FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2201-3, XT2201-5
FCC ID	: IHDT56AB2
STANDARD	: 47 CFR Part 2, 22, 24, 27
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Dec. 02, 2021 ~ Jan. 01, 2022

We, Sporton International (Kunshan) Inc., 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.

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

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager

ACCREDITED Cert #5145.02

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG192317-01F	Rev. 01	Initial issue of report	Jan. 10, 2022

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 n26)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (5G NR n12, n71)	ERP < 3 Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (5G NR n25)	EIRP < 2Watt		
3.5	§24.232(d)	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(g)	Conducted Band Edge Measurement (5G NR n26) (5G NR n25) (5G NR n12, n71)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Spurious Emission (5G NR n26) (5G NR n25) (5G NR n12, n71)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g)	Radiated Spurious Emission (5G NR n26) (5G NR n25) (5G NR n12, n71)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 38.60 dB at 7488.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2201-3, XT2201-5
FCC ID	IHDT56AB2
IMEI Code	Conducted : 355386390008336 Radiation : 355386390007494
HW Version	DVT2
SW Version	SSH32.76
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n12: 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 824 MHz ~ 849 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n12 : 729 MHz ~ 746 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n26 : 869 MHz ~ 894 MHz 5G NR n71: 617 MHz ~ 652 MHz
SCS	15kHz
Bandwidth	n25, n26, n71: 5MHz / 10MHz / 15MHz / 20MHz n12: 5MHz / 10MHz / 15MHz
Antenna Gain	**Ant. 0:** n12: -3.0 dBi n25: -0.8 dBi n26: -3.6 dBi n71: -4.5 dBi **Ant. 1:** n25: -1.5 dBi n71: -6.2 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM

	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max Output power and antenna gain, only the maximum ERP/EIRP is shown in the report.
2. 5G NR Bands support SA(n25/n26/n71) and NSA(n12/n25/n71) mode. The whole testing has assessed SA mode for n26 and NSA mode for n12/n25/n71 by referring to the higher conducted power for conducted test items.
3. For NSA mode of all EN-DC combination, we only show the combination of the maximum power among all NSA combinations in the report.
4. 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 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola(Salom)	**Model Name**	MC-301
AC Adapter 2(US)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-301
Battery	**Brand Name**	Motorola(ATL)	**Model Name**	NA50
Earphone	**Brand Name**	Motorola (Lyand)	**Model Name**	MD211(SH38D20195)
USB Cable 1	**Brand Name**	Motorola(Saibao)	**Model Name**	SC18D13215
USB Cable 2	**Brand Name**	Motorola(Cabletech)	**Model Name**	SC18D13216
USB Cable 3	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18D13217
Type C to HDMI Cable /USBC Cable	**Brand Name**	Motorola(Linxee)	**Model Name**	SC18D02146
Stylus	**Brand Name**	Motorola smart stylus	**Model Name**	XT2201-S
Smart Folio	**Brand Name**	Motorola(Techson)	**Model Name**	SS68D36907,SS68D36906
Wireless Dongle	**Brand Name**	Motorola	**Model Name**	MD-02
HDMI Cable	**Brand Name**	Motorola	**Model Name**	HC-01
USB Cable(Type A/C)	**Brand Name**	Motorola	**Model Name**	SC18C24367

1.7 Maximum ERP/EIRP Power and Emission Designator

5G NR n12 (EN DC_2A-n12A)		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	0.0611	4M49G7D	0.0486	4M48W7D
10	704.0 ~ 711.0	0.0615	9M24G7D	0.0489	9M26W7D
15	706.5 ~ 708.5	0.0655	14M1G7D	0.0508	14M1W7D

5G NR n25 (EN DC_12A-n25A)		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 ~ 1912.5	0.1462	4M49G7D	0.1476	4M49W7D
10	1855.0 ~ 1910.0	0.1510	9M28G7D	0.1503	9M29W7D
15	1857.5 ~ 1907.5	0.1592	14M1G7D	0.1578	14M1W7D
20	1860.0 ~ 1905.0	0.1549	18M9G7D	0.1600	19M0W7D

5G NR n26		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0579	4M48G7D	0.0578	4M50W7D
10	829.0 ~ 844.0	0.0572	9M27G7D	0.0574	9M29W7D
15	831.5 ~ 841.5	0.0582	14M1G7D	0.0587	14M1W7D
20	834.0 ~ 839.0	0.0586	18M9G7D	0.0589	18M9W7D
CH1648000	824	0.0548	18M9G7D	0.0558	18M9W7D

5G NR n71 (EN DC_2A-n71A)		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	0.0462	4M47G7D	0.0463	4M51W7D
10	668.0 ~ 693.0	0.0468	9M26G7D	0.0462	9M27W7D
15	670.5 ~ 690.5	0.0481	14M0G7D	0.0480	14M1W7D
20	673.0 ~ 688.0	0.0483	18M9G7D	0.0475	18M9W7D

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

1.8 Testing Location

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS	CN1257	314309

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

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

1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.10 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 (Y 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.

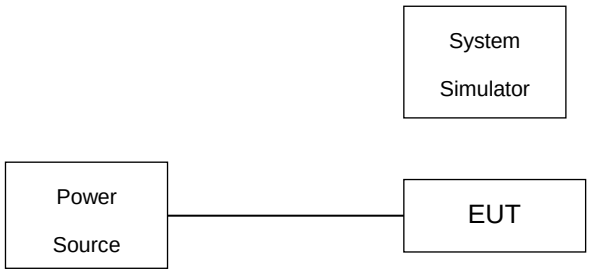
	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n12	v	v	v	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n25	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
	n71	v	v	v	v				v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n12			v	-	-	-	-	v	v				v	v	v	v	v
	n25				v				v	v				v	v	v	v	v
	n26				v	-	-	-	v	v				v	v	v	v	v
	n71				v				v	v				v	v	v	v	v
26dB and 99% Bandwidth	n12	v	v	v	-	-	-	-	v	v	v	v	v		v		v	
	n25	v	v	v	v				v	v	v	v	v		v		v	
	n26	v	v	v	v	-			v	v	v	v	v		v		v	
	n71	v	v	v	v				v	v	v	v	v		v		v	

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Conducted Band Edge	n12	v	v	v	-	-	-	-	v	v				v	v	v		v
	n25	v	v		v				v	v				v	v	v		v
	n26	v	v		v	-	-	-	v	v				v	v	v		v
	n71	v	v		v				v	v				v	v	v		v
Conducted Spurious Emission	n12	v	v	v	-	-	-	-	v	v				v		v	v	v
	n25	v	v		v				v	v				v		v	v	v
	n26	v	v		v	-	-	-	v	v				v		v	v	v
	n71	v	v		v				v	v				v		v	v	v
Frequency Stability	n12			v	-	-	-	-		v					v		v	
	n25				v					v					v		v	
	n26				v	-	-	-		v					v		v	
	n71				v					v					v		v	
E.R.P / E.I.R.P	n12	v	v	v	-	-	-		v	v	v	v	v	v	v	v	v	v
	n25	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
	n71	v	v	v	v				v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n12	Worst Case															v	
	n25	Worst Case															v	
	n26	Worst Case															v	
	n71	Worst Case															v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Based on engineering evaluation, only the worst modulation test results are shown in the report.																	

2.2 Connection Diagram of Test System

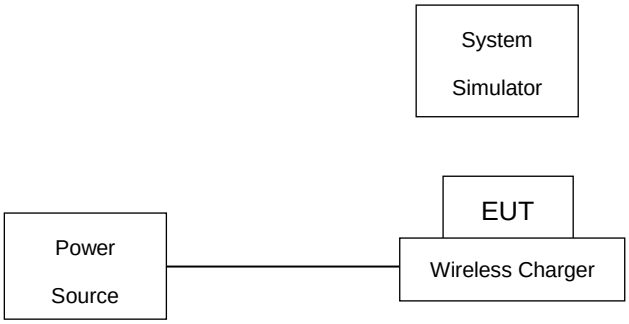
Adapter mode:



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

Wireless Charging mode:



This example is connection diagram of EUT test configurations.

For detail, please refer to test mode configuration and setup photographs for each test item.

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
4.	Wireless Charger	N/A	N/A	N/A	N/A	N/A

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 5.0 dB attenuator.

Example :

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

= 5.0 (dB)

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	147300	147500	147700
	Frequency	706.5	707.5	708.5
10	Channel	146800	147500	148200
	Frequency	704	707.5	711
5	Channel	146300	147500	148700
	Frequency	701.5	707.5	713.5

5G NR n25 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	388000	392500	397000
	Frequency	1860	1882.5	1905
15	Channel	387500	392500	397500
	Frequency	1857.5	1882.5	1907.5
10	Channel	387000	392500	398000
	Frequency	1855	1882.5	1910
5	Channel	386500	392500	398500
	Frequency	1852.5	1882.5	1912.5

5G NR n26 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	175800	176300	176800
	Frequency	834	836.5	839
15	Channel	175300	176300	177300
	Frequency	831.5	836.5	841.5
10	Channel	174800	176300	177800
	Frequency	829	836.5	844
5	Channel	174300	176300	178300
	Frequency	826.5	836.5	846.5

5G NR n71 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	125400	126900	128400
	Frequency	673	680.5	688
15	Channel	124900	126900	128900
	Frequency	670.5	680.5	690.5
10	Channel	124400	126900	129400
	Frequency	668	680.5	693
5	Channel	123900	126900	129900
	Frequency	665.5	680.5	695.5

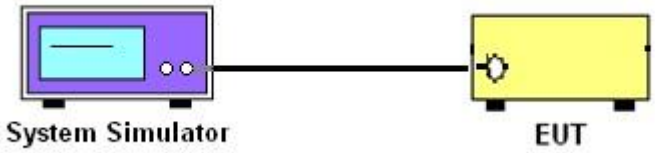
3 Conducted Test Items

3.1 Measuring Instruments

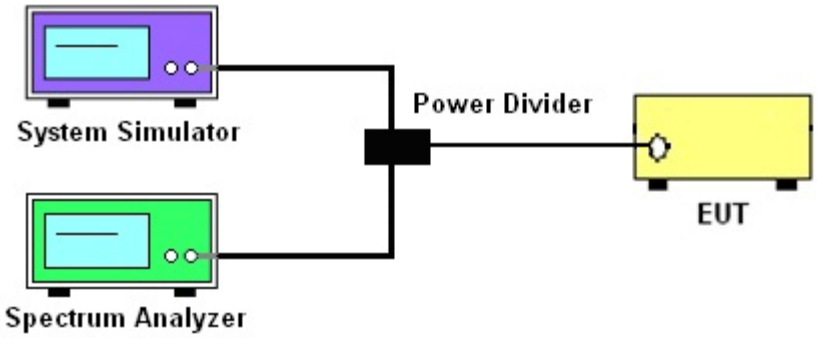
See list of measuring instruments of this test report.

3.2 Test Setup

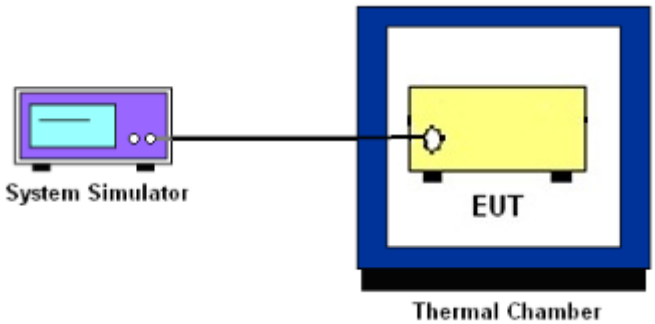
3.2.1 Conducted Output Power



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 7 Watts for 5G NR n26.

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

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n25.

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[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[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 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(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 >= 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 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{th} 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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

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 ±0.00025% (±2.5ppm) 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±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.

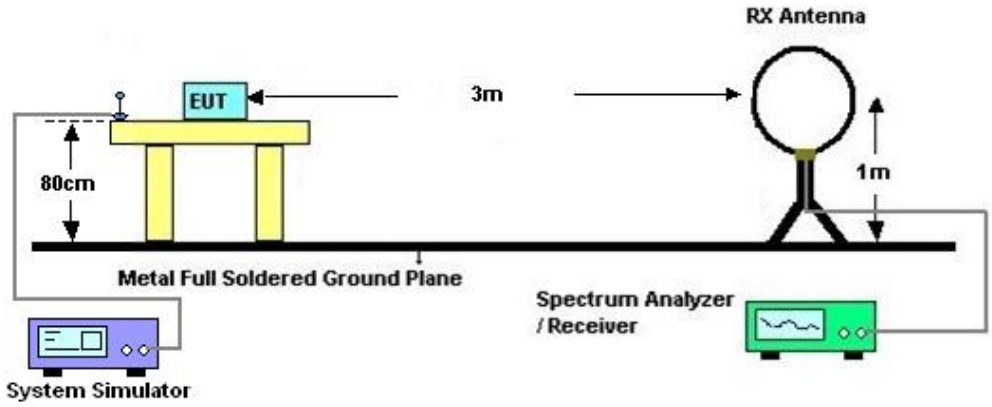
4 Radiated Test Items

4.1 Measuring Instruments

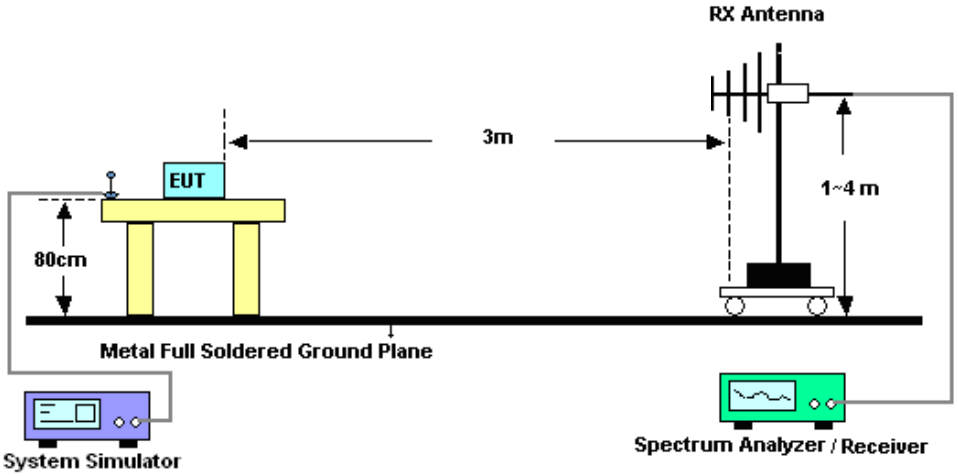
See list of measuring instruments of this test report.

4.2 Test Setup

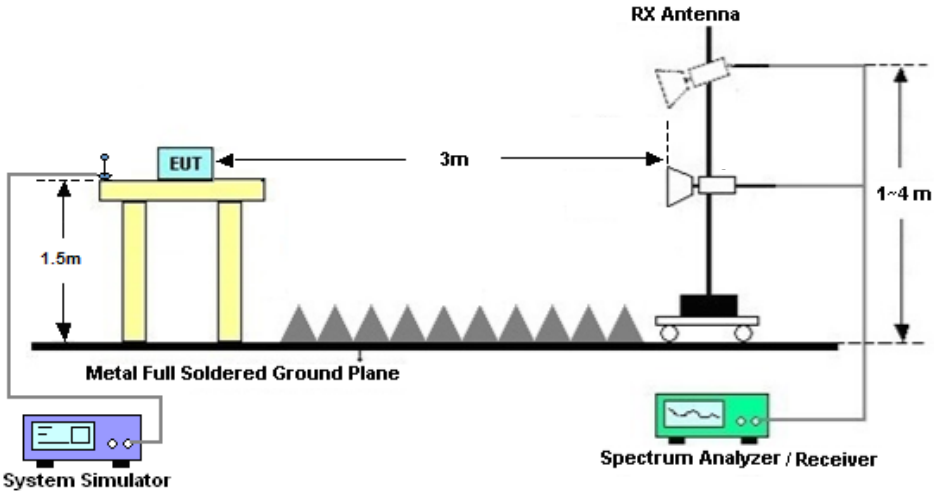
4.2.1 For radiated test below 30MHz



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.

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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

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. 08, 2021	Dec. 02, 2021~ Dec. 28, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Dec. 02, 2021~ Dec. 28, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021		Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Dec. 02, 2021~ Dec. 28, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Jan. 01, 2022	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jan. 01, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Jan. 01, 2022	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Jan. 01, 2022	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Jan. 01, 2022	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Jan. 01, 2022	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Jan. 01, 2022	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jan. 01, 2022	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Jan. 01, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 01, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 01, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 01, 2022	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.3dB**

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

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

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

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

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	**Temperature :**	21~23℃
		Relative Humidity :	45~51%

Software Version: 21.02.120201

FR1 N12 (ANT0)

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -3.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	5	146300	701.5	DFT-s-OFDM PI/2 BPSK	12@6	23	17.85	0.0610
12	15	5	146300	701.5	DFT-s-OFDM PI/2 BPSK	1@1	23.01	17.86	0.0611
12	15	5	146300	701.5	DFT-s-OFDM PI/2 BPSK	1@23	22.92	17.77	0.0598
12	15	5	146300	701.5	DFT-s-OFDM QPSK	12@6	22.95	17.8	0.0603
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@1	22.98	17.83	0.0607
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@23	22.93	17.78	0.0600
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	12@6	22.02	16.87	0.0486
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	1@1	21.98	16.83	0.0482
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	1@23	21.93	16.78	0.0476
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	12@6	20.52	15.37	0.0344
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	1@1	20.65	15.5	0.0355
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	1@23	20.67	15.52	0.0356
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	12@6	18.41	13.26	0.0212
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	1@1	17.92	12.77	0.0189
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	1@23	17.93	12.78	0.0190
12	15	5	146300	701.5	CP-OFDM QPSK	13@6	21.39	16.24	0.0421
12	15	5	146300	701.5	CP-OFDM QPSK	1@1	21.47	16.32	0.0429
12	15	5	146300	701.5	CP-OFDM QPSK	1@23	21.48	16.33	0.0430
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	12@6	23	17.85	0.0610
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	22.91	17.76	0.0597
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@23	22.84	17.69	0.0587
12	15	5	147500	707.5	DFT-s-OFDM QPSK	12@6	22.92	17.77	0.0598
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@1	22.93	17.78	0.0600
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@23	22.93	17.78	0.0600
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	12@6	21.98	16.83	0.0482
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	1@1	21.95	16.8	0.0479
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	1@23	21.97	16.82	0.0481

12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	12@6	20.45	15.3	0.0339
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	1@1	20.6	15.45	0.0351
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	1@23	20.51	15.36	0.0344
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	12@6	18.4	13.25	0.0211
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	1@1	17.89	12.74	0.0188
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	1@23	17.77	12.62	0.0183
12	15	5	147500	707.5	CP-OFDM QPSK	13@6	21.37	16.22	0.0419
12	15	5	147500	707.5	CP-OFDM QPSK	1@1	21.46	16.31	0.0428
12	15	5	147500	707.5	CP-OFDM QPSK	1@23	21.37	16.22	0.0419
12	15	5	148700	713.5	DFT-s-OFDM PI/2 BPSK	12@6	22.86	17.71	0.0590
12	15	5	148700	713.5	DFT-s-OFDM PI/2 BPSK	1@1	22.91	17.76	0.0597
12	15	5	148700	713.5	DFT-s-OFDM PI/2 BPSK	1@23	22.77	17.62	0.0578
12	15	5	148700	713.5	DFT-s-OFDM QPSK	12@6	22.78	17.63	0.0579
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@1	22.81	17.66	0.0583
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@23	22.76	17.61	0.0577
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	12@6	21.84	16.69	0.0467
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	1@1	21.83	16.68	0.0466
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	1@23	21.76	16.61	0.0458
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	12@6	20.39	15.24	0.0334
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	1@1	20.46	15.31	0.0340
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	1@23	20.53	15.38	0.0345
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	12@6	18.31	13.16	0.0207
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	1@1	17.83	12.68	0.0185
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	1@23	17.82	12.67	0.0185
12	15	5	148700	713.5	CP-OFDM QPSK	13@6	21.32	16.17	0.0414
12	15	5	148700	713.5	CP-OFDM QPSK	1@1	21.4	16.25	0.0422
12	15	5	148700	713.5	CP-OFDM QPSK	1@23	21.38	16.23	0.0420
12	15	10	146800	704	DFT-s-OFDM PI/2 BPSK	25@12	22.94	17.79	0.0601
12	15	10	146800	704	DFT-s-OFDM PI/2 BPSK	1@1	23.02	17.87	0.0612
12	15	10	146800	704	DFT-s-OFDM PI/2 BPSK	1@50	22.92	17.77	0.0598
12	15	10	146800	704	DFT-s-OFDM QPSK	25@12	22.94	17.79	0.0601
12	15	10	146800	704	DFT-s-OFDM QPSK	1@1	23.01	17.86	0.0611
12	15	10	146800	704	DFT-s-OFDM QPSK	1@50	22.86	17.71	0.0590
12	15	10	146800	704	DFT-s-OFDM 16 QAM	25@12	22.03	16.88	0.0488

12	15	10	146800	704	DFT-s-OFDM 16 QAM	1@1	22.02	16.87	0.0486
12	15	10	146800	704	DFT-s-OFDM 16 QAM	1@50	21.91	16.76	0.0474
12	15	10	146800	704	DFT-s-OFDM 64 QAM	25@12	20.48	15.33	0.0341
12	15	10	146800	704	DFT-s-OFDM 64 QAM	1@1	20.69	15.54	0.0358
12	15	10	146800	704	DFT-s-OFDM 64 QAM	1@50	20.59	15.44	0.0350
12	15	10	146800	704	DFT-s-OFDM 256 QAM	25@12	18.41	13.26	0.0212
12	15	10	146800	704	DFT-s-OFDM 256 QAM	1@1	17.9	12.75	0.0188
12	15	10	146800	704	DFT-s-OFDM 256 QAM	1@50	17.87	12.72	0.0187
12	15	10	146800	704	CP-OFDM QPSK	26@13	21.44	16.29	0.0426
12	15	10	146800	704	CP-OFDM QPSK	1@1	21.5	16.35	0.0432
12	15	10	146800	704	CP-OFDM QPSK	1@50	21.43	16.28	0.0425
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	25@12	22.92	17.77	0.0598
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.02	17.87	0.0612
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@50	22.83	17.68	0.0586
12	15	10	147500	707.5	DFT-s-OFDM QPSK	25@12	22.93	17.78	0.0600
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@1	23.04	17.89	0.0615
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@50	22.85	17.7	0.0589
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	25@12	22.01	16.86	0.0485
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	1@1	22.04	16.89	0.0489
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	1@50	21.85	16.7	0.0468
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	25@12	20.49	15.34	0.0342
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	1@1	20.69	15.54	0.0358
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	1@50	20.49	15.34	0.0342
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	25@12	18.4	13.25	0.0211
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	1@1	17.93	12.78	0.0190
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	1@50	17.86	12.71	0.0187
12	15	10	147500	707.5	CP-OFDM QPSK	26@13	21.41	16.26	0.0423
12	15	10	147500	707.5	CP-OFDM QPSK	1@1	21.56	16.41	0.0438
12	15	10	147500	707.5	CP-OFDM QPSK	1@50	21.36	16.21	0.0418
12	15	10	148200	711	DFT-s-OFDM PI/2 BPSK	25@12	22.98	17.83	0.0607
12	15	10	148200	711	DFT-s-OFDM PI/2 BPSK	1@1	22.95	17.8	0.0603
12	15	10	148200	711	DFT-s-OFDM PI/2 BPSK	1@50	22.78	17.63	0.0579
12	15	10	148200	711	DFT-s-OFDM QPSK	25@12	22.86	17.71	0.0590
12	15	10	148200	711	DFT-s-OFDM QPSK	1@1	22.99	17.84	0.0608

12	15	10	148200	711	DFT-s-OFDM QPSK	1@50	22.78	17.63	0.0579
12	15	10	148200	711	DFT-s-OFDM 16 QAM	25@12	21.9	16.75	0.0473
12	15	10	148200	711	DFT-s-OFDM 16 QAM	1@1	21.98	16.83	0.0482
12	15	10	148200	711	DFT-s-OFDM 16 QAM	1@50	21.79	16.64	0.0461
12	15	10	148200	711	DFT-s-OFDM 64 QAM	25@12	20.38	15.23	0.0333
12	15	10	148200	711	DFT-s-OFDM 64 QAM	1@1	20.63	15.48	0.0353
12	15	10	148200	711	DFT-s-OFDM 64 QAM	1@50	20.47	15.32	0.0340
12	15	10	148200	711	DFT-s-OFDM 256 QAM	25@12	18.31	13.16	0.0207
12	15	10	148200	711	DFT-s-OFDM 256 QAM	1@1	17.81	12.66	0.0185
12	15	10	148200	711	DFT-s-OFDM 256 QAM	1@50	17.78	12.63	0.0183
12	15	10	148200	711	CP-OFDM QPSK	26@13	21.35	16.2	0.0417
12	15	10	148200	711	CP-OFDM QPSK	1@1	21.47	16.32	0.0429
12	15	10	148200	711	CP-OFDM QPSK	1@50	21.34	16.19	0.0416
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	36@18	23.2	18.05	0.0638
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	1@1	23.21	18.06	0.0640
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	1@77	23.04	17.89	0.0615
12	15	15	147300	706.5	DFT-s-OFDM QPSK	36@18	23.11	17.96	0.0625
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@1	23.2	18.05	0.0638
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@77	23.09	17.94	0.0622
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	36@18	22.09	16.94	0.0494
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	1@1	22.16	17.01	0.0502
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	1@77	22.05	16.9	0.0490
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	36@18	20.6	15.45	0.0351
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	1@1	20.89	15.74	0.0375
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	1@77	20.74	15.59	0.0362
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	36@18	18.53	13.38	0.0218
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	1@1	18.22	13.07	0.0203
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	1@77	18.04	12.89	0.0195
12	15	15	147300	706.5	CP-OFDM QPSK	39@19	21.55	16.4	0.0437
12	15	15	147300	706.5	CP-OFDM QPSK	1@1	21.73	16.58	0.0455
12	15	15	147300	706.5	CP-OFDM QPSK	1@77	21.41	16.26	0.0423
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	36@18	23.19	18.04	0.0637
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@1	23.18	18.03	0.0635
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@77	23.05	17.9	0.0617

12	15	15	147500	707.5	DFT-s-OFDM QPSK	36@18	23.09	17.94	0.0622
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@1	23.2	18.05	0.0638
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@77	23.04	17.89	0.0615
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	36@18	22.08	16.93	0.0493
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	1@1	22.21	17.06	0.0508
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	1@77	22.06	16.91	0.0491
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	36@18	20.66	15.51	0.0356
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	1@1	20.85	15.7	0.0372
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	1@77	20.73	15.58	0.0361
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	36@18	18.58	13.43	0.0220
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	1@1	18.17	13.02	0.0200
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	1@77	18.01	12.86	0.0193
12	15	15	147500	707.5	CP-OFDM QPSK	39@19	21.66	16.51	0.0448
12	15	15	147500	707.5	CP-OFDM QPSK	1@1	21.68	16.53	0.0450
12	15	15	147500	707.5	CP-OFDM QPSK	1@77	21.45	16.3	0.0427
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	36@18	23.31	18.16	0.0655
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	1@1	23.15	18	0.0631
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	1@77	22.99	17.84	0.0608
12	15	15	147700	708.5	DFT-s-OFDM QPSK	36@18	23.2	18.05	0.0638
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@1	23.17	18.02	0.0634
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@77	23.06	17.91	0.0618
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	36@18	22.17	17.02	0.0504
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	1@1	22.15	17	0.0501
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	1@77	21.96	16.81	0.0480
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	36@18	20.68	15.53	0.0357
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	1@1	20.9	15.75	0.0376
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	1@77	20.72	15.57	0.0361
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	36@18	18.56	13.41	0.0219
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	1@1	18.15	13	0.0200
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	1@77	18.01	12.86	0.0193
12	15	15	147700	708.5	CP-OFDM QPSK	39@19	21.66	16.51	0.0448
12	15	15	147700	708.5	CP-OFDM QPSK	1@1	21.69	16.54	0.0451
12	15	15	147700	708.5	CP-OFDM QPSK	1@77	21.39	16.24	0.0421

Frequency Stability

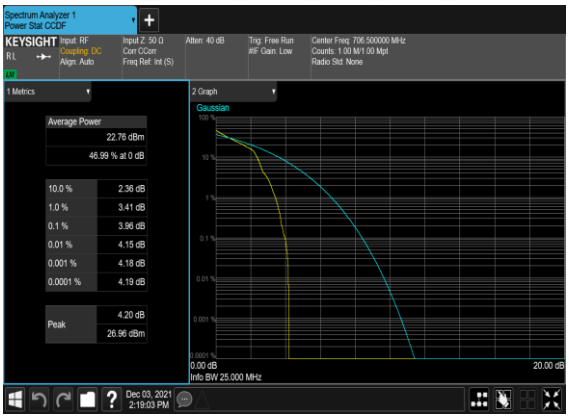
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.01329	**PASS**	NV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00699	**PASS**	LV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.0028	**PASS**	HV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00258	**PASS**	-30℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00362	**PASS**	-20℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00433	**PASS**	-10℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.0024	**PASS**	0℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00415	**PASS**	10℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00536	**PASS**	20℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00569	**PASS**	30℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00477	**PASS**	40℃
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00298	**PASS**	50℃

Peak to Average Radio

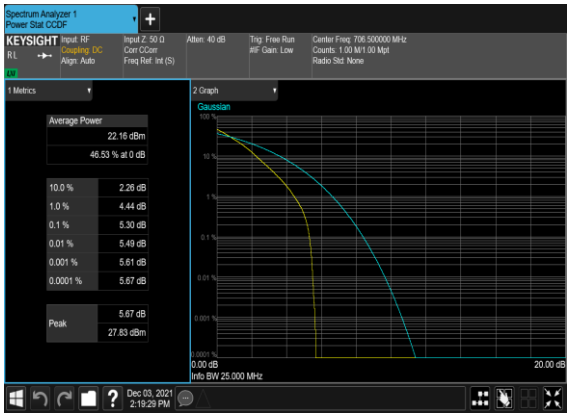
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	75@0	4.36	13	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM PI/2 BPSK	1@0	3.96	13	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	75@0	5.3	13	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	5.04	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	75@0	4.24	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	1@0	3.95	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	5.12	13	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	5.09	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	75@0	4.16	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM PI/2 BPSK	1@0	3.93	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	75@0	5.05	13	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	5.0	13	**PASS**

B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH

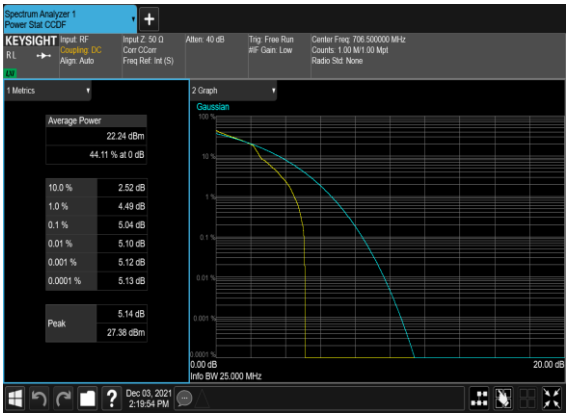
B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



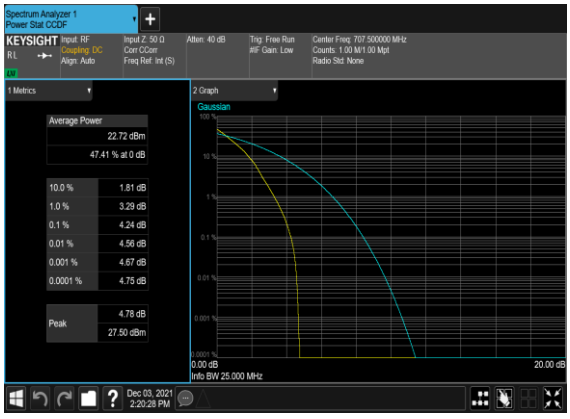
B2_N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



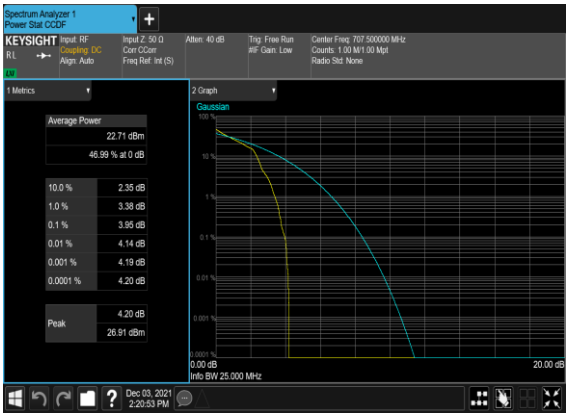
B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

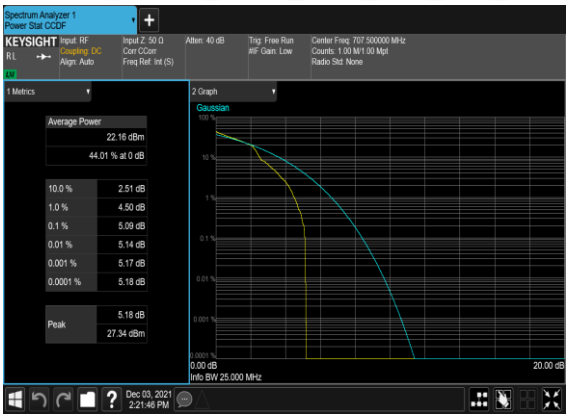


B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

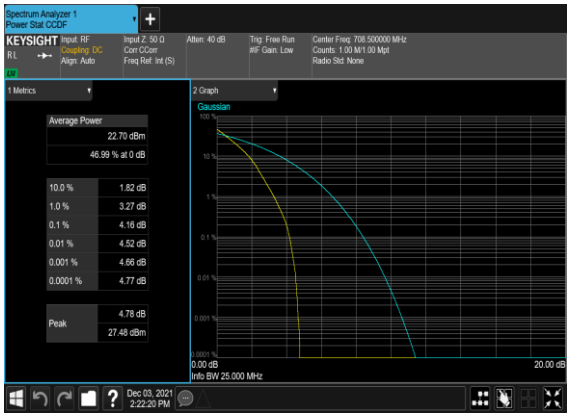


B2_N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

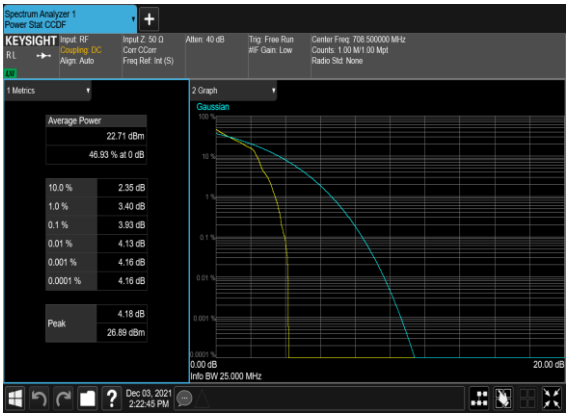
B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



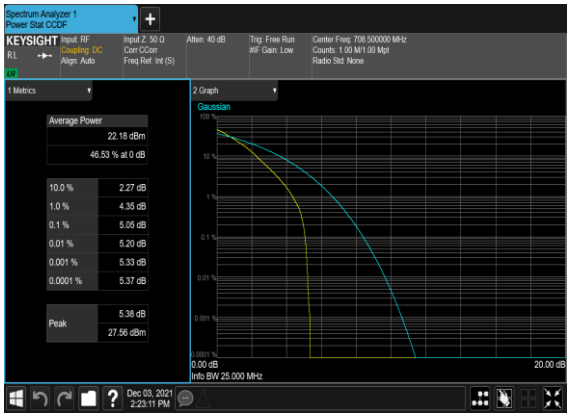
B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



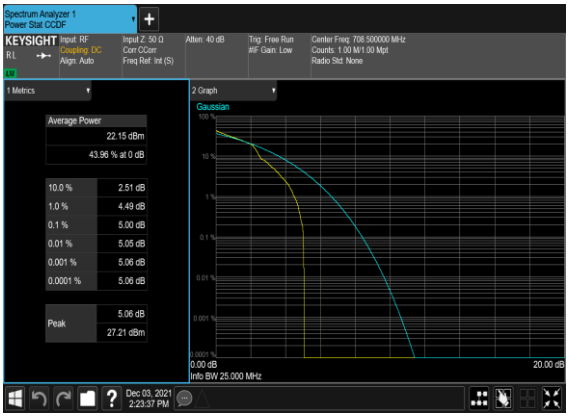
B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B2_N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



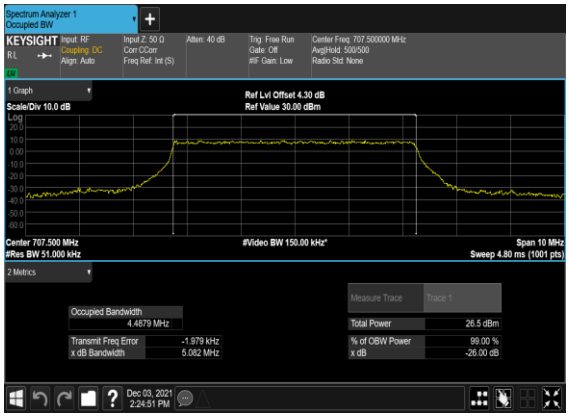
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
12	15	5	147500	707.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4654	5.062
12	15	5	147500	707.5	DFT-s-OFDM QPSK	25@0	4.467	4.929
12	15	5	147500	707.5	CP-OFDM QPSK	25@0	4.4879	5.082
12	15	5	147500	707.5	CP-OFDM 16 QAM	25@0	4.4776	5.102
12	15	5	147500	707.5	CP-OFDM 64 QAM	25@0	4.4803	5.12
12	15	5	147500	707.5	CP-OFDM 256 QAM	25@0	4.4718	5.118
12	15	10	147500	707.5	DFT-s-OFDM PI/2 BPSK	50@0	8.8544	9.492
12	15	10	147500	707.5	DFT-s-OFDM QPSK	50@0	8.8751	9.608
12	15	10	147500	707.5	CP-OFDM QPSK	52@0	9.2445	9.963
12	15	10	147500	707.5	CP-OFDM 16 QAM	52@0	9.2449	9.939
12	15	10	147500	707.5	CP-OFDM 64 QAM	52@0	9.2428	9.939
12	15	10	147500	707.5	CP-OFDM 256 QAM	52@0	9.2631	9.989
12	15	15	147500	707.5	DFT-s-OFDM PI/2 BPSK	75@0	13.34	14.09
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	13.346	14.24
12	15	15	147500	707.5	CP-OFDM QPSK	79@0	14.053	14.92
12	15	15	147500	707.5	CP-OFDM 16 QAM	79@0	14.074	14.89
12	15	15	147500	707.5	CP-OFDM 64 QAM	79@0	14.083	14.93
12	15	15	147500	707.5	CP-OFDM 256 QAM	79@0	14.05	14.95

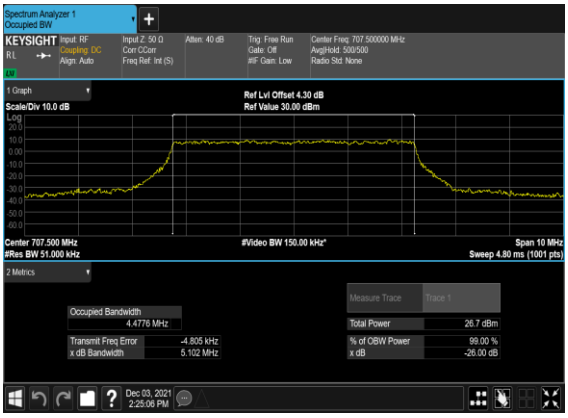
B2_N12(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

B2_N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

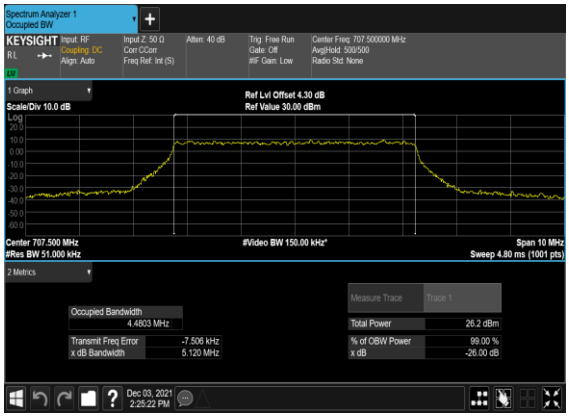
B2_N12(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



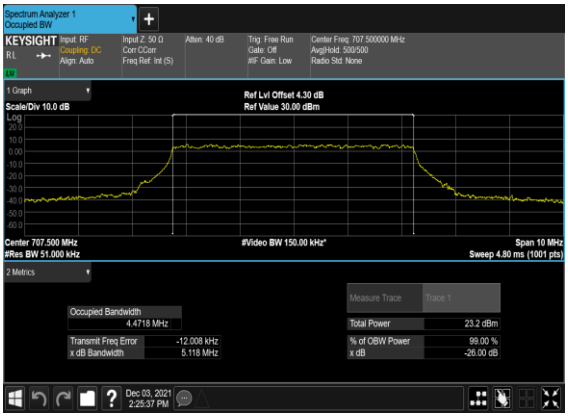
B2_N12(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



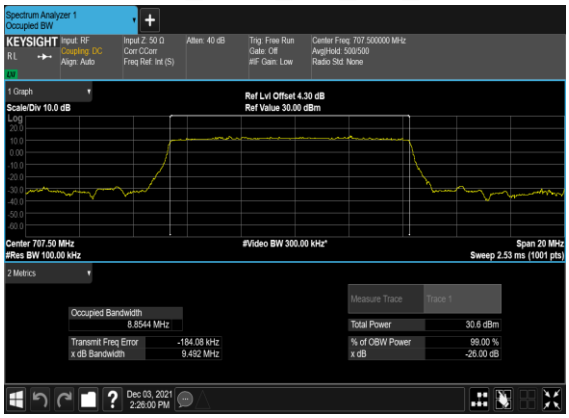
B2_N12(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B2_N12(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

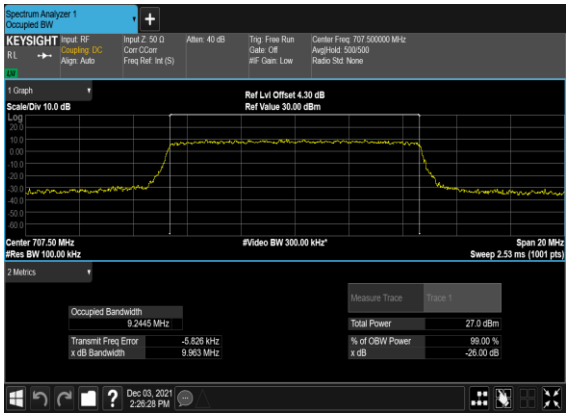


B2_N12(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



B2_N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B2_N12(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

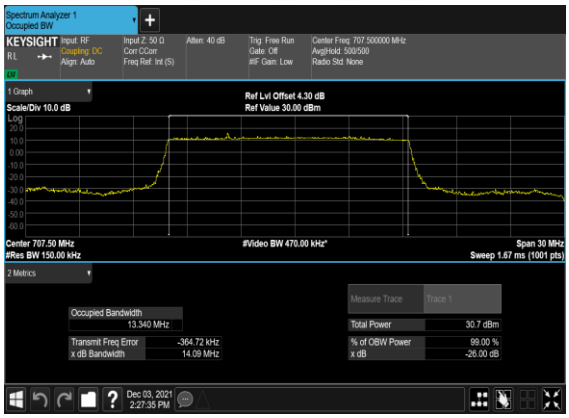


B2_N12(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

B2_N12(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B2_N12(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

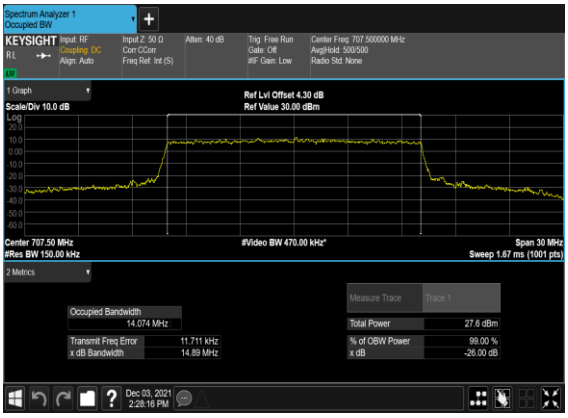
B2_N12(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



B2_N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B2_N12(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B2_N12(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B2_N12(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

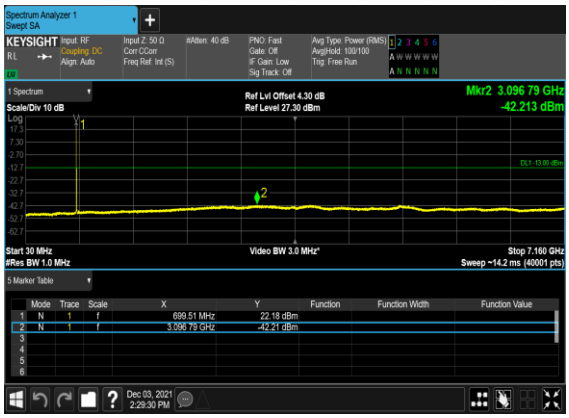
B2_N12(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

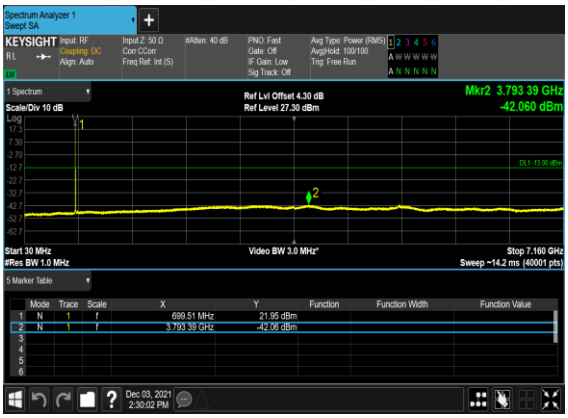
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	146300	701.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	5	146300	701.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	5	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	5	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	10	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**

12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	15	147500	707.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

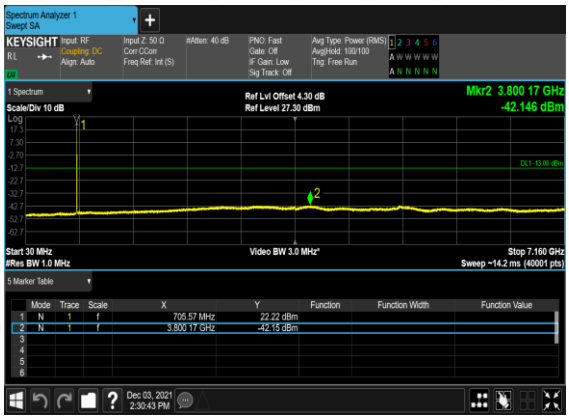
B2_N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



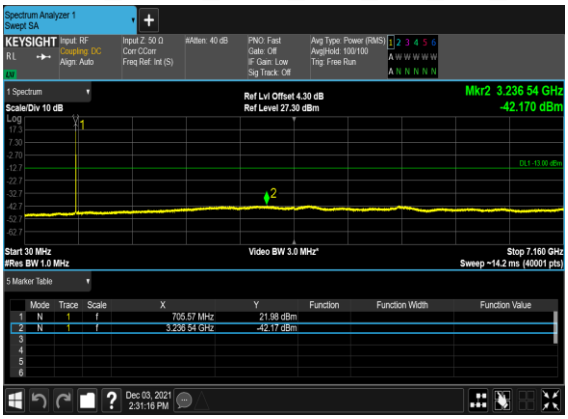
B2_N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



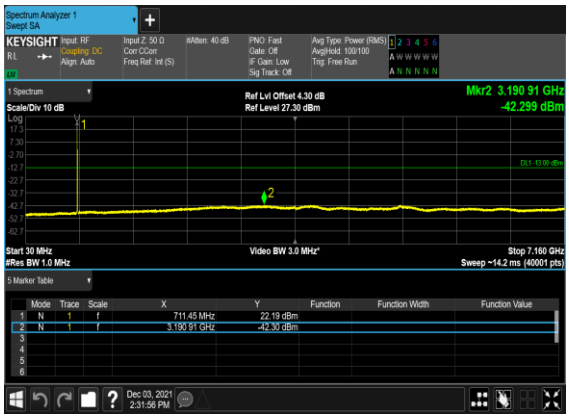
B2_N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



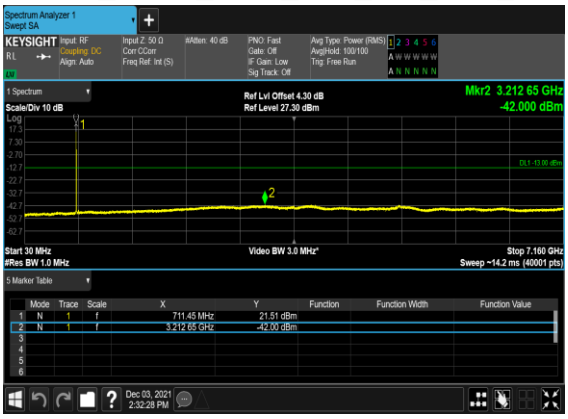
B2_N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



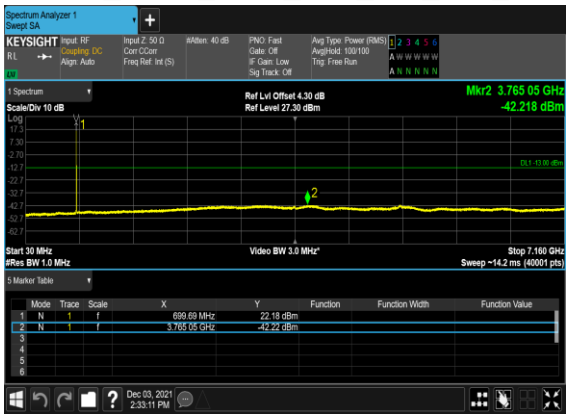
B2_N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



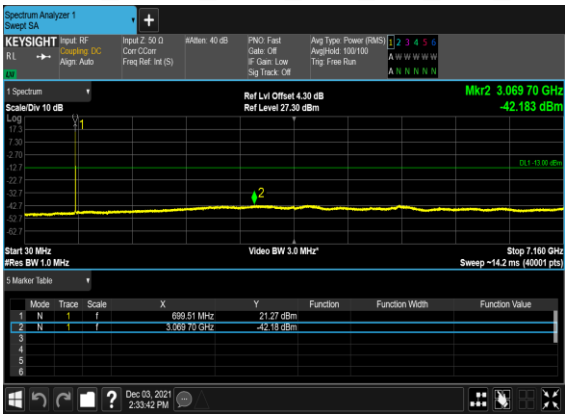
B2_N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



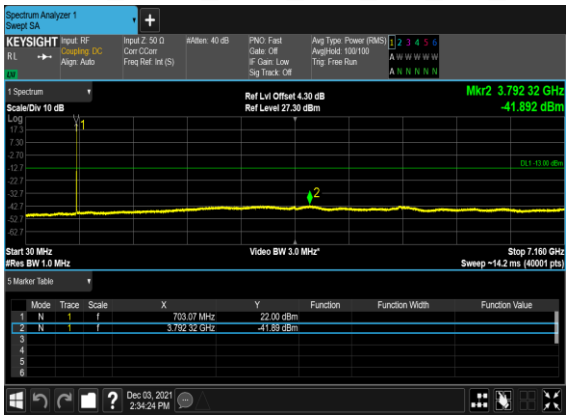
B2_N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



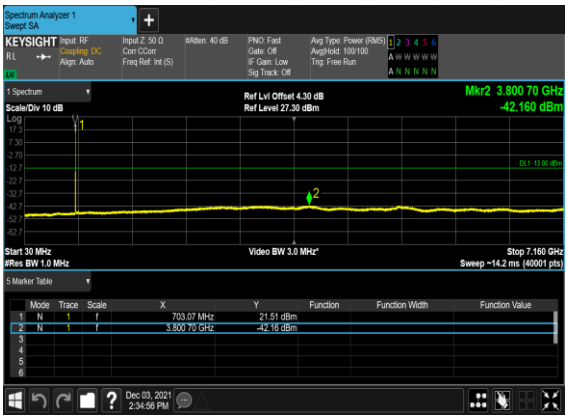
B2_N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



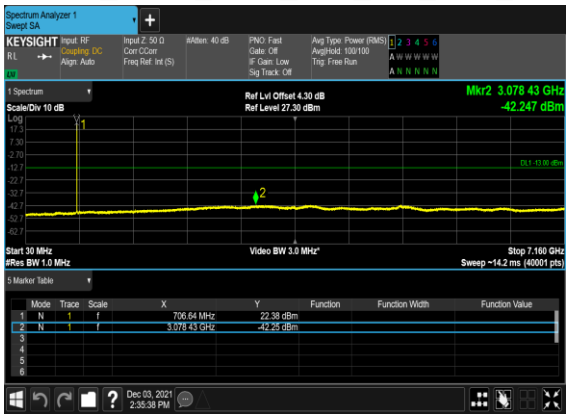
B2_N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



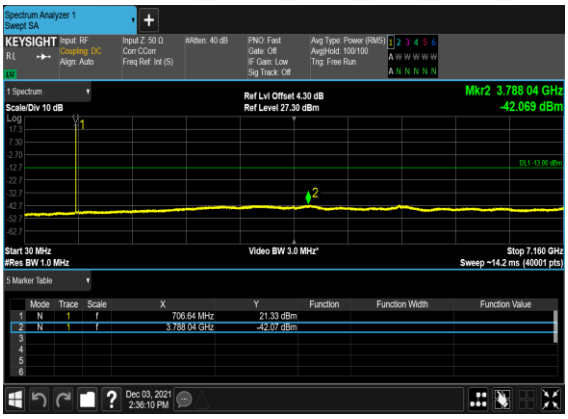
B2_N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



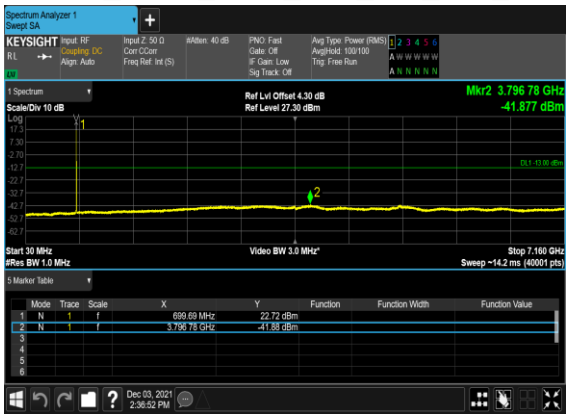
B2_N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



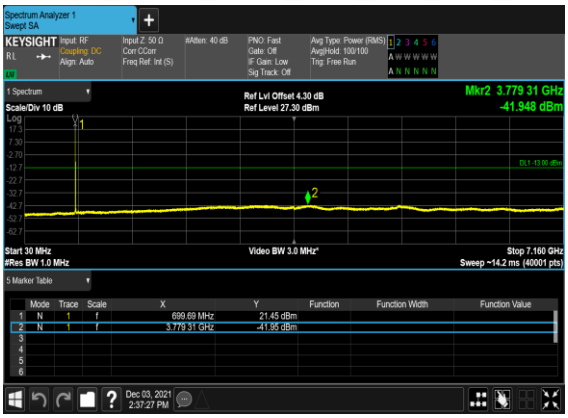
B2_N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



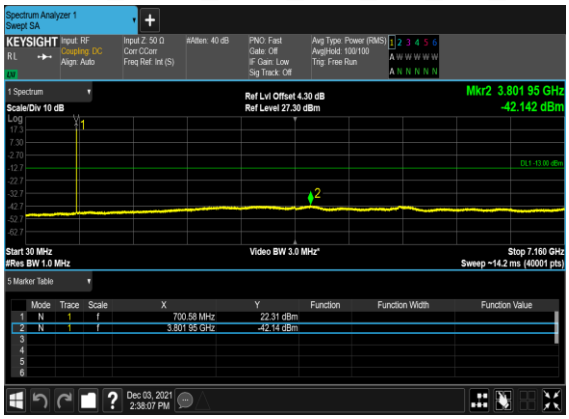
B2_N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



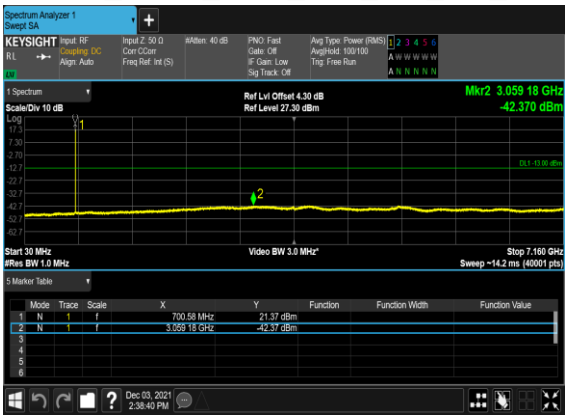
B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



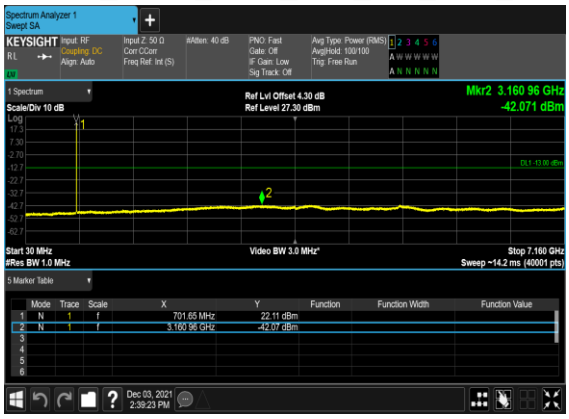
B2_N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



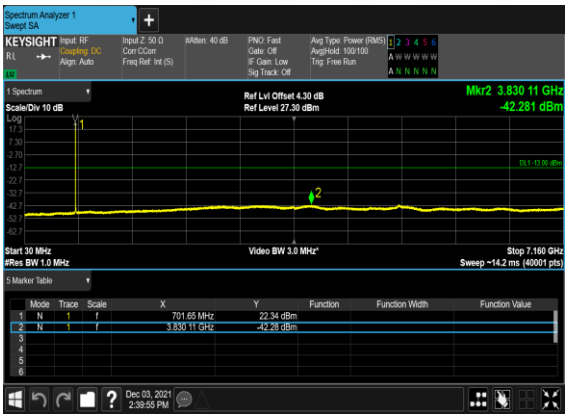
B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B2_N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



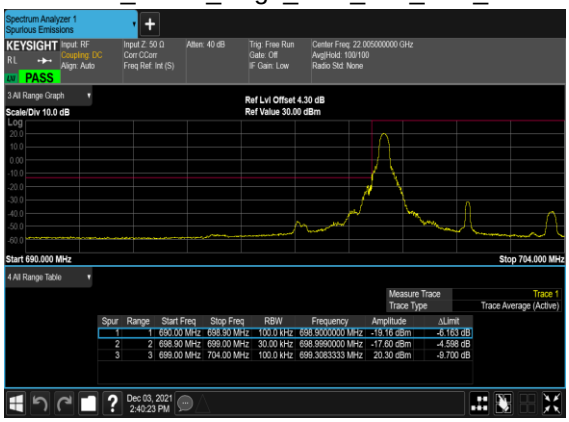
B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



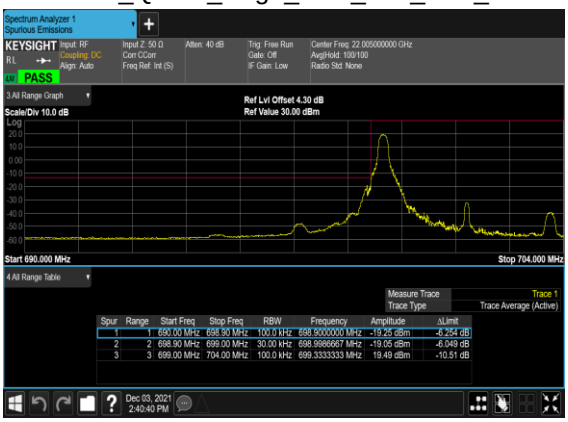
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	146300	701.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
12	15	5	146300	701.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
12	15	5	148700	713.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
12	15	10	146800	704.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
12	15	10	148200	711.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM BPSK	75@0	see graph	**PASS**
12	15	15	147300	706.5	DFT-s-OFDM QPSK	75@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	1@78	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@78	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM BPSK	75@0	see graph	**PASS**
12	15	15	147700	708.5	DFT-s-OFDM QPSK	75@0	see graph	**PASS**

B2_N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

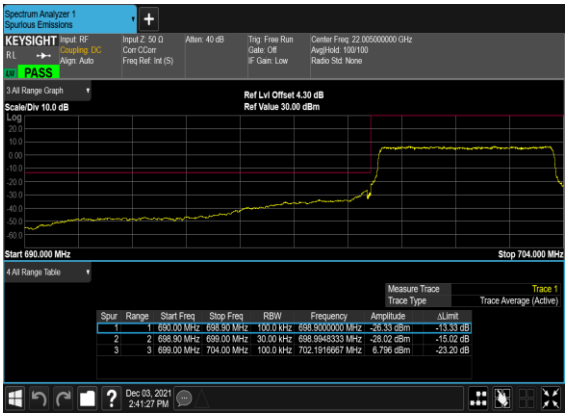


B2_N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

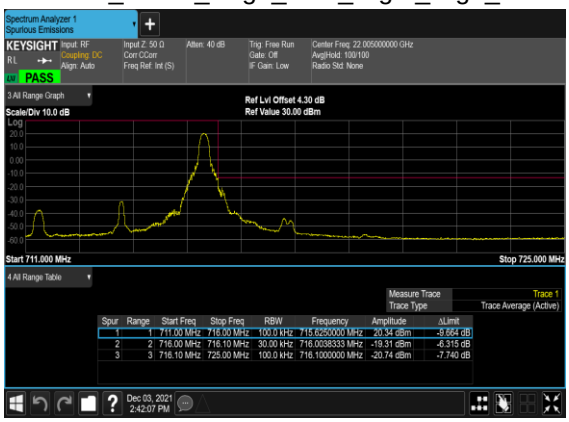


B2_N12(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

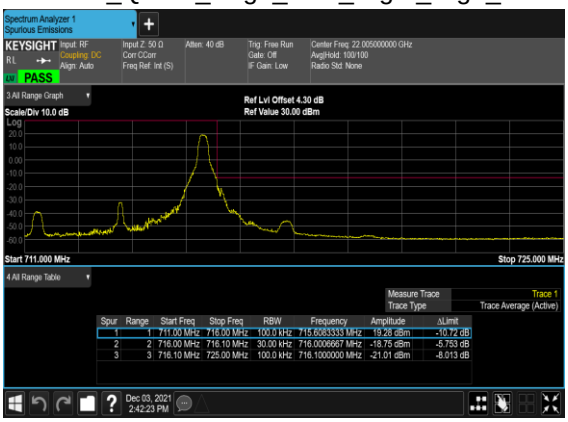
B2_N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B2_N12(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



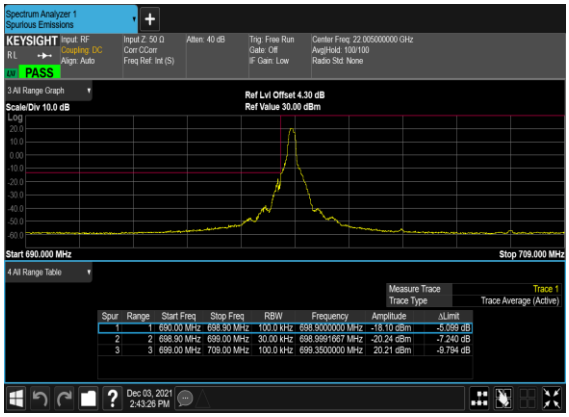
B2_N12(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



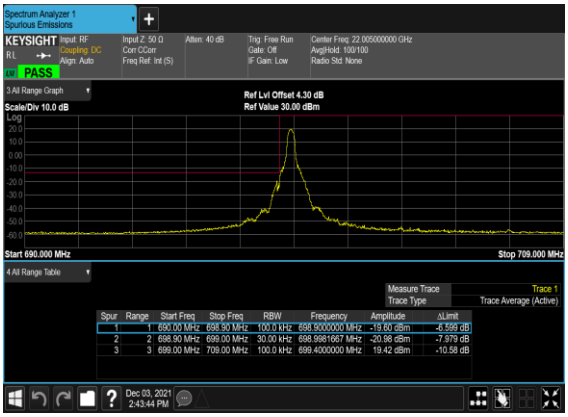
B2_N12(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

B2_N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

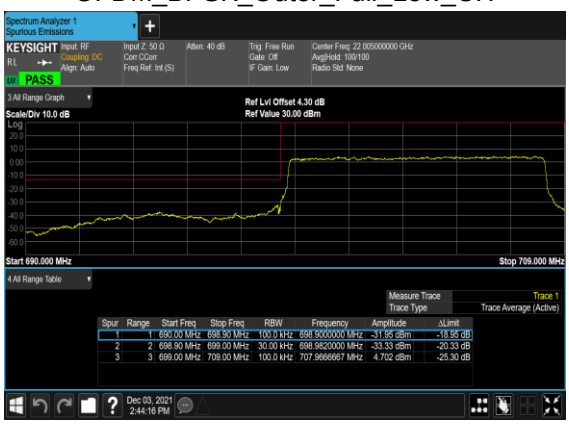
B2_N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



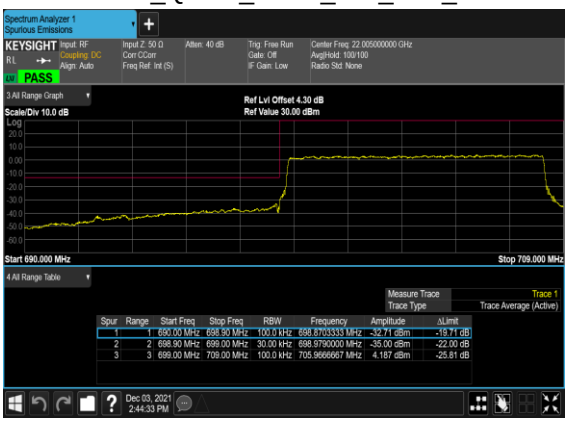
B2_N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



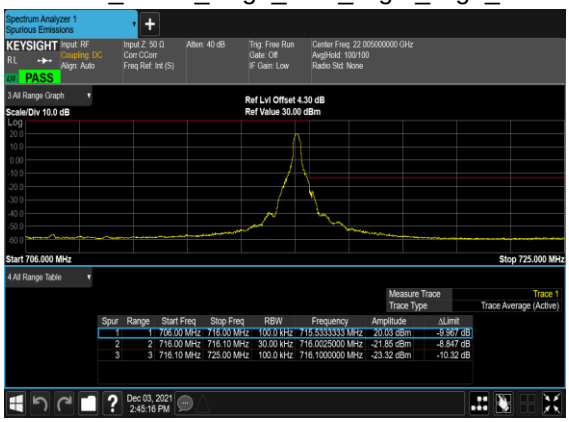
B2_N12(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



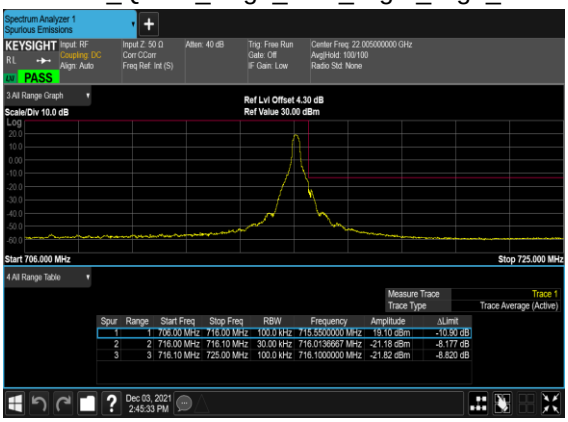
B2_N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B2_N12(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



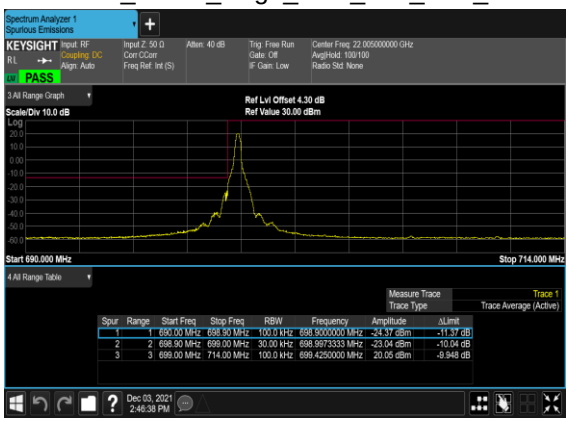
B2_N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



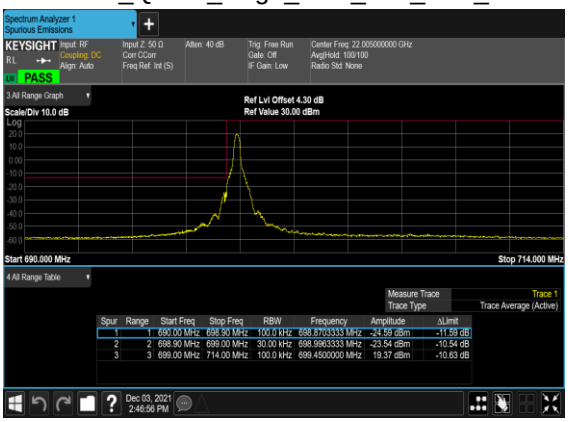
B2_N12(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

B2_N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

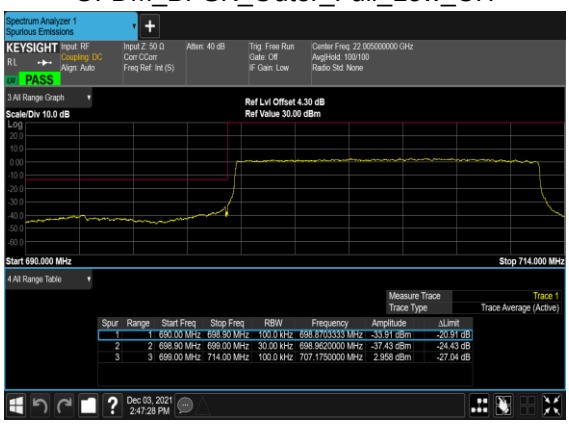
B2_N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

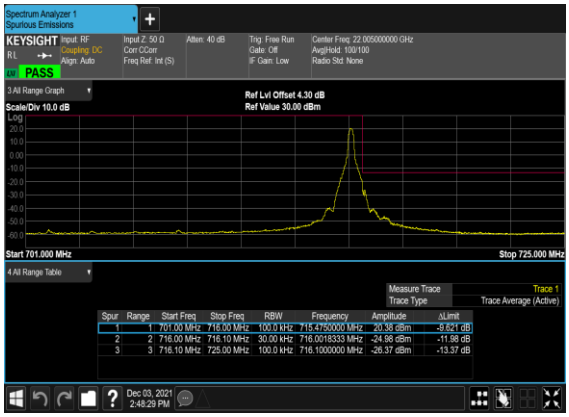


B2_N12(15M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

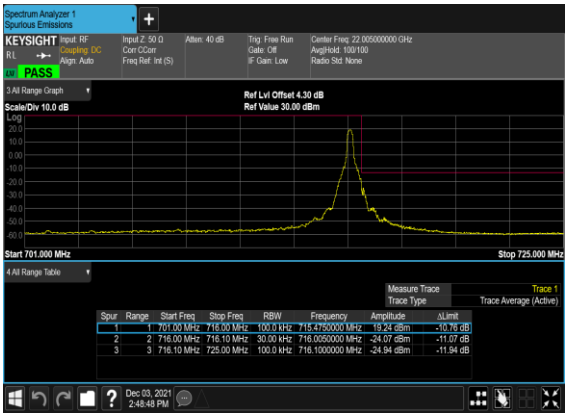


B2_N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

B2_N12(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

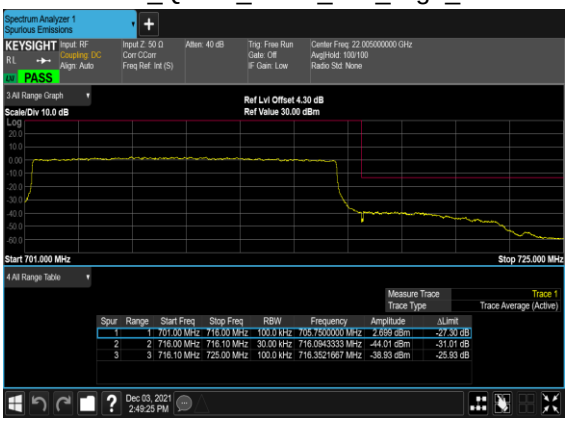


B2_N12(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B2_N12(15M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

B2_N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Software Version: 21.02.113001

FR1 N25 (ANT1)

LTE Band: 12, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -1.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
25	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	12@6	22.86	21.36	0.1368
25	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	1@1	22.94	21.44	0.1393
25	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	1@23	23.03	21.53	0.1422
25	15	5	386500	1852.5	DFT-s-OFDM QPSK	12@6	22.91	21.41	0.1384
25	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@1	22.97	21.47	0.1403
25	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@23	23.08	21.58	0.1439
25	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	12@6	22.99	21.49	0.1409
25	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.97	21.47	0.1403
25	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@23	23.01	21.51	0.1416
25	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	12@6	21.8	20.3	0.1072
25	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@1	22.03	20.53	0.1130
25	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@23	21.98	20.48	0.1117
25	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	12@6	19.71	18.21	0.0662
25	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@1	19.28	17.78	0.0600
25	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@23	19.23	17.73	0.0593
25	15	5	386500	1852.5	CP-OFDM QPSK	13@6	22.72	21.22	0.1324
25	15	5	386500	1852.5	CP-OFDM QPSK	1@1	22.87	21.37	0.1371
25	15	5	386500	1852.5	CP-OFDM QPSK	1@23	22.78	21.28	0.1343
25	15	5	392500	1882.5	DFT-s-OFDM PI/2 BPSK	12@6	22.88	21.38	0.1374
25	15	5	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	22.9	21.4	0.1380
25	15	5	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@23	22.93	21.43	0.1390
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	12@6	22.9	21.4	0.1380
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.93	21.43	0.1390
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	1@23	22.96	21.46	0.1400
25	15	5	392500	1882.5	DFT-s-OFDM 16 QAM	12@6	22.94	21.44	0.1393
25	15	5	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.94	21.44	0.1393
25	15	5	392500	1882.5	DFT-s-OFDM 16 QAM	1@23	22.95	21.45	0.1396

25	15	5	392500	1882.5	DFT-s-OFDM 64 QAM	12@6	21.8	20.3	0.1072
25	15	5	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	21.96	20.46	0.1112
25	15	5	392500	1882.5	DFT-s-OFDM 64 QAM	1@23	22.01	20.51	0.1125
25	15	5	392500	1882.5	DFT-s-OFDM 256 QAM	12@6	19.71	18.21	0.0662
25	15	5	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	19.19	17.69	0.0587
25	15	5	392500	1882.5	DFT-s-OFDM 256 QAM	1@23	19.23	17.73	0.0593
25	15	5	392500	1882.5	CP-OFDM QPSK	13@6	22.73	21.23	0.1327
25	15	5	392500	1882.5	CP-OFDM QPSK	1@1	22.79	21.29	0.1346
25	15	5	392500	1882.5	CP-OFDM QPSK	1@23	22.8	21.3	0.1349
25	15	5	398500	1912.5	DFT-s-OFDM PI/2 BPSK	12@6	23.11	21.61	0.1449
25	15	5	398500	1912.5	DFT-s-OFDM PI/2 BPSK	1@1	23.14	21.64	0.1459
25	15	5	398500	1912.5	DFT-s-OFDM PI/2 BPSK	1@23	23.1	21.6	0.1445
25	15	5	398500	1912.5	DFT-s-OFDM QPSK	12@6	23.09	21.59	0.1442
25	15	5	398500	1912.5	DFT-s-OFDM QPSK	1@1	23.07	21.57	0.1435
25	15	5	398500	1912.5	DFT-s-OFDM QPSK	1@23	23.15	21.65	0.1462
25	15	5	398500	1912.5	DFT-s-OFDM 16 QAM	12@6	23.19	21.69	0.1476
25	15	5	398500	1912.5	DFT-s-OFDM 16 QAM	1@1	23	21.5	0.1413
25	15	5	398500	1912.5	DFT-s-OFDM 16 QAM	1@23	23.03	21.53	0.1422
25	15	5	398500	1912.5	DFT-s-OFDM 64 QAM	12@6	22.01	20.51	0.1125
25	15	5	398500	1912.5	DFT-s-OFDM 64 QAM	1@1	22.09	20.59	0.1146
25	15	5	398500	1912.5	DFT-s-OFDM 64 QAM	1@23	22.13	20.63	0.1156
25	15	5	398500	1912.5	DFT-s-OFDM 256 QAM	12@6	19.9	18.4	0.0692
25	15	5	398500	1912.5	DFT-s-OFDM 256 QAM	1@1	19.34	17.84	0.0608
25	15	5	398500	1912.5	DFT-s-OFDM 256 QAM	1@23	19.41	17.91	0.0618
25	15	5	398500	1912.5	CP-OFDM QPSK	13@6	22.91	21.41	0.1384
25	15	5	398500	1912.5	CP-OFDM QPSK	1@1	22.83	21.33	0.1358
25	15	5	398500	1912.5	CP-OFDM QPSK	1@23	23	21.5	0.1413
25	15	10	387000	1855	DFT-s-OFDM PI/2 BPSK	25@12	23.09	21.59	0.1442
25	15	10	387000	1855	DFT-s-OFDM PI/2 BPSK	1@1	23.1	21.6	0.1445
25	15	10	387000	1855	DFT-s-OFDM PI/2 BPSK	1@50	23.04	21.54	0.1426
25	15	10	387000	1855	DFT-s-OFDM QPSK	25@12	23.07	21.57	0.1435
25	15	10	387000	1855	DFT-s-OFDM QPSK	1@1	23.08	21.58	0.1439
25	15	10	387000	1855	DFT-s-OFDM QPSK	1@50	23.01	21.51	0.1416
25	15	10	387000	1855	DFT-s-OFDM 16 QAM	25@12	23.12	21.62	0.1452

25	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@1	23.05	21.55	0.1429
25	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@50	22.99	21.49	0.1409
25	15	10	387000	1855	DFT-s-OFDM 64 QAM	25@12	21.93	20.43	0.1104
25	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@1	22.13	20.63	0.1156
25	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@50	22.05	20.55	0.1135
25	15	10	387000	1855	DFT-s-OFDM 256 QAM	25@12	19.87	18.37	0.0687
25	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@1	19.34	17.84	0.0608
25	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@50	19.28	17.78	0.0600
25	15	10	387000	1855	CP-OFDM QPSK	26@13	22.89	21.39	0.1377
25	15	10	387000	1855	CP-OFDM QPSK	1@1	22.9	21.4	0.1380
25	15	10	387000	1855	CP-OFDM QPSK	1@50	22.91	21.41	0.1384
25	15	10	392500	1882.5	DFT-s-OFDM PI/2 BPSK	25@12	23.02	21.52	0.1419
25	15	10	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	22.96	21.46	0.1400
25	15	10	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@50	23.04	21.54	0.1426
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	25@12	23.08	21.58	0.1439
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.9	21.4	0.1380
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	1@50	23.05	21.55	0.1429
25	15	10	392500	1882.5	DFT-s-OFDM 16 QAM	25@12	23.12	21.62	0.1452
25	15	10	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.86	21.36	0.1368
25	15	10	392500	1882.5	DFT-s-OFDM 16 QAM	1@50	23	21.5	0.1413
25	15	10	392500	1882.5	DFT-s-OFDM 64 QAM	25@12	21.86	20.36	0.1086
25	15	10	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	21.93	20.43	0.1104
25	15	10	392500	1882.5	DFT-s-OFDM 64 QAM	1@50	22.05	20.55	0.1135
25	15	10	392500	1882.5	DFT-s-OFDM 256 QAM	25@12	19.78	18.28	0.0673
25	15	10	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	19.14	17.64	0.0581
25	15	10	392500	1882.5	DFT-s-OFDM 256 QAM	1@50	19.28	17.78	0.0600
25	15	10	392500	1882.5	CP-OFDM QPSK	26@13	22.84	21.34	0.1361
25	15	10	392500	1882.5	CP-OFDM QPSK	1@1	22.7	21.2	0.1318
25	15	10	392500	1882.5	CP-OFDM QPSK	1@50	22.82	21.32	0.1355
25	15	10	398000	1910	DFT-s-OFDM PI/2 BPSK	25@12	23.16	21.66	0.1466
25	15	10	398000	1910	DFT-s-OFDM PI/2 BPSK	1@1	23.15	21.65	0.1462
25	15	10	398000	1910	DFT-s-OFDM PI/2 BPSK	1@50	23.22	21.72	0.1486
25	15	10	398000	1910	DFT-s-OFDM QPSK	25@12	23.17	21.67	0.1469
25	15	10	398000	1910	DFT-s-OFDM QPSK	1@1	23.19	21.69	0.1476

25	15	10	398000	1910	DFT-s-OFDM QPSK	1@50	23.29	21.79	0.1510
25	15	10	398000	1910	DFT-s-OFDM 16 QAM	25@12	23.27	21.77	0.1503
25	15	10	398000	1910	DFT-s-OFDM 16 QAM	1@1	23.16	21.66	0.1466
25	15	10	398000	1910	DFT-s-OFDM 16 QAM	1@50	23.2	21.7	0.1479
25	15	10	398000	1910	DFT-s-OFDM 64 QAM	25@12	22.06	20.56	0.1138
25	15	10	398000	1910	DFT-s-OFDM 64 QAM	1@1	22.21	20.71	0.1178
25	15	10	398000	1910	DFT-s-OFDM 64 QAM	1@50	22.28	20.78	0.1197
25	15	10	398000	1910	DFT-s-OFDM 256 QAM	25@12	19.94	18.44	0.0698
25	15	10	398000	1910	DFT-s-OFDM 256 QAM	1@1	19.43	17.93	0.0621
25	15	10	398000	1910	DFT-s-OFDM 256 QAM	1@50	19.47	17.97	0.0627
25	15	10	398000	1910	CP-OFDM QPSK	26@13	22.96	21.46	0.1400
25	15	10	398000	1910	CP-OFDM QPSK	1@1	23.01	21.51	0.1416
25	15	10	398000	1910	CP-OFDM QPSK	1@50	23.04	21.54	0.1426
25	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	36@18	23.4	21.9	0.1549
25	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	1@1	23.46	21.96	0.1570
25	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	1@77	23.37	21.87	0.1538
25	15	15	387500	1857.5	DFT-s-OFDM QPSK	36@18	23.41	21.91	0.1552
25	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@1	23.52	22.02	0.1592
25	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@77	23.41	21.91	0.1552
25	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	36@18	23.48	21.98	0.1578
25	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@1	23.32	21.82	0.1521
25	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@77	23.32	21.82	0.1521
25	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	36@18	22.25	20.75	0.1189
25	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@1	22.42	20.92	0.1236
25	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@77	22.41	20.91	0.1233
25	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	36@18	20.14	18.64	0.0731
25	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@1	19.7	18.2	0.0661
25	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@77	19.64	18.14	0.0652
25	15	15	387500	1857.5	CP-OFDM QPSK	39@19	23.18	21.68	0.1472
25	15	15	387500	1857.5	CP-OFDM QPSK	1@1	23.3	21.8	0.1514
25	15	15	387500	1857.5	CP-OFDM QPSK	1@77	23.07	21.57	0.1435
25	15	15	392500	1882.5	DFT-s-OFDM PI/2 BPSK	36@18	23.28	21.78	0.1507
25	15	15	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	23.27	21.77	0.1503
25	15	15	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@77	23.28	21.78	0.1507

25	15	15	392500	1882.5	DFT-s-OFDM QPSK	36@18	23.28	21.78	0.1507
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	1@1	23.31	21.81	0.1517
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	1@77	23.33	21.83	0.1524
25	15	15	392500	1882.5	DFT-s-OFDM 16 QAM	36@18	23.25	21.75	0.1496
25	15	15	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	23.23	21.73	0.1489
25	15	15	392500	1882.5	DFT-s-OFDM 16 QAM	1@77	23.26	21.76	0.1500
25	15	15	392500	1882.5	DFT-s-OFDM 64 QAM	36@18	22.11	20.61	0.1151
25	15	15	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	22.3	20.8	0.1202
25	15	15	392500	1882.5	DFT-s-OFDM 64 QAM	1@77	22.38	20.88	0.1225
25	15	15	392500	1882.5	DFT-s-OFDM 256 QAM	36@18	20	18.5	0.0708
25	15	15	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	19.44	17.94	0.0622
25	15	15	392500	1882.5	DFT-s-OFDM 256 QAM	1@77	19.52	18.02	0.0634
25	15	15	392500	1882.5	CP-OFDM QPSK	39@19	22.98	21.48	0.1406
25	15	15	392500	1882.5	CP-OFDM QPSK	1@1	23.11	21.61	0.1449
25	15	15	392500	1882.5	CP-OFDM QPSK	1@77	23	21.5	0.1413
25	15	15	397500	1907.5	DFT-s-OFDM PI/2 BPSK	36@18	23.38	21.88	0.1542
25	15	15	397500	1907.5	DFT-s-OFDM PI/2 BPSK	1@1	23.25	21.75	0.1496
25	15	15	397500	1907.5	DFT-s-OFDM PI/2 BPSK	1@77	23.28	21.78	0.1507
25	15	15	397500	1907.5	DFT-s-OFDM QPSK	36@18	23.41	21.91	0.1552
25	15	15	397500	1907.5	DFT-s-OFDM QPSK	1@1	23.31	21.81	0.1517
25	15	15	397500	1907.5	DFT-s-OFDM QPSK	1@77	23.37	21.87	0.1538
25	15	15	397500	1907.5	DFT-s-OFDM 16 QAM	36@18	23.27	21.77	0.1503
25	15	15	397500	1907.5	DFT-s-OFDM 16 QAM	1@1	23.27	21.77	0.1503
25	15	15	397500	1907.5	DFT-s-OFDM 16 QAM	1@77	23.24	21.74	0.1493
25	15	15	397500	1907.5	DFT-s-OFDM 64 QAM	36@18	22.14	20.64	0.1159
25	15	15	397500	1907.5	DFT-s-OFDM 64 QAM	1@1	22.29	20.79	0.1199
25	15	15	397500	1907.5	DFT-s-OFDM 64 QAM	1@77	22.27	20.77	0.1194
25	15	15	397500	1907.5	DFT-s-OFDM 256 QAM	36@18	20.03	18.53	0.0713
25	15	15	397500	1907.5	DFT-s-OFDM 256 QAM	1@1	19.93	18.43	0.0697
25	15	15	397500	1907.5	DFT-s-OFDM 256 QAM	1@77	19.94	18.44	0.0698
25	15	15	397500	1907.5	CP-OFDM QPSK	39@19	23.11	21.61	0.1449
25	15	15	397500	1907.5	CP-OFDM QPSK	1@1	23.28	21.78	0.1507
25	15	15	397500	1907.5	CP-OFDM QPSK	1@77	23.11	21.61	0.1449
25	15	20	388000	1860	DFT-s-OFDM PI/2 BPSK	50@25	23.39	21.89	0.1545

25	15	20	388000	1860	DFT-s-OFDM PI/2 BPSK	1@1	23.39	21.89	0.1545
25	15	20	388000	1860	DFT-s-OFDM PI/2 BPSK	1@104	23.27	21.77	0.1503
25	15	20	388000	1860	DFT-s-OFDM QPSK	50@25	23.4	21.9	0.1549
25	15	20	388000	1860	DFT-s-OFDM QPSK	1@1	23.39	21.89	0.1545
25	15	20	388000	1860	DFT-s-OFDM QPSK	1@104	23.32	21.82	0.1521
25	15	20	388000	1860	DFT-s-OFDM 16 QAM	50@25	23.43	21.93	0.1560
25	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@1	23.29	21.79	0.1510
25	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@104	23.27	21.77	0.1503
25	15	20	388000	1860	DFT-s-OFDM 64 QAM	50@25	22.15	20.65	0.1161
25	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@1	22.34	20.84	0.1213
25	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@104	22.37	20.87	0.1222
25	15	20	388000	1860	DFT-s-OFDM 256 QAM	50@25	20.13	18.63	0.0729
25	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@1	19.97	18.47	0.0703
25	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@104	19.91	18.41	0.0693
25	15	20	388000	1860	CP-OFDM QPSK	53@26	23.13	21.63	0.1455
25	15	20	388000	1860	CP-OFDM QPSK	1@1	23.25	21.75	0.1496
25	15	20	388000	1860	CP-OFDM QPSK	1@104	23.12	21.62	0.1452
25	15	20	392500	1882.5	DFT-s-OFDM PI/2 BPSK	50@25	23.26	21.76	0.1500
25	15	20	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	23.17	21.67	0.1469
25	15	20	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@104	23.26	21.76	0.1500
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	50@25	23.29	21.79	0.1510
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	1@1	23.21	21.71	0.1483
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	1@104	23.3	21.8	0.1514
25	15	20	392500	1882.5	DFT-s-OFDM 16 QAM	50@25	23.28	21.78	0.1507
25	15	20	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	23.21	21.71	0.1483
25	15	20	392500	1882.5	DFT-s-OFDM 16 QAM	1@104	23.23	21.73	0.1489
25	15	20	392500	1882.5	DFT-s-OFDM 64 QAM	50@25	22.09	20.59	0.1146
25	15	20	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	22.24	20.74	0.1186
25	15	20	392500	1882.5	DFT-s-OFDM 64 QAM	1@104	22.3	20.8	0.1202
25	15	20	392500	1882.5	DFT-s-OFDM 256 QAM	50@25	20.04	18.54	0.0714
25	15	20	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	19.78	18.28	0.0673
25	15	20	392500	1882.5	DFT-s-OFDM 256 QAM	1@104	19.86	18.36	0.0685
25	15	20	392500	1882.5	CP-OFDM QPSK	53@26	23.04	21.54	0.1426
25	15	20	392500	1882.5	CP-OFDM QPSK	1@1	23.15	21.65	0.1462

25	15	20	392500	1882.5	CP-OFDM QPSK	1@104	23.08	21.58	0.1439
25	15	20	397000	1905	DFT-s-OFDM PI/2 BPSK	50@25	23.35	21.85	0.1531
25	15	20	397000	1905	DFT-s-OFDM PI/2 BPSK	1@1	23.24	21.74	0.1493
25	15	20	397000	1905	DFT-s-OFDM PI/2 BPSK	1@104	23.31	21.81	0.1517
25	15	20	397000	1905	DFT-s-OFDM QPSK	50@25	23.35	21.85	0.1531
25	15	20	397000	1905	DFT-s-OFDM QPSK	1@1	23.28	21.78	0.1507
25	15	20	397000	1905	DFT-s-OFDM QPSK	1@104	23.39	21.89	0.1545
25	15	20	397000	1905	DFT-s-OFDM 16 QAM	50@25	23.36	21.86	0.1535
25	15	20	397000	1905	DFT-s-OFDM 16 QAM	1@1	23.45	21.95	0.1567
25	15	20	397000	1905	DFT-s-OFDM 16 QAM	1@104	23.54	22.04	0.1600
25	15	20	397000	1905	DFT-s-OFDM 64 QAM	50@25	22.19	20.69	0.1172
25	15	20	397000	1905	DFT-s-OFDM 64 QAM	1@1	22.22	20.72	0.1180
25	15	20	397000	1905	DFT-s-OFDM 64 QAM	1@104	22.3	20.8	0.1202
25	15	20	397000	1905	DFT-s-OFDM 256 QAM	50@25	20.1	18.6	0.0724
25	15	20	397000	1905	DFT-s-OFDM 256 QAM	1@1	19.87	18.37	0.0687
25	15	20	397000	1905	DFT-s-OFDM 256 QAM	1@104	19.96	18.46	0.0701
25	15	20	397000	1905	CP-OFDM QPSK	53@26	23.11	21.61	0.1449
25	15	20	397000	1905	CP-OFDM QPSK	1@1	23.18	21.68	0.1472
25	15	20	397000	1905	CP-OFDM QPSK	1@104	23.26	21.76	0.1500

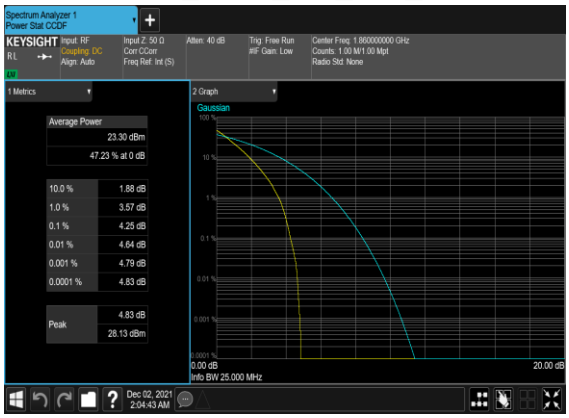
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00208	**PASS**	NV
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.0064	**PASS**	LV
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00685	**PASS**	HV
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00617	**PASS**	-30℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00246	**PASS**	-20℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00591	**PASS**	-10℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00407	**PASS**	0℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00423	**PASS**	10℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00528	**PASS**	20℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00371	**PASS**	30℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00349	**PASS**	40℃
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	-0.00676	**PASS**	50℃

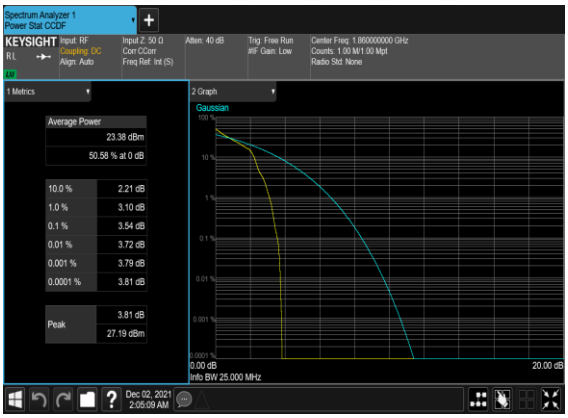
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
25	15	20	388000	1860.0	DFT-s-OFDM PI/2 BPSK	100@0	4.25	13	**PASS**
25	15	20	388000	1860.0	DFT-s-OFDM PI/2 BPSK	1@0	3.54	13	**PASS**
25	15	20	388000	1860.0	DFT-s-OFDM QPSK	100@0	4.8	13	**PASS**
25	15	20	388000	1860.0	DFT-s-OFDM QPSK	1@0	3.61	13	**PASS**
25	15	20	392500	1882.5	DFT-s-OFDM PI/2 BPSK	100@0	3.99	13	**PASS**
25	15	20	392500	1882.5	DFT-s-OFDM PI/2 BPSK	1@0	3.62	13	**PASS**
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	4.65	13	**PASS**
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	1@0	3.72	13	**PASS**
25	15	20	397000	1905.0	DFT-s-OFDM PI/2 BPSK	100@0	4.4	13	**PASS**
25	15	20	397000	1905.0	DFT-s-OFDM PI/2 BPSK	1@0	3.59	13	**PASS**
25	15	20	397000	1905.0	DFT-s-OFDM QPSK	100@0	4.67	13	**PASS**
25	15	20	397000	1905.0	DFT-s-OFDM QPSK	1@0	3.71	13	**PASS**

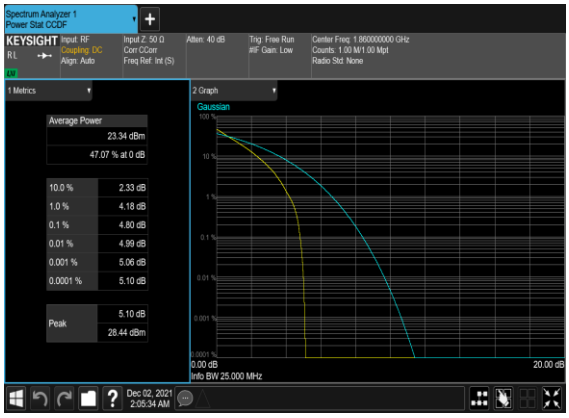
B12_N25(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



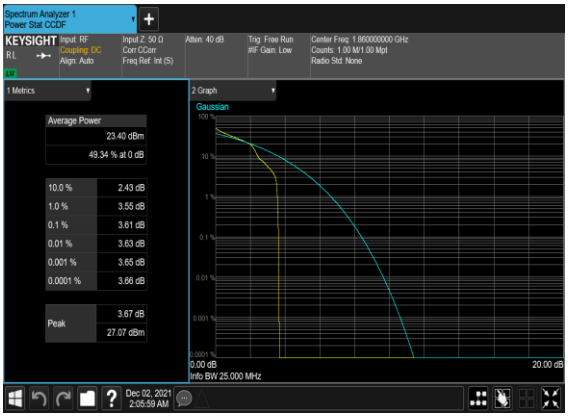
B12_N25(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



B12_N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

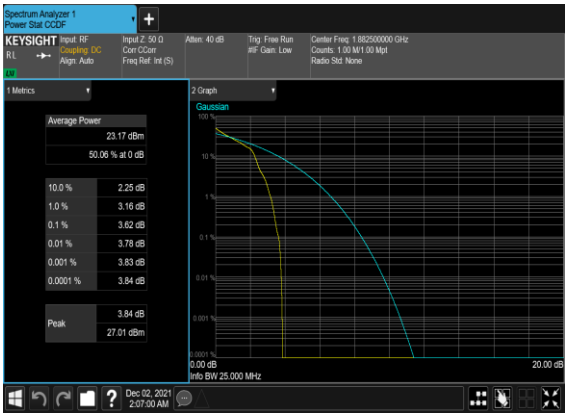


B12_N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

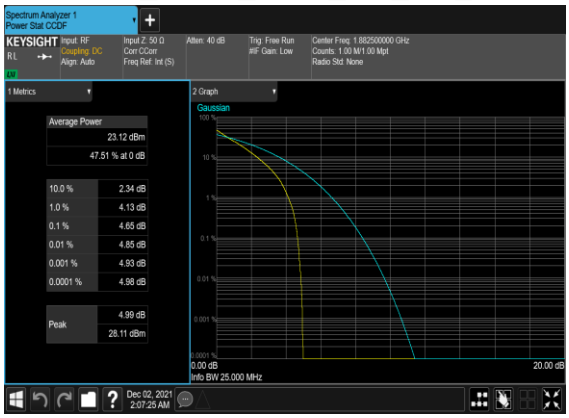


B12_N25(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

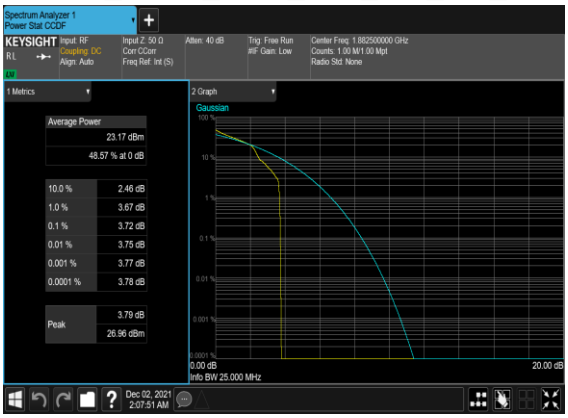
B12_N25(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



B12_N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

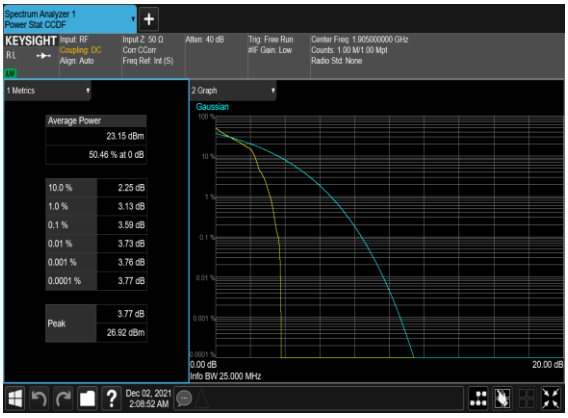


B12_N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



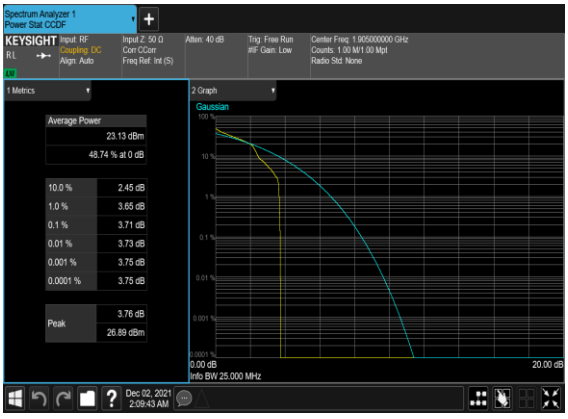
B12_N25(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

B12_N25(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B12_N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

B12_N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



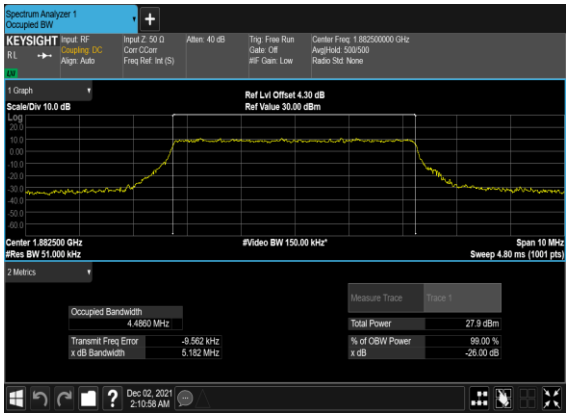
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
25	15	5	392500	1882.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4721	5.033
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	25@0	4.4687	4.886
25	15	5	392500	1882.5	CP-OFDM QPSK	25@0	4.486	5.182
25	15	5	392500	1882.5	CP-OFDM 16 QAM	25@0	4.4841	5.124
25	15	5	392500	1882.5	CP-OFDM 64 QAM	25@0	4.4853	5.109
25	15	5	392500	1882.5	CP-OFDM 256 QAM	25@0	4.4825	5.163
25	15	10	392500	1882.5	DFT-s-OFDM PI/2 BPSK	50@0	8.8881	9.523
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	50@0	8.9126	9.685
25	15	10	392500	1882.5	CP-OFDM QPSK	52@0	9.2829	10.15
25	15	10	392500	1882.5	CP-OFDM 16 QAM	52@0	9.2932	10.17
25	15	10	392500	1882.5	CP-OFDM 64 QAM	52@0	9.2757	10.01
25	15	10	392500	1882.5	CP-OFDM 256 QAM	52@0	9.2799	10.03
25	15	15	392500	1882.5	DFT-s-OFDM PI/2 BPSK	75@0	13.387	14.32
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	75@0	13.398	14.31
25	15	15	392500	1882.5	CP-OFDM QPSK	79@0	14.092	15.02
25	15	15	392500	1882.5	CP-OFDM 16 QAM	79@0	14.122	15.03
25	15	15	392500	1882.5	CP-OFDM 64 QAM	79@0	14.123	15.01
25	15	15	392500	1882.5	CP-OFDM 256 QAM	79@0	14.144	15.03
25	15	20	392500	1882.5	DFT-s-OFDM PI/2 BPSK	100@0	17.895	18.81
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	17.872	18.87
25	15	20	392500	1882.5	CP-OFDM QPSK	106@0	18.932	20.07
25	15	20	392500	1882.5	CP-OFDM 16 QAM	106@0	18.94	20.06
25	15	20	392500	1882.5	CP-OFDM 64 QAM	106@0	18.918	19.86
25	15	20	392500	1882.5	CP-OFDM 256 QAM	106@0	18.99	20.11

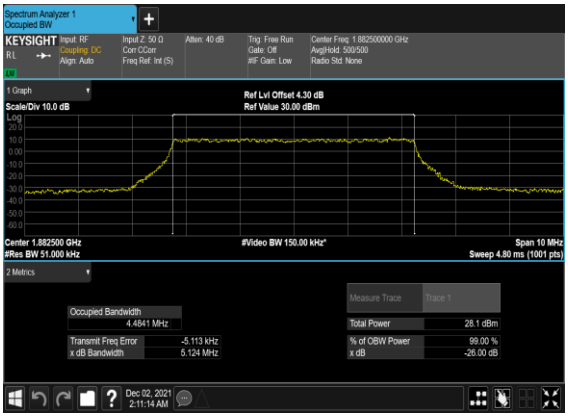
B12_N25(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

B12_N25(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

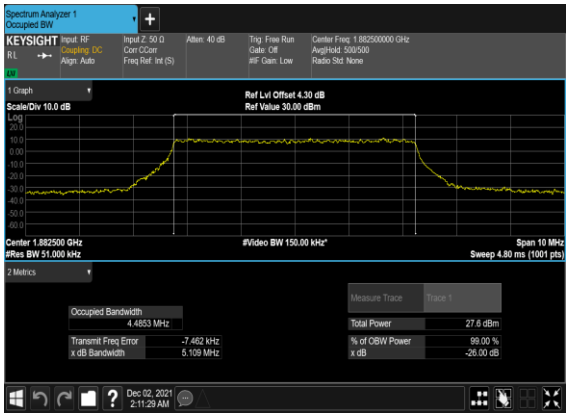
B12_N25(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



B12_N25(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B12_N25(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B12_N25(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH