# FCC Test Report

Report No.: AGC12060240301FR04

| | | |
|---|---|---|
| **FCC ID** | : | 2AY4C-GAX01 |
| **APPLICATION PURPOSE** | : | Original Equipment |
| **PRODUCT DESIGNATION** | : | Mini PC |
| **BRAND NAME** | : | GEEKOM, geeknuc |
| **MODEL NAME** | : | AX8 Max, XT***Pro, XT***Max, A***, A***Pro, A***Max, AX***, AX***Pro, AX***Max, AE***, AE***Pro, AE***Max, GT***, GT***Max, GT***Pro, XU***, XU***Pro, XU***Max, AG***Pro, AG***Max, GT***Ultra, GT***Mega, U***Ultra, U*** Mega, XT***Ultra, XT***Mega, IT***Ultra, IT***Mega(*= 0-9,A-Z,a-z,“"-”or blank) |
| **APPLICANT** | : | Shenzhen Jiteng Network Technology Co., Ltd |
| **DATE OF ISSUE** | : | Jul. 11, 2024 |
| **STANDARD(S)** | : | FCC Part 15 Subpart E §15.407 |
| **REPORT VERSION** | : | V1.0 |

Attestation of Global Compliance (Shenzhen) Co., Ltd

***A**ttestation of **G**lobal **C**ompliance (Shenzhen) Co., Ltd*

## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Jul. 11, 2024 | Valid | Initial Release |

**Table of Contents**

## 1. General Information

| | |
|---|---|
| Applicant | Shenzhen Jiteng Network Technology Co., Ltd |
| Address | Floor 7, Building B, Boton Science and Technology Park, Chaguang Road, Xili Street, Nanshan District, Shenzhen,China |
| Manufacturer | Shenzhen Jiteng Network Technology Co., Ltd |
| Address | Floor 7, Building B, Boton Science and Technology Park, Chaguang Road, Xili Street, Nanshan District, Shenzhen,China |
| Factory | China Greatwall Technology Group Co., Ltd.Shiyan Branch |
| Address | Great-Wall Computer Industry Park, Baoshi East Rd.Shiyan County, Baoan, Shenzhen, P.R.China |
| Product Designation | Mini PC |
| Brand Name | GEEKOM, geeknuc |
| Test Model | AX8 Max |
| Series Model(s) | XT***Pro, XT***Max, A***, A***Pro, A***Max, AX***, AX***Pro, AX***Max, AE***, AE***Pro, AE***Max, GT***, GT***Max, GT***Pro, XU***, XU***Pro, XU***Max, AG***Pro, AG***Max, GT***Ultra, GT***Mega, U***Ultra, U*** Mega, XT***Ultra, XT***Mega, IT***Ultra, IT***Mega(*= 0-9,A-Z,a-z,“"-”or blank) |
| Difference Description | Please review the manufacturer's model difference statement |
| Date of receipt of test item | Mar. 14, 2024 |
| Date of Test | Mar. 14, 2024~Jul. 11, 2024 |
| Deviation from Standard | No any deviation from the test method |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| Test Report Form No | AGCER-FCC-5G WLAN-V1 |

Note: The test results of this report relate only to the tested sample identified in this report.

| | | |
|---|---|---|
| Prepared By | Alan Duan<br>(Project Engineer) | Jul. 11, 2024 |
| Reviewed By | Calvin Liu<br>(Reviewer) | Jul. 11, 2024 |
| Approved By | Max Zhang<br>Authorized Officer | Jul. 11, 2024 |

## 2. Product Information

### 2.1 Product Technical Description

| | |
|---|---|
| Equipment Type | ☐ Outdoor access points ☐ Indoor access points<br>☐ Fixed P2P access points ☒ Client devices |
| Operation Frequency | ☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2A: 5250MHz~5350MHz<br>☒ U-NII 2C:5470MHz~5725MHz ☒ U-NII 3: 5725MHz~5850MHz |
| DFS Design Type | ☐ Master ☐ Slave with radar detection ☒ Slave without radar detection |
| TPC Function | ☐ Yes ☒ No |
| Hardware Version | NUCPN01_MB_V20 |
| Software Version | Windows 11 |
| Test Frequency Range | For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz<br>For 802.11n-HT40/ac/ax-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz<br>For 802.11ac/ax-VHT80: 5210MHz, 5290MHz, 5530~5690MHz, 5775MHz<br>For 802.11ac/ax-VHT160:5250MHz, 5570MHz |
| RF Output Power | IEEE 802.11a(HT20):12.50dBm; IEEE 802.11n(HT20):12.07dBm;<br>IEEE802.11n(HT40):12.04dBm; IEEE 802.11ac(VHT20):12.32dBm;<br>IEEE802.11ac(VHT40):12.41dBm; IEEE802.11ac(VHT80):12.74dBm;<br>IEEE802.11ac(HE160):10.21dBm;IEEE802.11ax(HE20):12.65dBm;<br>IEEE802.11ax(HE40):12.67dBm;IEEE802.11ax(HE80):12.64dBm;<br>IEEE802.11ax(HE160):9.77dBm; |
| RF Output Power_MIMO | IEEE 802.11nHT(20):14.14dBm;IEEE802.11n(HT40):14.19dBm<br>IEEE 802.11ac(VHT20):14.29dBm; IEEE802.11ac(VHT40):14.40dBm;<br>IEEE802.11ac(VHT80):14.56dBm; IEEE802.11ac(HE160):12.83dBm<br>IEEE802.11ax(HE20):14.56dBm;IEEE802.11ax(HE40):14.44dBm;<br>IEEE802.11ax(HE80):14.43dBm; IEEE802.11ax(HE160):12.47dBm; |
| Modulation | 802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM<br>802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM<br>802.11ax :(1024-QAM,256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA |
| Data Rate | 802.11a:6/9/12/18/24/36/48/54Mbps;<br>802.11n:up to 300Mbps;<br>802.11ac:up to 866.6Mbps;<br>802.11ax:up to 1201Mbps |
| Number of channels | 7 channels of U-NII-1 Band<br>7 channels of U- NII-2A Band<br>19 channels of U-NII-2C Band<br>8 channels of U- NII 3 Band<br>1 channels of U- NII 1+2A Band |

| | |
|---|---|
| Antenna Designation | Chain A: Iron Antenna(MAIN ANT)<br>Chain B: Iron Antenna(AUX ANT) |
| Antenna Gain | Refer to Chapter 2.9 of the report. |
| Power Supply | DC 19V for by adapter |

## 2.2 Table of Carrier Frequency

**For 5180~5240MHz:**

**4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 36 | 5180 MHz | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |

**2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 38 | 5190 MHz | 46 | 5230 MHz |

**1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 42 | 5210 MHz | -- | -- |

**For 5260~5320MHz:**

**5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 52 | 5260 MHz | 60 | 5300 MHz |
| 56 | 5280 MHz | 64 | 5320 MHz |

**2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 54 | 5270 MHz | 62 | 5310 MHz |

**1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 58 | 5290 MHz | -- | -- |

**For 5500~5700MHz:**

**11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 100 | 5500 MHz | 124 | 5620 MHz |
| 104 | 5520 MHz | 128 | 5640 MHz |
| 108 | 5540 MHz | 132 | 5660 MHz |
| 112 | 5560 MHz | 136 | 5680 MHz |
| 116 | 5580 MHz | 140 | 5700 MHz |
| 120 | 5600 MHz | | |

**5 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 102 | 5510 MHz | 126 | 5630 MHz |
| 110 | 5550 MHz | 134 | 5670 MHz |
| 118 | 5590 MHz | | |

**2 channels is provided for 802.11ac (VHT80), 802.11ax (HE80):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 106 | 5530 MHz | 122 | 5610 MHz |

**For 5180~5240MHz+5260~5320MHz (U-NII 1+U-NII 2A)**

**1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):**

| Channel | Frequency |
|---|---|
| 50 | 5250 MHz |

**For 5500~5700MHz (U-NII 2C)**

**1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):**

| Channel | Frequency |
|---|---|
| 114 | 5570 MHz |

**For 5745~5825MHz:**

**5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 149 | 5745 MHz | 161 | 5805 MHz |
| 153 | 5765 MHz | 165 | 5825 MHz |
| 157 | 5785 MHz | -- | -- |

**2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 151 | 5755 MHz | 159 | 5795 MHz |

**1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):**

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 155 | 5775 MHz | -- | -- |

**2.3 IEEE 802.11n Modulation Scheme**

| MCS Index | Nss | Modulation | R | $N_{BPSC}$ | $N_{CBPS}$ | | $N_{DBPS}$ | | Data rate (Mbps) 800nsGI | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 |
| 1 | 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 489 | 58.5 | 121.5 |
| 7 | 1 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 |

| Symbol | Explanation |
|---|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPSC | Number of coded bits per single carrier |
| NCBPS | Number of coded bits per symbol |
| NDBPS | Number of data bits per symbol |
| GI | Guard interval |

### 2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for **FCC ID: 2AY4C-GAX01** filing to comply with the FCC Part 15 requirements.

### 2.5 Test Methodology

| No. | Identity | Document Title |
|---|---|---|
| 1 | FCC 47 CFR Part 2 | Frequency allocations and radio treaty matters; general rules and regulations |
| 2 | FCC 47 CFR Part 15 | Radio Frequency Devices |
| 3 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |
| 4 | KDB 662911 | 662911 D01 Multiple Transmitter Output v02r01 |
| 5 | KDB 789033 | 789033 D02 General U-NII Test Procedures New Rules v02r01 |

### 2.6 Special Accessories

Refer to section 4.4.

### 2.7 Equipment Modifications

Not available for this EUT intended for grant.

### 2.8 Antenna Requirement

| Standard Requirement |
|---|
| **15.203 requirement:**<br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |
| **EUT Antenna:** |
| The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna refer to Section 2.9 of the report |

**2.9 Description of Available Antennas**

| Antenna Type | Frequency Band (MHz) | TX Paths | Bandwidth (MHz) | Max Peak Gain (dBi) | | Max Directional Gain (dBi) |
|---|---|---|---|---|---|---|
| | | | | Ant 1 | Ant 2 | |
| 5G WIFI Iron Antenna List (5GHz 2*2 MIMO) | | | | | | |
| Iron Antenna | 5150 ~ 5250 | 2 | 20,40,80 | 2.53 | 2.16 | 5.54 |
| | 5250 ~ 5350 | 2 | 20,40,80 | 2.53 | 2.16 | 5.54 |
| | 5470 ~ 5725 | 2 | 20,40,80 | 2.53 | 2.16 | 5.54 |
| | 5725 ~ 5850 | 2 | 20,40,80 | 2.53 | 2.16 | 5.54 |
| Antenna Type | Frequency Band (MHz) | TX Paths | Bandwidth (MHz) | Max Peak Gain (dBi) | | Max Directional Gain (dBi) |
| | | | | Ant 1 | Ant 2 | |
| 5G WIFI Iron Antenna List (5GHz 2*2 MIMO) | | | | | | |
| Iron Antenna | 5150 ~ 5350 | 2 | 160 | 2.53 | 2.16 | 5.54 |
| | 5470 ~ 5725 | 2 | 160 | 2.53 | 2.16 | 5.54 |

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ac/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, $G_{ANT}$, Directional gain = $G_{ANT}$ + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

  Array Gain = 10 log ($N_{ANT}$/ $N_{SS}$) dB = 3.01;

- For power measurements on IEEE 802.1devices:

  Array Gain = 0 dB for $N_{ANT} \leq 4$;

  Array Gain = 0 dB (i.e., no array gain) for channel widths ≥40 MHz for any $N_{ANT}$;

  Array Gain = 5 log($N_{ANT}$/$N_{SS}$) dB or 3 dB, whichever is less, for 20 MHz channel widths with $N_{ANT} \geq 5$.

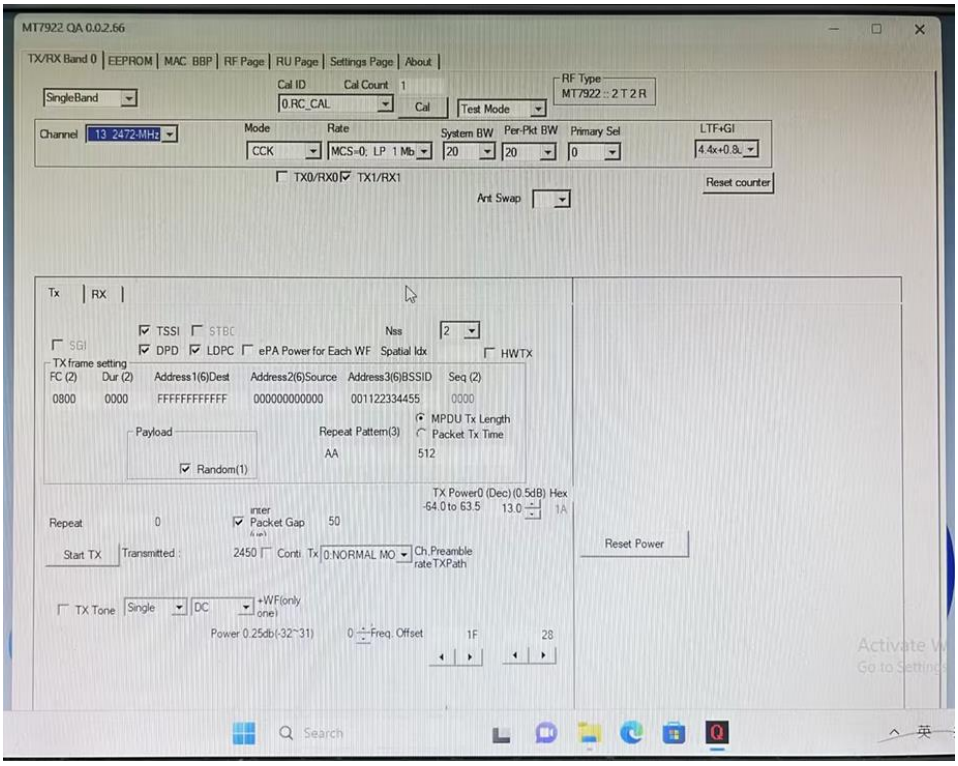
If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with $G_{ANT}$ set equal to the gain of the antenna having the highest gain.

## 2.11 Description of Test Software

**For IEEE 802.11 mode:**

The test utility software used during testing was “MT7922.OA”, and the version was “0.0.2.66”.

Software Setting Diagram



| Test Mode 5150MHz~5250MHz | Channel | Power Index | |
|---|---|---|---|
| | | Chain A | Chain B |
| 802.11a | L/M/H | 12.5 | 12.5 |
| 802.11n(HT20) | L/M/H | 12.5 | 12.5 |
| 802.11n(HT40) | L/M/H | 12.5 | 12.5 |
| 802.11ac(VHT20) | L/M/H | 12.5 | 12.5 |
| 802.11ac(VHT40) | L/M/H | 12.5 | 12.5 |
| 802.11ac(VHT80) | L/M/H | 12.5 | 12.5 |
| 802.11ax(HE20) | L/M/H | 12 | 12 |
| 802.11ax(HE40) | L/M/H | 12 | 12 |
| 802.11ax(HE80) | L/M/H | 12 | 12 |
| Test Mode 5250MHz~5350MHz | Channel | Power Index | |
| | | Chain A | Chain B |
| 802.11a | L/M/H | 10 | 10 |
| 802.11n(HT20) | L/M/H | 10 | 10 |
| 802.11n(HT40) | L/M/H | 10 | 10 |
| 802.11ac(VHT20) | L/M/H | 10 | 10 |
| 802.11ac(VHT40) | L/M/H | 10 | 10 |
| 802.11ac(VHT80) | L/M/H | 10 | 10 |
| 802.11ax(HE20) | L/M/H | 9.5 | 9.5 |
| 802.11ax(HE40) | L/M/H | 9.5 | 9.5 |
| 802.11ax(HE80) | L/M/H | 9.5 | 9.5 |
| Test Mode 5470MHz~5725MHz | Channel | Power Index | |
| | | Chain A | Chain B |
| 802.11a | L/M/H | 10 | 10 |
| 802.11n(HT20) | L/M/H | 10 | 10 |
| 802.11n(HT40) | L/M/H | 10 | 10 |
| 802.11ac(VHT20) | L/M/H | 10 | 10 |
| 802.11ac(VHT40) | L/M/H | 10 | 10 |
| 802.11ac(VHT80) | L/M/H | 10 | 10 |
| 802.11ax(HE20) | L/M/H | 9.5 | 9.5 |
| 802.11ax(HE40) | L/M/H | 9.5 | 9.5 |
| 802.11ax(HE80) | L/M/H | 9.5 | 9.5 |
| Test Mode 5725MHz~5850MHz | Channel | Power Index | |
| | | Chain A | Chain B |
| 802.11a | L/M/H | 12 | 12 |
| 802.11n(HT20) | L/M/H | 12 | 12 |
| 802.11n(HT40) | L/M/H | 12 | 12 |
| 802.11ac(VHT20) | L/M/H | 12 | 12 |
| 802.11ac(VHT40) | L/M/H | 12 | 12 |
| 802.11ac(VHT80) | L/M/H | 12 | 12 |
| 802.11ax(HE20) | L/M/H | 11.5 | 11.5 |

| | | | |
|---|---|---|---|
| 802.11ax(HE40) | L/M/H | 11.5 | 11.5 |
| 802.11ax(HE80) | L/M/H | 11.5 | 11.5 |

| Test Mode<br>5150MHz~5350MHz | Channel | Power Index | |
|---|---|---|---|
| | | Chain A | Chain B |
| 802.11ac(VHT160) | L/M/H | 9.5 | 9.5 |
| 802.11ax(HE160) | L/M/H | 9.5 | 9.5 |
| Test Mode<br>5500MHz~5700MHz | Channel | Power Index | |
| | | Chain A | Chain B |
| 802.11ac(VHT160) | L/M/H | 9.5 | 9.5 |
| 802.11ax(HE160) | L/M/H | 9.5 | 9.5 |

# 3. Test Environment

## 3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

## 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

**CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

**A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

**FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

**IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

### 3.3 Environmental Conditions

| | Normal Conditions |
|---|---|
| Temperature range (℃) | 15 - 35 |
| Relative humidity range | 20% - 75% |
| Pressure range (kPa) | 86 - 106 |
| Power supply | DC 19V |

### 3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

| Item | Measurement Uncertainty |
|---|---|
| Uncertainty of Conducted Emission for AC Port | $U_c$ = ±2.9 dB |
| Uncertainty of Radiated Emission below 1GHz | $U_c$ = ±3.9 dB |
| Uncertainty of Radiated Emission above 1GHz | $U_c$ = ±4.9 dB |
| Uncertainty of total RF power, conducted | $U_c$ = ±0.8 dB |
| Uncertainty of RF power density, conducted | $U_c$ = ±2.6 dB |
| Uncertainty of spurious emissions, conducted | $U_c$ = ±2 % |
| Uncertainty of Occupied Channel Bandwidth | $U_c$ = ±2.7 % |

### 3.5 List of Equipment Used

| ● RF Conducted Test System | | | | | | | |
|---|---|---|---|---|---|---|---|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ☒ | AGC-ER-E036 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2023-06-01 | 2024-05-31 |
| ☒ | AGC-ER-E036 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2024-05-24 | 2025-05-23 |
| ☒ | AGC-ER-E061 | Spectrum Analyzer | Agilent | N9020A | MY52090123 | 2023-06-03 | 2024-06-02 |
| ☒ | AGC-ER-E061 | Spectrum Analyzer | Agilent | N9020A | MY52090123 | 2024-05-28 | 2025-05-27 |
| ☐ | AGC-ER-E062 | Power Sensor | Agilent | U2021XA | MY54110007 | 2024-02-01 | 2025-01-31 |
| ☐ | AGC-ER-E063 | Power Sensor | Agilent | U2021XA | MY54110009 | 2024-02-01 | 2025-01-31 |
| ☒ | AGC-EM-A152 | 6dB Attenuator | Eeatsheep | LM-XX-6-5W | N/A | 2023-06-09 | 2025-06-08 |
| ☐ | AGC-ER-E083 | Signal Generator | Agilent | E4421B | US39340815 | 2023-06-01 | 2024-05-31 |
| ☐ | AGC-ER-E083 | Signal Generator | Agilent | E4421B | US39340815 | 2024-05-23 | 2025-05-22 |
| ☒ | N/A | RF Connection Cable | N/A | 1# | N/A | Each time | N/A |
| ☒ | N/A | RF Connection Cable | N/A | 2# | N/A | Each time | N/A |

| ● Radiated Spurious Emission | | | | | | | |
|---|---|---|---|---|---|---|---|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ☐ | AGC-EM-E046 | EMI Test Receiver | R&S | ESCI | 10096 | 2024-02-01 | 2025-01-31 |
| ☒ | AGC-EM-E116 | EMI Test Receiver | R&S | ESCI | 100034 | 2023-06-03 | 2024-06-02 |
| ☒ | AGC-EM-E116 | EMI Test Receiver | R&S | ESCI | 100034 | 2024-05-24 | 2025-05-23 |
| ☒ | AGC-EM-E061 | Spectrum Analyzer | Agilent | N9010A | MY53470504 | 2023-06-01 | 2024-05-31 |
| ☒ | AGC-EM-E061 | Spectrum Analyzer | Agilent | N9010A | MY53470504 | 2024-05-28 | 2025-05-27 |
| ☒ | AGC-EM-E086 | Loop Antenna | ZHINAN | ZN30900C | 18051 | 2024-03-05 | 2026-03-04 |
| ☒ | AGC-EM-E001 | Wideband Antenna | SCHWARZBECK | VULB9168 | D69250 | 2023-05-11 | 2025-05-10 |
| ☒ | AGC-EM-E029 | Broadband Ridged Horn Antenna | ETS | 3117 | 00034609 | 2023-04-02 | 2024-04-01 |
| ☒ | AGC-EM-E029 | Broadband Ridged Horn Antenna | ETS | 3117 | 00034609 | 2024-03-31 | 2025-03-30 |
| ☒ | AGC-EM-E082 | Horn Antenna | SCHWARZBECK | BBHA 9170 | #768 | 2023-09-24 | 2025-09-23 |
| ☒ | AGC-EM-E146 | Pre-amplifier | ETS | 3117-PA | 00246148 | 2022-08-04 | 2024-08-03 |
| ☒ | AGC-EM-A119 | 2.4G Filter | SongYi | N/A | N/A | 2023-06-01 | 2024-05-31 |
| ☒ | AGC-EM-A119 | 2.4G Filter | SongYi | N/A | N/A | 2024-05-23 | 2025-05-22 |
| ☒ | AGC-EM-A138 | 6dB Attenuator | Eeatsheep | LM-XX-6-5W | N/A | 2023-06-09 | 2025-06-08 |
| ☐ | AGC-EM-A139 | 6dB Attenuator | Eeatsheep | LM-XX-6-5W | N/A | 2023-06-09 | 2025-06-08 |

| ● AC Power Line Conducted Emission | | | | | | | |
|---|---|---|---|---|---|---|---|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ☒ | AGC-EM-E045 | EMI Test Receiver | R&S | ESPI | 101206 | 2023-06-03 | 2024-06-02 |
| ☒ | AGC-EM-E045 | EMI Test Receiver | R&S | ESPI | 101206 | 2024-05-28 | 2025-05-27 |
| ☒ | AGC-EM-A130 | 6dB Attenuator | Eeatsheep | LM-XX-6-5W | DC-6GZ | 2023-06-09 | 2025-06-08 |
| ☒ | AGC-EM-E023 | AMN | R&S | 100086 | ESH2-Z5 | 2023-06-03 | 2024-06-02 |
| ☒ | AGC-EM-E023 | AMN | R&S | 100086 | ESH2-Z5 | 2024-05-28 | 2025-05-27 |

| ● Test Software | | | | | |
|---|---|---|---|---|---|
| Used | Equipment No. | Test Equipment | Manufacturer | Model No. | Version Information |
| ☒ | AGC-EM-S001 | CE Test System | R&S | ES-K1 | V1.71 |
| ☒ | AGC-EM-S003 | RE Test System | FARA | EZ-EMC | VRA-03A |
| ☒ | AGC-ER-S012 | BT/WIFI Test System | Tonscend | JS1120-2 | 2.6 |
| ☒ | AGC-EM-S011 | RSE Test System | Tonscend | TS+-Ver2.1(JS36-RSE) | 4.0.0.0 |

# 4.System Test Configuration

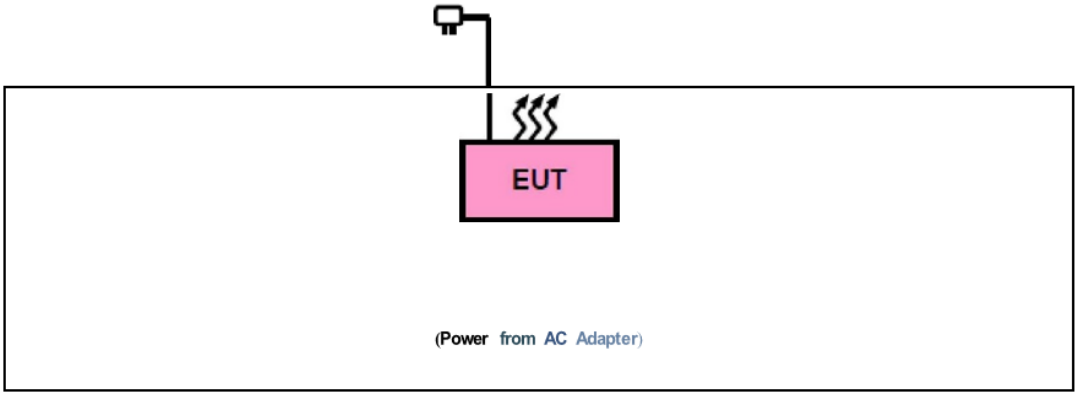
## 4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

## 4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

## 4.3 Configuration of Tested System




## 4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

| No. | Equipment | Manufacturer | Model No. | Specification Information | Cable |
|---|---|---|---|---|---|
| 1 | Earphone | CXT | N/A | N/A | 1.2m unshielded |
| 2 | Keyboard | Dell | SK-8120 | N/A | 1.8m,unshielded |
| 3 | Mouse | Dell | EMS-537A | N/A | 1.7m,unshielded |
| 4 | U Disc | Kingston | DT100G3 | 32G | N/A |

☒ Test Accessories Come From The Manufacturer

| No. | Equipment | Manufacturer | Model No. | Specification Information | Cable |
|---|---|---|---|---|---|
| 1 | Adapter 1# | Shenzhen Hyleton Technology Co., Ltd. | Hyleton-120W-1906320 | Input: AC 100-240V 50/60Hz, 2A<br>Output: DC 19V 6.32A | 3.5m |
| 2 | Adapter 2# | SHENZHEN BSY TECHNOLOGY CO.,LTD. | BSY120S1906323D | Input: AC 100-240V 50/60Hz, 2.5A<br>Output: DC 19V 6.32A | 3.5m |
| 3 | Adapter 3# | FSP Group Inc. | FSP120-ABBU3 | Input: AC 100-240V 50/60Hz, 1.4A<br>Output: DC 19V 6.32A | 3.5m |

**4.5 Summary of Test Results**

| Item | FCC Rules | Description Of Test | Result |
|---|---|---|---|
| 1 | §15.203 | Antenna Equipment | Pass |
| 2 | §15.407(a/1/2/3) | RF Output Power | Pass |
| 3 | §15.407(e) | 6dB Bandwidth Measurement | Pass |
| 4 | §15.403(i) | 26dB bandwidth Measurement | Pass |
| 5 | §15.407(g) | Frequency Stability | Pass (See Note 1) |
| 6 | §15.407(C) | Transmission Discontinuation Requirement | Pass (See Note 2) |
| 7 | §15.407(a/1/2/3) | Power Spectral Density | Pass |
| 8 | §15.407(b)(1/2/3/4/5) | Conducted Band Edge and Out-of-Band Emissions | Pass |
| 9 | §15.209,§15.407(b) (1/2/3/4/5) | Radiated Spurious Emission | Pass |
| 10 | §15.207 | AC Power Line Conducted Emission | Pass |

Note:

1. The manufacturer has corresponding claims in the operating description and user manual that it meets th e specified frequency range reguirements.
2. The device will automatically discontinue transmission in cases of absence of information to transmit, or operational failure.

## 5. Description of Test Modes

| EUT Configure Mode | Applicable To | | | | Description |
|---|---|---|---|---|---|
| | RE > 1G | RE < 1G | PLC | APCM | |
| A | ☒ | ☒ | ☒ | -- | Powered by Adapter with WIFI(5G) Link |
| B | -- | -- | -- | ☐ | Powered by Battery with WIFI(5G) Link |
| C | -- | -- | -- | -- | Powered by USB with WIFI(5G) Link |

Where, **RE > 1G: Radiated Emission above 1GHz** **PLC: Power Line Conducted Emission**

**RE < 1G: Radiated Emission below 1GHz** **APCM: Antenna Port Conducted Measurement**

NOTE 1: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

NOTE 2: "--"means no effect.

NOTE 3: The radiation part tests the dual-antenna MIMO as the worst combination.

NOTE 4: Radiation test evaluation: The main test model and series models are pre-tested with 3 adapters, and the appearance of the main test model (model: AX8 Max) and the 3 adapters is recorded as the worst res ult; the difference in the shell of the power supply end interference part is ignored and only the appearance of t he main test model (model: AX8 Max) and the 3 adapters is recorded as the worst result.

NOTE5:Regarding Radiated Band Edge, as the worst result, only the main test appearance (model: AX8 Max) is reflected with adapter 1#.

**Radiated Emission Test (Above 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (IF EUT with antenna diversity architecture).

☒ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode | Freq. Band (MHz) | Available Channel | Tested Channel | Modulation | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| A | 802.11n (20MHz) | 5180-5240 | 36 to 48 | 36, 40, 48 | OFDM | MCS0 |
| A | 802.11n (20MHz) | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | MCS0 |
| A | 802.11n (20MHz) | 5500-5700 | 100 to 140 | 100, 120, 140 | OFDM | MCS0 |
| A | 802.11n (20MHz) | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | MCS0 |

- **Radiated Emission Test (Below 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).

☒ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode | Freq. Band (MHz) | Available Channel | Tested Channel | Modulation | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| A | 802.11n(20MHz) | 5180-5240 | 36 to 48 | 36 | OFDM | MCS0 |

- **Power Line Conducted Emission Test:**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
☒ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode | Freq. Band (MHz) | Available Channel | Tested Channel | Modulation | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| A | 802.11n(20MHz) | 5180-5240 | 36 to 48 | 36 | OFDM | MCS0 |

- **Band edge Measurement:**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).
☒ The device under test has multiple antennas. The mode that supports MIMO technology records the worst data, and the mode that does not support MIMO technology records antenna 1 as the worst data.
☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode | Freq. Band (MHz) | Available Channel | Tested Channel | Modulation | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| A | 802.11a | 5180-5240 | 36 to 48 | 36 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 38 to 46 | 38 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 42 | 42 | OFDM | MCS0 |
| A | 802.11ax (80MHz) | | 42 | 42 | OFDMA | MCS0 |
| A | 802.11a | 5260-5320 | 52 to 64 | 64 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 54 to 62 | 62 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 58 | 58 | OFDM | MCS0 |
| A | 802.11ax (80MHz) | | 58 | 58 | OFDMA | MCS0 |
| A | 802.11a | 5500-5700 | 100 to 140 | 100 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 102 to 134 | 102 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 106,122 | 106 | OFDM | MCS0 |
| A | 802.11ax (80MHz) | | 106,122 | 106 | OFDMA | MCS0 |

Note: Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

- **Antenna Port Conducted Measurement:**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations be Meen available modulations, data rates and antenna ports (If EUT with antenna diversity architecture).

☒ The 802.11ax only supports the Full RU test configuration.

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Mode | Freq. Band (MHz) | Available Channel | Tested Channel | Modulation | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| A | 802.11a | 5180-5240 | 36 to 48 | 36, 40, 48 | OFDM | 6.0 |
| A | 802.11n (20MHz) | | 36 to 48 | 36, 40, 48 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 38 to 46 | 38, 46 | OFDM | MCS0 |
| A | 802.11ac (20MHz) | | 36 to 48 | 36, 40, 48 | OFDM | MCS0 |
| A | 802.11ac (40MHz) | | 38 to 46 | 38, 46 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 42 | 42 | OFDM | MCS0 |
| A | 802.11ax (20MHz) | | 36 to 48 | 36, 40, 48 | OFDMA | MCS0 |
| A | 802.11ax (40MHz) | | 38 to 46 | 38, 46 | OFDMA | MCS0 |
| A | 802.11ax (80MHz) | | 42 | 42 | OFDMA | MCS0 |
| A | 802.11ac (160MHz) | 5180-5320 | 50 | 50 | OFDM | MCS0 |
| A | 802.11ax (160MHz) | | | | OFDMA | MCS0 |
| A | 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | 6.0 |
| A | 802.11n (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | MCS0 |
| A | 802.11ac (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | MCS0 |
| A | 802.11ac (40MHz) | | 54 to 62 | 54, 62 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 58 | 58 | OFDM | MCS0 |
| A | 802.11ax (20MHz) | | 52 to 64 | 52, 60, 64 | OFDMA | MCS0 |
| A | 802.11ax (40MHz) | | 54 to 62 | 54, 62 | OFDMA | MCS0 |
| A | 802.11ax (80MHz) | | 58 | 58 | OFDMA | MCS0 |
| A | 802.11a | 5500-5700 | 100 to 140 | 100, 120, 140 | OFDM | 6.0 |
| A | 802.11n (20MHz) | | 100 to 140 | 100, 120, 140 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | MCS0 |
| A | 802.11ac (20MHz) | | 100 to 140 | 100, 120, 140 | OFDM | MCS0 |
| A | 802.11ac (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 106,122 | 106, 122 | OFDM | MCS0 |
| A | 802.11ac (160MHz) | | 114 | 114 | OFDM | MCS0 |
| A | 802.11ax (20MHz) | | 100 to 140 | 100, 120, 140 | OFDMA | MCS0 |
| A | 802.11ax (40MHz) | | 102 to 134 | 102, 110, 134 | OFDMA | MCS0 |
| A | 802.11ax (80MHz) | | 106,122 | 106, 122 | OFDMA | MCS0 |
| A | 802.11ax (160MHz) | | 114 | 114 | OFDMA | MCS0 |
| A | 802.11a | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | 6.0 |
| A | 802.11n (20MHz) | | 149 to 165 | 149, 157, 165 | OFDM | MCS0 |
| A | 802.11n (40MHz) | | 151 to 159 | 151, 159 | OFDM | MCS0 |
| A | 802.11ac (20MHz) | | 149 to 165 | 149, 157, 165 | OFDM | MCS0 |
| A | 802.11ac (40MHz) | | 151 to 159 | 151, 159 | OFDM | MCS0 |
| A | 802.11ac (80MHz) | | 155 | 155 | OFDM | MCS0 |
| A | 802.11ax (20MHz) | | 149 to 165 | 149, 157, 165 | OFDMA | MCS0 |
| A | 802.11ax (40MHz) | | 151 to 159 | 151, 159 | OFDMA | MCS0 |
| A | 802.11ax (80MHz) | | 155 | 155 | OFDMA | MCS0 |

## 6. Duty Cycle Measurement

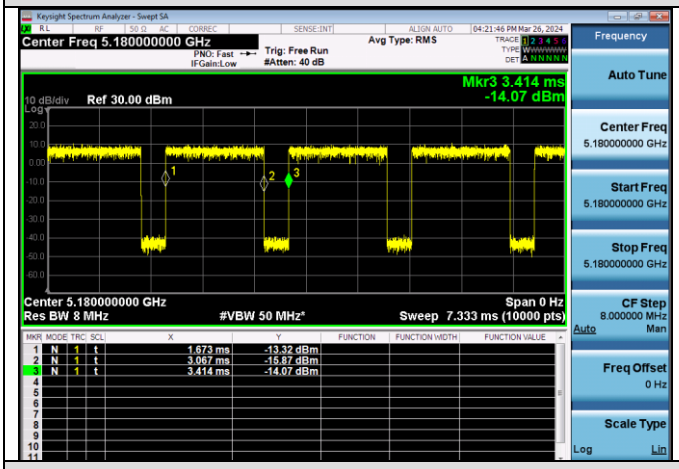
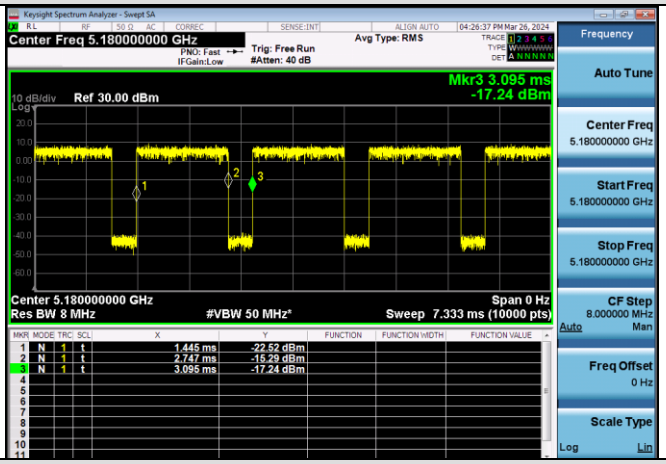
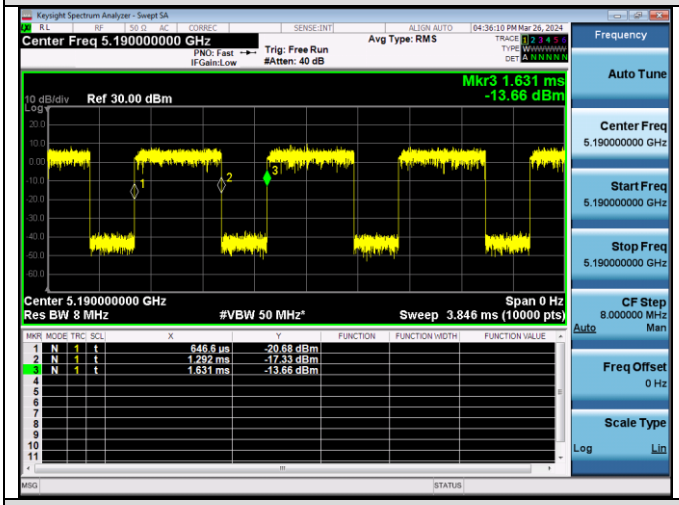
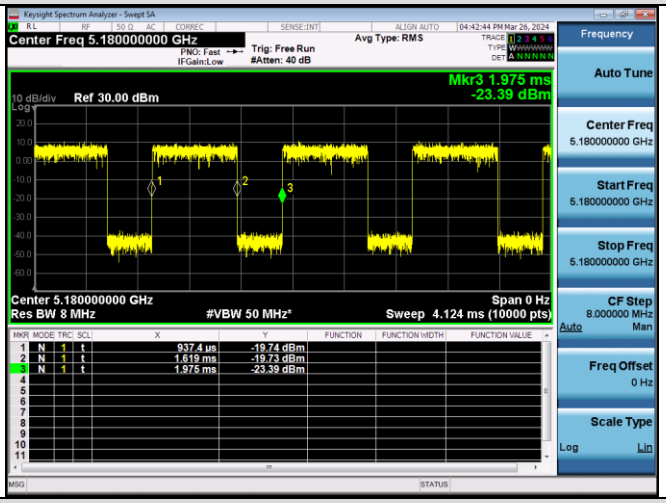
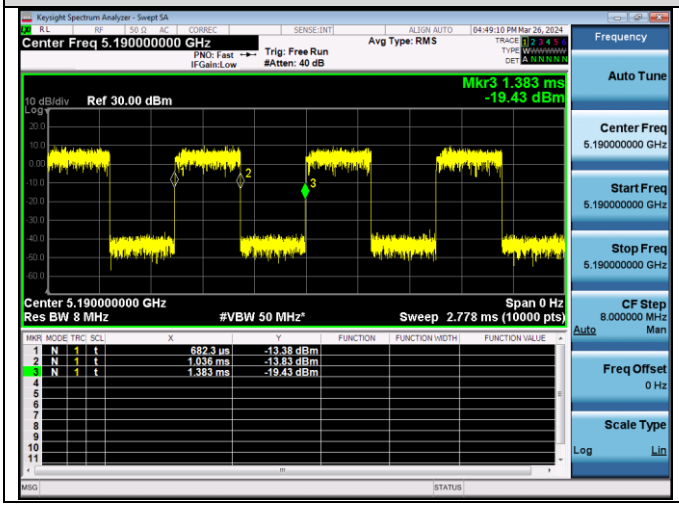
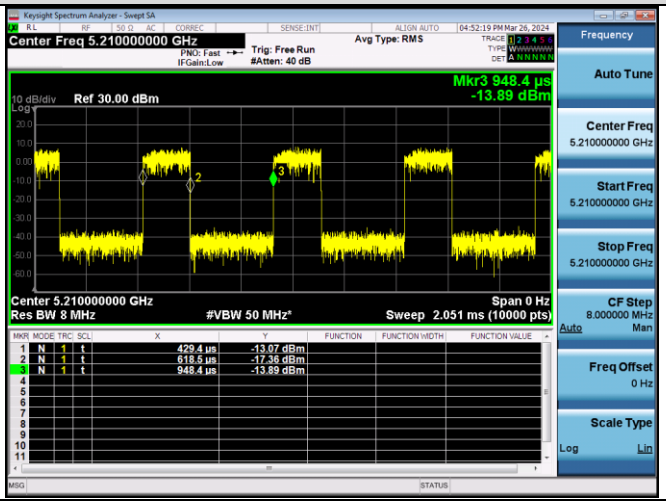
5GHz WLAN (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

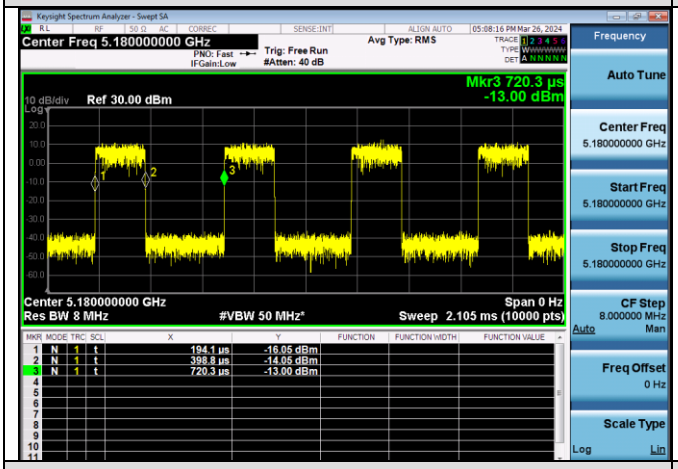
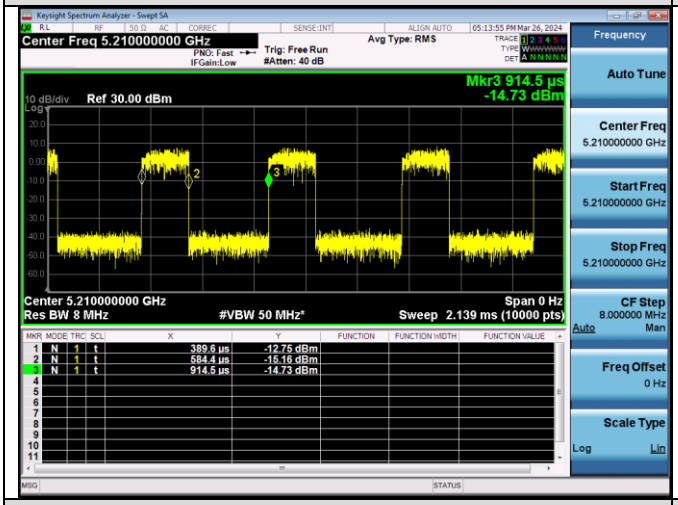
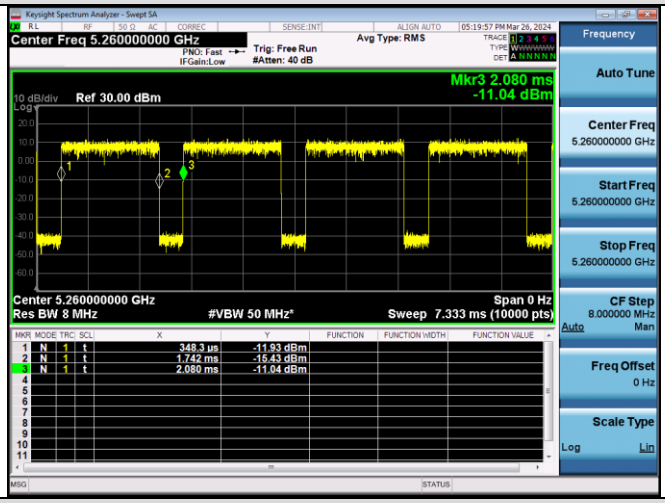
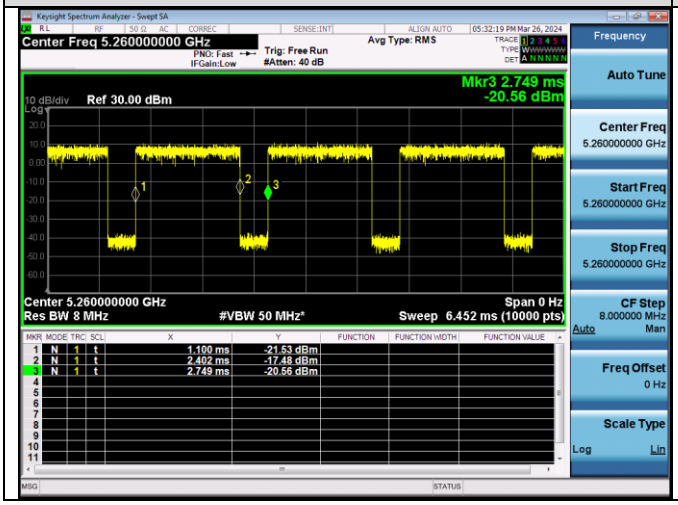
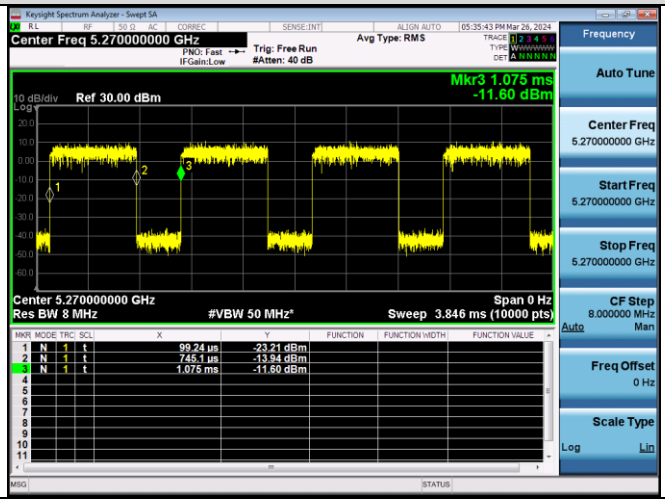
| Operating mode | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) | 1/ T Minimum VBW (kHz) | Average Factor (dB) |
|---|---|---|---|---|---|
| Band U-NII1:5150MHz-5250MHz-Chain A | | | | | |
| 802.11a | 6 | 80 | 0.97 | 0.72 | -1.94 |
| 802.11n_HT20 | MCS0 | 79 | 1.02 | 0.77 | -2.05 |
| 802.11n_HT40 | MCS0 | 66 | 1.80 | 1.55 | -3.61 |
| 802.11ac_VHT20 | MCS0 | 64 | 1.94 | 1.55 | -3.88 |
| 802.11ac_VHT40 | MCS0 | 50 | 3.01 | 2.83 | -6.02 |
| 802.11ac_VHT80 | MCS0 | 36 | 4.44 | 5.29 | -8.87 |
| 802.11ax_HE20 | MCS0 | 39 | 4.09 | 4.89 | -8.18 |
| 802.11ax_HE40 | MCS0 | 0.40 | 3.98 | 4.87 | -7.96 |
| 802.11ax_HE80 | MCS0 | 0.37 | 4.32 | 5.13 | -8.64 |
| Band U-NII 2A:5250MHz-5350MHz-Chain A | | | | | |
| 802.11a | 6 | 80 | 0.97 | 0.72 | -1.94 |
| 802.11n_HT20 | MCS0 | 79 | 1.02 | 0.77 | -2.05 |
| 802.11n_HT40 | MCS0 | 66 | 1.80 | 1.55 | -3.61 |
| 802.11ac_VHT20 | MCS0 | 66 | 1.80 | 1.47 | -3.61 |
| 802.11ac_VHT40 | MCS0 | 50 | 3.01 | 2.83 | -6.02 |
| 802.11ac_VHT80 | MCS0 | 36 | 4.44 | 5.29 | -8.87 |
| 802.11ax_HE20 | MCS0 | 40 | 3.98 | 4.89 | -7.96 |
| 802.11ax_HE40 | MCS0 | 40 | 3.98 | 4.87 | -7.96 |
| 802.11ax_HE80 | MCS0 | 35 | 4.56 | 5.13 | -9.12 |

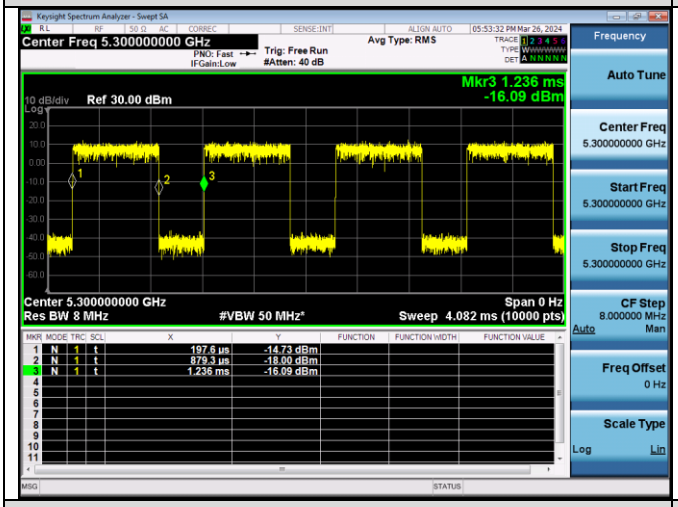
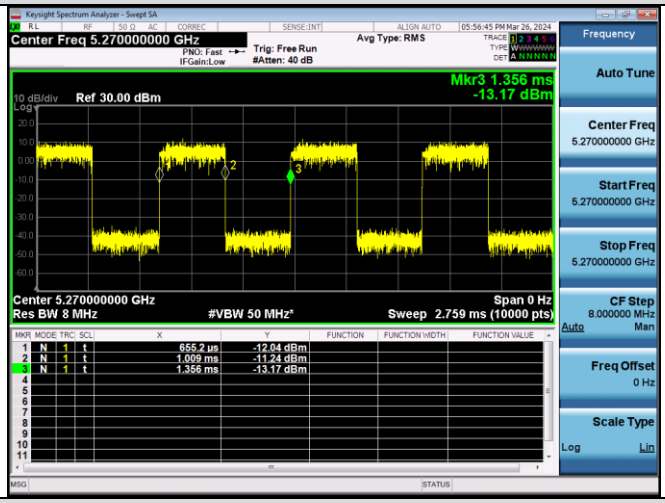
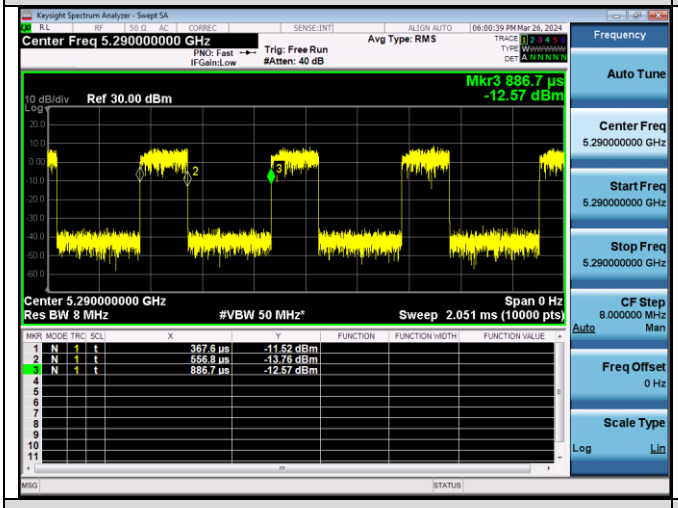
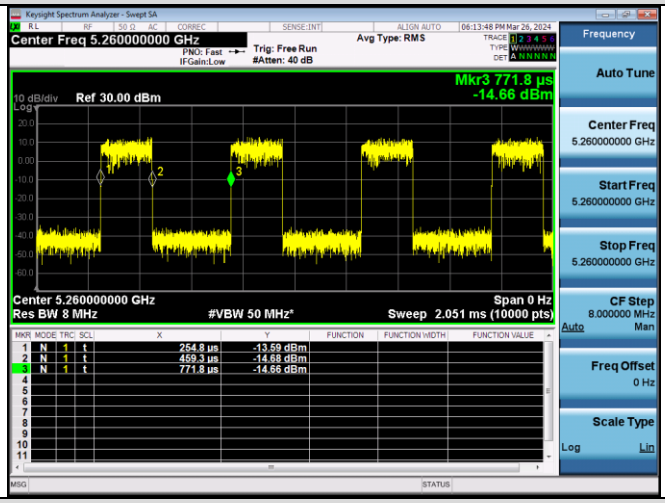
| Operating mode | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) | 1/ T Minimum VBW (kHz) | Average Factor (dB) |
|---|---|---|---|---|---|
| Band U-NII 2C:5470MHz-5725MHz-Chain A | | | | | |
| 802.11a | 6 | 50 | 0.97 | 0.72 | -1.94 |
| 802.11n_HT20 | MCS0 | 79 | 1.02 | 0.77 | -2.05 |
| 802.11n_HT40 | MCS0 | 66 | 1.80 | 1.55 | -3.61 |
| 802.11ac_VHT20 | MCS0 | 66 | 1.80 | 1.47 | -3.61 |
| 802.11ac_VHT40 | MCS0 | 50 | 3.01 | 2.83 | -6.02 |
| 802.11ac_VHT80 | MCS0 | 36 | 4.44 | 5.29 | -8.87 |
| 802.11ac_VHT160 | MCS0 | 26 | 5.85 | 8.54 | -11.70 |
| 802.11ax_HE20 | MCS0 | 61 | 2.15 | 1.79 | -4.29 |
| 802.11ax_HE40 | MCS0 | 40 | 3.98 | 4.88 | -7.96 |
| 802.11ax_HE80 | MCS0 | 36 | 4.44 | 5.13 | -8.87 |
| 802.11ax_HE160 | MCS0 | 28 | 5.53 | 7.32 | -11.06 |
| Band U-NII 3:5725MHz-5850MHz-Chain A | | | | | |
| 802.11a | 6 | 80 | 0.97 | 0.72 | -1.94 |
| 802.11n_HT20 | MCS0 | 79 | 1.02 | 0.77 | -2.05 |
| 802.11n_HT40 | MCS0 | 66 | 1.80 | 1.55 | -3.61 |
| 802.11ac_VHT20 | MCS0 | 66 | 1.80 | 1.47 | -3.61 |
| 802.11ac_VHT40 | MCS0 | 50 | 3.01 | 2.83 | -6.02 |
| 802.11ac_VHT80 | MCS0 | 36 | 4.44 | 5.29 | -8.87 |
| 802.11ax_HE20 | MCS0 | 61 | 2.15 | 1.79 | -4.29 |
| 802.11ax_HE40 | MCS0 | 40 | 3.98 | 4.87 | -7.96 |
| 802.11ax_HE80 | MCS0 | 35 | 4.56 | 5.13 | -9.12 |

| Operating mode | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) | 1/ T Minimum VBW (kHz) | Average Factor (dB) |
|---|---|---|---|---|---|
| Band U-NII1+2:5150MHz-5350MHz-Chain A | | | | | |
| 802.11ac_VHT160 | MCS0 | 26 | 5.85 | 8.54 | -11.70 |
| 802.11ax_HE160 | MCS0 | 28 | 5.53 | 7.33 | -11.06 |

The test plots Chain A as follows:

| Band U-NII1 IEEE 802.11a | Band U-NII1 IEEE 802.11n-HT20 |
|---|---|
|  |  |
| **Band U-NII1 IEEE 802.11n-HT40** | **Band U-NII1 IEEE 802.11ac-VHT20** |
|  |  |
| **Band U-NII1 IEEE 802.11ac-VHT40** | **Band U-NII1 IEEE 802.11ac-VHT80** |
|  |  |

| Band U-NII1 IEEE 802.11ax-HE20 | Band U-NII1 IEEE 802.11ax-HE40 |
|---|---|
|  |  |
| **Band U-NII1 IEEE 802.11ax-HE80** | **U-NII 2A IEEE 802.11a** |
|  |  |
| **U-NII 2A IEEE 802.11n-HT20** | **U-NII 2A EEE 802.11n-HT40** |
|  |  |

| U-NII 2A IEEE 802.11ac-VHT20 | U-NII 2A IEEE 802.11ac-VHT40 |
|---|---|
|  |  |
| **U-NII 2A IEEE 802.11ac-VHT80** | **U-NII 2A IEEE 802.11ax-HE20** |
|  |  |
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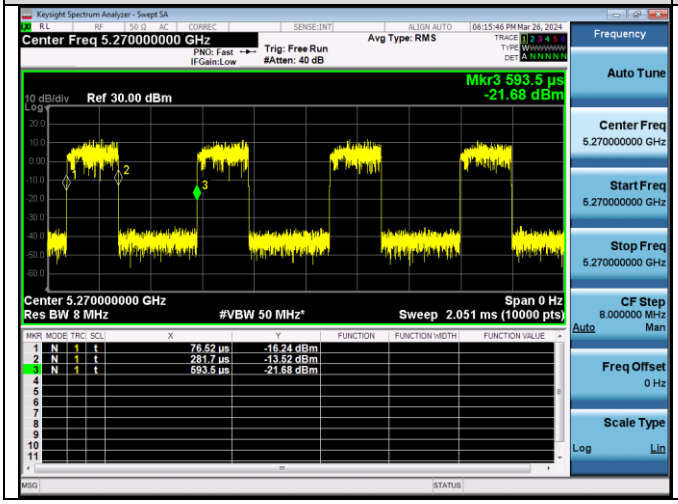
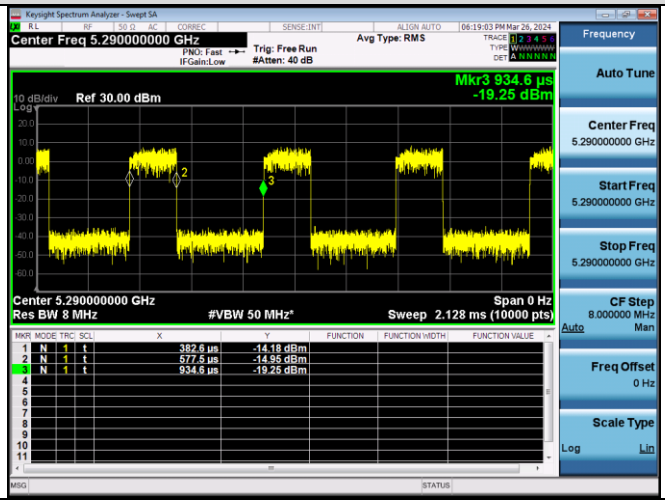
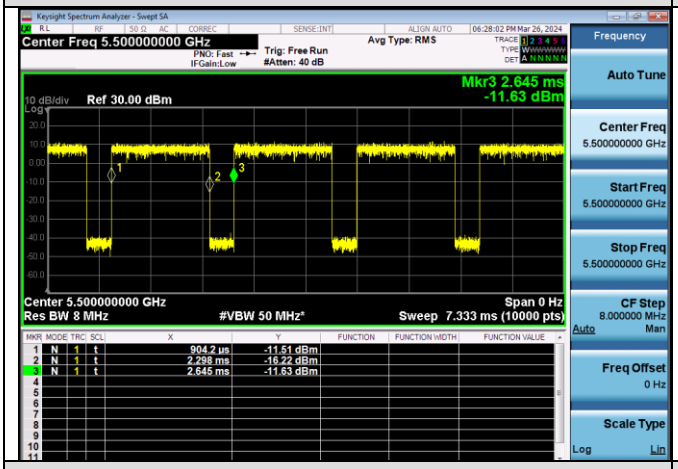
|  |  |

| U-NII 2C IEEE 802.11a | U-NII 2C IEEE 802.11n-HT20 |
|---|---|
|  |  |
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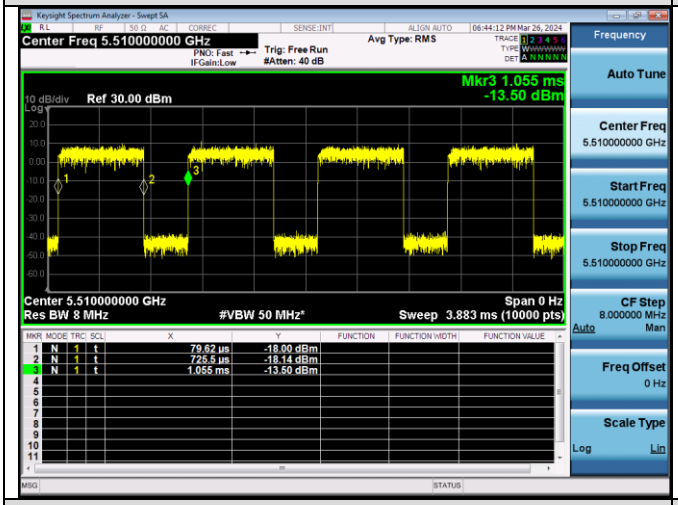
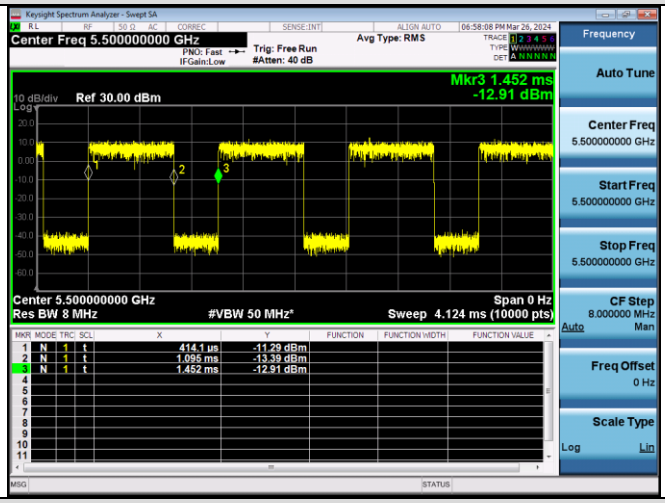
|  |  |
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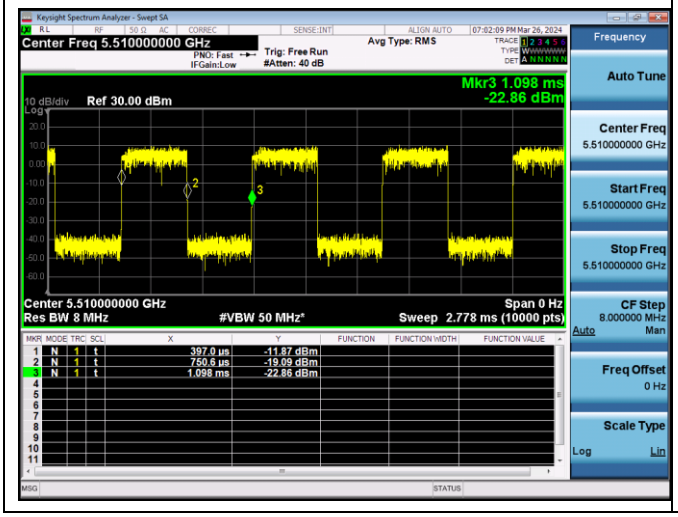
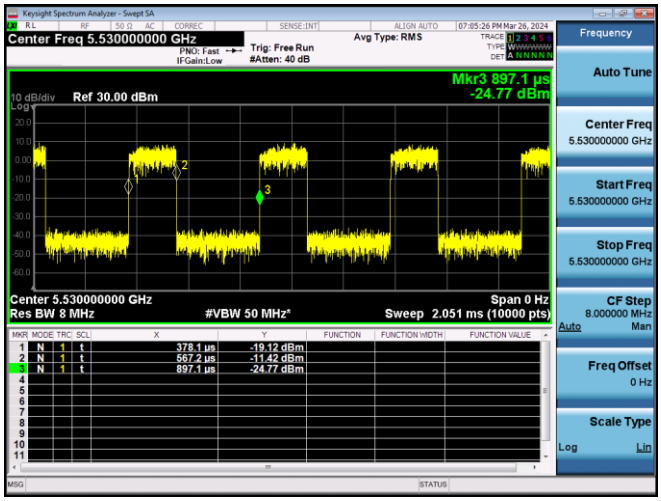
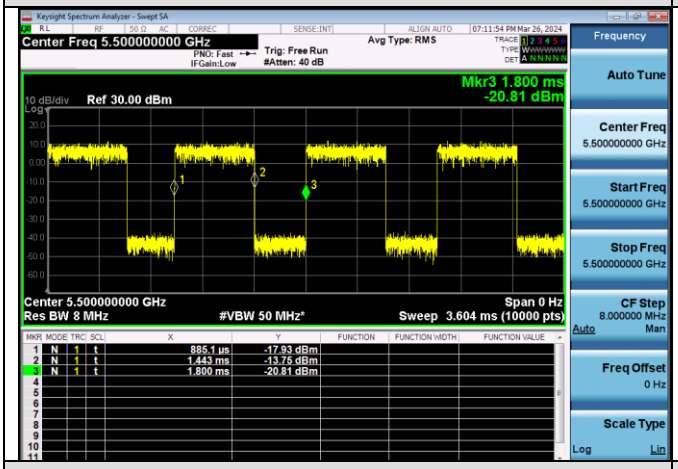
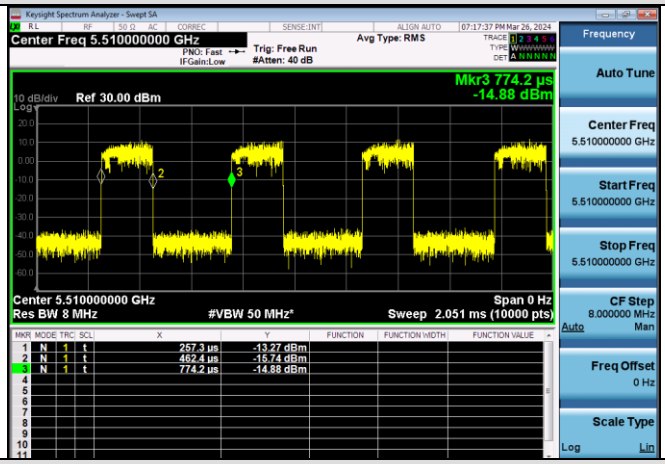
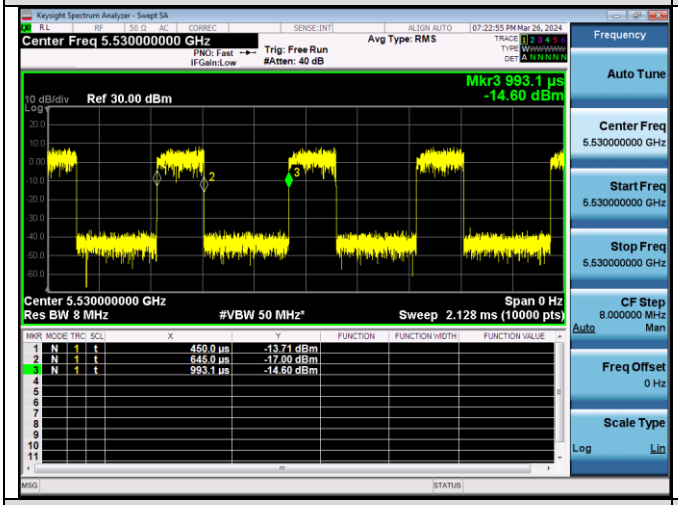
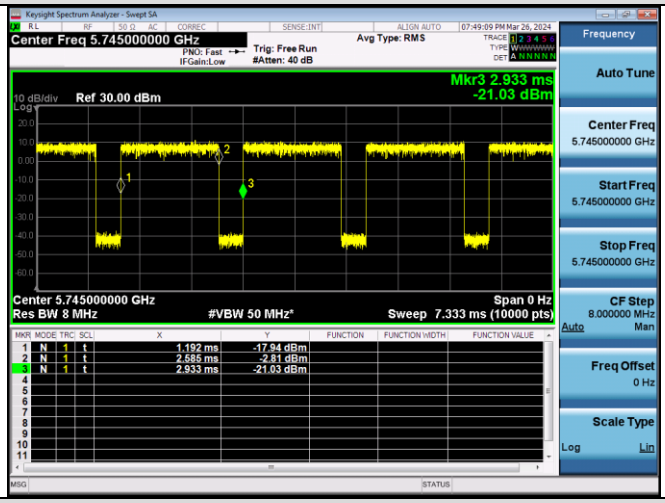
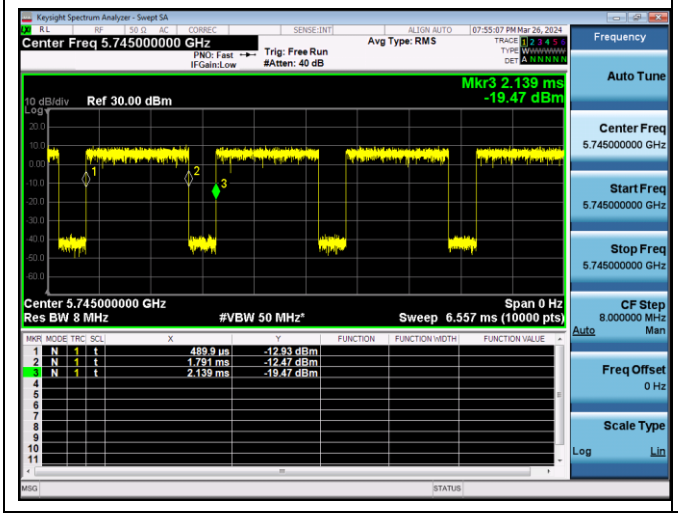
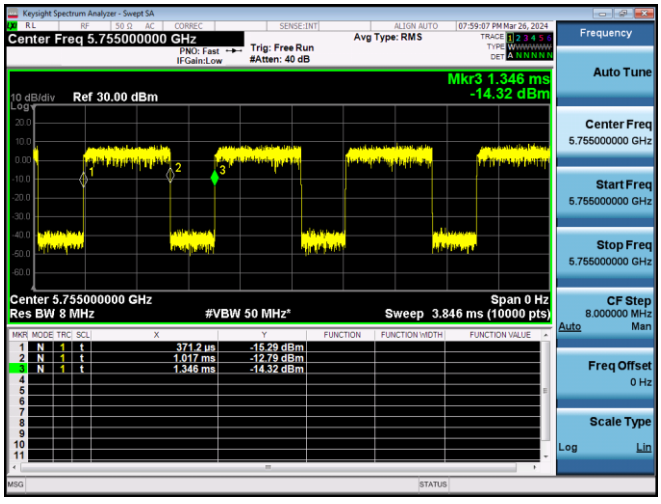
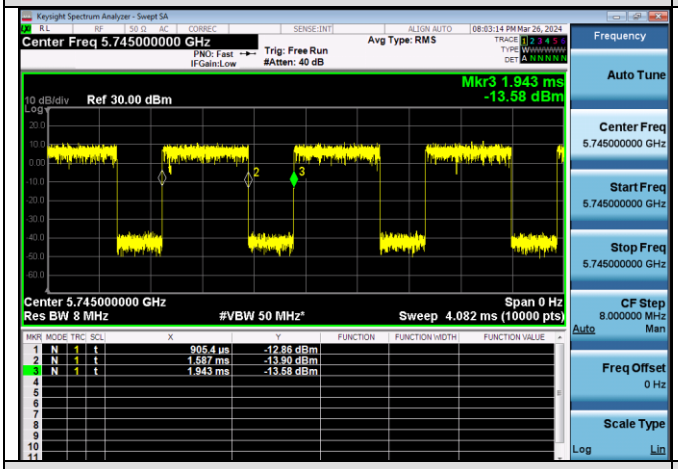
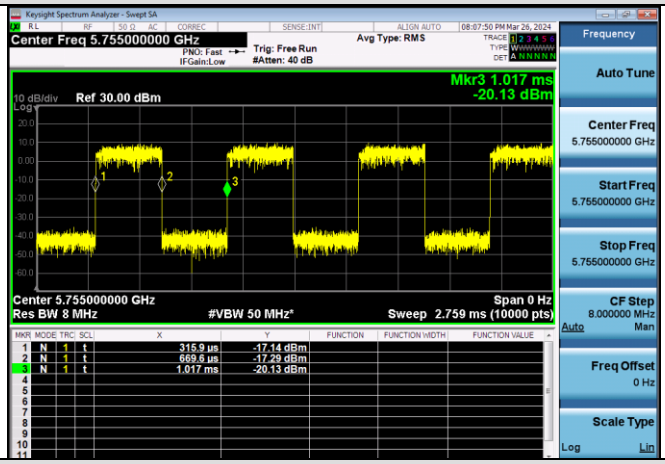
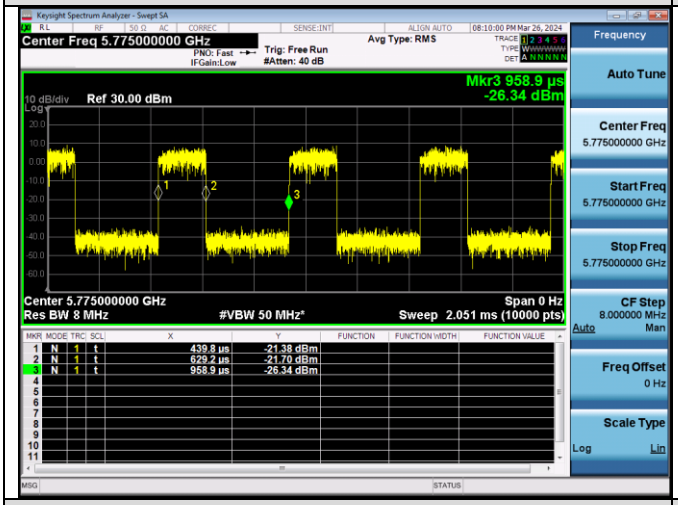
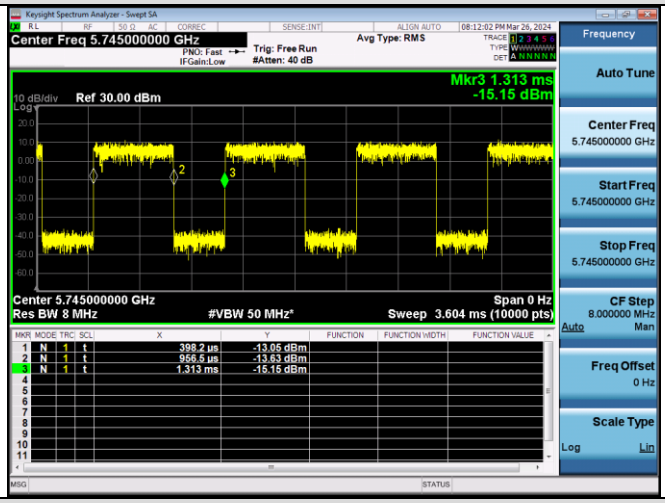
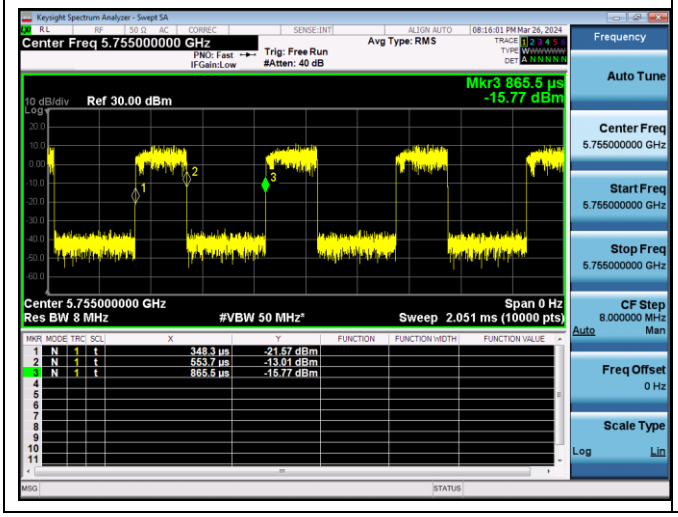
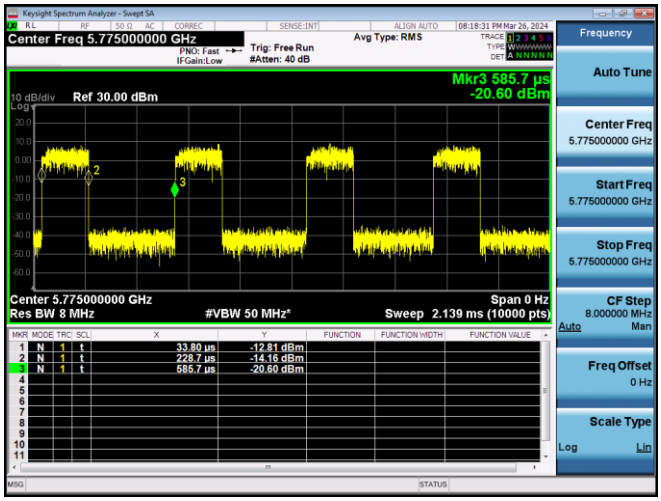
|  |  |

| U-NII 2C IEEE 802.11ax-HE20 | U-NII 2C IEEE 802.11ax-HE40 |
|---|---|
|  |  |
| **U-NII 2C IEEE 802.11ax-HE80** | **U-NII 3IEEE 802.11a** |
|  |  |
| **U-NII 3IEEE 802.11n-HT20** | **U-NII 3EEE 802.11n-VHT40** |
|  |  |

| U-NII 3IEEE 802.11ac-VHT20 | U-NII 3IEEE 802.11ac-VHT40 |
|---|---|
|  |  |
| **U-NII 3IEEE 802.11ac-VHT80** | **U-NII 3IEEE 802.11ax-HE20** |
|  |  |
| **U-NII 3IEEE 802.11ax-HE40** | **U-NII 3IEEE 802.11ax-HE80** |
|  |  |