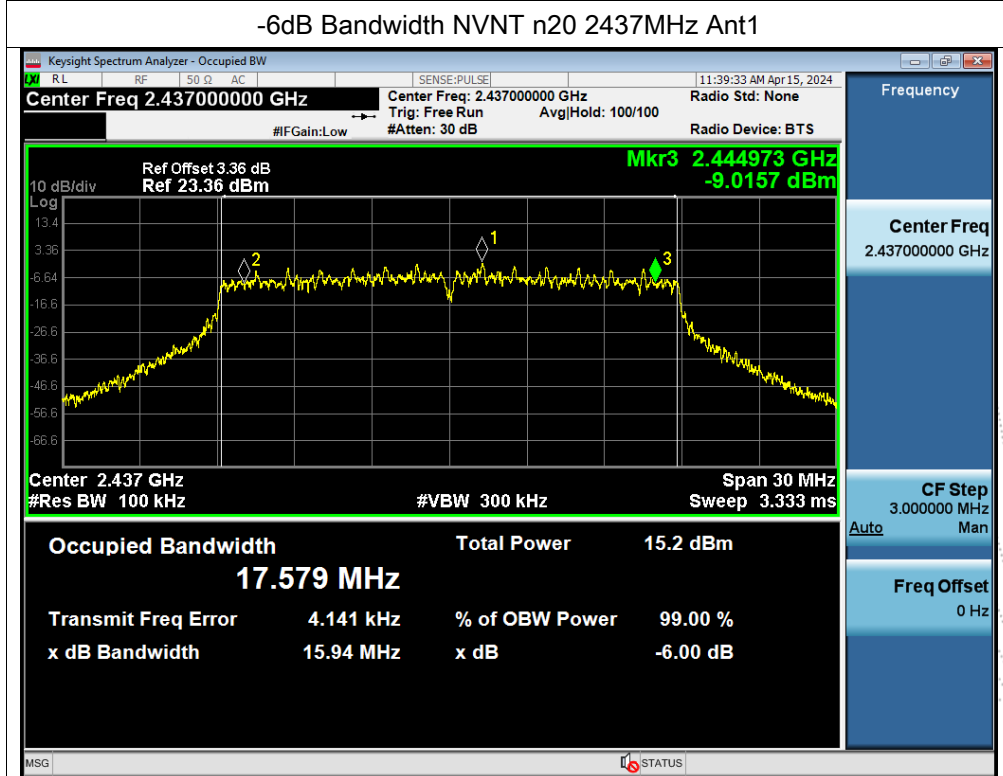
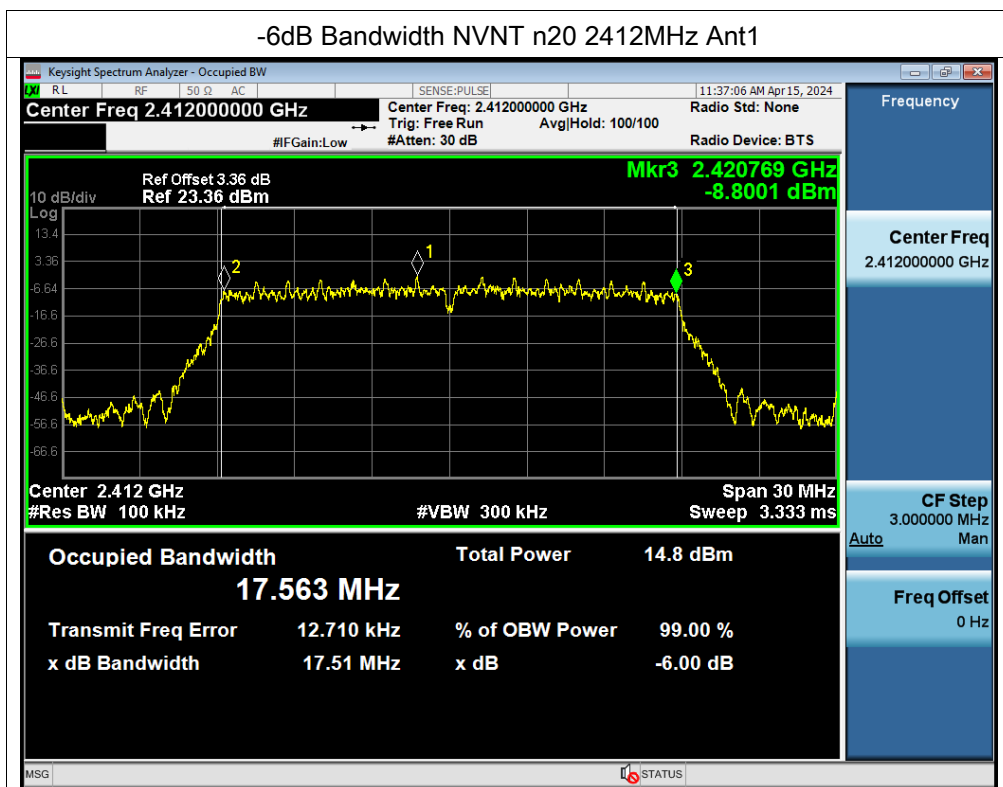
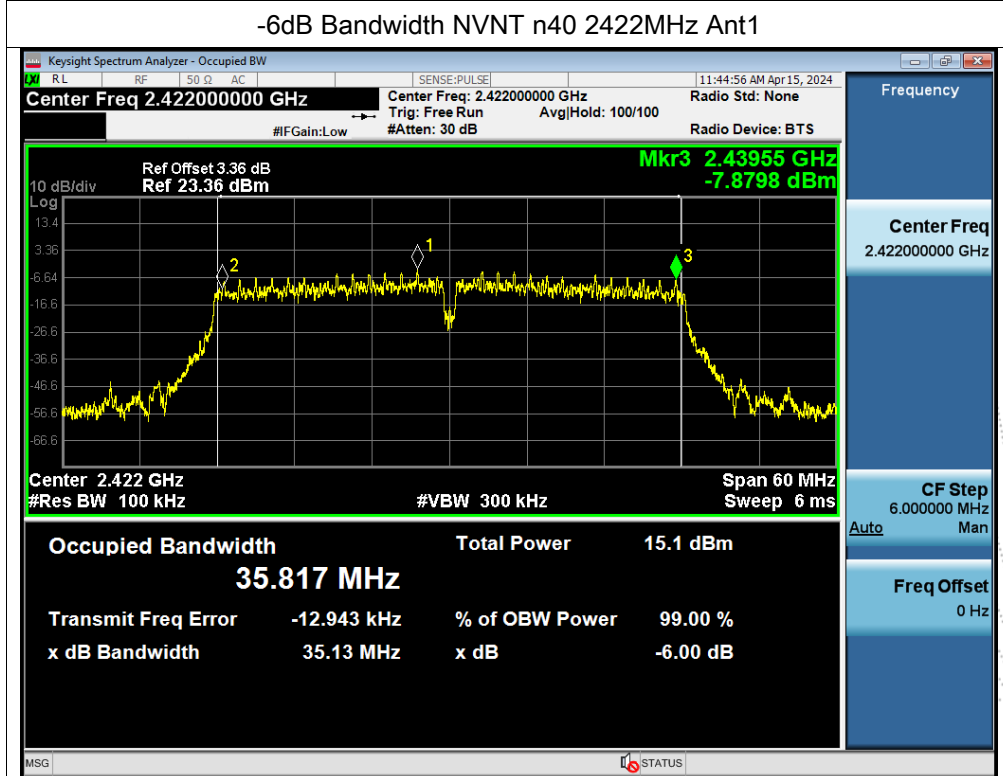
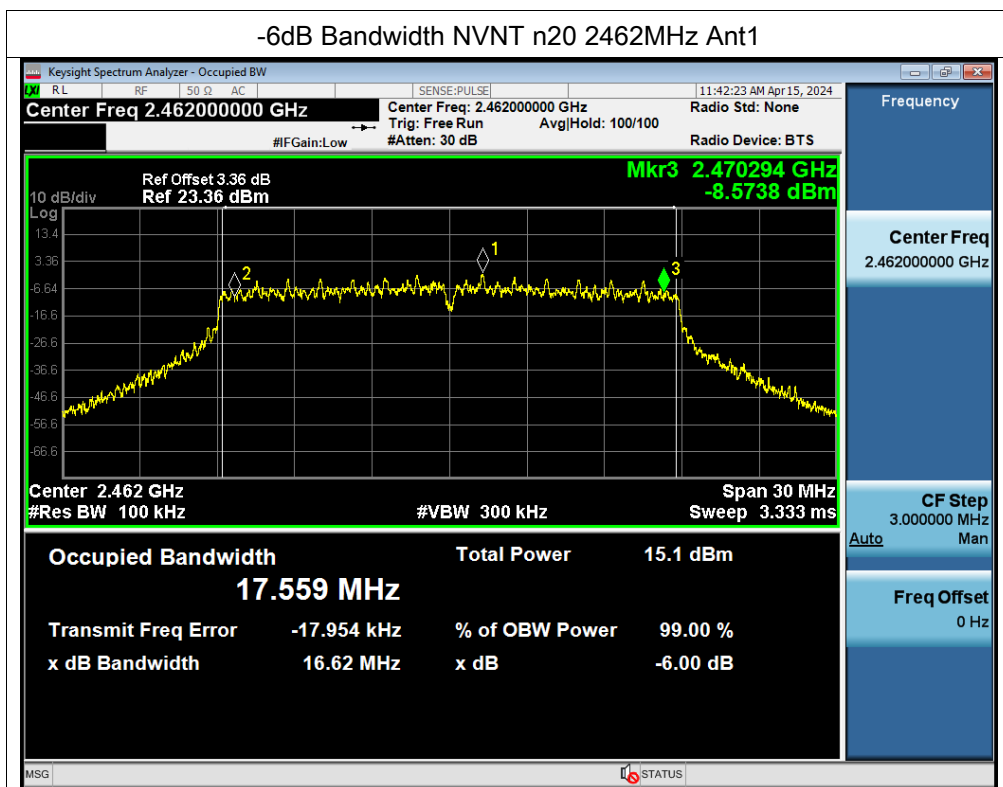
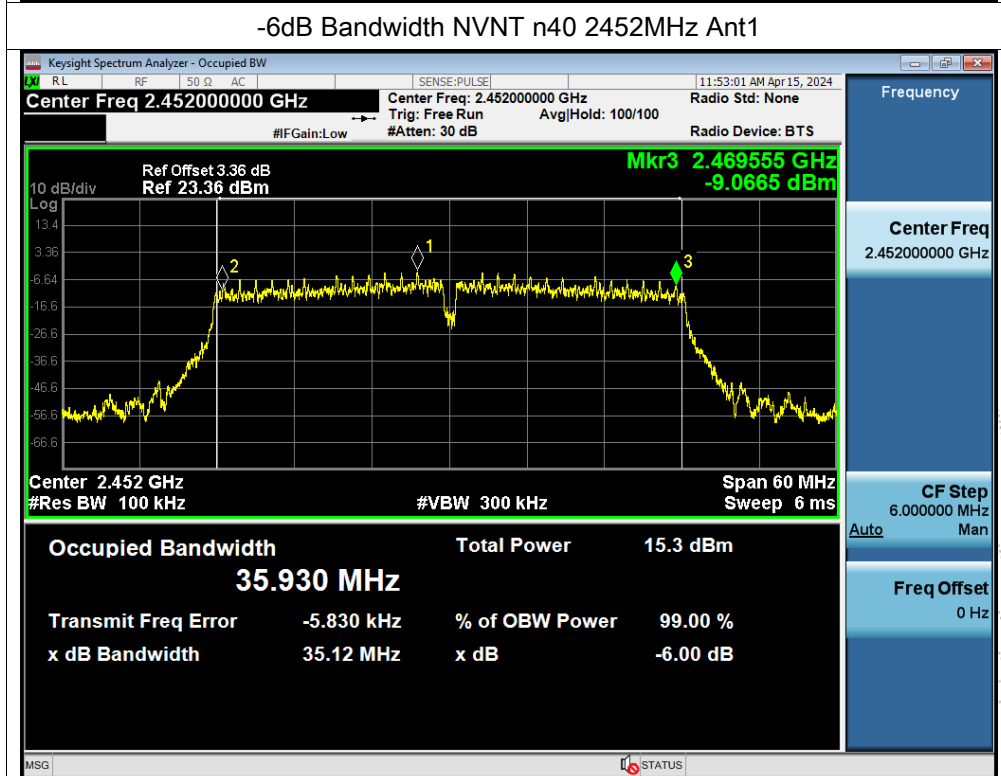
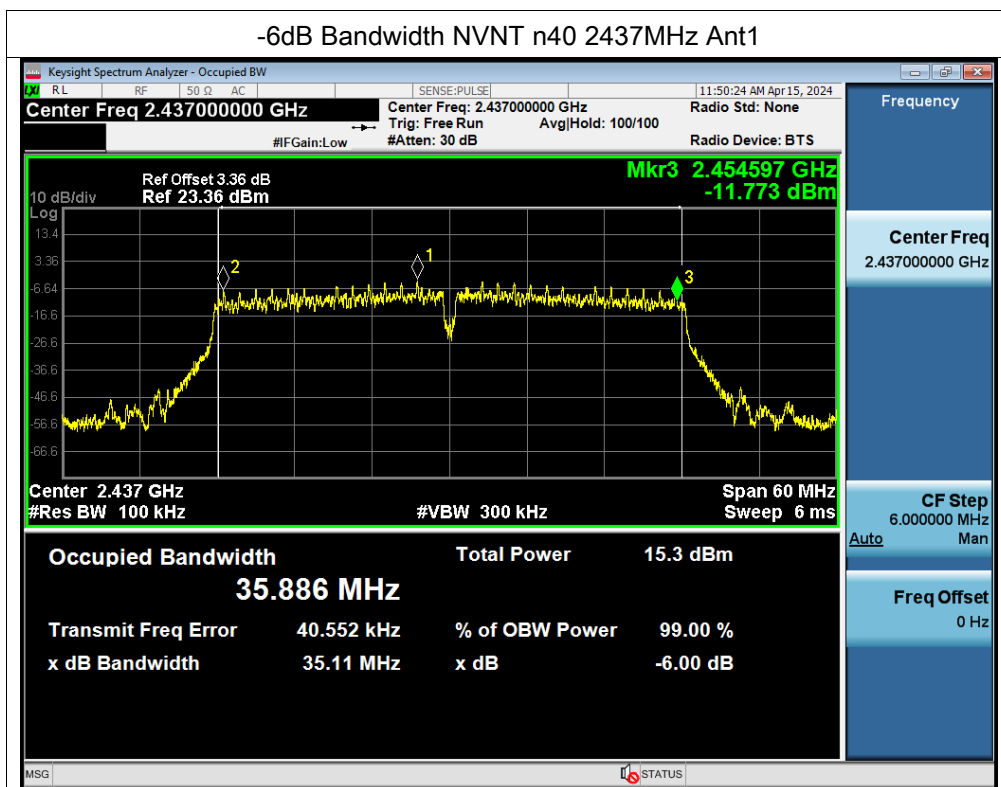
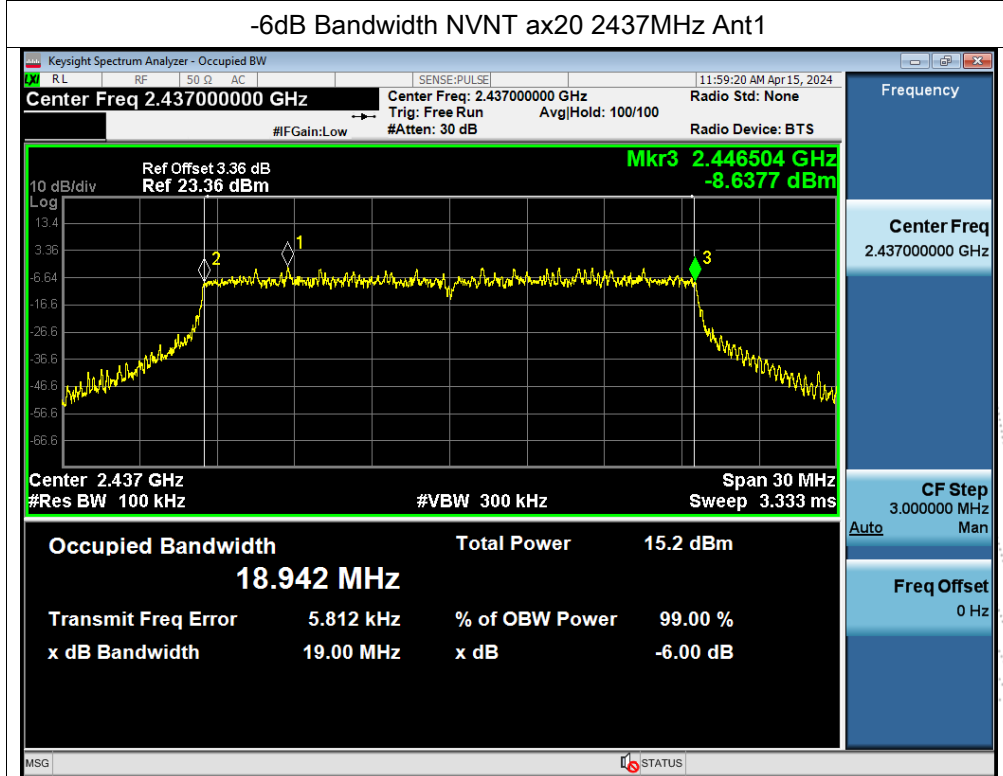
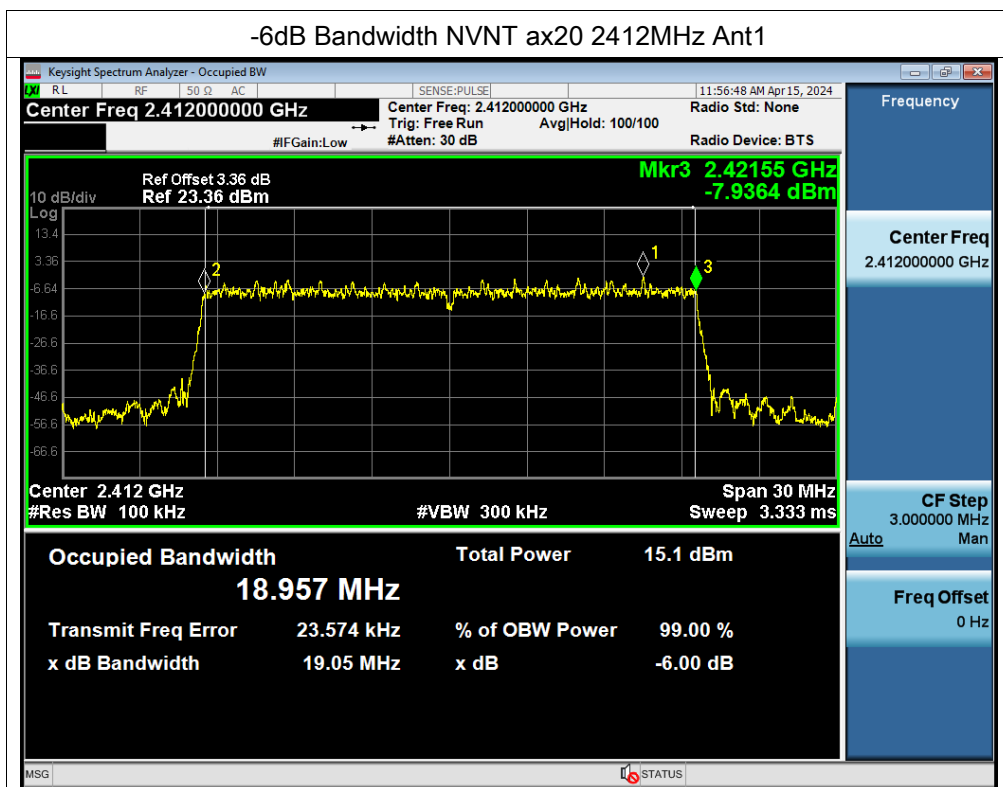
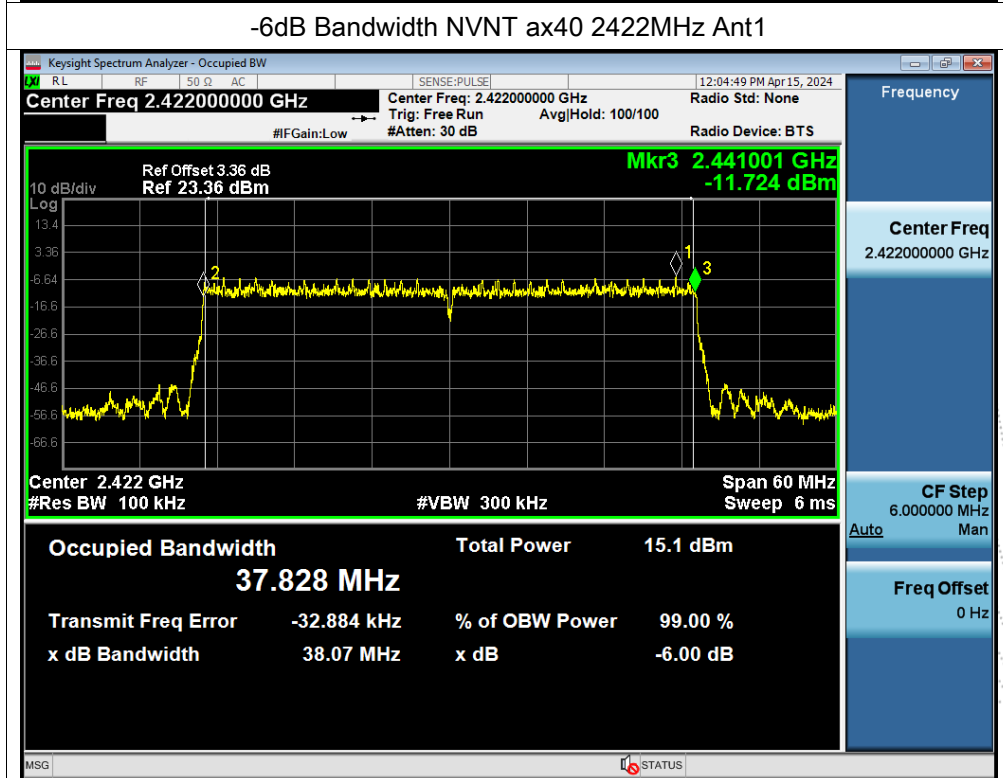
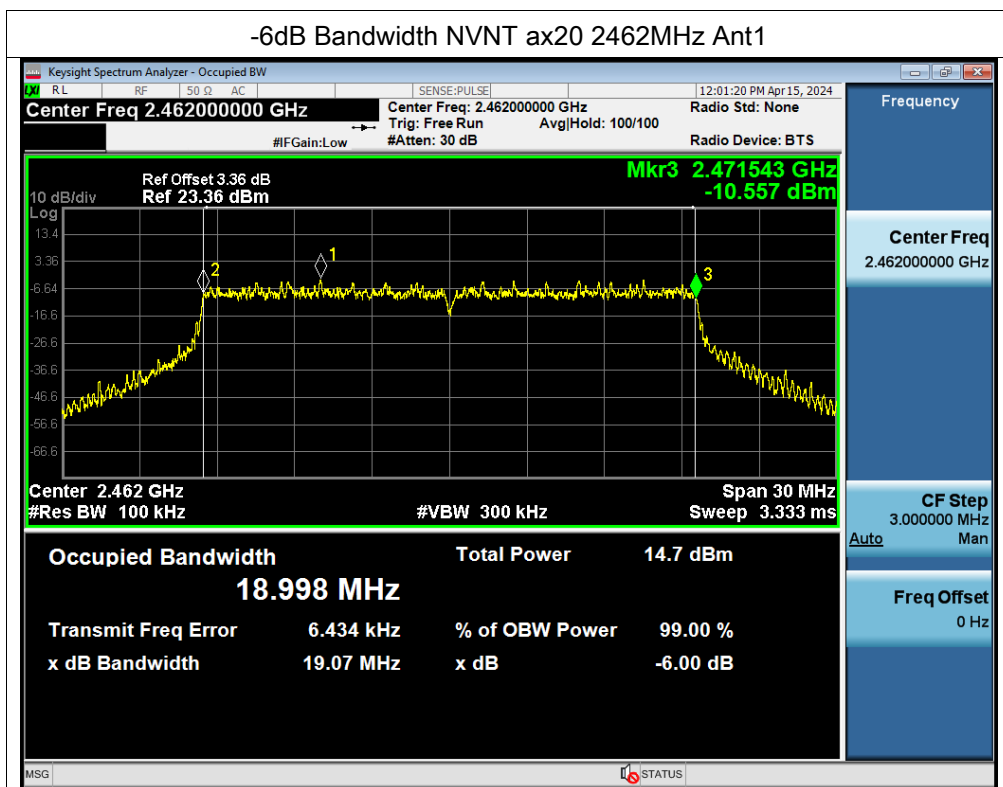


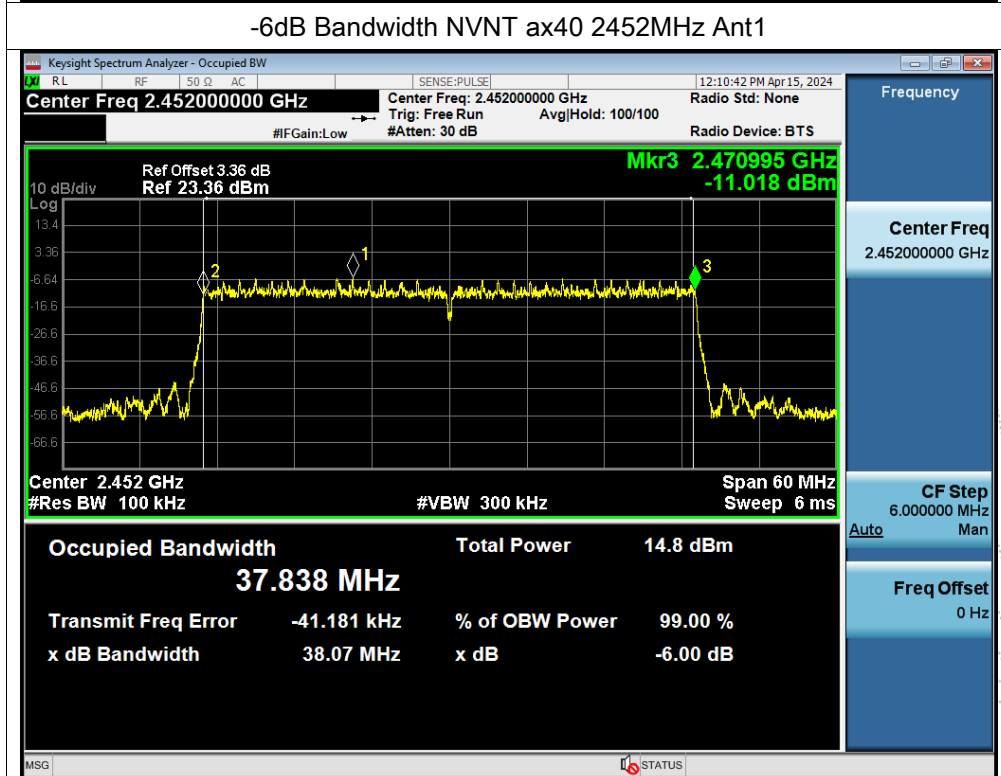
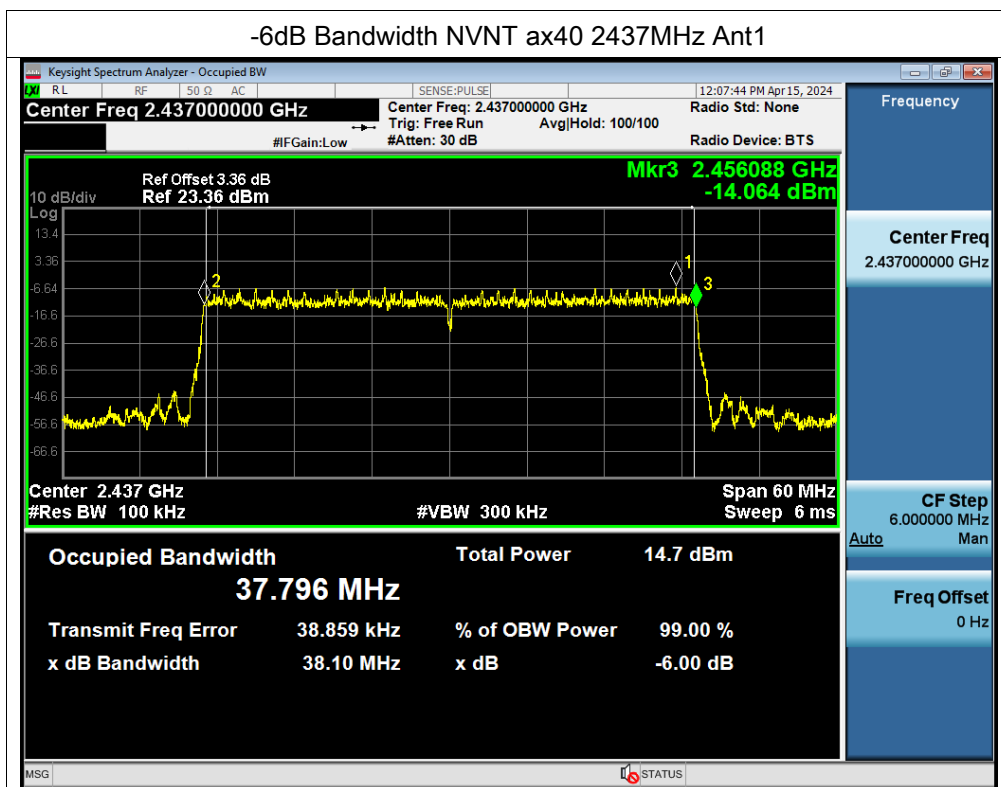










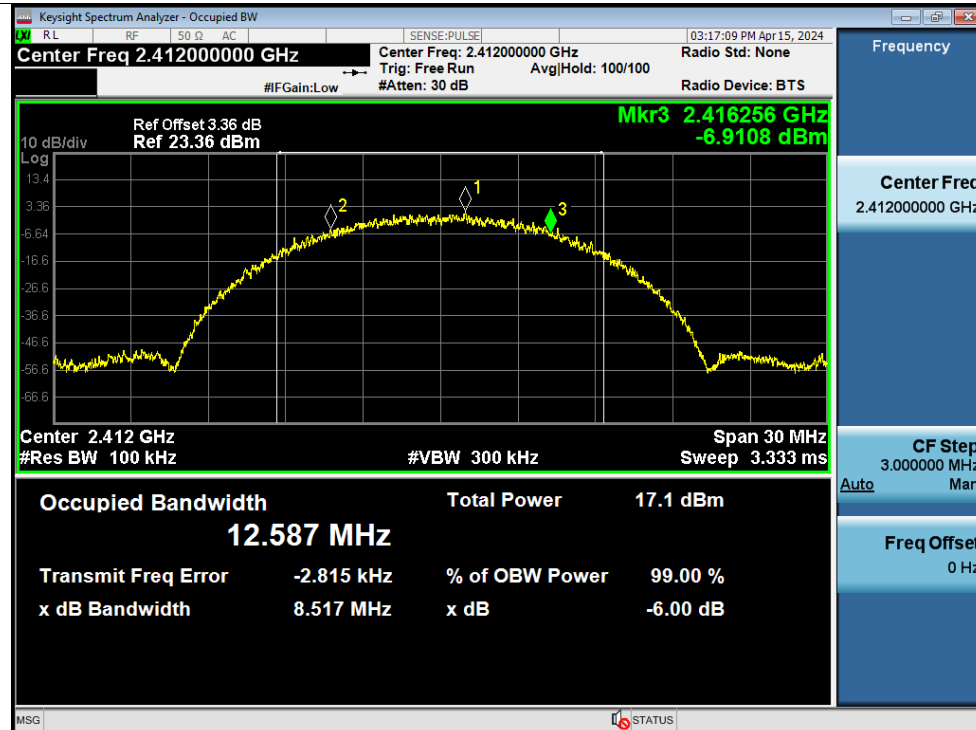




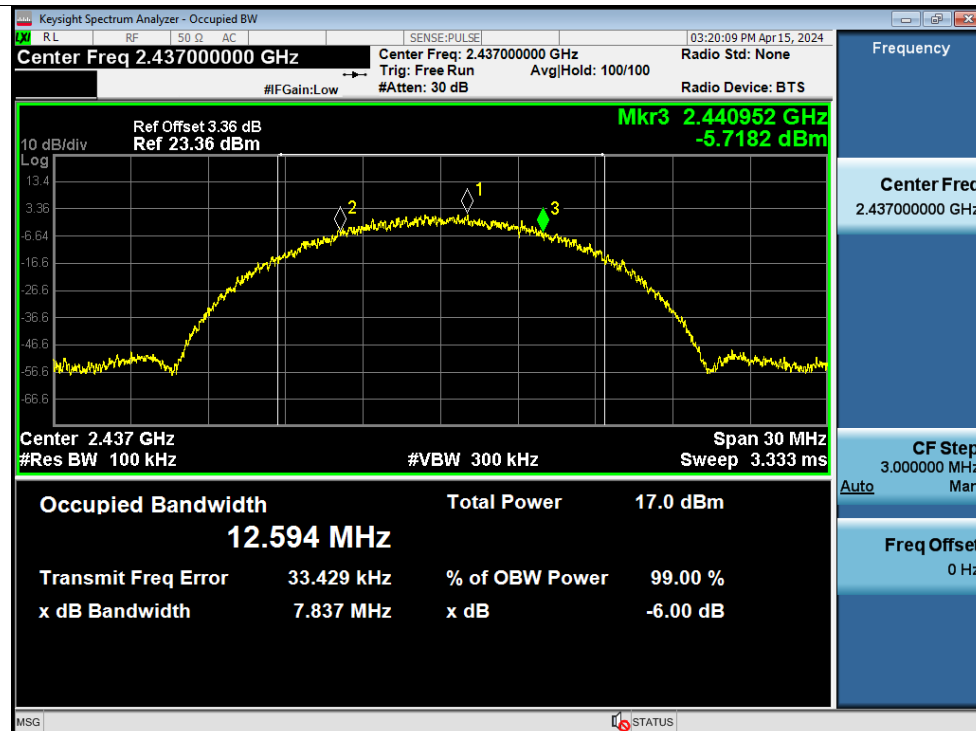
Ant B

Test Graphs

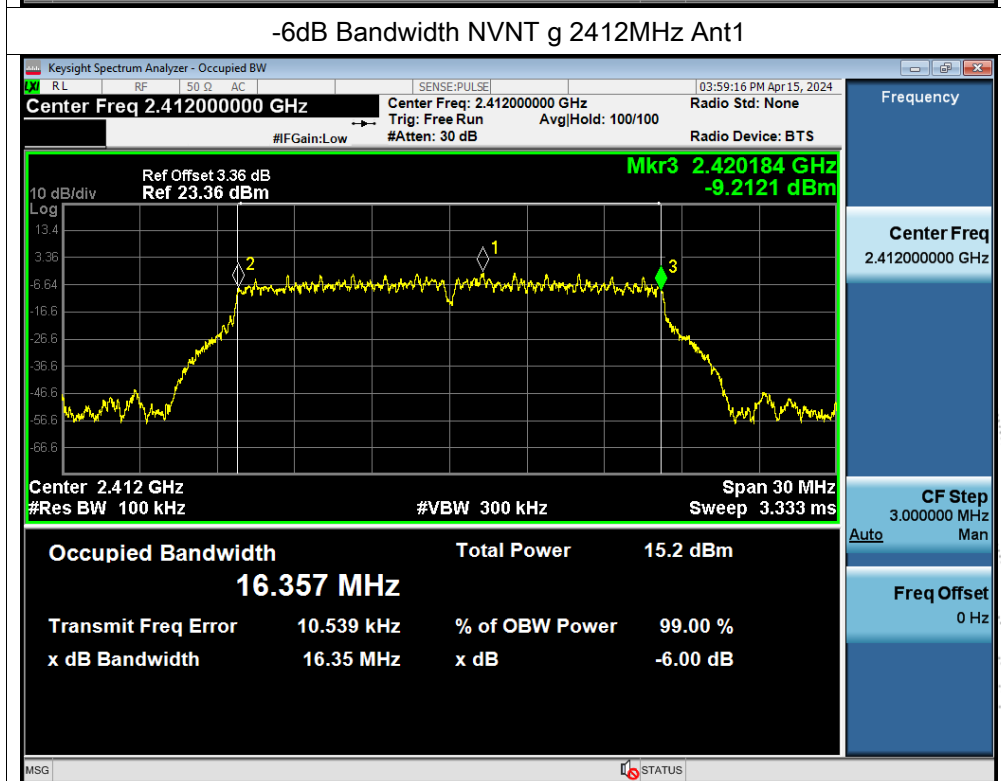
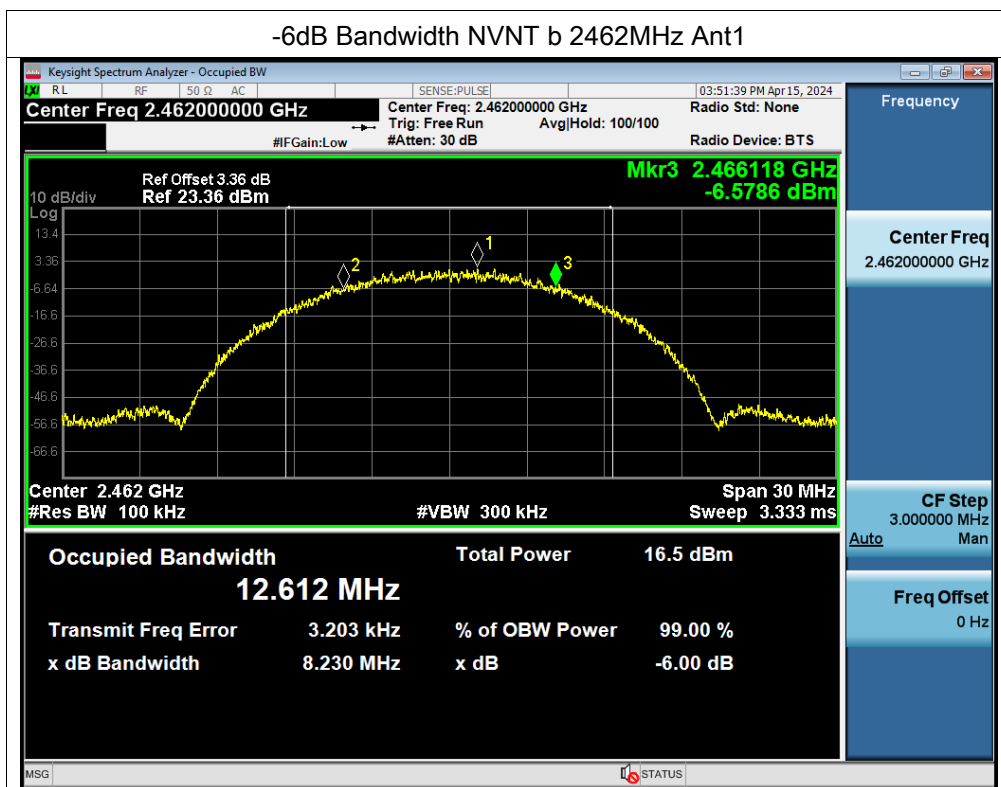
-6dB Bandwidth NVNT b 2412MHz Ant1



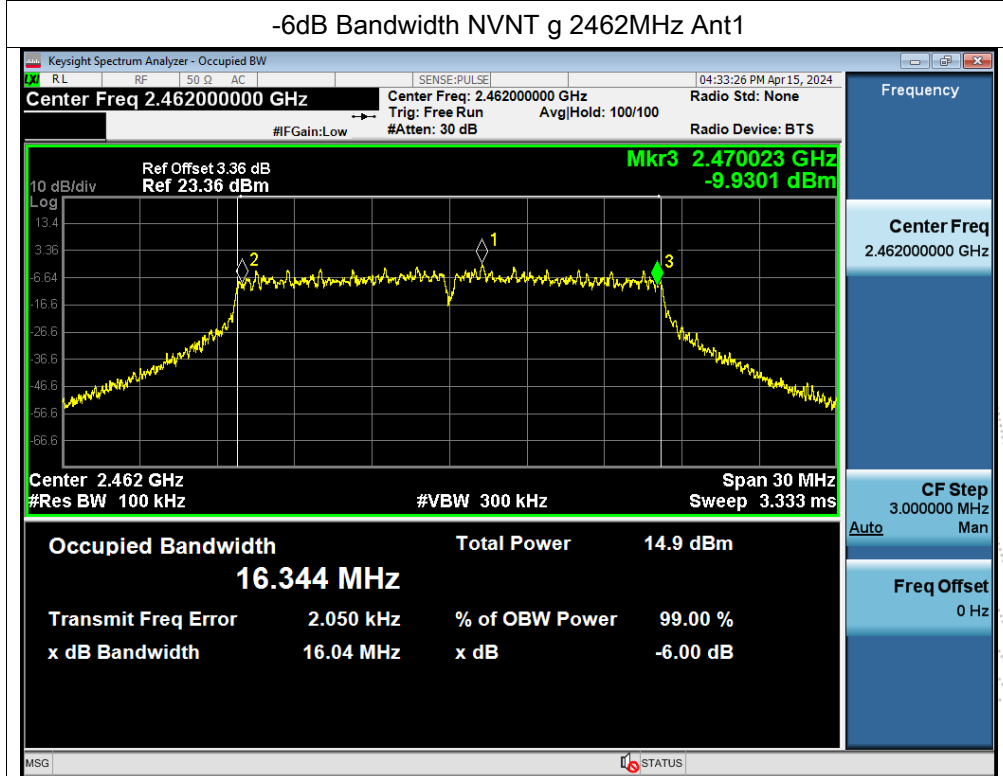
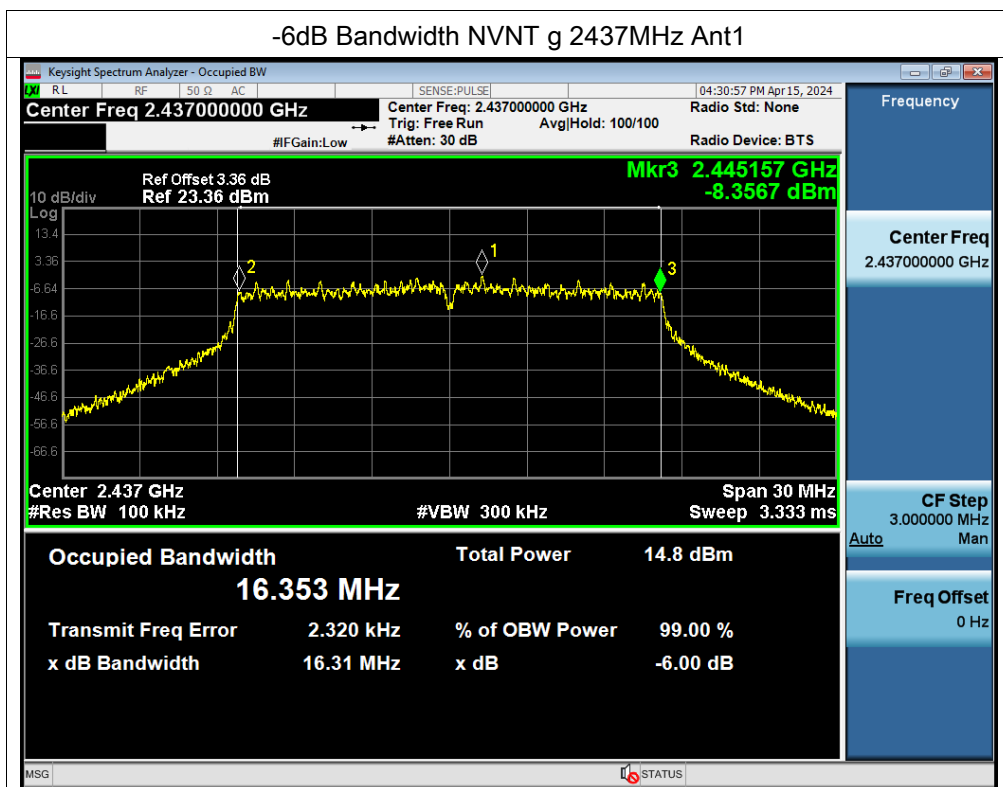
-6dB Bandwidth NVNT b 2437MHz Ant1

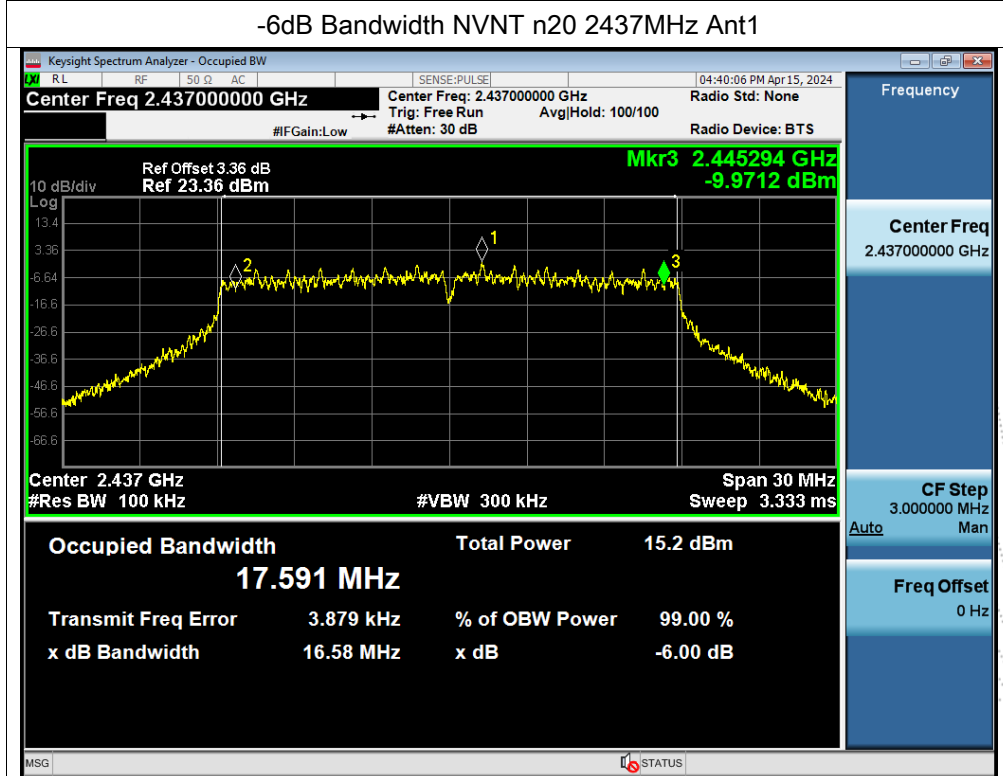
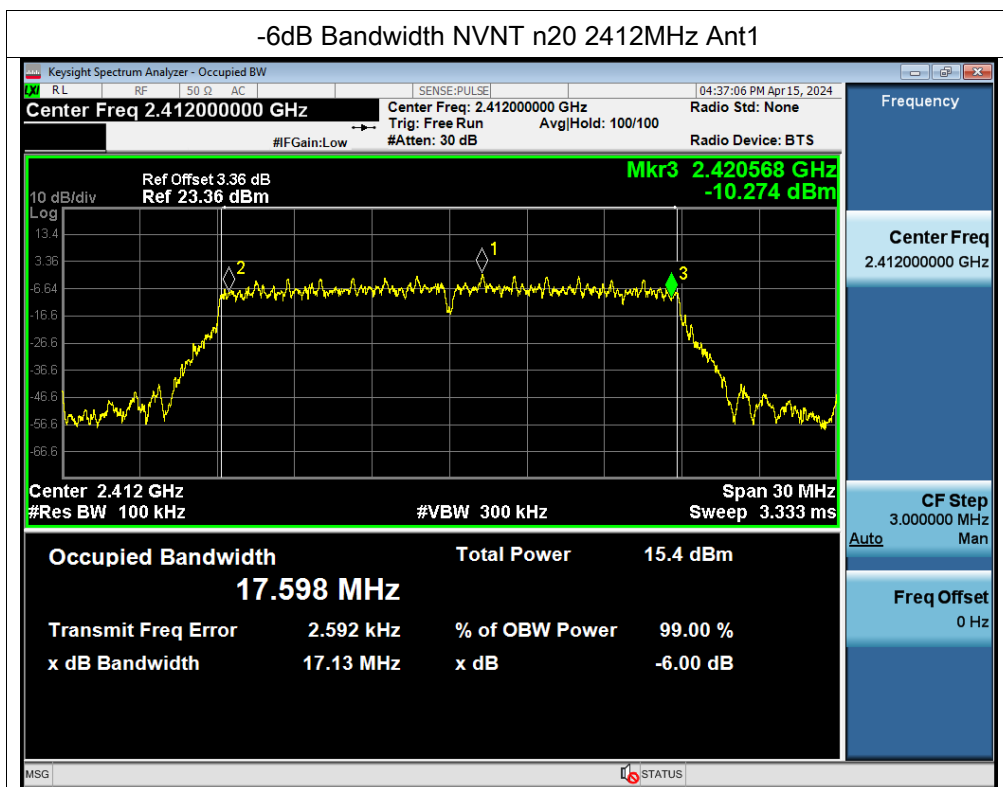


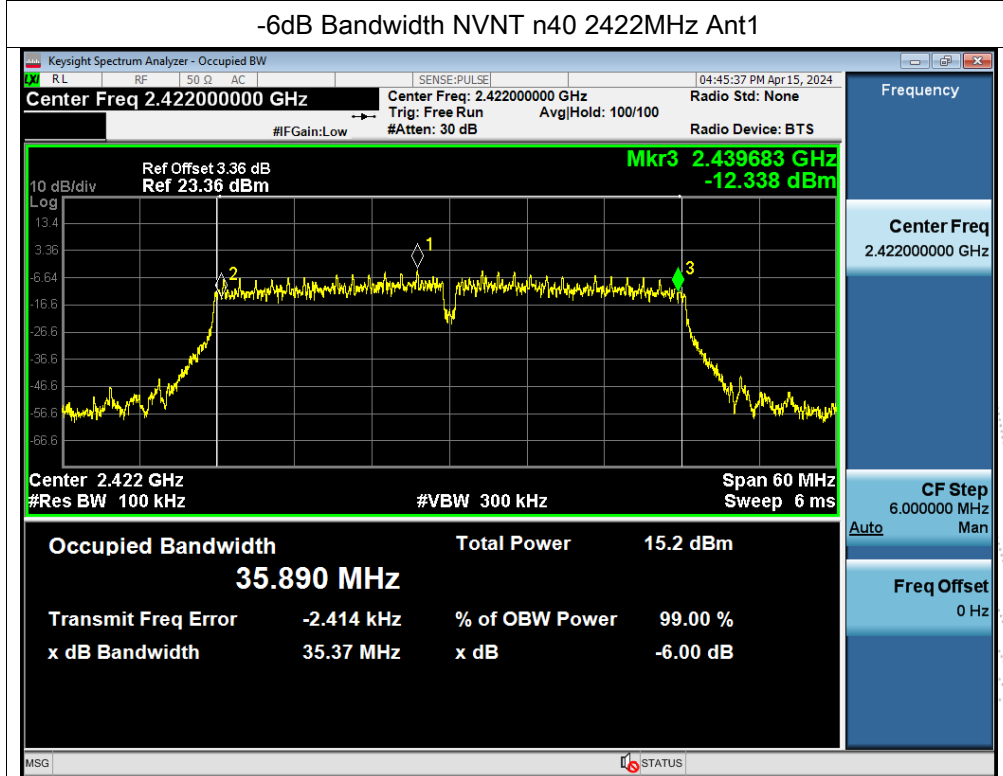
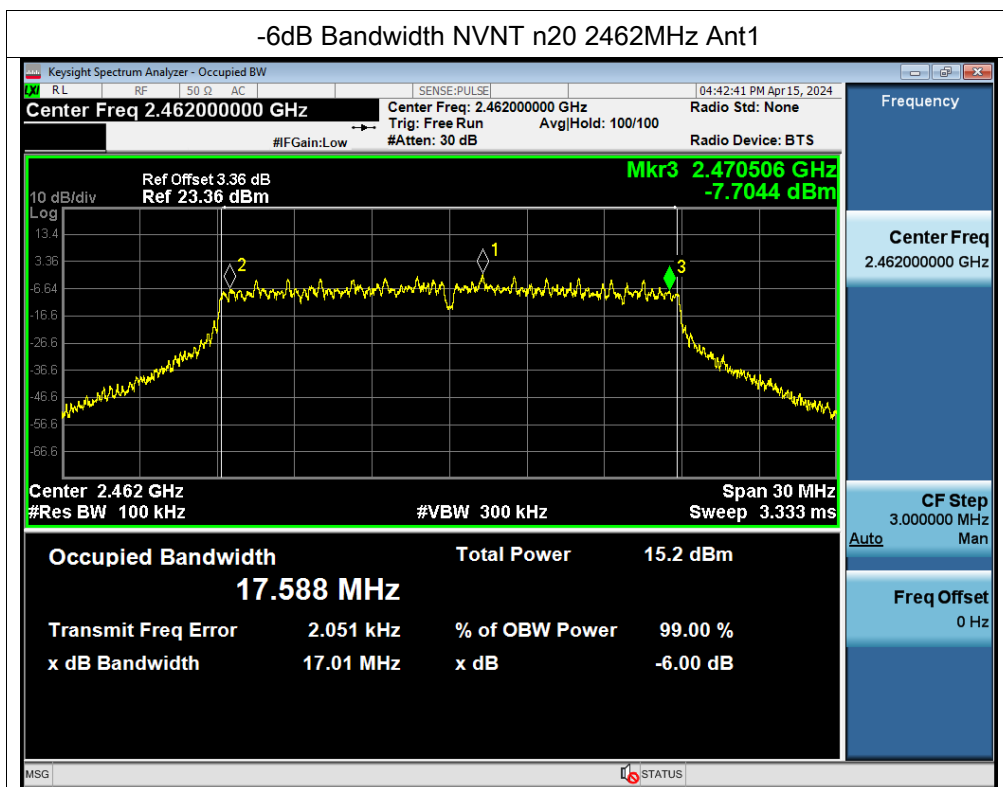


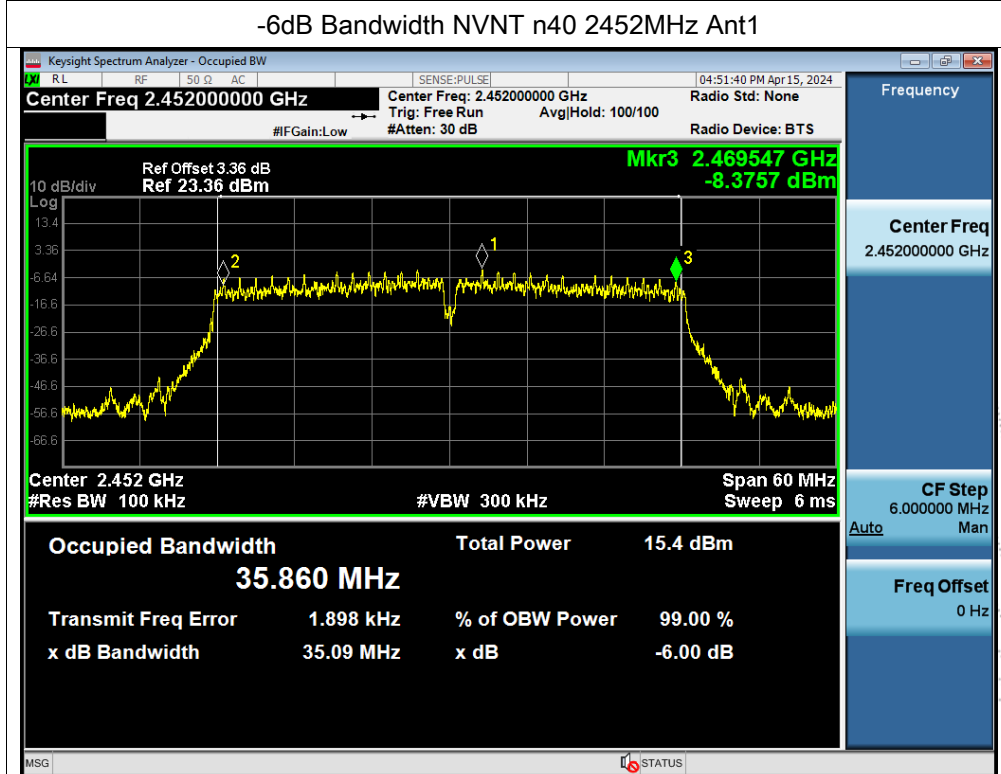
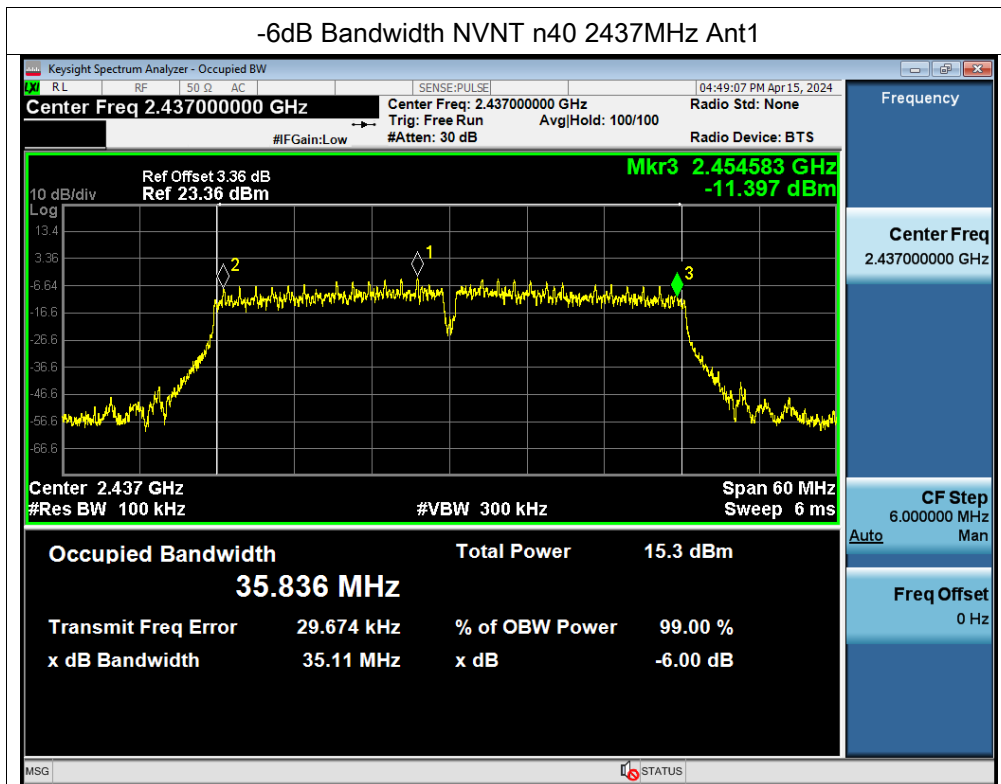


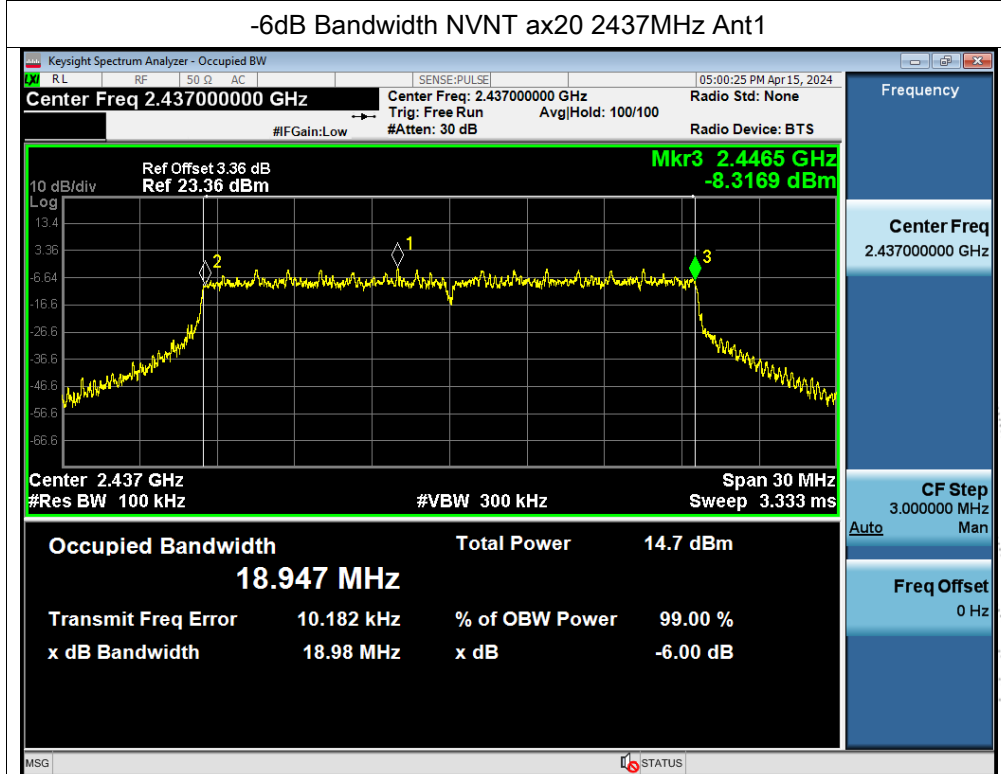
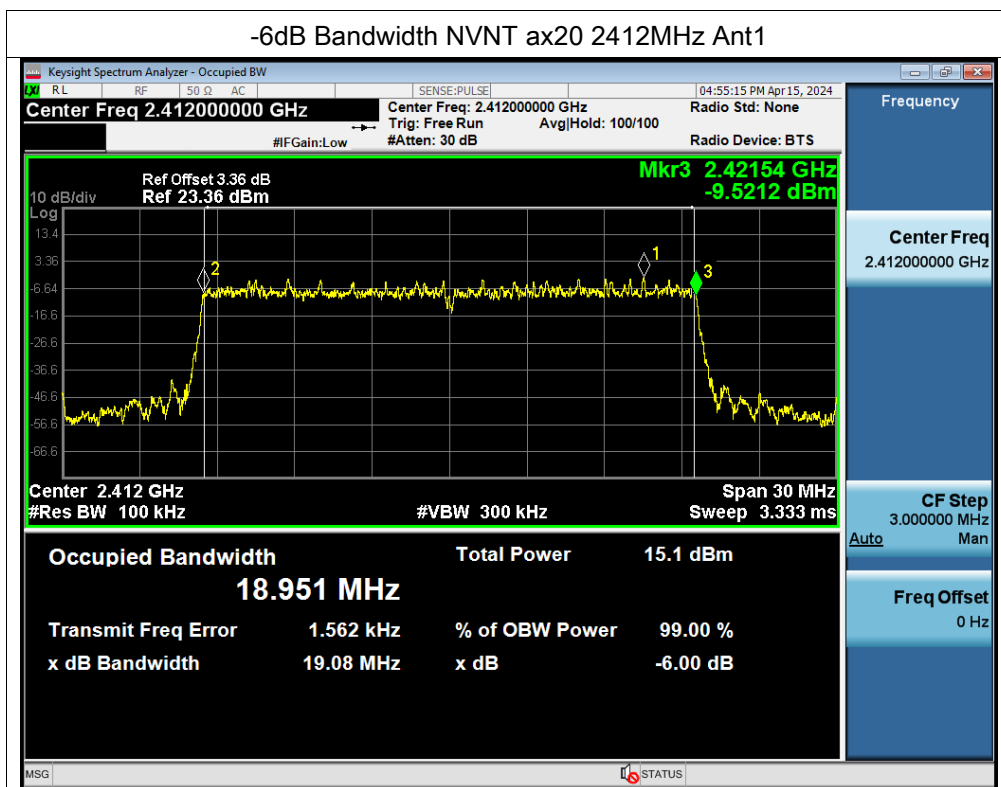


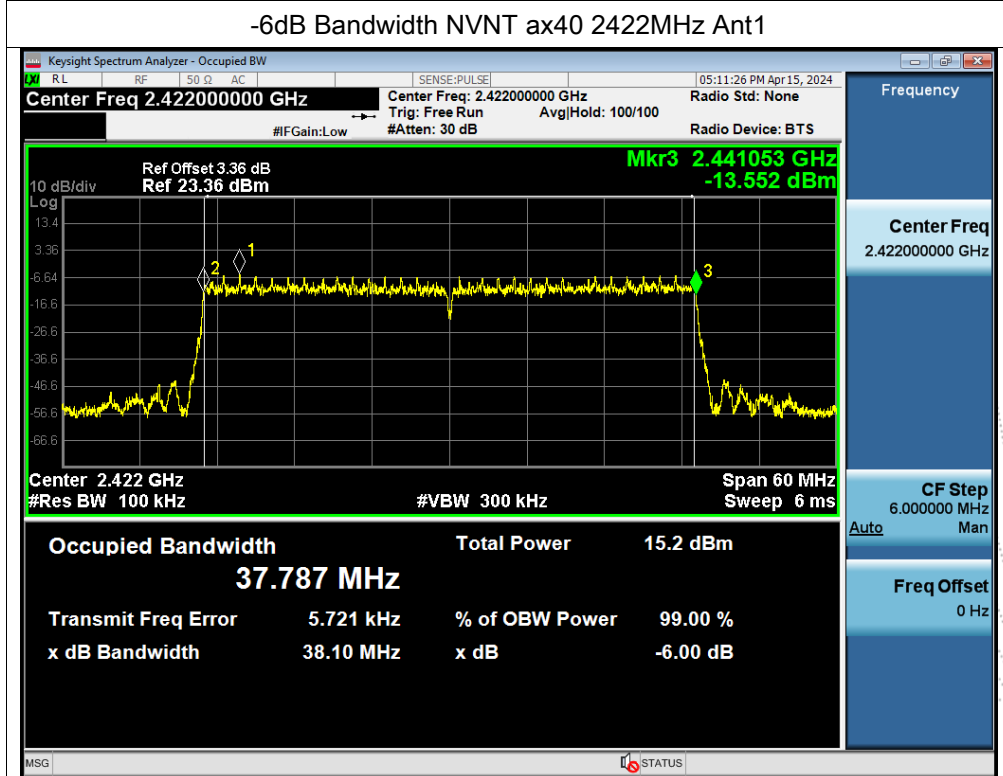
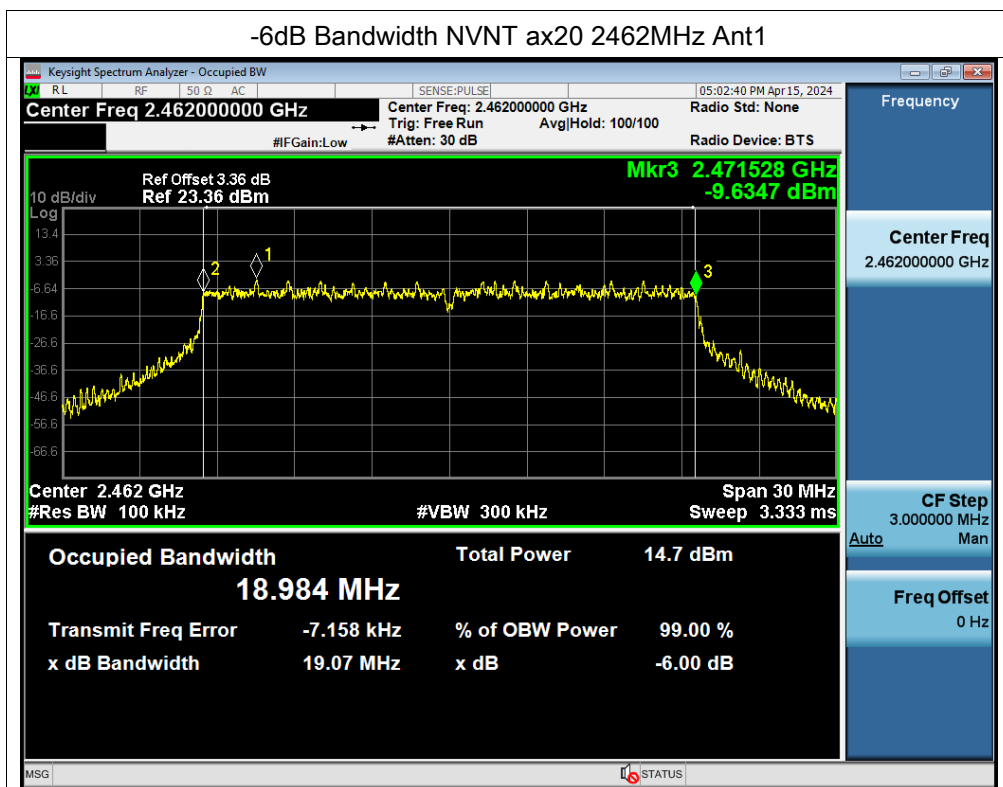


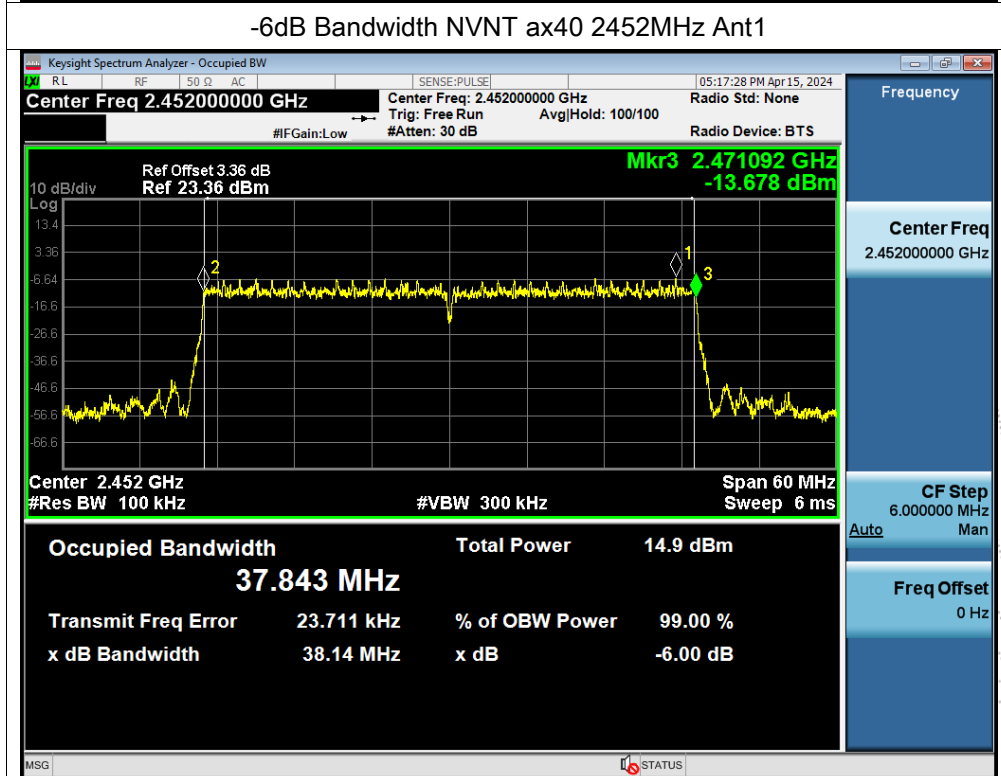
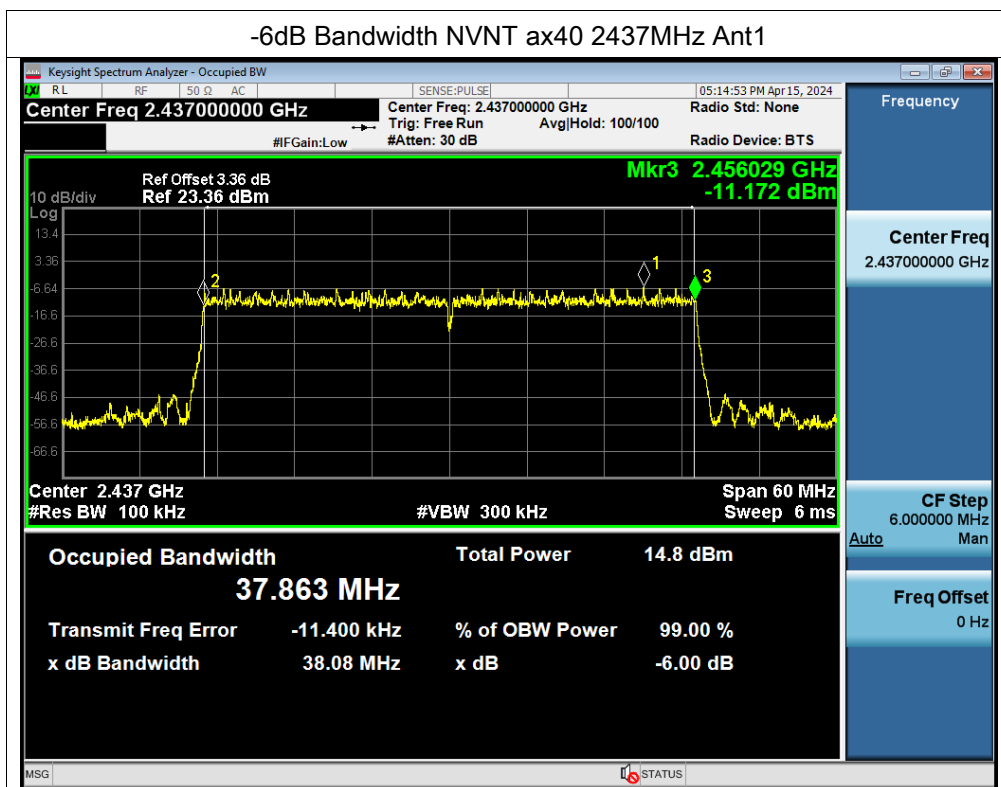














## 11. Peak Output Power Test

### 11.1 Block Diagram Of Test Setup



### 11.2 Limit

| FCC Part15 (15.247) , Subpart C |                   |                 |                       |        |
|---------------------------------|-------------------|-----------------|-----------------------|--------|
| Section                         | Test Item         | Limit           | Frequency Range (MHz) | Result |
| 15.247(b)(3)                    | Peak Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

### 11.3 Test Procedure

- a. The EUT was directly connected to the Power meter

### 11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

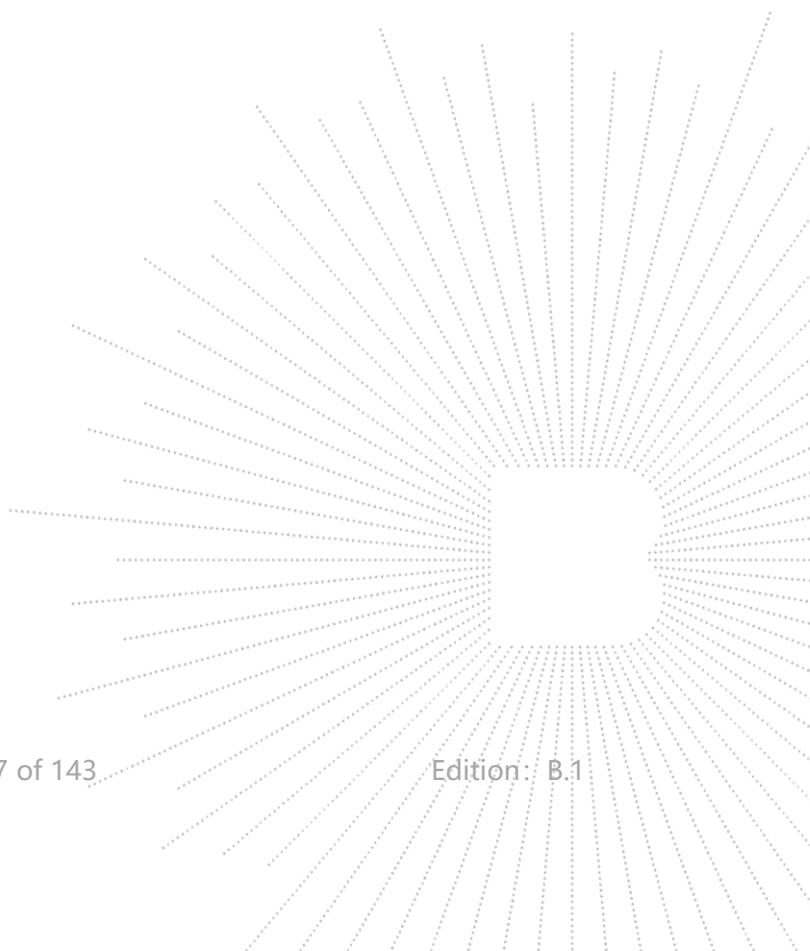
## 11.5 Test Result

|              |        |                    |        |
|--------------|--------|--------------------|--------|
| Temperature: | 26℃    | Relative Humidity: | 54%    |
| Pressure:    | 101KPa | Test Voltage:      | DC 12V |

| Test Mode  | Frequency(MHz) | Ant A<br>Maximum Conducted<br>Output Power(PK)<br>(dBm) | Ant B<br>Maximum Conducted<br>Output Power(PK)<br>(dBm) | Limit (dBm) |
|------------|----------------|---------------------------------------------------------|---------------------------------------------------------|-------------|
| 802.11b    | 2412           | 13.66                                                   | 13.99                                                   | 30          |
|            | 2437           | 13.35                                                   | 13.87                                                   | 30          |
|            | 2462           | 13.43                                                   | 13.28                                                   | 30          |
| 802.11g    | 2412           | 13.56                                                   | 13.57                                                   | 30          |
|            | 2437           | 13.2                                                    | 13.27                                                   | 30          |
|            | 2462           | 13.12                                                   | 13.25                                                   | 30          |
| 802.11n20  | 2412           | 13.21                                                   | 13.81                                                   | 30          |
|            | 2437           | 13.44                                                   | 13.54                                                   | 30          |
|            | 2462           | 13.5                                                    | 13.52                                                   | 30          |
| 802.11n40  | 2422           | 13.3                                                    | 13.44                                                   | 30          |
|            | 2437           | 13.43                                                   | 13.58                                                   | 30          |
|            | 2452           | 13.54                                                   | 13.53                                                   | 30          |
| 802.11ax20 | 2412           | 13.53                                                   | 13.63                                                   | 30          |
|            | 2437           | 13.63                                                   | 13.2                                                    | 30          |
|            | 2462           | 13.25                                                   | 13.17                                                   | 30          |
| 802.11ax40 | 2422           | 13.44                                                   | 13.59                                                   | 30          |
|            | 2437           | 13.07                                                   | 13.2                                                    | 30          |
|            | 2452           | 13.19                                                   | 13.21                                                   | 30          |

## For 2T2R

| Test Mode  | Frequency | Maximum Conducted Output Power(PK) (dBm) | Limit (dBm) | Result |
|------------|-----------|------------------------------------------|-------------|--------|
| 802.11n20  | 2412 MHz  | 16.53                                    | 27.65       | PASS   |
|            | 2437 MHz  | 16.50                                    | 27.65       | PASS   |
|            | 2462 MHz  | 16.52                                    | 27.65       | PASS   |
| 802.11n40  | 2422 MHz  | 16.38                                    | 27.65       | PASS   |
|            | 2437 MHz  | 16.52                                    | 27.65       | PASS   |
|            | 2452 MHz  | 16.55                                    | 27.65       | PASS   |
| 802.11ax20 | 2412 MHz  | 16.59                                    | 27.65       | PASS   |
|            | 2437 MHz  | 16.43                                    | 27.65       | PASS   |
|            | 2462 MHz  | 16.22                                    | 27.65       | PASS   |
| 802.11ax40 | 2422 MHz  | 16.53                                    | 27.65       | PASS   |
|            | 2437 MHz  | 16.15                                    | 27.65       | PASS   |
|            | 2452 MHz  | 16.21                                    | 27.65       | PASS   |



## 12. 100 kHz Bandwidth Of Frequency Band Edge

### 12.1 Block Diagram Of Test Setup



### 12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

### 12.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

## 12.5 Test Result

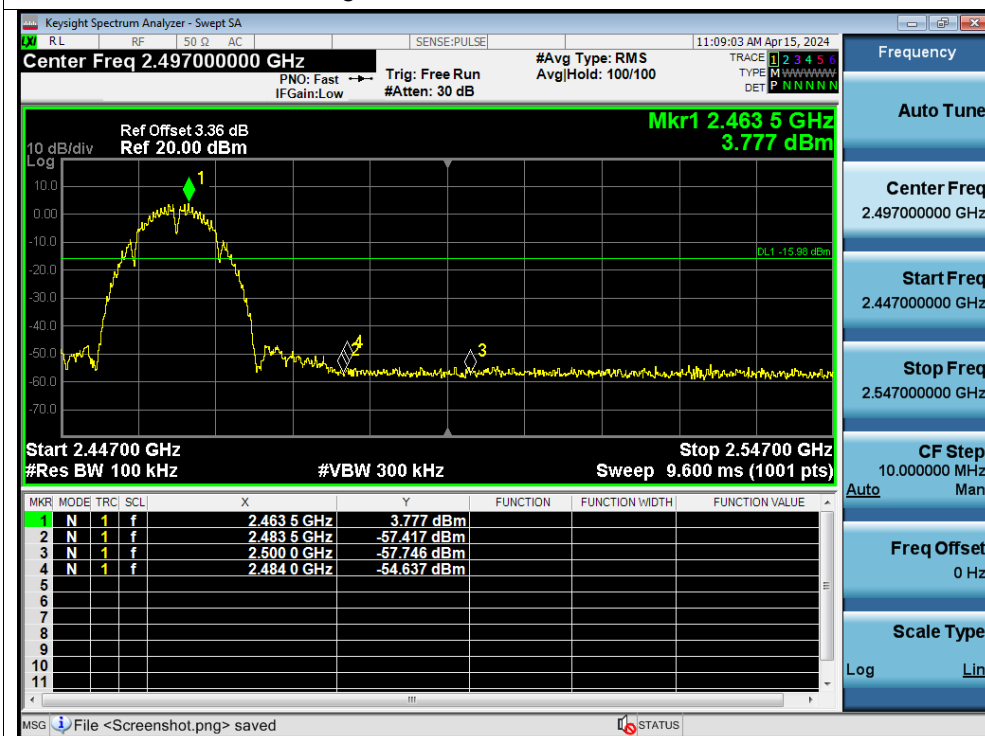
### Ant A

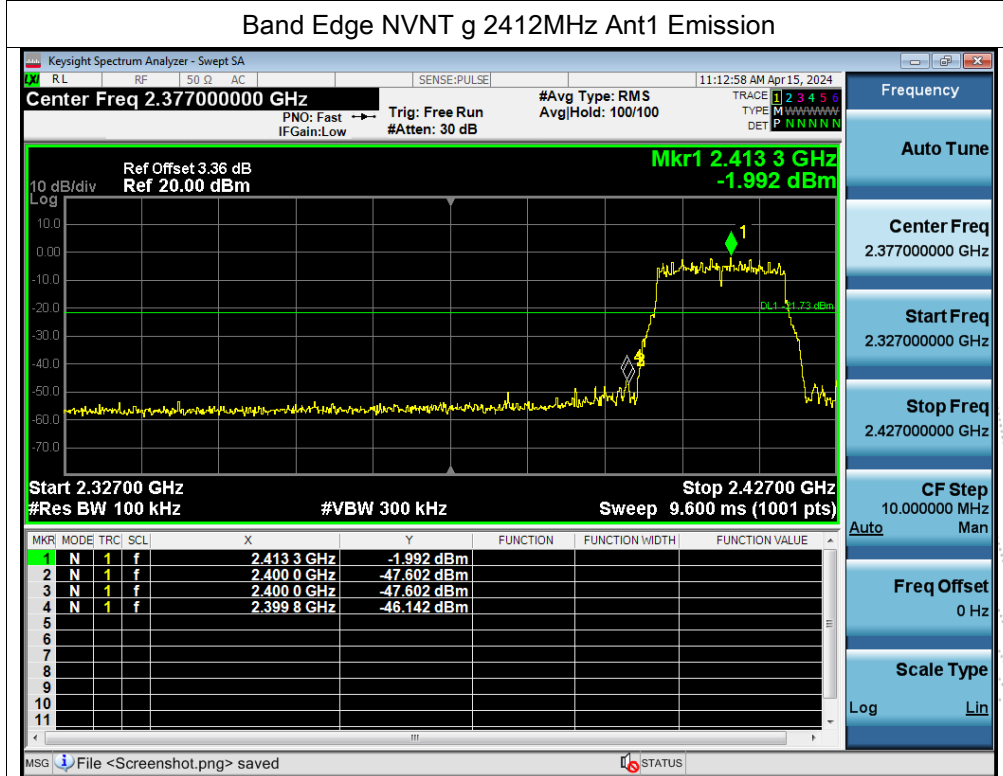
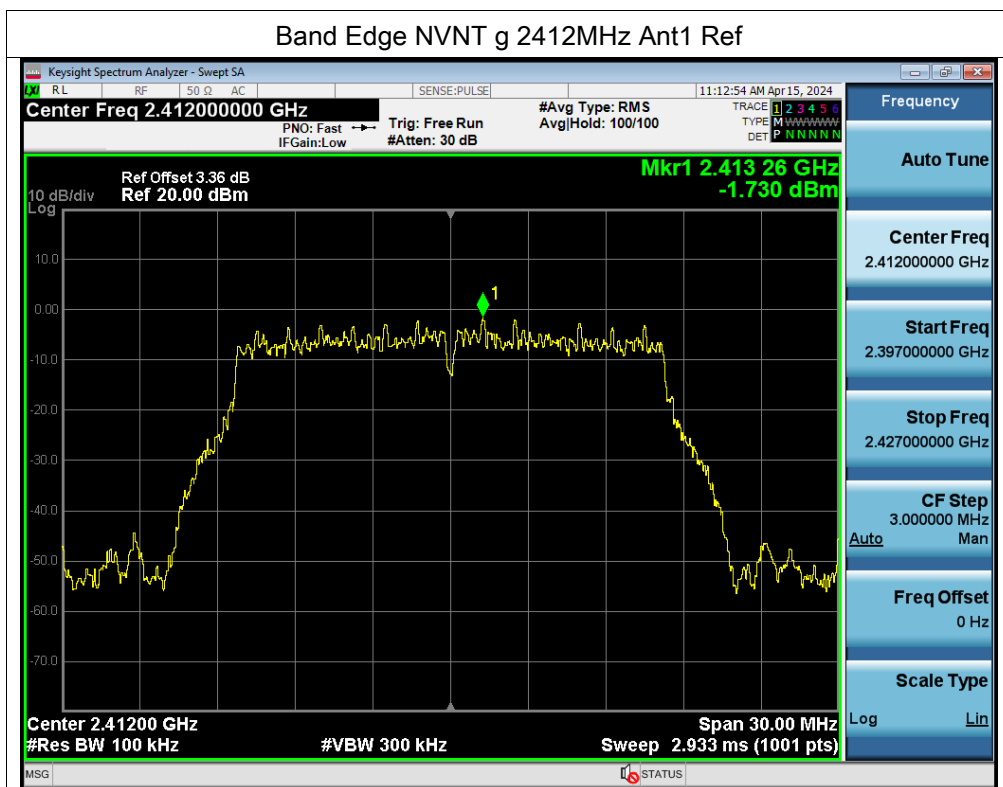


### Band Edge NVNT b 2462MHz Ant1 Ref



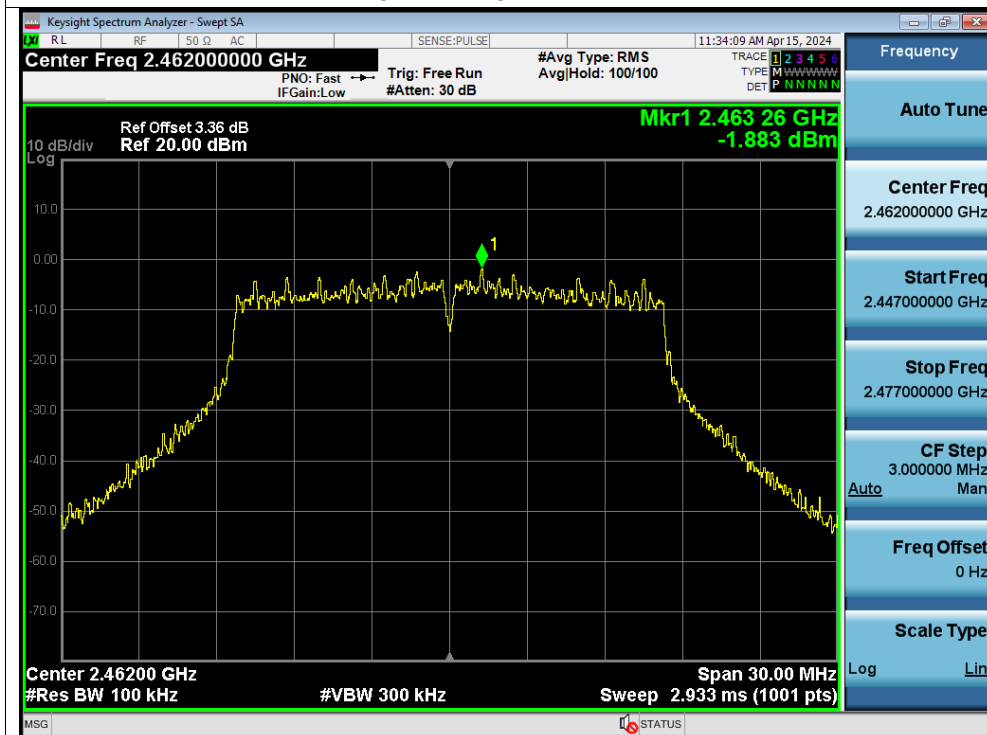
### Band Edge NVNT b 2462MHz Ant1 Emission



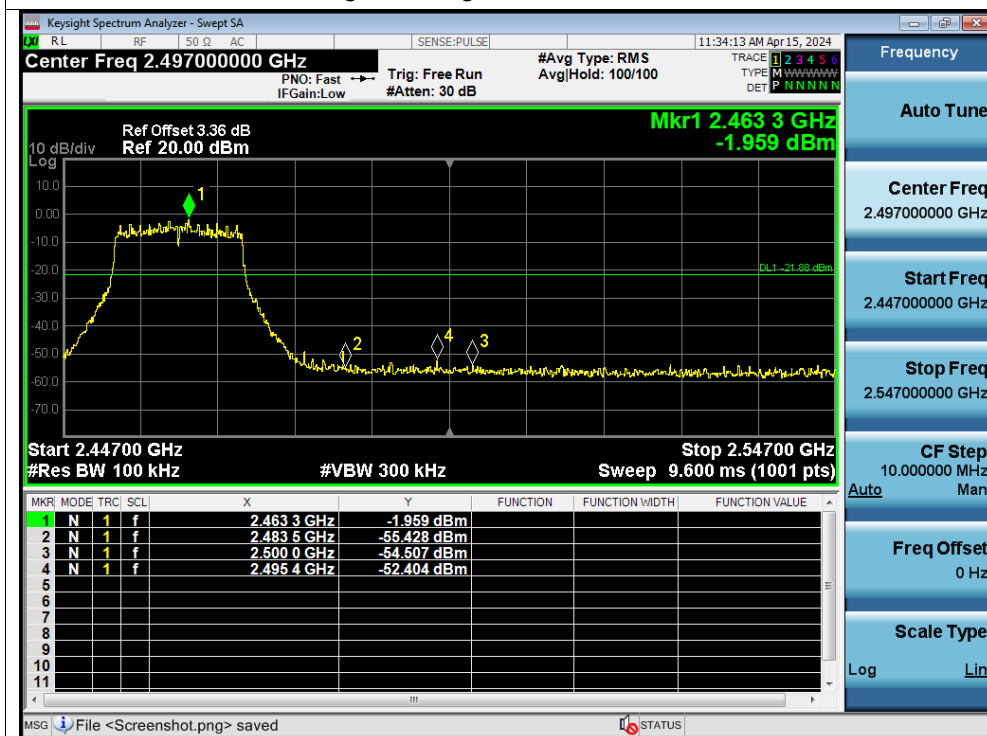




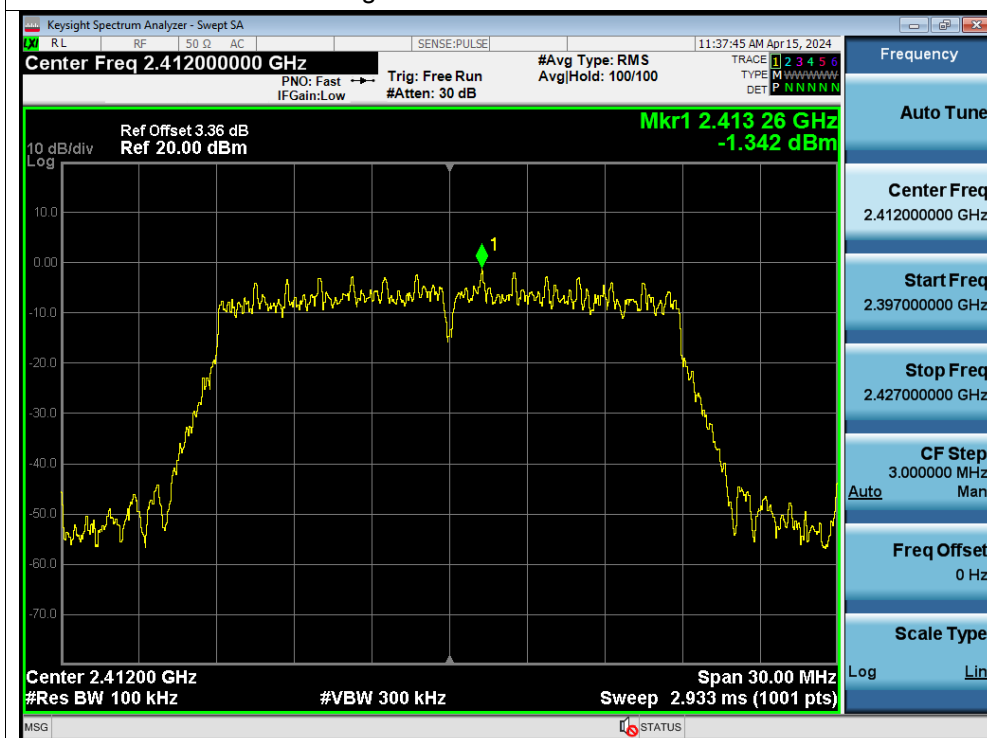
### Band Edge NVNT g 2462MHz Ant1 Ref



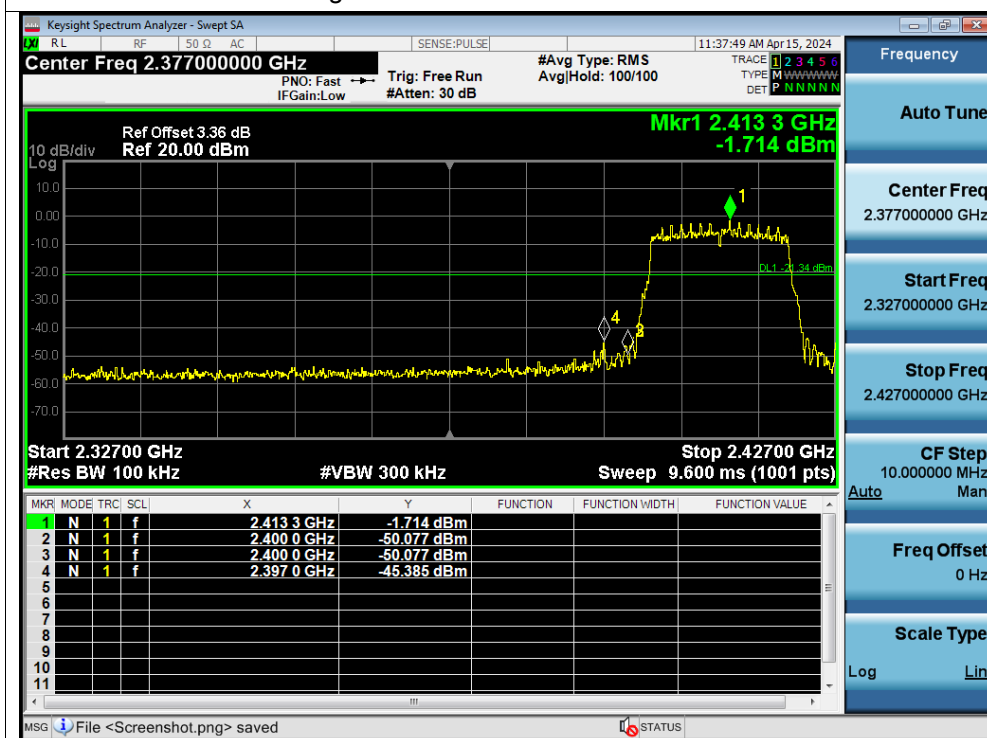
### Band Edge NVNT g 2462MHz Ant1 Emission



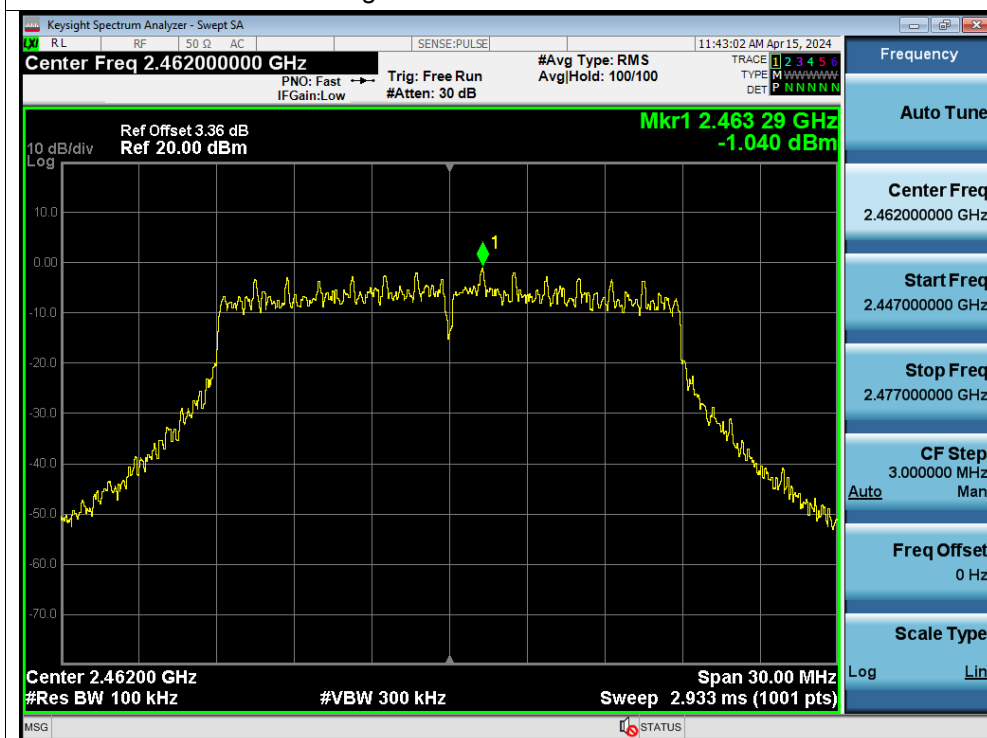
### Band Edge NVNT n20 2412MHz Ant1 Ref



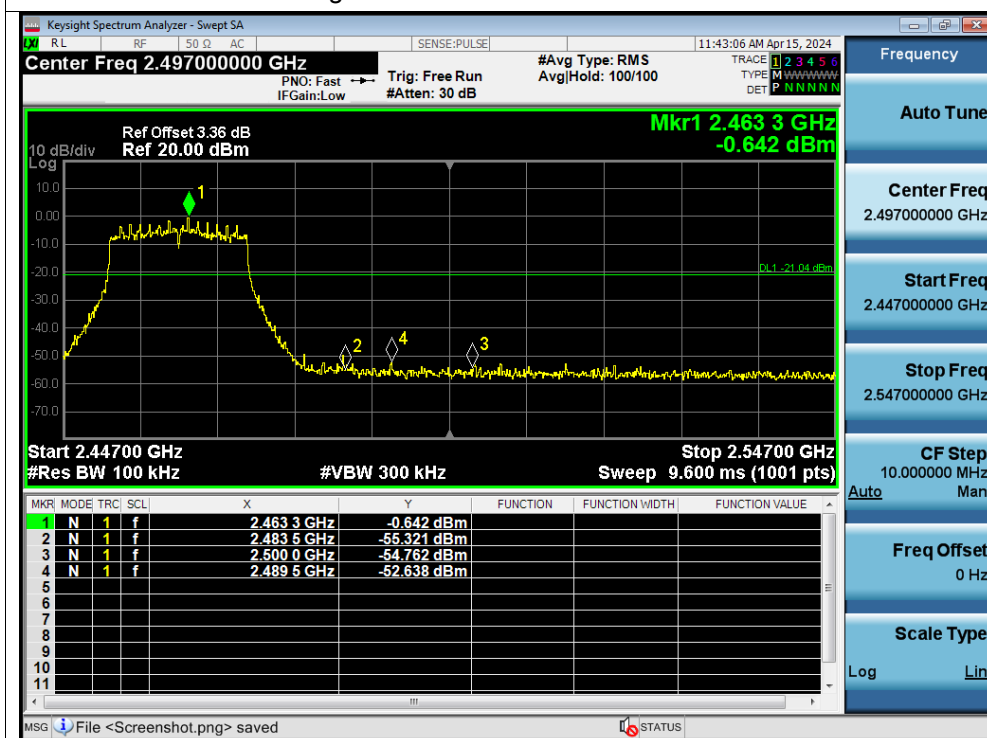
### Band Edge NVNT n20 2412MHz Ant1 Emission



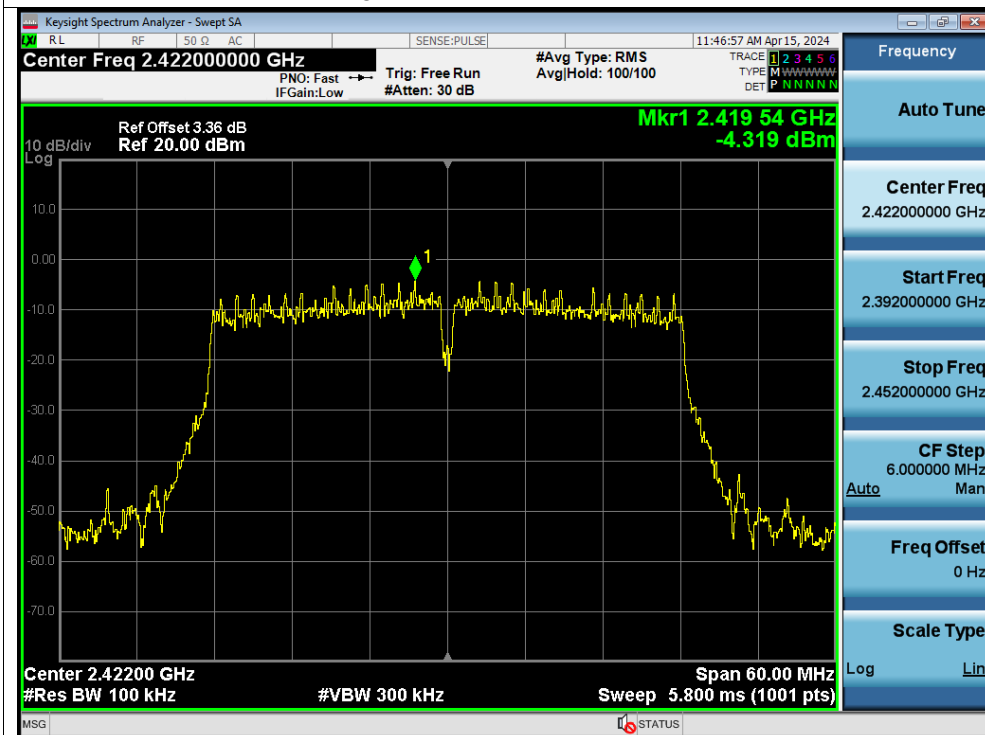
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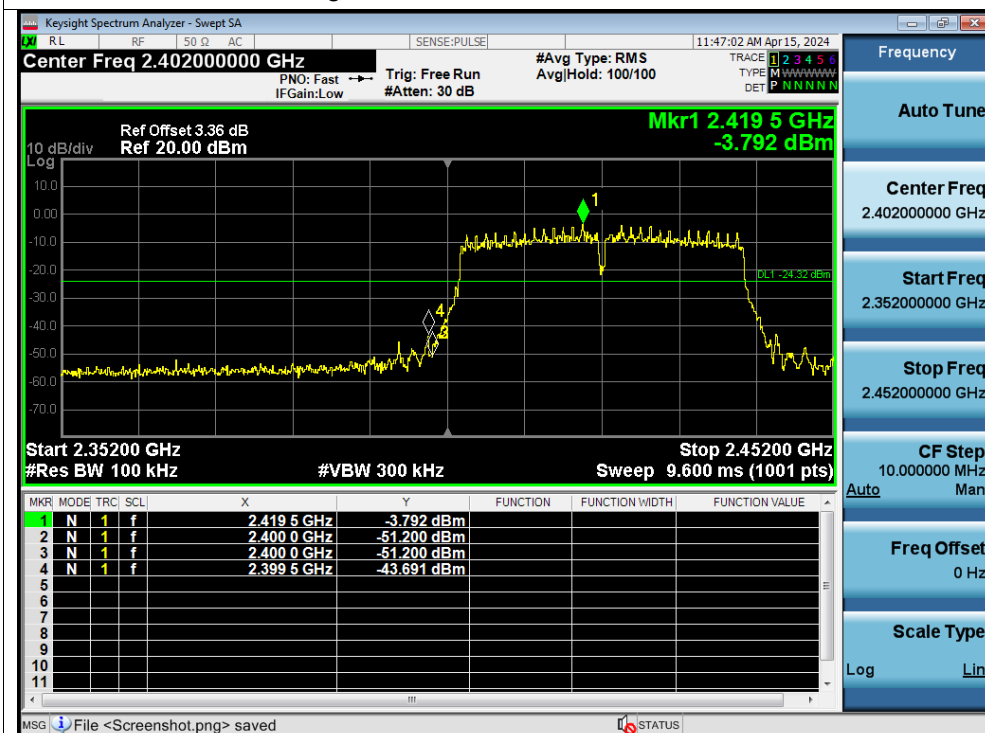
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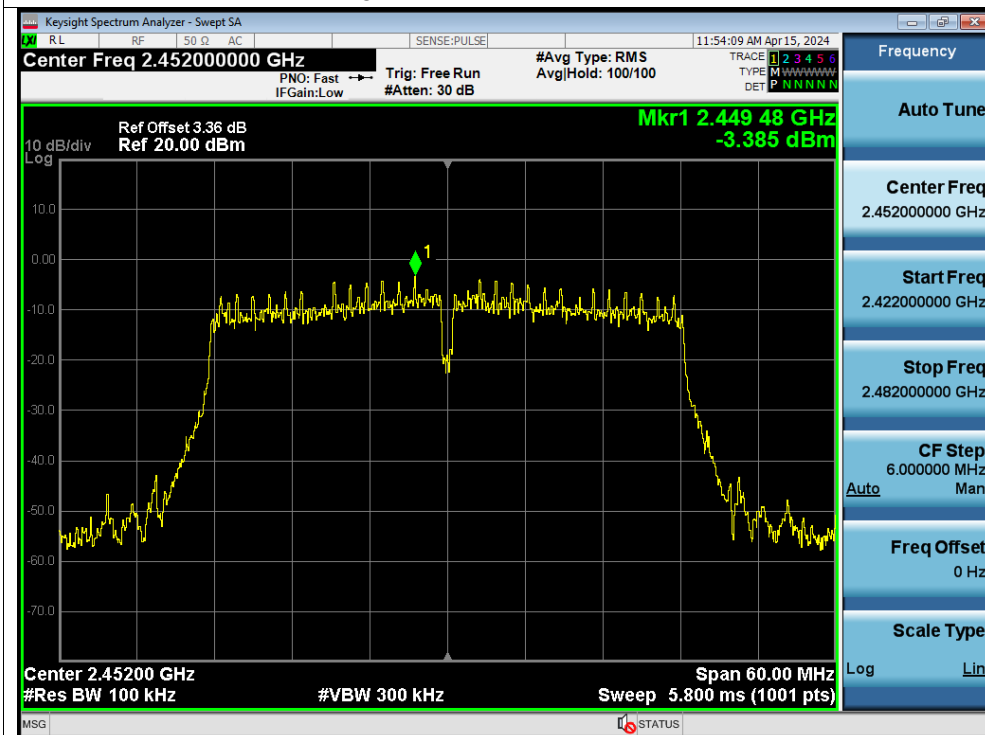
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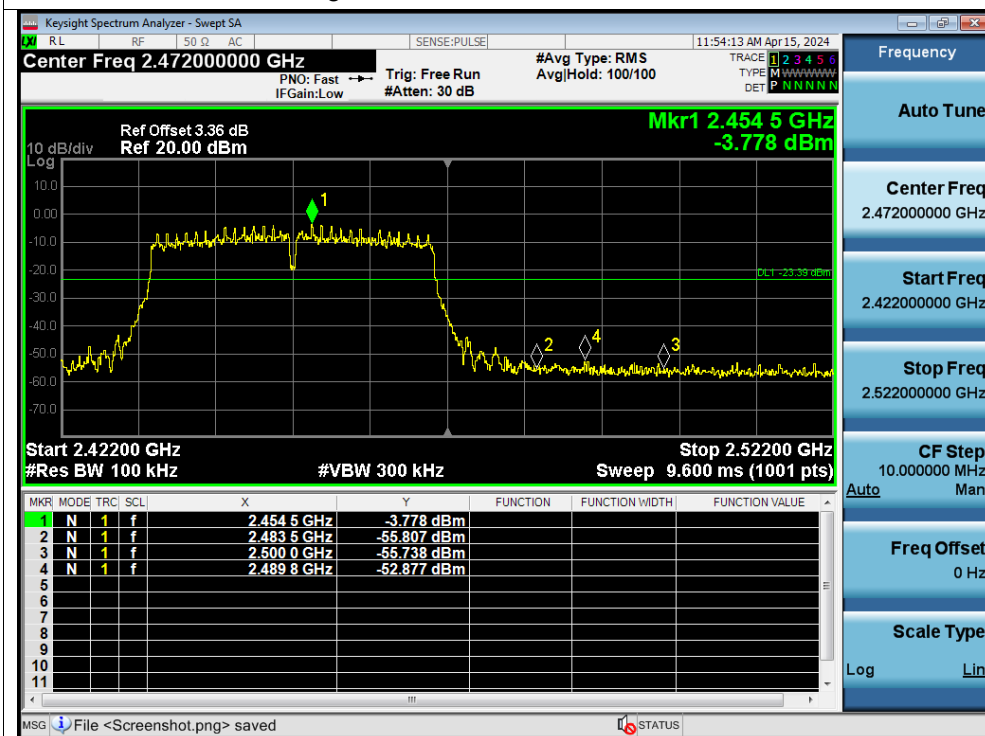
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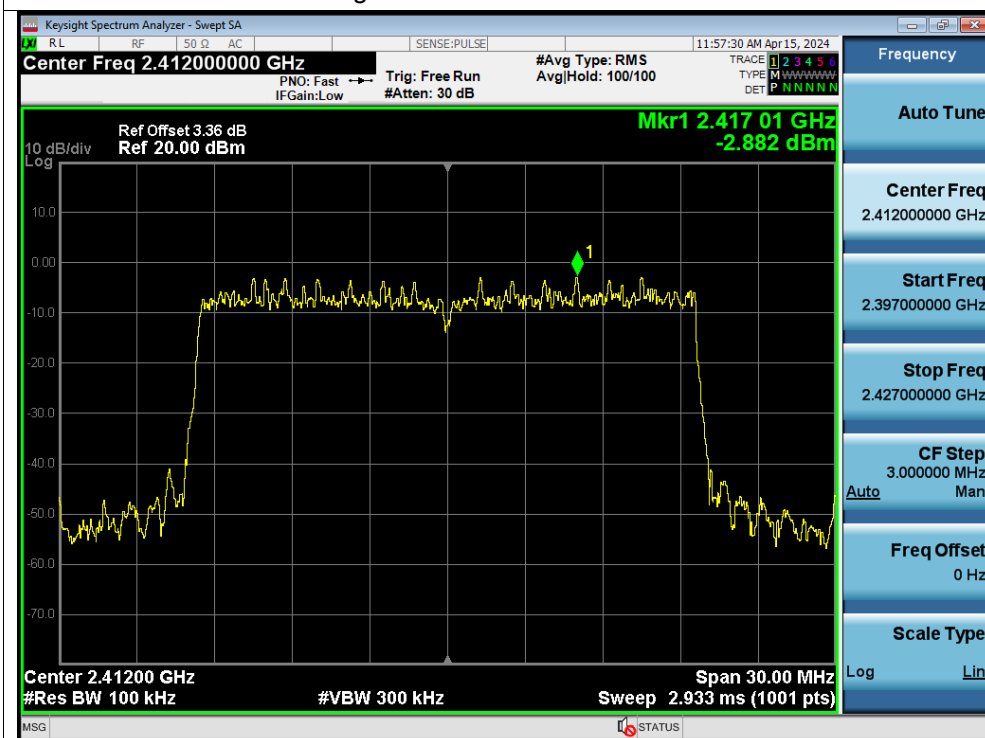
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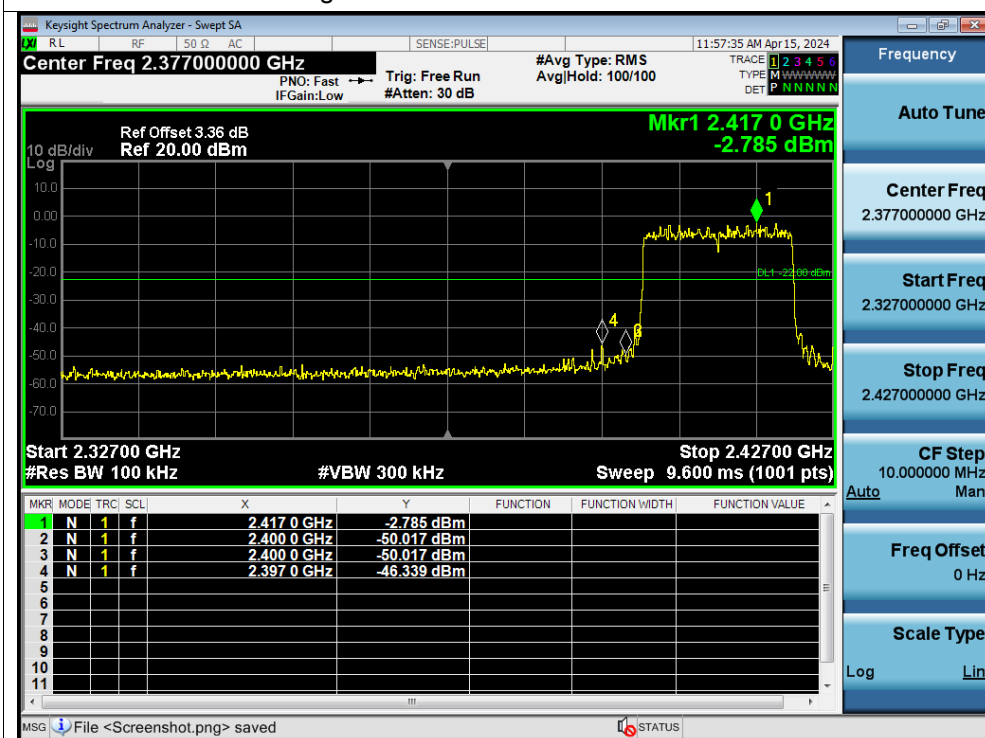
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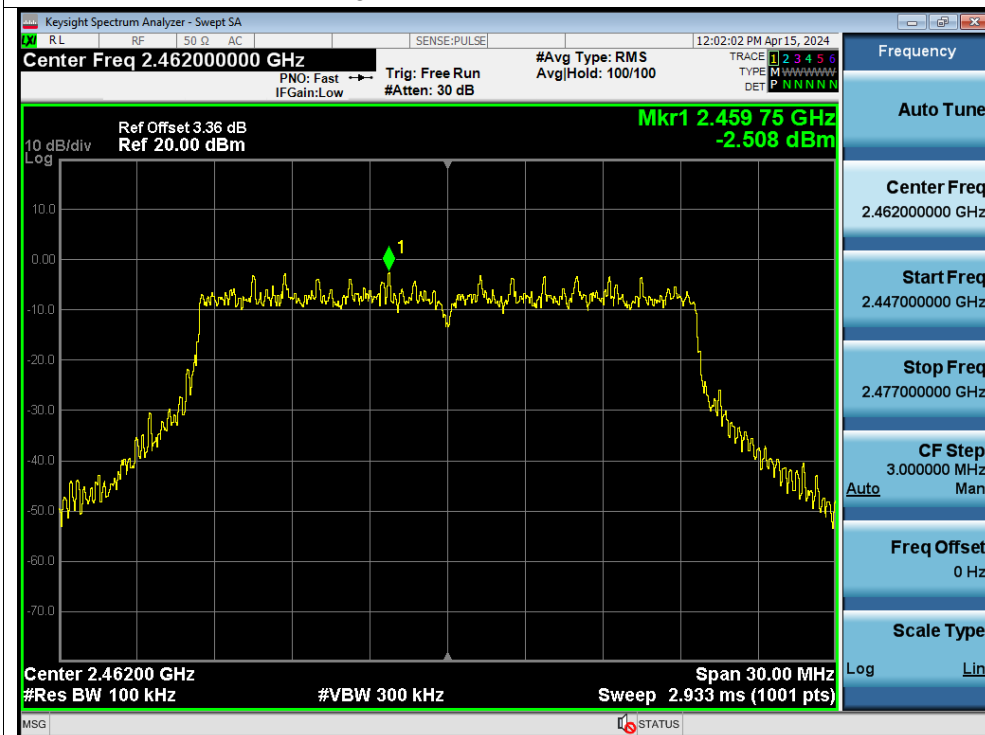
### Band Edge NVNT ax20 2412MHz Ant1 Ref



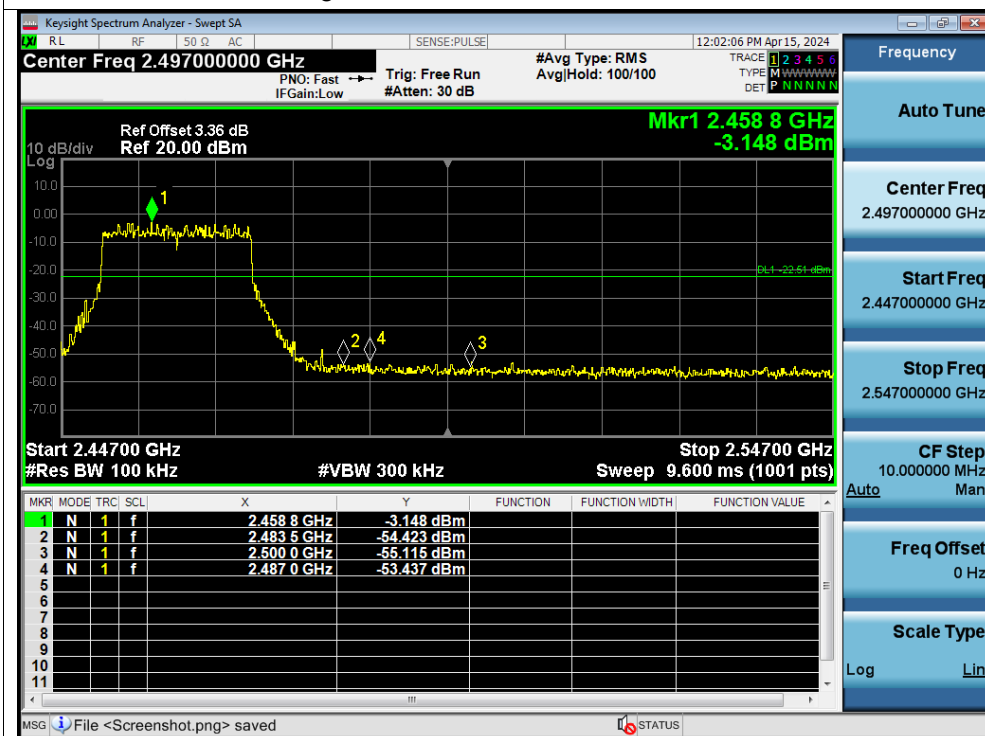
### Band Edge NVNT ax20 2412MHz Ant1 Emission



### Band Edge NVNT ax20 2462MHz Ant1 Ref

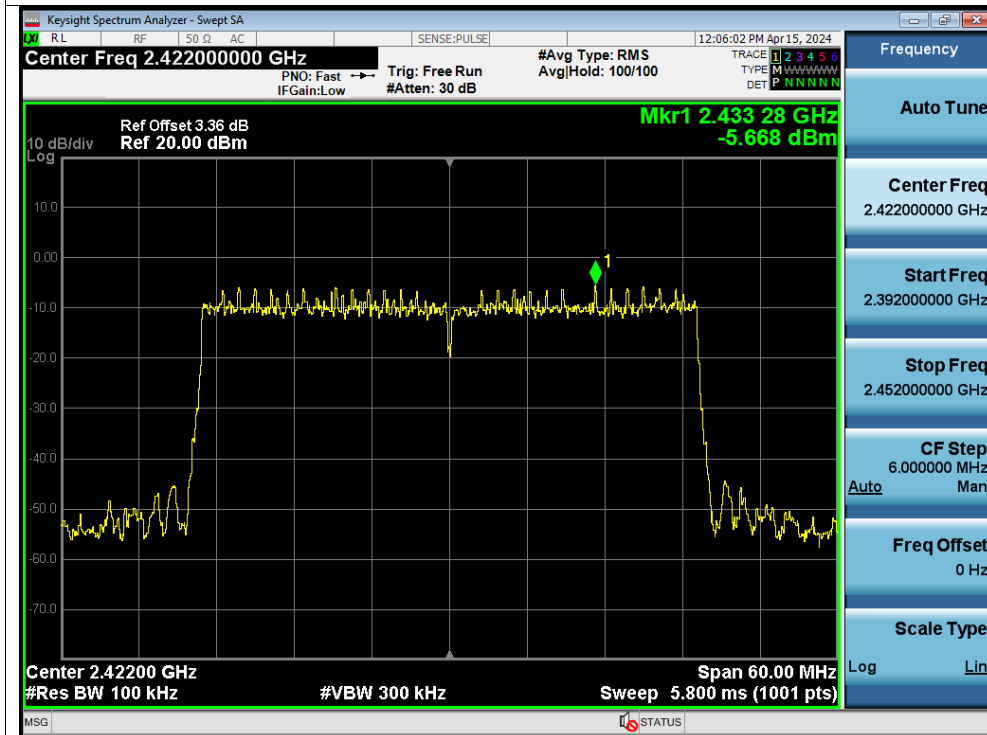


### Band Edge NVNT ax20 2462MHz Ant1 Emission

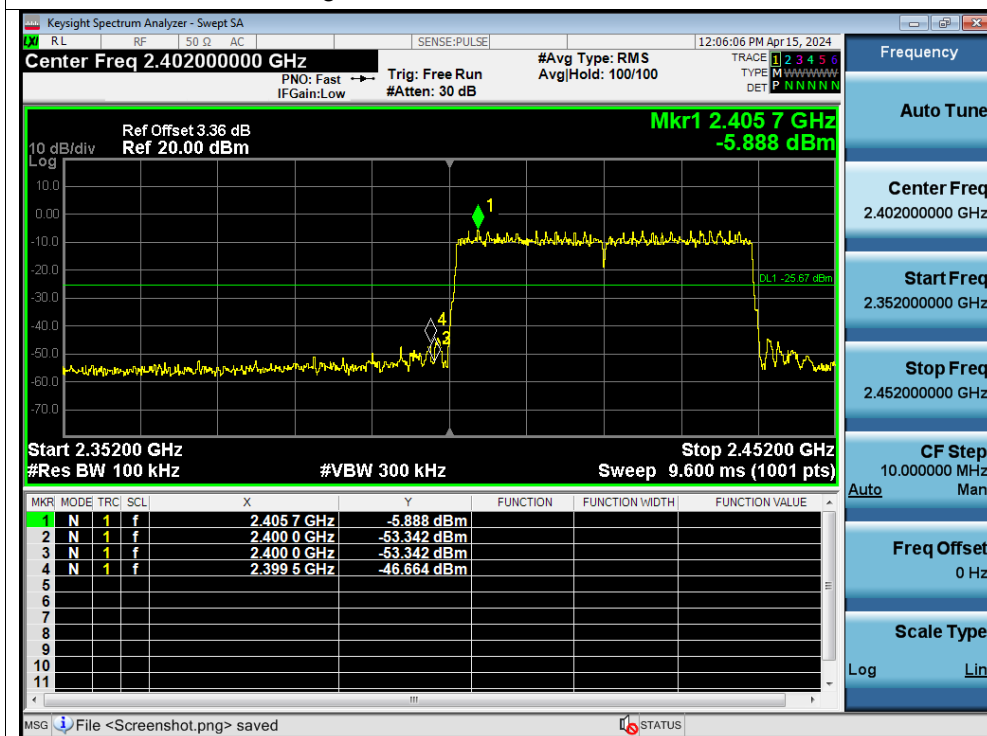




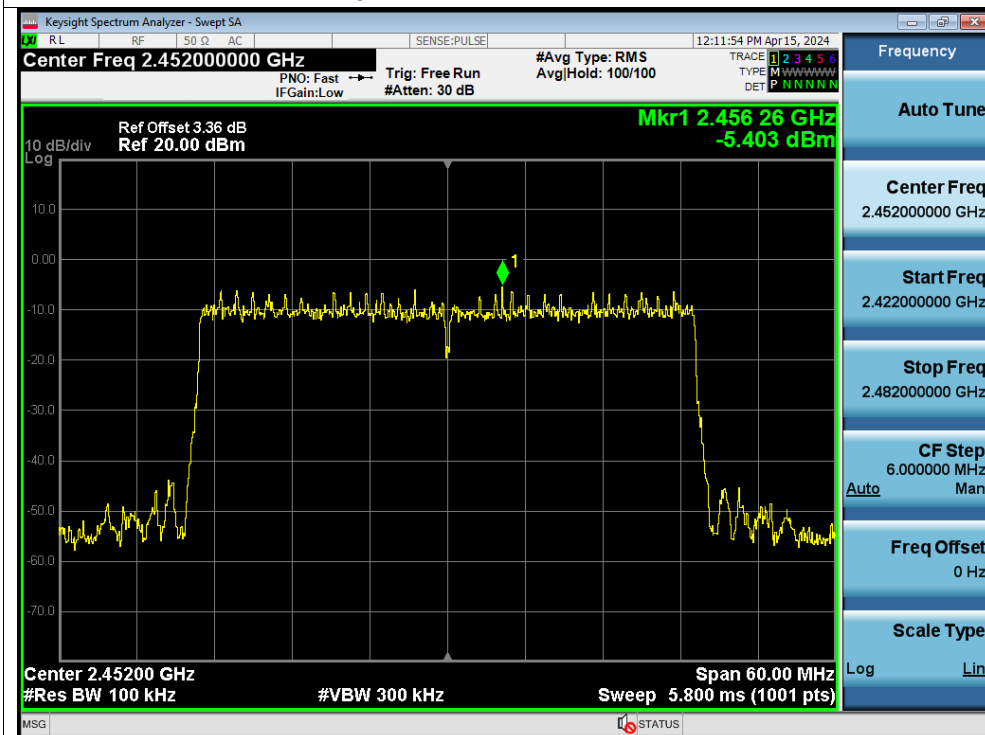
### Band Edge NVNT ax40 2422MHz Ant1 Ref



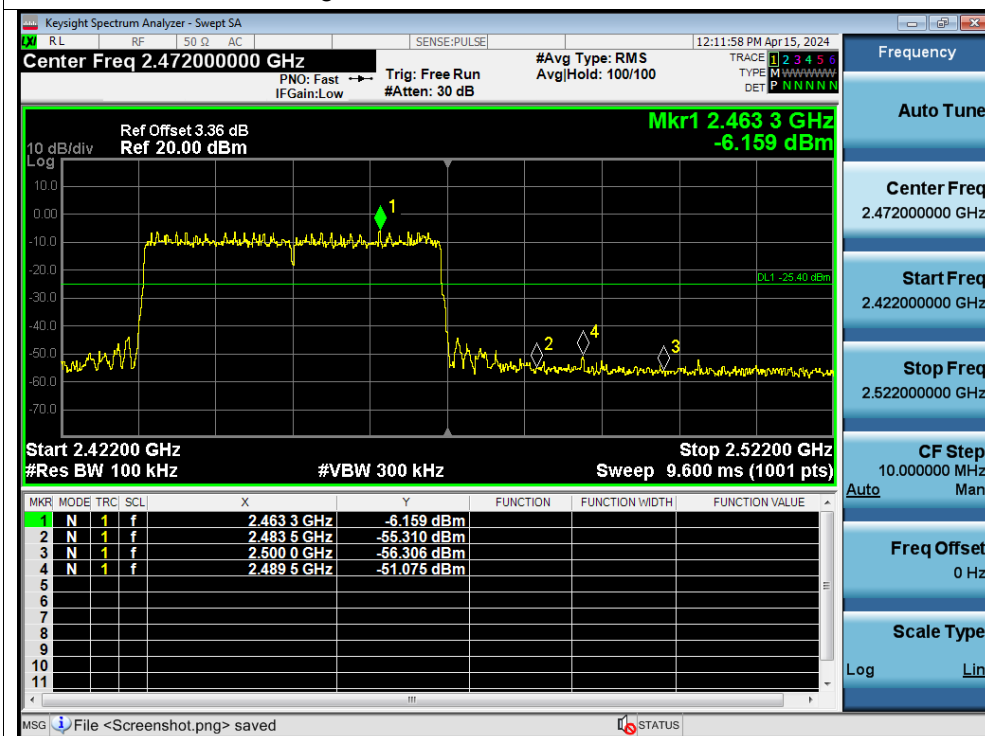
### Band Edge NVNT ax40 2422MHz Ant1 Emission



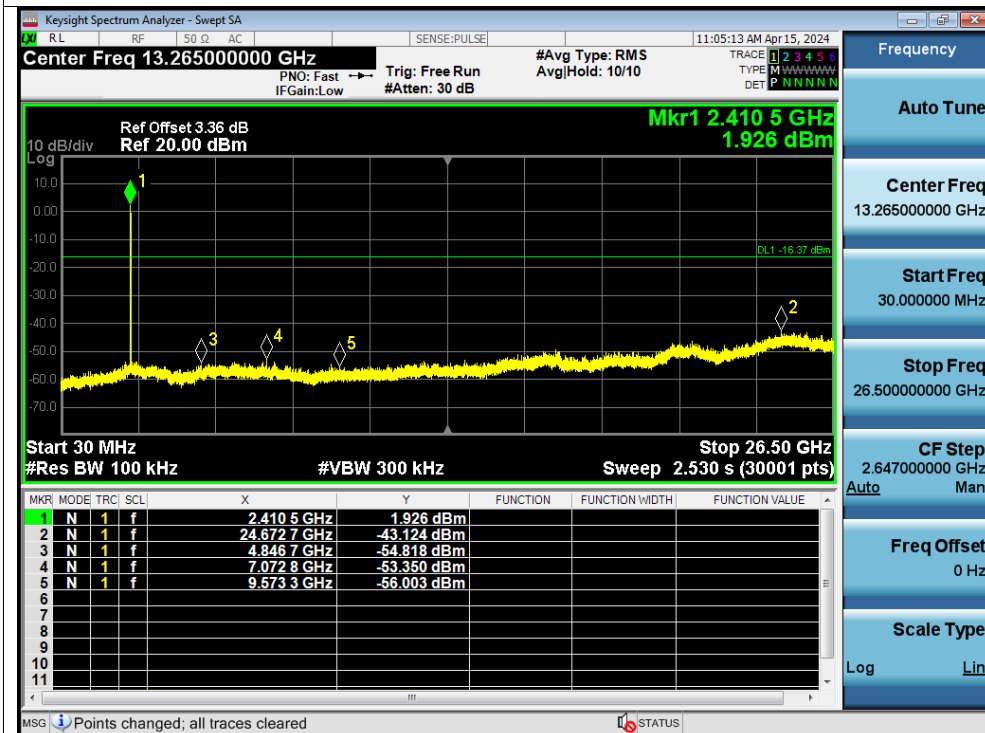
### Band Edge NVNT ax40 2452MHz Ant1 Ref



### Band Edge NVNT ax40 2452MHz Ant1 Emission



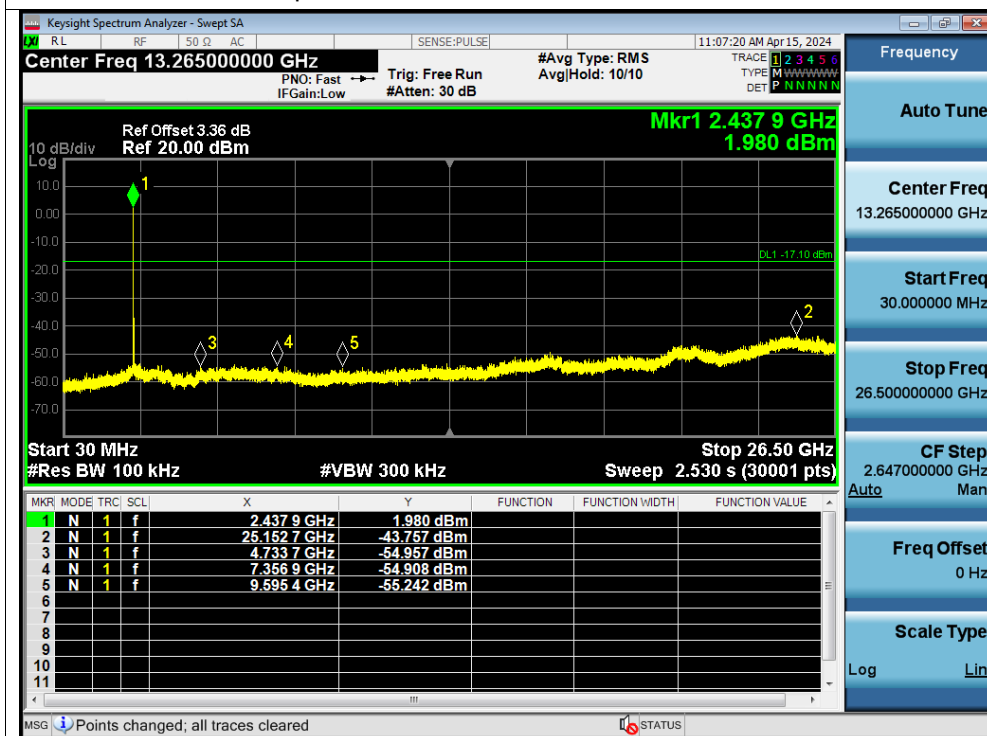
**Conducted RF Spurious Emission**
**Test Graphs**
**Tx. Spurious NVNT b 2412MHz Ant1 Ref**

**Tx. Spurious NVNT b 2412MHz Ant1 Emission**


## Tx. Spurious NVNT b 2437MHz Ant1 Ref



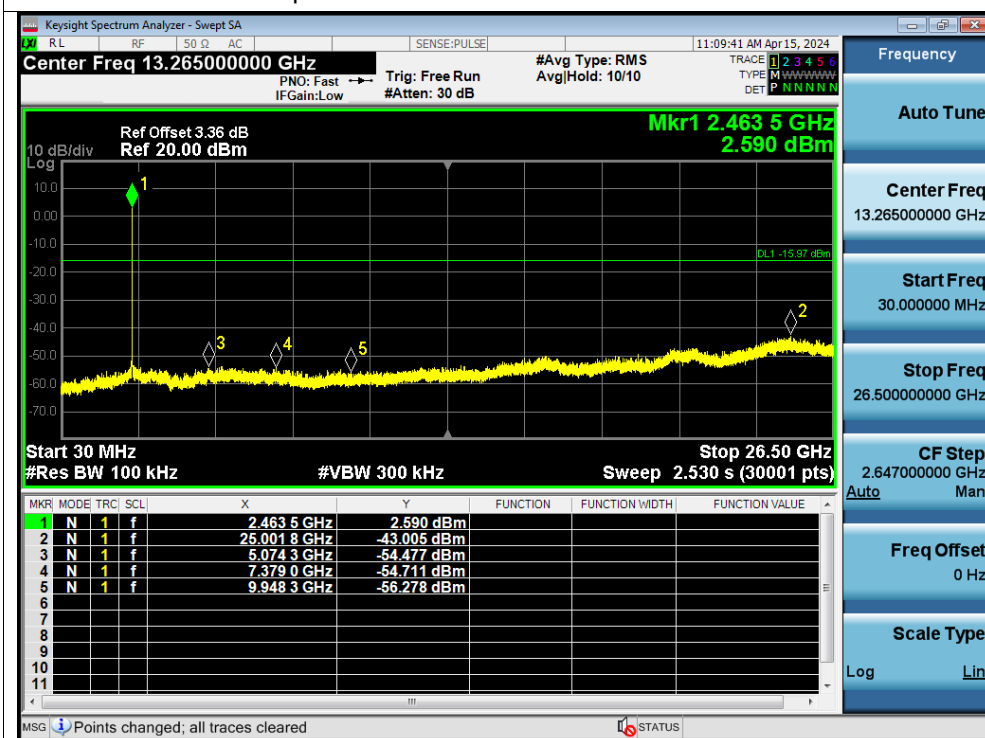
## Tx. Spurious NVNT b 2437MHz Ant1 Emission



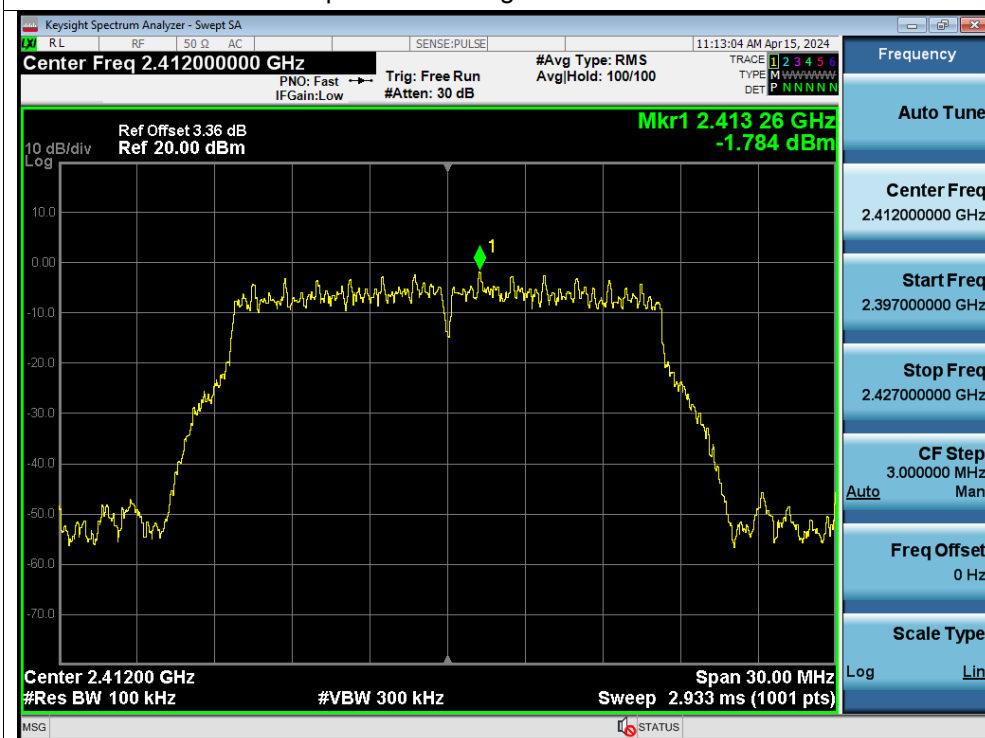
## Tx. Spurious NVNT b 2462MHz Ant1 Ref



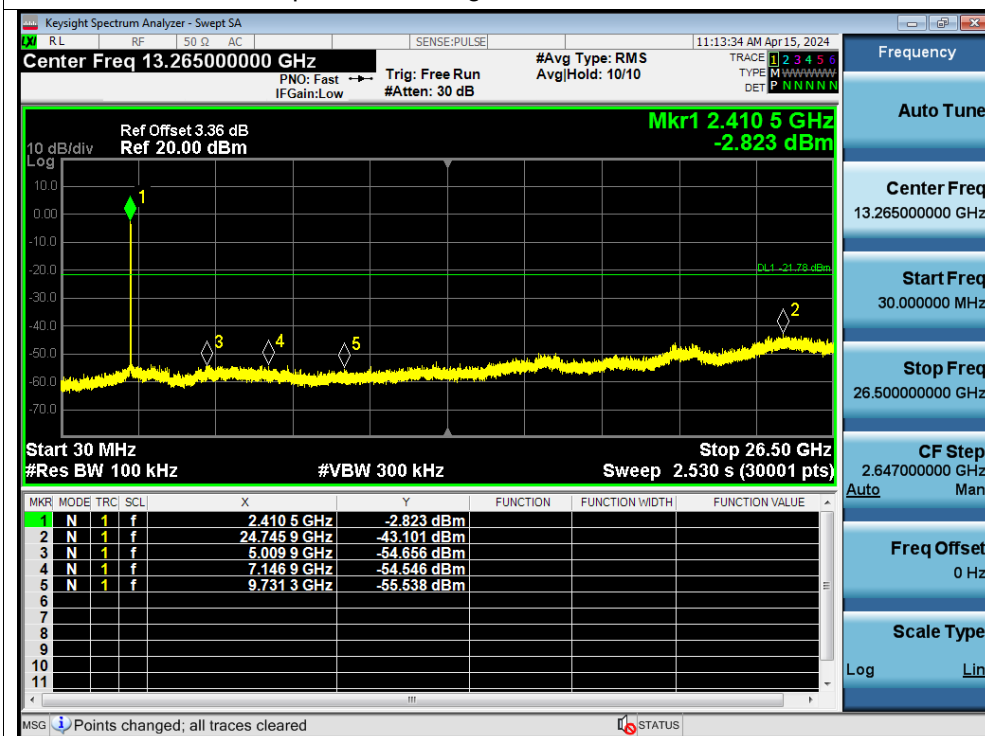
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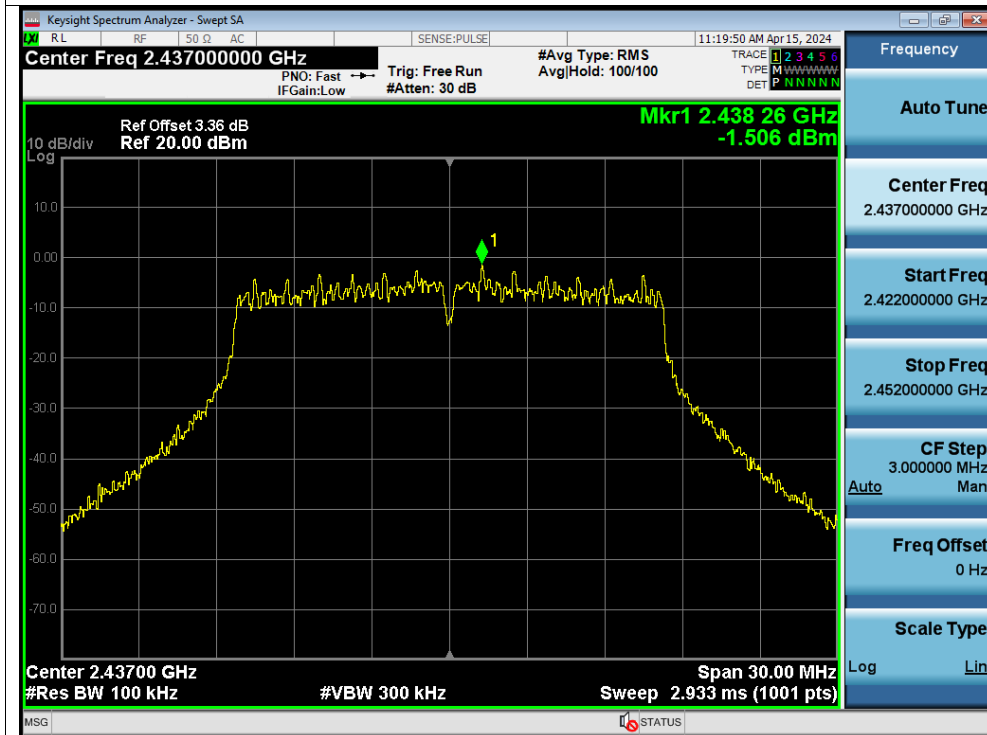
## Tx. Spurious NVNT g 2412MHz Ant1 Ref



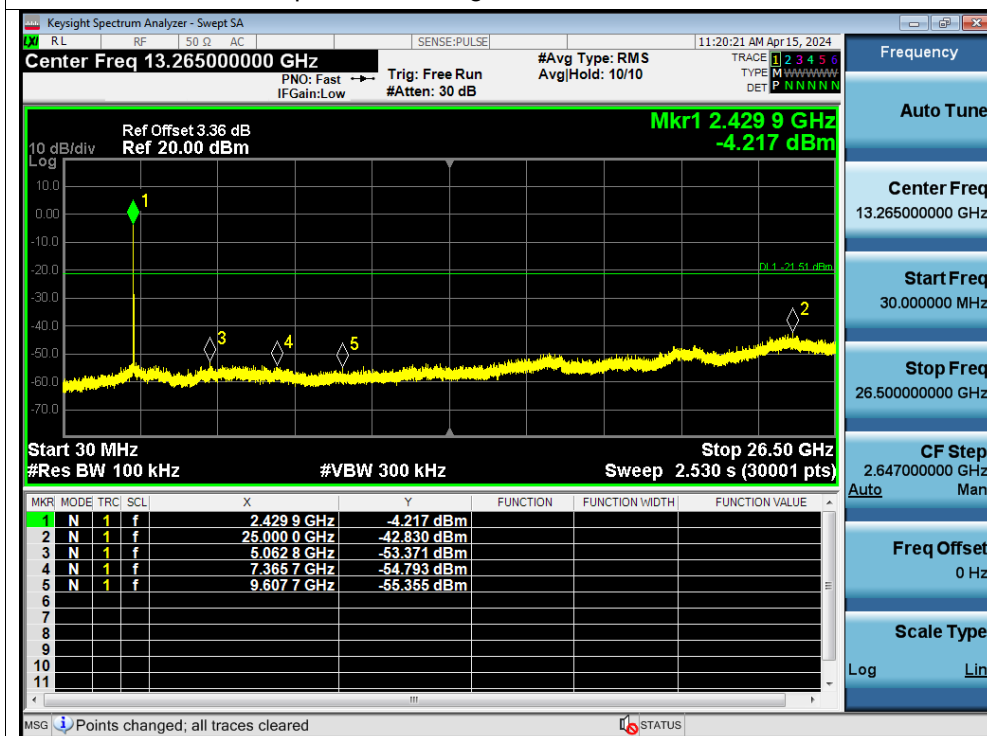
## Tx. Spurious NVNT g 2412MHz Ant1 Emission



## Tx. Spurious NVNT g 2437MHz Ant1 Ref

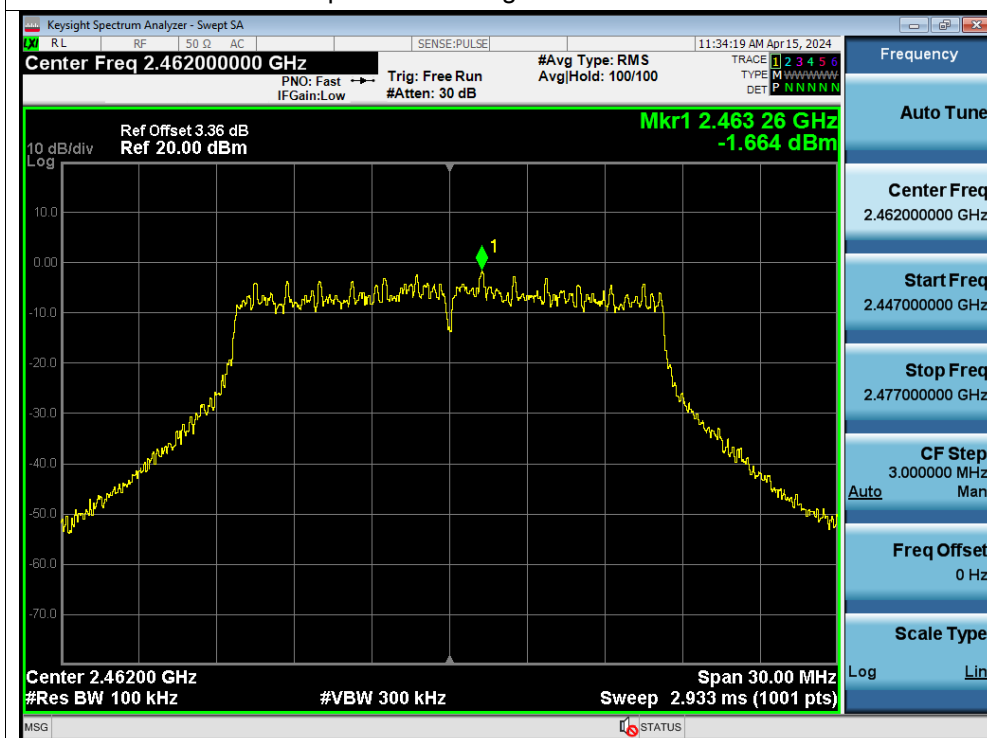


## Tx. Spurious NVNT g 2437MHz Ant1 Emission

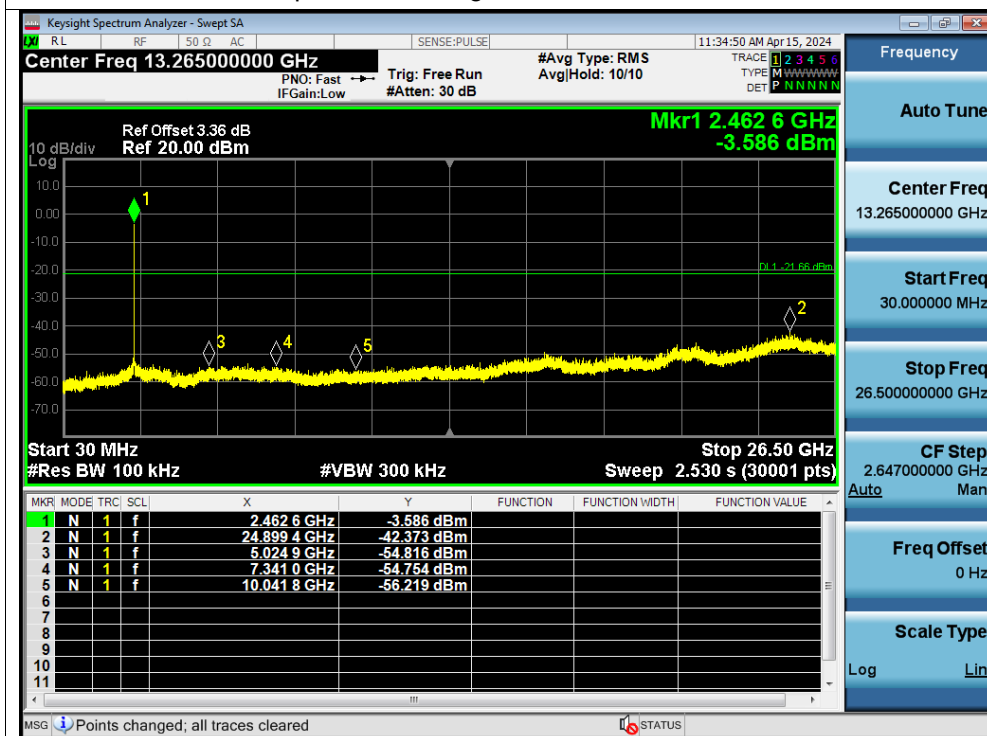




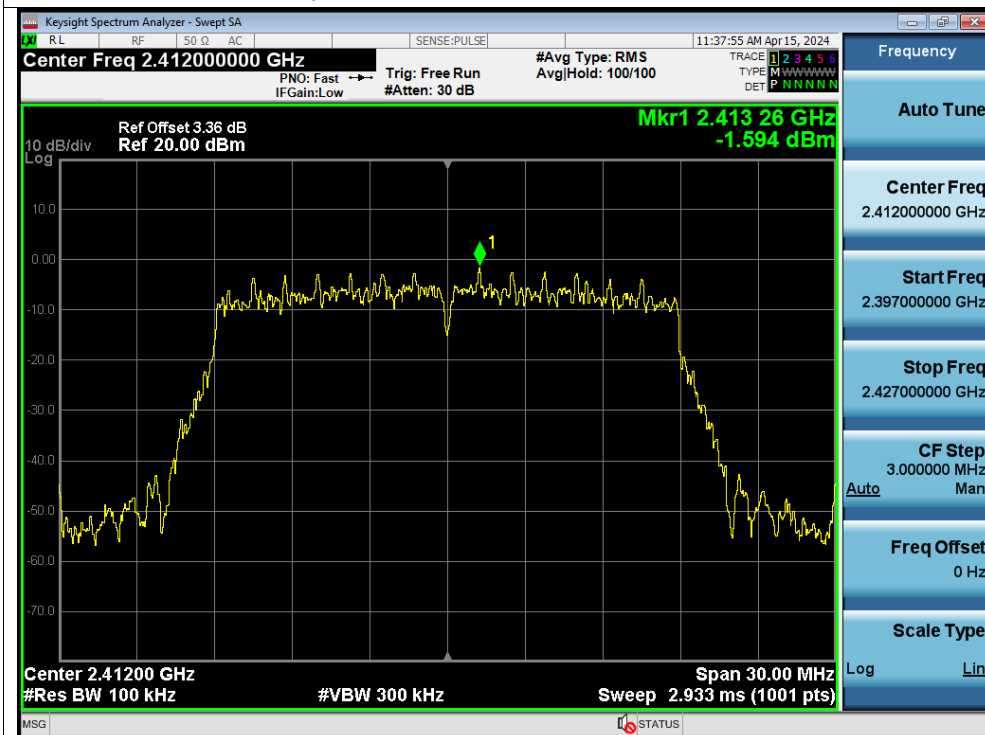
## Tx. Spurious NVNT g 2462MHz Ant1 Ref



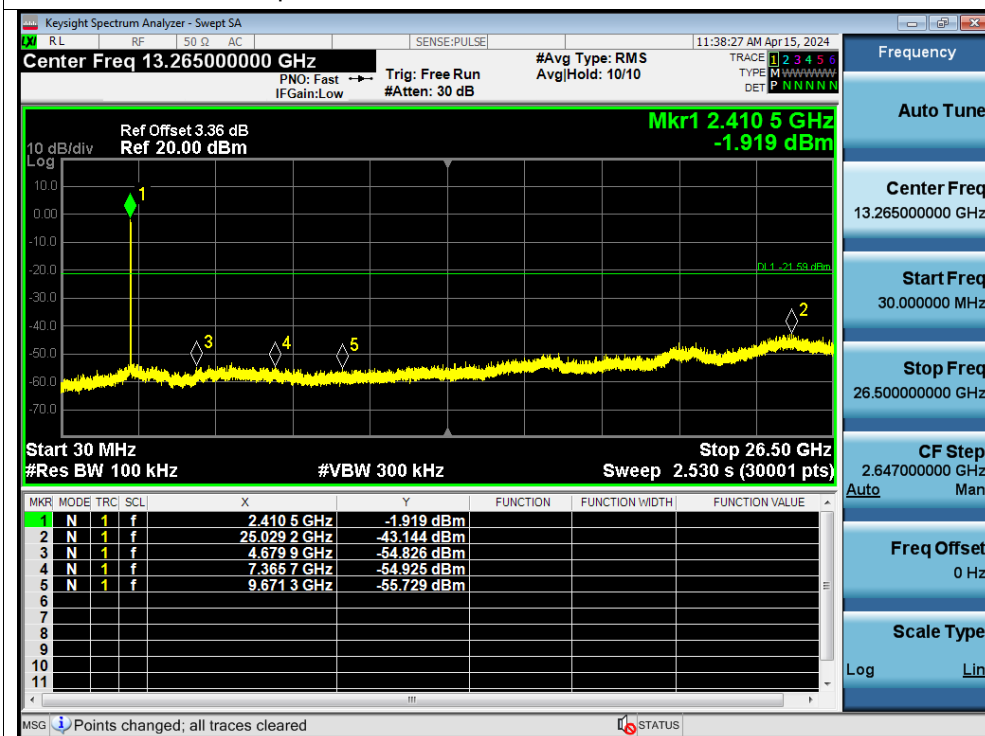
## Tx. Spurious NVNT g 2462MHz Ant1 Emission



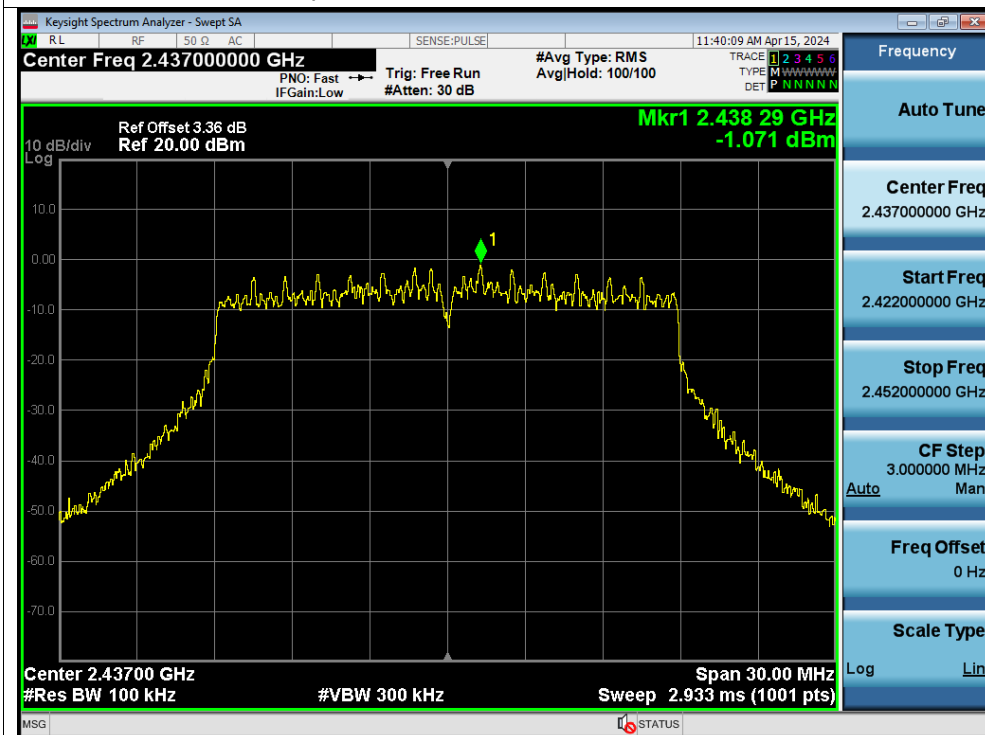
## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



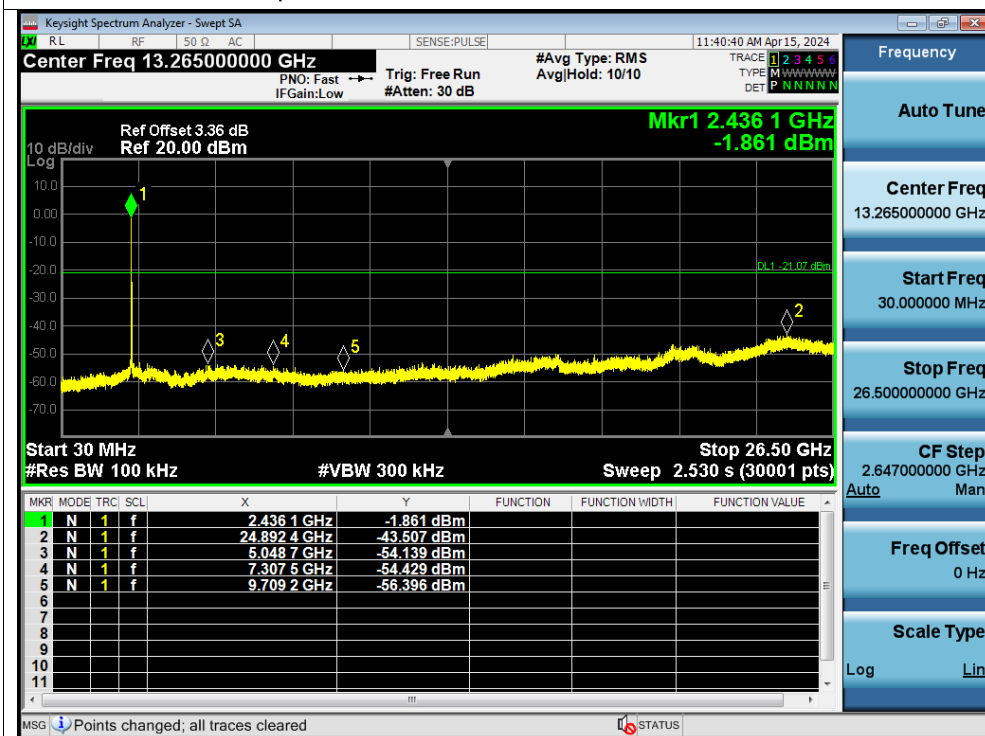
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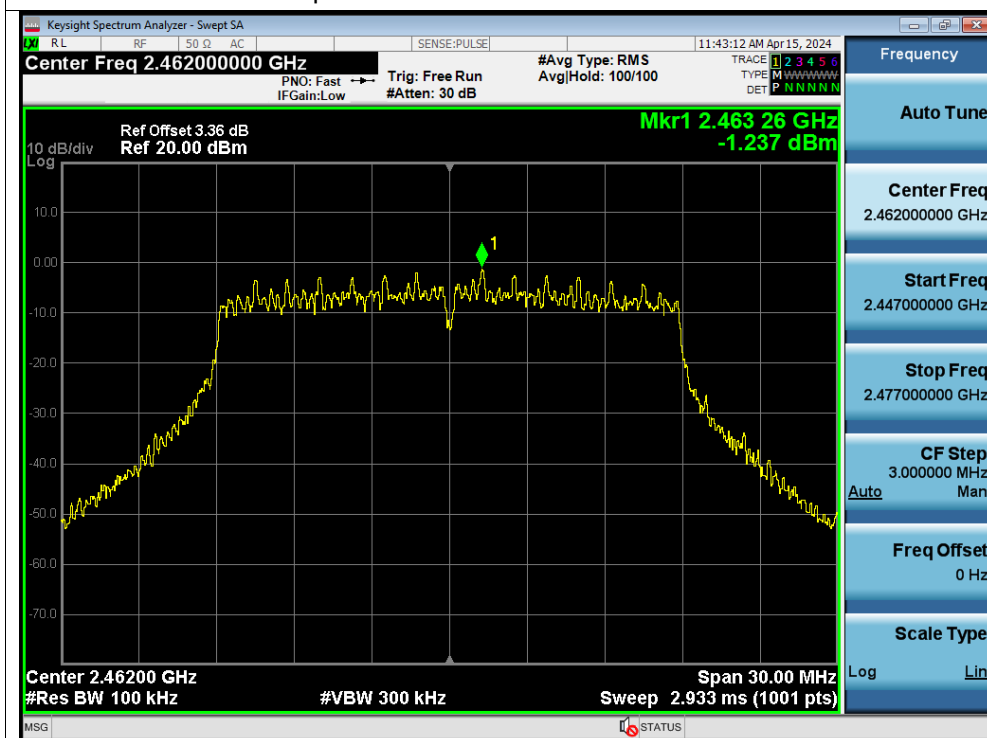
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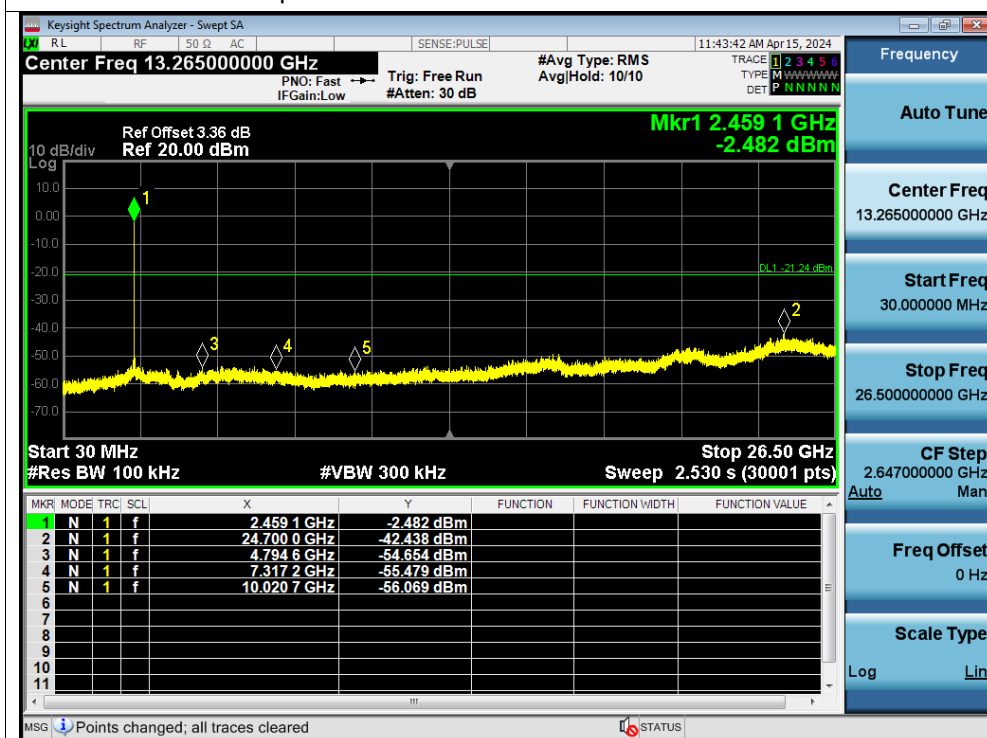
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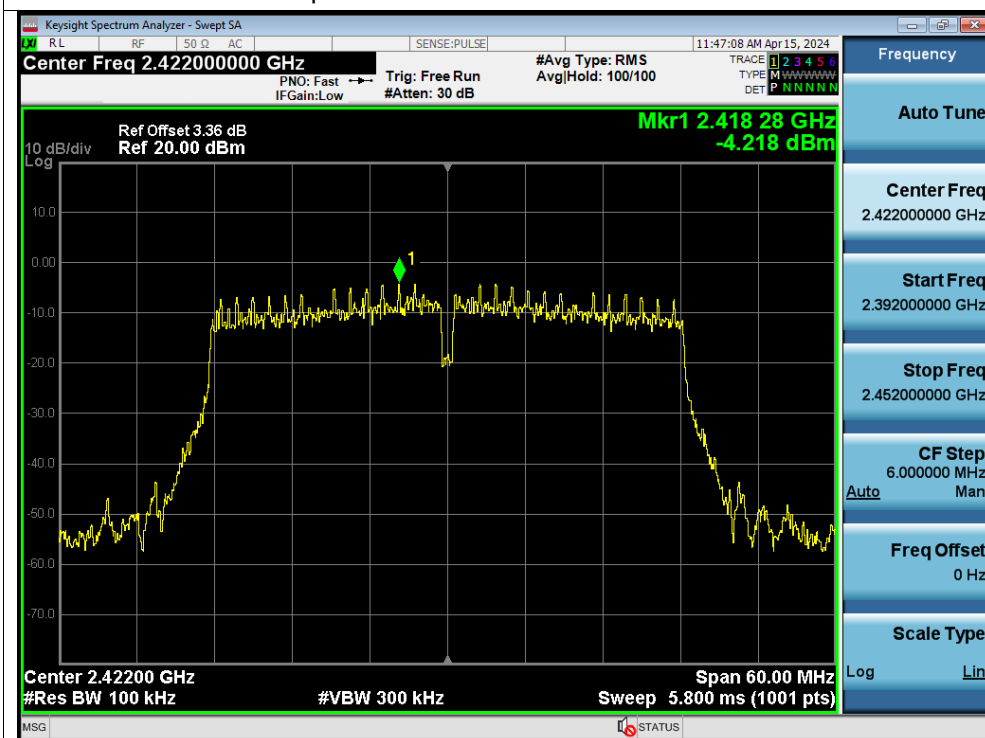
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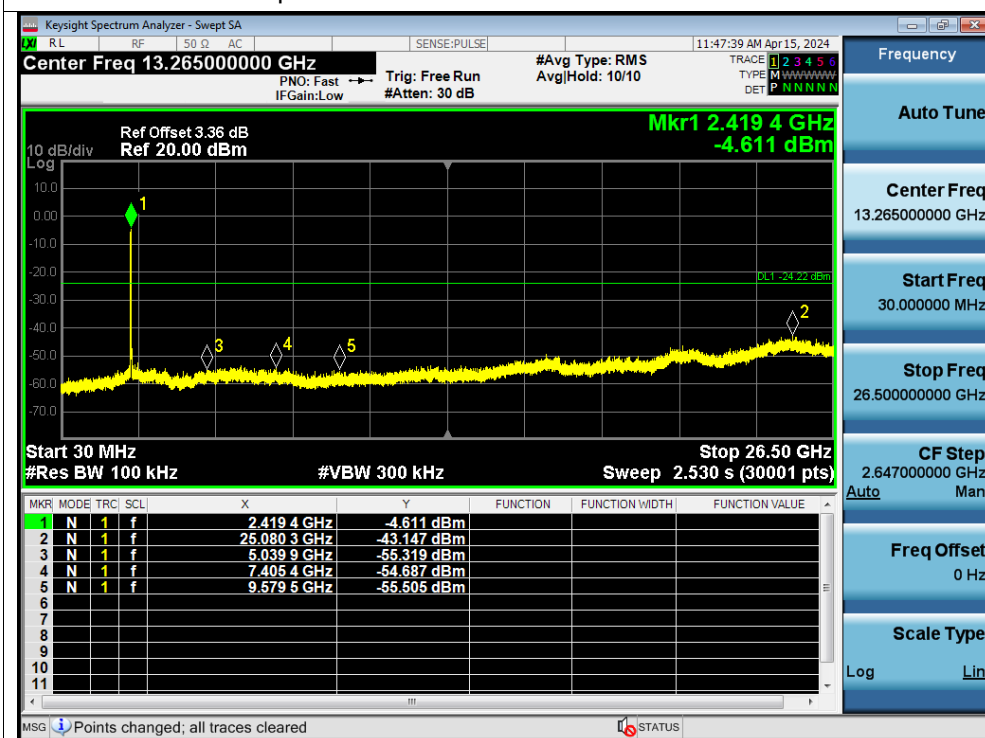
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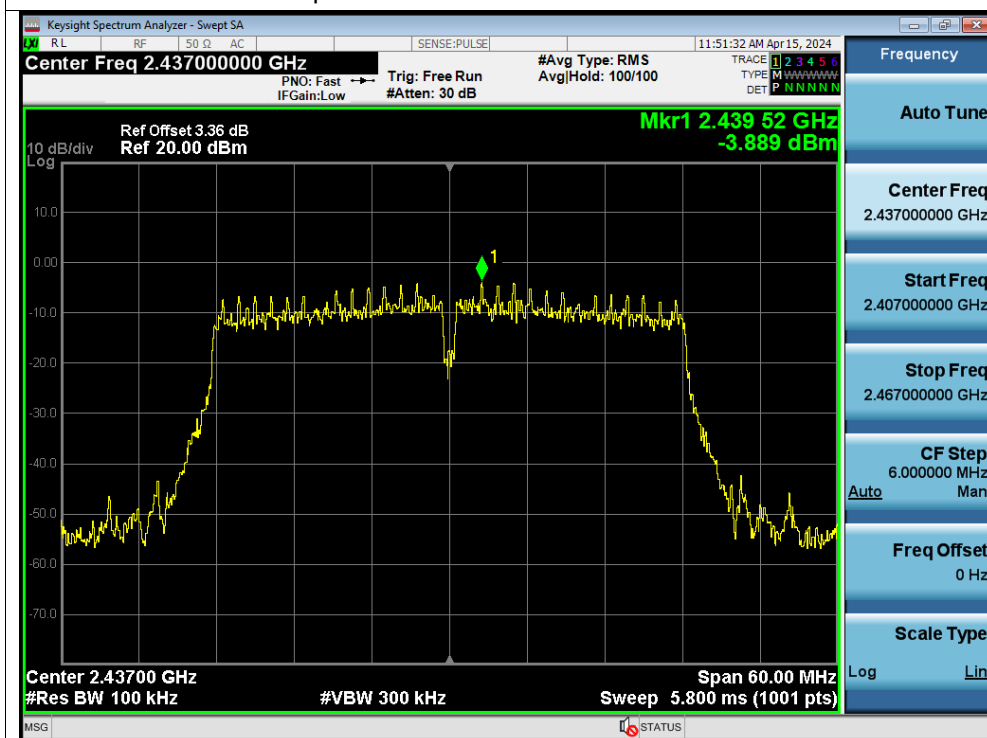
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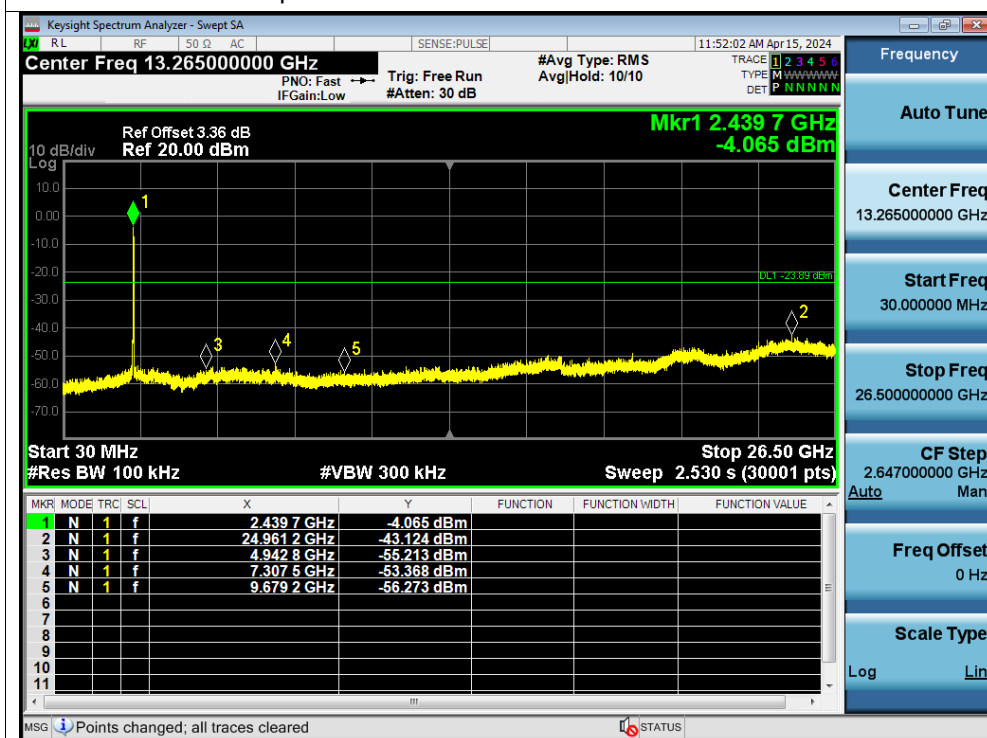
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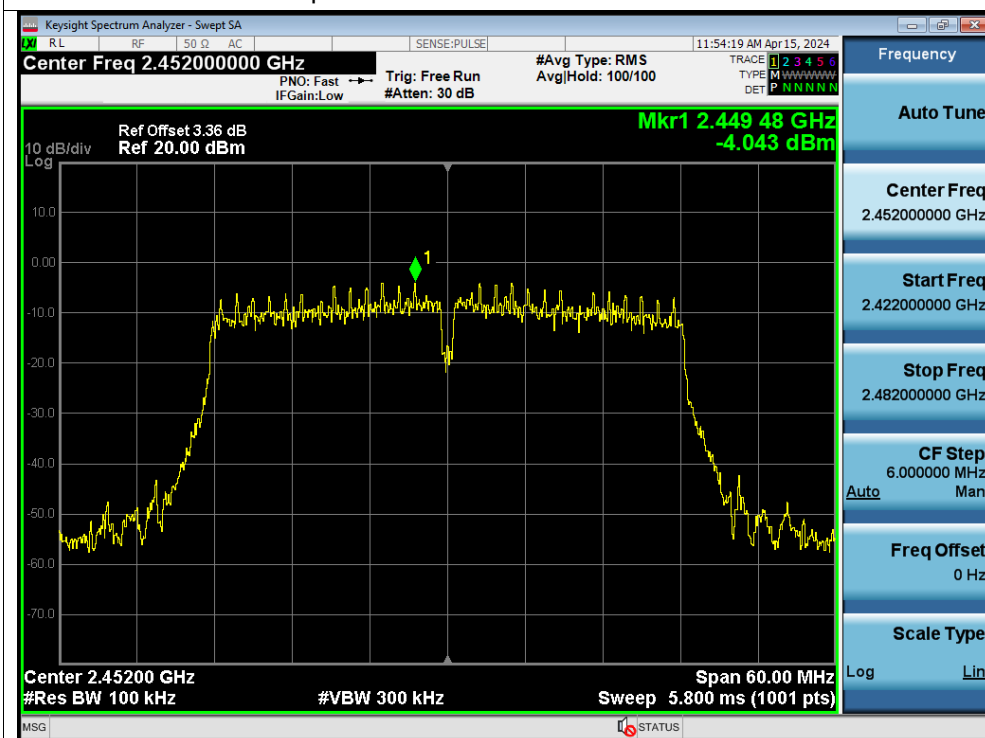
## Tx. Spurious NVNT n40 2437MHz Ant1 Ref



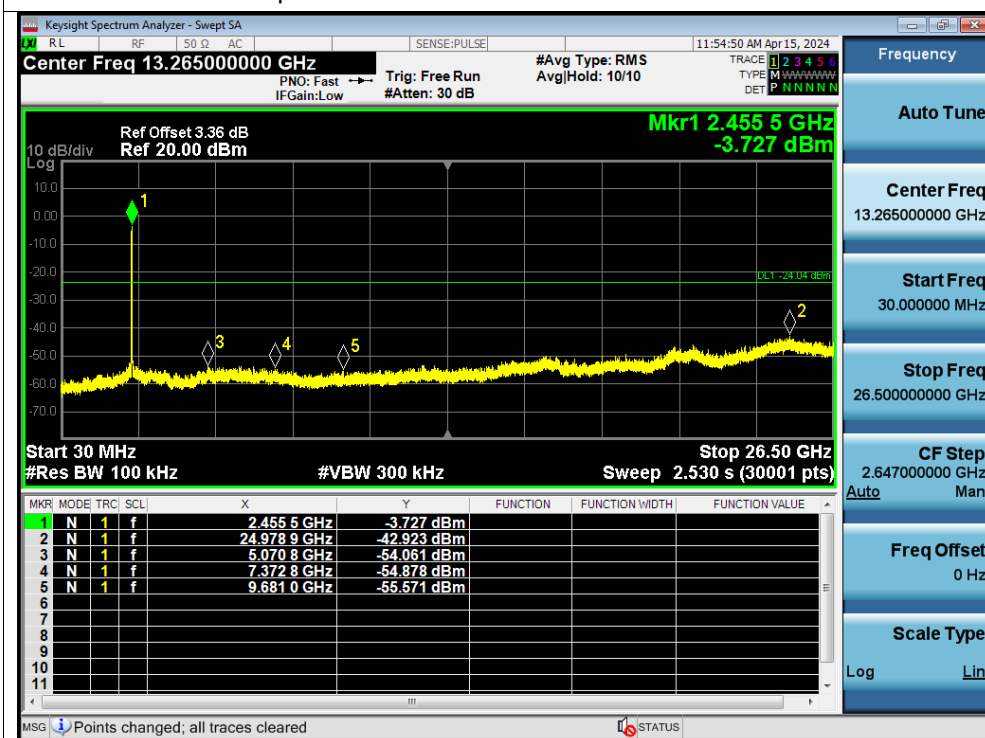
## Tx. Spurious NVNT n40 2437MHz Ant1 Emission



## Tx. Spurious NVNT n40 2452MHz Ant1 Ref

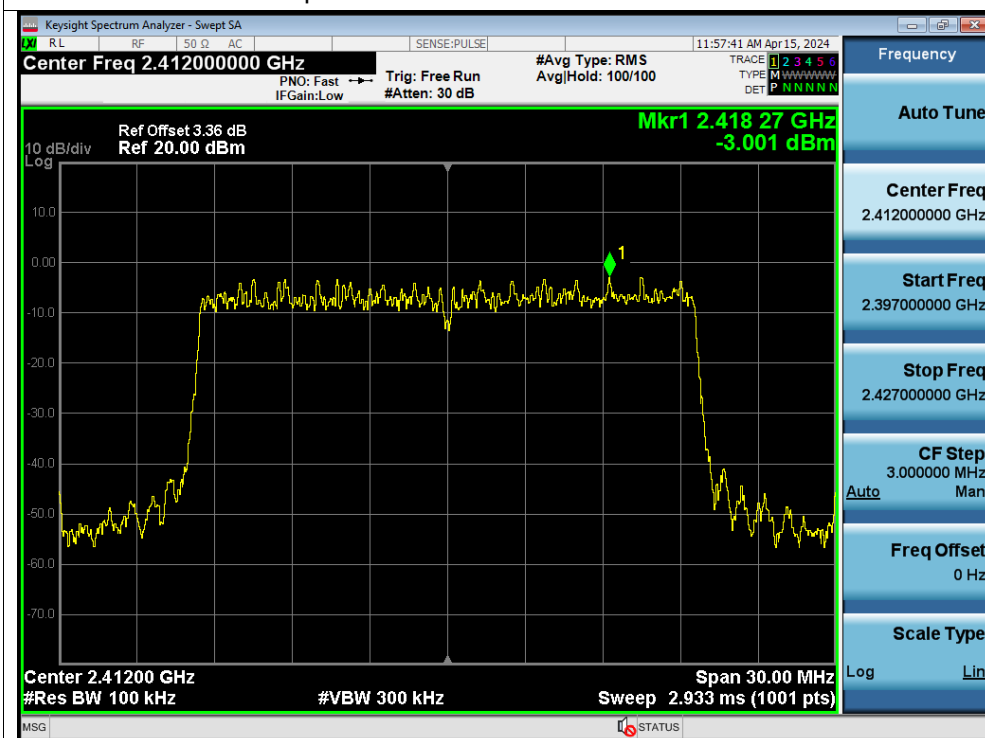


## Tx. Spurious NVNT n40 2452MHz Ant1 Emission

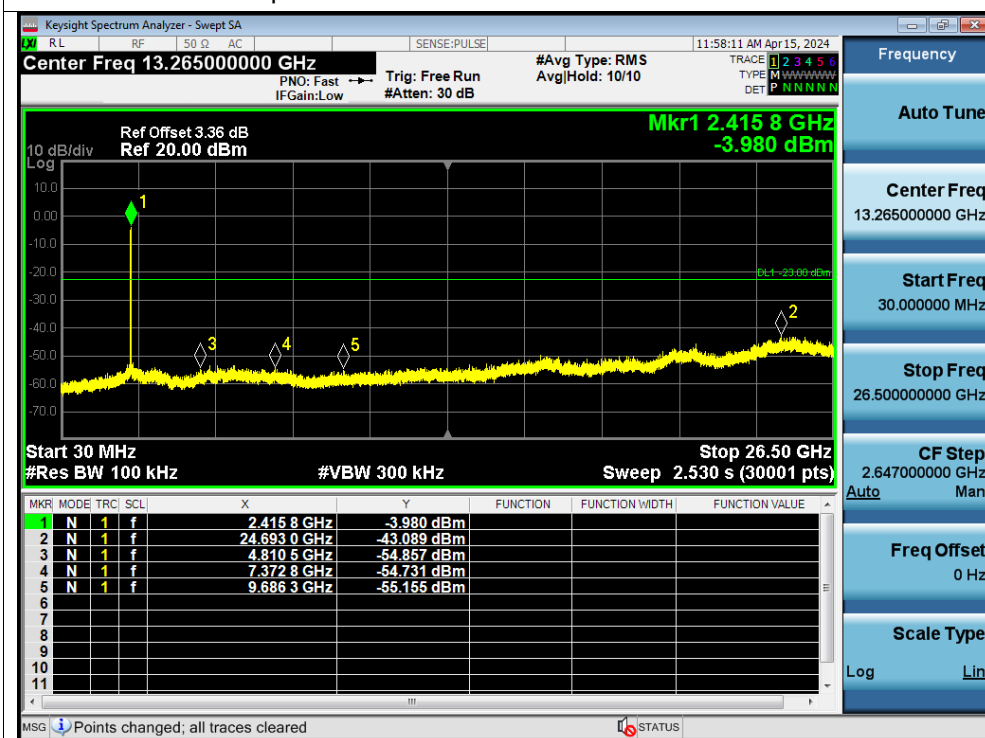




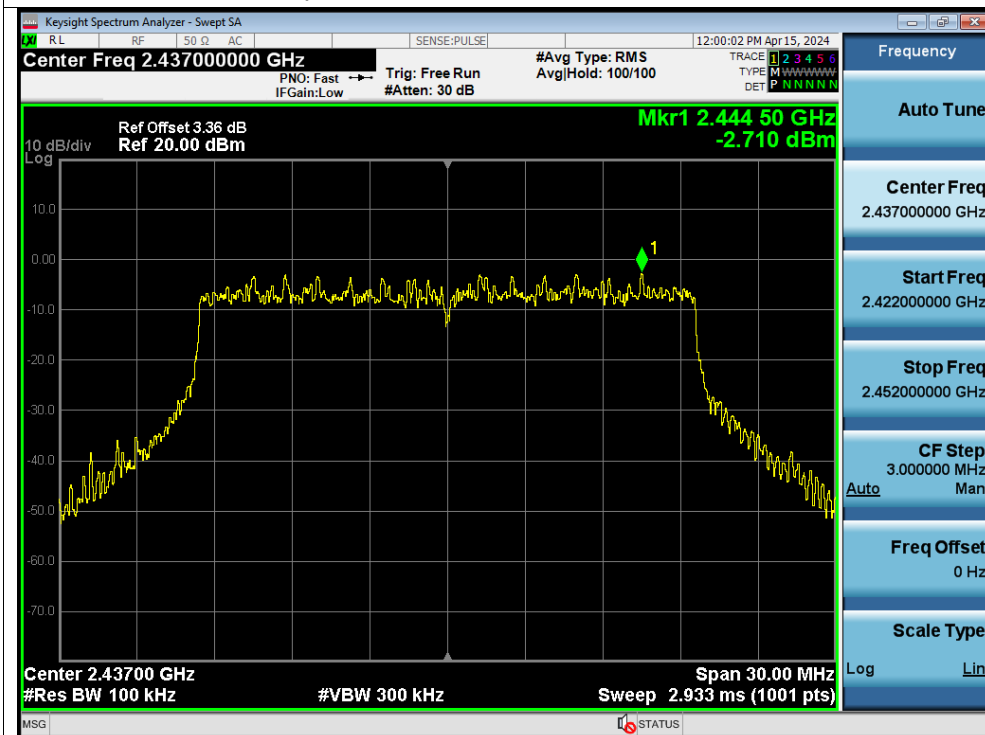
## Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



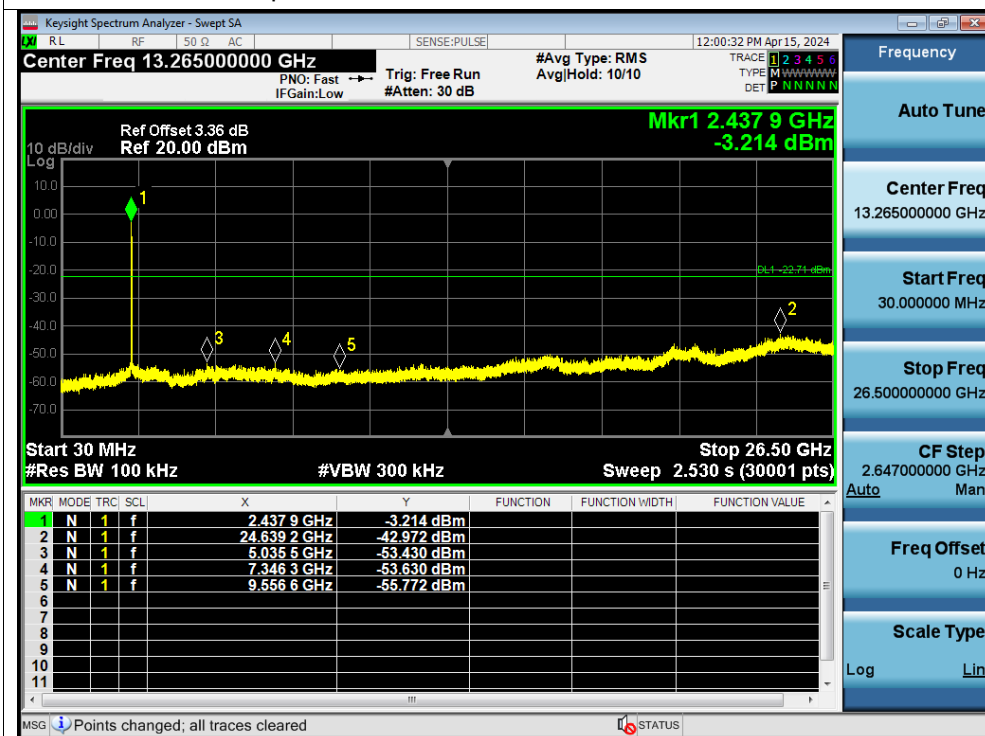
## Tx. Spurious NVNT ax20 2412MHz Ant1 Emission



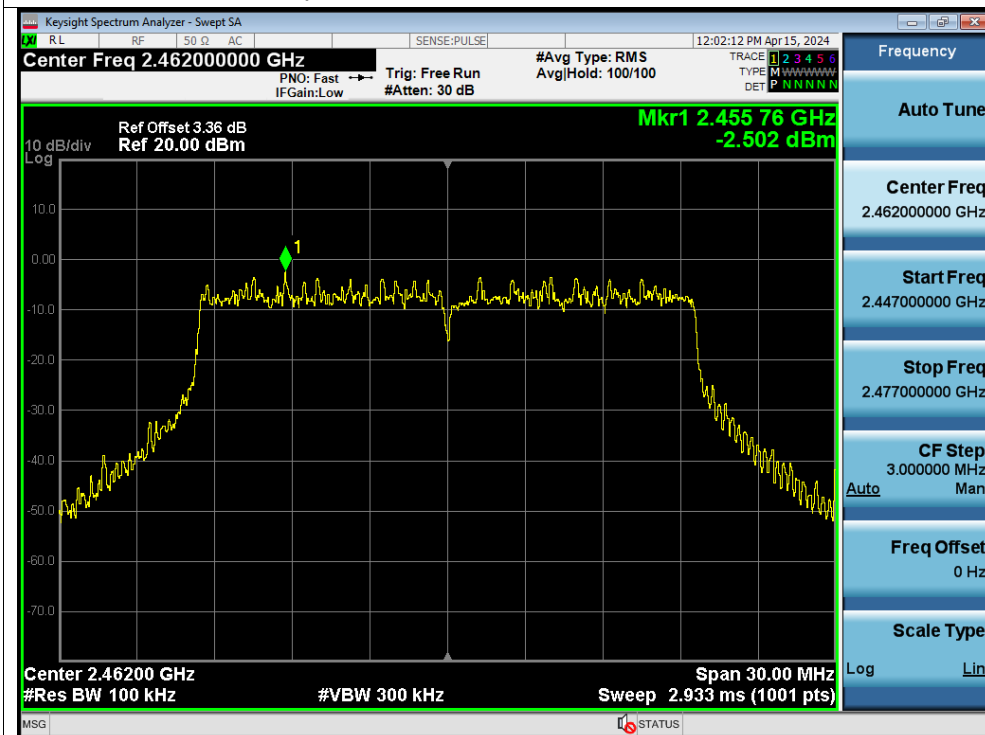
## Tx. Spurious NVNT ax20 2437MHz Ant1 Ref



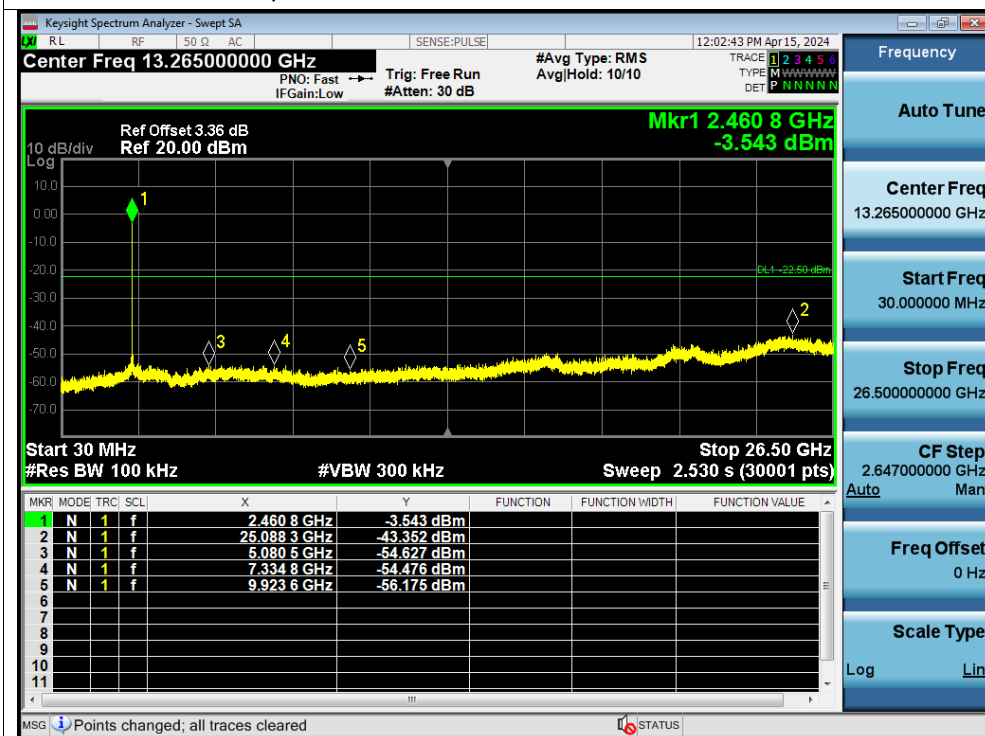
## Tx. Spurious NVNT ax20 2437MHz Ant1 Emission



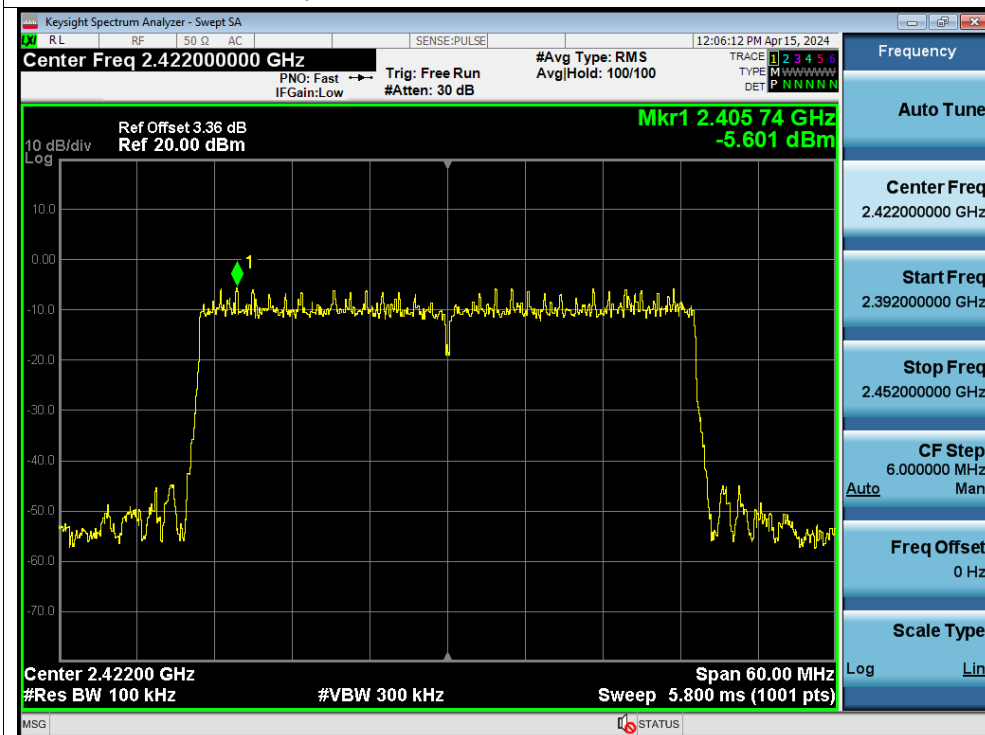
## Tx. Spurious NVNT ax20 2462MHz Ant1 Ref



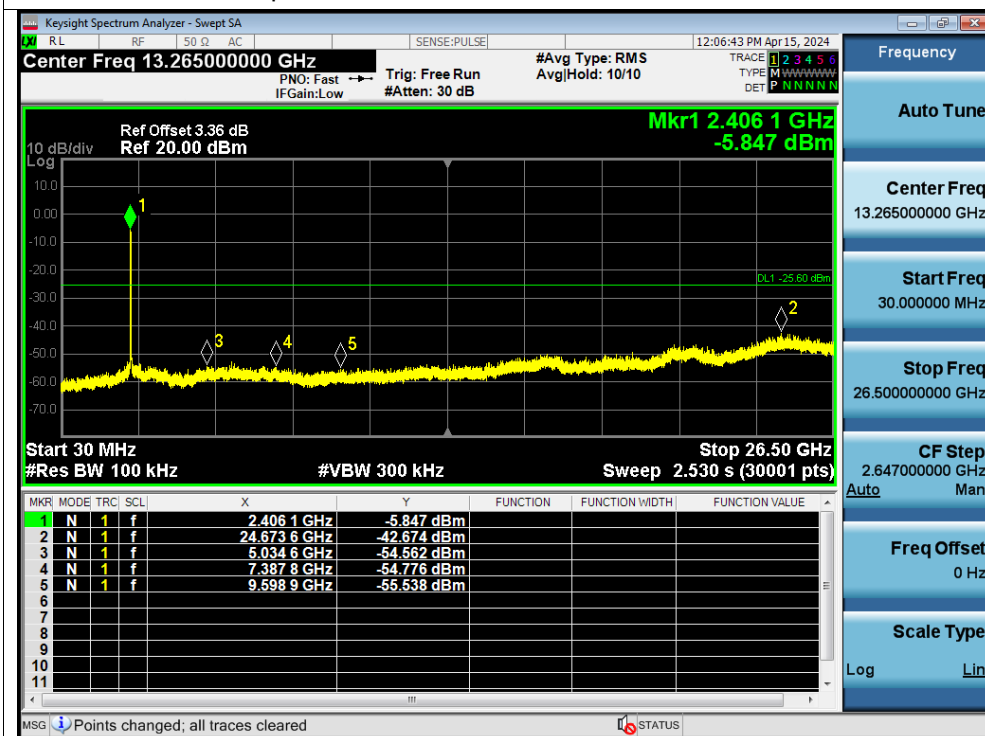
## Tx. Spurious NVNT ax20 2462MHz Ant1 Emission



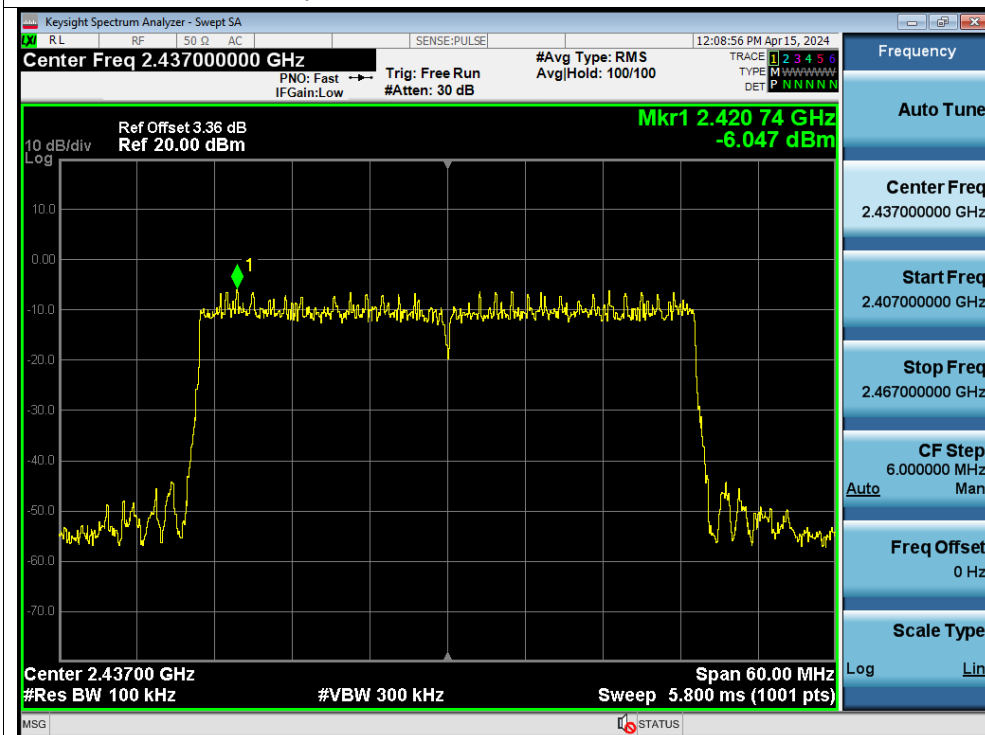
## Tx. Spurious NVNT ax40 2422MHz Ant1 Ref



## Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



## Tx. Spurious NVNT ax40 2437MHz Ant1 Ref



## Tx. Spurious NVNT ax40 2437MHz Ant1 Emission

