

REPORT  
TIMEWAY TESTING LABORATORIES  
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Report No.: TWN2505548-03E

Applicant: Heilongjiang Huida Technology Co., Ltd.

Product: HD525 Agricultural Drone

Model No.: 3WWDZ-U25A

Trademark:

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

*Terry Tang*

---

Terry Tang

Manager

Dated: May 20, 2025

**Results appearing herein relate only to the sample tested  
The technical reports is issued errors and omissions exempt and is subject  
to withdrawal at**

### SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



## **Special Statement:**

### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

### **CAB identifier: CN0033**

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Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site Listed with Federal Communications commission (FCC)  
Registration Number: 744189  
For 3m Anechoic Chamber  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Heilongjiang Huida Technology Co., Ltd.  
Address: Building 1, Science and Technology Innovation Headquarters, Shenzhen (Harbin) Industrial Park, No. 288 Zhigu Street, Songbei District, Harbin, China

### 1.3 Description of EUT

Product: HD525 Agricultural Drone  
Manufacturer: Heilongjiang Huida Technology Co., Ltd.  
Address: Building 1, Science and Technology Innovation Headquarters, Shenzhen (Harbin) Industrial Park, No. 288 Zhigu Street, Songbei District, Harbin, China

Trademark:



Additional Trademark: N/A  
Model Number: 3WWDZ-U25A  
Additional Model Number: N/A  
Hardware Version: HC402\_RK3568PWR\_P2  
Software Version: 3.24.1.0  
Serial No.: 53080012  
Battery: DC67.5V, 20000mAh Li-ion battery  
Type of Modulation: OFDM  
Frequency List: 1.25MHz Bandwidth: 2405, 2410, 2415, 2420, 2425, 2430, 2435, 2440, 2445, 2450, 2455, 2460, 2465, 2470, 2475, 2480  
(Unit: MHz) 10MHz Bandwidth: 2410, 2420, 2430, 2440, 2450, 2460, 2470  
Antenna: Rod antennas with gain 3.34dBi Max for each one (Get from the antenna

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specification)

Remark: EUT supports SISO Mode and MIMO Mode

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2025-05-08 to 2025-05-20

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

A handwritten signature in black ink that reads "Andy Xing".

Print Name: Andy Xing

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## 2.0 Test Equipment

| Instrument Type    | Manufacturer | Model            | Serial No.   | Date of Cal. | Due Date   |
|--------------------|--------------|------------------|--------------|--------------|------------|
| ESPI Test Receiver | R&S          | ESPI 3           | 100379       | 2024-07-12   | 2025-07-11 |
| LISN               | R&S          | EZH3-Z5          | 100294       | 2024-07-12   | 2025-07-11 |
| LISN               | R&S          | EZH3-Z5          | 100253       | 2024-07-12   | 2025-07-11 |
| Impuls-Begrenzer   | R&S          | ESH3-Z2          | 100281       | 2024-07-12   | 2025-07-11 |
| Loop Antenna       | EMCO         | 6507             | 00078608     | 2022-07-18   | 2025-07-17 |
| Spectrum           | R&S          | FSIQ26           | 100292       | 2024-07-12   | 2025-07-11 |
| Horn Antenna       | A-INFO       | LB-180400-KF     | J211060660   | 2022-07-18   | 2025-07-17 |
| Horn Antenna       | R&S          | BBHA 9120D       | 9120D-631    | 2022-07-18   | 2025-07-17 |
| Power meter        | Anritsu      | ML2487A          | 6K00003613   | 2024-07-12   | 2025-07-11 |
| Power sensor       | Anritsu      | MA2491A          | 32263        | 2024-07-12   | 2025-07-11 |
| Bilog Antenna      | Schwarebeck  | VULB9163         | 9163/340     | 2022-07-18   | 2025-07-17 |
| 9*6*6 Anechoic     | --           | --               | N/A          | 2022-07-26   | 2025-07-25 |
| EMI Test Receiver  | RS           | ESVB             | 826156/011   | 2024-07-12   | 2025-07-11 |
| EMI Test Receiver  | RS           | ESCS 30          | 834115/006   | 2024-07-12   | 2025-07-11 |
| Spectrum           | HP/Agilent   | E4407B           | MY50441392   | 2024-07-12   | 2025-07-11 |
| Spectrum           | RS           | FSP              | 1164.4391.38 | 2024-07-12   | 2025-07-11 |
| RF Cable           | Zhengdi      | ZT26-NJ-NJ-8M/FA | --           | 2024-07-12   | 2025-07-11 |
| RF Cable           | Zhengdi      | 7m               | --           | 2024-07-12   | 2025-07-11 |
| Pre-Amplifier      | Schwarebeck  | BBV9743          | #218         | 2024-07-12   | 2025-07-11 |
| Pre-Amplifier      | HP/Agilent   | 8449B            | 3008A00160   | 2024-07-12   | 2025-07-11 |
| LISN               | SCHAFFNER    | NNB42            | 00012        | 2024-07-12   | 2025-07-11 |
| ESPI Test Receiver | R&S          | ESPI 3           | 100379       | 2024-07-12   | 2025-07-11 |
| LISN               | R&S          | EZH3-Z5          | 100294       | 2024-07-12   | 2025-07-11 |

## 2.2 Automation Test Software

For Conducted Emission Test

| Name   | Version           |
|--------|-------------------|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

For Radiated Emissions

| Name  | Version |
|---|---------|
| EMI Test Software BL410-EV18.91                 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06  |

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### 3. DESCRIPTION OF TEST MODES

#### 1.25M Bandwidth

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low     | 2405            |
| Middle  | 2440            |
| High    | 2480            |

#### 10M Bandwidth

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low     | 2410            |
| Middle  | 2440            |
| High    | 2470            |

#### Duty Cycle

Note: during the test, the duty cycle was set up to >98%.

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#### 4.0 Technical Details

##### 4.1 Summary of test results

| The EUT has been tested according to the following specifications: |   |             |                 |
|--|---|-------------|-----------------|
| Standard   | Test Type   | Result      | Notes           |
| <b>FCC Part 15, Paragraph15.203</b>                                | <b>Antenna Requirement</b>  | <b>Pass</b> | <b>Complies</b> |
| <b>FCC Part 15, Paragraph15.207</b>                                | <b>Conducted Emission Test</b>  | <b>N/A</b>  | <b>N/A</b>      |
| <b>FCC Part 15 Subpart C<br/>Paragraph 15.247(a)(2) Limit</b>      | <b>Spectrum bandwidth of a<br/>Orthogonal Frequency<br/>Division Multiplex System<br/>Limit: 6dB<br/>bandwidth&gt;500kHz</b>  | <b>Pass</b> | <b>Complies</b> |
| <b>FCC Part 15, Paragraph<br/>15.247(b)</b>                        | <b>Maximum peak output<br/>power<br/>Limit: max. 30dBm</b>  | <b>Pass</b> | <b>Complies</b> |
| <b>FCC Part 15, Paragraph<br/>15.109,15.205 &amp; 15.209</b>       | <b>Transmitter Radiated<br/>Emission<br/>Limit: Table 15.209</b>  | <b>Pass</b> | <b>Complies</b> |
| <b>FCC Part 15, Paragraph<br/>15.247(e)</b>                        | <b>Power Spectral Density<br/>Limit: max. 8dBm/3kHz</b>   | <b>Pass</b> | <b>Complies</b> |
| <b>FCC Part 15, Paragraph<br/>15.247(d)</b>                        | <b>Out of Band Emission and<br/>Restricted Band<br/>Radiation<br/>Limit: 20dB less than<br/>peak value of fundamental<br/>frequency<br/>Restricted band limit:<br/>Table 15.209</b> | <b>Pass</b> | <b>Complies</b> |

##### 4.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

#### 5.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.**

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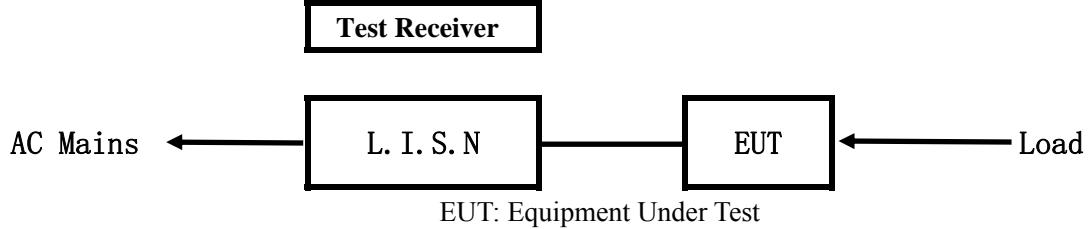
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## 6.0 Power Line Conducted Emission Test

### 6.1 Schematics of the test

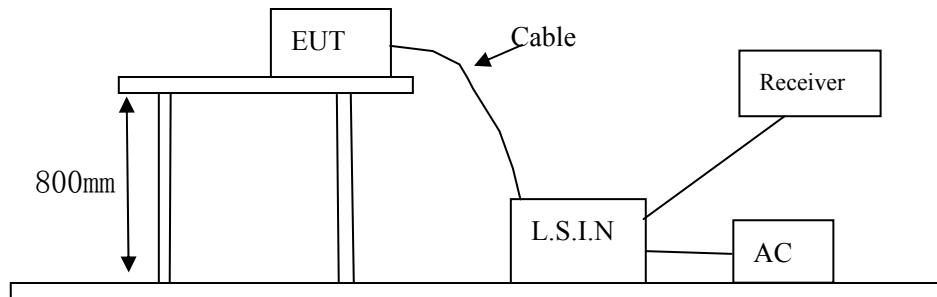


### 6.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: N/A

Block diagram of Test setup



### 6.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

| Device                         | Manufacturer                               | Model           | FCC ID           |
|--------------------------------|--|-----------------|------------------|
| HD525<br>Agricultural<br>Drone | Heilongjiang Huida<br>Technology Co., Ltd. | 3WWDZ-U25A, N/A | 2BBNT-3WWDZ-U25A |

#### B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A    |              |       |            |

#### C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|--------|--------------|-------|------------|-------|
| N/A    |              |       |            |       |

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#### 6.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 6.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency<br>(MHz) | Limits (dB $\mu$ V) |               |
|--------------------|---------------------|---------------|
|                    | Quasi-peak Level    | Average Level |
| 0.15 ~ 0.50        | 66.0~56.0*          | 56.0~46.0*    |
| 0.50 ~ 5.00        | 56.0                | 46.0          |
| 5.00 ~ 30.00       | 60.0                | 50.0          |

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

#### 6.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: EUT not directly or in-directly connected to the AC power source. so this test item not applicable.**

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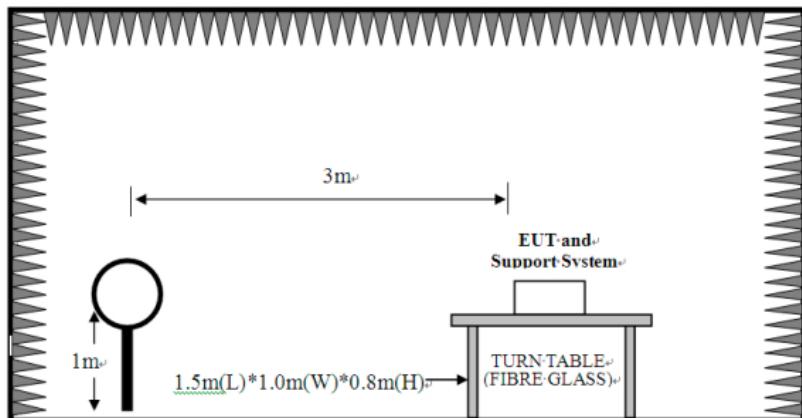
## 7 Radiated Emission Test

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings were performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



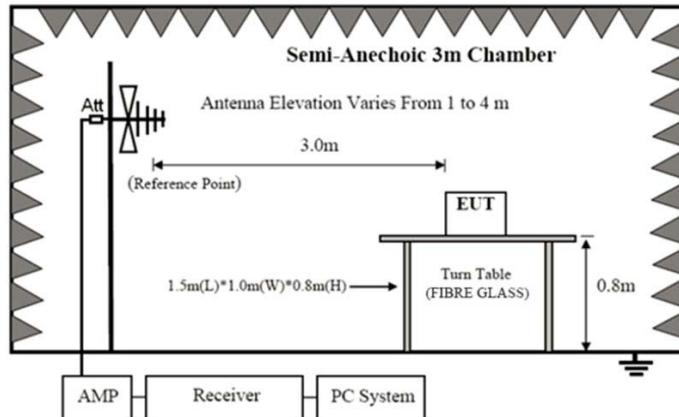
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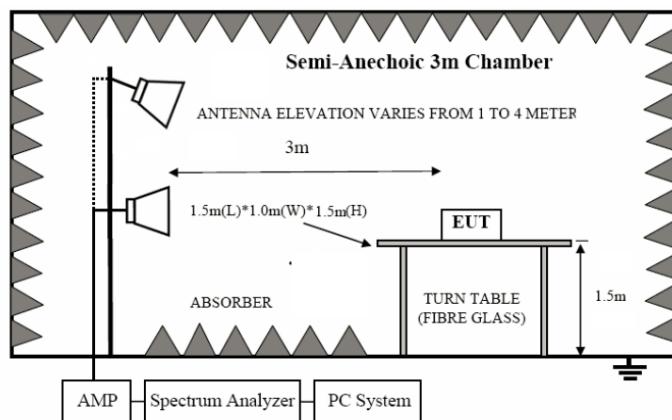
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



## 7.2 Configuration of The EUT

Same as section 5.3 of this report

## 7.3 EUT Operating Condition

Same as section 5.4 of this report.

## 7.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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**Frequencies in restricted band are complied to limit on Paragraph 15.209**

| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m)                |
|-----------------------|--------------|--|
| 0.009-0.049           | 3            | $20\log(2400/F(\text{kHz})) + 40\log(300/3)$ |
| 0.490- 705            | 3            | $20\log(24000/F(\text{kHz})) + 40\log(30/3)$ |
| 1.705-30              | 3            | 69.5   |
| 30-88                 | 3            | 40.0   |
| 88-216                | 3            | 43.5   |
| 216-960               | 3            | 46.0   |
| Above 960             | 3            | 54.0   |

Note:

1. RF Voltage (dBuV) =  $20 \log \text{RF Voltage (uV)}$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
6. Batteries were fully charged during test.
7. MIMO mode was tested and it was the worst case

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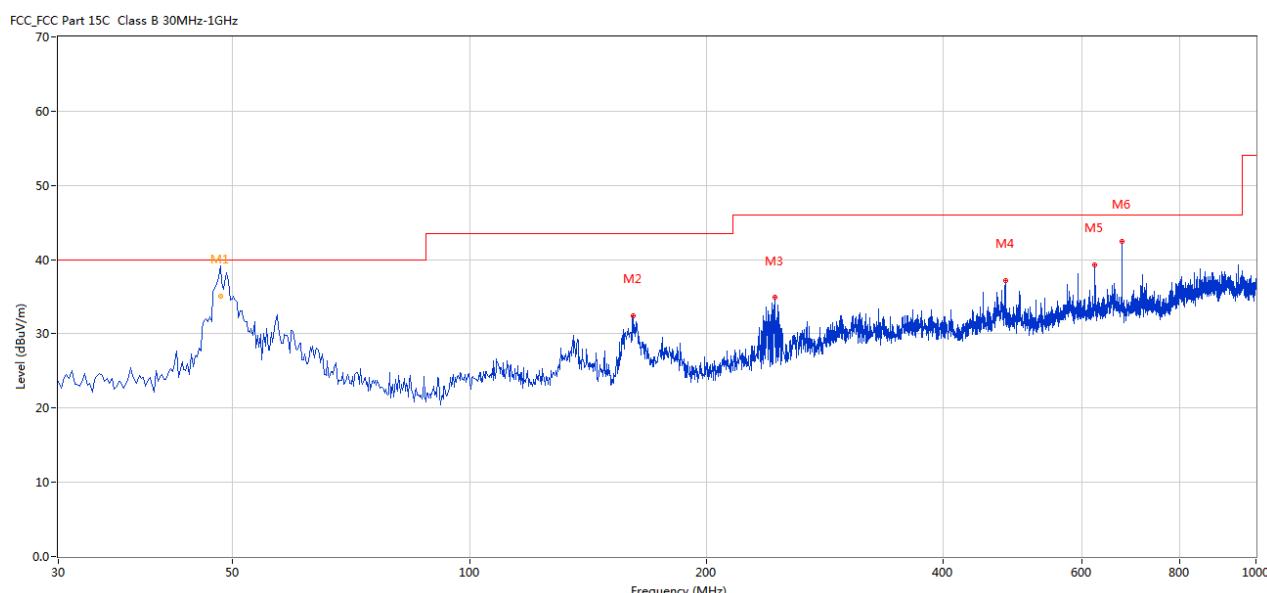
### Test result

### General Radiated Emission Data and Harmonics Radiated Emission Data

#### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

**Results:** **Pass**



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1*  | 48.183          | 35.02            | -5.34       | 40.0           | 4.98        | QP       | 112.00         | 100         | Horizontal | Pass    |
| 2   | 161.645         | 32.43            | -9.67       | 43.5           | 11.07       | Peak     | 60.00          | 100         | Horizontal | Pass    |
| 3   | 244.801         | 34.87            | -5.48       | 46.0           | 11.13       | Peak     | 63.00          | 100         | Horizontal | Pass    |
| 4   | 479.968         | 37.15            | -0.95       | 46.0           | 8.85        | Peak     | 195.00         | 100         | Horizontal | Pass    |
| 5   | 623.977         | 39.31            | 1.40        | 46.0           | 6.69        | Peak     | 132.00         | 100         | Horizontal | Pass    |
| 6   | 674.889         | 42.47            | 1.84        | 46.0           | 3.53        | Peak     | 168.00         | 100         | Horizontal | Pass    |

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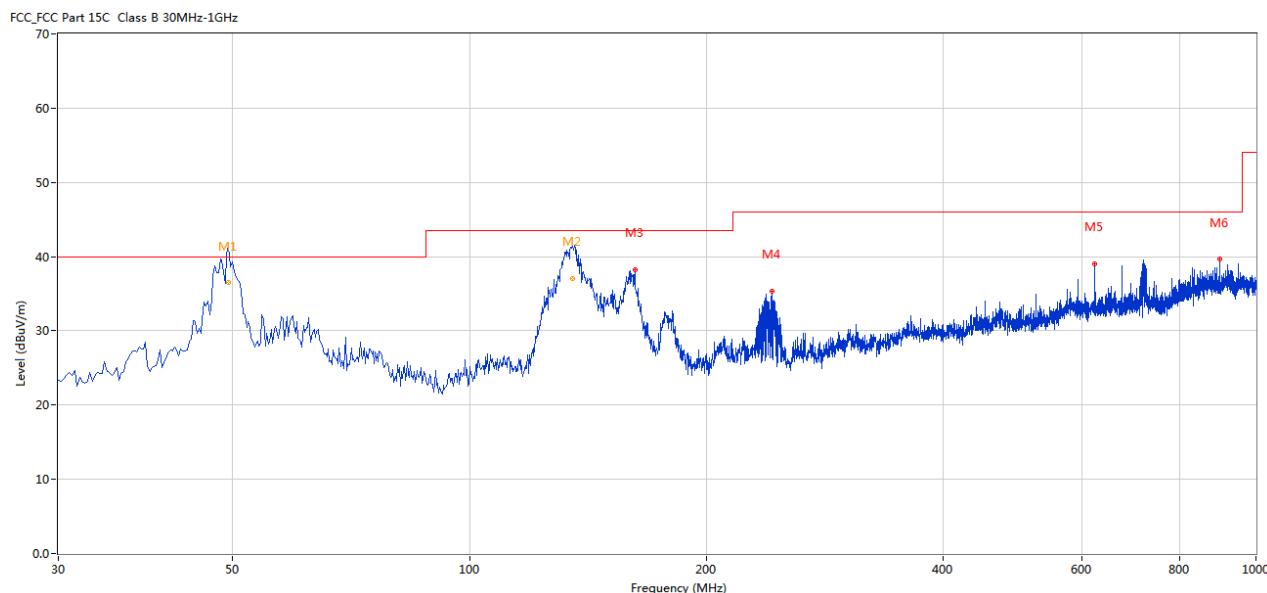
### Test result

### General Radiated Emission Data and Harmonics Radiated Emission Data

#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

**Results:** **Pass**



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1*  | 49.395          | 36.48            | -5.23       | 40.0           | 3.52        | QP       | 182.00         | 100         | Vertical | Pass    |
| 2*  | 135.219         | 37.08            | -9.64       | 43.5           | 6.42        | QP       | 241.00         | 100         | Vertical | Pass    |
| 3   | 162.372         | 38.25            | -9.72       | 43.5           | 5.25        | Peak     | 26.00          | 100         | Vertical | Pass    |
| 4   | 242.377         | 35.28            | -5.51       | 46.0           | 10.72       | Peak     | 135.00         | 100         | Vertical | Pass    |
| 5   | 623.977         | 39.00            | 1.40        | 46.0           | 7.00        | Peak     | 261.00         | 100         | Vertical | Pass    |
| 6   | 899.873         | 39.62            | 4.69        | 46.0           | 6.38        | Peak     | 51.00          | 100         | Vertical | Pass    |

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## 1.25M Bandwidth

### Operation Mode: Transmitting under 2405MHz

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4810            | 63.5 (PK) / 45.7 (AV)   | H                | 74(Peak)/ 54(AV)        |
| 4810            | 58.7 (PK) / 42.4 (AV)   | V                | 74(Peak)/ 54(AV)        |
| 7215            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9620            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12025           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14430           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 16835           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19240           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21645           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24050           | --                      | H/V              | 74(Peak)/ 54(AV)        |

### Operation Mode: Transmitting under 2440MHz

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4880            | 61.7 (PK)/ 44.6 (AV)    | H                | 74(Peak)/ 54(AV)        |
| 4880            | 57.6 (PK)/ 41.7 (AV)    | V                | 74(Peak)/ 54(AV)        |
| 7320            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9760            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12200           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14640           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17080           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19520           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21960           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24400           | --                      | H/V              | 74(Peak)/ 54(AV)        |

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**Operation Mode: Transmitting under 2480MHz**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4960            | 62.1 (PK)/ 44.9 (AV)    | H                | 74(Peak)/ 54(AV)        |
| 4960            | 57.9 (PK)/ 41.5 (AV)    | V                | 74(Peak)/ 54(AV)        |
| 7440            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9920            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12400           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14880           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17360           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19840           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 22320           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24800           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark “--” means that the emissions level is too low to be measured  
3. 10M Bandwidth is the worst case  
4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.  
5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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## 10M Bandwidth

### Operation Mode: Transmitting under 2410MHz

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4820            | 60.8 (PK) / 42.3 (AV)   | H                | 74(Peak)/ 54(AV)        |
| 4820            | 55.6 (PK) / 39.5 (AV)   | V                | 74(Peak)/ 54(AV)        |
| 7230            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9640            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12050           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14460           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 16870           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19280           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21690           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24100           | --                      | H/V              | 74(Peak)/ 54(AV)        |

### Operation Mode: Transmitting under 2440MHz

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4880            | 58.8 (PK)/ 41.4 (AV)    | H                | 74(Peak)/ 54(AV)        |
| 4880            | 54.9 (PK)/ 38.5 (AV)    | V                | 74(Peak)/ 54(AV)        |
| 7320            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9760            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12200           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14640           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17080           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19520           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21960           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24400           | --                      | H/V              | 74(Peak)/ 54(AV)        |

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**Operation Mode: Transmitting under 2470MHz**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4940            | 59.2 (PK)/ 42.3 (AV)    | H                | 74(Peak)/ 54(AV)        |
| 4940            | 55.1 (PK)/ 38.8 (AV)    | V                | 74(Peak)/ 54(AV)        |
| 7410            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9880            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12350           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14820           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17290           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19760           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 22230           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24700           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark “--” means that the emissions level is too low to be measured  
3. 10M Bandwidth is the worst case  
4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.  
5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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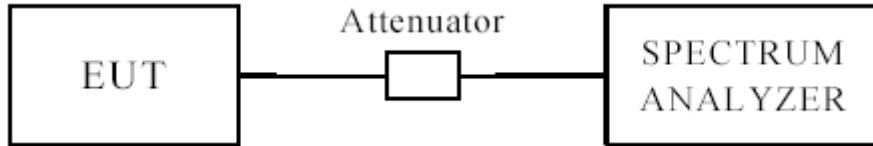
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## 8.0 6dB Bandwidth Measurement

### 8.1 Test Setup



### 8.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 8.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 8.4 Test Result

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### 6dB Occupied Bandwidth

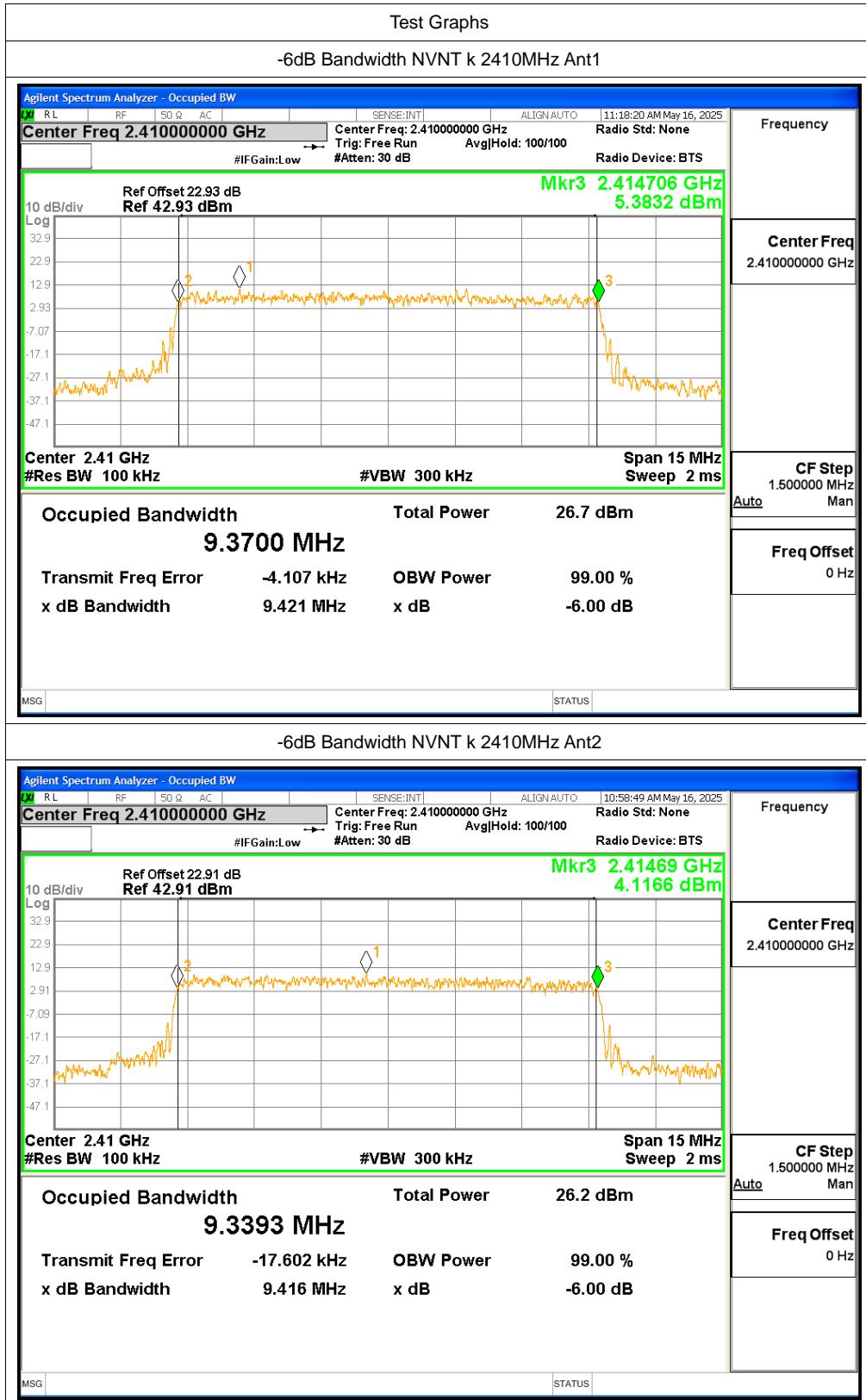
#### 10M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | k    | 2410            | Ant1    | 9.421                 | 0.5                         | Pass    |
|           |      |                 | Ant2    | 9.416                 | 0.5                         | Pass    |
|           |      | 2440            | Ant1    | 9.351                 | 0.5                         | Pass    |
|           |      |                 | Ant2    | 9.382                 | 0.5                         | Pass    |
|           |      | 2470            | Ant1    | 9.447                 | 0.5                         | Pass    |
|           |      |                 | Ant2    | 9.351                 | 0.5                         | Pass    |

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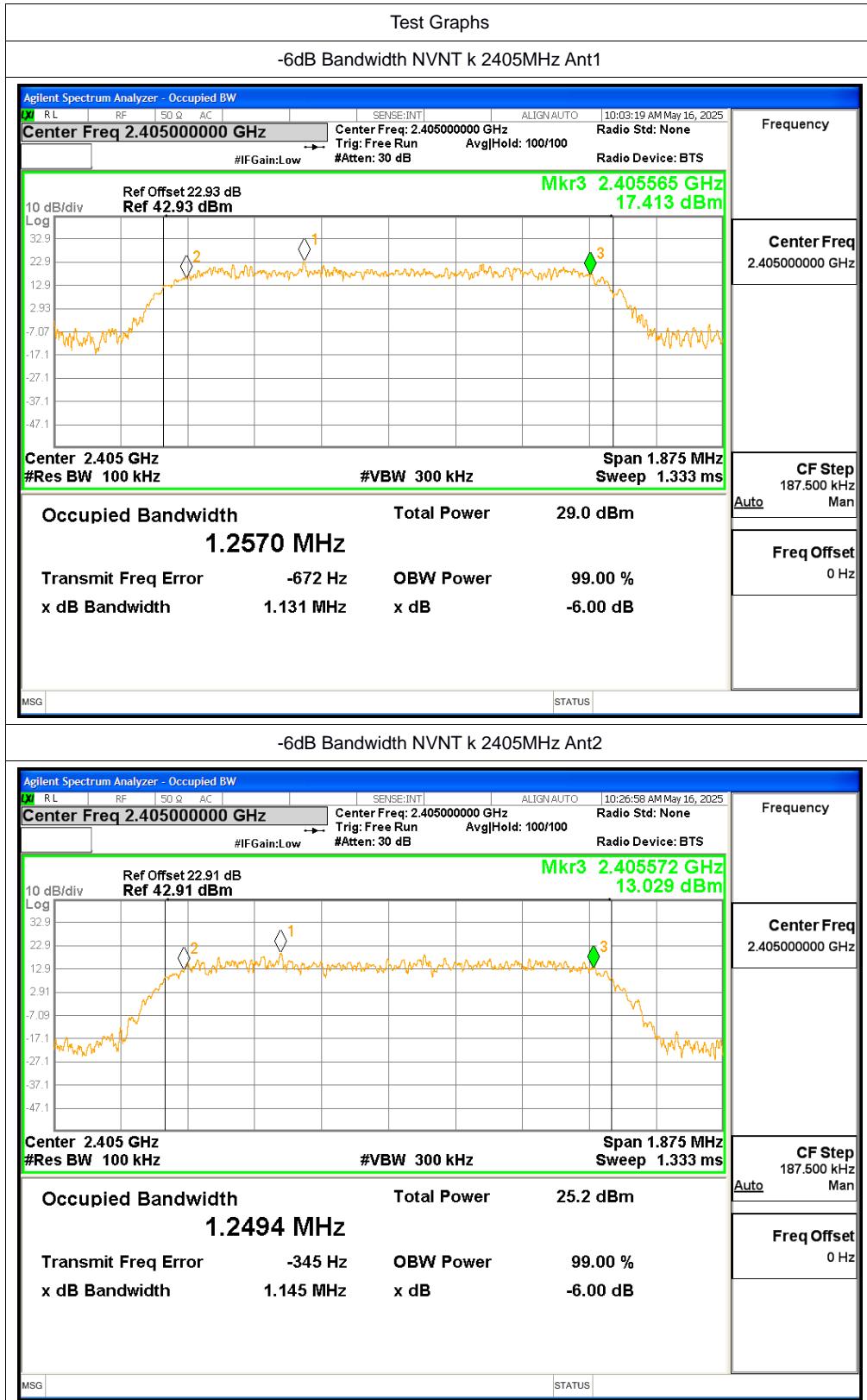
### 1.25M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | k    | 2405            | Ant1    | 1.131                 | 0.5                         | Pass    |
|           |      |                 | Ant2    | 1.145                 | 0.5                         | Pass    |
|           |      | 2440            | Ant1    | 1.221                 | 0.5                         | Pass    |
|           |      |                 | Ant2    | 1.193                 | 0.5                         | Pass    |
|           |      | 2480            | Ant1    | 1.221                 | 0.5                         | Pass    |
|           |      |                 | Ant2    | 1.166                 | 0.5                         | Pass    |

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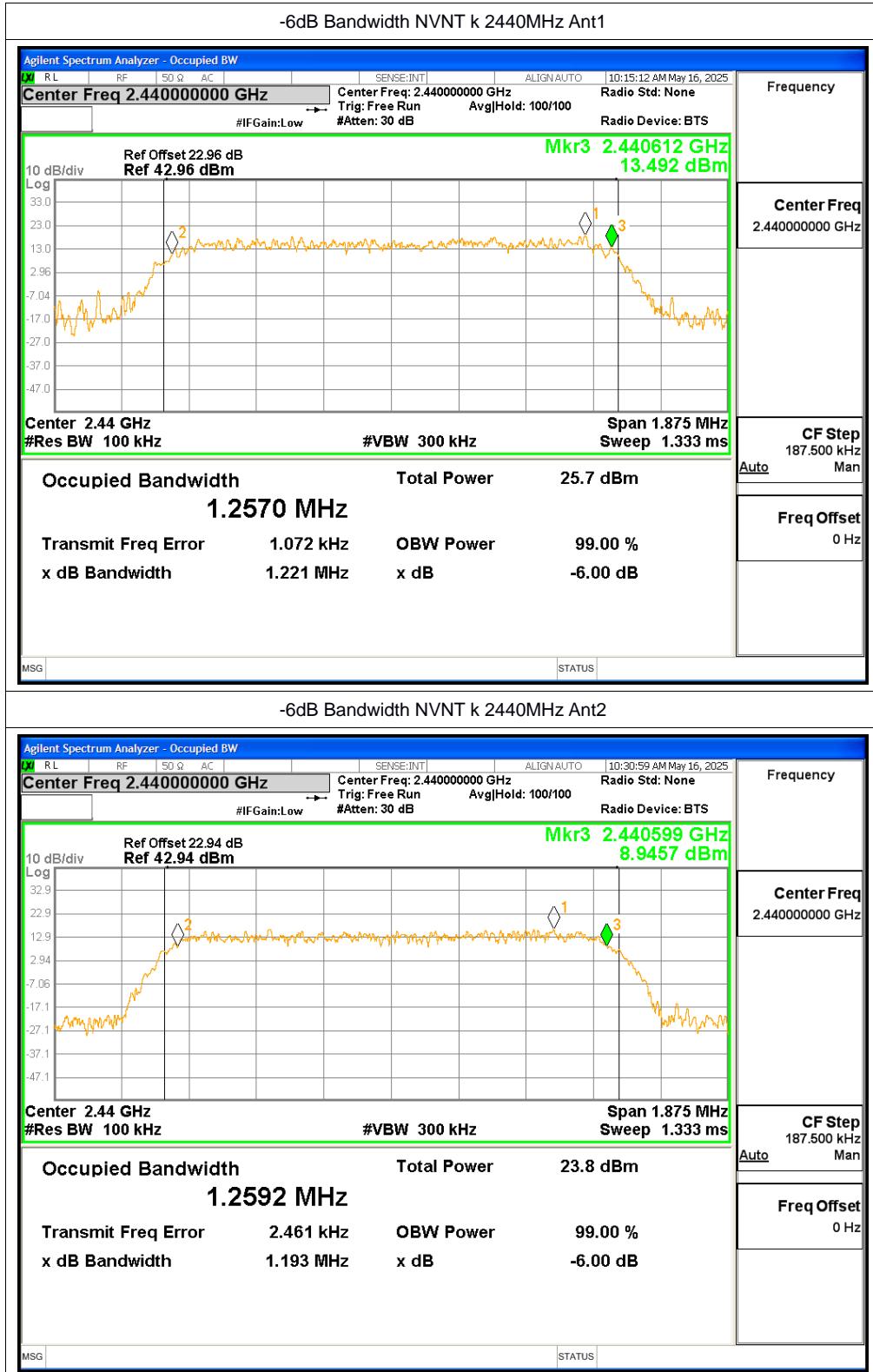
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## 9. Maximum Output Power

### 9.1 Test Setup



### 9.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### 9.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

**Note: The PK power was measured**

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## 9.4 Test Results

### MISO Mode

#### 10M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | k    | 2410            | Ant1    | 21.85                 | 0                | 21.85             | 30          | Pass    |
|           |      |                 | Ant2    | 21.84                 | 0                | 21.84             | 30          | Pass    |
|           |      | 2440            | Ant1    | 23.65                 | 0                | 23.65             | 30          | Pass    |
|           |      |                 | Ant2    | 23.89                 | 0                | 23.89             | 30          | Pass    |
|           |      | 2470            | Ant1    | 23.88                 | 0                | 23.88             | 30          | Pass    |
|           |      |                 | Ant2    | 24.46                 | 0                | 24.46             | 30          | Pass    |

#### 1.25M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | k    | 2405            | Ant1    | 20.32                 | 0                | 20.32             | 30          | Pass    |
|           |      |                 | Ant2    | 21.16                 | 0                | 21.16             | 30          | Pass    |
|           |      | 2440            | Ant1    | 22.19                 | 0                | 22.19             | 30          | Pass    |
|           |      |                 | Ant2    | 21.13                 | 0                | 21.13             | 30          | Pass    |
|           |      | 2480            | Ant1    | 22.03                 | 0                | 22.03             | 30          | Pass    |
|           |      |                 | Ant2    | 21.96                 | 0                | 21.96             | 30          | Pass    |

Note: 1. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

2. The worst case was recorded

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### MIMO Mode

| EUT             | HD525 Agricultural Drone |        |             |        | Model                                  | 3WWWDZ-U25A       |            |
|-----------------|--------------------------|--------|-------------|--------|--|-------------------|------------|
| Mode            | 10M Bandwidth            |        |             |        | Test Voltage                           | DC67.5V           |            |
| Temperature     | 24 deg. C,               |        |             |        | Humidity                               | 56% RH            |            |
| Frequency (MHz) | Ant 1 Power              |        | Ant 2 Power |        | Total Max. Power Output<br>-MIMO (dBm) | Power Limit (dBm) | Pass/ Fail |
|                 | dBm                      | mW     | dBm         | mW     |  |                   |            |
| 2410            | 21.85                    | 153.11 | 21.84       | 152.76 | 24.86                                  | 29.65             | Pass       |
| 2440            | 23.65                    | 231.74 | 23.89       | 244.91 | 26.78                                  | 29.65             | Pass       |
| 2470            | 23.88                    | 244.34 | 24.46       | 279.25 | 27.19                                  | 29.65             | Pass       |

Note: 1. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worst case was recorded

3. Assembly Directional Gain=3.34+3.01=6.35dBi

4. Limit=30-(6-6.35) =29.65dBm)

| EUT             | HD525 Agricultural Drone |        |             |        | Model                                 | 3WWWDZ-U25A       |            |
|-----------------|--------------------------|--------|-------------|--------|---------------------------------------|-------------------|------------|
| Mode            | 1.25M Bandwidth          |        |             |        | Test Voltage                          | DC67.5V           |            |
| Temperature     | 24 deg. C,               |        |             |        | Humidity                              | 56% RH            |            |
| Frequency (MHz) | Ant 1 Power              |        | Ant 2 Power |        | Total Max. Power Output-MIMO<br>(dBm) | Power Limit (dBm) | Pass/ Fail |
|                 | dBm                      | mW     | dBm         | mW     |                                       |                   |            |
| 2405            | 20.32                    | 107.65 | 21.16       | 130.62 | 23.77                                 | 29.65             | Pass       |
| 2440            | 22.19                    | 165.58 | 21.13       | 129.72 | 24.70                                 | 29.65             | Pass       |
| 2480            | 22.03                    | 159.59 | 21.96       | 157.04 | 25.01                                 | 29.65             | Pass       |

Note: 1. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worst case was recorded

3. Assembly Directional Gain=3.34+3.01=6.35dBi

4. Limit=30-(6-6.35) =29.65dBm)

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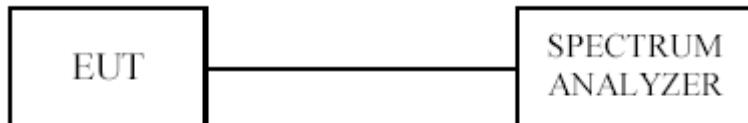
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## 10. Power Spectral Density Measurement

### 10.1 Test Setup



### 10.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 10.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz
3. Set the VBW  $\geq$  10 kHz
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be  $\leq$  8 dBm/3kHz.

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## 10.4 Test Result

### 10M Bandwidth

#### MISO Mode

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | k    | 2410            | Ant1    | -4.52                    | 0                | -4.52                | 8                | Pass    |
|           |      |                 | Ant2    | -3.18                    | 0                | -3.18                | 8                | Pass    |
|           |      | 2440            | Ant1    | -2.68                    | 0                | -2.68                | 8                | Pass    |
|           |      |                 | Ant2    | -2.58                    | 0                | -2.58                | 8                | Pass    |
|           |      | 2470            | Ant1    | -2.87                    | 0                | -2.87                | 8                | Pass    |
|           |      |                 | Ant2    | -3.35                    | 0                | -3.35                | 8                | Pass    |

#### MIMO Mode

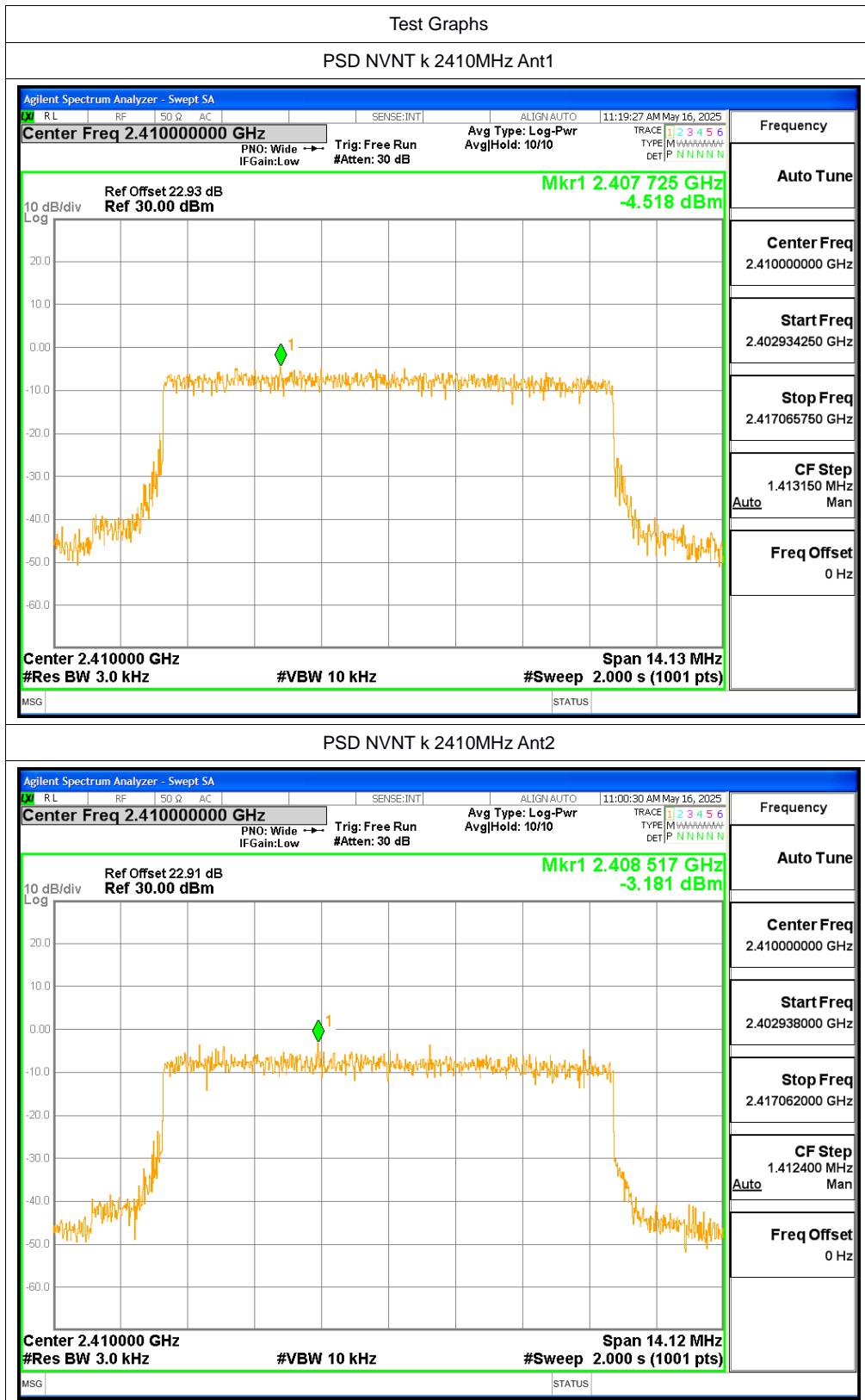
|                 |                          |           |  |                      |            |
|-----------------|--------------------------|-----------|--|----------------------|------------|
| EUT             | HD525 Agricultural Drone |           | Model                                    | 3WWWDZ-U25A          |            |
| Mode            | 10M Bandwidth            |           | Test Voltage                             | DC67.5V              |            |
| Temperature     | 24 deg. C,               |           | Humidity                                 | 56% RH               |            |
| Frequency (MHz) | Ant 1 PSD                | Ant 2 PSD | Total Max. Power PSD<br>-MIMO (dBm/3kHz) | PSD Limit (dBm/3kHz) | Pass/ Fail |
|                 | dBm/3kHz                 | dBm/3kHz  |  |                      |            |
| 2410            | -1.78                    | -2.08     | 1.08                                     | 7.65                 | Pass       |
| 2440            | -0.26                    | -1.67     | 2.10                                     | 7.65                 | Pass       |
| 2470            | -2.66                    | -1.02     | 1.25                                     | 7.65                 | Pass       |

**Note:** PSD Limit=8-(6-6.35) =7.65dBm

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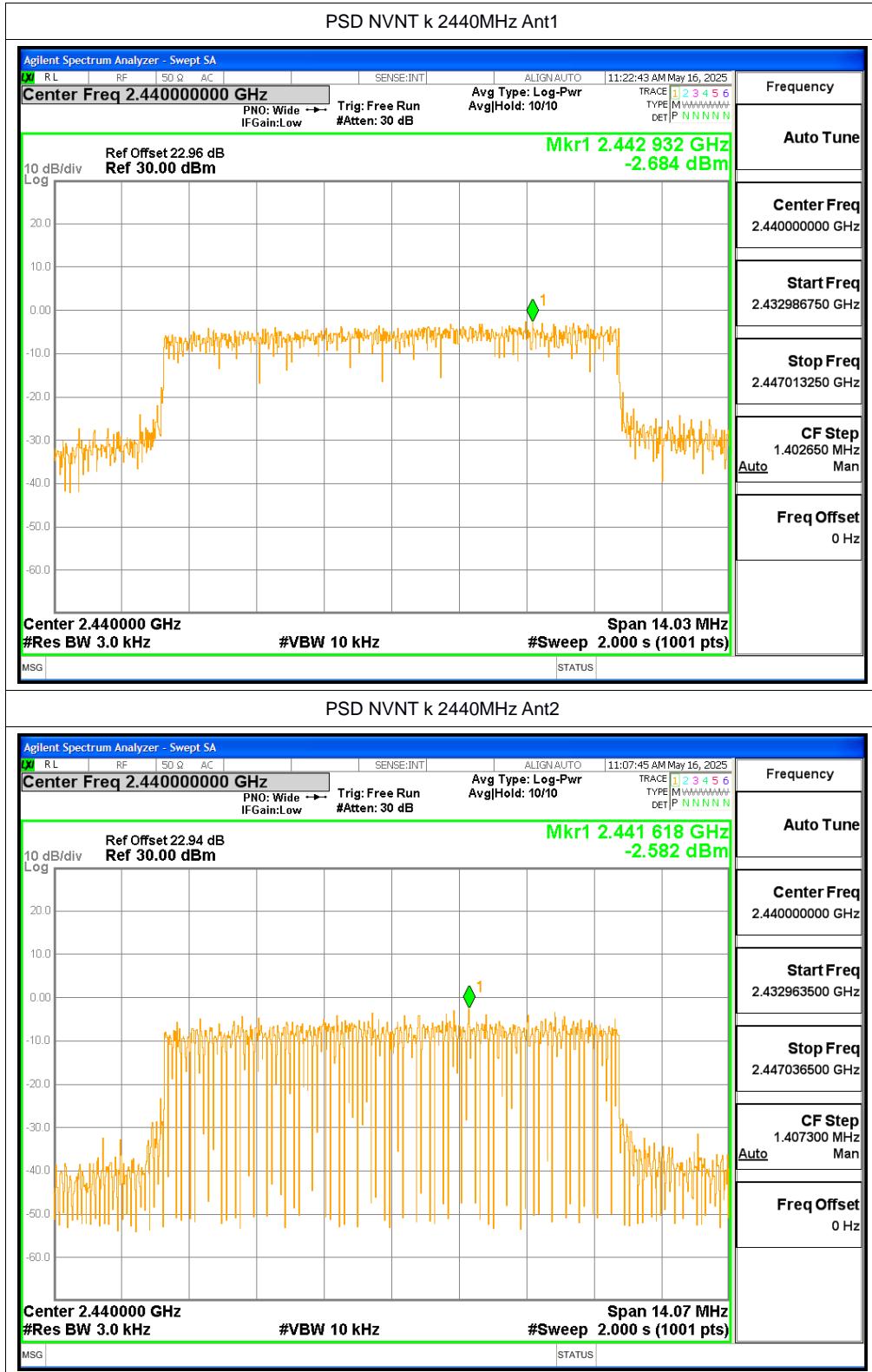
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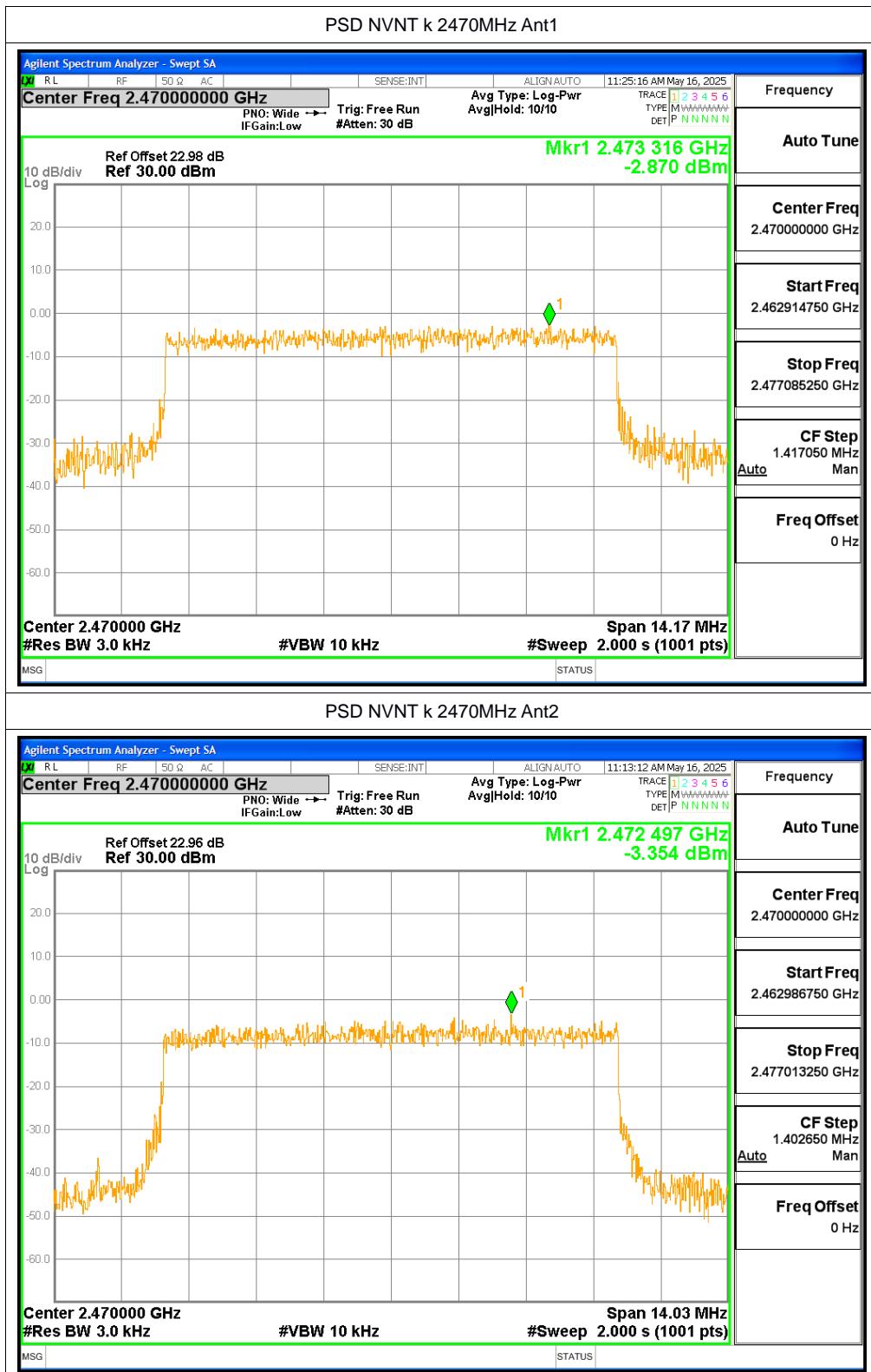
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### 1.25M Bandwidth

#### MISO Mode

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | k    | 2405            | Ant1    | 3.39                     | 0                | 3.39                 | 8                | Pass    |
|           |      |                 | Ant2    | 4.18                     | 0                | 4.18                 | 8                | Pass    |
|           |      | 2440            | Ant1    | 3.59                     | 0                | 3.59                 | 8                | Pass    |
|           |      |                 | Ant2    | 3.29                     | 0                | 3.29                 | 8                | Pass    |
|           |      | 2480            | Ant1    | 4.18                     | 0                | 4.18                 | 8                | Pass    |
|           |      |                 | Ant2    | 2.49                     | 0                | 2.49                 | 8                | Pass    |

#### MIMO Mode

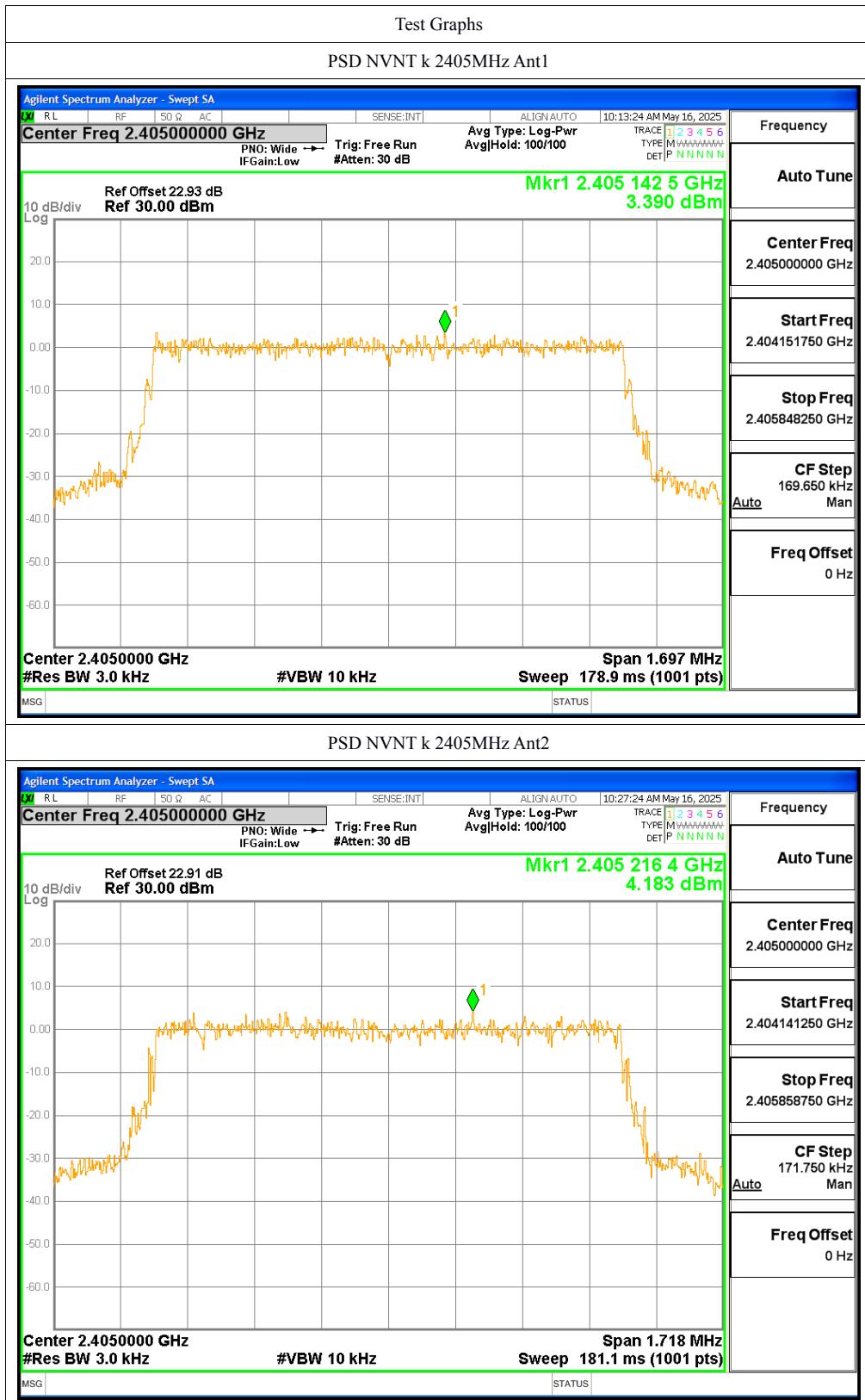
|                 |                          |           |  |                      |            |
|-----------------|--------------------------|-----------|--|----------------------|------------|
| EUT             | HD525 Agricultural Drone |           | Model                                    | 3WWWDZ-U25A          |            |
| Mode            | 1.25M Bandwidth          |           | Test Voltage                             | DC67.5V              |            |
| Temperature     | 24 deg. C,               |           | Humidity                                 | 56% RH               |            |
| Frequency (MHz) | Ant 1 PSD                | Ant 2 PSD | Total Max. Power PSD<br>-MIMO (dBm/3kHz) | PSD Limit (dBm/3kHz) | Pass/ Fail |
|                 | dBm/3kHz                 | dBm/3kHz  |  |                      |            |
| 2405            | 3.39                     | 4.18      | 6.81                                     | 7.65                 | Pass       |
| 2440            | 3.59                     | 3.29      | 6.45                                     | 7.65                 | Pass       |
| 2480            | 4.18                     | 2.49      | 6.43                                     | 7.65                 | Pass       |

**Note:** PSD Limit=8-(6-6.35) =7.65dBm

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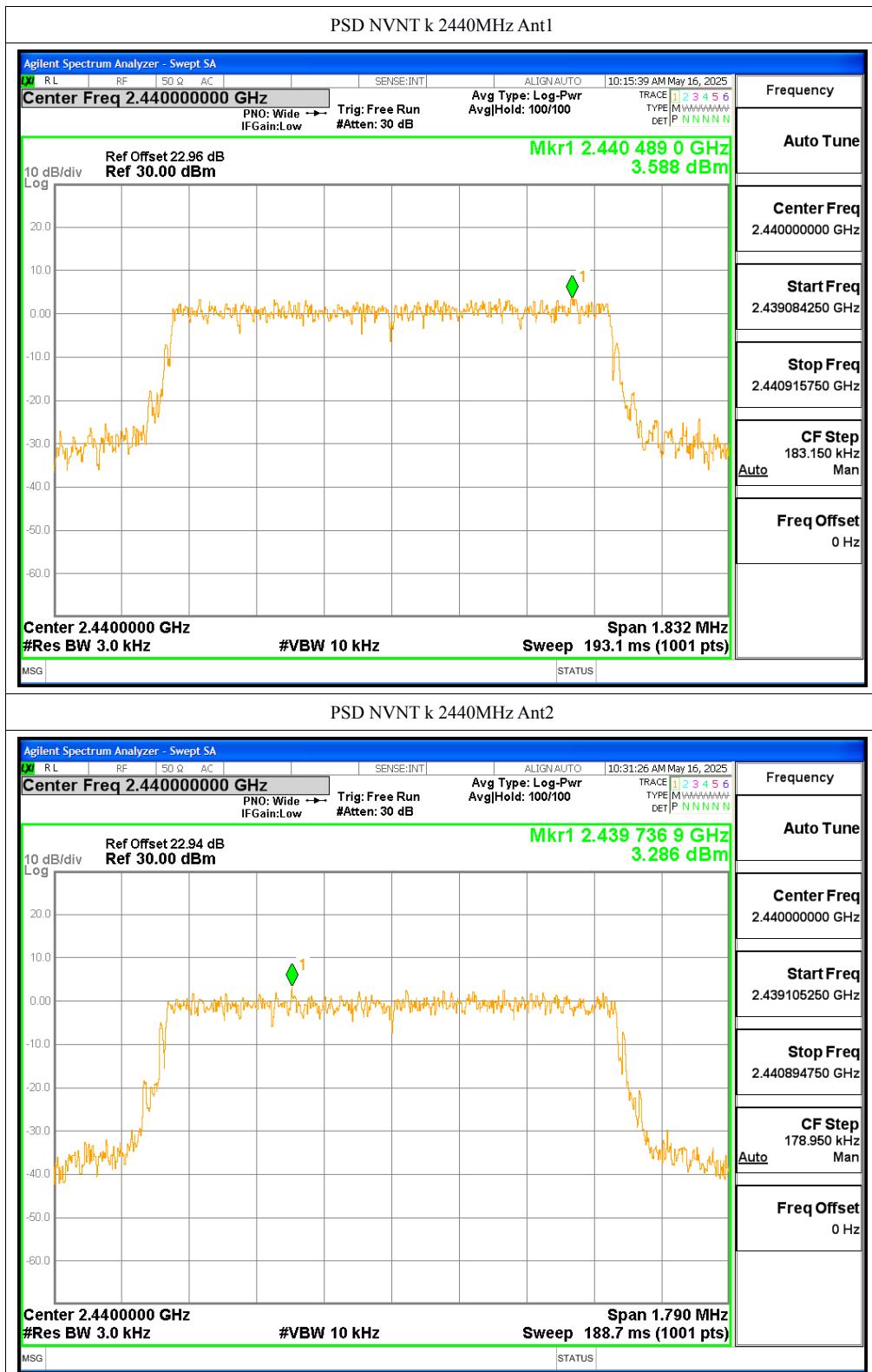
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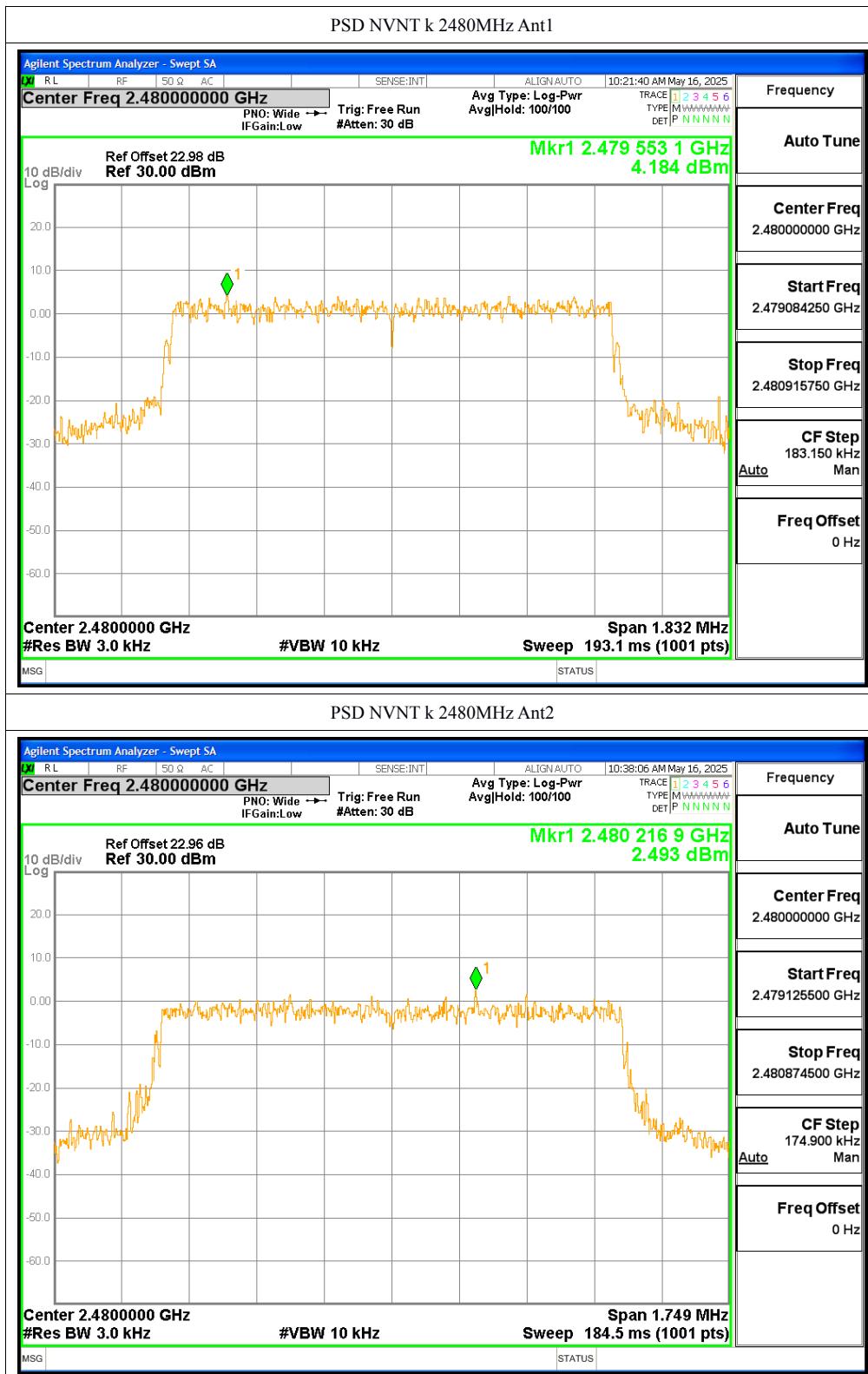
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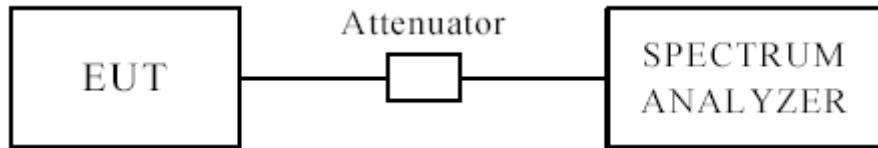
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## 11 Out of Band Measurement

### 11.1 Test Setup for band edge



**The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup**

### 11.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in  $100\text{kHz}$  Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 11.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with  $\text{RBW}=\text{VBW}=1\text{MHz}$  and PK detector. AV value with  $\text{RBW}=1\text{MHz}$ ,  $\text{VBW} \geq 1/\text{T}$  and PK detector)

For bandage test, the spectrum set as follows:  $\text{RBW}=100$ ,  $\text{VBW}=300\text{ kHz}$ . A conducted measurement used

### 11.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.  
2. Ant 1 and Ant 2 transmitting Simultaneously

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## Band Edge

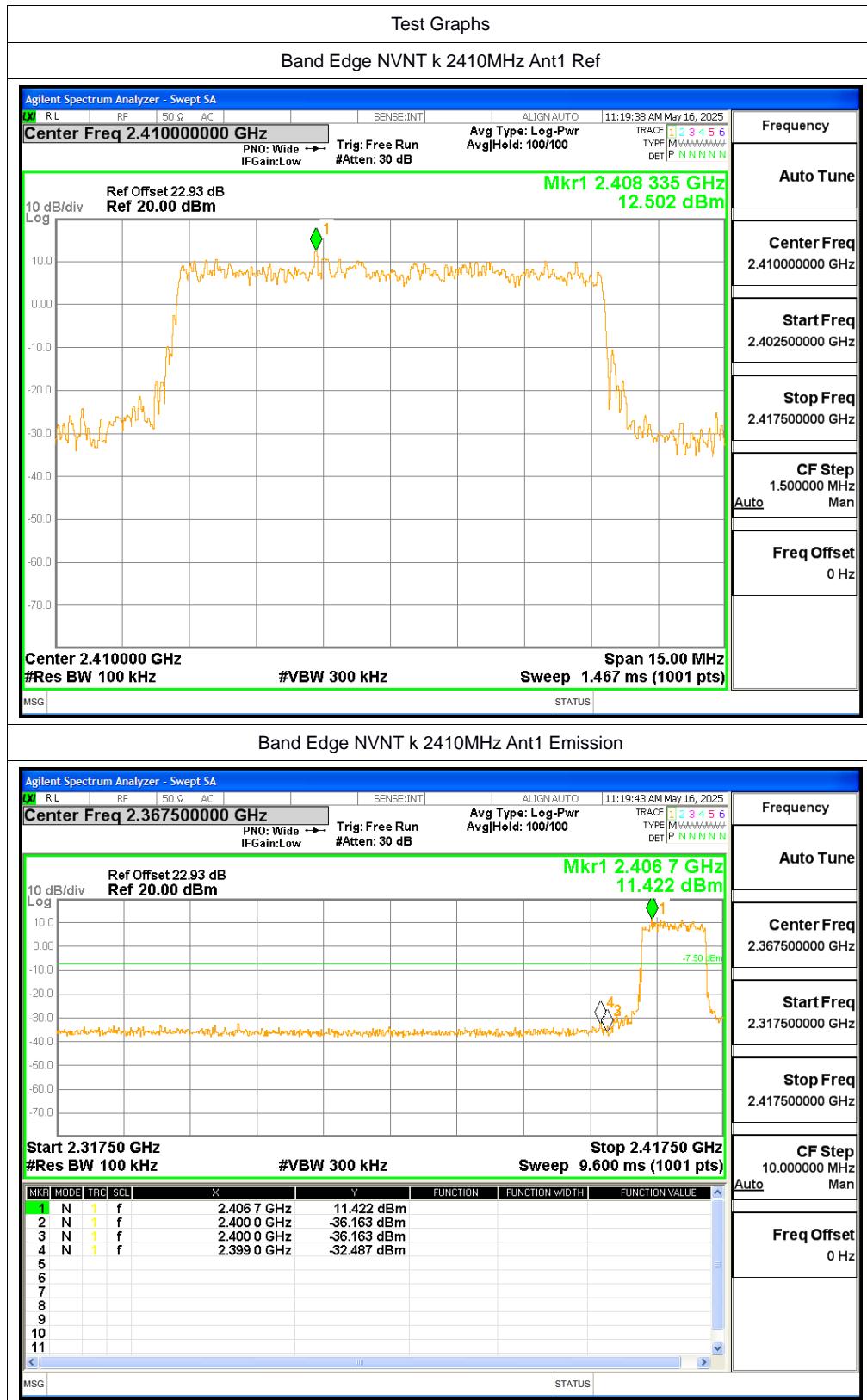
### 10M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | k    | 2410            | Ant1    | -44.98          | -20         | Pass    |
|           |      |                 | Ant2    | -40.04          | -20         | Pass    |
|           | 2470 | Ant1            | -44.77  | -20             | Pass        |         |
|           |      |                 | Ant2    | -43.16          | -20         | Pass    |

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### 1.25M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | k    | 2405            | Ant1    | -51.66          | -20         | Pass    |
|           |      |                 | Ant2    | -50.49          | -20         | Pass    |
|           | 2480 | Ant1            | -49.12  | -20             | Pass        |         |
|           |      |                 | Ant2    | -46.55          | -20         | Pass    |

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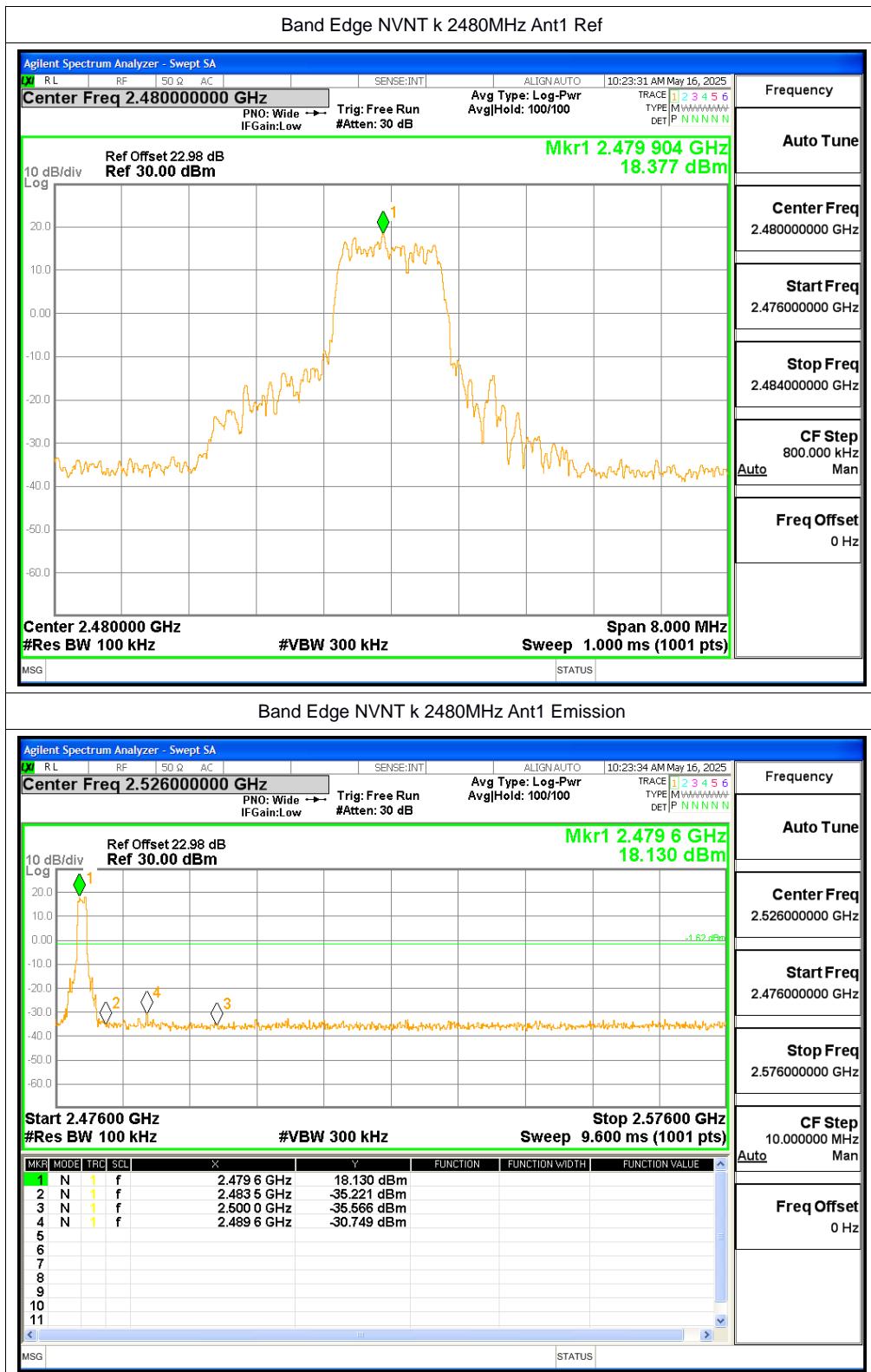
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## Conducted RF Spurious Emission

### 10M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | k    | 2410            | Ant1    | -25.48          | -20         | Pass    |
|           |      |                 | Ant2    | -25.03          | -20         | Pass    |
|           |      | 2440            | Ant1    | -28.58          | -20         | Pass    |
|           |      |                 | Ant2    | -27.12          | -20         | Pass    |
|           |      | 2470            | Ant1    | -26             | -20         | Pass    |
|           |      |                 | Ant2    | -25.66          | -20         | Pass    |

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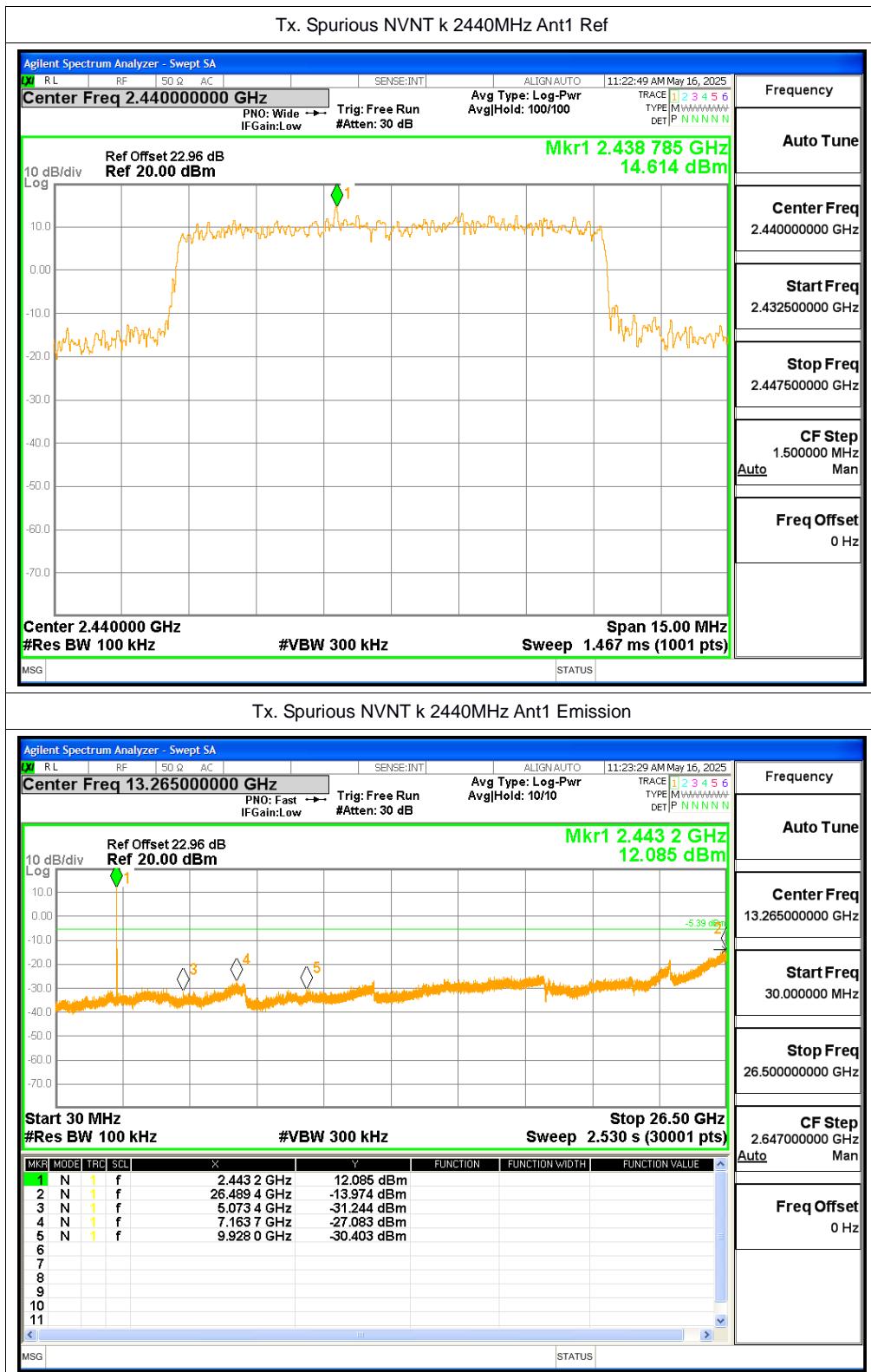
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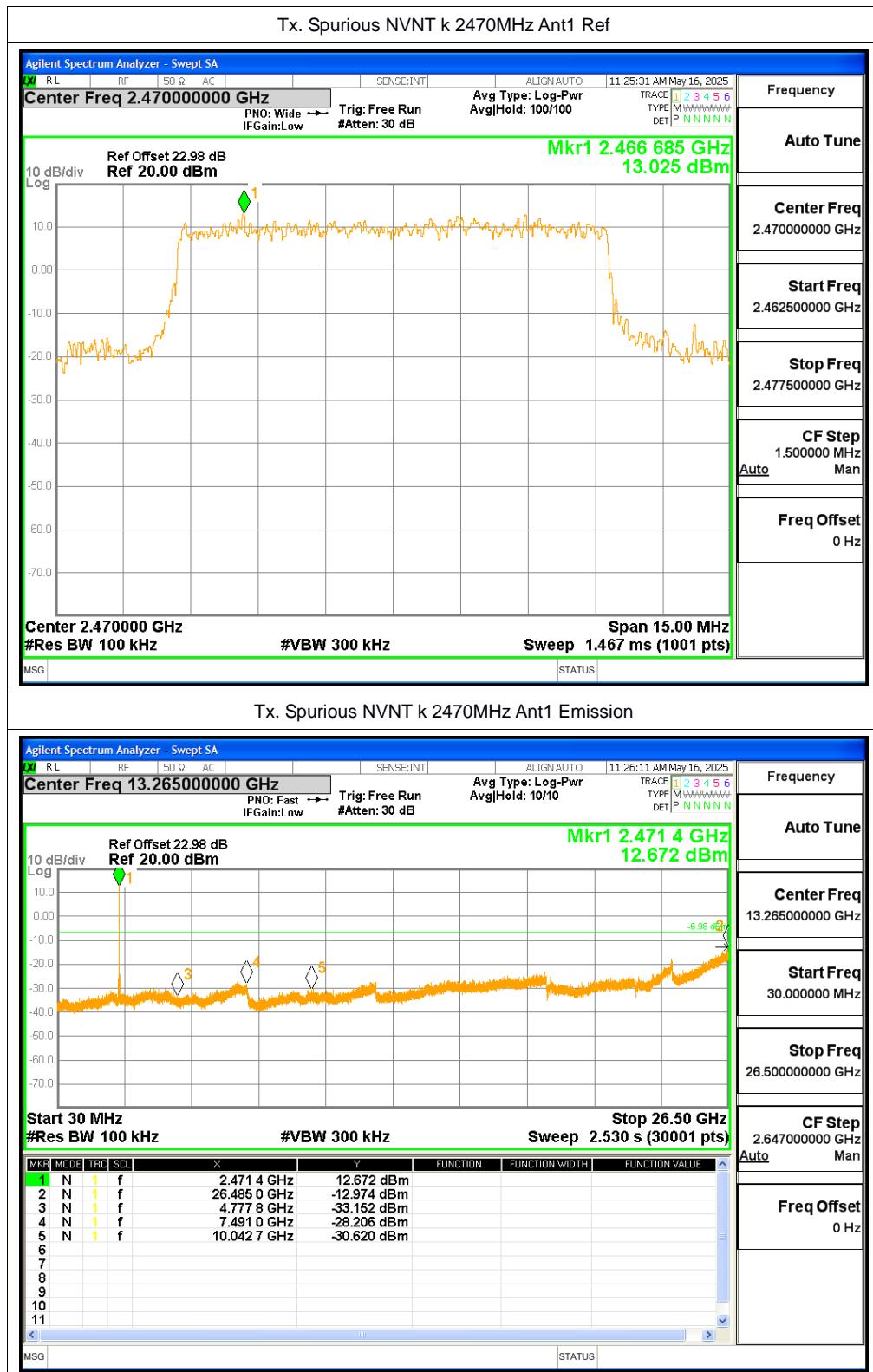
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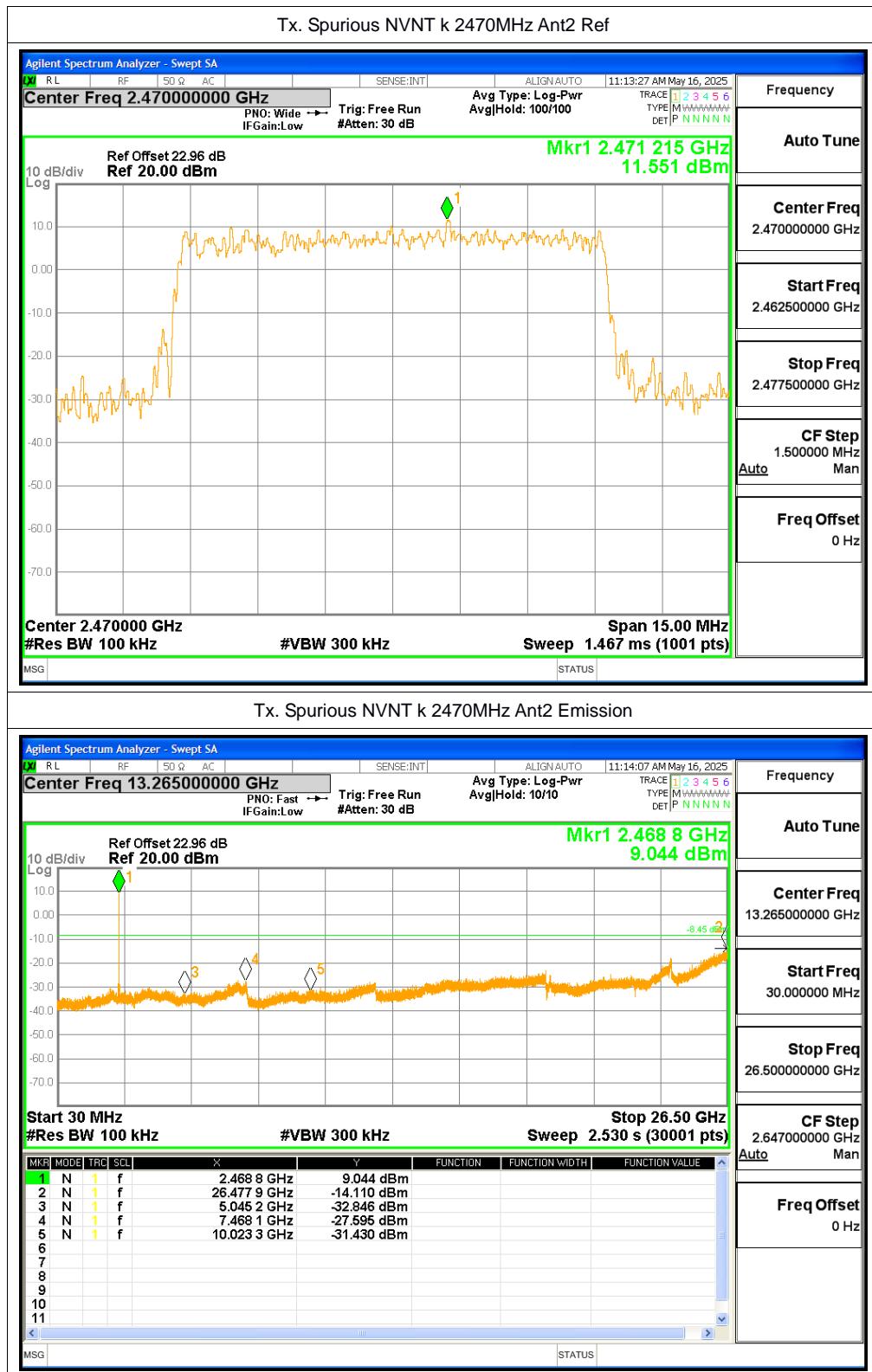
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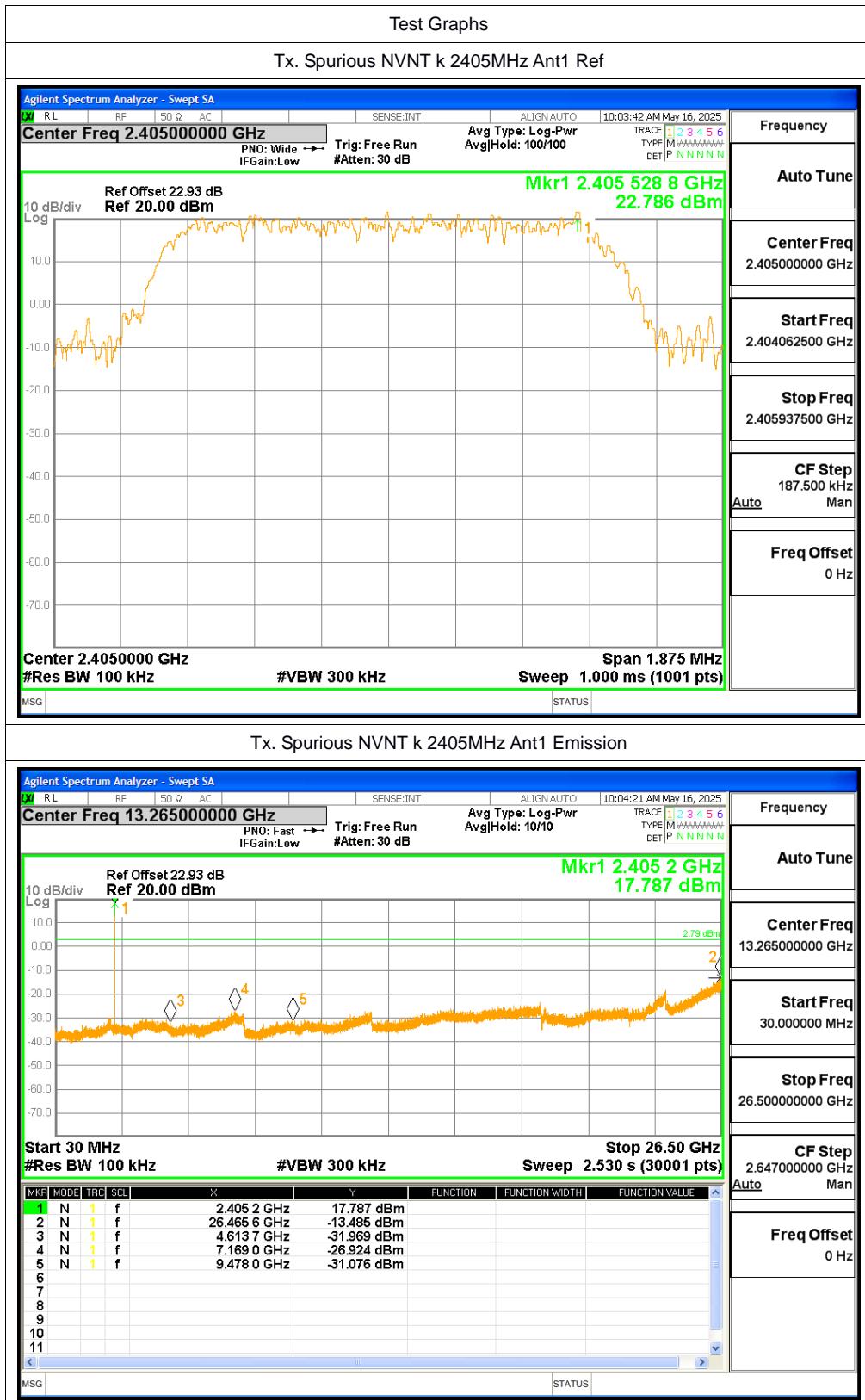
### 1.25M Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | k    | 2405            | Ant1    | -36.27          | -20         | Pass    |
|           |      |                 | Ant2    | -31.81          | -20         | Pass    |
|           |      | 2440            | Ant1    | -32.24          | -20         | Pass    |
|           |      |                 | Ant2    | -32.47          | -20         | Pass    |
|           |      | 2480            | Ant1    | -34.47          | -20         | Pass    |
|           |      |                 | Ant2    | -30.4           | -20         | Pass    |

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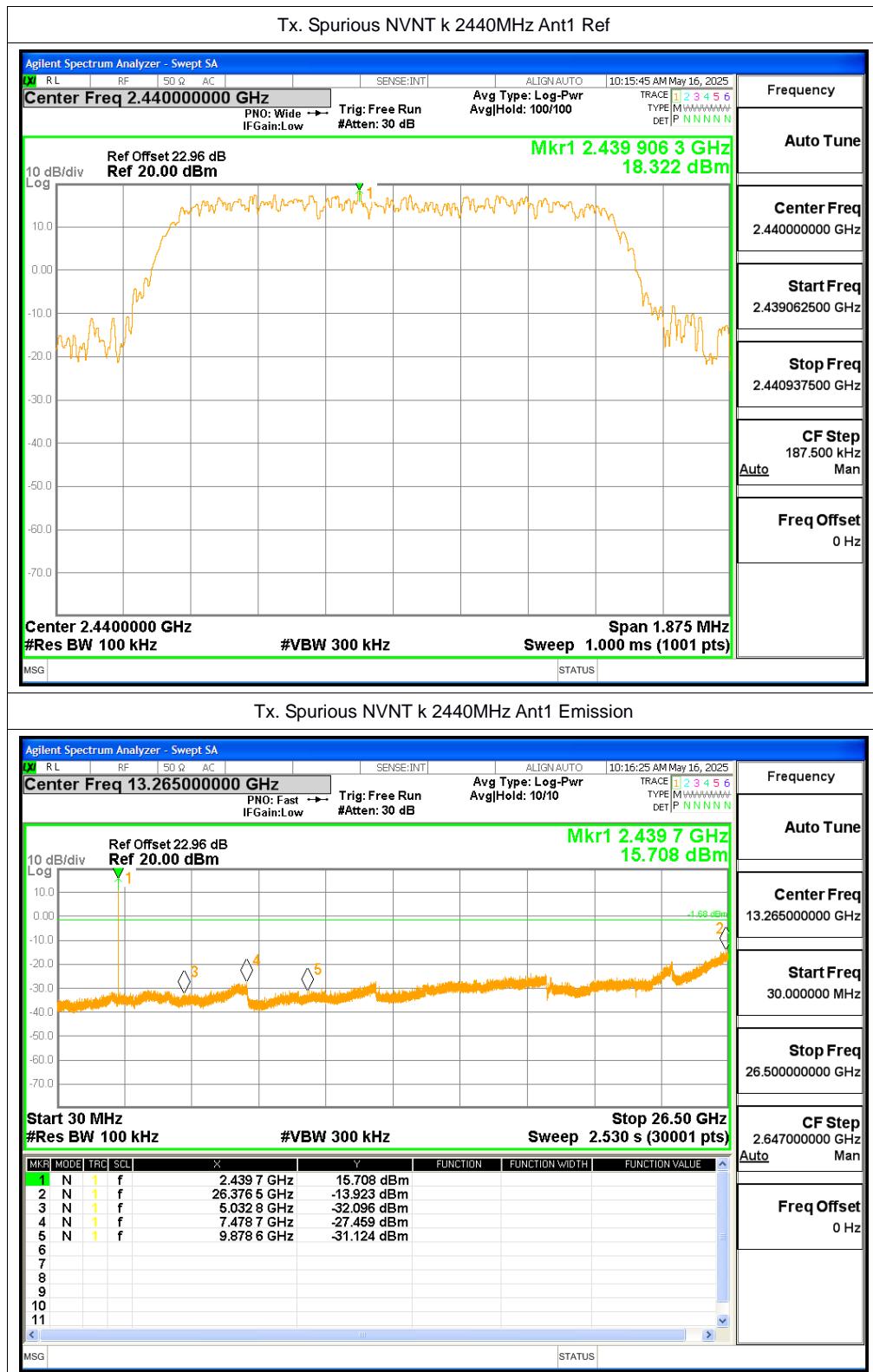
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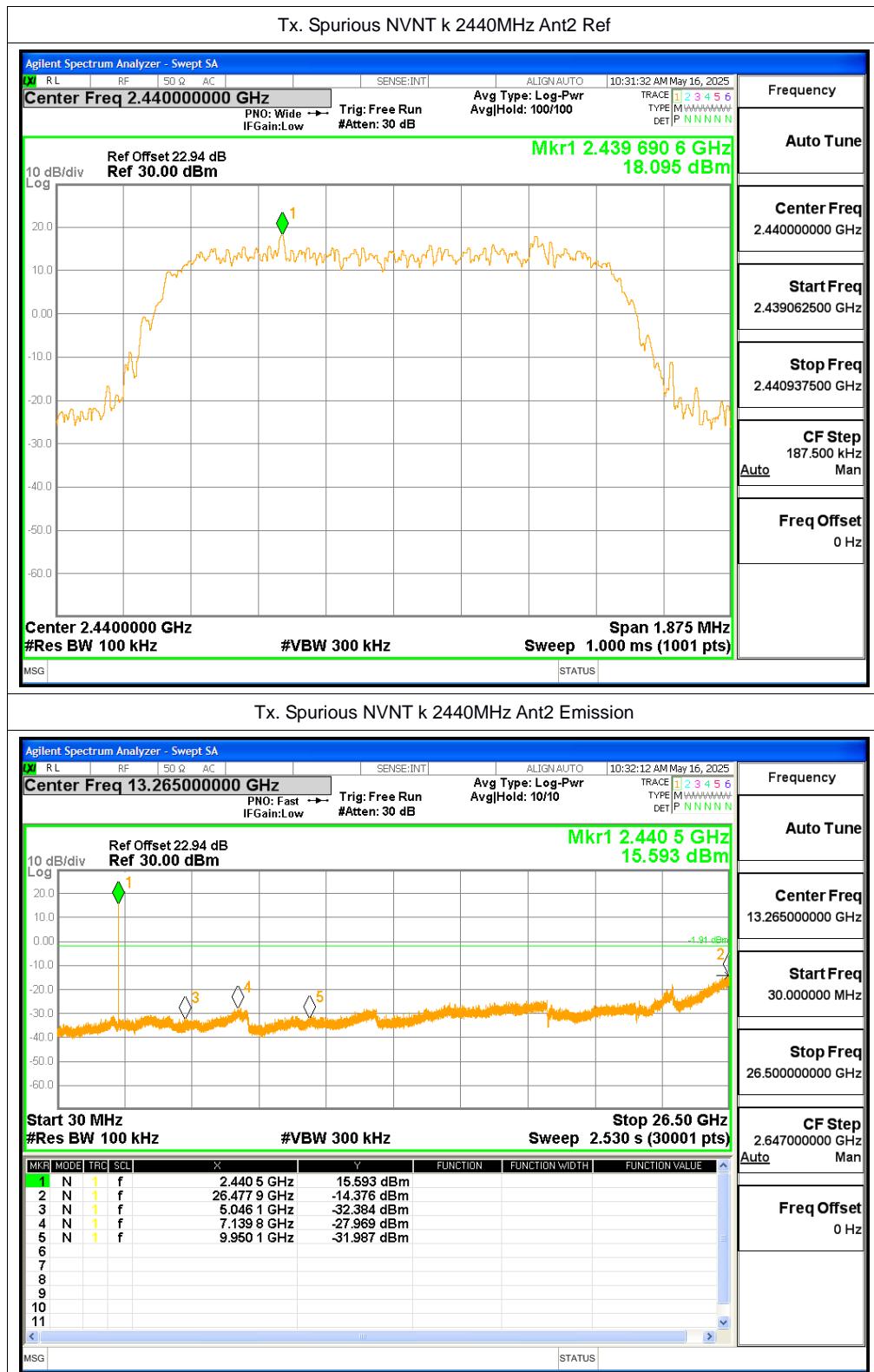
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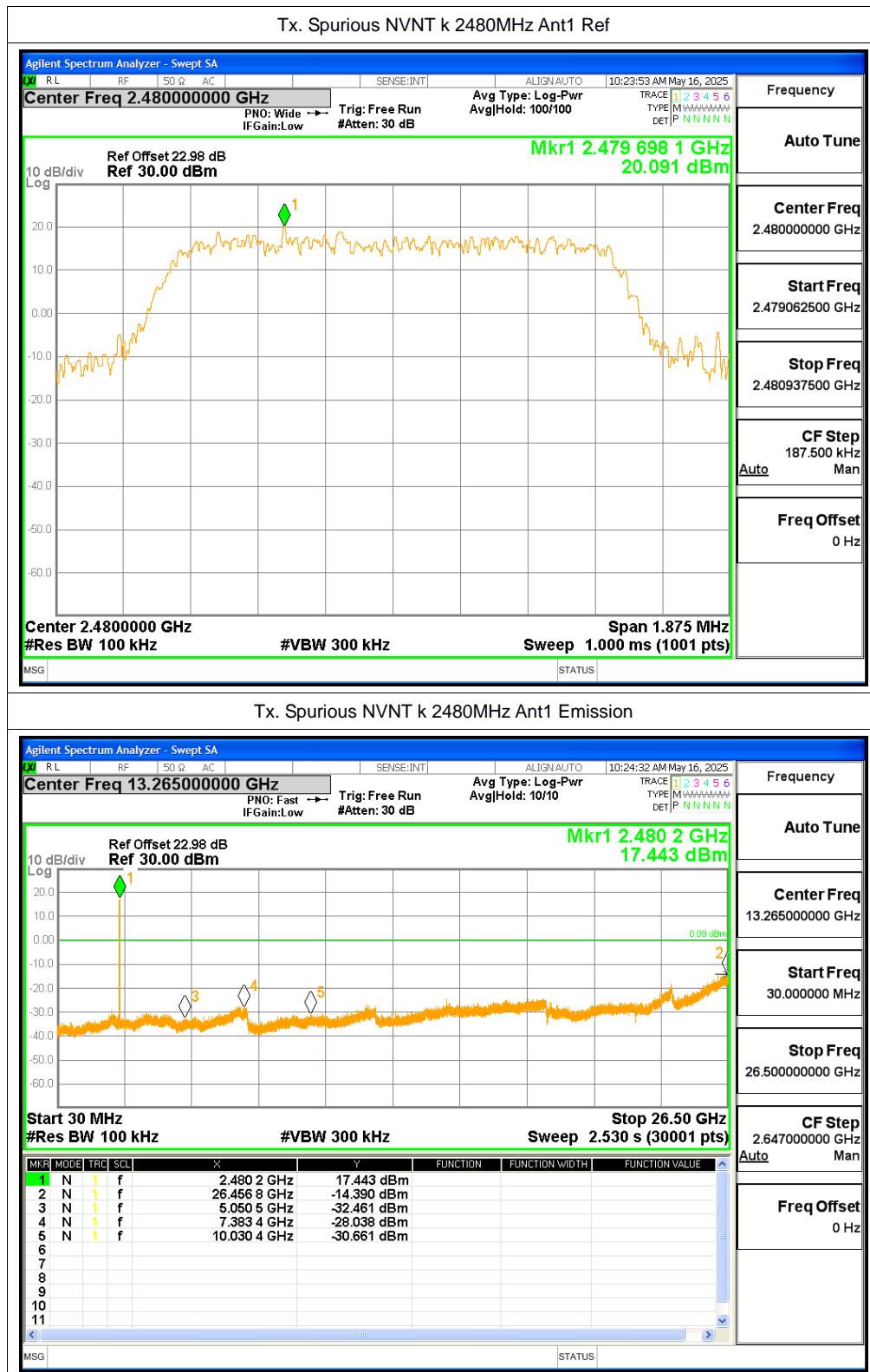
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### 10.5 Restricted band Measurement

|  |                          |       |       |                  |            |
|--|--------------------------|-------|-------|------------------|------------|
| EUT                                    | HD525 Agricultural Drone |       |       | Model            | 3WWDZ-U25A |
| Mode                                   | Keeping Transmitting     |       |       | Test Voltage     | DC67.5V    |
| Temperature                            | 24 deg. C,               |       |       | Humidity         | 56% RH     |
| Test Result:                           | Pass                     |       |       | Detector         | PK         |
| 10M Bandwidth, Low Channel, Horizontal |                          |       |       |                  |            |
| 2390                                   | PK (dB $\mu$ V/m)        | 48.36 | Limit | 74(dB $\mu$ V/m) |            |
|  | AV (dB $\mu$ V/m)        | --    |       | 54(dB $\mu$ V/m) |            |
| 10M Bandwidth, Low Channel, Vertical   |                          |       |       |                  |            |
| 2390                                   | PK (dB $\mu$ V/m)        | 43.60 | Limit | 74(dB $\mu$ V/m) |            |
|  | AV (dB $\mu$ V/m)        | --    |       | 54(dB $\mu$ V/m) |            |

### 10.5 Restricted band Measurement

|   |                          |       |       |                  |            |
|---|--------------------------|-------|-------|------------------|------------|
| EUT                                     | HD525 Agricultural Drone |       |       | Model            | 3WWDZ-U25A |
| Mode                                    | Keeping Transmitting     |       |       | Test Voltage     | DC67.5V    |
| Temperature                             | 24 deg. C,               |       |       | Humidity         | 56% RH     |
| Test Result:                            | Pass                     |       |       | Detector         | PK         |
| 10M Bandwidth, High Channel, Horizontal |                          |       |       |                  |            |
| 2483.5                                  | PK (dB $\mu$ V/m)        | 65.10 | Limit | 74(dB $\mu$ V/m) |            |
|   | AV (dB $\mu$ V/m)        | 49.04 |       | 54(dB $\mu$ V/m) |            |
| 10M Bandwidth, High Channel, Vertical   |                          |       |       |                  |            |
| 2483.5                                  | PK (dB $\mu$ V/m)        | 60.25 | Limit | 74(dB $\mu$ V/m) |            |
|   | AV (dB $\mu$ V/m)        | 45.20 |       | 54(dB $\mu$ V/m) |            |

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### 10.5 Restricted band Measurement

|  |                          |       |       |                  |            |
|--|--------------------------|-------|-------|------------------|------------|
| EUT                                      | HD525 Agricultural Drone |       |       | Model            | 3WWDZ-U25A |
| Mode                                     | Keeping Transmitting     |       |       | Test Voltage     | DC67.5V    |
| Temperature                              | 24 deg. C,               |       |       | Humidity         | 56% RH     |
| Test Result:                             | Pass                     |       |       | Detector         | PK         |
| 1.25M Bandwidth, Low Channel, Horizontal |                          |       |       |                  |            |
| 2390                                     | PK (dB $\mu$ V/m)        | 49.13 | Limit | 74(dB $\mu$ V/m) |            |
|  | AV (dB $\mu$ V/m)        | --    |       | 54(dB $\mu$ V/m) |            |
| 1.25M Bandwidth, Low Channel Vertical    |                          |       |       |                  |            |
| 2390                                     | PK (dB $\mu$ V/m)        | 45.21 | Limit | 74(dB $\mu$ V/m) |            |
|  | AV (dB $\mu$ V/m)        | --    |       | 54(dB $\mu$ V/m) |            |

### 10.5 Restricted band Measurement

|   |                          |       |       |                  |            |
|---|--------------------------|-------|-------|------------------|------------|
| EUT                                       | HD525 Agricultural Drone |       |       | Model            | 3WWDZ-U25A |
| Mode                                      | Keeping Transmitting     |       |       | Test Voltage     | DC67.5V    |
| Temperature                               | 24 deg. C,               |       |       | Humidity         | 56% RH     |
| Test Result:                              | Pass                     |       |       | Detector         | PK         |
| 1.25M Bandwidth, High Channel, Horizontal |                          |       |       |                  |            |
| 2483.5                                    | PK (dB $\mu$ V/m)        | 61.21 | Limit | 74(dB $\mu$ V/m) |            |
|   | AV (dB $\mu$ V/m)        | 46.37 |       | 54(dB $\mu$ V/m) |            |
| 1.25M Bandwidth, High Channel, Vertical   |                          |       |       |                  |            |
| 2483.5                                    | PK (dB $\mu$ V/m)        | 57.29 | Limit | 74(dB $\mu$ V/m) |            |
|   | AV (dB $\mu$ V/m)        | 43.05 |       | 54(dB $\mu$ V/m) |            |

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## 12.0 Antenna Requirement

### 12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

### 12.2 Antenna Connected construction

Rod antennas with gain 3.34dBi Max for each one (Get from the antenna specification)

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### 13.0 FCC ID Label

#### FCC ID: 2BBNT-3WWDZ-U25A

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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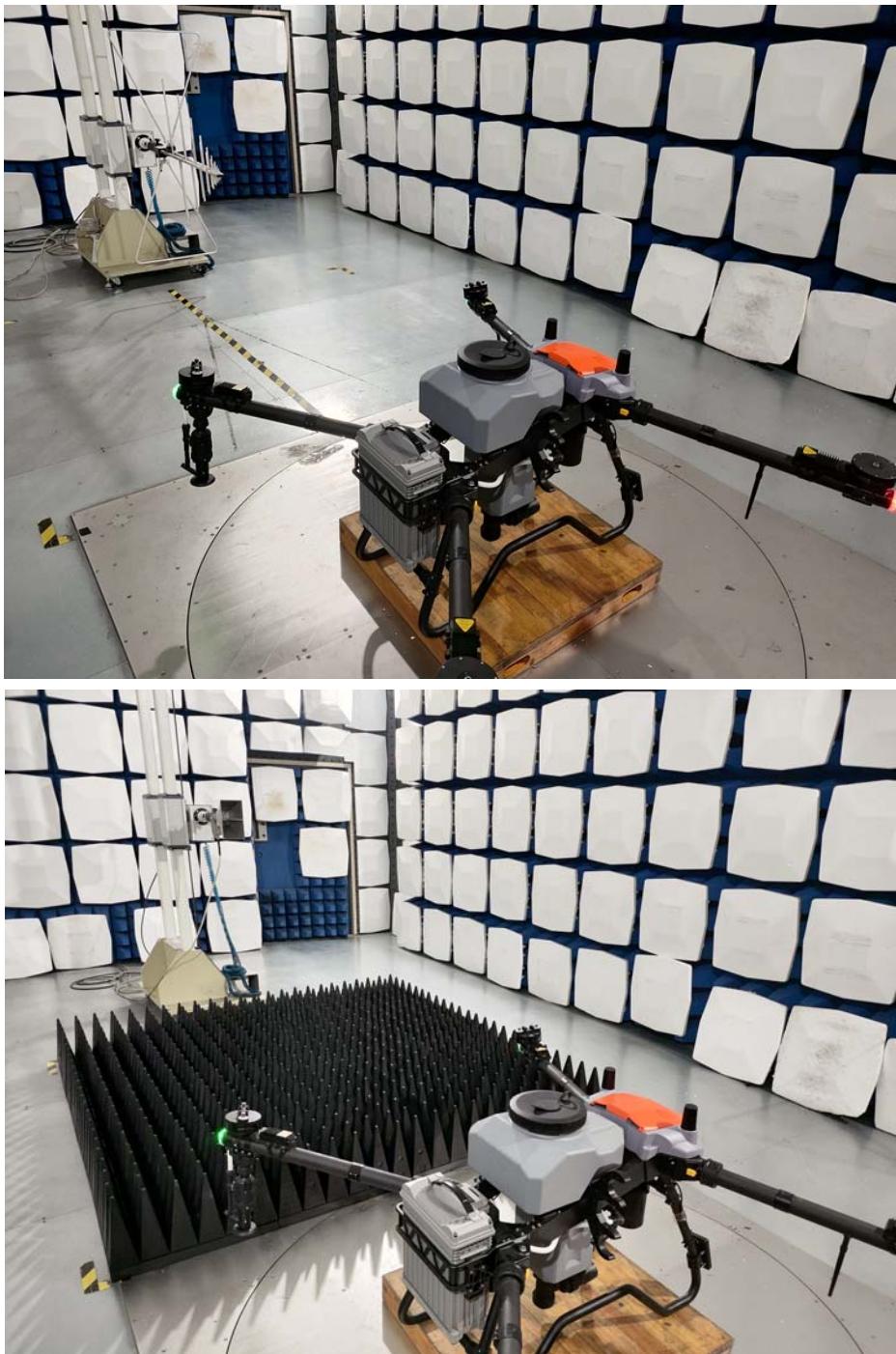


#### 14.0 Photo of testing

Conducted Emission Test Setup:

N/A

Radiated Emission Test Setup:



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**Photographs – EUT**

Please refer test report TWN2505548-02E

**-End of the report-**

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