# FCC RF Test Report

| | | |
|---|---|---|
| APPLICANT | : | Xiaomi Communications Co., Ltd. |
| EQUIPMENT | : | Mobile Phone |
| BRAND NAME | : | XIAOMI |
| MODEL NAME | : | 2109119DG |
| FCC ID | : | 2AFZZ119DG |
| STANDARD | : | 47 CFR Part 2, Part 27 Subpart Q |
| CLASSIFICATION | : | PCS Licensed Transmitter Held to Ear (PCE) |
| TEST DATE(S) | : | Jul. 06, 2021 ~ Jul. 22, 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.**

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

Jason Jia

**Reviewed by: Jason Jia / Supervisor**

Alex wang

**Approved by: Alex Wang / Manager**

ACCREDITED
Cert #5145.02

***Sporton International (Kunshan) Inc.***

***No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China***

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# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FG162118G | Rev. 01 | Initial issue of report | Aug. 02, 2021 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|
| 3.4 | §2.1046 | Conducted Output Power | Reporting Only | PASS | - |
| 3.5 | §27.50 (k)(4) | Peak-to-Average Ratio | <13dB | PASS | |
| 3.6 | §27.50 (k)(3) | EIRP | EIRP < 1W (30dBm) | PASS | - |
| 3.7 | §2.1049 | Occupied Bandwidth | Reporting Only | PASS | - |
| 3.8 | §2.1051<br>§27.53 (n)(2) | Conducted Band Edge Measurement | -13dBm/MHz | PASS | - |
| 3.9 | §2.1051<br>§27.53 (n)(2) | Conducted Spurious Emission | -13dBm/MHz | PASS | - |
| 3.10 | §2.1055<br>§27.54 | Frequency Stability Temperature & Voltage | Within the band | PASS | - |
| 4.4 | §2.1053<br>§27.53 (n)(2) | Radiated Spurious Emission | -13dBm/MHz | PASS | Under limit 17.67 dB at 13806.000 MHz |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

# 1 General Description

## 1.1 Applicant

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

## 1.2 Manufacturer

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

## 1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Mobile Phone |
| **Brand Name** | XIAOMI |
| **Model Name** | 2109119DG |
| **FCC ID** | 2AFZZ119DG |
| **IMEI Code** | Conducted : 865950050015692/865950050015700<br>Radiation :<br>865950050031798/865950050031806<br>865950050022839/865950050022847 |
| **HW Version** | P2 |
| **SW Version** | MIUI12.5 |
| **EUT Stage** | Identical Prototype |

## 1.4 Product Specification of Equipment Under Test

| Product Feature | |
|---|---|
| **Tx/Rx Frequency** | 5G NR n77: 3450 MHz ~ 3550 MHz<br>5G NR n78: 3450 MHz ~ 3550 MHz |
| **Bandwidth** | 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz |
| **SCS** | 30kHz |
| **Maximum Output Power to Antenna** | **<Ant. 6>:**<br>5G NR n77 : 23.88 dBm<br>5G NR n78 : 26.75 dBm |
| **Antenna Gain** | **<Ant. 4>:**<br>5G NR n77 : -1.6 dBi<br>5G NR n78 : -1.6 dBi<br>**<Ant. 6>:**<br>5G NR n77 : -2.0 dBi<br>5G NR n78 : -2.0 dBi<br>**<Ant. 8>:**<br>5G NR n77 : -0.8 dBi |

| | |
|---|---|
| | 5G NR n78 : -0.8 dBi<br>**<Ant. 12>:**<br>5G NR n77 : -3.9 dBi<br>5G NR n78 : -3.9 dBi |
| **Type of Modulation** | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM |

## 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 | | 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 | 0.2871 | 18M2G7D | 0.2270 | 18M3W7D |
| **30** | 3465 ~ 3534.99 | 0.2965 | 27M8G7D | 0.2366 | 27M9W7D |
| **40** | 3470.01 ~ 3529.98 | 0.2979 | 37M7G7D | 0.2460 | 37M9W7D |
| **50** | 3475.02 ~ 3525 | 0.2710 | 47M5G7D | 0.2153 | 47M6W7D |
| **60** | 3480 ~ 3519.99 | 0.2780 | 57M8G7D | 0.2168 | 57M9W7D |
| **70** | 3485.01 ~ 3514.98 | 0.2748 | 67M5G7D | 0.2239 | 67M6W7D |
| **80** | 3490.02 ~ 3510 | 0.2698 | 77M6G7D | 0.2193 | 77M6W7D |
| **90** | 3495 ~ 3504.99 | 0.2729 | 87M5G7D | 0.2173 | 87M5W7D |
| **100** | 3500.01 | 0.2985 | 97M7G7D | 0.2218 | 97M5W7D |

**Note:**

1. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results of Conducted 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

**<FCC>-KS**

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<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158<br>FAX : +86-512-57900958 | | |
| **Test Site No.** | **Sporton Site No.** | **FCC Designation No.** | **FCC Test Firm Registration No.** |
| | 03CH04-KS<br>TH01-KS | CN1257 | 314309 |

## 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.

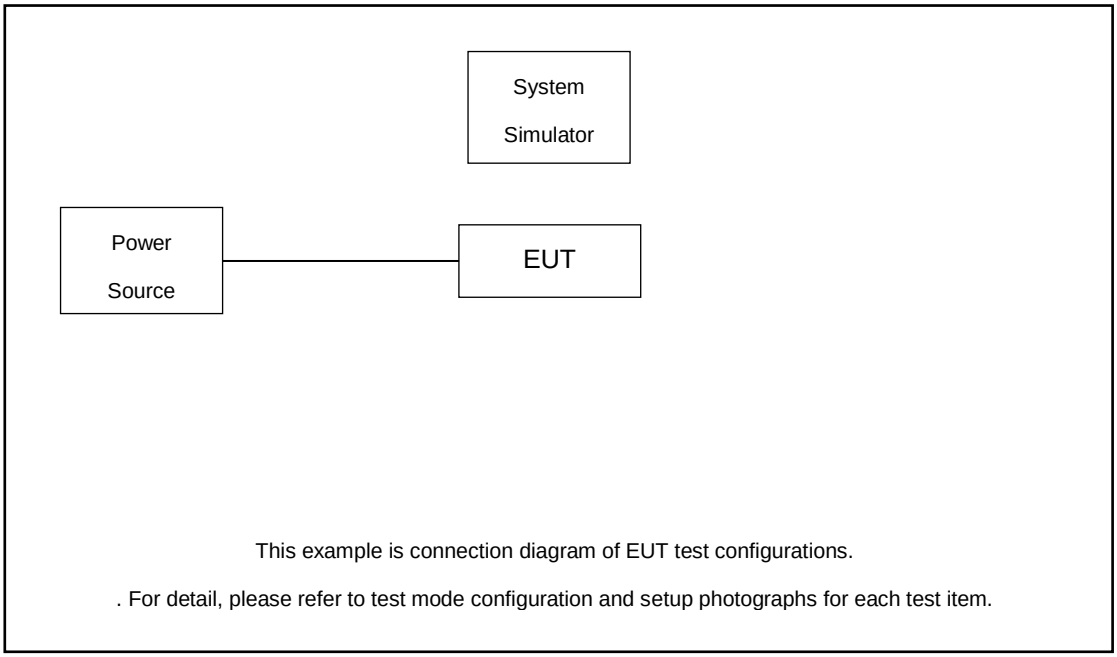
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

| 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/n78 | 5M, 10M, 15M, 20M | QPSK, 16QAM, 64QAM | 1RB, Partial RB, Full RB | L, M, H |
| Peak-to-Average Ratio | 5G n78 | 20M | QPSK, 16QAM, 64QAM | Full RB | M |
| E.I.R.P | 5G n78 | 5M, 10M, 15M, 20M | QPSK, 16QAM, 64QAM | 1RB, Partial RB, Full RB | L, M, H |
| 26dB and 99% Bandwidth | 5G n78 | 20M | QPSK, 16QAM | Full RB | M |
| Conducted Band Edge | 5G n78 | 5M, 10M, 15M, 20M | QPSK, 16QAM, 64QAM | 1RB, Full RB | L, H |
| Conducted Spurious Emission | 5G n78 | 5M, 10M, 15M, 20M | QPSK | 1RB | L, M, H |
| Frequency Stability | 5G n78 | 20M | QPSK | 1RB | L, H |
| Radiated Spurious Emission | 5G n77/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. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results provided in this report covers Band n78 as well as Band n77.
3. Based on engineering evaluation, only the worst modulations test results are shown in the report.
4. 5G NR n78 supports SA mode and NSA mode. For NSA mode of all EN-DC combination, we only show the combination of the maximum power among all NSA combinations in the report.
5. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report
6. 5G NR n78 supports HPUE.

## 2.2 Connection Diagram of Test System




## 2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | 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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

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

= 4.2 + 10 = 14.2 (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 | 3495.00 | 3500.01 | 3504.99 |
| 80 | Channel | 632668 | 633334 | 634000 |
| | Frequency | 3490.02 | 3500.01 | 3510.00 |
| 70 | Channel | 632334 | 633334 | 634332 |
| | Frequency | 3485.01 | 3500.01 | 3514.98 |
| 60 | Channel | 632000 | 633334 | 634666 |
| | Frequency | 3480.00 | 3500.01 | 3519.99 |
| 50 | Channel | 631668 | 633334 | 635000 |
| | Frequency | 3475.02 | 3500.01 | 3525.00 |
| 40 | Channel | 631334 | 633334 | 635332 |
| | Frequency | 3470.01 | 3500.01 | 3529.98 |
| 30 | Channel | 631000 | 633334 | 635666 |
| | Frequency | 3465.00 | 3500.01 | 3534.99 |
| 20 | Channel | 630668 | 633334 | 636000 |
| | Frequency | 3460.02 | 3500.01 | 3540.00 |

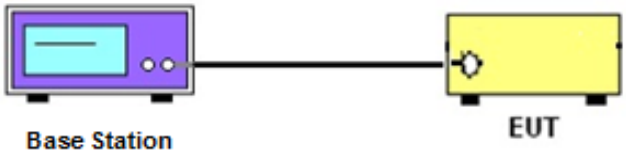
# 3 Conducted Test Items

## 3.1 Measuring Instruments

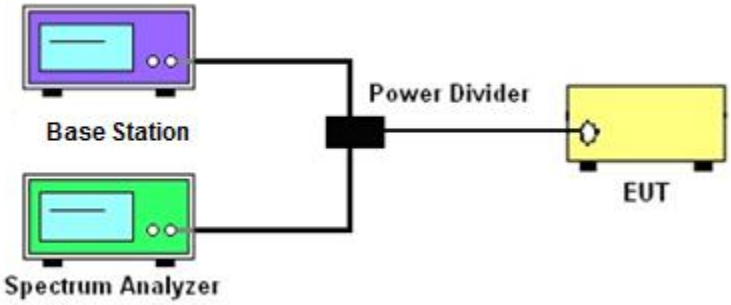
See list of measuring instruments of this test report.

## 3.2 Test Setup

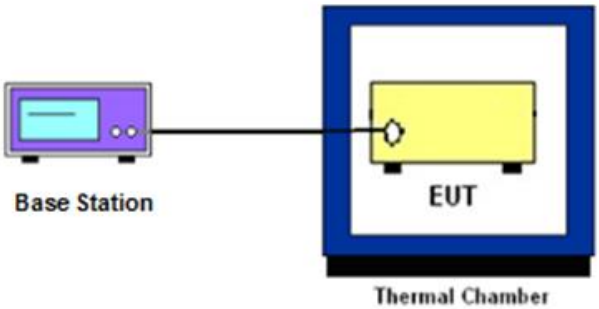
### 3.2.1 Conducted Output Power




### 3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission




### 3.2.3 Frequency Stability




## 3.3 Test Result of Conducted Test

Please refer to Appendix A.

## 3.4 Conducted Output Power Measurement

### 3.4.1 Description of the Conducted Output Power Measurement

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

### 3.4.2 Test Procedures

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

## 3.5 Peak-to-Average Ratio

### 3.5.1 Description of the PAR Measurement

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

### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

# 3.6 EIRP

## 3.6.1 Description of EIRP Limit

**§ 27.50 (k)(3)**

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

## 3.6.2 Test Procedures

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

   $P_T$ = transmitter output power in dBm

   $G_T$ = gain of the transmitting antenna in dBi

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

## 3.7 Occupied Bandwidth

### 3.7.1 Description of Occupied Bandwidth Measurement

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

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

### 3.7.2 Test Procedures

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

## 3.8 Conducted Band Edge Measurement

### 3.8.1 Description of Conducted Band Edge Measurement

**§ 27.53 (n)(2)**

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

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

### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW ≥ 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

## 3.9 Conducted Spurious Emission Measurement

### 3.9.1 Description of Conducted Spurious Emission Measurement

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

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

### 3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

# 3.10 Frequency Stability Measurement

## 3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

## 3.10.2 Test Procedures for Temperature Variation

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

## 3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

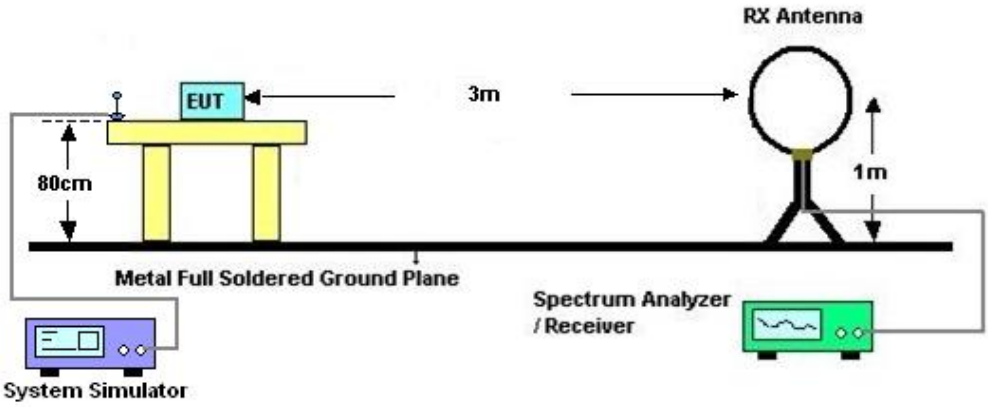
# 4 Radiated Test Items

## 4.1 Measuring Instruments

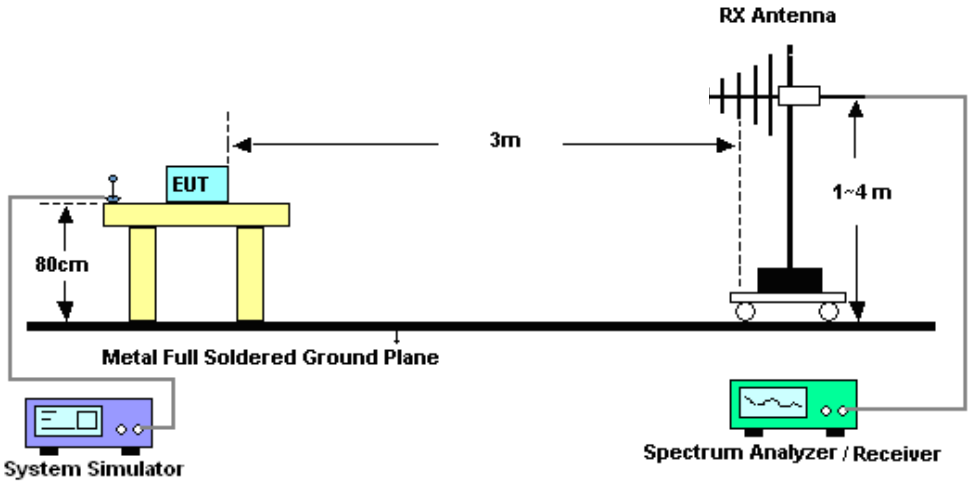
See list of measuring instruments of this test report.

## 4.2 Test Setup

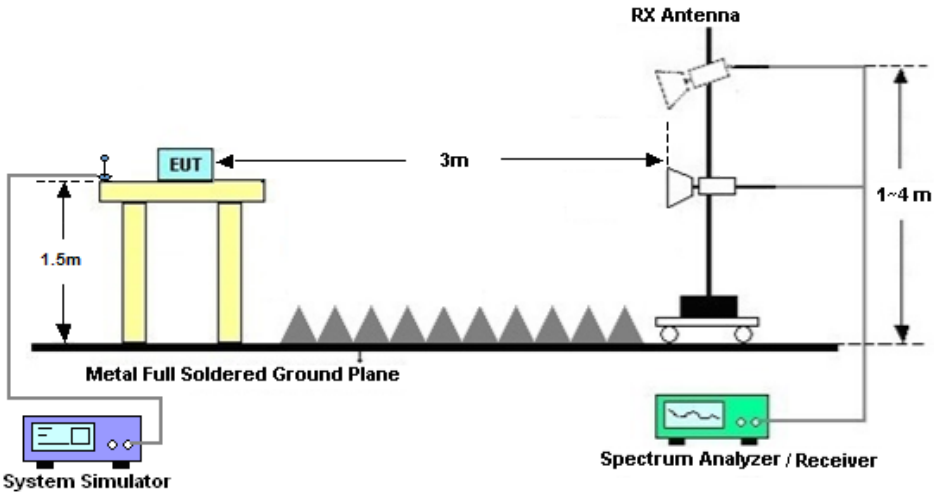
### 4.2.1 For radiated test below 30MHz




### 4.2.2 For radiated test from 30MHz to 1GHz



### 4.2.3 For radiated test above 1GHz




## 4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

## 4.4 Radiated Spurious Emission Measurement

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015. 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 | 101040 | 10Hz~40GHz | Nov. 01, 2020 | Jul. 06, 2021~ Jul. 22, 2021 | Oct. 31, 2021 | Conducted (TH01-KS) |
| Power divider | STI | STI08-0055 | - | 0.5~40GHz | Aug. 27, 2020 | Jul. 06, 2021~ Jul. 22, 2021 | Aug. 26, 2021 | Conducted (TH01-KS) |
| Temperature & humidity chamber | Hongzhan | LP-150U | H2014011440 | -40~+150°C 20%~95%RH | Jul. 02, 2021 | Jul. 06, 2021~ Jul. 22, 2021 | Jul. 01, 2022 | Conducted (TH01-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55150244 | 10Hz-44G,MAX 30dB | Apr. 13, 2021 | Jul. 21, 2021 | Apr. 12, 2022 | Radiation (03CH04-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz~30MHz | Nov. 1, 2020 | Jul. 21, 2021 | Oct. 31, 2021 | Radiation (03CH04-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 49922 | 30MHz-1GHz | Jun. 07, 2021 | Jul. 21, 2021 | Jun. 06, 2022 | Radiation (03CH04-KS) |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1356 | 1GHz~18GHz | Apr. 18, 2021 | Jul. 21, 2021 | Apr. 17, 2022 | Radiation (03CH04-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101115 | 18GHz~40GHz | Jan. 06, 2021 | Jul. 21, 2021 | Jan. 05, 2022 | Radiation (03CH04-KS) |
| Amplifier | SONOMA | 310N | 187289 | 9KHz-1GHz | Jan. 06, 2021 | Jul. 21, 2021 | Jan. 05, 2022 | Radiation (03CH04-KS) |
| Amplifier | MITEQ | EM18G40G GA | 060728 | 18~40GHz | Jan. 07, 2021 | Jul. 21, 2021 | Jan. 06, 2022 | Radiation (03CH04-KS) |
| high gain Amplifier | MITEQ | AMF-7D-00 101800-30-1 0P | 2025788 | 1Ghz-18Ghz | Jan. 06, 2021 | Jul. 21, 2021 | Jan. 05, 2022 | Radiation (03CH04-KS) |
| Amplifier | Keysight | 83017A | MY57280106 | 500MHz~26.5GHz | Oct. 14, 2020 | Jul. 21, 2021 | Oct. 13, 2021 | Radiation (03CH04-KS) |
| AC Power Source | Chroma | 61601 | F104090004 | N/A | NCR | Jul. 21, 2021 | NCR | Radiation (03CH04-KS) |
| Turn Table | ChamPro | EM 1000-T | 060762-T | 0~360 degree | NCR | Jul. 21, 2021 | NCR | Radiation (03CH04-KS) |
| Antenna Mast | ChamPro | EM 1000-A | 060762-A | 1 m~4 m | NCR | Jul. 21, 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

## Conducted Output Power(Average power) and EIRP

Software Version: 21.02.062201

# FR1 N77

## Transmitter Conducted Output Power And ERP/EIRP, ($G_T$ - $L_C$)=-2.0dB

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Conducted Power(dBm) | EIRP (dBm) | EIRP (W) |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.27 | 21.27 | 0.1340 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@49 | 23.37 | 21.37 | 0.1371 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 25@12 | 23.26 | 21.26 | 0.1337 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@1 | 23.39 | 21.39 | 0.1377 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@49 | 23.5 | 21.5 | 0.1413 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 25@12 | 22.33 | 20.33 | 0.1079 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 1@1 | 22.52 | 20.52 | 0.1127 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 1@49 | 22.52 | 20.52 | 0.1127 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 25@12 | 20.75 | 18.75 | 0.0750 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 1@1 | 20.81 | 18.81 | 0.0760 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 1@49 | 20.91 | 18.91 | 0.0778 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 25@12 | 19.06 | 17.06 | 0.0508 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 1@1 | 18.84 | 16.84 | 0.0483 |
| 77 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 1@49 | 18.95 | 16.95 | 0.0495 |
| 77 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 25@121 | 20.48 | 18.48 | 0.0705 |
| 77 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 1@1 | 21.9 | 19.9 | 0.0977 |
| 77 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 1@49 | 21.9 | 19.9 | 0.0977 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.42 | 21.42 | 0.1387 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.52 | 21.52 | 0.1419 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@49 | 23.33 | 21.33 | 0.1358 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 25@12 | 23.29 | 21.29 | 0.1346 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.47 | 21.47 | 0.1403 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@49 | 23.29 | 21.29 | 0.1346 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 25@12 | 22.33 | 20.33 | 0.1079 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.77 | 20.77 | 0.1194 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@49 | 22.42 | 20.42 | 0.1102 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 25@12 | 20.93 | 18.93 | 0.0782 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.97 | 18.97 | 0.0789 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@49 | 21.09 | 19.09 | 0.0811 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 25@12 | 19.13 | 17.13 | 0.0516 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 19.14 | 17.14 | 0.0518 |
| 77 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@49 | 19.13 | 17.13 | 0.0516 |
| 77 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 25@121 | 20.54 | 18.54 | 0.0714 |
| 77 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 22.22 | 20.22 | 0.1052 |
| 77 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 1@49 | 21.99 | 19.99 | 0.0998 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 25@12 | 23.18 | 21.18 | 0.1312 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.18 | 21.18 | 0.1312 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 1@49 | 23.15 | 21.15 | 0.1303 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 25@12 | 23.14 | 21.14 | 0.1300 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 1@1 | 23.12 | 21.12 | 0.1294 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 1@49 | 23.08 | 21.08 | 0.1282 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 25@12 | 22.16 | 20.16 | 0.1038 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 1@1 | 22.37 | 20.37 | 0.1089 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 1@49 | 22.26 | 20.26 | 0.1062 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 25@12 | 20.57 | 18.57 | 0.0719 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 1@1 | 20.87 | 18.87 | 0.0771 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 1@49 | 20.88 | 18.88 | 0.0773 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 25@12 | 18.5 | 16.5 | 0.0447 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 1@1 | 18.92 | 16.92 | 0.0492 |
| 77 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 1@49 | 18.87 | 16.87 | 0.0486 |
| 77 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 25@121 | 20.35 | 18.35 | 0.0684 |
| 77 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 1@1 | 21.7 | 19.7 | 0.0933 |
| 77 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 1@49 | 21.69 | 19.69 | 0.0931 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.67 | 21.67 | 0.1469 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.52 | 21.52 | 0.1419 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 1@76 | 23.5 | 21.5 | 0.1413 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 36@18 | 23.59 | 21.59 | 0.1442 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 1@1 | 23.57 | 21.57 | 0.1435 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 1@76 | 23.54 | 21.54 | 0.1426 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 36@18 | 22.59 | 20.59 | 0.1146 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 1@1 | 22.69 | 20.69 | 0.1172 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 1@76 | 22.73 | 20.73 | 0.1183 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 36@18 | 21.16 | 19.16 | 0.0824 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 1@1 | 21.13 | 19.13 | 0.0818 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 1@76 | 21.06 | 19.06 | 0.0805 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 36@18 | 19.14 | 17.14 | 0.0518 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 1@1 | 19.2 | 17.2 | 0.0525 |
| 77 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 1@76 | 19.1 | 17.1 | 0.0513 |
| 77 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 39@19 | 22.05 | 20.05 | 0.1012 |
| 77 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 1@1 | 22.04 | 20.04 | 0.1009 |
| 77 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 1@76 | 22.07 | 20.07 | 0.1016 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.55 | 21.55 | 0.1429 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.81 | 21.81 | 0.1517 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@76 | 23.42 | 21.42 | 0.1387 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 36@18 | 23.6 | 21.6 | 0.1445 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.86 | 21.86 | 0.1535 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@76 | 23.36 | 21.36 | 0.1368 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 36@18 | 22.61 | 20.61 | 0.1151 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.94 | 20.94 | 0.1242 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@76 | 22.43 | 20.43 | 0.1104 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 36@18 | 21.16 | 19.16 | 0.0824 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 21.31 | 19.31 | 0.0853 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@76 | 20.89 | 18.89 | 0.0774 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 36@18 | 19.21 | 17.21 | 0.0526 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 19.29 | 17.29 | 0.0536 |
| 77 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@76 | 18.91 | 16.91 | 0.0491 |
| 77 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 39@19 | 22.17 | 20.17 | 0.1040 |
| 77 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 22.33 | 20.33 | 0.1079 |
| 77 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 1@76 | 21.86 | 19.86 | 0.0968 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 36@18 | 23.32 | 21.32 | 0.1355 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.4 | 21.4 | 0.1380 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 1@76 | 23.2 | 21.2 | 0.1318 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 36@18 | 23.32 | 21.32 | 0.1355 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 1@1 | 23.41 | 21.41 | 0.1384 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 1@76 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 36@18 | 22.4 | 20.4 | 0.1096 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 1@1 | 22.67 | 20.67 | 0.1167 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 1@76 | 22.48 | 20.48 | 0.1117 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 36@18 | 20.84 | 18.84 | 0.0766 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 1@1 | 20.92 | 18.92 | 0.0780 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 1@76 | 20.67 | 18.67 | 0.0736 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 36@18 | 19.03 | 17.03 | 0.0505 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 1@1 | 19 | 17 | 0.0501 |
| 77 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 1@76 | 18.75 | 16.75 | 0.0473 |
| 77 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 39@19 | 21.88 | 19.88 | 0.0973 |
| 77 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 1@1 | 22.1 | 20.1 | 0.1023 |
| 77 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 1@76 | 21.79 | 19.79 | 0.0953 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.69 | 21.69 | 0.1476 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.51 | 21.51 | 0.1416 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.58 | 21.58 | 0.1439 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 50@25 | 23.61 | 21.61 | 0.1449 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 1@1 | 23.58 | 21.58 | 0.1439 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 1@104 | 23.52 | 21.52 | 0.1419 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 50@25 | 22.65 | 20.65 | 0.1161 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.57 | 20.57 | 0.1140 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 1@104 | 22.65 | 20.65 | 0.1161 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 50@25 | 21.11 | 19.11 | 0.0815 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 1@1 | 21.03 | 19.03 | 0.0800 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 1@104 | 20.99 | 18.99 | 0.0793 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 50@25 | 19.17 | 17.17 | 0.0521 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 1@1 | 19.41 | 17.41 | 0.0551 |
| 77 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 1@104 | 19.14 | 17.14 | 0.0518 |
| 77 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 53@26 | 22.21 | 20.21 | 0.1050 |
| 77 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 1@1 | 22.25 | 20.25 | 0.1059 |
| 77 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 1@104 | 22.19 | 20.19 | 0.1045 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.62 | 21.62 | 0.1452 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.64 | 21.64 | 0.1459 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.26 | 21.26 | 0.1337 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@25 | 23.64 | 21.64 | 0.1459 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.67 | 21.67 | 0.1469 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@104 | 23.3 | 21.3 | 0.1349 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 50@25 | 22.61 | 20.61 | 0.1151 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.75 | 20.75 | 0.1189 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@104 | 22.32 | 20.32 | 0.1076 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 50@25 | 21.14 | 19.14 | 0.0820 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 21.16 | 19.16 | 0.0824 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@104 | 20.85 | 18.85 | 0.0767 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 50@25 | 19.15 | 17.15 | 0.0519 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 19.29 | 17.29 | 0.0536 |
| 77 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@104 | 18.75 | 16.75 | 0.0473 |
| 77 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 53@26 | 22.22 | 20.22 | 0.1052 |
| 77 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 22.41 | 20.41 | 0.1099 |
| 77 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 1@104 | 21.78 | 19.78 | 0.0951 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 50@25 | 23.45 | 21.45 | 0.1396 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.42 | 21.42 | 0.1387 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 1@104 | 23.19 | 21.19 | 0.1315 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 50@25 | 23.37 | 21.37 | 0.1371 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 1@1 | 23.47 | 21.47 | 0.1403 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 1@104 | 23.14 | 21.14 | 0.1300 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 50@25 | 22.46 | 20.46 | 0.1112 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 1@1 | 22.63 | 20.63 | 0.1156 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 1@104 | 22.31 | 20.31 | 0.1074 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 50@25 | 20.98 | 18.98 | 0.0791 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 1@1 | 20.96 | 18.96 | 0.0787 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 1@104 | 20.6 | 18.6 | 0.0724 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 50@25 | 19.06 | 17.06 | 0.0508 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 1@1 | 19.07 | 17.07 | 0.0509 |
| 77 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 1@104 | 19.15 | 17.15 | 0.0519 |
| 77 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 53@26 | 22.01 | 20.01 | 0.1002 |
| 77 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 1@1 | 21.94 | 19.94 | 0.0986 |
| 77 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 1@104 | 21.72 | 19.72 | 0.0938 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 64@32 | 23.49 | 21.49 | 0.1409 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.37 | 21.37 | 0.1371 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 1@131 | 23.38 | 21.38 | 0.1374 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 64@32 | 23.46 | 21.46 | 0.1400 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 1@1 | 23.38 | 21.38 | 0.1374 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 1@131 | 23.32 | 21.32 | 0.1355 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 64@32 | 22.46 | 20.46 | 0.1112 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 1@1 | 22.48 | 20.48 | 0.1117 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 1@131 | 22.6 | 20.6 | 0.1148 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 64@32 | 21.02 | 19.02 | 0.0798 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 1@1 | 20.85 | 18.85 | 0.0767 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 1@131 | 20.85 | 18.85 | 0.0767 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 64@32 | 19 | 17 | 0.0501 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 1@1 | 18.93 | 16.93 | 0.0493 |
| 77 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 1@131 | 18.83 | 16.83 | 0.0482 |
| 77 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 67@33 | 21.98 | 19.98 | 0.0995 |
| 77 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 1@1 | 22.07 | 20.07 | 0.1016 |
| 77 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 1@131 | 21.99 | 19.99 | 0.0998 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 64@32 | 23.48 | 21.48 | 0.1406 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.34 | 21.34 | 0.1361 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@131 | 23.22 | 21.22 | 0.1324 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 64@32 | 23.37 | 21.37 | 0.1371 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.32 | 21.32 | 0.1355 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@131 | 23.14 | 21.14 | 0.1300 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 64@32 | 22.47 | 20.47 | 0.1114 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.53 | 20.53 | 0.1130 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@131 | 22.43 | 20.43 | 0.1104 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 64@32 | 20.93 | 18.93 | 0.0782 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.95 | 18.95 | 0.0785 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@131 | 20.56 | 18.56 | 0.0718 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 64@32 | 18.98 | 16.98 | 0.0499 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 19.03 | 17.03 | 0.0505 |
| 77 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@131 | 18.65 | 16.65 | 0.0462 |
| 77 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 67@33 | 21.99 | 19.99 | 0.0998 |
| 77 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.95 | 19.95 | 0.0989 |
| 77 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 1@131 | 21.89 | 19.89 | 0.0975 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 64@32 | 23.23 | 21.23 | 0.1327 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.26 | 21.26 | 0.1337 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 1@131 | 23.12 | 21.12 | 0.1294 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 64@32 | 23.23 | 21.23 | 0.1327 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 1@1 | 23.22 | 21.22 | 0.1324 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 1@131 | 23.17 | 21.17 | 0.1309 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 64@32 | 22.22 | 20.22 | 0.1052 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 1@1 | 22.34 | 20.34 | 0.1081 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 1@131 | 22.26 | 20.26 | 0.1062 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 64@32 | 20.69 | 18.69 | 0.0740 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 1@1 | 20.63 | 18.63 | 0.0729 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 1@131 | 20.57 | 18.57 | 0.0719 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 64@32 | 18.76 | 16.76 | 0.0474 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 1@1 | 18.72 | 16.72 | 0.0470 |
| 77 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 1@131 | 18.57 | 16.57 | 0.0454 |
| 77 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 67@33 | 21.66 | 19.66 | 0.0925 |
| 77 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 1@1 | 21.96 | 19.96 | 0.0991 |
| 77 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 1@131 | 21.8 | 19.8 | 0.0955 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 81@40 | 23.47 | 21.47 | 0.1403 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.25 | 21.25 | 0.1334 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 1@160 | 23.29 | 21.29 | 0.1346 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 81@40 | 23.54 | 21.54 | 0.1426 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 1@1 | 23.3 | 21.3 | 0.1349 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 1@160 | 23.39 | 21.39 | 0.1377 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 81@40 | 22.53 | 20.53 | 0.1130 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 1@1 | 22.45 | 20.45 | 0.1109 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 1@160 | 22.49 | 20.49 | 0.1119 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 81@40 | 21.01 | 19.01 | 0.0796 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 1@1 | 20.77 | 18.77 | 0.0753 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 1@160 | 20.88 | 18.88 | 0.0773 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 81@40 | 18.91 | 16.91 | 0.0491 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 1@1 | 18.78 | 16.78 | 0.0476 |
| 77 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 1@160 | 19.05 | 17.05 | 0.0507 |
| 77 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 81@40 | 22.01 | 20.01 | 0.1002 |
| 77 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 1@1 | 22.04 | 20.04 | 0.1009 |
| 77 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 1@160 | 21.9 | 19.9 | 0.0977 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 81@40 | 23.41 | 21.41 | 0.1384 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@160 | 23.2 | 21.2 | 0.1318 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 81@40 | 23.39 | 21.39 | 0.1377 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.42 | 21.42 | 0.1387 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@160 | 23.26 | 21.26 | 0.1337 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 81@40 | 22.46 | 20.46 | 0.1112 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.49 | 20.49 | 0.1119 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@160 | 22.43 | 20.43 | 0.1104 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 81@40 | 20.93 | 18.93 | 0.0782 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.95 | 18.95 | 0.0785 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@160 | 20.79 | 18.79 | 0.0757 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 81@40 | 19.17 | 17.17 | 0.0521 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.82 | 16.82 | 0.0481 |
| 77 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@160 | 18.81 | 16.81 | 0.0480 |
| 77 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 81@40 | 21.95 | 19.95 | 0.0989 |
| 77 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.9 | 19.9 | 0.0977 |
| 77 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 1@160 | 21.75 | 19.75 | 0.0944 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM PI/2 BPSK | 81@40 | 23.14 | 21.14 | 0.1300 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.4 | 21.4 | 0.1380 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM PI/2 BPSK | 1@160 | 23.13 | 21.13 | 0.1297 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 81@40 | 23.2 | 21.2 | 0.1318 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 1@1 | 23.49 | 21.49 | 0.1409 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 1@160 | 23.17 | 21.17 | 0.1309 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 81@40 | 22.28 | 20.28 | 0.1067 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 1@1 | 22.58 | 20.58 | 0.1143 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 1@160 | 22.29 | 20.29 | 0.1069 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 81@40 | 20.76 | 18.76 | 0.0752 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 1@1 | 21.04 | 19.04 | 0.0802 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 1@160 | 20.62 | 18.62 | 0.0728 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 81@40 | 18.73 | 16.73 | 0.0471 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 1@1 | 18.91 | 16.91 | 0.0491 |
| 77 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 1@160 | 18.69 | 16.69 | 0.0467 |
| 77 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 81@40 | 21.71 | 19.71 | 0.0935 |
| 77 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 1@1 | 21.97 | 19.97 | 0.0993 |
| 77 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 1@160 | 21.74 | 19.74 | 0.0942 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 90@45 | 23.31 | 21.31 | 0.1352 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.09 | 21.09 | 0.1285 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 1@187 | 23.04 | 21.04 | 0.1271 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 90@45 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 1@1 | 23.06 | 21.06 | 0.1276 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 1@187 | 22.95 | 20.95 | 0.1245 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 90@45 | 22.24 | 20.24 | 0.1057 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.24 | 20.24 | 0.1057 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 1@187 | 22.15 | 20.15 | 0.1035 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 90@45 | 20.86 | 18.86 | 0.0769 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.46 | 18.46 | 0.0701 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 1@187 | 20.44 | 18.44 | 0.0698 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 90@45 | 18.8 | 16.8 | 0.0479 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.75 | 16.75 | 0.0473 |
| 77 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 1@187 | 18.64 | 16.64 | 0.0461 |
| 77 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 95@47 | 21.76 | 19.76 | 0.0946 |
| 77 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 1@1 | 21.83 | 19.83 | 0.0962 |
| 77 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 1@187 | 21.84 | 19.84 | 0.0964 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 90@45 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.16 | 21.16 | 0.1306 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@187 | 23.05 | 21.05 | 0.1274 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 90@45 | 23.27 | 21.27 | 0.1340 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.21 | 21.21 | 0.1321 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@187 | 23.09 | 21.09 | 0.1285 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 90@45 | 22.3 | 20.3 | 0.1072 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.52 | 20.52 | 0.1127 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@187 | 22.2 | 20.2 | 0.1047 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 90@45 | 20.81 | 18.81 | 0.0760 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.68 | 18.68 | 0.0738 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@187 | 20.66 | 18.66 | 0.0735 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 90@45 | 18.88 | 16.88 | 0.0488 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.77 | 16.77 | 0.0475 |
| 77 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@187 | 18.78 | 16.78 | 0.0476 |
| 77 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 95@47 | 21.77 | 19.77 | 0.0948 |
| 77 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.93 | 19.93 | 0.0984 |
| 77 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 1@187 | 21.92 | 19.92 | 0.0982 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM PI/2 BPSK | 90@45 | 23.19 | 21.19 | 0.1315 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.22 | 21.22 | 0.1324 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM PI/2 BPSK | 1@187 | 22.97 | 20.97 | 0.1250 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM QPSK | 90@45 | 23.14 | 21.14 | 0.1300 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM QPSK | 1@1 | 23.29 | 21.29 | 0.1346 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM QPSK | 1@187 | 23.05 | 21.05 | 0.1274 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 16 QAM | 90@45 | 22.19 | 20.19 | 0.1045 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 16 QAM | 1@1 | 22.31 | 20.31 | 0.1074 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 16 QAM | 1@187 | 22.15 | 20.15 | 0.1035 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 64 QAM | 90@45 | 20.68 | 18.68 | 0.0738 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 64 QAM | 1@1 | 20.73 | 18.73 | 0.0746 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 64 QAM | 1@187 | 20.58 | 18.58 | 0.0721 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 256 QAM | 90@45 | 18.81 | 16.81 | 0.0480 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 256 QAM | 1@1 | 18.73 | 16.73 | 0.0471 |
| 77 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 256 QAM | 1@187 | 18.69 | 16.69 | 0.0467 |
| 77 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 95@47 | 21.67 | 19.67 | 0.0927 |
| 77 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 1@1 | 22 | 20 | 0.1000 |
| 77 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 1@187 | 21.66 | 19.66 | 0.0925 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.06 | 21.06 | 0.1276 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM PI/2 BPSK | 1@215 | 22.96 | 20.96 | 0.1247 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 108@54 | 23.21 | 21.21 | 0.1321 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 1@1 | 23.16 | 21.16 | 0.1306 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 1@215 | 22.9 | 20.9 | 0.1230 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 108@54 | 22.23 | 20.23 | 0.1054 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 1@1 | 22.29 | 20.29 | 0.1069 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 1@215 | 22.07 | 20.07 | 0.1016 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 108@54 | 20.71 | 18.71 | 0.0743 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 1@1 | 20.52 | 18.52 | 0.0711 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 1@215 | 20.4 | 18.4 | 0.0692 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 108@54 | 18.75 | 16.75 | 0.0473 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 1@1 | 18.6 | 16.6 | 0.0457 |
| 77 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 1@215 | 18.62 | 16.62 | 0.0459 |
| 77 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 109@54 | 21.73 | 19.73 | 0.0940 |
| 77 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 1@1 | 21.59 | 19.59 | 0.0910 |
| 77 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 1@215 | 21.58 | 19.58 | 0.0908 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.36 | 21.36 | 0.1368 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.22 | 21.22 | 0.1324 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@215 | 23.09 | 21.09 | 0.1285 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 108@54 | 23.32 | 21.32 | 0.1355 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.25 | 21.25 | 0.1334 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@215 | 23.05 | 21.05 | 0.1274 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 108@54 | 22.32 | 20.32 | 0.1076 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.3 | 20.3 | 0.1072 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@215 | 22.15 | 20.15 | 0.1035 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 108@54 | 20.84 | 18.84 | 0.0766 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.65 | 18.65 | 0.0733 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@215 | 20.59 | 18.59 | 0.0723 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 108@54 | 18.96 | 16.96 | 0.0497 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 19.07 | 17.07 | 0.0509 |
| 77 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@215 | 19 | 17 | 0.0501 |
| 77 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 109@54 | 21.83 | 19.83 | 0.0962 |
| 77 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.78 | 19.78 | 0.0951 |
| 77 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 1@215 | 21.63 | 19.63 | 0.0918 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 108@54 | 23.14 | 21.14 | 0.1300 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.19 | 21.19 | 0.1315 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 1@215 | 22.93 | 20.93 | 0.1239 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 108@54 | 23.18 | 21.18 | 0.1312 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 1@1 | 23.28 | 21.28 | 0.1343 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 1@215 | 22.9 | 20.9 | 0.1230 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 108@54 | 22.27 | 20.27 | 0.1064 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 1@1 | 22.44 | 20.44 | 0.1107 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 1@215 | 22.14 | 20.14 | 0.1033 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 108@54 | 20.71 | 18.71 | 0.0743 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 1@1 | 20.69 | 18.69 | 0.0740 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 1@215 | 20.41 | 18.41 | 0.0693 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 108@54 | 18.83 | 16.83 | 0.0482 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 1@1 | 18.89 | 16.89 | 0.0489 |
| 77 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 1@215 | 18.62 | 16.62 | 0.0459 |
| 77 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 109@54 | 21.64 | 19.64 | 0.0920 |
| 77 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 1@1 | 21.76 | 19.76 | 0.0946 |
| 77 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 1@215 | 21.57 | 19.57 | 0.0906 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM PI/2 BPSK | 120@60 | 23.23 | 21.23 | 0.1327 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.22 | 21.22 | 0.1324 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM PI/2 BPSK | 1@243 | 22.98 | 20.98 | 0.1253 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM QPSK | 120@60 | 23.25 | 21.25 | 0.1334 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM QPSK | 1@1 | 23.27 | 21.27 | 0.1340 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM QPSK | 1@243 | 22.96 | 20.96 | 0.1247 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 16 QAM | 120@60 | 22.29 | 20.29 | 0.1069 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 16 QAM | 1@1 | 22.53 | 20.53 | 0.1130 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 16 QAM | 1@243 | 22.06 | 20.06 | 0.1014 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 64 QAM | 120@60 | 20.74 | 18.74 | 0.0748 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 64 QAM | 1@1 | 20.69 | 18.69 | 0.0740 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 64 QAM | 1@243 | 20.55 | 18.55 | 0.0716 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 256 QAM | 120@60 | 18.86 | 16.86 | 0.0485 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 256 QAM | 1@1 | 18.82 | 16.82 | 0.0481 |
| 77 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 256 QAM | 1@243 | 18.8 | 16.8 | 0.0479 |
| 77 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 123@61 | 21.79 | 19.79 | 0.0953 |
| 77 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 1@1 | 21.74 | 19.74 | 0.0942 |
| 77 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 1@243 | 21.49 | 19.49 | 0.0889 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 120@60 | 23.3 | 21.3 | 0.1349 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.21 | 21.21 | 0.1321 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@243 | 23.09 | 21.09 | 0.1285 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 120@60 | 23.25 | 21.25 | 0.1334 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.26 | 21.26 | 0.1337 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@243 | 22.94 | 20.94 | 0.1242 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 120@60 | 22.31 | 20.31 | 0.1074 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.43 | 20.43 | 0.1104 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@243 | 22.28 | 20.28 | 0.1067 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 120@60 | 20.78 | 18.78 | 0.0755 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.72 | 18.72 | 0.0745 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@243 | 20.5 | 18.5 | 0.0708 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 120@60 | 19.18 | 17.18 | 0.0522 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.79 | 16.79 | 0.0478 |
| 77 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@243 | 18.84 | 16.84 | 0.0483 |
| 77 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 123@61 | 21.82 | 19.82 | 0.0959 |
| 77 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 22.04 | 20.04 | 0.1009 |
| 77 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 1@243 | 21.64 | 19.64 | 0.0920 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 120@60 | 23.31 | 21.31 | 0.1352 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.23 | 21.23 | 0.1327 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 1@243 | 23 | 21 | 0.1259 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 120@60 | 23.18 | 21.18 | 0.1312 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 1@1 | 23.31 | 21.31 | 0.1352 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 1@243 | 22.94 | 20.94 | 0.1242 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 120@60 | 22.23 | 20.23 | 0.1054 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 1@1 | 22.44 | 20.44 | 0.1107 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 1@243 | 22.17 | 20.17 | 0.1040 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 120@60 | 20.69 | 18.69 | 0.0740 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 1@1 | 20.77 | 18.77 | 0.0753 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 1@243 | 20.53 | 18.53 | 0.0713 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 120@60 | 18.91 | 16.91 | 0.0491 |

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|---|---|---|---|---|---|---|---|---|---|
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 1@1 | 18.88 | 16.88 | 0.0488 |
| 77 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 1@243 | 18.88 | 16.88 | 0.0488 |
| 77 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 123@61 | 21.76 | 19.76 | 0.0946 |
| 77 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 1@1 | 21.75 | 19.75 | 0.0944 |
| 77 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 1@243 | 21.48 | 19.48 | 0.0887 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 135@67 | 23.33 | 21.33 | 0.1358 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.25 | 21.25 | 0.1334 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@271 | 22.97 | 20.97 | 0.1250 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 135@67 | 23.88 | 21.88 | 0.1542 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 23.27 | 21.27 | 0.1340 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@271 | 22.92 | 20.92 | 0.1236 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 135@67 | 22.28 | 20.28 | 0.1067 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 22.43 | 20.43 | 0.1104 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@271 | 22.13 | 20.13 | 0.1030 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 135@67 | 20.8 | 18.8 | 0.0759 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 20.72 | 18.72 | 0.0745 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@271 | 20.43 | 18.43 | 0.0697 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 135@67 | 18.94 | 16.94 | 0.0494 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 18.84 | 16.84 | 0.0483 |
| 77 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@271 | 18.62 | 16.62 | 0.0459 |
| 77 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 137@68 | 21.78 | 19.78 | 0.0951 |
| 77 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 21.82 | 19.82 | 0.0959 |
| 77 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 1@271 | 21.55 | 19.55 | 0.0902 |

Software Version: 21.02.062201

# FR1 N78

## Transmitter Conducted Output Power And ERP/EIRP, ($G_T$ - $L_C$)=-2dB

| 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 | 26.35 | 24.35 | 0.2723 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.2 | 24.2 | 0.2630 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@49 | 26.4 | 24.4 | 0.2754 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 25@12 | 26.24 | 24.24 | 0.2655 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@1 | 26.39 | 24.39 | 0.2748 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@49 | 26.47 | 24.47 | 0.2799 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 25@12 | 25.32 | 23.32 | 0.2148 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 1@1 | 25.35 | 23.35 | 0.2163 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 16 QAM | 1@49 | 25.42 | 23.42 | 0.2198 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 25@12 | 23.84 | 21.84 | 0.1528 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 1@1 | 24.08 | 22.08 | 0.1614 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 64 QAM | 1@49 | 24.17 | 22.17 | 0.1648 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 25@12 | 21.84 | 19.84 | 0.0964 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 1@1 | 21.63 | 19.63 | 0.0918 |
| 78 | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM 256 QAM | 1@49 | 21.8 | 19.8 | 0.0955 |
| 78 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 25@121 | 23.31 | 21.31 | 0.1352 |
| 78 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 1@1 | 25 | 23 | 0.1995 |
| 78 | 30 | 20 | 630668 | 3460.02 | CP-OFDM QPSK | 1@49 | 24.99 | 22.99 | 0.1991 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 25@12 | 26.48 | 24.48 | 0.2805 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.58 | 24.58 | 0.2871 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@49 | 26.24 | 24.24 | 0.2655 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 25@12 | 26.31 | 24.31 | 0.2698 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.55 | 24.55 | 0.2851 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@49 | 26.5 | 24.5 | 0.2818 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 25@12 | 25.43 | 23.43 | 0.2203 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.56 | 23.56 | 0.2270 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@49 | 25.55 | 23.55 | 0.2265 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 25@12 | 24 | 22 | 0.1585 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 24.3 | 22.3 | 0.1698 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@49 | 24.31 | 22.31 | 0.1702 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 25@12 | 21.9 | 19.9 | 0.0977 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 22.04 | 20.04 | 0.1009 |
| 78 | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@49 | 21.84 | 19.84 | 0.0964 |
| 78 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 25@121 | 23.44 | 21.44 | 0.1393 |
| 78 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 25.08 | 23.08 | 0.2032 |
| 78 | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 1@49 | 24.88 | 22.88 | 0.1941 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 25@12 | 26.18 | 24.18 | 0.2618 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.17 | 24.17 | 0.2612 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM PI/2 BPSK | 1@49 | 26.31 | 24.31 | 0.2698 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 25@12 | 26.26 | 24.26 | 0.2667 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 1@1 | 26.12 | 24.12 | 0.2582 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM QPSK | 1@49 | 26.33 | 24.33 | 0.2710 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 25@12 | 25.45 | 23.45 | 0.2213 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 1@1 | 25.45 | 23.45 | 0.2213 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 16 QAM | 1@49 | 25.41 | 23.41 | 0.2193 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 25@12 | 23.72 | 21.72 | 0.1486 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 1@1 | 23.71 | 21.71 | 0.1483 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 64 QAM | 1@49 | 23.8 | 21.8 | 0.1514 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 25@12 | 21.83 | 19.83 | 0.0962 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 1@1 | 21.76 | 19.76 | 0.0946 |
| 78 | 30 | 20 | 636000 | 3540 | DFT-s-OFDM 256 QAM | 1@49 | 21.73 | 19.73 | 0.0940 |
| 78 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 25@121 | 23.24 | 21.24 | 0.1330 |
| 78 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 1@1 | 24.8 | 22.8 | 0.1905 |
| 78 | 30 | 20 | 636000 | 3540 | CP-OFDM QPSK | 1@49 | 24.8 | 22.8 | 0.1905 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 36@18 | 26.57 | 24.57 | 0.2864 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.46 | 24.46 | 0.2793 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM PI/2 BPSK | 1@76 | 26.58 | 24.58 | 0.2871 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 36@18 | 26.42 | 24.42 | 0.2767 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 1@1 | 26.42 | 24.42 | 0.2767 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM QPSK | 1@76 | 26.49 | 24.49 | 0.2812 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 36@18 | 25.49 | 23.49 | 0.2234 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 1@1 | 25.62 | 23.62 | 0.2301 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 16 QAM | 1@76 | 25.73 | 23.73 | 0.2360 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 36@18 | 23.96 | 21.96 | 0.1570 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 1@1 | 23.94 | 21.94 | 0.1563 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 64 QAM | 1@76 | 23.91 | 21.91 | 0.1552 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 36@18 | 22.05 | 20.05 | 0.1012 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 1@1 | 21.88 | 19.88 | 0.0973 |
| 78 | 30 | 30 | 631000 | 3465 | DFT-s-OFDM 256 QAM | 1@76 | 22.08 | 20.08 | 0.1019 |
| 78 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 39@19 | 24.97 | 22.97 | 0.1982 |
| 78 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 1@1 | 24.98 | 22.98 | 0.1986 |
| 78 | 30 | 30 | 631000 | 3465 | CP-OFDM QPSK | 1@76 | 25.07 | 23.07 | 0.2028 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 36@18 | 26.46 | 24.46 | 0.2793 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.72 | 24.72 | 0.2965 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@76 | 26.3 | 24.3 | 0.2692 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 36@18 | 26.49 | 24.49 | 0.2812 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.72 | 24.72 | 0.2965 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@76 | 26.55 | 24.55 | 0.2851 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 36@18 | 25.43 | 23.43 | 0.2203 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.74 | 23.74 | 0.2366 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@76 | 25.55 | 23.55 | 0.2265 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 36@18 | 24.09 | 22.09 | 0.1618 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 24.18 | 22.18 | 0.1652 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@76 | 23.94 | 21.94 | 0.1563 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 36@18 | 21.93 | 19.93 | 0.0984 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 22.11 | 20.11 | 0.1026 |
| 78 | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@76 | 21.81 | 19.81 | 0.0957 |
| 78 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 39@19 | 24.96 | 22.96 | 0.1977 |
| 78 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 25.19 | 23.19 | 0.2084 |
| 78 | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 1@76 | 24.86 | 22.86 | 0.1932 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 36@18 | 26.44 | 24.44 | 0.2780 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.5 | 24.5 | 0.2818 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM PI/2 BPSK | 1@76 | 26.28 | 24.28 | 0.2679 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 36@18 | 26.23 | 24.23 | 0.2649 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 1@1 | 26.58 | 24.58 | 0.2871 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM QPSK | 1@76 | 26.53 | 24.53 | 0.2838 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 36@18 | 25.31 | 23.31 | 0.2143 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 1@1 | 25.52 | 23.52 | 0.2249 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 16 QAM | 1@76 | 25.45 | 23.45 | 0.2213 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 36@18 | 23.85 | 21.85 | 0.1531 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 1@1 | 23.96 | 21.96 | 0.1570 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 64 QAM | 1@76 | 23.96 | 21.96 | 0.1570 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 36@18 | 21.77 | 19.77 | 0.0948 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 1@1 | 21.9 | 19.9 | 0.0977 |
| 78 | 30 | 30 | 635666 | 3534.99 | DFT-s-OFDM 256 QAM | 1@76 | 21.8 | 19.8 | 0.0955 |
| 78 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 39@19 | 24.94 | 22.94 | 0.1968 |
| 78 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 1@1 | 24.95 | 22.95 | 0.1972 |
| 78 | 30 | 30 | 635666 | 3534.99 | CP-OFDM QPSK | 1@76 | 24.99 | 22.99 | 0.1991 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 50@25 | 26.58 | 24.58 | 0.2871 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.43 | 24.43 | 0.2773 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM PI/2 BPSK | 1@104 | 26.74 | 24.74 | 0.2979 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 50@25 | 26.42 | 24.42 | 0.2767 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 1@1 | 26.42 | 24.42 | 0.2767 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM QPSK | 1@104 | 26.63 | 24.63 | 0.2904 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 50@25 | 25.44 | 23.44 | 0.2208 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.8 | 23.8 | 0.2399 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 16 QAM | 1@104 | 25.91 | 23.91 | 0.2460 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 50@25 | 24.05 | 22.05 | 0.1603 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 1@1 | 24.22 | 22.22 | 0.1667 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 64 QAM | 1@104 | 24.24 | 22.24 | 0.1675 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 50@25 | 22.03 | 20.03 | 0.1007 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 1@1 | 22.06 | 20.06 | 0.1014 |
| 78 | 30 | 40 | 631334 | 3470.01 | DFT-s-OFDM 256 QAM | 1@104 | 22.18 | 20.18 | 0.1042 |
| 78 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 53@26 | 25.22 | 23.22 | 0.2099 |
| 78 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 1@1 | 25.26 | 23.26 | 0.2118 |
| 78 | 30 | 40 | 631334 | 3470.01 | CP-OFDM QPSK | 1@104 | 25.23 | 23.23 | 0.2104 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 50@25 | 26.42 | 24.42 | 0.2767 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.57 | 24.57 | 0.2864 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@104 | 26.39 | 24.39 | 0.2748 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@25 | 26.45 | 24.45 | 0.2786 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.64 | 24.64 | 0.2911 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@104 | 26.51 | 24.51 | 0.2825 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 50@25 | 25.71 | 23.71 | 0.2350 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.81 | 23.81 | 0.2404 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@104 | 25.59 | 23.59 | 0.2286 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 50@25 | 24.18 | 22.18 | 0.1652 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 24.18 | 22.18 | 0.1652 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@104 | 23.97 | 21.97 | 0.1574 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 50@25 | 22.02 | 20.02 | 0.1005 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 22.32 | 20.32 | 0.1076 |
| 78 | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@104 | 21.93 | 19.93 | 0.0984 |
| 78 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 53@26 | 24.95 | 22.95 | 0.1972 |
| 78 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 25.36 | 23.36 | 0.2168 |
| 78 | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 1@104 | 25.05 | 23.05 | 0.2018 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 50@25 | 26.49 | 24.49 | 0.2812 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.55 | 24.55 | 0.2851 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM PI/2 BPSK | 1@104 | 26.42 | 24.42 | 0.2767 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 50@25 | 26.33 | 24.33 | 0.2710 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 1@1 | 26.62 | 24.62 | 0.2897 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM QPSK | 1@104 | 26.49 | 24.49 | 0.2812 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 50@25 | 25.65 | 23.65 | 0.2317 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 1@1 | 25.81 | 23.81 | 0.2404 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 16 QAM | 1@104 | 25.79 | 23.79 | 0.2393 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 50@25 | 23.97 | 21.97 | 0.1574 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 1@1 | 24.36 | 22.36 | 0.1722 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 64 QAM | 1@104 | 24.17 | 22.17 | 0.1648 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 50@25 | 21.85 | 19.85 | 0.0966 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 1@1 | 21.98 | 19.98 | 0.0995 |
| 78 | 30 | 40 | 635332 | 3529.98 | DFT-s-OFDM 256 QAM | 1@104 | 21.95 | 19.95 | 0.0989 |
| 78 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 53@26 | 25 | 23 | 0.1995 |
| 78 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 1@1 | 25.14 | 23.14 | 0.2061 |
| 78 | 30 | 40 | 635332 | 3529.98 | CP-OFDM QPSK | 1@104 | 25.09 | 23.09 | 0.2037 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 64@32 | 26.33 | 24.33 | 0.2710 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.22 | 24.22 | 0.2642 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM PI/2 BPSK | 1@131 | 26.21 | 24.21 | 0.2636 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 64@32 | 26.22 | 24.22 | 0.2642 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 1@1 | 26.16 | 24.16 | 0.2606 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM QPSK | 1@131 | 26.28 | 24.28 | 0.2679 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 64@32 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 1@1 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 16 QAM | 1@131 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 64@32 | 23.85 | 21.85 | 0.1531 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 1@1 | 23.68 | 21.68 | 0.1472 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 64 QAM | 1@131 | 23.56 | 21.56 | 0.1432 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 64@32 | 22.26 | 20.26 | 0.1062 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 1@1 | 22.15 | 20.15 | 0.1035 |
| 78 | 30 | 50 | 631668 | 3475.02 | DFT-s-OFDM 256 QAM | 1@131 | 21.21 | 19.21 | 0.0834 |
| 78 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 67@33 | 24.77 | 22.77 | 0.1892 |
| 78 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 1@1 | 24.87 | 22.87 | 0.1936 |
| 78 | 30 | 50 | 631668 | 3475.02 | CP-OFDM QPSK | 1@131 | 24.9 | 22.9 | 0.1950 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 64@32 | 26.3 | 24.3 | 0.2692 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.2 | 24.2 | 0.2630 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@131 | 25.99 | 23.99 | 0.2506 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 64@32 | 26.27 | 24.27 | 0.2673 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.33 | 24.33 | 0.2710 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@131 | 26.14 | 24.14 | 0.2594 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 64@32 | 25.33 | 23.33 | 0.2153 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@131 | 25.24 | 23.24 | 0.2109 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 64@32 | 23.85 | 21.85 | 0.1531 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.62 | 21.62 | 0.1452 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@131 | 23.42 | 21.42 | 0.1387 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 64@32 | 21.34 | 19.34 | 0.0859 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 21.29 | 19.29 | 0.0849 |
| 78 | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@131 | 21.46 | 19.46 | 0.0883 |
| 78 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 67@33 | 24.76 | 22.76 | 0.1888 |
| 78 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 24.82 | 22.82 | 0.1914 |
| 78 | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 1@131 | 24.69 | 22.69 | 0.1858 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 64@32 | 26.1 | 24.1 | 0.2570 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.15 | 24.15 | 0.2600 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM PI/2 BPSK | 1@131 | 26.05 | 24.05 | 0.2541 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 64@32 | 26.05 | 24.05 | 0.2541 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 1@1 | 26.24 | 24.24 | 0.2655 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM QPSK | 1@131 | 26.1 | 24.1 | 0.2570 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 64@32 | 25.18 | 23.18 | 0.2080 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 1@1 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 16 QAM | 1@131 | 25.21 | 23.21 | 0.2094 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 64@32 | 23.57 | 21.57 | 0.1435 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 1@1 | 23.63 | 21.63 | 0.1455 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 64 QAM | 1@131 | 23.44 | 21.44 | 0.1393 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 64@32 | 21.15 | 19.15 | 0.0822 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 1@1 | 21.28 | 19.28 | 0.0847 |
| 78 | 30 | 50 | 635000 | 3525 | DFT-s-OFDM 256 QAM | 1@131 | 21.21 | 19.21 | 0.0834 |
| 78 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 67@33 | 24.61 | 22.61 | 0.1824 |
| 78 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 1@1 | 24.76 | 22.76 | 0.1888 |
| 78 | 30 | 50 | 635000 | 3525 | CP-OFDM QPSK | 1@131 | 24.54 | 22.54 | 0.1795 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 81@40 | 26.31 | 24.31 | 0.2698 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.18 | 24.18 | 0.2618 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM PI/2 BPSK | 1@160 | 26.05 | 24.05 | 0.2541 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 81@40 | 26.24 | 24.24 | 0.2655 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 1@1 | 26.29 | 24.29 | 0.2685 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM QPSK | 1@160 | 26.14 | 24.14 | 0.2594 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 81@40 | 25.24 | 23.24 | 0.2109 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 1@1 | 25.22 | 23.22 | 0.2099 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 16 QAM | 1@160 | 25.1 | 23.1 | 0.2042 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 81@40 | 23.77 | 21.77 | 0.1503 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 1@1 | 23.71 | 21.71 | 0.1483 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 64 QAM | 1@160 | 23.57 | 21.57 | 0.1435 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 81@40 | 21.53 | 19.53 | 0.0897 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 1@1 | 21.69 | 19.69 | 0.0931 |
| 78 | 30 | 60 | 632000 | 3480 | DFT-s-OFDM 256 QAM | 1@160 | 21.87 | 19.87 | 0.0971 |
| 78 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 81@40 | 24.87 | 22.87 | 0.1936 |
| 78 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 1@1 | 24.78 | 22.78 | 0.1897 |
| 78 | 30 | 60 | 632000 | 3480 | CP-OFDM QPSK | 1@160 | 24.52 | 22.52 | 0.1786 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 81@40 | 26.29 | 24.29 | 0.2685 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.22 | 24.22 | 0.2642 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@160 | 25.95 | 23.95 | 0.2483 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 81@40 | 26.27 | 24.27 | 0.2673 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.34 | 24.34 | 0.2716 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@160 | 26.09 | 24.09 | 0.2564 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 81@40 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.36 | 23.36 | 0.2168 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@160 | 25.13 | 23.13 | 0.2056 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 81@40 | 23.86 | 21.86 | 0.1535 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.74 | 21.74 | 0.1493 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@160 | 23.51 | 21.51 | 0.1416 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 81@40 | 22.29 | 20.29 | 0.1069 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 21.7 | 19.7 | 0.0933 |
| 78 | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@160 | 21.08 | 19.08 | 0.0809 |
| 78 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 81@40 | 24.8 | 22.8 | 0.1905 |
| 78 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 24.72 | 22.72 | 0.1871 |
| 78 | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 1@160 | 24.6 | 22.6 | 0.1820 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM PI/2 BPSK | 81@40 | 26.02 | 24.02 | 0.2523 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.4 | 24.4 | 0.2754 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM PI/2 BPSK | 1@160 | 25.93 | 23.93 | 0.2472 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 81@40 | 25.99 | 23.99 | 0.2506 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 1@1 | 26.44 | 24.44 | 0.2780 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM QPSK | 1@160 | 25.9 | 23.9 | 0.2455 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 81@40 | 25.11 | 23.11 | 0.2046 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 1@1 | 25.32 | 23.32 | 0.2148 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 16 QAM | 1@160 | 25 | 23 | 0.1995 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 81@40 | 23.65 | 21.65 | 0.1462 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 1@1 | 23.41 | 21.41 | 0.1384 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 64 QAM | 1@160 | 23.41 | 21.41 | 0.1384 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 81@40 | 22.07 | 20.07 | 0.1016 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 1@1 | 21.97 | 19.97 | 0.0993 |
| 78 | 30 | 60 | 634666 | 3519.99 | DFT-s-OFDM 256 QAM | 1@160 | 21.94 | 19.94 | 0.0986 |
| 78 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 81@40 | 24.63 | 22.63 | 0.1832 |
| 78 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 1@1 | 24.81 | 22.81 | 0.1910 |
| 78 | 30 | 60 | 634666 | 3519.99 | CP-OFDM QPSK | 1@160 | 24.43 | 22.43 | 0.1750 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 90@45 | 26.15 | 24.15 | 0.2600 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.18 | 24.18 | 0.2618 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM PI/2 BPSK | 1@187 | 25.88 | 23.88 | 0.2443 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 90@45 | 26.17 | 24.17 | 0.2612 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 1@1 | 26.27 | 24.27 | 0.2673 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM QPSK | 1@187 | 25.78 | 23.78 | 0.2388 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 90@45 | 25.18 | 23.18 | 0.2080 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.22 | 23.22 | 0.2099 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 16 QAM | 1@187 | 24.95 | 22.95 | 0.1972 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 90@45 | 23.72 | 21.72 | 0.1486 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.67 | 21.67 | 0.1469 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 64 QAM | 1@187 | 23.4 | 21.4 | 0.1380 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 90@45 | 22.15 | 20.15 | 0.1035 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 1@1 | 21.27 | 19.27 | 0.0845 |
| 78 | 30 | 70 | 632334 | 3485.01 | DFT-s-OFDM 256 QAM | 1@187 | 21.32 | 19.32 | 0.0855 |
| 78 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 95@47 | 24.7 | 22.7 | 0.1862 |
| 78 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 1@1 | 24.69 | 22.69 | 0.1858 |
| 78 | 30 | 70 | 632334 | 3485.01 | CP-OFDM QPSK | 1@187 | 24.49 | 22.49 | 0.1774 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 90@45 | 26.29 | 24.29 | 0.2685 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.27 | 24.27 | 0.2673 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@187 | 25.98 | 23.98 | 0.2500 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 90@45 | 26.32 | 24.32 | 0.2704 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.15 | 24.15 | 0.2600 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@187 | 25.87 | 23.87 | 0.2438 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 90@45 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.5 | 23.5 | 0.2239 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@187 | 25.19 | 23.19 | 0.2084 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 90@45 | 23.86 | 21.86 | 0.1535 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.71 | 21.71 | 0.1483 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@187 | 23.41 | 21.41 | 0.1384 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 90@45 | 22.21 | 20.21 | 0.1050 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 21.18 | 19.18 | 0.0828 |
| 78 | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@187 | 21.33 | 19.33 | 0.0857 |
| 78 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 95@47 | 24.81 | 22.81 | 0.1910 |
| 78 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 24.88 | 22.88 | 0.1941 |
| 78 | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 1@187 | 24.63 | 22.63 | 0.1832 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM PI/2 BPSK | 90@45 | 26.08 | 24.08 | 0.2559 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.35 | 24.35 | 0.2723 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM PI/2 BPSK | 1@187 | 25.9 | 23.9 | 0.2455 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM QPSK | 90@45 | 26.12 | 24.12 | 0.2582 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM QPSK | 1@1 | 26.39 | 24.39 | 0.2748 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM QPSK | 1@187 | 25.92 | 23.92 | 0.2466 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 16 QAM | 90@45 | 25.1 | 23.1 | 0.2042 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 16 QAM | 1@1 | 25.4 | 23.4 | 0.2188 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 16 QAM | 1@187 | 25.05 | 23.05 | 0.2018 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 64 QAM | 90@45 | 23.68 | 21.68 | 0.1472 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 64 QAM | 1@1 | 23.72 | 21.72 | 0.1486 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 64 QAM | 1@187 | 23.4 | 21.4 | 0.1380 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 256 QAM | 90@45 | 21.16 | 19.16 | 0.0824 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 256 QAM | 1@1 | 21.32 | 19.32 | 0.0855 |
| 78 | 30 | 70 | 634332 | 3514.98 | DFT-s-OFDM 256 QAM | 1@187 | 21.36 | 19.36 | 0.0863 |
| 78 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 95@47 | 24.65 | 22.65 | 0.1841 |
| 78 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 1@1 | 25.02 | 23.02 | 0.2004 |
| 78 | 30 | 70 | 634332 | 3514.98 | CP-OFDM QPSK | 1@187 | 24.46 | 22.46 | 0.1762 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM PI/2 BPSK | 108@54 | 26.28 | 24.28 | 0.2679 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.05 | 24.05 | 0.2541 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM PI/2 BPSK | 1@215 | 25.88 | 23.88 | 0.2443 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 108@54 | 26.18 | 24.18 | 0.2618 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 1@1 | 26.1 | 24.1 | 0.2570 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM QPSK | 1@215 | 25.96 | 23.96 | 0.2489 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 108@54 | 25.23 | 23.23 | 0.2104 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 1@1 | 25.3 | 23.3 | 0.2138 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 16 QAM | 1@215 | 25.16 | 23.16 | 0.2070 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 108@54 | 23.8 | 21.8 | 0.1514 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 1@1 | 23.79 | 21.79 | 0.1510 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 64 QAM | 1@215 | 23.56 | 21.56 | 0.1432 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 108@54 | 22.23 | 20.23 | 0.1054 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 1@1 | 22.02 | 20.02 | 0.1005 |
| 78 | 30 | 80 | 632668 | 3490.02 | DFT-s-OFDM 256 QAM | 1@215 | 20.94 | 18.94 | 0.0783 |
| 78 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 109@54 | 24.72 | 22.72 | 0.1871 |
| 78 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 1@1 | 24.73 | 22.73 | 0.1875 |
| 78 | 30 | 80 | 632668 | 3490.02 | CP-OFDM QPSK | 1@215 | 24.57 | 22.57 | 0.1807 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 108@54 | 26.29 | 24.29 | 0.2685 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.17 | 24.17 | 0.2612 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@215 | 26.06 | 24.06 | 0.2547 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 108@54 | 26.29 | 24.29 | 0.2685 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.31 | 24.31 | 0.2698 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@215 | 26.05 | 24.05 | 0.2541 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 108@54 | 25.31 | 23.31 | 0.2143 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.17 | 23.17 | 0.2075 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@215 | 25.25 | 23.25 | 0.2113 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 108@54 | 23.82 | 21.82 | 0.1521 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.64 | 21.64 | 0.1459 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@215 | 23.75 | 21.75 | 0.1496 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 108@54 | 21.39 | 19.39 | 0.0869 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 22.31 | 20.31 | 0.1074 |
| 78 | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@215 | 21.5 | 19.5 | 0.0891 |
| 78 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 109@54 | 24.83 | 22.83 | 0.1919 |
| 78 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 24.92 | 22.92 | 0.1959 |
| 78 | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 1@215 | 24.74 | 22.74 | 0.1879 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 108@54 | 26.19 | 24.19 | 0.2624 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.23 | 24.23 | 0.2649 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM PI/2 BPSK | 1@215 | 25.95 | 23.95 | 0.2483 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 108@54 | 26.13 | 24.13 | 0.2588 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 1@1 | 26.31 | 24.31 | 0.2698 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM QPSK | 1@215 | 25.96 | 23.96 | 0.2489 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 108@54 | 25.17 | 23.17 | 0.2075 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 1@1 | 25.41 | 23.41 | 0.2193 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 16 QAM | 1@215 | 24.99 | 22.99 | 0.1991 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 108@54 | 23.74 | 21.74 | 0.1493 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 1@1 | 23.87 | 21.87 | 0.1538 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 64 QAM | 1@215 | 23.63 | 21.63 | 0.1455 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 108@54 | 21.22 | 19.22 | 0.0836 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 1@1 | 21.21 | 19.21 | 0.0834 |
| 78 | 30 | 80 | 634000 | 3510 | DFT-s-OFDM 256 QAM | 1@215 | 21.35 | 19.35 | 0.0861 |
| 78 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 109@54 | 24.7 | 22.7 | 0.1862 |
| 78 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 1@1 | 24.84 | 22.84 | 0.1923 |
| 78 | 30 | 80 | 634000 | 3510 | CP-OFDM QPSK | 1@215 | 24.53 | 22.53 | 0.1791 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM PI/2 BPSK | 120@60 | 26.25 | 24.25 | 0.2661 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.04 | 24.04 | 0.2535 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM PI/2 BPSK | 1@243 | 25.95 | 23.95 | 0.2483 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM QPSK | 120@60 | 26.27 | 24.27 | 0.2673 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM QPSK | 1@1 | 26.18 | 24.18 | 0.2618 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM QPSK | 1@243 | 25.89 | 23.89 | 0.2449 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 16 QAM | 120@60 | 25.31 | 23.31 | 0.2143 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 16 QAM | 1@1 | 25.37 | 23.37 | 0.2173 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 16 QAM | 1@243 | 25.08 | 23.08 | 0.2032 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 64 QAM | 120@60 | 23.74 | 21.74 | 0.1493 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 64 QAM | 1@1 | 23.62 | 21.62 | 0.1452 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 64 QAM | 1@243 | 23.53 | 21.53 | 0.1422 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 256 QAM | 120@60 | 21.39 | 19.39 | 0.0869 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 256 QAM | 1@1 | 21.49 | 19.49 | 0.0889 |
| 78 | 30 | 90 | 633000 | 3495 | DFT-s-OFDM 256 QAM | 1@243 | 21.02 | 19.02 | 0.0798 |
| 78 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 123@61 | 24.79 | 22.79 | 0.1901 |
| 78 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 1@1 | 24.83 | 22.83 | 0.1919 |
| 78 | 30 | 90 | 633000 | 3495 | CP-OFDM QPSK | 1@243 | 24.53 | 22.53 | 0.1791 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 120@60 | 26.29 | 24.29 | 0.2685 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.14 | 24.14 | 0.2594 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@243 | 26.07 | 24.07 | 0.2553 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 120@60 | 26.36 | 24.36 | 0.2729 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.2 | 24.2 | 0.2630 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@243 | 26 | 24 | 0.2512 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 120@60 | 25.29 | 23.29 | 0.2133 |

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|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.27 | 23.27 | 0.2123 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@243 | 25.17 | 23.17 | 0.2075 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 120@60 | 23.72 | 21.72 | 0.1486 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.59 | 21.59 | 0.1442 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@243 | 23.5 | 21.5 | 0.1413 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 120@60 | 21.4 | 19.4 | 0.0871 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 21.57 | 19.57 | 0.0906 |
| 78 | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@243 | 21.08 | 19.08 | 0.0809 |
| 78 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 123@61 | 24.74 | 22.74 | 0.1879 |
| 78 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 24.64 | 22.64 | 0.1837 |
| 78 | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 1@243 | 24.49 | 22.49 | 0.1774 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 120@60 | 26.22 | 24.22 | 0.2642 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.15 | 24.15 | 0.2600 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM PI/2 BPSK | 1@243 | 25.96 | 23.96 | 0.2489 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 120@60 | 26.25 | 24.25 | 0.2661 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 1@1 | 26.25 | 24.25 | 0.2661 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM QPSK | 1@243 | 25.95 | 23.95 | 0.2483 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 120@60 | 25.2 | 23.2 | 0.2089 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 1@1 | 25.26 | 23.26 | 0.2118 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 16 QAM | 1@243 | 25.04 | 23.04 | 0.2014 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 120@60 | 23.73 | 21.73 | 0.1489 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 1@1 | 23.73 | 21.73 | 0.1489 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 64 QAM | 1@243 | 23.46 | 21.46 | 0.1400 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 120@60 | 21.39 | 19.39 | 0.0869 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 1@1 | 21.7 | 19.7 | 0.0933 |
| 78 | 30 | 90 | 633666 | 3504.99 | DFT-s-OFDM 256 QAM | 1@243 | 21.27 | 19.27 | 0.0845 |
| 78 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 123@61 | 24.76 | 22.76 | 0.1888 |
| 78 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 1@1 | 24.67 | 22.67 | 0.1849 |
| 78 | 30 | 90 | 633666 | 3504.99 | CP-OFDM QPSK | 1@243 | 24.46 | 22.46 | 0.1762 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 135@67 | 26.75 | 24.75 | 0.2985 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.18 | 24.18 | 0.2618 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@271 | 25.89 | 23.89 | 0.2449 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 135@67 | 26.28 | 24.28 | 0.2679 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@1 | 26.11 | 24.11 | 0.2576 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@271 | 25.89 | 23.89 | 0.2449 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 135@67 | 25.27 | 23.27 | 0.2123 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.46 | 23.46 | 0.2218 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 16 QAM | 1@271 | 25.2 | 23.2 | 0.2089 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 135@67 | 23.87 | 21.87 | 0.1538 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@1 | 23.71 | 21.71 | 0.1483 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 64 QAM | 1@271 | 23.55 | 21.55 | 0.1429 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 135@67 | 21.37 | 19.37 | 0.0865 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@1 | 21.66 | 19.66 | 0.0925 |
| 78 | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM 256 QAM | 1@271 | 20.99 | 18.99 | 0.0793 |
| 78 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 137@68 | 24.77 | 22.77 | 0.1892 |
| 78 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 1@1 | 24.74 | 22.74 | 0.1879 |
| 78 | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 1@271 | 24.59 | 22.59 | 0.1816 |

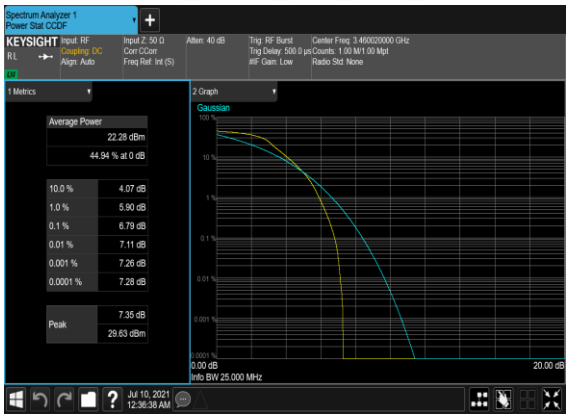
## Frequency Stability

| 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 | -0.00248 | PASS | NV |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00861 | PASS | LV |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00859 | PASS | HV |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00551 | PASS | -30℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00511 | PASS | -20℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00522 | PASS | -10℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00221 | PASS | 0℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00387 | PASS | 10℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00693 | PASS | 20℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00634 | PASS | 30℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00739 | PASS | 40℃ |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | -0.00507 | PASS | 50℃ |

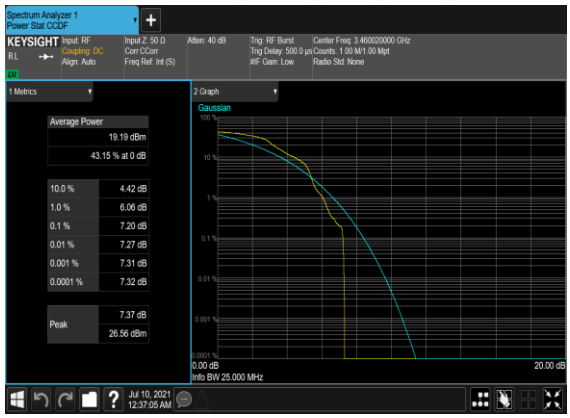
## Peak to Average Radio

| 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 PI/2 BPSK | 50@0 | 6.79 | 13 | PASS |
| **78** | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM PI/2 BPSK | 1@0 | 7.2 | 13 | PASS |
| **78** | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 50@0 | 7.44 | 13 | PASS |
| **78** | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM QPSK | 1@0 | 7.07 | 13 | PASS |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 50@0 | 6.72 | 13 | PASS |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 1@0 | 7.11 | 13 | PASS |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | 7.48 | 13 | PASS |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 1@0 | 7.1 | 13 | PASS |
| **78** | 30 | 20 | 636000 | 3540.0 | DFT-s-OFDM PI/2 BPSK | 50@0 | 6.77 | 13 | PASS |
| **78** | 30 | 20 | 636000 | 3540.0 | DFT-s-OFDM PI/2 BPSK | 1@0 | 7.36 | 13 | PASS |
| **78** | 30 | 20 | 636000 | 3540.0 | DFT-s-OFDM QPSK | 50@0 | 7.58 | 13 | PASS |
| **78** | 30 | 20 | 636000 | 3540.0 | DFT-s-OFDM QPSK | 1@0 | 7.42 | 13 | PASS |

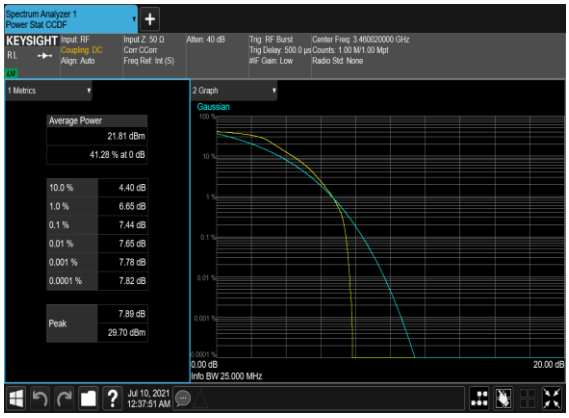
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



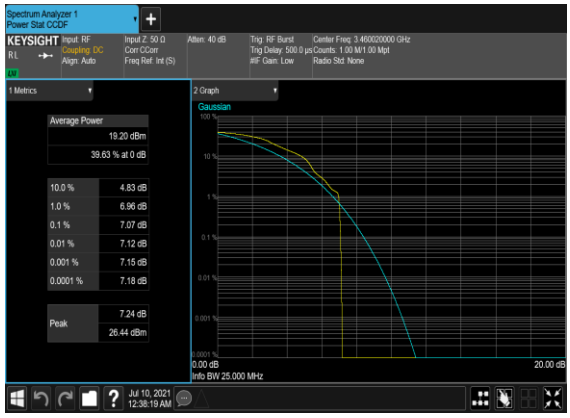

N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH




N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

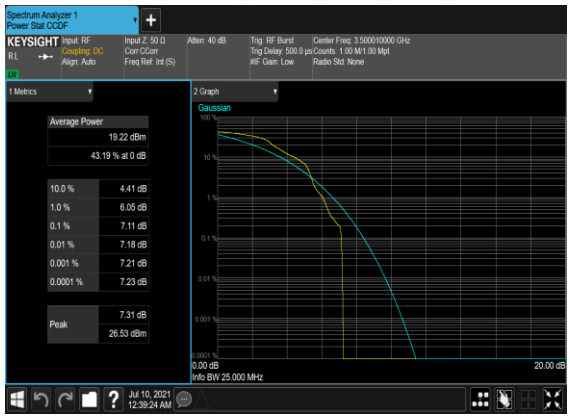



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



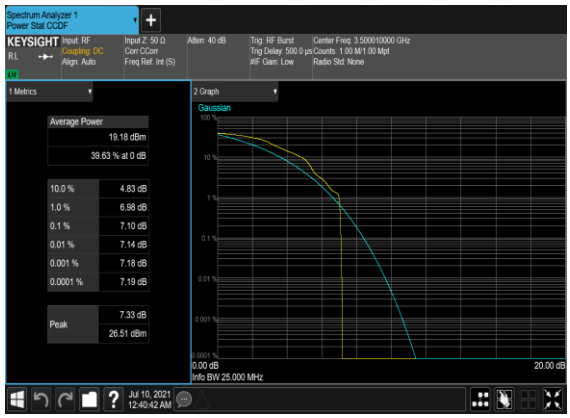

N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

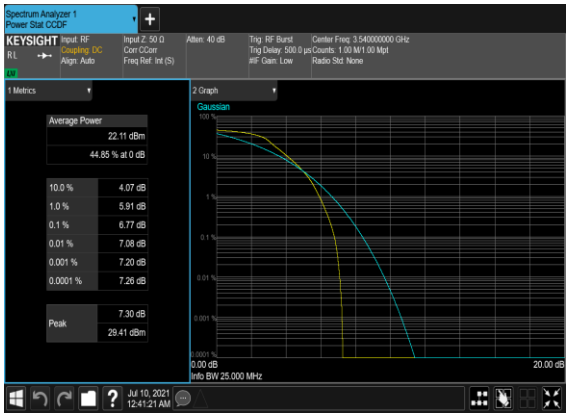


N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

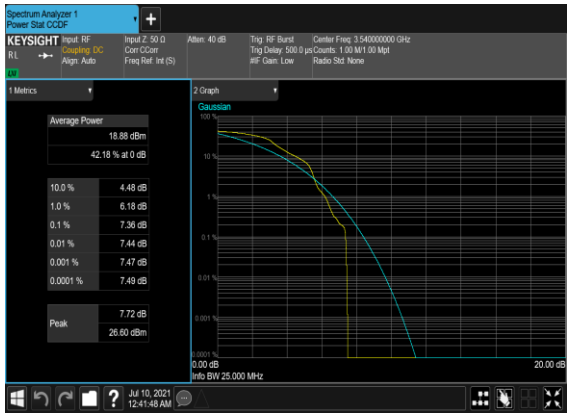
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH




N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

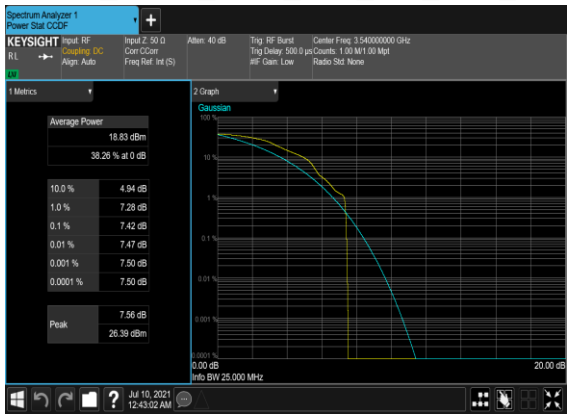



N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH




N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



## Occupied Bandwidth

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB OBW (MHz) |
|---|---|---|---|---|---|---|---|---|
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 50@0 | 17.794 | 18.93 |
| **78** | 30 | 20 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 50@0 | 17.81 | 18.91 |
| **78** | 30 | 20 | 633334 | 3500.01 | CP-OFDM QPSK | 51@0 | 18.21 | 19.52 |
| **78** | 30 | 20 | 633334 | 3500.01 | CP-OFDM 16 QAM | 51@0 | 18.259 | 19.26 |
| **78** | 30 | 20 | 633334 | 3500.01 | CP-OFDM 64 QAM | 51@0 | 18.232 | 19.53 |
| **78** | 30 | 20 | 633334 | 3500.01 | CP-OFDM 256 QAM | 51@0 | 18.195 | 19.39 |
| **78** | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 75@0 | 26.741 | 28.32 |
| **78** | 30 | 30 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 75@0 | 26.746 | 28.1 |
| **78** | 30 | 30 | 633334 | 3500.01 | CP-OFDM QPSK | 78@0 | 27.848 | 29.2 |
| **78** | 30 | 30 | 633334 | 3500.01 | CP-OFDM 16 QAM | 78@0 | 27.841 | 29.02 |
| **78** | 30 | 30 | 633334 | 3500.01 | CP-OFDM 64 QAM | 78@0 | 27.863 | 29.17 |
| **78** | 30 | 30 | 633334 | 3500.01 | CP-OFDM 256 QAM | 78@0 | 27.836 | 29.14 |
| **78** | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 100@0 | 35.685 | 37.37 |
| **78** | 30 | 40 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 100@0 | 35.736 | 37.35 |
| **78** | 30 | 40 | 633334 | 3500.01 | CP-OFDM QPSK | 106@0 | 37.727 | 39.27 |
| **78** | 30 | 40 | 633334 | 3500.01 | CP-OFDM 16 QAM | 106@0 | 37.862 | 39.34 |
| **78** | 30 | 40 | 633334 | 3500.01 | CP-OFDM 64 QAM | 106@0 | 37.801 | 39.29 |
| **78** | 30 | 40 | 633334 | 3500.01 | CP-OFDM 256 QAM | 106@0 | 37.891 | 39.47 |
| **78** | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 128@0 | 45.746 | 47.43 |
| **78** | 30 | 50 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 128@0 | 45.741 | 47.54 |
| **78** | 30 | 50 | 633334 | 3500.01 | CP-OFDM QPSK | 133@0 | 47.51 | 49.4 |
| **78** | 30 | 50 | 633334 | 3500.01 | CP-OFDM 16 QAM | 133@0 | 47.439 | 49.32 |
| **78** | 30 | 50 | 633334 | 3500.01 | CP-OFDM 64 QAM | 133@0 | 47.56 | 49.29 |
| **78** | 30 | 50 | 633334 | 3500.01 | CP-OFDM 256 QAM | 133@0 | 47.44 | 49.31 |

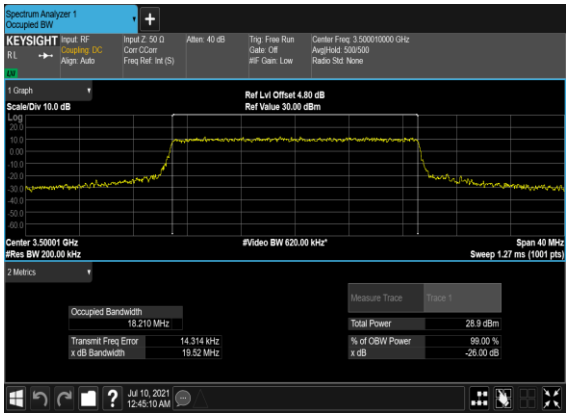
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **78** | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 162@0 | 57.827 | 59.8 |
| **78** | 30 | 60 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 162@0 | 57.802 | 60.03 |
| **78** | 30 | 60 | 633334 | 3500.01 | CP-OFDM QPSK | 162@0 | 57.771 | 59.95 |
| **78** | 30 | 60 | 633334 | 3500.01 | CP-OFDM 16 QAM | 162@0 | 57.798 | 59.88 |
| **78** | 30 | 60 | 633334 | 3500.01 | CP-OFDM 64 QAM | 162@0 | 57.867 | 59.88 |
| **78** | 30 | 60 | 633334 | 3500.01 | CP-OFDM 256 QAM | 162@0 | 57.891 | 59.82 |
| **78** | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 180@0 | 64.486 | 66.48 |
| **78** | 30 | 70 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 180@0 | 64.401 | 66.58 |
| **78** | 30 | 70 | 633334 | 3500.01 | CP-OFDM QPSK | 189@0 | 67.488 | 69.67 |
| **78** | 30 | 70 | 633334 | 3500.01 | CP-OFDM 16 QAM | 189@0 | 67.472 | 69.76 |
| **78** | 30 | 70 | 633334 | 3500.01 | CP-OFDM 64 QAM | 189@0 | 67.566 | 71.07 |
| **78** | 30 | 70 | 633334 | 3500.01 | CP-OFDM 256 QAM | 189@0 | 67.593 | 69.63 |
| **78** | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 216@0 | 77.168 | 79.64 |
| **78** | 30 | 80 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 216@0 | 77.094 | 79.57 |
| **78** | 30 | 80 | 633334 | 3500.01 | CP-OFDM QPSK | 217@0 | 77.566 | 80.05 |
| **78** | 30 | 80 | 633334 | 3500.01 | CP-OFDM 16 QAM | 217@0 | 77.616 | 80.0 |
| **78** | 30 | 80 | 633334 | 3500.01 | CP-OFDM 64 QAM | 217@0 | 77.511 | 80.09 |
| **78** | 30 | 80 | 633334 | 3500.01 | CP-OFDM 256 QAM | 217@0 | 77.349 | 80.0 |
| **78** | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 240@0 | 85.662 | 88.62 |
| **78** | 30 | 90 | 633334 | 3500.01 | DFT-s-OFDM QPSK | 240@0 | 85.677 | 88.47 |
| **78** | 30 | 90 | 633334 | 3500.01 | CP-OFDM QPSK | 245@0 | 87.506 | 90.21 |
| **78** | 30 | 90 | 633334 | 3500.01 | CP-OFDM 16 QAM | 245@0 | 87.464 | 90.47 |
| **78** | 30 | 90 | 633334 | 3500.01 | CP-OFDM 64 QAM | 245@0 | 87.394 | 90.32 |
| **78** | 30 | 90 | 633334 | 3500.01 | CP-OFDM 256 QAM | 245@0 | 87.542 | 90.33 |
| **78** | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM PI/2 BPSK | 270@0 | 96.393 | 99.57 |
| **78** | 30 | 100 | 633334 | 3500.01 | DFT-s-OFDM | 270@0 | 96.57 | 99.56 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | QPSK | | | |
| **78** | 30 | 100 | 633334 | 3500.01 | CP-OFDM QPSK | 273@0 | 97.722 | 100.6 |
| **78** | 30 | 100 | 633334 | 3500.01 | CP-OFDM 16 QAM | 273@0 | 97.423 | 100.6 |
| **78** | 30 | 100 | 633334 | 3500.01 | CP-OFDM 64 QAM | 273@0 | 97.4 | 100.5 |
| **78** | 30 | 100 | 633334 | 3500.01 | CP-OFDM 256 QAM | 273@0 | 97.528 | 100.6 |

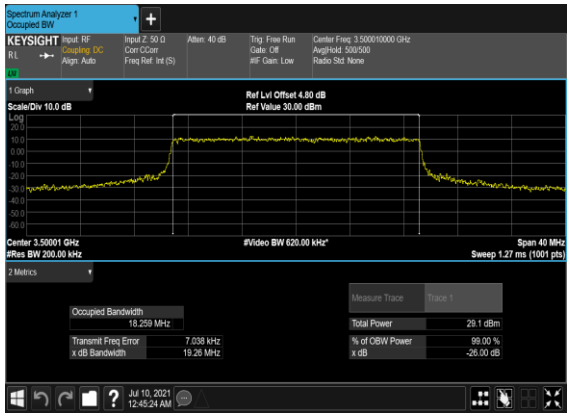
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

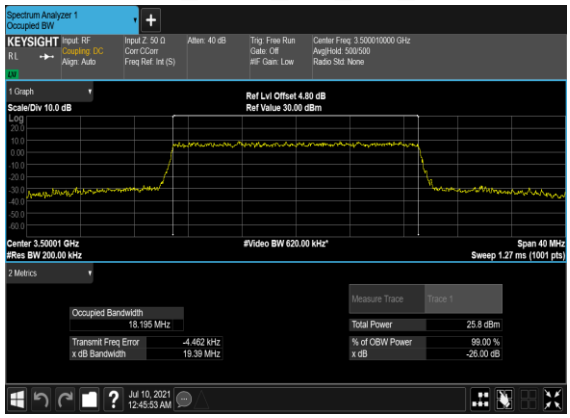



N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



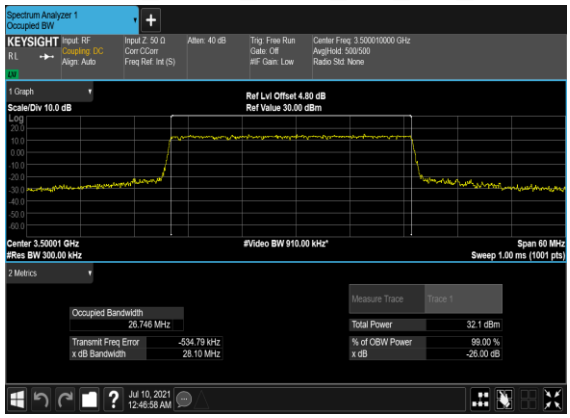

N78(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N78(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

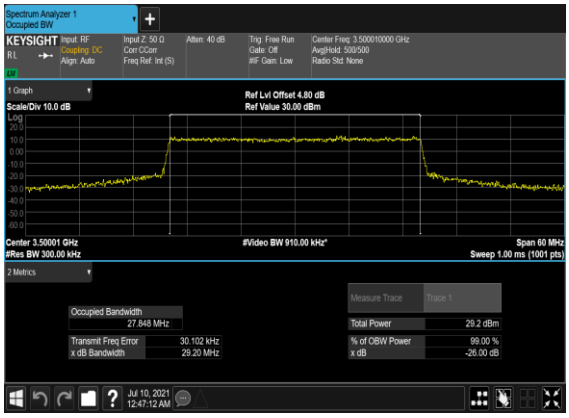


N78(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N78(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



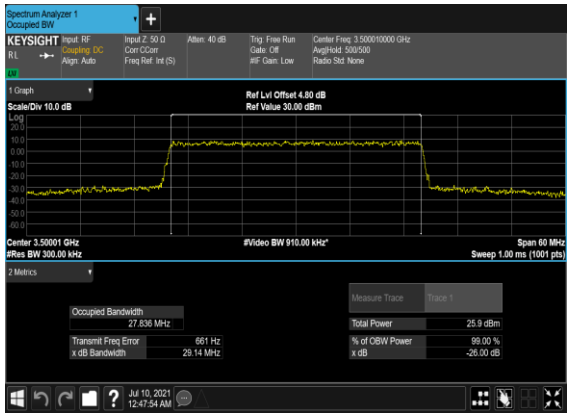

N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



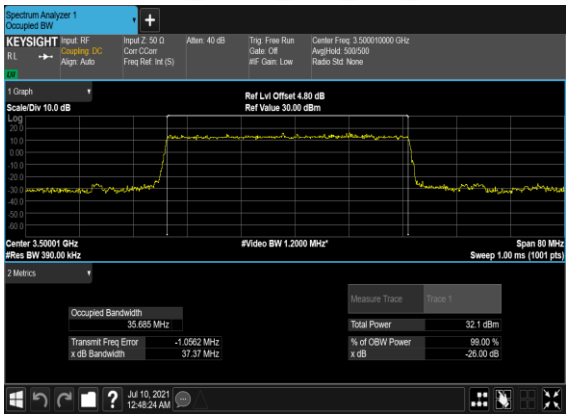

N78(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

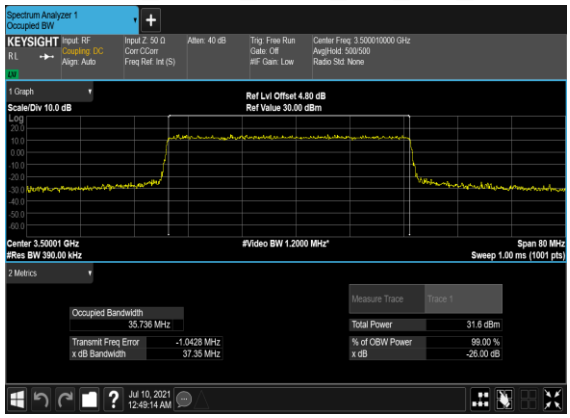
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



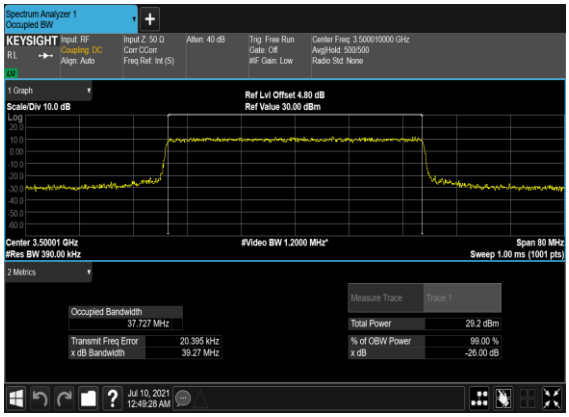
N78(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



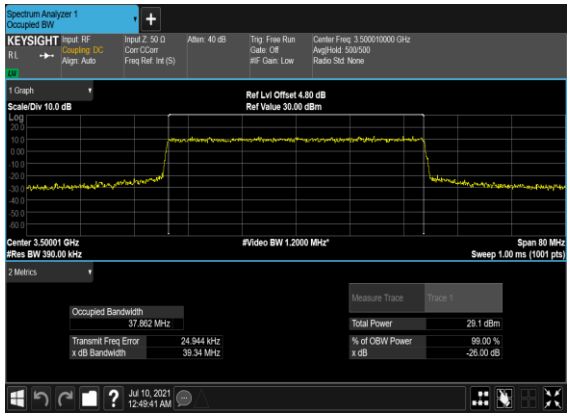

N78(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH




N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

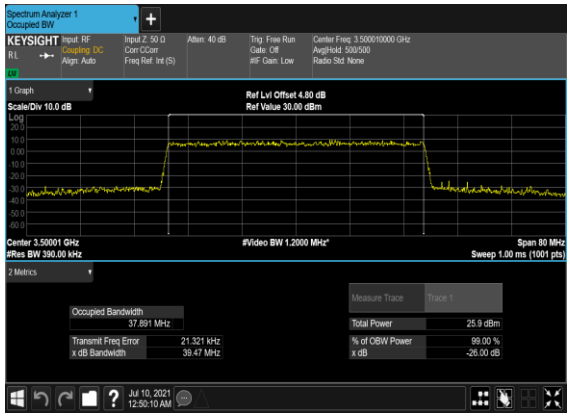



N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

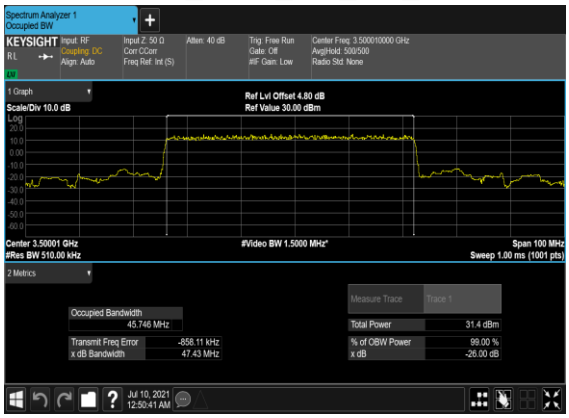



N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

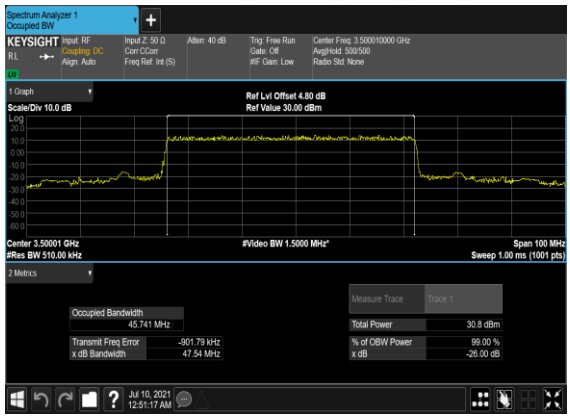
N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N78(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

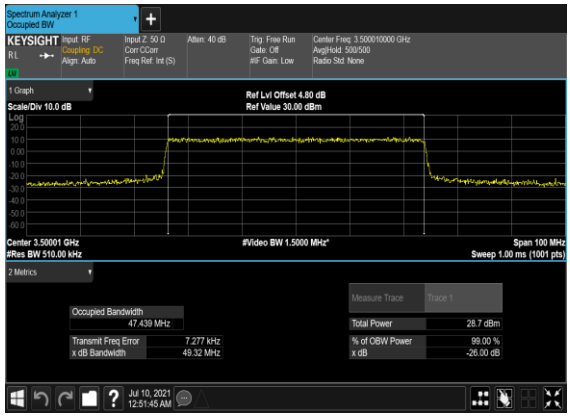



N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

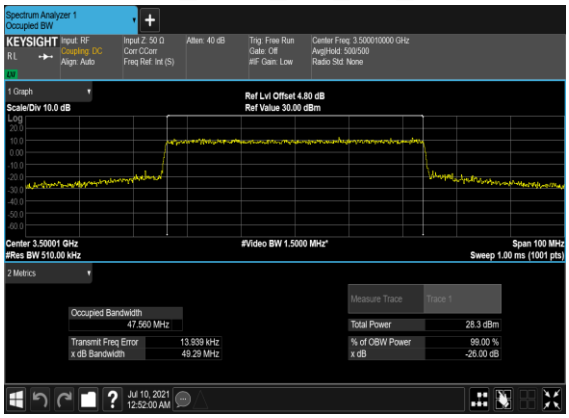



N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

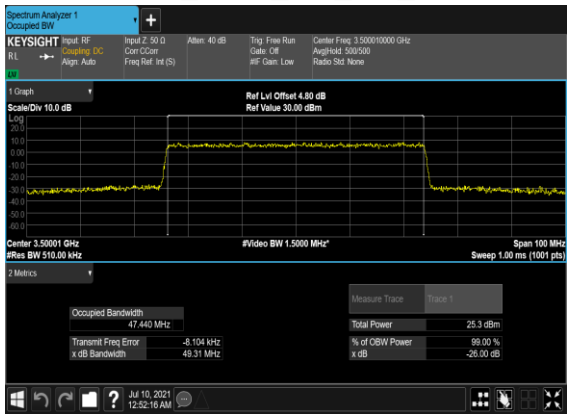
N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



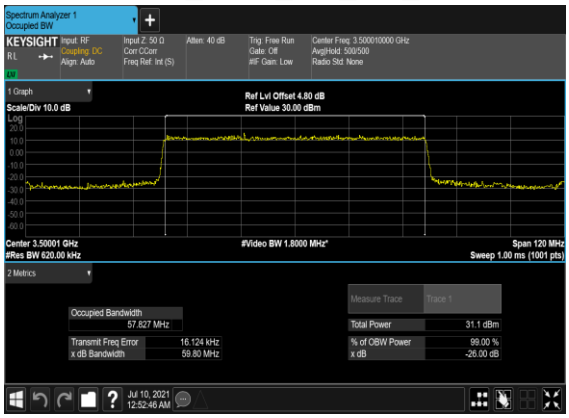

N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH




N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

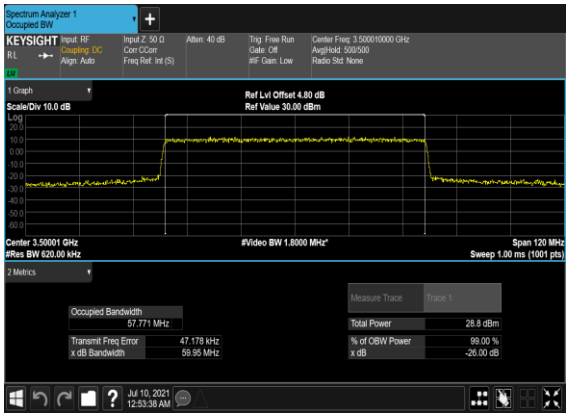


N78(60M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

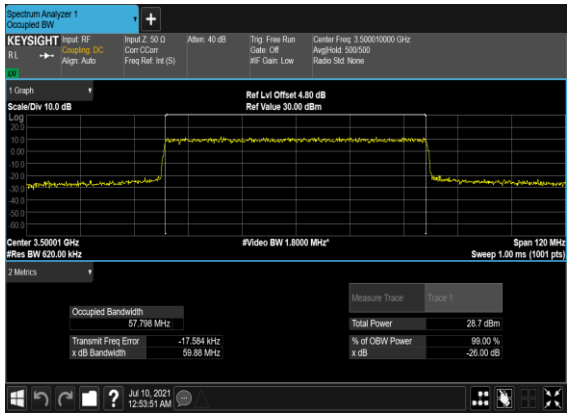



N78(60M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

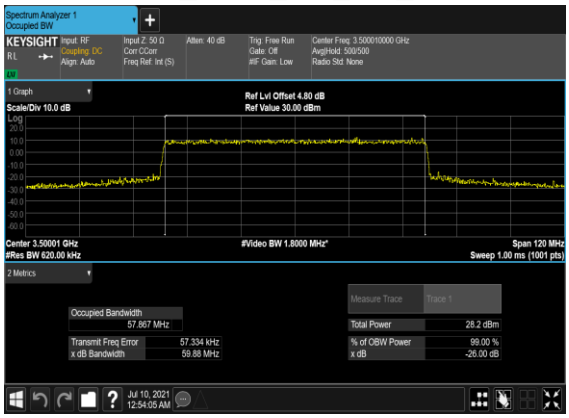
N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



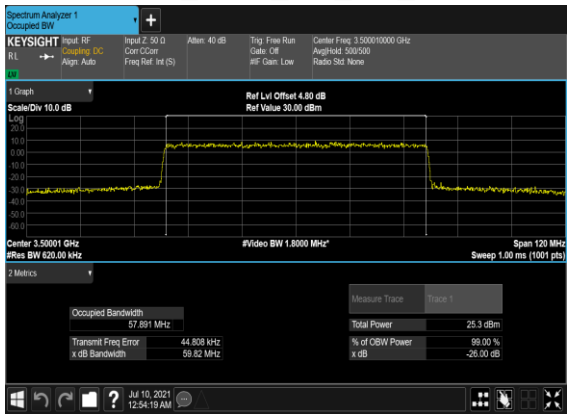

N78(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



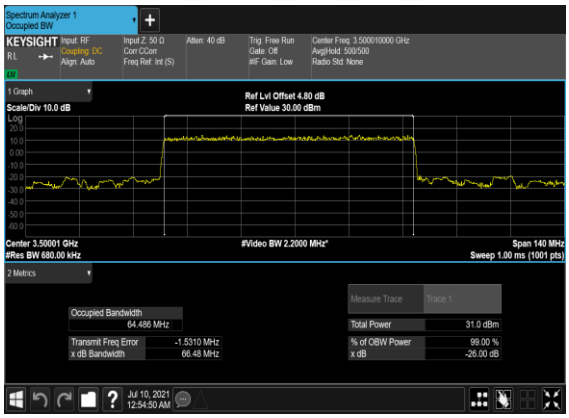

N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



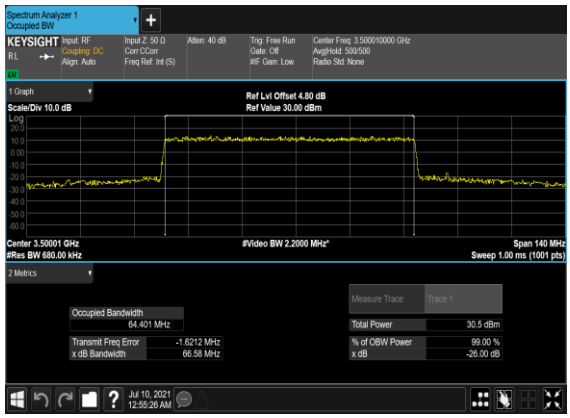

N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



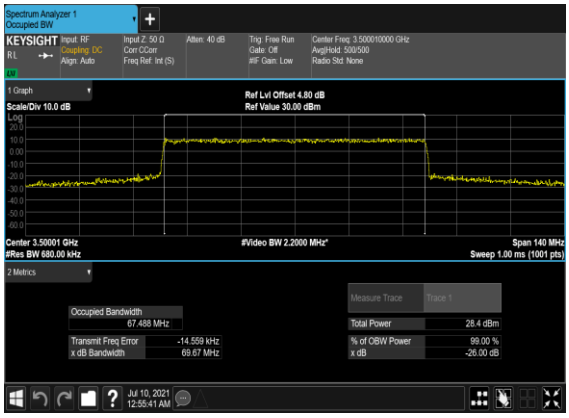
N78(70M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



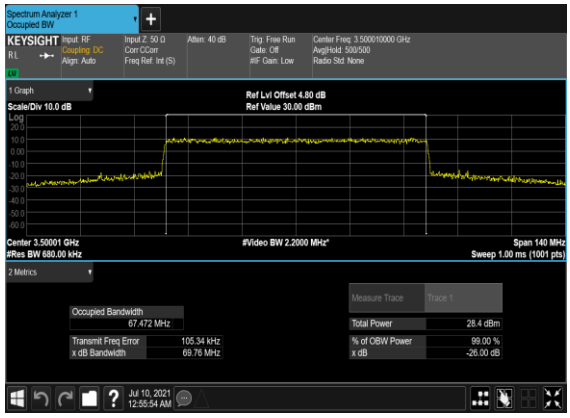

N78(70M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



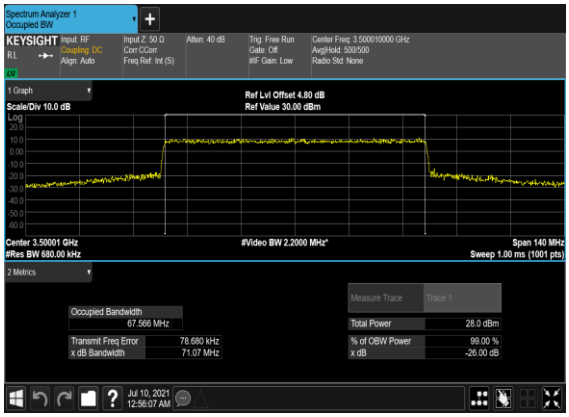

N78(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



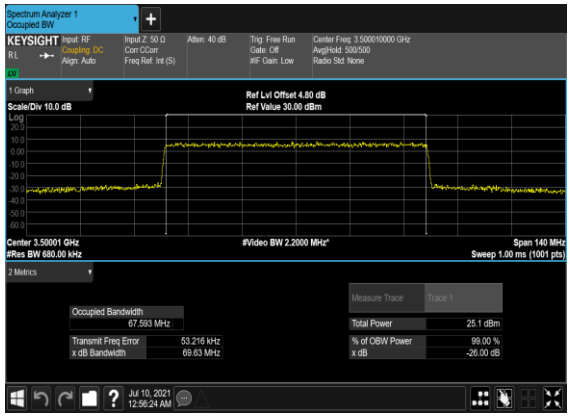

N78(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH




N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

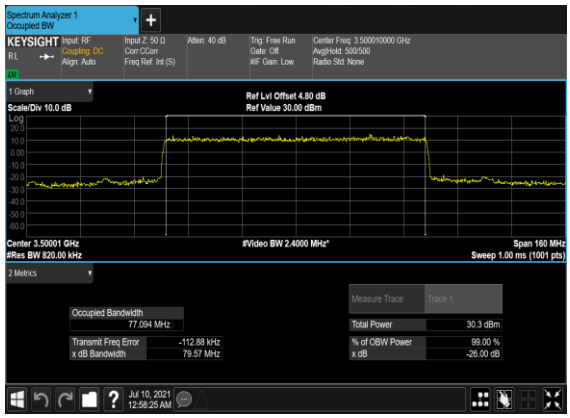



N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

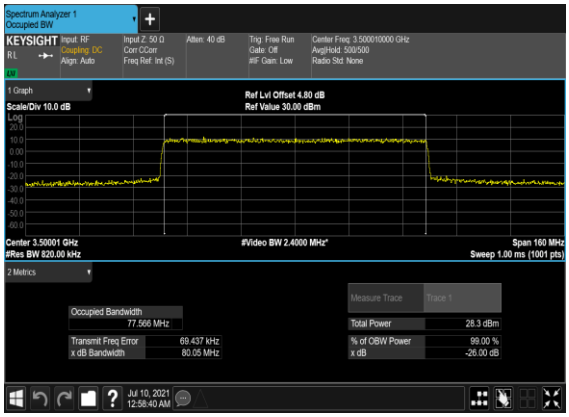


N78(80M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

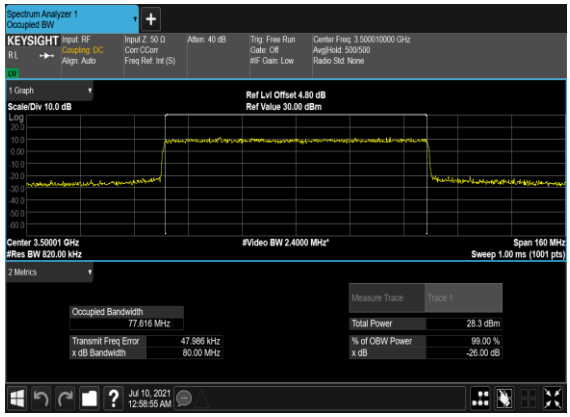
N78(80M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



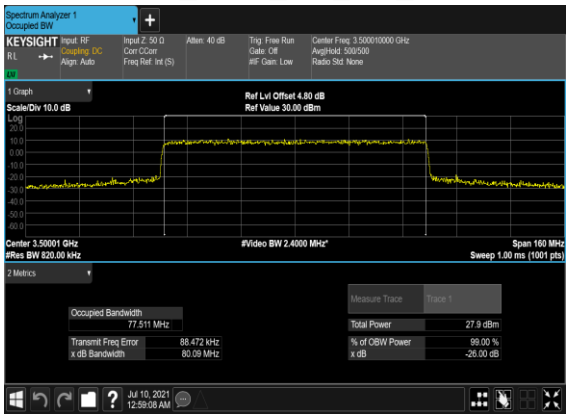

N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



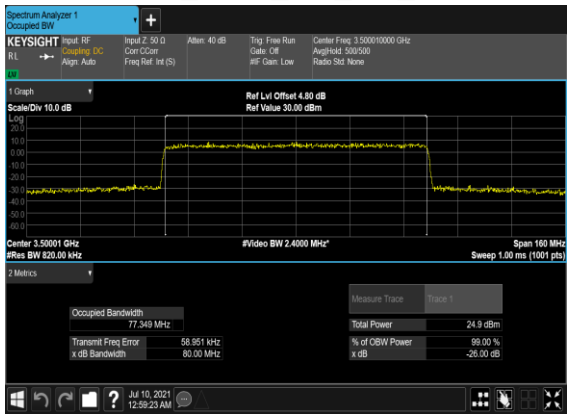

N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



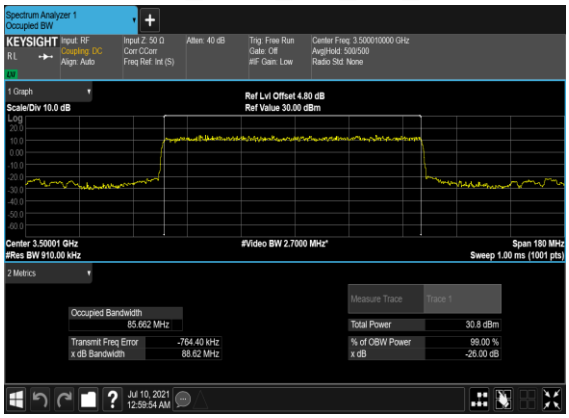

N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



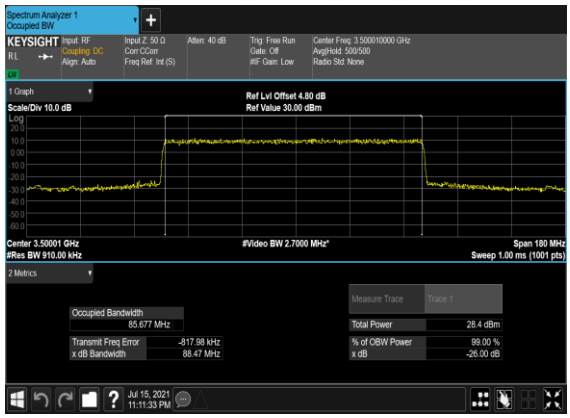

N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



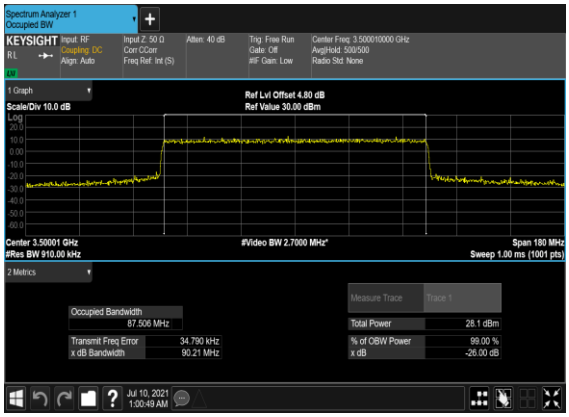
N78(90M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



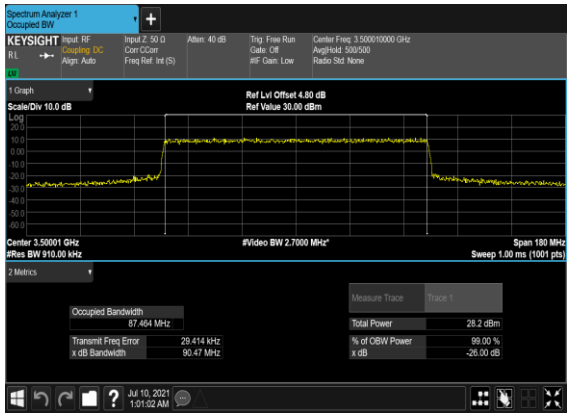

N78(90M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH




N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

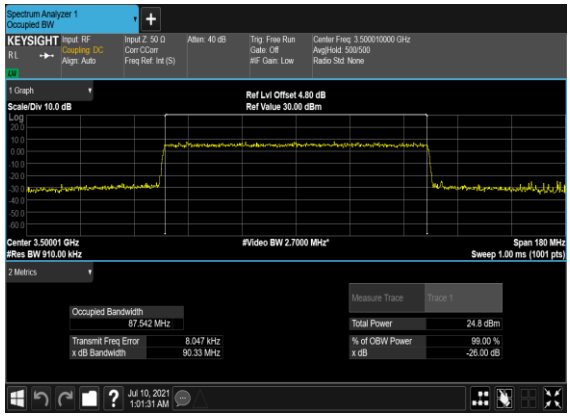



N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH




N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

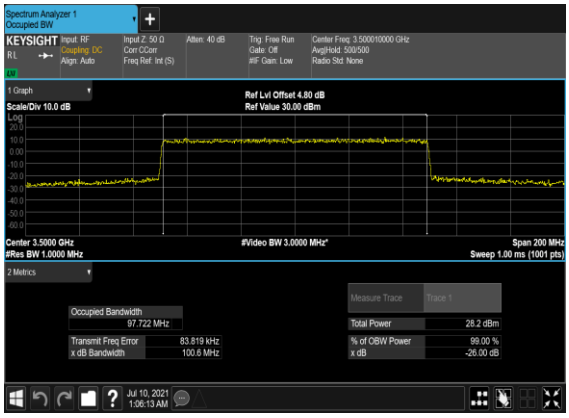
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



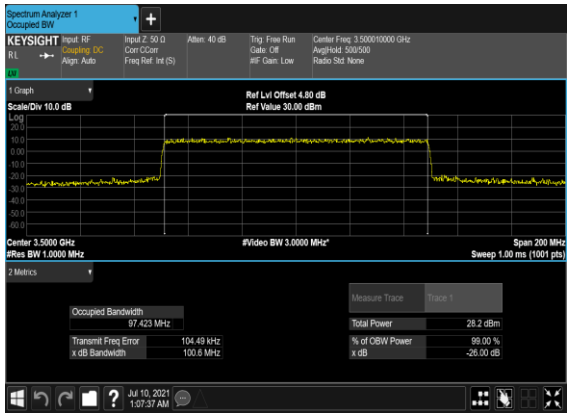
N78(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

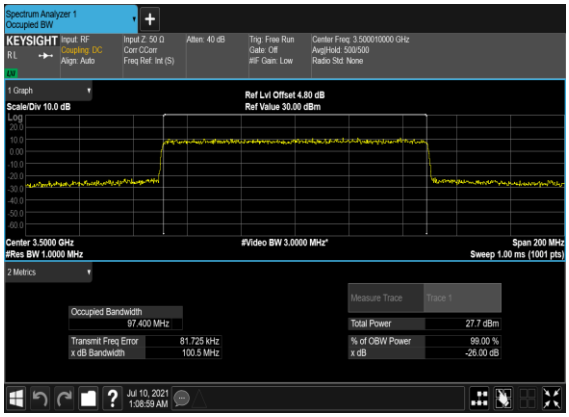
N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



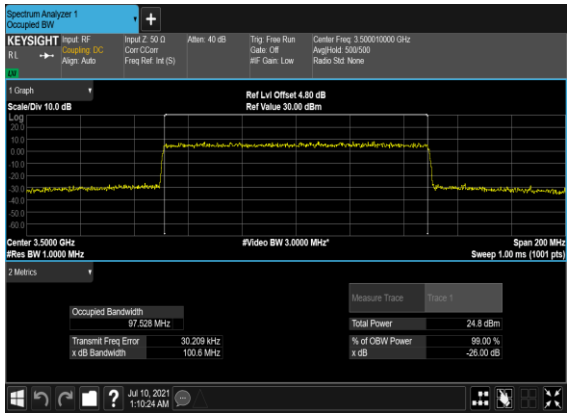

N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH




N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH




N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

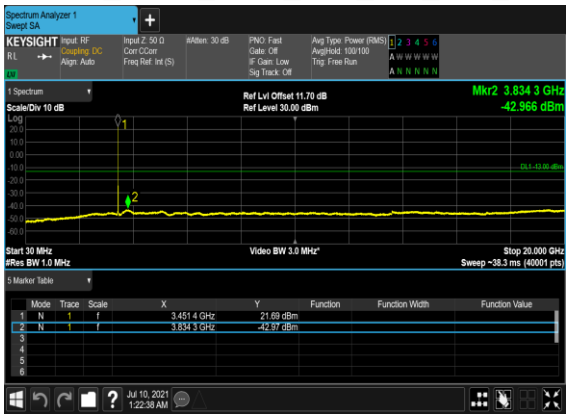


## Conducted Spurious Emissions

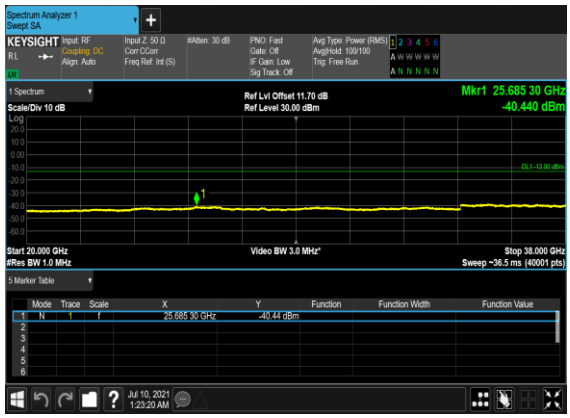
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---|---|---|---|---|---|---|---|---|
| **78** | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM BPSK | 1@0 | see graph | --- |
| **78** | 30 | 20 | 630668 | 3460.02 | DFT-s-OFDM BPSK | 1@0 | see graph | PASS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

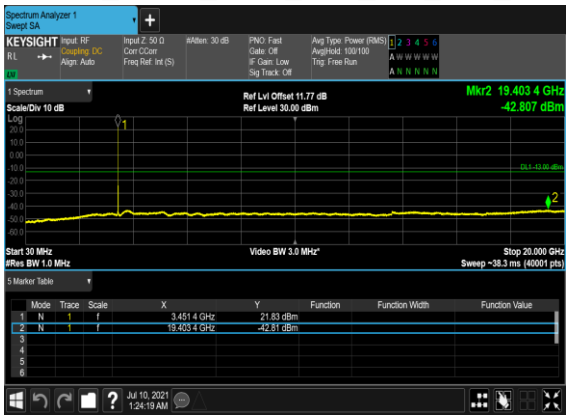
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH




N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH




N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

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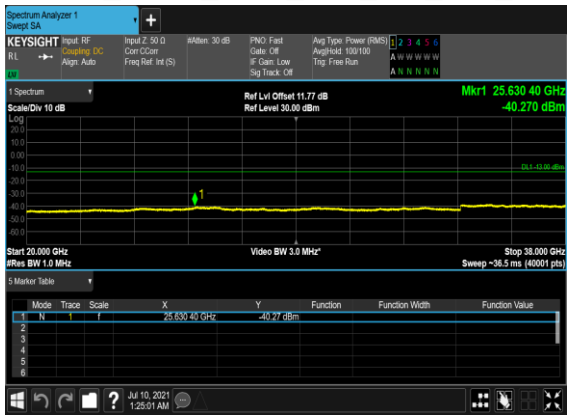
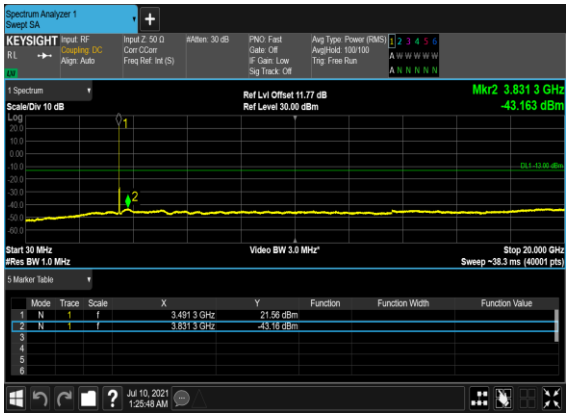



N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH




N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH