# FCC RF Test Report

| | | |
|---|---|---|
| **FCC ID** | : | **UZ7ET401EA** |
| **EQUIPMENT** | : | **Enterprise Tablet** |
| **BRAND NAME** | : | **Zebra** |
| **MODEL NAME** | : | **ET401EA** |
| **APPLICANT** | : | **Zebra Technologies Corporation**<br>**3 Overlook Point, Lincolnshire, IL 60069 USA** |
| **MANUFACTURER** | : | **Zebra Technologies Corporation**<br>**3 Overlook Point, Lincolnshire, IL 60069 USA** |
| **STANDARD** | : | **47 CFR Part 90(R)** |
| **CLASSIFICATION** | : | **PCS Licensed Transmitter (PCB)** |
| **TEST DATE(S)** | : | **Sep. 05, 2025 ~ Sep. 19, 2025** |

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

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

Fly Liang

**Approved by: Fly Liang**

ACCREDITED Cert #5145.01

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***People's Republic of China***

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**APPENDIX A. TEST RESULTS OF CONDUCTED TEST**

**APPENDIX B. TEST RESULTS OF RADIATED TEST**

**APPENDIX C. TEST SETUP PHOTOGRAPHS**

# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FG591010N | Rev. 01 | Initial issue of report | Dec. 09, 2025 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|
| 3.2 | §2.1046 | Conducted Output Power | — | PASS | - |
| | §90.542 (a)(7) | Effective Radiated Power | ERP < 3Watt | PASS | - |
| 3.3 | - | Peak-to-Average Ratio | — | PASS | - |
| 3.4 | §2.1049 | Occupied Bandwidth | — | PASS | - |
| 3.5 | §2.1053<br>§90.543 (e)(2)(3) | Conducted Band Edge Measurement | Refer standard | PASS | - |
| 3.6 | §2.1051<br>§90.210(n) | Emission Mask | Mask B | PASS | - |
| 3.7 | §2.1053<br>§90.543 (e)(3) | Conducted Spurious Emission | < $43+10\log_{10}$(P[Watts]) | PASS | - |
| 3.8 | §2.1055<br>§90.539 (e) | Frequency Stability Temperature & Voltage | < ±1.25 ppm | PASS | - |
| 4.4 | §2.1053<br>§90.543 (e)(3)<br>§90.543 (f) | Radiated Spurious Emission | < $43+10\log_{10}$(P[Watts]) | PASS | Under limit 16.19 dB at 9231.00 MHz |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

# 1 General Description

## 1.1 Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Enterprise Tablet |
| **Brand Name** | Zebra |
| **Model Name** | ET401EA |
| **FCC ID** | UZ7ET401EA |
| **IMEI Code** | Conducted:<br>354137290001975/354137290001983<br>354137290002197/354137290002205<br>Radiation:<br>354137290013269/354137290013277 |
| **HW Version** | EV2 |
| **SW Version** | qssi_64-userdebug 15 15-11-10.00-VG-U00-PRD-ERS-04 777 release-keys |
| **MFD** | 13SEP2025 |
| **EUT Stage** | Identical Prototype |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT: Sample 1 without Scanner and Sample 2 with Scanner. According to the difference, Sample 1 was chosen to perform full test.

| Specification of Accessory | | | | |
|---|---|---|---|---|
| **Battery** | **Brand Name** | Zebra | **Model** | BT-000528 |

| Supported Unit used in test configuration and system | | | | |
|---|---|---|---|---|
| **AC Adapter 1 (TYPE C Wall Charger 1)** | **Brand Name** | Zebra | **Part Number** | PWR-WUA5V45W1US |
| **Earphone 1 (Wired headset USB-C)** | **Brand Name** | Zebra | **Part Number** | HDST-USBC-PTT 1-01 |
| **Earphone 2 (Rugged Bluetooth Headset)** | **Brand Name** | Zebra | **Part Number** | HS3100-0TH |
| **Earphone 3 (3.5mm PTT Headset)** | **Brand Name** | Zebra | **Part Number** | HDST-35MM-PTT 1-02 |
| **Earphone 4 (Rugged Headset)** | **Brand Name** | Zebra | **Part Number** | HS2100-0TH |
| **Type C-Audio Cable (Type C to 3.5mm)** | **Brand Name** | Zebra | **Part Number** | ADP-USBC-35MM1-01 |
| **3.5mm to 3.5mm audio connector** | **Brand Name** | Zebra | **Part Number** | CBL-HS2100-3MS1-01 |
| **USB Cable 1 (USB-C to C Cable)** | **Brand Name** | Zebra | **Part Number** | CBL-EC5X-USBC3A-01 |
| **USB Cable 3 (USB-C to C Cable)** | **Brand Name** | Zebra | **Part Number** | CBL-TN28-USBC2C-01 |

## 1.2 Product Specification of Equipment Under Test

| Product Feature | |
|---|---|
| **Tx Frequency** | 5G NR n14: 788 MHz ~ 798 MHz |
| **Rx Frequency** | 5G NR n14: 758 MHz ~ 768 MHz |
| **Bandwidth** | n14: 5MHz / 10MHz |
| **SCS** | 15kHz |
| **Antenna Gain** | **<Ant. 8> :**-0.03 dBi |
| **Type of Modulation** | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM |

**Remark:**

1. 5G NR n14 support SA mode and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode.
2. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
3. The EN-DC mode combination could be referred to the product spec.

## 1.3 Maximum ERP Power, and Emission Designator

| 5G NR n14 | | PI/2 BPSK / QPSK | | 16QAM / 64QAM / 256QAM | |
|---|---|---|---|---|---|
| **BW (MHz)** | **Frequency Range (MHz)** | **Maximum ERP(W)** | **Emission Designator (99%OBW)** | **Maximum ERP(W)** | **Emission Designator (99%OBW)** |
| **5** | **790.5~795.5** | 0.1648 | 4M46G7D | 0.1294 | 4M50W7D |
| **10** | **793** | 0.1652 | 9M25G7D | 0.1288 | 9M25W7D |

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

## 1.4 Testing Site

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

| | | | |
|---|---|---|---|
| **Test Firm** | Sporton International Inc. (ShenZhen) | | |
| **Test Site Location** | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China<br>TEL: +86-755-86066985 | | |
| **Test Site No.** | **Sporton Site No.** | **FCC Designation No.** | **FCC Test Firm Registration No.** |
| | TH01-SZ<br>03CH02-SZ | CN1256 | 421272 |

## 1.5 Test Software

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

## 1.6 Applied Standards

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

- 47 CFR Part 90(R)
- ANSI C63.26
- KDB 971168 D01 Power Meas License Digital Systems v03r01
- 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

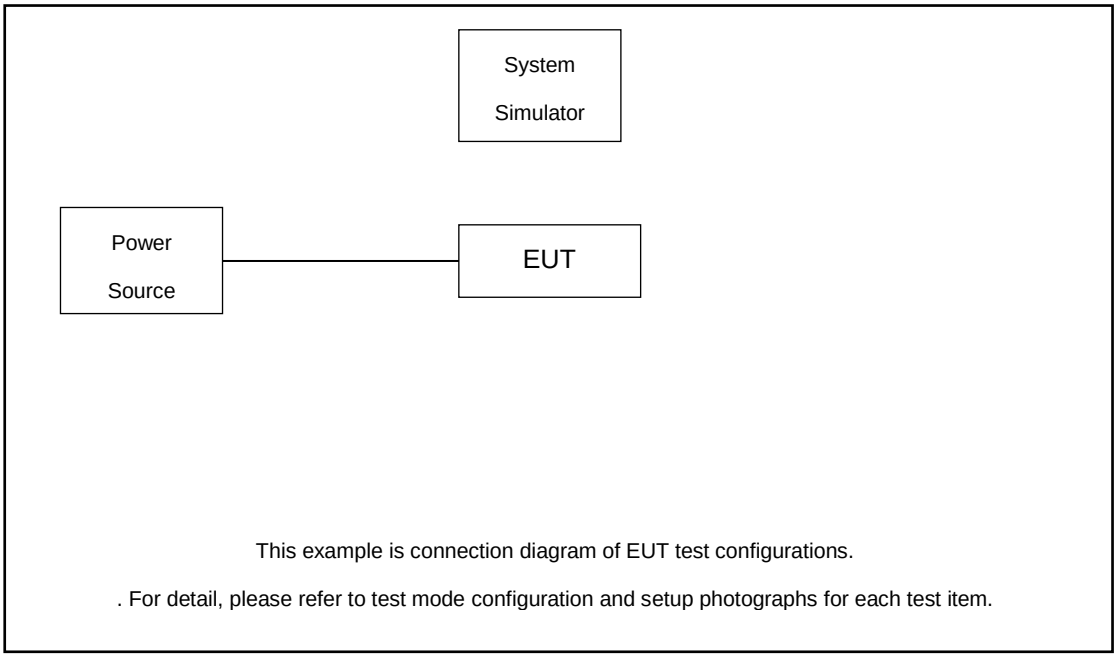
## 2.1 Test Mode

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. (Z Plane)

| Conducted Test Cases | Band | Bandwidth (MHz) | | | | | | Modulation | | | | | RB # | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | PI/2 BPSK | QPSK | 16QAM | 64QAM | 256QAM | 1 | Full | L | M | H |
| Max. Output Power | n14 | - | - | V | | - | - | | V | V | | | V | V | V | V | V |
| | n14 | - | - | | V | - | - | V | V | V | V | V | V | V | | V | |
| Peak-to-Average Ratio | n14 | - | - | V | V | - | - | V | V | | | | | V | | V | |
| 26dB and 99% Bandwidth | n14 | - | - | V | V | - | - | | V | V | V | V | | V | | V | |
| Conducted Band Edge | n14 | - | - | V | | - | - | V | V | | | | V | V | V | | V |
| | n14 | - | - | | V | - | - | V | V | | | | V | V | | V | |
| Emission Mask | n14 | - | - | V | | - | - | V | V | | | | V | V | V | V | V |
| | n14 | - | - | | V | - | - | V | V | | | | V | V | | V | |
| Conducted Spurious Emission | n14 | - | - | V | | - | - | V | V | | | | V | | V | V | V |
| | n14 | - | - | | V | - | - | V | V | | | | V | | | V | |
| Frequency Stability | n14 | - | - | V | V | - | - | | V | | | | | V | V | V | V |
| E.R.P | n14 | - | - | V | | - | - | | V | V | | | V | V | V | V | V |
| | n14 | - | - | | V | - | - | V | V | V | V | V | V | V | | V | |
| Radiated Spurious Emission | n14 | Worst Case | | | | | | | | | | | | | V | V | V |
| Note | 1. The mark "**v** " means that this configuration is chosen for testing<br>2. The mark "-" means that this bandwidth is not supported.<br>**3.** The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.<br>**4.** Frequency Stability：Normal Voltage = 3.91V ； Low Voltage =3.5V.； High Voltage =4.45V | | | | | | | | | | | | | | | | |

## 2.2 Connection Diagram of Test System




This example is connection diagram of EUT test configurations.

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

## 2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | LTE Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded, 1.8 m |
| 2. | DC Power Supply | GW INSTEK | GPS-3030D | N/A | N/A | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

**For all conducted test items:**

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

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 7.5 dB.

Example :

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

= 7.5 (dB)

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

| 5G NR n14 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 10 | Channel | - | 158600 | - |
| | Frequency | - | 793 | - |
| 5 | Channel | 158100 | 158600 | 159100 |
| | Frequency | 790.5 | 793 | 795.5 |

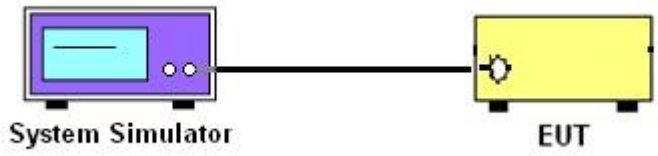
# 3 Conducted Test Items

## 3.1 Measuring Instruments

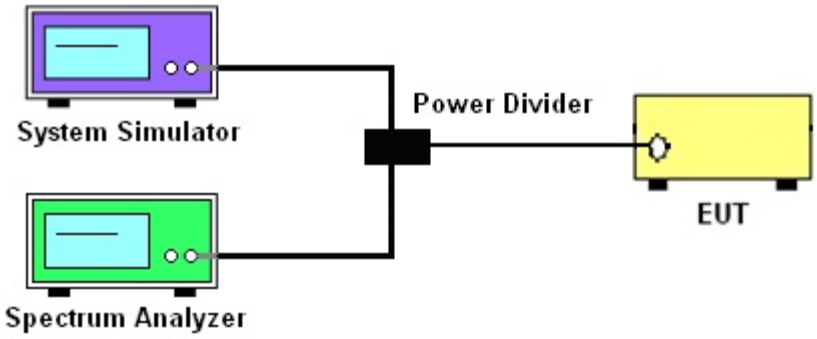
See list of measuring instruments of this test report.

### 3.1.1 Test Setup

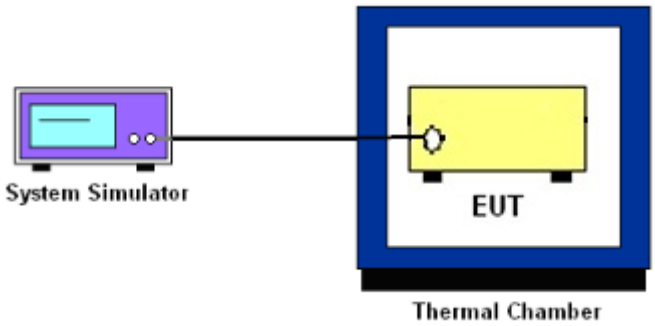
### 3.1.2 Conducted Output Power




### 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, and Conducted Spurious Emission




### 3.1.4 Frequency Stability




### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

## 3.2 Conducted Output Power and ERP

### 3.2.1 Description of the Conducted Output Power Measurement and ERP

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.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

According to KDB 412172 D01 Power Approach,

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

$P_T$ = transmitter output power in dBm

$G_T$ = gain of the transmitting antenna in dBi

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

### 3.2.2 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.

## 3.3 Peak-to-Average Ratio

### 3.3.1 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.

### 3.3.2 Test Procedures

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

## 3.4 Occupied Bandwidth

### 3.4.1 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.

### 3.4.2 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.

# 3.5 Conducted Band Edge Measurement

## 3.5.1 Description of Conducted Band Edge Measurement

For operations in the 758-768 MHz and the 788-798 MHz bands

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

## 3.5.2 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 spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

# 3.6 Emission Mask

## 3.6.1 Description of Emission Mask

<Emission Mask B>.

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

## 3.6.2 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

# 3.7 Conducted Spurious Emission Measurement

## 3.7.1 Description of Conducted Spurious Emission Measurement

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

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

## 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and base station via power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and power divider. The path loss was compensated to the results for each measurement.
   Path Loss Factor = Cable + Power Divider, Where the cable and power divider are the total path loss for the system calibration.
4. The low/middle/high 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, for under 1GHz RBW = 100kHz, VBW = 300kHz and for above 1GHz RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
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. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

# 3.8 Frequency Stability Measurement

## 3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±1.25 ppm of the center frequency.

## 3.8.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
10. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

## 3.8.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
11. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
3. 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.
4. The variation in frequency was measured for the worst case.

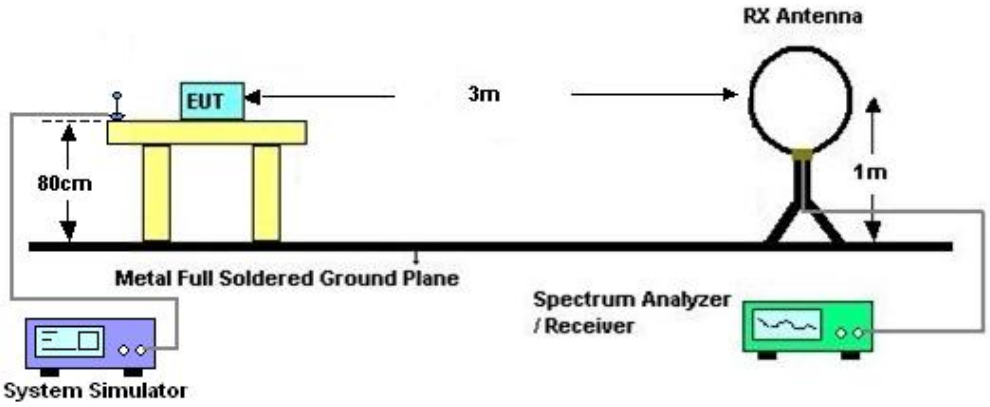
# 4 Radiated Test Items

## 4.1 Measuring Instruments

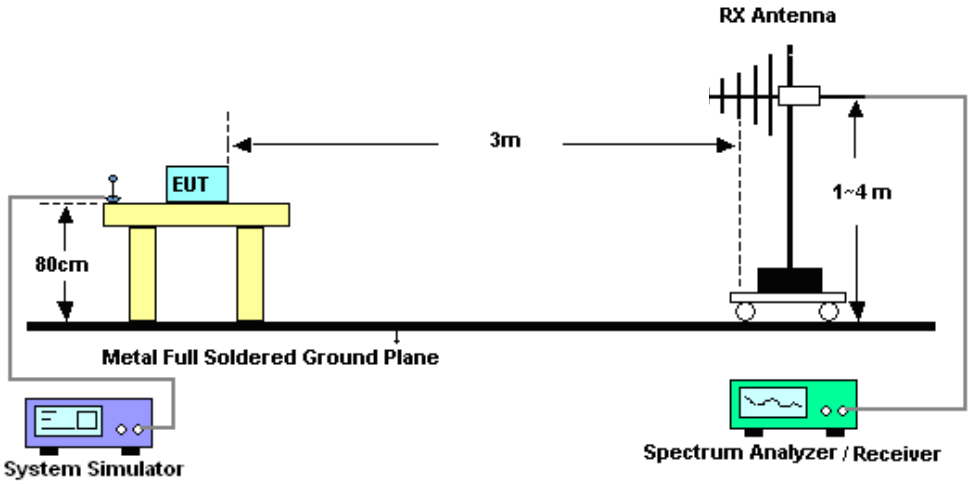
See list of measuring instruments of this test report.

## 4.2 Test Setup

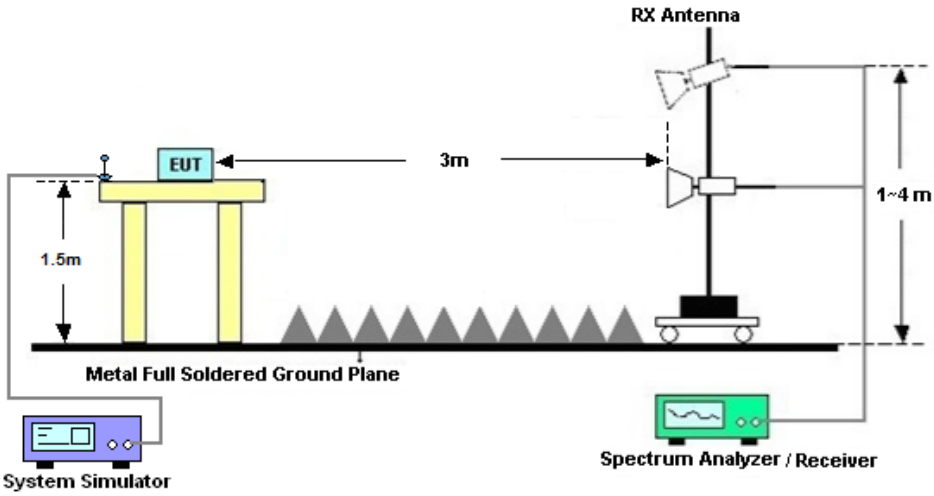
### 4.2.1 For radiated test below 30MHz




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



### 4.2.3 For radiated test above 1GHz




## 4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

## 4.4 Radiated Spurious Emission Measurement

### 4.4.1 Description of Radiated Spurious Emission

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

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

### 4.4.2 Test Procedures

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

# 5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY55150213 | 10Hz~44GHz | Jul. 03, 2025 | Nov. 24, 2025 | Jul. 02, 2026 | Radiation (03CH02-SZ) |
| Loop Antenna | R&S | HFH2-Z2E | 101141 | 9kHz~30MHz | Dec. 28, 2024 | Nov. 24, 2025 | Dec. 27, 2025 | Radiation (03CH02-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35407 | 30MHz-2GHz | Oct. 24, 2025 | Nov. 24, 2025 | Oct. 23, 2027 | Radiation (03CH02-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00119436 | 1GHz~18GHz | Jul. 04, 2025 | Nov. 24, 2025 | Jul. 04, 2026 | Radiation (03CH02-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 03, 2025 | Nov. 24, 2025 | Jul. 03, 2026 | Radiation (03CH02-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18Ghz-40GHz | Apr. 03, 2025 | Nov. 24, 2025 | Apr. 02, 2027 | Radiation (03CH02-SZ) |
| LF Amplifier | EM Electronics | EM330 | 060788 | 20MHz-3GHz | Dec. 25, 2024 | Nov. 24, 2025 | Dec. 24, 2025 | Radiation (03CH02-SZ) |
| HF Amplifier | KEYSIGHT | 83017A | MY53270105 | 0.5GHz~26.5Ghz | Oct. 14, 2025 | Nov. 24, 2025 | Oct. 13, 2026 | Radiation (03CH02-SZ) |
| AC Power Source | Chroma | 61601 | 616010003043 | N/A | Oct. 18, 2025 | Nov. 24, 2025 | Oct. 17, 2026 | Radiation (03CH02-SZ) |
| Turn Table | Chaintek | T-200 | N/A | 0~360 degree | NCR | Nov. 24, 2025 | NCR | Radiation (03CH02-SZ) |
| Antenna Mast | Chaintek | MBS-400 | N/A | 1 m~4 m | NCR | Nov. 24, 2025 | NCR | Radiation (03CH02-SZ) |
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 02, 2025 | Sep. 26, 2025~ Nov. 24, 2025 | Apr. 01, 2026 | Conducted (TH01-SZ) |
| Power Divider | TOJOIN | PS-2SM-04265 | 60.06.020.0077 | 0.4GHz~26.5GHz | Dec. 24, 2024 | Sep. 26, 2025~ Nov. 24, 2025 | Dec. 23, 2025 | Conducted (TH01-SZ) |
| DC Power Supply | TTI | PL330P | 290070 | Max 32V，3A | Oct. 13, 2025 | Sep. 26, 2025~ Nov. 24, 2025 | Oct. 12, 2026 | Conducted (TH01-SZ) |
| Thermal Chamber | Ten Billion Hongzhangroup | LP-150U | H2014081803 | -40~+150°C | Jul. 02, 2025 | Sep. 26, 2025~ Nov. 24, 2025 | Jul. 01, 2026 | Conducted (TH01-SZ) |

NCR: No Calibration Required

# 6 Measurement Uncertainty

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 Conducted Measurement**

| Test Item | Uncertainty |
|---|---|
| Conducted Spurious Emission & Bandedge | ±1.34 dB |
| Occupied Channel Bandwidth | ±0.012 MHz |
| Conducted Power | ±1.34 dB |
| Peak to Average Ratio | ±1.34 dB |
| Frequency Stability | ±1.3 Hz |

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

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

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

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

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

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

**---------- THE END ----------**

# Appendix A. Test Results of Conducted Test

| | | | |
|---|---|---|---|
| **Test Engineer :** | Khan Zhen | **Temperature :** | 22~23℃ |
| | | **Relative Humidity :** | 40~42% |

Software Version: 23.06.1602

# FR1 N14

## Transmitter Conducted Output Power And ERP, ($G_T$ - $L_C$)= -0.03 dB

| NR Band | SCS | Band Width | Arfcn | Freq (MHz) | Modulation | RB | Conducted Power (dBm) | ERP (dBm) | ERP(W) |
|---|---|---|---|---|---|---|---|---|---|
| 14 | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 12@6 | 23.21 | 21.03 | 0.1268 |
| 14 | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@1 | 24.2 | 22.02 | 0.1592 |
| 14 | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@23 | 24.31 | 22.13 | 0.1633 |
| 14 | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM 16 QAM | 12@6 | 23.26 | 21.08 | 0.1282 |
| 14 | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM 16 QAM | 1@1 | 23.28 | 21.1 | 0.1288 |
| 14 | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM 16 QAM | 1@23 | 23.29 | 21.11 | 0.1291 |
| 14 | 15 | 5 | 158600 | 793 | DFT-s-OFDM QPSK | 12@6 | 24.28 | 22.1 | 0.1622 |
| 14 | 15 | 5 | 158600 | 793 | DFT-s-OFDM QPSK | 1@1 | 24.31 | 22.13 | 0.1633 |
| 14 | 15 | 5 | 158600 | 793 | DFT-s-OFDM QPSK | 1@23 | 24.19 | 22.01 | 0.1589 |
| 14 | 15 | 5 | 158600 | 793 | DFT-s-OFDM 16 QAM | 12@6 | 23.11 | 20.93 | 0.1239 |
| 14 | 15 | 5 | 158600 | 793 | DFT-s-OFDM 16 QAM | 1@1 | 23.3 | 21.12 | 0.1294 |
| 14 | 15 | 5 | 158600 | 793 | DFT-s-OFDM 16 QAM | 1@23 | 23.19 | 21.01 | 0.1262 |
| 14 | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 12@6 | 24.13 | 21.95 | 0.1567 |
| 14 | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@1 | 24.35 | 22.17 | 0.1648 |
| 14 | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@23 | 24.1 | 21.92 | 0.1556 |
| 14 | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM 16 QAM | 12@6 | 23.02 | 20.84 | 0.1213 |
| 14 | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM 16 QAM | 1@1 | 23.3 | 21.12 | 0.1294 |
| 14 | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM 16 QAM | 1@23 | 23.06 | 20.88 | 0.1225 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM PI/2 BPSK | 25@12 | 24.2 | 22.02 | 0.1592 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM PI/2 BPSK | 1@1 | 24.13 | 21.95 | 0.1567 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM PI/2 BPSK | 1@50 | 23.89 | 21.71 | 0.1483 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM QPSK | 25@12 | 24.18 | 22 | 0.1585 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM QPSK | 1@1 | 24.36 | 22.18 | 0.1652 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM QPSK | 1@50 | 24.03 | 21.85 | 0.1531 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 16 QAM | 25@12 | 23.24 | 21.06 | 0.1276 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 16 QAM | 1@1 | 23.28 | 21.1 | 0.1288 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 16 QAM | 1@50 | 23.02 | 20.84 | 0.1213 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 64 QAM | 25@12 | 21.81 | 19.63 | 0.0918 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 64 QAM | 1@1 | 21.84 | 19.66 | 0.0925 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 64 QAM | 1@50 | 21.71 | 19.53 | 0.0897 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 256 QAM | 25@12 | 19.66 | 17.48 | 0.0560 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 256 QAM | 1@1 | 19.44 | 17.26 | 0.0532 |
| 14 | 15 | 10 | 158600 | 793 | DFT-s-OFDM 256 QAM | 1@50 | 19.24 | 17.06 | 0.0508 |
| 14 | 15 | 10 | 158600 | 793 | CP-OFDM QPSK | 26@13 | 22.68 | 20.5 | 0.1122 |
| 14 | 15 | 10 | 158600 | 793 | CP-OFDM QPSK | 1@1 | 22.72 | 20.54 | 0.1132 |
| 14 | 15 | 10 | 158600 | 793 | CP-OFDM QPSK | 1@50 | 22.51 | 20.33 | 0.1079 |

## Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Deviation (ppm) | Verdict | Environment |
|---|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0010 | **PASS** | NV |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0081 | **PASS** | LV |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0013 | **PASS** | HV |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0057 | **PASS** | -30℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0020 | **PASS** | -20℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0025 | **PASS** | -10℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0015 | **PASS** | 0℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0093 | **PASS** | 10℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0000 | **PASS** | 20℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0044 | **PASS** | 30℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0063 | **PASS** | 40℃ |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 0.0035 | **PASS** | 50℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0018 | **PASS** | NV |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0011 | **PASS** | LV |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0063 | **PASS** | HV |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0137 | **PASS** | -30℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0130 | **PASS** | -20℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0072 | **PASS** | -10℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0114 | **PASS** | 0℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0050 | **PASS** | 10℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0000 | **PASS** | 20℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0068 | **PASS** | 30℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0007 | **PASS** | 40℃ |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 0.0061 | **PASS** | 50℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0003 | **PASS** | NV |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0015 | **PASS** | LV |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0081 | **PASS** | HV |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0030 | **PASS** | -30℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0016 | **PASS** | -20℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM | 25@0 | 0.0010 | **PASS** | -10℃ |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | QPSK | | | | |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0029 | **PASS** | 0℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0055 | **PASS** | 10℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0000 | **PASS** | 20℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0040 | **PASS** | 30℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0019 | **PASS** | 40℃ |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 0.0077 | **PASS** | 50℃ |

## Frequency Stability

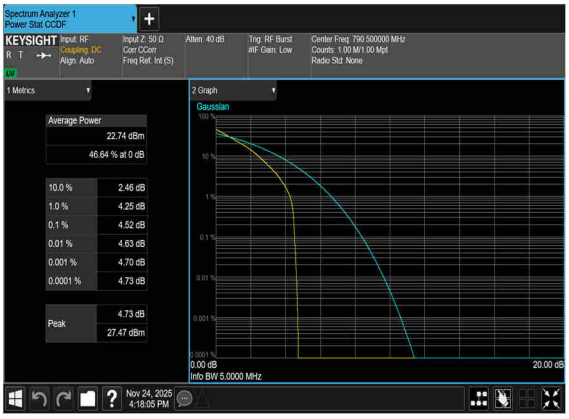
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Deviation (ppm) | Verdict | Environment |
|---|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0017 | **PASS** | NV |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0077 | **PASS** | LV |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0012 | **PASS** | HV |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0117 | **PASS** | -30℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0054 | **PASS** | -20℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0002 | **PASS** | -10℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0115 | **PASS** | 0℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0019 | **PASS** | 10℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0000 | **PASS** | 20℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0056 | **PASS** | 30℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0019 | **PASS** | 40℃ |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 0.0011 | **PASS** | 50℃ |

## Peak to Average Ratio

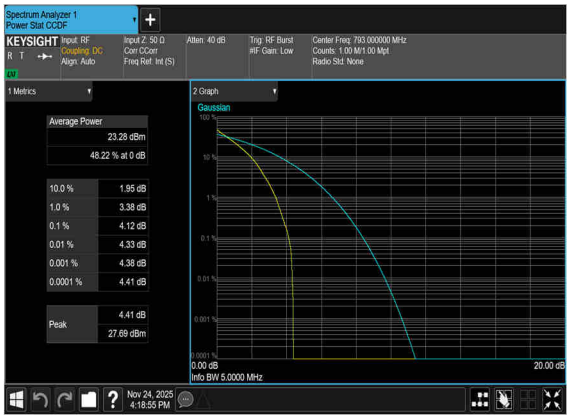
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result (dB) | Limit (dB) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM PI/2 BPSK | 25@0 | 4.07 | 13 | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | 4.52 | 13 | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM PI/2 BPSK | 25@0 | 4.12 | 13 | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | 4.76 | 13 | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM PI/2 BPSK | 25@0 | 4.15 | 13 | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | 4.77 | 13 | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM PI/2 BPSK | 50@0 | 3.88 | 13 | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | 4.63 | 13 | **PASS** |

N14(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH

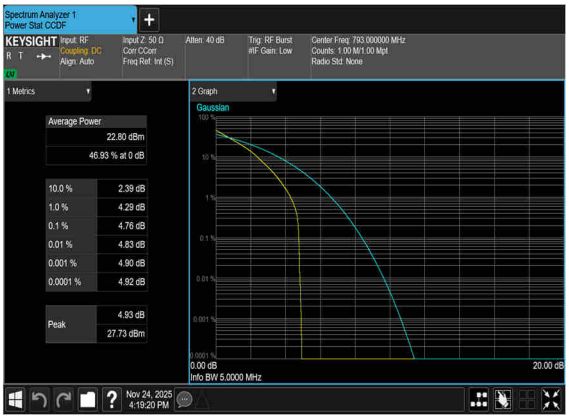
N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH




N14(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

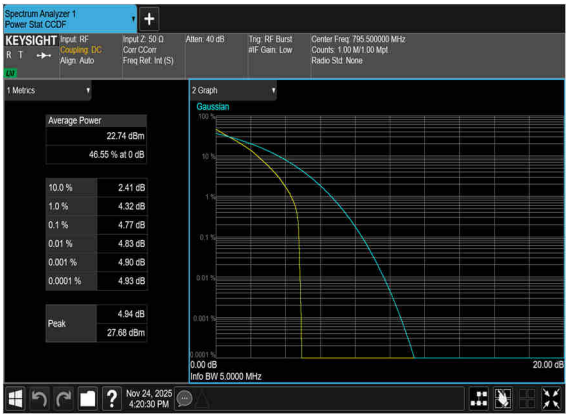



N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

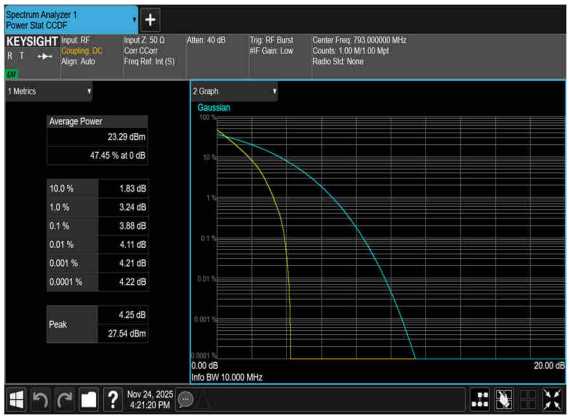


N14(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

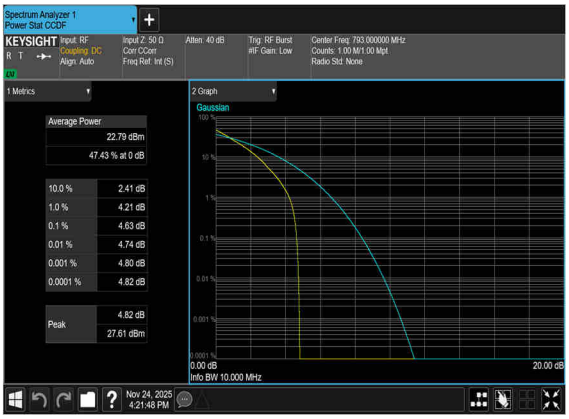
N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH




N14(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH




N14(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



## Occupied Bandwidth

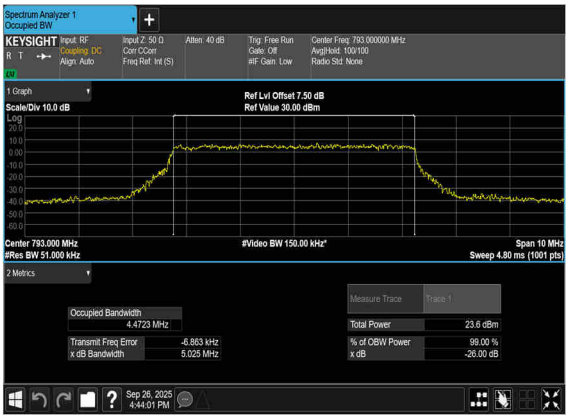
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB BW (MHz) |
|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 5 | 158600 | 793.0 | CP-OFDM QPSK | 25@0 | 4.4609 | 5.014 |
| **14** | 15 | 5 | 158600 | 793.0 | CP-OFDM 16 QAM | 25@0 | 4.4954 | 5.095 |
| **14** | 15 | 5 | 158600 | 793.0 | CP-OFDM 64 QAM | 25@0 | 4.4554 | 4.903 |
| **14** | 15 | 5 | 158600 | 793.0 | CP-OFDM 256 QAM | 25@0 | 4.4723 | 5.025 |
| **14** | 15 | 10 | 158600 | 793.0 | CP-OFDM QPSK | 52@0 | 9.2549 | 9.995 |
| **14** | 15 | 10 | 158600 | 793.0 | CP-OFDM 16 QAM | 52@0 | 9.2531 | 9.874 |
| **14** | 15 | 10 | 158600 | 793.0 | CP-OFDM 64 QAM | 52@0 | 9.2378 | 9.777 |
| **14** | 15 | 10 | 158600 | 793.0 | CP-OFDM 256 QAM | 52@0 | 9.2497 | 9.903 |

N14(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N14(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N14(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N14(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



N14(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N14(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

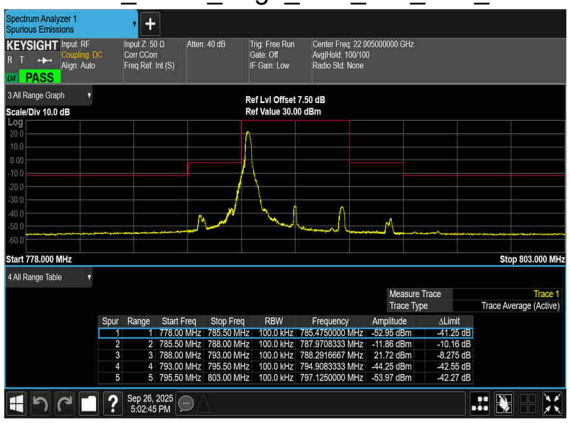
N14(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N14(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

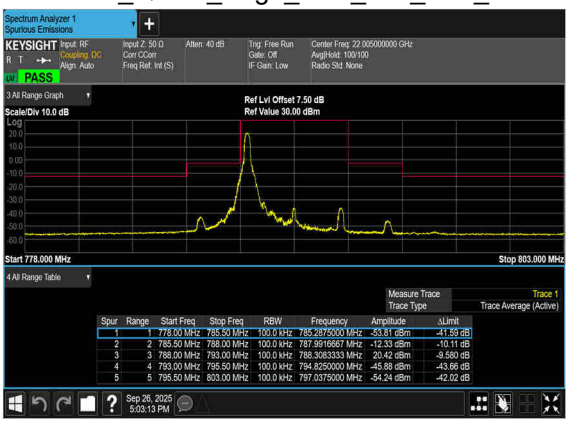
## Emission Mask

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Limit (dBm/MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@51 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@51 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 50@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | see graph | **PASS** |

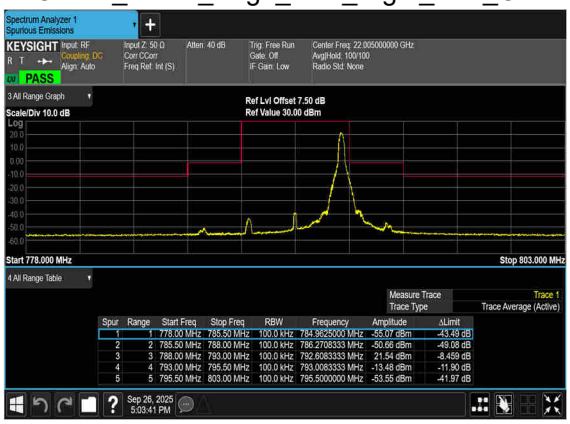
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



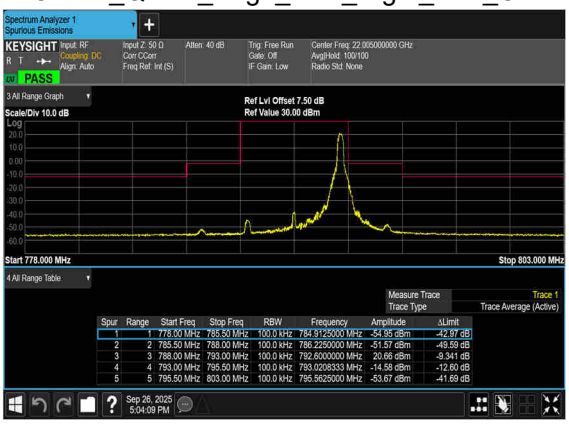

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



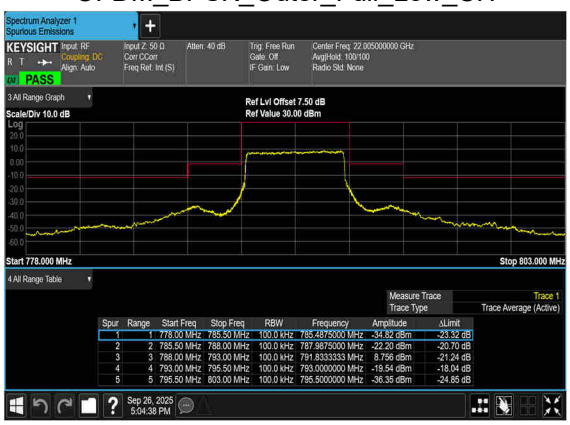

N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



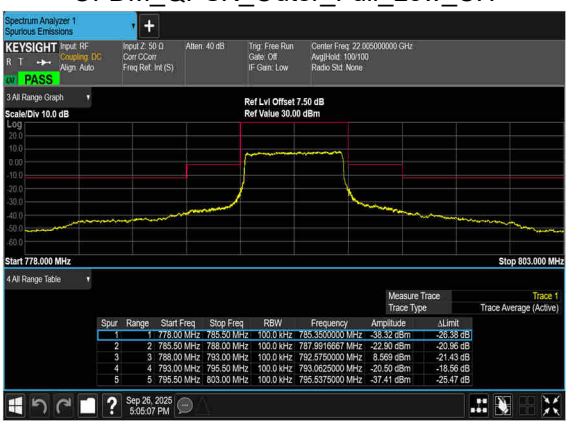

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



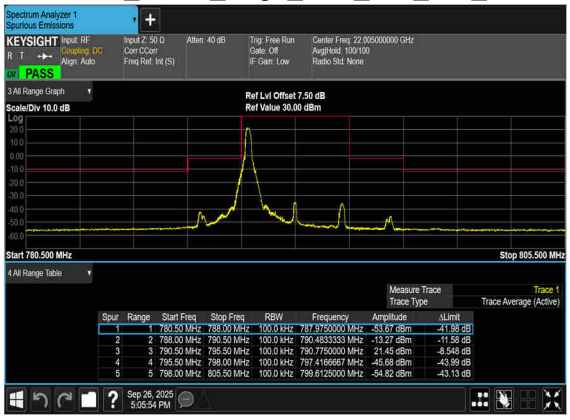
N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



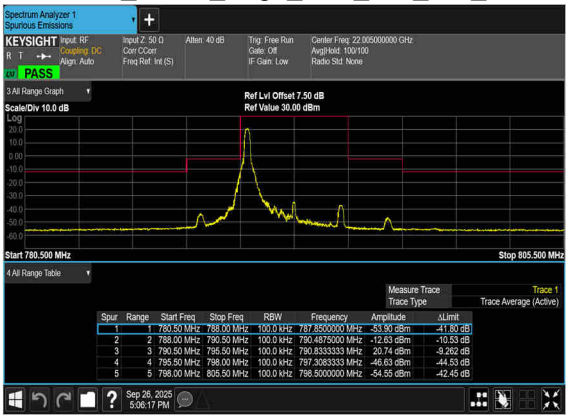

N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



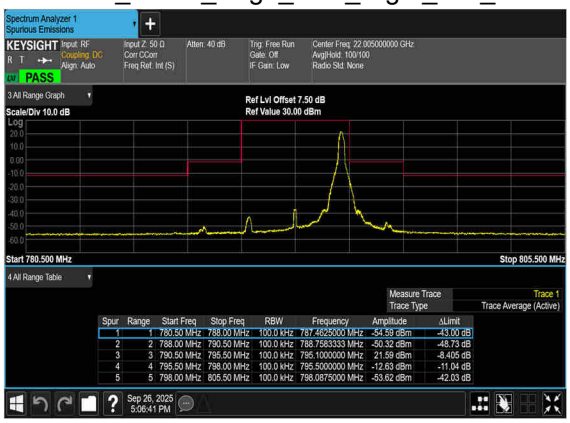

N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



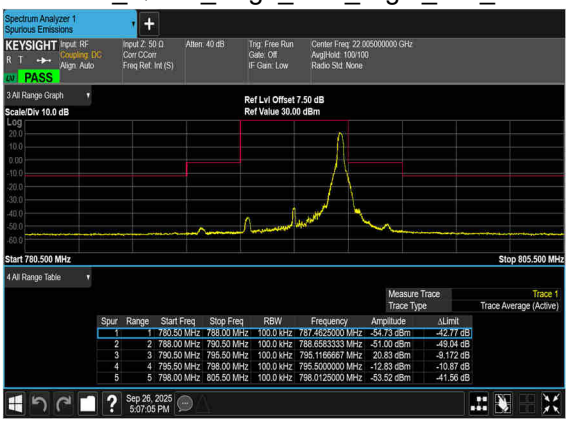

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



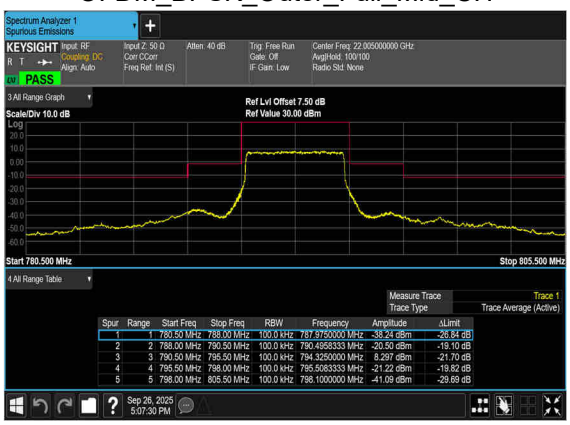
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



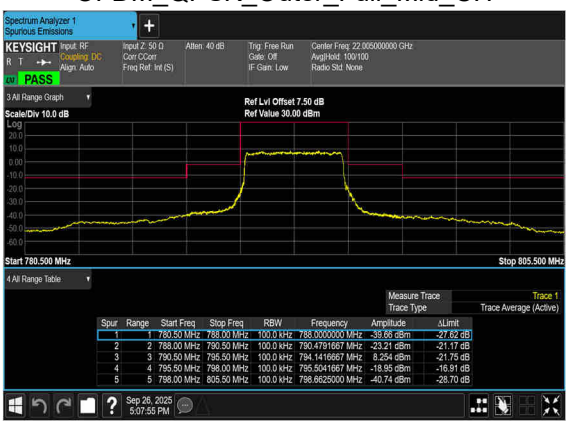

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



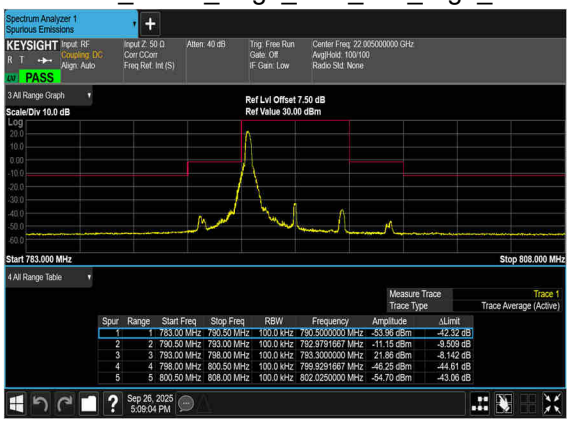

N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



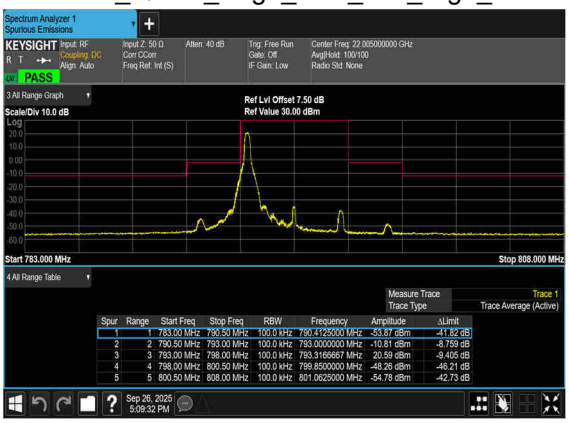

N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



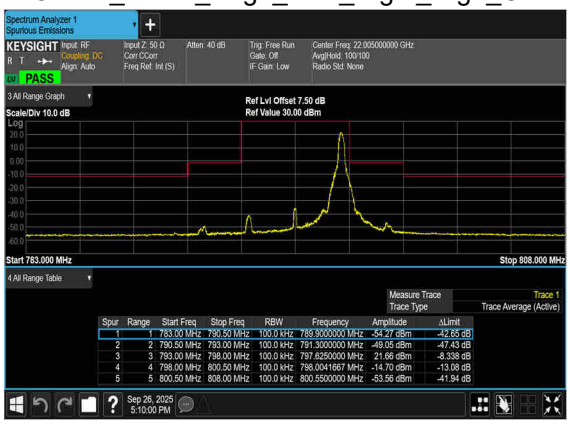
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



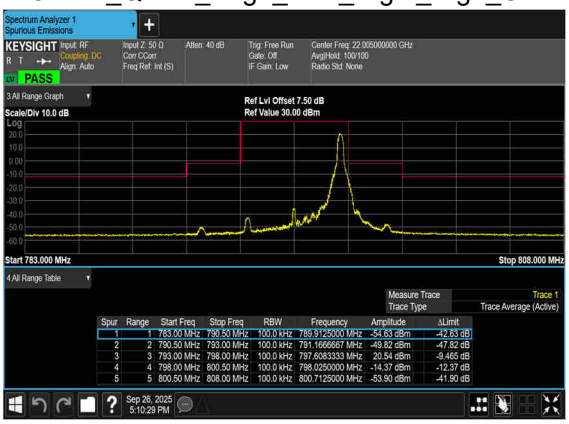

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



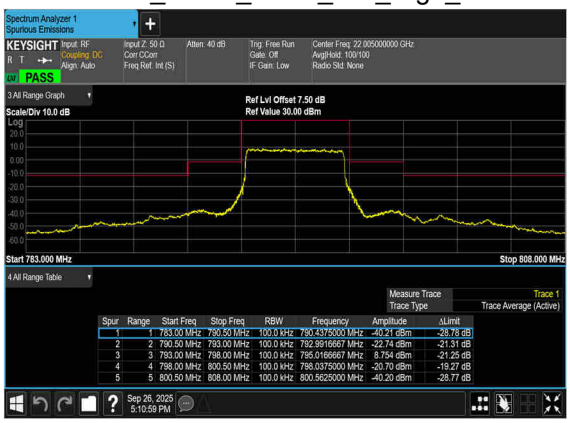

N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



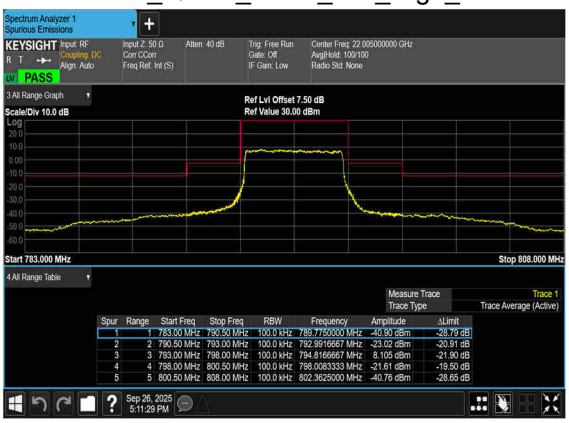

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



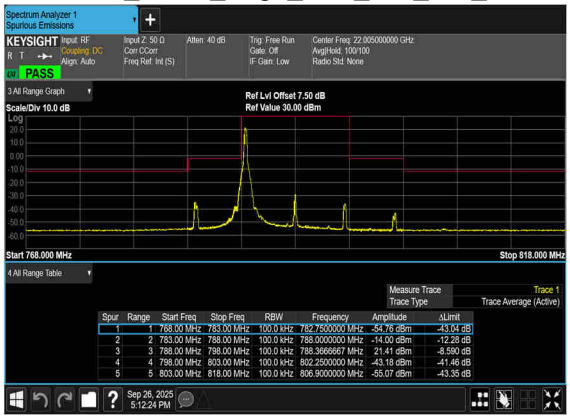
N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH




N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

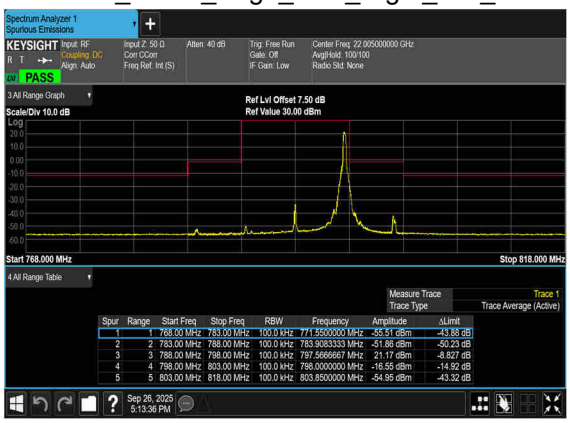



N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

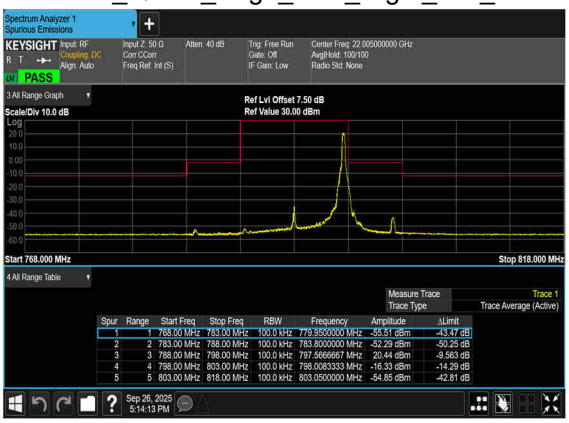



N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

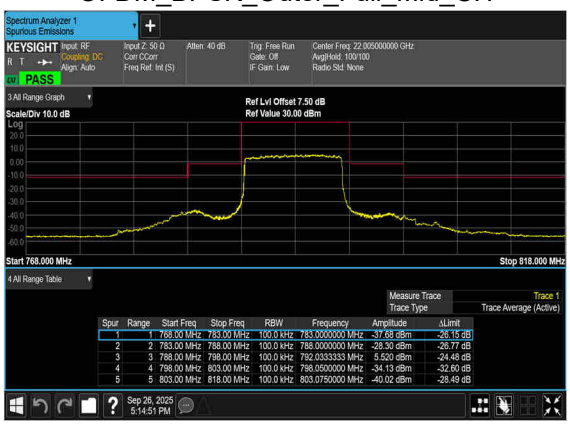
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



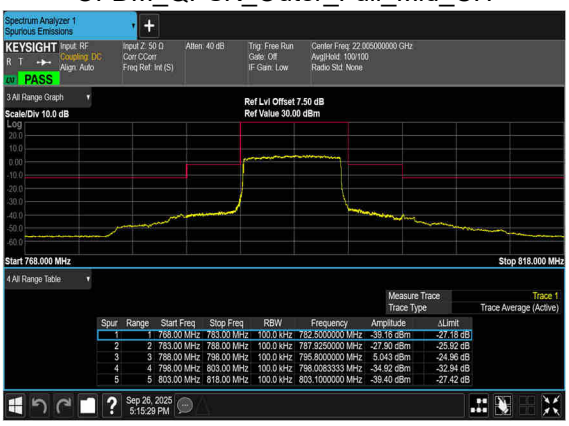

N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH




N14(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



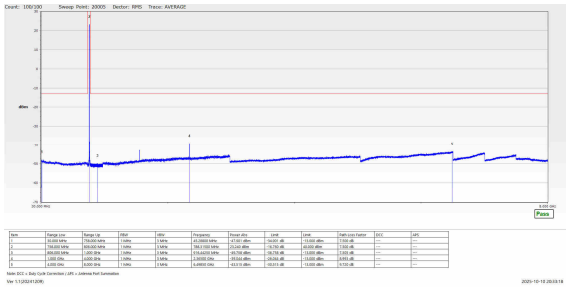

N14(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



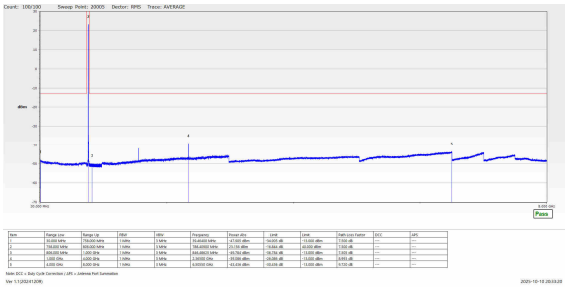
## Conducted Spurious Emissions

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **---** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **---** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **---** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **---** |
| **14** | 15 | 5 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **---** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **---** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **---** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **---** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |

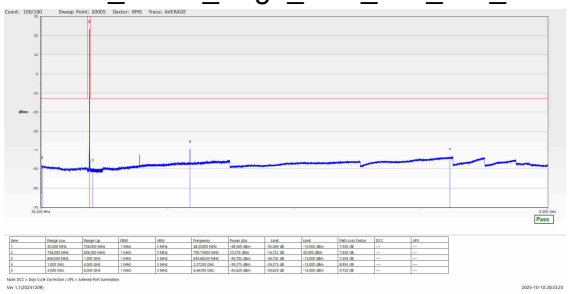
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



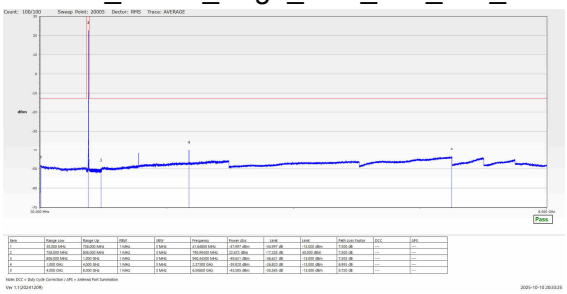
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



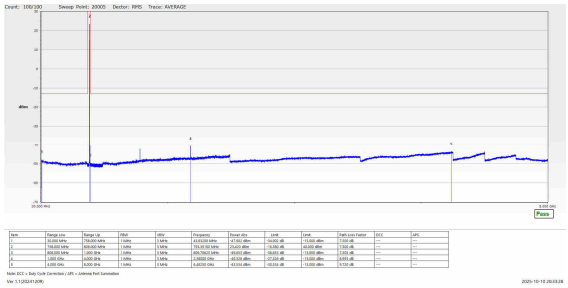
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



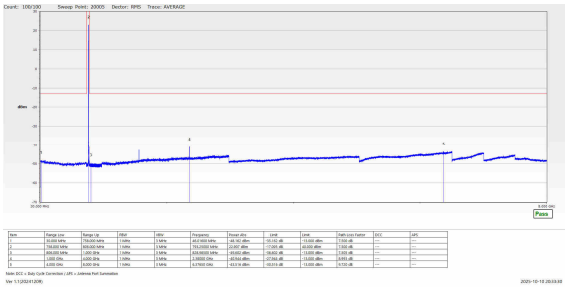
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



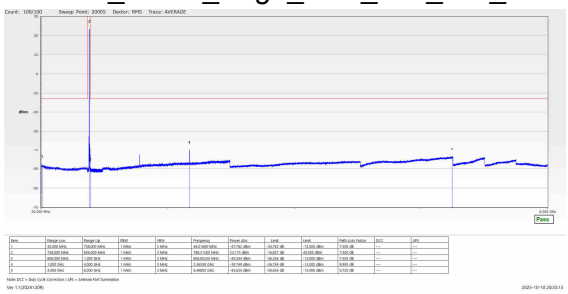
N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



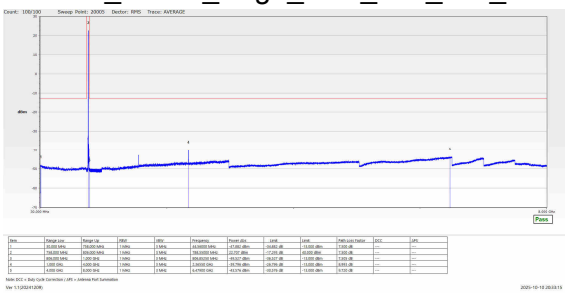
N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



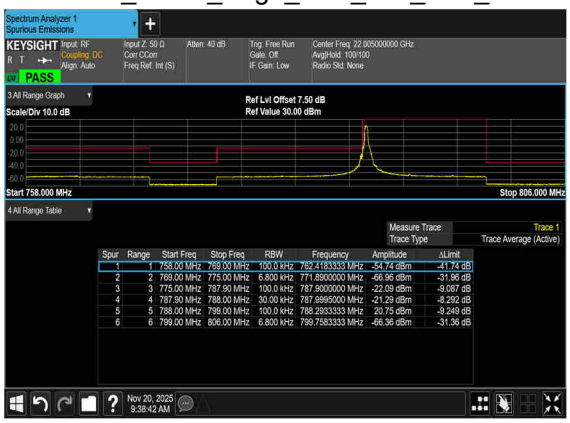
N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



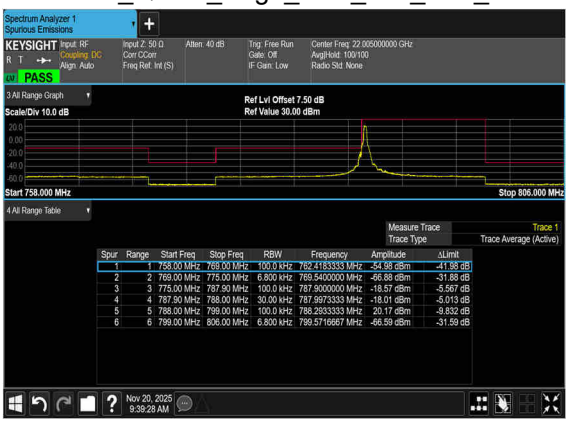
## Conducted Band Edge

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---|---|---|---|---|---|---|---|---|
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 158100 | 790.5 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 1@24 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 5 | 159100 | 795.5 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 1@51 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 1@51 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM BPSK | 50@0 | see graph | **PASS** |
| **14** | 15 | 10 | 158600 | 793.0 | DFT-s-OFDM QPSK | 50@0 | see graph | **PASS** |

N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



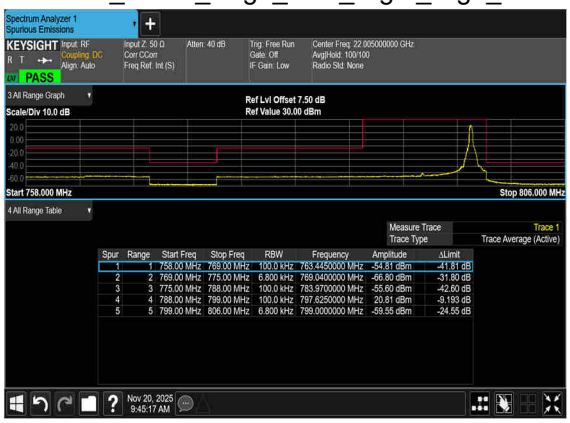

N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH




N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N14(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH




N14(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

N14(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N14(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

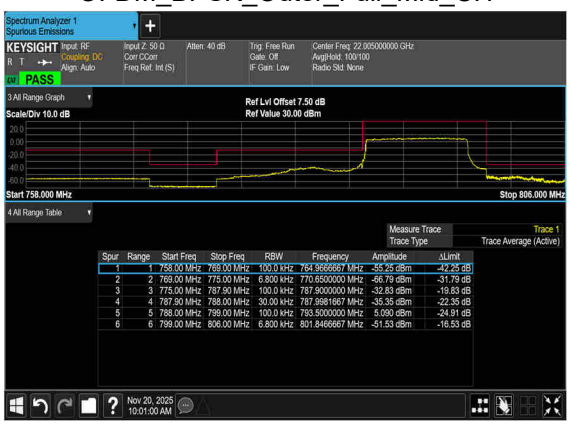
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

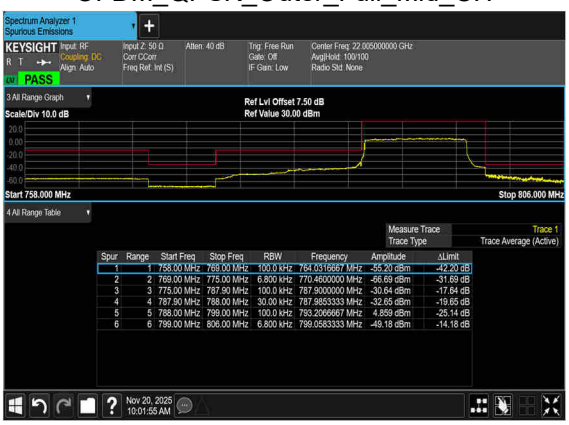
N14(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

N14(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

N14(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH




N14(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



# Appendix B. Test Results of Radiated Test

## Field Strength of Spurious Radiated

| Test Engineer : | LiangPingZhou | Temperature : | 22~25℃ |
|---|---|---|---|
| | | Relative Humidity : | 48~52% |

| 5G NR n14 SA / NR 5MHz / QPSK/ Ant8 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1577 | -65.92 | -42.15 | -23.77 | -75.42 | -69.15 | 3.98 | 9.36 | H |
| | 2365.5 | -63.68 | -13 | -50.68 | -77.95 | -67.23 | 4.85 | 10.55 | H |
| | 3154 | -62.01 | -13 | -49.01 | -78.72 | -66.94 | 5.50 | 12.58 | H |
| | 1577 | -65.79 | -42.15 | -23.64 | -75.42 | -69.02 | 3.98 | 9.36 | V |
| | 2365.5 | -63.82 | -13 | -50.82 | -78.08 | -67.37 | 4.85 | 10.55 | V |
| | 3154 | -62.12 | -13 | -49.12 | -78.83 | -67.05 | 5.50 | 12.58 | V |
| Middle | 1582 | -65.62 | -42.15 | -23.47 | -75.12 | -68.87 | 4.00 | 9.40 | H |
| | 2373 | -63.58 | -13 | -50.58 | -77.79 | -67.15 | 4.88 | 10.60 | H |
| | 3164 | -62.16 | -13 | -49.16 | -78.90 | -67.09 | 5.52 | 12.60 | H |
| | 1582 | -65.35 | -42.15 | -23.20 | -74.98 | -68.60 | 4.00 | 9.40 | V |
| | 2373 | -63.97 | -13 | -50.97 | -78.17 | -67.54 | 4.88 | 10.60 | V |
| | 3164 | -62.02 | -13 | -49.02 | -78.76 | -66.95 | 5.52 | 12.60 | V |
| Highest | 1587 | -66.23 | -42.15 | -24.08 | -75.62 | -69.40 | 4.10 | 9.42 | H |
| | 2380.5 | -63.58 | -13 | -50.58 | -77.79 | -67.16 | 4.90 | 10.63 | H |
| | 3174 | -61.84 | -13 | -48.84 | -78.67 | -66.76 | 5.55 | 12.62 | H |
| | 1587 | -66.01 | -42.15 | -23.86 | -75.59 | -69.18 | 4.10 | 9.42 | V |
| | 2380.5 | -64.00 | -13 | -51.00 | -78.20 | -67.58 | 4.90 | 10.63 | V |
| | 3174 | -62.05 | -13 | -49.05 | -78.86 | -66.97 | 5.55 | 12.62 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| 5G NR n14 SA / NR 10MHz / QPSK/ Ant8 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1577 | -65.66 | -42.15 | -23.51 | -75.16 | -68.91 | 4.00 | 9.40 | H |
| | 2365.5 | -63.41 | -13 | -50.41 | -77.68 | -66.98 | 4.88 | 10.60 | H |
| | 3154 | -62.04 | -13 | -49.04 | -78.75 | -66.97 | 5.52 | 12.60 | H |
| | 1577 | -64.80 | -42.15 | -22.65 | -74.43 | -68.05 | 4.00 | 9.40 | V |
| | 2365.5 | -63.72 | -13 | -50.72 | -77.98 | -67.29 | 4.88 | 10.60 | V |
| | 3154 | -62.12 | -13 | -49.12 | -78.83 | -67.05 | 5.52 | 12.60 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_30A_n14A / LTE 5MHz + NR 5MHz / QPSK (ANT5+8) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n14 Low | 1577 | -60.20 | -42.15 | -18.05 | -69.70 | -75.87 | 3.98 | 9.36 | H |
| | 2365.5 | -61.82 | -13 | -48.82 | -76.09 | -76.93 | 4.85 | 10.55 | H |
| | 3154 | -63.57 | -13 | -50.57 | -59.72 | -78.65 | 5.50 | 12.58 | H |
| | 1577 | -61.25 | -42.15 | -19.10 | -70.88 | -75.94 | 3.98 | 9.36 | V |
| | 2365.5 | -61.90 | -13 | -48.90 | -76.16 | -76.51 | 4.85 | 10.55 | V |
| | 3154 | -63.91 | -13 | -50.91 | -60.06 | -78.79 | 5.50 | 12.58 | V |
| LTE Band30 Low | 4610.50 | -59.65 | -40 | -19.65 | -61.78 | -65.90 | 6.45 | 12.70 | H |
| | 6915.75 | -59.53 | -40 | -19.53 | -65.12 | -62.93 | 8.40 | 11.80 | H |
| | 9221.00 | -56.72 | -40 | -16.72 | -67.12 | -59.07 | 9.65 | 12.00 | H |
| | 4610.50 | -59.55 | -40 | -19.55 | -62.06 | -65.80 | 6.45 | 12.70 | V |
| | 6915.75 | -59.10 | -40 | -19.10 | -65.17 | -62.50 | 8.40 | 11.80 | V |
| | 9221.00 | -57.72 | -40 | -17.72 | -67.3 | -60.07 | 9.65 | 12.00 | V |
| NR n14 Middle | 1582 | -61.25 | -42.15 | -19.10 | -70.75 | -64.50 | 4.00 | 9.40 | H |
| | 2373 | -62.47 | -13 | -49.47 | -76.68 | -66.04 | 4.88 | 10.60 | H |
| | 3164 | -62.56 | -13 | -49.56 | -58.72 | -67.49 | 5.52 | 12.60 | H |
| | 1582 | -62.21 | -42.15 | -20.06 | -71.84 | -65.46 | 4.00 | 9.40 | V |
| | 2373 | -62.43 | -13 | -49.43 | -76.63 | -66.00 | 4.88 | 10.60 | V |
| | 3164 | -63.41 | -13 | -50.41 | -59.57 | -68.34 | 5.52 | 12.60 | V |
| LTE Band30 Middle | 4615.50 | -59.57 | -40 | -19.57 | -61.74 | -65.82 | 6.45 | 12.70 | H |
| | 6923.25 | -59.73 | -40 | -19.73 | -65.32 | -63.13 | 8.40 | 11.80 | H |
| | 9231.00 | -56.19 | -40 | -16.19 | -66.61 | -58.54 | 9.65 | 12.00 | H |
| | 4615.50 | -59.44 | -40 | -19.44 | -61.99 | -65.69 | 6.45 | 12.70 | V |
| | 6923.25 | -58.90 | -40 | -18.90 | -64.97 | -62.30 | 8.40 | 11.80 | V |
| | 9231.00 | -57.55 | -40 | -17.55 | -67.15 | -59.90 | 9.65 | 12.00 | V |
| NR n14 High | 1587 | -60.82 | -42.15 | -18.67 | -70.21 | -63.99 | 4.10 | 9.42 | H |
| | 2380.5 | -62.34 | -13 | -49.34 | -76.55 | -65.92 | 4.90 | 10.63 | H |
| | 3174 | -62.65 | -13 | -49.65 | -58.91 | -67.57 | 5.55 | 12.62 | H |
| | 1587 | -61.85 | -42.15 | -19.70 | -71.43 | -65.02 | 4.10 | 9.42 | V |
| | 2380.5 | -62.46 | -13 | -49.46 | -76.66 | -66.04 | 4.90 | 10.63 | V |
| | 3174 | -63.44 | -13 | -50.44 | -59.68 | -68.36 | 5.55 | 12.62 | V |
| LTE Band30 High | 4620.50 | -59.54 | -40 | -19.54 | -61.73 | -65.79 | 6.45 | 12.70 | H |
| | 6930.75 | -59.63 | -40 | -19.63 | -65.36 | -63.03 | 8.40 | 11.80 | H |
| | 9241.00 | -56.60 | -40 | -16.60 | -67.09 | -58.95 | 9.65 | 12.00 | H |
| | 4620.50 | -59.42 | -40 | -19.42 | -61.99 | -65.67 | 6.45 | 12.70 | V |
| | 6930.75 | -59.17 | -40 | -19.17 | -65.37 | -62.57 | 8.40 | 11.80 | V |
| | 9241.00 | -57.37 | -40 | -17.37 | -67.02 | -59.72 | 9.65 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_30A_n14A / LTE 10MHz + NR 10MHz / QPSK (ANT5+8) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n14 Middle | 1577 | -63.43 | -42.15 | -21.28 | -72.93 | -66.68 | 4.00 | 9.40 | H |
| | 2365.5 | -62.48 | -13 | -49.48 | -76.75 | -66.05 | 4.88 | 10.60 | H |
| | 3154 | -63.53 | -13 | -50.53 | -59.68 | -68.46 | 5.52 | 12.60 | H |
| | 1577 | -62.01 | -42.15 | -19.86 | -71.64 | -65.26 | 4.00 | 9.40 | V |
| | 2365.5 | -62.40 | -13 | -49.40 | -76.66 | -65.97 | 4.88 | 10.60 | V |
| | 3154 | -63.54 | -13 | -50.54 | -59.69 | -68.47 | 5.52 | 12.60 | V |
| LTE Band30 Middle | 4611.00 | -59.22 | -40 | -19.22 | -61.35 | -65.47 | 6.45 | 12.70 | H |
| | 6916.50 | -59.66 | -40 | -19.66 | -65.25 | -63.06 | 8.40 | 11.80 | H |
| | 9222.00 | -57.11 | -40 | -17.11 | -67.52 | -59.46 | 9.65 | 12.00 | H |
| | 4611.00 | -59.33 | -40 | -19.33 | -61.84 | -65.58 | 6.45 | 12.70 | V |
| | 6916.50 | -59.45 | -40 | -19.45 | -65.52 | -62.85 | 8.40 | 11.80 | V |
| | 9222.00 | -57.76 | -40 | -17.76 | -67.35 | -60.11 | 9.65 | 12.00 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.