

# FCC Test Report

**Test Report  
On Behalf of  
Guangdong Hengqin Xingtong Technology Co.,Ltd.  
For  
PawPal  
Model No.: Z100**

**FCC ID: 2BLKH-Z100**

**Prepared For:** Guangdong Hengqin Xingtong Technology Co.,Ltd.  
Room 1306, No. 8 Yanghuan Road, Hengqin New District Zhuhai City, ZhuHai,  
519031, China

**Prepared By:** Shenzhen HUAKE Testing Technology Co., Ltd.  
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Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**Date of Test:** Apr. 14, 2025 ~ Aug. 05, 2025

**Date of Report:** Aug. 05, 2025

**Report Number:** HK2507163881-E

## Test Result Certification

**Applicant's Name**.....: Guangdong Hengqin Xingtong Technology Co.,Ltd.  
**Address** .....: Room 1306, No. 8 Yanghuan Road, Hengqin New District Zhuhai City, ZhuHai, 519031, China  
**Manufacturer's Name** .....: Guangdong Hengqin Xingtong Technology Co.,Ltd.  
**Address** .....: Room 1306, No. 8 Yanghuan Road, Hengqin New District Zhuhai City, ZhuHai, 519031, China  
**Factory**.....: Guangdong Taide Zhilian Technology Co., LTD  
**Address** .....: Tai De Science and Technology Park - No. 388, Bihu Avenue, Fenggang Town, Dongguan City, Guangdong Province, China

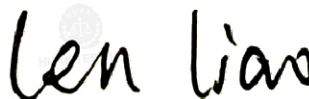
### Product Description

**Trade Mark** .....: Think Academy  
**Product Name**.....: PawPal  
**Model and/or Type Reference** : Z100  
**Standards** .....: FCC Rules and Regulations Part 15 Subpart C Section 15.247  
ANSI C63.10: 2013

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**Date of Test**.....:  
**Date (s) of Performance of Tests** .....: **Apr. 14, 2025 ~ Aug. 05, 2025**  
**Date of Issue**.....: **Aug. 05, 2025**  
**Test Result**.....: **Pass**

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou

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**\*\* Modified History \*\***

| Revision     | Description                                                                                                                                                                                                                                                                                                                 | Issued Data   | Remark     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release                                                                                                                                                                                                                                                                                                 | May 07, 2025  | Jason Zhou |
| Revision 2.0 | The changes to the circuit mainboard are as follows: 1. The ADC circuit components were not actually used; they were left as reserved blank patches; 2. Add a 103 filter capacitor position to the charging USB5V input line, and the layout update of the charging port small board. The original report is HK2504141853-E | Aug. 05, 2025 | Jason Zhou |
|              |                                                                                                                                                                                                                                                                                                                             |               |            |

# 1. Test Result Summary

## 1.1 Test Procedures and Results

| Requirement                      | CFR 47 Section        | Result |
|----------------------------------|-----------------------|--------|
| Antenna Requirement              | §15.203/§15.247(b)(4) | PASS   |
| AC Power Line Conducted Emission | §15.207               | PASS   |
| Conducted Peak Output Power      | §15.247(b)(3)         | PASS   |
| 6dB Emission Bandwidth           | §15.247(a)(2)         | PASS   |
| Power Spectral Density           | §15.247(e)            | PASS   |
| Band Edge                        | §15.247(d)            | PASS   |
| Spurious Emission                | §15.205/§15.209       | PASS   |

### Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

## 1.2 Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

### 1.3 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 %.

| No. | Item                          | MU                        |
|-----|-------------------------------|---------------------------|
| 1   | Conducted Emission            | $\pm 2.71\text{dB}$       |
| 2   | RF Power, Conducted           | $\pm 0.37\text{dB}$       |
| 3   | Spurious Emissions, Conducted | $\pm 0.11\text{dB}$       |
| 4   | All Emissions, Radiated(<1G)  | $\pm 3.90\text{dB}$       |
| 5   | All Emissions, Radiated(>1G)  | $\pm 4.28\text{dB}$       |
| 6   | Temperature                   | $\pm 0.1^{\circ}\text{C}$ |
| 7   | Humidity                      | $\pm 1.0\%$               |



## 2. EUT Description

### 2.1 General Description of EUT

|                                                                                                                                                                                                                                                                                                                             |                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Equipment:                                                                                                                                                                                                                                                                                                                  | PawPal                                                             |
| Model Name:                                                                                                                                                                                                                                                                                                                 | Z100                                                               |
| Series Model:                                                                                                                                                                                                                                                                                                               | N/A                                                                |
| Model Difference:                                                                                                                                                                                                                                                                                                           | N/A                                                                |
| FCC ID:                                                                                                                                                                                                                                                                                                                     | 2BLKH-Z100                                                         |
| Antenna Type:                                                                                                                                                                                                                                                                                                               | FPC antenna                                                        |
| Antenna Gain:                                                                                                                                                                                                                                                                                                               | 3.6dBi                                                             |
| Operation Frequency:                                                                                                                                                                                                                                                                                                        | 802.11b/g/n 20:2412~2462 MHz<br>802.11n 40: 2422~2452MHz           |
| Number of Channels:                                                                                                                                                                                                                                                                                                         | 802.11b/g/n20: 11CH<br>802.11n 40: 7CH                             |
| Modulation Type:                                                                                                                                                                                                                                                                                                            | DSSS, OFDM                                                         |
| Power Source:                                                                                                                                                                                                                                                                                                               | DC5V from adapter with AC100-240V, 50/60Hz or DC3.65V from battery |
| Power Rating:                                                                                                                                                                                                                                                                                                               | DC5V from adapter with AC100-240V, 50/60Hz or DC3.65V from battery |
| <b>Note:</b><br>1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.<br>2. Antenna gain Refer to the antenna specifications.<br>3. The cable loss data is obtained from the supplier.<br>4. The test results in the report only apply to the tested sample. |                                                                    |

## 2.2 Carrier Frequency of Channels

| Channel List For 802.11b/802.11g/802.11n (HT20) |                 |         |                 |         |                 |         |                 |
|-------------------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                                         | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01                                              | 2412            | 04      | 2427            | 07      | 2442            | 10      | 2457            |
| 02                                              | 2417            | 05      | 2432            | 08      | 2447            | 11      | 2462            |
| 03                                              | 2422            | 06      | 2437            | 09      | 2452            | --      | --              |

| Channel List For 802.11n (HT40) |                 |         |                 |         |                 |         |                 |
|---------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                         | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| --                              | --              | 04      | 2427            | 07      | 2442            | --      | --              |
| --                              | --              | 05      | 2432            | 08      | 2447            | --      | --              |
| 03                              | 2422            | 06      | 2437            | 09      | 2452            | --      | --              |

### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

## 2.3 Operation of EUT during Testing

### Operating Mode

The mode is used: **Transmitting mode for 802.11b/802.11g/802.11n (HT20)**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

The mode is used: **Transmitting mode for 802.11n (HT40)**

Low Channel: 2422MHz

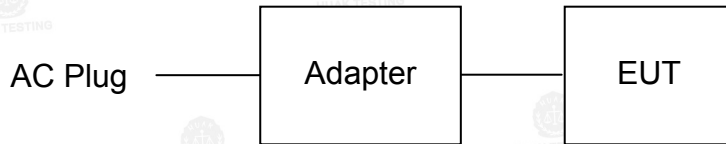
Middle Channel: 2437MHz

High Channel: 2452MHz



## 2.4 Description of Test Setup

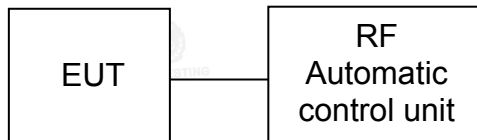
Operation of EUT during AC Conducted and Radiation below 1GHz testing:



Operation of EUT during Radiation Above 1GHz testing:



Operation of EUT during RF conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

### 3. General Information

#### 3.1 Test Environment and Mode

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |      |            |         |       |         |       |               |       |               |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------|------------|---------|-------|---------|-------|---------------|-------|---------------|-------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25.0 °C                                                                   |      |            |         |       |         |       |               |       |               |       |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56 % RH                                                                   |      |            |         |       |         |       |               |       |               |       |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1010 mbar                                                                 |      |            |         |       |         |       |               |       |               |       |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                           |      |            |         |       |         |       |               |       |               |       |
| Engineering Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Keep the EUT in continuous transmitting by select channel and modulations |      |            |         |       |         |       |               |       |               |       |
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                           |      |            |         |       |         |       |               |       |               |       |
| Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           |      |            |         |       |         |       |               |       |               |       |
| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Data rate                                                                 |      |            |         |       |         |       |               |       |               |       |
| 802.11b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1Mbps                                                                     |      |            |         |       |         |       |               |       |               |       |
| 802.11g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6Mbps                                                                     |      |            |         |       |         |       |               |       |               |       |
| 802.11n(HT20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6.5Mbps                                                                   |      |            |         |       |         |       |               |       |               |       |
| 802.11n(HT40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 13.5Mbps                                                                  |      |            |         |       |         |       |               |       |               |       |
| Final Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           |      |            |         |       |         |       |               |       |               |       |
| Operation Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Keep the EUT in continuous transmitting with modulation                   |      |            |         |       |         |       |               |       |               |       |
| <p>1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.</p> <p>2. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20), 13.5Mbps for 802.11n(HT40).</p> <p>3. Mode Test Duty Cycle</p> <table border="1"> <thead> <tr> <th>Mode</th><th>Duty Cycle</th></tr> </thead> <tbody> <tr> <td>802.11b</td><td>0.994</td></tr> <tr> <td>802.11g</td><td>0.958</td></tr> <tr> <td>802.11n(HT20)</td><td>0.955</td></tr> <tr> <td>802.11n(HT40)</td><td>0.926</td></tr> </tbody> </table> |                                                                           | Mode | Duty Cycle | 802.11b | 0.994 | 802.11g | 0.958 | 802.11n(HT20) | 0.955 | 802.11n(HT40) | 0.926 |
| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Duty Cycle                                                                |      |            |         |       |         |       |               |       |               |       |
| 802.11b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.994                                                                     |      |            |         |       |         |       |               |       |               |       |
| 802.11g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.958                                                                     |      |            |         |       |         |       |               |       |               |       |
| 802.11n(HT20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.955                                                                     |      |            |         |       |         |       |               |       |               |       |
| 802.11n(HT40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.926                                                                     |      |            |         |       |         |       |               |       |               |       |
| Test plots as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |      |            |         |       |         |       |               |       |               |       |



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### 3.2 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Trade Mark    | Model/Type No.     | Specification                                               | Remark    |
|------|-----------|---------------|--------------------|-------------------------------------------------------------|-----------|
| 1    | PawPal    | Think Academy | Z100               | N/A                                                         | EUT       |
| 2    | USB Cable | N/A           | N/A                | Length: 120cm                                               | Accessory |
| 3    | Adapter   | N/A           | TPA-418G050100UU01 | Input: AC100-240V, 50/60Hz, 0.3A<br>Output: DC5V, 1.0A 5.0W | Accessory |
|      |           |               |                    |                                                             |           |
|      |           |               |                    |                                                             |           |
|      |           |               |                    |                                                             |           |
|      |           |               |                    |                                                             |           |
|      |           |               |                    |                                                             |           |
|      |           |               |                    |                                                             |           |

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

## 4. Test Results and Measurement Data

### 4.1 AC Conducted Emission

#### Test Specification

| Test Requirement:     | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method:          | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Frequency Range:      | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Receiver Setup:       | RBW=9 kHz, VBW=30 kHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Limits:               | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                | Frequency range (MHz) | Limit (dBuV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Average               |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 56 to 46*             |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 46                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Setup:           | <div><p>Reference Plane</p><p>40cm</p><p>E.U.T</p><p>AC power</p><p>80cm</p><p>LISN</p><p>Filter</p><p>AC power</p><p>EMI Receiver</p><p>Test table/Insulation plane</p><p>Remark<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Mode:            | Transmitting with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Procedure:       | <div><div>1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div></div> |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Result:          | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |

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**Test Instruments**

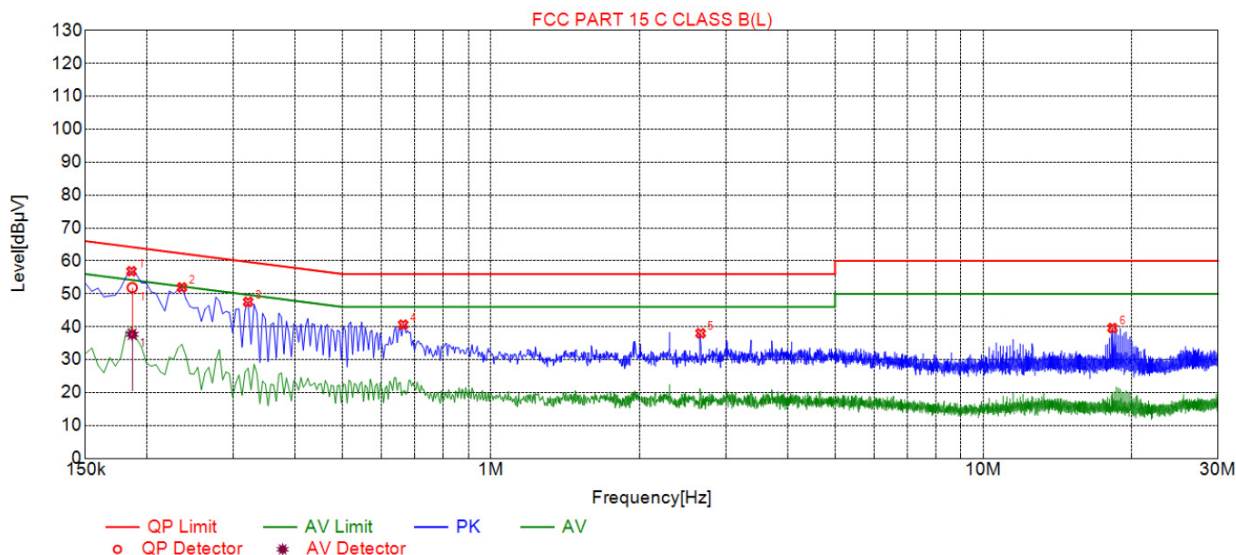
| Conducted Emission Shielding Room Test Site (843) |              |                    |               |                  |                 |
|---------------------------------------------------|--------------|--------------------|---------------|------------------|-----------------|
| Equipment                                         | Manufacturer | Model              | Serial Number | Calibration Date | Calibration Due |
| Receiver                                          | R&S          | ESR                | HKE-005       | Feb. 19, 2025    | Feb. 18, 2026   |
| LISN                                              | R&S          | ENV216             | HKE-002       | Feb. 19, 2025    | Feb. 18, 2026   |
| LISN                                              | R&S          | ENV216             | HKE-059       | Feb. 19, 2025    | Feb. 18, 2026   |
| Coax cable<br>(9KHz-30MHz)                        | Times        | 381806-002         | N/A           | Feb. 19, 2025    | Feb. 18, 2026   |
| EMI Test Software                                 | Tonscend     | JS32-CE<br>2.5.0.6 | HKE-081       | Feb. 19, 2025    | Feb. 18, 2026   |
| 10dB Attenuator                                   | Schwarzbeck  | VTSD9561F          | HKE-153       | Feb. 19, 2025    | Feb. 18, 2026   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 4.2 Test Result

Test Specification: Line



### Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1   | 0.1860      | 56.85        | 19.76       | 64.21        | 7.36        | 37.09          | PK       | L    |
| 2   | 0.2355      | 51.95        | 19.83       | 62.25        | 10.30       | 32.12          | PK       | L    |
| 3   | 0.3210      | 47.54        | 19.85       | 59.68        | 12.14       | 27.69          | PK       | L    |
| 4   | 0.6630      | 40.62        | 19.69       | 56.00        | 15.38       | 20.93          | PK       | L    |
| 5   | 2.6655      | 38.01        | 20.24       | 56.00        | 17.99       | 17.77          | PK       | L    |
| 6   | 18.3030     | 39.60        | 22.60       | 60.00        | 20.40       | 17.00          | PK       | L    |

### Final Data List

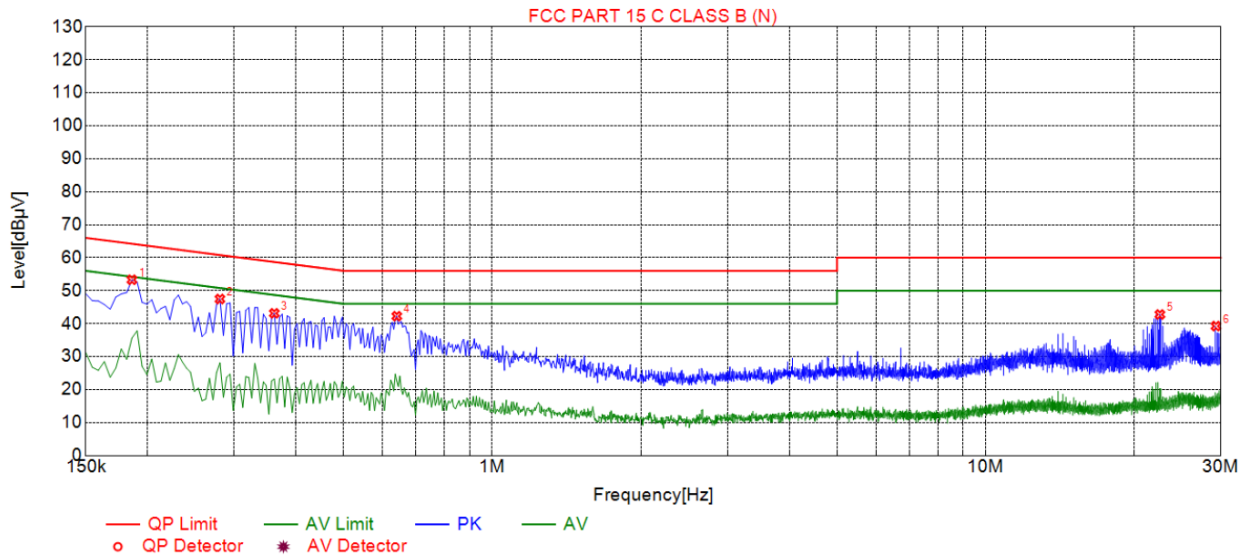
| NO. | Freq. [MHz] | Correction factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | QP Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | AV Reading [dBμV] | Type |
|-----|-------------|------------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|-------------------|------|
| 1   | 0.1866      | 19.77                  | 51.90           | 64.18           | 12.28          | 32.13             | 37.72           | 54.18           | 16.46          | 17.95             | L    |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



## Suspected List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV] | Factor<br>[dB] | Limit<br>[dBμV] | Margin<br>[dB] | Reading<br>[dBμV] | Detector | Type |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1   | 0.1860         | 53.31           | 19.65          | 64.21           | 10.90          | 33.66             | PK       | N    |
| 2   | 0.2805         | 47.47           | 19.67          | 60.80           | 13.33          | 27.80             | PK       | N    |
| 3   | 0.3615         | 43.13           | 19.69          | 58.69           | 15.56          | 23.44             | PK       | N    |
| 4   | 0.6405         | 42.25           | 19.75          | 56.00           | 13.75          | 22.50             | PK       | N    |
| 5   | 22.5735        | 42.77           | 23.74          | 60.00           | 17.23          | 19.03             | PK       | N    |
| 6   | 29.3280        | 39.26           | 25.31          | 60.00           | 20.74          | 13.95             | PK       | N    |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

### 4.3 Maximum Peak Conducted Output Power

#### Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Method:</b>      | KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Limit:</b>            | 30dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Setup:</b>       |  <p>RF automatic control unit      EUT</p>                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02.</li> <li>2. The RF output of EUT was connected to the RF automatic control unit by RF cable. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the Peak output power and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Test Instruments

| RF Test Room              |              |                            |               |                  |                 |
|---------------------------|--------------|----------------------------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model                      | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A                     | HKE-025       | Feb. 19, 2025    | Feb. 18, 2026   |
| Power meter               | Agilent      | E4419B                     | HKE-085       | Feb. 19, 2025    | Feb. 18, 2026   |
| Power Sensor              | Agilent      | E9300A                     | HKE-086       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF cable                  | Times        | 1-40G                      | HKE-034       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF automatic control unit | Tonscend     | JS0806-2                   | HKE-060       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF Test Software          | Tonscend     | JS1120-3<br>Version 3.5.39 | HKE-083       | N/A              | N/A             |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### Test Data

| Mode          | Test Channel | Frequency | Maximum Peak Conducted Output Power | LIMIT |
|---------------|--------------|-----------|-------------------------------------|-------|
|               |              | (MHz)     | (dBm)                               | dBm   |
| 802.11b       | CH01         | 2412      | 16.75                               | 30    |
| 802.11b       | CH06         | 2437      | 16.32                               | 30    |
| 802.11b       | CH11         | 2462      | 16.01                               | 30    |
| 802.11g       | CH01         | 2412      | 13.64                               | 30    |
| 802.11g       | CH06         | 2437      | 14.06                               | 30    |
| 802.11g       | CH11         | 2462      | 14.22                               | 30    |
| 802.11n(HT20) | CH01         | 2412      | 13.11                               | 30    |
| 802.11n(HT20) | CH06         | 2437      | 13.55                               | 30    |
| 802.11n(HT20) | CH11         | 2462      | 13.68                               | 30    |
| 802.11n(HT40) | CH03         | 2422      | 14.30                               | 30    |
| 802.11n(HT40) | CH06         | 2437      | 14.84                               | 30    |
| 802.11n(HT40) | CH09         | 2452      | 14.93                               | 30    |

Note: The test results including the cable loss.



## 4.4 Emission Bandwidth

### Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Method:</b>      | KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Limit:</b>            | >500kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>4. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### Test Instruments

| RF Test Room              |              |                         |               |                  |                 |
|---------------------------|--------------|-------------------------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model                   | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A                  | HKE-025       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF cable                  | Times        | 1-40G                   | HKE-034       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF automatic control unit | Tonscend     | JS0806-2                | HKE-060       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF Test Software          | Tonscend     | JS1120-3 Version 3.5.39 | HKE-083       | N/A              | N/A             |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



### Test Data

| Test Channel | 6dB Emission Bandwidth (MHz) |         |               |               |
|--------------|------------------------------|---------|---------------|---------------|
|              | 802.11b                      | 802.11g | 802.11n(HT20) | 802.11n(HT40) |
| Lowest       | 9.040                        | 16.360  | 17.560        | 35.120        |
| Middle       | 9.080                        | 16.360  | 17.560        | 35.360        |
| Highest      | 9.080                        | 16.280  | 17.280        | 35.040        |
| Limit:       | >500kHz                      |         |               |               |
| Test Result: | PASS                         |         |               |               |

Test plots as follows:

# 802.11b Modulation

## Lowest channel



## Middle channel

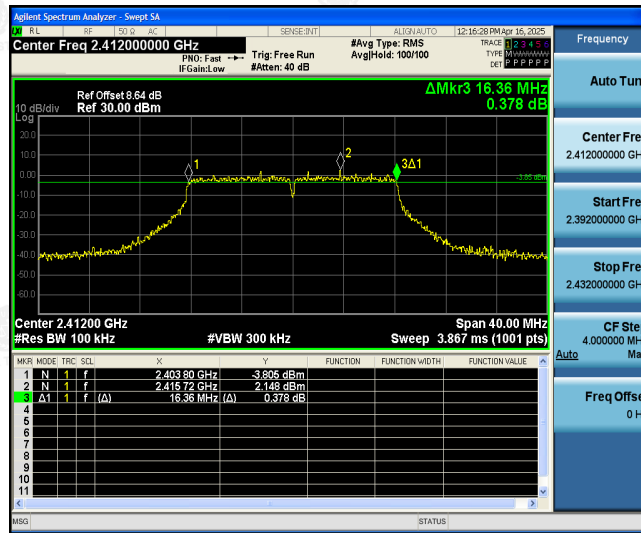


## Highest channel

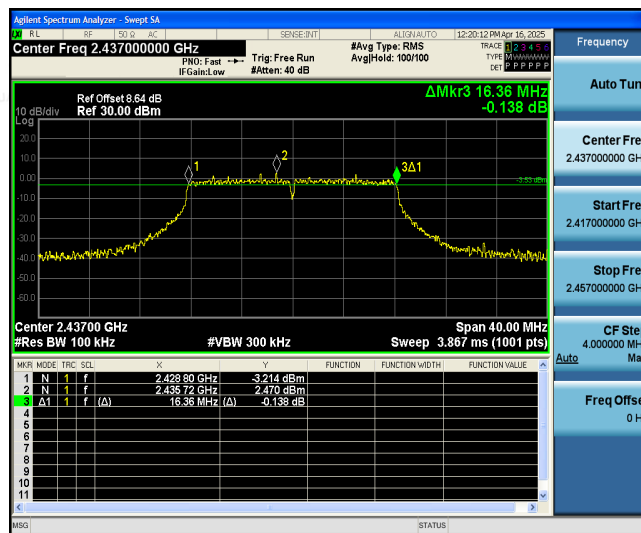


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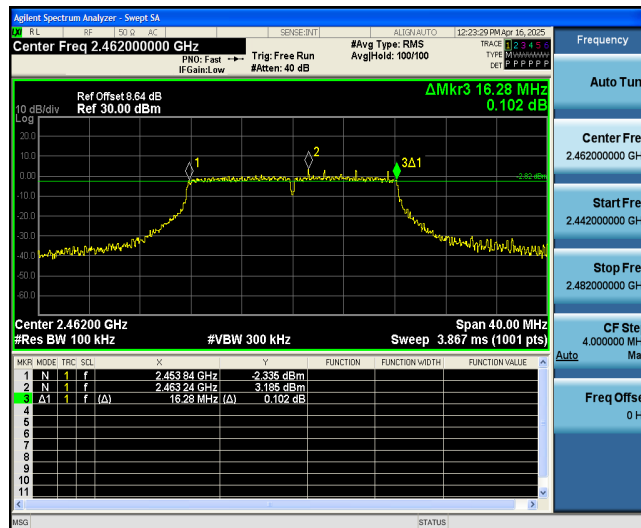
### Lowest channel



### Middle channel



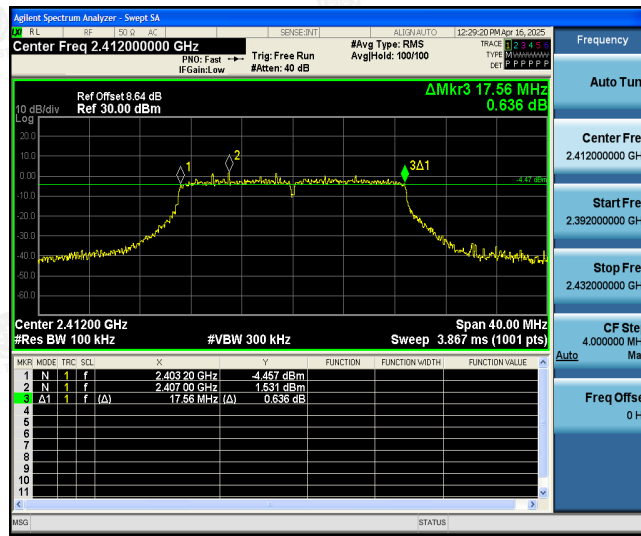
### Highest channel



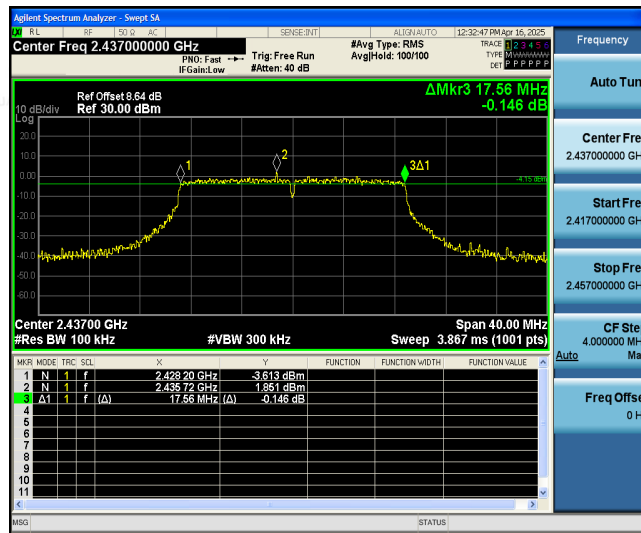
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## 802.11n (HT20) Modulation

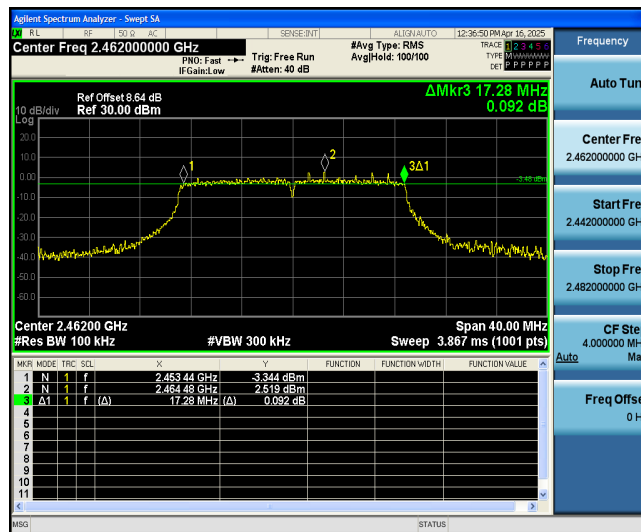
### Lowest channel



### Middle channel



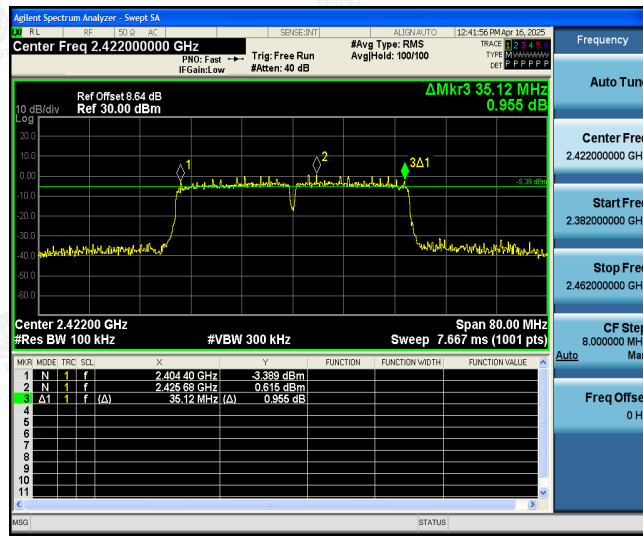
### Highest channel



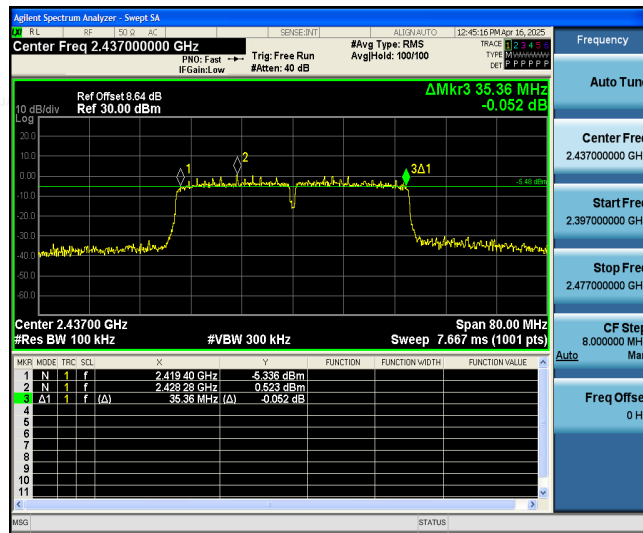
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## 802.11n (HT40) Modulation

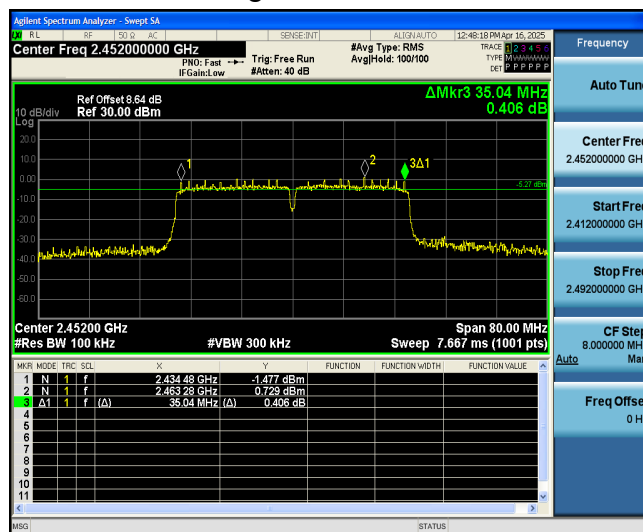
### Lowest channel



### Middle channel



### Highest channel



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## 4.5 Power Spectral Density

### Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Test Method:</b>      | KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Limit:</b>            | The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): <math>3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}</math>. Video bandwidth VBW <math>\geq 3 \times \text{RBW}</math>. Set the span to at least 1.5 times the OBW.</li> <li>5. Detector = Peak, Sweep time = auto couple.</li> <li>6. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>7. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Test Instruments

| RF Test Room              |              |                            |               |                  |                 |
|---------------------------|--------------|----------------------------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model                      | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A                     | HKE-025       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF cable                  | Times        | 1-40G                      | HKE-034       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF automatic control unit | Tonscend     | JS0806-2                   | HKE-060       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF Test Software          | Tonscend     | JS1120-3<br>Version 3.5.39 | HKE-083       | N/A              | N/A             |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

# Test Data

| EUT Set Mode                                               | Channel | Result (dBm/30KHz) | Result (dBm/3kHz) |
|------------------------------------------------------------|---------|--------------------|-------------------|
| 802.11b                                                    | Lowest  | 0.59               | -9.41             |
|                                                            | Middle  | 1.93               | -8.07             |
|                                                            | Highest | 0.91               | -9.09             |
| 802.11g                                                    | Lowest  | -2.29              | -12.29            |
|                                                            | Middle  | -2.26              | -12.26            |
|                                                            | Highest | -1.37              | -11.37            |
| 802.11n(HT20)                                              | Lowest  | -2.74              | -12.74            |
|                                                            | Middle  | -2.23              | -12.23            |
|                                                            | Highest | -1.84              | -11.84            |
| 802.11n(HT40)                                              | Lowest  | -2.48              | -12.48            |
|                                                            | Middle  | -2.70              | -12.70            |
|                                                            | Highest | -2.54              | -12.54            |
| PSD Test Result (dBm/3kHz)= PSD Test Result (dBm/30kHz)-10 |         |                    |                   |
| Limit: 8dBm/3kHz                                           |         |                    |                   |
| Test Result:                                               | PASS    |                    |                   |

Test plots as follows:

### Lowest channel



### Middle channel

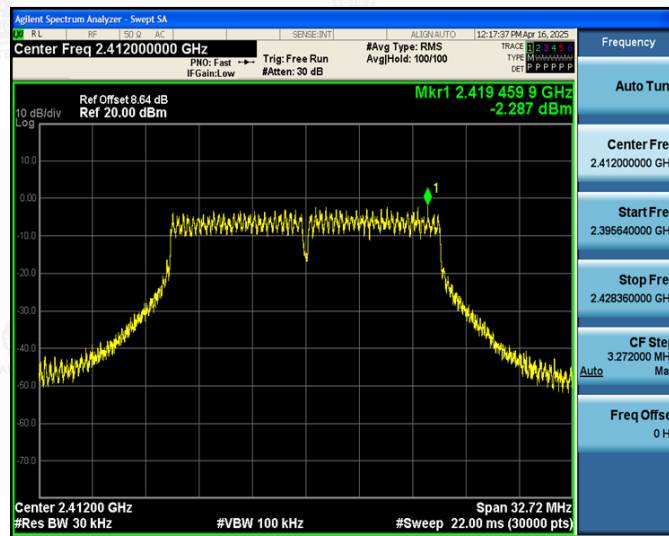


### Highest channel

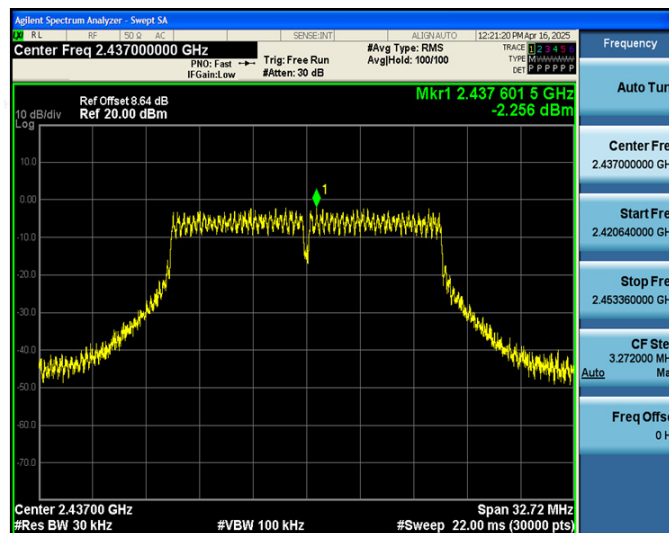


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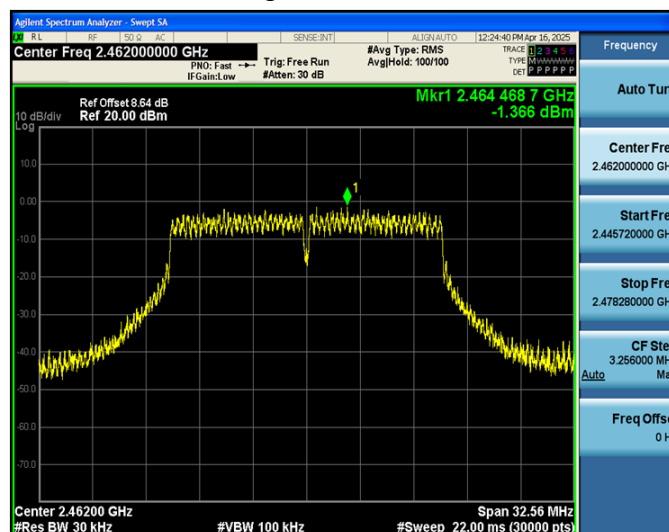
### Lowest channel



### Middle channel



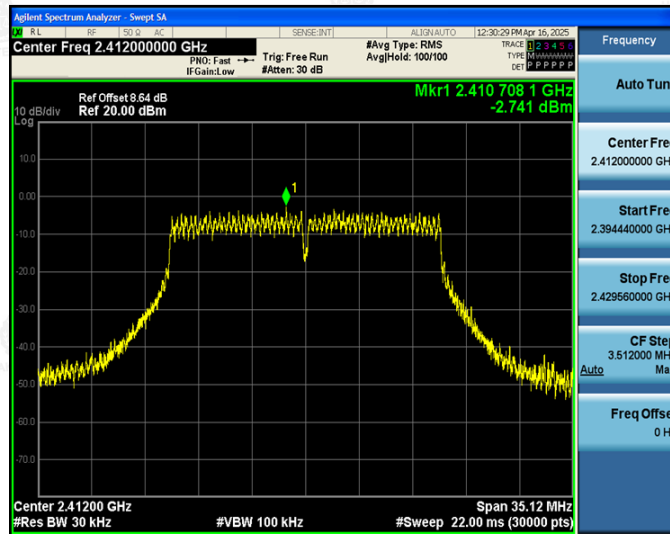
### Highest channel



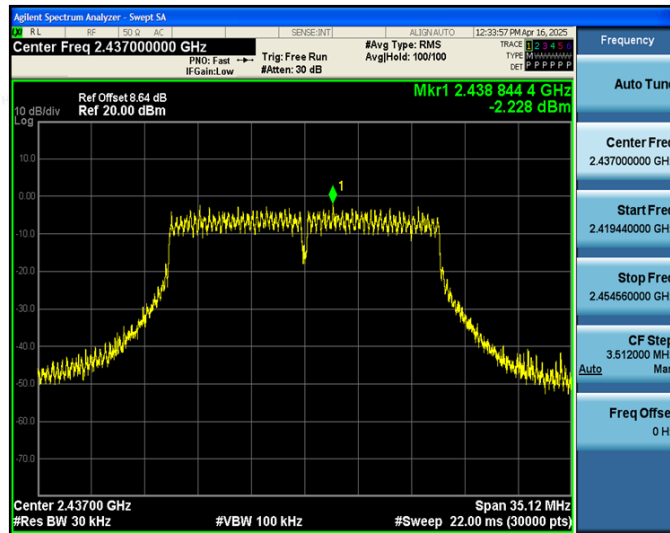
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**802.11n (HT20) Modulation**

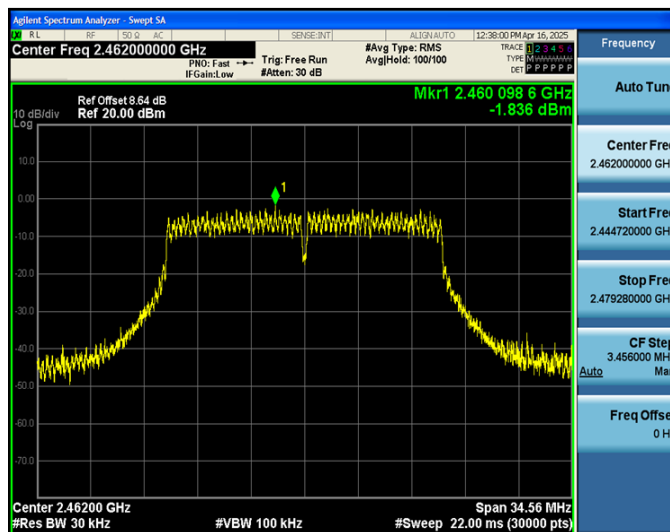
**Lowest channel**



**Middle channel**



**Highest channel**

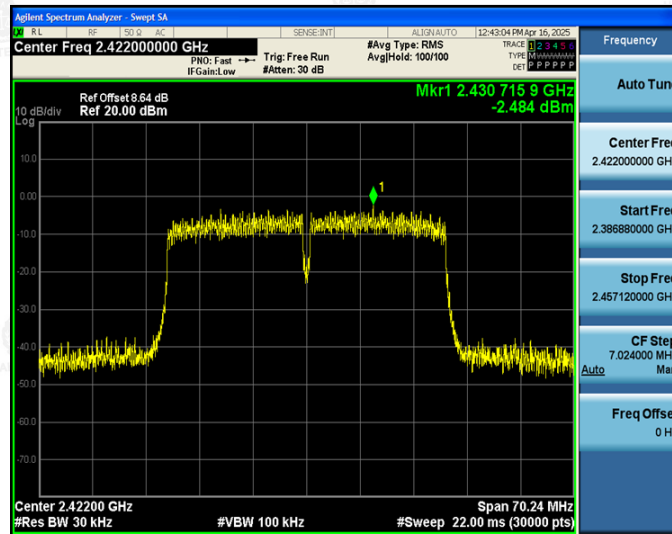


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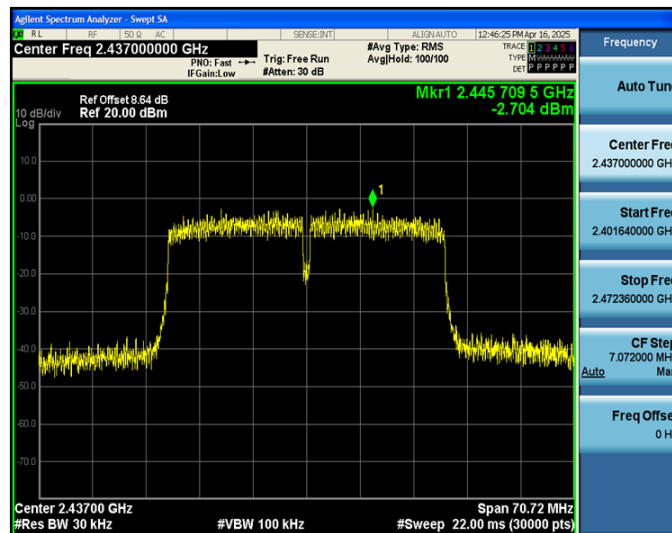


**802.11n (HT40) Modulation**

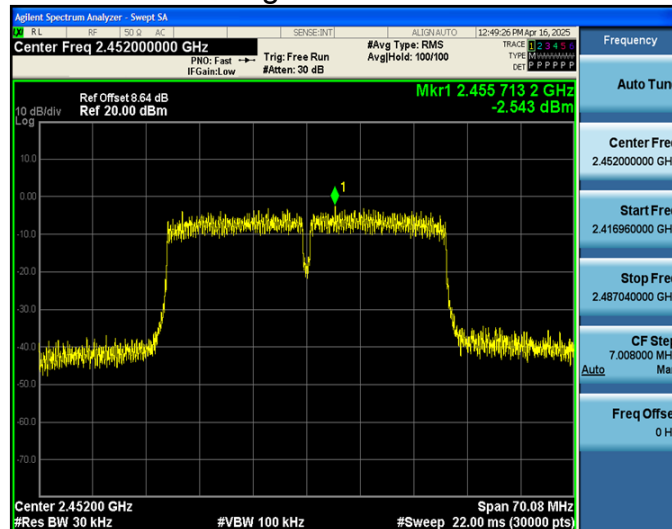
**Lowest channel**



**Middle channel**



**Highest channel**



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## 4.6 Conducted Band Edge and Spurious Emission Measurement

### Test Specification

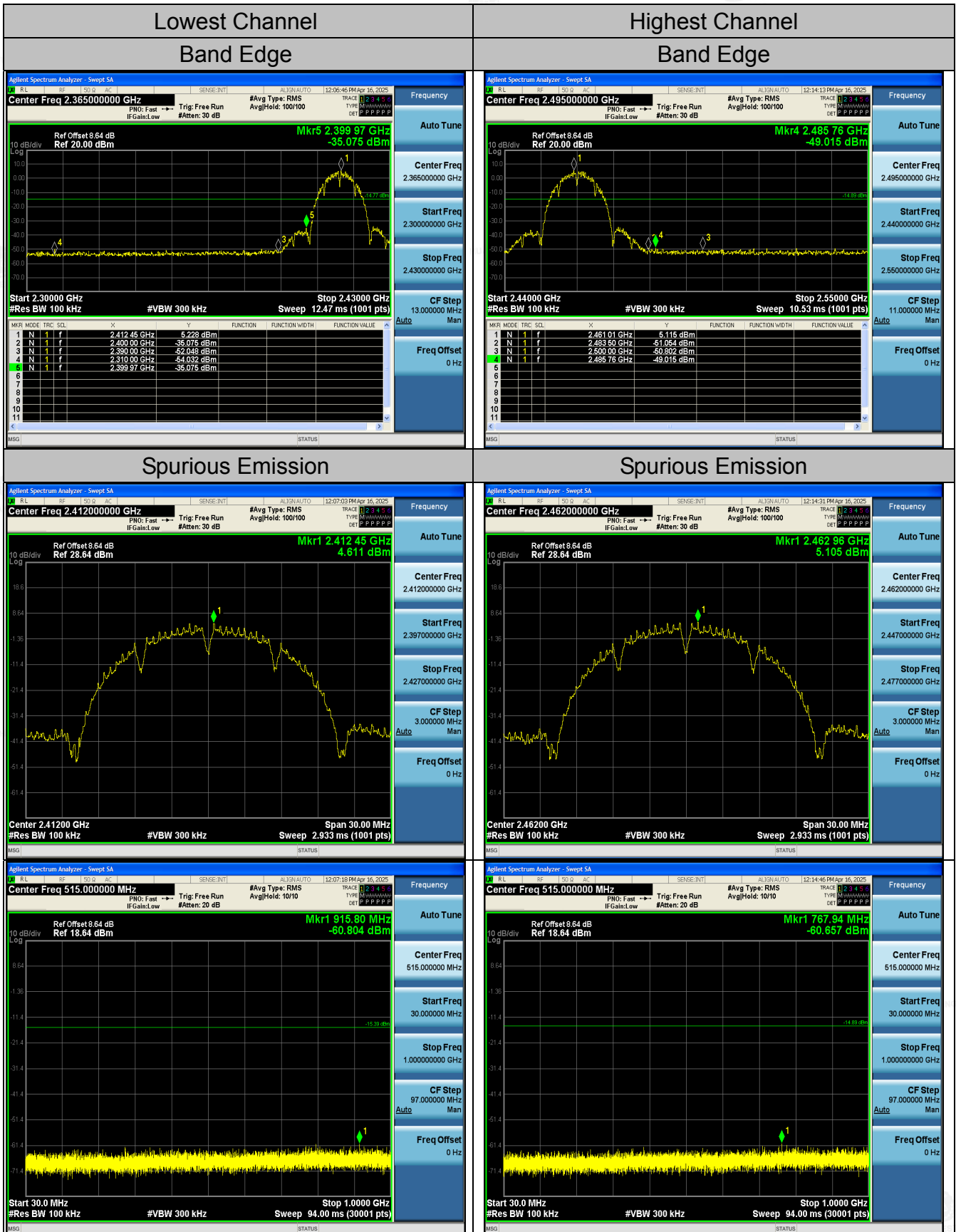
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Method:</b>      | KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Limit:</b>            | In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>5. Measure and record the results in the test report.</li> <li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Test Instruments

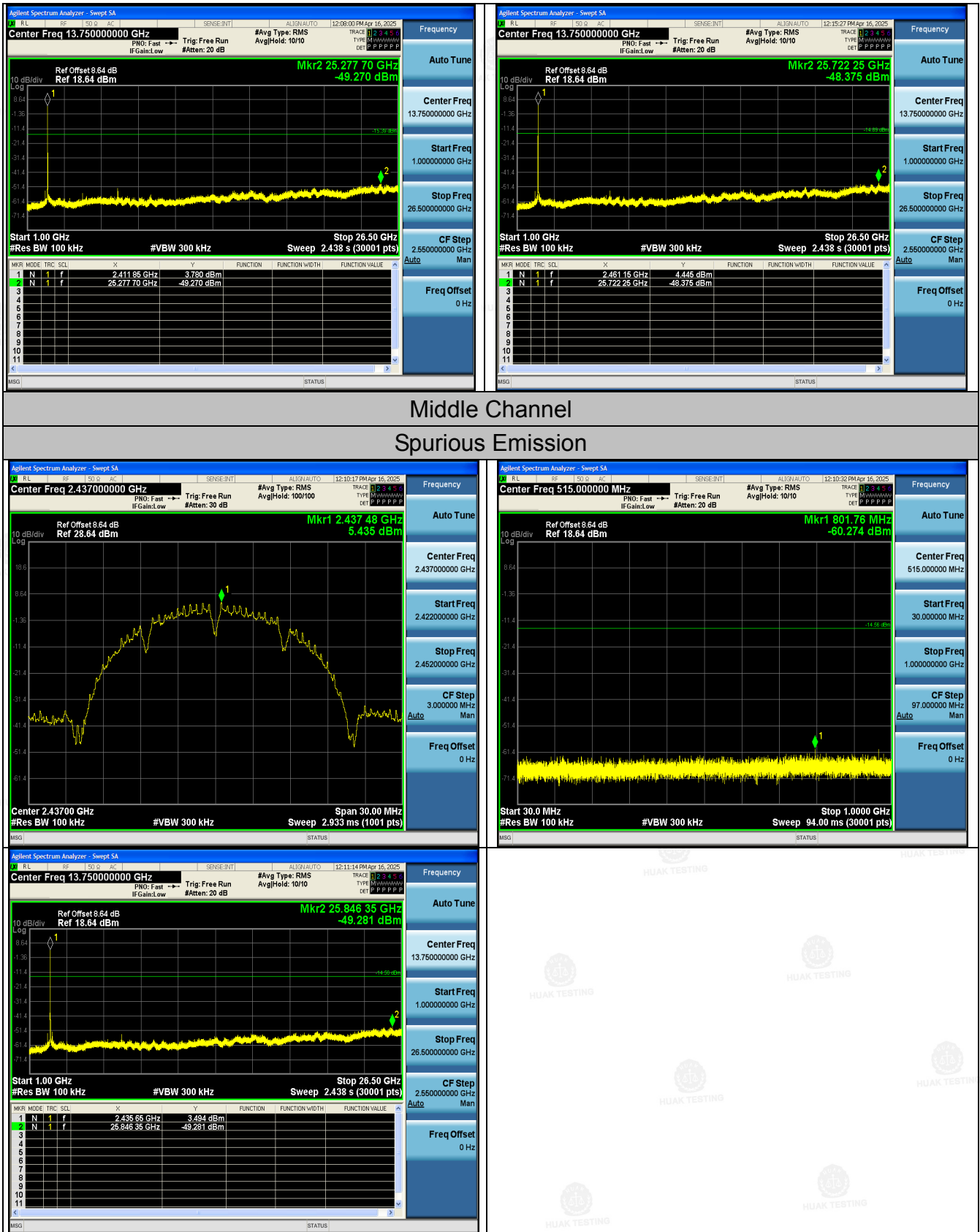
| RF Test Room              |              |                            |               |                  |                 |
|---------------------------|--------------|----------------------------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model                      | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A                     | HKE-025       | Feb. 19, 2025    | Feb. 18, 2026   |
| High pass filter unit     | Tonscend     | JS0806-F                   | HKE-055       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF Cable (9KHz-26.5GHz)   | Tonscend     | 170660                     | N/A           | Feb. 19, 2025    | Feb. 18, 2026   |
| RF automatic control unit | Tonscend     | JS0806-2                   | HKE-060       | Feb. 19, 2025    | Feb. 18, 2026   |
| RF Test software          | Tonscend     | JS1120-3<br>Version 3.5.39 | HKE-083       | N/A              | N/A             |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

802.11b Modulation



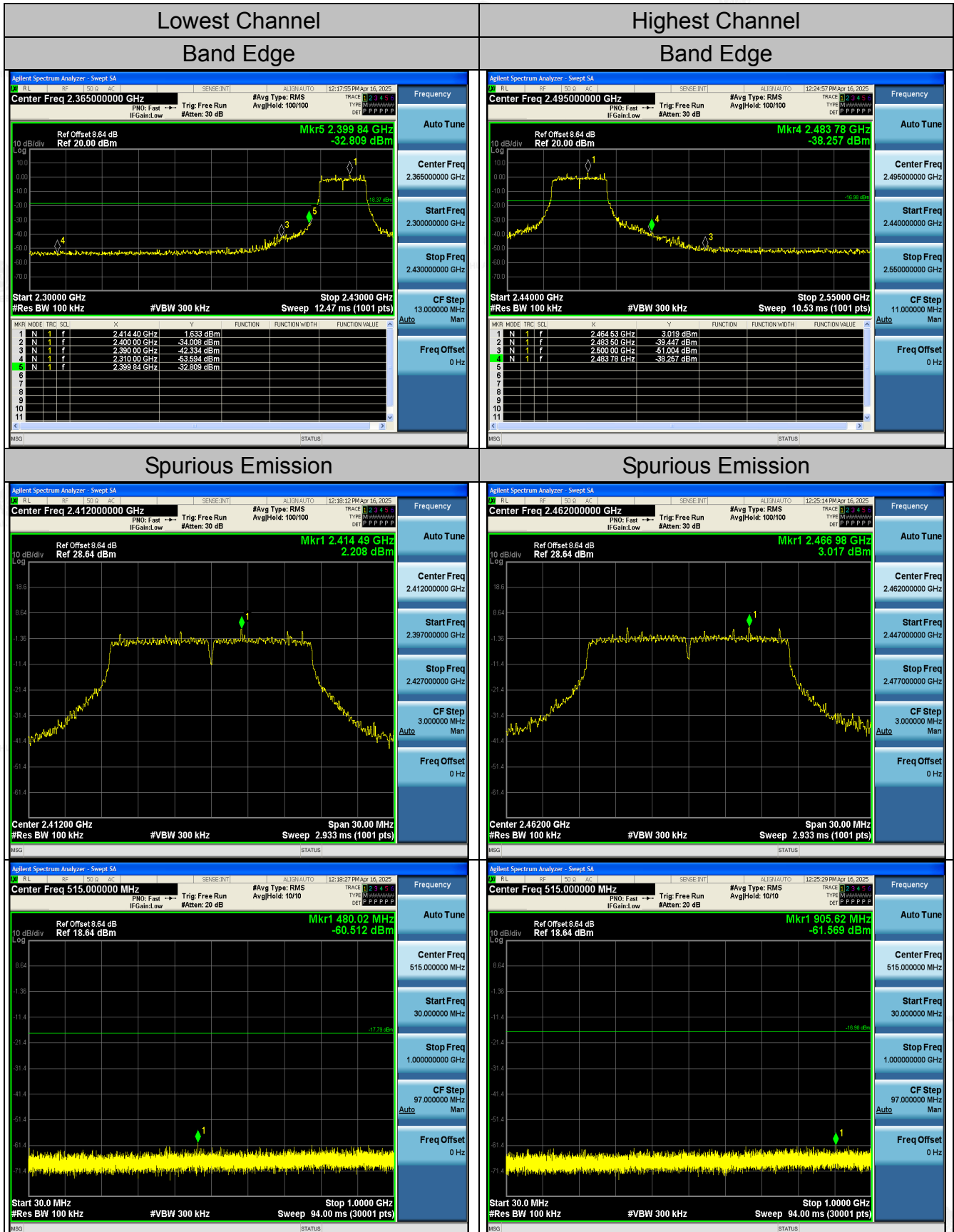
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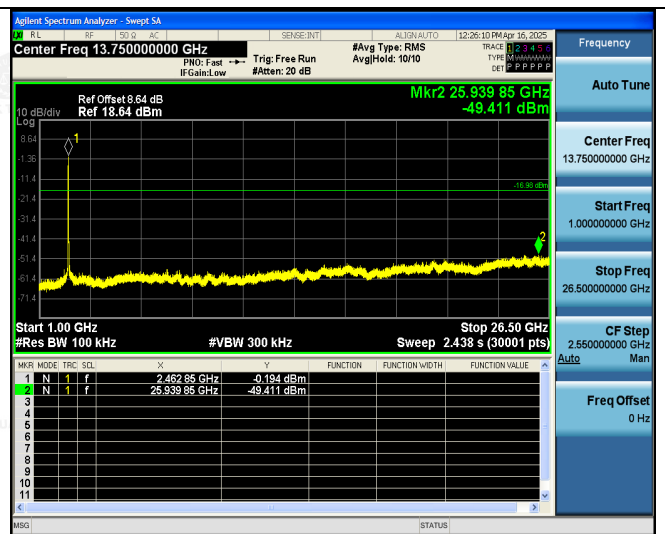
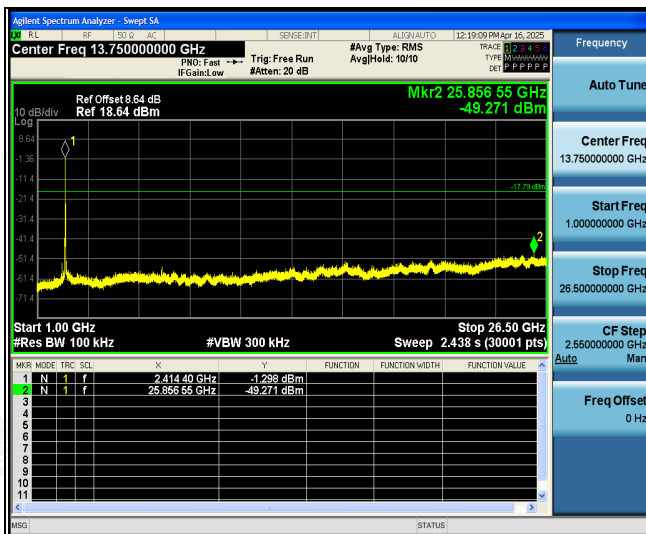


## 802.11g Modulation

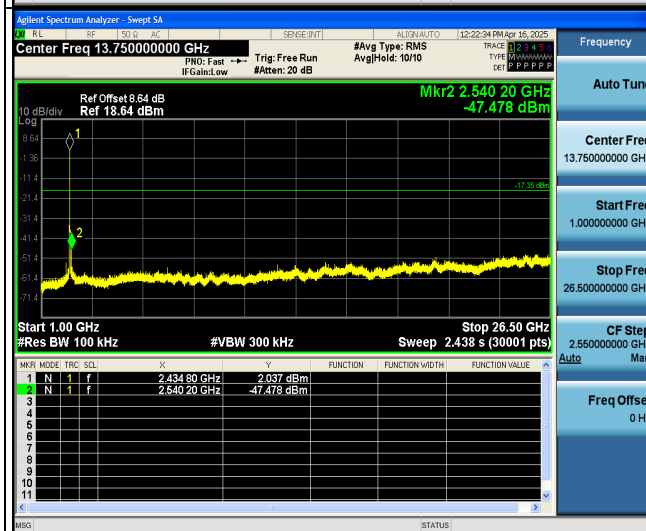
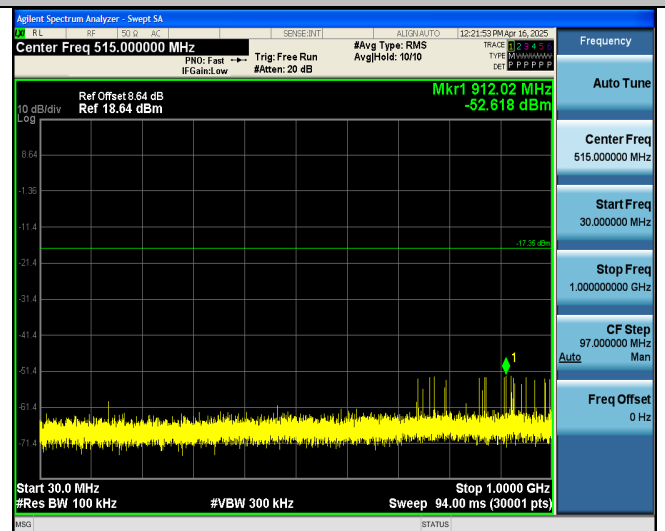


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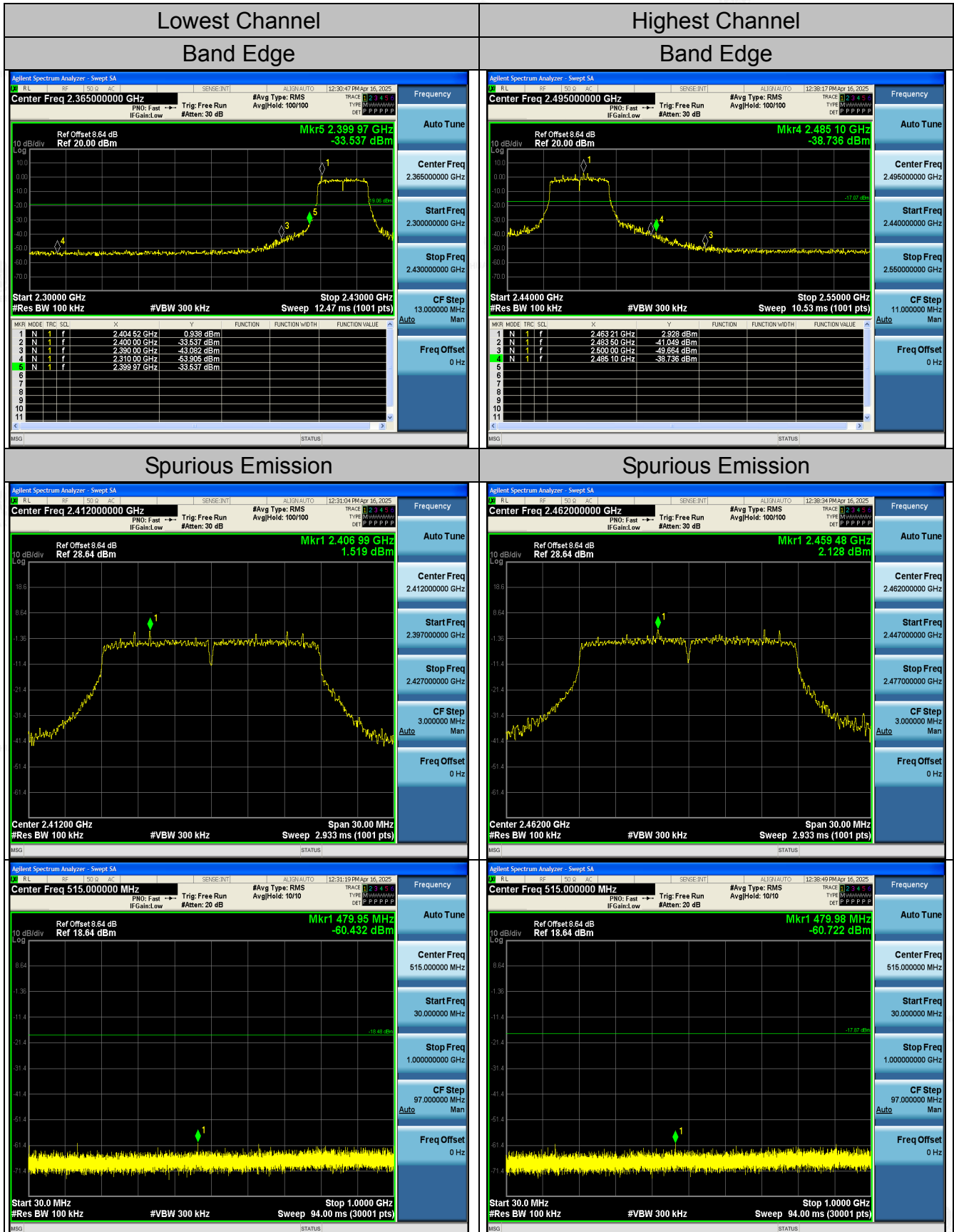




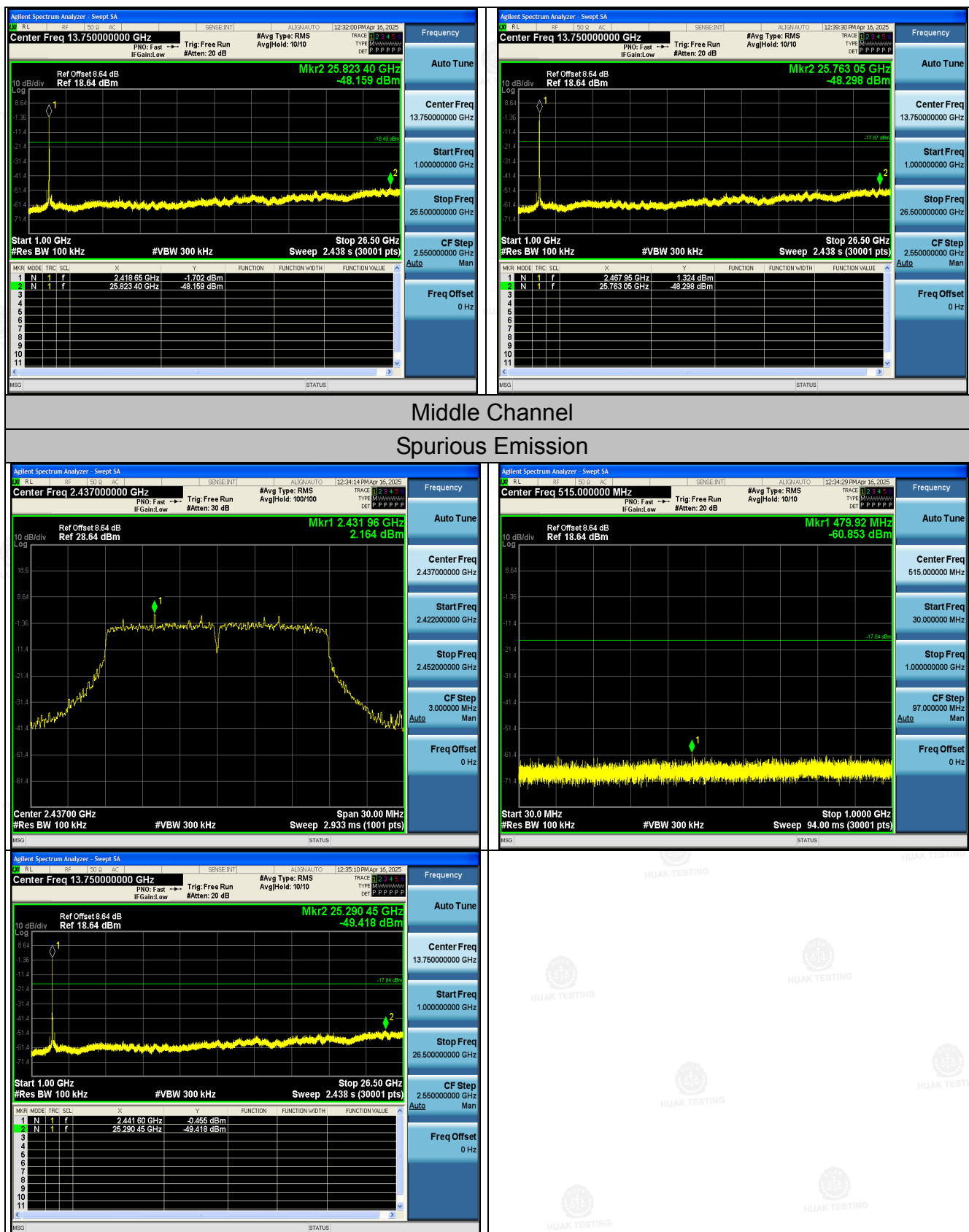
### Middle Channel Spurious Emission



## 802.11n (HT20) Modulation



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