

FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2215-2, XT2215-3, XT2215-4, XT2215DL
FCC ID : IHDT56AA4
STANDARD : 47 CFR Part 2, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 27, 2021 ~ Jan. 15, 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.



Reviewed by: Derreck Chen / Supervisor



Approved by: Eric Shih / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1N0903M	Rev. 01	Initial issue of report	Jan. 30, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	-	Peak-to-Average Ratio	—	Report Only	-
3.6	§27.50 (a)(3)	EIRP	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 7.17 dB at 6917.40 MHz

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Applicant

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

1.2 Manufacturer

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2215-2, XT2215-3, XT2215-4, XT2215DL
FCC ID	IHDT56AA4
IMEI Code	Conducted : 351475460011370 Radiation : 351475460012056
HW Version	DVT2
SW Version	S1SD32.29
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	5G NR n30 : 2305 MHz ~ 2315 MHz
Rx Frequency	5G NR n30 : 2350 MHz ~ 2360 MHz
SCS	15kHz
Bandwidth	5MHz / 10MHz
Antenna Gain	<Ant.7> : 5G NR n30 : -6.7 dBi <Ant.8> : 5G NR n30 : -5.5 dBi
Type of Modulation	5G NR: DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)

Remark:

1. The four models XT2215-2, XT2215-3, XT2215-4 and XT2215DL are only for market differentiation, all the others are the same.
2. The maximum ERP is calculated from max Output power and antenna gain, only the maximum ERP are shown in the report.
3. 5G NR n30 only support SA & NSA.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n30		PI/2 BPSK/QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2307.5 ~ 2312.5	0.0610	4M48G7D	0.0492	4M48W7D
10	2310.0	0.0644	9M27G7D	0.0494	9M28W7D

1.7 Testing Site

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.
	03CH04-SZ	CN1256	421272

1.8 Test Software

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

1.9 Applied Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola(Chenyang)	Model Name	MC-101
AC Adapter 2	Brand Name	Motorola(Salcomp)	Model Name	MC-101
AC Adapter 3	Brand Name	Motorola(AOHA)	Model Name	MC-101
Battery	Brand Name	Motorola(ATL)	Model Name	MD50
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D22297
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D22298
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D22299



2 Test Configuration of Equipment Under Test

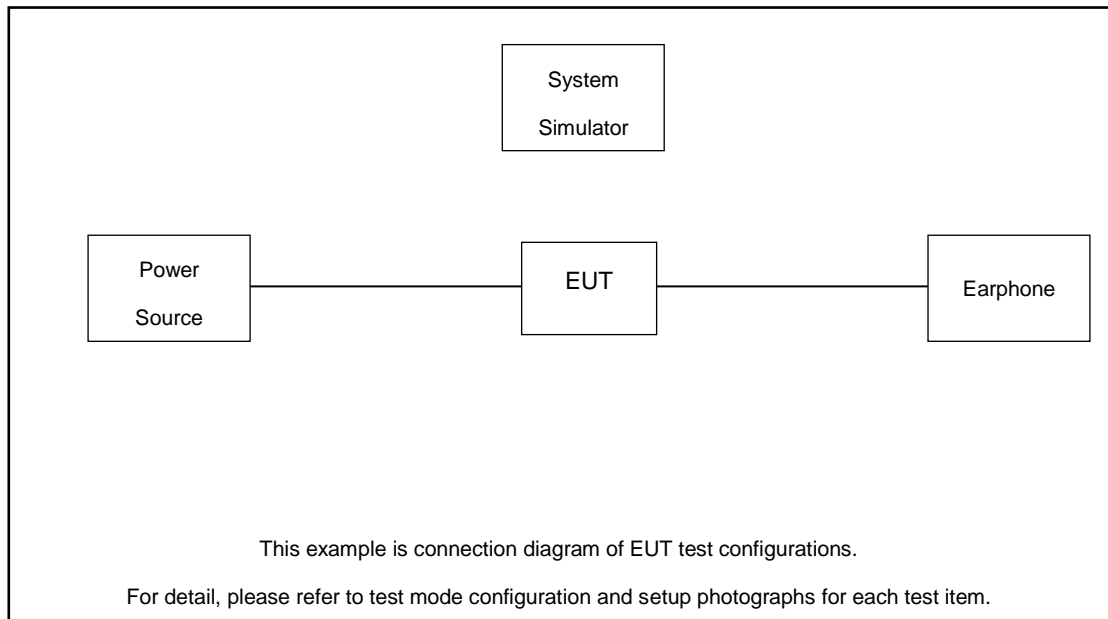
2.1 Test Mode

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

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		1.4	3	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n30	-	-	v		-	-	v	v	v	v	v	v	v	v	v	v	v
		-	-		v	-	-	v	v	v	v	v	v	v	v		v	
Peak-to-Average Ratio	n30	-	-		v	-	-		v	v	v		v		v		v	
E.I.R.P	n30	-	-	v		-	-	v	v	v	v	v	v	v	v	v	v	v
		-	-		v	-	-	v	v	v	v	v	v	v	v		v	
26dB and 99% Bandwidth	n30	-	-	v		-	-	v	v	v	v	v			v		v	
		-	-		v	-	-	v	v	v	v	v			v		v	
Conducted Band Edge	n30	-	-	v		-	-	v	v				v		v	v		v
		-	-		v	-	-	v	v				v		v		v	
Conducted Spurious Emission	n30	-	-	v		-	-	v	v				v			v	v	v
		-	-		v	-	-	v	v				v				v	
Frequency Stability	n30	-	-		v	-	-		v						v		v	
Radiated Spurious Emission	n30	Worst case																v
Note	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing The mark "- " means that this bandwidth is not supported. 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. 																	

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
3.	Earphone	Eimuse	E-500MV	Fcc DoC	Shielded, 2.2m	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.

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

Following shows an offset computation example with cable loss 5.0 dB.

Example :

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

$$= 5.0 \text{ (dB)}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR n30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	471000	-
	Frequency	-	2310	-
5	Channel	470500	471000	471500
	Frequency	2307.5	2310	2312.5

3 Conducted Test Items

3.1 Measuring Instruments

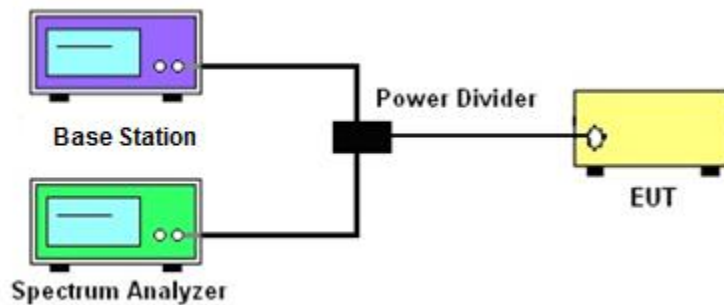
See list of measuring instruments of this test report.

3.2 Test Setup

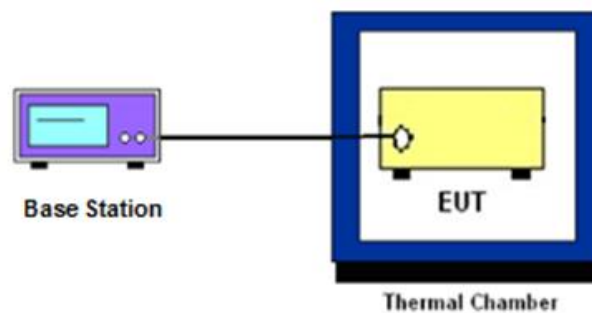
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,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 Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

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 EIRP

3.6.1 Description of EIRP

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

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 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:

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

3.9 Conducted Spurious Emission Measurement

3.9.1 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 $70 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 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 $70 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [70 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[70 + 10\log(P)]$ (dB)
= -40dBm

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 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.

3.10.3 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

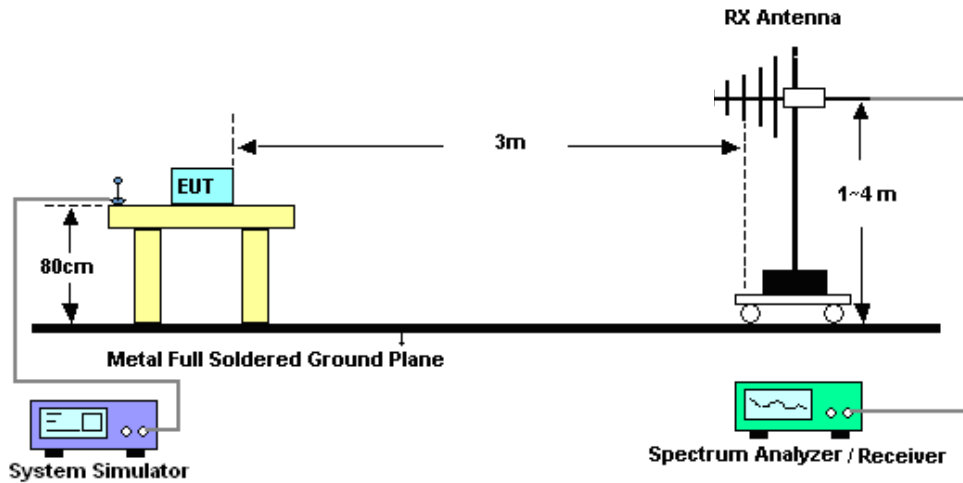
See list of measuring instruments of this test report.

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 Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. 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 $70 + 10 \log(P)$ 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.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm.}$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Dec. 27, 2021 ~Jan. 08, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Dec. 27, 2021 ~Jan. 08, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Dec. 27, 2021 ~Jan. 08, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22,2021	Jan. 15, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 20, 2021	Jan. 15, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Jan. 15, 2022	Jun. 21, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22,2021	Jan. 15, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 15, 2021	Jan. 15, 2022	Jul. 14, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 25, 2021	Jan. 15, 2022	Jul. 24, 2022	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22,2021	Jan. 15, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22,2021	Jan. 15, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 20. 2021	Jan. 15, 2022	Jul. 19. 2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22,2021	Jan. 15, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Jan. 15, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 15, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 15, 2022	NCR	Radiation (03CH04-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% ($U = 2Uc(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9dB
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Appendix A. Test Results of Conducted Test

Test Engineer :	Jason Zhang	Temperature :	24~26°C
		Relative Humidity :	50~53%

FR1 N30

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

Conducted Power and EIRP (Ant8, Gain= -5.5dBi)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
30	15	5	470500	2307.5	DFT-s-OFDM PI/2 BPSK	12@6	23.06	17.56	0.0570
30	15	5	470500	2307.5	DFT-s-OFDM PI/2 BPSK	1@1	23.21	17.71	0.0590
30	15	5	470500	2307.5	DFT-s-OFDM PI/2 BPSK	1@23	23.09	17.59	0.0574
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	12@6	23.13	17.63	0.0579
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	1@1	23.27	17.77	0.0598
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	1@23	23.13	17.63	0.0579
30	15	5	470500	2307.5	DFT-s-OFDM 16 QAM	12@6	22.34	16.84	0.0483
30	15	5	470500	2307.5	DFT-s-OFDM 16 QAM	1@1	22.25	16.75	0.0473
30	15	5	470500	2307.5	DFT-s-OFDM 16 QAM	1@23	22.13	16.63	0.0460
30	15	5	470500	2307.5	DFT-s-OFDM 64 QAM	12@6	20.81	15.31	0.0340
30	15	5	470500	2307.5	DFT-s-OFDM 64 QAM	1@1	21.04	15.54	0.0358
30	15	5	470500	2307.5	DFT-s-OFDM 64 QAM	1@23	20.88	15.38	0.0345
30	15	5	470500	2307.5	DFT-s-OFDM 256 QAM	12@6	18.75	13.25	0.0211
30	15	5	470500	2307.5	DFT-s-OFDM 256 QAM	1@1	18.31	12.81	0.0191
30	15	5	470500	2307.5	DFT-s-OFDM 256 QAM	1@23	18.16	12.66	0.0185
30	15	5	470500	2307.5	CP-OFDM QPSK	13@6	21.79	16.29	0.0426
30	15	5	470500	2307.5	CP-OFDM QPSK	1@1	21.83	16.33	0.0430
30	15	5	470500	2307.5	CP-OFDM QPSK	1@23	21.66	16.16	0.0413
30	15	5	471000	2310	DFT-s-OFDM PI/2 BPSK	12@6	23.16	17.66	0.0583
30	15	5	471000	2310	DFT-s-OFDM PI/2 BPSK	1@1	23.2	17.7	0.0589
30	15	5	471000	2310	DFT-s-OFDM PI/2 BPSK	1@23	23.21	17.71	0.0590
30	15	5	471000	2310	DFT-s-OFDM QPSK	12@6	23.24	17.74	0.0594
30	15	5	471000	2310	DFT-s-OFDM QPSK	1@1	23.31	17.81	0.0604
30	15	5	471000	2310	DFT-s-OFDM QPSK	1@23	23.28	17.78	0.0600
30	15	5	471000	2310	DFT-s-OFDM 16 QAM	12@6	22.41	16.91	0.0491
30	15	5	471000	2310	DFT-s-OFDM 16 QAM	1@1	22.2	16.7	0.0468
30	15	5	471000	2310	DFT-s-OFDM	1@23	22.14	16.64	0.0461

16 QAM									
30	15	5	471000	2310	DFT-s-OFDM 64 QAM	12@6	20.89	15.39	0.0346
30	15	5	471000	2310	DFT-s-OFDM 64 QAM	1@1	20.97	15.47	0.0352
30	15	5	471000	2310	DFT-s-OFDM 64 QAM	1@23	20.96	15.46	0.0352
30	15	5	471000	2310	DFT-s-OFDM 256 QAM	12@6	18.8	13.3	0.0214
30	15	5	471000	2310	DFT-s-OFDM 256 QAM	1@1	18.27	12.77	0.0189
30	15	5	471000	2310	DFT-s-OFDM 256 QAM	1@23	18.26	12.76	0.0189
30	15	5	471000	2310	CP-OFDM QPSK	13@6	21.87	16.37	0.0434
30	15	5	471000	2310	CP-OFDM QPSK	1@1	21.82	16.32	0.0429
30	15	5	471000	2310	CP-OFDM QPSK	1@23	21.74	16.24	0.0421
30	15	5	471500	2312.5	DFT-s-OFDM PI/2 BPSK	12@6	23.25	17.75	0.0596
30	15	5	471500	2312.5	DFT-s-OFDM PI/2 BPSK	1@1	23.26	17.76	0.0597
30	15	5	471500	2312.5	DFT-s-OFDM PI/2 BPSK	1@23	23.18	17.68	0.0586
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	12@6	23.31	17.81	0.0604
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	1@1	23.35	17.85	0.0610
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	1@23	23.17	17.67	0.0585
30	15	5	471500	2312.5	DFT-s-OFDM 16 QAM	12@6	22.42	16.92	0.0492
30	15	5	471500	2312.5	DFT-s-OFDM 16 QAM	1@1	22.27	16.77	0.0475
30	15	5	471500	2312.5	DFT-s-OFDM 16 QAM	1@23	22.11	16.61	0.0458
30	15	5	471500	2312.5	DFT-s-OFDM 64 QAM	12@6	20.93	15.43	0.0349
30	15	5	471500	2312.5	DFT-s-OFDM 64 QAM	1@1	21.06	15.56	0.0360
30	15	5	471500	2312.5	DFT-s-OFDM 64 QAM	1@23	20.92	15.42	0.0348
30	15	5	471500	2312.5	DFT-s-OFDM 256 QAM	12@6	18.87	13.37	0.0217
30	15	5	471500	2312.5	DFT-s-OFDM 256 QAM	1@1	18.34	12.84	0.0192
30	15	5	471500	2312.5	DFT-s-OFDM 256 QAM	1@23	18.19	12.69	0.0186
30	15	5	471500	2312.5	CP-OFDM QPSK	13@6	21.87	16.37	0.0434
30	15	5	471500	2312.5	CP-OFDM QPSK	1@1	21.85	16.35	0.0432
30	15	5	471500	2312.5	CP-OFDM QPSK	1@23	21.69	16.19	0.0416
30	15	10	471000	2310	DFT-s-OFDM PI/2 BPSK	25@12	23.28	17.78	0.0600
30	15	10	471000	2310	DFT-s-OFDM PI/2 BPSK	1@1	23.54	18.04	0.0637
30	15	10	471000	2310	DFT-s-OFDM PI/2 BPSK	1@50	23.22	17.72	0.0592
30	15	10	471000	2310	DFT-s-OFDM QPSK	25@12	23.36	17.86	0.0611
30	15	10	471000	2310	DFT-s-OFDM QPSK	1@1	23.59	18.09	0.0644
30	15	10	471000	2310	DFT-s-OFDM	1@50	23.31	17.81	0.0604

QPSK									
30	15	10	471000	2310	DFT-s-OFDM 16 QAM	25@12	22.44	16.94	0.0494
30	15	10	471000	2310	DFT-s-OFDM 16 QAM	1@1	22.42	16.92	0.0492
30	15	10	471000	2310	DFT-s-OFDM 16 QAM	1@50	22.19	16.69	0.0467
30	15	10	471000	2310	DFT-s-OFDM 64 QAM	25@12	20.9	15.4	0.0347
30	15	10	471000	2310	DFT-s-OFDM 64 QAM	1@1	21.28	15.78	0.0378
30	15	10	471000	2310	DFT-s-OFDM 64 QAM	1@50	20.98	15.48	0.0353
30	15	10	471000	2310	DFT-s-OFDM 256 QAM	25@12	18.86	13.36	0.0217
30	15	10	471000	2310	DFT-s-OFDM 256 QAM	1@1	18.49	12.99	0.0199
30	15	10	471000	2310	DFT-s-OFDM 256 QAM	1@50	18.18	12.68	0.0185
30	15	10	471000	2310	CP-OFDM QPSK	26@13	21.82	16.32	0.0429
30	15	10	471000	2310	CP-OFDM QPSK	1@1	22.07	16.57	0.0454
30	15	10	471000	2310	CP-OFDM QPSK	1@50	21.8	16.3	0.0427

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0068	PASS	NV
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0662	PASS	LV
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0681	PASS	HV
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0377	PASS	-30°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0683	PASS	-20°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0608	PASS	-10°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0471	PASS	0°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0478	PASS	10°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0463	PASS	20°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0532	PASS	30°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0444	PASS	40°C
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	0.0317	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
30	15	10	471000	2310.0	DFT-s-OFDM PI/2 BPSK	50@0	3.78	13	PASS
30	15	10	471000	2310.0	DFT-s-OFDM PI/2 BPSK	1@0	3.65	13	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	5.12	13	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	1@0	5.2	13	PASS

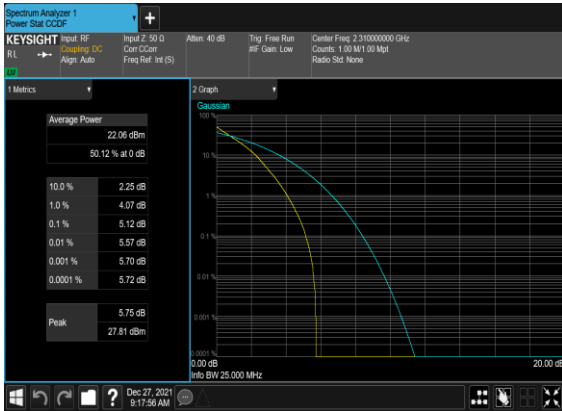
N30(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



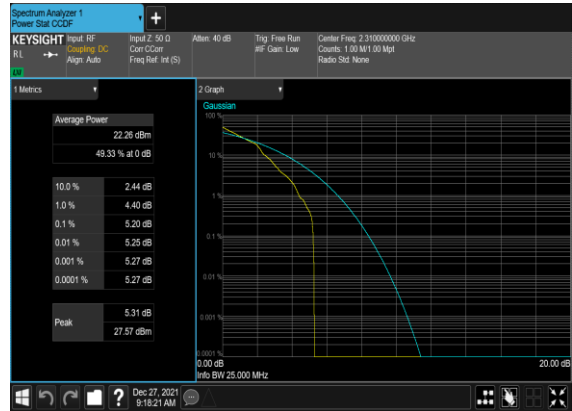
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N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



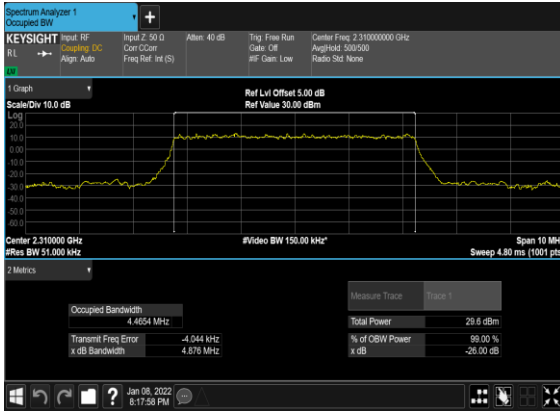
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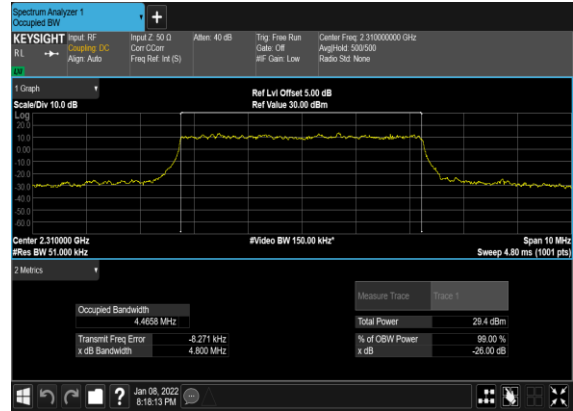
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
30	15	5	471000	2310.0	DFT-s-OFDM PI/2 BPSK	25@0	4.4654	4.876
30	15	5	471000	2310.0	DFT-s-OFDM QPSK	25@0	4.4658	4.8
30	15	5	471000	2310.0	CP-OFDM QPSK	25@0	4.4801	4.952
30	15	5	471000	2310.0	CP-OFDM 16 QAM	25@0	4.4839	4.904
30	15	5	471000	2310.0	CP-OFDM 64 QAM	25@0	4.4812	4.965
30	15	5	471000	2310.0	CP-OFDM 256 QAM	25@0	4.4678	4.974
30	15	10	471000	2310.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8851	9.514
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	8.9058	9.507
30	15	10	471000	2310.0	CP-OFDM QPSK	52@0	9.2688	10.02
30	15	10	471000	2310.0	CP-OFDM 16 QAM	52@0	9.2728	9.961
30	15	10	471000	2310.0	CP-OFDM 64 QAM	52@0	9.2694	9.849
30	15	10	471000	2310.0	CP-OFDM 256 QAM	52@0	9.2847	9.927

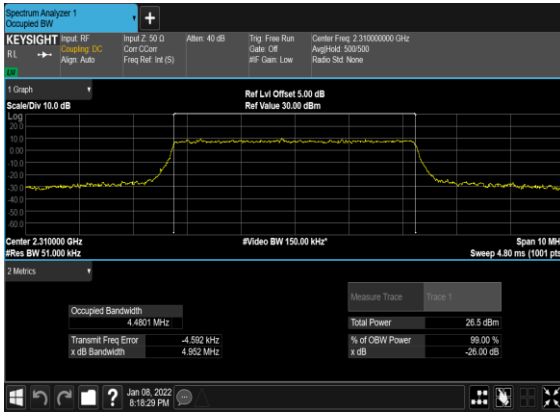
B2_N30(5M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



B2_N30(5M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



B2_N30(5M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



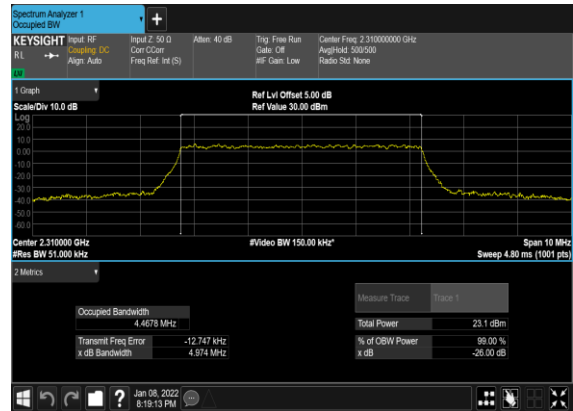
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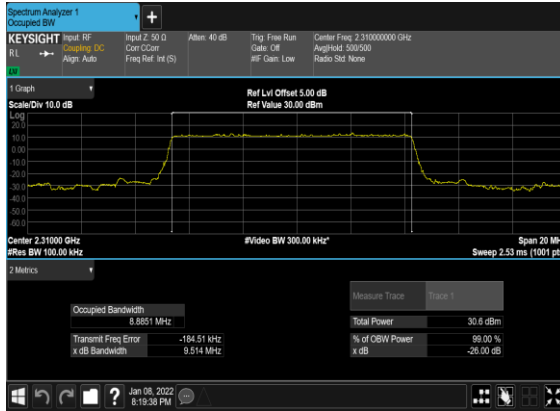
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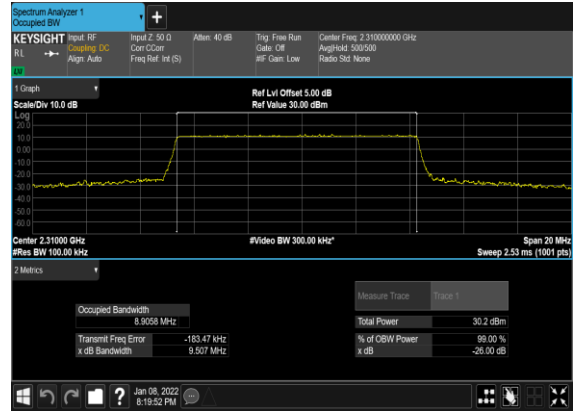
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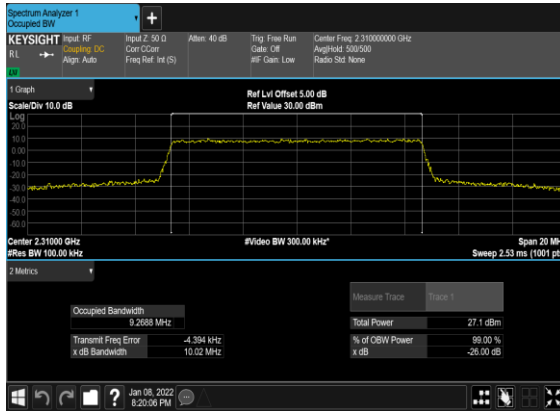
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BPSK_Outer_Full_Low_CH



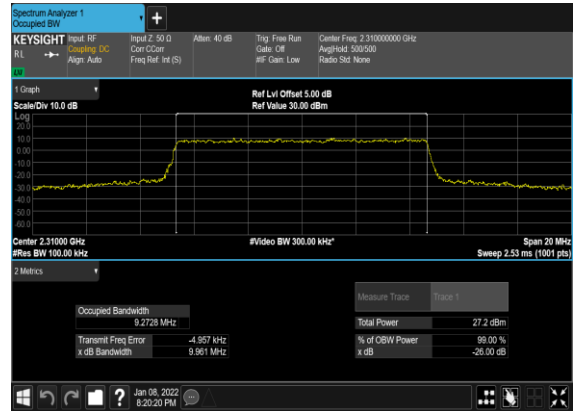
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OFDM_QPSK_Outer_Full_Low_CH



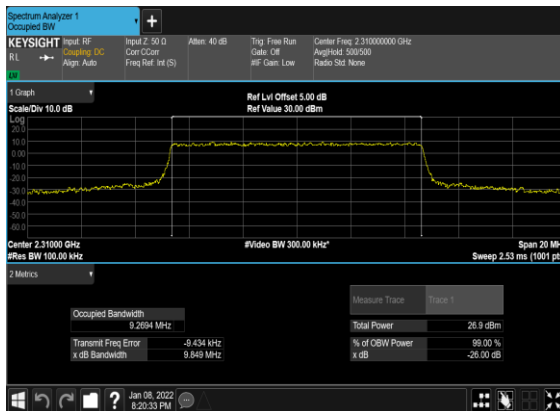
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OFDM_QPSK_Outer_Full_Low_CH



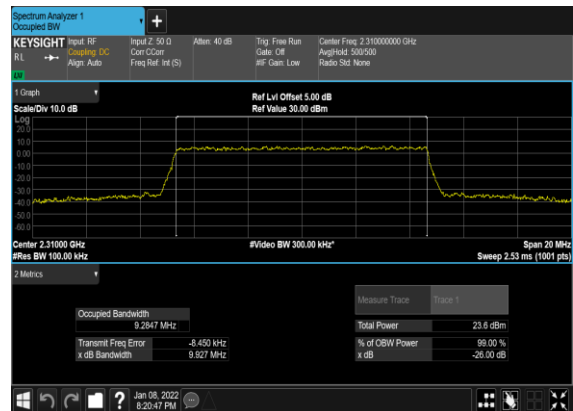
B2_N30(10M)_CP-OFDM_16
QAM_Outer_Full_Low_CH



B2_N30(10M)_CP-OFDM_64
QAM_Outer_Full_Low_CH



B2_N30(10M)_CP-OFDM_256
QAM_Outer_Full_Low_CH

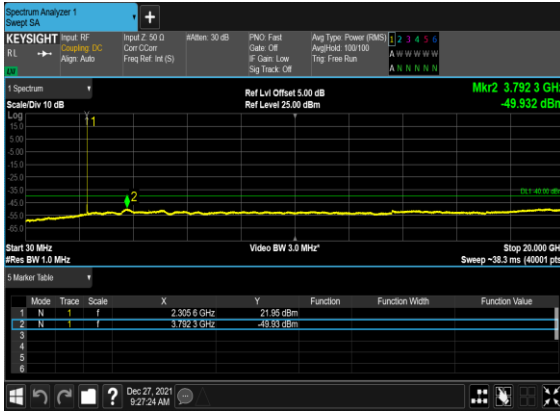


Conducted Spurious Emissions

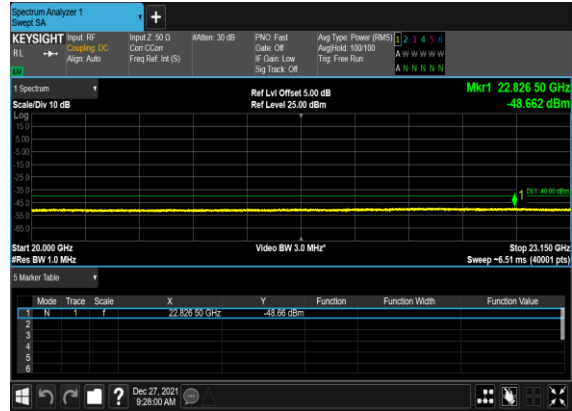
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
30	15	5	470500	2307.5	DFT-s-OFDM BPSK	1@0	see graph	---
30	15	5	470500	2307.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	470500	2307.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	1@0	see graph	---
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	---
30	15	5	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	---
30	15	5	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM BPSK	1@0	see graph	---
30	15	5	471500	2312.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	1@0	see graph	---
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	---
30	15	10	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	---

30	15	10	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

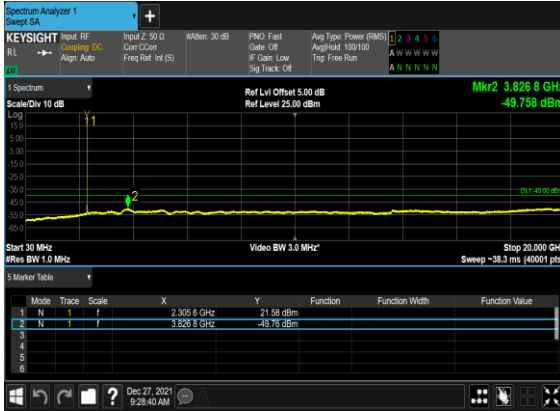
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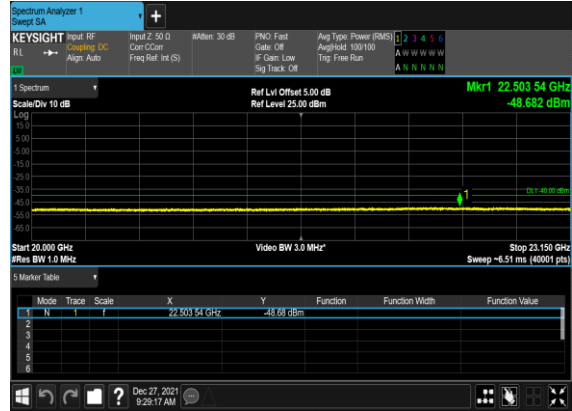
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



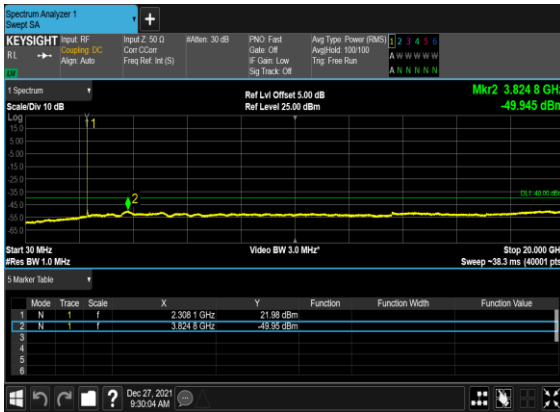
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



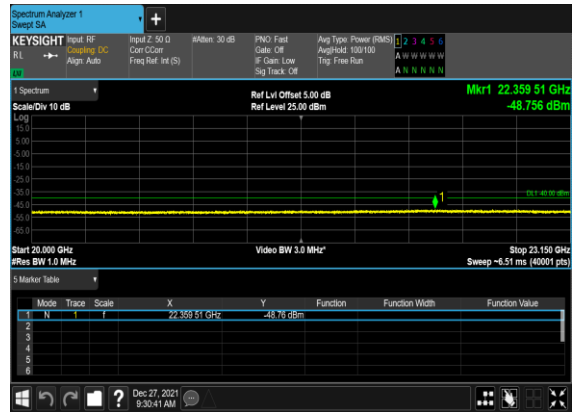
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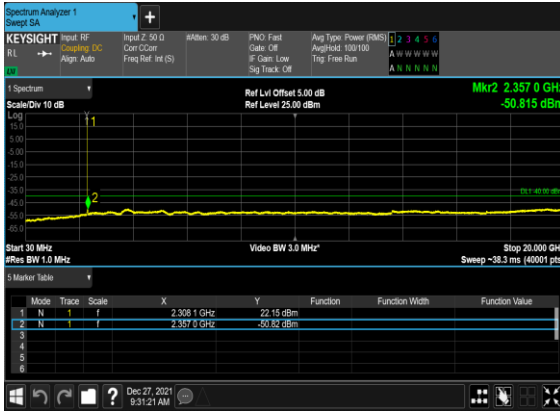
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



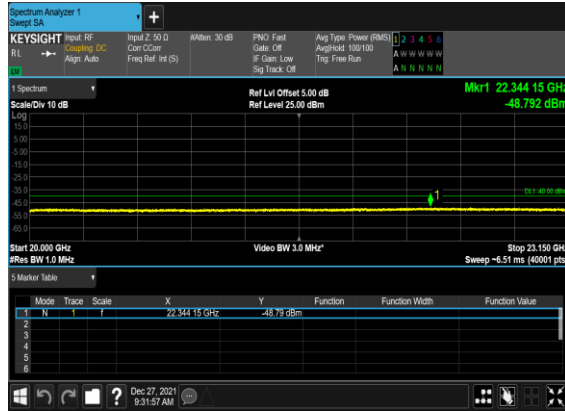
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



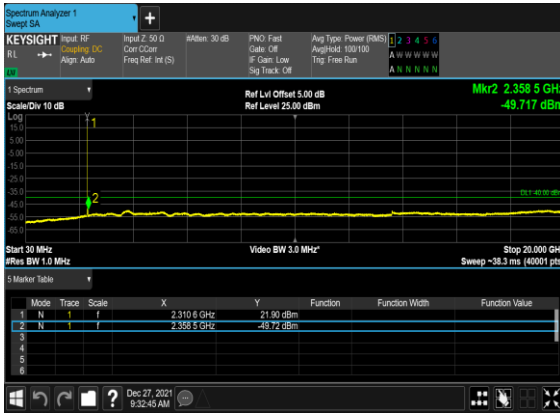
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



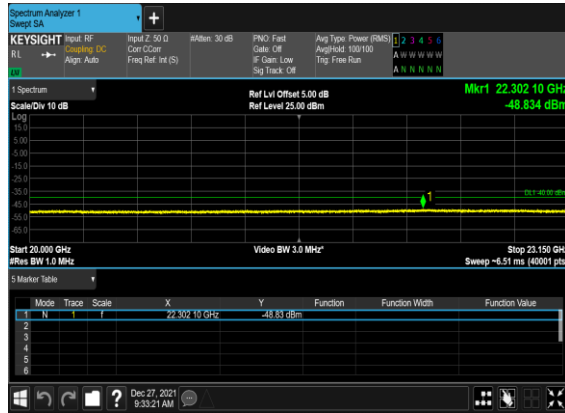
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



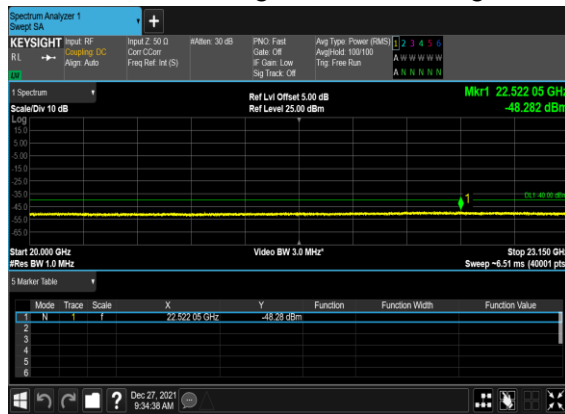
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



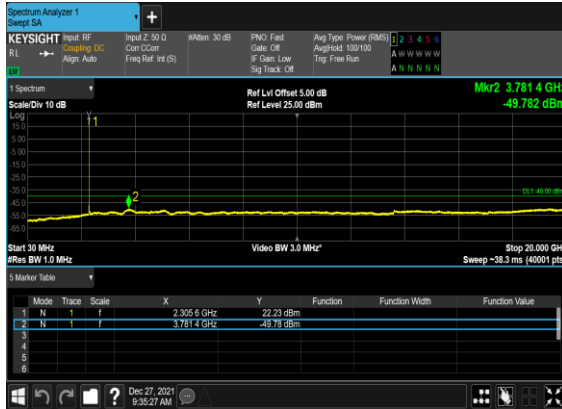
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



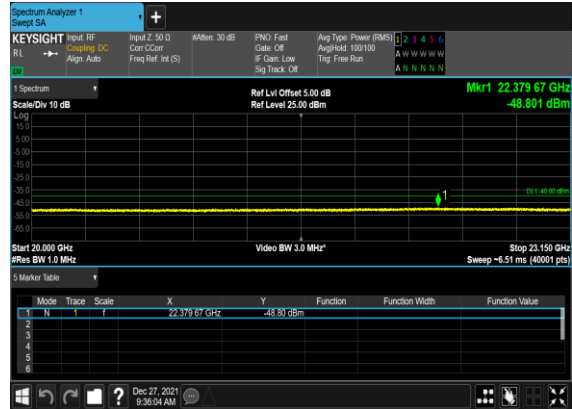
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



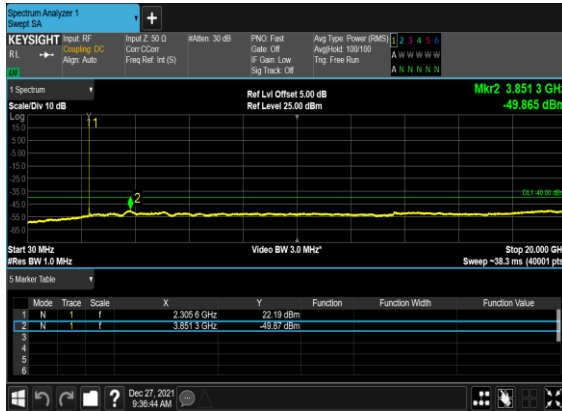
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



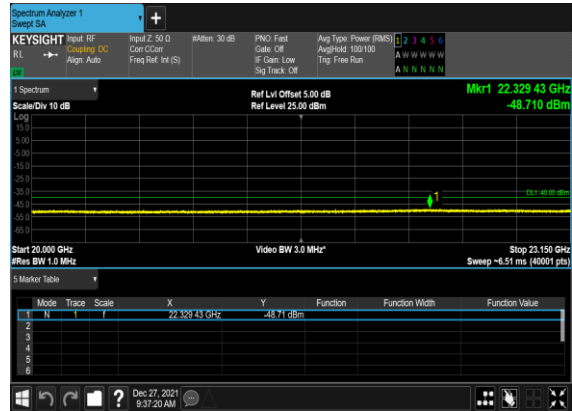
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



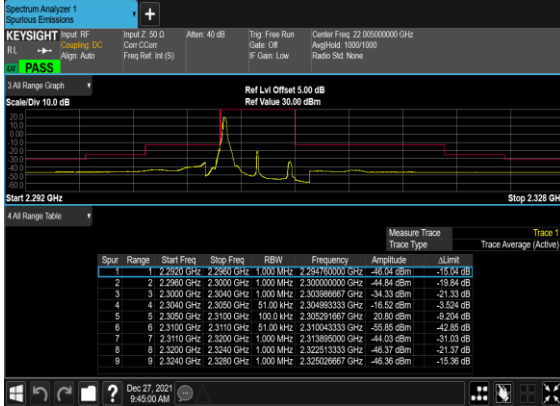
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



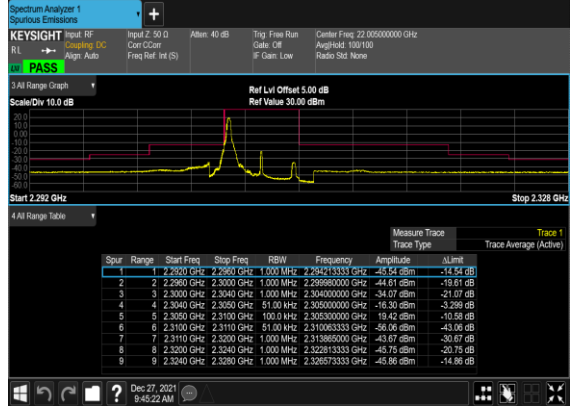
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
30	15	5	470500	2307.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	470500	2307.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
30	15	5	470500	2307.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
30	15	5	471500	2312.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
30	15	10	471000	2310.0	DFT-s-OFDM QPSK	50@0	see graph	PASS

N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



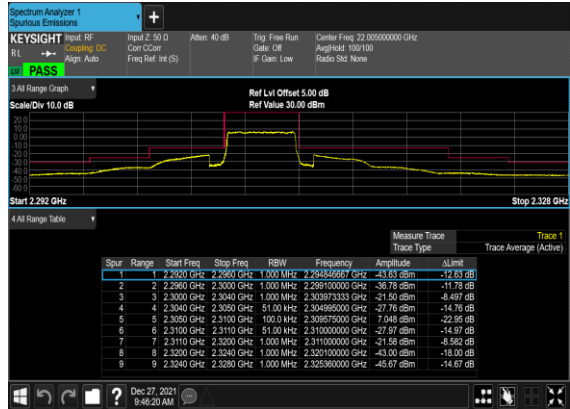
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



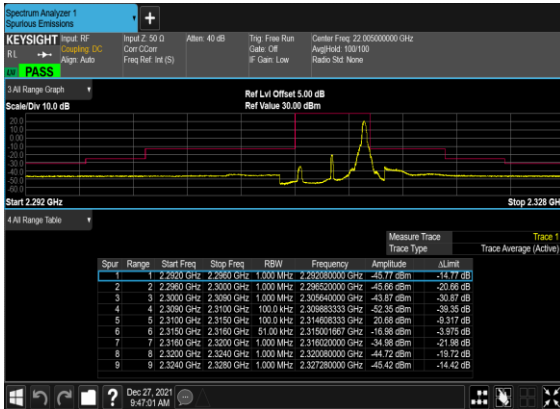
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



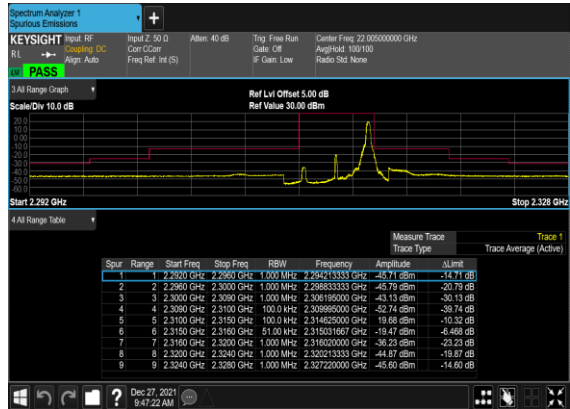
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



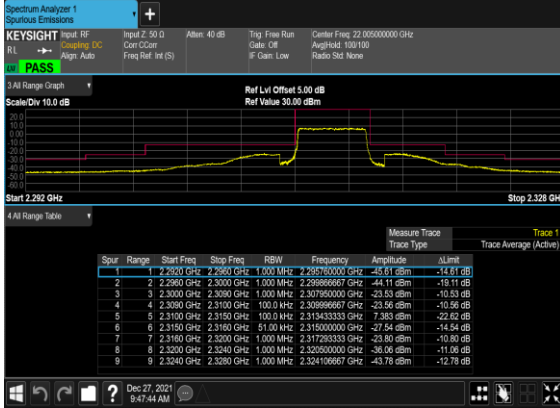
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



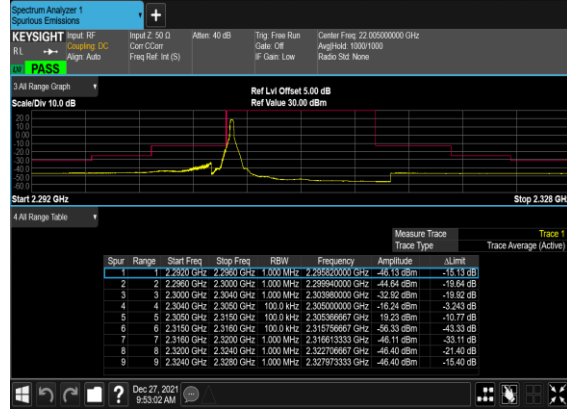
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



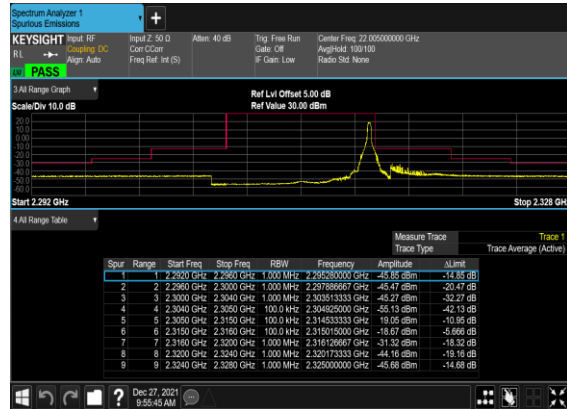
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



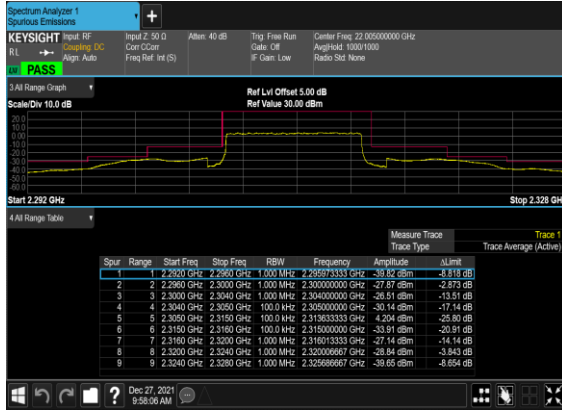
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



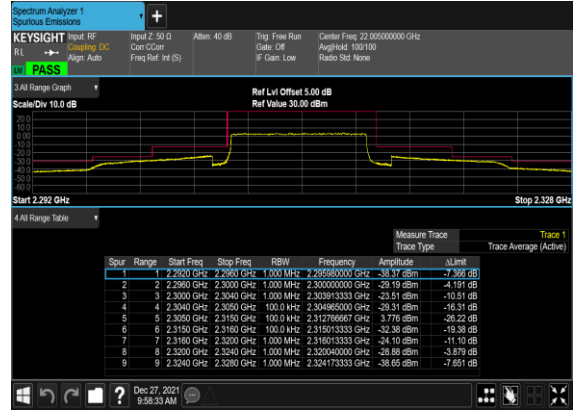
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



N30(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	KuangJia/WenBo XIAO	Temperature :	22~25°C
		Relative Humidity :	48~52%

SA 5G NR n30 / 10MHz / QPSK / ANT8(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.60	-59.93	-40	-19.93	-78.18	-66.18	6.45	12.70	H
	6917.40	-47.17	-40	-7.17	-69.32	-50.57	8.40	11.80	H
	9223.20	-53.12	-40	-13.12	-79.98	-55.47	9.65	12.00	H
	4611.60	-61.29	-40	-21.29	-79.73	-67.54	6.45	12.70	V
	6917.40	-53.85	-40	-13.85	-76.3	-57.25	8.40	11.80	V
	9223.20	-53.33	-40	-13.33	-79.72	-55.68	9.65	12.00	V

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

EN-DC_2A_n30A / LTE 10MHz + NR 10MHz / QPSK / ANT1(LTE) & ANT8(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
LTE Band2 Middle	3742.18	-61.62	-40	-21.62	-78.25	-68.37	5.85	12.60	H
	5613.27	-53.84	-40	-13.84	-73.36	-59.64	7.30	13.10	H
	7484.36	-55.83	-40	-15.83	-79.58	-58.98	8.35	11.50	H
	3742.18	-62.30	-40	-22.30	-78.55	-69.05	5.85	12.60	V
	5613.27	-50.94	-40	-10.94	-69.94	-56.74	7.30	13.10	V
	7484.36	-55.39	-40	-15.39	-79.53	-58.54	8.35	11.50	V
NR n30 Middle	4611.60	-60.68	-40	-20.68	-78.93	-66.93	6.45	12.70	H
	6917.40	-56.25	-40	-16.25	-78.40	-59.65	8.40	11.80	H
	9223.20	-53.16	-40	-13.16	-80.02	-55.51	9.65	12.00	H
	4611.60	-61.34	-40	-21.34	-79.78	-67.59	6.45	12.70	V
	6917.40	-57.21	-40	-17.21	-79.66	-60.61	8.40	11.80	V
	9223.20	-53.31	-40	-13.31	-79.7	-55.66	9.65	12.00	V

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

———— THE END ————