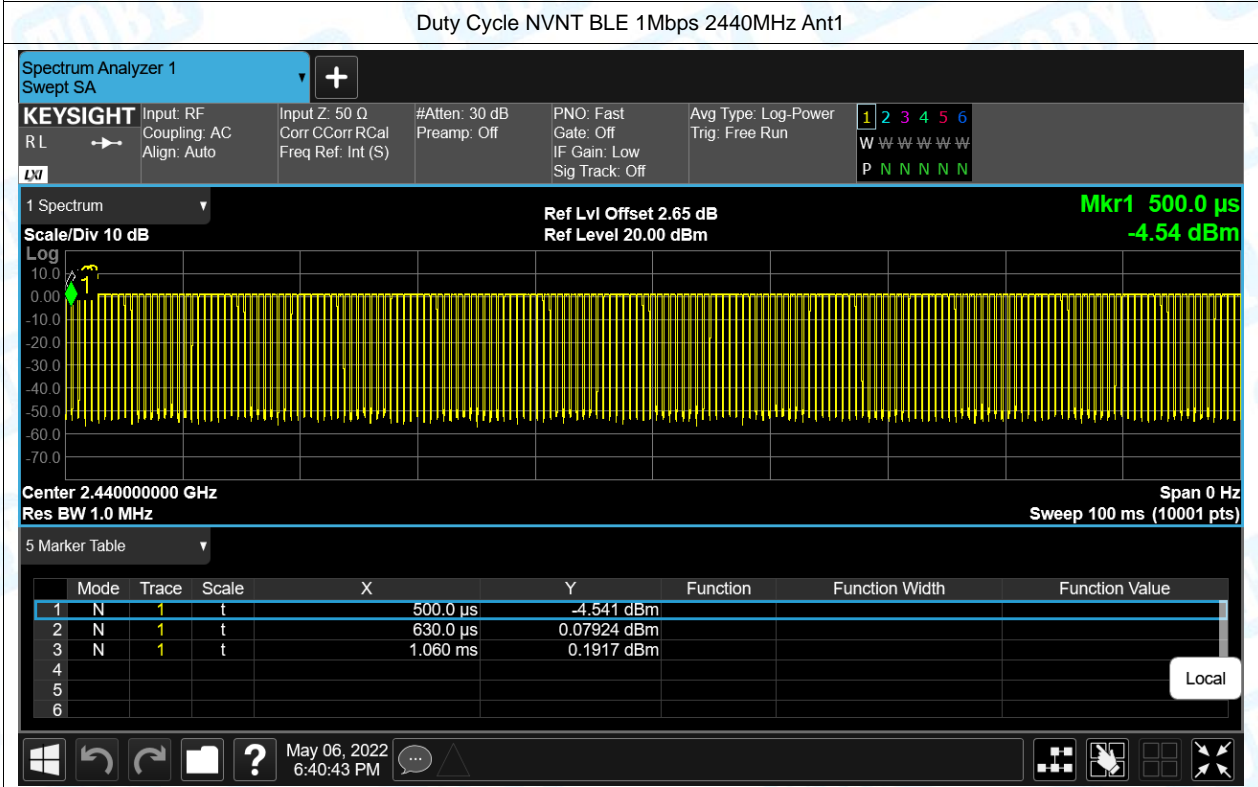
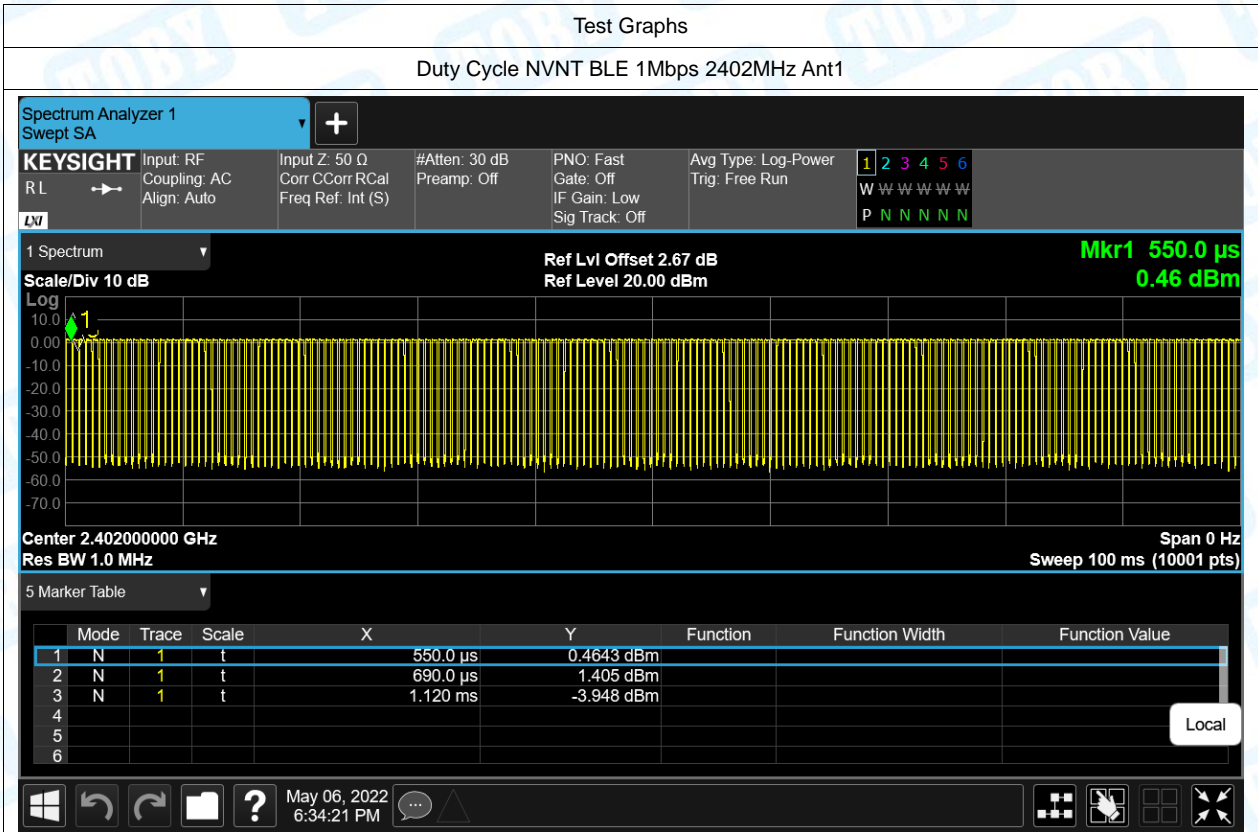


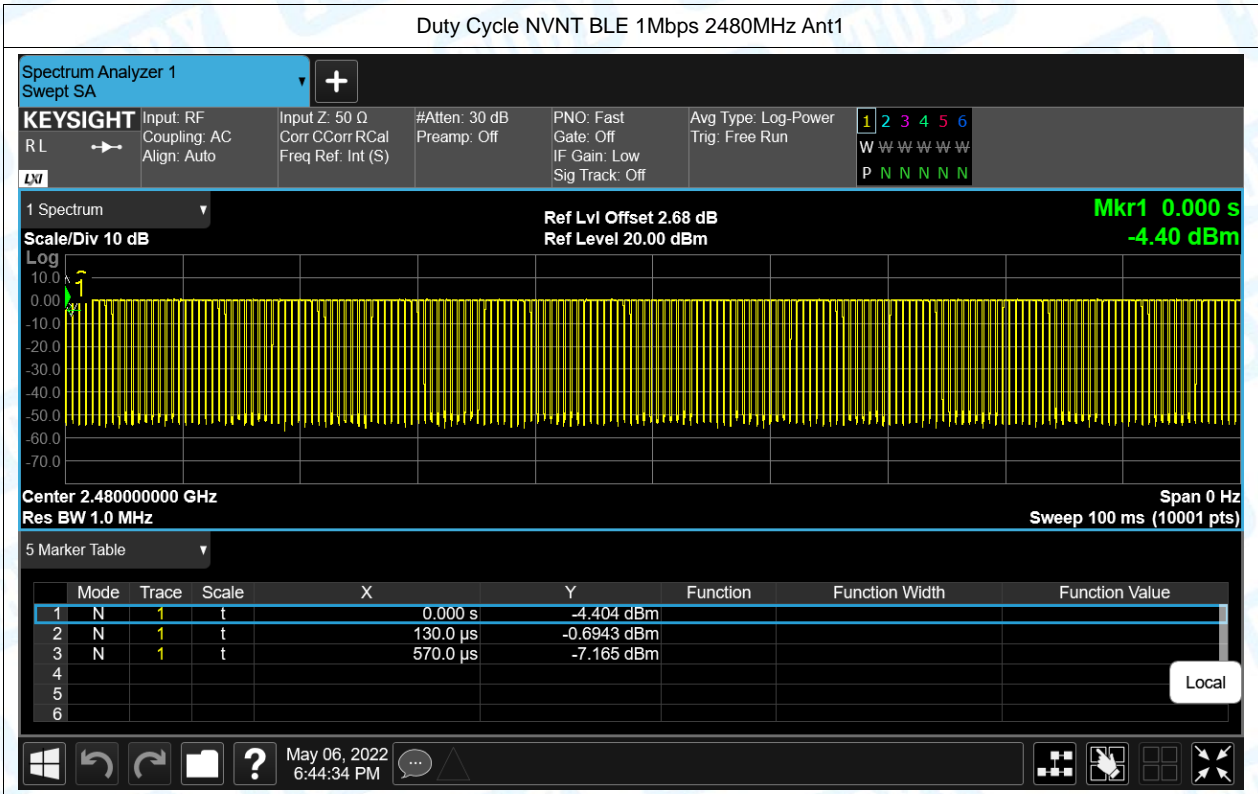
RF Test Data for Bluetooth LE (Conducted Measurements)

| General Description of EUT | |
|--|---|
| Product Name: | Side Handle with Wireless Control for Cellphone |
| Test Model: | SG-20 |
| Sample ID: | 202204-0312-13-23 |
| Environmental Conditions | |
| Temperature: | 24°C |
| Relative Humidity: | 50% |
| Test Voltage: | DC3.7 V |
| Test Engineer: | Liufeng |
| Note: For a more detailed features description, please refer to the report TBR-C-202204-0312-18. | |

Duty Cycle

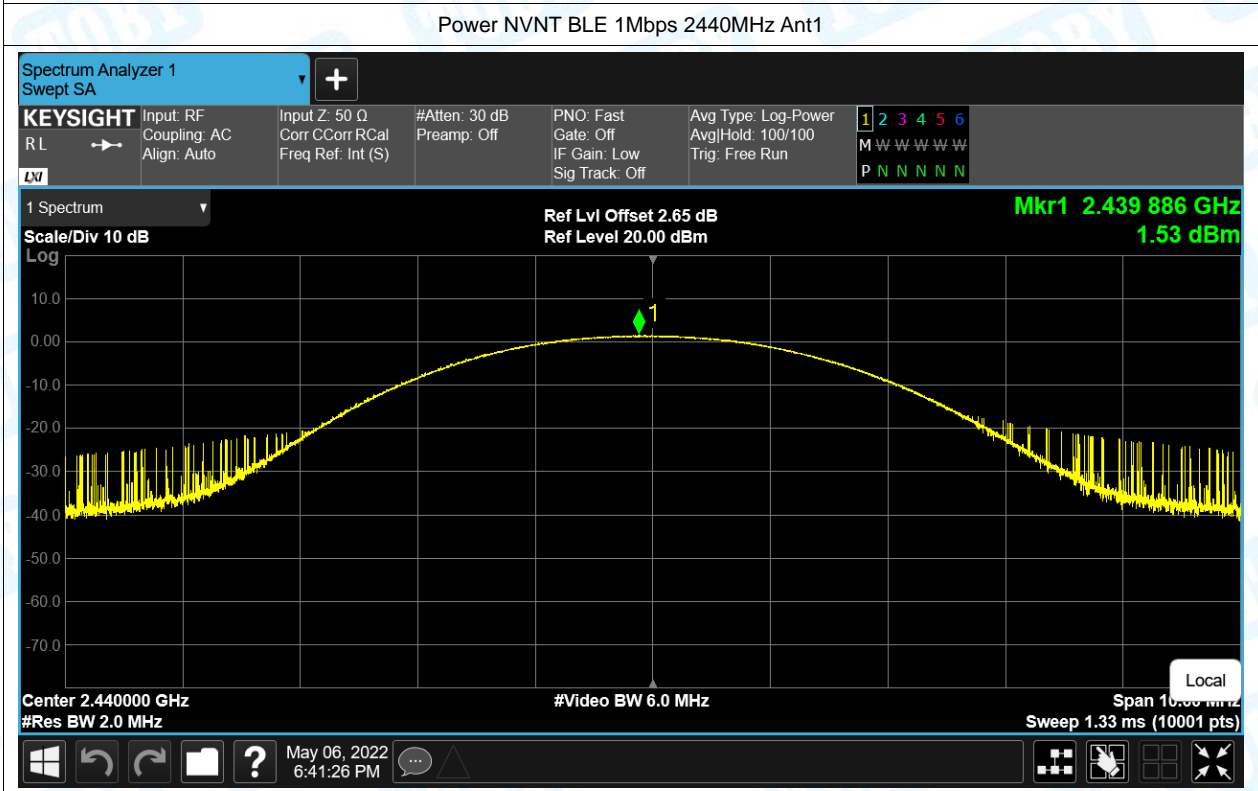
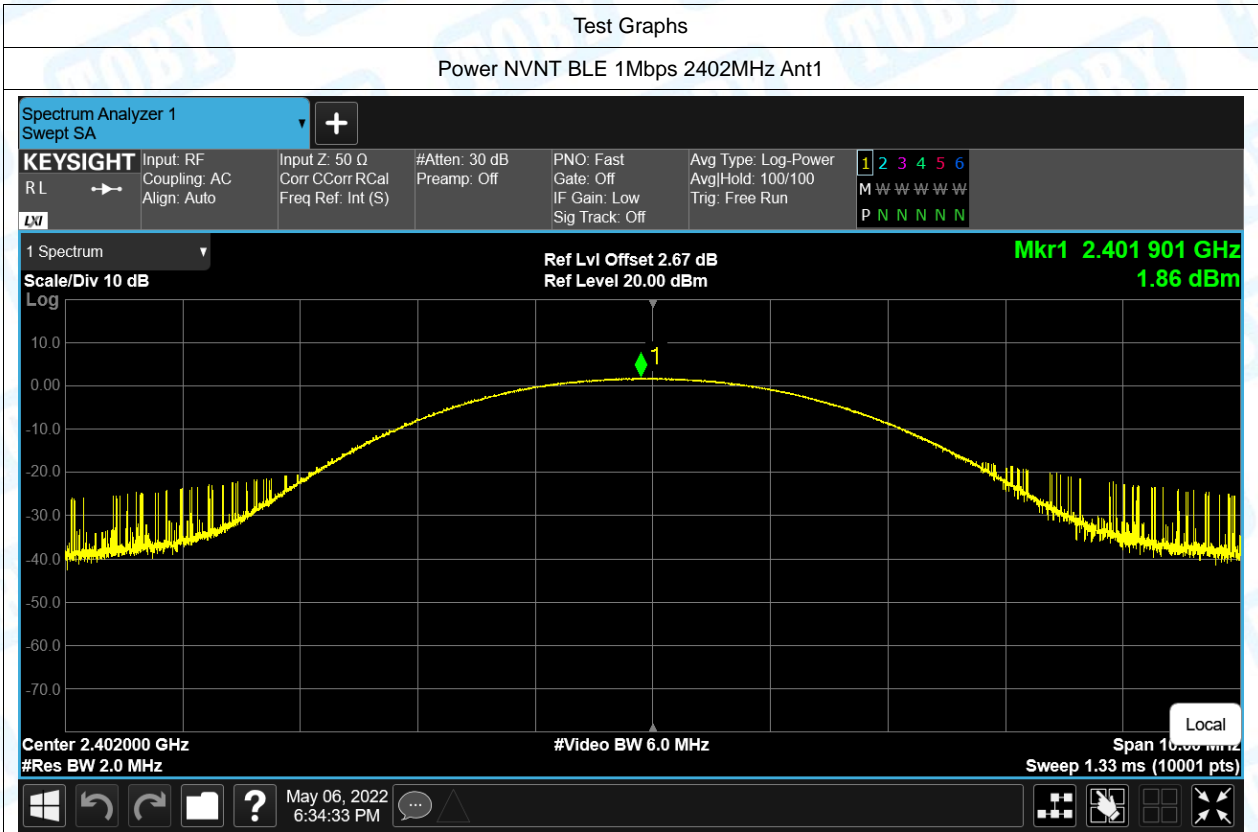
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|-----------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | 78.6 | 1.05 | 2.33 |
| NVNT | BLE 1Mbps | 2440 | Ant1 | 78.65 | 1.04 | 2.33 |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 78.6 | 1.05 | 2.27 |

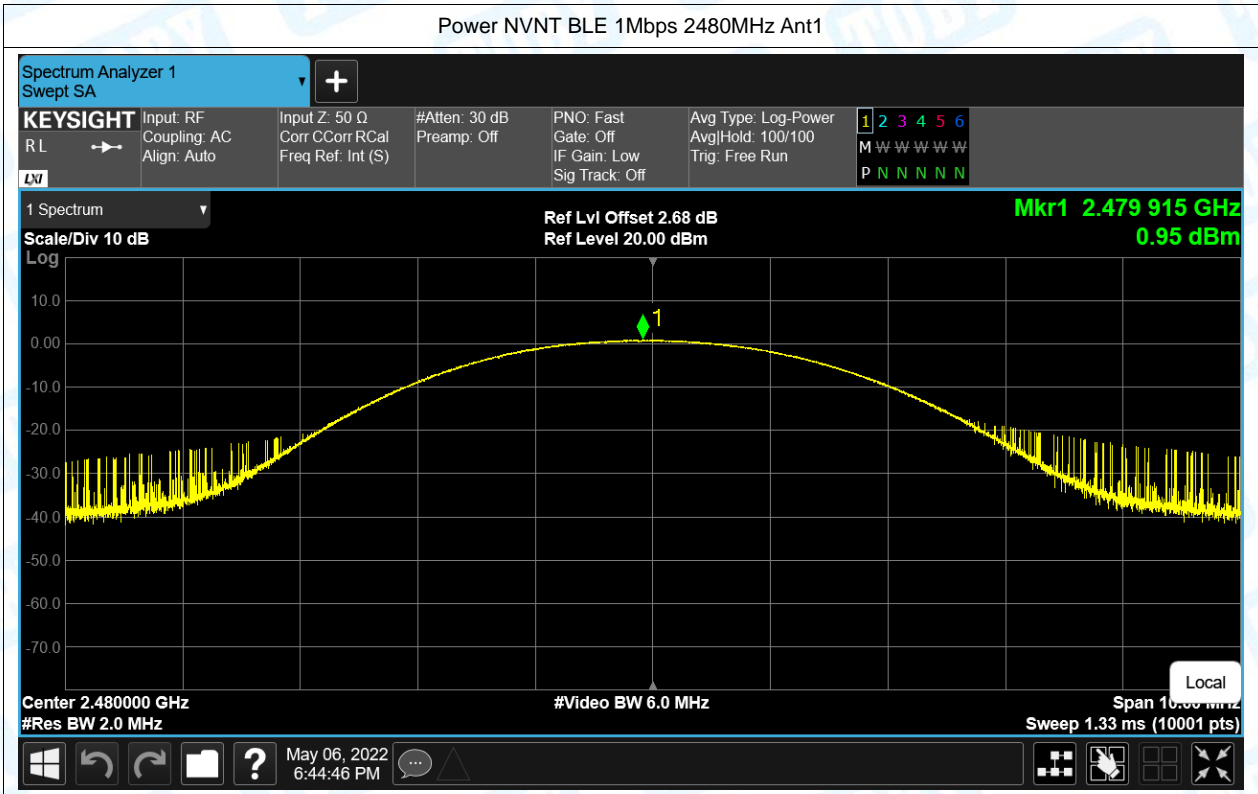




Maximum Conducted Output Power

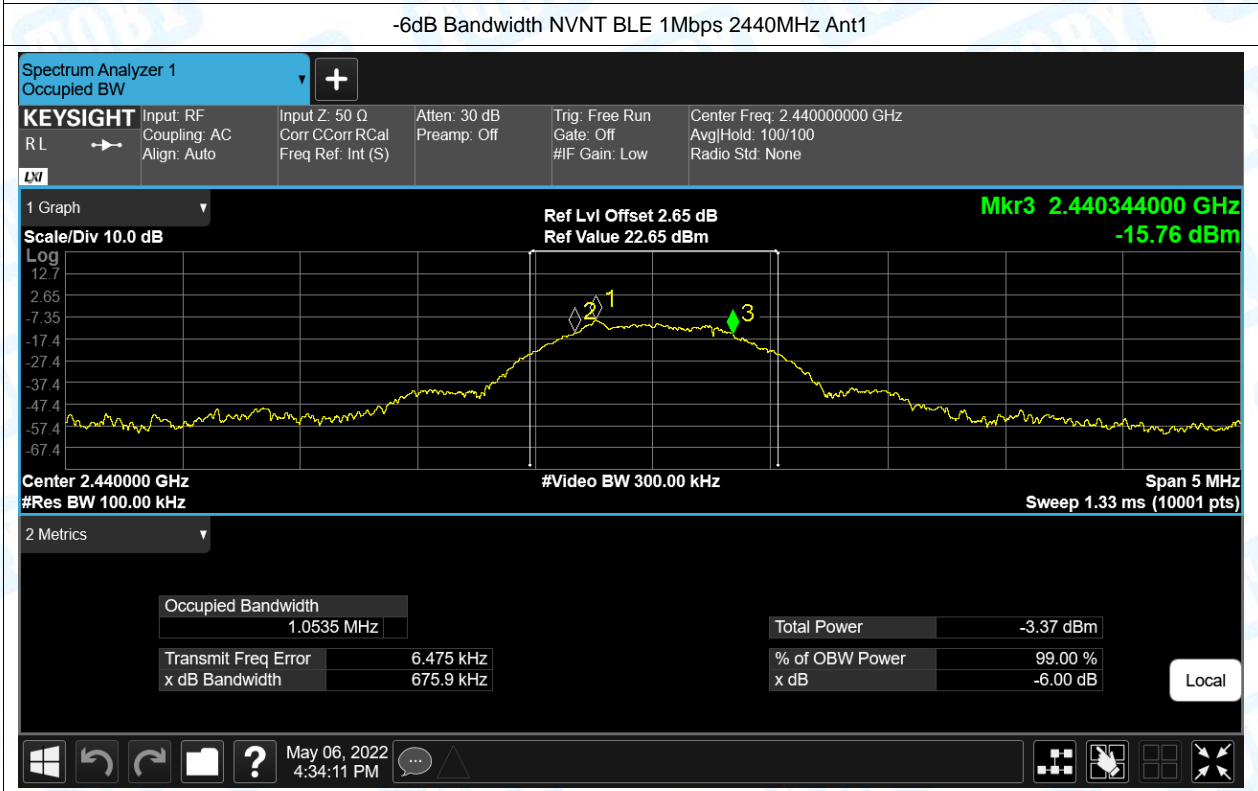
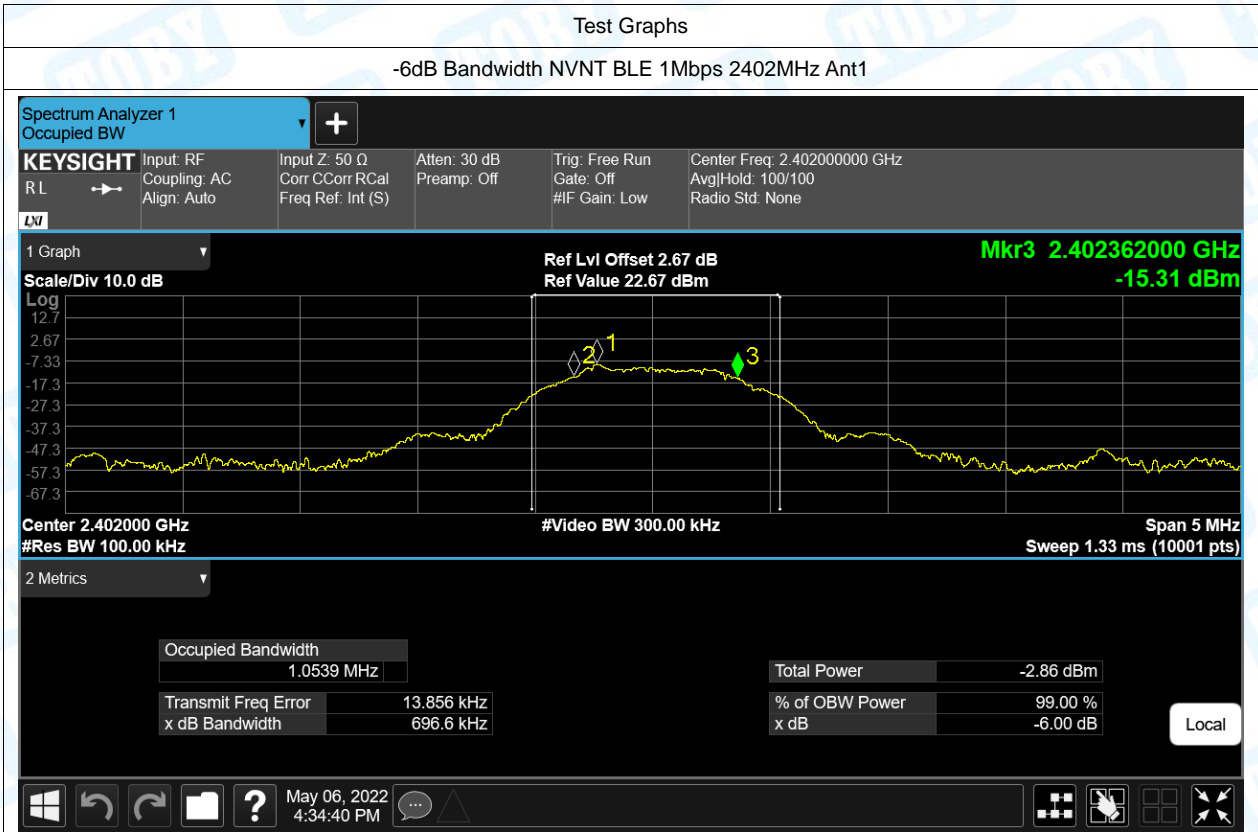
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | 1.858 | 30 | Pass |
| NVNT | BLE 1Mbps | 2440 | Ant1 | 1.527 | 30 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 0.948 | 30 | Pass |

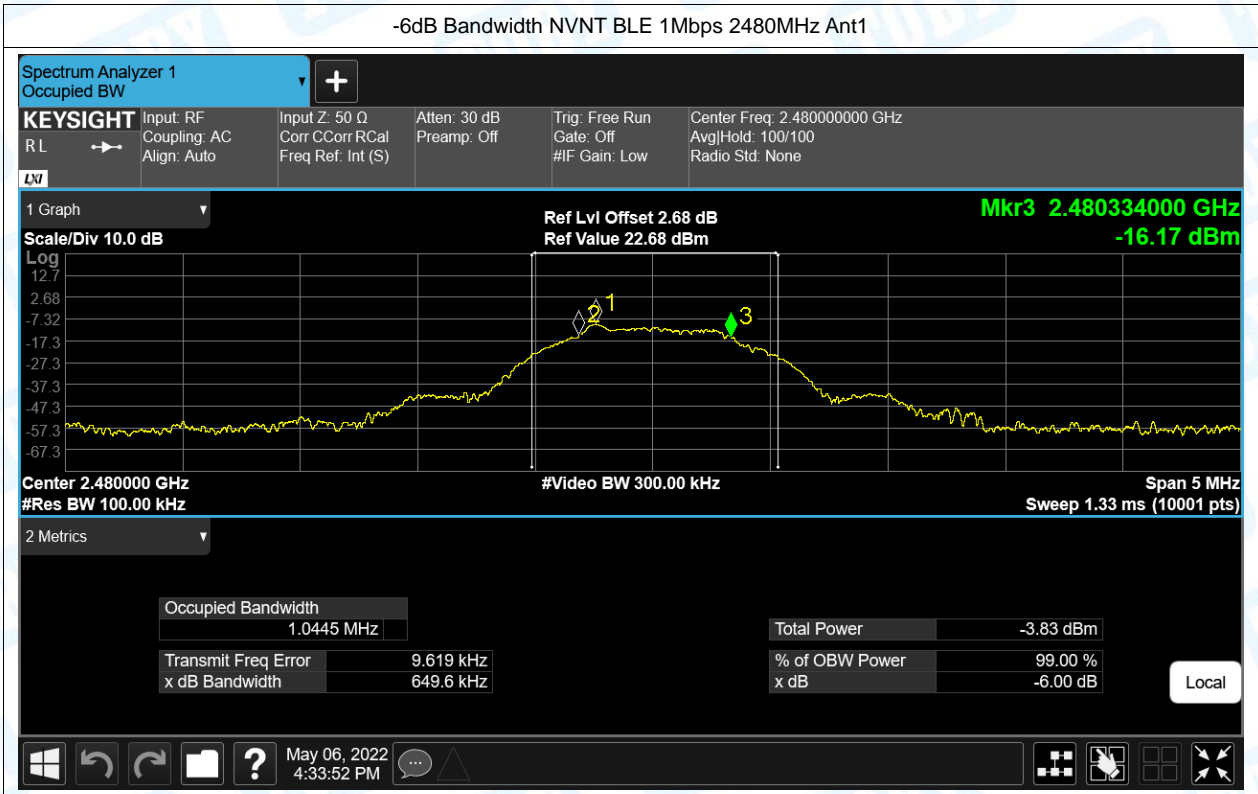




-6dB Bandwidth

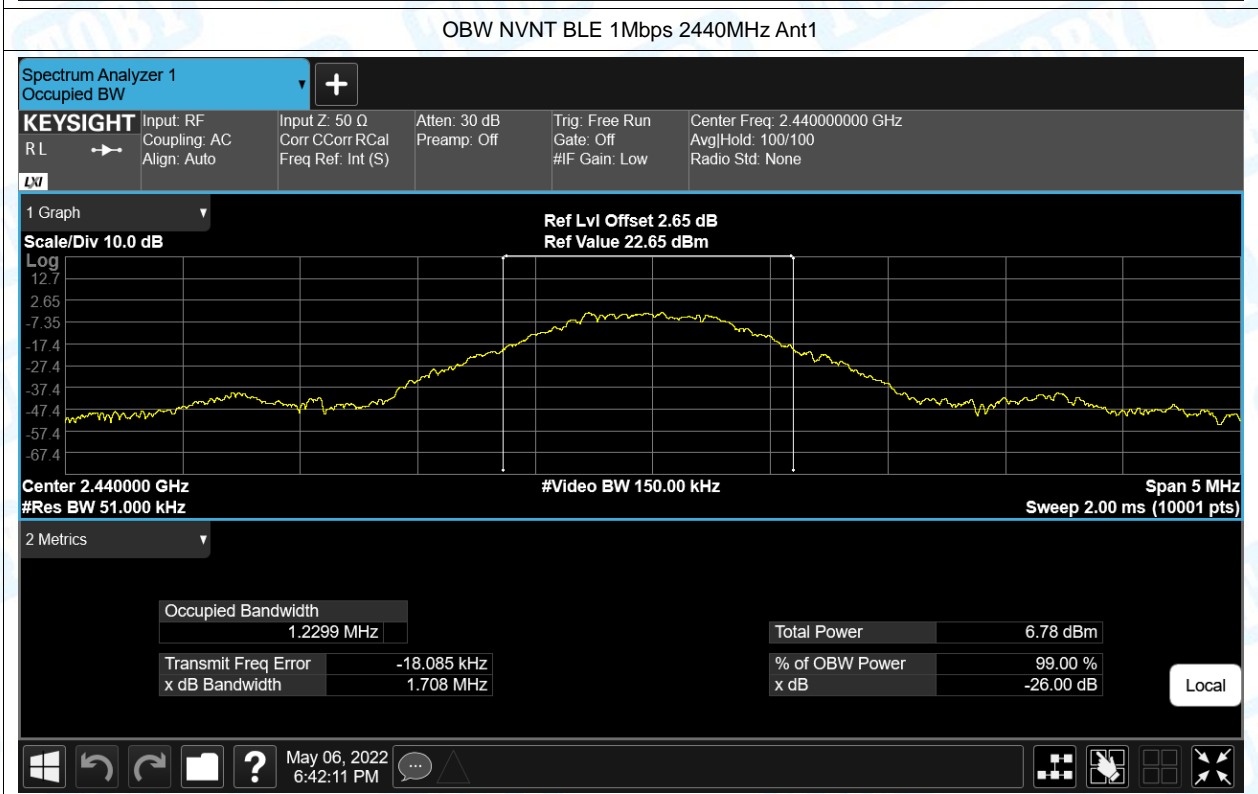
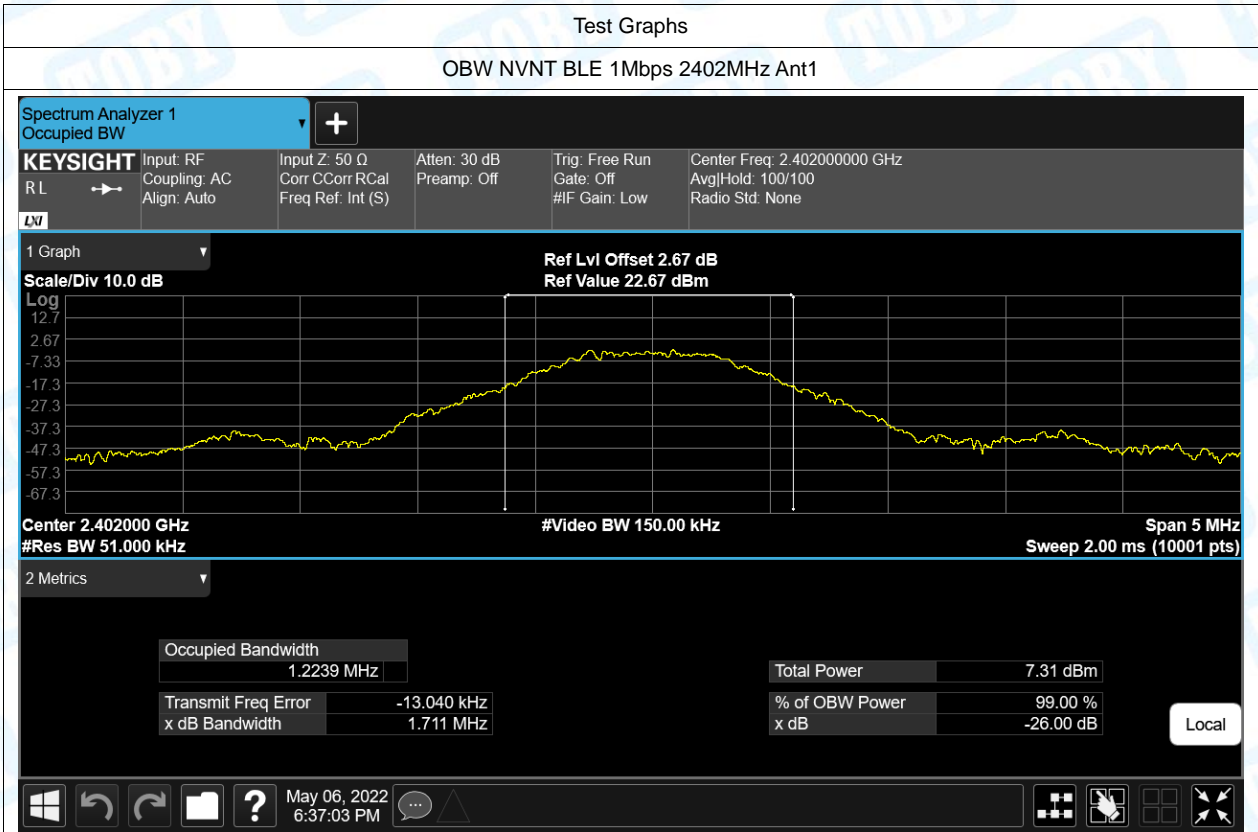
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | 0.7 | 0.5 | Pass |
| NVNT | BLE 1Mbps | 2440 | Ant1 | 0.68 | 0.5 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 0.65 | 0.5 | Pass |

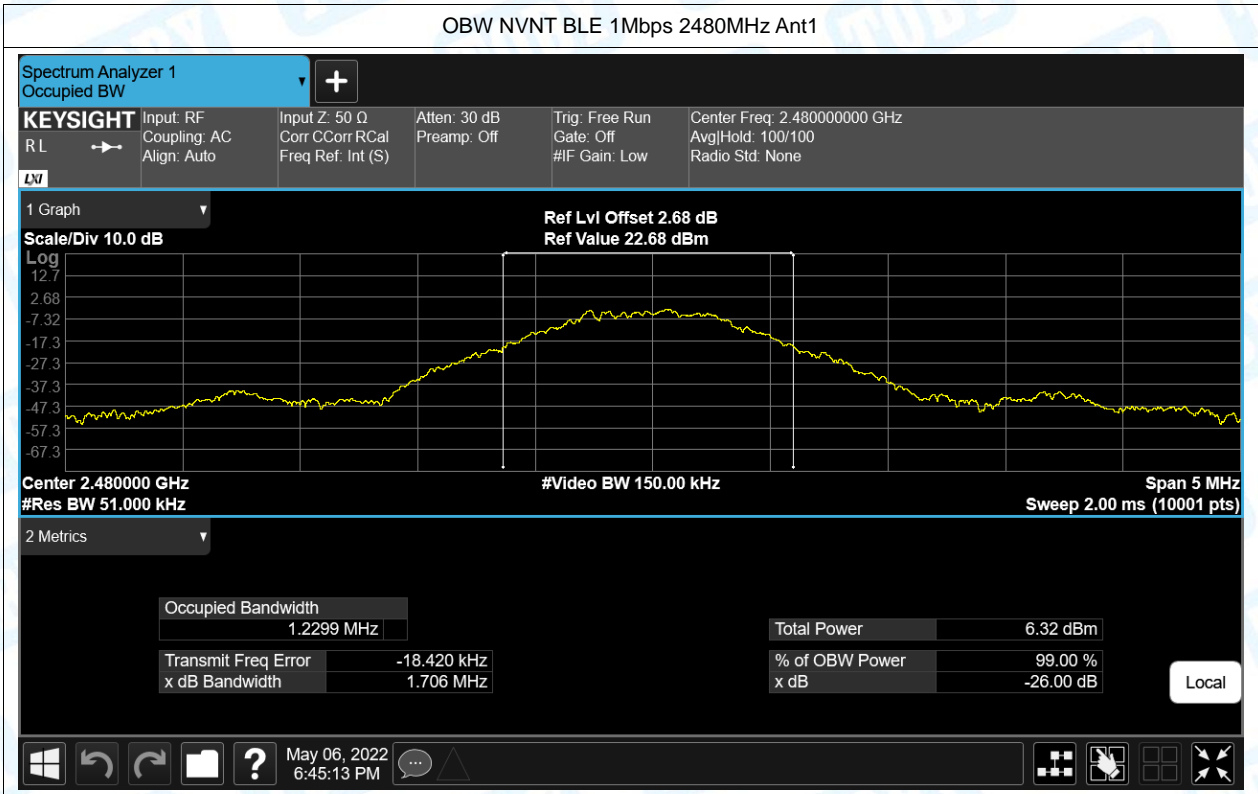




Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|-----------|-----------------|---------|---------------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | 1.224 |
| NVNT | BLE 1Mbps | 2440 | Ant1 | 1.23 |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 1.23 |



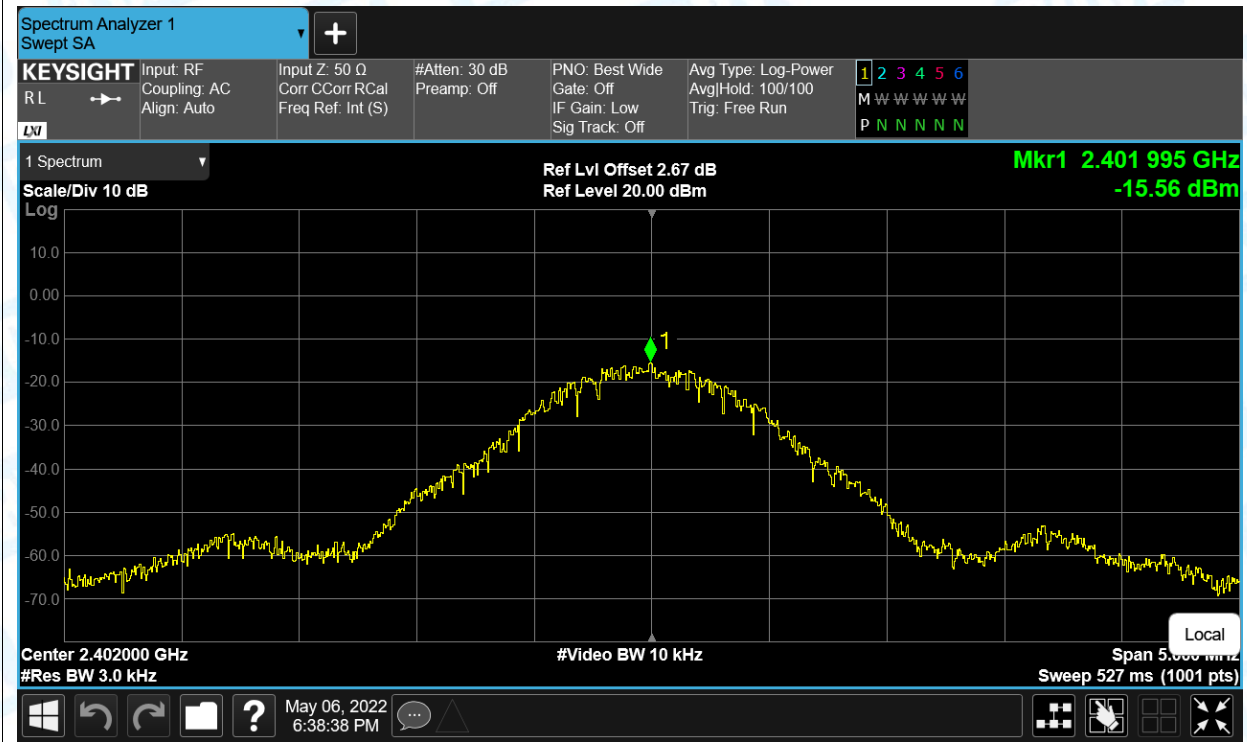


Maximum Power Spectral Density Level

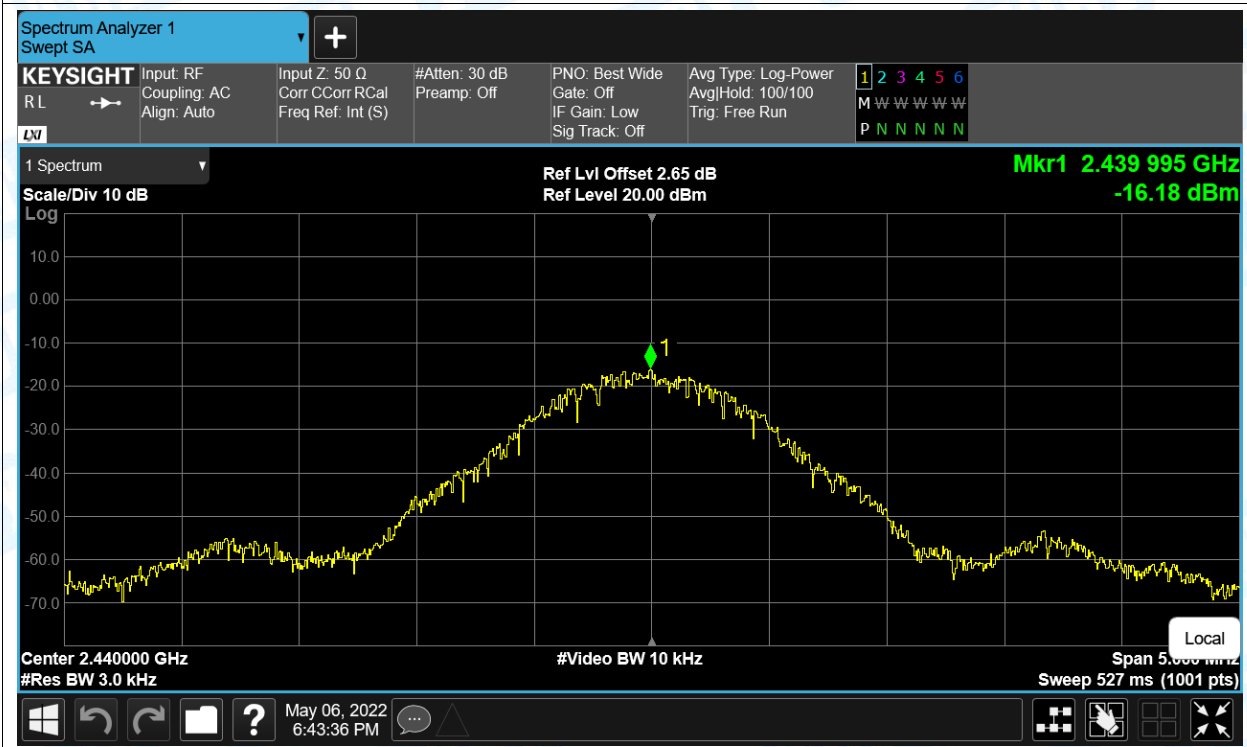
| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) /3KHz | Limit (dBm) 3KHz | Verdict |
|-----------|-----------|-----------------|---------|---------------------|------------------|---------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | -15.565 | 8 | Pass |
| NVNT | BLE 1Mbps | 2440 | Ant1 | -16.179 | 8 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | -16.816 | 8 | Pass |

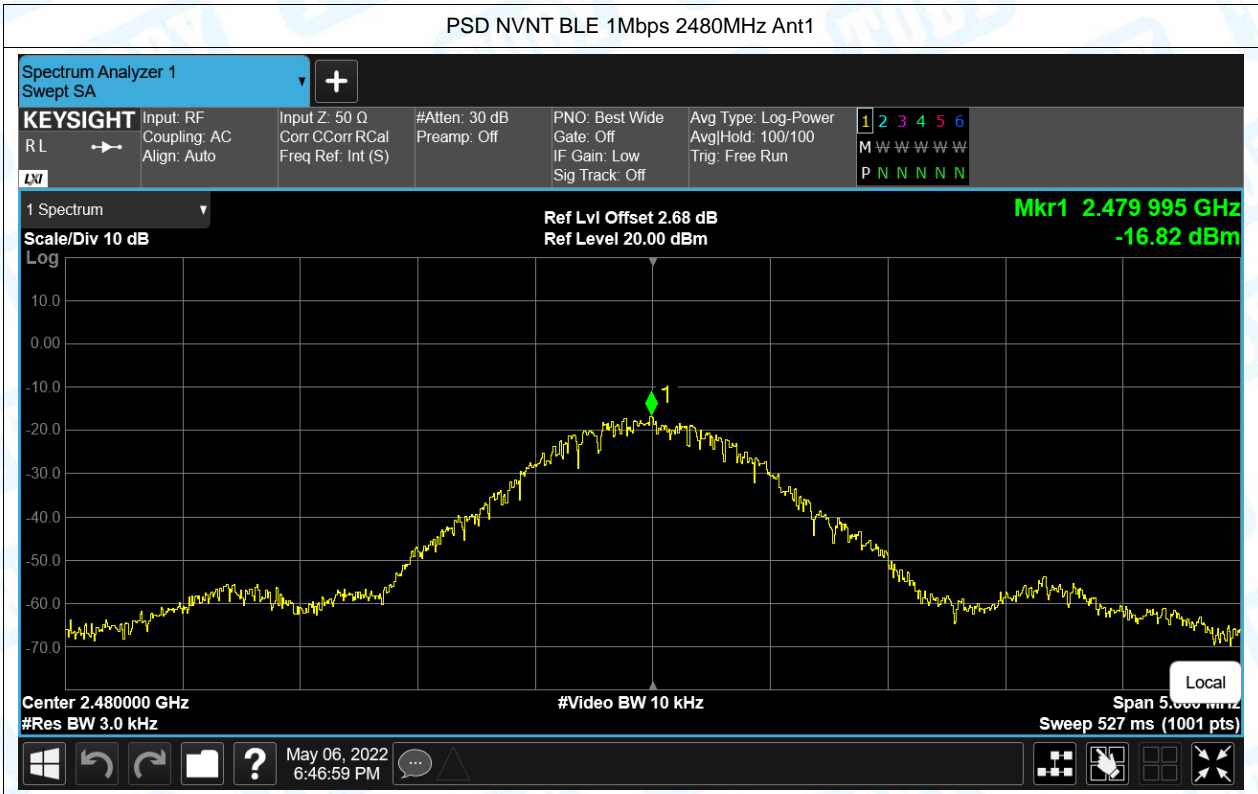
Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



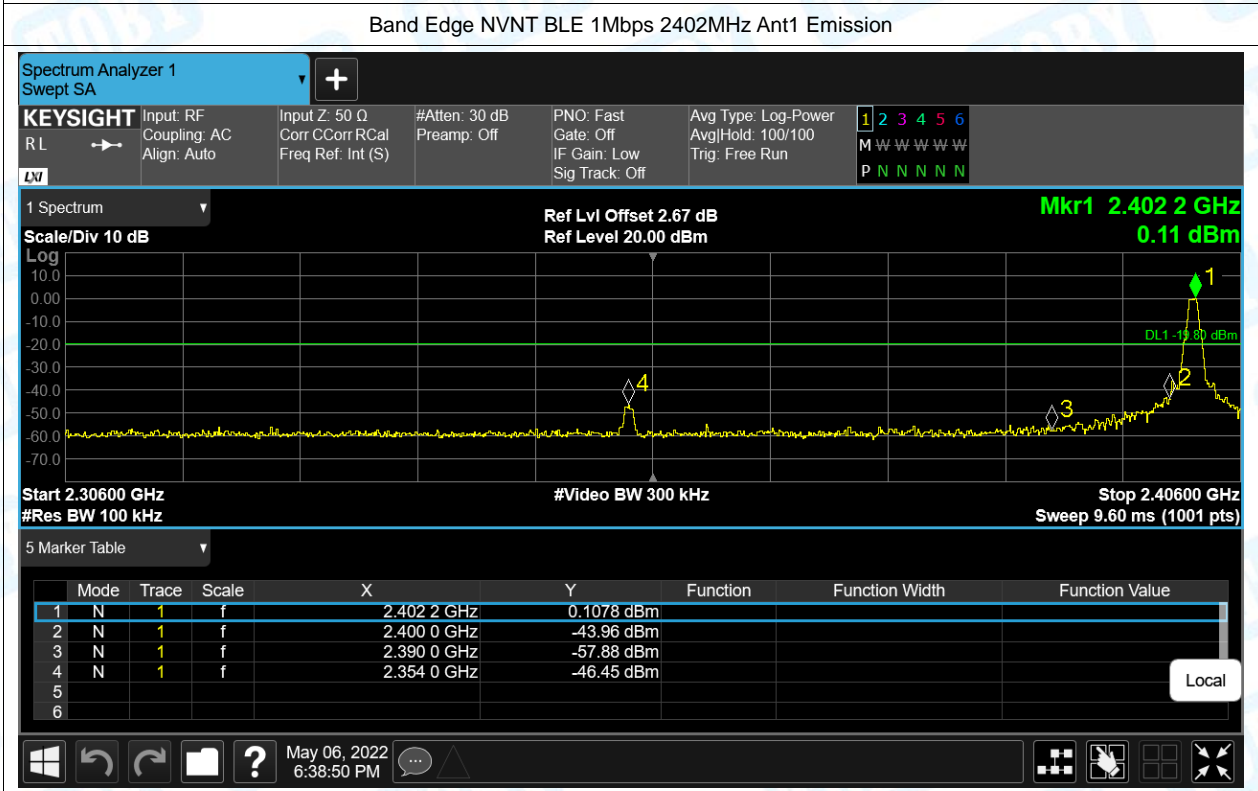
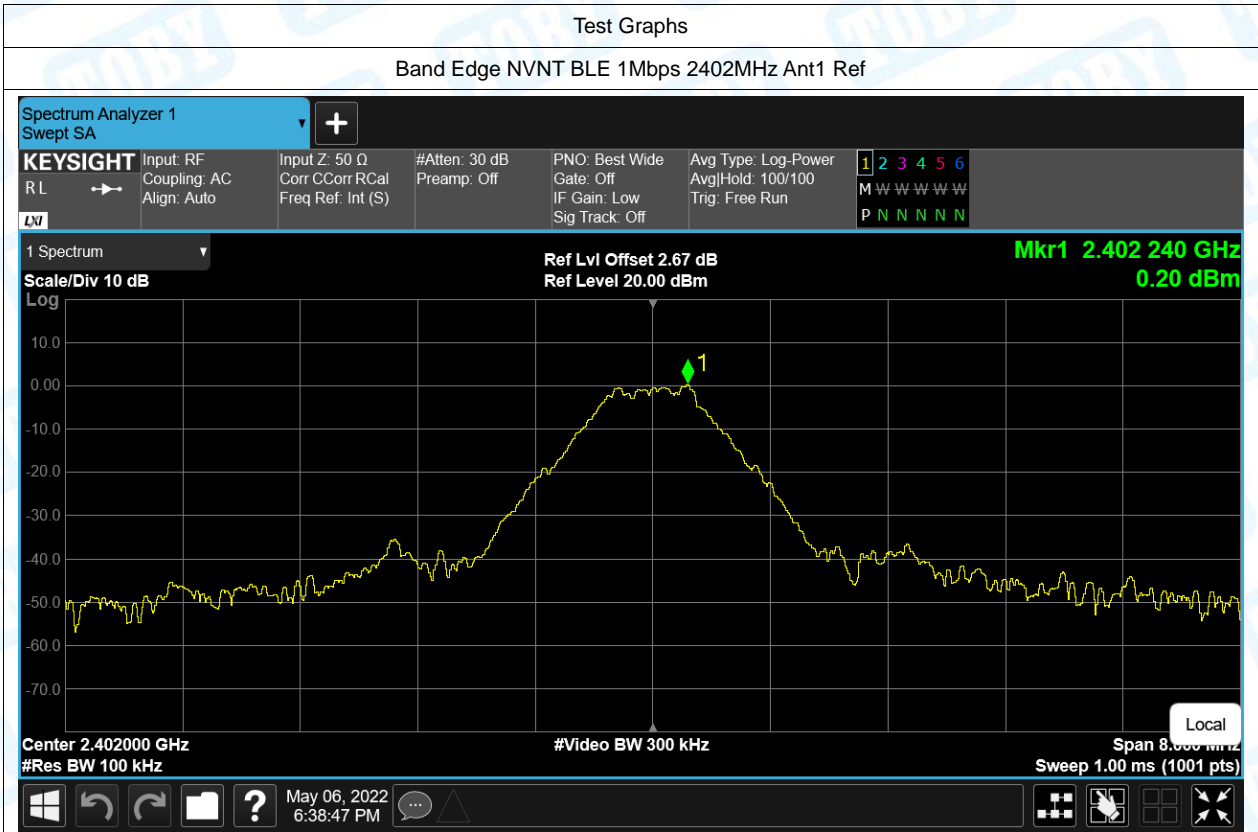
PSD NVNT BLE 1Mbps 2440MHz Ant1

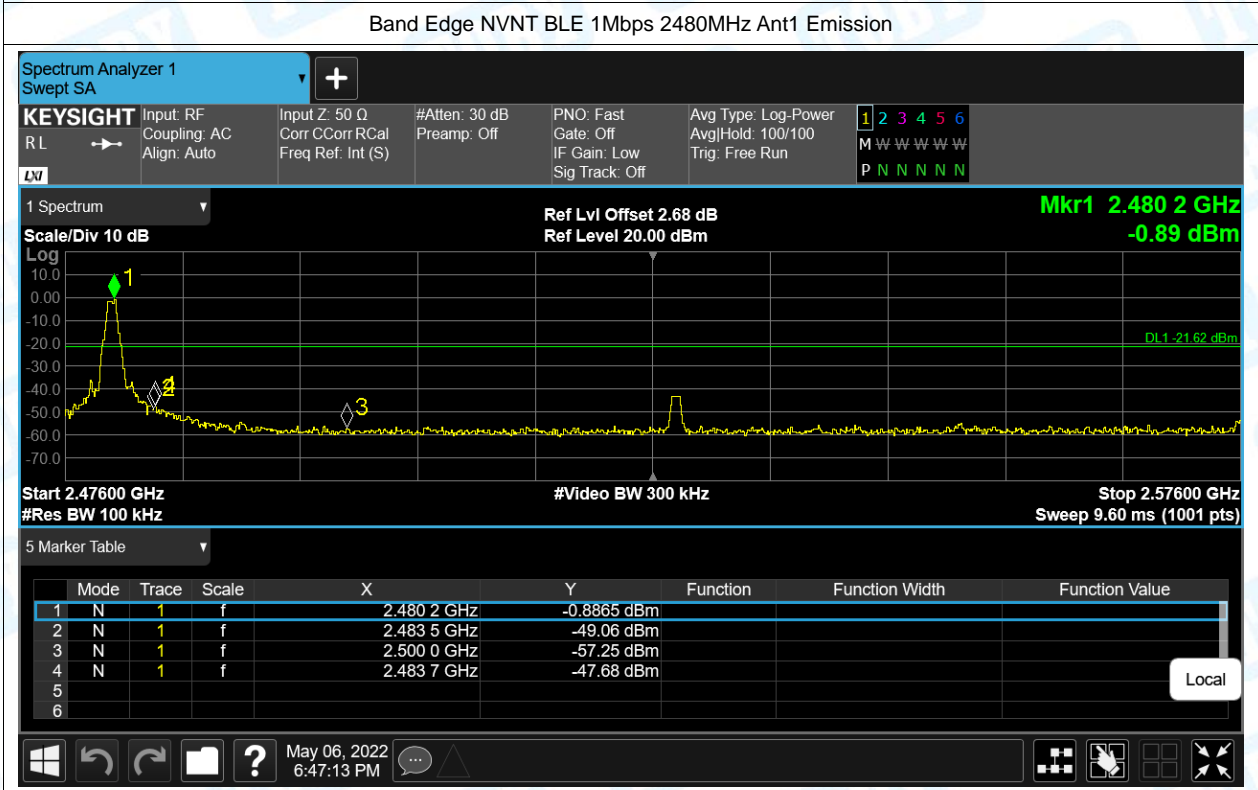
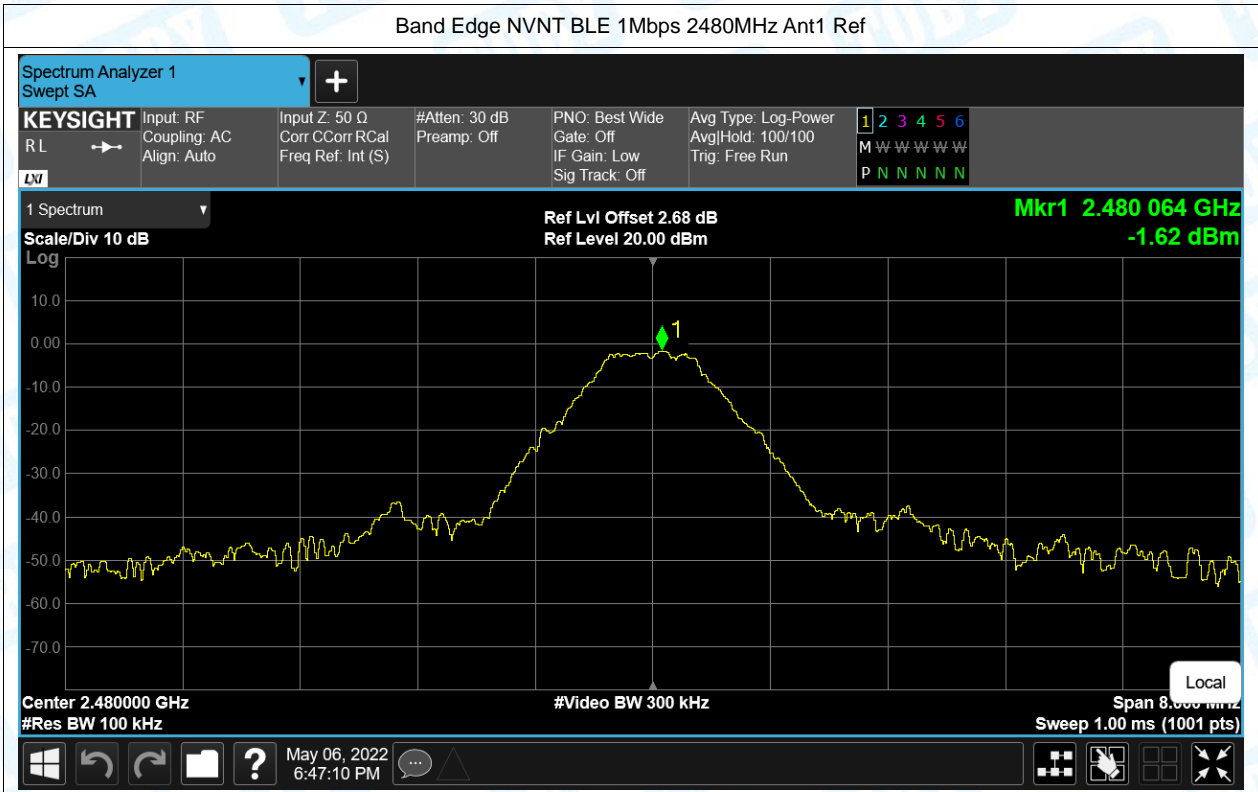




Band Edge

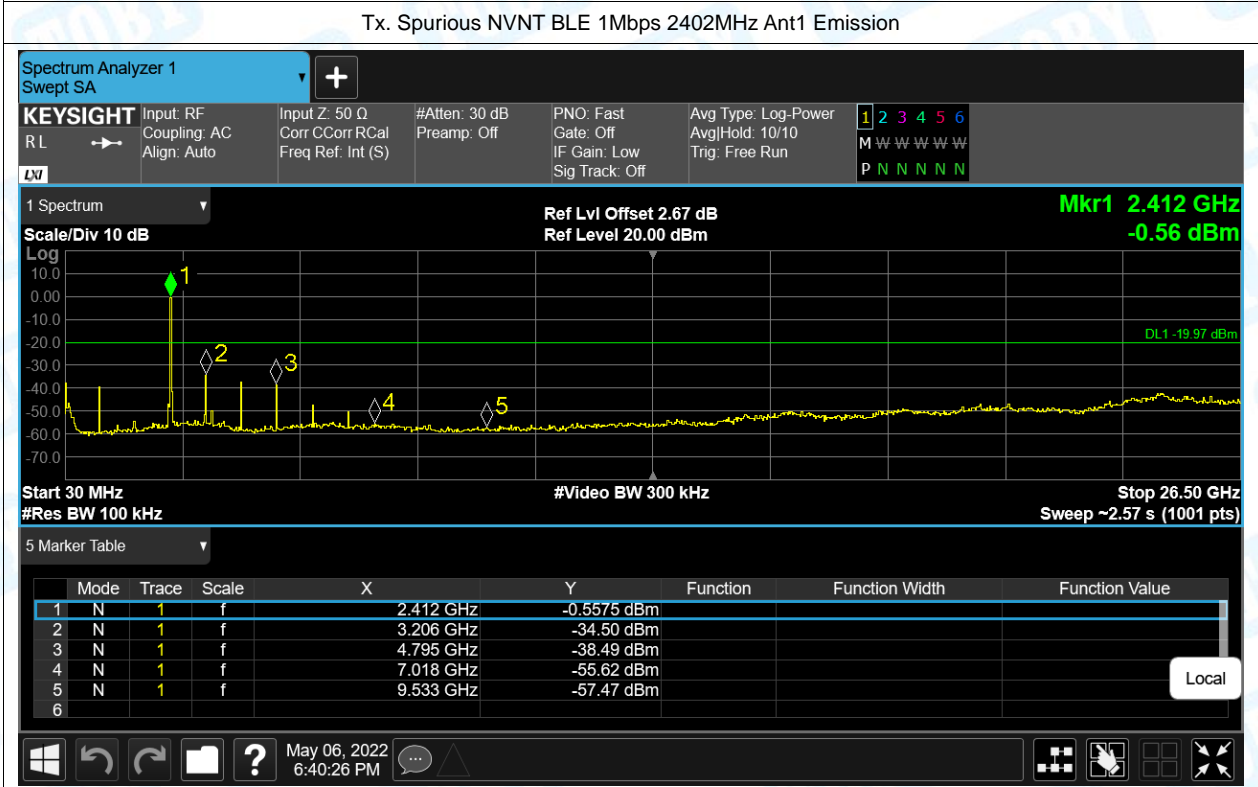
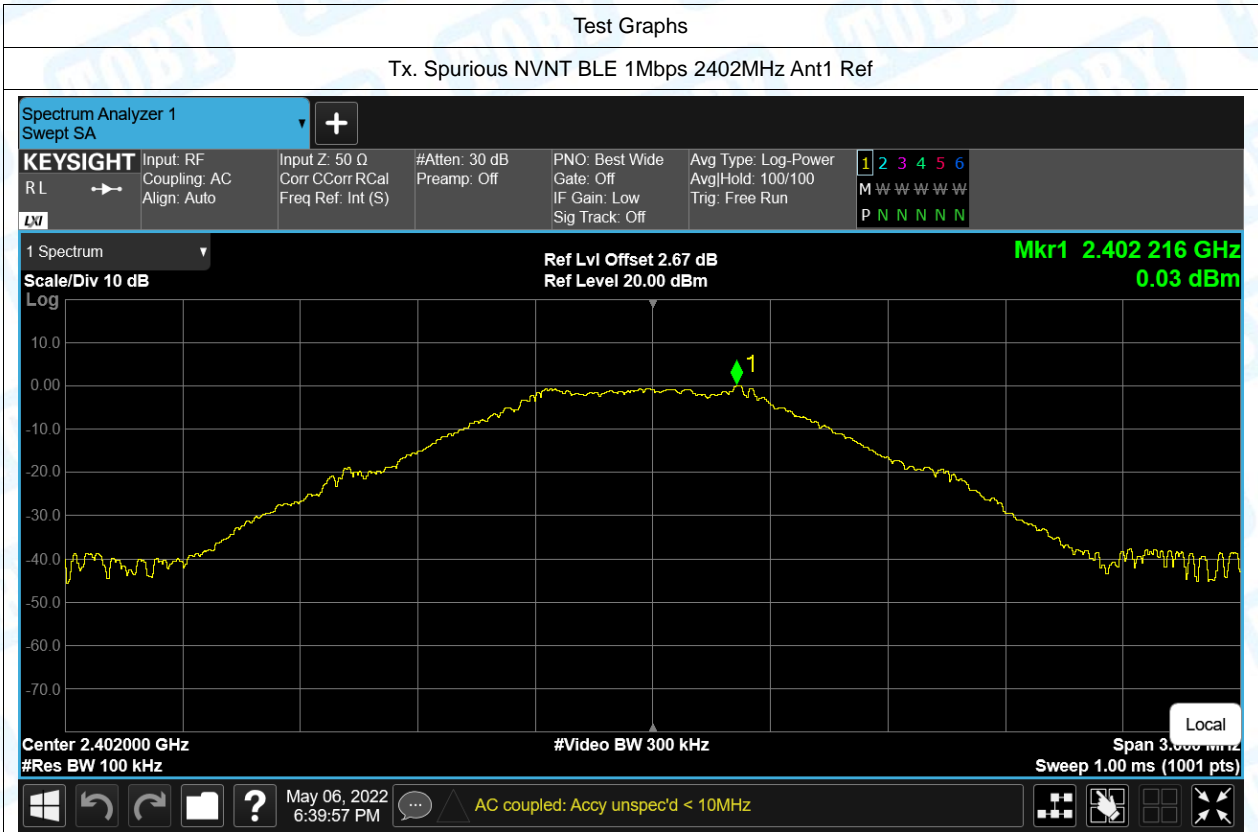
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-----------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | -46.65 | -20 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | -46.06 | -20 | Pass |

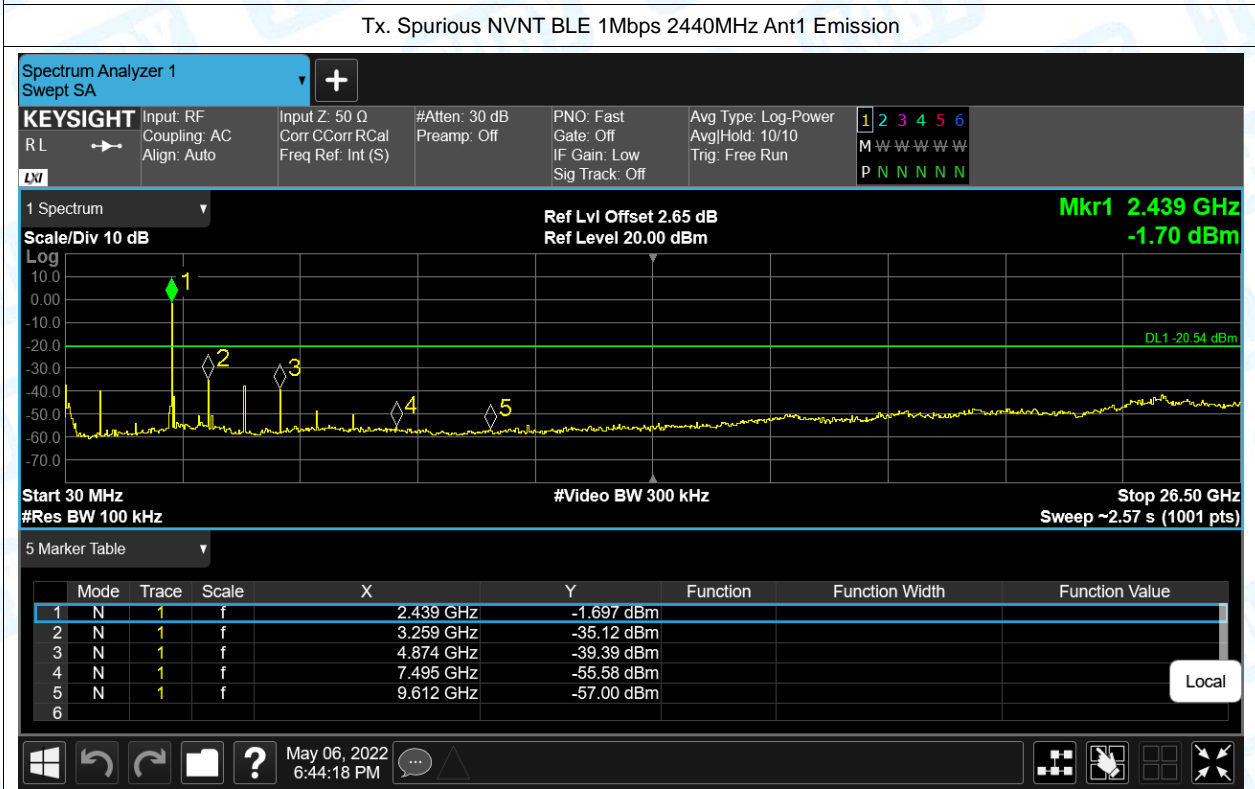
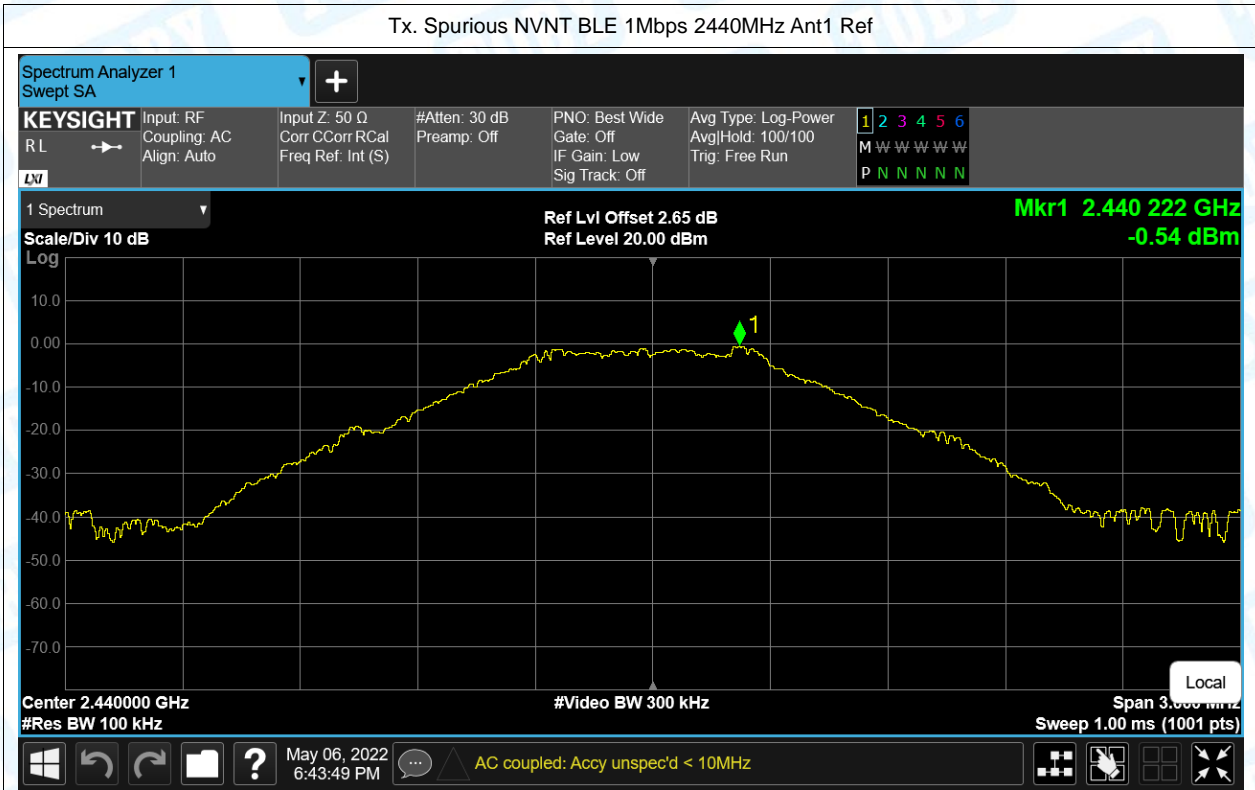


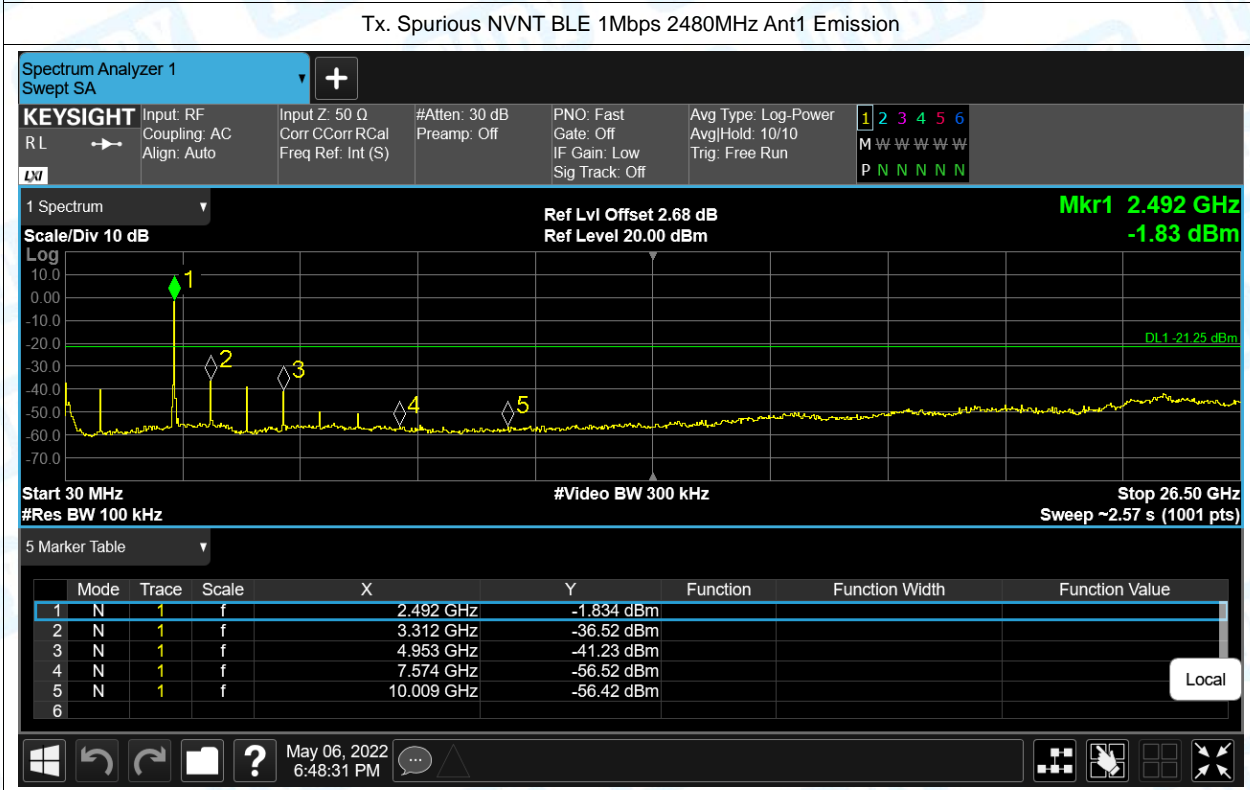
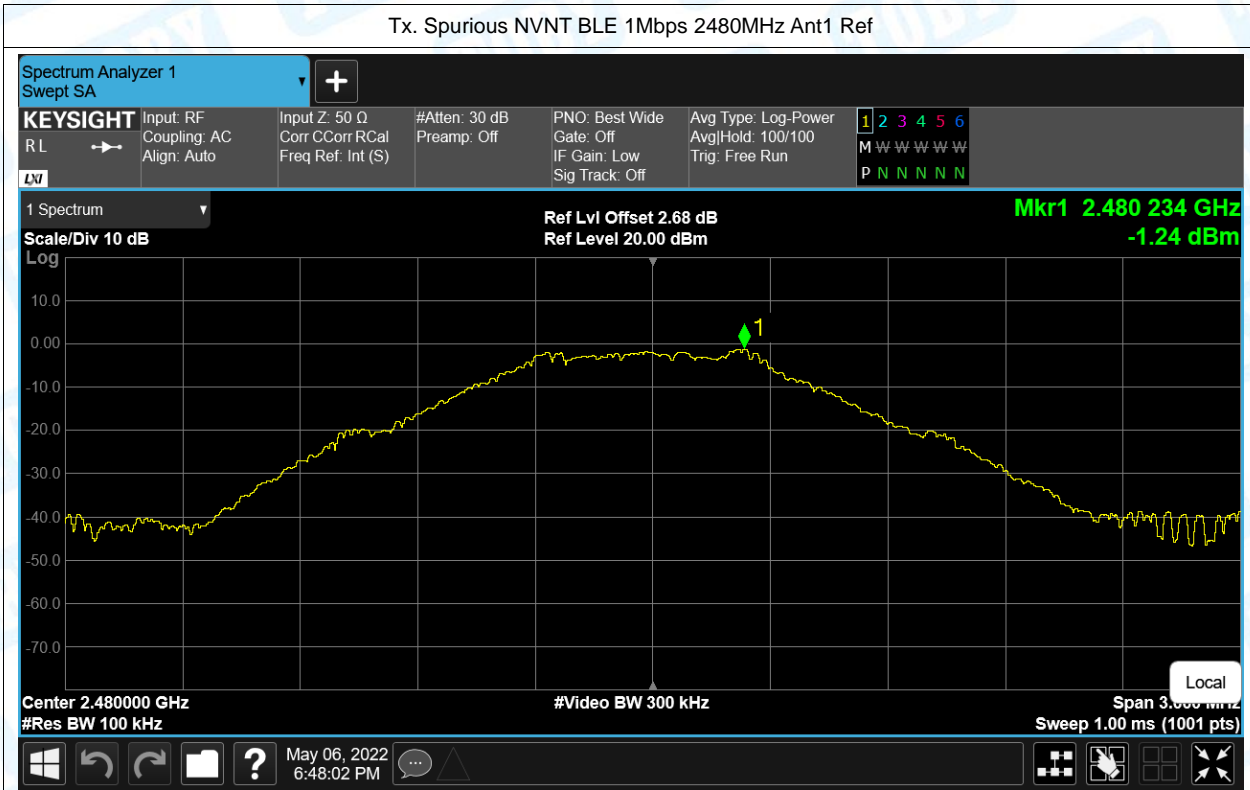


Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-----------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | -34.53 | -20 | Pass |
| NVNT | BLE 1Mbps | 2440 | Ant1 | -34.58 | -20 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | -35.28 | -20 | Pass |







Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|--------------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT | BLE 1Mbps | 2402 | Ant1 | 2310 | -49.38 | 2 | 47.88 | Peak | 74 | Pass |
| NVNT | BLE 1Mbps | 2402 | Ant1 | 2310 | -58.7 | 2 | 38.56 | Average | 54 | Pass |
| NVNT | BLE 1Mbps | 2402 | Ant1 | 2389.776 | -40.31 | 2 | 56.95 | Peak | 74 | Pass |
| NVNT | BLE 1Mbps | 2402 | Ant1 | 2354.064 | -46.98 | 2 | 50.28 | Average | 54 | Pass |
| NVNT | BLE 1Mbps | 2402 | Ant1 | 2390 | -48.2 | 2 | 49.06 | Peak | 74 | Pass |
| NVNT | BLE 1Mbps | 2402 | Ant1 | 2390 | -56.95 | 2 | 40.31 | Average | 54 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 2483.5 | -37.48 | 2 | 59.78 | Peak | 74 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 2483.5 | -51.2 | 2 | 46.06 | Average | 54 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 2483.944 | -30.33 | 2 | 66.93 | Peak | 74 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 2483.512 | -51.2 | 2 | 46.06 | Average | 54 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 2500 | -48.76 | 2 | 48.5 | Peak | 74 | Pass |
| NVNT | BLE 1Mbps | 2480 | Ant1 | 2500 | -58.34 | 2 | 38.92 | Average | 54 | Pass |

