FCC RF Test Report

APPLICANT	:	Sun Cupid Technology (HK) Ltd.
EQUIPMENT	:	5G Smartphone
BRAND NAME	:	NUU
MODEL NAME	:	S6707X
MARKETING NAME	:	NUU X10 5G, X10 5G
FCC ID	:	2ADINS6707X
STANDARD	:	47 CFR Part 27 Subpart Q
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Aug. 15, 2024 ~ Aug. 29, 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

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**
SUMMARY OF TEST RESULT **4**
1 GENERAL DESCRIPTION **5**
1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 5
1.5 Modification of EUT 6
1.6 Maximum EIRP Power and Emission Designator 6
1.7 Testing Site 7
1.8 Test Software 8
1.9 Applied Standards 8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **9**
2.1 Test Mode 9
2.2 Connection Diagram of Test System 10
2.3 Support Unit used in test configuration and system 10
2.4 Measurement Results Explanation Example 10
2.5 Frequency List of Low/Middle/High Channels 11
3 CONDUCTED TEST ITEMS **12**
3.1 Measuring Instruments 12
3.2 Test Setup 12
3.3 Test Result of Conducted Test 12
3.4 Conducted Output Power Measurement 13
3.5 Peak-to-Average Ratio 14
3.6 EIRP 15
3.7 Occupied Bandwidth 16
3.8 Conducted Band Edge Measurement 17
3.9 Conducted Spurious Emission Measurement 18
3.10 Frequency Stability Measurement 19
4 RADIATED TEST ITEMS **20**
4.1 Measuring Instruments 20
4.2 Test Setup 20
4.3 Test Result of Radiated Test 21
4.4 Radiated Spurious Emission Measurement 22
5 LIST OF MEASURING EQUIPMENT **23**
6 MEASUREMENT UNCERTAINTY **24**
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG471902O	Rev. 01	Initial issue of report	Sep. 14, 2024

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 12.57 dB at 6916.50 MHz

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

Sun Cupid Technology (HK) Ltd.
16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.

1.2 Manufacturer

Suncupid (ShenZhen) Electronic Ltd.
Baolong Industrial City, Longgang District, ShenZhen Hi-Tech Road, Building 1, A7, China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Smartphone
Brand Name	NUU
Model Name	S6707X
Marketing Name	NUU X10 5G, X10 5G
FCC ID	2ADINS6707X
IMEI Code	Conducted : 350915160002932/350915160002775 Radiation : 350915160001397
HW Version	V01
SW Version	S6707X-AM-U-MV12804-01.f
EUT Stage	Engineering samples

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	n77/n78: 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	**<Ant. 4>** 5G NR n77: -2 dBi 5G NR n78: -2 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 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
3. 5G NR n78 supports SA mode only.
4. The device supports HPUE mode for 5G NR n77/n78.

5. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
6. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n77 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2831	8M57G7D	0.2270	8M59W7D
15	3457.50 ~ 3542.49	0.2812	13M6G7D	0.2265	13M6W7D
20	3460.02 ~ 3540.00	0.2818	18M2G7D	0.2270	18M2W7D
25	3462.51 ~ 3537.48	0.2812	23M2G7D	0.2265	23M2W7D
30	3465.00 ~ 3534.99	0.2851	27M7G7D	0.2296	27M8W7D
40	3470.01 ~ 3529.98	0.2818	37M9G7D	0.2259	37M9W7D
50	3475.02 ~ 3525.00	0.2793	47M4G7D	0.2249	47M6W7D
60	3480.00 ~ 3519.99	0.2799	57M8G7D	0.2249	57M9W7D
70	3485.01 ~ 3514.98	0.2871	67M5G7D	0.2323	67M6W7D
80	3490.02 ~ 3510.00	0.2864	77M5G7D	0.2301	77M7W7D
90	3495.00 ~ 3504.99	0.2805	87M4G7D	0.2275	87M5W7D
100	3500.01	0.2924	97M5G7D	0.2360	97M4W7D

5G NR n78 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2624	8M57G7D	0.2138	8M59W7D
15	3457.50 ~ 3542.49	0.2600	13M6G7D	0.2099	13M6W7D
20	3460.02 ~ 3540.00	0.2642	18M2G7D	0.2109	18M2W7D
25	3462.51 ~ 3537.48	0.2618	23M2G7D	0.2104	23M2W7D
30	3465.00 ~ 3534.99	0.2636	27M7G7D	0.2099	27M8W7D
40	3470.01 ~ 3529.98	0.2606	37M9G7D	0.2089	37M9W7D
50	3475.02 ~ 3525.00	0.2588	47M4G7D	0.2089	47M6W7D
60	3480.00 ~ 3519.99	0.2564	57M8G7D	0.2075	57M9W7D
70	3485.01 ~ 3514.98	0.2655	67M5G7D	0.2153	67M6W7D
80	3490.02 ~ 3510.00	0.2630	77M5G7D	0.2113	77M7W7D
90	3495.00 ~ 3504.99	0.2606	87M4G7D	0.2104	87M5W7D
100	3500.01	0.2661	97M5G7D	0.2128	97M4W7D

Note:

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

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 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.

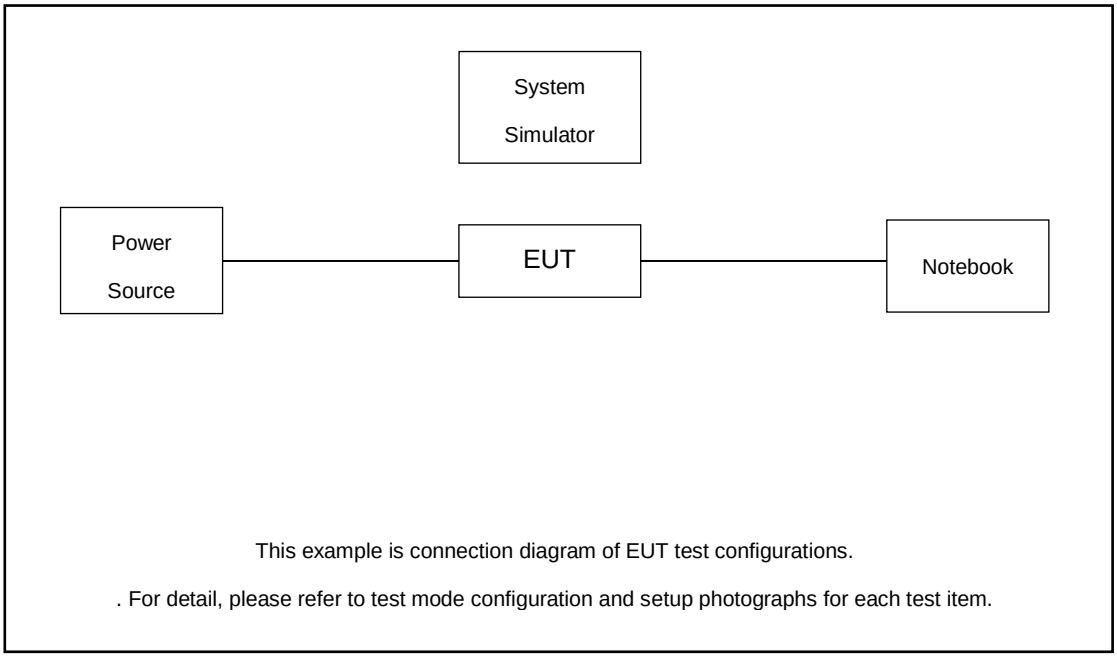
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Z Plane)

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

1. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
2. Frequency Stability: Normal Voltage = 3.8V ; Low Voltage =3.6V.; High Voltage =4.4V.

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
4.	Earphone	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.9 dB.

Example :

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

= 8.9 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
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

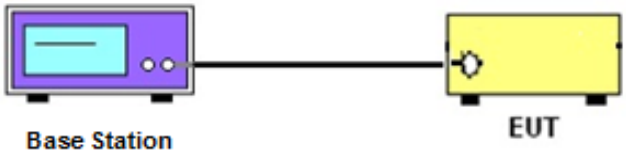
3 Conducted Test Items

3.1 Measuring Instruments

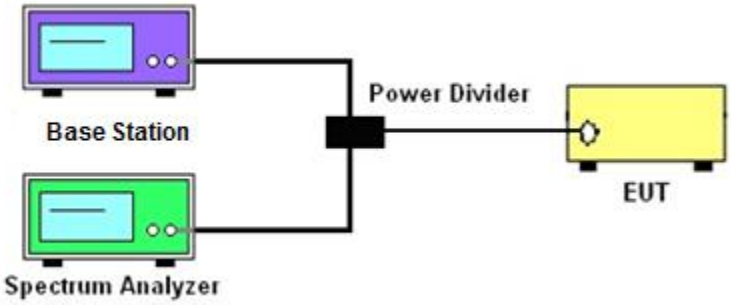
See list of measuring instruments of this test report.

3.2 Test Setup

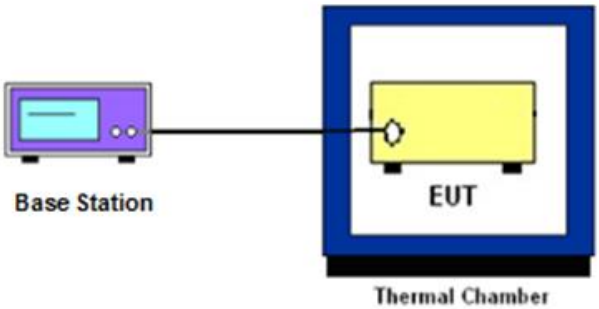
3.2.1 Conducted Output Power



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

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.

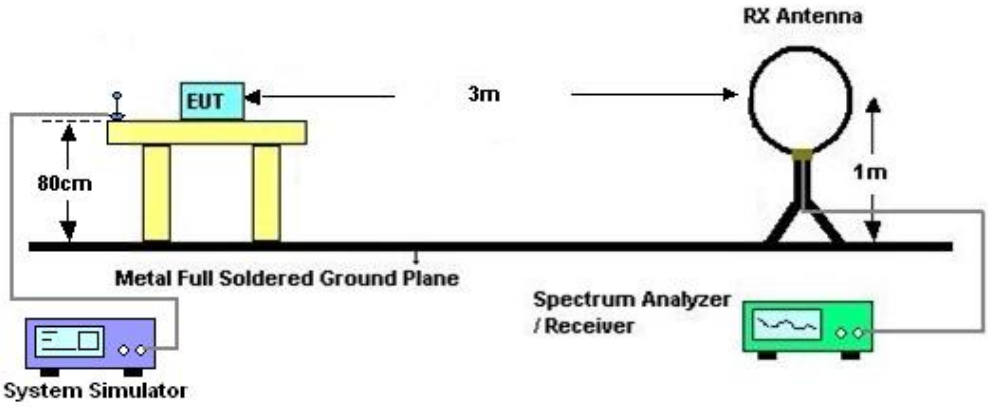
4 Radiated Test Items

4.1 Measuring Instruments

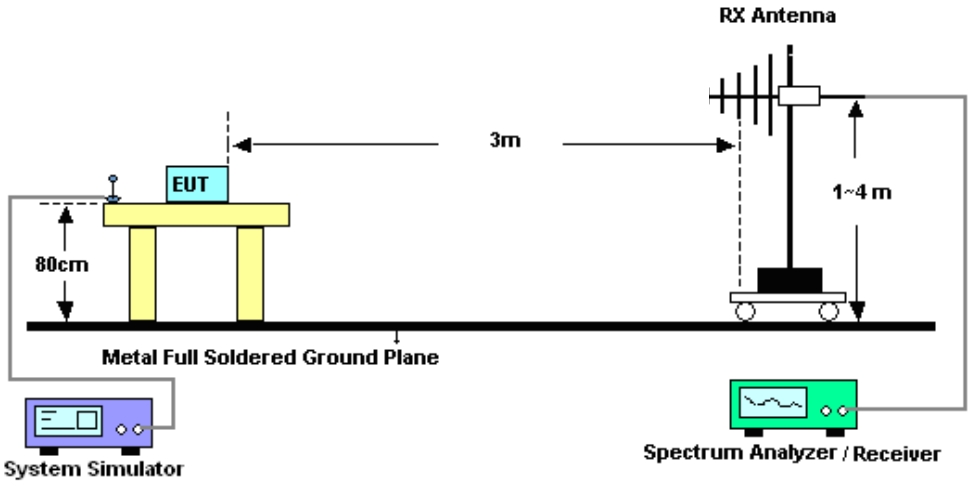
See list of measuring instruments of this test report.

4.2 Test Setup

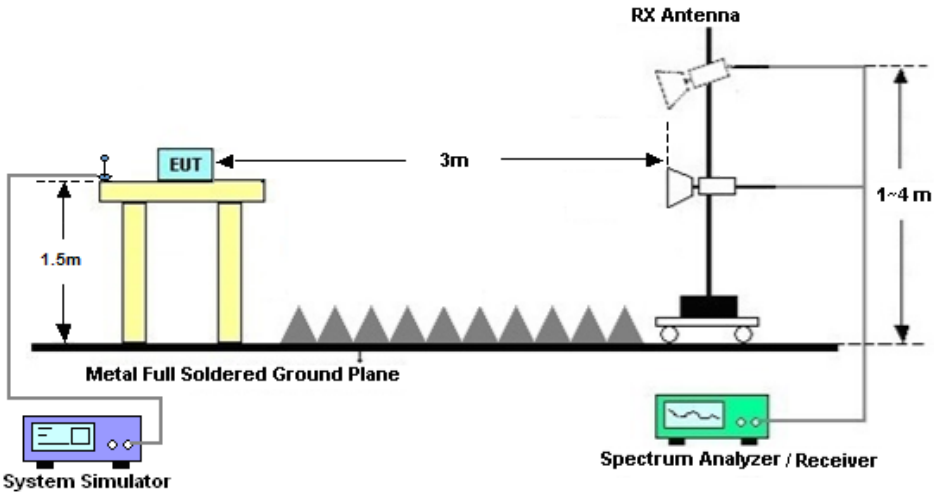
4.2.1 For radiated test below 30MHz



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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Aug. 15, 2024~ Aug. 26, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	Aug. 15, 2024~ Aug. 26, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Aug. 15, 2024~ Aug. 26, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Aug. 23, 2024~ Aug. 29, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Aug. 23, 2024~ Aug. 29, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2023	Aug. 23, 2024~ Aug. 29, 2024	Oct. 17, 2024	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 23, 2024~ Aug. 29, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Aug. 23, 2024~ Aug. 29, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Aug. 23, 2024~ Aug. 29, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Aug. 23, 2024~ Aug. 29, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Aug. 23, 2024~ Aug. 29, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Aug. 23, 2024~ Aug. 29, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Aug. 23, 2024~ Aug. 29, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 23, 2024~ Aug. 29, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 23, 2024~ Aug. 29, 2024	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

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

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

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

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

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

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

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

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

Appendix A. Test Results of Conducted Test

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

Software Version: 23.06.1602

FR1 N77

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

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.35	24.35	0.2723
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.5	23.5	0.2239
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.51	24.51	0.2825
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.56	23.56	0.2270
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	26.52	24.52	0.2831
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	25.55	23.55	0.2265
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.39	24.39	0.2748
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.46	23.46	0.2218
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.49	24.49	0.2812
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.55	23.55	0.2265
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	26.49	24.49	0.2812
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.49	24.49	0.2812
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.55	23.55	0.2265
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.5	24.5	0.2818
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.56	23.56	0.2270
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.46	24.46	0.2793

77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.52	23.52	0.2249
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	26.47	24.47	0.2799
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	25.53	23.53	0.2254
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.49	24.49	0.2812
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.55	23.55	0.2265
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	26.42	24.42	0.2767
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	25.48	23.48	0.2228
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.41	24.41	0.2761
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.48	23.48	0.2228
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.52	24.52	0.2831
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.56	23.56	0.2270
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.55	24.55	0.2851
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.61	23.61	0.2296
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.42	24.42	0.2767
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.49	23.49	0.2234
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.49	24.49	0.2812
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.5	24.5	0.2818
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.31	24.31	0.2698
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.42	23.42	0.2198

77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.46	24.46	0.2793
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.52	23.52	0.2249
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.38	24.38	0.2742
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.48	23.48	0.2228
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.35	24.35	0.2723
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.44	23.44	0.2208
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.41	24.41	0.2761
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.45	23.45	0.2213
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.47	24.47	0.2799
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.52	23.52	0.2249
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.39	24.39	0.2748
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	25.44	23.44	0.2208
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.45	24.45	0.2786
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.52	23.52	0.2249
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	26.58	24.58	0.2871
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	25.66	23.66	0.2323
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.45	24.45	0.2786
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.49	24.49	0.2812
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.6	23.6	0.2291
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.57	24.57	0.2864

77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	25.62	23.62	0.2301
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.42	24.42	0.2767
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	25.47	23.47	0.2223
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.43	24.43	0.2773
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.5	23.5	0.2239
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.48	24.48	0.2805
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	25.57	23.57	0.2275
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.61	24.61	0.2891
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.42	24.42	0.2767
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	26.43	24.43	0.2773
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.66	24.66	0.2924
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.41	24.41	0.2761
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	26.37	24.37	0.2735
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.73	23.73	0.2360
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.46	23.46	0.2218
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	25.45	23.45	0.2213
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	24.26	22.26	0.1683
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.05	22.05	0.1603
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.98	21.98	0.1578
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	22.32	20.32	0.1076
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.9	19.9	0.0977

77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21.88	19.88	0.0973
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	25.14	23.14	0.2061
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.85	22.85	0.1928
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.84	22.84	0.1923

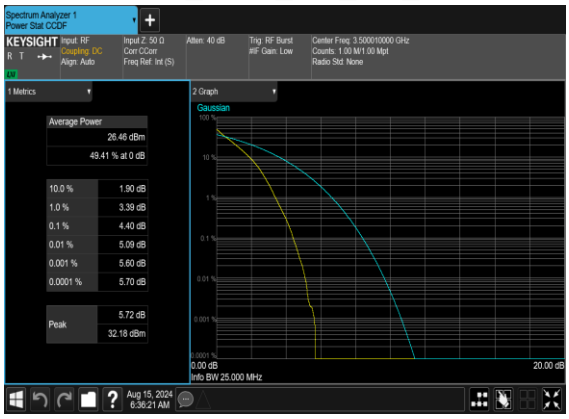
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0056	**PASS**	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0057	**PASS**	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	**PASS**	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0023	**PASS**	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0041	**PASS**	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0042	**PASS**	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0041	**PASS**	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0037	**PASS**	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0056	**PASS**	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0063	**PASS**	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0066	**PASS**	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0054	**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	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.4	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.61	13	**PASS**

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



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

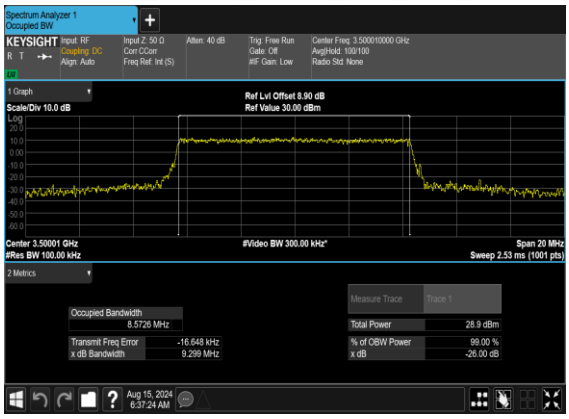
Occupied Bandwidth

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	8.5726	9.299
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5831	9.097
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5782	9.126
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5895	9.124
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.569	14.31
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.573	14.4
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.559	14.19
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.609	14.36
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.241	19.02
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.228	18.98
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.13	18.97
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.145	18.81
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.189	24.14
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.175	24.13
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.178	24.12
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.227	24.1
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.726	28.84
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.821	29.08
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.846	28.86
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.822	28.78
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.864	39.15

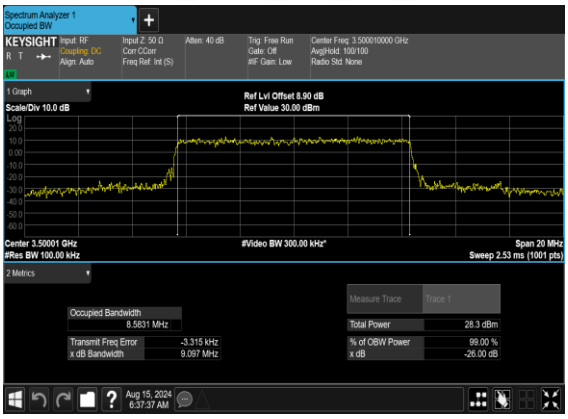
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.824	39.38
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.897	39.08
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.876	39.09
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.449	49.1
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.597	48.95
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.532	49.23
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.511	49.19
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.847	59.75
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.695	59.78
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.844	59.67
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.879	59.69
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.453	69.82
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.391	69.73
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.514	69.6
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.566	69.63
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.469	79.86
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.719	79.92
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.48	79.85
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.39	79.94
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.41	90.2
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.344	90.2
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.246	90.25
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.513	90.17
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.539	100.5

77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.304	100.4
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.423	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.295	100.4

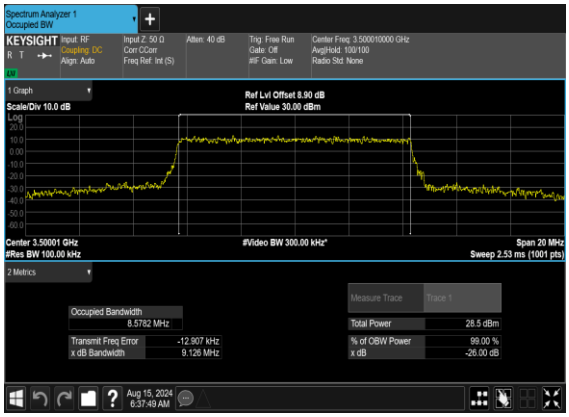
N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



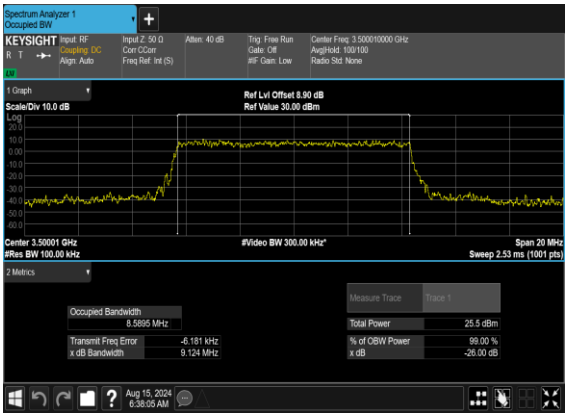
N77(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



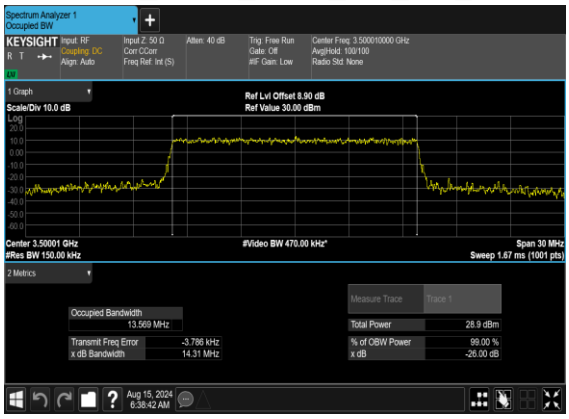
N77(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



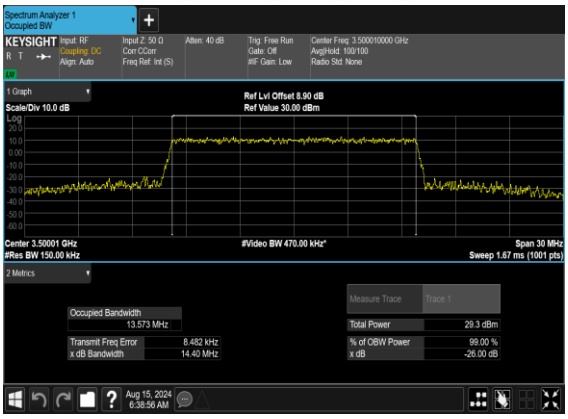
N77(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

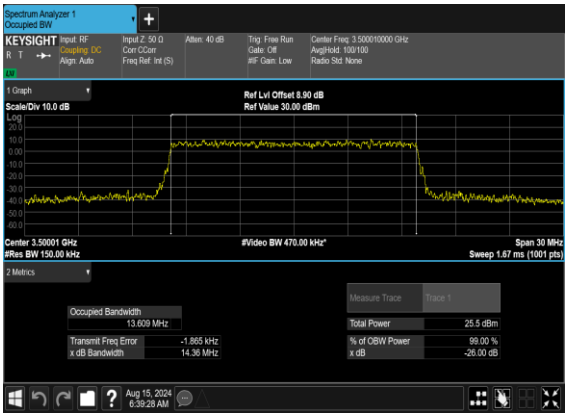


N77(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

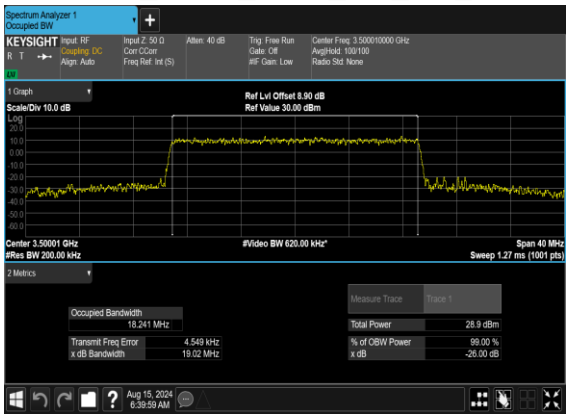


N77(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

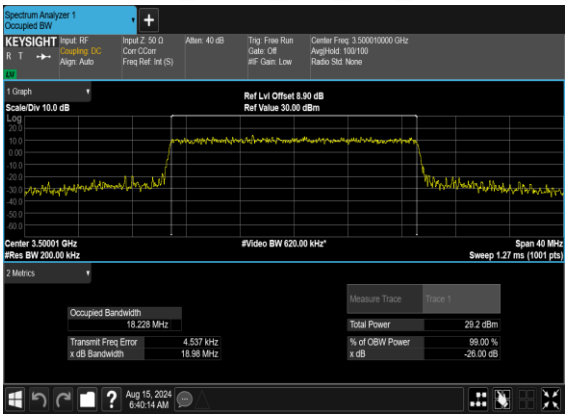
N77(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



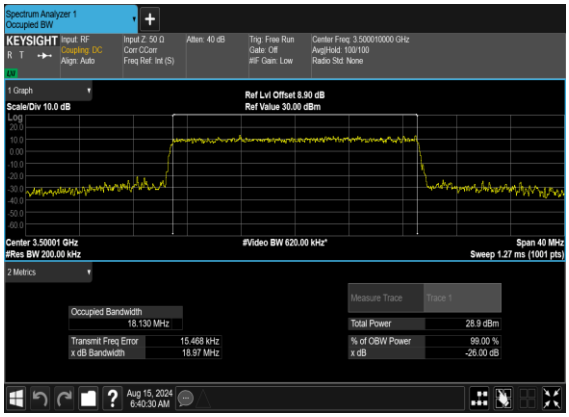
N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



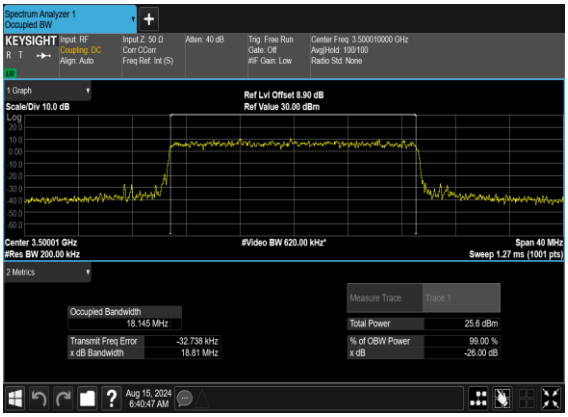
N77(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



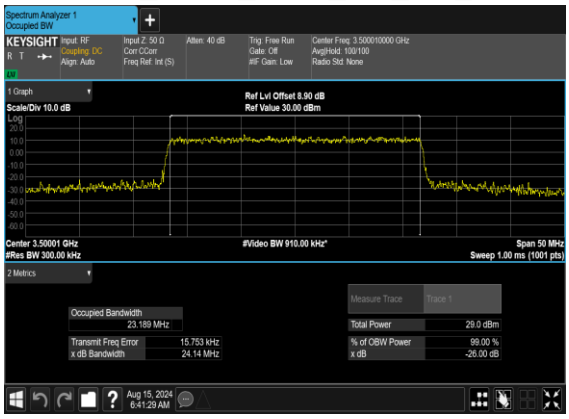
N77(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



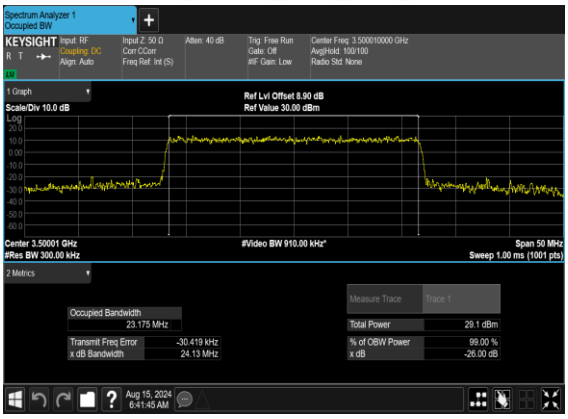
N77(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



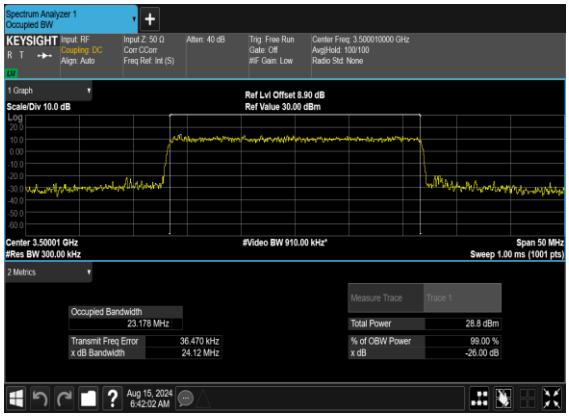
N77(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



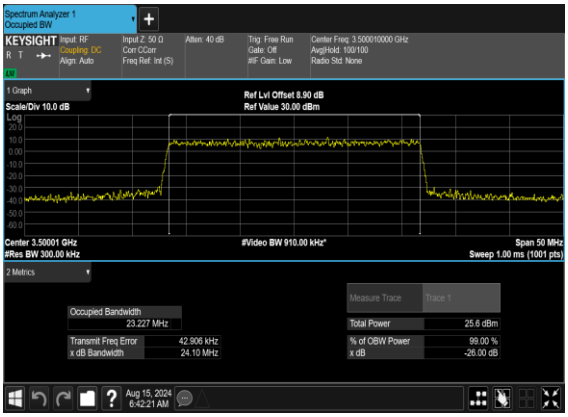
N77(25M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



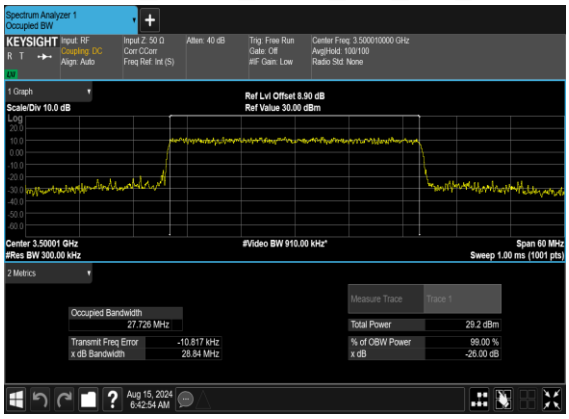
N77(25M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



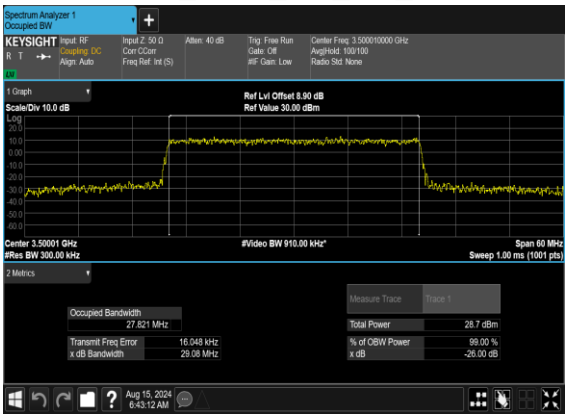
N77(25M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



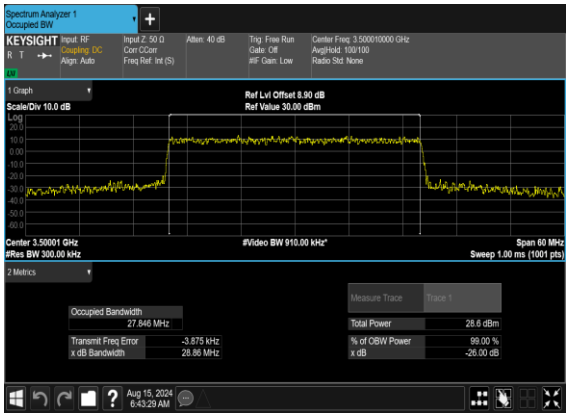
N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



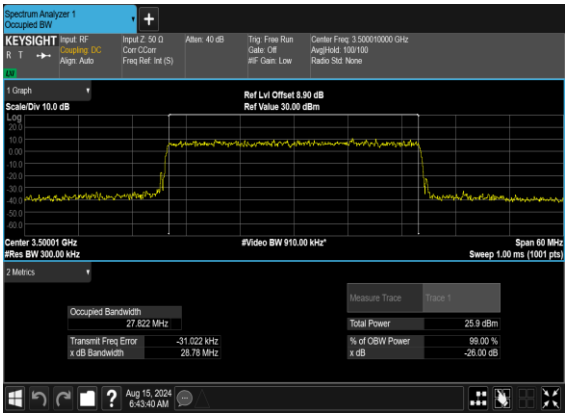
N77(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



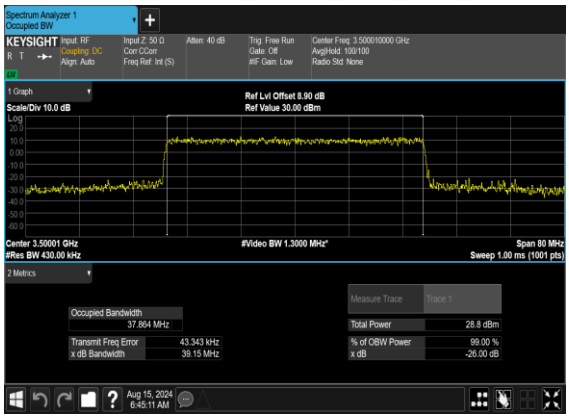
N77(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



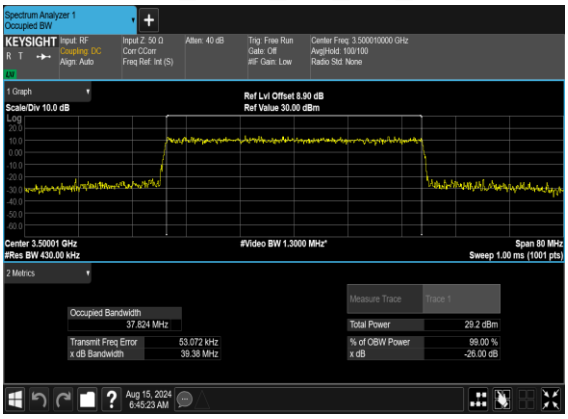
N77(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



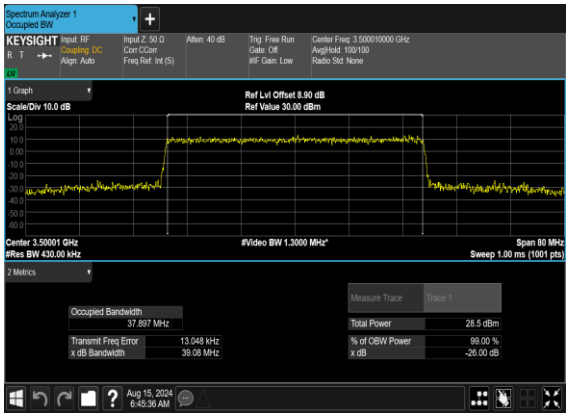
N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



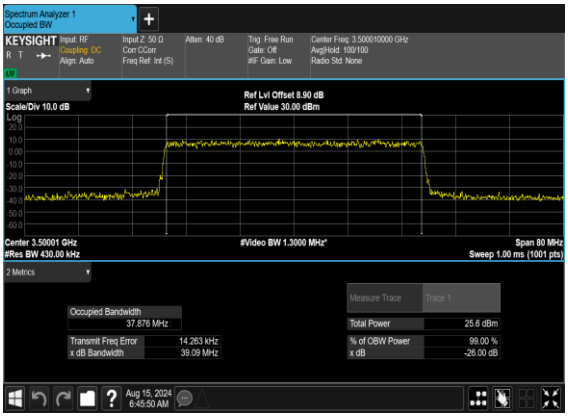
N77(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



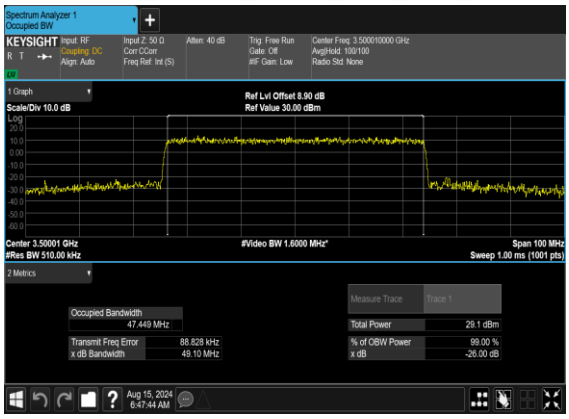
N77(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



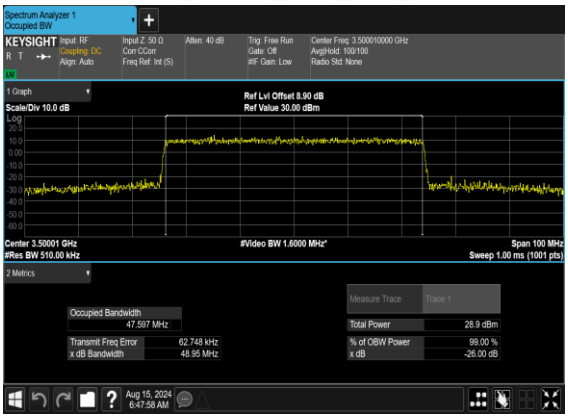
N77(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



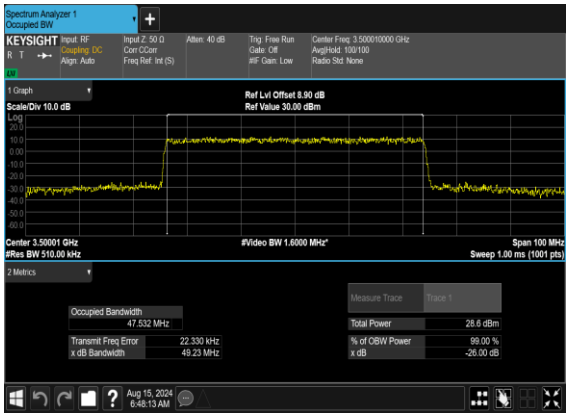
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



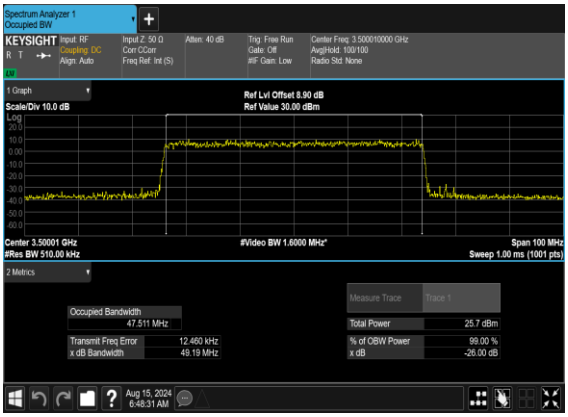
N77(50M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



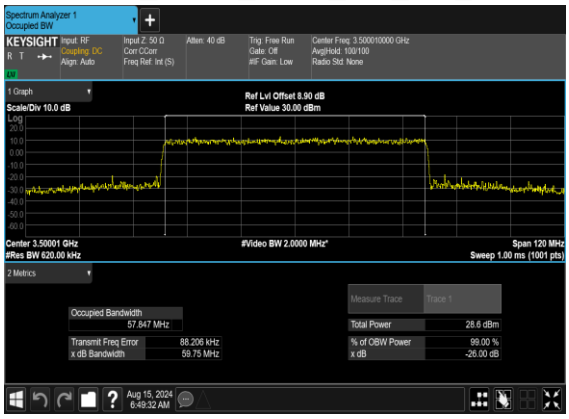
N77(50M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



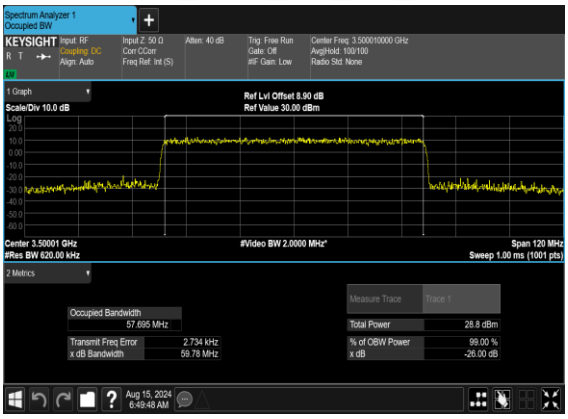
N77(50M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



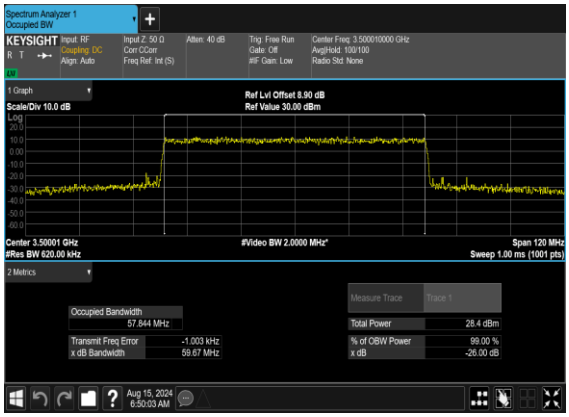
N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



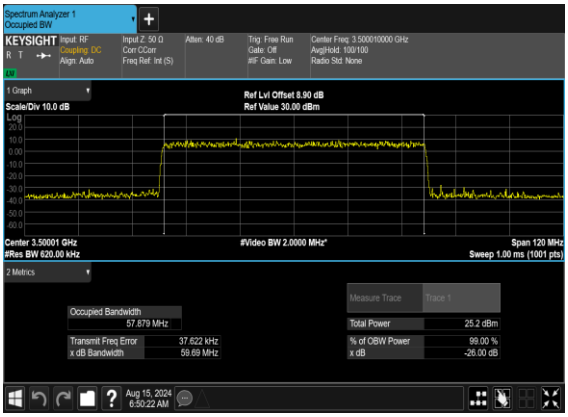
N77(60M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



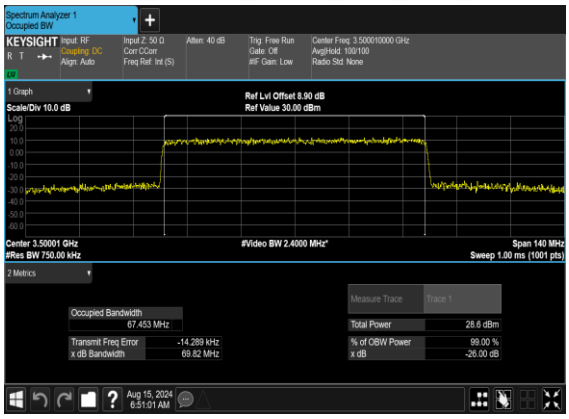
N77(60M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

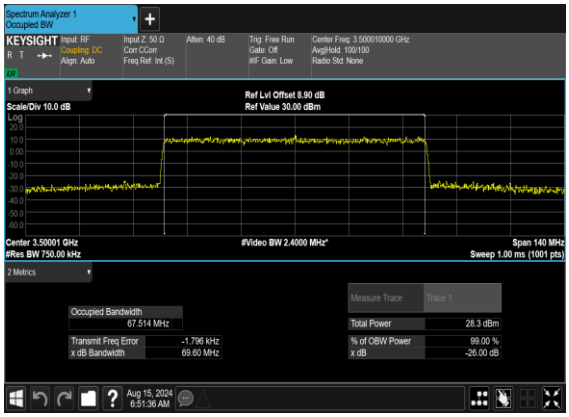


N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

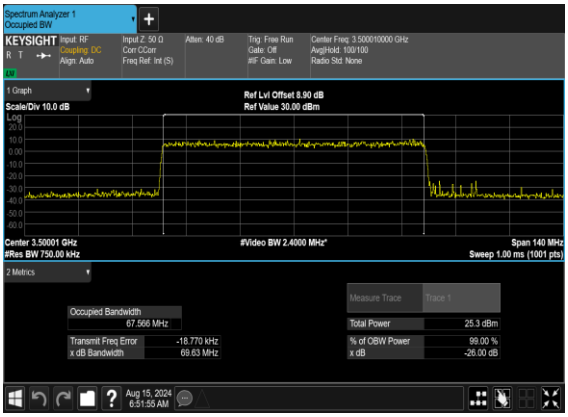


N77(70M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

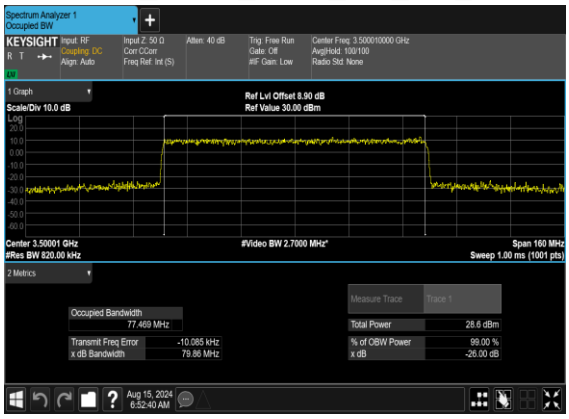
N77(70M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

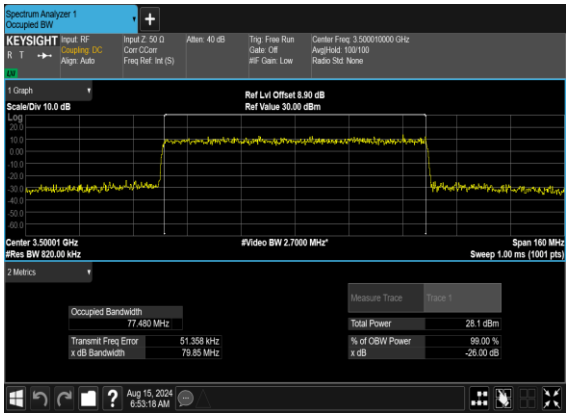


N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

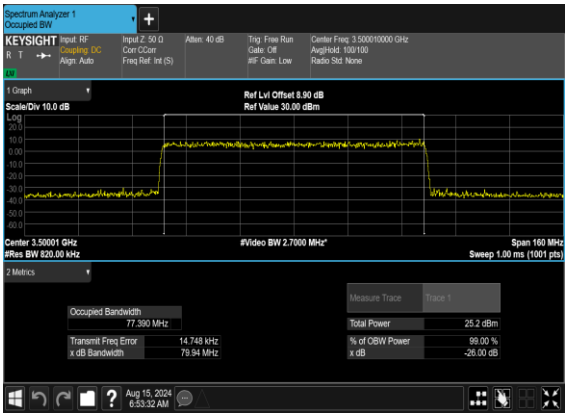


N77(80M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

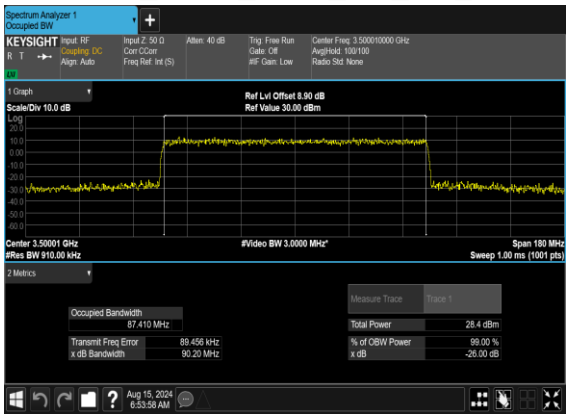
N77(80M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



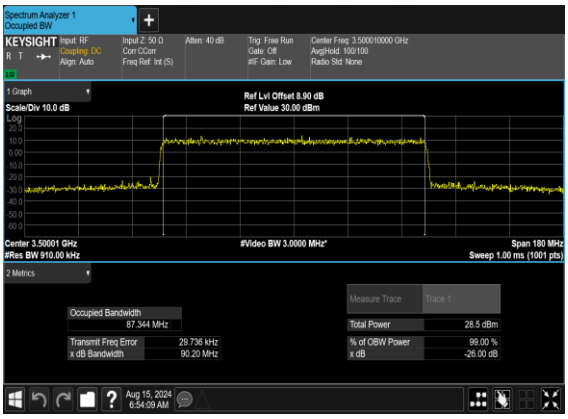
N77(80M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



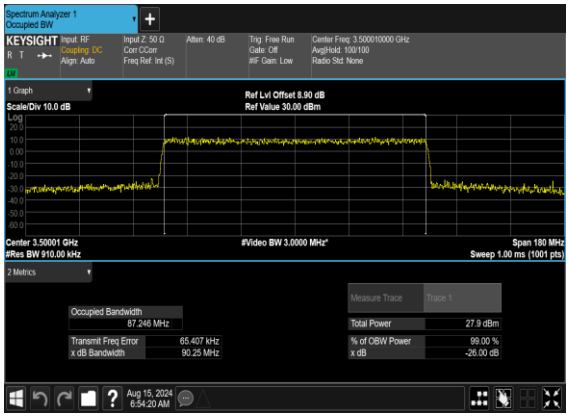
N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

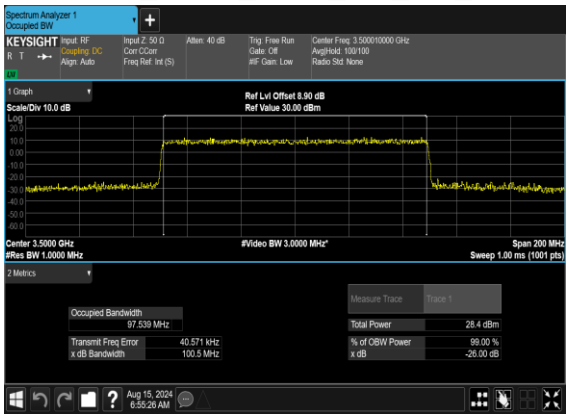


N77(90M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

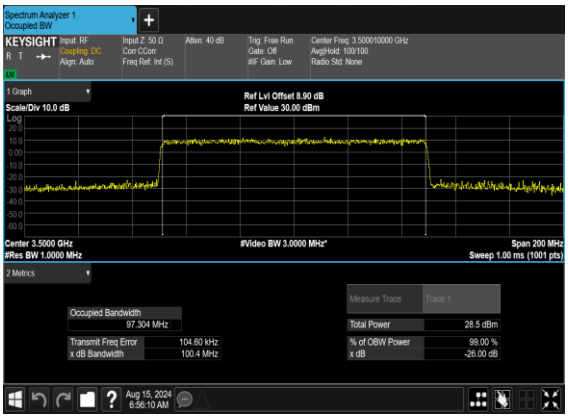


N77(90M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

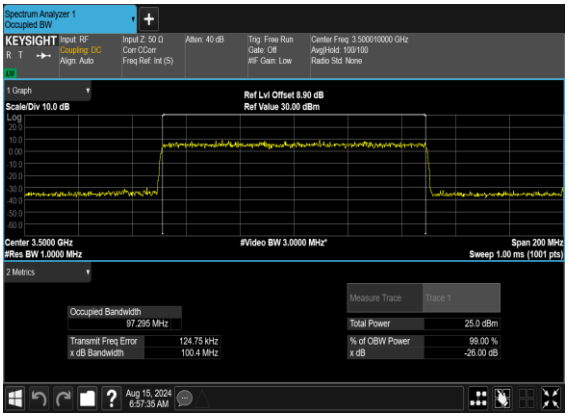


N77(100M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

N77(100M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



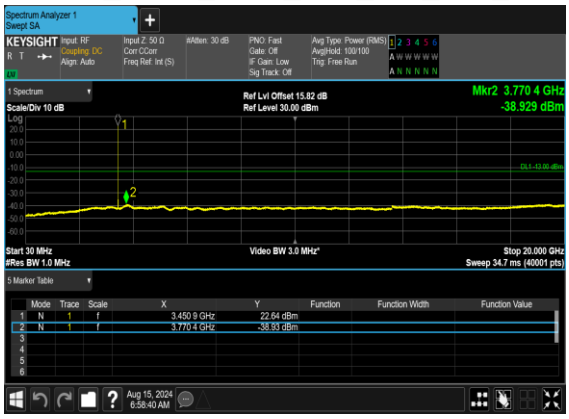
Conducted Spurious Emissions

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

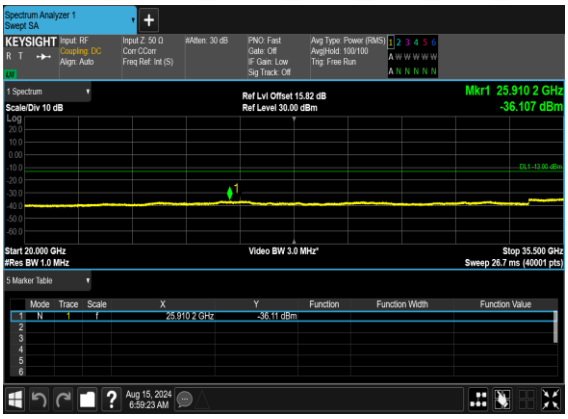
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph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

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

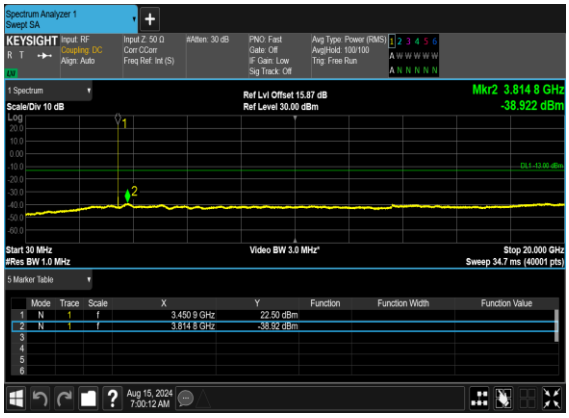
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



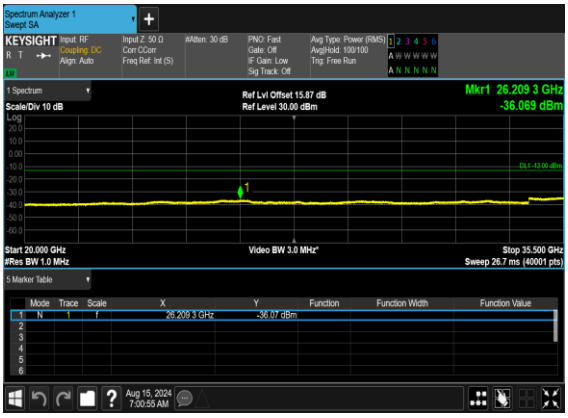
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



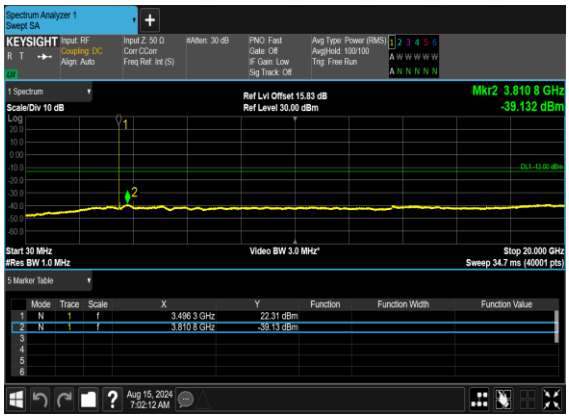
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



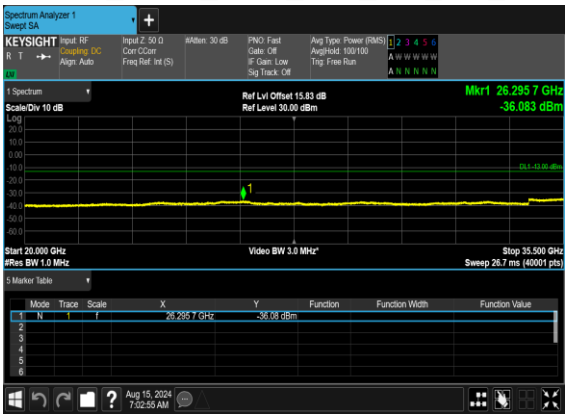
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



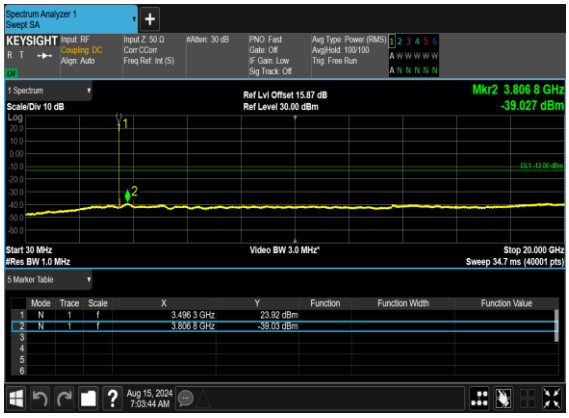
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



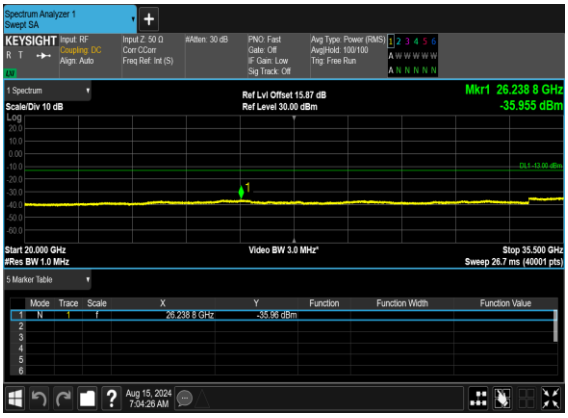
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



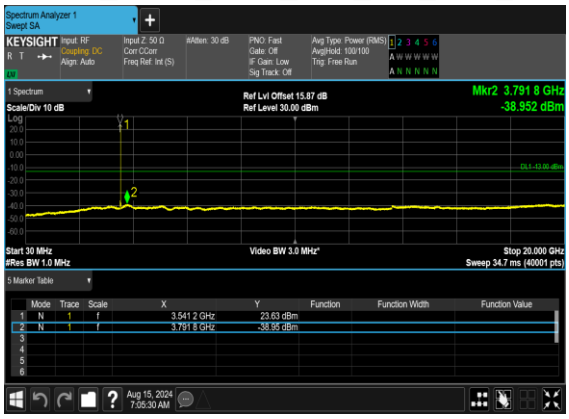
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

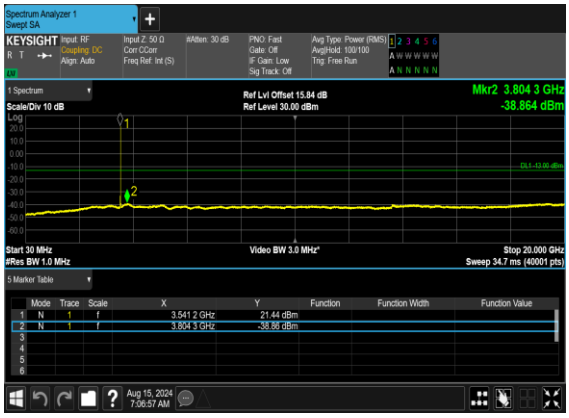


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

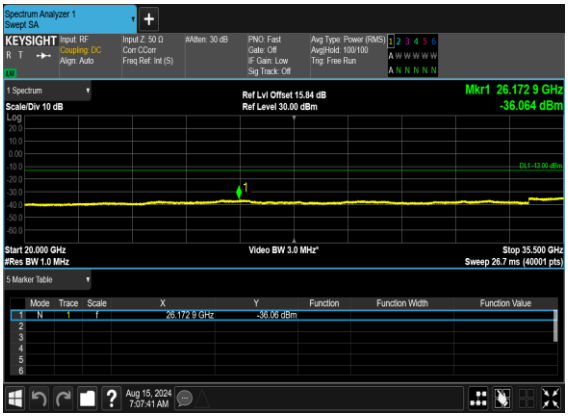


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

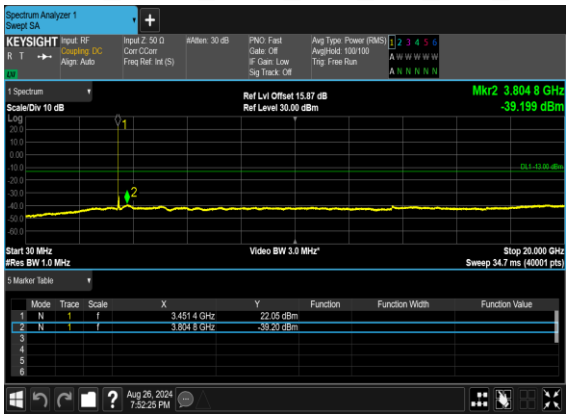
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



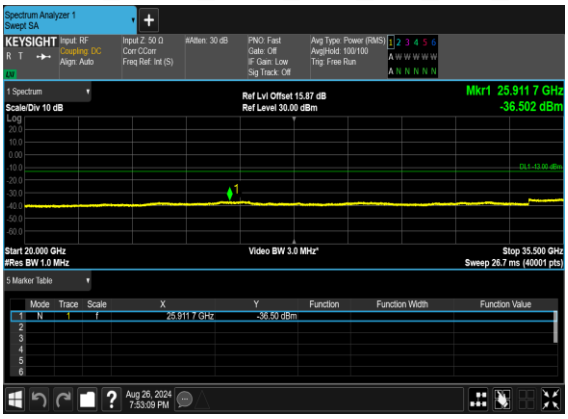
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



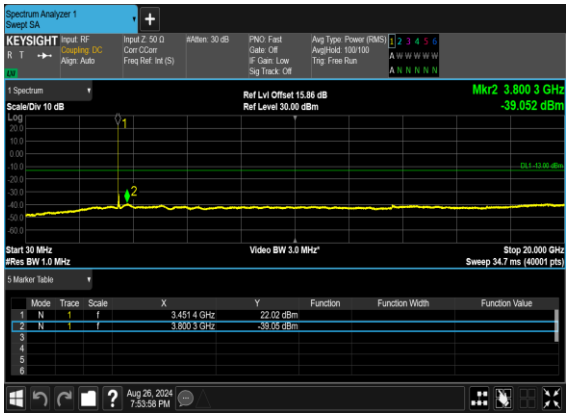
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



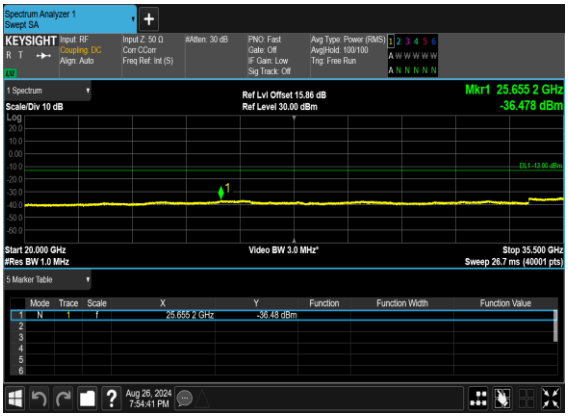
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



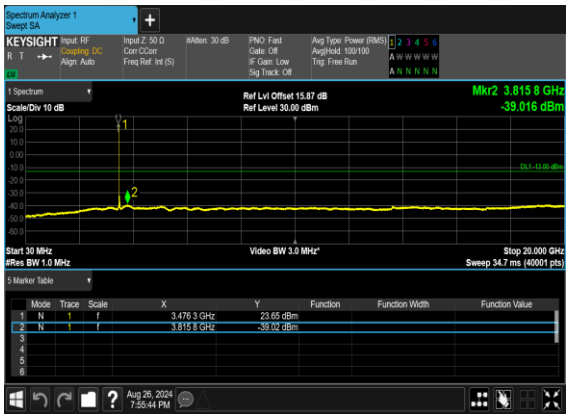
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



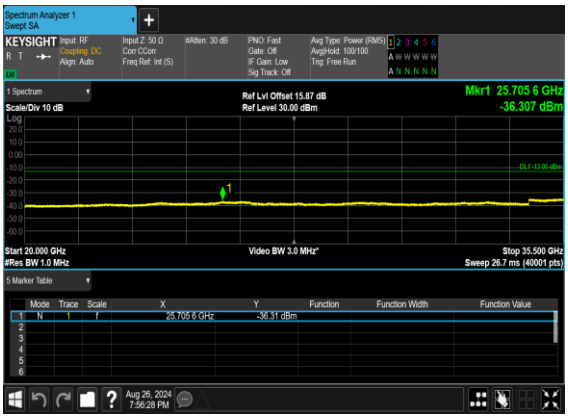
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



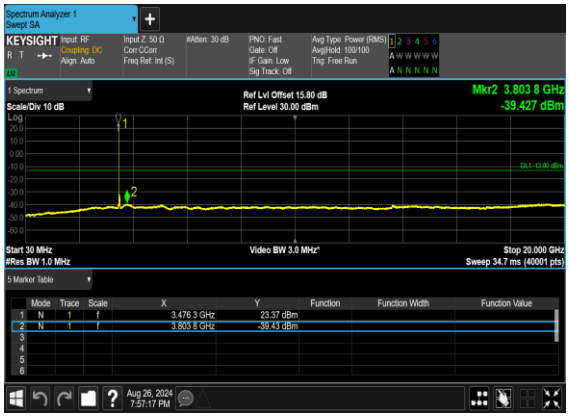
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



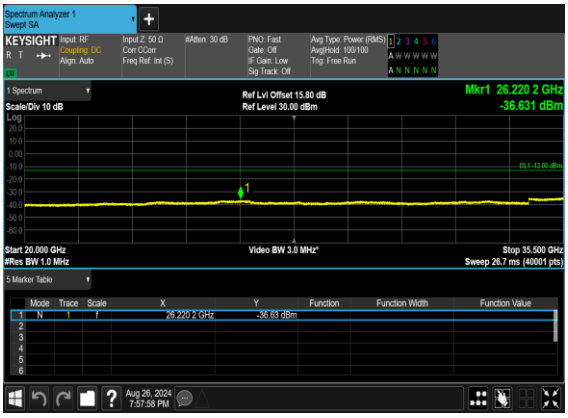
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



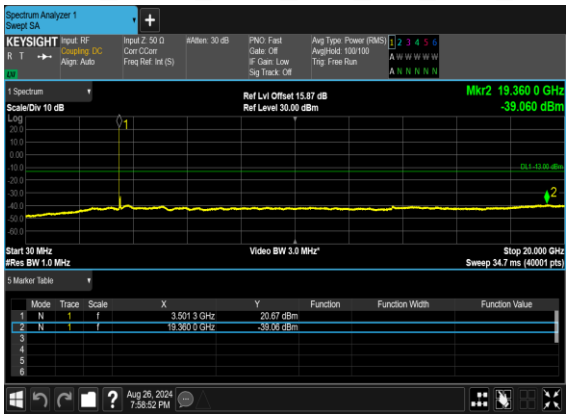
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



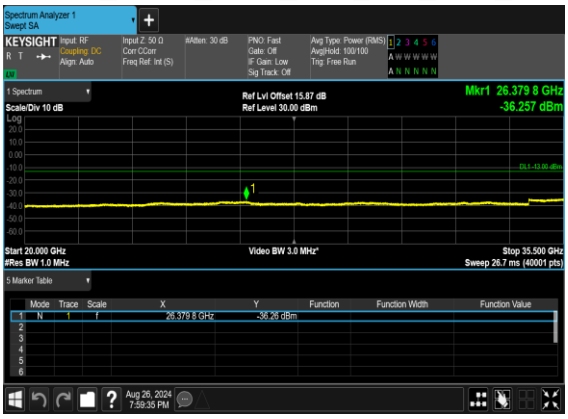
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



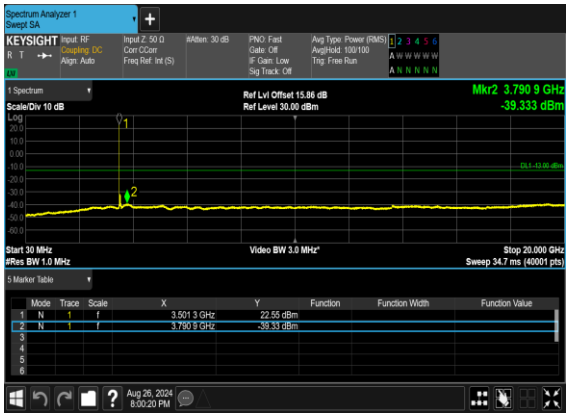
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



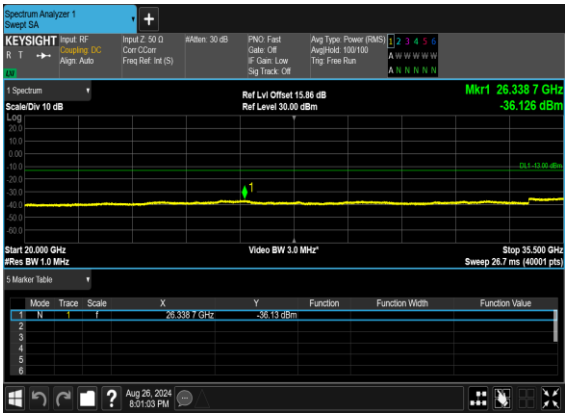
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



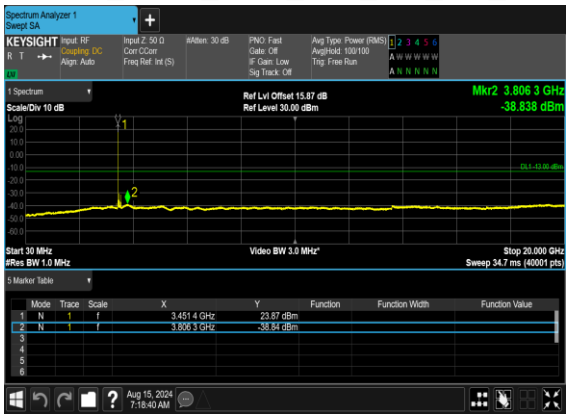
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



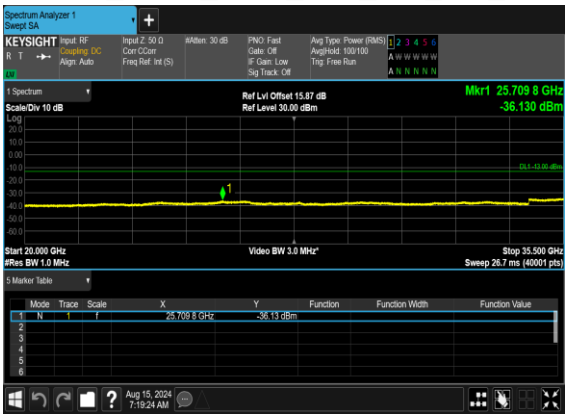
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



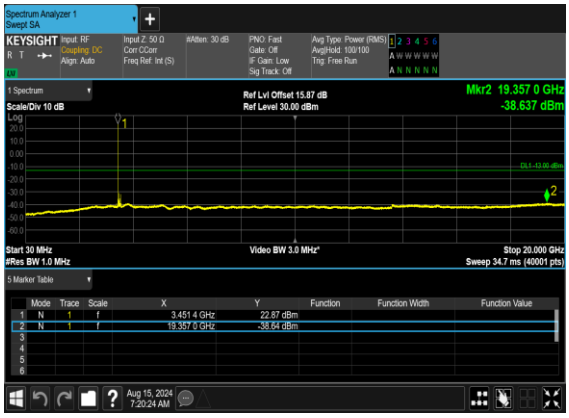
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



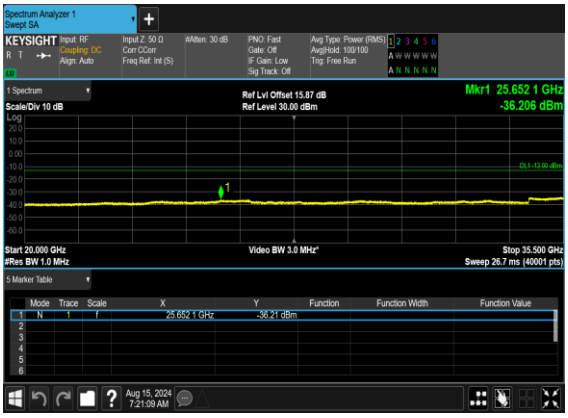
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

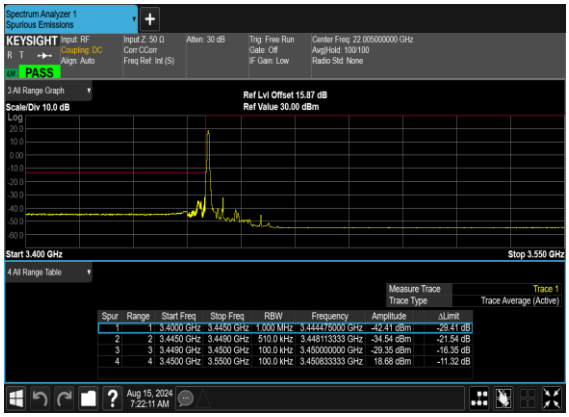


Conducted Band Edge

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**

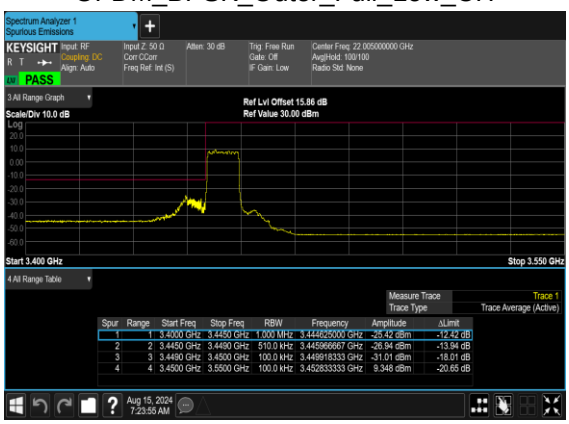
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

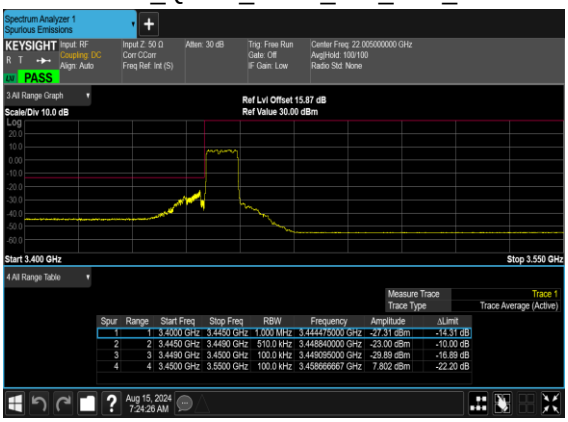


N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

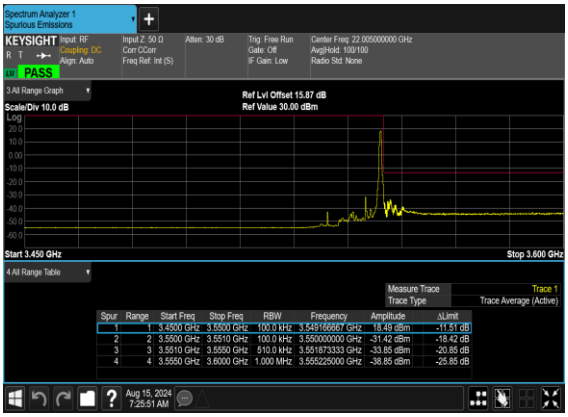


N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

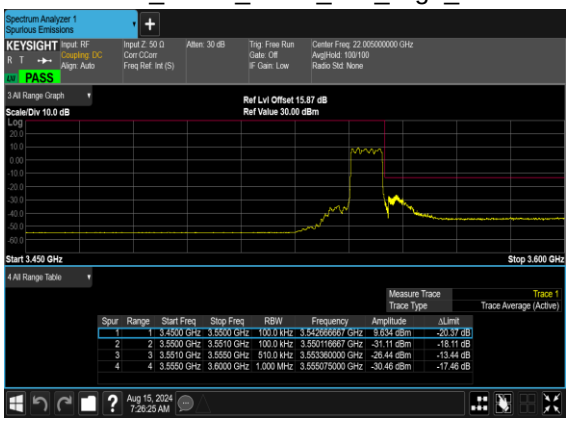
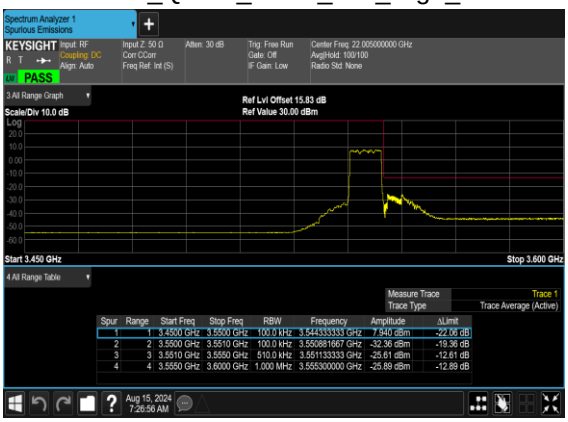


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH