FCC RF Test Report

APPLICANT	: Xiaomi Communications Co., Ltd.
EQUIPMENT	: Mobile Phone
BRAND NAME	: Xiaomi
MODEL NAME	: 25010PN30G
FCC ID	: 2AFZZPN30G
STANDARD	: 47 CFR Part 96
CLASSIFICATION	: Citizens Band End User Devices (CBE)
EQUIPMENT TYPE	: End User Equipment
TEST DATE(S)	: Nov. 15, 2024 ~ Nov. 27, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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Appendix B. Test Results of Radiated Test

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History of this test report

Report No.	Version	Description	Issued Date
FG4O2501M	01	Initial issue of report	Dec. 12, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.4	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 19.26 dB at 14425.00 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 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	25010PN30G
FCC ID	2AFZZPN30G
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Bandwidth	10MHz / 15MHz / 20MHz / 30MHz / 40MHz
Antenna Gain	<Ant. 4> 5G NR n48: -2.2 dBi <Ant. 5> 5G NR n48: -3.2 dBi <Ant. 6> 5G NR n48: -1.0 dBi <Ant. 10> 5G NR n48: -3.5 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)
IMEI Code	Conducted : 869203070050067/869203070050281 Radiation : 869203070052501
HW Version	1353000O1
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP of Ant. 4 is shown in the report.
3. The device supports two PAs for 5G NR n48(main PA and other PA), only the worst EIRP results are shown in the report.
4. 5G NR n48 supports SA mode only.

1.4 Maximum EIRP Power and Emission Designator

5G NR n48		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	**3555.00~3694.98**	0.1253	8M60G7D	0.1159	8M58W7D
15	**3557.52~3692.50**	0.1250	13M6G7D	0.1079	13M6W7D
20	**3560.01~3690.00**	0.1259	18M2G7D	0.1089	18M3W7D
30	**3565.02 ~ 3684.99**	0.1250	27M9G7D	0.1042	27M9W7D
40	**3570.00~3679.98**	0.1265	37M8G7D	0.0927	37M9W7D

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

1.5 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS	CN1257	314309

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 data subcontracted: Conducted test case in section 3 of this report.

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26-2015
- 47 CFR Part 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS v03
- 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

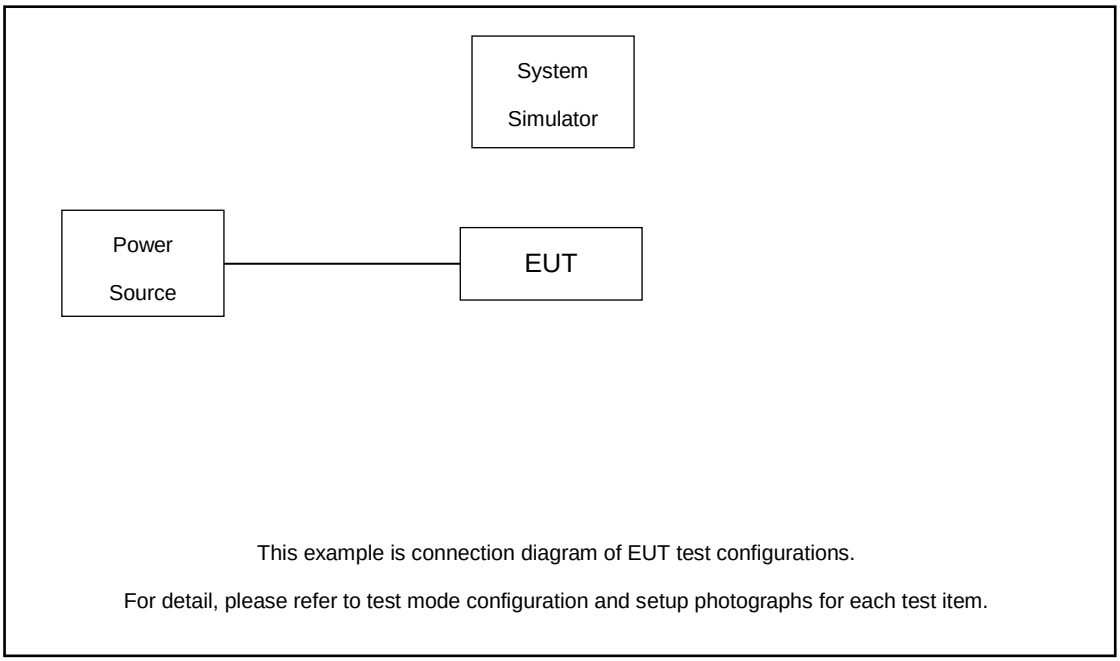
2.1 Test Mode

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.

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

Test Items	Band	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n48	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	n48	-	v	v	v	v	v		v	v	v	v		v		v	
Adjacent Channel Leakage Ratio	n48	-	v		v		v	v	v				v	v	v	v	v
Conducted Band Edge	n48	-	v		v		v	v	v				v	v	v	v	v
Conducted Spurious Emission	n48	-	v		v		v	v	v				v		v	v	v
E.R.I.P	n48	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	n48	-			v				v					v		v	
Radiated Spurious Emission	n48	Worst Case														v	
Remark	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All test items are based on engineering evaluation. 5. Frequency Stability：Normal Voltage = 3.69V ；Low Voltage =3.30V；High Voltage =4.10V																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss .

Offset = RF cable loss.

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

Example :

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

= 8.9 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637668	641666	645666
	Frequency	3565.02	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

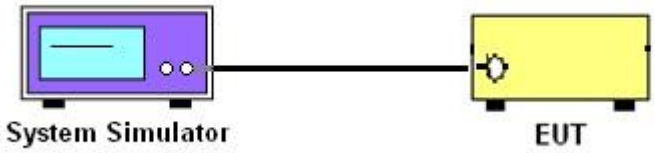
3 Conducted Test Items

3.1 Measuring Instruments

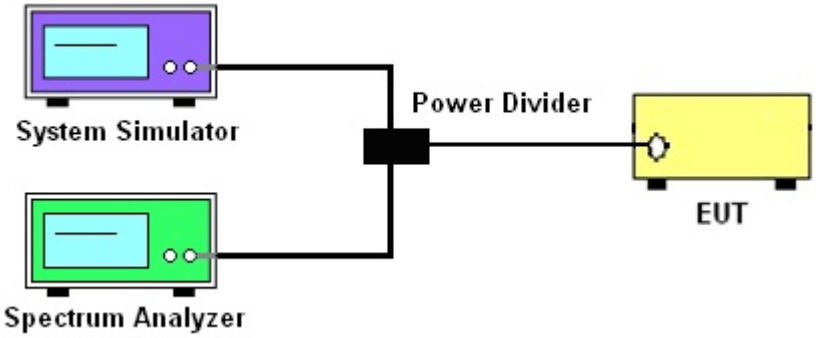
See list of measuring instruments of this test report.

3.2 Test Setup

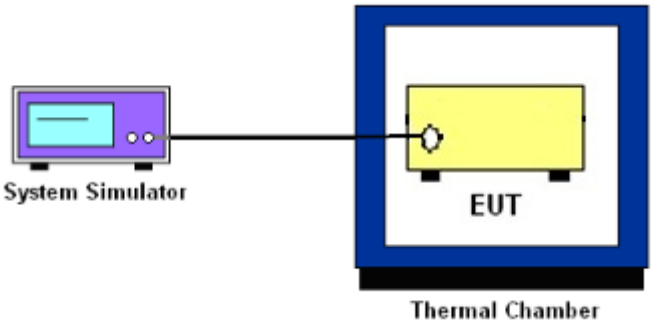
3.2.1 Conducted Output Power / ACLR



3.2.2 6dB & 99% Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.2.4 Test Result of Conducted Test

Please refer to Appendix A.

3.3 Conducted Output Power

3.3.1 Description of the Conducted Output Power Measurement

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

3.3.2 Test Procedures

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

3.4 EIRP

3.4.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Applied	**End User Device**	23	n/a
☐	**Category A CBSD**	30	20
☐	**Category B CBSD**	47	37

Remark:

1. The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz)

3.4.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)

2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

   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

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (ii)

For End User Devices the emission limits outside the fundamental are as follows:

Within 0 MHz to B MHz above and below the assigned channel ≤ −13 dBm/MHz

Greater than B MHz above and below the assigned channel ≤ −25 dBm/MHz

where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

Part 96.41 (e) (2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
5. Offset has included the duty factor for LTE Band 48. Duty factor =10 log (1/x), where x is the measured duty cycle.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is −40dBm/MHz.

3.8 Frequency Stability

3.8.1 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.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

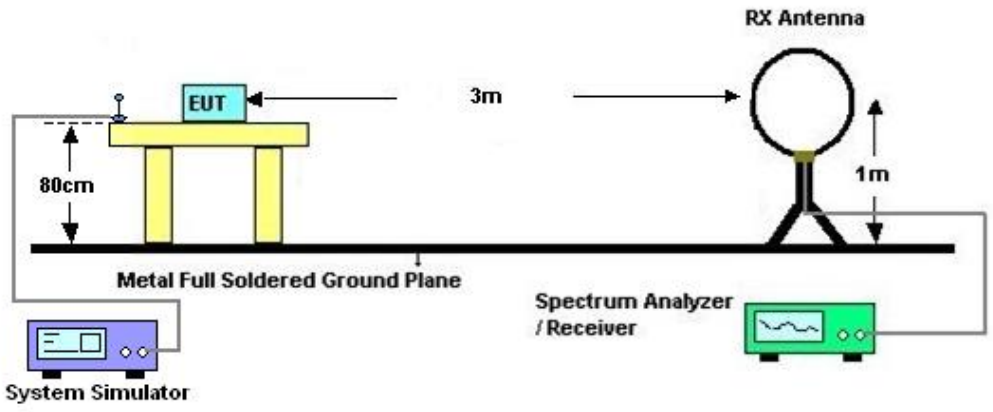
4 Radiated Test Items

4.1 Measuring Instruments

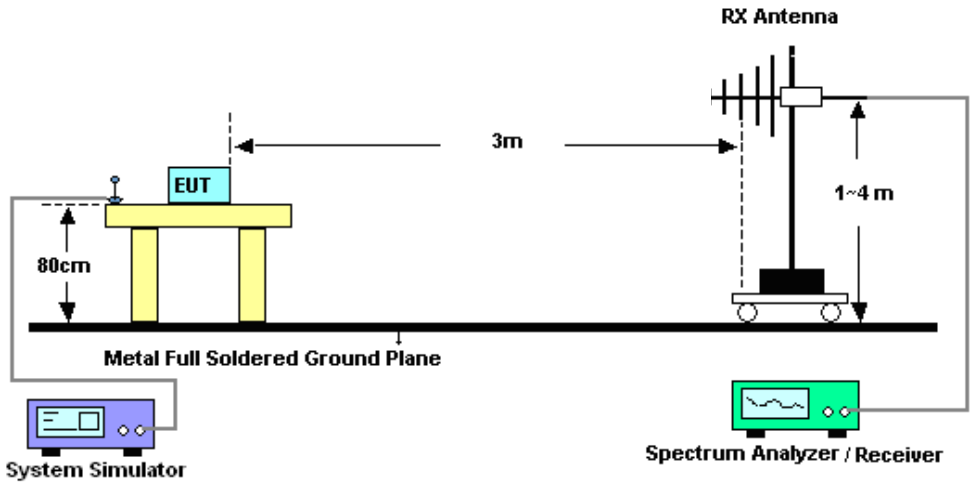
See list of measuring instruments of this test report.

4.2 Test Setup

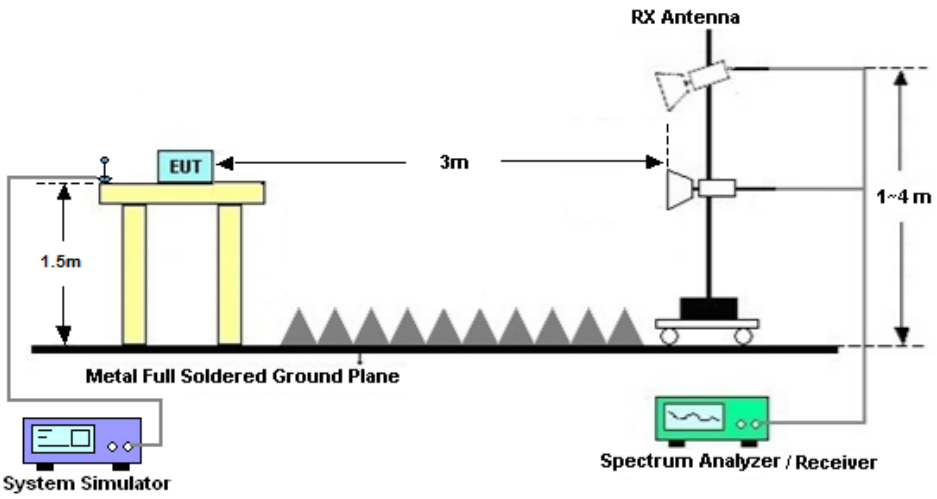
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz.

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

4.4.2 Test Procedures

1. 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.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
   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
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
   The limit line is −40dBm/MHz

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	Nov. 15, 2024~ Nov. 27, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 15, 2024	Nov. 15, 2024~ Nov. 27, 2024	Oct. 14, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	Nov. 15, 2024~ Nov. 27, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Nov. 15, 2024~ Nov. 27, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2024	Nov. 23, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Nov. 23, 2024	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 06, 2023	Nov. 23, 2024	Dec. 05, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Nov. 23, 2024	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Nov. 23, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Nov. 23, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Nov. 23, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 09, 2024	Nov. 23, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 09, 2024	Nov. 23, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 23, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 23, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 23, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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
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))	2.83 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.82 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 N48 ANT4 (Other PA)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-2.2dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
48	30	10	637000	3555	DFT-s-OFDM QPSK	12@6	23.11	20.91	0.1233
48	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	23.07	20.87	0.1222
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	12@6	22.81	20.61	0.1151
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	22.84	20.64	0.1159
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	12@6	23.13	20.93	0.1239
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	23.18	20.98	0.1253
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	12@6	22.36	20.16	0.1038
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	22.4	20.2	0.1047
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	12@6	23.16	20.96	0.1247
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	23.11	20.91	0.1233
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	12@6	22.31	20.11	0.1026
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	22.33	20.13	0.1030
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	18@9	23.11	20.91	0.1233
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	20.69	18.49	0.0706
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	18@9	22.53	20.33	0.1079
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	19.78	17.58	0.0573
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	18@9	23.1	20.9	0.1230
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	23.17	20.97	0.1250
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	18@9	22.23	20.03	0.1007
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	22.42	20.22	0.1052
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	18@9	23.1	20.9	0.1230
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	23.13	20.93	0.1239
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	18@9	22.17	19.97	0.0993
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	22.34	20.14	0.1033
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	25@12	23.13	20.93	0.1239
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	20.72	18.52	0.0711
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	25@12	22.57	20.37	0.1089
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	19.74	17.54	0.0568
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	25@12	23.12	20.92	0.1236
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	23.14	20.94	0.1242
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	25@12	22.31	20.11	0.1026
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	22.53	20.33	0.1079
48	30	20	646000	3690	DFT-s-OFDM QPSK	25@12	23.11	20.91	0.1233

48	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	23.2	21	0.1259
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	25@12	22.24	20.04	0.1009
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	22.35	20.15	0.1035
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	36@18	14.36	12.16	0.0164
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	14.53	12.33	0.0171
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	36@18	13.88	11.68	0.0147
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	14.08	11.88	0.0154
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	36@18	23.11	20.91	0.1233
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.68	18.48	0.0705
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	36@18	22.38	20.18	0.1042
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	20.7	18.5	0.0708
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	36@18	23.17	20.97	0.1250
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	13.92	11.72	0.0149
48	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	36@18	22.29	20.09	0.1021
48	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	13.53	11.33	0.0136
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	50@25	13.58	11.38	0.0137
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	13.52	11.32	0.0136
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@104	13.31	11.11	0.0129
48	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	13.49	11.29	0.0135
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	13.42	11.22	0.0132
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	13.22	11.02	0.0126
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	13.01	10.81	0.0121
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	13.07	10.87	0.0122
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	12.82	10.62	0.0115
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	50@25	13.02	10.82	0.0121
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	12.88	10.68	0.0117
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@104	12.69	10.49	0.0112
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	50@25	12.84	10.64	0.0116
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	12.83	10.63	0.0116
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@104	12.59	10.39	0.0109
48	30	40	638000	3570	CP-OFDM QPSK	53@26	12.62	10.42	0.0110
48	30	40	638000	3570	CP-OFDM QPSK	1@1	12.71	10.51	0.0112
48	30	40	638000	3570	CP-OFDM QPSK	1@104	12.47	10.27	0.0106
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	23.22	21.02	0.1265
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	20.02	17.82	0.0605
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	19.91	17.71	0.0590
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	22.97	20.77	0.1194
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.98	17.78	0.0600
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	19.73	17.53	0.0566
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	21.87	19.67	0.0927

48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.94	17.74	0.0594
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	19.7	17.5	0.0562
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	20.42	18.22	0.0664
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	20	17.8	0.0603
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	19.75	17.55	0.0569
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	18.4	16.2	0.0417
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.25	16.05	0.0403
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	18.18	15.98	0.0396
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	21.45	19.25	0.0841
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	19.96	17.76	0.0597
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	19.85	17.65	0.0582
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	50@25	13.44	11.24	0.0133
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	13.33	11.13	0.0130
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@104	13.15	10.95	0.0124
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	13.37	11.17	0.0131
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	13.29	11.09	0.0129
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	13.09	10.89	0.0123
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	12.87	10.67	0.0117
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	12.89	10.69	0.0117
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	12.69	10.49	0.0112
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	50@25	12.89	10.69	0.0117
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	12.79	10.59	0.0115
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@104	12.61	10.41	0.0110
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	50@25	12.85	10.65	0.0116
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	12.72	10.52	0.0113
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@104	12.52	10.32	0.0108
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	12.36	10.16	0.0104
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	12.52	10.32	0.0108
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	12.28	10.08	0.0102

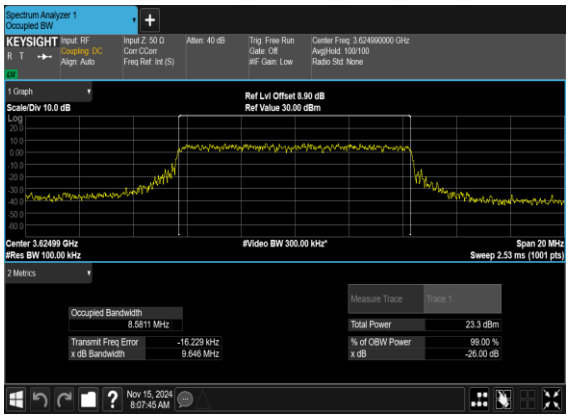
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	11.1	**PASS**	NV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	11.7	**PASS**	LV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	18.9	**PASS**	HV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	16.3	**PASS**	-30℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	12.8	**PASS**	-20℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	19.3	**PASS**	-10℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	16.9	**PASS**	0℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	11.1	**PASS**	10℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	11.2	**PASS**	20℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	18.7	**PASS**	30℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	13.9	**PASS**	40℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	16.6	**PASS**	50℃

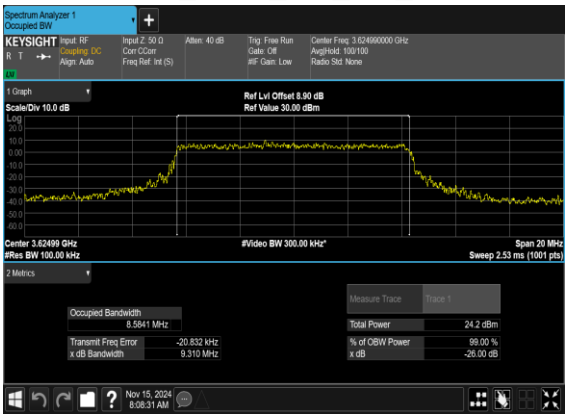
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5811	9.646
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5841	9.31
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5682	9.353
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5506	9.378
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.565	14.97
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.582	14.54
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.533	14.83
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.551	14.75
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.217	19.56
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.231	19.81
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.182	19.26
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.142	19.33
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.865	29.16
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.856	29.16
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.813	28.84
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.761	29.13
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.81	39.42
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.819	39.25
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.921	39.42
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.913	39.74

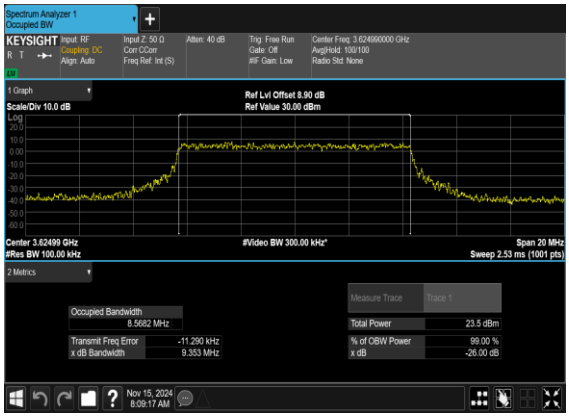
N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



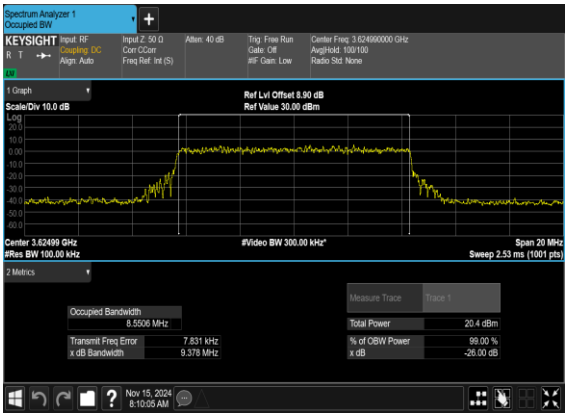
N48(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



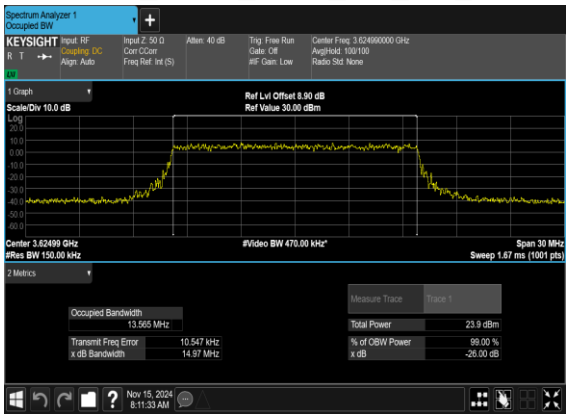
N48(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



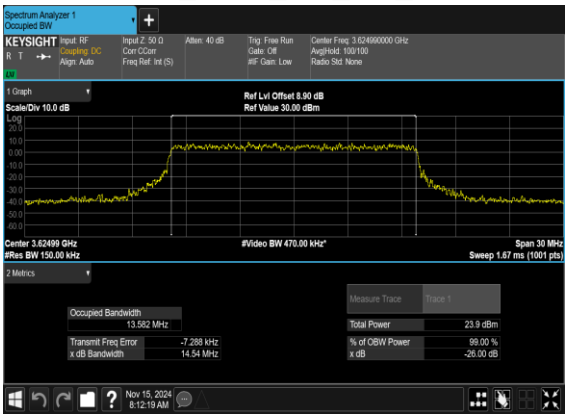
N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



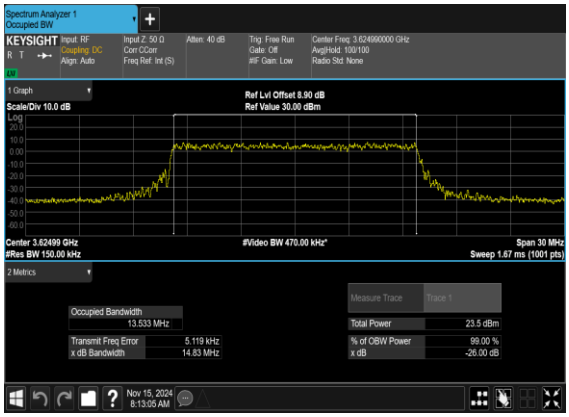
N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



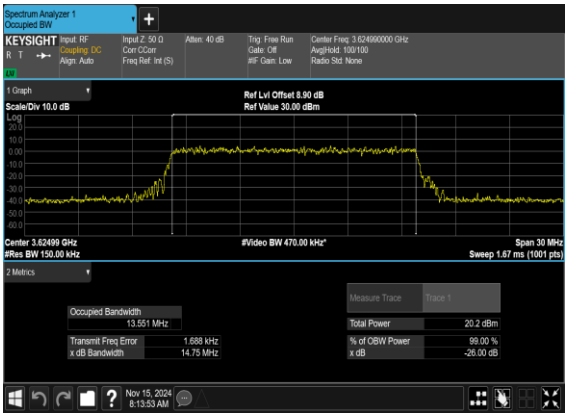
N48(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



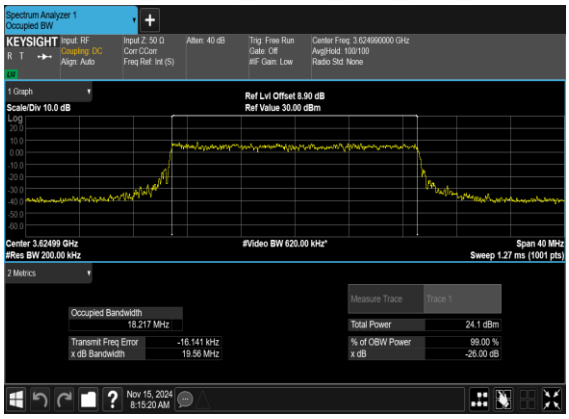
N48(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



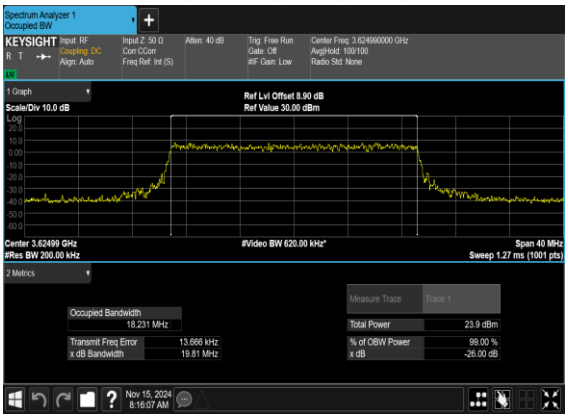
N48(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



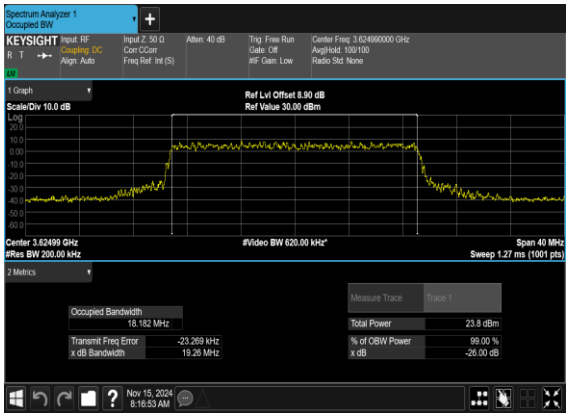
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



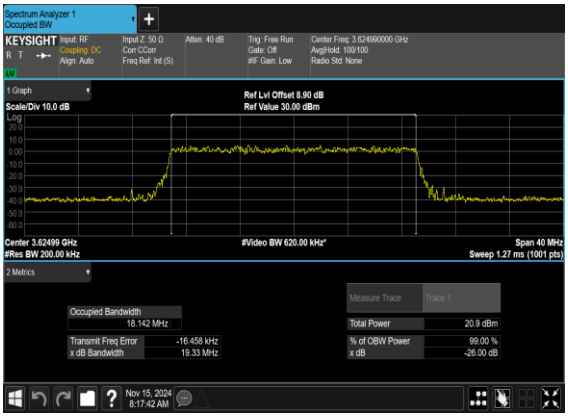
N48(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



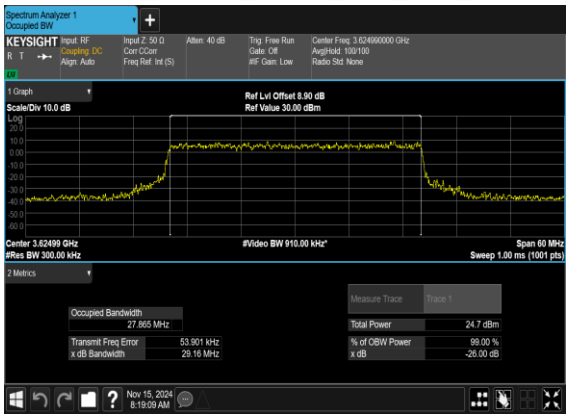
N48(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



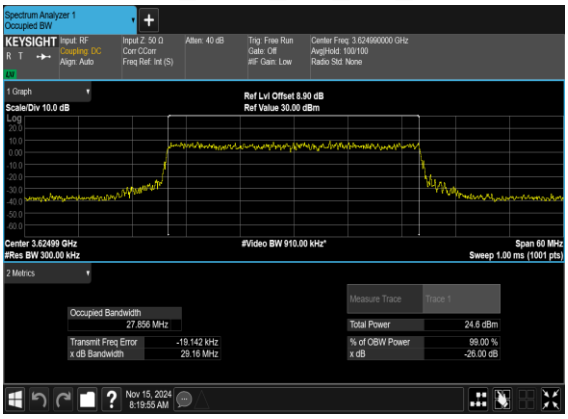
N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

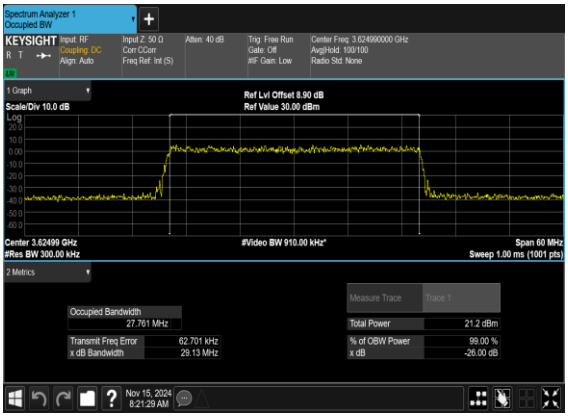


N48(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

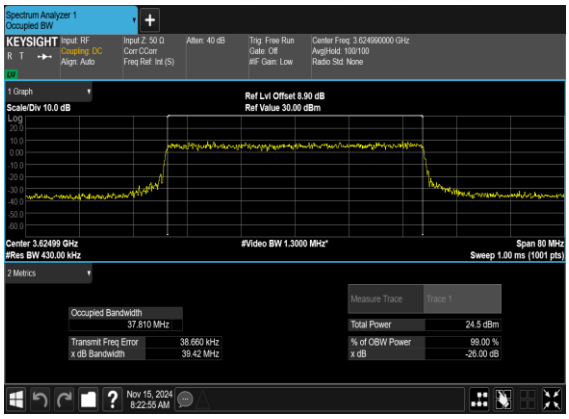


N48(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

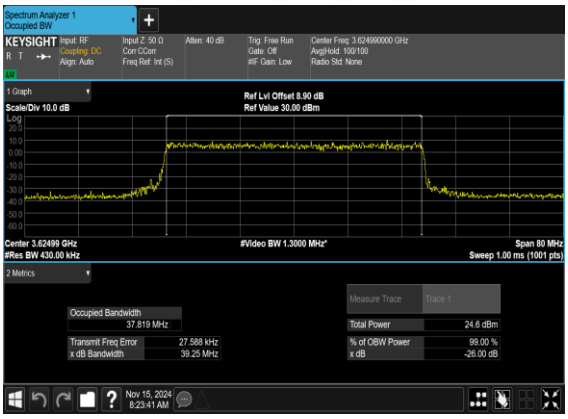
N48(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



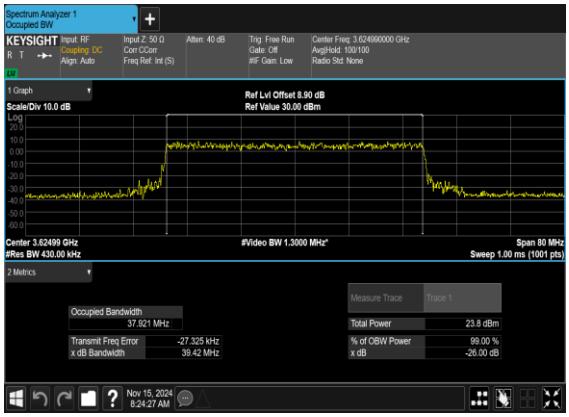
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



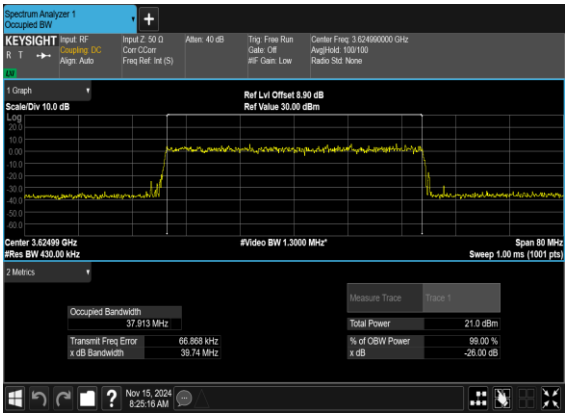
N48(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



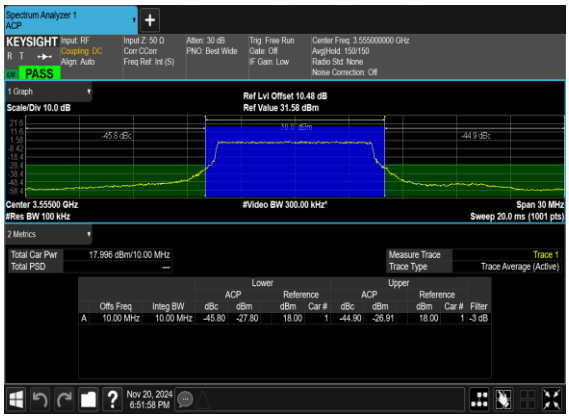
Adjacent Channel Leakage Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	24@0	-15.8	-14.9	**see graph**	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-11.64	-27.98	**see graph**	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@23	-28.01	-12.17	**see graph**	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	-12.64	-15.3	**see graph**	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-11.4	-27.89	**see graph**	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	-27.32	-11.62	**see graph**	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	-14.51	-16.89	**see graph**	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-13.39	-23.14	**see graph**	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@23	-22.44	-12.06	**see graph**	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	-12.77	-13.72	**see graph**	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.97	-22.96	**see graph**	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	-21.08	-9.0	**see graph**	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	24@0	-11.35	-11.05	**see graph**	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-11.14	-22.95	**see graph**	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@23	-23.28	-12.19	**see graph**	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	-13.13	-14.28	**see graph**	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-10.96	-21.97	**see graph**	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	-22.89	-11.19	**see graph**	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	50@0	-17.68	-18.76	**see graph**	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-10.61	-20.87	**see graph**	PASS

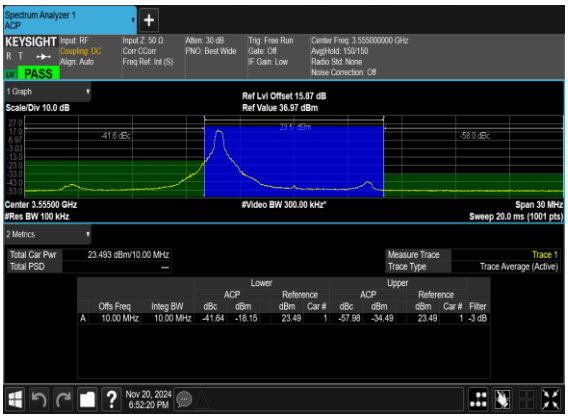
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@50	-25.51	-14.09	**see graph**	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	-16.91	-18.19	**see graph**	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-12.6	-22.17	**see graph**	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	-24.53	-12.27	**see graph**	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-16.6	-17.6	**see graph**	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-10.56	-19.31	**see graph**	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@50	-20.26	-13.44	**see graph**	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-16.05	-16.56	**see graph**	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-11.86	-19.35	**see graph**	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	-20.09	-12.33	**see graph**	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	50@0	-15.76	-16.12	**see graph**	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-11.87	-19.79	**see graph**	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@50	-17.87	-12.01	**see graph**	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	-15.02	-15.92	**see graph**	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-11.43	-19.62	**see graph**	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	-17.96	-12.76	**see graph**	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	100@0	-9.79	-9.22	**see graph**	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-8.96	-9.9	**see graph**	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@105	-10.01	-8.6	**see graph**	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	-9.68	-9.01	**see graph**	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-9.28	-9.81	**see graph**	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	-10.01	-8.75	**see graph**	PASS

48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-13.31	-12.92	**see graph**	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-11.22	-14.12	**see graph**	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-13.63	-11.07	**see graph**	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-15.63	-12.6	**see graph**	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.52	-15.92	**see graph**	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	-15.13	-12.21	**see graph**	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	100@0	-8.67	-7.77	**see graph**	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-8.72	-8.53	**see graph**	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@105	-9.15	-7.49	**see graph**	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	-8.2	-7.39	**see graph**	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-8.0	-7.79	**see graph**	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	-8.61	-6.94	**see graph**	PASS

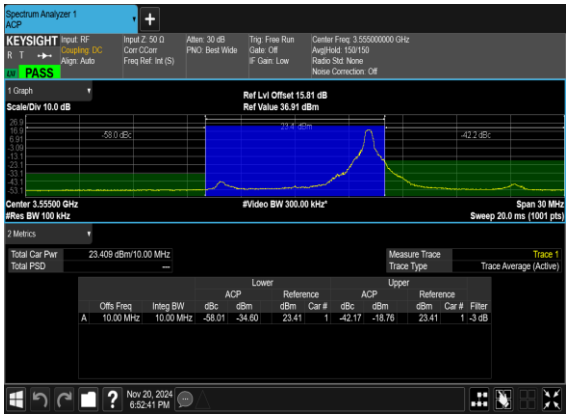
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



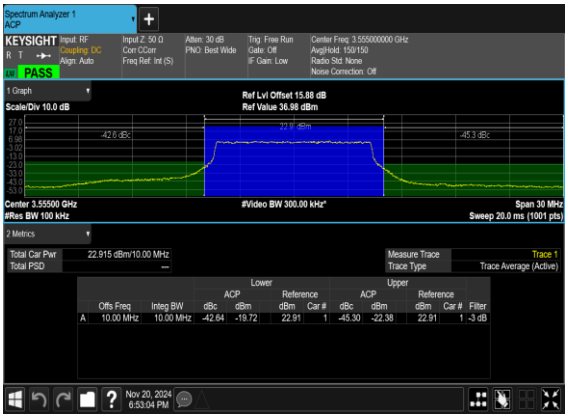
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



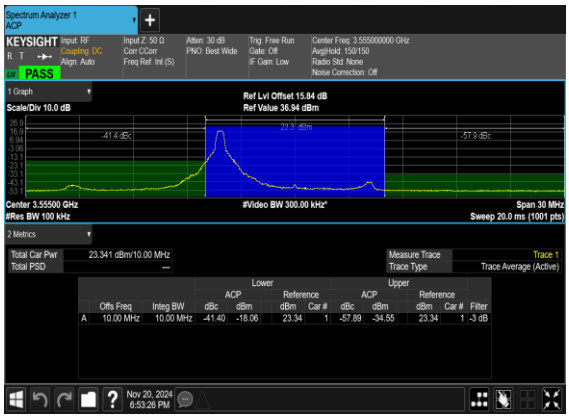
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH



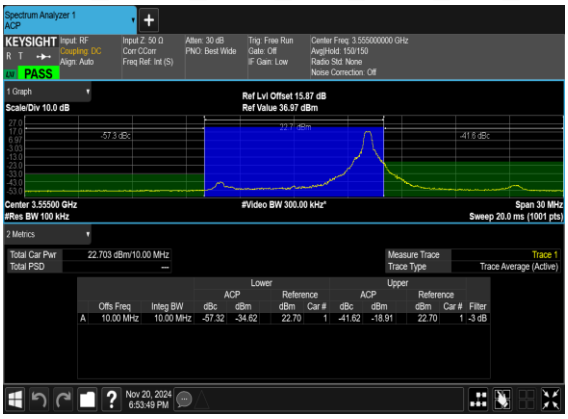
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



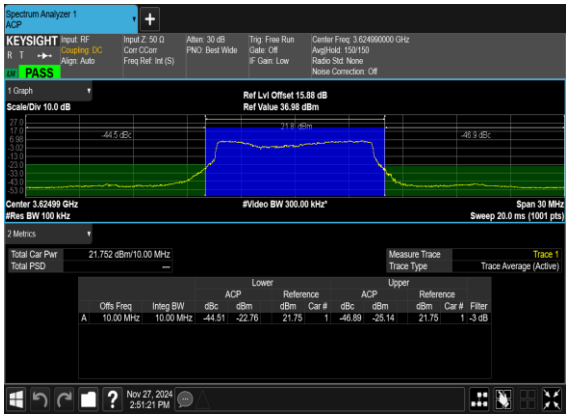
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



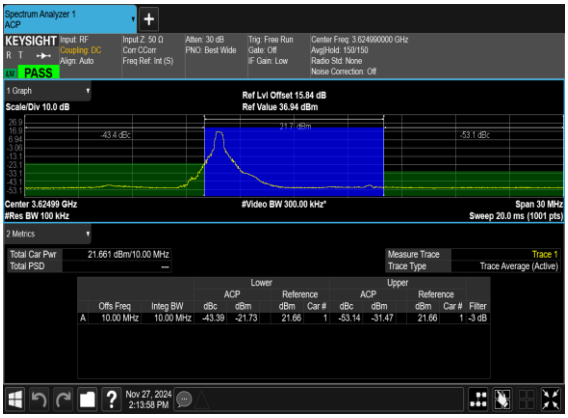
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



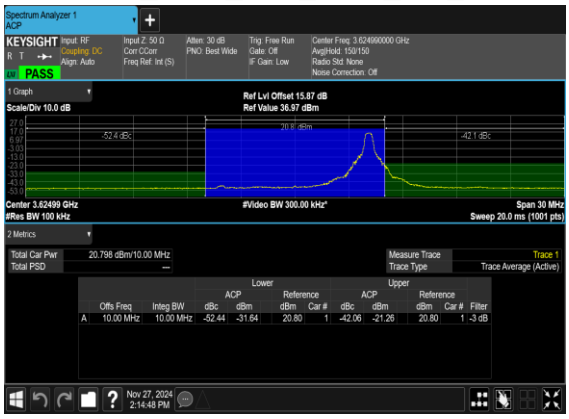
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



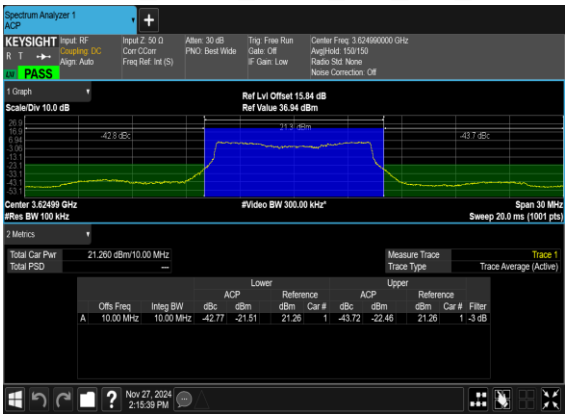
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



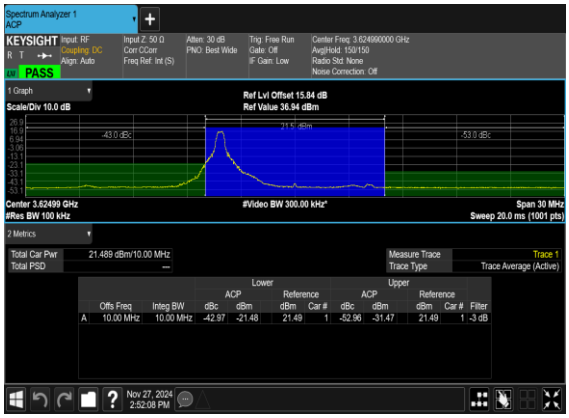
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH



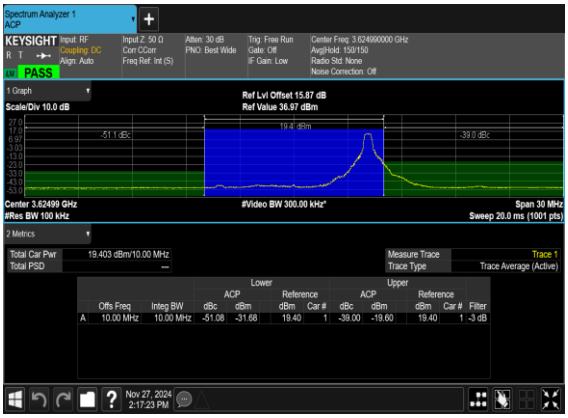
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



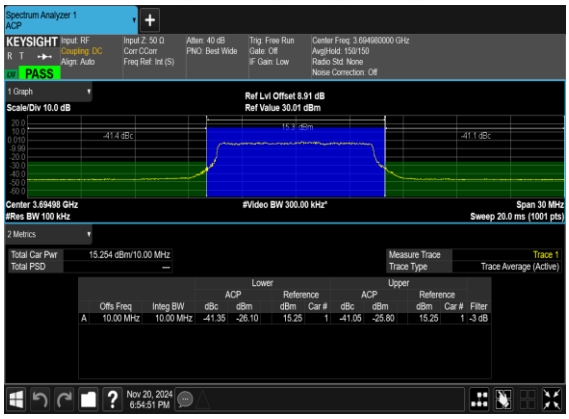
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



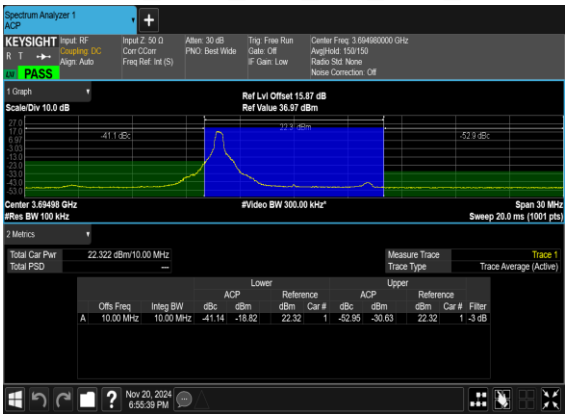
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



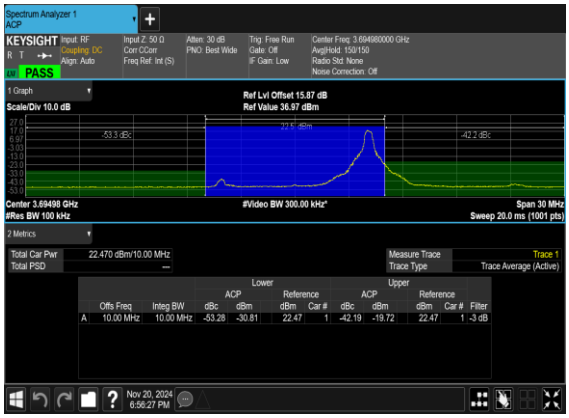
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



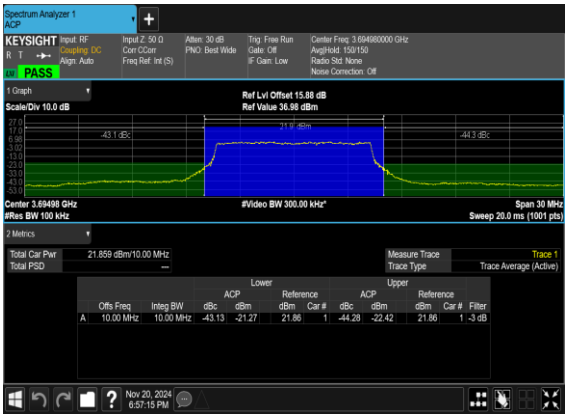
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



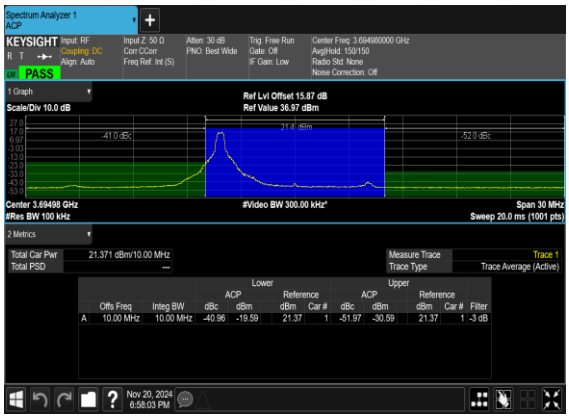
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH



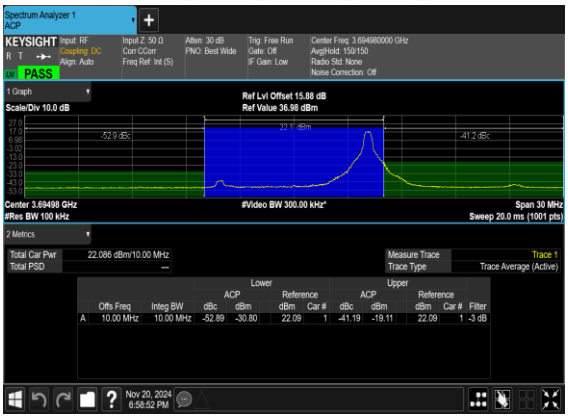
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



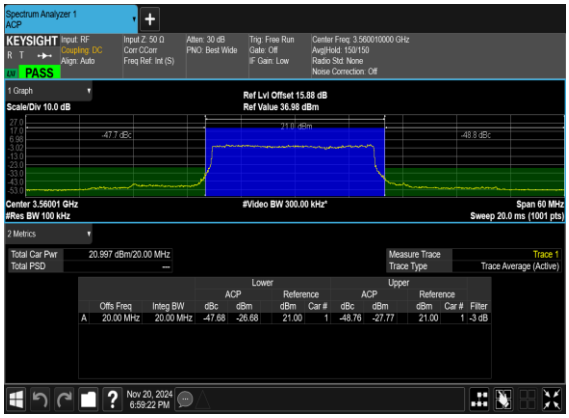
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



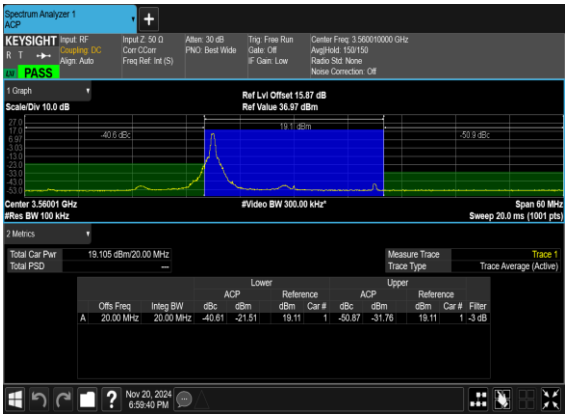
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



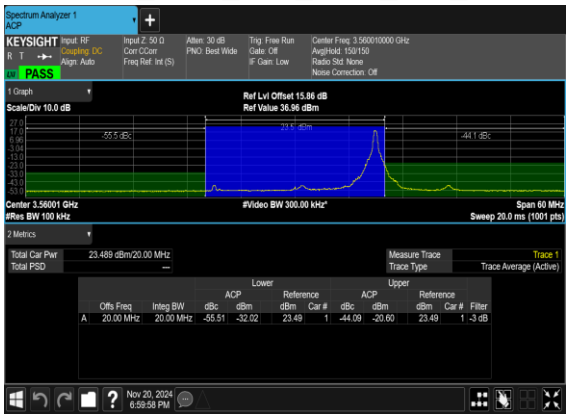
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



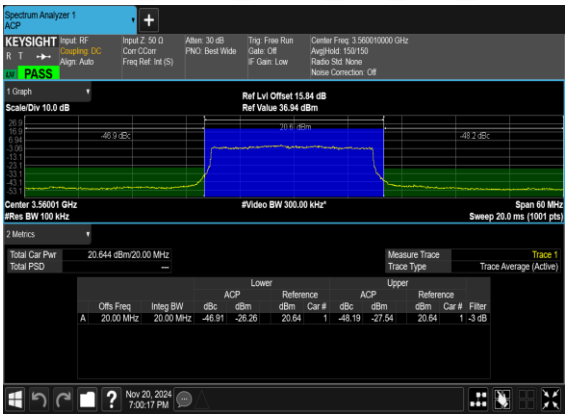
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



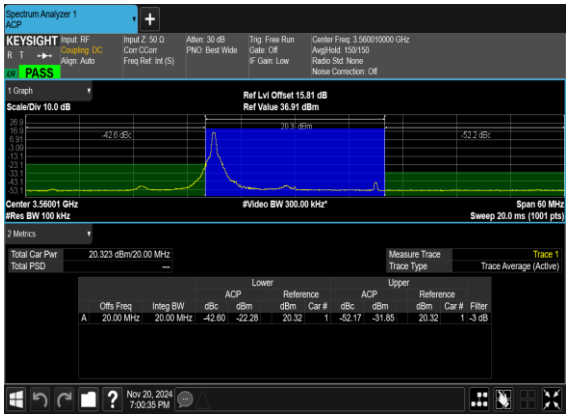
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH



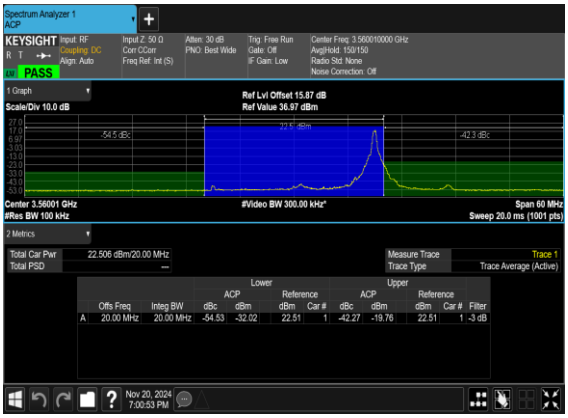
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



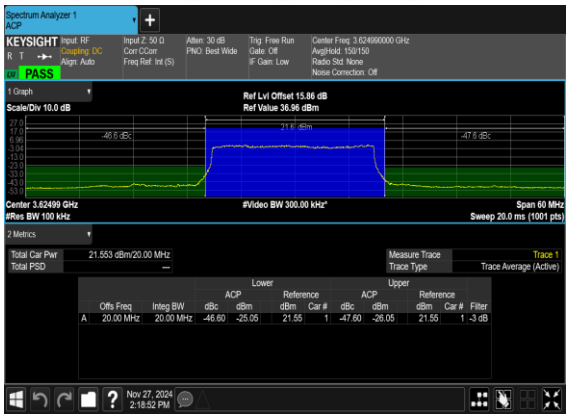
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



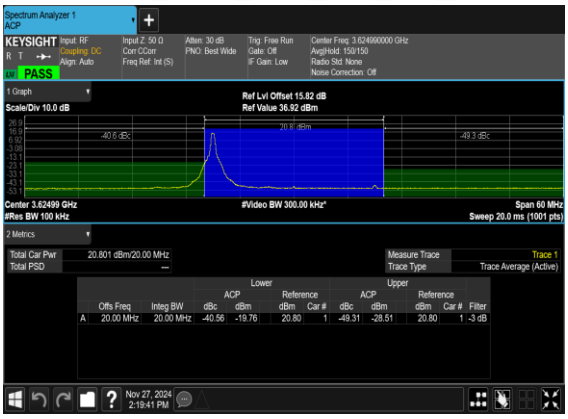
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



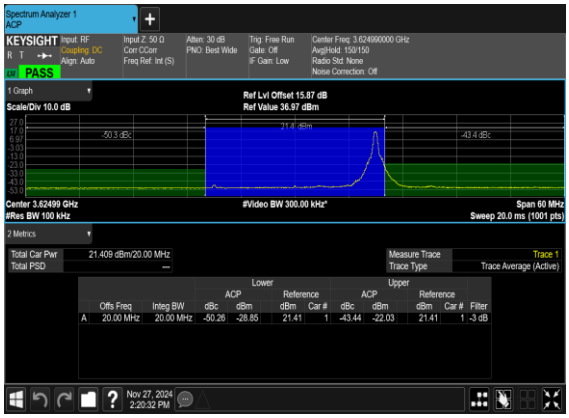
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



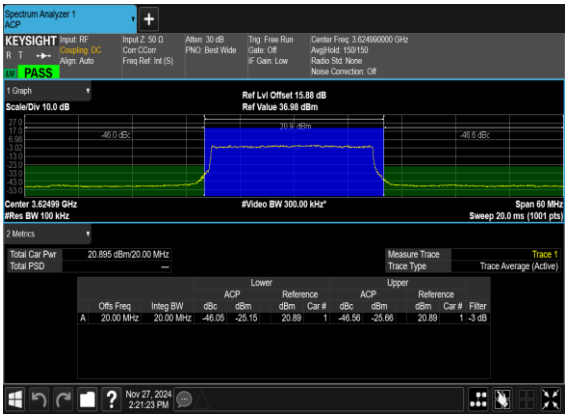
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



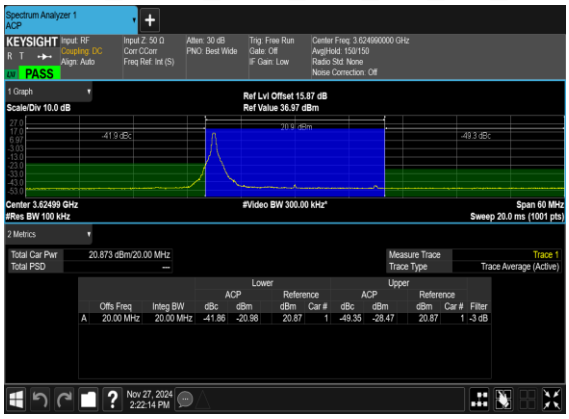
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH



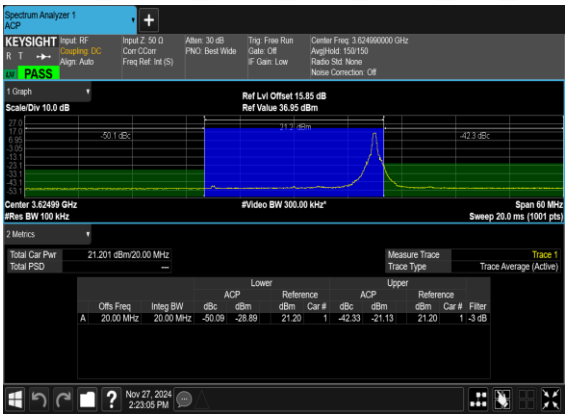
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



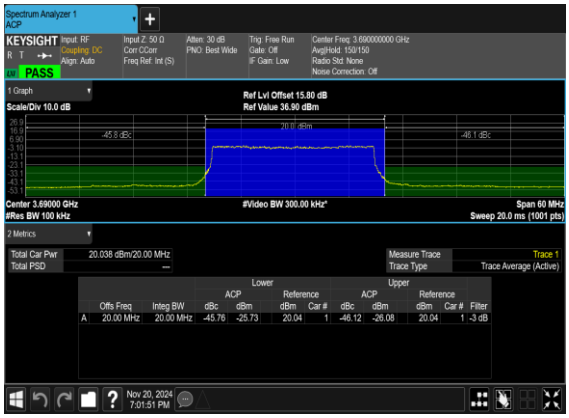
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



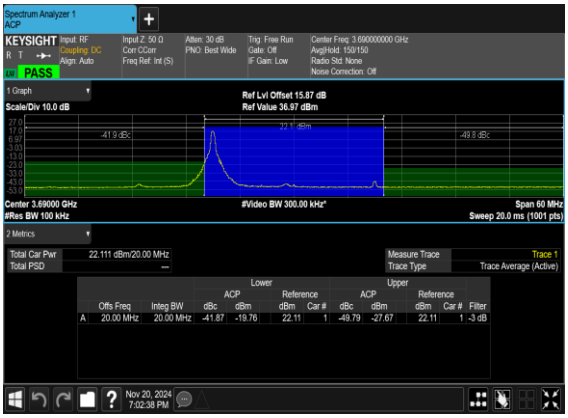
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



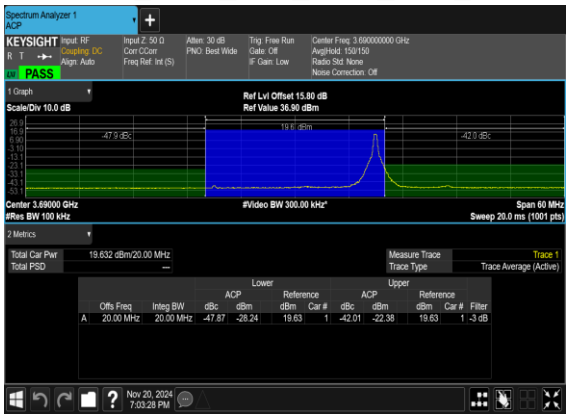
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



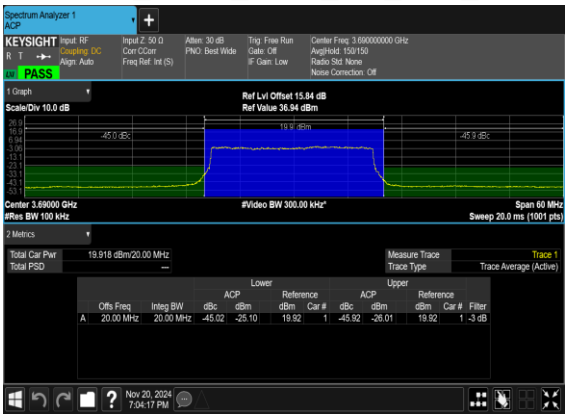
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



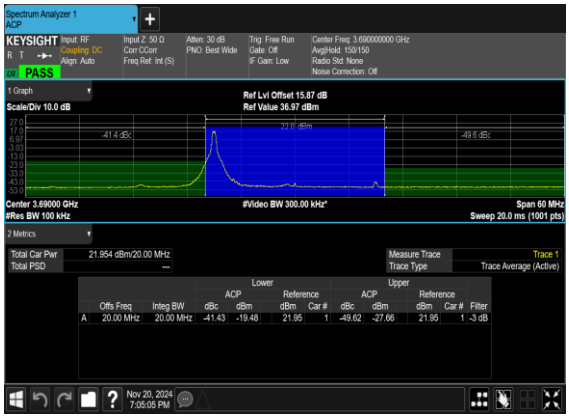
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH



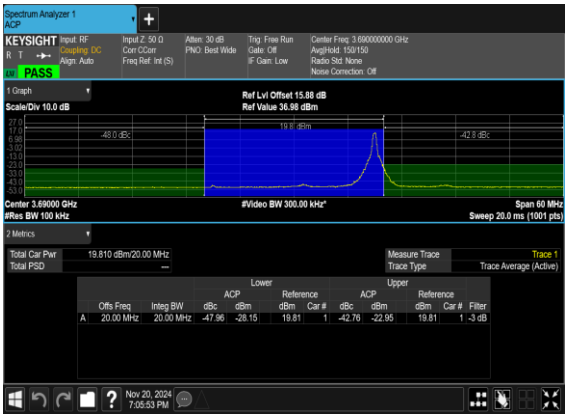
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



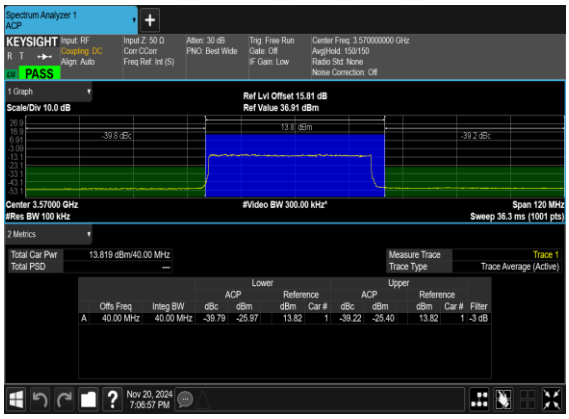
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_DFT-s-OFDM_QPSK _Edge_1RB_Right_High_CH



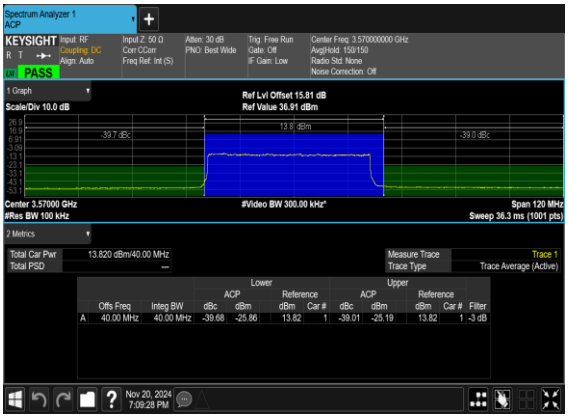
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



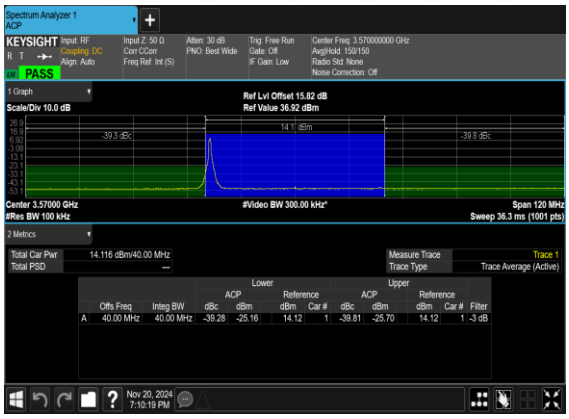
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH

N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH

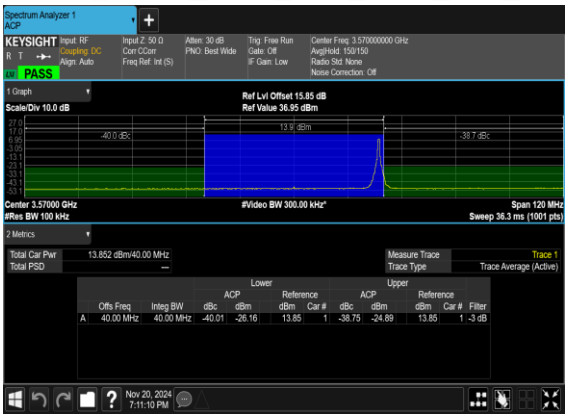
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



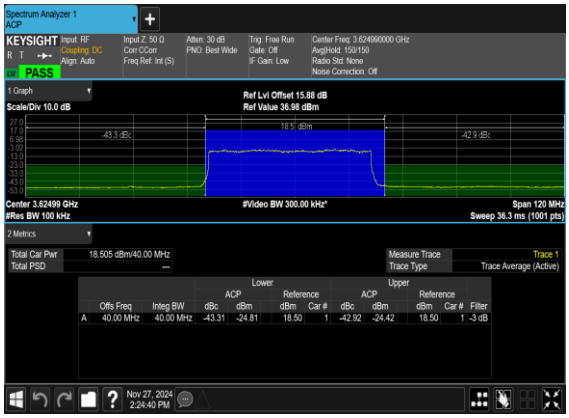
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH

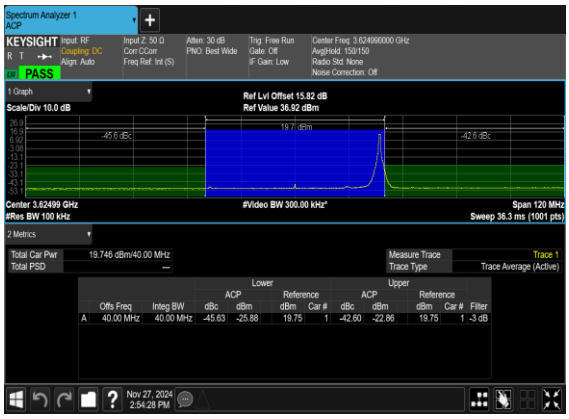


N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

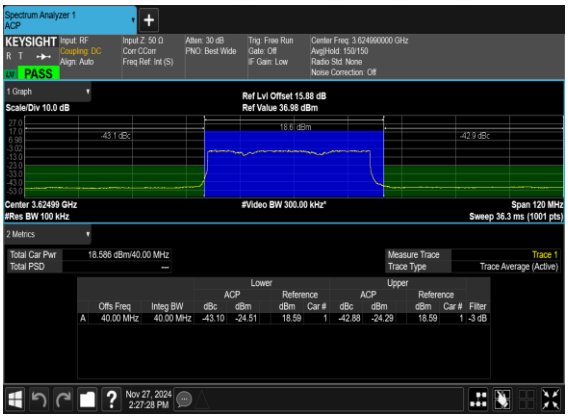


N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH

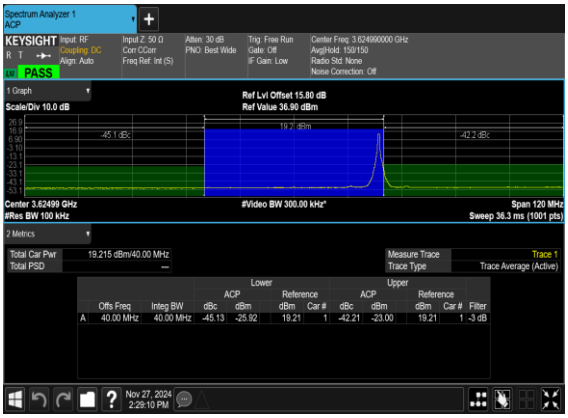


N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

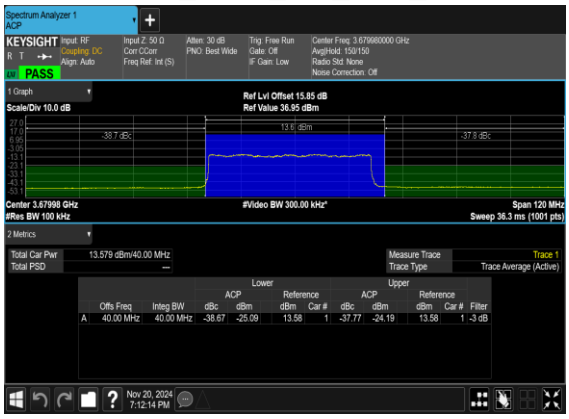


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



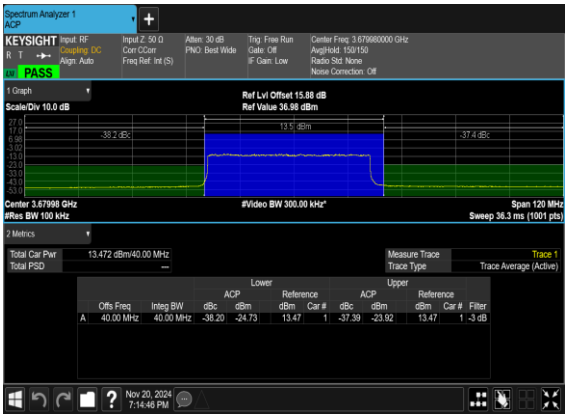
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



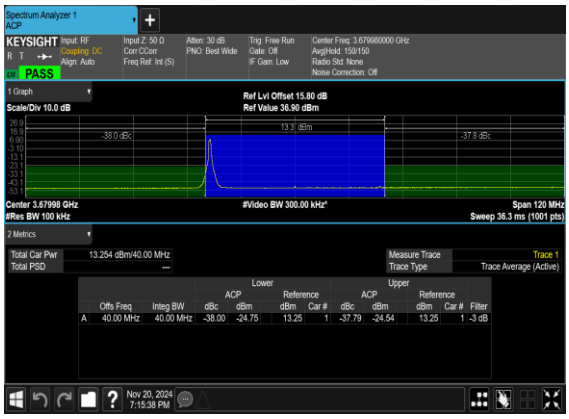
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH

N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH

N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK _Edge_1RB_Right_High_CH

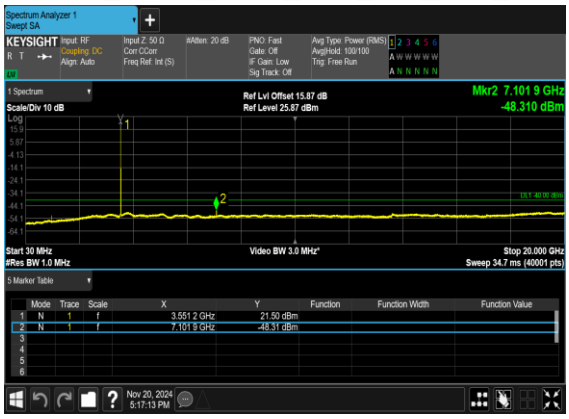
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**

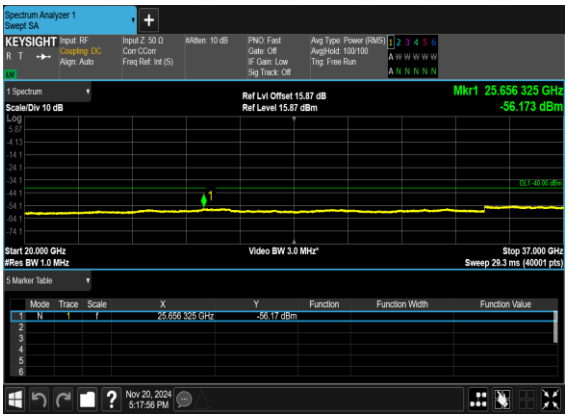
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

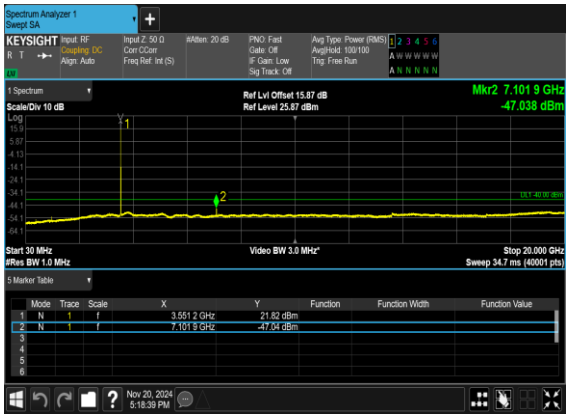
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



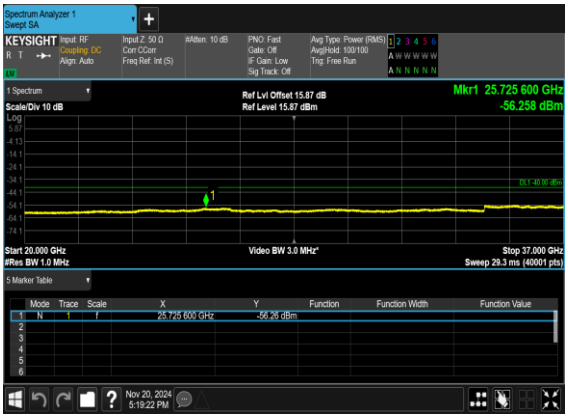
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



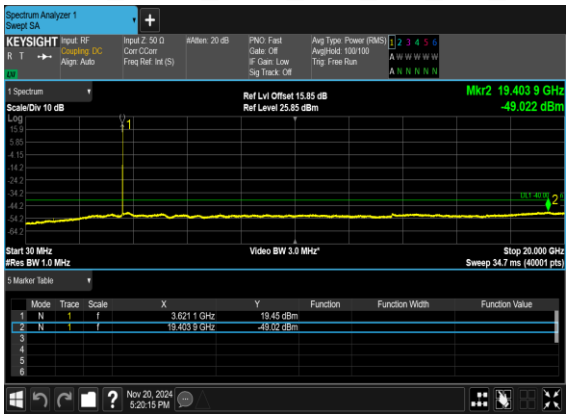
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



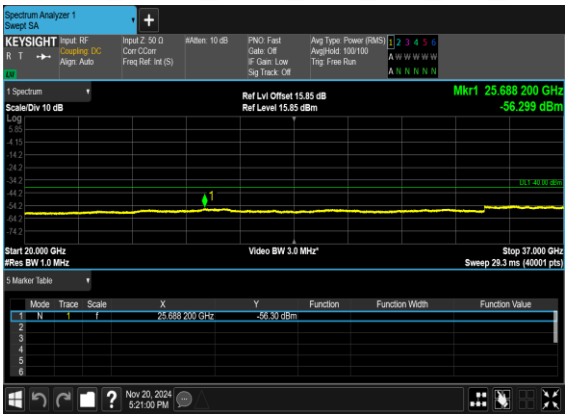
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



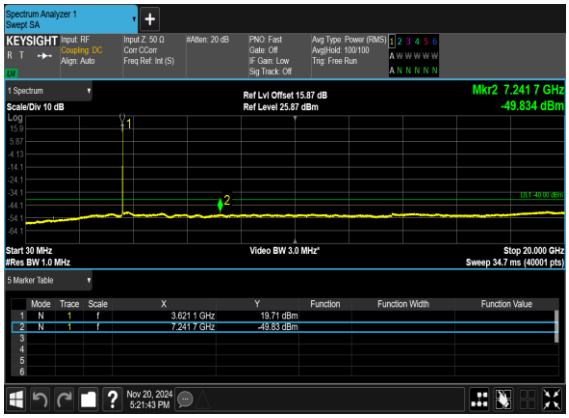
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



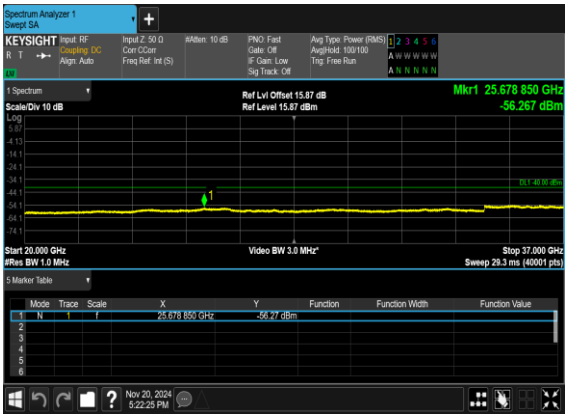
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



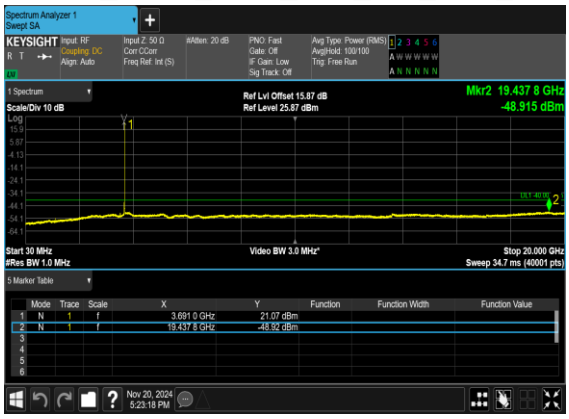
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



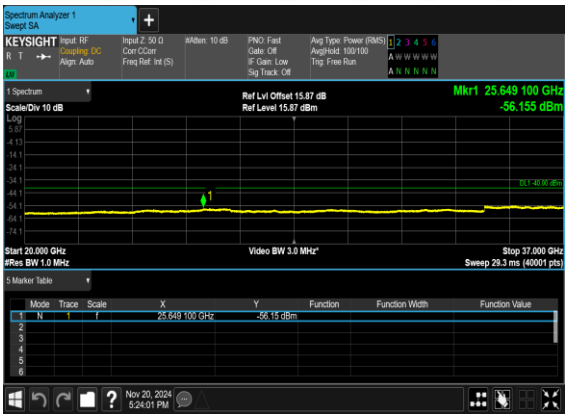
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



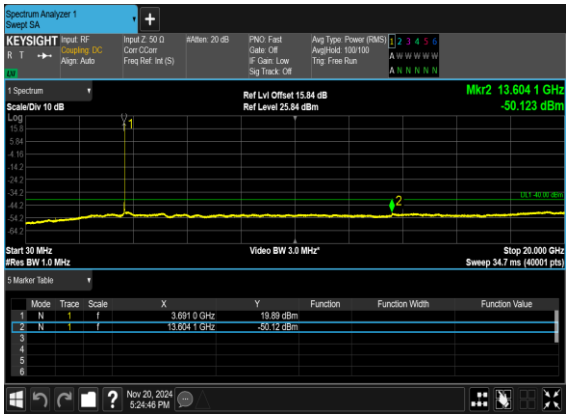
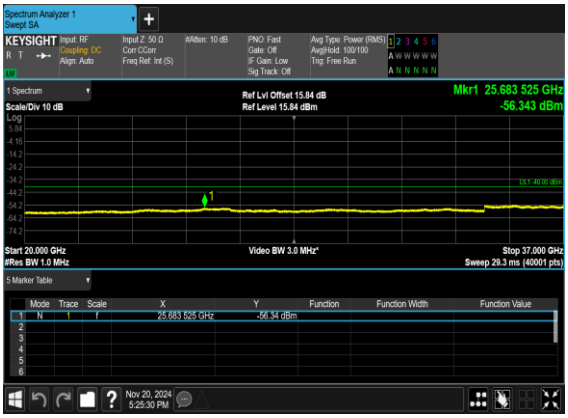
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH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