



# FCC RF Test Report

**APPLICANT** : vivo Mobile Communication Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : vivo  
**MODEL NAME** : V2202  
**FCC ID** : 2AUCY-V2202  
**STANDARD** : 47 CFR Part 2, 27Q  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Jul. 05, 2022 ~ Jul. 22, 2022

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

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

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (ShenZhen)**

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

**People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG260813F	Rev. 01	Initial issue of report	Aug. 05, 2022



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 29.08 dB at 10336.000 MHz

**Declaration of Conformity:**

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

**Comments and Explanations:**

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



# 1 General Description

## 1.1 Applicant

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

## 1.2 Manufacturer

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

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2202
FCC ID	2AUCY-V2202
IMEI Code	Radiation: 866295060093993/866295060093910 Conducted: 866295060094256
HW Version	MP_0.1
SW Version	PD2215CF_EX_A_12.0.3.8.W30.V000L1
EUT Stage	Production Unit

### 1.4 Product Specification of Equipment Under Test

Product Feature	
<b>Tx/Rx Frequency</b>	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
<b>SCS</b>	15kHz / 30kHz
<b>Bandwidth</b>	n77: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz n78: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
<b>Antenna Gain</b>	<b>Ant. 11:</b> 5G NR n77: 2.5 dBi 5G NR n78: 2.5 dBi <b>Ant. 12:</b> 5G NR n77: -2.8 dBi 5G NR n78: -2.8 dBi <b>Ant. 21:</b> 5G NR n77: -6.0 dBi 5G NR n78: -6.0 dBi <b>Ant. 23:</b> 5G NR n77: -0.5 dBi 5G NR n78: -0.5 dBi
<b>Type of Modulation</b>	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Remark:**

1. The maximum EIRP is calculated from max Output power and antenna gain, only the maximum EIRP are shown in the report, 5G NR n77/n78 for Antenna 11.
2. The device supports n77 / n78(1T4R) SRS resources on Ant.11/12/21/23, only the test data of worst Ant.11/12 is showed in the report according to the maximum power
3. 5G NR n77 support SA, n78 support SA & NSA, SA covers NSA by referring to the maximum power.
4. The EN-DC mode combination: DC\_2A\_n78A, DC\_4A\_n78A, DC\_5A\_n78A, DC\_7A\_n78A, DC\_38A\_n78A, DC\_41A\_n78A, DC\_66A\_n78A.

### 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 n77 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.1180	9M28G7D	0.0935	9M28W7D
15	3457.50 ~ 3542.49	0.1175	14M1G7D	0.0920	14M1W7D
20	3460.02 ~ 3540.00	0.1172	18M9G7D	0.0938	18M9W7D
40	3470.01 ~ 3529.98	0.1064	38M6G7D	0.0879	38M5W7D
50	3475.02 ~ 3525.00	0.1191	48M2G7D	0.0940	48M2W7D
60	3480.00 ~ 3519.99	0.1104	57M9G7D	0.0887	57M9W7D
80	3490.02 ~ 3510.00	0.1059	77M6G7D	0.0849	77M4W7D
90	3495.00 ~ 3504.99	0.1016	87M4G7D	0.0820	87M5W7D
100	3500.01	0.1183	97M3G7D	0.0912	97M4W7D

5G NR n78 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.1239	9M28G7D	0.1012	9M28W7D
15	3457.50 ~ 3542.49	0.1265	14M1G7D	0.1074	14M1W7D
20	3460.02 ~ 3540.00	0.1247	18M9G7D	0.1023	18M9W7D
30	3465.00 ~ 3534.99	0.1180	28M6G7D	0.0982	28M6W7D
40	3470.01 ~ 3529.98	0.1104	38M6G7D	0.0914	38M5W7D
50	3475.02 ~ 3525.00	0.1268	48M2G7D	0.1000	48M2W7D
60	3480.00 ~ 3519.99	0.1127	57M9G7D	0.0897	57M9W7D
80	3490.02 ~ 3510.00	0.1079	77M6G7D	0.0879	77M4W7D
90	3495.00 ~ 3504.99	0.1057	87M4G7D	0.0838	87M5W7D
100	3500.01	0.1242	97M3G7D	0.0968	97M4W7D

**Note:**

1. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.
2. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the conducted test results provided in this report covers Band n78 as well as Band n77.



### 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.

<b>Test Firm</b>	Sporton International Inc. (Shenzhen)		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

<b>Test Firm</b>	Sporton International Inc. (Shenzhen)		
<b>Test Location Site</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH01-SZ	CN1256	421272

### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-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, 27Q
- ♦ 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.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

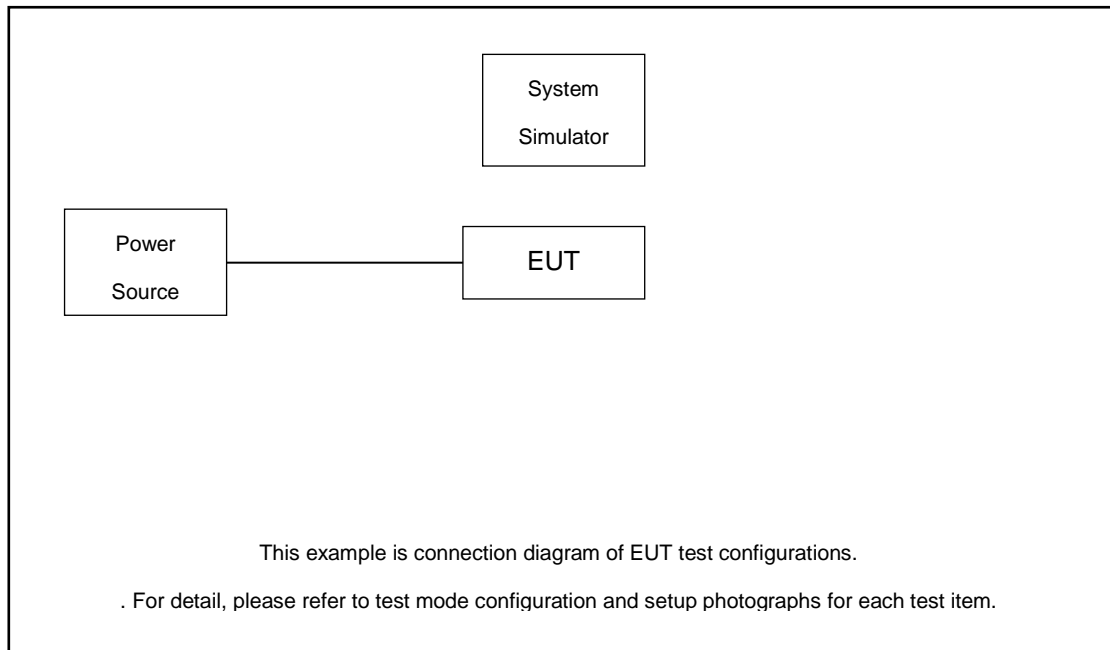
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane for 5G NR n77 and EN-DC 41A\_n78A; Y Plane for 5G NR n78) were recorded in this report.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)											Modulation				RB #		Test Channel					
		10	15	20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H		
Max. Output Power	n77	v	v	v	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v		
	n78	v	v	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v		
Peak-to-Average Ratio	n78			v					-				v	v				v	v	v	v	v		
26dB and 99% Bandwidth	n78	v	v	v	v	v	v	v	-	v	v	v	v	v	v	v	v		v			v		
Conducted Band Edge	n78	v		v			v		-			v	v	v				v	v	v	v	v		
Conducted Spurious Emission	n78	v		v			v		-			v	v	v				v			v	v		
Frequency Stability	n78			v					-					v					v			v		
E.R.P / E.I.R.P	n77	v	v	v	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v		
	n78	v	v	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v		
Radiated Spurious Emission	n77	Worst Case																						v
	n78	Worst Case																						v
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>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.</li> <li>Based on engineering evaluation, only the worst modulations test results are shown in the report.</li> <li>5G NR n78 overlaps the entire frequency range of n77, Therefore, the test results provided in this report covers n78 as well as n77.</li> <li>Frequency Stability : Normal Voltage: 3.89Vdc, Extreme Voltage: 3.60Vdc ~4.48Vdc</li> </ol>																							

## 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.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 8.6 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.6 \text{ (dB)} \end{aligned}$$



### 2.5 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98



5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

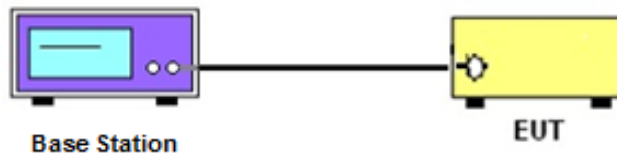
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

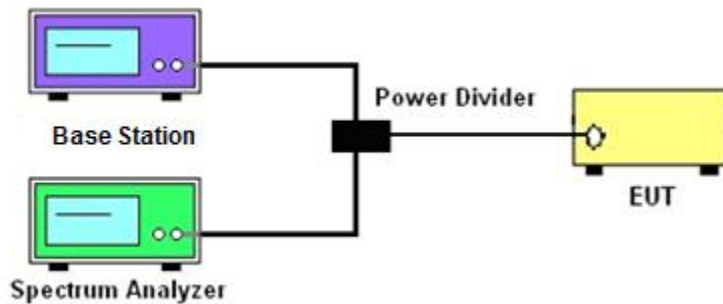
See list of measuring instruments of this test report.

#### 3.2 Test Setup

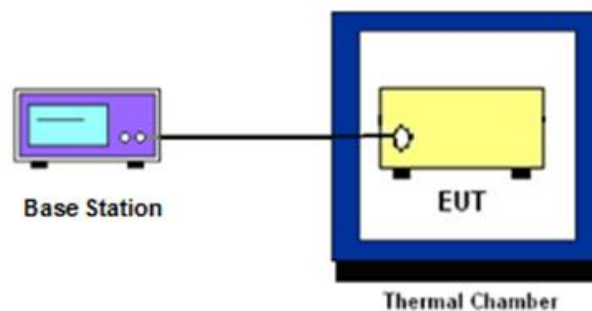
##### 3.2.1 Conducted Output Power



##### 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 Limit

#### § 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

### 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 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

#### 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 but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW  $\geq$  500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.



## 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 shall not exceed  $-13$  dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10<sup>th</sup> 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. Checked that all the results comply with the emission limit line.



## 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.

### 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  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . 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.

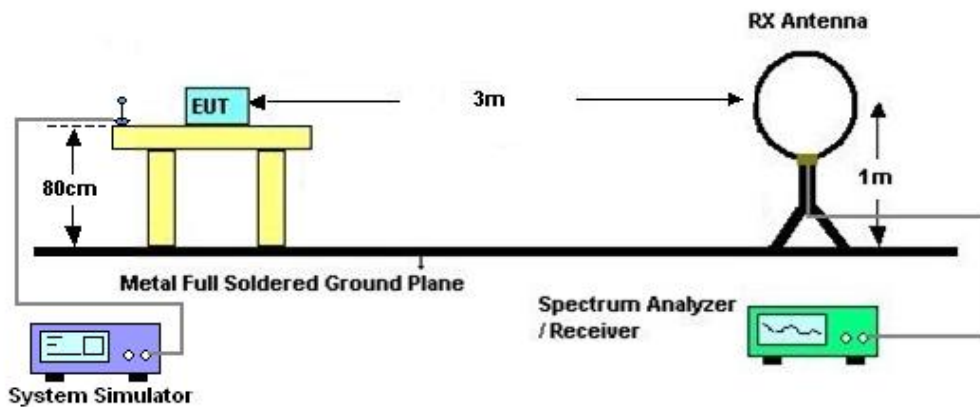
## 4 Radiated Test Items

### 4.1 Measuring Instruments

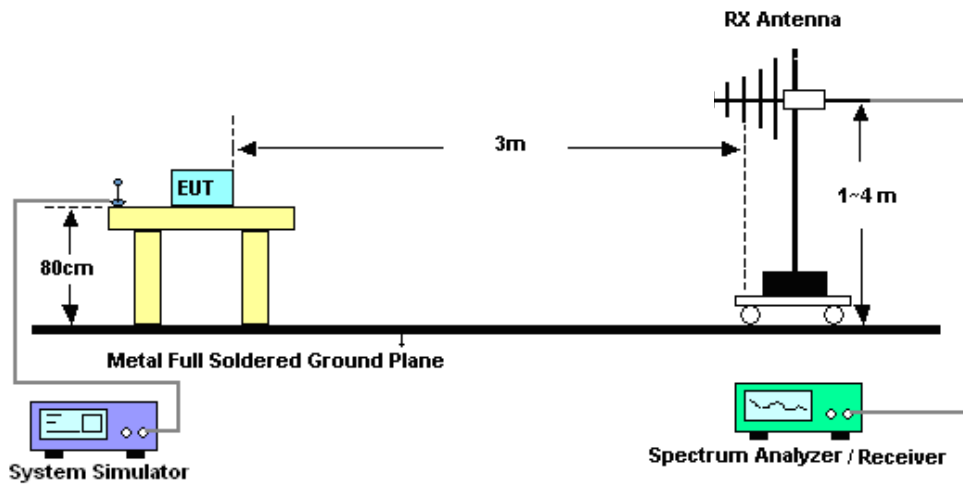
See list of measuring instruments of this test report.

### 4.2 Test Setup

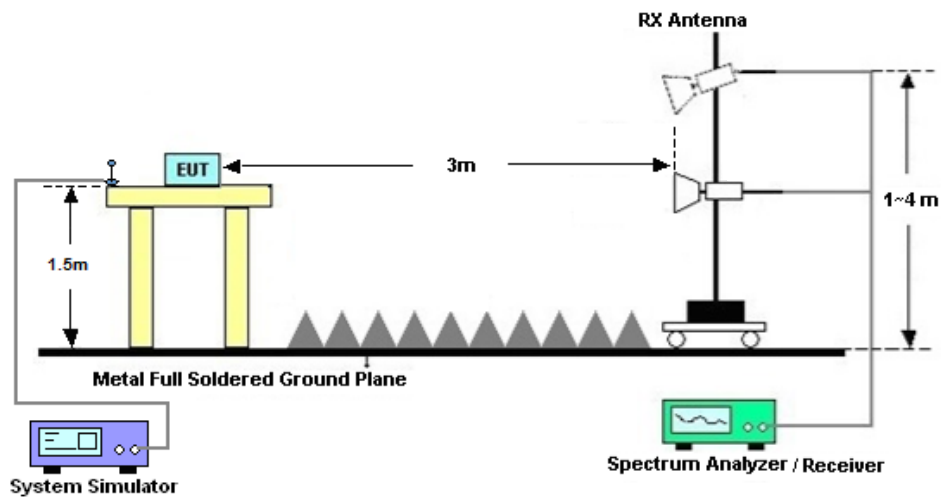
#### 4.2.1 For radiated test below 30MHz



#### 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 shall not exceed -13 dBm/MHz.

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.





## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Jul. 05, 2022~ Jul. 22, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 25, 2021	Jul. 05, 2022~ Jul. 22, 2022	Oct. 24, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Jul. 05, 2022~ Jul. 22, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jul. 05, 2022~ Jul. 06, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	Jul. 07, 2022~ Jul. 22, 2022	Jul. 06, 2023	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	Jul. 19, 2022	Dec. 26, 2022	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	Jul. 19, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Jul. 19, 2022	Sep. 27, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2022	Jul. 19, 2022	Jul. 03, 2023	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Jul. 19, 2022	Apr. 09, 2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	Jul. 19, 2022	Apr. 05, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Jul. 19, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 04, 2022	Jul. 19, 2022	Jul. 03, 2023	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jul. 19, 2022	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 19, 2022	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 19, 2022	NCR	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 17, 2022	Jul. 19, 2022	Jul. 16, 2024	Radiation (03CH01-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))	2.48dB
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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))	3.53dB
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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))	4.02dB
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----- THE END -----



## Appendix A. Test Results of Conducted Test

Test Engineer :	Zheng Jianhan	Temperature :	24~26°C
		Relative Humidity :	40~45%

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## Transmitter Conducted Output Power And EIRP (Ant. 11), (GT-LC)=-2.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	22.68	20.18	0.1042
77	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	21.83	19.33	0.0857
77	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.93	20.43	0.1104
77	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.99	19.49	0.0889
77	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@1	22.97	20.47	0.1114
77	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@1	21.94	19.44	0.0879
77	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	22.85	20.35	0.1084
77	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	21.86	19.36	0.0863
77	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.02	20.52	0.1127
77	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.02	19.52	0.0895
77	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.09	20.59	0.1146
77	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.12	19.62	0.0916
77	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@1	22.83	20.33	0.1079
77	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	1@1	21.89	19.39	0.0869
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23	20.5	0.1122
77	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.06	19.56	0.0904
77	15	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.07	20.57	0.1140
77	15	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.13	19.63	0.0918
77	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.34	19.84	0.0964
77	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	21.34	18.84	0.0766
77	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.52	20.02	0.1005
77	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.69	19.19	0.0830
77	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@1	22.71	20.21	0.1050
77	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@1	21.86	19.36	0.0863
77	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	135@67	23.08	20.58	0.1143
77	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@1	22.67	20.17	0.1040
77	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@268	22.73	20.23	0.1054

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	15	50	631667	3475.005	DFT-s-OFDM QPSK	135@67	23.12	20.62	0.1153
77	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@1	22.66	20.16	0.1038
77	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@268	22.78	20.28	0.1067
77	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	135@67	22.09	19.59	0.0910
77	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@1	21.67	19.17	0.0826
77	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@268	21.8	19.3	0.0851
77	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	135@67	20.69	18.19	0.0659
77	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@1	20.76	18.26	0.0670
77	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@268	20.82	18.32	0.0679
77	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	135@67	18.7	16.2	0.0417
77	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@1	18.53	16.03	0.0401
77	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@268	18.62	16.12	0.0409
77	15	50	631667	3475.005	CP-OFDM QPSK	135@67	21.7	19.2	0.0832
77	15	50	631667	3475.005	CP-OFDM QPSK	1@1	21.39	18.89	0.0774
77	15	50	631667	3475.005	CP-OFDM QPSK	1@268	21.52	19.02	0.0798
77	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.22	20.72	0.1180
77	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.85	20.35	0.1084
77	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@268	22.84	20.34	0.1081
77	15	50	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.2	20.7	0.1175
77	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.87	20.37	0.1089
77	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@268	22.85	20.35	0.1084
77	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	22.19	19.69	0.0931
77	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.9	19.4	0.0871
77	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@268	21.89	19.39	0.0869
77	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	20.8	18.3	0.0676
77	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.9	18.4	0.0692
77	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@268	20.82	18.32	0.0679
77	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	18.79	16.29	0.0426
77	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.65	16.15	0.0412
77	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@268	18.68	16.18	0.0415
77	15	50	633334	3500.01	CP-OFDM QPSK	135@67	21.81	19.31	0.0853

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	15	50	633334	3500.01	CP-OFDM QPSK	1@1	21.63	19.13	0.0818
77	15	50	633334	3500.01	CP-OFDM QPSK	1@268	21.61	19.11	0.0815
77	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	135@67	23.26	20.76	0.1191
77	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	22.94	20.44	0.1107
77	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@268	22.81	20.31	0.1074
77	15	50	635000	3525	DFT-s-OFDM QPSK	135@67	23.26	20.76	0.1191
77	15	50	635000	3525	DFT-s-OFDM QPSK	1@1	22.95	20.45	0.1109
77	15	50	635000	3525	DFT-s-OFDM QPSK	1@268	22.8	20.3	0.1072
77	15	50	635000	3525	DFT-s-OFDM 16 QAM	135@67	22.23	19.73	0.0940
77	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	22.01	19.51	0.0893
77	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@268	21.85	19.35	0.0861
77	15	50	635000	3525	DFT-s-OFDM 64 QAM	135@67	20.83	18.33	0.0681
77	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	21.01	18.51	0.0710
77	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@268	20.82	18.32	0.0679
77	15	50	635000	3525	DFT-s-OFDM 256 QAM	135@67	18.85	16.35	0.0432
77	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	18.8	16.3	0.0427
77	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@268	18.67	16.17	0.0414
77	15	50	635000	3525	CP-OFDM QPSK	135@67	21.86	19.36	0.0863
77	15	50	635000	3525	CP-OFDM QPSK	1@1	21.68	19.18	0.0828
77	15	50	635000	3525	CP-OFDM QPSK	1@268	21.52	19.02	0.0798

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## Transmitter Conducted Output Power And EIRP (Ant. 11), (GT-LC)=-2.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	23.07	20.57	0.1140
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	22.11	19.61	0.0914
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.07	20.57	0.1140
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.12	19.62	0.0916
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	23.22	20.72	0.1180
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	22.21	19.71	0.0935
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	23.08	20.58	0.1143
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	22.07	19.57	0.0906
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.05	20.55	0.1135
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.05	19.55	0.0902
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.2	20.7	0.1175
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.14	19.64	0.0920
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	23.02	20.52	0.1127
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	22.02	19.52	0.0895
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23	20.5	0.1122
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.97	19.47	0.0885
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.19	20.69	0.1172
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.22	19.72	0.0938
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.65	20.15	0.1035
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	21.71	19.21	0.0834
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.69	20.19	0.1045
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.77	19.27	0.0845
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	22.77	20.27	0.1064
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	21.94	19.44	0.0879
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	22.92	20.42	0.1102
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	21.9	19.4	0.0871
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.95	20.45	0.1109

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.96	19.46	0.0883
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	22.96	20.46	0.1112
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	21.97	19.47	0.0885
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.83	20.33	0.1079
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	21.82	19.32	0.0855
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.93	20.43	0.1104
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.98	19.48	0.0887
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	22.88	20.38	0.1091
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	21.89	19.39	0.0869
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	22.58	20.08	0.1019
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	21.64	19.14	0.0820
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.59	20.09	0.1021
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.67	19.17	0.0826
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	22.75	20.25	0.1059
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	21.79	19.29	0.0849
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	22.51	20.01	0.1002
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	21.57	19.07	0.0807
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.52	20.02	0.1005
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.62	19.12	0.0817
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	22.57	20.07	0.1016
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	21.64	19.14	0.0820
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.23	20.73	0.1183
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.37	19.87	0.0971
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	22.17	19.67	0.0927
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.14	20.64	0.1159
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.36	19.86	0.0968
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.2	19.7	0.0933
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	22.1	19.6	0.0912
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.32	18.82	0.0762
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	21.15	18.65	0.0733
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	20.83	18.33	0.0681



NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.23	17.73	0.0593
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	20.11	17.61	0.0577
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	18.79	16.29	0.0426
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	17.92	15.42	0.0348
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	17.68	15.18	0.0330
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	21.8	19.3	0.0851
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.21	18.71	0.0743
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.03	18.53	0.0713

# FR1 N78

## Transmitter Conducted Output Power And EIRP (Ant. 11), (GT-LC)=-2.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	23.19	20.69	0.1172
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	22.44	19.94	0.0986
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.17	20.67	0.1167
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.38	19.88	0.0973
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@1	23.36	20.86	0.1219
78	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@1	22.55	20.05	0.1012
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	23.36	20.86	0.1219
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	22.54	20.04	0.1009
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.27	20.77	0.1194
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.52	20.02	0.1005
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.52	21.02	0.1265
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.81	20.31	0.1074
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@1	23.35	20.85	0.1216
78	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	1@1	22.52	20.02	0.1005
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.26	20.76	0.1191
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.47	19.97	0.0993
78	15	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.46	20.96	0.1247
78	15	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.6	20.1	0.1023
78	15	30	631000	3465	DFT-s-OFDM QPSK	1@1	23.07	20.57	0.1140
78	15	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	22.3	19.8	0.0955
78	15	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.11	20.61	0.1151
78	15	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.23	19.73	0.0940
78	15	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.22	20.72	0.1180
78	15	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	22.42	19.92	0.0982
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.79	20.29	0.1069
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	22.03	19.53	0.0897
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.82	20.32	0.1076

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.05	19.55	0.0902
78	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@1	22.93	20.43	0.1104
78	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@1	22.11	19.61	0.0914
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	135@67	23.4	20.9	0.1230
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@1	23.1	20.6	0.1148
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@268	22.96	20.46	0.1112
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	135@67	23.53	21.03	0.1268
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@1	23.13	20.63	0.1156
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@268	23.03	20.53	0.1130
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	135@67	22.37	19.87	0.0971
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@1	22.45	19.95	0.0989
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@268	22.3	19.8	0.0955
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	135@67	21.06	18.56	0.0718
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@1	20.97	18.47	0.0703
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@268	20.84	18.34	0.0682
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	135@67	18.98	16.48	0.0445
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@1	18.79	16.29	0.0426
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@268	18.67	16.17	0.0414
78	15	50	631667	3475.005	CP-OFDM QPSK	135@67	22.03	19.53	0.0897
78	15	50	631667	3475.005	CP-OFDM QPSK	1@1	21.79	19.29	0.0849
78	15	50	631667	3475.005	CP-OFDM QPSK	1@268	21.66	19.16	0.0824
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.39	20.89	0.1227
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.14	20.64	0.1159
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@268	23.1	20.6	0.1148
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.41	20.91	0.1233
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.17	20.67	0.1167
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@268	23.17	20.67	0.1167
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	22.39	19.89	0.0975
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.5	20	0.1000
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@268	22.48	19.98	0.0995
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	21.07	18.57	0.0719

NR Band	SCS (kHz)	Bandwidth (MHz)	Arcfn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.05	18.55	0.0716
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@268	21.03	18.53	0.0713
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	18.99	16.49	0.0446
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.85	16.35	0.0432
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@268	18.82	16.32	0.0429
78	15	50	633334	3500.01	CP-OFDM QPSK	135@67	22.01	19.51	0.0893
78	15	50	633334	3500.01	CP-OFDM QPSK	1@1	21.83	19.33	0.0857
78	15	50	633334	3500.01	CP-OFDM QPSK	1@268	21.83	19.33	0.0857
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	135@67	23.5	21	0.1259
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	23.07	20.57	0.1140
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@268	23.08	20.58	0.1143
78	15	50	635000	3525	DFT-s-OFDM QPSK	135@67	23.52	21.02	0.1265
78	15	50	635000	3525	DFT-s-OFDM QPSK	1@1	23.15	20.65	0.1161
78	15	50	635000	3525	DFT-s-OFDM QPSK	1@268	23.19	20.69	0.1172
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	135@67	22.49	19.99	0.0998
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	22.44	19.94	0.0986
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@268	22.5	20	0.1000
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	135@67	21.18	18.68	0.0738
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	20.94	18.44	0.0698
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@268	21	18.5	0.0708
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	135@67	19.15	16.65	0.0462
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	18.77	16.27	0.0424
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@268	18.83	16.33	0.0430
78	15	50	635000	3525	CP-OFDM QPSK	135@67	22.13	19.63	0.0918
78	15	50	635000	3525	CP-OFDM QPSK	1@1	21.79	19.29	0.0849
78	15	50	635000	3525	CP-OFDM QPSK	1@268	21.6	19.1	0.0813

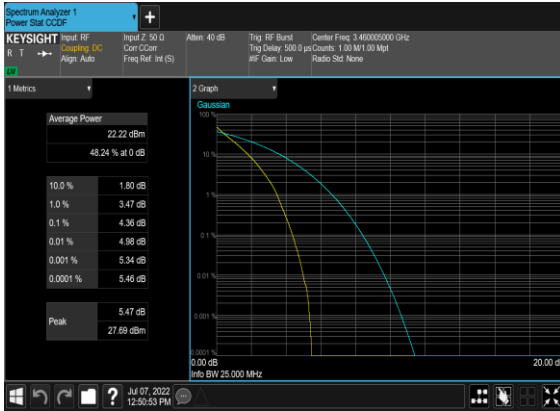
## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0025	PASS	NV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0045	PASS	LV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0023	PASS	HV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0069	PASS	-30°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0064	PASS	-20°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0045	PASS	-10°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0031	PASS	0°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0021	PASS	10°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0025	PASS	20°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0034	PASS	30°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0058	PASS	40°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0020	PASS	50°C

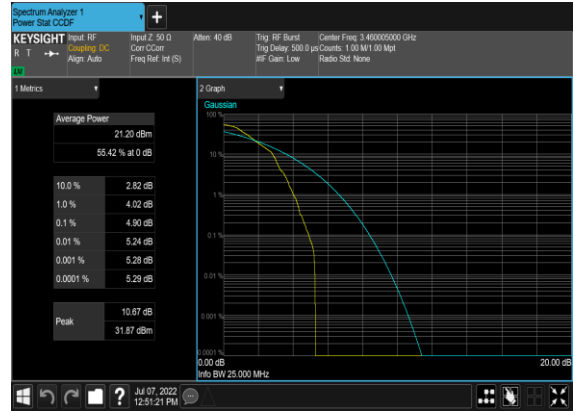
## Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	100@0	4.36	13	PASS
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	1@0	4.9	13	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	100@0	5.59	13	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	6.37	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	4.36	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	4.87	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	5.61	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	5.9	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	100@0	4.34	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	5.07	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	100@0	5.59	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	5.74	13	PASS

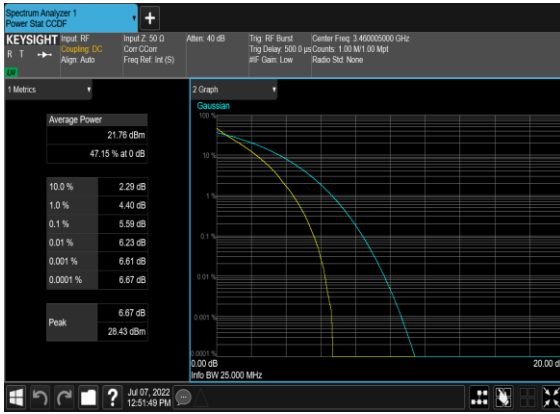
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Low\_CH



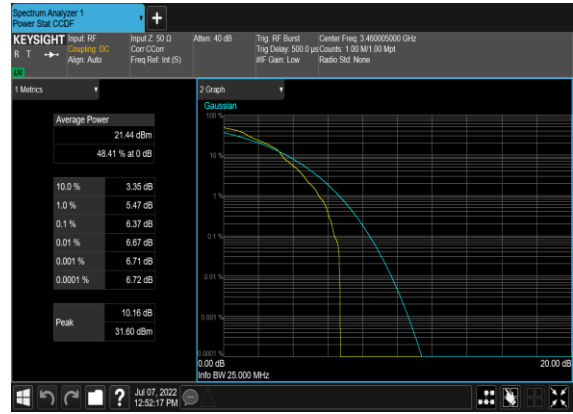
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Low\_CH



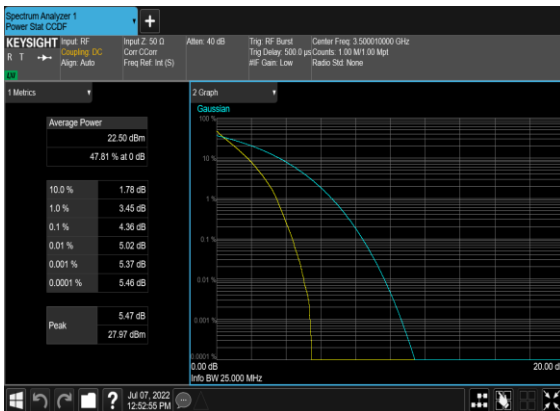
N78(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



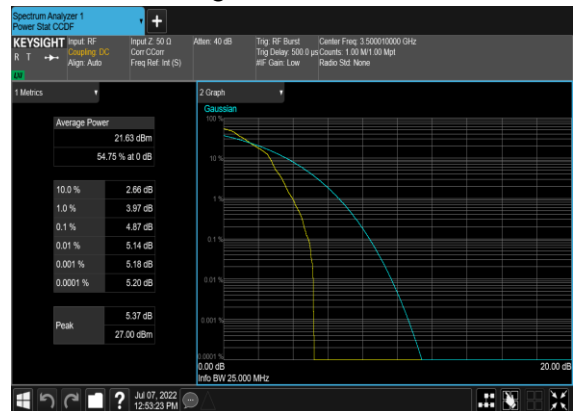
N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



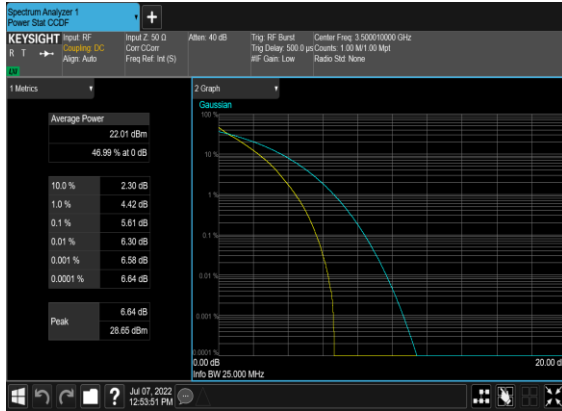
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



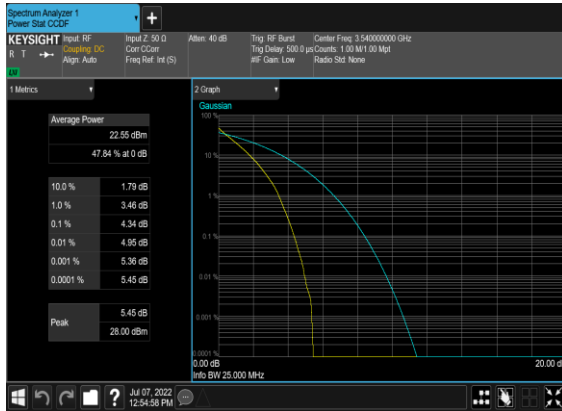
N78(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



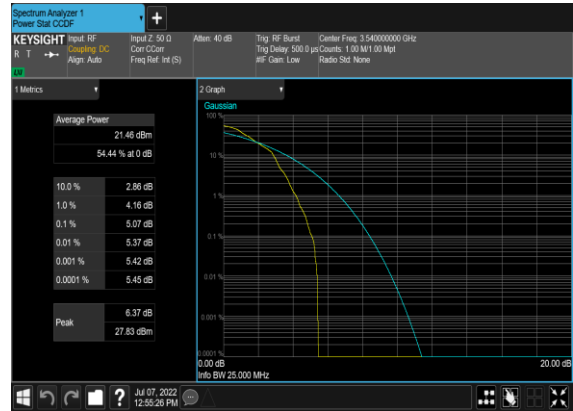
N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



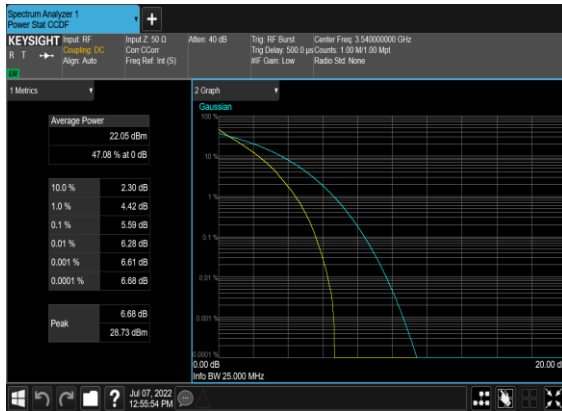
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_High\_CH



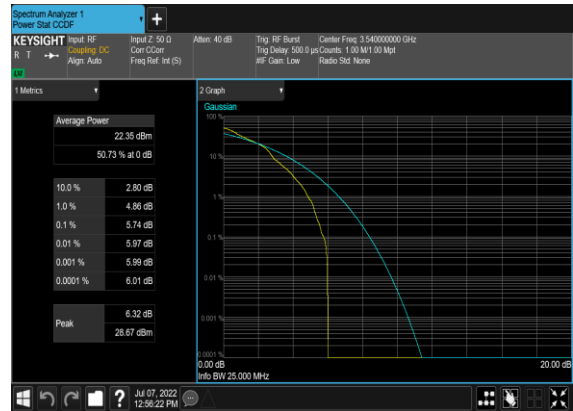
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_High\_CH



N78(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



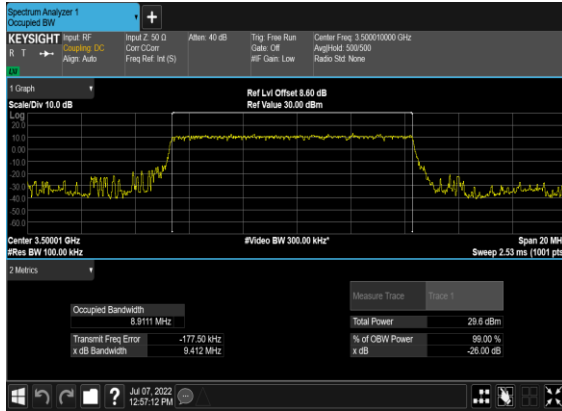


## Occupied Bandwidth

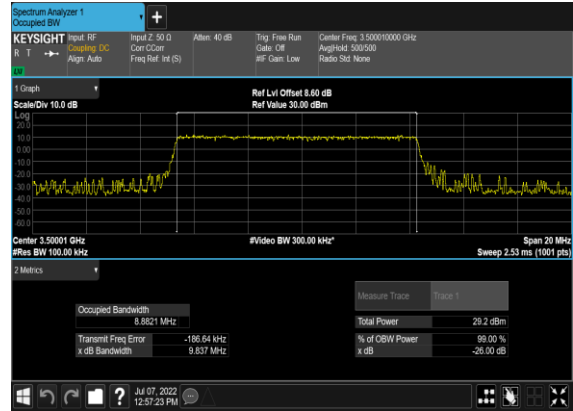
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	8.9111	9.412
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.8821	9.837
78	15	10	633334	3500.01	CP-OFDM QPSK	52@0	9.2789	9.822
78	15	10	633334	3500.01	CP-OFDM 16 QAM	52@0	9.28	10.49
78	15	10	633334	3500.01	CP-OFDM 64 QAM	52@0	9.268	9.728
78	15	10	633334	3500.01	CP-OFDM 256 QAM	52@0	9.2732	9.976
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	13.365	13.95
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	75@0	13.397	14.13
78	15	15	633334	3500.01	CP-OFDM QPSK	79@0	14.115	14.68
78	15	15	633334	3500.01	CP-OFDM 16 QAM	79@0	14.093	14.68
78	15	15	633334	3500.01	CP-OFDM 64 QAM	79@0	14.119	14.67
78	15	15	633334	3500.01	CP-OFDM 256 QAM	79@0	14.109	14.72
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	17.862	18.79
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	17.847	18.74
78	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.9	19.79
78	15	20	633334	3500.01	CP-OFDM 16 QAM	106@0	18.88	19.87
78	15	20	633334	3500.01	CP-OFDM 64 QAM	106@0	18.885	19.66
78	15	20	633334	3500.01	CP-OFDM 256 QAM	106@0	18.869	19.69
78	15	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	160@0	28.55	29.62
78	15	30	633334	3500.01	DFT-s-OFDM QPSK	160@0	28.563	29.57
78	15	30	633334	3500.01	CP-OFDM QPSK	160@0	28.512	29.6
78	15	30	633334	3500.01	CP-OFDM 16 QAM	160@0	28.55	29.64
78	15	30	633334	3500.01	CP-OFDM 64 QAM	160@0	28.556	29.72

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	15	30	633334	3500.01	CP-OFDM 256 QAM	160@0	28.564	29.51
78	15	40	633334	3500.01	DFT-s- OFDM PI/2 BPSK	216@0	38.584	39.84
78	15	40	633334	3500.01	DFT-s- OFDM QPSK	216@0	38.55	40.52
78	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.502	39.92
78	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.49	39.86
78	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.499	39.89
78	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.507	39.88
78	15	50	633334	3500.01	DFT-s- OFDM PI/2 BPSK	270@0	48.167	49.77
78	15	50	633334	3500.01	DFT-s- OFDM QPSK	270@0	48.015	49.75
78	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.113	49.8
78	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.216	49.79
78	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.118	49.89
78	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.127	49.8

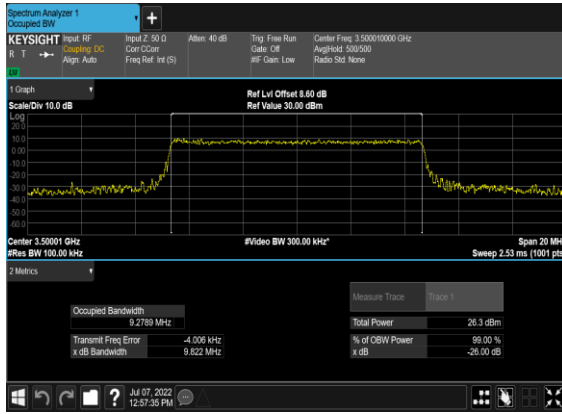
N78(10M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Outer\_Full\_Mid\_CH



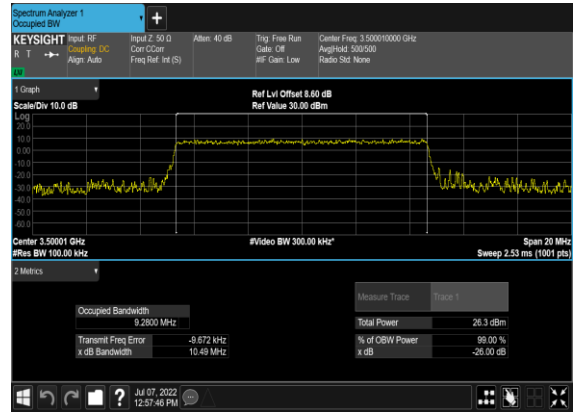
N78(10M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



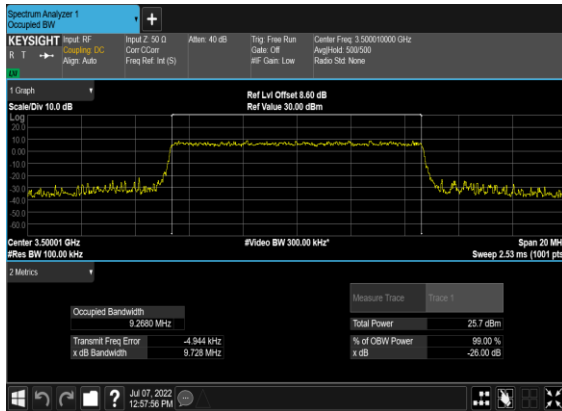
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



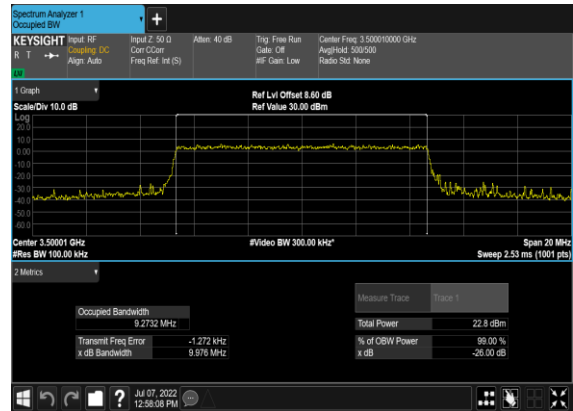
N78(10M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



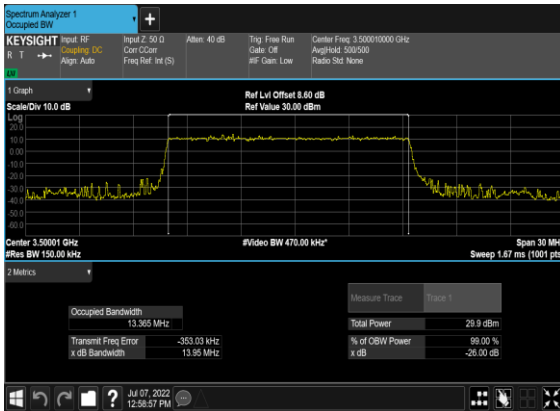
N78(10M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



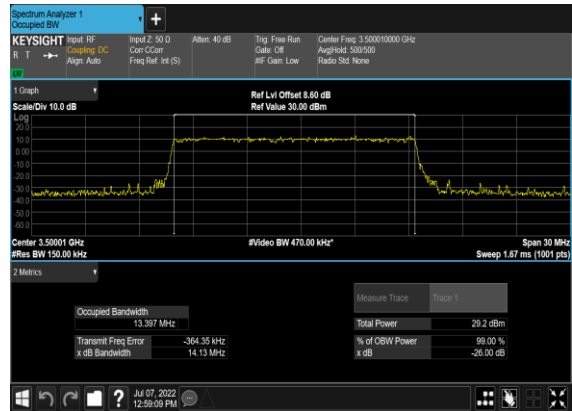
N78(10M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH



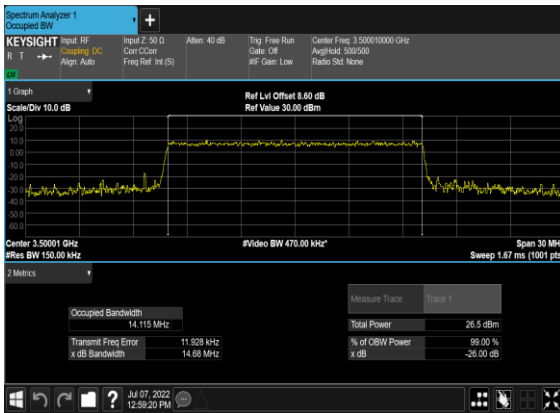
### N78(15M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



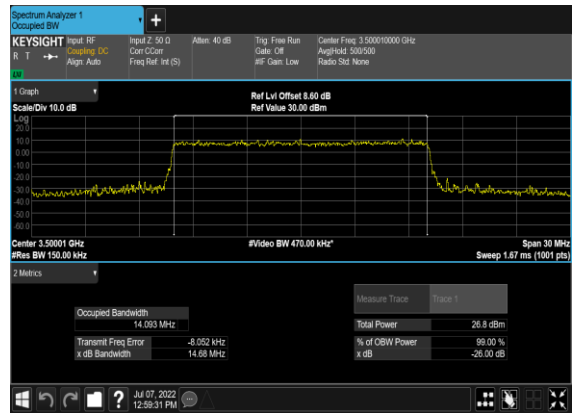
### N78(15M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



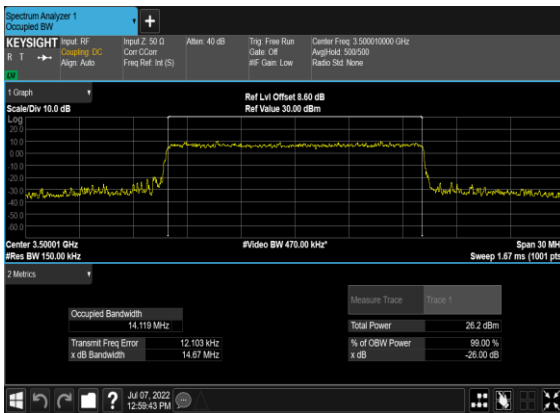
### N78(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



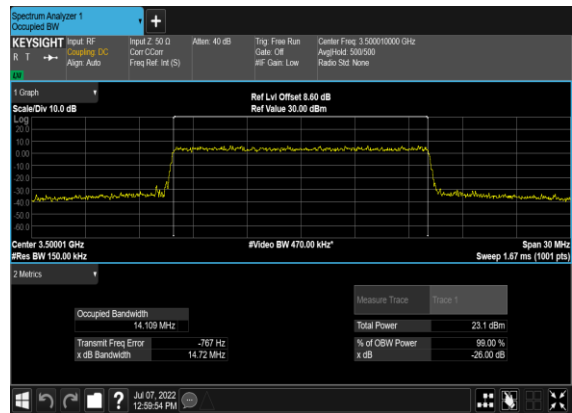
### N78(15M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



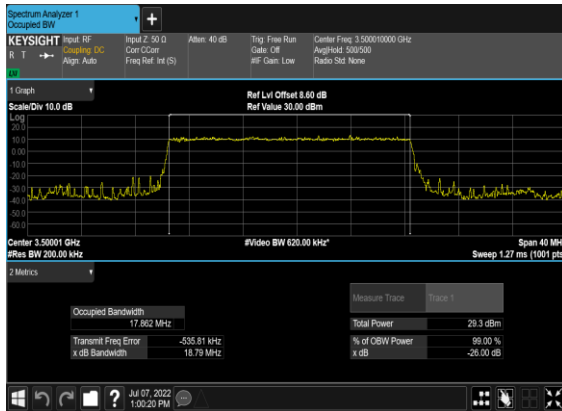
### N78(15M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



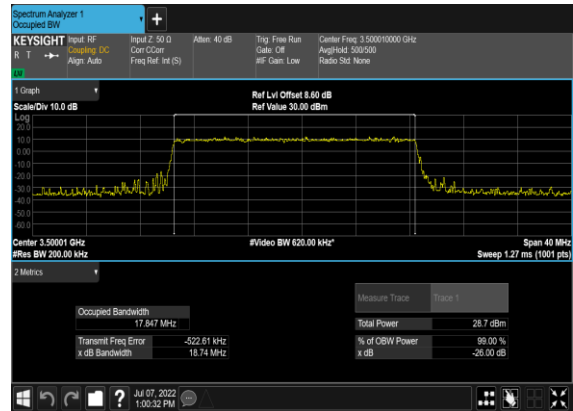
### N78(15M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



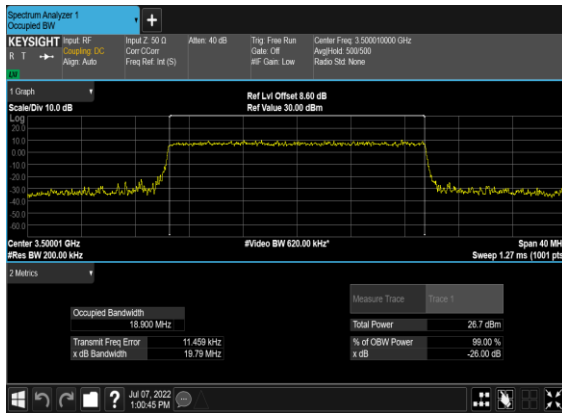
### N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



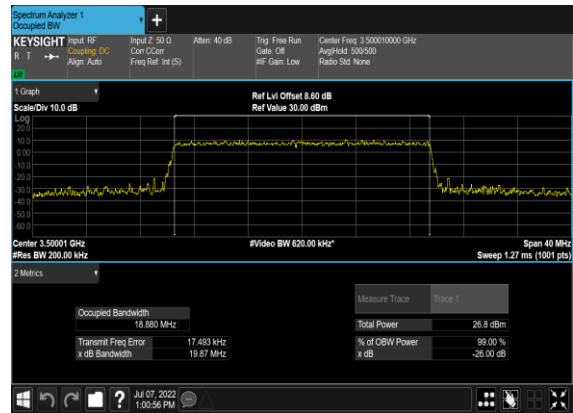
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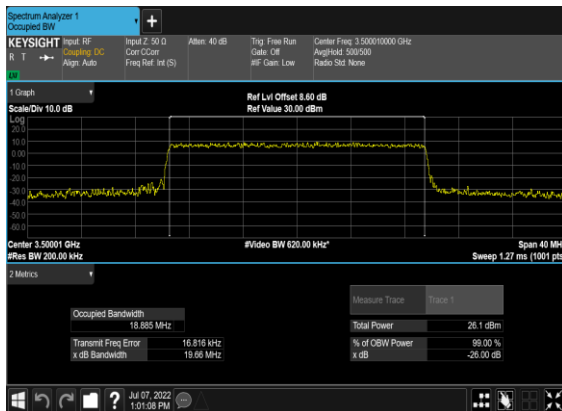
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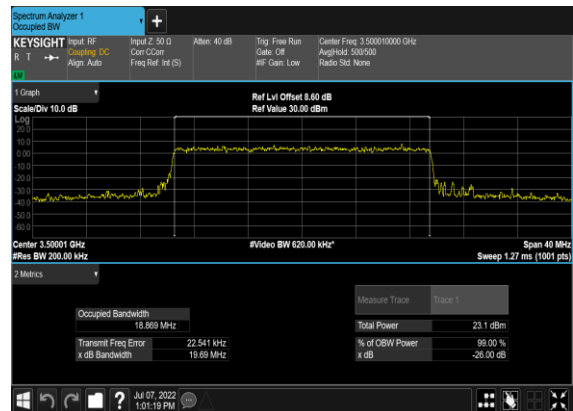
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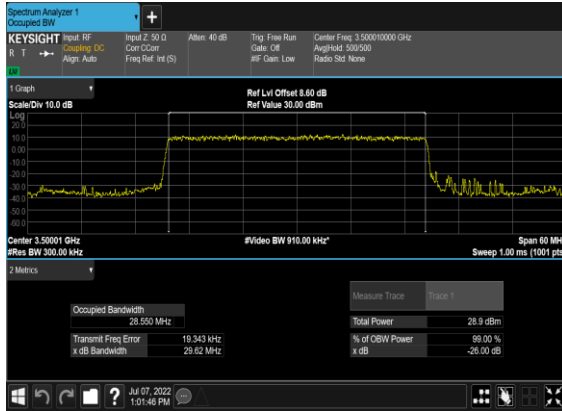
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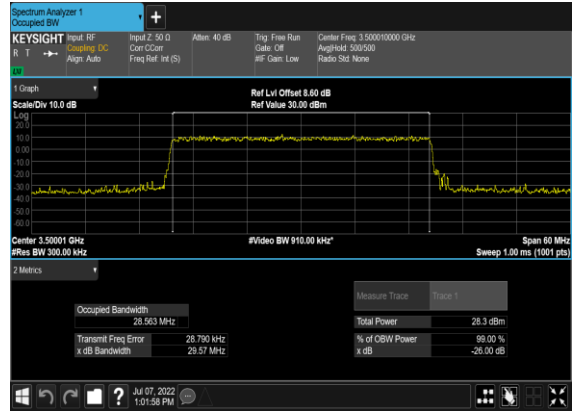
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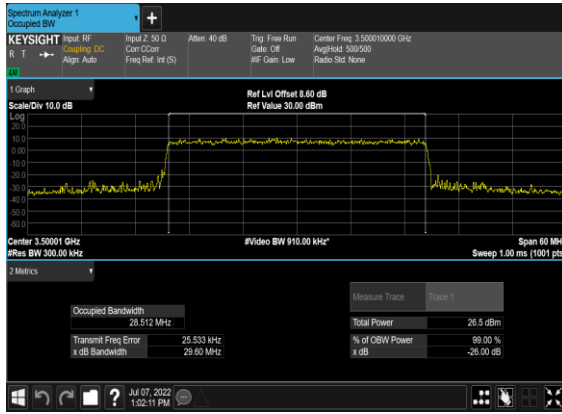
### N78(30M)\_DFT-s-OFDM\_PI-2-BPSK\_Outer\_Full\_Mid\_CH



### N78(30M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



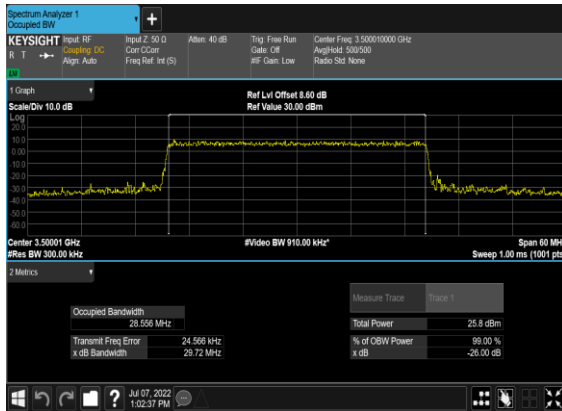
### N78(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



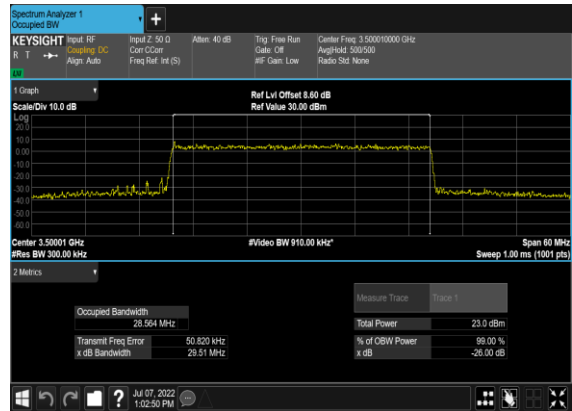
### N78(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



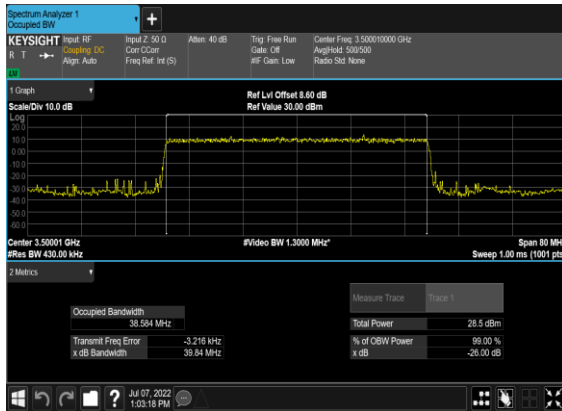
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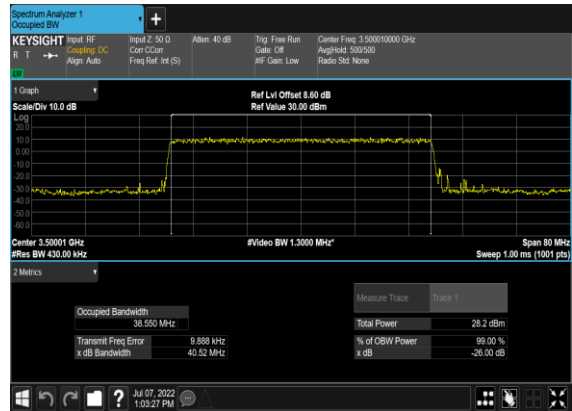
### N78(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



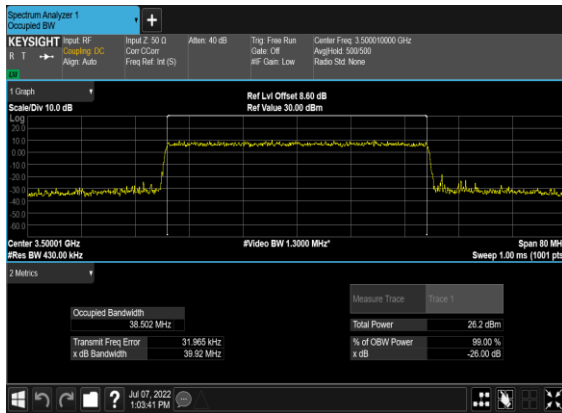
### N78(40M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



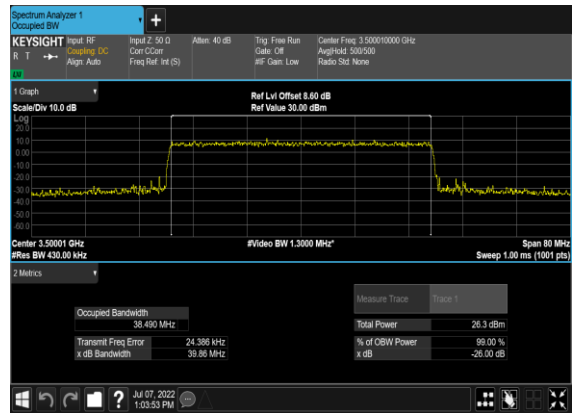
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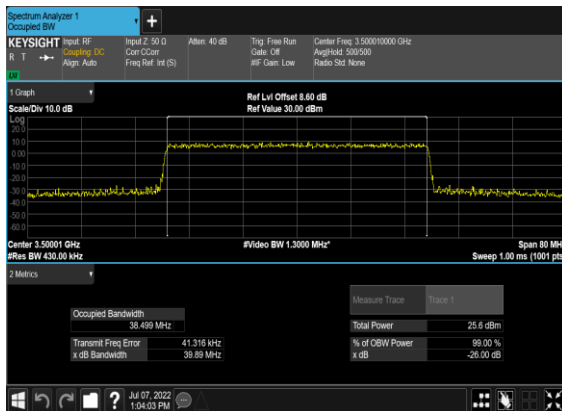
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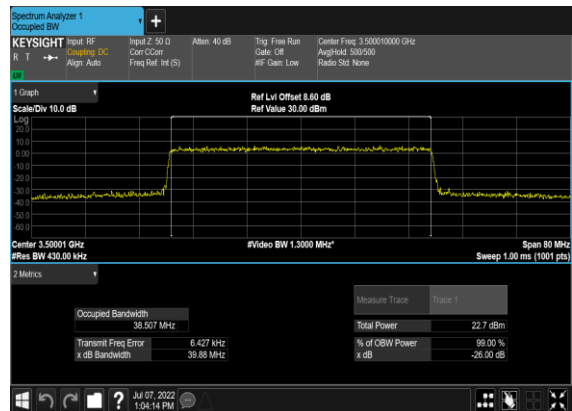
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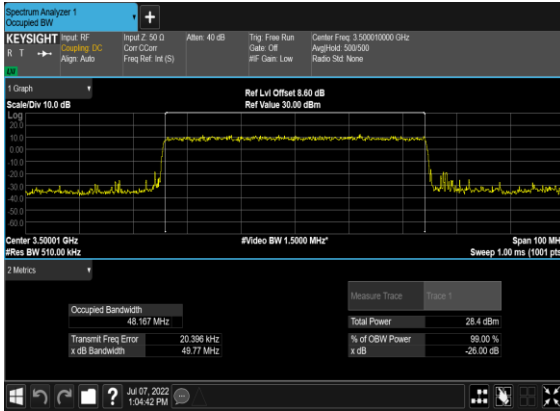
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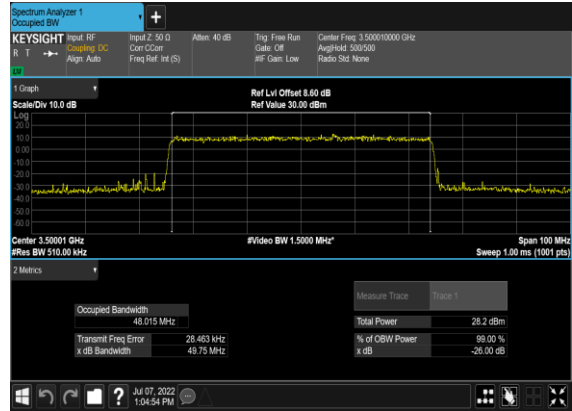
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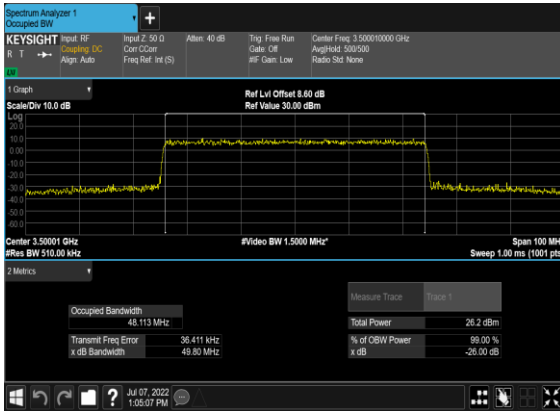
### N78(50M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



### N78(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



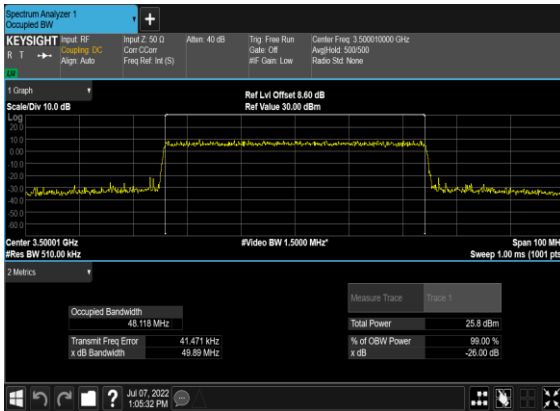
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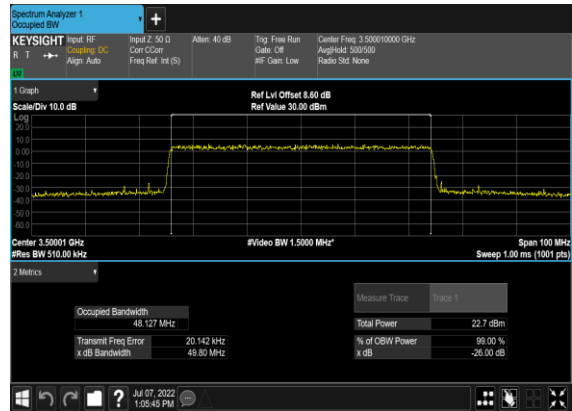
### N78(50M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



### N78(50M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



### N78(50M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH





## Conducted Spurious Emissions

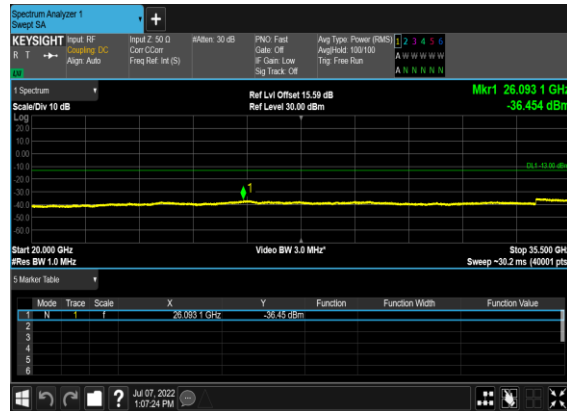
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

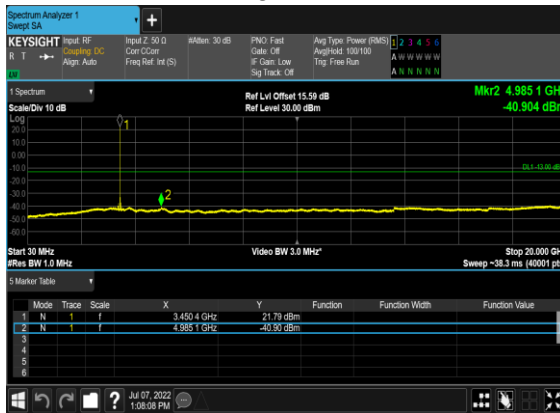
### N78(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



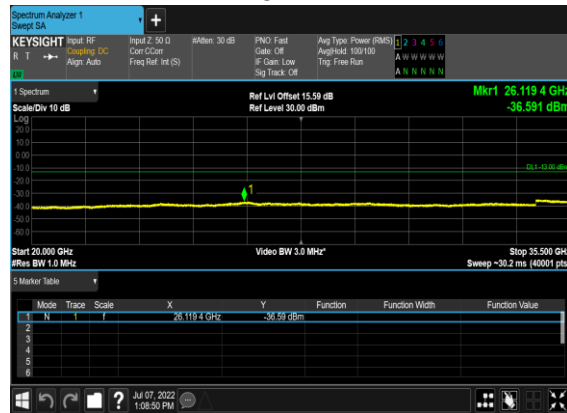
### N78(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



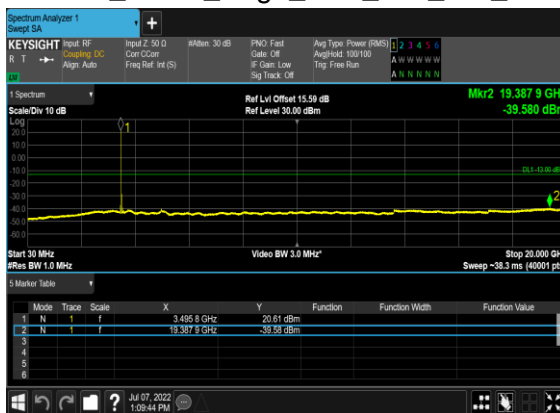
### N78(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



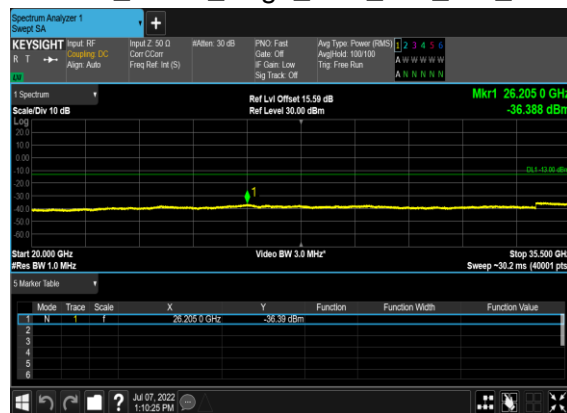
### N78(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



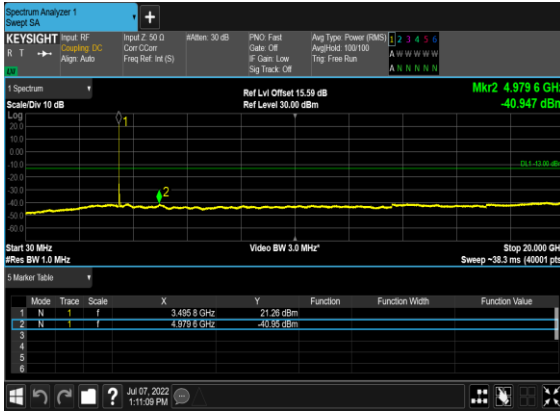
### N78(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



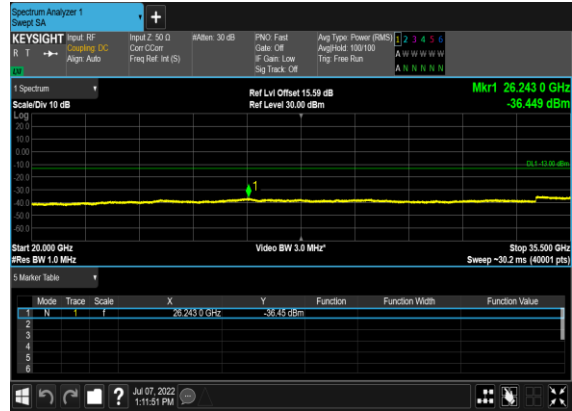
### N78(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



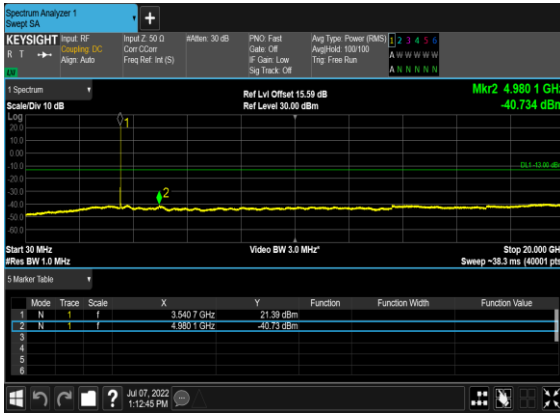
N78(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



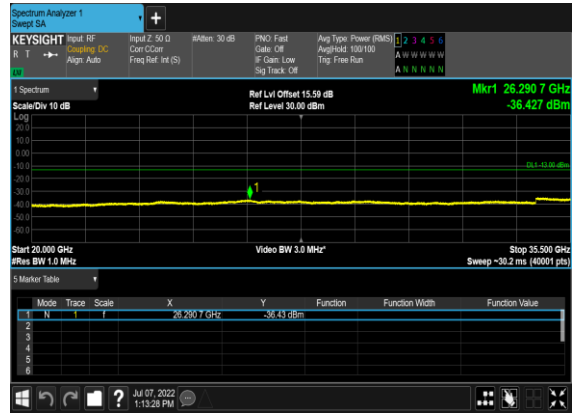
N78(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



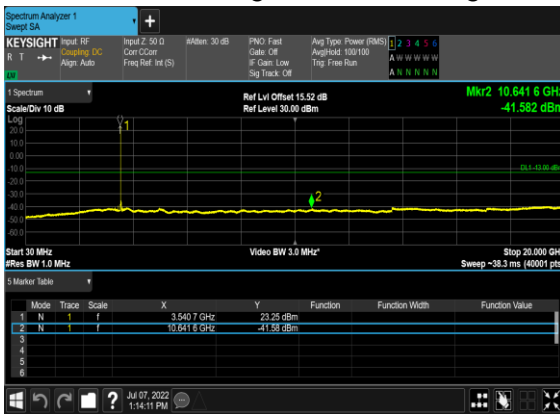
N78(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



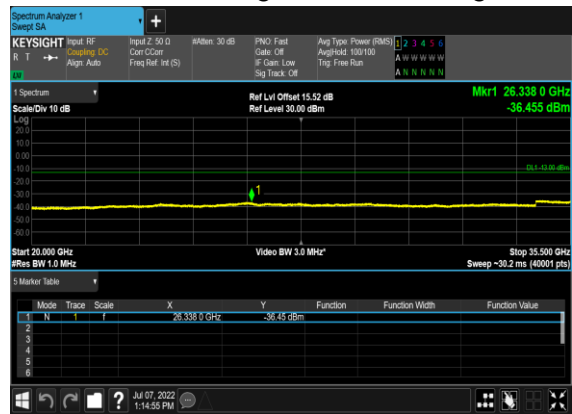
N78(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



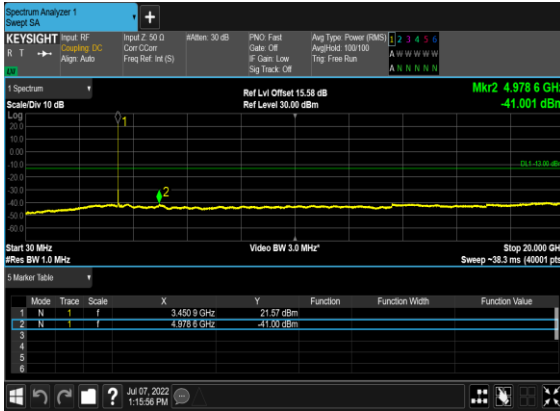
N78(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



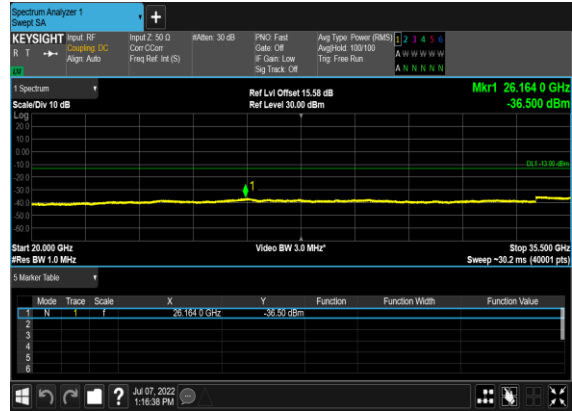
N78(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



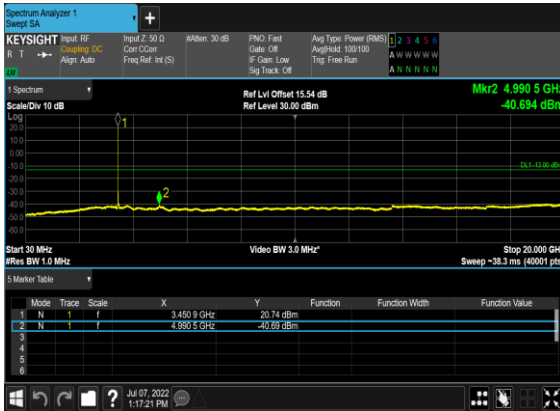
### N78(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



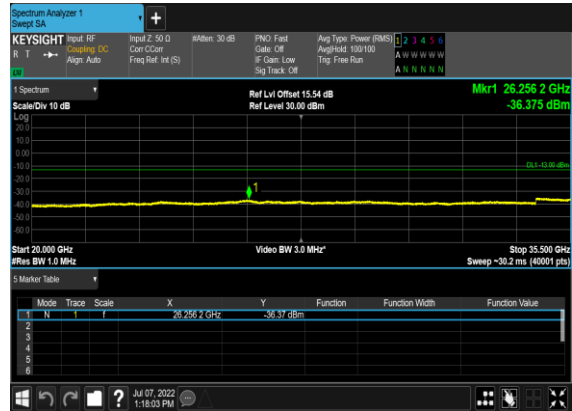
### N78(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



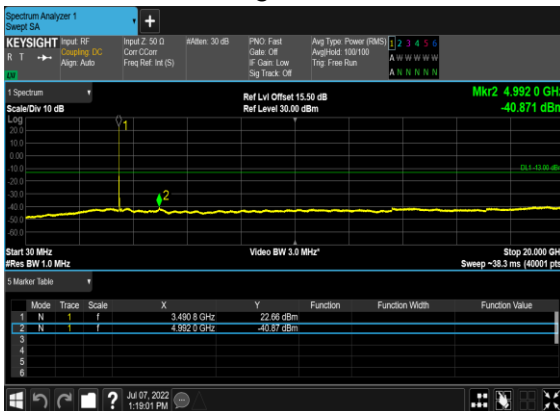
### N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



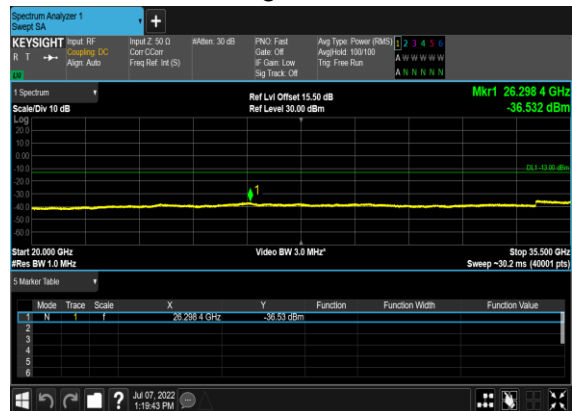
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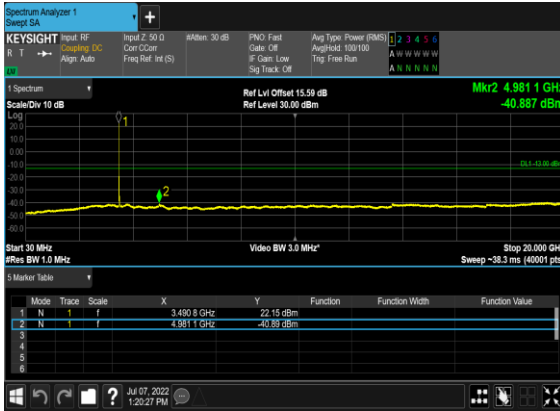
### N78(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



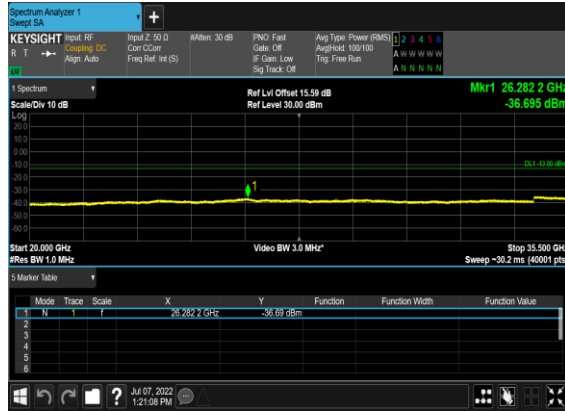
### N78(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



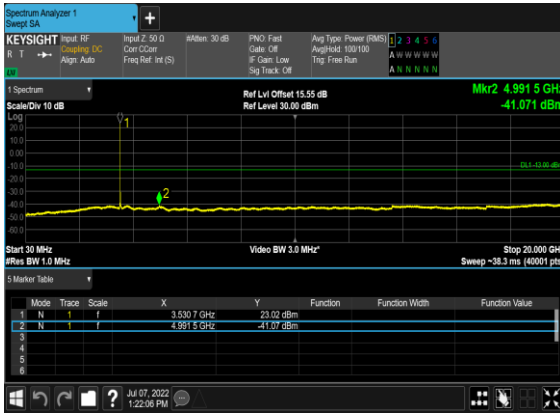
### N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



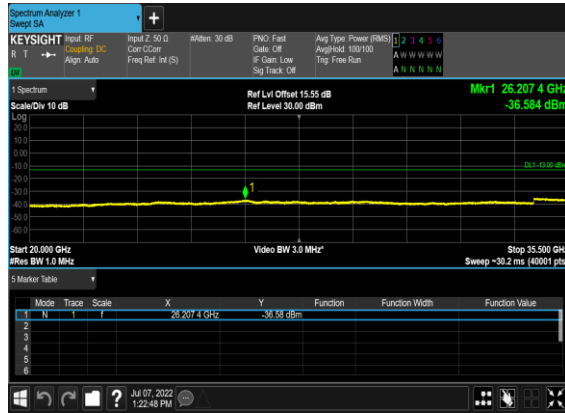
### N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



### N78(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



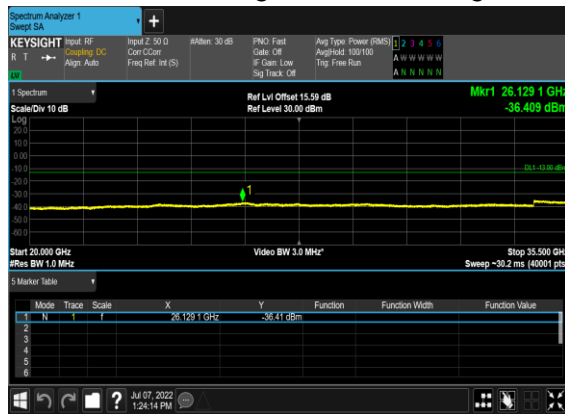
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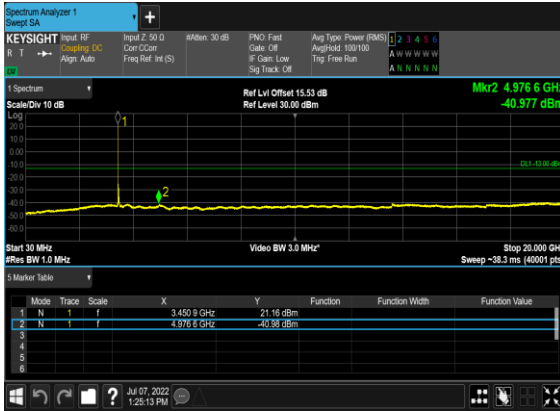
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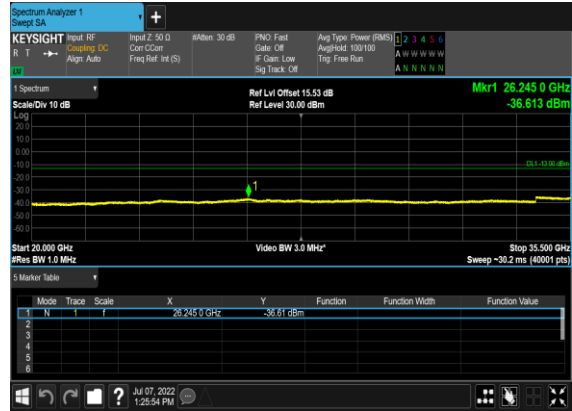
### N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N78(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



N78(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



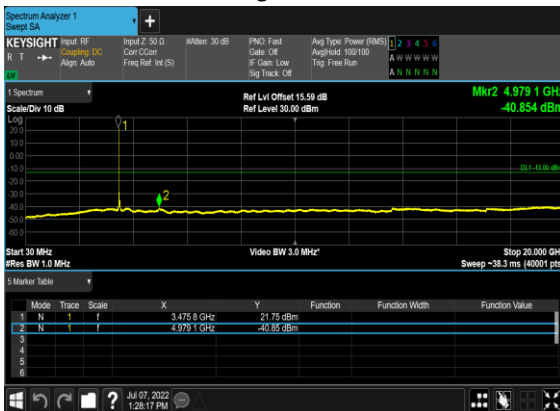
N78(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



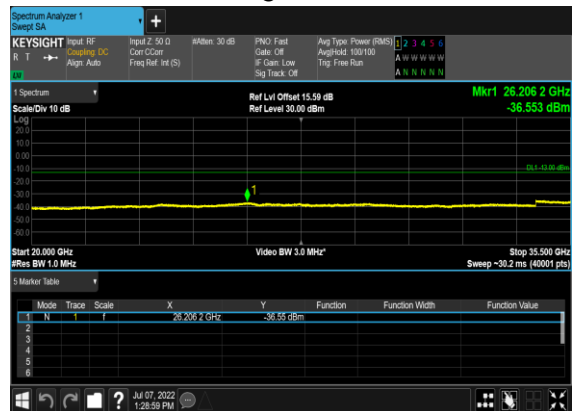
N78(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N78(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



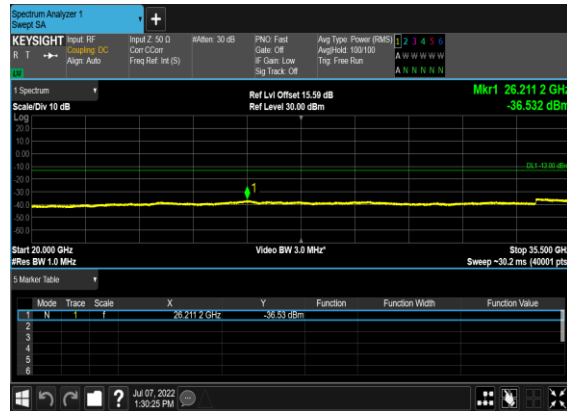
N78(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



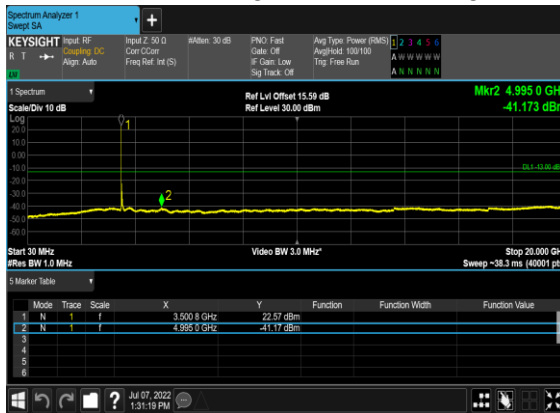
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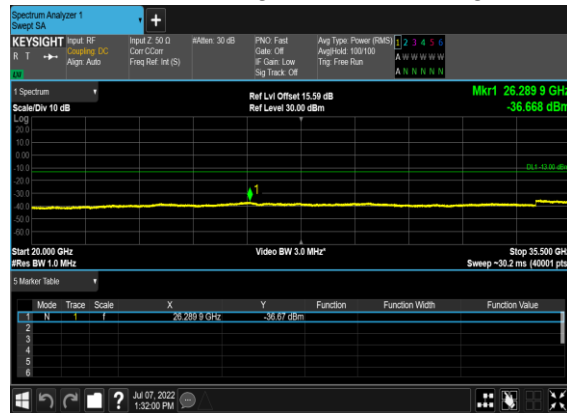
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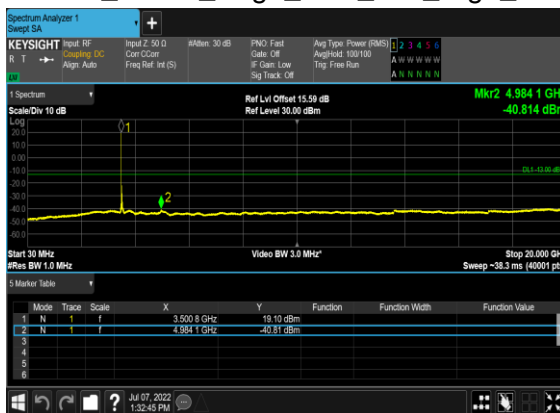
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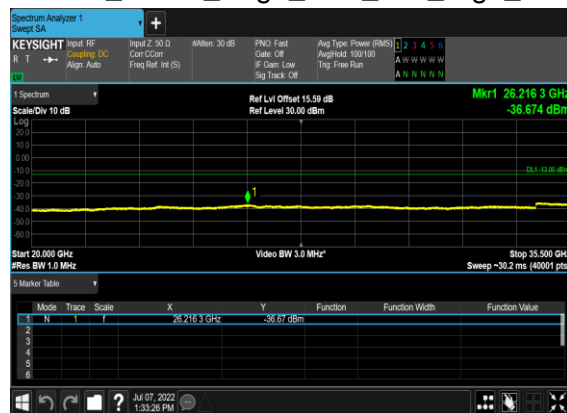
### N78(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



### N78(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



### N78(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH





## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@51	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@51	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	100@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	100@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	270@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@269	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@269	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	270@0	see graph	PASS