















10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

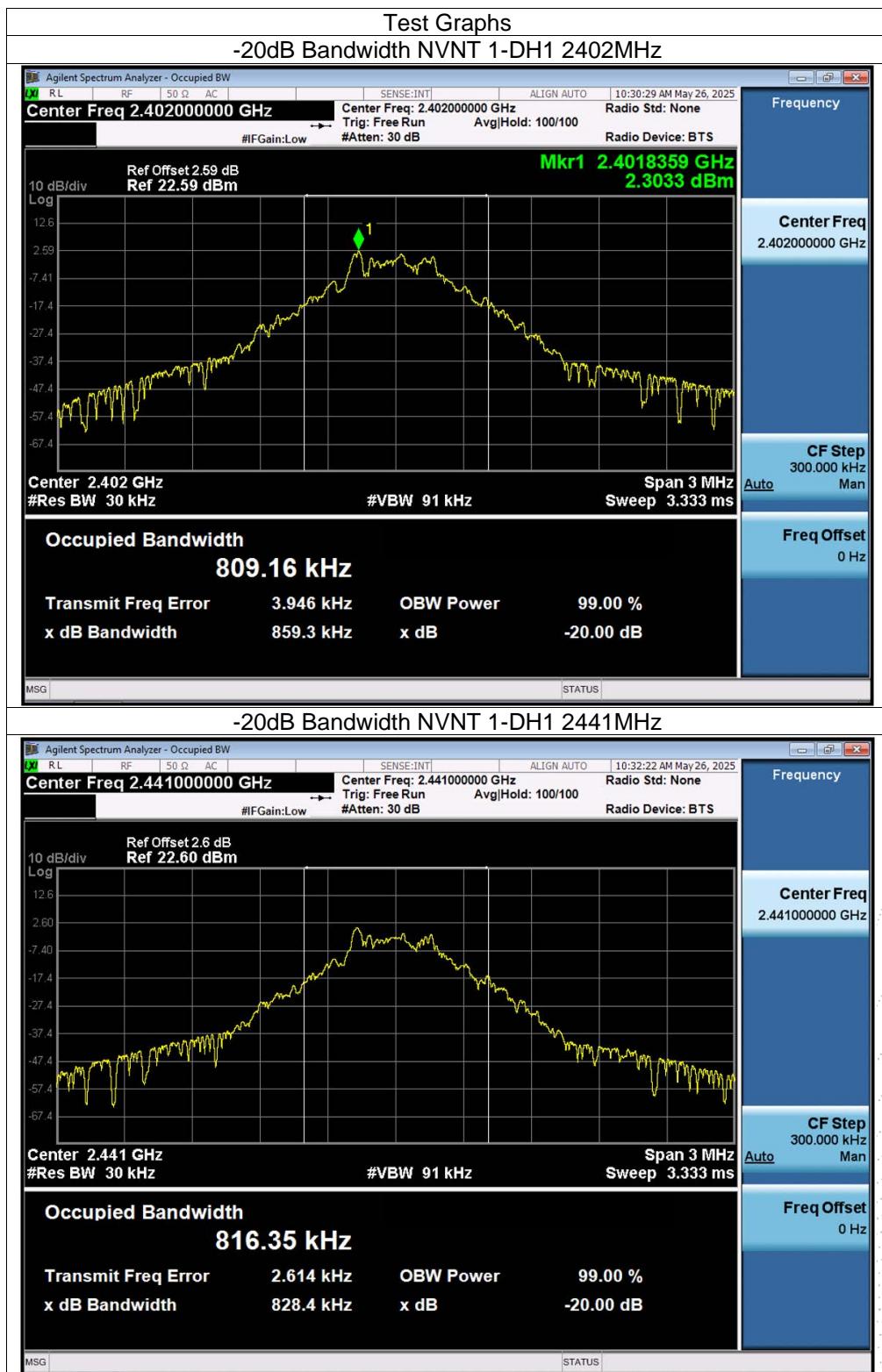
N/A

10.3 Test procedure

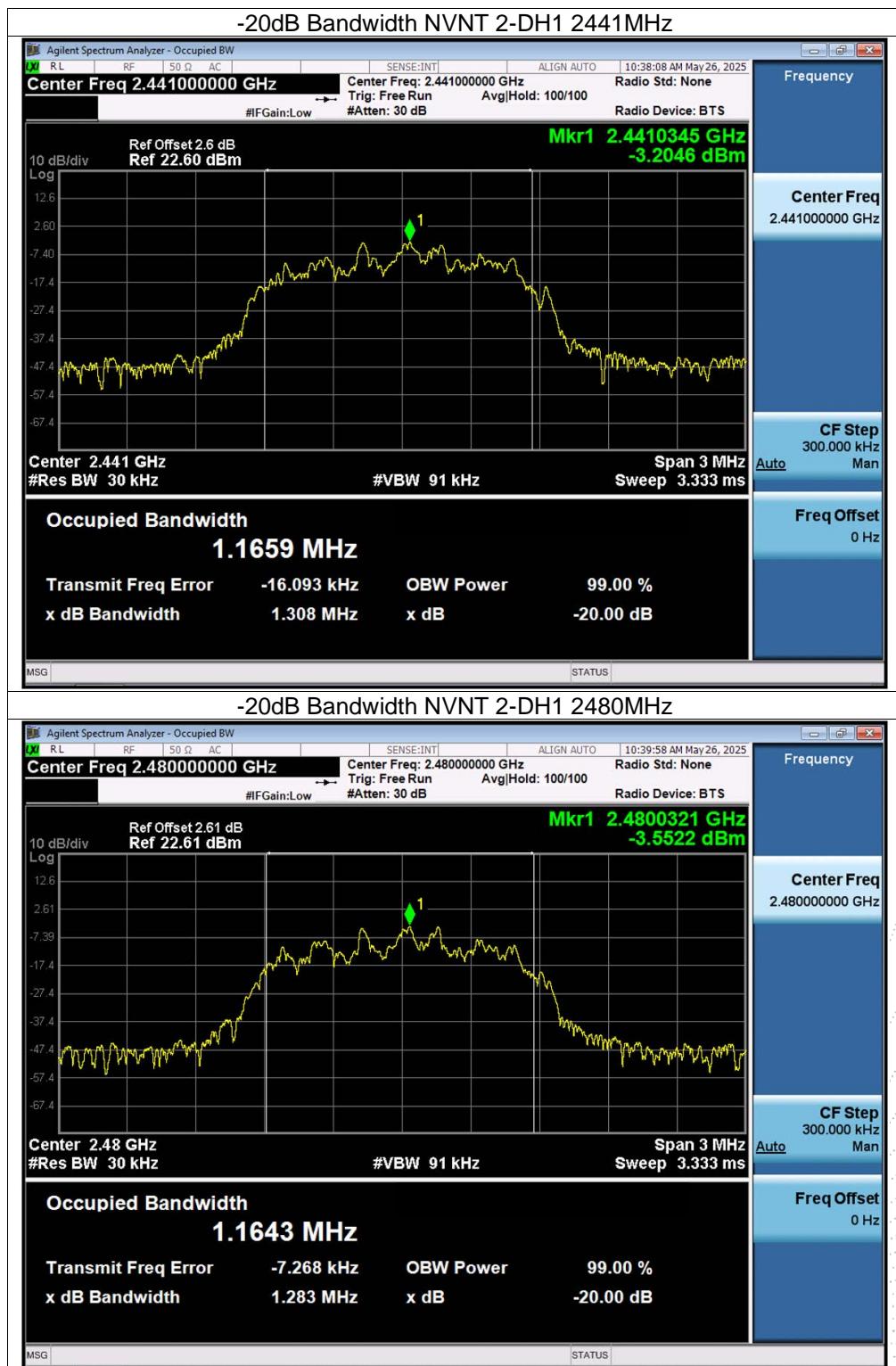
1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

| Condition | Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|------------------------|---------|
| NVNT | 1-DH1 | 2402 | 0.859 | Pass |
| NVNT | 1-DH1 | 2441 | 0.828 | Pass |
| NVNT | 1-DH1 | 2480 | 0.864 | Pass |
| NVNT | 2-DH1 | 2402 | 1.285 | Pass |
| NVNT | 2-DH1 | 2441 | 1.308 | Pass |
| NVNT | 2-DH1 | 2480 | 1.283 | Pass |
| NVNT | 3-DH1 | 2402 | 1.205 | Pass |
| NVNT | 3-DH1 | 2441 | 1.204 | Pass |
| NVNT | 3-DH1 | 2480 | 1.218 | Pass |











11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

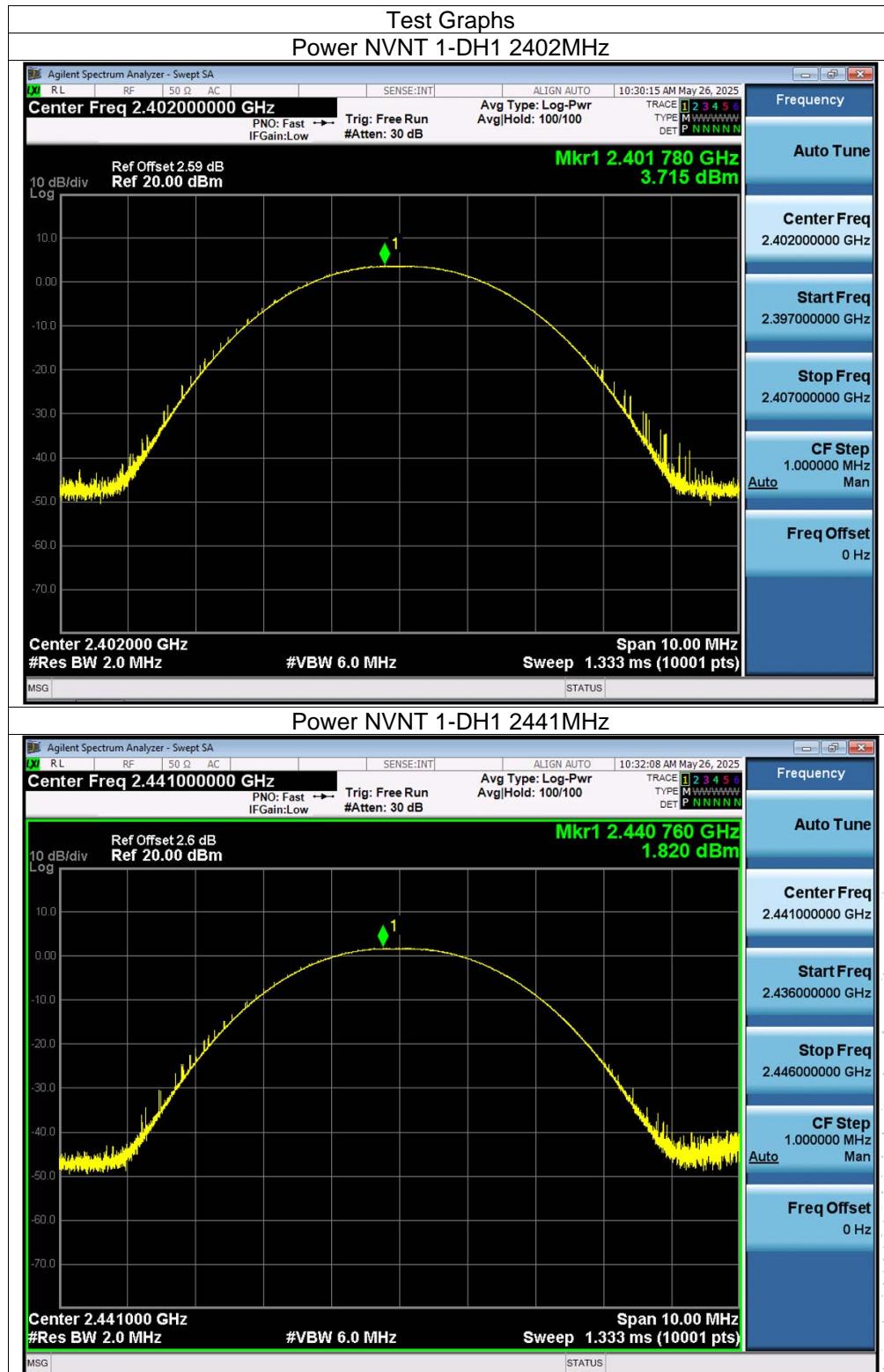
| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|-------------------|---------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(1) | Peak Output Power | 0.125 watt or 21dBm | 2400-2483.5 | PASS |

11.3 Test procedure

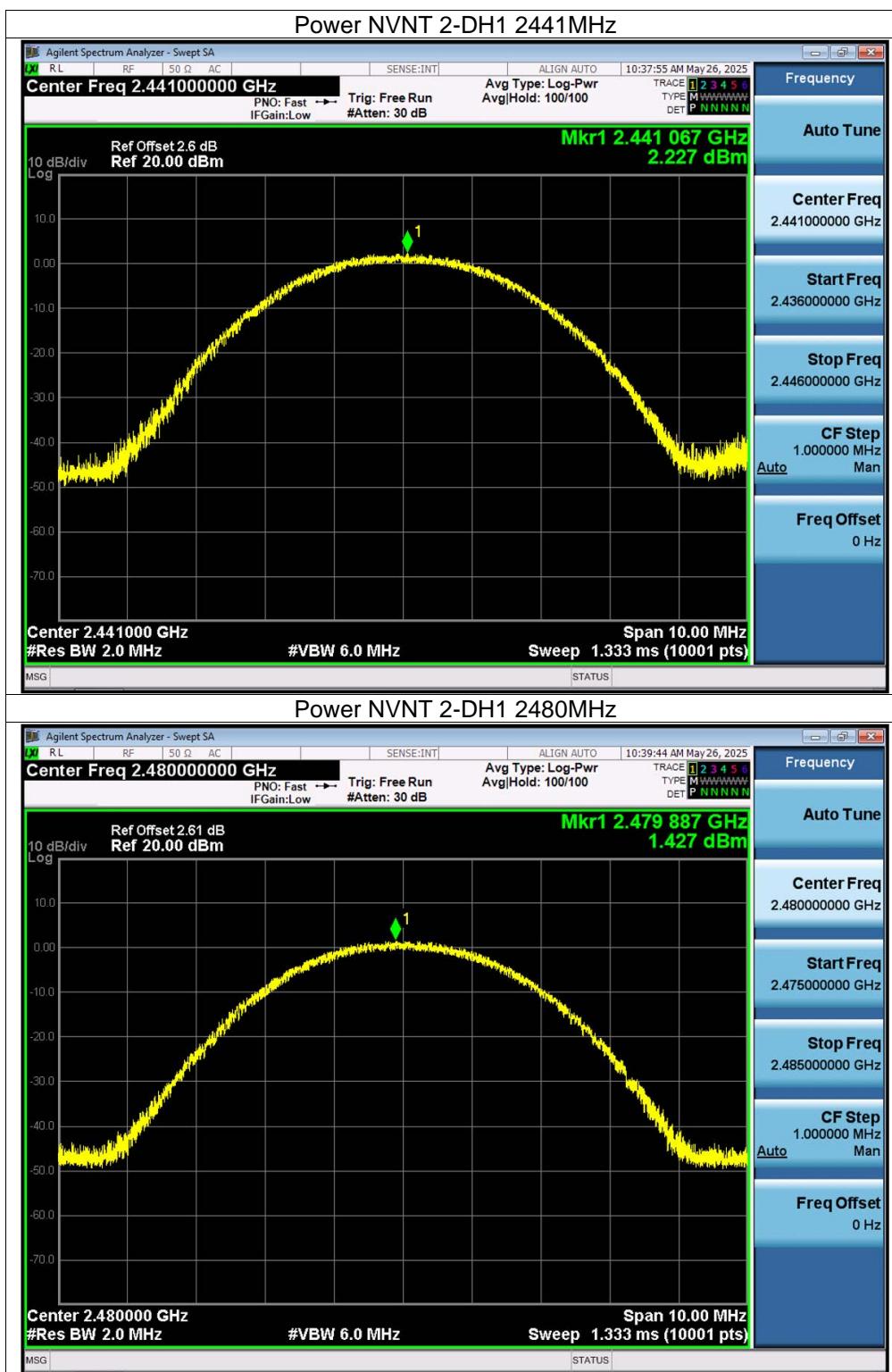
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

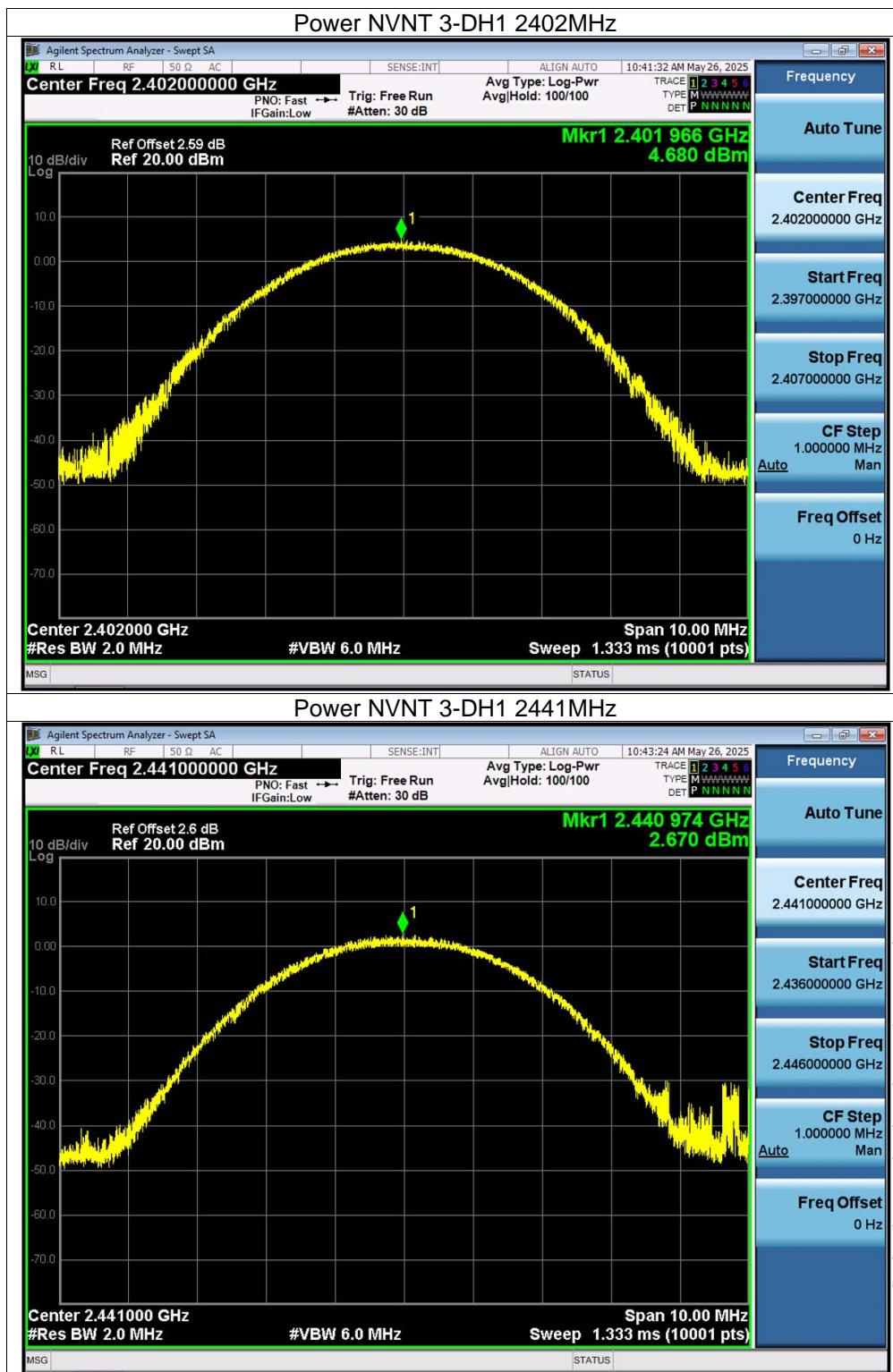
11.4 Test Result

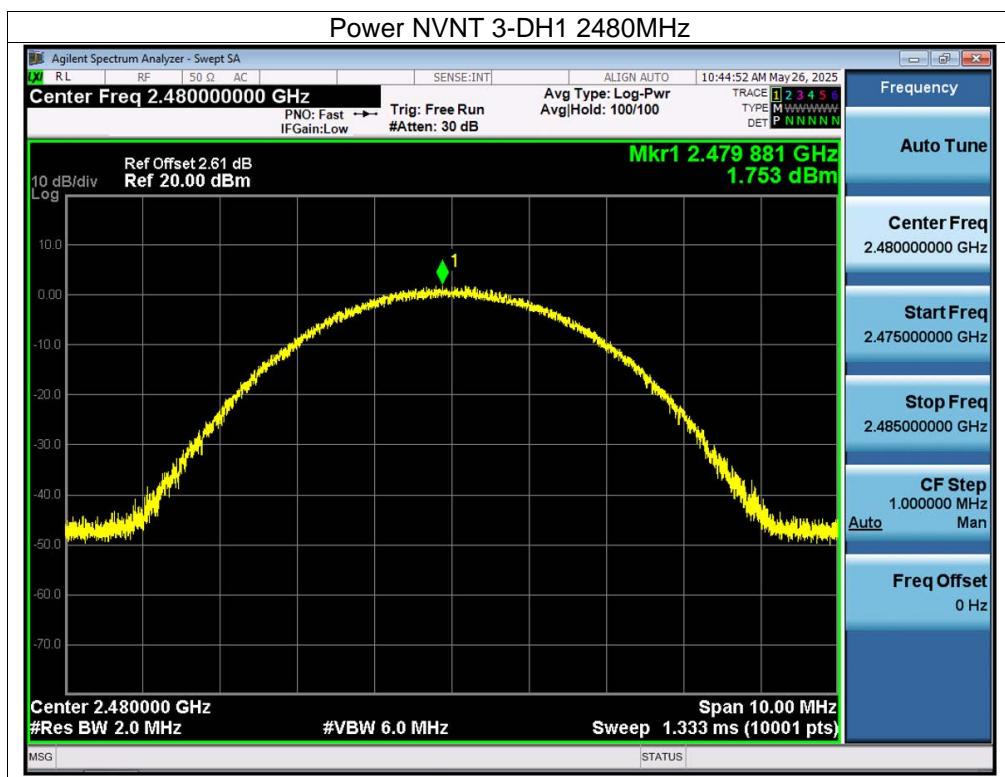
| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|-----------------------|-------------|---------|
| NVNT | 1-DH1 | 2402 | 3.72 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | 1.82 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | 1.01 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | 4.38 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | 2.23 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | 1.43 | 21 | Pass |
| NVNT | 3-DH1 | 2402 | 4.68 | 21 | Pass |
| NVNT | 3-DH1 | 2441 | 2.67 | 21 | Pass |
| NVNT | 3-DH1 | 2480 | 1.75 | 21 | Pass |











12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30 kHz. VBW = 100 kHz, Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

12.4 Test Result

| Condition | Mode | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------------------|---------------------|-----------|-------------|---------|
| NVNT | 1-DH1 | 2401.828 | 2402.83 | 1.002 | 0.573 | Pass |
| NVNT | 1-DH1 | 2440.828 | 2441.826 | 0.998 | 0.552 | Pass |
| NVNT | 1-DH1 | 2478.83 | 2479.828 | 0.998 | 0.576 | Pass |
| NVNT | 2-DH1 | 2402.022 | 2403.022 | 1 | 0.857 | Pass |
| NVNT | 2-DH1 | 2441.022 | 2442.024 | 1.002 | 0.872 | Pass |
| NVNT | 2-DH1 | 2479.022 | 2480.022 | 1 | 0.855 | Pass |
| NVNT | 3-DH1 | 2402.024 | 2403.022 | 0.998 | 0.803 | Pass |
| NVNT | 3-DH1 | 2441.02 | 2442.022 | 1.002 | 0.803 | Pass |
| NVNT | 3-DH1 | 2479.024 | 2480.022 | 0.998 | 0.812 | Pass |

