FCC RF Test Report

APPLICANT	**: Xiaomi Communications Co., Ltd.**
EQUIPMENT	**: Mobile Phone**
BRAND NAME	**: XIAOMI**
MODEL NAME	**: 2201123G**
FCC ID	**: 2AFZZ123G**
STANDARD	**: 47 CFR Part 2, Part 27 Subpart Q**
CLASSIFICATION	**: PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	**: Nov. 19, 2021 ~ Dec. 09, 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

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1O2709J	Rev. 01	Initial issue of report	Dec. 20, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 36.76 dB at 10350.00 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	XIAOMI
Model Name	2201123G
FCC ID	2AFZZ123G
IMEI Code	Conducted: 860978050062153/860978050062161 Radiation: 860978050061858/860978050061866
HW Version	P2.1
SW Version	MIUI13
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
Bandwidth	20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	**<Ant. 10>** 5G NR n77 : 24.60 dBm 5G NR n78 : 26.13 dBm **<Ant. 10+11>** 5G NR n77 UL_MIMO : 23.24 dBm 5G NR n78 UL_MIMO : 24.42 dBm
Antenna Gain	**<Ant. 10>** 5G NR n77 : -1.9 dBi 5G NR n78 : -1.9 dBi **<Ant. 11>** 5G NR n77 : -5.4 dBi 5G NR n78 : -5.4 dBi **<Ant. 12>** 5G NR n77 : -2.5 dBi 5G NR n78 : -2.5 dBi

	<Ant. 13> 5G NR n77 : -2.7 dBi 5G NR n78 : -2.7 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 is shown in the report: Ant. 10 for n77/n78 SISO mode and Ant. 10+11 for n77/n78 MIMO mode.
2. 5G NR n77/n78 support UL MIMO mode, and only supports CP-OFDM modulation in UL MIMO mode.
3. 5G NR n78 supports SA and NSA mode, n77 supports SA mode only. According to the maximum power between SA and NSA mode, NSA covers SA mode and 5G NR n78 covers n77.
4. The EN-DC combinations declared by the manufacturer are as follows: DC_2A_n78A, DC_5A_n78A, DC_7A_n78A, DC_38A_n78A, DC_41A_n78A and DC_66A_n78A.
5. 5G NR n78 supports HPUE for SA mode.

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 n78/n77		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	0.2612	18M2G7D	0.2061	18M2W7D
30	3465.00 ~ 3534.99	0.2618	27M8G7D	0.2046	27M9W7D
40	3470.01 ~ 3529.98	0.2649	37M8G7D	0.2094	37M9W7D
50	3475.02 ~ 3525.00	0.2489	47M6G7D	0.1959	47M5W7D
60	3480.00 ~ 3519.99	0.2523	57M8G7D	0.1977	57M9W7D
70	3485.01 ~ 3514.98	0.2307	67M6G7D	0.1824	67M5W7D
80	3490.02 ~ 3510.00	0.2432	77M6G7D	0.1972	77M6W7D
90	3495.00 ~ 3504.99	0.2443	87M5G7D	0.1914	87M6W7D
100	3500.01 ~ 3500.01	0.2393	97M4G7D	0.1884	97M6W7D

5G NR n78/n77 UL MIMO		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	0.3077	18M2G7D	0.2788	18M2W7D
30	3465.00 ~ 3534.99	0.3098	27M9G7D	0.2780	27M9W7D
40	3470.01 ~ 3529.98	0.3105	37M8G7D	0.2758	37M9W7D
50	3475.02 ~ 3525.00	0.2891	47M5G7D	0.2594	47M6W7D
60	3480.00 ~ 3519.99	0.2933	57M9G7D	0.2683	57M8W7D
70	3485.01 ~ 3514.98	0.2876	67M5G7D	0.2535	67M7W7D
80	3490.02 ~ 3510.00	0.3555	77M5G7D	0.3180	77M6W7D
90	3495.00 ~ 3504.99	0.3576	87M6G7D	0.3205	87M6W7D
100	3500.01 ~ 3500.01	0.2820	97M5G7D	0.2489	97M5W7D

Note:

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

1.7 Testing Site

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.
	03CH04-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 items in section 3.4 ~ 3.10 of this report.

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	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.

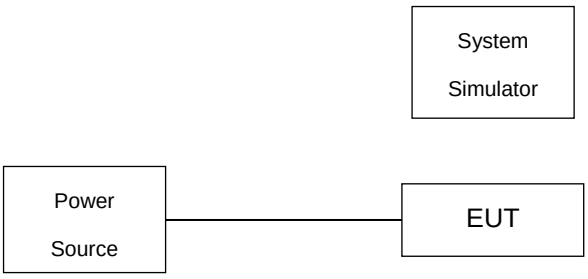
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n78	20M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
E.I.R.P	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n78	20M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n78	20M, 60M, 100M	QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	20M, 60M, 100M	QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

1. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
2. 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

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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

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

Example :

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

= 5.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540

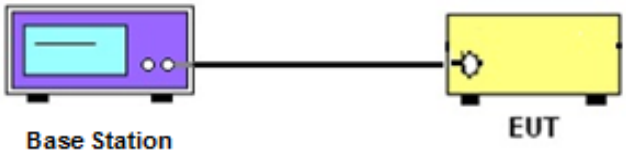
3 Conducted Test Items

3.1 Measuring Instruments

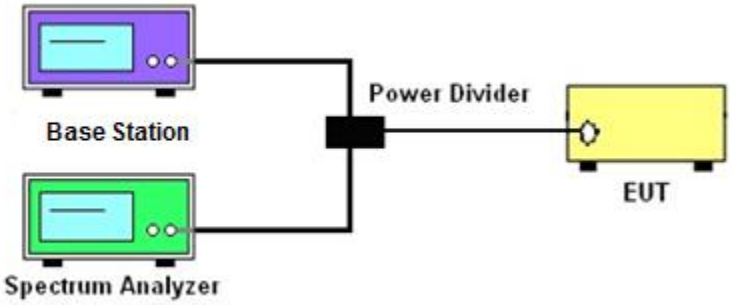
See list of measuring instruments of this test report.

3.2 Test Setup

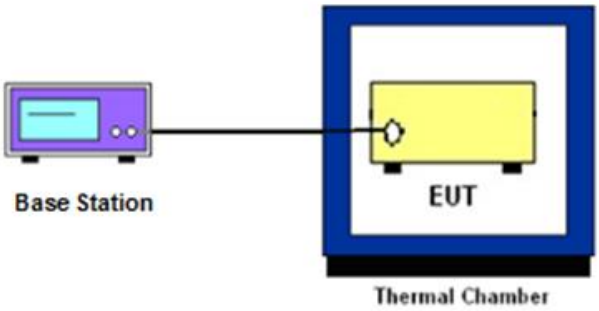
3.2.1 Conducted Output Power



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 9 kHz 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.

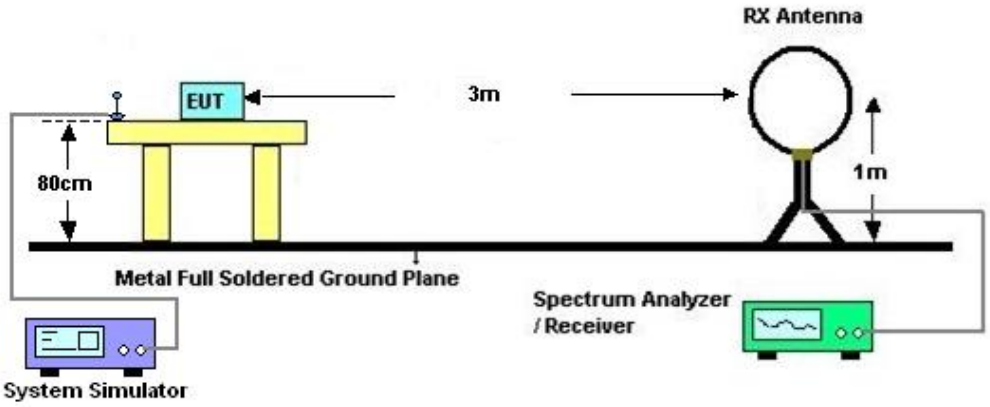
4 Radiated Test Items

4.1 Measuring Instruments

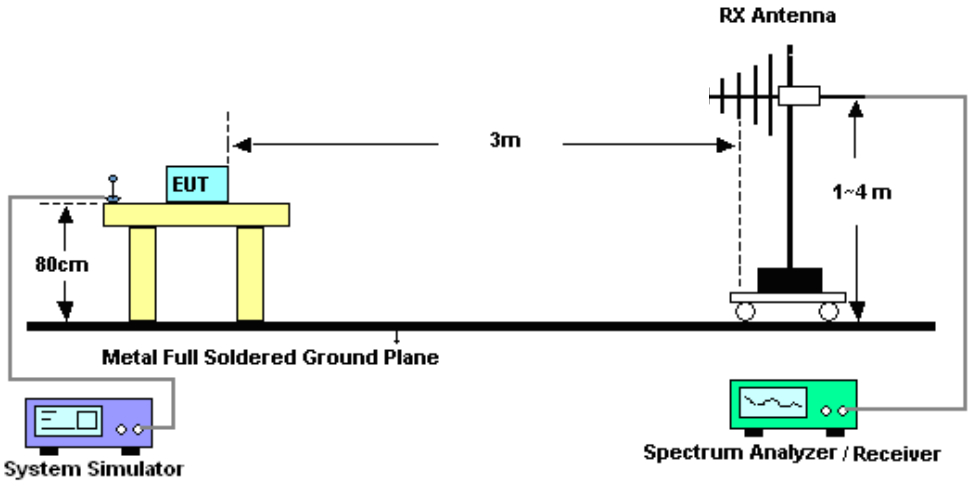
See list of measuring instruments of this test report.

4.2 Test Setup

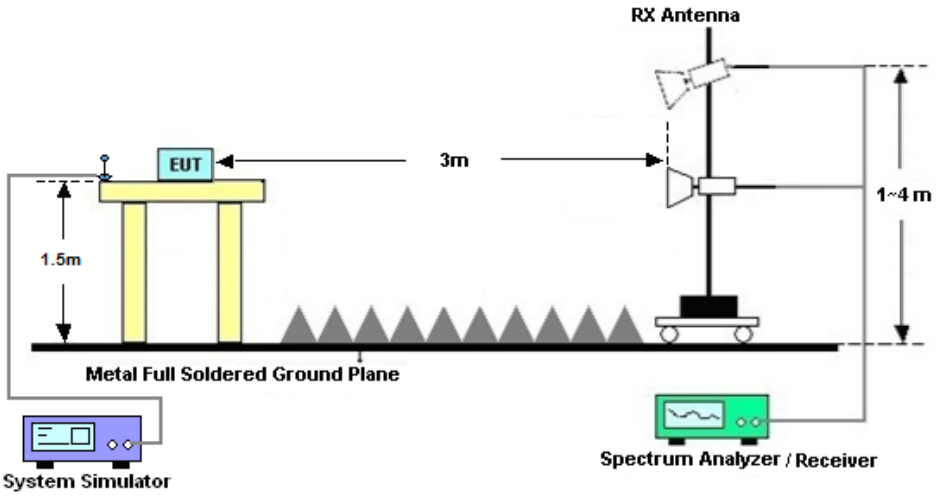
4.2.1 For radiated test below 30MHz



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/TIA-603-E.

The power of any emission outside of the authorized operating frequency ranges shall not exceed −13 dBm/MHz.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
   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. 19, 2021~ Nov. 23, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 25, 2021	Nov. 19, 2021~ Nov. 23, 2021	Oct. 24, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Nov. 19, 2021~ Nov. 23, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Nov. 19, 2021~ Nov. 23, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Dec. 09, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Dec. 09, 2021	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Dec. 09, 2021	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Dec. 09, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Dec. 09, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Dec. 09, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Dec. 09, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Dec. 09, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Dec. 09, 2021	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 09, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 09, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 09, 2021	NCR	Radiation (03CH04-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))	**3.3dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Fly Liang	**Temperature :**	21~23℃
		Relative Humidity :	45~51%

FR1 N77(ANT10)

Conducted Power

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	24.3
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	24.26
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	24.32
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	24.37
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	24.37
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	24.44
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	23.39
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	23.22
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	23.32
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	21.84
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	21.58
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	21.62
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	19.84
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	19.77
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	19.77
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	22.93
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.93
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	22.94
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	24.21
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.24
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	24.17
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	24.33
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.49
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	24.37
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	23.34
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.24
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	23.08
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	21.92
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.91

77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	21.59
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	19.96
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.94
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	19.73
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	22.92
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.91
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	22.89
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	24.25
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	24.21
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	24.17
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	24.5
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	24.48
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	24.43
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	23.44
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	23.2
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	23.33
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	22.06
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	21.91
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	21.87
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	19.91
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	20.05
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	19.8
77	30	20	636000	3540	CP-OFDM QPSK	25@12	23.03
77	30	20	636000	3540	CP-OFDM QPSK	1@1	22.94
77	30	20	636000	3540	CP-OFDM QPSK	1@49	22.89
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	24.26
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	24.27
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	24.18
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	24.44
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	24.49
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	24.52
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	23.4
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	23.33
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	23.48

77	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	21.92
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	21.87
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	21.65
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	19.91
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	19.73
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	19.72
77	30	30	631000	3465	CP-OFDM QPSK	39@19	22.94
77	30	30	631000	3465	CP-OFDM QPSK	1@1	22.93
77	30	30	631000	3465	CP-OFDM QPSK	1@76	22.85
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	24.18
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.34
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	24.05
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	24.42
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.34
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	24.27
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	23.4
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.58
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	23.35
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	21.94
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.99
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	21.71
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	19.88
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.8
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	19.54
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	22.92
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	23.07
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	22.65
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	24.19
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	24.27
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	24.21
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	24.4
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	24.52
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	24.45
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	23.39

77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	23.3
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	23.45
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	21.88
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	21.73
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	21.64
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	19.88
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	19.85
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	19.91
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	22.91
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	23
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	22.79
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	24.28
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	24.34
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	24.22
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	24.44
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	24.49
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	24.49
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	23.45
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	23.37
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	23.23
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	21.98
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	21.74
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	21.93
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	19.96
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	20.03
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	19.88
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	22.99
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	22.91
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	22.92
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	24.23
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.37
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	24.14
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	24.46
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.57

77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	24.47
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	23.46
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.31
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	23.29
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	21.95
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.79
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	21.71
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	19.92
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.97
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	20
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	22.95
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	22.99
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	22.81
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	24.17
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	24.32
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	24.25
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	24.39
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	24.58
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	24.44
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	23.5
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	23.28
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	23.32
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	21.93
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	22
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	21.67
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	20
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	19.93
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	19.8
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	23
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	22.99
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	22.87
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	24.06
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	24.05
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	23.8

77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	24.26
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	24.31
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	24.07
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	23.32
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	23.28
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	23.12
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	21.78
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	21.74
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	21.52
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	19.75
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	19.77
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	19.59
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	22.76
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	22.72
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	22.59
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	24.03
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.15
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	23.87
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	24.26
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.38
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	24.13
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	23.27
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.32
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	23.11
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	21.76
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.63
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	21.35
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	19.71
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.64
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	19.63
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	22.73
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	22.86
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	22.59
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	24.05

77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	24.09
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	23.8
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	24.29
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	24.36
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	24.21
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	23.31
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	23.19
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	23.25
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	21.73
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	21.76
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	21.61
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	19.71
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	19.8
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	19.59
77	30	50	635000	3525	CP-OFDM QPSK	67@33	22.73
77	30	50	635000	3525	CP-OFDM QPSK	1@1	22.8
77	30	50	635000	3525	CP-OFDM QPSK	1@131	22.6
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	24.16
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	24.06
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	23.86
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	24.37
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	24.29
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	24.13
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	23.35
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	23.16
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	22.92
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	21.85
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	21.71
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	21.33
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	19.85
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	19.55
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	19.38
77	30	60	632000	3480	CP-OFDM QPSK	81@40	22.84
77	30	60	632000	3480	CP-OFDM QPSK	1@1	22.74

77	30	60	632000	3480	CP-OFDM QPSK	1@160	22.6
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	24.11
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.16
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	23.9
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	24.31
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.37
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	24.09
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	23.29
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.32
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	22.98
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	21.76
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.56
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	21.49
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	19.83
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.68
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	19.56
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	22.78
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	22.82
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	22.56
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	24.14
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	24.1
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	23.85
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	24.34
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	24.42
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	24.09
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	23.34
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	23.09
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	22.88
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	21.82
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	21.58
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	21.52
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	19.83
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	19.64
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	19.65

77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	22.8
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	22.86
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	22.57
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	23.91
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	23.94
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	23.65
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	23.86
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	24.07
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	23.62
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	22.85
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	22.96
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	22.66
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	21.37
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	21.32
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	20.98
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	19.35
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	19.4
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	19
77	30	70	632334	3485.01	CP-OFDM QPSK	95@47	22.47
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	22.53
77	30	70	632334	3485.01	CP-OFDM QPSK	1@187	22.19
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	23.89
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.95
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	23.7
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	23.84
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	24
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	23.6
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	22.57
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.75
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	22.4
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	21.11
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.07
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	20.65
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	19.07

77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.21
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	18.79
77	30	70	633334	3500.01	CP-OFDM QPSK	95@47	22.07
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	22.32
77	30	70	633334	3500.01	CP-OFDM QPSK	1@187	22.01
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	23.68
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	23.67
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	23.65
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	23.65
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	23.7
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	23.49
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	22.64
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	22.71
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	22.49
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	21.18
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	21.11
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	20.73
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	19.13
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	19.08
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	18.81
77	30	70	634332	3514.98	CP-OFDM QPSK	95@47	22.18
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	22.29
77	30	70	634332	3514.98	CP-OFDM QPSK	1@187	22.08
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	23.93
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	23.93
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	23.7
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	24.13
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	24.07
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	23.83
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	23.15
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	22.84
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	22.79
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	21.64
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	21.29

77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	21.11
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	19.62
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	19.62
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	19.45
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	22.65
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	22.58
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	22.43
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	23.89
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.92
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	23.59
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	24.11
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.13
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	23.85
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	23.13
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.02
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	22.78
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	21.62
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.37
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	21.09
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	19.57
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.62
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	19.23
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	22.6
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	22.62
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	22.29
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	23.89
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	23.98
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	23.64
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	24.14
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	24.24
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	23.89
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	23.14
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.93
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	22.67

77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	21.63
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	21.69
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	21.15
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	19.61
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	19.61
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	19.28
77	30	80	634000	3510	CP-OFDM QPSK	109@54	22.64
77	30	80	634000	3510	CP-OFDM QPSK	1@1	22.73
77	30	80	634000	3510	CP-OFDM QPSK	1@215	22.34
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	23.91
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	23.85
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	23.65
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	24.1
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	24.06
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	23.9
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	23.1
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	22.95
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	22.87
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	21.57
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	21.64
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	21.46
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	19.63
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	19.45
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	19.43
77	30	90	633000	3495	CP-OFDM QPSK	123@61	22.54
77	30	90	633000	3495	CP-OFDM QPSK	1@1	22.51
77	30	90	633000	3495	CP-OFDM QPSK	1@243	22.39
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	23.9
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.91
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	23.66
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	24.11
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.13
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	23.94
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	23.1

77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.04
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	22.91
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	21.6
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.63
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	21.48
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	19.61
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.59
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	19.33
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	22.64
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	22.55
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	22.36
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	23.88
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	23.96
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	23.72
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	24.16
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	24.21
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	23.95
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	23.14
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.11
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	22.83
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	21.67
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	21.78
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	21.51
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	19.63
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	19.58
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	19.48
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	22.65
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	22.66
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	22.45
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	24.4
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.41
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.12
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	24.45
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.6

77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.41
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	23.61
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.55
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	23.42
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.17
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.17
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.01
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	20.1
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.89
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	23.09
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.03
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.94

FR1 N77 UL MIMO(ANT10+ANT11)

Conducted Power

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT10 Power(dBm)	ANT11 Power(dBm)	Conducted Power(dBm)
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	19.85	20.25	23.06
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	20.01	20.35	23.19
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	19.97	20.37	23.18
77	30	20	630668	3460.02	CP-OFDM 16 QAM	25@12	19.31	19.65	22.49
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	19.38	19.71	22.56
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@49	19.21	19.79	22.52
77	30	20	630668	3460.02	CP-OFDM 64 QAM	25@12	17.79	18.3	21.06
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	17.8	18.1	20.96
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@49	17.77	18.15	20.97
77	30	20	630668	3460.02	CP-OFDM 256 QAM	25@12	14.78	15.25	18.03
77	30	20	630668	3460.02	CP-OFDM 256 QAM	1@1	14.92	15.31	18.13
77	30	20	630668	3460.02	CP-OFDM 256 QAM	1@49	14.89	15.32	18.12
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	19.87	20	22.95
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	19.99	20.25	23.13
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	19.92	20.2	23.07
77	30	20	633334	3500.01	CP-OFDM 16 QAM	25@12	19.29	19.53	22.42
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	19.33	19.64	22.50
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@49	19.2	19.58	22.40
77	30	20	633334	3500.01	CP-OFDM 64 QAM	25@12	17.81	18.04	20.94
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	17.85	18.02	20.95
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@49	17.78	17.97	20.89
77	30	20	633334	3500.01	CP-OFDM 256 QAM	25@12	14.79	15.02	17.92
77	30	20	633334	3500.01	CP-OFDM 256 QAM	1@1	14.92	15.18	18.06
77	30	20	633334	3500.01	CP-OFDM 256 QAM	1@49	14.85	15.14	18.01
77	30	20	636000	3540	CP-OFDM QPSK	25@12	19.77	20.16	22.98
77	30	20	636000	3540	CP-OFDM QPSK	1@1	19.97	20.36	23.18
77	30	20	636000	3540	CP-OFDM QPSK	1@49	19.7	20.2	22.97
77	30	20	636000	3540	CP-OFDM 16 QAM	25@12	19.27	19.66	22.48
77	30	20	636000	3540	CP-OFDM 16 QAM	1@1	19.33	19.8	22.58

77	30	20	636000	3540	CP-OFDM 16 QAM	1@49	19.21	19.68	22.46
77	30	20	636000	3540	CP-OFDM 64 QAM	25@12	17.86	18.18	21.03
77	30	20	636000	3540	CP-OFDM 64 QAM	1@1	17.88	18.21	21.06
77	30	20	636000	3540	CP-OFDM 64 QAM	1@49	17.71	18.15	20.95
77	30	20	636000	3540	CP-OFDM 256 QAM	25@12	14.84	15.14	18.00
77	30	20	636000	3540	CP-OFDM 256 QAM	1@1	14.99	15.34	18.18
77	30	20	636000	3540	CP-OFDM 256 QAM	1@49	14.86	15.18	18.03
77	30	30	631000	3465	CP-OFDM QPSK	39@19	19.76	20.14	22.96
77	30	30	631000	3465	CP-OFDM QPSK	1@1	19.98	20.46	23.24
77	30	30	631000	3465	CP-OFDM QPSK	1@76	19.89	20.24	23.08
77	30	30	631000	3465	CP-OFDM 16 QAM	39@19	19.23	19.64	22.45
77	30	30	631000	3465	CP-OFDM 16 QAM	1@1	19.45	19.8	22.64
77	30	30	631000	3465	CP-OFDM 16 QAM	1@76	19.29	19.66	22.49
77	30	30	631000	3465	CP-OFDM 64 QAM	39@19	17.76	18.2	21.00
77	30	30	631000	3465	CP-OFDM 64 QAM	1@1	17.56	18.31	20.96
77	30	30	631000	3465	CP-OFDM 64 QAM	1@76	17.51	18.15	20.85
77	30	30	631000	3465	CP-OFDM 256 QAM	39@19	14.73	15.17	17.97
77	30	30	631000	3465	CP-OFDM 256 QAM	1@1	14.94	15.34	18.15
77	30	30	631000	3465	CP-OFDM 256 QAM	1@76	14.76	15.15	17.97
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	19.8	19.97	22.90
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	20.01	20.3	23.17
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	19.81	20.24	23.04
77	30	30	633334	3500.01	CP-OFDM 16 QAM	39@19	19.28	19.48	22.39
77	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	19.52	19.72	22.63
77	30	30	633334	3500.01	CP-OFDM 16 QAM	1@76	19.25	19.57	22.42
77	30	30	633334	3500.01	CP-OFDM 64 QAM	39@19	17.8	18.05	20.94
77	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	17.8	18.25	21.04
77	30	30	633334	3500.01	CP-OFDM 64 QAM	1@76	17.87	17.96	20.93
77	30	30	633334	3500.01	CP-OFDM 256 QAM	39@19	14.76	15.03	17.91
77	30	30	633334	3500.01	CP-OFDM 256 QAM	1@1	15.04	15.31	18.19
77	30	30	633334	3500.01	CP-OFDM 256 QAM	1@76	14.91	15.19	18.06
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	19.77	20.08	22.94
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	20.05	20.38	23.23
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	19.8	20.34	23.09

77	30	30	635666	3534.99	CP-OFDM 16 QAM	39@19	19.25	19.61	22.44
77	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	19.53	19.77	22.66
77	30	30	635666	3534.99	CP-OFDM 16 QAM	1@76	19.2	19.67	22.45
77	30	30	635666	3534.99	CP-OFDM 64 QAM	39@19	17.9	18.12	21.02
77	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	17.78	18.31	21.06
77	30	30	635666	3534.99	CP-OFDM 64 QAM	1@76	17.57	18.22	20.92
77	30	30	635666	3534.99	CP-OFDM 256 QAM	39@19	14.84	15.11	17.99
77	30	30	635666	3534.99	CP-OFDM 256 QAM	1@1	15.14	15.39	18.28
77	30	30	635666	3534.99	CP-OFDM 256 QAM	1@76	14.93	15.17	18.06
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	19.8	20.19	23.01
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	20.03	20.41	23.23
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	19.91	20.29	23.11
77	30	40	631334	3470.01	CP-OFDM 16 QAM	53@26	19.29	19.69	22.50
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	19.46	19.78	22.63
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@104	19.34	19.71	22.54
77	30	40	631334	3470.01	CP-OFDM 64 QAM	53@26	17.76	18.25	21.02
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	17.87	18.19	21.04
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@104	17.75	18.02	20.90
77	30	40	631334	3470.01	CP-OFDM 256 QAM	53@26	14.78	15.12	17.96
77	30	40	631334	3470.01	CP-OFDM 256 QAM	1@1	15.05	15.42	18.25
77	30	40	631334	3470.01	CP-OFDM 256 QAM	1@104	14.9	15.2	18.06
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	19.83	20	22.93
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	20.11	20.34	23.24
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	19.88	20.25	23.08
77	30	40	633334	3500.01	CP-OFDM 16 QAM	53@26	19.34	19.53	22.45
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	19.54	19.76	22.66
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@104	19.29	19.68	22.50
77	30	40	633334	3500.01	CP-OFDM 64 QAM	53@26	17.8	18.1	20.96
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	17.97	18.11	21.05
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@104	17.86	18.07	20.98
77	30	40	633334	3500.01	CP-OFDM 256 QAM	53@26	14.82	14.99	17.92
77	30	40	633334	3500.01	CP-OFDM 256 QAM	1@1	15.05	15.37	18.22
77	30	40	633334	3500.01	CP-OFDM 256 QAM	1@104	14.96	15.21	18.10
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	19.75	20.17	22.98

77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	19.91	20.3	23.12
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	19.76	20.29	23.04
77	30	40	635332	3529.98	CP-OFDM 16 QAM	53@26	19.29	19.67	22.49
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	19.38	19.62	22.51
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@104	19.2	19.75	22.49
77	30	40	635332	3529.98	CP-OFDM 64 QAM	53@26	17.87	18.25	21.07
77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	17.96	18.09	21.04
77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@104	17.73	18.08	20.92
77	30	40	635332	3529.98	CP-OFDM 256 QAM	53@26	14.91	15.15	18.04
77	30	40	635332	3529.98	CP-OFDM 256 QAM	1@1	15.13	15.36	18.26
77	30	40	635332	3529.98	CP-OFDM 256 QAM	1@104	14.83	15.21	18.03
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	19.57	20	22.80
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	19.81	20.15	22.99
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	19.49	19.85	22.68
77	30	50	631668	3475.02	CP-OFDM 16 QAM	67@33	19.07	19.54	22.32
77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	19.29	19.62	22.47
77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@131	18.93	19.3	22.13
77	30	50	631668	3475.02	CP-OFDM 64 QAM	67@33	17.58	18.01	20.81
77	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	17.65	18.04	20.86
77	30	50	631668	3475.02	CP-OFDM 64 QAM	1@131	17.38	17.71	20.56
77	30	50	631668	3475.02	CP-OFDM 256 QAM	67@33	14.62	14.95	17.80
77	30	50	631668	3475.02	CP-OFDM 256 QAM	1@1	14.77	15.13	17.96
77	30	50	631668	3475.02	CP-OFDM 256 QAM	1@131	14.48	14.81	17.66
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	19.64	19.73	22.70
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	19.72	20.12	22.93
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	19.38	19.65	22.53
77	30	50	633334	3500.01	CP-OFDM 16 QAM	67@33	19.13	19.44	22.30
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.32	19.51	22.43
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@131	18.86	19.33	22.11
77	30	50	633334	3500.01	CP-OFDM 64 QAM	67@33	17.68	18.11	20.91
77	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	17.53	18.13	20.85
77	30	50	633334	3500.01	CP-OFDM 64 QAM	1@131	17.83	17.81	20.83
77	30	50	633334	3500.01	CP-OFDM 256 QAM	67@33	14.73	14.84	17.80
77	30	50	633334	3500.01	CP-OFDM 256 QAM	1@1	14.95	15.22	18.10

77	30	50	633334	3500.01	CP-OFDM 256 QAM	1@131	14.7	14.89	17.81
77	30	50	635000	3525	CP-OFDM QPSK	67@33	19.57	19.95	22.77
77	30	50	635000	3525	CP-OFDM QPSK	1@1	19.85	20.02	22.95
77	30	50	635000	3525	CP-OFDM QPSK	1@131	19.39	19.88	22.65
77	30	50	635000	3525	CP-OFDM 16 QAM	67@33	19.09	19.48	22.30
77	30	50	635000	3525	CP-OFDM 16 QAM	1@1	19.38	19.48	22.44
77	30	50	635000	3525	CP-OFDM 16 QAM	1@131	18.84	19.4	22.14
77	30	50	635000	3525	CP-OFDM 64 QAM	67@33	17.7	17.97	20.85
77	30	50	635000	3525	CP-OFDM 64 QAM	1@1	17.74	17.94	20.85
77	30	50	635000	3525	CP-OFDM 64 QAM	1@131	17.38	17.77	20.59
77	30	50	635000	3525	CP-OFDM 256 QAM	67@33	14.75	14.94	17.86
77	30	50	635000	3525	CP-OFDM 256 QAM	1@1	14.86	15.09	17.99
77	30	50	635000	3525	CP-OFDM 256 QAM	1@131	14.5	14.93	17.73
77	30	60	632000	3480	CP-OFDM QPSK	81@40	19.76	20.04	22.91
77	30	60	632000	3480	CP-OFDM QPSK	1@1	19.79	20.14	22.98
77	30	60	632000	3480	CP-OFDM QPSK	1@160	19.59	19.85	22.73
77	30	60	632000	3480	CP-OFDM 16 QAM	81@40	19.23	19.46	22.36
77	30	60	632000	3480	CP-OFDM 16 QAM	1@1	19.4	19.61	22.52
77	30	60	632000	3480	CP-OFDM 16 QAM	1@160	19	19.36	22.19
77	30	60	632000	3480	CP-OFDM 64 QAM	81@40	17.76	18.01	20.90
77	30	60	632000	3480	CP-OFDM 64 QAM	1@1	17.68	18.07	20.89
77	30	60	632000	3480	CP-OFDM 64 QAM	1@160	17.42	17.81	20.63
77	30	60	632000	3480	CP-OFDM 256 QAM	81@40	14.69	14.92	17.82
77	30	60	632000	3480	CP-OFDM 256 QAM	1@1	14.81	15.15	17.99
77	30	60	632000	3480	CP-OFDM 256 QAM	1@160	14.65	14.91	17.79
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	19.71	19.88	22.81
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	19.96	20.3	23.14
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	19.57	20.04	22.82
77	30	60	633334	3500.01	CP-OFDM 16 QAM	81@40	19.21	19.4	22.32
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	19.44	19.62	22.54
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@160	18.99	19.39	22.20
77	30	60	633334	3500.01	CP-OFDM 64 QAM	81@40	17.75	17.9	20.84
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	17.54	18.19	20.89
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@160	17.31	17.86	20.60

77	30	60	633334	3500.01	CP-OFDM 256 QAM	81@40	14.73	14.81	17.78
77	30	60	633334	3500.01	CP-OFDM 256 QAM	1@1	14.88	15.23	18.07
77	30	60	633334	3500.01	CP-OFDM 256 QAM	1@160	14.69	14.99	17.85
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	19.65	19.98	22.83
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	19.95	20.23	23.10
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	19.5	20	22.77
77	30	60	634666	3519.99	CP-OFDM 16 QAM	81@40	19.13	19.45	22.30
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	19.5	19.53	22.53
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@160	18.92	19.33	22.14
77	30	60	634666	3519.99	CP-OFDM 64 QAM	81@40	17.78	17.99	20.90
77	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	17.54	18.08	20.83
77	30	60	634666	3519.99	CP-OFDM 64 QAM	1@160	17.22	17.89	20.58
77	30	60	634666	3519.99	CP-OFDM 256 QAM	81@40	14.73	14.92	17.84
77	30	60	634666	3519.99	CP-OFDM 256 QAM	1@1	14.88	15.12	18.01
77	30	60	634666	3519.99	CP-OFDM 256 QAM	1@160	14.6	14.97	17.80
77	30	70	632334	3485.01	CP-OFDM QPSK	95@47	19.5	19.77	22.65
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	19.69	20.06	22.89
77	30	70	632334	3485.01	CP-OFDM QPSK	1@187	19.26	19.71	22.50
77	30	70	632334	3485.01	CP-OFDM 16 QAM	95@47	18.97	19.23	22.11
77	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	19.16	19.45	22.32
77	30	70	632334	3485.01	CP-OFDM 16 QAM	1@187	18.68	19.15	21.93
77	30	70	632334	3485.01	CP-OFDM 64 QAM	95@47	17.48	17.78	20.64
77	30	70	632334	3485.01	CP-OFDM 64 QAM	1@1	17.31	18	20.68
77	30	70	632334	3485.01	CP-OFDM 64 QAM	1@187	17.09	17.57	20.35
77	30	70	632334	3485.01	CP-OFDM 256 QAM	95@47	14.47	14.76	17.63
77	30	70	632334	3485.01	CP-OFDM 256 QAM	1@1	14.66	15	17.84
77	30	70	632334	3485.01	CP-OFDM 256 QAM	1@187	14.45	14.69	17.58
77	30	70	633334	3500.01	CP-OFDM QPSK	95@47	19.52	19.71	22.63
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	19.71	20.02	22.88
77	30	70	633334	3500.01	CP-OFDM QPSK	1@187	19.33	19.83	22.60
77	30	70	633334	3500.01	CP-OFDM 16 QAM	95@47	18.98	19.22	22.11
77	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	19.3	19.52	22.42
77	30	70	633334	3500.01	CP-OFDM 16 QAM	1@187	18.67	19.26	21.99
77	30	70	633334	3500.01	CP-OFDM 64 QAM	95@47	17.54	17.75	20.66

77	30	70	633334	3500.01	CP-OFDM 64 QAM	1@1	17.61	17.99	20.81
77	30	70	633334	3500.01	CP-OFDM 64 QAM	1@187	17.23	17.58	20.42
77	30	70	633334	3500.01	CP-OFDM 256 QAM	95@47	14.53	14.7	17.63
77	30	70	633334	3500.01	CP-OFDM 256 QAM	1@1	14.8	15.05	17.94
77	30	70	633334	3500.01	CP-OFDM 256 QAM	1@187	14.58	14.75	17.68
77	30	70	634332	3514.98	CP-OFDM QPSK	95@47	19.46	19.75	22.62
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	19.73	19.97	22.86
77	30	70	634332	3514.98	CP-OFDM QPSK	1@187	19.25	19.8	22.54
77	30	70	634332	3514.98	CP-OFDM 16 QAM	95@47	18.98	19.28	22.14
77	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	19.29	19.4	22.36
77	30	70	634332	3514.98	CP-OFDM 16 QAM	1@187	18.63	19.25	21.96
77	30	70	634332	3514.98	CP-OFDM 64 QAM	95@47	17.6	17.77	20.70
77	30	70	634332	3514.98	CP-OFDM 64 QAM	1@1	17.62	17.85	20.75
77	30	70	634332	3514.98	CP-OFDM 64 QAM	1@187	17.19	17.64	20.43
77	30	70	634332	3514.98	CP-OFDM 256 QAM	95@47	14.61	14.85	17.74
77	30	70	634332	3514.98	CP-OFDM 256 QAM	1@1	14.8	15.09	17.96
77	30	70	634332	3514.98	CP-OFDM 256 QAM	1@187	14.39	14.8	17.61
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	19.5	19.77	22.65
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	19.65	20.01	22.84
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	19.28	19.89	22.61
77	30	80	632668	3490.02	CP-OFDM 16 QAM	109@54	19	19.3	22.16
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	19.15	19.45	22.31
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@215	18.76	19.26	22.03
77	30	80	632668	3490.02	CP-OFDM 64 QAM	109@54	17.51	17.8	20.67
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	17.56	17.84	20.71
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@215	17.33	17.6	20.48
77	30	80	632668	3490.02	CP-OFDM 256 QAM	109@54	14.47	14.72	17.61
77	30	80	632668	3490.02	CP-OFDM 256 QAM	1@1	14.68	14.98	17.84
77	30	80	632668	3490.02	CP-OFDM 256 QAM	1@215	14.4	14.87	17.65
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	19.51	19.65	22.59
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	19.74	19.99	22.88
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	19.27	19.82	22.56
77	30	80	633334	3500.01	CP-OFDM 16 QAM	109@54	19.03	19.27	22.16
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	19.21	19.43	22.33

77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@215	18.77	19.23	22.02
77	30	80	633334	3500.01	CP-OFDM 64 QAM	109@54	17.55	17.72	20.65
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	17.62	17.87	20.76
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@215	17.38	17.61	20.51
77	30	80	633334	3500.01	CP-OFDM 256 QAM	109@54	14.53	14.69	17.62
77	30	80	633334	3500.01	CP-OFDM 256 QAM	1@1	14.75	15.05	17.91
77	30	80	633334	3500.01	CP-OFDM 256 QAM	1@215	14.45	14.83	17.65
77	30	80	634000	3510	CP-OFDM QPSK	109@54	19.43	19.84	22.65
77	30	80	634000	3510	CP-OFDM QPSK	1@1	19.72	20.07	22.91
77	30	80	634000	3510	CP-OFDM QPSK	1@215	19.21	19.79	22.52
77	30	80	634000	3510	CP-OFDM 16 QAM	109@54	18.96	19.37	22.18
77	30	80	634000	3510	CP-OFDM 16 QAM	1@1	19.18	19.5	22.35
77	30	80	634000	3510	CP-OFDM 16 QAM	1@215	18.62	19.21	21.94
77	30	80	634000	3510	CP-OFDM 64 QAM	109@54	17.58	17.85	20.73
77	30	80	634000	3510	CP-OFDM 64 QAM	1@1	17.59	17.97	20.79
77	30	80	634000	3510	CP-OFDM 64 QAM	1@215	17.22	17.66	20.46
77	30	80	634000	3510	CP-OFDM 256 QAM	109@54	14.53	14.78	17.67
77	30	80	634000	3510	CP-OFDM 256 QAM	1@1	14.71	15.13	17.94
77	30	80	634000	3510	CP-OFDM 256 QAM	1@215	14.37	14.76	17.58
77	30	90	633000	3495	CP-OFDM QPSK	123@61	19.5	19.71	22.62
77	30	90	633000	3495	CP-OFDM QPSK	1@1	19.62	19.95	22.80
77	30	90	633000	3495	CP-OFDM QPSK	1@243	19.31	19.78	22.56
77	30	90	633000	3495	CP-OFDM 16 QAM	123@61	18.98	19.23	22.12
77	30	90	633000	3495	CP-OFDM 16 QAM	1@1	19.06	19.43	22.26
77	30	90	633000	3495	CP-OFDM 16 QAM	1@243	18.64	19.19	21.93
77	30	90	633000	3495	CP-OFDM 64 QAM	123@61	17.51	17.7	20.62
77	30	90	633000	3495	CP-OFDM 64 QAM	1@1	17.53	17.85	20.70
77	30	90	633000	3495	CP-OFDM 64 QAM	1@243	17.19	17.59	20.40
77	30	90	633000	3495	CP-OFDM 256 QAM	123@61	14.49	14.75	17.63
77	30	90	633000	3495	CP-OFDM 256 QAM	1@1	14.6	15.05	17.84
77	30	90	633000	3495	CP-OFDM 256 QAM	1@243	14.41	14.81	17.62
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	19.55	19.72	22.65
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	19.69	20.03	22.87
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	19.33	19.81	22.59

77	30	90	633334	3500.01	CP-OFDM 16 QAM	123@61	18.92	19.28	22.11
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	19.14	19.51	22.34
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@243	18.7	19.22	21.98
77	30	90	633334	3500.01	CP-OFDM 64 QAM	123@61	17.57	17.74	20.67
77	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	17.6	17.97	20.80
77	30	90	633334	3500.01	CP-OFDM 64 QAM	1@243	17.29	17.65	20.48
77	30	90	633334	3500.01	CP-OFDM 256 QAM	123@61	14.58	14.71	17.66
77	30	90	633334	3500.01	CP-OFDM 256 QAM	1@1	14.73	15.09	17.92
77	30	90	633334	3500.01	CP-OFDM 256 QAM	1@243	14.45	14.84	17.66
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	19.47	19.81	22.65
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	19.73	20.06	22.91
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	19.33	19.89	22.63
77	30	90	633666	3504.99	CP-OFDM 16 QAM	123@61	19.05	19.31	22.19
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	19.18	19.42	22.31
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@243	18.68	19.19	21.95
77	30	90	633666	3504.99	CP-OFDM 64 QAM	123@61	17.6	17.78	20.70
77	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	17.65	17.92	20.80
77	30	90	633666	3504.99	CP-OFDM 64 QAM	1@243	17.32	17.62	20.48
77	30	90	633666	3504.99	CP-OFDM 256 QAM	123@61	14.57	14.79	17.69
77	30	90	633666	3504.99	CP-OFDM 256 QAM	1@1	14.7	15.18	17.96
77	30	90	633666	3504.99	CP-OFDM 256 QAM	1@243	14.5	14.9	17.71
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	19.48	19.75	22.63
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	19.71	19.98	22.86
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	19.29	19.86	22.59
77	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	18.95	19.28	22.13
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	19.11	19.57	22.36
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	18.64	19.17	21.92
77	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	17.58	17.81	20.71
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	17.6	17.89	20.76
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	17.33	17.58	20.47
77	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	14.56	14.71	17.65
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	14.82	15.05	17.95
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	14.52	14.83	17.69

Software Version: 21.02.111001

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Conducted Power and EIRP

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	25.75	23.85	0.2427
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	25.81	23.91	0.2460
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.79	23.89	0.2449
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26	24.1	0.2570
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.94	24.04	0.2535
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	26.04	24.14	0.2594
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.97	23.07	0.2028
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.87	22.97	0.1982
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.92	23.02	0.2004
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.49	21.59	0.1442
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.24	21.34	0.1361
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.36	21.46	0.1400
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.42	19.52	0.0895
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.36	19.46	0.0883
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.29	19.39	0.0869
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	24.45	22.55	0.1799
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.49	22.59	0.1816
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.58	22.68	0.1854
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.78	23.88	0.2443
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.79	23.89	0.2449
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.67	23.77	0.2382
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.95	24.05	0.2541
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.97	24.07	0.2553
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.92	24.02	0.2523
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.97	23.07	0.2028
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.94	23.04	0.2014
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.88	22.98	0.1986
78	30	20	633334	3500.01	DFT-s-OFDM	25@12	23.47	21.57	0.1435

					64 QAM				
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.25	21.35	0.1365
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.19	21.29	0.1346
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.39	19.49	0.0889
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.28	19.38	0.0867
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.3	19.4	0.0871
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.44	22.54	0.1795
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.44	22.54	0.1795
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.52	22.62	0.1828
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.8	23.9	0.2455
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.83	23.93	0.2472
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.74	23.84	0.2421
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	26.01	24.11	0.2576
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.07	24.17	0.2612
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	26.01	24.11	0.2576
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	25.04	23.14	0.2061
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.86	22.96	0.1977
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.84	22.94	0.1968
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.53	21.63	0.1455
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.25	21.35	0.1365
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.4	21.5	0.1413
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.5	19.6	0.0912
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.5	19.6	0.0912
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.45	19.55	0.0902
78	30	20	636000	3540	CP-OFDM QPSK	25@12	24.53	22.63	0.1832
78	30	20	636000	3540	CP-OFDM QPSK	1@1	24.54	22.64	0.1837
78	30	20	636000	3540	CP-OFDM QPSK	1@49	24.61	22.71	0.1866
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	25.74	23.84	0.2421
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	25.81	23.91	0.2460
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	25.65	23.75	0.2371
78	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.95	24.05	0.2541
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.96	24.06	0.2547
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.97	24.07	0.2553
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.94	23.04	0.2014

78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.91	23.01	0.2000
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.83	22.93	0.1963
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	23.45	21.55	0.1429
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	23.4	21.5	0.1413
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	23.16	21.26	0.1337
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	21.41	19.51	0.0893
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	21.38	19.48	0.0887
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	21.32	19.42	0.0875
78	30	30	631000	3465	CP-OFDM QPSK	39@19	24.46	22.56	0.1803
78	30	30	631000	3465	CP-OFDM QPSK	1@1	24.53	22.63	0.1832
78	30	30	631000	3465	CP-OFDM QPSK	1@76	24.46	22.56	0.1803
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	25.72	23.82	0.2410
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.77	23.87	0.2438
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	25.59	23.69	0.2339
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.97	24.07	0.2553
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.04	24.14	0.2594
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	25.93	24.03	0.2529
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.91	23.01	0.2000
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.91	23.01	0.2000
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	24.79	22.89	0.1945
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.43	21.53	0.1422
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.5	21.6	0.1445
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	23.36	21.46	0.1400
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.45	19.55	0.0902
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.42	19.52	0.0895
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	21.22	19.32	0.0855
78	30	30	633334	3500.01	CP-OFDM QPSK	39@19	24.45	22.55	0.1799
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	24.57	22.67	0.1849
78	30	30	633334	3500.01	CP-OFDM QPSK	1@76	24.44	22.54	0.1795
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	25.82	23.92	0.2466
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	25.85	23.95	0.2483
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	25.74	23.84	0.2421
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	26	24.1	0.2570
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.08	24.18	0.2618

78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.98	24.08	0.2559
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	25.01	23.11	0.2046
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.99	23.09	0.2037
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	24.84	22.94	0.1968
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	23.5	21.6	0.1445
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	23.7	21.8	0.1514
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	23.6	21.7	0.1479
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	21.47	19.57	0.0906
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	21.41	19.51	0.0893
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	21.32	19.42	0.0875
78	30	30	635666	3534.99	CP-OFDM QPSK	39@19	24.5	22.6	0.1820
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	24.61	22.71	0.1866
78	30	30	635666	3534.99	CP-OFDM QPSK	1@76	24.51	22.61	0.1824
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	25.88	23.98	0.2500
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.87	23.97	0.2495
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.68	23.78	0.2388
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.98	24.08	0.2559
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.98	24.08	0.2559
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	26.02	24.12	0.2582
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.97	23.07	0.2028
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.08	23.18	0.2080
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	25.03	23.13	0.2056
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.5	21.6	0.1445
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.34	21.44	0.1393
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	23.19	21.29	0.1346
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.47	19.57	0.0906
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	21.46	19.56	0.0904
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	21.26	19.36	0.0863
78	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24.49	22.59	0.1816
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	24.53	22.63	0.1832
78	30	40	631334	3470.01	CP-OFDM QPSK	1@104	24.51	22.61	0.1824
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.7	23.8	0.2399
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.92	24.02	0.2523
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.63	23.73	0.2360

78	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.96	24.06	0.2547
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.12	24.22	0.2642
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.93	24.03	0.2529
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.95	23.05	0.2018
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.08	23.18	0.2080
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.88	22.98	0.1986
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.45	21.55	0.1429
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.39	21.49	0.1409
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	23.25	21.35	0.1365
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.43	19.53	0.0897
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.56	19.66	0.0925
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	21.21	19.31	0.0853
78	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.45	22.55	0.1799
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	24.6	22.7	0.1862
78	30	40	633334	3500.01	CP-OFDM QPSK	1@104	24.5	22.6	0.1820
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	25.77	23.87	0.2438
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.78	23.88	0.2443
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.75	23.85	0.2427
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	26.05	24.15	0.2600
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.13	24.23	0.2649
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	26.03	24.13	0.2588
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.99	23.09	0.2037
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.11	23.21	0.2094
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.9	23	0.1995
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.46	21.56	0.1432
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	23.26	21.36	0.1368
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	23.34	21.44	0.1393
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.5	19.6	0.0912
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	21.36	19.46	0.0883
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	21.27	19.37	0.0865
78	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.48	22.58	0.1811
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	24.59	22.69	0.1858
78	30	40	635332	3529.98	CP-OFDM QPSK	1@104	24.53	22.63	0.1832
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	25.68	23.78	0.2388

78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	25.54	23.64	0.2312
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	25.46	23.56	0.2270
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.85	23.95	0.2483
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.68	23.78	0.2388
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.72	23.82	0.2410
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	24.82	22.92	0.1959
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.59	22.69	0.1858
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.68	22.78	0.1897
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.31	21.41	0.1384
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	23.05	21.15	0.1303
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	22.99	21.09	0.1285
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	21.26	19.36	0.0863
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	21.08	19.18	0.0828
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	21	19.1	0.0813
78	30	50	631668	3475.02	CP-OFDM QPSK	67@33	24.33	22.43	0.1750
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	24.16	22.26	0.1683
78	30	50	631668	3475.02	CP-OFDM QPSK	1@131	24.14	22.24	0.1675
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	25.63	23.73	0.2360
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.61	23.71	0.2350
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.53	23.63	0.2307
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.83	23.93	0.2472
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.86	23.96	0.2489
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.67	23.77	0.2382
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.8	22.9	0.1950
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.75	22.85	0.1928
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.65	22.75	0.1884
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.27	21.37	0.1371
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.06	21.16	0.1306
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	22.88	20.98	0.1253
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	21.25	19.35	0.0861
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.24	19.34	0.0859
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	20.99	19.09	0.0811
78	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.31	22.41	0.1742
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	24.36	22.46	0.1762

78	30	50	633334	3500.01	CP-OFDM QPSK	1@131	24.19	22.29	0.1694
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	25.69	23.79	0.2393
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.56	23.66	0.2323
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	25.5	23.6	0.2291
78	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.86	23.96	0.2489
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.8	23.9	0.2455
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.69	23.79	0.2393
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	24.82	22.92	0.1959
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.73	22.83	0.1919
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	24.66	22.76	0.1888
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	23.31	21.41	0.1384
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23	21.1	0.1288
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	23.17	21.27	0.1340
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	21.25	19.35	0.0861
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	21.05	19.15	0.0822
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	20.98	19.08	0.0809
78	30	50	635000	3525	CP-OFDM QPSK	67@33	24.3	22.4	0.1738
78	30	50	635000	3525	CP-OFDM QPSK	1@1	24.29	22.39	0.1734
78	30	50	635000	3525	CP-OFDM QPSK	1@131	24.23	22.33	0.1710
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	25.66	23.76	0.2377
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	25.64	23.74	0.2366
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	25.43	23.53	0.2254
78	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.86	23.96	0.2489
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.85	23.95	0.2483
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.68	23.78	0.2388
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.86	22.96	0.1977
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.74	22.84	0.1923
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.57	22.67	0.1849
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.31	21.41	0.1384
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	23.1	21.2	0.1318
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	22.95	21.05	0.1274
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.32	19.42	0.0875
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	21.12	19.22	0.0836
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	21.07	19.17	0.0826

78	30	60	632000	3480	CP-OFDM QPSK	81@40	24.34	22.44	0.1754
78	30	60	632000	3480	CP-OFDM QPSK	1@1	24.3	22.4	0.1738
78	30	60	632000	3480	CP-OFDM QPSK	1@160	24.09	22.19	0.1656
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	25.62	23.72	0.2355
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.7	23.8	0.2399
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.46	23.56	0.2270
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.82	23.92	0.2466
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.9	24	0.2512
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.65	23.75	0.2371
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.76	22.86	0.1932
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.79	22.89	0.1945
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.53	22.63	0.1832
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.25	21.35	0.1365
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.12	21.22	0.1324
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	23.01	21.11	0.1291
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.28	19.38	0.0867
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.16	19.26	0.0843
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	20.91	19.01	0.0796
78	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.27	22.37	0.1726
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	24.39	22.49	0.1774
78	30	60	633334	3500.01	CP-OFDM QPSK	1@160	24.25	22.35	0.1718
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	25.66	23.76	0.2377
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	25.71	23.81	0.2404
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.4	23.5	0.2239
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.84	23.94	0.2477
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.92	24.02	0.2523
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.66	23.76	0.2377
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	24.81	22.91	0.1954
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.82	22.92	0.1959
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.63	22.73	0.1875
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.28	21.38	0.1374
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	23.16	21.26	0.1337
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	23.02	21.12	0.1294
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.29	19.39	0.0869

78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	21.29	19.39	0.0869
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	20.95	19.05	0.0804
78	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.31	22.41	0.1742
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.28	22.38	0.1730
78	30	60	634666	3519.99	CP-OFDM QPSK	1@160	24.24	22.34	0.1714
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	25.42	23.52	0.2249
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	25.41	23.51	0.2244
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	25.23	23.33	0.2153
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.36	23.46	0.2218
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.43	23.53	0.2254
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.11	23.21	0.2094
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.34	22.44	0.1754
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.38	22.48	0.1770
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.01	22.11	0.1626
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	22.87	20.97	0.1250
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	22.89	20.99	0.1256
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	22.64	20.74	0.1186
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	20.82	18.92	0.0780
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	20.81	18.91	0.0778
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	20.52	18.62	0.0728
78	30	70	632334	3485.01	CP-OFDM QPSK	95@47	23.87	21.97	0.1574
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	23.97	22.07	0.1611
78	30	70	632334	3485.01	CP-OFDM QPSK	1@187	23.7	21.8	0.1514
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	25.49	23.59	0.2286
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.45	23.55	0.2265
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	25.31	23.41	0.2193
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.38	23.48	0.2228
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.5	23.6	0.2291
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.13	23.23	0.2104
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.36	22.46	0.1762
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.45	22.55	0.1799
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	24.05	22.15	0.1641
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	22.87	20.97	0.1250
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.88	20.98	0.1253

78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	22.43	20.53	0.1130
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	20.86	18.96	0.0787
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.91	19.01	0.0796
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	20.5	18.6	0.0724
78	30	70	633334	3500.01	CP-OFDM QPSK	95@47	23.86	21.96	0.1570
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	24.01	22.11	0.1626
78	30	70	633334	3500.01	CP-OFDM QPSK	1@187	23.67	21.77	0.1503
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	25.52	23.62	0.2301
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	25.51	23.61	0.2296
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	25.29	23.39	0.2183
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	25.42	23.52	0.2249
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.53	23.63	0.2307
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.17	23.27	0.2123
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	24.43	22.53	0.1791
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.51	22.61	0.1824
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	24.15	22.25	0.1679
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	22.94	21.04	0.1271
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	22.89	20.99	0.1256
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	22.48	20.58	0.1143
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	20.87	18.97	0.0789
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	20.89	18.99	0.0793
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	20.6	18.7	0.0741
78	30	70	634332	3514.98	CP-OFDM QPSK	95@47	23.95	22.05	0.1603
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	24.05	22.15	0.1641
78	30	70	634332	3514.98	CP-OFDM QPSK	1@187	23.83	21.93	0.1560
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	25.48	23.58	0.2280
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	25.48	23.58	0.2280
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.31	23.41	0.2193
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.69	23.79	0.2393
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.67	23.77	0.2382
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.54	23.64	0.2312
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.67	22.77	0.1892
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.73	22.83	0.1919
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.54	22.64	0.1837

78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.17	21.27	0.1340
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	22.99	21.09	0.1285
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.89	20.99	0.1256
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.15	19.25	0.0841
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	21.06	19.16	0.0824
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.81	18.91	0.0778
78	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.13	22.23	0.1671
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	24.2	22.3	0.1698
78	30	80	632668	3490.02	CP-OFDM QPSK	1@215	24.05	22.15	0.1641
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	25.5	23.6	0.2291
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.5	23.6	0.2291
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.33	23.43	0.2203
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.67	23.77	0.2382
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.65	23.75	0.2371
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.53	23.63	0.2307
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.63	22.73	0.1875
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.59	22.69	0.1858
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.36	22.46	0.1762
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.15	21.25	0.1334
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.9	21	0.1259
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.89	20.99	0.1256
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.13	19.23	0.0838
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.14	19.24	0.0839
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	20.81	18.91	0.0778
78	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.16	22.26	0.1683
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	24.23	22.33	0.1710
78	30	80	633334	3500.01	CP-OFDM QPSK	1@215	24.08	22.18	0.1652
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	25.52	23.62	0.2301
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	25.56	23.66	0.2323
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.39	23.49	0.2234
78	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.71	23.81	0.2404
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.76	23.86	0.2432
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.58	23.68	0.2333
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.7	22.8	0.1905

78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.85	22.95	0.1972
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	24.38	22.48	0.1770
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.18	21.28	0.1343
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	22.96	21.06	0.1276
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	22.74	20.84	0.1213
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.18	19.28	0.0847
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	21.07	19.17	0.0826
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	20.83	18.93	0.0782
78	30	80	634000	3510	CP-OFDM QPSK	109@54	24.23	22.33	0.1710
78	30	80	634000	3510	CP-OFDM QPSK	1@1	24.26	22.36	0.1722
78	30	80	634000	3510	CP-OFDM QPSK	1@215	24.07	22.17	0.1648
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	25.5	23.6	0.2291
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	25.44	23.54	0.2259
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	25.32	23.42	0.2198
78	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.66	23.76	0.2377
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.61	23.71	0.2350
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.51	23.61	0.2296
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.65	22.75	0.1884
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.59	22.69	0.1858
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	24.5	22.6	0.1820
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	23.15	21.25	0.1334
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	22.91	21.01	0.1262
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	23.06	21.16	0.1306
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	21.18	19.28	0.0847
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	21.04	19.14	0.0820
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	20.97	19.07	0.0807
78	30	90	633000	3495	CP-OFDM QPSK	123@61	24.12	22.22	0.1667
78	30	90	633000	3495	CP-OFDM QPSK	1@1	24.17	22.27	0.1687
78	30	90	633000	3495	CP-OFDM QPSK	1@243	24.05	22.15	0.1641
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	25.51	23.61	0.2296
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.5	23.6	0.2291
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	25.35	23.45	0.2213
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.67	23.77	0.2382
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.66	23.76	0.2377

78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.6	23.7	0.2344
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.69	22.79	0.1901
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.61	22.71	0.1866
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	24.49	22.59	0.1816
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.16	21.26	0.1337
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.94	21.04	0.1271
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.85	20.95	0.1245
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.17	19.27	0.0845
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21	19.1	0.0813
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	20.95	19.05	0.0804
78	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.23	22.33	0.1710
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	24.18	22.28	0.1690
78	30	90	633334	3500.01	CP-OFDM QPSK	1@243	24.08	22.18	0.1652
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	25.5	23.6	0.2291
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	25.55	23.65	0.2317
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	25.3	23.4	0.2188
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.71	23.81	0.2404
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.78	23.88	0.2443
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.64	23.74	0.2366
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.72	22.82	0.1914
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.68	22.78	0.1897
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	24.51	22.61	0.1824
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.2	21.3	0.1349
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	23.28	21.38	0.1374
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	23.14	21.24	0.1330
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.18	19.28	0.0847
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	21.01	19.11	0.0815
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	20.85	18.95	0.0785
78	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.23	22.33	0.1710
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	24.26	22.36	0.1722
78	30	90	633666	3504.99	CP-OFDM QPSK	1@243	24.08	22.18	0.1652
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.53	23.63	0.2307
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.47	23.57	0.2275
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.27	23.37	0.2173

78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.69	23.79	0.2393
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.61	23.71	0.2350
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.61	23.71	0.2350
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.65	22.75	0.1884
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.6	22.7	0.1862
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.49	22.59	0.1816
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.19	21.29	0.1346
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.04	21.14	0.1300
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.94	21.04	0.1271
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.13	19.23	0.0838
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.98	19.08	0.0809
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.88	18.98	0.0791
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.14	22.24	0.1675
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.11	22.21	0.1663
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.07	22.17	0.1648

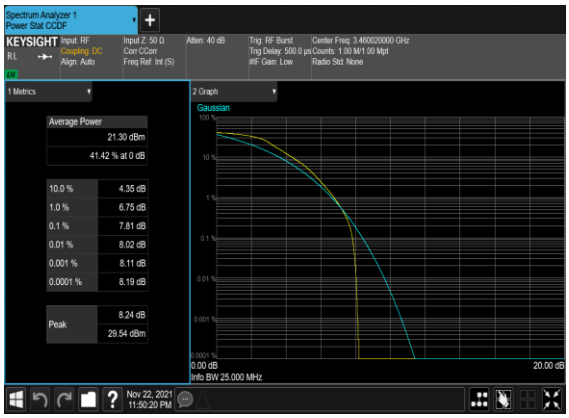
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00391	**PASS**	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00352	**PASS**	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00606	**PASS**	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00324	**PASS**	-30℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00429	**PASS**	-20℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00532	**PASS**	-10℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00346	**PASS**	0℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0034	**PASS**	10℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00235	**PASS**	20℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00508	**PASS**	30℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00409	**PASS**	40℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.0028	**PASS**	50℃

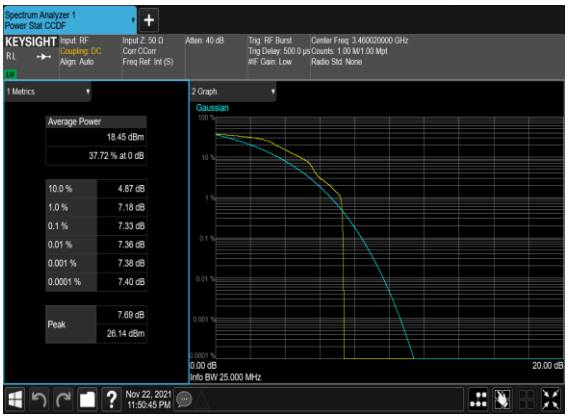
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	7.81	13	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	7.33	13	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.84	13	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	7.06	13	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	7.82	13	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	6.93	13	**PASS**

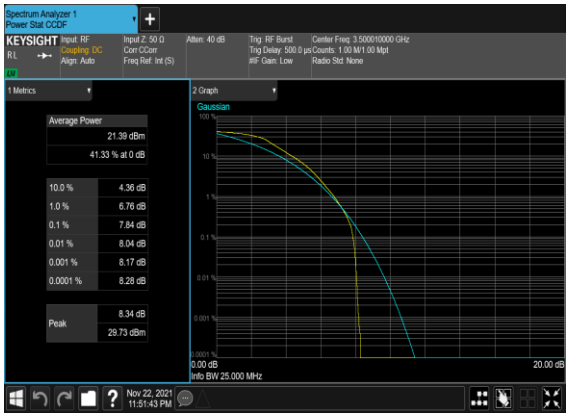
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



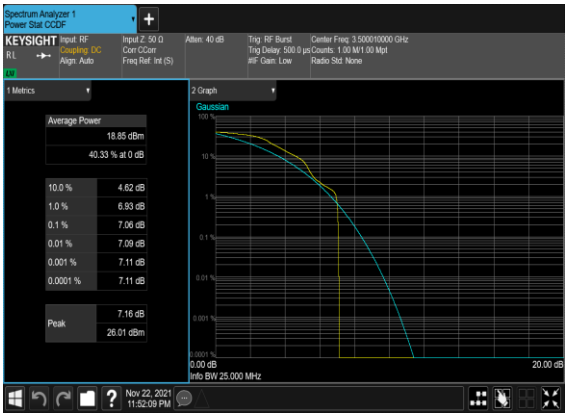
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

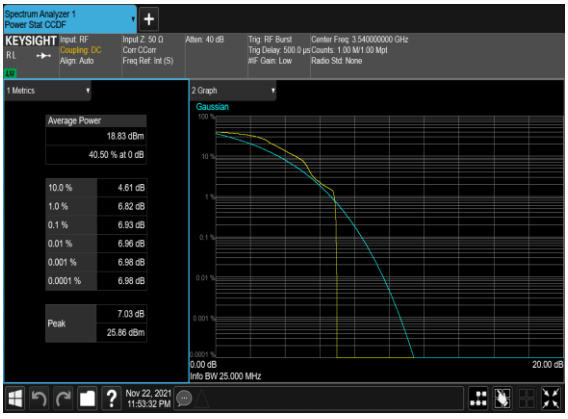


N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



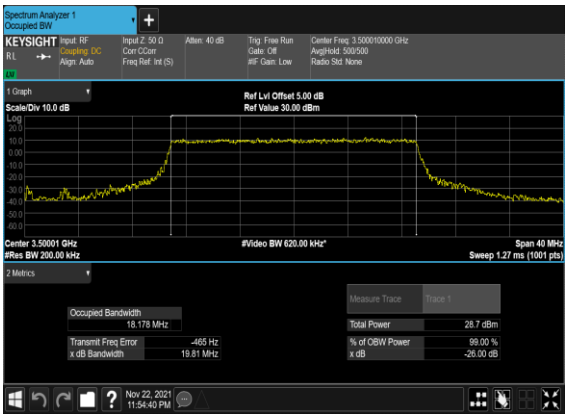
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.861	19.13
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.178	19.81
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.214	19.51
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.213	19.58
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.217	19.8
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.732	28.19
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.814	29.42
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.797	29.56
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.884	29.16
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.824	29.16
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.774	37.64
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.803	39.57
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.85	39.66
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.823	39.56
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.859	39.62
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.754	47.95
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.569	49.87
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.386	49.39
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.503	49.34
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.424	49.35
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.783	60.1
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.78	60.25
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.821	59.87
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.816	60.1

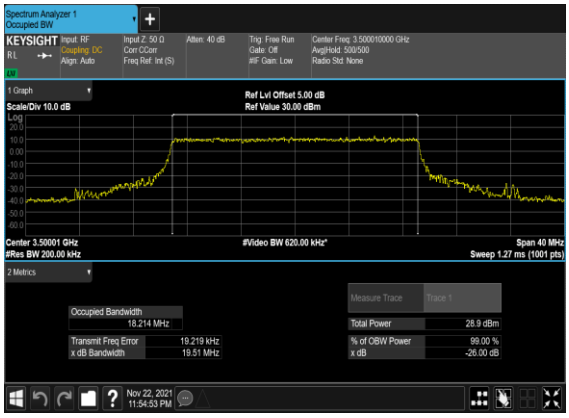
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.857	60.08
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.275	66.53
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.643	69.88
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.507	69.79
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.507	70.14
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.514	69.56
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	77.156	79.72
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.553	79.91
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.539	80.08
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.555	80.2
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.459	80.24
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.774	88.67
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.471	90.3
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.364	90.62
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.303	90.39
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.586	90.34
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.524	99.53
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.406	100.6
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.403	100.6
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.467	100.6
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.564	100.5

N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

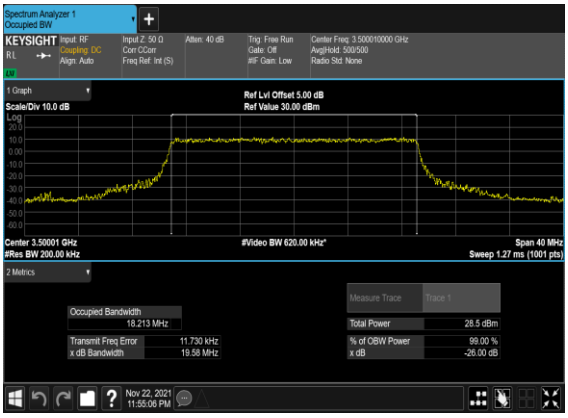
N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



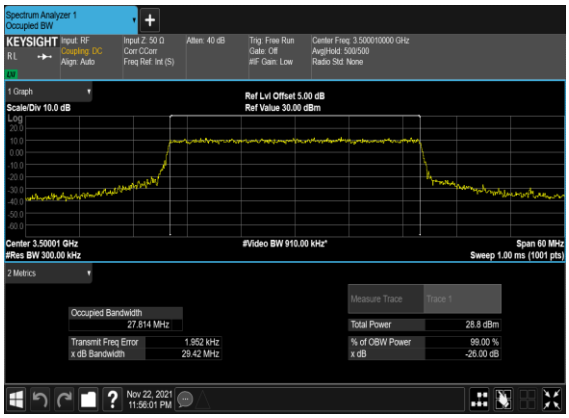
N78(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



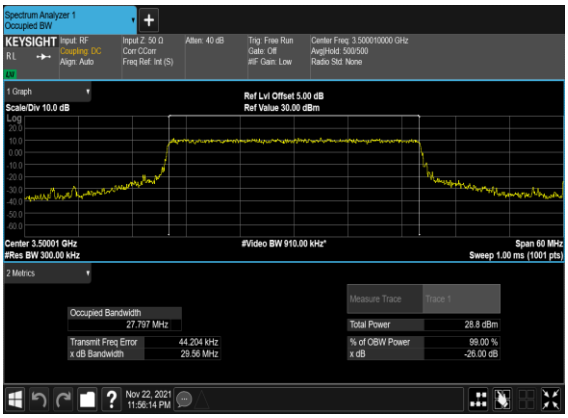
N78(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N78(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

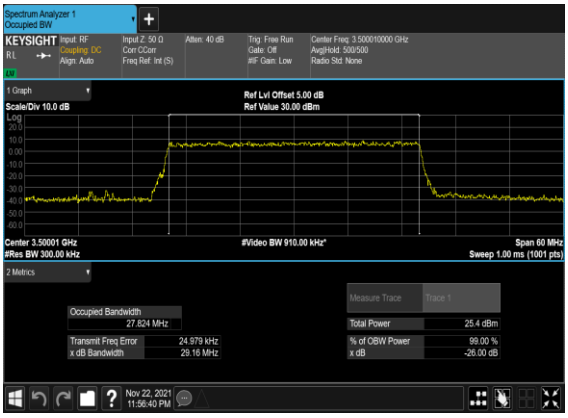


N78(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



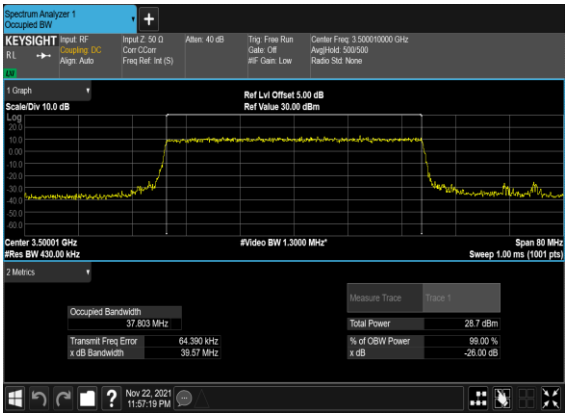
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

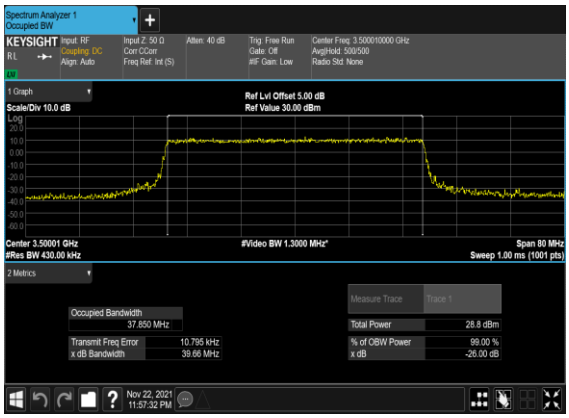


N78(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

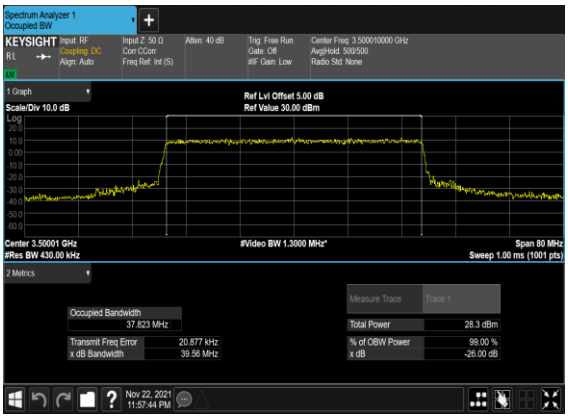
N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



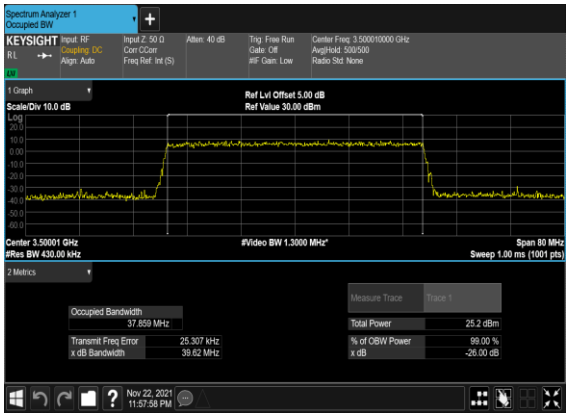
N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



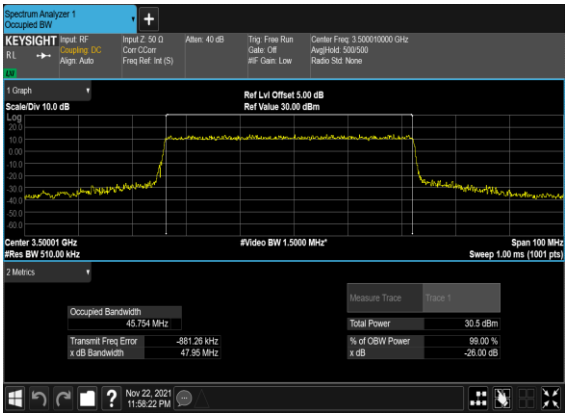
N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



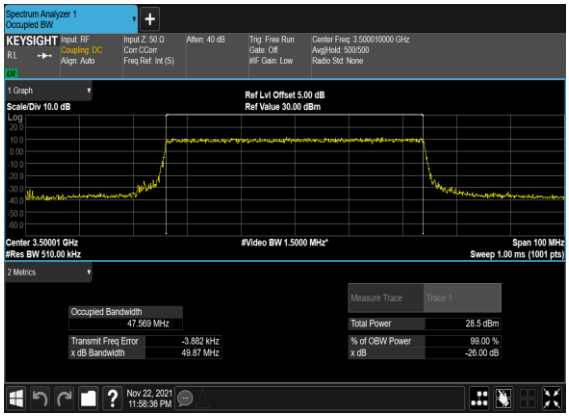
N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

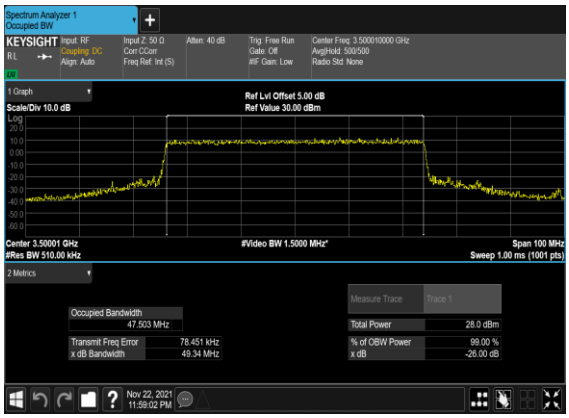


N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

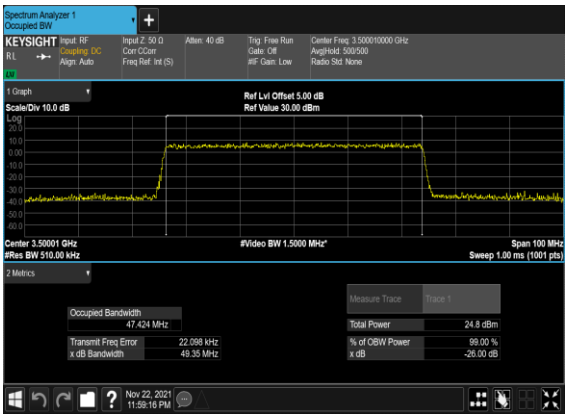


N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

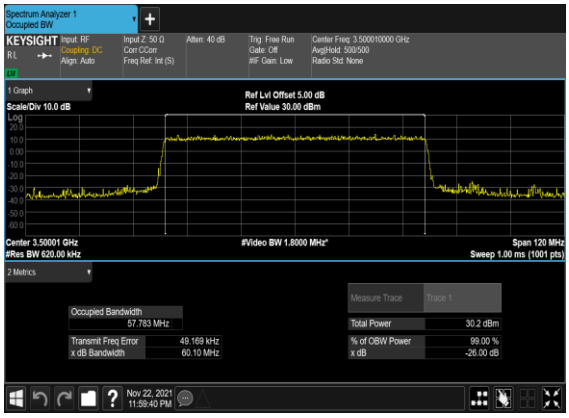
N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



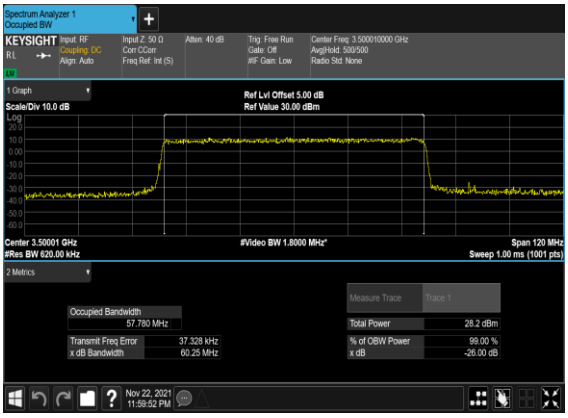
N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



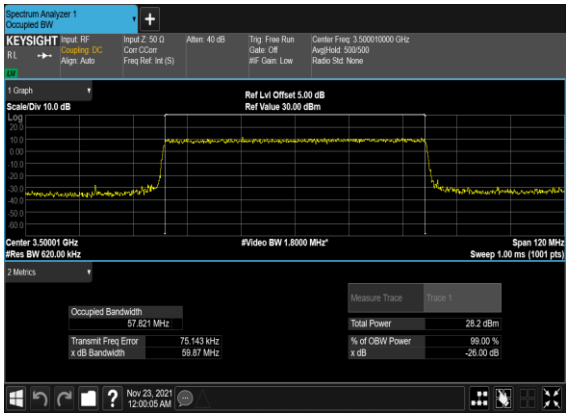
N78(60M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

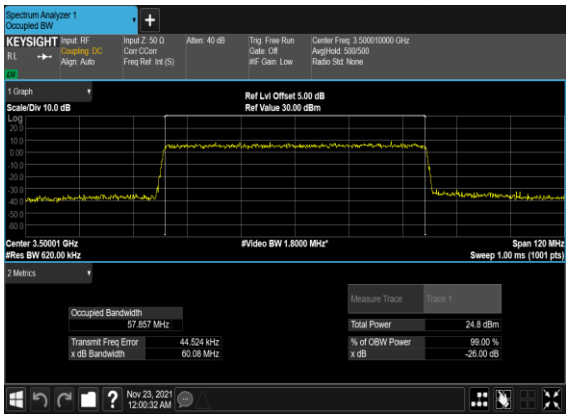


N78(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

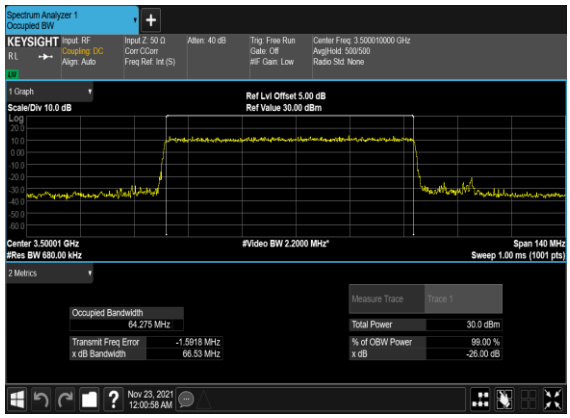


N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

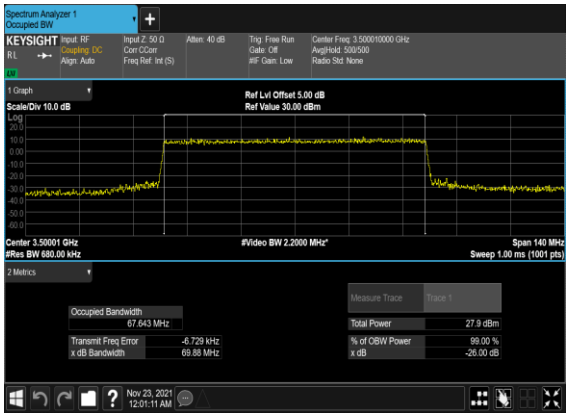
N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



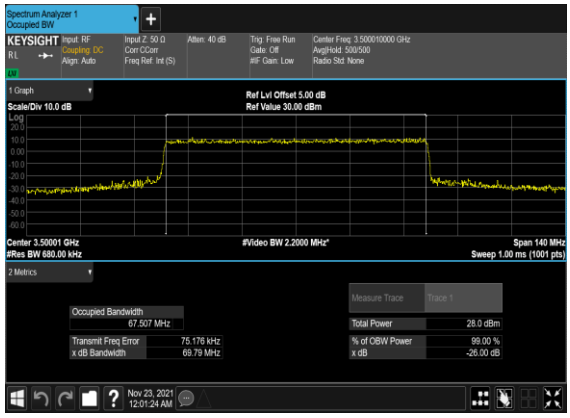
N78(70M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

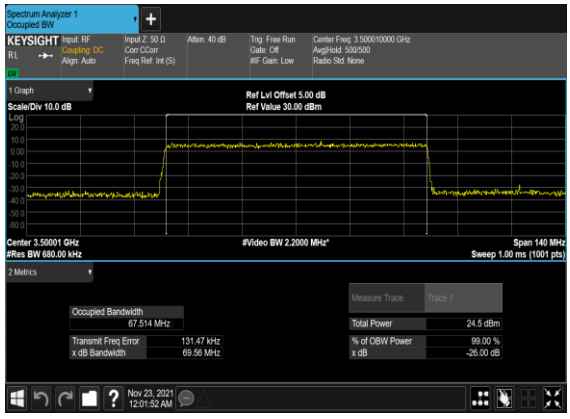


N78(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

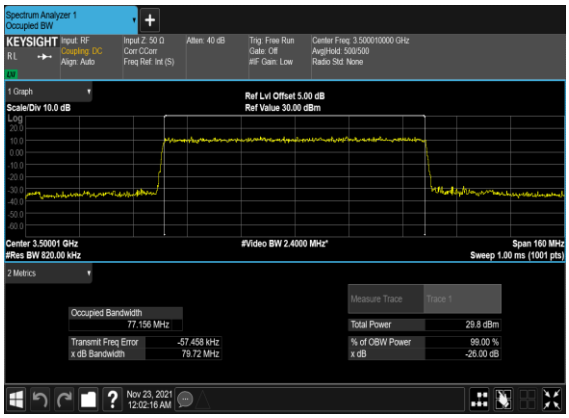


N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

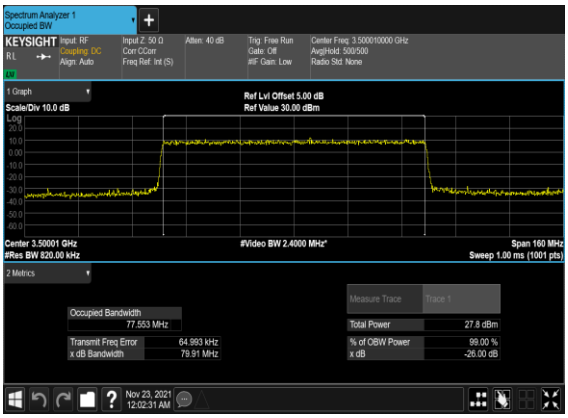
N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



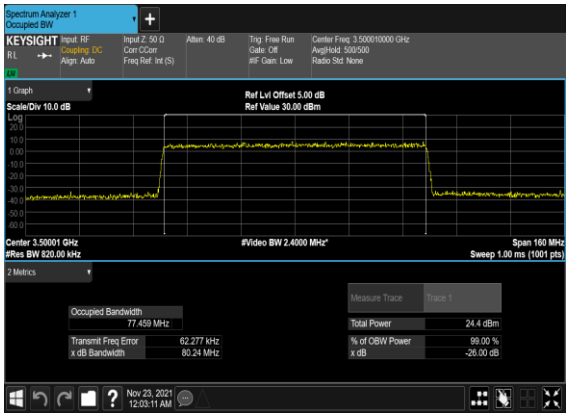
N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



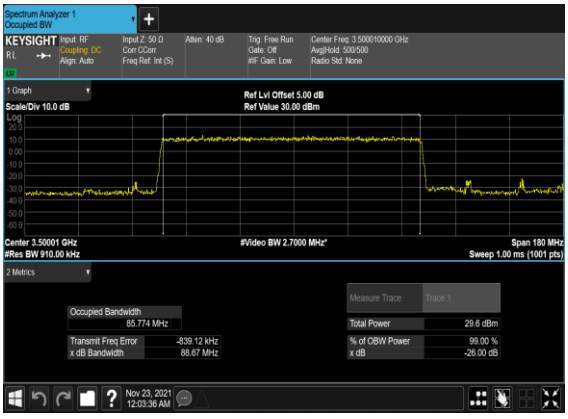
N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

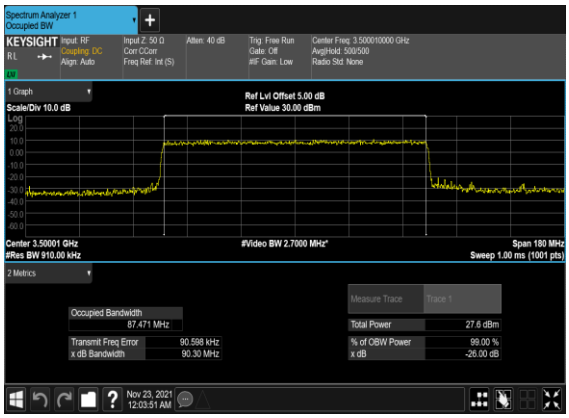
N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



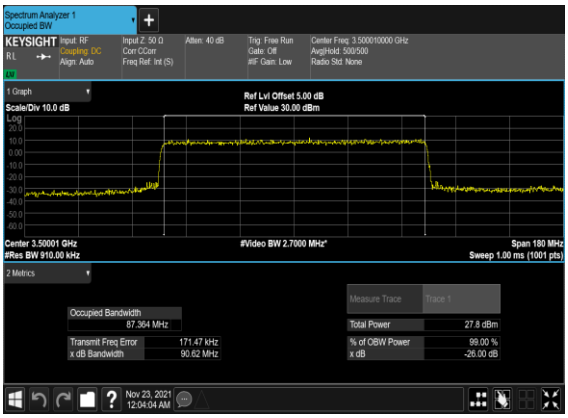
N78(90M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



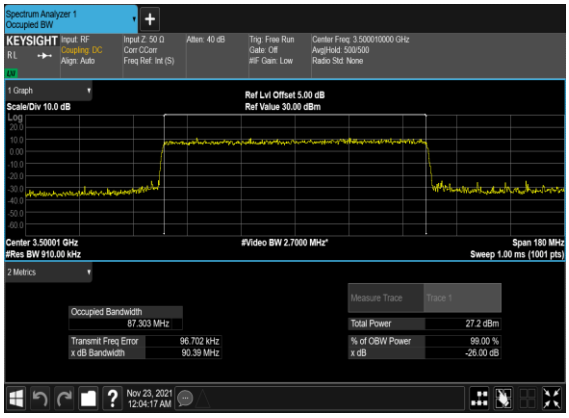
N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



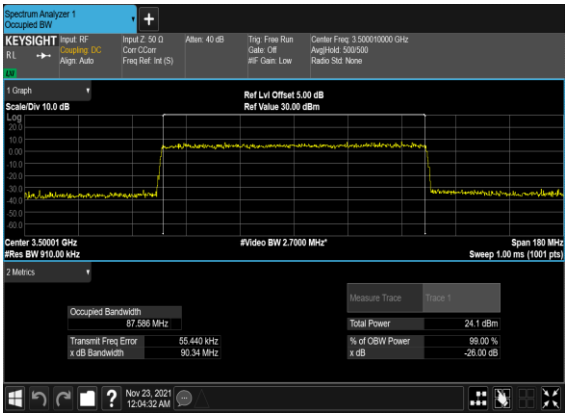
N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



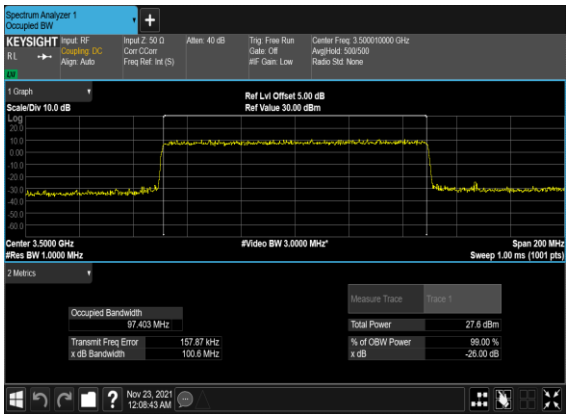
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

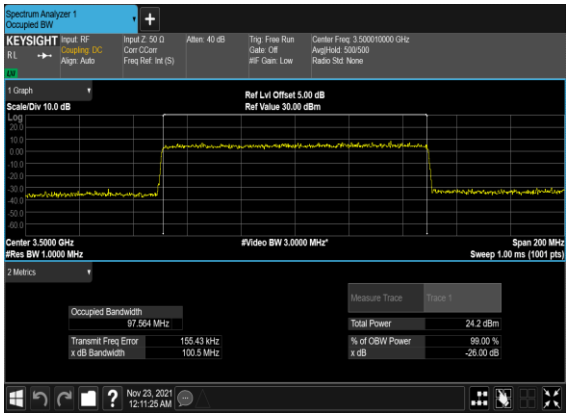
N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

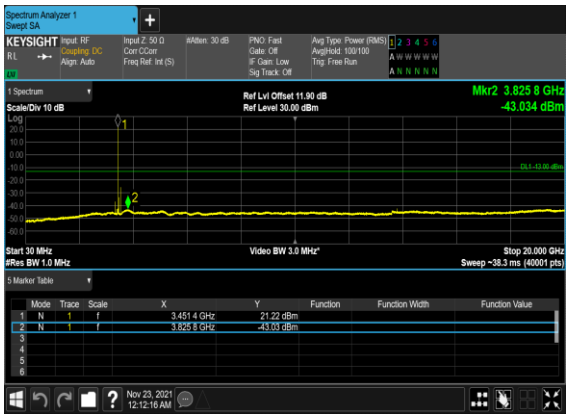
N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



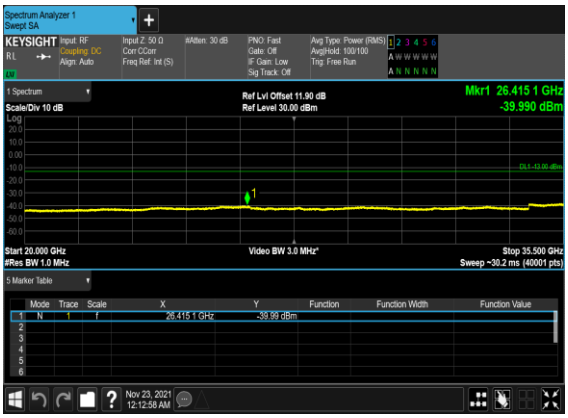
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	20	630668	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	630668	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

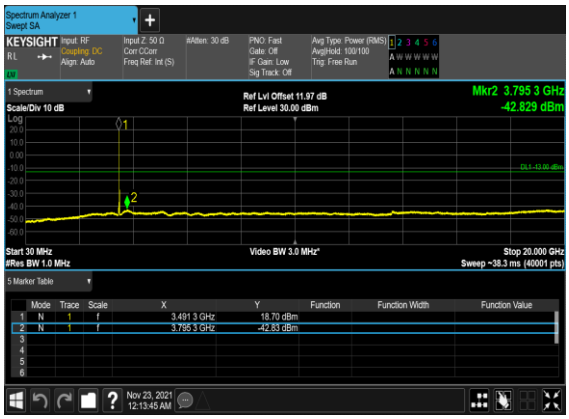
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



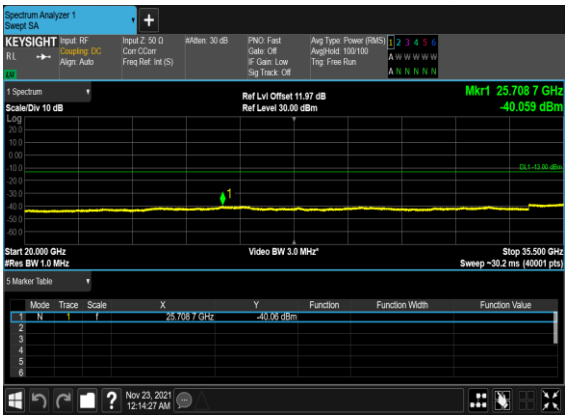
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



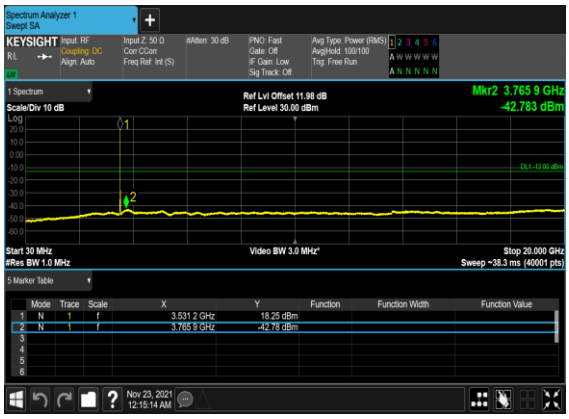
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

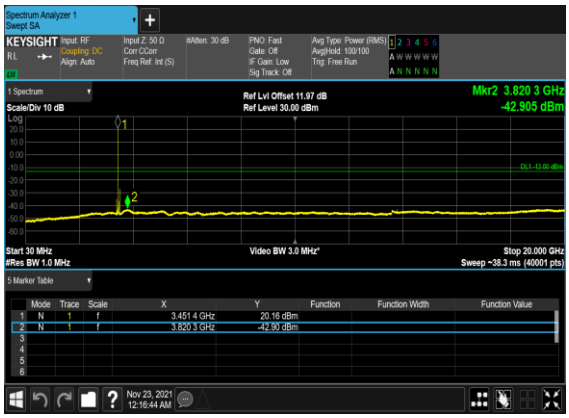


N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

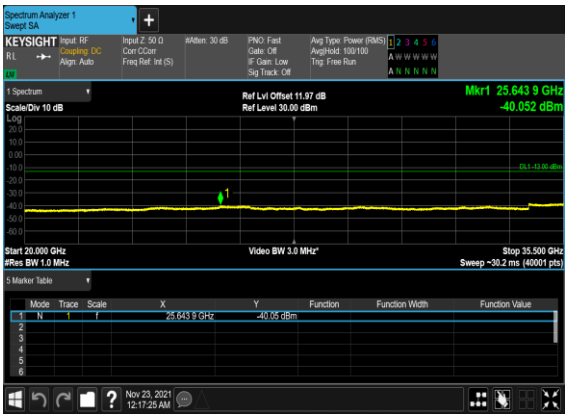


N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

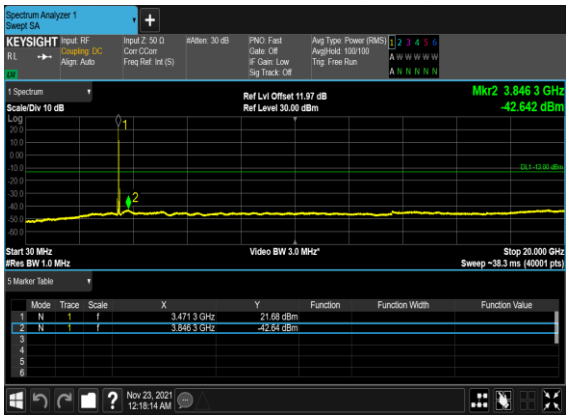
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



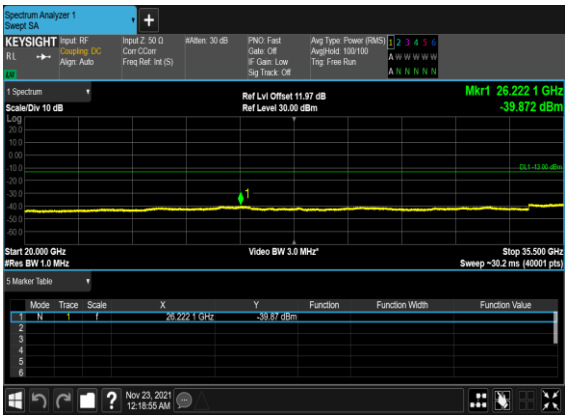
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



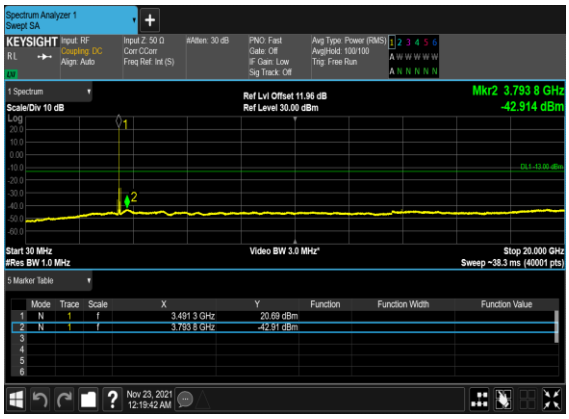
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



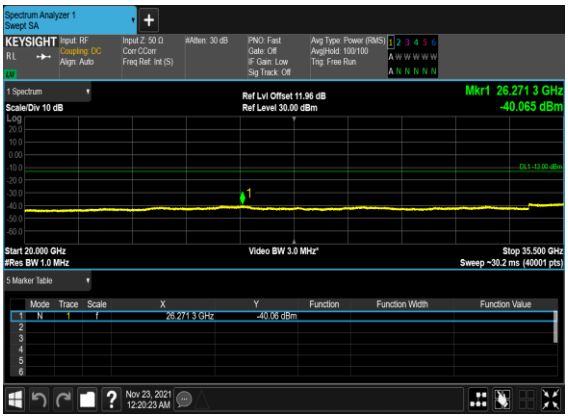
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



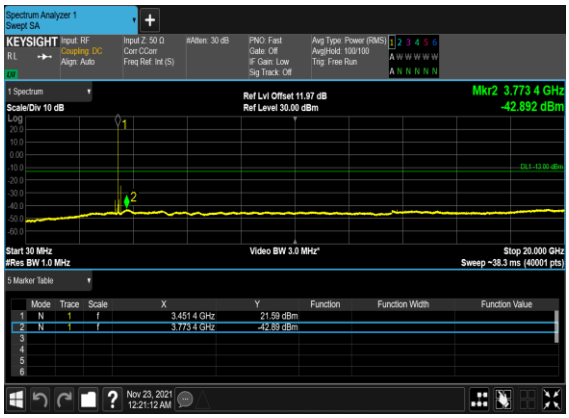
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



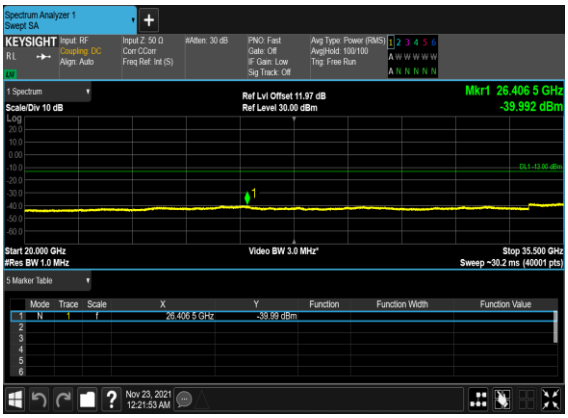
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



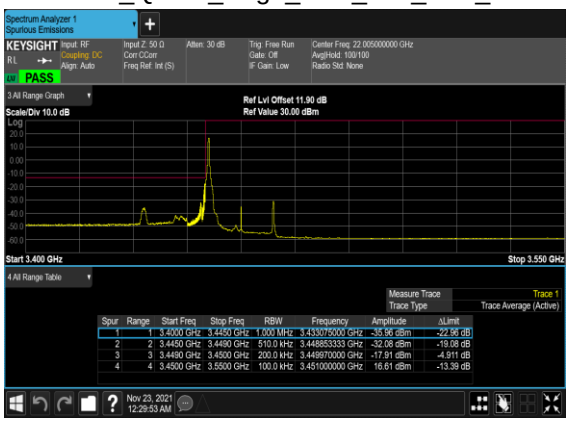
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



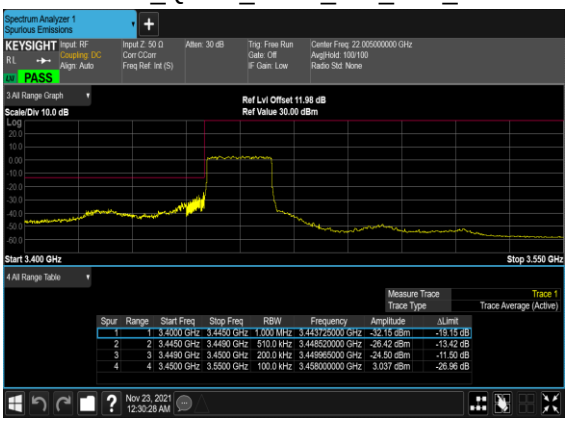
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	see graph	**PASS**
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	see graph	**PASS**
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

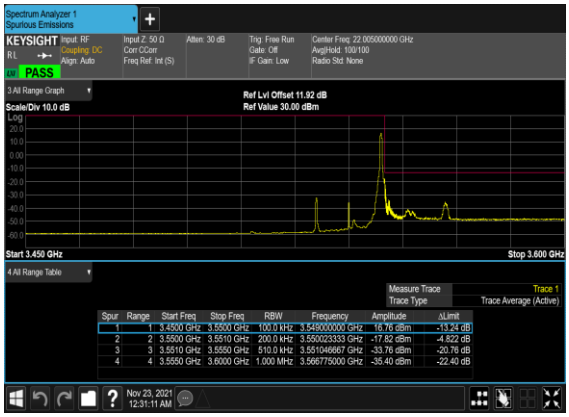
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



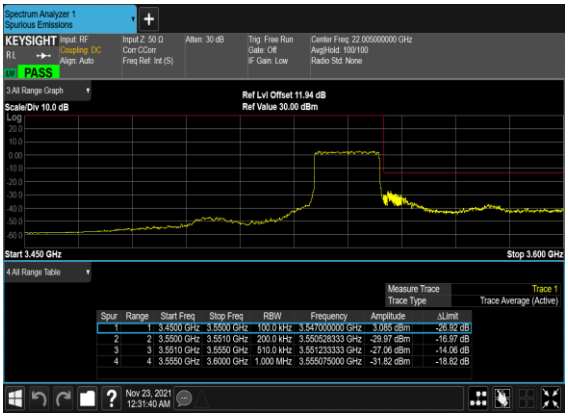
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



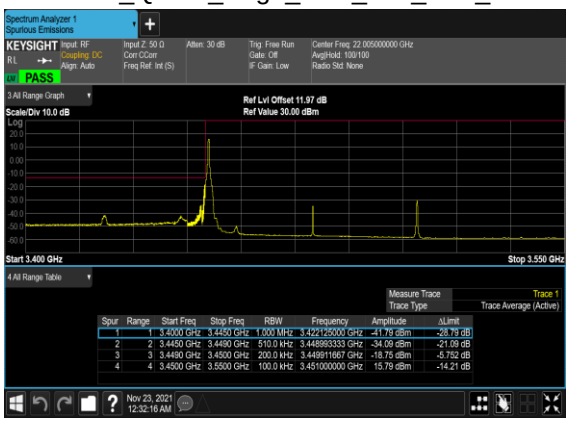
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



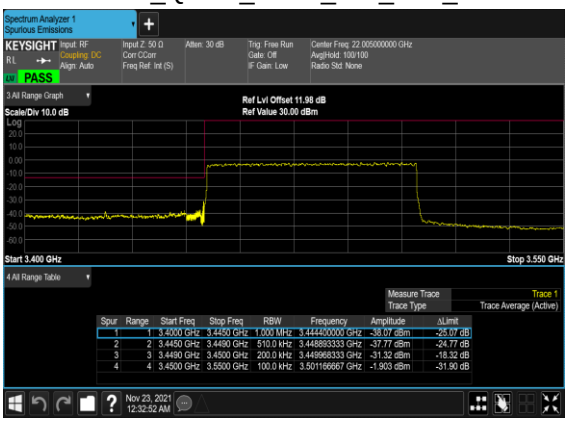
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



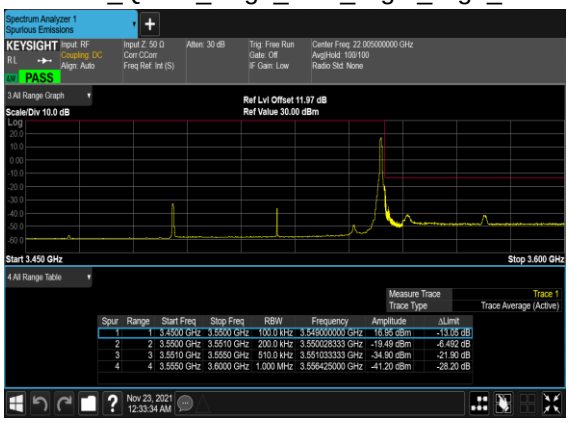
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



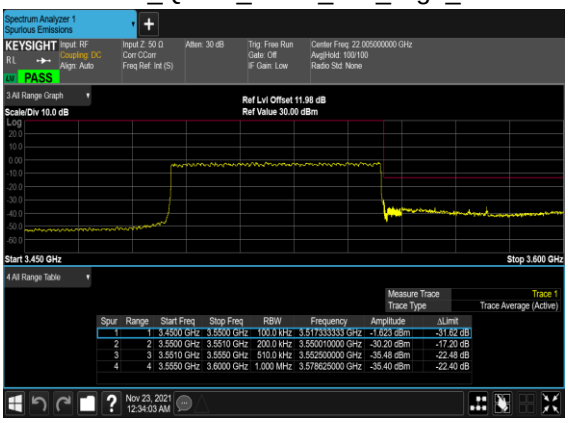
N78(60M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



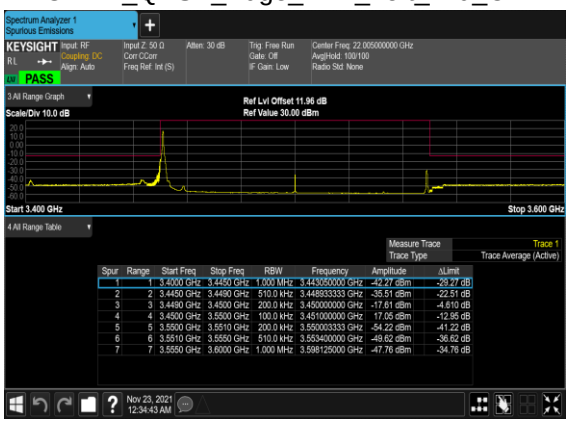
N78(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



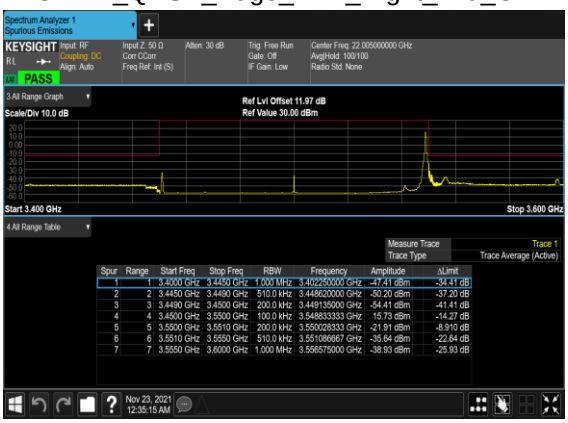
N78(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



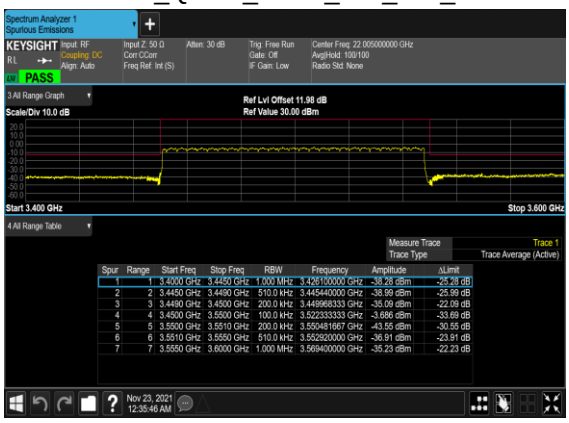
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



FR1 N78 UL MIMO(ANT10+ANT11)

Conducted Power and EIRP

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT10 Power(dBm)	ANT11 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	20.77	20.7	23.75	24.86	0.3059
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	20.81	20.71	23.77	24.88	0.3077
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	20.76	20.73	23.76	24.87	0.3066
78	30	20	630668	3460.02	CP-OFDM 16 QAM	25@12	20.23	20.26	23.26	24.37	0.2732
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	20.14	20.37	23.27	24.38	0.2740
78	30	20	630668	3460.02	CP-OFDM 16 QAM	1@49	20.09	20.37	23.24	24.35	0.2724
78	30	20	630668	3460.02	CP-OFDM 64 QAM	25@12	18.81	18.72	21.78	22.89	0.1943
78	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	18.56	18.77	21.68	22.79	0.1900
78	30	20	630668	3460.02	CP-OFDM 64 QAM	1@49	18.55	18.78	21.68	22.79	0.1900
78	30	20	630668	3460.02	CP-OFDM 256 QAM	25@12	15.78	15.66	18.73	19.84	0.0964
78	30	20	630668	3460.02	CP-OFDM 256 QAM	1@1	15.88	15.68	18.79	19.90	0.0978
78	30	20	630668	3460.02	CP-OFDM 256 QAM	1@49	15.85	15.7	18.79	19.90	0.0976
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	20.63	20.38	23.52	24.63	0.2902
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	20.69	20.45	23.58	24.69	0.2946
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	20.58	20.5	23.55	24.66	0.2924
78	30	20	633334	3500.01	CP-OFDM 16 QAM	25@12	20.08	19.9	23.00	24.11	0.2577
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	20.1	20.05	23.09	24.20	0.2627
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@49	20.01	20.14	23.09	24.20	0.2628
78	30	20	633334	3500.01	CP-OFDM 64 QAM	25@12	18.58	18.33	21.47	22.58	0.1810
78	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	18.3	18.57	21.45	22.56	0.1802
78	30	20	633334	3500.01	CP-OFDM 64 QAM	1@49	18.23	18.61	21.43	22.54	0.1797
78	30	20	633334	3500.01	CP-OFDM 256 QAM	25@12	15.62	15.36	18.50	19.61	0.0915
78	30	20	633334	3500.01	CP-OFDM 256 QAM	1@1	15.73	15.42	18.59	19.70	0.0933
78	30	20	633334	3500.01	CP-OFDM 256 QAM	1@49	15.67	15.44	18.57	19.68	0.0928
78	30	20	636000	3540	CP-OFDM QPSK	25@12	20.67	20.82	23.76	24.87	0.3066
78	30	20	636000	3540	CP-OFDM QPSK	1@1	20.56	20.84	23.71	24.82	0.3036
78	30	20	636000	3540	CP-OFDM QPSK	1@49	20.65	20.84	23.76	24.87	0.3066
78	30	20	636000	3540	CP-OFDM 16 QAM	25@12	20.12	20.35	23.25	24.36	0.2727
78	30	20	636000	3540	CP-OFDM 16 QAM	1@1	20.19	20.47	23.34	24.45	0.2788

78	30	20	636000	3540	CP-OFDM 16 QAM	1@49	20.02	20.46	23.26	24.37	0.2733
78	30	20	636000	3540	CP-OFDM 64 QAM	25@12	18.7	18.82	21.77	22.88	0.1941
78	30	20	636000	3540	CP-OFDM 64 QAM	1@1	18.58	18.87	21.74	22.85	0.1927
78	30	20	636000	3540	CP-OFDM 64 QAM	1@49	18.31	18.93	21.64	22.75	0.1884
78	30	20	636000	3540	CP-OFDM 256 QAM	25@12	15.7	15.79	18.76	19.87	0.0970
78	30	20	636000	3540	CP-OFDM 256 QAM	1@1	15.92	15.84	18.89	20.00	0.1000
78	30	20	636000	3540	CP-OFDM 256 QAM	1@49	15.69	15.56	18.64	19.75	0.0943
78	30	30	631000	3465	CP-OFDM QPSK	39@19	20.76	20.74	23.76	24.87	0.3069
78	30	30	631000	3465	CP-OFDM QPSK	1@1	20.76	20.82	23.80	24.91	0.3098
78	30	30	631000	3465	CP-OFDM QPSK	1@76	20.76	20.54	23.66	24.77	0.3000
78	30	30	631000	3465	CP-OFDM 16 QAM	39@19	20.29	20.29	23.30	24.41	0.2761
78	30	30	631000	3465	CP-OFDM 16 QAM	1@1	20.16	20.4	23.29	24.40	0.2755
78	30	30	631000	3465	CP-OFDM 16 QAM	1@76	20.21	20.13	23.18	24.29	0.2686
78	30	30	631000	3465	CP-OFDM 64 QAM	39@19	18.7	18.72	21.72	22.83	0.1919
78	30	30	631000	3465	CP-OFDM 64 QAM	1@1	18.44	18.81	21.64	22.75	0.1883
78	30	30	631000	3465	CP-OFDM 64 QAM	1@76	18.42	18.57	21.51	22.62	0.1826
78	30	30	631000	3465	CP-OFDM 256 QAM	39@19	15.85	15.69	18.78	19.89	0.0975
78	30	30	631000	3465	CP-OFDM 256 QAM	1@1	15.89	15.66	18.79	19.90	0.0977
78	30	30	631000	3465	CP-OFDM 256 QAM	1@76	15.9	15.45	18.69	19.80	0.0955
78	30	30	633334	3500.01	CP-OFDM QPSK	39@19	20.56	20.47	23.53	24.64	0.2908
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	20.67	20.46	23.58	24.69	0.2942
78	30	30	633334	3500.01	CP-OFDM QPSK	1@76	20.85	20.4	23.64	24.75	0.2986
78	30	30	633334	3500.01	CP-OFDM 16 QAM	39@19	20.16	19.93	23.06	24.17	0.2610
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	20.1	20.13	23.13	24.24	0.2652
78	30	30	633334	3500.01	CP-OFDM 16 QAM	1@76	20.1	20.09	23.11	24.22	0.2640
78	30	30	633334	3500.01	CP-OFDM 64 QAM	39@19	18.66	18.38	21.53	22.64	0.1838
78	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	18.42	18.62	21.53	22.64	0.1837
78	30	30	633334	3500.01	CP-OFDM 64 QAM	1@76	18.36	16.42	20.51	21.62	0.1451
78	30	30	633334	3500.01	CP-OFDM 256 QAM	39@19	15.73	15.36	18.56	19.67	0.0927
78	30	30	633334	3500.01	CP-OFDM 256 QAM	1@1	15.83	15.44	18.65	19.76	0.0946
78	30	30	633334	3500.01	CP-OFDM 256 QAM	1@76	15.83	15.4	18.63	19.74	0.0942
78	30	30	635666	3534.99	CP-OFDM QPSK	39@19	20.76	20.82	23.80	24.91	0.3098
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	20.77	20.7	23.75	24.86	0.3059
78	30	30	635666	3534.99	CP-OFDM QPSK	1@76	20.74	20.68	23.72	24.83	0.3041

78	30	30	635666	3534.99	CP-OFDM 16 QAM	39@19	20.27	20.37	23.33	24.44	0.2780
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	20.18	20.37	23.29	24.40	0.2752
78	30	30	635666	3534.99	CP-OFDM 16 QAM	1@76	20.03	20.34	23.20	24.31	0.2697
78	30	30	635666	3534.99	CP-OFDM 64 QAM	39@19	18.76	18.85	21.82	22.93	0.1961
78	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	18.58	18.81	21.71	22.82	0.1913
78	30	30	635666	3534.99	CP-OFDM 64 QAM	1@76	18.47	18.82	21.66	22.77	0.1892
78	30	30	635666	3534.99	CP-OFDM 256 QAM	39@19	15.86	15.8	18.84	19.95	0.0989
78	30	30	635666	3534.99	CP-OFDM 256 QAM	1@1	15.93	15.76	18.86	19.97	0.0992
78	30	30	635666	3534.99	CP-OFDM 256 QAM	1@76	16.76	15.28	19.09	20.20	0.1048
78	30	40	631334	3470.01	CP-OFDM QPSK	53@26	20.73	20.7	23.73	24.84	0.3045
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	20.76	20.84	23.81	24.92	0.3105
78	30	40	631334	3470.01	CP-OFDM QPSK	1@104	20.55	20.47	23.52	24.63	0.2904
78	30	40	631334	3470.01	CP-OFDM 16 QAM	53@26	20.21	20.2	23.22	24.33	0.2707
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	20.29	20.28	23.30	24.41	0.2758
78	30	40	631334	3470.01	CP-OFDM 16 QAM	1@104	20.1	20.02	23.07	24.18	0.2618
78	30	40	631334	3470.01	CP-OFDM 64 QAM	53@26	18.74	18.68	21.72	22.83	0.1919
78	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	18.57	18.88	21.74	22.85	0.1927
78	30	40	631334	3470.01	CP-OFDM 64 QAM	1@104	18.27	18.52	21.41	22.52	0.1785
78	30	40	631334	3470.01	CP-OFDM 256 QAM	53@26	15.72	15.6	18.67	19.78	0.0951
78	30	40	631334	3470.01	CP-OFDM 256 QAM	1@1	15.92	15.7	18.82	19.93	0.0984
78	30	40	631334	3470.01	CP-OFDM 256 QAM	1@104	16.69	16.36	19.54	20.65	0.1161
78	30	40	633334	3500.01	CP-OFDM QPSK	53@26	20.65	20.4	23.54	24.65	0.2915
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	20.92	20.54	23.74	24.85	0.3058
78	30	40	633334	3500.01	CP-OFDM QPSK	1@104	20.66	20.61	23.65	24.76	0.2989
78	30	40	633334	3500.01	CP-OFDM 16 QAM	53@26	20.12	19.92	23.03	24.14	0.2595
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	20.2	20.2	23.21	24.32	0.2704
78	30	40	633334	3500.01	CP-OFDM 16 QAM	1@104	20.01	20.23	23.13	24.24	0.2656
78	30	40	633334	3500.01	CP-OFDM 64 QAM	53@26	18.69	18.44	21.58	22.69	0.1857
78	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	18.65	18.64	21.66	22.77	0.1890
78	30	40	633334	3500.01	CP-OFDM 64 QAM	1@104	18.44	18.67	21.57	22.68	0.1852
78	30	40	633334	3500.01	CP-OFDM 256 QAM	53@26	15.69	15.39	18.55	19.66	0.0925
78	30	40	633334	3500.01	CP-OFDM 256 QAM	1@1	15.93	15.54	18.75	19.86	0.0968
78	30	40	633334	3500.01	CP-OFDM 256 QAM	1@104	16.78	16.41	19.61	20.72	0.1180
78	30	40	635332	3529.98	CP-OFDM QPSK	53@26	18.44	20.35	22.51	23.62	0.2301

78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	20.71	20.32	23.53	24.64	0.2911
78	30	40	635332	3529.98	CP-OFDM QPSK	1@104	20.52	20.46	23.50	24.61	0.2891
78	30	40	635332	3529.98	CP-OFDM 16 QAM	53@26	20.17	19.98	23.09	24.20	0.2628
78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	20.18	19.96	23.08	24.19	0.2625
78	30	40	635332	3529.98	CP-OFDM 16 QAM	1@104	20	20.03	23.03	24.14	0.2591
78	30	40	635332	3529.98	CP-OFDM 64 QAM	53@26	18.71	18.53	21.63	22.74	0.1880
78	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	18.42	18.48	21.46	22.57	0.1807
78	30	40	635332	3529.98	CP-OFDM 64 QAM	1@104	16.38	18.57	20.62	21.73	0.1490
78	30	40	635332	3529.98	CP-OFDM 256 QAM	53@26	16.84	16.18	19.53	20.64	0.1160
78	30	40	635332	3529.98	CP-OFDM 256 QAM	1@1	17	16.2	19.63	20.74	0.1185
78	30	40	635332	3529.98	CP-OFDM 256 QAM	1@104	16.81	16.26	19.55	20.66	0.1165
78	30	50	631668	3475.02	CP-OFDM QPSK	67@33	20.51	20.21	23.37	24.48	0.2807
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	20.53	20.27	23.41	24.52	0.2833
78	30	50	631668	3475.02	CP-OFDM QPSK	1@131	20.27	19.8	23.05	24.16	0.2607
78	30	50	631668	3475.02	CP-OFDM 16 QAM	67@33	20.01	19.7	22.87	23.98	0.2499
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	20.04	20	23.03	24.14	0.2594
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@131	19.74	19.62	22.69	23.80	0.2399
78	30	50	631668	3475.02	CP-OFDM 64 QAM	67@33	18.5	18.2	21.36	22.47	0.1767
78	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	18.37	18.56	21.48	22.59	0.1814
78	30	50	631668	3475.02	CP-OFDM 64 QAM	1@131	18.04	17.92	20.99	22.10	0.1622
78	30	50	631668	3475.02	CP-OFDM 256 QAM	67@33	16.61	16.02	19.34	20.45	0.1108
78	30	50	631668	3475.02	CP-OFDM 256 QAM	1@1	15.62	15.21	18.43	19.54	0.0900
78	30	50	631668	3475.02	CP-OFDM 256 QAM	1@131	15.37	14.84	18.12	19.23	0.0838
78	30	50	633334	3500.01	CP-OFDM QPSK	67@33	20.47	20.08	23.29	24.40	0.2754
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	20.56	20.2	23.39	24.50	0.2821
78	30	50	633334	3500.01	CP-OFDM QPSK	1@131	20.43	20.23	23.34	24.45	0.2787
78	30	50	633334	3500.01	CP-OFDM 16 QAM	67@33	19.94	19.66	22.81	23.92	0.2467
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.87	19.89	22.89	24.00	0.2512
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@131	19.83	19.93	22.89	24.00	0.2512
78	30	50	633334	3500.01	CP-OFDM 64 QAM	67@33	18.47	18.07	21.28	22.39	0.1736
78	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	18.17	18.3	21.25	22.36	0.1720
78	30	50	633334	3500.01	CP-OFDM 64 QAM	1@131	18.1	18.34	21.23	22.34	0.1715
78	30	50	633334	3500.01	CP-OFDM 256 QAM	67@33	15.42	15.05	18.25	19.36	0.0863
78	30	50	633334	3500.01	CP-OFDM 256 QAM	1@1	15.72	15.15	18.45	19.56	0.0905

78	30	50	633334	3500.01	CP-OFDM 256 QAM	1@131	15.58	15.21	18.41	19.52	0.0895
78	30	50	635000	3525	CP-OFDM QPSK	67@33	20.55	20.43	23.50	24.61	0.2891
78	30	50	635000	3525	CP-OFDM QPSK	1@1	20.42	20.09	23.27	24.38	0.2741
78	30	50	635000	3525	CP-OFDM QPSK	1@131	20.33	20.27	23.31	24.42	0.2767
78	30	50	635000	3525	CP-OFDM 16 QAM	67@33	20.08	19.94	23.02	24.13	0.2589
78	30	50	635000	3525	CP-OFDM 16 QAM	1@1	19.81	19.74	22.79	23.90	0.2452
78	30	50	635000	3525	CP-OFDM 16 QAM	1@131	19.64	19.93	22.80	23.91	0.2459
78	30	50	635000	3525	CP-OFDM 64 QAM	67@33	18.61	18.39	21.51	22.62	0.1829
78	30	50	635000	3525	CP-OFDM 64 QAM	1@1	18.09	18.2	21.16	22.27	0.1685
78	30	50	635000	3525	CP-OFDM 64 QAM	1@131	17.94	18.42	21.20	22.31	0.1701
78	30	50	635000	3525	CP-OFDM 256 QAM	67@33	15.53	15.38	18.47	19.58	0.0907
78	30	50	635000	3525	CP-OFDM 256 QAM	1@1	15.54	15.04	18.31	19.42	0.0874
78	30	50	635000	3525	CP-OFDM 256 QAM	1@131	15.41	15.24	18.34	19.45	0.0880
78	30	60	632000	3480	CP-OFDM QPSK	81@40	20.47	20.3	23.40	24.51	0.2822
78	30	60	632000	3480	CP-OFDM QPSK	1@1	20.64	20.43	23.55	24.66	0.2922
78	30	60	632000	3480	CP-OFDM QPSK	1@160	20.28	20.06	23.18	24.29	0.2686
78	30	60	632000	3480	CP-OFDM 16 QAM	81@40	20	19.75	22.89	24.00	0.2510
78	30	60	632000	3480	CP-OFDM 16 QAM	1@1	20.13	20.2	23.18	24.29	0.2683
78	30	60	632000	3480	CP-OFDM 16 QAM	1@160	19.78	19.64	22.72	23.83	0.2416
78	30	60	632000	3480	CP-OFDM 64 QAM	81@40	18.49	18.23	21.37	22.48	0.1771
78	30	60	632000	3480	CP-OFDM 64 QAM	1@1	18.35	18.44	21.41	22.52	0.1785
78	30	60	632000	3480	CP-OFDM 64 QAM	1@160	18.06	18.08	21.08	22.19	0.1656
78	30	60	632000	3480	CP-OFDM 256 QAM	81@40	15.52	15.25	18.40	19.51	0.0893
78	30	60	632000	3480	CP-OFDM 256 QAM	1@1	16.75	16.32	19.55	20.66	0.1164
78	30	60	632000	3480	CP-OFDM 256 QAM	1@160	15.42	14.96	18.21	19.32	0.0854
78	30	60	633334	3500.01	CP-OFDM QPSK	81@40	20.41	20.15	23.29	24.40	0.2756
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	20.72	20.38	23.56	24.67	0.2933
78	30	60	633334	3500.01	CP-OFDM QPSK	1@160	20.41	20.23	23.33	24.44	0.2781
78	30	60	633334	3500.01	CP-OFDM 16 QAM	81@40	19.96	19.63	22.81	23.92	0.2465
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	20.25	20.08	23.18	24.29	0.2683
78	30	60	633334	3500.01	CP-OFDM 16 QAM	1@160	19.82	19.9	22.87	23.98	0.2501
78	30	60	633334	3500.01	CP-OFDM 64 QAM	81@40	18.48	18.14	21.32	22.43	0.1751
78	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	18.52	18.38	21.46	22.57	0.1808
78	30	60	633334	3500.01	CP-OFDM 64 QAM	1@160	18.3	18.56	21.44	22.55	0.1800

78	30	60	633334	3500.01	CP-OFDM 256 QAM	81@40	15.44	15.1	18.28	19.39	0.0870
78	30	60	633334	3500.01	CP-OFDM 256 QAM	1@1	15.75	15.35	18.56	19.67	0.0928
78	30	60	633334	3500.01	CP-OFDM 256 QAM	1@160	15.58	15.31	18.46	19.57	0.0905
78	30	60	634666	3519.99	CP-OFDM QPSK	81@40	20.48	20.41	23.46	24.57	0.2861
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	20.62	20.13	23.39	24.50	0.2820
78	30	60	634666	3519.99	CP-OFDM QPSK	1@160	20.29	20.23	23.27	24.38	0.2742
78	30	60	634666	3519.99	CP-OFDM 16 QAM	81@40	20.02	19.85	22.95	24.06	0.2545
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	20.03	19.8	22.93	24.04	0.2533
78	30	60	634666	3519.99	CP-OFDM 16 QAM	1@160	19.7	19.94	22.83	23.94	0.2479
78	30	60	634666	3519.99	CP-OFDM 64 QAM	81@40	18.5	18.35	21.44	22.55	0.1797
78	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	18.3	18.19	21.26	22.37	0.1724
78	30	60	634666	3519.99	CP-OFDM 64 QAM	1@160	18.07	18.4	21.25	22.36	0.1721
78	30	60	634666	3519.99	CP-OFDM 256 QAM	81@40	15.52	15.35	18.45	19.56	0.0903
78	30	60	634666	3519.99	CP-OFDM 256 QAM	1@1	16.73	16.09	19.43	20.54	0.1133
78	30	60	634666	3519.99	CP-OFDM 256 QAM	1@160	16.45	16.07	19.27	20.38	0.1093
78	30	70	632334	3485.01	CP-OFDM QPSK	95@47	20.33	20.06	23.21	24.32	0.2702
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	20.5	20.36	23.44	24.55	0.2852
78	30	70	632334	3485.01	CP-OFDM QPSK	1@187	20.14	20.07	23.12	24.23	0.2646
78	30	70	632334	3485.01	CP-OFDM 16 QAM	95@47	19.85	19.63	22.75	23.86	0.2433
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	19.81	20.01	22.92	24.03	0.2530
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@187	19.45	19.77	22.62	23.73	0.2362
78	30	70	632334	3485.01	CP-OFDM 64 QAM	95@47	18.34	18.07	21.22	22.33	0.1709
78	30	70	632334	3485.01	CP-OFDM 64 QAM	1@1	18.35	18.38	21.38	22.49	0.1772
78	30	70	632334	3485.01	CP-OFDM 64 QAM	1@187	18	18.14	21.08	22.19	0.1656
78	30	70	632334	3485.01	CP-OFDM 256 QAM	95@47	15.36	15.02	18.20	19.31	0.0854
78	30	70	632334	3485.01	CP-OFDM 256 QAM	1@1	16.54	16.14	19.35	20.46	0.1113
78	30	70	632334	3485.01	CP-OFDM 256 QAM	1@187	16.33	15.81	19.09	20.20	0.1047
78	30	70	633334	3500.01	CP-OFDM QPSK	95@47	20.34	20.05	23.21	24.32	0.2703
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	20.62	20.31	23.48	24.59	0.2876
78	30	70	633334	3500.01	CP-OFDM QPSK	1@187	20.24	20.02	23.14	24.25	0.2662
78	30	70	633334	3500.01	CP-OFDM 16 QAM	95@47	19.85	19.53	22.70	23.81	0.2406
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	19.87	19.97	22.93	24.04	0.2535
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@187	19.55	19.76	22.67	23.78	0.2386
78	30	70	633334	3500.01	CP-OFDM 64 QAM	95@47	18.31	17.98	21.16	22.27	0.1686

78	30	70	633334	3500.01	CP-OFDM 64 QAM	1@1	18.48	18.32	21.41	22.52	0.1787
78	30	70	633334	3500.01	CP-OFDM 64 QAM	1@187	17.96	18.19	21.09	22.20	0.1658
78	30	70	633334	3500.01	CP-OFDM 256 QAM	95@47	15.35	14.97	18.17	19.28	0.0848
78	30	70	633334	3500.01	CP-OFDM 256 QAM	1@1	16.62	16	19.33	20.44	0.1107
78	30	70	633334	3500.01	CP-OFDM 256 QAM	1@187	15.56	15.99	18.79	19.90	0.0977
78	30	70	634332	3514.98	CP-OFDM QPSK	95@47	20.38	20.07	23.24	24.35	0.2721
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	20.59	20.19	23.40	24.51	0.2828
78	30	70	634332	3514.98	CP-OFDM QPSK	1@187	20.11	20.09	23.11	24.22	0.2643
78	30	70	634332	3514.98	CP-OFDM 16 QAM	95@47	19.9	19.61	22.77	23.88	0.2442
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	19.97	19.84	22.92	24.03	0.2527
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@187	19.55	19.78	22.68	23.79	0.2392
78	30	70	634332	3514.98	CP-OFDM 64 QAM	95@47	18.34	18.16	21.26	22.37	0.1726
78	30	70	634332	3514.98	CP-OFDM 64 QAM	1@1	18.25	18.19	21.23	22.34	0.1714
78	30	70	634332	3514.98	CP-OFDM 64 QAM	1@187	17.83	18.24	21.05	22.16	0.1644
78	30	70	634332	3514.98	CP-OFDM 256 QAM	95@47	15.45	15.15	18.31	19.42	0.0876
78	30	70	634332	3514.98	CP-OFDM 256 QAM	1@1	14.66	15.11	17.90	19.01	0.0796
78	30	70	634332	3514.98	CP-OFDM 256 QAM	1@187	16.34	16.1	19.23	20.34	0.1082
78	30	80	632668	3490.02	CP-OFDM QPSK	109@54	20.36	20.02	23.20	24.31	0.2700
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	20.47	20.28	23.39	24.50	0.2816
78	30	80	632668	3490.02	CP-OFDM QPSK	1@215	20.19	20.14	23.18	24.29	0.2682
78	30	80	632668	3490.02	CP-OFDM 16 QAM	109@54	19.9	19.54	22.73	23.84	0.2423
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	19.91	19.82	22.88	23.99	0.2504
78	30	80	632668	3490.02	CP-OFDM 16 QAM	1@215	19.55	19.59	22.58	23.69	0.2339
78	30	80	632668	3490.02	CP-OFDM 64 QAM	109@54	18.38	18.05	21.23	22.34	0.1713
78	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	18.33	17.38	20.89	22.00	0.1585
78	30	80	632668	3490.02	CP-OFDM 64 QAM	1@215	18.06	18.14	21.11	22.22	0.1667
78	30	80	632668	3490.02	CP-OFDM 256 QAM	109@54	15.38	14.99	18.20	19.31	0.0853
78	30	80	632668	3490.02	CP-OFDM 256 QAM	1@1	15.68	15.26	18.49	19.60	0.0911
78	30	80	632668	3490.02	CP-OFDM 256 QAM	1@215	15.42	15.12	18.28	19.39	0.0870
78	30	80	633334	3500.01	CP-OFDM QPSK	109@54	21.6	20.8	24.23	25.34	0.3419
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	21.72	21.03	24.40	25.51	0.3555
78	30	80	633334	3500.01	CP-OFDM QPSK	1@215	21.32	20.91	24.13	25.24	0.3342
78	30	80	633334	3500.01	CP-OFDM 16 QAM	109@54	21.12	20.32	23.75	24.86	0.3061
78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	21.41	20.33	23.91	25.02	0.3180

78	30	80	633334	3500.01	CP-OFDM 16 QAM	1@215	20.98	20.21	23.62	24.73	0.2973
78	30	80	633334	3500.01	CP-OFDM 64 QAM	109@54	19.61	18.83	22.25	23.36	0.2167
78	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	19.67	18.8	22.27	23.38	0.2176
78	30	80	633334	3500.01	CP-OFDM 64 QAM	1@215	19.3	18.65	22.00	23.11	0.2045
78	30	80	633334	3500.01	CP-OFDM 256 QAM	109@54	16.56	15.89	19.25	20.36	0.1086
78	30	80	633334	3500.01	CP-OFDM 256 QAM	1@1	16.68	16.14	19.43	20.54	0.1132
78	30	80	633334	3500.01	CP-OFDM 256 QAM	1@215	15.31	15.12	18.23	19.34	0.0858
78	30	80	634000	3510	CP-OFDM QPSK	109@54	19.87	20.17	23.03	24.14	0.2596
78	30	80	634000	3510	CP-OFDM QPSK	1@1	20.54	20.39	23.48	24.59	0.2875
78	30	80	634000	3510	CP-OFDM QPSK	1@215	20.08	20.19	23.15	24.26	0.2664
78	30	80	634000	3510	CP-OFDM 16 QAM	109@54	19.93	19.69	22.82	23.93	0.2473
78	30	80	634000	3510	CP-OFDM 16 QAM	1@1	19.98	19.92	22.96	24.07	0.2553
78	30	80	634000	3510	CP-OFDM 16 QAM	1@215	19.5	19.69	22.61	23.72	0.2353
78	30	80	634000	3510	CP-OFDM 64 QAM	109@54	18.43	18.18	21.32	22.43	0.1749
78	30	80	634000	3510	CP-OFDM 64 QAM	1@1	18.64	18.32	21.49	22.60	0.1821
78	30	80	634000	3510	CP-OFDM 64 QAM	1@215	18.1	18.22	21.17	22.28	0.1691
78	30	80	634000	3510	CP-OFDM 256 QAM	109@54	14.44	15.18	17.84	18.95	0.0785
78	30	80	634000	3510	CP-OFDM 256 QAM	1@1	15.72	15.27	18.51	19.62	0.0916
78	30	80	634000	3510	CP-OFDM 256 QAM	1@215	15.27	15.11	18.20	19.31	0.0853
78	30	90	633000	3495	CP-OFDM QPSK	123@61	20.25	20.01	23.14	24.25	0.2662
78	30	90	633000	3495	CP-OFDM QPSK	1@1	20.53	20.24	23.40	24.51	0.2823
78	30	90	633000	3495	CP-OFDM QPSK	1@243	20.22	20.1	23.17	24.28	0.2680
78	30	90	633000	3495	CP-OFDM 16 QAM	123@61	19.79	19.55	22.68	23.79	0.2394
78	30	90	633000	3495	CP-OFDM 16 QAM	1@1	19.77	19.95	22.87	23.98	0.2501
78	30	90	633000	3495	CP-OFDM 16 QAM	1@243	19.54	19.85	22.71	23.82	0.2409
78	30	90	633000	3495	CP-OFDM 64 QAM	123@61	18.28	18.02	21.16	22.27	0.1687
78	30	90	633000	3495	CP-OFDM 64 QAM	1@1	18.28	18.32	21.31	22.42	0.1746
78	30	90	633000	3495	CP-OFDM 64 QAM	1@243	18.07	18.28	21.19	22.30	0.1697
78	30	90	633000	3495	CP-OFDM 256 QAM	123@61	15.4	14.99	18.21	19.32	0.0855
78	30	90	633000	3495	CP-OFDM 256 QAM	1@1	15.52	15.21	18.38	19.49	0.0889
78	30	90	633000	3495	CP-OFDM 256 QAM	1@243	16.26	16.11	19.20	20.31	0.1073
78	30	90	633334	3500.01	CP-OFDM QPSK	123@61	20.37	20.09	23.24	24.35	0.2724
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	20.64	20.29	23.48	24.59	0.2877
78	30	90	633334	3500.01	CP-OFDM QPSK	1@243	20.28	20.11	23.21	24.32	0.2702

78	30	90	633334	3500.01	CP-OFDM 16 QAM	123@61	19.85	19.54	22.71	23.82	0.2409
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	19.97	19.93	22.96	24.07	0.2553
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@243	19.72	19.73	22.74	23.85	0.2424
78	30	90	633334	3500.01	CP-OFDM 64 QAM	123@61	18.4	18.06	21.24	22.35	0.1719
78	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	18.32	18.31	21.33	22.44	0.1752
78	30	90	633334	3500.01	CP-OFDM 64 QAM	1@243	18.15	18.33	21.25	22.36	0.1722
78	30	90	633334	3500.01	CP-OFDM 256 QAM	123@61	15.38	15.01	18.21	19.32	0.0855
78	30	90	633334	3500.01	CP-OFDM 256 QAM	1@1	16.6	16.33	19.48	20.59	0.1145
78	30	90	633334	3500.01	CP-OFDM 256 QAM	1@243	16.38	16.15	19.28	20.39	0.1093
78	30	90	633666	3504.99	CP-OFDM QPSK	123@61	21.67	20.95	24.34	25.45	0.3504
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	21.74	21.06	24.42	25.53	0.3576
78	30	90	633666	3504.99	CP-OFDM QPSK	1@243	21.28	20.96	24.13	25.24	0.3344
78	30	90	633666	3504.99	CP-OFDM 16 QAM	123@61	21.14	20.47	23.83	24.94	0.3118
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	21.4	20.42	23.95	25.06	0.3205
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@243	20.89	20.23	23.58	24.69	0.2946
78	30	90	633666	3504.99	CP-OFDM 64 QAM	123@61	19.61	18.96	22.31	23.42	0.2197
78	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	19.78	18.92	22.38	23.49	0.2234
78	30	90	633666	3504.99	CP-OFDM 64 QAM	1@243	19.36	18.71	22.06	23.17	0.2074
78	30	90	633666	3504.99	CP-OFDM 256 QAM	123@61	16.6	15.97	19.31	20.42	0.1101
78	30	90	633666	3504.99	CP-OFDM 256 QAM	1@1	16.6	16.15	19.39	20.50	0.1122
78	30	90	633666	3504.99	CP-OFDM 256 QAM	1@243	15.37	15.56	18.48	19.59	0.0909
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	20.38	20.1	23.25	24.36	0.2731
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	20.52	20.24	23.39	24.50	0.2820
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	20.17	20.05	23.12	24.23	0.2649
78	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	19.87	19.63	22.76	23.87	0.2439
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	19.89	19.79	22.85	23.96	0.2489
78	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	19.46	19.64	22.56	23.67	0.2329
78	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	18.4	18.11	21.27	22.38	0.1729
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	18.35	18.32	21.35	22.46	0.1760
78	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	17.99	18.32	21.17	22.28	0.1690
78	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	15.36	15.07	18.23	19.34	0.0859
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	16.57	16.28	19.44	20.55	0.1134
78	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	14.46	15.31	17.92	19.03	0.0799

Software Version: 21.02.111001

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Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.26041	**PASS**	NV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00665	**PASS**	LV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00329	**PASS**	HV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00747	**PASS**	-30℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00824	**PASS**	-20℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.0029	**PASS**	-10℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00429	**PASS**	0℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00549	**PASS**	10℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.0034	**PASS**	20℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00849	**PASS**	30℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00508	**PASS**	40℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	-0.00486	**PASS**	50℃

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	630668	3460.02	CP-OFDM QPSK	51@0	11.01	13	**PASS**
78	30	20	630668	3460.02	CP-OFDM QPSK	1@0	11.25	13	**PASS**
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	11.4	13	**PASS**
78	30	20	633334	3500.01	CP-OFDM QPSK	1@0	10.98	13	**PASS**
78	30	20	636000	3540.0	CP-OFDM QPSK	51@0	11.5	13	**PASS**
78	30	20	636000	3540.0	CP-OFDM QPSK	1@0	11.26	13	**PASS**