



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2551-1, XT2551-2, XT2551-6
FCC ID : IHDT56AU1
STANDARD : 47 CFR Part 22, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 15, 2024 ~ Dec. 31, 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 C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4N2802M	Rev. 01	Initial issue of report	Jan. 10, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5, n26)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (5G NR n12, n71)	ERP < 3 Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §27.53(g)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n12, n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §27.53(g)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n12, n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §27.53(g)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n12, n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 30.26 dB at 2104.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2551-1, XT2551-2, XT2551-6
FCC ID	IHDT56AU1
IMEI Code	Conducted : 350086570033998/350086570034004 Radiation : 350086570035852/350086570035860
HW Version	DVT2
SW Version	V2VL35.5
EUT Stage	Identical Prototype

Note : The three model name XT2551-1, XT2551-2, XT2551-6 are the same product except model name different for market segment.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n5 : 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n26 : 824 MHz ~ 849 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n5 : 869 MHz ~ 894 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n26 : 869 MHz ~ 894 MHz 5G NR n71: 617 MHz ~ 652 MHz
Bandwidth	n5 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz(Downlink only) n26 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz(Downlink only) / 30MHz(Downlink only) n12 : 5MHz / 10MHz / 15MHz n71 : 5MHz / 10MHz / 15MHz/ 20MHz / 25MHz/ 30MHz / 35MHz
SCS	15kHz
Antenna Gain	<Ant. 0>: n5: -6.1 dBi n12: -5.5 dBi n26: -5.7 dBi n71: -4.3 dBi

	<Ant. 1>: n5: -4.2 dBi n12: -3.5 dBi n26: -4.2 dBi n71: -4.4 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum ERP is calculated from max output power and max antenna gain, only the maximum ERP are shown in the report, 5G NR n5/n12/n26/ for Ant. 1 and n71 for Ant. 0.
2. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
3. 5G NR support SA (n5/n12/n26/n71) mode and NSA(n5/n12/n26/n71) mode. According to the maximum power between SA and NSA mode, SA covers NSA mode for (n5/n12/n26/n71).
4. The EN-DC mode combination could be referred to the product spec.
5. 5G NR n5/n12/n26/n71 supports two paths, we chose higher power of 1st path to test.

1.5 Modification of EUT

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

1.6 Maximum ERP and Emission Designator

5G NR n5		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0480	4M47G7D	0.0385	4M49W7D
10	829.0 ~ 844.0	0.0475	9M28G7D	0.0378	9M30W7D
15	831.5 ~ 841.5	0.0467	14M1G7D	0.0387	14M1W7D
20	834.0 ~ 839.0	0.0508	18M9G7D	0.0391	19M0W7D

5G NR n26		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0467	4M47G7D	0.0394	4M49W7D
10	829.0 ~ 844.0	0.0489	9M28G7D	0.0390	9M30W7D
15	831.5 ~ 841.5	0.0476	14M1G7D	0.0380	14M1W7D
20	834.0 ~ 839.0	0.0462	18M9G7D	0.0377	19M0W7D



5G NR n12		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	701.5 ~ 713.5	0.0593	4M48G7D	0.0490	4M48W7D
10	704.0~ 711.0	0.0607	9M26G7D	0.0501	9M28W7D
15	706.5 ~ 708.5	0.0618	14M1G7D	0.0502	14M1W7D

5G NR n71		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.0493	4M47G7D	0.0408	4M50W7D
10	668.0 ~ 693.0	0.0491	9M28G7D	0.0404	9M29W7D
15	670.5 ~ 690.5	0.0504	14M1G7D	0.0408	14M1W7D
20	673.0 ~ 688.0	0.0497	18M9G7D	0.0398	19M0W7D
25	675.5 ~ 685.5	0.0497	23M7G7D	0.0411	23M7W7D
30	678.0 ~ 683.0	0.0486	28M5G7D	0.0394	28M6W7D
35	680.5	0.0497	33M4G7D	0.0393	33M4W7D

Note:

- 5G NR n26 overlaps the entire frequency range of 5G NR n5. Therefore, the test results provided in this report covers 5G NR n26 as well as 5G NR n5.
- All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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.
	03CH03-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH03-KS	AUDIX	E3	210616

1.9 Applicable Standards

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

- ♦ 47 CFR Part 22, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.



1.10 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-683N
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-685N
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-686N
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-687N
AC Adapter 1(Chile)	Brand Name	Motorola(Chenyang)	Model Name	MC-689N
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-683N
AC Adapter 2(AU)	Brand Name	Motorola(Acbel)	Model Name	MC-685N
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-686N
AC Adapter 2(BR)	Brand Name	Motorola(Acbel)	Model Name	MC-687N
Battery 1	Brand Name	Motorola(ATL)	Model Name	RS13
Battery 2	Brand Name	Motorola(ATL)	Model Name	RS35
USB Cable 1	Brand Name	Motorola(saibao)	Model Name	SC18D71644
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 3	Brand Name	Motorola(saibao)	Model Name	SC18D86731
USB Cable 4	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

The EUT is a folding phone, pretest the open status and closed status, only the worst status perform final test and record in the report. For the accessories, pretest standalone mode / Earphone mode / Adapter mode / Wireless charging mode, only the worst status perform final test and record in the report.

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

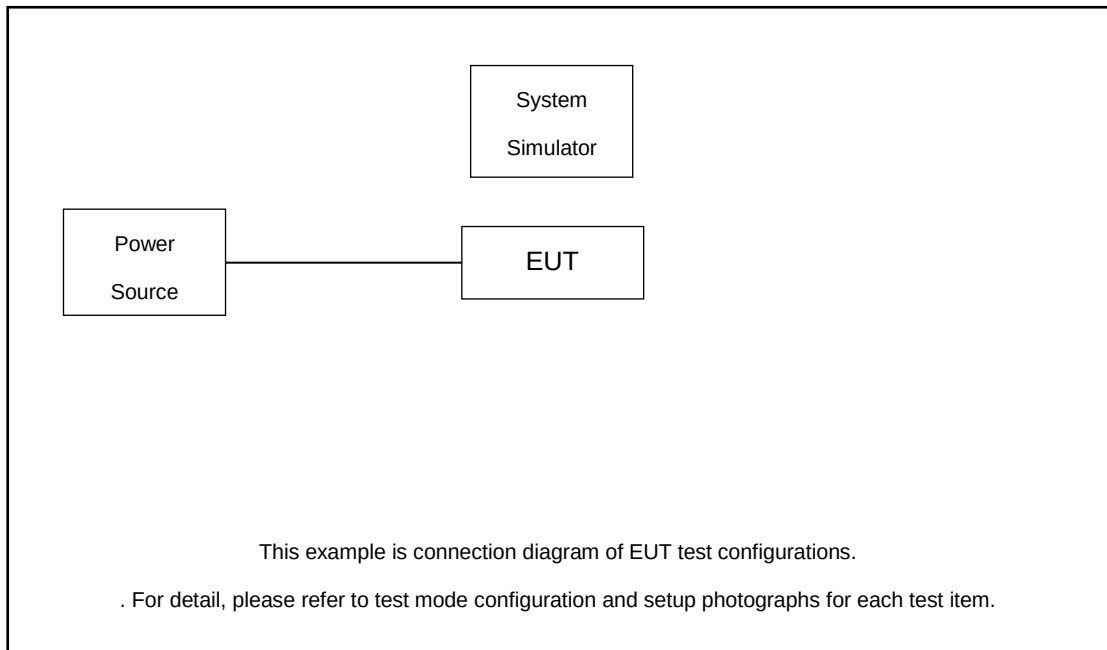
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	35	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n12			v	-	-	-	-	-	-	-	-	-	-	v	v				v	v		v	
	n26				v	-	-	-	-	-	-	-	-	-	v	v				v	v		v	
	n71				v				-	-	-	-	-	-	v	v				v	v		v	
26dB and 99% Bandwidth	n12	v	v	v	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n71	v	v	v	v	v	v	v	-	-	-	-	-	-		v	v	v	v		v		v	
Conducted Band Edge	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n26	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n71	v			v			v	-	-	-	-	-	-	v	v				v	v	v		v
Conducted	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v



Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	35	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Spurious Emission	n26	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n71	v			v			v	-	-	-	-	-	-	v	v				v		v	v	v
Frequency Stability	n12			v	-	-	-	-	-	-	-	-	-	-		v						v	v	
	n26				v	-	-	-	-	-	-	-	-	-		v						v	v	
	n71				v				-	-	-	-	-	-		v						v	v	
E.R.P	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n12	Worst Case																				v		
	n26	Worst Case																				v		
	n71	Worst Case																				v		
Note	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. Frequency Stability : Normal Voltage = 3.86V ; Low Voltage =3.50V. ; High Voltage =4.53V																							

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

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 and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.8 dB and 20dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.8 + 20 = 24.8 \text{ (dB)}\end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5



5G NR n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR n26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
35	Channel	136100		
	Frequency	680.5		
30	Channel	135600	136100	136600
	Frequency	678	680.5	683
25	Channel	135100	136100	137100
	Frequency	675.5	680.5	685.5
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

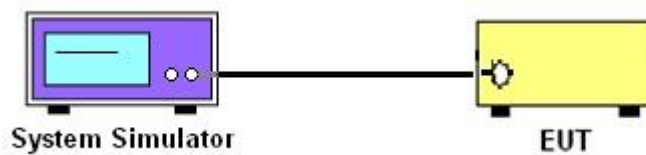
3 Conducted Test Items

3.1 Measuring Instruments

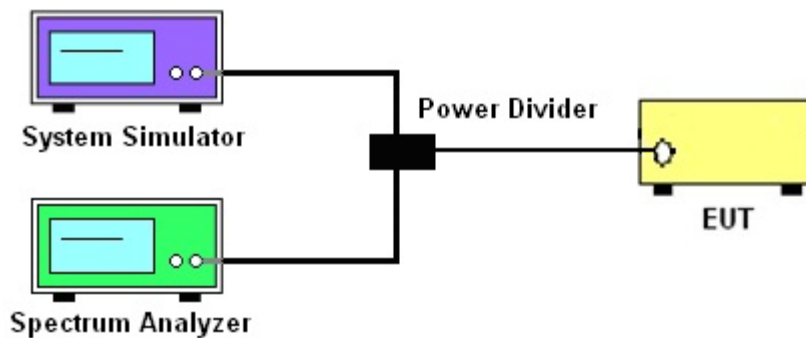
See list of measuring instruments of this test report.

3.2 Test Setup

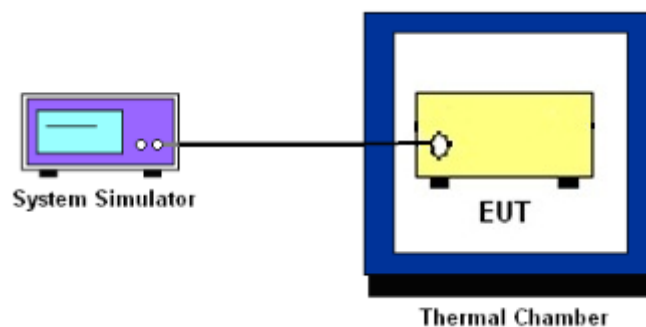
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP

3.4.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5, n26.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12, n71.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

3.7.2 Test Procedures

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

Example:

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

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

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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

3.8.2 Test Procedures

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

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

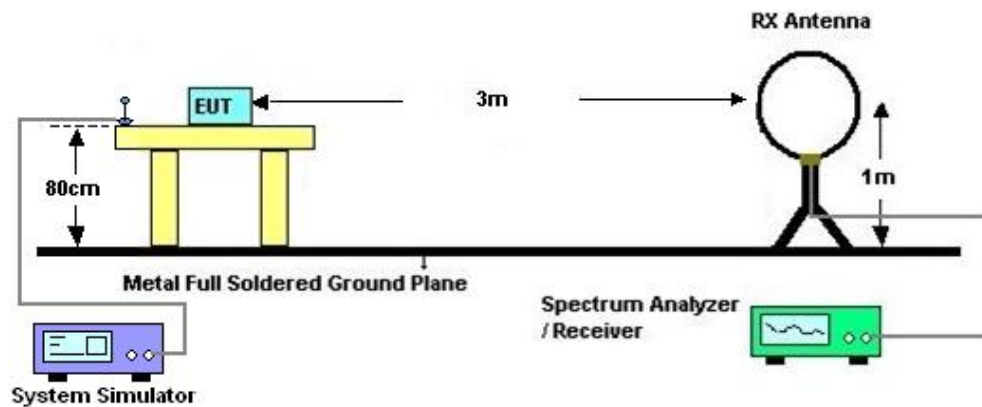
4 Radiated Test Items

4.1 Measuring Instruments

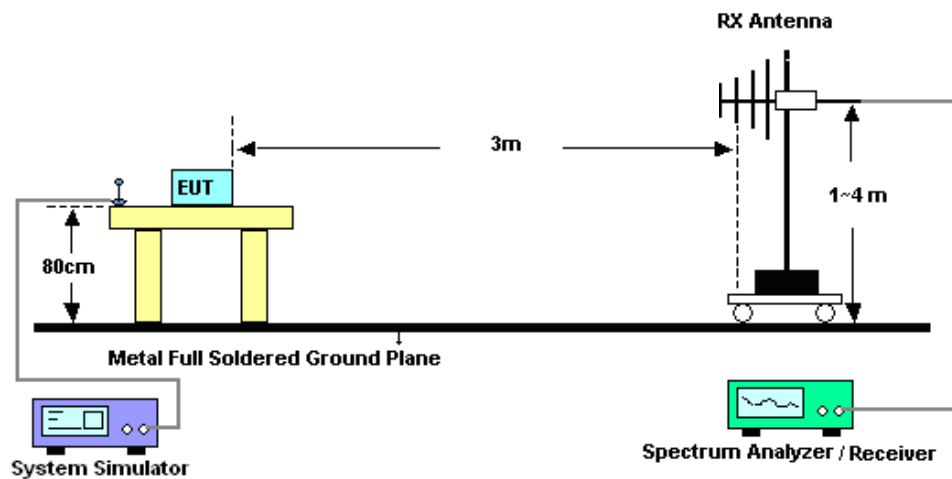
See list of measuring instruments of this test report.

4.2 Test Setup

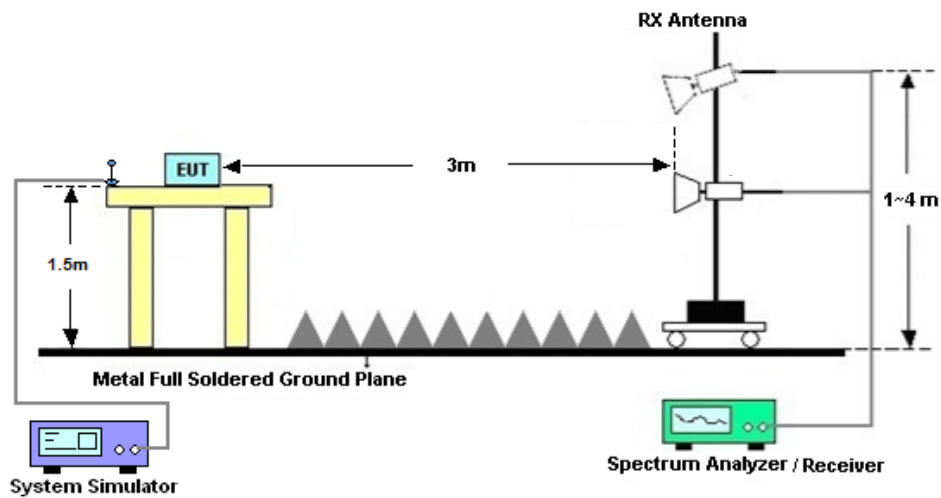
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

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

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

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

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

$$= -13\text{dBm}.$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Dec. 15, 2024~ Dec. 31, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Dec. 15, 2024~ Dec. 31, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Dec. 15, 2024~ Dec. 31, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 11, 2024	Dec. 31, 2024	Oct. 10, 2025	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2024	Dec. 31, 2024	Apr. 17, 2025	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Dec. 31, 2024	Sep. 07, 2025	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz~1GHz	Dec. 05, 2024	Dec. 31, 2024	Dec. 04, 2025	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 16, 2024	Dec. 31, 2024	Aug. 15, 2025	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Dec. 31, 2024	Jan. 05, 2025	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	413740	30MHz ~1000MHz	Jan. 03, 2024	Dec. 31, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	EM	EM18G40G A	060851	18~40GHz	Jan. 03, 2024	Dec. 31, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2082394	1Ghz-18Ghz	Jan. 03, 2024	Dec. 31, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY53270319	1GHz~26.5GHz	Oct. 09, 2024	Dec. 31, 2024	Oct. 08, 2025	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 31, 2024	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 31, 2024	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 31, 2024	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.04ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%



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Transmitter Conducted Output Power And ERP, (G_T - L_C)=-4.2dB

NR Band	SCS	Bandwidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
5	15	5	165300	826.5	DFT-s-OFDM PI/2 BPSK	1@1	23.12	16.77	0.0475
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@1	23.16	16.81	0.0480
5	15	5	165300	826.5	DFT-s-OFDM 16 QAM	1@1	22.21	15.86	0.0385
5	15	5	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.83	16.48	0.0445
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@1	22.96	16.61	0.0458
5	15	5	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.05	15.70	0.0372
5	15	5	169300	846.5	DFT-s-OFDM PI/2 BPSK	1@1	22.76	16.41	0.0438
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@1	22.83	16.48	0.0445
5	15	5	169300	846.5	DFT-s-OFDM 16 QAM	1@1	21.89	15.54	0.0358
5	15	10	165800	829	DFT-s-OFDM PI/2 BPSK	1@1	23.05	16.70	0.0468
5	15	10	165800	829	DFT-s-OFDM QPSK	1@1	23.03	16.68	0.0466
5	15	10	165800	829	DFT-s-OFDM 16 QAM	1@1	22.12	15.77	0.0378
5	15	10	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.02	16.67	0.0465
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@1	23.12	16.77	0.0475
5	15	10	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.05	15.70	0.0372
5	15	10	168800	844	DFT-s-OFDM PI/2 BPSK	1@1	22.82	16.47	0.0444
5	15	10	168800	844	DFT-s-OFDM QPSK	1@1	22.95	16.60	0.0457
5	15	10	168800	844	DFT-s-OFDM 16 QAM	1@1	21.98	15.63	0.0366
5	15	15	166300	831.5	DFT-s-OFDM PI/2 BPSK	1@1	22.12	15.77	0.0378
5	15	15	166300	831.5	DFT-s-OFDM QPSK	1@1	22.95	16.60	0.0457
5	15	15	166300	831.5	DFT-s-OFDM 16 QAM	1@1	22.23	15.88	0.0387
5	15	15	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.05	15.70	0.0372
5	15	15	167300	836.5	DFT-s-OFDM QPSK	1@1	23.03	16.68	0.0466
5	15	15	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.15	15.80	0.0380
5	15	15	168300	841.5	DFT-s-OFDM PI/2 BPSK	1@1	23.04	16.69	0.0467
5	15	15	168300	841.5	DFT-s-OFDM QPSK	1@1	22.98	16.63	0.0460
5	15	15	168300	841.5	DFT-s-OFDM 16 QAM	1@1	22.05	15.70	0.0372
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	50@25	22.96	16.61	0.0458
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@1	23.12	16.77	0.0475
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@104	22.97	16.62	0.0459



5	15	20	166800	834	DFT-s-OFDM QPSK	50@25	22.89	16.54	0.0451
5	15	20	166800	834	DFT-s-OFDM QPSK	1@1	23.41	17.06	0.0508
5	15	20	166800	834	DFT-s-OFDM QPSK	1@104	22.86	16.51	0.0448
5	15	20	166800	834	DFT-s-OFDM 16 QAM	50@25	22.02	15.67	0.0369
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@1	22.17	15.82	0.0382
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@104	21.93	15.58	0.0361
5	15	20	166800	834	DFT-s-OFDM 64 QAM	50@25	20.54	14.19	0.0262
5	15	20	166800	834	DFT-s-OFDM 64 QAM	1@1	20.83	14.48	0.0281
5	15	20	166800	834	DFT-s-OFDM 64 QAM	1@104	20.52	14.17	0.0261
5	15	20	166800	834	DFT-s-OFDM 256 QAM	50@25	18.44	12.09	0.0162
5	15	20	166800	834	DFT-s-OFDM 256 QAM	1@1	18.05	11.70	0.0148
5	15	20	166800	834	DFT-s-OFDM 256 QAM	1@104	17.82	11.47	0.0140
5	15	20	166800	834	CP-OFDM QPSK	53@26	21.65	15.30	0.0339
5	15	20	166800	834	CP-OFDM QPSK	1@1	22.03	15.68	0.0370
5	15	20	166800	834	CP-OFDM QPSK	1@104	21.72	15.37	0.0344
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	50@25	22.96	16.61	0.0458
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.12	16.77	0.0475
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@104	22.84	16.49	0.0446
5	15	20	167300	836.5	DFT-s-OFDM QPSK	50@25	22.95	16.60	0.0457
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@1	23.21	16.86	0.0485
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@104	22.83	16.48	0.0445
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	50@25	21.98	15.63	0.0366
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.27	15.92	0.0391
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@104	21.83	15.48	0.0353
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	50@25	20.44	14.09	0.0256
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@1	20.87	14.52	0.0283
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@104	20.51	14.16	0.0261
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	50@25	18.32	11.97	0.0157
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@1	18.05	11.70	0.0148
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@104	17.86	11.51	0.0142
5	15	20	167300	836.5	CP-OFDM QPSK	53@26	21.54	15.19	0.0330
5	15	20	167300	836.5	CP-OFDM QPSK	1@1	22.05	15.70	0.0372
5	15	20	167300	836.5	CP-OFDM QPSK	1@104	21.73	15.38	0.0345
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	50@25	22.87	16.52	0.0449
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@1	23.15	16.80	0.0479
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@104	22.83	16.48	0.0445



5	15	20	167800	839	DFT-s-OFDM QPSK	50@25	22.81	16.46	0.0443
5	15	20	167800	839	DFT-s-OFDM QPSK	1@1	23.12	16.77	0.0475
5	15	20	167800	839	DFT-s-OFDM QPSK	1@104	22.86	16.51	0.0448
5	15	20	167800	839	DFT-s-OFDM 16 QAM	50@25	21.98	15.63	0.0366
5	15	20	167800	839	DFT-s-OFDM 16 QAM	1@1	22.12	15.77	0.0378
5	15	20	167800	839	DFT-s-OFDM 16 QAM	1@104	21.92	15.57	0.0361
5	15	20	167800	839	DFT-s-OFDM 64 QAM	50@25	20.44	14.09	0.0256
5	15	20	167800	839	DFT-s-OFDM 64 QAM	1@1	20.87	14.52	0.0283
5	15	20	167800	839	DFT-s-OFDM 64 QAM	1@104	20.53	14.18	0.0262
5	15	20	167800	839	DFT-s-OFDM 256 QAM	50@25	18.44	12.09	0.0162
5	15	20	167800	839	DFT-s-OFDM 256 QAM	1@1	18.02	11.67	0.0147
5	15	20	167800	839	DFT-s-OFDM 256 QAM	1@104	17.81	11.46	0.0140
5	15	20	167800	839	CP-OFDM QPSK	53@26	21.71	15.36	0.0344
5	15	20	167800	839	CP-OFDM QPSK	1@1	22.03	15.68	0.0370
5	15	20	167800	839	CP-OFDM QPSK	1@104	21.77	15.42	0.0348

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Transmitter Conducted Output Power And ERP, (G_T - L_C)=-3.5dB

NR Band	SCS	Bandwidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	36@18	23.53	17.88	0.0614
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@1	23.37	17.72	0.0592
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@77	23.39	17.74	0.0594
12	15	15	141300	706.5	DFT-s-OFDM QPSK	36@18	23.56	17.91	0.0618
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@1	23.5	17.85	0.0610
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@77	23.39	17.74	0.0594
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	36@18	22.49	16.84	0.0483
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@1	22.6	16.95	0.0495
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@77	22.48	16.83	0.0482
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	36@18	21	15.35	0.0343
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@1	21.11	15.46	0.0352
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@77	21.03	15.38	0.0345
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	36@18	18.84	13.19	0.0208
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@1	18.72	13.07	0.0203
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@77	18.51	12.86	0.0193
12	15	15	141300	706.5	CP-OFDM QPSK	39@19	22.28	16.63	0.0460
12	15	15	141300	706.5	CP-OFDM QPSK	1@1	22.22	16.57	0.0454
12	15	15	141300	706.5	CP-OFDM QPSK	1@77	22.38	16.73	0.0471
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	36@18	23.49	17.84	0.0608
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.48	17.83	0.0607
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@77	23.26	17.61	0.0577
12	15	15	141500	707.5	DFT-s-OFDM QPSK	36@18	23.5	17.85	0.0610
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@1	23.42	17.77	0.0598
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@77	23.38	17.73	0.0593
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	36@18	22.42	16.77	0.0475
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.66	17.01	0.0502

12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@77	22.38	16.73	0.0471
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	36@18	20.95	15.30	0.0339
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@1	21.1	15.45	0.0351
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@77	21.1	15.45	0.0351
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	36@18	18.96	13.31	0.0214
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@1	18.67	13.02	0.0200
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@77	18.51	12.86	0.0193
12	15	15	141500	707.5	CP-OFDM QPSK	39@19	22.27	16.62	0.0459
12	15	15	141500	707.5	CP-OFDM QPSK	1@1	22.39	16.74	0.0472
12	15	15	141500	707.5	CP-OFDM QPSK	1@77	22.17	16.52	0.0449
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	36@18	23.52	17.87	0.0612
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@1	23.42	17.77	0.0598
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@77	23.33	17.68	0.0586
12	15	15	141700	708.5	DFT-s-OFDM QPSK	36@18	23.52	17.87	0.0612
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@1	23.41	17.76	0.0597
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@77	23.48	17.83	0.0607
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	36@18	22.32	16.67	0.0465
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@1	22.52	16.87	0.0486
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@77	22.42	16.77	0.0475
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	36@18	20.93	15.28	0.0337
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@1	21.15	15.50	0.0355
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@77	21.06	15.41	0.0348
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	36@18	18.78	13.13	0.0206
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@1	18.72	13.07	0.0203
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@77	18.62	12.97	0.0198
12	15	15	141700	708.5	CP-OFDM QPSK	39@19	22.18	16.53	0.0450
12	15	15	141700	708.5	CP-OFDM QPSK	1@1	22.28	16.63	0.0460
12	15	15	141700	708.5	CP-OFDM QPSK	1@77	22.22	16.57	0.0454
12	15	5	140300	701.5	DFT-s-OFDM PI/2 BPSK	1@1	23.27	17.62	0.0578
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@1	23.32	17.67	0.0585
12	15	5	140300	701.5	DFT-s-OFDM 16 QAM	1@1	22.55	16.90	0.0490
12	15	5	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.31	17.66	0.0583
12	15	5	141500	707.5	DFT-s-OFDM	1@1	23.38	17.73	0.0593

					QPSK				
12	15	5	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.48	16.83	0.0482
12	15	5	142700	713.5	DFT-s-OFDM PI/2 BPSK	1@1	23.11	17.46	0.0557
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@1	23.33	17.68	0.0586
12	15	5	142700	713.5	DFT-s-OFDM 16 QAM	1@1	22.42	16.77	0.0475
12	15	10	140800	704	DFT-s-OFDM PI/2 BPSK	1@1	23.44	17.79	0.0601
12	15	10	140800	704	DFT-s-OFDM QPSK	1@1	23.48	17.83	0.0607
12	15	10	140800	704	DFT-s-OFDM 16 QAM	1@1	22.5	16.85	0.0484
12	15	10	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.43	17.78	0.0600
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@1	23.43	17.78	0.0600
12	15	10	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.61	16.96	0.0497
12	15	10	142200	711	DFT-s-OFDM PI/2 BPSK	1@1	23.22	17.57	0.0571
12	15	10	142200	711	DFT-s-OFDM QPSK	1@1	23.28	17.63	0.0579
12	15	10	142200	711	DFT-s-OFDM 16 QAM	1@1	22.65	17.00	0.0501

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0034	PASS	NV
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0039	PASS	LV
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0021	PASS	HV
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0017	PASS	-30°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0042	PASS	-20°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	-0.0034	PASS	-10°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0027	PASS	0°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0029	PASS	10°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	-0.0037	PASS	20°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0028	PASS	30°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0016	PASS	40°C
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	0.0022	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	75@0	3.17	13	PASS
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@0	4.42	13	PASS
12	15	15	141500	707.5	DFT-s-OFDM QPSK	75@0	5.06	13	PASS
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@0	5.81	13	PASS



N12(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N12(15M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



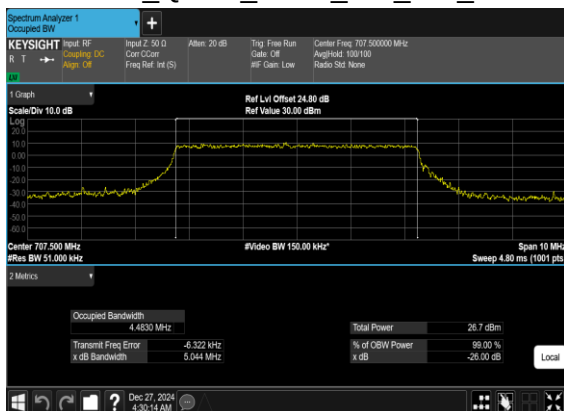


Occupied Bandwidth

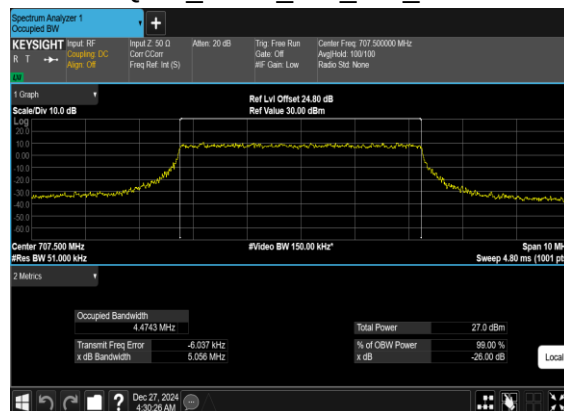
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
12	15	5	141500	707.5	CP-OFDM QPSK	25@0	4.483	5.044
12	15	5	141500	707.5	CP-OFDM 16 QAM	25@0	4.4743	5.056
12	15	5	141500	707.5	CP-OFDM 64 QAM	25@0	4.481	5.085
12	15	5	141500	707.5	CP-OFDM 256 QAM	25@0	4.47	5.114
12	15	10	141500	707.5	CP-OFDM QPSK	52@0	9.2613	9.995
12	15	10	141500	707.5	CP-OFDM 16 QAM	52@0	9.2639	9.98
12	15	10	141500	707.5	CP-OFDM 64 QAM	52@0	9.2607	9.958
12	15	10	141500	707.5	CP-OFDM 256 QAM	52@0	9.2794	9.998
12	15	15	141500	707.5	CP-OFDM QPSK	79@0	14.095	14.73
12	15	15	141500	707.5	CP-OFDM 16 QAM	79@0	14.084	14.86
12	15	15	141500	707.5	CP-OFDM 64 QAM	79@0	14.095	14.98
12	15	15	141500	707.5	CP-OFDM 256 QAM	79@0	14.073	14.79



N12(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



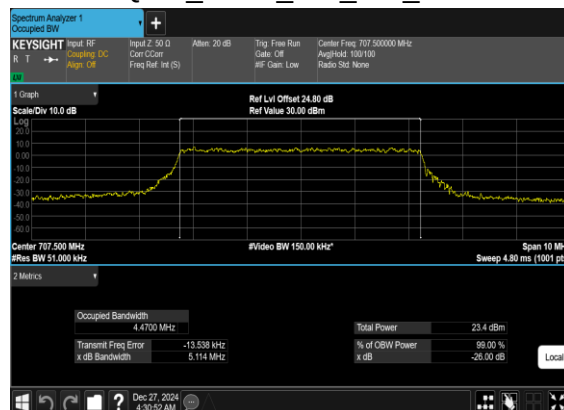
N12(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

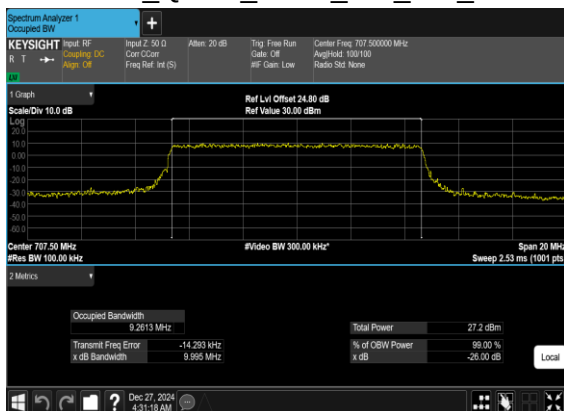


N12(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

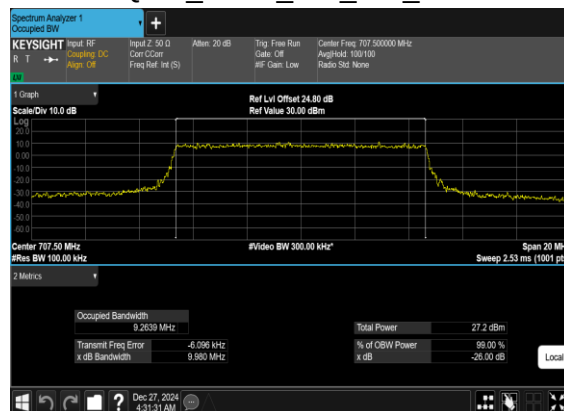




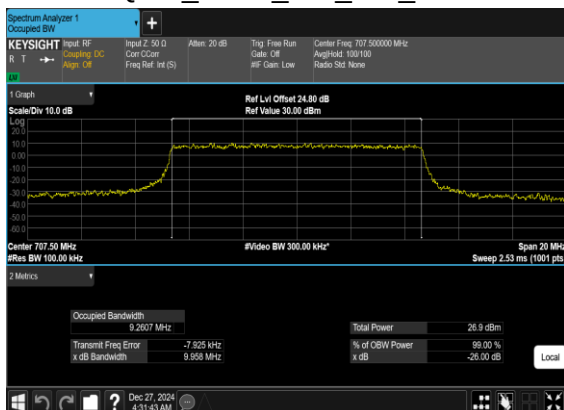
N12(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



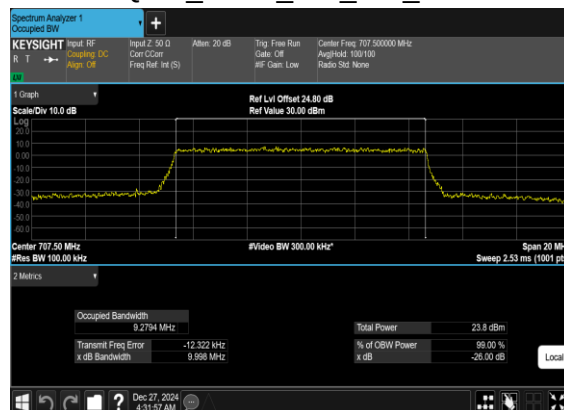
N12(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

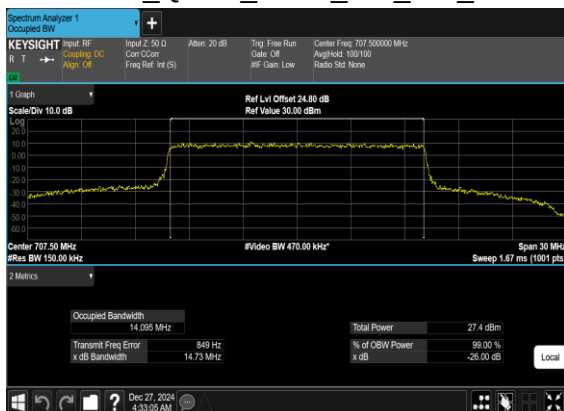


N12(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

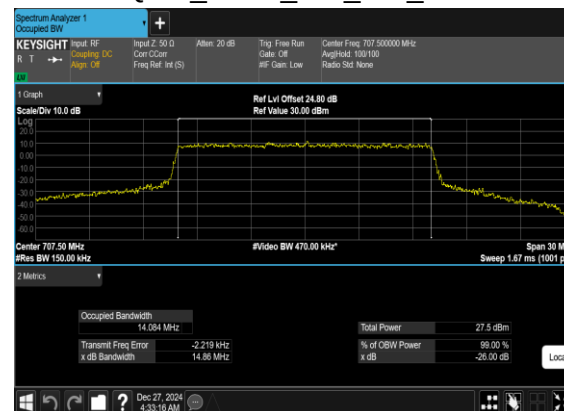




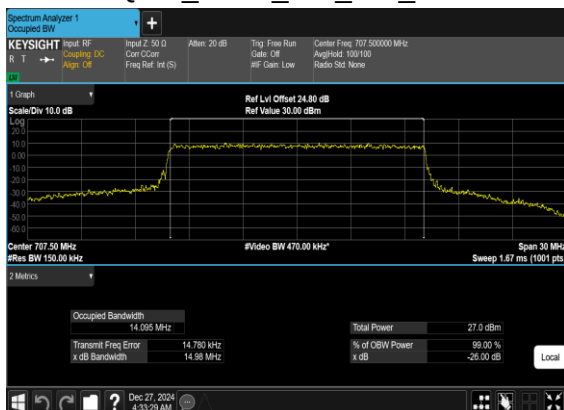
N12(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



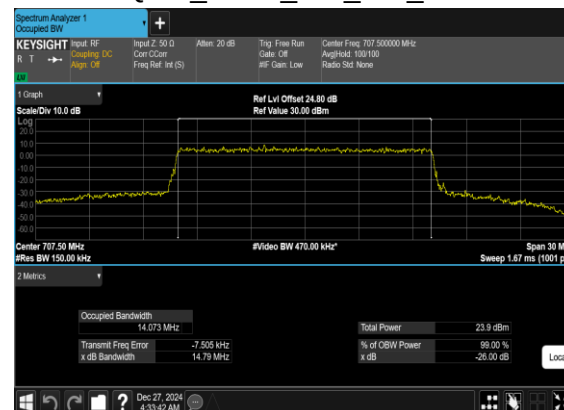
N12(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



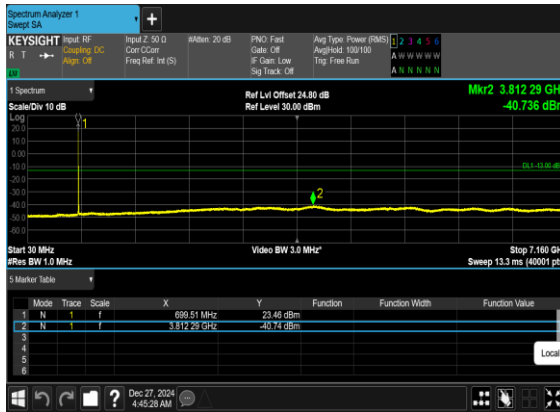
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	142700	713.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	140800	704.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS

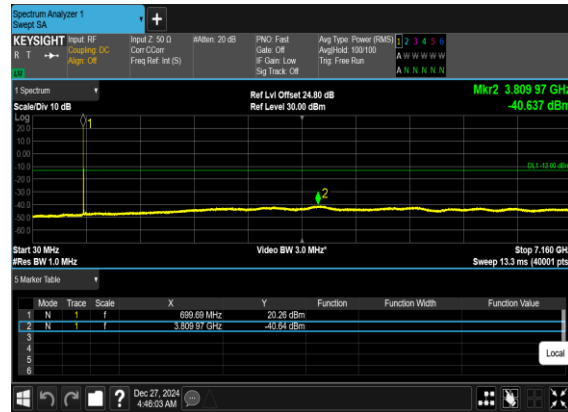
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141300	706.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141500	707.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141700	708.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@0	see graph	PASS



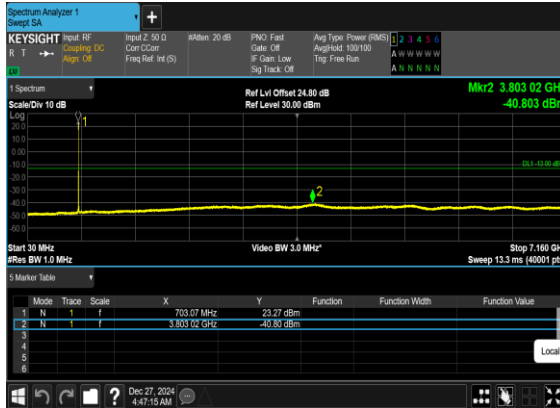
N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



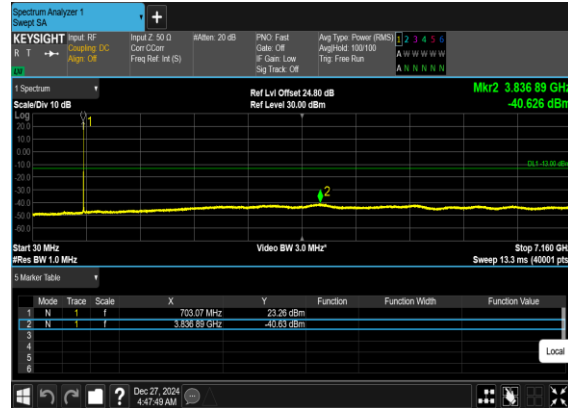
N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

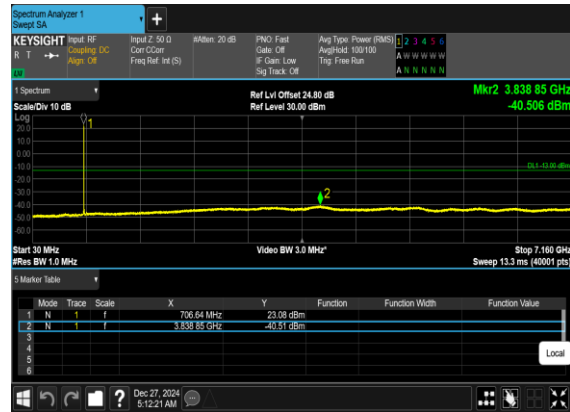




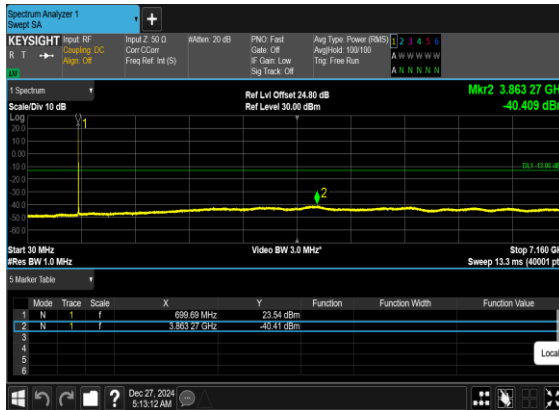
N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



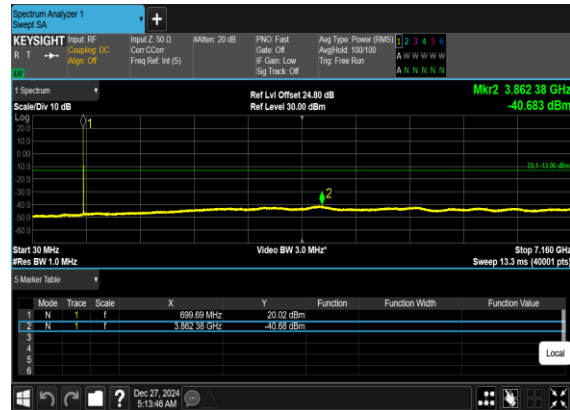
N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH





N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

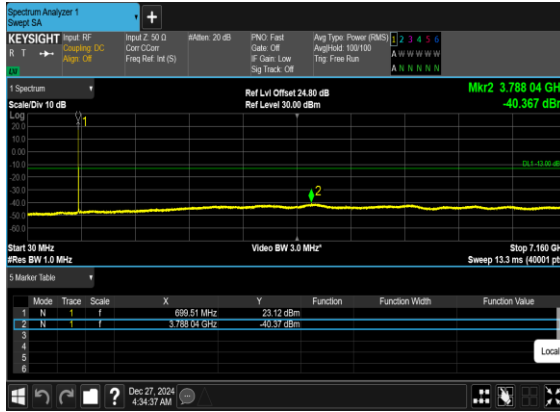


N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH





N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

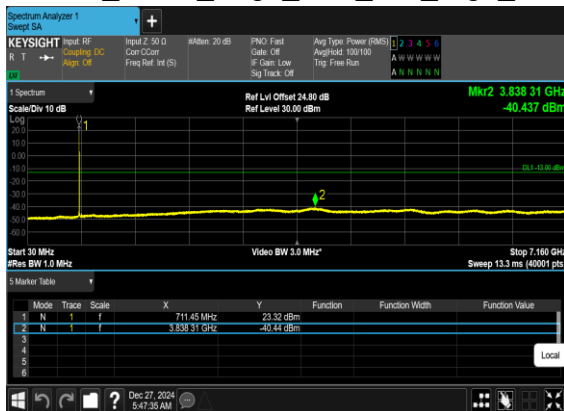


N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

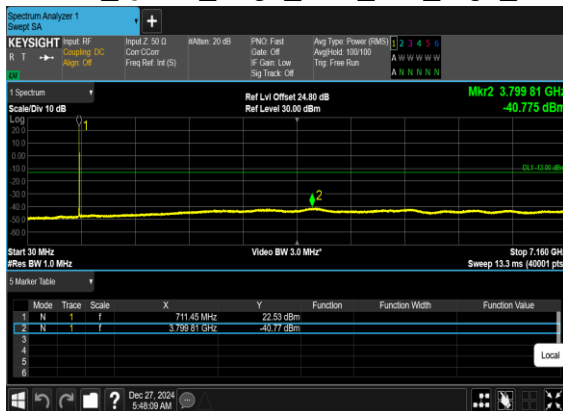




N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





Conducted Band Edge

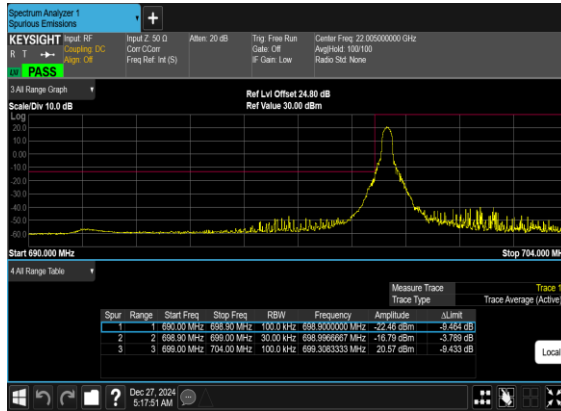
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
12	15	5	142700	713.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
12	15	10	140800	704.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM BPSK	75@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM QPSK	75@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM	1@78	see graph	PASS



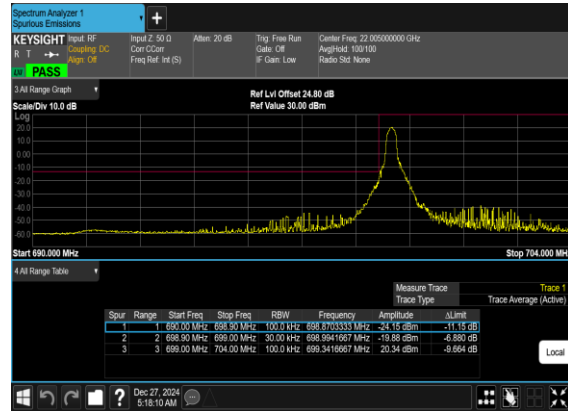
					BPSK			
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@78	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM BPSK	75@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM QPSK	75@0	see graph	PASS



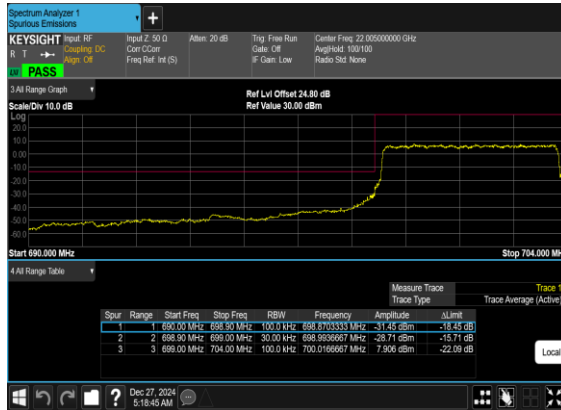
N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



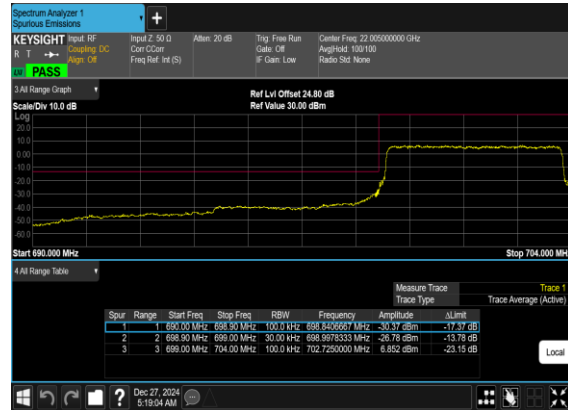
N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

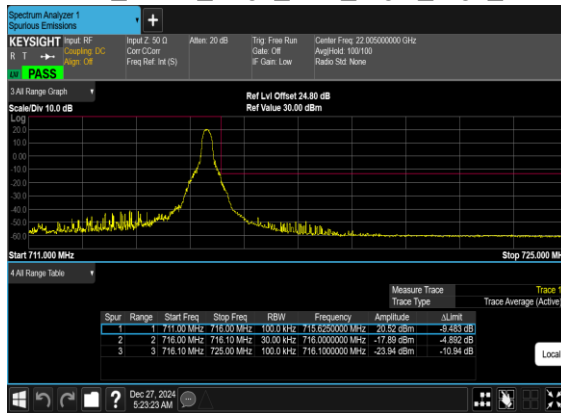


N12(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

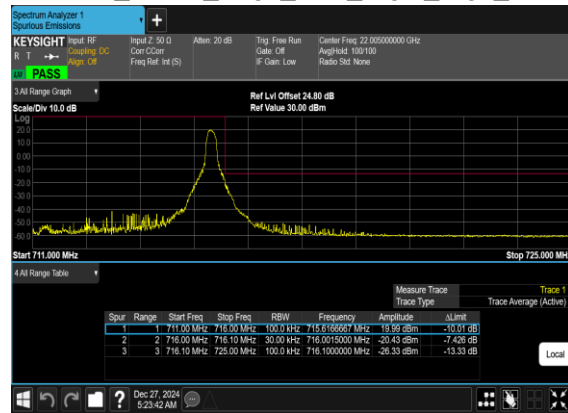




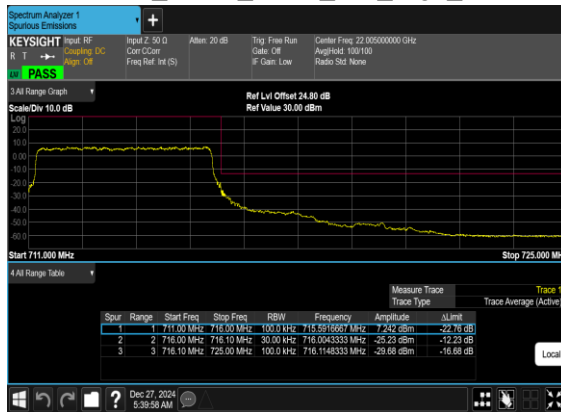
N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



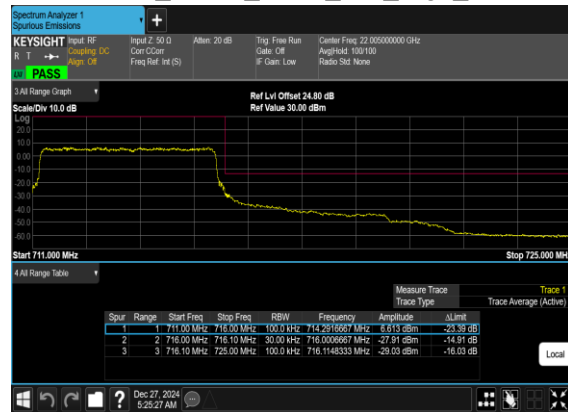
N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N12(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

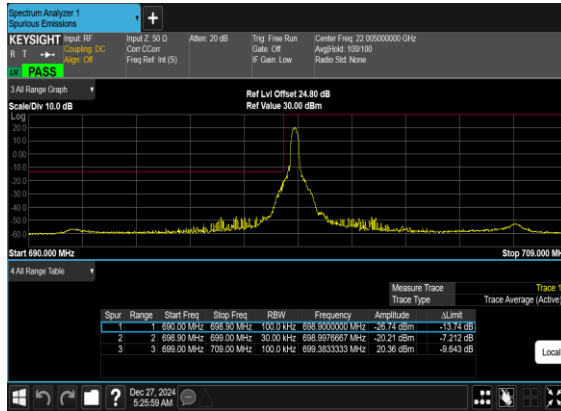


N12(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

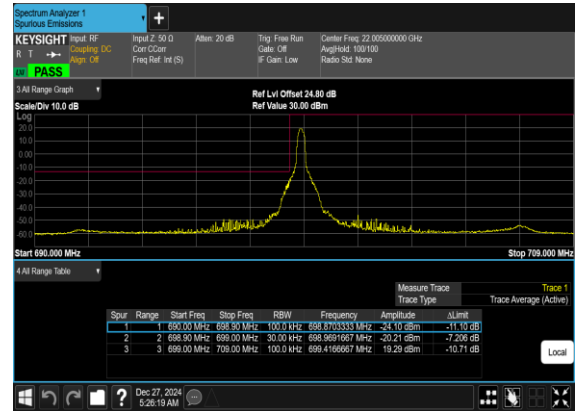




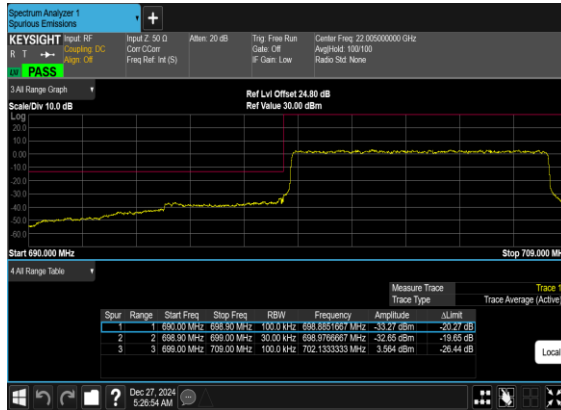
N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



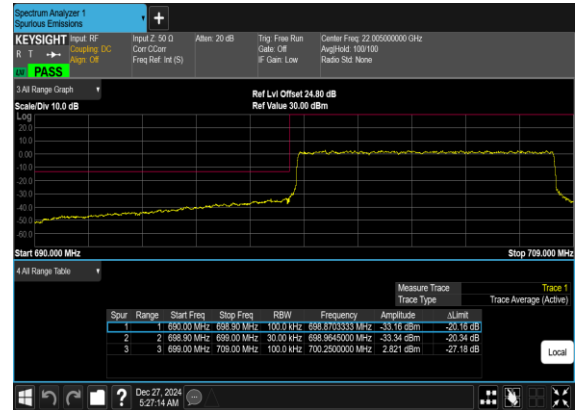
N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

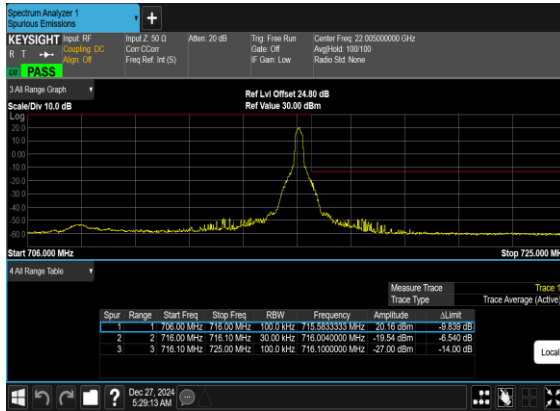


N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

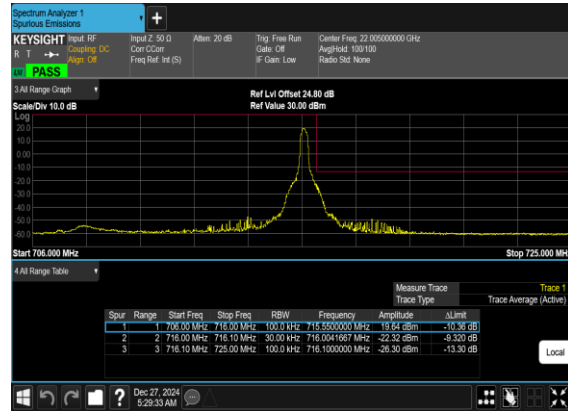




N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N12(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

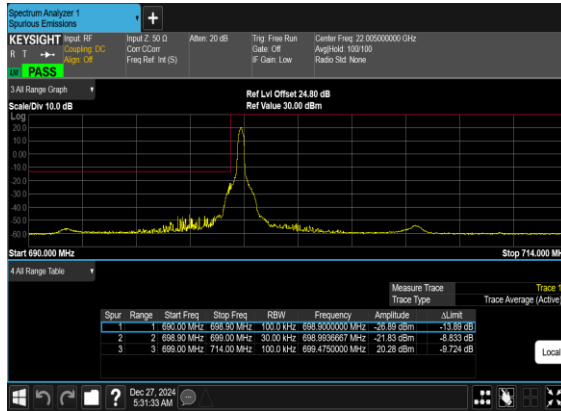


N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

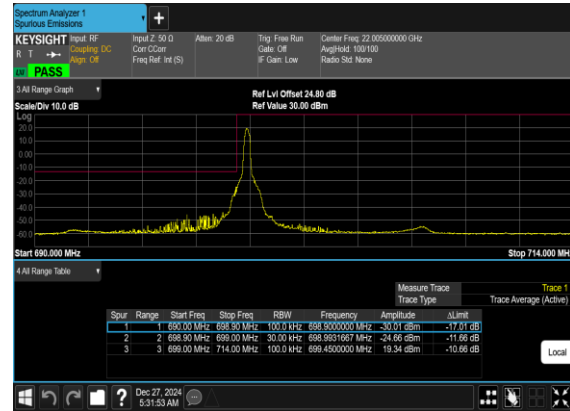




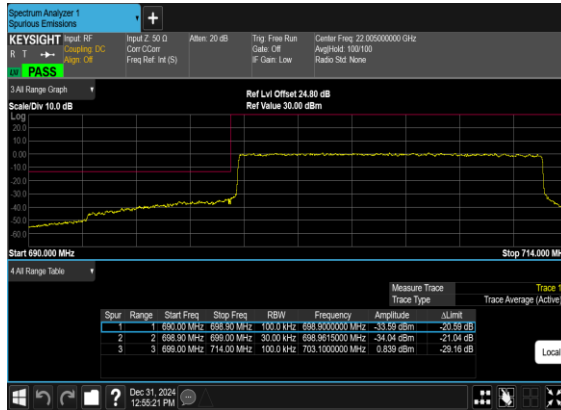
N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



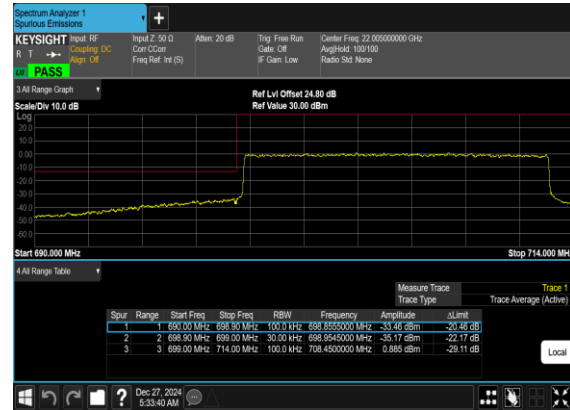
N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

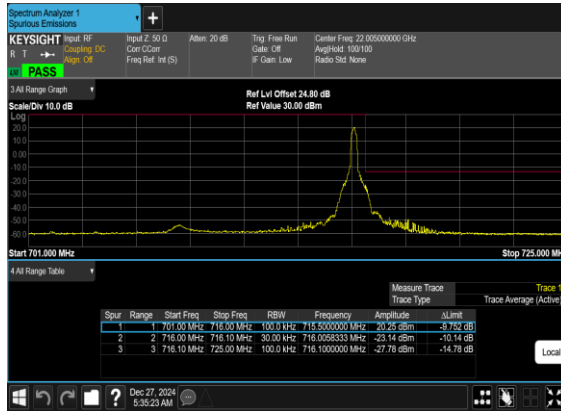


N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

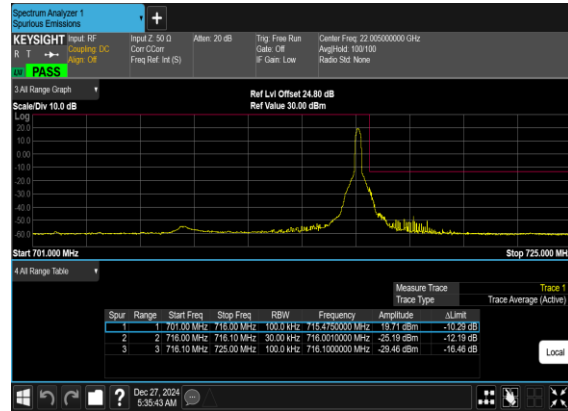




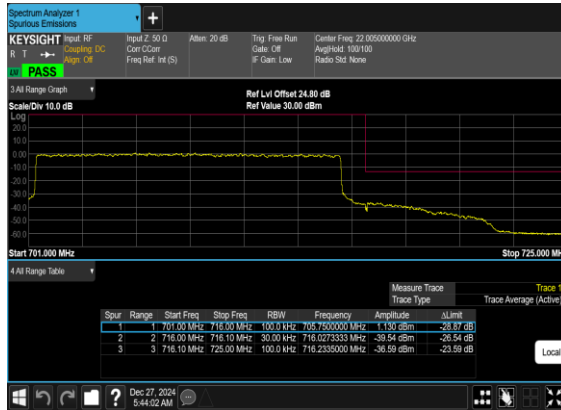
N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N26

Transmitter Conducted Output Power And ERP, (G_T - L_C)=-4.2dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
26	15	5	165300	826.5	DFT-s-OFDM PI/2 BPSK	1@1	23.00	16.65	0.0462
26	15	5	165300	826.5	DFT-s-OFDM QPSK	1@1	23.04	16.69	0.0467
26	15	5	165300	826.5	DFT-s-OFDM 16 QAM	1@1	22.30	15.95	0.0394
26	15	5	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.76	16.41	0.0438
26	15	5	167300	836.5	DFT-s-OFDM QPSK	1@1	22.83	16.48	0.0445
26	15	5	167300	836.5	DFT-s-OFDM 16 QAM	1@1	21.93	15.58	0.0361
26	15	5	169300	846.5	DFT-s-OFDM PI/2 BPSK	1@1	22.62	16.27	0.0424
26	15	5	169300	846.5	DFT-s-OFDM QPSK	1@1	22.71	16.36	0.0433
26	15	5	169300	846.5	DFT-s-OFDM 16 QAM	1@1	21.79	15.44	0.0350
26	15	10	165800	829	DFT-s-OFDM PI/2 BPSK	1@1	23.24	16.89	0.0489
26	15	10	165800	829	DFT-s-OFDM QPSK	1@1	23.17	16.82	0.0481
26	15	10	165800	829	DFT-s-OFDM 16 QAM	1@1	22.26	15.91	0.0390
26	15	10	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.93	16.58	0.0455
26	15	10	167300	836.5	DFT-s-OFDM QPSK	1@1	22.93	16.58	0.0455
26	15	10	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.01	15.66	0.0368
26	15	10	168800	844	DFT-s-OFDM PI/2 BPSK	1@1	22.70	16.35	0.0432
26	15	10	168800	844	DFT-s-OFDM QPSK	1@1	22.83	16.48	0.0445
26	15	10	168800	844	DFT-s-OFDM 16 QAM	1@1	21.81	15.46	0.0352
26	15	15	166300	831.5	DFT-s-OFDM PI/2 BPSK	1@1	23.06	16.71	0.0469
26	15	15	166300	831.5	DFT-s-OFDM QPSK	1@1	23.13	16.78	0.0476
26	15	15	166300	831.5	DFT-s-OFDM 16 QAM	1@1	22.15	15.80	0.0380
26	15	15	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.10	16.75	0.0473
26	15	15	167300	836.5	DFT-s-OFDM QPSK	1@1	23.03	16.68	0.0466
26	15	15	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.09	15.74	0.0375
26	15	15	168300	841.5	DFT-s-OFDM PI/2 BPSK	1@1	22.94	16.59	0.0456
26	15	15	168300	841.5	DFT-s-OFDM QPSK	1@1	22.95	16.60	0.0457
26	15	15	168300	841.5	DFT-s-OFDM 16 QAM	1@1	21.92	15.57	0.0361
26	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	50@25	22.92	16.57	0.0454
26	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@1	23.00	16.65	0.0462
26	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@104	22.86	16.51	0.0448
26	15	20	166800	834	DFT-s-OFDM QPSK	50@25	22.82	16.47	0.0444
26	15	20	166800	834	DFT-s-OFDM QPSK	1@1	23.00	16.65	0.0462
26	15	20	166800	834	DFT-s-OFDM QPSK	1@104	22.76	16.41	0.0438
26	15	20	166800	834	DFT-s-OFDM 16 QAM	50@25	21.92	15.57	0.0361
26	15	20	166800	834	DFT-s-OFDM 16 QAM	1@1	22.11	15.76	0.0377



26	15	20	166800	834	DFT-s-OFDM 16 QAM	1@104	21.85	15.50	0.0355
26	15	20	166800	834	DFT-s-OFDM 64 QAM	50@25	20.41	14.06	0.0255
26	15	20	166800	834	DFT-s-OFDM 64 QAM	1@1	20.65	14.30	0.0269
26	15	20	166800	834	DFT-s-OFDM 64 QAM	1@104	20.50	14.15	0.0260
26	15	20	166800	834	DFT-s-OFDM 256 QAM	50@25	18.27	11.92	0.0156
26	15	20	166800	834	DFT-s-OFDM 256 QAM	1@1	17.95	11.60	0.0145
26	15	20	166800	834	DFT-s-OFDM 256 QAM	1@104	17.74	11.39	0.0138
26	15	20	166800	834	CP-OFDM QPSK	53@26	21.57	15.22	0.0333
26	15	20	166800	834	CP-OFDM QPSK	1@1	21.83	15.48	0.0353
26	15	20	166800	834	CP-OFDM QPSK	1@104	21.68	15.33	0.0341
26	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	50@25	22.85	16.50	0.0447
26	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.99	16.64	0.0461
26	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@104	22.85	16.50	0.0447
26	15	20	167300	836.5	DFT-s-OFDM QPSK	50@25	22.81	16.46	0.0443
26	15	20	167300	836.5	DFT-s-OFDM QPSK	1@1	23.00	16.65	0.0462
26	15	20	167300	836.5	DFT-s-OFDM QPSK	1@104	22.72	16.37	0.0434
26	15	20	167300	836.5	DFT-s-OFDM 16 QAM	50@25	21.83	15.48	0.0353
26	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.04	15.69	0.0371
26	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@104	21.88	15.53	0.0357
26	15	20	167300	836.5	DFT-s-OFDM 64 QAM	50@25	20.55	14.20	0.0263
26	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@1	20.57	14.22	0.0264
26	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@104	20.44	14.09	0.0256
26	15	20	167300	836.5	DFT-s-OFDM 256 QAM	50@25	18.30	11.95	0.0157
26	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@1	17.96	11.61	0.0145
26	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@104	17.74	11.39	0.0138
26	15	20	167300	836.5	CP-OFDM QPSK	53@26	21.52	15.17	0.0329
26	15	20	167300	836.5	CP-OFDM QPSK	1@1	21.80	15.45	0.0351
26	15	20	167300	836.5	CP-OFDM QPSK	1@104	21.58	15.23	0.0333
26	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	50@25	22.80	16.45	0.0442
26	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@1	22.86	16.51	0.0448
26	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@104	22.74	16.39	0.0436
26	15	20	167800	839	DFT-s-OFDM QPSK	50@25	22.90	16.55	0.0452
26	15	20	167800	839	DFT-s-OFDM QPSK	1@1	22.92	16.57	0.0454
26	15	20	167800	839	DFT-s-OFDM QPSK	1@104	22.68	16.33	0.0430
26	15	20	167800	839	DFT-s-OFDM 16 QAM	50@25	21.92	15.57	0.0361
26	15	20	167800	839	DFT-s-OFDM 16 QAM	1@1	21.91	15.56	0.0360
26	15	20	167800	839	DFT-s-OFDM 16 QAM	1@104	21.79	15.44	0.0350
26	15	20	167800	839	DFT-s-OFDM 64 QAM	50@25	20.43	14.08	0.0256
26	15	20	167800	839	DFT-s-OFDM 64 QAM	1@1	20.50	14.15	0.0260
26	15	20	167800	839	DFT-s-OFDM 64 QAM	1@104	20.39	14.04	0.0254
26	15	20	167800	839	DFT-s-OFDM 256 QAM	50@25	18.39	12.04	0.0160
26	15	20	167800	839	DFT-s-OFDM 256 QAM	1@1	17.82	11.47	0.0140



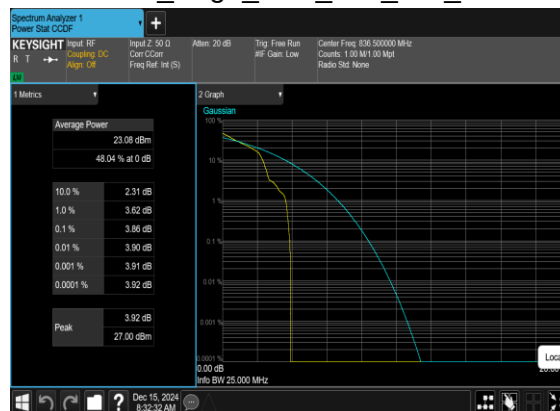
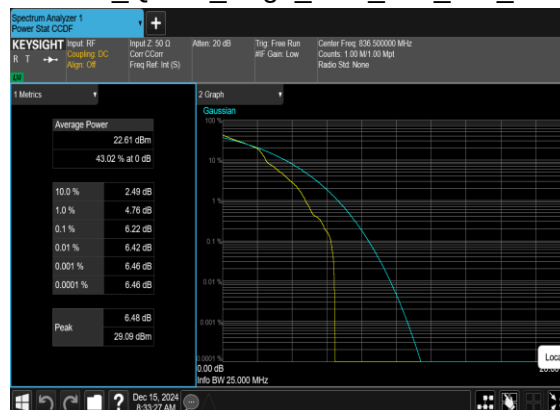
26	15	20	167800	839	DFT-s-OFDM 256 QAM	1@104	17.70	11.35	0.0136
26	15	20	167800	839	CP-OFDM QPSK	53@26	21.58	15.23	0.0333
26	15	20	167800	839	CP-OFDM QPSK	1@1	21.77	15.42	0.0348
26	15	20	167800	839	CP-OFDM QPSK	1@104	21.56	15.21	0.0332

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0044	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0031	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0027	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0034	PASS	-30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0026	PASS	-20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0032	PASS	-10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0016	PASS	0°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0037	PASS	10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0022	PASS	20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0015	PASS	30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0031	PASS	40°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0025	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
26	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	4.03	13	PASS
26	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@0	3.86	13	PASS
26	15	20	167300	836.5	DFT-s-OFDM QPSK	100@0	5.79	13	PASS
26	15	20	167300	836.5	DFT-s-OFDM QPSK	1@0	6.22	13	PASS

N26(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CHN26(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CHN26(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CHN26(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

Occupied Bandwidth

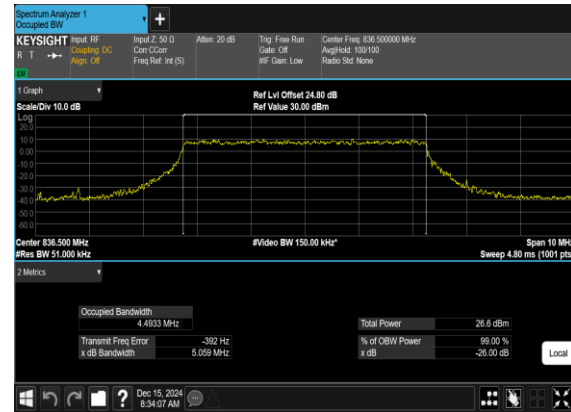
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
26	15	5	167300	836.5	CP-OFDM QPSK	25@0	4.4698	5.13
26	15	5	167300	836.5	CP-OFDM 16 QAM	25@0	4.4933	5.059
26	15	5	167300	836.5	CP-OFDM 64 QAM	25@0	4.4767	5.056
26	15	5	167300	836.5	CP-OFDM 256 QAM	25@0	4.4675	4.973
26	15	10	167300	836.5	CP-OFDM QPSK	52@0	9.2793	10.07
26	15	10	167300	836.5	CP-OFDM 16 QAM	52@0	9.2816	9.988
26	15	10	167300	836.5	CP-OFDM 64 QAM	52@0	9.2848	9.926
26	15	10	167300	836.5	CP-OFDM 256 QAM	52@0	9.3005	10.08
26	15	15	167300	836.5	CP-OFDM QPSK	79@0	14.106	14.91
26	15	15	167300	836.5	CP-OFDM 16 QAM	79@0	14.128	15.05
26	15	15	167300	836.5	CP-OFDM 64 QAM	79@0	14.132	14.95
26	15	15	167300	836.5	CP-OFDM 256 QAM	79@0	14.086	14.93
26	15	20	167300	836.5	CP-OFDM QPSK	106@0	18.909	19.89
26	15	20	167300	836.5	CP-OFDM 16 QAM	106@0	18.902	19.96
26	15	20	167300	836.5	CP-OFDM 64 QAM	106@0	18.904	19.84
26	15	20	167300	836.5	CP-OFDM 256 QAM	106@0	18.971	19.85



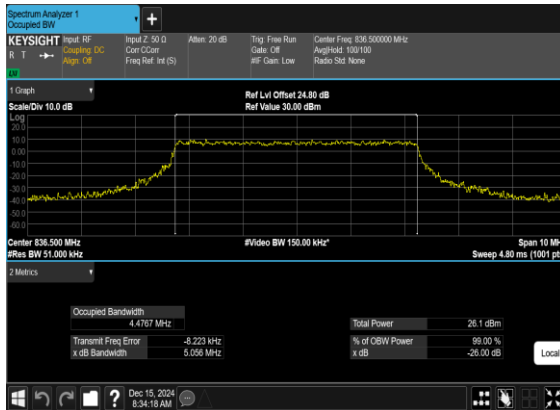
N26(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



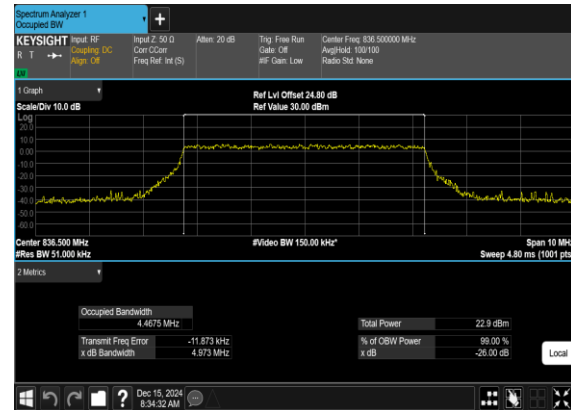
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QAM_Outer_Full_Mid_CH



N26(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

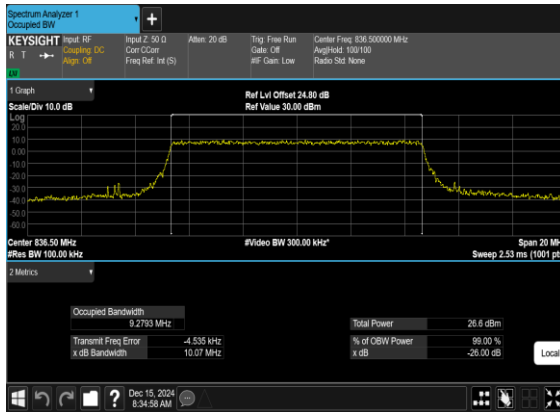


N26(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

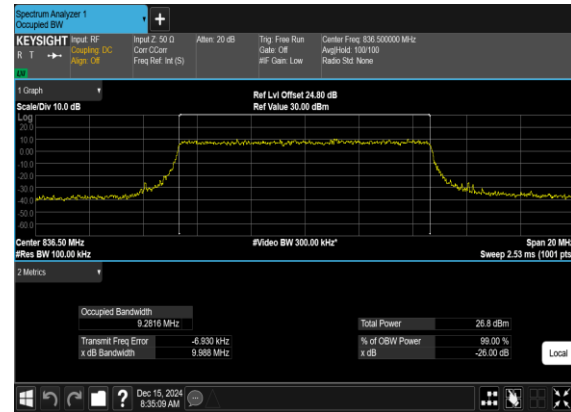




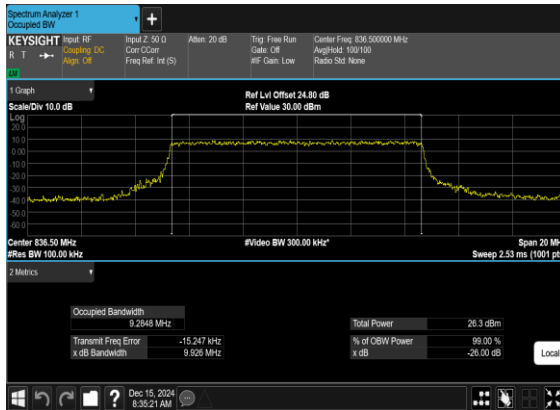
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OFDM_QPSK_Outer_Full_Mid_CH



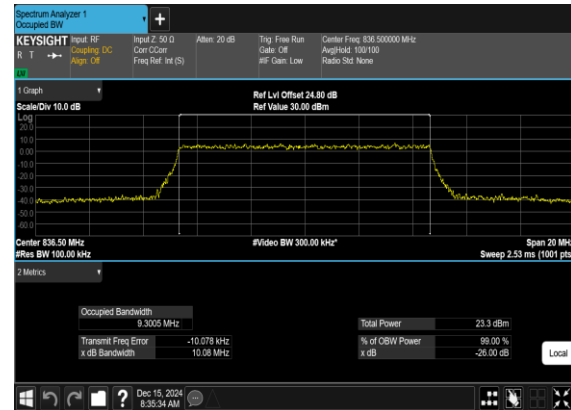
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QAM_Outer_Full_Mid_CH



N26(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

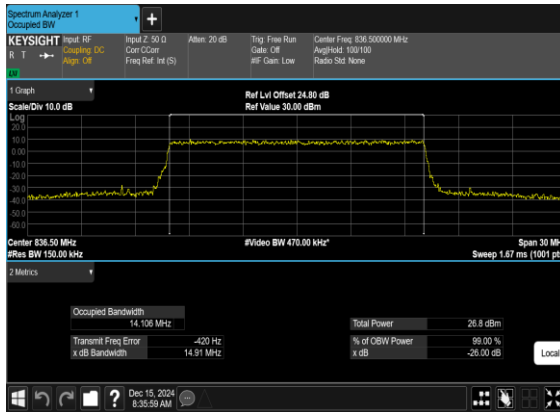


N26(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

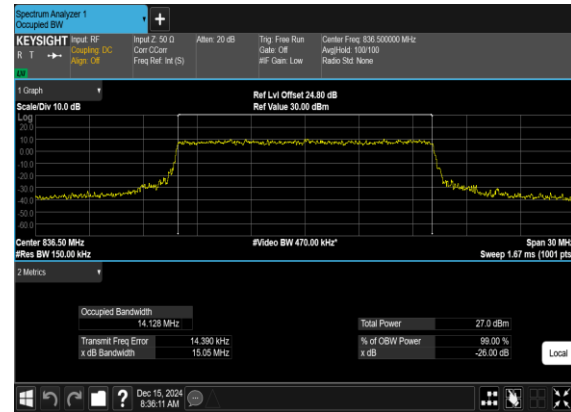




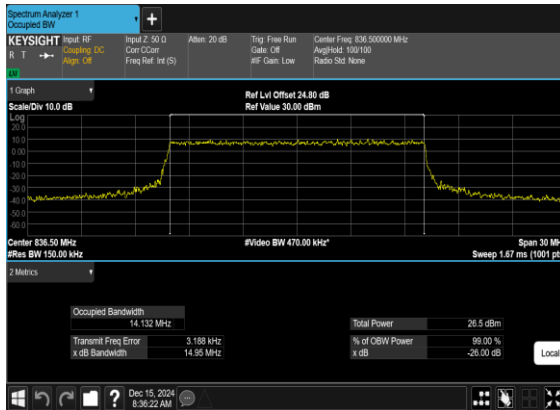
N26(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N26(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N26(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N26(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

