



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, 1⁺
MODEL NAME : CPH2749
FCC ID : 2ABZ2-OP24865
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jul. 14, 2025 ~ Aug. 15, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Fly Liang

Approved by: Fly Liang



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People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	6
1.5 Modification of EUT	6
1.6 Maximum ERP/EIRP and Emission Designator	7
1.7 Testing Location	8
1.8 Test Software	8
1.9 Applicable Standards	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Test Mode	9
2.2 Connection Diagram of Test System	11
2.3 Support Unit used in test configuration and system	11
2.4 Measurement Results Explanation Example	12
2.5 Frequency List of Low/Middle/High Channels	12
3 CONDUCTED TEST ITEMS	14
3.1 Measuring Instruments	14
3.2 Test Setup	14
3.3 Test Result of Conducted Test	14
3.4 Conducted Output Power and ERP/EIRP	15
3.5 Peak-to-Average Ratio	16
3.6 Occupied Bandwidth	17
3.7 Conducted Band Edge	18
3.8 Conducted Spurious Emission	19
3.9 Frequency Stability	20
4 RADIATED TEST ITEMS	21
4.1 Measuring Instruments	21
4.2 Test Setup	21
4.3 Test Result of Radiated Test	22
4.4 Radiated Spurious Emission	23
5 LIST OF MEASURING EQUIPMENT	24
6 MEASUREMENT UNCERTAINTY	25
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG561202J	Rev. 01	Initial issue of report	Sep. 01, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (5G NR n12, n13, n71)	ERP < 3 Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(h) §27.53(g) §27.53(c)(2)(4)	Conducted Band Edge Measurement (5G NR n66) (5G NR n12, n13, n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(h) §27.53(g) §27.53(c)(2)	Conducted Spurious Emission (5G NR n66) (5G NR n12, n13, n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(h) §27.53(g) §27.53(c)(2)	Radiated Spurious Emission (5G NR n66) (5G NR n12, n13, n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 8.43 dB at 14482.00 MHz

Conformity Assessment Condition:

- 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.
- 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

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS, 
Model Name	CPH2749
FCC ID	2ABZ2-OP24865
IMEI Code	Conducted : 867621080022994/867621080022986 Radiation : 867621080023190/867621080023182
HW Version	11
SW Version	OxygenOS 16.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n12: 729 MHz ~ 746 MHz 5G NR n13 : 746 MHz ~ 756 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n71: 617 MHz ~ 652 MHz
Bandwidth	n12 : 5MHz / 10MHz / 15MHz n13 : 5MHz / 10MHz n66 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz / 40MHz / 45MHz n71 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 35MHz
SCS	15kHz
Antenna Gain	<Ant. 0>: n12: -1.5 dBi n13: -1.5 dBi n66: 1.5 dBi n71: -3.0 dBi <Ant. 1>: n12: -4.0 dBi n13: -4.0 dBi n71: -4.0 dBi <Ant. 5>: n66: -0.5 dBi <Ant. 6>: n66: -2.0 dBi <Ant. 7>: n66: -1.0 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/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report, 5G NR n12/n13/n66/n71 for Ant. 0.
2. For conducted test items, only the worse test data of Ant1 is for n12/n13/n71, Ant 6 for n66(main PA) and Ant 5 for n66(other PA) are shown in the report according to the maximum conducted power.
3. 5G NR support SA (n12/n13/n66/n71) mode and NSA(n12/n66/n71) mode. According to the maximum power between SA and NSA mode, SA covers NSA mode for (n12/n66/n71).
4. The device supports two PAs for 5G NR n66 (main PA for Ant6/7 and other PA for Ant0/5), both the PAs are full tested, only the worst EIRP are shown.
5. The EN-DC mode combination could be referred to the product spec.
6. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP and Emission Designator

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	0.0906	4M47G7D	0.0738	4M48W7D
10	704.0 ~ 711.0	0.0895	9M29G7D	0.0706	9M30W7D
15	706.5 ~ 708.5	0.0910	14M1G7D	0.0728	14M1W7D

5G NR n13		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	779.5 ~ 784.5	0.1125	4M47G7D	0.0906	4M49W7D
10	782	0.1146	9M30G7D	0.0910	9M30W7D

5G NR n66		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)
5	1712.5 ~ 1777.5	0.3855	4M48G7D	0.3133	4M51W7D
10	1715.0 ~ 1775.0	0.3837	9M29G7D	0.3112	9M29W7D
15	1717.5 ~ 1772.5	0.3837	14M1G7D	0.3177	14M1W7D
20	1720.0 ~ 1770.0	0.3908	18M9G7D	0.3206	19M0W7D
25	1722.5 ~ 1767.5	0.3819	23M8G7D	0.3097	23M8W7D
30	1725.0 ~ 1765.0	0.3784	28M6G7D	0.3119	28M6W7D
35	1727.5 ~ 1762.5	0.3750	33M5G7D	0.3027	33M6W7D
40	1730.0 ~ 1760.0	0.3724	38M6G7D	0.3034	38M6W7D
45	1732.5 ~ 1757.5	0.3936	43M2G7D	0.3281	43M3W7D

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	0.0628	4M46G7D	0.0521	4M48W7D
10	668.0 ~ 693.0	0.0628	9M29G7D	0.0481	9M28W7D
15	670.5 ~ 690.5	0.0632	14M1G7D	0.0497	14M1W7D
20	673.0 ~ 688.0	0.0640	18M9G7D	0.0499	19M0W7D
25	675.5 ~ 685.5	0.0619	23M8G7D	0.0505	23M8W7D
30	678.0 ~ 683.0	0.0622	28M5G7D	0.0480	28M5W7D
35	680.5 ~ 680.5	0.0643	33M5G7D	0.0493	33M5W7D

Note: 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. (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	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.
	TH01-SZ 03CH02-SZ	CN1256	421272

1.8 Test Software

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

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 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.



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 (Z plane) were recorded in this 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.

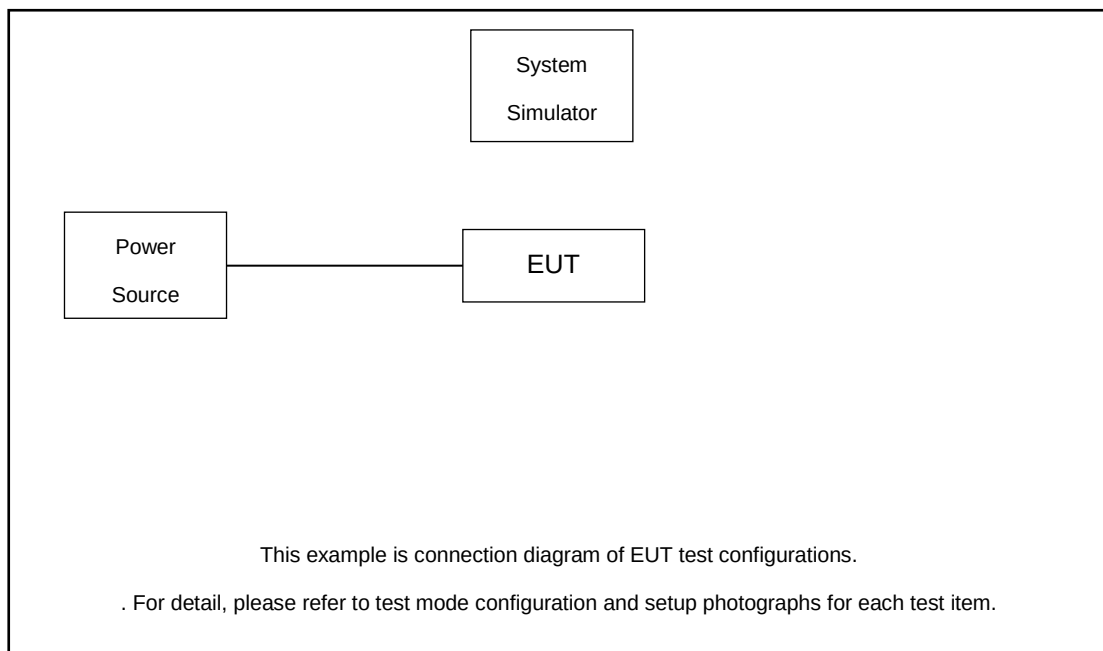
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane

Test Items	5G NR	Bandwidth (MHz)																Modulation				RB #		Test Channel		
		5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	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	
	n13		v	-	-	-	-	-	-	-	-	-	-	-	-	-	v	v					v		v	
	n66				v						-	-	-	-	-	-	v	v					v		v	
	n71				v				-	-	-	-	-	-	-	-	v	v					v		v	
26dB and 99% Bandwidth	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v		v	
	n66	v	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	
Conducted Band Edge	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n66	v				v				v	-	-	-	-	-	-	v	v				v	v	v		v
	n71	v			v			v	-	-	-	-	-	-	-	-	v	v				v	v	v		v
Conducted Spurious Emission	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n66	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	
	n13		v	-	-	-	-	-	-	-	-	-	-	-	-	-		v					v		v	
	n66				v						-	-	-	-	-	-		v					v		v	
	n71				v				-	-	-	-	-	-	-	-		v					v		v	



Test Items	5G NR	Bandwidth (MHz)														Modulation					RB #		Test Channel			
		5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
E.R.P / E.I.R.P	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	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	v	v
	n13	Worst Case																						v	v	v
	n66	Worst Case																						v	v	v
	n71	Worst Case																						v	v	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 = 8.0V ; Low Voltage =7.2V.: High Voltage =9.0V																									

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 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 7.5 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 7.5 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

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 n13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	156400		
	Frequency	782		
5	Channel	155900	156400	156900
	Frequency	779.5	782	784.5



5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
45	Channel	346500	349000	351500
	Frequency	1732.5	1745	1757.5
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
35	Channel	345500	349000	352500
	Frequency	1727.5	1745	1762.5
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

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

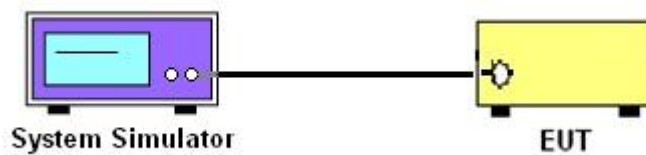
3 Conducted Test Items

3.1 Measuring Instruments

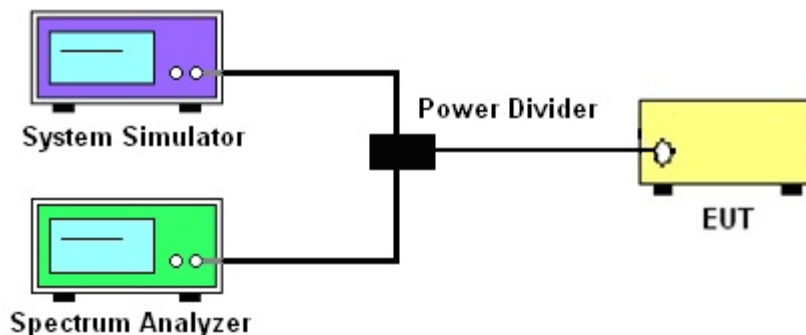
See list of measuring instruments of this test report.

3.2 Test Setup

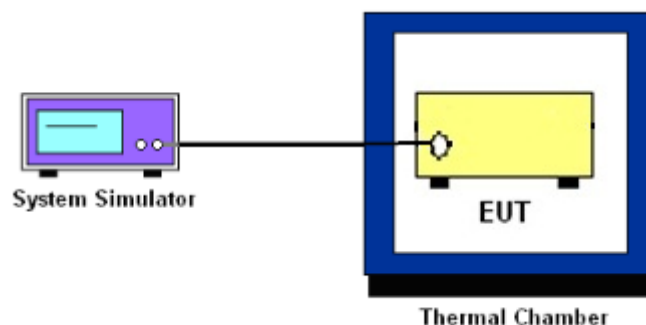
3.2.1 Conducted Output Power



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/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP 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 3 Watts for 5G NR n12, n13, n71.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

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

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz 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 (c)

For operations in the 776-788 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 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

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.
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 $P(\text{Watts})$

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

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

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 power divider.
The path loss was compensated to the results for each measurement.
Path Loss Factor = Cable + Power Divider, Where the cable and power divider are the total path loss for the system calibration.
4. The low/middle/high 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.

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±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

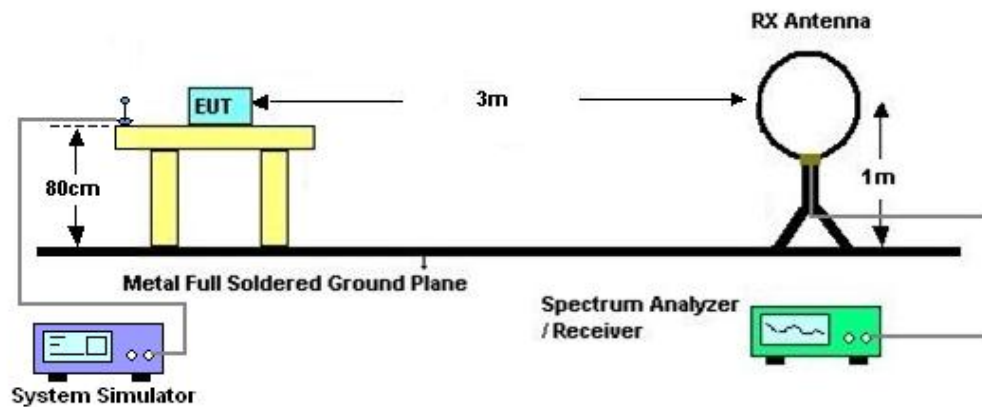
4 Radiated Test Items

4.1 Measuring Instruments

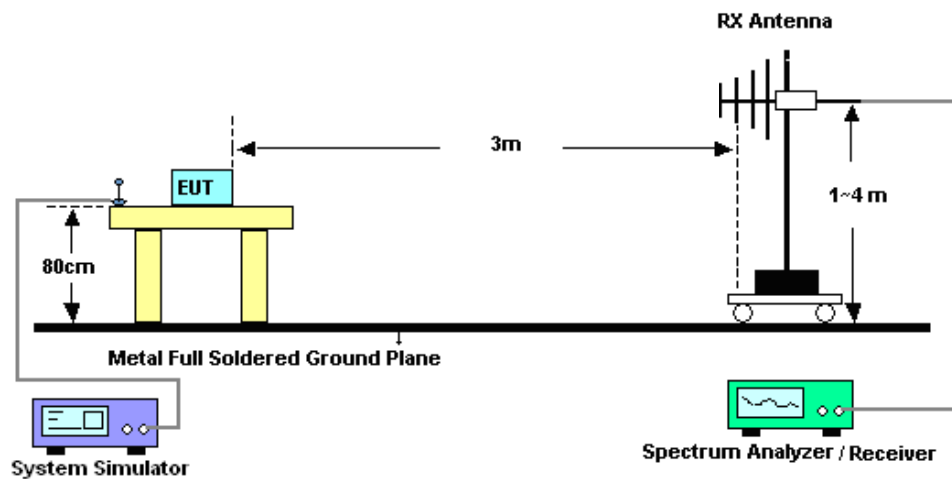
See list of measuring instruments of this test report.

4.2 Test Setup

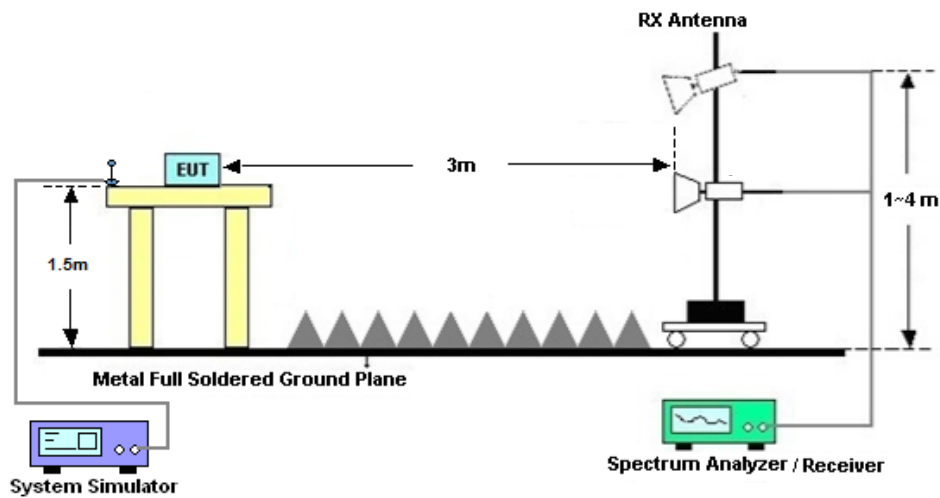
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

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.

For n13,

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
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	101078	10Hz~40GHz	Apr. 02, 2025	Jul. 14, 2025~ Jul. 31, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V, 3A	Oct.14,2024	Jul. 14, 2025~ Jul. 31, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Jul. 14, 2025~ Jul. 31, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Jul. 14, 2025~ Jul. 31, 2025	Jul. 01, 2026	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Aug. 15, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Aug. 15, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 15, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Aug. 15, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2025	Aug. 15, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	Aug. 15, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	Aug. 15, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Aug. 15, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Aug. 15, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Aug. 15, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Aug. 15, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

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

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

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

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



Software Version: 23.06.1602

FR1 N12(ANT0)**Transmitter Conducted Output Power And ERP, (G_T - L_c)=-1.5dB**

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	5	140300	701.5	DFT-s-OFDM QPSK	12@6	23.19	19.54	0.0899
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@1	23.22	19.57	0.0906
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@23	23.12	19.47	0.0885
12	15	5	140300	701.5	DFT-s-OFDM 16 QAM	12@6	21.89	18.24	0.0667
12	15	5	140300	701.5	DFT-s-OFDM 16 QAM	1@1	22.33	18.68	0.0738
12	15	5	140300	701.5	DFT-s-OFDM 16 QAM	1@23	22.18	18.53	0.0713
12	15	5	141500	707.5	DFT-s-OFDM QPSK	12@6	22.83	19.18	0.0828
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@1	23.07	19.42	0.0875
12	15	5	141500	707.5	DFT-s-OFDM QPSK	1@23	22.79	19.14	0.0820
12	15	5	141500	707.5	DFT-s-OFDM 16 QAM	12@6	21.83	18.18	0.0658
12	15	5	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.09	18.44	0.0698
12	15	5	141500	707.5	DFT-s-OFDM 16 QAM	1@23	21.78	18.13	0.0650
12	15	5	142700	713.5	DFT-s-OFDM QPSK	12@6	22.6	18.95	0.0785
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@1	22.59	18.94	0.0783
12	15	5	142700	713.5	DFT-s-OFDM QPSK	1@23	22.62	18.97	0.0789
12	15	5	142700	713.5	DFT-s-OFDM 16 QAM	12@6	21.5	17.85	0.0610
12	15	5	142700	713.5	DFT-s-OFDM 16 QAM	1@1	21.63	17.98	0.0628
12	15	5	142700	713.5	DFT-s-OFDM 16 QAM	1@23	21.54	17.89	0.0615
12	15	10	140800	704	DFT-s-OFDM QPSK	25@12	22.98	19.33	0.0857
12	15	10	140800	704	DFT-s-OFDM QPSK	1@1	23.17	19.52	0.0895
12	15	10	140800	704	DFT-s-OFDM QPSK	1@50	22.46	18.81	0.0760
12	15	10	140800	704	DFT-s-OFDM 16 QAM	25@12	21.86	18.21	0.0662
12	15	10	140800	704	DFT-s-OFDM 16 QAM	1@1	22.11	18.46	0.0701
12	15	10	140800	704	DFT-s-OFDM 16 QAM	1@50	21.62	17.97	0.0627
12	15	10	141500	707.5	DFT-s-OFDM QPSK	25@12	22.79	19.14	0.0820
12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@1	22.96	19.31	0.0853



12	15	10	141500	707.5	DFT-s-OFDM QPSK	1@50	22.53	18.88	0.0773
12	15	10	141500	707.5	DFT-s-OFDM 16 QAM	25@12	21.79	18.14	0.0652
12	15	10	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.14	18.49	0.0706
12	15	10	141500	707.5	DFT-s-OFDM 16 QAM	1@50	21.56	17.91	0.0618
12	15	10	142200	711	DFT-s-OFDM QPSK	25@12	22.68	19.03	0.0800
12	15	10	142200	711	DFT-s-OFDM QPSK	1@1	22.9	19.25	0.0841
12	15	10	142200	711	DFT-s-OFDM QPSK	1@50	22.53	18.88	0.0773
12	15	10	142200	711	DFT-s-OFDM 16 QAM	25@12	21.67	18.02	0.0634
12	15	10	142200	711	DFT-s-OFDM 16 QAM	1@1	21.9	18.25	0.0668
12	15	10	142200	711	DFT-s-OFDM 16 QAM	1@50	21.59	17.94	0.0622
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	36@18	23.06	19.41	0.0873
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@1	23.07	19.42	0.0875
12	15	15	141300	706.5	DFT-s-OFDM PI/2 BPSK	1@77	22.71	19.06	0.0805
12	15	15	141300	706.5	DFT-s-OFDM QPSK	36@18	23.07	19.42	0.0875
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@1	23.16	19.51	0.0893
12	15	15	141300	706.5	DFT-s-OFDM QPSK	1@77	22.48	18.83	0.0764
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	36@18	21.85	18.2	0.0661
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@1	22.17	18.52	0.0711
12	15	15	141300	706.5	DFT-s-OFDM 16 QAM	1@77	21.49	17.84	0.0608
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	36@18	20.56	16.91	0.0491
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@1	20.79	17.14	0.0518
12	15	15	141300	706.5	DFT-s-OFDM 64 QAM	1@77	20.05	16.4	0.0437
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	36@18	18.36	14.71	0.0296
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@1	18.34	14.69	0.0294
12	15	15	141300	706.5	DFT-s-OFDM 256 QAM	1@77	17.8	14.15	0.0260
12	15	15	141300	706.5	CP-OFDM QPSK	39@19	21.38	17.73	0.0593
12	15	15	141300	706.5	CP-OFDM QPSK	1@1	21.72	18.07	0.0641
12	15	15	141300	706.5	CP-OFDM QPSK	1@77	21.03	17.38	0.0547
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	36@18	23.04	19.39	0.0869
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.24	19.59	0.0910
12	15	15	141500	707.5	DFT-s-OFDM PI/2 BPSK	1@77	22.58	18.93	0.0782
12	15	15	141500	707.5	DFT-s-OFDM QPSK	36@18	22.92	19.27	0.0845



12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@1	23.09	19.44	0.0879
12	15	15	141500	707.5	DFT-s-OFDM QPSK	1@77	22.5	18.85	0.0767
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	36@18	21.82	18.17	0.0656
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@1	22.27	18.62	0.0728
12	15	15	141500	707.5	DFT-s-OFDM 16 QAM	1@77	21.69	18.04	0.0637
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	36@18	20.38	16.73	0.0471
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@1	20.77	17.12	0.0515
12	15	15	141500	707.5	DFT-s-OFDM 64 QAM	1@77	20.19	16.54	0.0451
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	36@18	18.3	14.65	0.0292
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@1	18.3	14.65	0.0292
12	15	15	141500	707.5	DFT-s-OFDM 256 QAM	1@77	17.77	14.12	0.0258
12	15	15	141500	707.5	CP-OFDM QPSK	39@19	21.29	17.64	0.0581
12	15	15	141500	707.5	CP-OFDM QPSK	1@1	21.81	18.16	0.0655
12	15	15	141500	707.5	CP-OFDM QPSK	1@77	21.12	17.47	0.0558
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	36@18	23.02	19.37	0.0865
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@1	23.06	19.41	0.0873
12	15	15	141700	708.5	DFT-s-OFDM PI/2 BPSK	1@77	22.5	18.85	0.0767
12	15	15	141700	708.5	DFT-s-OFDM QPSK	36@18	22.92	19.27	0.0845
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@1	23.14	19.49	0.0889
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@77	22.43	18.78	0.0755
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	36@18	21.85	18.2	0.0661
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@1	22.27	18.62	0.0728
12	15	15	141700	708.5	DFT-s-OFDM 16 QAM	1@77	21.49	17.84	0.0608
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	36@18	20.39	16.74	0.0472
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@1	20.75	17.1	0.0513
12	15	15	141700	708.5	DFT-s-OFDM 64 QAM	1@77	20.11	16.46	0.0443
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	36@18	18.3	14.65	0.0292
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@1	18.21	14.56	0.0286
12	15	15	141700	708.5	DFT-s-OFDM 256 QAM	1@77	17.66	14.01	0.0252
12	15	15	141700	708.5	CP-OFDM QPSK	39@19	21.33	17.68	0.0586
12	15	15	141700	708.5	CP-OFDM QPSK	1@1	21.78	18.13	0.0650
12	15	15	141700	708.5	CP-OFDM QPSK	1@77	21.01	17.36	0.0545



FR1 N12(ANT1)

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	15.3	PASS	NV
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	19.2	PASS	LV
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	16.3	PASS	HV
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	12	PASS	-30°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	16	PASS	-20°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	19.4	PASS	-10°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	11.6	PASS	0°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	12.8	PASS	10°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	15.3	PASS	20°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	18	PASS	30°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	18.1	PASS	40°C
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	12.5	PASS	50°C

$|\text{MAX}(\Delta f)| = 19.4 \text{ Hz}$

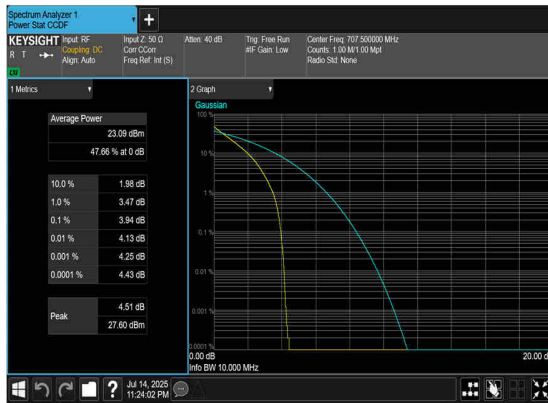
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	699.3970806	$\geq 699 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	714.8536194	$\leq 716 \text{ MHz}$	



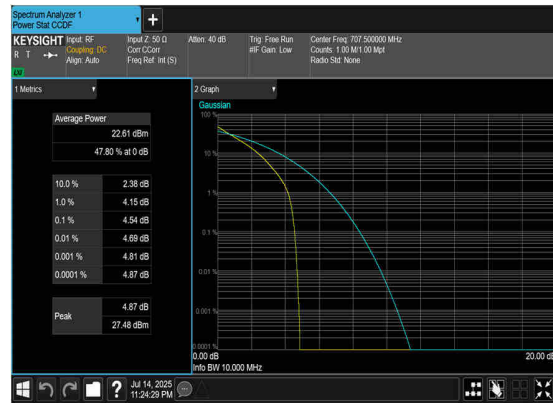
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	15	10	141500	707.5	DFT-s-OFDM PI/2 BPSK	50@0	3.94	13	PASS
12	15	10	141500	707.5	DFT-s-OFDM QPSK	50@0	4.54	13	PASS

N12(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
12	15	5	141500	707.5	CP-OFDM QPSK	25@0	4.4668	5.037
12	15	5	141500	707.5	CP-OFDM 16 QAM	25@0	4.4794	5.079
12	15	5	141500	707.5	CP-OFDM 64 QAM	25@0	4.4678	5.094
12	15	5	141500	707.5	CP-OFDM 256 QAM	25@0	4.4778	4.985
12	15	10	141500	707.5	CP-OFDM QPSK	52@0	9.2862	9.976
12	15	10	141500	707.5	CP-OFDM 16 QAM	52@0	9.2986	10.03
12	15	10	141500	707.5	CP-OFDM 64 QAM	52@0	9.2523	9.914
12	15	10	141500	707.5	CP-OFDM 256 QAM	52@0	9.2953	10.02
12	15	15	141500	707.5	CP-OFDM QPSK	79@0	14.103	14.9
12	15	15	141500	707.5	CP-OFDM 16 QAM	79@0	14.097	14.93
12	15	15	141500	707.5	CP-OFDM 64 QAM	79@0	14.125	14.82
12	15	15	141500	707.5	CP-OFDM 256 QAM	79@0	14.074	14.83



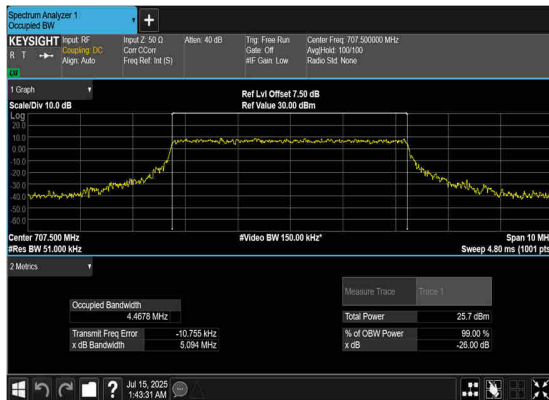
N12(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



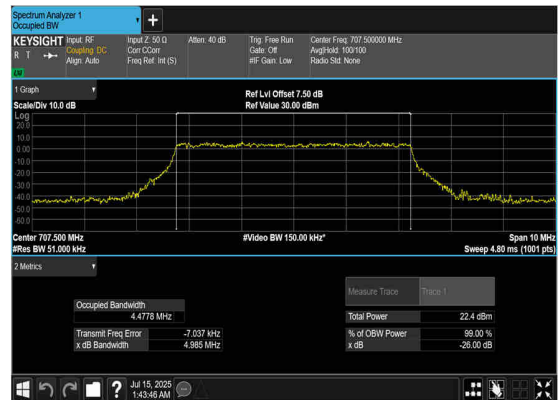
N12(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

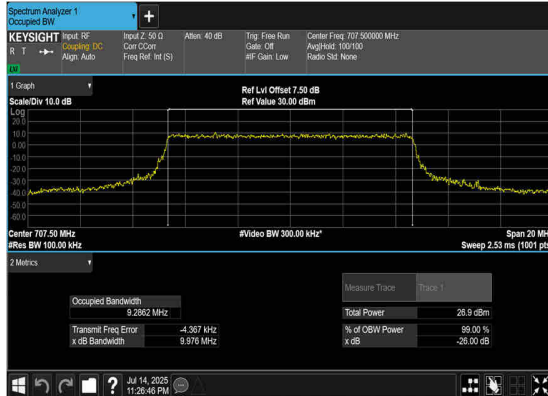


N12(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





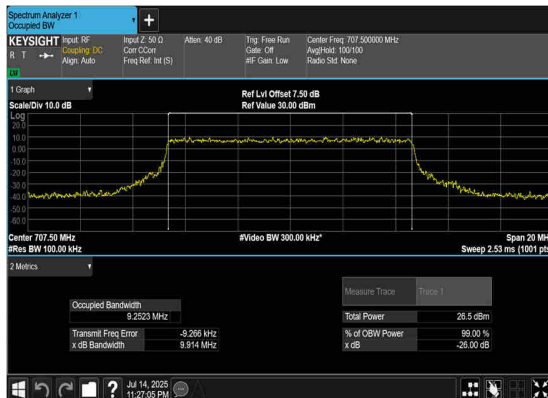
N12(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



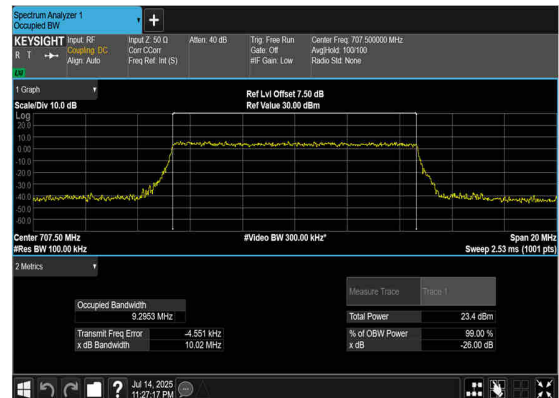
N12(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

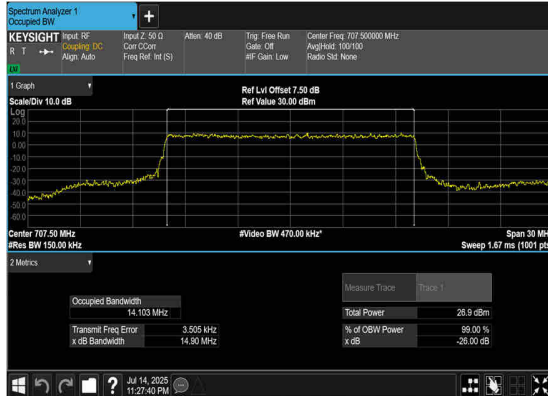


N12(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

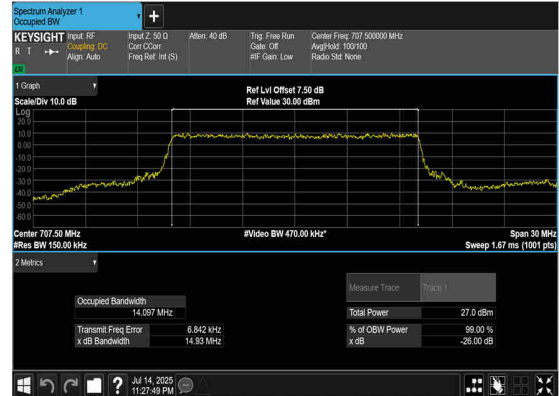




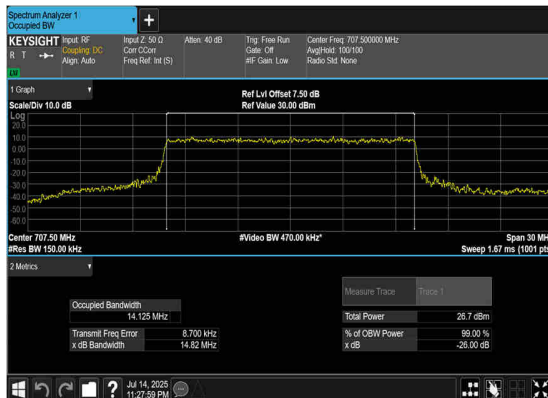
N12(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



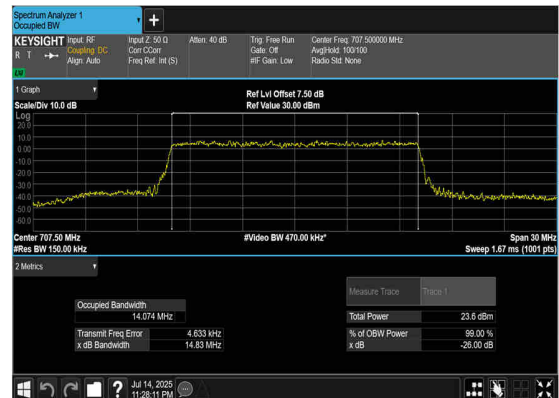
N12(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

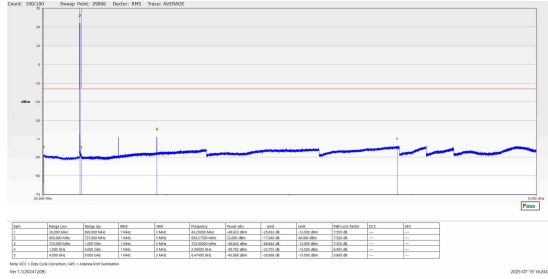
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS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



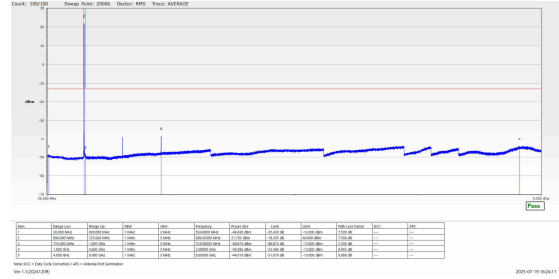
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	10	142200	711.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	142200	711.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	141300	706.5	DFT-s-OFDM BPSK	1@0	see graph	---
12	15	15	141300	706.5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



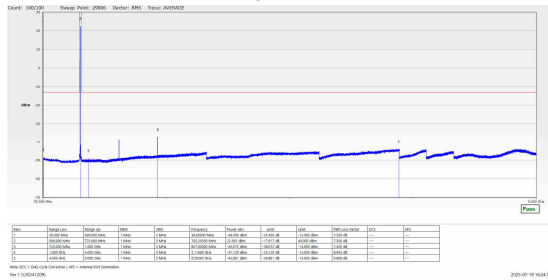
N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



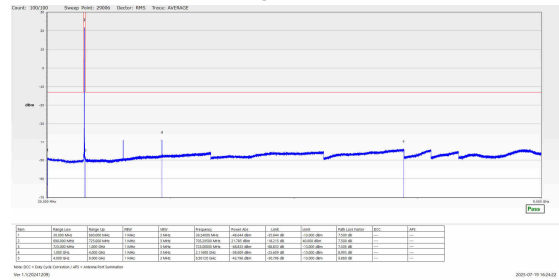
N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

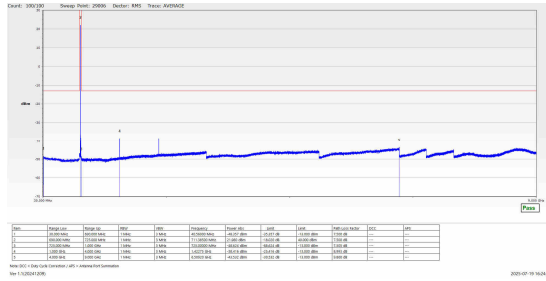


N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

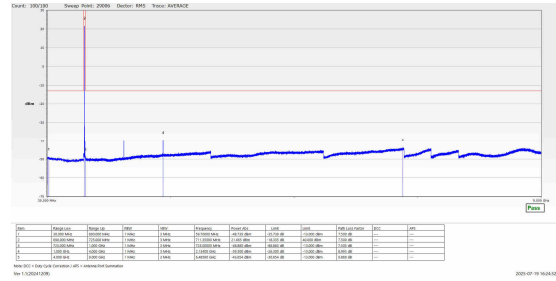




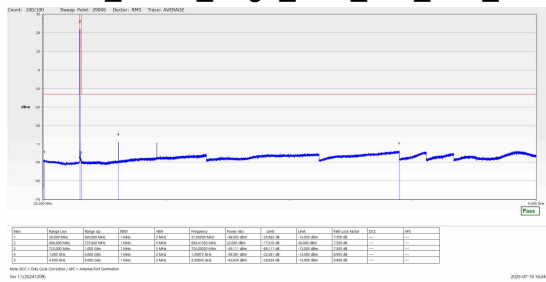
N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



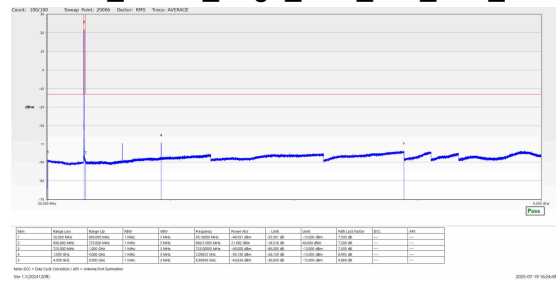
N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

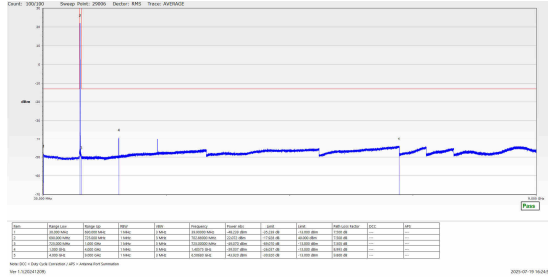


N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

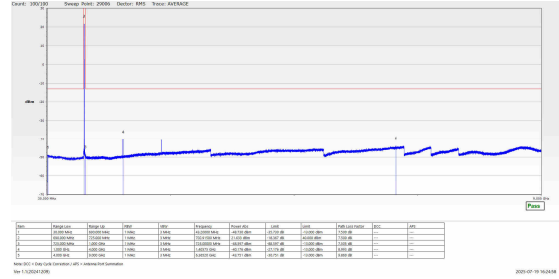




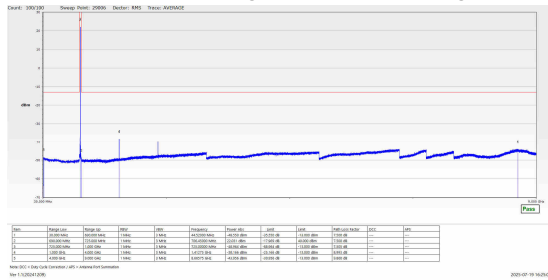
N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



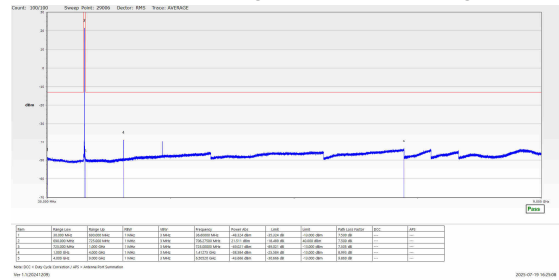
N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

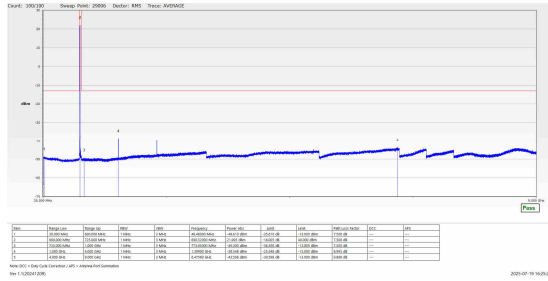


N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

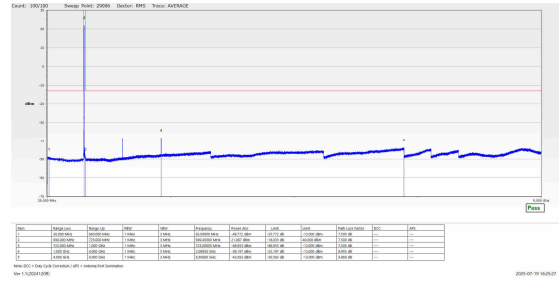




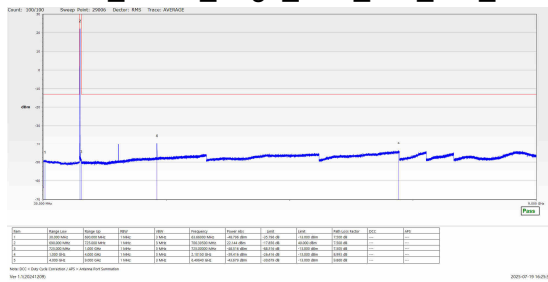
N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



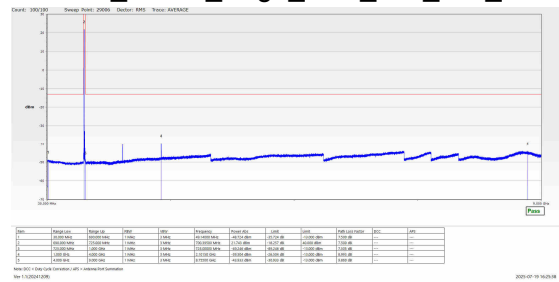
N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

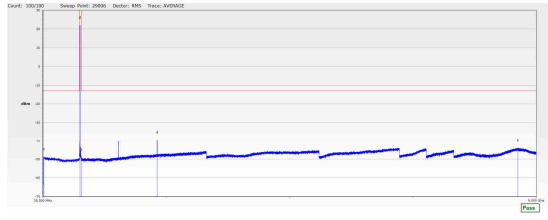


N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



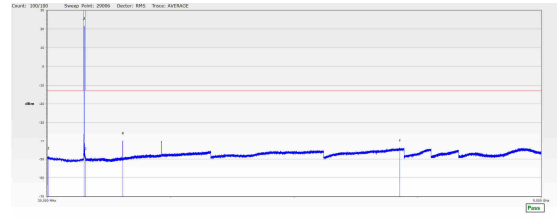
Item	Parameter	Value	Unit	Limit	Result	Pass/Fail
1	Carrier Frequency	1920.000	MHz	1920.000	1920.000	Pass
2	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
3	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
4	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
5	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
6	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
7	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
8	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
9	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
10	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass

New 801-1 Data Link Configuration (L1) - Internal Data Configuration

Ver 1.0/2020/10/26

2020-07-15 16:24:44

N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



Item	Parameter	Value	Unit	Limit	Result	Pass/Fail
1	Carrier Frequency	1920.000	MHz	1920.000	1920.000	Pass
2	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
3	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
4	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
5	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
6	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
7	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
8	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
9	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass
10	Carrier Frequency Error	0.000	Hz	±1000	0.000	Pass

New 801-1 Data Link Configuration (L1) - Internal Data Configuration

Ver 1.0/2020/10/26

2020-07-15 16:24:44

**Conducted Band Edge**

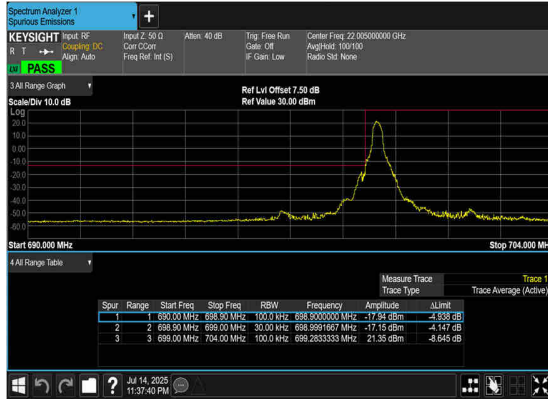
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	140300	701.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
12	15	5	140300	701.5	DFT-s-OFDM QPSK	25@0	see graph	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



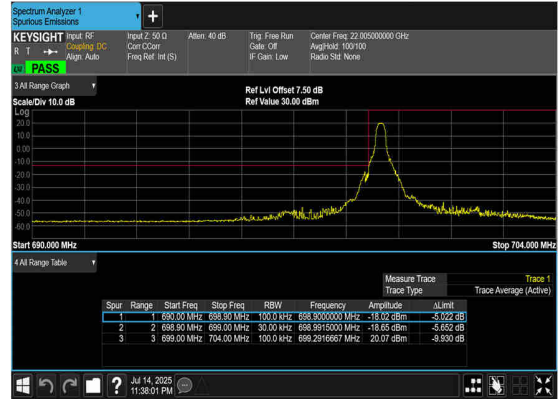
12	15	15	141700	708.5	DFT-s-OFDM BPSK	1@78	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM QPSK	1@78	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM BPSK	75@0	see graph	PASS
12	15	15	141700	708.5	DFT-s-OFDM QPSK	75@0	see graph	PASS



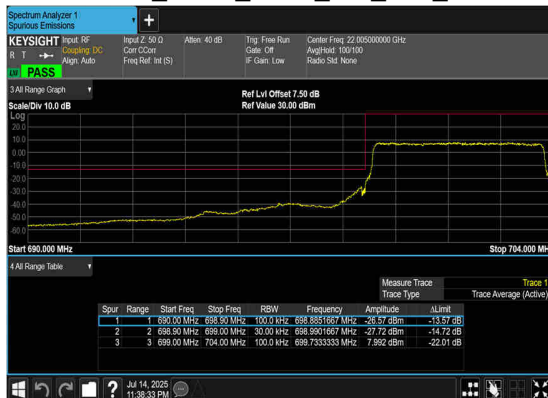
N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

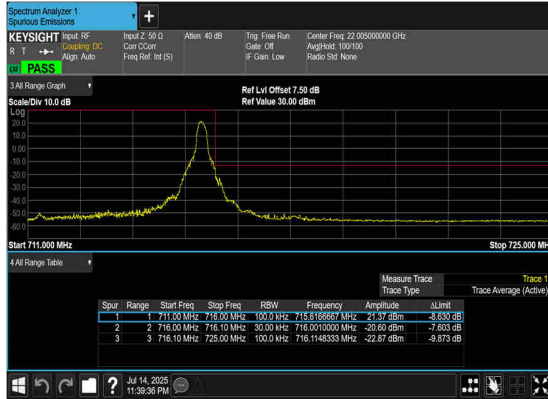


N12(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

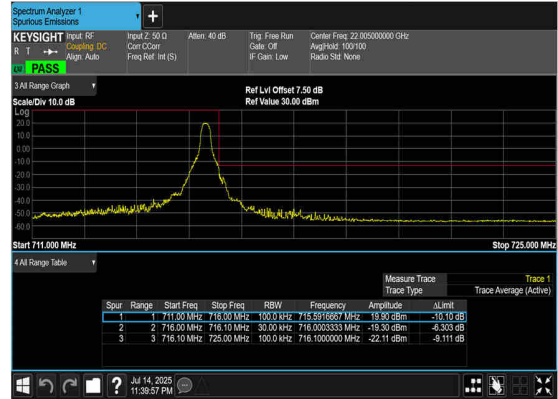




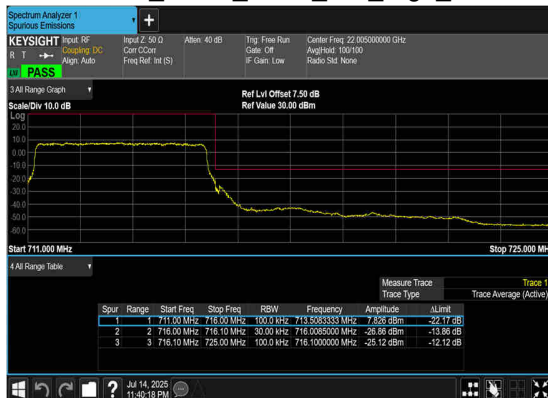
N12(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N12(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N12(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

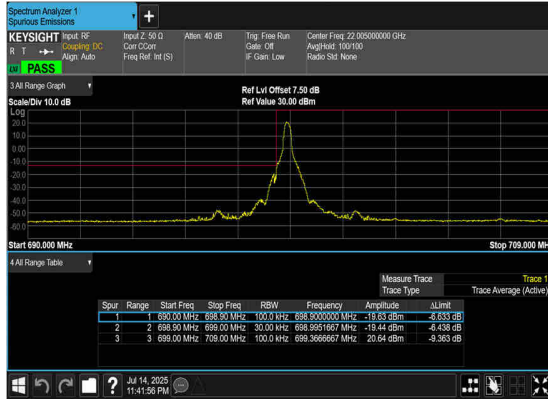


N12(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

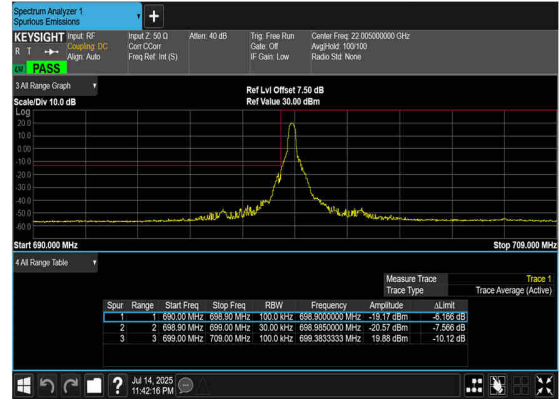




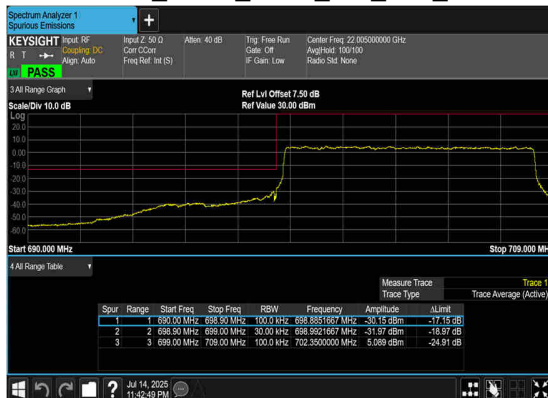
N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

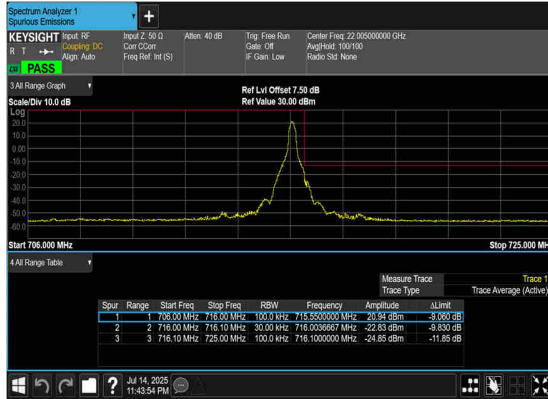


N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

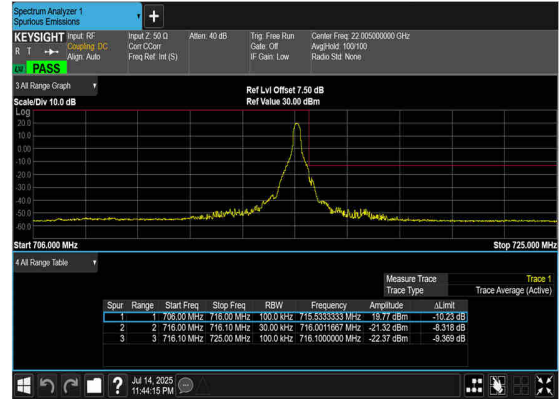




N12(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N12(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N12(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

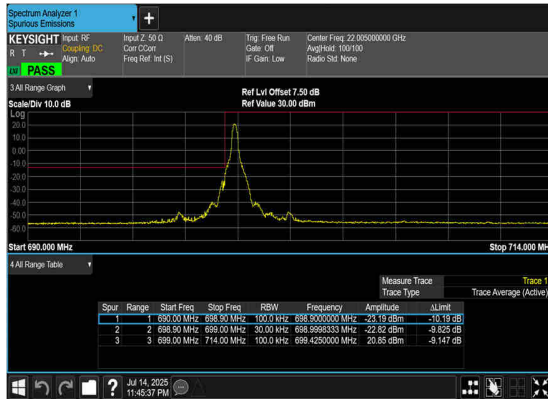


N12(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

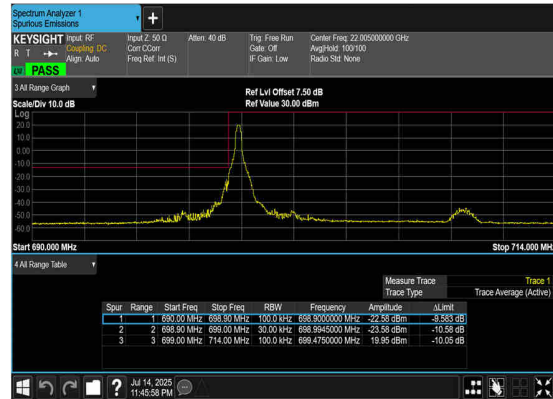




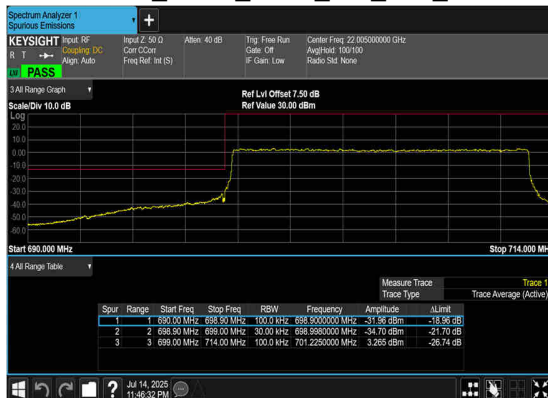
N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



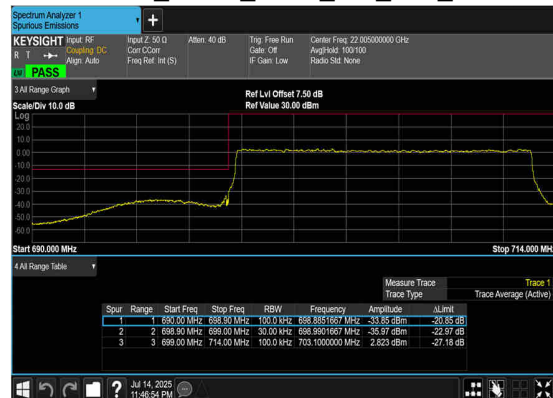
N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

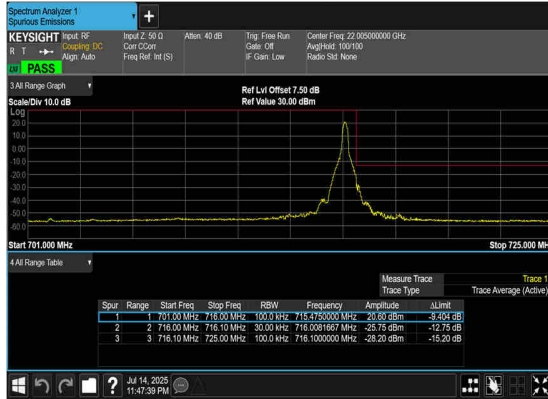


N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

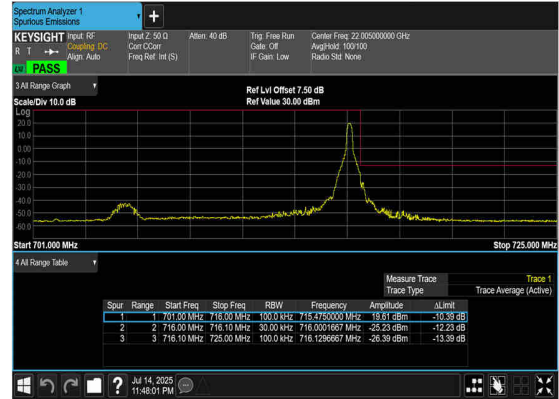




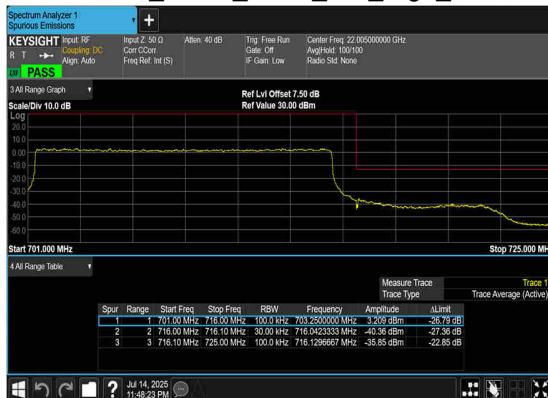
N12(15M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



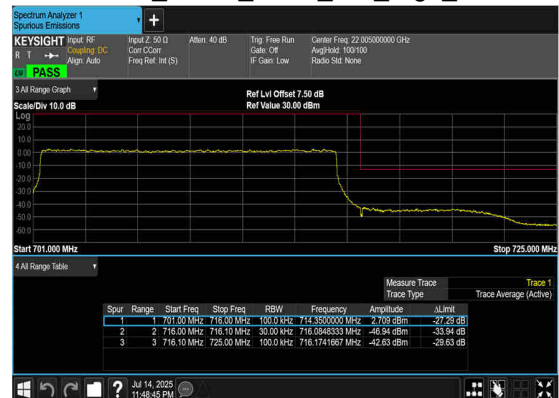
N12(15M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N12(15M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N12(15M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N13(ANT0)

Transmitter Conducted Output Power And ERP, (G_T - L_c)=-1.5dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
13	15	5	149700	779.5	DFT-s-OFDM QPSK	12@6	23.99	20.34	0.1081
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@1	24.16	20.51	0.1125
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@23	24.02	20.37	0.1089
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	12@6	22.87	19.22	0.0836
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	1@1	23.22	19.57	0.0906
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	1@23	23.19	19.54	0.0899
13	15	5	150200	782	DFT-s-OFDM QPSK	12@6	23.95	20.3	0.1072
13	15	5	150200	782	DFT-s-OFDM QPSK	1@1	24.06	20.41	0.1099
13	15	5	150200	782	DFT-s-OFDM QPSK	1@23	24.04	20.39	0.1094
13	15	5	150200	782	DFT-s-OFDM 16 QAM	12@6	23.12	19.47	0.0885
13	15	5	150200	782	DFT-s-OFDM 16 QAM	1@1	22.92	19.27	0.0845
13	15	5	150200	782	DFT-s-OFDM 16 QAM	1@23	23.08	19.43	0.0877
13	15	5	150700	784.5	DFT-s-OFDM QPSK	12@6	24.03	20.38	0.1091
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@1	24.14	20.49	0.1119
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@23	23.84	20.19	0.1045
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	12@6	22.78	19.13	0.0818
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	1@1	22.96	19.31	0.0853
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	1@23	22.89	19.24	0.0839
13	15	10	150200	782	DFT-s-OFDM PI/2 BPSK	25@12	24.14	20.49	0.1119
13	15	10	150200	782	DFT-s-OFDM PI/2 BPSK	1@1	24.17	20.52	0.1127
13	15	10	150200	782	DFT-s-OFDM PI/2 BPSK	1@50	23.96	20.31	0.1074
13	15	10	150200	782	DFT-s-OFDM QPSK	25@12	24.07	20.42	0.1102
13	15	10	150200	782	DFT-s-OFDM QPSK	1@1	24.24	20.59	0.1146
13	15	10	150200	782	DFT-s-OFDM QPSK	1@50	24.18	20.53	0.1130
13	15	10	150200	782	DFT-s-OFDM 16 QAM	25@12	23.13	19.48	0.0887
13	15	10	150200	782	DFT-s-OFDM 16 QAM	1@1	23.24	19.59	0.0910



13	15	10	150200	782	DFT-s-OFDM 16 QAM	1@50	23.01	19.36	0.0863
13	15	10	150200	782	DFT-s-OFDM 64 QAM	25@12	21.58	17.93	0.0621
13	15	10	150200	782	DFT-s-OFDM 64 QAM	1@1	21.76	18.11	0.0647
13	15	10	150200	782	DFT-s-OFDM 64 QAM	1@50	21.5	17.85	0.0610
13	15	10	150200	782	DFT-s-OFDM 256 QAM	25@12	19.5	15.85	0.0385
13	15	10	150200	782	DFT-s-OFDM 256 QAM	1@1	19.21	15.56	0.0360
13	15	10	150200	782	DFT-s-OFDM 256 QAM	1@50	19.19	15.54	0.0358
13	15	10	150200	782	CP-OFDM QPSK	26@13	22.59	18.94	0.0783
13	15	10	150200	782	CP-OFDM QPSK	1@1	22.94	19.29	0.0849
13	15	10	150200	782	CP-OFDM QPSK	1@50	22.64	18.99	0.0793



FR1 N13(ANT1)

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	12.1	PASS	NV
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	14.5	PASS	LV
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	16.6	PASS	HV
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	15	PASS	-30°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	13.2	PASS	-20°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	16.8	PASS	-10°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	11.1	PASS	0°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	15.2	PASS	10°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	12.1	PASS	20°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	11.5	PASS	30°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	19.3	PASS	40°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	17.8	PASS	50°C

$|\text{MAX}(\Delta f)| = 19.3 \text{ Hz}$

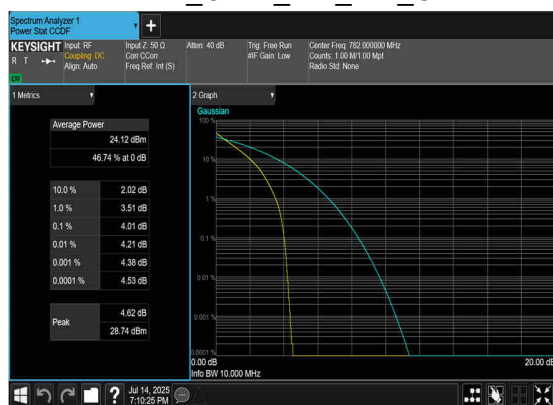
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	777.3246807	$\geq 777\text{MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	786.2957193	$\leq 787\text{MHz}$	



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
13	15	10	150200	782.0	DFT-s-OFDM PI/2 BPSK	50@0	4.01	13	PASS
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	4.57	13	PASS

N13(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N13(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
13	15	5	150200	782.0	CP-OFDM QPSK	25@0	4.4669	5.135
13	15	5	150200	782.0	CP-OFDM 16 QAM	25@0	4.4864	5.256
13	15	5	150200	782.0	CP-OFDM 64 QAM	25@0	4.4625	5.135
13	15	5	150200	782.0	CP-OFDM 256 QAM	25@0	4.48	5.043
13	15	10	150200	782.0	CP-OFDM QPSK	52@0	9.2962	10.12
13	15	10	150200	782.0	CP-OFDM 16 QAM	52@0	9.3011	10.01
13	15	10	150200	782.0	CP-OFDM 64 QAM	52@0	9.2862	10.03
13	15	10	150200	782.0	CP-OFDM 256 QAM	52@0	9.2937	10.08