FCC RF Test Report

APPLICANT	: Xiaomi Communications Co., Ltd.
EQUIPMENT	: Mobile Phone
BRAND NAME	: POCO
MODEL NAME	: 2311DRK48G
FCC ID	: 2AFZZK48G
STANDARD	: 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Oct. 11, 2023 ~ Oct. 13, 2023

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)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG391402J	Rev. 01	Initial issue of report	Nov. 06, 2023

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 30.45 dB at 10354.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2311DRK48G
FCC ID	2AFZZK48G
IMEI Code	Conducted : 863478060034729 Radiation : 863478060040627/863478060040635
HW Version	1351N11A
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	15kHz, 30kHz
Bandwidth	n77/n78(15kHz): 10 / 15 / 20 / 25 / 30 / 40 / 50MHz n77/n78(30kHz): 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	**<Ant. 5>** 5G NR n77: -1.8 dBi 5G NR n78: -1.8 dBi **<Ant. 6>** 5G NR n77: 0 dBi 5G NR n78: 0 dBi **<Ant. 7>** 5G NR n77: -0.18 dBi 5G NR n78: -0.18 dBi **<Ant. 8>** 5G NR n77: -1.5 dBi 5G NR n78: -1.5 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77/n78 for Antenna 6.
2. The device supports n77/n78(1T4R) SRS resources on Antenna 5/6/7/8, only the test data of worst Antenna 6 is showed in the report according to the maximum power.
3. 5G NR n77 support SA mode, n78 support SA and NSA mode. The whole testing has assessed SA mode by referring to the higher conducted power for conducted test items.
4. The device supports HPUE mode for 5G NR n77/n78.
5. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
6. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n77 SA for SCS 15kHz		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 ~ 3544.995	0.3327	9M28G7D	0.2748	9M31W7D
15	3457.50 ~ 3542.49	0.3396	14M1G7D	0.2773	14M1W7D
20	3460.005 ~ 3540.00	0.3412	18M9G7D	0.2742	18M9W7D
25	3462.51 ~ 3537.495	0.3357	23M7G7D	0.2704	23M8W7D
30	3465.00 ~ 3534.99	0.3396	28M7G7D	0.2716	28M6W7D
40	3470.01 ~ 3529.995	0.3388	38M5G7D	0.2786	38M7W7D
50	3475.005 ~ 3525.00	0.3436	48M3G7D	0.2786	48M2W7D
5G NR n77 SA for SCS 30kHz		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	0.3214	9M28G7D	0.2594	9M31W7D
15	3457.50 ~ 3542.49	0.3228	14M1G7D	0.2564	14M1W7D
20	3460.02 ~ 3540.00	0.3236	18M9G7D	0.2582	18M9W7D
25	3462.51 ~ 3537.48	0.3177	23M7G7D	0.2483	23M8W7D
30	3465.00 ~ 3534.99	0.3228	28M7G7D	0.2506	28M6W7D
40	3470.01 ~ 3529.98	0.3311	38M5G7D	0.2600	38M7W7D
50	3475.02 ~ 3525.00	0.3289	48M3G7D	0.2535	48M2W7D
60	3480.00 ~ 3519.99	0.3199	57M9G7D	0.2512	57M9W7D
70	3485.01 ~ 3514.98	0.3251	67M6G7D	0.2564	67M4W7D
80	3490.02 ~ 3510.00	0.3281	77M5G7D	0.2582	77M6W7D
90	3495.00 ~ 3504.99	0.3258	87M5G7D	0.2570	87M5W7D
100	3500.01	0.3365	97M4G7D	0.2588	97M4W7D

5G NR n78 SA for SCS 15kHz		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 ~ 3544.995	0.4236	9M28G7D	0.3404	9M31W7D
15	3457.50 ~ 3542.49	0.4285	14M1G7D	0.3436	14M1W7D
20	3460.005 ~ 3540.00	0.4305	18M9G7D	0.3459	18M9W7D
25	3462.51 ~ 3537.495	0.4246	23M7G7D	0.3396	23M8W7D
30	3465.00 ~ 3534.99	0.4305	28M7G7D	0.3451	28M6W7D
40	3470.01 ~ 3529.995	0.4385	38M5G7D	0.3540	38M7W7D
50	3475.005 ~ 3525.00	0.4416	48M3G7D	0.3532	48M2W7D
5G NR n78 SA for SCS 30kHz		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	0.4102	9M28G7D	0.3319	9M31W7D
15	3457.50 ~ 3542.49	0.4130	14M1G7D	0.3319	14M1W7D
20	3460.02 ~ 3540.00	0.4150	18M9G7D	0.3342	18M9W7D
25	3462.51 ~ 3537.48	0.4121	23M7G7D	0.3350	23M8W7D
30	3465.00 ~ 3534.99	0.4198	28M7G7D	0.3350	28M6W7D
40	3470.01 ~ 3529.98	0.4256	38M5G7D	0.3412	38M7W7D
50	3475.02 ~ 3525.00	0.4178	48M3G7D	0.3381	48M2W7D
60	3480.00 ~ 3519.99	0.4169	57M9G7D	0.3365	57M9W7D
70	3485.01 ~ 3514.98	0.4305	67M6G7D	0.3443	67M4W7D
80	3490.02 ~ 3510.00	0.4266	77M5G7D	0.3436	77M6W7D
90	3495.00 ~ 3504.99	0.4285	87M5G7D	0.3443	87M5W7D
100	3500.01	0.4375	97M4G7D	0.3428	97M4W7D

Note:

1. 5G NR Band n78 overlaps the entire frequency range of Band n77, and n78 power > n77 power, therefore the conducted test results of n78 provided in this report cover n77.
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.**
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-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 2, 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.

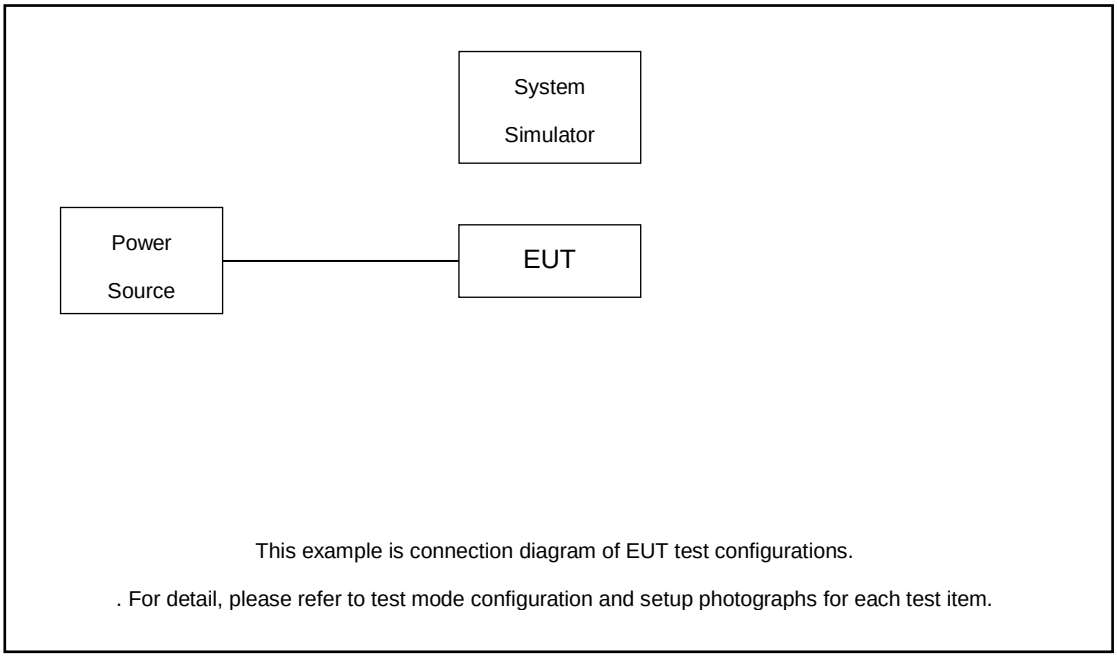
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y Plane)

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 n78	20M, 100M	PI/2 BPSK, QPSK	1RB, 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 n78	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n78	10M, 25M, 50M, 60M, 80M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	10M, 25M, 50M,60M, 80M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M, 100M	QPSK	Full RB	M
Radiated Spurious Emission	5G n78	Worst case from maximum power			M

Note:

1. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
2. Frequency Stability: Normal Voltage = 3.89V ; Low Voltage =3.45V.; High Voltage =4.45V.

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

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

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss

Offset = RF cable loss

Following shows an offset computation example with cable loss 8.90 dB

Example :

Offset(dB) = RF cable loss(dB)

= 8.90 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List for SCS 15kHz				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
50	Channel	631667	633334	635000
	Frequency	3475.005	3500.01	3525
40	Channel	631334	633334	635333
	Frequency	3470.01	3500.01	3529.995
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635833
	Frequency	3462.51	3500.01	3537.495
20	Channel	630667	633334	636000
	Frequency	3460.005	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636333
	Frequency	3455.01	3500.01	3544.995

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

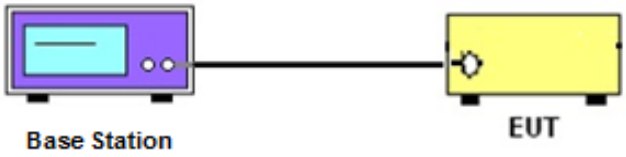
3 Conducted Test Items

3.1 Measuring Instruments

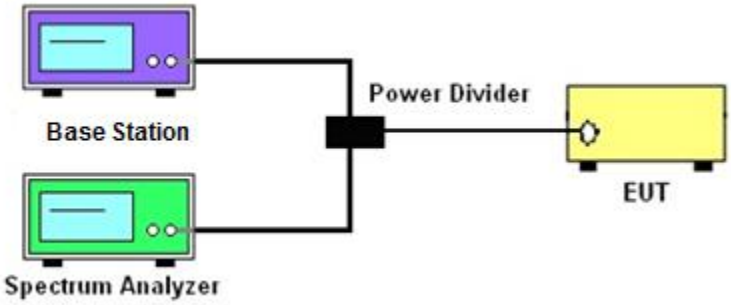
See list of measuring instruments of this test report.

3.2 Test Setup

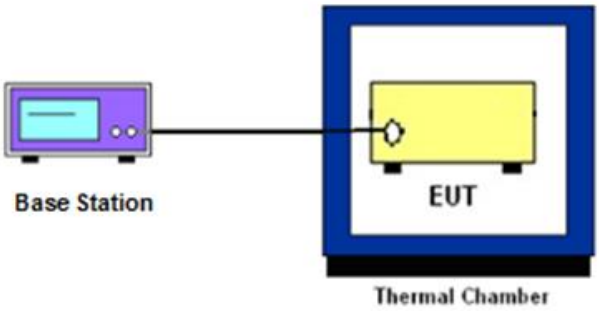
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

   P_T = transmitter output power in dBm

   G_T = gain of the transmitting antenna in dBi

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

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

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

3.7.2 Test Procedures

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

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW ≥ 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 10^{th} 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.

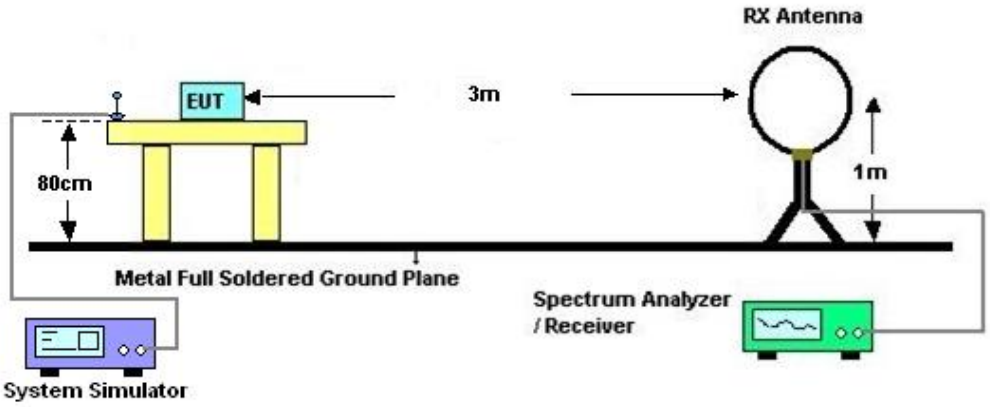
4 Radiated Test Items

4.1 Measuring Instruments

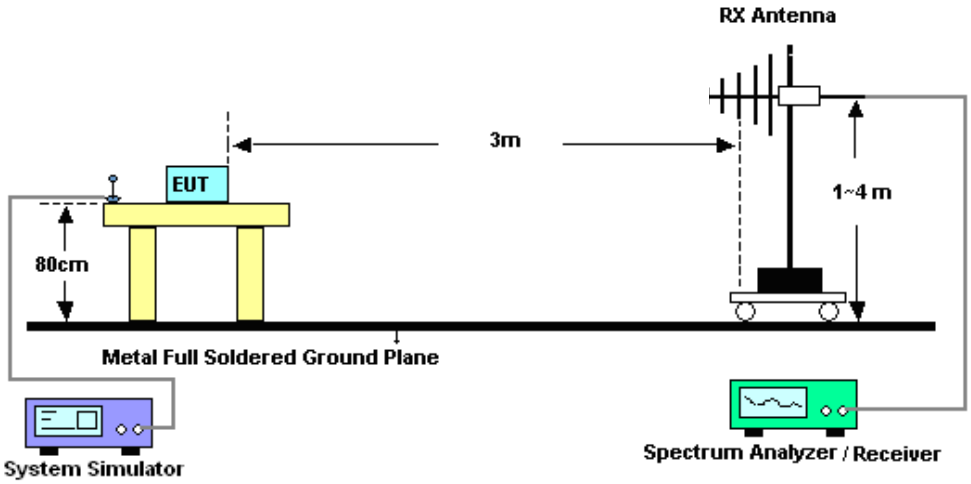
See list of measuring instruments of this test report.

4.2 Test Setup

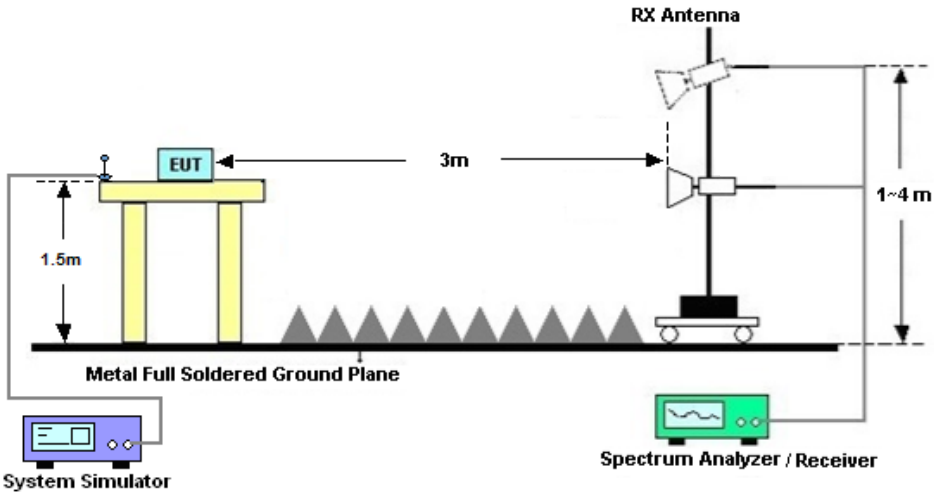
4.2.1 For radiated test below 30MHz



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/TIA-603-E.

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. 06, 2023	Oct. 12, 2023~ Oct. 13, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 17, 2022	Oct. 12, 2023~ Oct. 13, 2023	Oct. 16, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2022	Oct. 12, 2023~ Oct. 13, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Oct. 12, 2023~ Oct. 13, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 11, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Oct. 11, 2023	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Oct. 11, 2023	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Oct. 11, 2023	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov. 10, 2022	Oct. 11, 2023	Nov. 09, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-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 Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB

---------- 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-SCS 15K(ANT6)

Transmitter Conducted Output Power and EIRP, (G_T - L_C)=0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.22	25.22	0.3327
77	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.39	24.39	0.2748
77	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.08	25.08	0.3221
77	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.23	24.23	0.2649
77	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@1	24.83	24.83	0.3041
77	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@1	23.95	23.95	0.2483
77	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.31	25.31	0.3396
77	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.43	24.43	0.2773
77	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25	25	0.3162
77	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.11	24.11	0.2576
77	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	24.85	24.85	0.3055
77	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	23.92	23.92	0.2466
77	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@1	25.33	25.33	0.3412
77	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	1@1	24.38	24.38	0.2742
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.94	24.94	0.3119
77	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.06	24.06	0.2547
77	15	20	636000	3540	DFT-s-OFDM QPSK	1@1	24.93	24.93	0.3112
77	15	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.05	24.05	0.2541
77	15	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	25.26	25.26	0.3357
77	15	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	24.32	24.32	0.2704
77	15	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.75	24.75	0.2985
77	15	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.79	23.79	0.2393
77	15	25	635833	3537.495	DFT-s-OFDM QPSK	1@1	24.97	24.97	0.3141
77	15	25	635833	3537.495	DFT-s-OFDM 16 QAM	1@1	24.02	24.02	0.2523
77	15	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.31	25.31	0.3396
77	15	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.34	24.34	0.2716
77	15	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.72	24.72	0.2965
77	15	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.77	23.77	0.2382
77	15	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.19	25.19	0.3304
77	15	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.23	24.23	0.2649

77	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.27	25.27	0.3365
77	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.31	24.31	0.2698
77	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.45	24.45	0.2786
77	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.49	23.49	0.2234
77	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@1	25.3	25.3	0.3388
77	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@1	24.45	24.45	0.2786
77	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	135@67	24.62	24.62	0.2897
77	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@1	25.25	25.25	0.3350
77	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@268	25.07	25.07	0.3214
77	15	50	631667	3475.005	DFT-s-OFDM QPSK	135@67	24.63	24.63	0.2904
77	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@1	25.33	25.33	0.3412
77	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@268	25.2	25.2	0.3311
77	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	135@67	23.64	23.64	0.2312
77	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@1	24.39	24.39	0.2748
77	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@268	24.16	24.16	0.2606
77	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	135@67	22.18	22.18	0.1652
77	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@1	22.47	22.47	0.1766
77	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@268	22.36	22.36	0.1722
77	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	135@67	20.2	20.2	0.1047
77	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@1	20.66	20.66	0.1164
77	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@268	20.49	20.49	0.1119
77	15	50	631667	3475.005	CP-OFDM QPSK	135@67	23.14	23.14	0.2061
77	15	50	631667	3475.005	CP-OFDM QPSK	1@1	23.7	23.7	0.2344
77	15	50	631667	3475.005	CP-OFDM QPSK	1@268	23.51	23.51	0.2244
77	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.14	25.14	0.3266
77	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.52	24.52	0.2831
77	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@268	24.86	24.86	0.3062
77	15	50	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.19	25.19	0.3304
77	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.59	24.59	0.2877
77	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@268	24.98	24.98	0.3148
77	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.17	24.17	0.2612
77	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.64	23.64	0.2312
77	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@268	23.92	23.92	0.2466
77	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.68	22.68	0.1854
77	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.82	21.82	0.1521
77	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@268	22.15	22.15	0.1641

77	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	20.73	20.73	0.1183
77	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.89	19.89	0.0975
77	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@268	20.27	20.27	0.1064
77	15	50	633334	3500.01	CP-OFDM QPSK	135@67	23.64	23.64	0.2312
77	15	50	633334	3500.01	CP-OFDM QPSK	1@1	22.96	22.96	0.1977
77	15	50	633334	3500.01	CP-OFDM QPSK	1@268	23.31	23.31	0.2143
77	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	135@67	25.01	25.01	0.3170
77	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.31	25.31	0.3396
77	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@268	24.84	24.84	0.3048
77	15	50	635000	3525	DFT-s-OFDM QPSK	135@67	25.03	25.03	0.3184
77	15	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.36	25.36	0.3436
77	15	50	635000	3525	DFT-s-OFDM QPSK	1@268	24.99	24.99	0.3155
77	15	50	635000	3525	DFT-s-OFDM 16 QAM	135@67	24.04	24.04	0.2535
77	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.45	24.45	0.2786
77	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@268	23.93	23.93	0.2472
77	15	50	635000	3525	DFT-s-OFDM 64 QAM	135@67	22.57	22.57	0.1807
77	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	22.5	22.5	0.1778
77	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@268	22.16	22.16	0.1644
77	15	50	635000	3525	DFT-s-OFDM 256 QAM	135@67	20.58	20.58	0.1143
77	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	20.72	20.72	0.1180
77	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@268	20.29	20.29	0.1069
77	15	50	635000	3525	CP-OFDM QPSK	135@67	23.53	23.53	0.2254
77	15	50	635000	3525	CP-OFDM QPSK	1@1	23.79	23.79	0.2393
77	15	50	635000	3525	CP-OFDM QPSK	1@268	23.35	23.35	0.2163

Software Version: 23.06.1602

FR1 N77-SCS 30K(ANT6)

Transmitter Conducted Output Power and EIRP, (G_T - L_C)=0dB

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	25.07	25.07	0.3214
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.14	24.14	0.2594
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.94	24.94	0.3119
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.97	23.97	0.2495
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	24.67	24.67	0.2931
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	23.71	23.71	0.2350
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.09	25.09	0.3228
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.09	24.09	0.2564
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.84	24.84	0.3048
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.8	23.8	0.2399
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	24.65	24.65	0.2917
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	23.62	23.62	0.2301
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.1	25.1	0.3236
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.12	24.12	0.2582
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.74	24.74	0.2979
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.75	23.75	0.2371
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	24.75	24.75	0.2985
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	23.67	23.67	0.2328
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	25.02	25.02	0.3177
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	23.95	23.95	0.2483
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.57	24.57	0.2864
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.49	23.49	0.2234
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	24.72	24.72	0.2965
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	23.72	23.72	0.2355
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.09	25.09	0.3228
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	23.99	23.99	0.2506
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.56	24.56	0.2858
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.44	23.44	0.2208
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	24.96	24.96	0.3133

77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	23.89	23.89	0.2449
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.05	25.05	0.3199
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	23.96	23.96	0.2489
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.33	24.33	0.2710
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.24	23.24	0.2109
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.2	25.2	0.3311
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.15	24.15	0.2600
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.06	25.06	0.3206
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	23.97	23.97	0.2495
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.34	24.34	0.2716
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.21	23.21	0.2094
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.17	25.17	0.3289
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.04	24.04	0.2535
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.05	25.05	0.3199
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24	24	0.2512
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.44	24.44	0.2780
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.33	23.33	0.2153
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	24.75	24.75	0.2985
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	23.68	23.68	0.2333
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.12	25.12	0.3251
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.09	24.09	0.2564
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.59	24.59	0.2877
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.6	23.6	0.2291
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	24.42	24.42	0.2767
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	23.43	23.43	0.2203
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.16	25.16	0.3281
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.12	24.12	0.2582
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.85	24.85	0.3055
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.79	23.79	0.2393
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	24.47	24.47	0.2799
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	23.48	23.48	0.2228
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.13	25.13	0.3258
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.1	24.1	0.2570
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.01	25.01	0.3170
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.99	23.99	0.2506
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	24.85	24.85	0.3055

77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.82	23.82	0.2410
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	24.69	24.69	0.2944
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.27	25.27	0.3365
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.54	24.54	0.2844
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	24.72	24.72	0.2965
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.23	25.23	0.3334
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.45	24.45	0.2786
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	23.78	23.78	0.2388
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.13	24.13	0.2588
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	23.45	23.45	0.2213
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.36	22.36	0.1722
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.74	22.74	0.1879
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	21.99	21.99	0.1581
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	20.35	20.35	0.1084
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.43	20.43	0.1104
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.79	19.79	0.0953
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	23.29	23.29	0.2133
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.47	23.47	0.2223
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.85	22.85	0.1928

Software Version: 23.06.1602

FR1 N78-SCS 15K(ANT6)

Transmitter Conducted Output Power and EIRP, (G_T - L_C)=0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.27	26.27	0.4236
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.32	25.32	0.3404
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.05	26.05	0.4027
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.13	25.13	0.3258
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@1	25.79	25.79	0.3793
78	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@1	24.86	24.86	0.3062
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.32	26.32	0.4285
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.36	25.36	0.3436
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.98	25.98	0.3963
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.04	25.04	0.3192
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.82	25.82	0.3819
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.88	24.88	0.3076
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@1	26.34	26.34	0.4305
78	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	1@1	25.39	25.39	0.3459
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.92	25.92	0.3908
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.97	24.97	0.3141
78	15	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.92	25.92	0.3908
78	15	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.94	24.94	0.3119
78	15	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	26.28	26.28	0.4246
78	15	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	25.31	25.31	0.3396
78	15	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.69	25.69	0.3707
78	15	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.74	24.74	0.2979
78	15	25	635833	3537.495	DFT-s-OFDM QPSK	1@1	25.98	25.98	0.3963
78	15	25	635833	3537.495	DFT-s-OFDM 16 QAM	1@1	25.03	25.03	0.3184
78	15	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.34	26.34	0.4305
78	15	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.38	25.38	0.3451
78	15	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.62	25.62	0.3648
78	15	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.67	24.67	0.2931
78	15	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.22	26.22	0.4188
78	15	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.24	25.24	0.3342

78	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.3	26.3	0.4266
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.36	25.36	0.3436
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.5	25.5	0.3548
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.66	24.66	0.2924
78	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@1	26.42	26.42	0.4385
78	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@1	25.49	25.49	0.3540
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	135@67	25.63	25.63	0.3656
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@1	26.32	26.32	0.4285
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@268	26.03	26.03	0.4009
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	135@67	25.67	25.67	0.3690
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@1	26.45	26.45	0.4416
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@268	26.16	26.16	0.4130
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	135@67	24.72	24.72	0.2965
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@1	25.48	25.48	0.3532
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@268	25.28	25.28	0.3373
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	135@67	23.27	23.27	0.2123
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@1	23.7	23.7	0.2344
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@268	23.41	23.41	0.2193
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	135@67	21.31	21.31	0.1352
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@1	21.8	21.8	0.1514
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@268	21.51	21.51	0.1416
78	15	50	631667	3475.005	CP-OFDM QPSK	135@67	24.19	24.19	0.2624
78	15	50	631667	3475.005	CP-OFDM QPSK	1@1	24.87	24.87	0.3069
78	15	50	631667	3475.005	CP-OFDM QPSK	1@268	24.6	24.6	0.2884
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.18	26.18	0.4150
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.53	25.53	0.3573
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@268	25.9	25.9	0.3890
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.2	26.2	0.4169
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.66	25.66	0.3681
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@268	26.03	26.03	0.4009
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.25	25.25	0.3350
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.71	24.71	0.2958
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@268	25.15	25.15	0.3273
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.77	23.77	0.2382
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.89	22.89	0.1945
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@268	23.26	23.26	0.2118

78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.79	21.79	0.1510
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.02	21.02	0.1265
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@268	21.35	21.35	0.1365
78	15	50	633334	3500.01	CP-OFDM QPSK	135@67	24.75	24.75	0.2985
78	15	50	633334	3500.01	CP-OFDM QPSK	1@1	24.02	24.02	0.2523
78	15	50	633334	3500.01	CP-OFDM QPSK	1@268	24.47	24.47	0.2799
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	135@67	26.06	26.06	0.4036
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	26.27	26.27	0.4236
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@268	25.9	25.9	0.3890
78	15	50	635000	3525	DFT-s-OFDM QPSK	135@67	26.11	26.11	0.4083
78	15	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.45	26.45	0.4416
78	15	50	635000	3525	DFT-s-OFDM QPSK	1@268	26.04	26.04	0.4018
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	135@67	25.17	25.17	0.3289
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.45	25.45	0.3508
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@268	25.06	25.06	0.3206
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	135@67	23.63	23.63	0.2307
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23.6	23.6	0.2291
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@268	23.32	23.32	0.2148
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	135@67	21.66	21.66	0.1466
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	21.8	21.8	0.1514
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@268	21.39	21.39	0.1377
78	15	50	635000	3525	CP-OFDM QPSK	135@67	24.63	24.63	0.2904
78	15	50	635000	3525	CP-OFDM QPSK	1@1	24.87	24.87	0.3069
78	15	50	635000	3525	CP-OFDM QPSK	1@268	24.5	24.5	0.2818

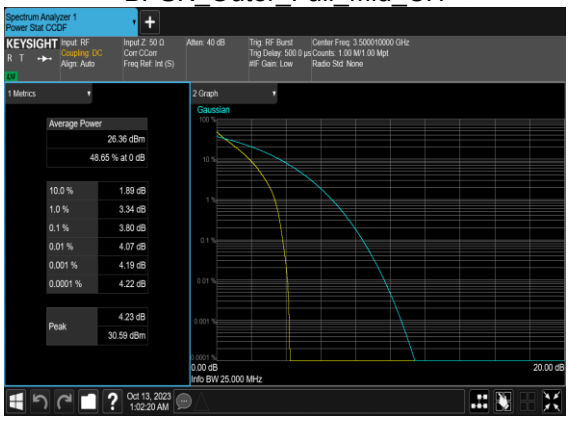
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0033	**PASS**	NV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0037	**PASS**	LV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0059	**PASS**	HV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0060	**PASS**	-30℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0049	**PASS**	-20℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0045	**PASS**	-10℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0025	**PASS**	0℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0041	**PASS**	10℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0033	**PASS**	20℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0029	**PASS**	30℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0025	**PASS**	40℃
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0032	**PASS**	50℃

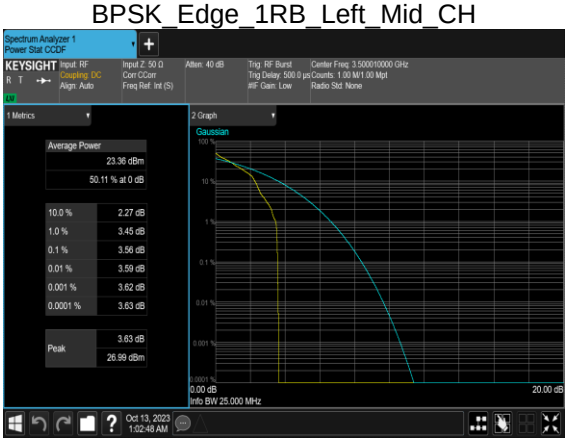
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	3.8	13	**PASS**
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	3.56	13	**PASS**
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	4.93	13	**PASS**
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	4.97	13	**PASS**

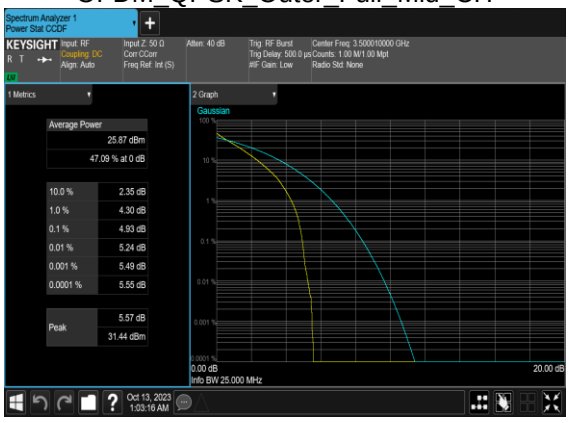
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



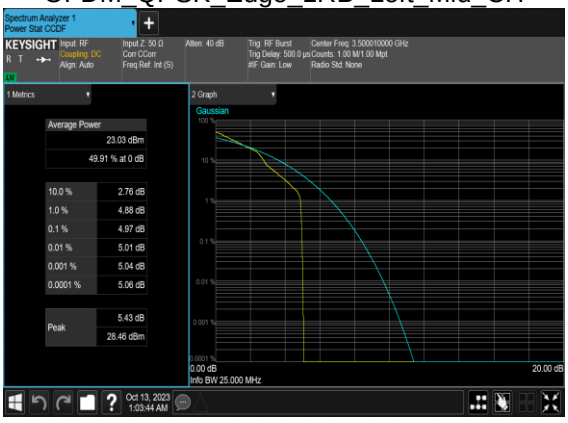
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



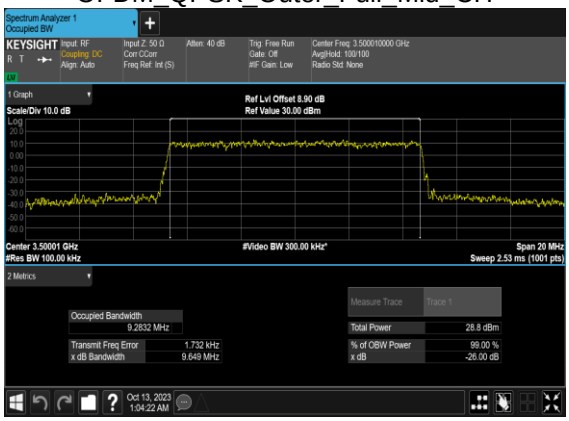
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



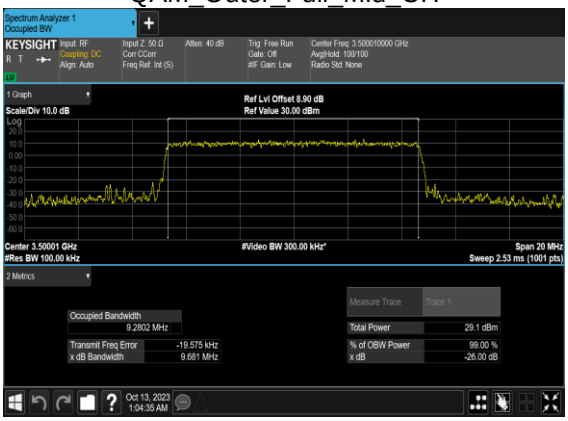
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	15	10	633334	3500.01	CP-OFDM QPSK	52@0	9.2832	9.649
78	15	10	633334	3500.01	CP-OFDM 16 QAM	52@0	9.2802	9.681
78	15	10	633334	3500.01	CP-OFDM 64 QAM	52@0	9.3076	9.67
78	15	10	633334	3500.01	CP-OFDM 256 QAM	52@0	9.2755	9.733
78	15	15	633334	3500.01	CP-OFDM QPSK	79@0	14.085	14.69
78	15	15	633334	3500.01	CP-OFDM 16 QAM	79@0	14.111	14.68
78	15	15	633334	3500.01	CP-OFDM 64 QAM	79@0	14.122	14.6
78	15	15	633334	3500.01	CP-OFDM 256 QAM	79@0	14.108	14.65
78	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.943	19.53
78	15	20	633334	3500.01	CP-OFDM 16 QAM	106@0	18.922	19.7
78	15	20	633334	3500.01	CP-OFDM 64 QAM	106@0	18.888	19.58
78	15	20	633334	3500.01	CP-OFDM 256 QAM	106@0	18.808	19.67
78	15	25	633334	3500.01	CP-OFDM QPSK	133@0	23.742	24.5
78	15	25	633334	3500.01	CP-OFDM 16 QAM	133@0	23.694	24.52
78	15	25	633334	3500.01	CP-OFDM 64 QAM	133@0	23.727	24.55
78	15	25	633334	3500.01	CP-OFDM 256 QAM	133@0	23.811	24.56
78	15	30	633334	3500.01	CP-OFDM QPSK	160@0	28.661	29.58
78	15	30	633334	3500.01	CP-OFDM 16 QAM	160@0	28.474	29.5
78	15	30	633334	3500.01	CP-OFDM 64 QAM	160@0	28.554	29.52
78	15	30	633334	3500.01	CP-OFDM 256 QAM	160@0	28.577	29.63
78	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.477	39.84
78	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.544	39.87
78	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.463	39.81
78	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.699	39.91
78	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.267	49.79
78	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.202	49.69
78	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.092	49.74
78	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.146	49.69

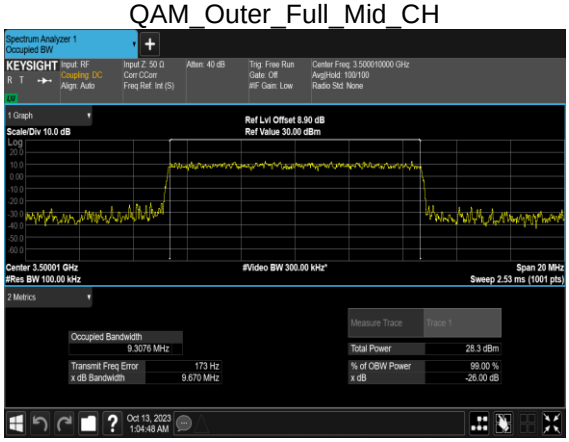
N78(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



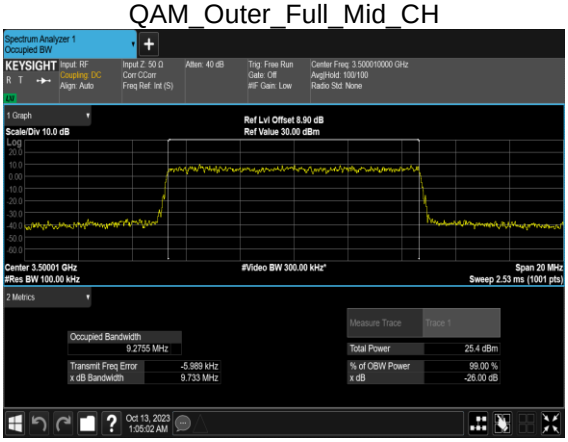
N78(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



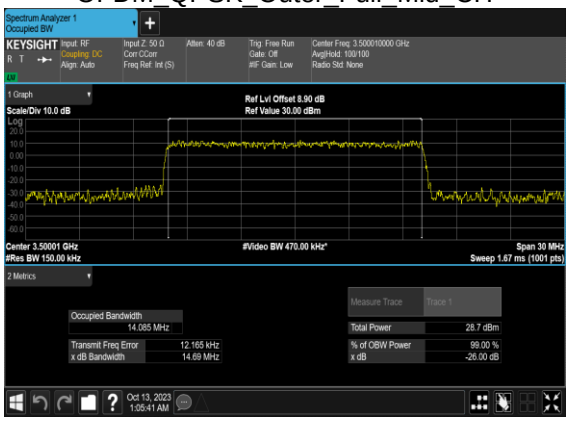
N78(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



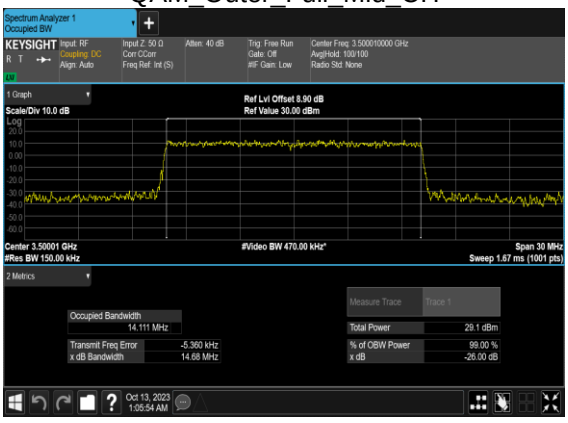
N78(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



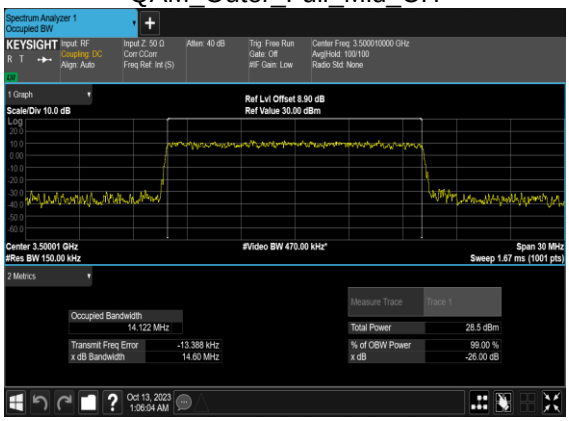
N78(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



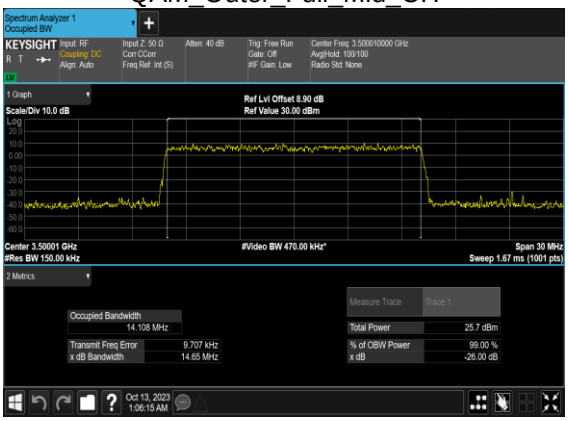
N78(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



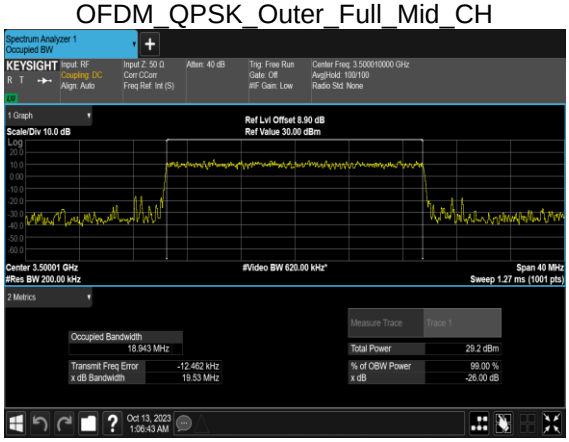
N78(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



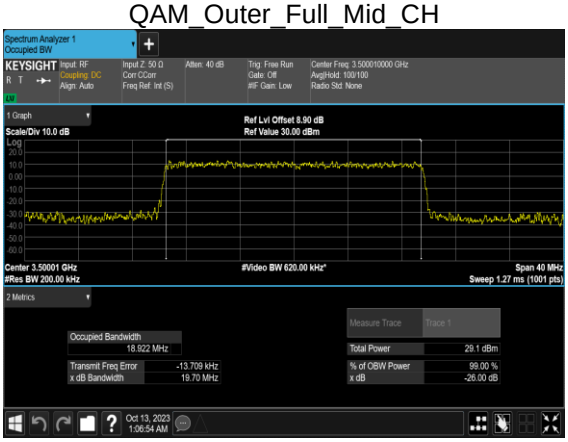
N78(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



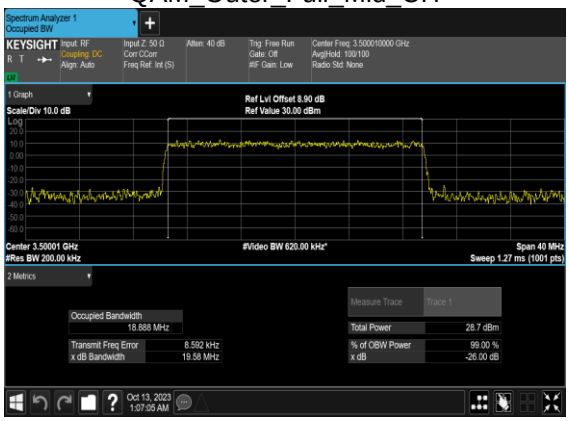
N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



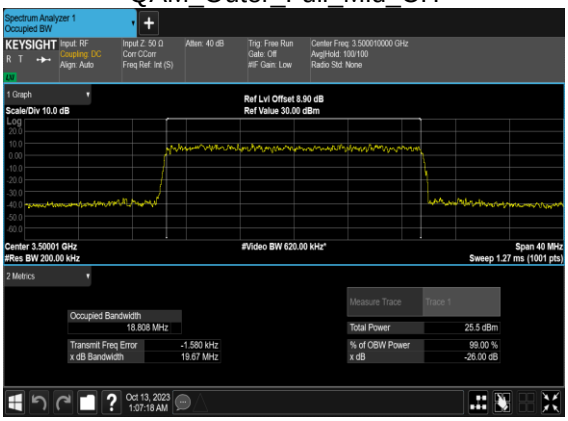
N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



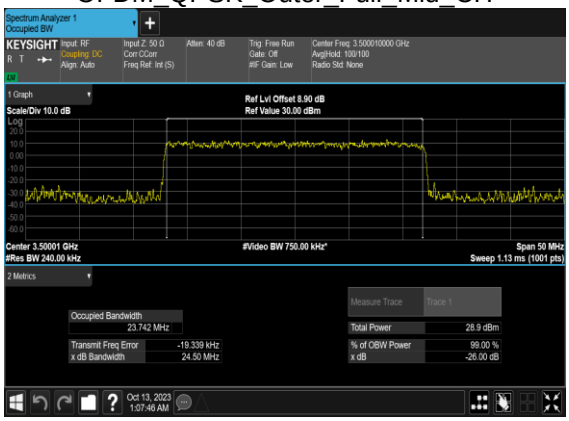
N78(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



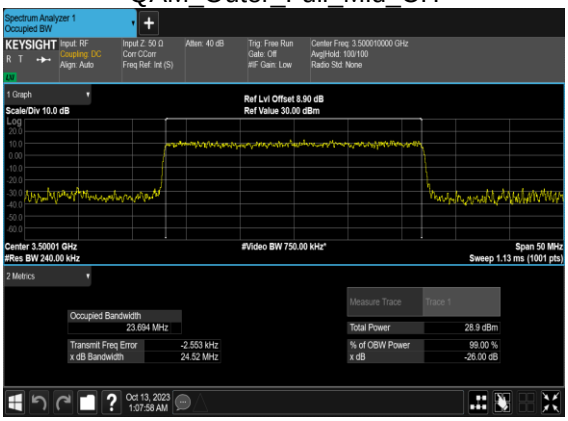
N78(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



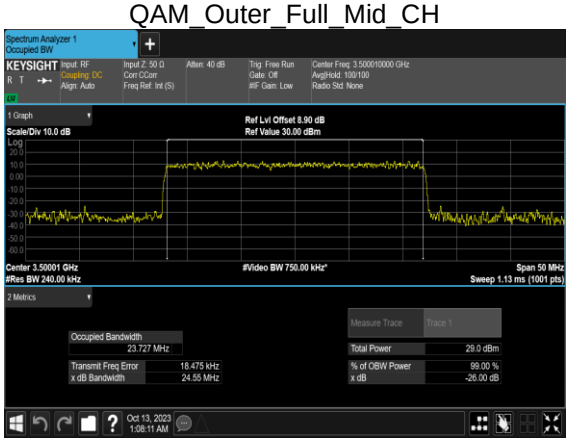
N78(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



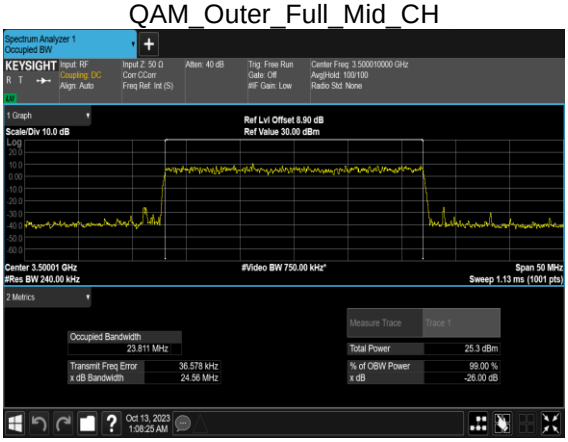
N78(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



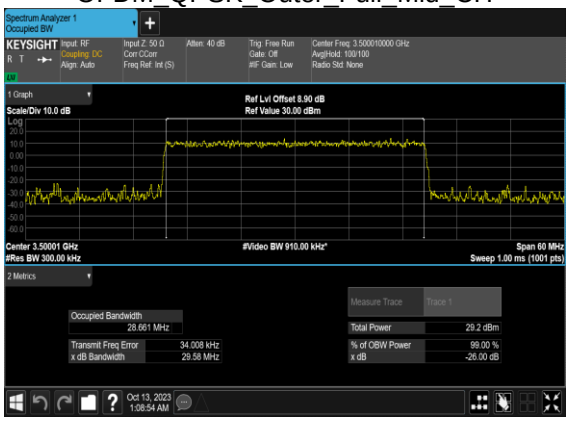
N78(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



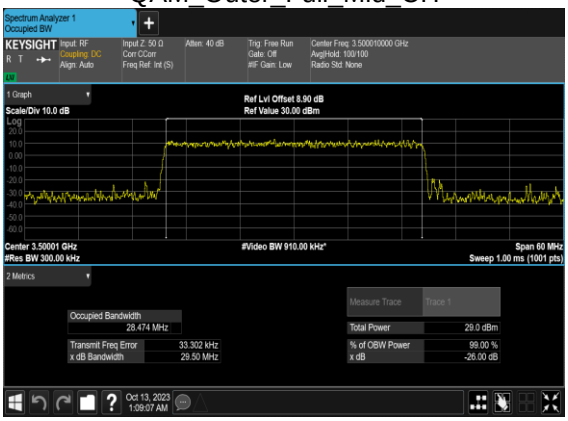
N78(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



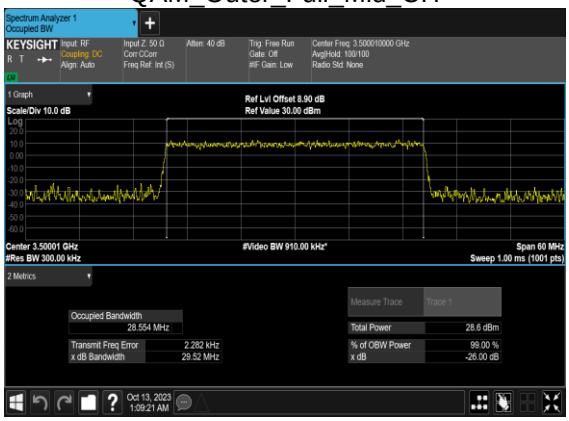
N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



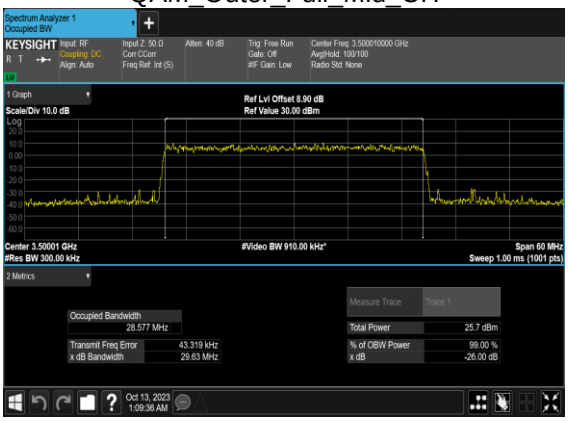
N78(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



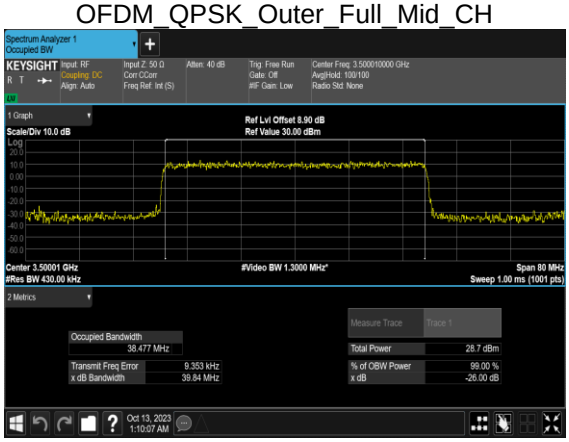
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



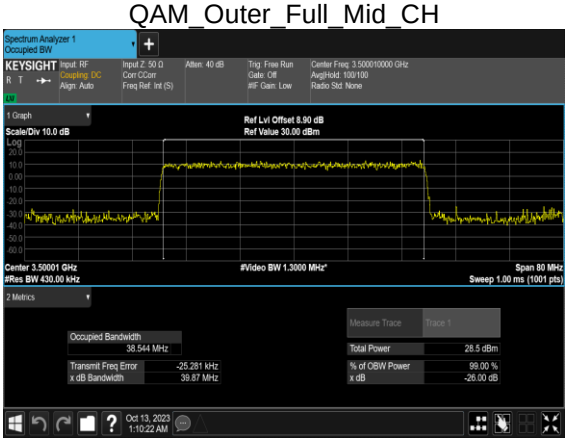
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



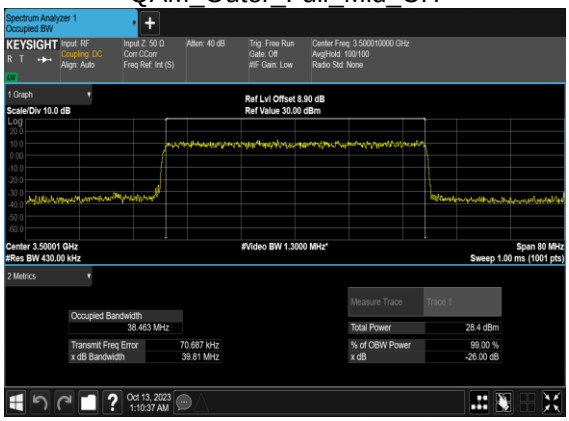
N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



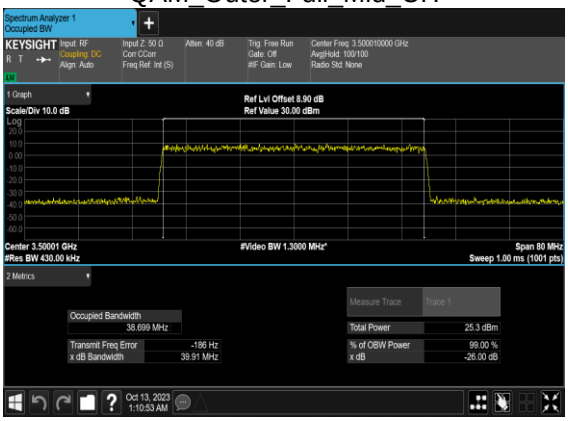
N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



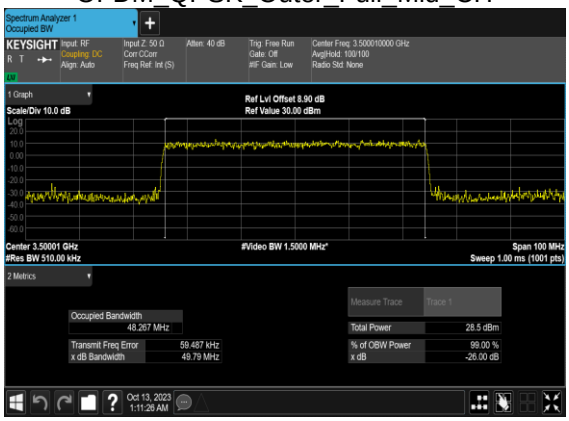
N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



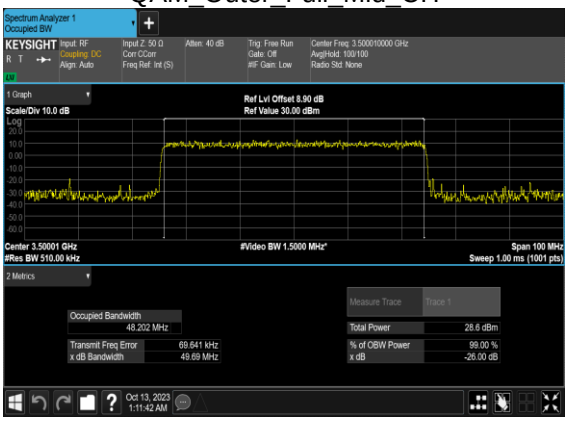
N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



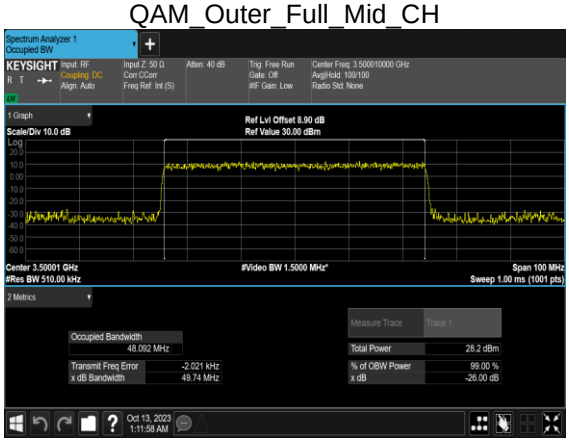
N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



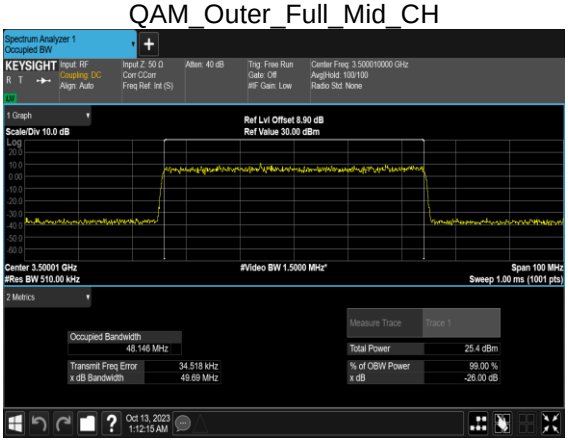
N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



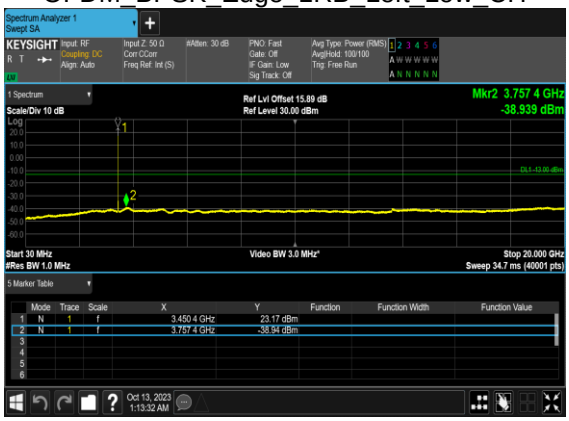
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	25	630834	3462.51	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM QPSK	1@0	see graph	**---**

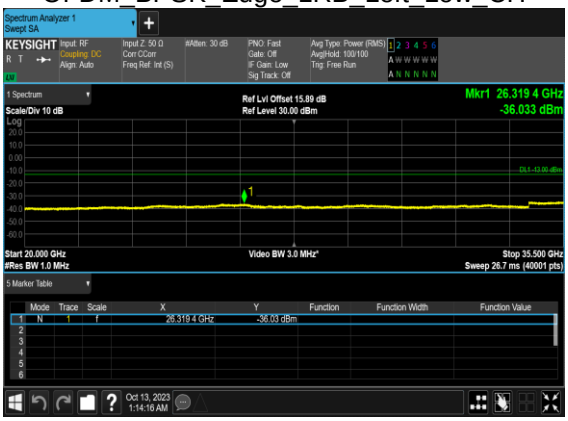
78	15	25	630834	3462.51	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	25	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	25	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	25	635833	3537.495	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	25	635833	3537.495	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**

78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

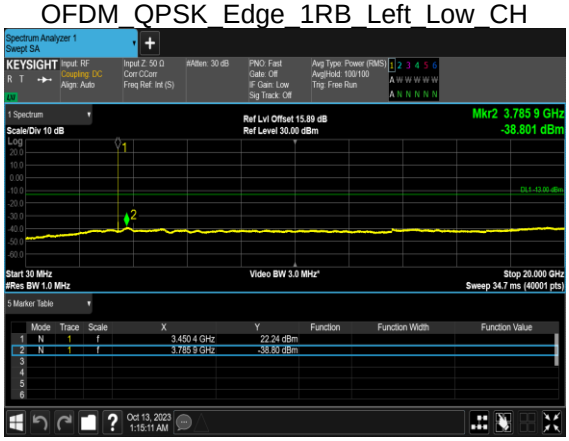
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



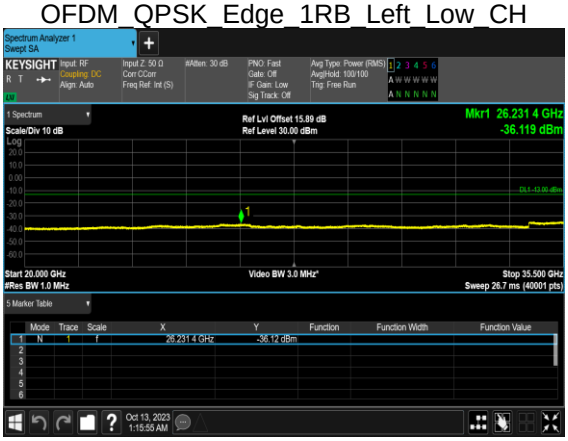
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



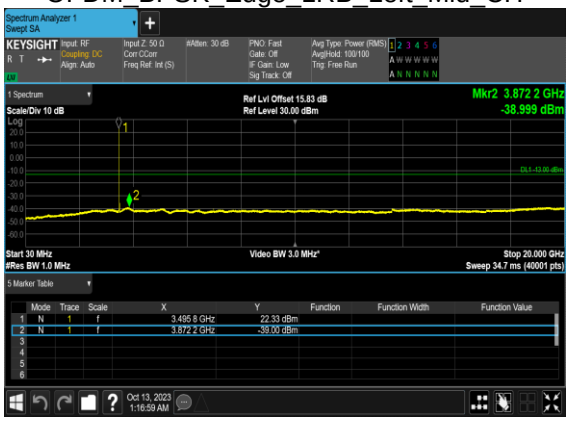
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



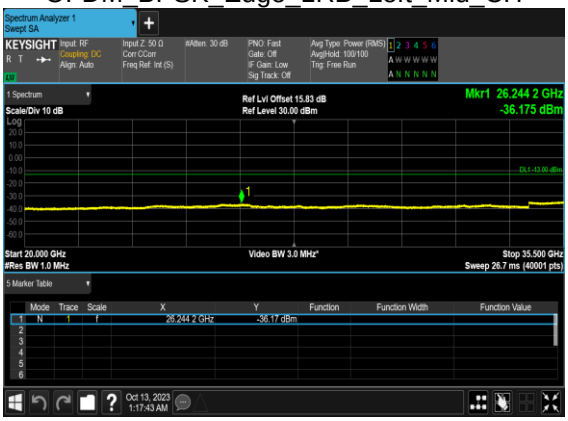
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



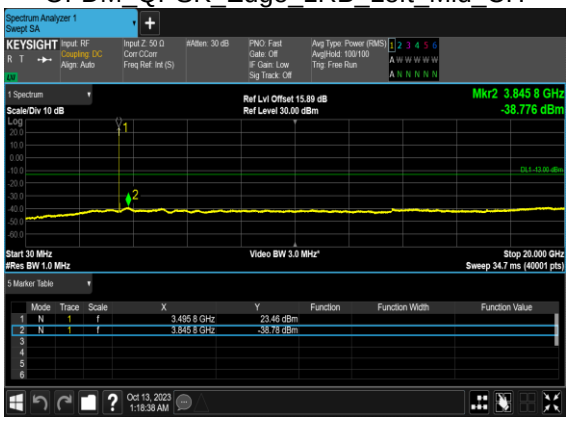
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



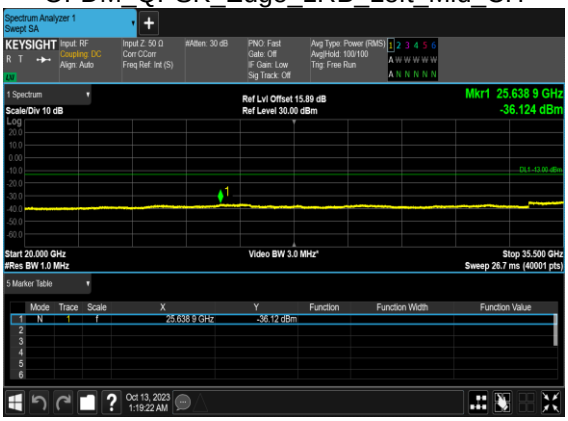
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



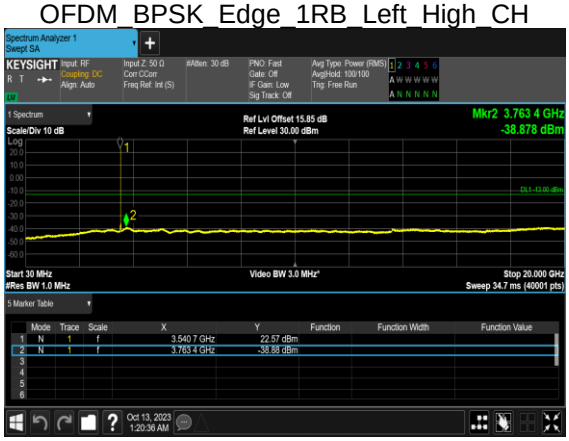
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



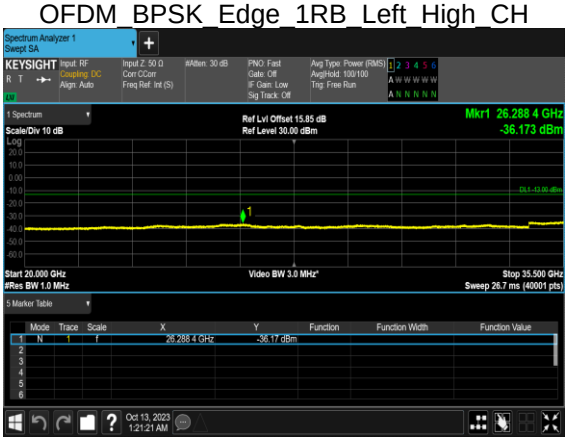
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



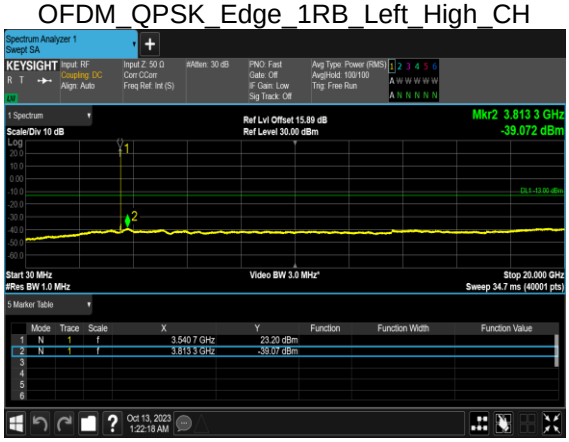
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



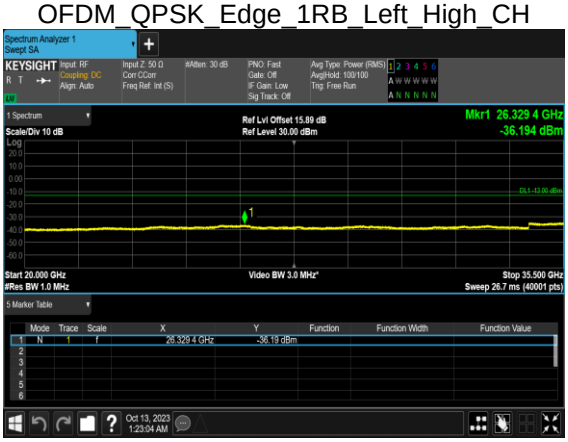
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



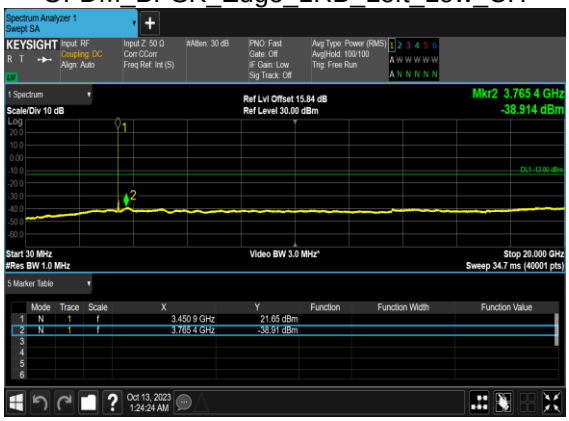
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



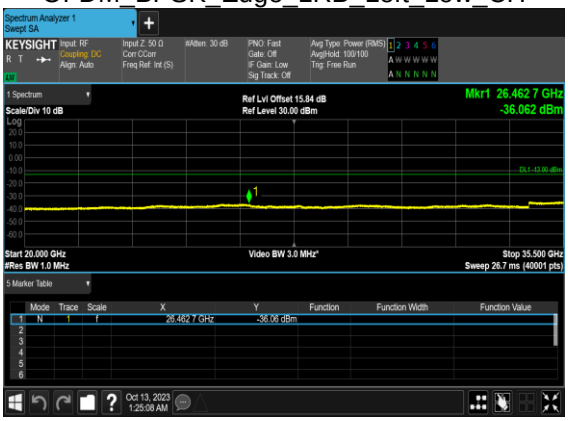
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



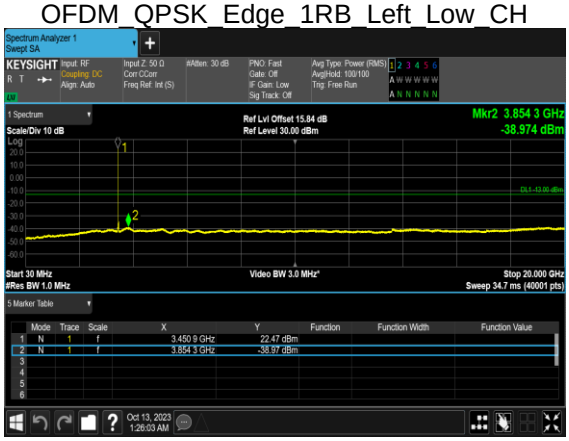
N78(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



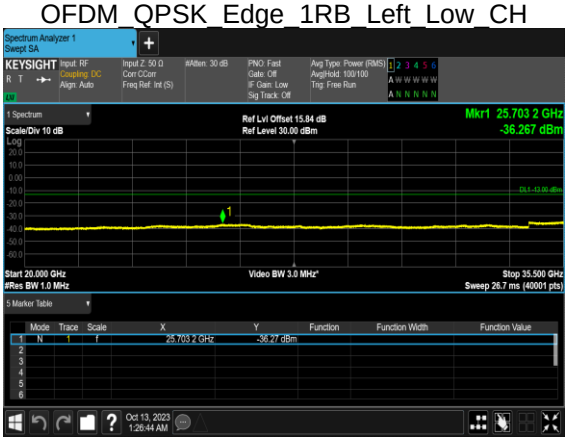
N78(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



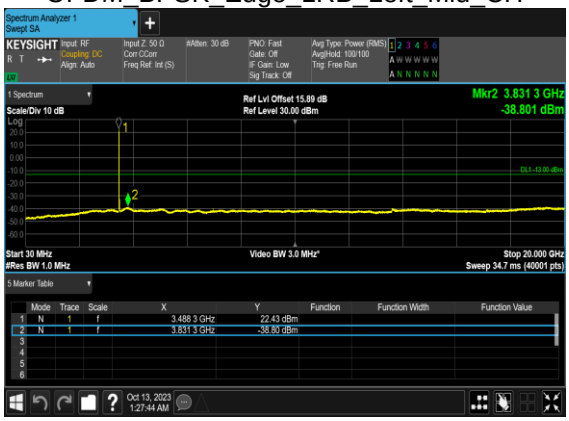
N78(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



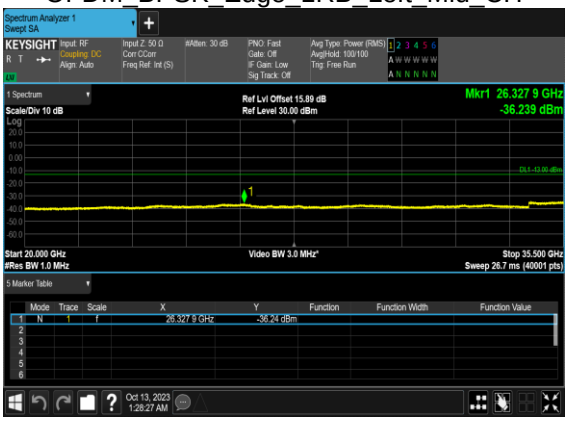
N78(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

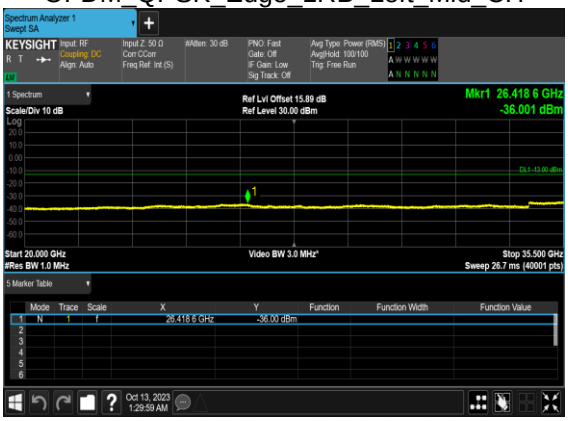


N78(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

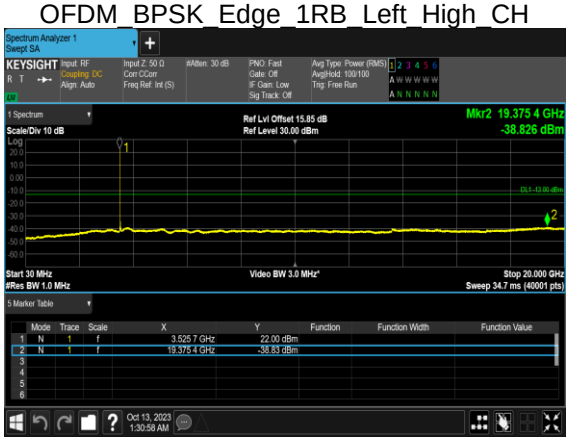


N78(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

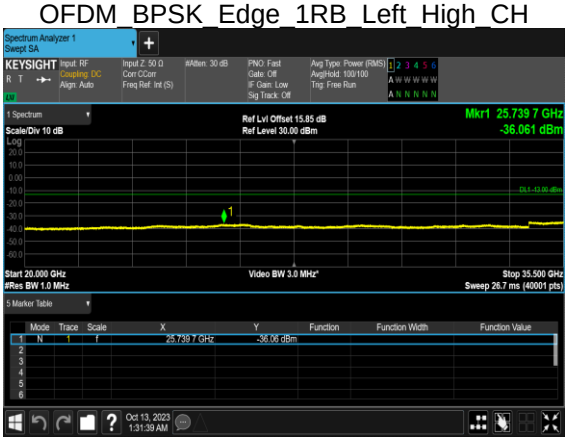
N78(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



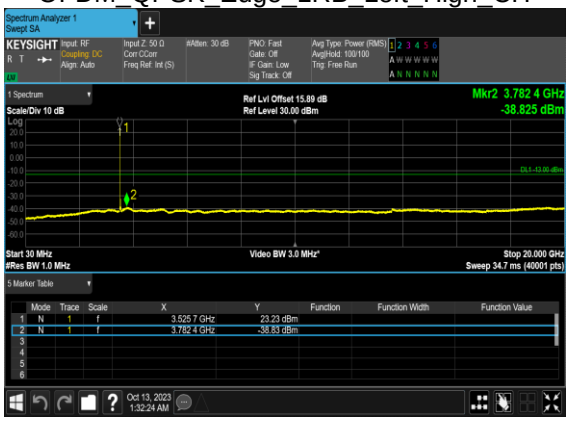
N78(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



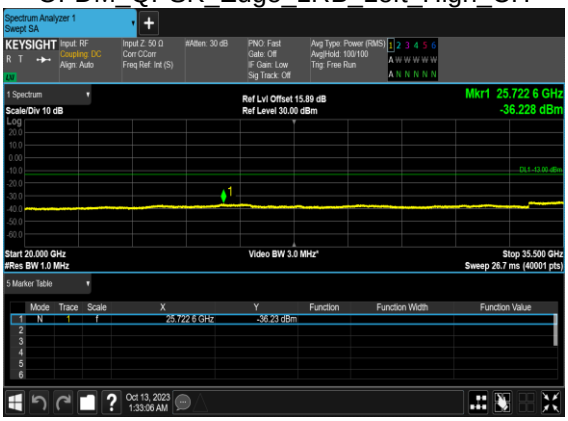
N78(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



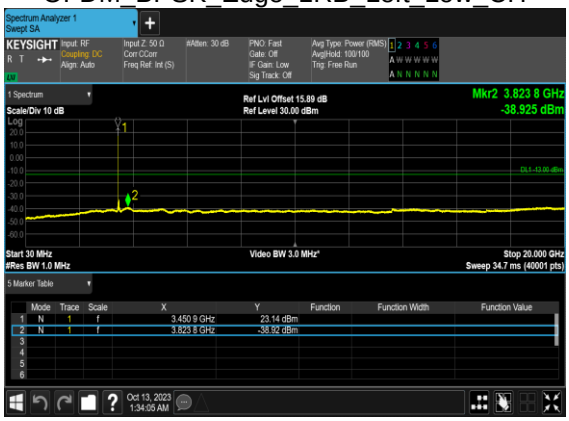
N78(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



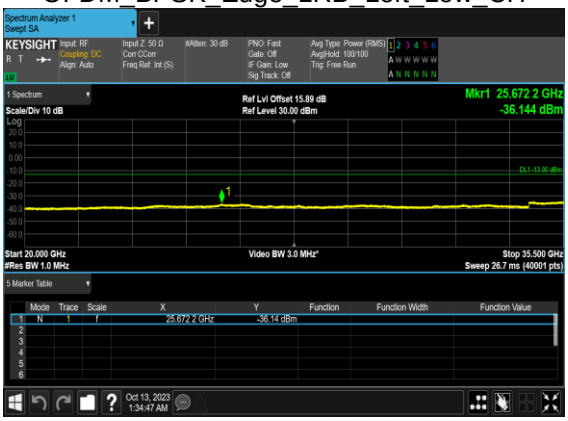
N78(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



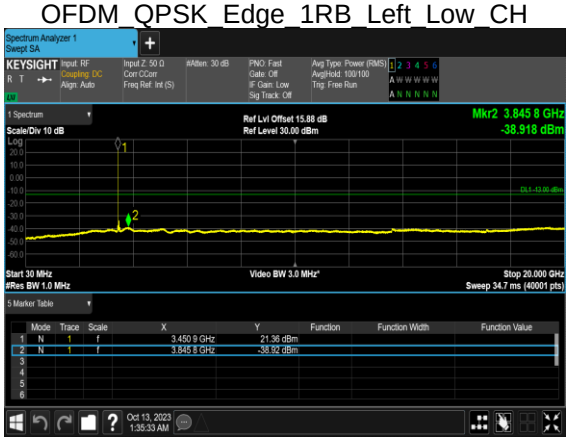
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



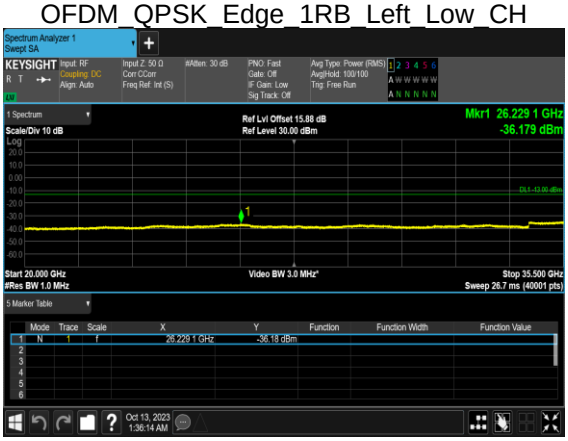
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



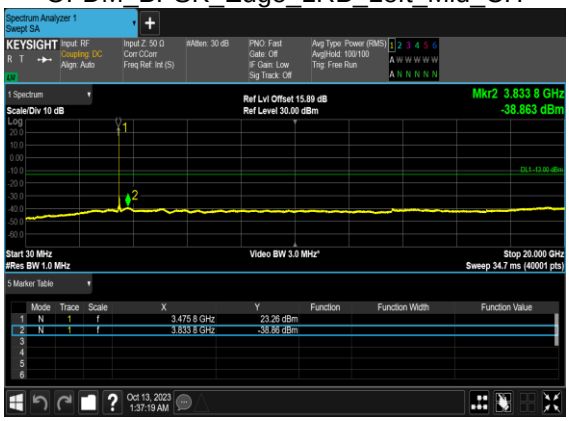
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



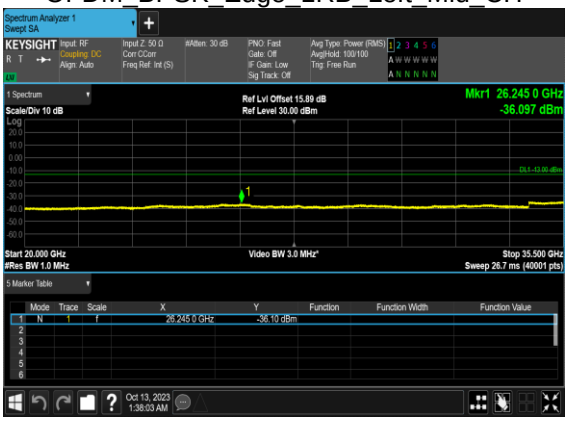
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



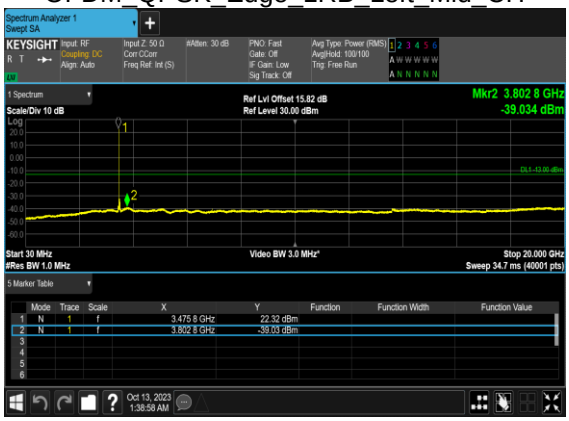
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



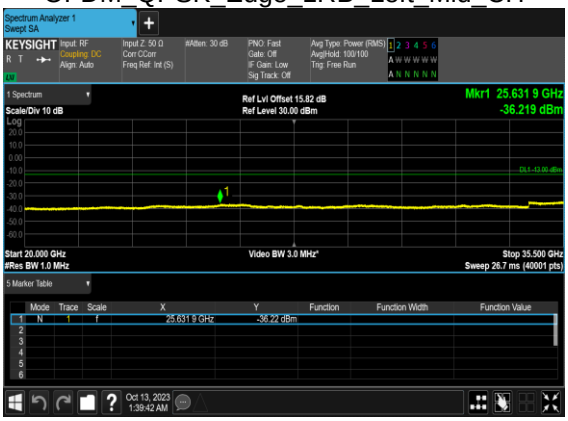
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



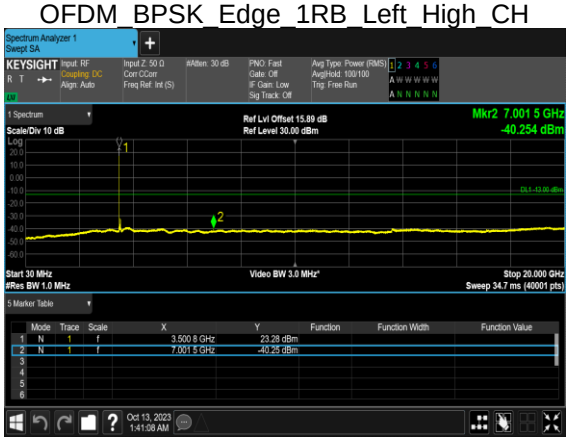
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



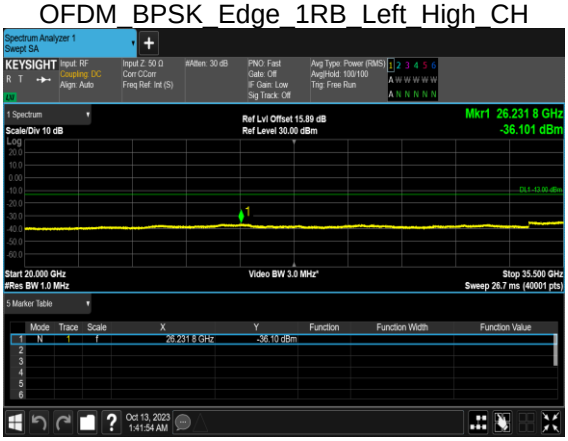
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



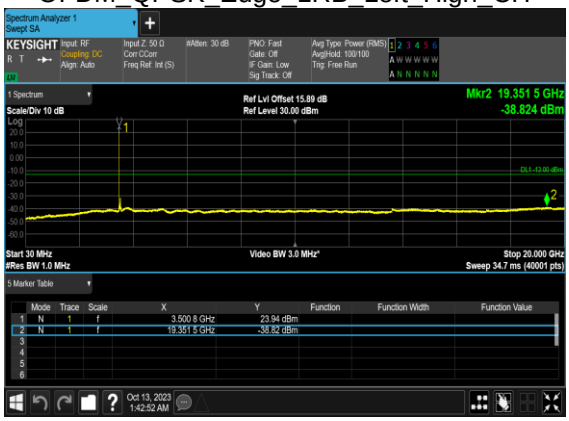
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



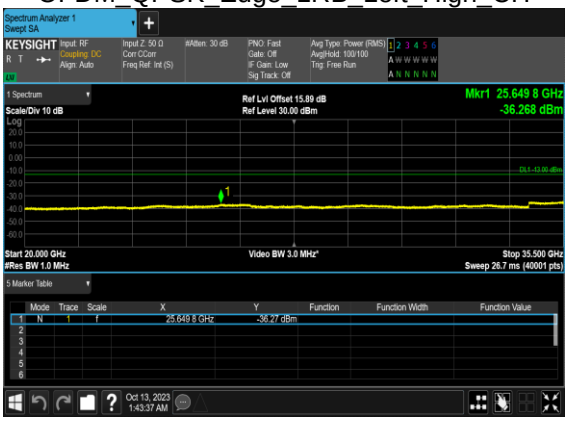
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



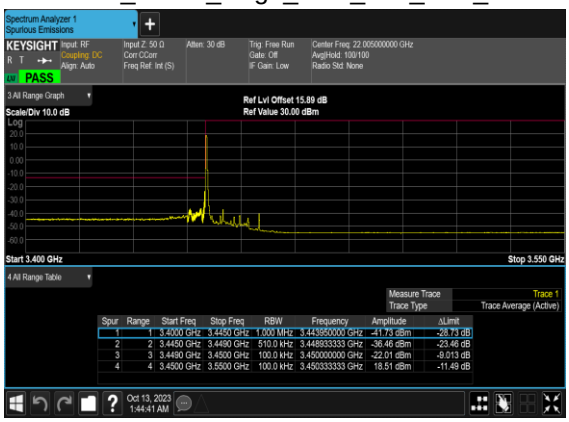
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



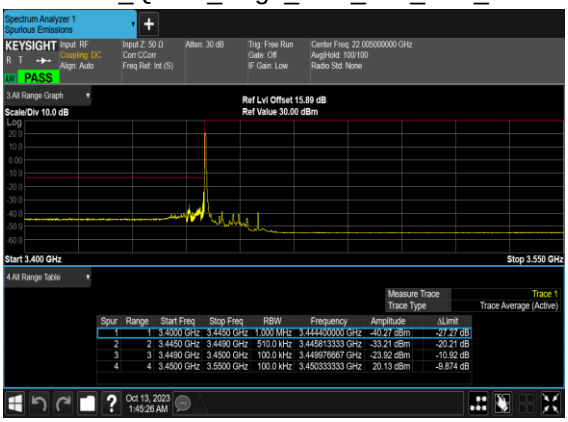
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	15	25	630834	3462.51	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	15	25	635833	3537.495	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	270@0	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@269	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@269	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

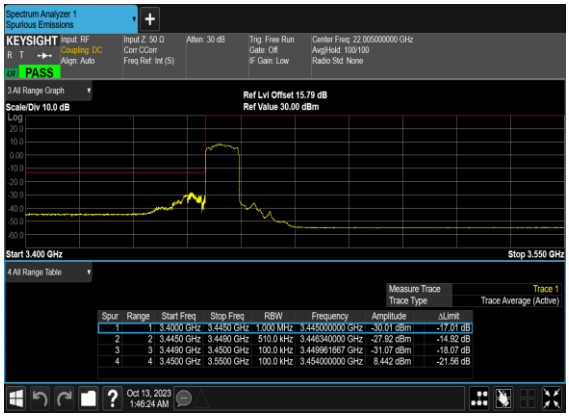
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



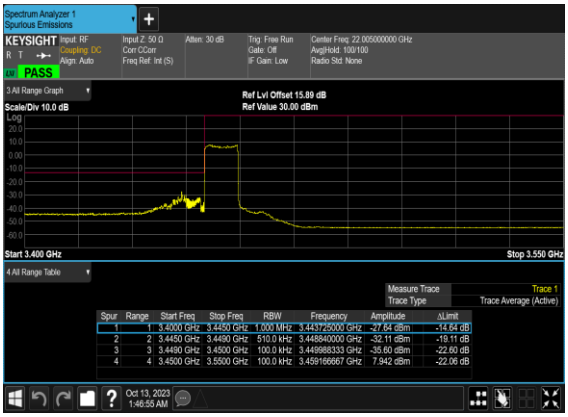
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



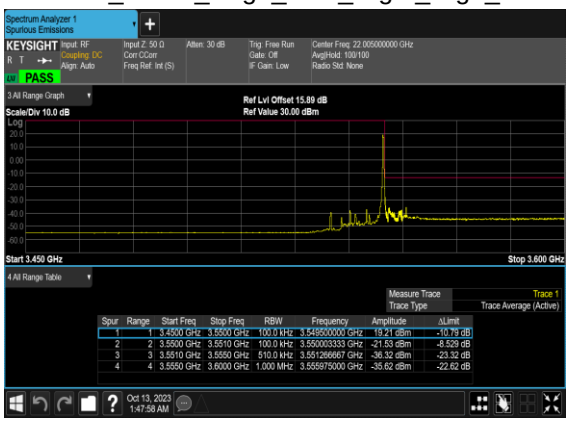
N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH