



FCC RF Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : vivo
MODEL NAME : V2208
FCC ID : 2AUCY-V2202V
STANDARD : 47 CFR Part 2, 22, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Aug. 16, 2022 ~ Sep. 02, 2022

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)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG281001	Rev. 01	Initial issue of report	Sep. 14, 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 n5)	ERP < 7 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n41)	EIRP < 2Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a))	Conducted Band Edge Measurement (5G NR n5)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a)	Conducted Spurious Emission (5G NR n5)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a)	Radiated Spurious Emission (5G NR n5)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 24.44 dB at 10203.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		

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

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	V2208
FCC ID	2AUCY-V2202V
IMEI Code	Conducted : 861947060177029/861947060177037 Radiation : 861947060158789/861947060158797 for 5G NR n5 861947060178662/861947060178670 for 5G NR n41
HW Version	MP_0.1
SW Version	PD2215EF_EX_A_12.0.4.9.W30.V2403L6
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n5 : 824 MHz ~ 849 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Rx Frequency	5G NR n5 : 869 MHz ~ 894 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Bandwidth	n5: 5MHz / 10MHz / 15MHz / 20MHz n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz: 5G NR n5/n7/n41 30kHz: 5G NR n5/n7/n41
Antenna Gain	<Ant. 13> n5: -2.9 dBi n41 : 0 dBi <Ant. 11> n41 : -1.6 dBi <Ant. 41> n5: -3.1 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM

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

Remark:

1. The maximum ERP/EIRP is calculated from max output power and antenna gain, only the maximum ERP/EIRP is shown in the report: 5G NR n5 for Ant. 41 and 5G NR n41 for Ant.13.
2. The device supports SA mode for 5G NR n41 and NSA mode for 5G NR n5
3. For 5G NR n5, NSA covers SA, and SCS 15kHz cover 30kHz by referring to the maximum power.
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 Maximum ERP/EIRP Power and Emission Designator

5G NR n5 EN DC_7A-n5A		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	0.0776	4M47G7D	0.0630	4M47W7D
10	829.0 ~ 844.0	0.0743	9M30G7D	0.0608	9M30W7D
15	831.5 ~ 841.5	0.0767	14M1G7D	0.0640	14M1W7D
20	834.0 ~ 839.0	0.0778	18M9G7D	0.0640	18M9W7D

5G NR n41-SCS 15kHz		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	0.1832	9M28G7D	0.1486	9M30W7D
15	2503.50 ~ 2682.48	0.1858	14M1G7D	0.1455	14M1W7D
20	2506.02 ~ 2679.99	0.1811	18M9G7D	0.1459	18M9W7D
30	2511.00 ~ 2674.98	0.1778	28M6G7D	0.1355	28M5W7D
40	2516.01 ~ 2670.00	0.1687	38M6G7D	0.1334	38M5W7D
50	2521.02 ~ 2664.99	0.2032	48M2G7D	0.1626	48M2W7D

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



5G NR n41-SCS 30kHz		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	0.2042	8M59G7D	0.1592	8M58W7D
15	2503.50 ~ 2682.48	0.1941	13M6G7D	0.1517	13M6W7D
20	2506.02 ~ 2679.99	0.1923	18M2G7D	0.1432	18M2W7D
30	2511.00 ~ 2674.98	0.1824	27M8G7D	0.1400	27M9W7D
40	2516.01 ~ 2670.00	0.1782	37M9G7D	0.1349	37M8W7D
50	2521.02 ~ 2664.99	0.1858	47M5G7D	0.1462	47M5W7D
60	2526.00 ~ 2659.98	0.1862	57M9G7D	0.1486	57M8W7D
80	2536.02 ~ 2649.99	0.1589	77M4G7D	0.1303	77M5W7D
90	2541.00 ~ 2644.98	0.1538	87M4G7D	0.1216	87M4W7D
100	2546.01 ~ 2640.00	0.2061	97M4G7D	0.1611	97M2W7D

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

1.7 Testing Location

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

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	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 China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272



1.8 Test Software

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

1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 22, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

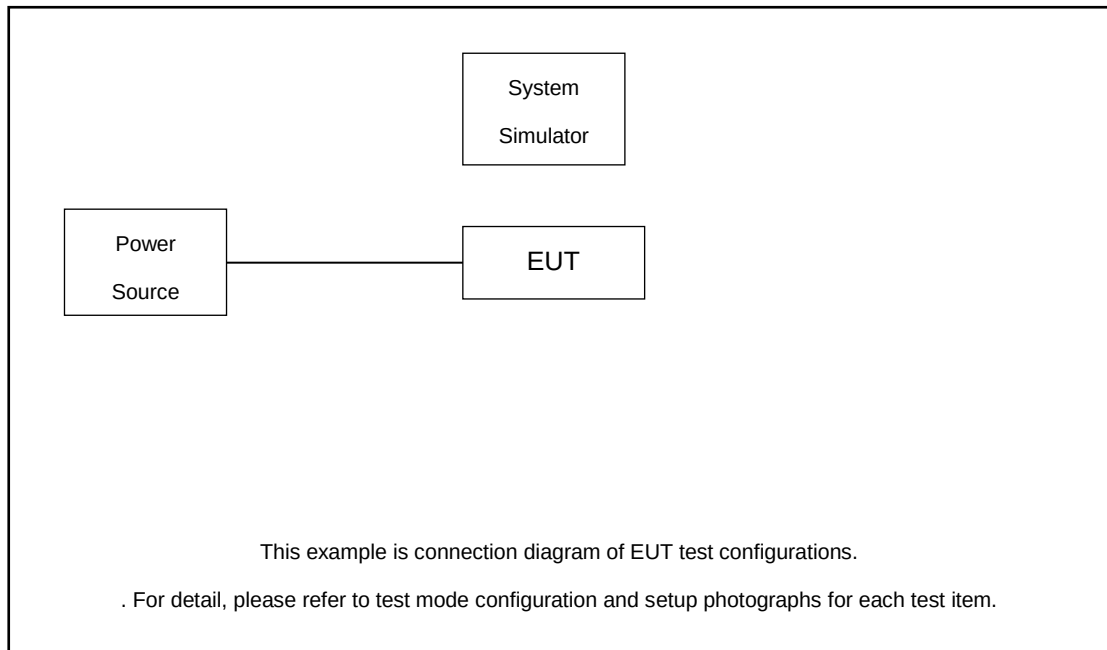
Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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.

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n5				v	-	-	-	-	-	-	-	-	-	v	v				v	v	v	v	v
	n41	-			v	-					-				v	v				v	v	v	v	v
26dB and 99% Bandwidth	n5	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	
Conducted Band Edge	n5	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v	v	v		v
	n41	-	v		v	-			v		-			V	v	v				v	v	v		v
Conducted Spurious Emission	n5	v	v		v	-	-	-	-	-	-	-	-	-	v	v				v		v	v	v
	n41	-	v		v	-			v		-			v	v	v				v		v	v	v
Frequency Stability	n5				v	-	-	-	-	-	-	-	-	-		v					v		v	
	n41	-			v	-					-					v					v		v	
E.R.P / E.I.R.P	n5	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
Radiated Spurious Emission	n5	Worst Case																				v		
	n41	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 = 3.89V ; Low Voltage =3.60V. ; High Voltage =4.48V																							

2.2 Connection Diagram of Test System



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

2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss. *Offset = RF cable loss.*

Following shows an offset computation example with cable loss 7.7 dB.

Example : *Offset(dB) = RF cable loss(dB).*

$$= 7.7(\text{dB})$$

2.5 Frequency List of Low/Middle/High Channels

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

5G NR 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
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

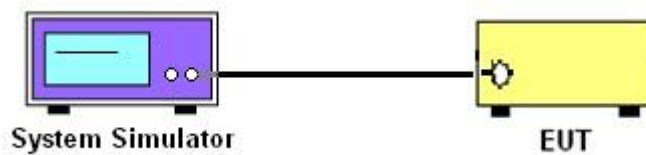
3 Conducted Test Items

3.1 Measuring Instruments

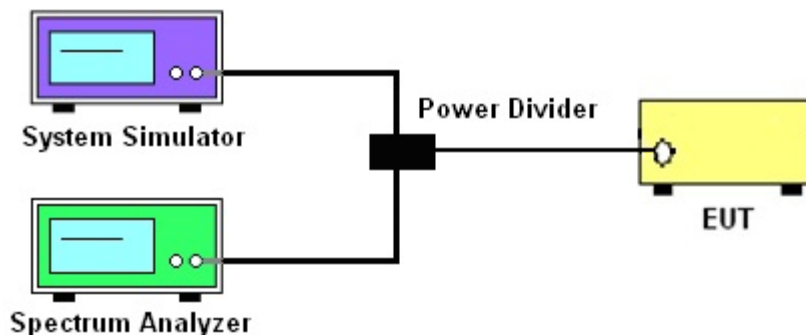
See list of measuring instruments of this test report.

3.2 Test Setup

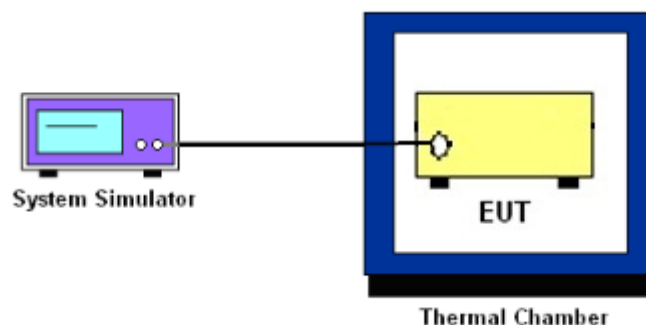
3.2.1 Conducted Output Power



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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

27.53(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 than $43 + 10 \log (P)$ 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.
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. For 5G NR n7/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. 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 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)
 $= -13$ dBm.
11. For 5G NR 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)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

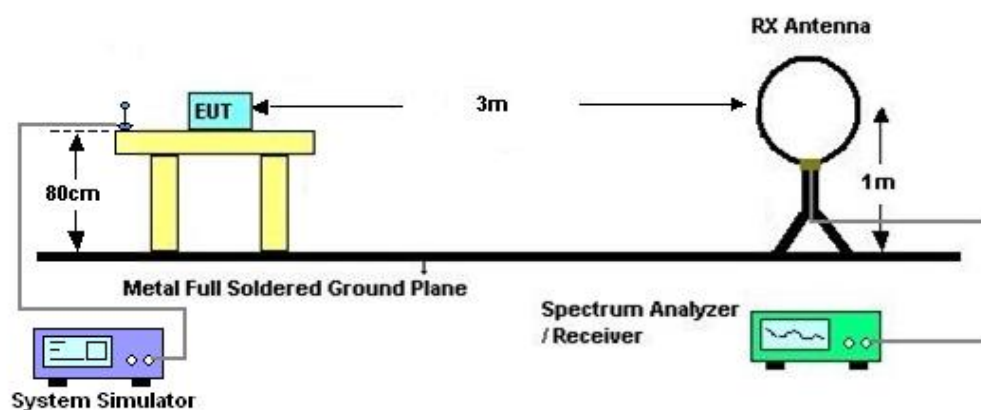
4 Radiated Test Items

4.1 Measuring Instruments

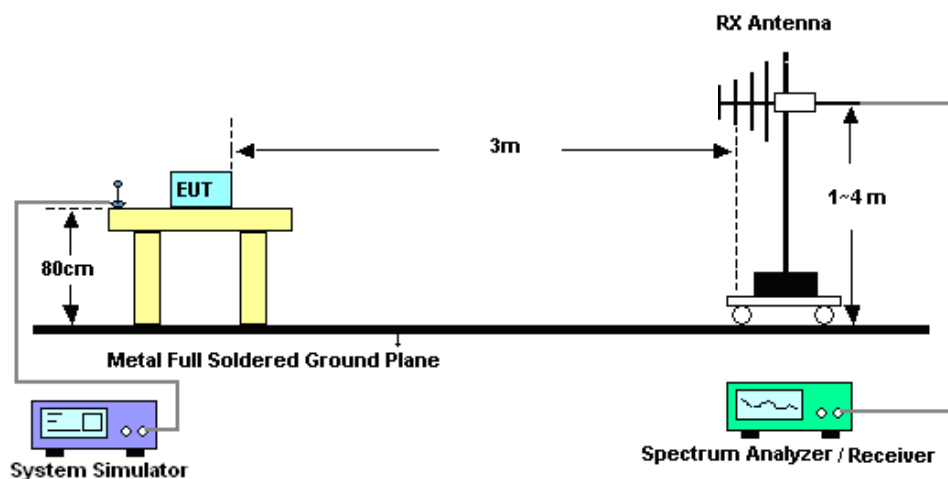
See list of measuring instruments of this test report.

4.2 Test Setup

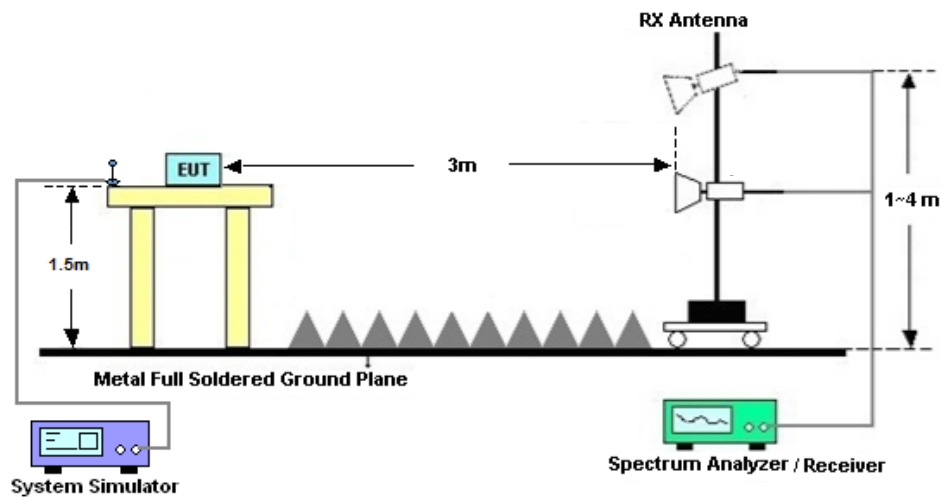
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For 5G NR 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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

13. For 5G NR 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. 07, 2022	Aug. 16, 2022~ Sep. 02, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Aug. 16, 2022~ Sep. 02, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	Aug. 16, 2022~ Sep. 02, 2022	Jul. 06, 2023	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Aug. 22, 2022	Jul. 06, 2023	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2022	Aug. 22, 2022	Jun. 21, 2023	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D		30MHz-2GHz	Oct. 22, 2021	Aug. 22, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Aug. 22, 2022	Jul. 06, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2022	Aug. 22, 2022	Jul. 06, 2023	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Aug. 22, 2022	Apr. 09, 2023	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 22, 2021	Aug. 22, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	Aug. 22, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Aug. 22, 2022	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Aug. 22, 2022	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Aug. 22, 2022	NCR	Radiation (03CH02-SZ)

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% ($U = 2Uc(y)$)	2.47dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	Temperature :	22~23°C
		Relative Humidity :	40~42%

FR1 N5 (ANT41)

LTE Band: 7, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And ERP, (G_T-L_C)=-3.1dBi

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@1	24.15	18.9	0.0776
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@1	23.24	17.99	0.0630
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@1	23.96	18.71	0.0743
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.17	17.92	0.0619
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@1	23.82	18.57	0.0719
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@1	23.01	17.76	0.0597
5	15	10	174800	829	DFT-s-OFDM QPSK	1@1	23.96	18.71	0.0743
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@1	23.09	17.84	0.0608
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@1	23.76	18.51	0.0710
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.08	17.83	0.0607
5	15	10	177800	844	DFT-s-OFDM QPSK	1@1	23.64	18.39	0.0690
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@1	22.95	17.7	0.0589
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@1	24.1	18.85	0.0767
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@1	23.18	17.93	0.0621
5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@1	23.97	18.72	0.0745
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.31	18.06	0.0640
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@1	23.91	18.66	0.0735
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@1	23.22	17.97	0.0627
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	50@25	23.91	18.66	0.0735
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	1@1	23.85	18.6	0.0724
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	1@104	23.57	18.32	0.0679
5	15	20	175800	834	DFT-s-OFDM QPSK	50@25	23.95	18.7	0.0741
5	15	20	175800	834	DFT-s-OFDM QPSK	1@1	24.16	18.91	0.0778
5	15	20	175800	834	DFT-s-OFDM QPSK	1@104	23.86	18.61	0.0726
5	15	20	175800	834	DFT-s-OFDM 16 QAM	50@25	23.08	17.83	0.0607
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@1	23.13	17.88	0.0614
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@104	22.96	17.71	0.0590
5	15	20	175800	834	DFT-s-OFDM 64	50@	21.51	16.26	0.0423

					QAM	25			
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@1	21.02	15.77	0.0378
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@1 04	20.89	15.64	0.0366
5	15	20	175800	834	DFT-s-OFDM 256 QAM	50@ 25	19.48	14.23	0.0265
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@1	19.7	14.45	0.0279
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@1 04	19.51	14.26	0.0267
5	15	20	175800	834	CP-OFDM QPSK	53@ 26	22.53	17.28	0.0535
5	15	20	175800	834	CP-OFDM QPSK	1@1	22.4	17.15	0.0519
5	15	20	175800	834	CP-OFDM QPSK	1@1 04	22.22	16.97	0.0498
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	50@ 25	23.89	18.64	0.0731
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.81	18.56	0.0718
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1 04	23.58	18.33	0.0681
5	15	20	176300	836.5	DFT-s-OFDM QPSK	50@ 25	23.91	18.66	0.0735
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@1	24.11	18.86	0.0769
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@1 04	23.74	18.49	0.0706
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	50@ 25	23.1	17.85	0.0610
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@1	23.26	18.01	0.0632
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@1 04	23.09	17.84	0.0608
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	50@ 25	21.57	16.32	0.0429
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@1	21.25	16	0.0398
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@1 04	21.02	15.77	0.0378
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	50@ 25	19.47	14.22	0.0264
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@1	19.75	14.5	0.0282
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@1 04	19.55	14.3	0.0269
5	15	20	176300	836.5	CP-OFDM QPSK	53@ 26	22.56	17.31	0.0538
5	15	20	176300	836.5	CP-OFDM QPSK	1@1	22.48	17.23	0.0528
5	15	20	176300	836.5	CP-OFDM QPSK	1@1 04	22.32	17.07	0.0509
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	50@ 25	23.85	18.6	0.0724
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	1@1	23.65	18.4	0.0692
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	1@1 04	23.51	18.26	0.0670
5	15	20	176800	839	DFT-s-OFDM QPSK	50@ 25	23.88	18.63	0.0729
5	15	20	176800	839	DFT-s-OFDM QPSK	1@1	23.93	18.68	0.0738
5	15	20	176800	839	DFT-s-OFDM QPSK	1@1 04	23.8	18.55	0.0716
5	15	20	176800	839	DFT-s-OFDM 16 QAM	50@ 25	23.05	17.8	0.0603
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@1	23.31	18.06	0.0640

5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@1 04	23.19	17.94	0.0622
5	15	20	176800	839	DFT-s-OFDM 64 QAM	50@ 25	21.53	16.28	0.0425
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@1	21.2	15.95	0.0394
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@1 04	21.09	15.84	0.0384
5	15	20	176800	839	DFT-s-OFDM 256 QAM	50@ 25	19.47	14.22	0.0264
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@1	19.77	14.52	0.0283
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@1 04	19.6	14.35	0.0272
5	15	20	176800	839	CP-OFDM QPSK	53@ 26	22.49	17.24	0.0530
5	15	20	176800	839	CP-OFDM QPSK	1@1	22.47	17.22	0.0527
5	15	20	176800	839	CP-OFDM QPSK	1@1 04	22.31	17.06	0.0508

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0023	PASS	NV
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0042	PASS	LV
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0054	PASS	HV
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0045	PASS	-30°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0064	PASS	-20°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0058	PASS	-10°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0040	PASS	0°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0051	PASS	10°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0023	PASS	20°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0020	PASS	30°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0061	PASS	40°C
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	0.0032	PASS	50°C

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	15	20	175800	834.0	DFT-s-OFDM PI/2 BPSK	100@0	3.87	13	PASS
5	15	20	175800	834.0	DFT-s-OFDM PI/2 BPSK	1@0	3.07	13	PASS
5	15	20	175800	834.0	DFT-s-OFDM QPSK	100@0	4.84	13	PASS
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	4.48	13	PASS
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	3.89	13	PASS
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@0	2.9	13	PASS
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	4.91	13	PASS
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@0	4.17	13	PASS
5	15	20	176800	839.0	DFT-s-OFDM PI/2 BPSK	100@0	3.86	13	PASS
5	15	20	176800	839.0	DFT-s-OFDM PI/2 BPSK	1@0	2.81	13	PASS
5	15	20	176800	839.0	DFT-s-OFDM QPSK	100@0	5.02	13	PASS
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@0	4.05	13	PASS

B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



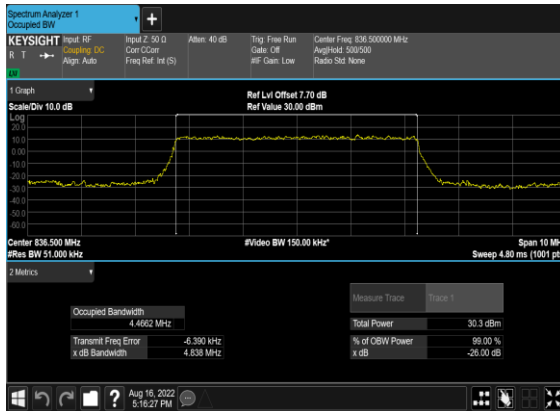
B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



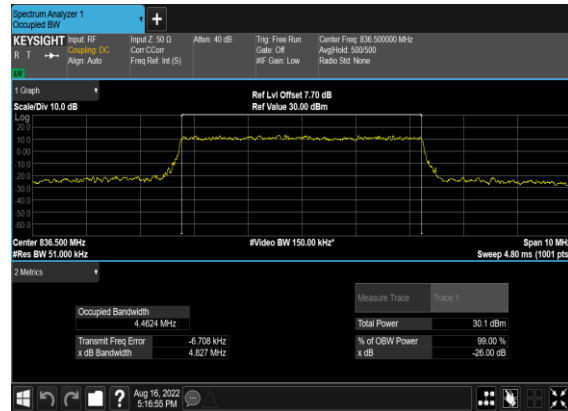
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4662	4.838
5	15	5	176300	836.5	DFT-s-OFDM QPSK	25@0	4.4624	4.827
5	15	5	176300	836.5	CP-OFDM QPSK	25@0	4.4627	4.869
5	15	5	176300	836.5	CP-OFDM 16 QAM	25@0	4.4661	4.884
5	15	5	176300	836.5	CP-OFDM 64 QAM	25@0	4.4719	4.842
5	15	5	176300	836.5	CP-OFDM 256 QAM	25@0	4.467	4.819
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	50@0	8.9044	9.522
5	15	10	176300	836.5	DFT-s-OFDM QPSK	50@0	8.9205	9.454
5	15	10	176300	836.5	CP-OFDM QPSK	52@0	9.2959	9.905
5	15	10	176300	836.5	CP-OFDM 16 QAM	52@0	9.3023	11.04
5	15	10	176300	836.5	CP-OFDM 64 QAM	52@0	9.2983	9.885
5	15	10	176300	836.5	CP-OFDM 256 QAM	52@0	9.2776	9.874
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	75@0	13.389	14.02
5	15	15	176300	836.5	DFT-s-OFDM QPSK	75@0	13.441	14.04
5	15	15	176300	836.5	CP-OFDM QPSK	79@0	14.131	14.8
5	15	15	176300	836.5	CP-OFDM 16 QAM	79@0	14.097	14.79
5	15	15	176300	836.5	CP-OFDM 64 QAM	79@0	14.086	14.77
5	15	15	176300	836.5	CP-OFDM 256 QAM	79@0	14.082	14.77
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	17.864	18.88
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	17.876	18.91
5	15	20	176300	836.5	CP-OFDM QPSK	106@0	18.895	19.83
5	15	20	176300	836.5	CP-OFDM 16 QAM	106@0	18.916	19.88
5	15	20	176300	836.5	CP-OFDM 64 QAM	106@0	18.906	19.87
5	15	20	176300	836.5	CP-OFDM 256 QAM	106@0	18.88	19.84

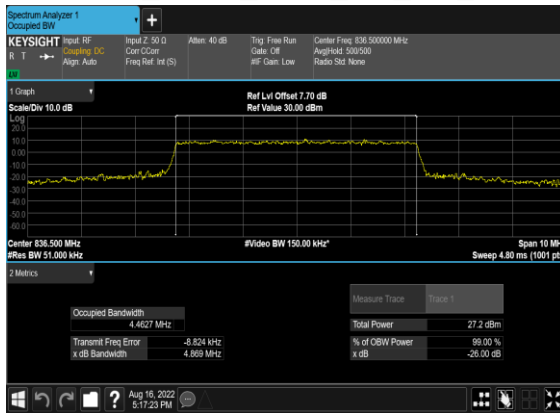
B7_N5(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



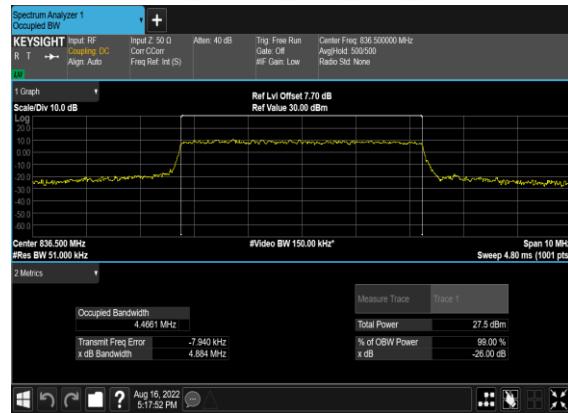
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OFDM_QPSK_Outer_Full_Mid_CH



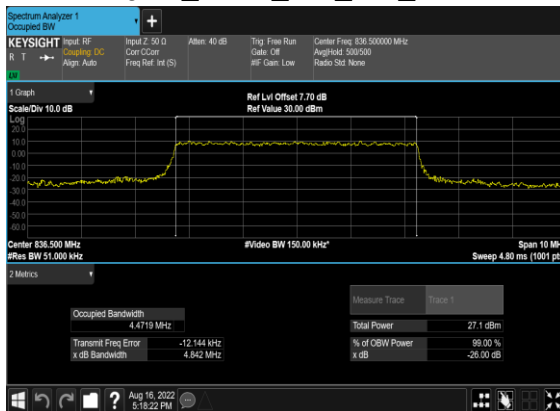
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OFDM_QPSK_Outer_Full_Mid_CH



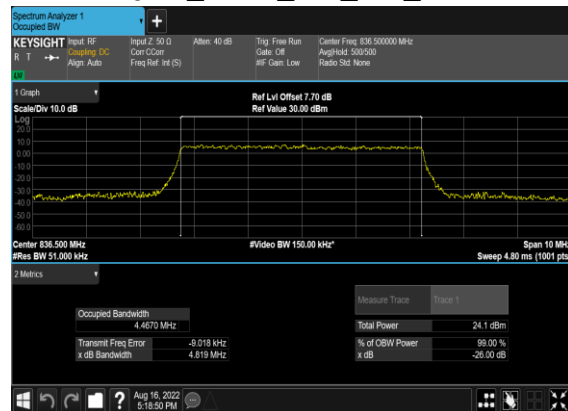
B7_N5(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



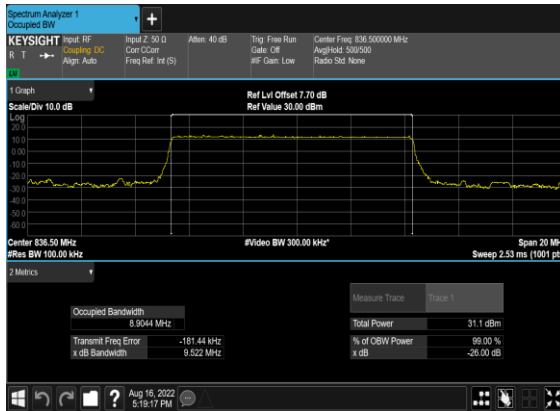
B7_N5(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



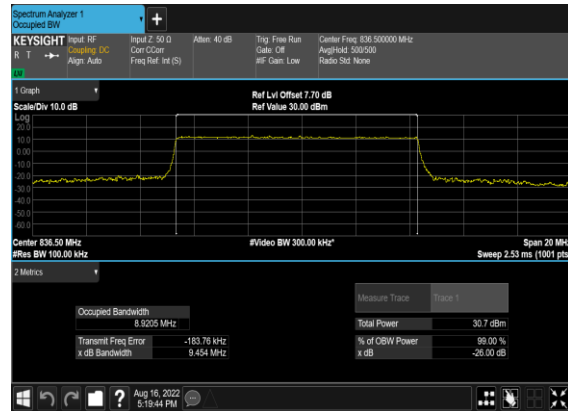
B7_N5(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



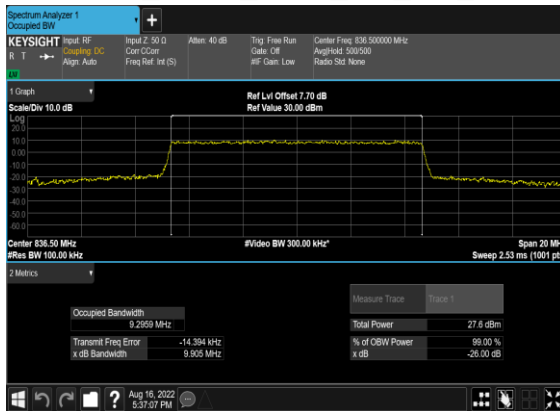
B7_N5(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



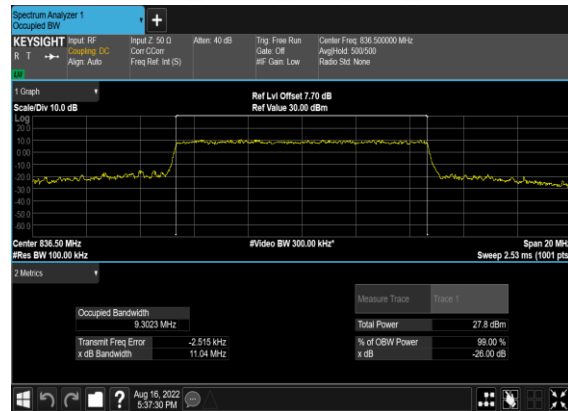
B7_N5(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



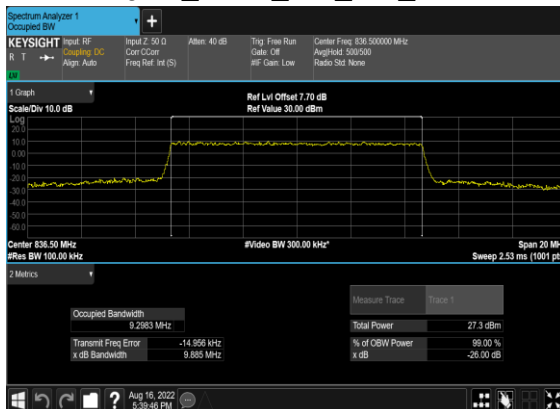
B7_N5(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



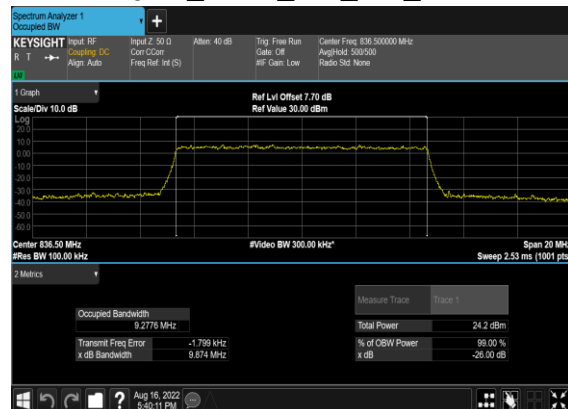
B7_N5(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



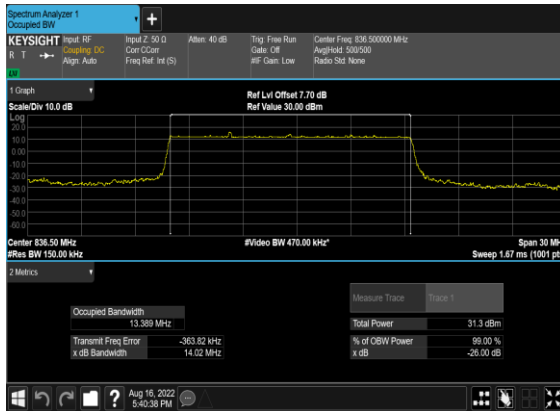
B7_N5(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



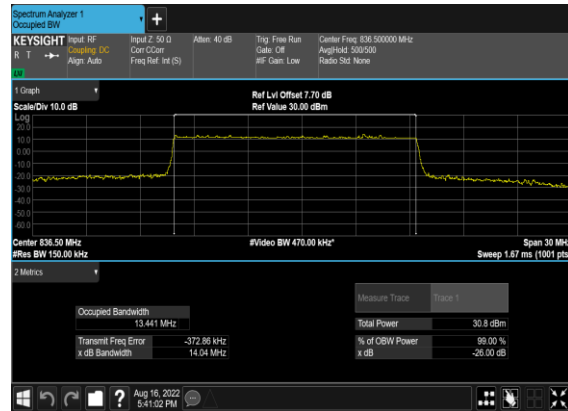
B7_N5(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



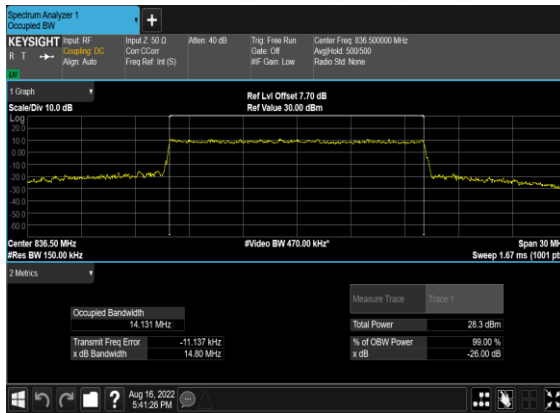
B7_N5(15M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



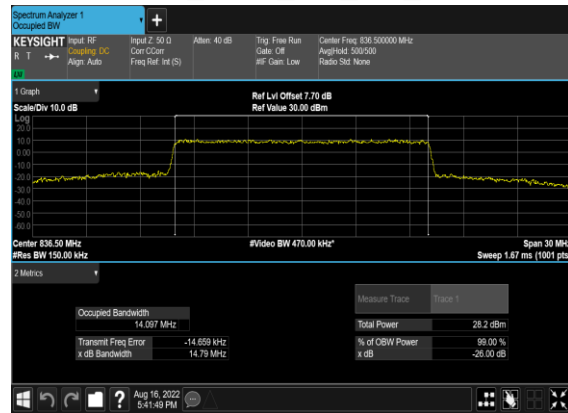
B7_N5(15M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



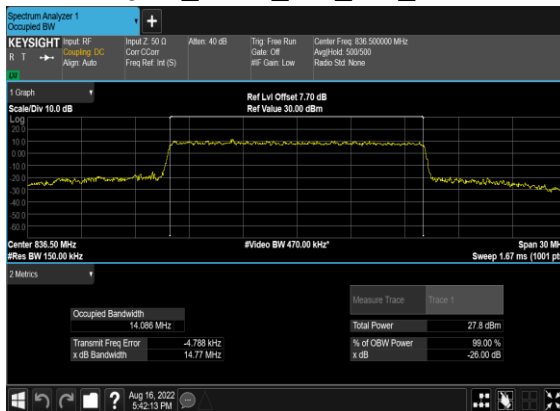
B7_N5(15M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



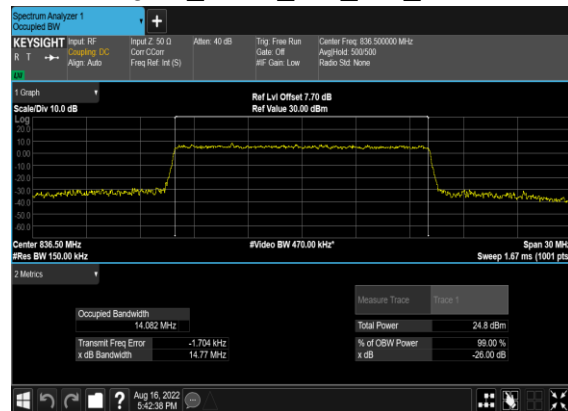
B7_N5(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



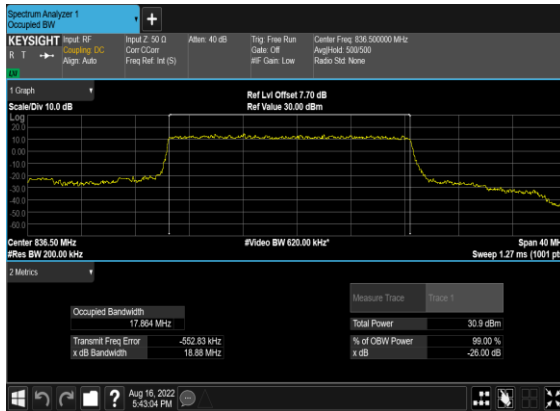
B7_N5(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



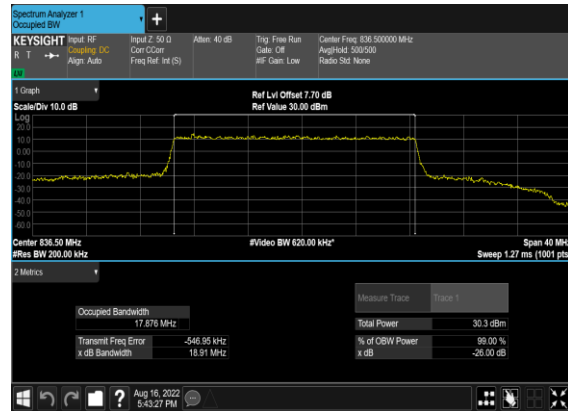
B7_N5(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



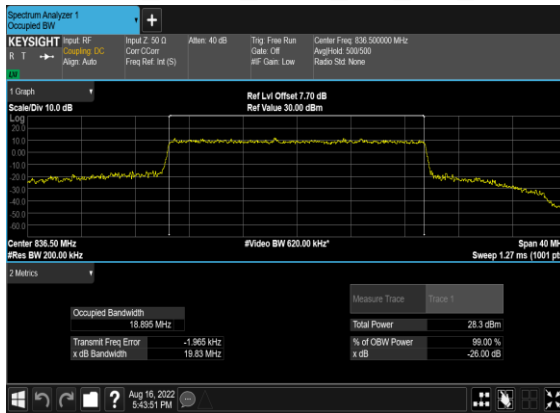
B7_N5(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



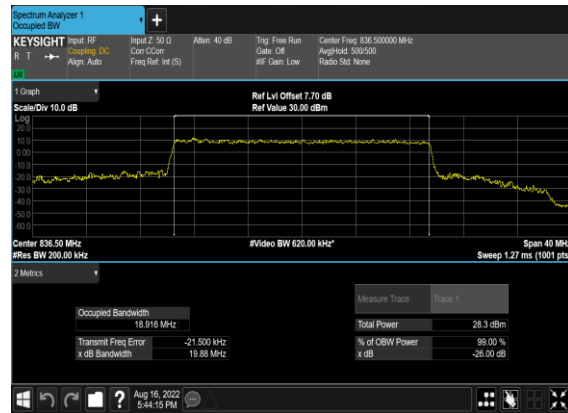
B7_N5(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



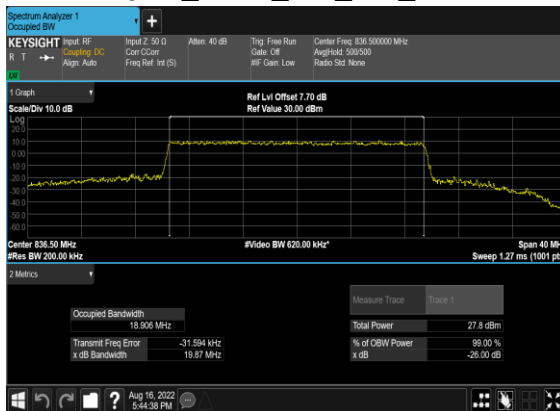
B7_N5(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



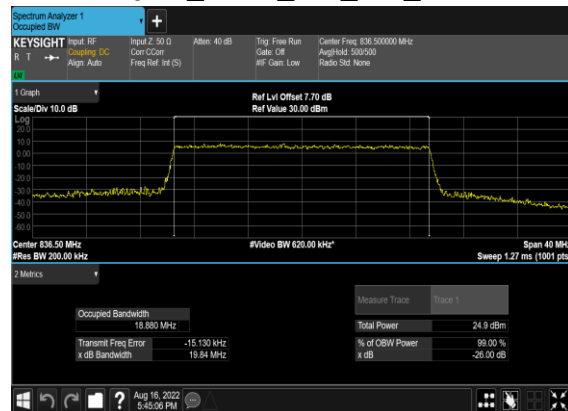
B7_N5(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B7_N5(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B7_N5(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

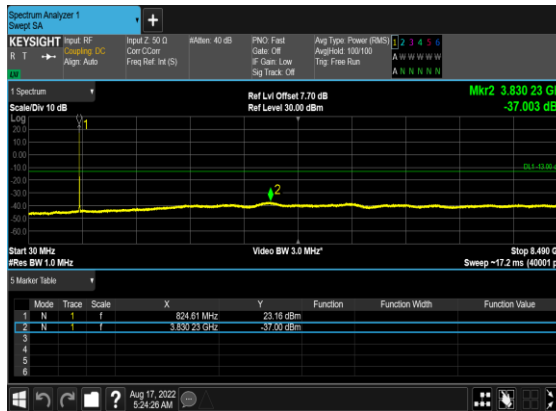


Conducted Spurious Emissions

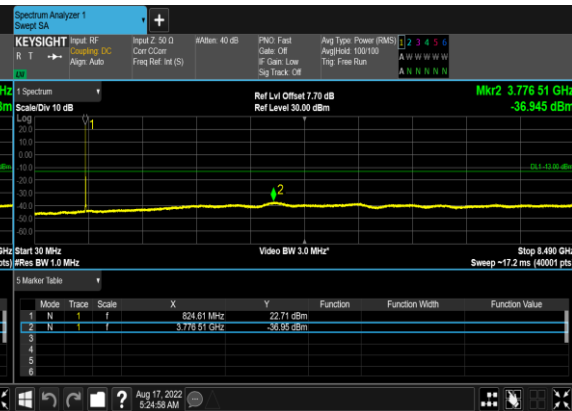
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	174300	826.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	174300	826.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	178300	846.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	178300	846.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	174800	829.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	174800	829.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	174800	829.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	174800	829.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	177800	844.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	177800	844.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

5	15	10	177800	844.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	177800	844.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	175800	834.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	175800	834.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	176800	839.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	176800	839.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

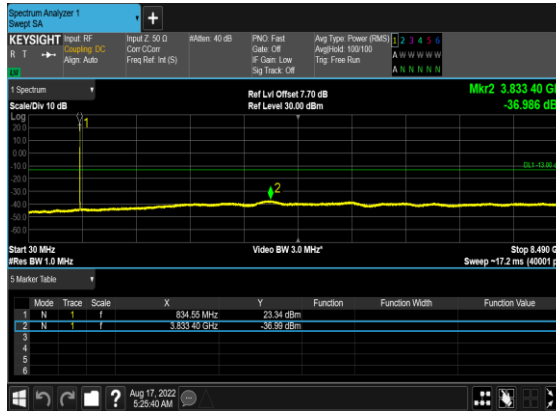
B7_N5(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_C
H



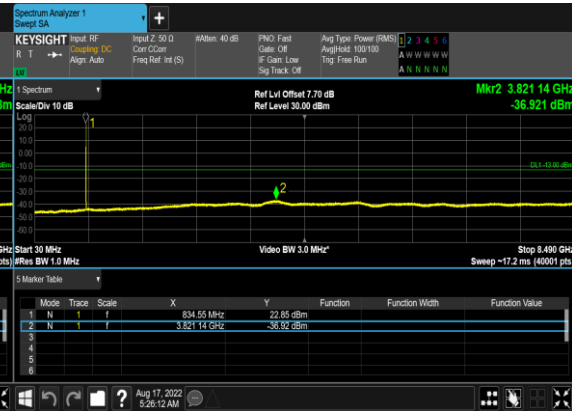
B7_N5(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_C
H



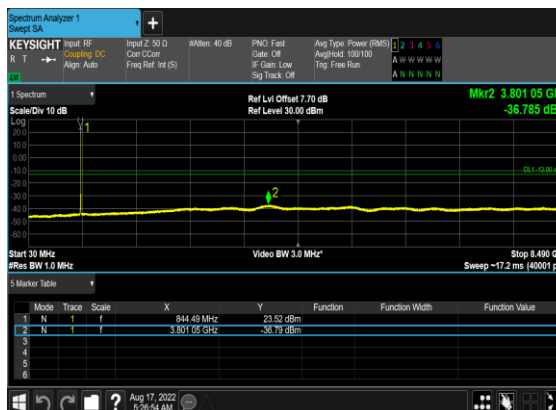
B7_N5(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



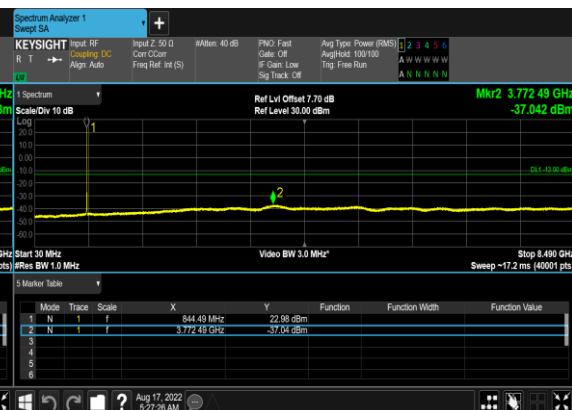
B7_N5(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N5(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_C
H



B7_N5(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_C
H



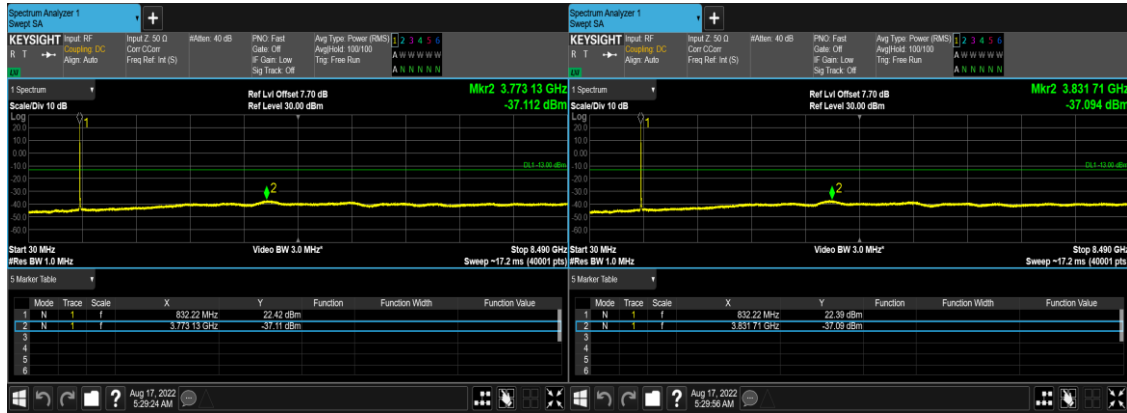
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OFDM_BPSK_Edge_1RB_Left_Low_C
H



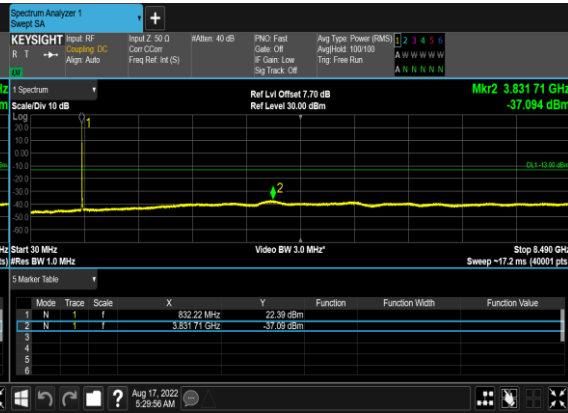
B7_N5(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_C
H



B7_N5(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



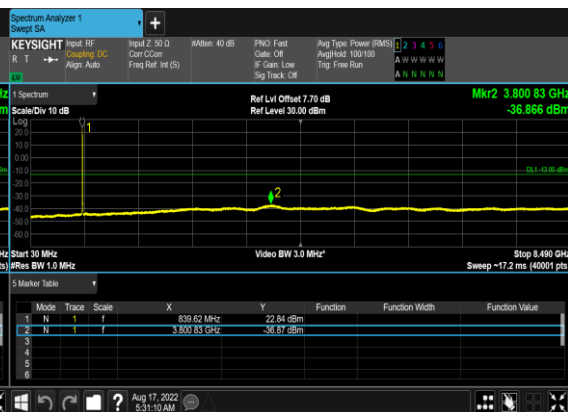
B7_N5(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N5(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_C
H



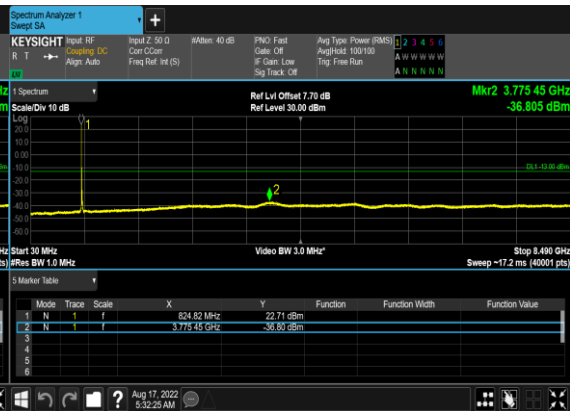
B7_N5(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_C
H



B7_N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_C
H



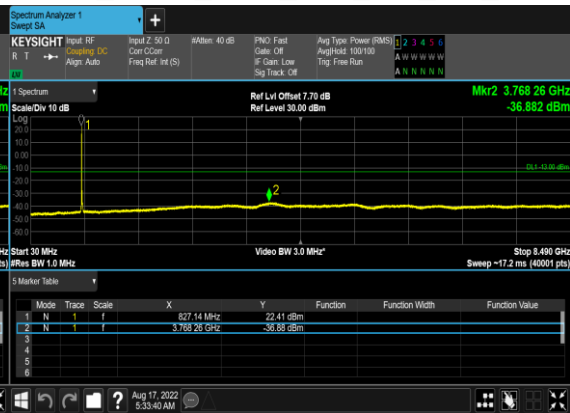
B7_N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_C
H



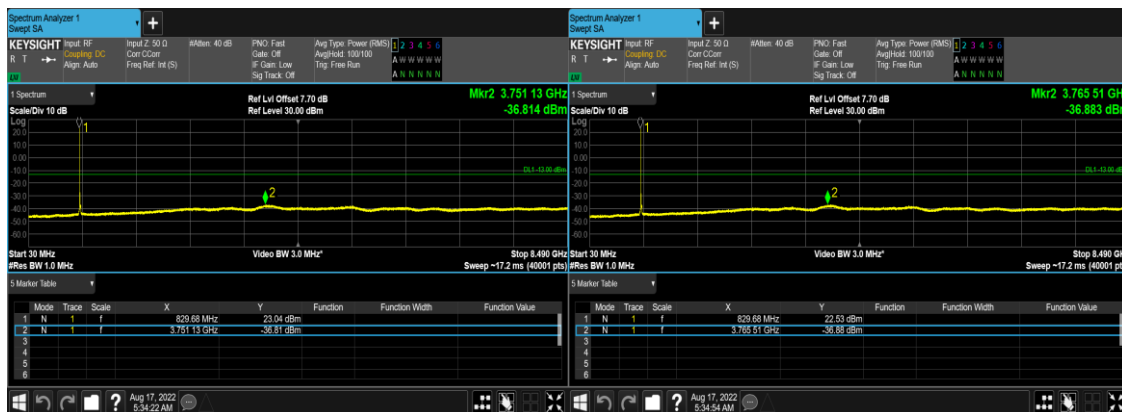
B7_N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



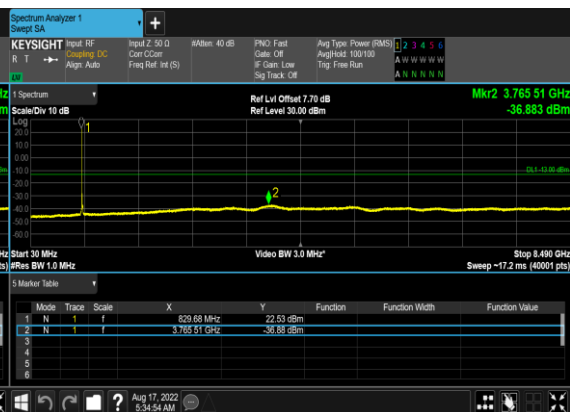
B7_N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_C
H



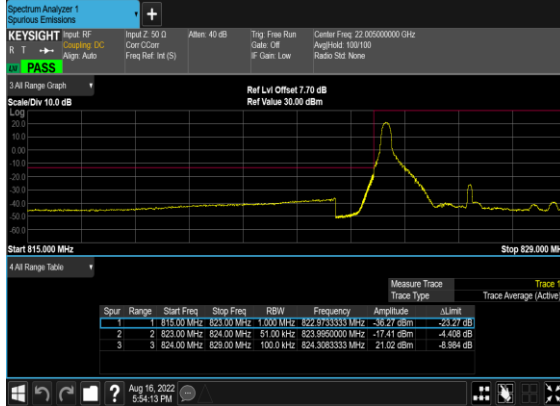
B7_N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_C
H



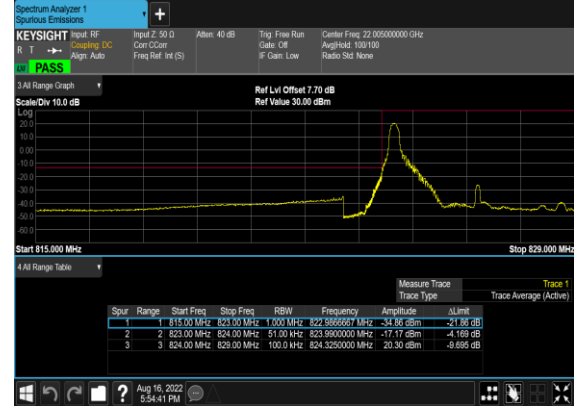
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	174300	826.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	174300	826.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
5	15	5	174300	826.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
5	15	5	178300	846.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
5	15	5	178300	846.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
5	15	5	178300	846.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
5	15	10	174800	829.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	174800	829.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	174800	829.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
5	15	10	174800	829.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
5	15	10	177800	844.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
5	15	10	177800	844.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
5	15	10	177800	844.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
5	15	10	177800	844.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
5	15	20	175800	834.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	175800	834.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
5	15	20	175800	834.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
5	15	20	176800	839.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
5	15	20	176800	839.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
5	15	20	176800	839.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

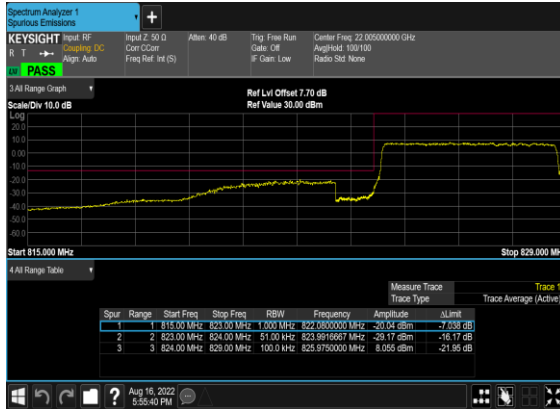
B7_N5(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B7_N5(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



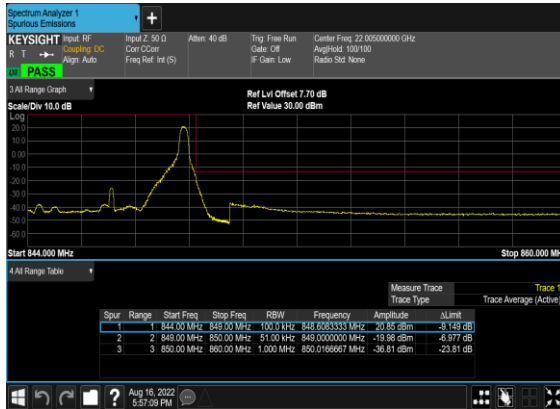
B7_N5(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



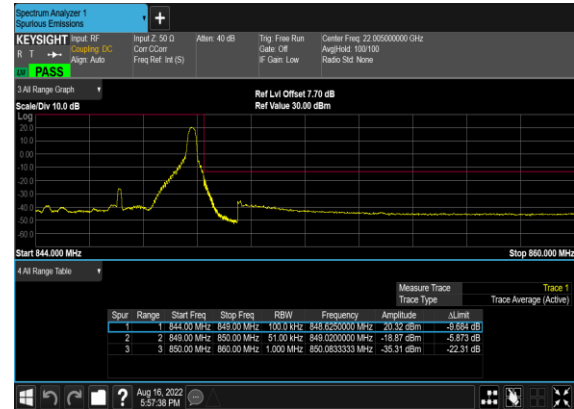
B7_N5(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



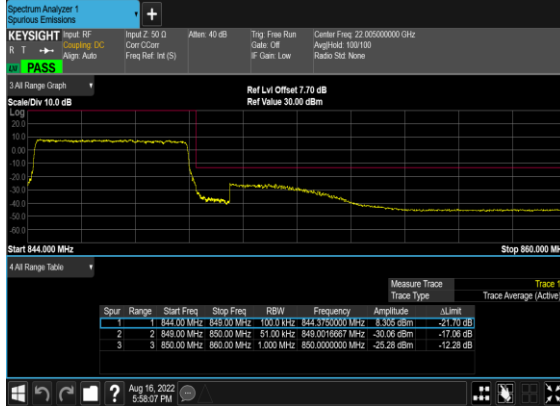
B7_N5(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



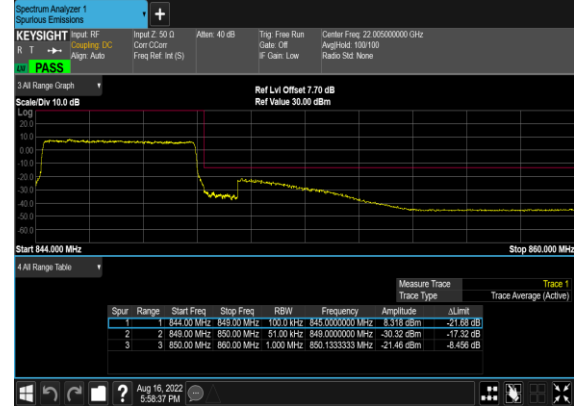
B7_N5(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



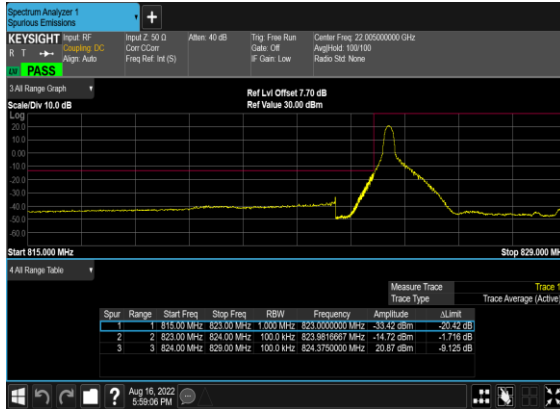
B7_N5(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



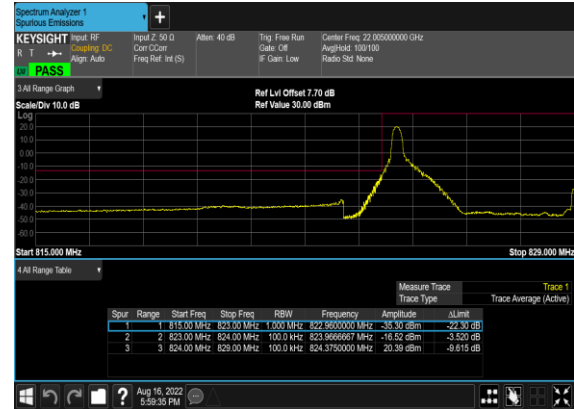
B7_N5(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



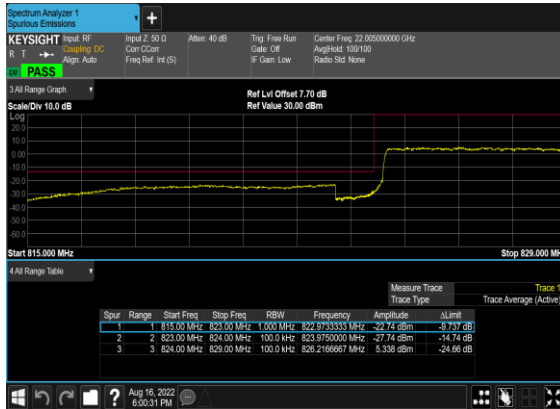
B7_N5(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



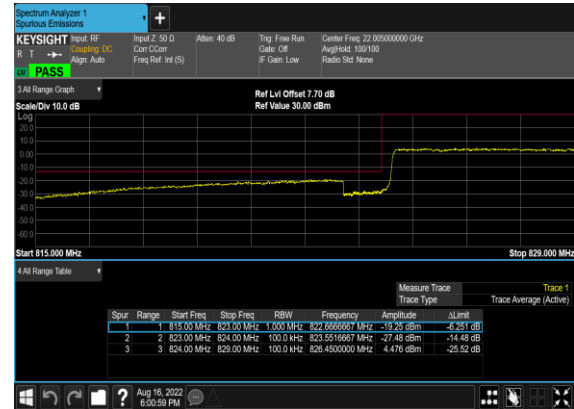
B7_N5(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



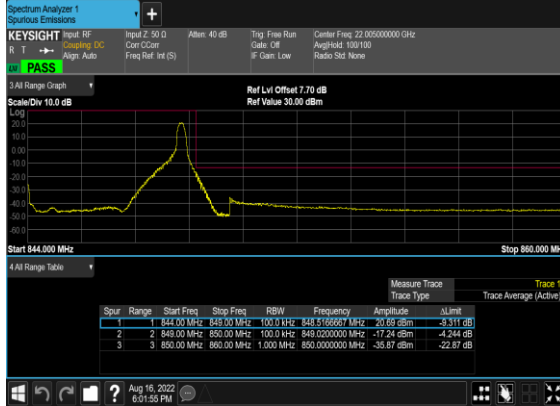
B7_N5(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



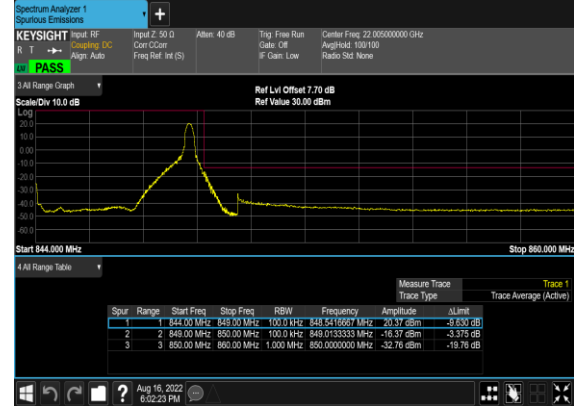
B7_N5(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



B7_N5(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



B7_N5(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N5(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



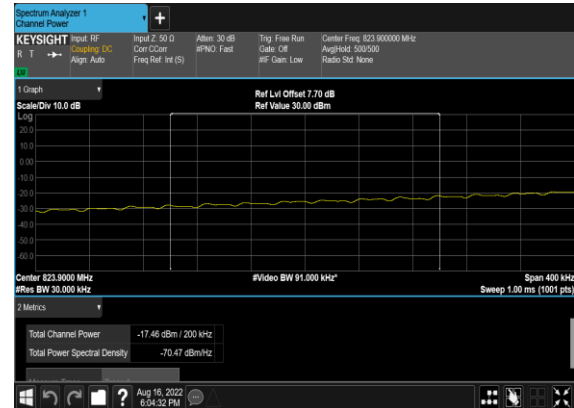
B7_N5(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



B7_N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



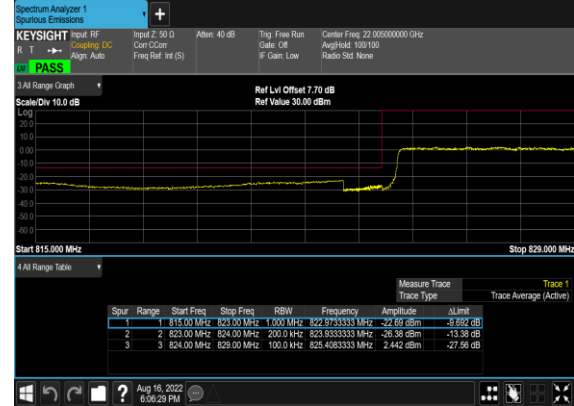
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OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



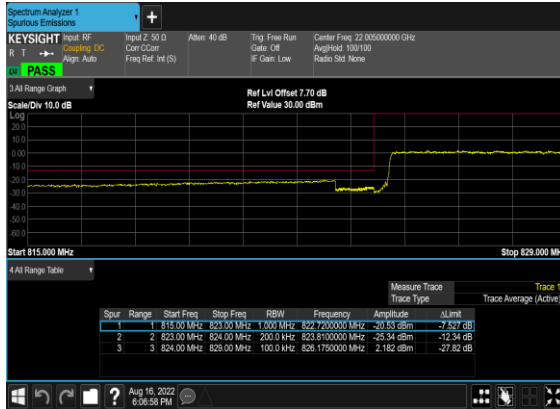
B7_N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



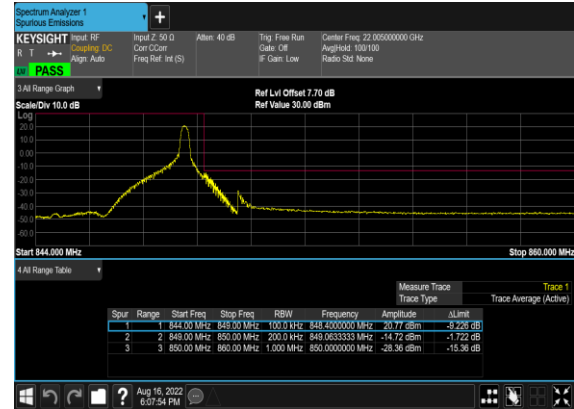
B7_N5(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



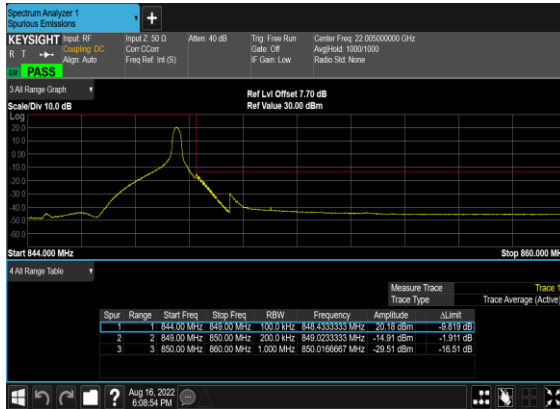
B7_N5(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



B7_N5(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



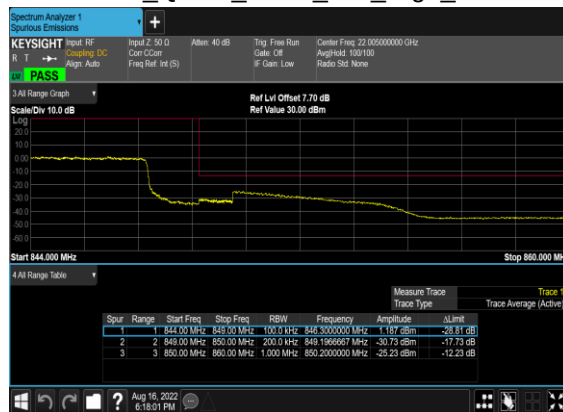
B7_N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N5(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



FR1 N41 (ANT13)

Transmitter Conducted Output Power And EIRP, (G_T-L_C)=0dBi

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
41	15	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	22.47	22.47	0.1766
41	15	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	21.32	21.32	0.1355
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.47	22.47	0.1766
41	15	10	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.36	21.36	0.1368
41	15	10	537000	2685	DFT-s-OFDM QPSK	1@1	22.63	22.63	0.1832
41	15	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	21.72	21.72	0.1486
41	15	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	22.59	22.59	0.1816
41	15	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	21.48	21.48	0.1406
41	15	15	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.69	22.69	0.1858
41	15	15	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.63	21.63	0.1455
41	15	15	536499	2682.495	DFT-s-OFDM QPSK	1@1	22.53	22.53	0.1791
41	15	15	536499	2682.495	DFT-s-OFDM 16 QAM	1@1	21.59	21.59	0.1442
41	15	20	501201	2506.005	DFT-s-OFDM QPSK	1@1	22.5	22.5	0.1778
41	15	20	501201	2506.005	DFT-s-OFDM 16 QAM	1@1	21.41	21.41	0.1384
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.58	22.58	0.1811
41	15	20	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.43	21.43	0.1390
41	15	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	22.49	22.49	0.1774
41	15	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	21.64	21.64	0.1459
41	15	30	502200	2511	DFT-s-OFDM QPSK	1@1	22.35	22.35	0.1718
41	15	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	21.26	21.26	0.1337
41	15	30	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.5	22.5	0.1778
41	15	30	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.32	21.32	0.1355
41	15	30	534999	2674.995	DFT-s-OFDM QPSK	1@1	22.09	22.09	0.1618
41	15	30	534999	2674.995	DFT-s-OFDM 16 QAM	1@1	20.99	20.99	0.1256
41	15	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	22.09	22.09	0.1618
41	15	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	21.11	21.11	0.1291
41	15	40	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.27	22.27	0.1687
41	15	40	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.25	21.25	0.1334
41	15	40	534000	2670	DFT-s-OFDM	1@1	22.14	22.14	0.1637

					QPSK				
41	15	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	21.1	21.1	0.1288
41	15	50	504201	2521.005	DFT-s-OFDM PI/2 BPSK	135@67	22.54	22.54	0.1795
41	15	50	504201	2521.005	DFT-s-OFDM PI/2 BPSK	1@1	22.36	22.36	0.1722
41	15	50	504201	2521.005	DFT-s-OFDM PI/2 BPSK	1@268	22.35	22.35	0.1718
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	135@67	22.54	22.54	0.1795
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	1@1	22.4	22.4	0.1738
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	1@268	22.39	22.39	0.1734
41	15	50	504201	2521.005	DFT-s-OFDM 16 QAM	135@67	21.56	21.56	0.1432
41	15	50	504201	2521.005	DFT-s-OFDM 16 QAM	1@1	21.29	21.29	0.1346
41	15	50	504201	2521.005	DFT-s-OFDM 16 QAM	1@268	21.27	21.27	0.1340
41	15	50	504201	2521.005	DFT-s-OFDM 64 QAM	135@67	20.18	20.18	0.1042
41	15	50	504201	2521.005	DFT-s-OFDM 64 QAM	1@1	20.19	20.19	0.1045
41	15	50	504201	2521.005	DFT-s-OFDM 64 QAM	1@268	20.18	20.18	0.1042
41	15	50	504201	2521.005	DFT-s-OFDM 256 QAM	135@67	18.16	18.16	0.0655
41	15	50	504201	2521.005	DFT-s-OFDM 256 QAM	1@1	18	18	0.0631
41	15	50	504201	2521.005	DFT-s-OFDM 256 QAM	1@268	18.05	18.05	0.0638
41	15	50	504201	2521.005	CP-OFDM QPSK	135@67	21.18	21.18	0.1312
41	15	50	504201	2521.005	CP-OFDM QPSK	1@1	20.99	20.99	0.1256
41	15	50	504201	2521.005	CP-OFDM QPSK	1@268	20.96	20.96	0.1247
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	135@67	22.64	22.64	0.1837
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	22.48	22.48	0.1770
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@268	22.79	22.79	0.1901
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	135@67	22.66	22.66	0.1845
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.57	22.57	0.1807
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	1@268	22.94	22.94	0.1968
41	15	50	518601	2593.005	DFT-s-OFDM 16 QAM	135@67	21.71	21.71	0.1483
41	15	50	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.43	21.43	0.1390
41	15	50	518601	2593.005	DFT-s-OFDM 16 QAM	1@268	21.82	21.82	0.1521
41	15	50	518601	2593.005	DFT-s-OFDM 64 QAM	135@67	20.3	20.3	0.1072
41	15	50	518601	2593.005	DFT-s-OFDM 64 QAM	1@1	20.33	20.33	0.1079
41	15	50	518601	2593.005	DFT-s-OFDM 64 QAM	1@268	20.75	20.75	0.1189
41	15	50	518601	2593.005	DFT-s-OFDM 256 QAM	135@67	18.31	18.31	0.0678
41	15	50	518601	2593.005	DFT-s-OFDM 256 QAM	1@1	18.14	18.14	0.0652
41	15	50	518601	2593.005	DFT-s-OFDM 256	1@26	18.53	18.53	0.0713

					QAM	8			
41	15	50	518601	2593.005	CP-OFDM QPSK	135@ 67	21.34	21.34	0.1361
41	15	50	518601	2593.005	CP-OFDM QPSK	1@1	21.12	21.12	0.1294
41	15	50	518601	2593.005	CP-OFDM QPSK	1@26 8	21.43	21.43	0.1390
41	15	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	135@ 67	22.62	22.62	0.1828
41	15	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	22.53	22.53	0.1791
41	15	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@26 8	22.97	22.97	0.1982
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	135@ 67	22.65	22.65	0.1841
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	22.66	22.66	0.1845
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	1@26 8	23.08	23.08	0.2032
41	15	50	532998	2664.99	DFT-s-OFDM 16 QAM	135@ 67	21.73	21.73	0.1489
41	15	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	21.56	21.56	0.1432
41	15	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@26 8	22.11	22.11	0.1626
41	15	50	532998	2664.99	DFT-s-OFDM 64 QAM	135@ 67	20.31	20.31	0.1074
41	15	50	532998	2664.99	DFT-s-OFDM 64 QAM	1@1	20.46	20.46	0.1112
41	15	50	532998	2664.99	DFT-s-OFDM 64 QAM	1@26 8	20.82	20.82	0.1208
41	15	50	532998	2664.99	DFT-s-OFDM 256 QAM	135@ 67	18.3	18.3	0.0676
41	15	50	532998	2664.99	DFT-s-OFDM 256 QAM	1@1	18.3	18.3	0.0676
41	15	50	532998	2664.99	DFT-s-OFDM 256 QAM	1@26 8	18.66	18.66	0.0735
41	15	50	532998	2664.99	CP-OFDM QPSK	135@ 67	21.31	21.31	0.1352
41	15	50	532998	2664.99	CP-OFDM QPSK	1@1	21.18	21.18	0.1312
41	15	50	532998	2664.99	CP-OFDM QPSK	1@26 8	21.57	21.57	0.1435

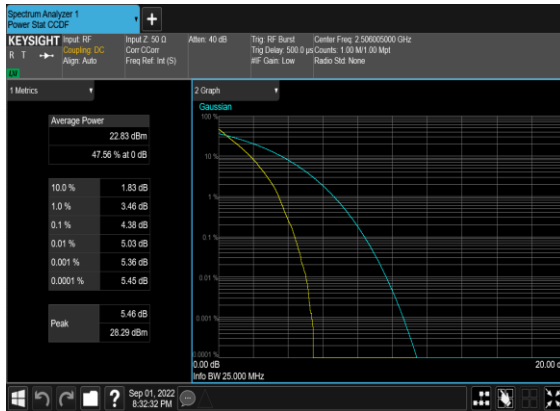
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0031	PASS	NV
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0064	PASS	LV
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0031	PASS	HV
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0034	PASS	-30°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0028	PASS	-20°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0021	PASS	-10°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0041	PASS	0°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0048	PASS	10°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0031	PASS	20°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0049	PASS	30°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0032	PASS	40°C
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	0.0061	PASS	50°C

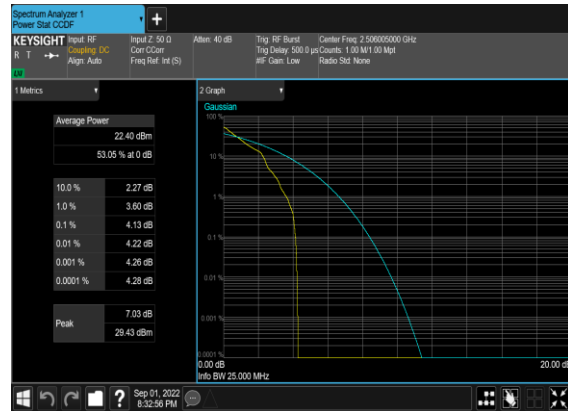
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
41	15	20	501201	2506.005	DFT-s-OFDM PI/2 BPSK	100@0	4.38	13	PASS
41	15	20	501201	2506.005	DFT-s-OFDM PI/2 BPSK	1@0	4.13	13	PASS
41	15	20	501201	2506.005	DFT-s-OFDM QPSK	100@0	5.53	13	PASS
41	15	20	501201	2506.005	DFT-s-OFDM QPSK	1@0	5.08	13	PASS
41	15	20	518601	2593.005	DFT-s-OFDM PI/2 BPSK	100@0	4.29	13	PASS
41	15	20	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@0	4.2	13	PASS
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	100@0	5.32	13	PASS
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	1@0	4.57	13	PASS
41	15	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	100@0	4.07	13	PASS
41	15	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@0	4.02	13	PASS
41	15	20	535998	2679.99	DFT-s-OFDM QPSK	100@0	5.01	13	PASS
41	15	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	4.76	13	PASS

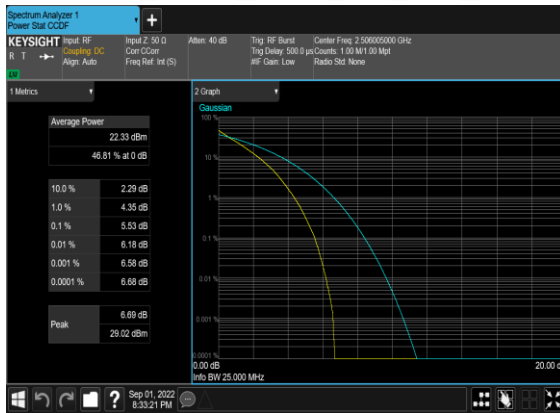
N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



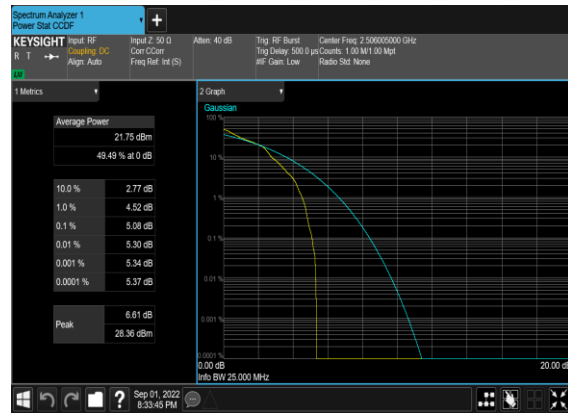
N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



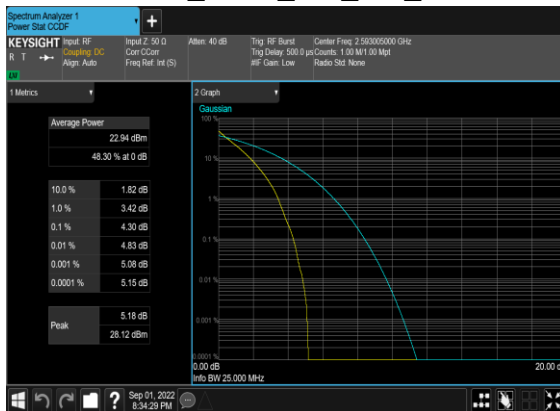
N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



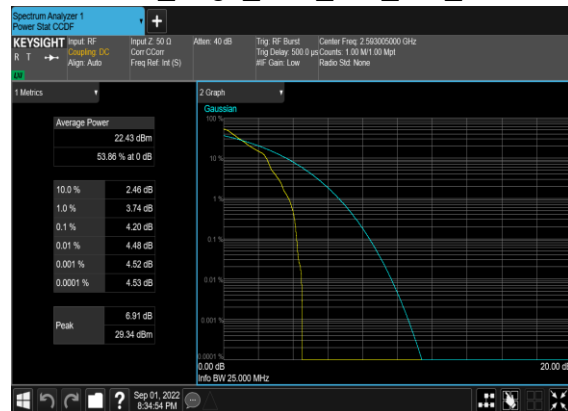
N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



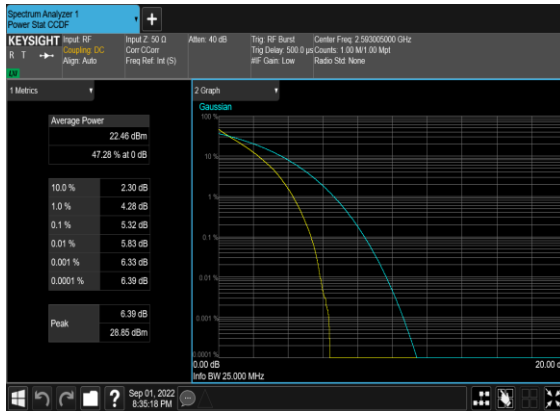
N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



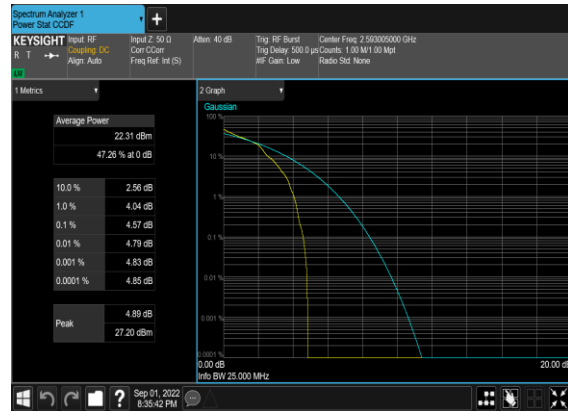
N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



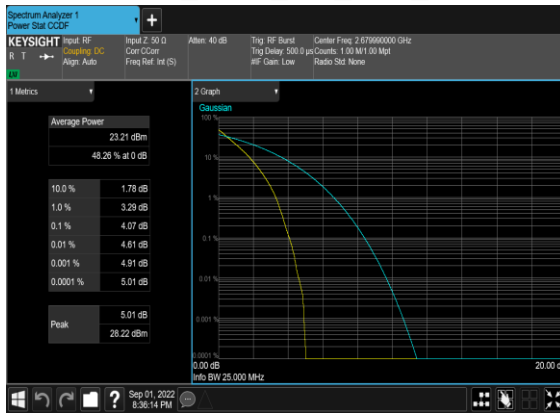
N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



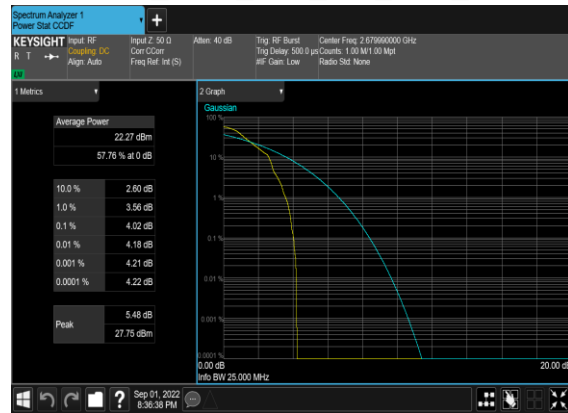
N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



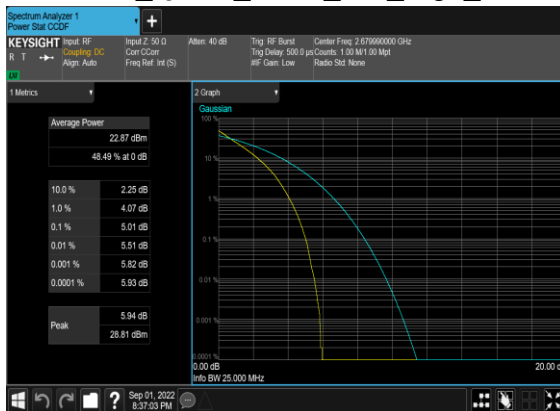
N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

