

**Table of Contents**

1. -6dB Bandwidth ..... 2

2. 99% Occupied Bandwidth ..... 4

3. Duty Cycle ..... 6

4. Peak Output Power .....8

5. Power Spectral Density .....10

6. Bandedge .....12

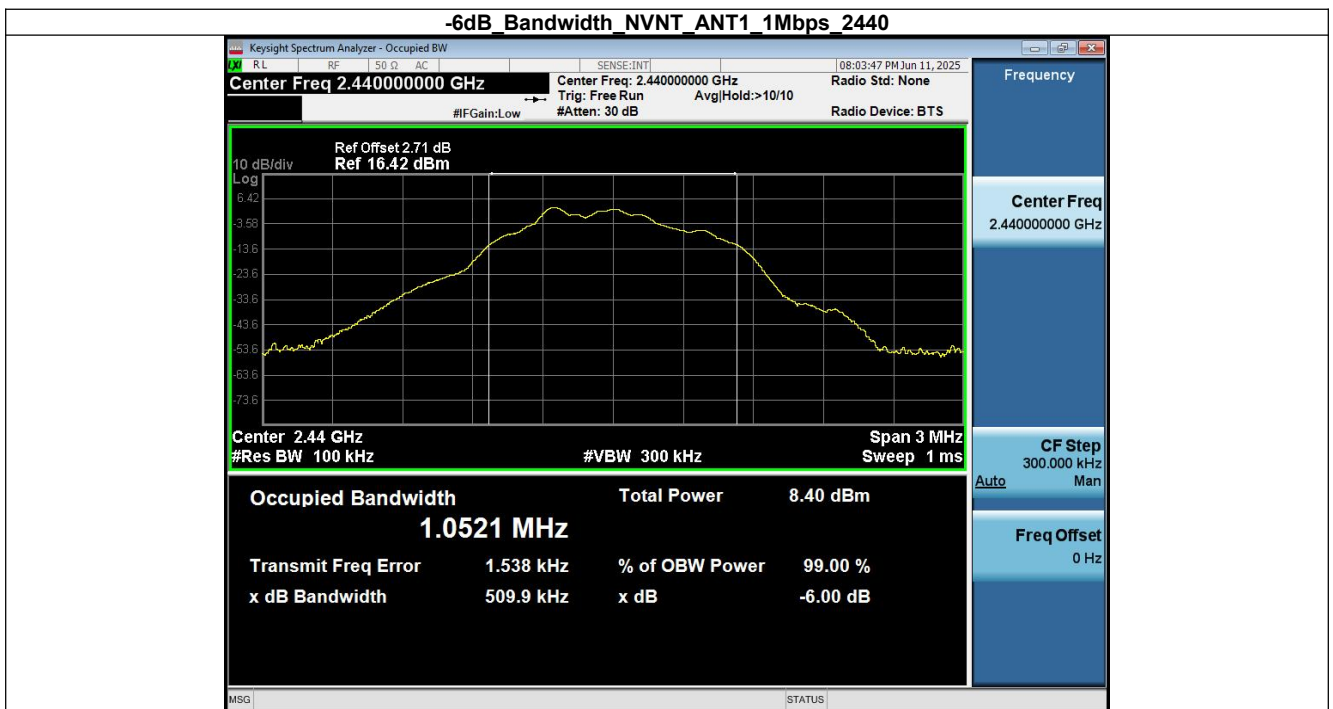
7. Spurious Emission .....14

# FCC ID:2BC96NI-8331

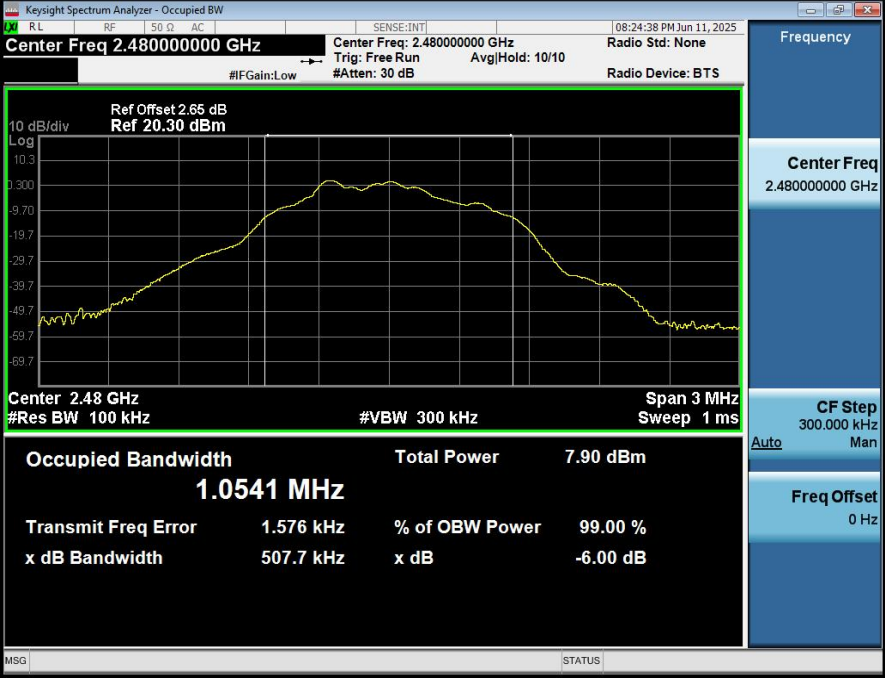
## FCC\_BLE (Part15.247) Test Data

### 1. -6dB Bandwidth

| Condition | Antenna | Rate  | Frequency (MHz) | -6dB BW(kHz) | limit(kHz) | Result |
|-----------|---------|-------|-----------------|--------------|------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 507.25       | 500        | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 509.88       | 500        | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 507.71       | 500        | Pass   |

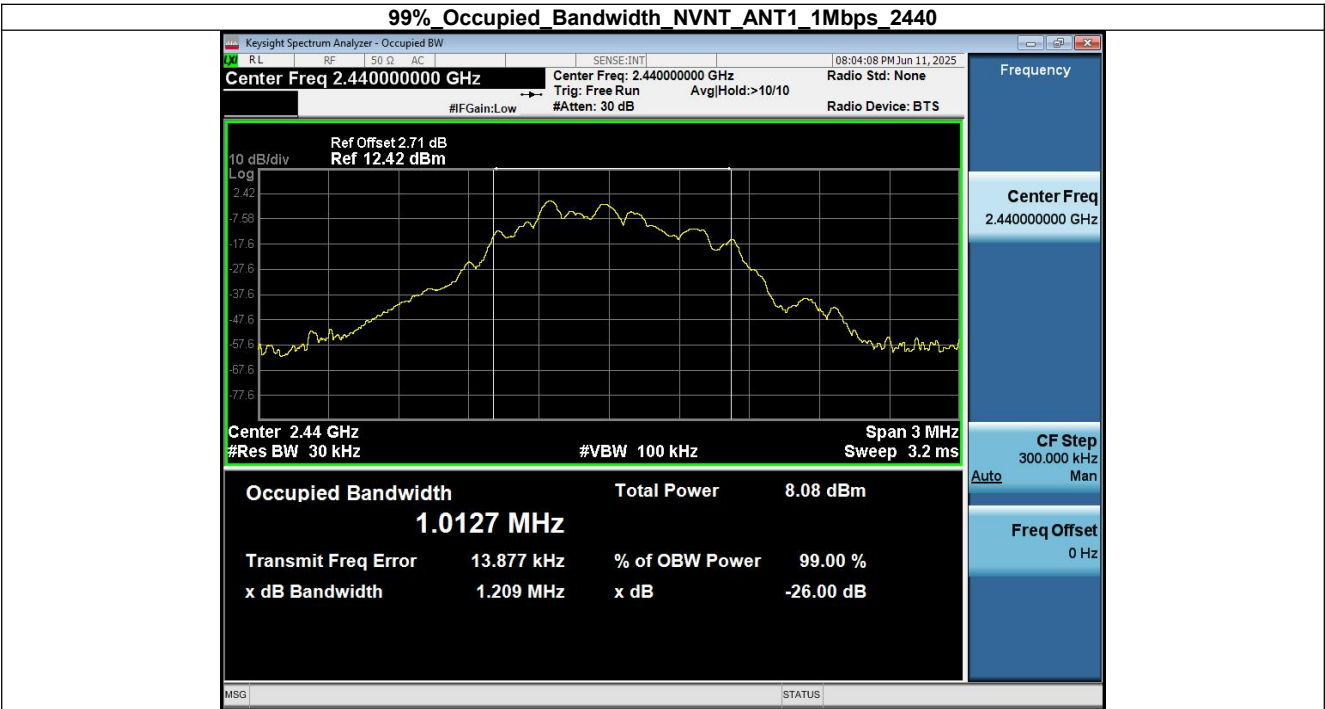


-6dB Bandwidth NVNT ANT1 1Mbps 2480



2. 99% Occupied Bandwidth

| Condition | Antenna | Rate  | Frequency (MHz) | 99% BW (MHz) |
|-----------|---------|-------|-----------------|--------------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 1.012        |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 1.013        |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 1.014        |

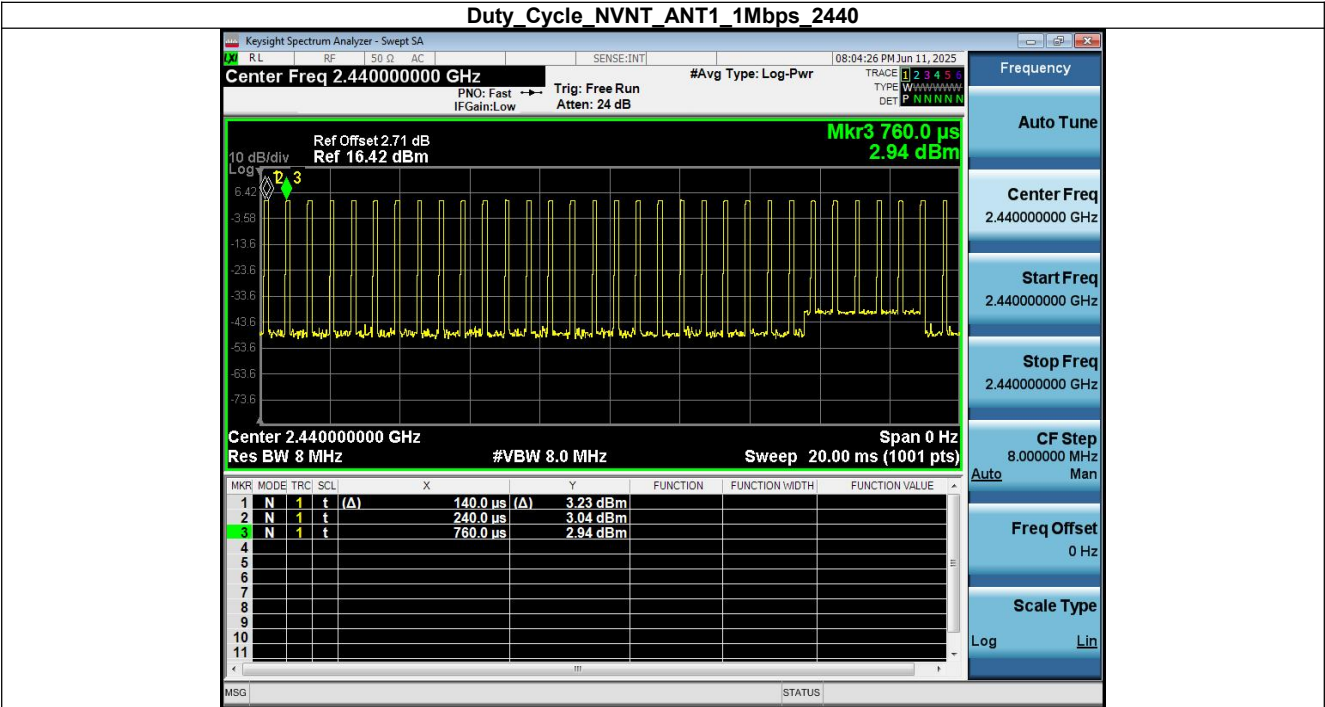
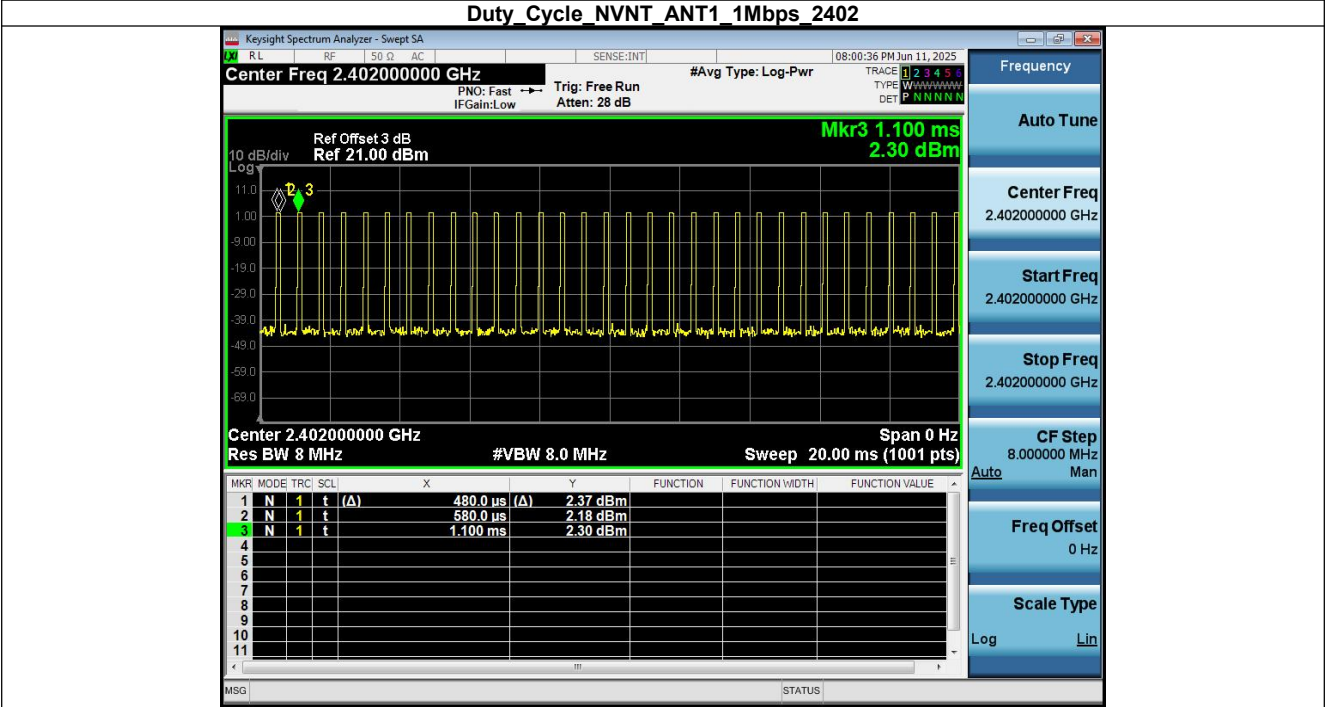


99% Occupied Bandwidth NVNT ANT1 1Mbps 2480

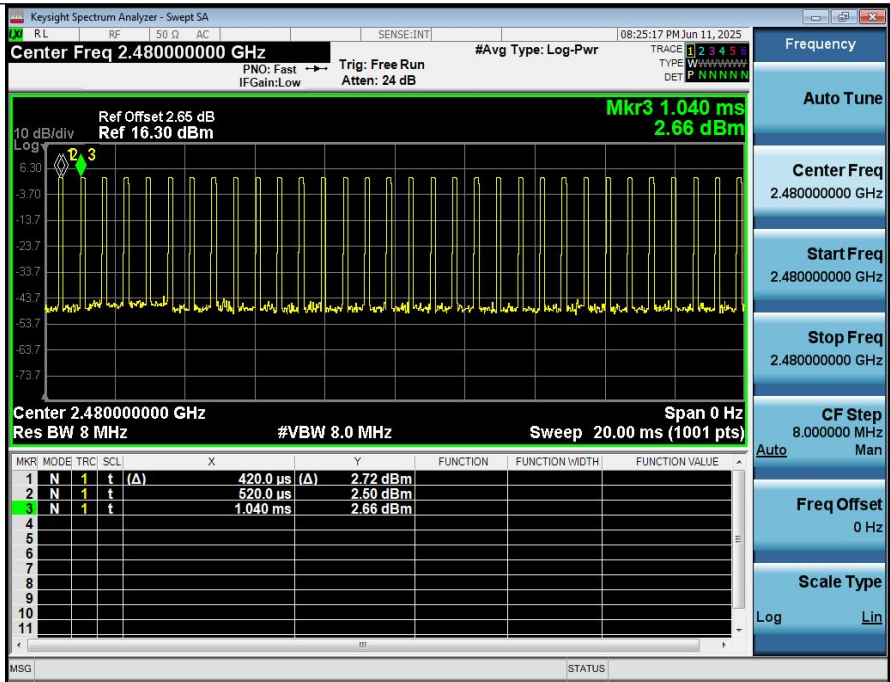


3. Duty Cycle

| Condition | Antenna | Rate  | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|-----------|---------|-------|-----------------|--------------|-------------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 16.13        | 7.92        |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 16.13        | 7.92        |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 16.13        | 7.92        |

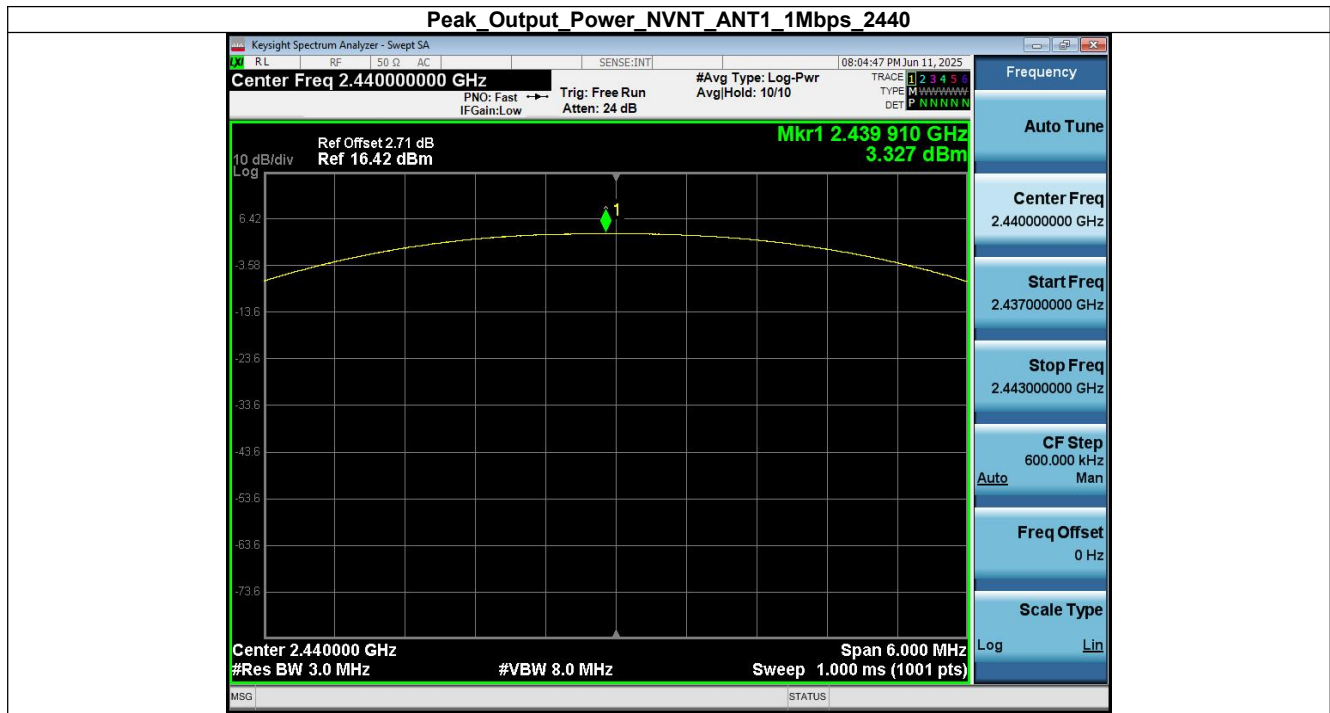
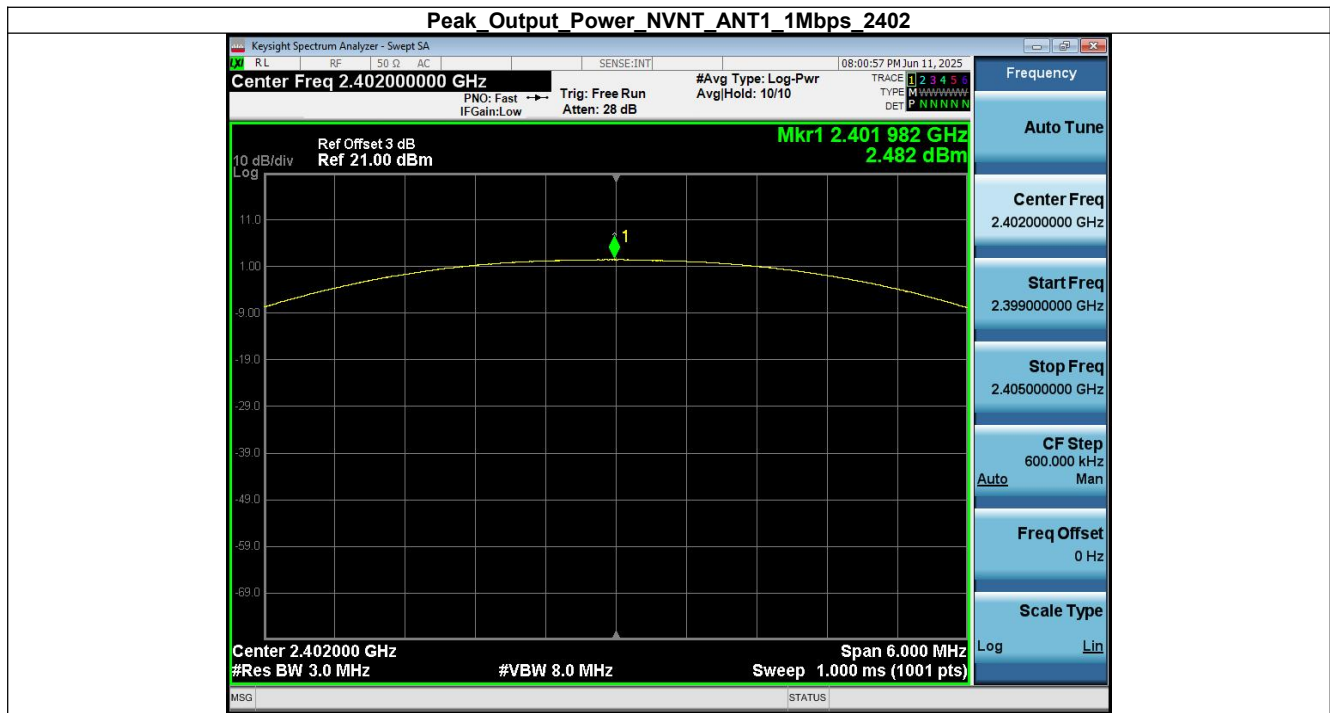


Duty Cycle\_NVNT\_ANT1\_1Mbps\_2480



4. Peak Output Power

| Condition | Antenna | Rate  | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power limit(dBm) | Antenna Gain (dBi) | EIRP(dBm) | EIRP Limit (dBm) | Result |
|-----------|---------|-------|-----------------|---------------------------|---------------------------------|--------------------|-----------|------------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 2.48                      | 30                              | 2.499              | 4.979     | 36               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 3.33                      | 30                              | 2.499              | 5.829     | 36               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 2.83                      | 30                              | 2.499              | 5.329     | 36               | Pass   |



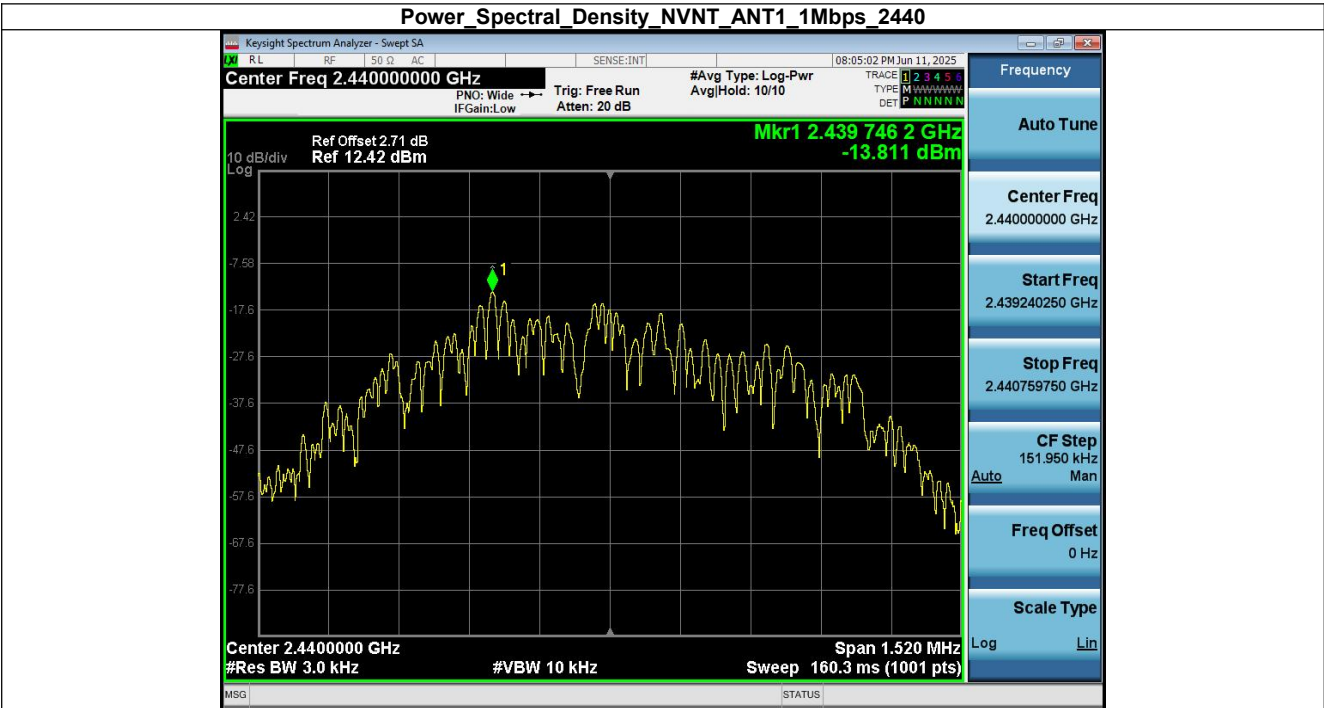
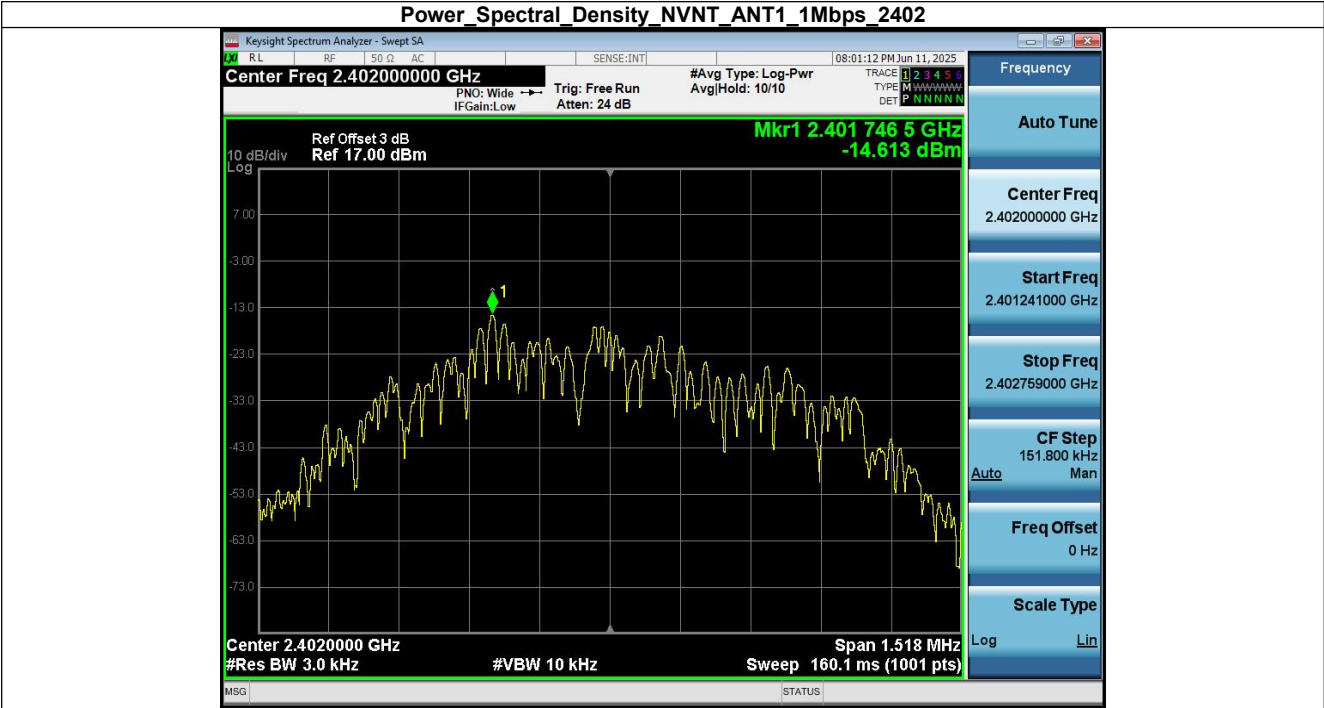
Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2480





5. Power Spectral Density

| Condition | Antenna | Rate  | Frequency (MHz) | Power Spectral Density(dBm/3kHz) | Limit(dBm/3kHz) | Result |
|-----------|---------|-------|-----------------|----------------------------------|-----------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | -14.61                           | 8               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | -13.81                           | 8               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | -14.30                           | 8               | Pass   |

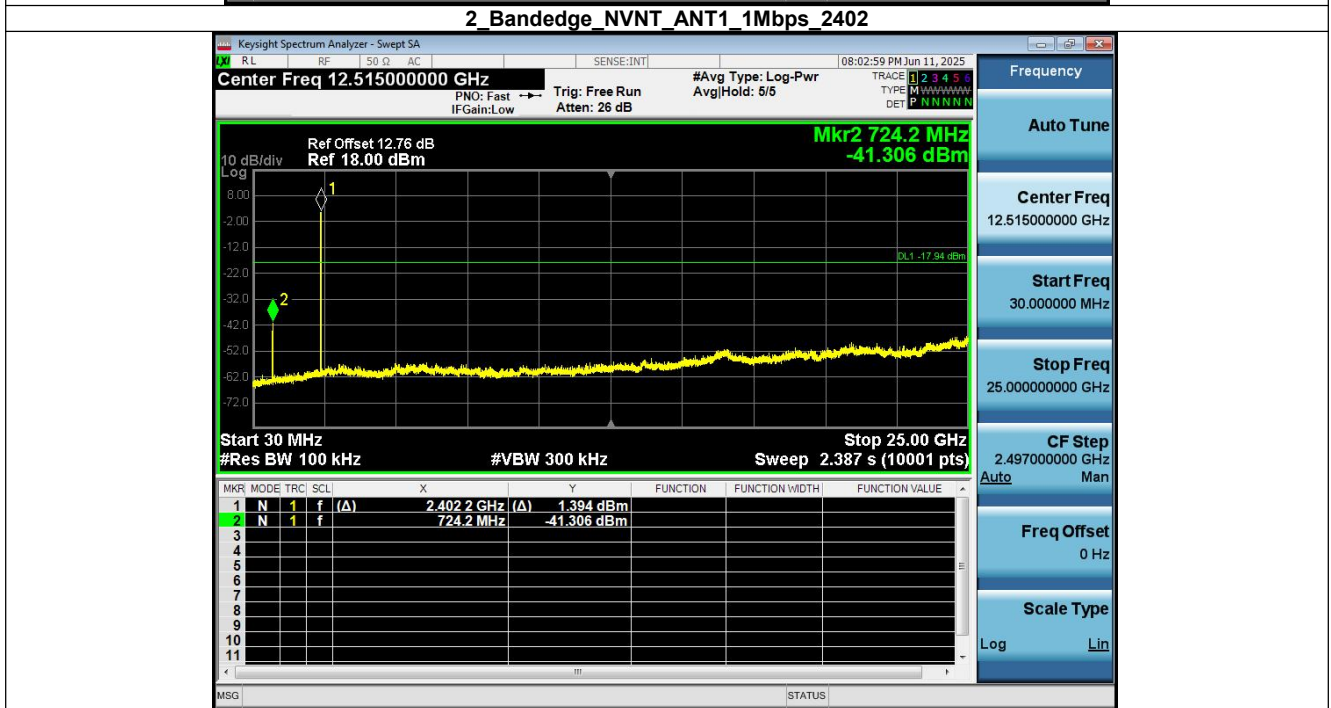
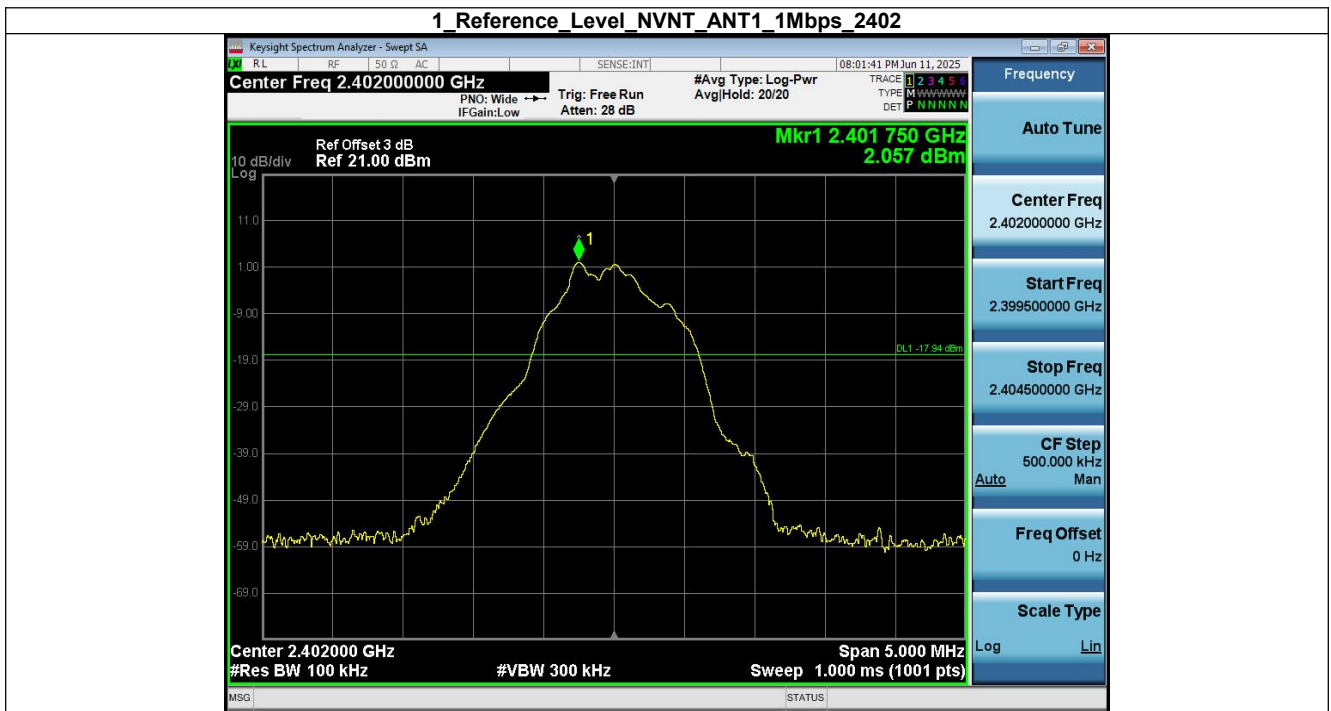


Power\_Spectral\_Density\_NVNT\_ANT1\_1Mbps\_2480



## 6. Bandedge

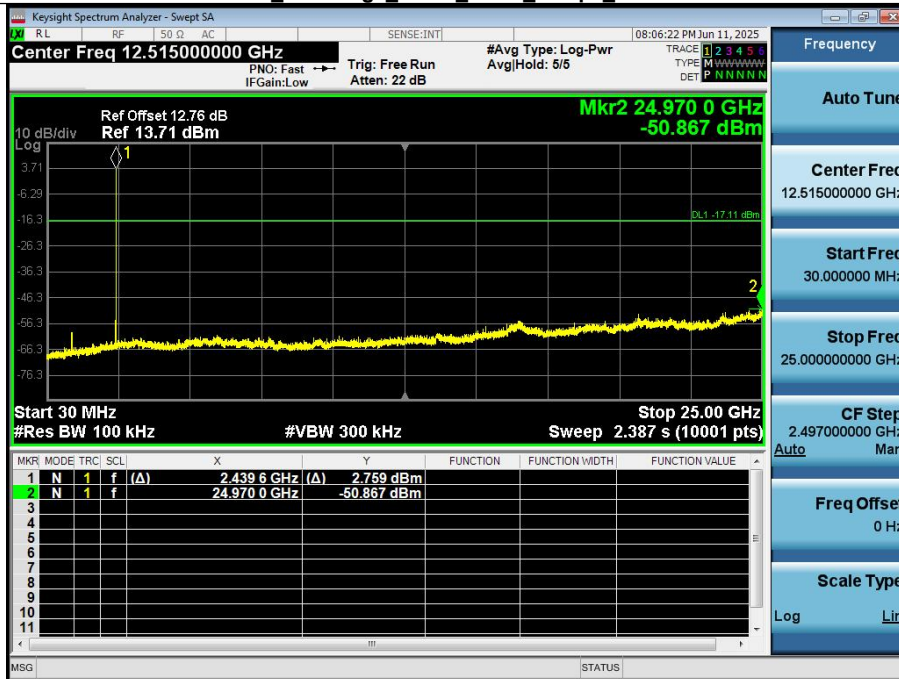
| Condition | Antenna | Modulation | TX_Frequency<br>(MHz) | Max.<br>Mark_freq(MHz) | Ref_level(dBm) | Spurious<br>level(dBm) | limit(dBm) | Result |
|-----------|---------|------------|-----------------------|------------------------|----------------|------------------------|------------|--------|
| NVNT      | ANT1    | 1Mbps      | 2402.00               | 2399.965               | 2.057          | -57.248                | -17.943    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2480.00               | 2484.650               | 2.454          | -57.238                | -17.546    | Pass   |



| 1 | Reference | Level | NVNT | ANT1 | 1Mbps | 2480 |
|---|-----------|-------|------|------|-------|------|
|---|-----------|-------|------|------|-------|------|



## 2\_Bandedge\_NVNT\_ANT1\_1Mbps\_2480



7. Spurious Emission

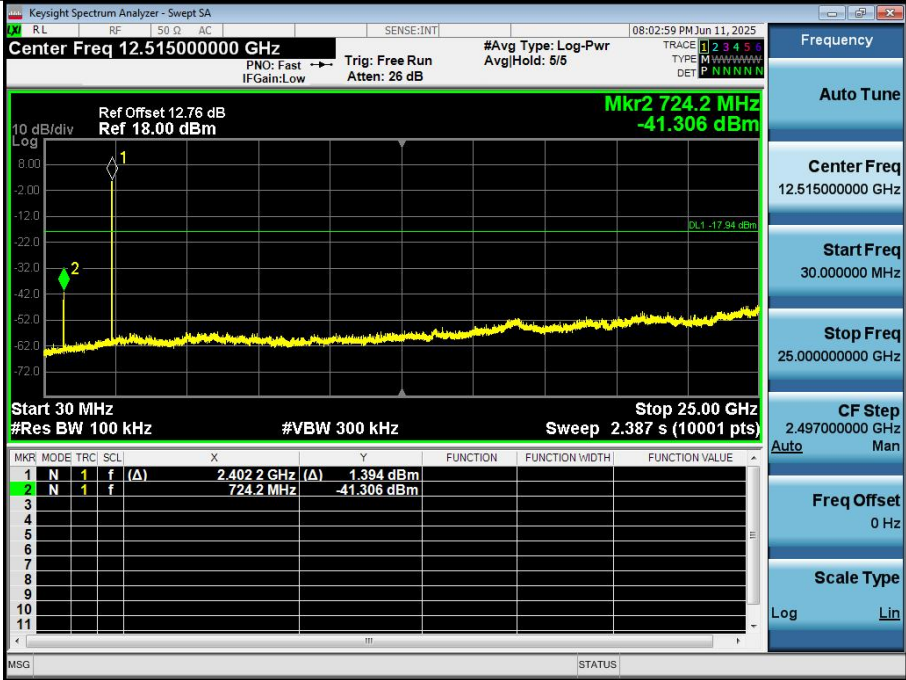
| Condition | Antenna | Modulation | TX_Frequency (MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|------------|--------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 1Mbps      | 2402.00            | 2.057          | -41.306             | -17.943    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2440.00            | 2.889          | -50.867             | -17.111    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2480.00            | 2.454          | -46.921             | -17.546    | Pass   |

Ref Offest = Cable Loss

1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2402

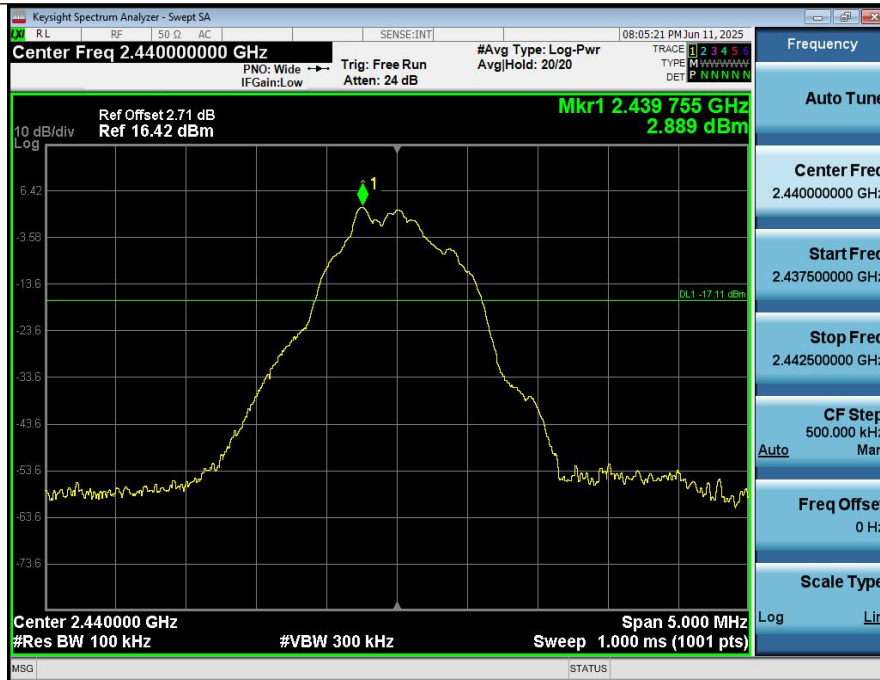


2 Spurious Emission\_NVNT\_ANT1\_1Mbps\_2402

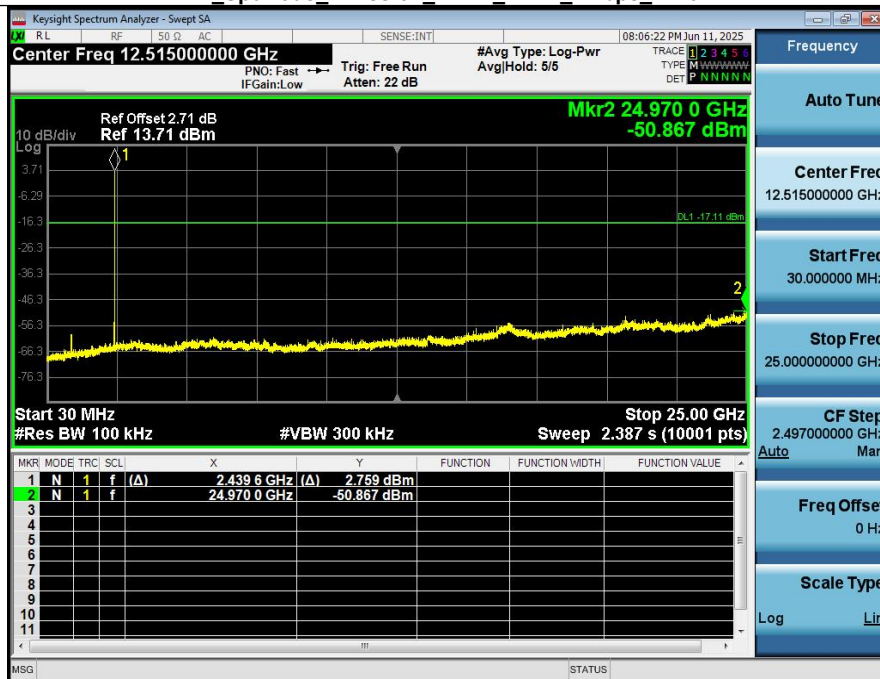


1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2440





## 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2440



## 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480



## 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2480

