



FCC RF Test Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.
EQUIPMENT : 5G Sub-6 GHz LGA Module
BRAND NAME : Quectel
MODEL NAME : RG500L-LA
FCC ID : XMR2023RG500LLA
STANDARD : 47 CFR Part 2, 22
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Jun. 08, 2023 ~ Jun. 13, 2023

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

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**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
FG2D0201-01C	Rev. 01	Initial issue of report	Jul. 10, 2023



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		
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	-
3.8	§2.1051 §22.917(a)	Conducted Spurious Emission (5G NR n5)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm	PASS	-
4.4	§2.1053 §22.917(a)	Radiated Spurious Emission (5G NR n5)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 46.60 dB at 2480.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Sub-6 GHz LGA Module
Brand Name	Quectel
Model Name	RG500L-LA
FCC ID	XMR2023RG500LLA
IMEI Code	Conducted: 863221060013834 Radiation: 863221060013578
HW Version	R1.0
SW Version	RG500LLA00AAR01A05E8_OCPU
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n5 : 824 MHz ~ 849 MHz
Rx Frequency	5G NR n5 : 869 MHz ~ 894 MHz
Bandwidth	n5: 5MHz / 10MHz / 15MHz / 20MHz
SCS	15kHz
Antenna Gain	Ant7:-10.68
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
2. 5G NR support SA mode and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode.
3. 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 Conducted power and Emission Designator

5G NR n5		PI/2 BPSK/QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.2138	4M47G7D	0.1928	4M47W7D
10	829.0 ~ 844.0	0.2104	9M26G7D	0.1905	9M30W7D
15	831.5 ~ 841.5	0.2065	14M1G7D	0.1884	14M1W7D
20	834.0 ~ 839.0	0.2213	18M9G7D	0.1986	19M1W7D

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

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



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
- ♦ 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.

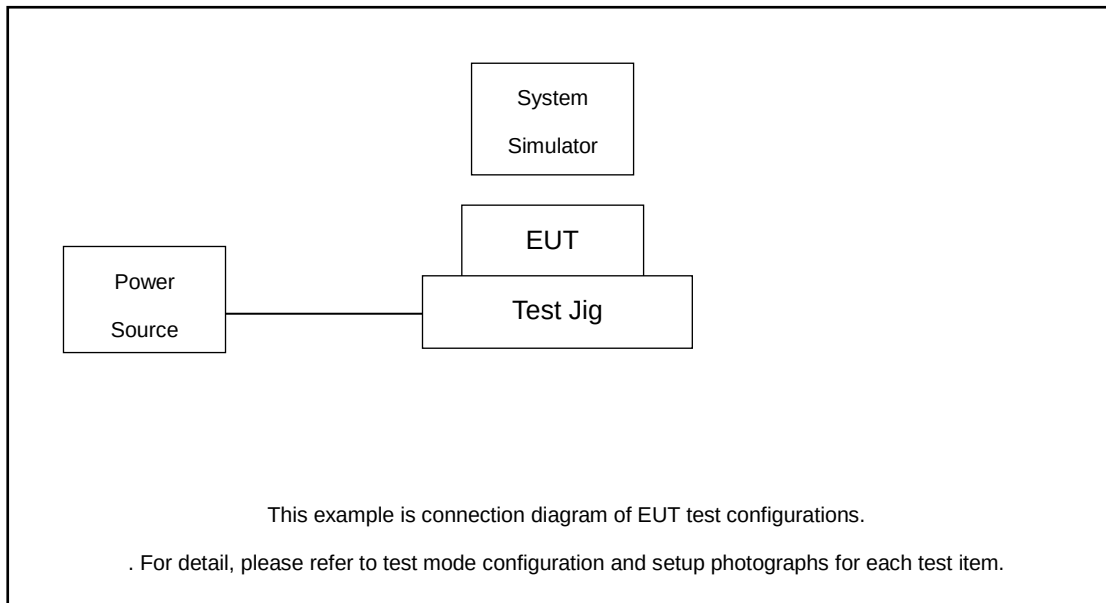
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)					Modulation					RB #		Test Channel		
		5	10	15	20	25	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
Peak-to-Average Ratio	n5				v		v	v				v	v		v	
26dB and 99% Bandwidth	n5	v	v	v	v			v	v	v	v		v		v	
Conducted Band Edge	n5	v	v		v		v	v				v	v	v		v
Conducted Spurious Emission	n5	v	v		v		v	v				v		v	v	v
Frequency Stability	n5	v						v					v		v	
E.R.P	n5	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n5	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 = 3.8V ; Low Voltage =3.3V. ; High Voltage =4.3V															

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.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Test Jig	Quectel	N/A	N/A	N/A	N/A
4.	Adapter	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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 20dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.5 + 20 = 24.5 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

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

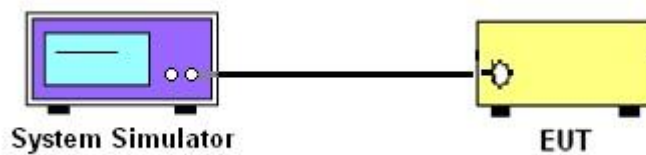
3 Conducted Test Items

3.1 Measuring Instruments

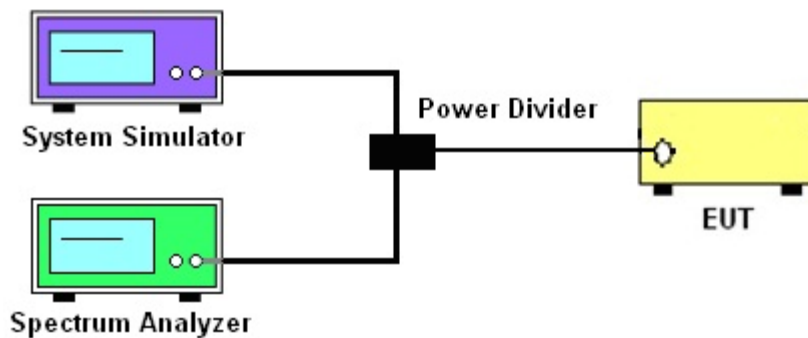
See list of measuring instruments of this test report.

3.2 Test Setup

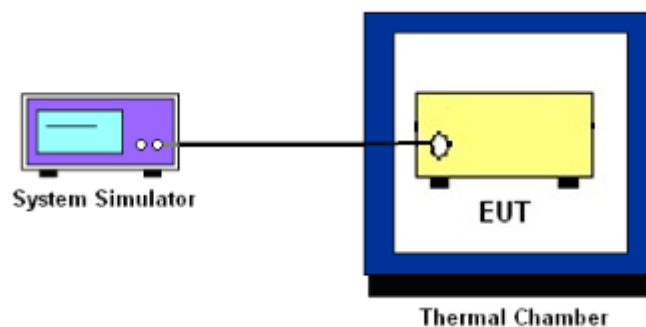
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP

3.4.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

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

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.

3.7.2 Test Procedures

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

Example:

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

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

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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

3.8.2 Test Procedures

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

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

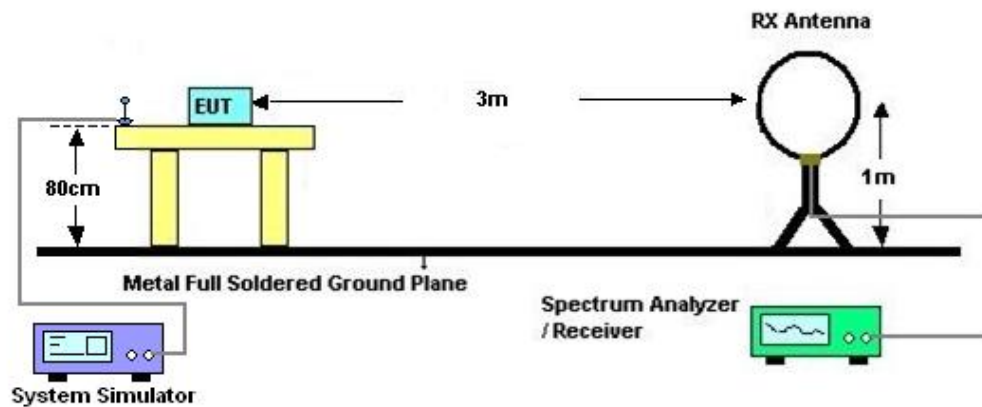
4 Radiated Test Items

4.1 Measuring Instruments

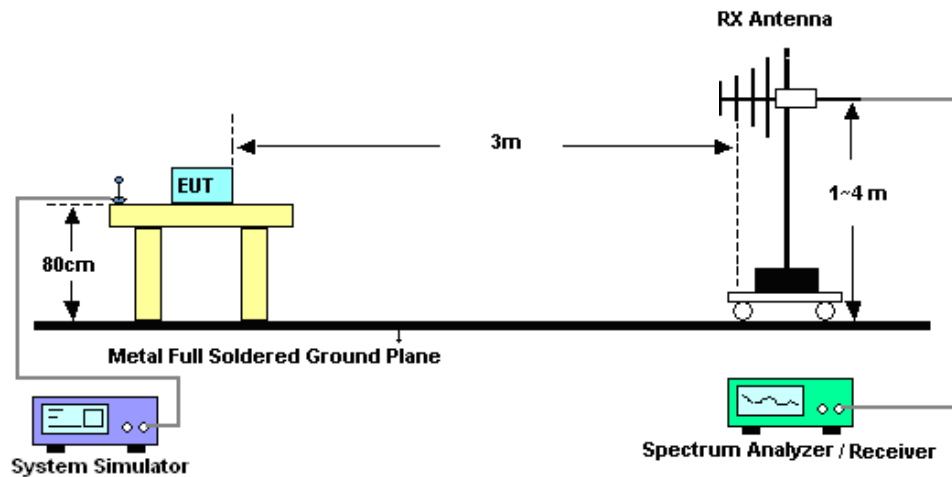
See list of measuring instruments of this test report.

4.2 Test Setup

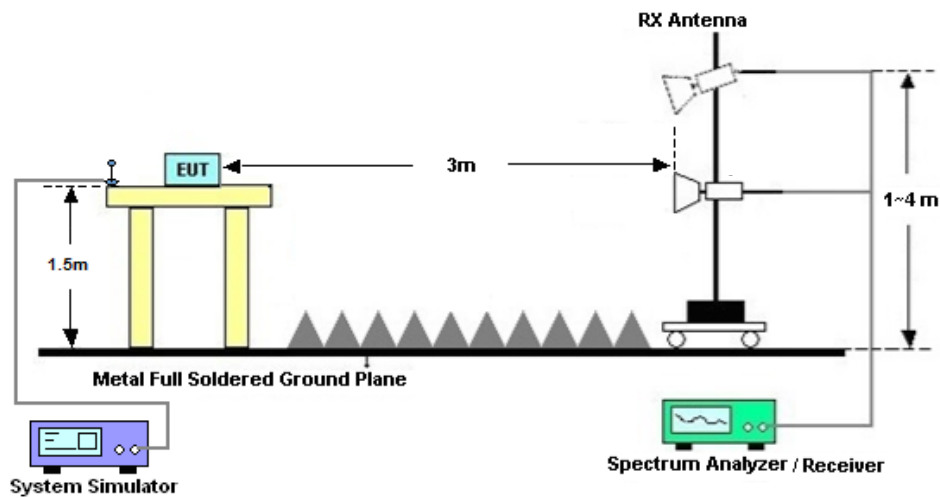
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

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

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

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

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

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Jun. 13, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jun. 13, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Jun. 13, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Jun. 08, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Jun. 08, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 23, 2023	Jun. 08, 2023	May 22, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Jun. 08, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Jun. 08, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	May 23, 2023	Jun. 08, 2023	May 22, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Jun. 08, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	Jun. 08, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Jun. 08, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 08, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 08, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 08, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 0.46 dB
Conducted Emissions	± 2.26 dB
Occupied Channel Bandwidth	± 0.1 %

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.82 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.56 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.54 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

FR1 N5 (ANT7)

Transmitter Conducted Output Power and ERP, ($G_T - L_C$)=-10.68dB

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	ERP(W)
5	15	5	165300	826.5	DFT-s-OFDM PI/2 BPSK	1@1	23.11	0.0107
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@1	23.29	0.0111
5	15	5	165300	826.5	DFT-s-OFDM 16 QAM	1@1	22.85	0.0100
5	15	5	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.15	0.0108
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@1	23.3	0.0111
5	15	5	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.8	0.0099
5	15	5	169300	846.5	DFT-s-OFDM PI/2 BPSK	1@1	23.1	0.0106
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@1	23.19	0.0109
5	15	5	169300	846.5	DFT-s-OFDM 16 QAM	1@1	22.84	0.0100
5	15	10	165800	829	DFT-s-OFDM PI/2 BPSK	1@1	22.98	0.0104
5	15	10	165800	829	DFT-s-OFDM QPSK	1@1	23.03	0.0105
5	15	10	165800	829	DFT-s-OFDM 16 QAM	1@1	22.8	0.0099
5	15	10	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.14	0.0107
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@1	23.23	0.0110
5	15	10	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.79	0.0099
5	15	10	168800	844	DFT-s-OFDM PI/2 BPSK	1@1	23.03	0.0105
5	15	10	168800	844	DFT-s-OFDM QPSK	1@1	23.18	0.0108
5	15	10	168800	844	DFT-s-OFDM 16 QAM	1@1	22.78	0.0099
5	15	15	166300	831.5	DFT-s-OFDM PI/2 BPSK	1@1	23.01	0.0104
5	15	15	166300	831.5	DFT-s-OFDM QPSK	1@1	23.13	0.0107
5	15	15	166300	831.5	DFT-s-OFDM 16 QAM	1@1	22.74	0.0098
5	15	15	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.07	0.0106
5	15	15	167300	836.5	DFT-s-OFDM QPSK	1@1	23.15	0.0108
5	15	15	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.75	0.0098
5	15	15	168300	841.5	DFT-s-OFDM PI/2 BPSK	1@1	23.01	0.0104
5	15	15	168300	841.5	DFT-s-OFDM QPSK	1@1	23.02	0.0104
5	15	15	168300	841.5	DFT-s-OFDM 16 QAM	1@1	22.64	0.0096
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	50@25	23.19	0.0109
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@1	23.08	0.0106
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@104	23.16	0.0108
5	15	20	166800	834	DFT-s-OFDM QPSK	50@25	23.17	0.0108
5	15	20	166800	834	DFT-s-OFDM QPSK	1@1	23.26	0.0110
5	15	20	166800	834	DFT-s-OFDM QPSK	1@104	23.1	0.0106
5	15	20	166800	834	DFT-s-OFDM 16 QAM	50@25	22.2	0.0086
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@1	22.84	0.0100

5	15	20	166800	834	DFT-s-OFDM 16 QAM 1@104	22.91	0.0102
5	15	20	166800	834	DFT-s-OFDM 64 QAM 50@25	20.67	0.0061
5	15	20	166800	834	DFT-s-OFDM 64 QAM 1@1	20.52	0.0059
5	15	20	166800	834	DFT-s-OFDM 64 QAM 1@104	20.61	0.0060
5	15	20	166800	834	DFT-s-OFDM 256 QAM 50@25	18.62	0.0038
5	15	20	166800	834	DFT-s-OFDM 256 QAM 1@1	18.53	0.0037
5	15	20	166800	834	DFT-s-OFDM 256 QAM 1@104	18.59	0.0038
5	15	20	166800	834	CP-OFDM QPSK 53@26	21.63	0.0076
5	15	20	166800	834	CP-OFDM QPSK 1@1	21.59	0.0075
5	15	20	166800	834	CP-OFDM QPSK 1@104	21.67	0.0077
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK 50@25	23.17	0.0108
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK 1@1	23.45	0.0115
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK 1@104	23.09	0.0106
5	15	20	167300	836.5	DFT-s-OFDM QPSK 50@25	23.21	0.0109
5	15	20	167300	836.5	DFT-s-OFDM QPSK 1@1	23.41	0.0114
5	15	20	167300	836.5	DFT-s-OFDM QPSK 1@104	23.19	0.0109
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM 50@25	22.19	0.0086
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM 1@1	22.98	0.0104
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM 1@104	22.88	0.0101
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM 50@25	20.68	0.0061
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM 1@1	20.66	0.0061
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM 1@104	20.57	0.0059
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM 50@25	18.67	0.0038
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM 1@1	18.55	0.0037
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM 1@104	18.41	0.0036
5	15	20	167300	836.5	CP-OFDM QPSK 53@26	21.65	0.0076
5	15	20	167300	836.5	CP-OFDM QPSK 1@1	21.63	0.0076
5	15	20	167300	836.5	CP-OFDM QPSK 1@104	21.67	0.0077
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK 50@25	23.22	0.0109
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK 1@1	23.17	0.0108
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK 1@104	23.14	0.0107
5	15	20	167800	839	DFT-s-OFDM QPSK 50@25	23.28	0.0111
5	15	20	167800	839	DFT-s-OFDM QPSK 1@1	23.26	0.0110
5	15	20	167800	839	DFT-s-OFDM QPSK 1@104	23.24	0.0110
5	15	20	167800	839	DFT-s-OFDM 16 QAM 50@25	22.27	0.0088
5	15	20	167800	839	DFT-s-OFDM 16 QAM 1@1	22.86	0.0101
5	15	20	167800	839	DFT-s-OFDM 16 QAM 1@104	22.82	0.0100
5	15	20	167800	839	DFT-s-OFDM 64 QAM 50@25	20.7	0.0061
5	15	20	167800	839	DFT-s-OFDM 64 QAM 1@1	20.61	0.0060
5	15	20	167800	839	DFT-s-OFDM 64 QAM 1@104	20.6	0.0060
5	15	20	167800	839	DFT-s-OFDM 256 QAM 50@25	18.75	0.0039
5	15	20	167800	839	DFT-s-OFDM 256 QAM 1@1	18.47	0.0037
5	15	20	167800	839	DFT-s-OFDM 256 QAM 1@104	18.47	0.0037
5	15	20	167800	839	CP-OFDM QPSK 53@26	21.68	0.0077
5	15	20	167800	839	CP-OFDM QPSK 1@1	21.62	0.0076
5	15	20	167800	839	CP-OFDM QPSK 1@104	21.66	0.0076

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0041	PASS	NV
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0038	PASS	LV
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0022	PASS	HV
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0017	PASS	-30°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0028	PASS	-20°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	-0.0015	PASS	-10°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0026	PASS	0°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0012	PASS	10°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0034	PASS	20°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0019	PASS	30°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	-0.0028	PASS	40°C
5	15	5	167300	836.5	DFT-s-OFDM QPSK	25@0	0.0042	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	4.12	13	PASS
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@0	3.94	13	PASS
5	15	20	167300	836.5	DFT-s-OFDM QPSK	100@0	5.31	13	PASS
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@0	4.63	13	PASS

N5(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N5(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



N5(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



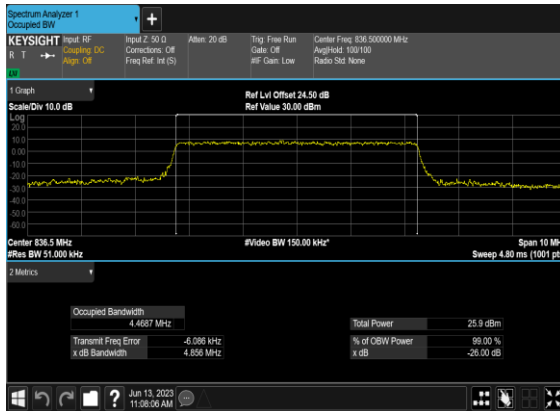
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



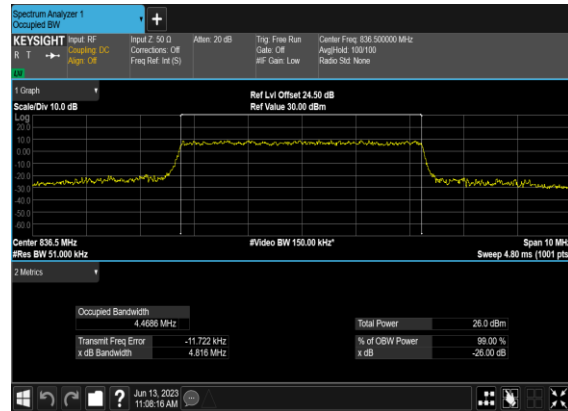
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
5	15	5	167300	836.5	CP-OFDM QPSK	25@0	4.4687	4.856
5	15	5	167300	836.5	CP-OFDM 16 QAM	25@0	4.4686	4.816
5	15	5	167300	836.5	CP-OFDM 64 QAM	25@0	4.4674	4.805
5	15	5	167300	836.5	CP-OFDM 256 QAM	25@0	4.4615	4.841
5	15	10	167300	836.5	CP-OFDM QPSK	52@0	9.2551	9.796
5	15	10	167300	836.5	CP-OFDM 16 QAM	52@0	9.298	9.727
5	15	10	167300	836.5	CP-OFDM 64 QAM	52@0	9.267	9.82
5	15	10	167300	836.5	CP-OFDM 256 QAM	52@0	9.267	9.962
5	15	15	167300	836.5	CP-OFDM QPSK	79@0	14.074	14.76
5	15	15	167300	836.5	CP-OFDM 16 QAM	79@0	14.097	14.7
5	15	15	167300	836.5	CP-OFDM 64 QAM	79@0	14.064	14.67
5	15	15	167300	836.5	CP-OFDM 256 QAM	79@0	14.094	14.73
5	15	20	167300	836.5	CP-OFDM QPSK	106@0	18.868	19.67
5	15	20	167300	836.5	CP-OFDM 16 QAM	106@0	19.088	19.59
5	15	20	167300	836.5	CP-OFDM 64 QAM	106@0	18.923	19.73
5	15	20	167300	836.5	CP-OFDM 256 QAM	106@0	18.898	19.67

N5(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



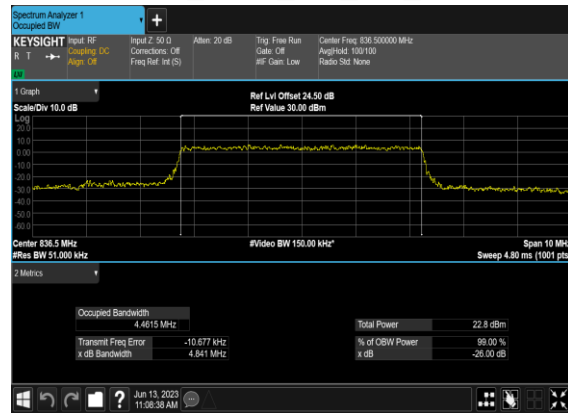
N5(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



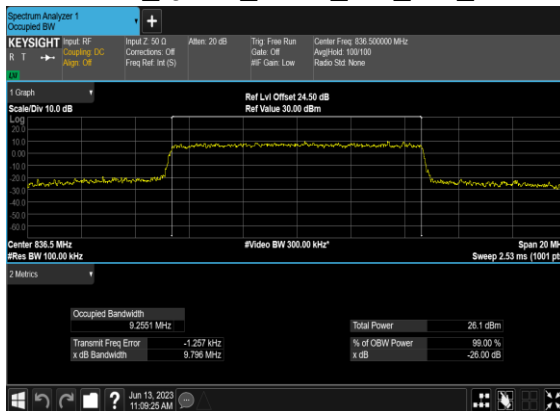
N5(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



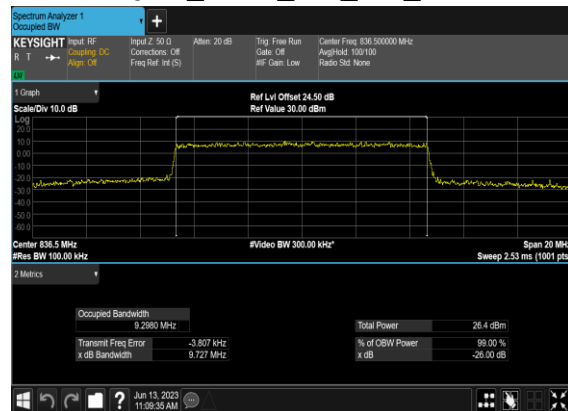
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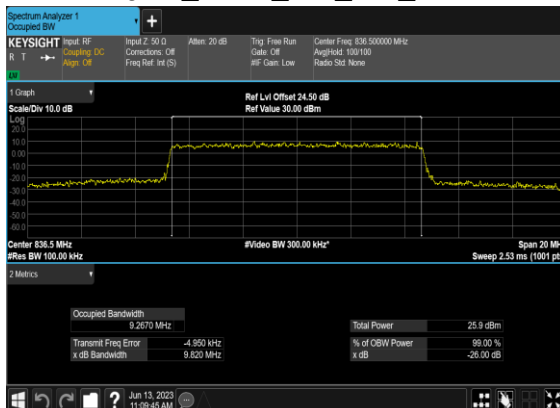
N5(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



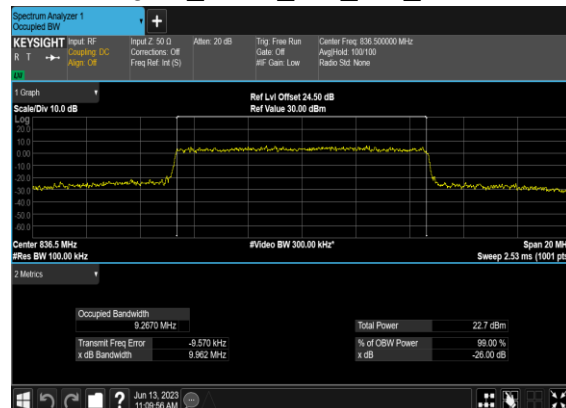
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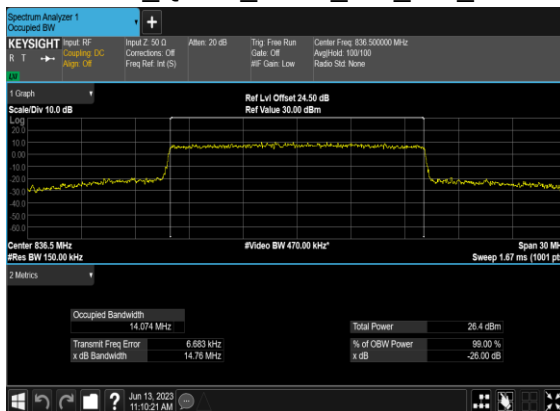
N5(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



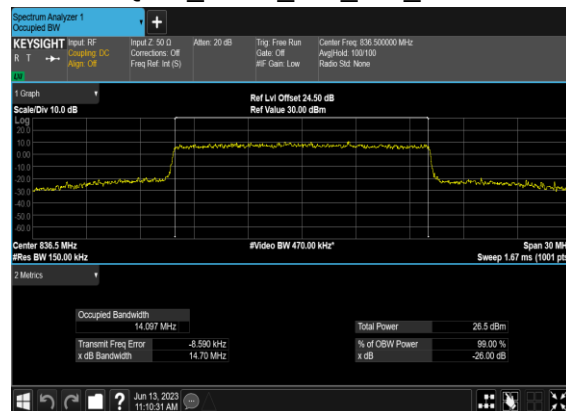
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QAM_Outer_Full_Mid_CH



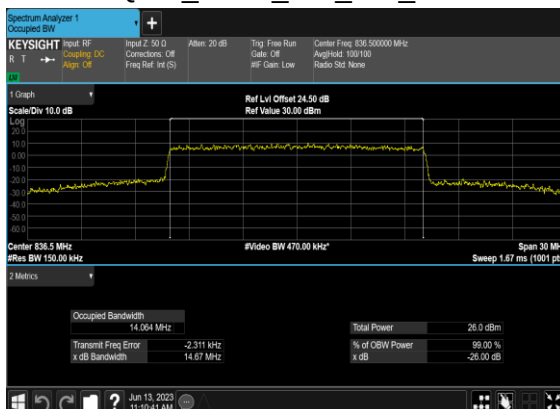
N5(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N5(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



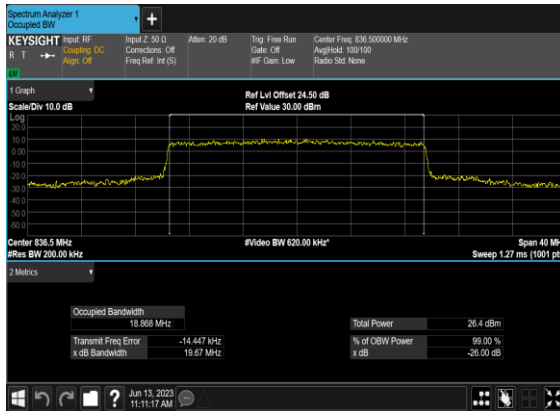
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QAM_Outer_Full_Mid_CH



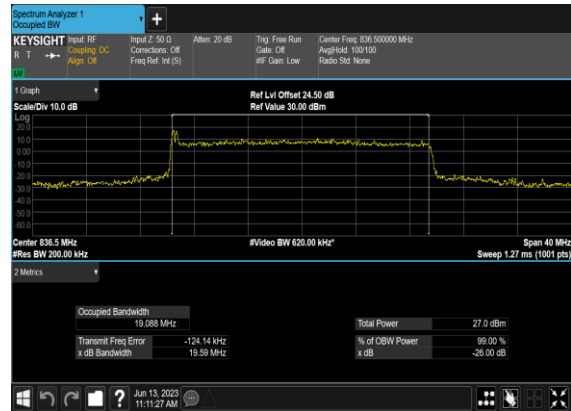
N5(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



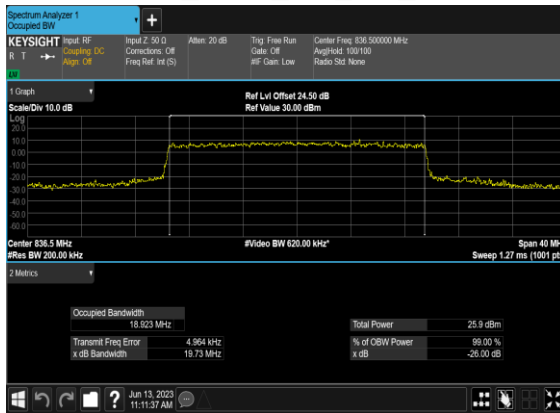
N5(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



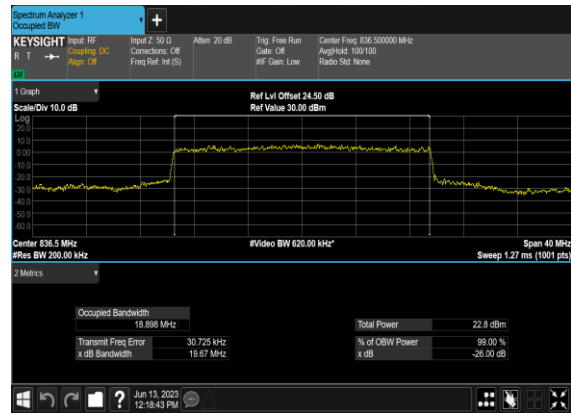
N5(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N5(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N5(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

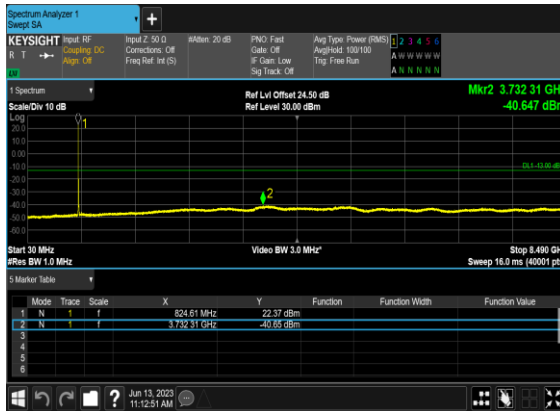


Conducted Spurious Emissions

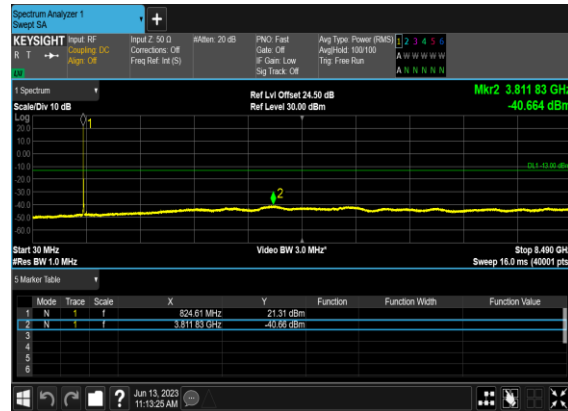
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	165300	826.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	165300	826.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	5	169300	846.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	165800	829.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	165800	829.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	10	168800	844.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM QPSK	1@0	see graph	---

5	15	10	168800	844.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	166800	834.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	166800	834.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	167300	836.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM BPSK	1@0	see graph	---
5	15	20	167800	839.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM QPSK	1@0	see graph	---
5	15	20	167800	839.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

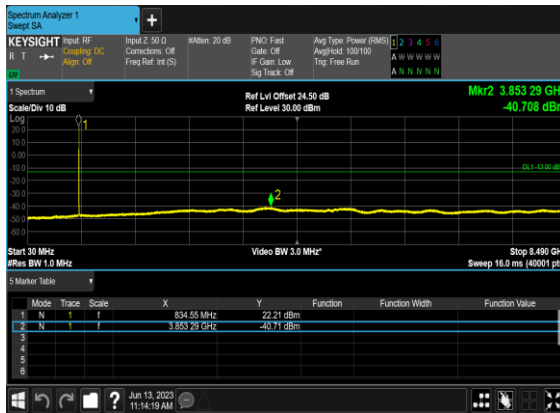
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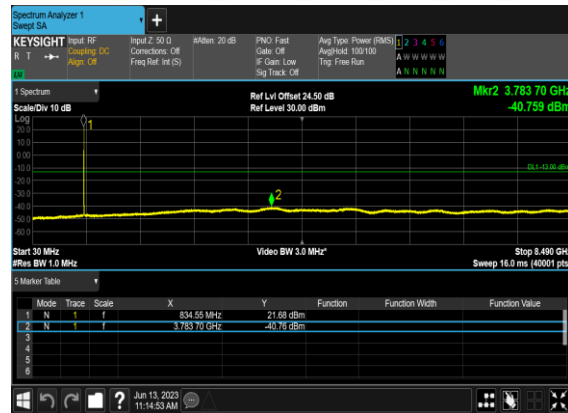
N5(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



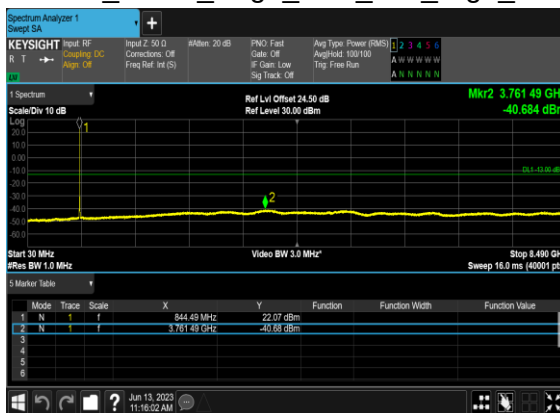
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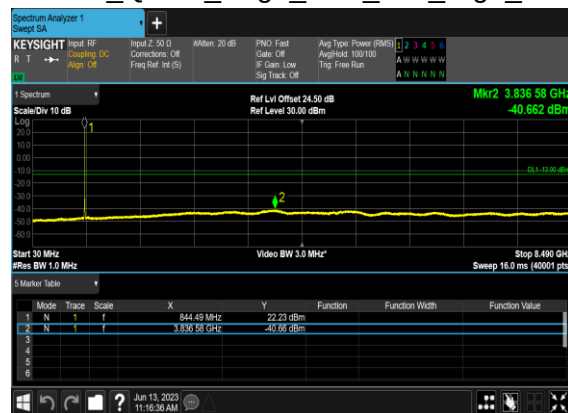
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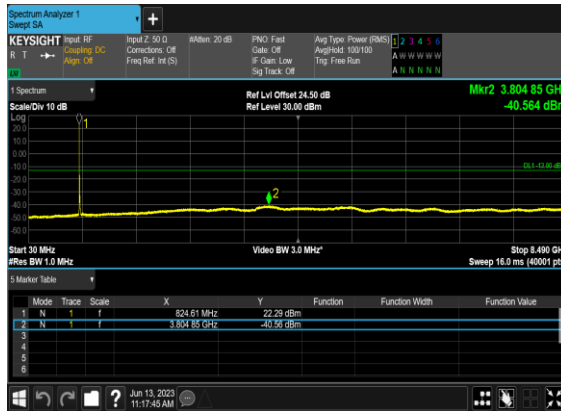
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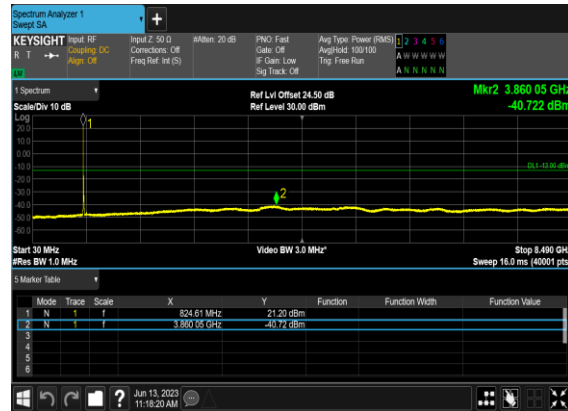
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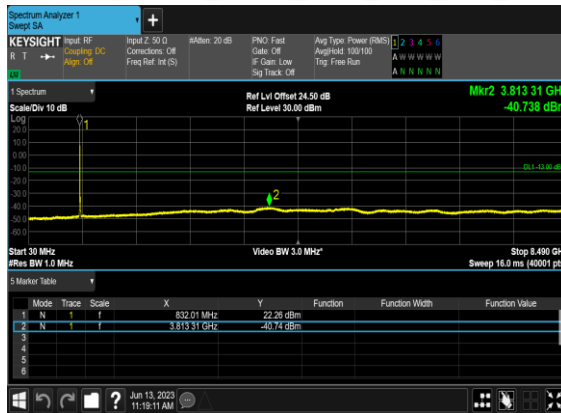
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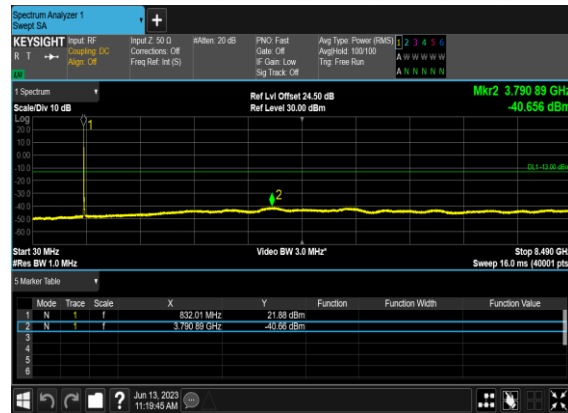
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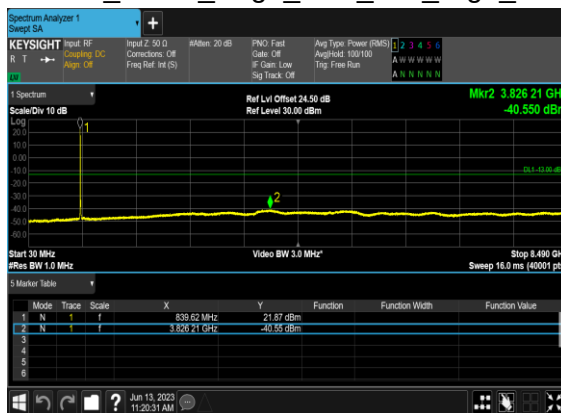
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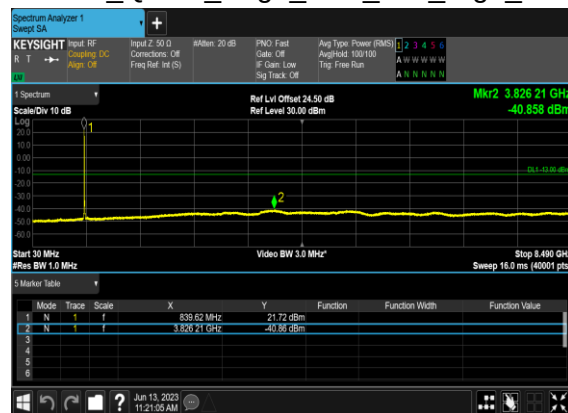
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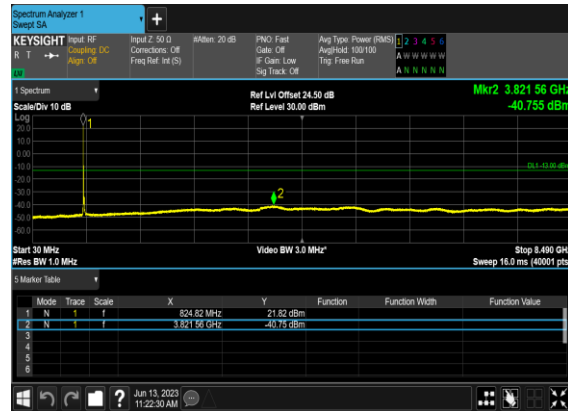
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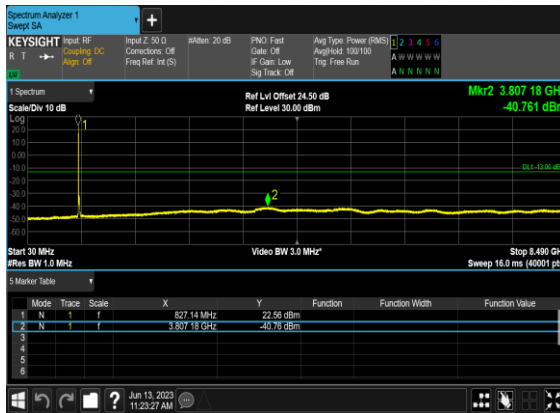
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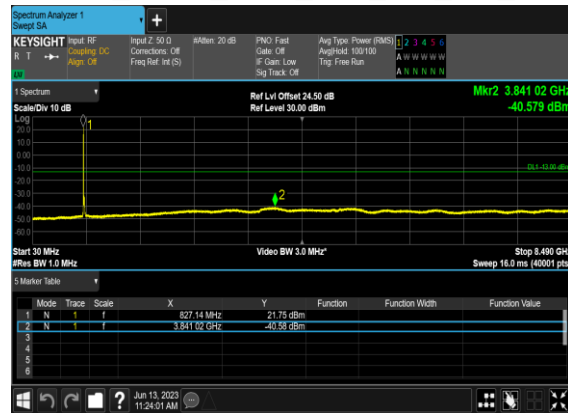
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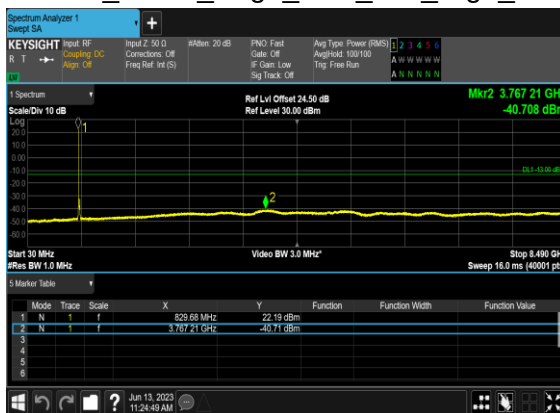
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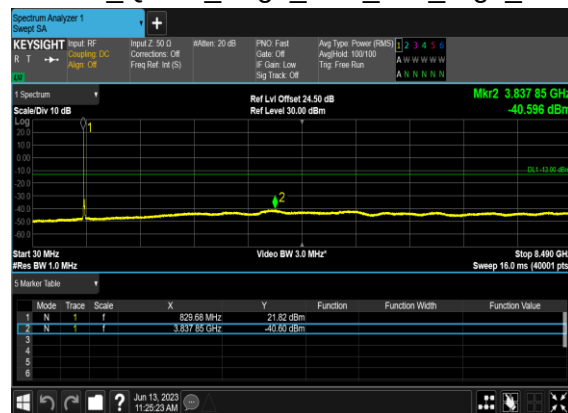
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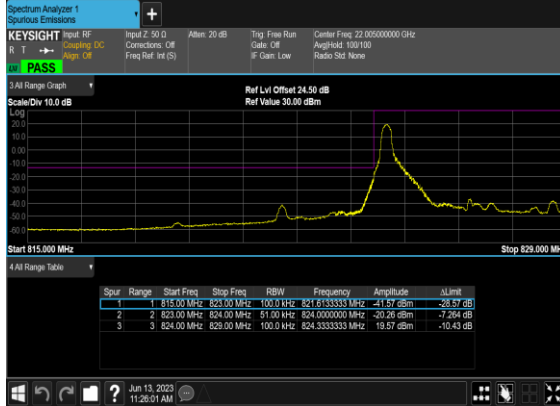
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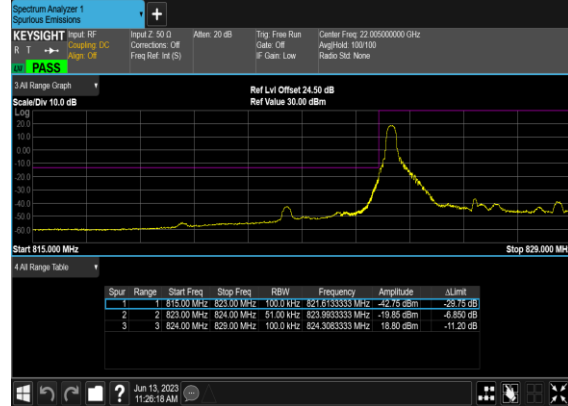
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	165300	826.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	5	165300	826.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
5	15	5	165300	826.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
5	15	5	169300	846.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
5	15	10	165800	829.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
5	15	10	168800	844.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
5	15	20	166800	834.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
5	15	20	167800	839.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

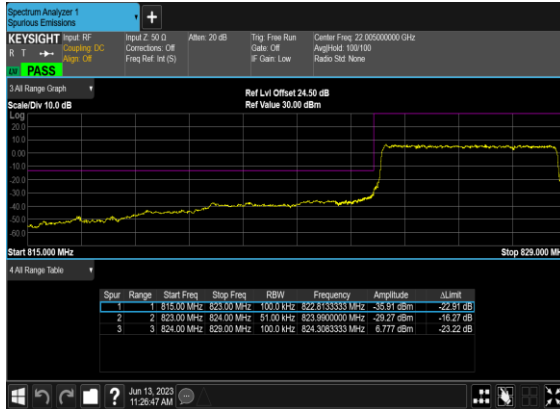
N5(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



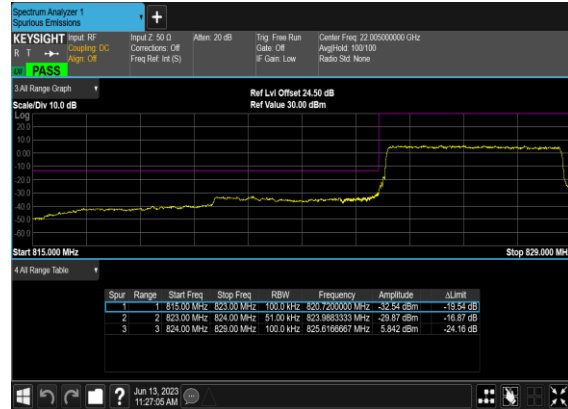
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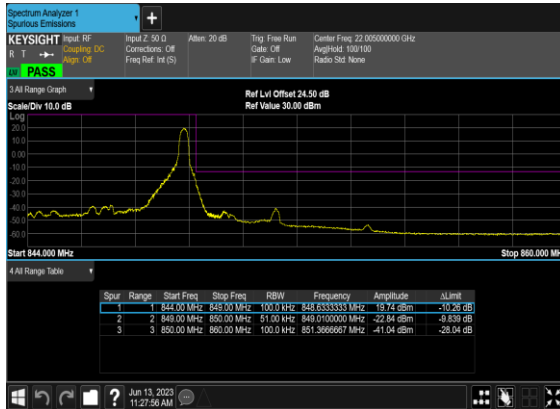
N5(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



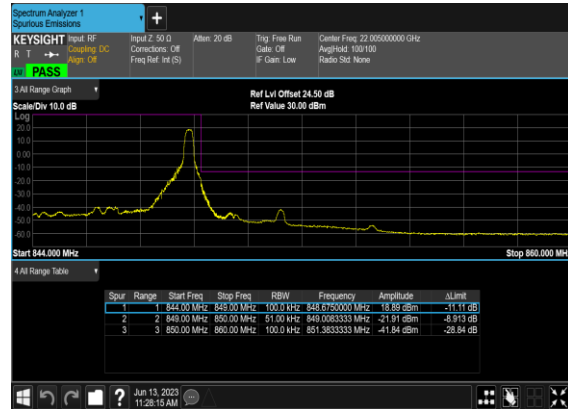
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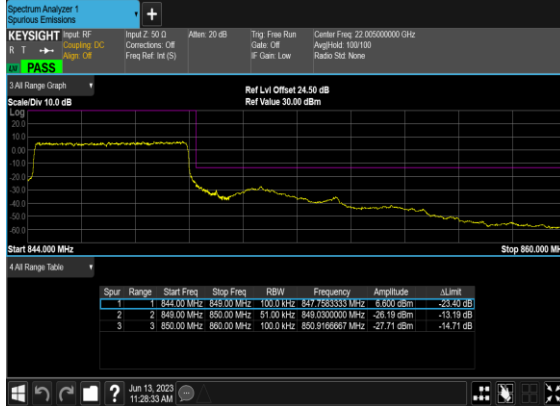
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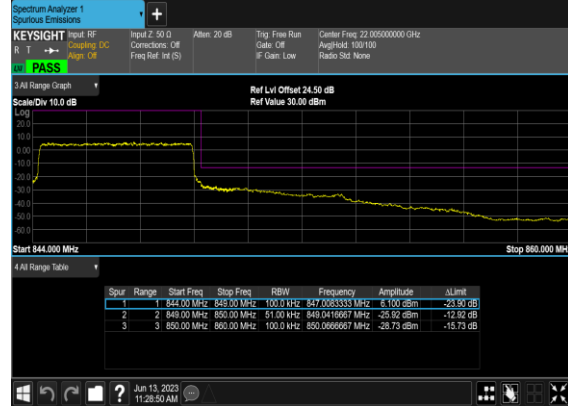
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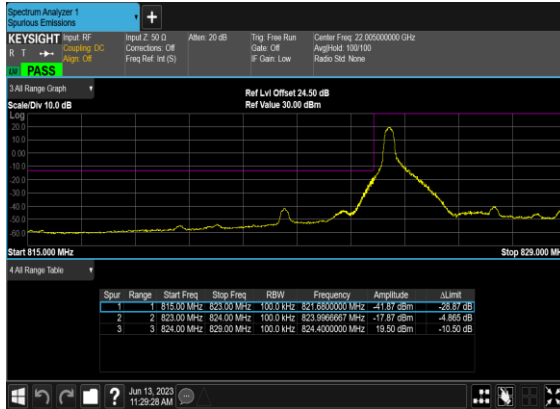
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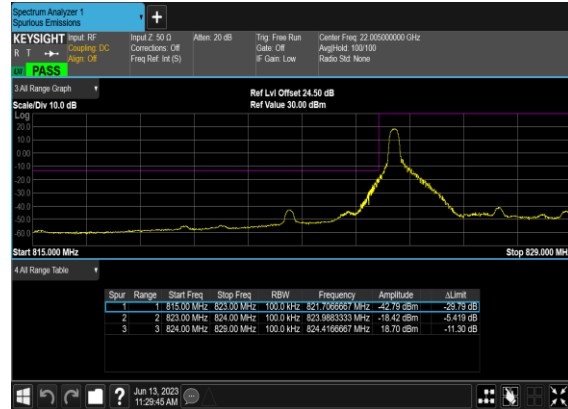
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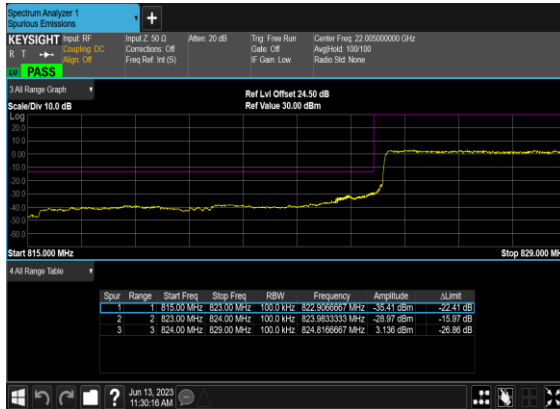
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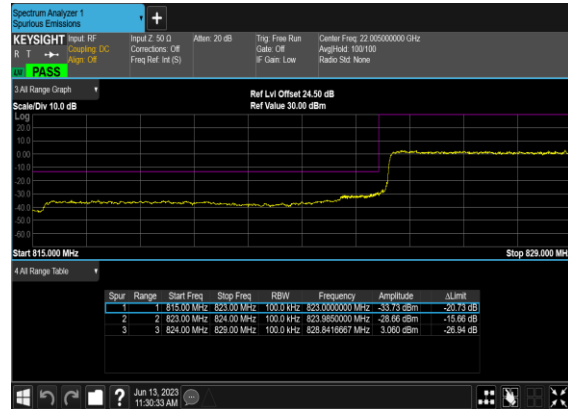
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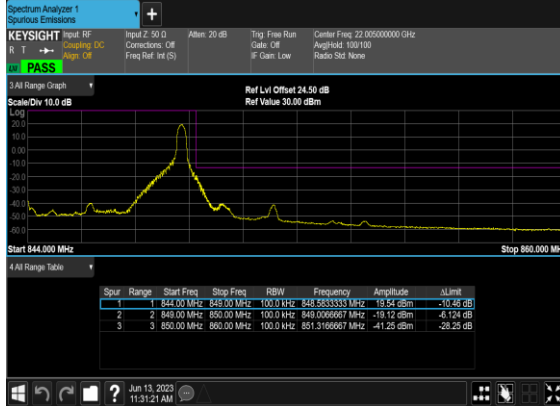
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OFDM_BPSK_Outer_Full_Low_CH



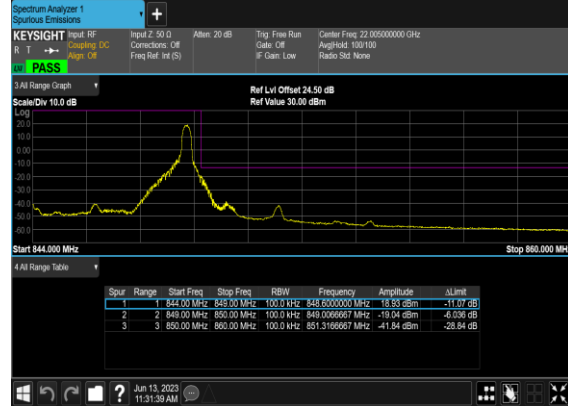
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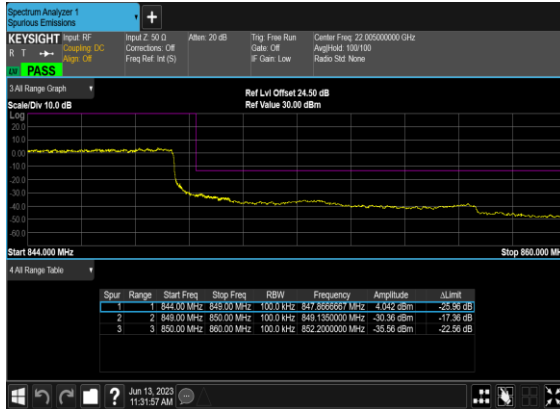
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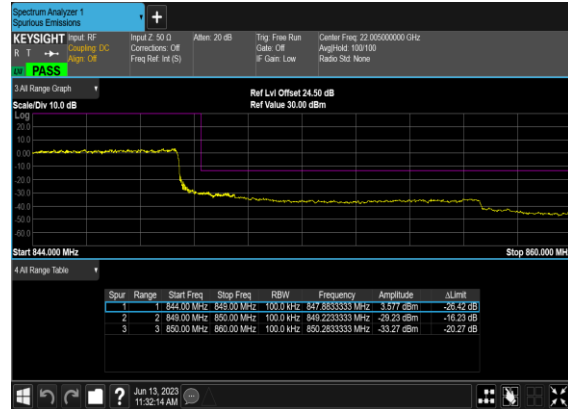
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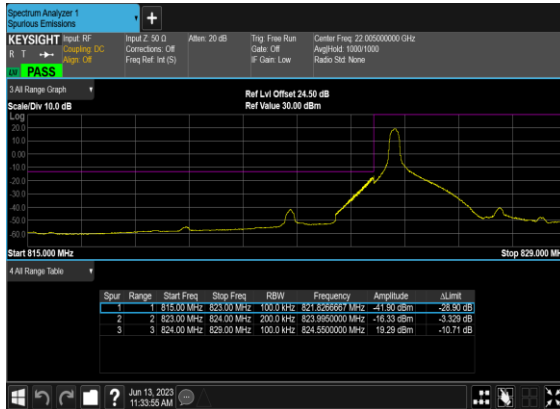
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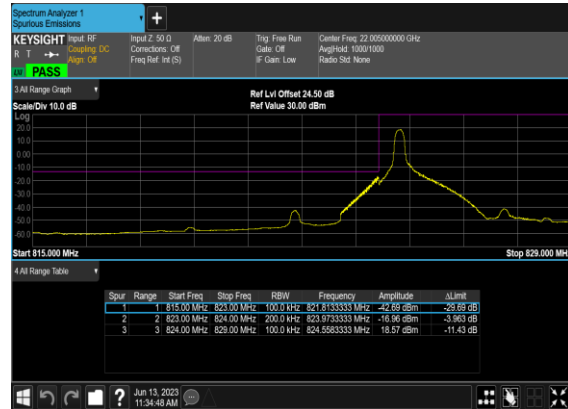
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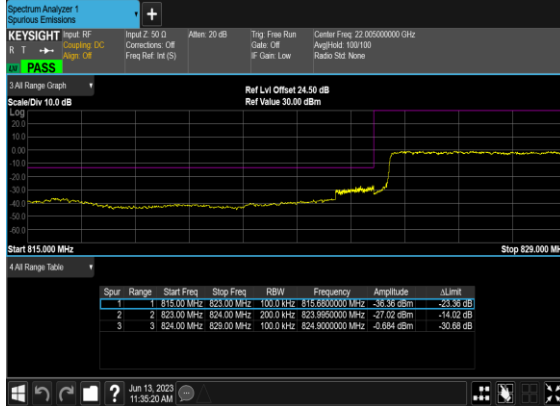
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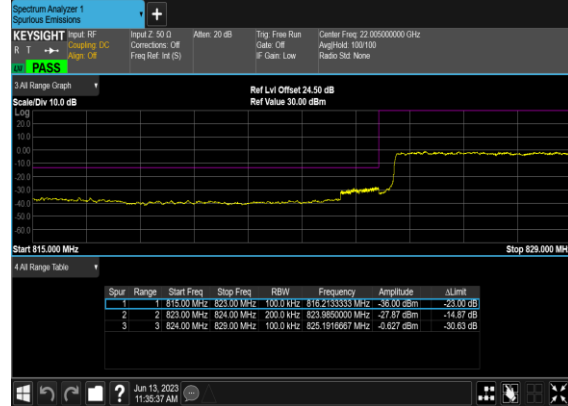
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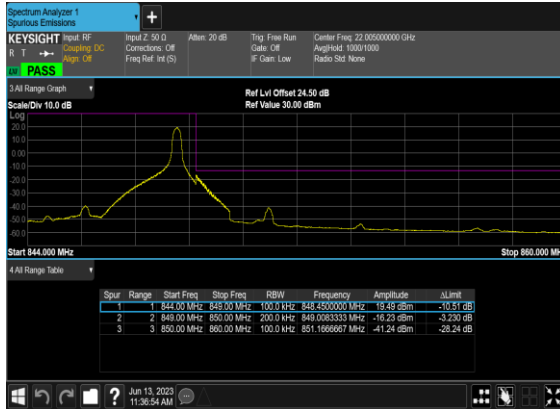
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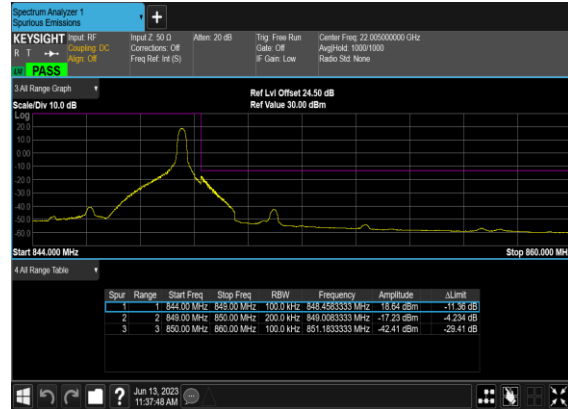
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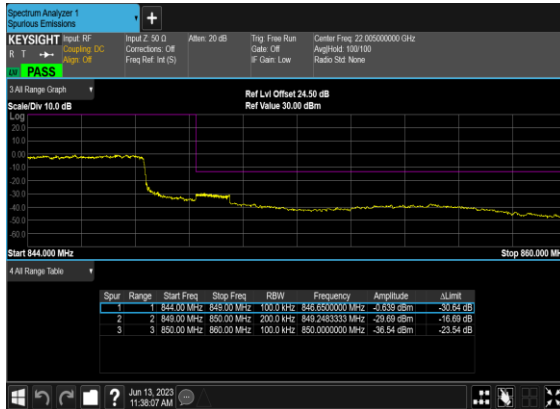
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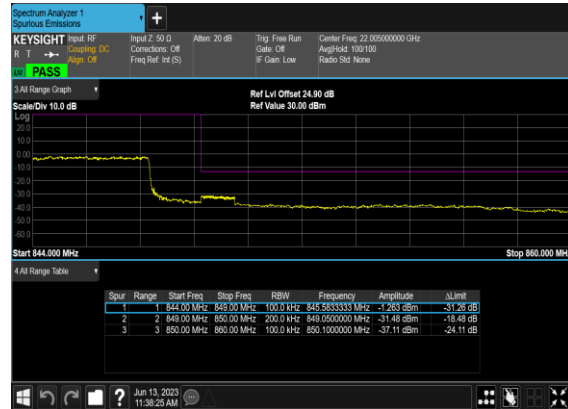
N5(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N5(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N5(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

SA n5 / NR 20MHz / QPSK / ANT7								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-66.54	-13	-53.54	-73.51	1.58	10.70	H
	2480	-62.83	-13	-49.83	-71.08	2.102	12.50	H
	3312	-62.24	-13	-49.24	-71.13	2.856	13.90	H
	1656	-64.43	-13	-51.43	-71.40	1.58	10.70	V
	2480	-59.68	-13	-46.68	-67.93	2.10	12.50	V
	3312	-61.11	-13	-48.11	-70.00	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_7A_n5A / LTE 20MHz + NR 20MHz / QPSK ANT1(LTE) & ANT7(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-65.24	-13	-52.24	-72.21	1.58	10.70	H
	2480	-61.65	-13	-48.65	-69.90	2.102	12.50	H
	3312	-60.95	-13	-47.95	-69.84	2.856	13.90	H
	1656	-64.44	-13	-51.44	-71.41	1.58	10.70	V
	2480	-59.60	-13	-46.60	-67.85	2.10	12.50	V
	3312	-60.76	-13	-47.76	-69.65	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.