



FCC RF Test Report

APPLICANT : TCL Communication Ltd.
EQUIPMENT : USB Connect 5G (NA)
BRAND NAME : Vodafone
MODEL NAME : IK512US
FCC ID : 2ACCJSCD002
STANDARD : 47 CFR Part 27 Subpart O (3700-3980MHz)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Jul. 15, 2024 ~ Jul 16, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



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People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	5
1.5 Modification of EUT	6
1.6 Maximum EIRP and Emission Designator	6
1.7 Testing Location	9
1.8 Test Software	9
1.9 Applicable Standards	10
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	11
2.1 Test Mode	11
2.2 Connection Diagram of Test System	12
2.3 Support Unit used in test configuration and system	12
2.4 Measurement Results Explanation Example	12
2.5 Frequency List of Low/Middle/High Channels	13
3 CONDUCTED TEST ITEMS	15
3.1 Measuring Instruments	15
3.2 Test Setup	15
3.3 Test Result of Conducted Test	15
3.4 Conducted Output Power and EIRP	16
3.5 Peak-to-Average Ratio	17
3.6 Occupied Bandwidth	18
3.7 Conducted Band Edge	19
3.8 Conducted Spurious Emission	20
3.9 Frequency Stability	21
4 RADIATED TEST ITEMS	22
4.1 Measuring Instruments	22
4.2 Test Setup	22
4.3 Test Result of Radiated Test	23
4.4 Radiated Spurious Emission	24
5 LIST OF MEASURING EQUIPMENT	25
6 MEASUREMENT UNCERTAINTY	26
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4506130	Rev. 01	Initial issue of report	Aug. 16, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 13.76 dB at 9222.00 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

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

1 General Description

1.1 Applicant

TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.2 Manufacturer

Vodafone Procurement Company S.à.r.l.

15 rue Edward Steichen, L-2540 Luxembourg, Grand-Duché de Luxembourg

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	USB Connect 5G (NA)
Brand Name	Vodafone
Model Name	IK512US
FCC ID	2ACCJSCD002
IMEI Code	Conducted : 352912230200263 Radiation : 352912230200271
HW Version	V3.0
SW Version	IK512US_ZZ_01.00_04
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	30kHz
Bandwidth	n77/n78: 10 / 15 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<Ant. 4> 5G NR n77: 3.25 dBi 5G NR n78: 2.90 dBi <Ant. 6> 5G NR n77: 2.18 dBi 5G NR n78: 2.18 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 4.
2. 5G NR n77/n78 support UL MIMO mode for Ant(4+6).
3. 5G NR n77/n78 UL_MIMO mode only supports CP-OFDM Modulation, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

4. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{\text{ANT}})$ according to KDB 662911 D01.
5. 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 all test items.
6. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the all test results of n77 provided in this report cover n78.
7. The device supports HPUE mode for 5G NR n77/n78.
8. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
9. 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	0.7244	8M59G7D	0.5768	8M59W7D
15	3705.52 ~ 3972.48	0.7568	13M6G7D	0.6152	13M6W7D
20	3710.01 ~ 3969.99	0.7413	18M3G7D	0.5998	18M3W7D
30	3715.02 ~ 3964.98	0.7534	27M8G7D	0.6166	27M9W7D
40	3720.00 ~ 3960.00	0.7586	37M8G7D	0.6180	37M8W7D
50	3725.01 ~ 3954.99	0.7295	47M5G7D	0.5794	47M5W7D
60	3730.02 ~ 3949.98	0.7211	57M8G7D	0.5861	57M8W7D
70	3735.00 ~ 3945.00	0.6855	67M6G7D	0.5546	67M6W7D
80	3740.01 ~ 3939.99	0.6902	77M6G7D	0.5598	77M5W7D
90	3745.02 ~ 3934.98	0.6934	87M6G7D	0.5662	87M6W7D
100	3750.00 ~ 3930.00	0.8017	97M4G7D	0.6427	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	0.6427	8M59G7D	0.5260	8M59W7D
15	3707.52 ~ 3792.48	0.6592	13M6G7D	0.5383	13M6W7D
20	3710.01 ~ 3789.99	0.6761	18M3G7D	0.5508	18M3W7D
30	3715.02 ~ 3784.98	0.6683	27M8G7D	0.5395	27M9W7D
40	3720.00 ~ 3780.00	0.6761	37M8G7D	0.5636	37M8W7D
50	3725.01 ~ 3774.99	0.6442	47M5G7D	0.5117	47M5W7D
60	3730.02 ~ 3769.98	0.6412	57M8G7D	0.5082	57M8W7D
70	3735.00 ~ 3765.00	0.6124	67M6G7D	0.4966	67M6W7D
80	3740.01 ~ 3759.99	0.6194	77M6G7D	0.4977	77M5W7D
90	3745.02 ~ 3754.98	0.6138	87M6G7D	0.5082	87M6W7D
100	3750.00 ~ 3750.00	0.6808	97M4G7D	0.5297	97M6W7D

5G NR n77 UL MIMO		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	0.5260	8M59G7D	0.4645	8M59W7D
15	3705.52 ~ 3972.48	0.5470	13M6G7D	0.4797	13M6W7D
20	3710.01 ~ 3969.99	0.5408	18M2G7D	0.4742	18M2W7D
30	3715.02 ~ 3964.98	0.5420	27M9G7D	0.4808	27M9W7D
40	3720.00 ~ 3960.00	0.5433	37M9G7D	0.4742	37M9W7D
50	3725.01 ~ 3954.99	0.4966	47M5G7D	0.4385	47M5W7D
60	3730.02 ~ 3949.98	0.5000	57M8G7D	0.4426	58M0W7D
70	3735.00 ~ 3945.00	0.4797	67M6G7D	0.4246	67M6W7D
80	3740.01 ~ 3939.99	0.4864	77M5G7D	0.4169	77M7W7D
90	3745.02 ~ 3934.98	0.4966	87M6G7D	0.4416	87M5W7D
100	3750.00 ~ 3930.00	0.5559	97M5G7D	0.4853	97M6W7D



5G NR n78 UL MIMO		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	0.4624	8M59G7D	0.4018	8M59W7D
15	3707.52 ~ 3792.48	0.4887	13M6G7D	0.4305	13M6W7D
20	3710.01 ~ 3789.99	0.4932	18M2G7D	0.4355	18M2W7D
30	3715.02 ~ 3784.98	0.4909	27M9G7D	0.4295	27M9W7D
40	3720.00 ~ 3780.00	0.5012	37M9G7D	0.4426	37M9W7D
50	3725.01 ~ 3774.99	0.4624	47M5G7D	0.4121	47M5W7D
60	3730.02 ~ 3769.98	0.4699	57M8G7D	0.4093	58M0W7D
70	3735.00 ~ 3765.00	0.4529	67M6G7D	0.3926	67M6W7D
80	3740.01 ~ 3759.99	0.4539	77M5G7D	0.3936	77M7W7D
90	3745.02 ~ 3754.98	0.4581	87M6G7D	0.3954	87M5W7D
100	3750.00 ~ 3750.00	0.5047	97M5G7D	0.3917	97M6W7D

Note:

1. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the all test results of n77 provided in this report cover n78.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	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.



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 (Y plane) were recorded in this report.

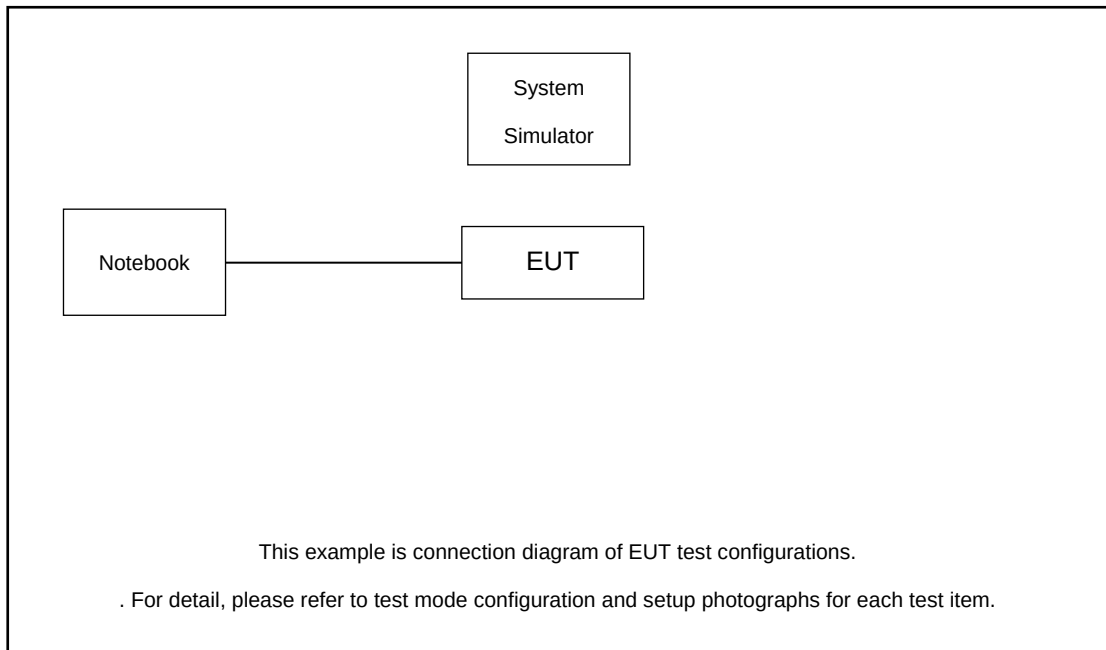
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

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

Note:

- 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.
- Frequency Stability: Normal Voltage = 5.0V ; Low Voltage =4.75V.; High Voltage =5.25V.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Notebook	Thinkpad	Thinkpad E14	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 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000		
	Frequency	3750		
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

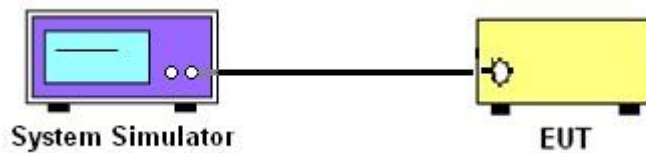
3 Conducted Test Items

3.1 Measuring Instruments

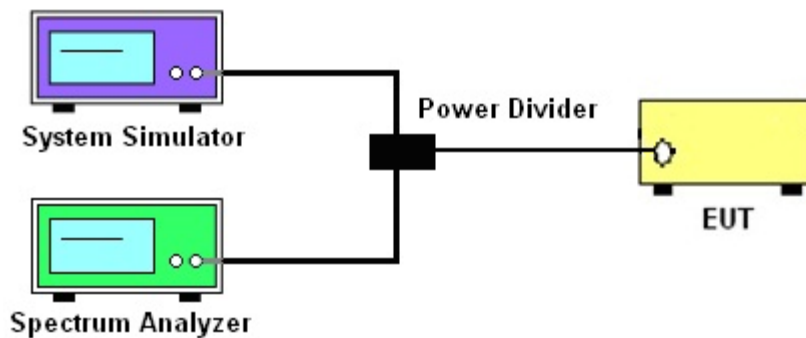
See list of measuring instruments of this test report.

3.2 Test Setup

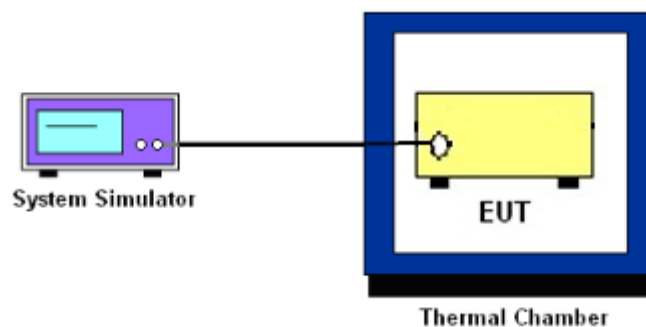
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

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

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

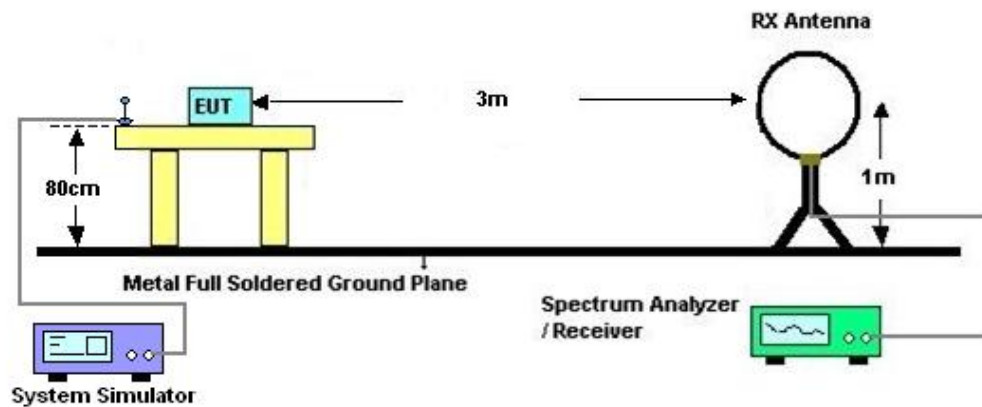
4 Radiated Test Items

4.1 Measuring Instruments

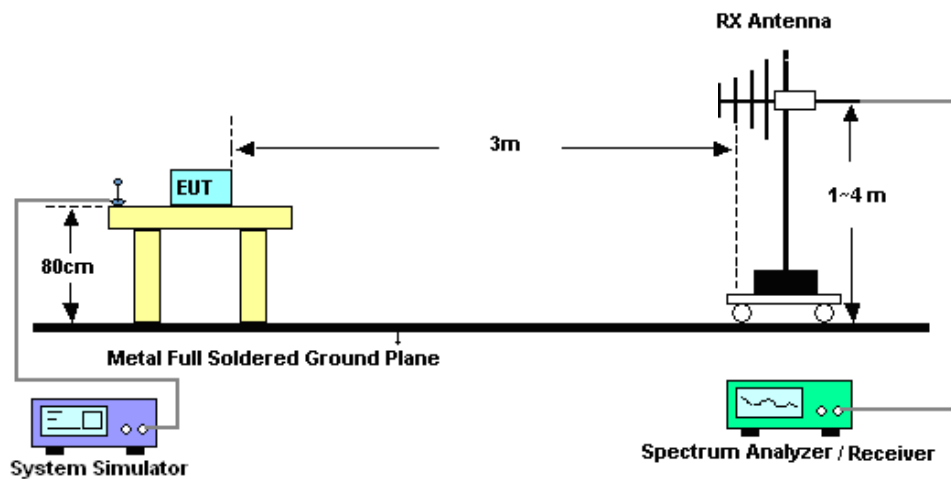
See list of measuring instruments of this test report.

4.2 Test Setup

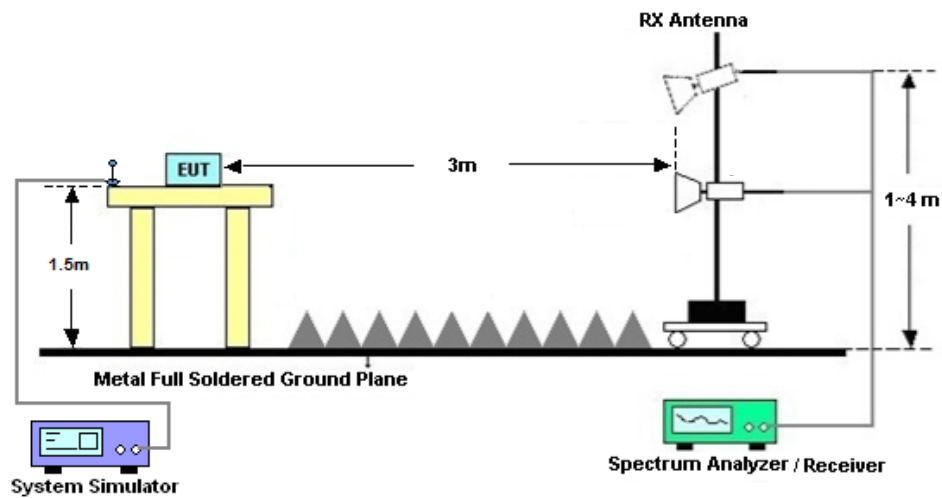
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

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

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jul. 15, 2024~ Jul. 16, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Jul. 15, 2024~ Jul. 16, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Jul. 15, 2024~ Jul. 16, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhonggroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Jul. 15, 2024~ Jul. 16, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Jul. 15, 2024	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 15, 2024	Jul. 27, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Jul. 15, 2024	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jul. 15, 2024	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jul. 15, 2024	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Jul. 15, 2024	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2023	Jul. 15, 2024	Oct. 17, 2024	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2023	Jul. 15, 2024	Oct. 17, 2024	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2023	Jul. 15, 2024	Oct. 17, 2024	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 15, 2024	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 15, 2024	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 = 2Uc(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 = 2Uc(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 = 2Uc(y))	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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



FR1 N77(ANT4)_SCS30kHz

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=3.25dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.17	28.42	0.6950
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.26	27.51	0.5636
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	24.97	28.22	0.6637
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24	27.25	0.5309
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	25.35	28.6	0.7244
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.36	27.61	0.5768
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.44	28.69	0.7396
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	24.55	27.8	0.6026
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	25.04	28.29	0.6745
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.14	27.39	0.5483
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	25.54	28.79	0.7568
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	24.64	27.89	0.6152
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.45	28.7	0.7413
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.47	27.72	0.5916
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.04	28.29	0.6745
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.1	27.35	0.5433
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.45	28.7	0.7413
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.53	27.78	0.5998
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.43	28.68	0.7379
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.44	27.69	0.5875
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	25.07	28.32	0.6792
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.11	27.36	0.5445
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	25.52	28.77	0.7534
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	24.65	27.9	0.6166
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.55	28.8	0.7586
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.66	27.91	0.6180
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.17	28.42	0.6950
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.29	27.54	0.5675
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	25.49	28.74	0.7482
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.57	27.82	0.6053
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.27	28.52	0.7112
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.38	27.63	0.5794
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	24.82	28.07	0.6412
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.89	27.14	0.5176
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.38	28.63	0.7295
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.38	27.63	0.5794
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.31	28.56	0.7178
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.43	27.68	0.5861



77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	24.8	28.05	0.6383
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.87	27.12	0.5152
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.33	28.58	0.7211
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.43	27.68	0.5861
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.09	28.34	0.6823
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.13	27.38	0.5470
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	24.7	27.95	0.6237
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.74	26.99	0.5000
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.11	28.36	0.6855
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	24.19	27.44	0.5546
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.1	28.35	0.6839
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.23	27.48	0.5598
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	24.69	27.94	0.6223
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.71	26.96	0.4966
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.14	28.39	0.6902
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	24.23	27.48	0.5598
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.07	28.32	0.6792
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.2	27.45	0.5559
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	24.66	27.91	0.6180
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.77	27.02	0.5035
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	25.16	28.41	0.6934
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	24.28	27.53	0.5662
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	24.93	28.18	0.6577
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.15	28.4	0.6918
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	24.66	27.91	0.6180
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	24.92	28.17	0.6561
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.13	28.38	0.6887
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	24.63	27.88	0.6138
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	23.99	27.24	0.5297
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.23	27.48	0.5598
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	23.73	26.98	0.4989
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	22.44	25.69	0.3707
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.69	25.94	0.3926
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.13	25.38	0.3451
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	20.51	23.76	0.2377
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.54	23.79	0.2393
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.16	23.41	0.2193
77	30	100	650000	3750	CP-OFDM QPSK	137@68	23.44	26.69	0.4667
77	30	100	650000	3750	CP-OFDM QPSK	1@1	23.61	26.86	0.4853
77	30	100	650000	3750	CP-OFDM QPSK	1@271	23.09	26.34	0.4305
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	24.84	28.09	0.6442
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.7	27.95	0.6237
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	25.16	28.41	0.6934
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	24.75	28	0.6310
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	24.72	27.97	0.6266



77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	25.15	28.4	0.6918
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	23.78	27.03	0.5047
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.79	27.04	0.5058
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	24.24	27.49	0.5610
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	22.27	25.52	0.3565
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.26	25.51	0.3556
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	22.71	25.96	0.3945
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	20.31	23.56	0.2270
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.13	23.38	0.2178
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	20.61	23.86	0.2432
77	30	100	656000	3840	CP-OFDM QPSK	137@68	23.26	26.51	0.4477
77	30	100	656000	3840	CP-OFDM QPSK	1@1	23.18	26.43	0.4395
77	30	100	656000	3840	CP-OFDM QPSK	1@271	23.63	26.88	0.4875
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	25.33	28.58	0.7211
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	25.22	28.47	0.7031
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	25.79	29.04	0.8017
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	25.34	28.59	0.7228
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	25.18	28.43	0.6966
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	25.78	29.03	0.7998
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	24.33	27.58	0.5728
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	24.31	27.56	0.5702
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	24.83	28.08	0.6427
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	22.88	26.13	0.4102
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	22.66	25.91	0.3899
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	23.26	26.51	0.4477
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	20.9	24.15	0.2600
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	20.64	23.89	0.2449
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	21.15	24.4	0.2754
77	30	100	662000	3930	CP-OFDM QPSK	137@68	23.84	27.09	0.5117
77	30	100	662000	3930	CP-OFDM QPSK	1@1	23.72	26.97	0.4977
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.18	27.43	0.5534



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0041	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0056	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0067	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0054	PASS	-30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0051	PASS	-20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0067	PASS	-10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0029	PASS	0℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0047	PASS	10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0041	PASS	20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0032	PASS	30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0056	PASS	40℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0059	PASS	50℃



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	4.43	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	5.76	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CHN77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH

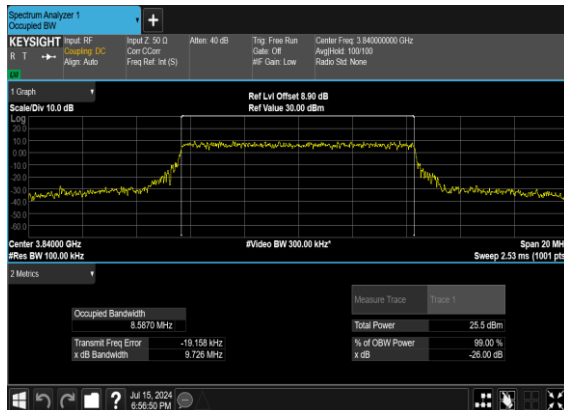
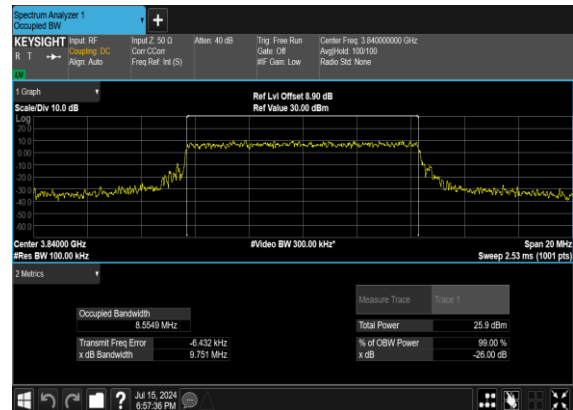
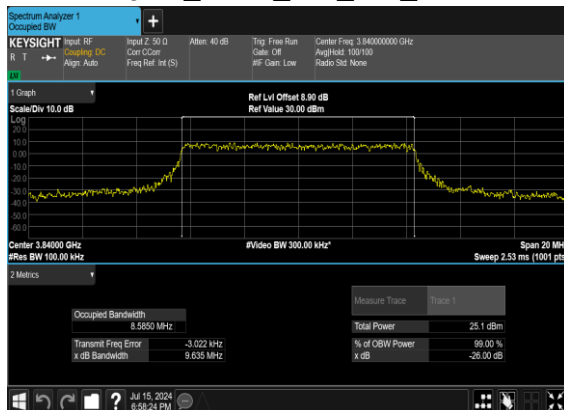
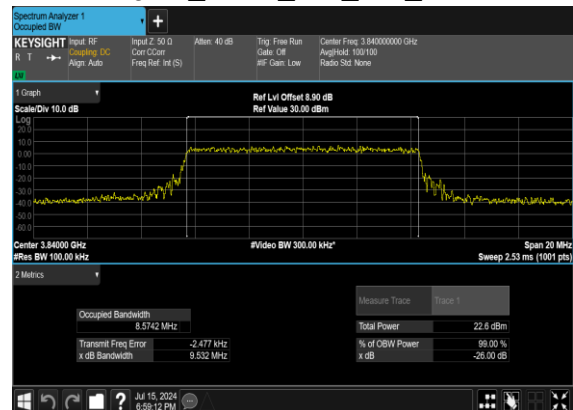
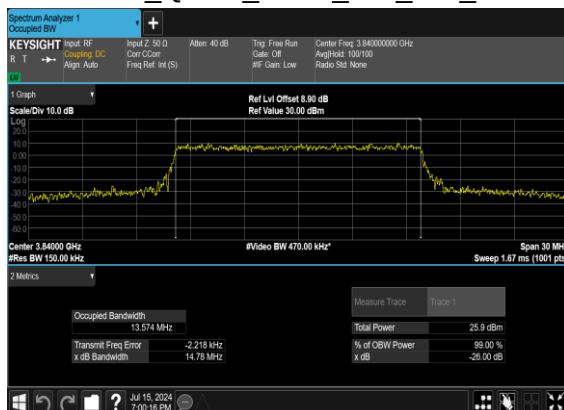
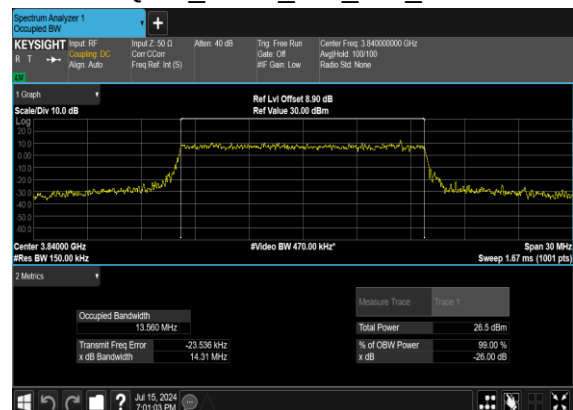


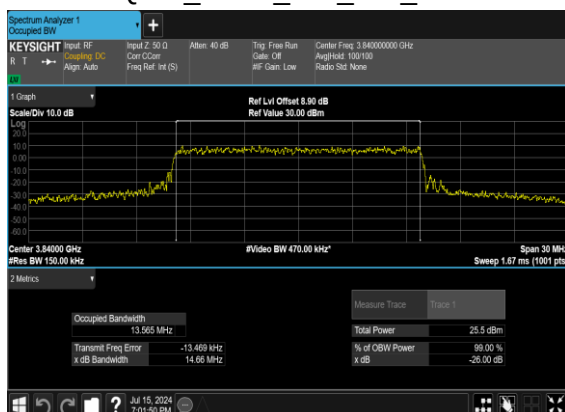
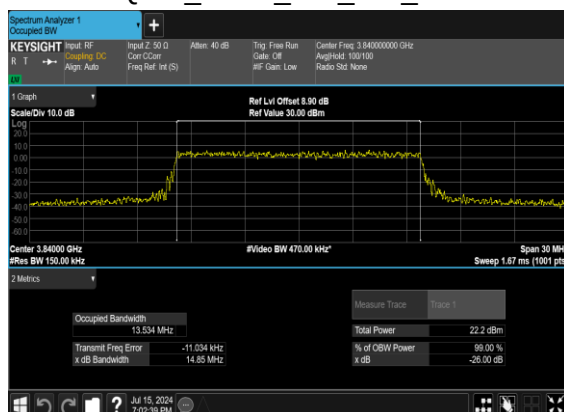
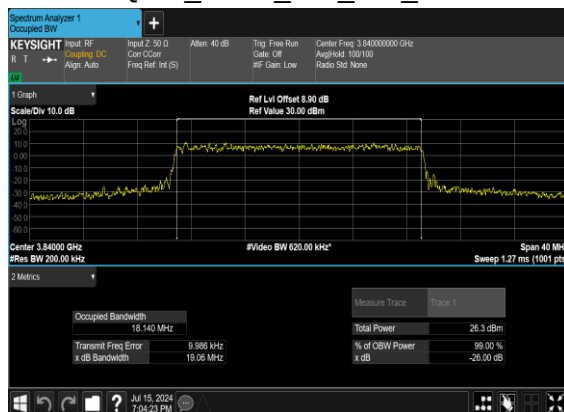
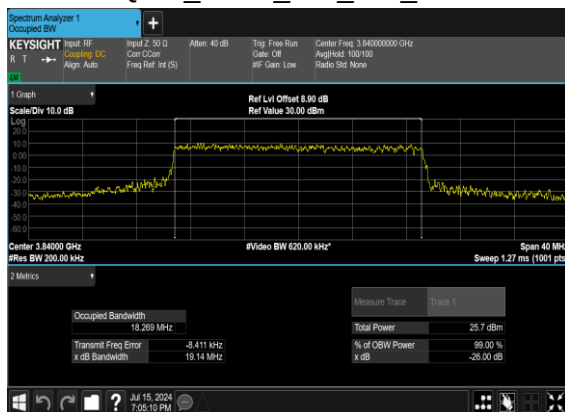
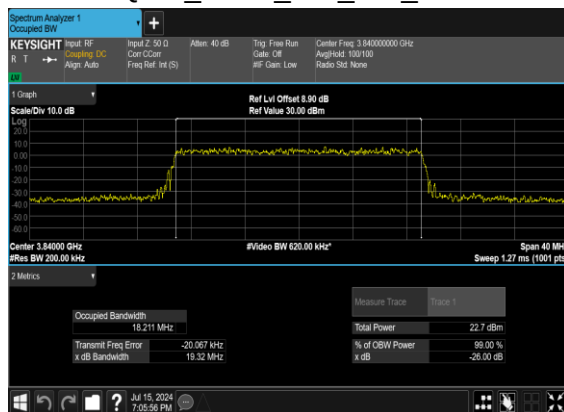
Occupied Bandwidth

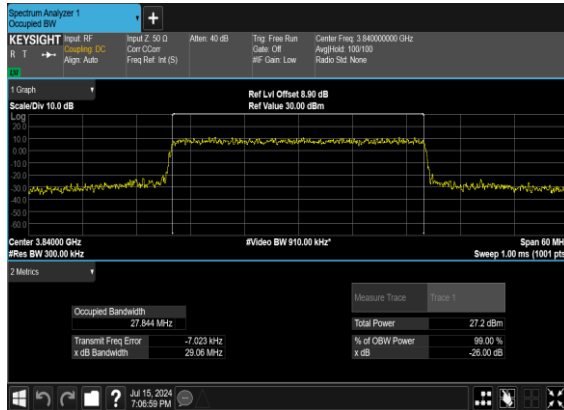
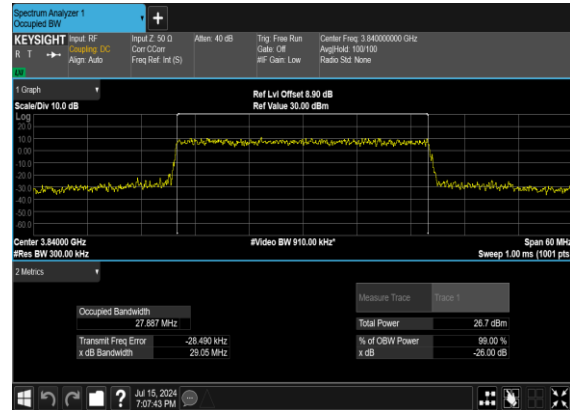
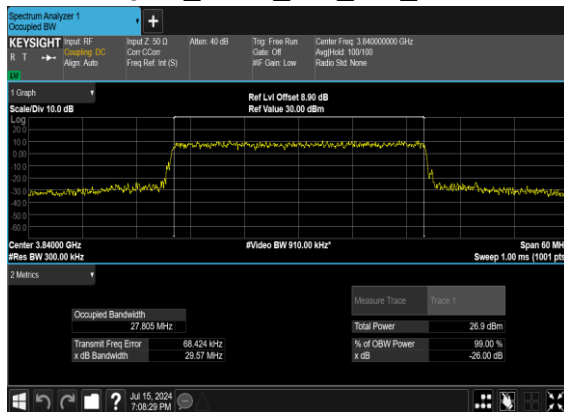
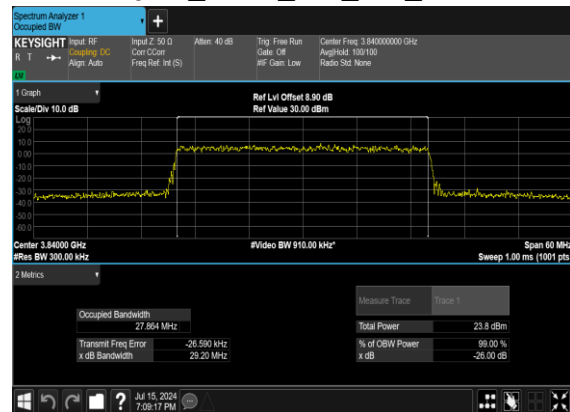
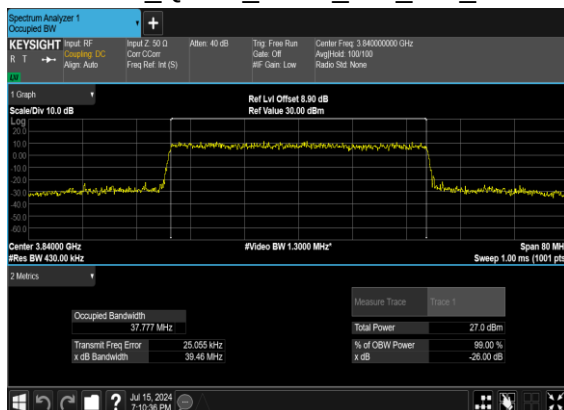
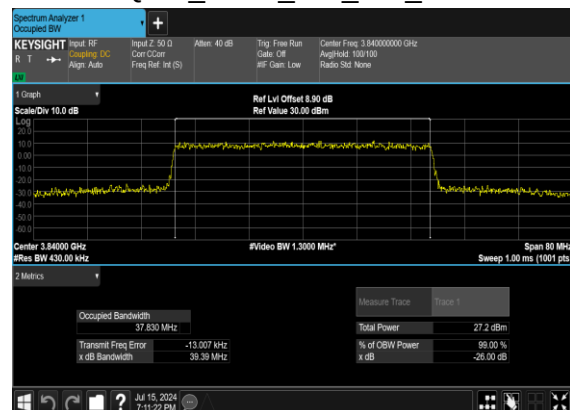
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.587	9.726
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5549	9.751
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.585	9.635
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5742	9.532
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.574	14.78
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.56	14.31
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.565	14.66
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.534	14.85
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.259	19.55
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.14	19.06
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.269	19.14
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.211	19.32
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.844	29.06
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.887	29.05
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.805	29.57
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.864	29.2
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.777	39.46
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.83	39.39
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.787	39.48
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.803	39.35
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.46	49.29
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.532	49.35
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.491	49.04
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.393	49.43
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.792	59.79
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.781	59.86

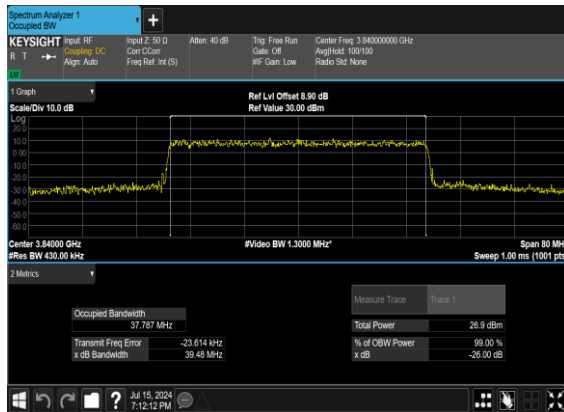
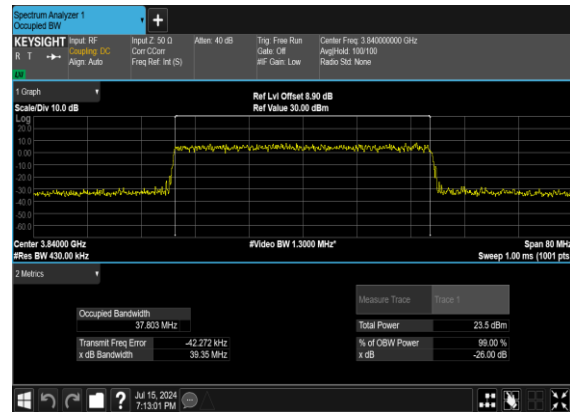
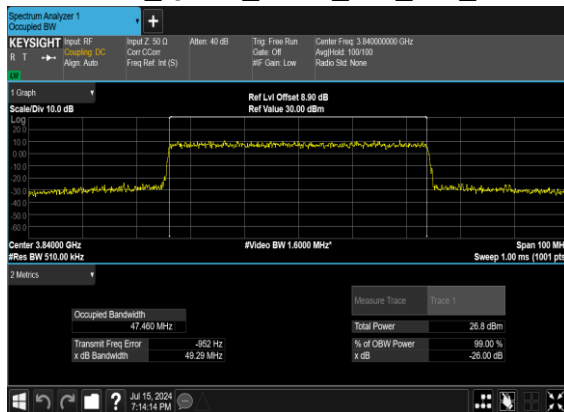
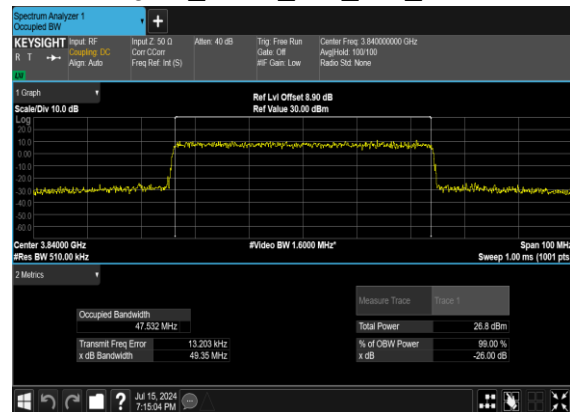
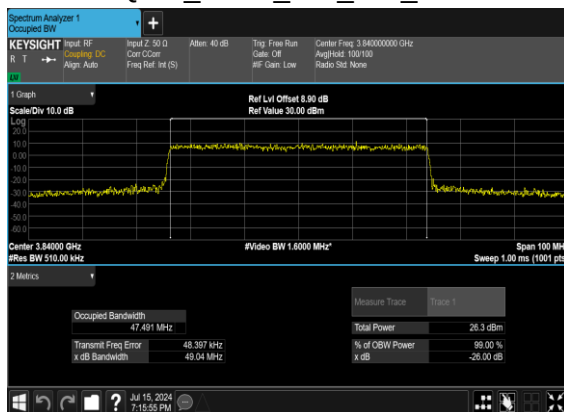
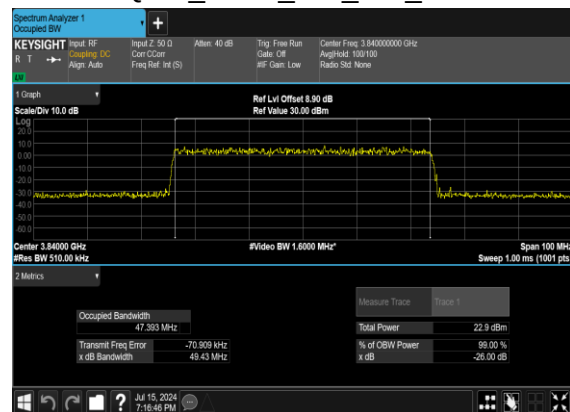


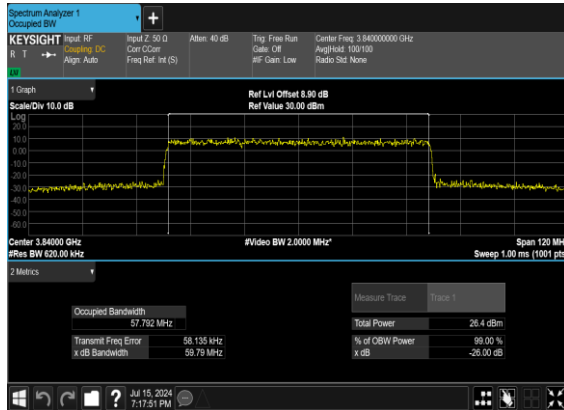
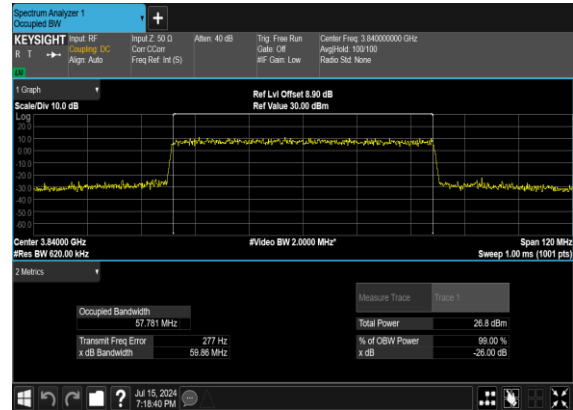
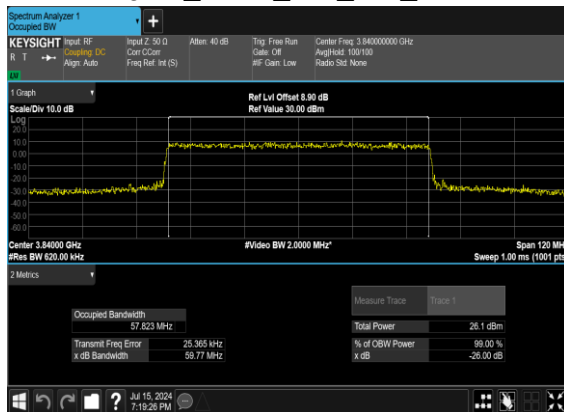
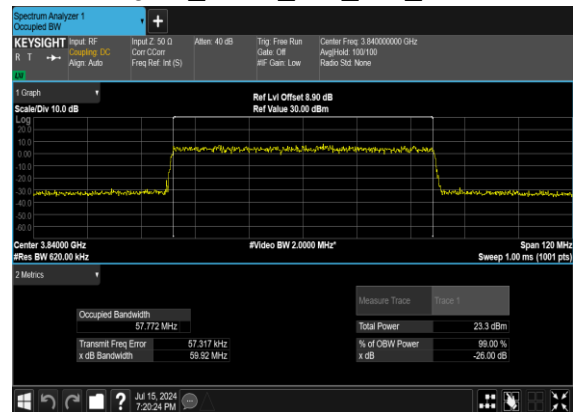
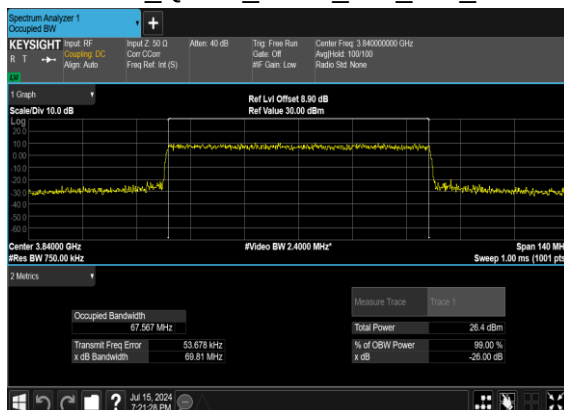
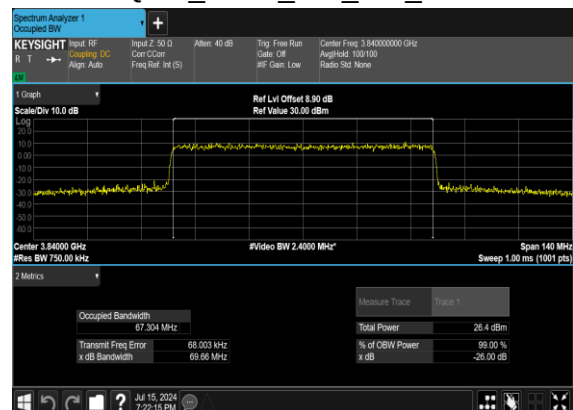
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77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.772	59.92
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.567	69.81
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.304	69.66
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.427	69.71
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.577	69.86
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.569	80.19
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.355	80.23
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.374	80.01
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.509	79.82
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.554	90.24
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.434	90.17
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.428	90.29
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.607	90.16
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.438	100.5
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.588	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.373	100.5
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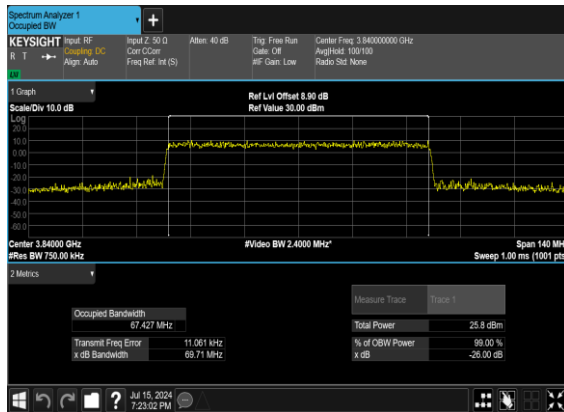
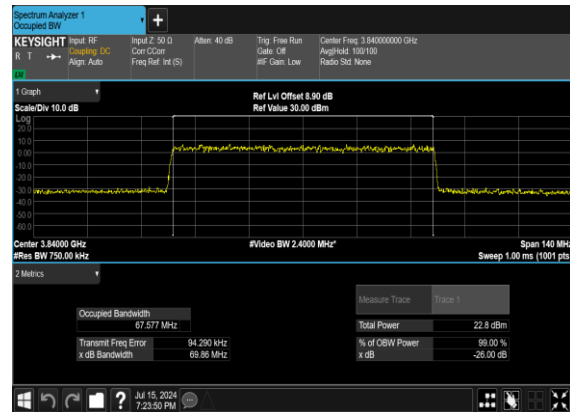
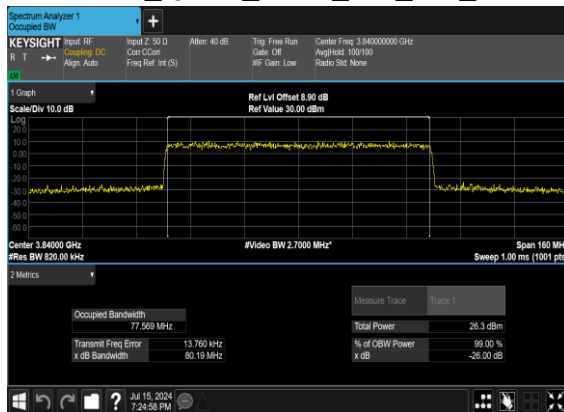
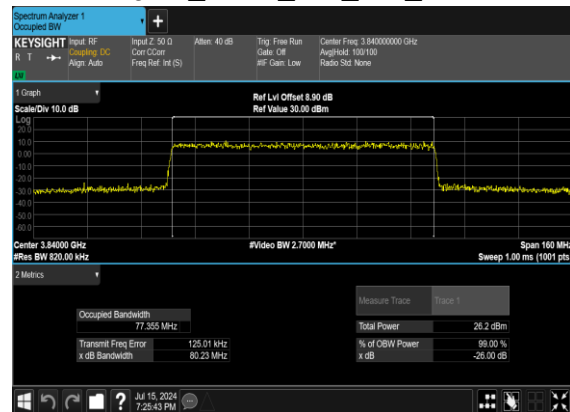
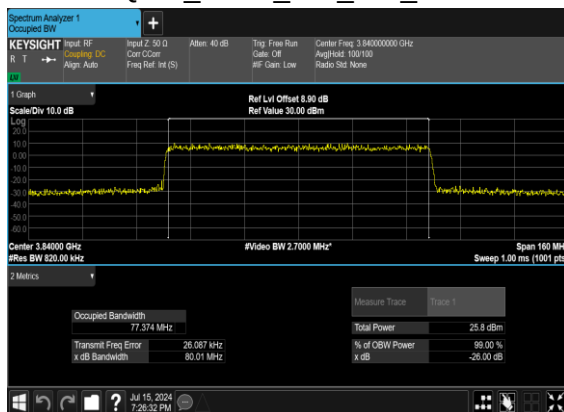
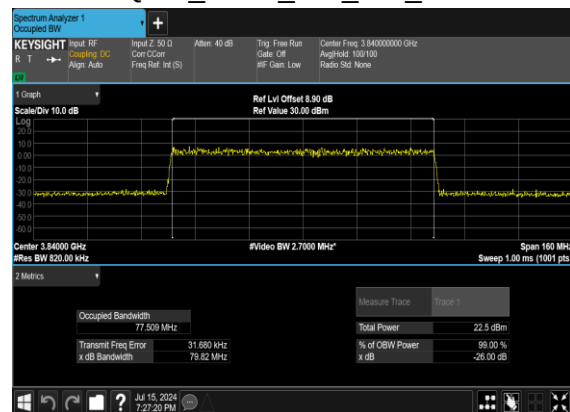
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QAM_Outer_Full_Mid_CHN77(10M)_CP-OFDM_256
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QAM_Outer_Full_Mid_CH

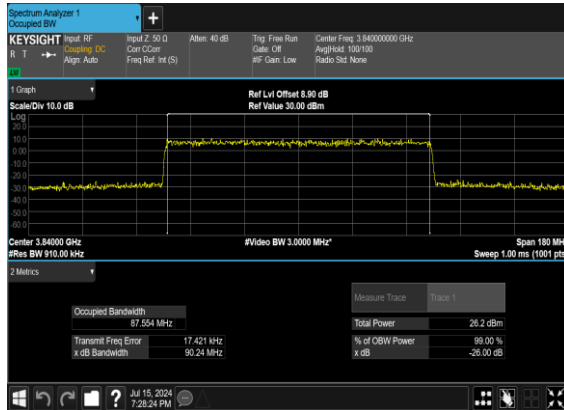
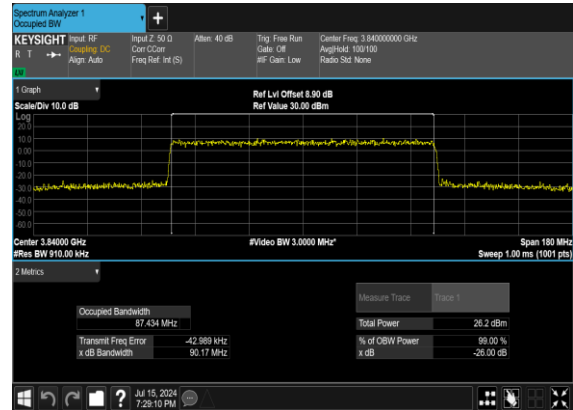
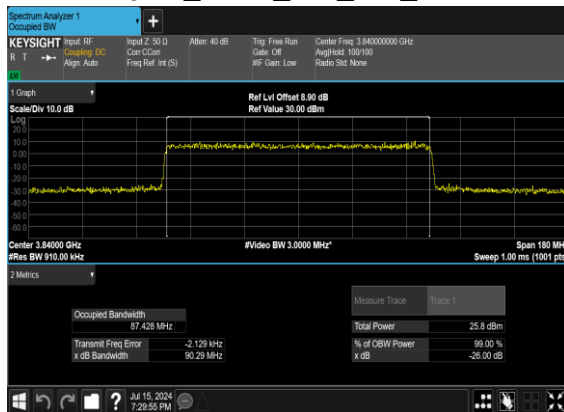
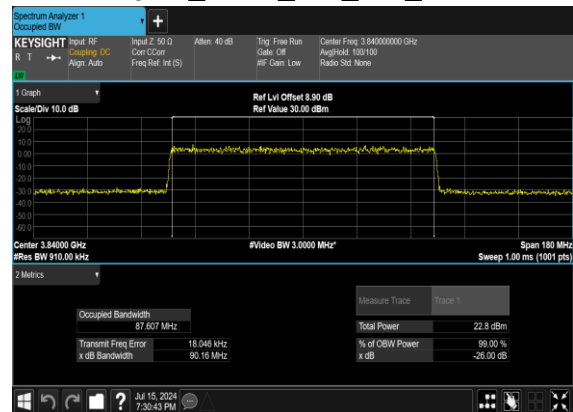
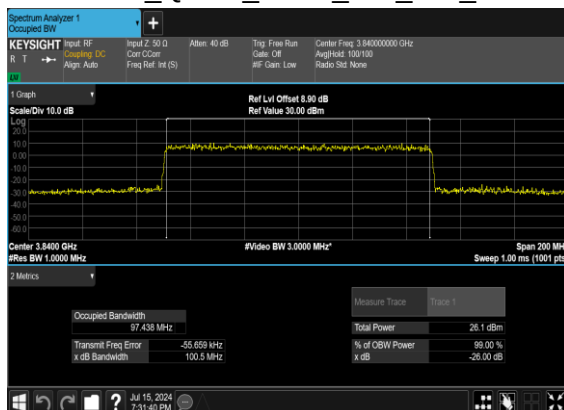
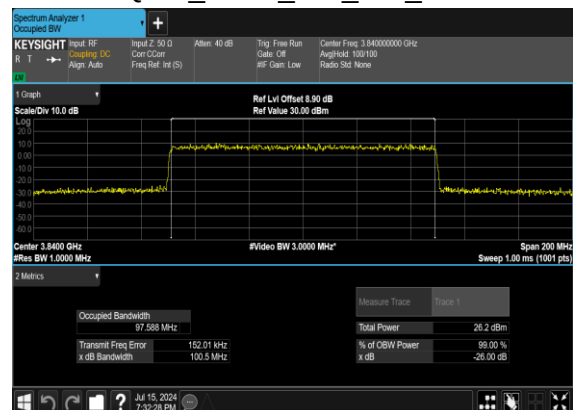
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QAM_Outer_Full_Mid_CHN77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

N77(30M)_CP-
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QAM_Outer_Full_Mid_CHN77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CHN77(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH

N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CHN77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CHN77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CHN77(50M)_CP-OFDM_16
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QAM_Outer_Full_Mid_CH

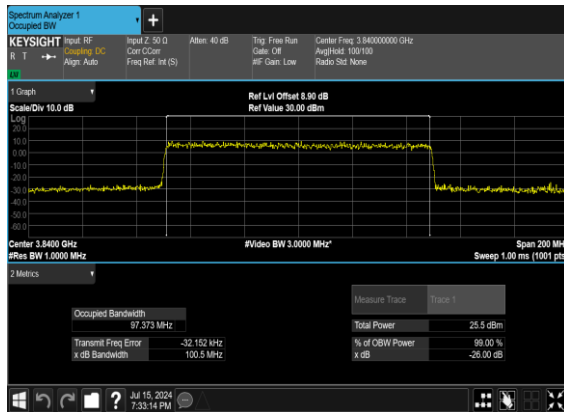
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QAM_Outer_Full_Mid_CH

N77(70M)_CP-OFDM_64
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QAM_Outer_Full_Mid_CH

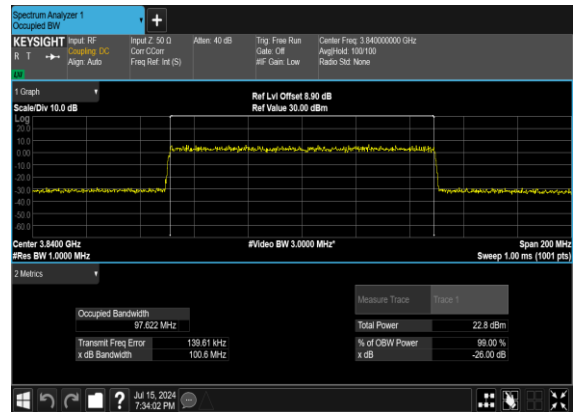
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



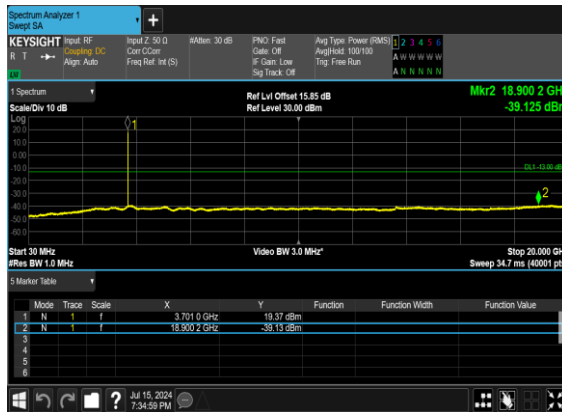
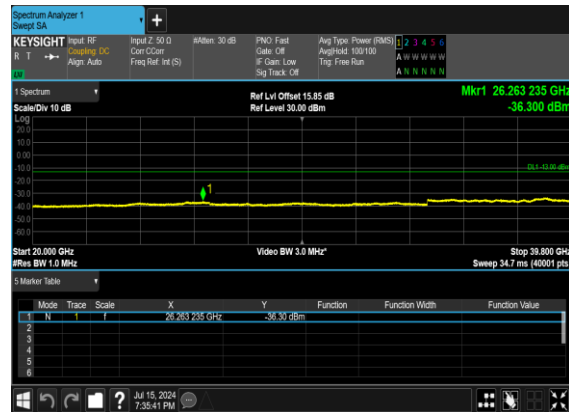
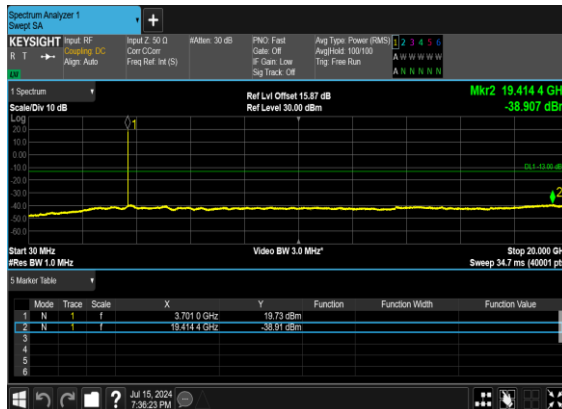
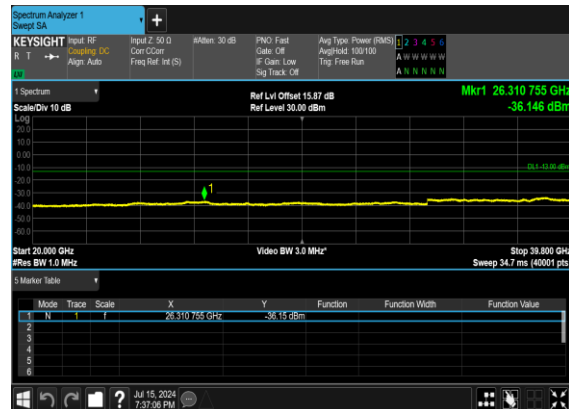
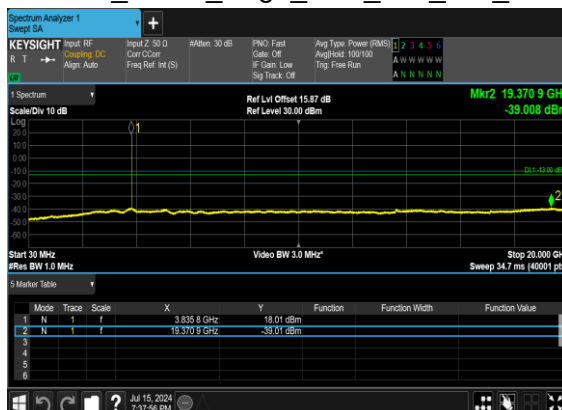


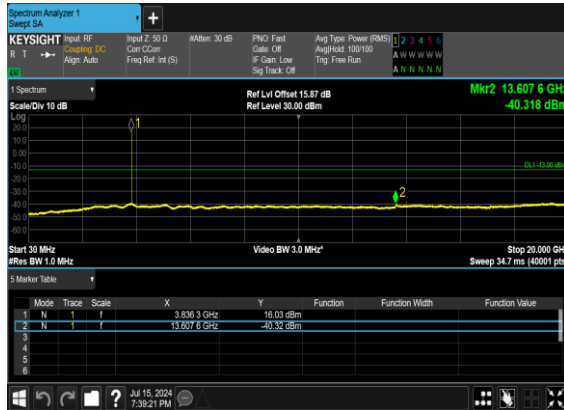
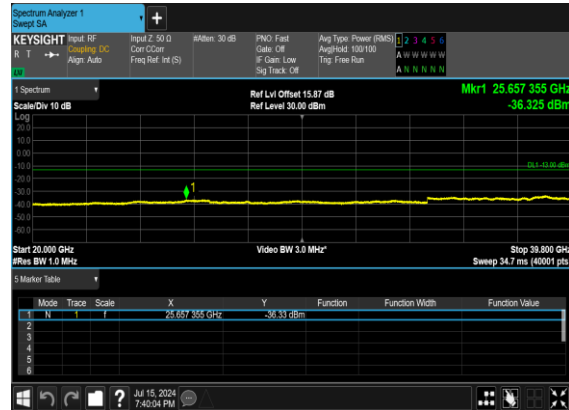
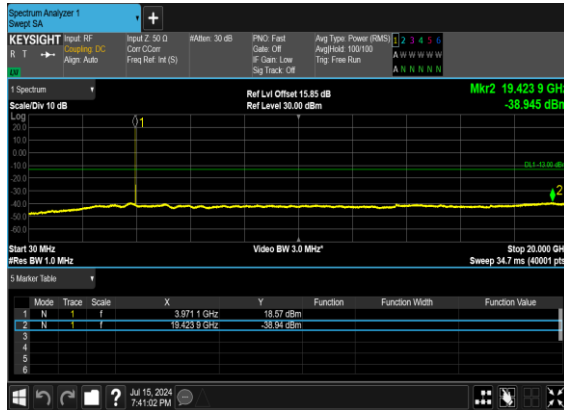
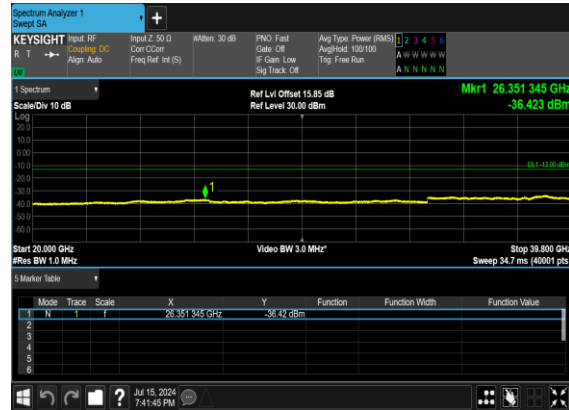
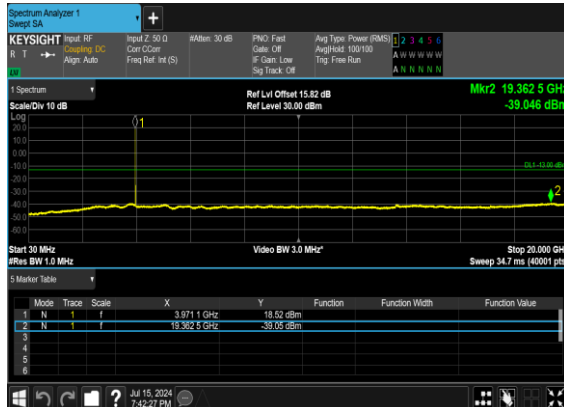
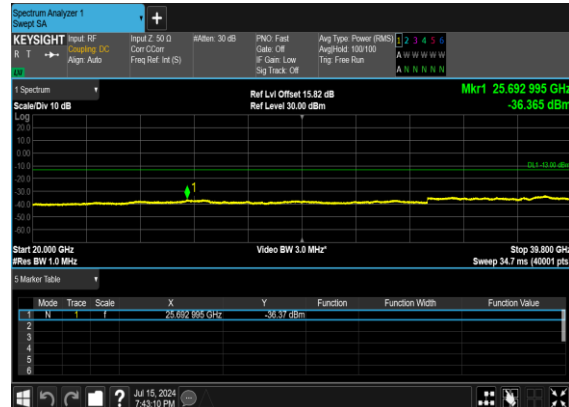
Conducted Spurious Emissions

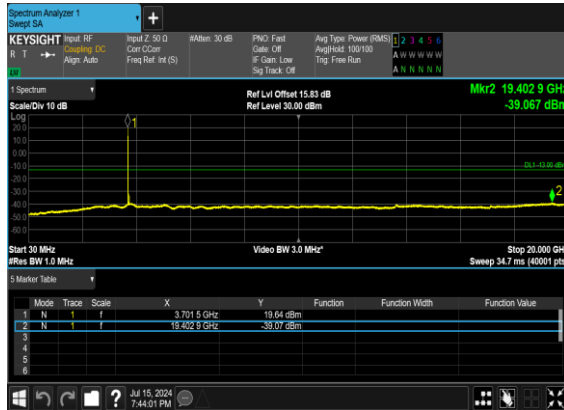
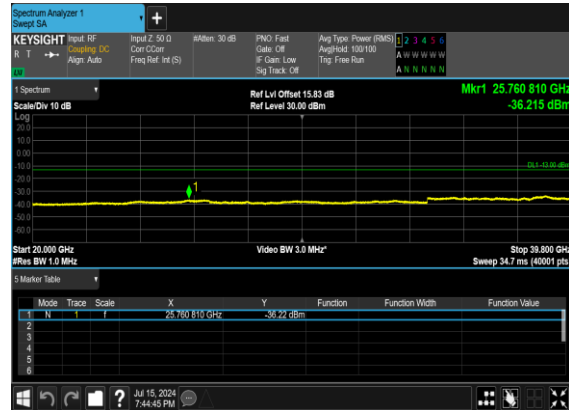
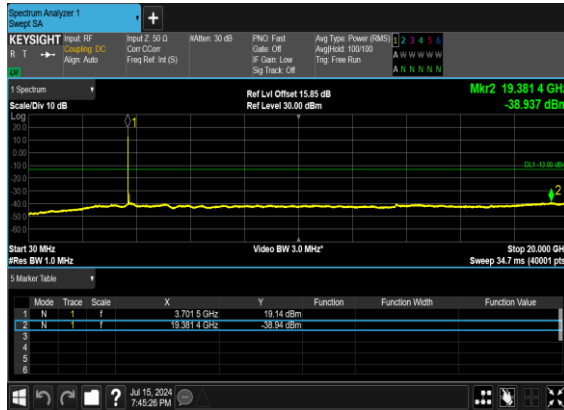
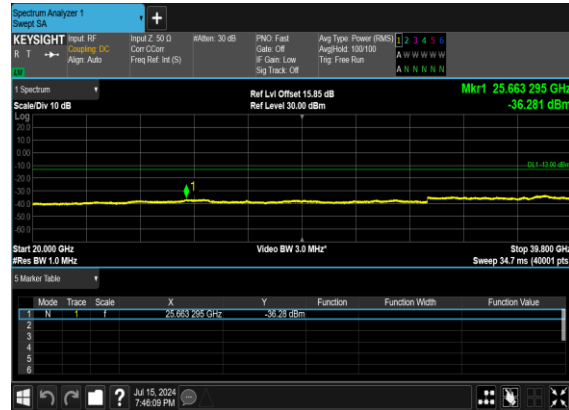
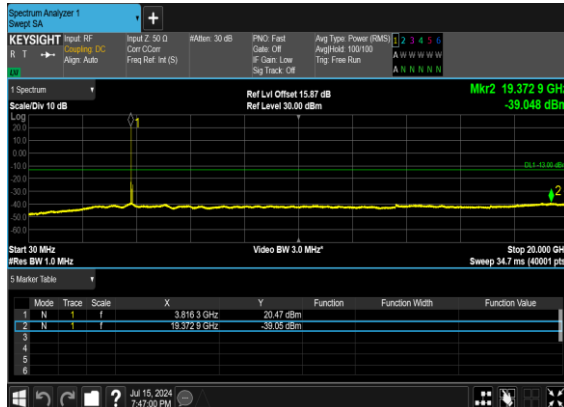
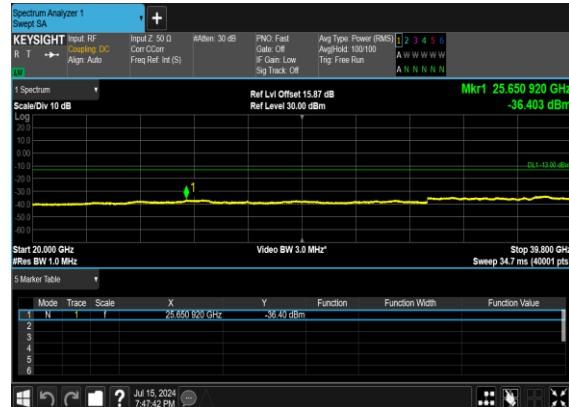
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
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

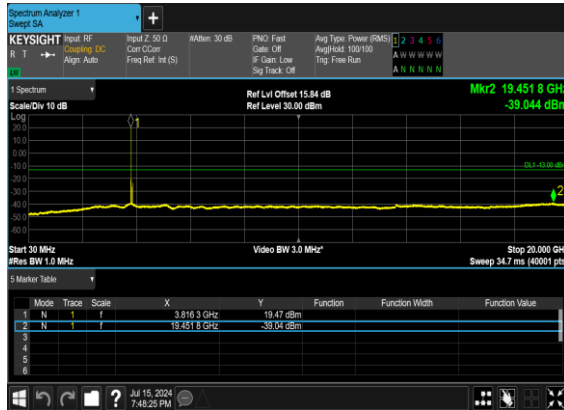
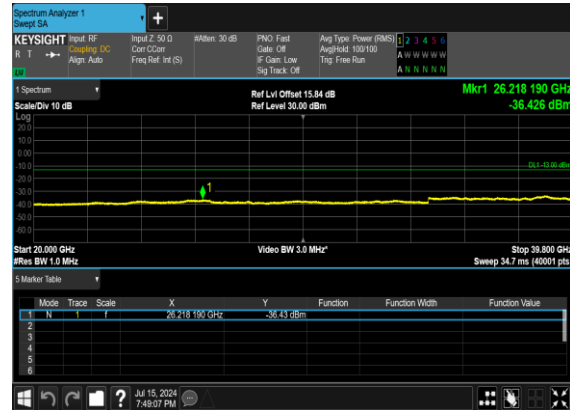
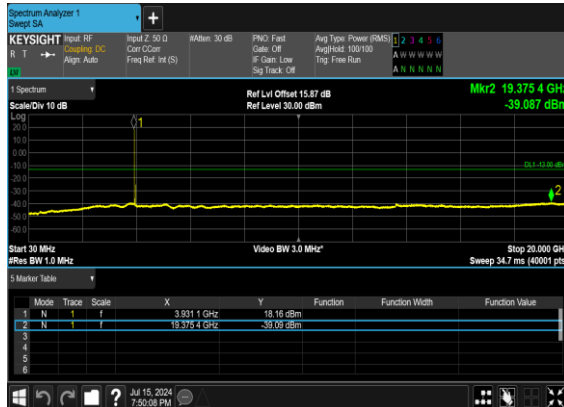
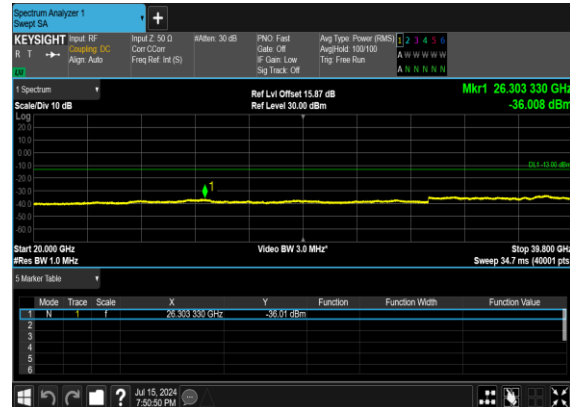
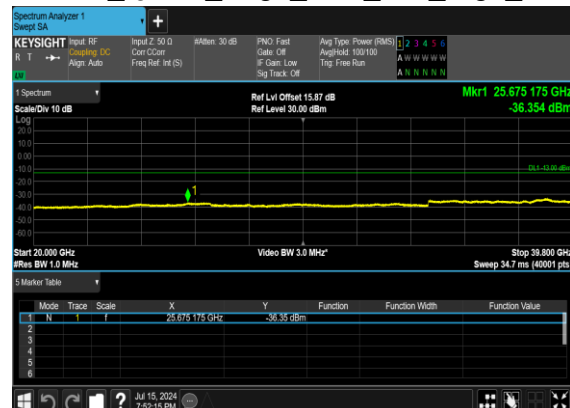


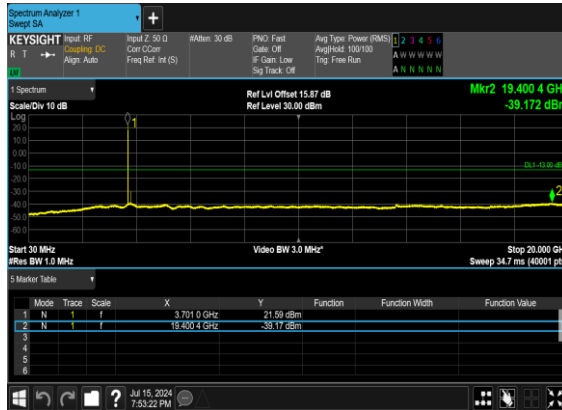
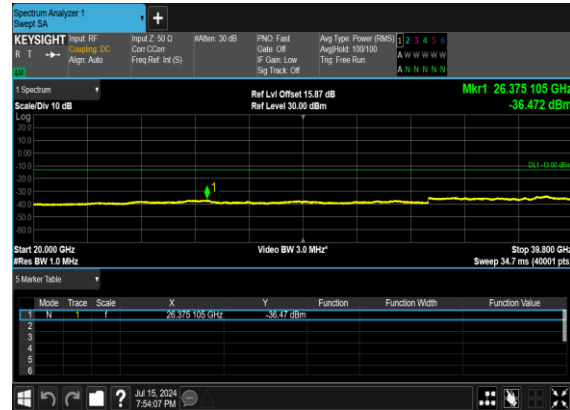
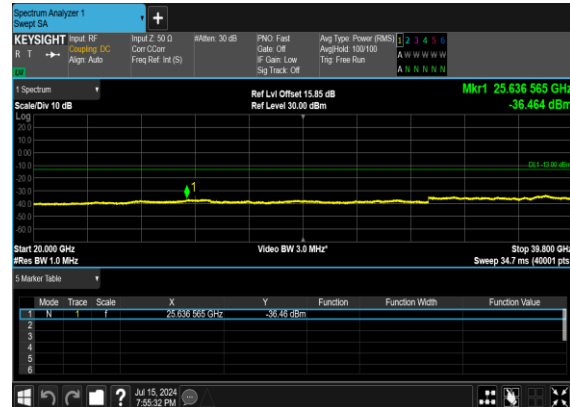
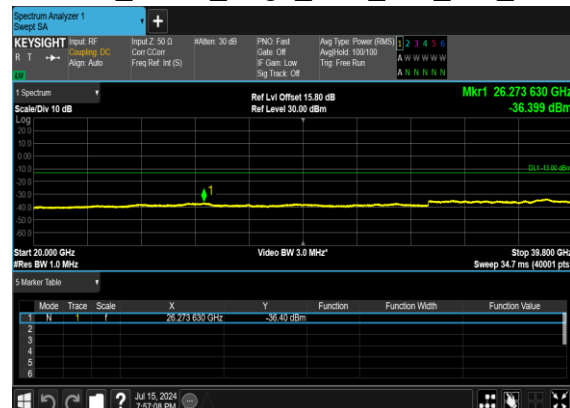
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	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

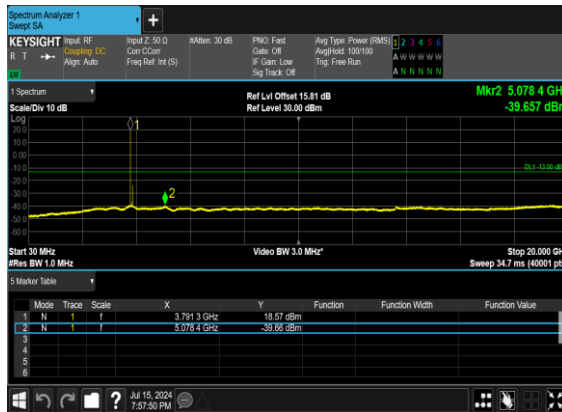
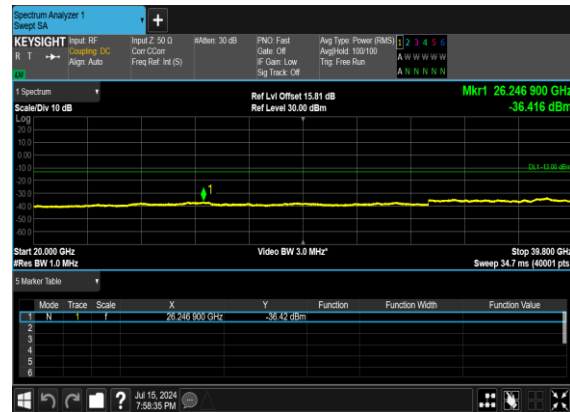
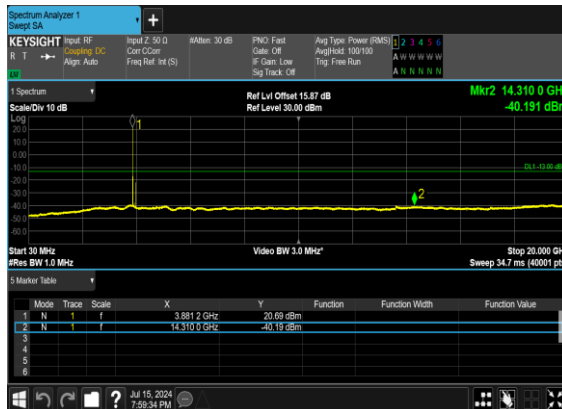
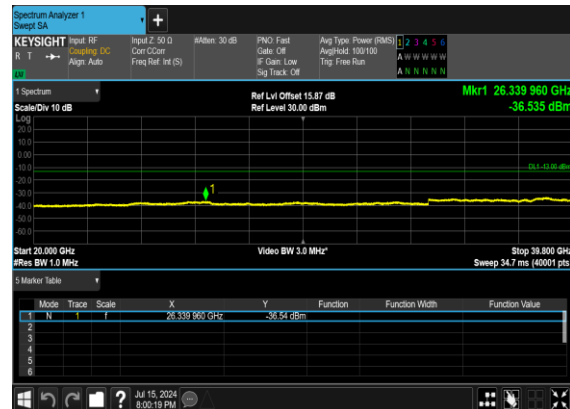
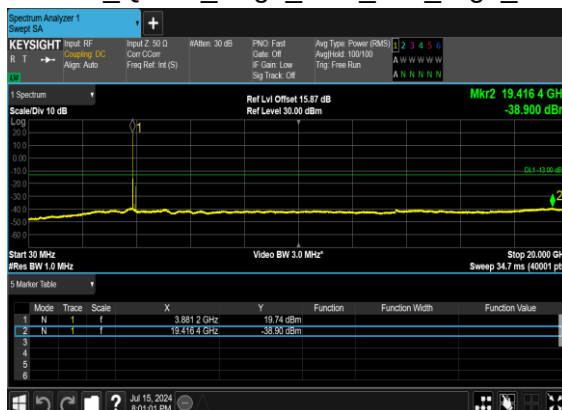
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

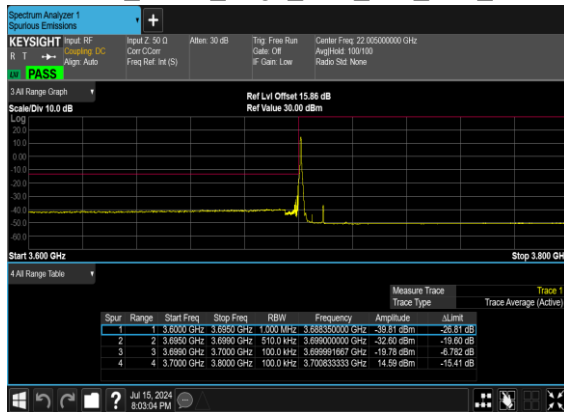
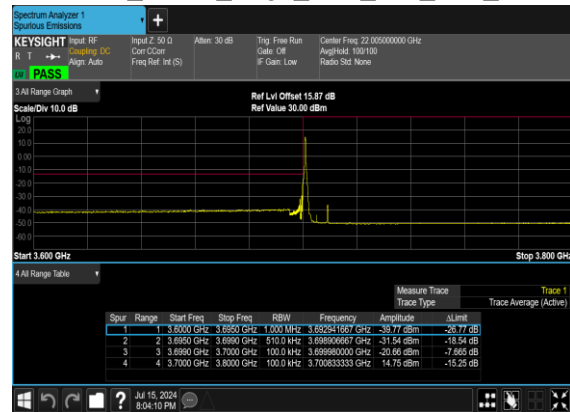
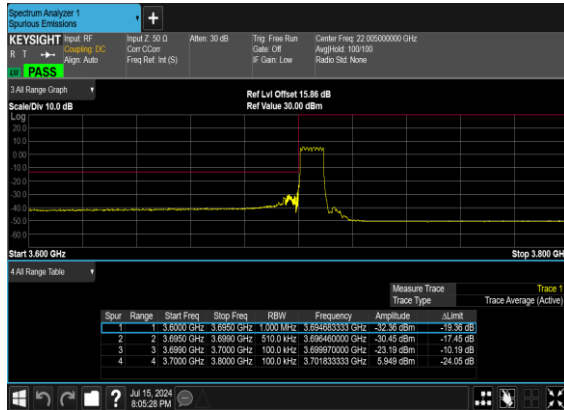
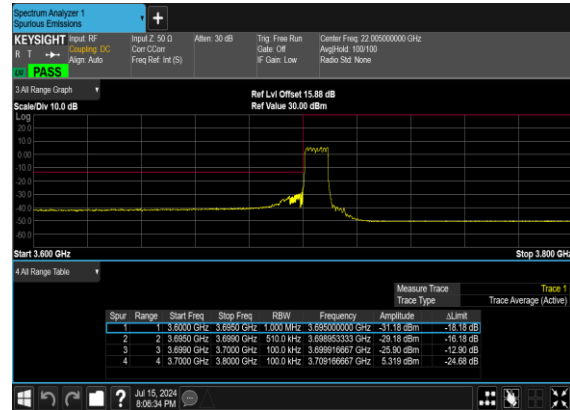
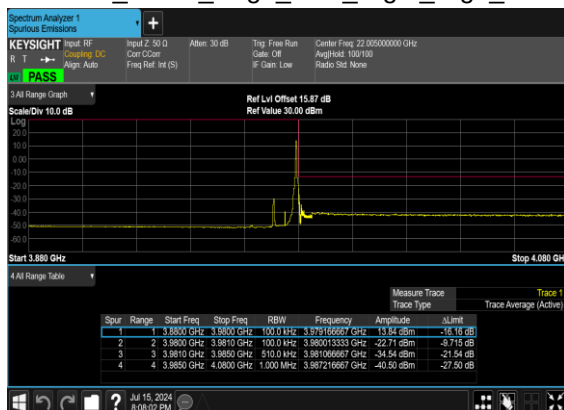
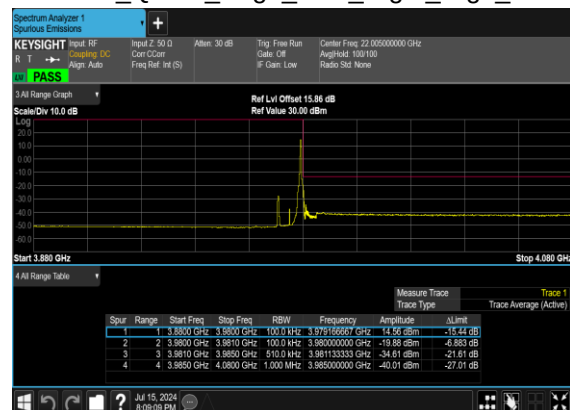
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

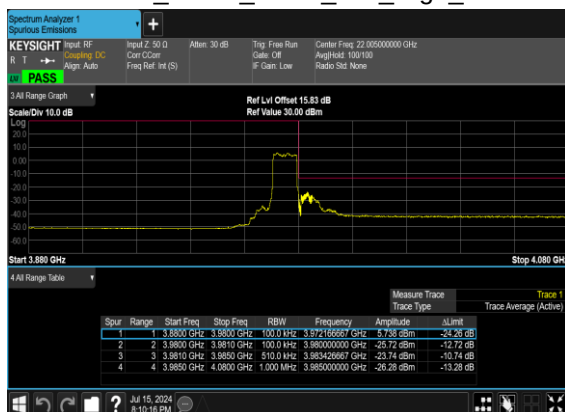
**Conducted Band Edge**

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

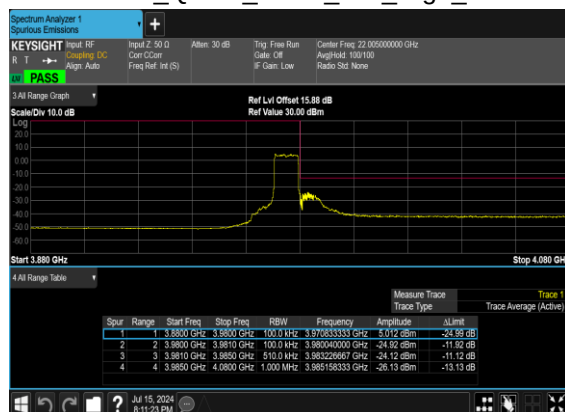
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CHN77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CHN77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CHN77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



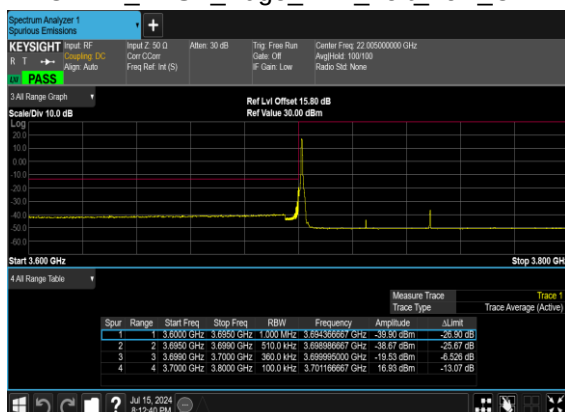
N77(10M)_DFT-s-OFDM BPSK Outer Full High CH



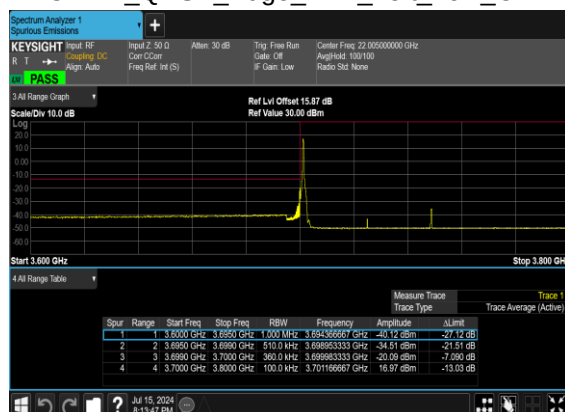
N77(10M)_DFT-s-OFDM QPSK Outer Full High CH



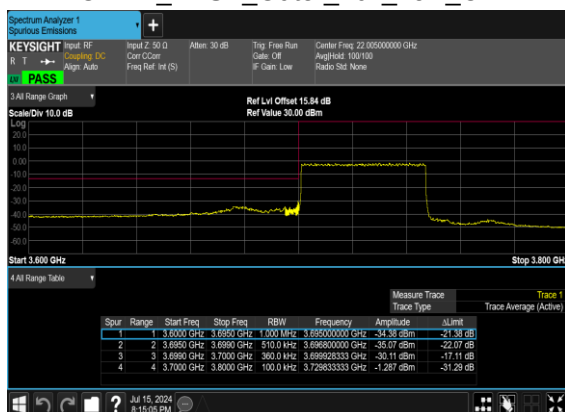
N77(50M)_DFT-s-
OFDM BPSK Edge 1RB Left Low CH



N77(50M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



N77(50M)_DFT-s-OFDM BPSK Outer Full Low CH



N77(50M)_DFT-s-OFDM QPSK Outer Full Low CH

