FCC RF Test Report

APPLICANT	: OnePlus Technology (Shenzhen) Co.,Ltd.
EQUIPMENT	: Smart Phone
BRAND NAME	: ONEPLUS
MODEL NAME	: NE2217, NE2215
FCC ID	: 2ABZ2-AA438
STANDARD	: 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Nov. 10, 2021 ~ Nov. 30, 2021

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

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

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

Sporton International (ShenZhen) Inc.

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
FG1O1920J	Rev. 01	Initial issue of report	Dec. 17, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
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	Reporting Only	PASS	-
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 36.37 dB at 13807.08 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

OnePlus Technology (Shenzhen) Co.,Ltd.
18C02, 18C03, 18C04, 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co.,Ltd.
18C02, 18C03, 18C04, 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	NE2217, NE2215
FCC ID	2ABZ2-AA438
IMEI Code	Conducted : 861679050031250 Radiation : 861679050034064
HW Version	11
SW Version	NE2217_11_A.02
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz
Bandwidth	5G NR n77 : 20MHz / 30MHz / 40MHz / 60MHz / 80MHz / 100MHz
SCS	30kHz
Maximum Output Power to Antenna	**<Ant. 5>** n77: 26.58 dBm
Antenna Gain	**<Ant. 5>** n77: -2.0 dBi **<Ant. 6>** n77: -2.0 dBi **<Ant. 10>** n77: -2.0 dBi **<Ant. 13>** n77: -2.0 dBi
Type of Modulation	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 of Ant. 5 is shown in the report.
2. 5G NR n77 support SA and NSA mode. The whole testing has assessed NSA mode for n77 by referring to the higher conducted power for conducted test items.
3. For NSA mode of all EN-DC combination, we only show the combination of the maximum power among all NSA combinations in the report.
4. The EN-DC mode combination could be referred to the product spec.
5. 5G NR n77 supports HPUE.

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 (EN DC_5A-n77A)		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)
20	3460.02 ~ 3540.00	0.2864	18M2G7D	0.2291	18M3W7D
30	3465.00 ~ 3534.99	0.2838	27M9G7D	0.2317	27M9W7D
40	3470.01 ~ 3529.98	0.2864	37M8G7D	0.2371	37M9W7D
60	3480.00 ~ 3519.99	0.2735	58M0G7D	0.2280	57M8W7D
80	3490.02 ~ 3510.00	0.2636	77M5G7D	0.2178	77M6W7D
100	3500.01 ~ 3500.01	0.2871	97M4G7D	0.2158	97M5W7D

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

1.7 Testing Site

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

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

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8 Test Software

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

1.9 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 Subpart Q
- 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.

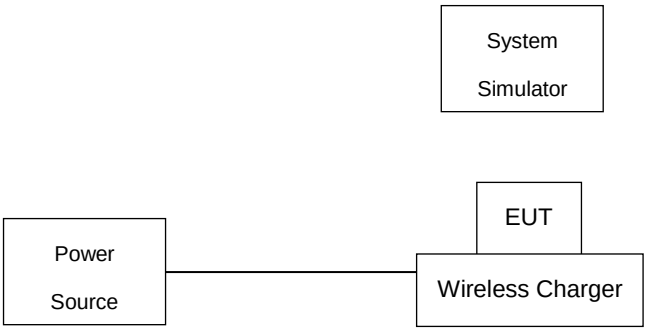
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	20M, 30M, 40M, 60M, 80M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
E.I.R.P	5G n77	20M, 30M, 40M, 60M, 80M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	20M, 30M, 40M, 60M, 80M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M

Note:

1. The mark "**v** " means that this configuration is chosen for testing
2. The mark "-" means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
4. Based on engineering evaluation, only the worst modulations test results are shown in the report.

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

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

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Wireless Charger	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.71 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 1.74 + 10 = 11.74 (dB)

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	-
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
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	3540.00

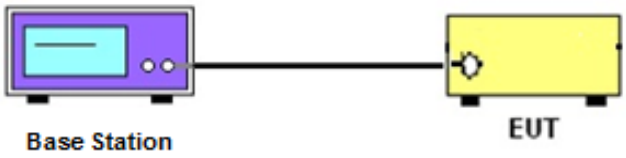
3 Conducted Test Items

3.1 Measuring Instruments

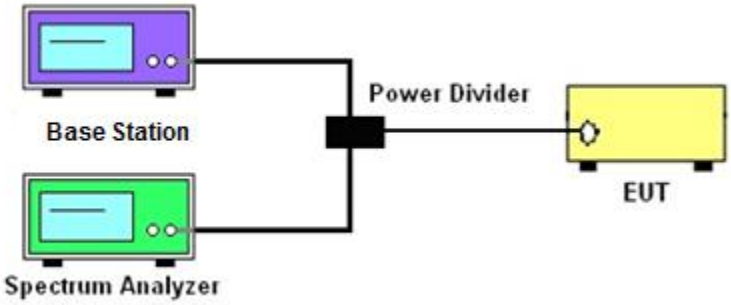
See list of measuring instruments of this test report.

3.2 Test Setup

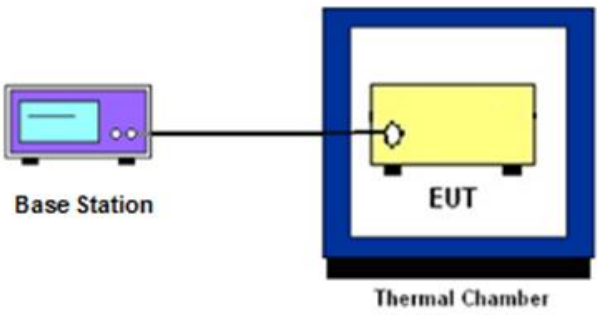
3.2.1 Conducted Output Power



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 ≥ 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 ≥ 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 30MHz up to a frequency including its 10^{th} 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°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±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

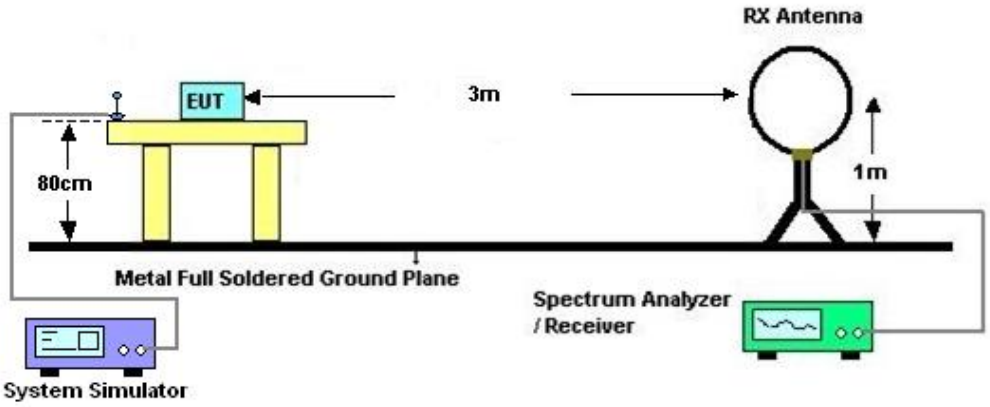
4 Radiated Test Items

4.1 Measuring Instruments

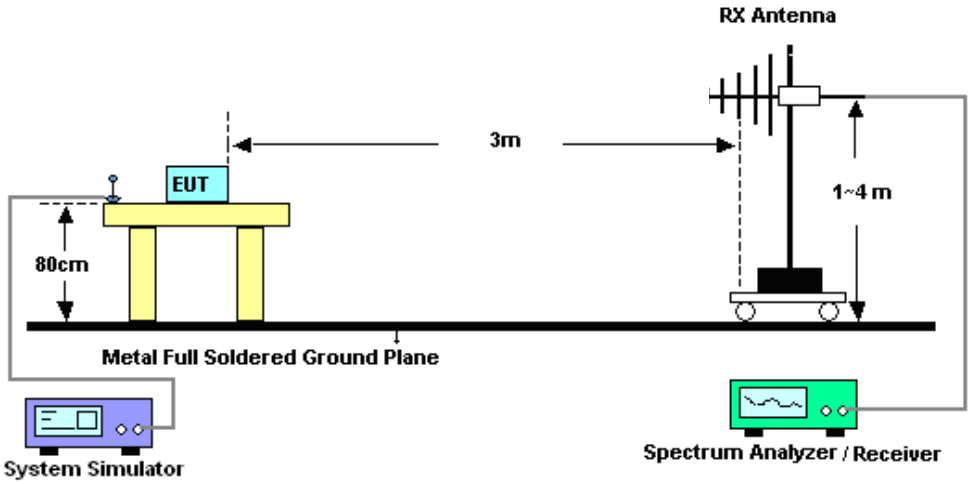
See list of measuring instruments of this test report.

4.2 Test Setup

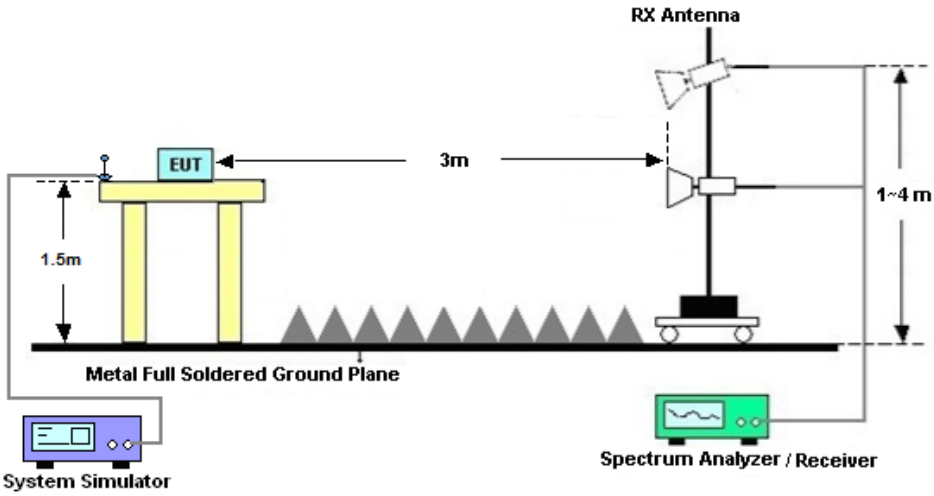
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges 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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = 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. 08, 2021	Nov. 10, 2021~ Nov. 21, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Nov. 10, 2021~ Nov. 21, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Nov. 10, 2021~ Nov. 21, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 25, 2021	Nov. 10, 2021~ Nov. 21, 2021	Oct. 24, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 13, 2021	Nov. 30, 2021	Jul. 13, 2022	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Nov. 30, 2021	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2021	Nov. 30, 2021	Jul. 14, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2021	Nov. 30, 2021	Jul. 24, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 13, 2021	Nov. 30, 2021	Jul. 13, 2022	Radiation (03CH02-SZ)
LF Amplifier	Bur35407geon	BPA-530	102211	0.01~3000Mhz	Oct. 22, 2021	Nov. 30, 2021	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	Nov. 30, 2021	Oct. 21, 2022	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Nov. 30, 2021	Apr. 10, 2022	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Nov. 30, 2021	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Nov. 30, 2021	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Nov. 30, 2021	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.47dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.31dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.72dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Jason Zhang	**Temperature :**	24~26℃
		Relative Humidity :	50~53%

Software Version: 21.02.111001

FR1 N77(ANT5)

LTE Band: 5(ANT1), LTE BW: 10M, LTE ARFCN: Mid

Conducted Power and EIRP

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	26.4	24.4	0.2754
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.45	24.45	0.2786
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	26.41	24.41	0.2761
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.41	24.41	0.2761
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.38	24.38	0.2742
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	26.36	24.36	0.2729
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	25.48	23.48	0.2228
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.5	23.5	0.2239
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	25.6	23.6	0.2291
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	24.01	22.01	0.1589
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	24.16	22.16	0.1644
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	24.1	22.1	0.1622
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.98	19.98	0.0995
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.98	19.98	0.0995
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	22.01	20.01	0.1002
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	25	23	0.1995
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.97	22.97	0.1982
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.98	22.98	0.1986
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	26.46	24.46	0.2793
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.41	24.41	0.2761
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	26.36	24.36	0.2729
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	26.25	24.25	0.2661
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.22	24.22	0.2642
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	26.16	24.16	0.2606
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	25.38	23.38	0.2178
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.33	23.33	0.2153

77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	25.39	23.39	0.2183
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	24.01	22.01	0.1589
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.12	22.12	0.1629
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	24.05	22.05	0.1603
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	22.05	20.05	0.1012
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.06	20.06	0.1014
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.95	19.95	0.0989
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.58	22.58	0.1811
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.78	22.78	0.1897
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.76	22.76	0.1888
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	26.46	24.46	0.2793
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	26.57	24.57	0.2864
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	26.5	24.5	0.2818
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	26.38	24.38	0.2742
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.26	24.26	0.2667
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	26.29	24.29	0.2685
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	25.44	23.44	0.2208
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.45	23.45	0.2213
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	25.47	23.47	0.2223
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	24.04	22.04	0.1600
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	24.16	22.16	0.1644
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	24.08	22.08	0.1614
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	22.09	20.09	0.1021
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	22.18	20.18	0.1042
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	22.09	20.09	0.1021
77	30	20	636000	3540	CP-OFDM QPSK	25@12	24.66	22.66	0.1845
77	30	20	636000	3540	CP-OFDM QPSK	1@1	24.84	22.84	0.1923
77	30	20	636000	3540	CP-OFDM QPSK	1@49	24.92	22.92	0.1959
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	26.42	24.42	0.2767
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	26.47	24.47	0.2799
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	26.3	24.3	0.2692
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	26.46	24.46	0.2793
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.53	24.53	0.2838
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	26.32	24.32	0.2704

77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	25.55	23.55	0.2265
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.65	23.65	0.2317
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	25.44	23.44	0.2208
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	24.06	22.06	0.1607
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	24.19	22.19	0.1656
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	23.96	21.96	0.1570
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	21.95	19.95	0.0989
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	22.17	20.17	0.1040
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	21.96	19.96	0.0991
77	30	30	631000	3465	CP-OFDM QPSK	39@19	25.01	23.01	0.2000
77	30	30	631000	3465	CP-OFDM QPSK	1@1	25.1	23.1	0.2042
77	30	30	631000	3465	CP-OFDM QPSK	1@76	24.92	22.92	0.1959
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	26.14	24.14	0.2594
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.14	24.14	0.2594
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	26.06	24.06	0.2547
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	26.33	24.33	0.2710
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.34	24.34	0.2716
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	26.23	24.23	0.2649
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	25.4	23.4	0.2188
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.55	23.55	0.2265
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	25.45	23.45	0.2213
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.95	21.95	0.1567
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.08	22.08	0.1614
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	24	22	0.1585
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.84	19.84	0.0964
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.07	20.07	0.1016
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	21.91	19.91	0.0979
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	24.79	22.79	0.1901
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	24.84	22.84	0.1923
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	24.69	22.69	0.1858
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	26.19	24.19	0.2624
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	26.13	24.13	0.2588
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	26.13	24.13	0.2588
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	26.39	24.39	0.2748

77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.32	24.32	0.2704
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	26.33	24.33	0.2710
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	25.45	23.45	0.2213
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	25.51	23.51	0.2244
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	24.05	22.05	0.1603
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	24.2	22.2	0.1660
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	24.13	22.13	0.1633
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	21.96	19.96	0.0991
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	22.19	20.19	0.1045
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	22.07	20.07	0.1016
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	24.8	22.8	0.1905
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	24.88	22.88	0.1941
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	24.81	22.81	0.1910
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	26.47	24.47	0.2799
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	26.57	24.57	0.2864
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	26.41	24.41	0.2761
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26.38	24.38	0.2742
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.52	24.52	0.2831
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	26.38	24.38	0.2742
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25.48	23.48	0.2228
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.75	23.75	0.2371
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	25.62	23.62	0.2301
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	24	22	0.1585
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	24.3	22.3	0.1698
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	24.19	22.19	0.1656
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.97	19.97	0.0993
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	22.28	20.28	0.1067
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	22.19	20.19	0.1045
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24.95	22.95	0.1972
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	25.17	23.17	0.2075
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	24.98	22.98	0.1986
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	26.18	24.18	0.2618
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.18	24.18	0.2618

77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	26.04	24.04	0.2535
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	26.35	24.35	0.2723
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.38	24.38	0.2742
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	26.28	24.28	0.2679
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	25.4	23.4	0.2188
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.39	23.39	0.2183
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	25.27	23.27	0.2123
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.98	21.98	0.1578
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.21	22.21	0.1663
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	24.12	22.12	0.1629
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.91	19.91	0.0979
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.21	20.21	0.1050
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	22.15	20.15	0.1035
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.62	22.62	0.1828
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	24.87	22.87	0.1936
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	24.79	22.79	0.1901
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	26.25	24.25	0.2661
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	26.18	24.18	0.2618
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	26.11	24.11	0.2576
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	26.28	24.28	0.2679
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.28	24.28	0.2679
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	26.23	24.23	0.2649
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	25.38	23.38	0.2178
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.31	23.31	0.2143
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	25.27	23.27	0.2123
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	24.01	22.01	0.1589
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	24.25	22.25	0.1679
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	24.21	22.21	0.1663
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.96	19.96	0.0991
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	22.07	20.07	0.1016
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	22.12	20.12	0.1028
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.59	22.59	0.1816
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	24.82	22.82	0.1914
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	24.79	22.79	0.1901

77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	26.28	24.28	0.2679
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	26.37	24.37	0.2735
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	26.15	24.15	0.2600
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	26.31	24.31	0.2698
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.34	24.34	0.2716
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	26.12	24.12	0.2582
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	25.37	23.37	0.2173
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.58	23.58	0.2280
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	25.27	23.27	0.2123
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.92	21.92	0.1556
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	24.03	22.03	0.1596
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	23.79	21.79	0.1510
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.88	19.88	0.0973
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	22.04	20.04	0.1009
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	21.82	19.82	0.0959
77	30	60	632000	3480	CP-OFDM QPSK	81@40	24.68	22.68	0.1854
77	30	60	632000	3480	CP-OFDM QPSK	1@1	24.99	22.99	0.1991
77	30	60	632000	3480	CP-OFDM QPSK	1@160	24.63	22.63	0.1832
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	26.32	24.32	0.2704
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.31	24.31	0.2698
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	26.2	24.2	0.2630
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	26.17	24.17	0.2612
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.29	24.29	0.2685
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	26.01	24.01	0.2518
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	25.23	23.23	0.2104
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.47	23.47	0.2223
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	25.18	23.18	0.2080
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.9	21.9	0.1549
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.92	21.92	0.1556
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	23.77	21.77	0.1503
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.9	19.9	0.0977
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.94	19.94	0.0986
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	21.92	19.92	0.0982
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.48	22.48	0.1770

77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	24.78	22.78	0.1897
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	24.55	22.55	0.1799
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	26.33	24.33	0.2710
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	26.3	24.3	0.2692
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	26.22	24.22	0.2642
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	26.15	24.15	0.2600
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.2	24.2	0.2630
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.96	23.96	0.2489
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	25.24	23.24	0.2109
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.37	23.37	0.2173
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	25.06	23.06	0.2023
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.9	21.9	0.1549
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	23.85	21.85	0.1531
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	23.74	21.74	0.1493
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.92	19.92	0.0982
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	22.03	20.03	0.1007
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	21.92	19.92	0.0982
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.45	22.45	0.1758
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.75	22.75	0.1884
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	24.56	22.56	0.1803
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	26.11	24.11	0.2576
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	26.21	24.21	0.2636
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	26	24	0.2512
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	26.12	24.12	0.2582
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.17	24.17	0.2612
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	26.02	24.02	0.2523
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	25.24	23.24	0.2109
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.38	23.38	0.2178
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	25.16	23.16	0.2070
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.72	21.72	0.1486
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	23.93	21.93	0.1560
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	23.73	21.73	0.1489
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.73	19.73	0.0940
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	21.87	19.87	0.0971

77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	21.64	19.64	0.0920
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.6	22.6	0.1820
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	24.78	22.78	0.1897
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	24.5	22.5	0.1778
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	26.15	24.15	0.2600
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.16	24.16	0.2606
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.98	23.98	0.2500
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	26.13	24.13	0.2588
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.19	24.19	0.2624
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.92	23.92	0.2466
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	25.25	23.25	0.2113
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.35	23.35	0.2163
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	25.09	23.09	0.2037
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.78	21.78	0.1507
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.95	21.95	0.1567
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	23.68	21.68	0.1472
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.72	19.72	0.0938
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.87	19.87	0.0971
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	21.69	19.69	0.0931
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.62	22.62	0.1828
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	24.83	22.83	0.1919
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	24.54	22.54	0.1795
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	26.09	24.09	0.2564
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	26.1	24.1	0.2570
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.99	23.99	0.2506
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	26.05	24.05	0.2541
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.08	24.08	0.2559
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	26.02	24.02	0.2523
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	25.2	23.2	0.2089
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	25.3	23.3	0.2138
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	25.19	23.19	0.2084
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.73	21.73	0.1489
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	23.93	21.93	0.1560
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	23.71	21.71	0.1483

77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.7	19.7	0.0933
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	21.86	19.86	0.0968
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	21.67	19.67	0.0927
77	30	80	634000	3510	CP-OFDM QPSK	109@54	24.54	22.54	0.1795
77	30	80	634000	3510	CP-OFDM QPSK	1@1	24.76	22.76	0.1888
77	30	80	634000	3510	CP-OFDM QPSK	1@215	24.56	22.56	0.1803
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.12	24.12	0.2582
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.58	24.58	0.2871
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.97	23.97	0.2495
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.19	24.19	0.2624
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.17	24.17	0.2612
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	26.05	24.05	0.2541
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.22	23.22	0.2099
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.34	23.34	0.2158
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	25.15	23.15	0.2065
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.77	21.77	0.1503
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.84	21.84	0.1528
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.61	21.61	0.1449
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.65	19.65	0.0923
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.77	19.77	0.0948
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21.72	19.72	0.0938
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.74	22.74	0.1879
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.82	22.82	0.1914
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.4	22.4	0.1738

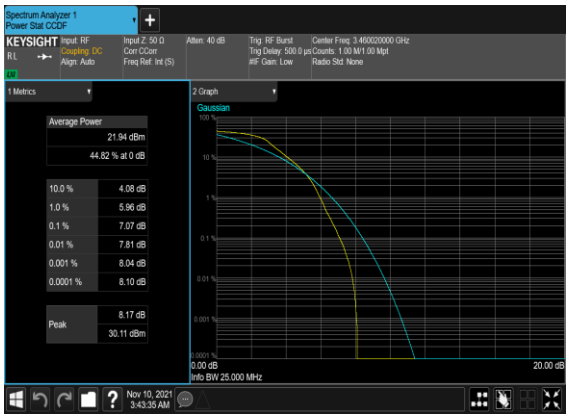
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00477	**PASS**	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00467	**PASS**	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00446	**PASS**	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00864	**PASS**	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00364	**PASS**	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00866	**PASS**	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00537	**PASS**	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00745	**PASS**	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00535	**PASS**	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00659	**PASS**	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00526	**PASS**	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00362	**PASS**	50℃

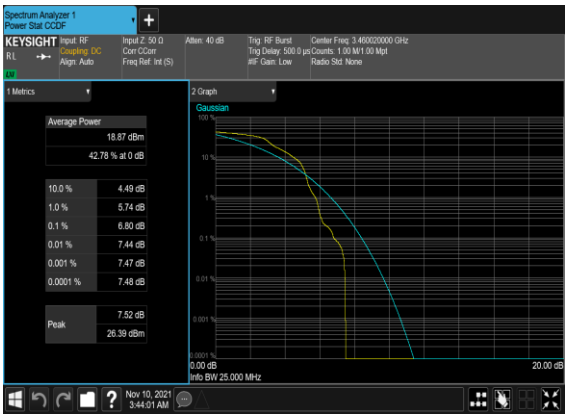
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	7.07	13	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	6.8	13	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	7.92	13	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	8.99	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	7.02	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	6.82	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.56	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	8.93	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	6.98	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.18	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	7.55	13	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	9.26	13	**PASS**

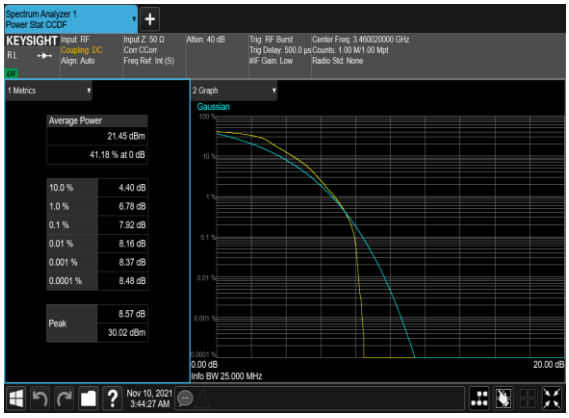
B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



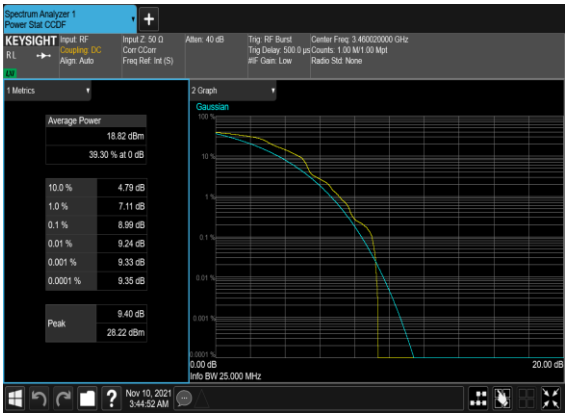
B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



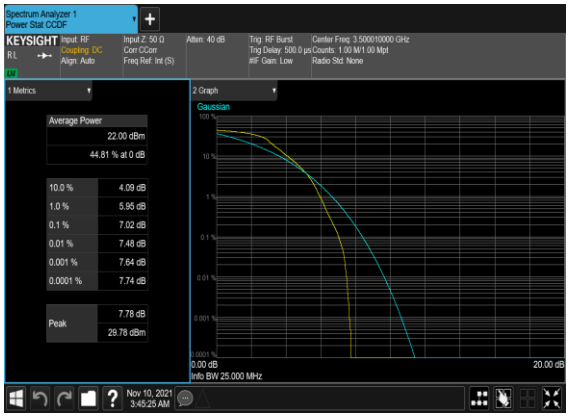
B5_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

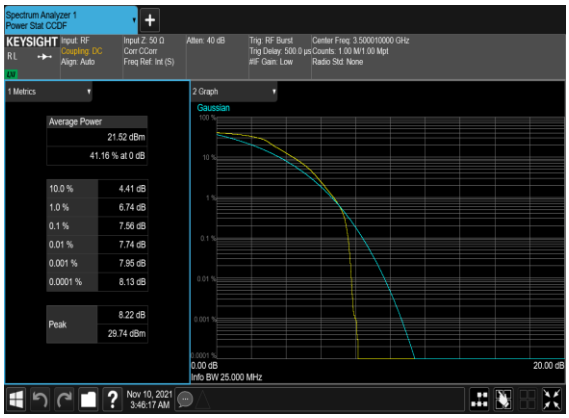


B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

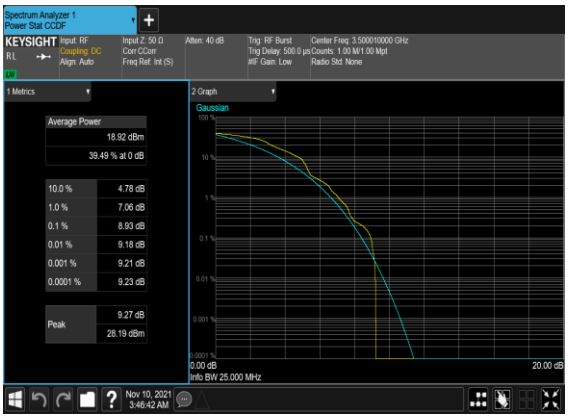


B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

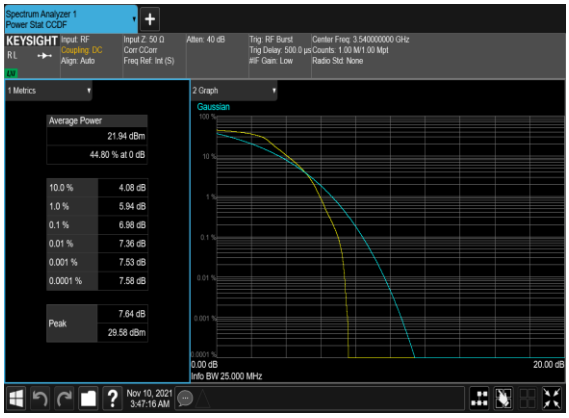
B5_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



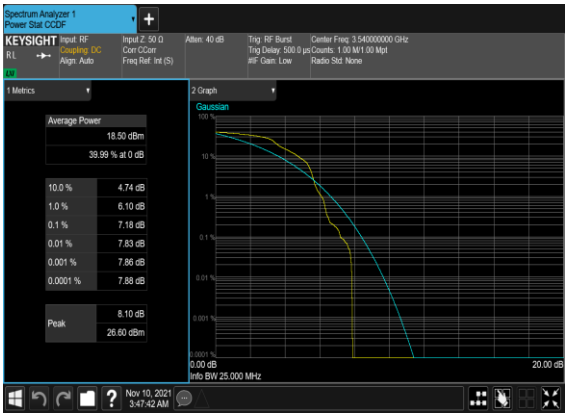
B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

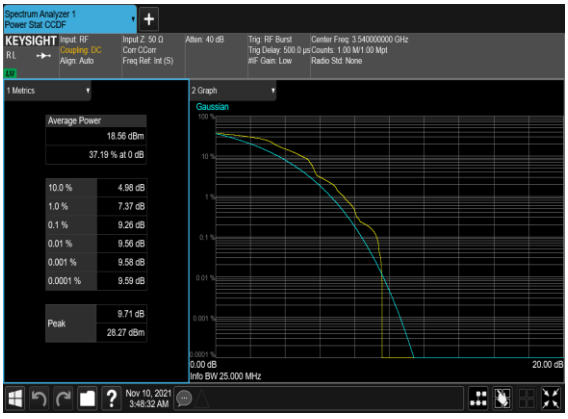


B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B5_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

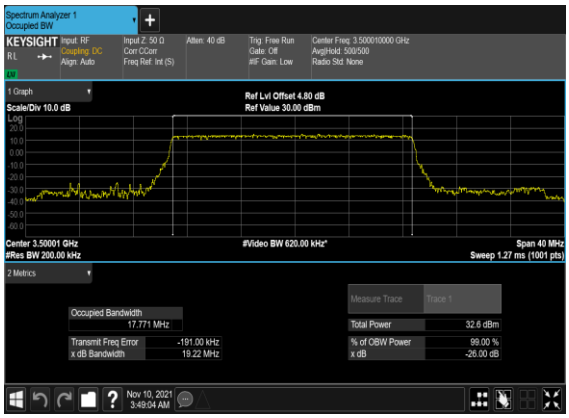


Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.771	19.22
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.819	19.3
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.206	19.86
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.256	19.54
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.147	19.5
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.17	19.35
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.786	28.28
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.744	28.19
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.855	29.57
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.873	29.14
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.808	29.19
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.814	29.43
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.731	37.57
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.758	37.37
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.844	39.62
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.772	39.43
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.835	39.72
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.944	39.84
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.91	59.81
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	58.025	60.05
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.829	60.02
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.776	60.02
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.778	59.73
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.803	59.79

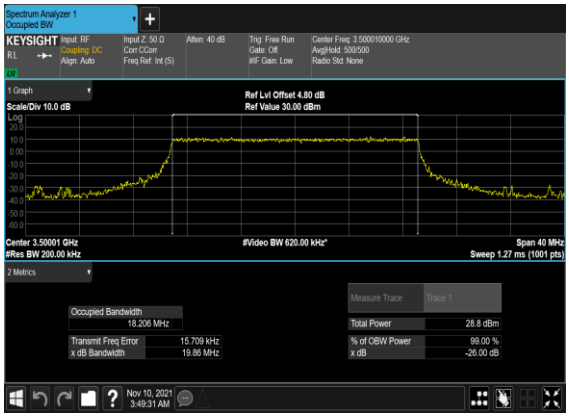
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.111	79.65
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	77.223	79.77
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.457	80.14
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.481	80.16
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.605	80.07
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.595	80.0
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.648	99.63
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.367	99.54
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.399	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.499	100.7
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.526	100.7
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.35	100.9

B5_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

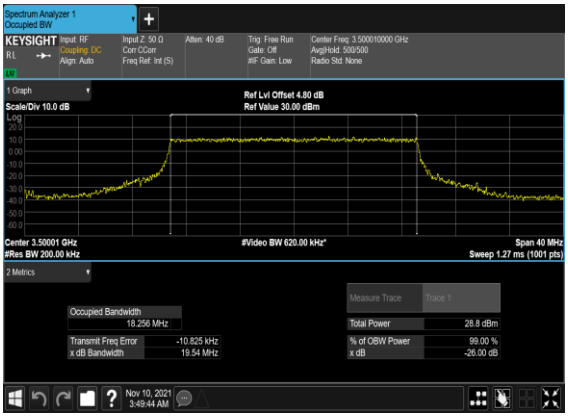


B5_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B5_N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



B5_N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



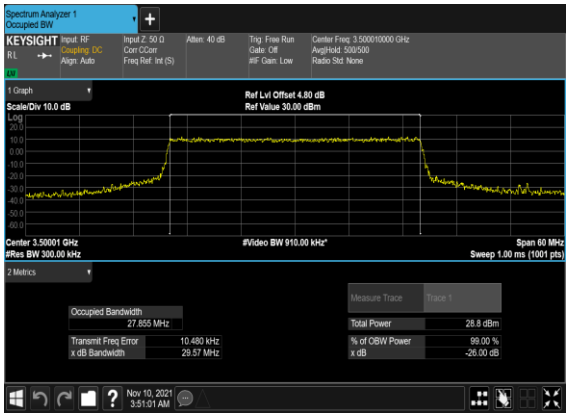
B5_N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B5_N77(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

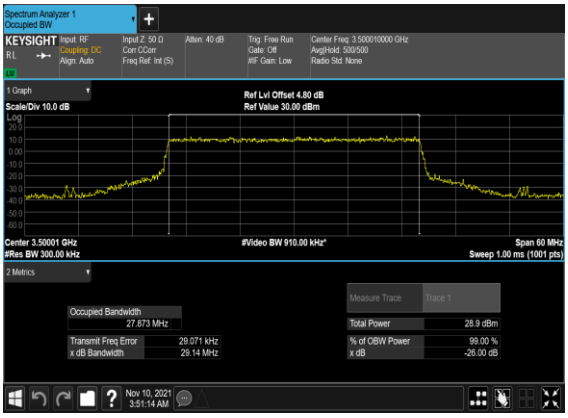
B5_N77(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

B5_N77(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B5_N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



B5_N77(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

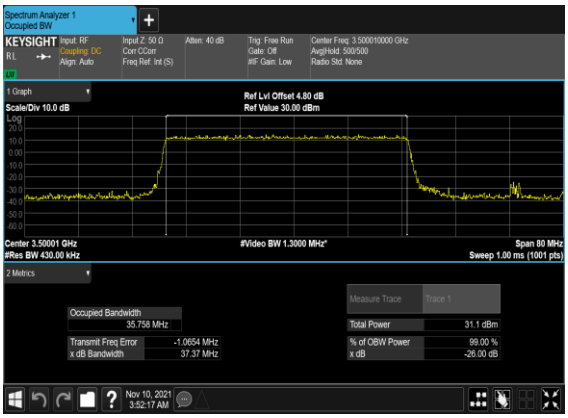


B5_N77(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

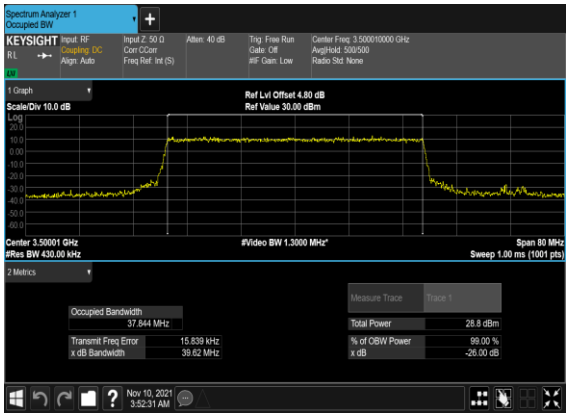
B5_N77(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

B5_N77(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

B5_N77(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



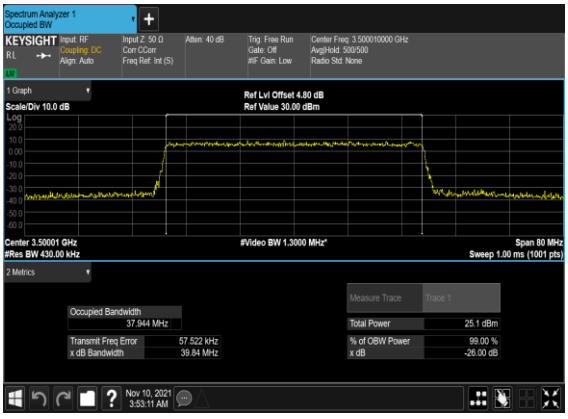
B5_N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



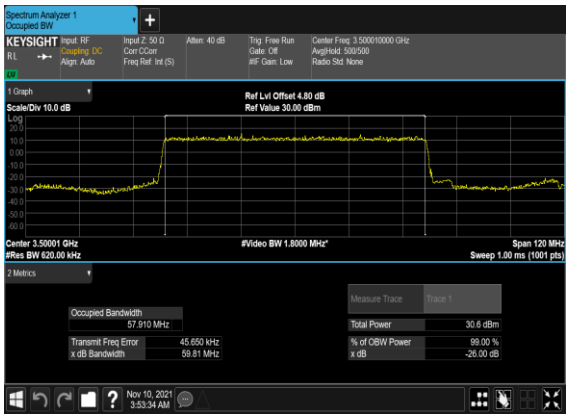
B5_N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

B5_N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

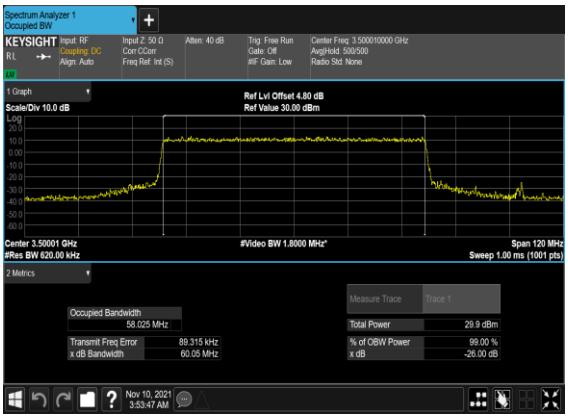
B5_N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



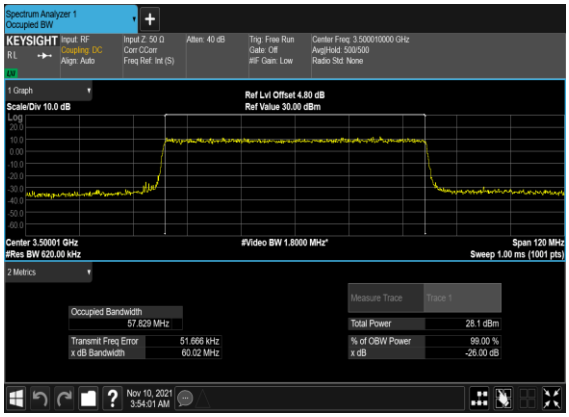
B5_N77(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



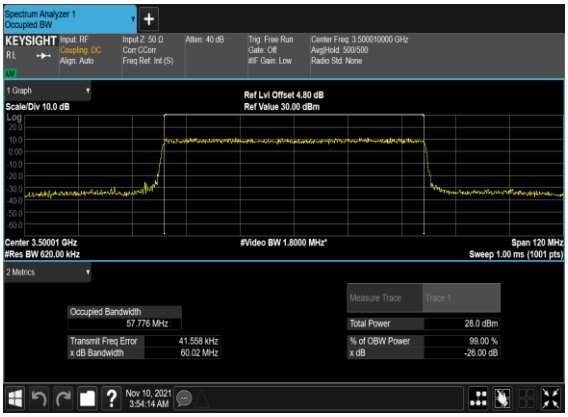
B5_N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



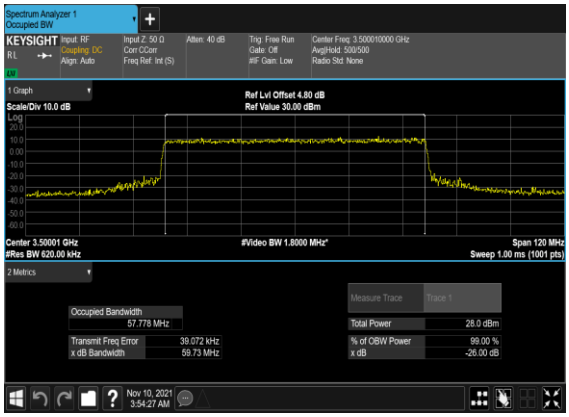
B5_N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



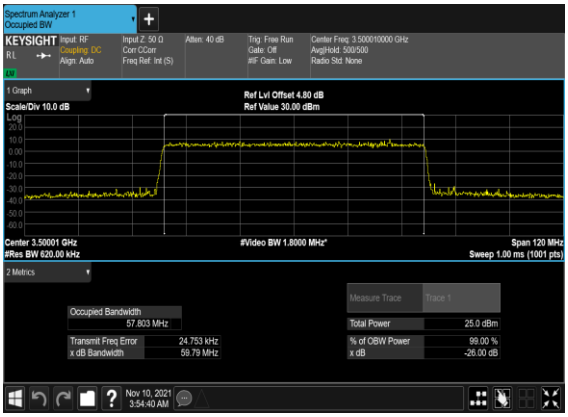
B5_N77(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



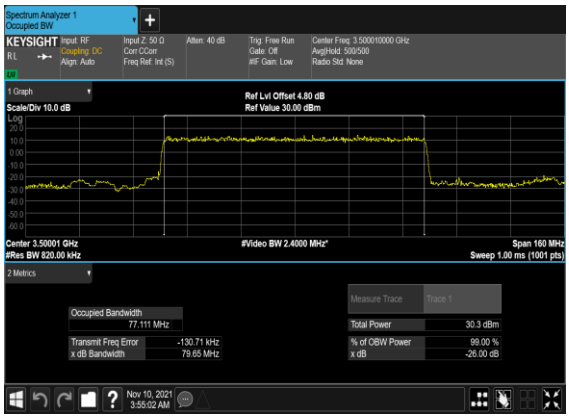
B5_N77(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B5_N77(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

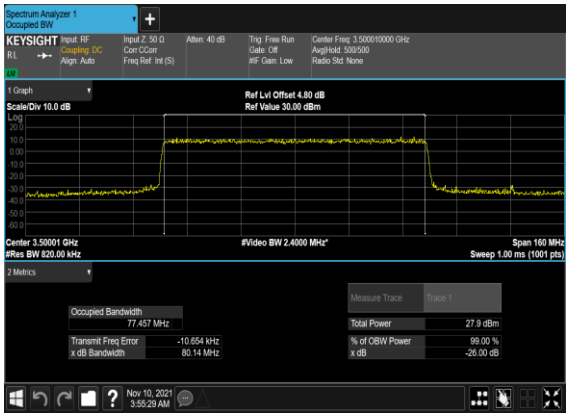


B5_N77(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

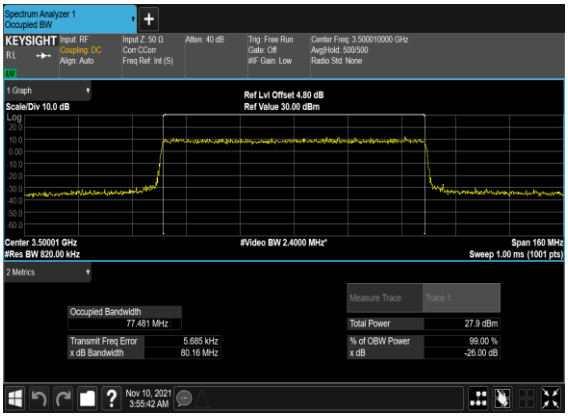


B5_N77(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

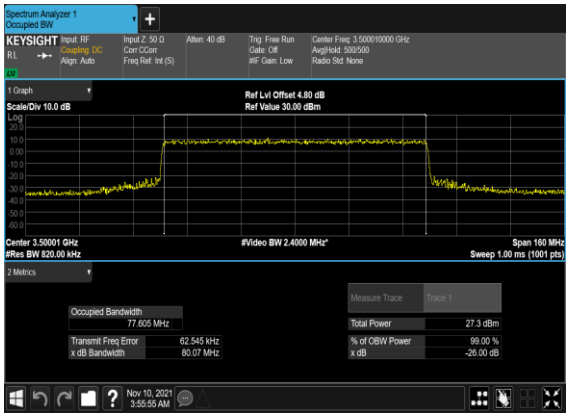
B5_N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



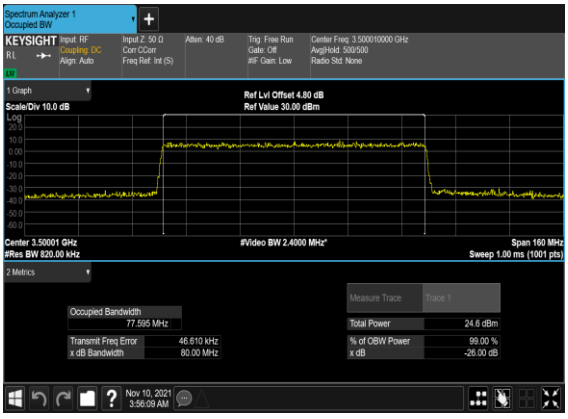
B5_N77(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



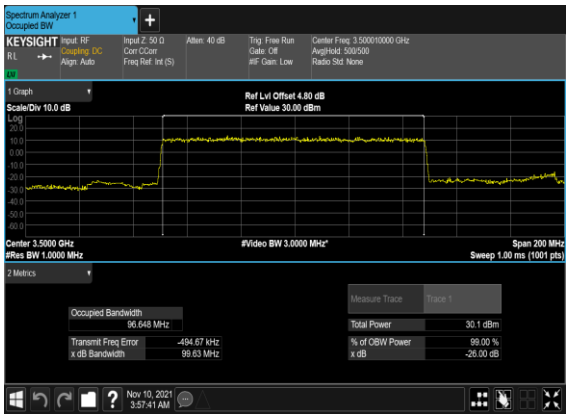
B5_N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B5_N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

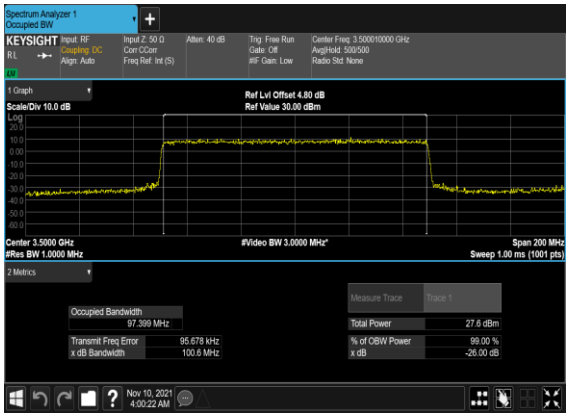


B5_N77(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

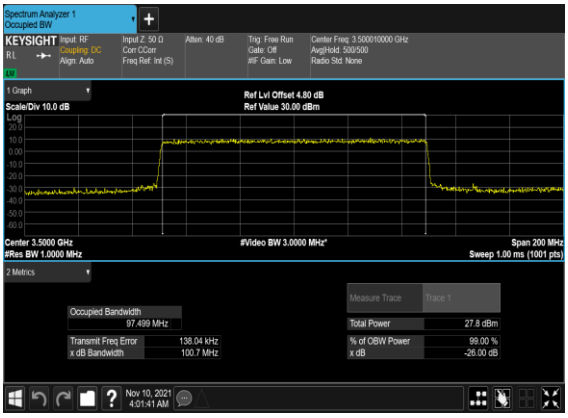


B5_N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B5_N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



B5_N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B5_N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

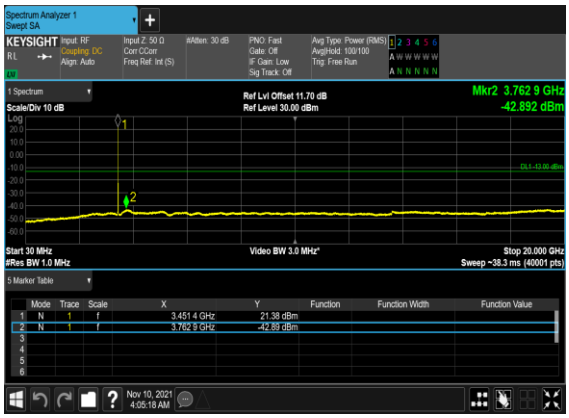
B5_N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**---**

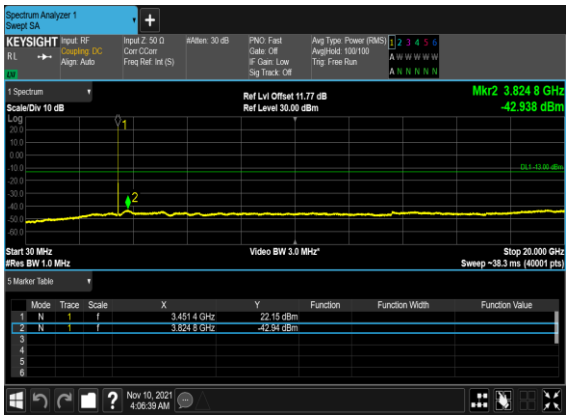
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



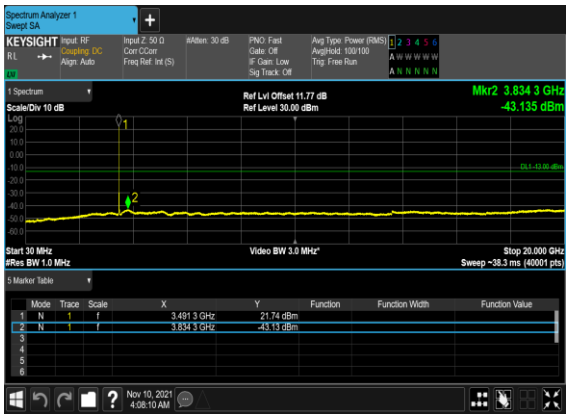
B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



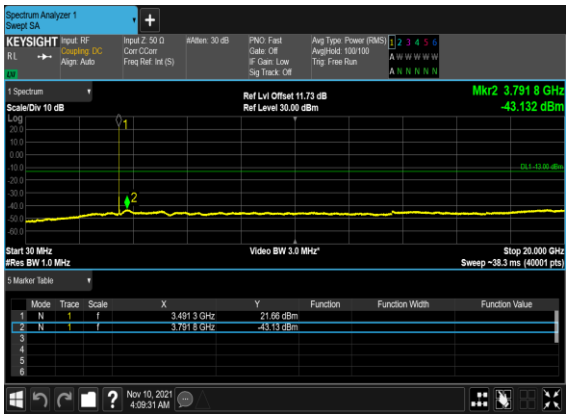
B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



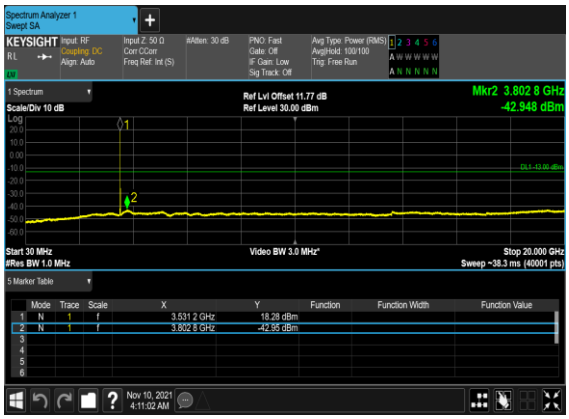
B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



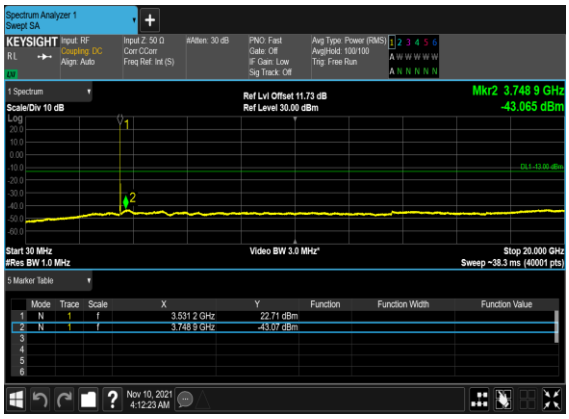
B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

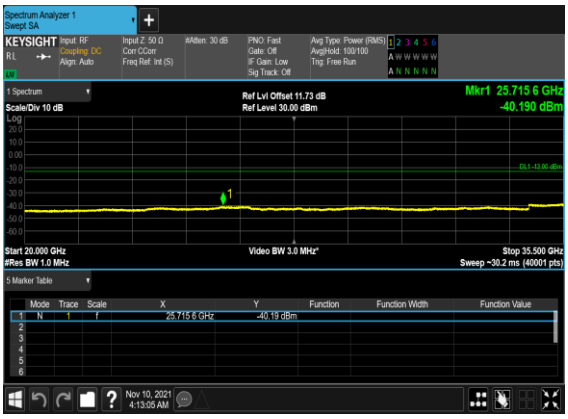


B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

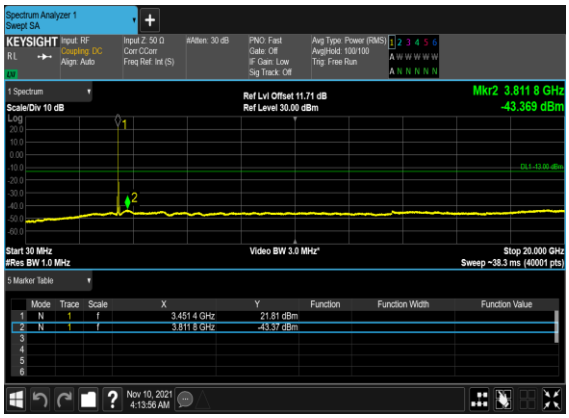
B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

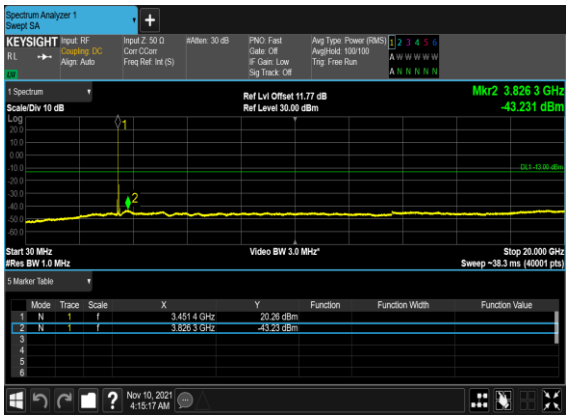


B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

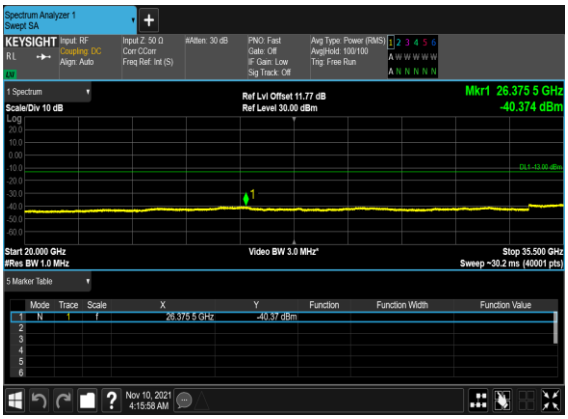


B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

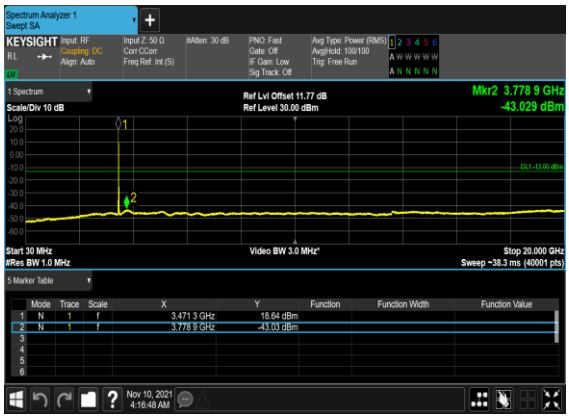
B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

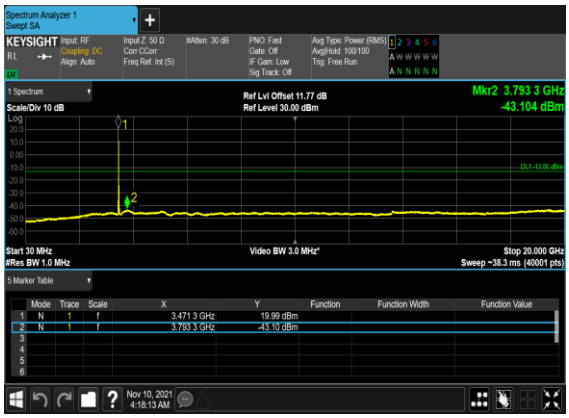


B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



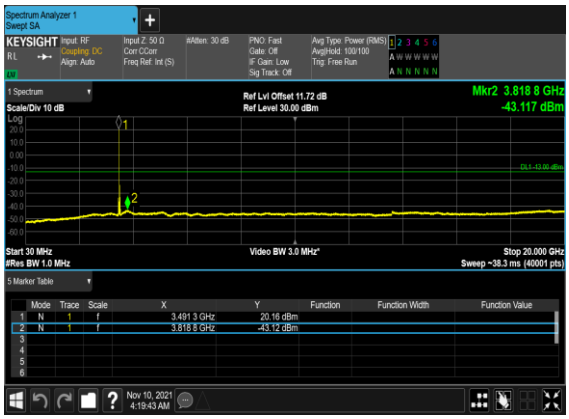
B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

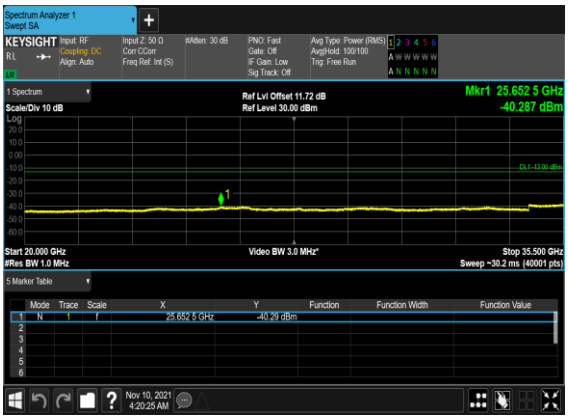


B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

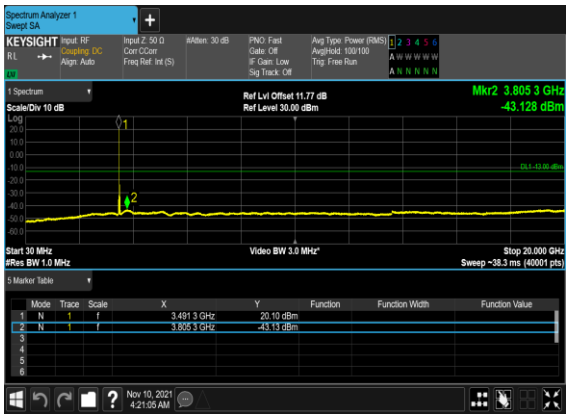
B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

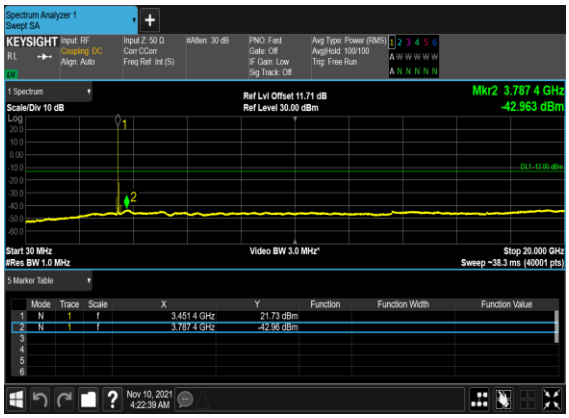


B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

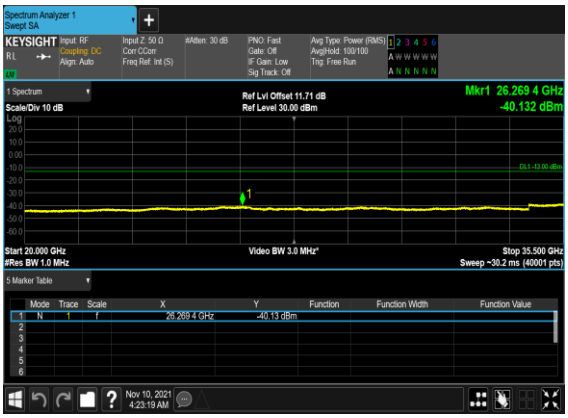


B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

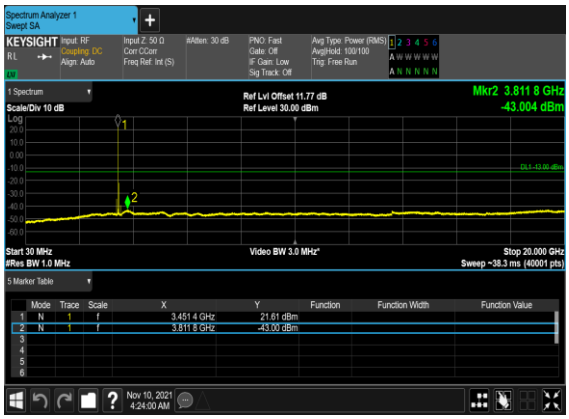
B5_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



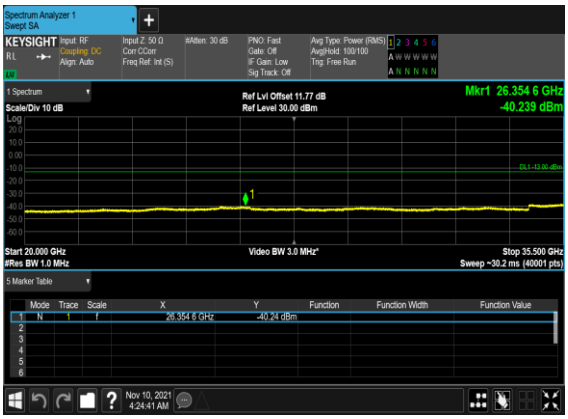
B5_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B5_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



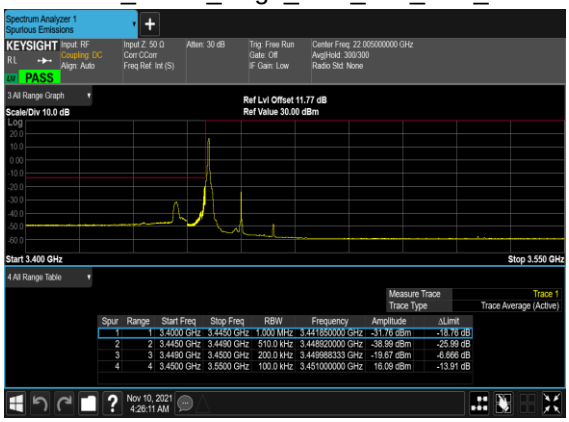
B5_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



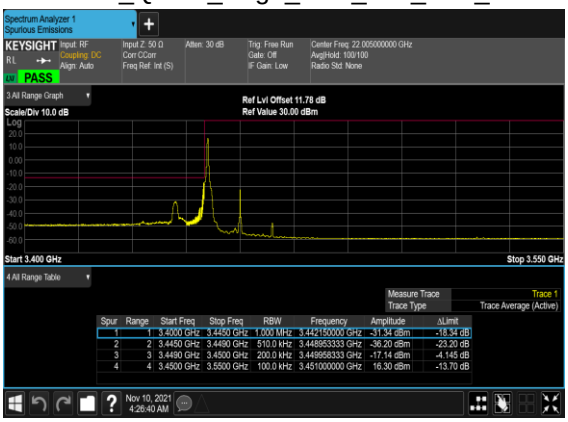
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	162@0	see graph	**PASS**
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@161	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	162@0	see graph	**PASS**
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

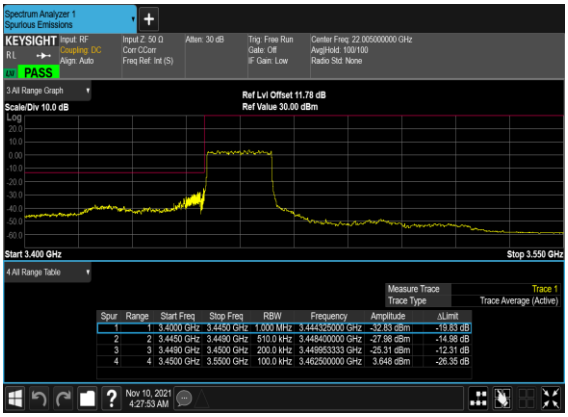


B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

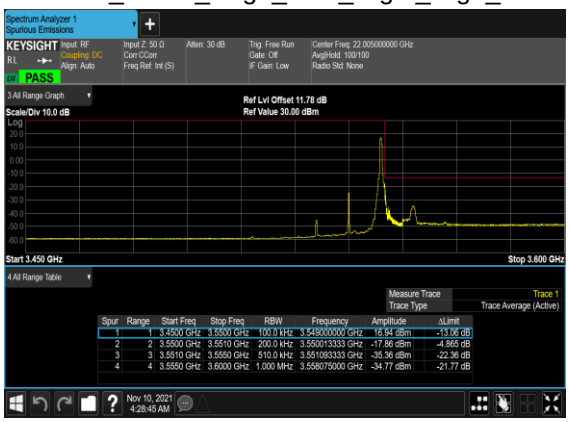


B5_N77(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

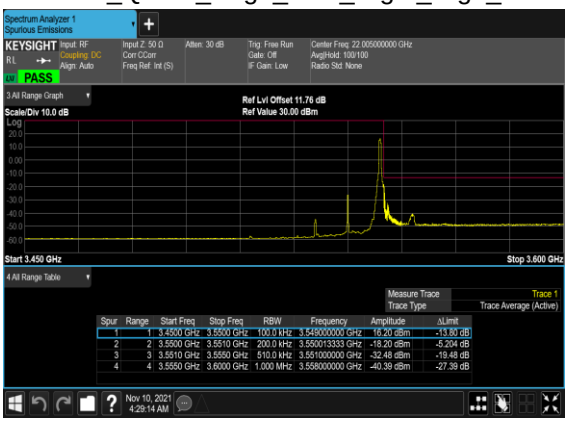
B5_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



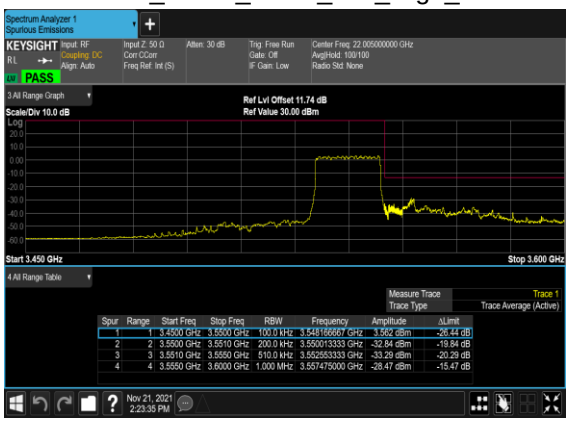
B5_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



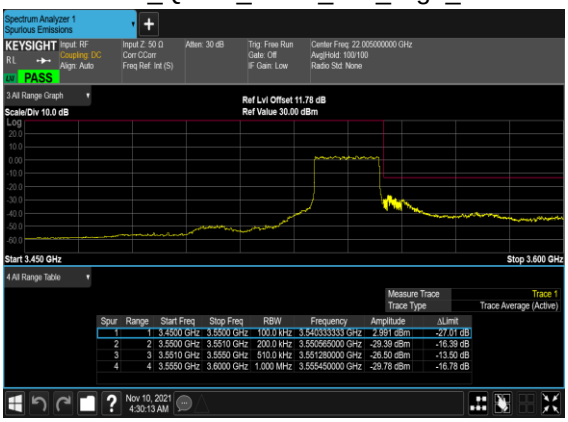
B5_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B5_N77(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



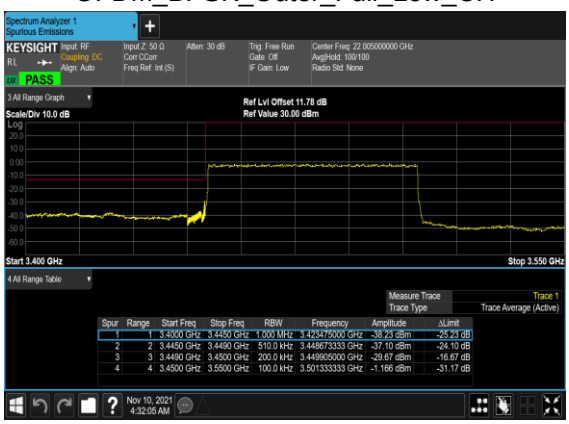
B5_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



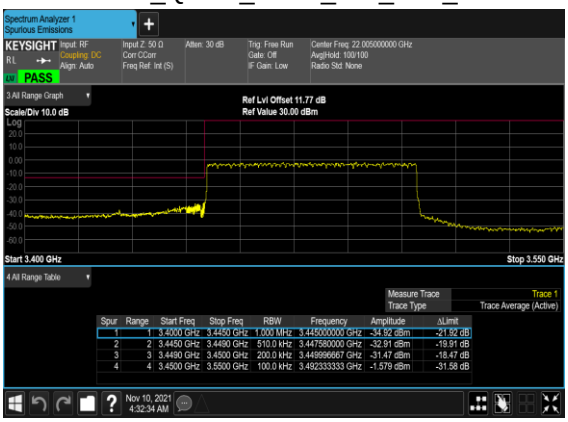
B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

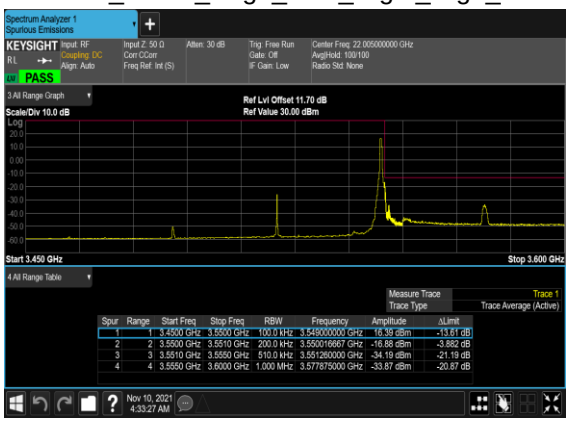
B5_N77(60M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



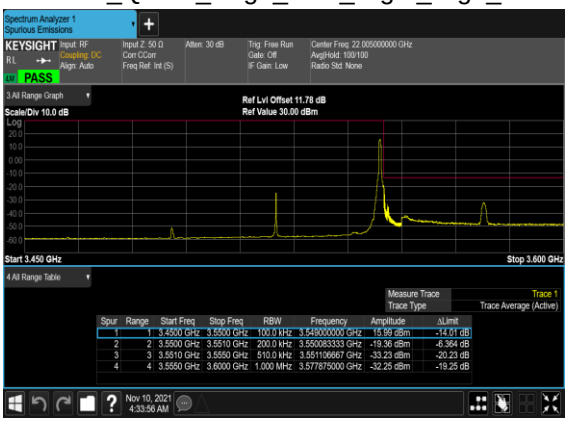
B5_N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



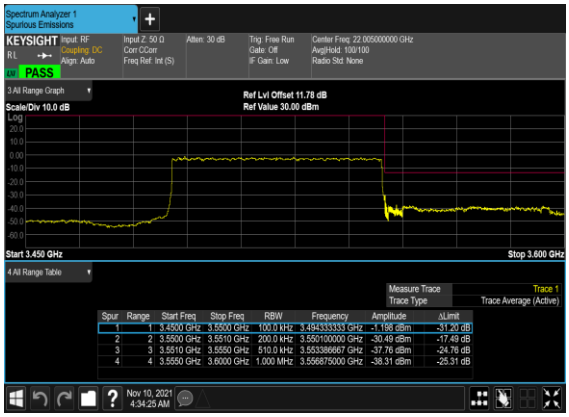
B5_N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



B5_N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

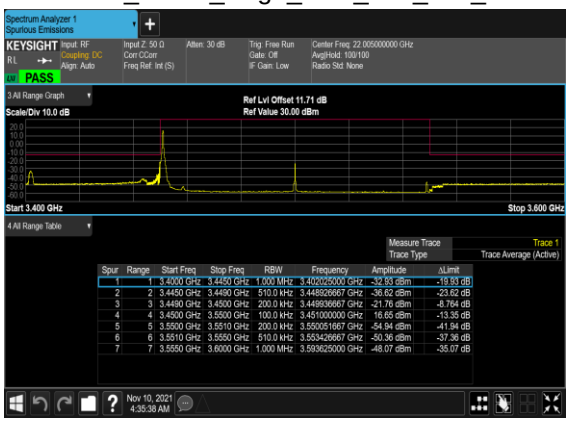


B5_N77(60M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



B5_N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

B5_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B5_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH