

# FCC Test Report

Report No.: AGC12060251103FR04

**FCC ID** : 2BTLL-GNM01

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Laptop Computer

**BRAND NAME** : GEEKOM

**MODEL NAME** : NM16DA, NM16D7, NM16D\*\*\* (\*Representing numbers 0-9, letters A-Z, a-z, "-" or spaces)

**APPLICANT** : Shenzhen Geekom Electronic Technology Co., Ltd

**DATE OF ISSUE** : Mar. 26, 2026

**STANDARD(S)** : FCC Part 15 Subpart E §15.407

**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**Report Revise Record**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Mar. 26, 2026 | Valid         | Initial Release |

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## 1. General Information

|                              |                                                                                                                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                    | Shenzhen Geekom Electronic Technology Co., Ltd                                                                                                                                                                                                                 |
| Address                      | B705 No. 1044, Cha Guang Road, Shu Guang Community Xi Li Street, Nan Shan District, Shen Zhen, China                                                                                                                                                           |
| Manufacturer                 | Shenzhen Geekom Electronic Technology Co., Ltd                                                                                                                                                                                                                 |
| Address                      | B705 No. 1044, Cha Guang Road, Shu Guang Community Xi Li Street, Nan Shan District, Shen Zhen, China                                                                                                                                                           |
| Factory                      | N/A                                                                                                                                                                                                                                                            |
| Address                      | N/A                                                                                                                                                                                                                                                            |
| Product Designation          | Laptop Computer                                                                                                                                                                                                                                                |
| Brand Name                   | GEEKOM                                                                                                                                                                                                                                                         |
| Test Model                   | NM16DA                                                                                                                                                                                                                                                         |
| Series Model(s)              | NM16D7,NM16D*** (*Representing numbers 0-9, letters A-Z, a-z, "-" or spaces)                                                                                                                                                                                   |
| Difference Description       | (* represents numbers 0-9, letters A-Z, a-z, "-" or spaces, which are used to distinguish sales areas, different customer groups, and different market positioning, without affecting the safety and electromagnetic compatibility performance of the product) |
| Date of receipt of test item | Nov. 14, 2025                                                                                                                                                                                                                                                  |
| Date of Test                 | Nov. 14, 2025 to Mar. 26, 2026                                                                                                                                                                                                                                 |
| 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



Jack Gui  
(Project Engineer)

Mar. 26, 2026

Reviewed By



Bibo Zhang  
(Reviewer)

Mar. 26, 2026

Approved By



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Mar. 26, 2026

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## 2. Product Information

### 2.1 Product Technical Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                               |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Equipment Type        | <input type="checkbox"/> Outdoor access points<br><input type="checkbox"/> Fixed P2P access points                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> Indoor access points<br><input checked="" type="checkbox"/> Client devices                           |
| Operation Frequency   | <input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz<br><input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz<br><input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz |
| DFS Design Type       | <input type="checkbox"/> Master<br><input type="checkbox"/> Slave with radar detection                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Slave without radar detection                                                             |
| TPC Function          | <input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                               |
| Hardware Version      | NX16A_RL01_MB_V12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |
| Software Version      | Window 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |
| Test Frequency Range  | For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz/5745~5825MHz;<br>For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz/5755~5795MHz;<br>For 802.11ac-VHT80/ ax-HE80: 5210MHz/5775MHz                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |
| RF Output Power       | <b>Chain A:</b><br>802.11a:13.75dBm,802.11n(HT20):12.95dBm; 802.11n(HT40):12.74dBm;<br>802.11ac (VHT20):13.00dBm;802.11ac (VHT40):12.76dBm;<br>802.11ac (VHT80):12.71dBm;802.11ax (HE20):12.87dBm;<br>802.11ax (HE40):12.85dBm;802.11ax (HE80):12.85dBm<br><b>Chain B:</b><br>802.11a:13.35dBm,802.11n(HT20):12.41dBm; 802.11n(HT40):12.67dBm;<br>802.11ac (VHT20):12.43dBm;802.11ac (VHT40):12.65dBm;<br>802.11ac (VHT80):12.75dBm;802.11ax (HE20):12.42dBm;<br>802.11ax (HE40):12.70dBm;802.11ax (HE80):12.75dBm |                                                                                                                               |
| RF Output Power(MIMO) | 802.11n(HT20): 15.34dBm; 802.11n(HT40):15.66dBm;<br>802.11ac (VHT20):15.39 dBm;802.11ac (VHT40):15.70dBm;<br>802.11ac (VHT80):15.74dBm;802.11ax (HE20):15.38dBm;<br>802.11ax (HE40):15.70dBm;802.11ax (HE80):15.81dBm                                                                                                                                                                                                                                                                                              |                                                                                                                               |
| 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 866.7Mbps;<br>802.11ax: up to 1201Mbps                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                               |
| Number of channels    | 7 channels of U-NII-1 Band; 7 channels of U- NII-2A Band<br>18 channels of U-NII-2C Band; 8 channels of U- NII 3 Band                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                               |
| Antenna Designation   | PIFA Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                               |
| Antenna Gain          | Refer to Chapter 2.8 of the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |
| Power Supply          | DC 11.61V by battery or DC 20V, 5A by adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                               |

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## 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 (VHT80):

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

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

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**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  | --      | --        |

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### 2.3 IEEE 802.11n Modulation Scheme

| MCS Index | N <sub>ss</sub> | Modulation | R   | N <sub>BPSC</sub> | N <sub>CBPS</sub> |       | N <sub>DBPS</sub> |       | Data rate (Mbps) |       |
|-----------|-----------------|------------|-----|-------------------|-------------------|-------|-------------------|-------|------------------|-------|
|           |                 |            |     |                   | 20MHz             | 40MHz | 20MHz             | 40MHz | 800nsGI          |       |
| 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                          |

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

This submittal(s) (test report) is intended for **FCC ID: 2BTLL-GNM01** 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 C63.10-2020   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>15.203 requirement:</b><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.</p> |
| <p><b>EUT Antenna:</b><br/>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</p>                                                                                                                                                                                                                                                                                                           |

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## 2.9 Description of Available Antennas

| Antenna Type                              | Frequency Band (MHz) | TX Paths | Bandwidth (MHz) | Max Peak Gain (dBi) |         | Max Directional Gain (dBi) |
|-------------------------------------------|----------------------|----------|-----------------|---------------------|---------|----------------------------|
|                                           |                      |          |                 | Chain A             | Chain B |                            |
| 5G WIFI PIFA Antenna List (5GHz 2*2 MIMO) |                      |          |                 |                     |         |                            |
| PIFA Antenna                              | 5150 ~ 5250          | 2        | 20,40,80        | 2.90                | 2.49    | 5.91                       |
|                                           | 5250 ~ 5350          | 2        | 20,40,80        | 2.90                | 2.49    | 5.91                       |
|                                           | 5470 ~ 5725          | 2        | 20,40,80        | 2.90                | 2.49    | 5.91                       |
|                                           | 5725 ~ 5850          | 2        | 20,40,80        | 2.90                | 2.49    | 5.91                       |

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:

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

- For power measurements on IEEE 802.11 devices:

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

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

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

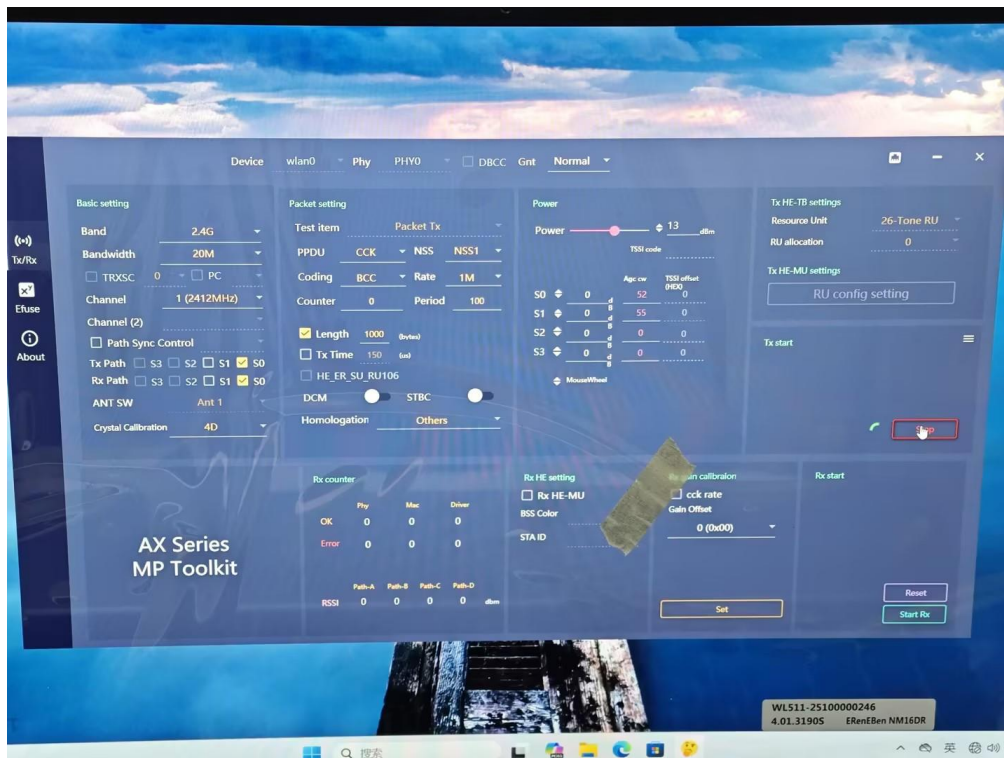
If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

## 2.10 Description of Test Software

### For IEEE 802.11 mode:

The test utility software used during testing was “REALTEK Mass Production Kit”, and the version was “mp\_v10.48”.

Software Setting Diagram



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| Test Mode<br>5150MHz~5250MHz | Channel | Power Index |         |
|------------------------------|---------|-------------|---------|
|                              |         | Chain A     | Chain B |
| 802.11a                      | L/M/H   | 18          | 18      |
| 802.11n(HT20)                | L/M/H   | 17          | 17      |
| 802.11n(HT40)                | L/M/H   | 17          | 17      |
| 802.11ac(VHT20)              | L/M/H   | 17          | 17      |
| 802.11ac(VHT40)              | L/M/H   | 17          | 17      |
| 802.11ac(VHT80)              | L/M/H   | 17          | 17      |
| 802.11ax(HE20)               | L/M/H   | 17          | 17      |
| 802.11ax(HE40)               | L/M/H   | 17          | 17      |
| 802.11ax(HE80)               | L/M/H   | 17          | 17      |
| Test Mode<br>5250MHz~5350MHz | Channel | Power Index |         |
|                              |         | Chain A     | Chain B |
| 802.11a                      | L/M/H   | 17          | 18      |
| 802.11n(HT20)                | L/M/H   | 16          | 17      |
| 802.11n(HT40)                | L/M/H   | 16          | 17      |
| 802.11ac(VHT20)              | L/M/H   | 16          | 17      |
| 802.11ac(VHT40)              | L/M/H   | 16          | 17      |
| 802.11ac(VHT80)              | L/M/H   | 16          | 17      |
| 802.11ax(HE20)               | L/M/H   | 16          | 17      |
| 802.11ax(HE40)               | L/M/H   | 16          | 17      |
| 802.11ax(HE80)               | L/M/H   | 16          | 17      |

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| Test Mode<br>5470MHz~5725MHz | Channel | Power Index |         |
|------------------------------|---------|-------------|---------|
|                              |         | Chain A     | Chain B |
| 802.11a                      | L/M/H   | 17          | 17      |
| 802.11n(HT20)                | L/M/H   | 16          | 16      |
| 802.11n(HT40)                | L/M/H   | 16          | 16      |
| 802.11ac(VHT20)              | L/M/H   | 16          | 16      |
| 802.11ac(VHT40)              | L/M/H   | 16          | 16      |
| 802.11ac(VHT80)              | L/M/H   | 16          | 16      |
| 802.11ax(HE20)               | L/M/H   | 16          | 16      |
| 802.11ax(HE40)               | L/M/H   | 16          | 16      |
| 802.11ax(HE80)               | L/M/H   | 16          | 16      |
| Test Mode<br>5725MHz~5850MHz | Channel | Power Index |         |
|                              |         | Chain A     | Chain B |
| 802.11a                      | L/M/H   | 16          | 19      |
| 802.11n(HT20)                | L/M/H   | 15          | 18      |
| 802.11n(HT40)                | L/M/H   | 15          | 18      |
| 802.11ac(VHT20)              | L/M/H   | 15          | 18      |
| 802.11ac(VHT40)              | L/M/H   | 15          | 18      |
| 802.11ac(VHT80)              | L/M/H   | 15          | 18      |
| 802.11ax(HE20)               | L/M/H   | 15          | 18      |
| 802.11ax(HE40)               | L/M/H   | 15          | 18      |
| 802.11ax(HE80)               | L/M/H   | 15          | 18      |

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### 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.

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### 3.3 Environmental Conditions

|                         | Normal Conditions |
|-------------------------|-------------------|
| Temperature range (°C)  | 15 - 35           |
| Relative humidity range | 20% - 75%         |
| Pressure range (kPa)    | 86 - 106          |

### 3.4 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded 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 | $U_c = \pm 2.9 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 3.9 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.9 \text{ dB}$ |
| Uncertainty of total RF power, conducted      | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF power density, conducted    | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of spurious emissions, conducted  | $U_c = \pm 2 \%$           |
| Uncertainty of Occupied Channel Bandwidth     | $U_c = \pm 2.7 \%$         |
| Uncertainty of Duty Cycle                     | $U_c = \pm 2 \%$           |

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### 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) |
| <input checked="" type="checkbox"/> | AGC-ER-E036   | Spectrum Analyzer    | Agilent       | N9020A      | MY49100060         | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-ER-E062   | Power Sensor         | Agilent       | U2021XA     | MY54110007         | 2025-01-14                | 2026-01-13                |
| <input checked="" type="checkbox"/> | AGC-ER-E062   | Power Sensor         | Agilent       | U2021XA     | MY54110007         | 2026-01-13                | 2027-01-12                |
| <input checked="" type="checkbox"/> | AGC-ER-E063   | Power Sensor         | Agilent       | U2021XA     | MY54110009         | 2025-01-14                | 2026-01-13                |
| <input checked="" type="checkbox"/> | AGC-ER-E063   | Power Sensor         | Agilent       | U2021XA     | MY54110009         | 2026-01-13                | 2027-01-12                |
| <input checked="" type="checkbox"/> | AGC-ER-A008   | 6dB Fixed Attenuator | Mini circuits | BW-K6-2W44+ | N/A                | 2025-01-30                | 2026-01-29                |
| <input checked="" type="checkbox"/> | AGC-ER-A008   | 6dB Fixed Attenuator | Mini circuits | BW-K6-2W44+ | N/A                | 2026-01-31                | 2028-01-30                |
| <input type="checkbox"/>            | AGC-ER-E083   | Signal Generator     | Agilent       | E4421B      | US39340815         | 2025-05-21                | 2026-05-20                |
| <input checked="" type="checkbox"/> | N/A           | RF Connection Cable  | N/A           | 1#          | N/A                | Each time                 | N/A                       |
| <input checked="" type="checkbox"/> | N/A           | RF Connection Cable  | N/A           | 2#          | N/A                | Each time                 | N/A                       |
| <input type="checkbox"/>            | AGC-ER-E091   | DC Power Supply      | AIDEKESI      | IT6720      | 800103030787810080 | 2024-03-28                | 2026-03-27                |

| ● 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) |
| <input checked="" type="checkbox"/> | AGC-EM-E046   | EMI Test Receiver             | R&S                 | ESCI        | 100096     | 2025-01-14                | 2026-01-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E046   | EMI Test Receiver             | R&S                 | ESCI        | 100096     | 2026-01-13                | 2027-01-12                |
| <input type="checkbox"/>            | AGC-EM-E116   | EMI Test Receiver             | R&S                 | ESCI        | 100034     | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E061   | Spectrum Analyzer             | Agilent             | N9010A      | MY53470504 | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-E086   | Loop Antenna                  | ZHINAN              | ZN30900C    | 18051      | 2024-03-05                | 2026-03-04                |
| <input checked="" type="checkbox"/> | AGC-EM-E086   | Loop Antenna                  | ZHINAN              | ZN30900C    | 18051      | 2026-01-14                | 2028-01-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E001   | Wideband Antenna              | SCHWARZBECK         | VULB9168    | D69250     | 2025-03-14                | 2027-03-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E029   | Broadband Ridged Horn Antenna | ETS                 | 3117        | 00034609   | 2025-03-27                | 2026-03-26                |
| <input checked="" type="checkbox"/> | AGC-EM-E029   | Broadband Ridged Horn Antenna | ETS                 | 3117        | 00034609   | 2026-03-14                | 2027-03-13                |
| <input checked="" type="checkbox"/> | AGC-EM-E082   | Horn Antenna                  | SCHWARZBECK         | BBHA 9170   | #768       | 2025-09-10                | 2027-09-09                |
| <input checked="" type="checkbox"/> | AGC-EM-E146   | Pre-amplifier                 | ETS                 | 3117-PA     | 00246148   | 2024-07-24                | 2026-07-23                |
| <input checked="" type="checkbox"/> | AGC-EM-E083   | Pre-amplifier                 | Chengyi Electronics | EMC184045SE | 980508     | 2025-09-05                | 2027-09-04                |
| <input checked="" type="checkbox"/> | AGC-EM-A118   | 5G Filter                     | SongYi              | BRM50716    | N/A        | 2025-05-16                | 2026-05-15                |
| <input checked="" type="checkbox"/> | AGC-EM-A138   | 6dB Attenuator                | Eeatsheep           | LM-XX-6-5W  | N/A        | 2025-05-16                | 2027-05-15                |
| <input type="checkbox"/>            | AGC-EM-A139   | 6dB Attenuator                | Eeatsheep           | LM-XX-6-5W  | N/A        | 2025-05-16                | 2027-05-15                |

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| ● 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) |
| <input checked="" type="checkbox"/> | AGC-EM-E116   | EMI Test Receiver | R&S           | ESCI      | 100034     | 2025-05-08                | 2026-05-07                |
| <input checked="" type="checkbox"/> | AGC-EM-A171   | Attenuator        | Mini-Circuits | UNAT-10A+ | DC-6GZ     | 2024-02-01                | 2026-01-31                |
| <input checked="" type="checkbox"/> | AGC-EM-A171   | Attenuator        | Mini-Circuits | UNAT-10A+ | DC-6GZ     | 2026-01-13                | 2028-01-12                |
| <input checked="" type="checkbox"/> | AGC-EM-E023   | AMN               | R&S           | ESH2-Z5   | 100086     | 2025-05-08                | 2026-05-07                |

| ● Test Software                     |               |                     |              |                                 |                     |
|-------------------------------------|---------------|---------------------|--------------|---------------------------------|---------------------|
| Used                                | Equipment No. | Test Equipment      | Manufacturer | Model No.                       | Version Information |
| <input checked="" type="checkbox"/> | AGC-EM-S001   | CE Test System      | R&S          | ES-K1                           | V1.71               |
| <input checked="" type="checkbox"/> | AGC-EM-S003   | RE Test System      | FARA         | EZ-EMC                          | VRA-03A             |
| <input type="checkbox"/>            | AGC-EM-S004   | RE Test System      | Tonscend     | TS <sup>+</sup> Ver2.1(JS32-RE) | 4.0.0.0             |
| <input checked="" type="checkbox"/> | AGC-ER-S012   | BT/WIFI Test System | Tonscend     | JS1120-2                        | 2.6                 |
| <input checked="" type="checkbox"/> | AGC-EM-S011   | RSE Test System     | Tonscend     | TS+-Ver2.1(JS36-RSE)            | 4.0.0.0             |

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## 4. System Test Configuration

### 4.1 EUT Configuration

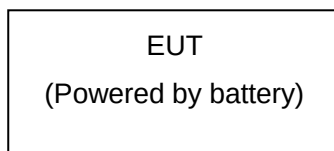
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 4.2 EUT Exercise

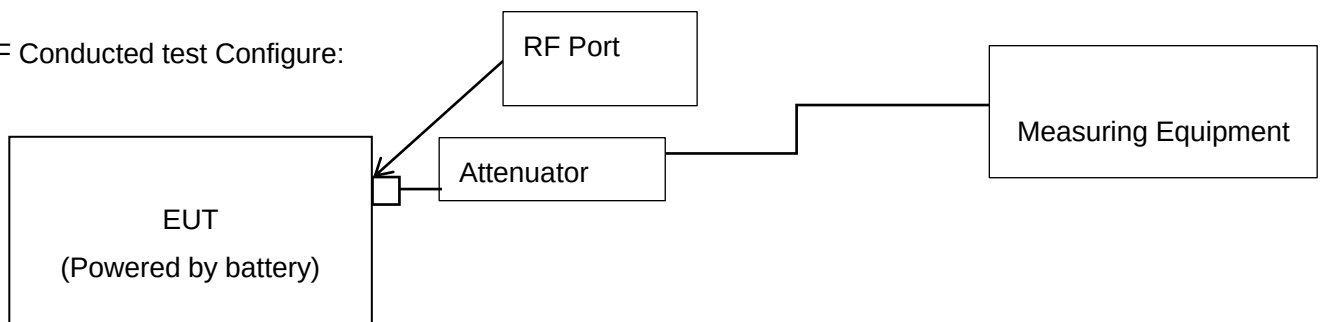
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

### 4.3 Configuration of Tested System

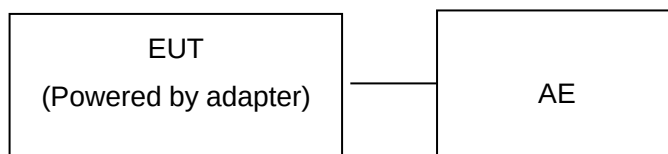
Radiated Emission Configure:



RF Conducted test Configure:



Conducted Emission Configure:



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#### 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. | Serial No. | Specification Information | Cable |
|-----|-----------|--------------|-----------|------------|---------------------------|-------|
| 1   | N/A       | N/A          | N/A       | N/A        | N/A                       | N/A   |

☒ Test Accessories Come From The Manufacturer

| No. | Equipment | Manufacturer                                | Model No.       | Serial No. | Specification Information                             | Cable              |
|-----|-----------|---------------------------------------------|-----------------|------------|-------------------------------------------------------|--------------------|
| 1   | Adapter   | SHENZHEN<br>HUNTKEY<br>ELECTRIC<br>CO., LTD | HKC10020050-0K3 | N/A        | Input:AC100-240v<br>50/60Hz 2.5A<br>Output: DC 20V/5A | 1.8m<br>unshielded |

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#### 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    | §2.1049                         | 26dB bandwidth Measurement                    | Pass                 |
| 5    | §15.407(g)                      | Frequency Stability                           | Pass<br>(See Note 1) |
| 6    | §15.407(C)                      | Transmission Discontinuation Requirement      | Pass<br>(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. Refer to the manufacturer's declaration in the user manual.
2. The device operates without the transmission of information.

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## 5. Description of Test Modes

| EUT Configure Mode | Applicable To                       |                                     |                                     |                                     | Description                           |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
|                    | RE > 1G                             | RE < 1G                             | PLC                                 | APCM                                |                                       |
| A                  | --                                  | --                                  | <input checked="" type="checkbox"/> | --                                  | Powered by Adapter with WIFI(5G) Link |
| B                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | --                                  | <input checked="" type="checkbox"/> | 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.

### ● 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).
- ☒ Support 802.11ax, device debugging is tested in Full RU state
- ☒ 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) |
|--------------------|------------------|------------------|-------------------|----------------|------------|------------------|
| B                  | 802.11ax (80MHz) | 5180-5240        | 42                | 42             | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz) | 5260-5320        | 58                | 58             | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz) | 5500-5700        | 106 to 122        | 122            | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz) | 5745~5825        | 155               | 155            | OFDMA      | MCS0             |

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● **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) |
|--------------------|------------------|------------------|-------------------|----------------|------------|------------------|
| B                  | 802.11ax (80MHz) | 5180-5240        | 42                | 42             | OFDMA      | 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.
- ☒ 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                  | 802.11ax (80MHz) | 5500-5700        | 106 to 122        | 106            | OFDM       | MCS0             |

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● **Radiated 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).
- ☒ Support 802.11ax, device debugging is tested in Full RU state
- ☒ 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 Chain A 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) |
|--------------------|------------------|------------------|-------------------|----------------|------------|------------------|
| B                  | 802.11a          | 5180-5240        | 36 to 48          | 36             | OFDM       | 6.0              |
| B                  | 802.11n (40MHz)  |                  | 38 to 46          | 38             | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz) |                  | 42                | 42             | OFDM       | MCS0             |
| B                  | 802.11ax (80MHz) |                  | 42                | 42             | OFDMA      | MCS0             |
| B                  | 802.11a          | 5260-5320        | 52 to 64          | 52             | OFDM       | 6.0              |
| B                  | 802.11n (40MHz)  |                  | 54 to 62          | 62             | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz) |                  | 58                | 58             | OFDM       | MCS0             |
| B                  | 802.11ax (80MHz) |                  | 58                | 58             | OFDMA      | MCS0             |
| B                  | 802.11a          | 5500-5700        | 100 to 140        | 100            | OFDM       | 6.0              |
| B                  | 802.11n (40MHz)  |                  | 102 to 134        | 102            | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz) |                  | 106               | 106            | OFDM       | MCS0             |
| B                  | 802.11ax (80MHz) |                  | 106               | 106            | OFDMA      | MCS0             |
| B                  | 802.11a          | 5745~5825        | 149 to 165        | 149,165        | OFDM       | 6.0              |
| B                  | 802.11n (40MHz)  |                  | 151 to 159        | 159            | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz) |                  | 155               | 155            | OFDM       | MCS0             |
| B                  | 802.11ax (80MHz) |                  | 155               | 155            | OFDMA      | MCS0             |

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● **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).
- ☒ Support 802.11ax, device debugging is tested in Full RU state
- ☒ 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) |
|--------------------|-------------------|------------------|-------------------|----------------|------------|------------------|
| B                  | 802.11a           | 5180-5240        | 36 to 48          | 36, 40, 48     | OFDM       | 6.0              |
| B                  | 802.11n (20MHz)   |                  | 36 to 48          | 36, 40, 48     | OFDM       | MCS0             |
| B                  | 802.11n (40MHz)   |                  | 38 to 46          | 38, 46         | OFDM       | MCS0             |
| B                  | 802.11ac (20MHz)  |                  | 36 to 48          | 36, 40, 48     | OFDM       | MCS0             |
| B                  | 802.11ac (40MHz)  |                  | 38 to 46          | 38, 46         | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz)  |                  | 42                | 42             | OFDM       | MCS0             |
| B                  | 802.11ax (20MHz)  |                  | 36 to 48          | 36, 40, 48     | OFDMA      | MCS0             |
| B                  | 802.11ax (40MHz)  |                  | 38 to 46          | 38, 46         | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz)  |                  | 42                | 42             | OFDMA      | MCS0             |
| B                  | 802.11a           | 5260-5320        | 52 to 64          | 52, 60, 64     | OFDM       | 6.0              |
| B                  | 802.11n (20MHz)   |                  | 52 to 64          | 52, 60, 64     | OFDM       | MCS0             |
| B                  | 802.11n (40MHz)   |                  | 54 to 62          | 54, 62         | OFDM       | MCS0             |
| B                  | 802.11ac (20MHz)  |                  | 52 to 64          | 52, 60, 64     | OFDM       | MCS0             |
| B                  | 802.11ac (40MHz)  |                  | 54 to 62          | 54, 62         | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz)  |                  | 58                | 58             | OFDM       | MCS0             |
| B                  | 802.11ax (20MHz)  |                  | 52 to 64          | 52, 60, 64     | OFDMA      | MCS0             |
| B                  | 802.11ax (40MHz)  |                  | 54 to 62          | 54, 62         | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz)  |                  | 58                | 58             | OFDMA      | MCS0             |
| B                  | 802.11a           | 5500-5700        | 100 to 140        | 100, 120, 140  | OFDM       | 6.0              |
| B                  | 802.11n (20MHz)   |                  | 100 to 140        | 100, 120, 140  | OFDM       | MCS0             |
| B                  | 802.11n (40MHz)   |                  | 102 to 134        | 102, 110, 134  | OFDM       | MCS0             |
| B                  | 802.11ac (20MHz)  |                  | 100 to 140        | 100, 120, 140  | OFDM       | MCS0             |
| B                  | 802.11ac (40MHz)  |                  | 102 to 134        | 102, 110, 134  | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz)  |                  | 106,122           | 106, 122       | OFDM       | MCS0             |
| B                  | 802.11ac (160MHz) |                  | 114               | 114            | OFDM       | MCS0             |
| B                  | 802.11ax (20MHz)  |                  | 100 to 140        | 100, 120, 140  | OFDMA      | MCS0             |
| B                  | 802.11ax (40MHz)  |                  | 102 to 134        | 102, 110, 134  | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz)  |                  | 106,122           | 106, 122       | OFDMA      | MCS0             |
| B                  | 802.11a           | 5745-5825        | 149 to 165        | 149, 157, 165  | OFDM       | 6.0              |
| B                  | 802.11n (20MHz)   |                  | 149 to 165        | 149, 157, 165  | OFDM       | MCS0             |
| B                  | 802.11n (40MHz)   |                  | 151 to 159        | 151, 159       | OFDM       | MCS0             |
| B                  | 802.11ac (20MHz)  |                  | 149 to 165        | 149, 157, 165  | OFDM       | MCS0             |
| B                  | 802.11ac (40MHz)  |                  | 151 to 159        | 151, 159       | OFDM       | MCS0             |
| B                  | 802.11ac (80MHz)  |                  | 155               | 155            | OFDM       | MCS0             |
| B                  | 802.11ax (20MHz)  |                  | 149 to 165        | 149, 157, 165  | OFDMA      | MCS0             |
| B                  | 802.11ax (40MHz)  |                  | 151 to 159        | 151, 159       | OFDMA      | MCS0             |
| B                  | 802.11ax (80MHz)  |                  | 155               | 155            | OFDMA      | MCS0             |

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## 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 = Average. 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:

### Chain A:

| Operating mode                | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) |
|-------------------------------|-------------------|----------------|------------------------|
| Band U-NII1:5150MHz-5250MHz   |                   |                |                        |
| 802.11a                       | 6                 | 100            | --                     |
| 802.11n_HT20                  | MCS0              | 100            | --                     |
| 802.11n_HT40                  | MCS0              | 100            | --                     |
| 802.11ac_VHT20                | MCS0              | 100            | --                     |
| 802.11ac_VHT40                | MCS0              | 100            | --                     |
| 802.11ac_VHT80                | MCS0              | 100            | --                     |
| 802.11ax_HE20                 | MCS0              | 100            | --                     |
| 802.11ax_HE40                 | MCS0              | 100            | --                     |
| 802.11ax_HE80                 | MCS0              | 100            | --                     |
| Band U-NII 2A:5250MHz-5350MHz |                   |                |                        |
| 802.11a                       | 6                 | 100            | --                     |
| 802.11n_HT20                  | MCS0              | 100            | --                     |
| 802.11n_HT40                  | MCS0              | 100            | --                     |
| 802.11ac_VHT20                | MCS0              | 100            | --                     |
| 802.11ac_VHT40                | MCS0              | 100            | --                     |
| 802.11ac_VHT80                | MCS0              | 100            | --                     |
| 802.11ax_HE20                 | MCS0              | 100            | --                     |
| 802.11ax_HE40                 | MCS0              | 100            | --                     |
| 802.11ax_HE80                 | MCS0              | 100            | --                     |

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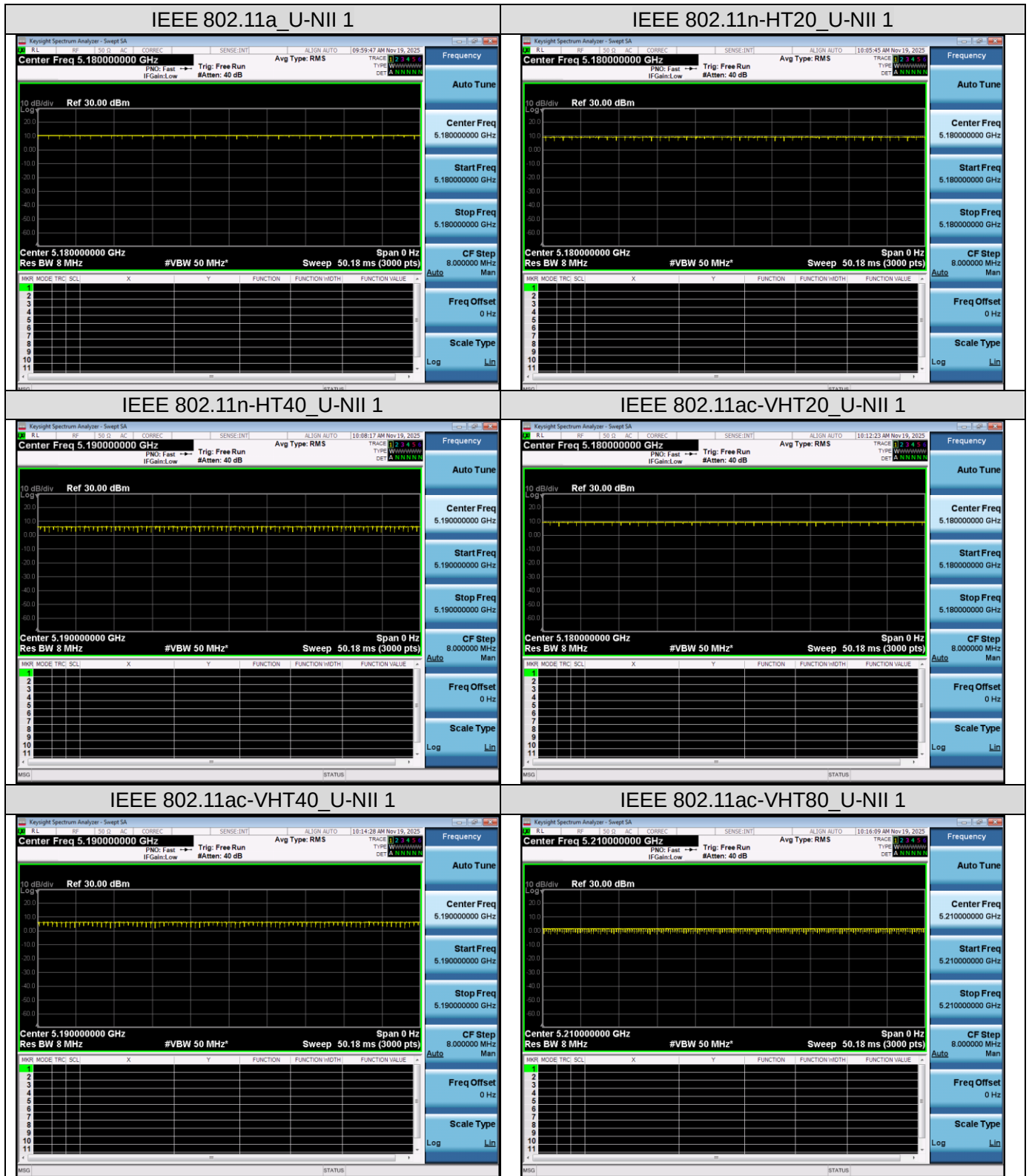
| Operating mode                 | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) |
|--------------------------------|-------------------|----------------|------------------------|
| Band U-NII 2C: 5470MHz~5725MHz |                   |                |                        |
| 802.11a                        | 6                 | 100            | --                     |
| 802.11n_HT20                   | MCS0              | 100            | --                     |
| 802.11n_HT40                   | MCS0              | 100            | --                     |
| 802.11ac_VHT20                 | MCS0              | 100            | --                     |
| 802.11ac_VHT40                 | MCS0              | 100            | --                     |
| 802.11ac_VHT80                 | MCS0              | 100            | --                     |
| 802.11ax_HE20                  | MCS0              | 100            | --                     |
| 802.11ax_HE40                  | MCS0              | 100            | --                     |
| 802.11ax_HE80                  | MCS0              | 100            | --                     |
| Band U-NII 3: 5725MHz~5850MHz  |                   |                |                        |
| 802.11a                        | 6                 | 100            | --                     |
| 802.11n_HT20                   | MCS0              | 100            | --                     |
| 802.11n_HT40                   | MCS0              | 100            | --                     |
| 802.11ac_VHT20                 | MCS0              | 100            | --                     |
| 802.11ac_VHT40                 | MCS0              | 100            | --                     |
| 802.11ac_VHT80                 | MCS0              | 100            | --                     |
| 802.11ax_HE20                  | MCS0              | 100            | --                     |
| 802.11ax_HE40                  | MCS0              | 100            | --                     |
| 802.11ax_HE80                  | MCS0              | 100            | --                     |

;Remark:

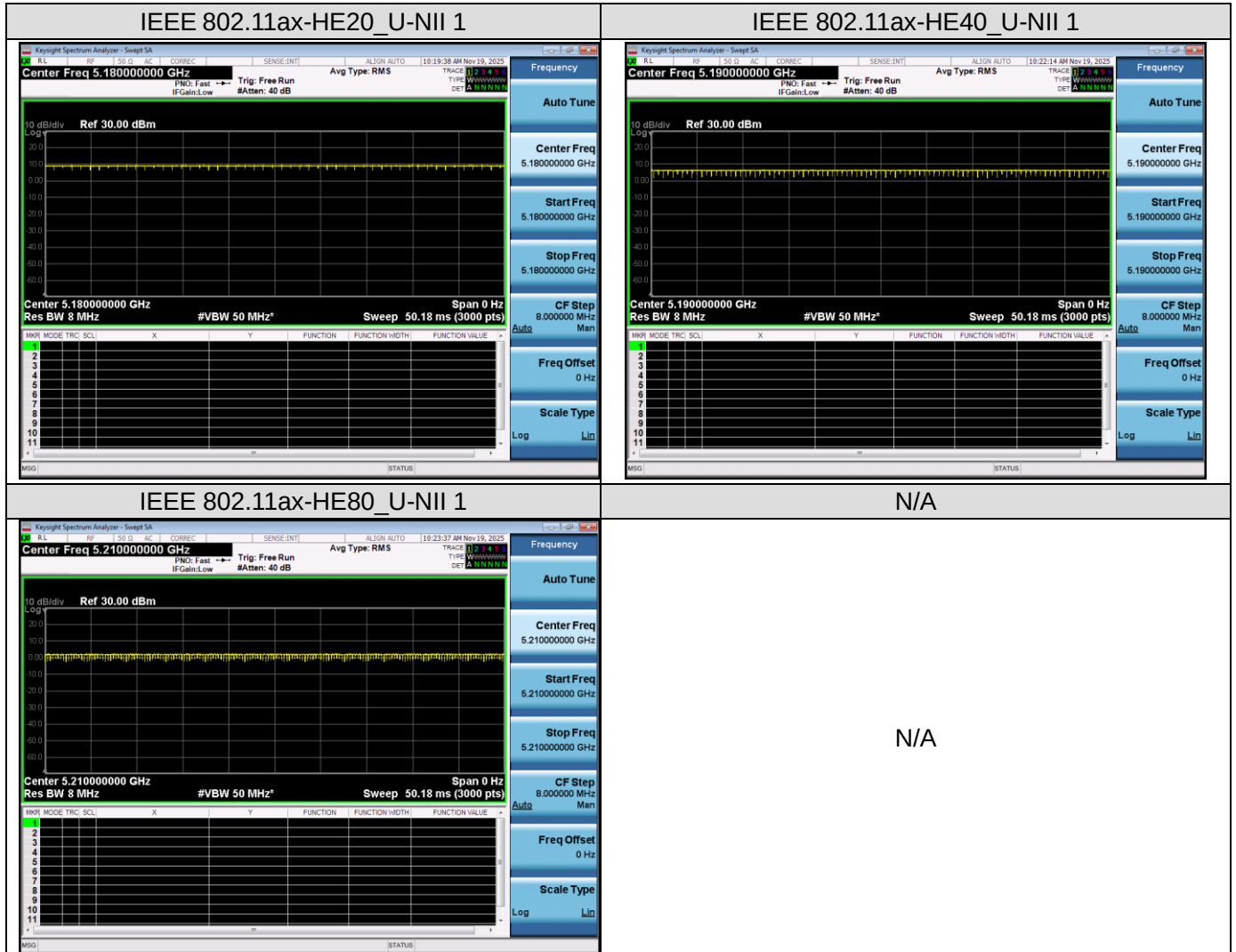
1. Duty Cycle factor =  $10 * \log (1/ \text{Duty cycle})$
2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.
3. Involving the test items of duty cycle compensation coefficient, the final results have been added and calculated by the software and presented.
4. Three antennas cannot work simultaneously, please refer to the operation description for specific principles.

The test plots as follows:

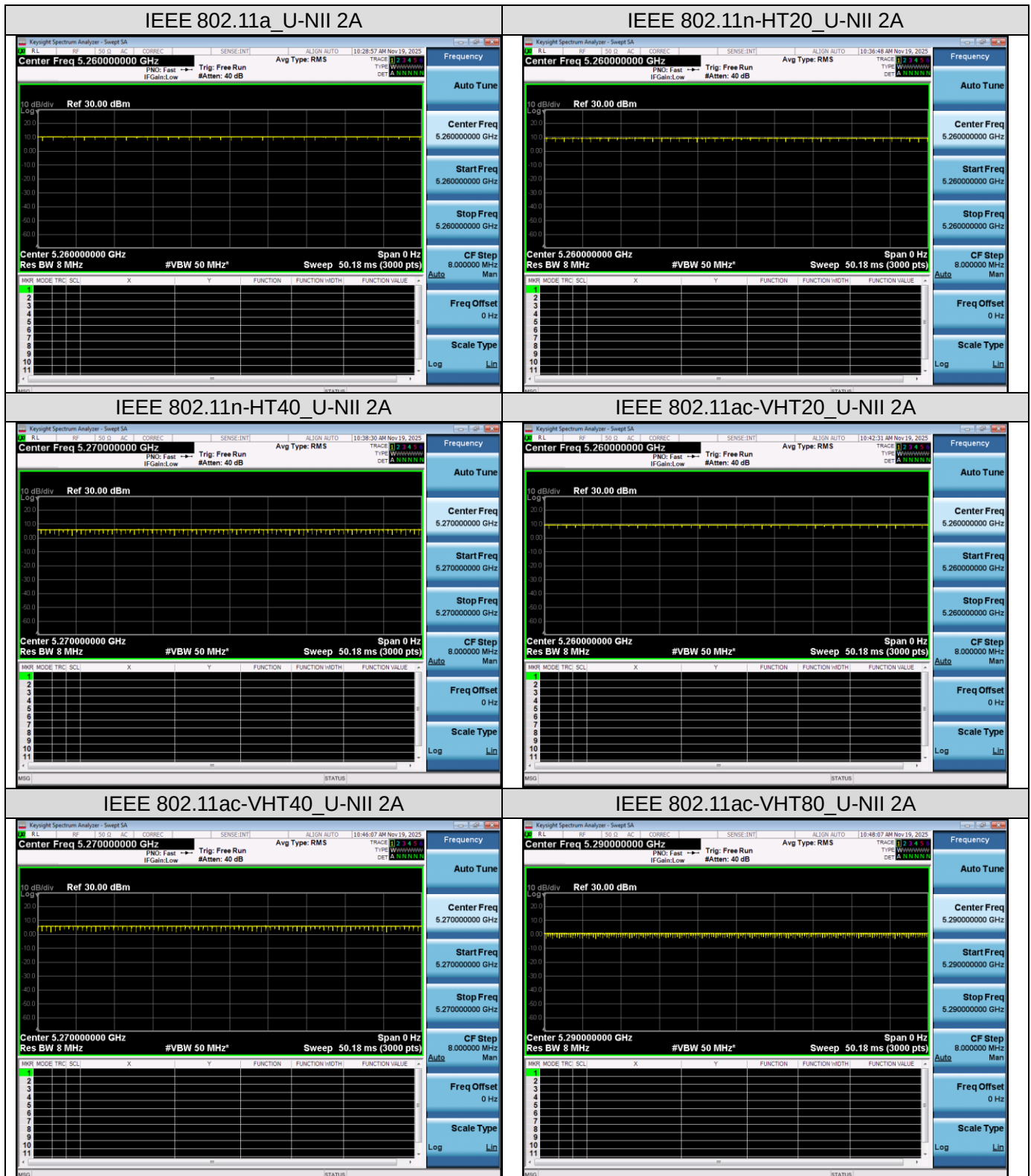
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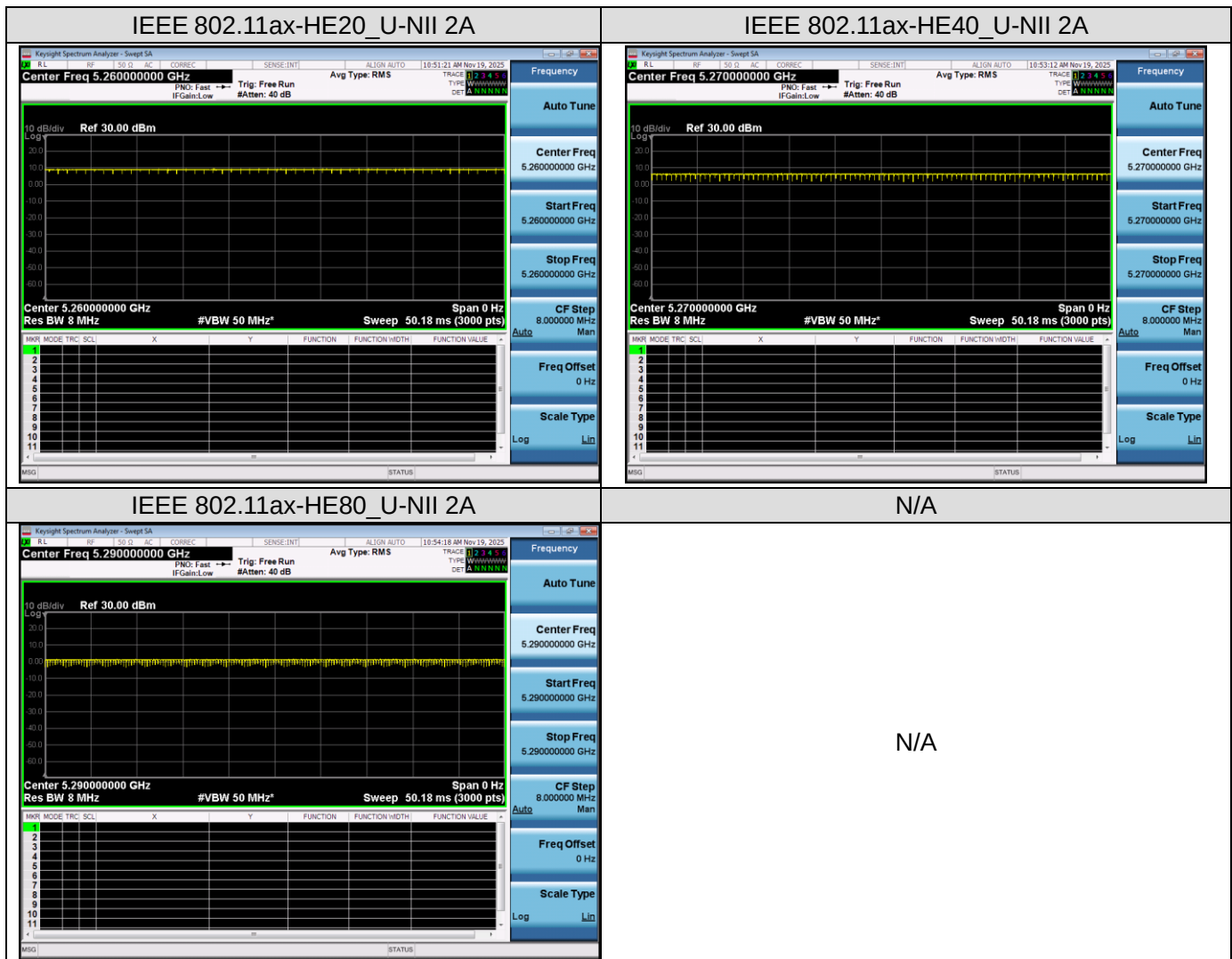
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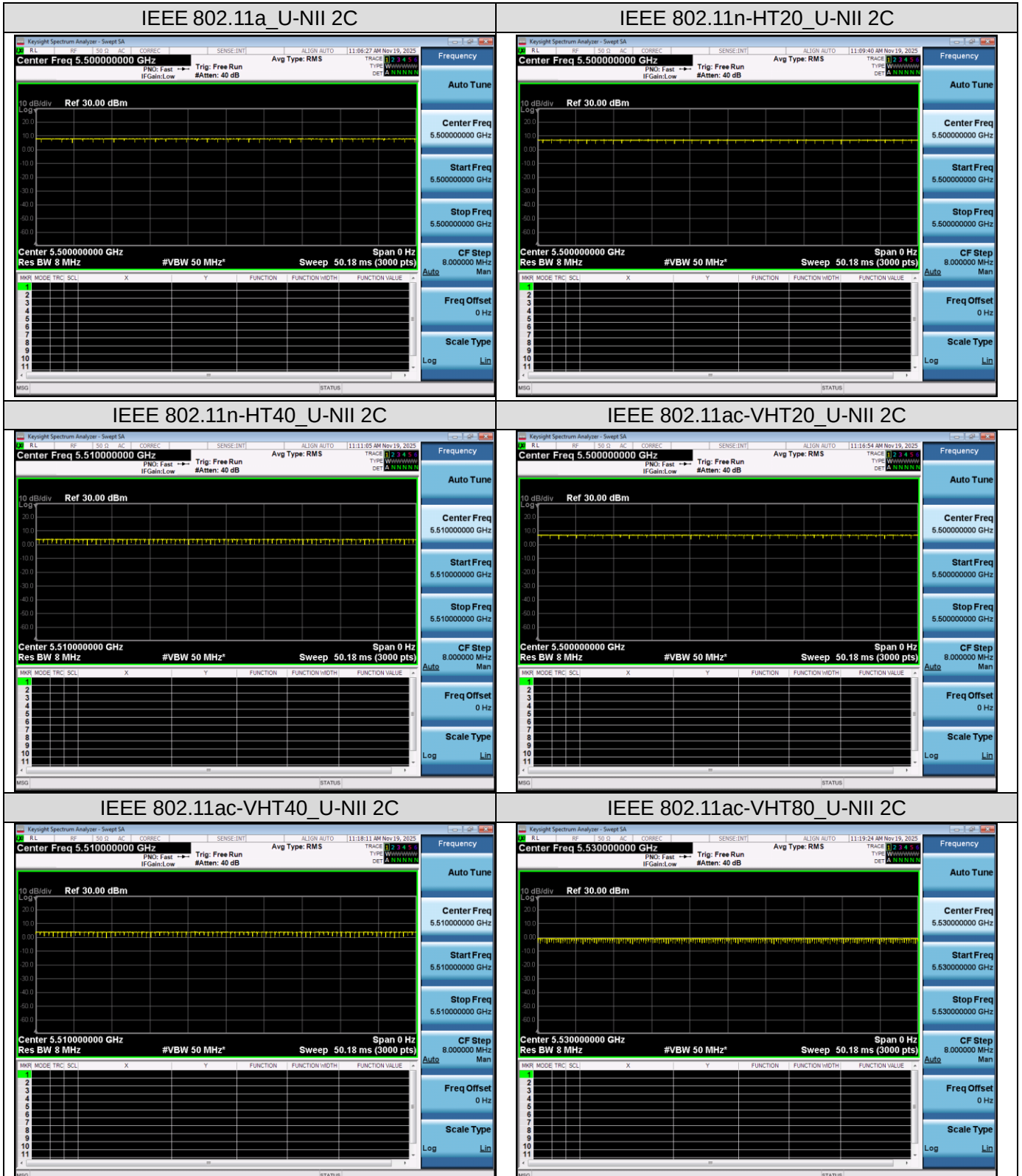
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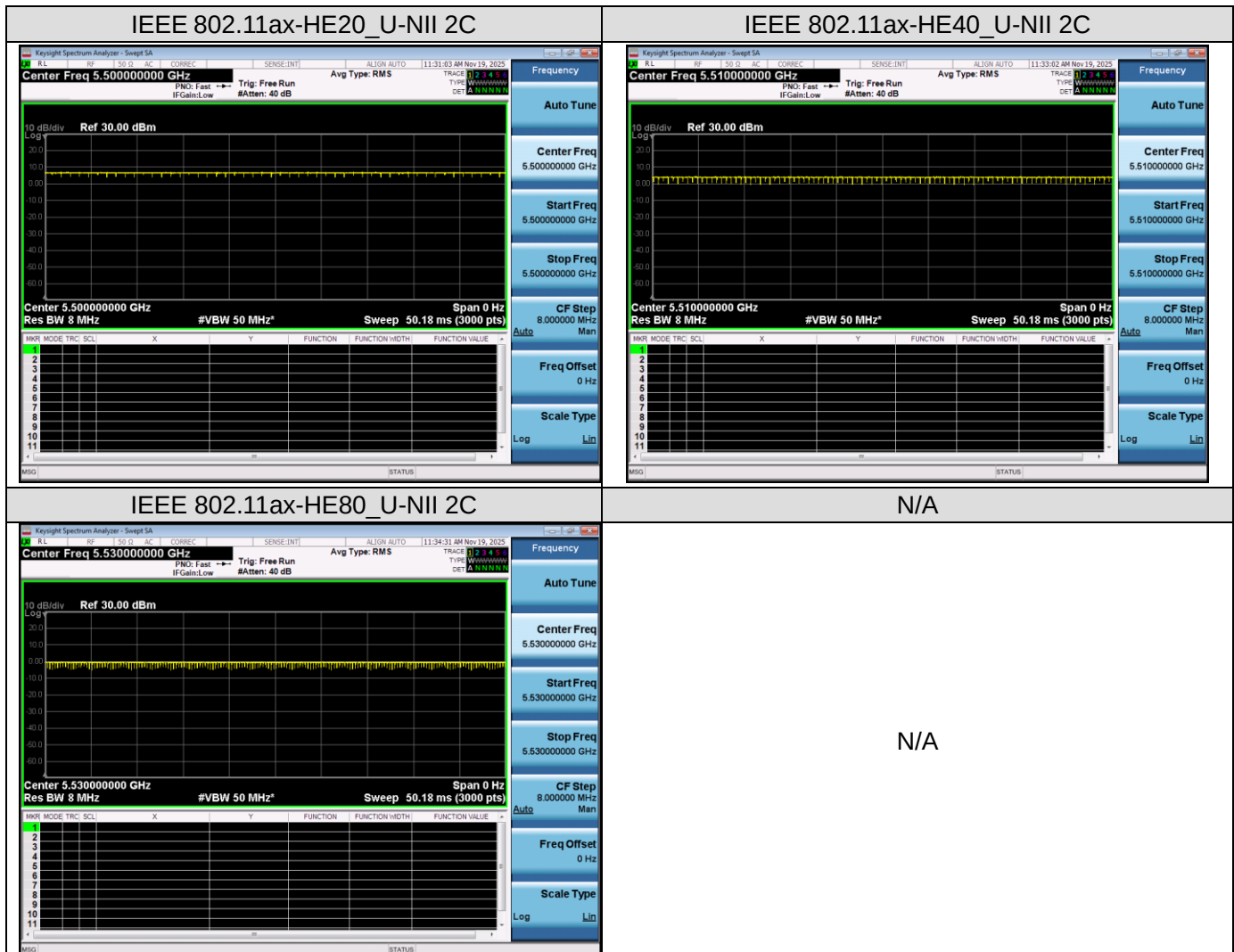
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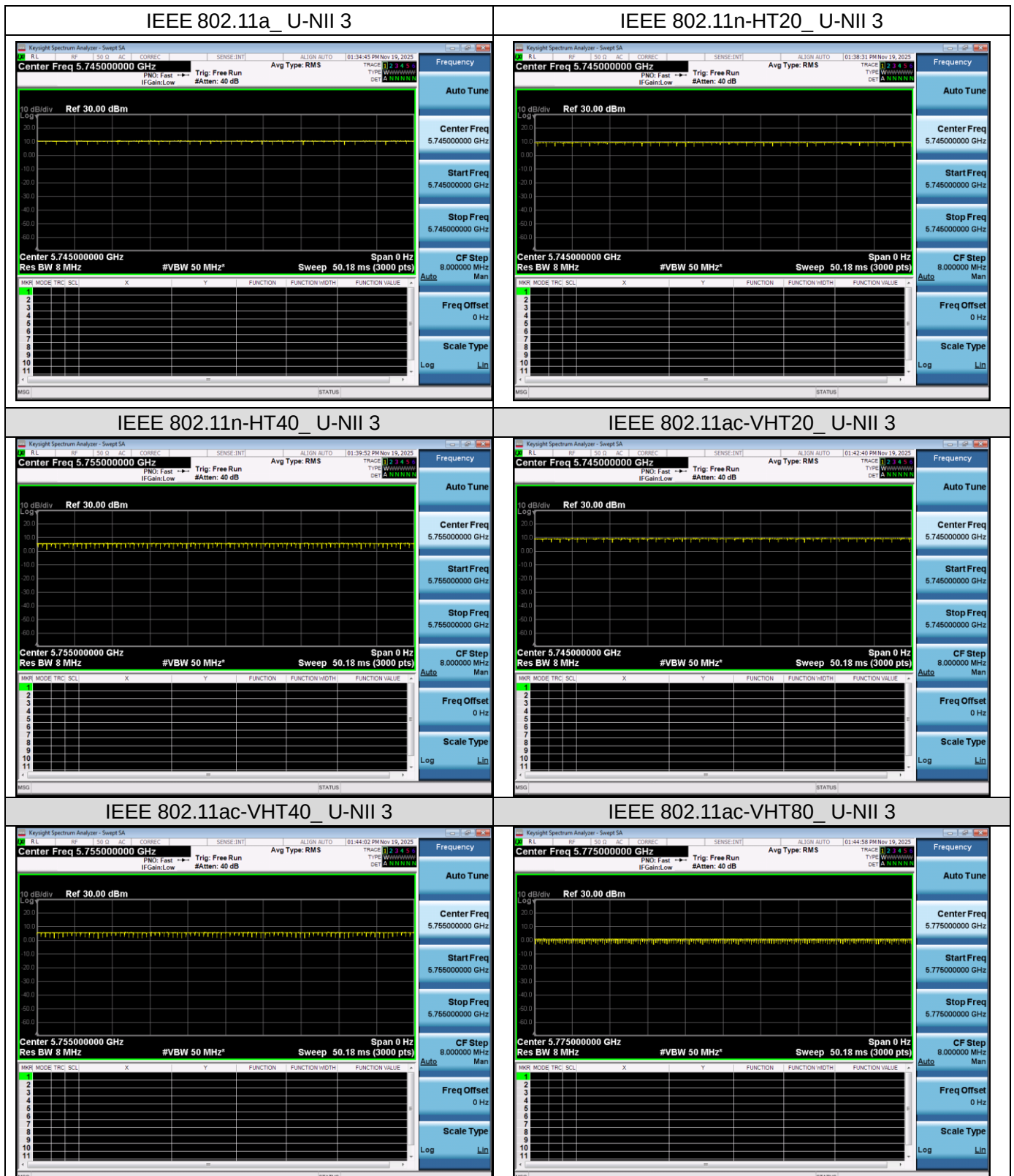
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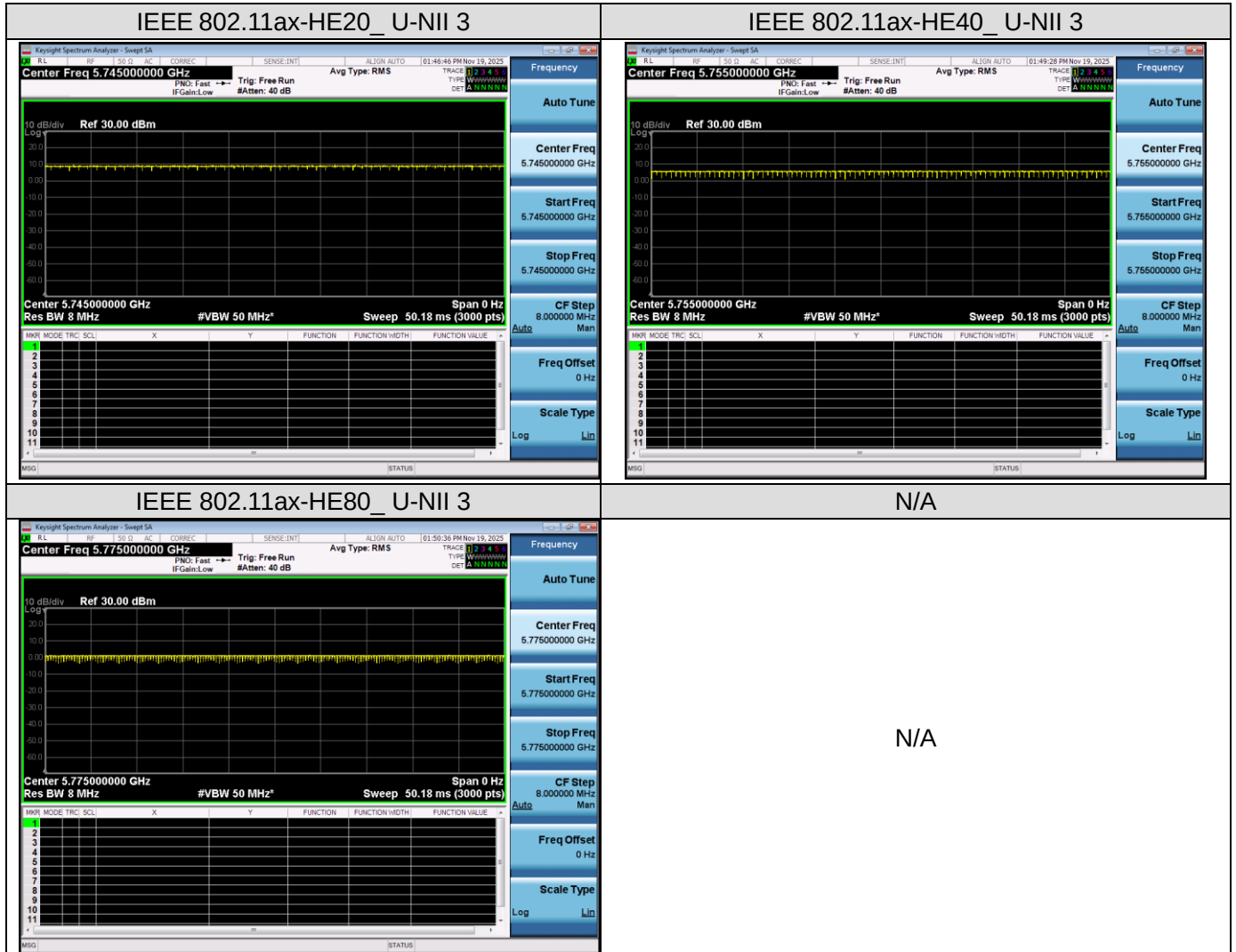


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**Chain B:**

| Operating mode                | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) |
|-------------------------------|-------------------|----------------|------------------------|
| Band U-NII1:5150MHz-5250MHz   |                   |                |                        |
| 802.11a                       | 6                 | 100            | --                     |
| 802.11n_HT20                  | MCS0              | 100            | --                     |
| 802.11n_HT40                  | MCS0              | 100            | --                     |
| 802.11ac_VHT20                | MCS0              | 100            | --                     |
| 802.11ac_VHT40                | MCS0              | 100            | --                     |
| 802.11ac_VHT80                | MCS0              | 100            | --                     |
| 802.11ax_HE20                 | MCS0              | 100            | --                     |
| 802.11ax_HE40                 | MCS0              | 100            | --                     |
| 802.11ax_HE80                 | MCS0              | 100            | --                     |
| Band U-NII 2A:5250MHz-5350MHz |                   |                |                        |
| 802.11a                       | 6                 | 100            | --                     |
| 802.11n_HT20                  | MCS0              | 100            | --                     |
| 802.11n_HT40                  | MCS0              | 100            | --                     |
| 802.11ac_VHT20                | MCS0              | 100            | --                     |
| 802.11ac_VHT40                | MCS0              | 100            | --                     |
| 802.11ac_VHT80                | MCS0              | 100            | --                     |
| 802.11ax_HE20                 | MCS0              | 100            | --                     |
| 802.11ax_HE40                 | MCS0              | 100            | --                     |
| 802.11ax_HE80                 | MCS0              | 100            | --                     |

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| Operating mode                 | Data rates (Mbps) | Duty Cycle (%) | Duty Cycle Factor (dB) |
|--------------------------------|-------------------|----------------|------------------------|
| Band U-NII 2C: 5470MHz~5725MHz |                   |                |                        |
| 802.11a                        | 6                 | 100            | --                     |
| 802.11n_HT20                   | MCS0              | 100            | --                     |
| 802.11n_HT40                   | MCS0              | 100            | --                     |
| 802.11ac_VHT20                 | MCS0              | 100            | --                     |
| 802.11ac_VHT40                 | MCS0              | 100            | --                     |
| 802.11ac_VHT80                 | MCS0              | 100            | --                     |
| 802.11ax_HE20                  | MCS0              | 100            | --                     |
| 802.11ax_HE40                  | MCS0              | 100            | --                     |
| 802.11ax_HE80                  | MCS0              | 100            | --                     |
| Band U-NII 3: 5725MHz~5850MHz  |                   |                |                        |
| 802.11a                        | 6                 | 100            | --                     |
| 802.11n_HT20                   | MCS0              | 100            | --                     |
| 802.11n_HT40                   | MCS0              | 100            | --                     |
| 802.11ac_VHT20                 | MCS0              | 100            | --                     |
| 802.11ac_VHT40                 | MCS0              | 100            | --                     |
| 802.11ac_VHT80                 | MCS0              | 100            | --                     |
| 802.11ax_HE20                  | MCS0              | 100            | --                     |
| 802.11ax_HE40                  | MCS0              | 100            | --                     |
| 802.11ax_HE80                  | MCS0              | 100            | --                     |

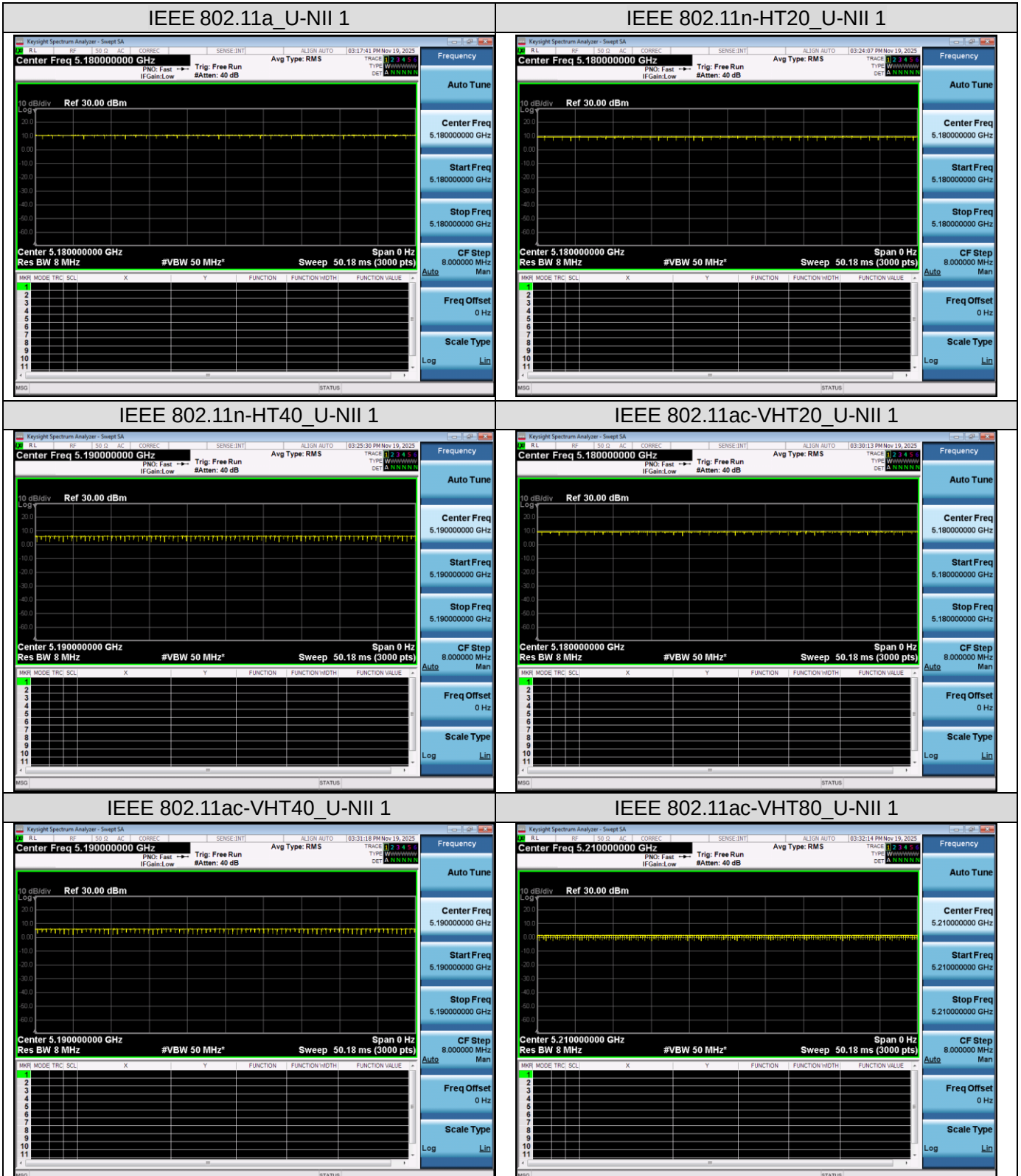
Remark:

- Duty Cycle factor =  $10 * \log (1/ \text{Duty cycle})$
- The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.
- Involving the test items of duty cycle compensation coefficient, the final results have been added and calculated by the software and presented.

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The test plots as follows:



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