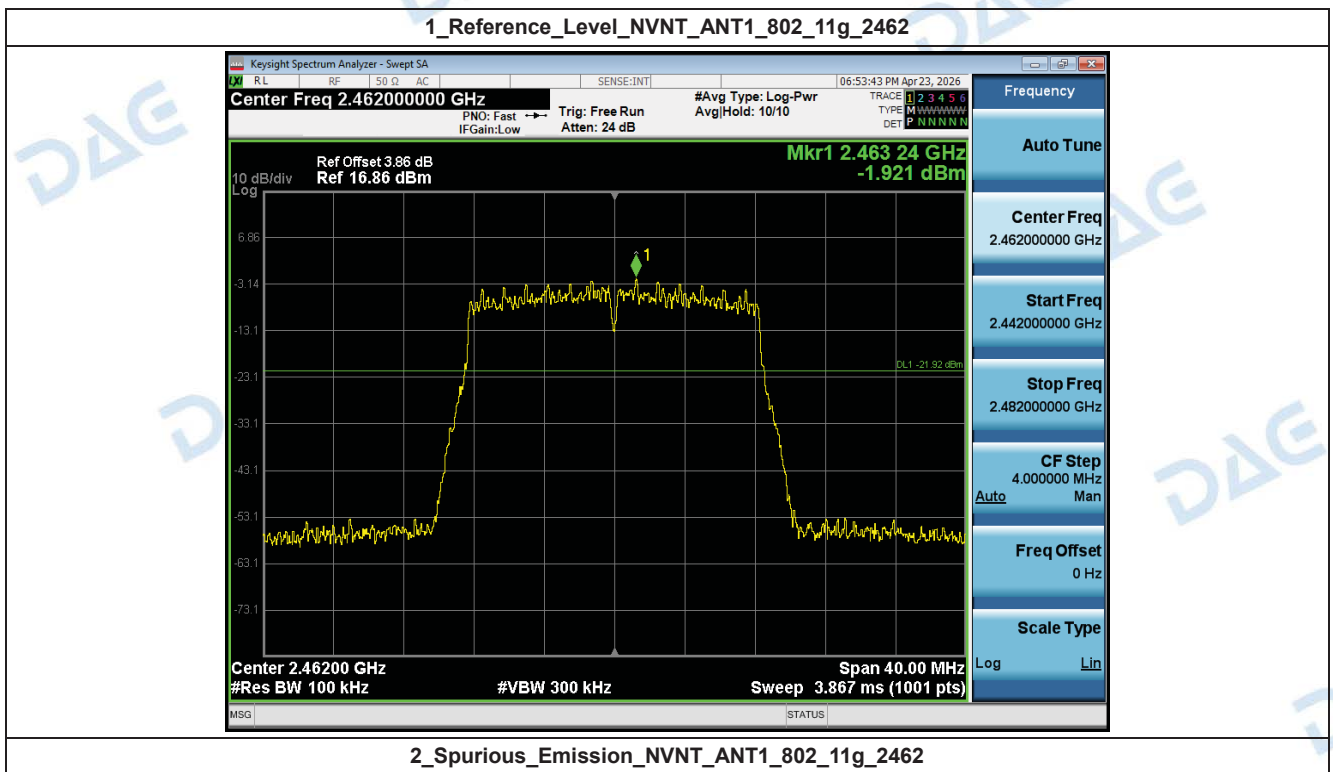
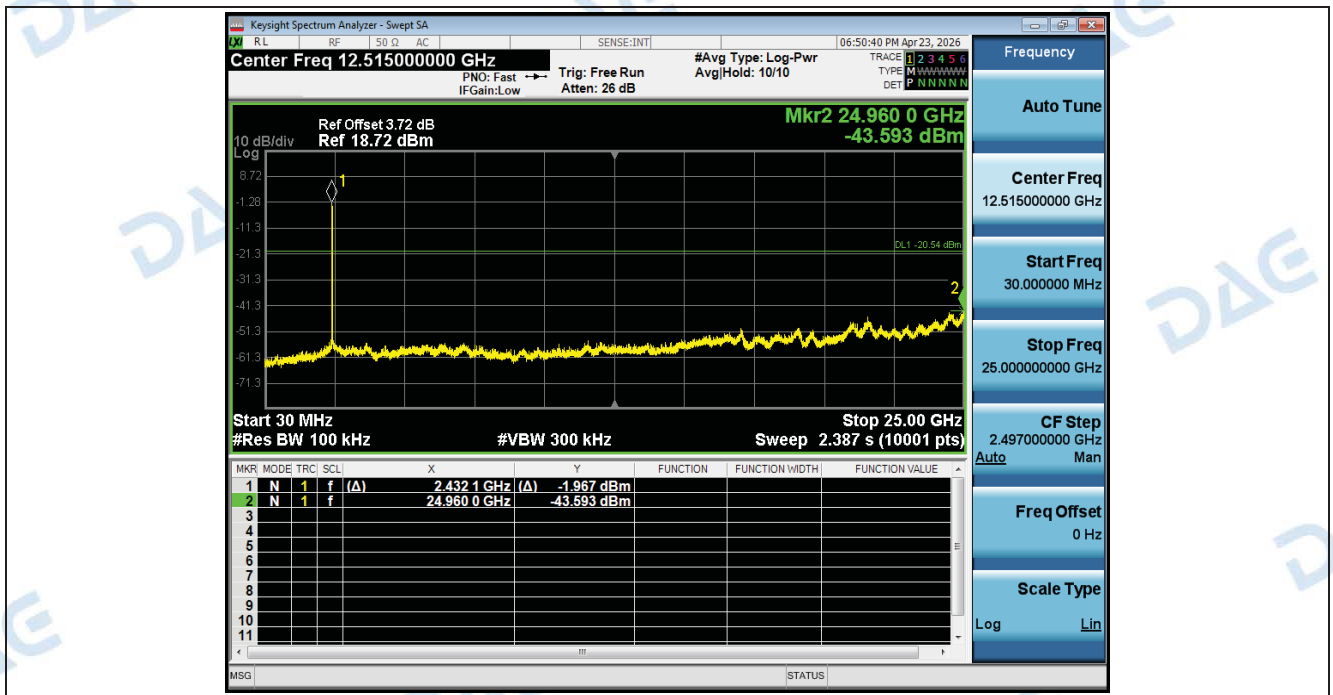
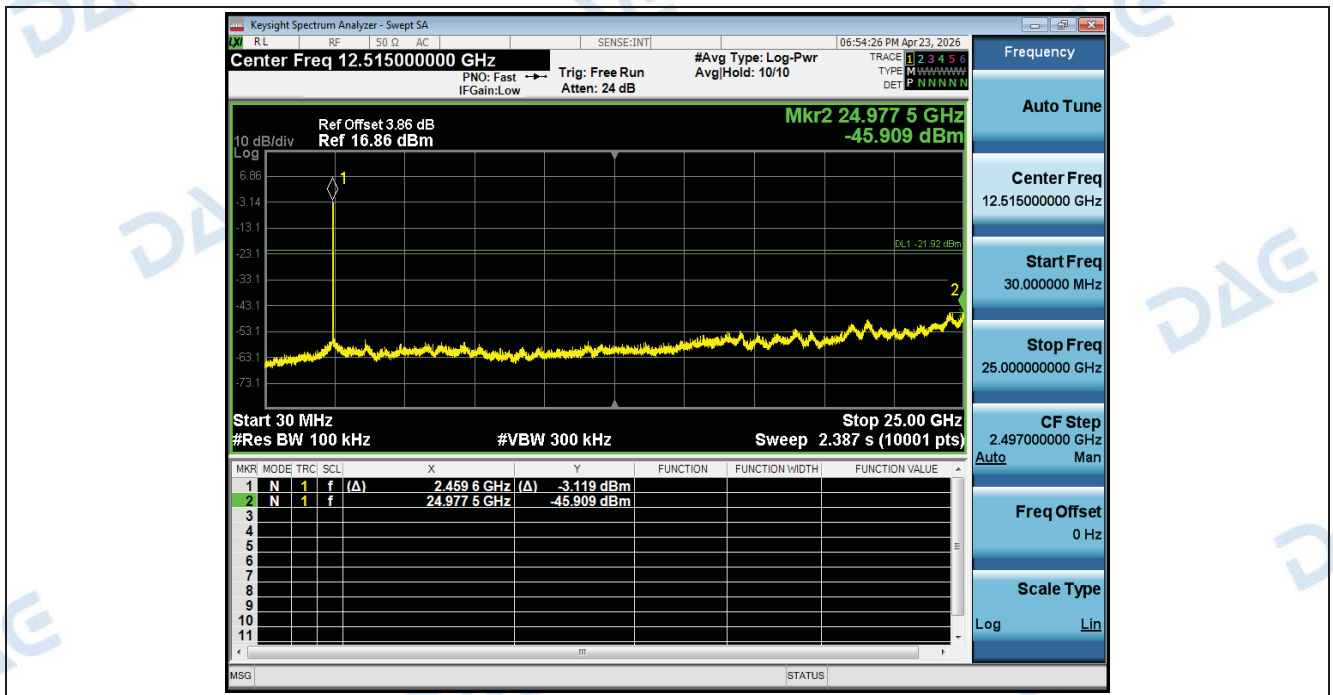


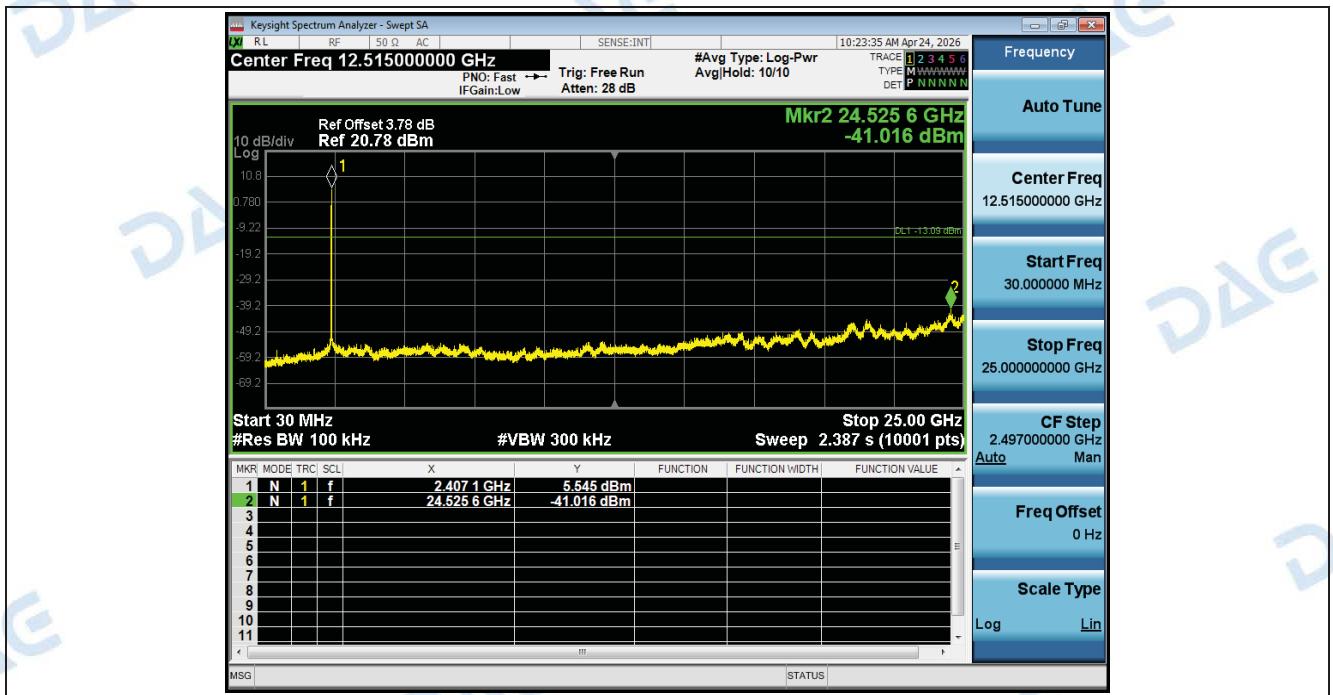




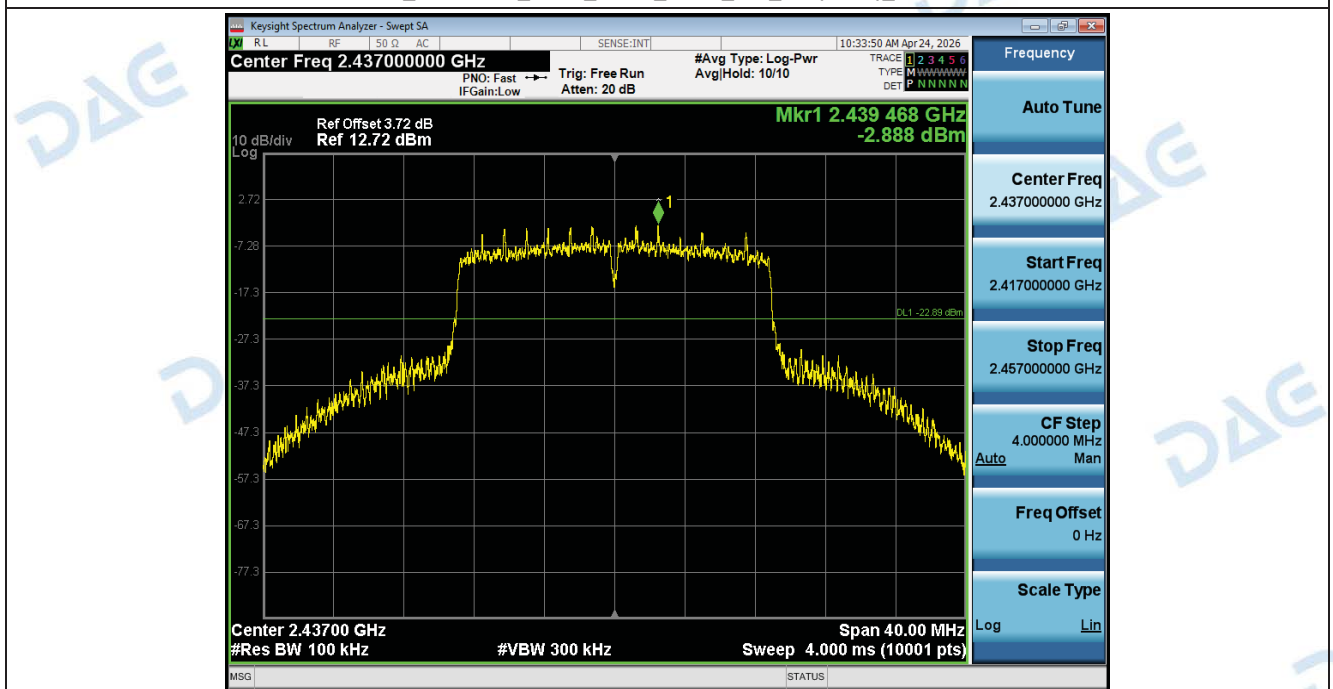
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2412



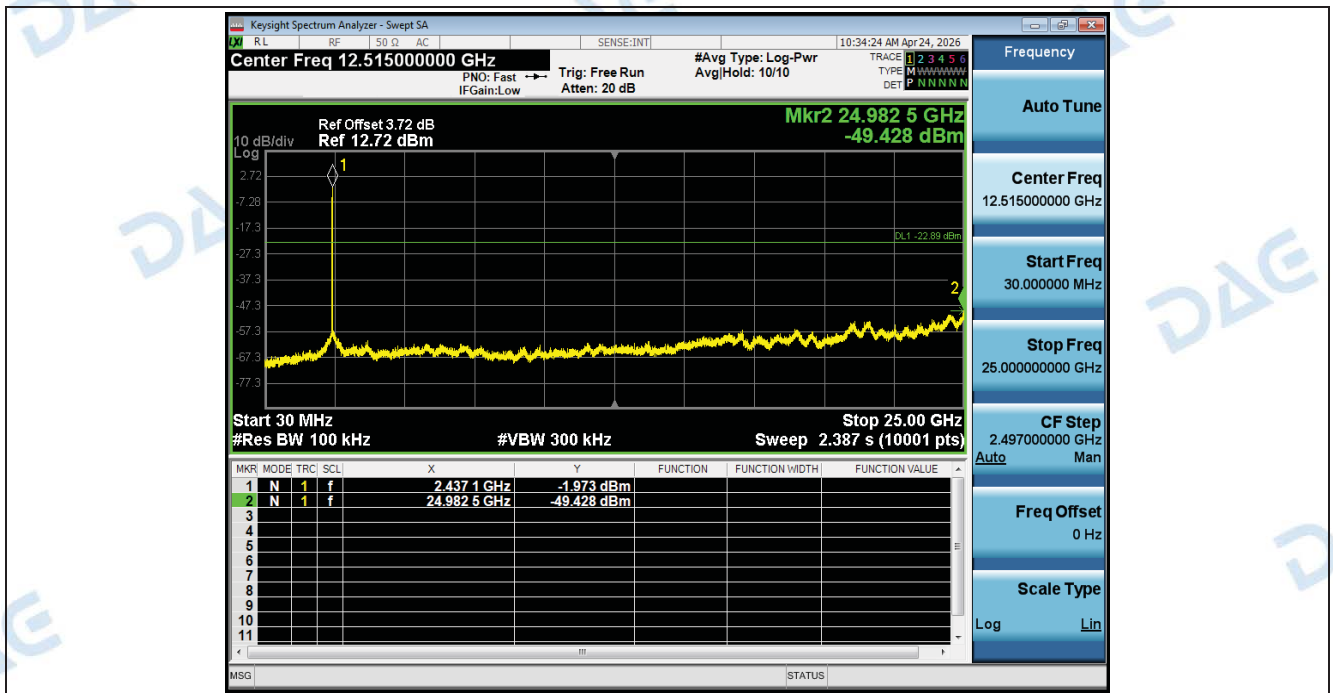
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT20)\_2412



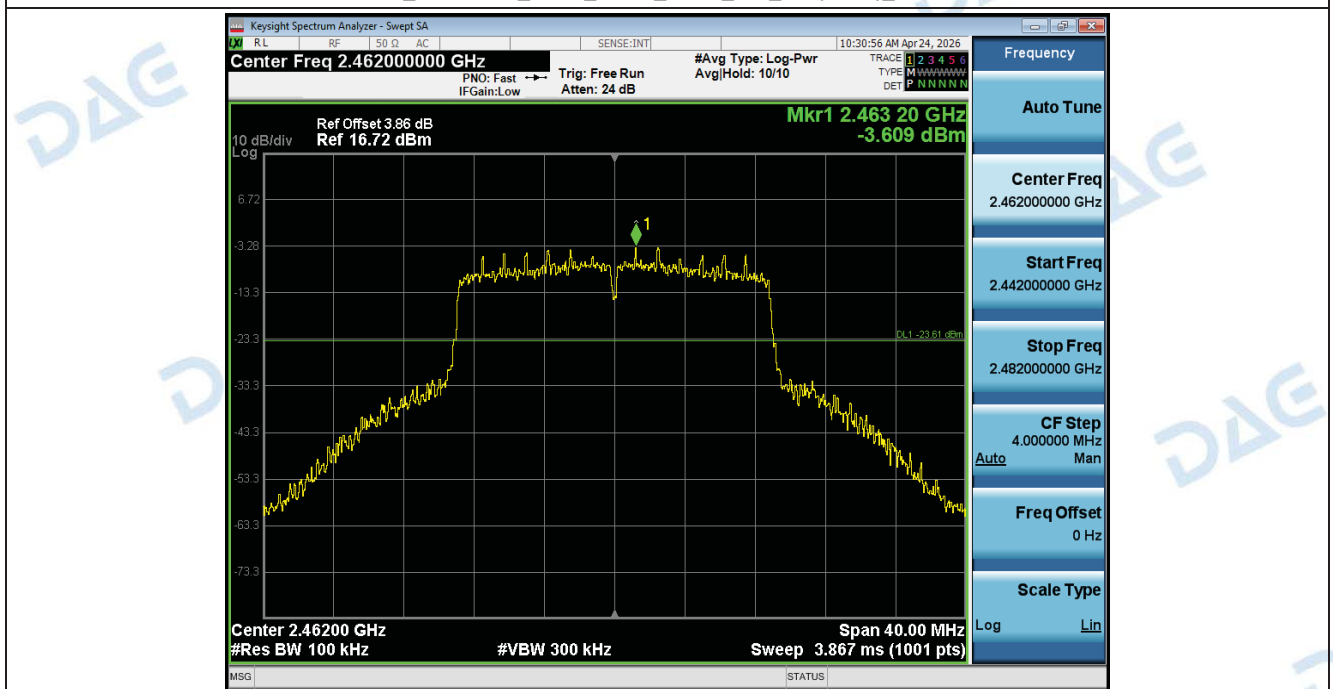
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2437



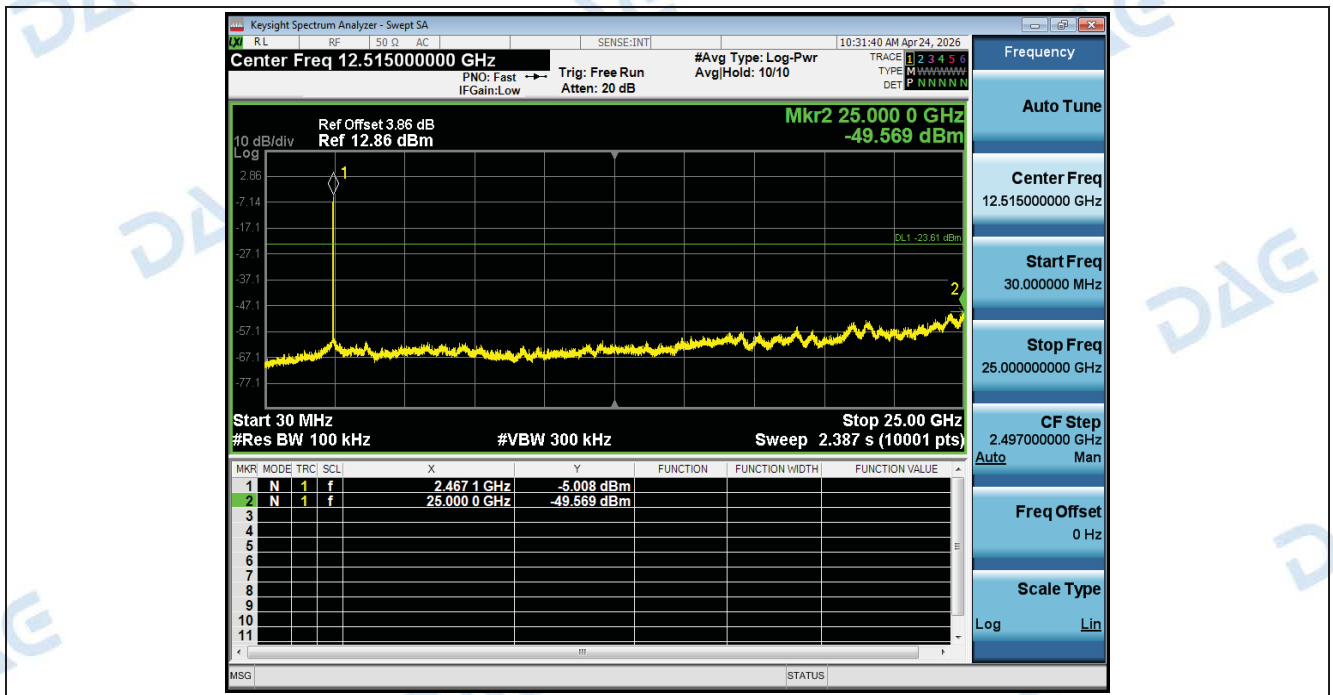
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT20)\_2437



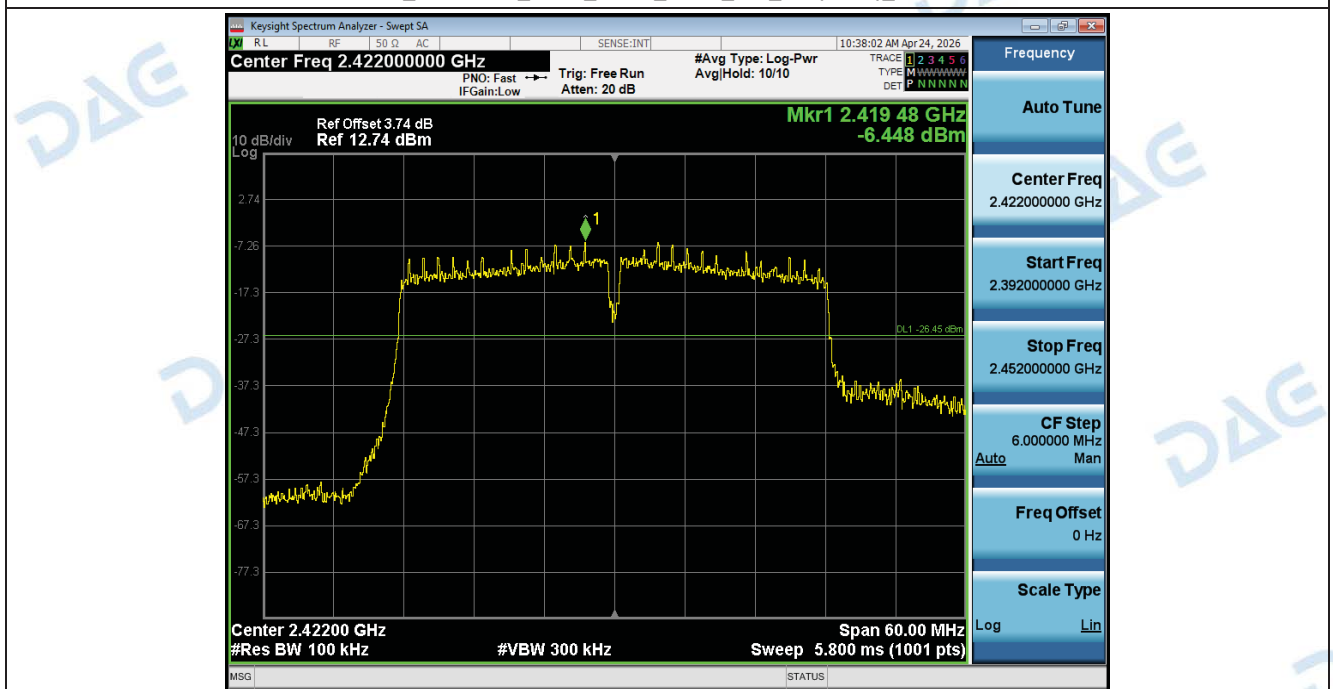
1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2462



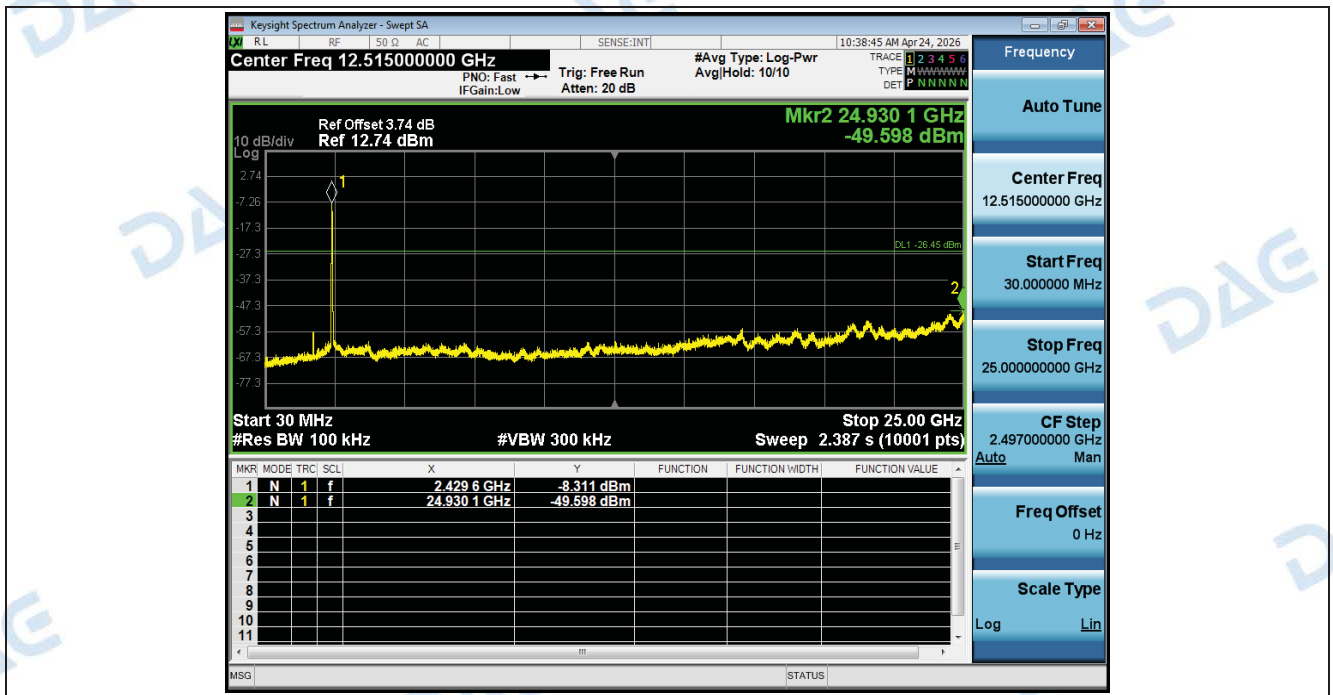
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT20)\_2462



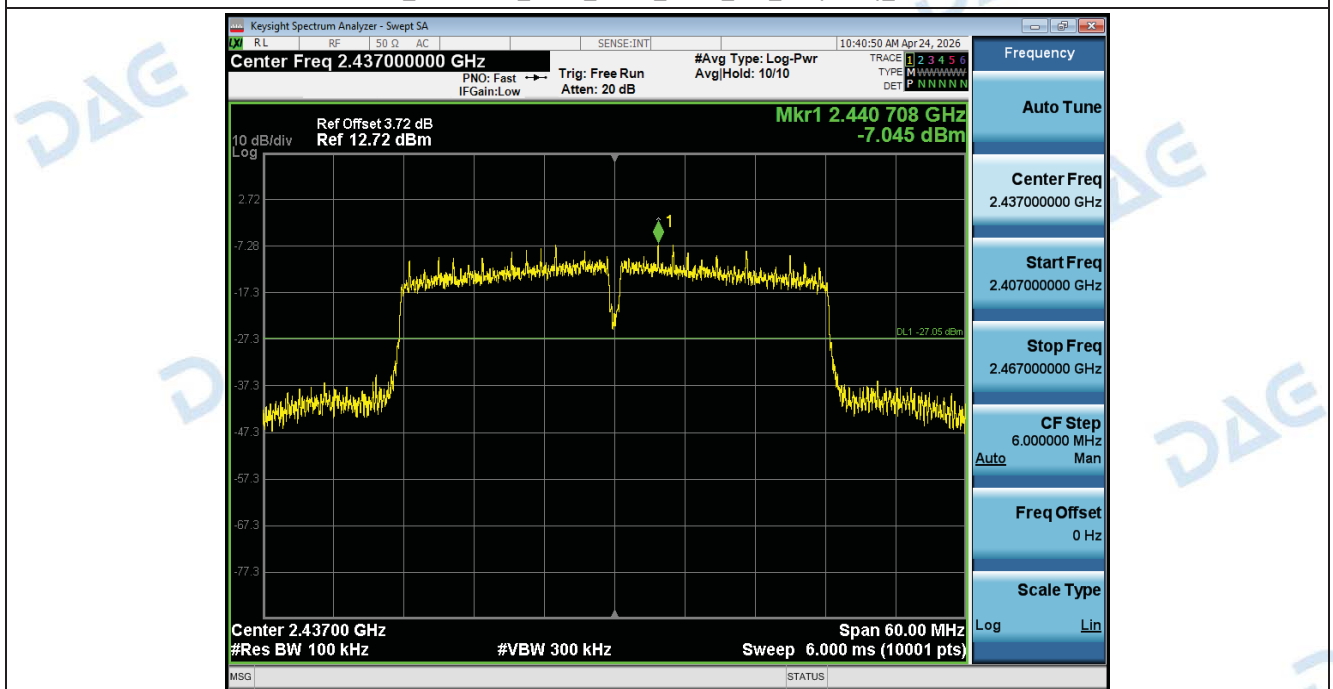
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2422



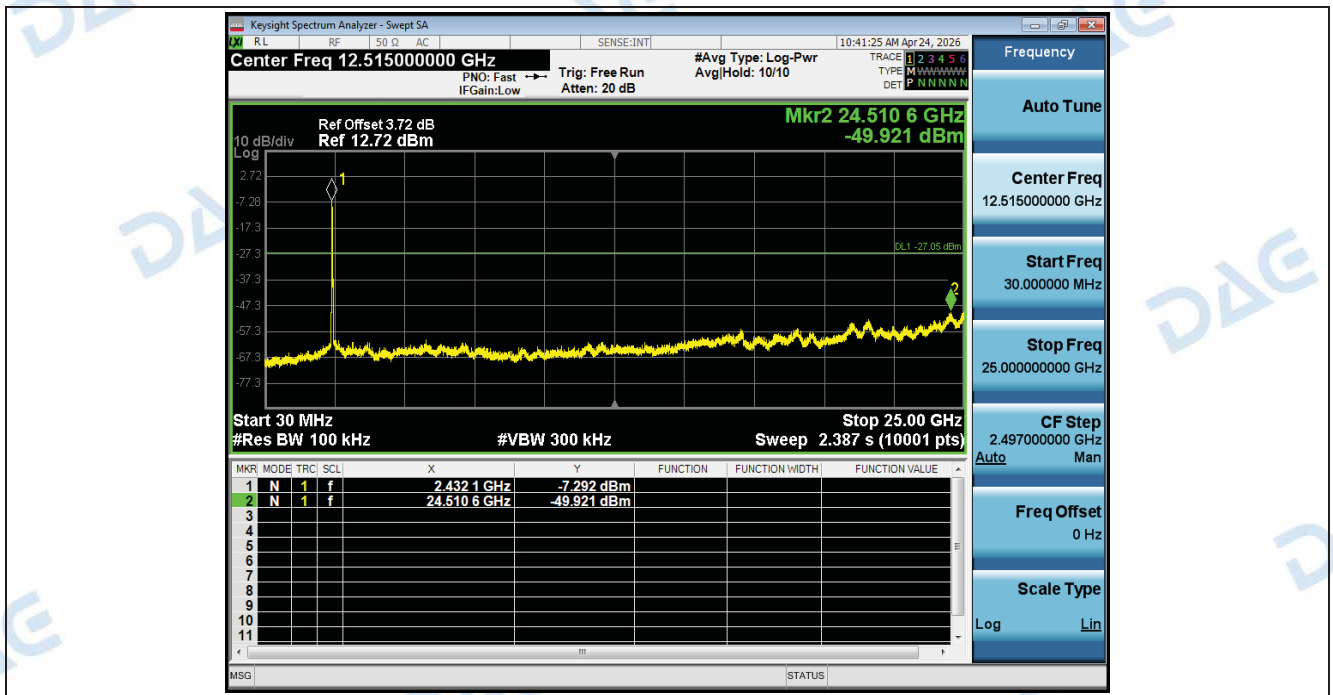
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2422



### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2437



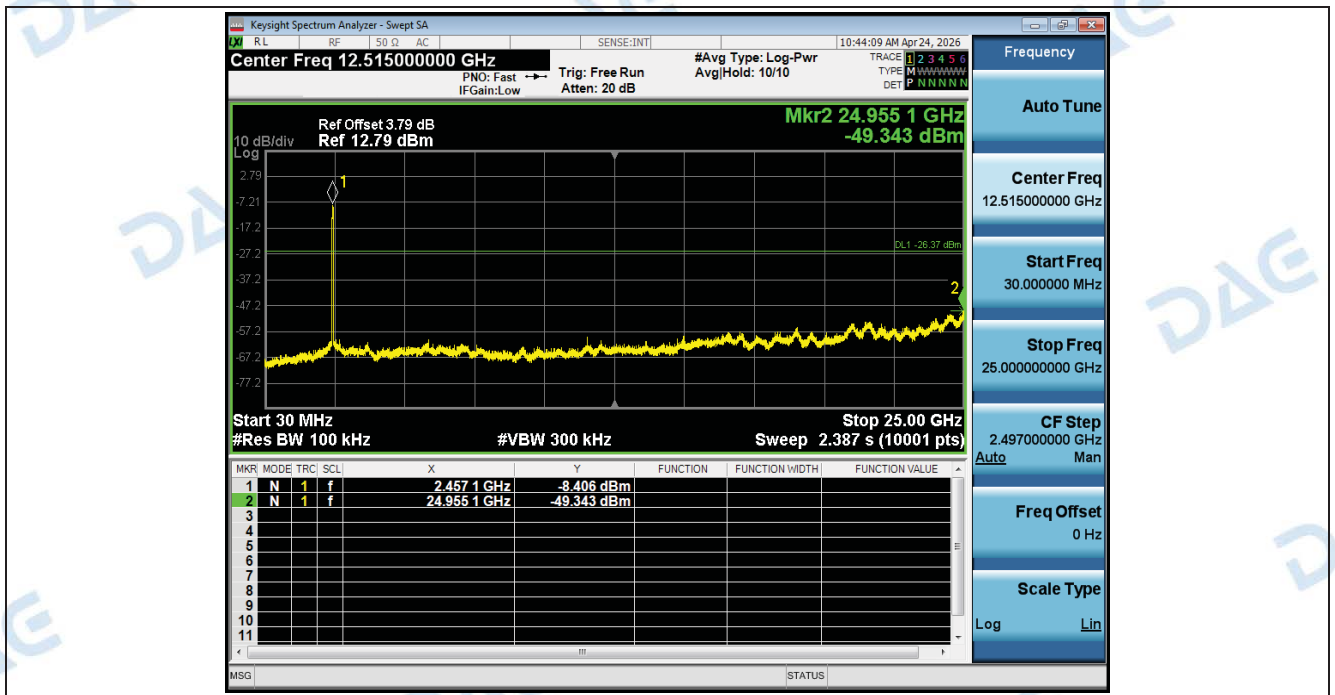
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2437



1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2452



2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2452

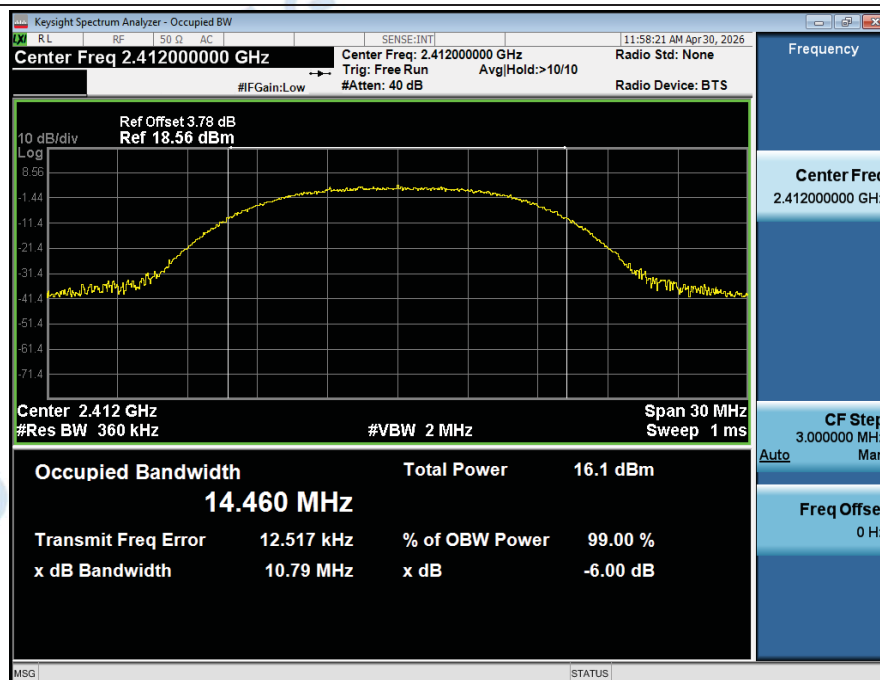


## FCC\_2.4G\_WIFI ANT2 Test Data

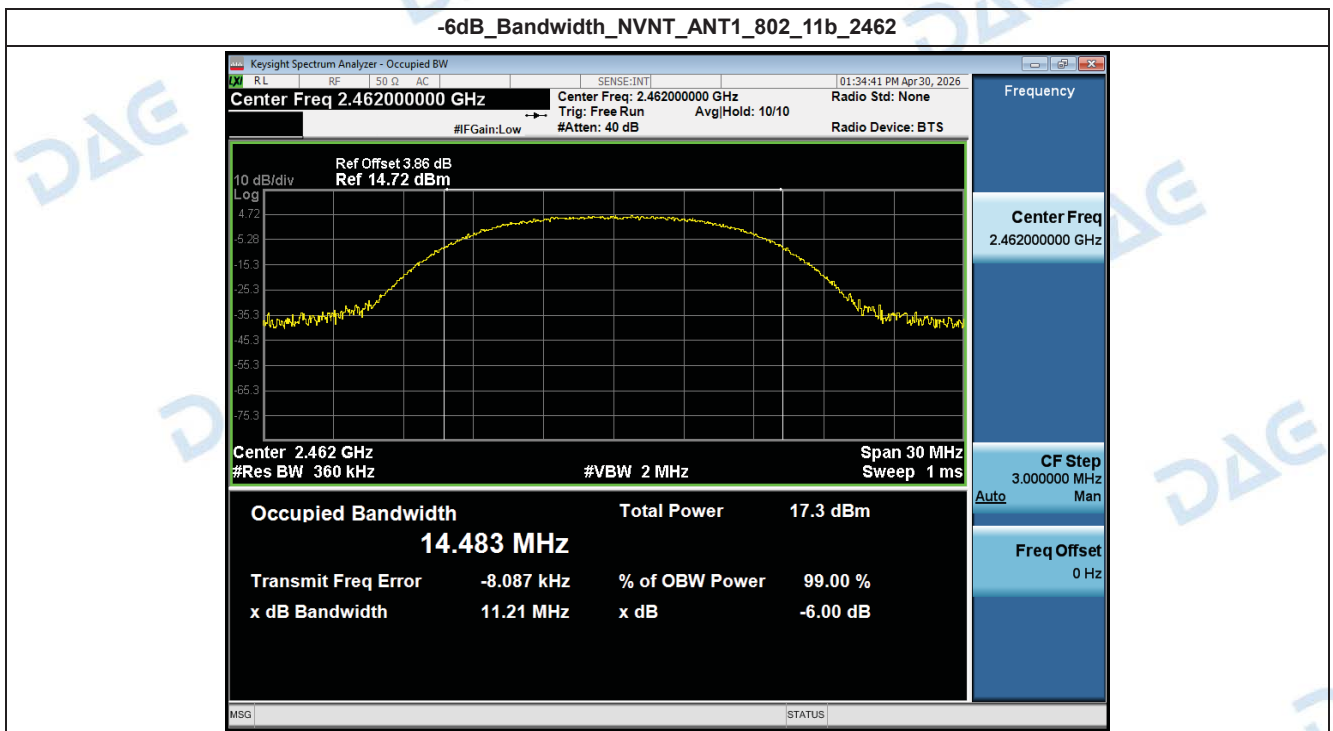
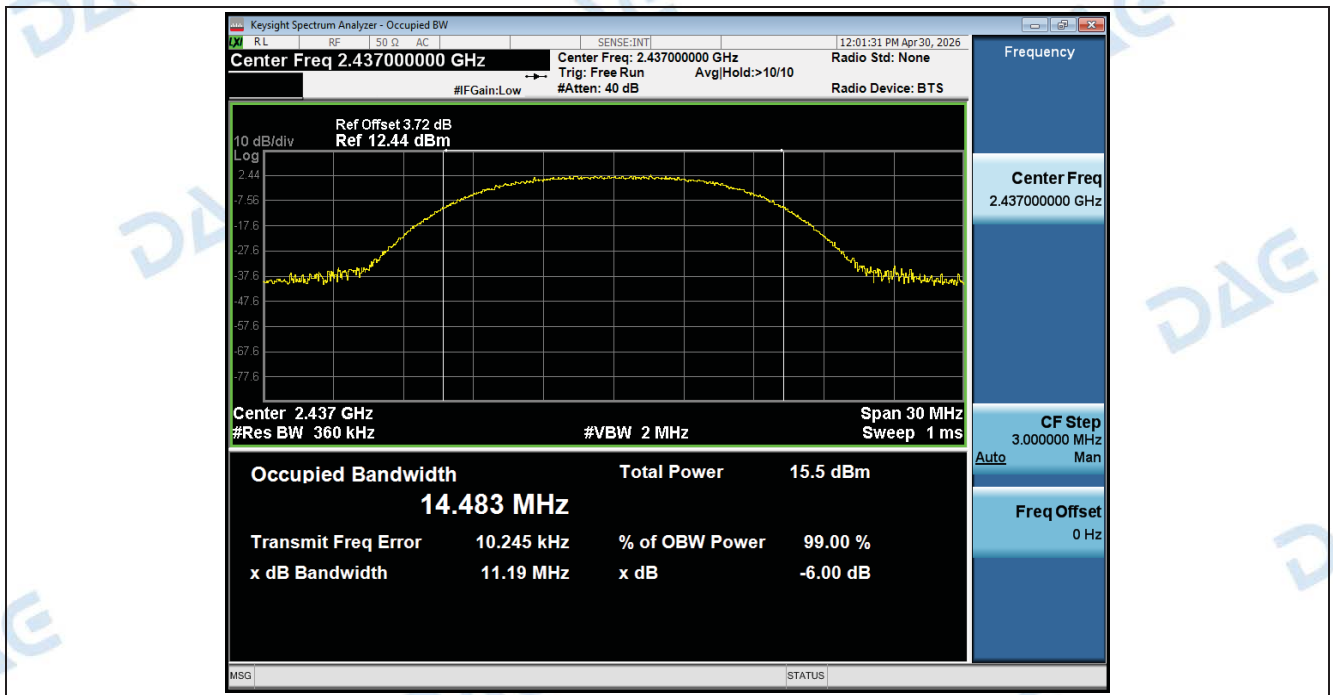
### 1. -6dB Bandwidth

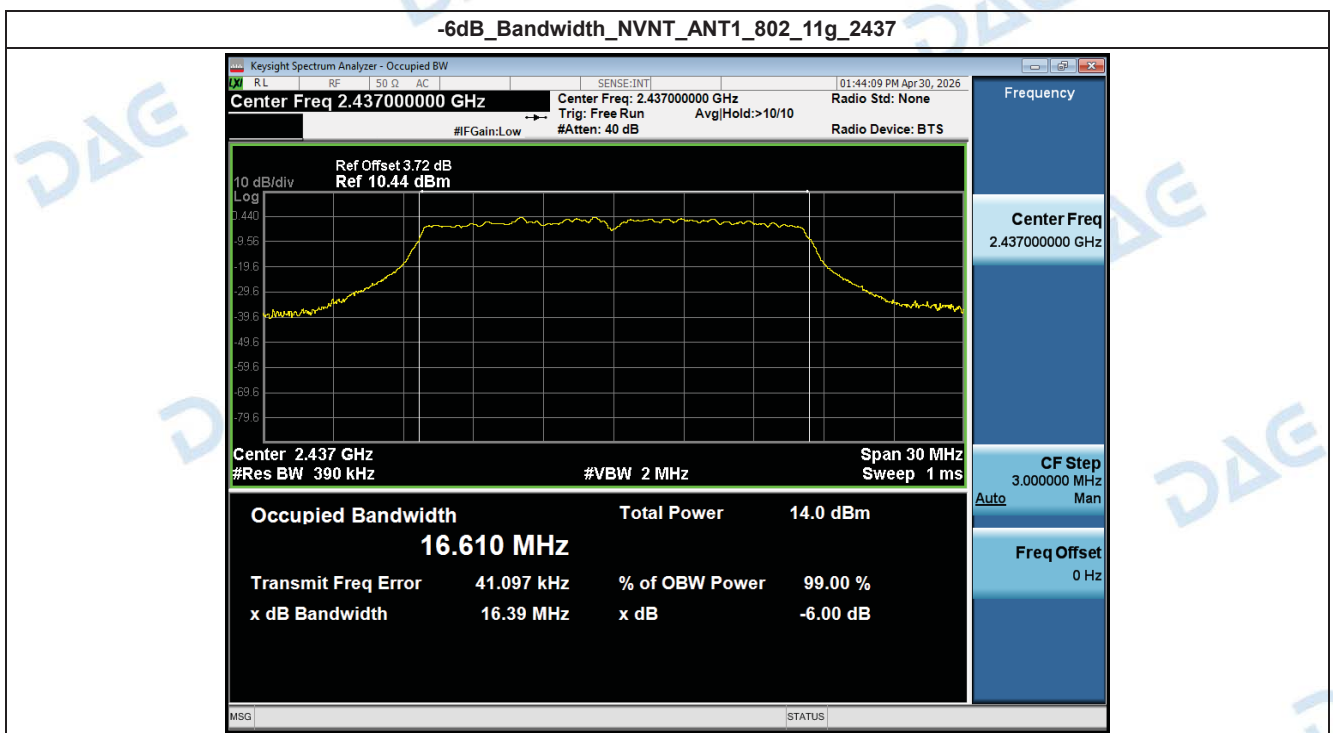
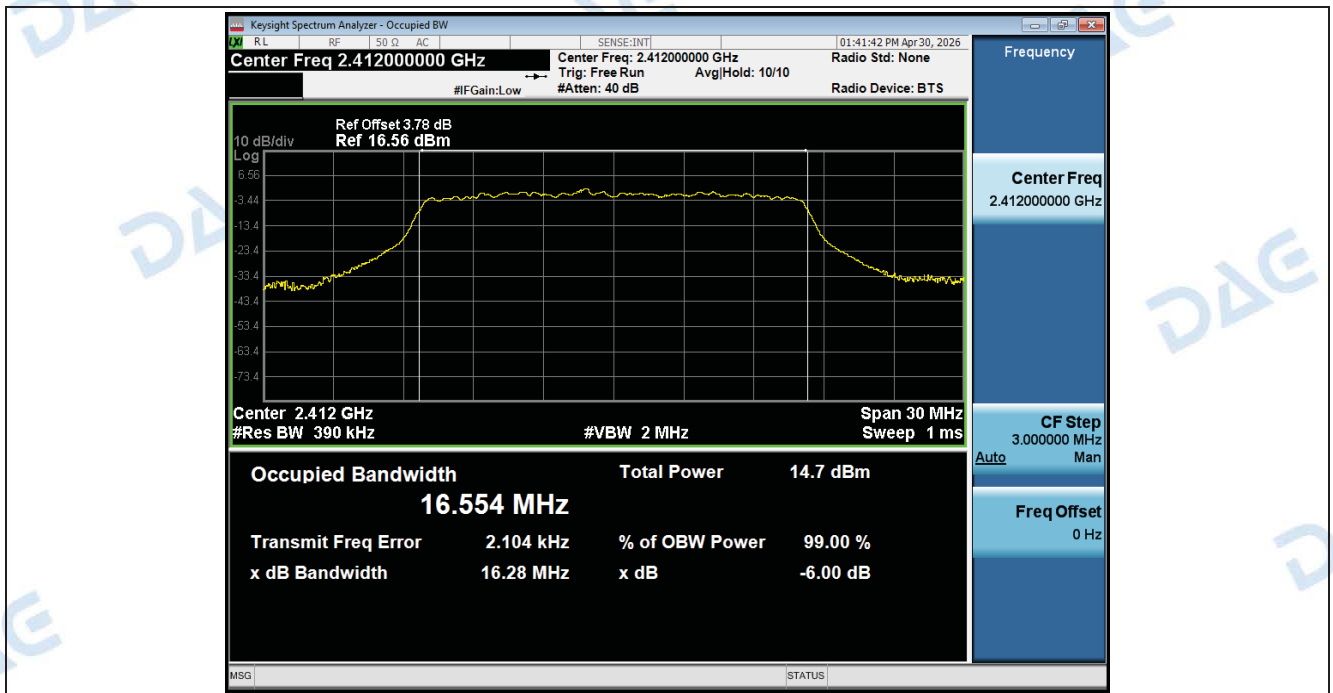
| Condition | Antenna | Modulation    | Frequency (MHz) | -6dB BW(MHz) | limit(kHz) | Result |
|-----------|---------|---------------|-----------------|--------------|------------|--------|
| NVNT      | ANT1    | 802.11b       | 2412.00         | 10.79        | 500        | Pass   |
| NVNT      | ANT1    | 802.11b       | 2437.00         | 11.19        | 500        | Pass   |
| NVNT      | ANT1    | 802.11b       | 2462.00         | 11.21        | 500        | Pass   |
| NVNT      | ANT1    | 802.11g       | 2412.00         | 16.28        | 500        | Pass   |
| NVNT      | ANT1    | 802.11g       | 2437.00         | 16.39        | 500        | Pass   |
| NVNT      | ANT1    | 802.11g       | 2462.00         | 16.25        | 500        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00         | 17.52        | 500        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2437.00         | 17.35        | 500        | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00         | 17.48        | 500        | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00         | 36.27        | 500        | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2437.00         | 36.16        | 500        | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00         | 36.18        | 500        | Pass   |

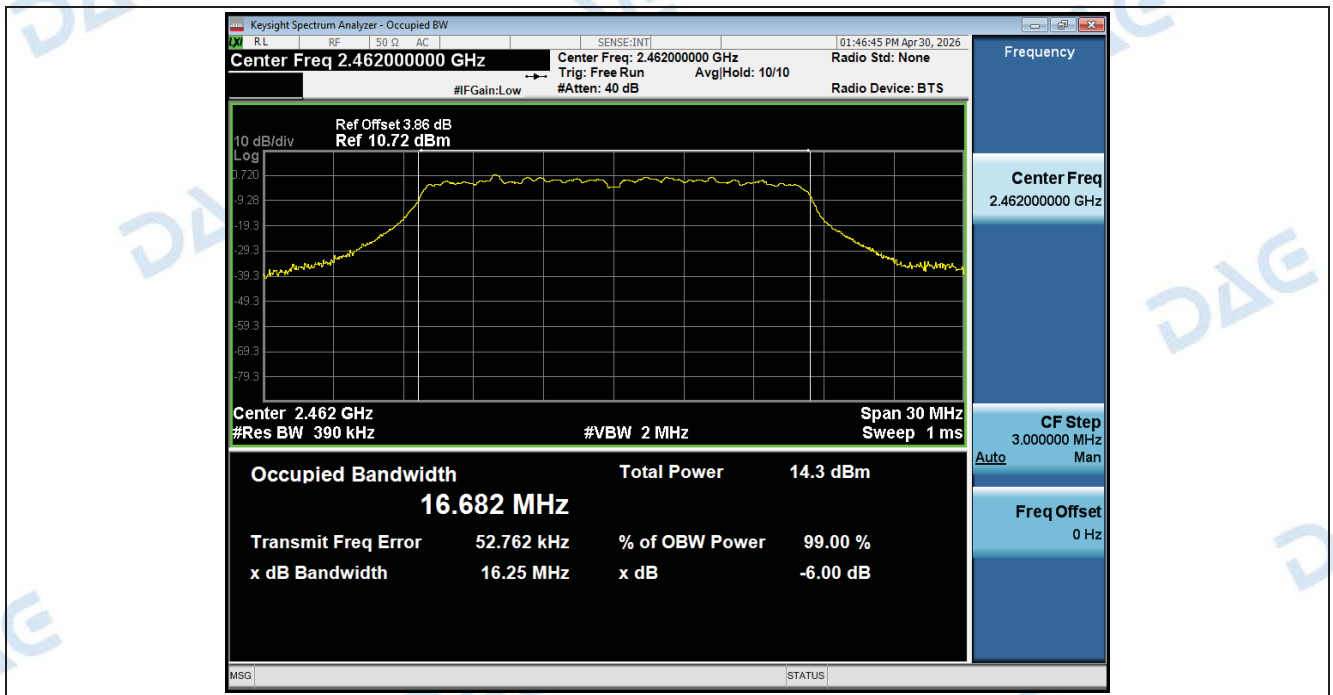
-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11b\_2412



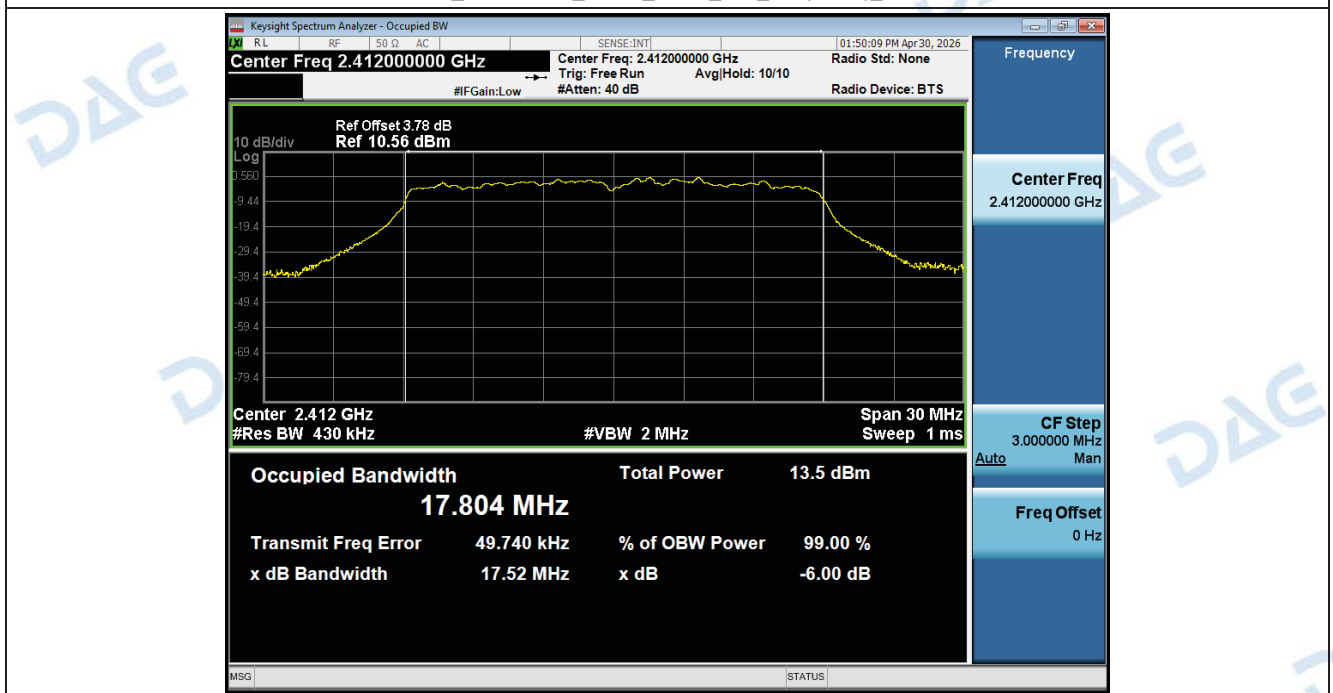
-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11b\_2437



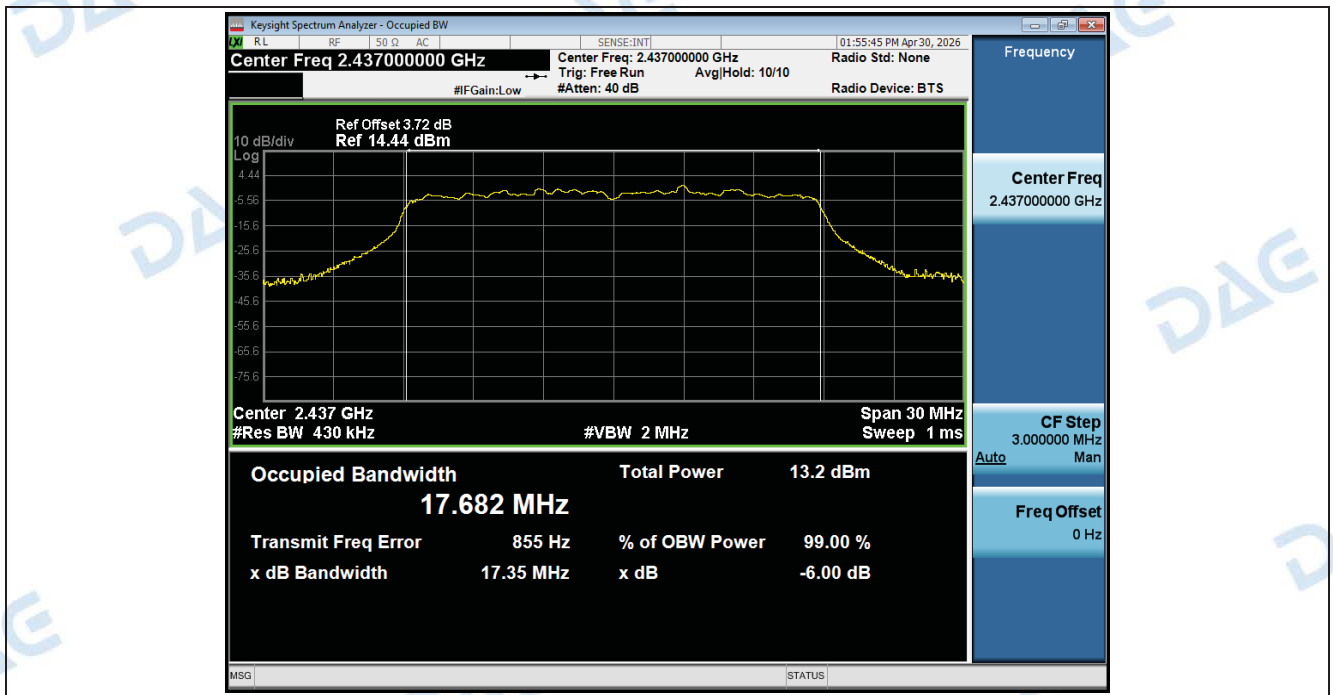




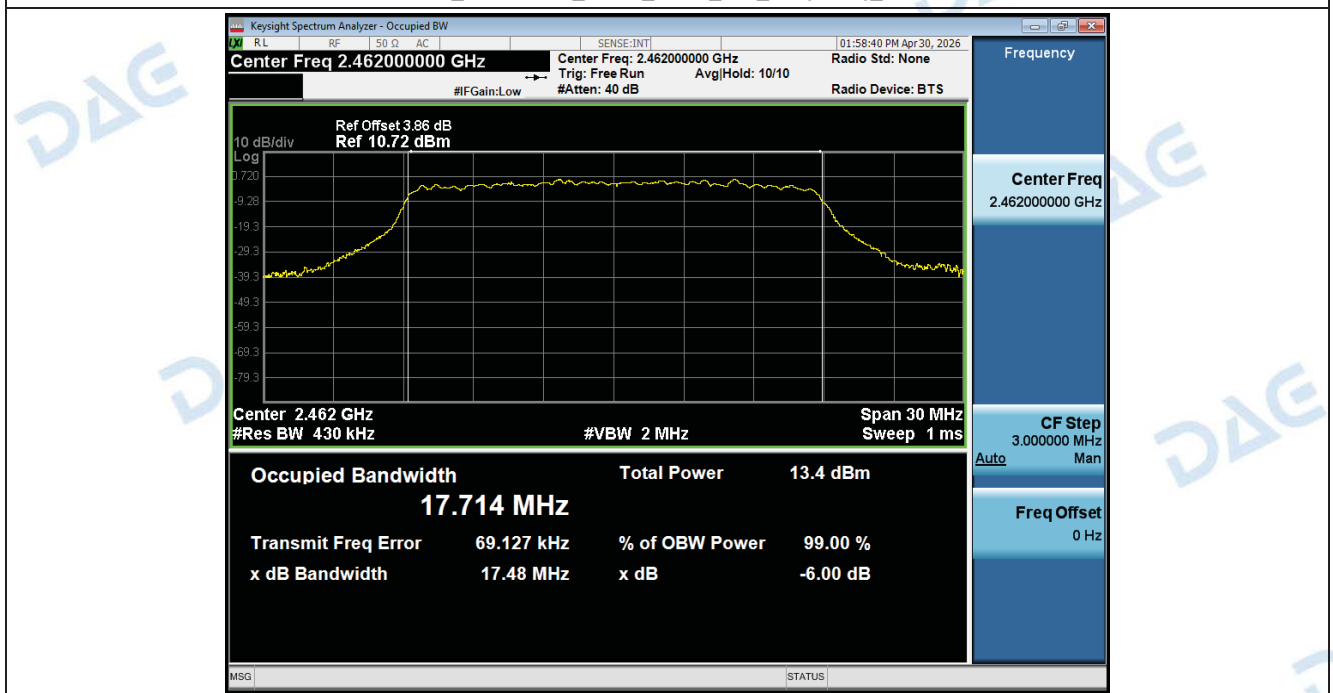
-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2412



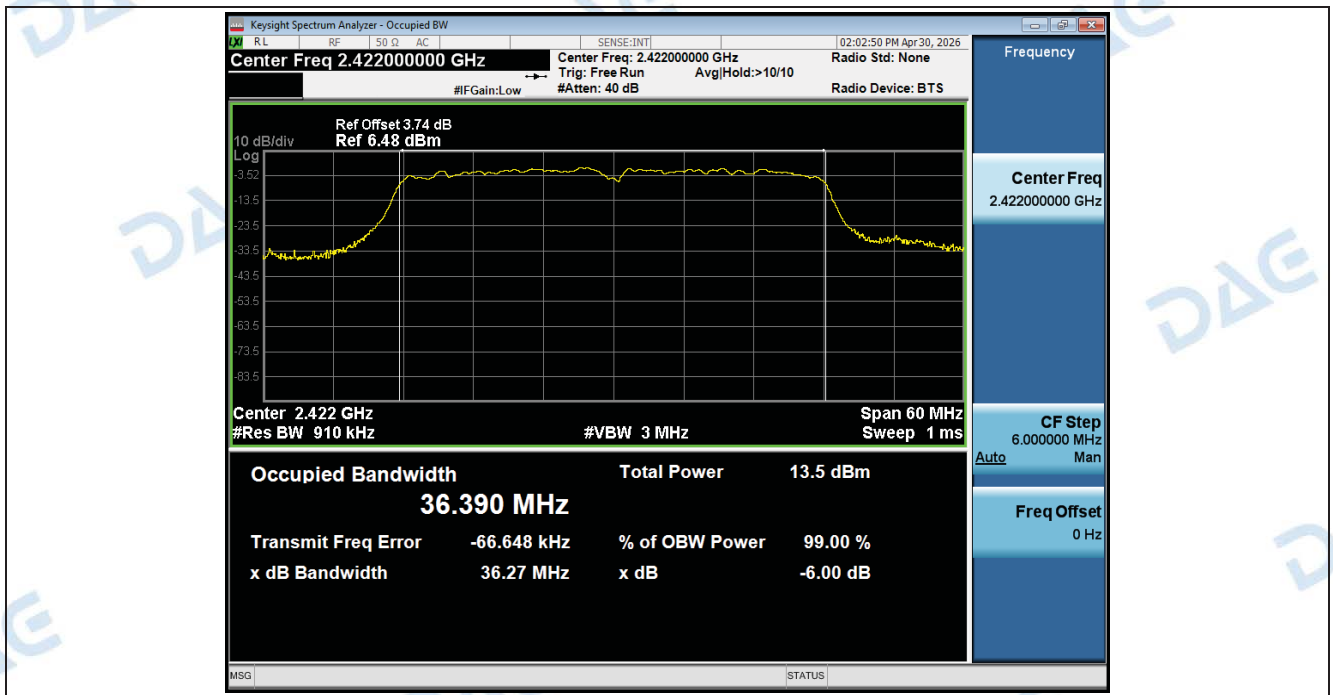
-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2437



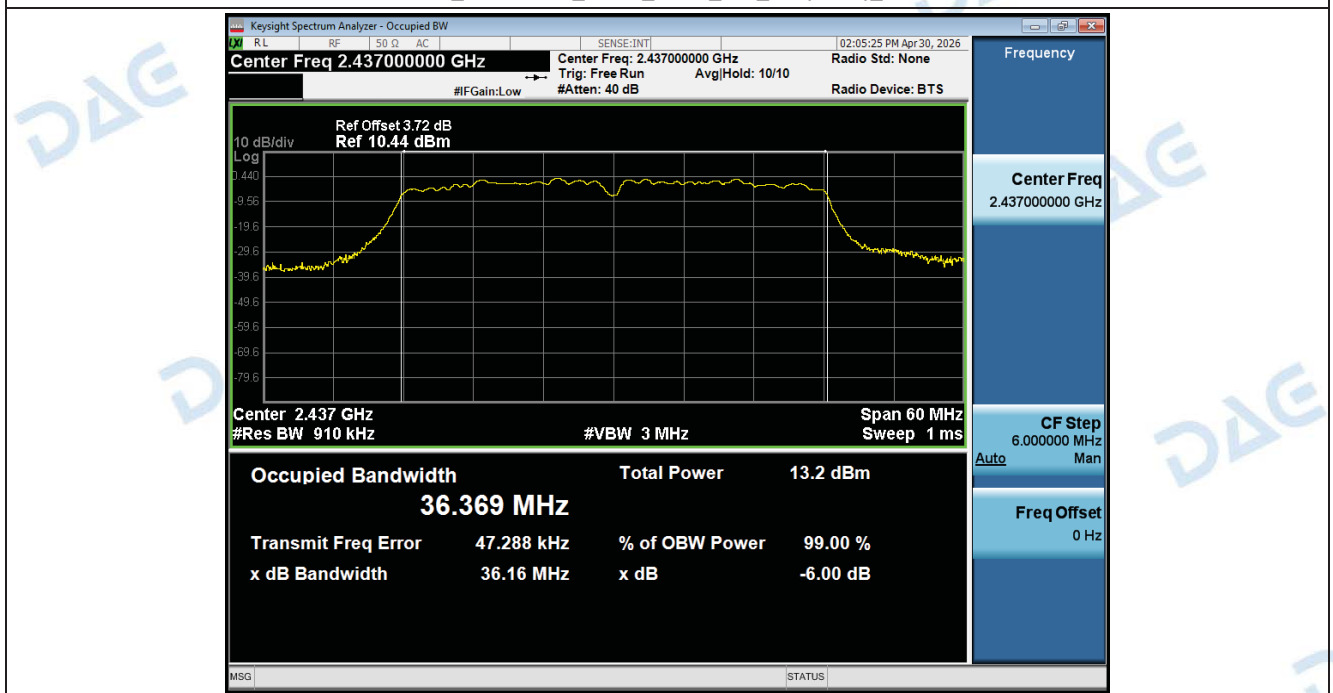
**-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2462**



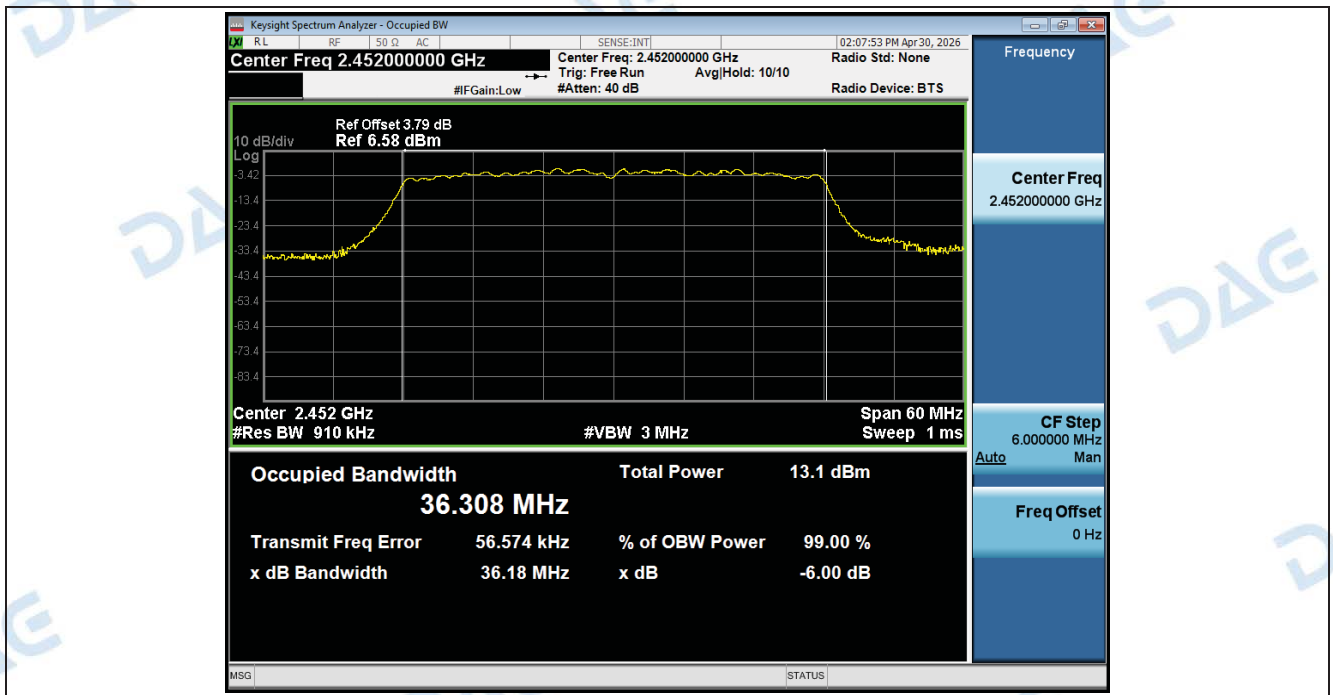
**-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2422**



-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2437



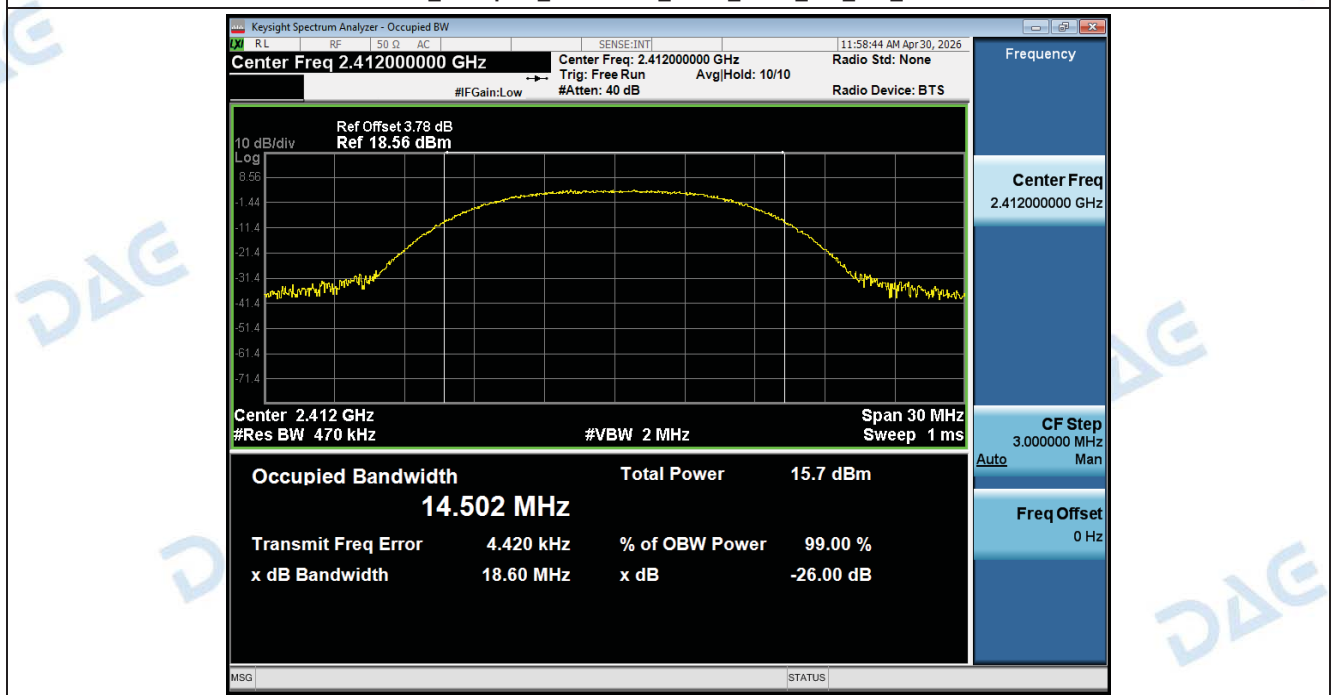
-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2452



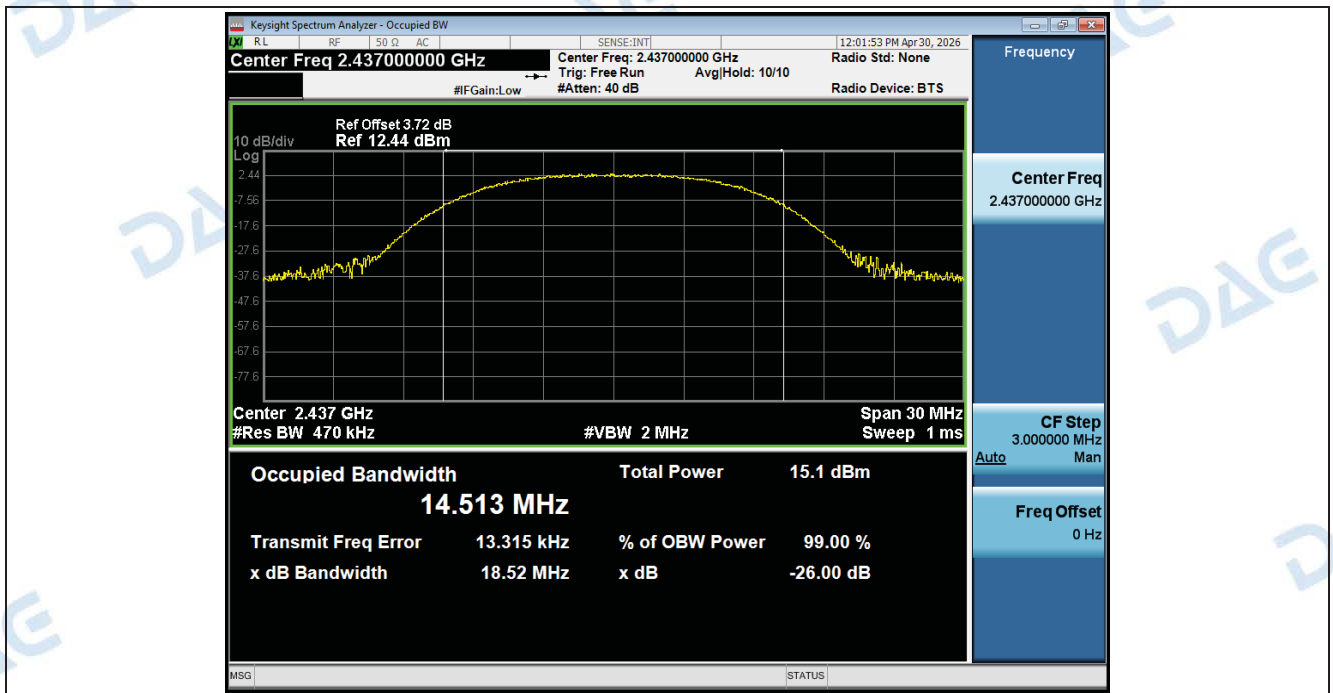
## 2. 99% Occupied Bandwidth

| Condition | Antenna | Modulation    | Frequency (MHz) | 99% BW (MHz) |
|-----------|---------|---------------|-----------------|--------------|
| NVNT      | ANT1    | 802.11b       | 2412.00         | 14.502       |
| NVNT      | ANT1    | 802.11b       | 2437.00         | 14.513       |
| NVNT      | ANT1    | 802.11b       | 2462.00         | 14.527       |
| NVNT      | ANT1    | 802.11g       | 2412.00         | 16.641       |
| NVNT      | ANT1    | 802.11g       | 2437.00         | 16.701       |
| NVNT      | ANT1    | 802.11g       | 2462.00         | 16.774       |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00         | 17.885       |
| NVNT      | ANT1    | 802.11n(HT20) | 2437.00         | 17.705       |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00         | 17.741       |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00         | 36.390       |
| NVNT      | ANT1    | 802.11n(HT40) | 2437.00         | 36.404       |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00         | 36.304       |

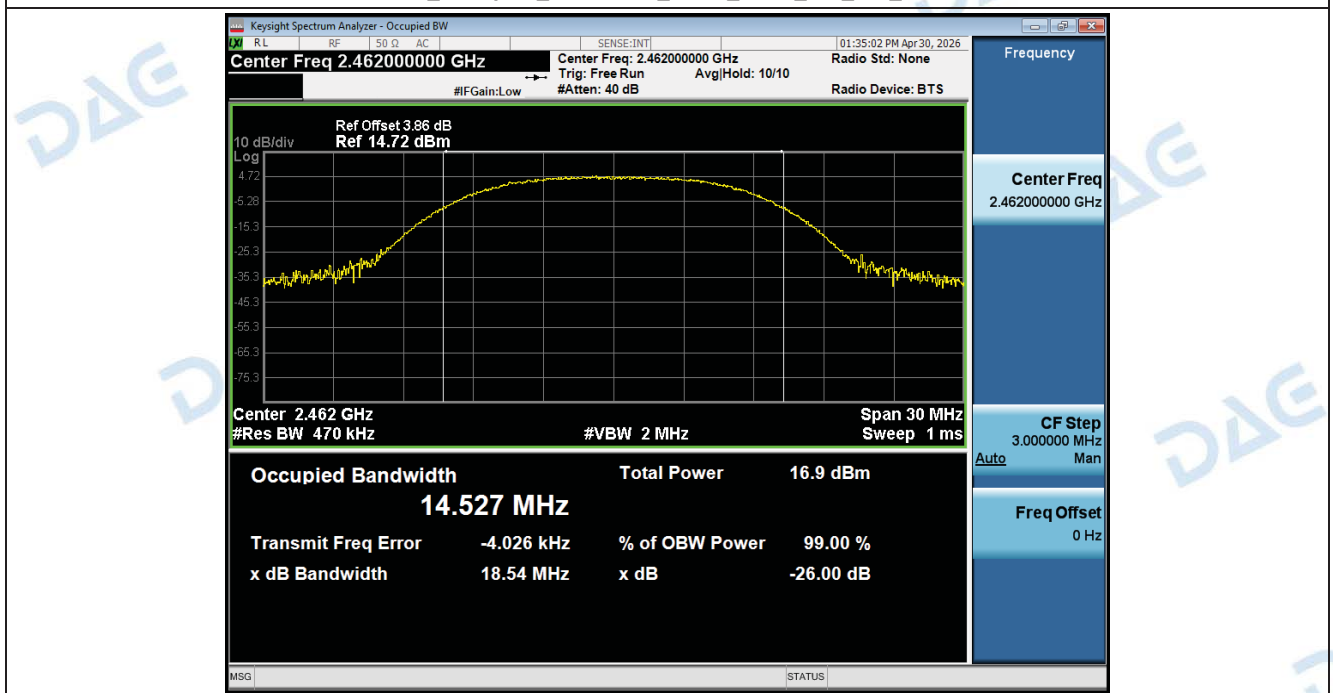
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11b\_2412



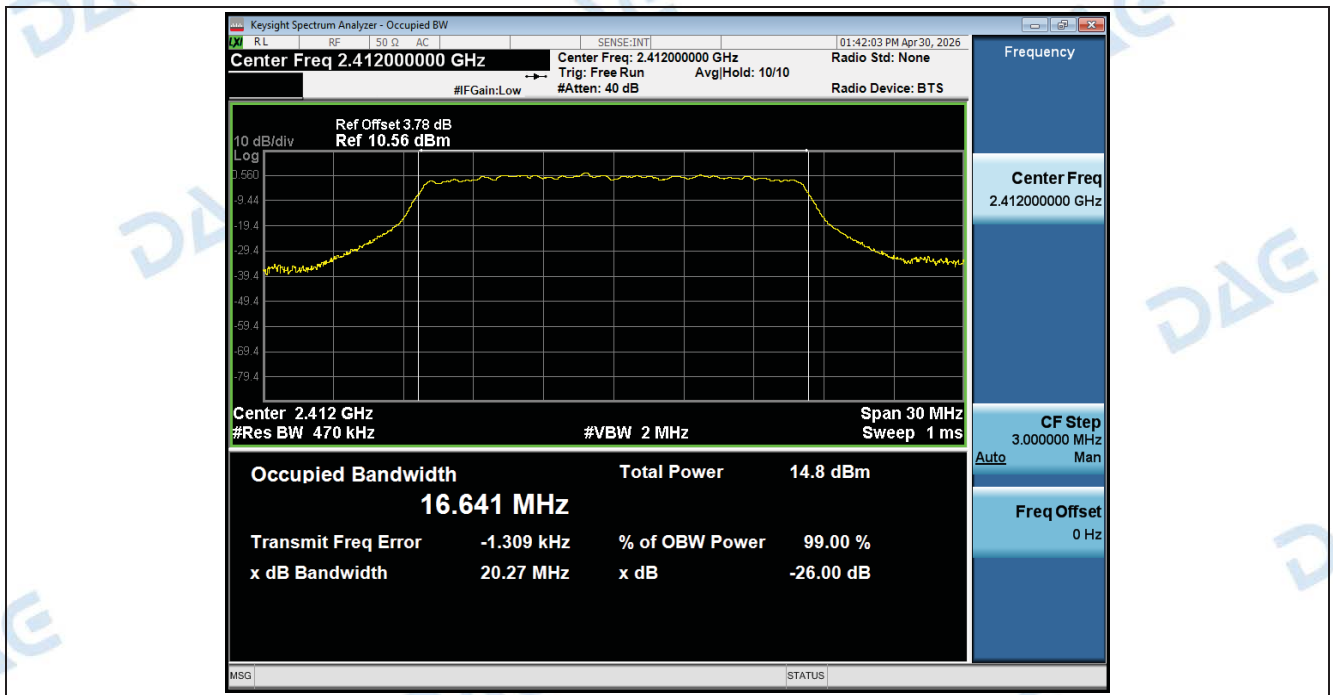
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11b\_2437



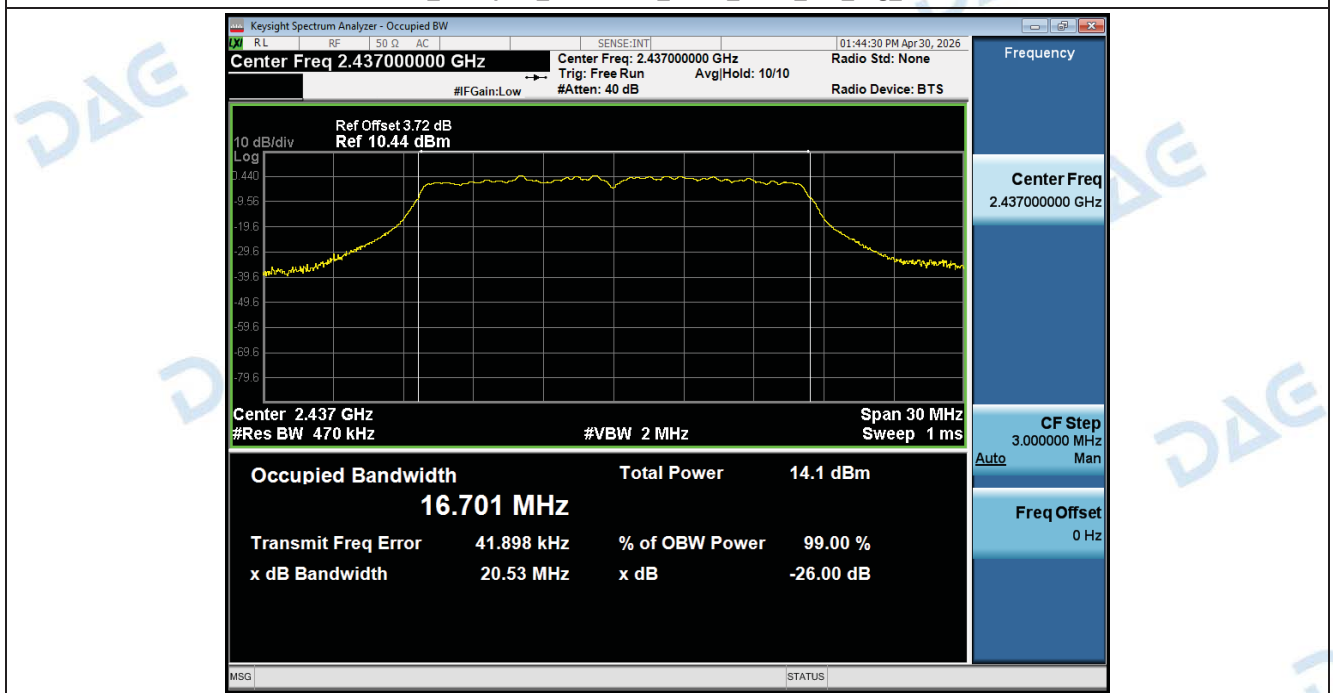
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11b\_2462



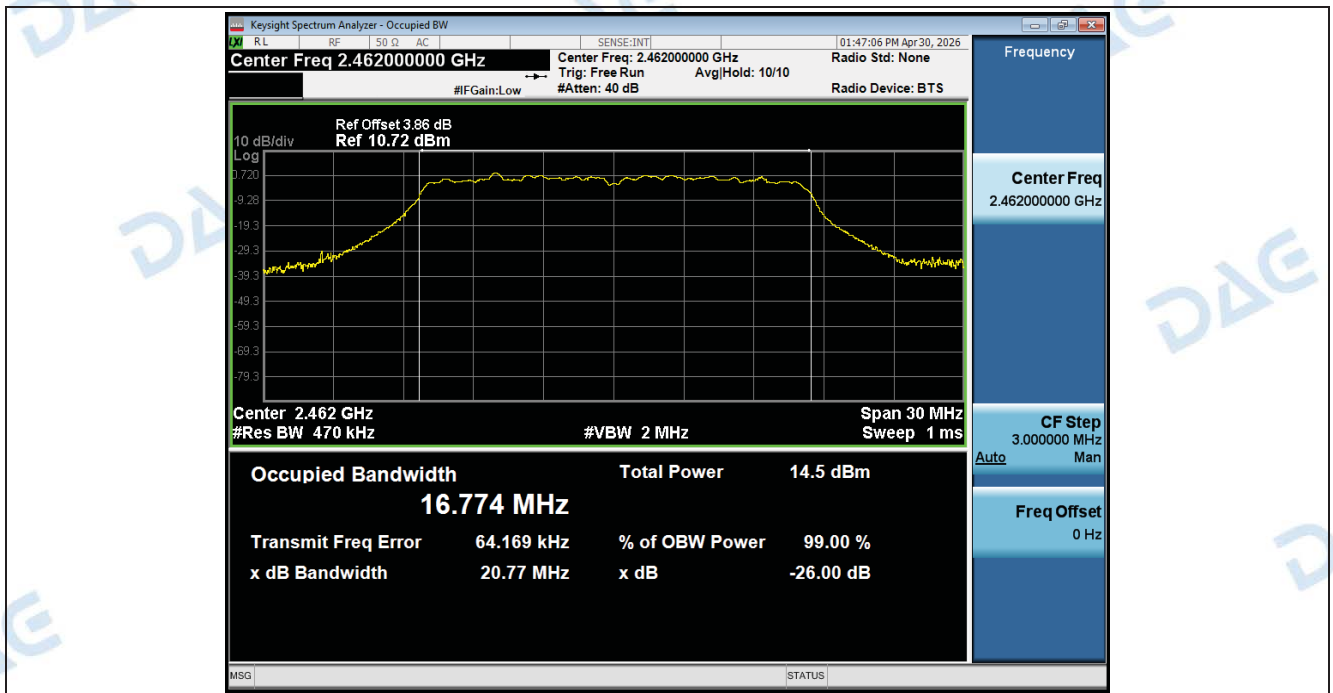
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11g\_2412



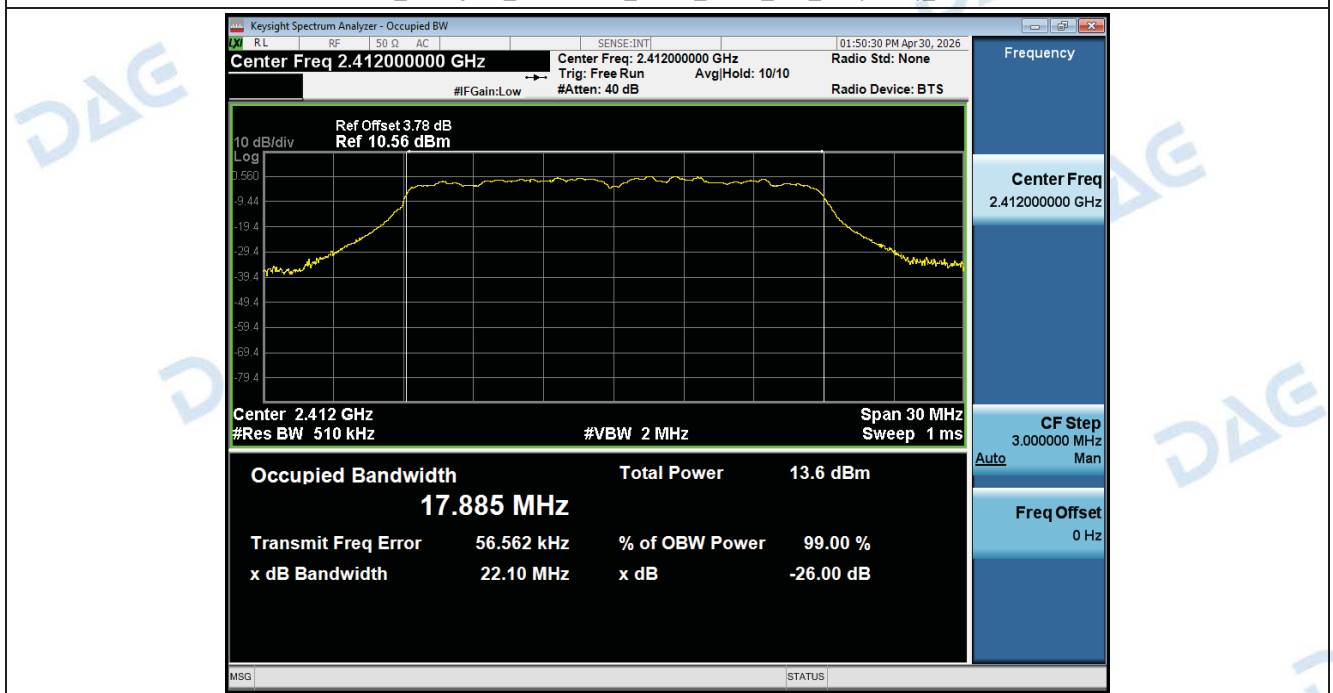
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11g\_2437



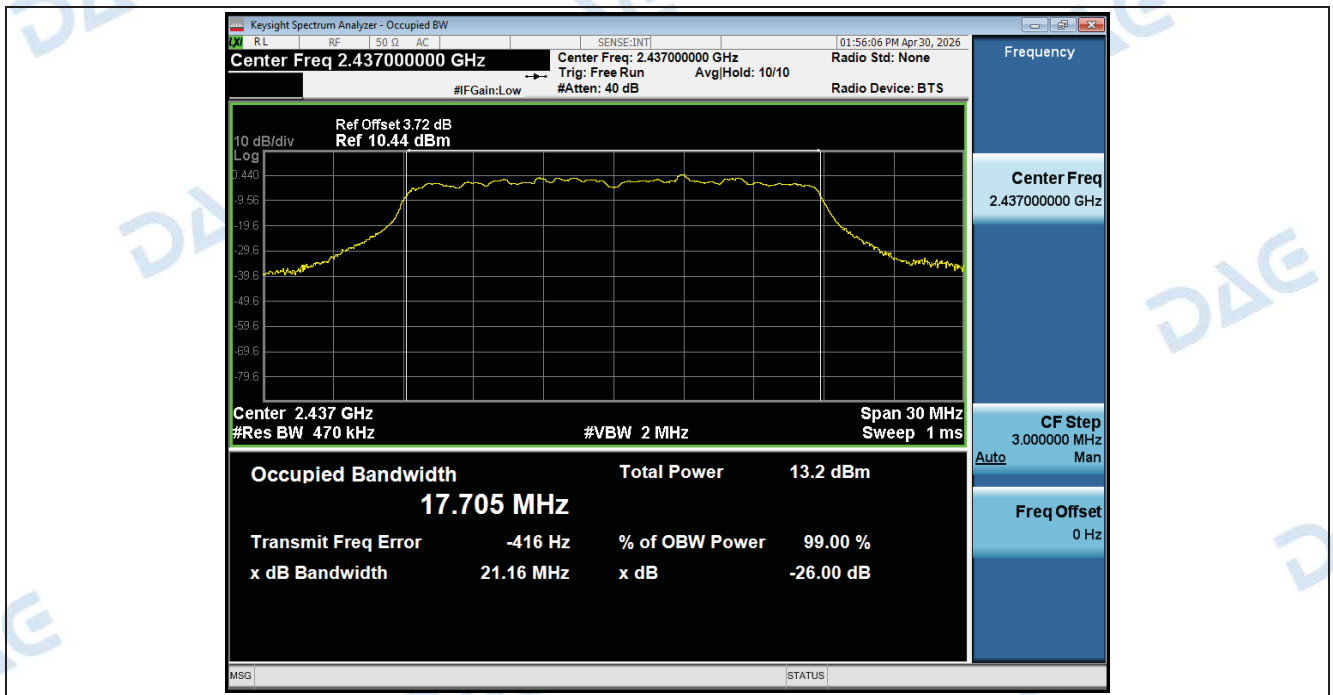
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11g\_2462



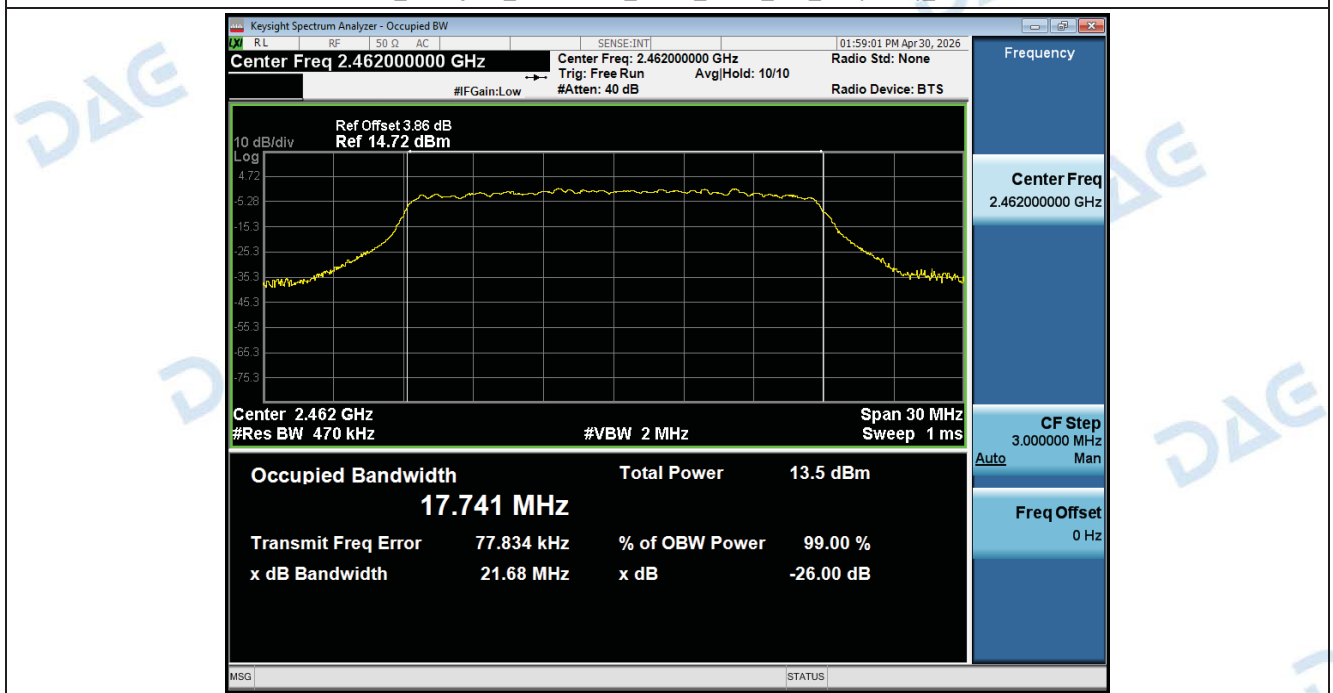
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2412



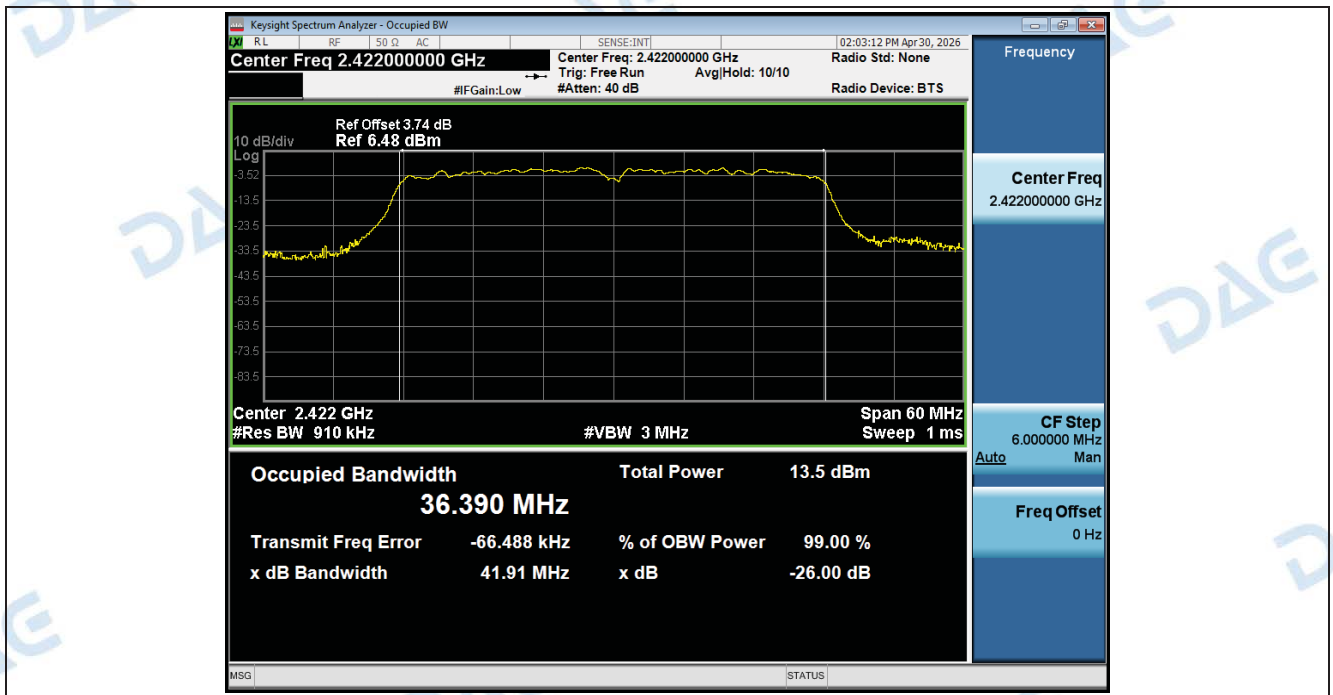
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2437



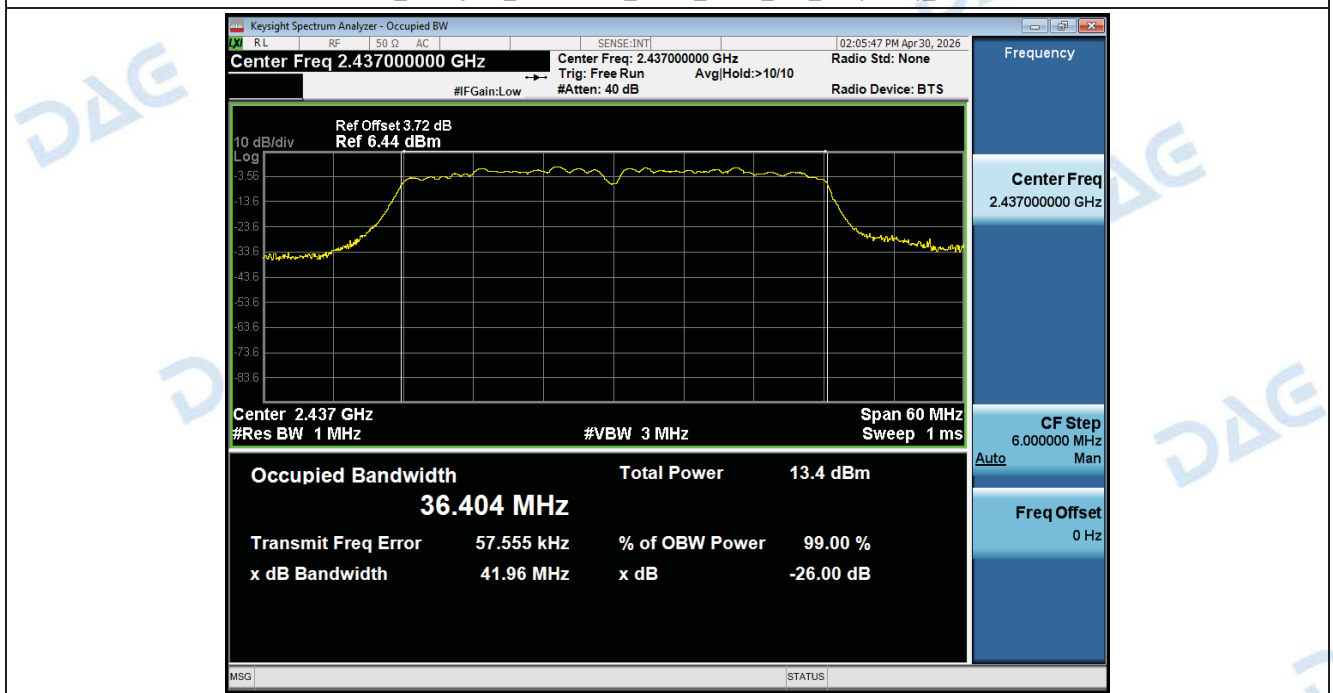
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2462



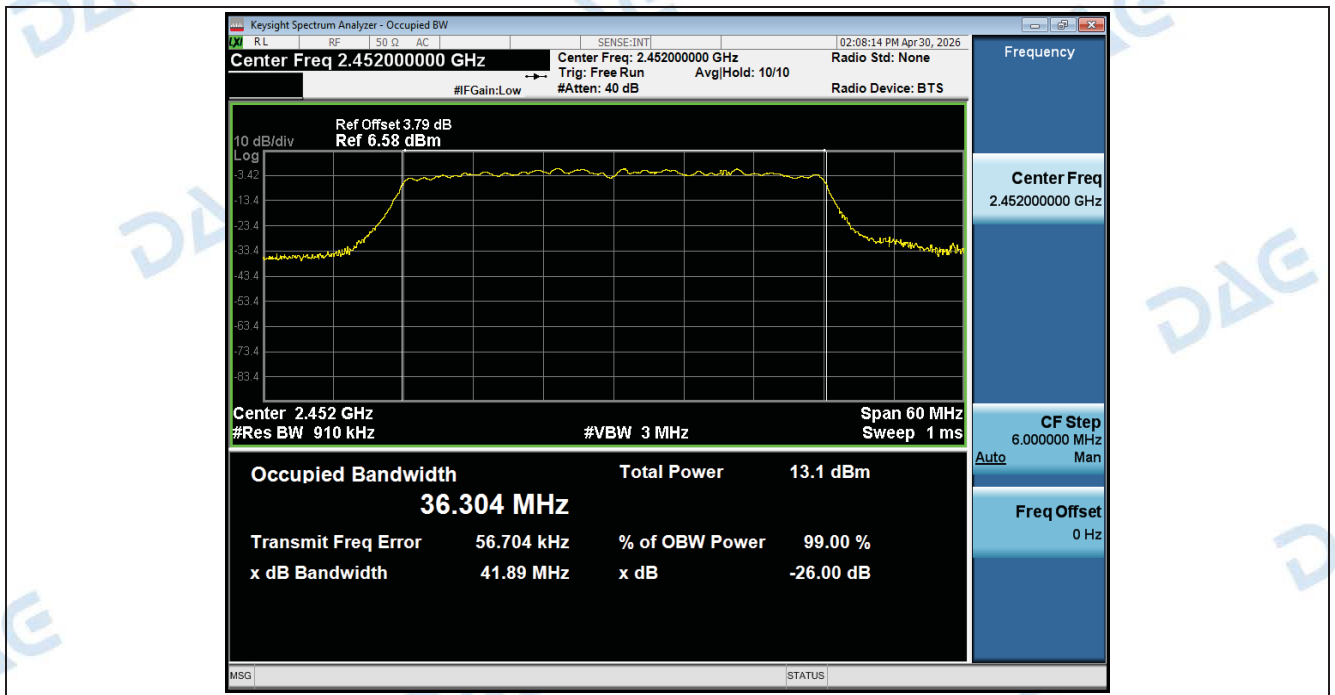
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2422



99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2437



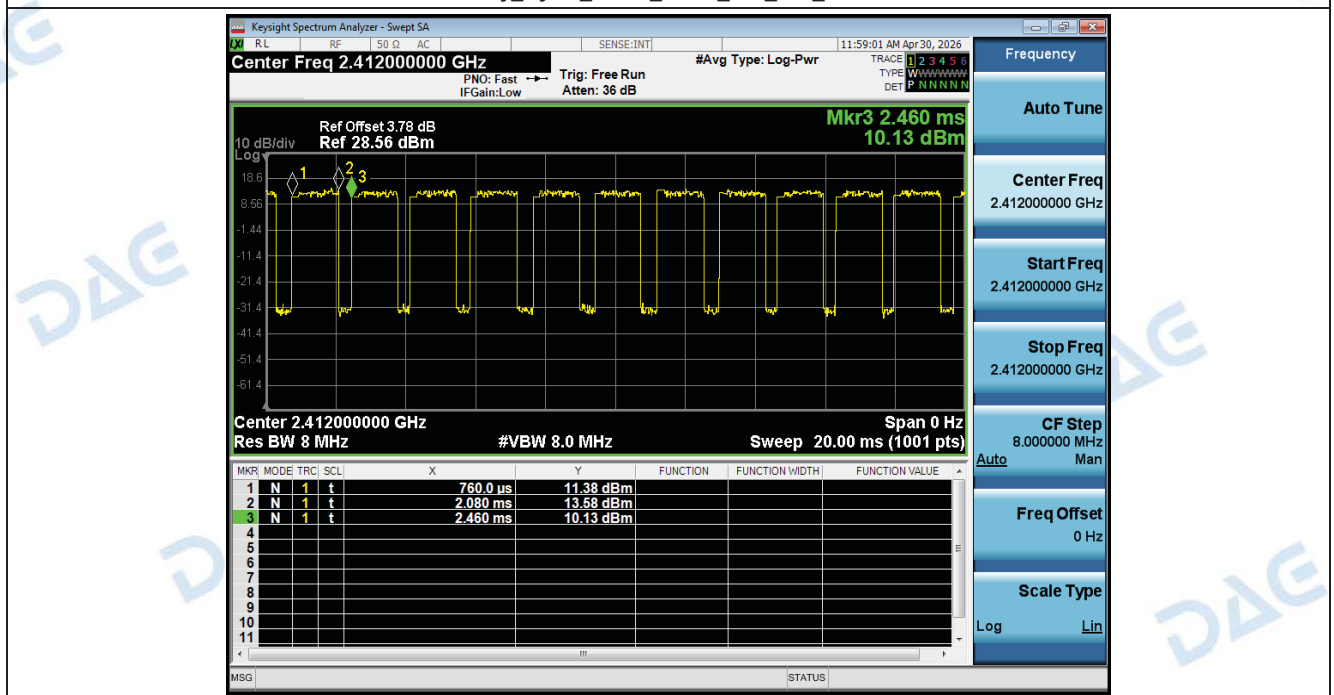
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2452



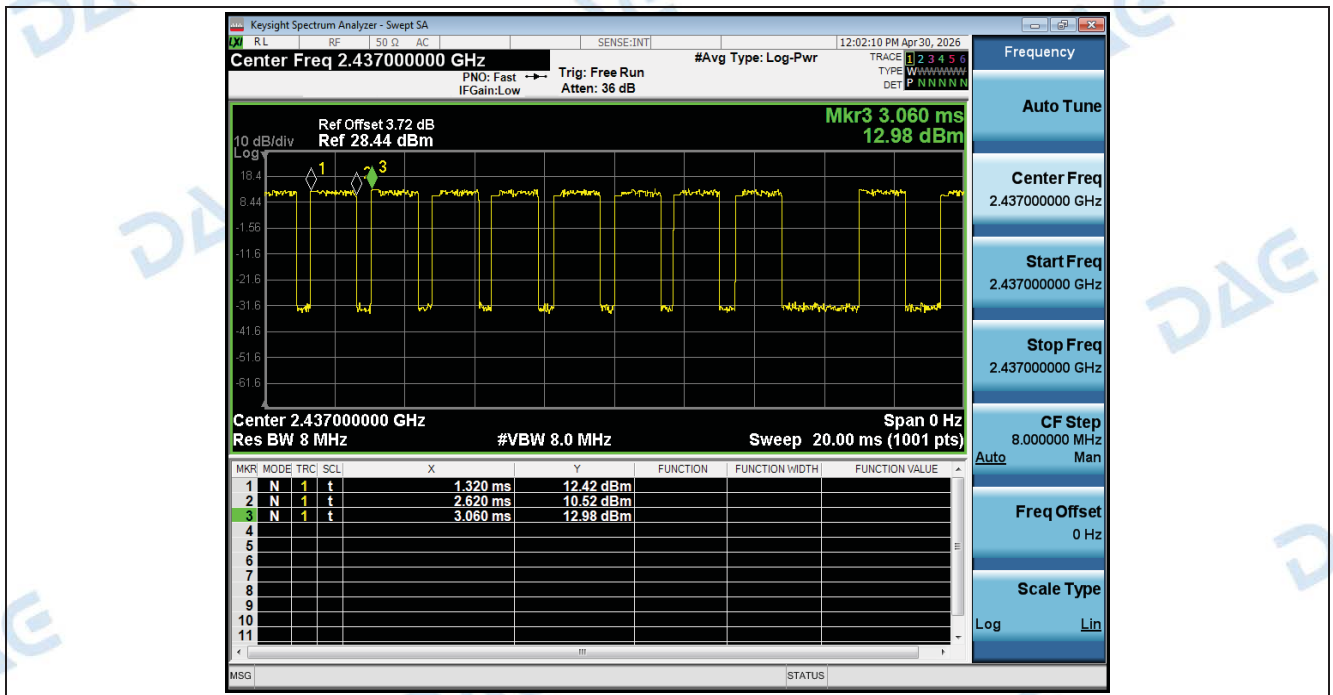
### 3. Duty Cycle

| Condition | Antenna | Modulation    | Frequency (MHz) | Duty cycle(%) | Duty factor(dB) |
|-----------|---------|---------------|-----------------|---------------|-----------------|
| NVNT      | ANT1    | 802.11b       | 2412.00         | 78.82         | 1.03            |
| NVNT      | ANT1    | 802.11b       | 2437.00         | 75.86         | 1.20            |
| NVNT      | ANT1    | 802.11b       | 2462.00         | 54.55         | 2.63            |
| NVNT      | ANT1    | 802.11g       | 2412.00         | 56.52         | 2.48            |
| NVNT      | ANT1    | 802.11g       | 2437.00         | 66.67         | 1.76            |
| NVNT      | ANT1    | 802.11g       | 2462.00         | 58.33         | 2.34            |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00         | 61.11         | 2.14            |
| NVNT      | ANT1    | 802.11n(HT20) | 2437.00         | 66.67         | 1.76            |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00         | 57.14         | 2.43            |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00         | 46.67         | 3.31            |
| NVNT      | ANT1    | 802.11n(HT40) | 2437.00         | 58.33         | 2.34            |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00         | 41.18         | 3.85            |

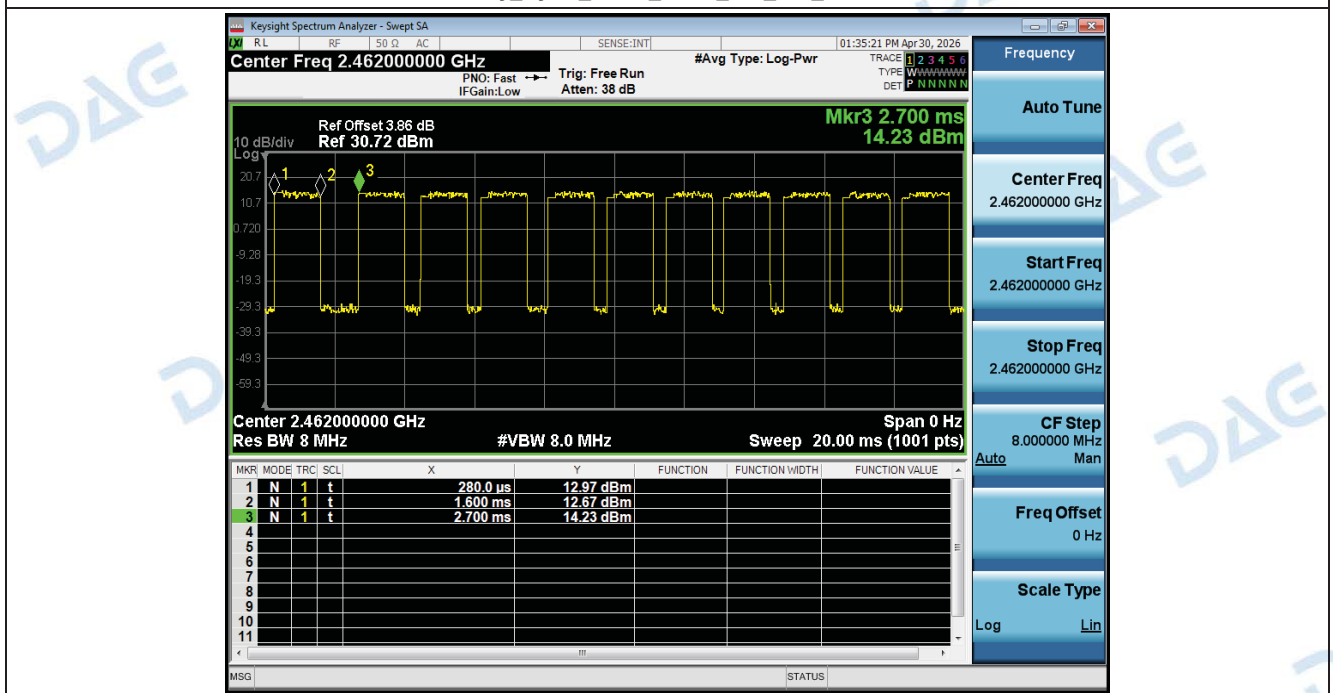
Duty\_Cycle\_NVNT\_ANT1\_802\_11b\_2412



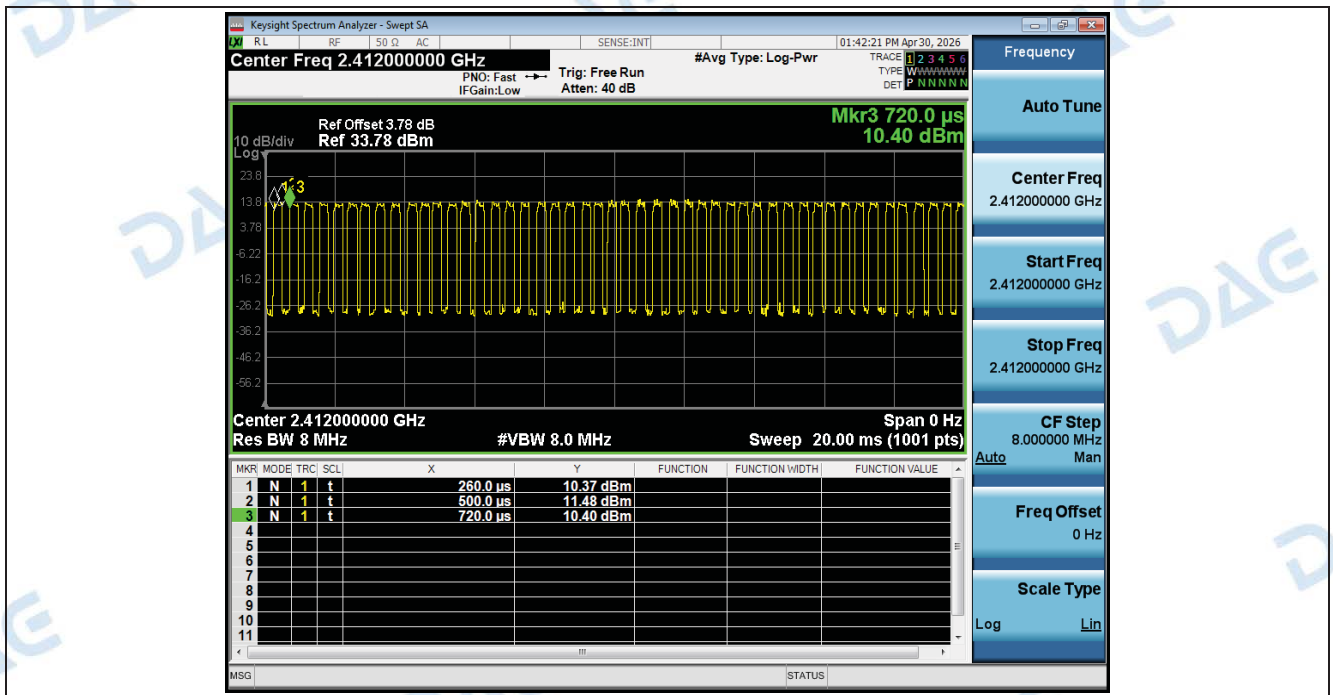
Duty\_Cycle\_NVNT\_ANT1\_802\_11b\_2437



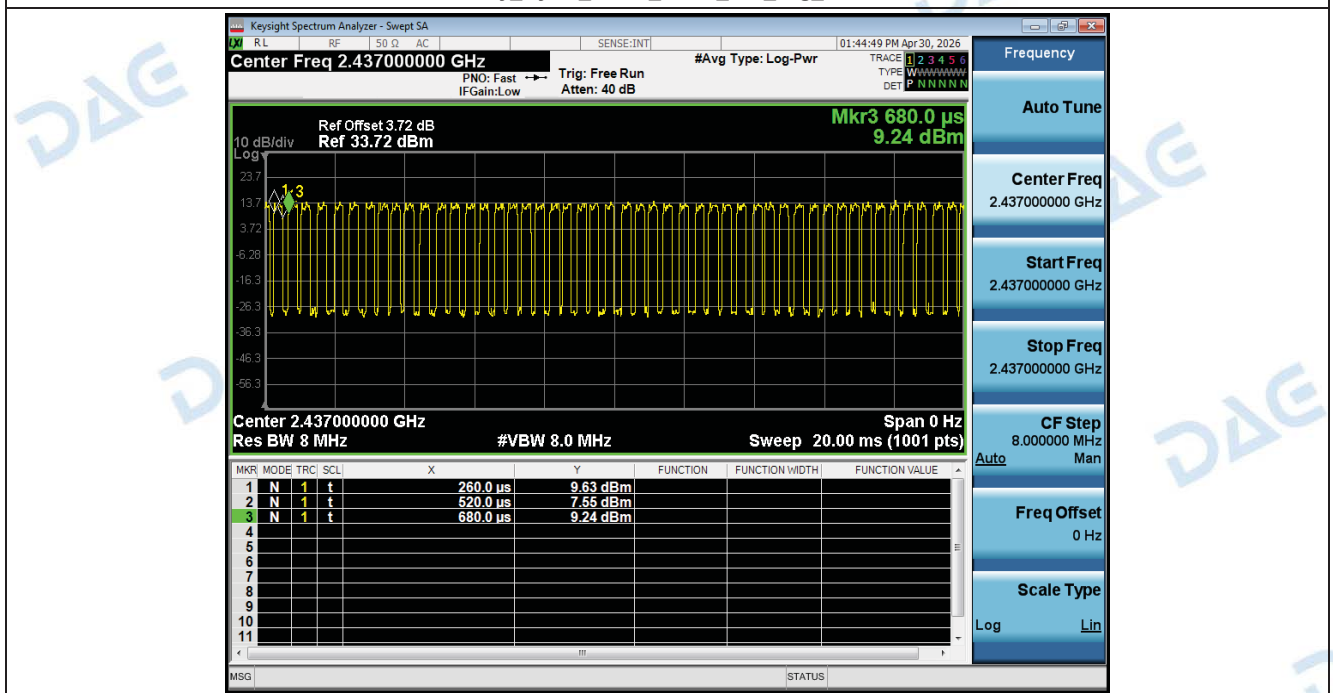
Duty\_Cycle\_NVNT\_ANT1\_802\_11b\_2462



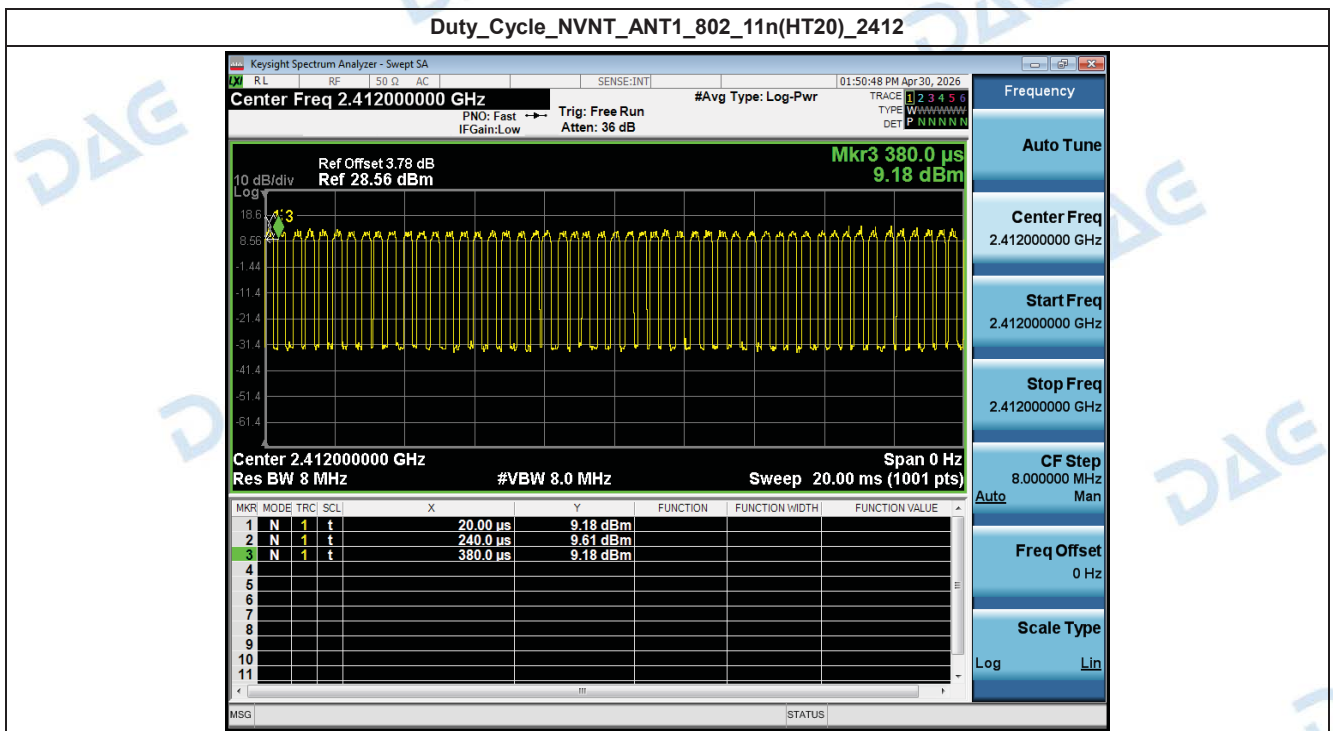
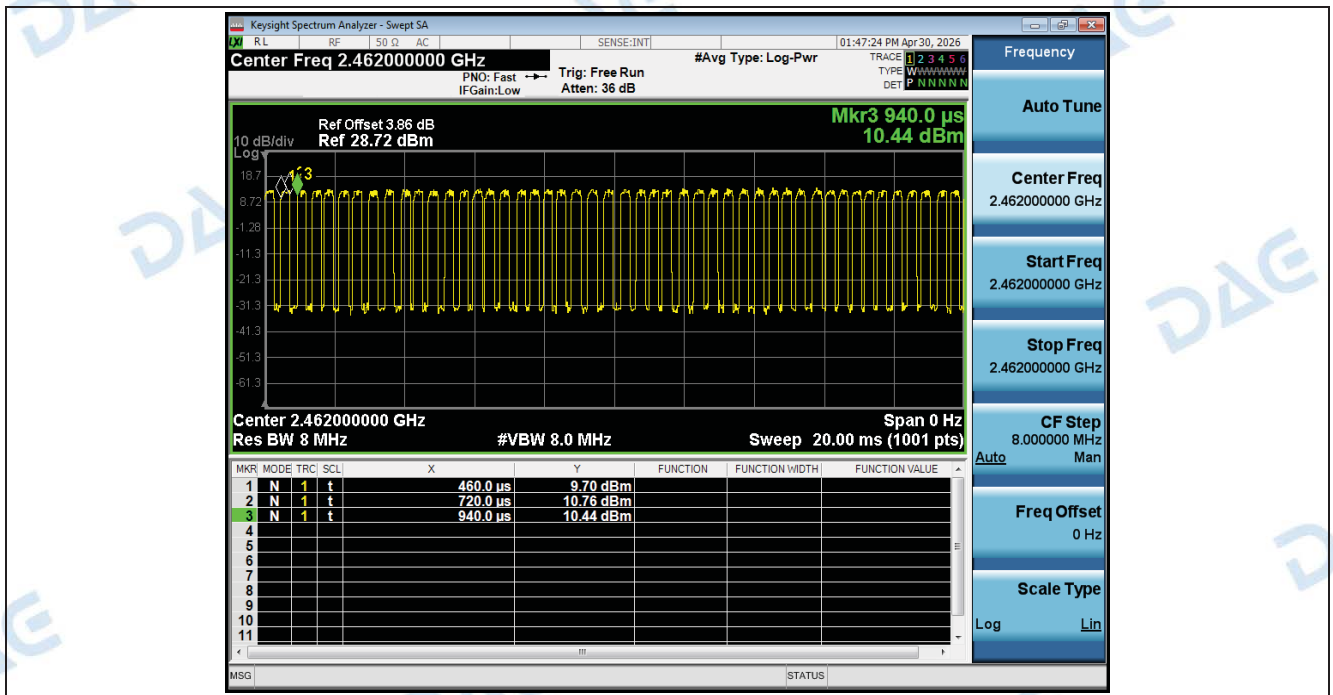
Duty\_Cycle\_NVNT\_ANT1\_802\_11g\_2412



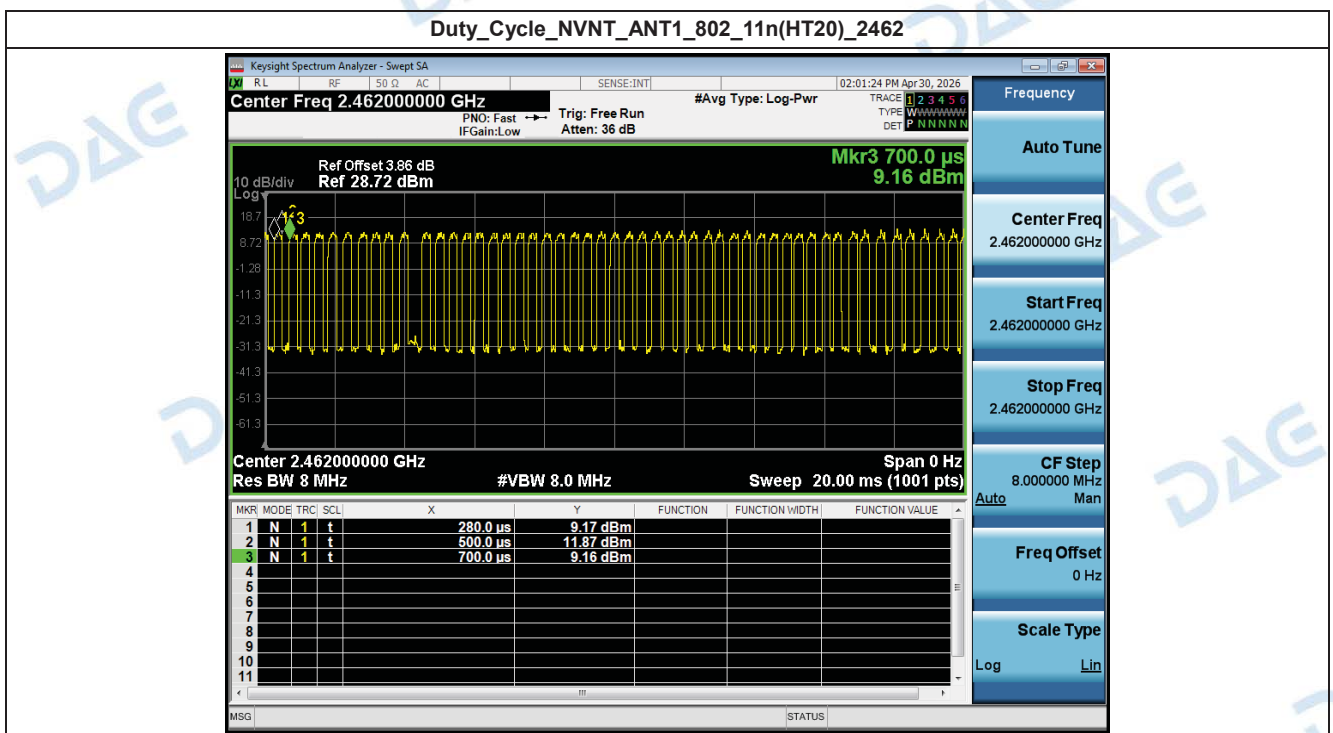
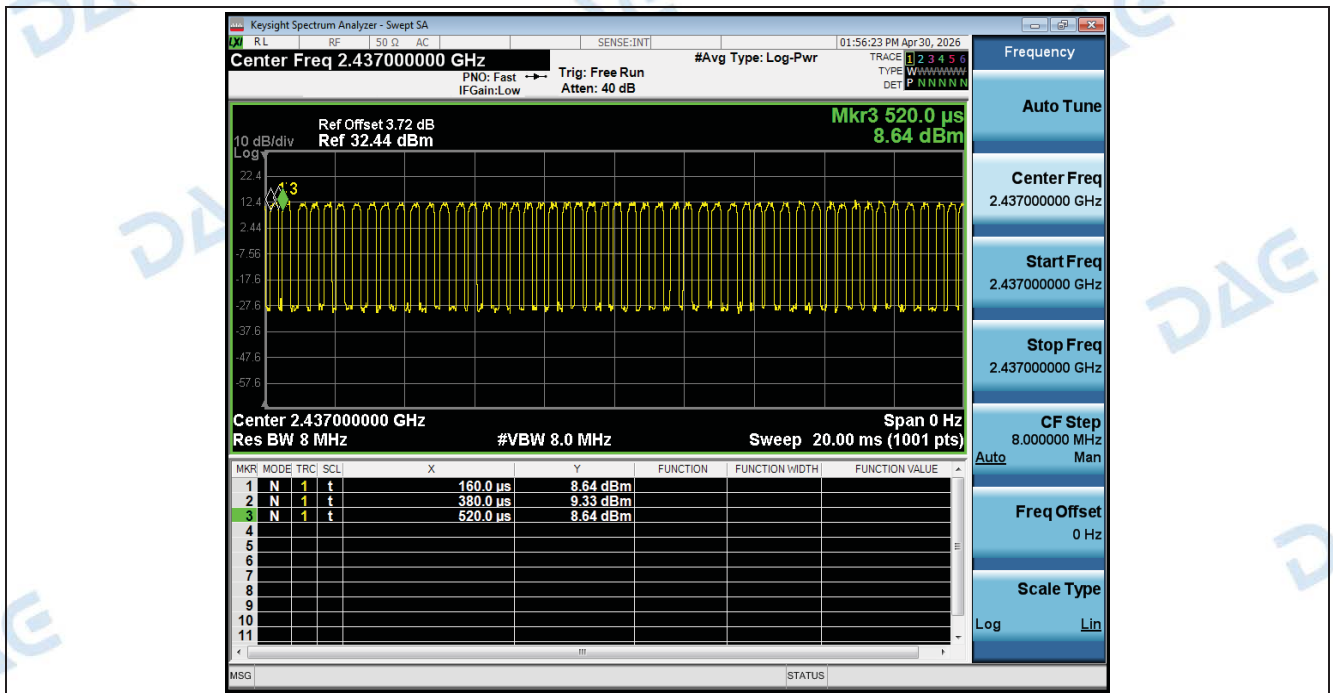
Duty\_Cycle\_NVNT\_ANT1\_802\_11g\_2437



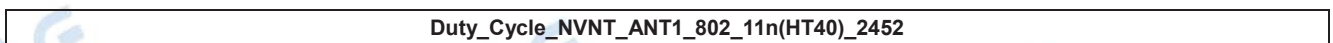
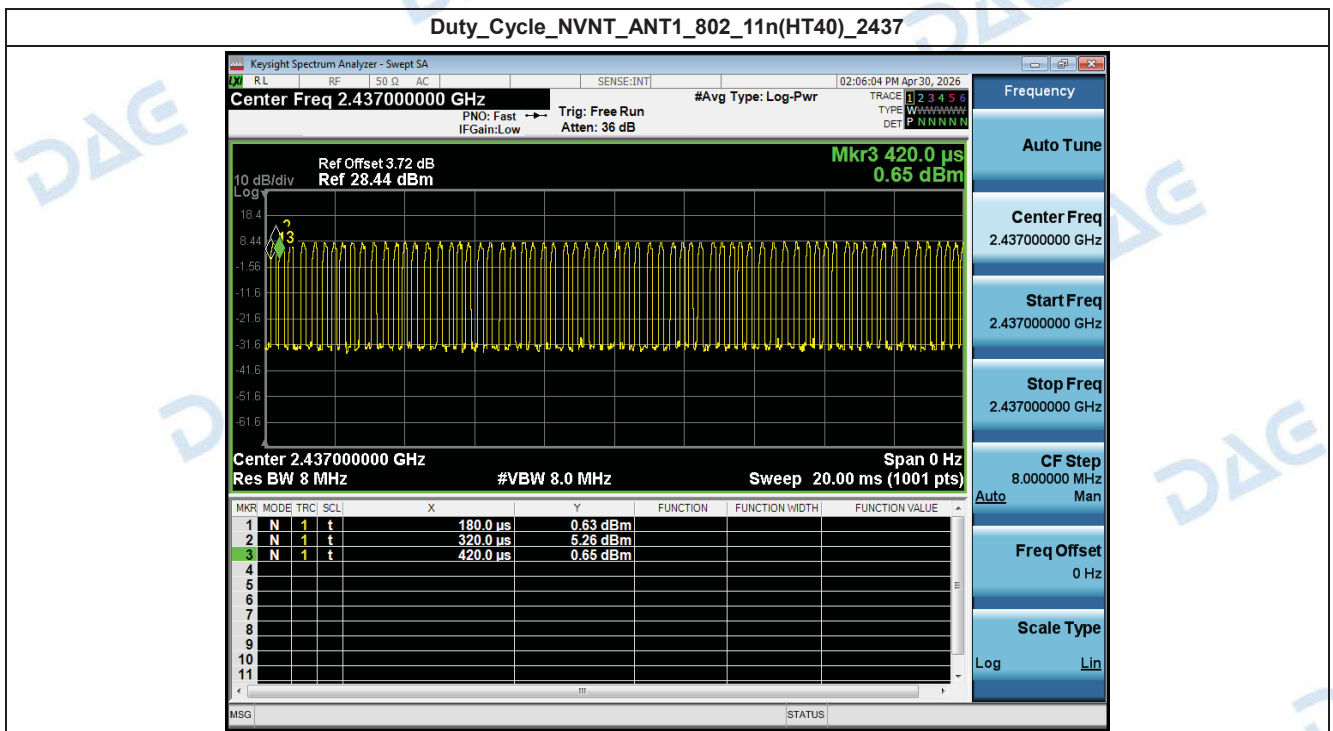
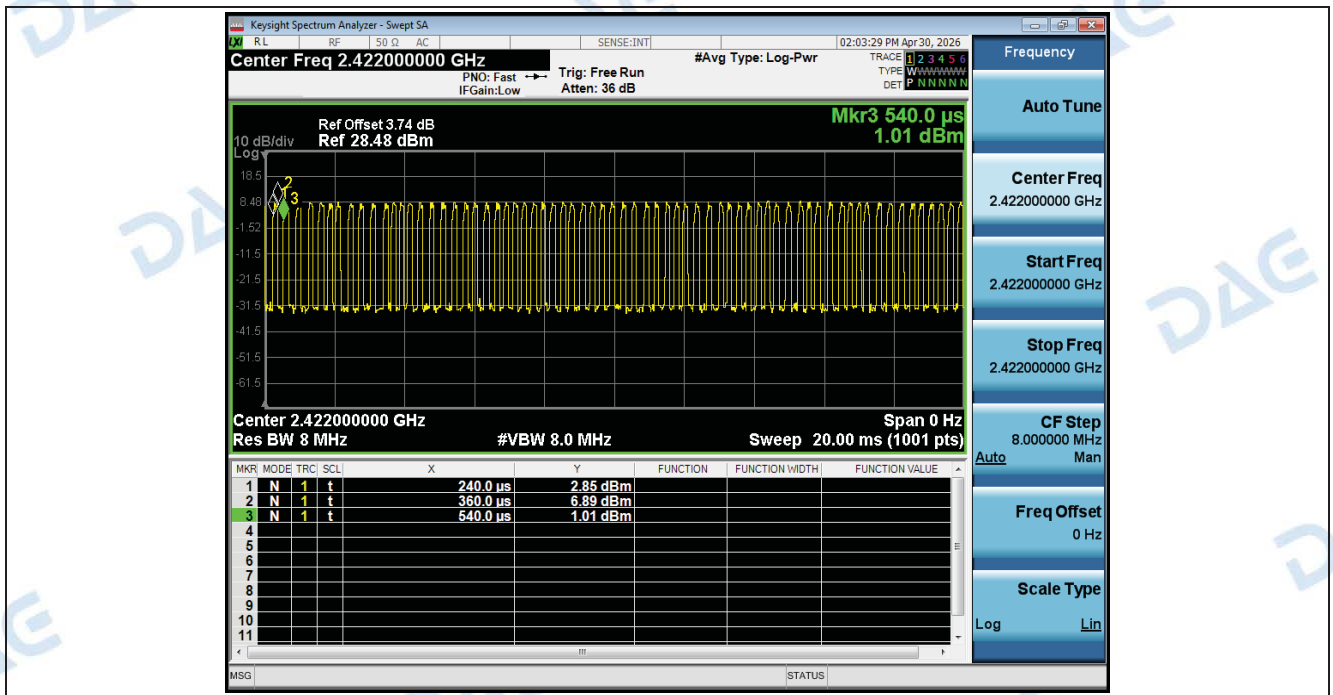
Duty\_Cycle\_NVNT\_ANT1\_802\_11g\_2462

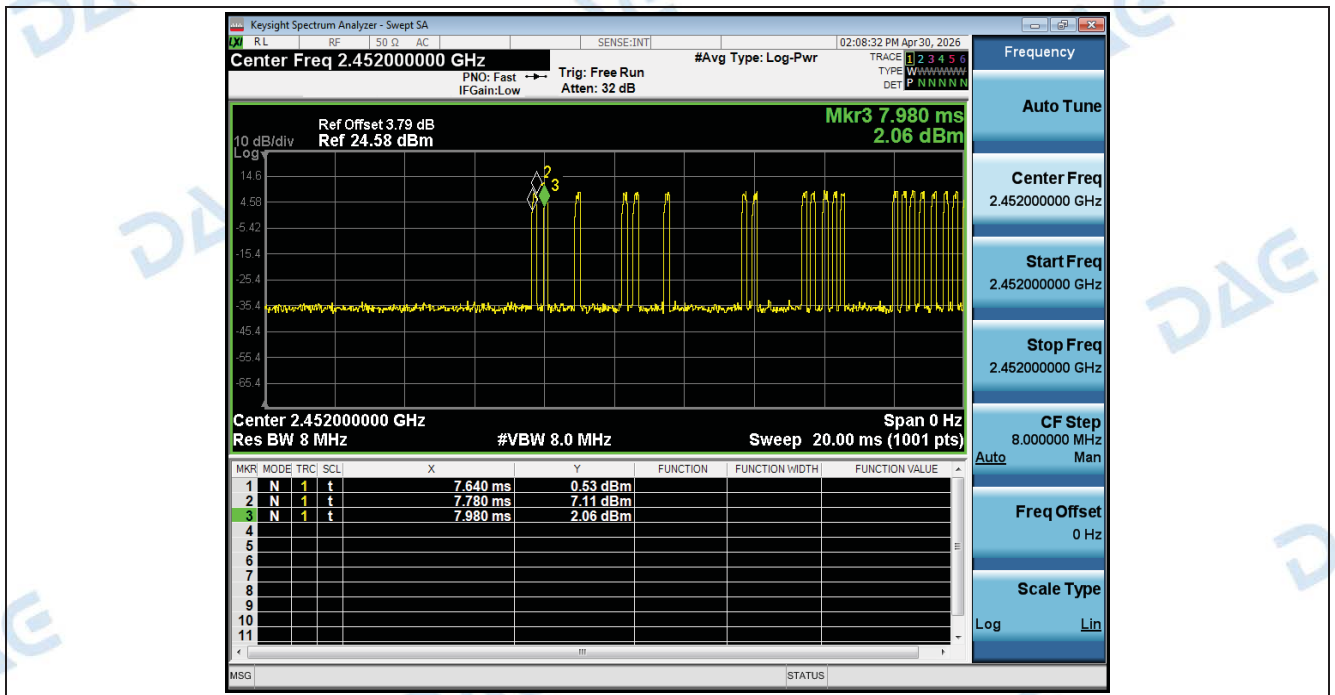


Duty\_Cycle\_NVNT\_ANT1\_802\_11n(HT20)\_2437



Duty\_Cycle\_NVNT\_ANT1\_802\_11n(HT40)\_2422





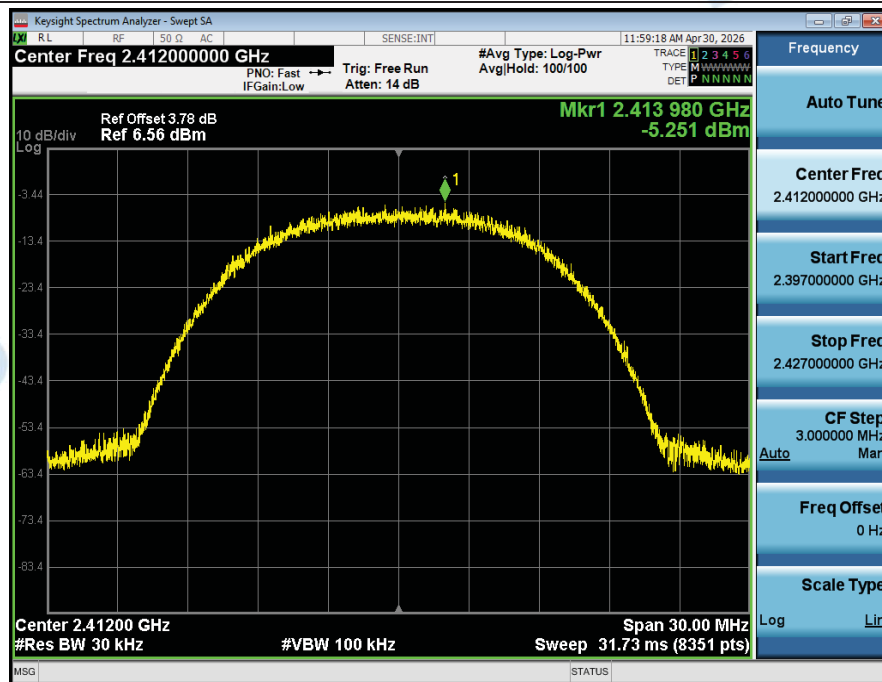
**4. MAX. Output Power**

| Condition | Antenna | Modulation    | Frequency (MHz) | Detector | Total Power(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|-----------------|----------|------------------|------------|--------|
| NVNT      | ANT1    | 802.11b       | 2412.00         | Peak     | 15.43            | 30         | Pass   |
| NVNT      | ANT1    | 802.11b       | 2437.00         | Peak     | 15.99            | 30         | Pass   |
| NVNT      | ANT1    | 802.11b       | 2462.00         | Peak     | 15.66            | 30         | Pass   |
| NVNT      | ANT1    | 802.11g       | 2412.00         | Peak     | 14.86            | 30         | Pass   |
| NVNT      | ANT1    | 802.11g       | 2437.00         | Peak     | 14.00            | 30         | Pass   |
| NVNT      | ANT1    | 802.11g       | 2462.00         | Peak     | 14.36            | 30         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00         | Peak     | 13.47            | 30         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2437.00         | Peak     | 13.16            | 30         | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00         | Peak     | 13.21            | 30         | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00         | Peak     | 12.84            | 30         | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2437.00         | Peak     | 12.29            | 30         | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00         | Peak     | 12.18            | 30         | Pass   |

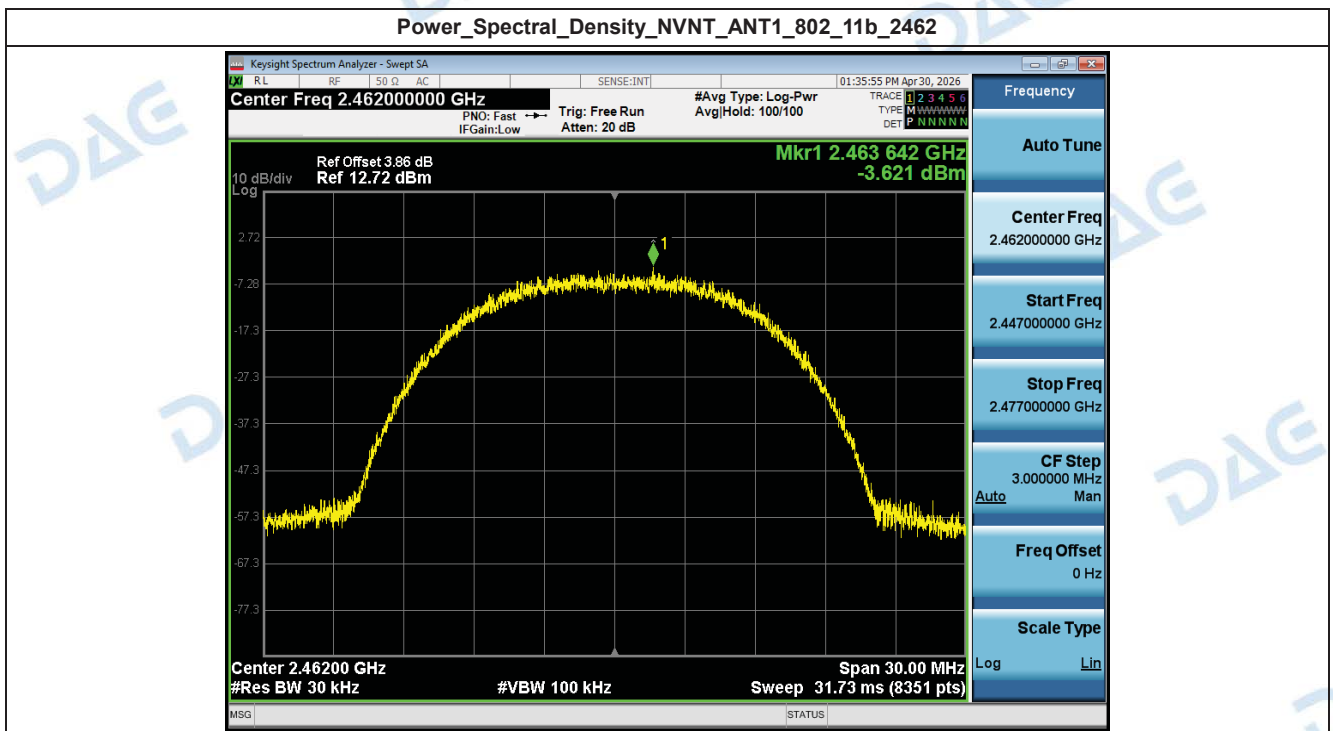
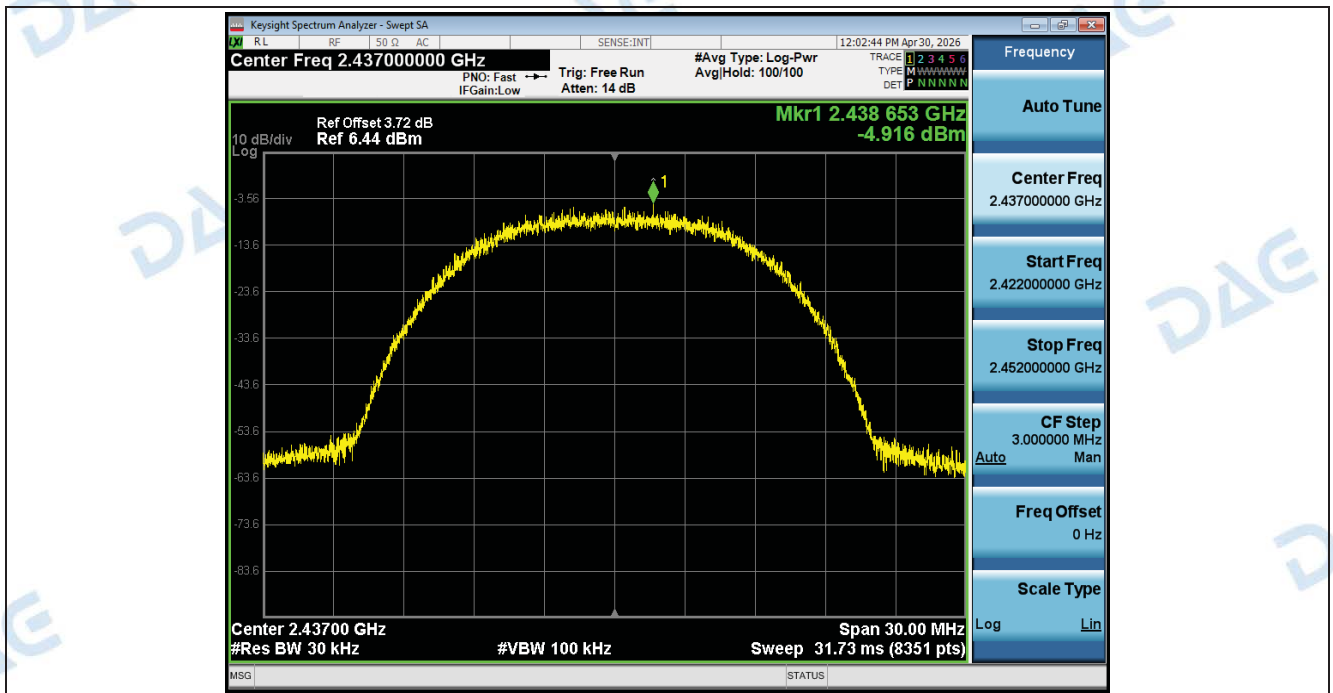
## 5. Power Spectral Density

| Condition | Antenna | Modulation    | Frequency (MHz) | SA_PSD(dBm/30kHz) | Duty factor(dB) | RB factor(dB) | PSD(dBm/3kHz) | limit(dBm/3kHz) | Result |
|-----------|---------|---------------|-----------------|-------------------|-----------------|---------------|---------------|-----------------|--------|
| NVNT      | ANT1    | 802.11b       | 2412.00         | -5.25             | N/A             | -10.00        | -15.25        | 8               | Pass   |
| NVNT      | ANT1    | 802.11b       | 2437.00         | -4.92             | N/A             | -10.00        | -14.92        | 8               | Pass   |
| NVNT      | ANT1    | 802.11b       | 2462.00         | -3.62             | N/A             | -10.00        | -13.62        | 8               | Pass   |
| NVNT      | ANT1    | 802.11g       | 2412.00         | -7.85             | N/A             | -10.00        | -17.85        | 8               | Pass   |
| NVNT      | ANT1    | 802.11g       | 2437.00         | -8.61             | N/A             | -10.00        | -18.61        | 8               | Pass   |
| NVNT      | ANT1    | 802.11g       | 2462.00         | -8.00             | N/A             | -10.00        | -18.00        | 8               | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00         | -8.48             | N/A             | -10.00        | -18.48        | 8               | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2437.00         | -9.23             | N/A             | -10.00        | -19.23        | 8               | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00         | -9.03             | N/A             | -10.00        | -19.03        | 8               | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00         | -12.53            | N/A             | -10.00        | -22.53        | 8               | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2437.00         | -12.68            | N/A             | -10.00        | -22.68        | 8               | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00         | -12.74            | N/A             | -10.00        | -22.74        | 8               | Pass   |

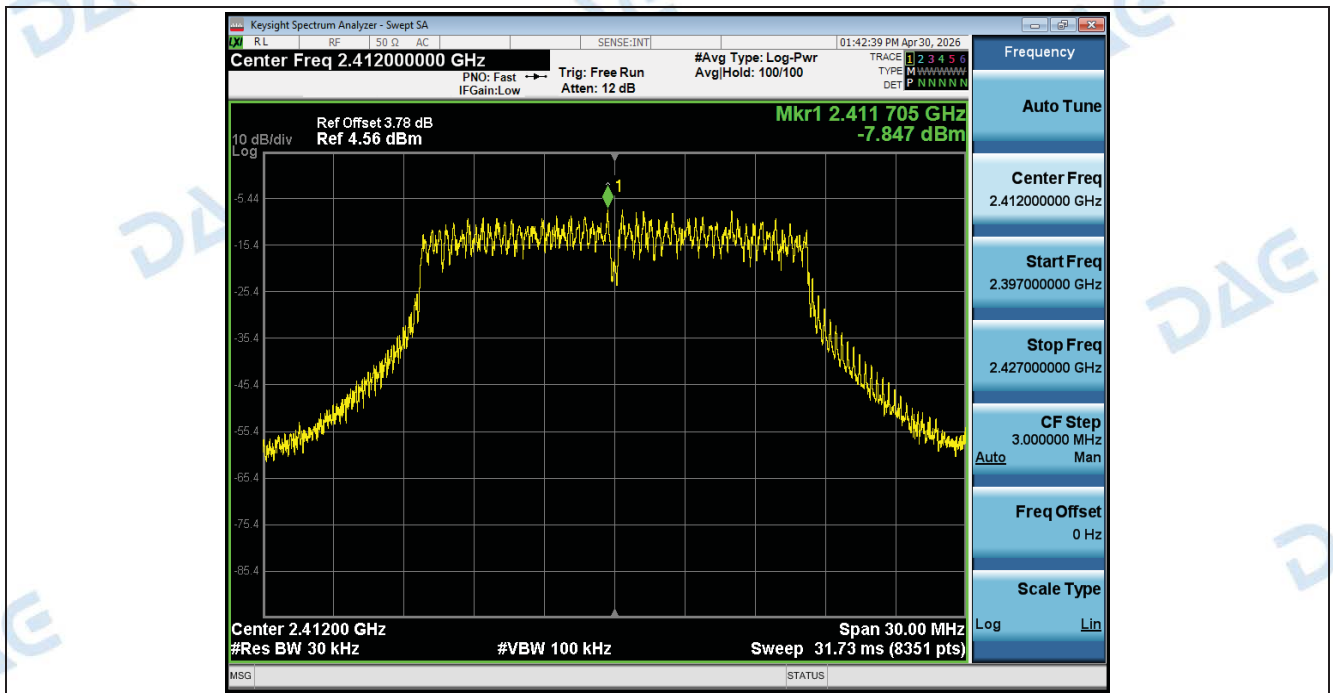
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11b\_2412



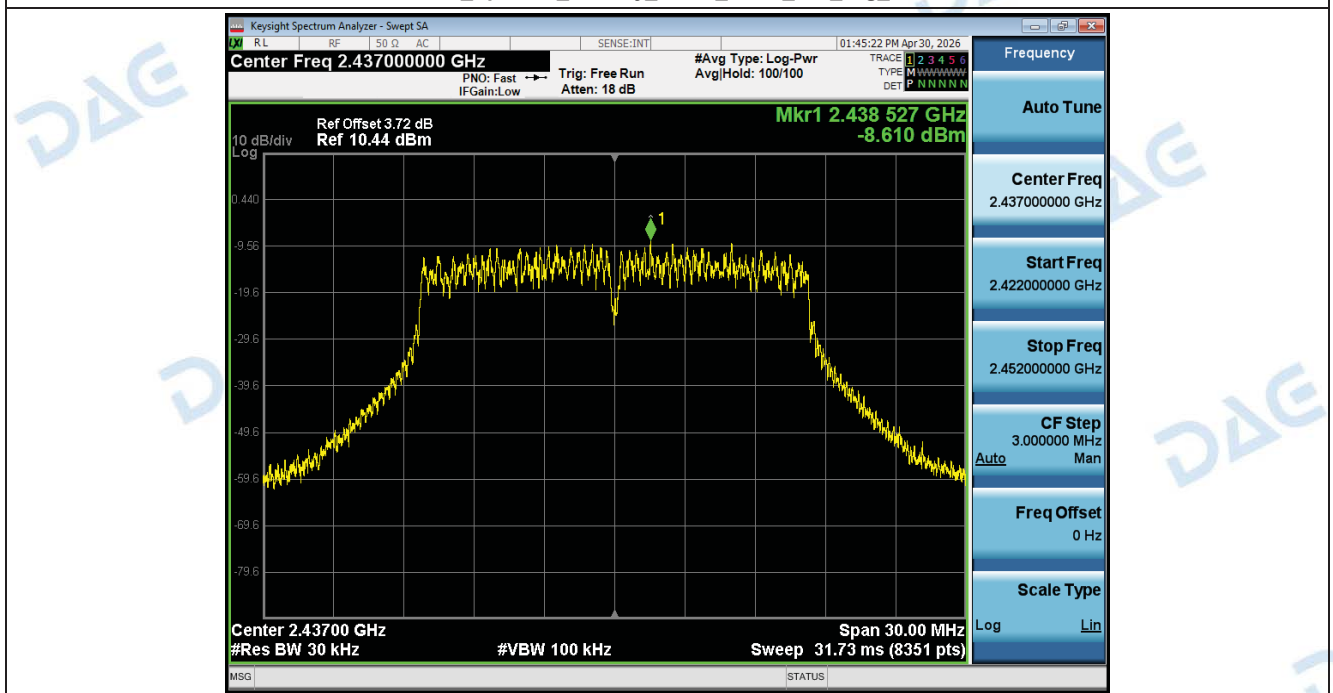
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11b\_2437



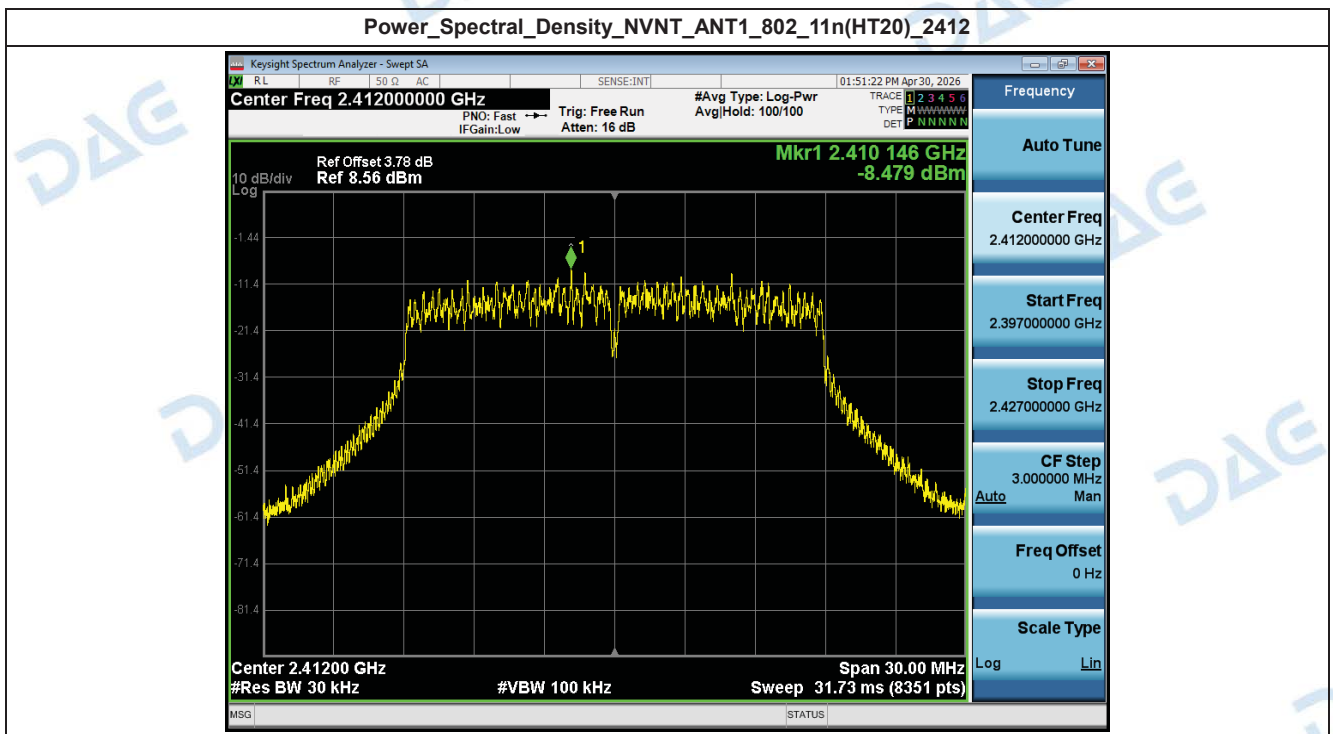
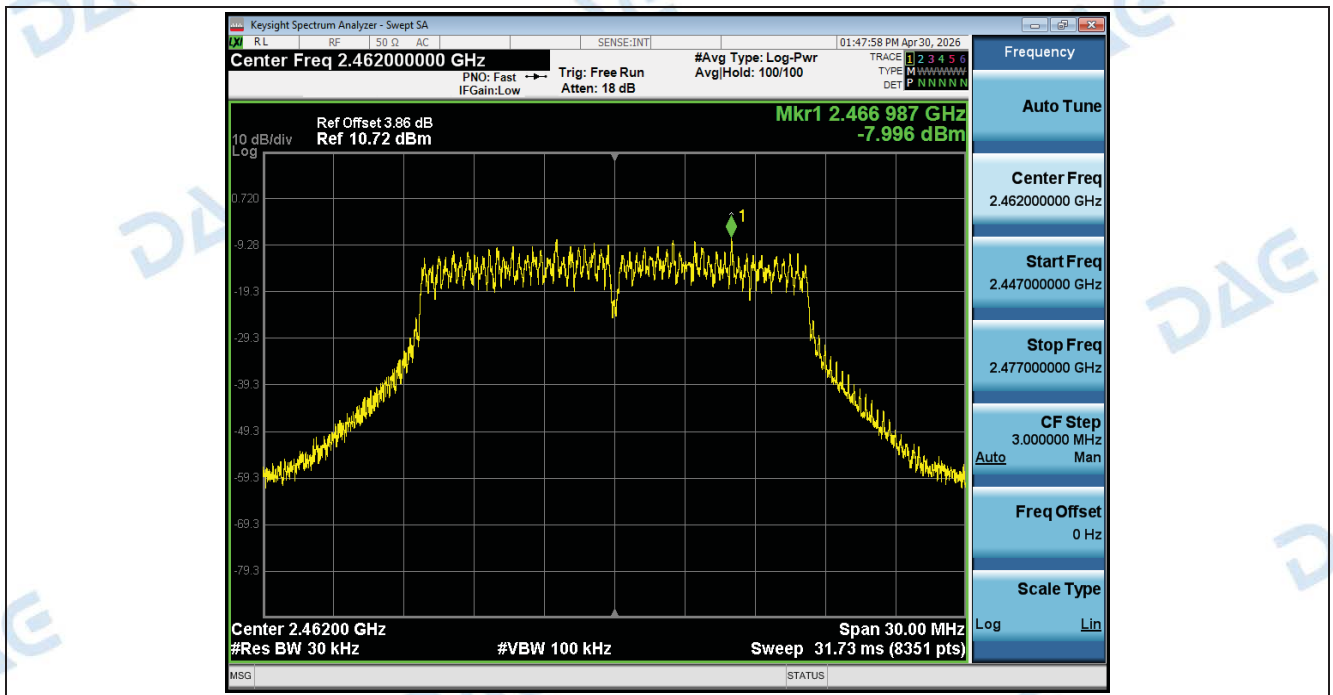
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11g\_2412



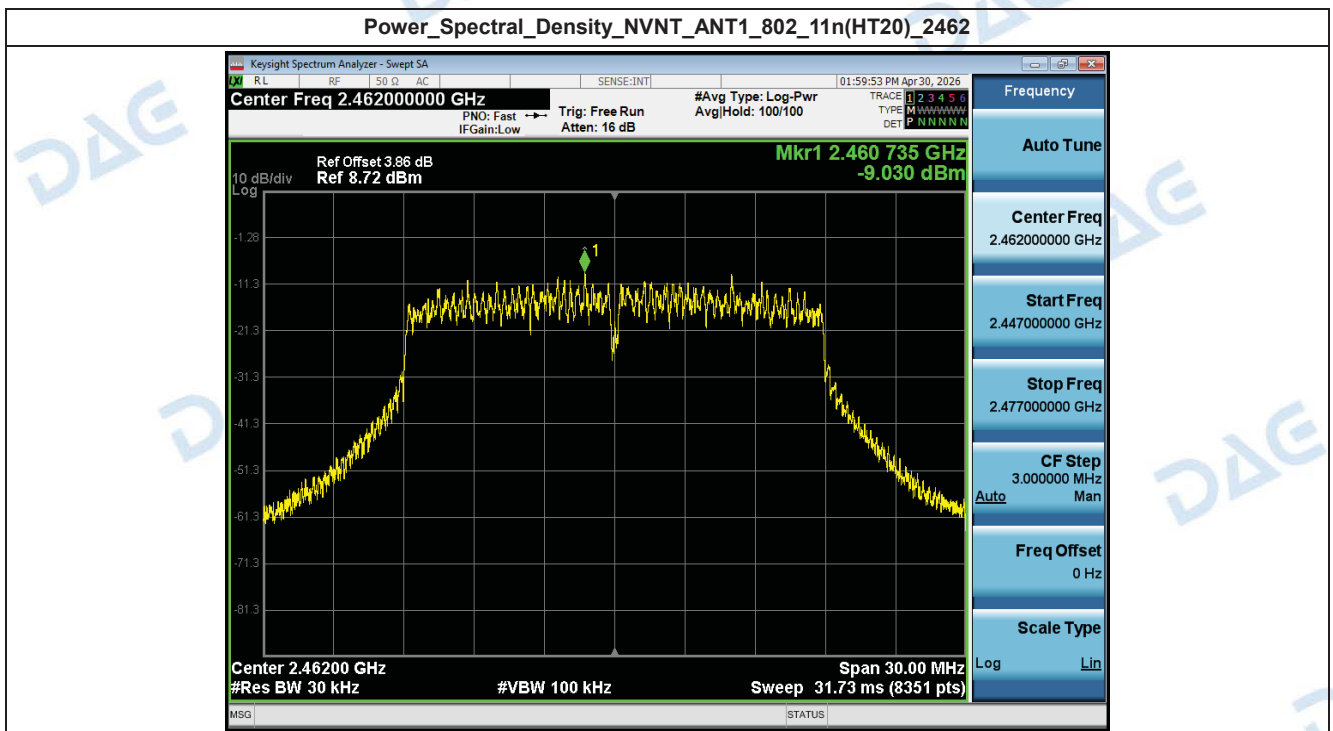
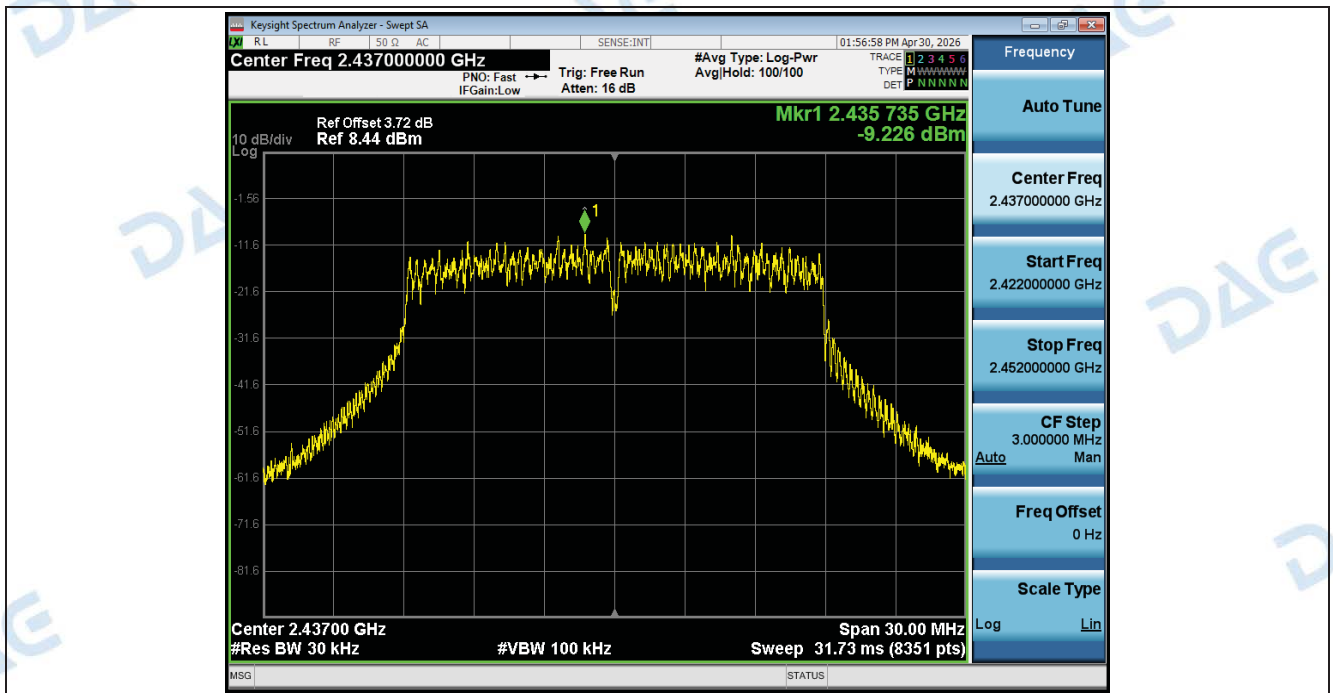
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11g\_2437



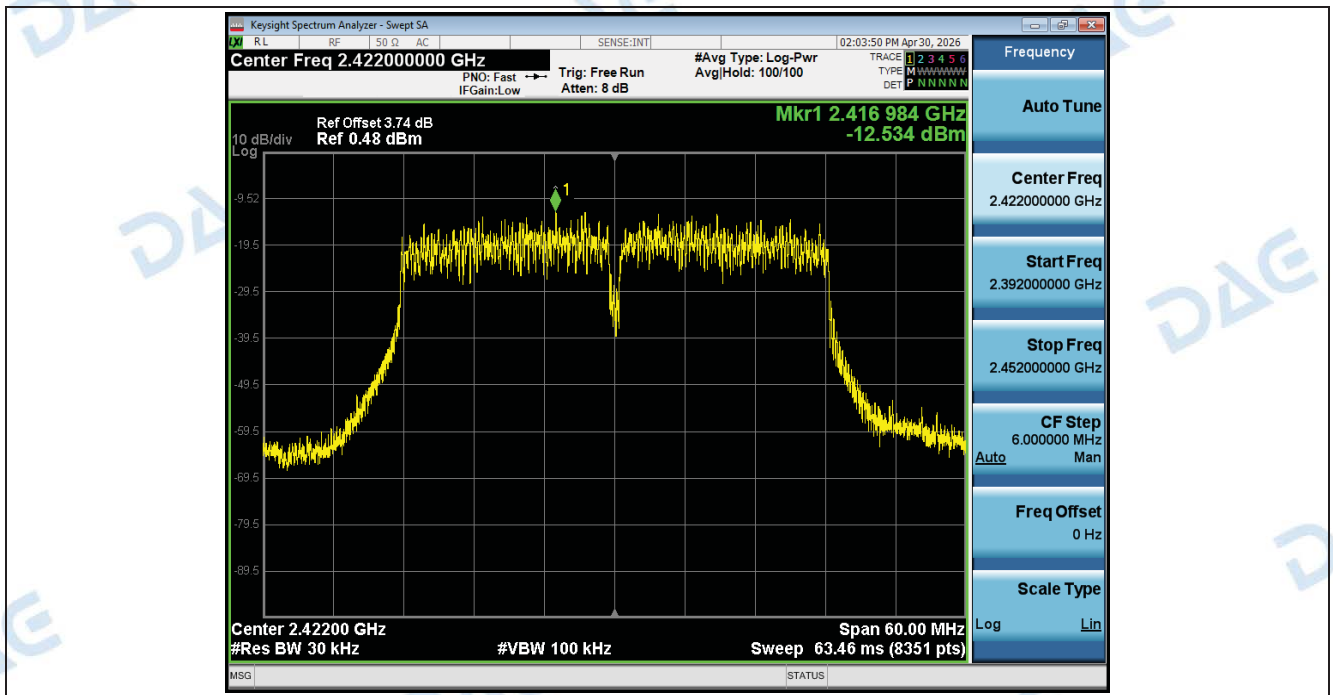
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11g\_2462



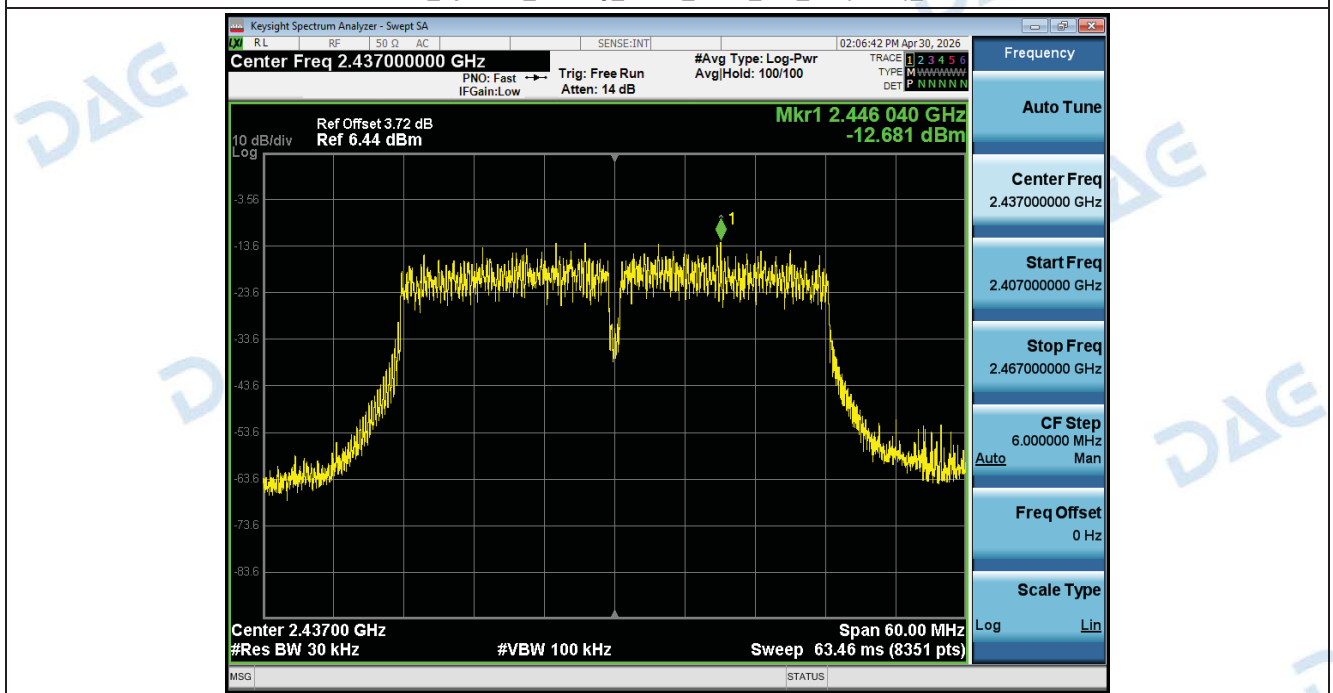
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11n(HT20)\_2437



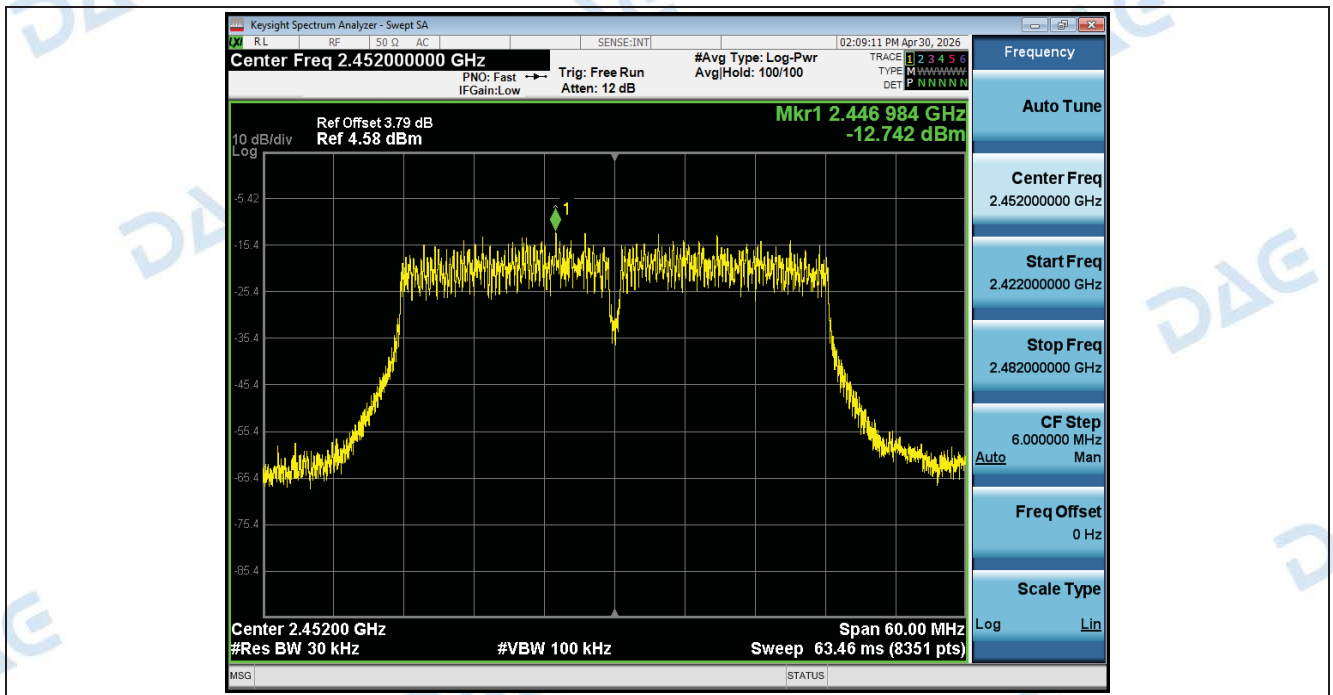
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11n(HT40)\_2422



Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11n(HT40)\_2437



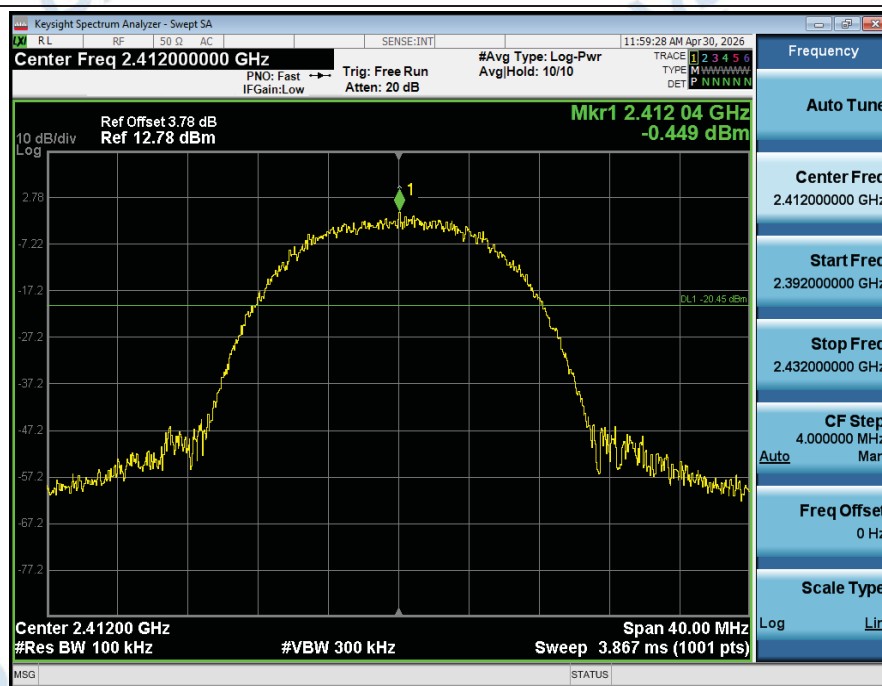
Power\_Spectral\_Density\_NVNT\_ANT1\_802\_11n(HT40)\_2452



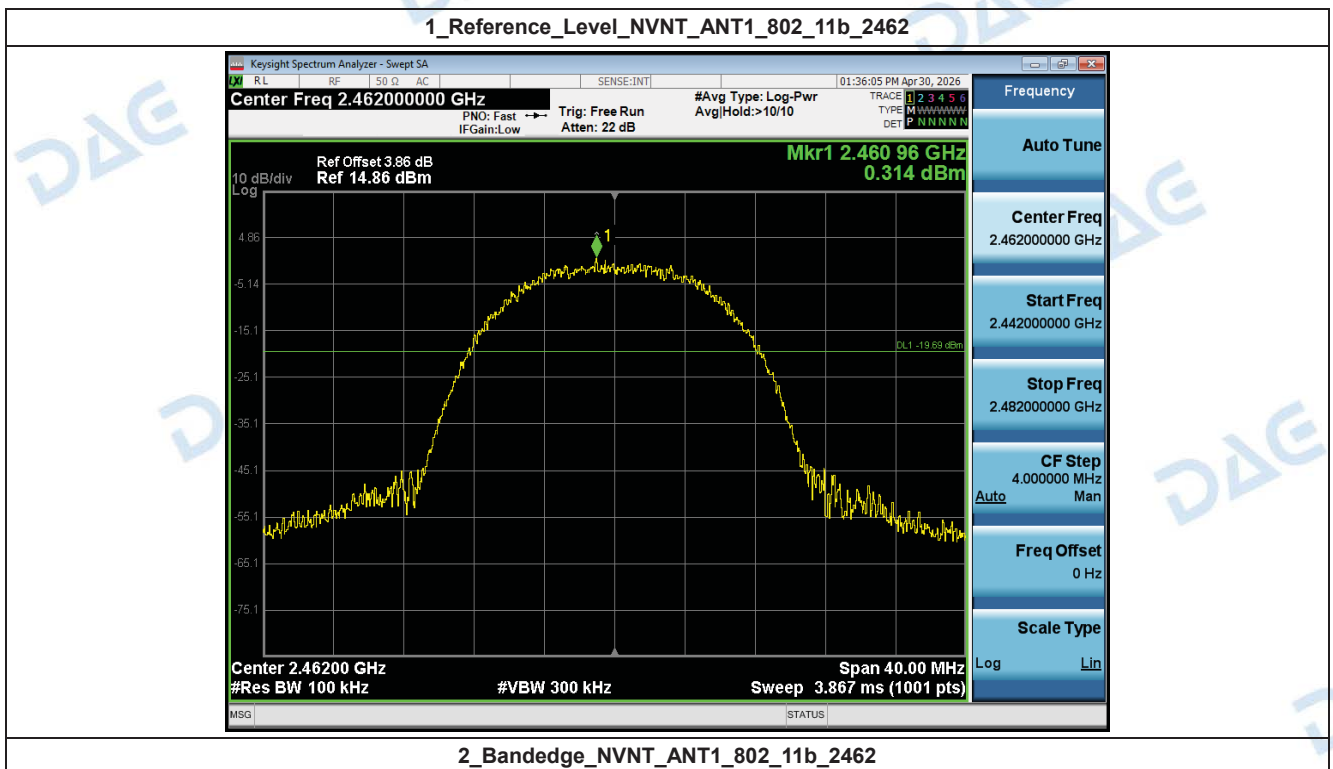
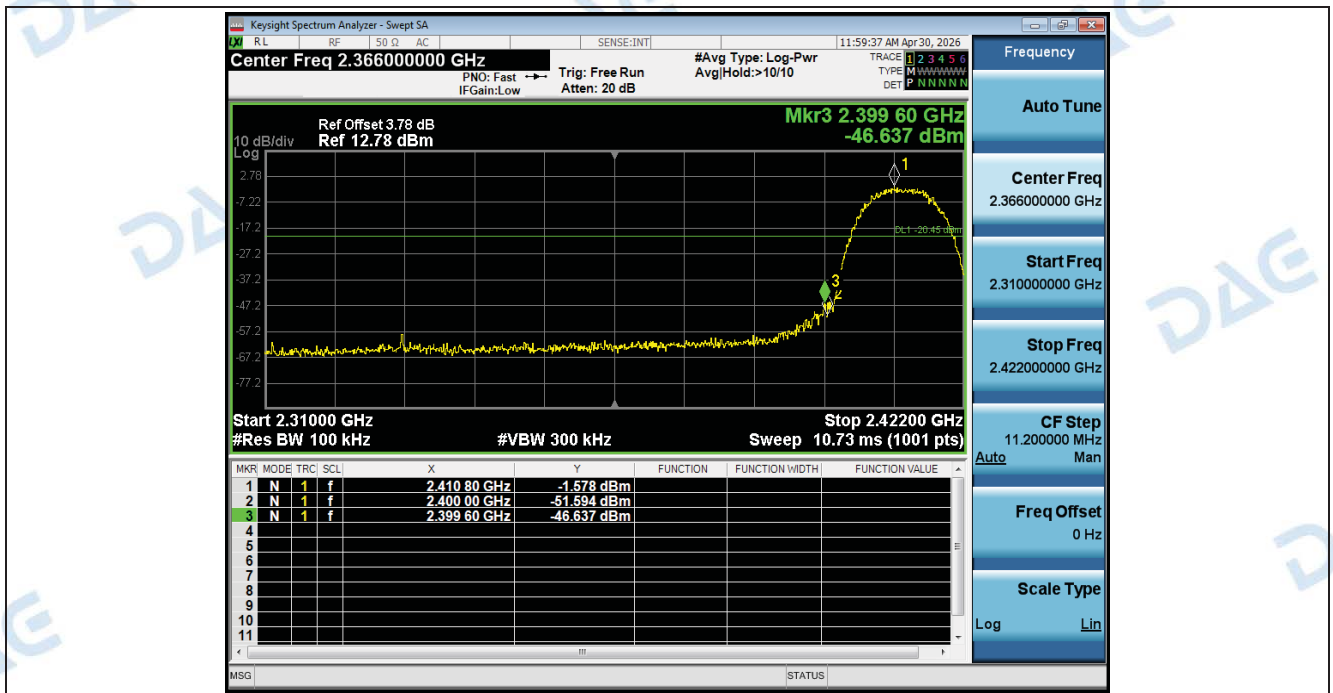
## 6. Bandedge

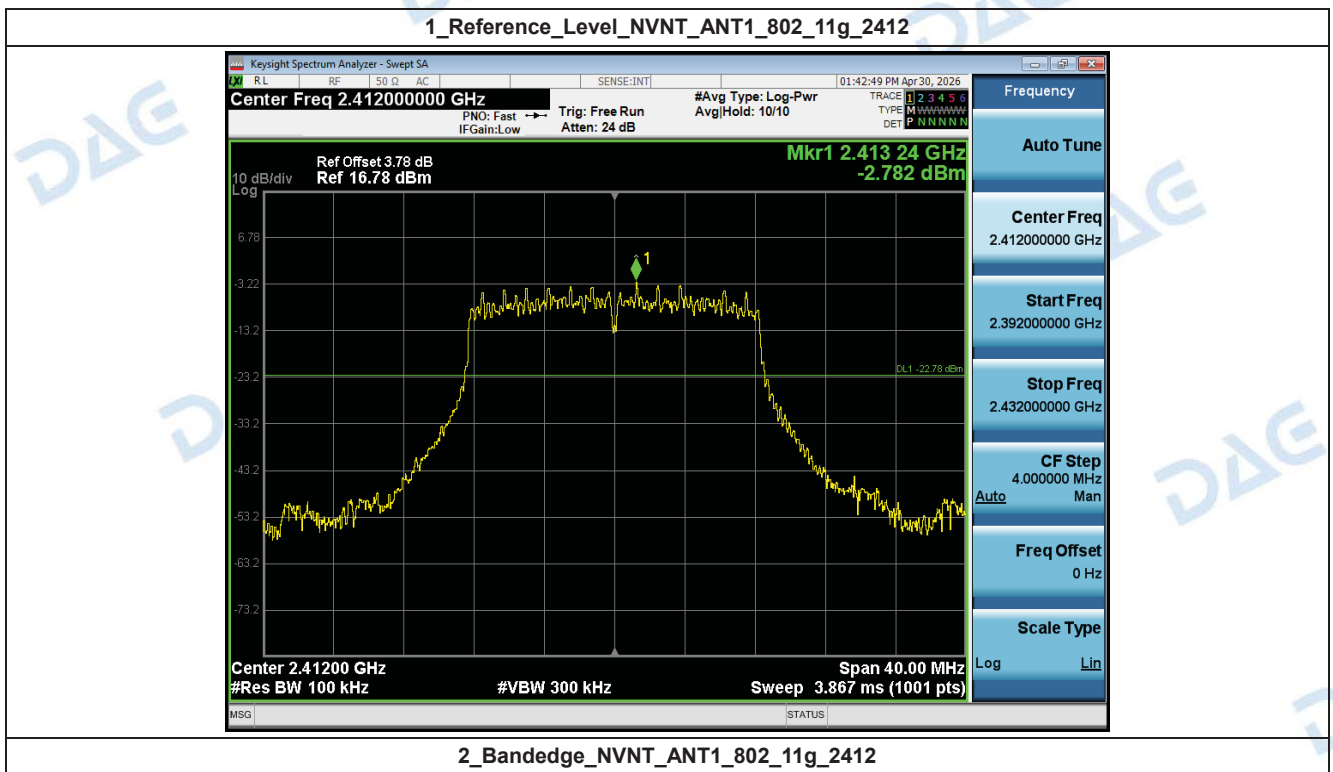
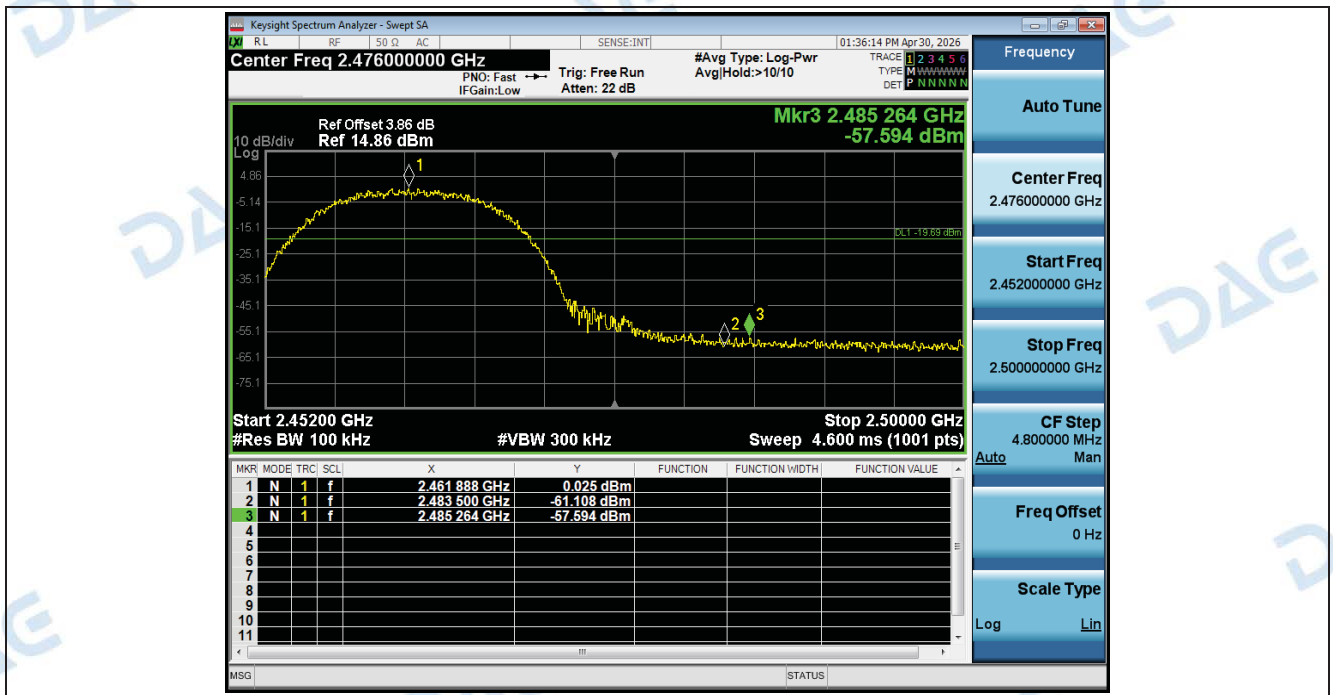
| Condition | Antenna | Modulation    | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|--------------------|---------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 802.11b       | 2412.00            | 2399.600            | -0.449         | -46.637             | -20.449    | Pass   |
| NVNT      | ANT1    | 802.11b       | 2462.00            | 2485.264            | 0.314          | -57.594             | -19.686    | Pass   |
| NVNT      | ANT1    | 802.11g       | 2412.00            | 2399.712            | -2.782         | -46.096             | -22.782    | Pass   |
| NVNT      | ANT1    | 802.11g       | 2462.00            | 2486.032            | -3.099         | -54.095             | -23.099    | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00            | 2399.824            | -3.932         | -43.705             | -23.932    | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00            | 2494.240            | -4.117         | -54.291             | -24.117    | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00            | 2399.760            | -7.754         | -50.388             | -27.754    | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00            | 2487.012            | -8.033         | -52.633             | -28.033    | Pass   |

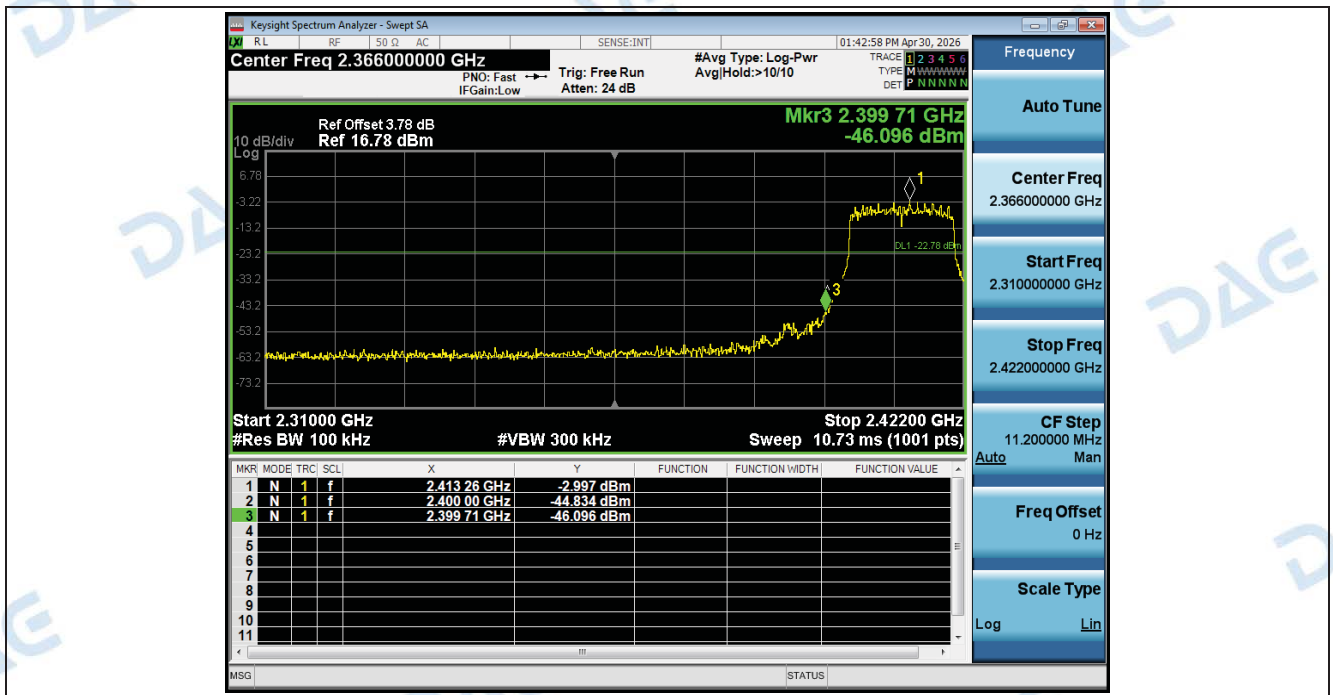
1\_Reference\_Level\_NVNT\_ANT1\_802\_11b\_2412



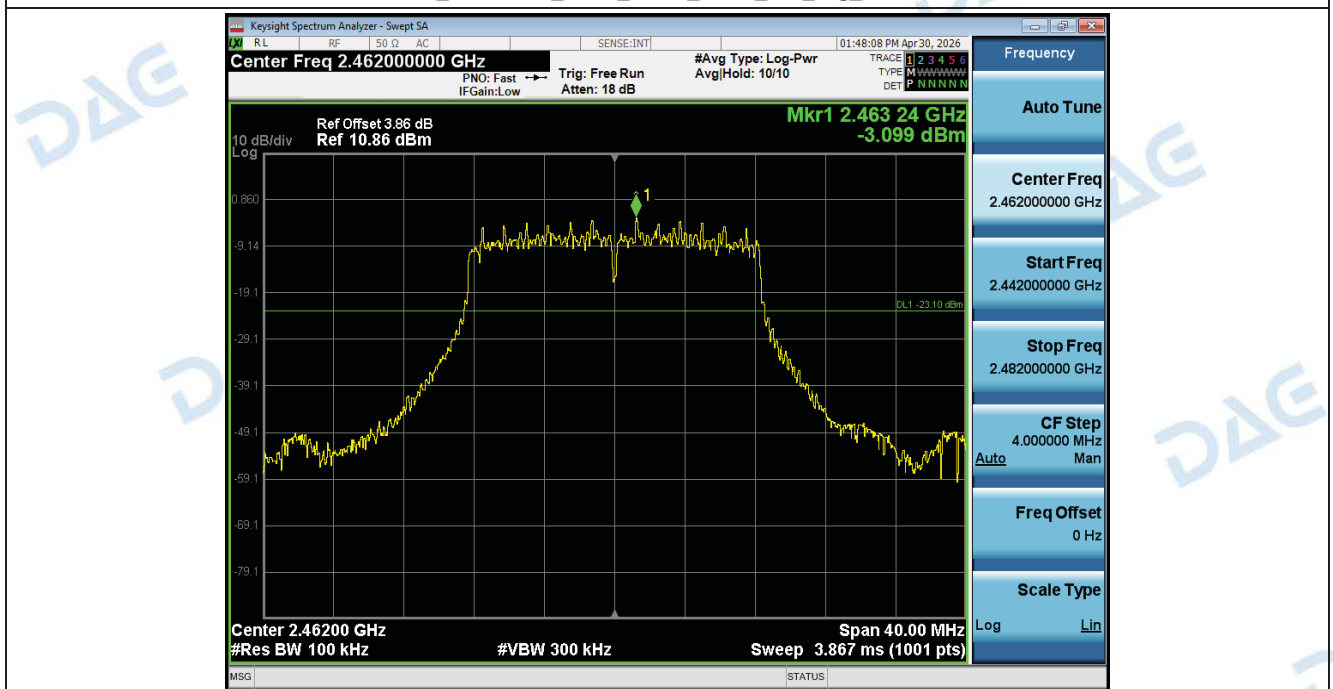
2\_Bandedge\_NVNT\_ANT1\_802\_11b\_2412



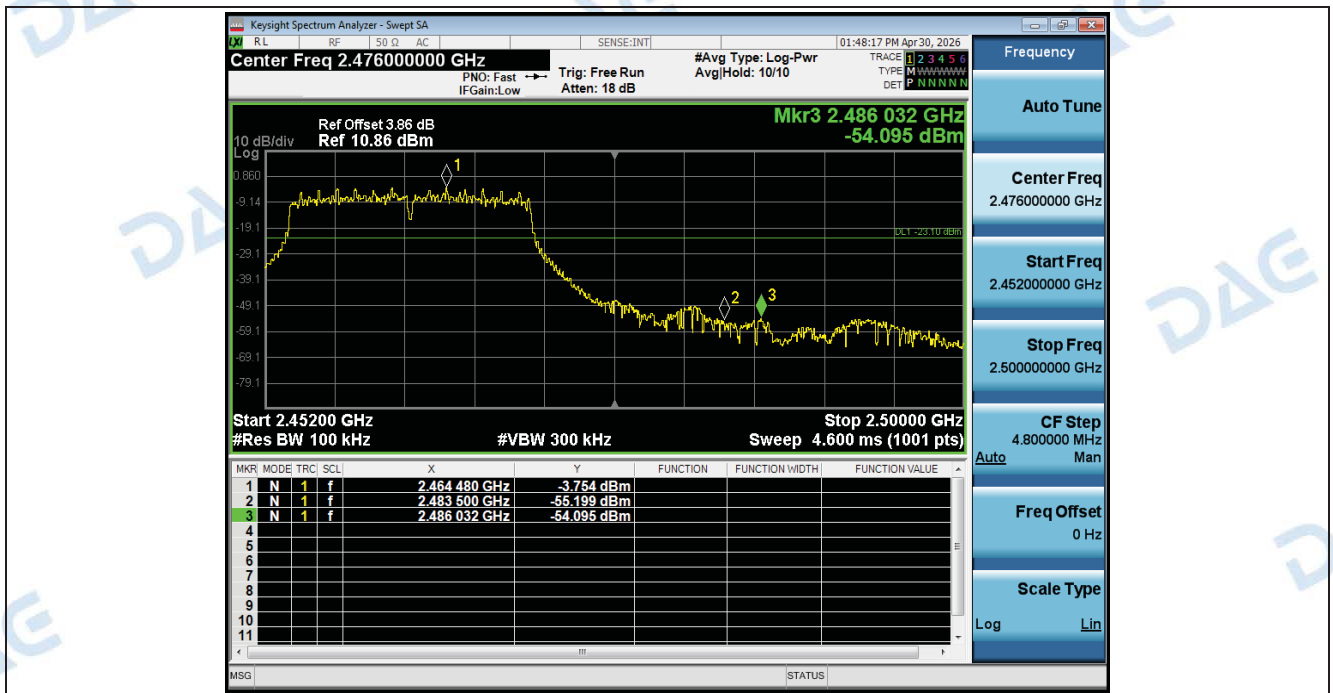




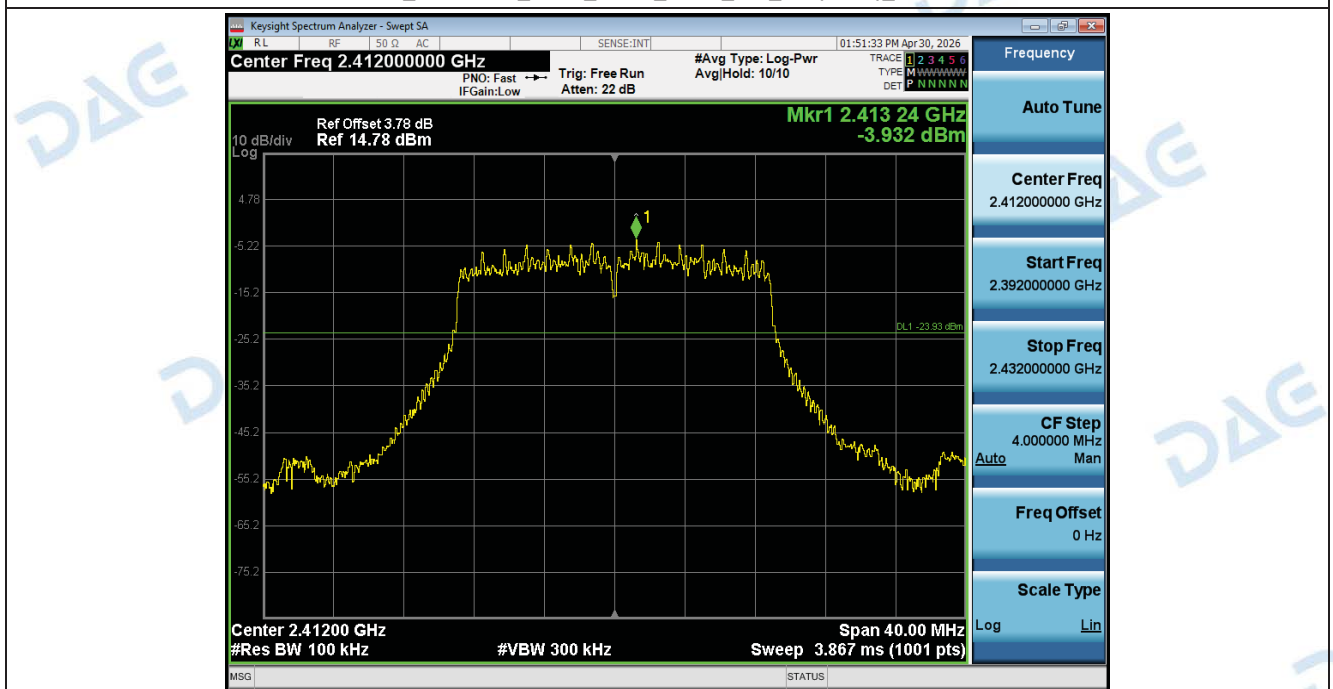
1\_Reference\_Level\_NVNT\_ANT1\_802\_11g\_2462



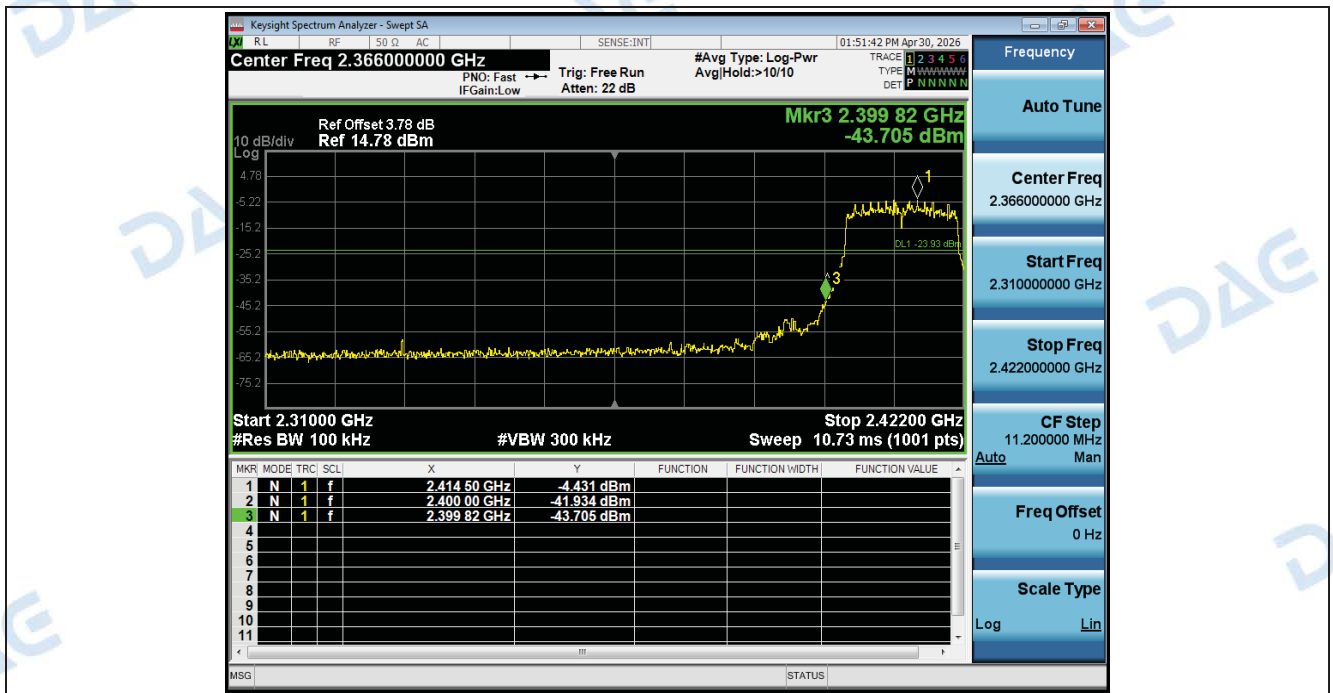
2\_Bandedge\_NVNT\_ANT1\_802\_11g\_2462



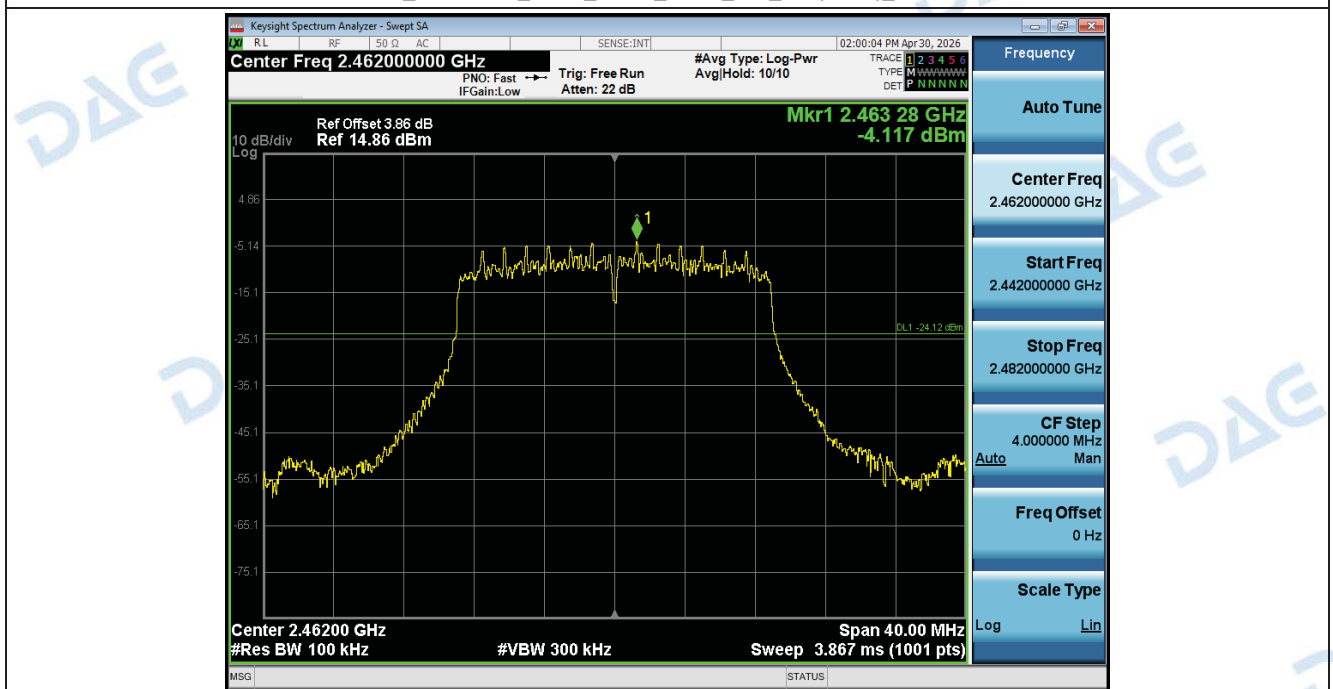
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2412



### 2\_Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_2412



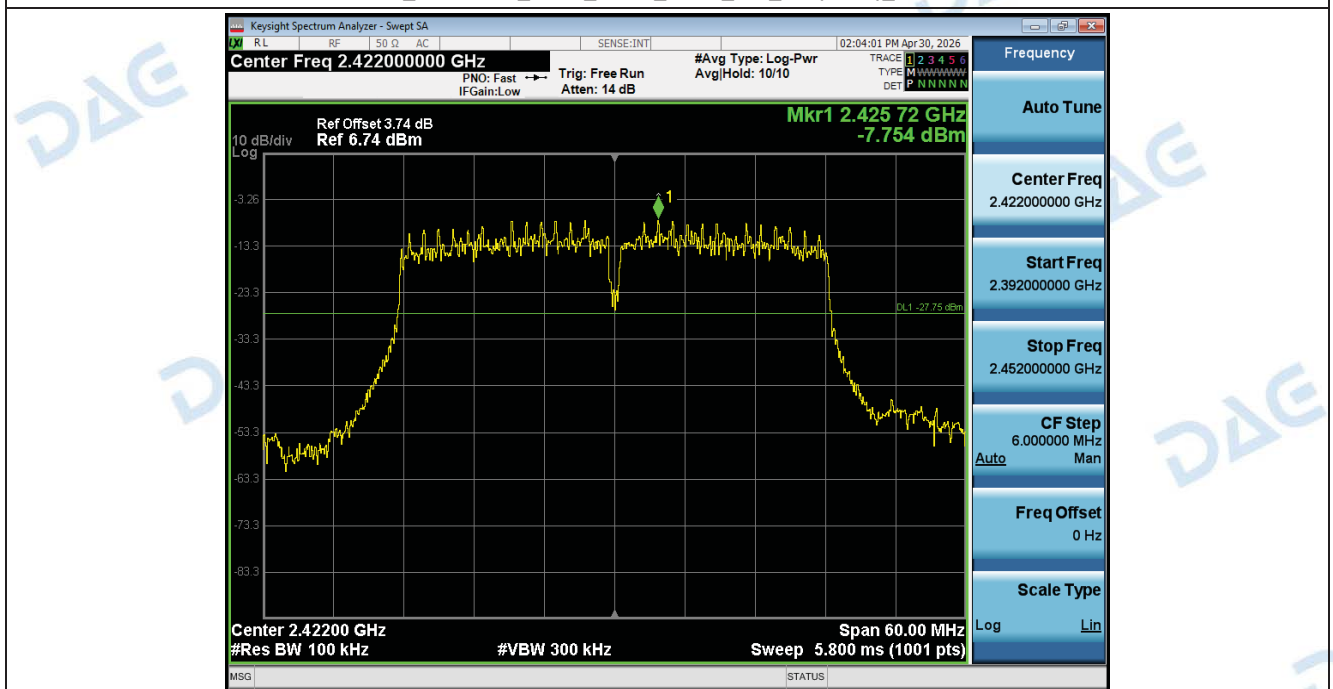
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2462



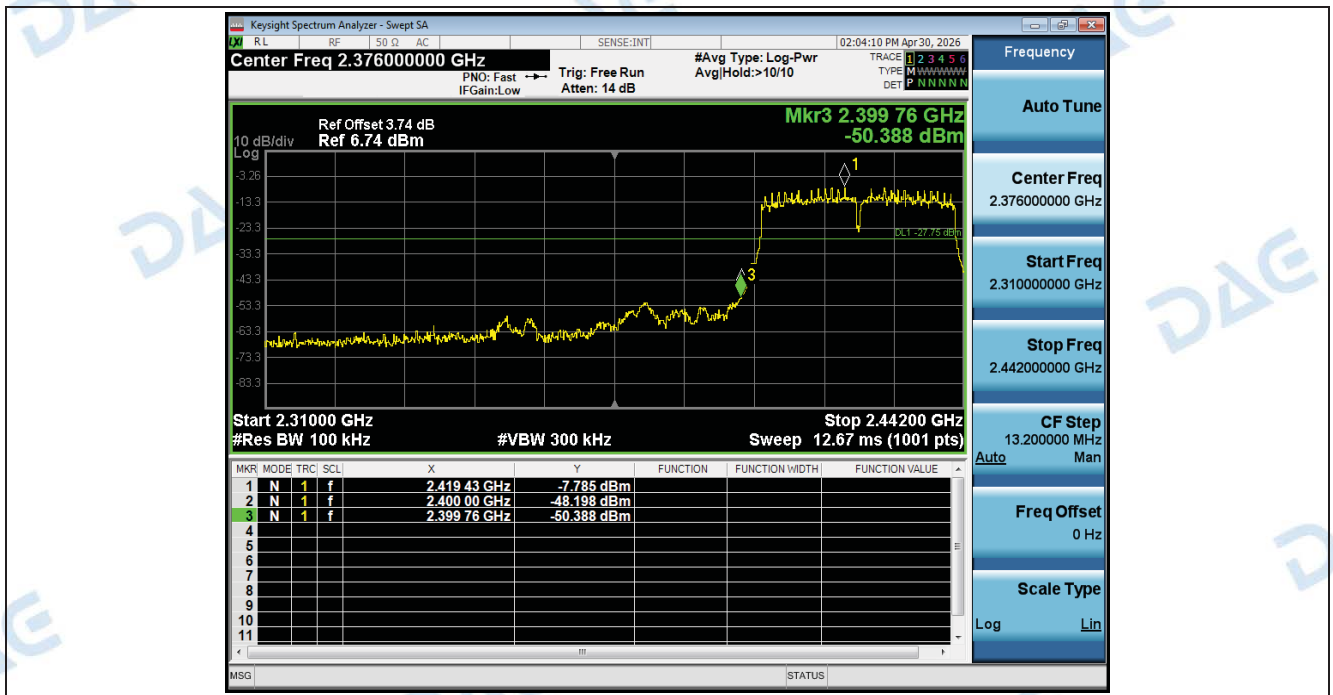
### 2\_Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_2462



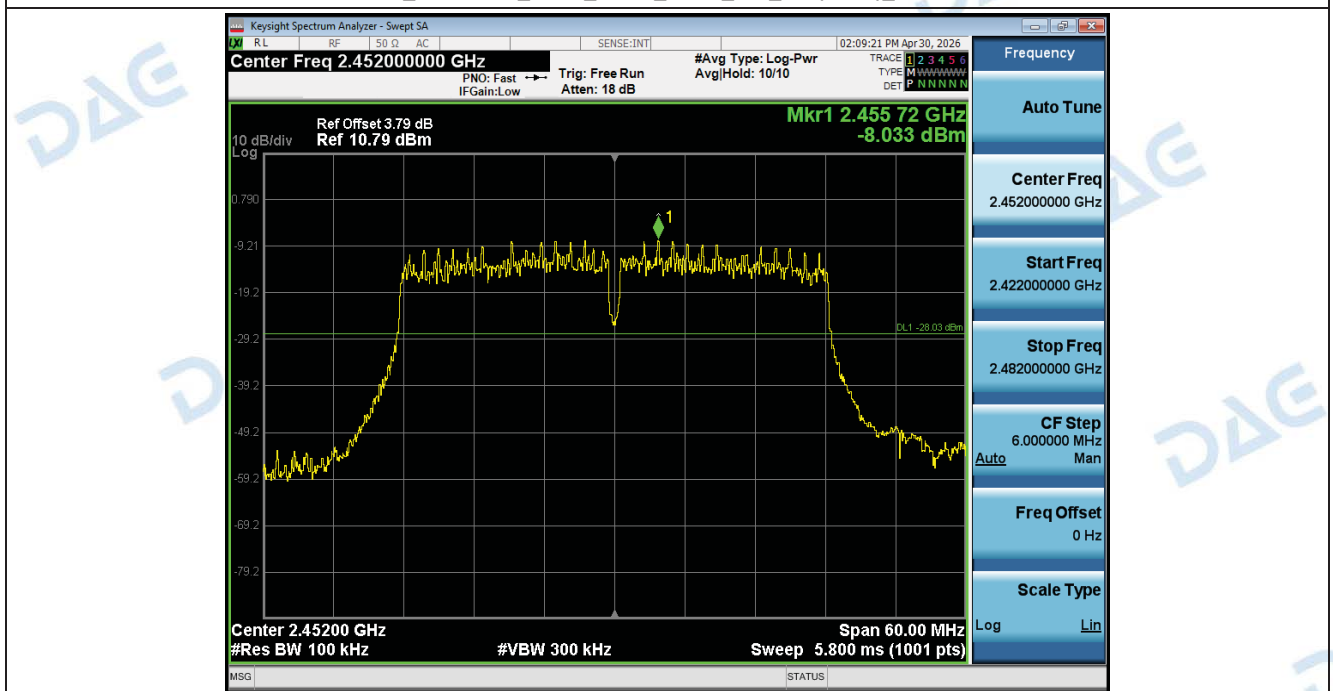
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2422



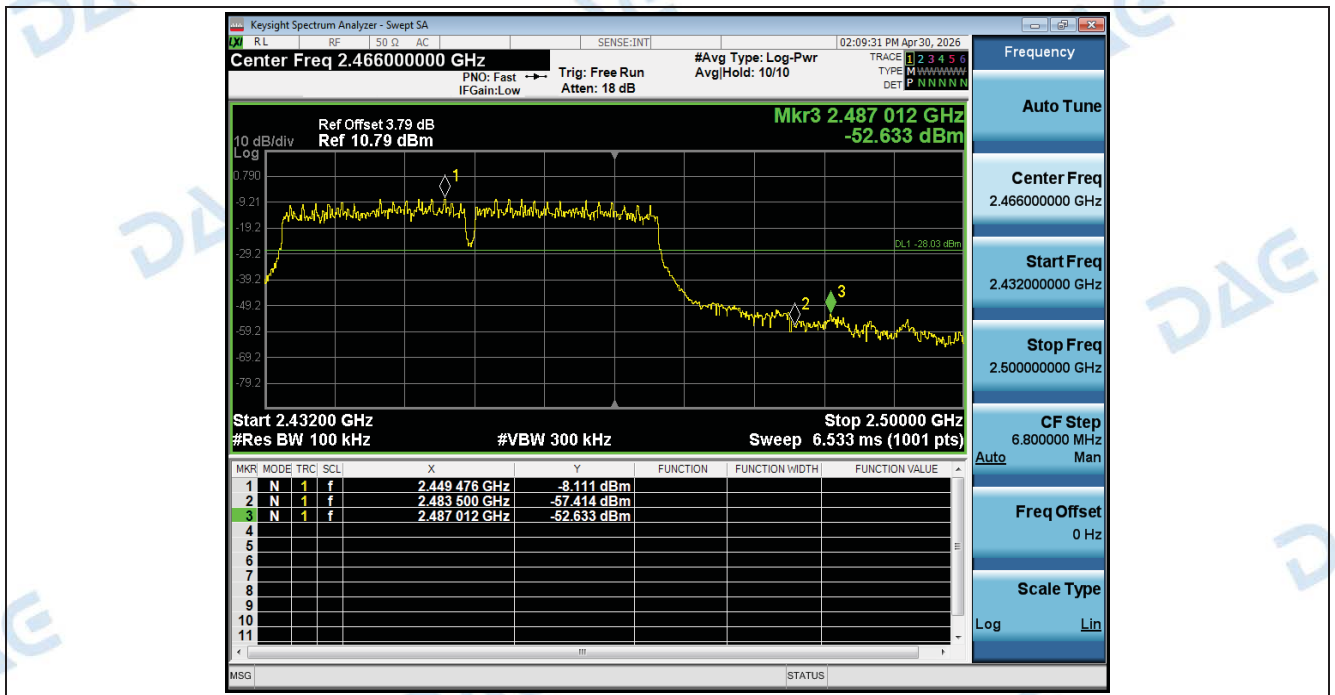
### 2\_Bandedge\_NVNT\_ANT1\_802\_11n(HT40)\_2422



1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2452



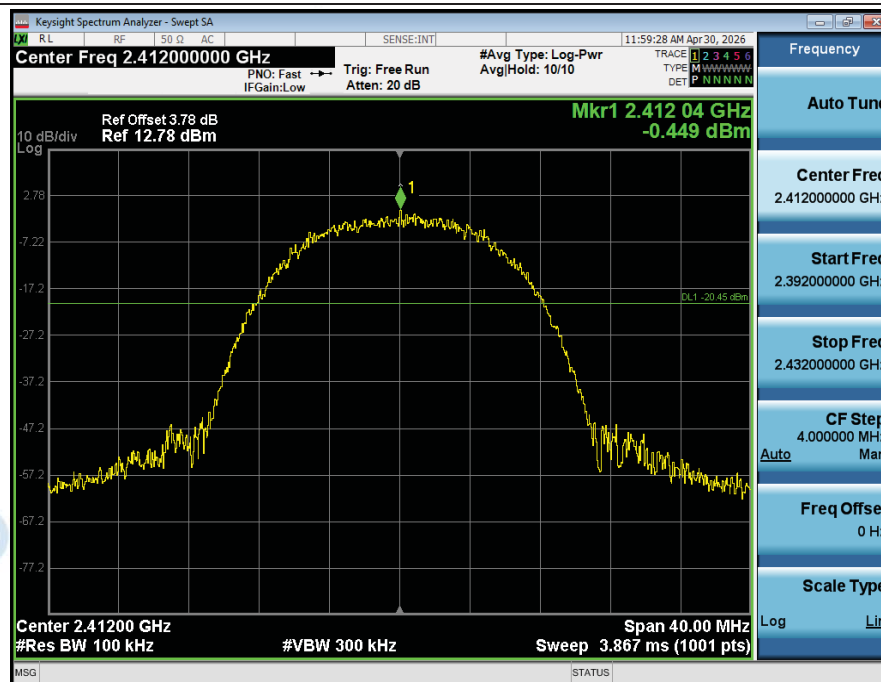
2\_Bandedge\_NVNT\_ANT1\_802\_11n(HT40)\_2452



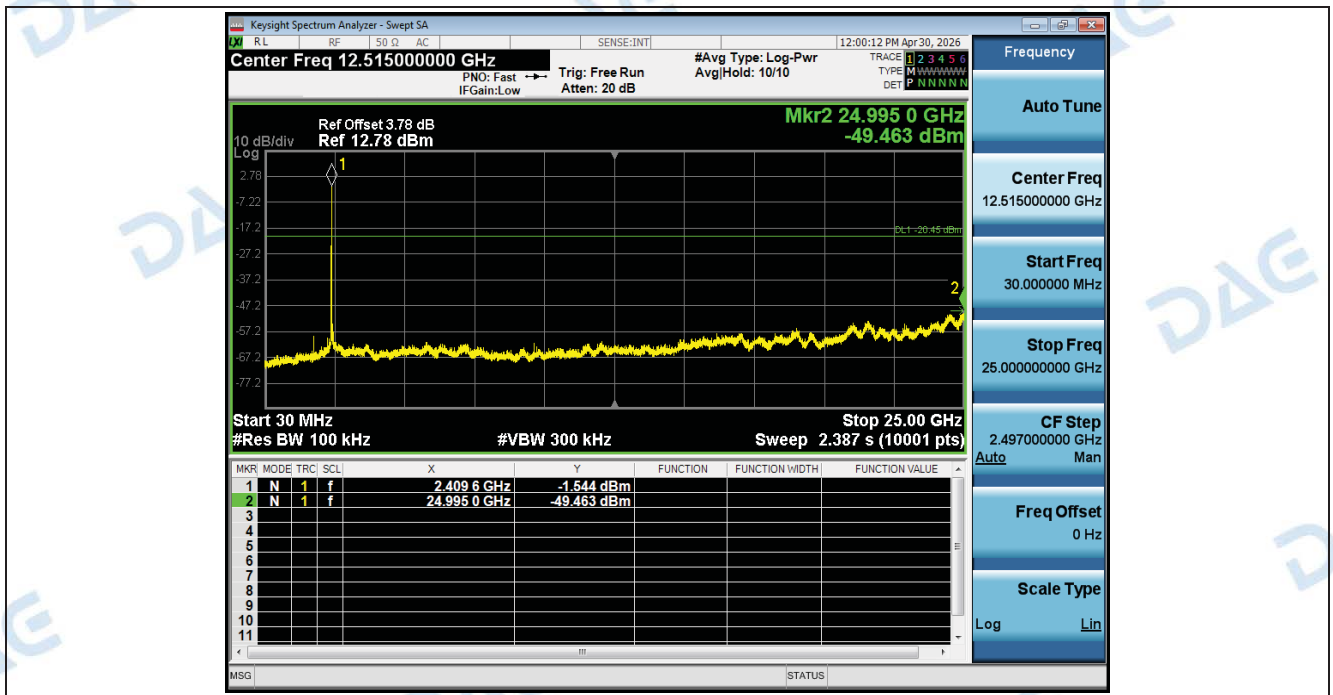
## 7. Spurious Emission

| Condition | Antenna | Modulation    | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|--------------------|---------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 802.11b       | 2412.00            | 24995.006           | -0.449         | -49.463             | -20.449    | Pass   |
| NVNT      | ANT1    | 802.11b       | 2437.00            | 24932.581           | -1.171         | -49.846             | -21.171    | Pass   |
| NVNT      | ANT1    | 802.11b       | 2462.00            | 24450.660           | 0.314          | -48.092             | -19.686    | Pass   |
| NVNT      | ANT1    | 802.11g       | 2412.00            | 24975.030           | -2.782         | -46.481             | -22.782    | Pass   |
| NVNT      | ANT1    | 802.11g       | 2437.00            | 24962.545           | -3.430         | -51.556             | -23.430    | Pass   |
| NVNT      | ANT1    | 802.11g       | 2462.00            | 24490.612           | -3.099         | -52.172             | -23.099    | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2412.00            | 24987.515           | -3.932         | -48.264             | -23.932    | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2437.00            | 24925.090           | -4.285         | -48.077             | -24.285    | Pass   |
| NVNT      | ANT1    | 802.11n(HT20) | 2462.00            | 24990.012           | -4.117         | -48.278             | -24.117    | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2422.00            | 24470.636           | -7.754         | -55.998             | -27.754    | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2437.00            | 24990.012           | -8.235         | -52.384             | -28.235    | Pass   |
| NVNT      | ANT1    | 802.11n(HT40) | 2452.00            | 24997.503           | -8.033         | -51.624             | -28.033    | Pass   |

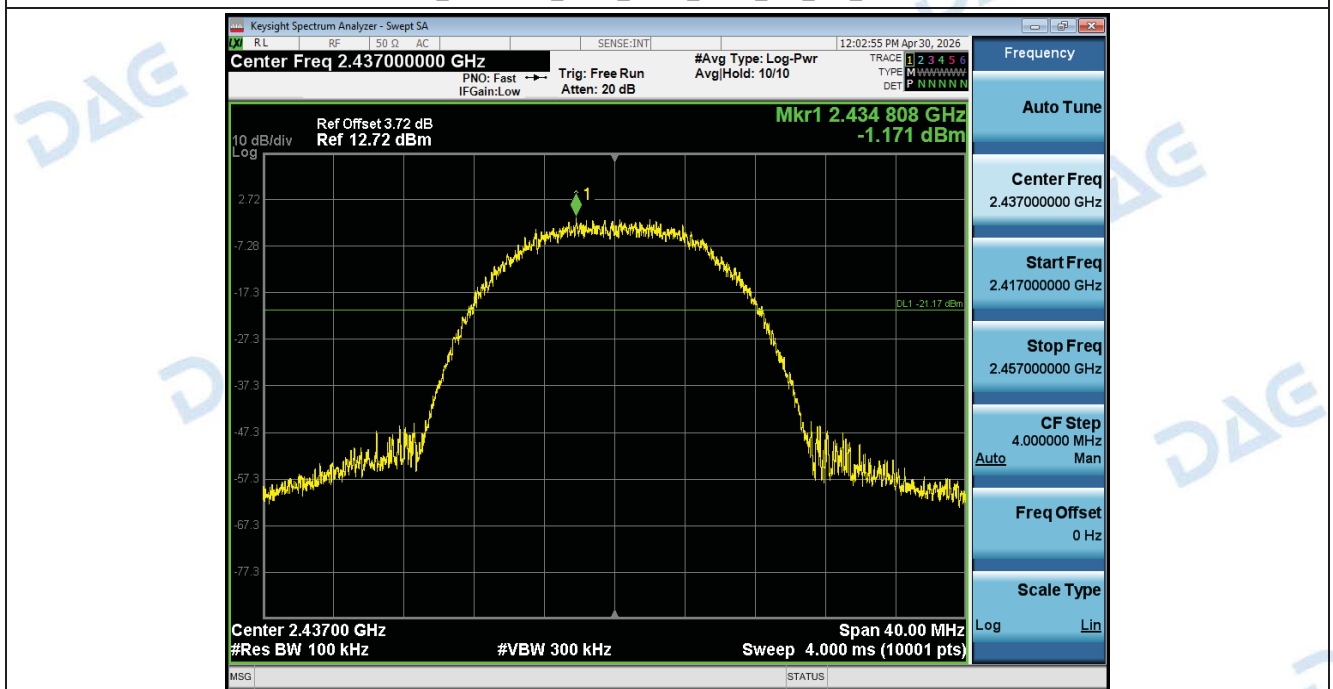
1\_Reference\_Level\_NVNT\_ANT1\_802\_11b\_2412



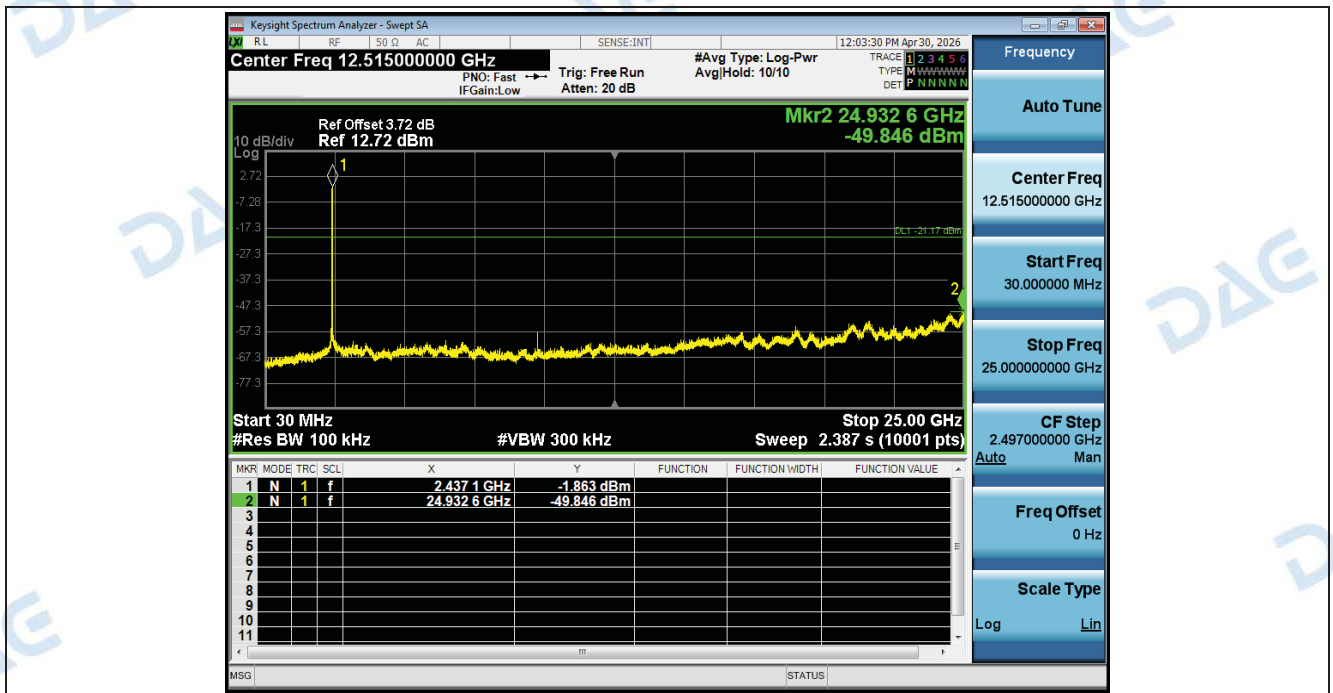
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11b\_2412



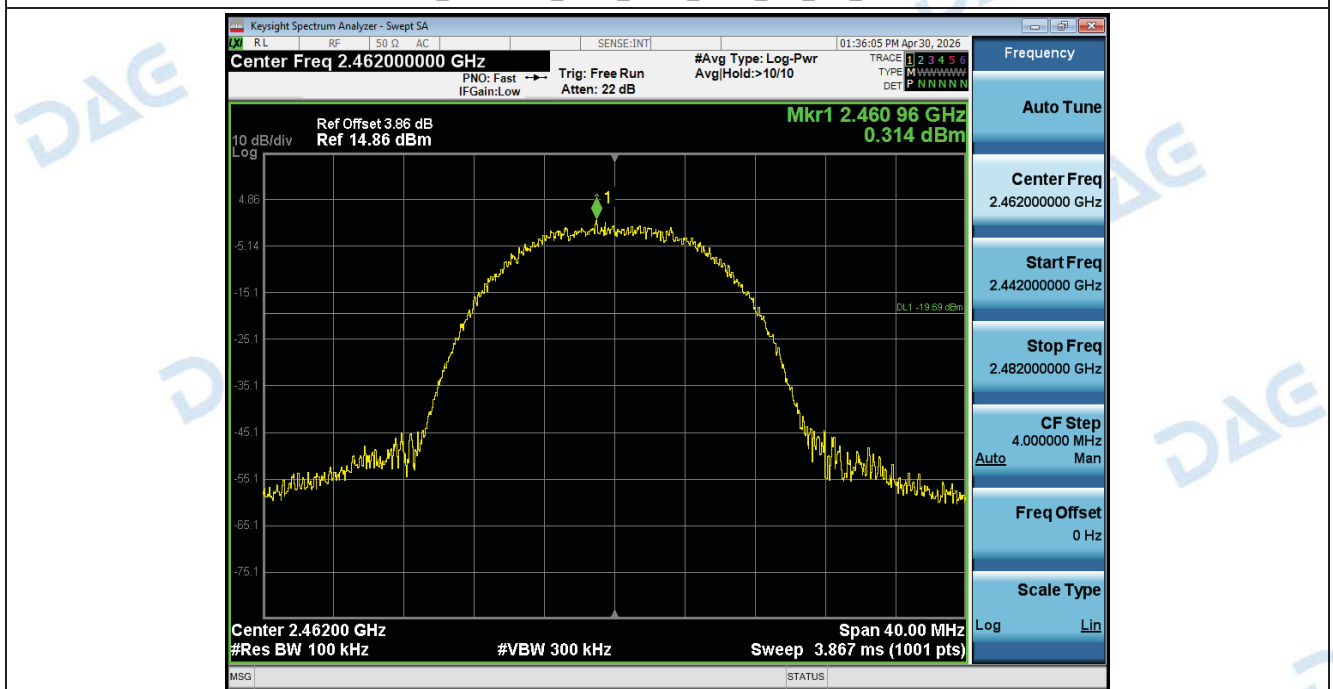
1\_Reference\_Level\_NVNT\_ANT1\_802\_11b\_2437



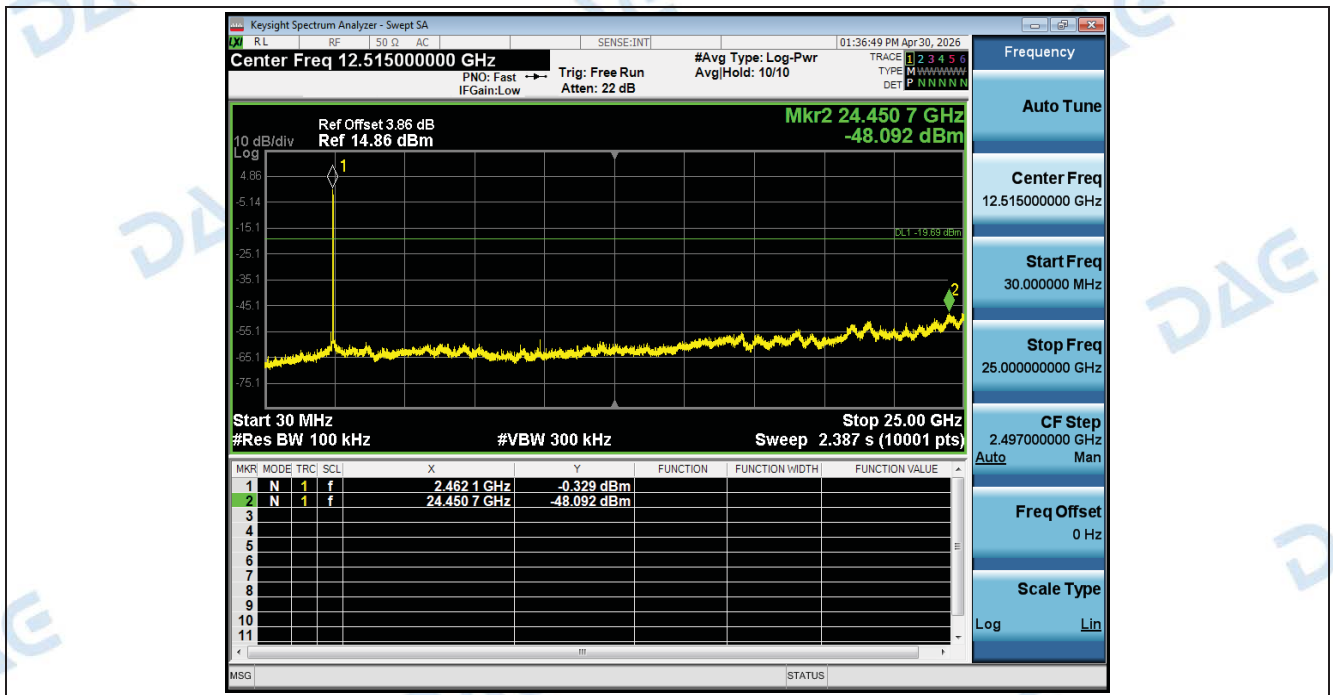
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11b\_2437



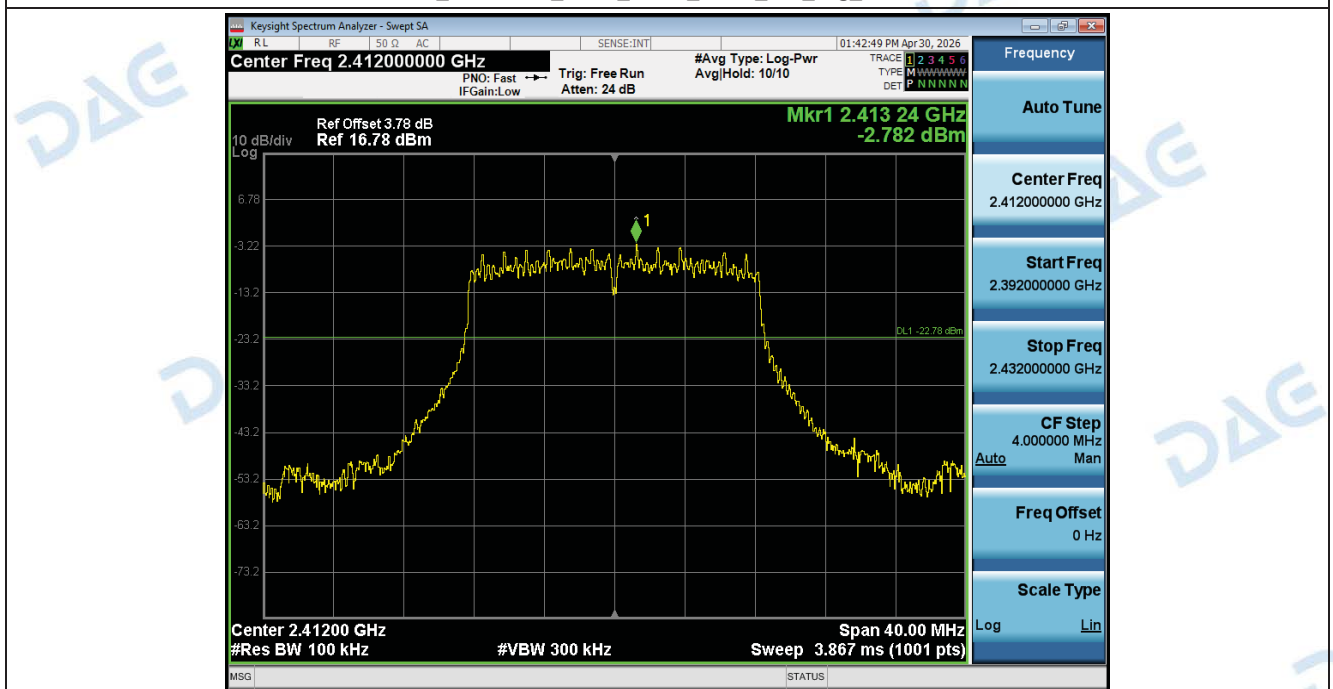
1\_Reference\_Level\_NVNT\_ANT1\_802\_11b\_2462



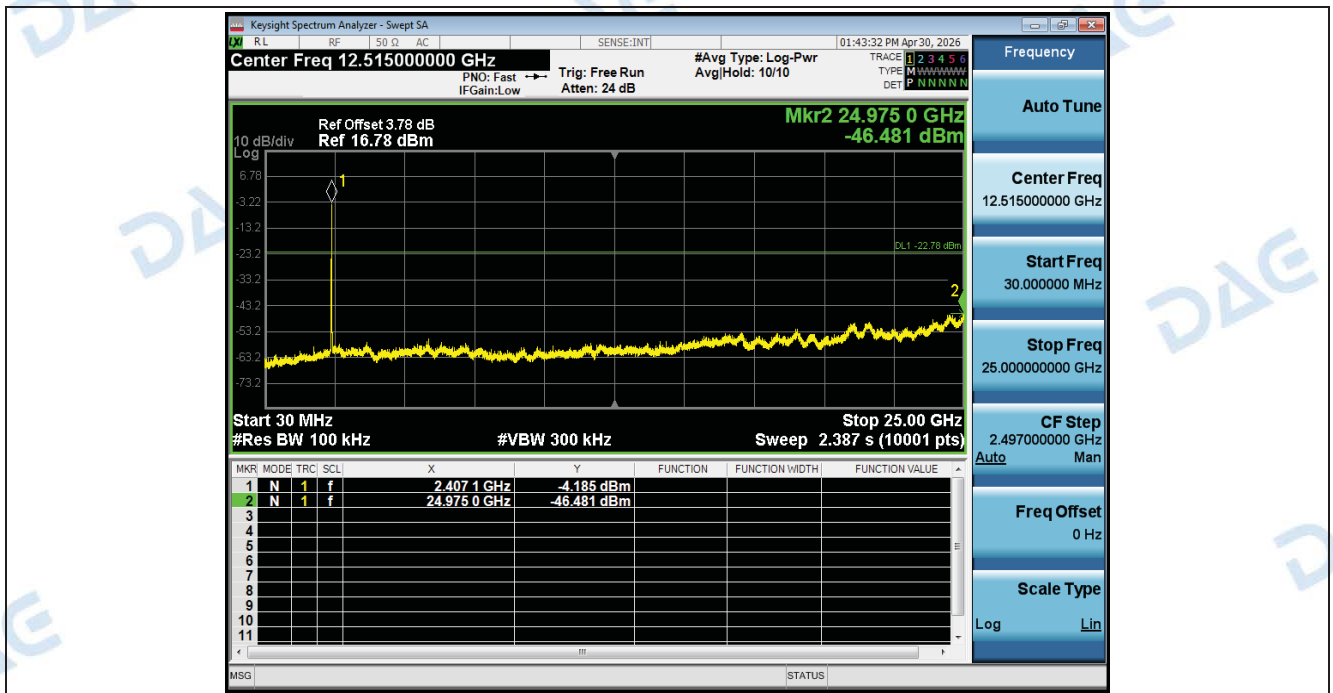
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11b\_2462



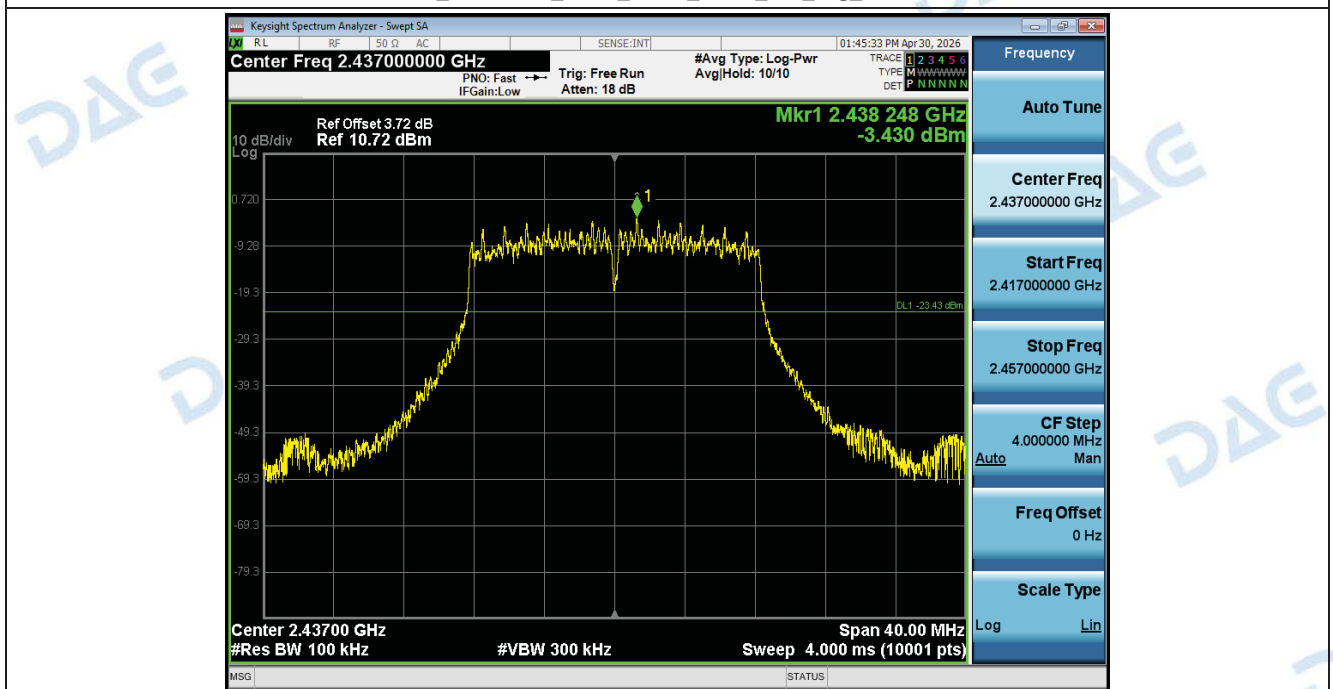
1\_Reference\_Level\_NVNT\_ANT1\_802\_11g\_2412



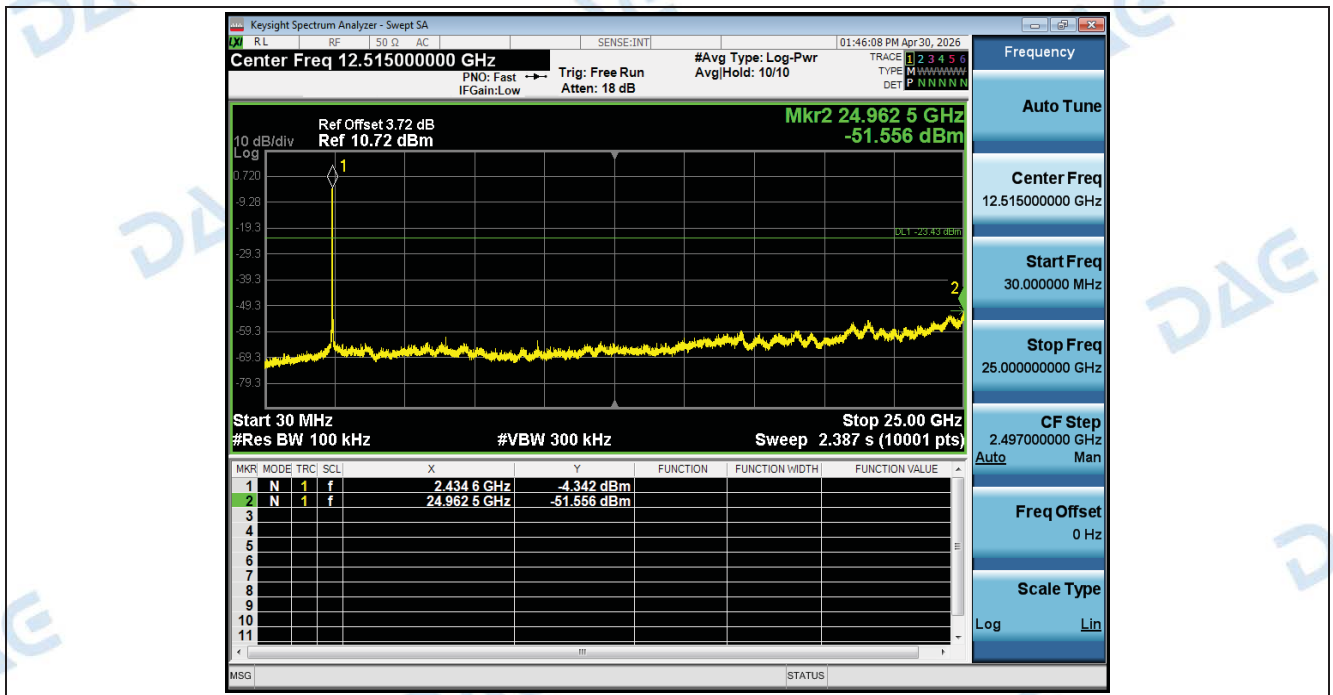
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11g\_2412



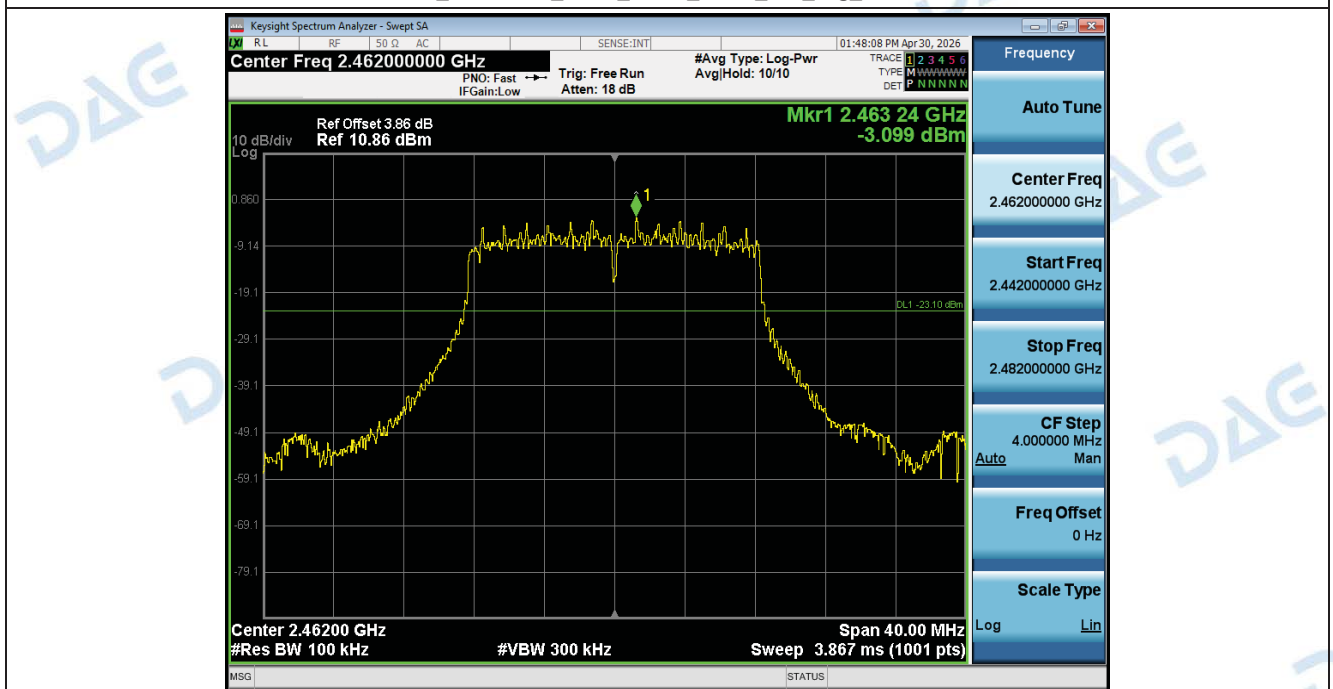
1\_Reference\_Level\_NVNT\_ANT1\_802\_11g\_2437



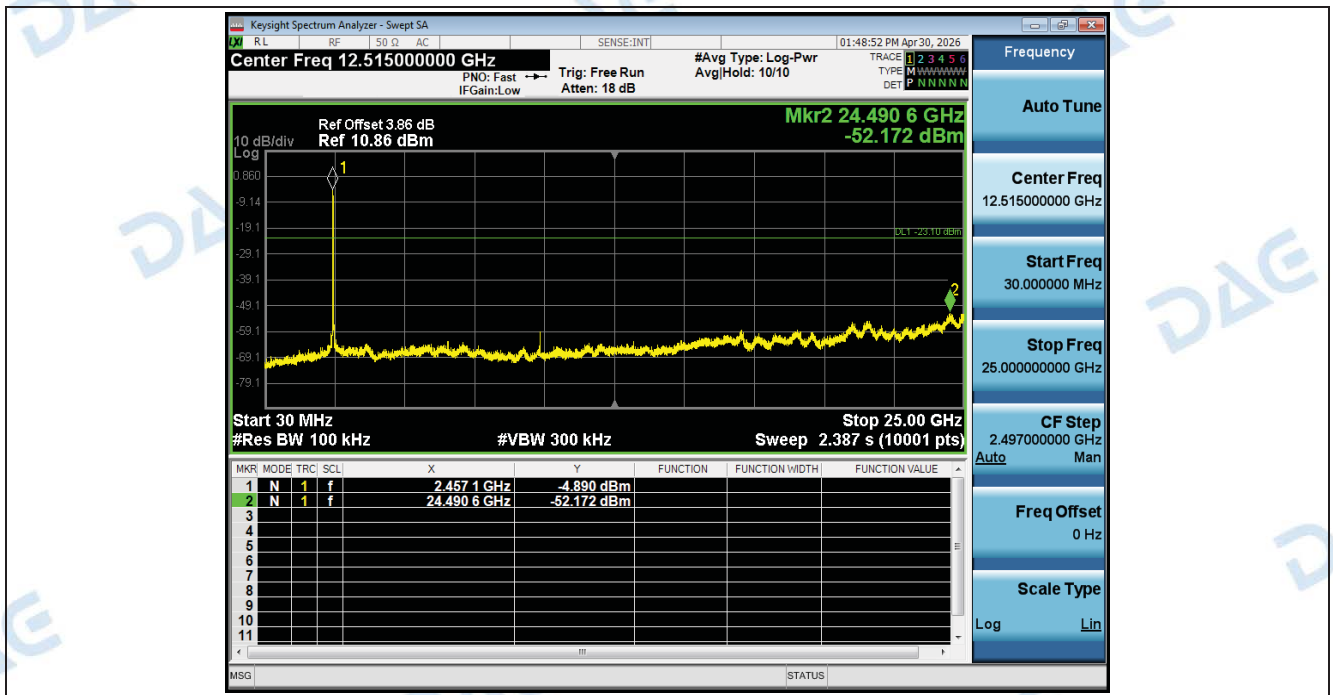
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11g\_2437



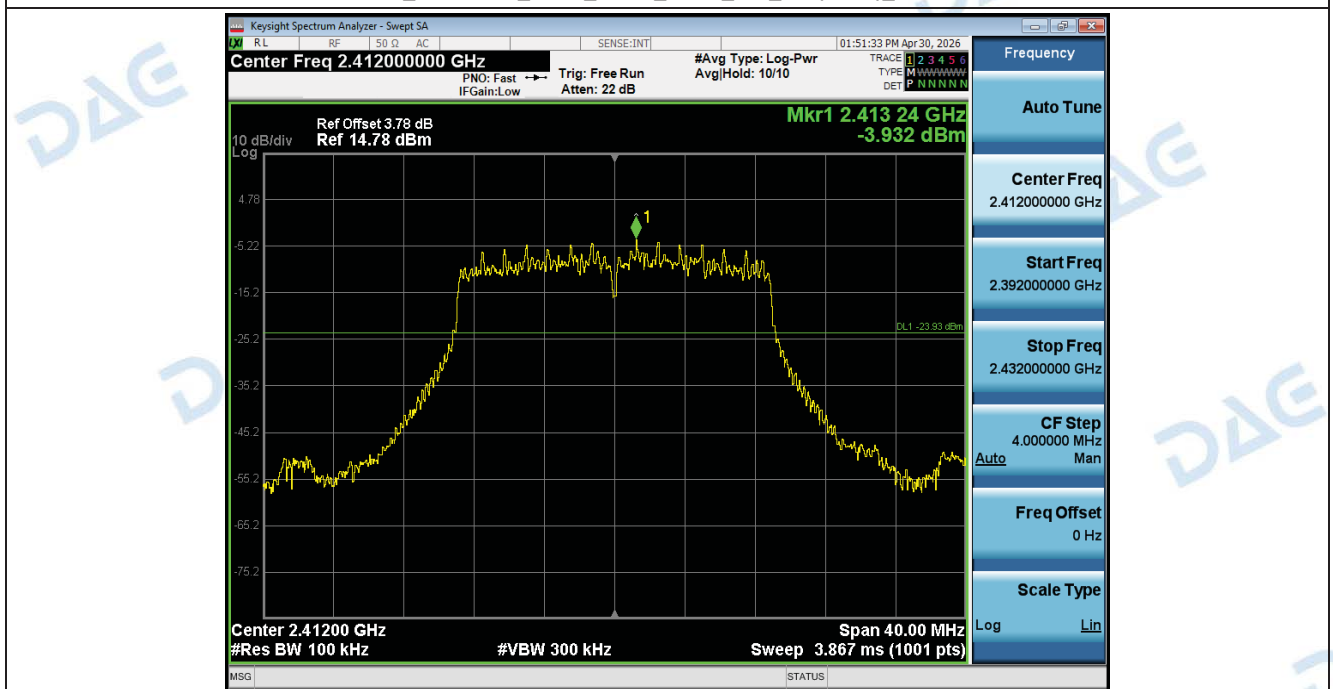
1\_Reference\_Level\_NVNT\_ANT1\_802\_11g\_2462



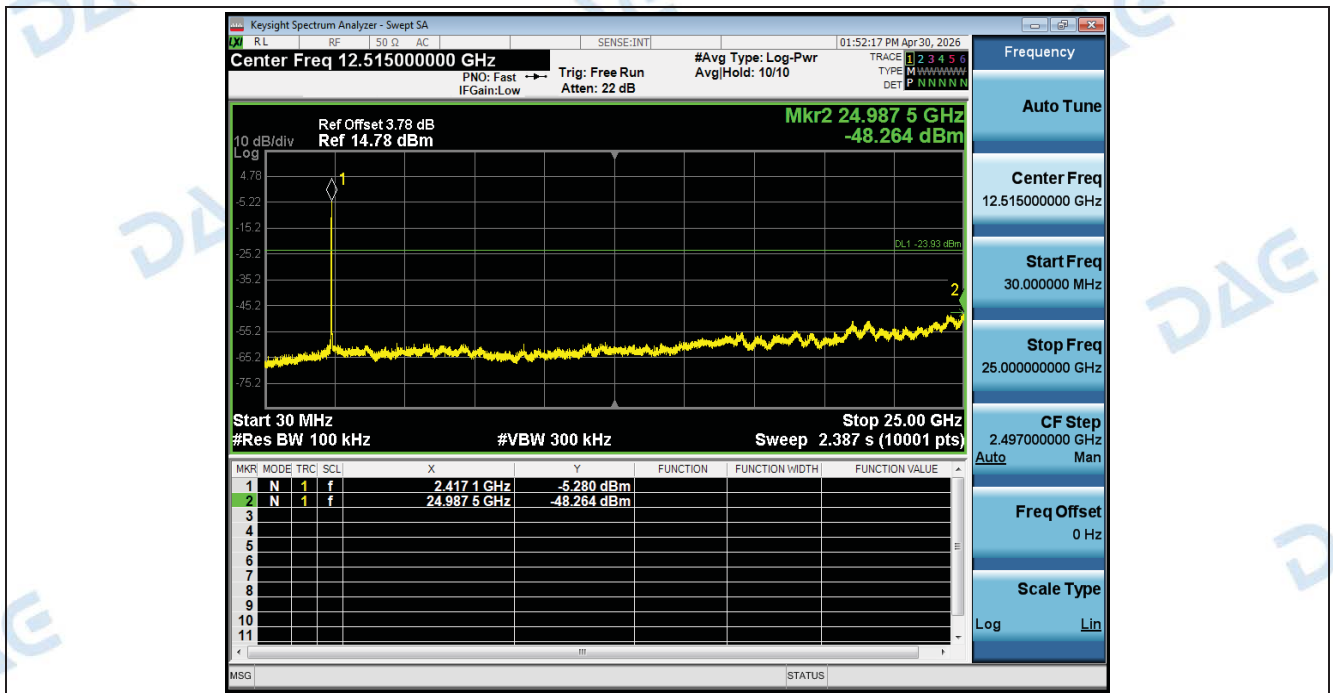
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11g\_2462



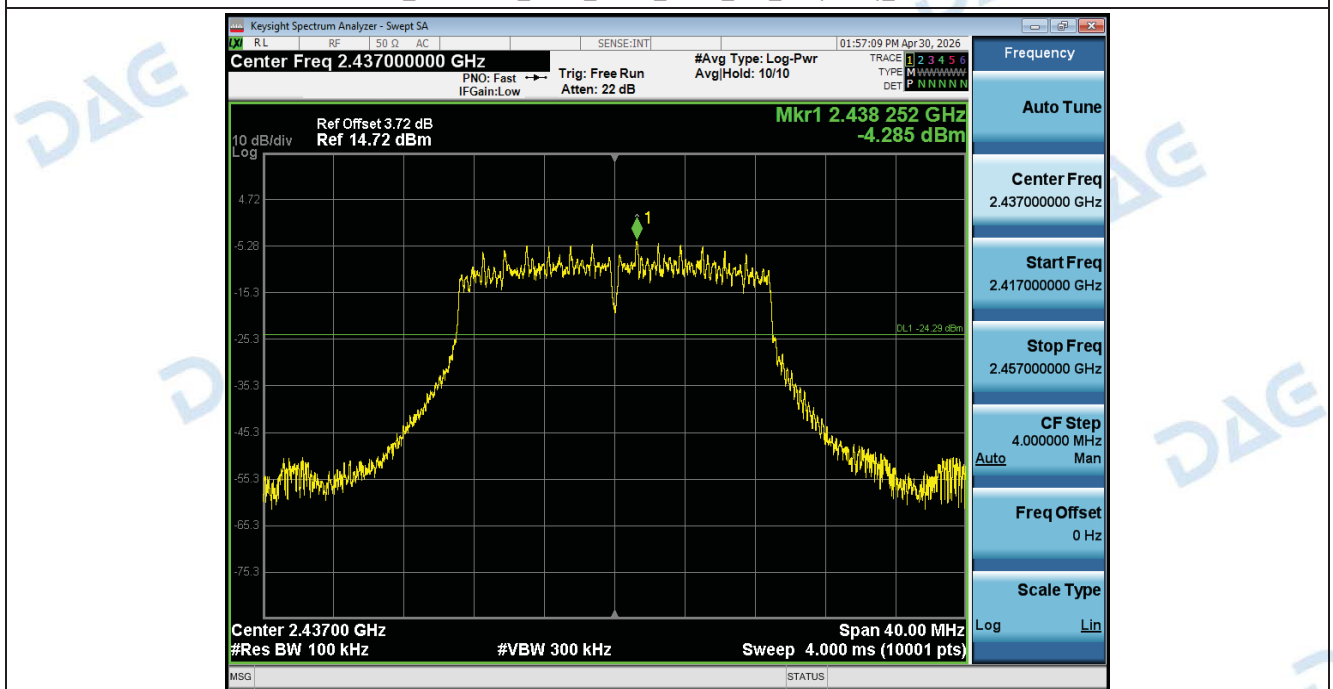
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2412



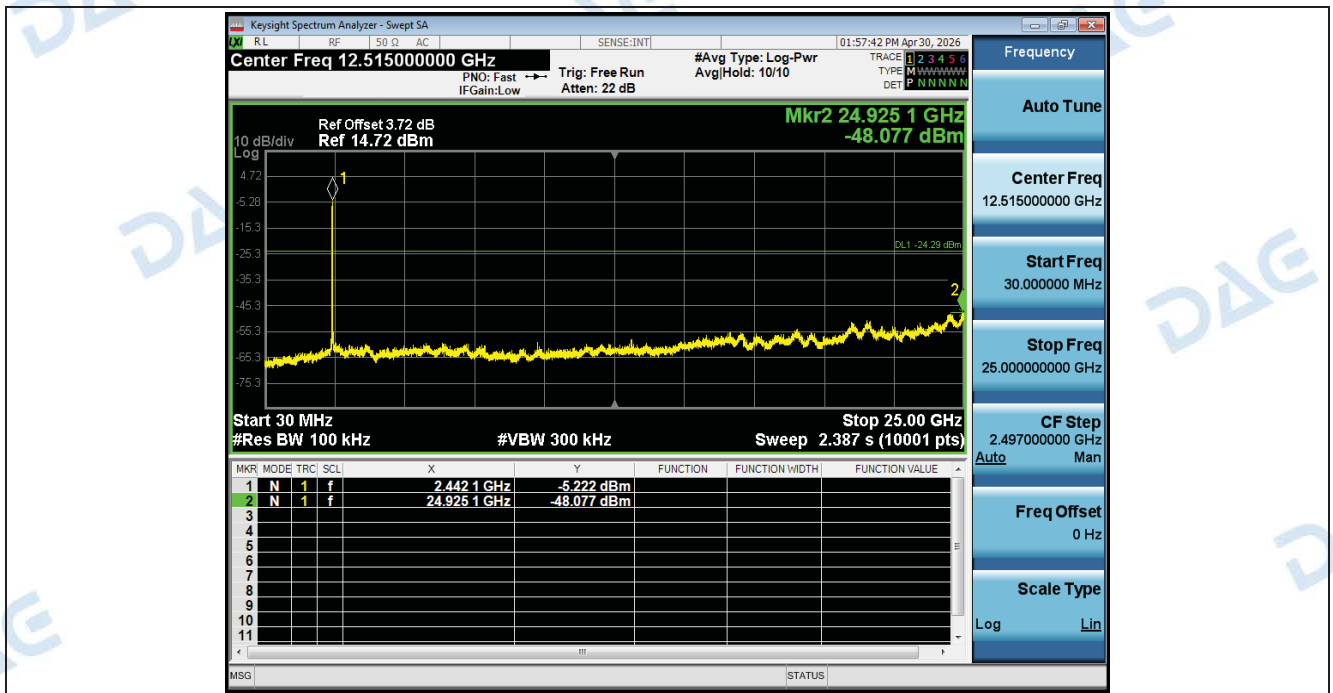
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT20)\_2412



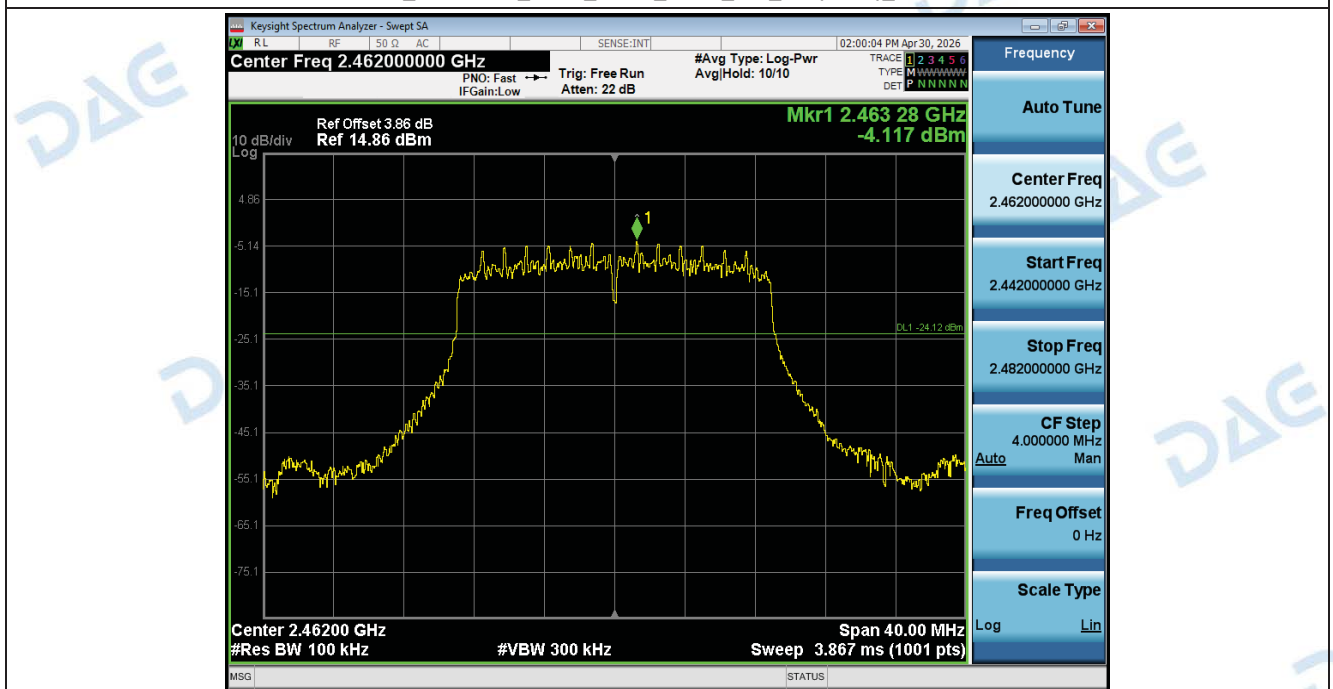
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2437



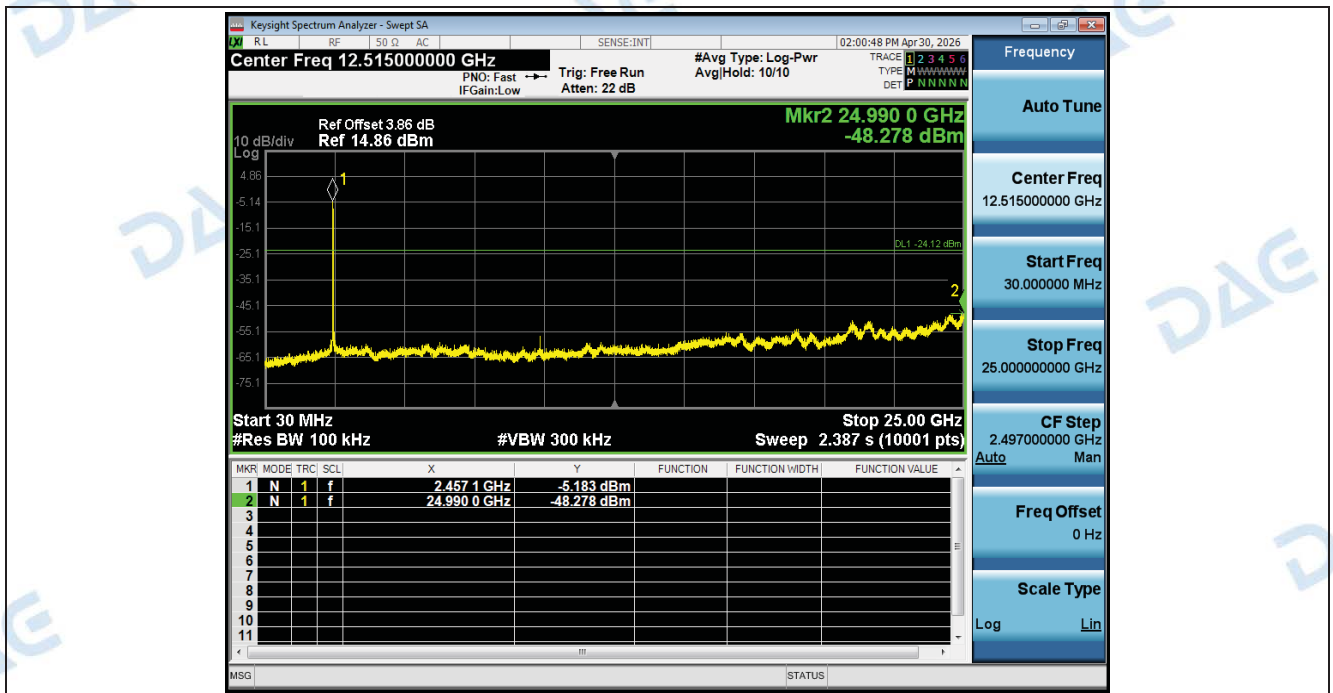
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT20)\_2437



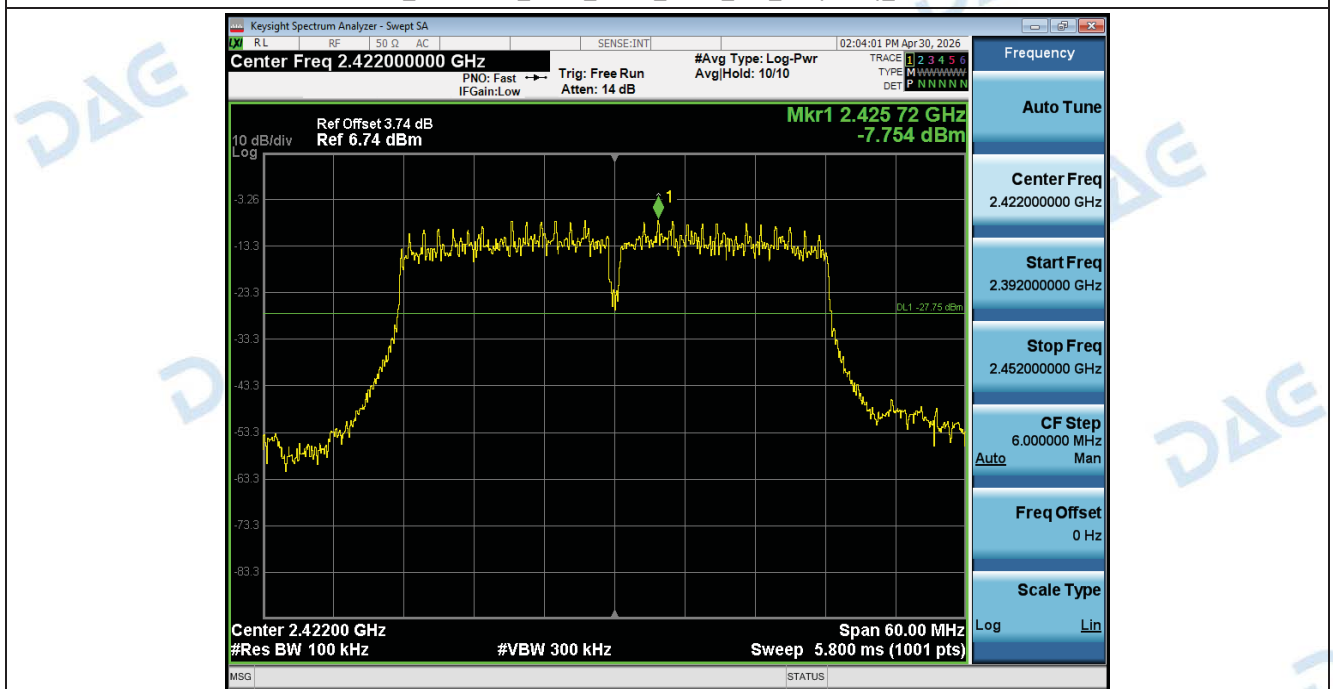
1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT20)\_2462



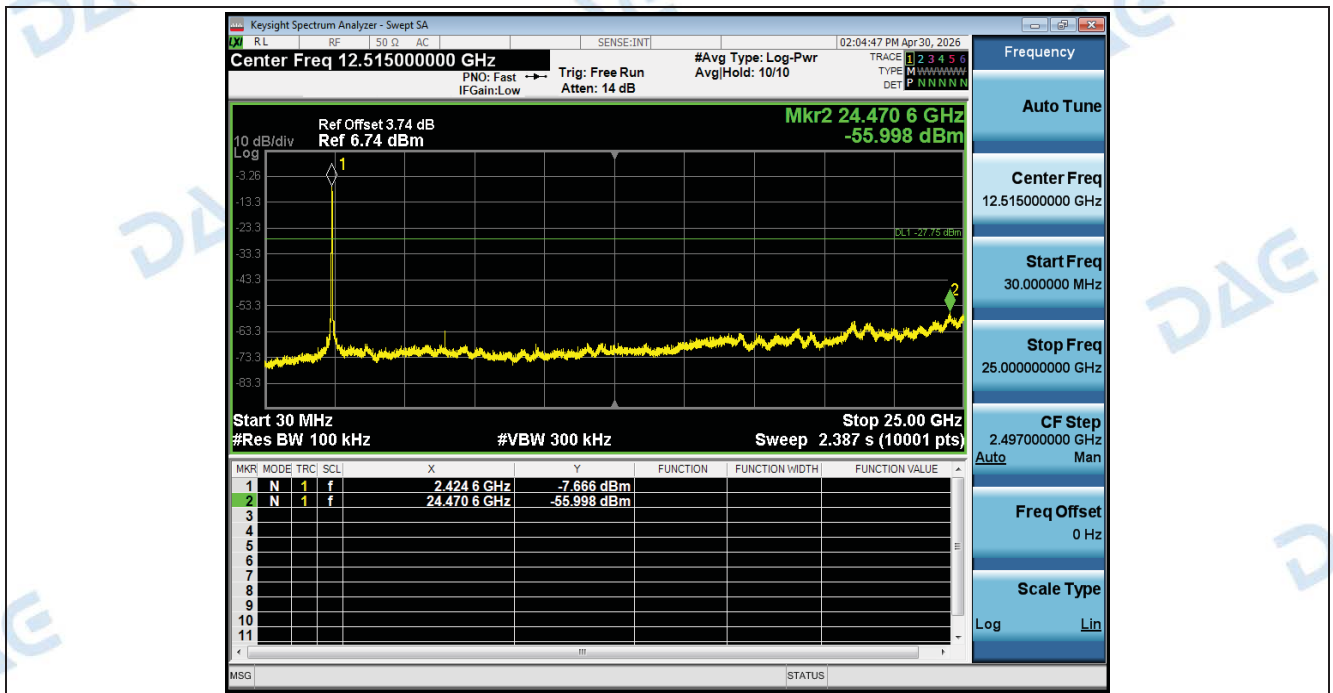
2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT20)\_2462



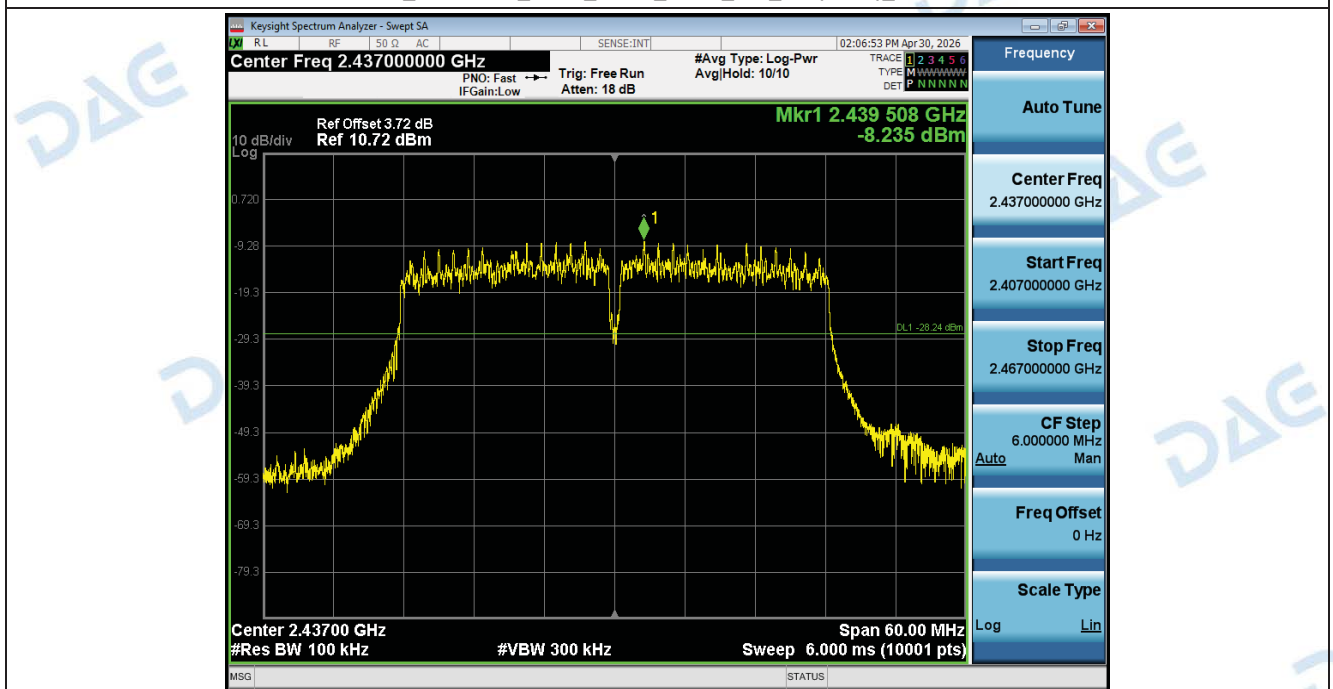
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2422



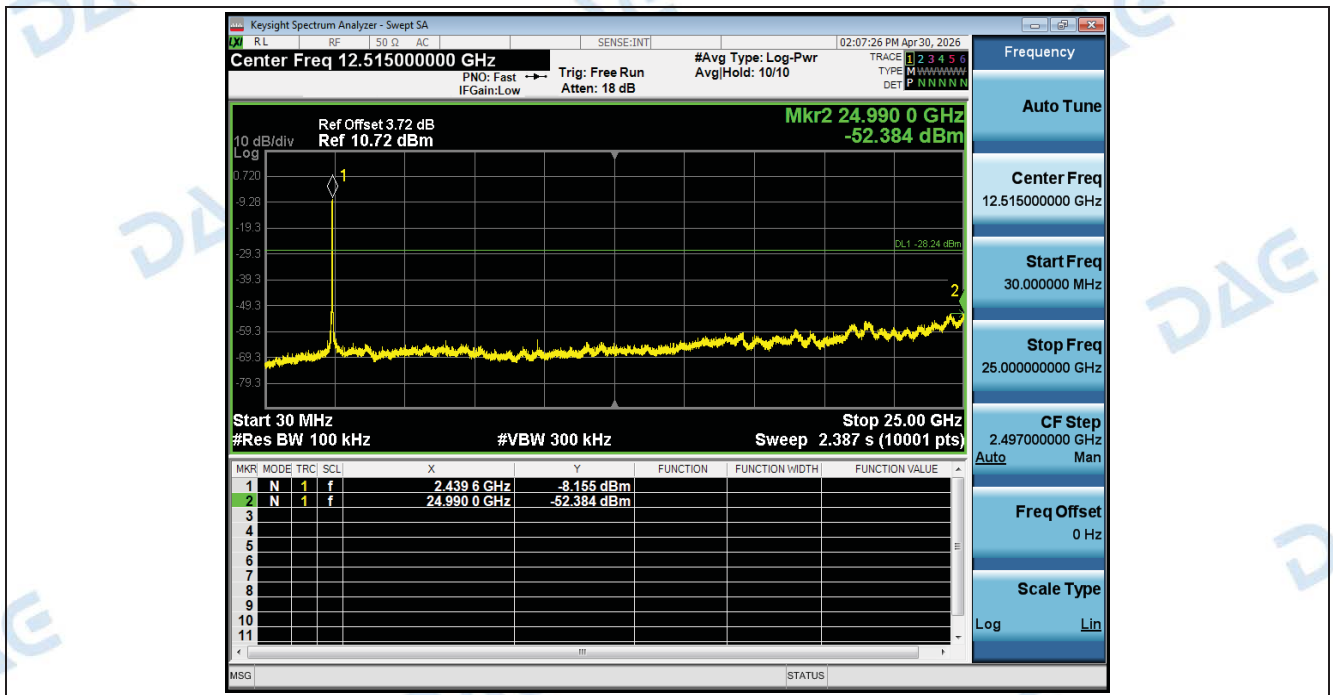
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2422



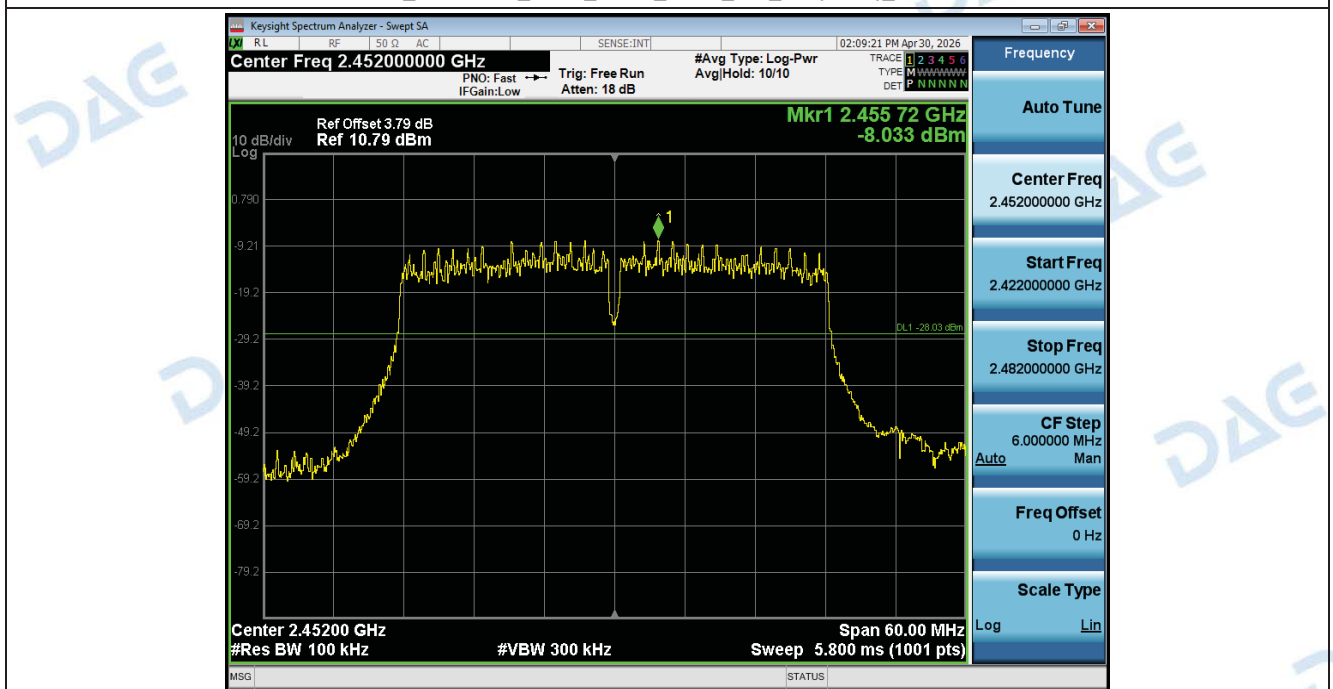
### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2437



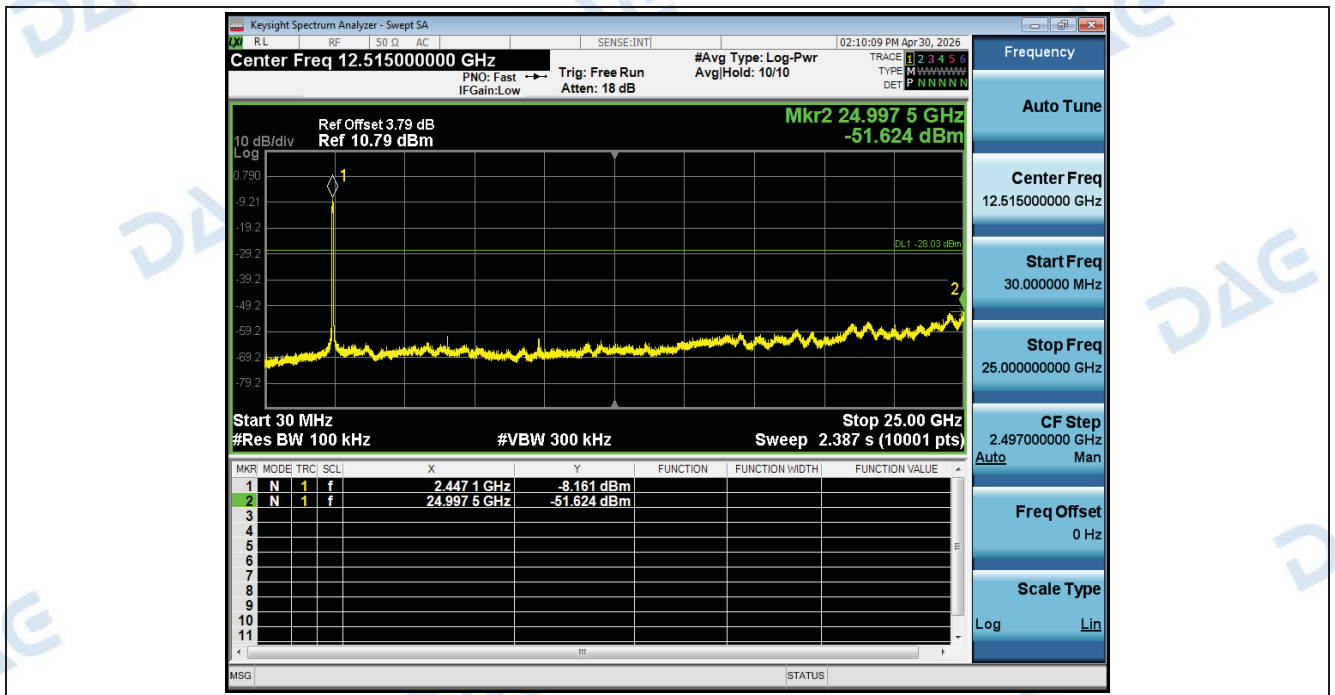
### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2437



### 1\_Reference\_Level\_NVNT\_ANT1\_802\_11n(HT40)\_2452



### 2\_Spurious\_Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2452



\*\*\*\*\* End of Report \*\*\*\*\*