

FCC RF Test Report

APPLICANT : TCL Communication Ltd.
EQUIPMENT : USB Connect 5G (NA)
BRAND NAME : Vodafone
MODEL NAME : IK512US
FCC ID : 2ACCJSCD002
STANDARD : 47 CFR Part 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Jul. 15, 2024 ~ Jul. 19, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26 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



Sporton International Inc. (ShenZhen)

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People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FG450613M	01	Initial issue of report	Aug. 16, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	\$2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.4	\$2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	\$2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	\$2.1051 §96.41	Conducted Spurious Emission	Pass	
3.7	\$2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	\$2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 12.27 dB at 10818.69 MHz

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

TCL Communication Ltd.

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

1.2 Manufacturer

Vodafone Procurement Company S.à.r.l.

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

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	USB Connect 5G (NA)
Brand Name	Vodafone
Model Name	IK512US
FCC ID	2ACCJSCD002
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
SCS	30kHz
Bandwidth	10MHz / 15MHz / 20MHz / 30MHz / 40MHz
Antenna Gain	<Ant. 4> 5G NR n48: 2.64 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)
IMEI Code	Conducted: 352912230200263 Radiation: 352912230200271
HW Version	V3.0
SW Version	IK512US_ZZ_01.00_04
EUT Stage	Production Unit

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. 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	0.1774	8M58G7D	0.1466	8M59W7D
15	3557.52~3692.49	0.1828	13M6G7D	0.1528	13M6W7D
20	3560.01~3690.00	0.1845	18M2G7D	0.1466	18M2W7D
30	3565.02~3684.99	0.1837	27M8G7D	0.1521	27M8W7D
40	3570.00~3679.98	0.1910	37M9G7D	0.1531	37M9W7D

1.5 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.
	03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

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

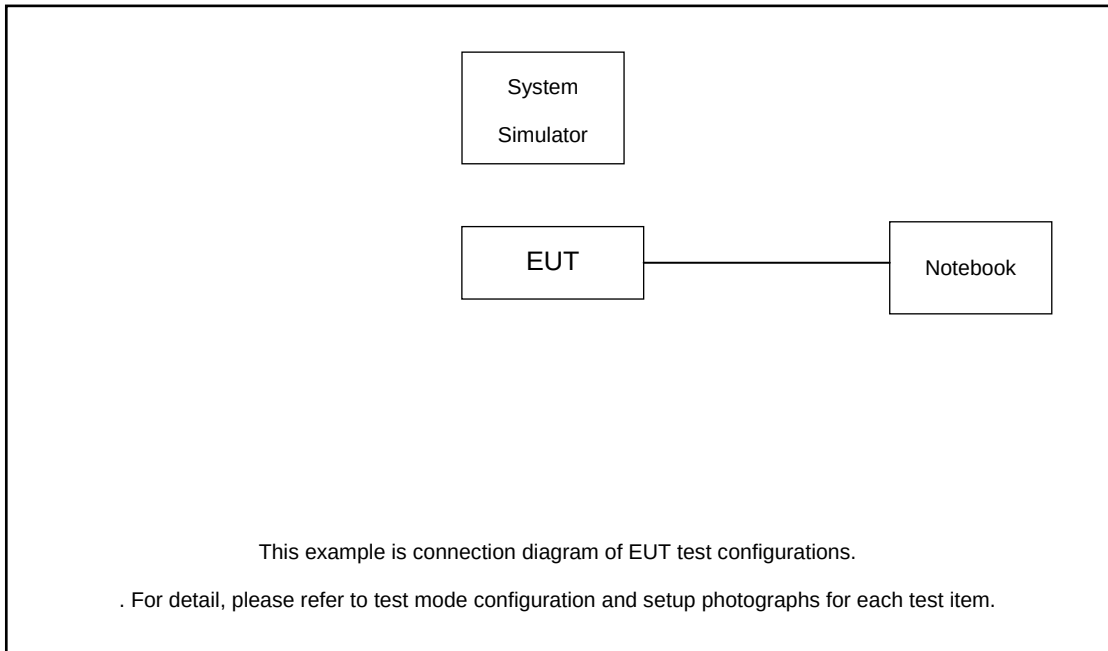
2.1 Test Mode

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.I.R.P.	n48	-	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 = 5.0V ; Low Voltage =4.75V; High Voltage =5.25V																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

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.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	Thinkpad	Thinkpad E14	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss

Offset = RF cable loss

Following shows an offset computation example with cable loss 8.9 dB

Example :

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

2.5 Frequency List of Low/Middle/High Channels

5G 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

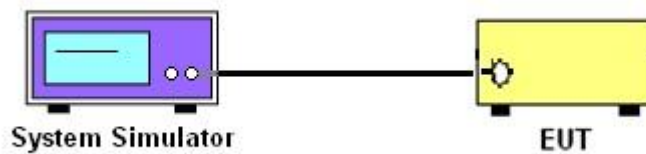
3 Conducted Test Items

3.1 Measuring Instruments

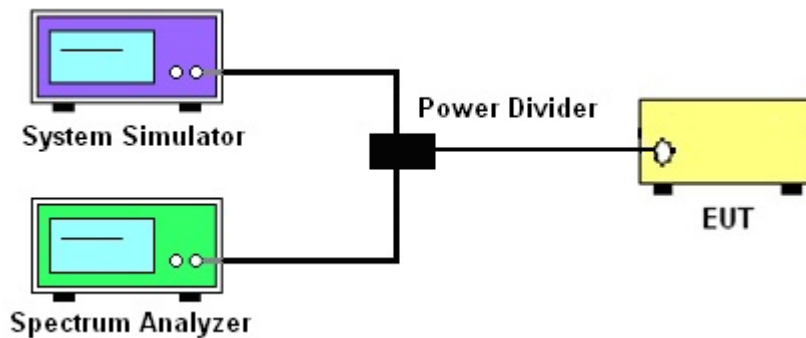
See list of measuring instruments of this test report.

3.1.1 Test Setup

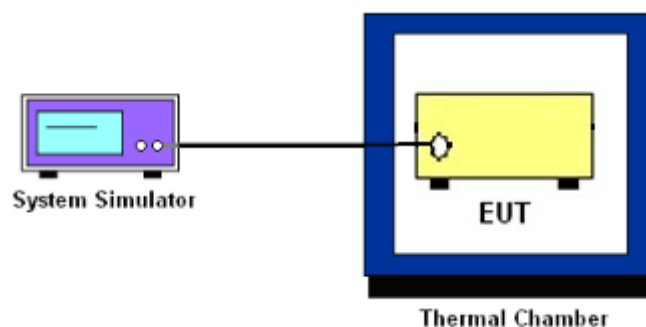
3.1.2 Conducted Output Power / ACLR



3.1.3 Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power

3.2.1 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.

3.2.2 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.

3.3 EIRP

3.3.1 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 NR 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 NR n48 (i.e. 5, 10, 15, 20MHz)

3.3.2 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)

$$EIRP = P_T + G_T - L_C, ERP = EIRP - 2.15, \text{ where}$$

$$P_T = \text{transmitter output power in dBm}$$

$$G_T = \text{gain of the transmitting antenna in dBi}$$

$$L_C = \text{signal attenuation in the connecting cable between the transmitter and antenna in dB}$$

3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 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.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (i)

For CBSD the emission limits outside the fundamental are as follows:

Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz

Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz

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 -40 dBm/MHz

3.5.2 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 $\geq 1\%$ 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
5. Offset has included the duty factor for n48. 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.

3.6 Conducted Spurious Emission

3.6.1 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.

3.6.2 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 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.

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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

3.7.2 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.

3.7.3 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 $25\pm 5^{\circ}\text{C}$ 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.

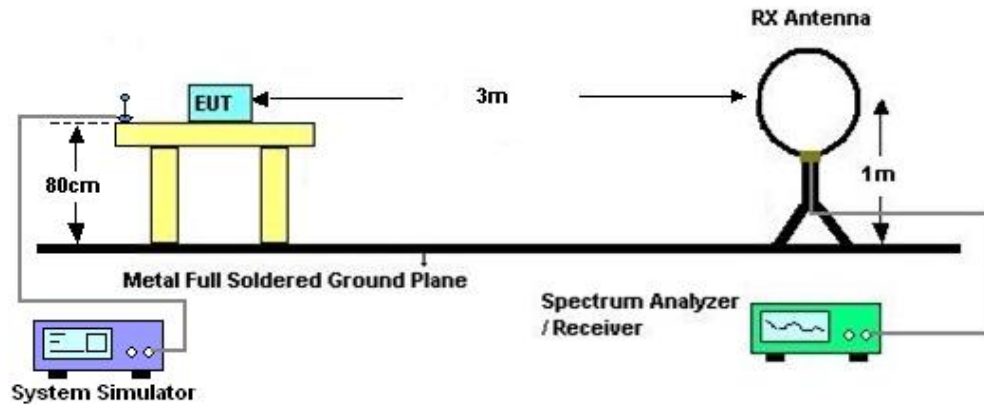
4 Radiated Test Items

4.1 Measuring Instruments

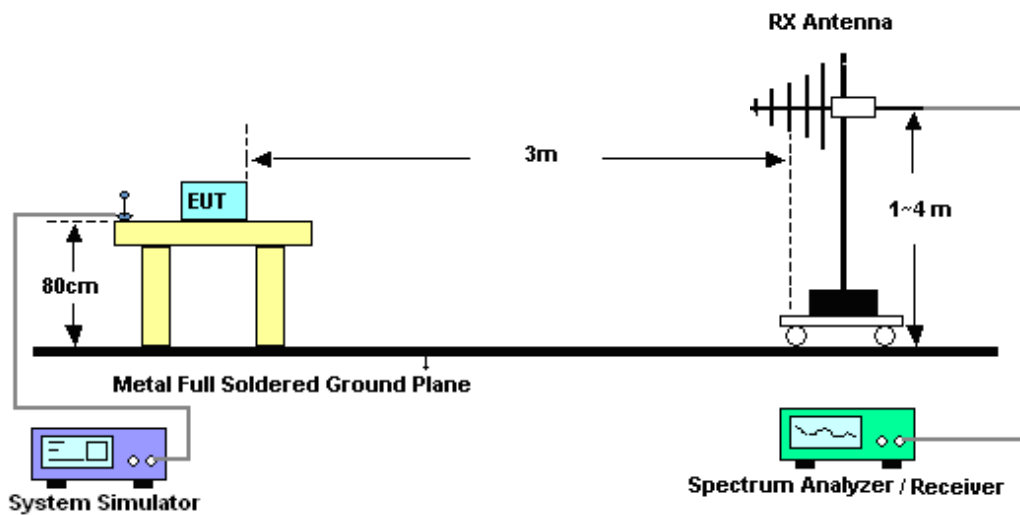
See list of measuring instruments of this test report.

4.2 Test Setup

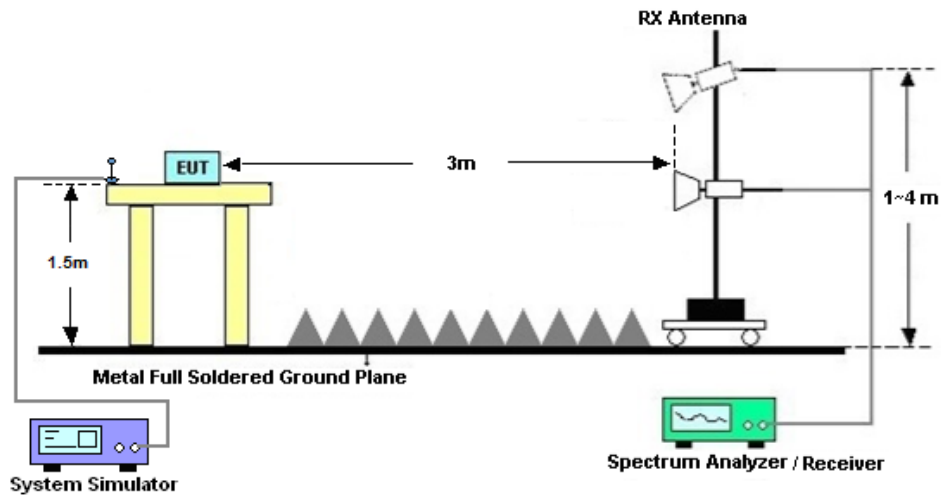
4.2.1 For radiated test below 30MHz



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. 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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
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	Jul. 29, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Jul. 29, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Jul. 29, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Jul. 29, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Jul. 15, 2024	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 15, 2024	Jul. 27, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Jul. 15, 2024	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jul. 15, 2024	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jul. 15, 2024	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Jul. 15, 2024	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2023	Jul. 15, 2024	Oct. 17, 2024	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2023	Jul. 15, 2024	Oct. 17, 2024	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2023	Jul. 15, 2024	Oct. 17, 2024	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 15, 2024	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 15, 2024	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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
ACLR	± 1.34 dB
Frequency Stability	± 1.3 Hz

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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



FR1 N48_Ant4

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=2.64dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
48	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	19.65	22.29	0.1694
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	18.89	21.53	0.1422
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.71	22.35	0.1718
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.98	21.62	0.1452
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	19.85	22.49	0.1774
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	19.02	21.66	0.1466
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	19.8	22.44	0.1754
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	18.94	21.58	0.1439
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.95	22.59	0.1816
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.14	21.78	0.1507
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	19.98	22.62	0.1828
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	19.2	21.84	0.1528
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	19.8	22.44	0.1754
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	18.87	21.51	0.1416
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.89	22.53	0.1791
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.93	21.57	0.1435
48	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	20.02	22.66	0.1845
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	19.02	21.66	0.1466
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	19.82	22.46	0.1762
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	19	21.64	0.1459
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.87	22.51	0.1782
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.02	21.66	0.1466
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	20	22.64	0.1837
48	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	19.18	21.82	0.1521
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	50@25	19.82	22.46	0.1762
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	19.85	22.49	0.1774
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@104	19.94	22.58	0.1811
48	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	19.84	22.48	0.1770
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	19.77	22.41	0.1742



48	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	19.96	22.6	0.1820
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	18.85	21.49	0.1409
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	18.93	21.57	0.1435
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	18.92	21.56	0.1432
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	50@25	17.36	20	0.1000
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	17.25	19.89	0.0975
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@104	17.38	20.02	0.1005
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	50@25	15.3	17.94	0.0622
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	15.17	17.81	0.0604
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@104	15.24	17.88	0.0614
48	30	40	638000	3570	CP-OFDM QPSK	53@26	18.36	21	0.1259
48	30	40	638000	3570	CP-OFDM QPSK	1@1	18.31	20.95	0.1245
48	30	40	638000	3570	CP-OFDM QPSK	1@104	18.3	20.94	0.1242
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	19.91	22.55	0.1799
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	19.88	22.52	0.1786
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	20.05	22.69	0.1858
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	19.99	22.63	0.1832
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.85	22.49	0.1774
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	20.04	22.68	0.1854
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	18.98	21.62	0.1452
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.94	21.58	0.1439
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	19.18	21.82	0.1521
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	17.44	20.08	0.1019
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	17.39	20.03	0.1007
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	17.54	20.18	0.1042
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	15.47	18.11	0.0647
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	15.2	17.84	0.0608
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	15.49	18.13	0.0650
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	18.46	21.1	0.1288
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	18.36	21	0.1259
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	18.59	21.23	0.1327
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	50@25	20.05	22.69	0.1858
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	19.99	22.63	0.1832
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@104	20.13	22.77	0.1892
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	20.09	22.73	0.1875



48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	20	22.64	0.1837
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	20.17	22.81	0.1910
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	19.01	21.65	0.1462
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	19.14	21.78	0.1507
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	19.21	21.85	0.1531
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	50@25	17.42	20.06	0.1014
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	17.41	20.05	0.1012
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@104	17.54	20.18	0.1042
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	50@25	15.45	18.09	0.0644
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	15.31	17.95	0.0624
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@104	15.53	18.17	0.0656
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	18.46	21.1	0.1288
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	18.43	21.07	0.1279
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	18.64	21.28	0.1343

**Frequency Stability**

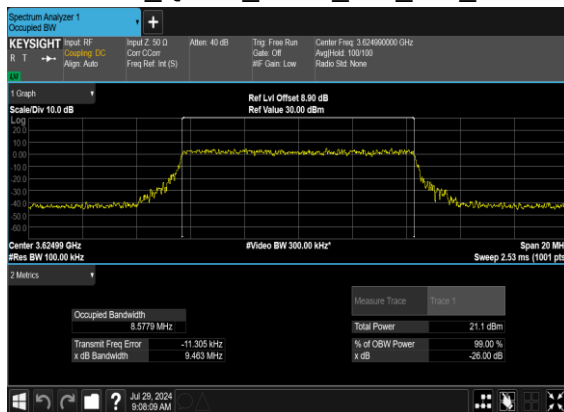
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0044	PASS	NV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0024	PASS	LV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0065	PASS	HV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0066	PASS	-30℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0065	PASS	-20℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0023	PASS	-10℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0061	PASS	0℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0053	PASS	10℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0044	PASS	20℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0068	PASS	30℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0034	PASS	40℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0030	PASS	50℃

**Occupied Bandwidth**

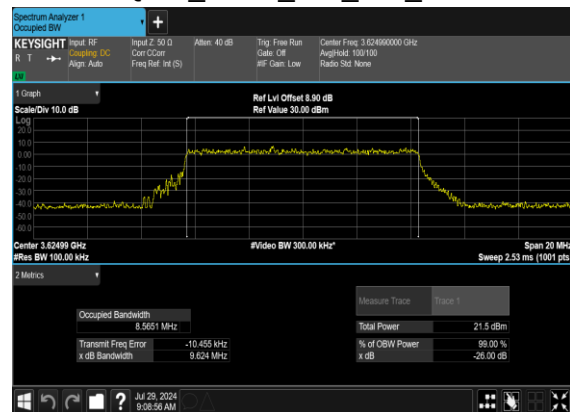
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5779	9.463
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5651	9.624
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5911	9.435
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5789	9.249
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.596	14.77
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.582	14.78
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.601	14.62
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.553	14.77
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.175	19.56
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.206	19.77
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.248	19.25
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.227	19.51
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.808	29.28
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.694	29.12
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.748	28.89
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.839	29.2
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.865	39.69
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.875	39.26
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.85	39.59
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.913	39.5



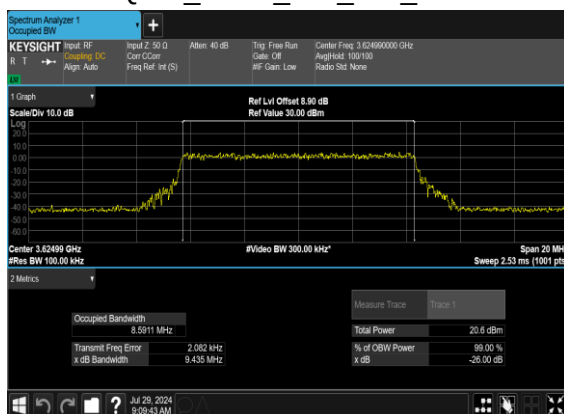
N48(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



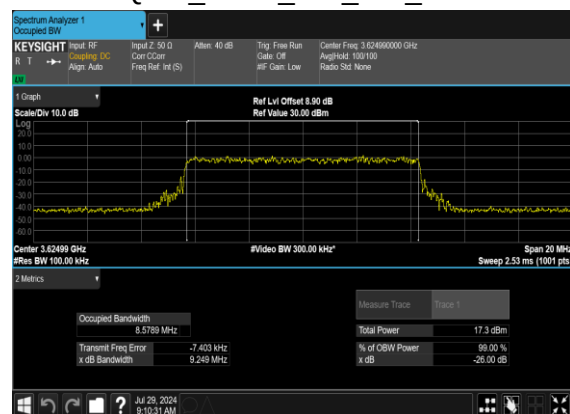
N48(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



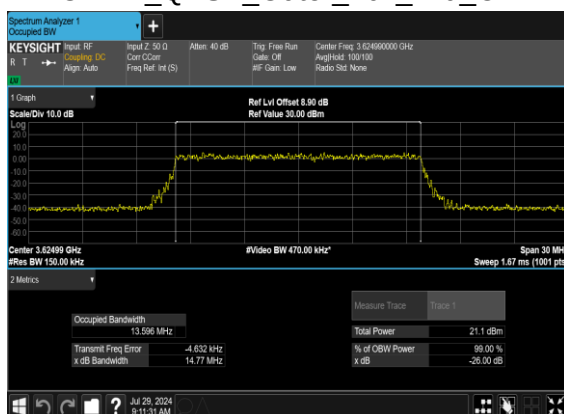
N48(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



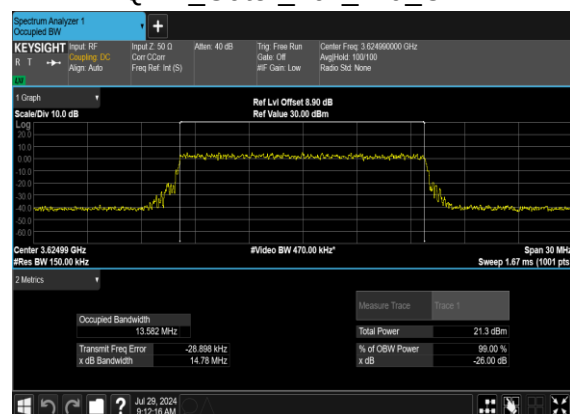
N48(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

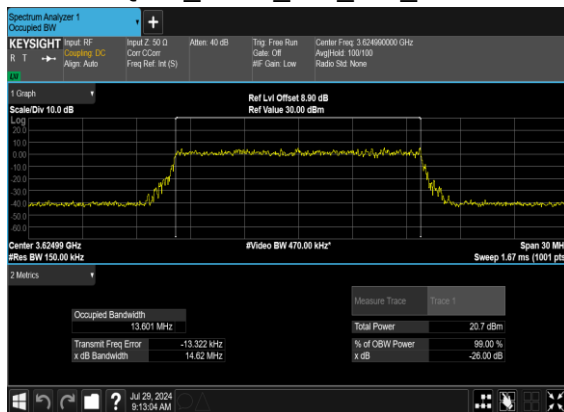
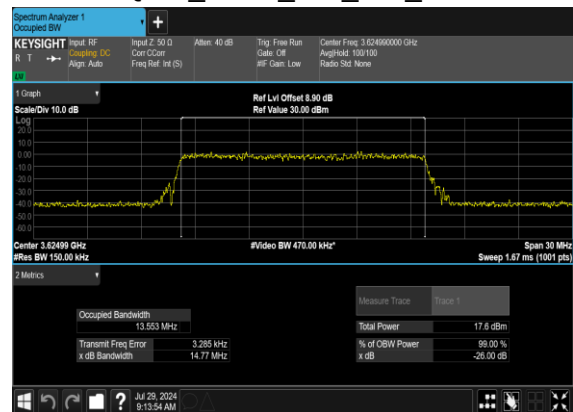
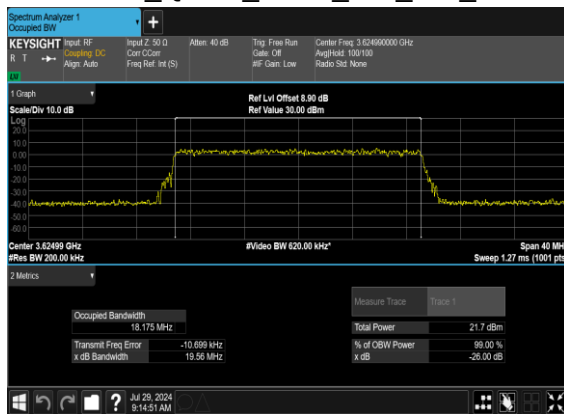
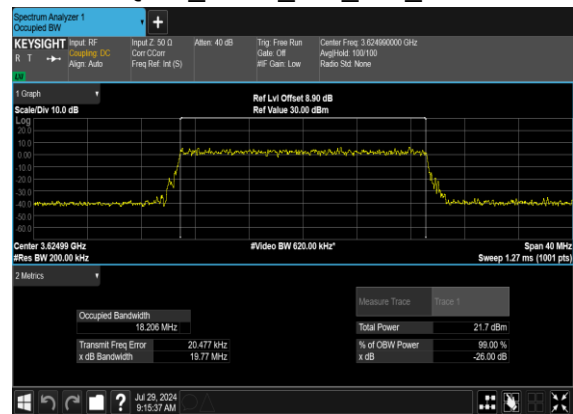
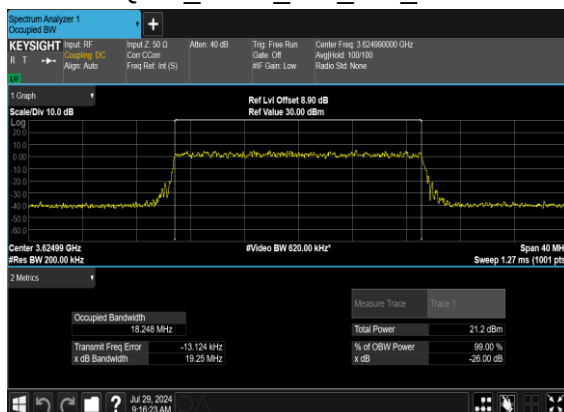
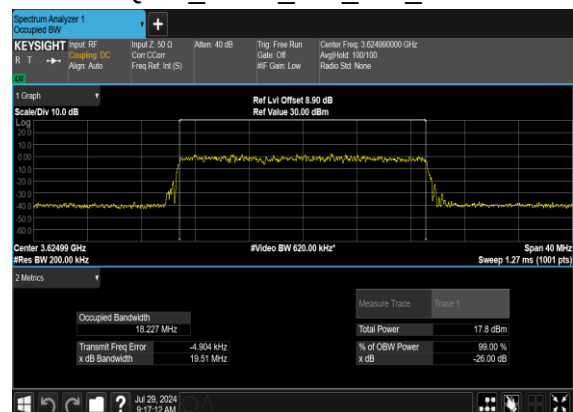


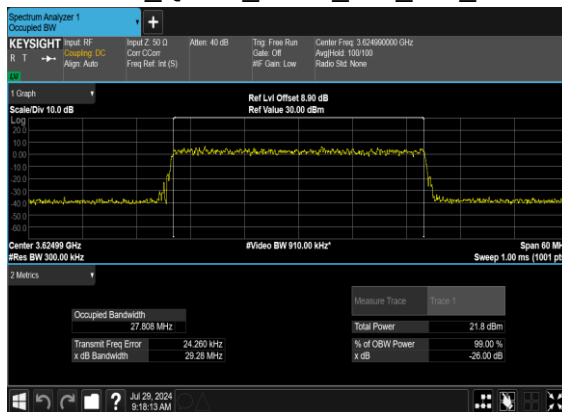
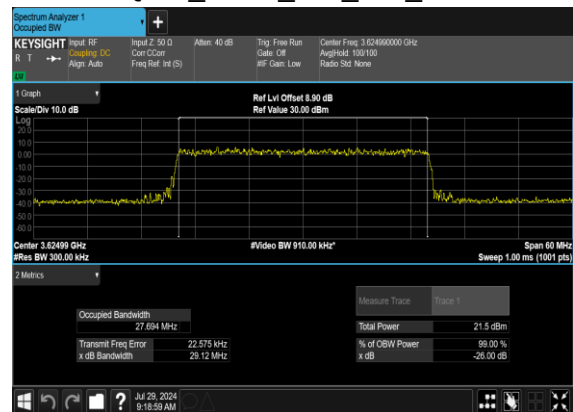
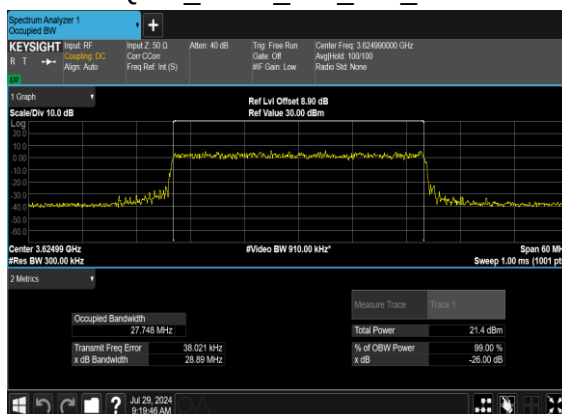
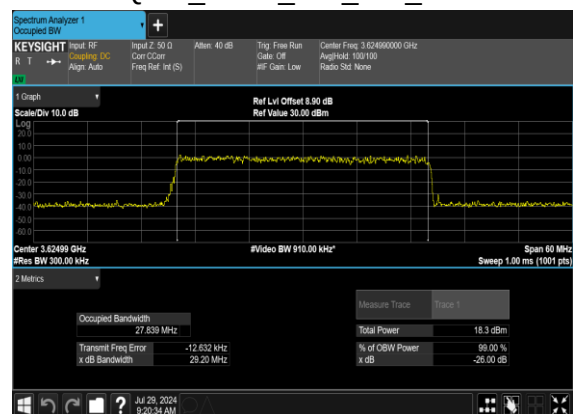
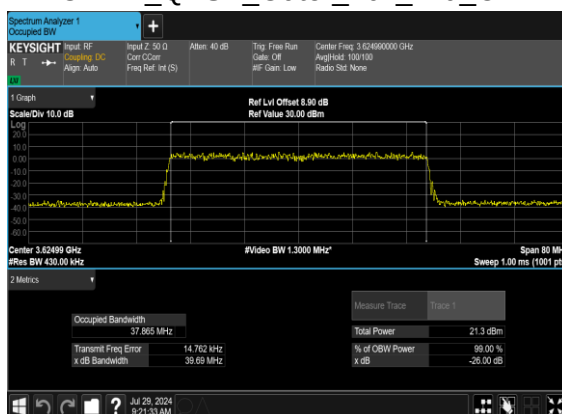
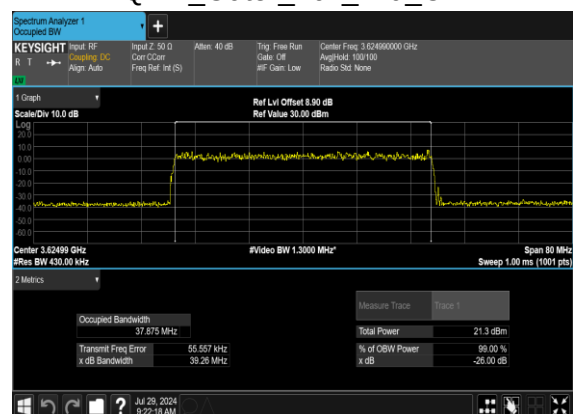
N48(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH

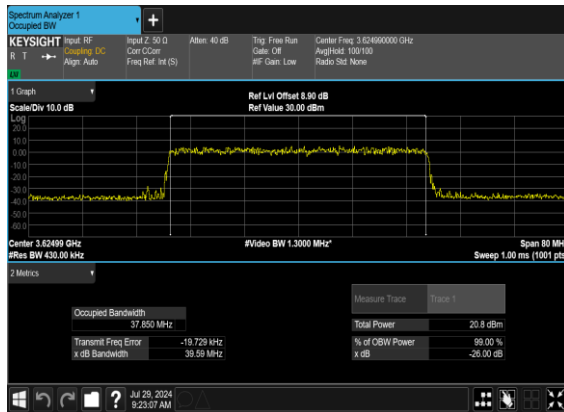


N48(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CHN48(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CHN48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CHN48(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CHN48(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CHN48(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

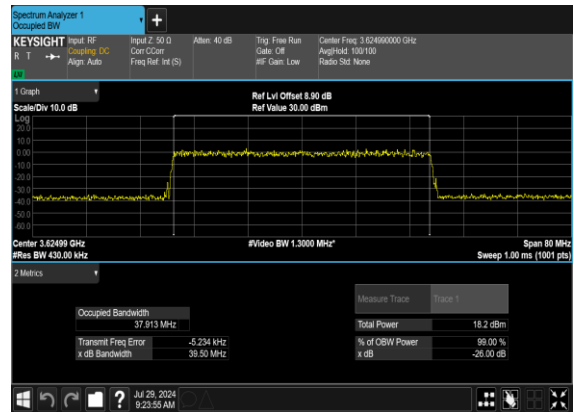
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CHN48(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CHN48(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CHN48(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CHN48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CHN48(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Adjacent Channel Leakage Ratio

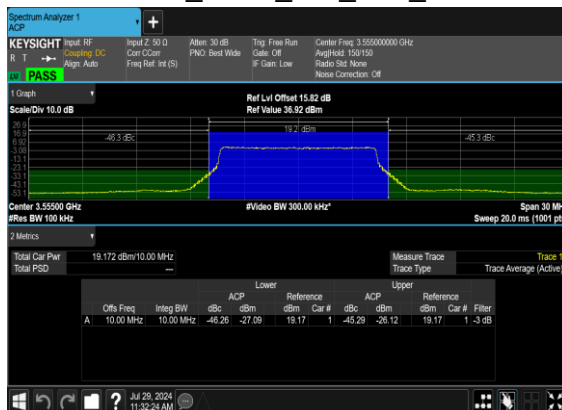
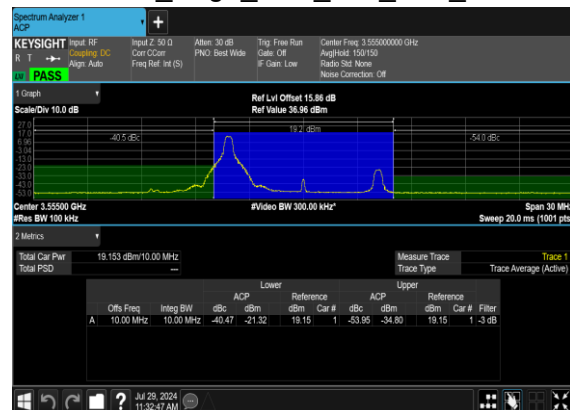
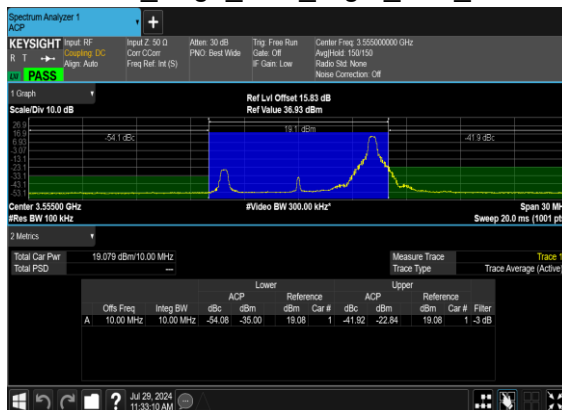
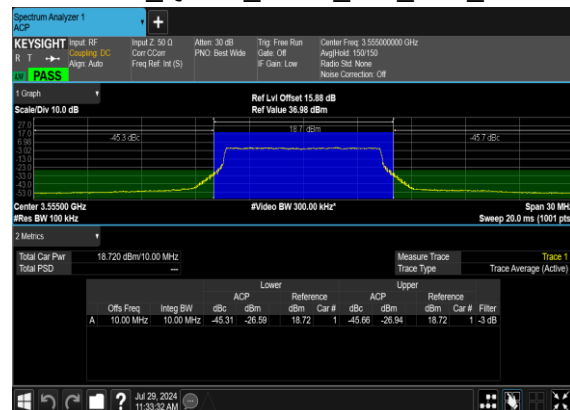
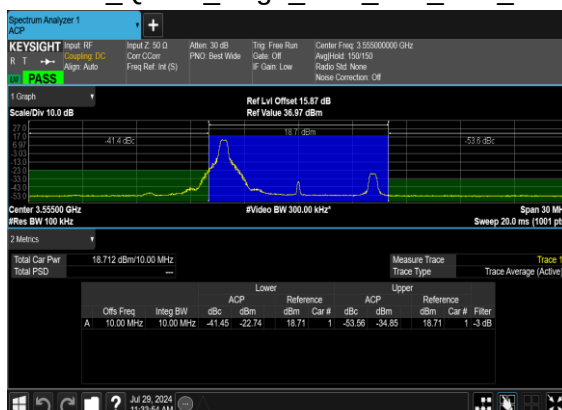
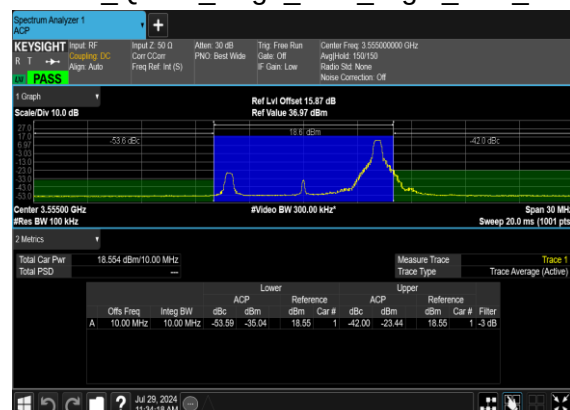
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	24@0	-16.26	-15.29	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.47	-23.95	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@23	-24.08	-11.92	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	-15.31	-15.66	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-11.45	-23.56	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	-23.59	-12.0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	-16.76	-14.43	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-10.29	-22.81	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@23	-19.03	-10.04	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	-15.08	-16.17	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-10.48	-21.91	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	-22.87	-13.75	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	24@0	-15.6	-15.13	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-10.93	-20.77	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@23	-21.41	-11.78	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	-14.54	-14.8	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-10.72	-20.44	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	-20.79	-12.48	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	50@0	-18.54	-19.11	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-12.13	-20.46	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@50	-20.17	-13.09	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	-18.37	-18.79	see graph	PASS

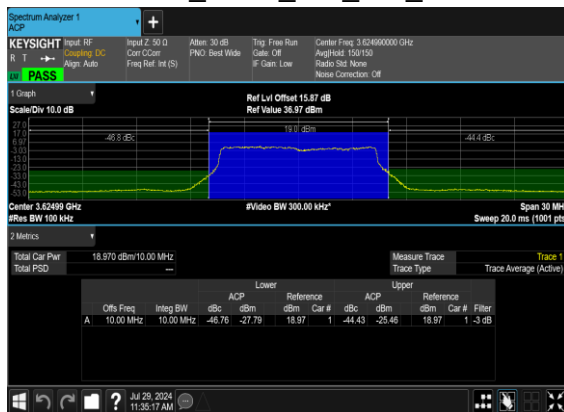
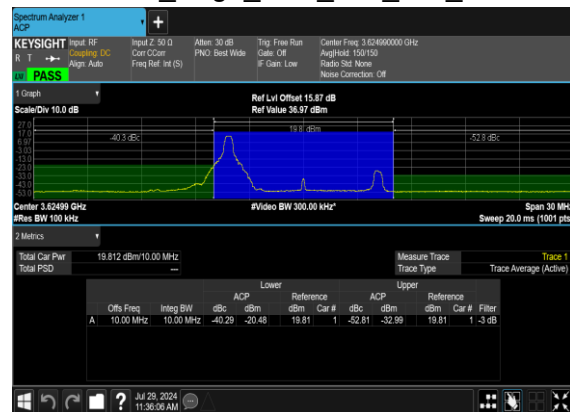
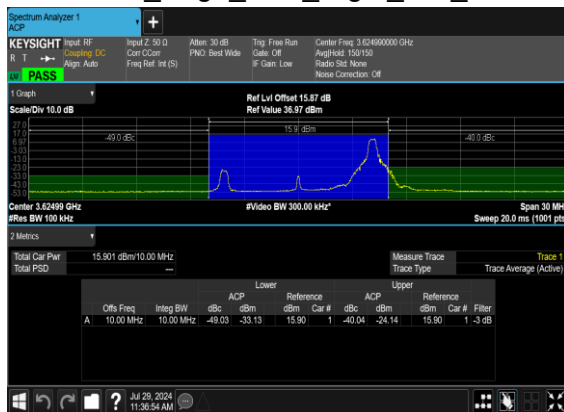
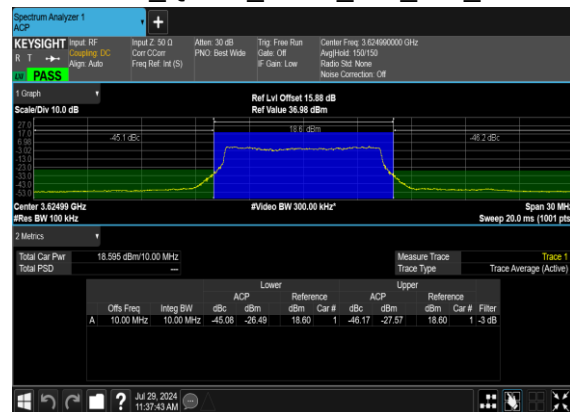
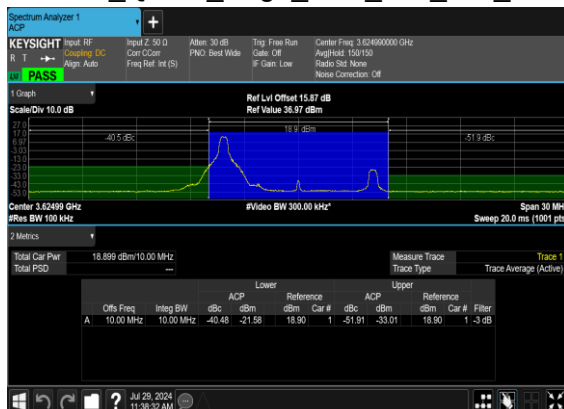
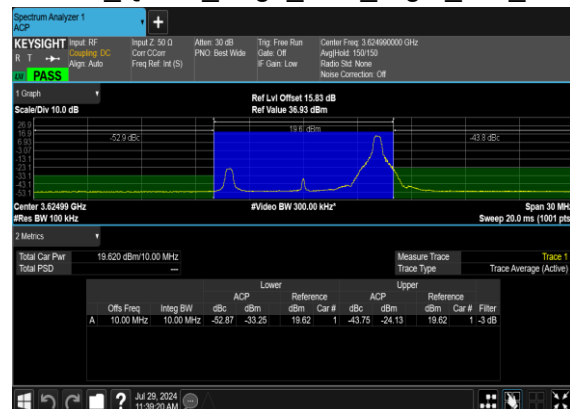


48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-13.0	-21.77	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	-21.47	-13.37	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-17.18	-17.79	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-11.76	-18.65	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@50	-19.14	-13.2	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-16.97	-16.8	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.28	-19.29	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	-19.0	-13.34	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	50@0	-17.18	-17.05	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-11.09	-17.62	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@50	-18.52	-12.66	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	-15.84	-15.95	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-11.79	-18.22	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	-18.36	-13.04	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	100@0	-16.12	-15.47	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-13.73	-15.87	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@105	-17.11	-13.99	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	-15.63	-14.81	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-12.45	-15.04	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	-16.06	-13.29	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-16.35	-15.32	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-14.65	-16.85	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-15.74	-13.01	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	-15.6	-14.65	see graph	PASS

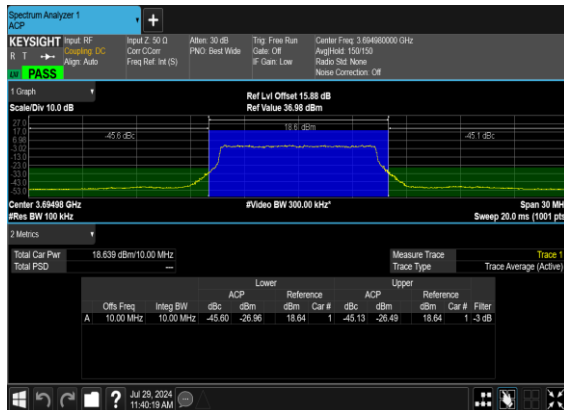


48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-13.37	-15.84	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	-16.85	-13.83	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	100@0	-15.34	-14.8	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-13.72	-15.76	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@105	-15.42	-12.61	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	-14.69	-14.19	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-12.96	-14.77	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	-15.67	-12.59	see graph	PASS

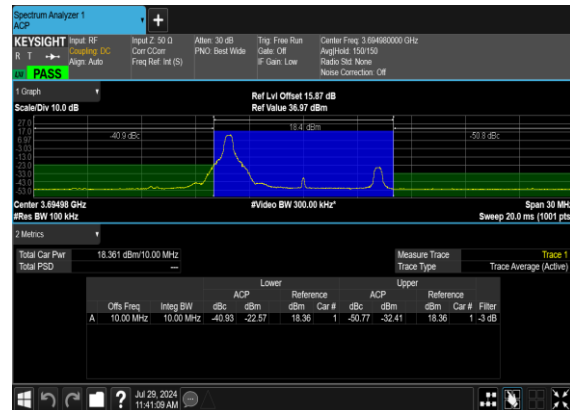
N48(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CHN48(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CHN48(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Low_CHN48(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Low_CH

N48(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CHN48(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CHN48(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Mid_CHN48(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CHN48(10M)_DFT-s-
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OFDM_QPSK_Edge_1RB_Right_Mid_CH

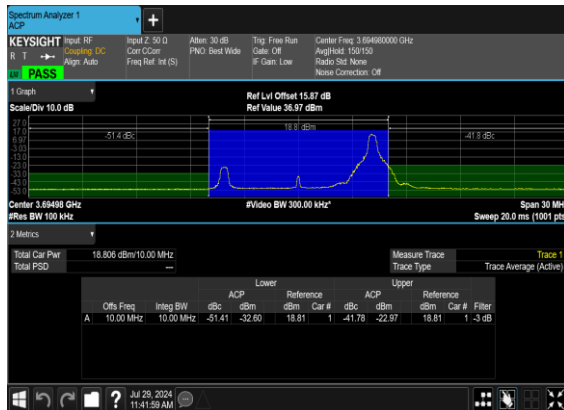
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BPSK_Outer_Full_High_CH



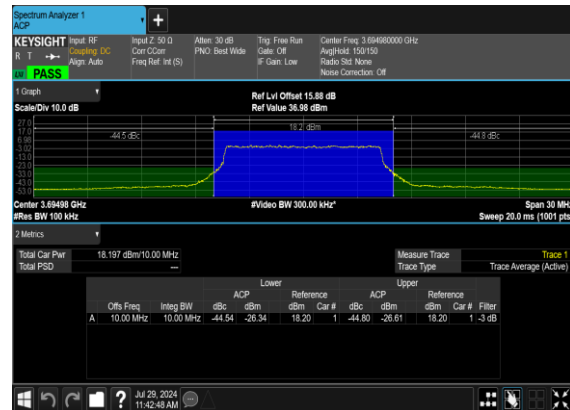
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BPSK_Edge_1RB_Left_High_CH



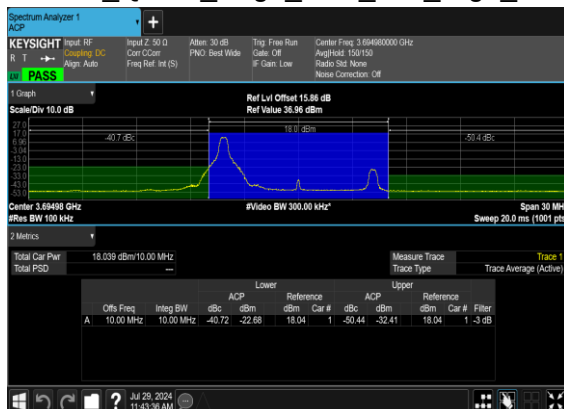
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BPSK_Edge_1RB_Right_High_CH



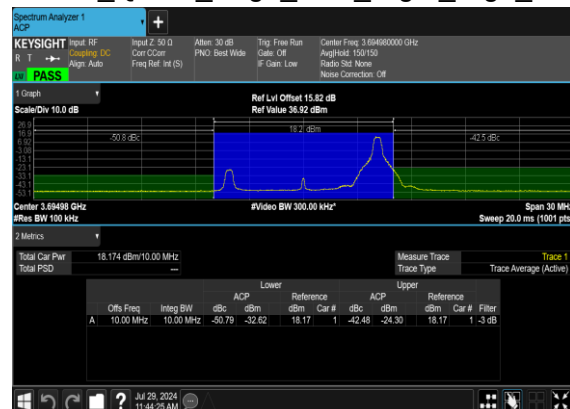
N48(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

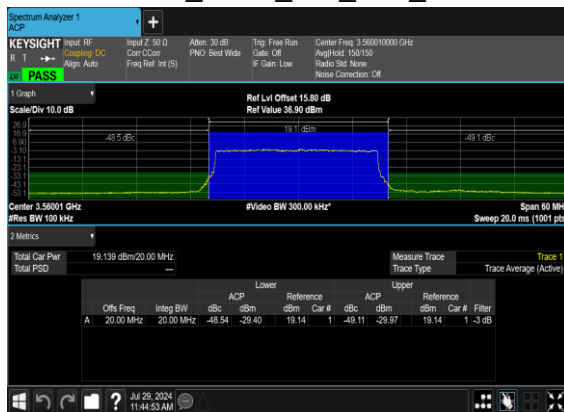
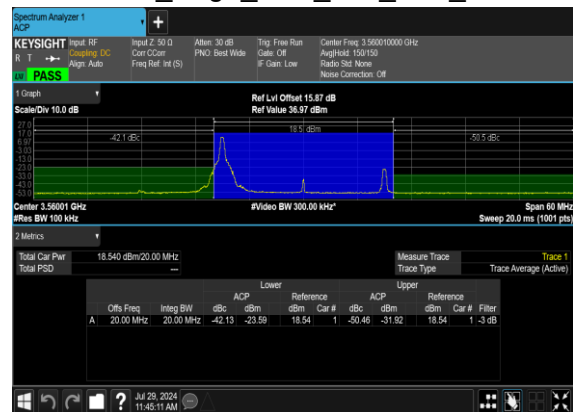
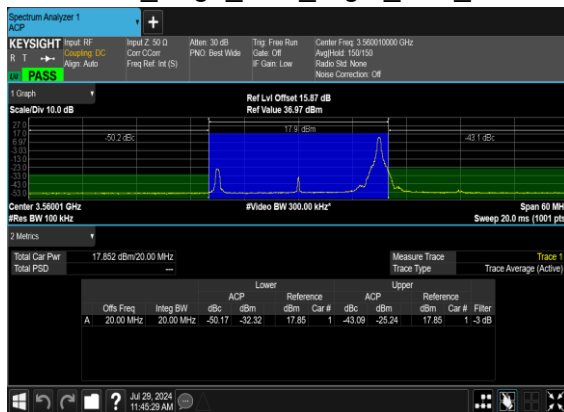
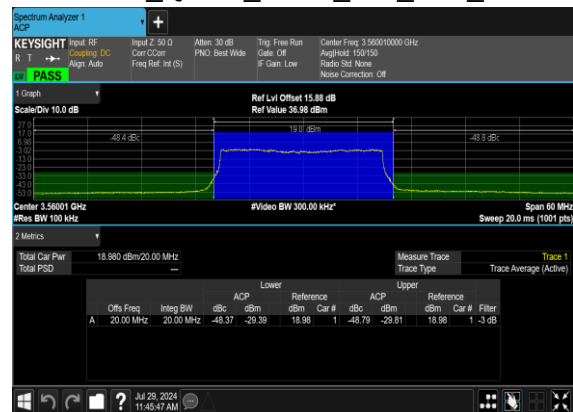
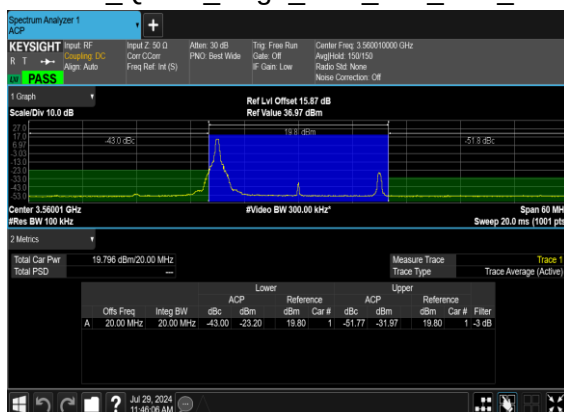
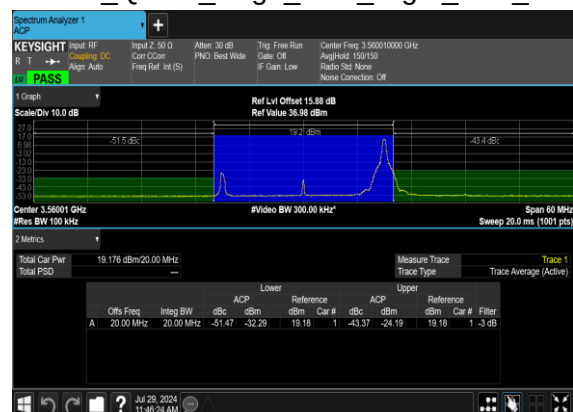


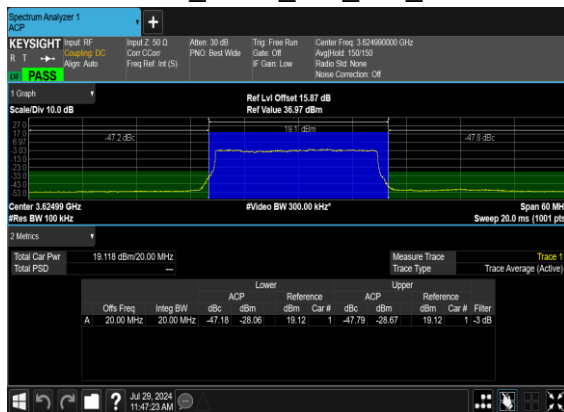
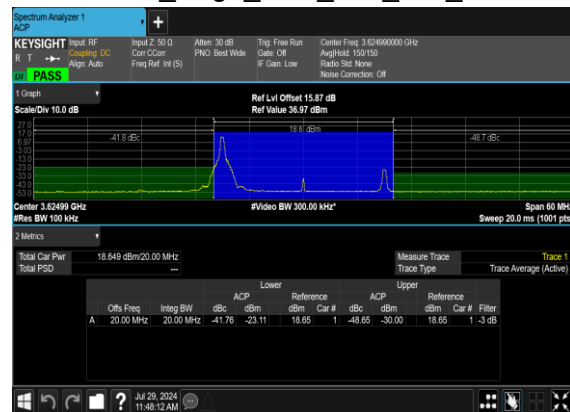
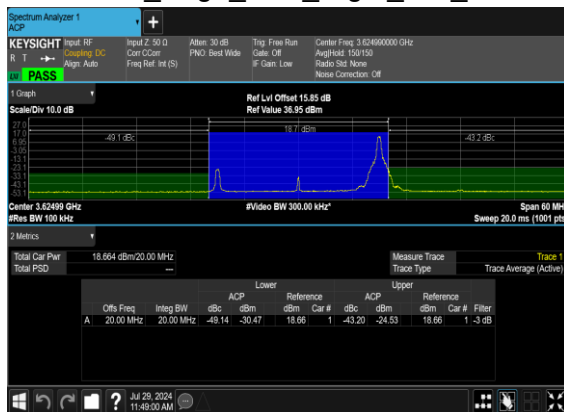
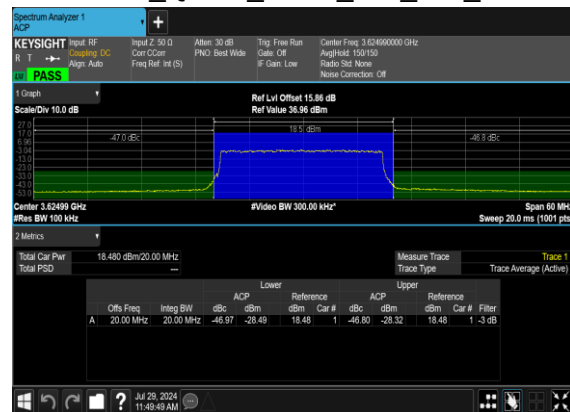
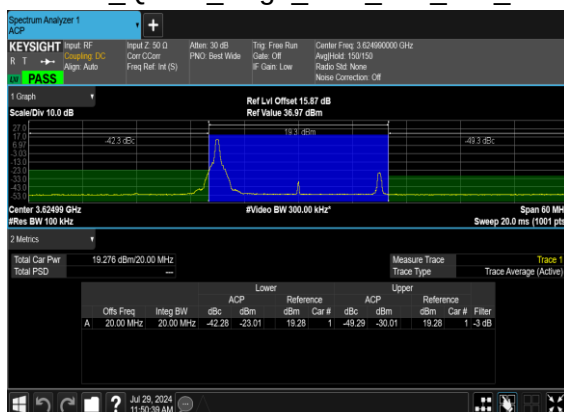
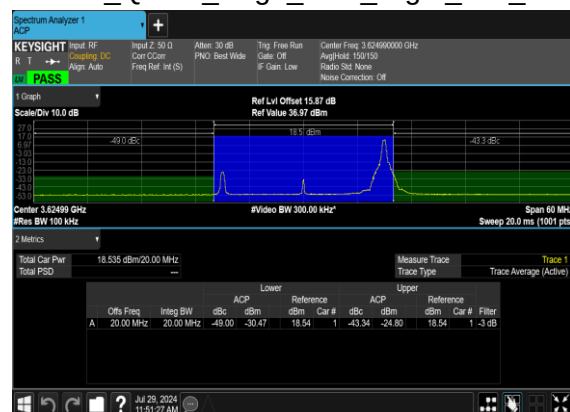
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

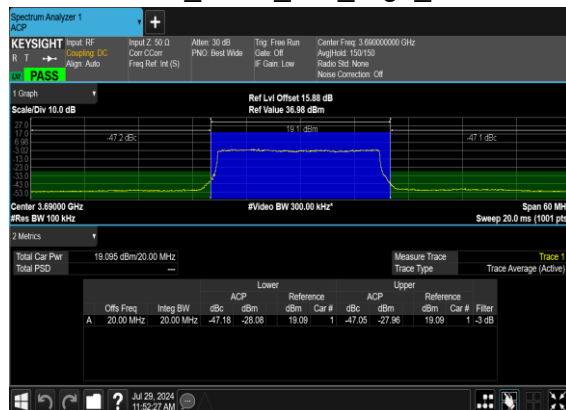
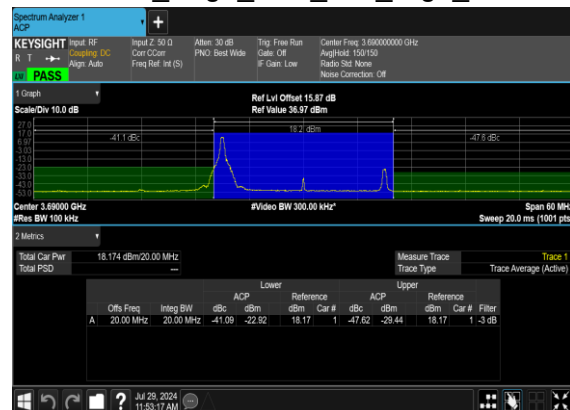
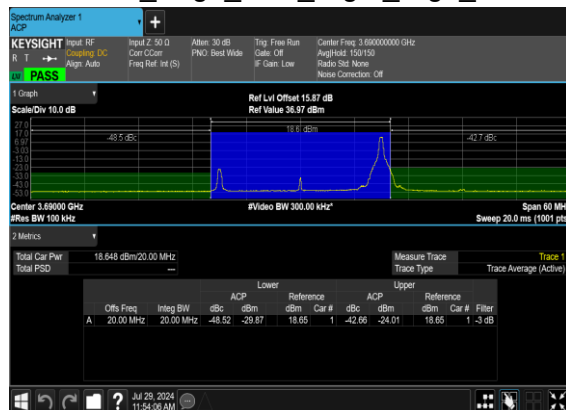
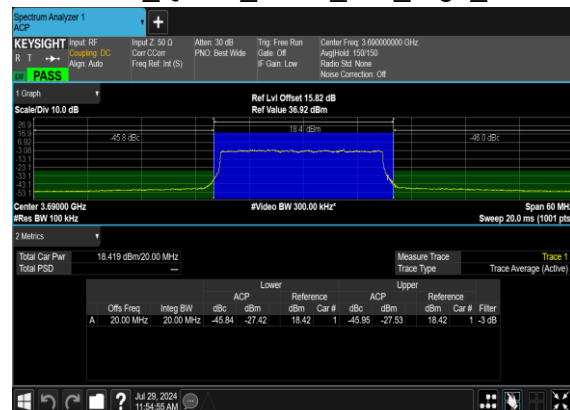
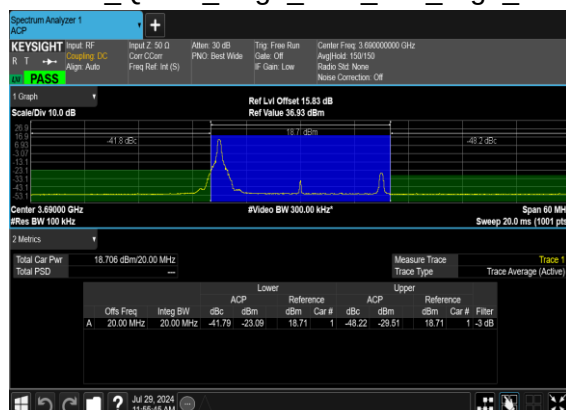
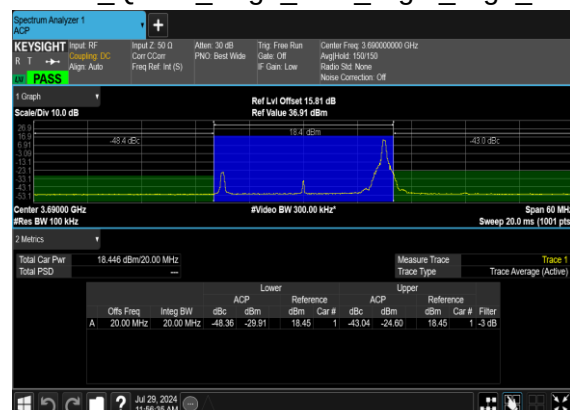


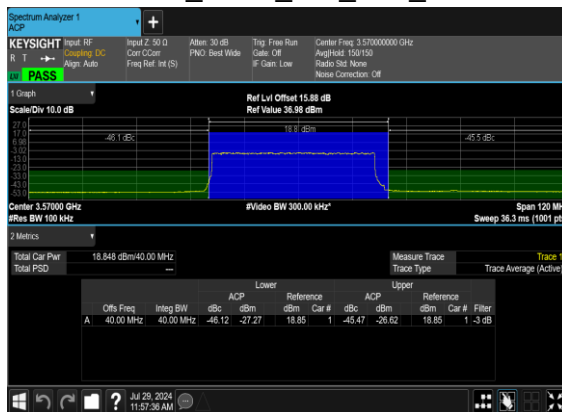
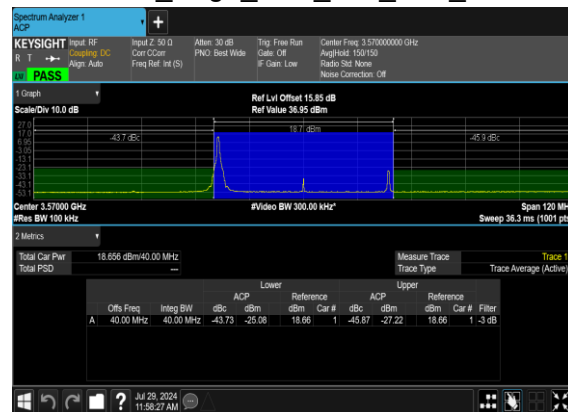
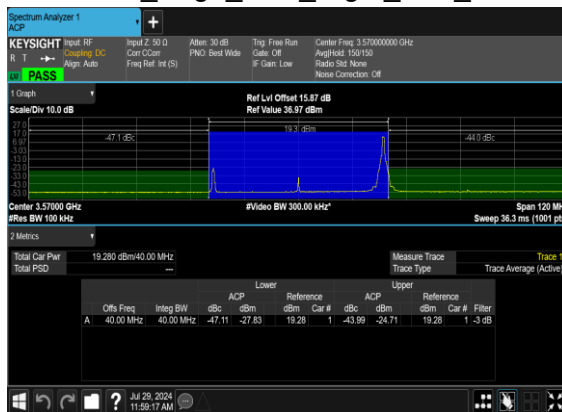
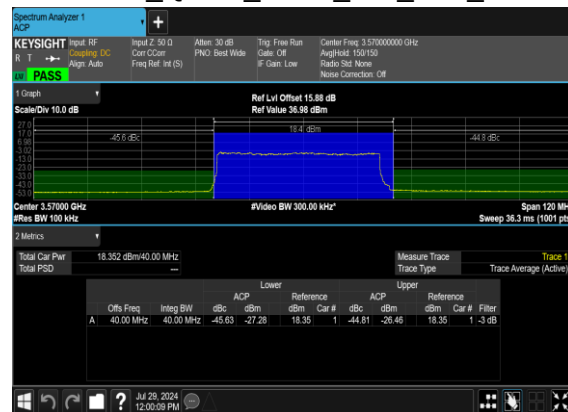
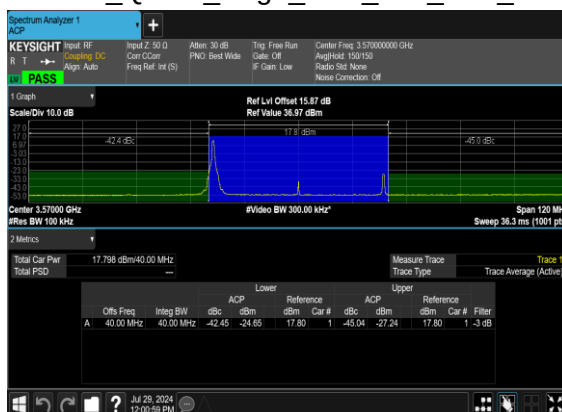
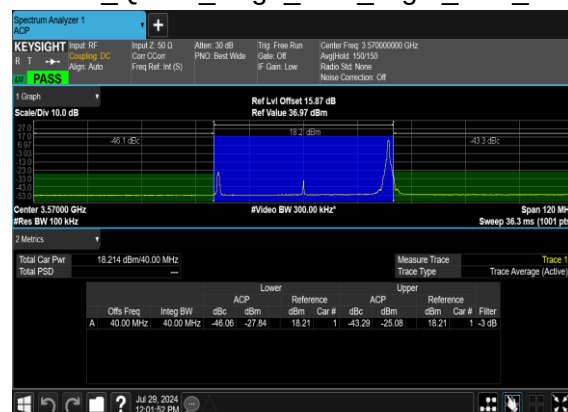
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

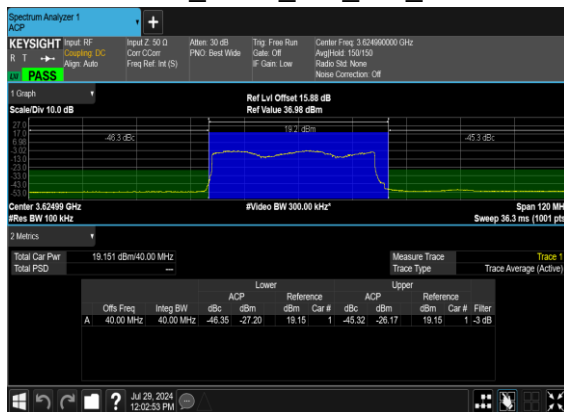
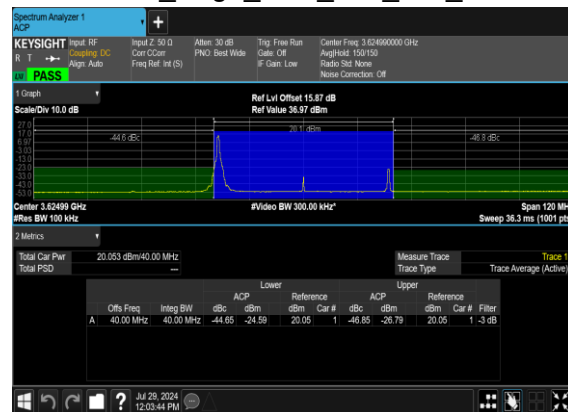
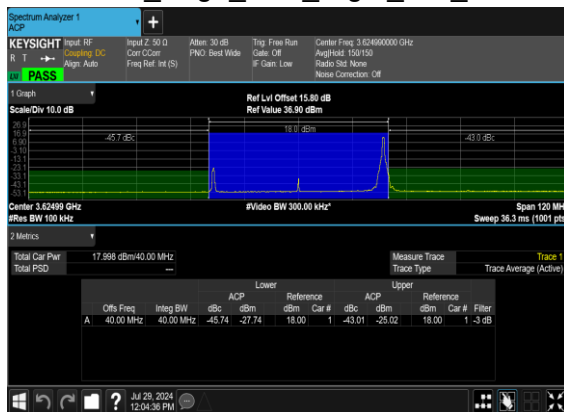
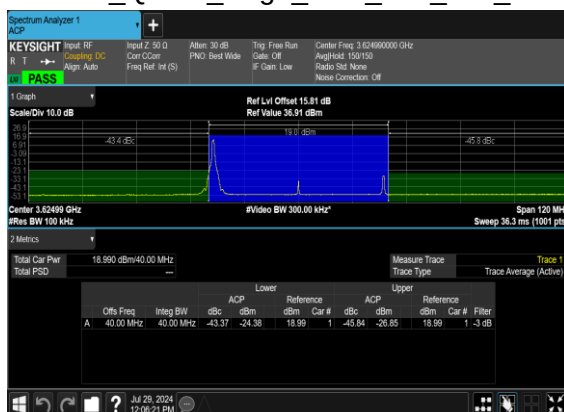
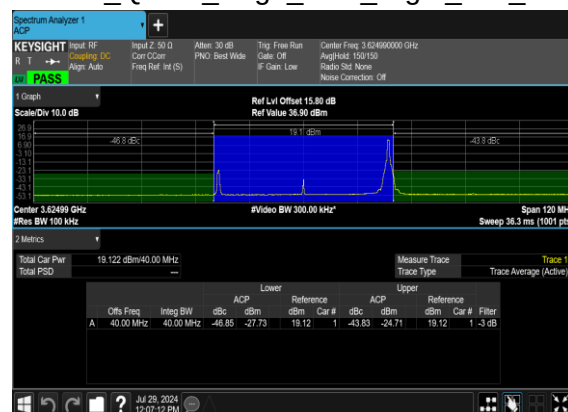


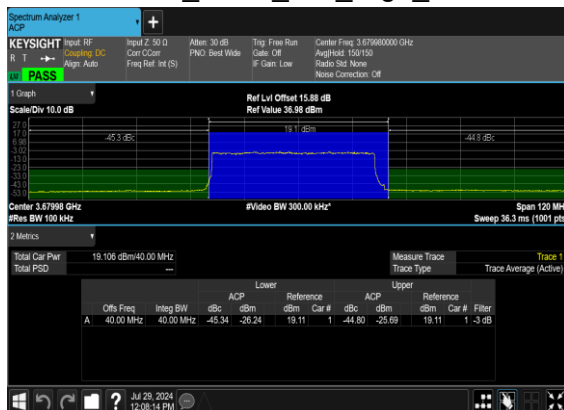
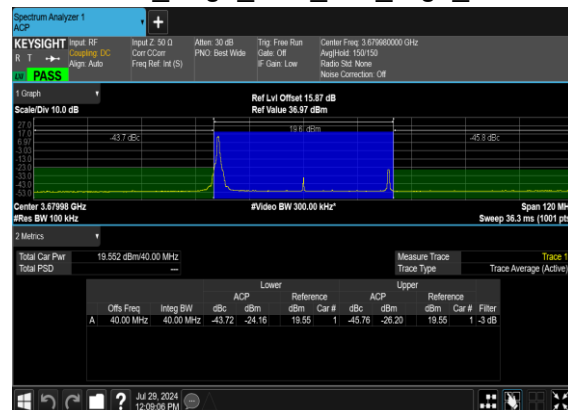
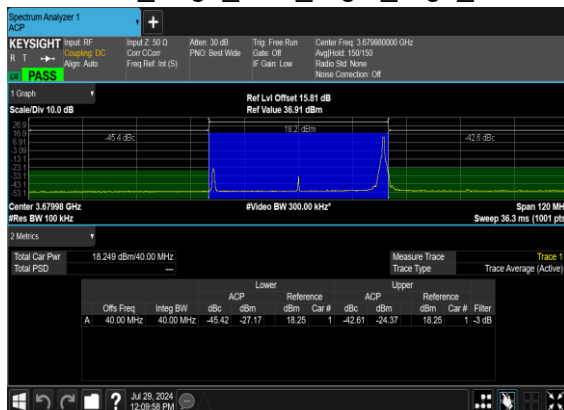
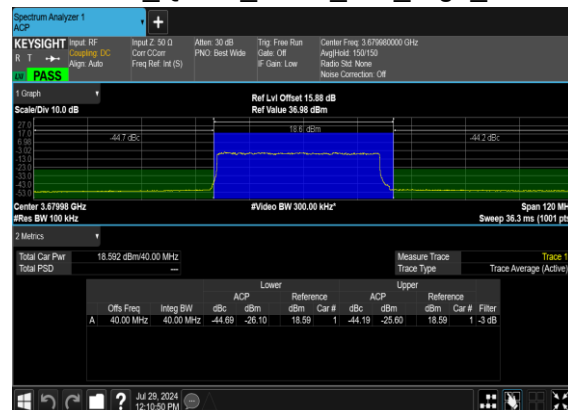
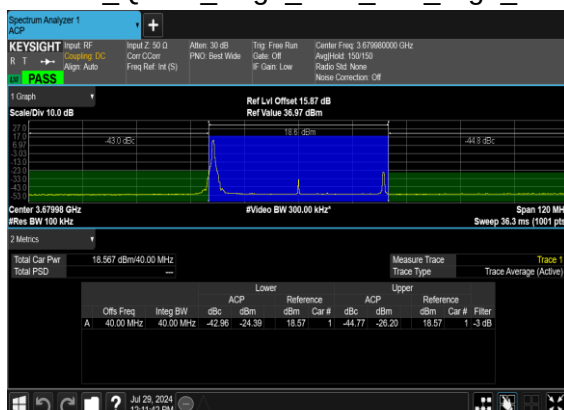
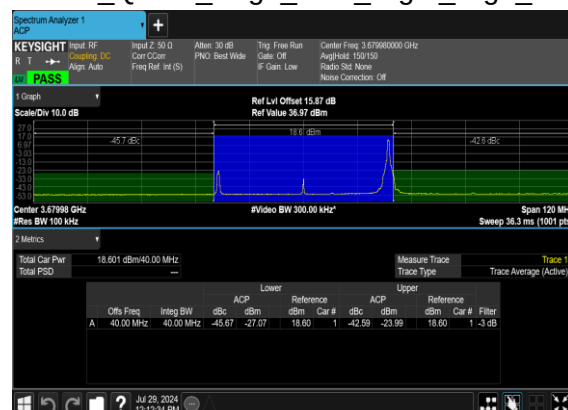
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CHN48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CHN48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Low_CHN48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CHN48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Low_CH

N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CHN48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CHN48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Mid_CHN48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CHN48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CHN48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CHN48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_High_CHN48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CHN48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CHN48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

N48(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CHN48(40M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CHN48(40M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Low_CHN48(40M)_DFT-s-
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OFDM_QPSK_Edge_1RB_Right_Low_CH

N48(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CHN48(40M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CHN48(40M)_DFT-s-OFDM_PI_2-
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OFDM_QPSK_Edge_1RB_Right_Mid_CH

N48(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CHN48(40M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CHN48(40M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_High_CHN48(40M)_DFT-s-
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OFDM_QPSK_Edge_1RB_Left_High_CHN48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



Conducted Spurious Emissions

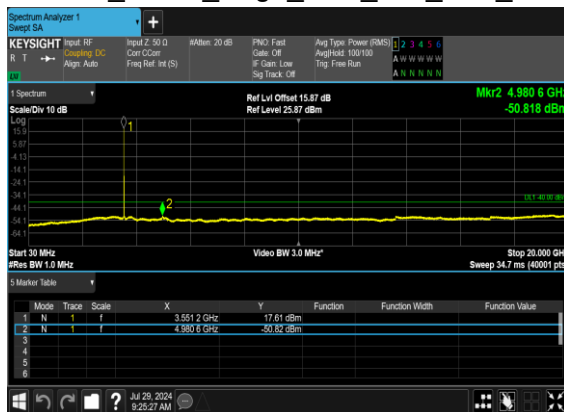
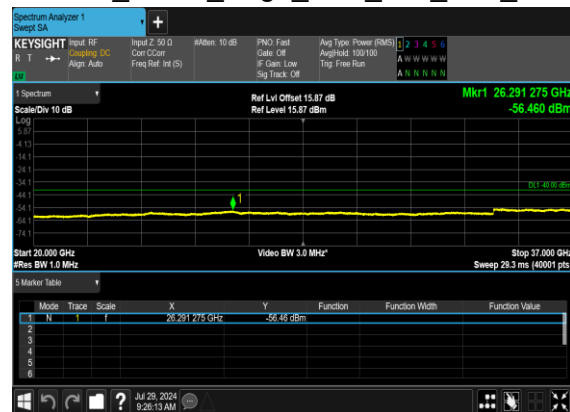
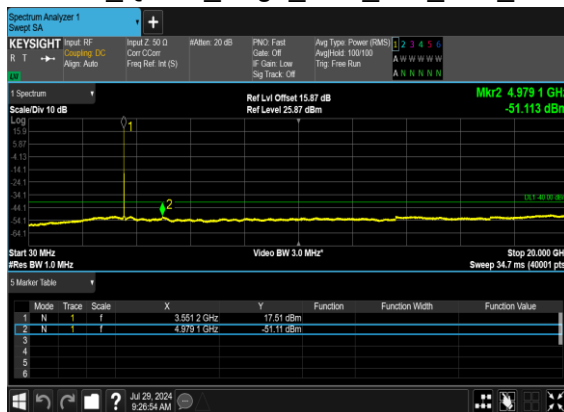
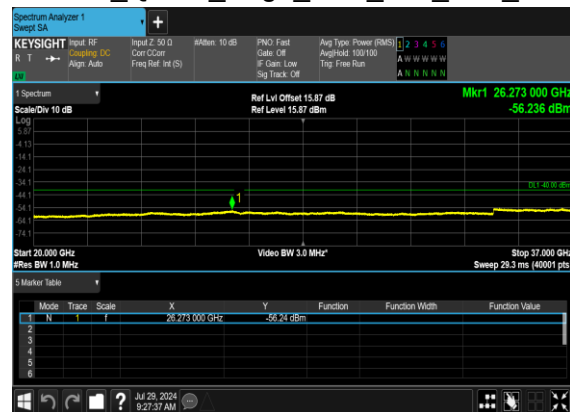
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	---
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	---

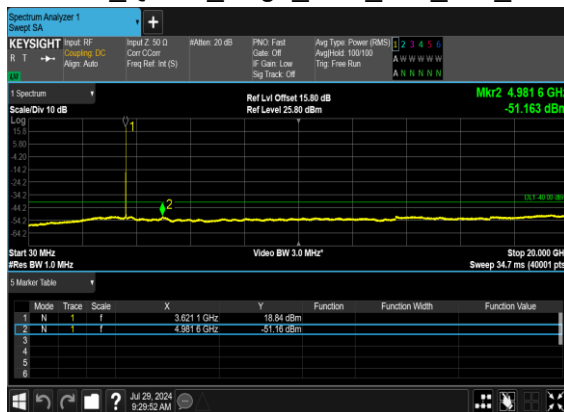
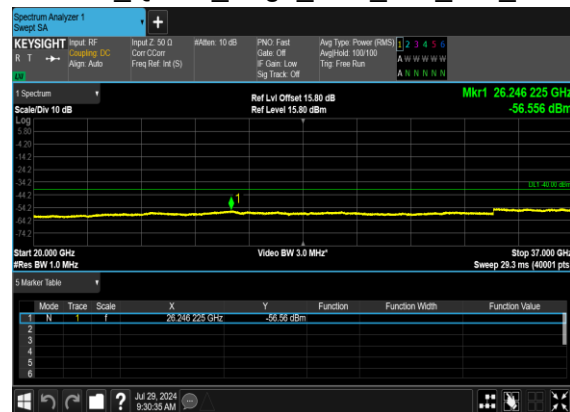
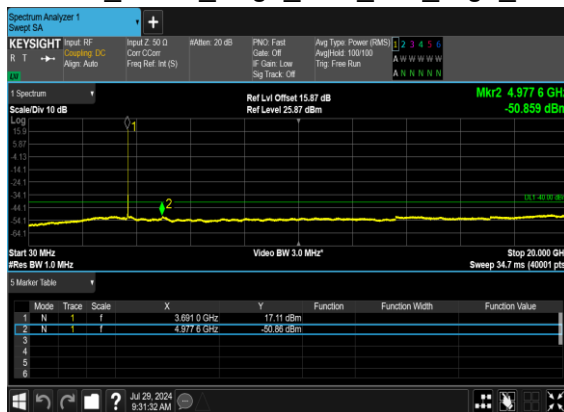
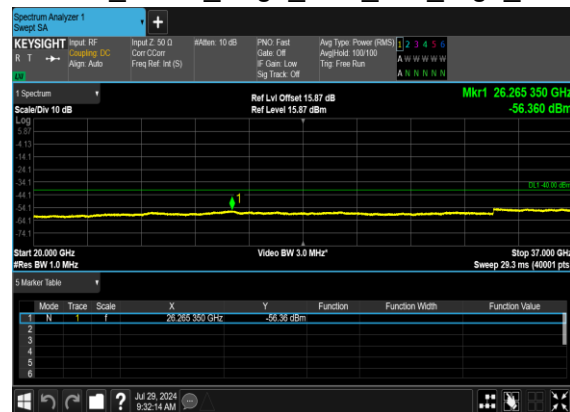


48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	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_CHN48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN48(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CHN48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH