FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Redmi
MODEL NAME	:	2201116SG
FCC ID	:	2AFZZ16SG
STANDARD	:	47 CFR Part 2, 27(O)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Dec. 02, 2021 ~ Dec. 30, 2021

We, Sporton International (Kunshan) 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.

This report contains data that were produced under subcontract by Sporton International (ShenZhen) Inc.

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager

ACCREDITED Cert #5145.02

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1N1013F	Rev. 01	Initial issue of report	Jan. 04, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10$\log_{10}$(P[Watts])	PASS	Under limit 35.25 dB at 14808.000 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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Redmi
Model Name	2201116SG
FCC ID	2AFZZ16SG
IMEI Code	Conducted : 864451050055441/864451050055158 Radiation : 864451050060201/864451050060219
HW Version	P1.1
SW Version	MIUI 13
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	n77, n78: 30kHz
Bandwidth	n77/n78: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 100MHz
Antenna Gain	**<Ant.3>** 5G NR n77 : -3.5 dBi 5G NR n78 : -3.5 dBi **<Ant.5>** 5G NR n77 : -1.4 dBi 5G NR n78 : -2.1 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK/QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The EIRP is calculated from output power and antenna gain, only the maximum EIRP of n77/n78 for Antenna 5 are shown in the report.

2. 5G NR Bands support SA and NSA mode.
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. The device supports HPUE mode for 5G NR n77/n78.

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)
20	3710.01 ~ 3969.99	0.2355	18M2G7D	0.1941	18M2W7D
30	3715.02 ~ 3964.98	0.2427	27M9G7D	0.1972	27M8W7D
40	3720.00 ~ 3960.00	0.2559	37M7G7D	0.2133	37M8W7D
50	3725.01 ~ 3954.99	0.2323	47M5G7D	0.1897	47M5W7D
60	3730.02 ~ 3949.98	0.2291	58M0G7D	0.1892	57M9W7D
80	3740.01 ~ 3939.99	0.2223	77M4G7D	0.1807	77M5W7D
100	3750.00 ~ 3930.00	0.2234	97M4G7D	0.1807	97M5W7D

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

5G NR n78 NSA (EN DC_41A-n78A)		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)
100	3750.00	0.2432	97M9G7D	0.1932	97M3W7D

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

1.7 Testing Location

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-KS 03CH05-KS	CN1257	314309

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 data subcontracted: conducted test case of band n77 in section 3.4~3.9 of this report

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24al

1.9 Applicable Standards

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

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

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

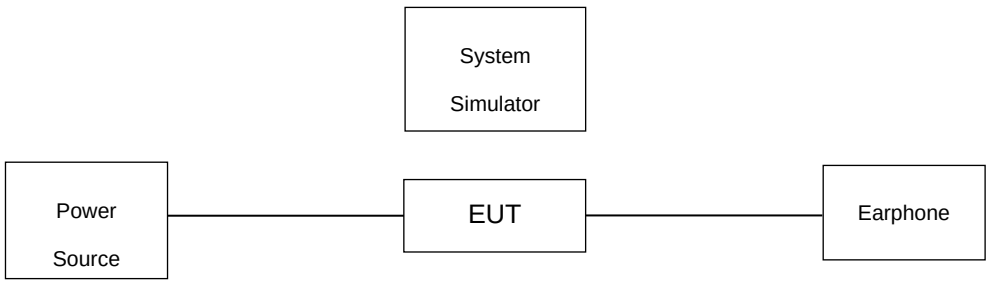
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		20	30	40	50	60	80	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	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
	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n77	v							v	v				v	v		v	
	n78							v	v	v	v	v	v		v		v	
26dB and 99% Bandwidth	n77	v	v	v	v	v	v	v	v	v	v	v	v		v		v	
	n78							v		v	v				v		v	
Conducted Band Edge	n77	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
Conducted Spurious Emission	n77	v			v			v	v	v				v		v	v	v
	n78	v	v	v	v	v	v	v		v				v		v	v	v
Frequency Stability	n77	v								v					v		v	
	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
	n78	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	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.	Earphone	MI	N/A	N/A	Unshielded,1.2m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 5.0 dB.

Example :

Offset(dB) = RF cable loss(dB).

=5.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n77 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99

5G NR n78 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel		650000	
	Frequency		3750	
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99

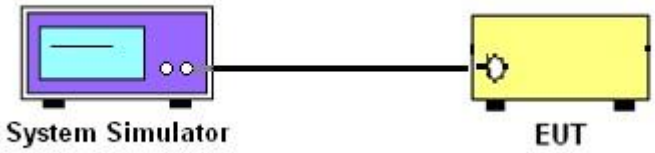
3 Conducted Test Items

3.1 Measuring Instruments

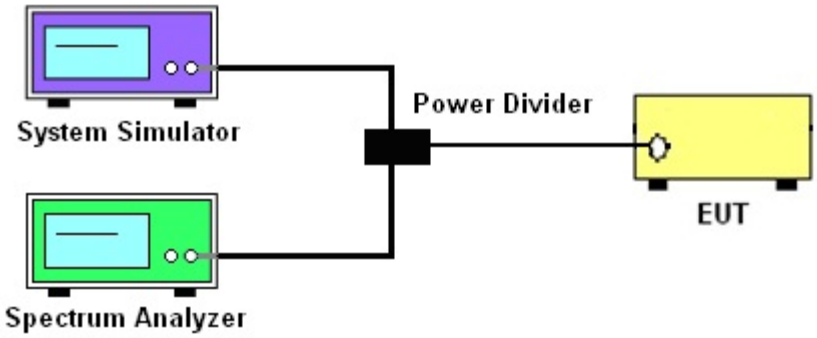
See list of measuring instruments of this test report.

3.2 Test Setup

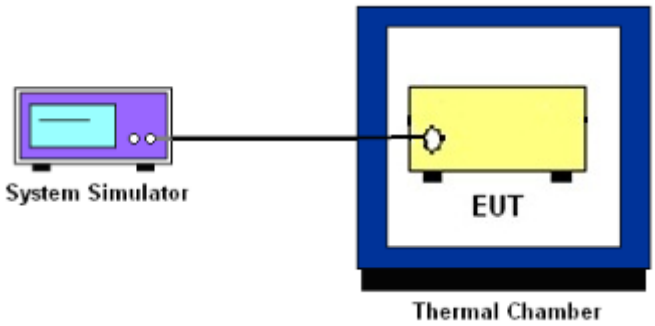
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

For Band n77：

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.

For Band n78：

1. The testing follows ANSI C63.26 Section 5.2.6 (PAPR).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set EUT in maximum power output.
4. Set the RBW = 1MHz, VBW = 3MHz, Detector = Peak, Trace mode = max hold, Set span ≥ 2 × OBW in spectrum analyzer.
5. Set the RBW = 1MHz, VBW = 3MHz, Detector = power averaging, Trace mode = max hold, Set span ≥ 2 × OBW in spectrum analyzer.
6. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission.
7. PAPR (dB) = P_{Pk} (dBm) − P_{Avg} (dBm)
   where
   PAPR peak-to-average power ratio, in dB
   P_{Pk} measured peak power level, in dBm
   P_{Avg} measured average power level, in dBm
8. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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

3.8.2 Test Procedures

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

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±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.

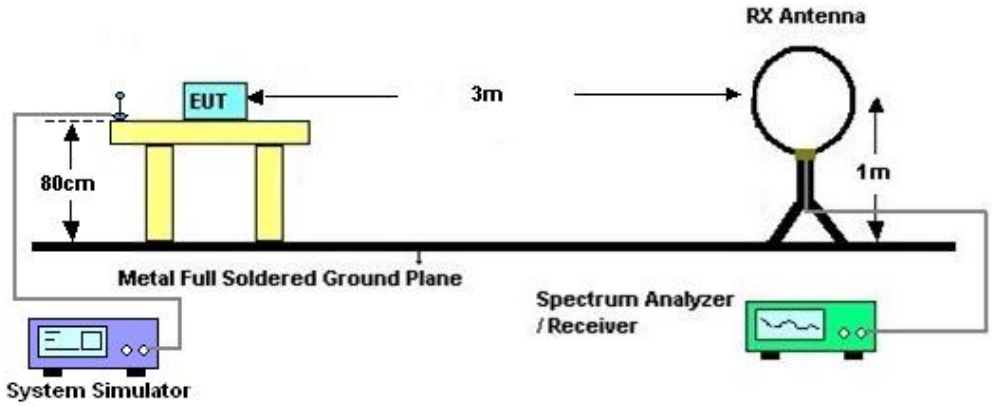
4 Radiated Test Items

4.1 Measuring Instruments

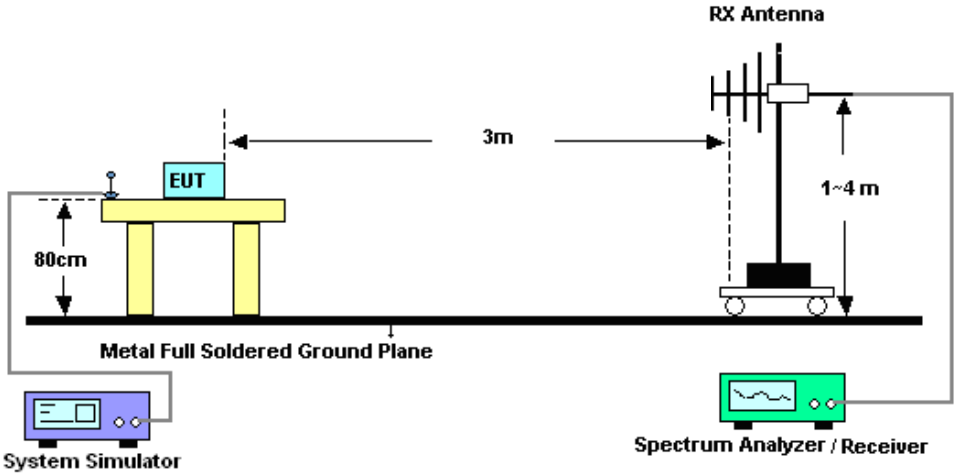
See list of measuring instruments of this test report.

4.2 Test Setup

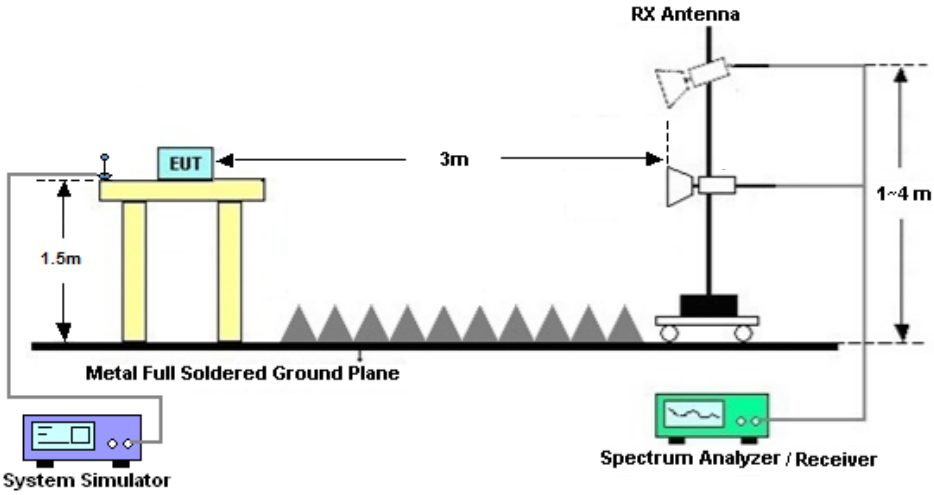
4.2.1 For radiated test below 30MHz



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

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 13, 2021	Dec. 02, 2021	Jul. 12, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Dec. 02, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Dec. 02, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Dec. 29, 2021~ Dec. 30, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 12, 2021	Dec. 29, 2021~ Dec. 30, 2021	Jul. 11, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Dec. 29, 2021~ Dec. 30, 2021	Aug. 25, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Dec. 16, 2021	Apr. 12, 2022	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Dec. 16, 2021	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 04 ,2021	Dec. 16, 2021	Jun. 03, 2022	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 24, 2021	Dec. 16, 2021	Apr. 23, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Dec. 16, 2021	Jan. 05, 2022	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Apr. 12, 2021	Dec. 16, 2021	Apr. 11, 2022	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Dec. 16, 2021	Jan. 06, 2022	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2012228	1Ghz-18Ghz	Oct. 16, 2021	Dec. 16, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 16, 2021	Dec. 16, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 16, 2021	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 16, 2021	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 16, 2021	NCR	Radiation (03CH05-KS)

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))	**2.5dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.1dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.1dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo&Smile Wang	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

Software Version: 21.02.111001

FR1 N77(ANT5)

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	647334	3710.01	DFT-s-OFDM PI/2 BPSK	25@12	25.08	23.68	0.2333
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.12	23.72	0.2355
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@49	25.06	23.66	0.2323
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	25.09	23.69	0.2339
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.07	23.67	0.2328
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	24.99	23.59	0.2286
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	24.16	22.76	0.1888
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.19	22.79	0.1901
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.12	22.72	0.1871
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	25@12	22.66	21.26	0.1337
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	22.44	21.04	0.1271
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@49	22.55	21.15	0.1303
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	25@12	20.6	19.2	0.0832
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	20.56	19.16	0.0824
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@49	20.24	18.84	0.0766
77	30	20	647334	3710.01	CP-OFDM QPSK	25@12	23.58	22.18	0.1652
77	30	20	647334	3710.01	CP-OFDM QPSK	1@1	23.52	22.12	0.1629
77	30	20	647334	3710.01	CP-OFDM QPSK	1@49	23.58	22.18	0.1652
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	25@12	25.05	23.65	0.2317
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.09	23.69	0.2339
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@49	25.12	23.72	0.2355
77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	25.07	23.67	0.2328
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.06	23.66	0.2323
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	25.02	23.62	0.2301
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.16	22.76	0.1888
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.2	22.8	0.1905
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	24.14	22.74	0.1879
77	30	20	656000	3840	DFT-s-OFDM	25@12	22.65	21.25	0.1334

					64 QAM				
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.71	21.31	0.1352
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@49	22.57	21.17	0.1309
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	25@12	20.47	19.07	0.0807
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.22	18.82	0.0762
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@49	20.62	19.22	0.0836
77	30	20	656000	3840	CP-OFDM QPSK	25@12	23.62	22.22	0.1667
77	30	20	656000	3840	CP-OFDM QPSK	1@1	23.5	22.1	0.1622
77	30	20	656000	3840	CP-OFDM QPSK	1@49	23.61	22.21	0.1663
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	25@12	25.08	23.68	0.2333
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	25.11	23.71	0.2350
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@49	25.11	23.71	0.2350
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	25.1	23.7	0.2344
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.06	23.66	0.2323
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	25.06	23.66	0.2323
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	24.22	22.82	0.1914
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.16	22.76	0.1888
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	24.28	22.88	0.1941
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	25@12	22.67	21.27	0.1340
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@1	22.46	21.06	0.1276
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@49	22.59	21.19	0.1315
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	25@12	20.48	19.08	0.0809
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@1	20.51	19.11	0.0815
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@49	20.29	18.89	0.0774
77	30	20	664666	3969.99	CP-OFDM QPSK	25@12	23.63	22.23	0.1671
77	30	20	664666	3969.99	CP-OFDM QPSK	1@1	23.56	22.16	0.1644
77	30	20	664666	3969.99	CP-OFDM QPSK	1@49	23.71	22.31	0.1702
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	36@18	25.18	23.78	0.2388
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.25	23.85	0.2427
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@76	25.18	23.78	0.2388
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	25.18	23.78	0.2388
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.24	23.84	0.2421
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	25.1	23.7	0.2344
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	24.23	22.83	0.1919

77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.35	22.95	0.1972
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.24	22.84	0.1923
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	36@18	22.69	21.29	0.1346
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@1	22.66	21.26	0.1337
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@76	22.7	21.3	0.1349
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	36@18	20.66	19.26	0.0843
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@1	20.51	19.11	0.0815
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@76	20.48	19.08	0.0809
77	30	30	647668	3715.02	CP-OFDM QPSK	39@19	23.67	22.27	0.1687
77	30	30	647668	3715.02	CP-OFDM QPSK	1@1	23.72	22.32	0.1706
77	30	30	647668	3715.02	CP-OFDM QPSK	1@76	23.68	22.28	0.1690
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	36@18	25.01	23.61	0.2296
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.08	23.68	0.2333
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@76	25.17	23.77	0.2382
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	25.04	23.64	0.2312
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	25.23	23.83	0.2415
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	25.11	23.71	0.2350
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.11	22.71	0.1866
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.24	22.84	0.1923
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	24.34	22.94	0.1968
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	36@18	22.69	21.29	0.1346
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.46	21.06	0.1276
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@76	22.56	21.16	0.1306
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	36@18	20.52	19.12	0.0817
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.38	18.98	0.0791
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@76	20.43	19.03	0.0800
77	30	30	656000	3840	CP-OFDM QPSK	39@19	23.56	22.16	0.1644
77	30	30	656000	3840	CP-OFDM QPSK	1@1	23.62	22.22	0.1667
77	30	30	656000	3840	CP-OFDM QPSK	1@76	23.62	22.22	0.1667
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	36@18	25.01	23.61	0.2296
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	25.1	23.7	0.2344
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@76	25.02	23.62	0.2301
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	25.04	23.64	0.2312
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	25.11	23.71	0.2350

77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	25.03	23.63	0.2307
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	24.08	22.68	0.1854
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	24.3	22.9	0.1950
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	24.12	22.72	0.1871
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	36@18	22.63	21.23	0.1327
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@1	22.53	21.13	0.1297
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@76	22.43	21.03	0.1268
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	36@18	20.68	19.28	0.0847
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@1	20.45	19.05	0.0804
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@76	19.88	18.48	0.0705
77	30	30	664332	3964.98	CP-OFDM QPSK	39@19	23.54	22.14	0.1637
77	30	30	664332	3964.98	CP-OFDM QPSK	1@1	23.65	22.25	0.1679
77	30	30	664332	3964.98	CP-OFDM QPSK	1@76	23.59	22.19	0.1656
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	50@25	25.22	23.82	0.2410
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.42	24.02	0.2523
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@104	25.35	23.95	0.2483
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.25	23.85	0.2427
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.48	24.08	0.2559
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.26	23.86	0.2432
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	24.23	22.83	0.1919
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.69	23.29	0.2133
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.36	22.96	0.1977
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	50@25	22.73	21.33	0.1358
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	23.01	21.61	0.1449
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@104	22.63	21.23	0.1327
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	50@25	20.72	19.32	0.0855
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	20.7	19.3	0.0851
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@104	20.6	19.2	0.0832
77	30	40	648000	3720	CP-OFDM QPSK	53@26	23.71	22.31	0.1702
77	30	40	648000	3720	CP-OFDM QPSK	1@1	23.97	22.57	0.1807
77	30	40	648000	3720	CP-OFDM QPSK	1@104	23.87	22.47	0.1766
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	50@25	25.08	23.68	0.2333
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.21	23.81	0.2404
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@104	25.14	23.74	0.2366

77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	25.14	23.74	0.2366
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.15	23.75	0.2371
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	25.05	23.65	0.2317
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.22	22.82	0.1914
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.37	22.97	0.1982
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.16	22.76	0.1888
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	50@25	22.77	21.37	0.1371
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.26	20.86	0.1219
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@104	22.53	21.13	0.1297
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	50@25	20.57	19.17	0.0826
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.41	19.01	0.0796
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@104	20.31	18.91	0.0778
77	30	40	656000	3840	CP-OFDM QPSK	53@26	23.57	22.17	0.1648
77	30	40	656000	3840	CP-OFDM QPSK	1@1	23.72	22.32	0.1706
77	30	40	656000	3840	CP-OFDM QPSK	1@104	23.6	22.2	0.1660
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	50@25	25.11	23.71	0.2350
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	25.26	23.86	0.2432
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@104	25.25	23.85	0.2427
77	30	40	664000	3960	DFT-s-OFDM QPSK	50@25	25.14	23.74	0.2366
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	25.24	23.84	0.2421
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@104	25.19	23.79	0.2393
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	50@25	24.2	22.8	0.1905
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.51	23.11	0.2046
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@104	24.26	22.86	0.1932
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	50@25	22.65	21.25	0.1334
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	1@1	22.61	21.21	0.1321
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	1@104	22.57	21.17	0.1309
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	50@25	20.68	19.28	0.0847
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	1@1	20.52	19.12	0.0817
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	1@104	20.47	19.07	0.0807
77	30	40	664000	3960	CP-OFDM QPSK	53@26	23.67	22.27	0.1687
77	30	40	664000	3960	CP-OFDM QPSK	1@1	23.81	22.41	0.1742
77	30	40	664000	3960	CP-OFDM QPSK	1@104	23.76	22.36	0.1722
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	64@32	24.89	23.49	0.2234

77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.01	23.61	0.2296
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@131	24.87	23.47	0.2223
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	24.94	23.54	0.2259
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	24.92	23.52	0.2249
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	24.8	23.4	0.2188
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	23.94	22.54	0.1795
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.06	22.66	0.1845
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	23.99	22.59	0.1816
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	64@32	22.41	21.01	0.1262
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	22.5	21.1	0.1288
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@131	22.26	20.86	0.1219
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	64@32	20.22	18.82	0.0762
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	20.35	18.95	0.0785
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@131	20.35	18.95	0.0785
77	30	50	648334	3725.01	CP-OFDM QPSK	67@33	23.44	22.04	0.1600
77	30	50	648334	3725.01	CP-OFDM QPSK	1@1	23.46	22.06	0.1607
77	30	50	648334	3725.01	CP-OFDM QPSK	1@131	23.48	22.08	0.1614
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	64@32	25.06	23.66	0.2323
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.93	23.53	0.2254
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@131	24.99	23.59	0.2286
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	24.95	23.55	0.2265
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	24.88	23.48	0.2228
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	24.9	23.5	0.2239
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	23.94	22.54	0.1795
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.14	22.74	0.1879
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	24.18	22.78	0.1897
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	64@32	22.49	21.09	0.1285
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.38	20.98	0.1253
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@131	22.29	20.89	0.1227
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	64@32	20.46	19.06	0.0805
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.19	18.79	0.0757
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@131	20.46	19.06	0.0805
77	30	50	656000	3840	CP-OFDM QPSK	67@33	23.44	22.04	0.1600
77	30	50	656000	3840	CP-OFDM QPSK	1@1	23.32	21.92	0.1556

77	30	50	656000	3840	CP-OFDM QPSK	1@131	23.51	22.11	0.1626
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	64@32	24.99	23.59	0.2286
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	24.99	23.59	0.2286
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@131	24.94	23.54	0.2259
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	24.97	23.57	0.2275
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	24.92	23.52	0.2249
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	24.87	23.47	0.2223
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	23.98	22.58	0.1811
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.09	22.69	0.1858
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	24.04	22.64	0.1837
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	64@32	22.45	21.05	0.1274
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	22.28	20.88	0.1225
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@131	22.27	20.87	0.1222
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	64@32	20.4	19	0.0794
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	20.2	18.8	0.0759
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@131	20.21	18.81	0.0760
77	30	50	663666	3954.99	CP-OFDM QPSK	67@33	23.48	22.08	0.1614
77	30	50	663666	3954.99	CP-OFDM QPSK	1@1	23.44	22.04	0.1600
77	30	50	663666	3954.99	CP-OFDM QPSK	1@131	23.47	22.07	0.1611
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	81@40	24.84	23.44	0.2208
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	24.86	23.46	0.2218
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@160	24.87	23.47	0.2223
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	24.89	23.49	0.2234
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	24.86	23.46	0.2218
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	24.79	23.39	0.2183
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	23.89	22.49	0.1774
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	23.9	22.5	0.1778
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	23.82	22.42	0.1746
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	81@40	22.34	20.94	0.1242
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@1	22.26	20.86	0.1219
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@160	22.42	21.02	0.1265
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	81@40	19.87	18.47	0.0703
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@1	20.19	18.79	0.0757
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@160	20.21	18.81	0.0760

77	30	60	648668	3730.02	CP-OFDM QPSK	81@40	23.34	21.94	0.1563
77	30	60	648668	3730.02	CP-OFDM QPSK	1@1	23.39	21.99	0.1581
77	30	60	648668	3730.02	CP-OFDM QPSK	1@160	23.4	22	0.1585
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	81@40	25	23.6	0.2291
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.88	23.48	0.2228
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@160	24.99	23.59	0.2286
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	24.88	23.48	0.2228
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	24.86	23.46	0.2218
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	24.87	23.47	0.2223
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	23.96	22.56	0.1803
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.86	22.46	0.1762
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	24.17	22.77	0.1892
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	81@40	22.42	21.02	0.1265
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.63	21.23	0.1327
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@160	22.3	20.9	0.1230
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	81@40	20.56	19.16	0.0824
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.37	18.97	0.0789
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@160	20.39	18.99	0.0793
77	30	60	656000	3840	CP-OFDM QPSK	81@40	23.6	22.2	0.1660
77	30	60	656000	3840	CP-OFDM QPSK	1@1	23.47	22.07	0.1611
77	30	60	656000	3840	CP-OFDM QPSK	1@160	23.59	22.19	0.1656
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	81@40	24.88	23.48	0.2228
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	24.87	23.47	0.2223
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@160	24.88	23.48	0.2228
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	24.92	23.52	0.2249
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	24.78	23.38	0.2178
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	24.79	23.39	0.2183
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	23.97	22.57	0.1807
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	23.83	22.43	0.1750
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	24.08	22.68	0.1854
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	81@40	22.39	20.99	0.1256
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@1	22.21	20.81	0.1205
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@160	22.26	20.86	0.1219
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	81@40	20.45	19.05	0.0804

77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@1	20.09	18.69	0.0740
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@160	20.39	18.99	0.0793
77	30	60	663332	3949.98	CP-OFDM QPSK	81@40	23.39	21.99	0.1581
77	30	60	663332	3949.98	CP-OFDM QPSK	1@1	23.31	21.91	0.1552
77	30	60	663332	3949.98	CP-OFDM QPSK	1@160	23.49	22.09	0.1618
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	108@54	24.87	23.47	0.2223
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	24.78	23.38	0.2178
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@215	24.81	23.41	0.2193
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	24.86	23.46	0.2218
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	24.8	23.4	0.2188
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	24.8	23.4	0.2188
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	23.93	22.53	0.1791
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	23.92	22.52	0.1786
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	23.97	22.57	0.1807
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	108@54	22.37	20.97	0.1250
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@1	22.31	20.91	0.1233
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@215	22.31	20.91	0.1233
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	108@54	20.45	19.05	0.0804
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@1	20.17	18.77	0.0753
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@215	20.02	18.62	0.0728
77	30	80	649334	3740.01	CP-OFDM QPSK	109@54	23.35	21.95	0.1567
77	30	80	649334	3740.01	CP-OFDM QPSK	1@1	23.31	21.91	0.1552
77	30	80	649334	3740.01	CP-OFDM QPSK	1@215	23.33	21.93	0.1560
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	24.82	23.42	0.2198
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.72	23.32	0.2148
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@215	24.74	23.34	0.2158
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	24.79	23.39	0.2183
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	24.72	23.32	0.2148
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	24.7	23.3	0.2138
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	23.83	22.43	0.1750
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.81	22.41	0.1742
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	23.87	22.47	0.1766
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	108@54	22.12	20.72	0.1180
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@1	21.96	20.56	0.1138

77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@215	22.05	20.65	0.1161
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	108@54	20.35	18.95	0.0785
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@1	19.92	18.52	0.0711
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@215	20.06	18.66	0.0735
77	30	80	656000	3840	CP-OFDM QPSK	109@54	23.27	21.87	0.1538
77	30	80	656000	3840	CP-OFDM QPSK	1@1	23.28	21.88	0.1542
77	30	80	656000	3840	CP-OFDM QPSK	1@215	23.1	21.7	0.1479
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	108@54	24.71	23.31	0.2143
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	24.73	23.33	0.2153
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@215	24.58	23.18	0.2080
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	24.75	23.35	0.2163
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	24.65	23.25	0.2113
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	24.56	23.16	0.2070
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	23.78	22.38	0.1730
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	23.89	22.49	0.1774
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	23.78	22.38	0.1730
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	108@54	22.23	20.83	0.1211
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@1	21.92	20.52	0.1127
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@215	22.15	20.75	0.1189
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	108@54	20.27	18.87	0.0771
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@1	20.06	18.66	0.0735
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@215	20	18.6	0.0724
77	30	80	662666	3939.99	CP-OFDM QPSK	109@54	23.24	21.84	0.1528
77	30	80	662666	3939.99	CP-OFDM QPSK	1@1	23.11	21.71	0.1483
77	30	80	662666	3939.99	CP-OFDM QPSK	1@215	23.15	21.75	0.1496
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	24.89	23.49	0.2234
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.8	23.4	0.2188
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	24.87	23.47	0.2223
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	24.88	23.48	0.2228
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	24.72	23.32	0.2148
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	24.79	23.39	0.2183
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	23.84	22.44	0.1754
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.92	22.52	0.1786
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	23.97	22.57	0.1807

77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	22.33	20.93	0.1239
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.25	20.85	0.1216
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.29	20.89	0.1227
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	20.4	19	0.0794
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.1	18.7	0.0741
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.26	18.86	0.0769
77	30	100	650000	3750	CP-OFDM QPSK	137@68	23.37	21.97	0.1574
77	30	100	650000	3750	CP-OFDM QPSK	1@1	23.19	21.79	0.1510
77	30	100	650000	3750	CP-OFDM QPSK	1@271	23.31	21.91	0.1552
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	24.78	23.38	0.2178
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.65	23.25	0.2113
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	24.6	23.2	0.2089
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	24.78	23.38	0.2178
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	24.56	23.16	0.2070
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	24.5	23.1	0.2042
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	23.79	22.39	0.1734
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.78	22.38	0.1730
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	23.71	22.31	0.1702
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	22.22	20.82	0.1208
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.16	20.76	0.1191
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	22.07	20.67	0.1167
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	20.26	18.86	0.0769
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	19.91	18.51	0.0710
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	19.85	18.45	0.0700
77	30	100	656000	3840	CP-OFDM QPSK	137@68	23.27	21.87	0.1538
77	30	100	656000	3840	CP-OFDM QPSK	1@1	23.08	21.68	0.1472
77	30	100	656000	3840	CP-OFDM QPSK	1@271	23.1	21.7	0.1479
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	24.73	23.33	0.2153
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	24.84	23.44	0.2208
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	24.72	23.32	0.2148
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	24.75	23.35	0.2163
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	24.78	23.38	0.2178
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	24.67	23.27	0.2123
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	23.78	22.38	0.1730

77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	23.94	22.54	0.1795
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	23.77	22.37	0.1726
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	22.24	20.84	0.1213
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	22.26	20.86	0.1219
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	22.09	20.69	0.1172
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	20.26	18.86	0.0769
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	20.19	18.79	0.0757
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	20.06	18.66	0.0735
77	30	100	662000	3930	CP-OFDM QPSK	137@68	23.21	21.81	0.1517
77	30	100	662000	3930	CP-OFDM QPSK	1@1	23.23	21.83	0.1524
77	30	100	662000	3930	CP-OFDM QPSK	1@271	23.16	21.76	0.1500

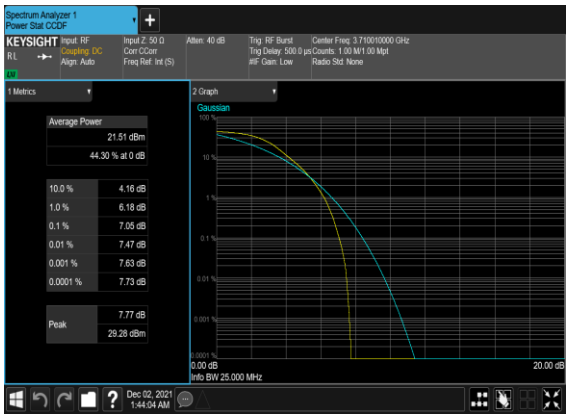
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00484	**PASS**	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.01112	**PASS**	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00794	**PASS**	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00585	**PASS**	-30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.0042	**PASS**	-20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00249	**PASS**	-10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.0083	**PASS**	0℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00889	**PASS**	10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00592	**PASS**	20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.0073	**PASS**	30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00528	**PASS**	40℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	-0.00526	**PASS**	50℃

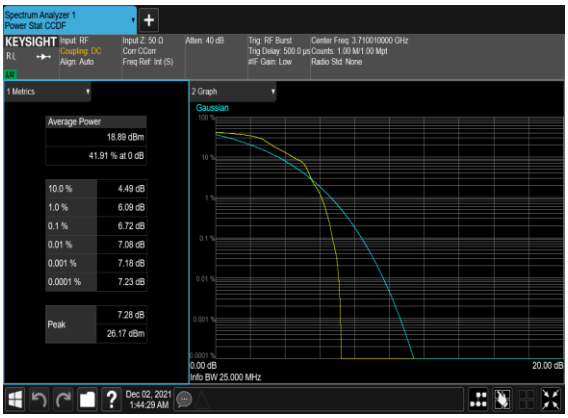
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@0	7.05	13	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	6.72	13	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	8.19	13	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	8.72	13	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	7.08	13	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.14	13	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	8.1	13	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	9.23	13	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@0	6.81	13	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	6.94	13	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	8.1	13	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	9.79	13	**PASS**

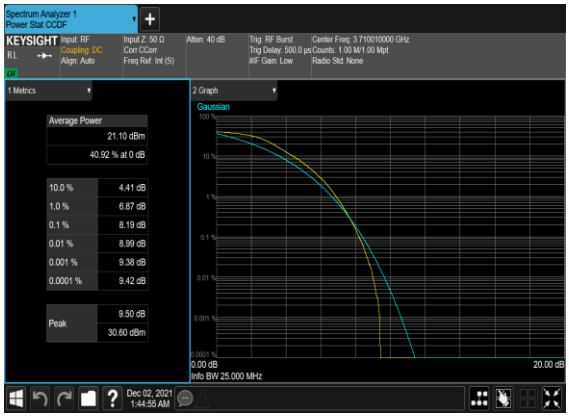
B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



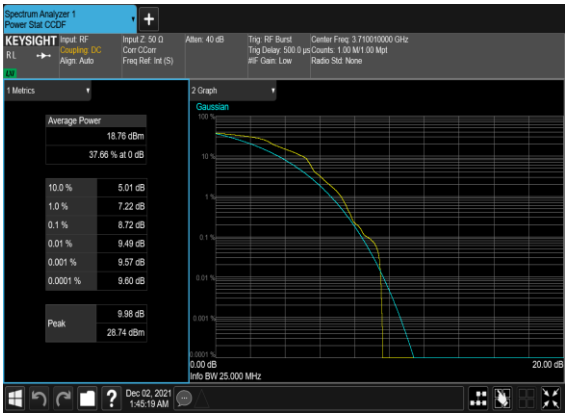
B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



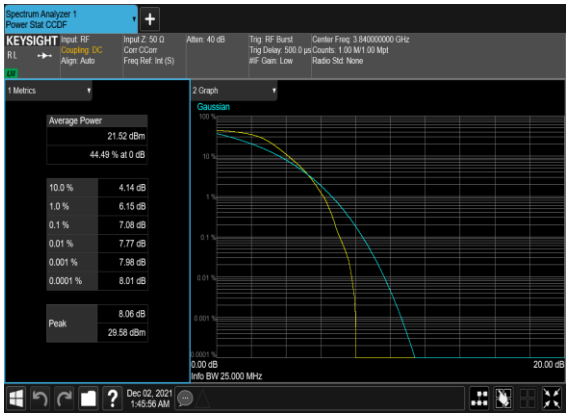
B41_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

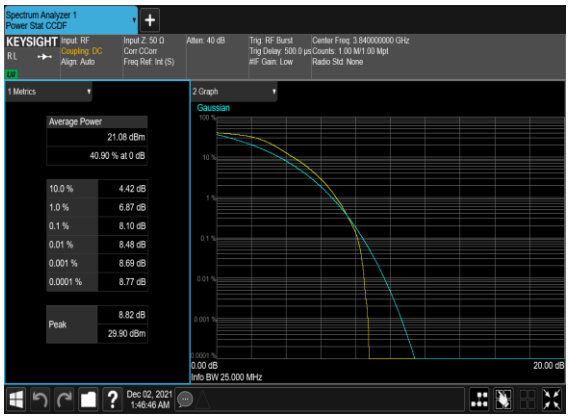


B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



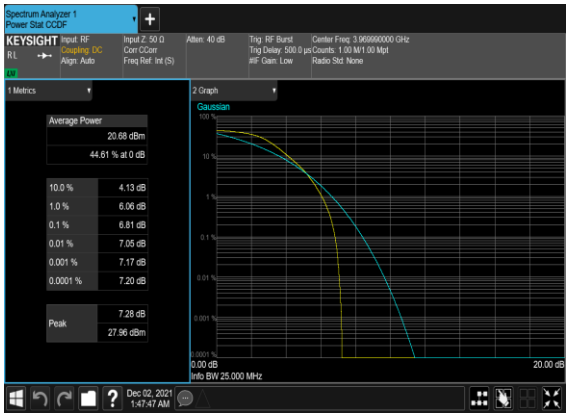
B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

B41_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

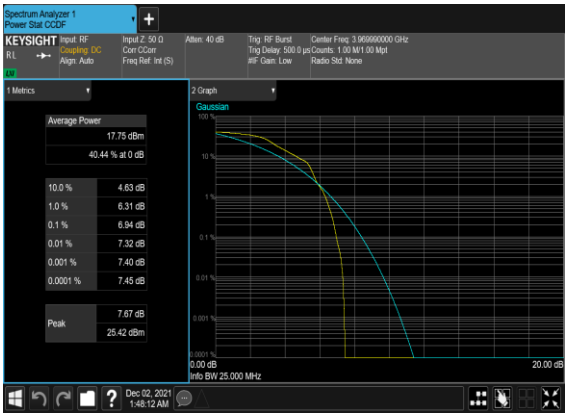


B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

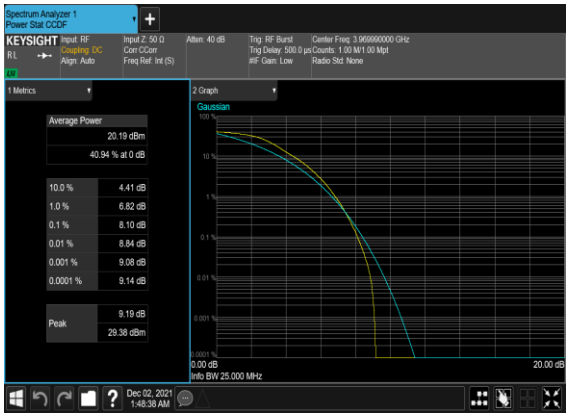
B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B41_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



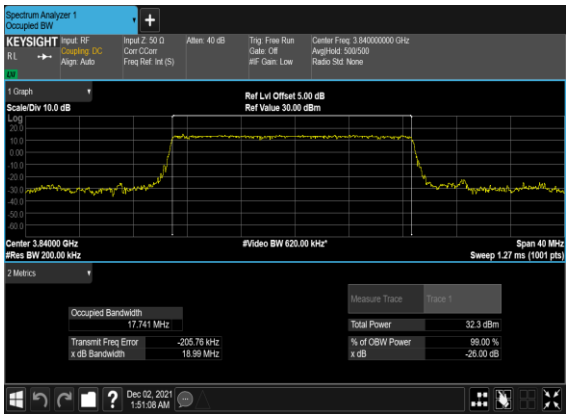
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Occupied Bandwidth

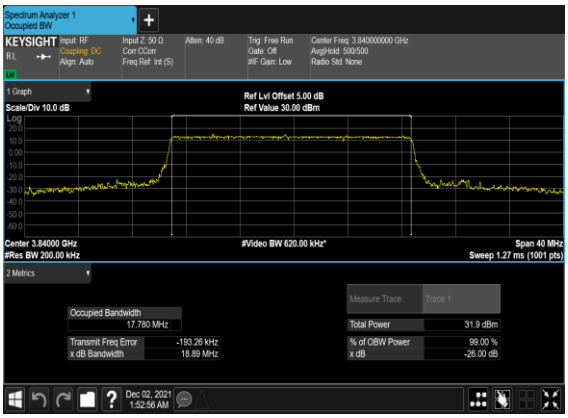
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	17.741	18.99
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17.78	18.89
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.238	19.41
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.202	19.45
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.184	19.4
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.179	19.4
77	30	30	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	26.795	28.22
77	30	30	656000	3840.0	DFT-s-OFDM QPSK	75@0	26.825	28.05
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.85	29.11
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.843	29.05
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.784	29.16
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.841	29.12
77	30	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	35.676	37.31
77	30	40	656000	3840.0	DFT-s-OFDM QPSK	100@0	35.75	37.2
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.736	39.21
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.782	39.47
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.834	39.56
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.84	39.37
77	30	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	45.735	47.39
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	128@0	45.791	47.4
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.505	49.28
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.501	49.43
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.478	49.21
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.457	49.21

77	30	60	656000	3840.0	DFT-s-OFDM PI/2 BPSK	162@0	57.855	60.15
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	162@0	57.962	60.14
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.759	59.82
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.926	59.87
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.776	59.78
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.825	60.0
77	30	80	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	77.121	79.65
77	30	80	656000	3840.0	DFT-s-OFDM QPSK	216@0	77.208	79.66
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.437	79.99
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.431	79.95
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.484	80.06
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.503	80.16
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	96.623	99.56
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	270@0	96.365	99.51
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.359	100.5
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.392	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.508	100.7
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.479	100.6

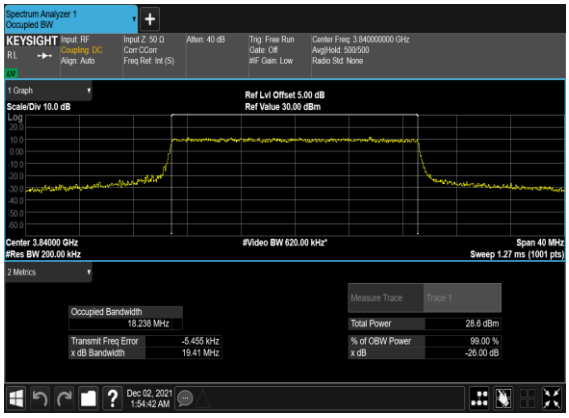
B41_N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



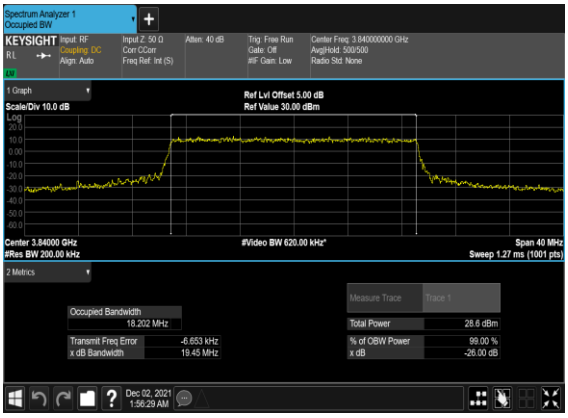
B41_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B41_N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

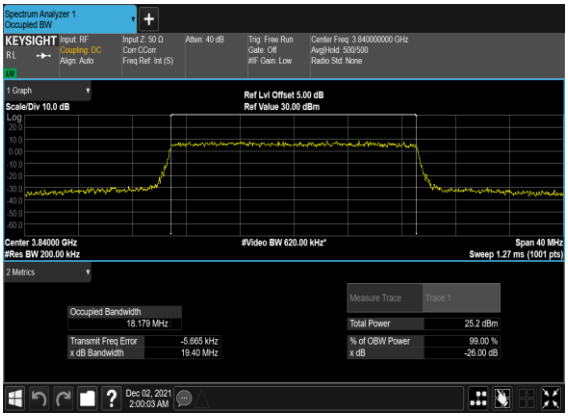


B41_N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

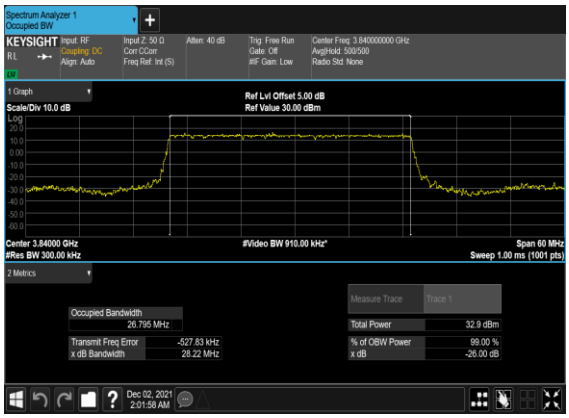


B41_N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

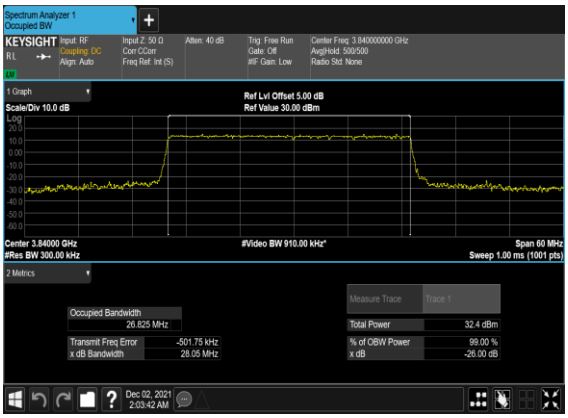
B41_N77(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



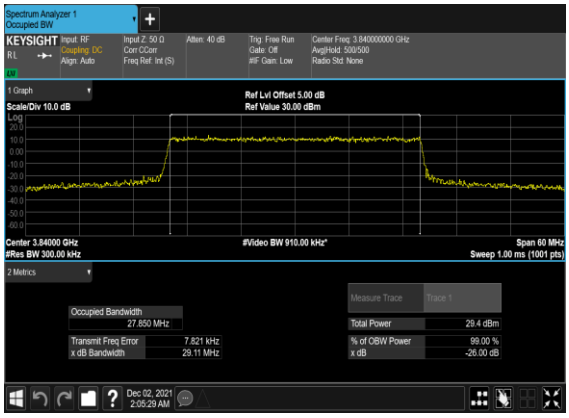
B41_N77(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



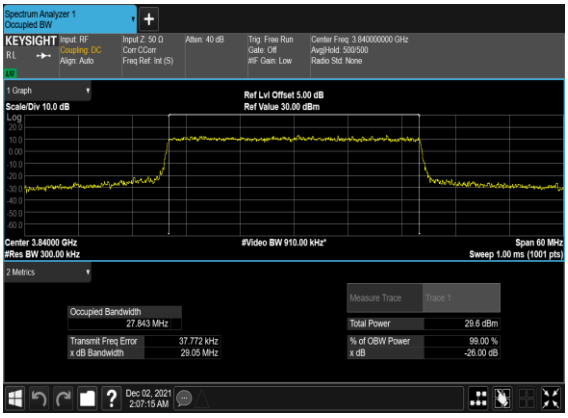
B41_N77(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B41_N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



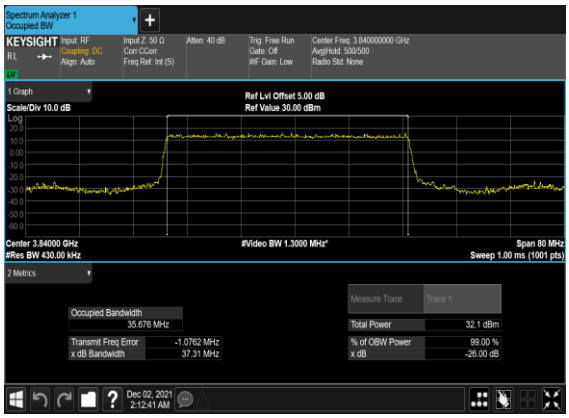
B41_N77(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



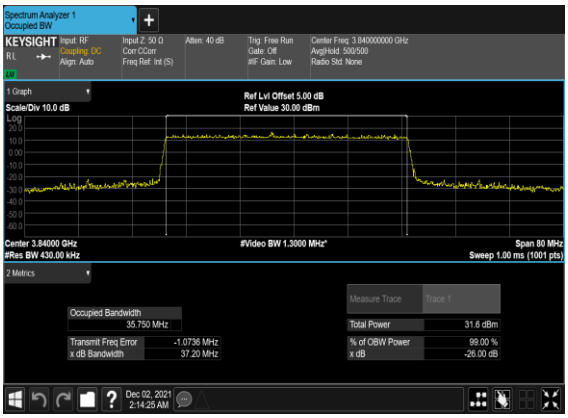
B41_N77(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B41_N77(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

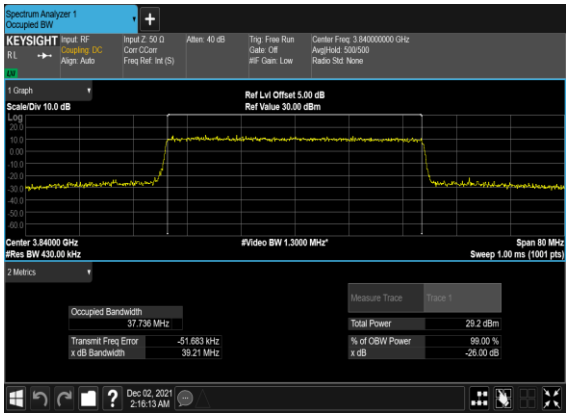
B41_N77(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



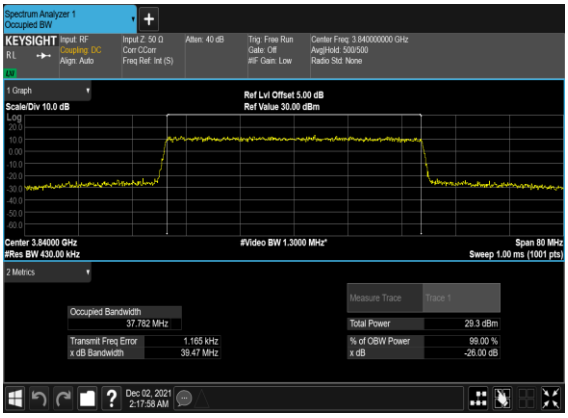
B41_N77(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



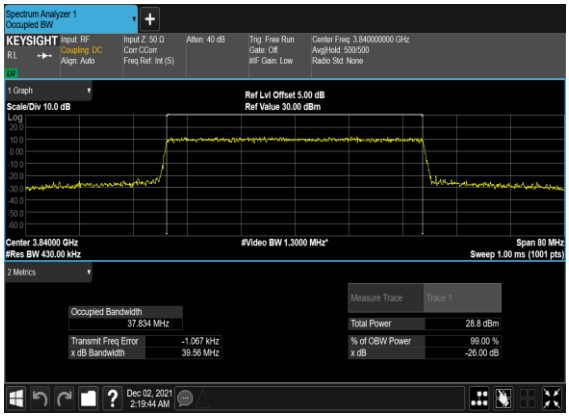
B41_N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



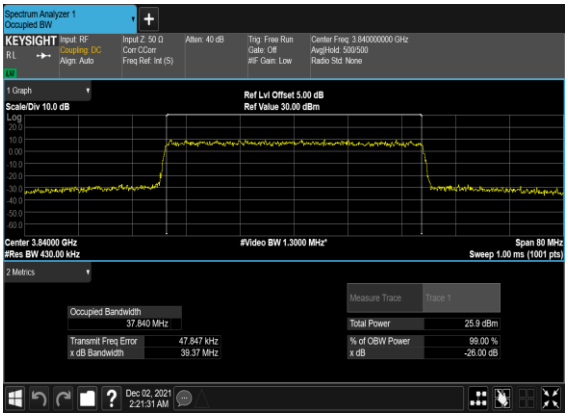
B41_N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B41_N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

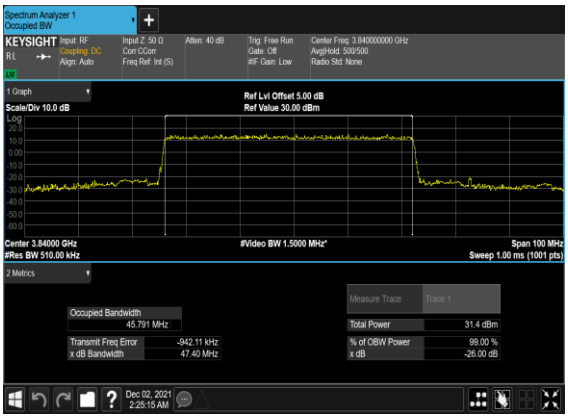


B41_N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

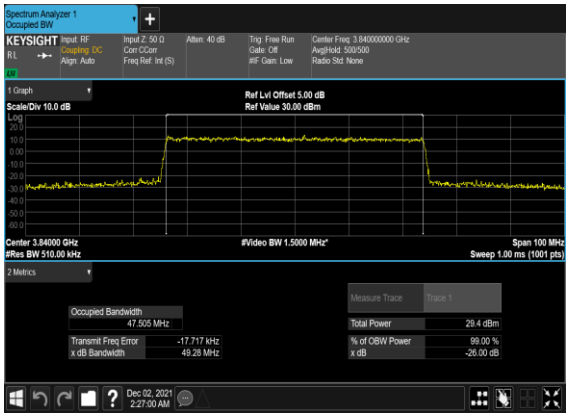


B41_N77(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

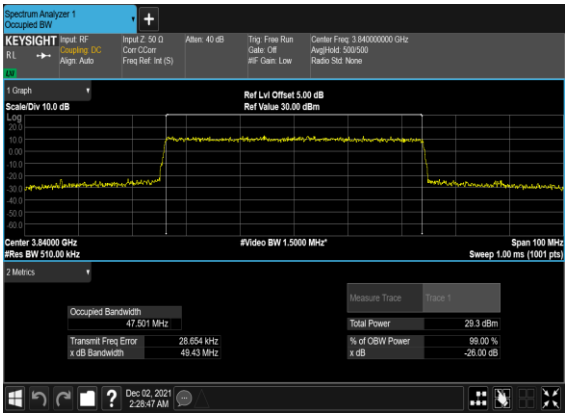
B41_N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



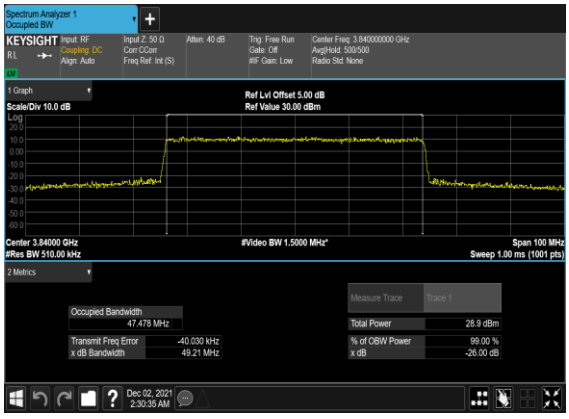
B41_N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



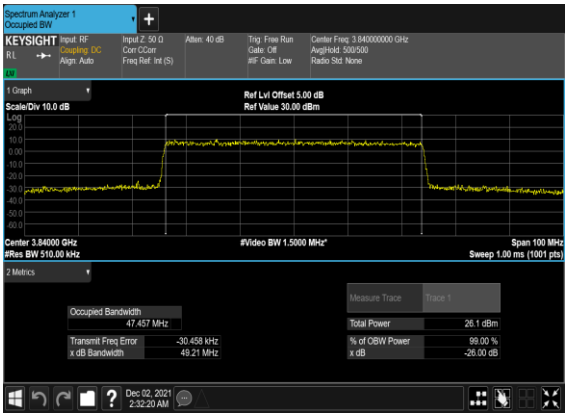
B41_N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B41_N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

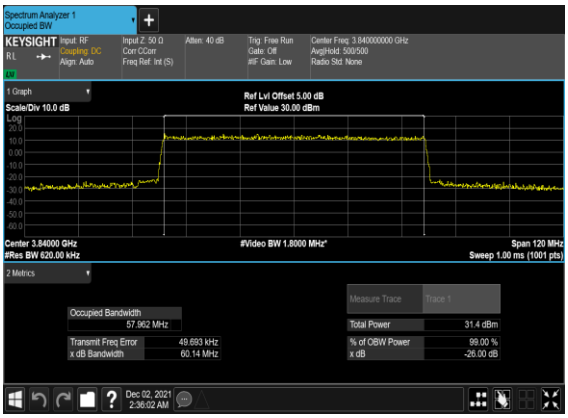


B41_N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

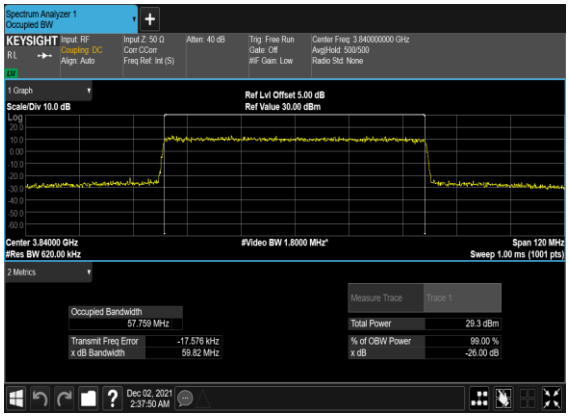


B41_N77(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

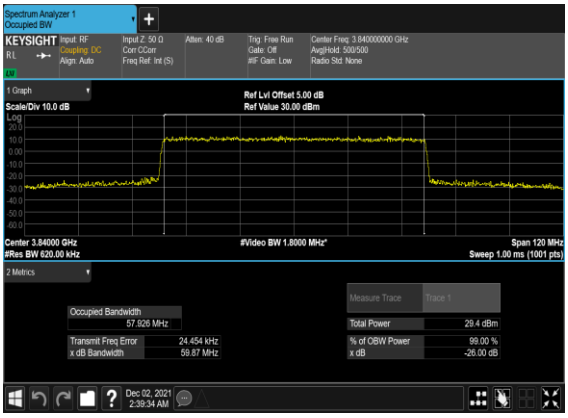
B41_N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



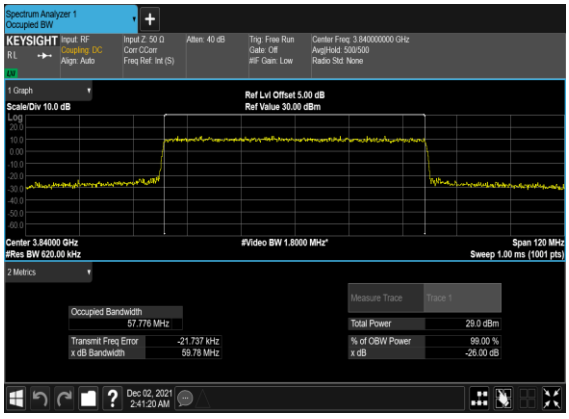
B41_N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



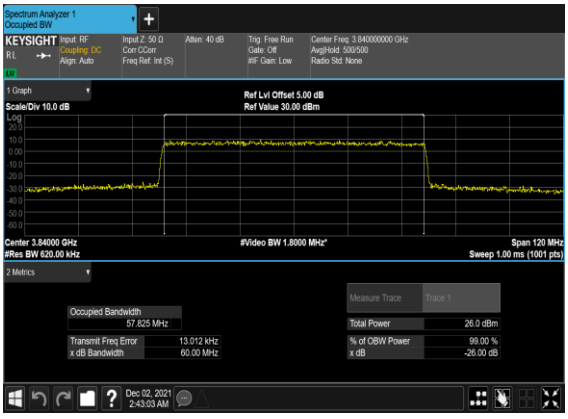
B41_N77(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B41_N77(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

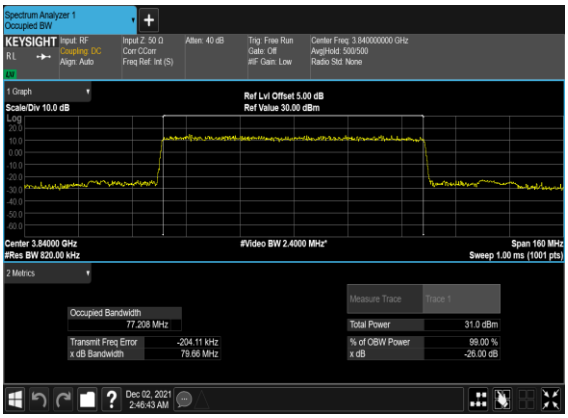


B41_N77(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

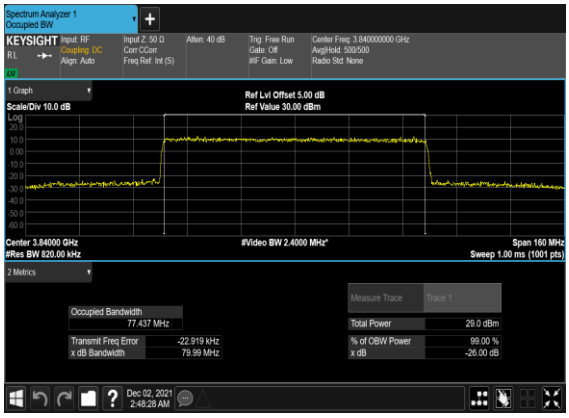


B41_N77(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

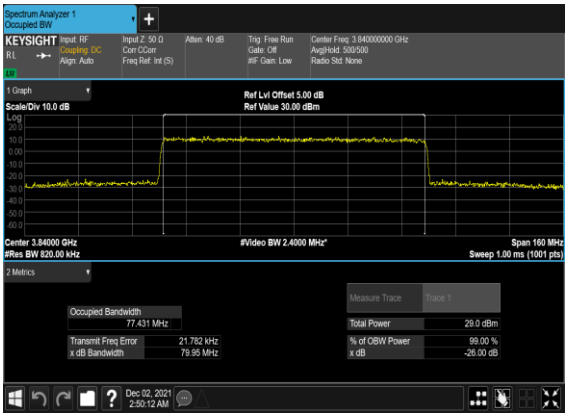
B41_N77(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



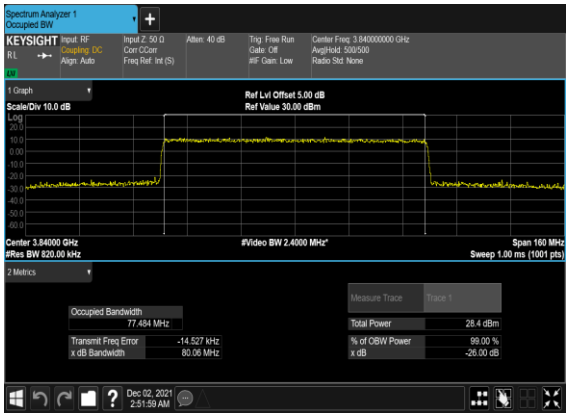
B41_N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



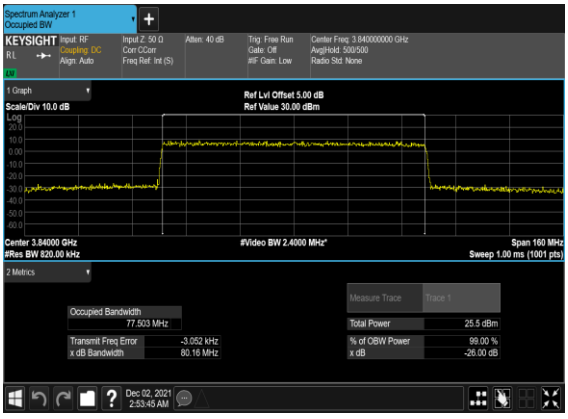
B41_N77(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B41_N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



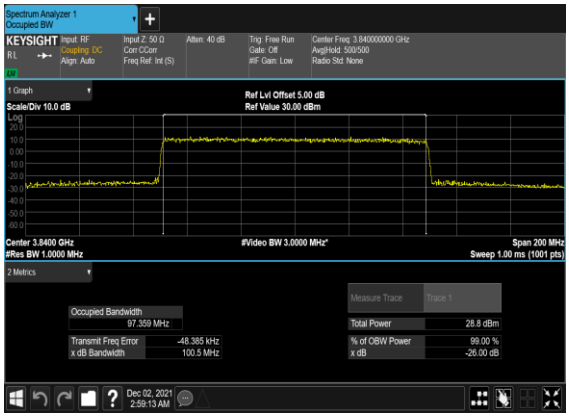
B41_N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



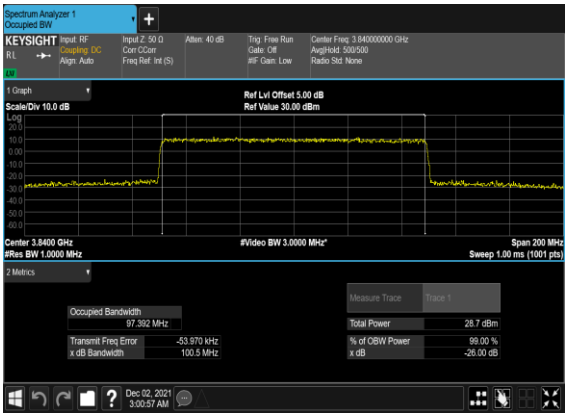
B41_N77(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

B41_N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

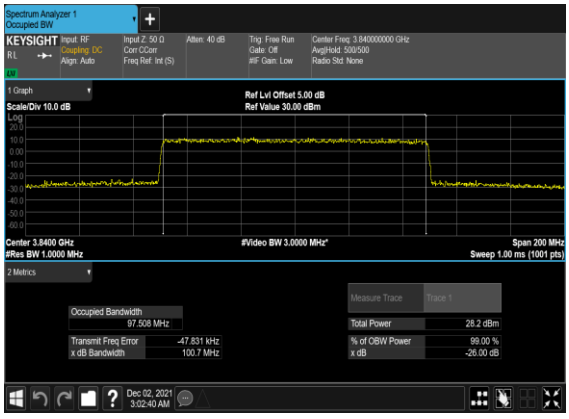
B41_N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



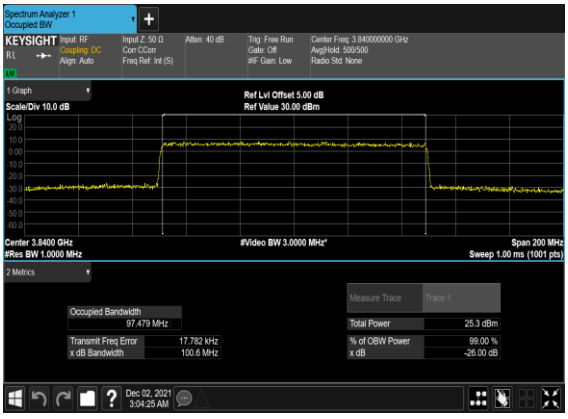
B41_N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B41_N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B41_N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



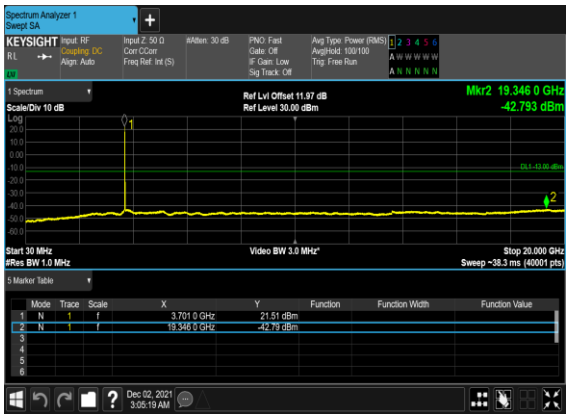
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**---**

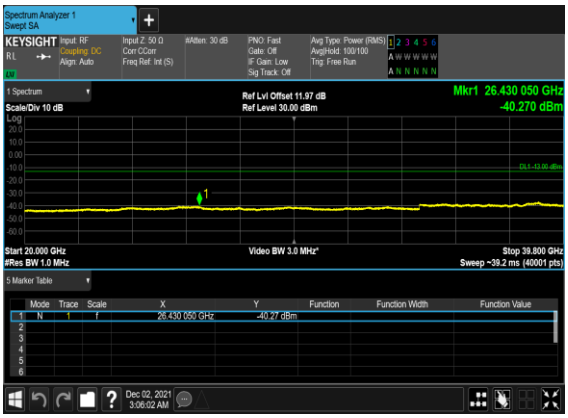
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**---**

77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

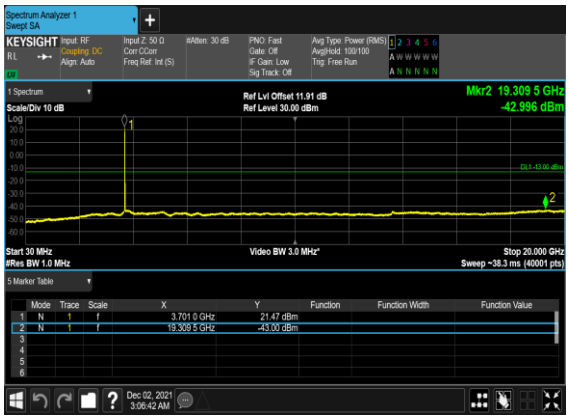
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



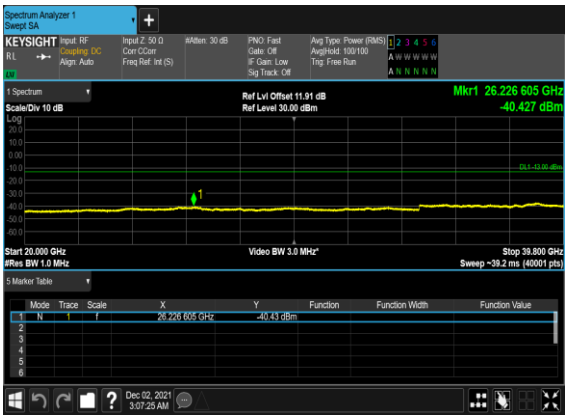
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



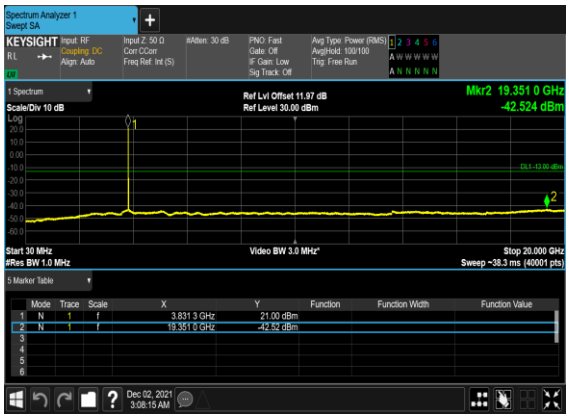
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



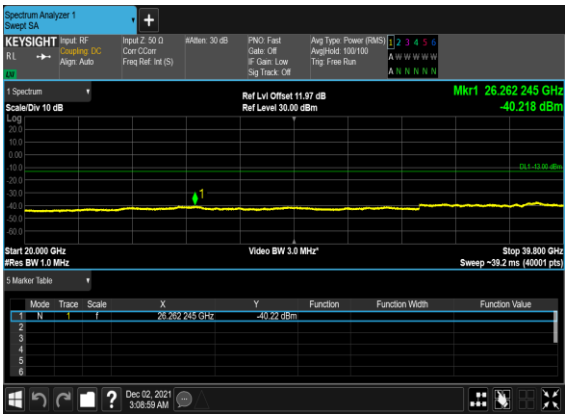
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



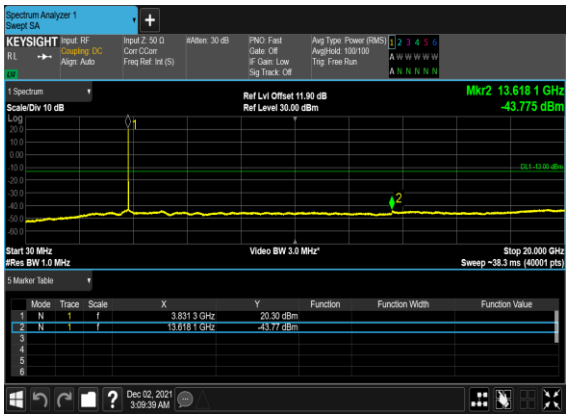
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



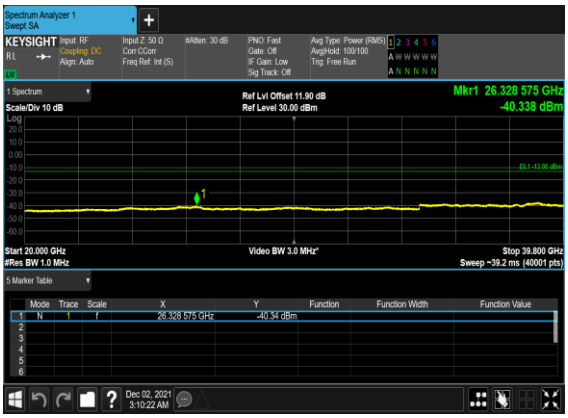
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



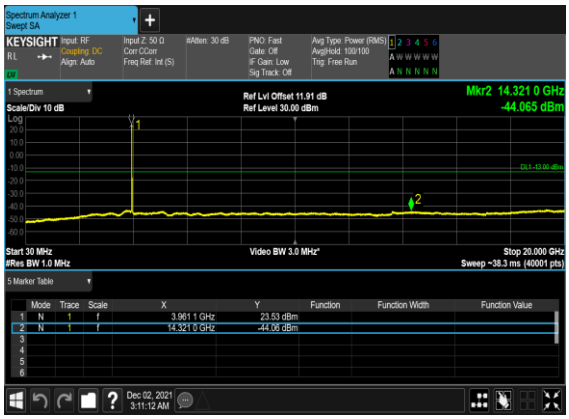
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



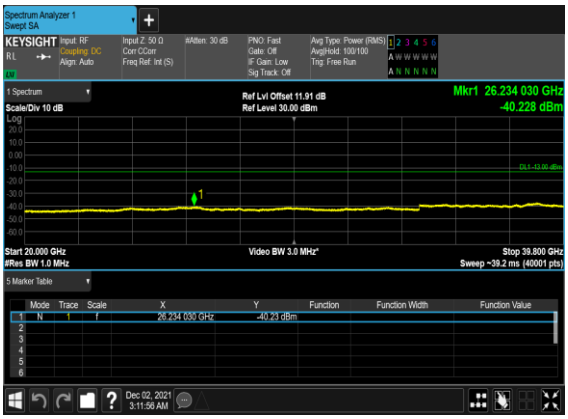
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



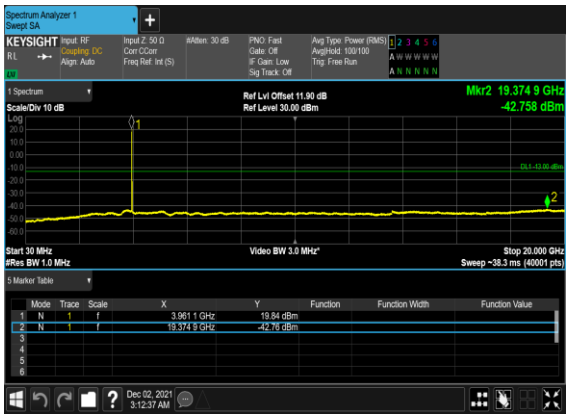
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



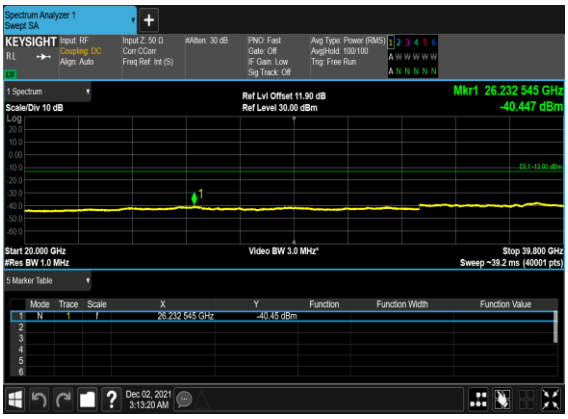
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



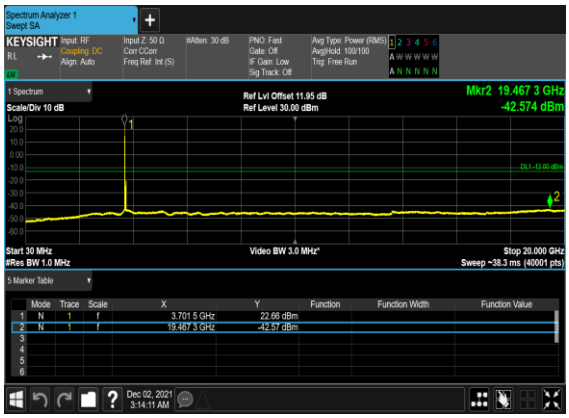
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



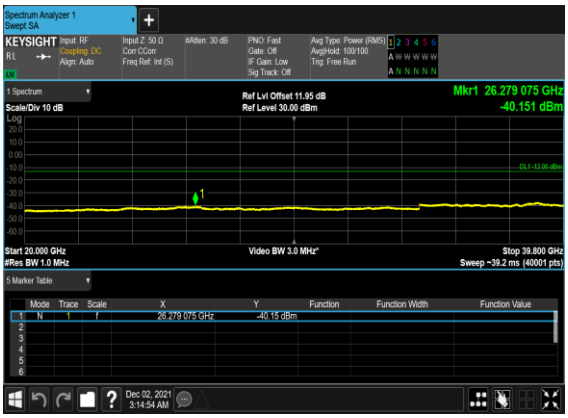
B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



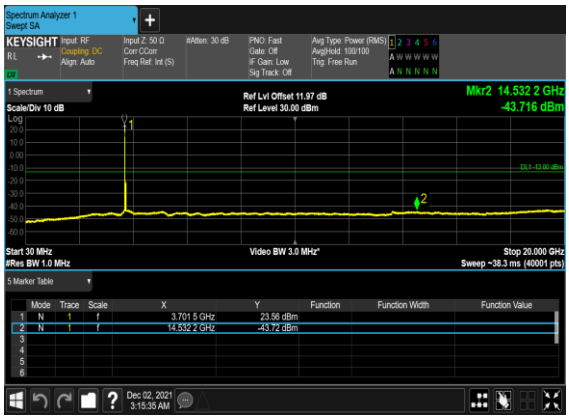
B41_N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



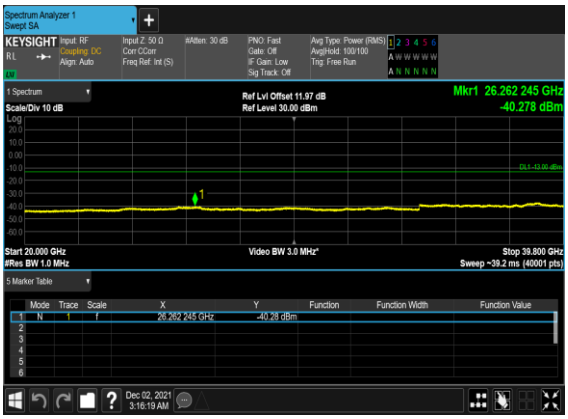
B41_N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



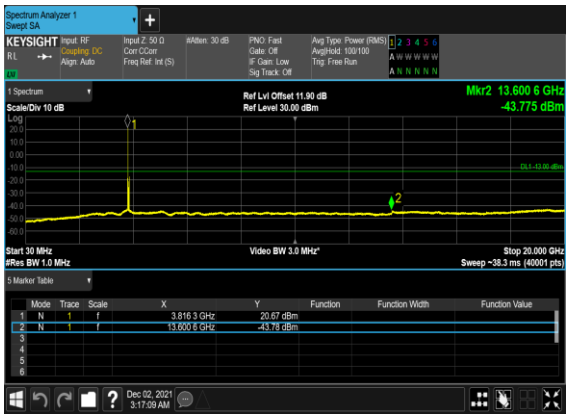
B41_N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



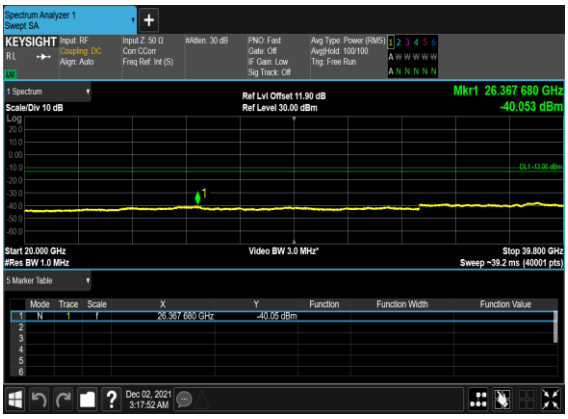
B41_N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



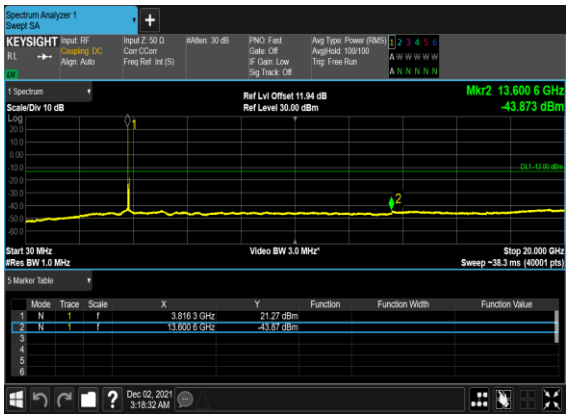
B41_N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



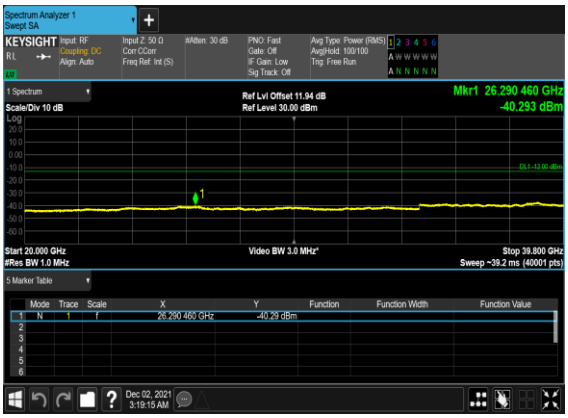
B41_N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



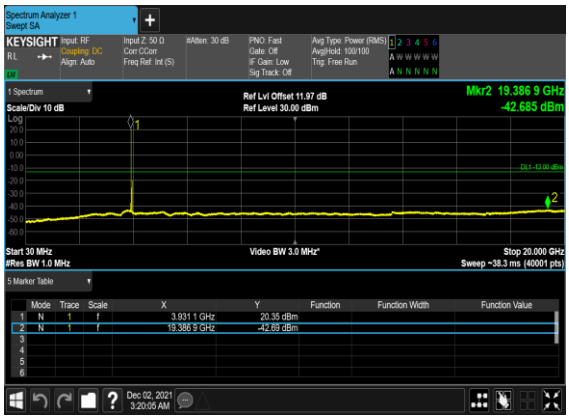
B41_N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



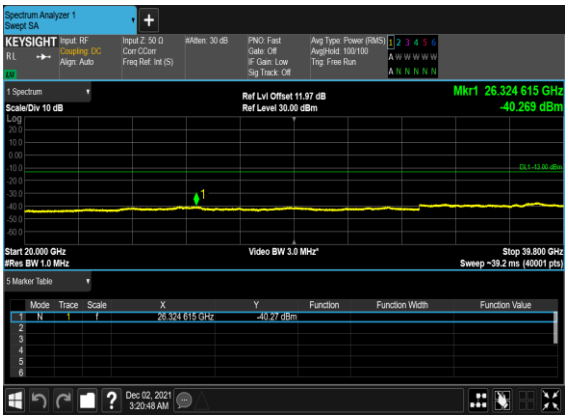
B41_N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



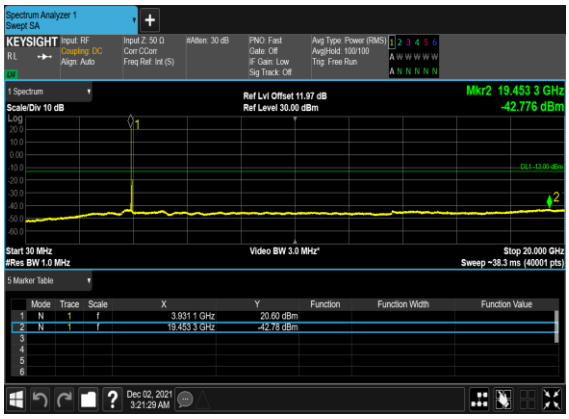
B41_N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



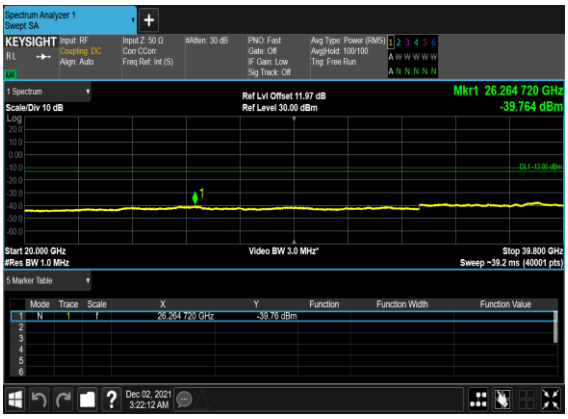
B41_N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



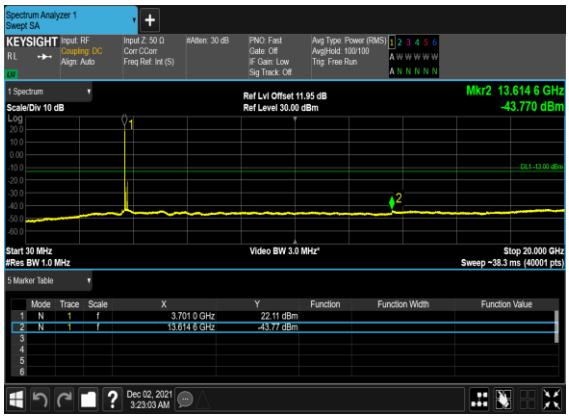
B41_N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



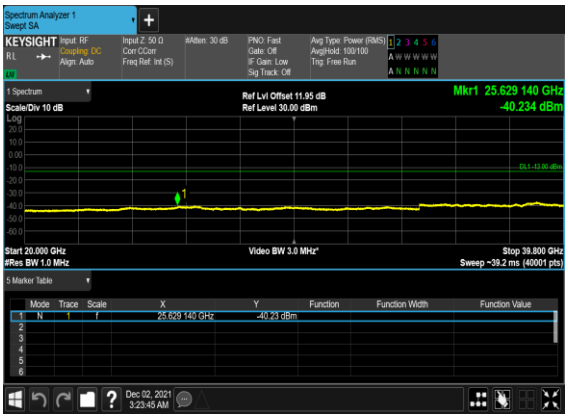
B41_N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



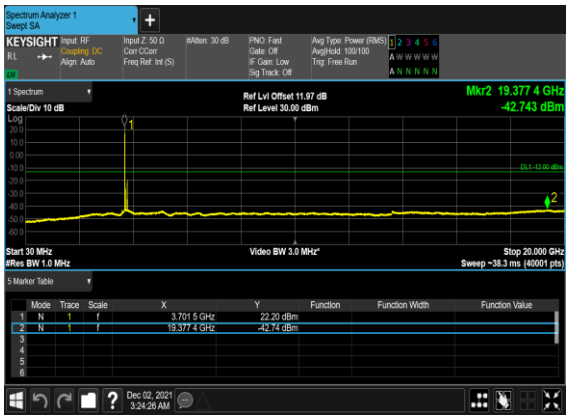
B41_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



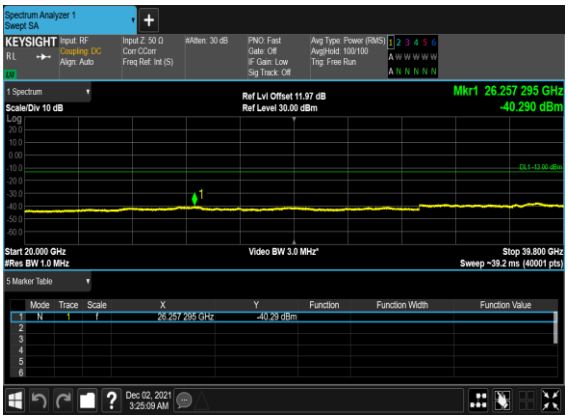
B41_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



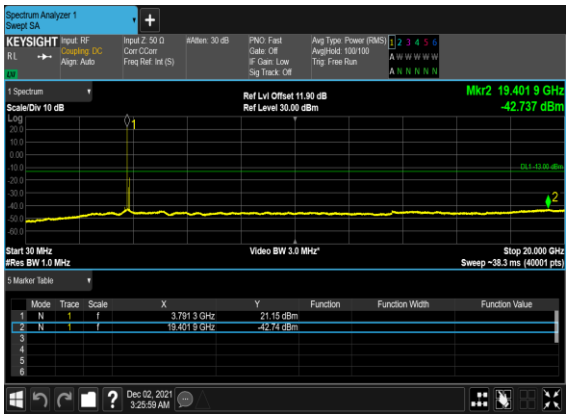
B41_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



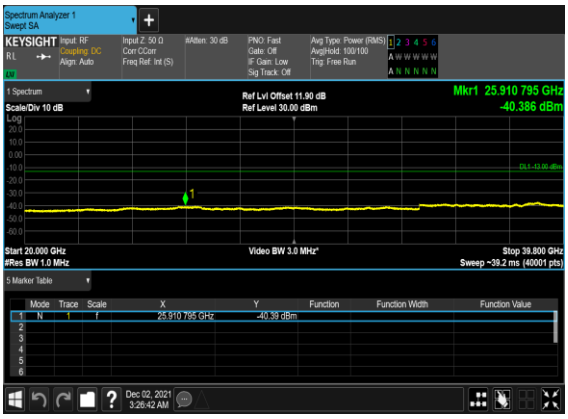
B41_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



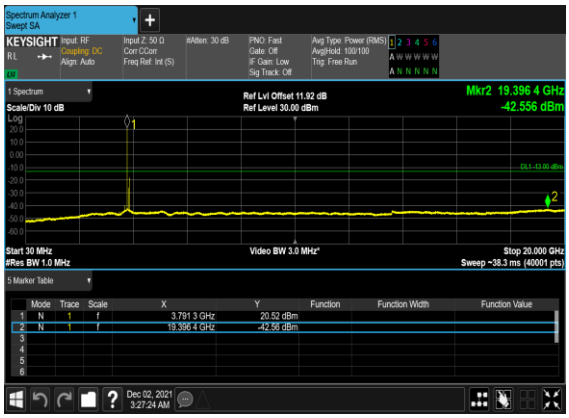
B41_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



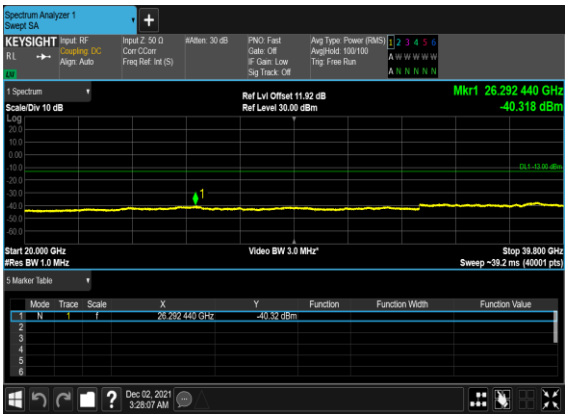
B41_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



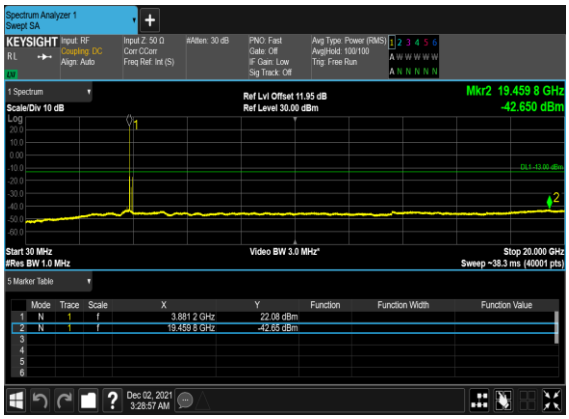
B41_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



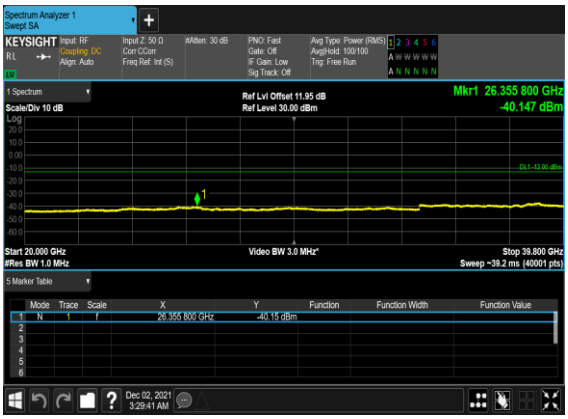
B41_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



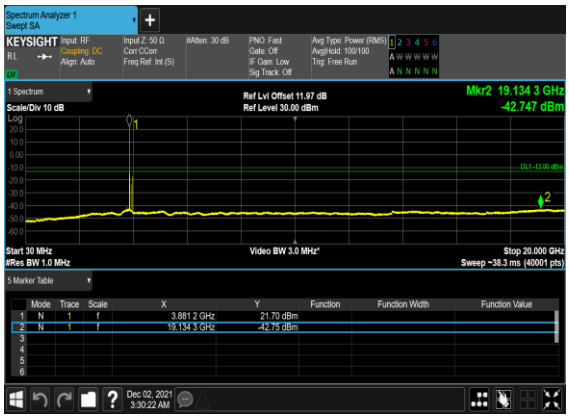
B41_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



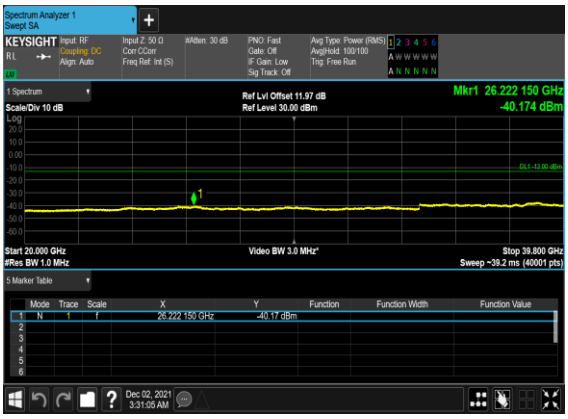
B41_N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B41_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B41_N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

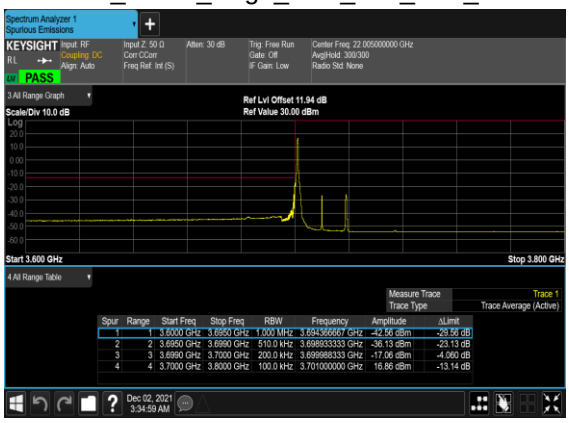


Conducted Band Edge

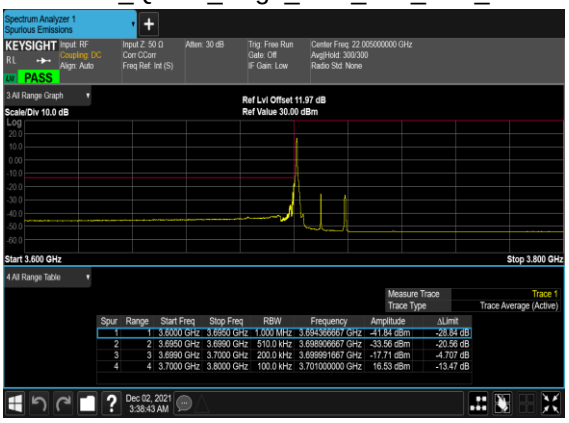
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	**PASS**

77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

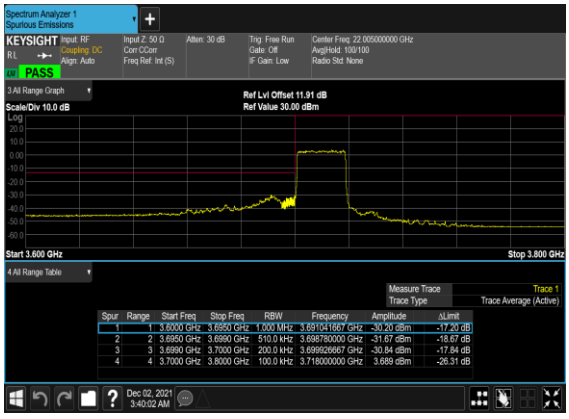
B41_N77(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B41_N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B41_N77(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B41_N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH