



Report No.: TW2501110-01E

Applicant: DMR Technologies

Product: Remote Control

Model No.: Agri-Pro H20, Agri-Pro

Trademark: DMR Technologies

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: February 06, 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

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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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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

1.2 Applicant Details

Applicant: DMR Technologies
Address: 2050 15th St., Detroit, MI 48216

1.3 Description of EUT

Product: Remote Control
Manufacturer: DMR Technologies
Address: 2050 15th St., Detroit, MI 48216
Trademark: DMR Technologies
Model Number: Agri-Pro H20
Additional Model Number: Agri-Pro
Hardware Version: V1.2
Software Version: V1.1
Serial No.: 2025H20A0001
Type of Modulation GFSK, $\pi/4$ DQPSK, 8DPSK for Bluetooth
Frequency range 2402-2480MHz for Bluetooth
Channel Spacing 1MHz for Bluetooth
Frequency Selection By software
Channel Number 79 channels for Bluetooth
Antenna: FPC Antenna. The gain of the antennas is 4.54dBi (Get from the antenna specification provided the manufacturer)
Rating: Input: DC12V, 3A
Battery: DC3.7V, 20000mAh Li-ion battery

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2025-01-09 to 2025-02-06

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB

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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

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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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|--|---|--------|----------|
| Requirement | CFR 47 Section | Result | Notes |
| Antenna Requirement | 15.203, 15.247(b)(4) | Pass | Complies |
| Maximum Peak Out Power | 15.247 (b)(1), (4) | Pass | Complies |
| Carrier Frequency Separation | 15.247(a)(1) | Pass | Complies |
| 20dB Channel Bandwidth | 15.247 (a)(1) | Pass | Complies |
| Number of Hopping Channels | 15.247(a)(iii), 15.247(b)(1) | Pass | Complies |
| Time of Occupancy (Dwell Time) | 15.247(a)(iii) | Pass | Complies |
| Spurious Emission, Band Edge, and Restricted bands | 15.247(d),15.205(a), 15.209 (a),15.109 | Pass | Complies |
| Conducted Emissions | 15.207(a), 15.107 | Pass | Complies |
| RF Exposure | 15.247(i), 1.1307(b)(1) | Pass | Complies |

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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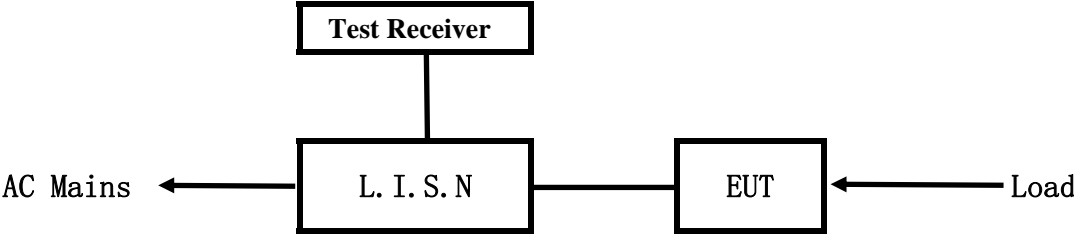
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5. Power Line Conducted Emission Test

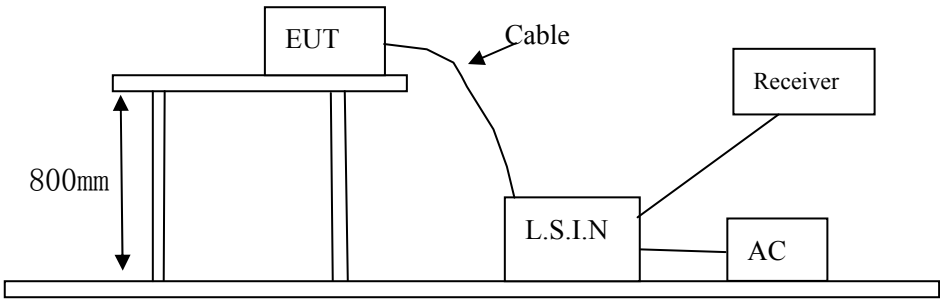
5.1 Schematics of the test



EUT: Equipment Under Test

5.2 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: 120V~, 60Hz
Block diagram of Test setup



5.3 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 |
|----------------|------------------|------------------------|-----------|
| Remote Control | DMR Technologies | Agri-Pro H20, Agri-Pro | 2BM3J-H20 |

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B. Internal Device

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| | | | |

C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------------|--------------|-----------|---|
| Power Supply | Xiaomi | MDY-12-EF | Input: 100-240V~, 50/60Hz, 1.7A; Output: DC5V, 3A; 5-20A; 6.2- 3.25A(67W Max) |

5.4 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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ 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

5.6 Test Results

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

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

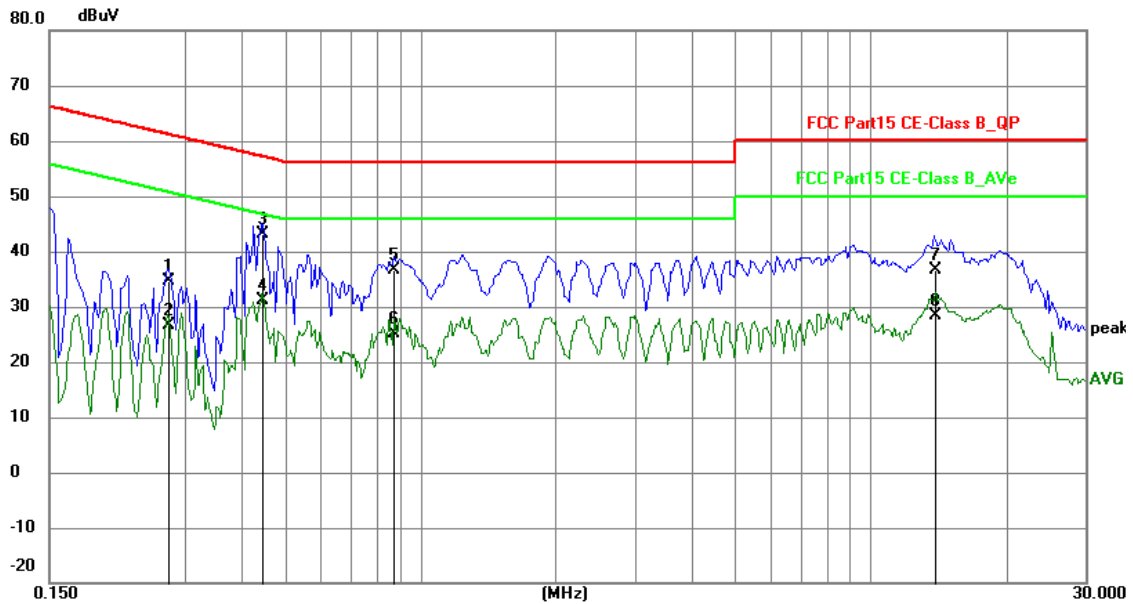
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.2748 | 24.33 | 10.34 | 34.67 | 60.97 | -26.30 | QP | P |
| 2 | 0.2748 | 16.38 | 10.34 | 26.72 | 50.97 | -24.25 | AVG | P |
| 3 | 0.4464 | 32.72 | 10.39 | 43.11 | 56.94 | -13.83 | QP | P |
| 4 | 0.4464 | 20.62 | 10.39 | 31.01 | 46.94 | -15.93 | AVG | P |
| 5 | 0.8754 | 26.07 | 10.48 | 36.55 | 56.00 | -19.45 | QP | P |
| 6 | 0.8754 | 14.59 | 10.48 | 25.07 | 46.00 | -20.93 | AVG | P |
| 7 | 13.8810 | 21.76 | 14.84 | 36.60 | 60.00 | -23.40 | QP | P |
| 8 | 13.8810 | 13.61 | 14.84 | 28.45 | 50.00 | -21.55 | AVG | P |

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

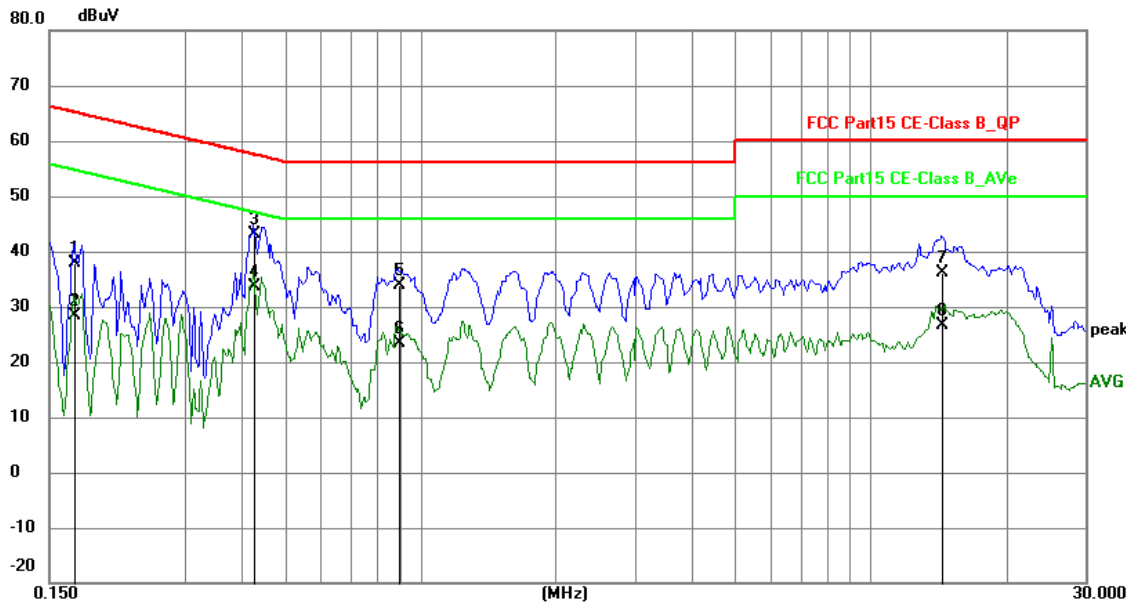
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.1695 | 27.43 | 10.33 | 37.76 | 64.98 | -27.22 | QP | P |
| 2 | 0.1695 | 18.16 | 10.33 | 28.49 | 54.98 | -26.49 | AVG | P |
| 3 | 0.4269 | 32.73 | 10.38 | 43.11 | 57.31 | -14.20 | QP | P |
| 4 | 0.4269 | 23.18 | 10.38 | 33.56 | 47.31 | -13.75 | AVG | P |
| 5 | 0.8949 | 23.38 | 10.49 | 33.87 | 56.00 | -22.13 | QP | P |
| 6 | 0.8949 | 12.78 | 10.49 | 23.27 | 46.00 | -22.73 | AVG | P |
| 7 | 14.4231 | 21.25 | 14.98 | 36.23 | 60.00 | -23.77 | QP | P |
| 8 | 14.4231 | 11.60 | 14.98 | 26.58 | 50.00 | -23.42 | AVG | P |

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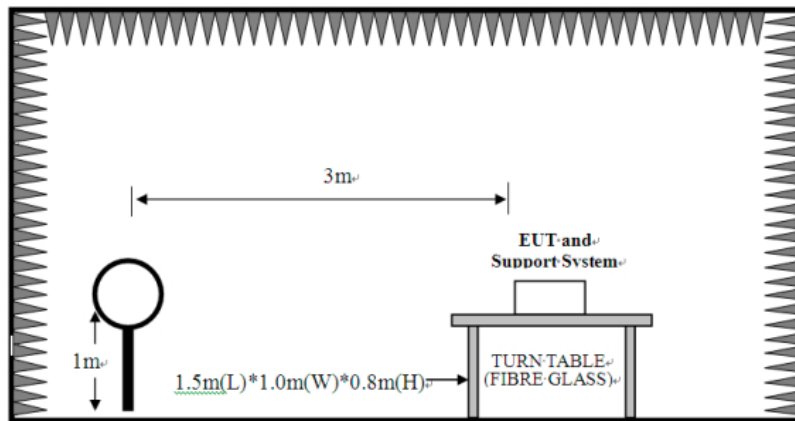
6 Radiated Emission Test

6.1 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 25GHz 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=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high 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 was 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



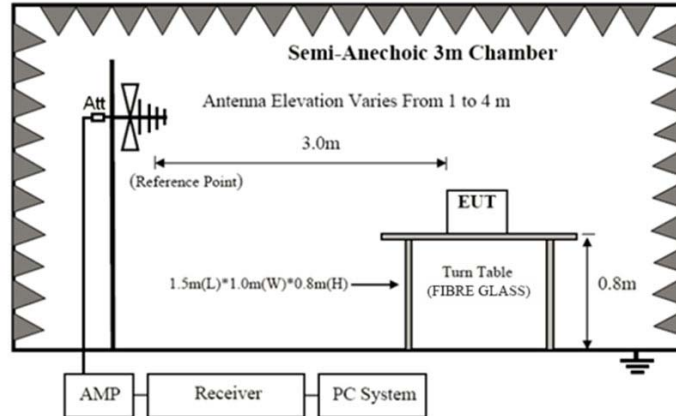
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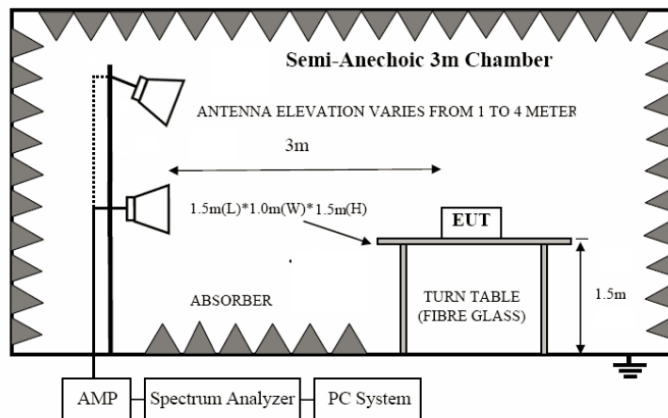
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 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 μ V/m) |
|-----------------------|--------------|-------------------------------|
| 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 RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. 8DPSK was the worst case because it has highest output power

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: **Pass**

The report refers only to the sample tested and does not apply to the bulk.

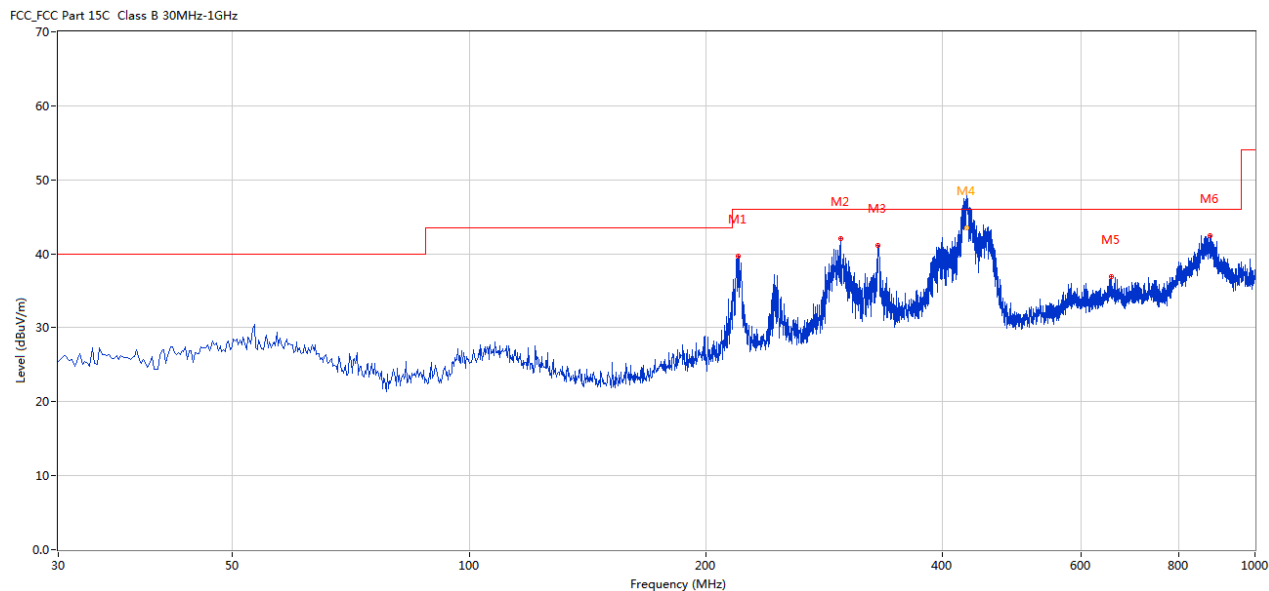
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Test Figure:

H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1 | 219.830 | 39.68 | -6.07 | 46.0 | 6.32 | Peak | 207.00 | 100 | Horizontal | Pass |
| 2 | 297.168 | 42.10 | -4.05 | 46.0 | 3.90 | Peak | 326.00 | 100 | Horizontal | Pass |
| 3 | 331.352 | 41.14 | -3.19 | 46.0 | 4.86 | Peak | 312.00 | 100 | Horizontal | Pass |
| 4* | 429.540 | 43.46 | -0.91 | 46.0 | 2.54 | QP | 190.00 | 100 | Horizontal | Pass |
| 5 | 656.948 | 37.93 | 2.13 | 46.0 | 8.07 | Peak | 34.00 | 100 | Horizontal | Pass |
| 6 | 877.326 | 43.43 | 5.07 | 46.0 | 2.57 | Peak | 62.00 | 100 | Horizontal | Pass |

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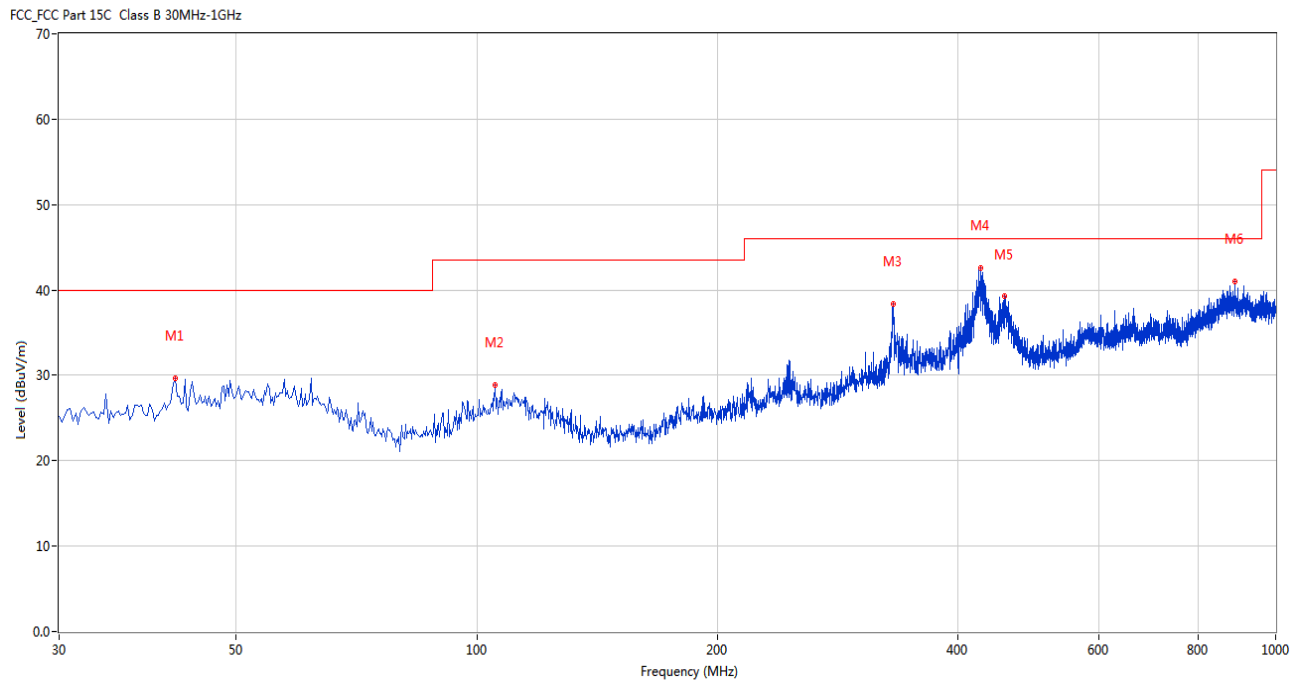
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Test Figure:

V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1 | 41.880 | 29.66 | -5.47 | 40.0 | 10.34 | Peak | 272.00 | 100 | Vertical | Pass |
| 2 | 105.399 | 28.93 | -6.18 | 43.5 | 14.57 | Peak | 136.00 | 100 | Vertical | Pass |
| 3 | 331.837 | 38.31 | -3.18 | 46.0 | 7.69 | Peak | 297.00 | 100 | Vertical | Pass |
| 4 | 427.358 | 42.60 | -1.31 | 46.0 | 3.40 | Peak | 358.00 | 100 | Vertical | Pass |
| 5 | 457.906 | 39.23 | -0.83 | 46.0 | 6.77 | Peak | 309.00 | 100 | Vertical | Pass |
| 6 | 888.235 | 41.00 | 4.91 | 46.0 | 5.00 | Peak | 19.00 | 100 | Vertical | Pass |

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Operation Mode: Transmitting under Low Channel (2402MHz)

| Frequency (MHz) | Level@3m (dBμV/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------|------------------|---------------------|
| 4804 | -- | H | 74(Peak)/ 54(AV) |
| 4804 | -- | V | 74(Peak)/ 54(AV) |
| 7206 | -- | H/V | 74(Peak)/ 54(AV) |
| 9608 | -- | H/V | 74(Peak)/ 54(AV) |
| 12010 | -- | H/V | 74(Pe k)/ 54(AV) |
| 14412 | -- | H/V | 74(Pe k)/ 54(AV) |
| 16814 | -- | H/V | 74(Peak)/ 54(AV) |
| 19216 | -- | H/V | 74(Peak)/ 54(AV) |
| 21618 | -- | H/V | 74(Peak)/ 54(AV) |
| 24020 | -- | 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

Operation Mode: Transmitting g under Middle Channel (2441MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|---------------------|------------------|---------------------|
| 4882 | -- | H | 74(Peak)/ 54(AV) |
| 4882 | -- | V | 74(Peak)/ 54(AV) |
| 7323 | -- | H/V | 74(Peak)/ 54(AV) |
| 9764 | -- | H/V | 74(Peak)/ 54(AV) |
| 12205 | -- | H/V | 74(Peak)/ 54(AV) |
| 14646 | -- | H/V | 74(Peak)/ 54(AV) |
| 17087 | -- | H/V | 74(Peak)/ 54(AV) |
| 19528 | -- | H/V | 74(Peak)/ 54(AV) |
| 21969 | -- | H/V | 74(Peak)/ 54(AV) |
| 24410 | -- | 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

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Operation Mode: Transmitting under High Channel (2480MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 4960 | -- | H | 74(Peak)/ 54(AV) |
| 4960 | -- | 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

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span =2MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

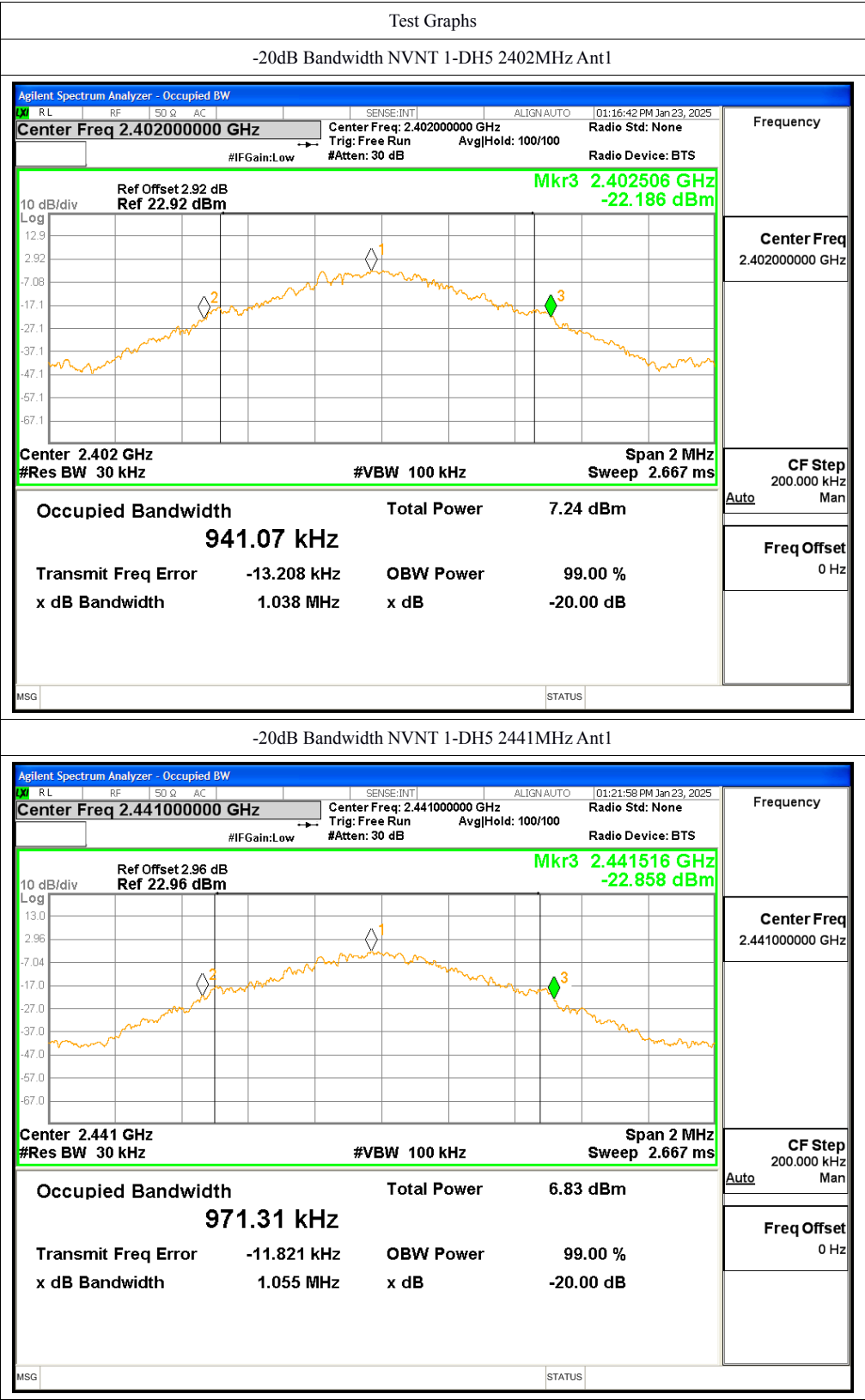
Type of Modulation:

| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 1.038 | 0 | Pass |
| | | 2441 | | 1.055 | 0 | Pass |
| | | 2480 | | 1.041 | 0 | Pass |
| | 2-DH5 | 2402 | | 1.375 | 0 | Pass |
| | | 2441 | | 1.333 | 0 | Pass |
| | | 2480 | | 1.336 | 0 | Pass |
| | 3-DH5 | 2402 | | 1.292 | 0 | Pass |
| | | 2441 | | 1.306 | 0 | Pass |
| | | 2480 | | 1.294 | 0 | Pass |

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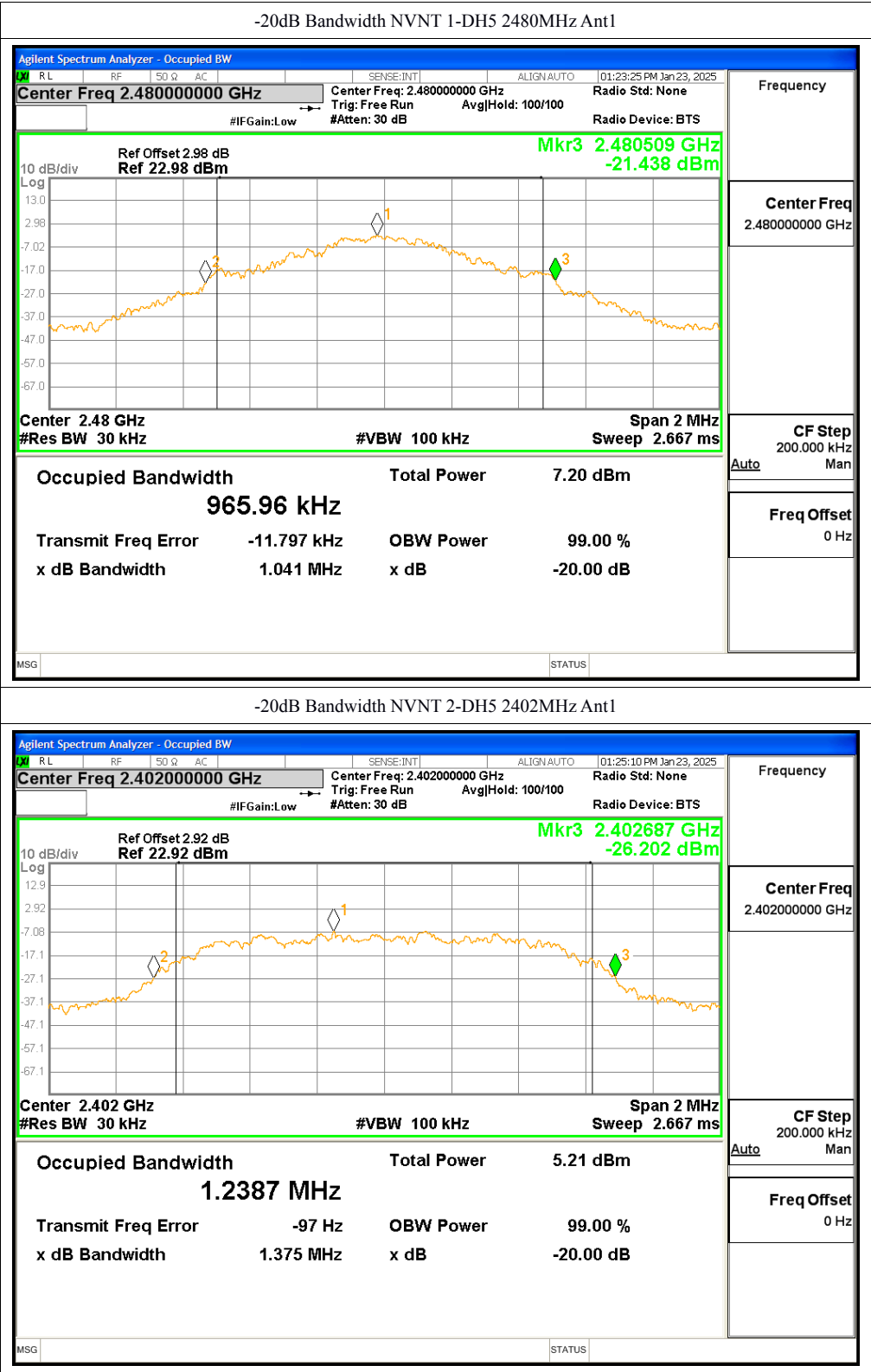
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Agilent Spectrum Analyzer - Occupied BW

RL

RF

50 Ω

AC

SENSE:INT

ALIGN: AUTO

01:25:10 PM Jan 23, 2025

Center Freq 2.402000000 GHz

Center Freq: 2.402000000 GHz

Radio Std: None

#IFGain: Low

Trig: Free Run

Avg/Hold: 100/100

Radio Device: BTS

Ref Offset 2.92 dB

Ref 22.92 dBm

Mkr3 2.402687 GHz

-26.202 dBm

The plot shows a spectrum with a peak at 2.402687 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -67.1 to 12.9. The x-axis is labeled 'Center 2.402 GHz' and ranges from -47.1 to 47.1. The plot shows a peak at 2.402687 GHz with a power level of -26.202 dBm. The plot also shows a peak at 2.402000000 GHz with a power level of -26.202 dBm. The plot shows a peak at 2.402000000 GHz with a power level of -26.202 dBm.

Center 2.402 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 2 MHz

Sweep 2.667 ms

Occupied Bandwidth

Total Power

5.21 dBm

1.2387 MHz

Transmit Freq Error

-97 Hz

OBW Power

99.00 %

x dB Bandwidth

1.375 MHz

x dB

-20.00 dB

MSG

STATUS

Frequency

Center Freq

2.402000000 GHz

CF Step

200.000 kHz

Auto

Man

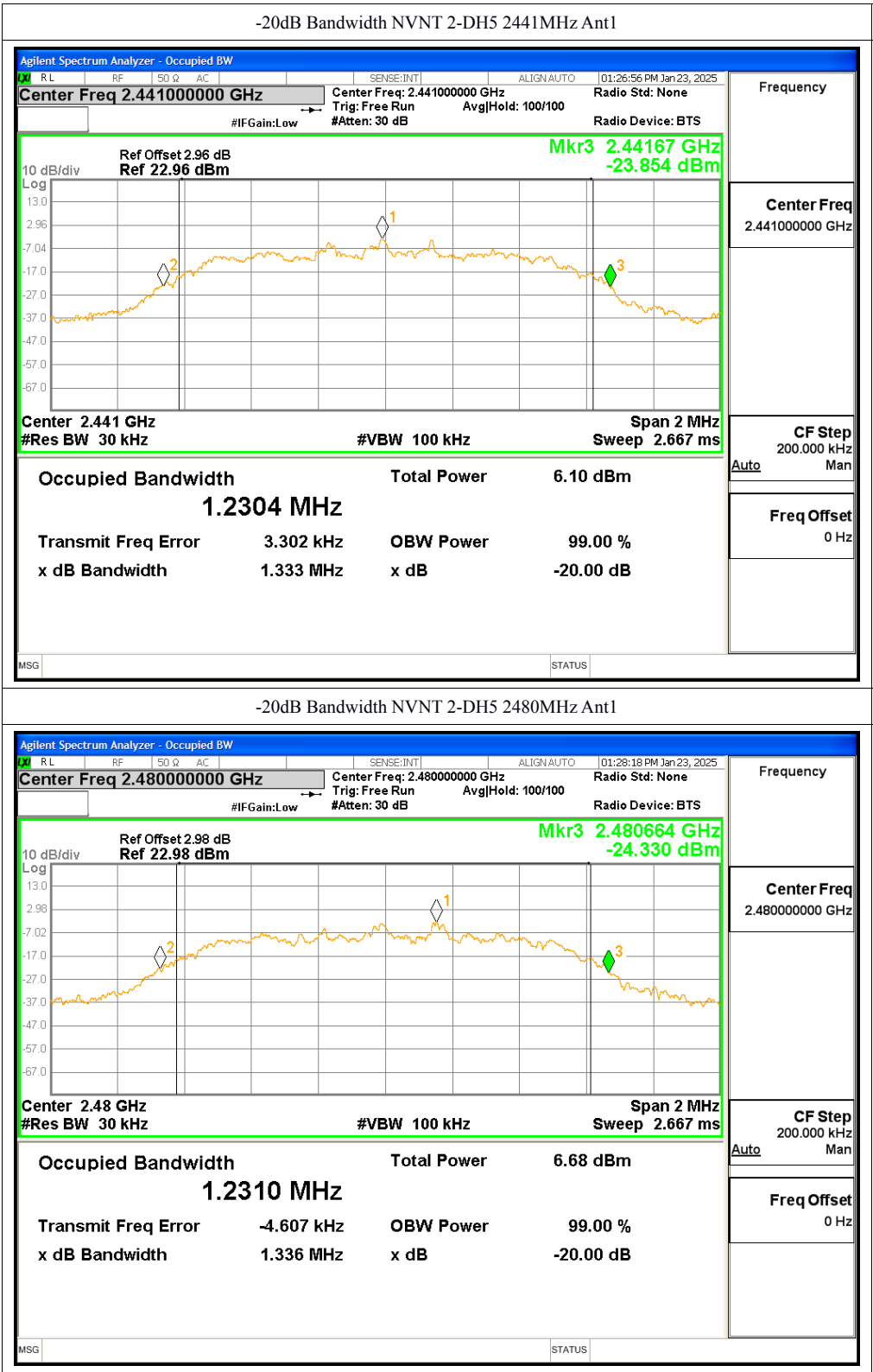
Freq Offset

0 Hz

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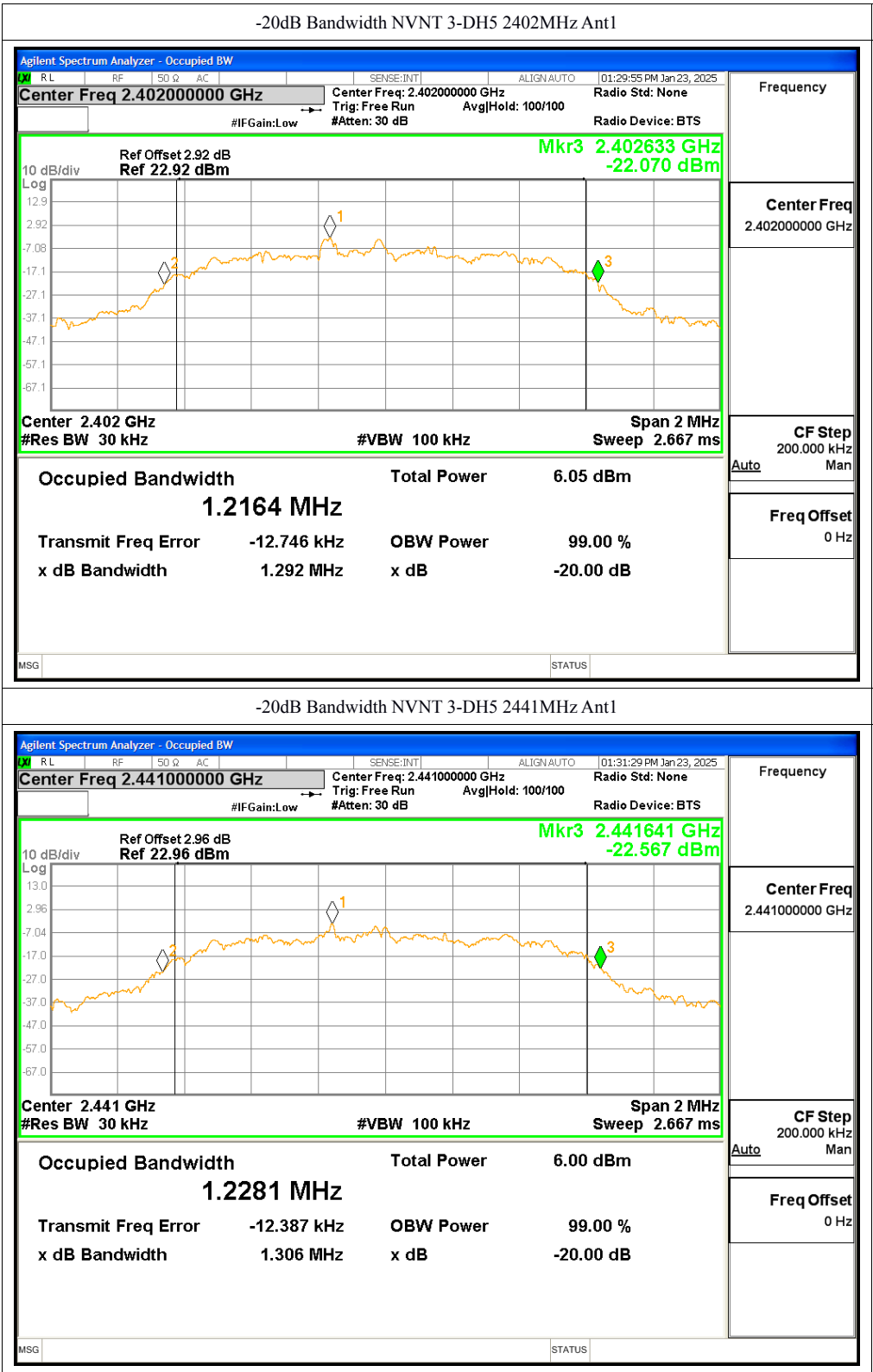
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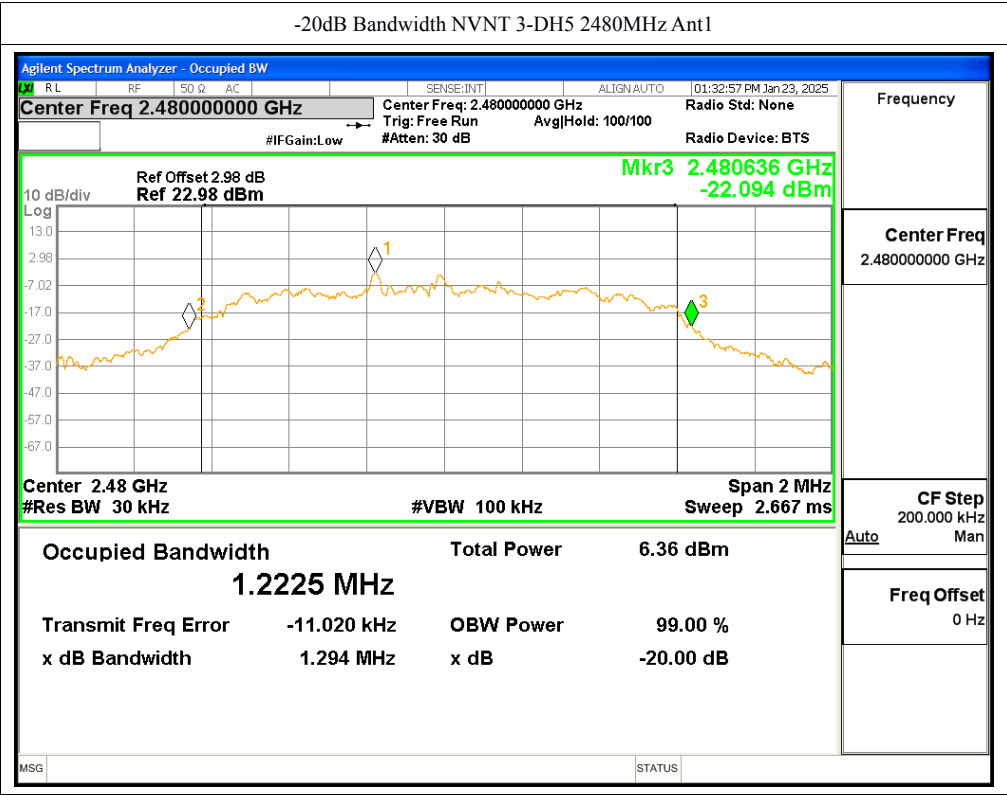
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8. Maximum Output Power

8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm or 21dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW =6MHz, RBW=2MHz; Sweep = 1.333ms; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

Note: The Peak power were measured

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8.4 Test Results

Type of Modulation:

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 0.21 | 0 | 0.21 | 30 | Pass |
| | | 2441 | | 0.5 | 0 | 0.5 | 30 | Pass |
| | | 2480 | | 0.69 | 0 | 0.69 | 30 | Pass |
| | 2-DH5 | 2402 | | 1.04 | 0 | 1.04 | 21 | Pass |
| | | 2441 | | 1.31 | 0 | 1.31 | 21 | Pass |
| | | 2480 | | 1.55 | 0 | 1.55 | 21 | Pass |
| | 3-DH5 | 2402 | | 1.43 | 0 | 1.43 | 21 | Pass |
| | | 2441 | | 1.7 | 0 | 1.7 | 21 | Pass |
| | | 2480 | | 1.95 | 0 | 1.95 | 21 | Pass |

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

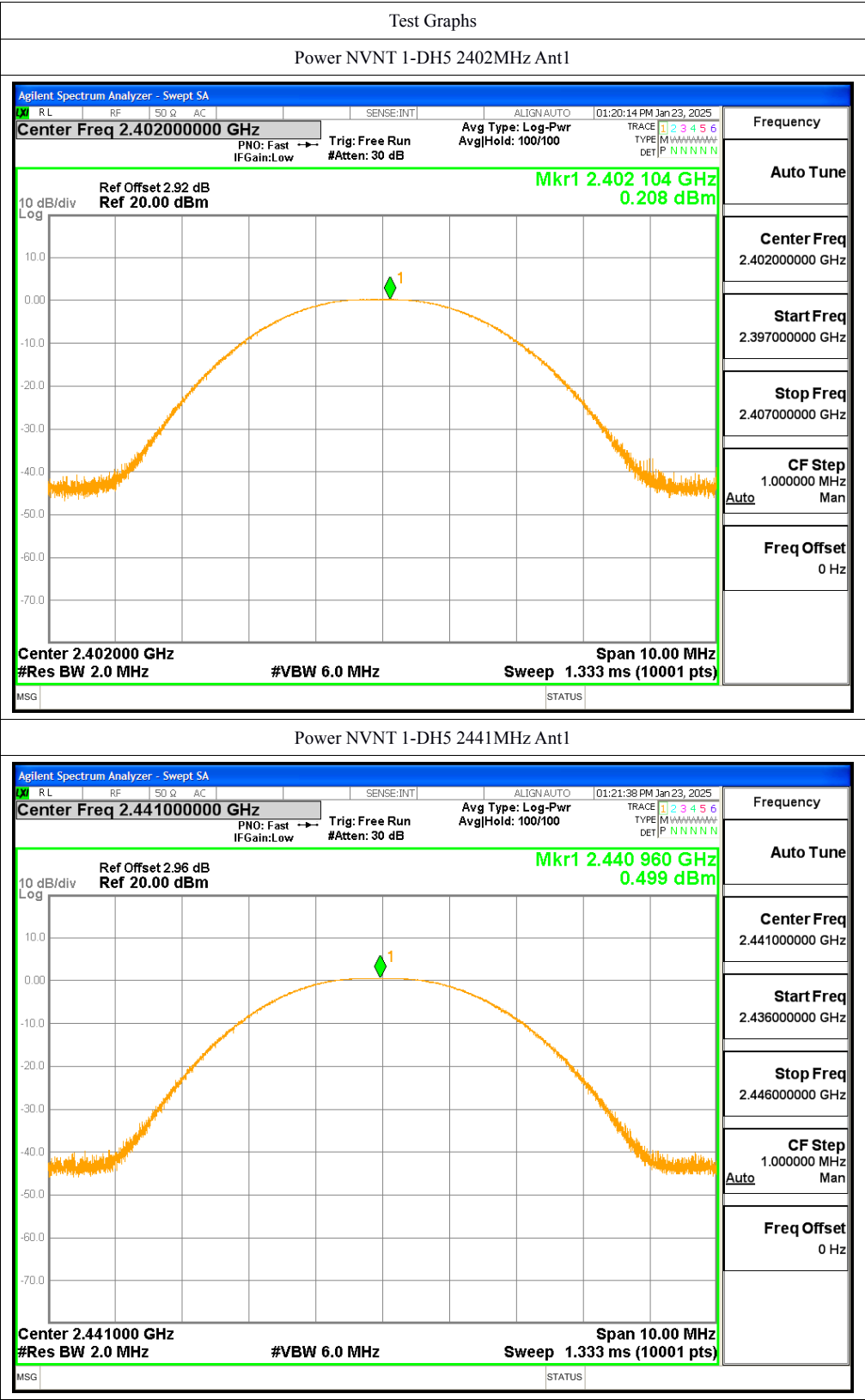
$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

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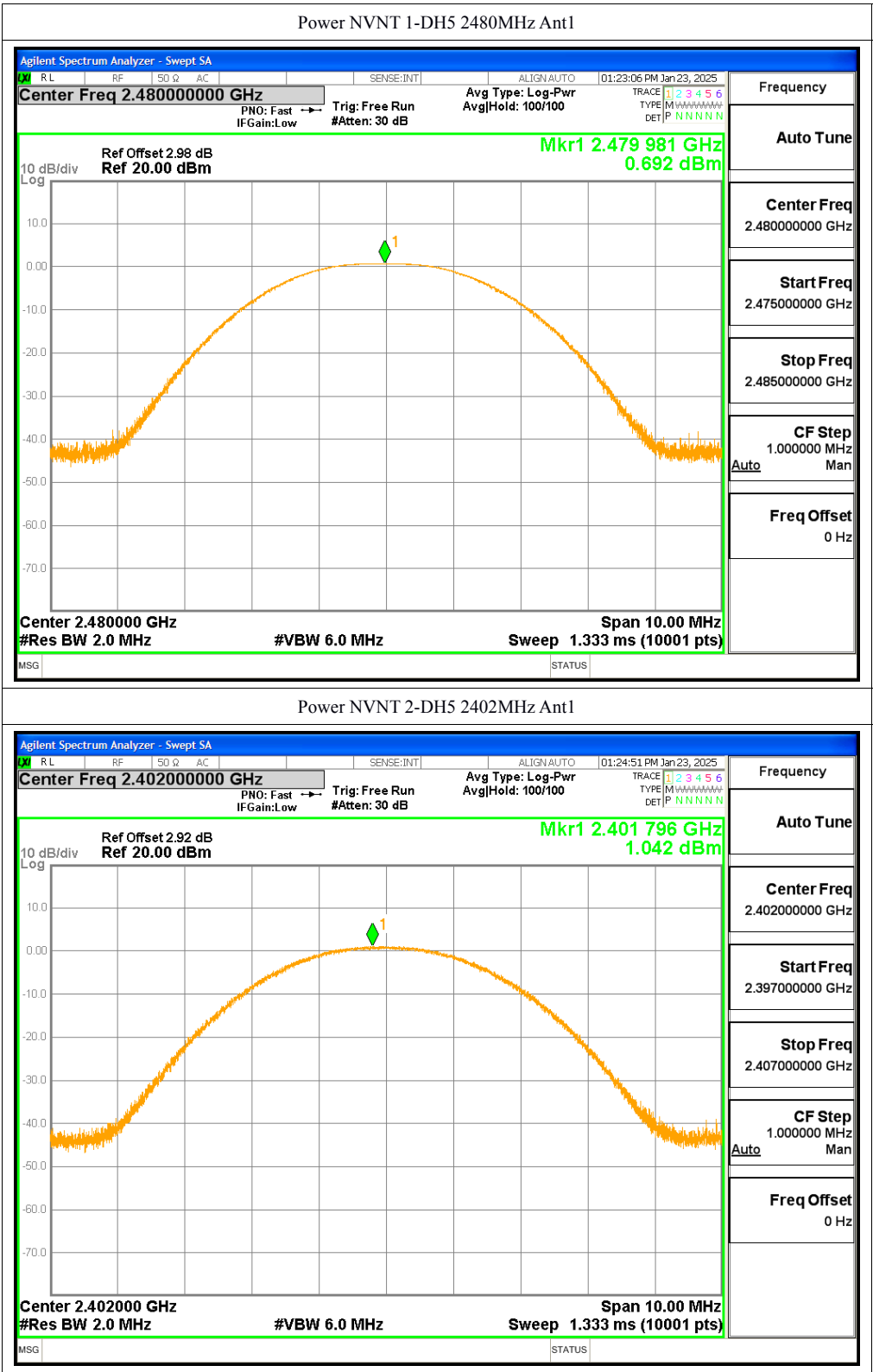
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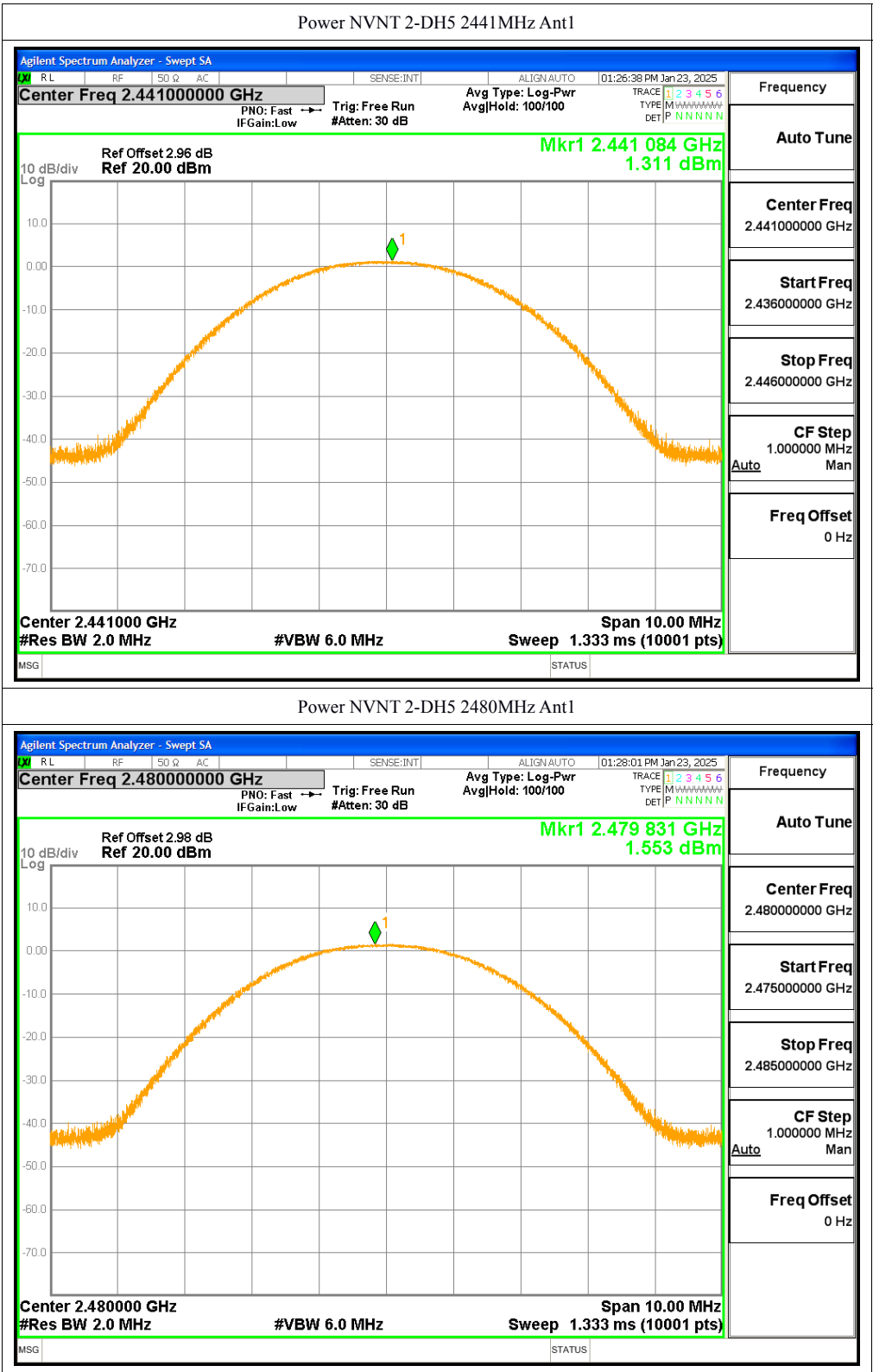
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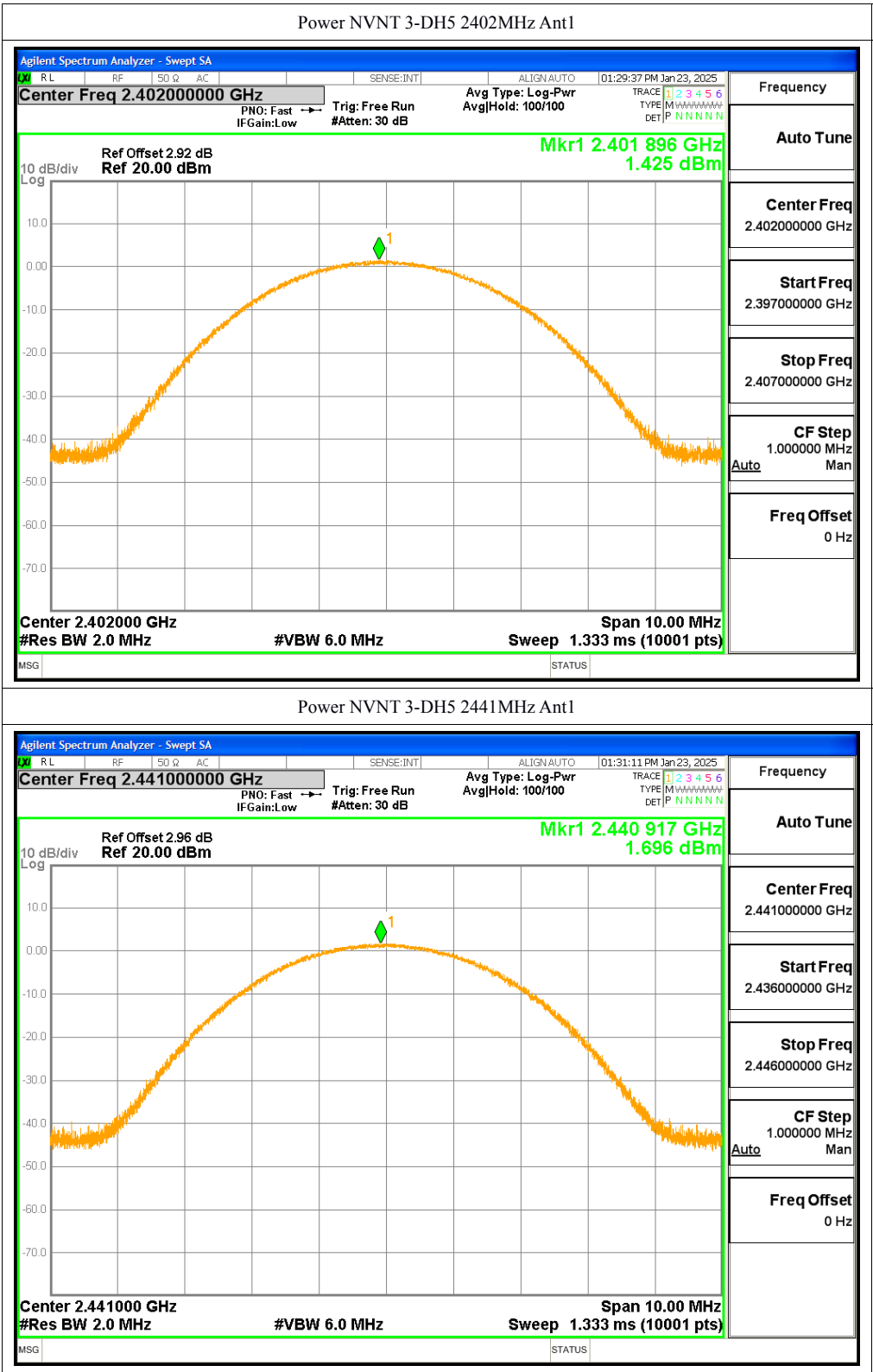
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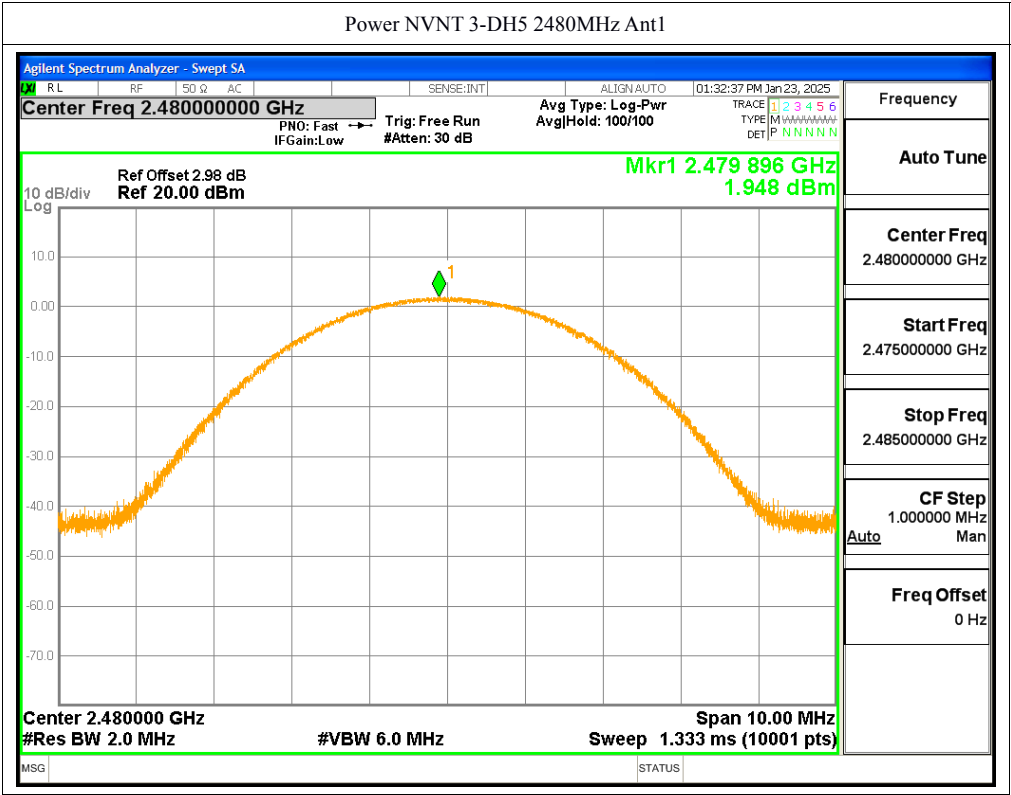
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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Carrier Frequency Separation is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) \geq 1% of the span; Video (or Average) Bandwidth (VBW) \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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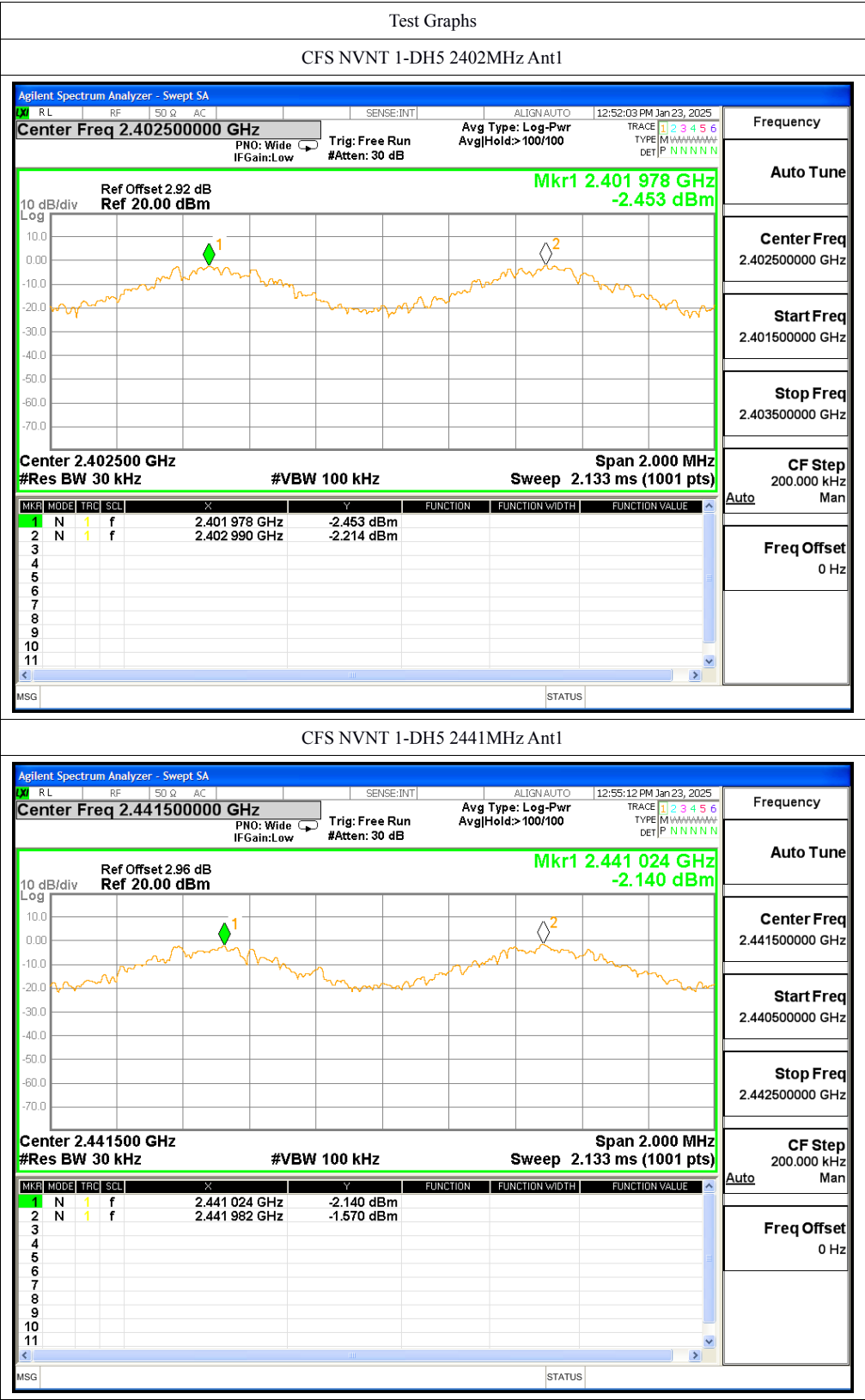


9.4Test Result

Type of Modulation:

| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|---|---------|
| NVNT | 1-DH5 | Ant1 | 2401.978 | 2402.99 | 1.012 | two-thirds of the 20dB bandwidth | Pass |
| | | | 2441.024 | 2441.982 | 0.958 | | Pass |
| | | | 2478.832 | 2480.002 | 1.17 | | Pass |
| | 2-DH5 | | 2401.992 | 2403.004 | 1.012 | | Pass |
| | | | 2440.982 | 2441.832 | 0.85 | | Pass |
| | | | 2478.842 | 2479.98 | 1.138 | | Pass |
| | 3-DH5 | | 2401.996 | 2402.992 | 0.996 | | Pass |
| | | | 2440.914 | 2441.964 | 1.05 | | Pass |
| | | | 2478.986 | 2479.84 | 0.854 | | Pass |

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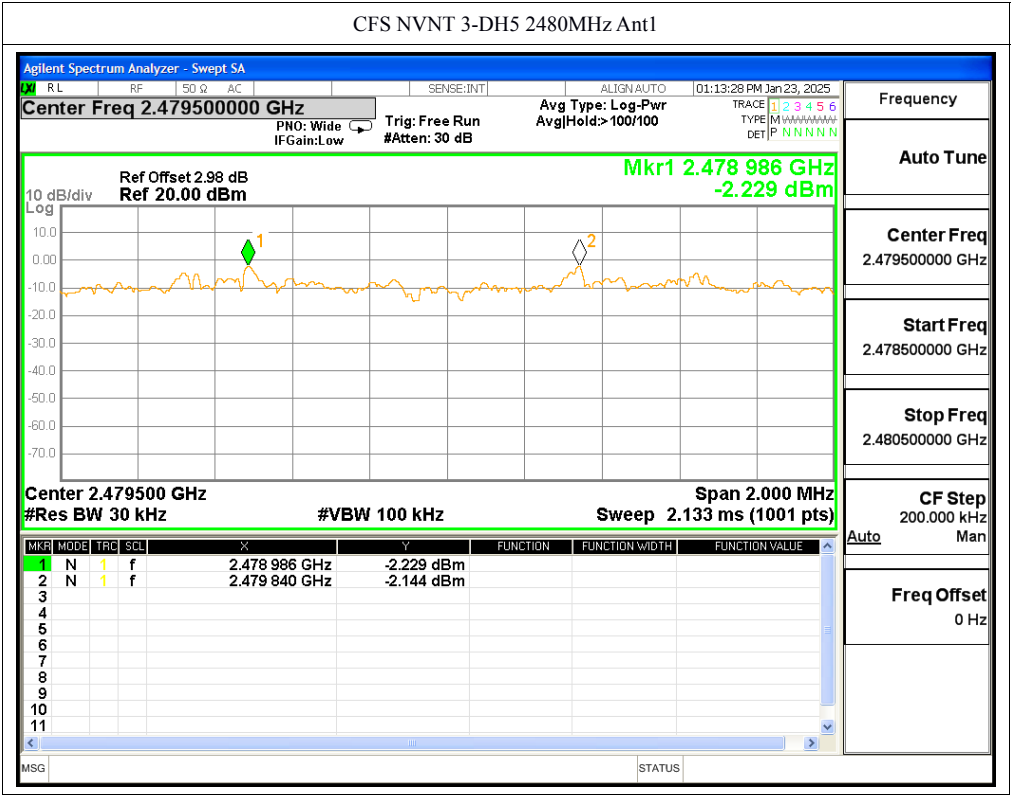
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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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10.4Test Result
Type of Modulation:

| Condition | Mode | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT | 1-DH5 | Ant1 | 79 | 15 | Pass |
| | 2-DH5 | | | 15 | Pass |
| | 3-DH5 | | | 15 | Pass |

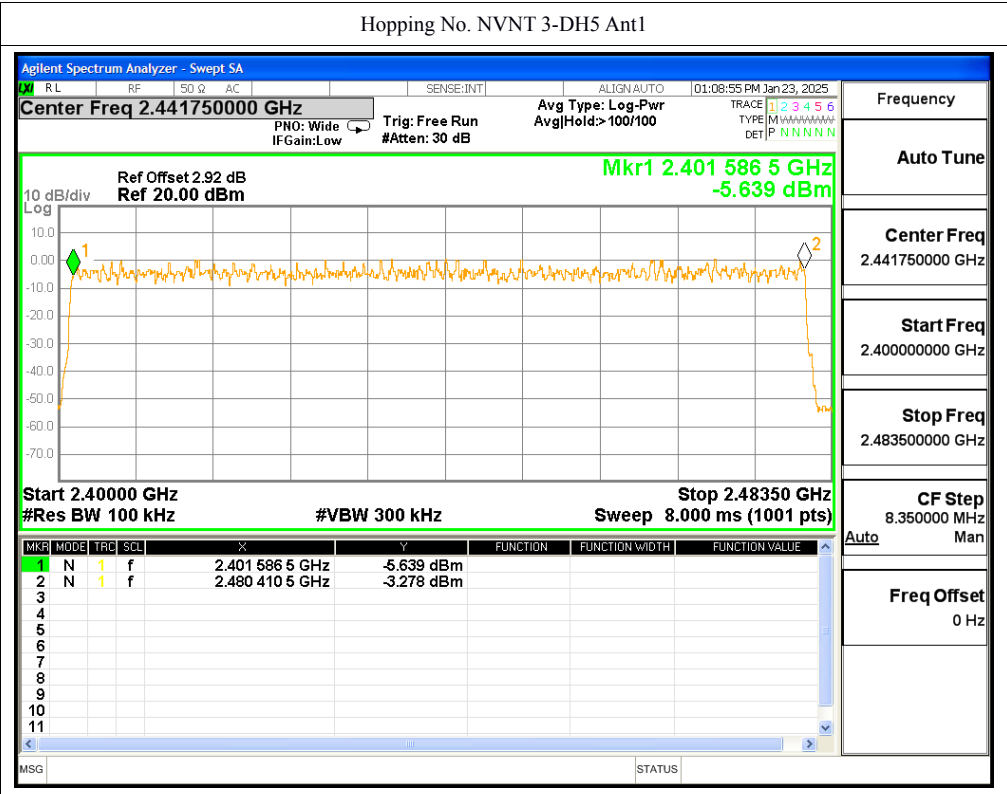
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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

| Condition | Mode | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-----------------------|-------------|------------------|------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 2.88 | 273.6 | 95 | 31600 | 400 | Pass |
| | | 2441 | | 2.88 | 360 | 125 | 31600 | 400 | Pass |
| | | 2480 | | 2.88 | 322.56 | 112 | 31600 | 400 | Pass |
| | 2-DH5 | 2402 | | 2.885 | 302.925 | 105 | 31600 | 400 | Pass |
| | | 2441 | | 2.886 | 314.574 | 109 | 31600 | 400 | Pass |
| | | 2480 | | 2.885 | 351.97 | 122 | 31600 | 400 | Pass |
| | 3-DH5 | 2402 | | 2.888 | 297.464 | 103 | 31600 | 400 | Pass |
| | | 2441 | | 2.887 | 340.666 | 118 | 31600 | 400 | Pass |
| | | 2480 | | 2.888 | 288.8 | 100 | 31600 | 400 | Pass |

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

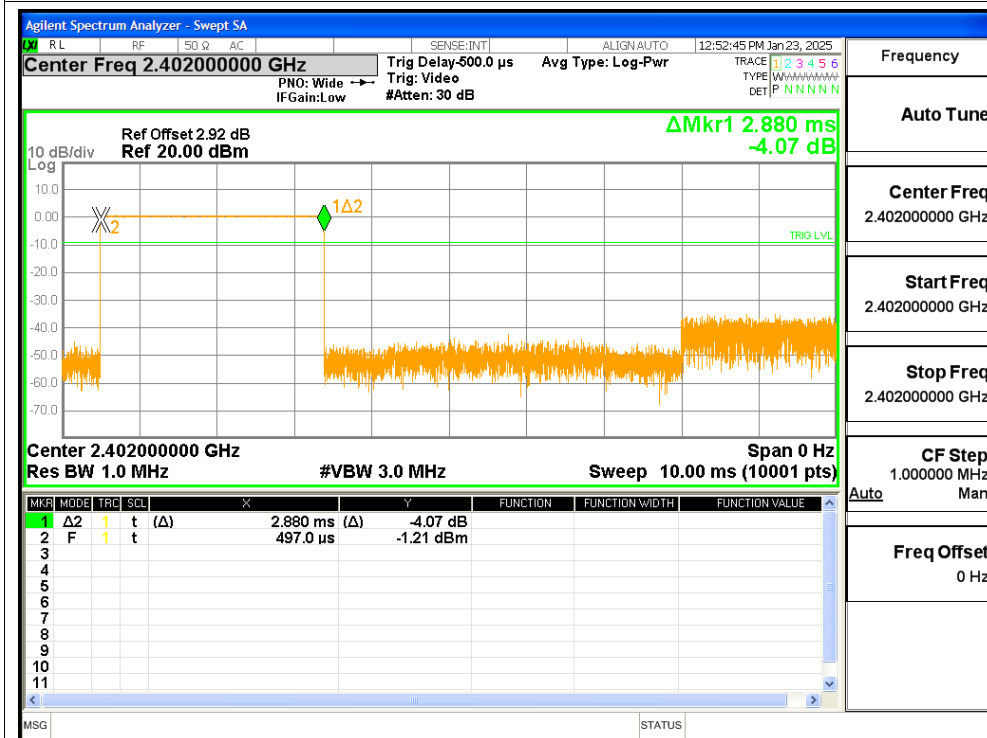
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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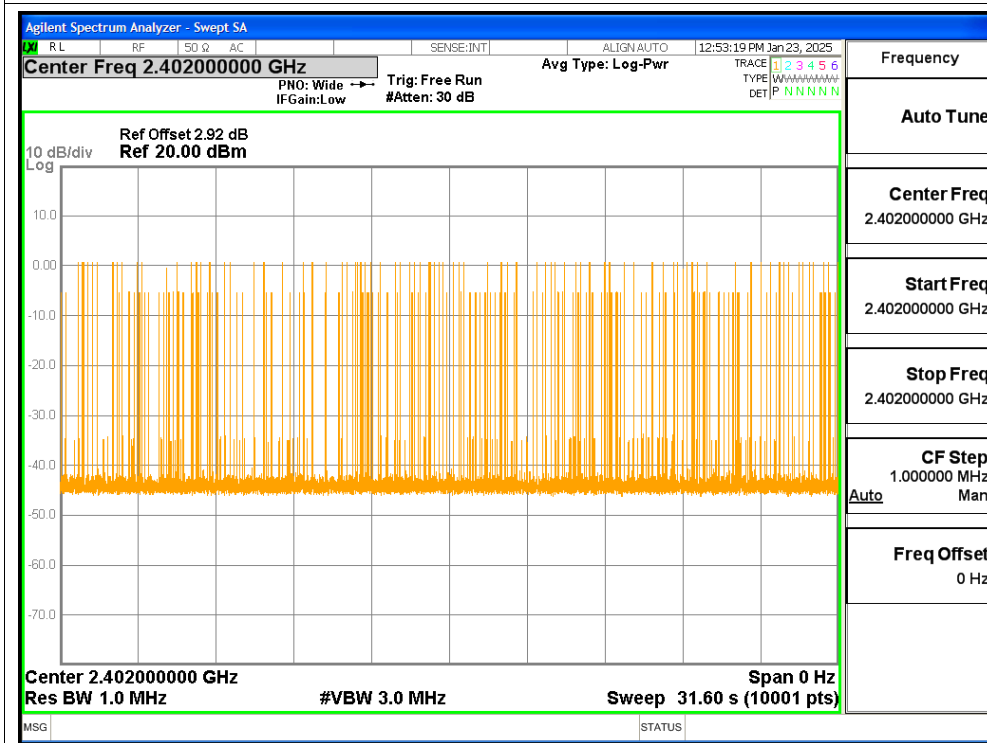
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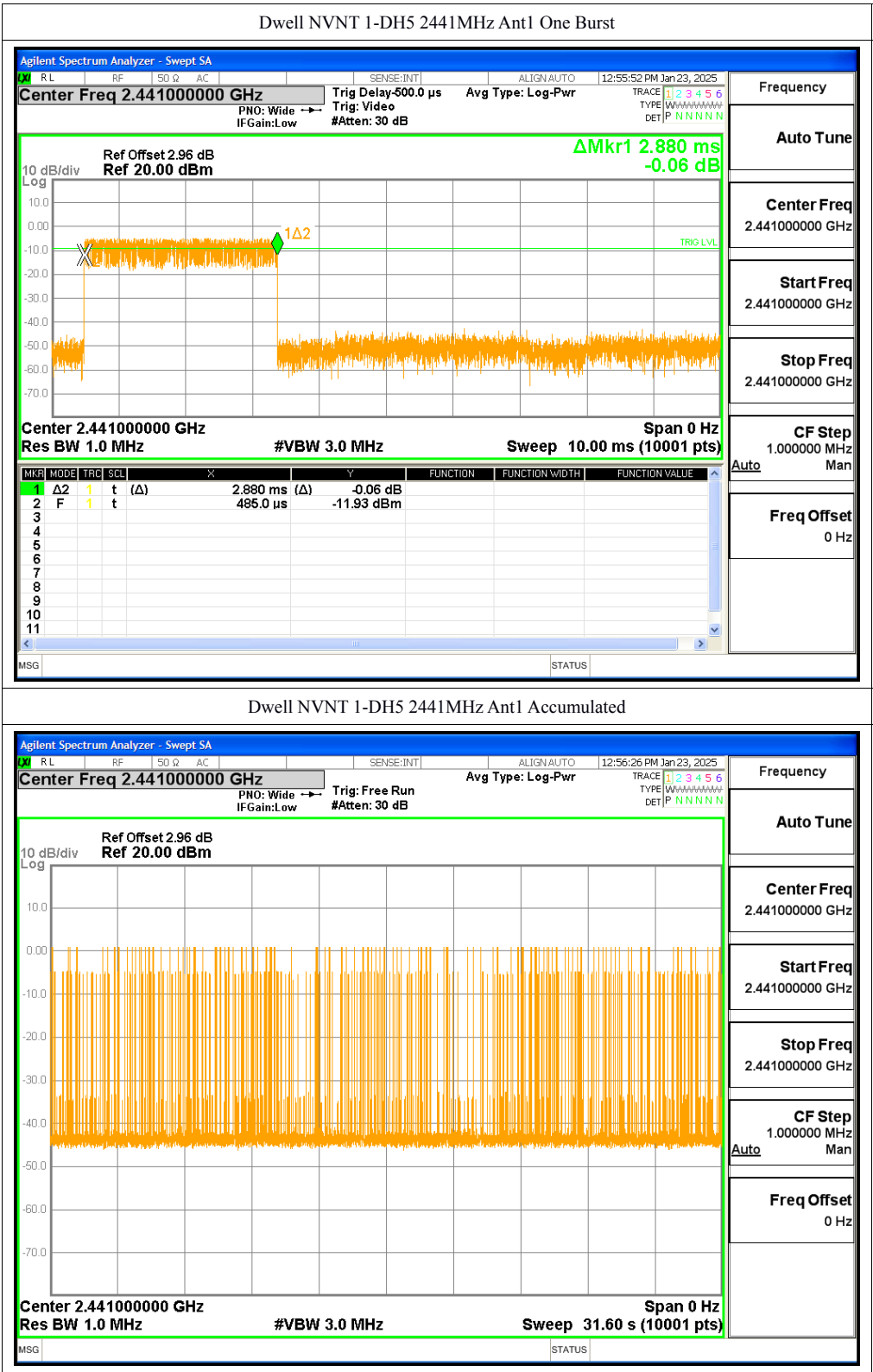
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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Agilent Spectrum Analyzer - Swept SA

RL RF 50 Q AC SENSE:INT ALIGN: AUTO 12:56:26 PM Jan 23, 2025

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Wide IF Gain: Low Trig: Video #Atten: 30 dB

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 2.96 dB

Ref 20.00 dBm

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSG STATUS

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

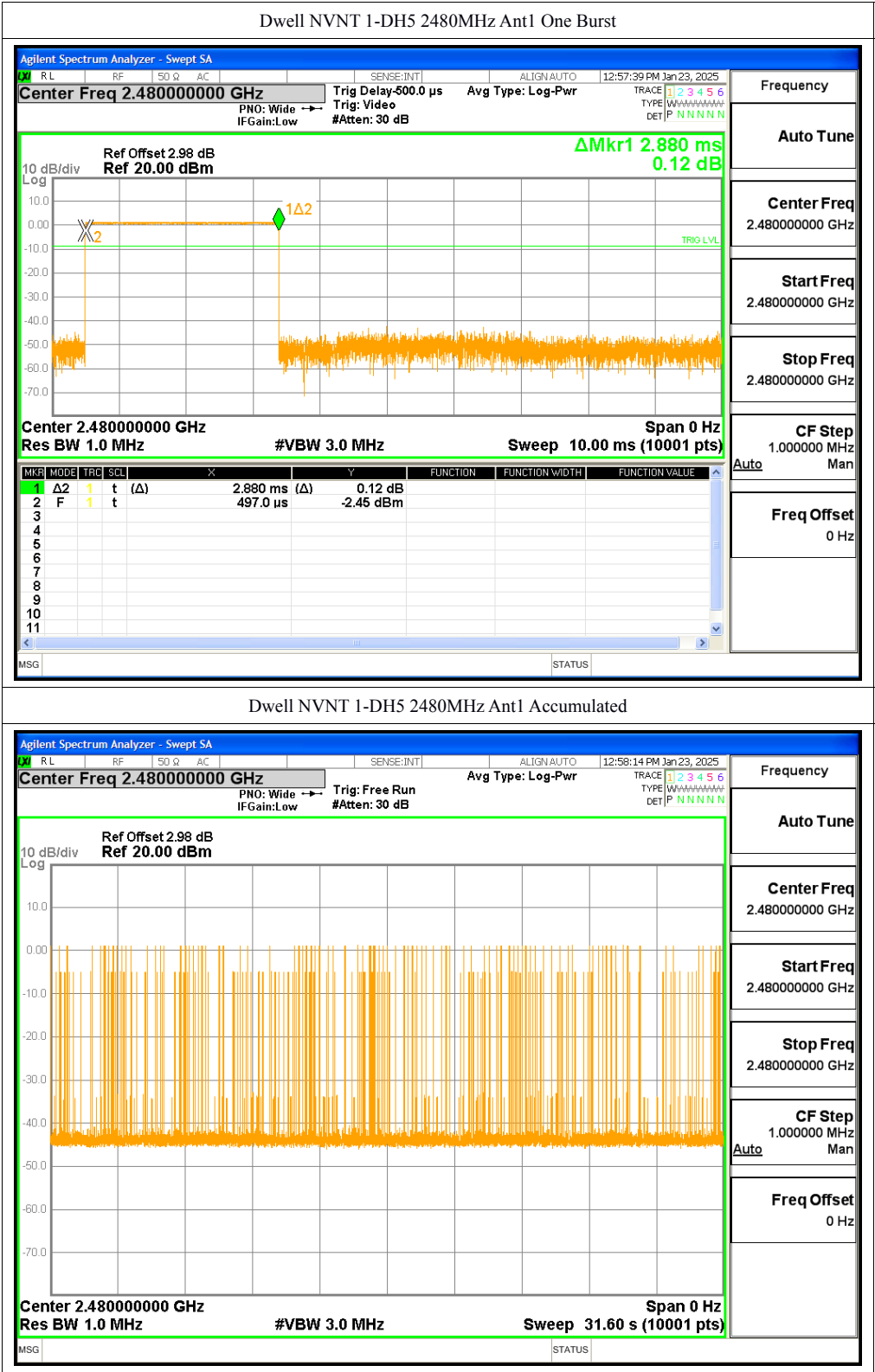
Auto Man

Freq Offset
0 Hz

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Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 12:58:14 PM Jan 23, 2025

Center Freq 2.480000000 GHz

Trig: Free Run

Trig: Video #Atten: 30 dB

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 2.98 dB

Ref 20.00 dBm

Center 2.480000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 31.60 s (10001 pts)

Span 0 Hz

MSG STATUS

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.480000000 GHz

Stop Freq
2.480000000 GHz

CF Step
1.000000 MHz

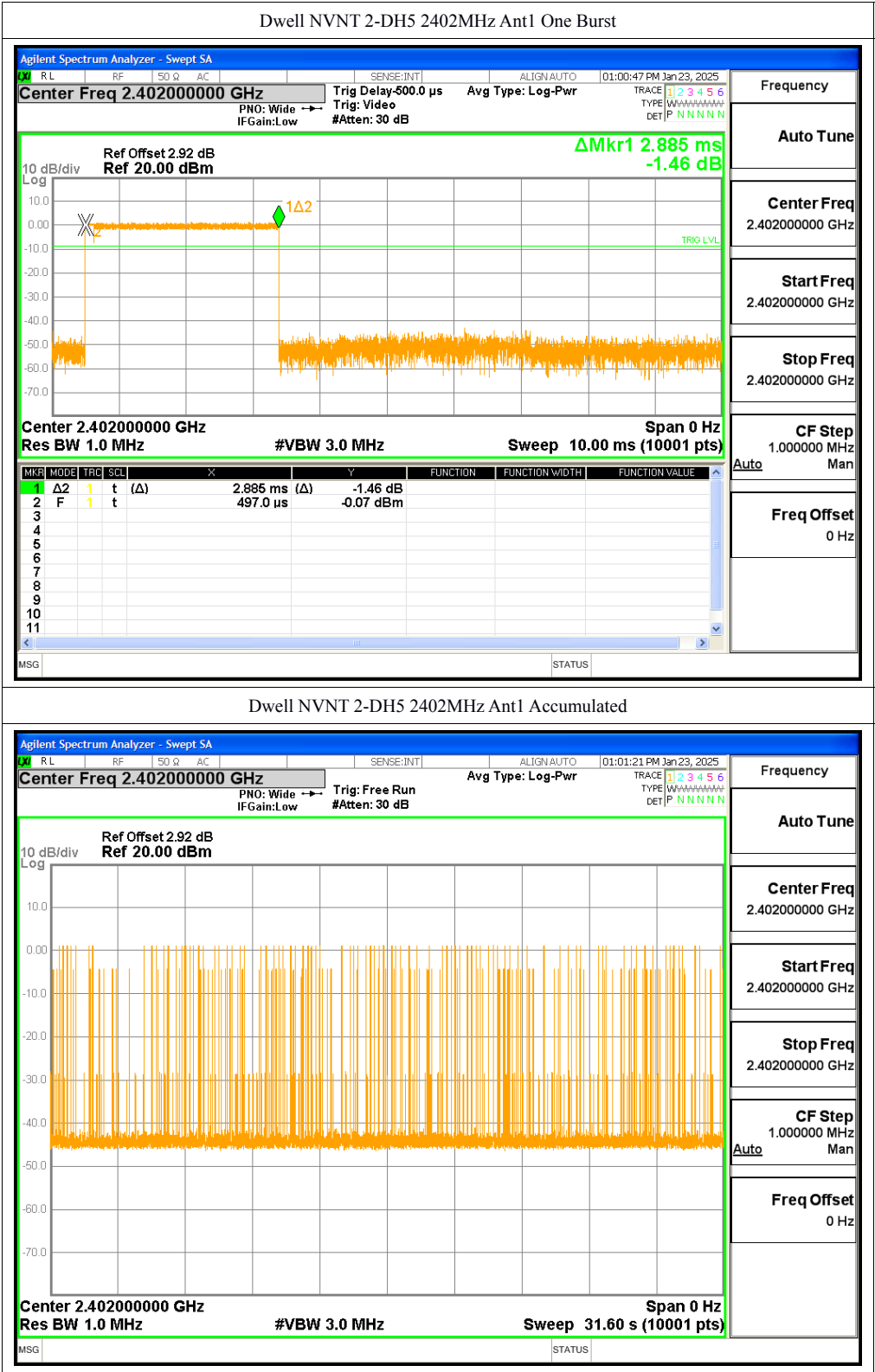
Auto Man

Freq Offset
0 Hz

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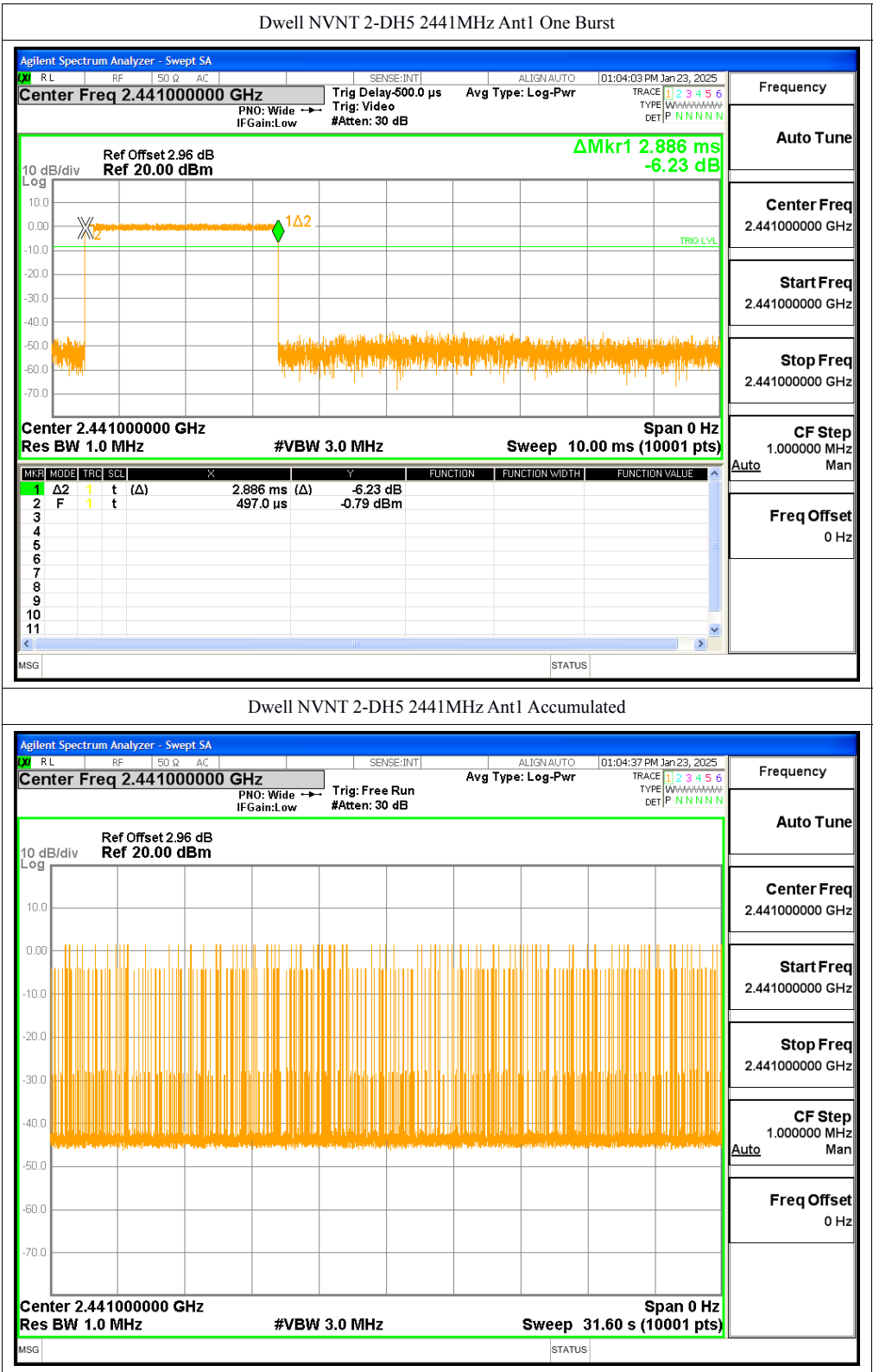
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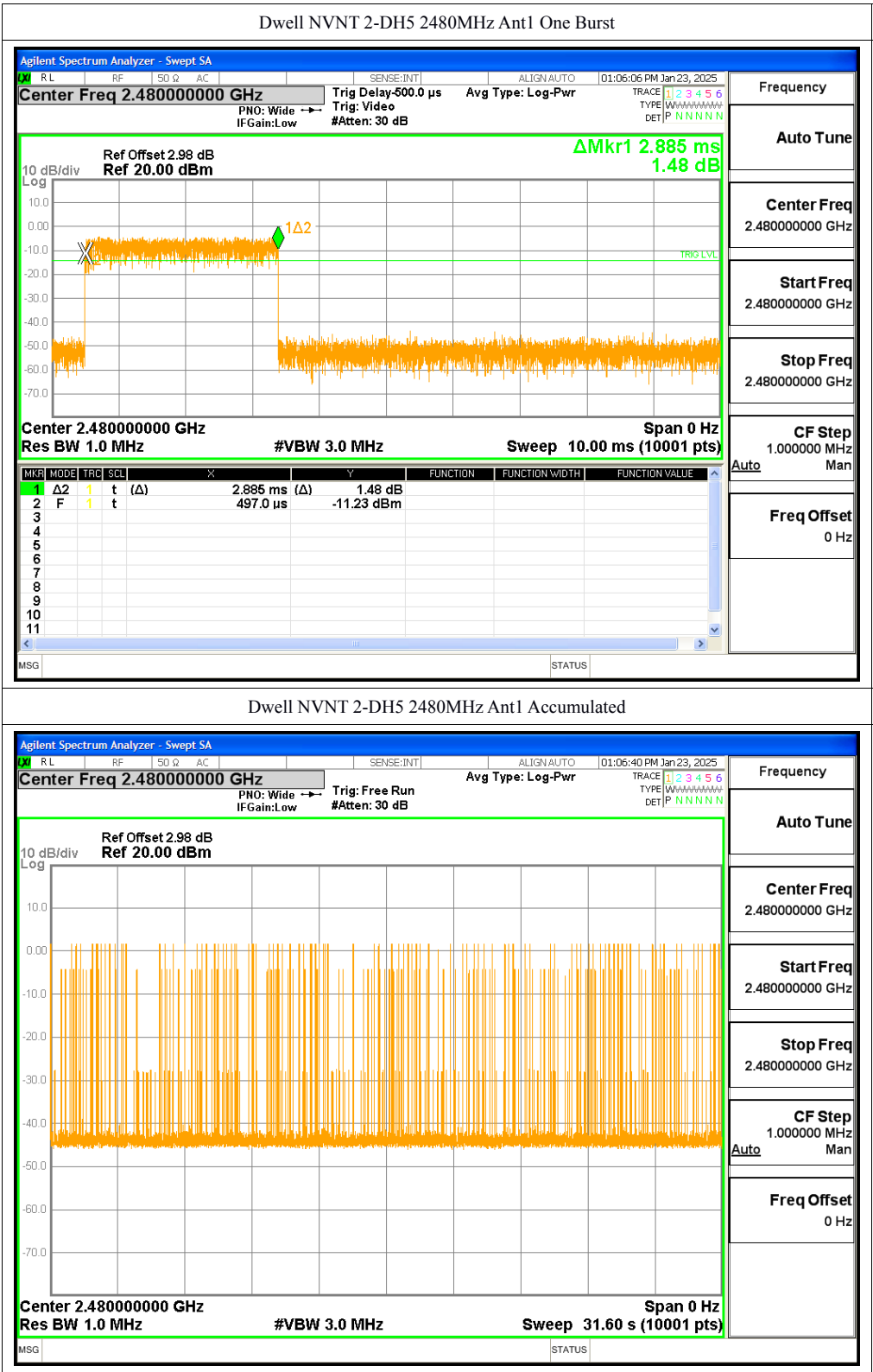
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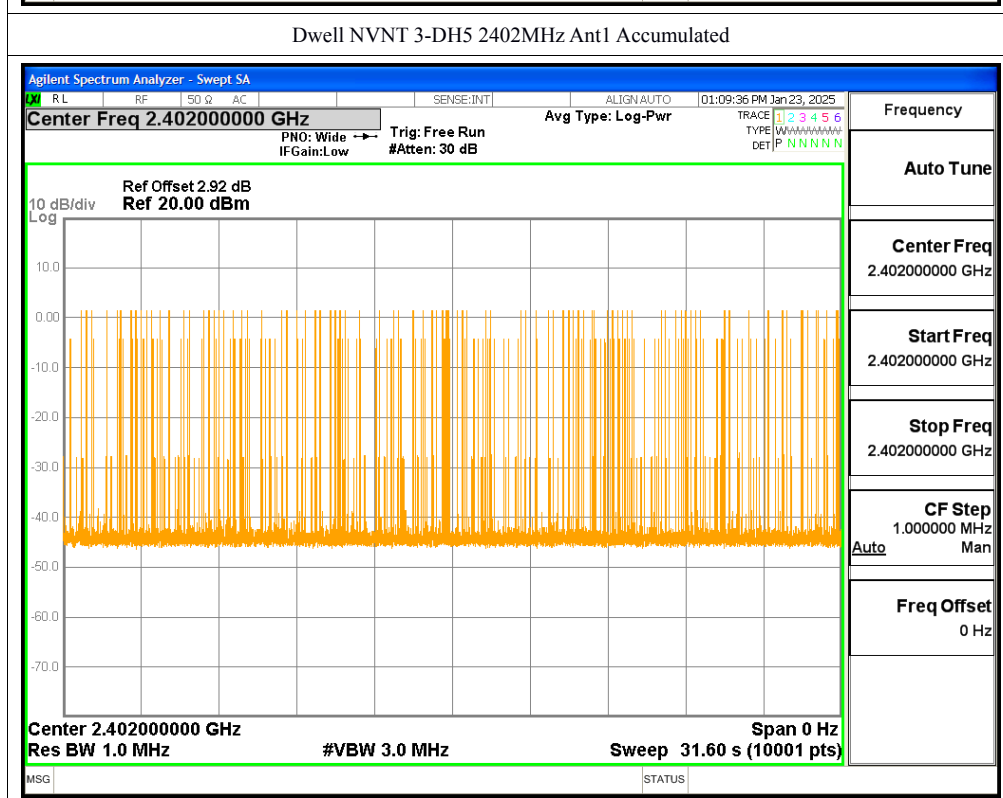
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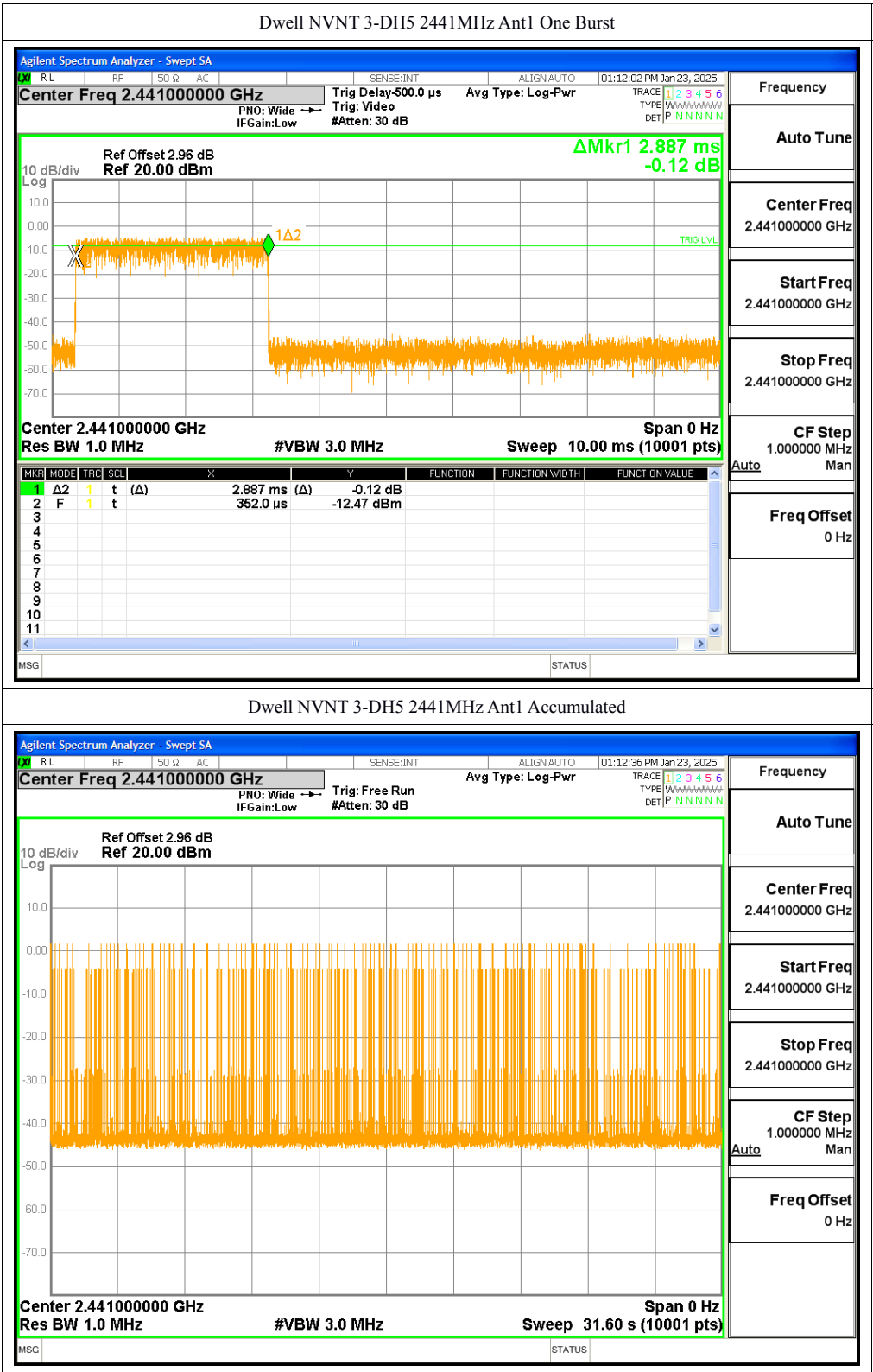
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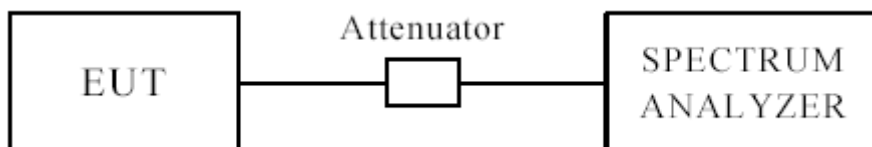
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12 Out of Band Measurement

12.1 Test Setup



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

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz 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.

12.3 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.

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

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

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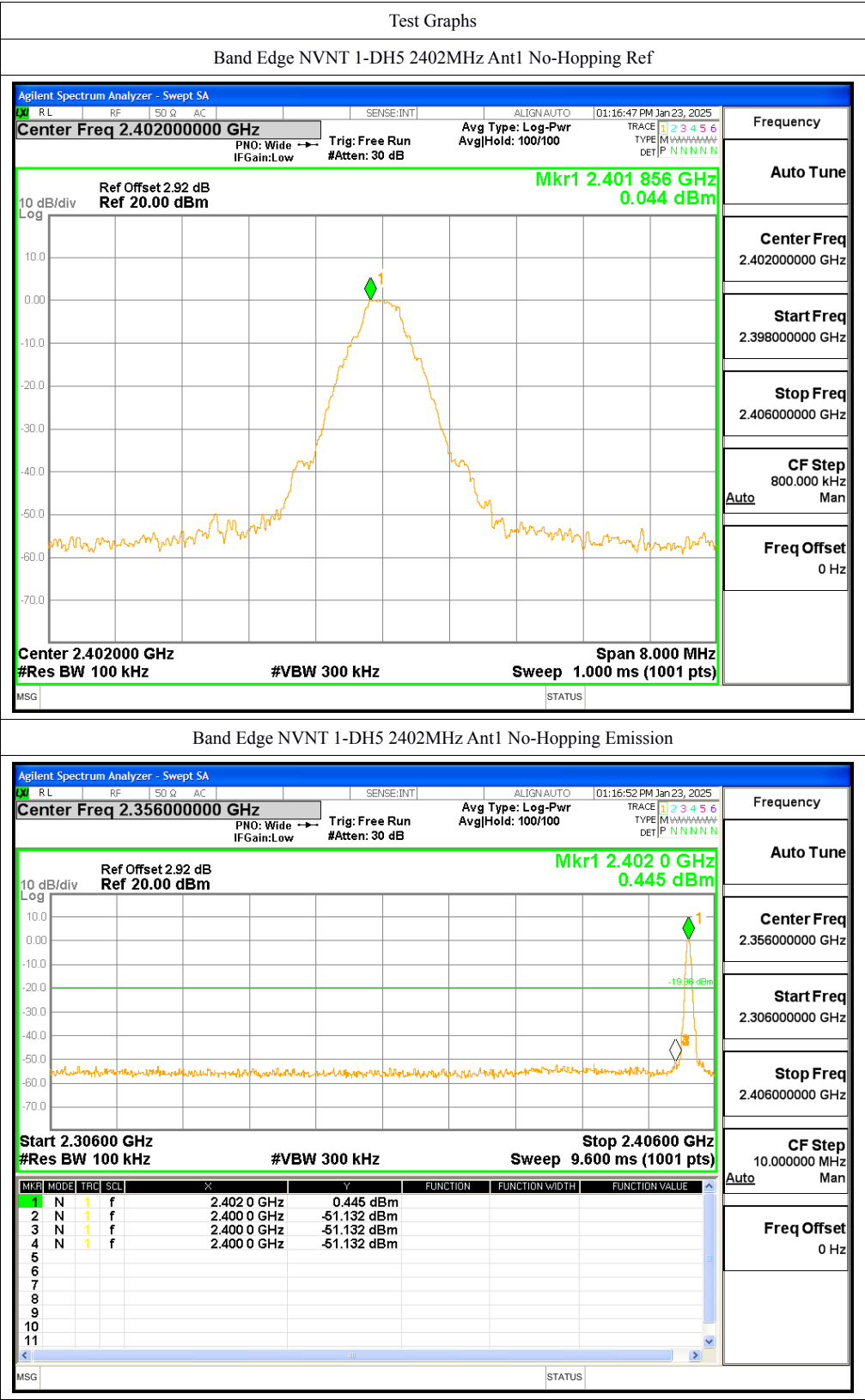
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| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | -51.17 | -20 | Pass |
| | | 2480 | | No-Hopping | -52.28 | -20 | Pass |
| | 2-DH5 | 2402 | | No-Hopping | -49.13 | -20 | Pass |
| | | 2480 | | No-Hopping | -51.22 | -20 | Pass |
| | 3-DH5 | 2402 | | No-Hopping | -50.67 | -20 | Pass |
| | | 2480 | | No-Hopping | -50.57 | -20 | Pass |

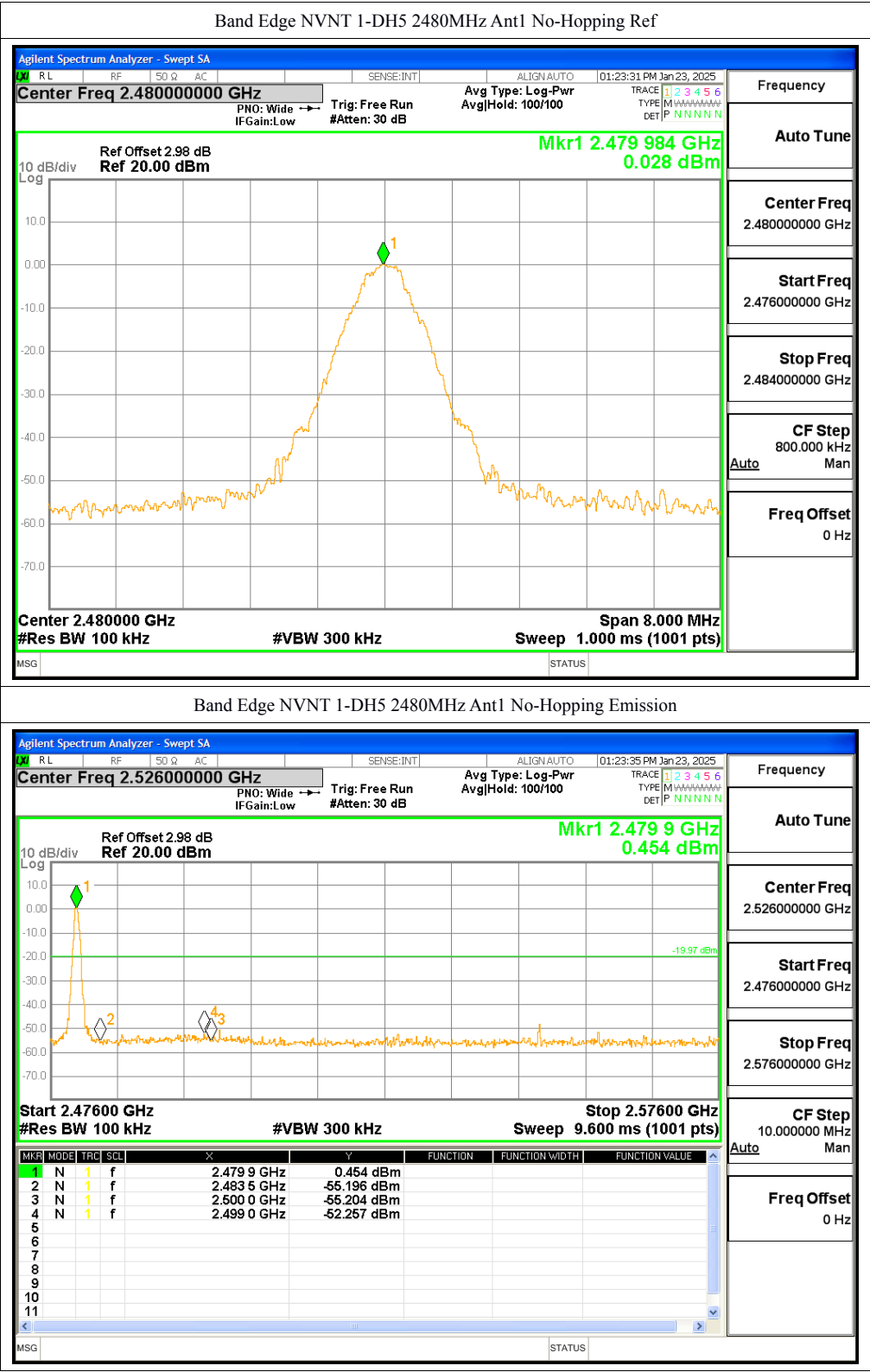
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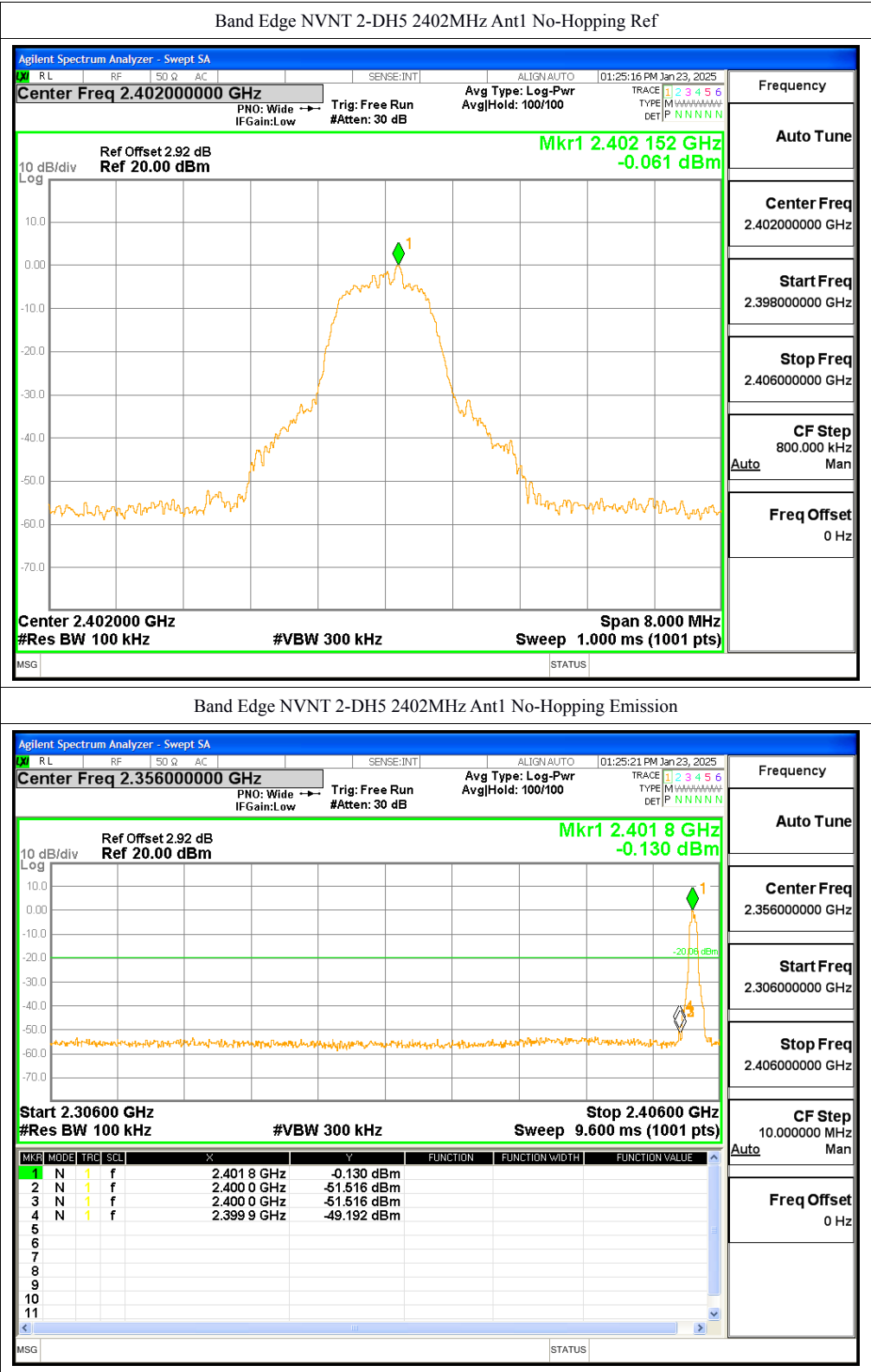
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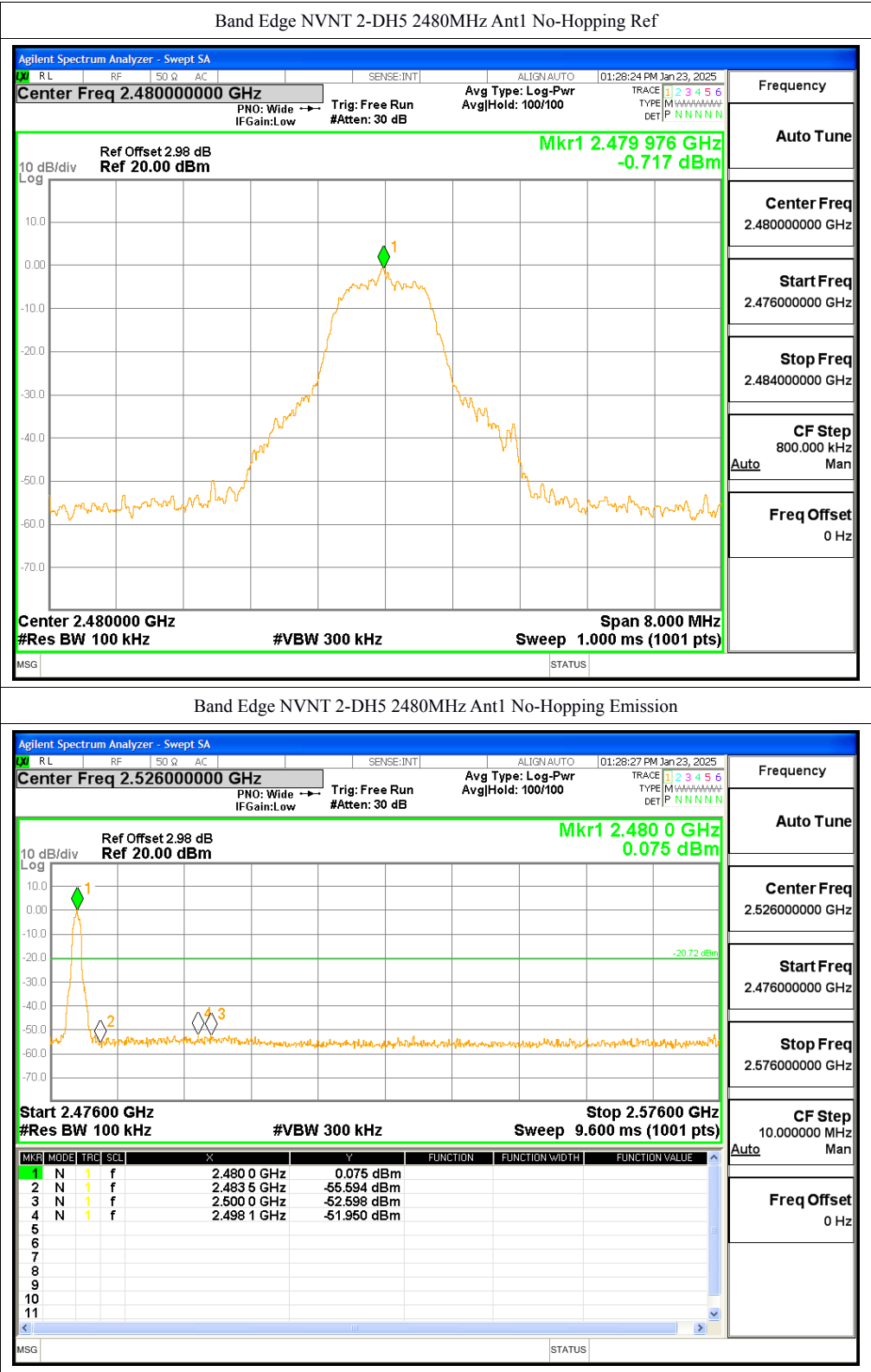
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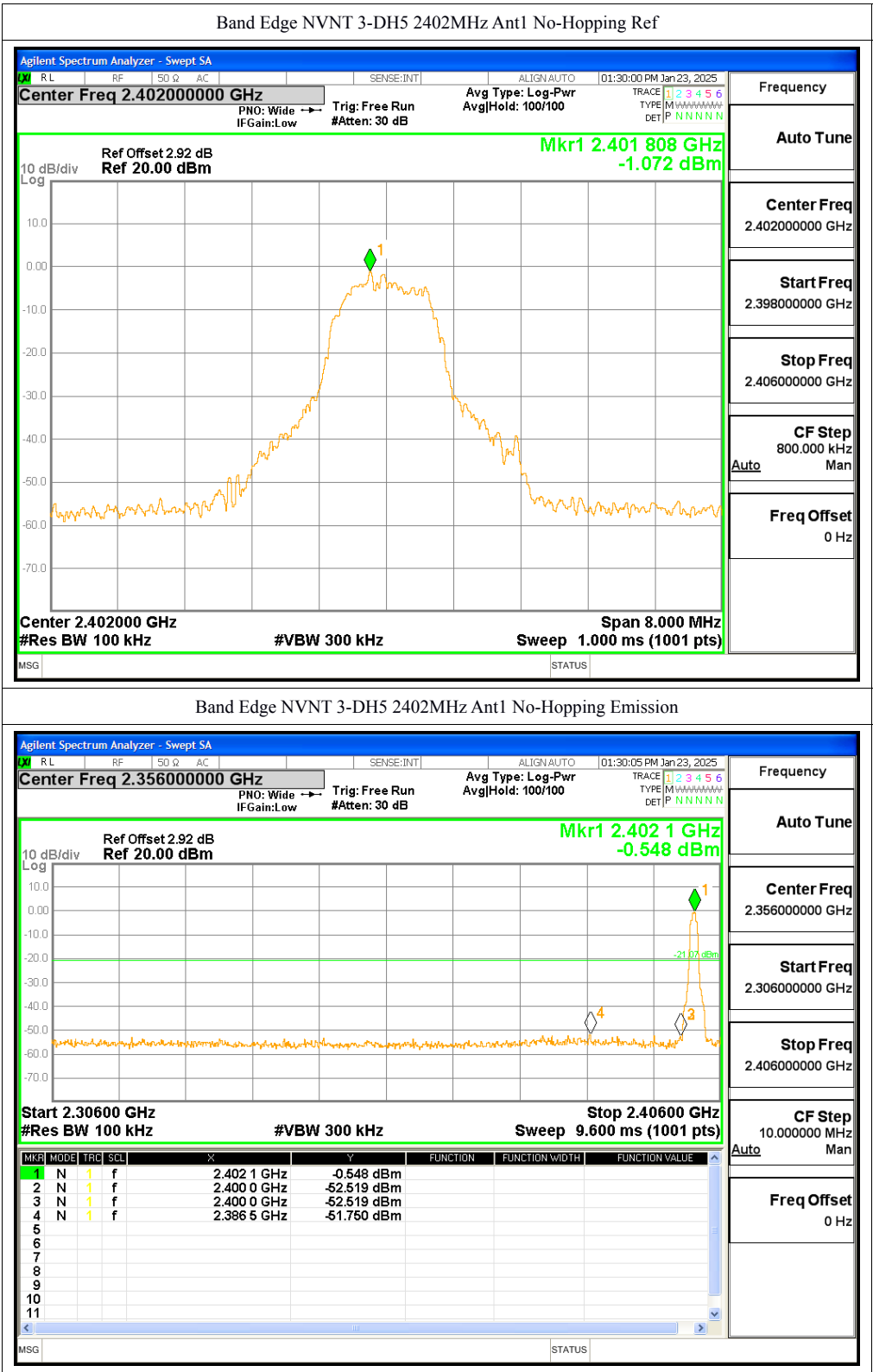
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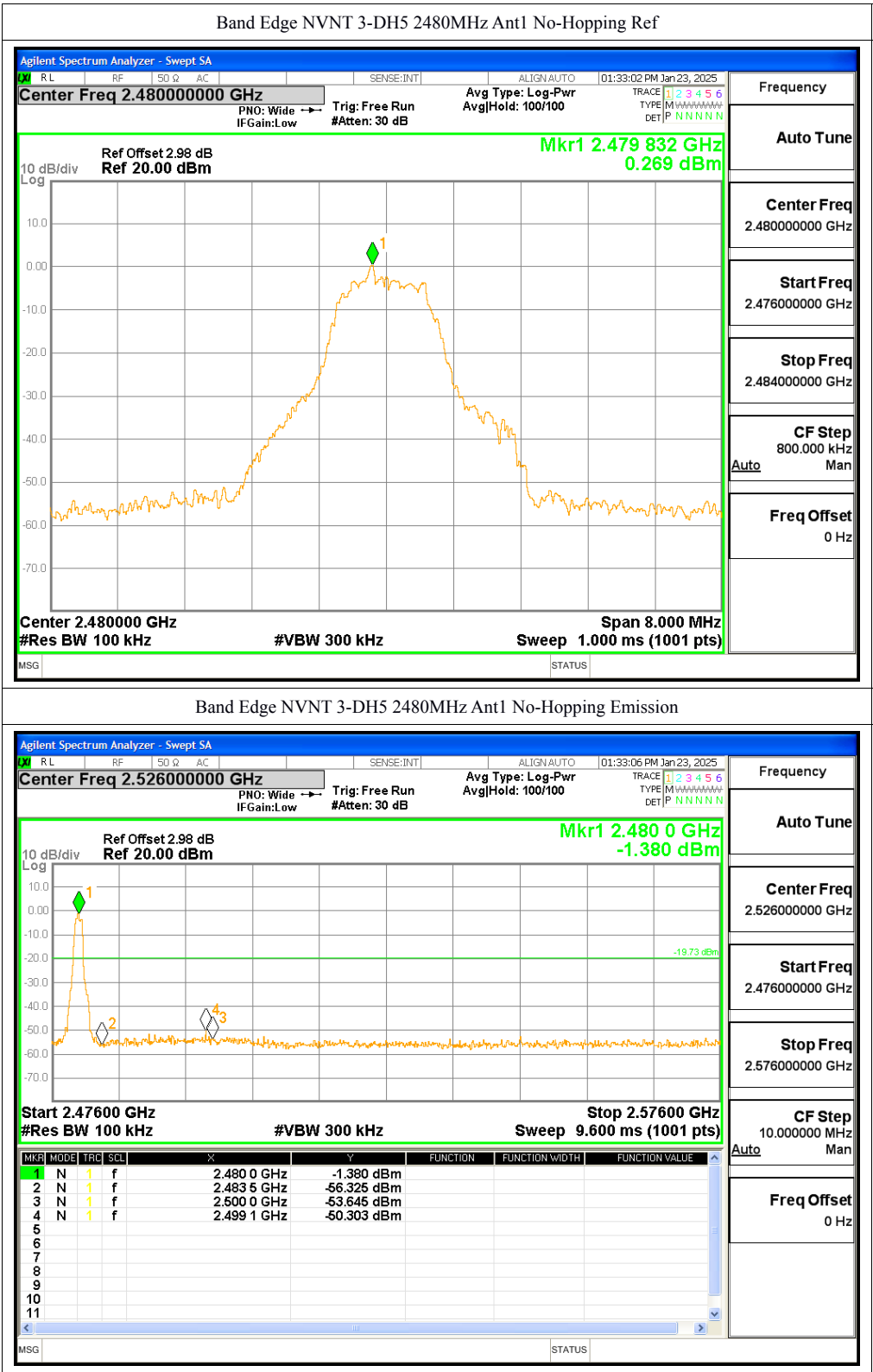
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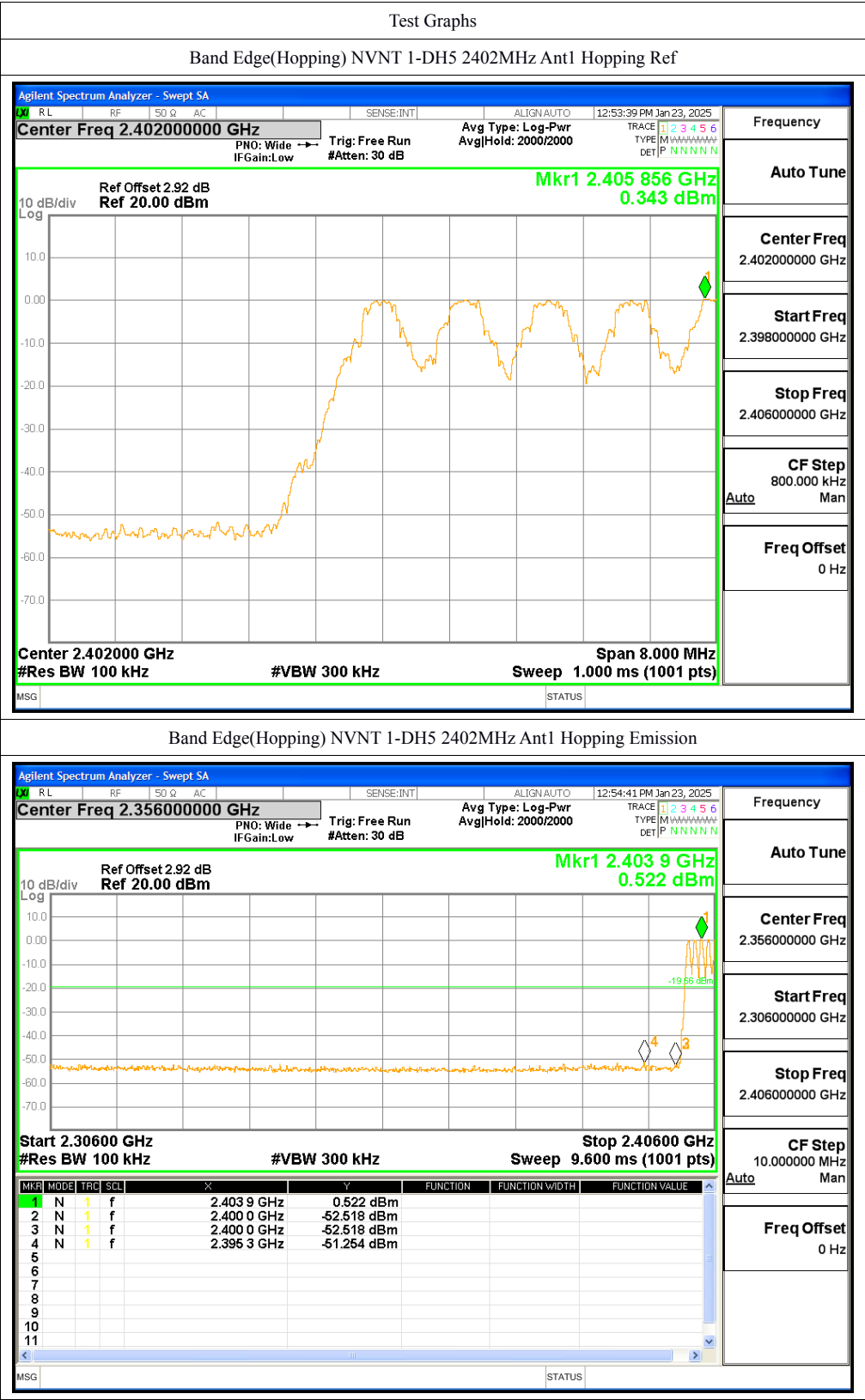
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| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | Hopping | -51.59 | -20 | Pass |
| | | 2480 | | Hopping | -51.67 | -20 | Pass |
| | 2-DH5 | 2402 | | Hopping | -49.93 | -20 | Pass |
| | | 2480 | | Hopping | -51.15 | -20 | Pass |
| | 3-DH5 | 2402 | | Hopping | -50.79 | -20 | Pass |
| | | 2480 | | Hopping | -51.58 | -20 | Pass |

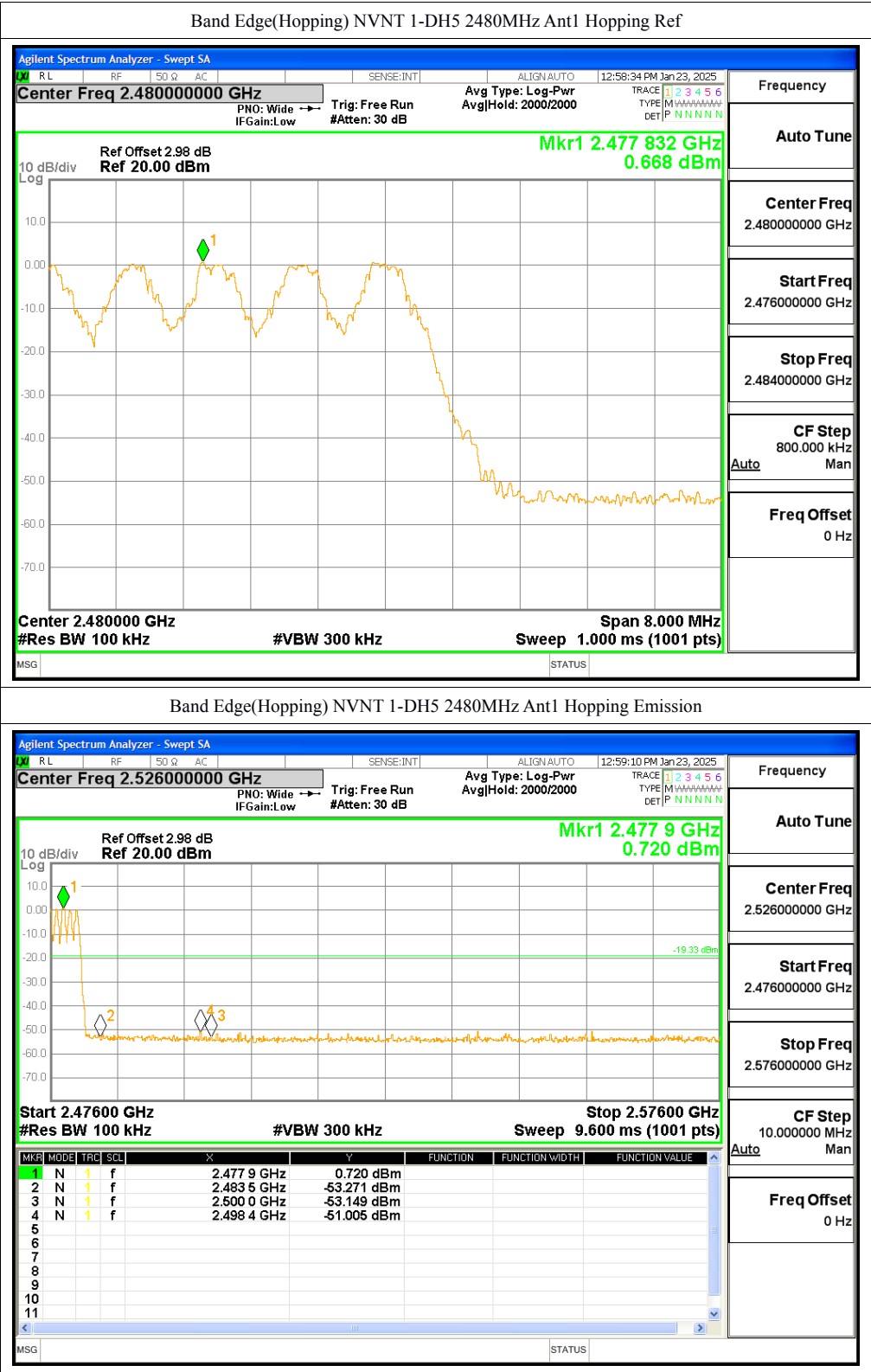
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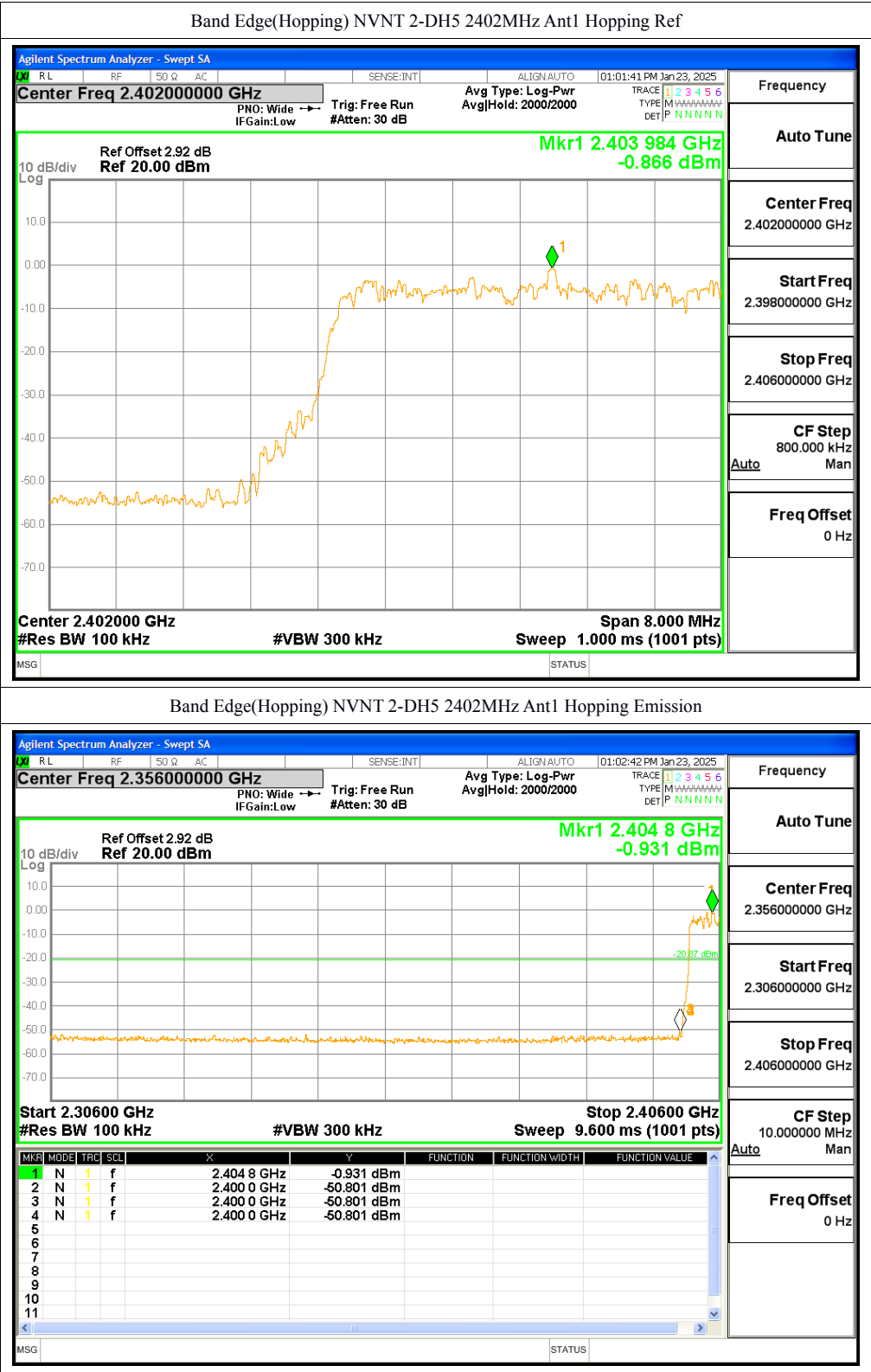
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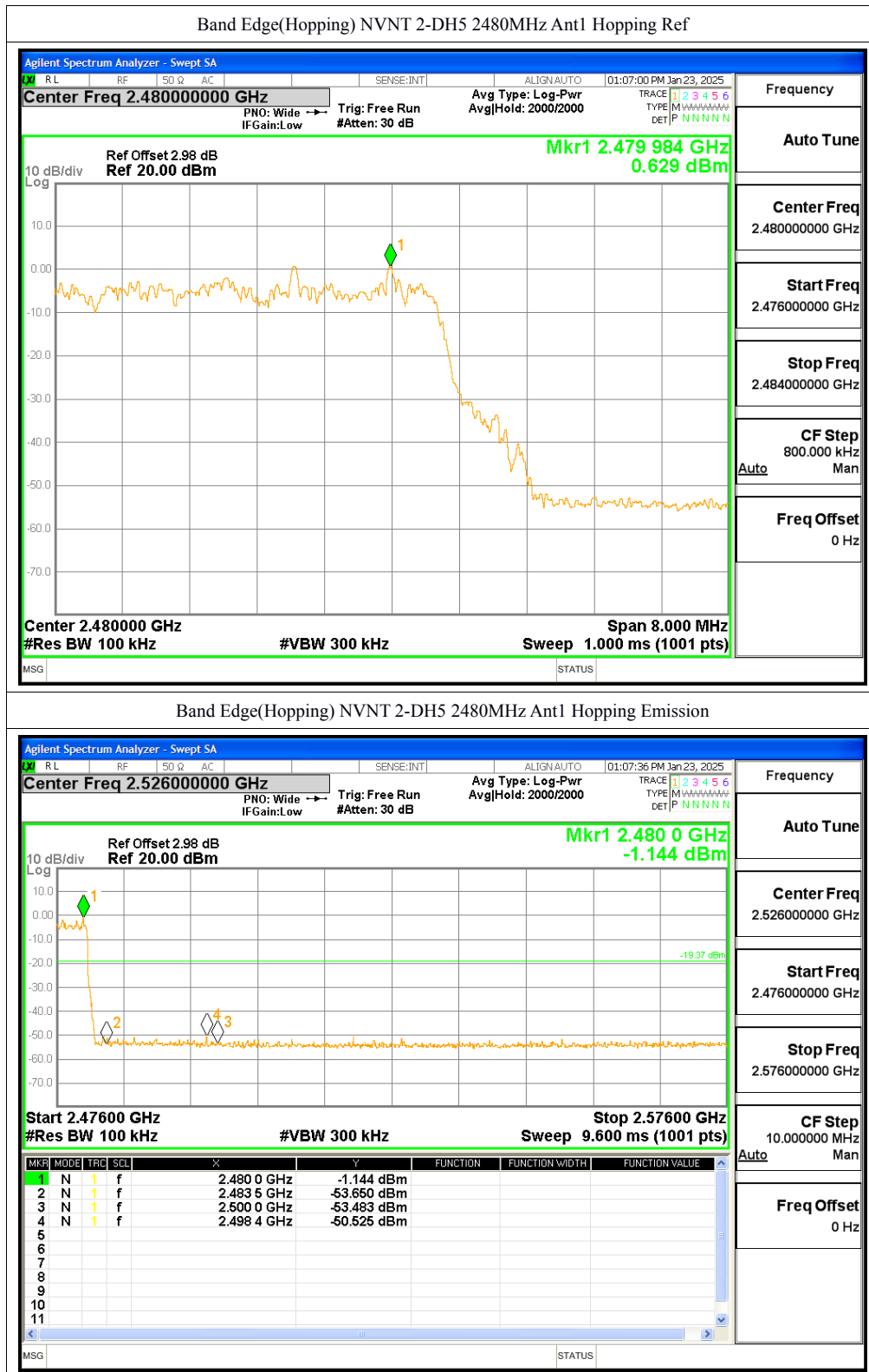
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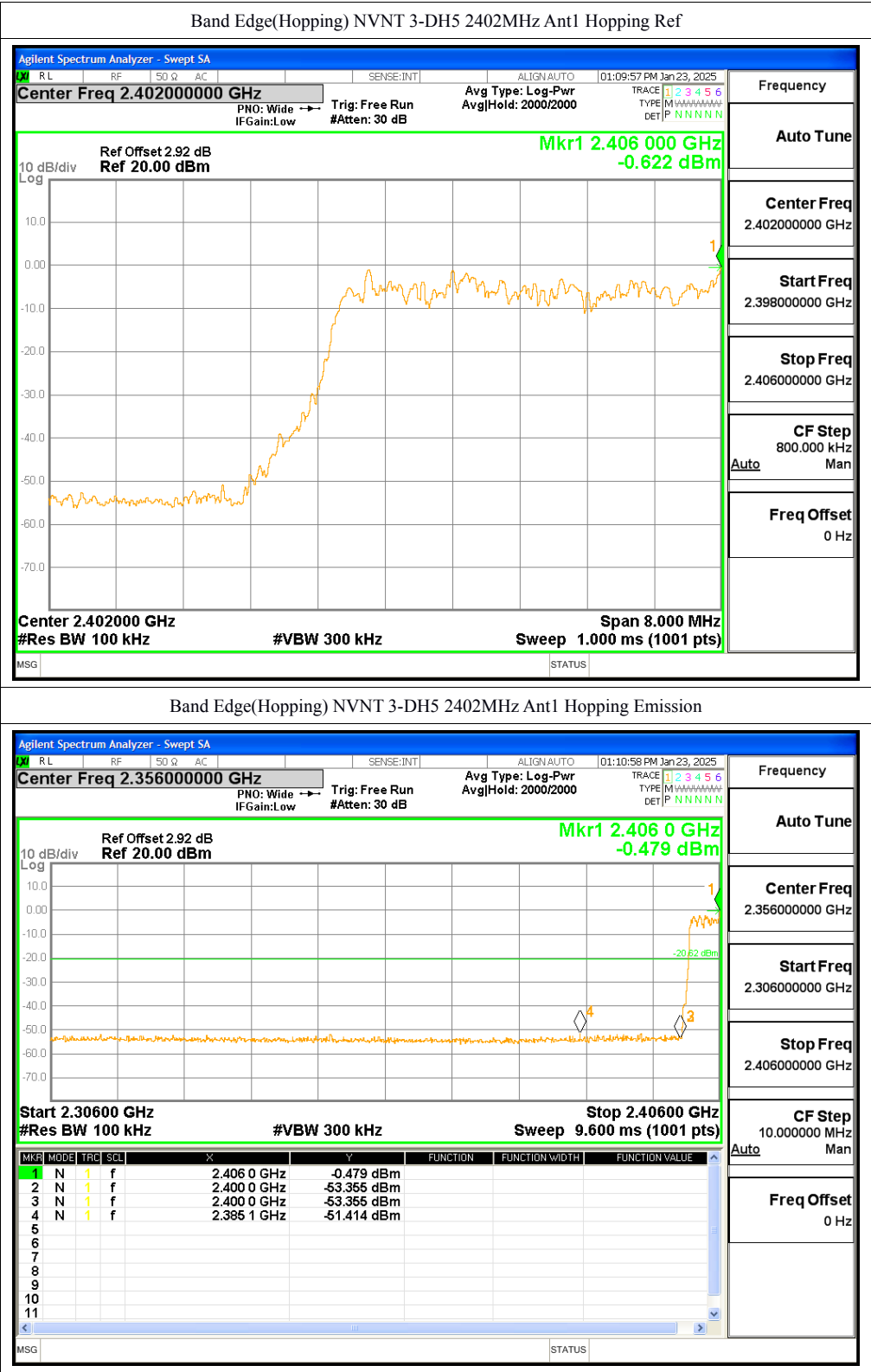
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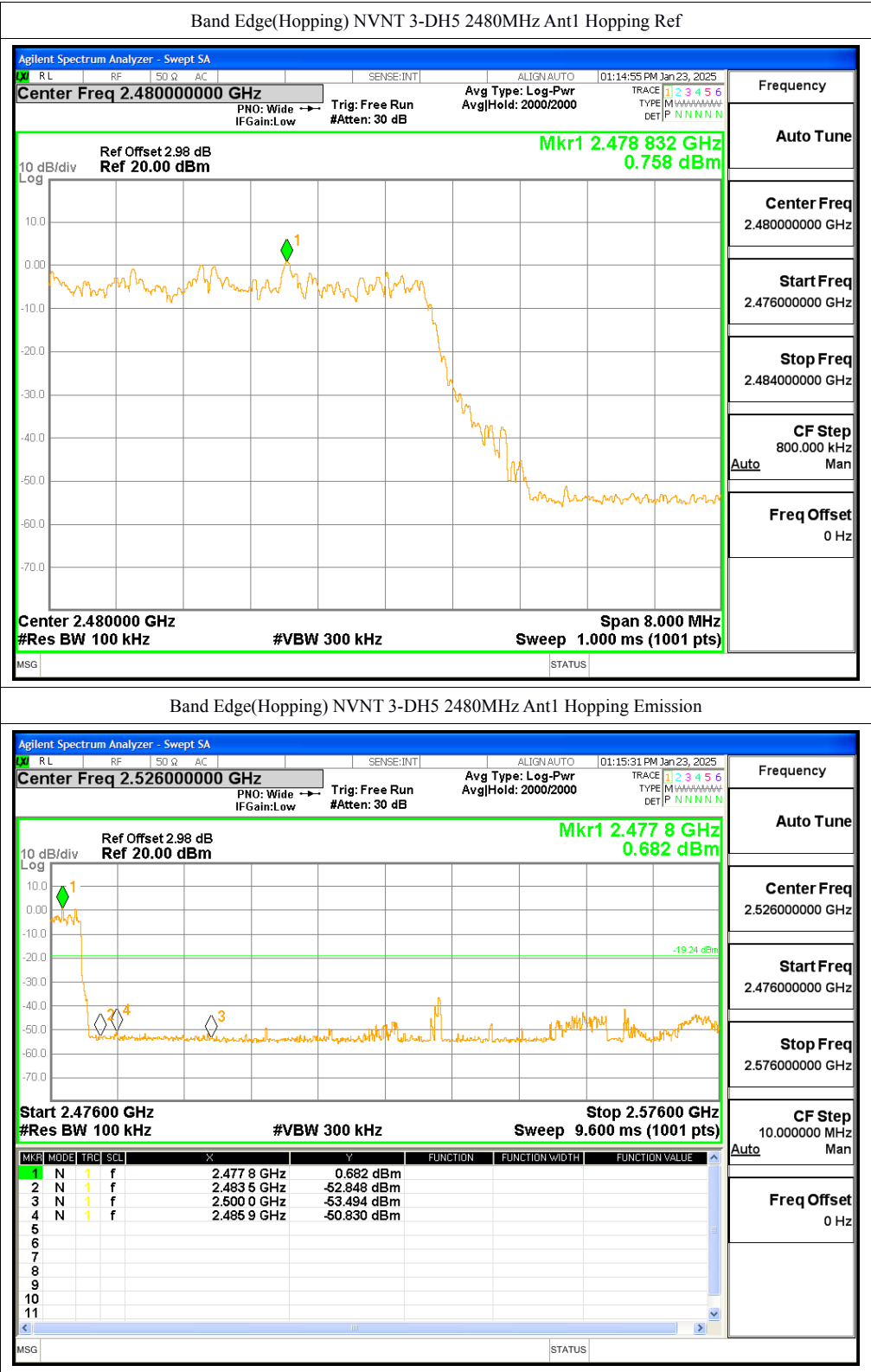
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12.5 Restricted band Measurement

| | | | | |
|-------------------------------|----------------------|-------|--------------|--------------|
| EUT | Remote Control | | Model | Agri-Pro H20 |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| GFSK, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 40.13 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| GFSK, Low Channel Vertical | | | | |
| 2390 | PK (dBμV/m) | 39.97 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

12.5 Restricted band Measurement

| | | | | |
|--------------------------------|----------------------|-------|--------------|--------------|
| EUT | Remote Control | | Model | Agri-Pro H20 |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| GFSK, High Channel, Horizontal | | | | |
| 2483.5 | PK (dBμV/m) | 49.39 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| GFSK, High Channel, Vertical | | | | |
| 2483.5 | PK (dBμV/m) | 45.06 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

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12.5 Restricted band Measurement

| | | | | |
|-----------------------------------|----------------------|-------|--------------|--------------|
| EUT | Remote Control | | Model | Agri-Pro H20 |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| П/4DQPSK, Low Channel, Horizontal | | | | |
| 2390 | PK (dBμV/m) | 40.34 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| П/4DQPSK, Low Channel Vertical | | | | |
| 2390 | PK (dBμV/m) | 39.22 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

12.5 Restricted band Measurement

| | | | | | |
|------------------------------------|----------------------|-------|-------|--------------|--------------|
| EUT | Remote Control | | | Model | Agri-Pro H20 |
| Mode | Keeping Transmitting | | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | | Humidity | 56% RH |
| Test Result: | Pass | | | Detector | PK |
| П/4DQPSK, High Channel, Horizontal | | | | | |
| 2483.5 | PK (dBμV/m) | 50.69 | Limit | 74(dBμV/m) | |
| | AV (dBμV/m) | -- | | 54(dBμV/m) | |
| П/4DQPSK, High Channel, Vertical | | | | | |
| 2483.5 | PK (dBμV/m) | 46.68 | Limit | 74(dBμV/m) | |
| | AV (dBμV/m) | -- | | 54(dBμV/m) | |

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12.5 Restricted band Measurement

| | | | | | |
|--------------------------------|----------------------|-------|-------|--------------|--------------|
| EUT | Remote Control | | | Model | Agri-Pro H20 |
| Mode | Keeping Transmitting | | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | | Humidity | 56% RH |
| Test Result: | Pass | | | Detector | PK |
| 8DPSK, Low Channel, Horizontal | | | | | |
| 2390 | PK (dBμV/m) | 40.42 | Limit | 74(dBμV/m) | |
| | AV (dBμV/m) | -- | | 54(dBμV/m) | |
| π/4DQPSK, Low Channel Vertical | | | | | |
| 2390 | PK (dBμV/m) | 39.94 | Limit | 74(dBμV/m) | |
| | AV (dBμV/m) | -- | | 54(dBμV/m) | |

12.5 Restricted band Measurement

| | | | | | |
|----------------------------------|----------------------|-------|-------|--------------|--------------|
| EUT | Remote Control | | | Model | Agri-Pro H20 |
| Mode | Keeping Transmitting | | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | | Humidity | 56% RH |
| Test Result: | Pass | | | Detector | PK |
| 8DPSK, High Channel, Horizontal | | | | | |
| 2483.5 | PK (dBμV/m) | 51.37 | Limit | 74(dBμV/m) | |
| | AV (dBμV/m) | -- | | 54(dBμV/m) | |
| π/4DQPSK, High Channel, Vertical | | | | | |
| 2483.5 | PK (dBμV/m) | 48.71 | Limit | 74(dBμV/m) | |
| | AV (dBμV/m) | -- | | 54(dBμV/m) | |

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13.0 Antenna Requirement

13.1 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 amount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

FPC antenna used. The gain of the antennas is 4.54dBi (Get from the antenna specification provided the manufacturer)

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14.0 FCC ID Label

FCC ID: 2BM3J-H20

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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15.0 Photo of testing

Conducted Emission Test Setup:



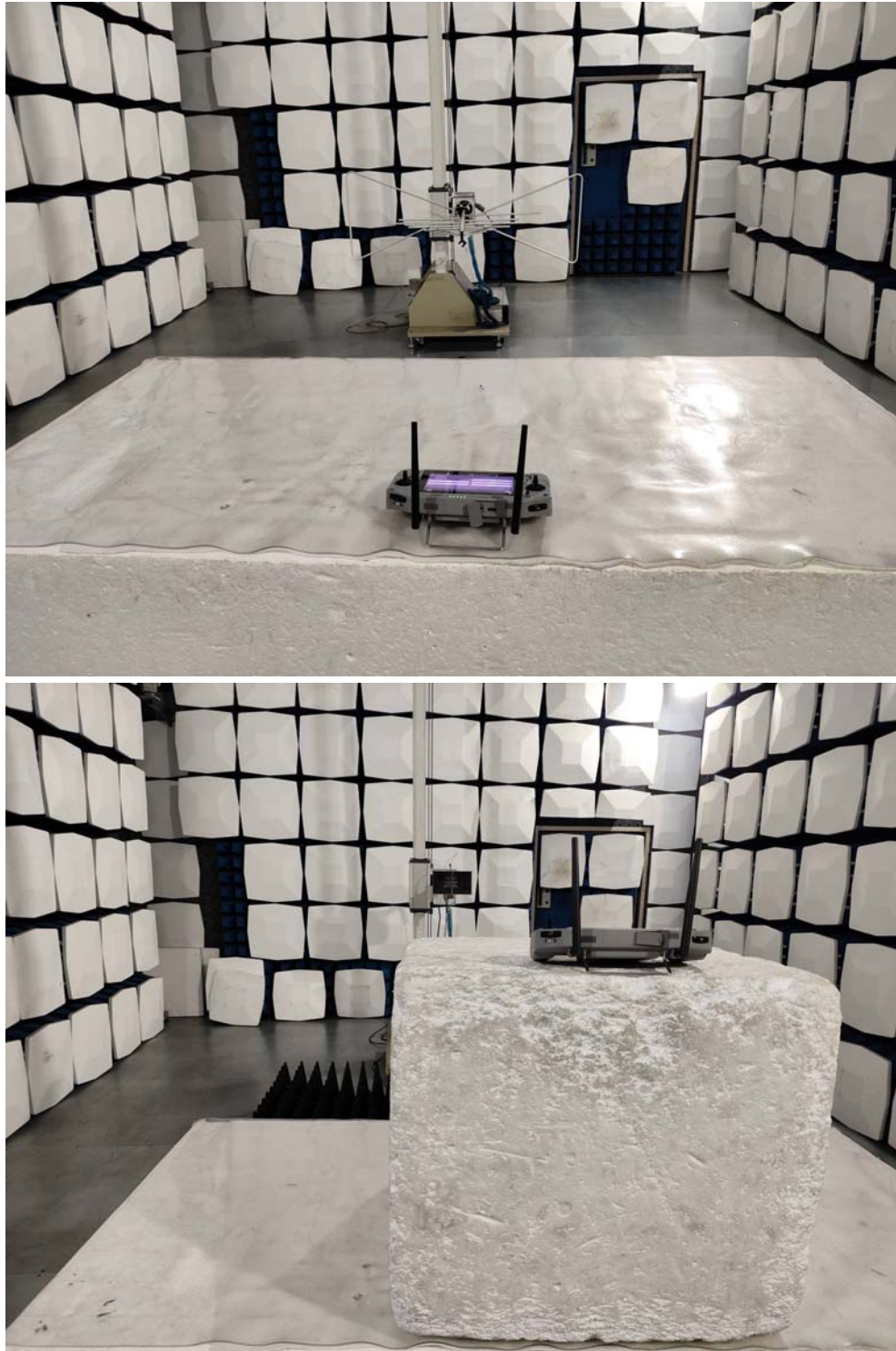
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Radiated Emission Test Setup:



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Photographs – EUT



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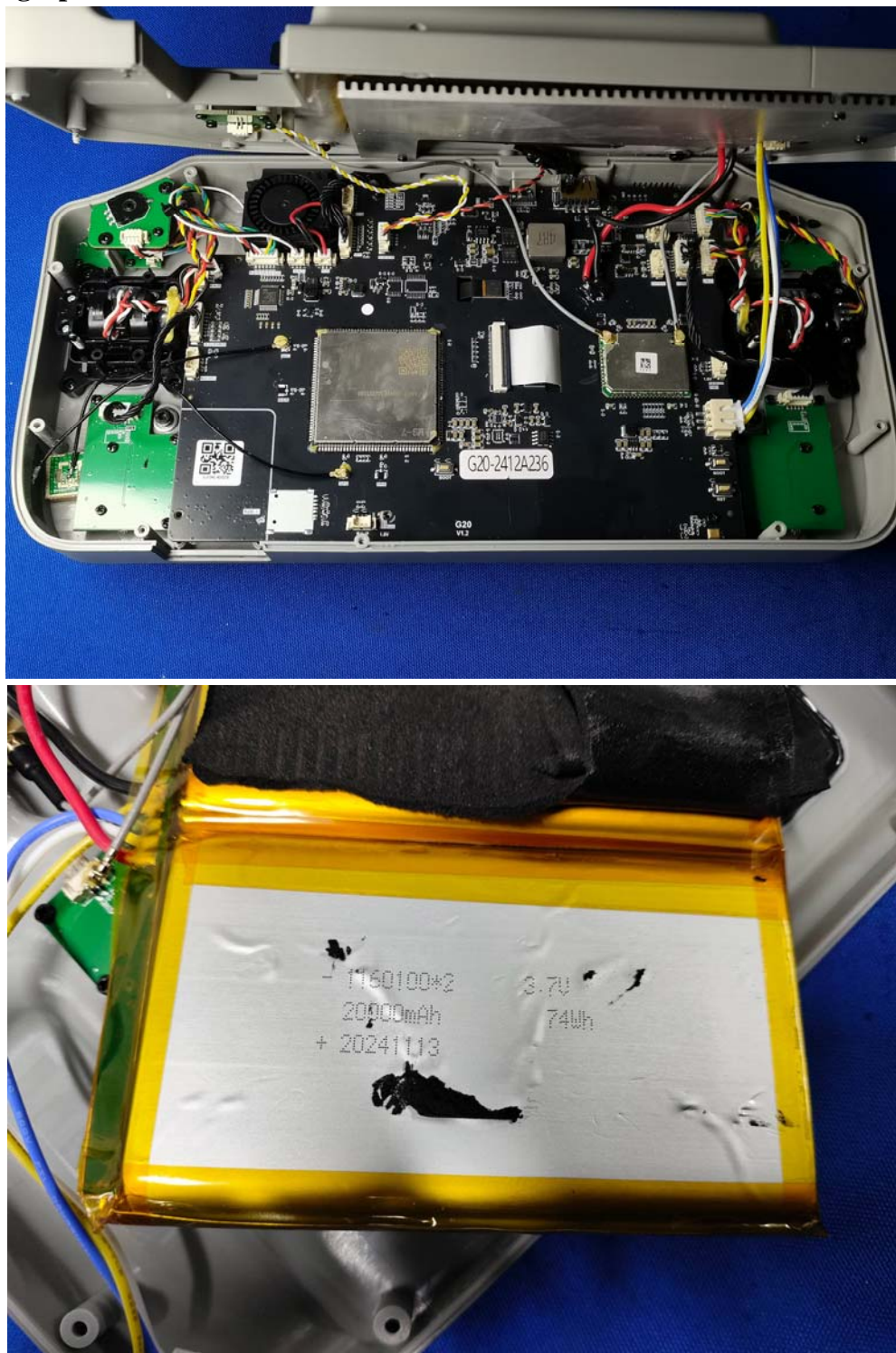
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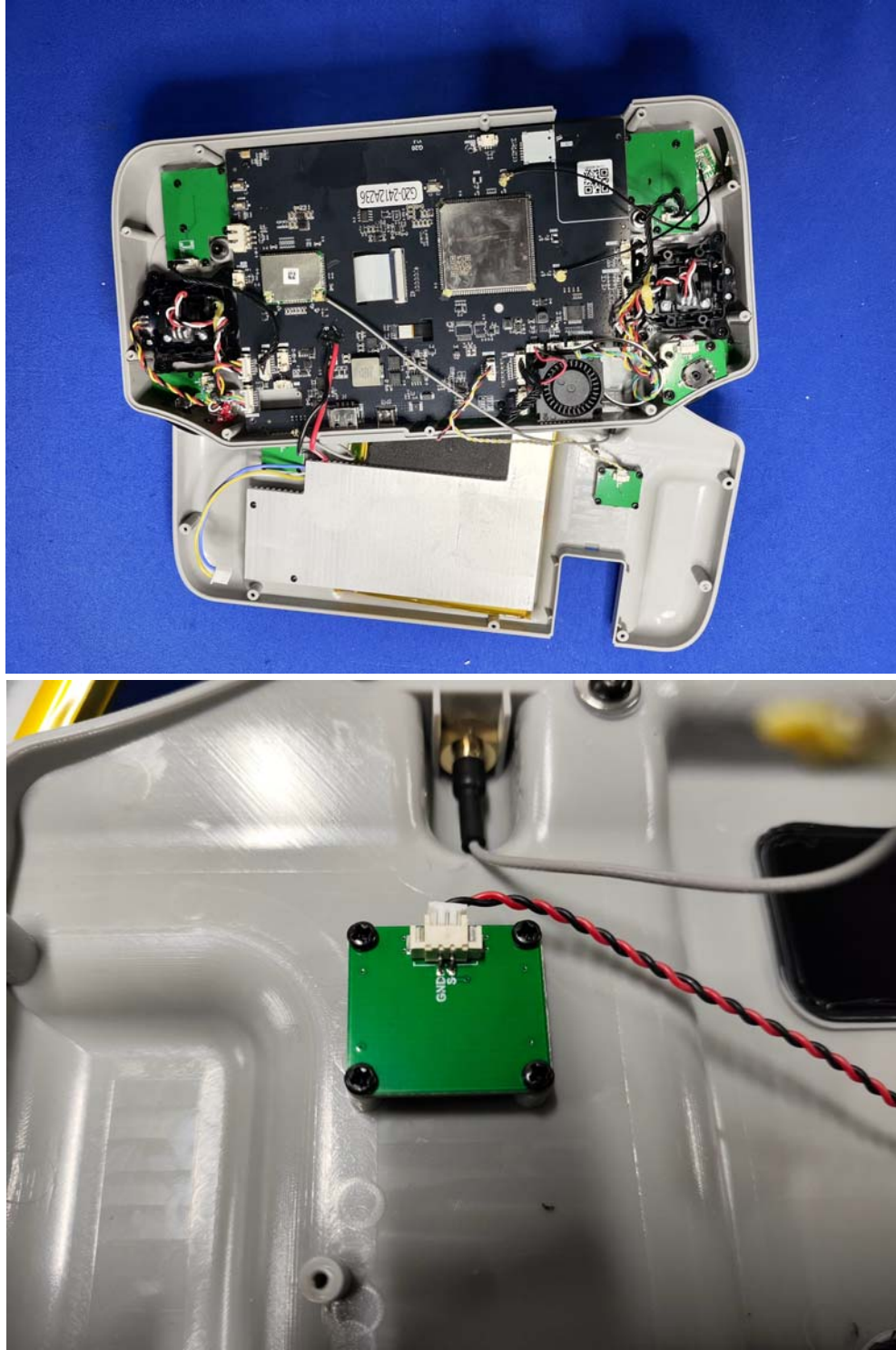
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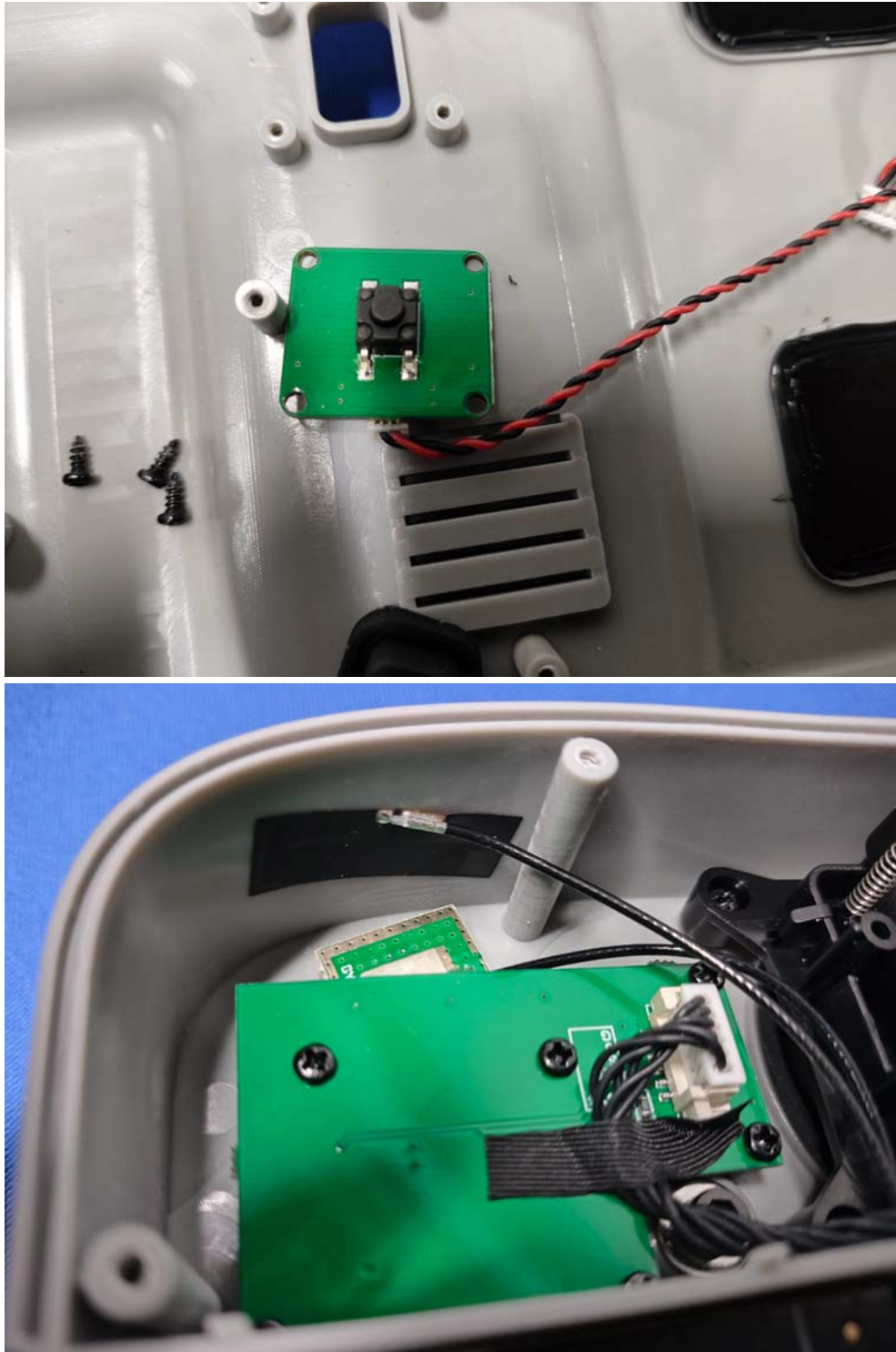
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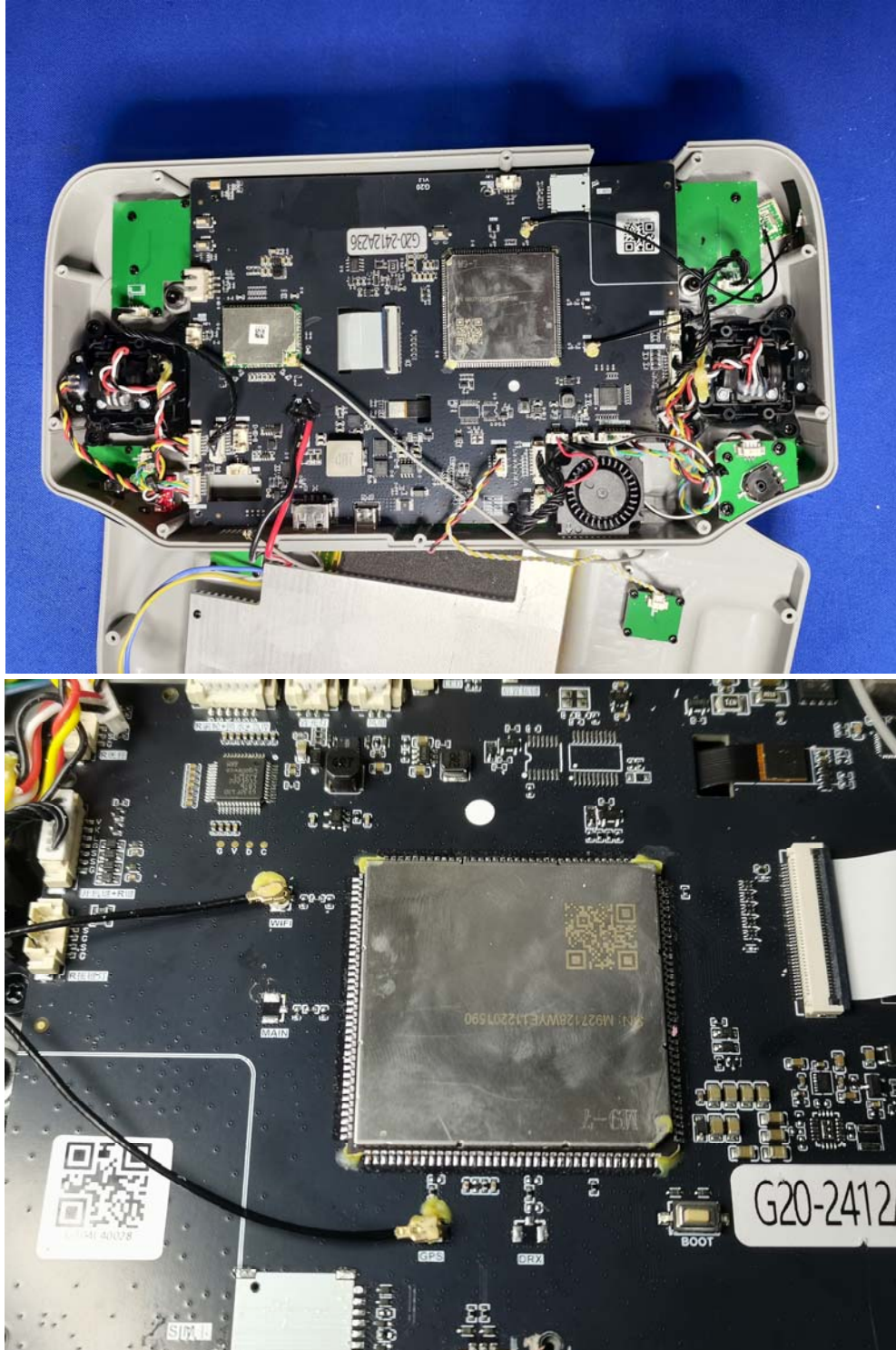
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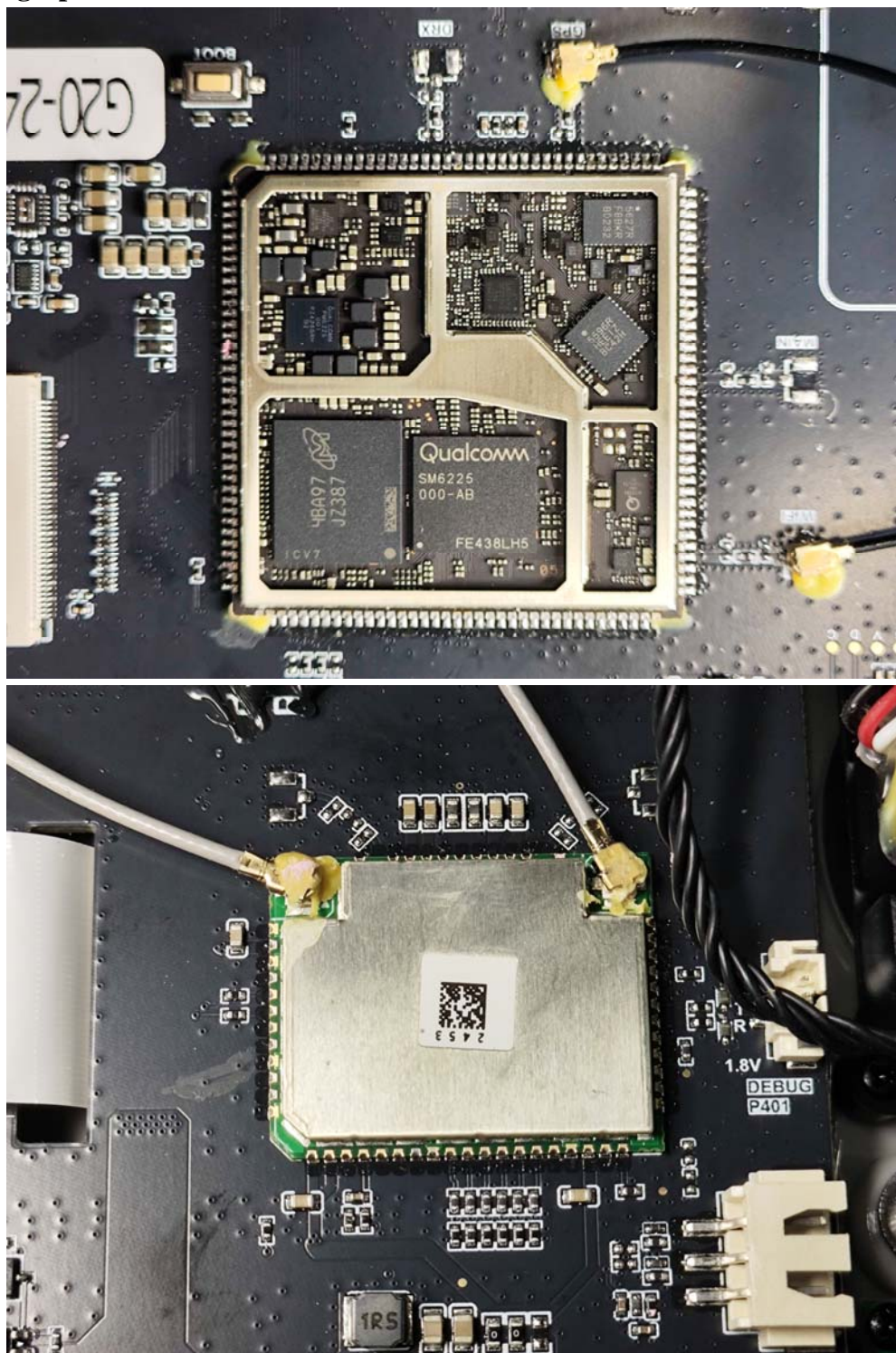
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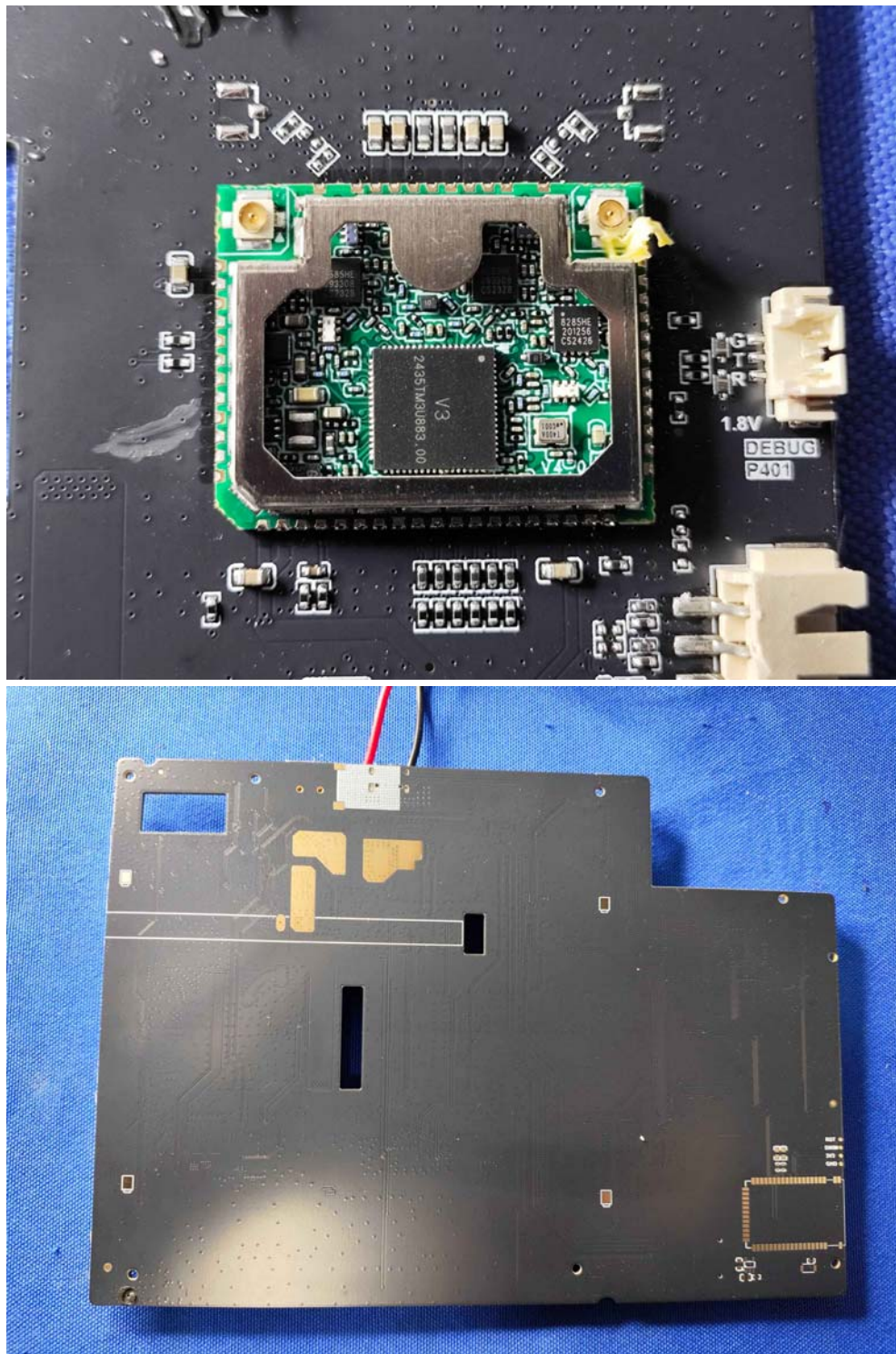
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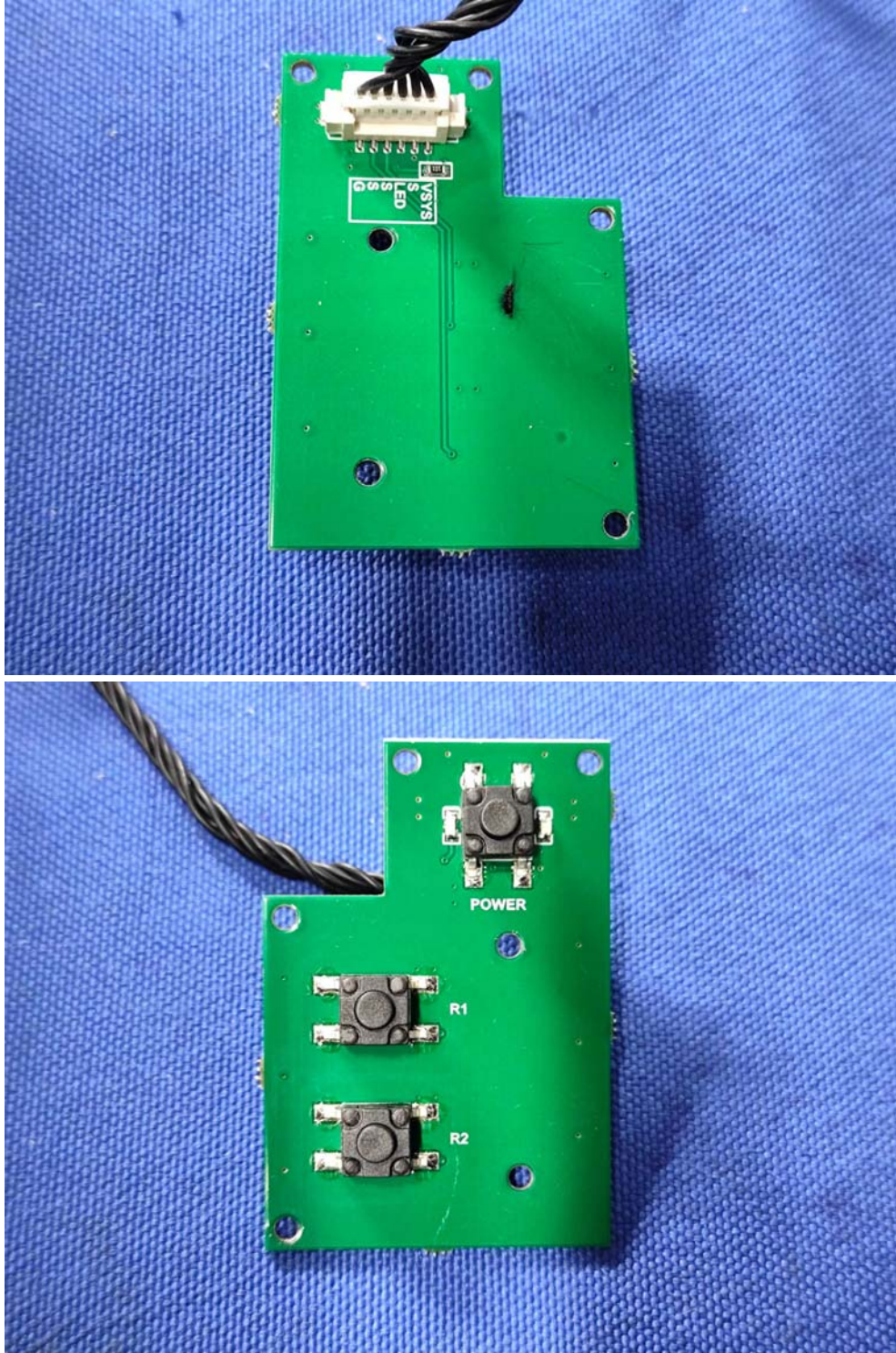
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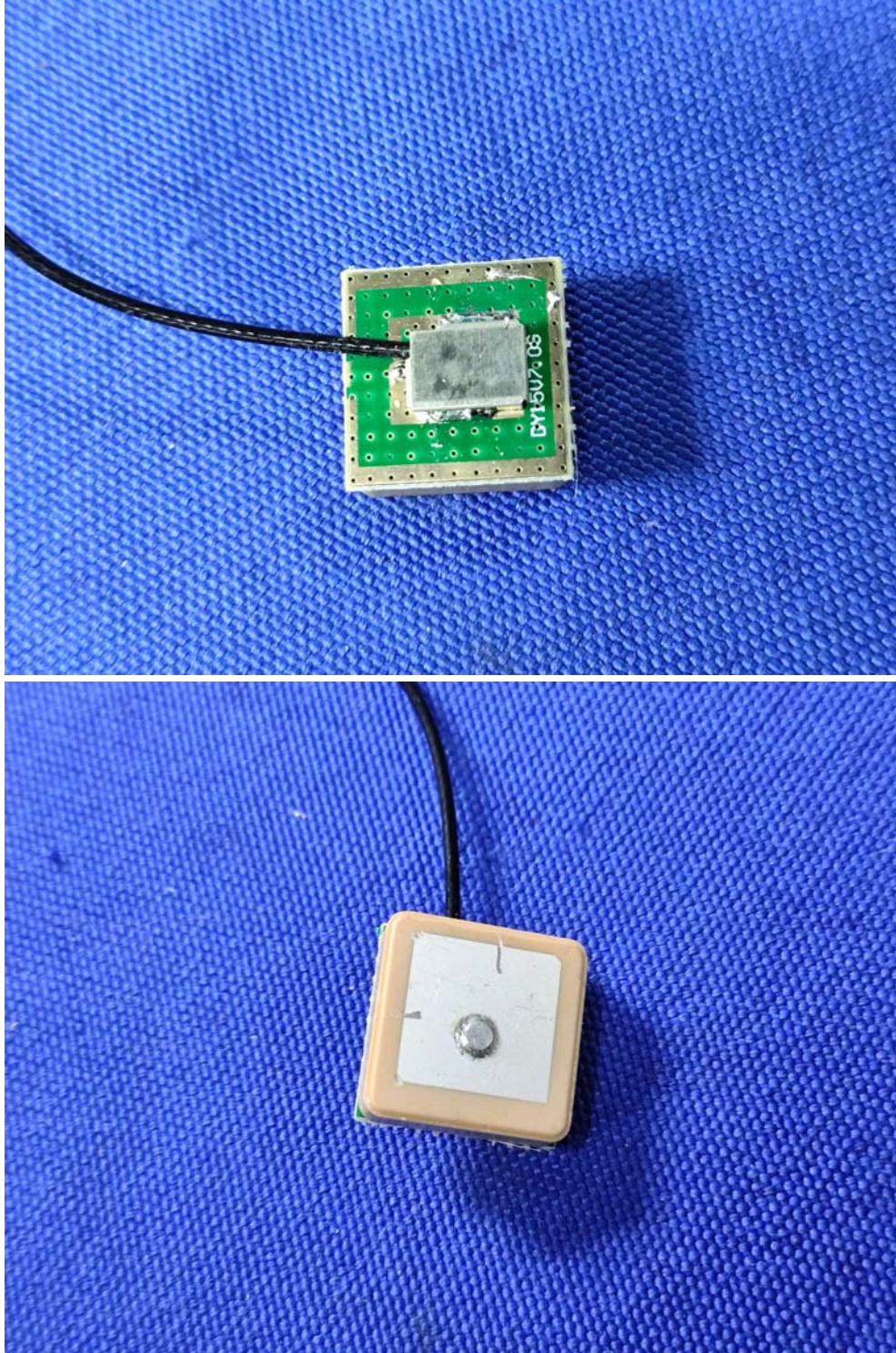
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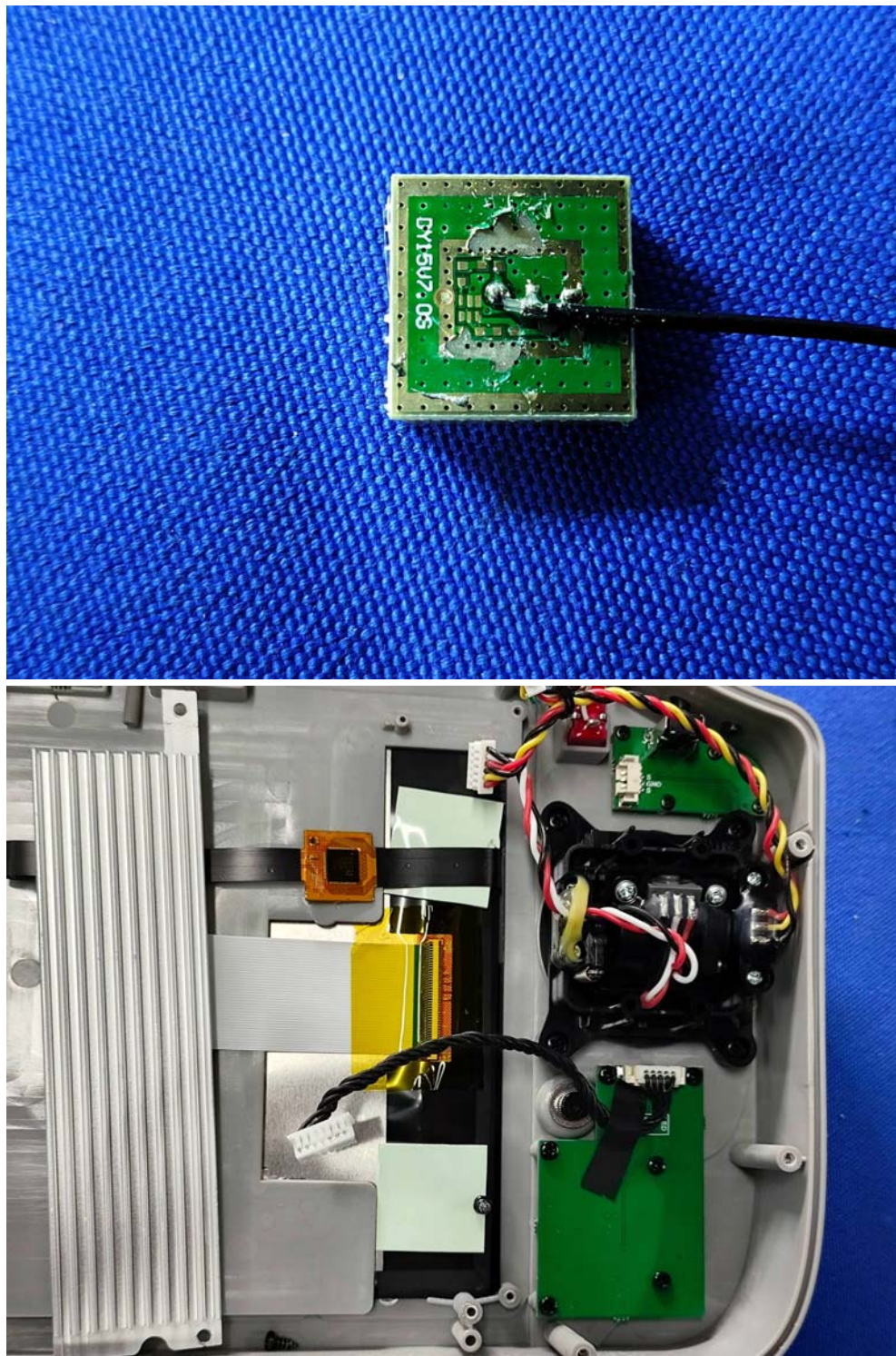
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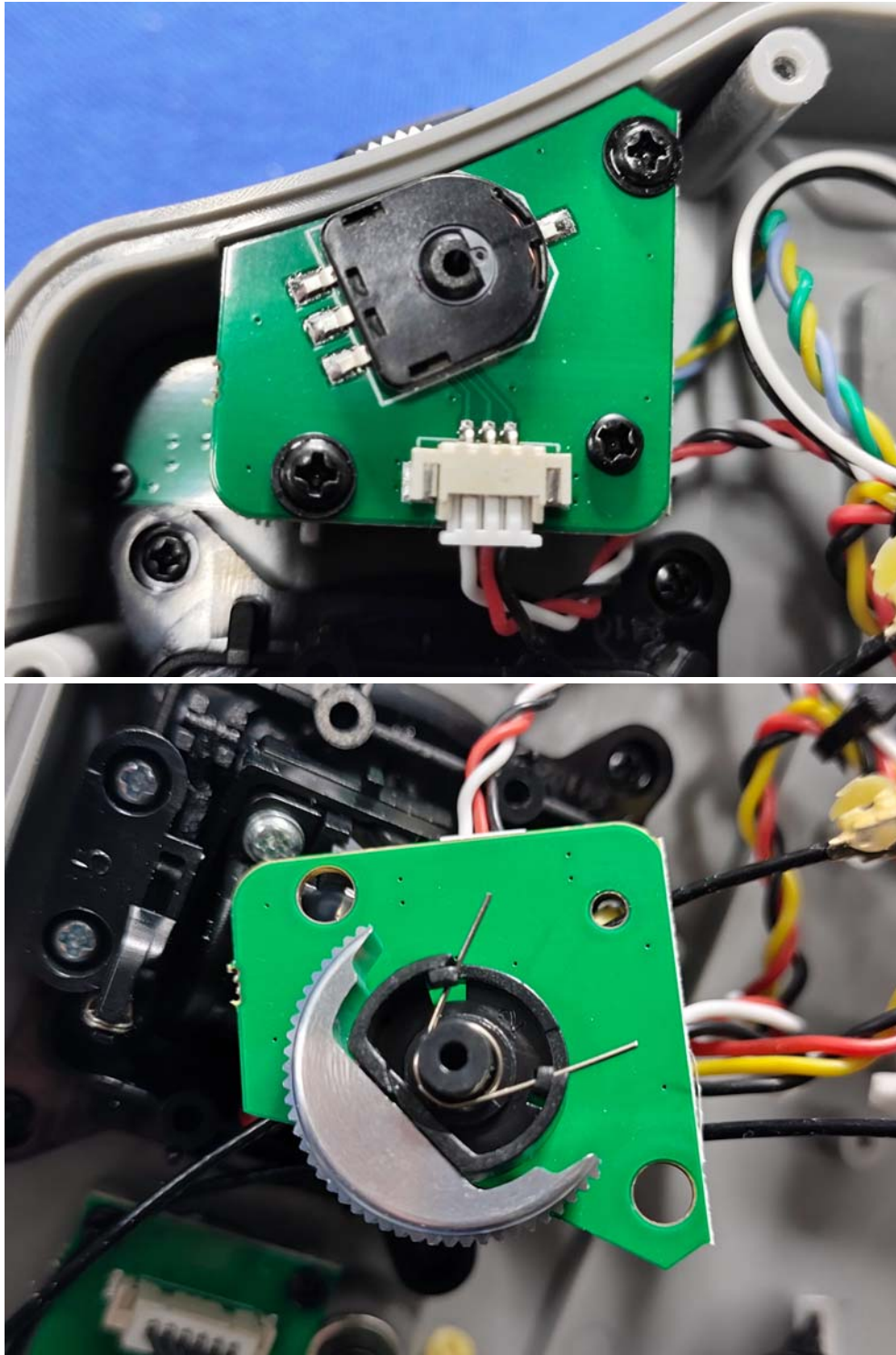
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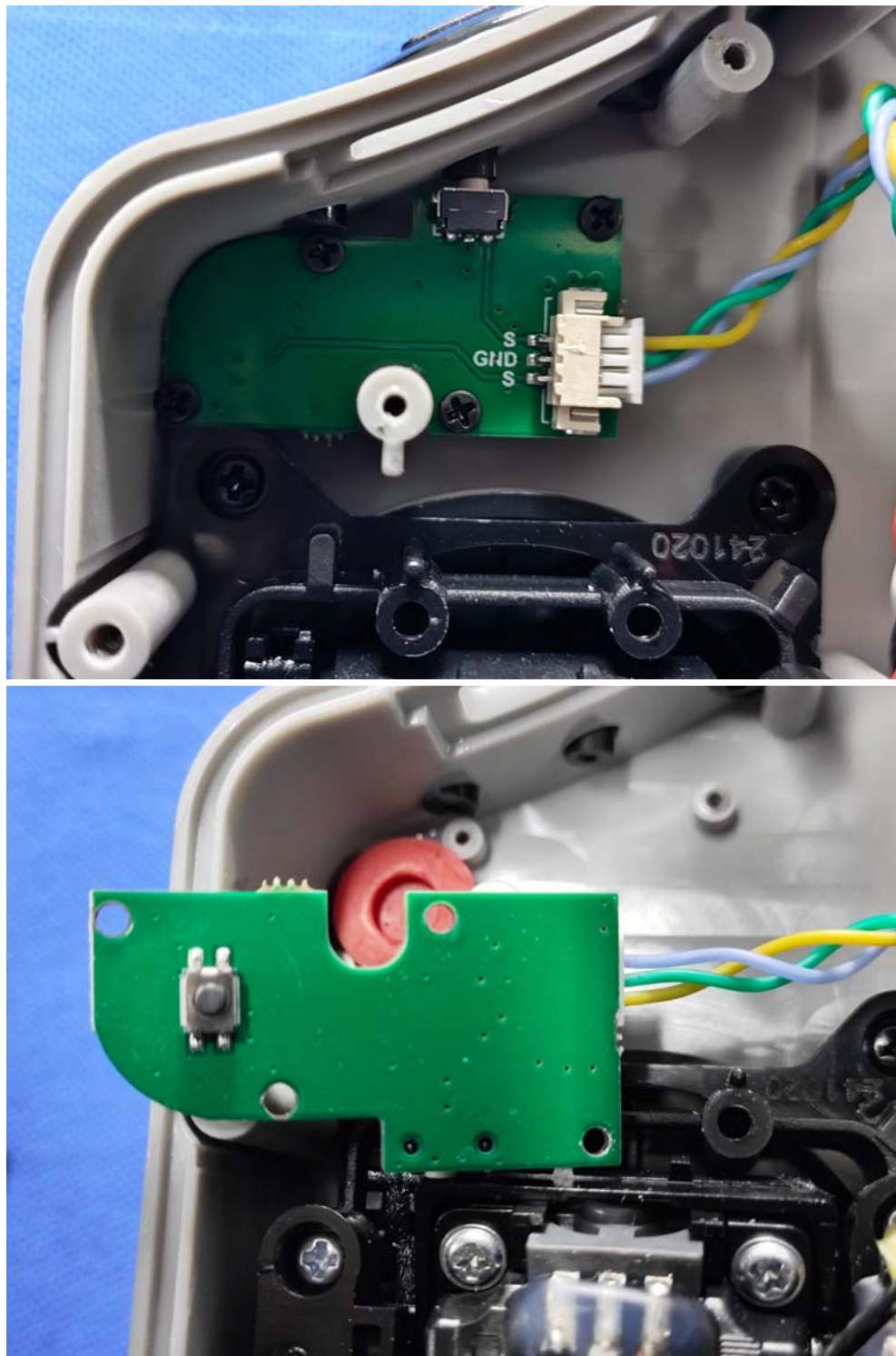
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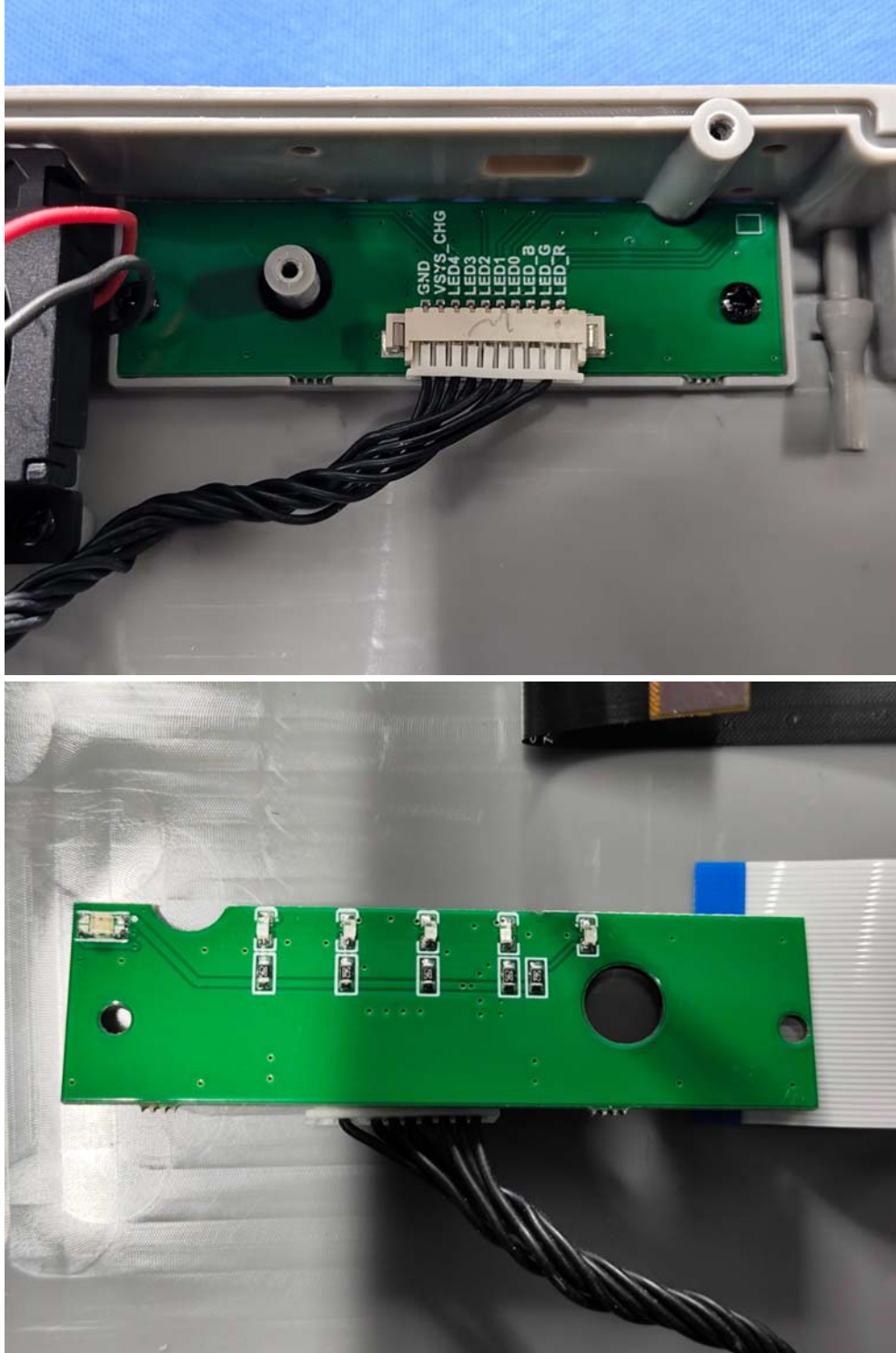
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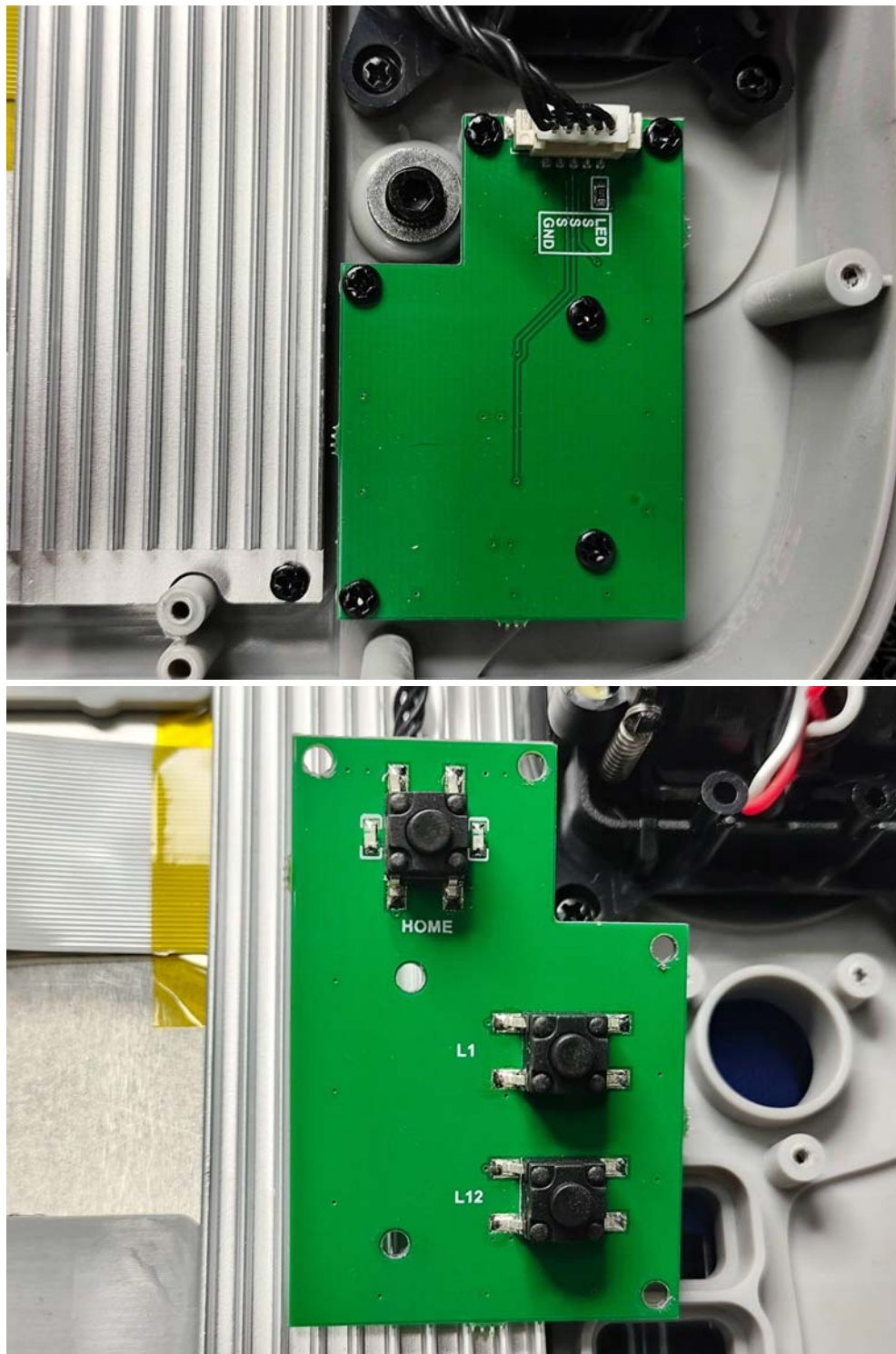


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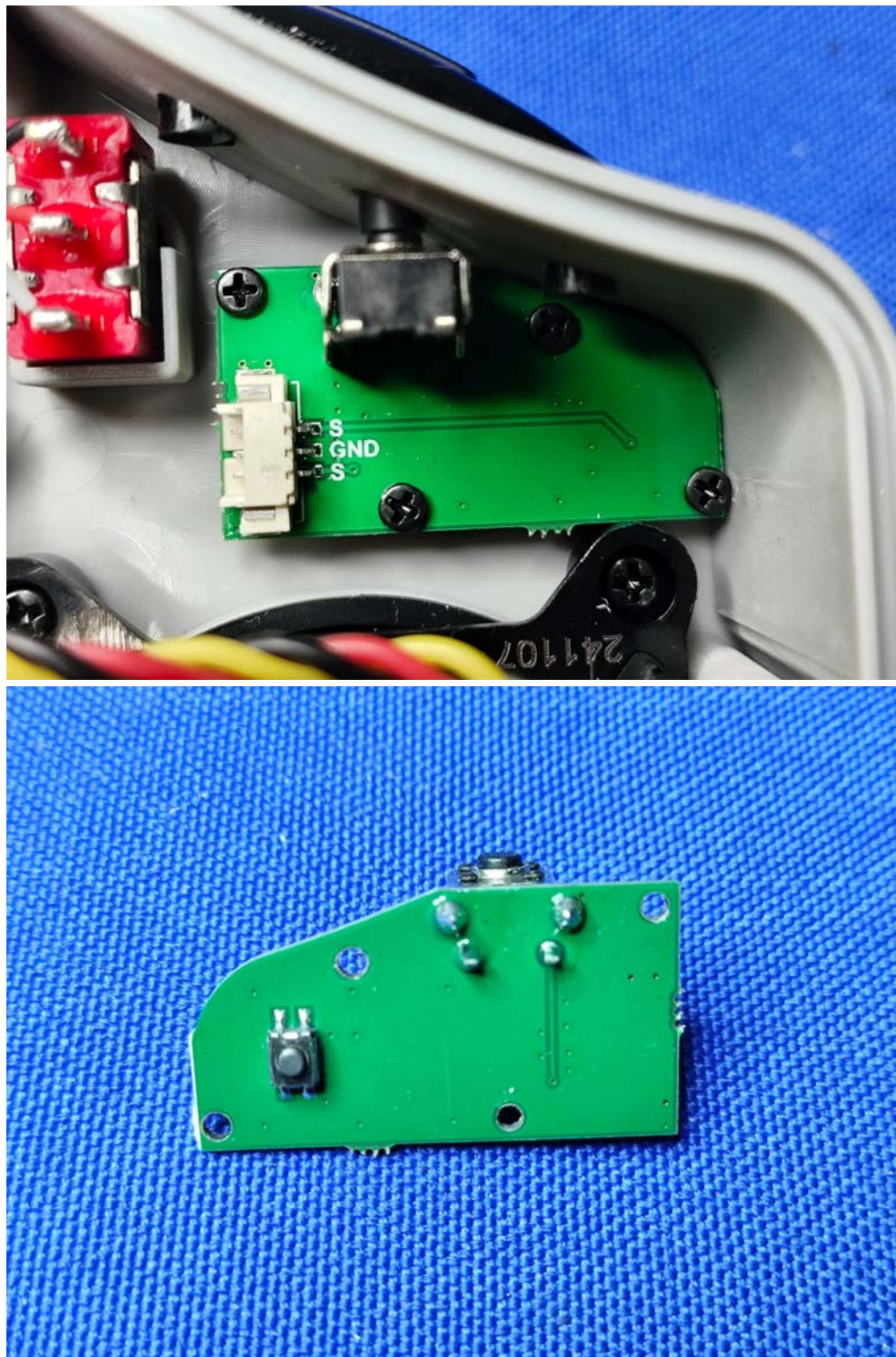
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