

# TEST REPORT

Report No.: BCTC2605154193-6E

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Applicant: Ugreen Group Limited

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Product Name: AX1800 Wi-Fi 6 Wireless Bluetooth PCIe Adapter

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Test Model: CM960

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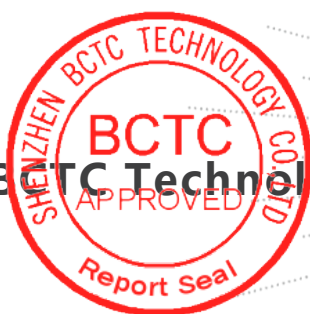
Tested Date: 2026-06-01 to 2026-06-30

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Issued Date: 2026-07-01

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Shenzhen BCTC Technology Co., Ltd.



Product Name: AX1800 Wi-Fi 6 Wireless Bluetooth PCIe Adapter

Trademark: **UGREEN**

Model/Type reference: CM960

Prepared For: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

Manufacturer: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

Prepared By: Shenzhen BCTC Technology Co., Ltd.

Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China.

Sample Received Date: 2026-06-01

Sample tested Date: 2026-06-01 to 2026-06-30

Issue Date: 2026-07-01

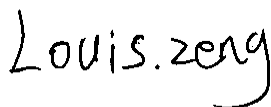
Report No.: BCTC2605154193-6E

Test Standards: Article 2-1-19-3

Test Results: PASS

Remark: This is JAPAN RADIO test report.

Prepared by:



Louis Zeng/Editor

Reviewed By:



Mike Zheng/Supervisor

Approved by:



Sewen Guo/Manager

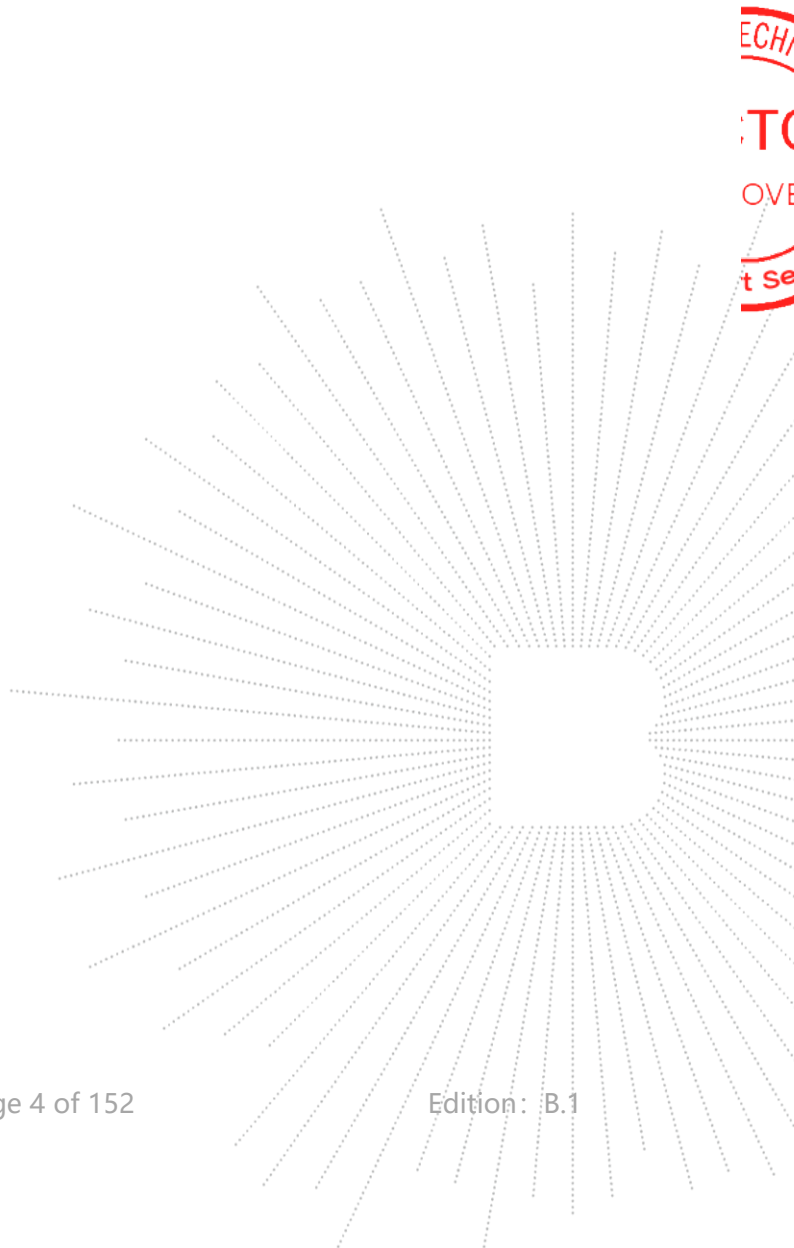
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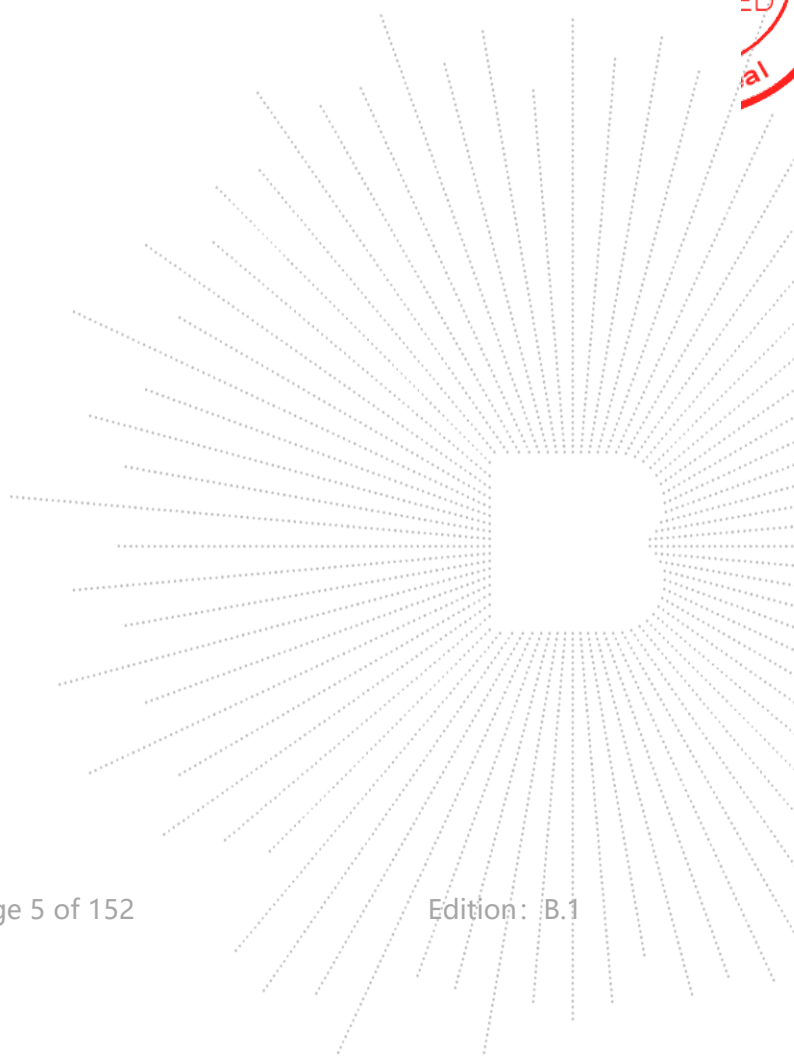
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(Note: N/A Means Not Applicable)



**1. Version**

| Report No.        | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2605154193-6E | 2026-07-01 | Original    | Valid    |
|                   |            |             |          |



## 2. Test Summary

Test procedures according to the technical standards:

| Article 49-20                        |          |
|--------------------------------------|----------|
| Description of Test                  | Result   |
| Frequency Error                      | Complies |
| Occupied Bandwidth (99%)             | Complies |
| Unwanted Emission Intensity          | Complies |
| Antenna Power and Tolerance          | Complies |
| Secondary Radiated Emissions         | Complies |
| Transmitter Burst Length             | Complies |
| Interference Prevention Function     | Complies |
| Carrier Sense Capability             | Complies |
| Adjacent Channel Emitted Power       | Complies |
| Out-Band Leakage Power               | Complies |
| Construction Protection Confirmation | Complies |
| DFS                                  | N/A      |

NOTE:

- (1) MIC Notice No.88 Appendix No.45
- (2) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20
- (3) DFS:A prototype is a client device that can be exempted

### 3. Measurement Uncertainty

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

| No. | Item                          | Uncertainty         |
|-----|-------------------------------|---------------------|
| 1   | Conducted Emission Test       | $\pm 3.2\text{dB}$  |
| 2   | Radiated Emission Test        | $\pm 4.7\text{dB}$  |
| 3   | RF power, conducted           | $\pm 0.16\text{dB}$ |
| 4   | Spurious emissions, conducted | $\pm 0.21\text{dB}$ |
| 5   | All emissions, radiated(<1G)  | $\pm 4.68\text{dB}$ |
| 6   | All emissions, radiated(>1G)  | $\pm 5.0\text{dB}$  |
| 7   | frequency error ppm           | $\pm 0.5\text{ppm}$ |

## 4. Product Information And Test Setup

### 4.1 Product Information

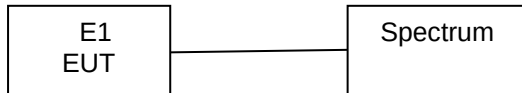
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model/Type reference:         | CM960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Model differences:            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hardware Version:             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Software Version:             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Wi-Fi Specification:          | 802.11a/n/ac/ax(20MHz channel bandwidth)<br>802.11n/ac/ax(40MHz channel bandwidth)<br>802.11ac/ax(80MHz channel bandwidth)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operation Frequency:          | 5500MHz-5700MHz for 802.11a/n(HT20) /ac(VHT20)/ax(HE20);<br>5510MHz-5670MHz for 802.11n(HT40)/ ac(VHT40)/ax(HE40);<br>5530MHz-5610MHz for 802.11 ac(VHT80)/ax(HE80);                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rated RF Output Power Density | 802.11a: 3 mW/MHz ;<br>802.11n20: 4 mW/MHz;<br>802.11 n40: 3 mW/MHz;<br>802.11 ac20: 5 mW/MHz;<br>802.11 ac40: 3 mW/MHz;<br>802.11 ac80: 2 mW/MHz;<br>802.11 ax20: 4 mW/MHz;<br>802.11 ax40: 3 mW/MHz;<br>802.11 ax80: 2 mW/MHz;.<br>802.11a: 3.86 mW/MHz;<br>802.11n20: 5.38 mW/MHz;<br>802.11 n40: 4.14 mW/MHz;<br>802.11 ac20: 6.46 mW/MHz;<br>802.11 ac40: 4.32 mW/MHz;<br>802.11 ac80: 2.36 mW/MHz;<br>802.11 ax20: 5.97 mW/MHz;<br>802.11 ax40: 4.44 mW/MHz;<br>802.11 ax80: 2.45 mW/MHz;                                                                                     |
| Conducted Power Density       | 802.11a: 3.86 mW/MHz;<br>802.11n20: 5.38 mW/MHz;<br>802.11 n40: 4.14 mW/MHz;<br>802.11 ac20: 6.46 mW/MHz;<br>802.11 ac40: 4.32 mW/MHz;<br>802.11 ac80: 2.36 mW/MHz;<br>802.11 ax20: 5.97 mW/MHz;<br>802.11 ax40: 4.44 mW/MHz;<br>802.11 ax80: 2.45 mW/MHz;                                                                                                                                                                                                                                                                                                                          |
| Type of Modulation:           | OFDM/OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Data Rate                     | 802.11a: 6,9,12,18,24,36,48,54Mbps;<br>802.11n(HT20/HT40): MCS0-MCS15;<br>802.11ac(VHT20): NSS1, MCS0-MCS8<br>802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9<br>802.11ax(HE20/HE40/HE80):NSS1, MCS0-MCS11                                                                                                                                                                                                                                                                                                                                                                                    |
| Number Of Channel:            | 11 channels for 802.11a/n20/ac20/ax20 in the 5500-5700MHz band;<br>5 channels for 802.11 n40/ac40/ax40 in the 5510-5670MHz band;<br>2 channels for 802.11 ac80/ax80 in the 5530-5610MHz band;                                                                                                                                                                                                                                                                                                                                                                                       |
| Antenna installation:         | External antenna*2<br>3.74 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Antenna Gain:                 | Remark:<br><input checked="" type="checkbox"/> The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. Antenna gain information is provided by the client and the laboratory is not responsible for its authenticity.<br><input type="checkbox"/> The antenna gain of the product is provided by the customer, and the test data is affected by the customer information. Antenna gain information is provided by the client and the laboratory is not responsible for its authenticity. |
| Ratings:                      | DC 3.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Remark:

- P/N code in the below table, for marketing purpose, will be marked on the marking plate.

|        |         |         |         |         |         |          |
|--------|---------|---------|---------|---------|---------|----------|
| 75617  | 75617EU | 75617UK | 75617US | 75617JP | 75617CN | 75617KC  |
| 75617A | 75617B  | 75617C  | 75617P  | 75617U  | 75617X  | KC-75617 |

## 4.2 Block Diagram Parameters Of Text Software Setting



## 4.3 Description Of Support Units (Conducted Mode)

| Item | Equipment                                            | Mfr/Brand     | Model/Type No. | Series No. | Note |
|------|------------------------------------------------------|---------------|----------------|------------|------|
| E-1  | AX1800 Wi-Fi 6<br>Wireless Bluetooth<br>PCIe Adapter | <b>UGREEN</b> | CM960          | N/A        | EUT  |

### Notes:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column
3. “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

## 4.4 Channel List

| 20MHz   |           | 40MHz   |           | 80MHz   |           |
|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 100     | 5500      | 102     | 5510      | 106     | 5530      |
| 104     | 5520      | 110     | 5550      | 122     | 5610      |
| 108     | 5540      | 118     | 5590      | /       | /         |
| 112     | 5560      | 126     | 5630      | /       | /         |
| 116     | 5580      | 134     | 5670      | /       | /         |
| 120     | 5600      | /       | /         | /       | /         |
| 124     | 5620      | /       | /         | /       | /         |
| 128     | 5640      | /       | /         | /       | /         |
| 132     | 5660      | /       | /         | /       | /         |
| 136     | 5680      | /       | /         | /       | /         |
| 140     | 5700      | /       | /         | /       | /         |

| 802.11a/n20/ac20/<br>ax20 |           | 802.11n40/ac40/ ax40 |           | 802.11a80/ax80 |           |
|---------------------------|-----------|----------------------|-----------|----------------|-----------|
| Channel                   | Frequency | Channel              | Frequency | Channel        | Frequency |
| 100                       | 5500      | 102                  | 5510      | 106            | 5530      |
| 120                       | 5600      | 118                  | 5590      | 122            | 5610      |
| 140                       | 5700      | 134                  | 5670      | /              | /         |

#### 4.5 Test Mode

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |                 |
|--------------|-------------|-----------------|
| Mode 1       | CH100       | 802.11a         |
| Mode 2       | CH120       |                 |
| Mode 3       | CH140       |                 |
| Mode 4       | RX          |                 |
| Mode 5       | CH100       | 802.11n20       |
| Mode 6       | CH120       |                 |
| Mode 7       | CH140       |                 |
| Mode 8       | RX          |                 |
| Mode 9       | CH102       | 802.11n40       |
| Mode 10      | CH118       |                 |
| Mode 11      | CH134       |                 |
| Mode 12      | RX          |                 |
| Mode 13      | CH100       | 802.11ac20/ax20 |
| Mode 14      | CH120       |                 |
| Mode 15      | CH140       |                 |
| Mode 16      | RX          |                 |
| Mode 17      | CH102       | 802.11ac40/ax40 |
| Mode 18      | CH118       |                 |
| Mode 19      | CH134       |                 |
| Mode 20      | RX          |                 |
| Mode 21      | CH106       | 802.11ac80/ax80 |
| Mode 22      | CH122       |                 |

Notes: This product does not support RU mode.

#### 4.6 Test Conditions

The devices was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

**Power Supply Voltage Fluctuation Test**

| <b>Voltage Fluctuation Test</b> | <b>Normal Voltage</b> | <b>High Voltage +10% of Normal Voltage</b> | <b>Low Voltage -10% of Normal Voltage</b> |
|---------------------------------|-----------------------|--------------------------------------------|-------------------------------------------|
| Input DC Power                  | DC 3.3V               | DC 3.63V                                   | DC 2.97V                                  |
| RF input point power (DC)       | 3.3V                  | 3.3V                                       | 3.3V                                      |

Note:

Voltage Variation (%)= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage\* 100

During the EUT input from the external power supply voltage change of  $\pm 10\%$ , the change of the external power supply of  $\pm 10\%$  does not affect the DC 3.3V voltage of the RF, so it is only operated at normal voltage to test all regulations.

#### 4.7 Table Of Parameters Of Test Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| <b>Test software Version</b> | <b>SecureCRT</b> |          |         |
|------------------------------|------------------|----------|---------|
| Frequency                    | 5500 MHz         | 5600 MHz | 5700MHz |
| Parameters                   | DEF              | DEF      | DEF     |
| Frequency                    | 5510 MHz         | 5590 MHz | 5670MHz |
| Parameters                   | DEF              | DEF      | DEF     |
| Frequency                    | 5530 MHz         | 5610 MHz | /       |
| Parameters                   | DEF              | DEF      | /       |

## 5. Test Facility And Test Instrument Used

### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Technology Co., Ltd., Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China.. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

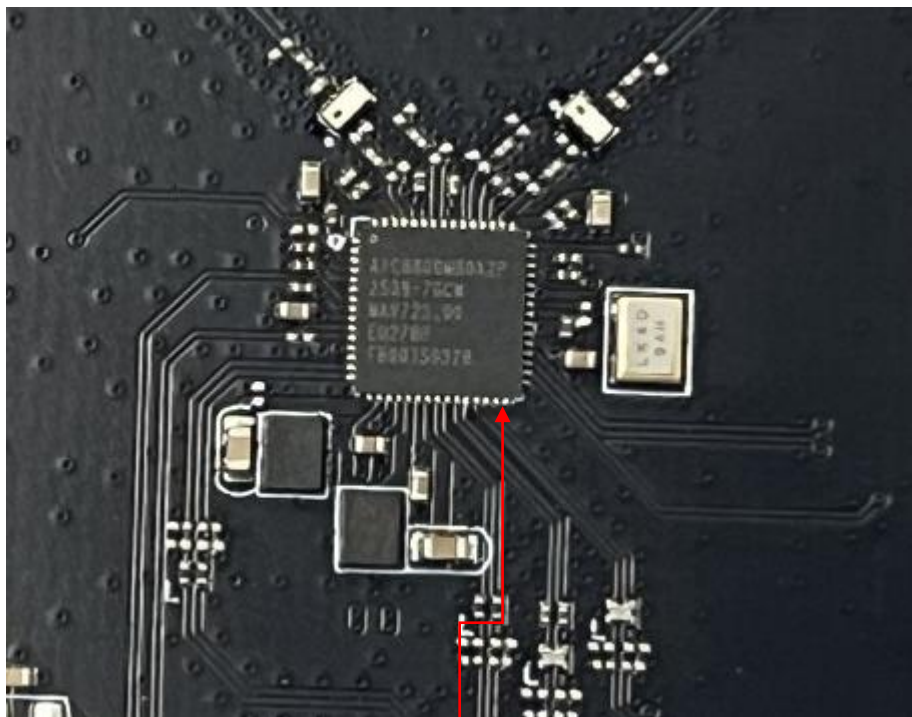
### 5.2 Test Instrument Used

| RF Conducted Test                                           |              |                           |            |              |              |
|-------------------------------------------------------------|--------------|---------------------------|------------|--------------|--------------|
| Equipment                                                   | Manufacturer | Model#                    | Serial#    | Last Cal.    | Next Cal.    |
| Spectrum Analyzer                                           | Keysight     | N9020A                    | MY51287403 | Aug.30, 2025 | Aug.29, 2026 |
| Signal Generator                                            | Keysight     | N5182A                    | MY50144088 | Aug.30, 2025 | Aug.29, 2026 |
| Power Metter                                                | MWRFtest     | MW100-RFC B               | \          | Aug.30, 2025 | Aug.29, 2026 |
| Radio frequency control box                                 | MWRFtest     | MW100-RFC B               | \          | \            | \            |
| Software                                                    | Frad         | EZ-EMC                    | FA-03A2 RE | \            | \            |
| Software                                                    | Keysight     | Keysight.ETS LTest system | 1.02.05    | \            | \            |
| D.C. Power Supply                                           | LongWei      | D-41747 Viersen           | 6230316    | Aug.30, 2025 | Aug.29, 2026 |
| Communication test set                                      | R&S          | CMW500                    | 157483     | Aug.30, 2025 | Aug.29, 2026 |
| Programmable constant temperature and humidity test chamber | Auchno       | OJN-9606-40 8L            | 19120183   | Jul.9, 2025  | Jul.8, 2026  |
| Hygrothermograph                                            | Thermo       | HTC-1                     | \          | Sep.4, 2024  | Aug.31, 2026 |

Calibration laboratory: CCIC(Shenzhen) Co., Ltd

## 6. Tamperproof Declaration

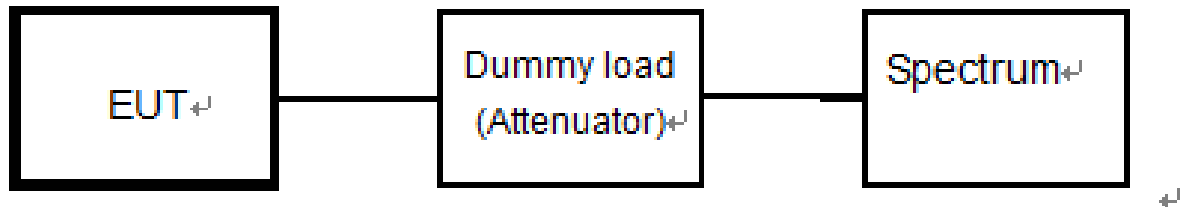
The RF and modulation portions are protected against illegal modifications as follows:  
Number of the pins: 60 interval distance 0.2mm



Protective containment soldering

## 7. Frequency Error

### 7.1 Block Diagram Of Test Setup



### 7.2 Limit

| Item            | Limits |
|-----------------|--------|
| Frequency Error | ±20ppm |

### 7.3 Measuring Instruments And Setting

The following table is the setting of Spectrum Analyzer.

| Spectrum Parameter | Setting  |
|--------------------|----------|
| Attenuation        | Auto     |
| RB / VB            | 30KHz    |
| Detector           | Peak     |
| Trace              | Max Hold |
| Sweep Time         | Auto     |

### 7.4 Test Procedure

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
  - (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
  - (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
  - (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.
- In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

## 7.5 Test Result

|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

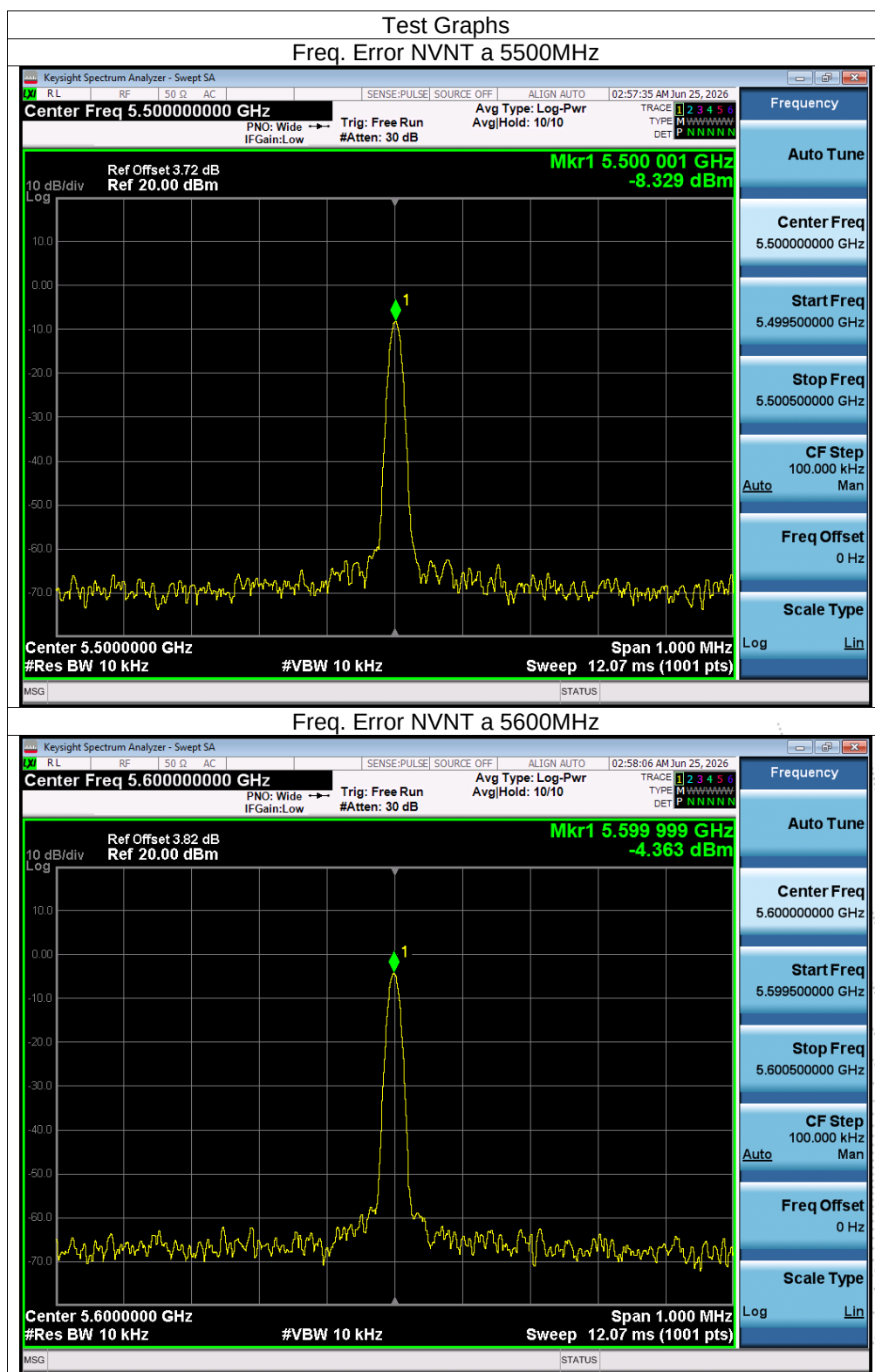
### Antenna A:

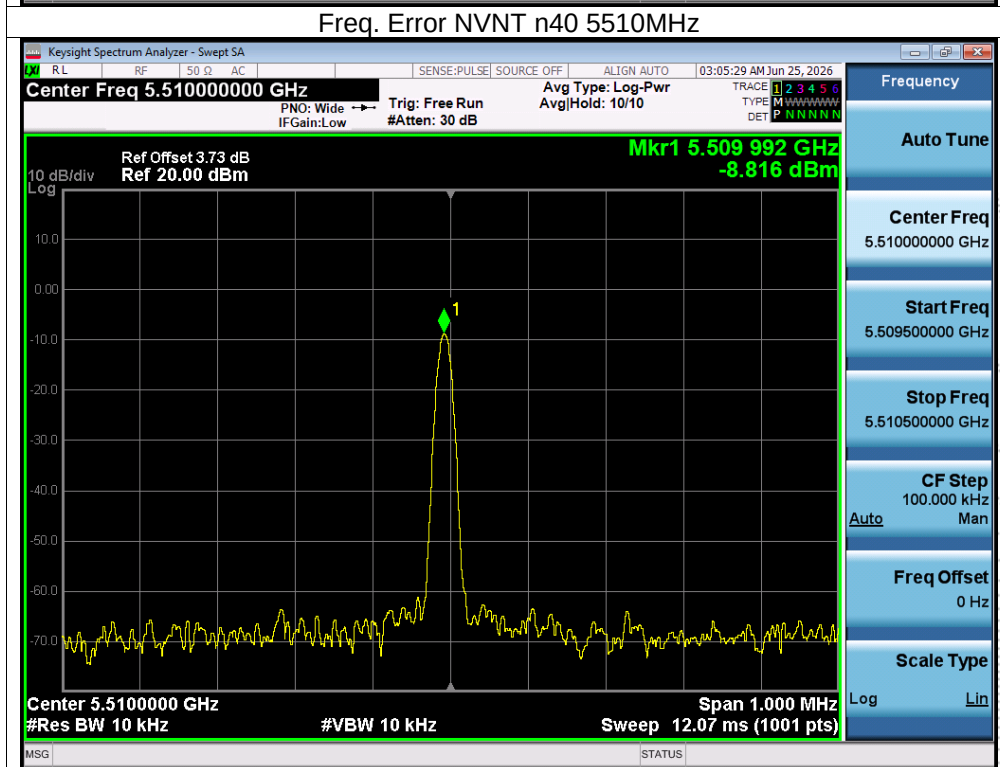
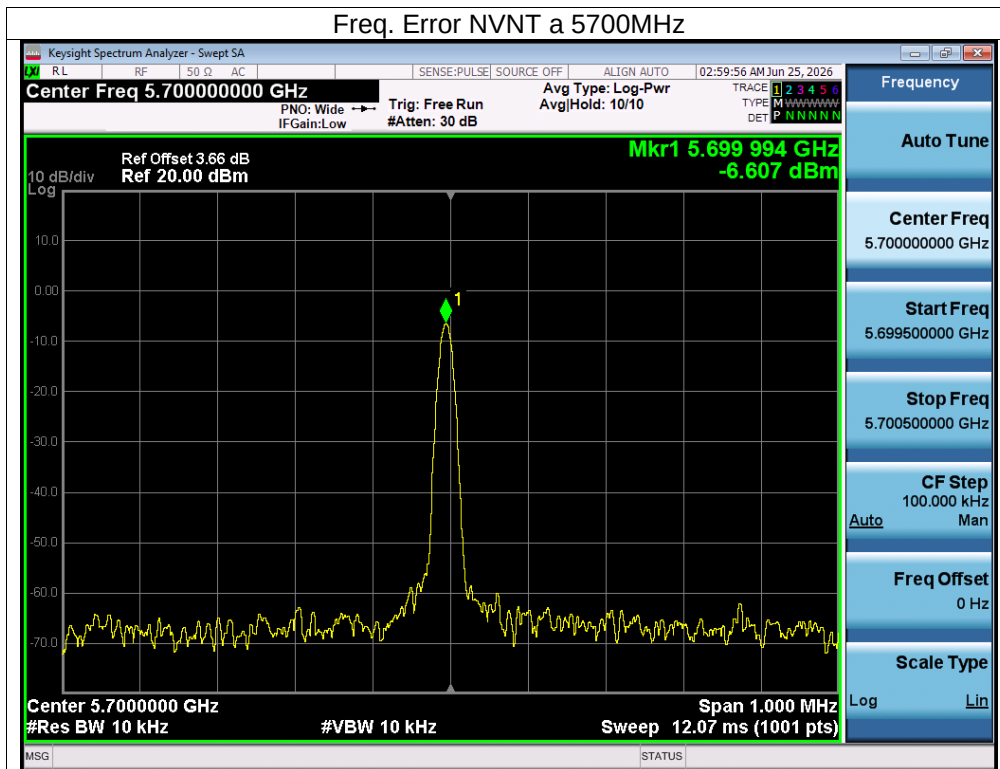
| Condition | Frequency (MHz) | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|-----------------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | 5500            | 5500.001                 | 1000                 | <b>0.18</b>     | 20          | Pass    |
| NVNT      | 5600            | 5599.999                 | -1000                | -0.18           | 20          | Pass    |
| NVNT      | 5700            | 5699.994                 | -6000                | -1.05           | 20          | Pass    |
| NVNT      | 5510            | 5509.992                 | -8000                | -1.45           | 20          | Pass    |
| NVNT      | 5590            | 5589.993                 | -7000                | -1.25           | 20          | Pass    |
| NVNT      | 5670            | 5669.996                 | -4000                | -0.71           | 20          | Pass    |
| NVNT      | 5530            | 5529.993                 | -7000                | -1.27           | 20          | Pass    |
| NVNT      | 5610            | 5609.995                 | -5000                | -0.89           | 20          | Pass    |

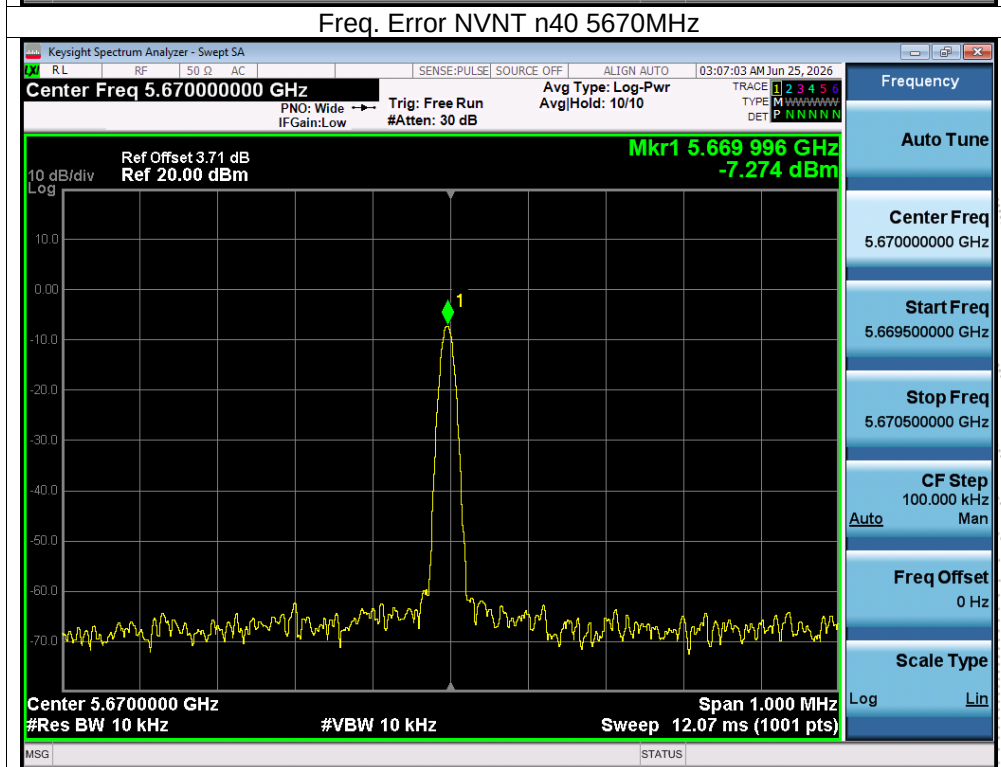
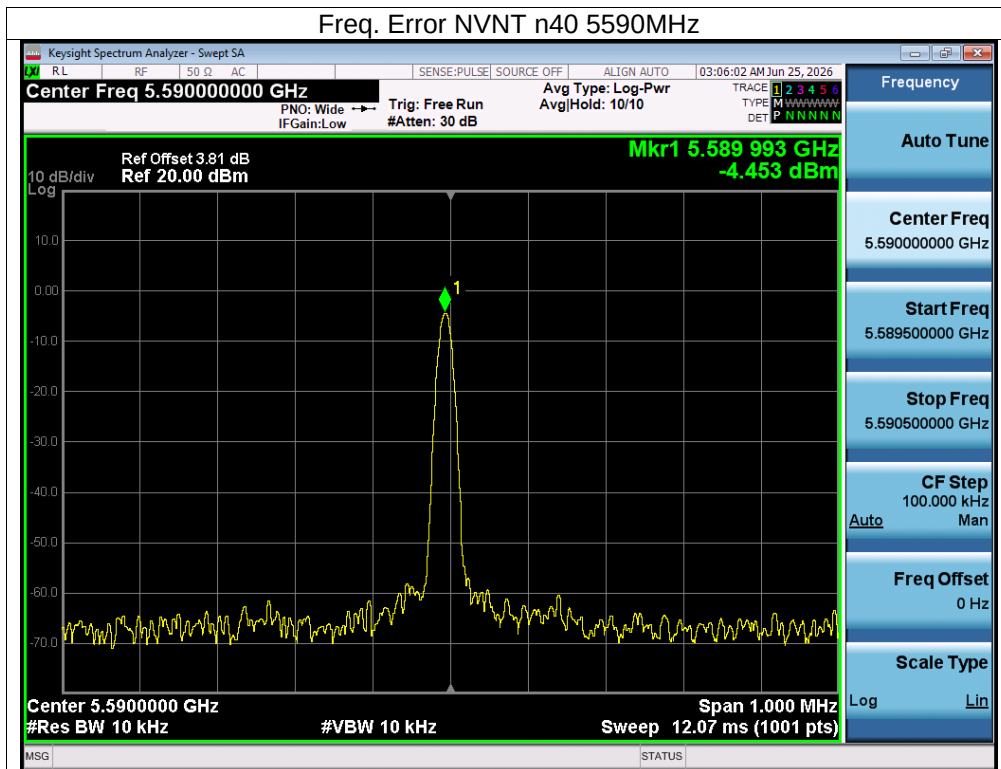
### Antenna B:

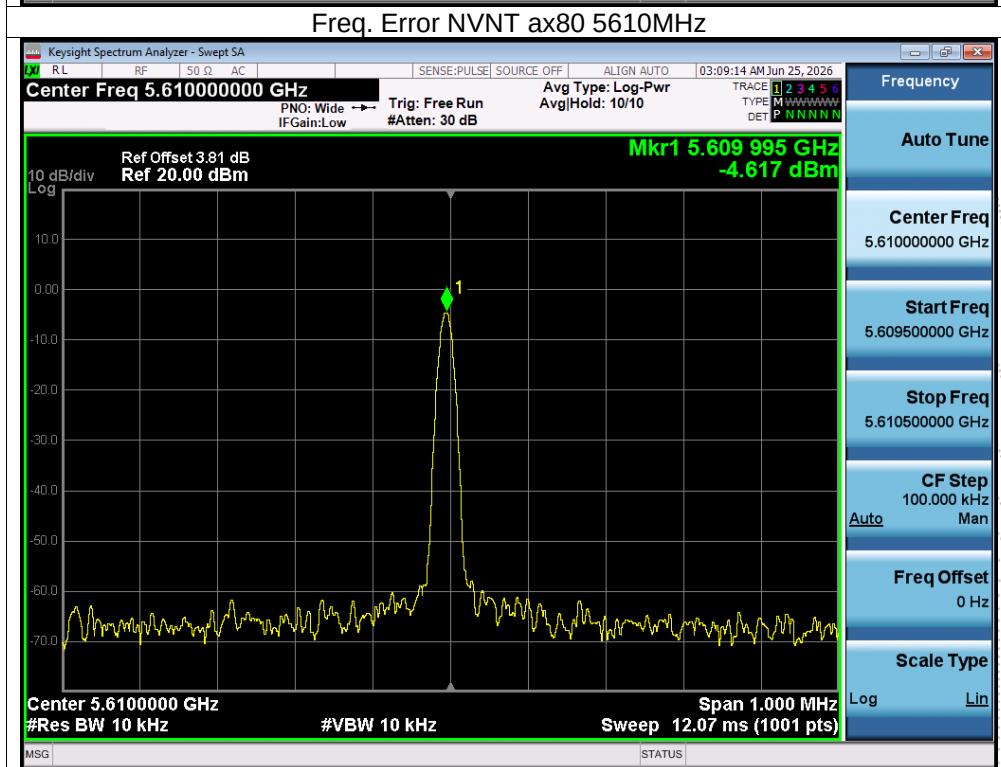
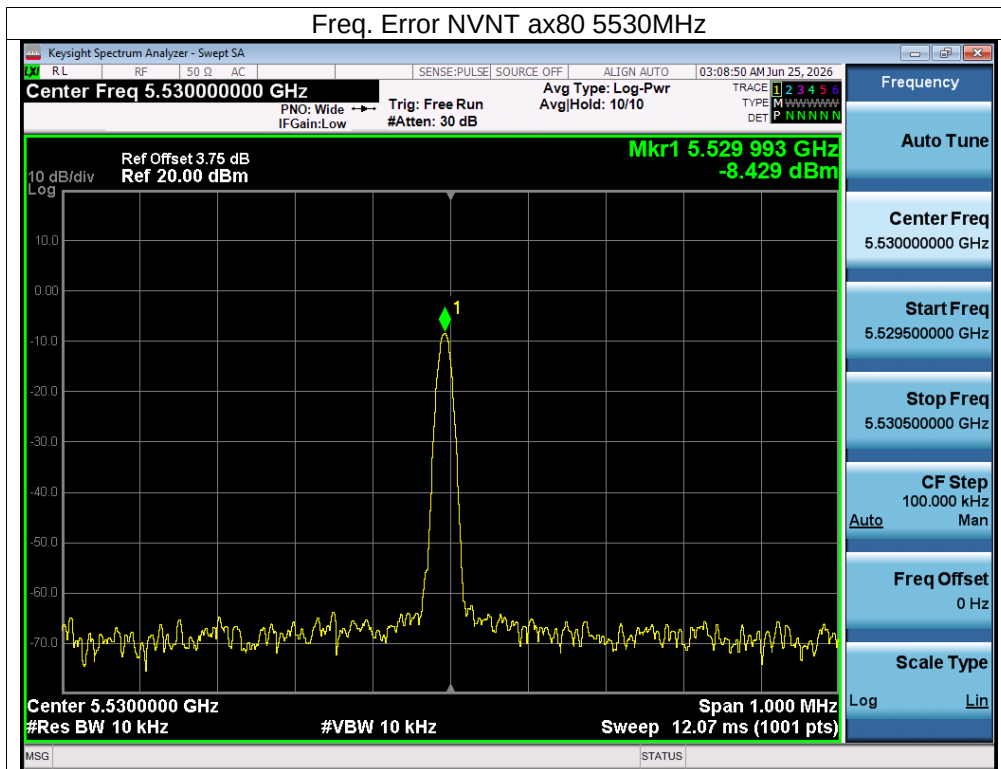
| Condition | Frequency (MHz) | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|-----------------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | 5500            | 5499.993                 | -7000                | -1.27           | 20          | Pass    |
| NVNT      | 5600            | 5599.994                 | -6000                | -1.07           | 20          | Pass    |
| NVNT      | 5700            | 5699.994                 | -6000                | -1.05           | 20          | Pass    |
| NVNT      | 5510            | 5509.995                 | -5000                | -0.91           | 20          | Pass    |
| NVNT      | 5590            | 5589.995                 | -5000                | -0.89           | 20          | Pass    |
| NVNT      | 5670            | 5669.996                 | -4000                | <b>-0.71</b>    | 20          | Pass    |
| NVNT      | 5530            | 5529.994                 | -6000                | -1.08           | 20          | Pass    |
| NVNT      | 5610            | 5609.992                 | -8000                | -1.43           | 20          | Pass    |

Note: A(B) Represent the value of antenna A and B, the worst data is Antenna A, only shown Antenna A Plot.



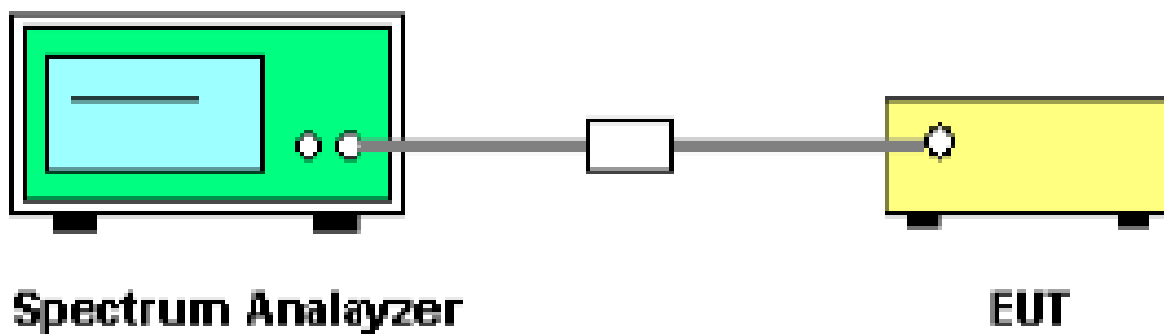






## 8. Antenna Power

### 8.1 Block Diagram Of Test Setup



### 8.2 Limit

| Item                    | Limits                                                                                                                                                                               |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna Power           | 802.11a20/n20/ac20/ax20 $\leq 25\text{mW/MHz}$ : without TPC<br>802.11n40/ac40/ax40 $\leq 12.5\text{mW/MHz}$ : without TPC<br>802.11ac80/ax80 $\leq 6.25\text{mW/MHz}$ : without TPC |
| Antenna Power tolerance | +50%, -50% (Base on manufacturer declare antenna power density)                                                                                                                      |

### 8.3 Measuring Instruments And Setting

The following table is the setting of Spectrum Analyzer.

| Spectrum Parameter | Setting  |
|--------------------|----------|
| Attenuation        | Auto     |
| RB / VB            | 1 MHz    |
| Detector           | Peak     |
| Trace              | Max Hold |
| Sweep Time         | Auto     |

## 8.4 Test Procedure

1. EUT Connect the to the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument' range. The frequency found shall be recorded.
5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Calculate antenna power density by the formula below  $PD = Pt + 10 \cdot \log(1/x)$ .  
x: The duty cycle of the EUT in continuously transmitting mode  
Pt: Output power of the SSG
7. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

## 8.5 Test Result

|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

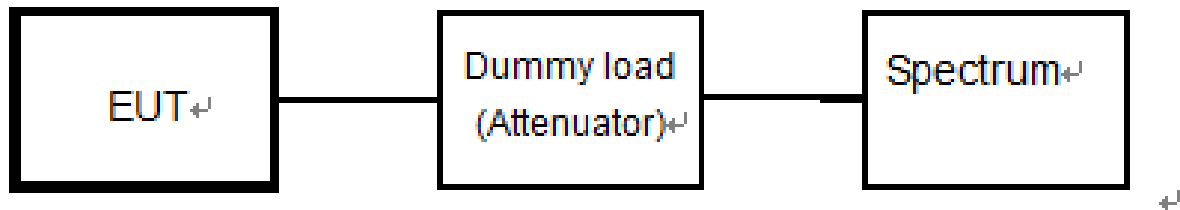
| Condi<br>tion                                                           | Mode | Fre-<br>quency<br>(MHz) | Power<br>(dBm/MHz) |          | Antenna Power<br>(mW/MHz) |          |       | Declared<br>Power<br>(mW/MHz) | Tolerance (%) |          |       |
|-------------------------------------------------------------------------|------|-------------------------|--------------------|----------|---------------------------|----------|-------|-------------------------------|---------------|----------|-------|
|                                                                         |      |                         | ANT<br>A           | ANT<br>B | ANT<br>A                  | ANT<br>B | Total |                               | ANT<br>A      | ANT<br>B | Total |
| NVNT                                                                    | a    | 5500                    | 3.63               | 3.94     | 2.31                      | 2.48     | /     | 3                             | -23           | -17      | /     |
| NVNT                                                                    | a    | 5600                    | 3.44               | 5.87     | 2.21                      | 3.86     | /     | 3                             | -26           | 29       | /     |
| NVNT                                                                    | a    | 5700                    | 4.55               | 5.83     | 2.85                      | 3.83     | /     | 3                             | -5            | 28       | /     |
| NVNT                                                                    | n20  | 5500                    | 1.99               | 3.08     | 1.58                      | 2.03     | 3.61  | 4                             | /             | /        | -10   |
| NVNT                                                                    | n20  | 5600                    | 2.56               | 4.49     | 1.80                      | 2.81     | 4.61  | 4                             | /             | /        | 15    |
| NVNT                                                                    | n20  | 5700                    | 3.59               | 4.9      | 2.29                      | 3.09     | 5.38  | 4                             | /             | /        | 34    |
| NVNT                                                                    | n40  | 5510                    | 1.04               | 1.98     | 1.27                      | 1.58     | 2.85  | 3                             | /             | /        | -5    |
| NVNT                                                                    | n40  | 5590                    | 1.05               | 3.62     | 1.27                      | 2.30     | 3.57  | 3                             | /             | /        | 19    |
| NVNT                                                                    | n40  | 5670                    | 2.73               | 3.56     | 1.87                      | 2.27     | 4.14  | 3                             | /             | /        | 38    |
| NVNT                                                                    | ac20 | 5500                    | 1.93               | 2.67     | 1.56                      | 1.85     | 3.41  | 5                             | /             | /        | -32   |
| NVNT                                                                    | ac20 | 5600                    | 2.39               | 4.77     | 1.73                      | 3.00     | 4.73  | 5                             | /             | /        | -5    |
| NVNT                                                                    | ac20 | 5700                    | 4.59               | 5.54     | 2.88                      | 3.58     | 6.46  | 5                             | /             | /        | 29    |
| NVNT                                                                    | ac40 | 5510                    | 1.54               | 2.07     | 1.43                      | 1.61     | 3.04  | 3                             | /             | /        | 1     |
| NVNT                                                                    | ac40 | 5590                    | 1.34               | 4.27     | 1.36                      | 2.67     | 4.03  | 3                             | /             | /        | 34    |
| NVNT                                                                    | ac40 | 5670                    | 3.11               | 3.57     | 2.05                      | 2.28     | 4.32  | 3                             | /             | /        | 44    |
| NVNT                                                                    | ac80 | 5530                    | -0.86              | 0        | 0.82                      | 1.00     | 1.82  | 2                             | /             | /        | -9    |
| NVNT                                                                    | ac80 | 5610                    | -0.76              | 1.81     | 0.84                      | 1.52     | 2.36  | 2                             | /             | /        | 18    |
| NVNT                                                                    | ax20 | 5500                    | 2.28               | 3.43     | 1.69                      | 2.20     | 3.89  | 4                             | /             | /        | -3    |
| NVNT                                                                    | ax20 | 5600                    | 2.63               | 5.57     | 1.83                      | 3.61     | 5.44  | 4                             | /             | /        | 36    |
| NVNT                                                                    | ax20 | 5700                    | 4.22               | 5.22     | 2.64                      | 3.33     | 5.97  | 4                             | /             | /        | 49    |
| NVNT                                                                    | ax40 | 5510                    | 0.44               | 2.25     | 1.11                      | 1.68     | 2.79  | 3                             | /             | /        | -7    |
| NVNT                                                                    | ax40 | 5590                    | 0.77               | 3.96     | 1.19                      | 2.49     | 3.68  | 3                             | /             | /        | 23    |
| NVNT                                                                    | ax40 | 5670                    | 3.07               | 3.83     | 2.03                      | 2.42     | 4.44  | 3                             | /             | /        | 48    |
| NVNT                                                                    | ax80 | 5530                    | 0.42               | 0.85     | 1.10                      | 1.22     | 2.32  | 2                             | /             | /        | 16    |
| NVNT                                                                    | ax80 | 5610                    | 0.49               | 1.25     | 1.12                      | 1.33     | 2.45  | 2                             | /             | /        | 23    |
| Limit : +50%, -50% (Base on manufacturer declare antenna power density) |      |                         |                    |          |                           |          |       |                               |               |          |       |
| Verdict: Pass                                                           |      |                         |                    |          |                           |          |       |                               |               |          |       |

| Condi-<br>tion | Mode | Fre-<br>quency<br>(MHz) | Power<br>(dBm/MHz) |          | Antenna<br>Gain (dBi) |          | EIRP (mW/MHz) |          |       |       | Verdict |
|----------------|------|-------------------------|--------------------|----------|-----------------------|----------|---------------|----------|-------|-------|---------|
|                |      |                         | ANT<br>A           | ANT<br>A | ANT<br>A              | ANT<br>A | ANT<br>A      | ANT<br>B | Total | Limit |         |
| NVNT           | a    | 5500                    | 3.63               | 3.94     | 3.74                  | 3.74     | 5.46          | 5.86     | /     | 25    | Pass    |
| NVNT           | a    | 5600                    | 3.44               | 5.87     | 3.74                  | 3.74     | 5.22          | 9.14     | /     | 25    | Pass    |
| NVNT           | a    | 5700                    | 4.55               | 5.83     | 3.74                  | 3.74     | 6.75          | 9.06     | /     | 25    | Pass    |
| NVNT           | n20  | 5500                    | 1.99               | 3.08     | 3.74                  | 3.74     | 3.74          | 4.81     | 8.55  | 25    | Pass    |
| NVNT           | n20  | 5600                    | 2.56               | 4.49     | 3.74                  | 3.74     | 4.27          | 6.65     | 10.92 | 25    | Pass    |
| NVNT           | n20  | 5700                    | 3.59               | 4.9      | 3.74                  | 3.74     | 5.41          | 7.31     | 12.72 | 25    | Pass    |
| NVNT           | n40  | 5510                    | 1.04               | 1.98     | 3.74                  | 3.74     | 3.01          | 3.73     | 6.74  | 12.5  | Pass    |
| NVNT           | n40  | 5590                    | 1.05               | 3.62     | 3.74                  | 3.74     | 3.01          | 5.45     | 8.46  | 12.5  | Pass    |
| NVNT           | n40  | 5670                    | 2.73               | 3.56     | 3.74                  | 3.74     | 4.44          | 5.37     | 9.81  | 12.5  | Pass    |
| NVNT           | ac20 | 5500                    | 1.93               | 2.67     | 3.74                  | 3.74     | 3.69          | 4.38     | 8.07  | 25    | Pass    |
| NVNT           | ac20 | 5600                    | 2.39               | 4.77     | 3.74                  | 3.74     | 4.10          | 7.10     | 11.2  | 25    | Pass    |
| NVNT           | ac20 | 5700                    | 4.59               | 5.54     | 3.74                  | 3.74     | 6.81          | 8.47     | 15.28 | 25    | Pass    |
| NVNT           | ac40 | 5510                    | 1.54               | 2.07     | 3.74                  | 3.74     | 3.37          | 3.81     | 7.18  | 12.5  | Pass    |
| NVNT           | ac40 | 5590                    | 1.34               | 4.27     | 3.74                  | 3.74     | 3.22          | 6.32     | 9.54  | 12.5  | Pass    |
| NVNT           | ac40 | 5670                    | 3.11               | 3.57     | 3.74                  | 3.74     | 4.84          | 5.38     | 10.22 | 12.5  | Pass    |
| NVNT           | ac80 | 5530                    | -0.86              | 0        | 3.74                  | 3.74     | 1.94          | 2.37     | 4.31  | 6.25  | Pass    |
| NVNT           | ac80 | 5610                    | -0.76              | 1.81     | 3.74                  | 3.74     | 1.99          | 3.59     | 5.58  | 6.25  | Pass    |
| NVNT           | ax20 | 5500                    | 2.28               | 3.43     | 3.74                  | 3.74     | 4.00          | 5.21     | 9.21  | 25    | Pass    |
| NVNT           | ax20 | 5600                    | 2.63               | 5.57     | 3.74                  | 3.74     | 4.34          | 8.53     | 12.87 | 25    | Pass    |
| NVNT           | ax20 | 5700                    | 4.22               | 5.22     | 3.74                  | 3.74     | 6.25          | 7.87     | 14.12 | 25    | Pass    |
| NVNT           | ax40 | 5510                    | 0.44               | 2.25     | 3.74                  | 3.74     | 2.62          | 3.97     | 6.59  | 12.5  | Pass    |
| NVNT           | ax40 | 5590                    | 0.77               | 3.96     | 3.74                  | 3.74     | 2.82          | 5.89     | 8.71  | 12.5  | Pass    |
| NVNT           | ax40 | 5670                    | 3.07               | 3.83     | 3.74                  | 3.74     | 4.80          | 5.71     | 10.51 | 12.5  | Pass    |
| NVNT           | ax80 | 5530                    | 0.42               | 0.85     | 3.74                  | 3.74     | 2.61          | 2.88     | 5.49  | 6.25  | Pass    |
| NVNT           | ax80 | 5610                    | 0.49               | 1.25     | 3.74                  | 3.74     | 2.65          | 3.16     | 5.81  | 6.25  | Pass    |

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## 9. Occupied Bandwidth

### 9.1 Block Diagram Of Test Setup



### 9.2 Limit

| Item               | Limits                                                                                                                     |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|
| Occupied Bandwidth | Not exceed 20MHz(DSSS 20MHz system)<br>20MHz(OFDM 20MHz system),<br>40MHz(OFDM 40MHz system) ,<br>80MHz(OFDM 80MHz system) |

### 9.3 Test Procedure

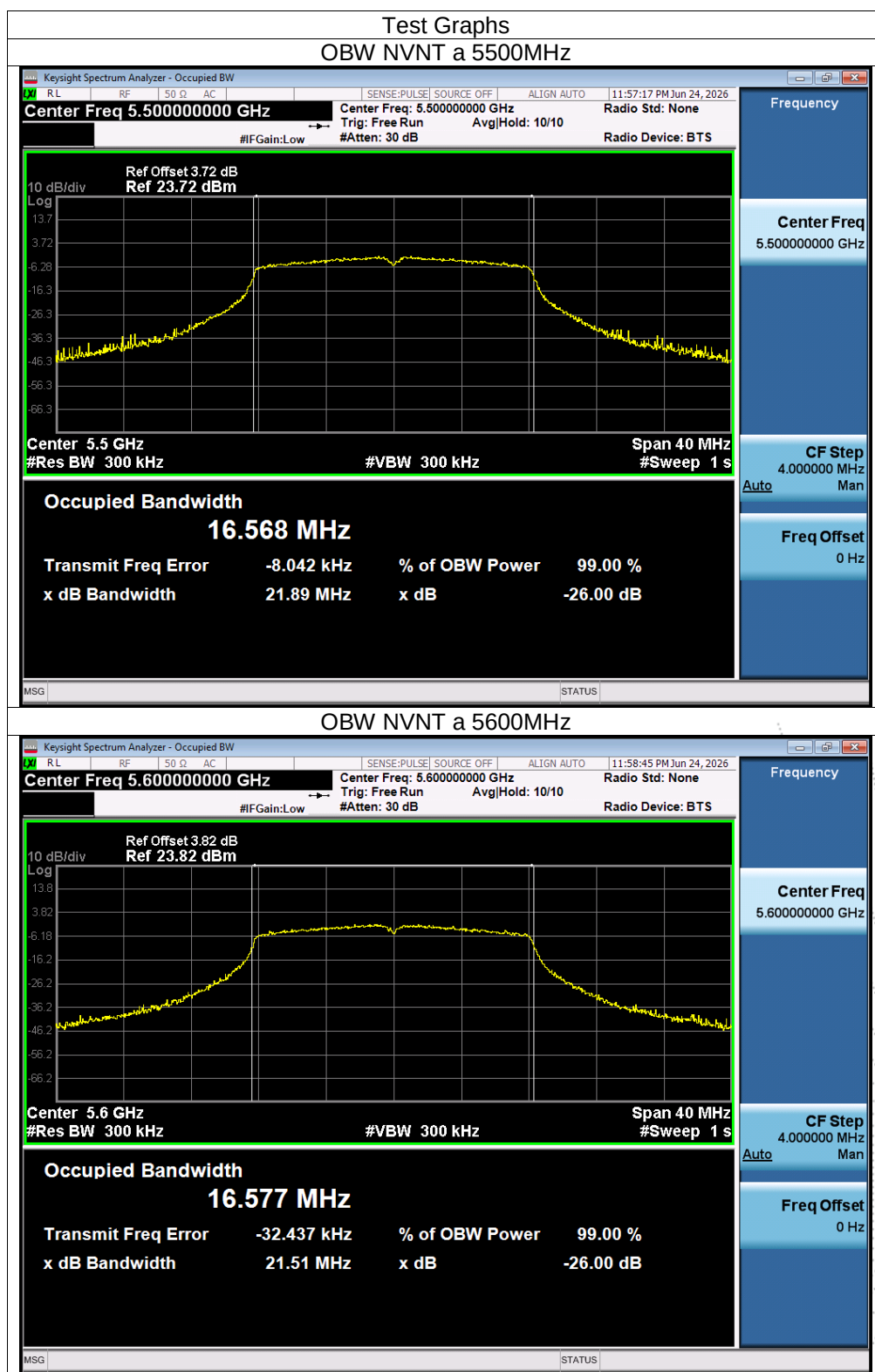
1. Setting of SA is following as: RB: 300 kHz / VB: 300 kHz / SPAN: 3MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device).

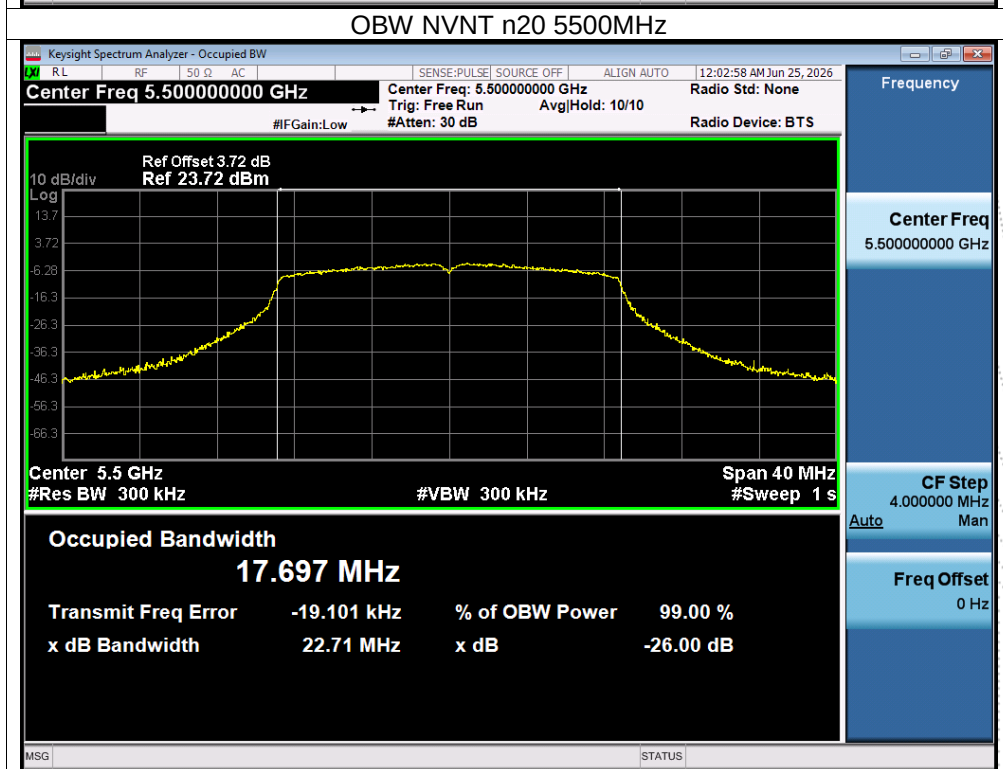
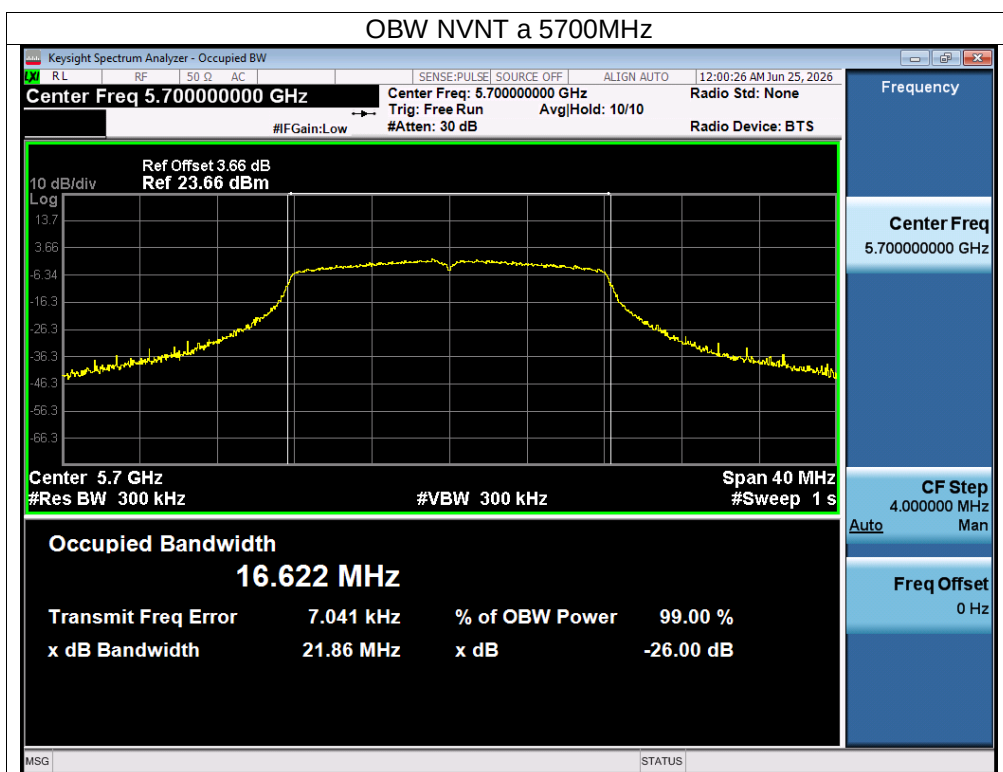
#### 9.4 Test Result

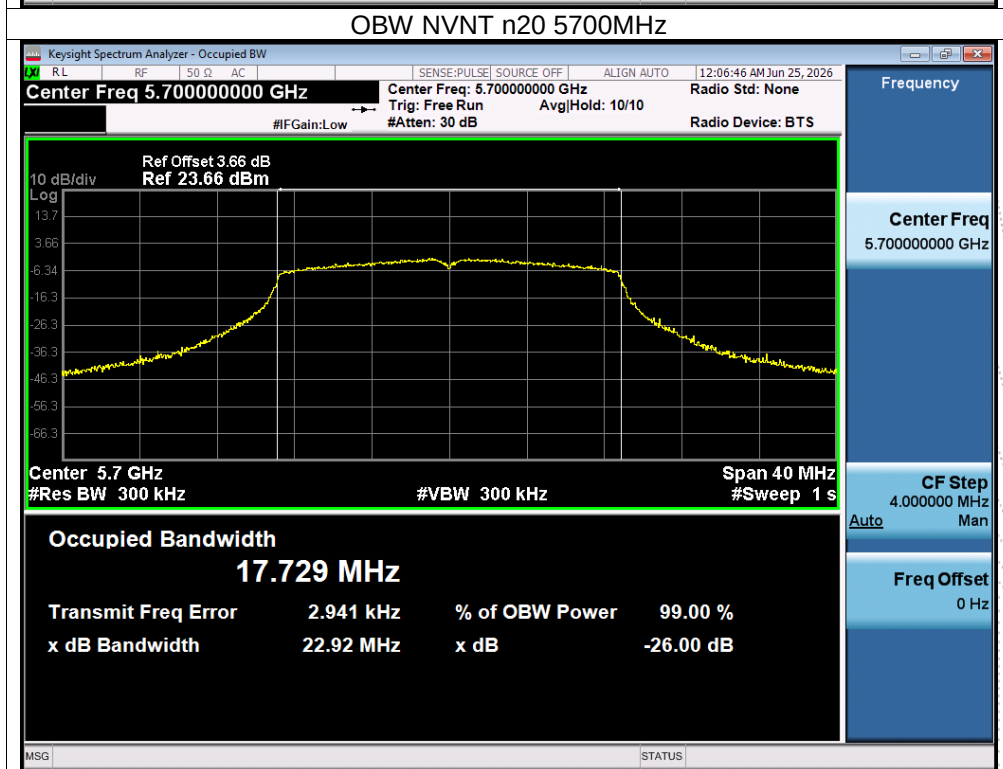
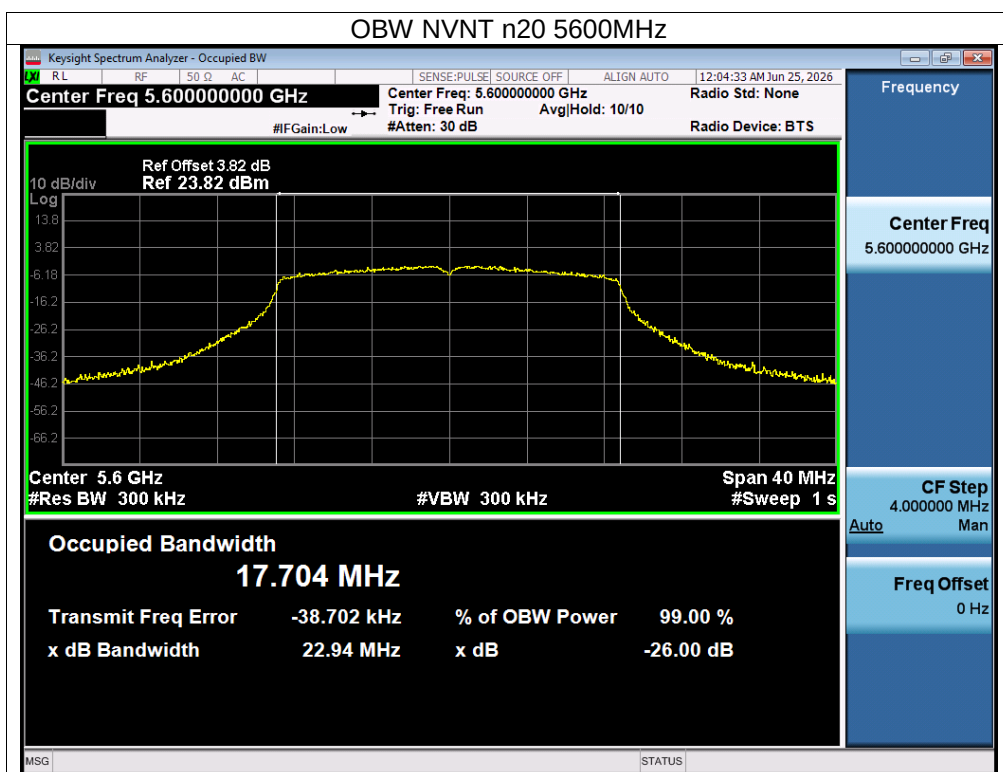
|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

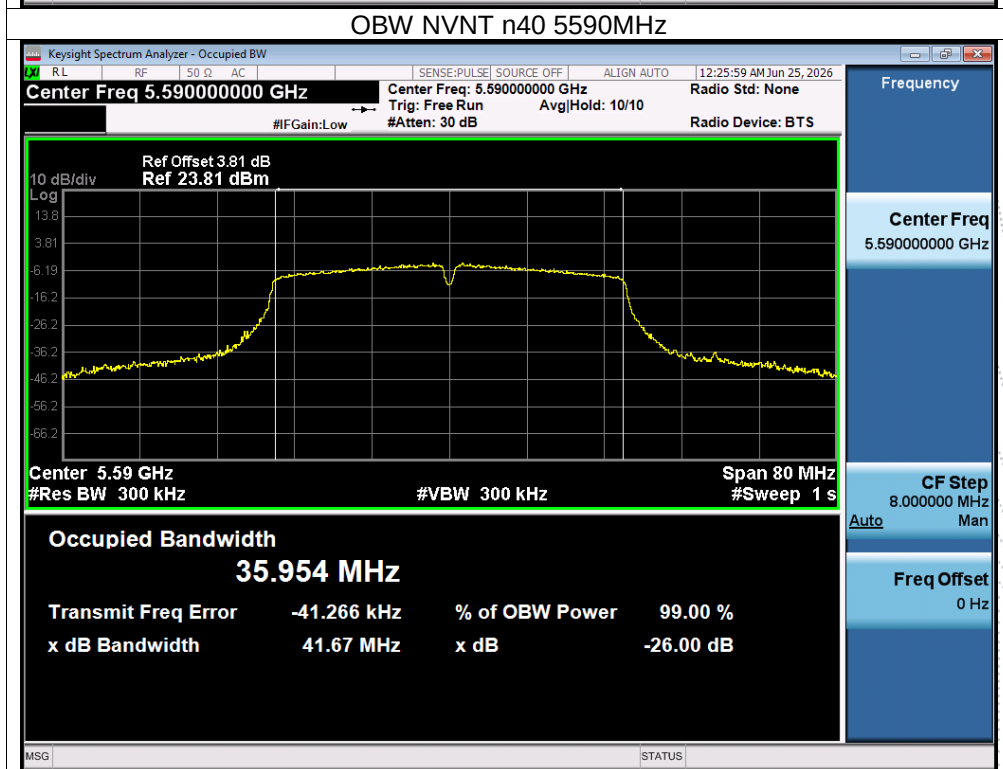
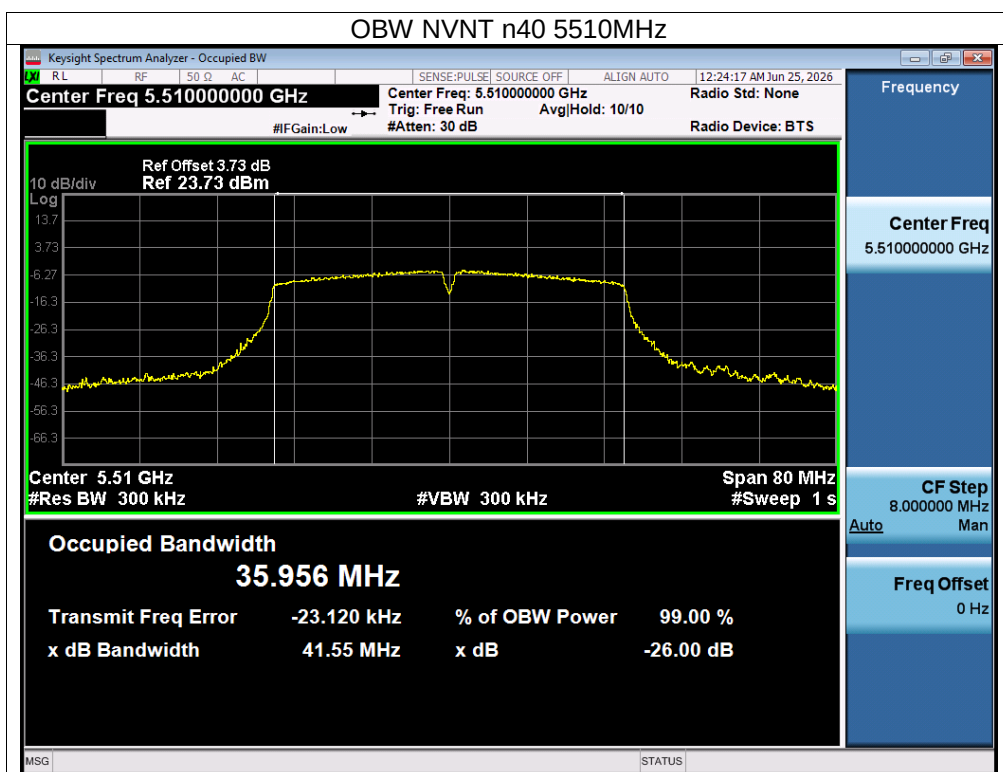
| Condition | Mode | Frequency (MHz) | 99% OBW (MHz) |               |       | Verdict |
|-----------|------|-----------------|---------------|---------------|-------|---------|
|           |      |                 | ANT A         | ANT B         | Limit |         |
| NVNT      | a    | 5500            | 16.568        | 16.471        | 20    | Pass    |
| NVNT      | a    | 5600            | 16.577        | 16.493        | 20    | Pass    |
| NVNT      | a    | 5700            | 16.622        | 16.483        | 20    | Pass    |
| NVNT      | n20  | 5500            | 17.697        | 17.684        | 20    | Pass    |
| NVNT      | n20  | 5600            | 17.704        | 17.716        | 20    | Pass    |
| NVNT      | n20  | 5700            | 17.729        | 17.705        | 20    | Pass    |
| NVNT      | n40  | 5510            | 35.956        | 35.984        | 40    | Pass    |
| NVNT      | n40  | 5590            | 35.954        | 35.975        | 40    | Pass    |
| NVNT      | n40  | 5670            | 35.964        | 35.957        | 40    | Pass    |
| NVNT      | ac20 | 5500            | 17.716        | 17.705        | 20    | Pass    |
| NVNT      | ac20 | 5600            | 17.724        | 17.724        | 20    | Pass    |
| NVNT      | ac20 | 5700            | 17.736        | 17.72         | 20    | Pass    |
| NVNT      | ac40 | 5510            | 35.985        | 35.979        | 40    | Pass    |
| NVNT      | ac40 | 5590            | 35.966        | 35.964        | 40    | Pass    |
| NVNT      | ac40 | 5670            | 35.97         | 35.982        | 40    | Pass    |
| NVNT      | ac80 | 5530            | 75.229        | 75.181        | 80    | Pass    |
| NVNT      | ac80 | 5610            | 75.229        | 75.262        | 80    | Pass    |
| NVNT      | ax20 | 5500            | 18.907        | 18.907        | 20    | Pass    |
| NVNT      | ax20 | 5600            | 18.9          | 18.917        | 20    | Pass    |
| NVNT      | ax20 | 5700            | 18.92         | 18.913        | 20    | Pass    |
| NVNT      | ax40 | 5510            | 37.581        | 37.565        | 40    | Pass    |
| NVNT      | ax40 | 5590            | 37.55         | 37.575        | 40    | Pass    |
| NVNT      | ax40 | 5670            | 37.558        | 37.574        | 40    | Pass    |
| NVNT      | ax80 | 5530            | 76.717        | 76.774        | 80    | Pass    |
| NVNT      | ax80 | 5610            | <b>76.839</b> | <b>76.811</b> | 80    | Pass    |

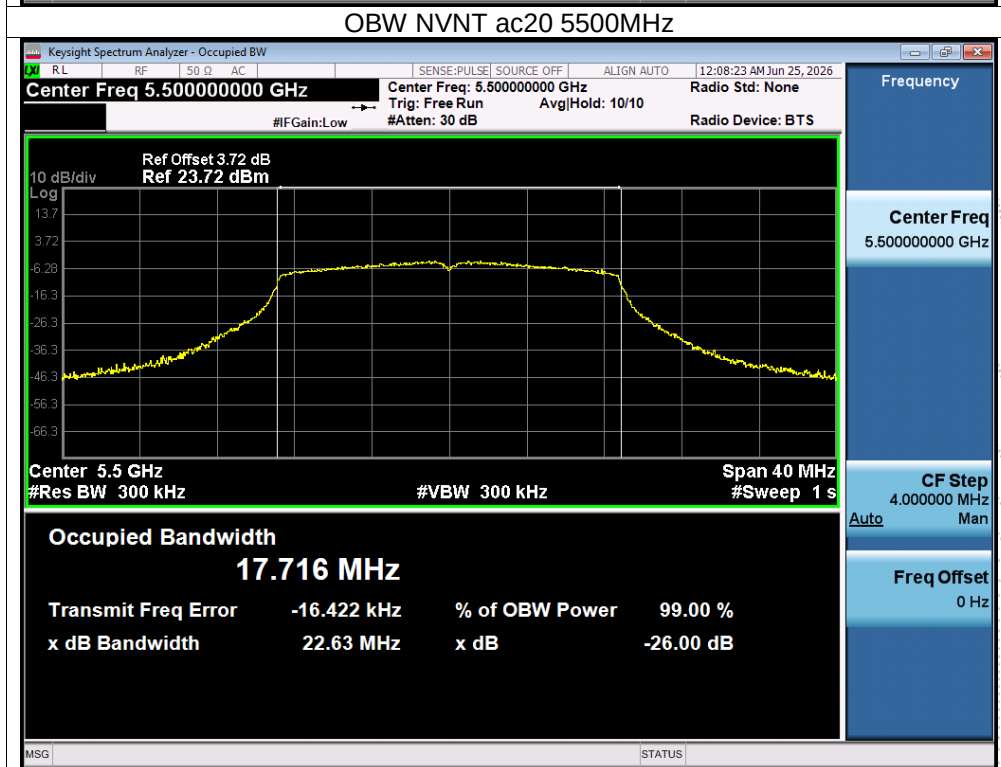
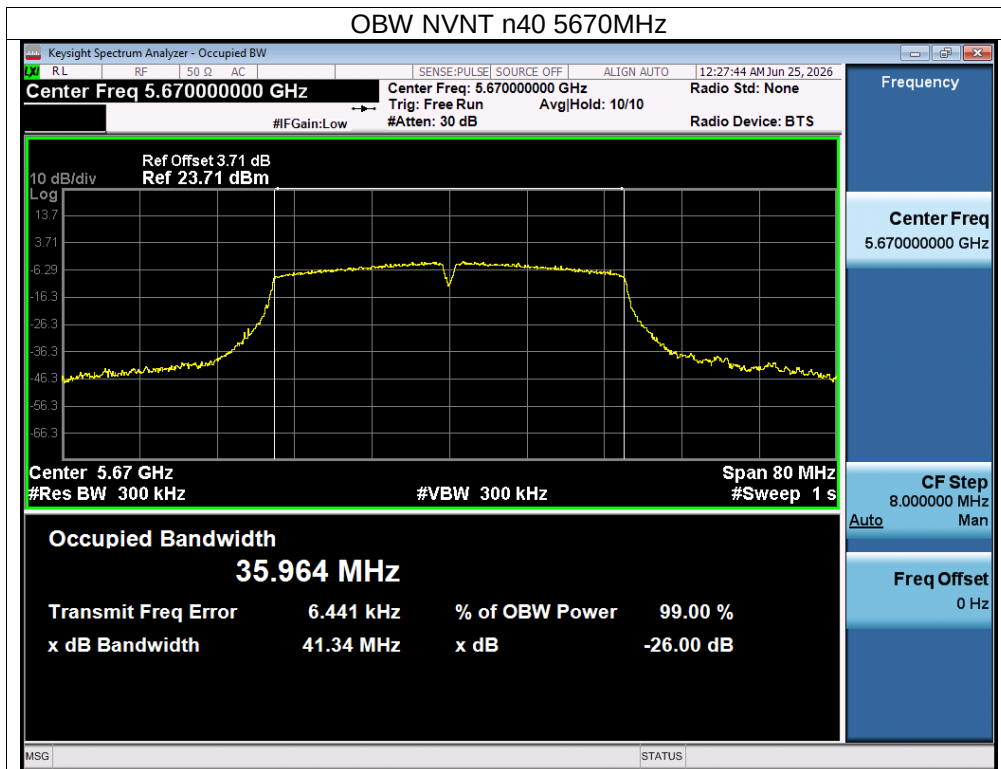
Note: A(B) Represent the value of antenna A and B, the worst data is Antenna A, only shown Antenna A Plot.

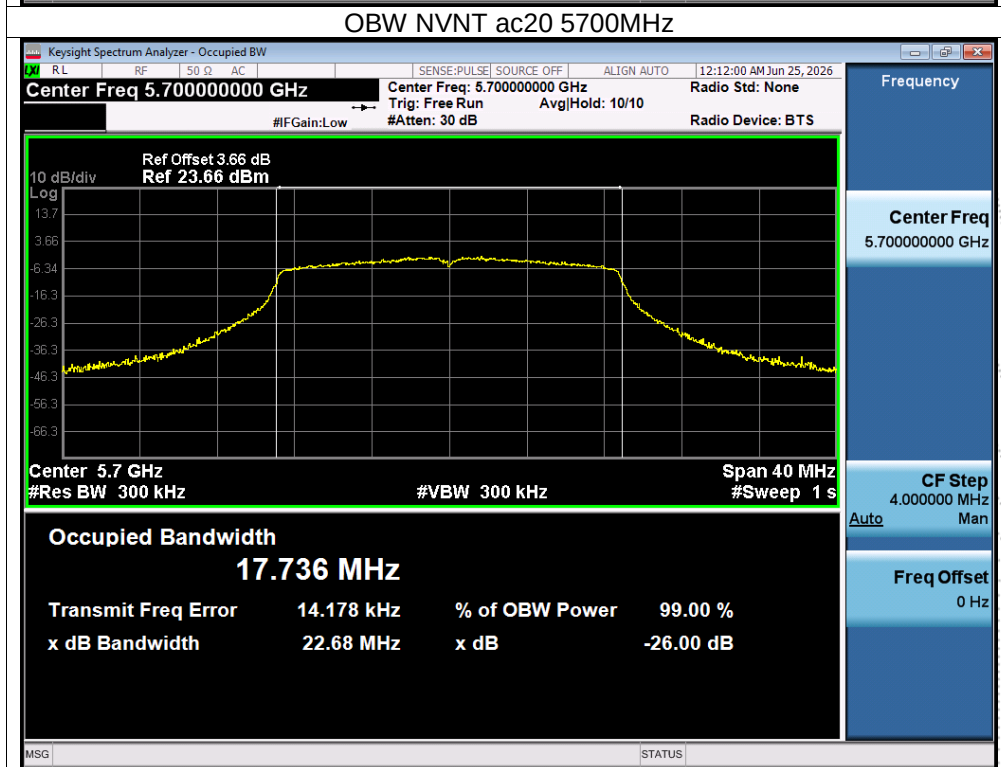
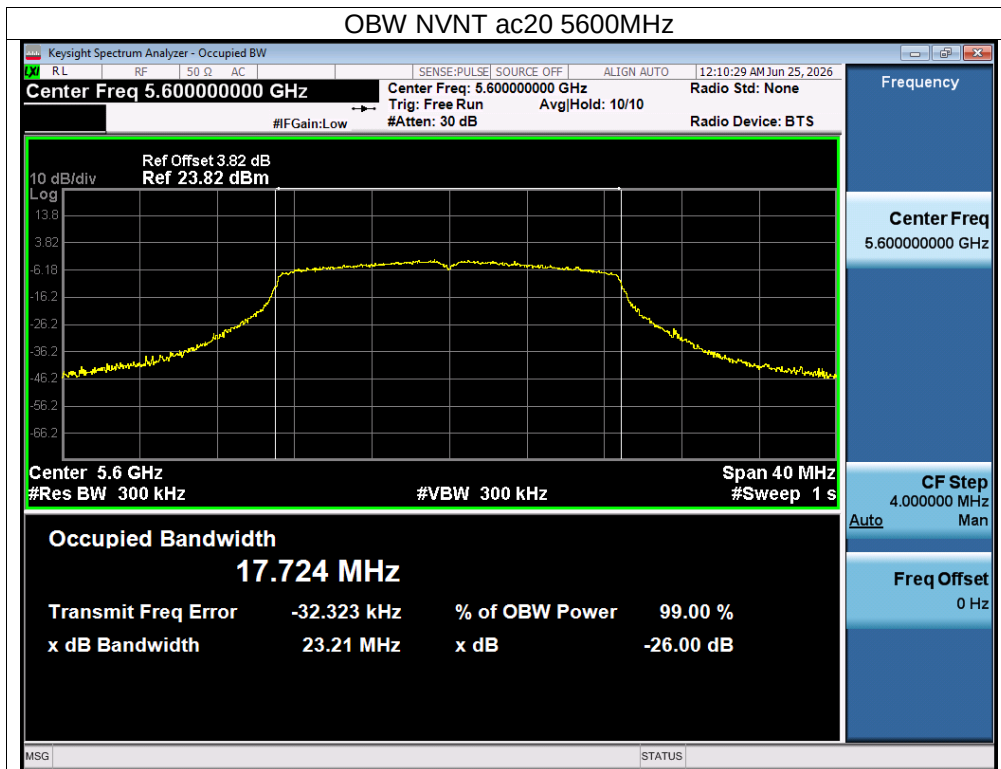


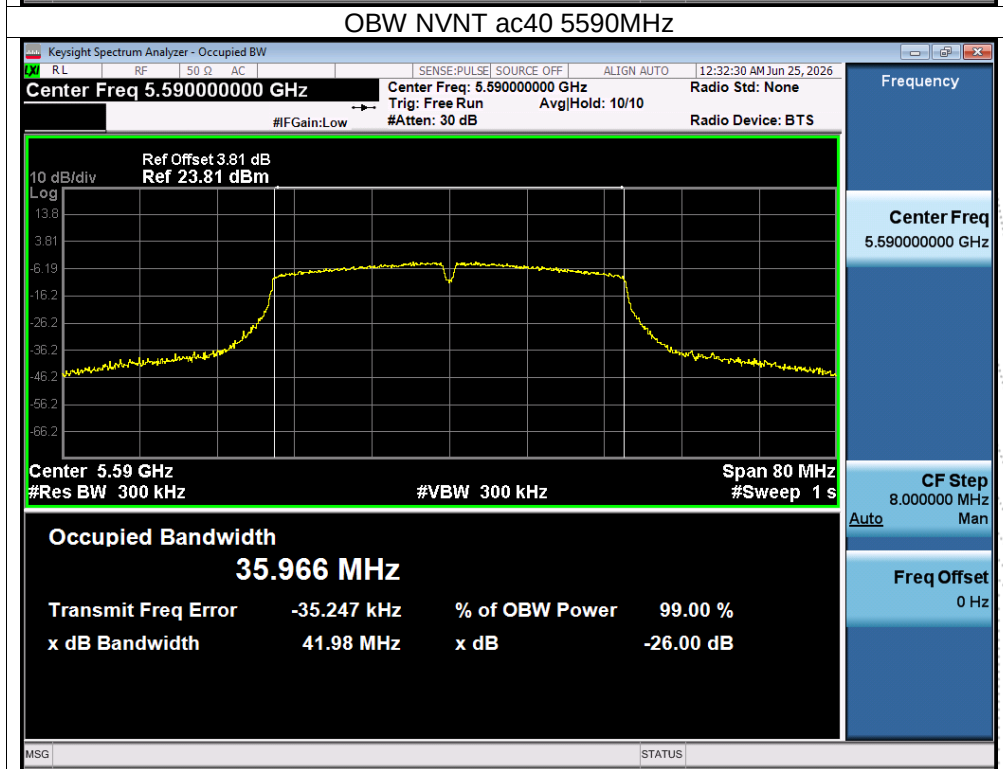
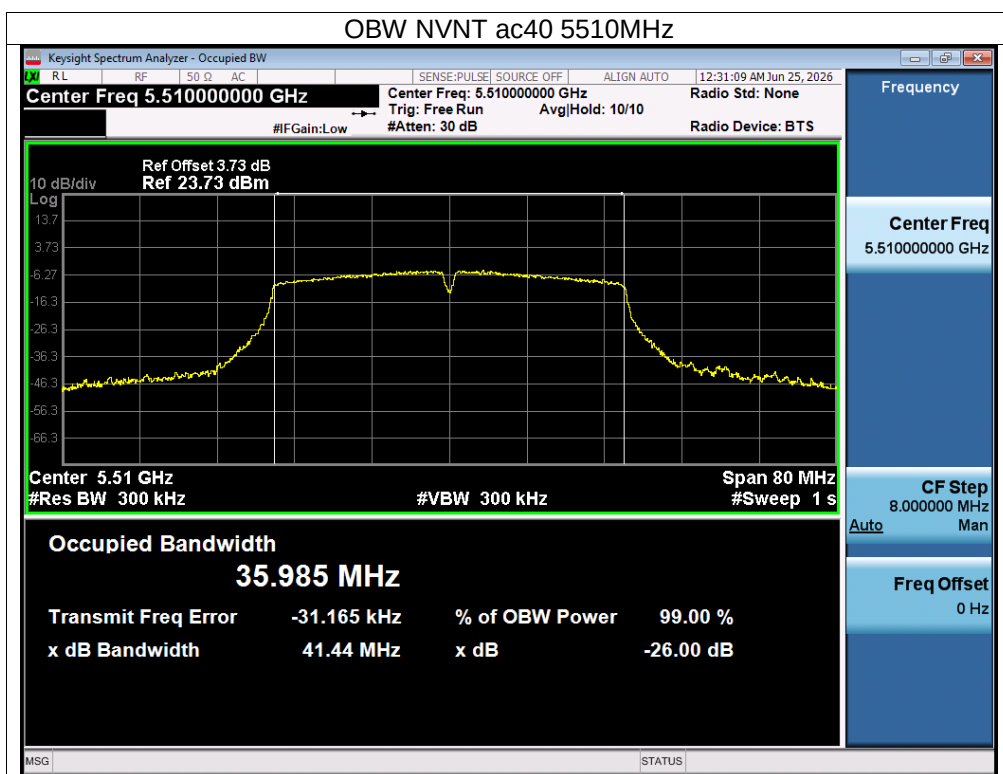


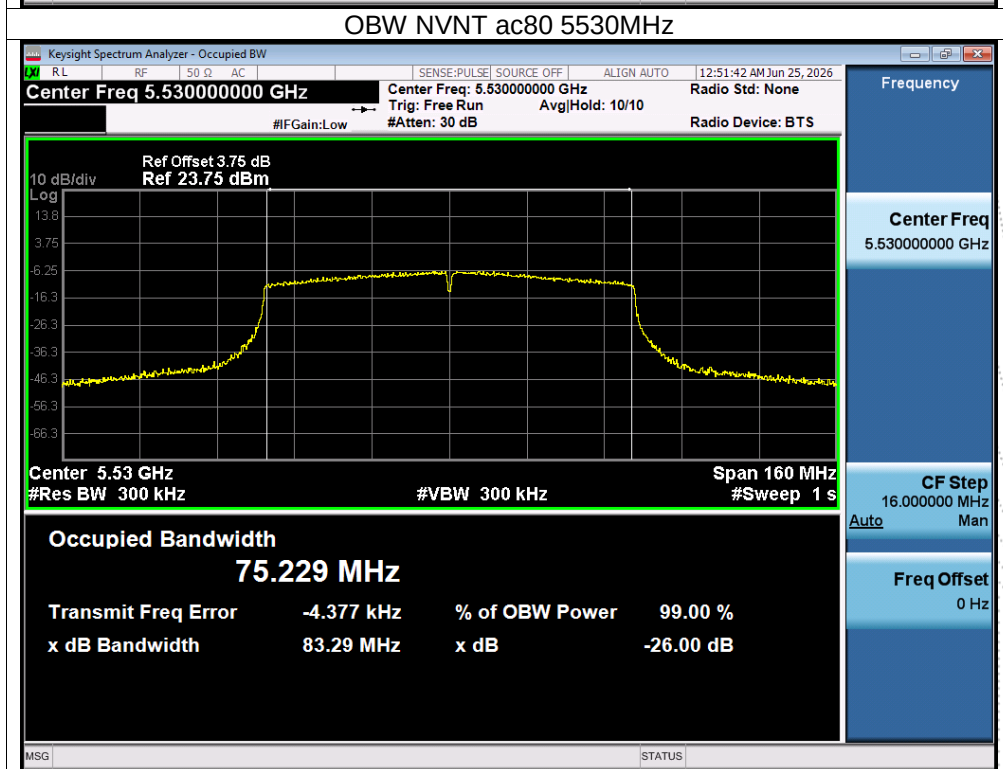
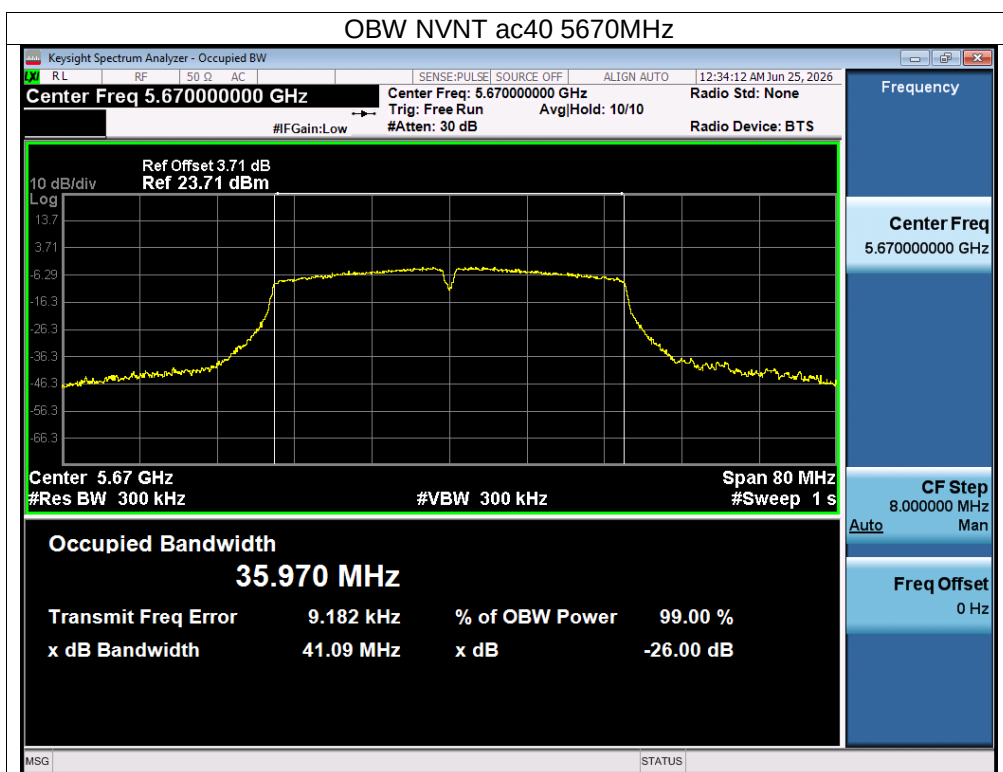


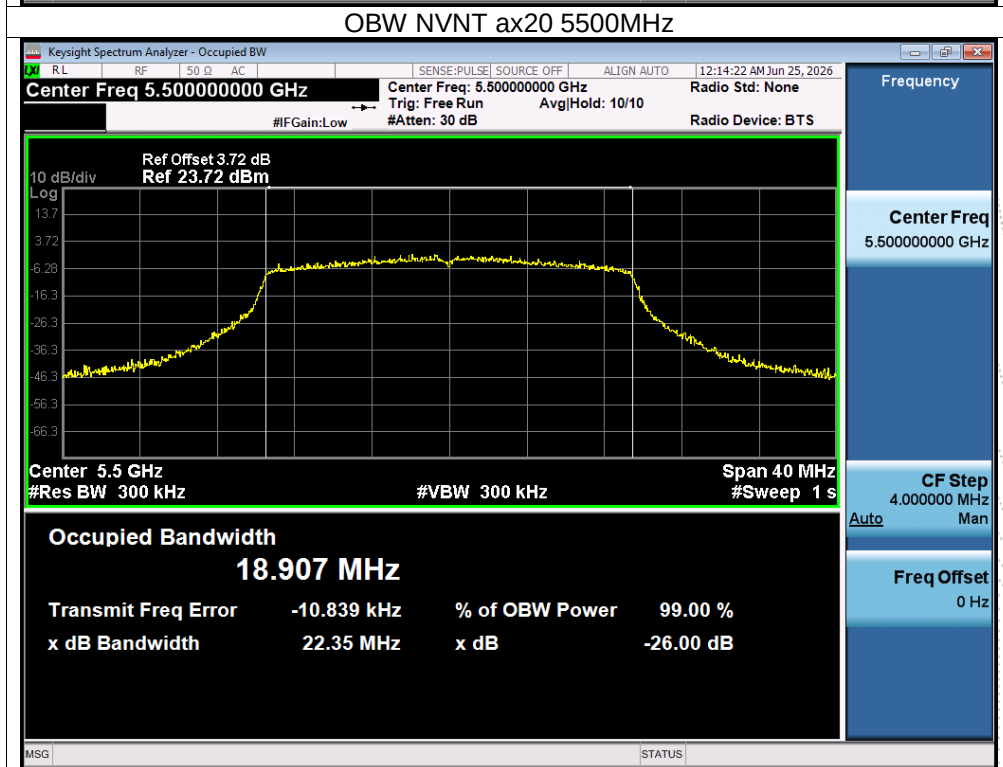
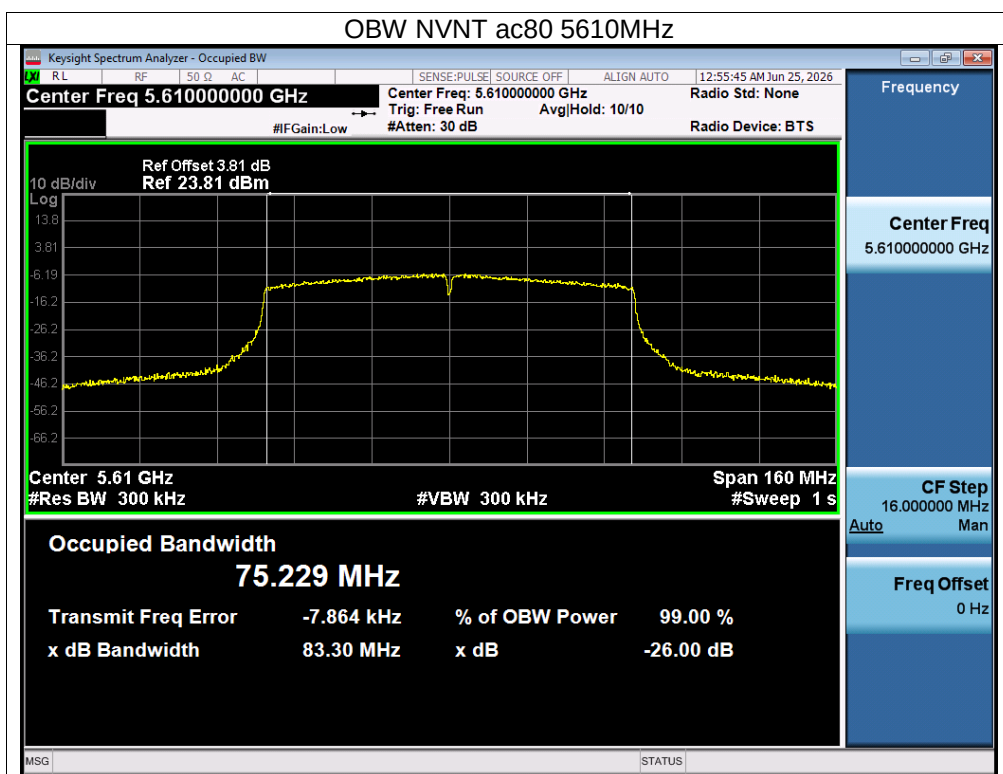


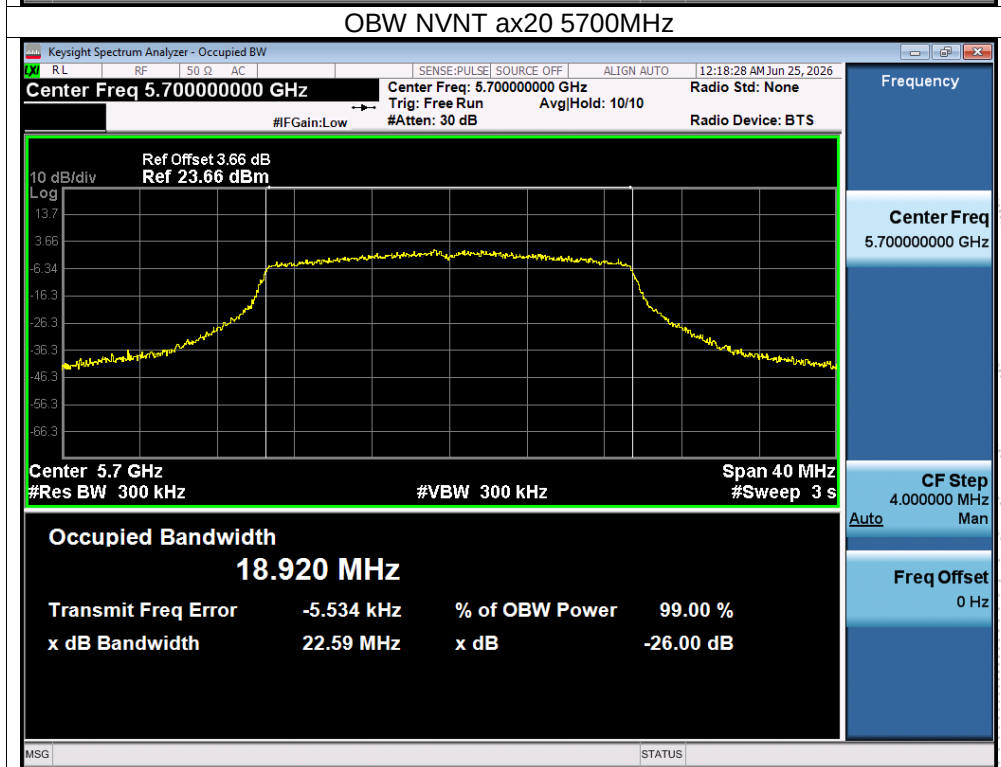
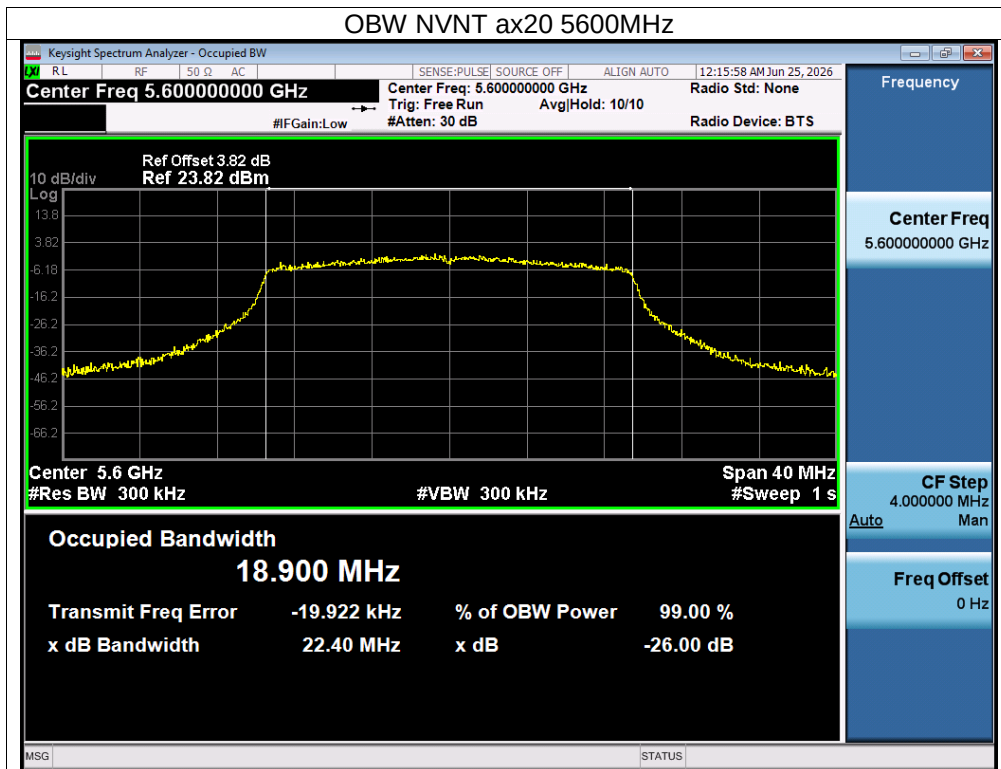


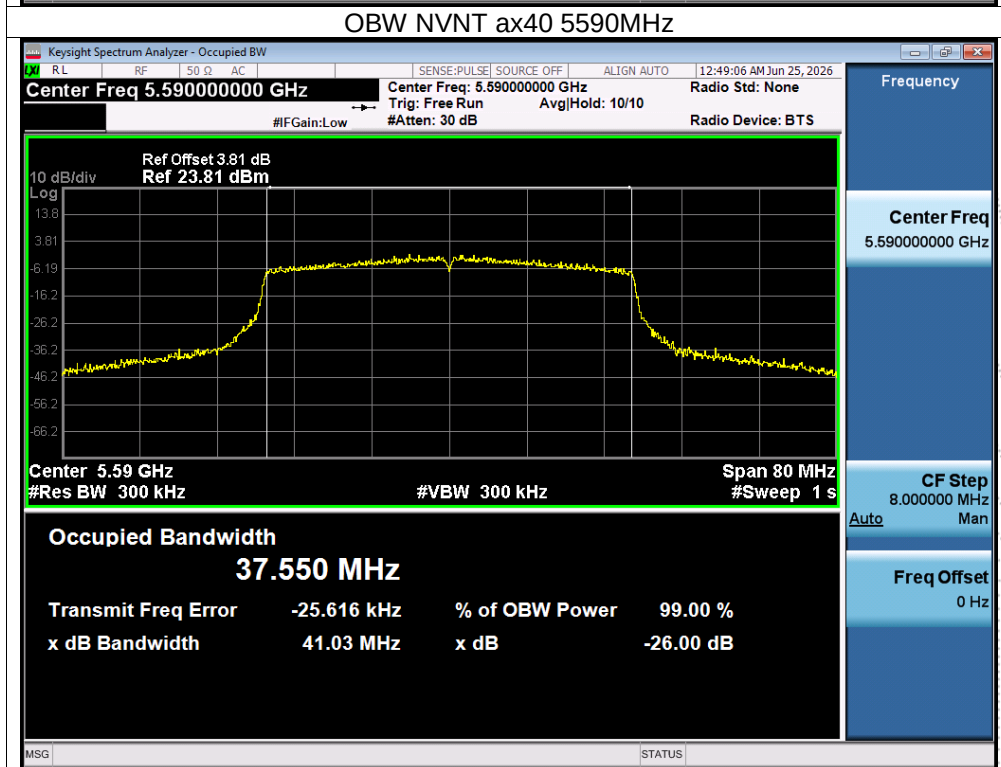
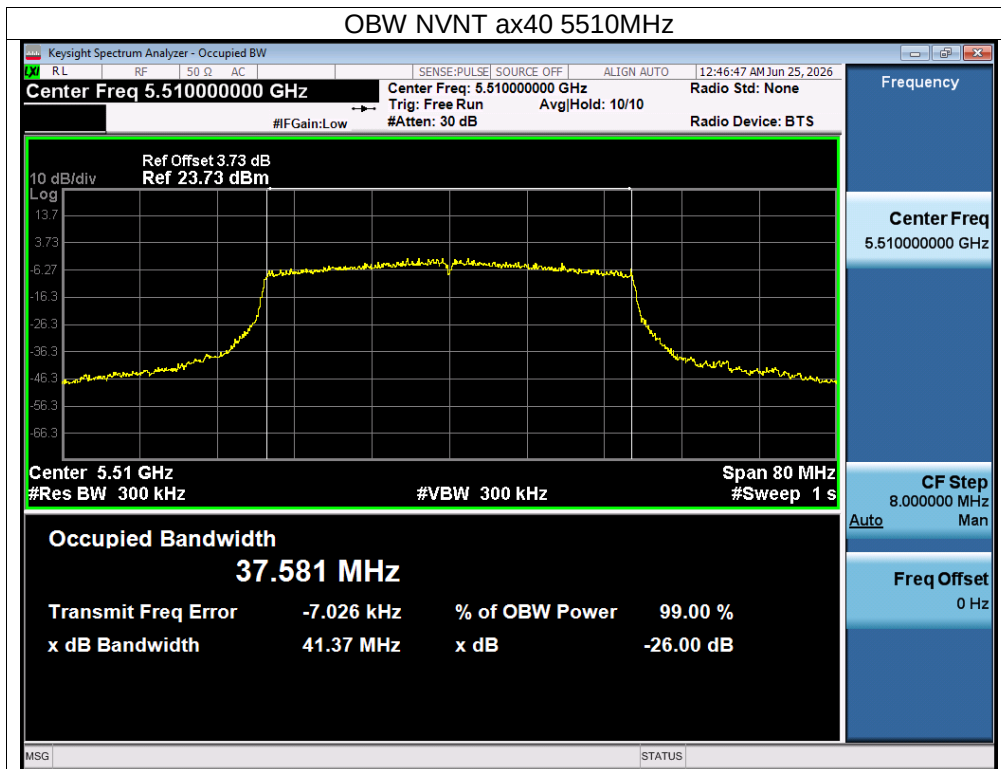


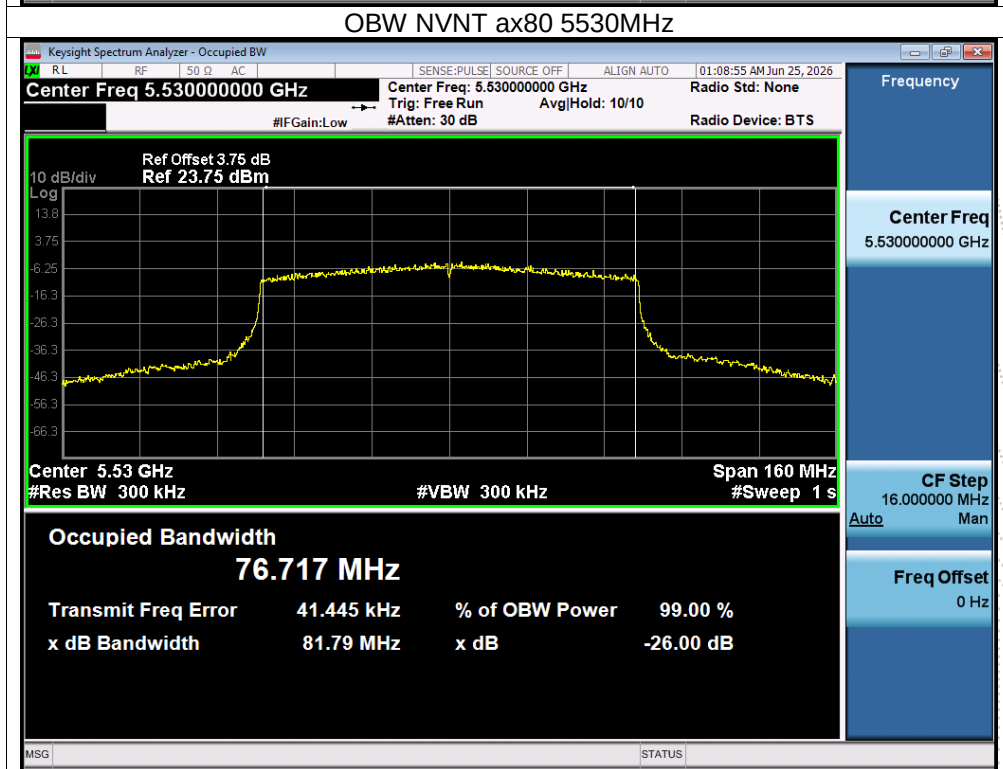
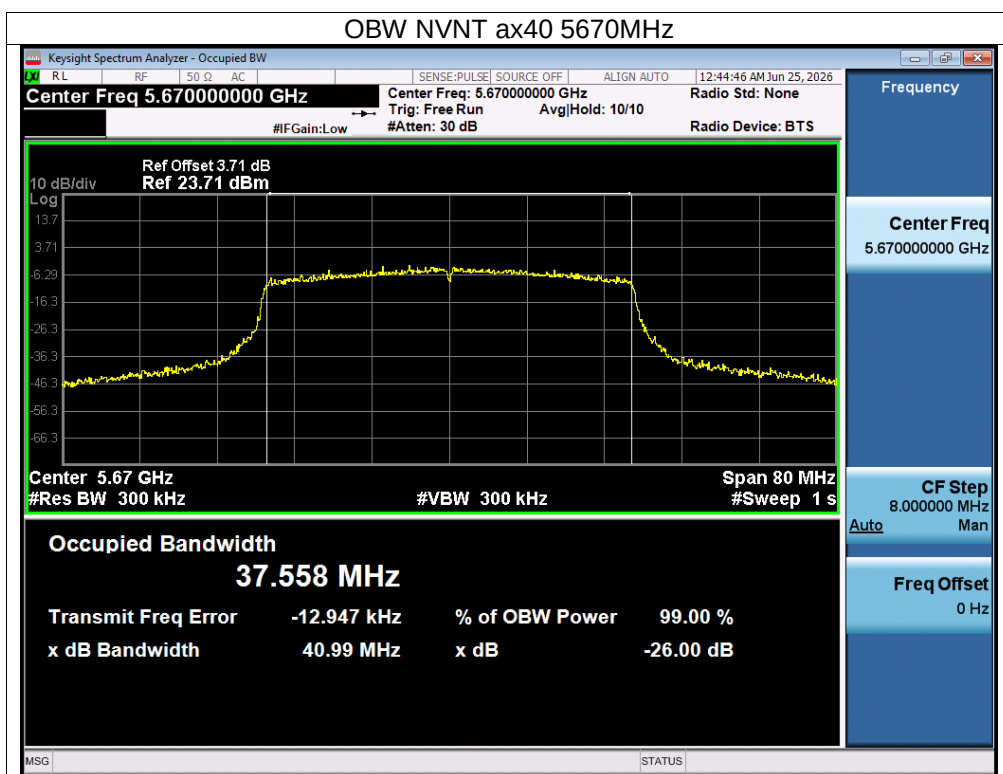


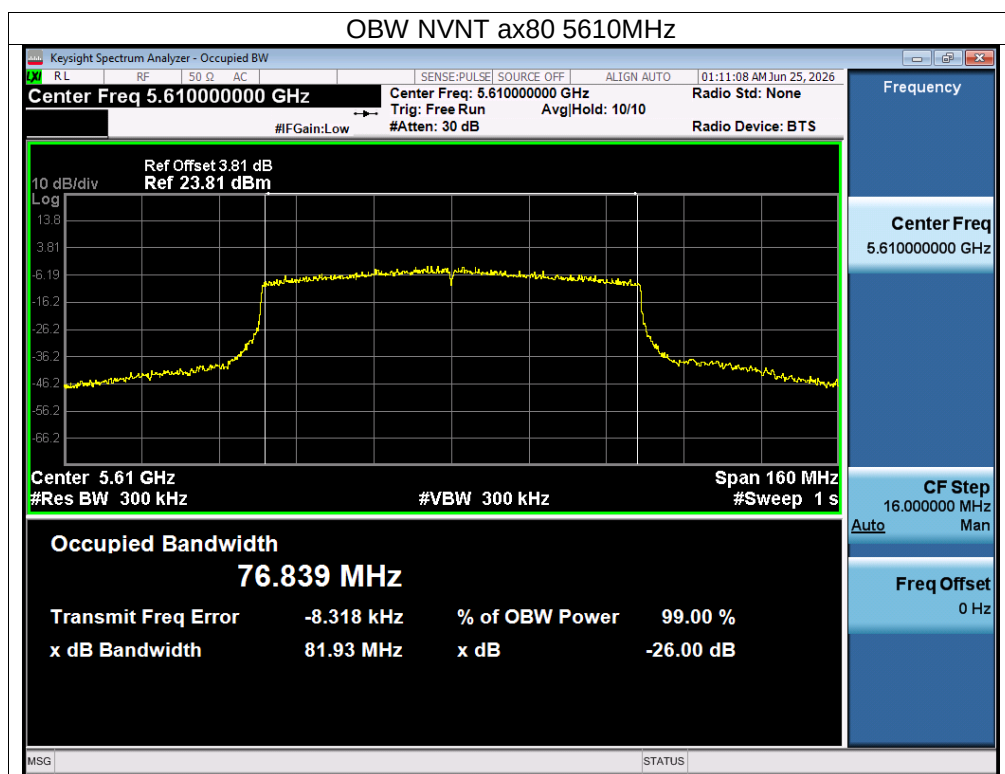










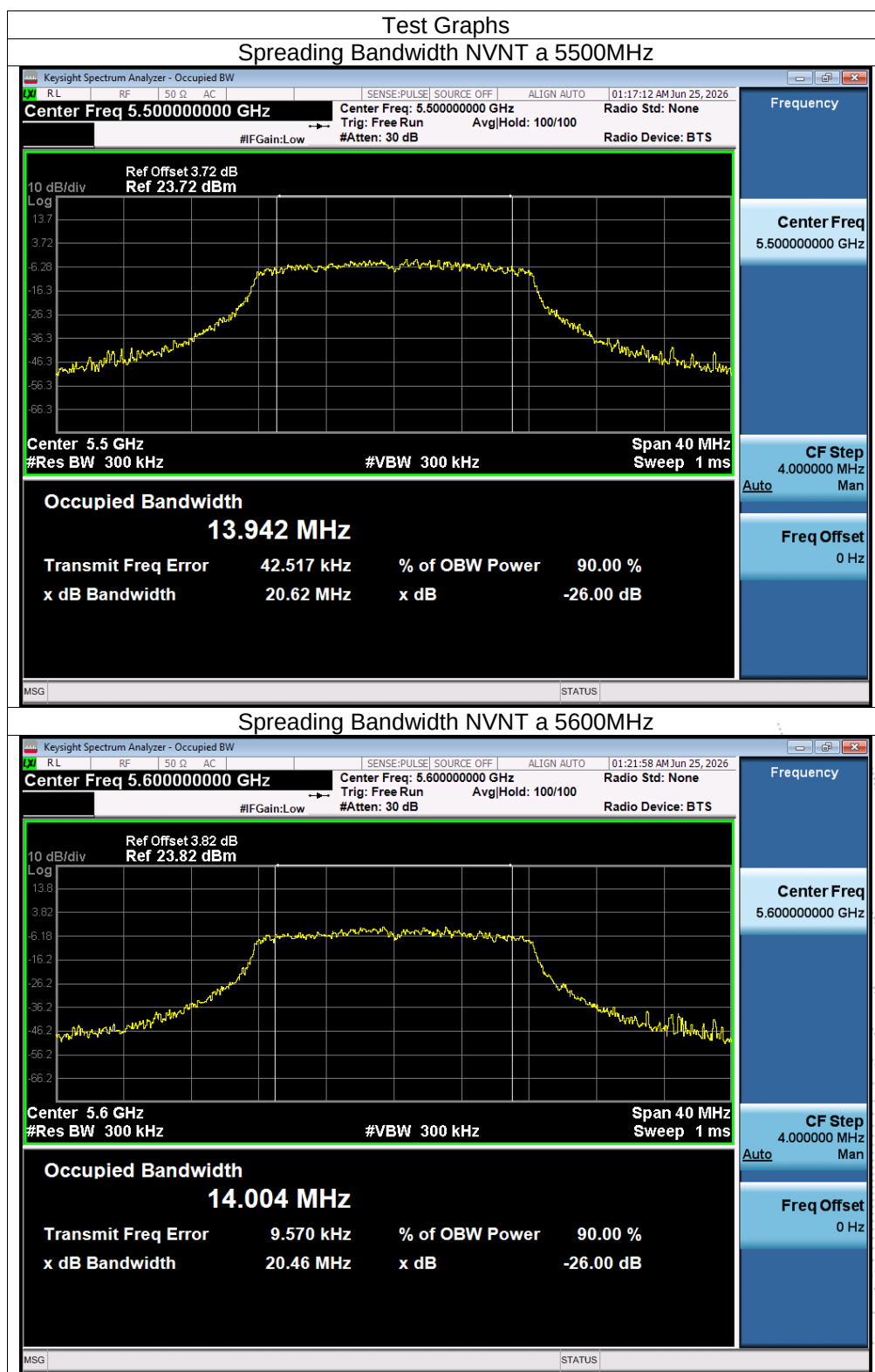


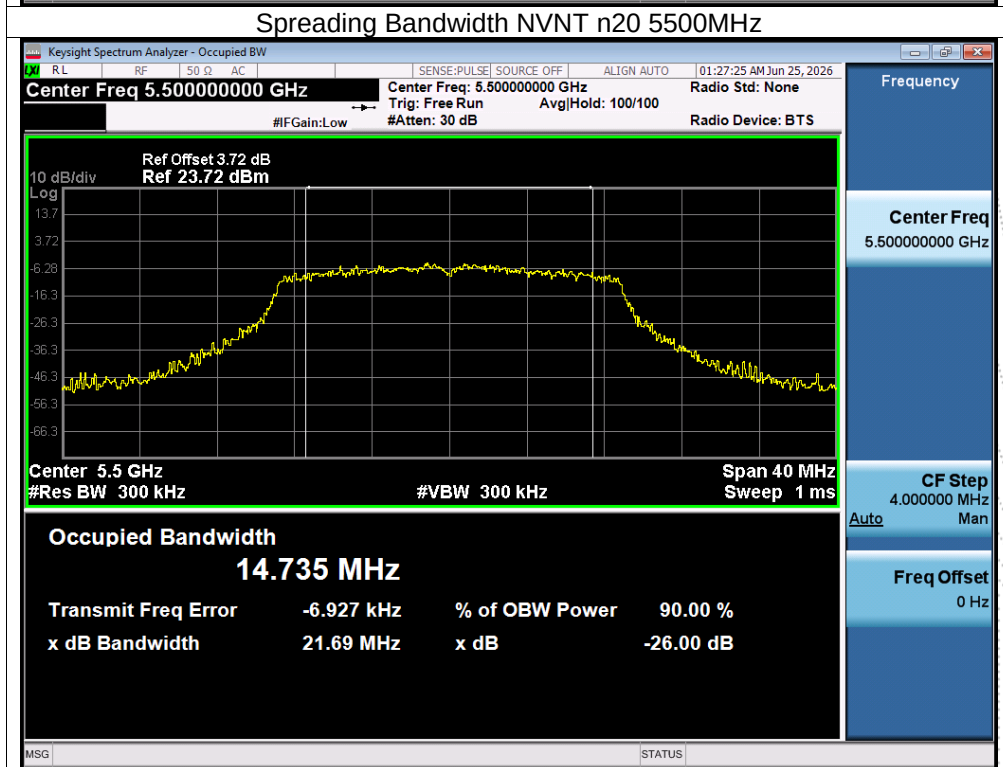
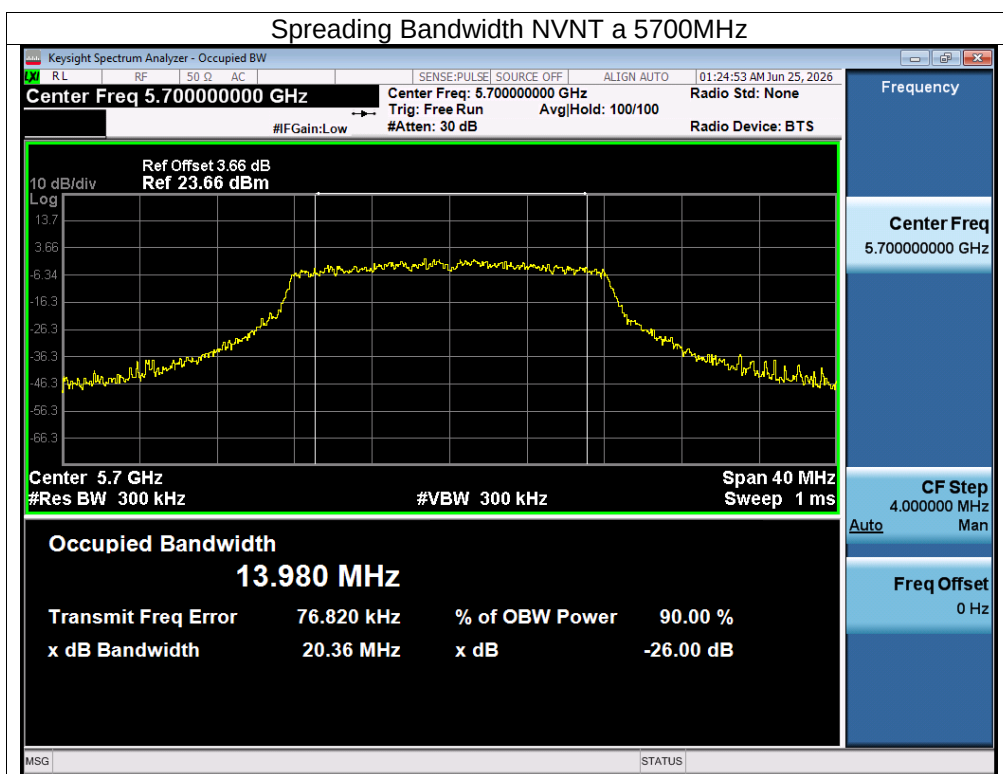
|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

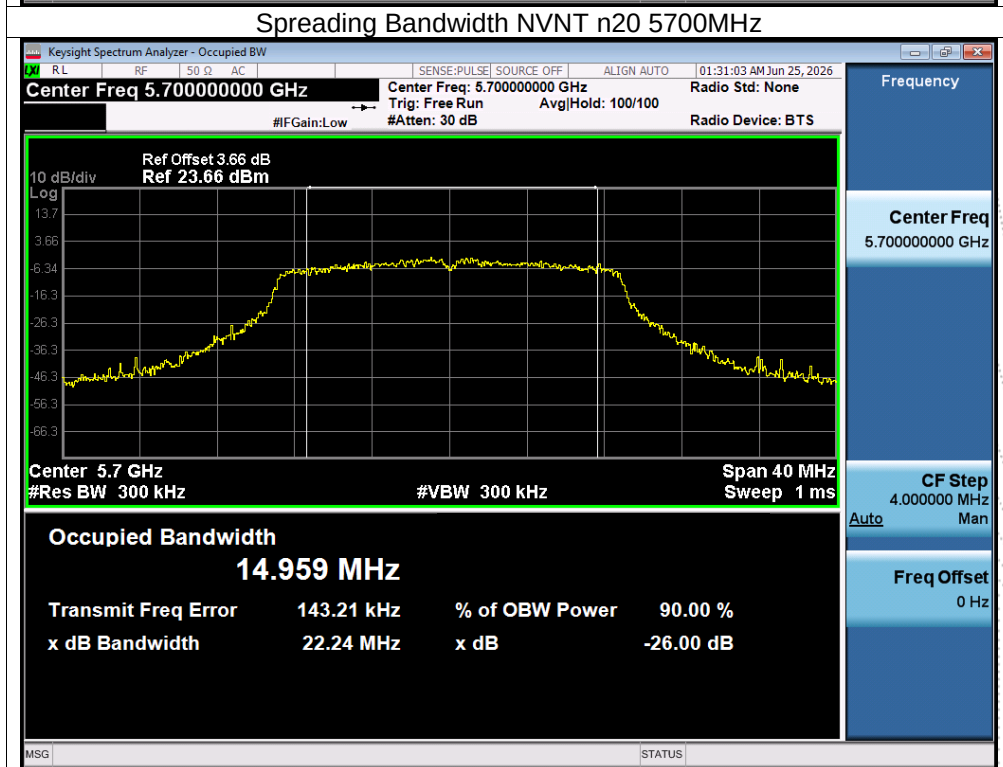
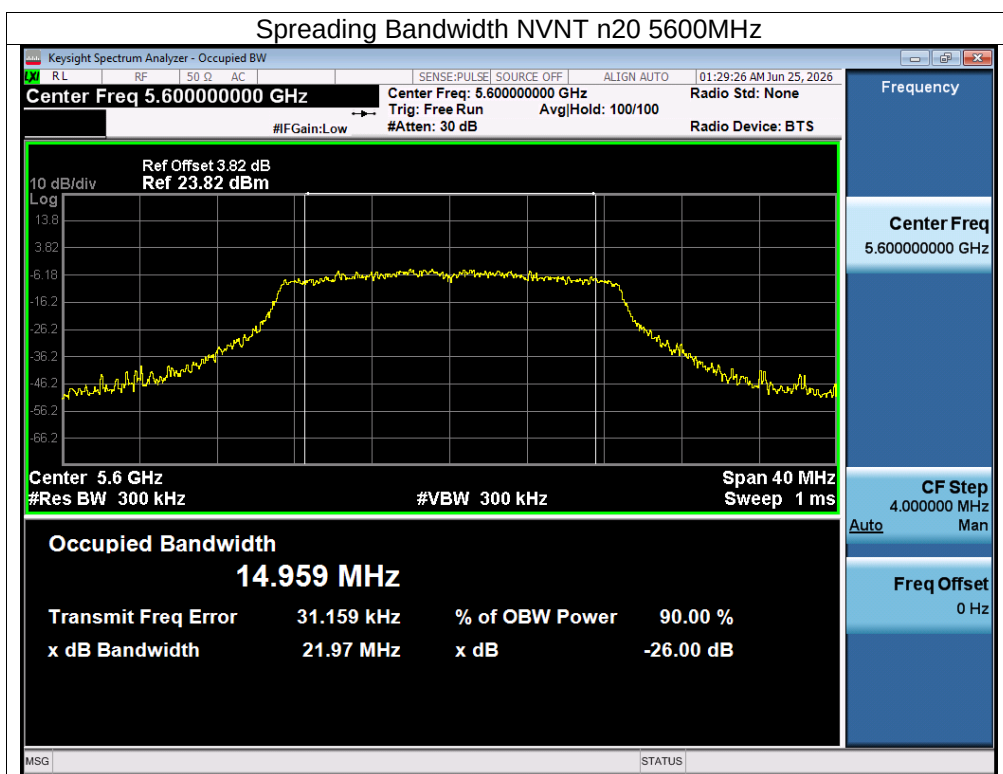
| Condition | Mode | Frequency (MHz) | 90% OBW (MHz) |               |       | Verdict |
|-----------|------|-----------------|---------------|---------------|-------|---------|
|           |      |                 | ANT A         | ANT B         | Limit |         |
| NVNT      | a    | 5500            | 13.97         | 13.942        | 0.5   | Pass    |
| NVNT      | a    | 5600            | 14.007        | 14.004        | 0.5   | Pass    |
| NVNT      | a    | 5700            | 13.993        | 13.98         | 0.5   | Pass    |
| NVNT      | n20  | 5500            | 14.808        | 14.735        | 0.5   | Pass    |
| NVNT      | n20  | 5600            | 14.9          | 14.959        | 0.5   | Pass    |
| NVNT      | n20  | 5700            | 14.8          | 14.959        | 0.5   | Pass    |
| NVNT      | n40  | 5510            | 30.413        | 30.559        | 0.5   | Pass    |
| NVNT      | n40  | 5590            | 30.432        | 30.457        | 0.5   | Pass    |
| NVNT      | n40  | 5670            | 30.515        | 30.498        | 0.5   | Pass    |
| NVNT      | ac20 | 5500            | 14.753        | 14.847        | 0.5   | Pass    |
| NVNT      | ac20 | 5600            | 14.789        | 14.918        | 0.5   | Pass    |
| NVNT      | ac20 | 5700            | 14.885        | 14.945        | 0.5   | Pass    |
| NVNT      | ac40 | 5510            | 30.336        | 30.481        | 0.5   | Pass    |
| NVNT      | ac40 | 5590            | 30.341        | 30.361        | 0.5   | Pass    |
| NVNT      | ac40 | 5670            | 30.375        | 30.236        | 0.5   | Pass    |
| NVNT      | ac80 | 5530            | 63.779        | 63.619        | 0.5   | Pass    |
| NVNT      | ac80 | 5610            | 63.979        | 64.053        | 0.5   | Pass    |
| NVNT      | ax20 | 5500            | 15.867        | 15.695        | 0.5   | Pass    |
| NVNT      | ax20 | 5600            | 15.903        | 15.952        | 0.5   | Pass    |
| NVNT      | ax20 | 5700            | 15.824        | 15.787        | 0.5   | Pass    |
| NVNT      | ax40 | 5510            | 31.446        | 31.696        | 0.5   | Pass    |
| NVNT      | ax40 | 5590            | 31.033        | 31.425        | 0.5   | Pass    |
| NVNT      | ax40 | 5670            | 31.848        | 31.589        | 0.5   | Pass    |
| NVNT      | ax80 | 5530            | <b>64.464</b> | 64.284        | 0.5   | Pass    |
| NVNT      | ax80 | 5610            | 64.097        | <b>64.798</b> | 0.5   | Pass    |

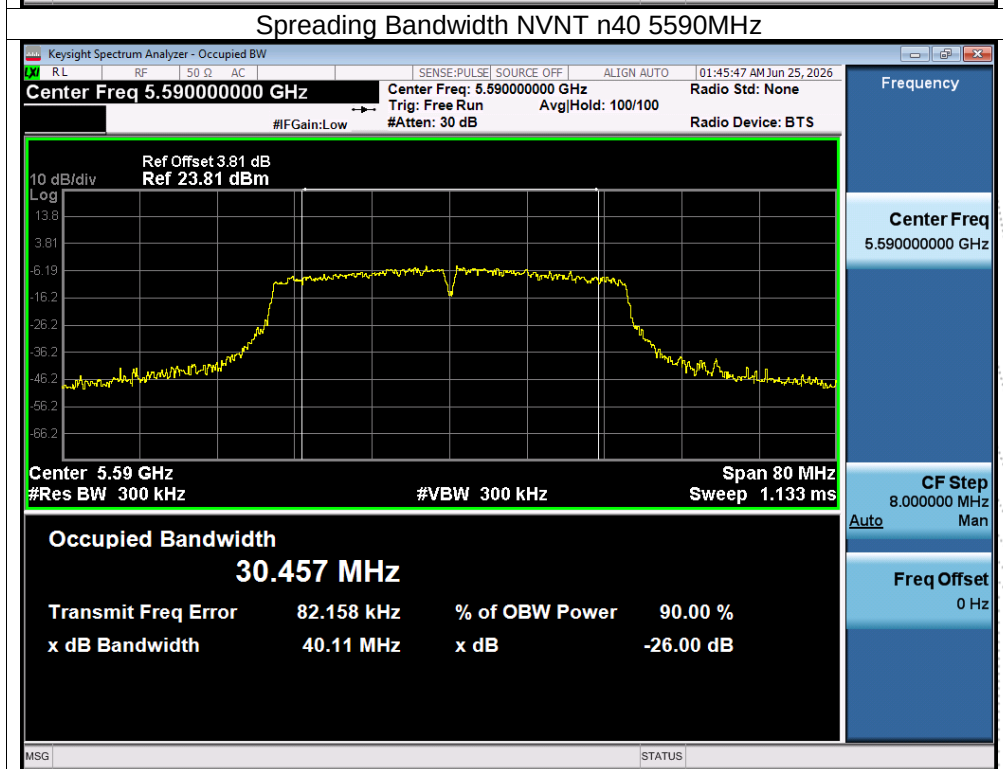
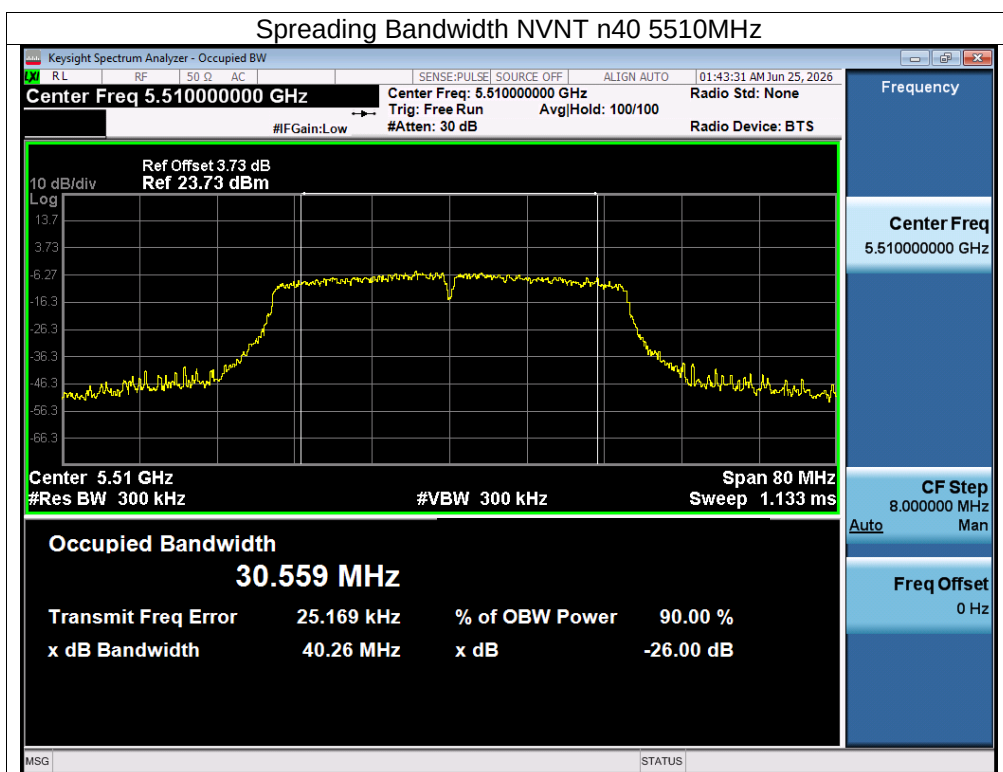
C T  
 3C  
 PPR  
 spor

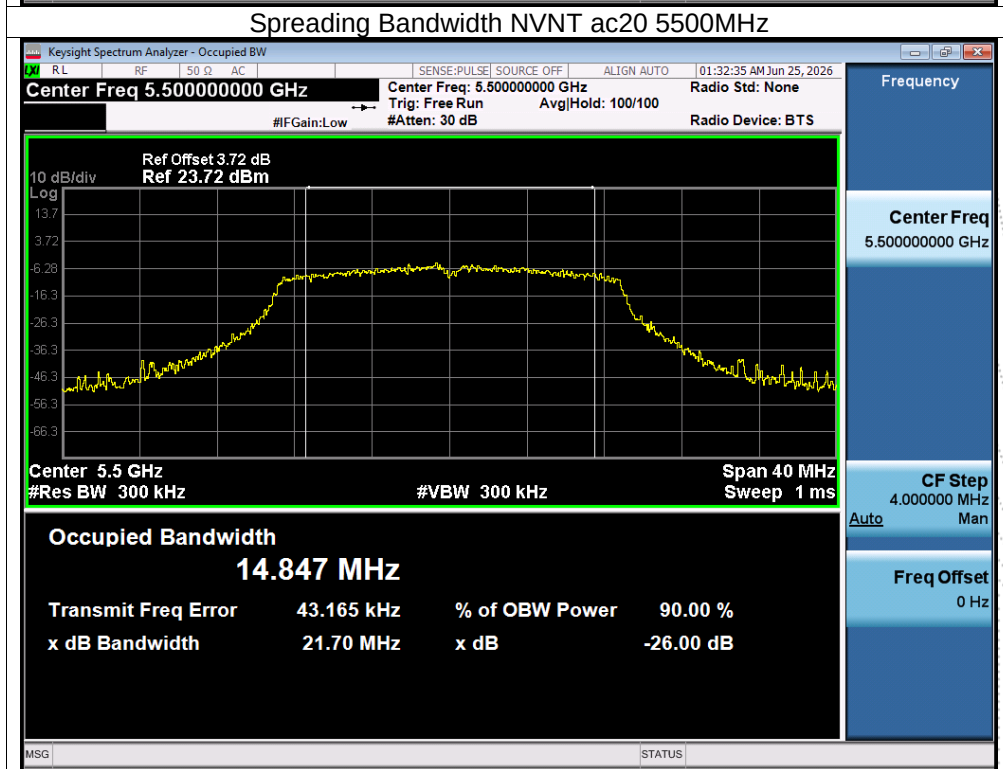
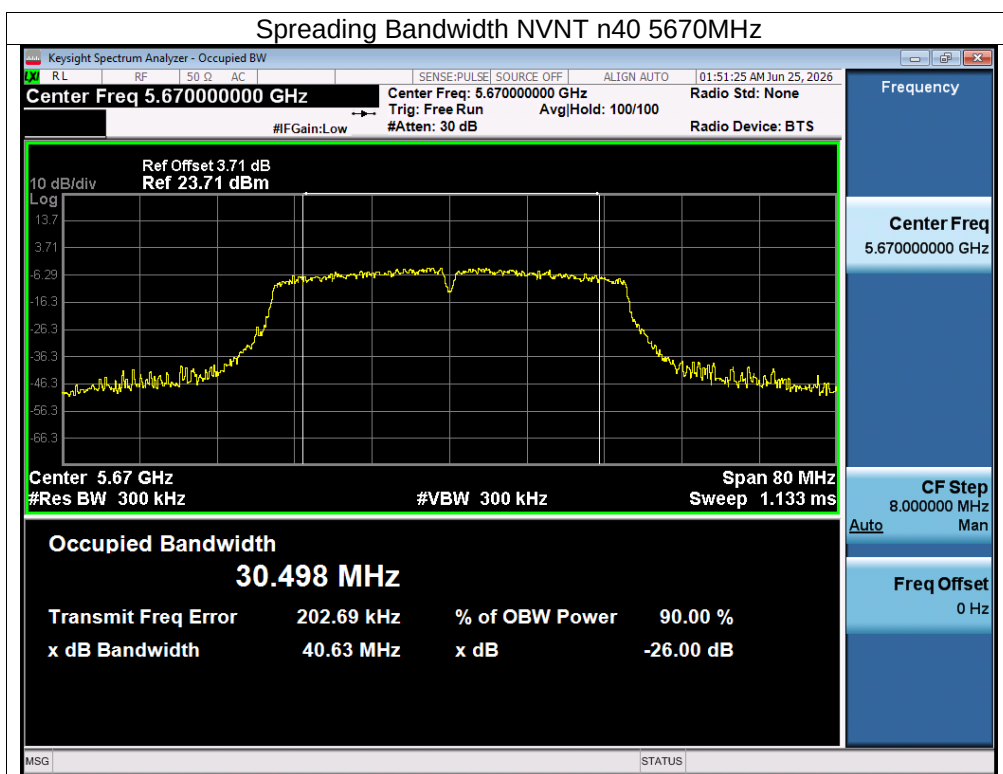
Note: A(B) Represent the value of antenna A and B, the worst data is Antenna B, only shown Antenna B Plot

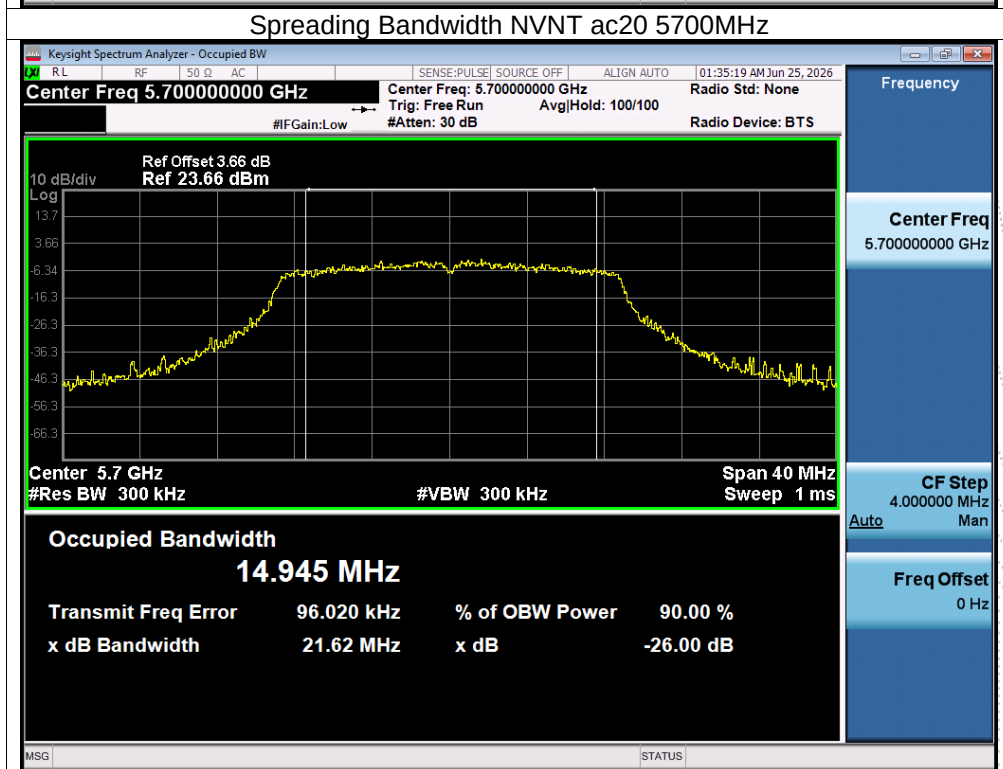
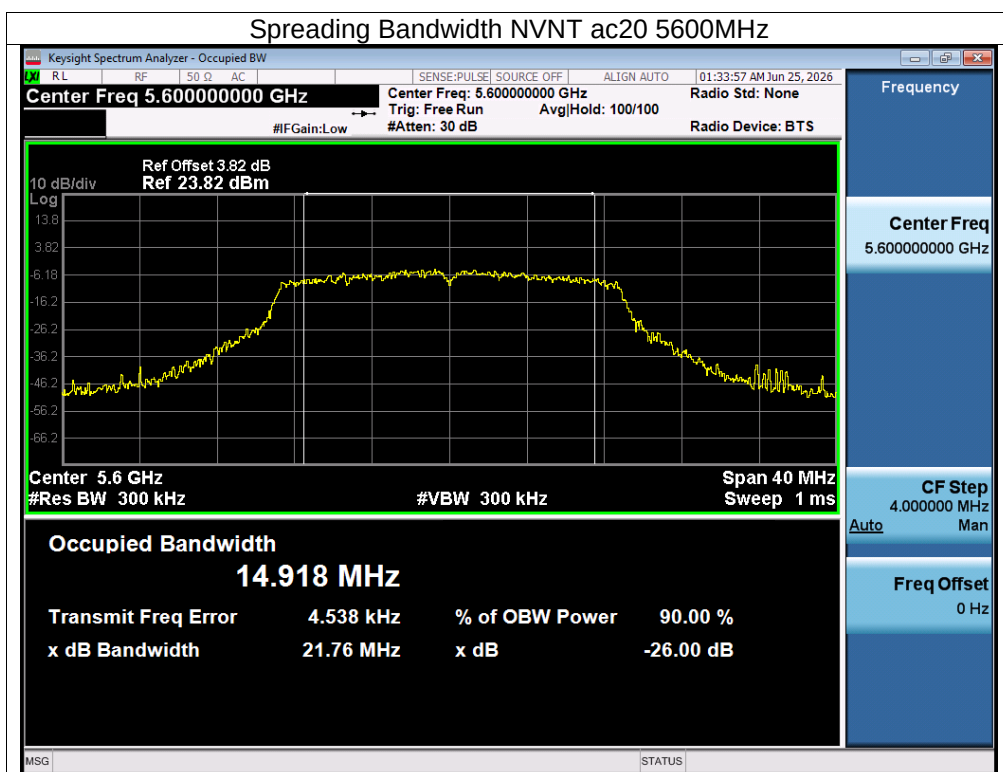


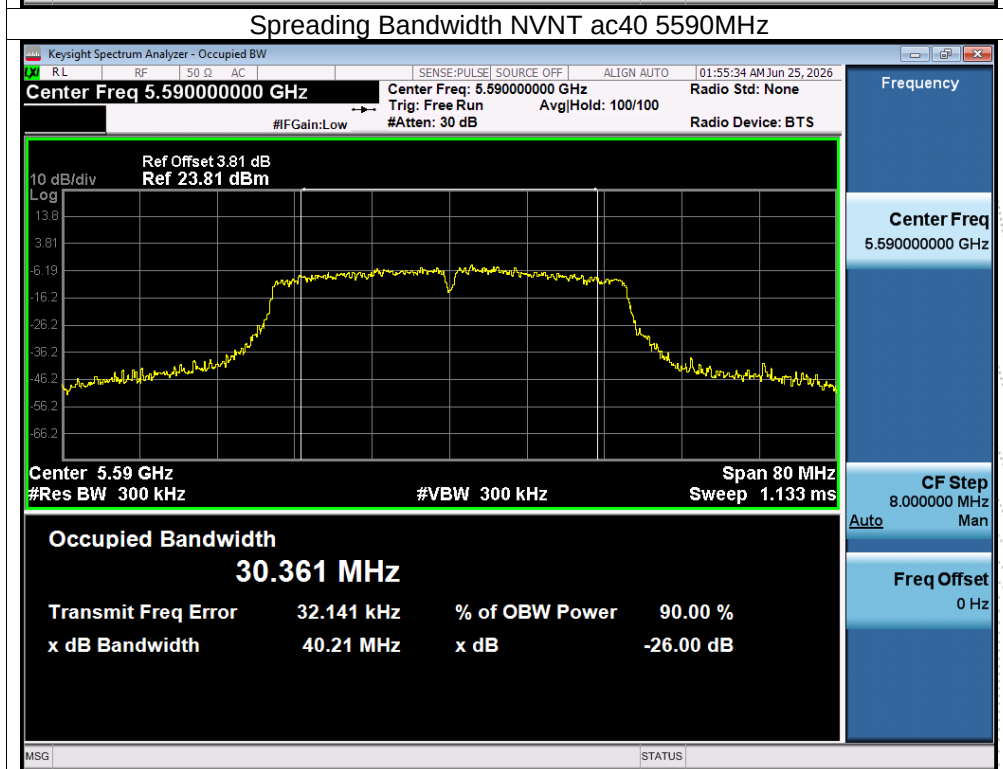
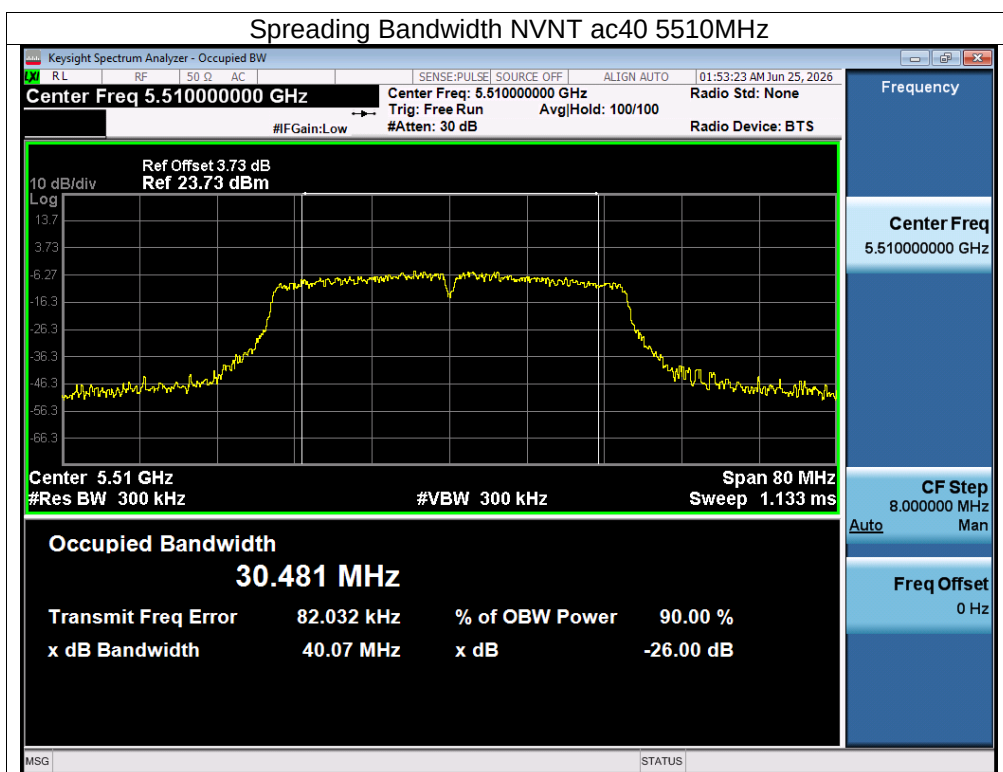


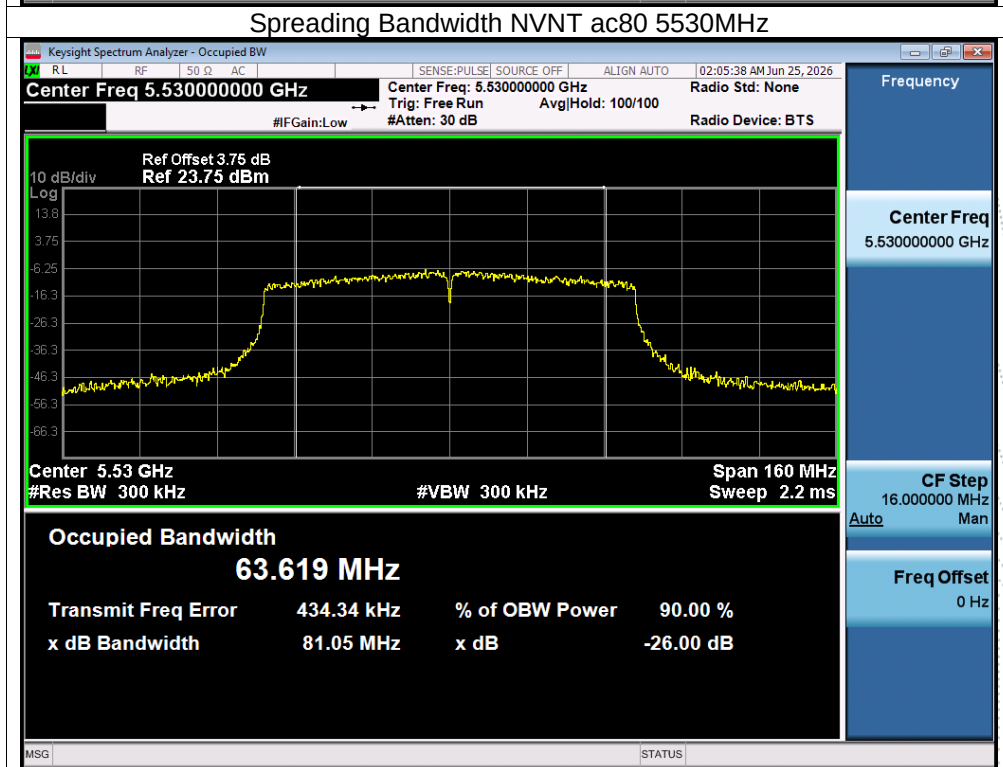
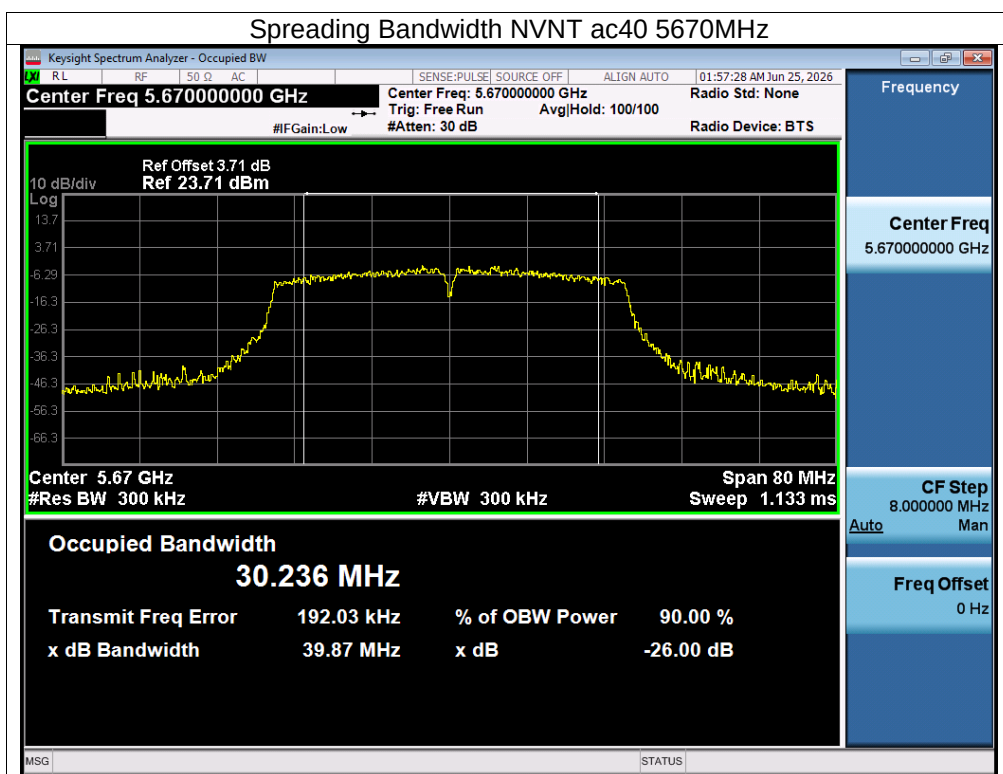


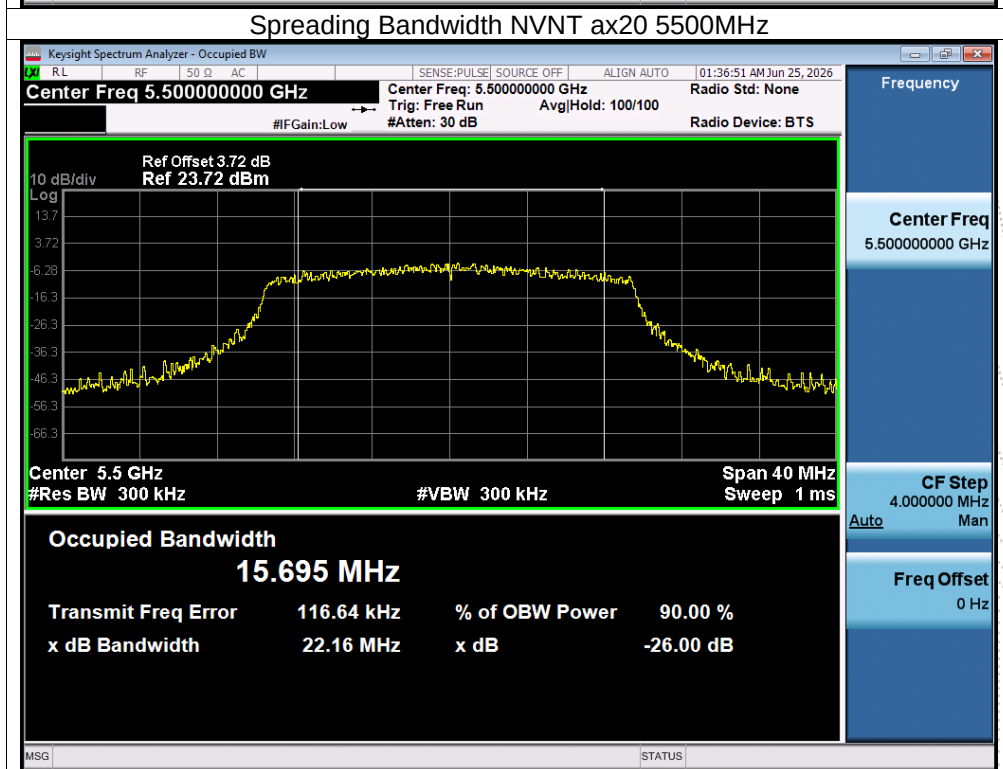
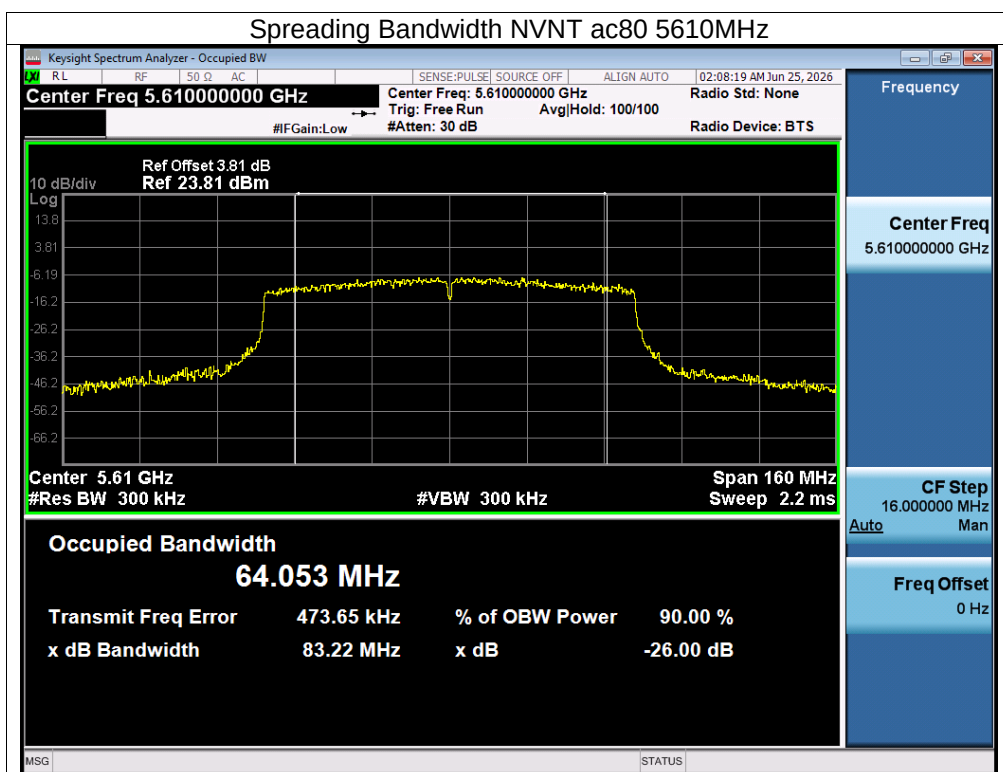


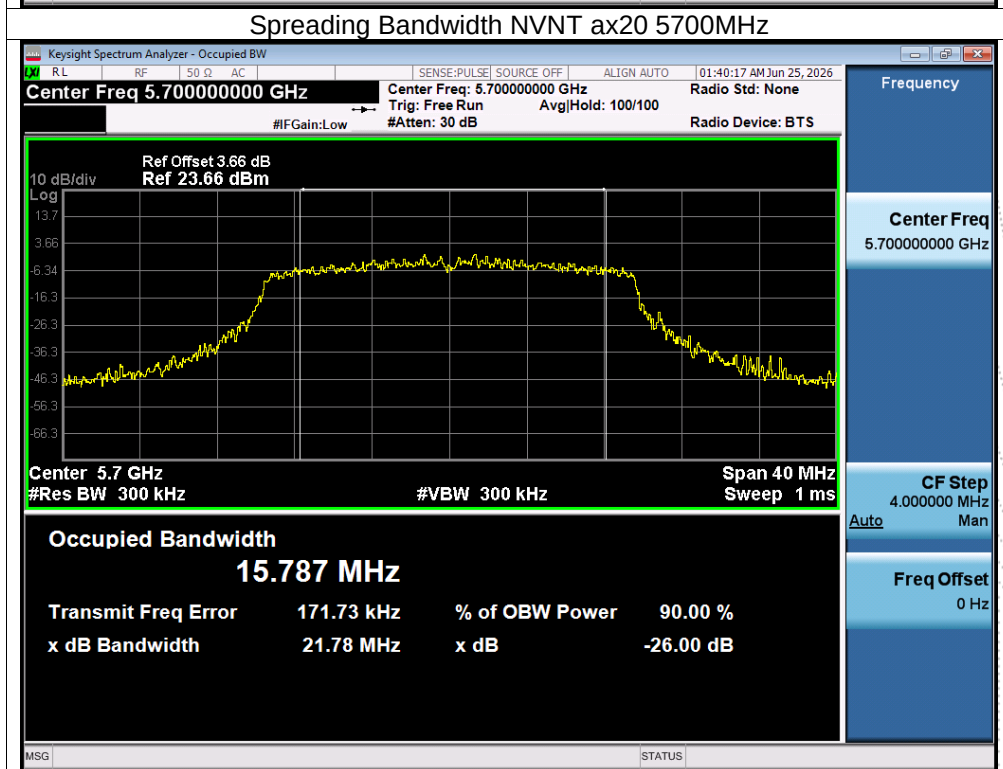
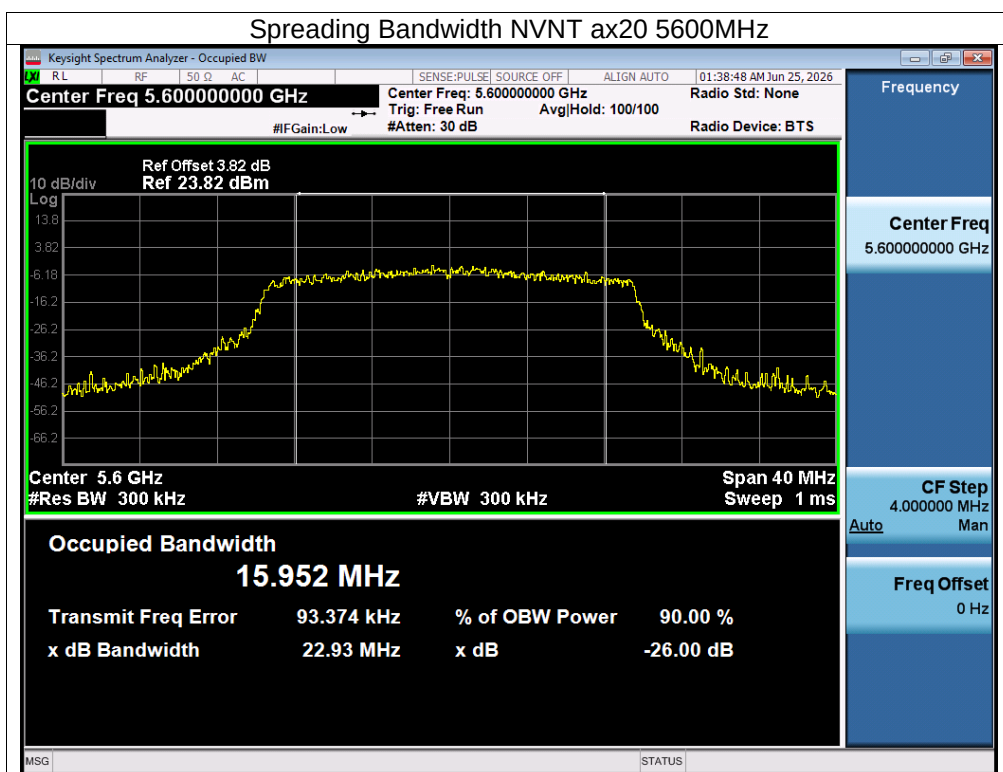


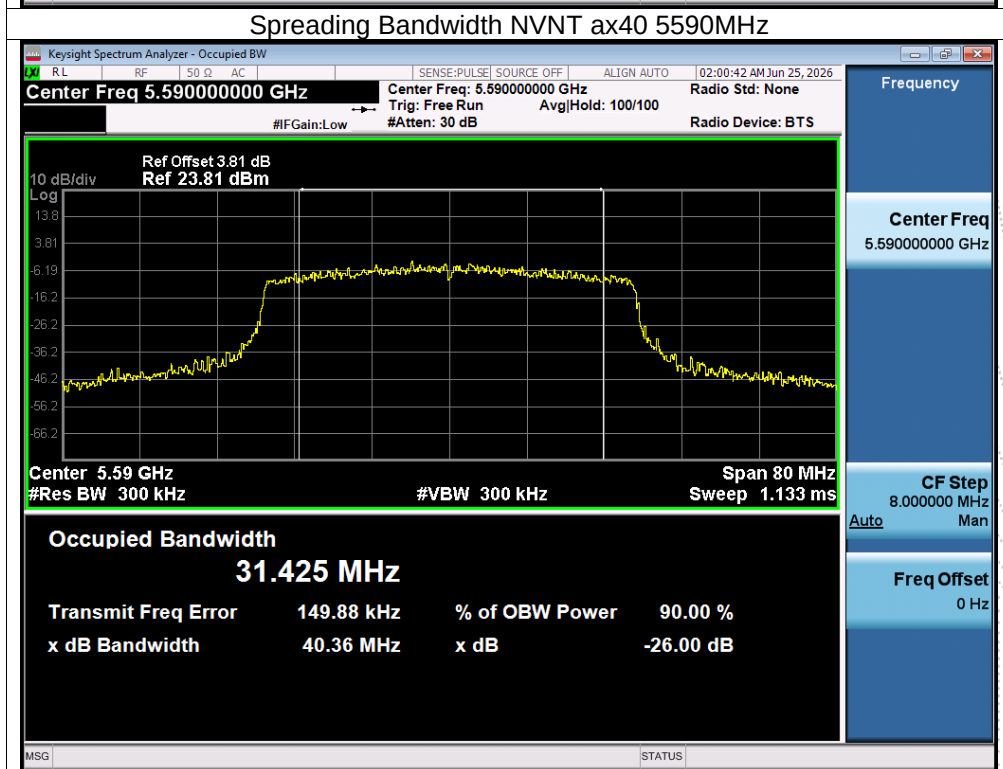
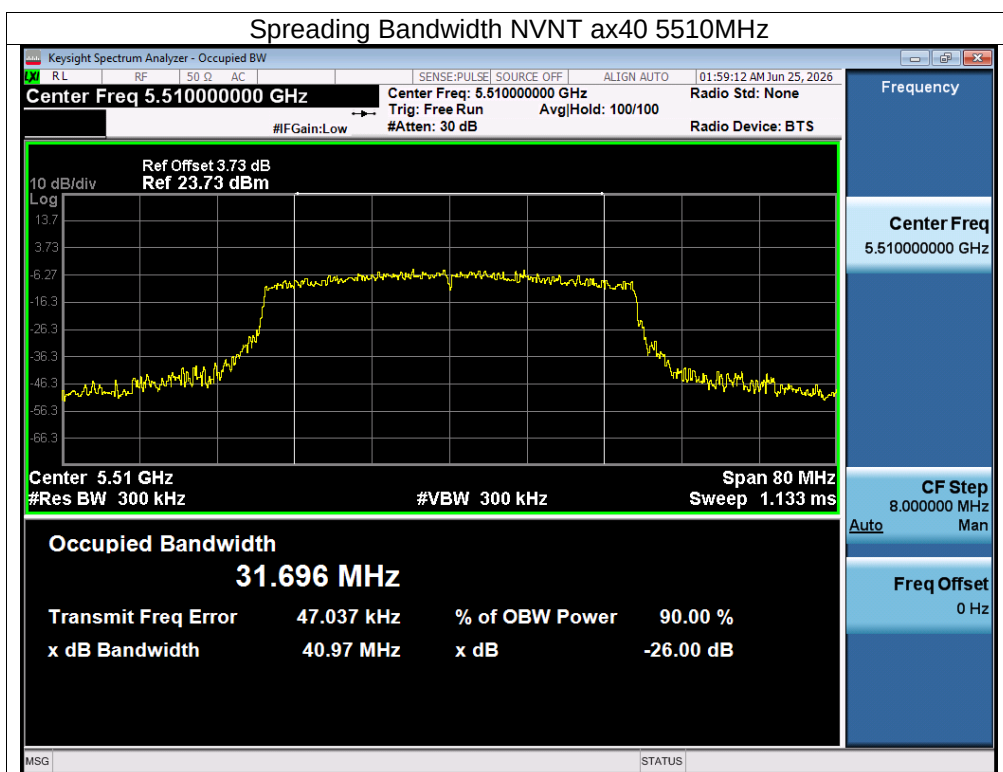


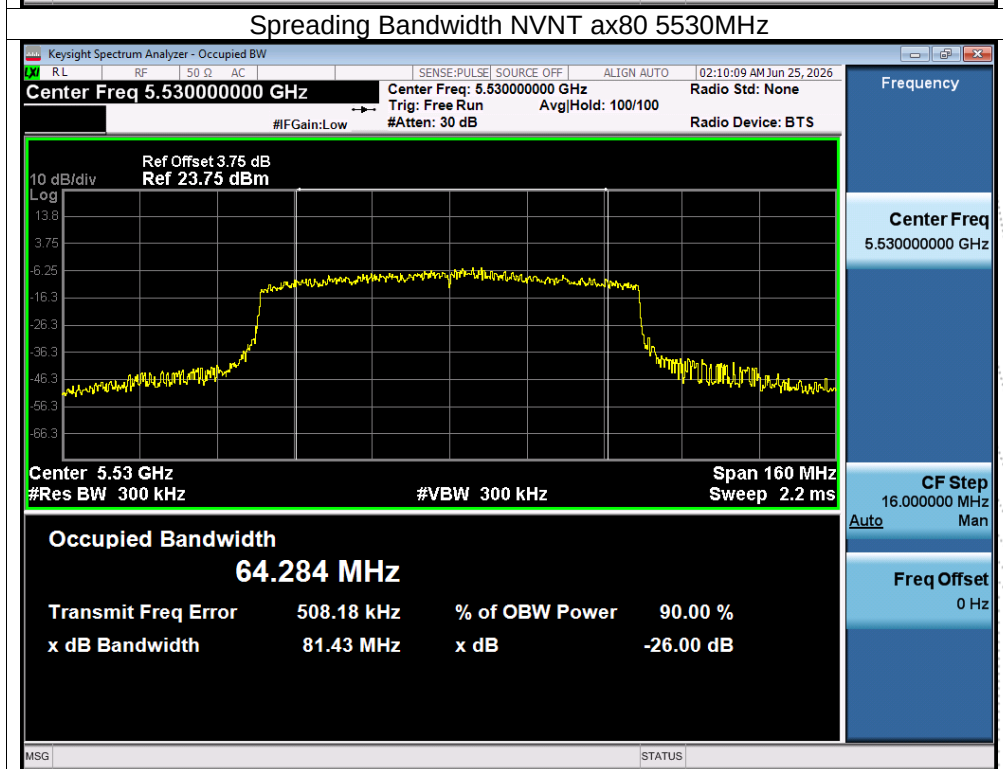
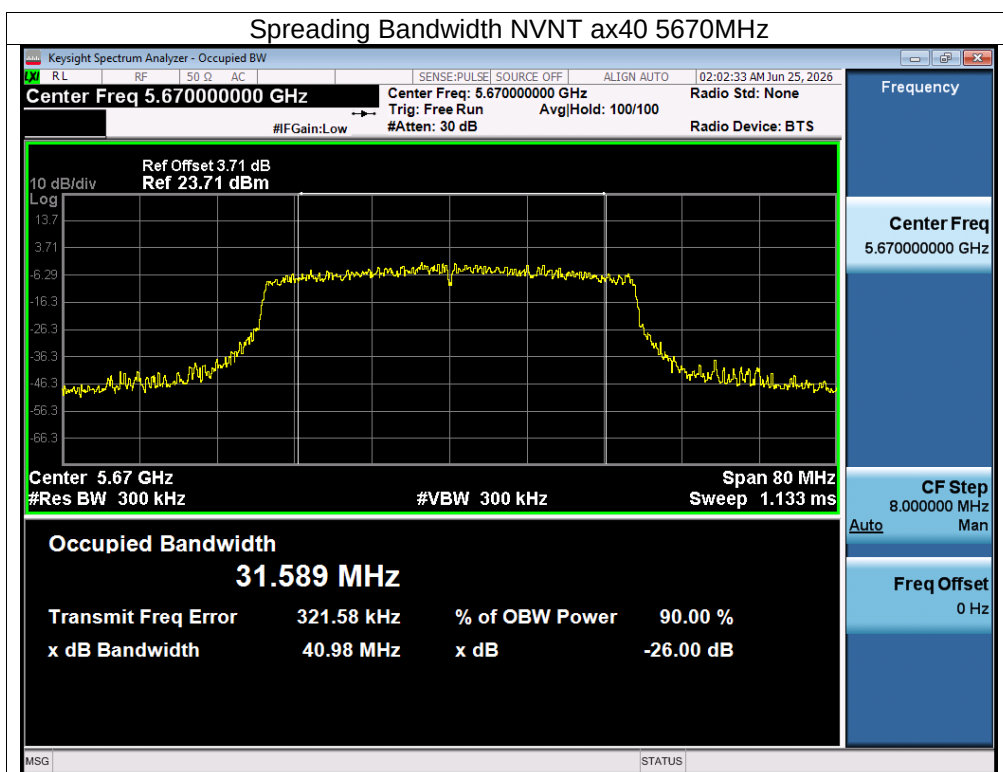


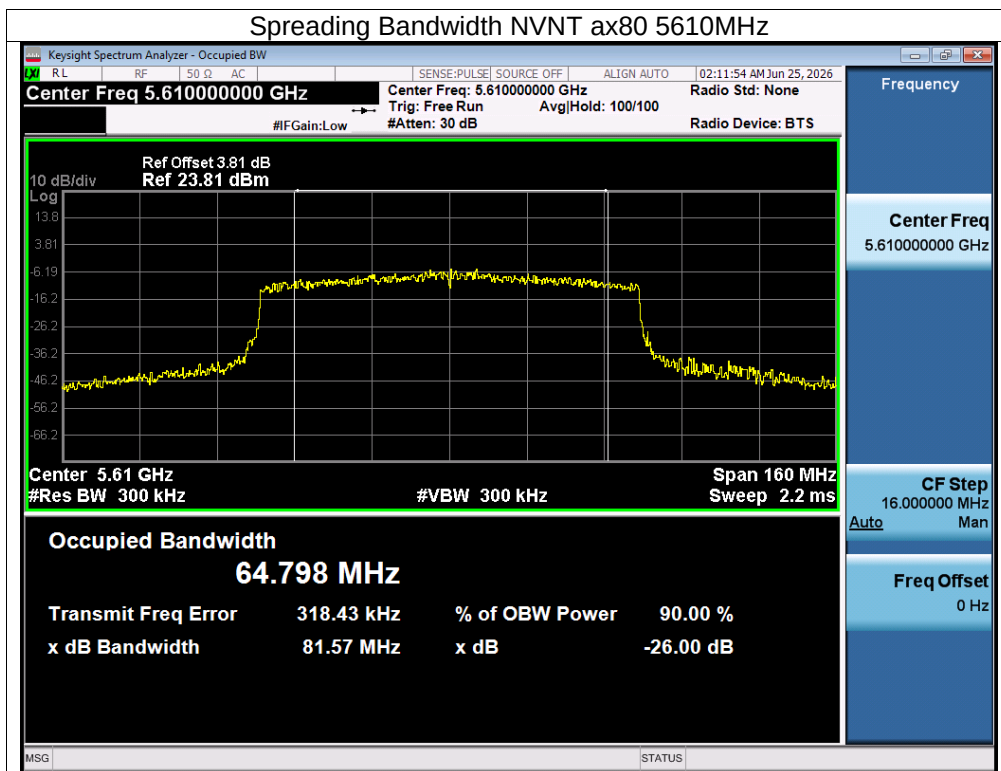






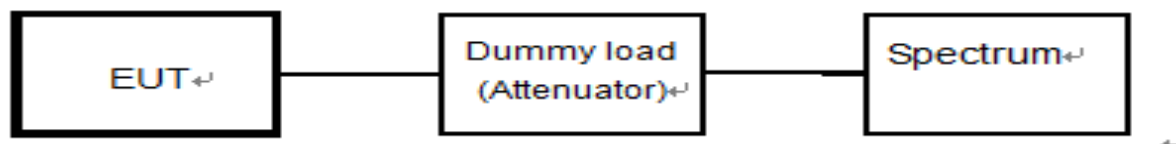






## 10. Unwanted Emission Intensity Measurement

### 10.1 Block Diagram Of Test Setup



### 10.2 Limit

| 20MHz system                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OBW:18-20MHz or less                                                                                                                                                                                                                                                                  | OBW:18-20MHz                                                                                                                                                                                                                                                                                 |
| 30MHz~5460MHz:<br>$\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz);<br>5460MHz~5470MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz);<br>5745MHz~5765MHz: $\leq 12.5\mu\text{W}/\text{MHz}$<br>(-19dBm/MHz);;<br>5765MHz~26500MHz:<br>$\leq 2.5\mu\text{W}/\text{MHz}$ (-26dBm/MHz) | 30MHz~5470MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz);<br>5730MHz~26500MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz)                                                                                                                                                     |
| 40MHz system                                                                                                                                                                                                                                                                          | 80MHz system                                                                                                                                                                                                                                                                                 |
| 30MHz~5460MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz);<br>5460MHz~5470MHz:<br>$\leq 50\mu\text{W}/\text{MHz}$ (-13dBm/MHz);;<br>5770MHz~26500MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz);                                                                       | 30MHz~5460MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz);<br>5460MHz~5469.5MHz:<br>$\leq 50\mu\text{W}/\text{MHz}$ (-13dBm/MHz);<br>5469.5MHz~5470MHz:<br>$\leq 51.2\mu\text{W}/\text{MHz}$ (-12.9dBm/MHz);;<br>5770MHz~26500MHz:<br>$\leq 12.5\mu\text{W}/\text{MHz}$ (-19dBm/MHz); |

### 10.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

| Spectrum Parameter | Setting                                |
|--------------------|----------------------------------------|
| Attenuation        | Auto                                   |
| RB / VB            | Below 1GHz: 1 MHz<br>Above 1GHz: 1 MHz |
| Detector           | Peak                                   |
| Trace              | Max Hold                               |
| Sweep Time         | Auto                                   |

### 10.4 Test Procedure

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB: 100 KHz / VB: 100 KHz  
Above 1GHz RB: 1 MHz / VB: 1 MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto  
Sweep Mode: Continuous sweep / Detect mode: Positive peak  
Trace mode: Max hold

### 10.5 Test Result

Antenna A

|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

| Condition | Mode | Frequency (MHz) | Range (MHz) | Emission Frequency (MHz) | Max Value (dBm) | Limit Start (dBm) | Limit Stop (dBm) | Verdict |
|-----------|------|-----------------|-------------|--------------------------|-----------------|-------------------|------------------|---------|
| NVNT      | a    | 5500            | 30-5460     | 3684.39                  | -38.38          | -26               | -26              | Pass    |
| NVNT      | a    | 5500            | 5460-5470   | 5466.9                   | -39.85          | -19               | -19              | Pass    |
| NVNT      | a    | 5500            | 5745-5765   | 5753.28                  | -39.46          | -19               | -19              | Pass    |
| NVNT      | a    | 5500            | 5765-26000  | 25433.42                 | -29.42          | -26               | -26              | Pass    |
| NVNT      | a    | 5600            | 30-5460     | 3722.4                   | -38.51          | -26               | -26              | Pass    |
| NVNT      | a    | 5600            | 5460-5470   | 5460.16                  | -40.98          | -19               | -19              | Pass    |
| NVNT      | a    | 5600            | 5745-5765   | 5747.42                  | -38.94          | -19               | -19              | Pass    |
| NVNT      | a    | 5600            | 5765-26000  | 25575.07                 | -29.21          | -26               | -26              | Pass    |
| NVNT      | a    | 5700            | 30-5460     | 3749.55                  | -38.84          | -26               | -26              | Pass    |
| NVNT      | a    | 5700            | 5460-5470   | 5463.34                  | -41.04          | -19               | -19              | Pass    |
| NVNT      | a    | 5700            | 5745-5765   | 5756.46                  | -38.62          | -19               | -19              | Pass    |
| NVNT      | a    | 5700            | 5765-26000  | 25514.36                 | -29.47          | -26               | -26              | Pass    |
| NVNT      | n20  | 5500            | 30-5460     | 3754.98                  | -38.67          | -26               | -26              | Pass    |
| NVNT      | n20  | 5500            | 5460-5470   | 5465.95                  | -40.14          | -19               | -19              | Pass    |
| NVNT      | n20  | 5500            | 5745-5765   | 5755.14                  | -38.97          | -19               | -19              | Pass    |
| NVNT      | n20  | 5500            | 5765-26000  | 25898.82                 | -29.25          | -26               | -26              | Pass    |
| NVNT      | n20  | 5600            | 30-5460     | 5172.21                  | -38.45          | -26               | -26              | Pass    |
| NVNT      | n20  | 5600            | 5460-5470   | 5469.84                  | -41.07          | -19               | -19              | Pass    |

|      |      |      |             |          |               |     |     |      |
|------|------|------|-------------|----------|---------------|-----|-----|------|
| NVNT | n20  | 5600 | 5745-5765   | 5761.48  | -38.92        | -19 | -19 | Pass |
| NVNT | n20  | 5600 | 5765-26000  | 25473.89 | -29.87        | -26 | -26 | Pass |
| NVNT | n20  | 5700 | 30-5460     | 3754.98  | -38.45        | -26 | -26 | Pass |
| NVNT | n20  | 5700 | 5460-5470   | 5461.35  | -41.16        | -19 | -19 | Pass |
| NVNT | n20  | 5700 | 5745-5765   | 5762.94  | -38.42        | -19 | -19 | Pass |
| NVNT | n20  | 5700 | 5765-26000  | 25959.53 | -30           | -26 | -26 | Pass |
| NVNT | n40  | 5510 | 30-5460     | 5177.64  | -36.97        | -19 | -19 | Pass |
| NVNT | n40  | 5510 | 5460-5470   | 5469.93  | -36.53        | -13 | -13 | Pass |
| NVNT | n40  | 5510 | 5770-26000  | 25575.17 | -29.75        | -19 | -19 | Pass |
| NVNT | n40  | 5590 | 30-5460     | 5177.64  | -36.58        | -19 | -19 | Pass |
| NVNT | n40  | 5590 | 5460-5470   | 5467.75  | -40.09        | -13 | -13 | Pass |
| NVNT | n40  | 5590 | 5770-26000  | 26000    | -29.51        | -19 | -19 | Pass |
| NVNT | n40  | 5670 | 30-5460     | 3695.25  | -37.89        | -19 | -19 | Pass |
| NVNT | n40  | 5670 | 5460-5470   | 5462.88  | -41.09        | -13 | -13 | Pass |
| NVNT | n40  | 5670 | 5770-26000  | 24968.27 | -29.14        | -19 | -19 | Pass |
| NVNT | ac20 | 5500 | 30-5460     | 5183.07  | -34.05        | -26 | -26 | Pass |
| NVNT | ac20 | 5500 | 5460-5470   | 5462.35  | -40.38        | -19 | -19 | Pass |
| NVNT | ac20 | 5500 | 5745-5765   | 5754.06  | -38.94        | -19 | -19 | Pass |
| NVNT | ac20 | 5500 | 5765-26000  | 25554.83 | -29.59        | -26 | -26 | Pass |
| NVNT | ac20 | 5600 | 30-5460     | 5183.07  | -35.79        | -26 | -26 | Pass |
| NVNT | ac20 | 5600 | 5460-5470   | 5463.48  | -41.05        | -19 | -19 | Pass |
| NVNT | ac20 | 5600 | 5745-5765   | 5756.34  | -38.7         | -19 | -19 | Pass |
| NVNT | ac20 | 5600 | 5765-26000  | 25959.53 | -28.86        | -26 | -26 | Pass |
| NVNT | ac20 | 5700 | 30-5460     | 4259.97  | -39.2         | -26 | -26 | Pass |
| NVNT | ac20 | 5700 | 5460-5470   | 5464.2   | -40.99        | -19 | -19 | Pass |
| NVNT | ac20 | 5700 | 5745-5765   | 5759.24  | -39.14        | -19 | -19 | Pass |
| NVNT | ac20 | 5700 | 5765-26000  | 25979.77 | -29.73        | -26 | -26 | Pass |
| NVNT | ac40 | 5510 | 30-5460     | 3114.24  | -38.21        | -19 | -19 | Pass |
| NVNT | ac40 | 5510 | 5460-5470   | 5469.77  | -36.59        | -13 | -13 | Pass |
| NVNT | ac40 | 5510 | 5770-26000  | 25575.17 | -29.32        | -19 | -19 | Pass |
| NVNT | ac40 | 5590 | 30-5460     | 3700.68  | -38.37        | -19 | -19 | Pass |
| NVNT | ac40 | 5590 | 5460-5470   | 5460.48  | -40.71        | -13 | -13 | Pass |
| NVNT | ac40 | 5590 | 5770-26000  | 25939.31 | <b>-28.57</b> | -19 | -19 | Pass |
| NVNT | ac40 | 5670 | 30-5460     | 5177.64  | -37.25        | -19 | -19 | Pass |
| NVNT | ac40 | 5670 | 5460-5470   | 5460.18  | -41.04        | -13 | -13 | Pass |
| NVNT | ac40 | 5670 | 5770-26000  | 25737.01 | -29.73        | -19 | -19 | Pass |
| NVNT | ac80 | 5530 | 30-5460     | 5460     | -37.6         | -19 | -19 | Pass |
| NVNT | ac80 | 5530 | 5460-5469.5 | 5467.56  | -34.88        | -13 | -13 | Pass |
| NVNT | ac80 | 5530 | 5469.5-5470 | 5469.79  | -32.94        | -13 | -13 | Pass |
| NVNT | ac80 | 5530 | 5770-26000  | 25433.56 | -29.65        | -19 | -19 | Pass |
| NVNT | ac80 | 5610 | 30-5460     | 5172.21  | -38.26        | -19 | -19 | Pass |
| NVNT | ac80 | 5610 | 5460-5469.5 | 5466.14  | -41.28        | -13 | -13 | Pass |
| NVNT | ac80 | 5610 | 5469.5-5470 | 5469.92  | -40.39        | -13 | -13 | Pass |
| NVNT | ac80 | 5610 | 5770-26000  | 25939.31 | -29.47        | -19 | -19 | Pass |
| NVNT | ax20 | 5500 | 30-5460     | 5172.21  | -36.51        | -26 | -26 | Pass |
| NVNT | ax20 | 5500 | 5460-5470   | 5466.11  | -39.45        | -19 | -19 | Pass |

|      |      |      |             |          |        |     |     |      |
|------|------|------|-------------|----------|--------|-----|-----|------|
| NVNT | ax20 | 5500 | 5745-5765   | 5754.02  | -39.54 | -19 | -19 | Pass |
| NVNT | ax20 | 5500 | 5765-26000  | 25858.36 | -29.68 | -26 | -26 | Pass |
| NVNT | ax20 | 5600 | 30-5460     | 3678.96  | -38.47 | -26 | -26 | Pass |
| NVNT | ax20 | 5600 | 5460-5470   | 5464.18  | -40.66 | -19 | -19 | Pass |
| NVNT | ax20 | 5600 | 5745-5765   | 5763.42  | -39.19 | -19 | -19 | Pass |
| NVNT | ax20 | 5600 | 5765-26000  | 26000    | -29.31 | -26 | -26 | Pass |
| NVNT | ax20 | 5700 | 30-5460     | 5177.64  | -37.18 | -26 | -26 | Pass |
| NVNT | ax20 | 5700 | 5460-5470   | 5466.51  | -40.93 | -19 | -19 | Pass |
| NVNT | ax20 | 5700 | 5745-5765   | 5764.14  | -38.95 | -19 | -19 | Pass |
| NVNT | ax20 | 5700 | 5765-26000  | 25858.36 | -29.13 | -26 | -26 | Pass |
| NVNT | ax40 | 5510 | 30-5460     | 3782.13  | -37.84 | -19 | -19 | Pass |
| NVNT | ax40 | 5510 | 5460-5470   | 5469.62  | -37.13 | -13 | -13 | Pass |
| NVNT | ax40 | 5510 | 5770-26000  | 25979.77 | -28.61 | -19 | -19 | Pass |
| NVNT | ax40 | 5590 | 30-5460     | 3678.96  | -37.73 | -19 | -19 | Pass |
| NVNT | ax40 | 5590 | 5460-5470   | 5464.73  | -40.49 | -13 | -13 | Pass |
| NVNT | ax40 | 5590 | 5770-26000  | 25979.77 | -29.39 | -19 | -19 | Pass |
| NVNT | ax40 | 5670 | 30-5460     | 4254.54  | -38.5  | -19 | -19 | Pass |
| NVNT | ax40 | 5670 | 5460-5470   | 5460.19  | -41.17 | -13 | -13 | Pass |
| NVNT | ax40 | 5670 | 5770-26000  | 25453.79 | -29.6  | -19 | -19 | Pass |
| NVNT | ax80 | 5530 | 30-5460     | 5460     | -34.33 | -19 | -19 | Pass |
| NVNT | ax80 | 5530 | 5460-5469.5 | 5469.17  | -29.43 | -13 | -13 | Pass |
| NVNT | ax80 | 5530 | 5469.5-5470 | 5469.88  | -29.14 | -13 | -13 | Pass |
| NVNT | ax80 | 5530 | 5770-26000  | 25878.62 | -29.1  | -19 | -19 | Pass |
| NVNT | ax80 | 5610 | 30-5460     | 5074.47  | -37.83 | -19 | -19 | Pass |
| NVNT | ax80 | 5610 | 5460-5469.5 | 5465.37  | -40.38 | -13 | -13 | Pass |
| NVNT | ax80 | 5610 | 5469.5-5470 | 5469.53  | -40.6  | -13 | -13 | Pass |
| NVNT | ax80 | 5610 | 5770-26000  | 25635.86 | -29.32 | -19 | -19 | Pass |

#### Antenna B

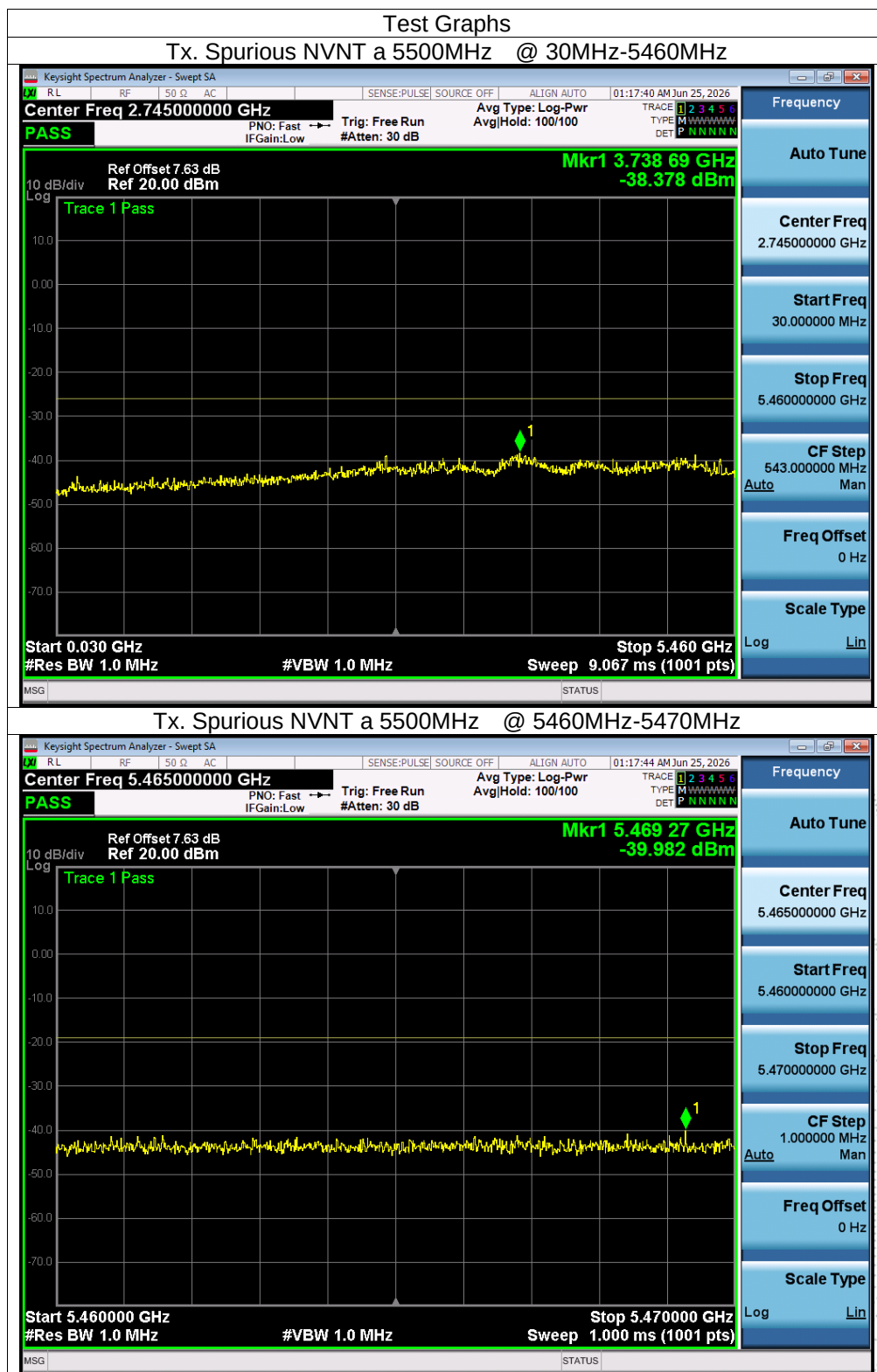
|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

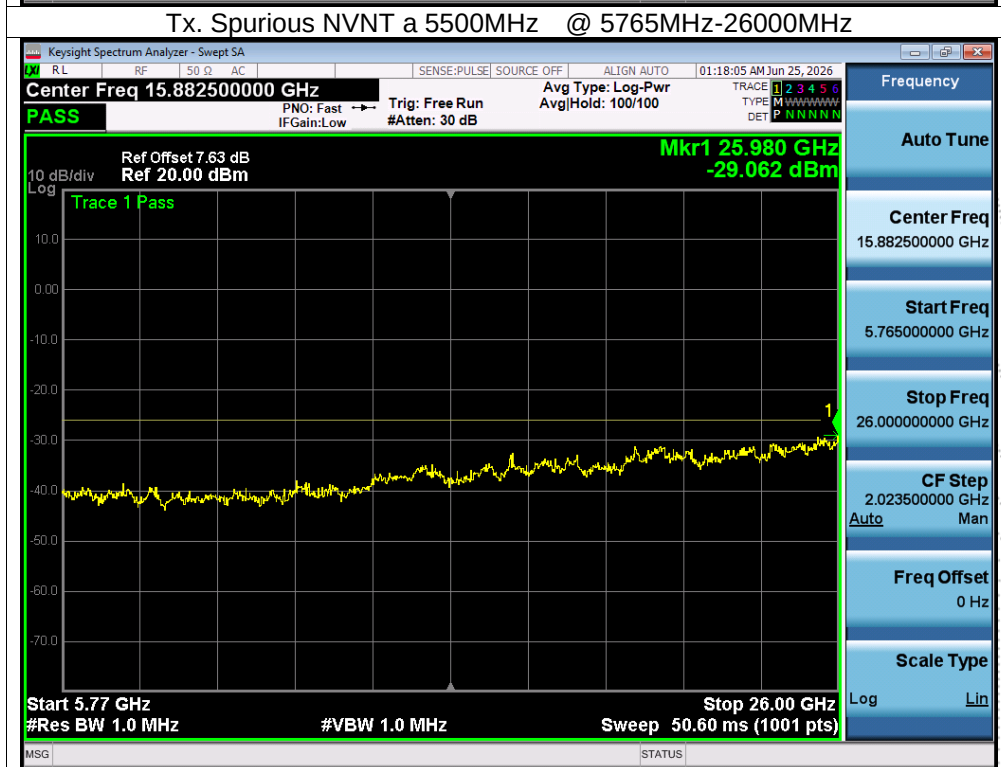
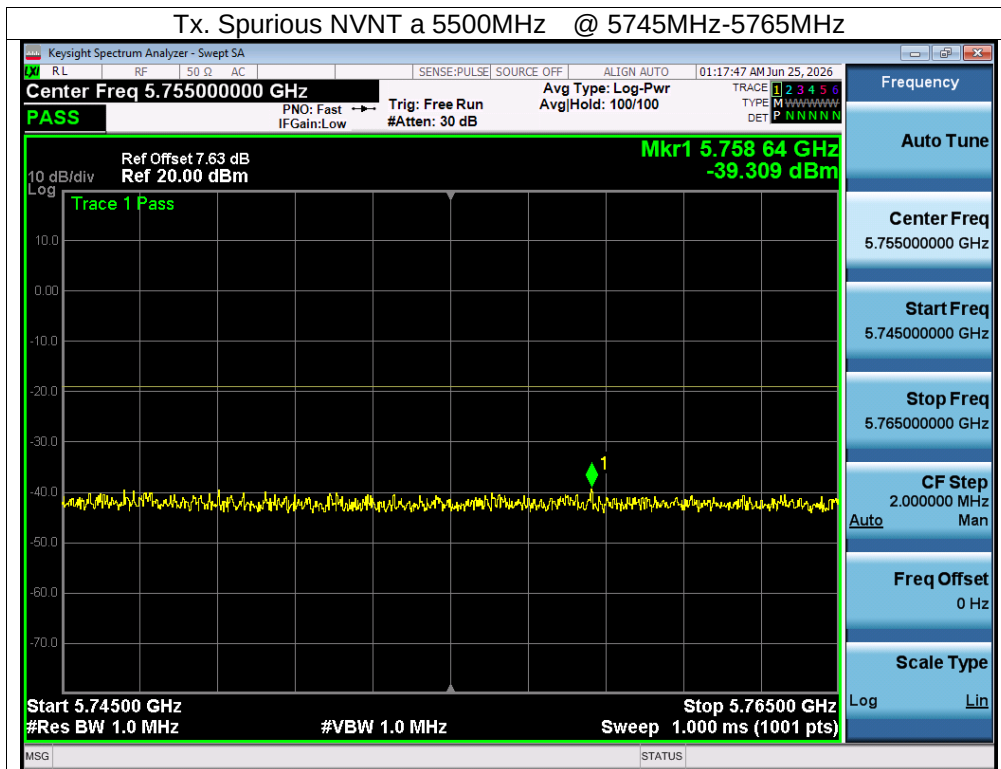
| Condition | Mode | Frequency (MHz) | Range (MHz) | Emission Frequency (MHz) | Max Value (dBm) | Limit Start (dBm) | Limit Stop (dBm) | Verdict |
|-----------|------|-----------------|-------------|--------------------------|-----------------|-------------------|------------------|---------|
| NVNT      | a    | 5500            | 30-5460     | 3738.69                  | -38.38          | -26               | -26              | Pass    |
| NVNT      | a    | 5500            | 5460-5470   | 5469.27                  | -39.98          | -19               | -19              | Pass    |
| NVNT      | a    | 5500            | 5745-5765   | 5758.64                  | -39.31          | -19               | -19              | Pass    |
| NVNT      | a    | 5500            | 5765-26000  | 25979.77                 | -29.06          | -26               | -26              | Pass    |
| NVNT      | a    | 5600            | 30-5460     | 3798.42                  | -38.31          | -26               | -26              | Pass    |
| NVNT      | a    | 5600            | 5460-5470   | 5460.88                  | -40.92          | -19               | -19              | Pass    |
| NVNT      | a    | 5600            | 5745-5765   | 5762.24                  | -35.27          | -19               | -19              | Pass    |
| NVNT      | a    | 5600            | 5765-26000  | 25514.36                 | -29.44          | -26               | -26              | Pass    |
| NVNT      | a    | 5700            | 30-5460     | 3695.25                  | -38.3           | -26               | -26              | Pass    |
| NVNT      | a    | 5700            | 5460-5470   | 5467.08                  | -40.68          | -19               | -19              | Pass    |
| NVNT      | a    | 5700            | 5745-5765   | 5748.08                  | -38.62          | -19               | -19              | Pass    |

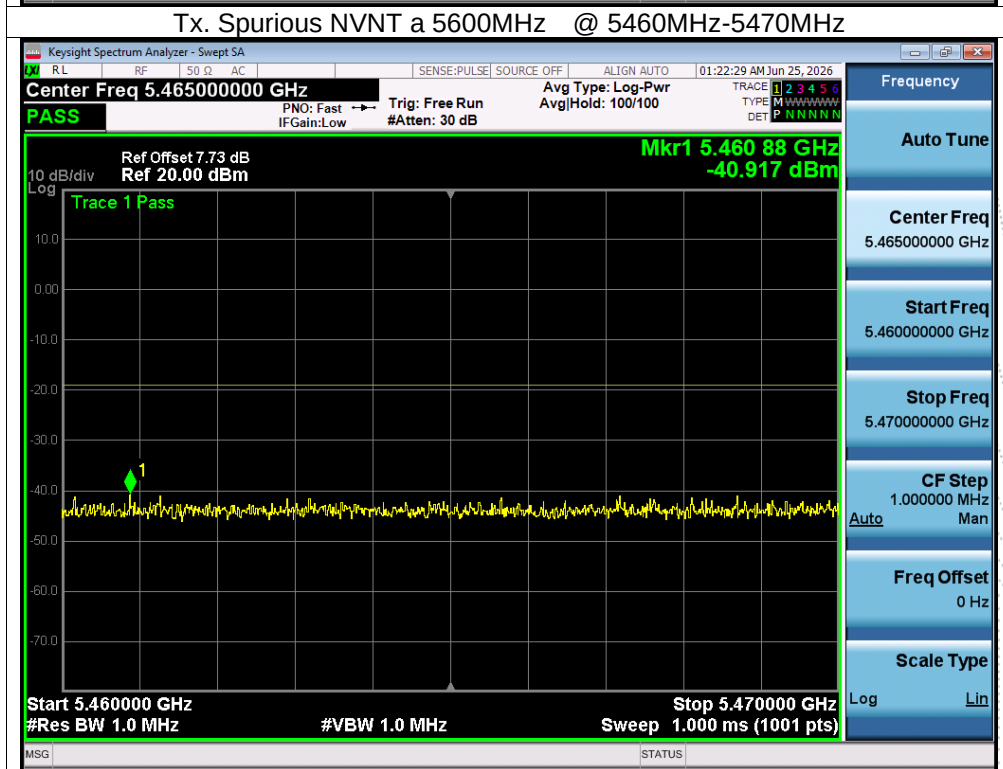
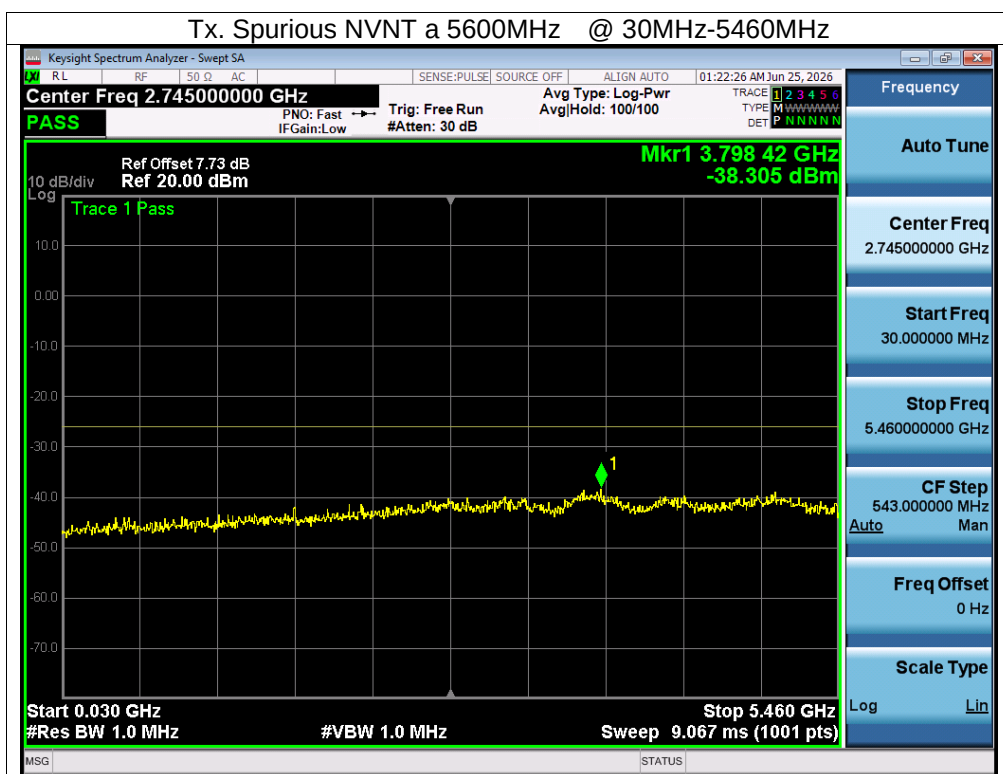
|      |      |      |             |          |        |     |     |      |
|------|------|------|-------------|----------|--------|-----|-----|------|
| NVNT | a    | 5700 | 5765-26000  | 25676.24 | -28.97 | -26 | -26 | Pass |
| NVNT | n20  | 5500 | 30-5460     | 3820.14  | -38.23 | -26 | -26 | Pass |
| NVNT | n20  | 5500 | 5460-5470   | 5465.62  | -40.8  | -19 | -19 | Pass |
| NVNT | n20  | 5500 | 5745-5765   | 5751.64  | -39.02 | -19 | -19 | Pass |
| NVNT | n20  | 5500 | 5765-26000  | 25777.41 | -29.52 | -26 | -26 | Pass |
| NVNT | n20  | 5600 | 30-5460     | 3722.4   | -37.44 | -26 | -26 | Pass |
| NVNT | n20  | 5600 | 5460-5470   | 5460.89  | -40.94 | -19 | -19 | Pass |
| NVNT | n20  | 5600 | 5745-5765   | 5757.16  | -36.75 | -19 | -19 | Pass |
| NVNT | n20  | 5600 | 5765-26000  | 25595.3  | -29.56 | -26 | -26 | Pass |
| NVNT | n20  | 5700 | 30-5460     | 3716.97  | -38.27 | -26 | -26 | Pass |
| NVNT | n20  | 5700 | 5460-5470   | 5467.45  | -40.8  | -19 | -19 | Pass |
| NVNT | n20  | 5700 | 5745-5765   | 5745.46  | -39.4  | -19 | -19 | Pass |
| NVNT | n20  | 5700 | 5765-26000  | 25919.06 | -29.35 | -26 | -26 | Pass |
| NVNT | n40  | 5510 | 30-5460     | 3706.11  | -37.4  | -19 | -19 | Pass |
| NVNT | n40  | 5510 | 5460-5470   | 5469.97  | -36.14 | -13 | -13 | Pass |
| NVNT | n40  | 5510 | 5770-26000  | 24948.04 | -28.53 | -19 | -19 | Pass |
| NVNT | n40  | 5590 | 30-5460     | 3738.69  | -38.01 | -19 | -19 | Pass |
| NVNT | n40  | 5590 | 5460-5470   | 5462.48  | -40.47 | -13 | -13 | Pass |
| NVNT | n40  | 5590 | 5770-26000  | 25595.4  | -28.86 | -19 | -19 | Pass |
| NVNT | n40  | 5670 | 30-5460     | 3760.41  | -38.62 | -19 | -19 | Pass |
| NVNT | n40  | 5670 | 5460-5470   | 5461.23  | -40.81 | -13 | -13 | Pass |
| NVNT | n40  | 5670 | 5770-26000  | 25534.71 | -29.45 | -19 | -19 | Pass |
| NVNT | ac20 | 5500 | 30-5460     | 3689.82  | -38.17 | -26 | -26 | Pass |
| NVNT | ac20 | 5500 | 5460-5470   | 5462.16  | -41.06 | -19 | -19 | Pass |
| NVNT | ac20 | 5500 | 5745-5765   | 5752.98  | -38.85 | -19 | -19 | Pass |
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| NVNT | ac80 | 5530 | 30-5460     | 5172.21  | -38.72 | -19 | -19 | Pass |
| NVNT | ac80 | 5530 | 5460-5469.5 | 5469.11  | -34.07 | -13 | -13 | Pass |
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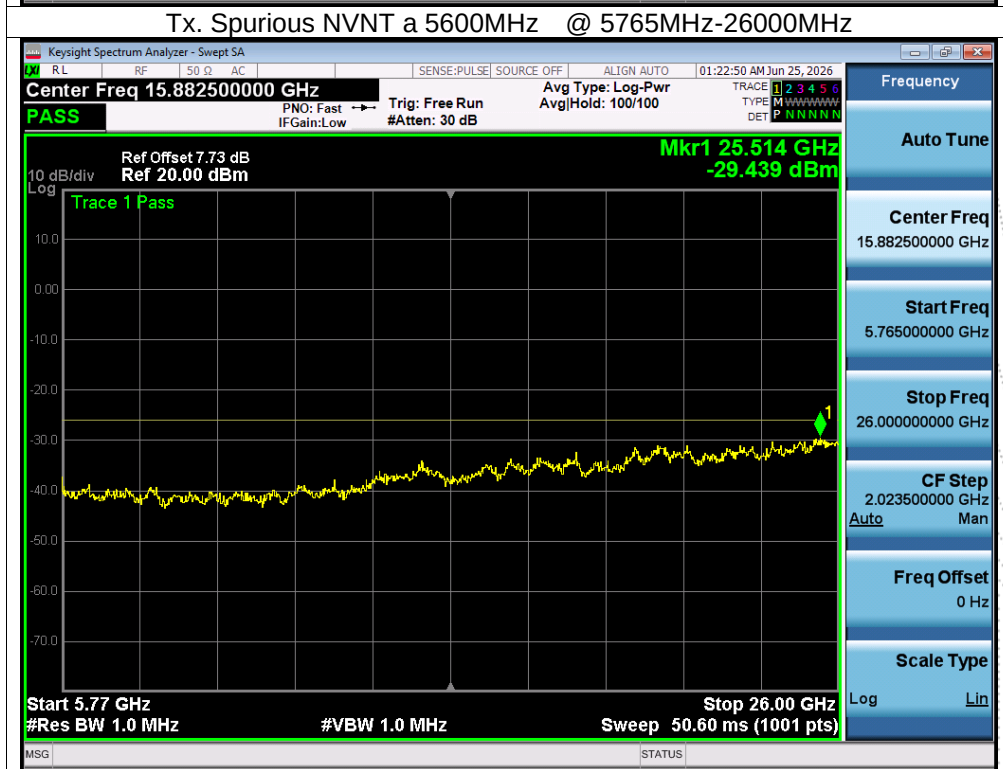
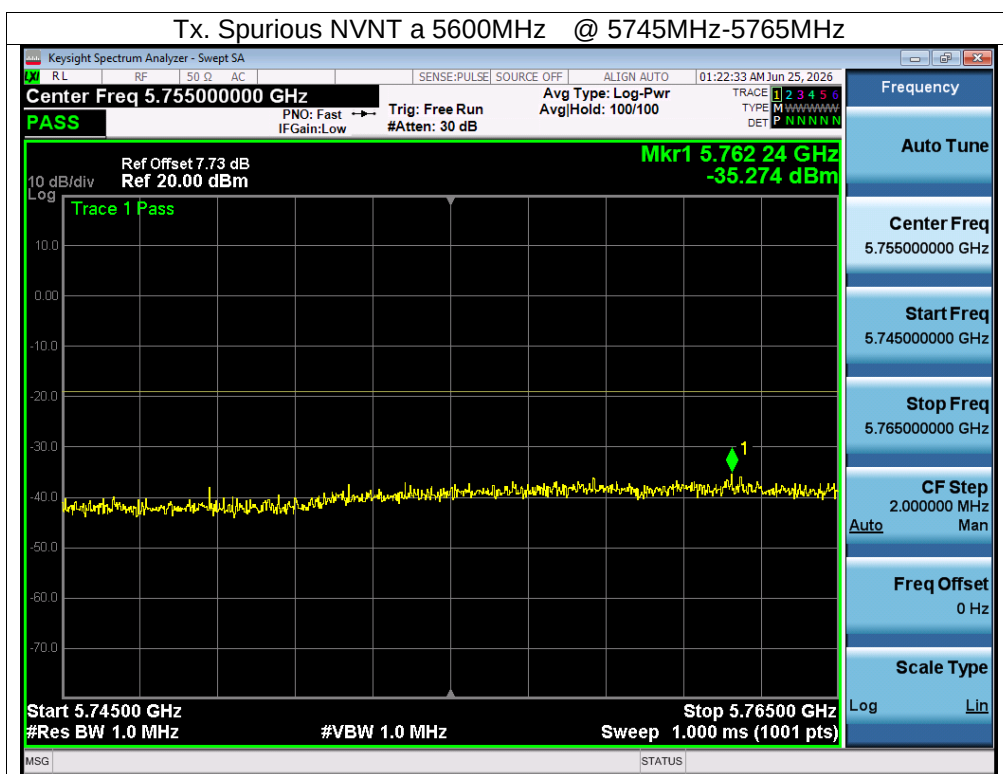
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| NVNT | ax20 | 5500 | 30-5460     | 3722.4   | -38.47        | -26 | -26 | Pass |
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| NVNT | ax20 | 5600 | 30-5460     | 3738.69  | -38.16        | -26 | -26 | Pass |
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| NVNT | ax20 | 5600 | 5765-26000  | 25959.53 | -29.13        | -26 | -26 | Pass |
| NVNT | ax20 | 5700 | 30-5460     | 3912.45  | -38.43        | -26 | -26 | Pass |
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| NVNT | ax20 | 5700 | 5765-26000  | 26000    | -29.65        | -26 | -26 | Pass |
| NVNT | ax40 | 5510 | 30-5460     | 3749.55  | -38.81        | -19 | -19 | Pass |
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| NVNT | ax40 | 5670 | 5770-26000  | 25939.31 | -29.16        | -19 | -19 | Pass |
| NVNT | ax80 | 5530 | 30-5460     | 5460     | -33.52        | -19 | -19 | Pass |
| NVNT | ax80 | 5530 | 5460-5469.5 | 5469.5   | -30.33        | -13 | -13 | Pass |
| NVNT | ax80 | 5530 | 5469.5-5470 | 5469.59  | -29.83        | -13 | -13 | Pass |
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| NVNT | ax80 | 5610 | 5460-5469.5 | 5468.33  | -40.2         | -13 | -13 | Pass |
| NVNT | ax80 | 5610 | 5469.5-5470 | 5469.86  | -40.47        | -13 | -13 | Pass |
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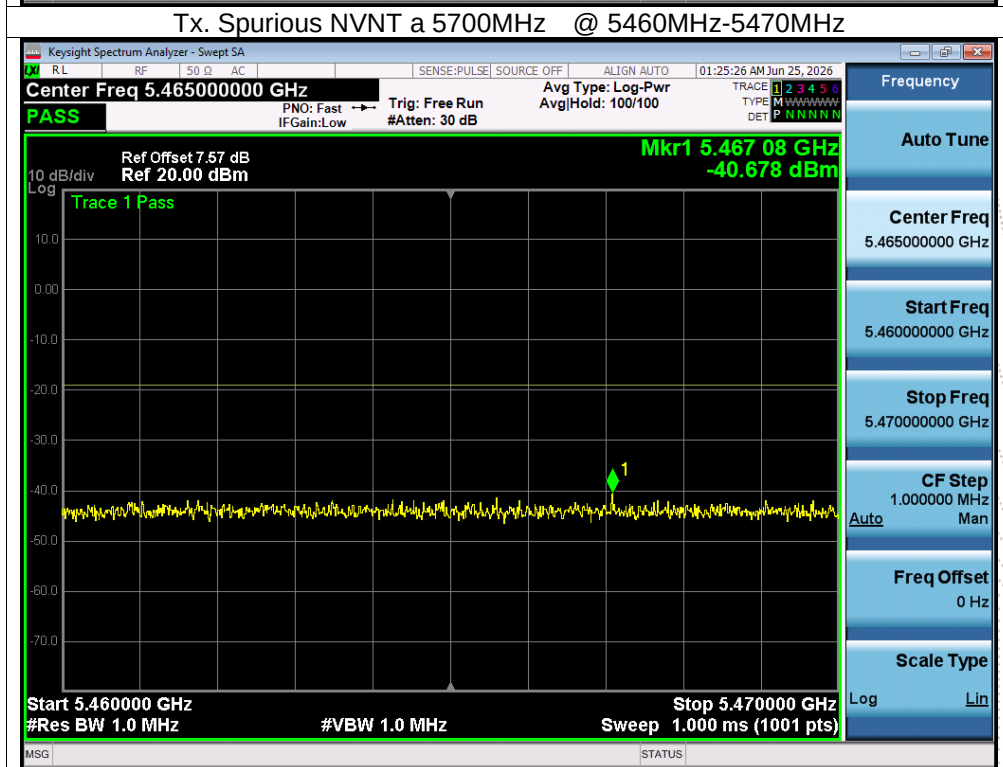
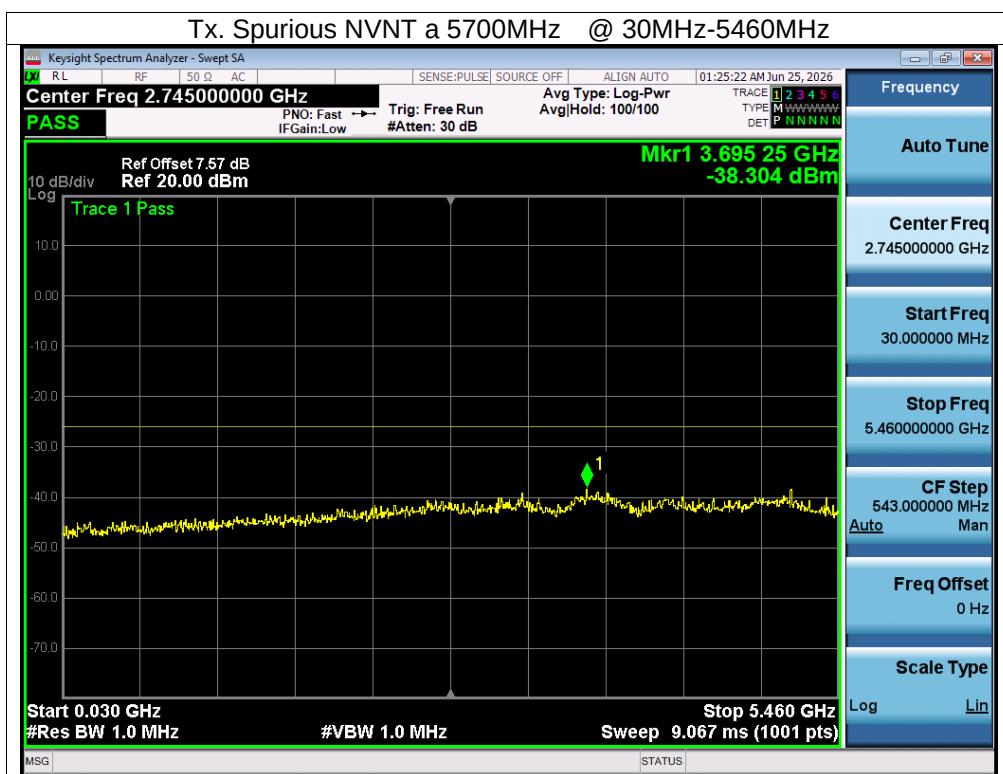
The worst test channel of all channels was showed as the follow: only shown Antenna B Plot.

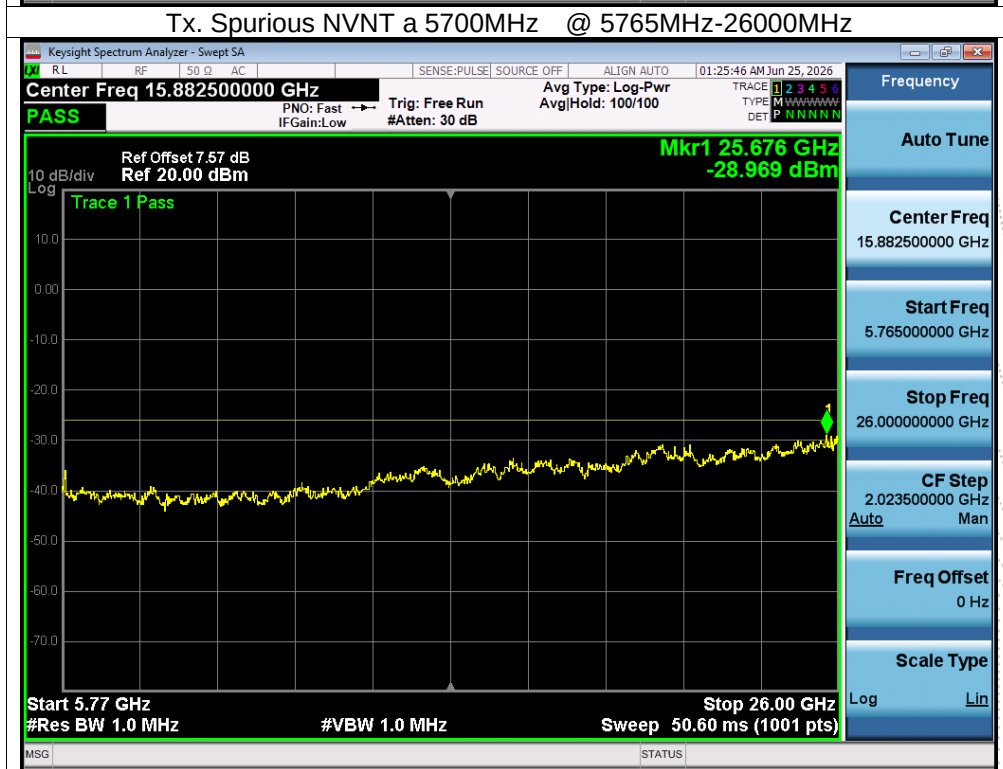
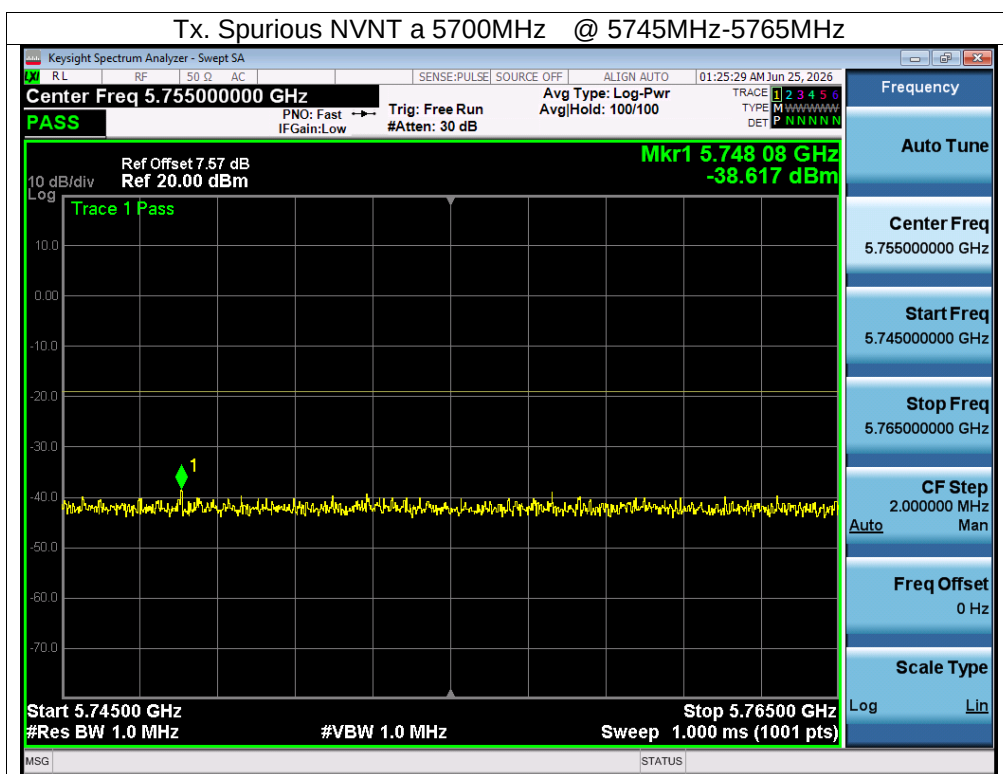


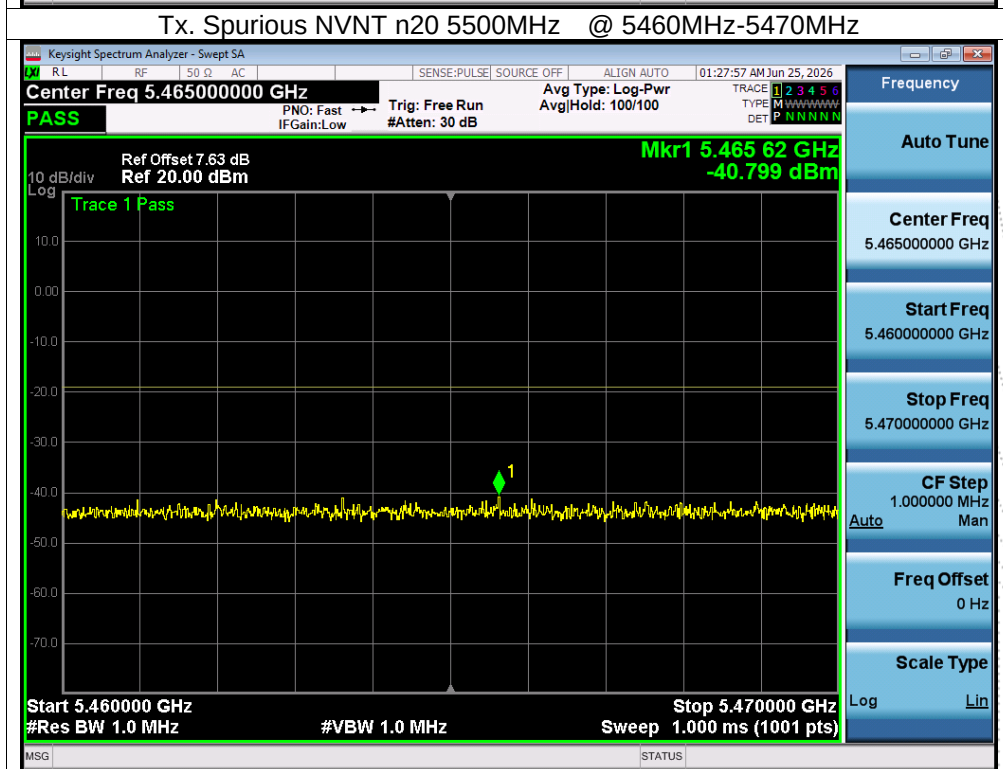
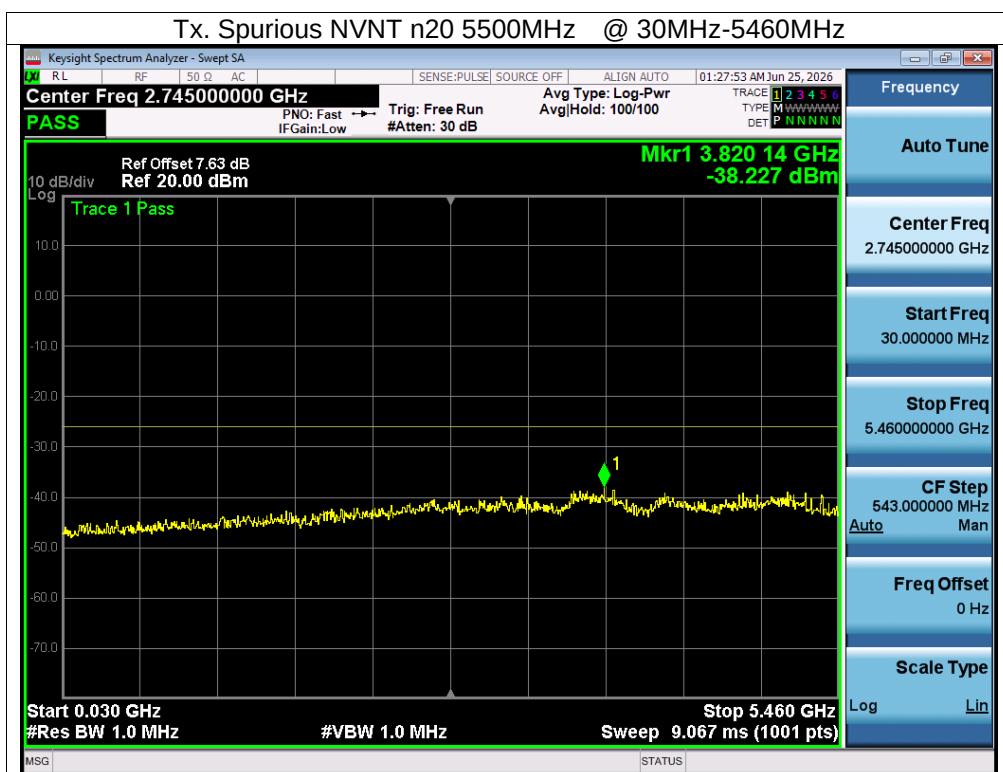


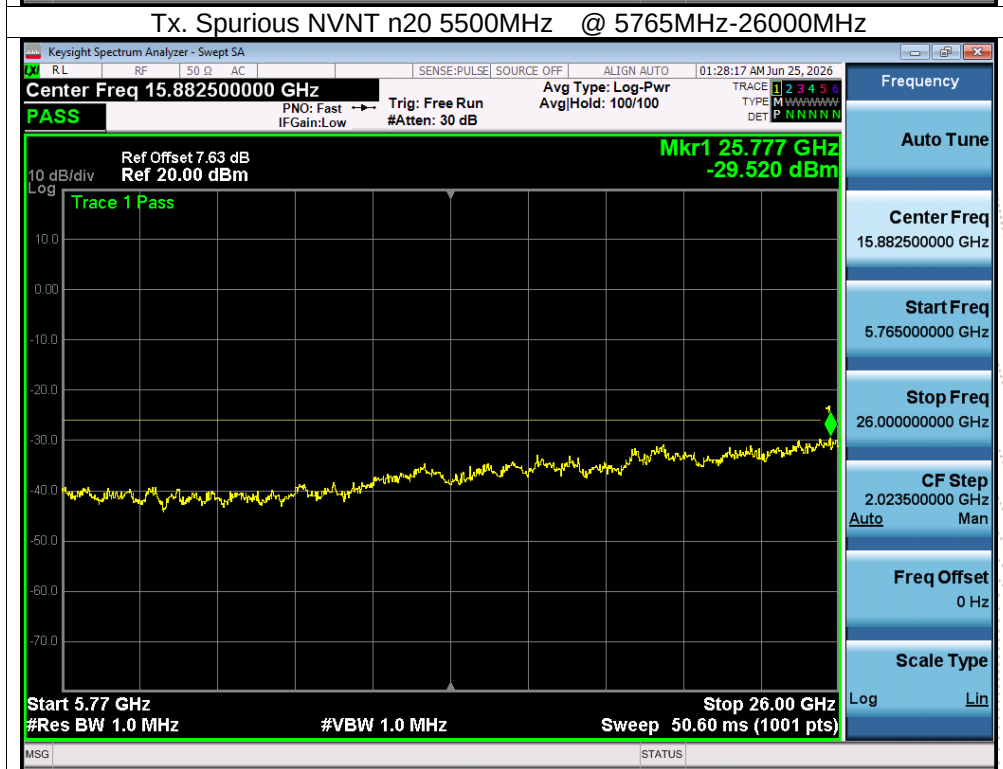
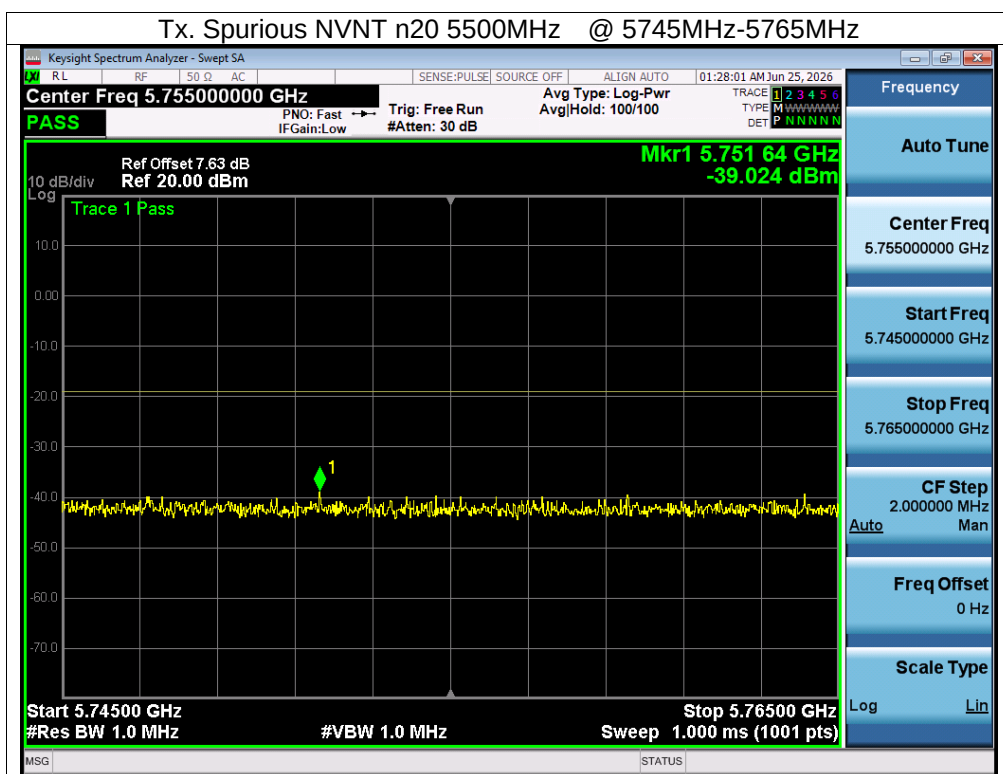




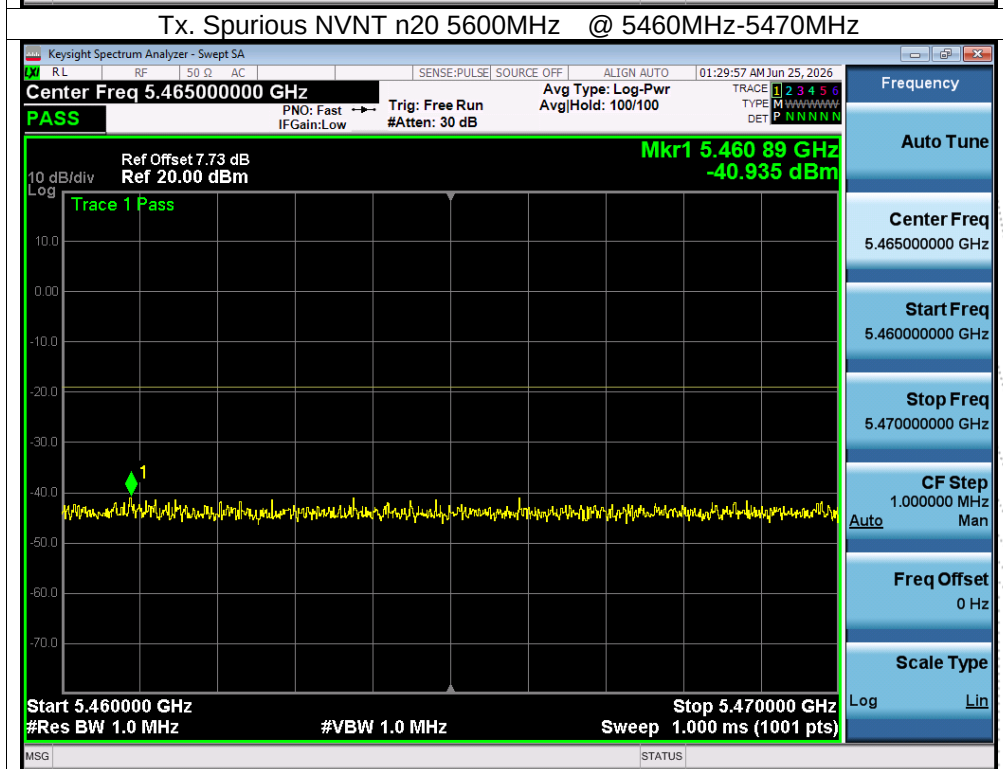
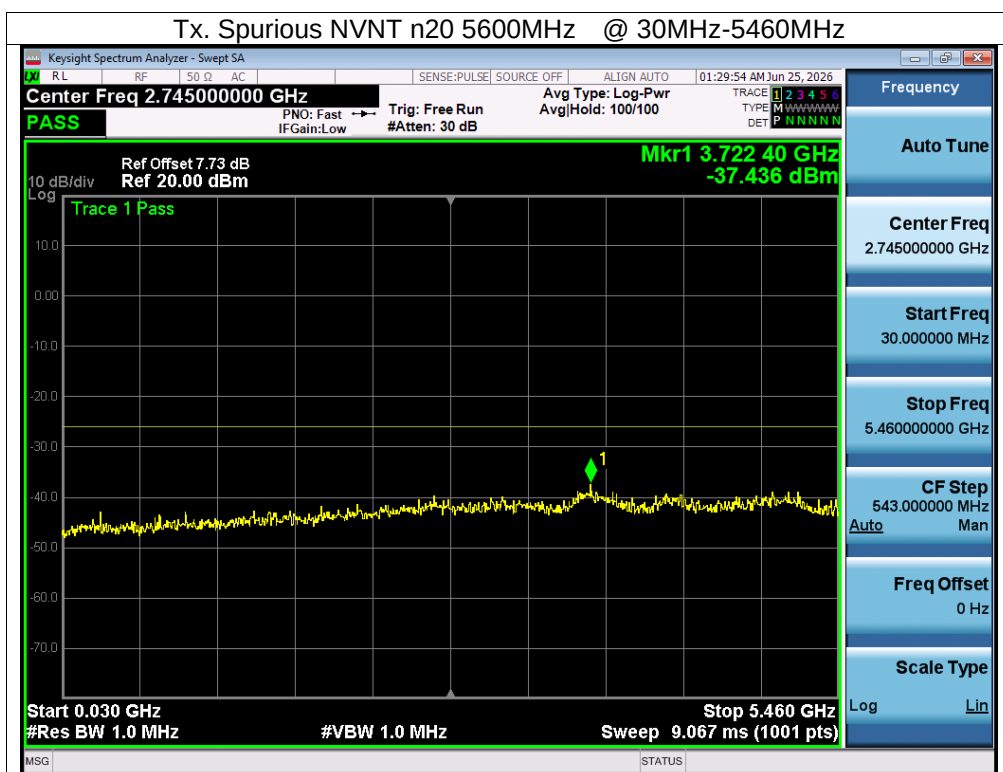


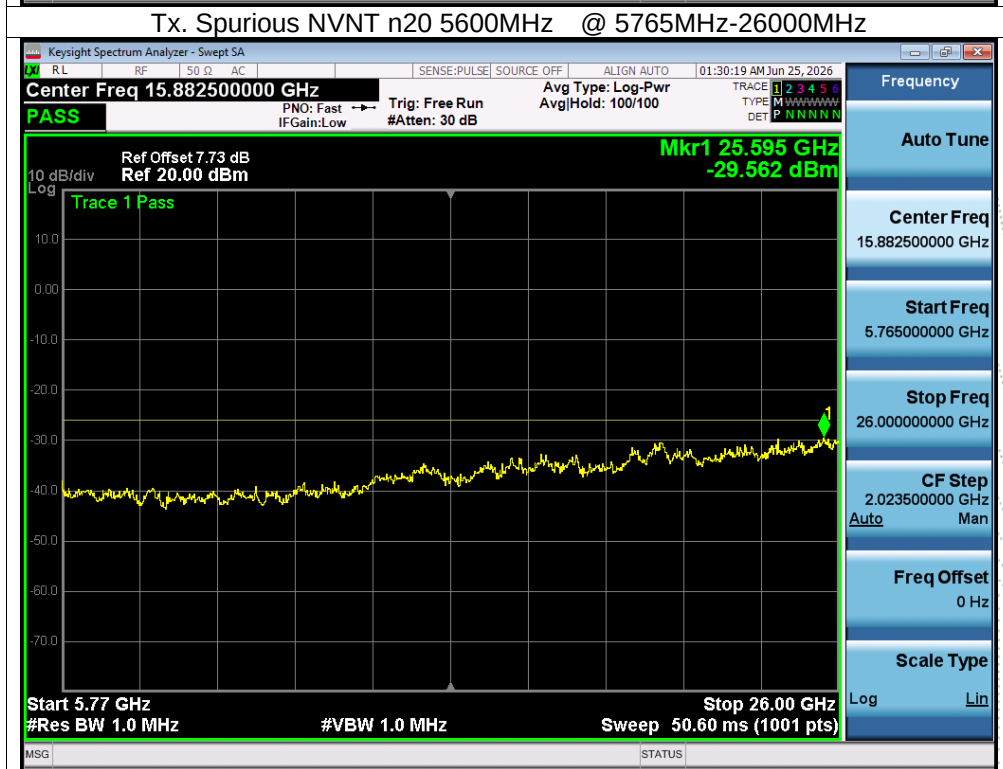
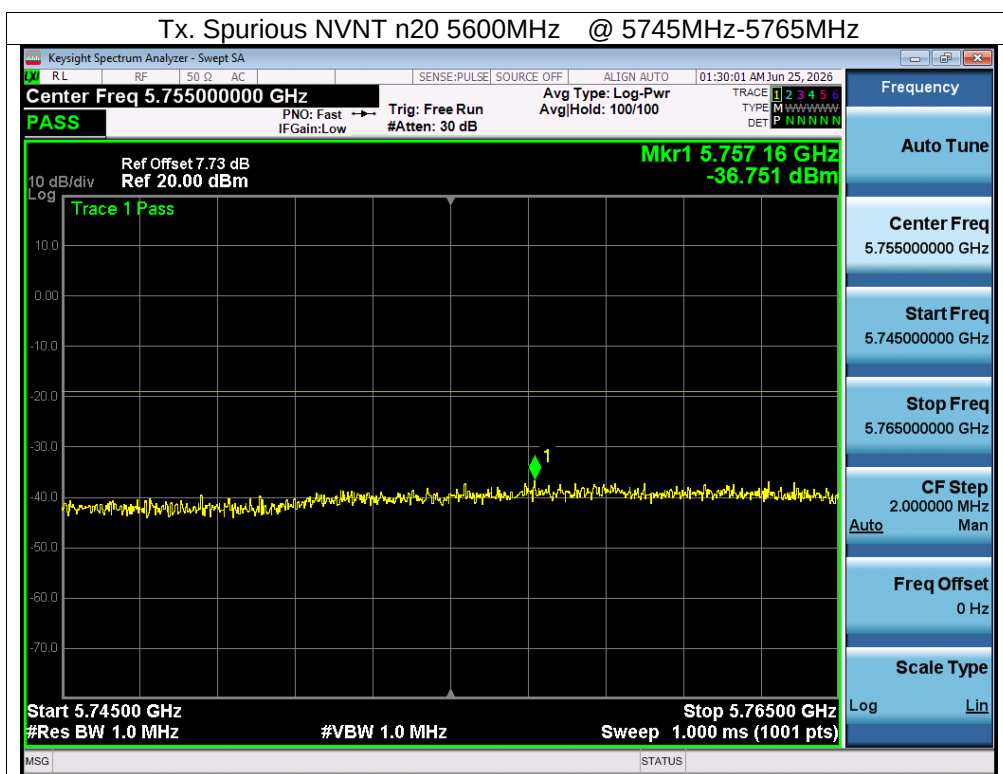


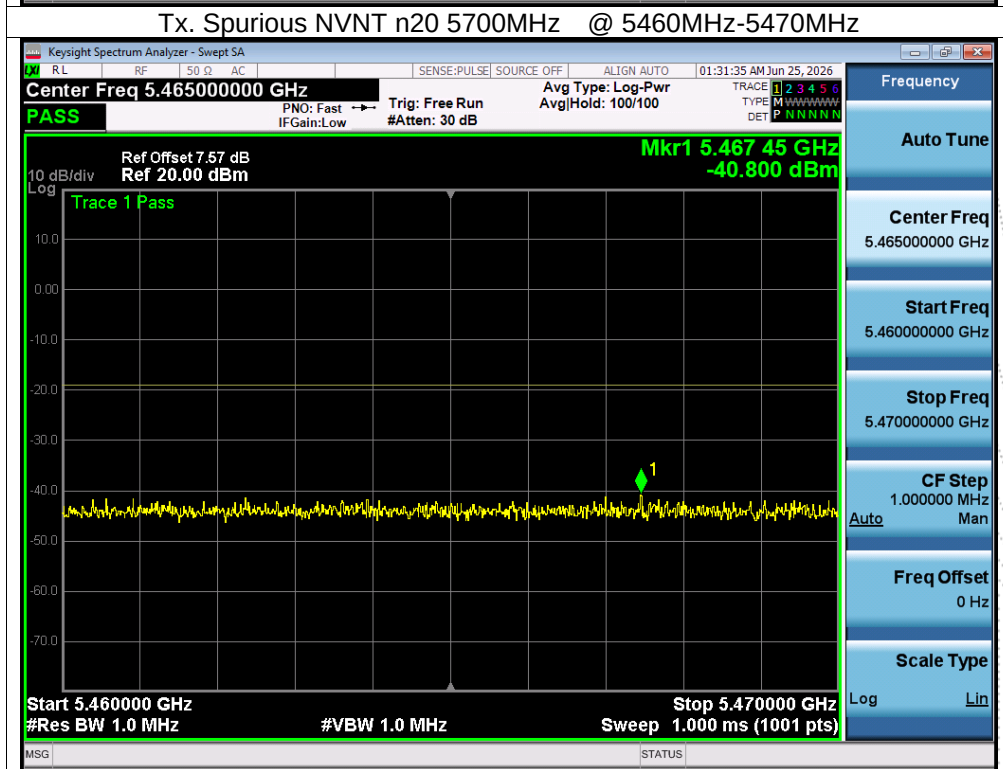
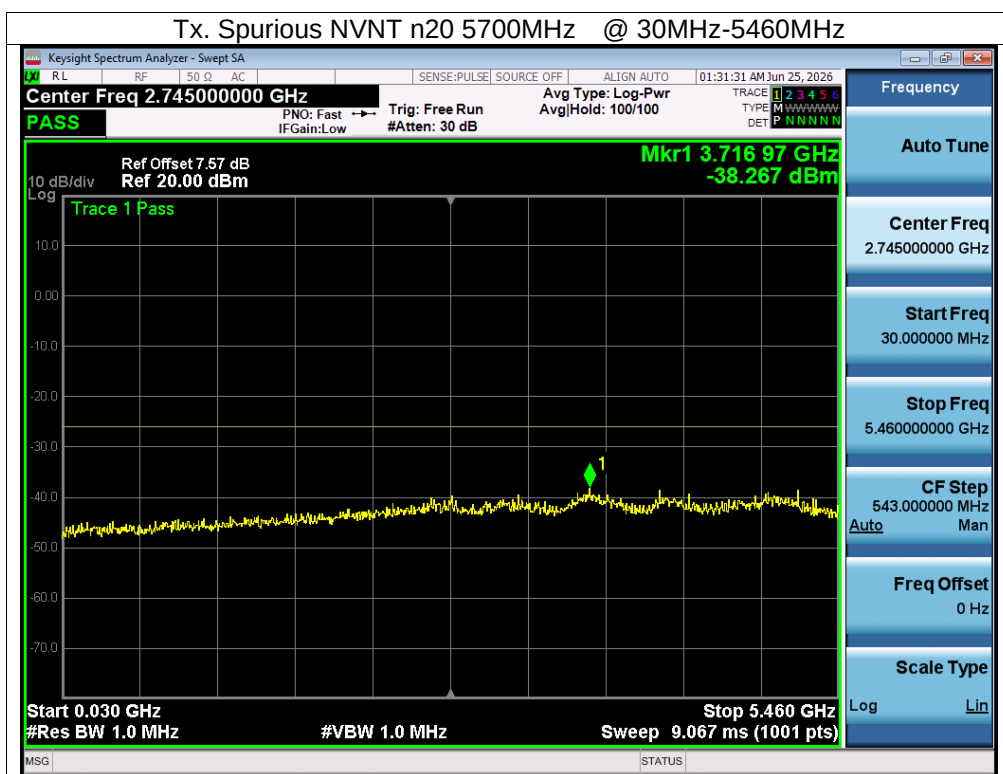


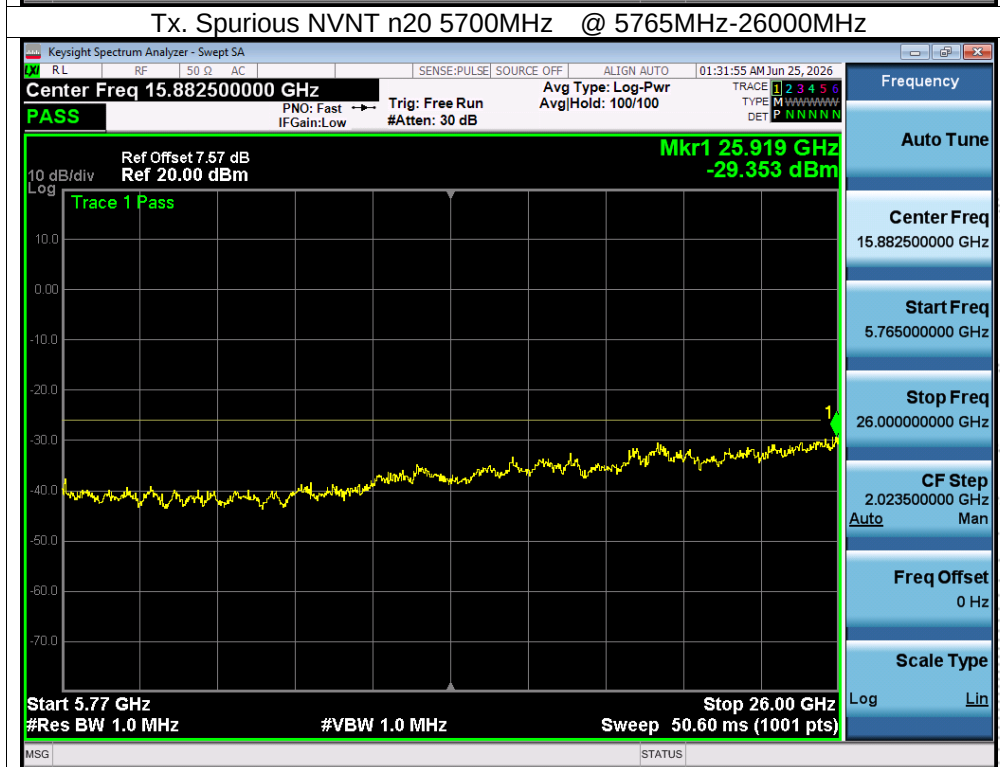
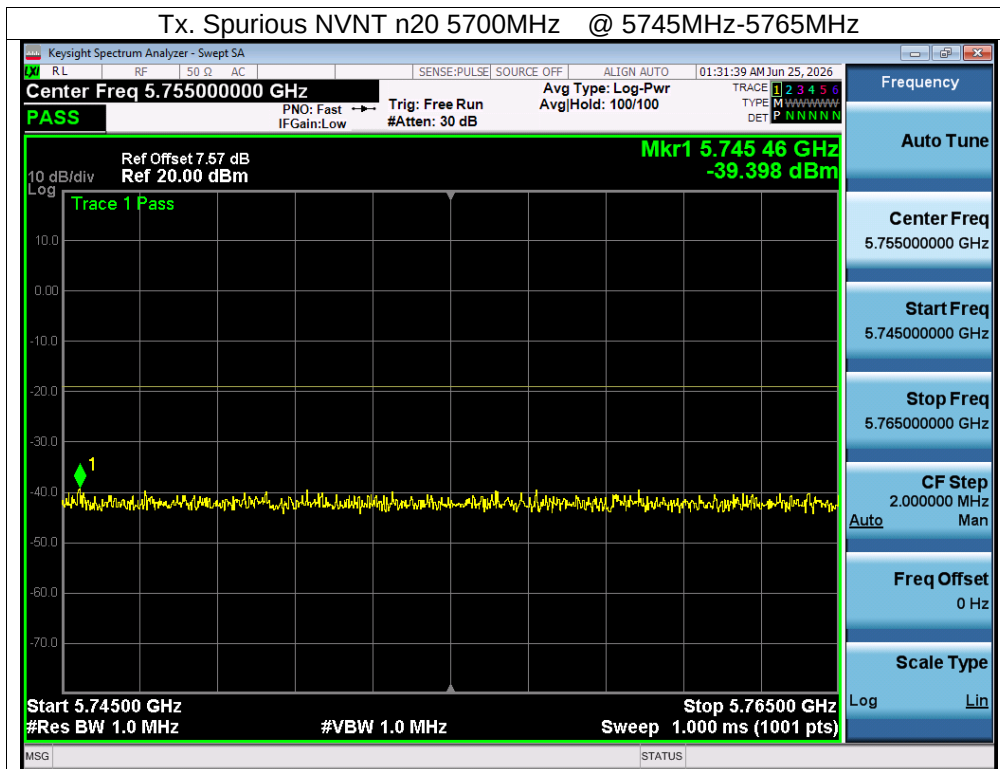


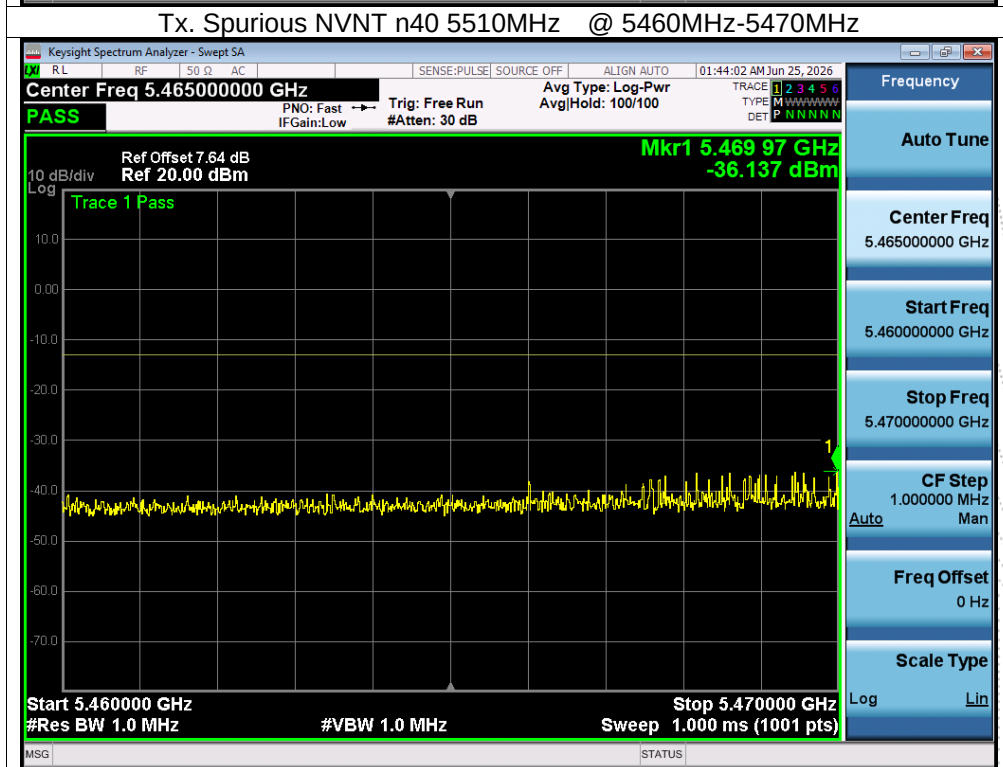
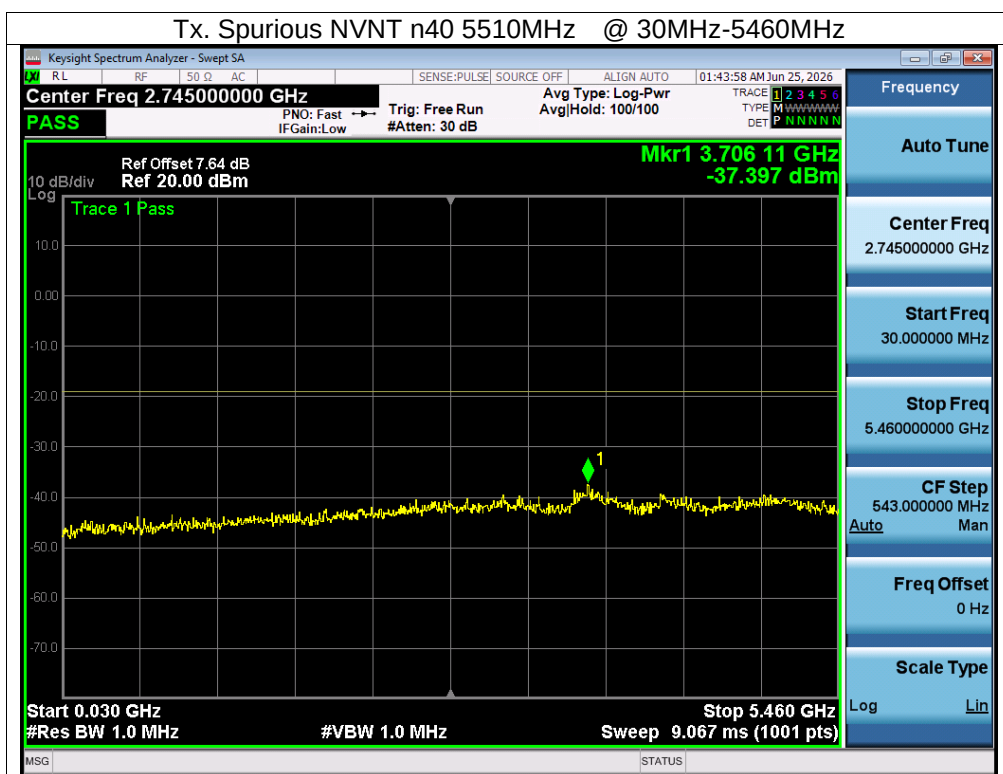
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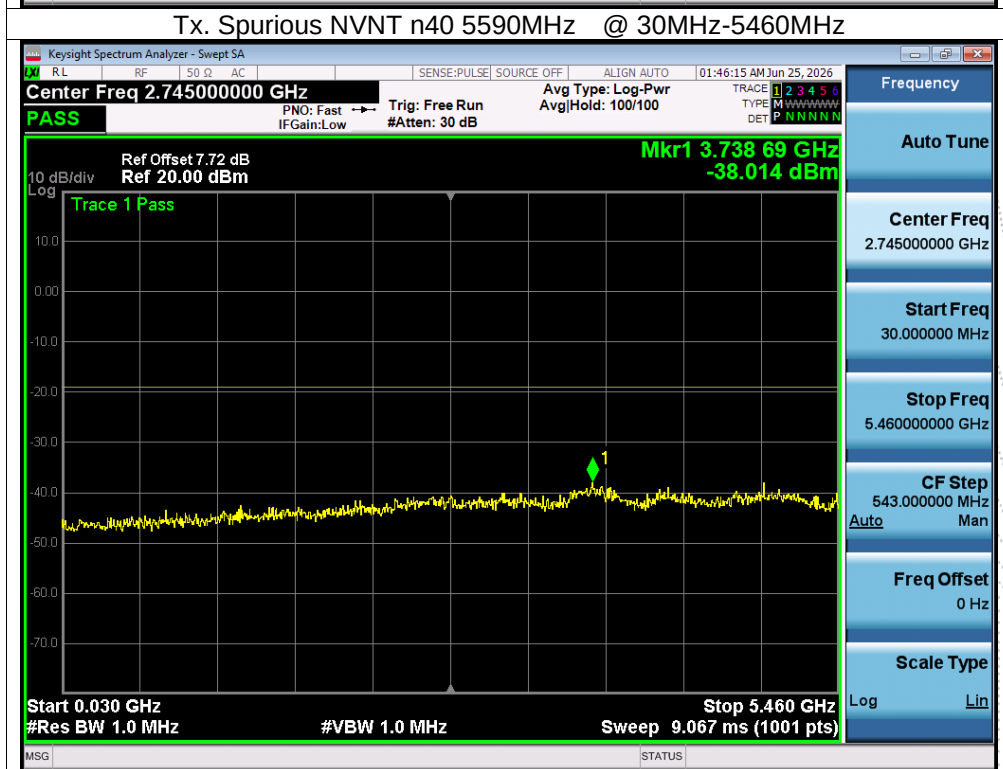
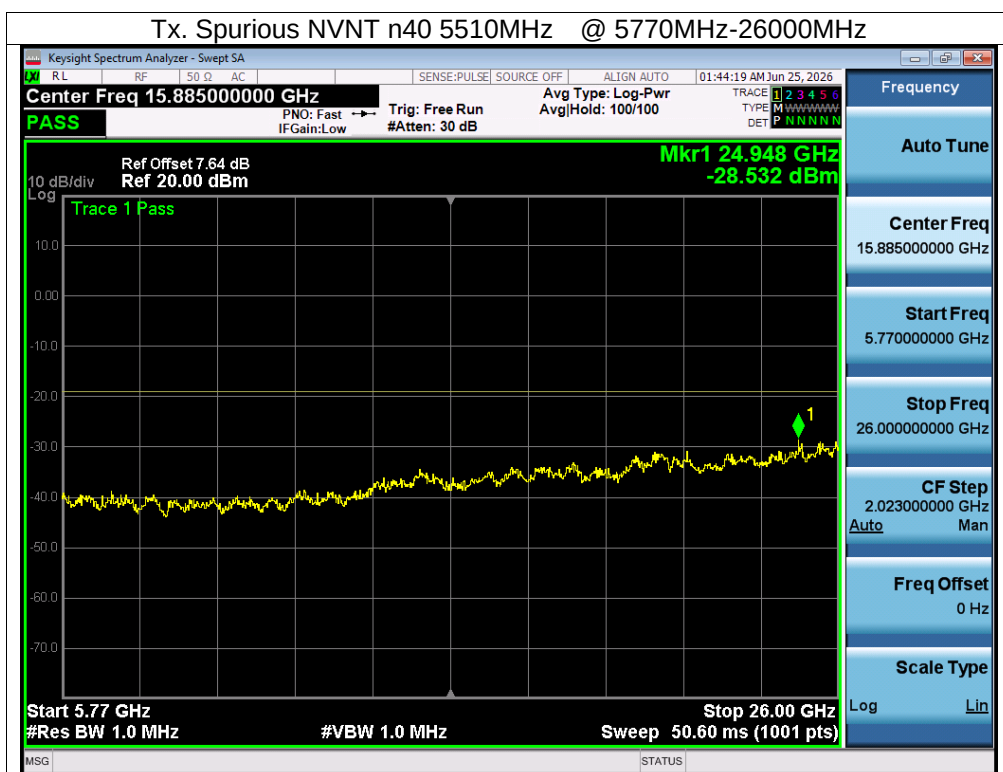


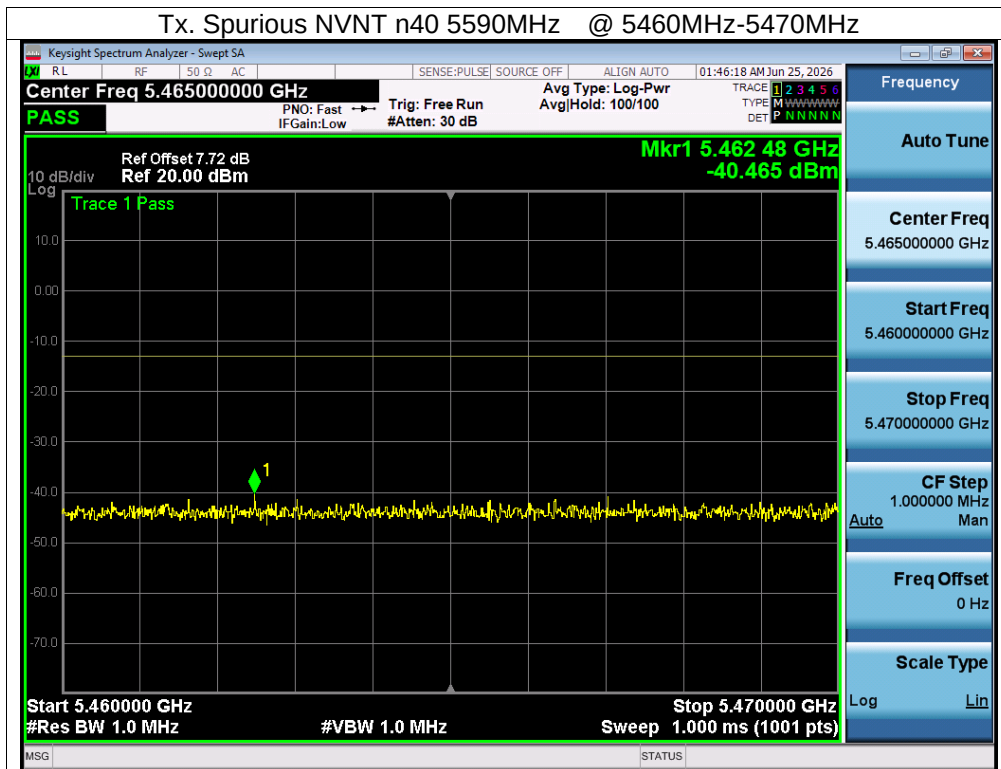


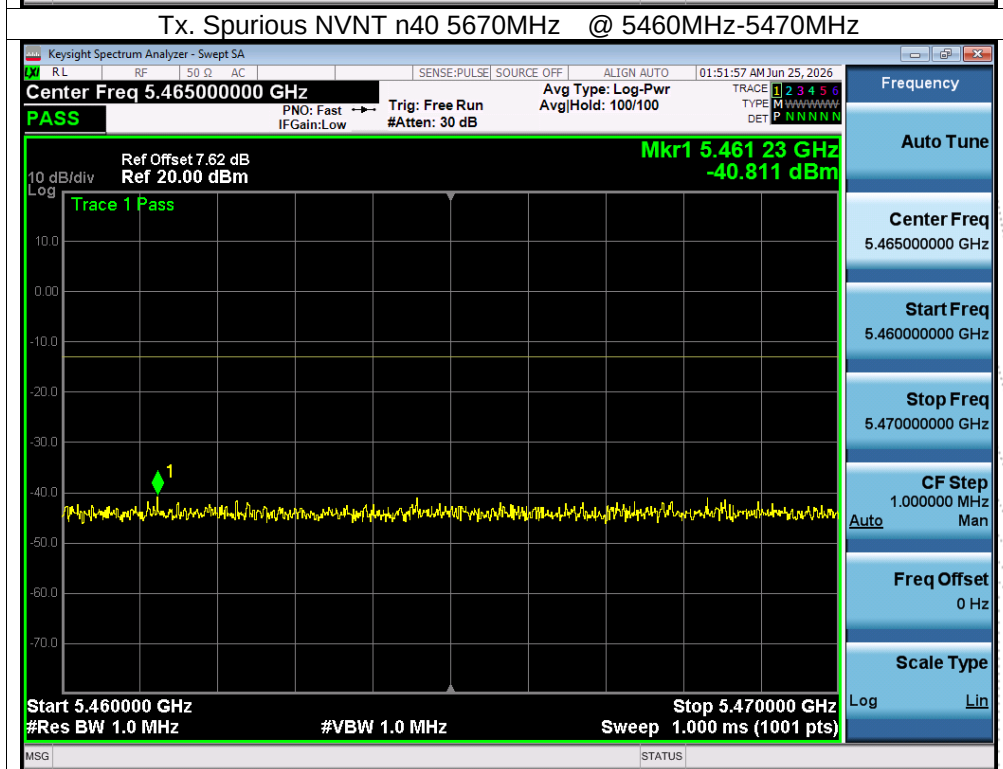
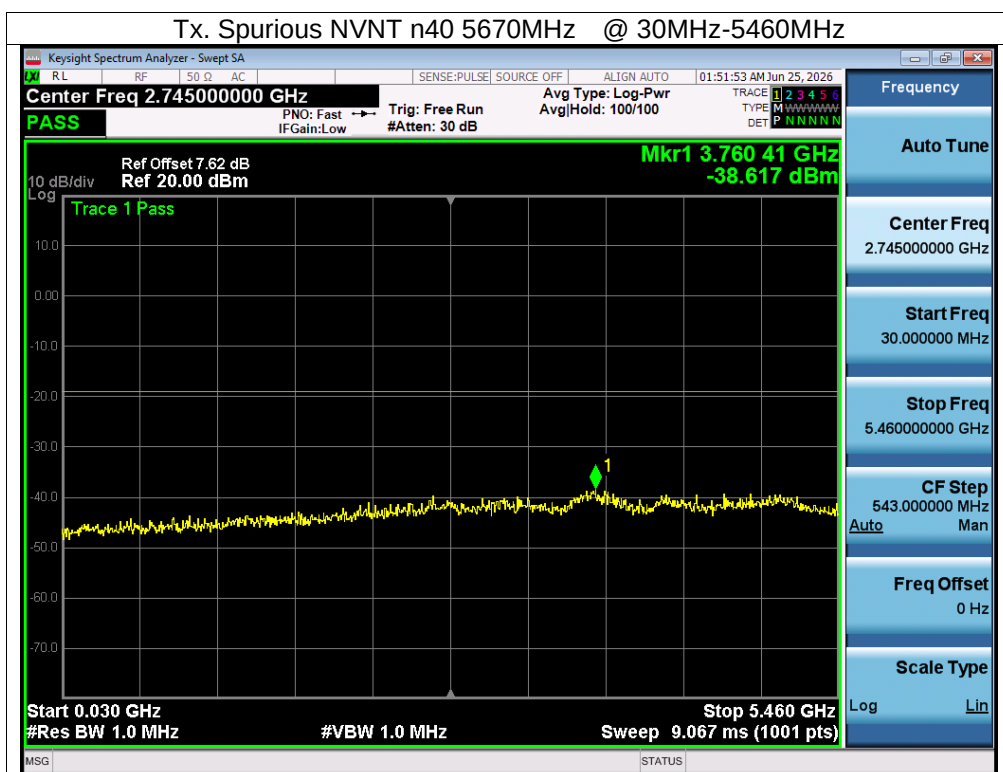


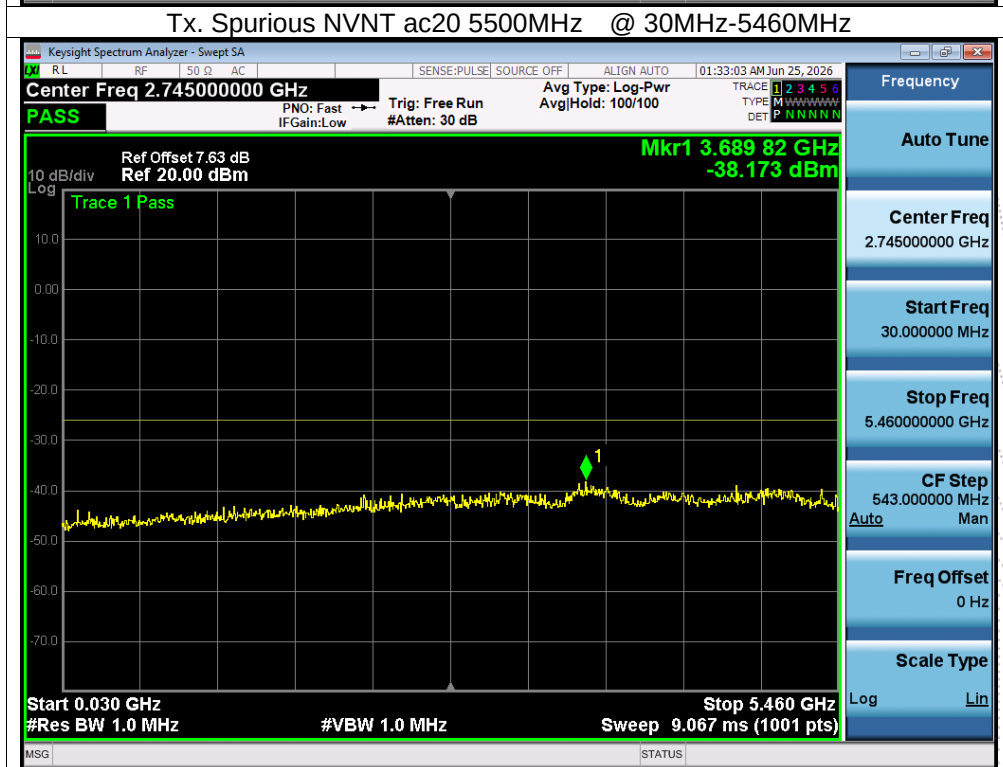
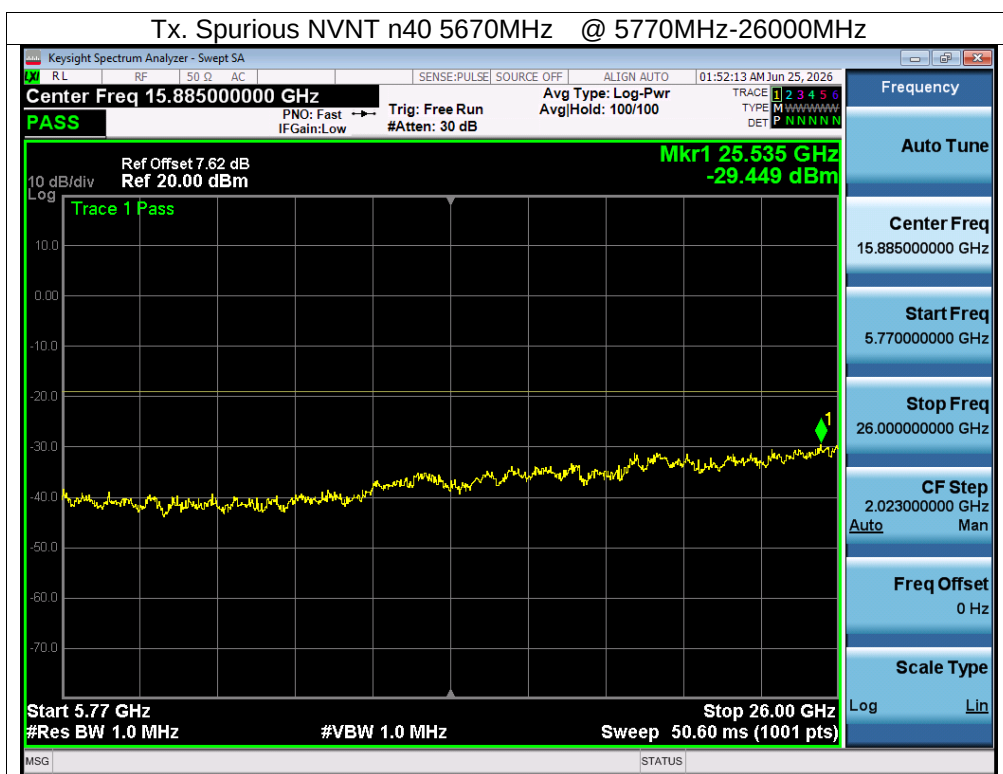


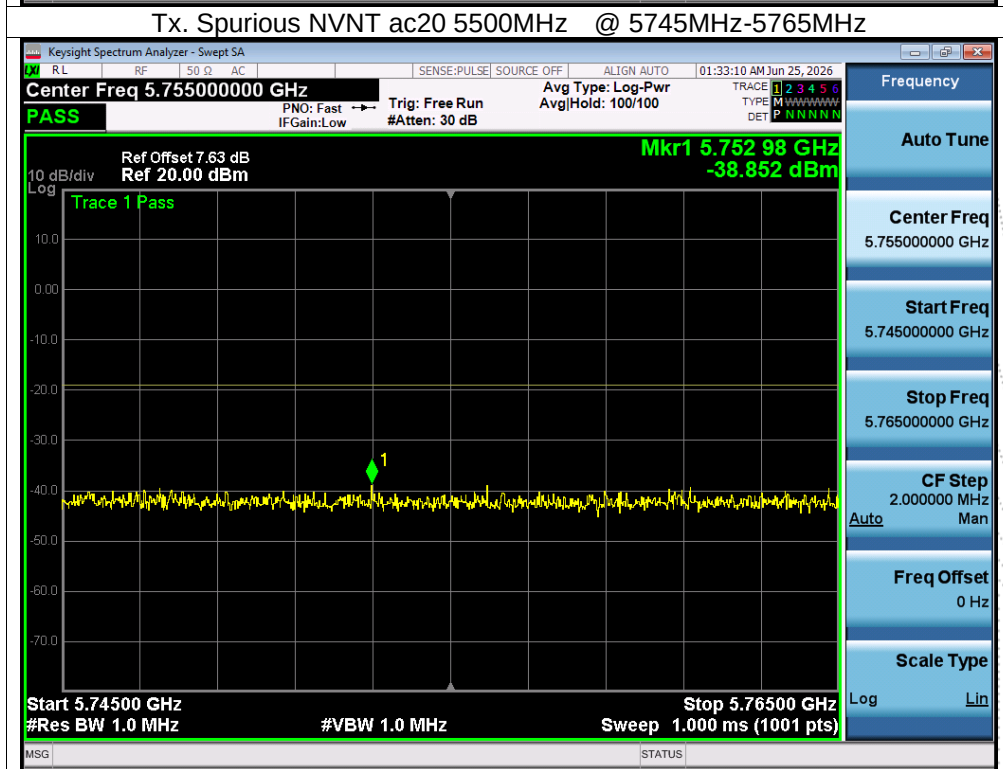
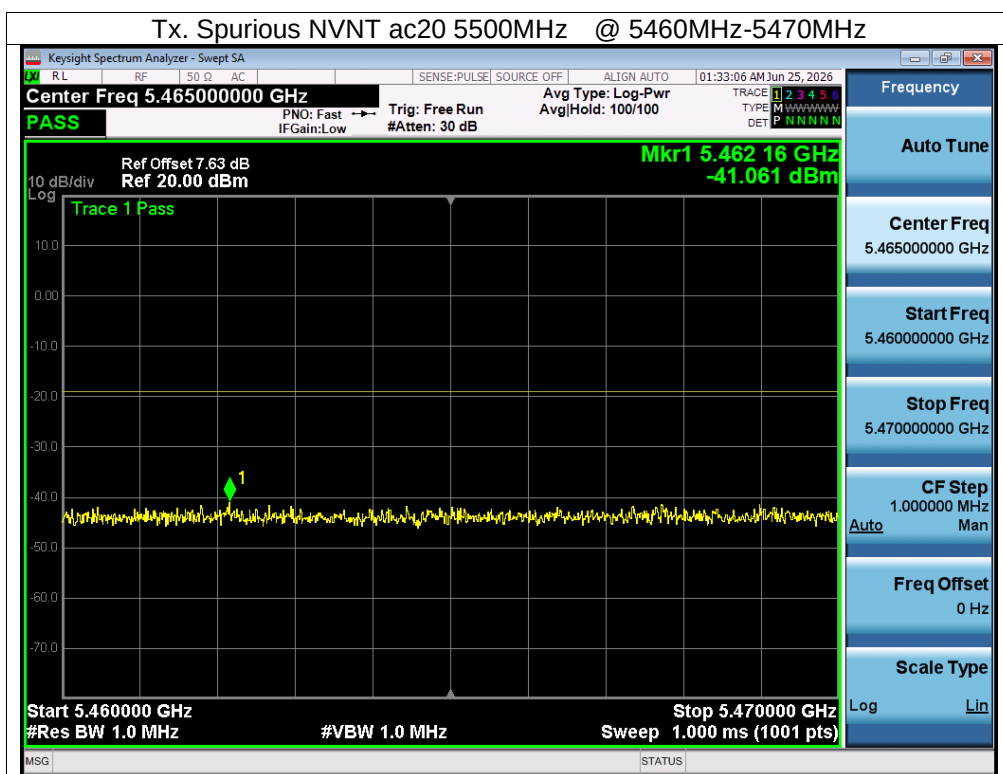


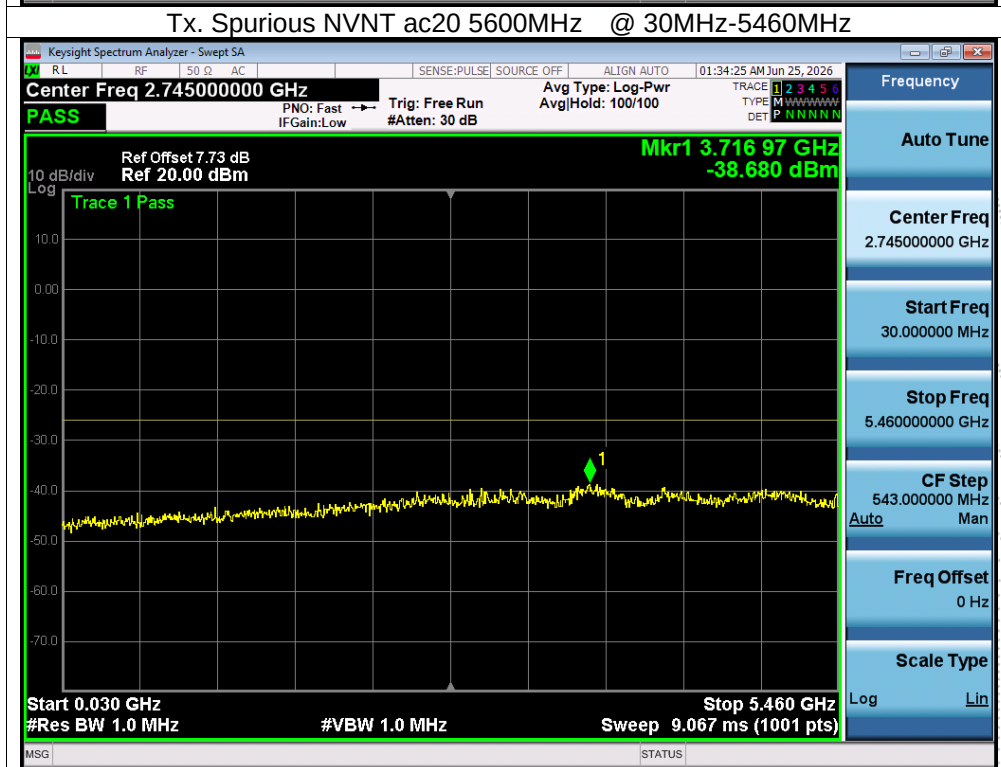
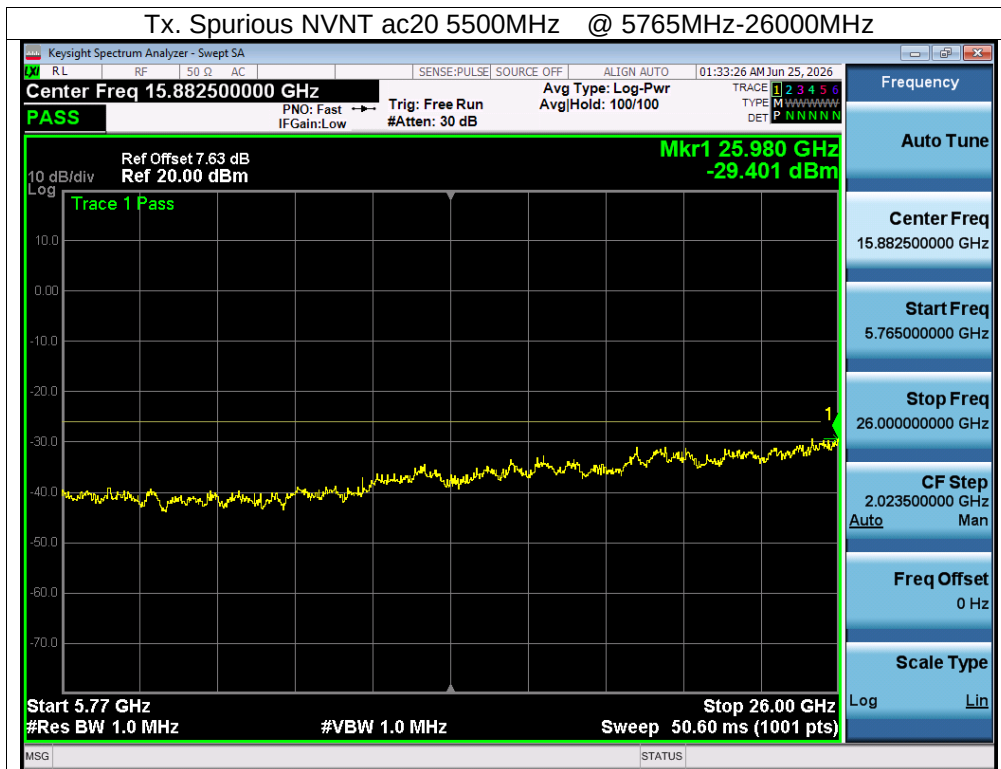


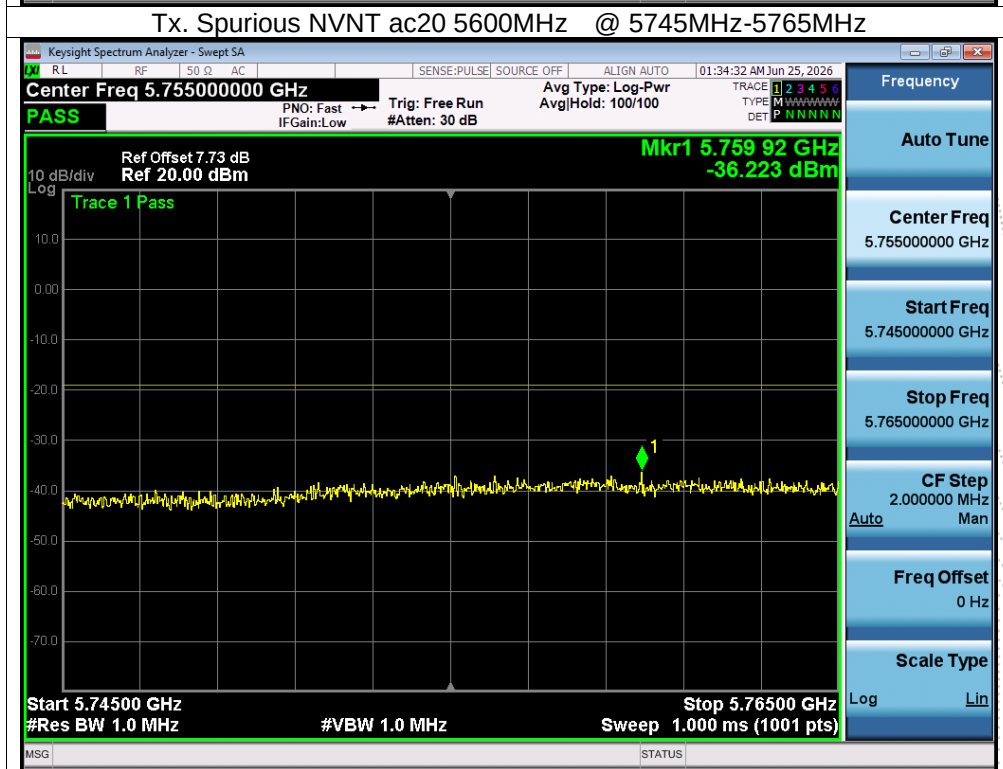
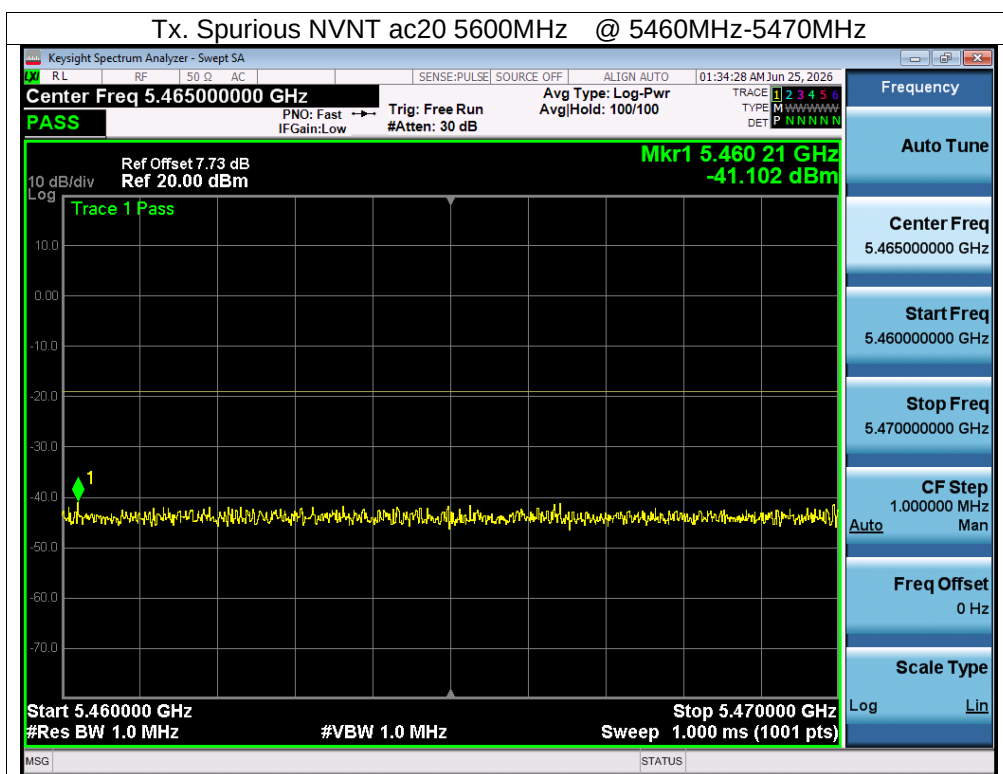




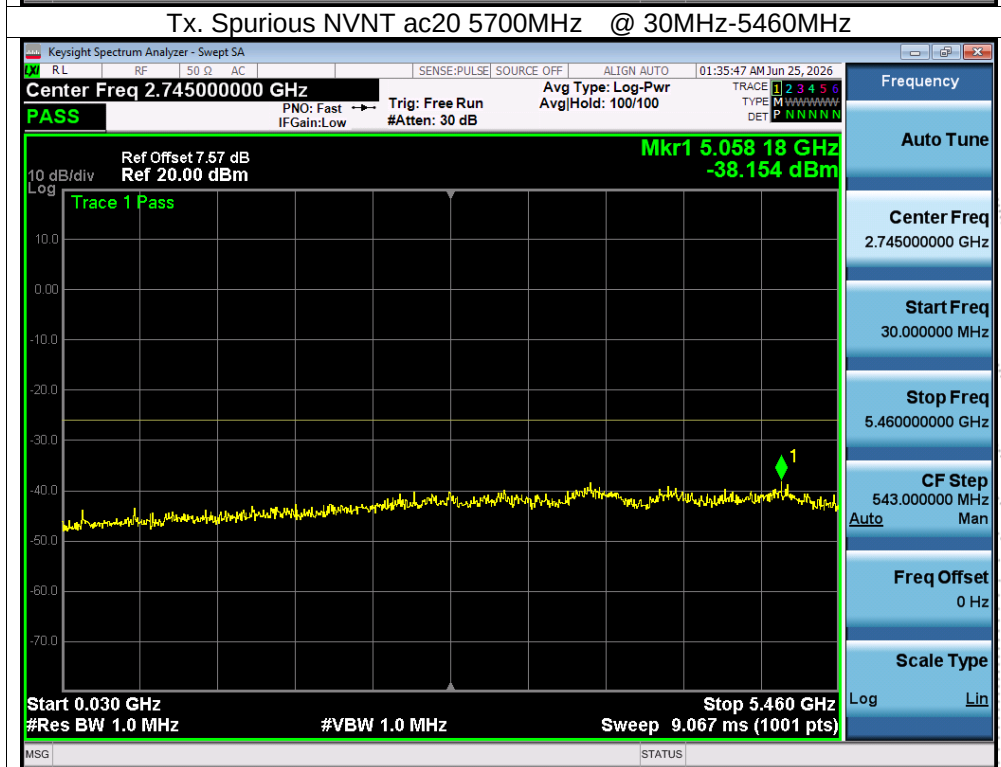
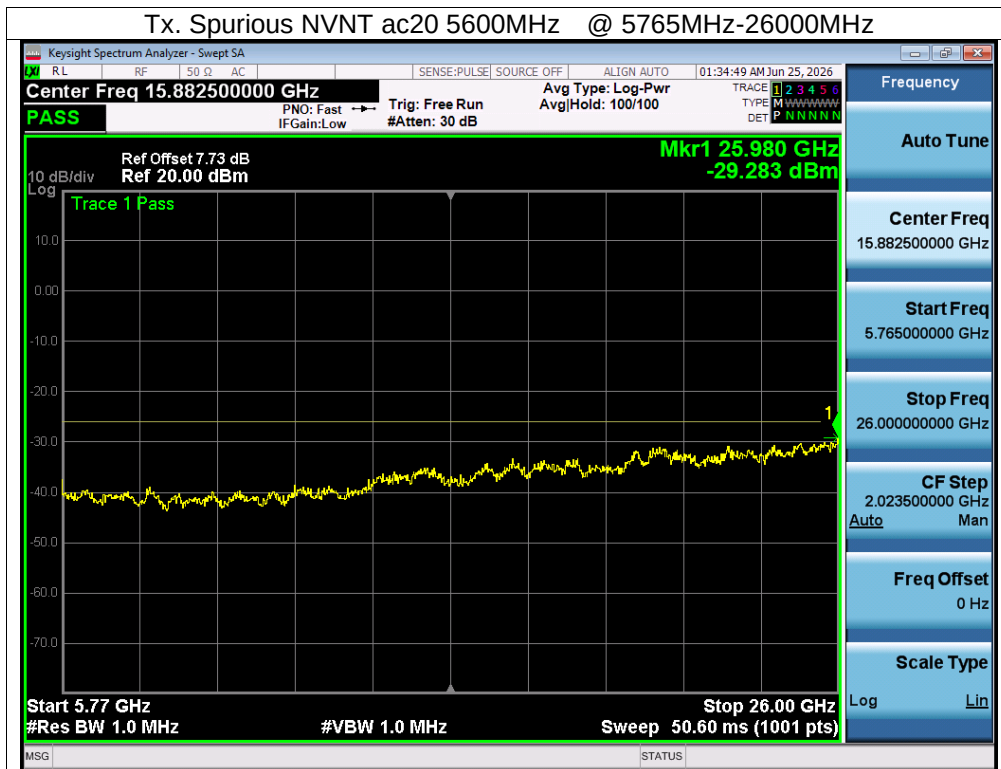


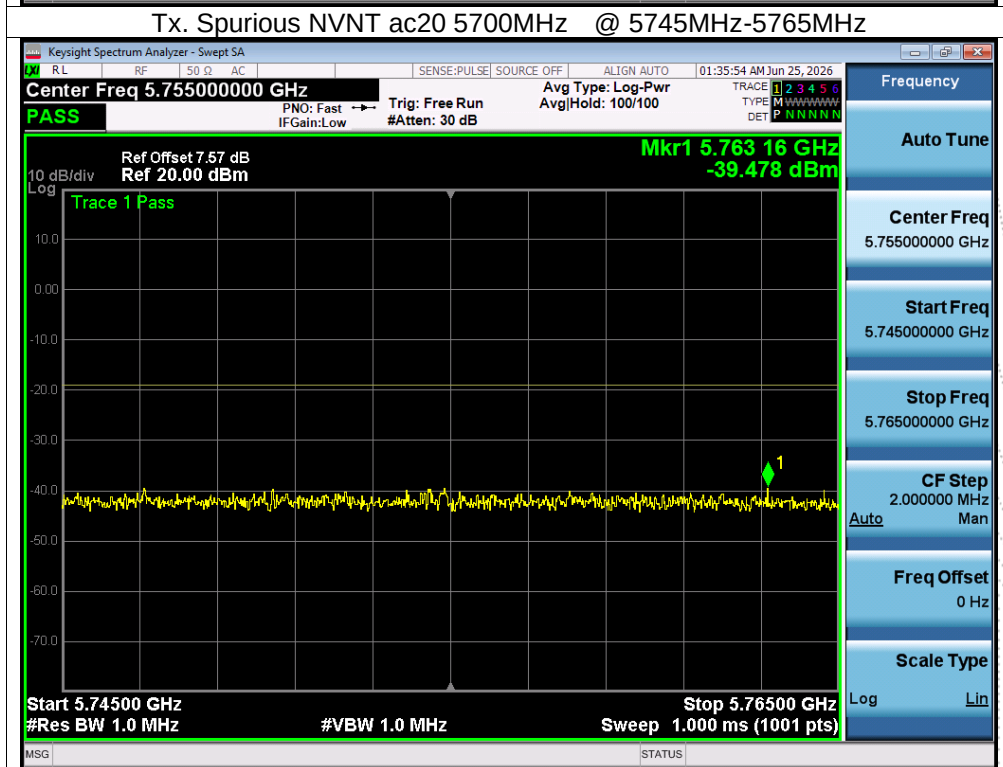
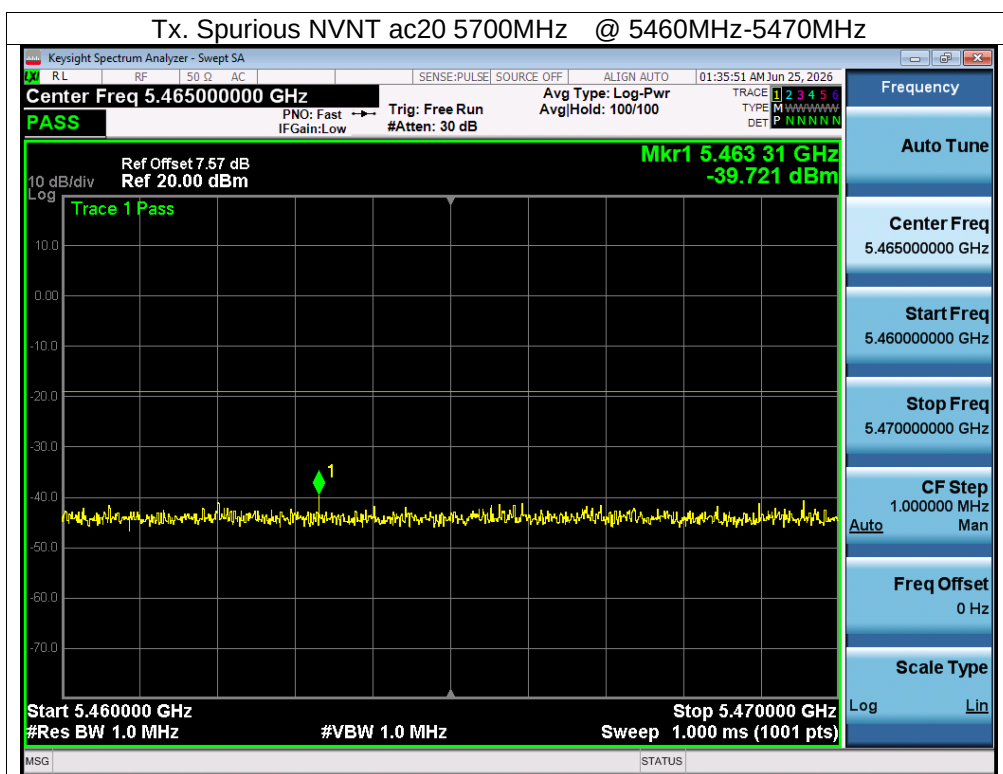


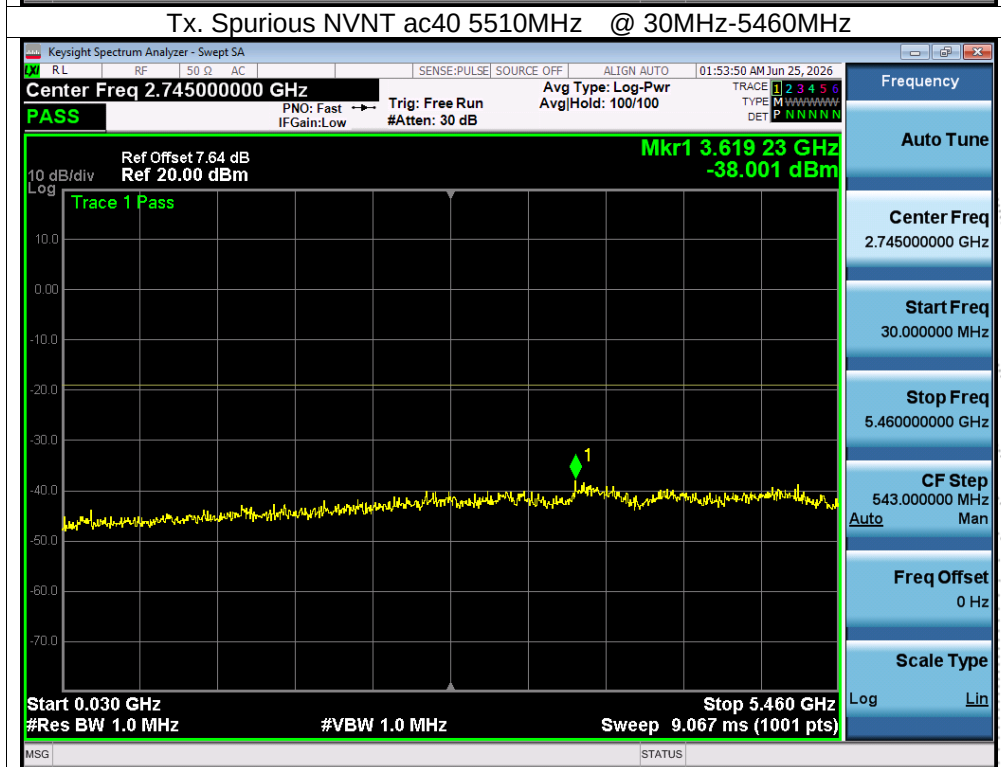
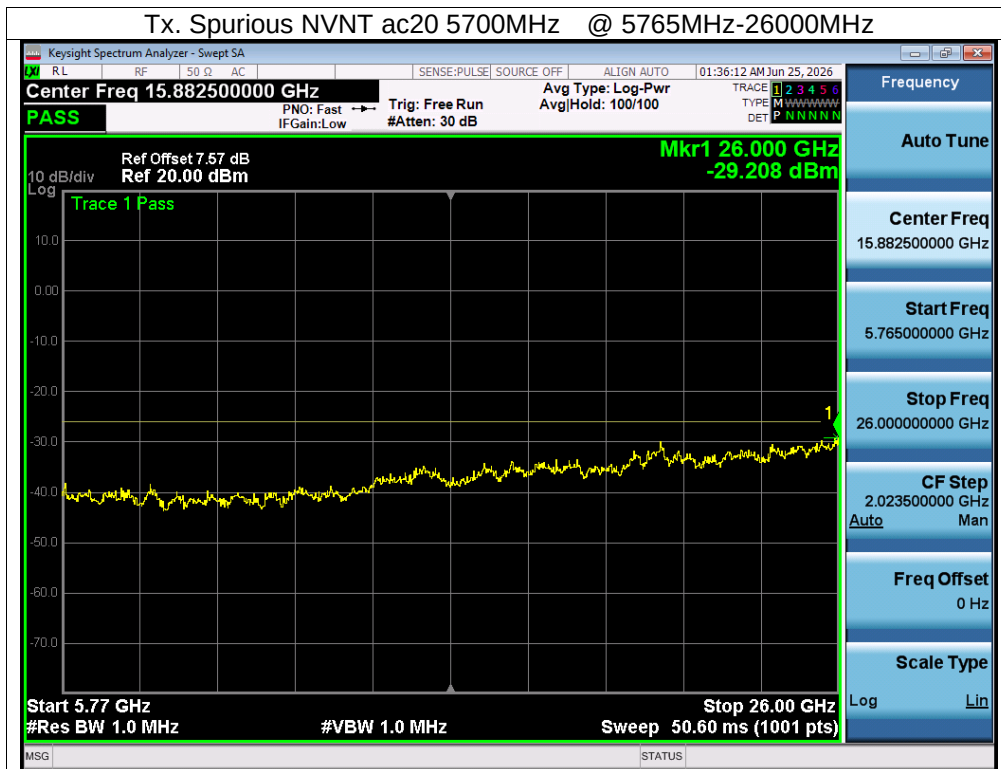


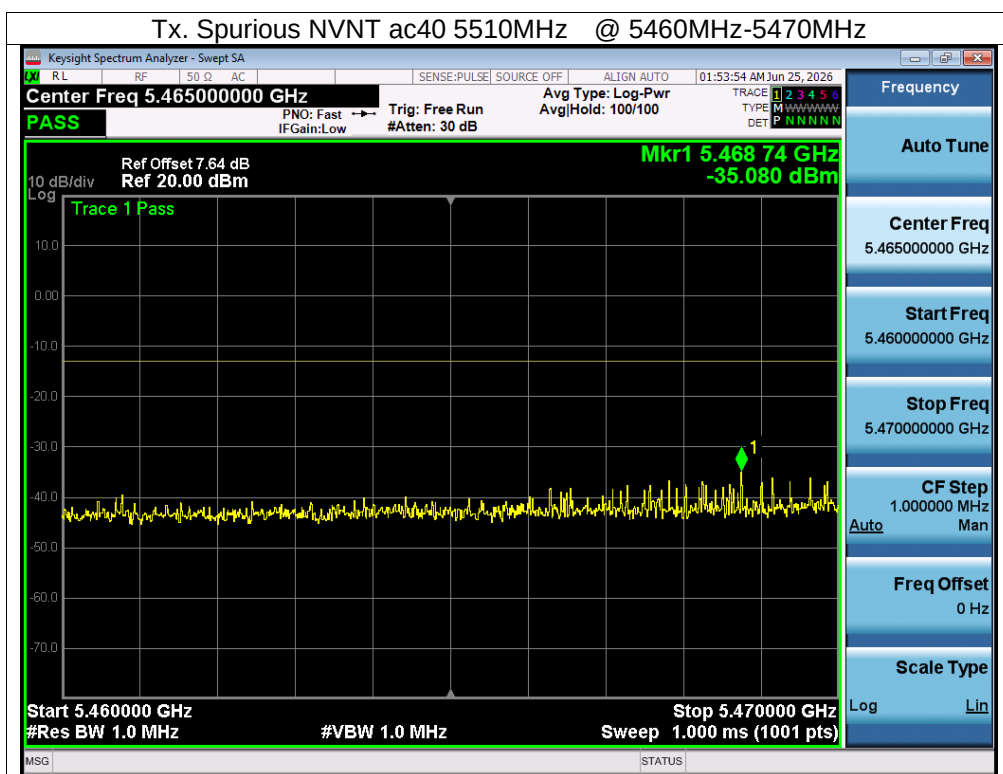


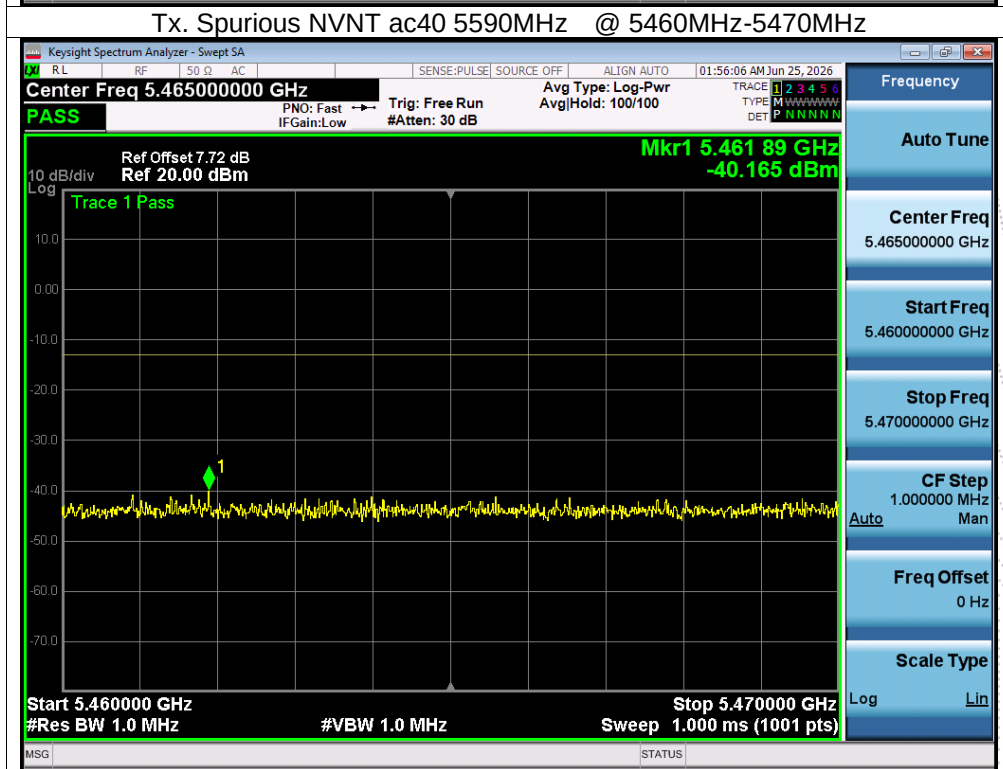
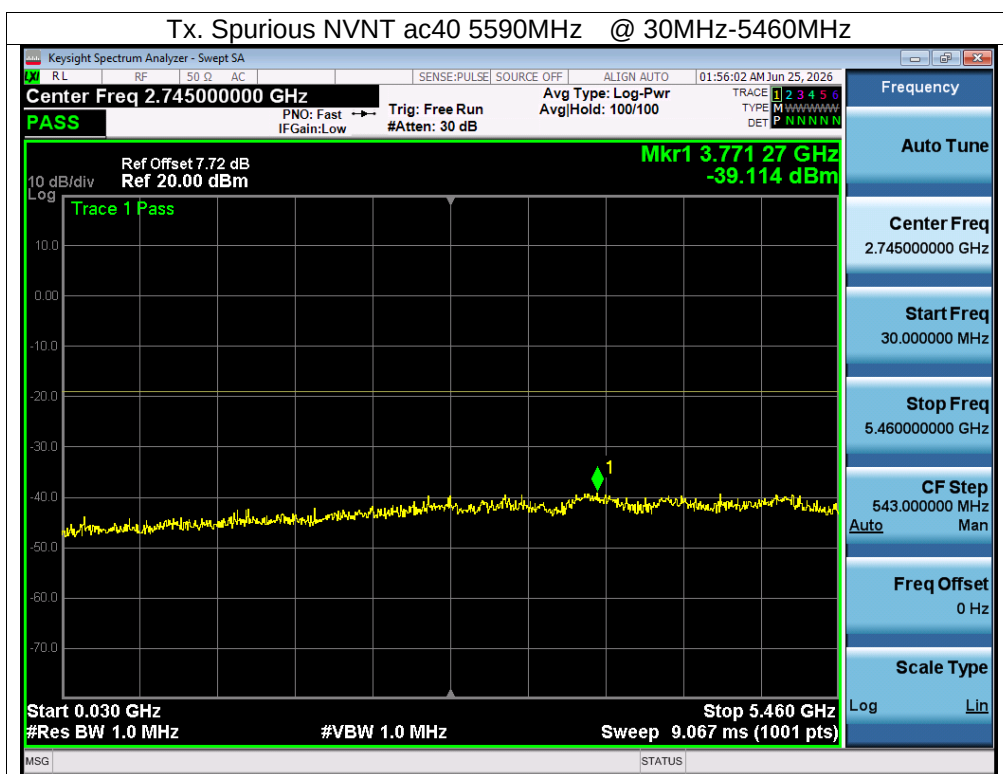
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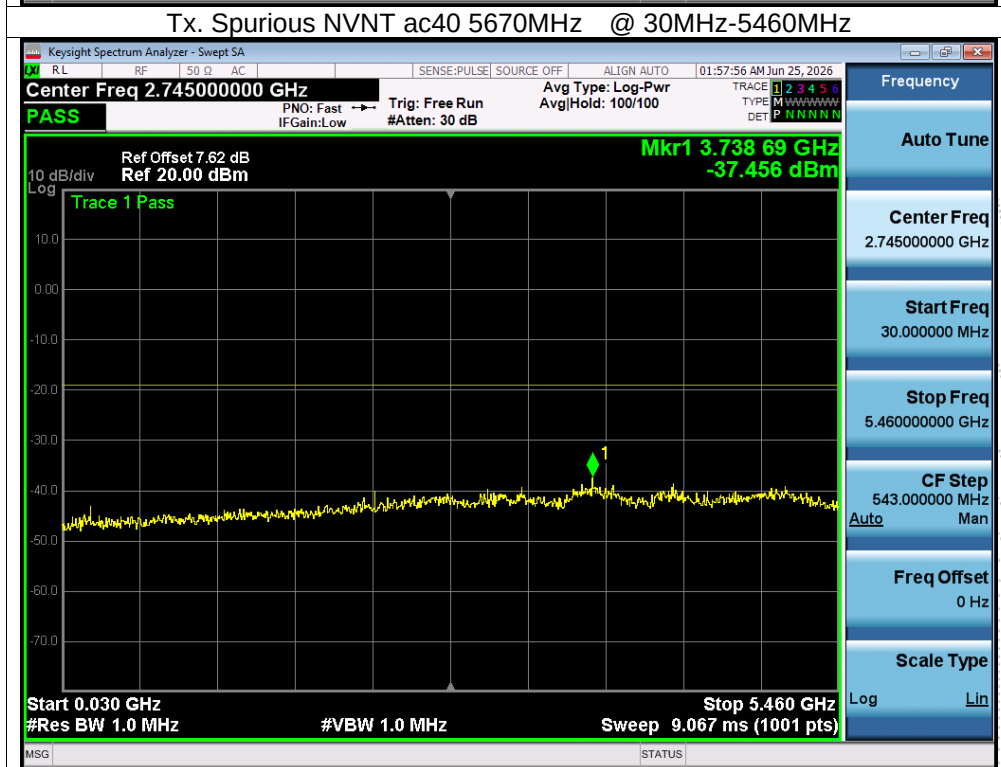
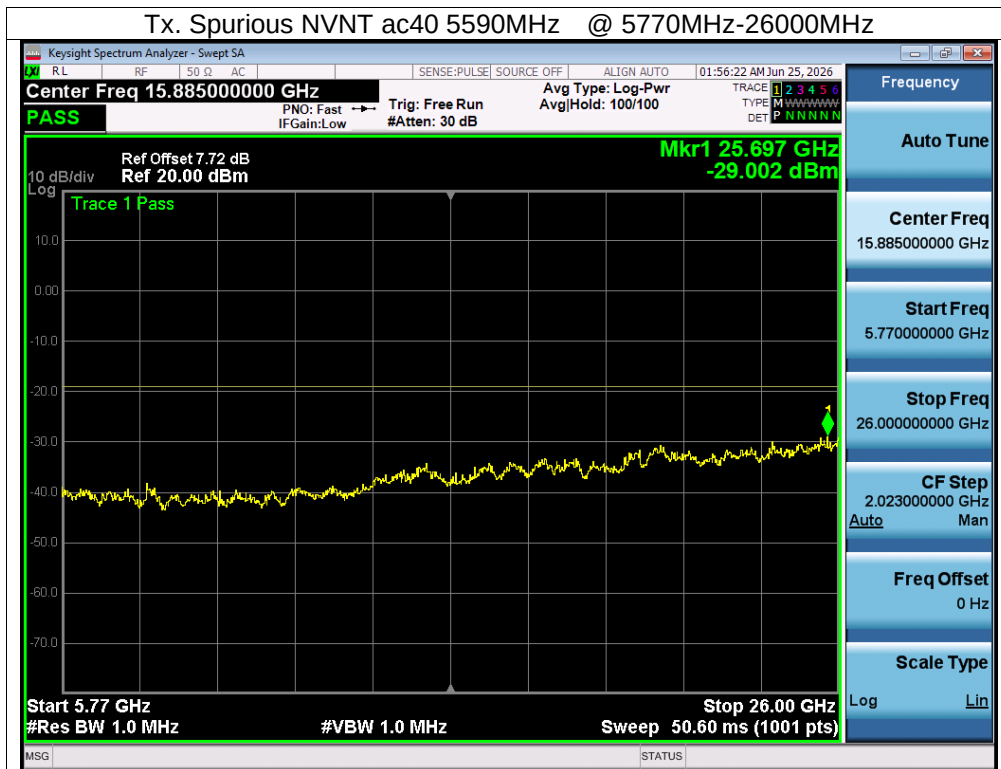


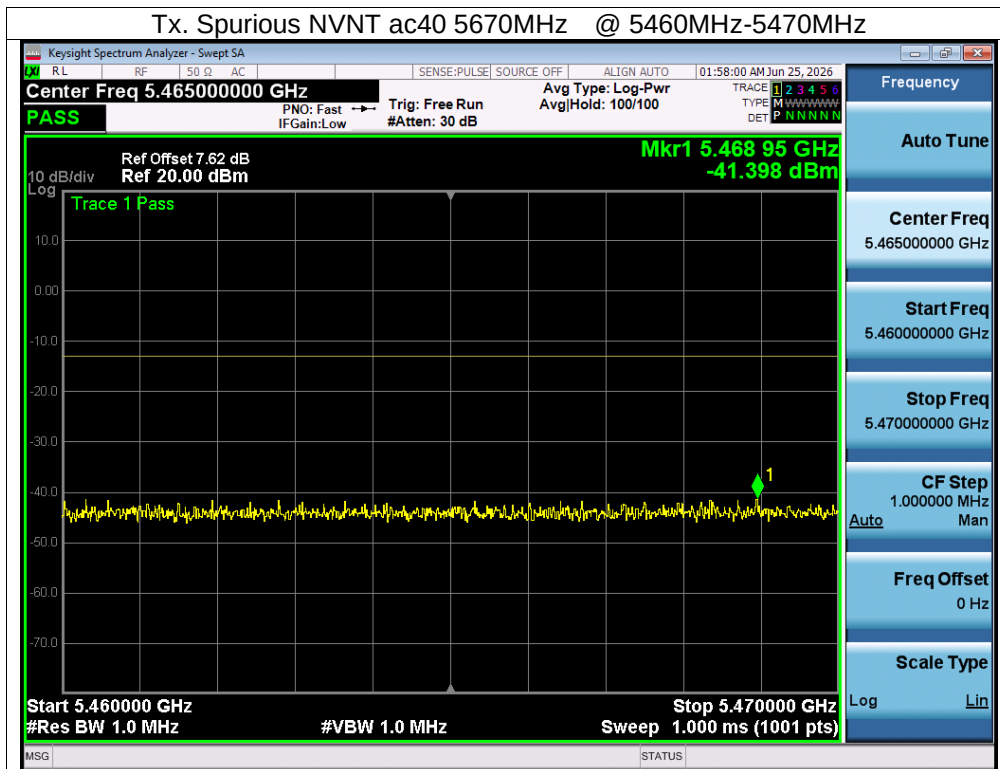


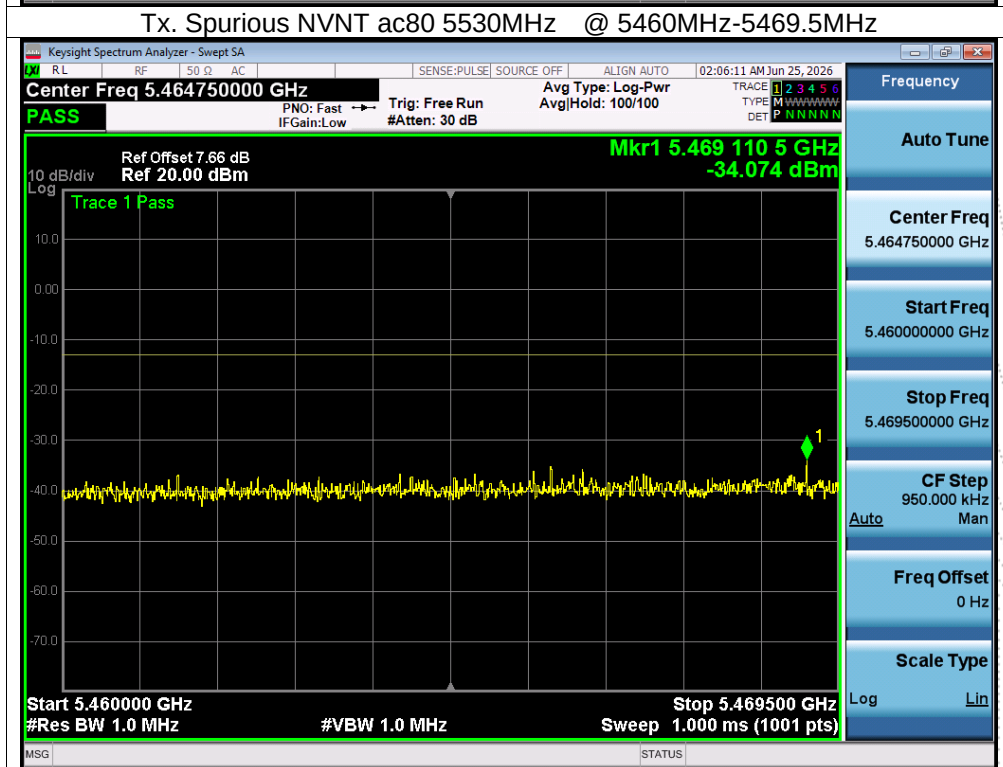
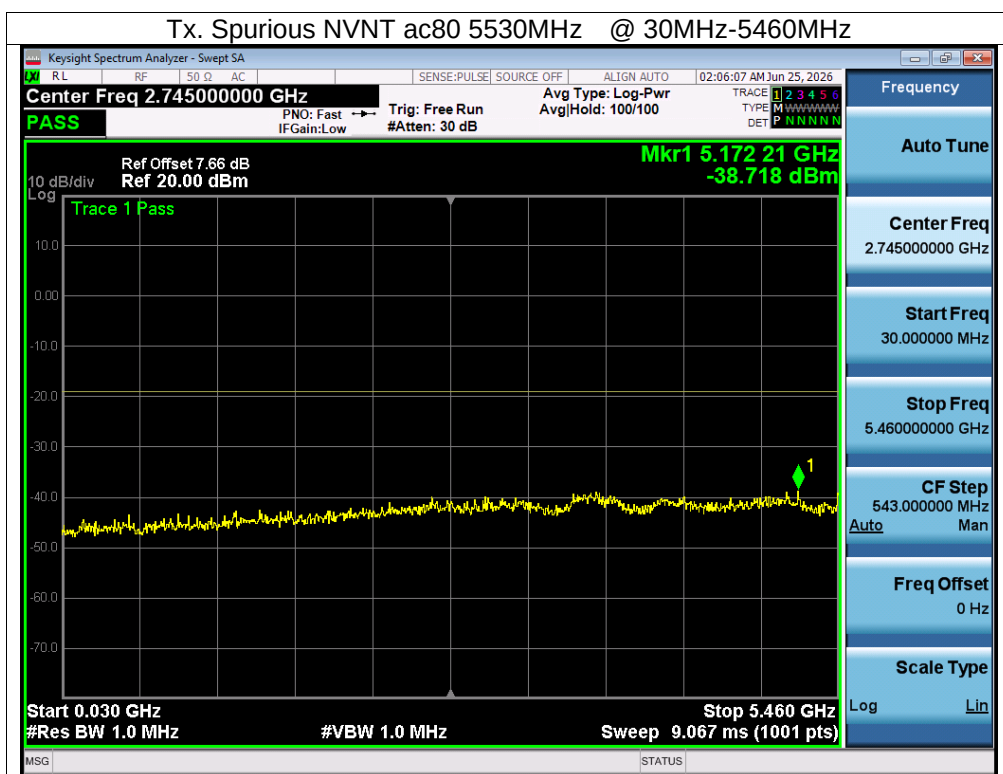


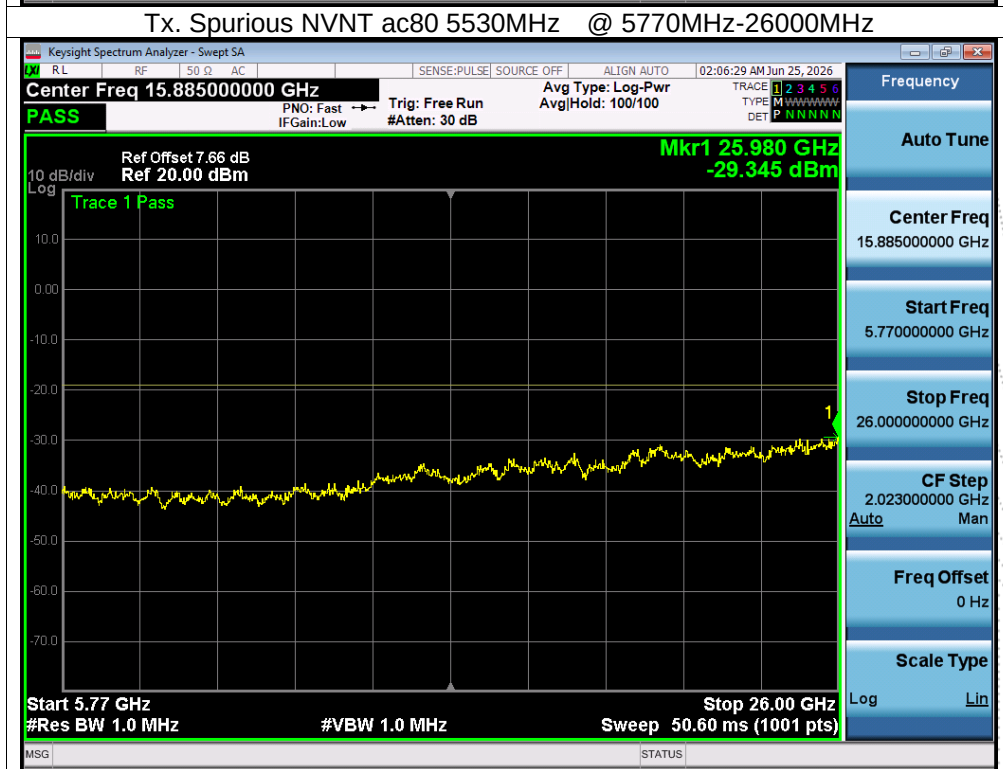
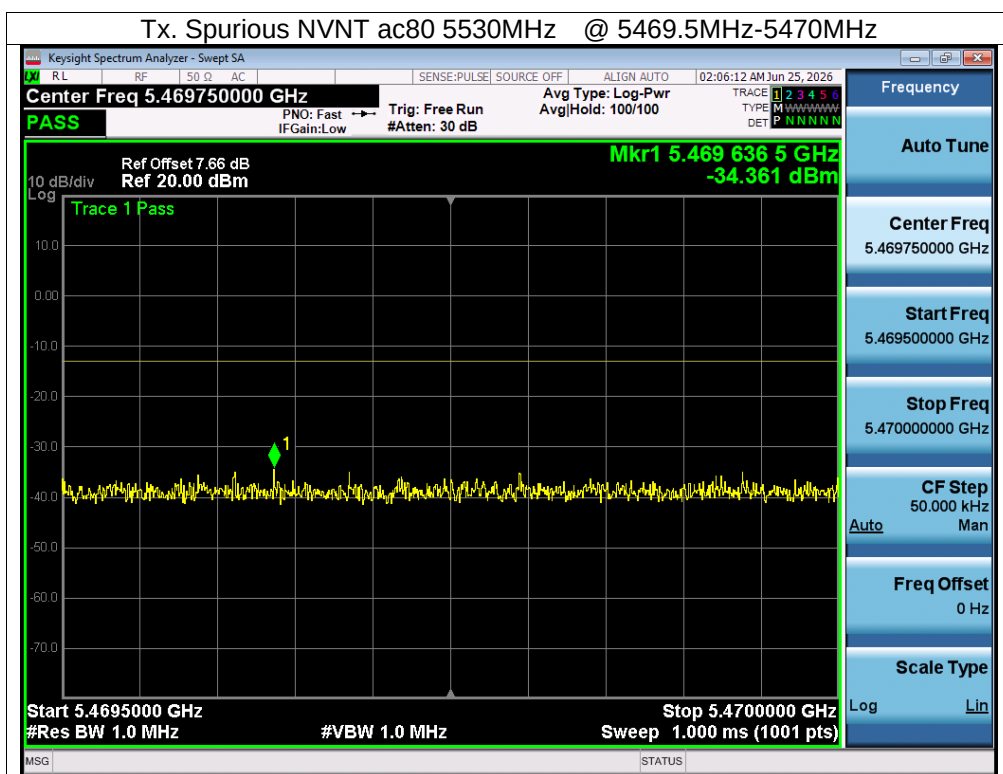


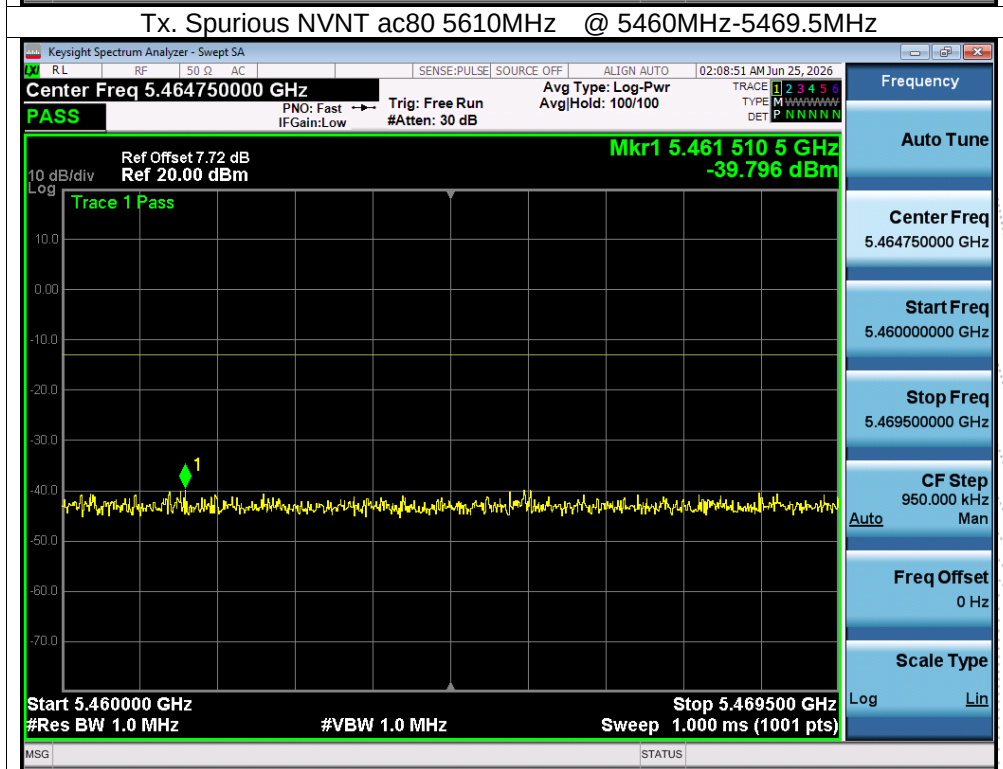
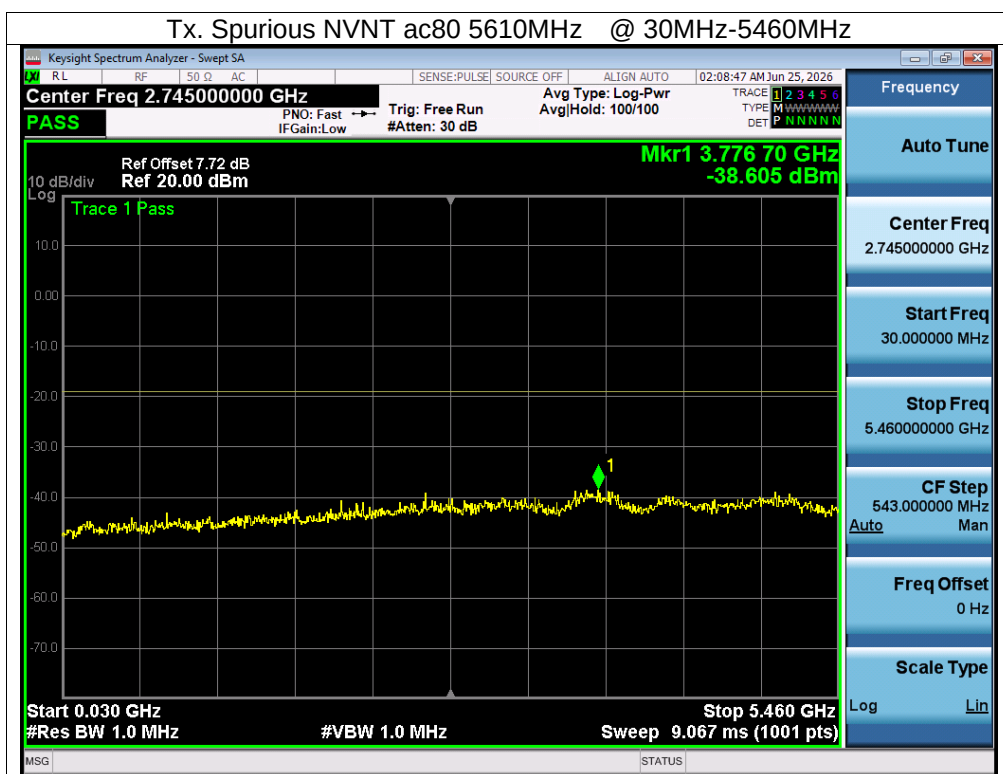


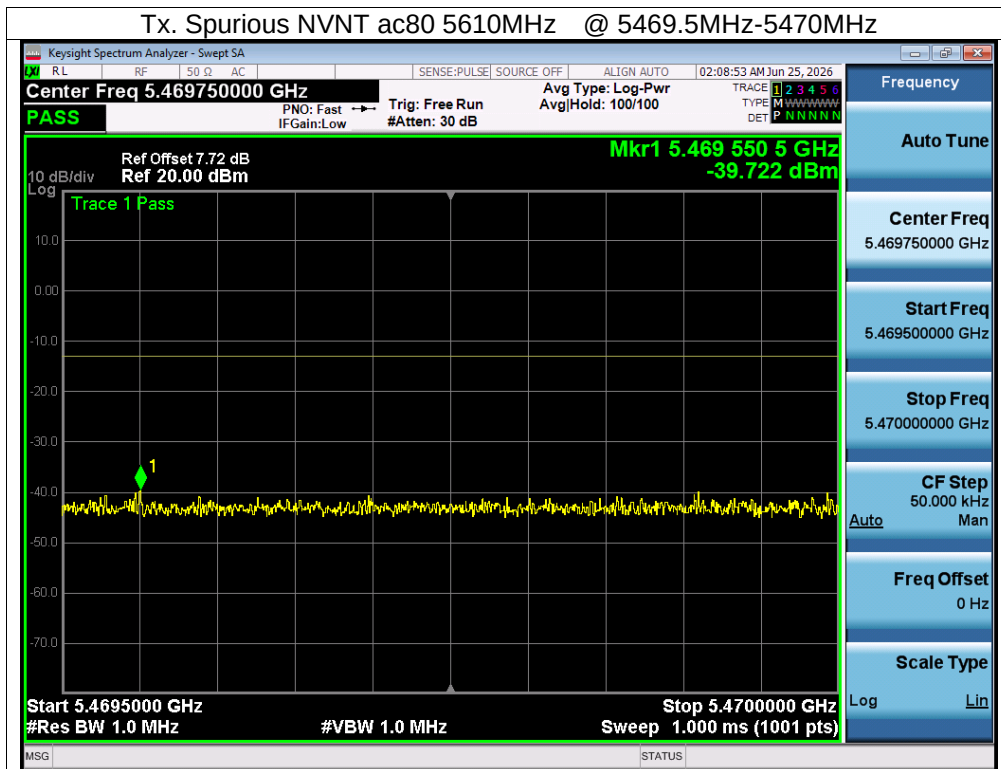


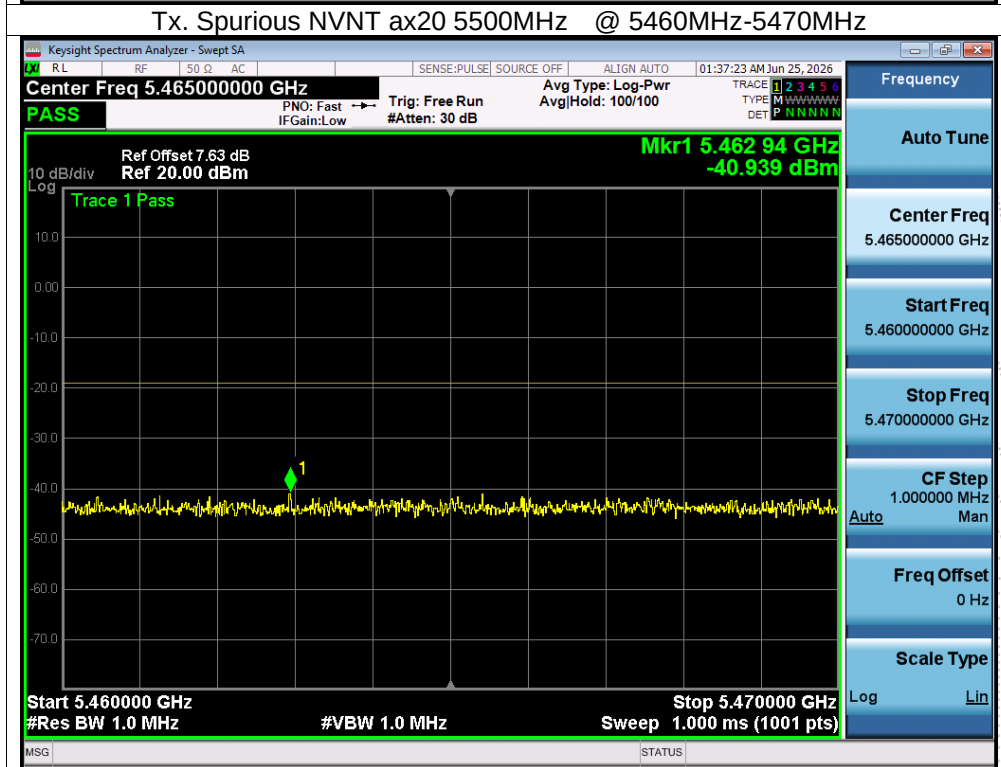
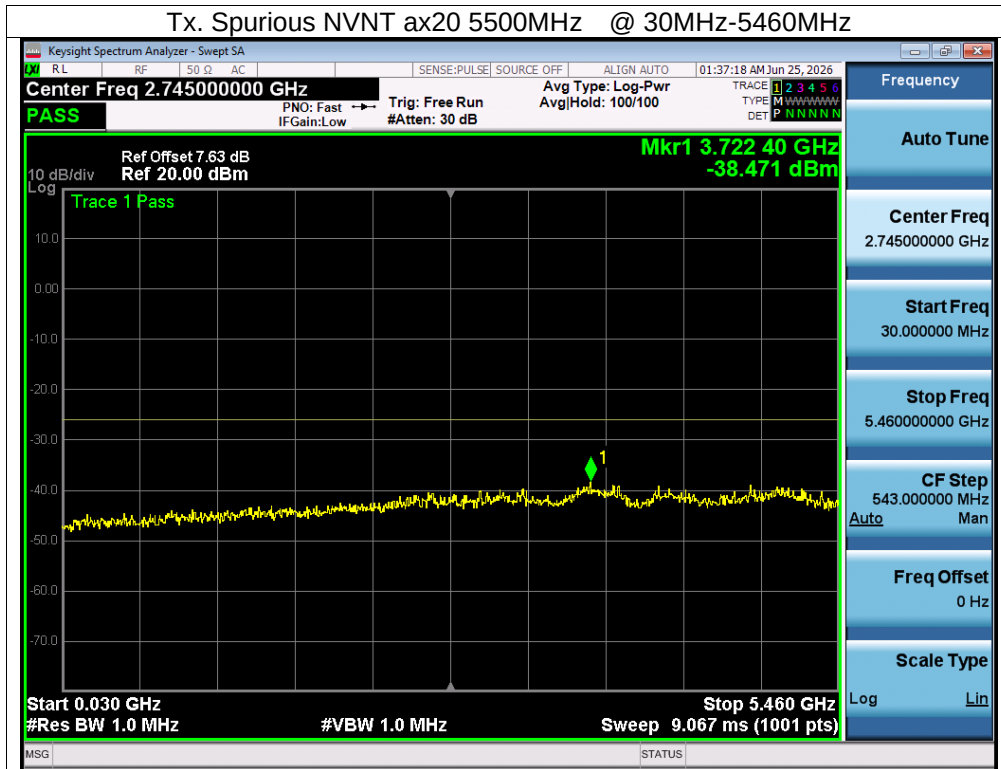


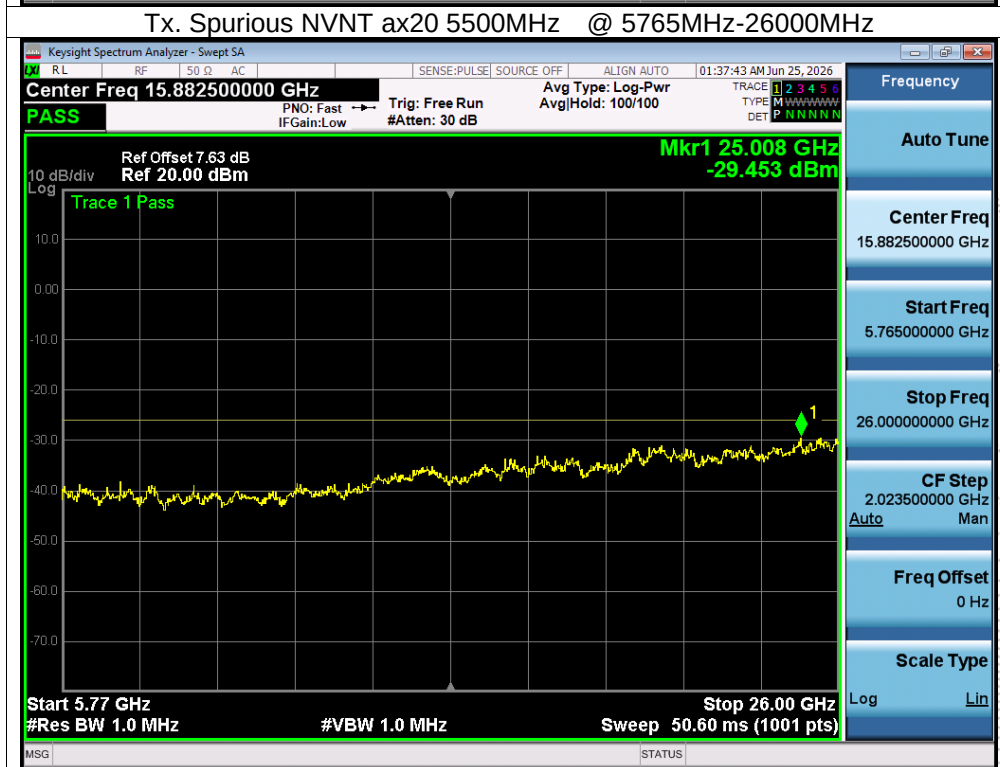
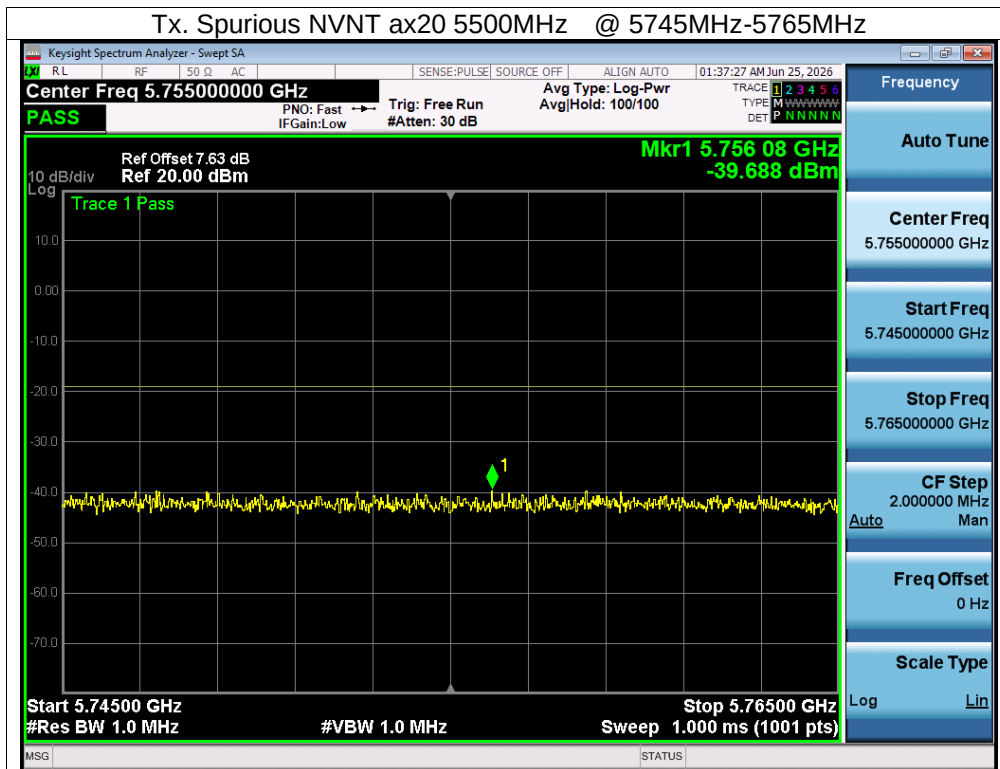


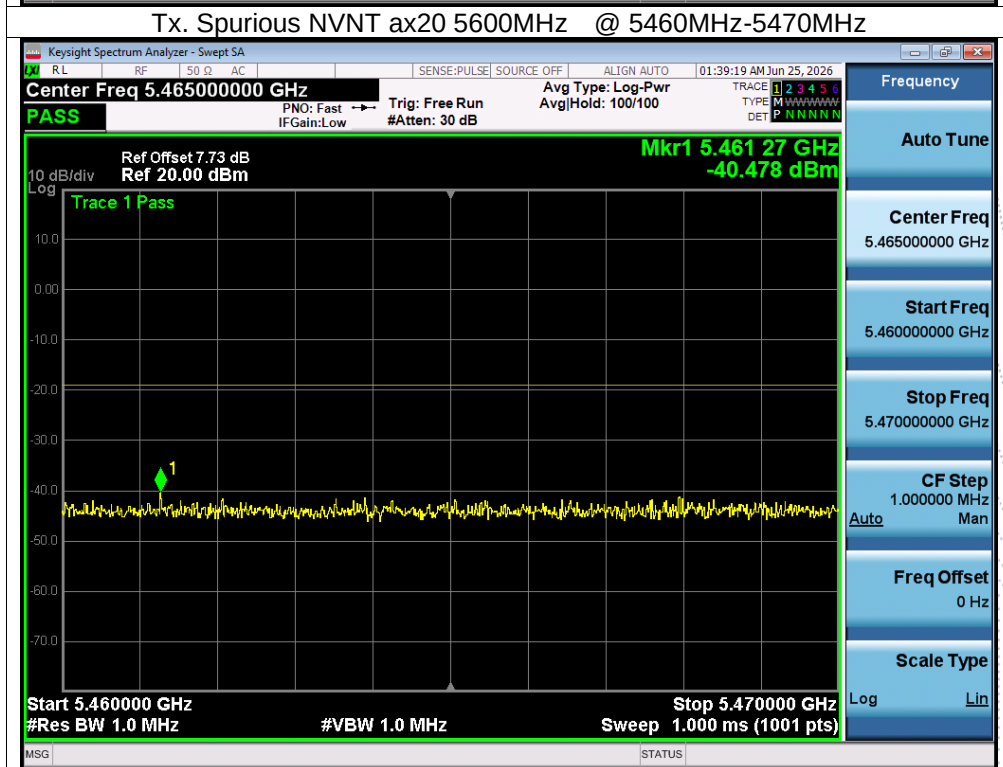
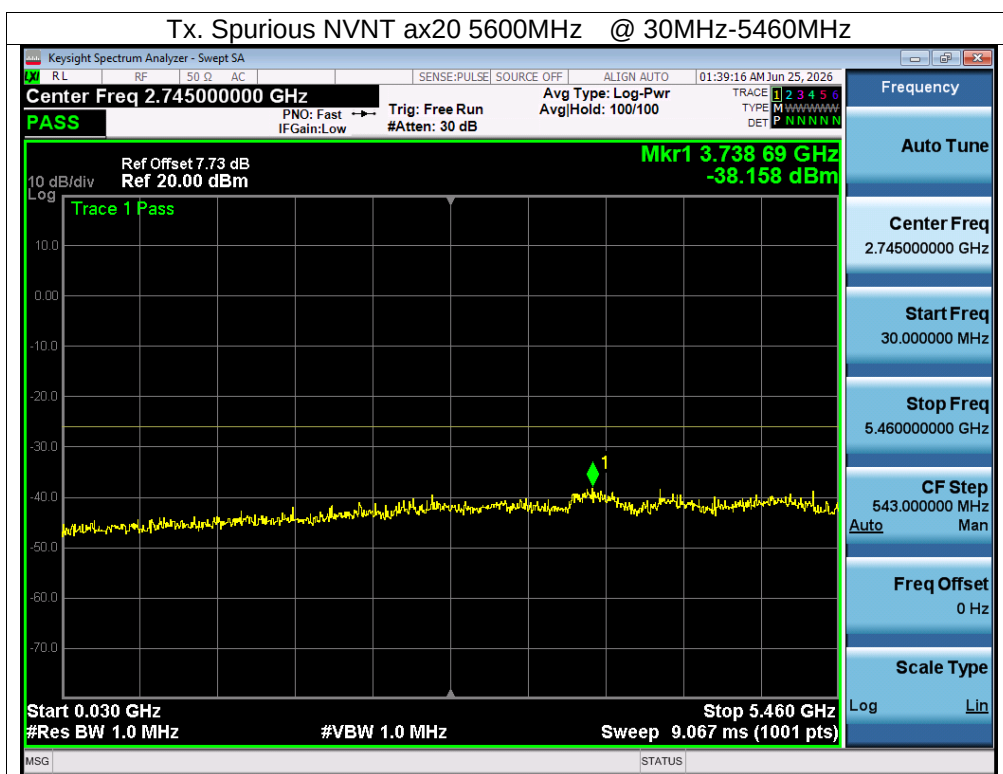


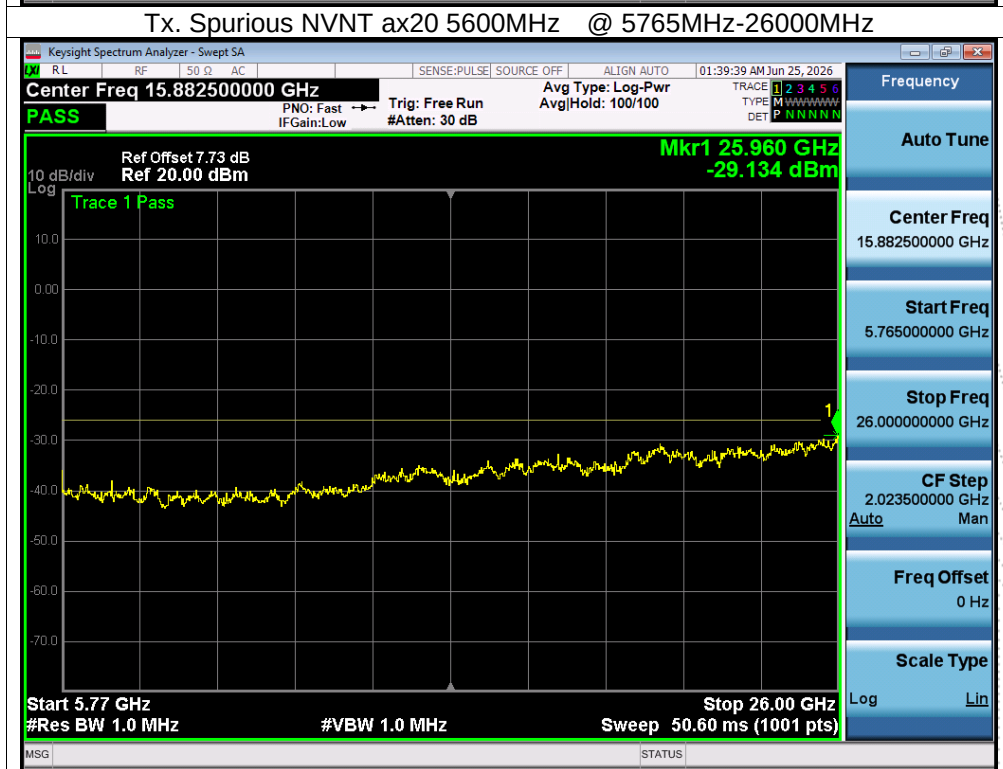
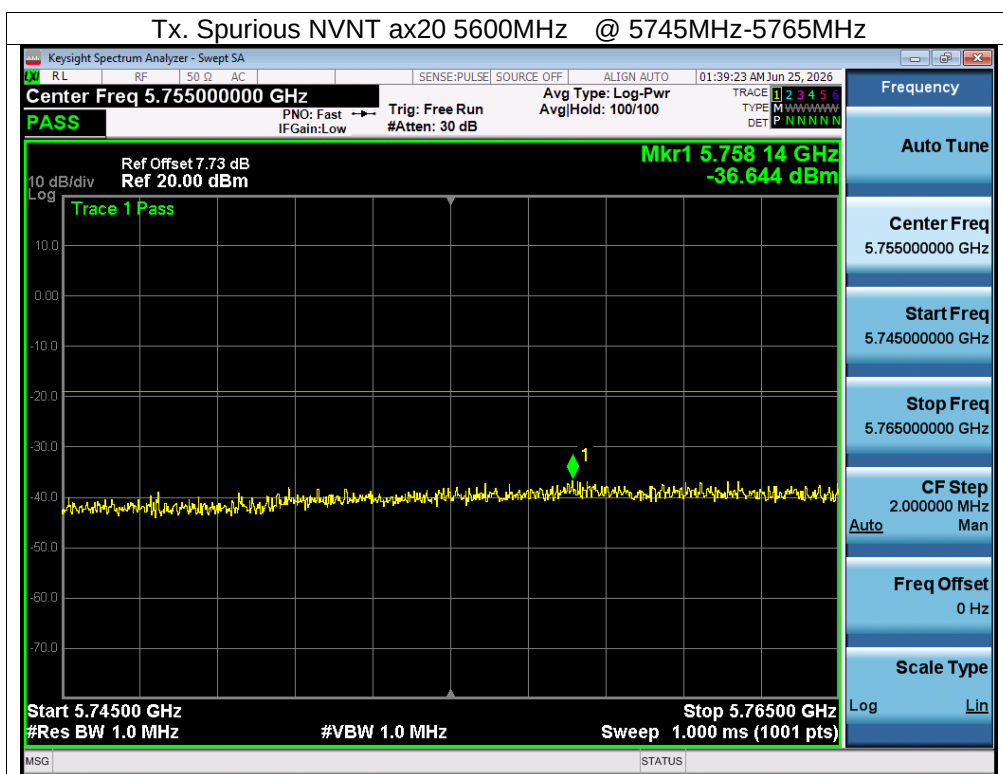


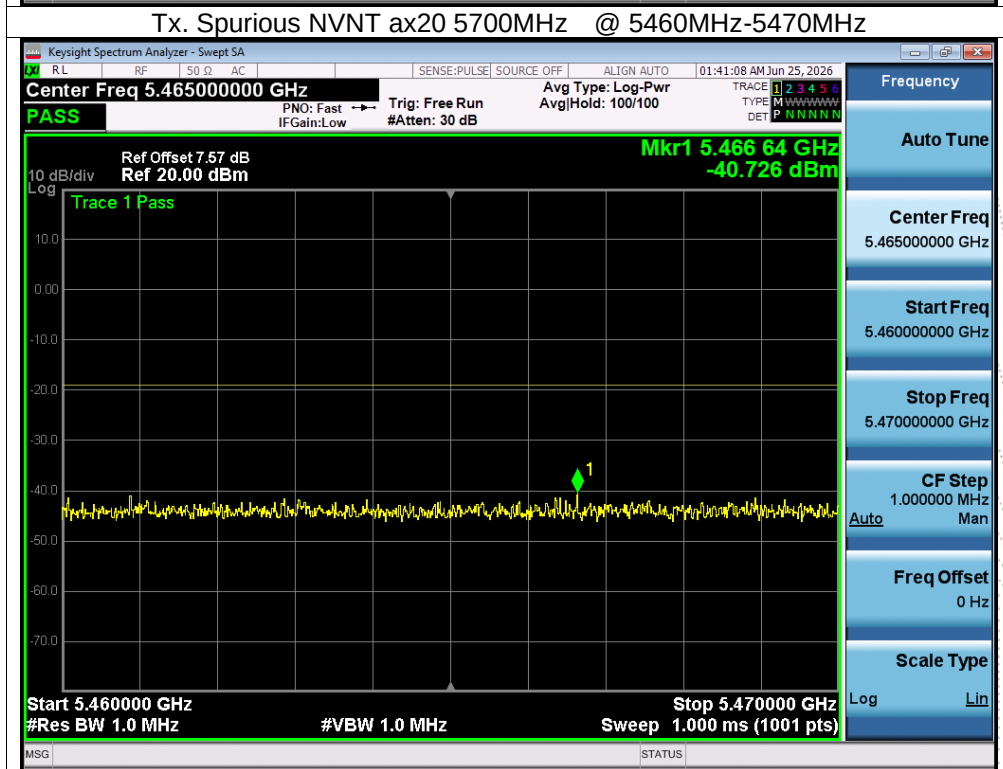
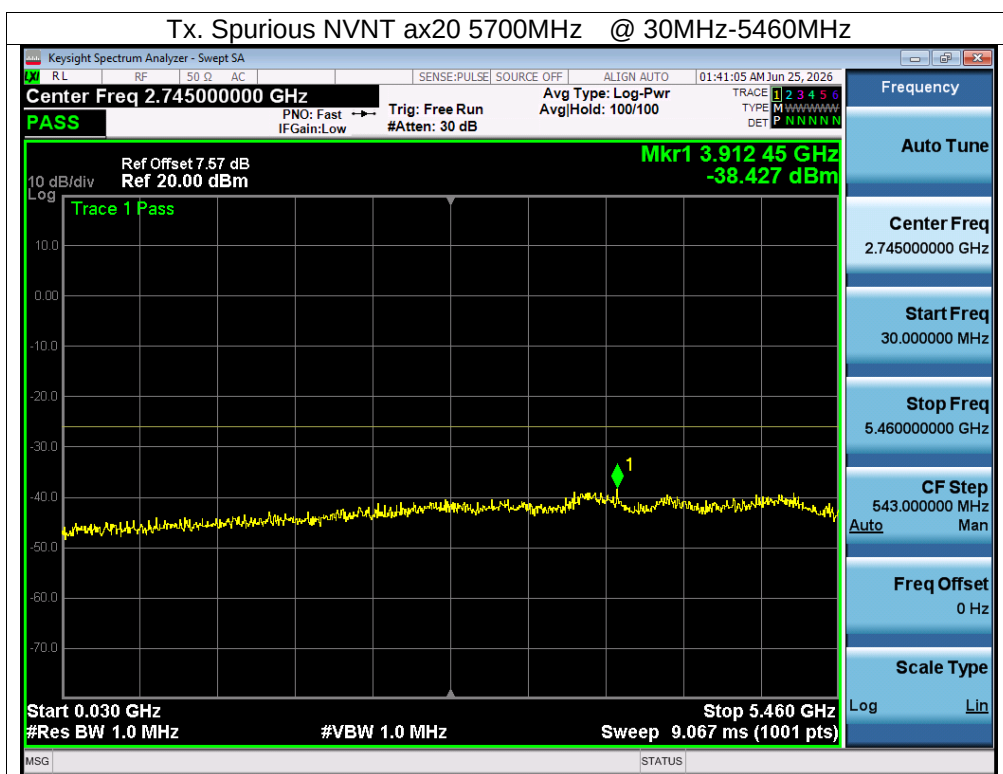


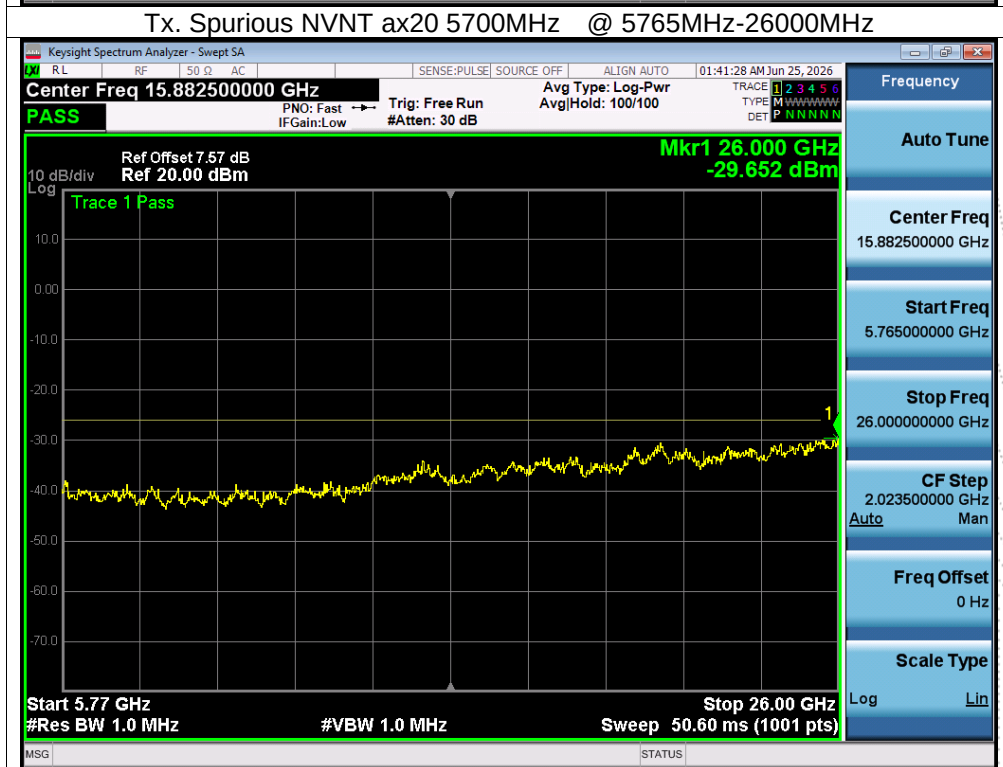
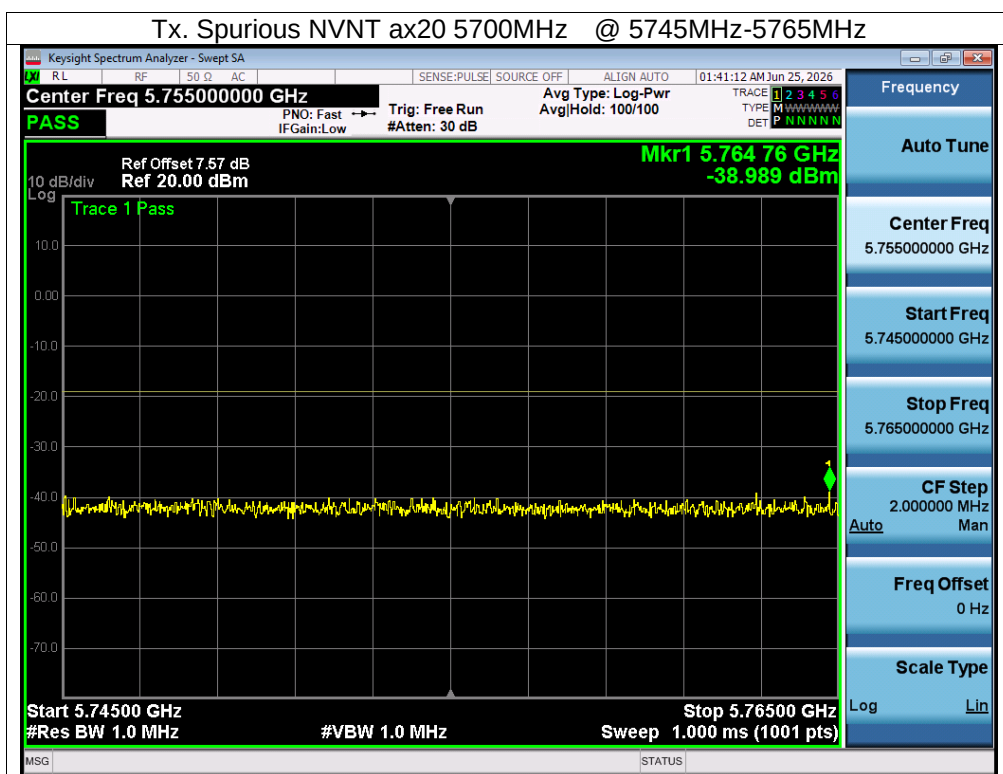


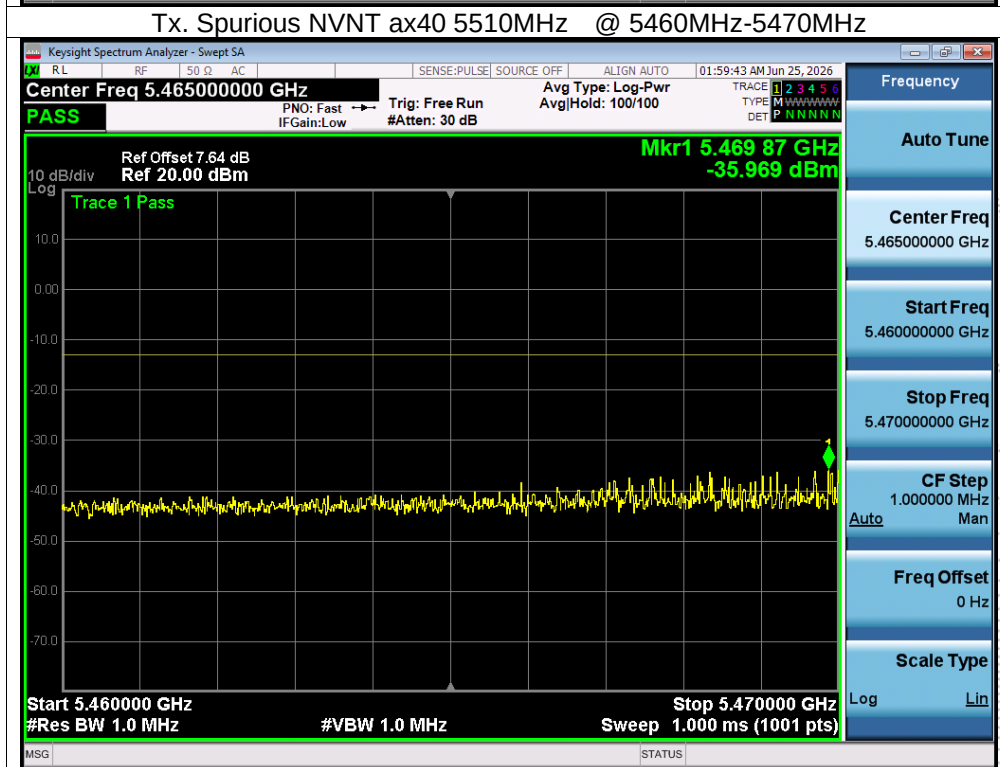
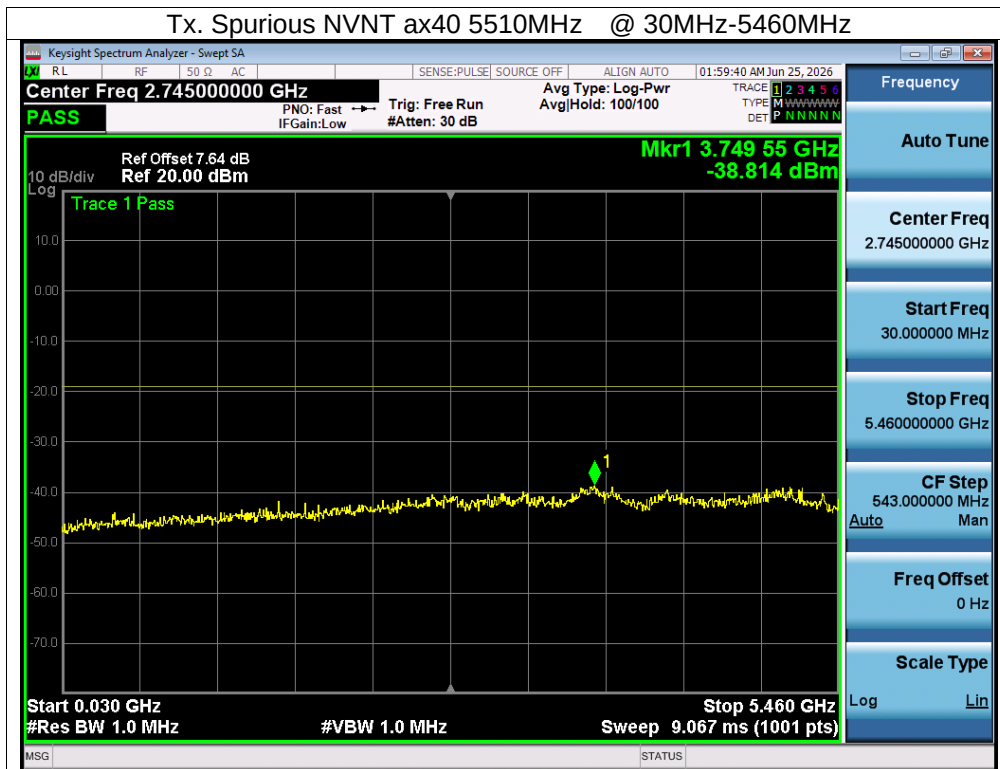


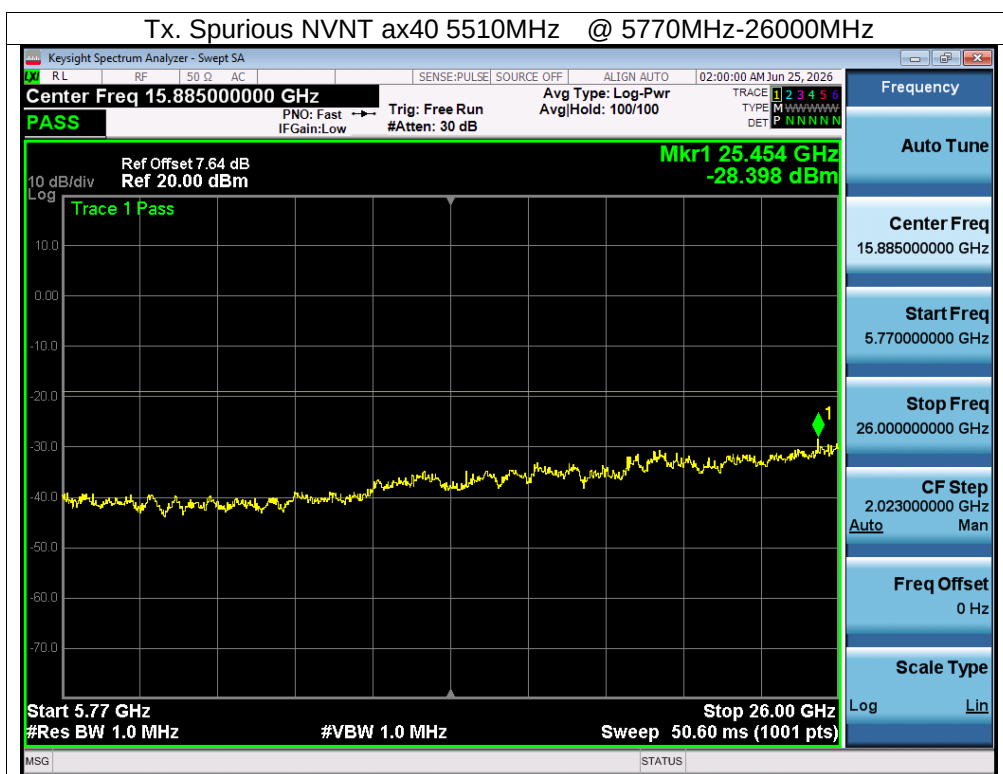


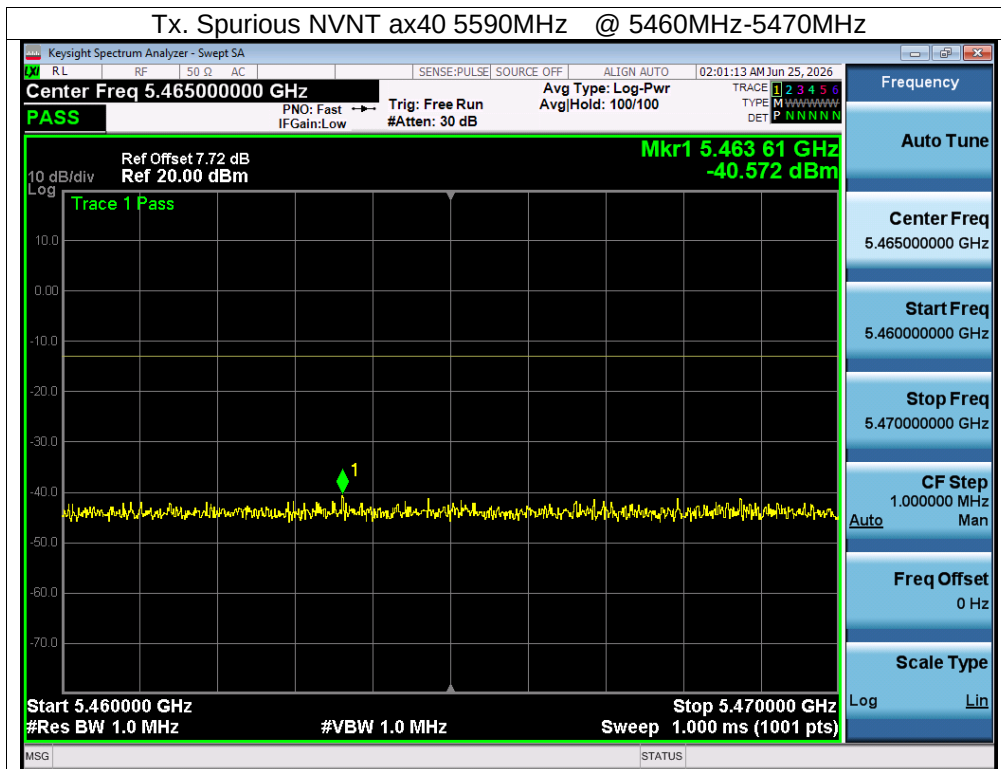


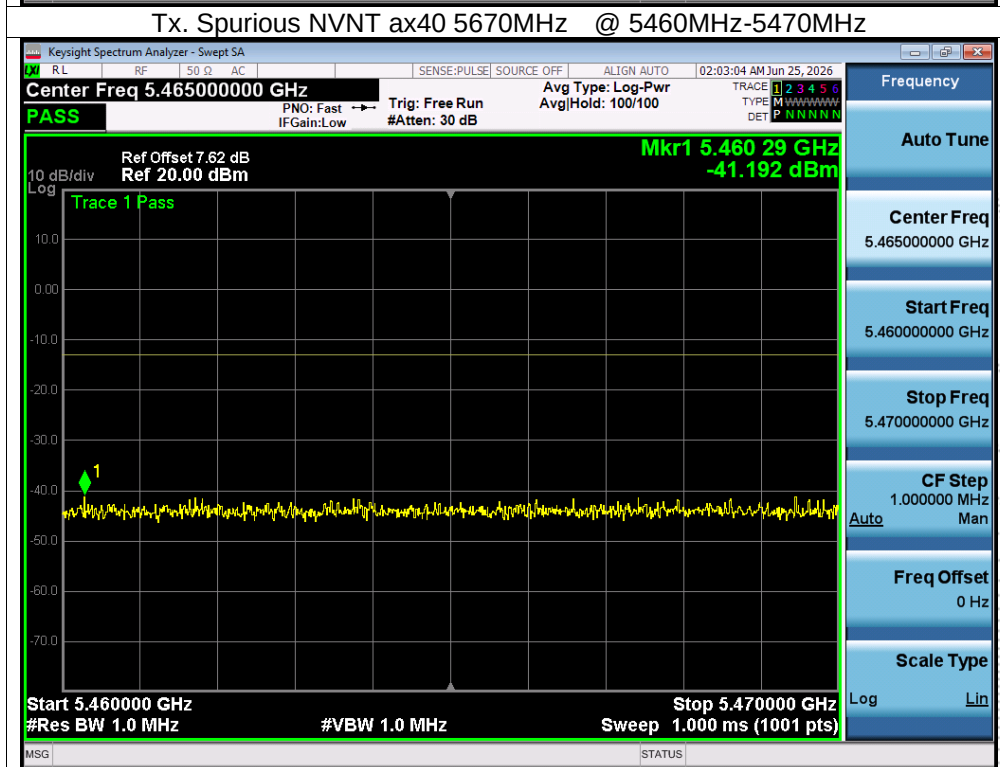
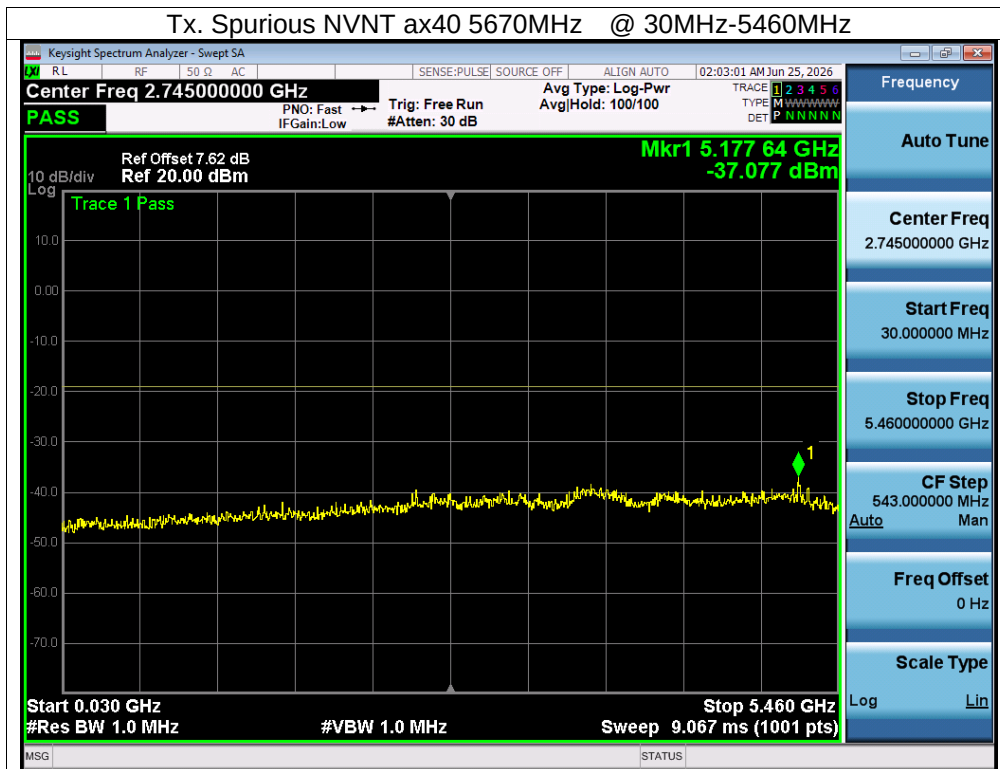


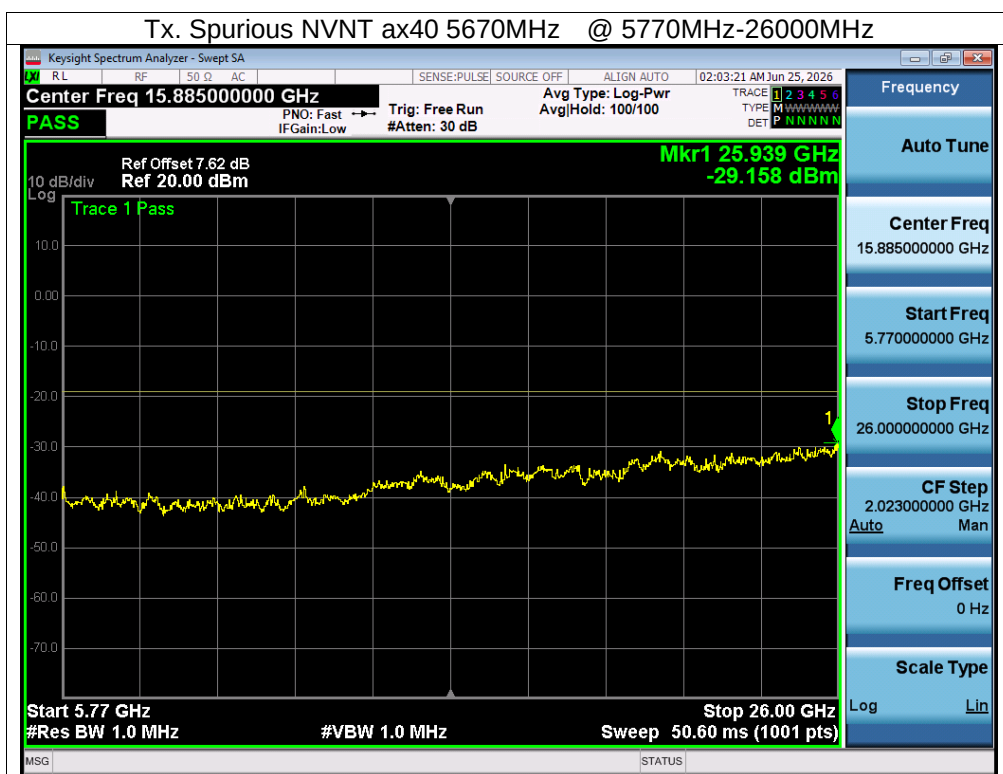


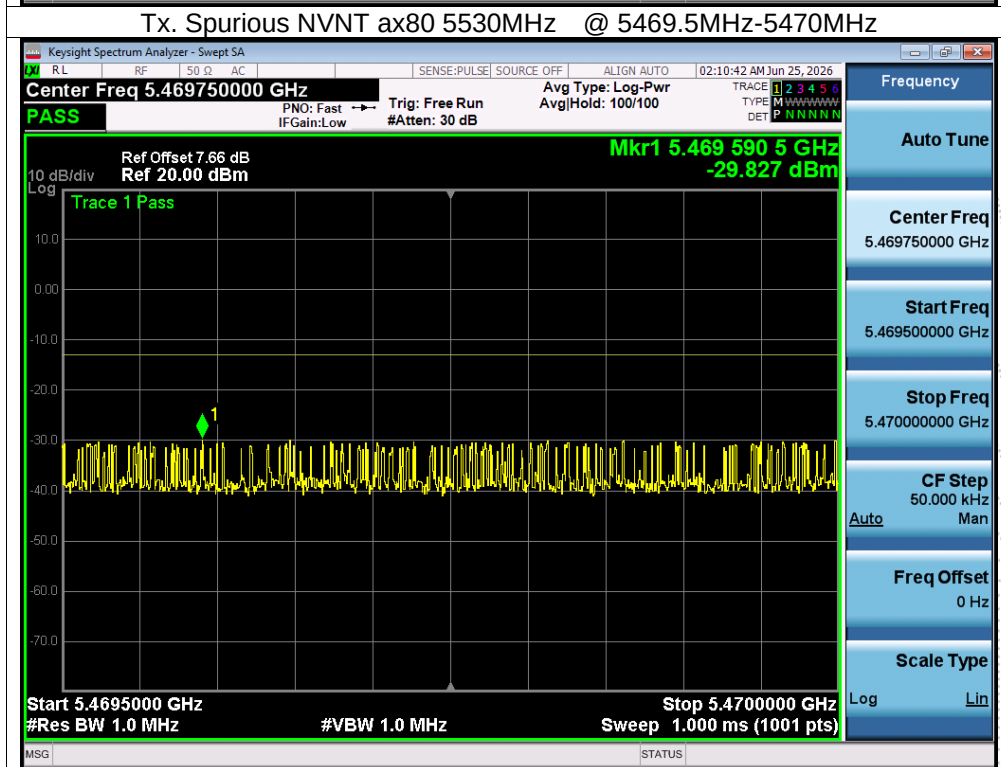
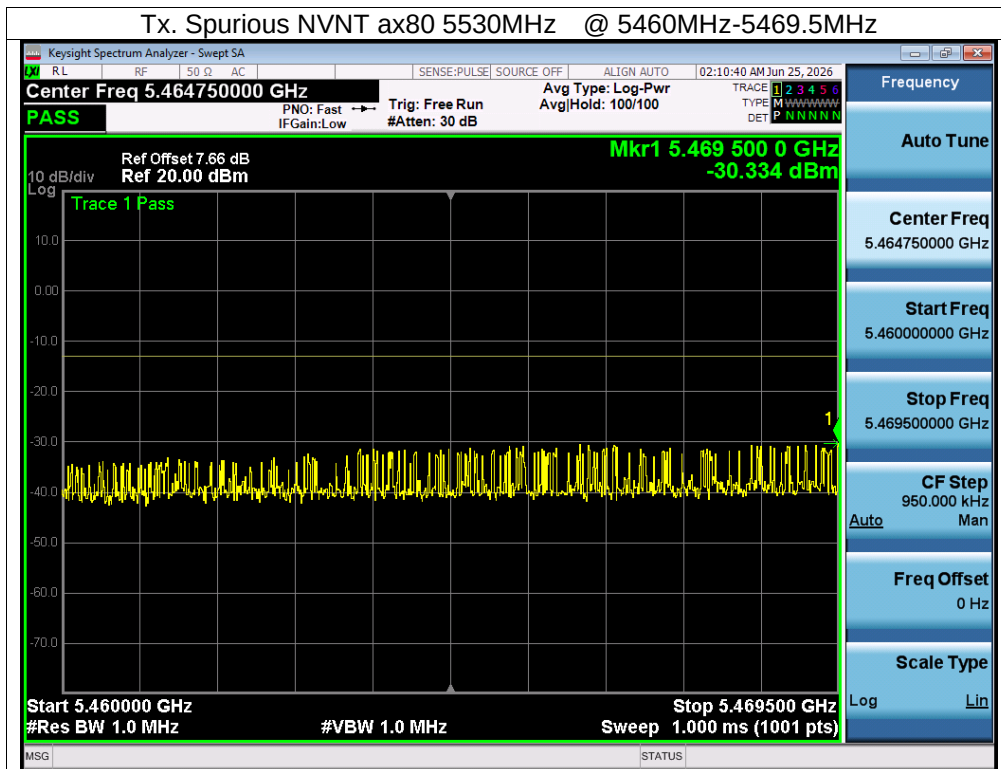


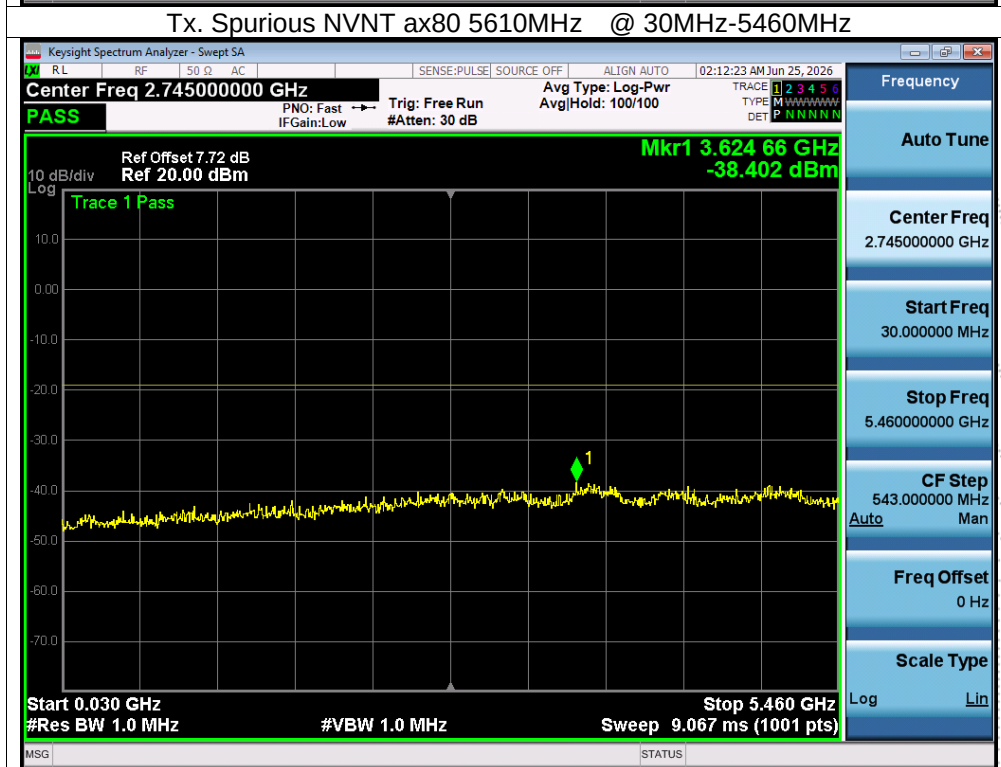
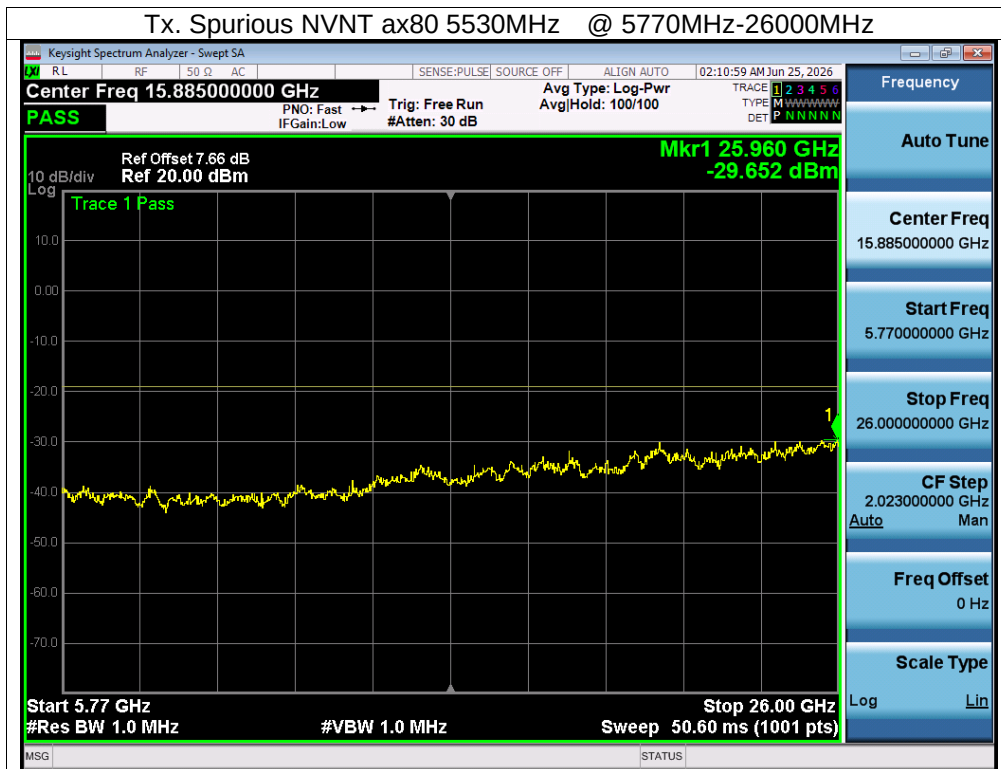


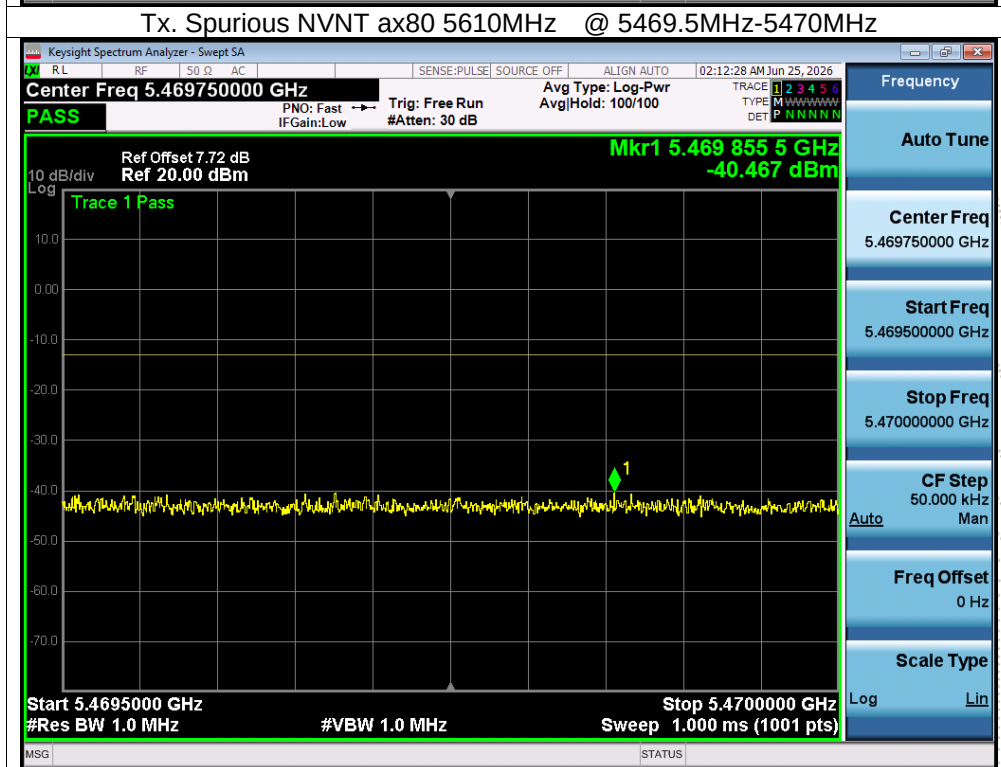
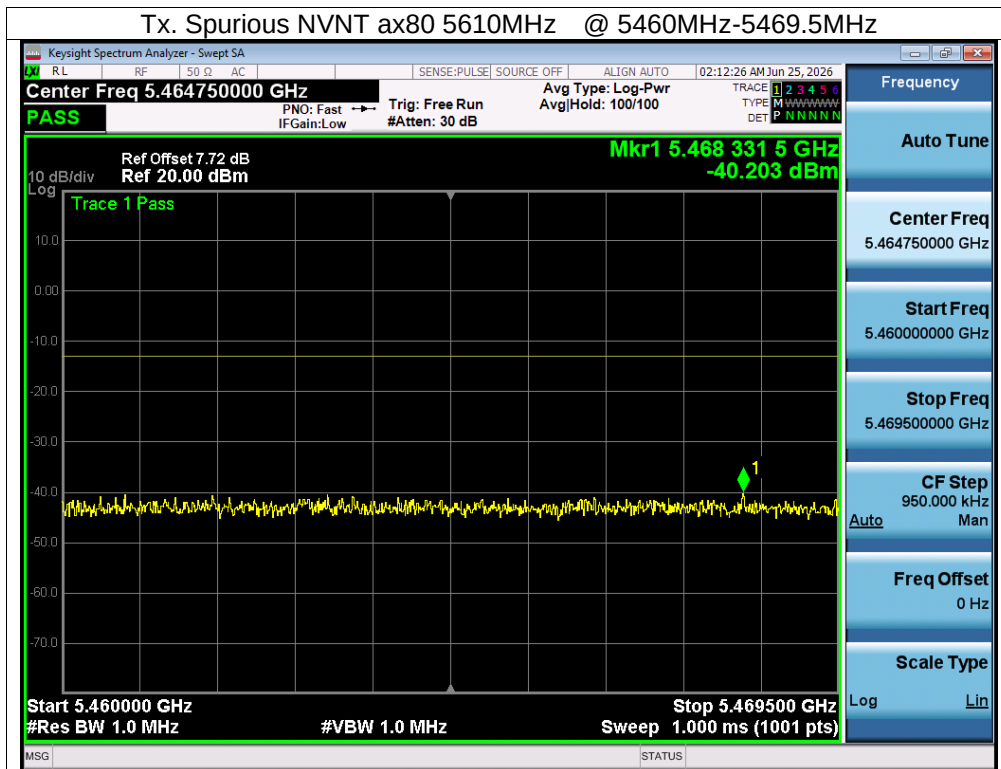


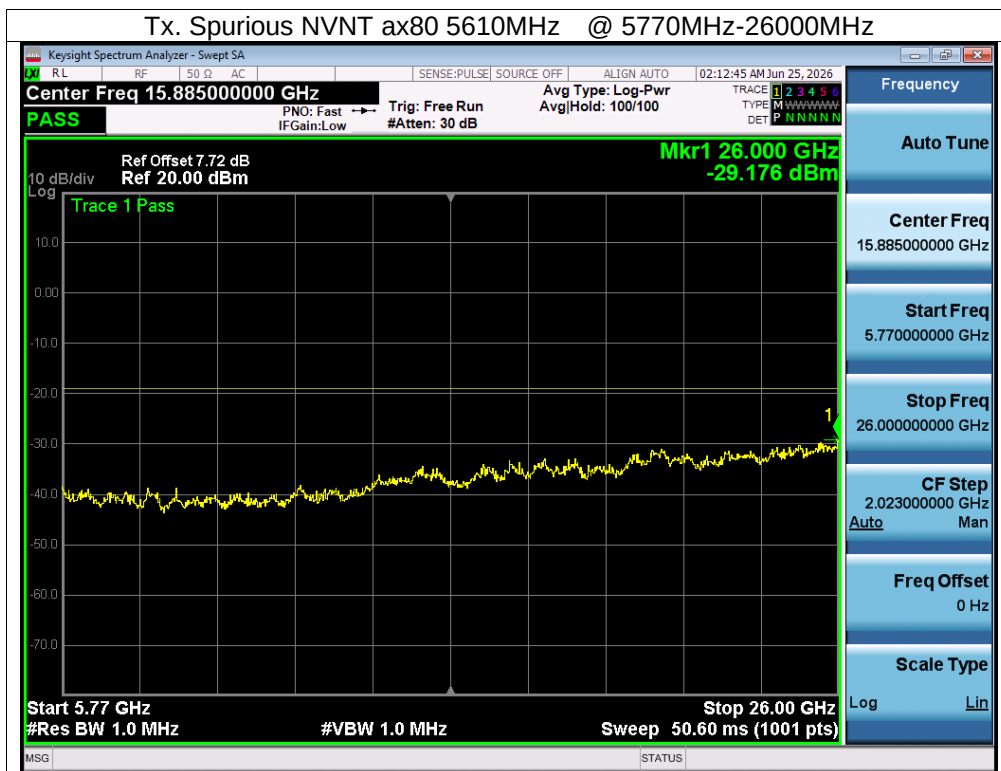






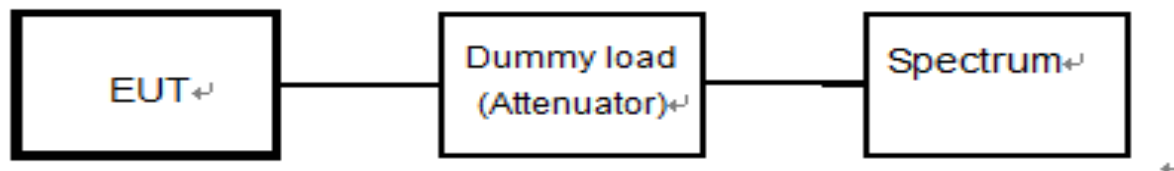






## 11. Secondary Radiated Emissions Measurement

### 11.1 Block Diagram Of Test Setup



### 11.2 Limit

| Item                  | Limits                                               |
|-----------------------|------------------------------------------------------|
| RX Spurious Emission: | $\leq 4\text{nW}$ (-54dBm) ( $f < 1\text{GHz}$ )     |
|                       | $\leq 20\text{nW}$ (-47dBm) ( $1\text{GHz} \leq f$ ) |

### 11.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

| Spectrum Parameter | Setting                                                        |
|--------------------|----------------------------------------------------------------|
| Attenuation        | Auto                                                           |
| RB                 | 100 kHz (below 1GHz emissions)<br>1 MHz (above 1GHz emissions) |
| VB                 | 100 kHz (below 1GHz emissions)<br>1 MHz (above 1GHz emissions) |
| Detector           | Peak                                                           |
| Trace              | Max Hold                                                       |
| Sweep Time         | Auto                                                           |

### 11.4 Test Procedure

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100 kHz and VB: 100 kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (0.4nW for  $f < 1\text{GHz}$ , 2nW for  $f \geq 1\text{GHz}$ ), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

## 11.5 Test Result

### Antenna A

|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

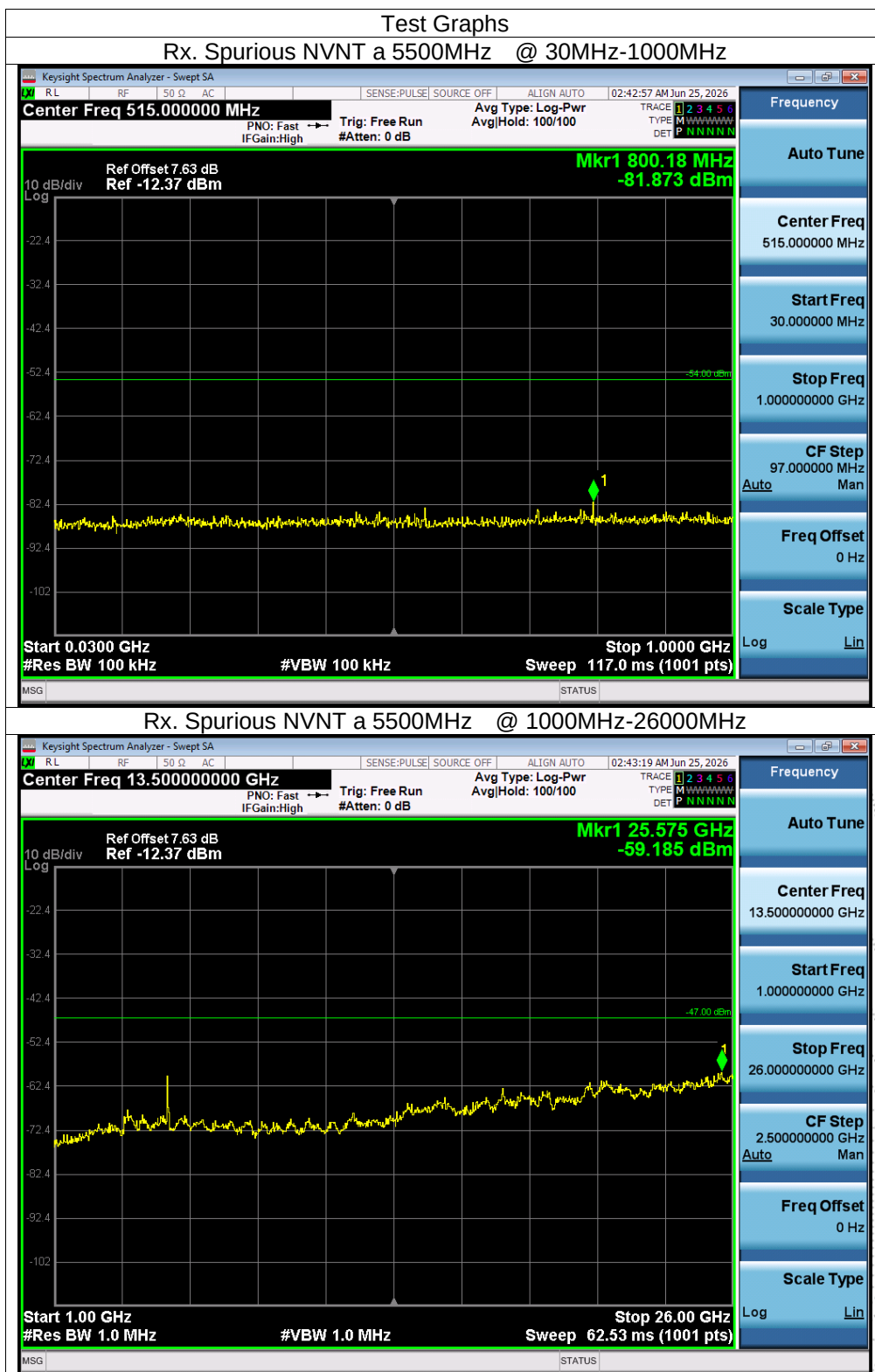
| Condition | Mode | Frequency (MHz) | Range (MHz) | Emission Frequency (MHz) | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------|--------------------------|-----------------|-------------|---------|
| NVNT      | a    | 5500            | 30-1000     | 800.18                   | -81.87          | -54         | Pass    |
| NVNT      | a    | 5500            | 1000-26000  | 25575                    | -59.19          | -47         | Pass    |
| NVNT      | a    | 5600            | 30-1000     | 800.18                   | -81.07          | -54         | Pass    |
| NVNT      | a    | 5600            | 1000-26000  | 26000                    | -59.31          | -47         | Pass    |
| NVNT      | a    | 5700            | 30-1000     | 800.18                   | -82.45          | -54         | Pass    |
| NVNT      | a    | 5700            | 1000-26000  | 25925                    | -59.16          | -47         | Pass    |
| NVNT      | n40  | 5510            | 30-1000     | 800.18                   | -82.38          | -54         | Pass    |
| NVNT      | n40  | 5510            | 1000-26000  | 25550                    | -59.53          | -47         | Pass    |
| NVNT      | n40  | 5590            | 30-1000     | 800.18                   | -82.39          | -54         | Pass    |
| NVNT      | n40  | 5590            | 1000-26000  | 25950                    | -59.42          | -47         | Pass    |
| NVNT      | n40  | 5670            | 30-1000     | 800.18                   | -81.92          | -54         | Pass    |
| NVNT      | n40  | 5670            | 1000-26000  | 25575                    | -59.36          | -47         | Pass    |
| NVNT      | ax80 | 5530            | 30-1000     | 800.18                   | -82.39          | -54         | Pass    |
| NVNT      | ax80 | 5530            | 1000-26000  | 3500                     | <b>-49.3</b>    | -47         | Pass    |
| NVNT      | ax80 | 5610            | 30-1000     | 800.18                   | -82.62          | -54         | Pass    |
| NVNT      | ax80 | 5610            | 1000-26000  | 25500                    | -58.88          | -47         | Pass    |

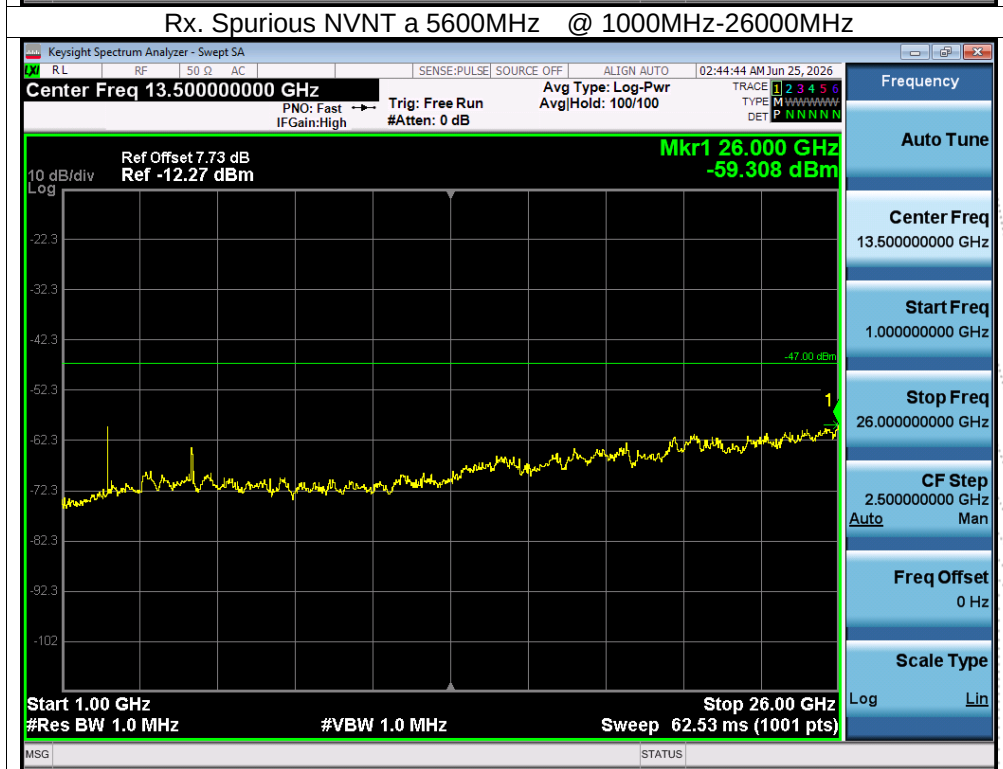
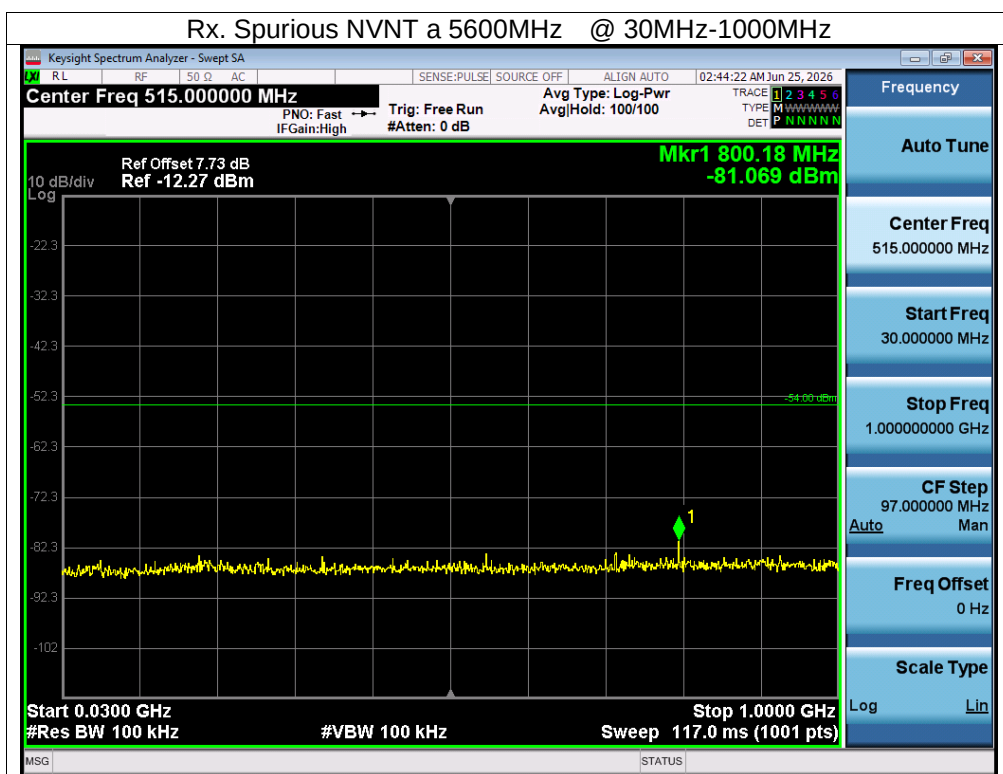
### Antenna B

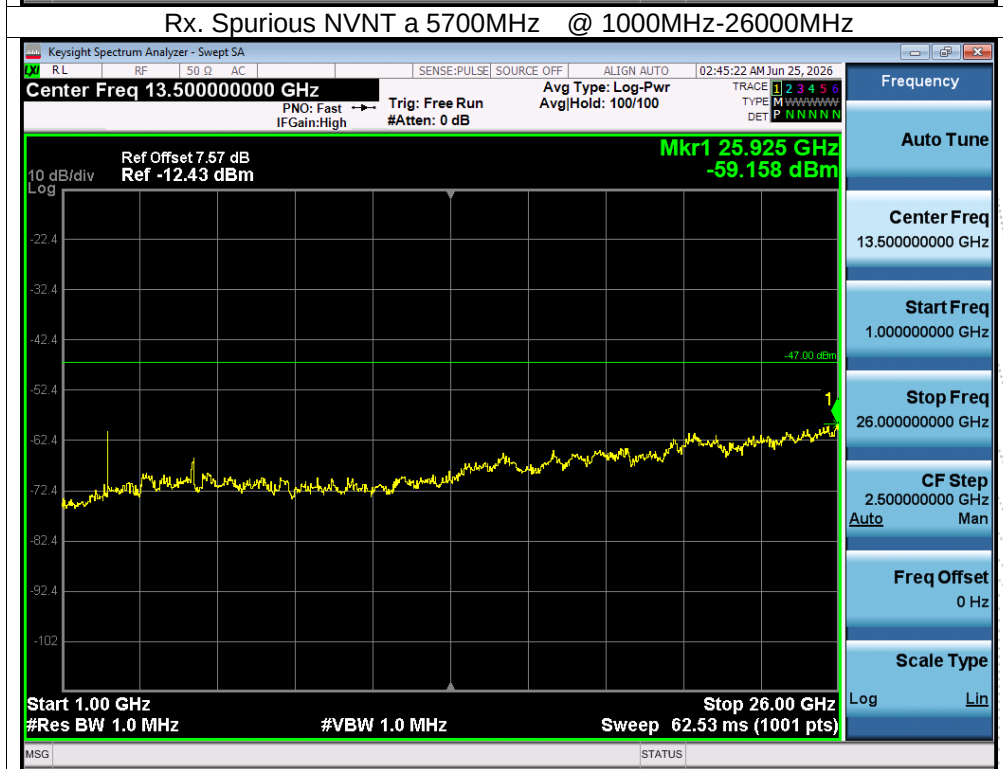
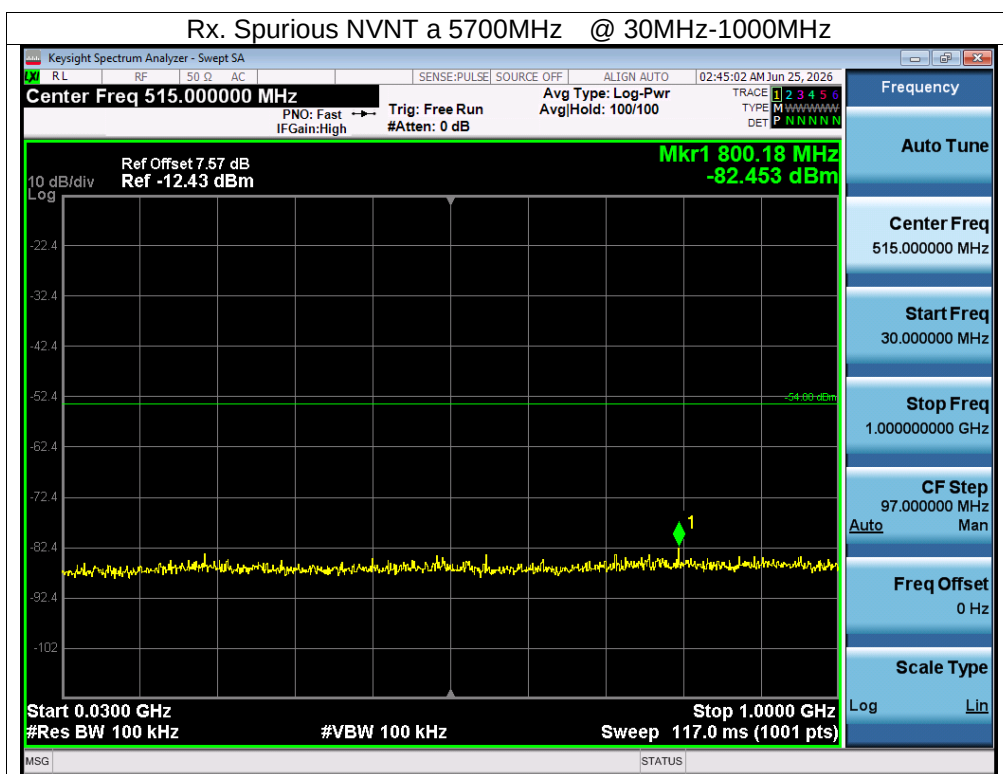
| Condition | Mode | Frequency (MHz) | Range (MHz) | Emission Frequency (MHz) | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------|--------------------------|-----------------|-------------|---------|
| NVNT      | a    | 5500            | 30-1000     | 720.64                   | -81.21          | -54         | Pass    |
| NVNT      | a    | 5500            | 1000-26000  | 25525                    | -59.01          | -47         | Pass    |
| NVNT      | a    | 5600            | 30-1000     | 433.52                   | -81.36          | -54         | Pass    |
| NVNT      | a    | 5600            | 1000-26000  | 25925                    | -59.07          | -47         | Pass    |
| NVNT      | a    | 5700            | 30-1000     | 800.18                   | -81.22          | -54         | Pass    |
| NVNT      | a    | 5700            | 1000-26000  | 25950                    | -59.24          | -47         | Pass    |
| NVNT      | n40  | 5510            | 30-1000     | 720.64                   | -81.58          | -54         | Pass    |
| NVNT      | n40  | 5510            | 1000-26000  | 26000                    | -58.7           | -47         | Pass    |
| NVNT      | n40  | 5590            | 30-1000     | 800.18                   | -81.5           | -54         | Pass    |
| NVNT      | n40  | 5590            | 1000-26000  | 2475                     | -59             | -47         | Pass    |
| NVNT      | n40  | 5670            | 30-1000     | 721.61                   | -79.66          | -54         | Pass    |
| NVNT      | n40  | 5670            | 1000-26000  | 25950                    | -58.91          | -47         | Pass    |
| NVNT      | ax80 | 5530            | 30-1000     | 800.18                   | -81.69          | -54         | Pass    |
| NVNT      | ax80 | 5530            | 1000-26000  | 25975                    | <b>-58.02</b>   | -47         | Pass    |
| NVNT      | ax80 | 5610            | 30-1000     | 721.61                   | -81.44          | -54         | Pass    |
| NVNT      | ax80 | 5610            | 1000-26000  | 26000                    | -58.9           | -47         | Pass    |

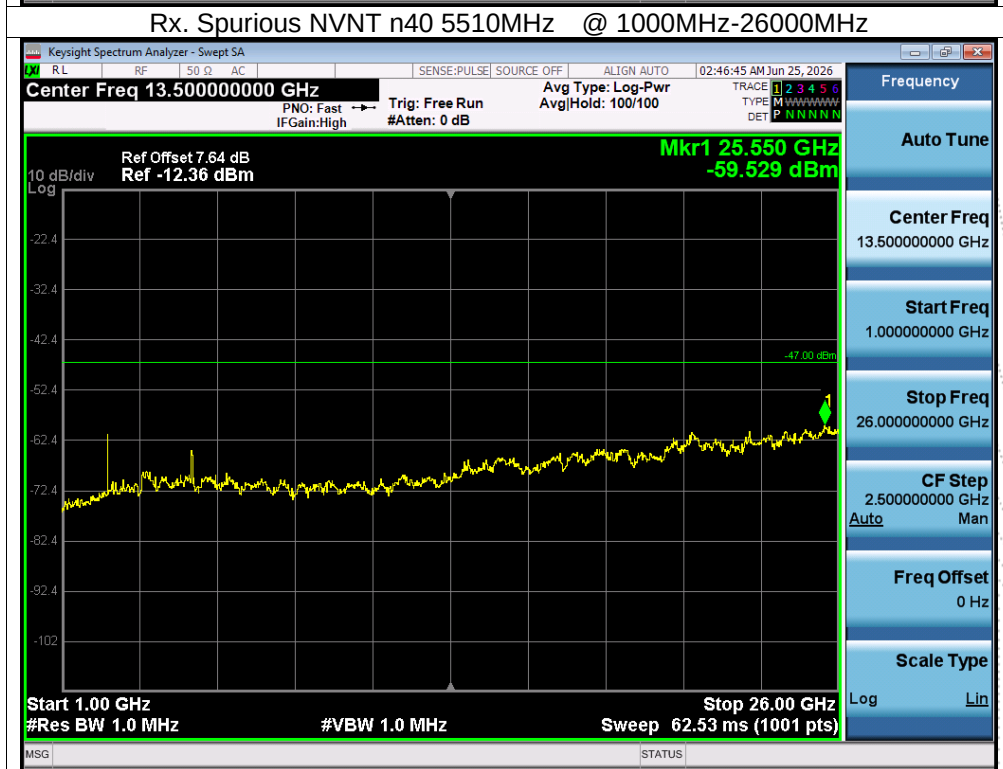
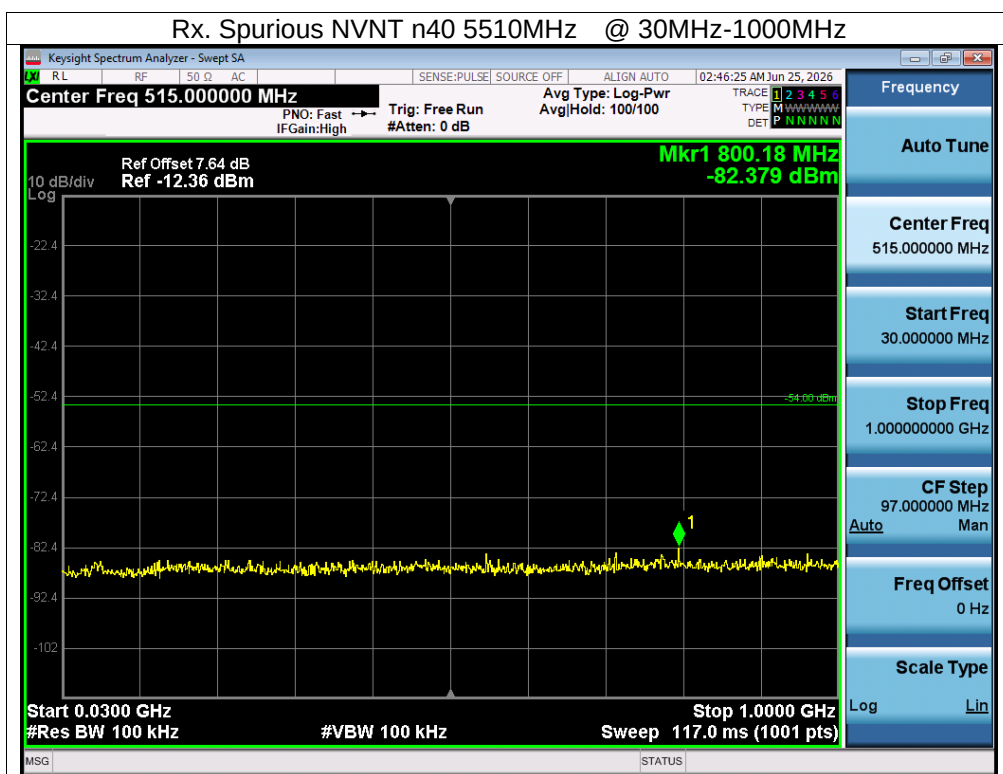
All the modes were tested and only recorded the worst mode in the report.

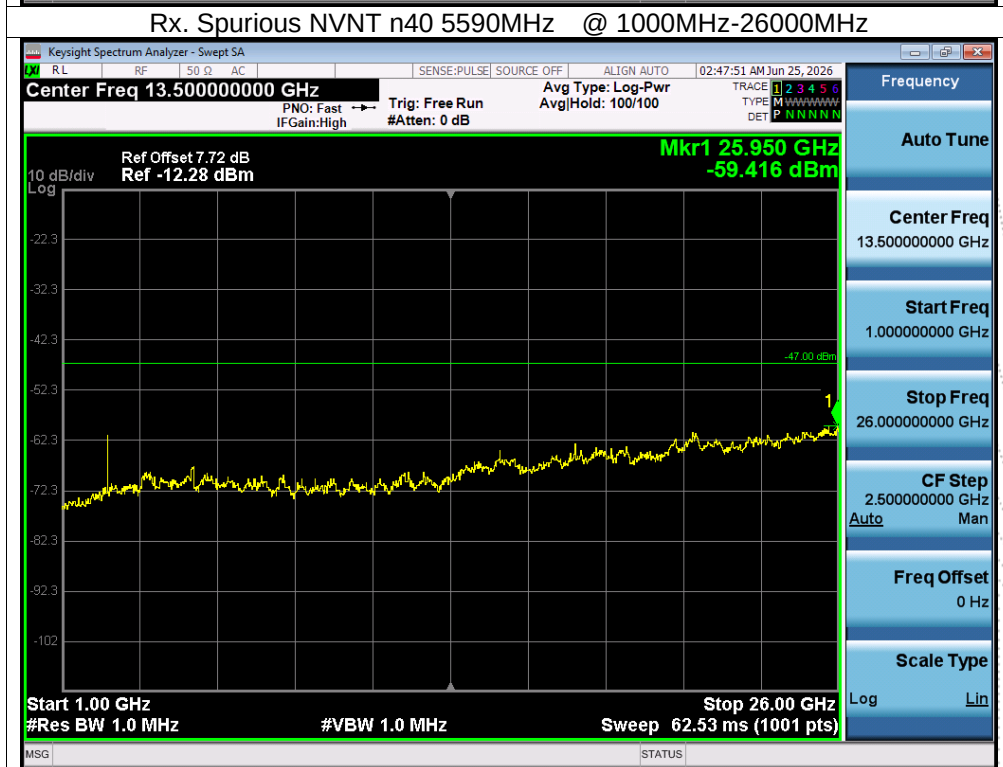
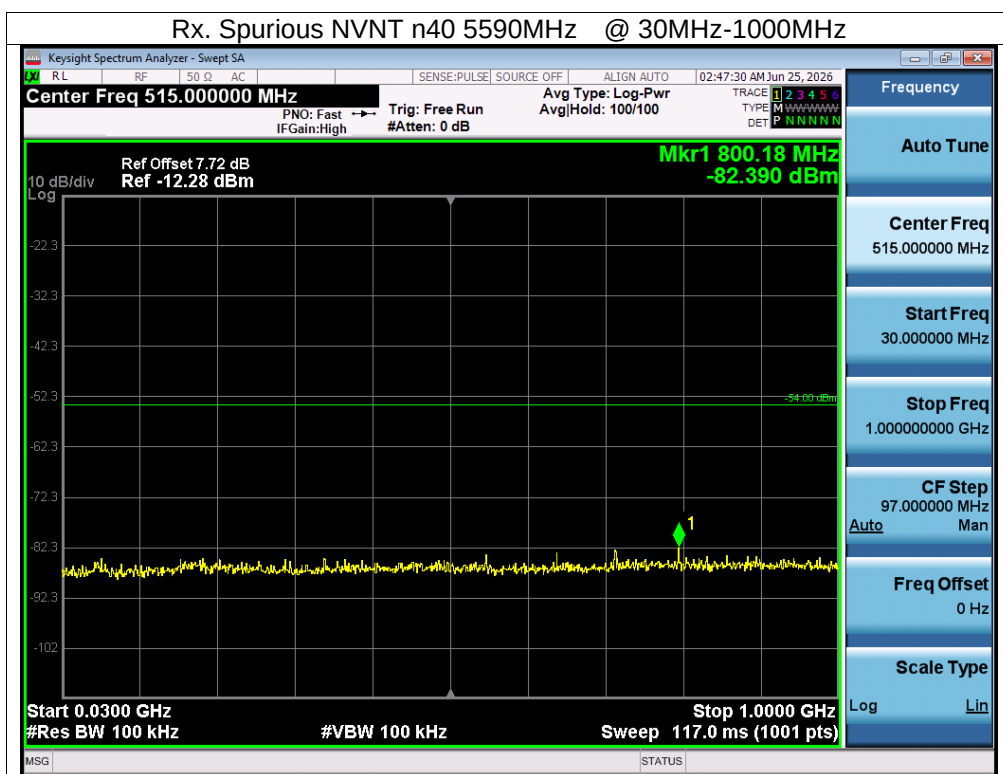
The worst test channel of all channels was showed as the follow: only shown Antenna A Plot.

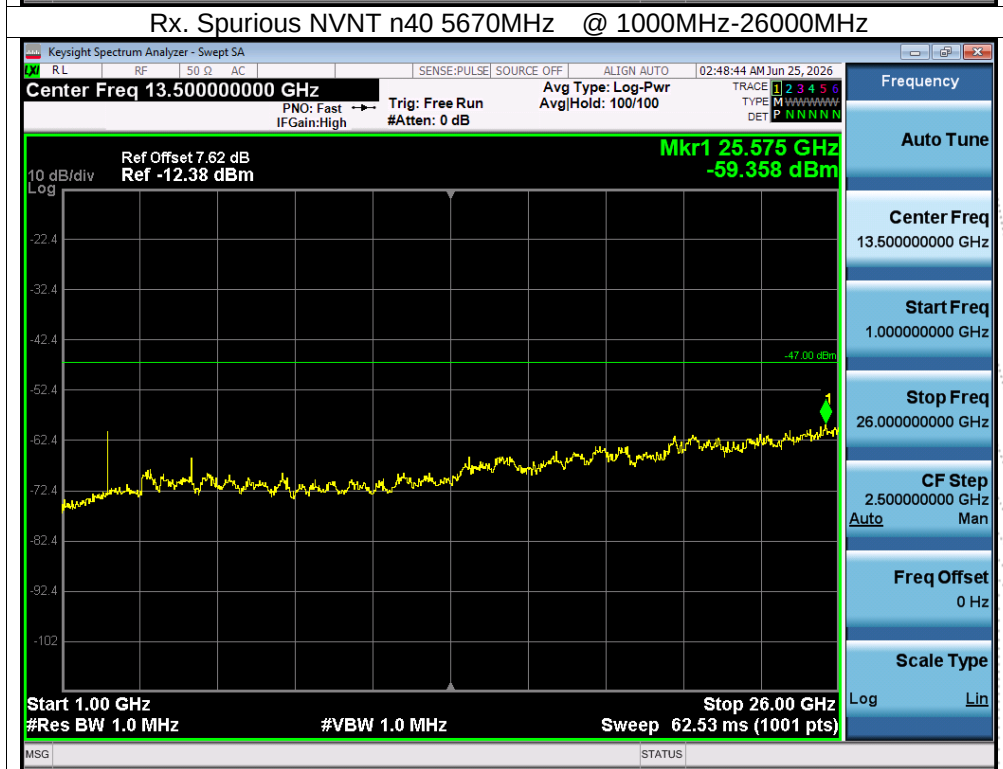
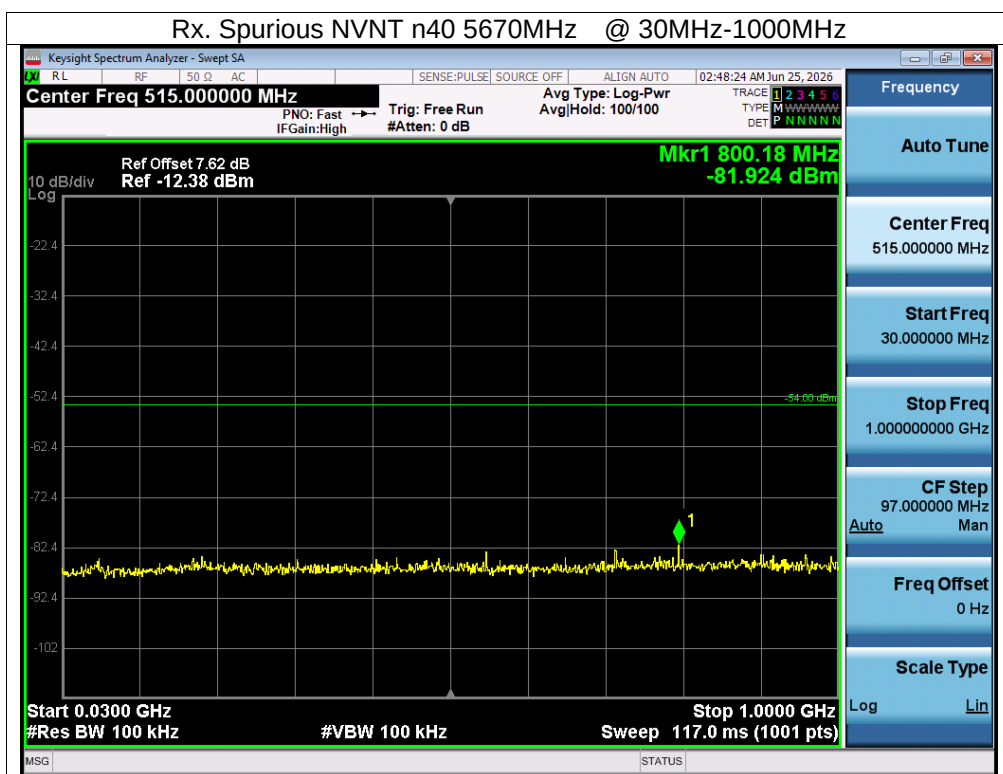


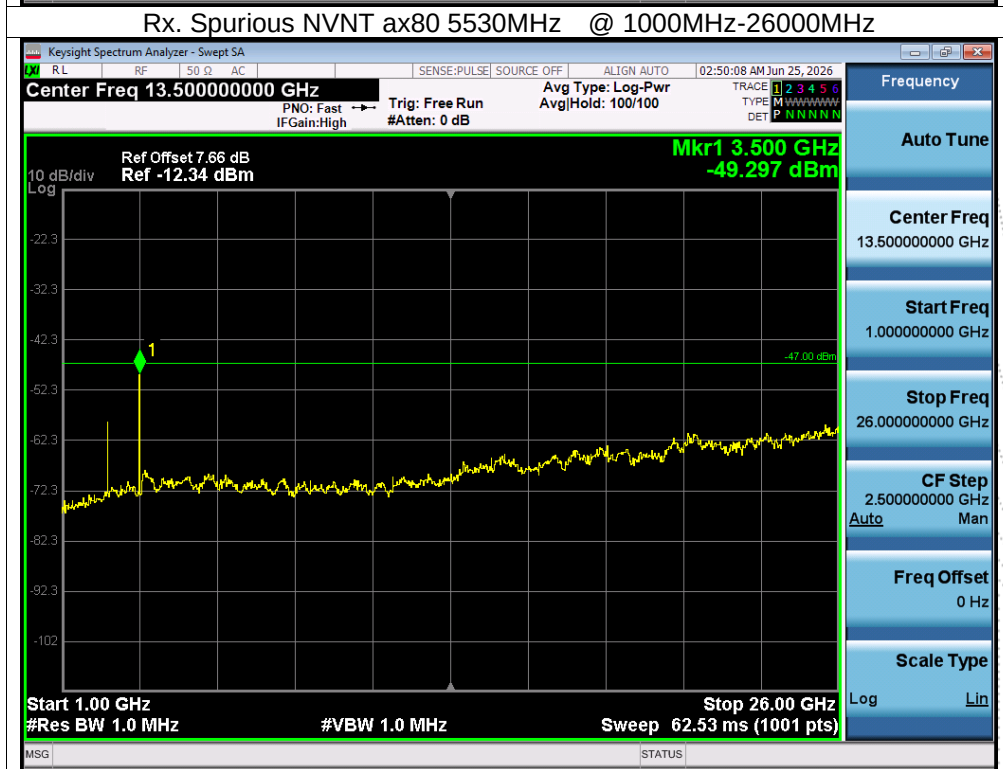
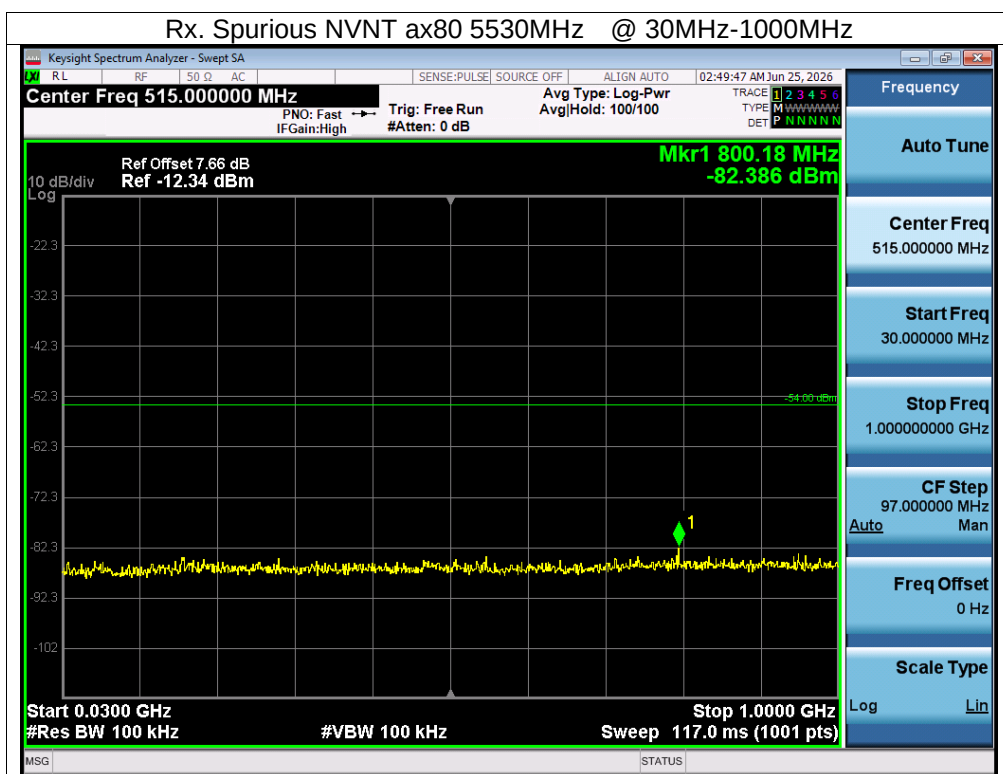


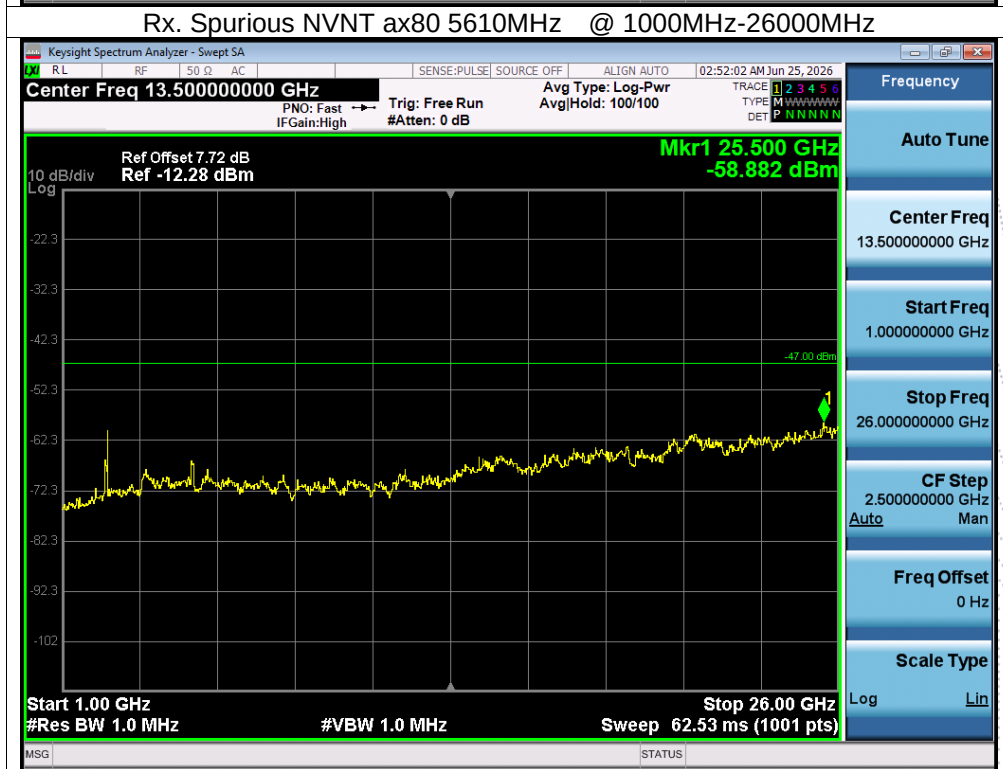
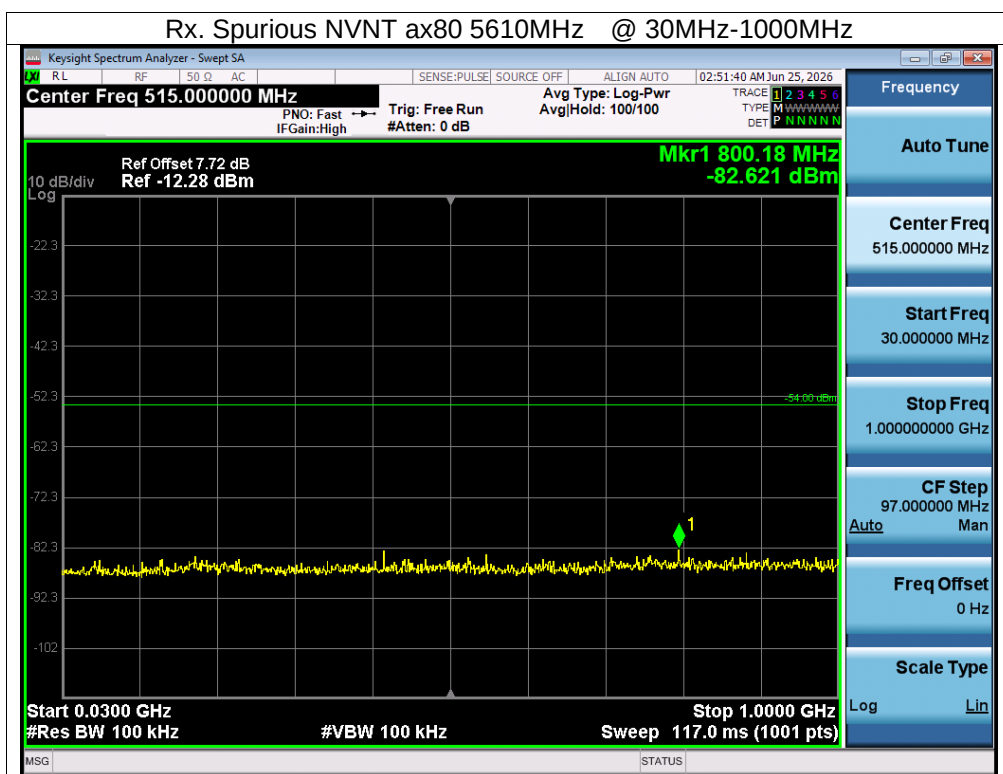






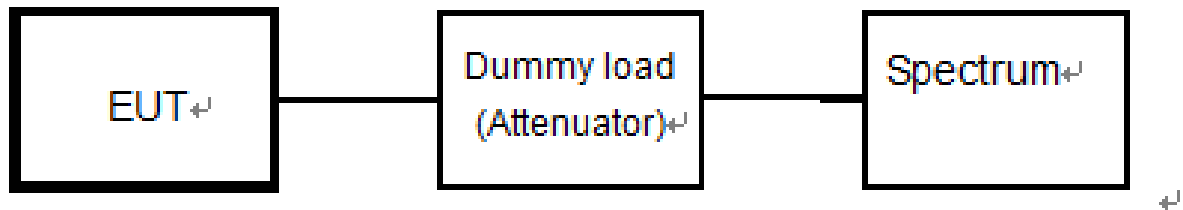






## 12. Transmitter Burst Length Measurement

### 12.1 Block Diagram Of Test Setup



### 12.2 Limit

| Item                     | Limits    |
|--------------------------|-----------|
| Transmitter Burst Length | ≤8msecond |

### 12.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

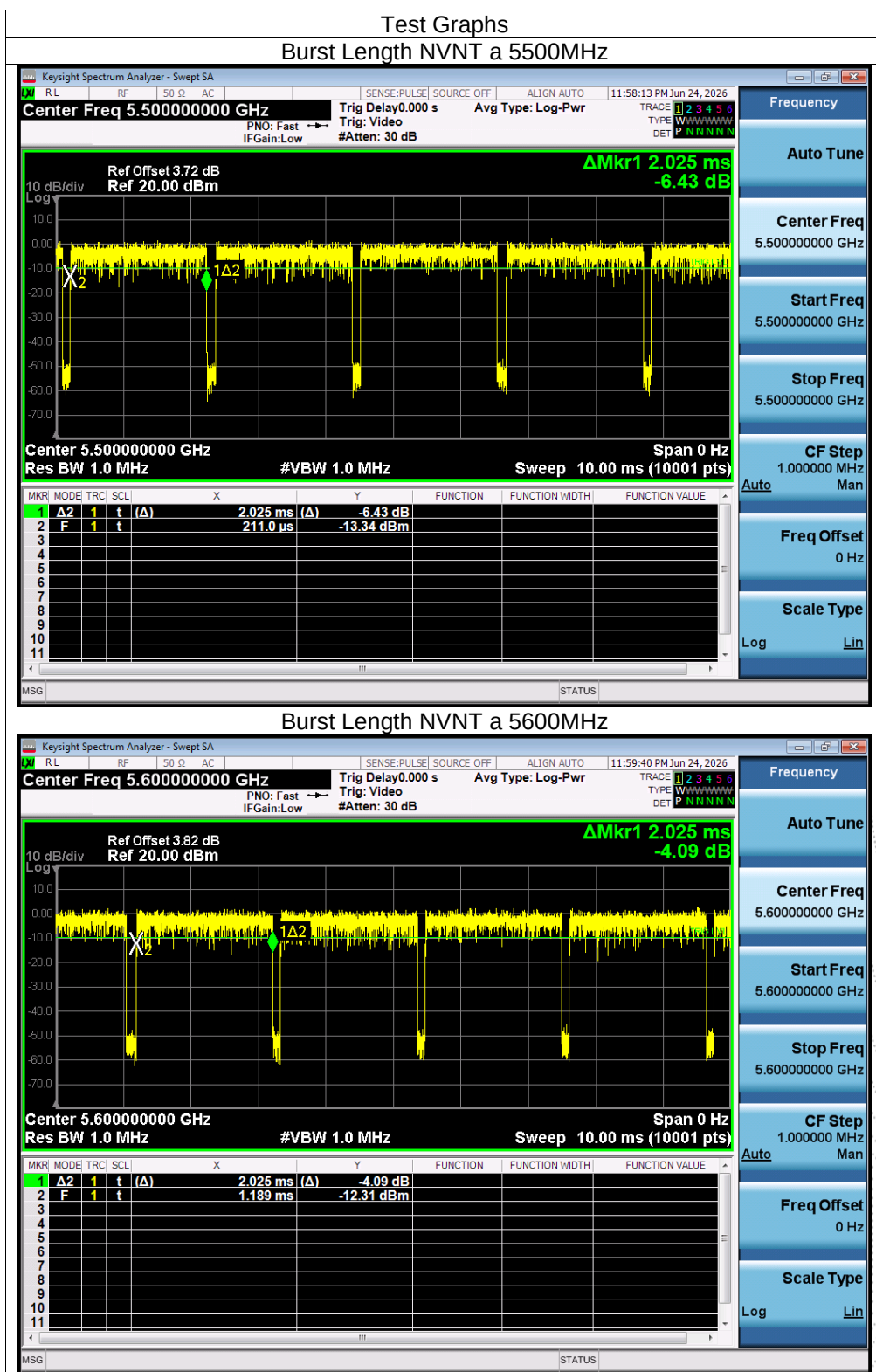
| Spectrum Parameter  | Setting                                   |
|---------------------|-------------------------------------------|
| Center frequency    | Test frequency                            |
| Sweep bandwidth     | 0Hz                                       |
| Resoluble bandwidth | 1MHz                                      |
| Video bandwidth     | equivalent to resolvable bandwidth        |
| Sweep Time          | Minimum time to assure measuring accuracy |
| Y-axis scale        | 10dB/Div.                                 |
| Detection mode      | Positive peak                             |
| Trigger condition   | Rising up of level                        |

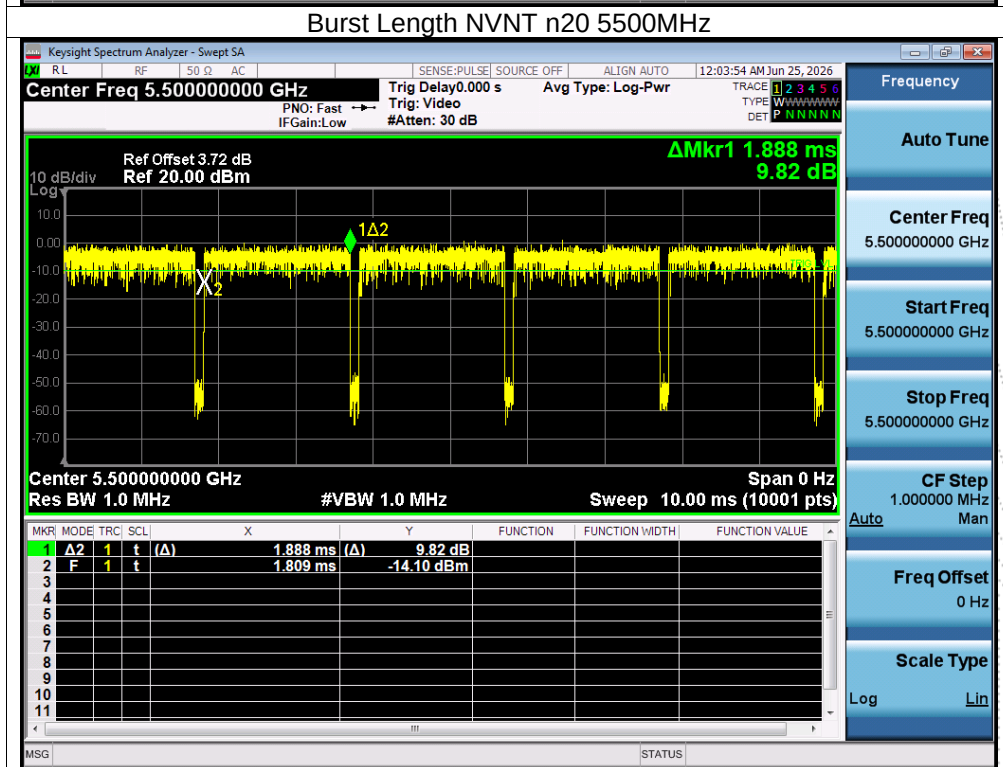
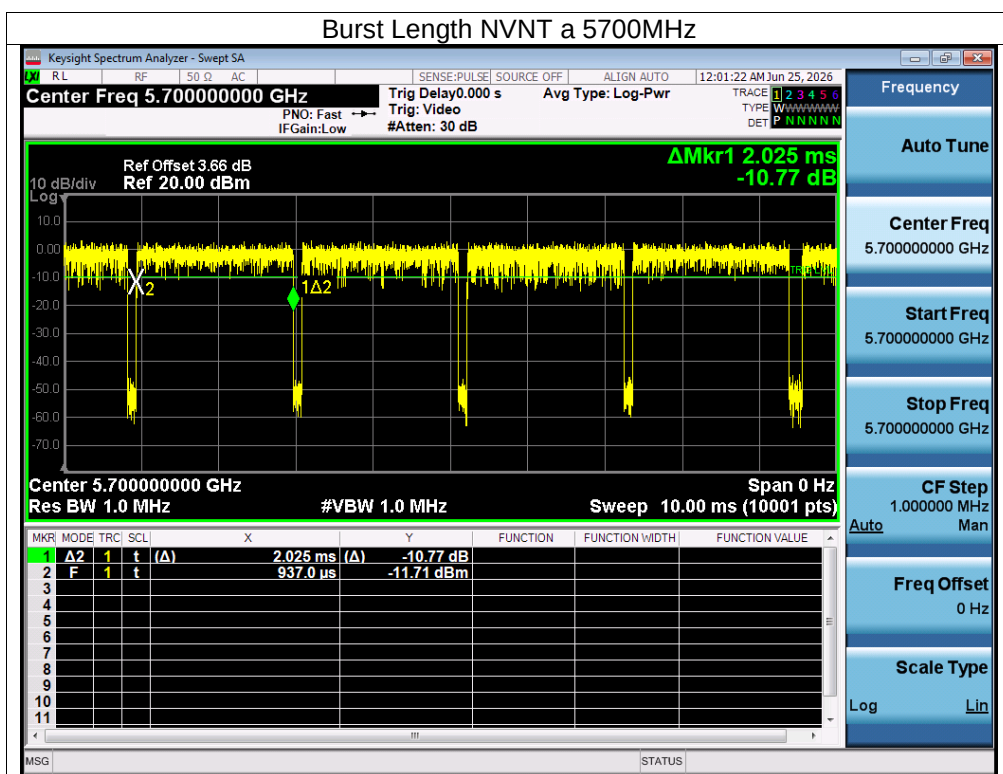
## 12.4 Test Result

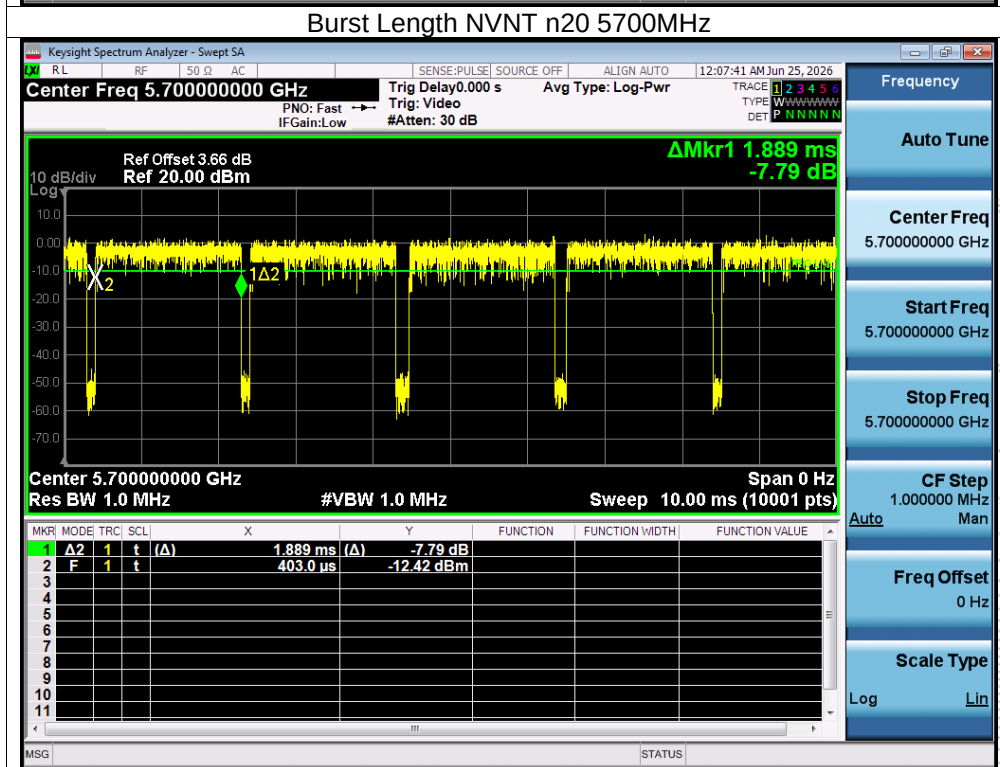
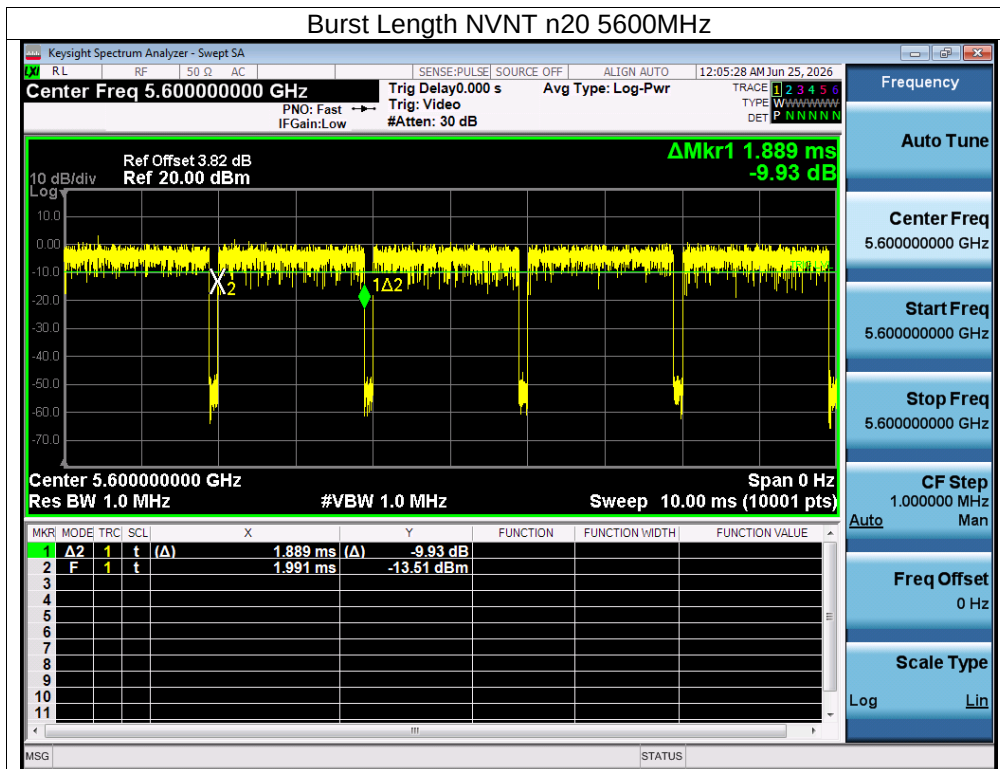
|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

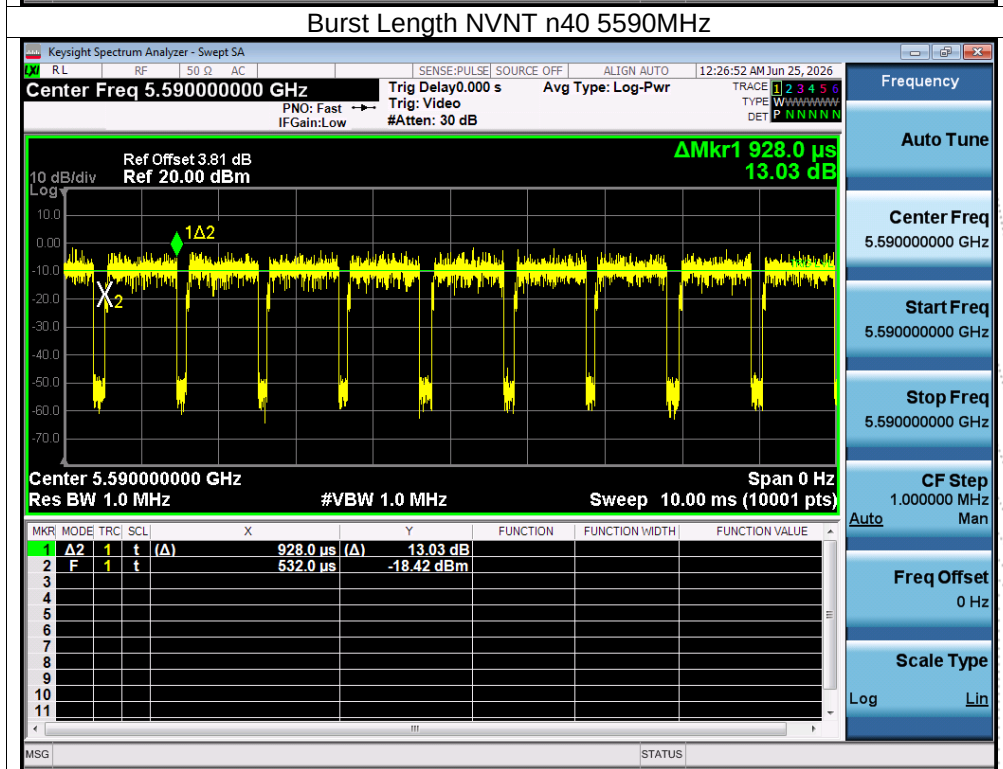
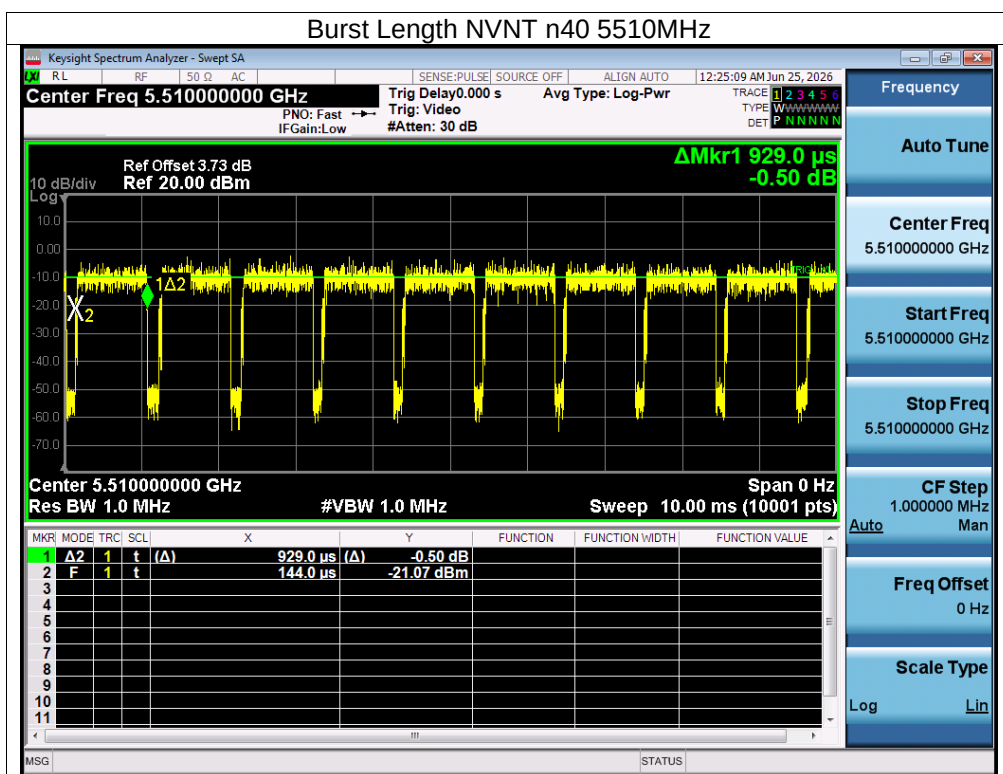
| Condition | Mode | Antenna | Burst Length (ms) |              |       | Verdict |
|-----------|------|---------|-------------------|--------------|-------|---------|
|           |      |         | ANT A             | ANT B        | Limit |         |
| NVNT      | a    | 5500    | <b>2.025</b>      | <b>2.025</b> | 8     | Pass    |
| NVNT      | a    | 5600    | 2.025             | 2.025        | 8     | Pass    |
| NVNT      | a    | 5700    | 2.025             | 2.025        | 8     | Pass    |
| NVNT      | n20  | 5500    | 1.888             | 1.889        | 8     | Pass    |
| NVNT      | n20  | 5600    | 1.889             | 1.889        | 8     | Pass    |
| NVNT      | n20  | 5700    | 1.889             | 1.889        | 8     | Pass    |
| NVNT      | n40  | 5510    | 0.929             | 0.913        | 8     | Pass    |
| NVNT      | n40  | 5590    | 0.928             | 0.912        | 8     | Pass    |
| NVNT      | n40  | 5670    | 0.929             | 0.912        | 8     | Pass    |
| NVNT      | ac20 | 5500    | 1.896             | 1.897        | 8     | Pass    |
| NVNT      | ac20 | 5600    | 1.897             | 1.897        | 8     | Pass    |
| NVNT      | ac20 | 5700    | 1.897             | 1.897        | 8     | Pass    |
| NVNT      | ac40 | 5510    | 0.936             | 0            | 8     | Pass    |
| NVNT      | ac40 | 5590    | 0.936             | 0.921        | 8     | Pass    |
| NVNT      | ac40 | 5670    | 0.937             | 0.92         | 8     | Pass    |
| NVNT      | ac80 | 5530    | 0.445             | 0.429        | 8     | Pass    |
| NVNT      | ac80 | 5610    | 0.445             | 0.445        | 8     | Pass    |
| NVNT      | ax20 | 5500    | 1.457             | 1.457        | 8     | Pass    |
| NVNT      | ax20 | 5600    | 1.457             | 1.457        | 8     | Pass    |
| NVNT      | ax20 | 5700    | 1.457             | 1.458        | 8     | Pass    |
| NVNT      | ax40 | 5510    | 0.756             | 0.739        | 8     | Pass    |
| NVNT      | ax40 | 5590    | 0.756             | 0            | 8     | Pass    |
| NVNT      | ax40 | 5670    | 0.756             | 0.74         | 8     | Pass    |
| NVNT      | ax80 | 5530    | 0.385             | 0            | 8     | Pass    |
| NVNT      | ax80 | 5610    | 0.385             | 0.385        | 8     | Pass    |

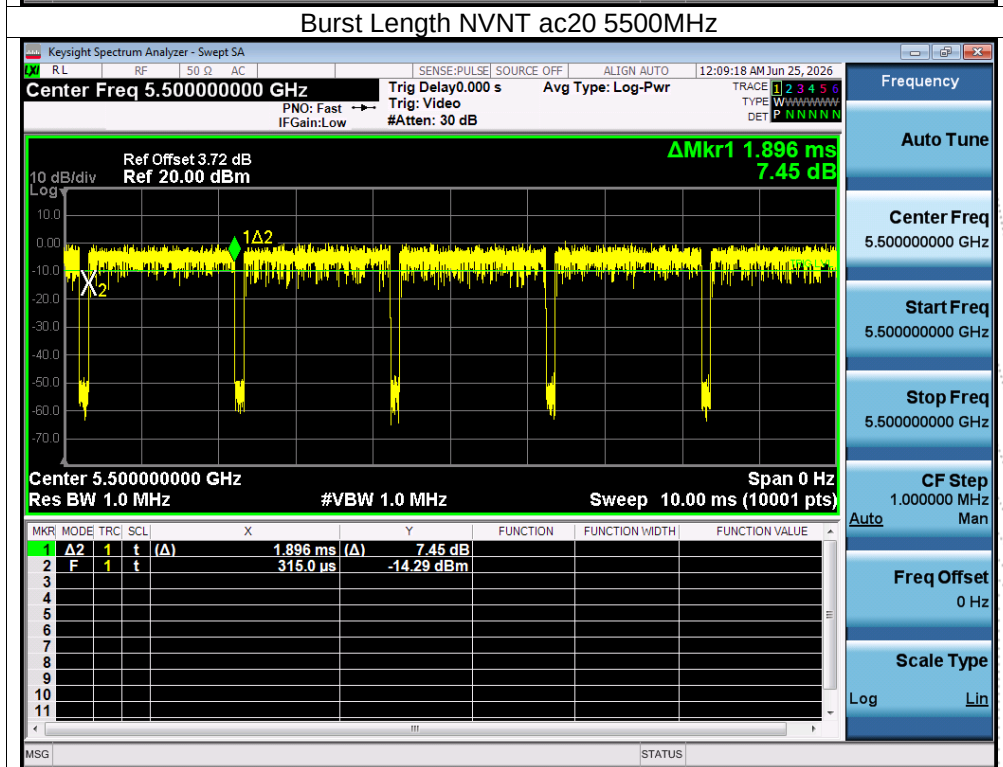
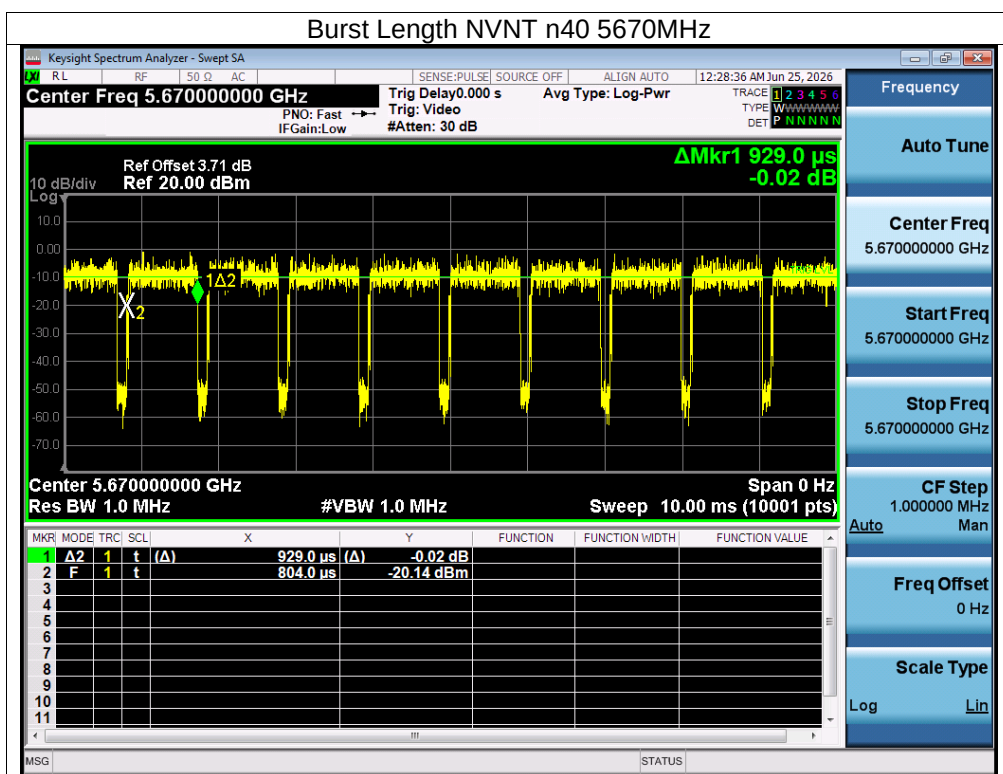
Note: Represent the value of antenna A&B, The worst is Antenna A .  
The worst test channel of all channels was showed as the follow: only shown Antenna A Plot.

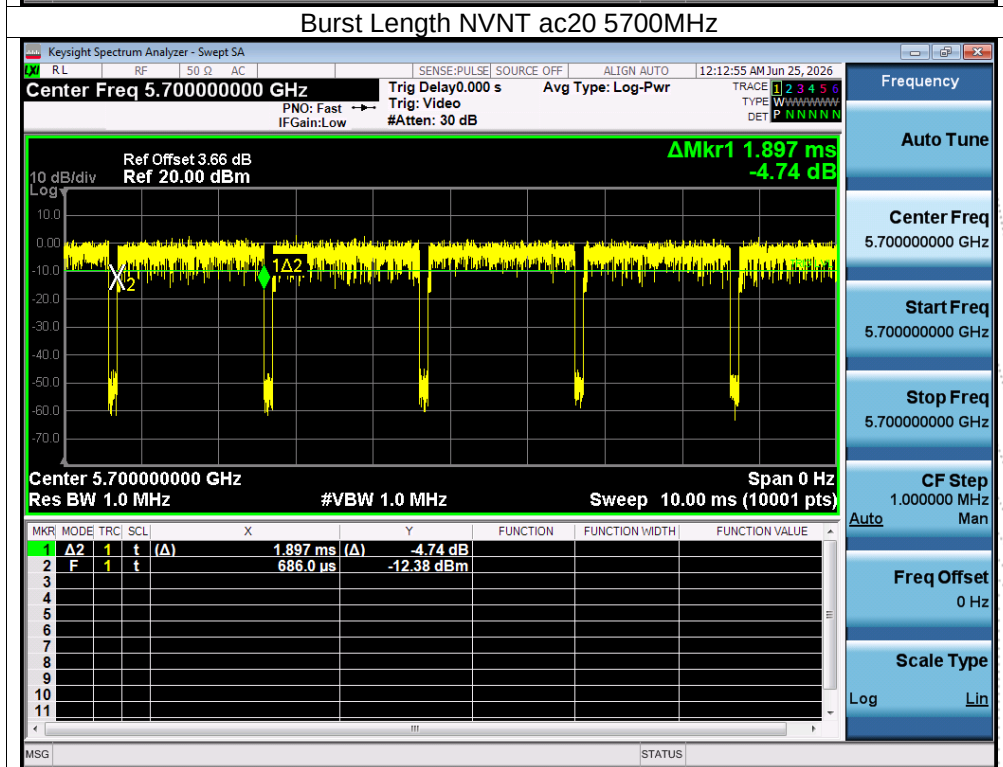
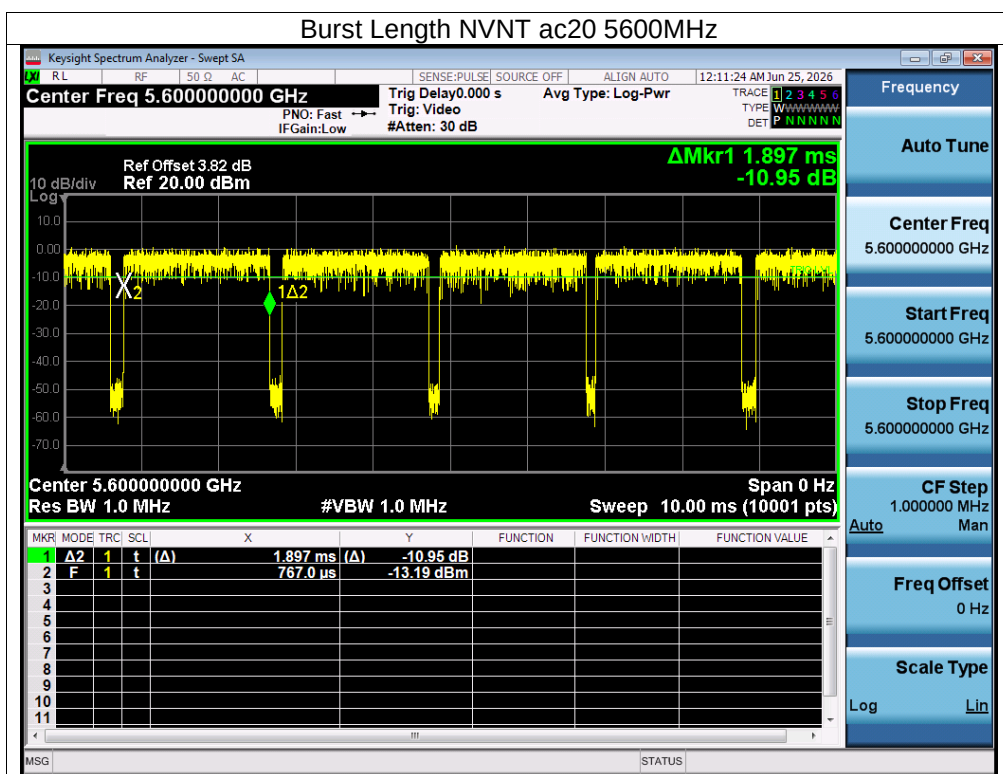


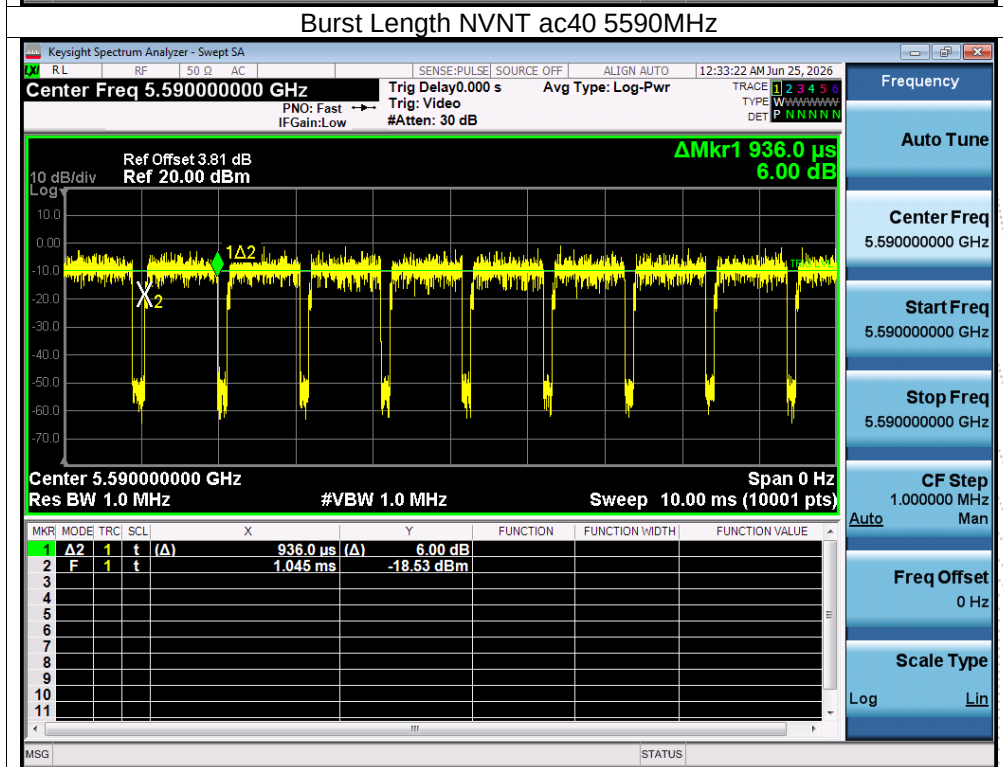
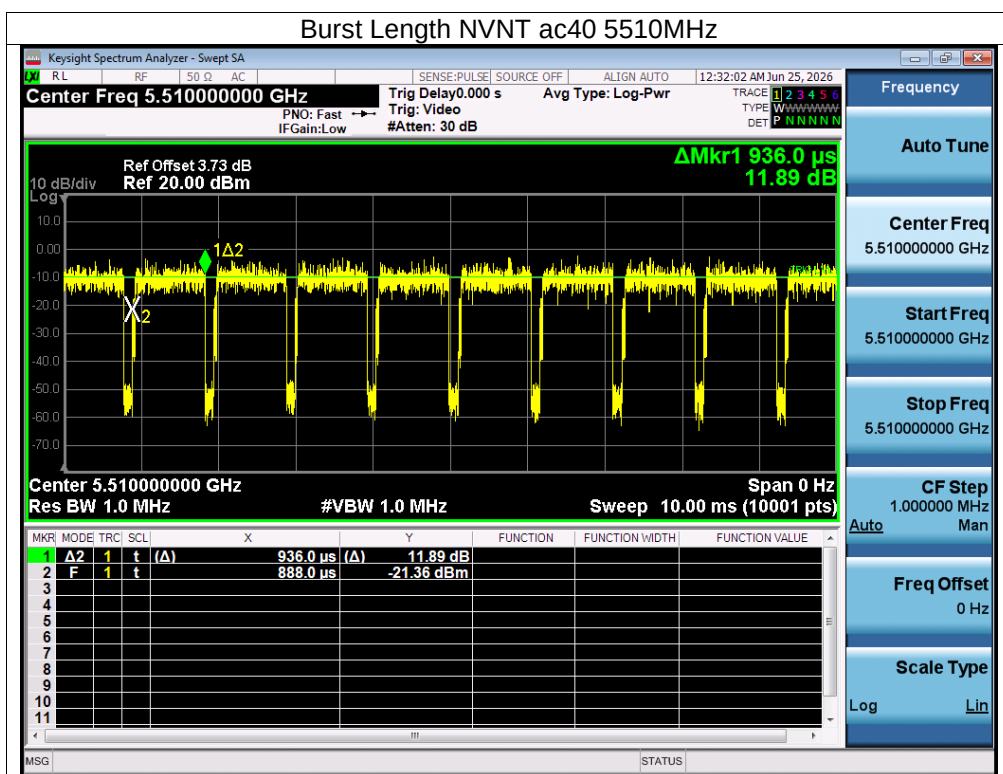


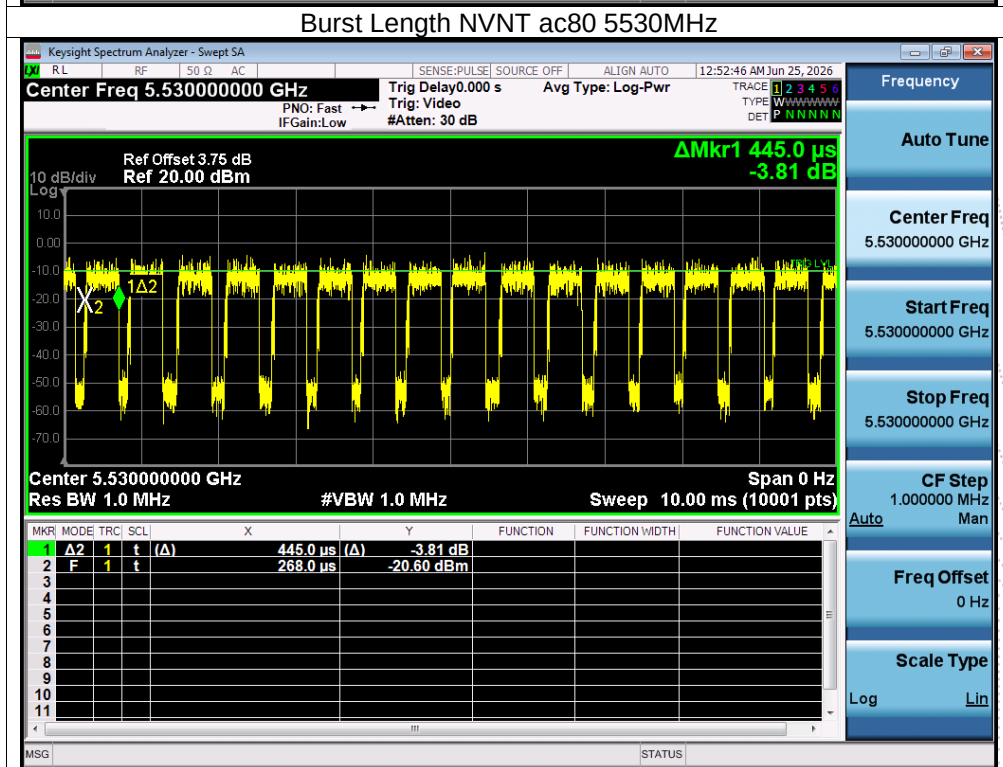
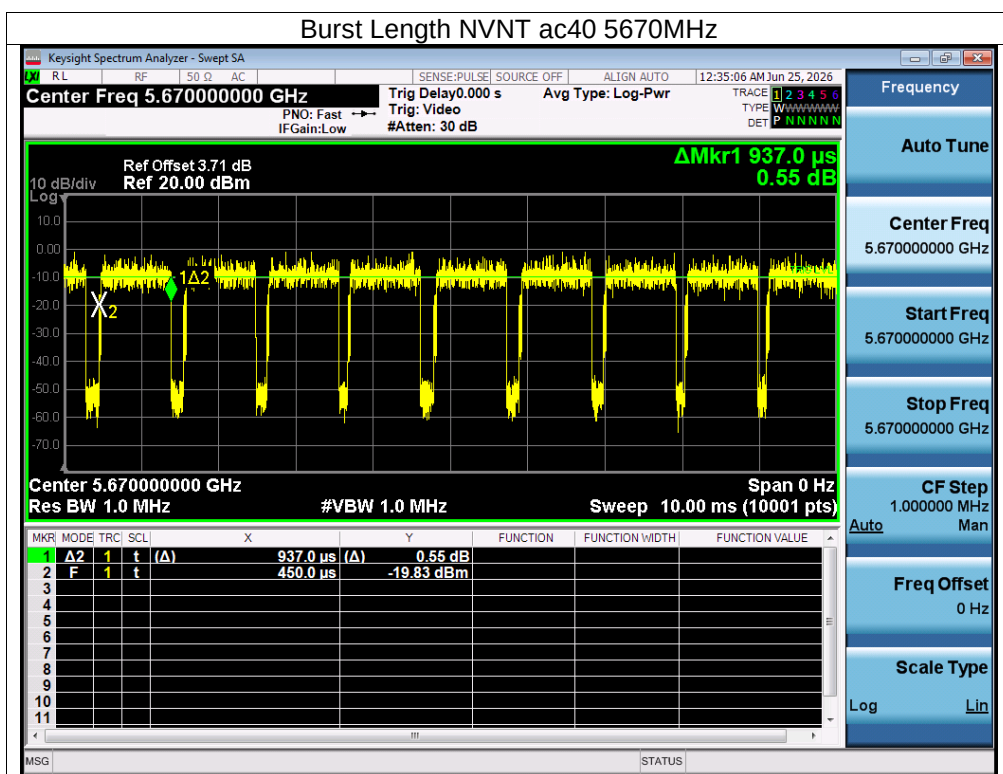


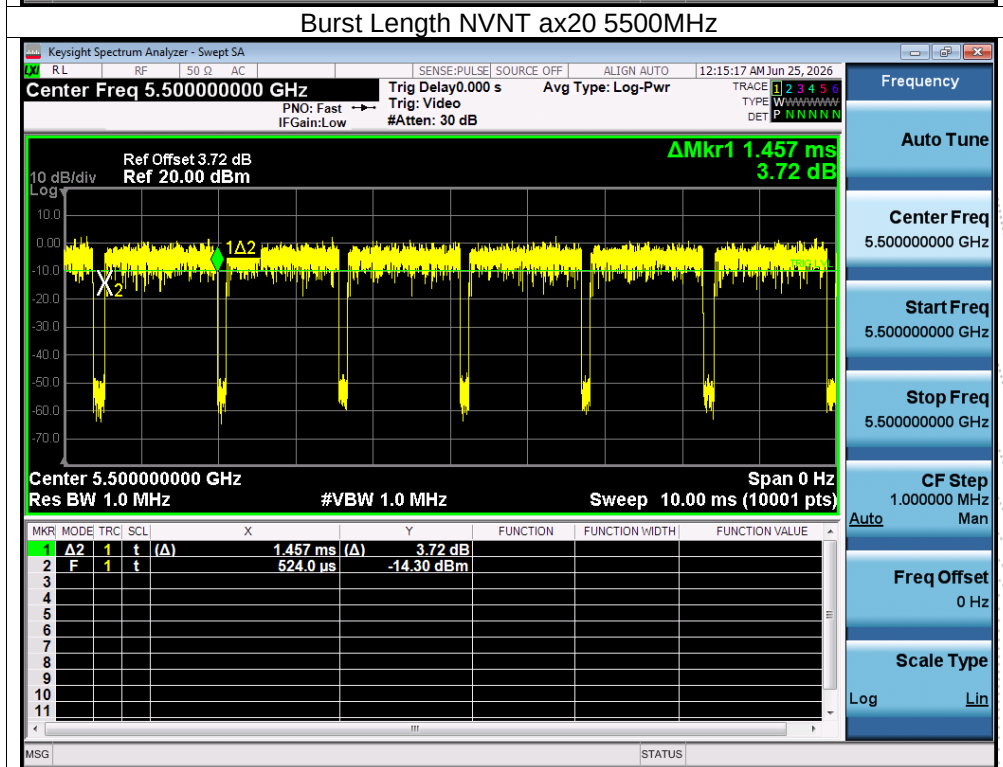
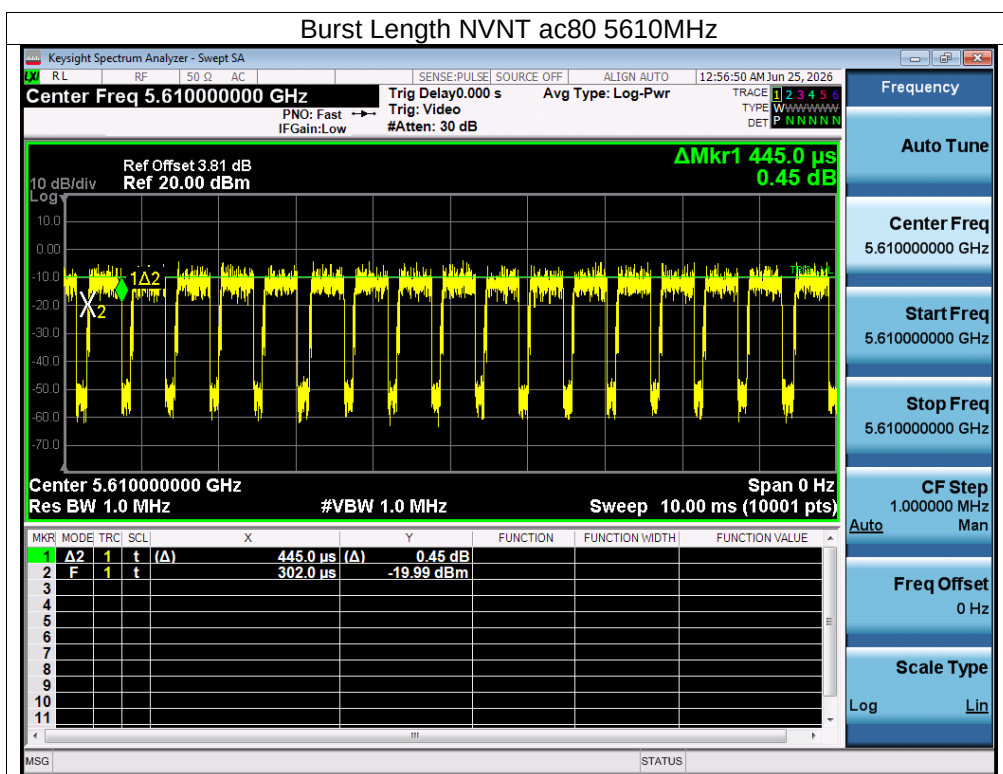


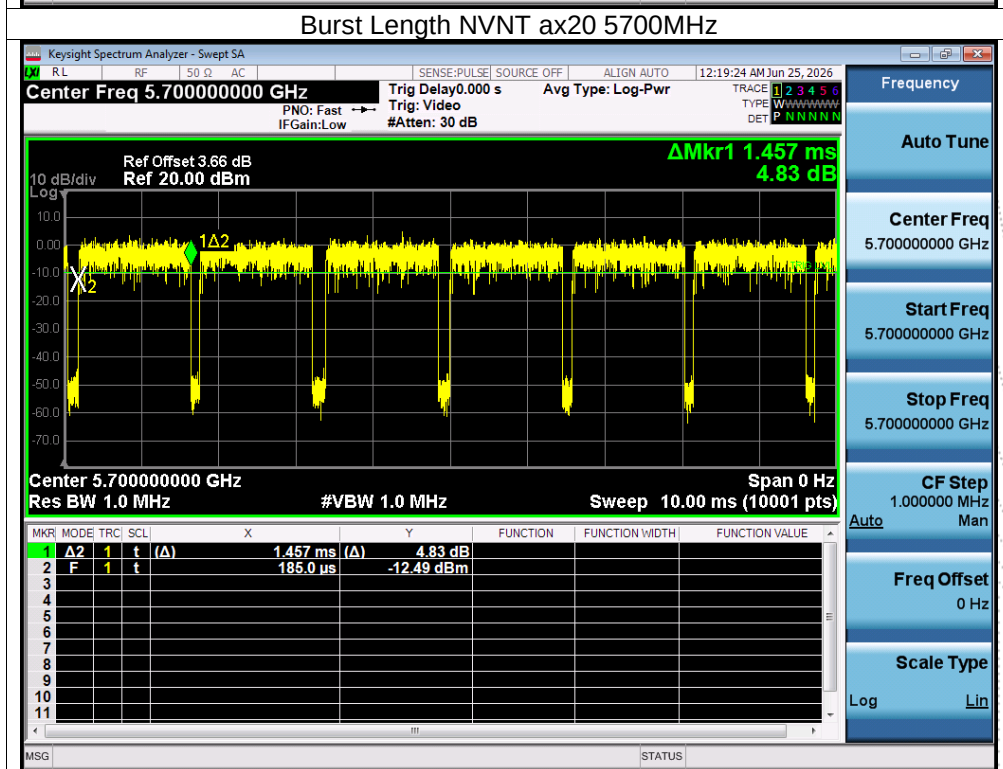
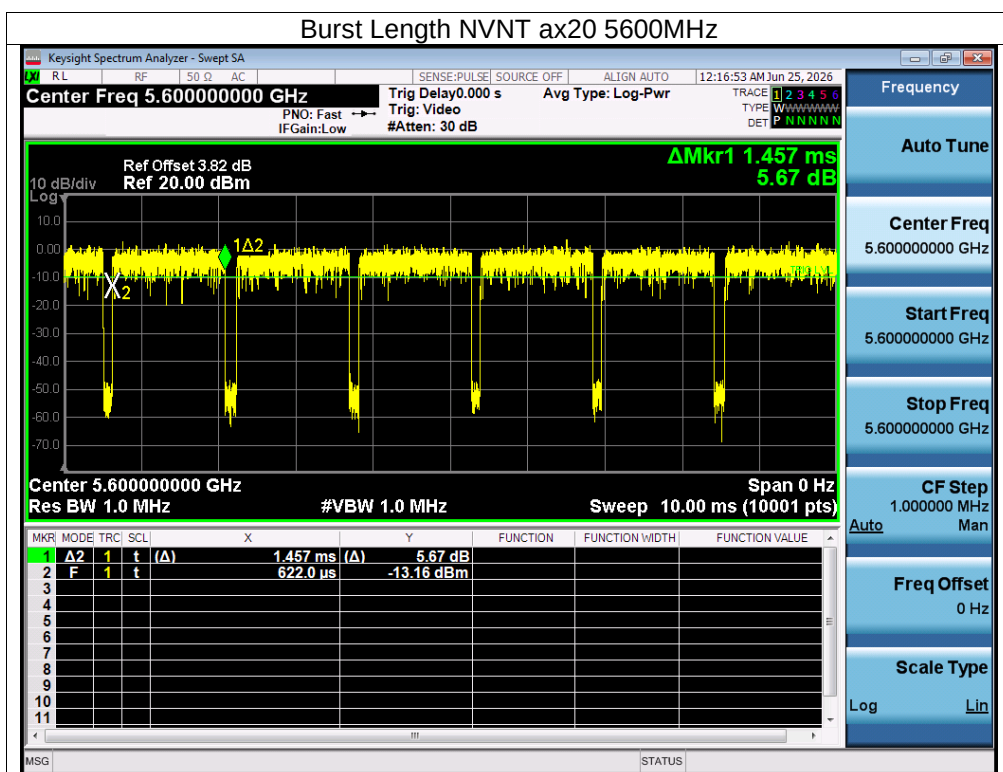




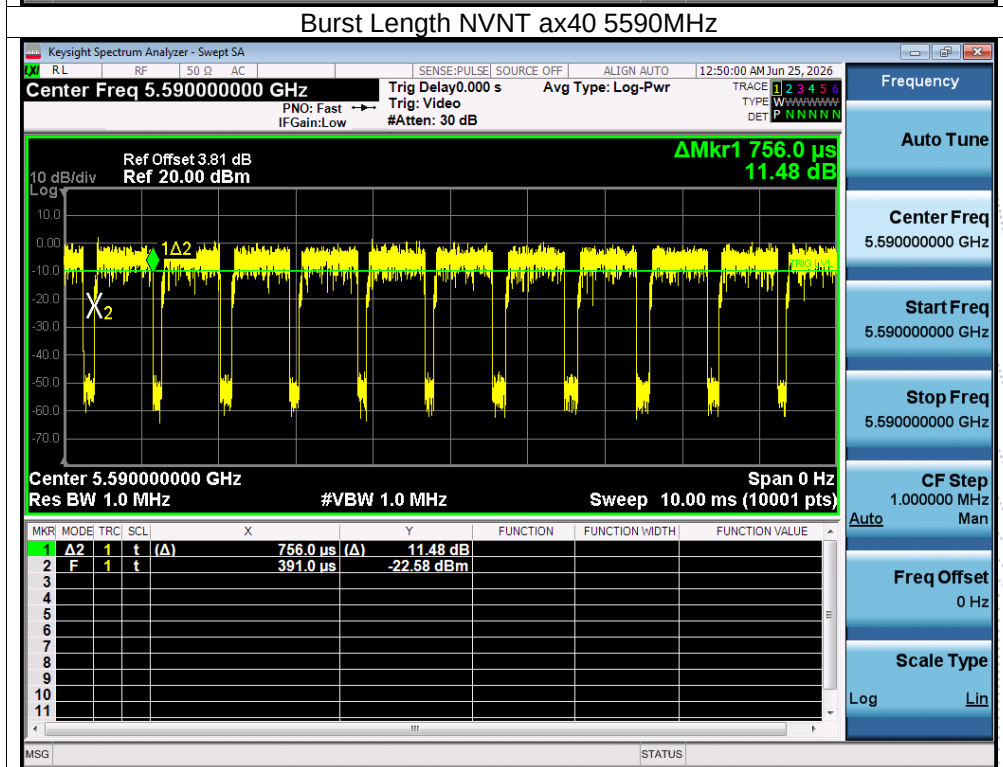
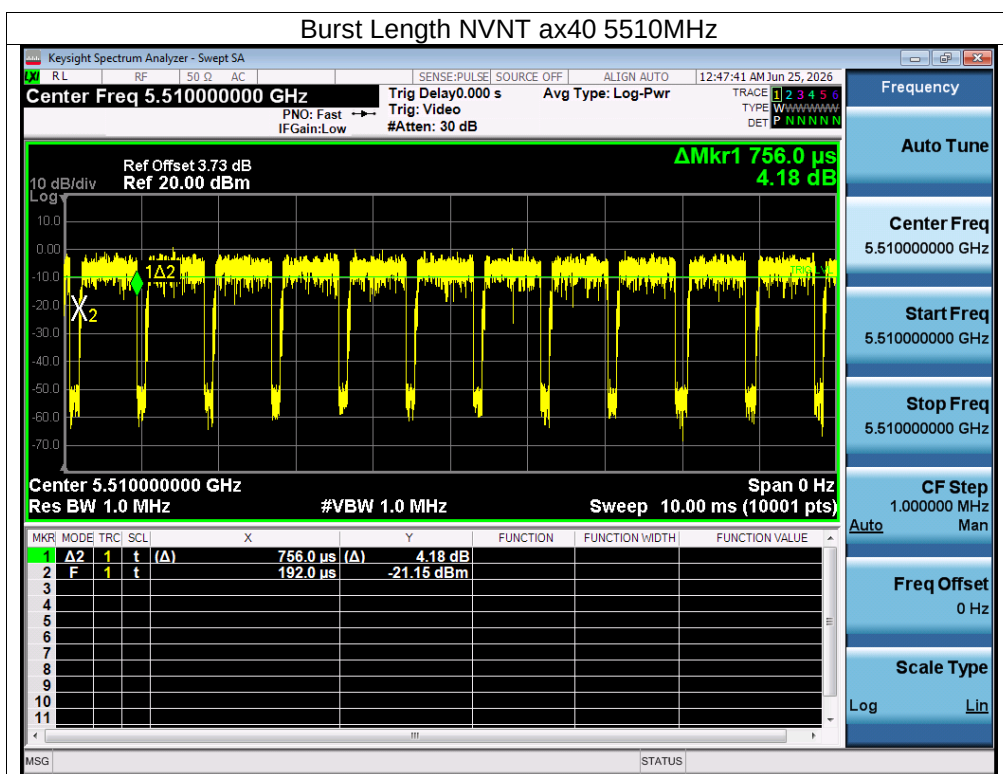


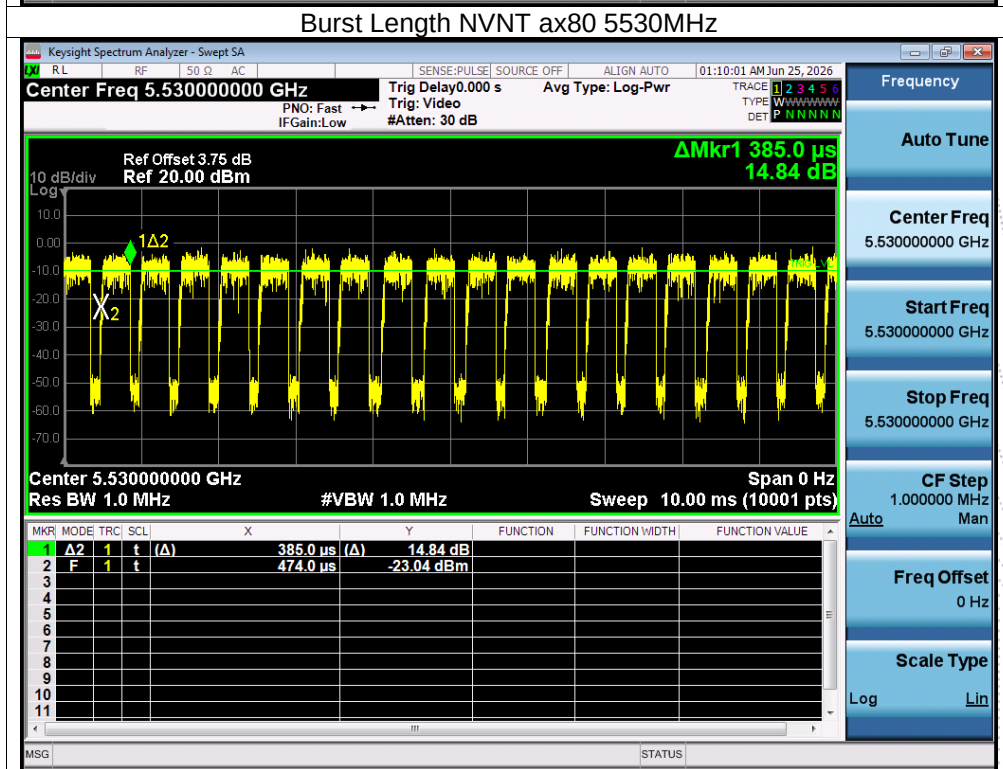
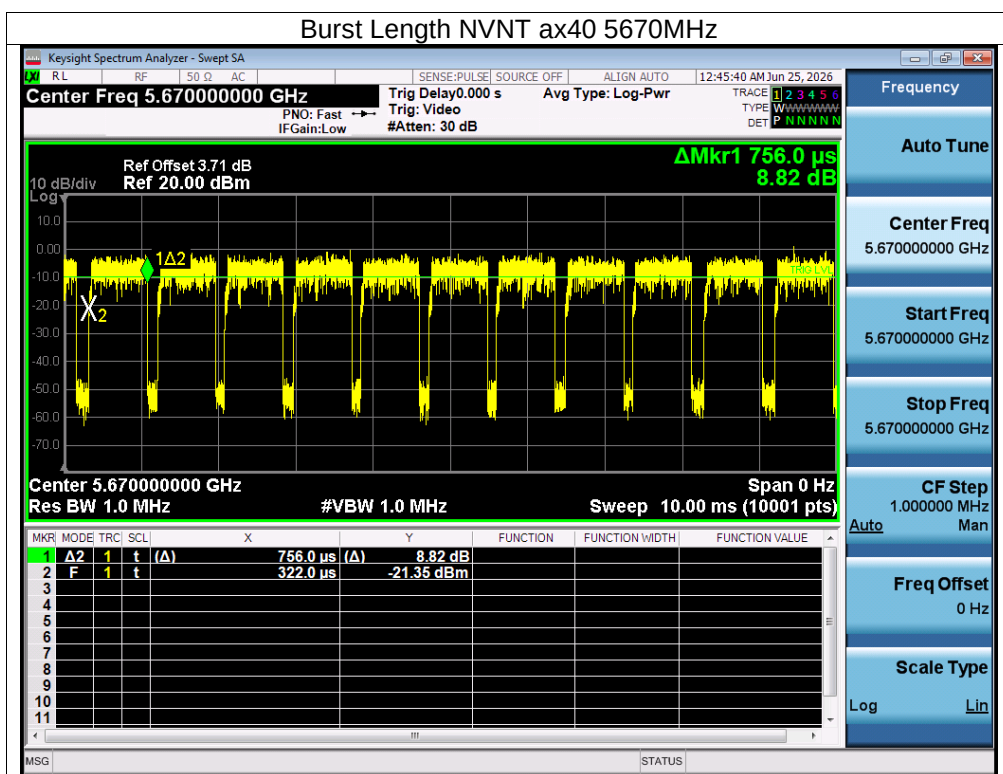


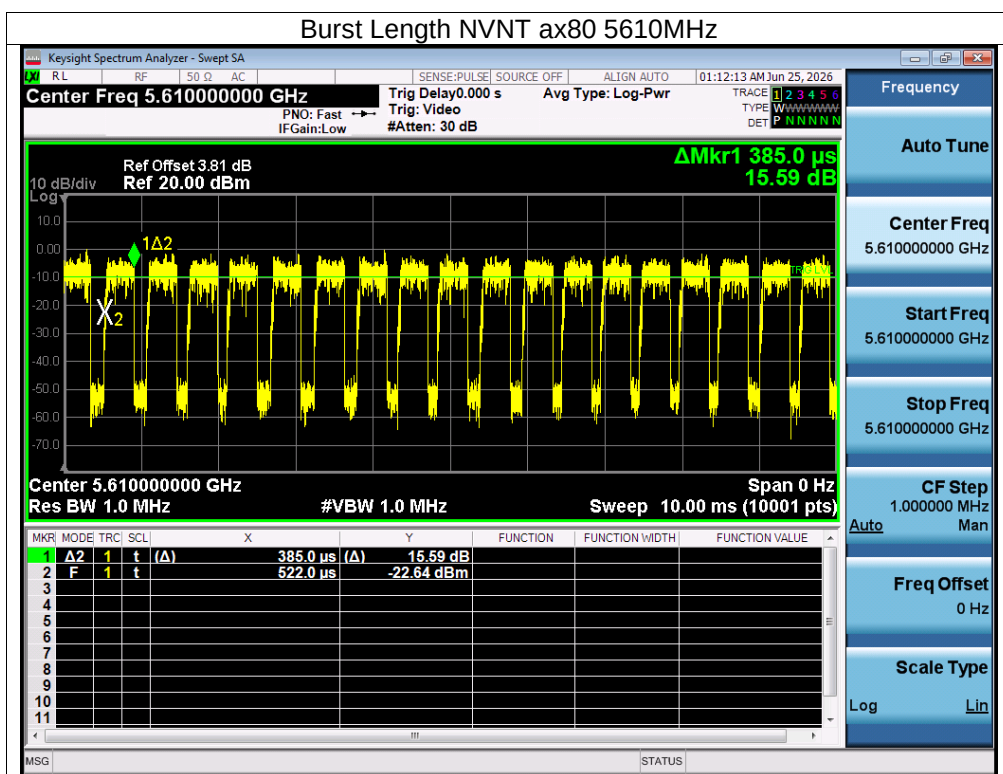




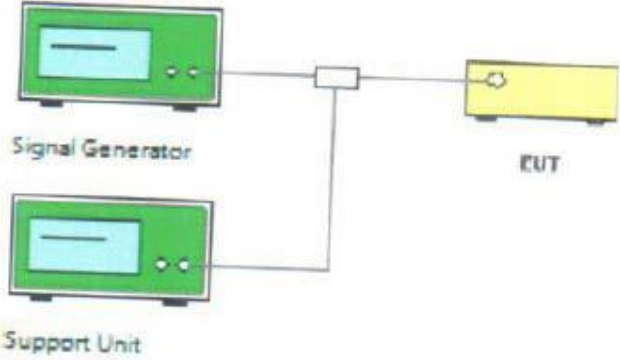
CO., LTD







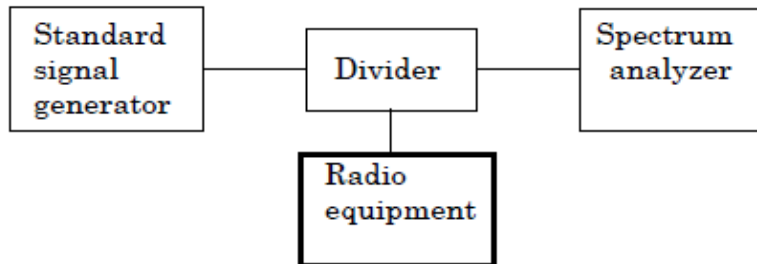
### 13. Interference Prevention Function Measurement

|                   |                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test condition:   | Test diffusion code and modulate with standard coding test signal                                                                                                                                                                                                                                                                          |
| Test setup:       |  <p>The diagram illustrates the test setup. A Signal Generator (green box) and a Support Unit (green box) are connected to an EUT (yellow box). The Signal Generator is connected to the Support Unit, and the Support Unit is connected to the EUT.</p> |
| Test Procedures:  | <ol style="list-style-type: none"> <li>1. The EUT continuous connected with support unit.</li> <li>2. Signal generator transmitted interference signal to the EUT.</li> <li>3. Check the EUT must be automatic cessation of transmitting</li> </ol>                                                                                        |
| Test Instruments: | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                           |
| Test results:     | <p>Pass</p> <p>Transmitter:<br/>The transmitting mode (the identification code is more than 48 bits) of EUT is on normal operating, the interference prevention function is good.</p> <p>Receiver:<br/>The transmitting mode of EUT is on normal operating, the interference prevention function is good.</p>                              |
| Mac address:      | 4c:8e:6f:01:14:08                                                                                                                                                                                                                                                                                                                          |

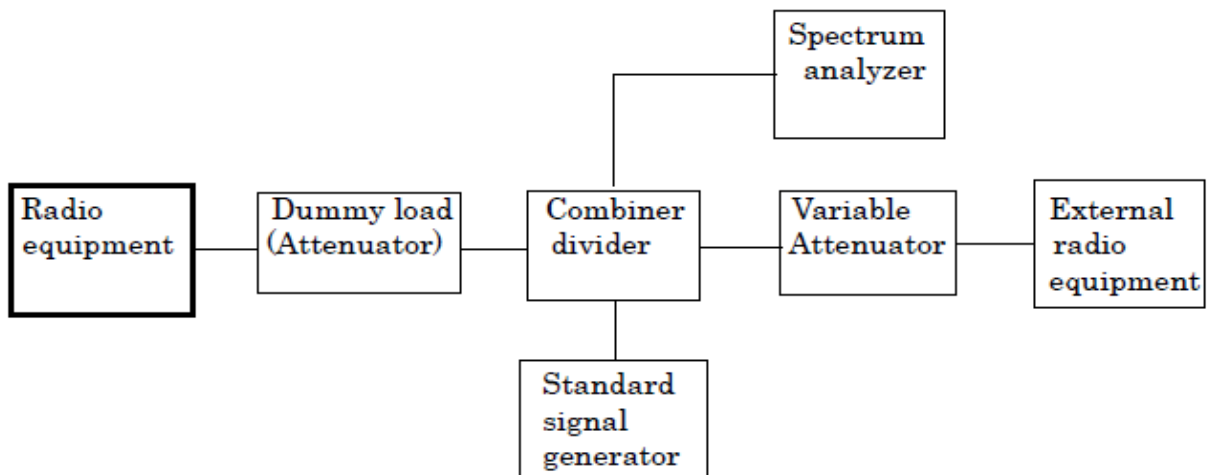
## 14. Carrier Sense Capability Measurement

### 14.1 Block Diagram Of Test Setup

(1) Test performed with the radio equipment to be tested only



(2) Test performed using the external radio equipment



### 14.2 Limit

EUT stop RF transmission signal after carrier inject to EUT.

### 14.3 Test Procedure

(1) Test performed with the radio equipment to be tested only

A. Set the standard signal generator in non-transmission condition and the radio equipment to be tested in transmission condition, and confirm transmission of radiowave by means of the spectrum analyzer.

B. Set the radio equipment to be tested in receiving condition.

C. Set the standard signal generator in transmission condition and the radio equipment to be tested in transmission condition, and confirm non-transmission of radiowave by means of the spectrum analyzer.

(2) Test performed using the external radio equipment

A. Set the standard signal generator in non-transmission condition.

B. Connect the radio equipment to be tested with the external equipment by means of the line and confirm transmission of radiowave of test frequency by means of the spectrum analyzer.

C. Set the radio equipment to be tested in receiving condition.

D. Set the standard signal generator in transmission condition and the radio equipment to be tested in transmission condition, and confirm non-transmission of radiowave by means of the spectrum analyzer.

Note: SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on  $22.79 + G - 20 \cdot \log(f)$  dBm) (G is the antenna gain, f is the test frequency).

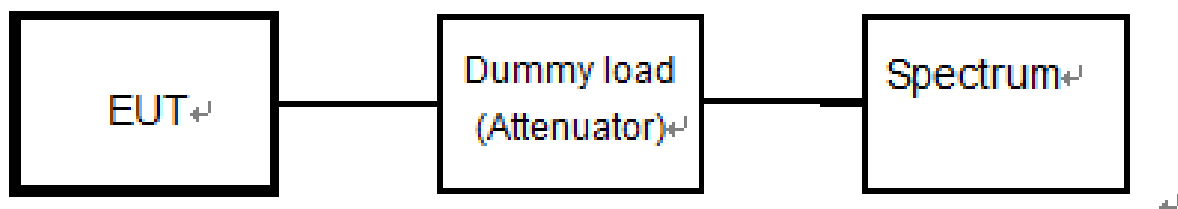
### 14.5 Test Result

(1) RESULT

| Mode             | Channel | Result         |              |             |
|------------------|---------|----------------|--------------|-------------|
|                  |         | Normal Voltage | High Voltage | Low Voltage |
| 802.11a          | CH100   | Pass           | Pass         | Pass        |
|                  | CH120   | Pass           | Pass         | Pass        |
|                  | CH140   | Pass           | Pass         | Pass        |
| 802.11n20        | CH100   | Pass           | Pass         | Pass        |
|                  | CH120   | Pass           | Pass         | Pass        |
|                  | CH140   | Pass           | Pass         | Pass        |
| 802.11n40        | CH102   | Pass           | Pass         | Pass        |
|                  | CH118   | Pass           | Pass         | Pass        |
|                  | CH134   | Pass           | Pass         | Pass        |
| 802.11ac20/ax20  | CH100   | Pass           | Pass         | Pass        |
|                  | CH120   | Pass           | Pass         | Pass        |
|                  | CH140   | Pass           | Pass         | Pass        |
| 802.11nac40/ax40 | CH102   | Pass           | Pass         | Pass        |
|                  | CH118   | Pass           | Pass         | Pass        |
|                  | CH134   | Pass           | Pass         | Pass        |
| 802.11ac80/ax80  | CH106   | Pass           | Pass         | Pass        |
|                  | CH122   | Pass           | Pass         | Pass        |

## 15. Adjacent Channel Emitted Power Measurement

### 15.1 Block Diagram Of Test Setup



### 15.2 Limit

| 802.11a                                                        | 802.11n20/ac20/ax20                                            |
|----------------------------------------------------------------|----------------------------------------------------------------|
| Fc ± 20MHz ±10MHz BW : -25dBc<br>Fc ± 40MHz ±10MHz BW : -40dBc | Fc ± 20MHz ±10MHz BW : -25dBc<br>Fc ± 40MHz ±10MHz BW : -40dBc |
| 802.11n40/ac40/ax40                                            | 802.11ac80/ax80                                                |
| Fc ± 40MHz ±20MHz BW : -25dBc<br>Fc ± 80MHz ±20MHz BW : -40dBc | Fc ± 80MHz ±40MHz BW : -25dBc                                  |

### 15.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

| Spectrum Parameter    | Setting                                                                 |
|-----------------------|-------------------------------------------------------------------------|
| Center frequency      | Frequency indicated in the test procedure                               |
| Sweep frequency width | 120MHz(20MHz system);<br>240MHz(40MHz system);<br>480MHz(80MHz system); |
| Resoluble bandwidth   | 300kHz                                                                  |
| Video bandwidth       | 300kHz                                                                  |
| Y-axis scale          | 10dB/Div.                                                               |
| Input level           | Value to be maximum dynamic range                                       |
| Data points           | More than 400 points                                                    |
| Sweep mode            | Continuous sweep                                                        |
| Detection mode        | Sample (Positive peak in case of burst wave)                            |

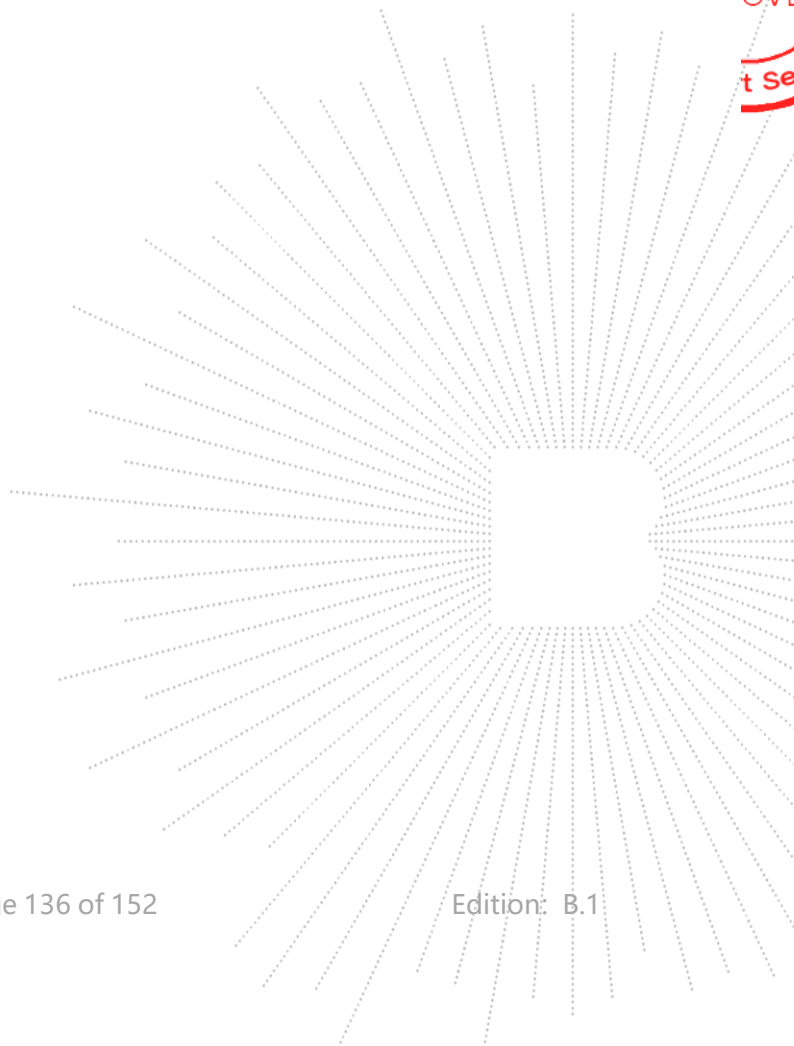
## 15.4 Test Result

|              |         |              |         |
|--------------|---------|--------------|---------|
| Temperature: | 25°C    |              |         |
| Humidity:    | 55 % RH | Test Voltage | DC 3.3V |

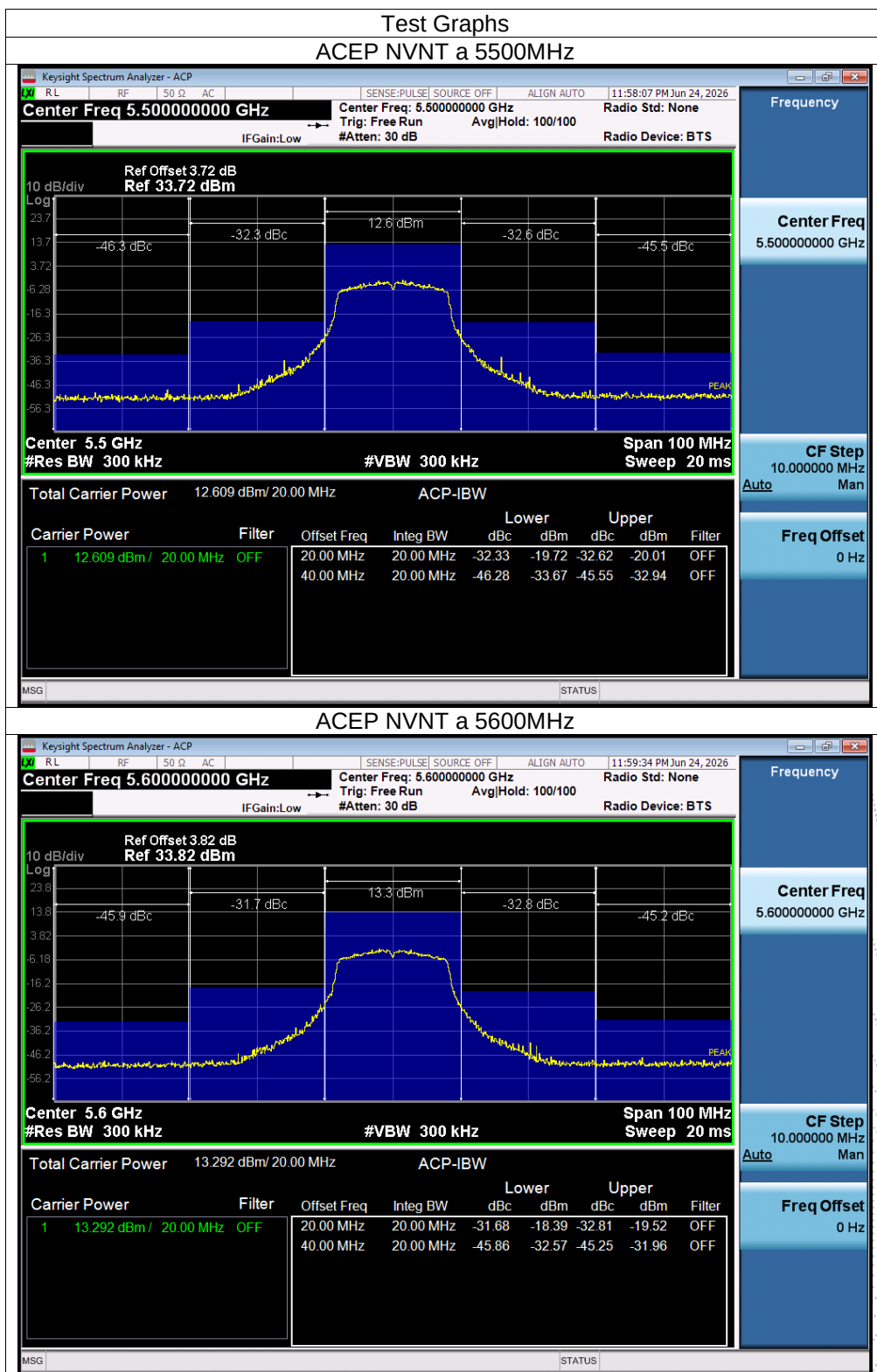
| Condition | Mode | Frequency (MHz) | Offset (MHz) | Value (dBc) |        |        | Limit (dBc) | Verdict |
|-----------|------|-----------------|--------------|-------------|--------|--------|-------------|---------|
|           |      |                 |              | ANT A       | ANT B  | Total  |             |         |
| NVNT      | a    | 5500            | -20          | -32.33      | -33.21 | /      | -25         | Pass    |
| NVNT      | a    | 5500            | -40          | -46.28      | -46.08 | /      | -40         | Pass    |
| NVNT      | a    | 5500            | 20           | -32.62      | -33.26 | /      | -25         | Pass    |
| NVNT      | a    | 5500            | 40           | -45.55      | -45.24 | /      | -40         | Pass    |
| NVNT      | a    | 5600            | -20          | -31.68      | -32.61 | /      | -25         | Pass    |
| NVNT      | a    | 5600            | -40          | -45.86      | -45.45 | /      | -40         | Pass    |
| NVNT      | a    | 5600            | 20           | -32.81      | -33.12 | /      | -25         | Pass    |
| NVNT      | a    | 5600            | 40           | -45.25      | -44.75 | /      | -40         | Pass    |
| NVNT      | a    | 5700            | -20          | -32.08      | -33.33 | /      | -25         | Pass    |
| NVNT      | a    | 5700            | -40          | -46.21      | -46.58 | /      | -40         | Pass    |
| NVNT      | a    | 5700            | 20           | -31.76      | -32.82 | /      | -25         | Pass    |
| NVNT      | a    | 5700            | 40           | -45.97      | -46.56 | /      | -40         | Pass    |
| NVNT      | n20  | 5500            | -20          | /           | /      | -30.75 | -25         | Pass    |
| NVNT      | n20  | 5500            | -40          | /           | /      | -45.36 | -40         | Pass    |
| NVNT      | n20  | 5500            | 20           | /           | /      | -30.9  | -25         | Pass    |
| NVNT      | n20  | 5500            | 40           | /           | /      | -44.38 | -40         | Pass    |
| NVNT      | n20  | 5600            | -20          | /           | /      | -30.42 | -25         | Pass    |
| NVNT      | n20  | 5600            | -40          | /           | /      | -44.86 | -40         | Pass    |
| NVNT      | n20  | 5600            | 20           | /           | /      | -31.31 | -25         | Pass    |
| NVNT      | n20  | 5600            | 40           | /           | /      | -44.23 | -40         | Pass    |
| NVNT      | n20  | 5700            | -20          | /           | /      | -30.68 | -25         | Pass    |
| NVNT      | n20  | 5700            | -40          | /           | /      | -45.18 | -40         | Pass    |
| NVNT      | n20  | 5700            | 20           | /           | /      | -30.62 | -25         | Pass    |
| NVNT      | n20  | 5700            | 40           | /           | /      | -45.09 | -40         | Pass    |
| NVNT      | n40  | 5510            | -40          | /           | /      | -35.31 | -25         | Pass    |
| NVNT      | n40  | 5510            | -80          | /           | /      | -44.35 | -40         | Pass    |
| NVNT      | n40  | 5510            | 40           | /           | /      | -34.44 | -25         | Pass    |
| NVNT      | n40  | 5510            | 80           | /           | /      | -42.57 | -40         | Pass    |
| NVNT      | n40  | 5590            | -40          | /           | /      | -33.75 | -25         | Pass    |
| NVNT      | n40  | 5590            | -80          | /           | /      | -44.47 | -40         | Pass    |
| NVNT      | n40  | 5590            | 40           | /           | /      | -33.96 | -25         | Pass    |
| NVNT      | n40  | 5590            | 80           | /           | /      | -43    | -40         | Pass    |
| NVNT      | n40  | 5670            | -40          | /           | /      | -35.38 | -25         | Pass    |
| NVNT      | n40  | 5670            | -80          | /           | /      | -44.12 | -40         | Pass    |
| NVNT      | n40  | 5670            | 40           | /           | /      | -34.34 | -25         | Pass    |
| NVNT      | n40  | 5670            | 80           | /           | /      | -43.67 | -40         | Pass    |
| NVNT      | ac20 | 5500            | -20          | /           | /      | -30.89 | -25         | Pass    |
| NVNT      | ac20 | 5500            | -40          | /           | /      | -45.34 | -40         | Pass    |

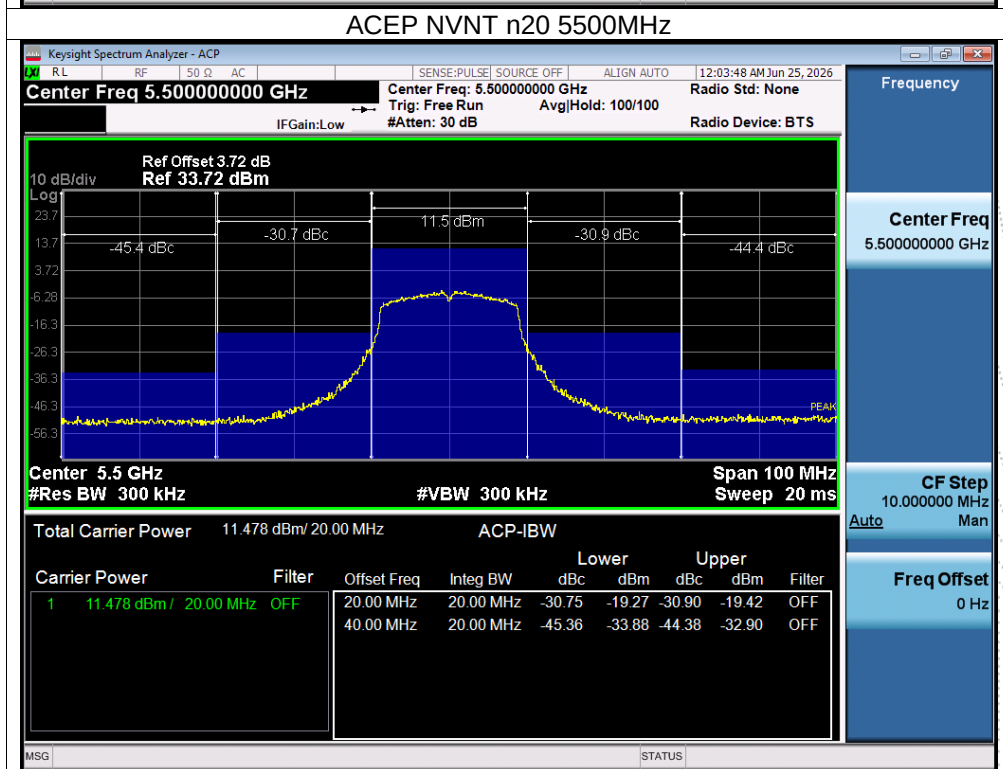
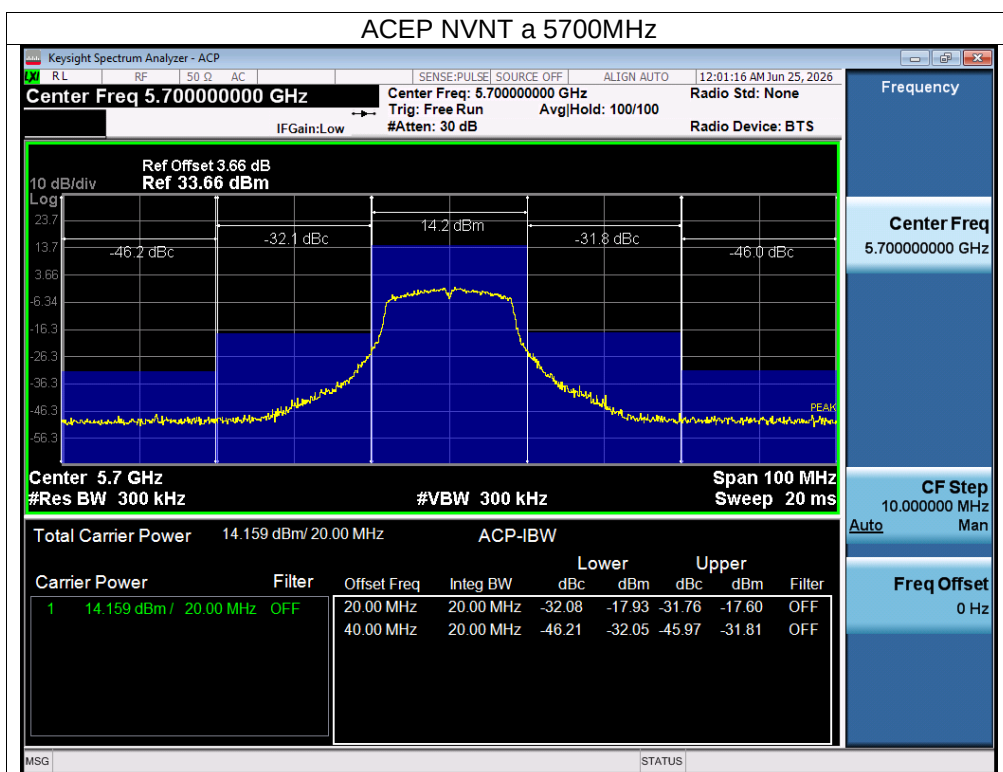
|      |      |      |      |   |   |               |     |      |
|------|------|------|------|---|---|---------------|-----|------|
| NVNT | ac20 | 5500 | 20   | / | / | -30.86        | -25 | Pass |
| NVNT | ac20 | 5500 | 40   | / | / | -44.36        | -40 | Pass |
| NVNT | ac20 | 5600 | -20  | / | / | -30.07        | -25 | Pass |
| NVNT | ac20 | 5600 | -40  | / | / | -44.83        | -40 | Pass |
| NVNT | ac20 | 5600 | 20   | / | / | -30.79        | -25 | Pass |
| NVNT | ac20 | 5600 | 40   | / | / | -44.24        | -40 | Pass |
| NVNT | ac20 | 5700 | -20  | / | / | -30.59        | -25 | Pass |
| NVNT | ac20 | 5700 | -40  | / | / | -45.19        | -40 | Pass |
| NVNT | ac20 | 5700 | 20   | / | / | -30.27        | -25 | Pass |
| NVNT | ac20 | 5700 | 40   | / | / | -45.11        | -40 | Pass |
| NVNT | ac40 | 5510 | -40  | / | / | -35.15        | -25 | Pass |
| NVNT | ac40 | 5510 | -80  | / | / | -44.34        | -40 | Pass |
| NVNT | ac40 | 5510 | 40   | / | / | -34.35        | -25 | Pass |
| NVNT | ac40 | 5510 | 80   | / | / | -42.58        | -40 | Pass |
| NVNT | ac40 | 5590 | -40  | / | / | -33.89        | -25 | Pass |
| NVNT | ac40 | 5590 | -80  | / | / | -44.39        | -40 | Pass |
| NVNT | ac40 | 5590 | 40   | / | / | -33.97        | -25 | Pass |
| NVNT | ac40 | 5590 | 80   | / | / | -43.01        | -40 | Pass |
| NVNT | ac40 | 5670 | -40  | / | / | -35.19        | -25 | Pass |
| NVNT | ac40 | 5670 | -80  | / | / | -44.3         | -40 | Pass |
| NVNT | ac40 | 5670 | 40   | / | / | -34.18        | -25 | Pass |
| NVNT | ac40 | 5670 | 80   | / | / | -43.64        | -40 | Pass |
| NVNT | ac80 | 5530 | -80  | / | / | -34.33        | -25 | Pass |
| NVNT | ac80 | 5530 | -160 | / | / | -42.8         | -40 | Pass |
| NVNT | ac80 | 5530 | 80   | / | / | -33.69        | -25 | Pass |
| NVNT | ac80 | 5530 | 160  | / | / | -40.43        | -40 | Pass |
| NVNT | ac80 | 5610 | -80  | / | / | -34.71        | -25 | Pass |
| NVNT | ac80 | 5610 | -160 | / | / | -43.19        | -40 | Pass |
| NVNT | ac80 | 5610 | 80   | / | / | -33.93        | -25 | Pass |
| NVNT | ac80 | 5610 | 160  | / | / | -41.43        | -40 | Pass |
| NVNT | ax20 | 5500 | -20  | / | / | -29.64        | -25 | Pass |
| NVNT | ax20 | 5500 | -40  | / | / | -46.65        | -40 | Pass |
| NVNT | ax20 | 5500 | 20   | / | / | -29.5         | -25 | Pass |
| NVNT | ax20 | 5500 | 40   | / | / | -45.57        | -40 | Pass |
| NVNT | ax20 | 5600 | -20  | / | / | -30.02        | -25 | Pass |
| NVNT | ax20 | 5600 | -40  | / | / | -46.05        | -40 | Pass |
| NVNT | ax20 | 5600 | 20   | / | / | -29.8         | -25 | Pass |
| NVNT | ax20 | 5600 | 40   | / | / | -45.62        | -40 | Pass |
| NVNT | ax20 | 5700 | -20  | / | / | -30.12        | -25 | Pass |
| NVNT | ax20 | 5700 | -40  | / | / | -46.31        | -40 | Pass |
| NVNT | ax20 | 5700 | 20   | / | / | <b>-29.13</b> | -25 | Pass |
| NVNT | ax20 | 5700 | 40   | / | / | -46.31        | -40 | Pass |
| NVNT | ax40 | 5510 | -40  | / | / | -34.17        | -25 | Pass |
| NVNT | ax40 | 5510 | -80  | / | / | -45.77        | -40 | Pass |
| NVNT | ax40 | 5510 | 40   | / | / | -34.67        | -25 | Pass |
| NVNT | ax40 | 5510 | 80   | / | / | -44.12        | -40 | Pass |

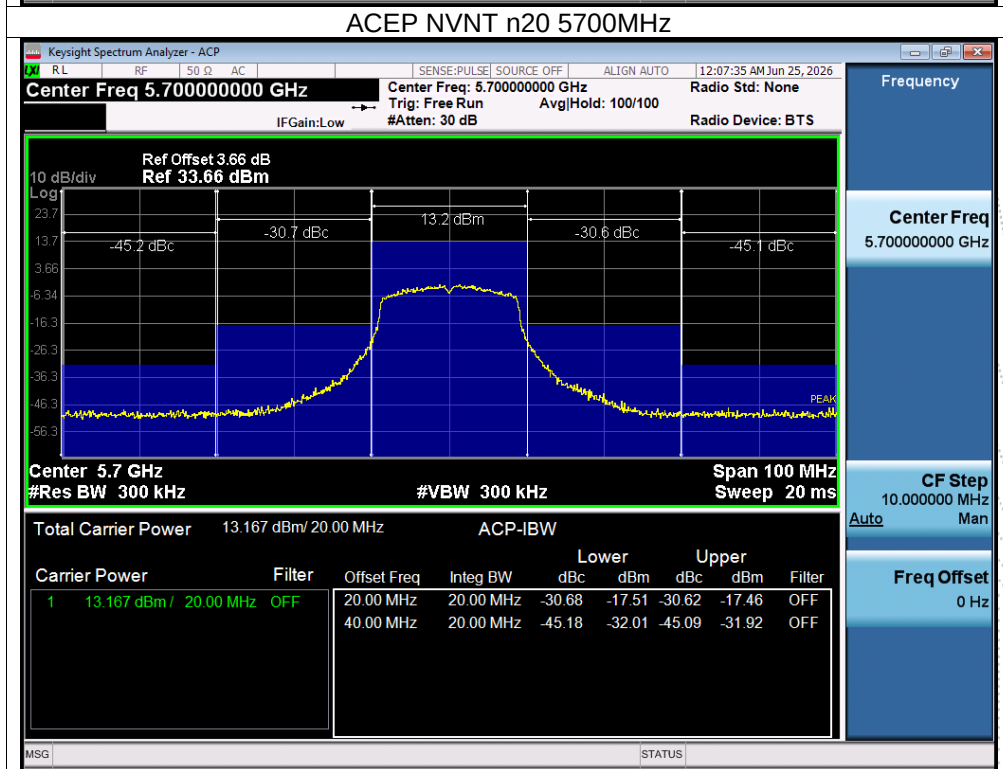
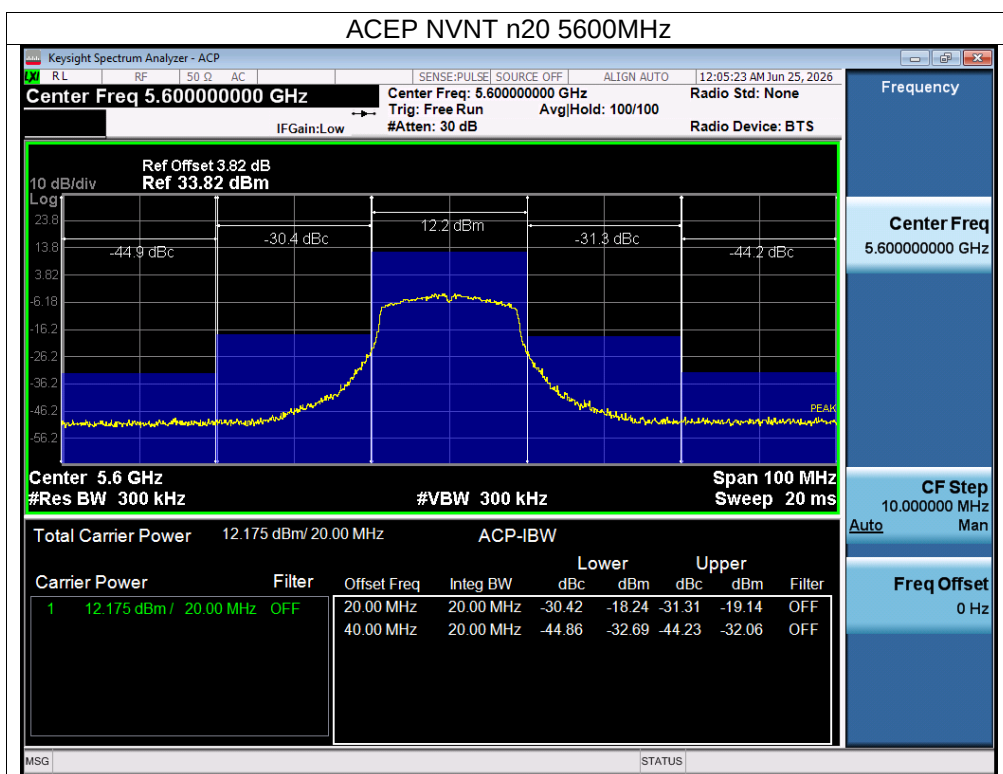
|      |      |      |      |   |   |        |     |      |
|------|------|------|------|---|---|--------|-----|------|
| NVNT | ax40 | 5590 | -40  | / | / | -33.31 | -25 | Pass |
| NVNT | ax40 | 5590 | -80  | / | / | -45.86 | -40 | Pass |
| NVNT | ax40 | 5590 | 40   | / | / | -34.24 | -25 | Pass |
| NVNT | ax40 | 5590 | 80   | / | / | -44.68 | -40 | Pass |
| NVNT | ax40 | 5670 | -40  | / | / | -34.02 | -25 | Pass |
| NVNT | ax40 | 5670 | -80  | / | / | -43.58 | -40 | Pass |
| NVNT | ax40 | 5670 | 40   | / | / | -33.85 | -25 | Pass |
| NVNT | ax40 | 5670 | 80   | / | / | -43.06 | -40 | Pass |
| NVNT | ax80 | 5530 | -80  | / | / | -34.76 | -25 | Pass |
| NVNT | ax80 | 5530 | -160 | / | / | -44    | -40 | Pass |
| NVNT | ax80 | 5530 | 80   | / | / | -33.29 | -25 | Pass |
| NVNT | ax80 | 5530 | 160  | / | / | -41.7  | -40 | Pass |
| NVNT | ax80 | 5610 | -80  | / | / | -34.75 | -25 | Pass |
| NVNT | ax80 | 5610 | -160 | / | / | -44.45 | -40 | Pass |
| NVNT | ax80 | 5610 | 80   | / | / | -33.68 | -25 | Pass |
| NVNT | ax80 | 5610 | 160  | / | / | -42.42 | -40 | Pass |

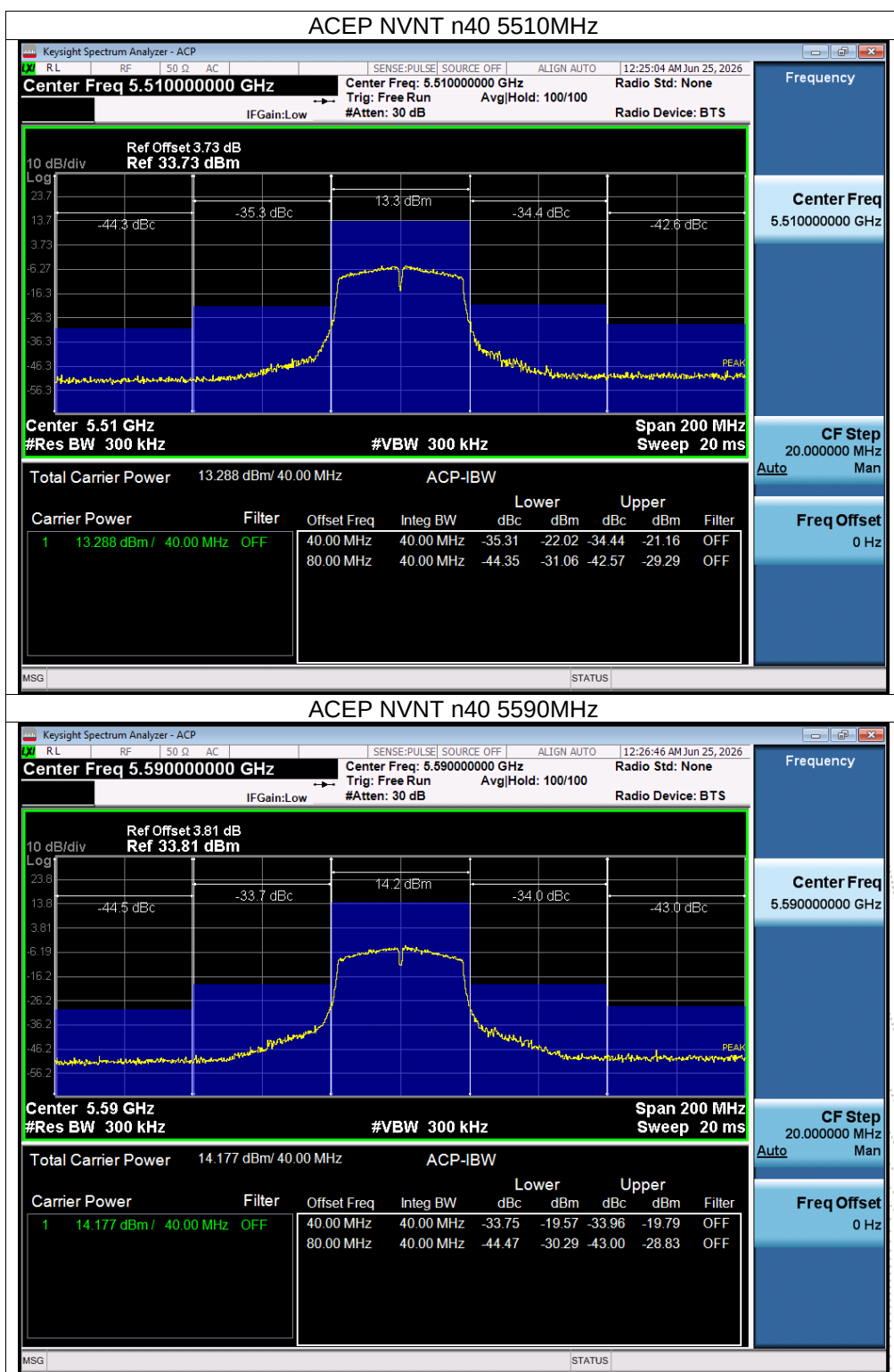


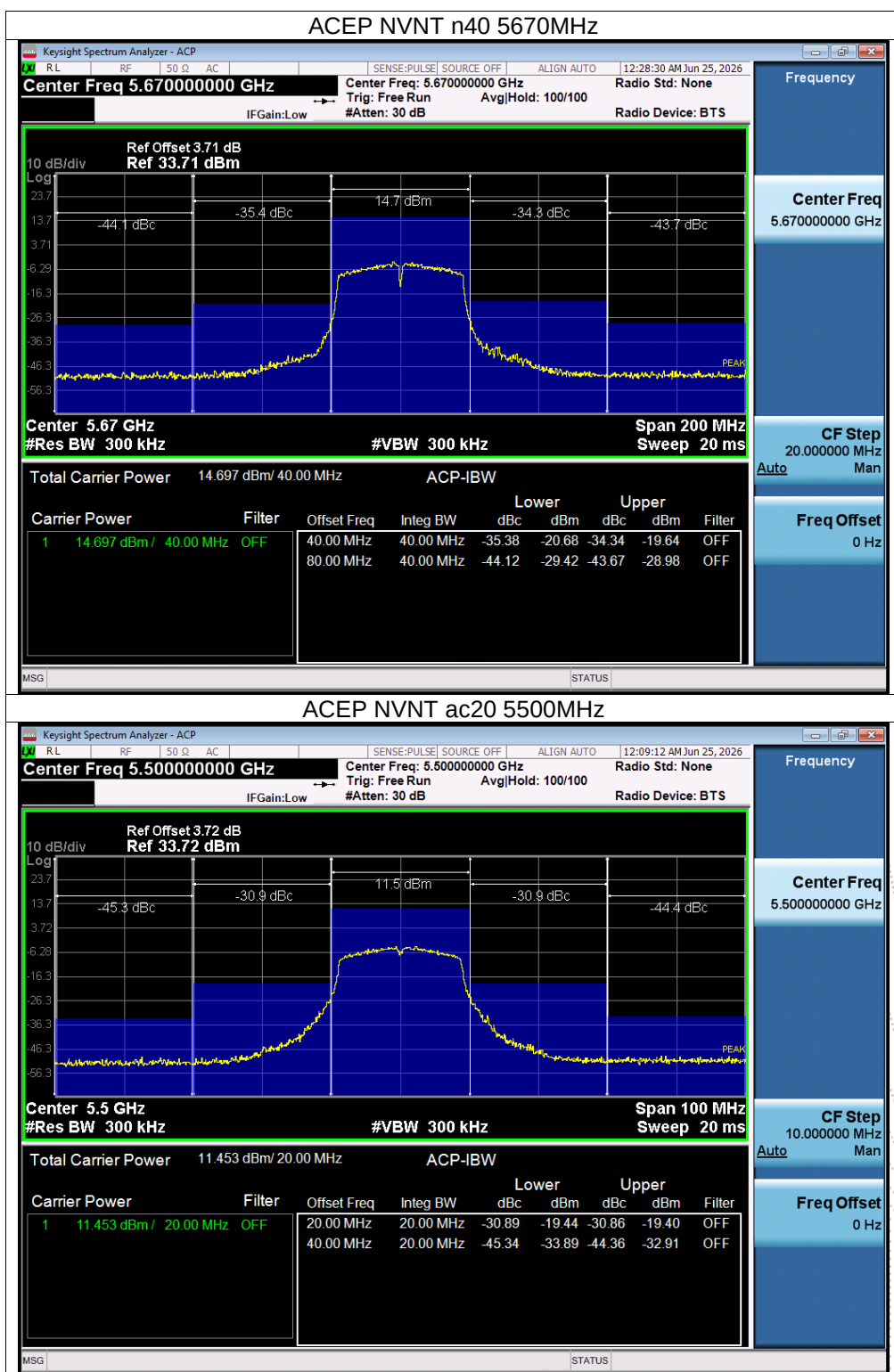
The worst test channel of all channels was showed as the follow: only shown A Plot and MIMO.

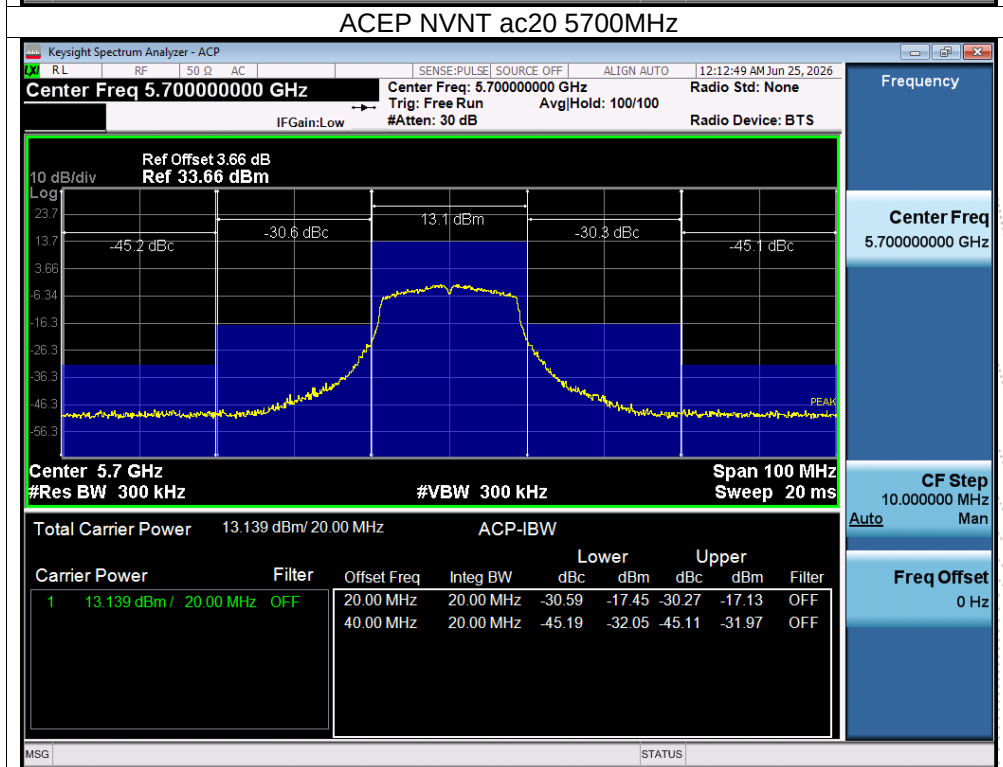
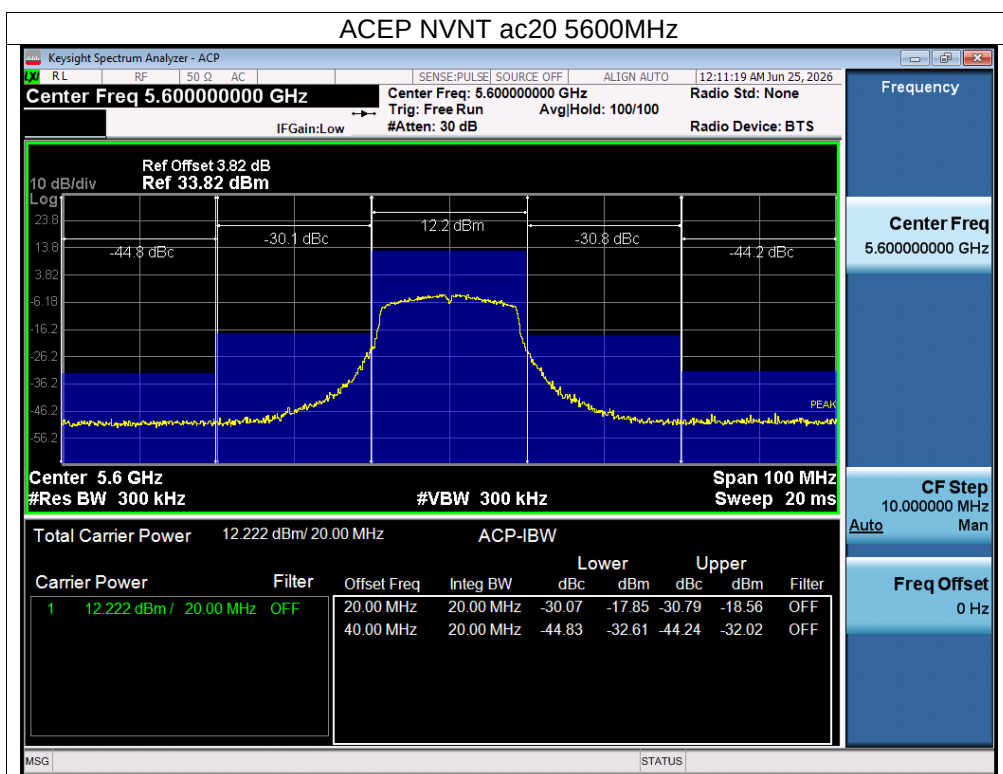


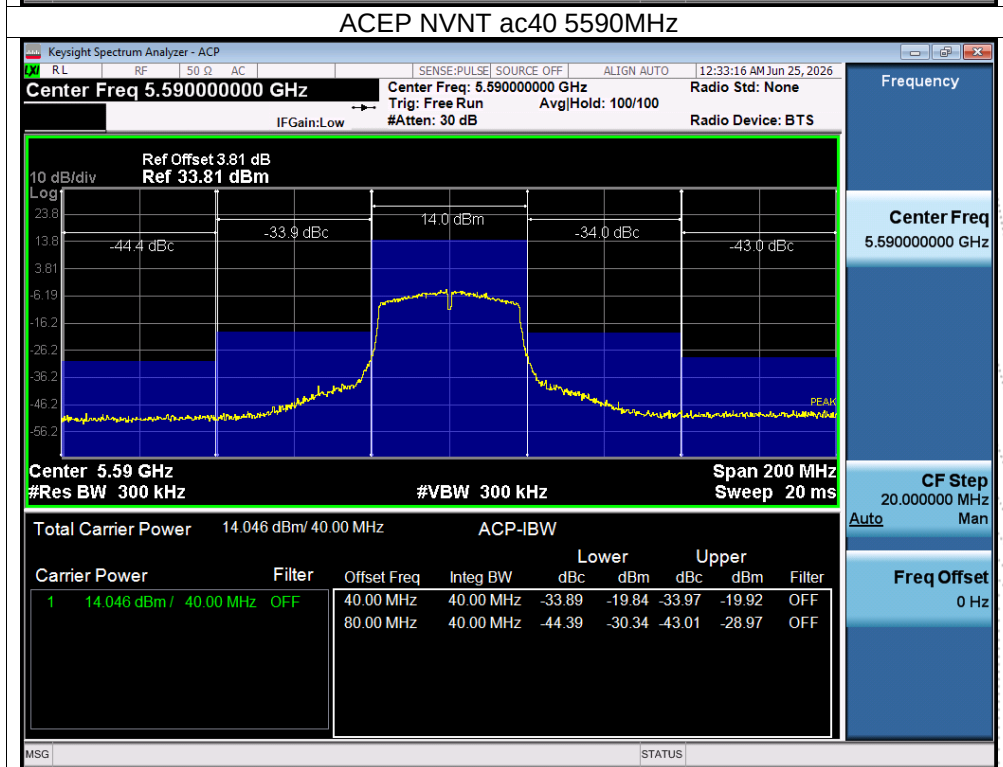
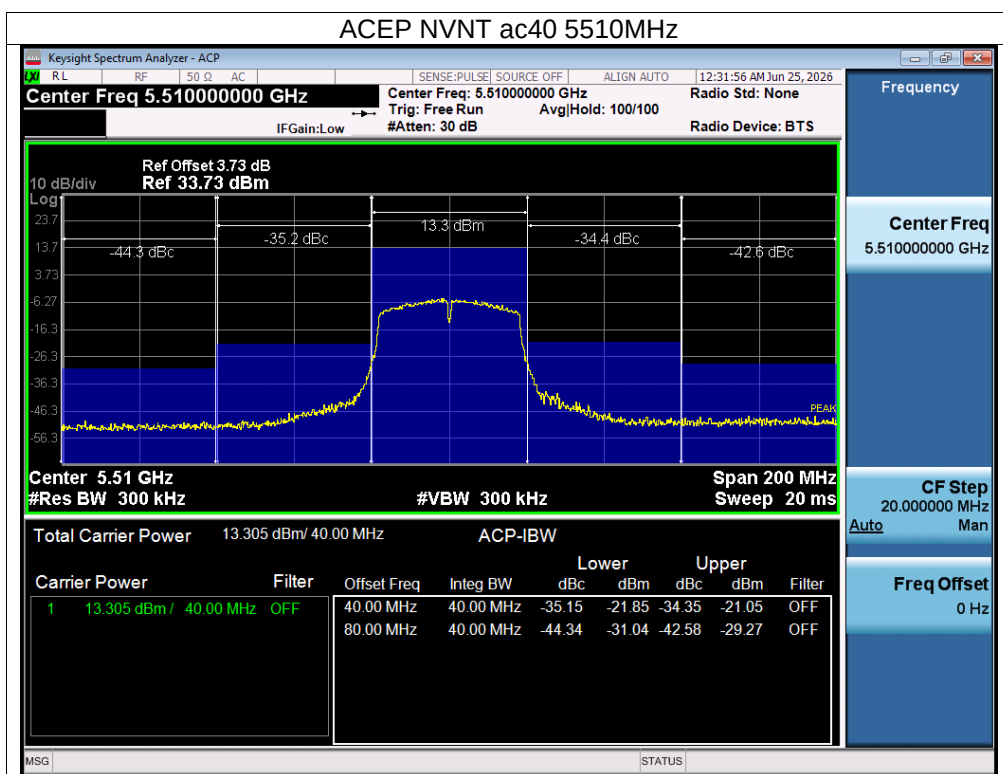


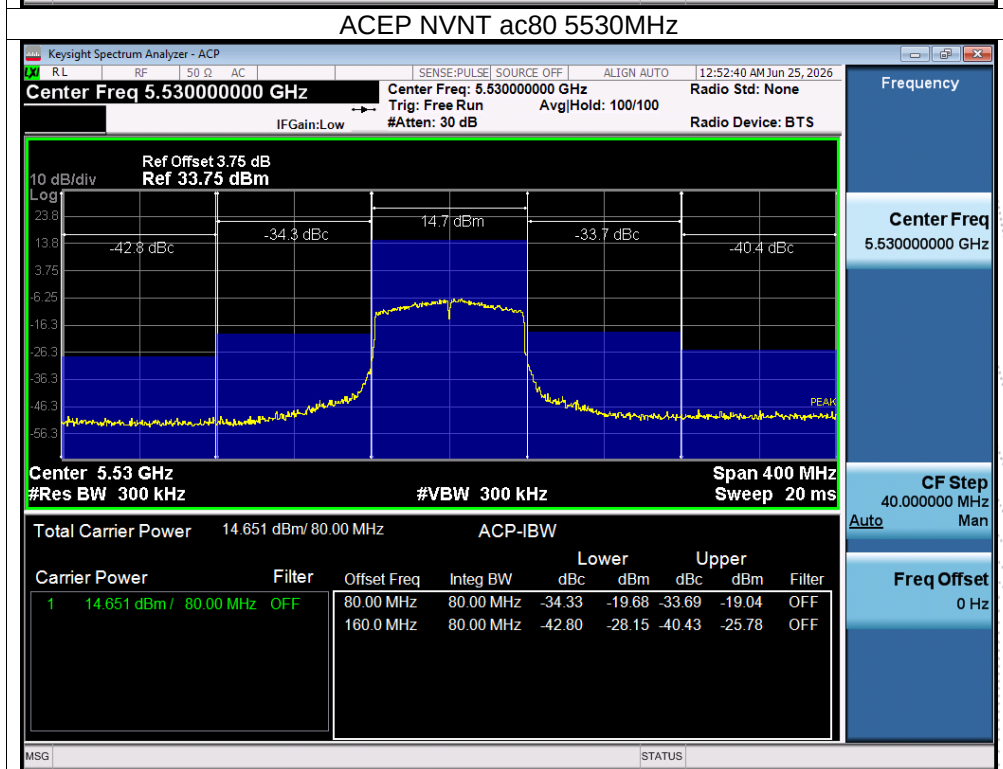
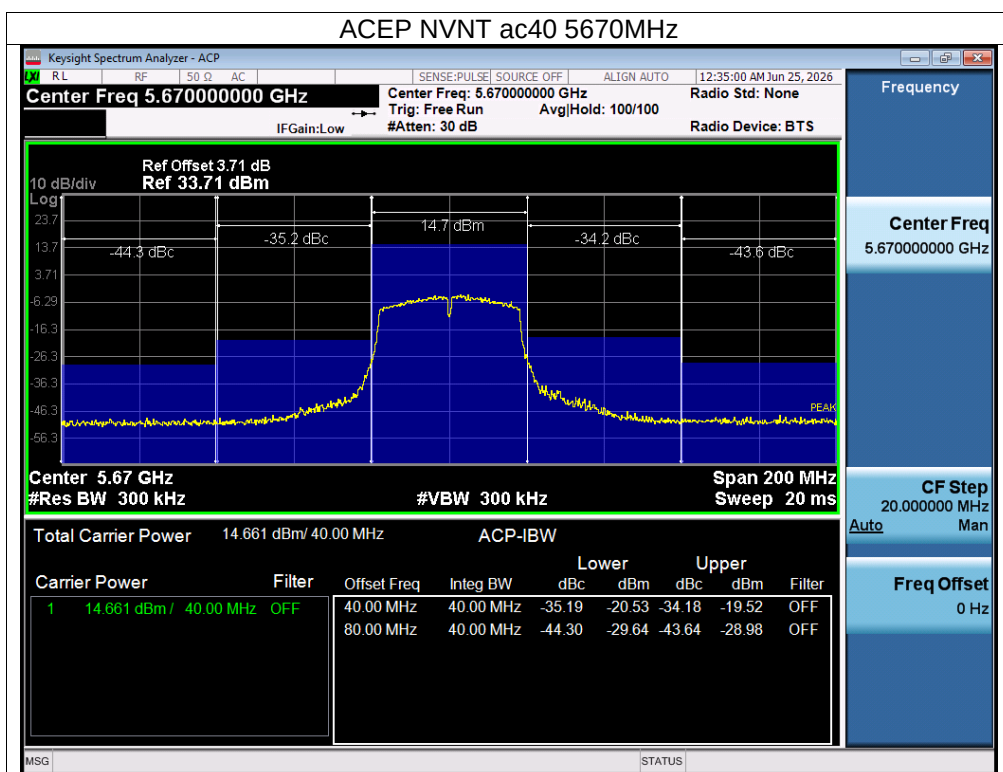


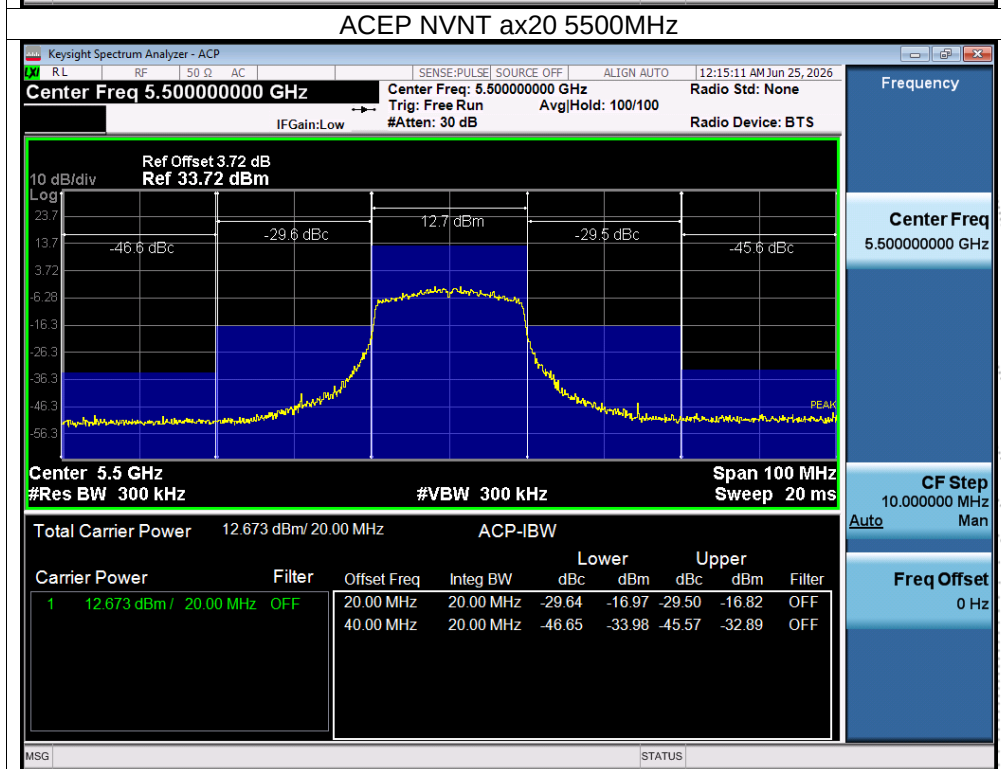
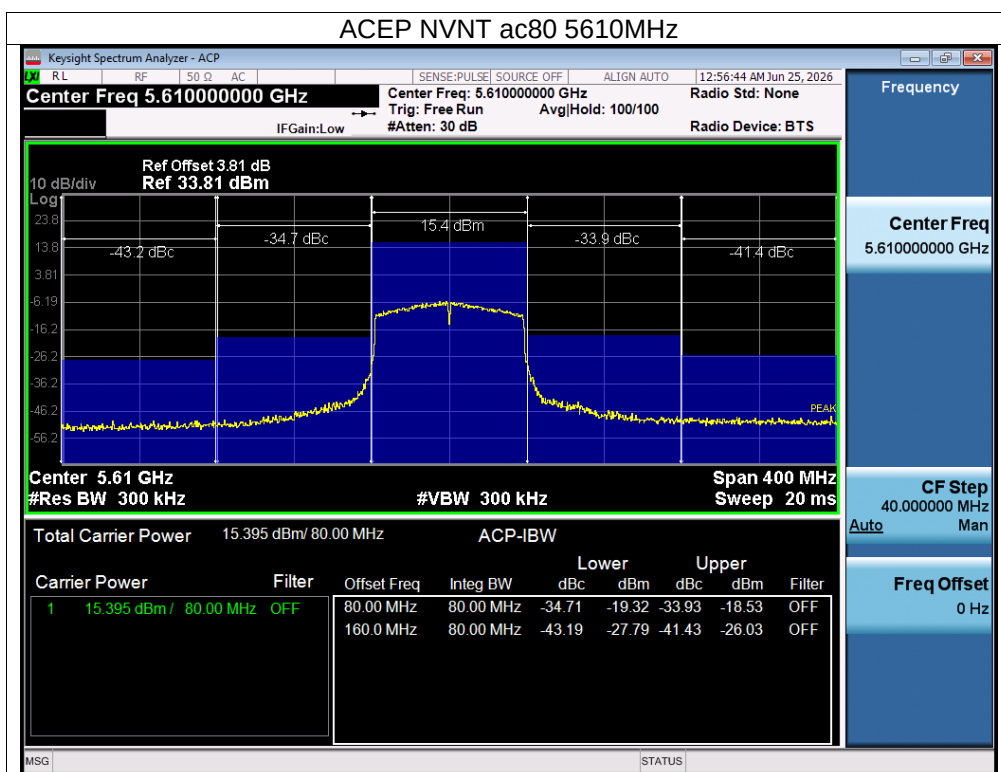


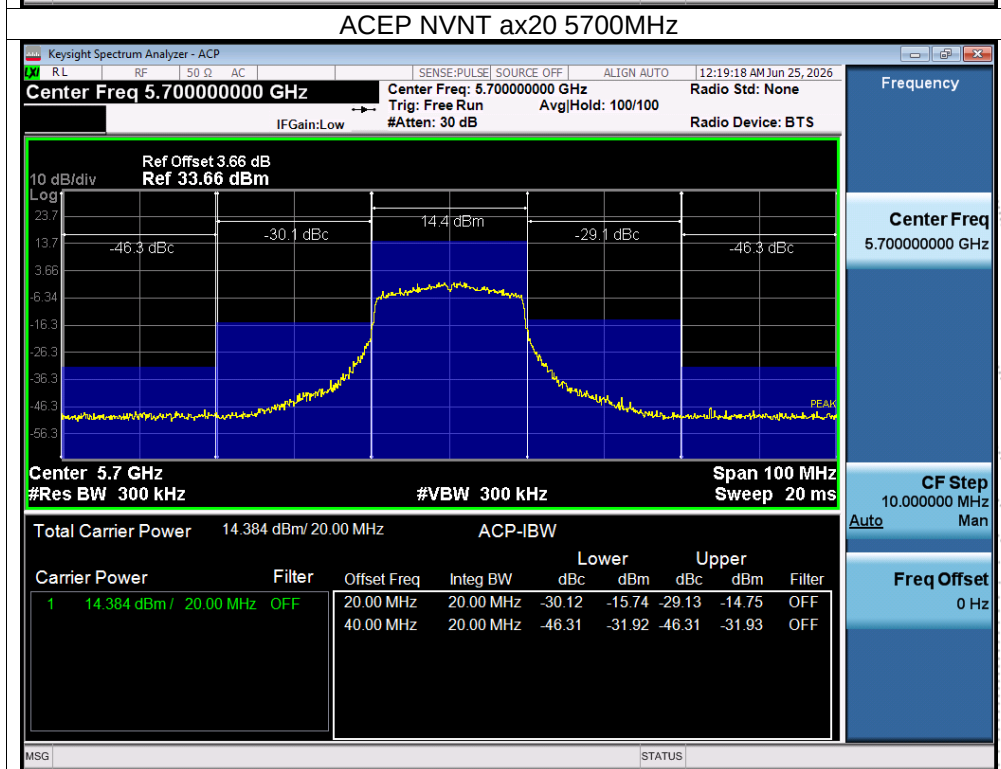
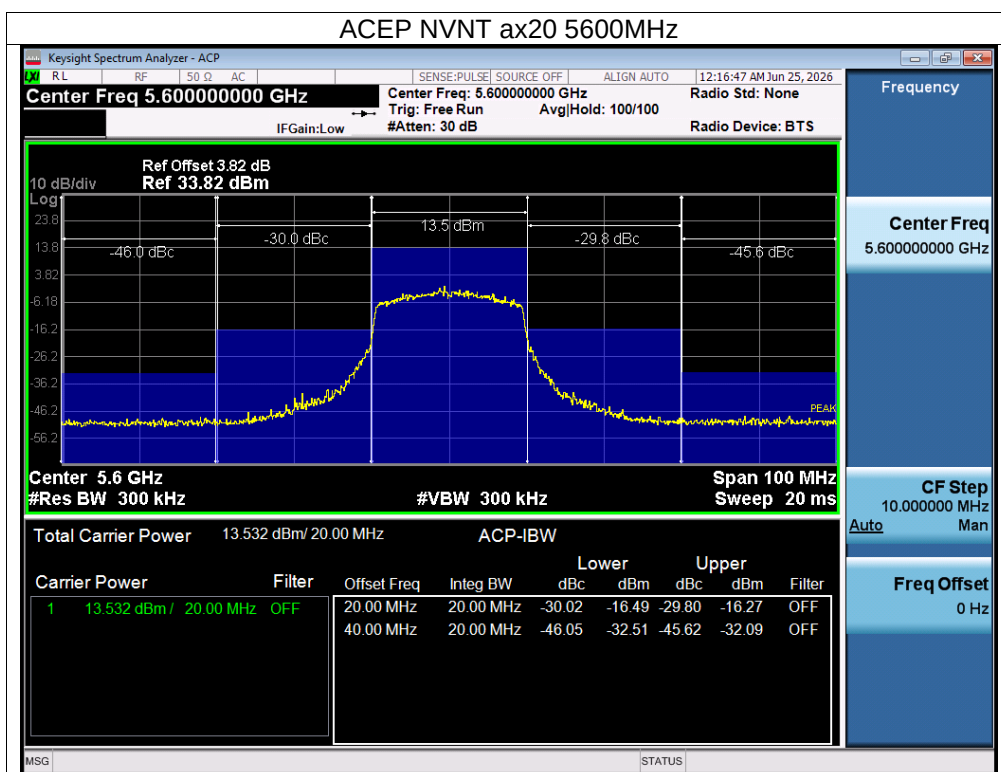


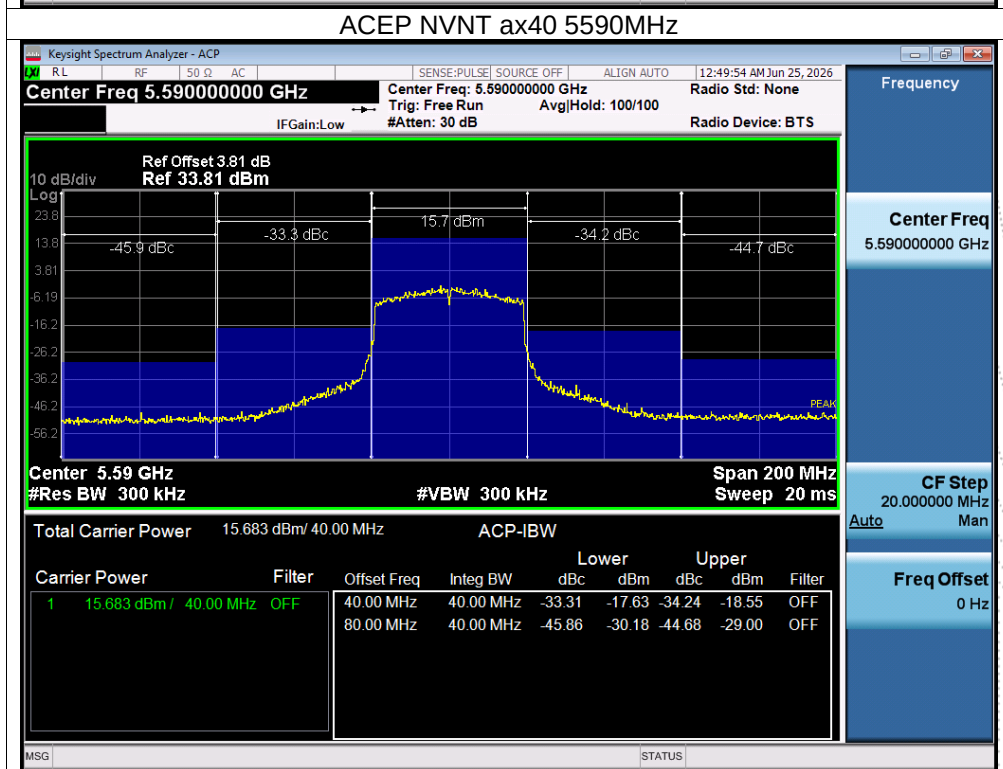
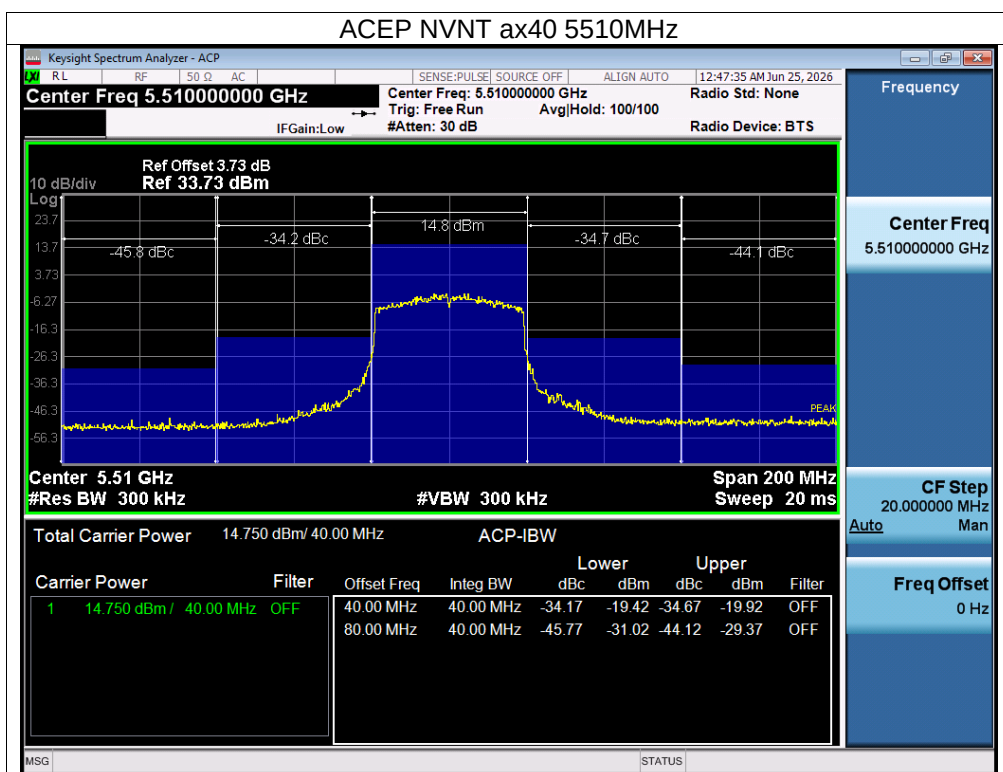


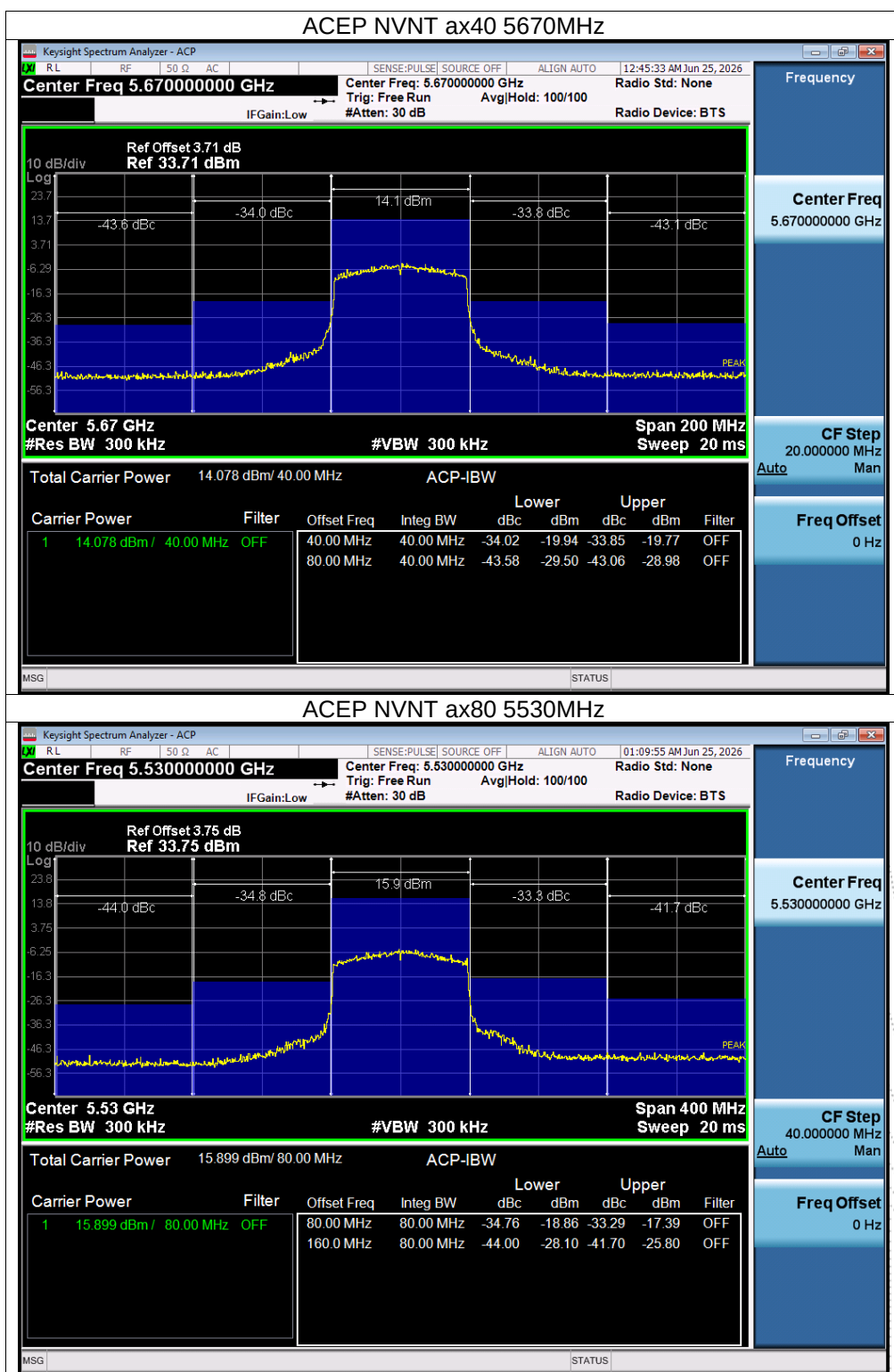


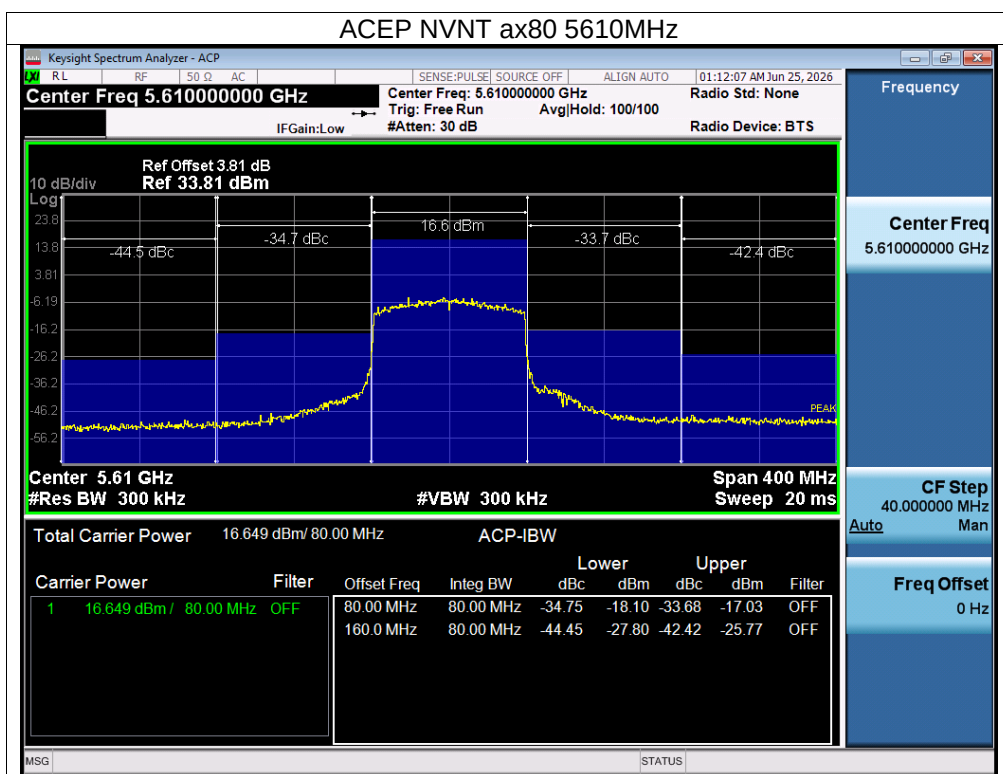












## 16. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

## 17. EUT Test Setup Photographs

### Measurement Photos



## STATEMENT

1. The equipment lists are traceable to the International System of Units (SI).
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC 17025:2017.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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Consultation E-mail: [bctc@bctc-lab.com.cn](mailto:bctc@bctc-lab.com.cn)

Complaint/Advice E-mail: [advice@bctc-lab.com.cn](mailto:advice@bctc-lab.com.cn)

\*\*\*\*\* END \*\*\*\*\*