



FCC RF Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : vivo
MODEL NAME : V2349
FCC ID : 2AUCY-V2349
STANDARD : 47 CFR Part 2, 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jan. 06, 2024 ~ Jan. 24, 2024

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

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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

People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY... 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 ... 5
1.5 Modification of EUT ... 6
1.6 Maximum ERP/EIRP and Emission Designator ... 7
1.7 Testing Location ... 9
1.8 Test Software ... 9
1.9 Applicable Standards ... 9
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ... 10
2.1 Test Mode ... 10
2.2 Connection Diagram of Test System ... 12
2.3 Support Unit used in test configuration and system ... 12
2.4 Measurement Results Explanation Example ... 12
2.5 Frequency List of Low/Middle/High Channels ... 13
3 CONDUCTED TEST ITEMS ... 16
3.1 Measuring Instruments ... 16
3.2 Test Setup ... 16
3.3 Test Result of Conducted Test ... 16
3.4 Conducted Output Power and ERP/EIRP ... 17
3.5 Peak-to-Average Ratio ... 18
3.6 Occupied Bandwidth ... 19
3.7 Conducted Band Edge ... 20
3.8 Conducted Spurious Emission ... 22
3.9 Frequency Stability ... 23
4 RADIATED TEST ITEMS ... 24
4.1 Measuring Instruments ... 24
4.2 Test Setup ... 24
4.3 Test Result of Radiated Test ... 25
4.4 Radiated Spurious Emission ... 26
5 LIST OF MEASURING EQUIPMENT ... 27
6 MEASUREMENT UNCERTAINTY ... 28
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
FG3D0709E	Rev. 01	Initial issue of report	Feb. 05, 2024



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		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n2) (5G NR n7, n41, n38)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	§24.232(d) §27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41, n38)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n2) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41, n38)	< 55+10log ₁₀ (P[Watts])		
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) §24.238(a) §27.53(h)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n2) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 29.53 dB at 10104.36 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41, n38)	< 55+10log ₁₀ (P[Watts])		

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/manufacturer 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

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2349
FCC ID	2AUCY-V2349
IMEI Code	Conducted : 866829079997636/866829079997628 Radiation : 865264079978645/865264079978652
HW Version	MP_0.1
SW Version	PD2341EF_EX_A_14.0.6.16.W30
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n26 : 859 MHz ~ 894 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2200 MHz
Bandwidth	n2, n5, n26 : 5MHz / 10MHz / 15MHz / 20MHz n38 : 10MHz / 15MHz / 20MHz / 30MHz/ 40MHz n7 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz/ 40MHz n66 : 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz/ 35MHz/ 40MHz



	n41: 10MHz / 15MHz /20MHz / 30MHz/ 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz for FDD bands 30kHz for TDD bands
Antenna Gain	<p><Ant. 11>: n2 : -4.24 dBi n7 : -4.94 dBi n38 : -4.99 dBi n41: -4.94 dBi n66: -3.51 dBi</p> <p><Ant. 13>: n2 : -2.61 dBi n5 : -3.91 dBi n26 : -3.91 dBi n7 : -0.13 dBi n38 : -0.73 dBi n41 0.47 dBi n66: -0.85 dBi</p> <p><Ant. 31>: n2 : -0.03 dBi n5 : -5.38 dBi n26 : -5.38 dBi n7 : 0.16 dBi n38 : -1.23 dBi n41 : 0.16 dBi n66: -2.52 dBi</p>
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 of Ant. 31 for 5G NR n2, and Ant. 13 for n5/n7/n26/n38/n41/n66 are shown in the report.
2. 5G NR n26 support SA mode, n2/n5/n7/n38/n41/n66 support SA & NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode for conducted test items.
3. The device supports HPUE mode for 5G NR n41.
4. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
5. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP and Emission Designator

5G NR n2		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	1852.5 ~ 1907.5	0.2014	4M47G7D	0.1807	4M50W7D
10	1855.0 ~ 1905.0	0.1945	9M29G7D	0.1820	9M30W7D
15	1857.5 ~ 1902.5	0.1854	14M1G7D	0.1770	14M1W7D
20	1860.0 ~ 1900.0	0.2028	18M9G7D	0.1714	19M0W7D
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	0.0643	4M46G7D	0.0601	4M49W7D
10	829.0 ~ 844.0	0.0634	9M28G7D	0.0586	9M29W7D
15	831.5 ~ 841.5	0.0655	14M1G7D	0.0598	14M1W7D
20	834.0 ~ 839.0	0.0673	18M9G7D	0.0589	18M9W7D
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	0.0637	4M46G7D	0.0565	4M49W7D
10	829.0 ~ 844.0	0.0628	9M28G7D	0.0581	9M29W7D
15	831.5 ~ 841.5	0.0647	14M1G7D	0.0577	14M1W7D
20	834.0 ~ 839.0	0.0681	18M9G7D	0.0594	18M9W7D
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	0.2280	4M48G7D	0.1982	4M49W7D
10	1715.0 ~ 1775.0	0.2265	9M29G7D	0.1986	9M30W7D
15	1717.5 ~ 1772.5	0.2307	14M1G7D	0.2009	14M1W7D
20	1720.0 ~ 1770.0	0.2366	18M9G7D	0.2118	19M0W7D
25	1722.5 ~ 1767.5	0.2410	23M8G7D	0.2203	23M8W7D
30	1725.0 ~ 1765.0	0.2410	28M5G7D	0.2113	28M6W7D
35	1727.5 ~ 1762.5	0.2366	33M5G7D	0.2099	33M5W7D
40	1730.0 ~ 1760.0	0.2415	38M6G7D	0.2213	38M6W7D



5G NR n7		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	2502.5 ~ 2567.5	0.2128	4M47G7D	0.1875	4M50W7D
10	2505.0 ~ 2565.0	0.2089	9M27G7D	0.1866	9M31W7D
15	2507.5 ~ 2562.5	0.2128	14M1G7D	0.1923	14M1W7D
20	2510.0 ~ 2560.0	0.2123	18M9G7D	0.1941	18M9W7D
25	2512.5 ~ 2557.5	0.2143	23M7G7D	0.1941	23M8W7D
30	2515.0 ~ 2555.0	0.2133	28M5G7D	0.1901	28M5W7D
40	2520.0 ~ 2550.0	0.2183	38M5G7D	0.1950	38M5W7D
5G NR n38		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2575.0 ~ 2615.0	0.2518	8M55G7D	0.2547	8M59W7D
15	2577.5 ~ 2612.5	0.2512	13M6G7D	0.2518	13M6W7D
20	2580.0 ~ 2610.0	0.2489	18M3G7D	0.2495	18M3W7D
30	2585.0 ~ 2605.0	0.2535	28M0G7D	0.2570	27M9W7D
40	2590.0 ~ 2600.0	0.2667	37M8G7D	0.2661	37M9W7D
5G NR n41		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.3342	8M55G7D	0.3381	8M59W7D
15	2503.50 ~ 2682.48	0.3334	13M6G7D	0.3289	13M6W7D
20	2506.02 ~ 2679.99	0.3327	18M3G7D	0.3350	18M3W7D
30	2511.00 ~ 2674.98	0.3365	28M0G7D	0.3412	27M9W7D
40	2516.01 ~ 2670.00	0.3388	37M8G7D	0.3459	37M9W7D
50	2521.02 ~ 2664.99	0.3381	47M5G7D	0.3373	47M6W7D
60	2526.00 ~ 2659.98	0.3281	57M8G7D	0.3365	58M0W7D
70	2531.01 ~ 2655.00	0.3258	67M6G7D	0.3281	67M6W7D
80	2536.02 ~ 2649.99	0.3126	77M6G7D	0.3199	77M6W7D
90	2541.00 ~ 2644.98	0.3126	87M5G7D	0.3141	87M6W7D
100	2546.01 ~ 2640.00	0.3540	97M4G7D	0.3524	97M7W7D

Note:

1. 5G NR n26 overlaps the entire frequency range of 5G NR n5. Therefore, the test results provided in this report covers 5G NR n5 and the portion of 5G NR n26 subject to Part 22.
2. 5G NR n41 overlaps the entire frequency range of 5G NR n38. Therefore, the test results provided in this report covers 5G NR n41 as well as 5G NR n38.
3. 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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

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 2, 22, 24, 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 (X 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.

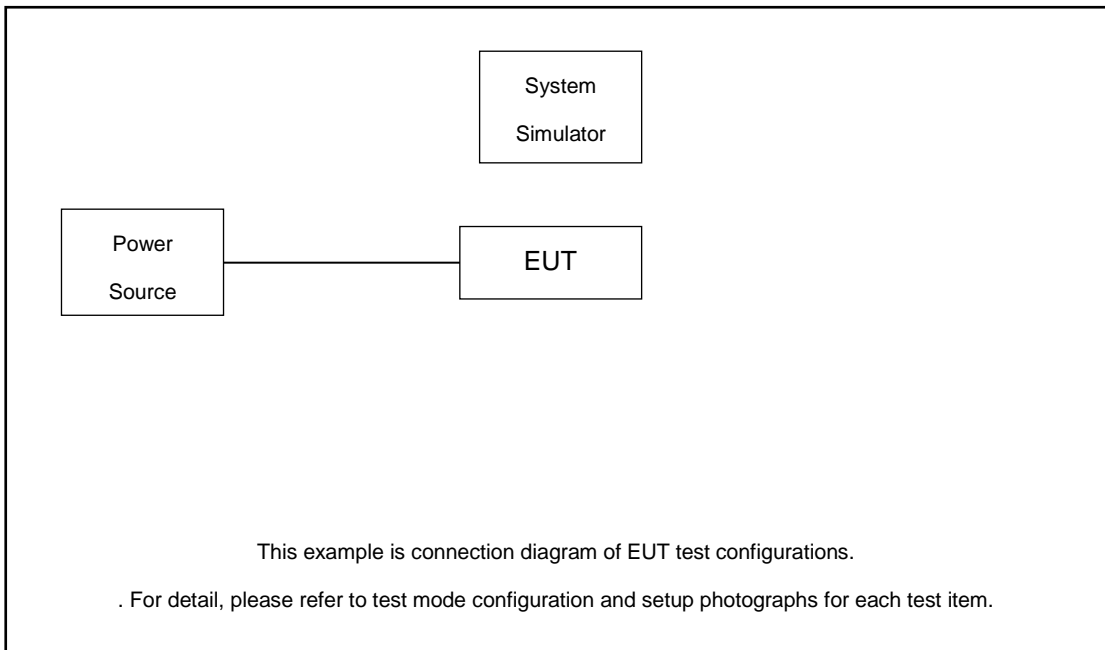
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)														Modulation					RB #		Test Channel					
		5	10	15	20	25	30	35	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H			
Max. Output Power	n2	v	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	
	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n7	v	v	v	v	v	v	-	v	-	-	-	-	-	-	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	v	v	v
	n38	-	v	v	v	-	v	-	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	-	v	v	v	v	v	v	v	v	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	v	v
Peak-to-Average Ratio	n2				v	-	-	-	-	-	-	-	-	-	-	v	v					v			v			
	n7				v				-	-	-	-	-	-	-	v	v					v			v			
	n26				v	-	-	-	-	-	-	-	-	-	-	v	v					v			v			
	n41	-			v	-										v	v					v			v			
	n66										-	-	-	-	-	-	v	v					v			v		
26dB and 99% Bandwidth	n2	v	v	v	v	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v			v			
	n7	v	v	v	v	v	v	-	v	-	-	-	-	-	-		v	v	v	v		v			v			
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	-		v	v	v	v		v			v			
	n41	-	v	v	v	-	v	-	v	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			



Conducted Band Edge	n2	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n7	v		v			-	v	-	-	-	-	-	-	v	v				v	v	v		v
	n26	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n41	-	v		-			v							v	v				v	v	v		v
	n66	v		v	-	-	-	v	-	-	-	-	-	-	v	v				v	v	v		v
Conducted Spurious Emission	n2	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n7	v		v			-	v	-	-	-	-	-	-	v	v				v		v	v	v
	n26	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n41	-	v		-			v							v	v				v		v	v	v
	n66	v		v				v	-	-	-	-	-	-	v	v				v		v	v	v
Frequency Stability	n2			v	-	-	-	-	-	-	-	-	-	-	v						v		v	
	n7			v			-		-	-	-	-	-	-	v						v		v	
	n26			v	-	-	-	-	-	-	-	-	-	-	v						v		v	
	n41	-		v	-										v						v		v	
	n66			v					-	-	-	-	-	-	v						v		v	
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n7	v	v	v	v	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
	n38	-	v	v	v	-	v	-	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	-	v	v	v	v	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
Radiated Spurious Emission	n2	Worst Case																				v		
	n5	Worst Case																				v		
	n7	Worst Case																				v		
	n26	Worst Case																				v		
	n38	Worst Case																				v		
	n41	Worst Case																				v		
	n66	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 = 3.91V ; Low Voltage =3.7V. ; High Voltage =4.4V																							

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.

$$\text{Offset} = \text{RF cable loss}$$

Following shows an offset computation example with cable loss 8.0 dB.

Example :

$$\text{Offset(dB)} = \text{RF cable loss(dB)} = 8.0(\text{dB})$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

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 n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5



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 n38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99



40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
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

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

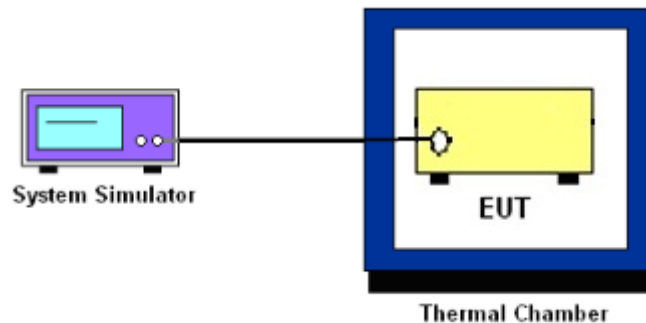
3.2.1 Conducted Output Power



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 7 Watts for 5G NR n5, n26.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2, n7, n38, n41.

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

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(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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the 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 (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(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(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.



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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

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

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

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.

For 5G NR n7/n38/n41:

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 $55 + 10 \log (P)$ 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)
= -13dBm.
11. For 5G NR n7/n38/n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [55 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
= -25dBm.



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.

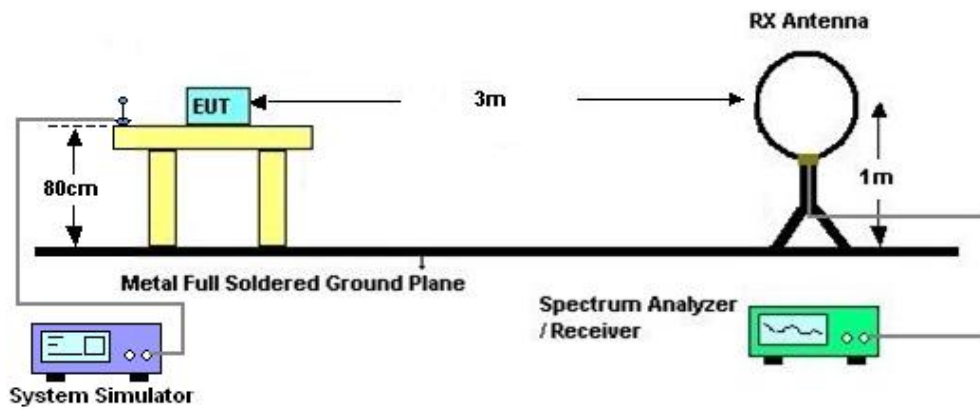
4 Radiated Test Items

4.1 Measuring Instruments

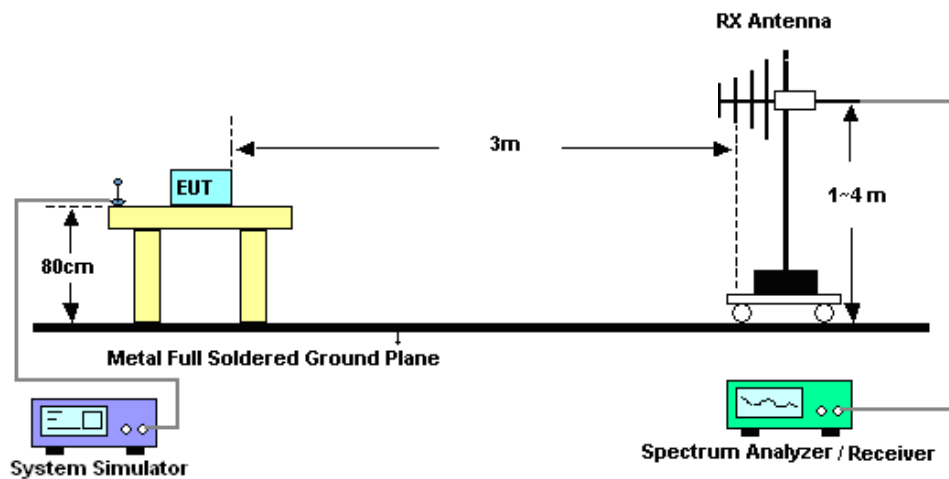
See list of measuring instruments of this test report.

4.2 Test Setup

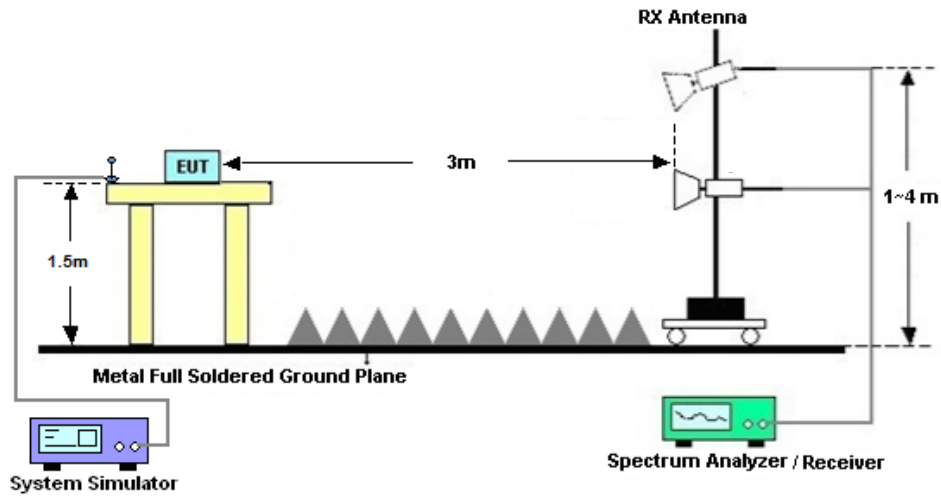
4.2.1 For radiated test below 30MHz



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.

For 5G NR n7/n38/n41

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 $55 + 10 \log (P)$ 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. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
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)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$

13. For 5G NR n7/n38/n41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Jan. 06, 2024~Jan. 24, 2024	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Jan. 06, 2024~Jan. 24, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Jan. 06, 2024~Jan. 24, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Jan. 06, 2024~Jan. 24, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023	Jan. 17, 2024	Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023	Jan. 17, 2024	Apr. 03, 2024	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Jan. 17, 2024	Jun. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Jan. 17, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023	Jan. 17, 2024	Apr. 07, 2024	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	Jan. 17, 2024	Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Jan. 17, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Jan. 17, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jan. 17, 2024	Jul. 06, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Jan. 17, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 17, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 17, 2024	NCR	Radiation (03CH03-SZ)
Thermo meter	Anymetre	JR593	#11	- 10°C ~ 50°C 10%RH~99%RH	Oct. 19, 2023	Jan. 17, 2024	Oct. 18, 2024	Radiation (03CH03-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 (9 KHz ~ 30 MHz)

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

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8 dB
---	--------

----- THE END -----



Appendix A. Test Results of Conducted Test

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

FR1 N2 (ANT31)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.03dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@1	22.52	22.49	0.1774
2	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.07	22.04	0.1600
2	15	5	376000	1880	DFT-s-OFDM QPSK	1@1	22.82	22.79	0.1901
2	15	5	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.39	22.36	0.1722
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@1	23.07	23.04	0.2014
2	15	5	381500	1907.5	DFT-s-OFDM 16 QAM	1@1	22.6	22.57	0.1807
2	15	10	371000	1855	DFT-s-OFDM QPSK	1@1	22.57	22.54	0.1795
2	15	10	371000	1855	DFT-s-OFDM 16 QAM	1@1	22.15	22.12	0.1629
2	15	10	376000	1880	DFT-s-OFDM QPSK	1@1	22.6	22.57	0.1807
2	15	10	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.27	22.24	0.1675
2	15	10	381000	1905	DFT-s-OFDM QPSK	1@1	22.92	22.89	0.1945
2	15	10	381000	1905	DFT-s-OFDM 16 QAM	1@1	22.63	22.6	0.1820
2	15	15	371500	1857.5	DFT-s-OFDM QPSK	1@1	22.59	22.56	0.1803
2	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	1@1	22.08	22.05	0.1603
2	15	15	376000	1880	DFT-s-OFDM QPSK	1@1	22.62	22.59	0.1816
2	15	15	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.28	22.25	0.1679
2	15	15	380500	1902.5	DFT-s-OFDM QPSK	1@1	22.71	22.68	0.1854
2	15	15	380500	1902.5	DFT-s-OFDM 16 QAM	1@1	22.51	22.48	0.1770
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	50@25	22.48	22.45	0.1758
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@1	22.25	22.22	0.1667
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@104	22.34	22.31	0.1702
2	15	20	372000	1860	DFT-s-OFDM QPSK	50@25	22.43	22.4	0.1738
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@1	22.44	22.41	0.1742
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@104	22.51	22.48	0.1770
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	50@25	21.94	21.91	0.1552
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@1	22.04	22.01	0.1589
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@104	22.13	22.1	0.1622
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	50@25	20.29	20.26	0.1062
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@1	20.19	20.16	0.1038

2	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@104	20.41	20.38	0.1091
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	50@25	18.26	18.23	0.0665
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@1	17.96	17.93	0.0621
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@104	18.21	18.18	0.0658
2	15	20	372000	1860	CP-OFDM QPSK	53@26	20.98	20.95	0.1245
2	15	20	372000	1860	CP-OFDM QPSK	1@1	20.86	20.83	0.1211
2	15	20	372000	1860	CP-OFDM QPSK	1@104	21.01	20.98	0.1253
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	50@25	22.69	22.66	0.1845
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	22.53	22.5	0.1778
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	1@104	22.55	22.52	0.1786
2	15	20	376000	1880	DFT-s-OFDM QPSK	50@25	22.6	22.57	0.1807
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@1	22.49	22.46	0.1762
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@104	22.67	22.64	0.1837
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	50@25	22.1	22.07	0.1611
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.17	22.14	0.1637
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@104	22.27	22.24	0.1675
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	50@25	20.45	20.42	0.1102
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	1@1	20.45	20.42	0.1102
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	1@104	20.71	20.68	0.1169
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	50@25	18.4	18.37	0.0687
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	1@1	18.3	18.27	0.0671
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	1@104	18.34	18.31	0.0678
2	15	20	376000	1880	CP-OFDM QPSK	53@26	21.31	21.28	0.1343
2	15	20	376000	1880	CP-OFDM QPSK	1@1	21.19	21.16	0.1306
2	15	20	376000	1880	CP-OFDM QPSK	1@104	21.37	21.34	0.1361
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	50@25	23.1	23.07	0.2028
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	1@1	22.55	22.52	0.1786
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	1@104	22.74	22.71	0.1866
2	15	20	380000	1900	DFT-s-OFDM QPSK	50@25	22.82	22.79	0.1901
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@1	22.9	22.87	0.1936
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@104	22.96	22.93	0.1963
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	50@25	22.31	22.28	0.1690
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@1	22.34	22.31	0.1702
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@104	22.37	22.34	0.1714
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	50@25	20.66	20.63	0.1156

2	15	20	380000	1900	DFT-s-OFDM 64 QAM	1@1	20.68	20.65	0.1161
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	1@104	20.89	20.86	0.1219
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	50@25	18.69	18.66	0.0735
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	1@1	18.41	18.38	0.0689
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	1@104	18.52	18.49	0.0706
2	15	20	380000	1900	CP-OFDM QPSK	53@26	21.36	21.33	0.1358
2	15	20	380000	1900	CP-OFDM QPSK	1@1	21.21	21.18	0.1312
2	15	20	380000	1900	CP-OFDM QPSK	1@104	21.02	20.99	0.1256

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0029	PASS	NV
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0028	PASS	LV
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0050	PASS	HV
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0027	PASS	-30°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0066	PASS	-20°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0065	PASS	-10°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0030	PASS	0°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0030	PASS	10°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0029	PASS	20°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0041	PASS	30°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0022	PASS	40°C
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	0.0040	PASS	50°C

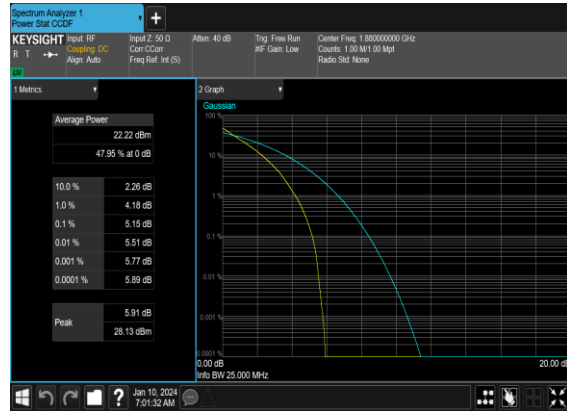
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
2	15	20	376000	1880.0	DFT-s-OFDM PI/2 BPSK	100@0	3.96	13	PASS
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	100@0	5.15	13	PASS

N2(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N2(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



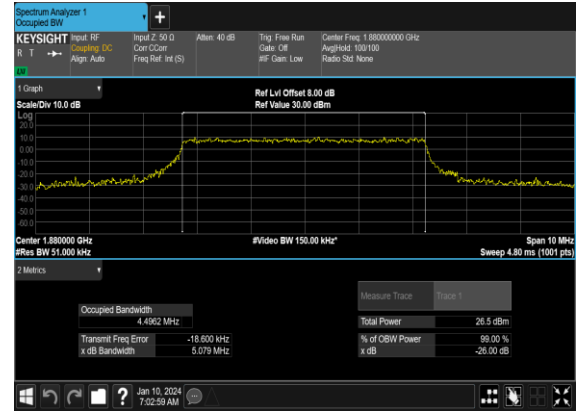
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
2	15	5	376000	1880.0	CP-OFDM QPSK	25@0	4.4711	5.118
2	15	5	376000	1880.0	CP-OFDM 16 QAM	25@0	4.4962	5.079
2	15	5	376000	1880.0	CP-OFDM 64 QAM	25@0	4.4616	4.904
2	15	5	376000	1880.0	CP-OFDM 256 QAM	25@0	4.4818	5.095
2	15	10	376000	1880.0	CP-OFDM QPSK	52@0	9.2899	10.12
2	15	10	376000	1880.0	CP-OFDM 16 QAM	52@0	9.2978	9.945
2	15	10	376000	1880.0	CP-OFDM 64 QAM	52@0	9.2551	9.965
2	15	10	376000	1880.0	CP-OFDM 256 QAM	52@0	9.2812	10.02
2	15	15	376000	1880.0	CP-OFDM QPSK	79@0	14.106	15.0
2	15	15	376000	1880.0	CP-OFDM 16 QAM	79@0	14.127	14.93
2	15	15	376000	1880.0	CP-OFDM 64 QAM	79@0	14.107	14.77
2	15	15	376000	1880.0	CP-OFDM 256 QAM	79@0	14.085	15.37
2	15	20	376000	1880.0	CP-OFDM QPSK	106@0	18.935	19.82
2	15	20	376000	1880.0	CP-OFDM 16 QAM	106@0	18.956	19.76
2	15	20	376000	1880.0	CP-OFDM 64 QAM	106@0	18.954	19.89
2	15	20	376000	1880.0	CP-OFDM 256 QAM	106@0	18.914	19.95

N2(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N2(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



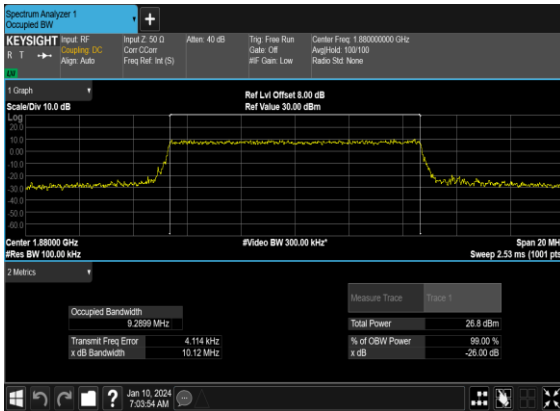
N2(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



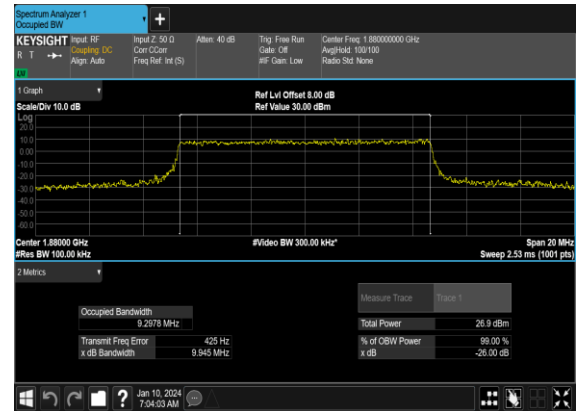
N2(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



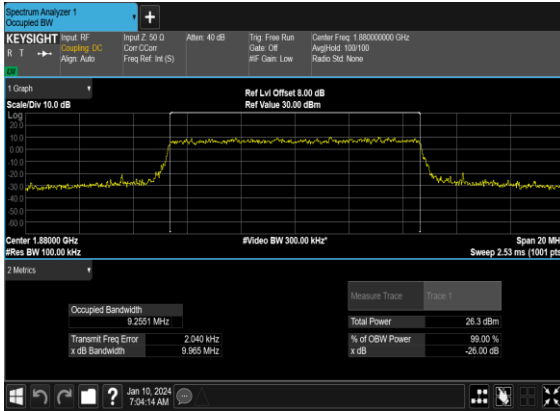
N2(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



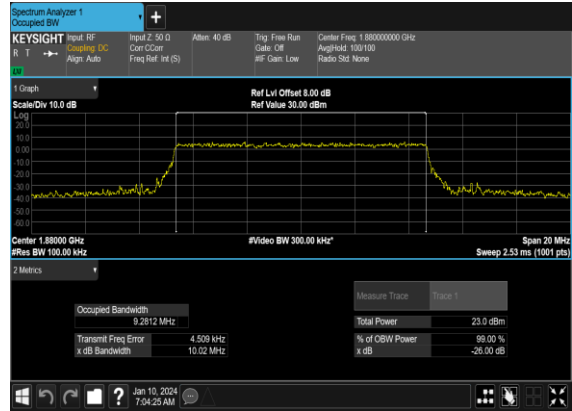
N2(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N2(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N2(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



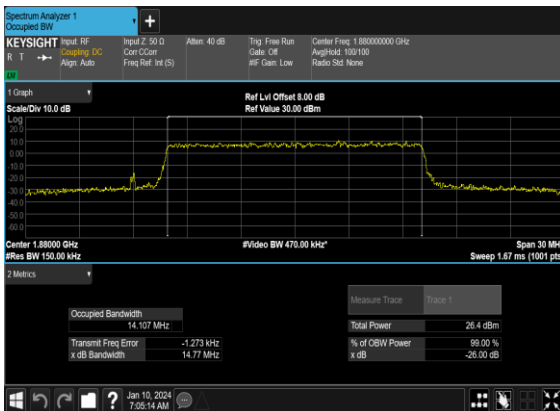
N2(15M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



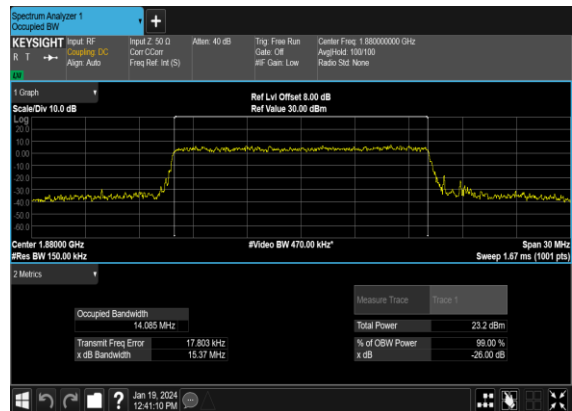
N2(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N2(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



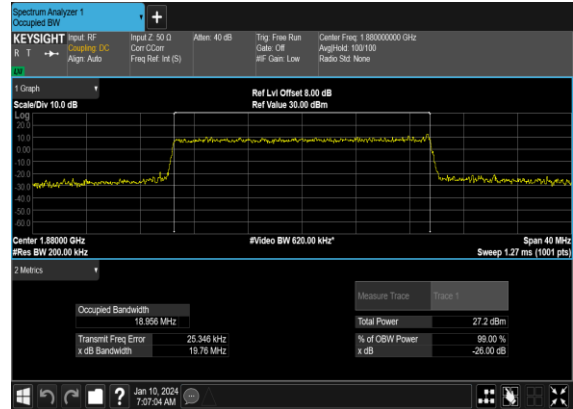
N2(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N2(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



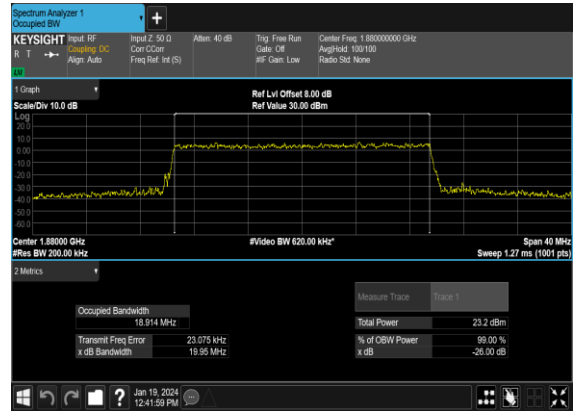
N2(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N2(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N2(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

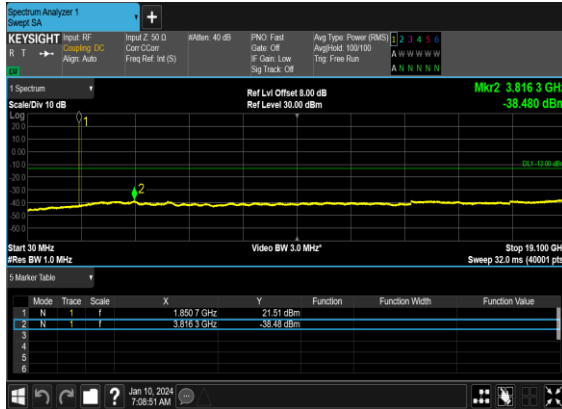


Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	5	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	5	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	10	371000	1855.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	10	371000	1855.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	10	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	10	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	10	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	10	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	10	381000	1905.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

2	15	10	381000	1905.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	10	381000	1905.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	20	376000	1880.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	20	376000	1880.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@0	see graph	---
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@0	see graph	---
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

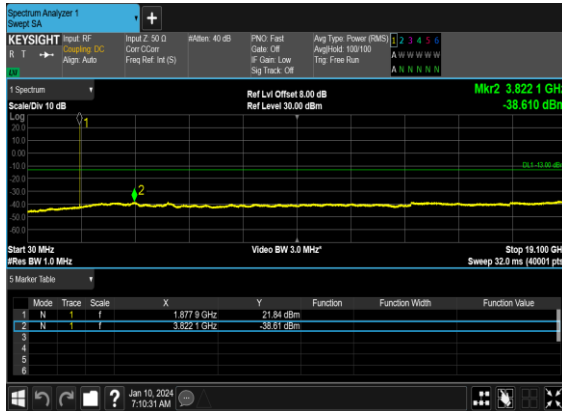
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



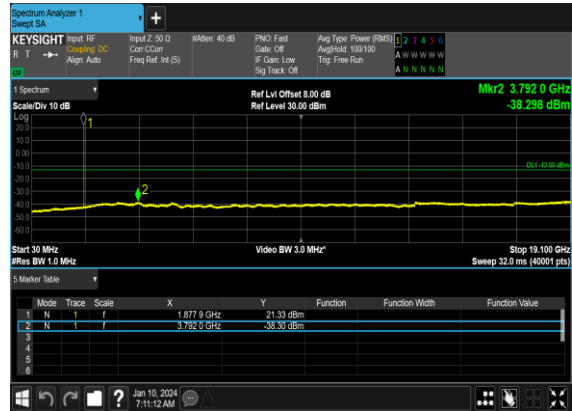
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



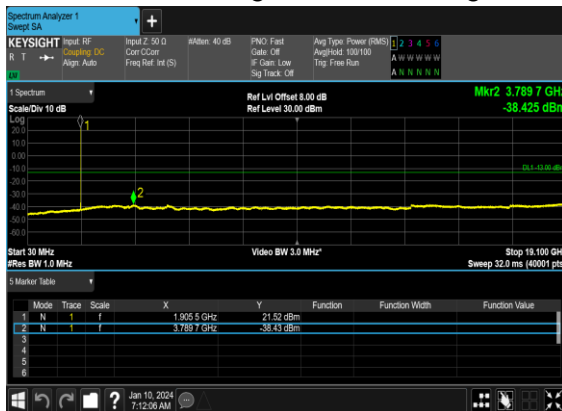
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



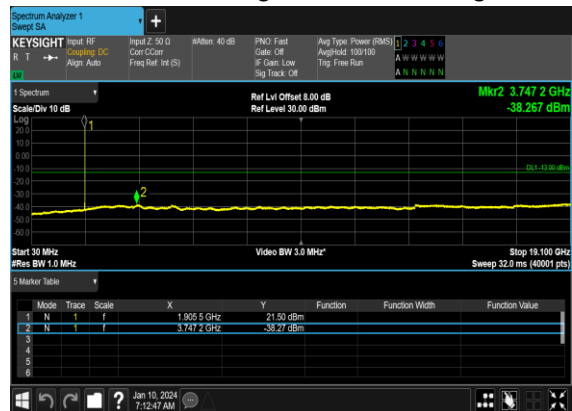
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



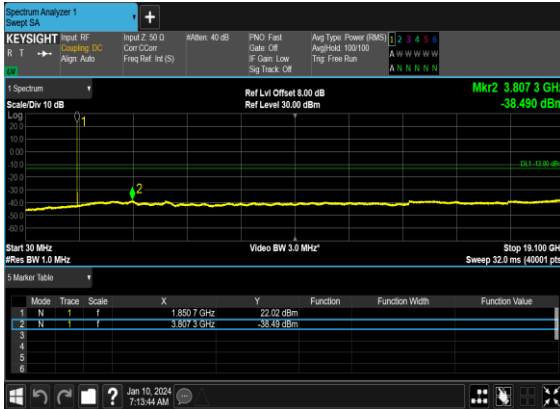
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



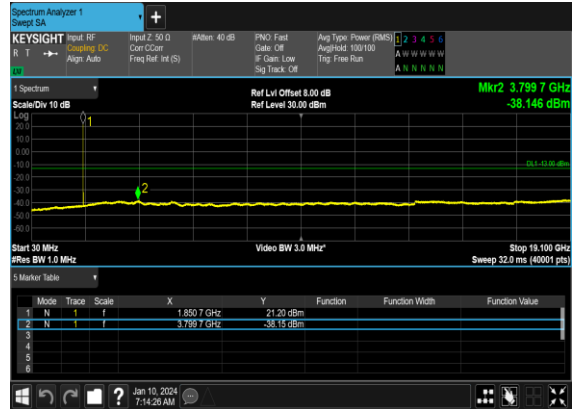
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



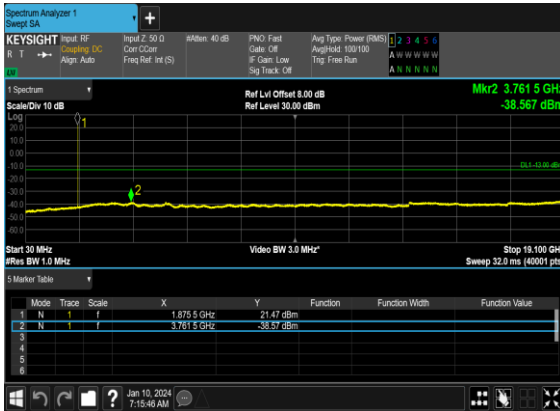
N2(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



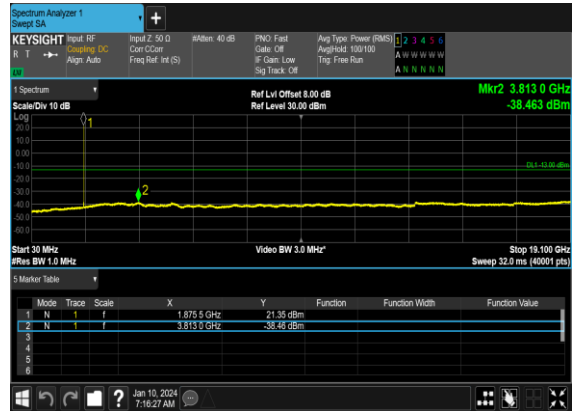
N2(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



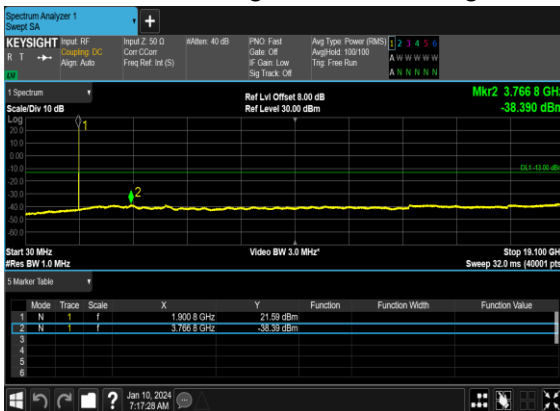
N2(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



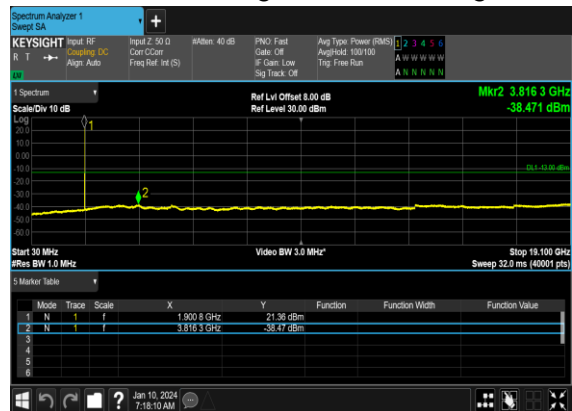
N2(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



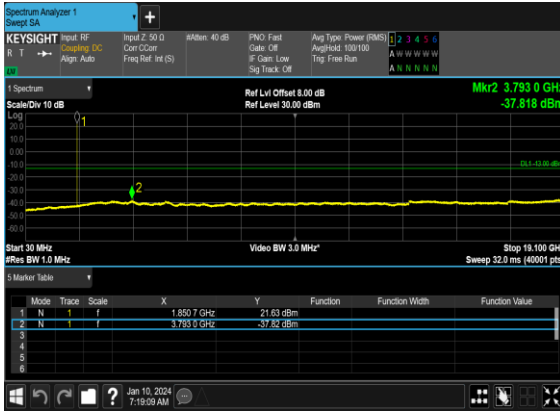
N2(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



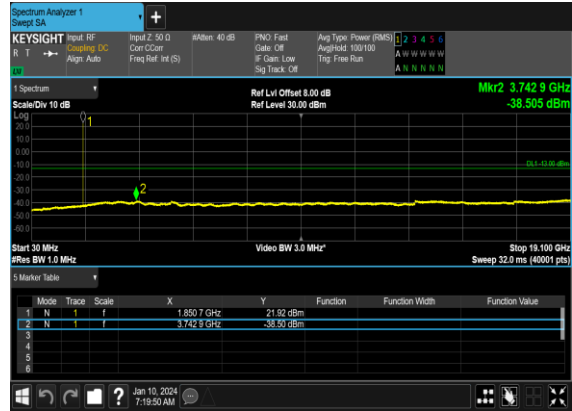
N2(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



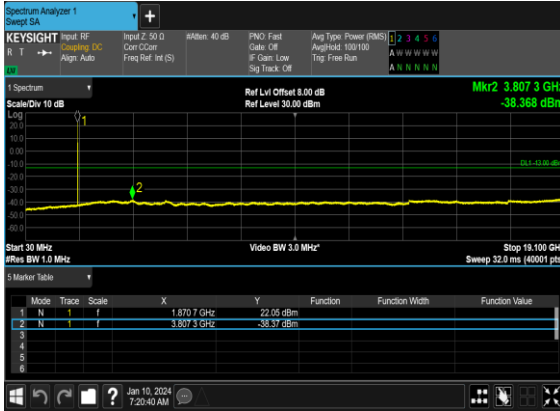
N2(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



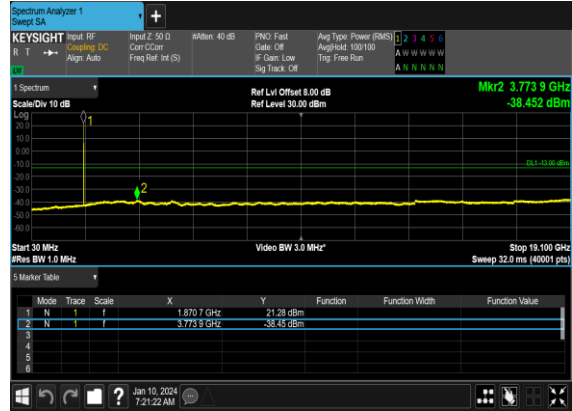
N2(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



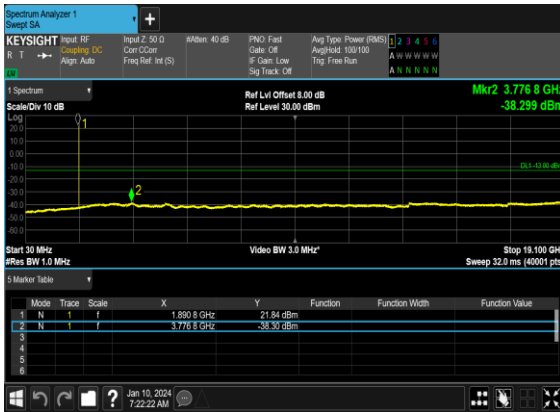
N2(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



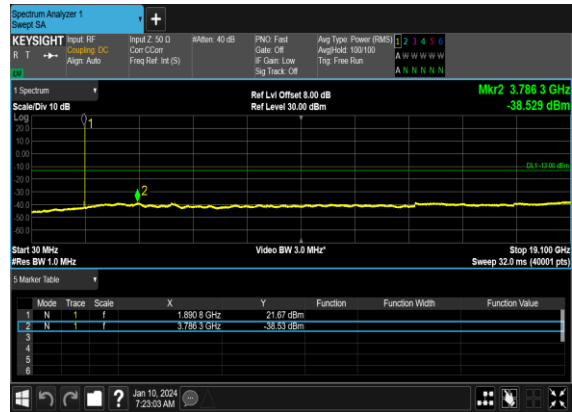
N2(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N2(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



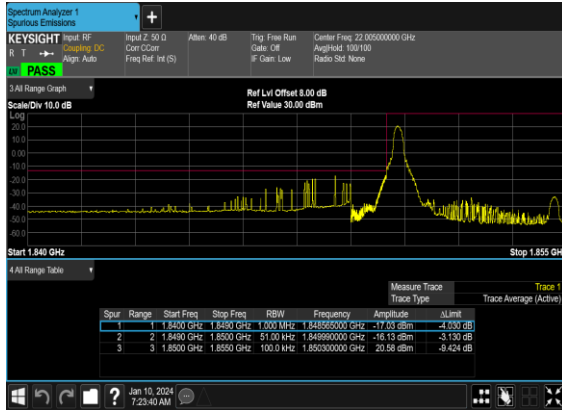
N2(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



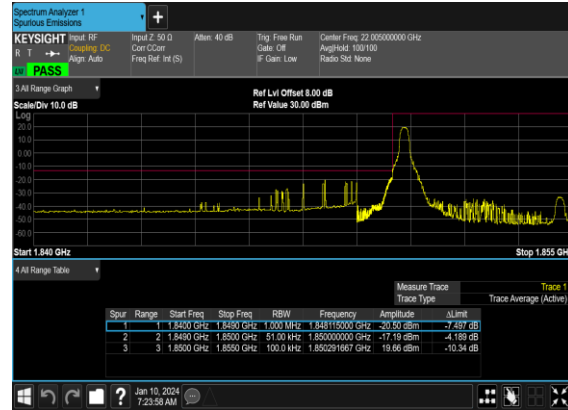
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
2	15	10	371000	1855.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
2	15	10	381000	1905.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
2	15	20	372000	1860.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
2	15	20	380000	1900.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

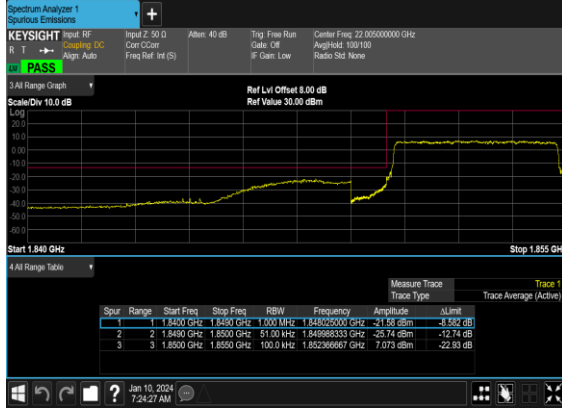
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



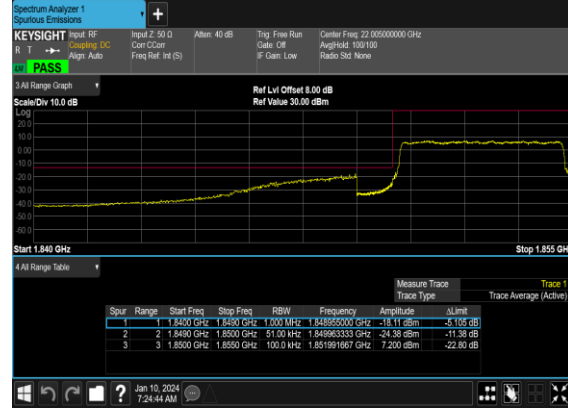
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



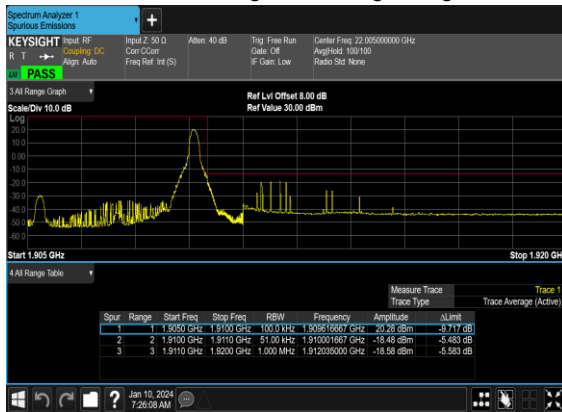
N2(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



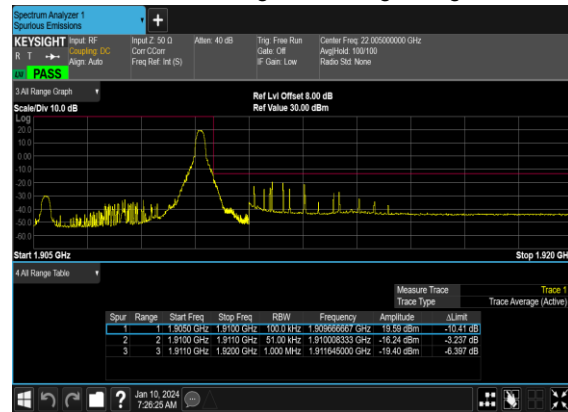
N2(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



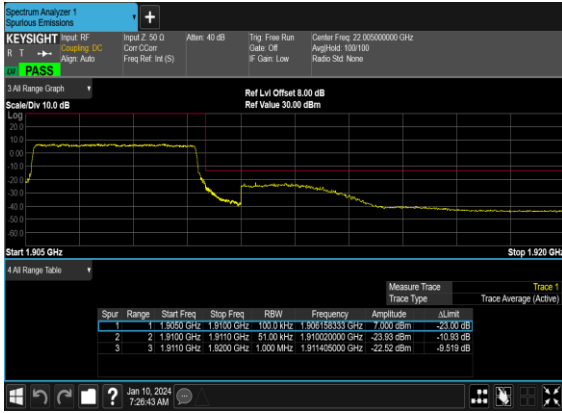
N2(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



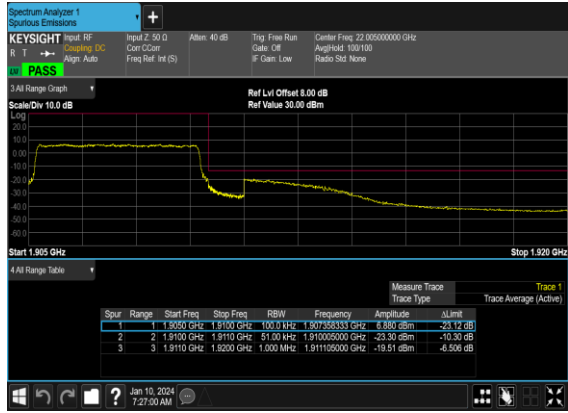
N2(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



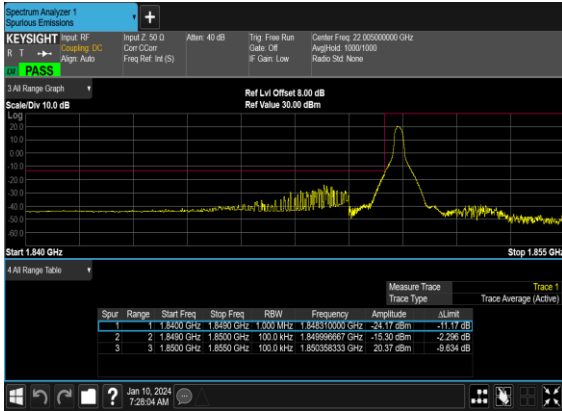
N2(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



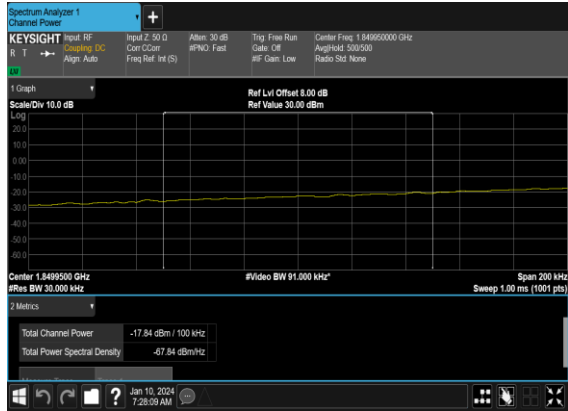
N2(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N2(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N2(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS



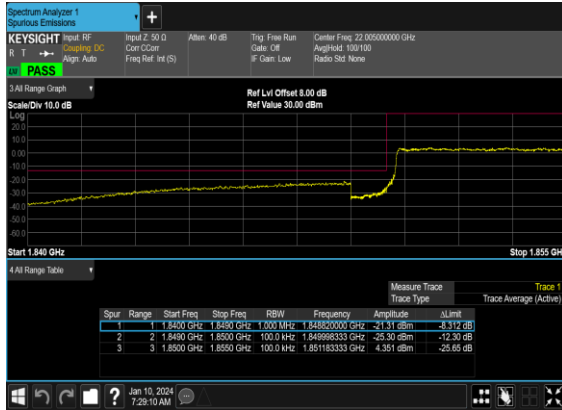
N2(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



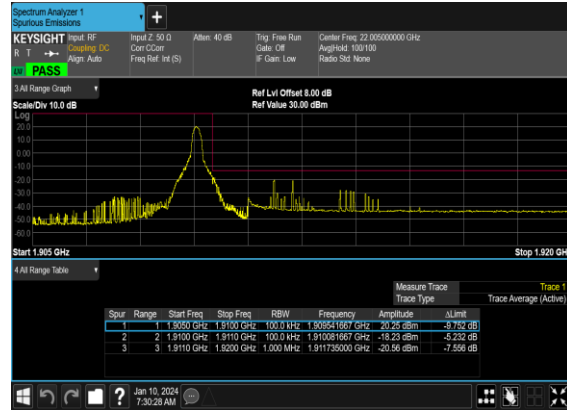
N2(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



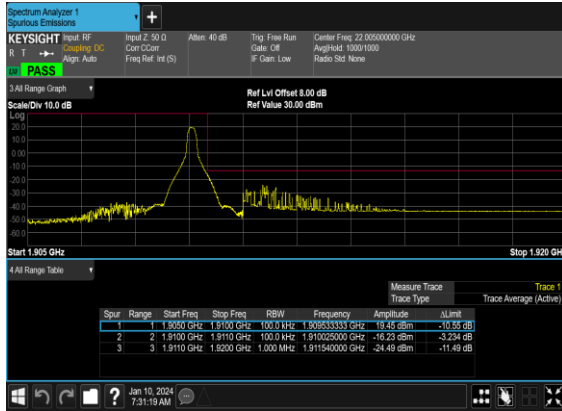
N2(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



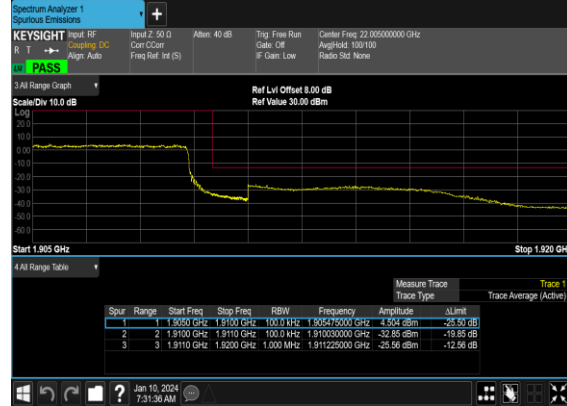
N2(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



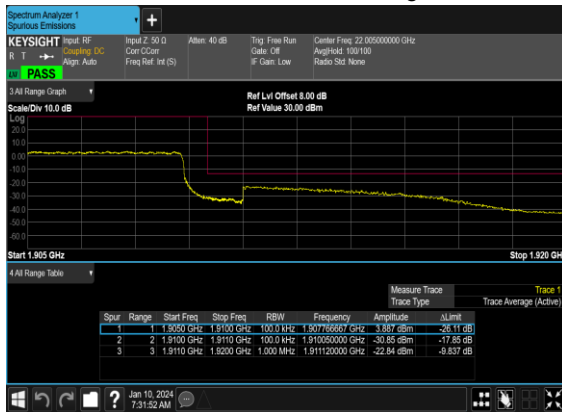
N2(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



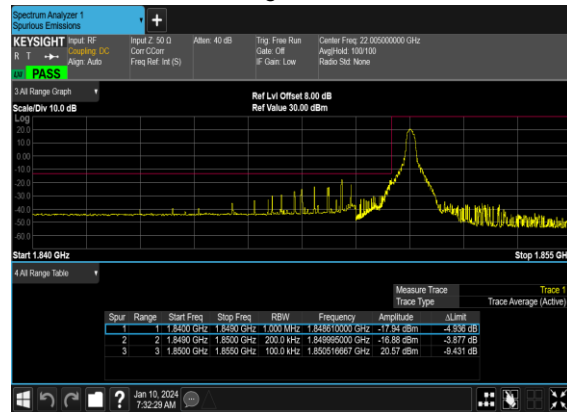
N2(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



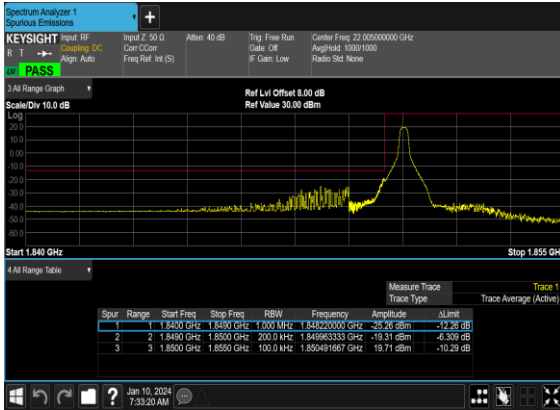
N2(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



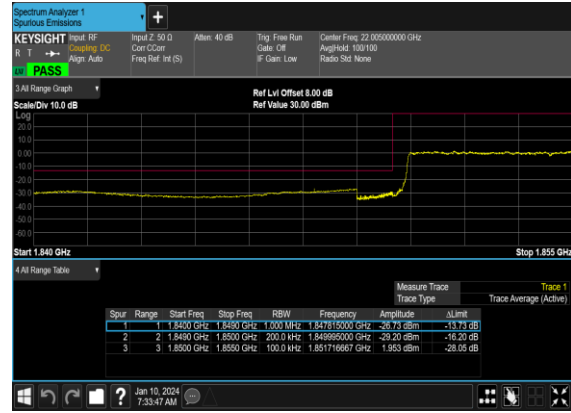
N2(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N2(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



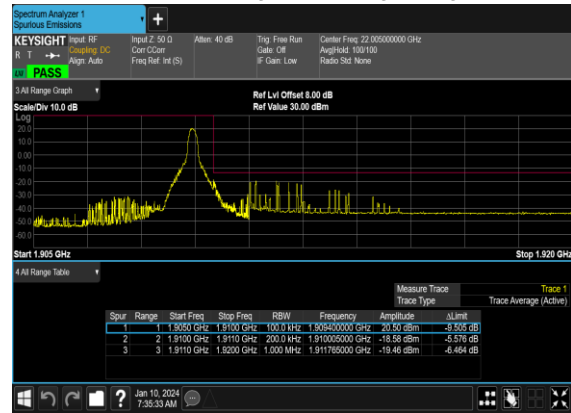
N2(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



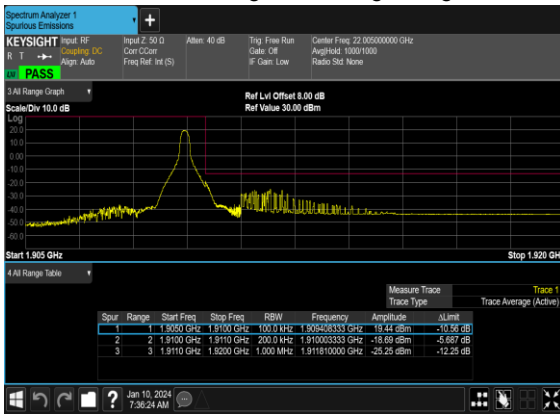
N2(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



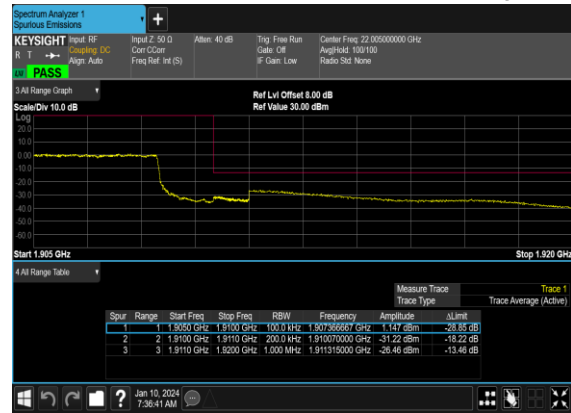
N2(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



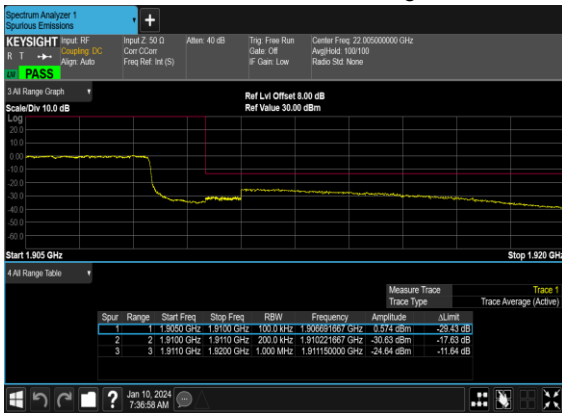
N2(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N2(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N2(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



Note: "CHP" means channel power integration method.

FR1 N5(ANT13)

Transmitter Conducted Output Power And ERP, ($G_T - L_C$)=-3.91dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP (dBm)	ERP (W)
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@1	24.14	18.08	0.0643
5	15	5	165300	826.5	DFT-s-OFDM 16 QAM	1@1	23.85	17.79	0.0601
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@1	24.07	18.01	0.0632
5	15	5	167300	836.5	DFT-s-OFDM 16 QAM	1@1	23.62	17.56	0.0570
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@1	23.77	17.71	0.0590
5	15	5	169300	846.5	DFT-s-OFDM 16 QAM	1@1	23.43	17.37	0.0546
5	15	10	165800	829	DFT-s-OFDM QPSK	1@1	24.05	17.99	0.0630
5	15	10	165800	829	DFT-s-OFDM 16 QAM	1@1	23.74	17.68	0.0586
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@1	24.08	18.02	0.0634
5	15	10	167300	836.5	DFT-s-OFDM 16 QAM	1@1	23.53	17.47	0.0558
5	15	10	168800	844	DFT-s-OFDM QPSK	1@1	23.82	17.76	0.0597
5	15	10	168800	844	DFT-s-OFDM 16 QAM	1@1	23.48	17.42	0.0552
5	15	15	166300	831.5	DFT-s-OFDM QPSK	1@1	24.22	18.16	0.0655
5	15	15	166300	831.5	DFT-s-OFDM 16 QAM	1@1	23.83	17.77	0.0598
5	15	15	167300	836.5	DFT-s-OFDM QPSK	1@1	24.08	18.02	0.0634
5	15	15	167300	836.5	DFT-s-OFDM 16 QAM	1@1	23.74	17.68	0.0586
5	15	15	168300	841.5	DFT-s-OFDM QPSK	1@1	24.01	17.95	0.0624
5	15	15	168300	841.5	DFT-s-OFDM 16 QAM	1@1	23.53	17.47	0.0558
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	50@25	24.06	18	0.0631
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@1	24.06	18	0.0631
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@104	23.6	17.54	0.0568
5	15	20	166800	834	DFT-s-OFDM QPSK	50@25	23.99	17.93	0.0621
5	15	20	166800	834	DFT-s-OFDM QPSK	1@1	24.18	18.12	0.0649
5	15	20	166800	834	DFT-s-OFDM QPSK	1@104	23.88	17.82	0.0605
5	15	20	166800	834	DFT-s-OFDM 16 QAM	50@25	23.45	17.39	0.0548
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@1	23.76	17.7	0.0589
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@104	23.34	17.28	0.0535
5	15	20	166800	834	DFT-s-OFDM 64 QAM	50@25	21.82	15.76	0.0377
5	15	20	166800	834	DFT-s-OFDM 64 QAM	1@1	22.08	16.02	0.0400

5	15	20	166800	834	DFT-s-OFDM 64 QAM	1@104	21.72	15.66	0.0368
5	15	20	166800	834	DFT-s-OFDM 256 QAM	50@25	19.81	13.75	0.0237
5	15	20	166800	834	DFT-s-OFDM 256 QAM	1@1	19.86	13.8	0.0240
5	15	20	166800	834	DFT-s-OFDM 256 QAM	1@104	19.54	13.48	0.0223
5	15	20	166800	834	CP-OFDM QPSK	53@26	22.6	16.54	0.0451
5	15	20	166800	834	CP-OFDM QPSK	1@1	22.74	16.68	0.0466
5	15	20	166800	834	CP-OFDM QPSK	1@104	22.26	16.2	0.0417
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	50@25	23.93	17.87	0.0612
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	24.06	18	0.0631
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@104	23.68	17.62	0.0578
5	15	20	167300	836.5	DFT-s-OFDM QPSK	50@25	24.03	17.97	0.0627
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@1	24.34	18.28	0.0673
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@104	23.8	17.74	0.0594
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	50@25	23.51	17.45	0.0556
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@1	23.76	17.7	0.0589
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@104	23.09	17.03	0.0505
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	50@25	21.75	15.69	0.0371
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@1	22.14	16.08	0.0406
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@104	21.69	15.63	0.0366
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	50@25	19.8	13.74	0.0237
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@1	19.92	13.86	0.0243
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@104	19.48	13.42	0.0220
5	15	20	167300	836.5	CP-OFDM QPSK	53@26	22.6	16.54	0.0451
5	15	20	167300	836.5	CP-OFDM QPSK	1@1	22.76	16.7	0.0468
5	15	20	167300	836.5	CP-OFDM QPSK	1@104	22.3	16.24	0.0421
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	50@25	23.98	17.92	0.0619
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@1	23.99	17.93	0.0621
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@104	23.49	17.43	0.0553
5	15	20	167800	839	DFT-s-OFDM QPSK	50@25	23.92	17.86	0.0611
5	15	20	167800	839	DFT-s-OFDM QPSK	1@1	24.01	17.95	0.0624
5	15	20	167800	839	DFT-s-OFDM QPSK	1@104	23.35	17.29	0.0536
5	15	20	167800	839	DFT-s-OFDM 16 QAM	50@25	23.41	17.35	0.0543
5	15	20	167800	839	DFT-s-OFDM 16 QAM	1@1	23.66	17.6	0.0575
5	15	20	167800	839	DFT-s-OFDM 16 QAM	1@104	22.56	16.5	0.0447
5	15	20	167800	839	DFT-s-OFDM 64 QAM	50@25	21.67	15.61	0.0364

5	15	20	167800	839	DFT-s-OFDM 64 QAM	1@1	22.02	15.96	0.0394
5	15	20	167800	839	DFT-s-OFDM 64 QAM	1@104	21.23	15.17	0.0329
5	15	20	167800	839	DFT-s-OFDM 256 QAM	50@25	19.79	13.73	0.0236
5	15	20	167800	839	DFT-s-OFDM 256 QAM	1@1	19.74	13.68	0.0233
5	15	20	167800	839	DFT-s-OFDM 256 QAM	1@104	19.44	13.38	0.0218
5	15	20	167800	839	CP-OFDM QPSK	53@26	22.41	16.35	0.0432
5	15	20	167800	839	CP-OFDM QPSK	1@1	22.57	16.51	0.0448
5	15	20	167800	839	CP-OFDM QPSK	1@104	22.09	16.03	0.0401

FR1 N7

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.13dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	23.15	23.02	0.2004
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.78	22.65	0.1841
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	23.35	23.22	0.2099
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.82	22.69	0.1858
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.41	23.28	0.2128
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.86	22.73	0.1875
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	23.21	23.08	0.2032
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	22.82	22.69	0.1858
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	23.33	23.2	0.2089
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.79	22.66	0.1845
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	23.23	23.1	0.2042
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.84	22.71	0.1866
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	23.34	23.21	0.2094
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.91	22.78	0.1897
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	23.4	23.27	0.2123
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.92	22.79	0.1901
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	23.41	23.28	0.2128
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.97	22.84	0.1923
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	23.13	23	0.1995
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	22.9	22.77	0.1892
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	23.28	23.15	0.2065
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.89	22.76	0.1888
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	23.4	23.27	0.2123
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	23.01	22.88	0.1941
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	23.44	23.31	0.2143
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	23.01	22.88	0.1941
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	23.43	23.3	0.2138
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.97	22.84	0.1923
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	23.44	23.31	0.2143

7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	22.97	22.84	0.1923
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	23.42	23.29	0.2133
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	22.88	22.75	0.1884
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	23.37	23.24	0.2109
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.91	22.78	0.1897
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	23.37	23.24	0.2109
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	22.92	22.79	0.1901
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	108@54	23.26	23.13	0.2056
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@1	23.16	23.03	0.2009
7	15	40	504000	2520	DFT-s-OFDM PI/2 BPSK	1@214	23.12	22.99	0.1991
7	15	40	504000	2520	DFT-s-OFDM QPSK	108@54	23.25	23.12	0.2051
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	23.52	23.39	0.2183
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@214	23.24	23.11	0.2046
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	108@54	22.65	22.52	0.1786
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	23.03	22.9	0.1950
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@214	22.87	22.74	0.1879
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	108@54	20.97	20.84	0.1213
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	1@1	21.09	20.96	0.1247
7	15	40	504000	2520	DFT-s-OFDM 64 QAM	1@214	21.08	20.95	0.1245
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	108@54	19.1	18.97	0.0789
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	1@1	18.87	18.74	0.0748
7	15	40	504000	2520	DFT-s-OFDM 256 QAM	1@214	18.94	18.81	0.0760
7	15	40	504000	2520	CP-OFDM QPSK	108@54	21.76	21.63	0.1455
7	15	40	504000	2520	CP-OFDM QPSK	1@1	21.81	21.68	0.1472
7	15	40	504000	2520	CP-OFDM QPSK	1@214	21.77	21.64	0.1459
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	108@54	23.27	23.14	0.2061
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.19	23.06	0.2023
7	15	40	507000	2535	DFT-s-OFDM PI/2 BPSK	1@214	23.12	22.99	0.1991
7	15	40	507000	2535	DFT-s-OFDM QPSK	108@54	23.12	22.99	0.1991
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	23.28	23.15	0.2065
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@214	23.46	23.33	0.2153
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	108@54	22.71	22.58	0.1811
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.88	22.75	0.1884
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@214	22.88	22.75	0.1884
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	108@54	21.02	20.89	0.1227

7	15	40	507000	2535	DFT-s-OFDM 64 QAM	1@1	21.11	20.98	0.1253
7	15	40	507000	2535	DFT-s-OFDM 64 QAM	1@214	21.09	20.96	0.1247
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	108@54	19.03	18.9	0.0776
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	1@1	18.94	18.81	0.0760
7	15	40	507000	2535	DFT-s-OFDM 256 QAM	1@214	19.02	18.89	0.0774
7	15	40	507000	2535	CP-OFDM QPSK	108@54	21.7	21.57	0.1435
7	15	40	507000	2535	CP-OFDM QPSK	1@1	21.67	21.54	0.1426
7	15	40	507000	2535	CP-OFDM QPSK	1@214	21.82	21.69	0.1476
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	108@54	23.28	23.15	0.2065
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@1	23.23	23.1	0.2042
7	15	40	510000	2550	DFT-s-OFDM PI/2 BPSK	1@214	23.23	23.1	0.2042
7	15	40	510000	2550	DFT-s-OFDM QPSK	108@54	23.27	23.14	0.2061
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	23.48	23.35	0.2163
7	15	40	510000	2550	DFT-s-OFDM QPSK	1@214	23.33	23.2	0.2089
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	108@54	22.69	22.56	0.1803
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	22.88	22.75	0.1884
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@214	22.83	22.7	0.1862
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	108@54	21.1	20.97	0.1250
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	1@1	21.2	21.07	0.1279
7	15	40	510000	2550	DFT-s-OFDM 64 QAM	1@214	21.28	21.15	0.1303
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	108@54	19.26	19.13	0.0818
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	1@1	18.89	18.76	0.0752
7	15	40	510000	2550	DFT-s-OFDM 256 QAM	1@214	19.12	18.99	0.0793
7	15	40	510000	2550	CP-OFDM QPSK	108@54	21.75	21.62	0.1452
7	15	40	510000	2550	CP-OFDM QPSK	1@1	21.77	21.64	0.1459
7	15	40	510000	2550	CP-OFDM QPSK	1@214	21.87	21.74	0.1493

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0062	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0034	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0022	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0038	PASS	-30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0067	PASS	-20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0022	PASS	-10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0031	PASS	0°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0065	PASS	10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0062	PASS	20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0067	PASS	30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0051	PASS	40°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0036	PASS	50°C

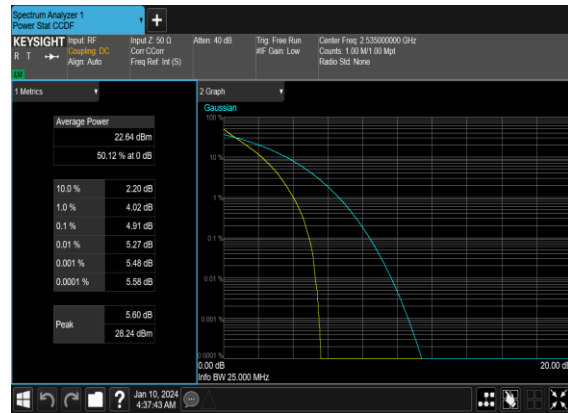
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	3.99	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	4.91	13	PASS

N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



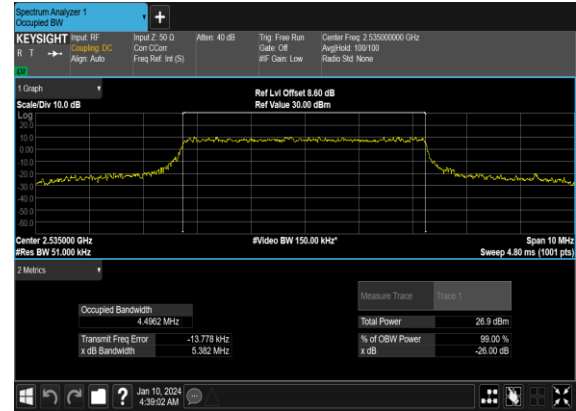
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4732	5.155
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4962	5.382
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4642	4.934
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4758	5.087
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2698	10.08
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.307	10.04
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2839	9.994
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.285	9.931
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.099	14.98
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.083	14.86
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.083	14.82
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.081	14.96
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.897	19.81
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.913	19.77
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.89	19.66
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.894	19.83
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.678	25.62
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.716	24.87
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.694	24.73
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.753	24.8
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.542	29.54
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.449	29.53
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.521	29.61
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.485	29.63
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.473	40.01
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.485	40.25
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.505	39.84
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.549	39.88

N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N7(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N7(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



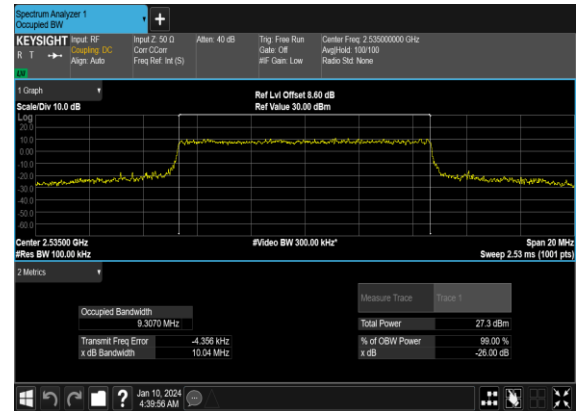
N7(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



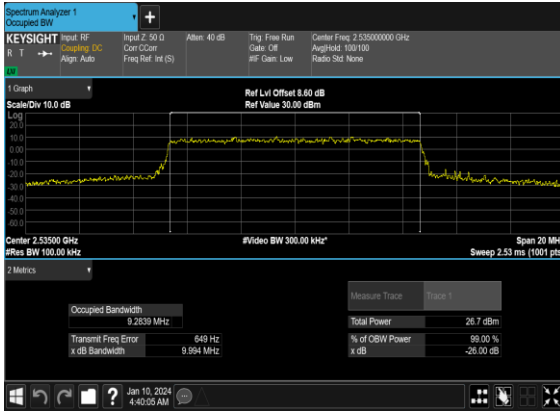
N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



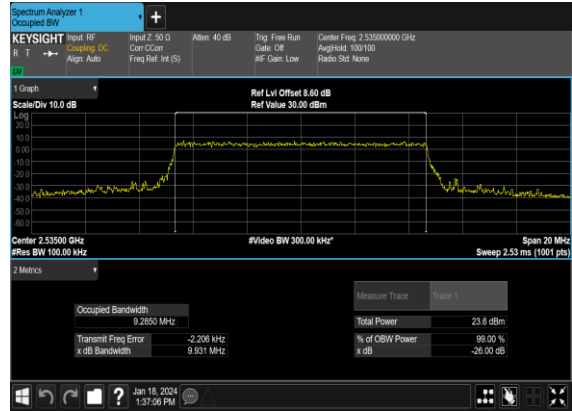
N7(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



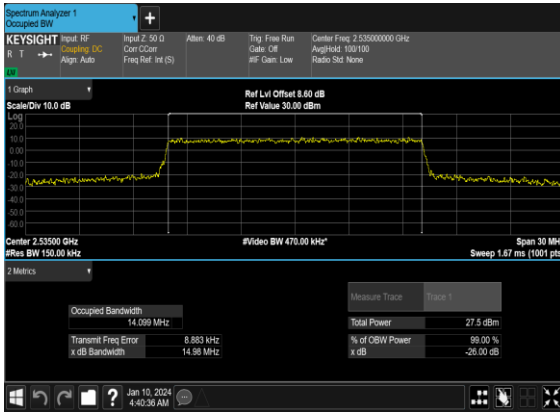
N7(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



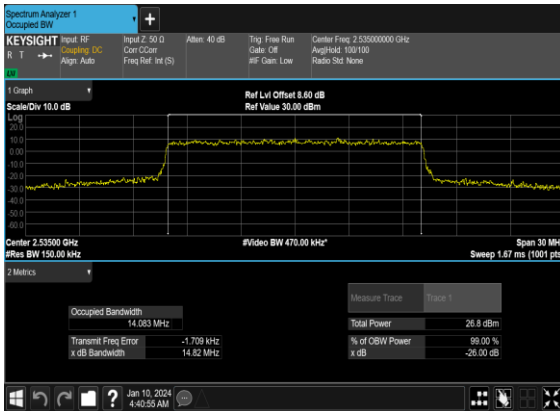
N7(15M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



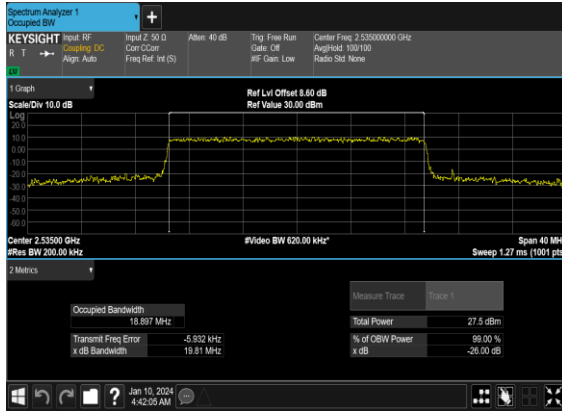
N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



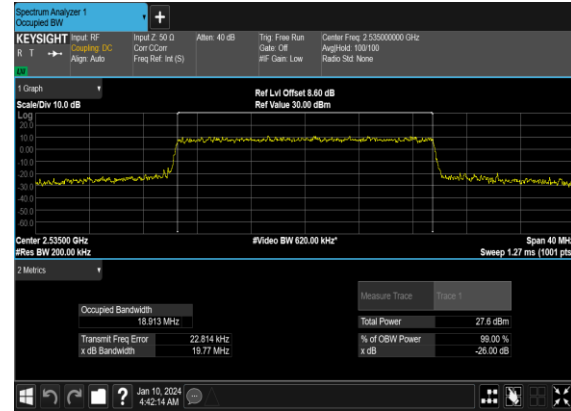
N7(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



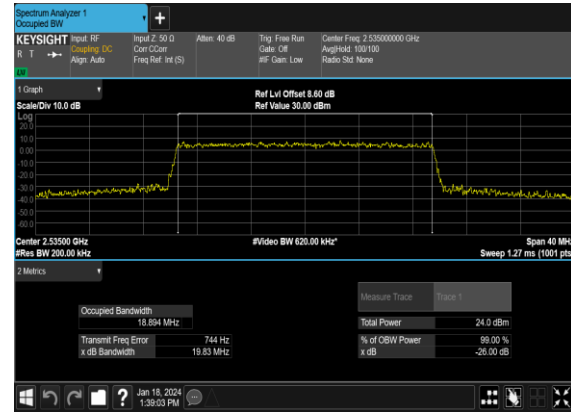
N7(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



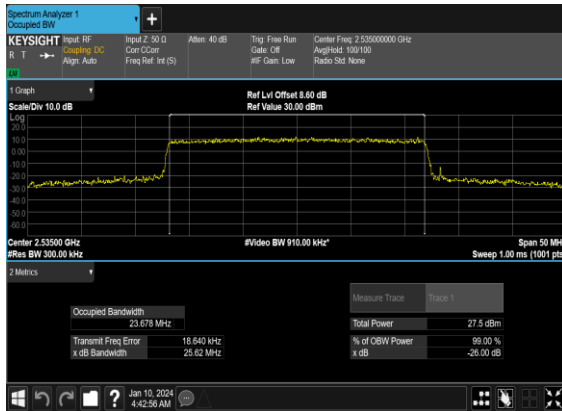
N7(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



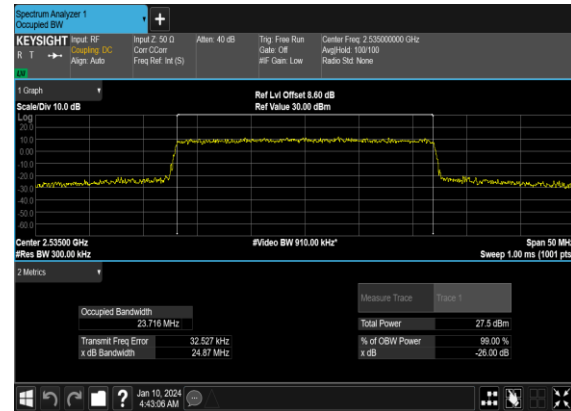
N7(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



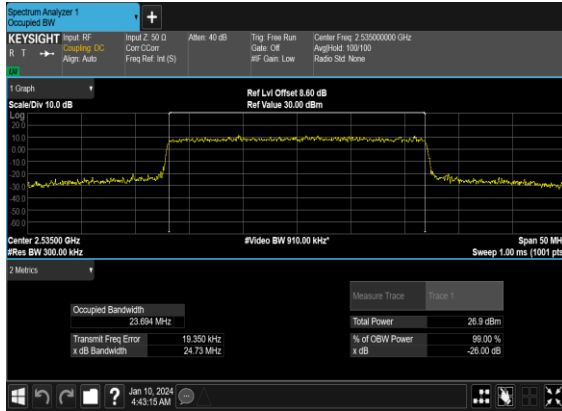
N7(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



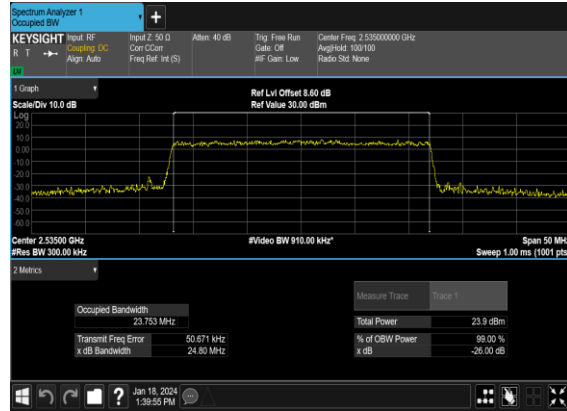
N7(25M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N7(30M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

