



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LAPTOP

Test Model: S15 N2 512GB

Environmental Conditions

| | |
|--------------------|------------|
| Temperature: | 23.8 ° C |
| Relative Humidity: | 52.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Eason Zhou |
| Supervised by: | Nick Peng |





A.1 -20dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 1.025 | N/A | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 1.03 | N/A | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 1.03 | N/A | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.288 | N/A | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.316 | N/A | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 1.304 | N/A | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.296 | N/A | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.3 | N/A | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 1.304 | N/A | Pass |



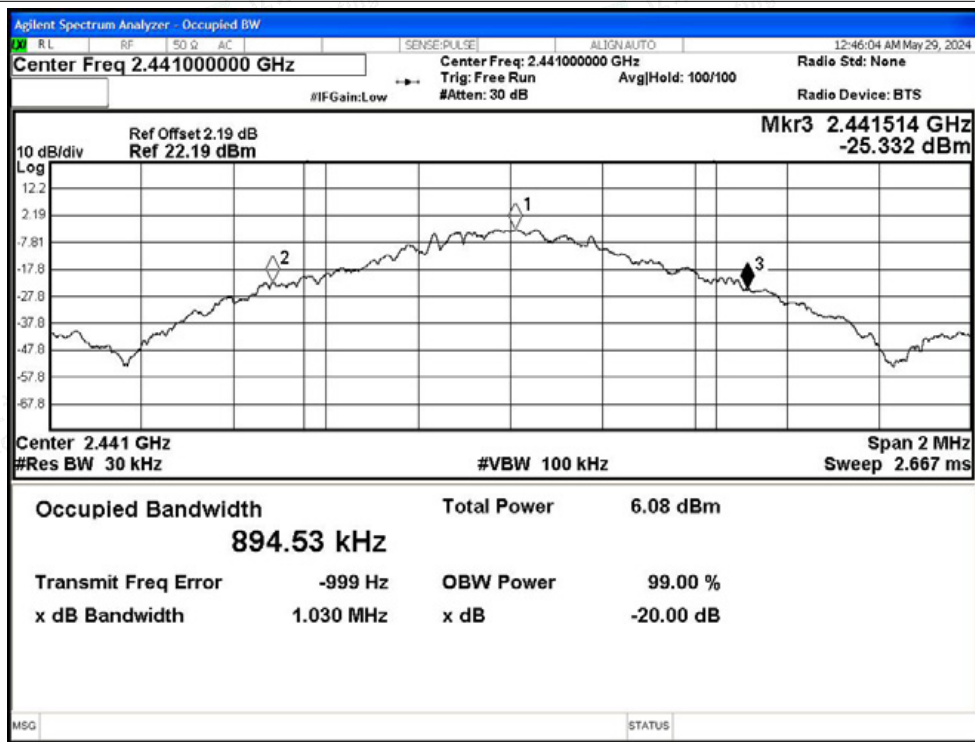


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

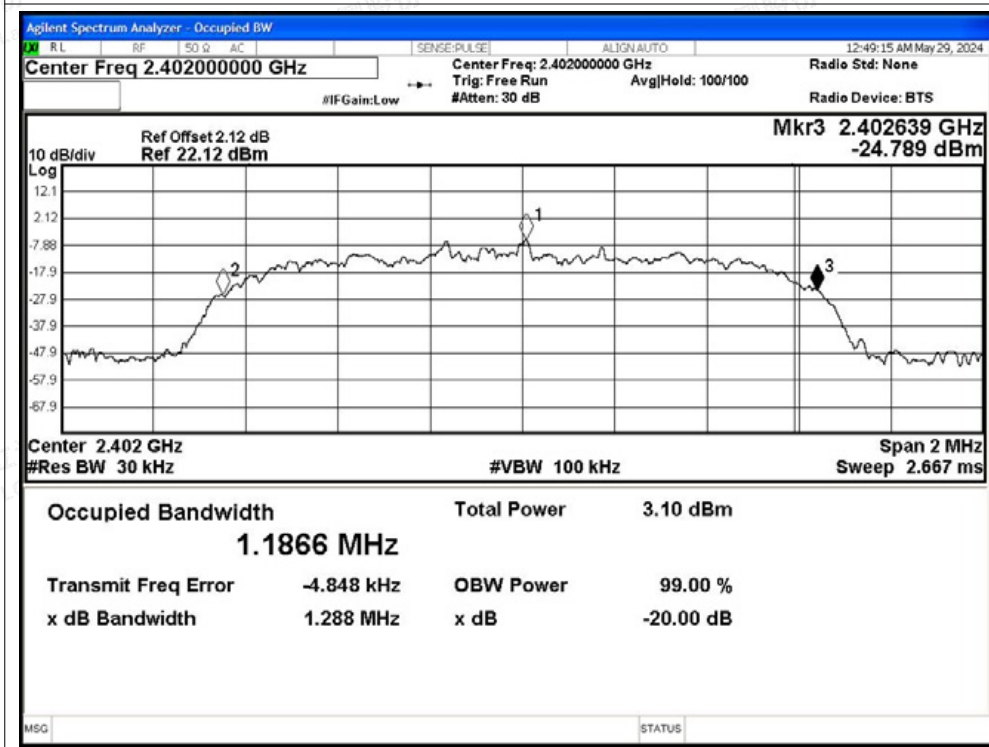




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

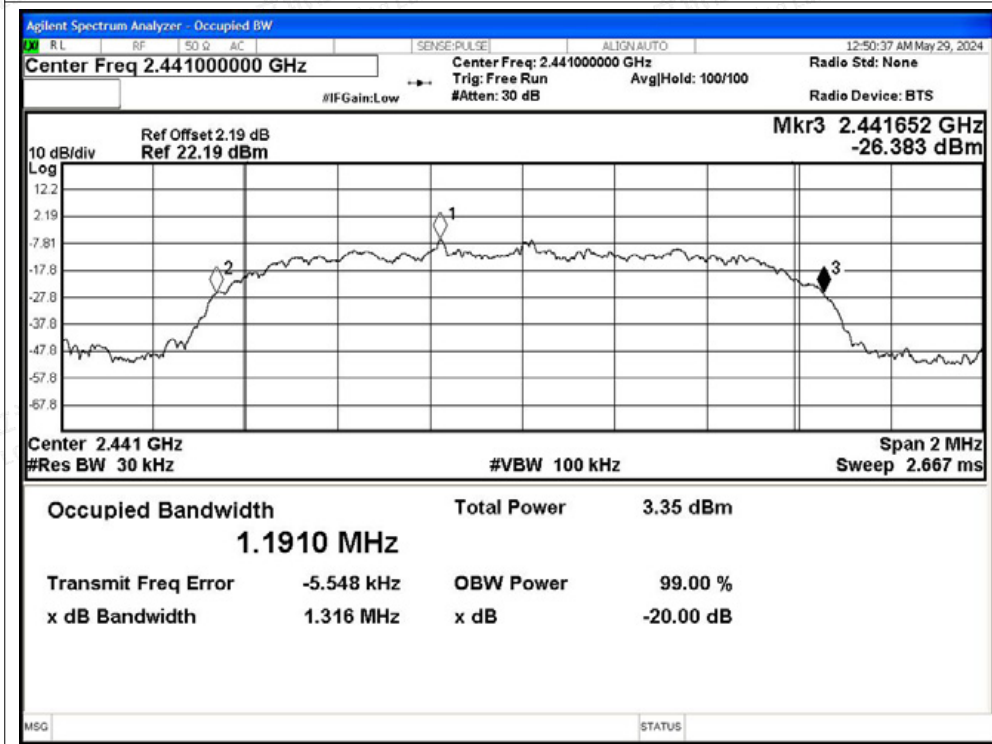


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

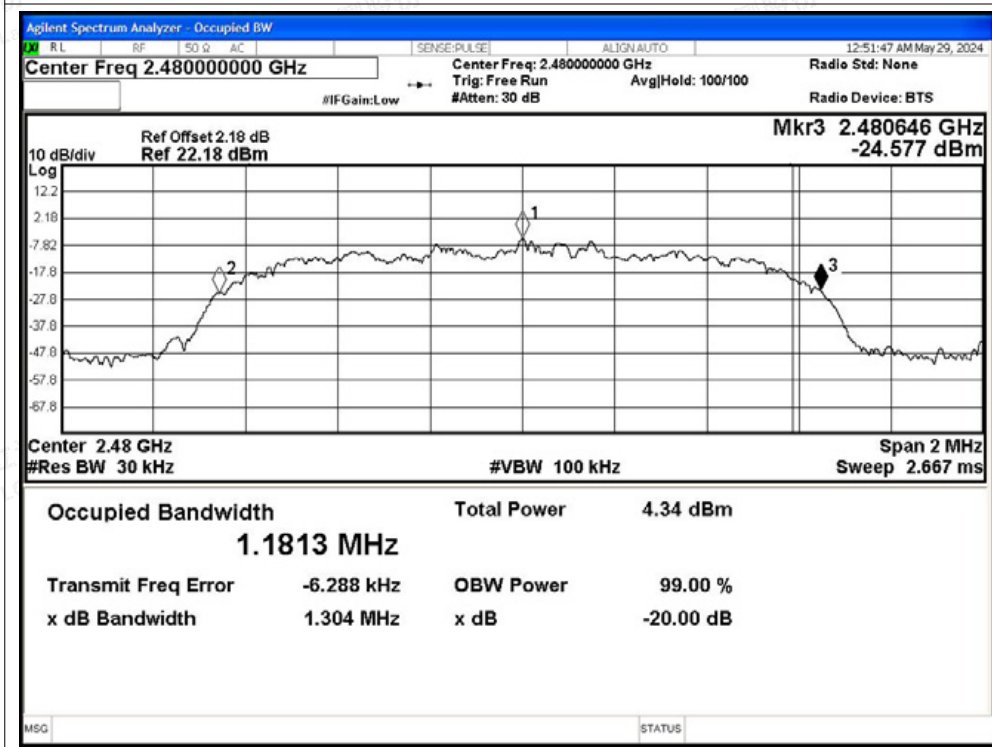




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

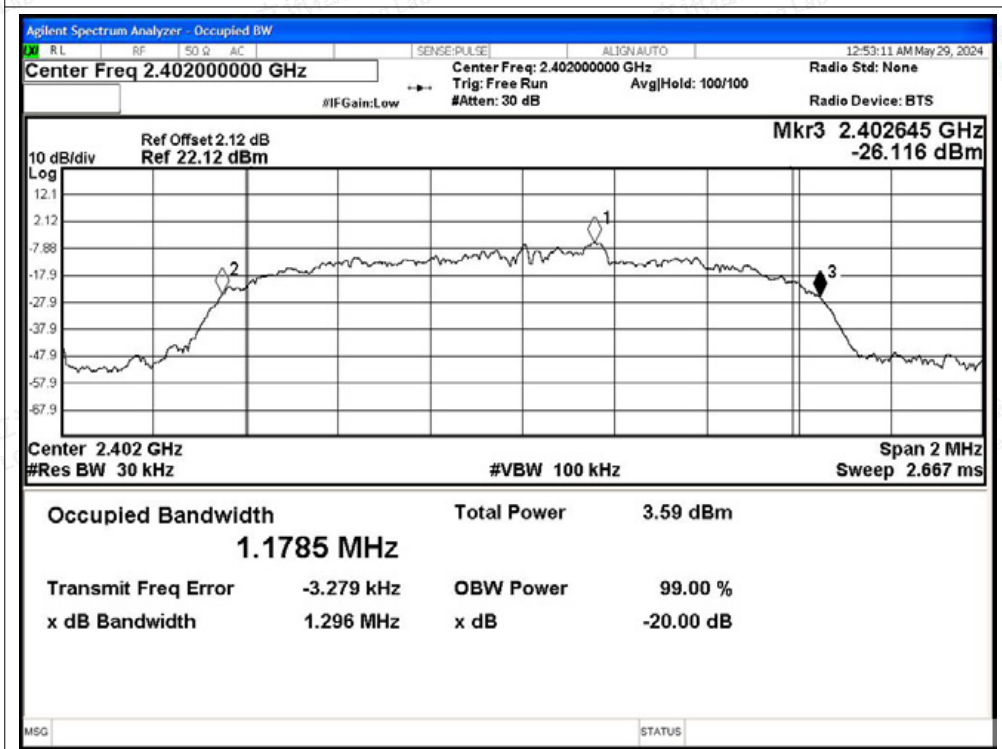


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

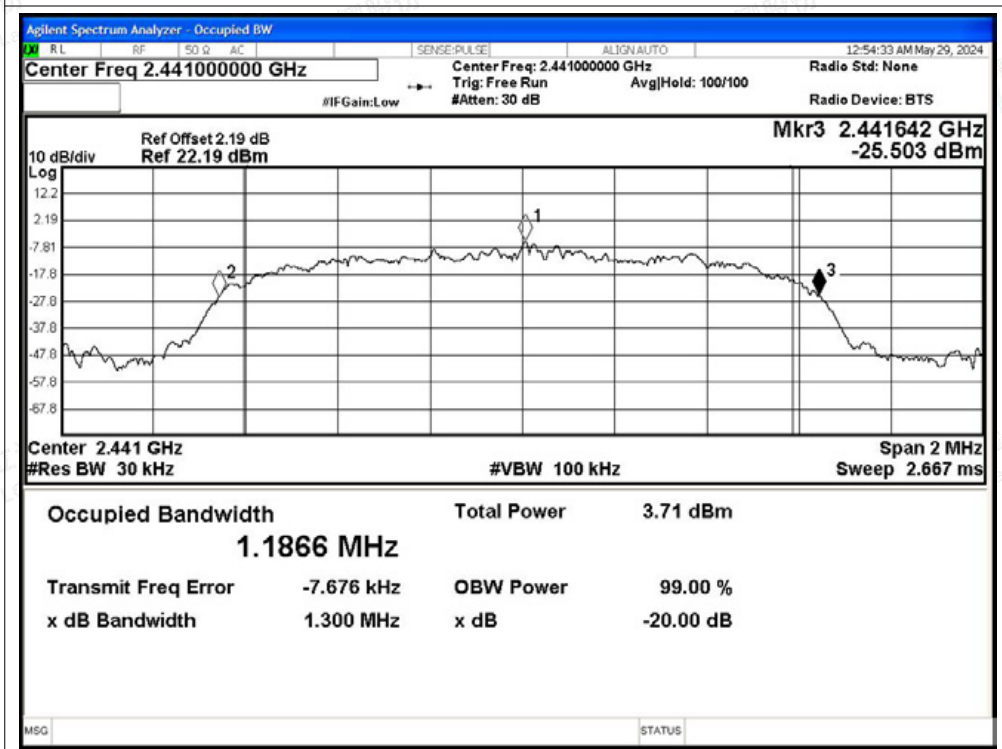




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

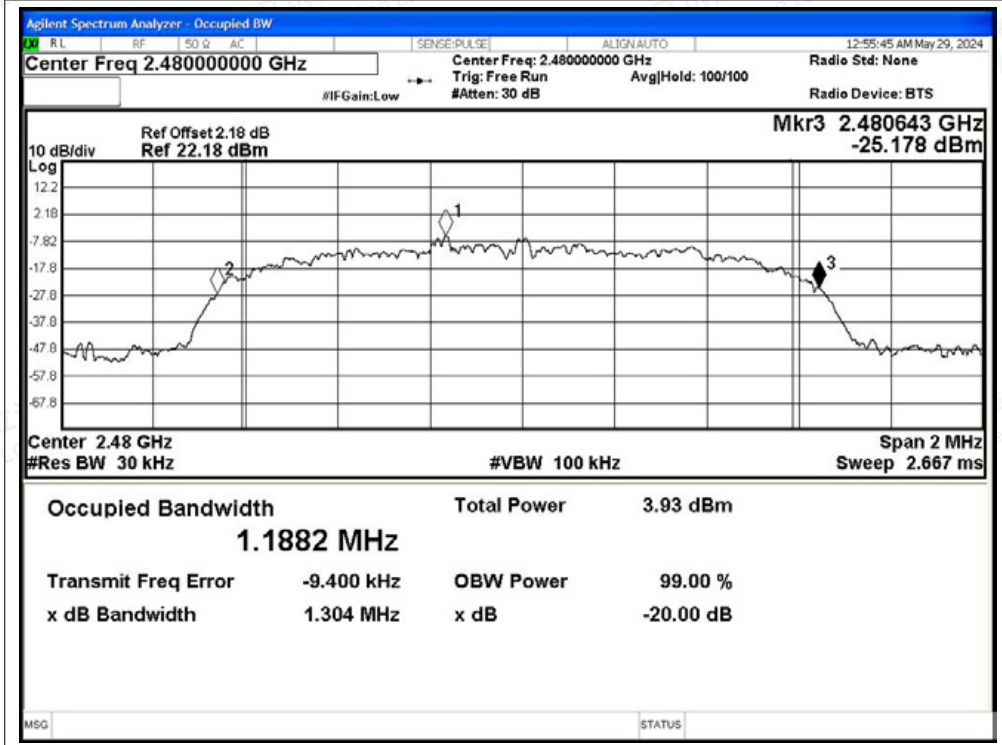


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

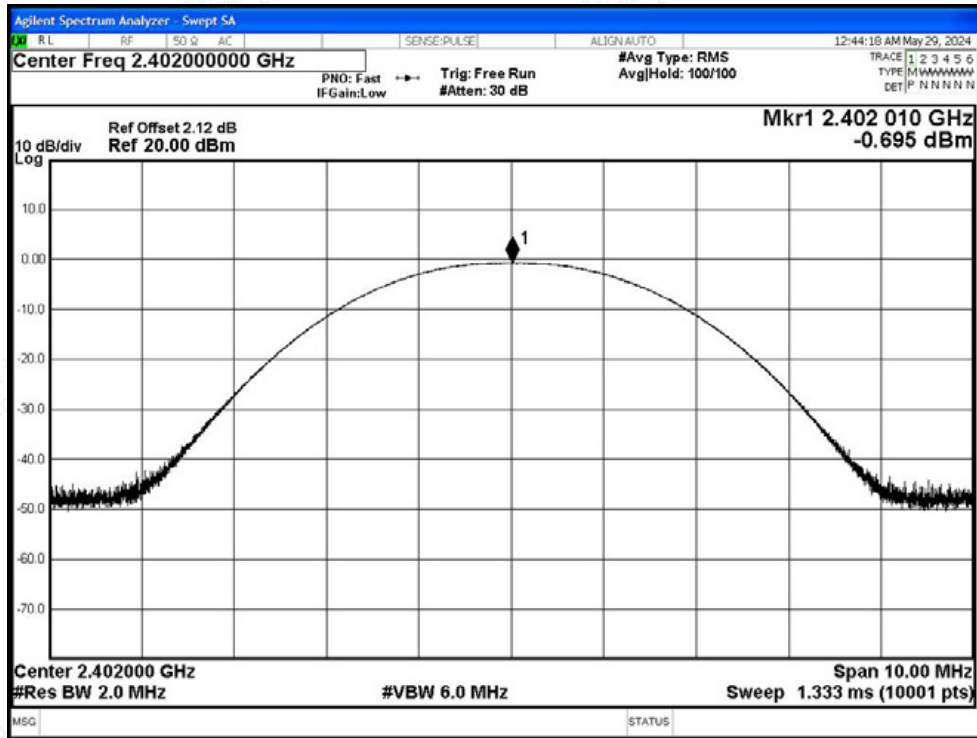
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | -0.7 | 21 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | -0.16 | 21 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 0.12 | 21 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | -1.08 | 21 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | -0.48 | 21 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | -0.17 | 21 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | -1.02 | 21 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | -0.45 | 21 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | -0.08 | 21 | Pass |



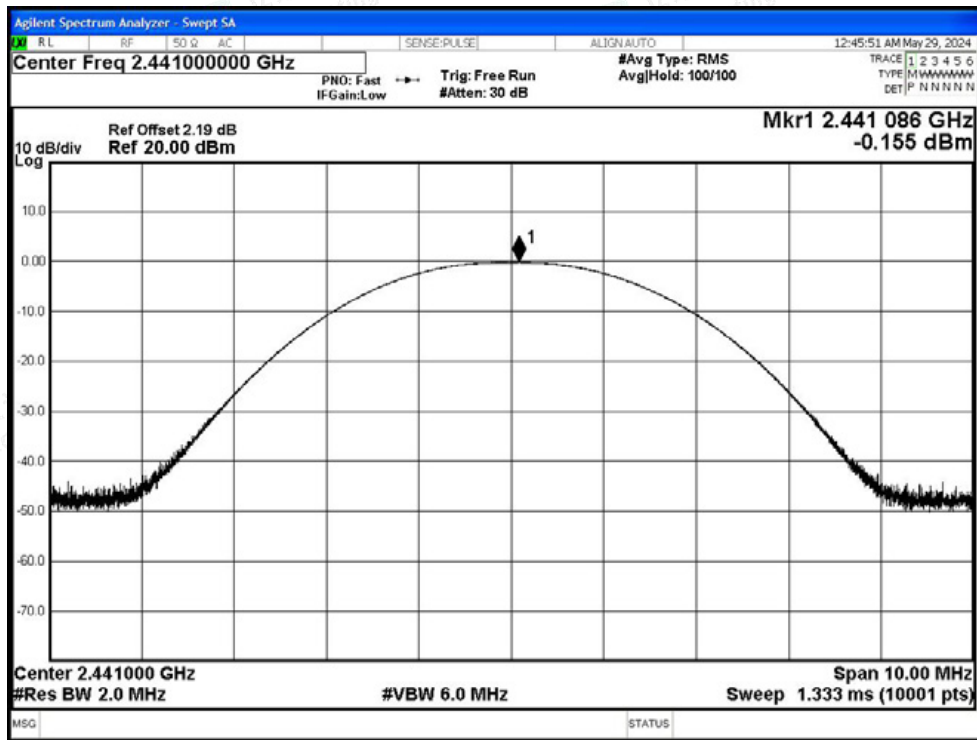


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

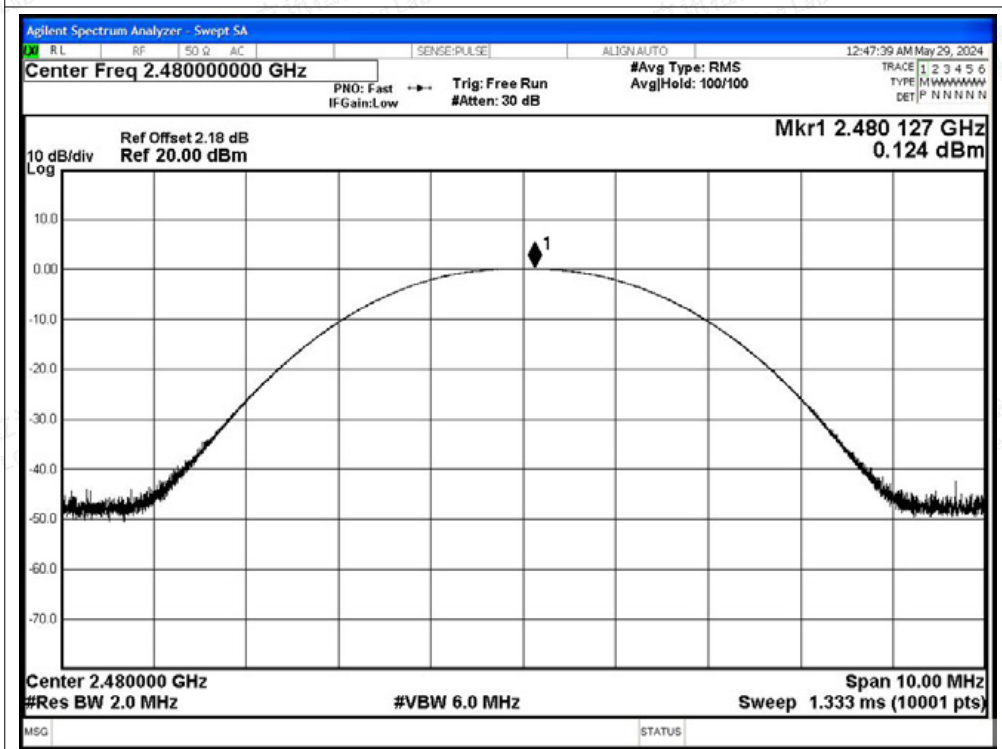


Power NVNT 1-DH5 2441MHz Ant1

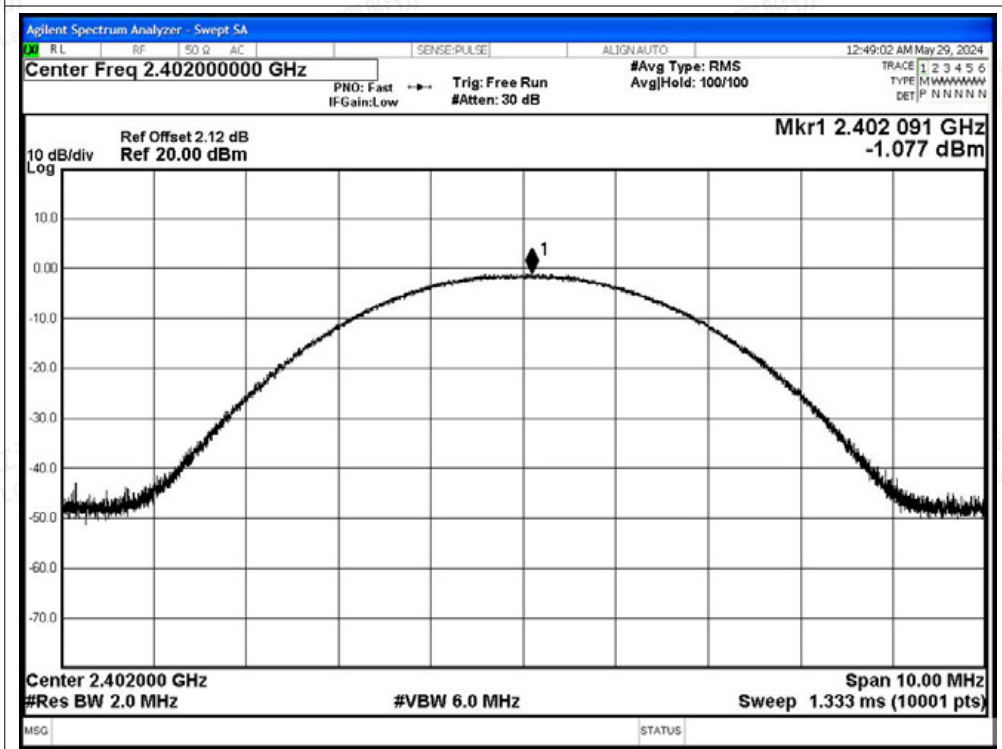




Power NVNT 1-DH5 2480MHz Ant1

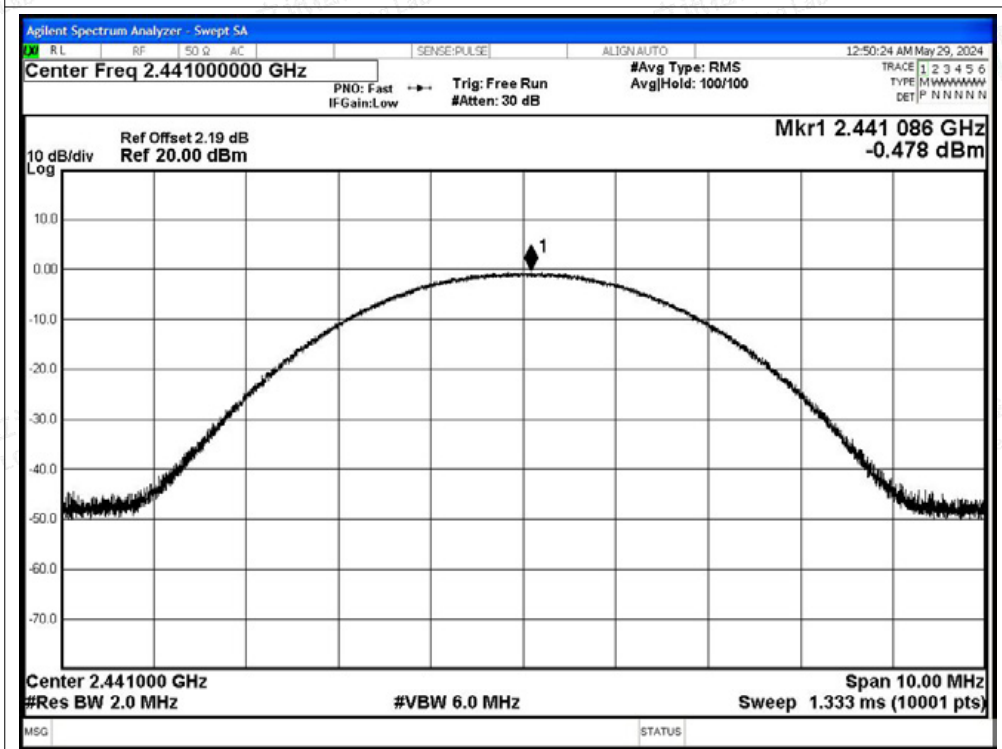


Power NVNT 2-DH5 2402MHz Ant1

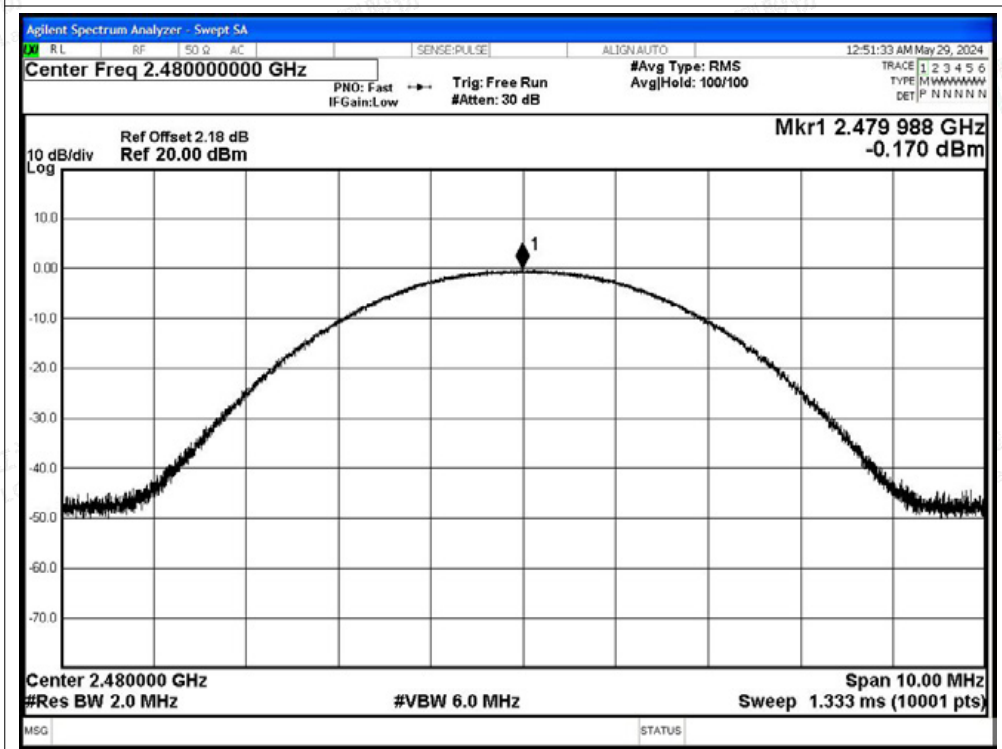




Power NVNT 2-DH5 2441MHz Ant1

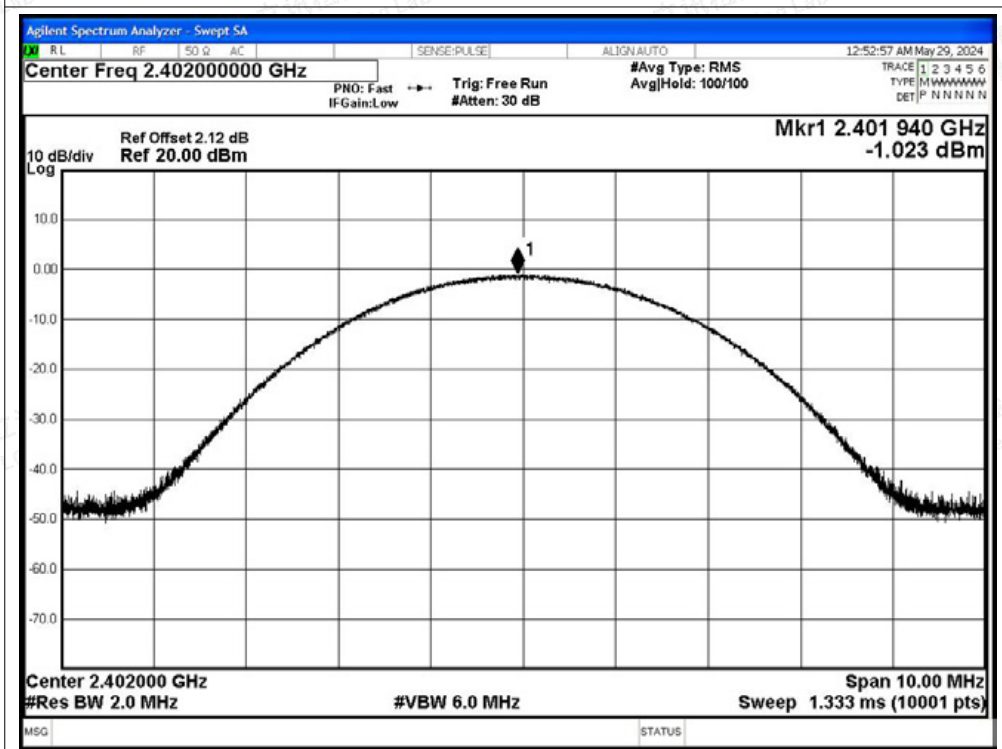


Power NVNT 2-DH5 2480MHz Ant1

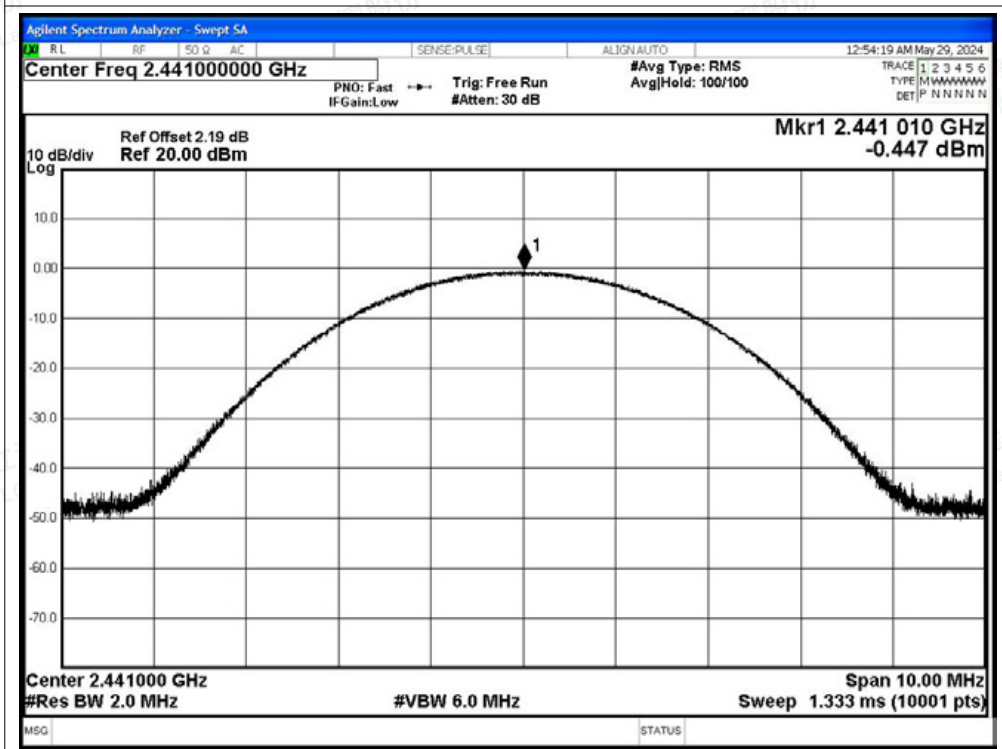




Power NVNT 3-DH5 2402MHz Ant1

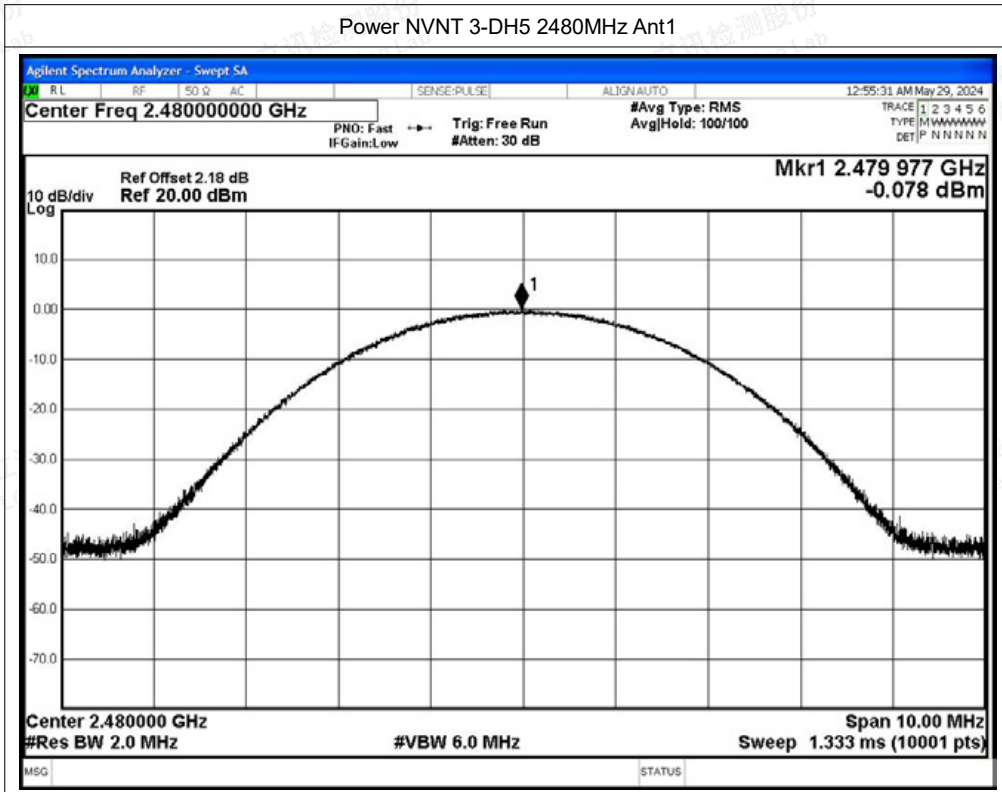


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT | 1-DH5 | Ant1 | 2402.006 | 2403.156 | 1.15 | 0.687 | Pass |
| NVNT | 2-DH5 | Ant1 | 2402.156 | 2403.156 | 1 | 0.877 | Pass |
| NVNT | 3-DH5 | Ant1 | 2402.16 | 2403.146 | 0.986 | 0.869 | Pass |

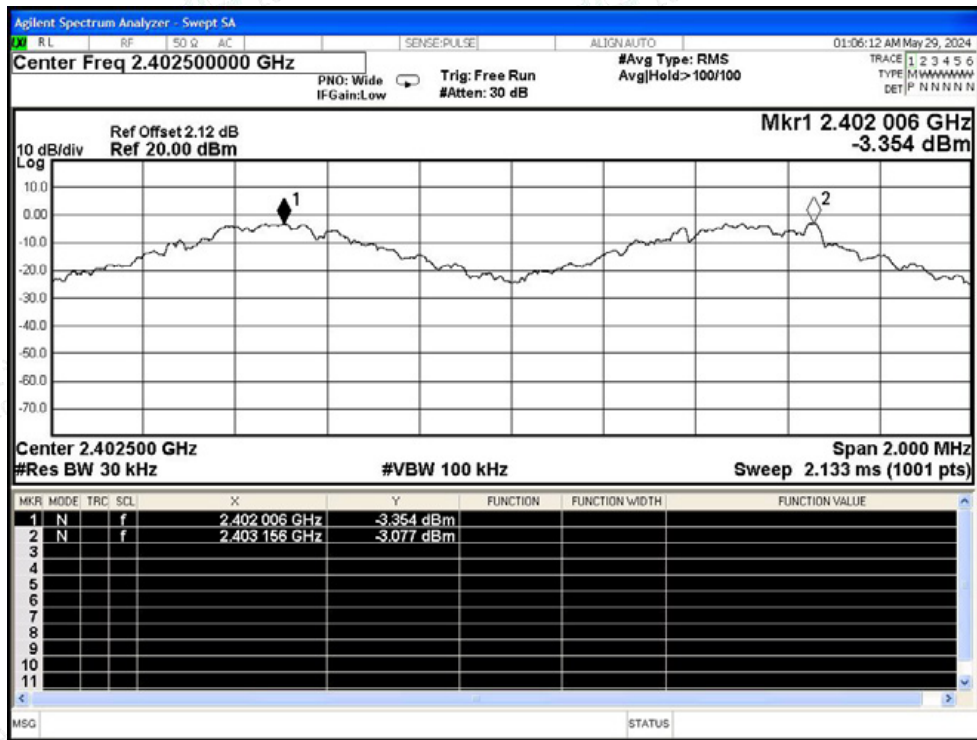


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

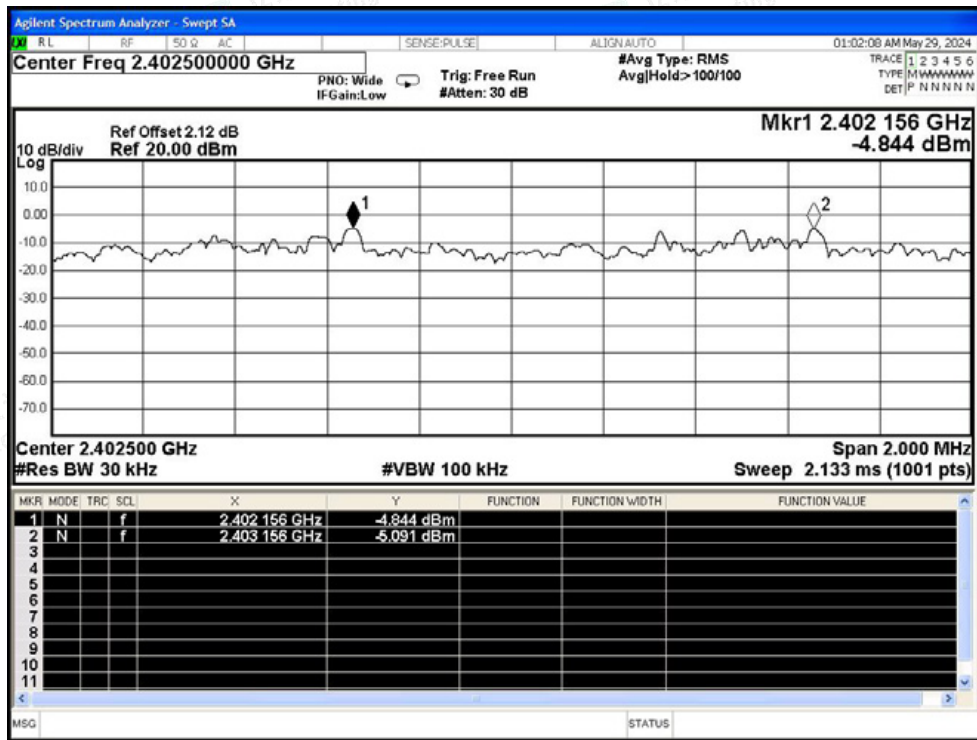


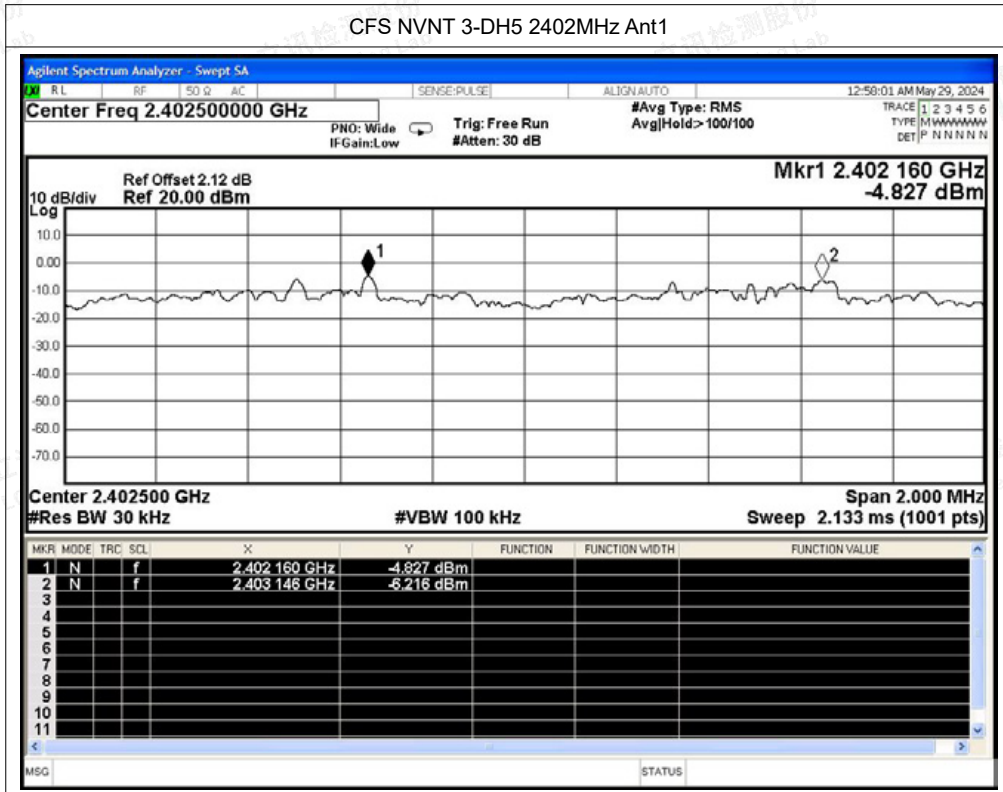
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

| Condition | Mode | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-----------------------|-------------|------------------|------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 2.881 | 296.743 | 103 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 2.885 | 300.04 | 104 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 2.886 | 291.486 | 101 | 31600 | 400 | Pass |

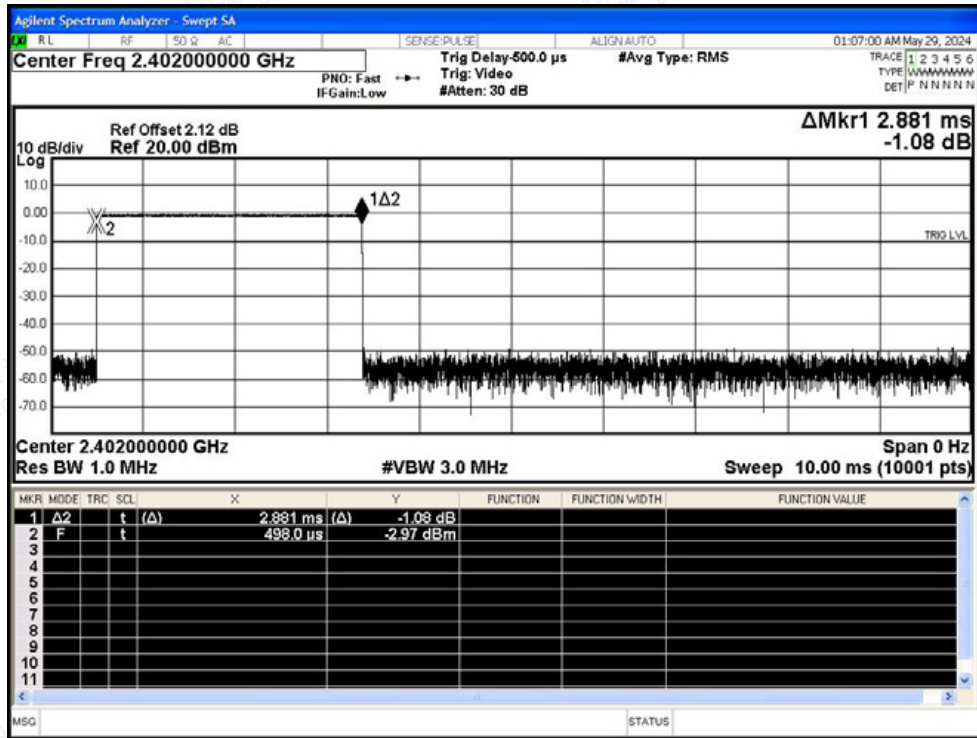


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Scan code to check authenticity

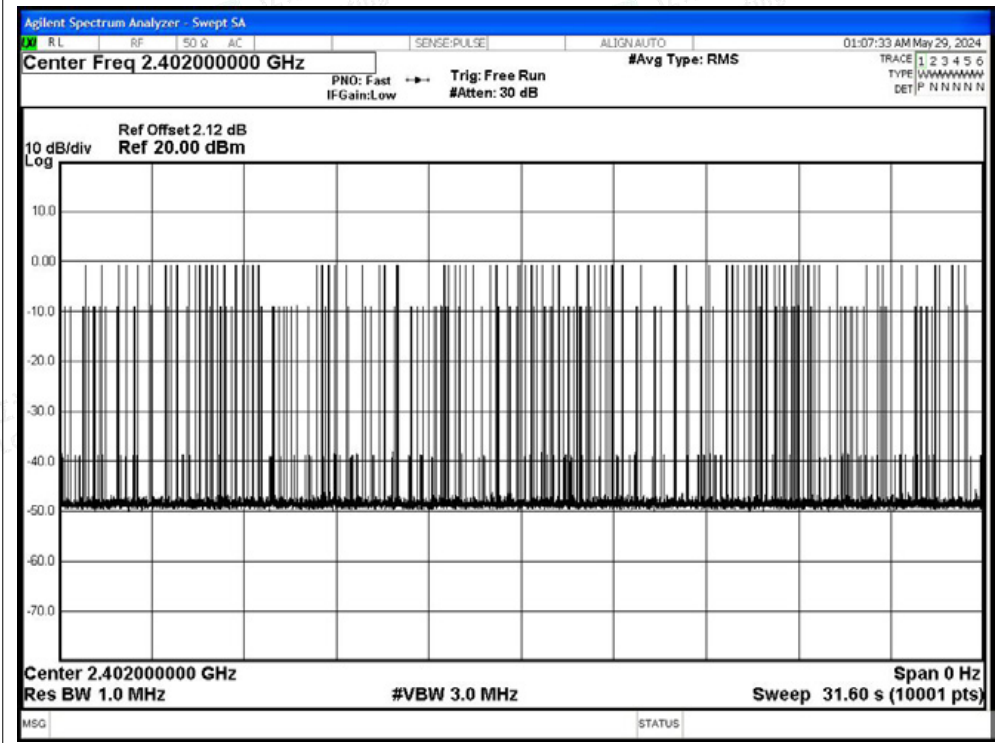


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

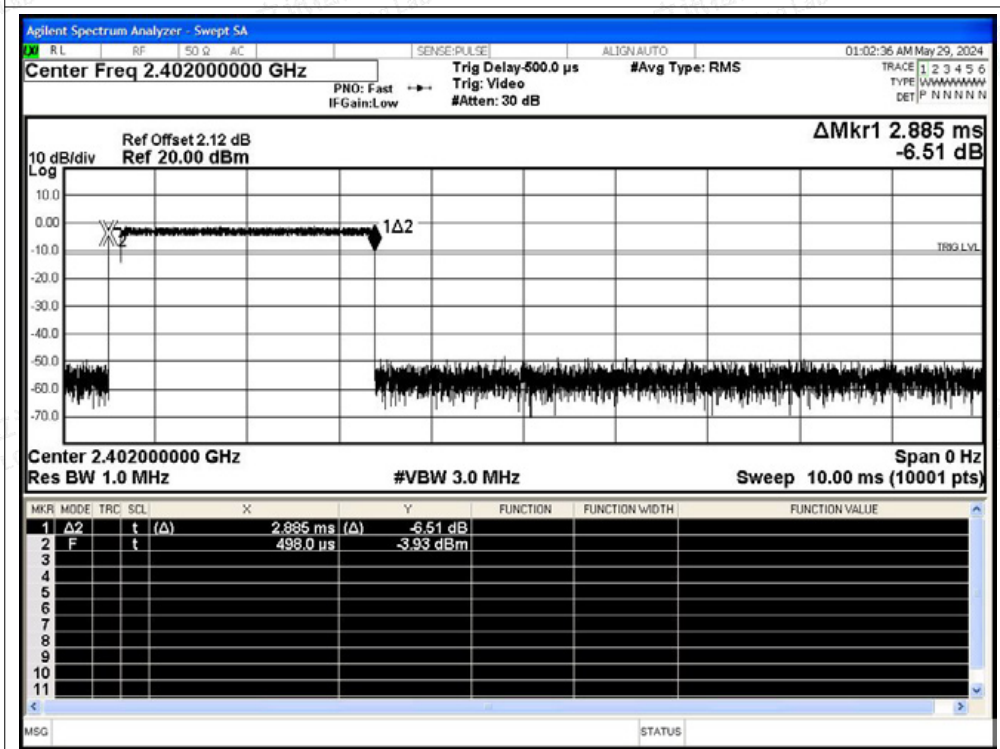


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

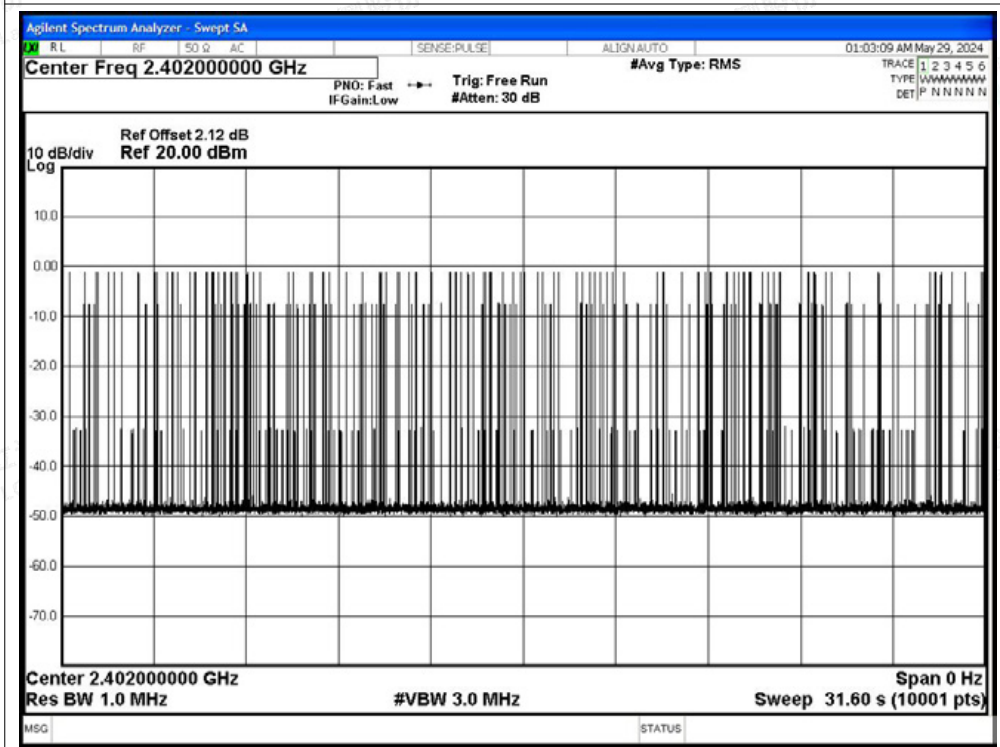




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

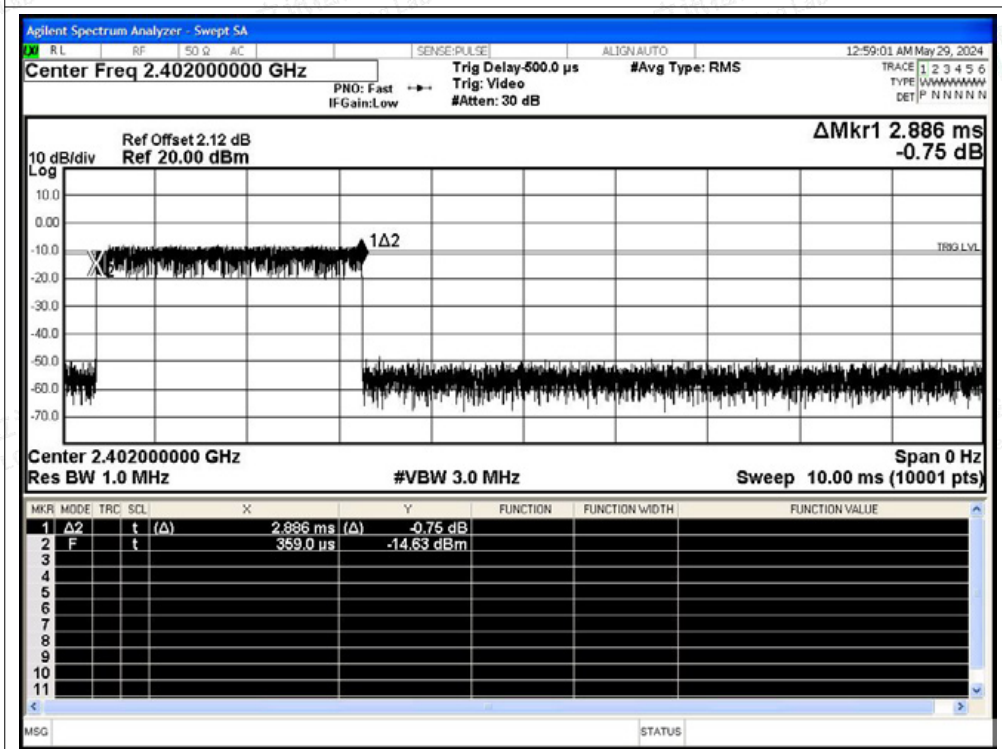


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

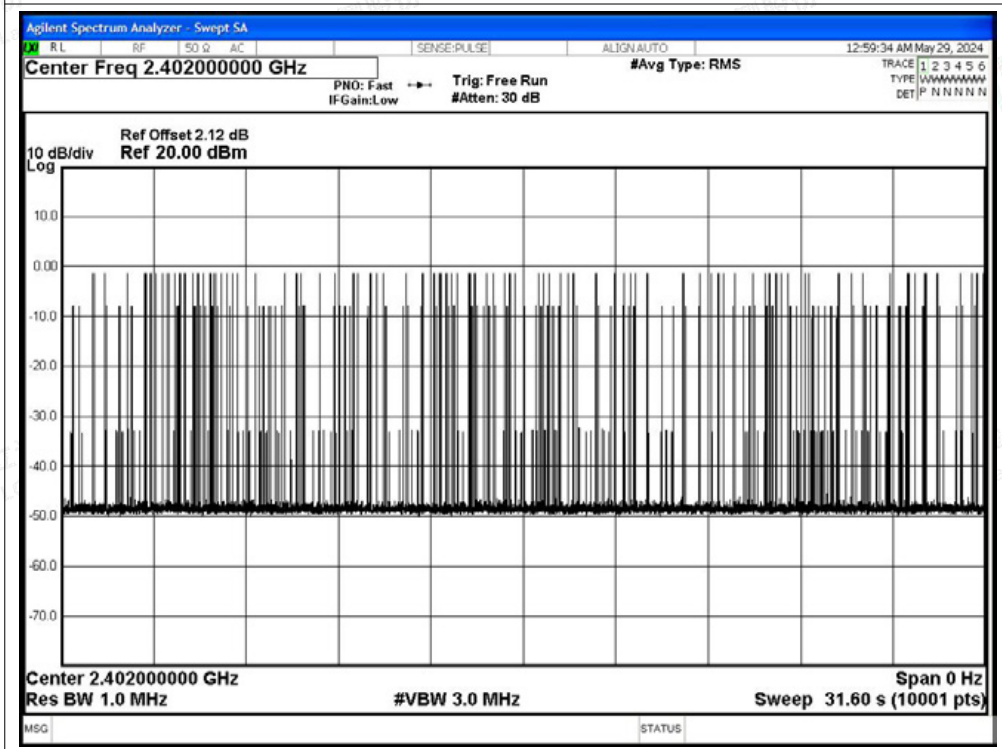




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

| Condition | Mode | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT | 1-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 2-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 3-DH5 | Ant1 | 79 | 15 | Pass |

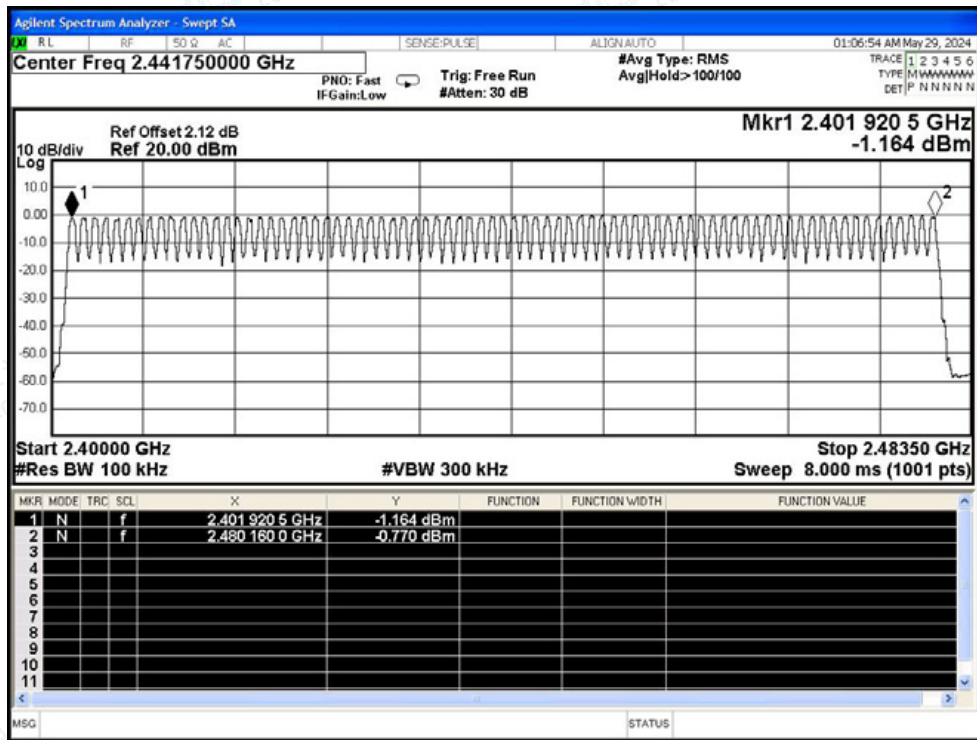


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Scan code to check authenticity

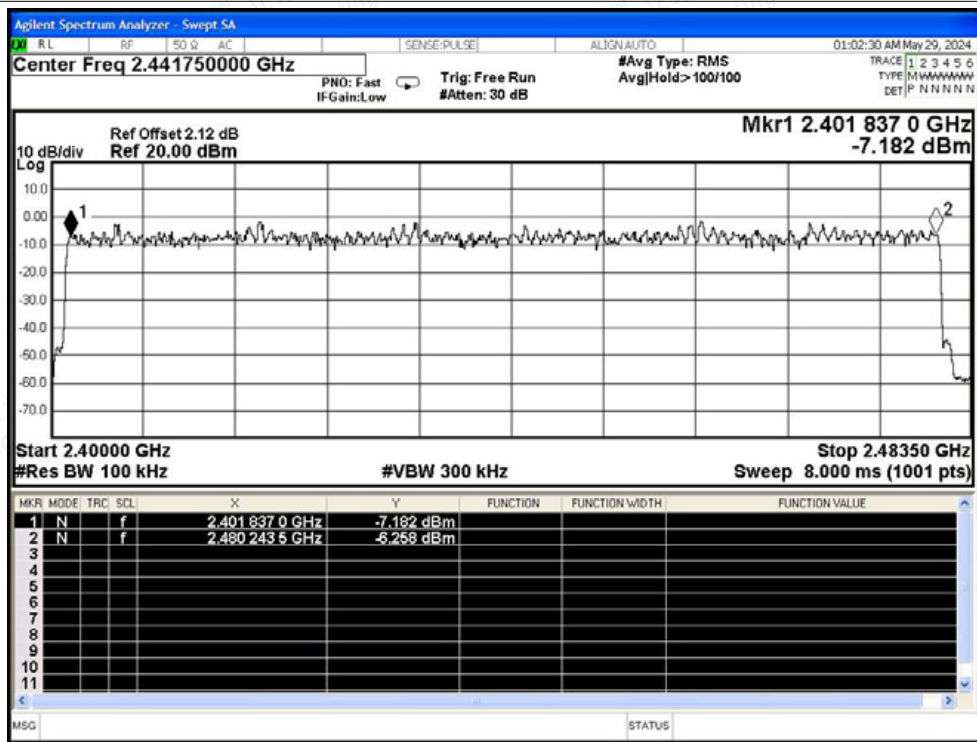


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

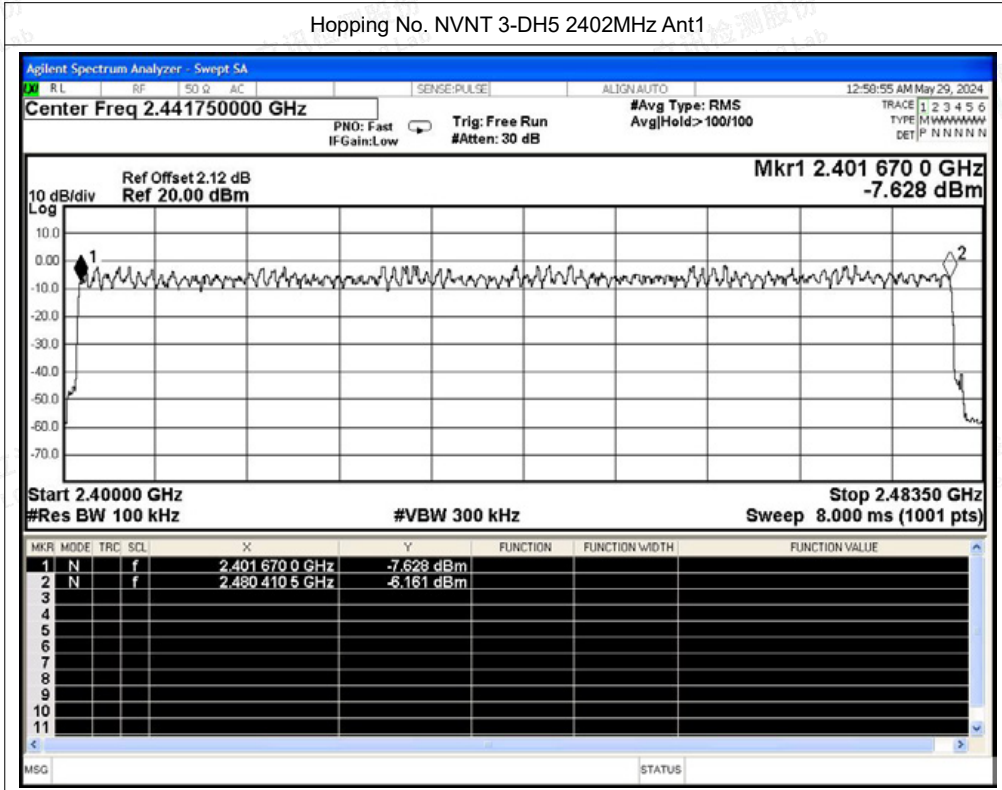


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

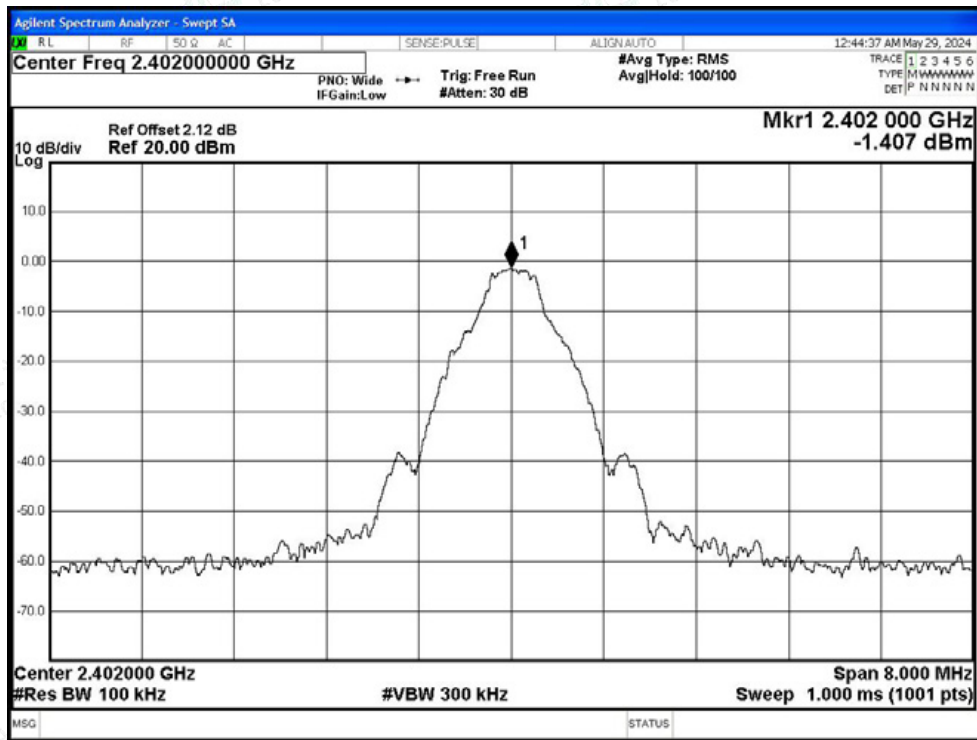
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | -55.6 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | -56.38 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | -50.96 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | -55.7 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | -52.15 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | -56.41 | -20 | Pass |



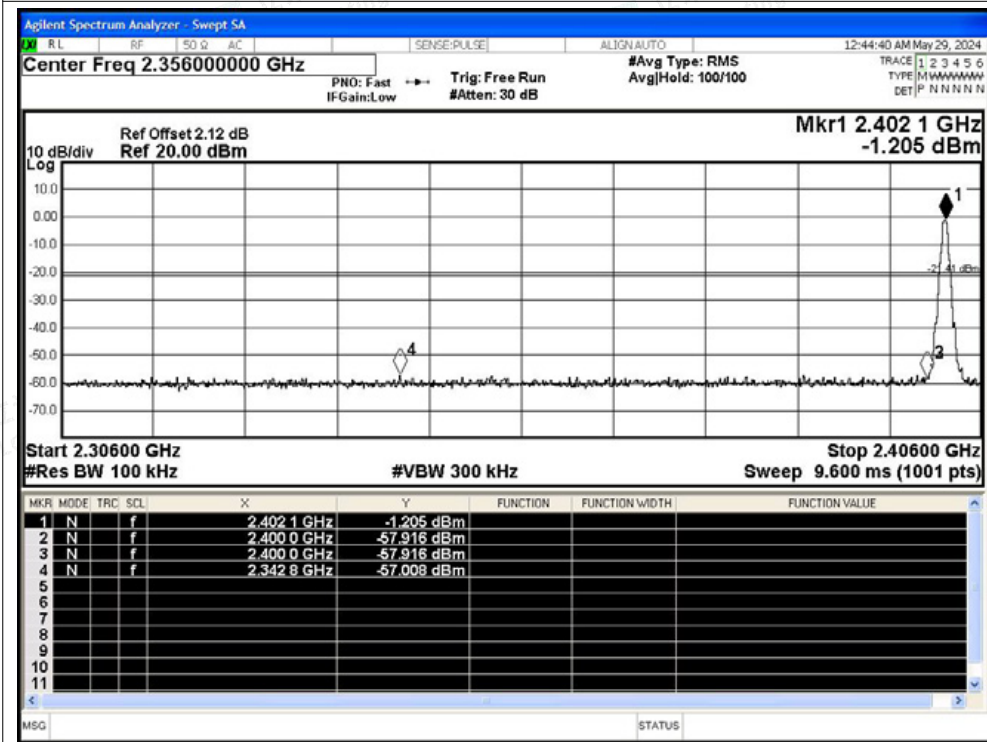


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

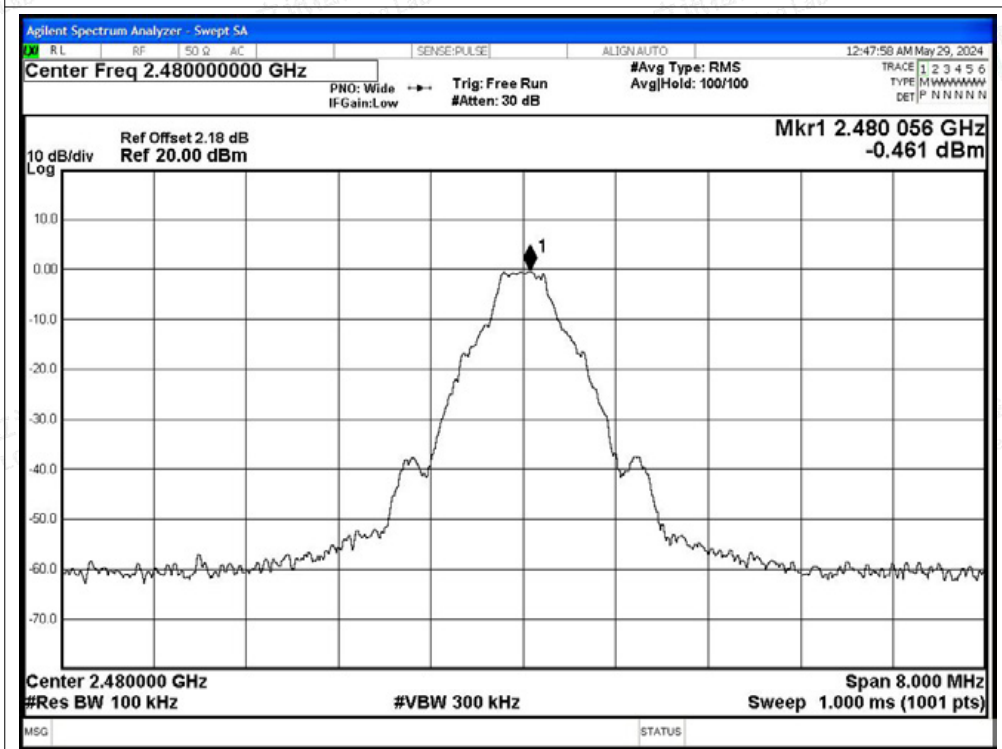


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

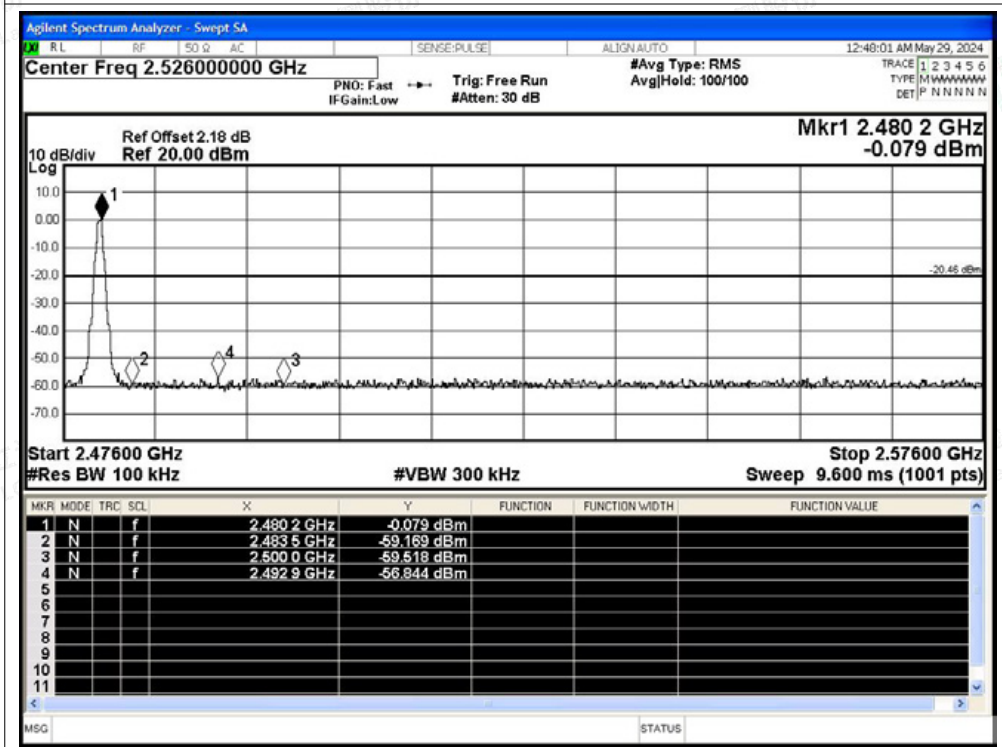




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

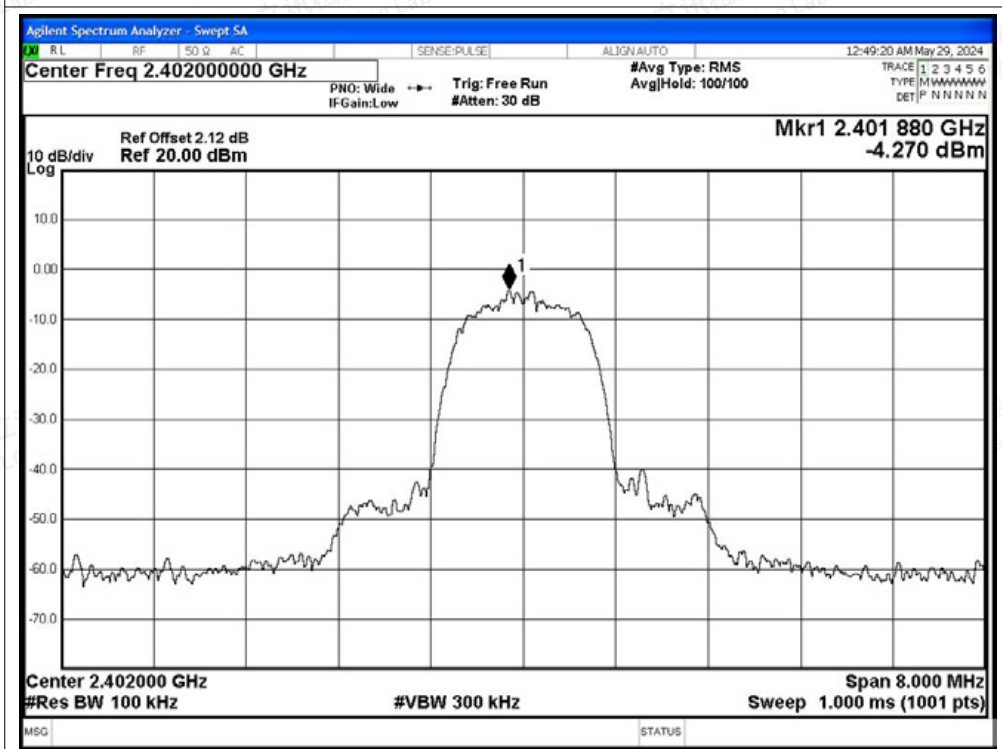


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

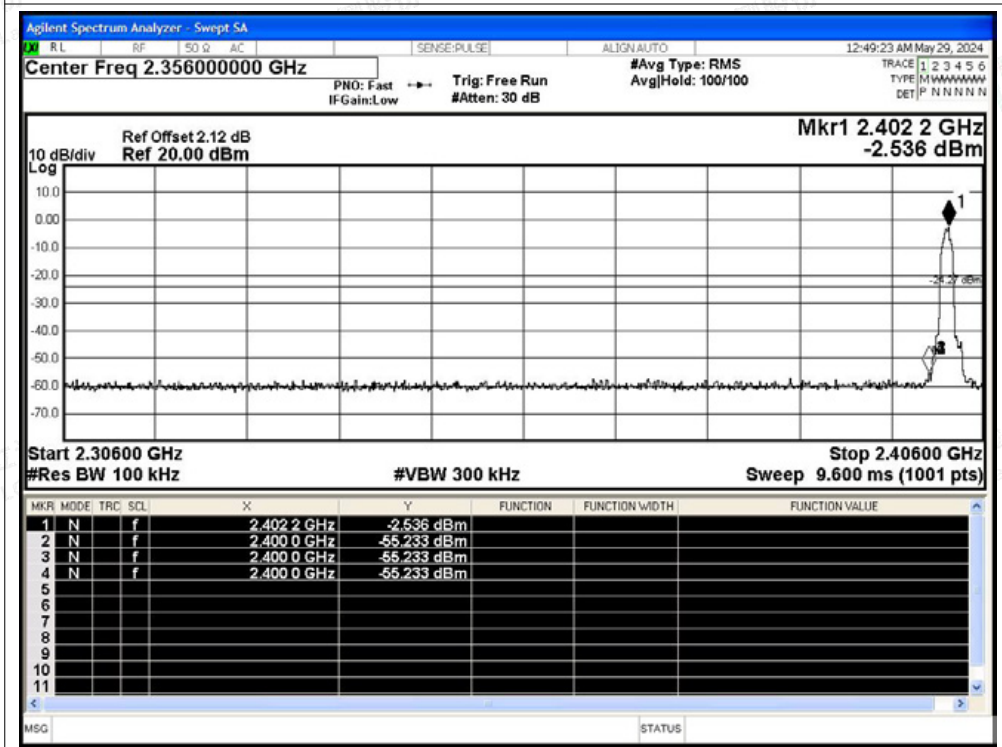




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

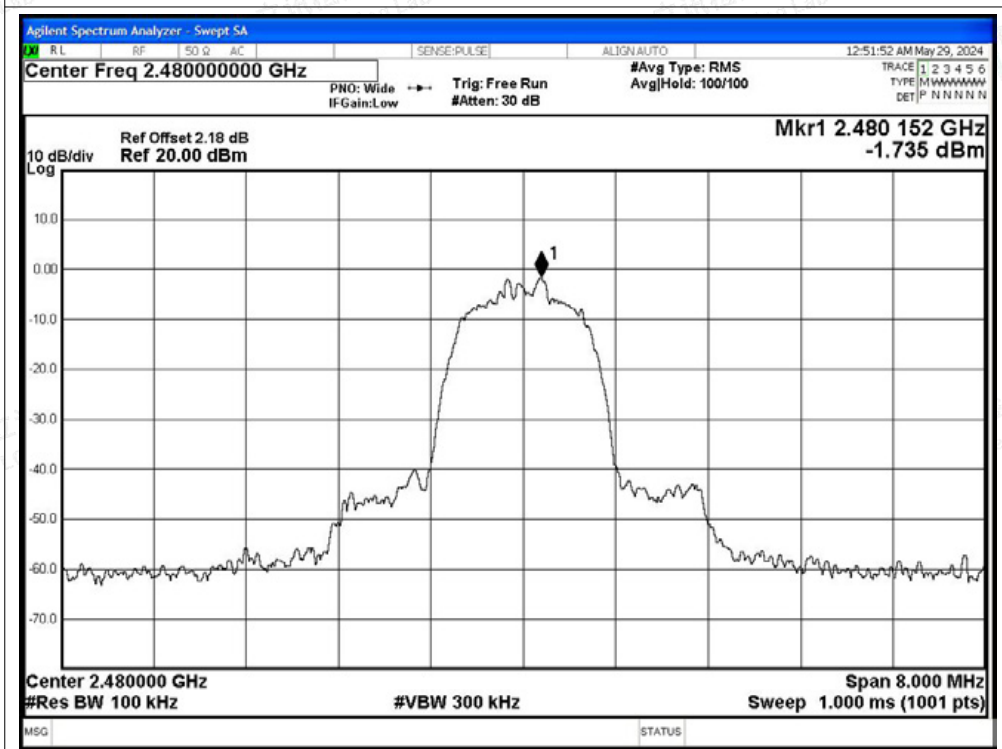


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

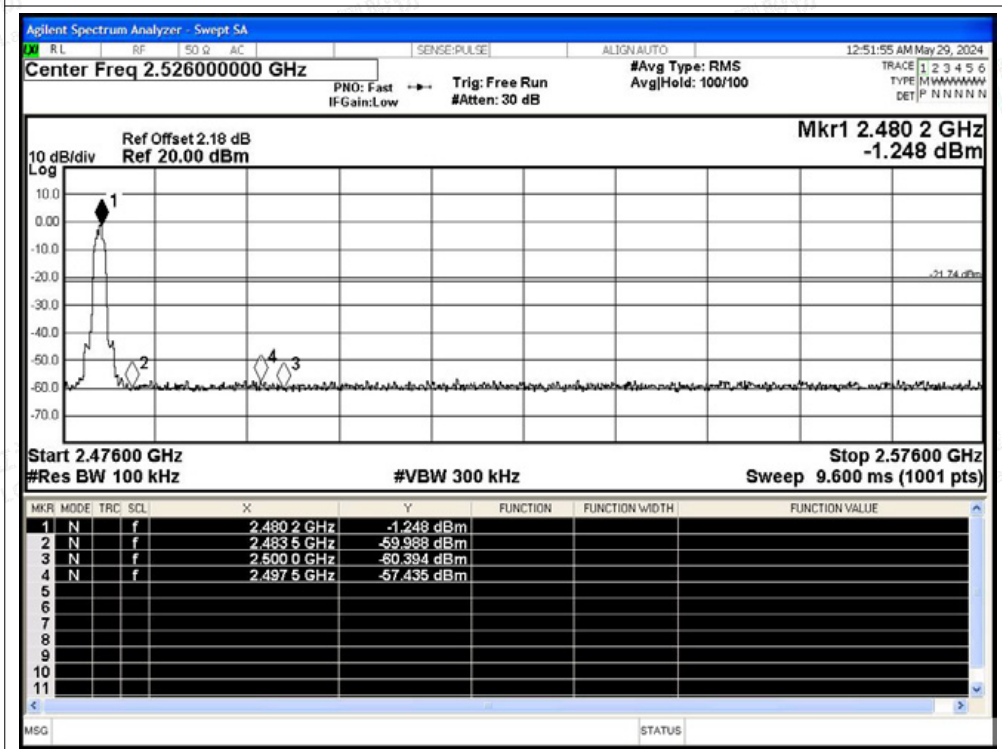




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

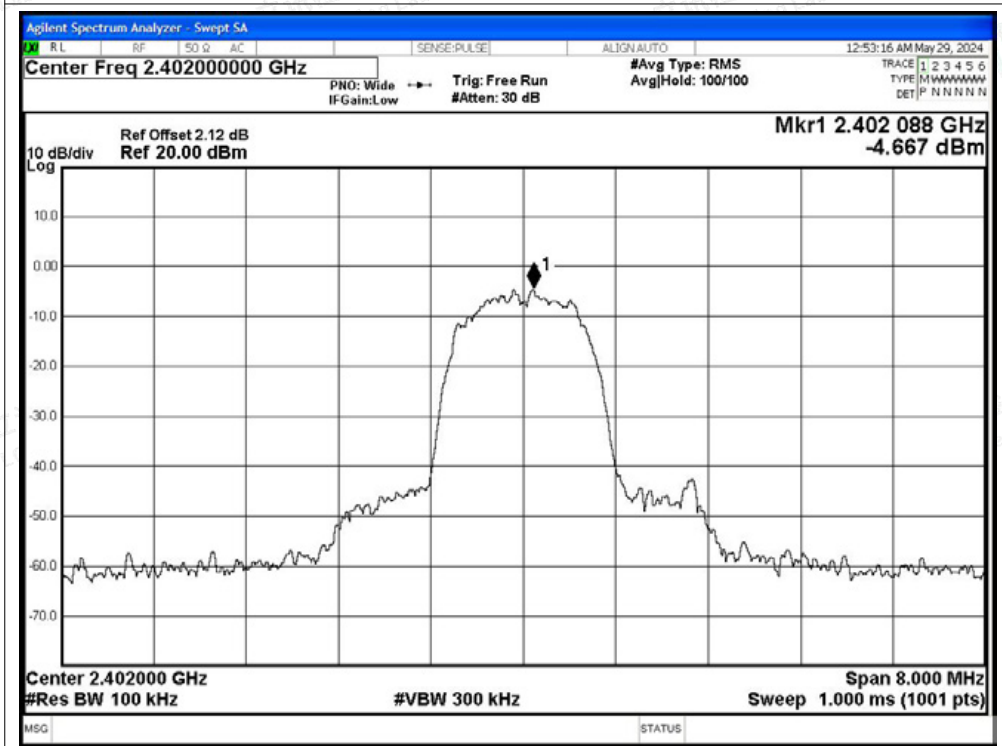


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

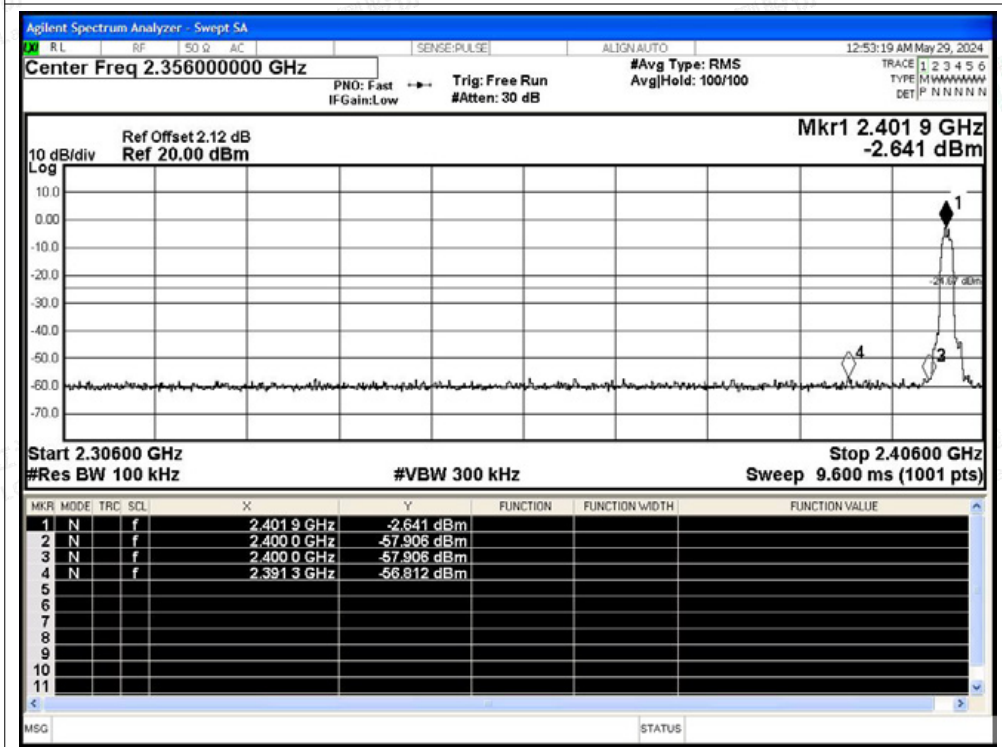




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

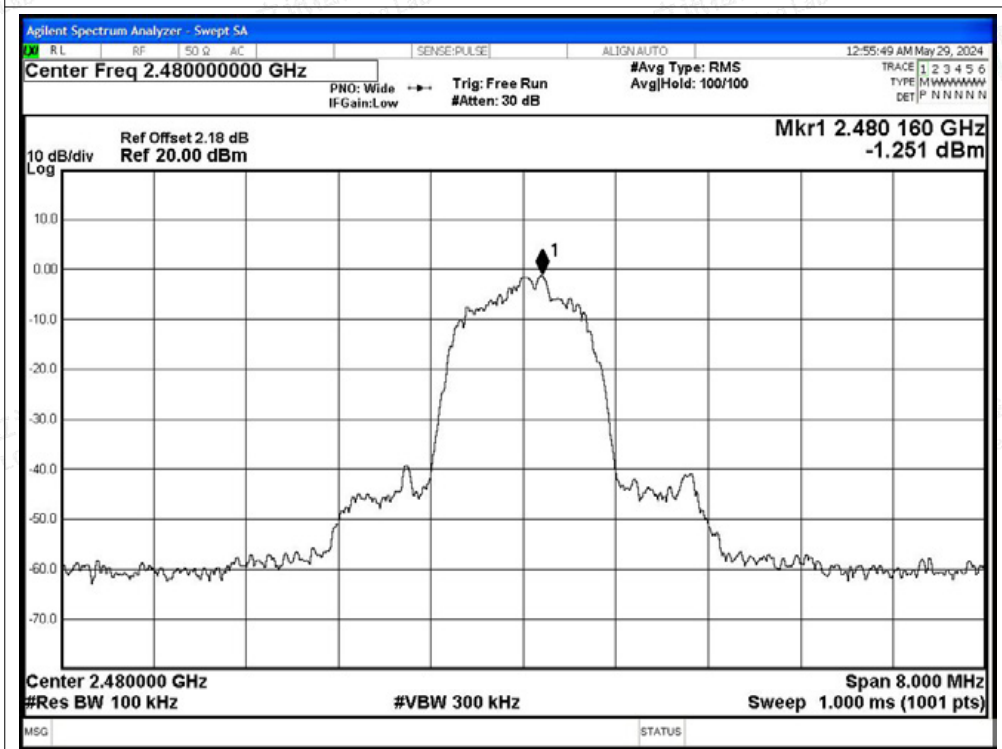


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

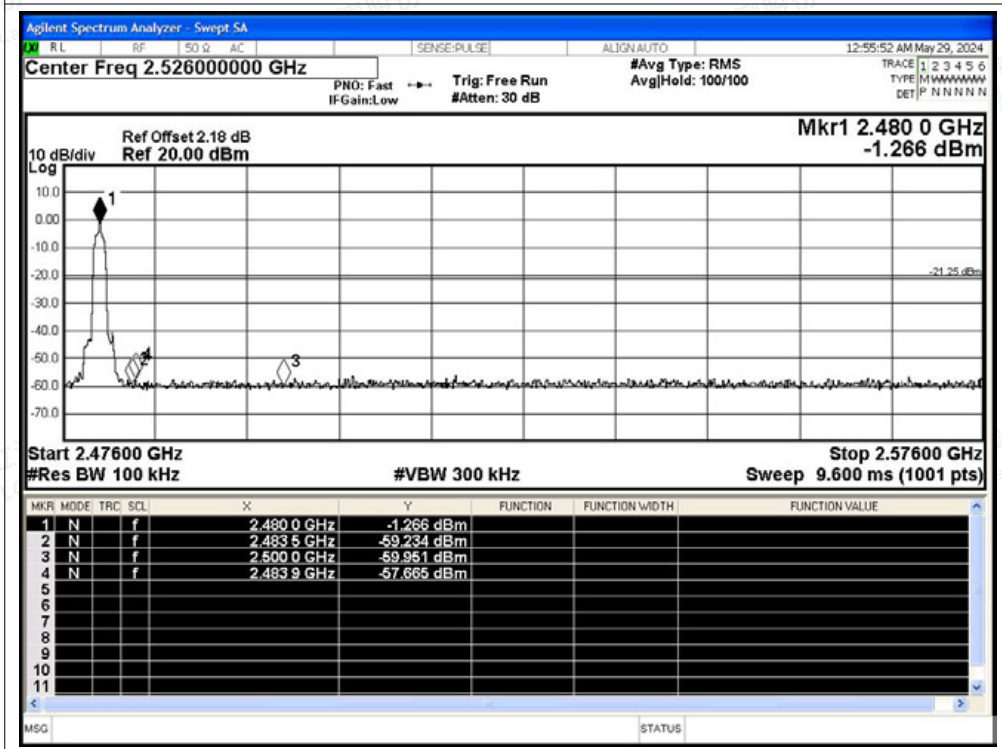




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

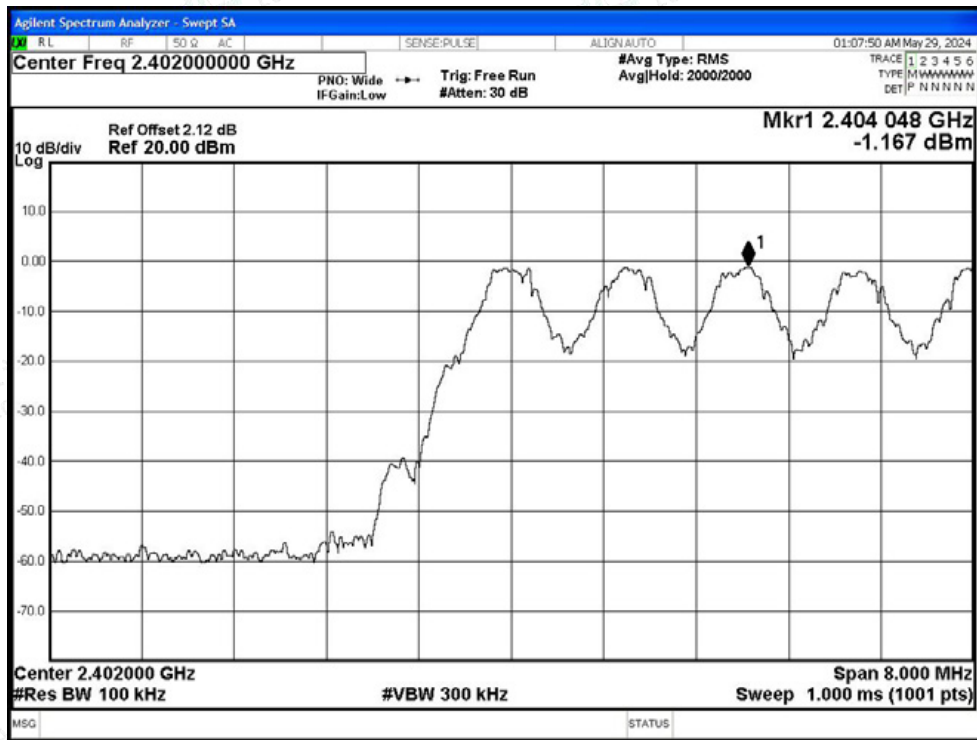
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | Hopping | -54.86 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | Hopping | -55.88 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | Hopping | -53.17 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | Hopping | -52.67 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | Hopping | -52.66 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | Hopping | -54.41 | -20 | Pass |



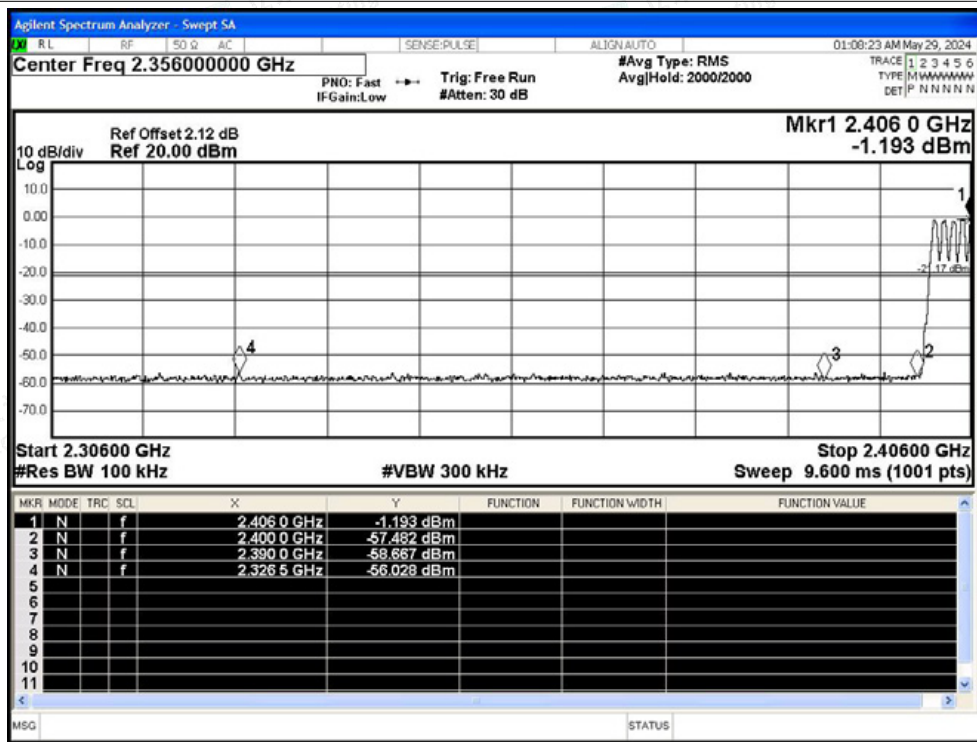


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

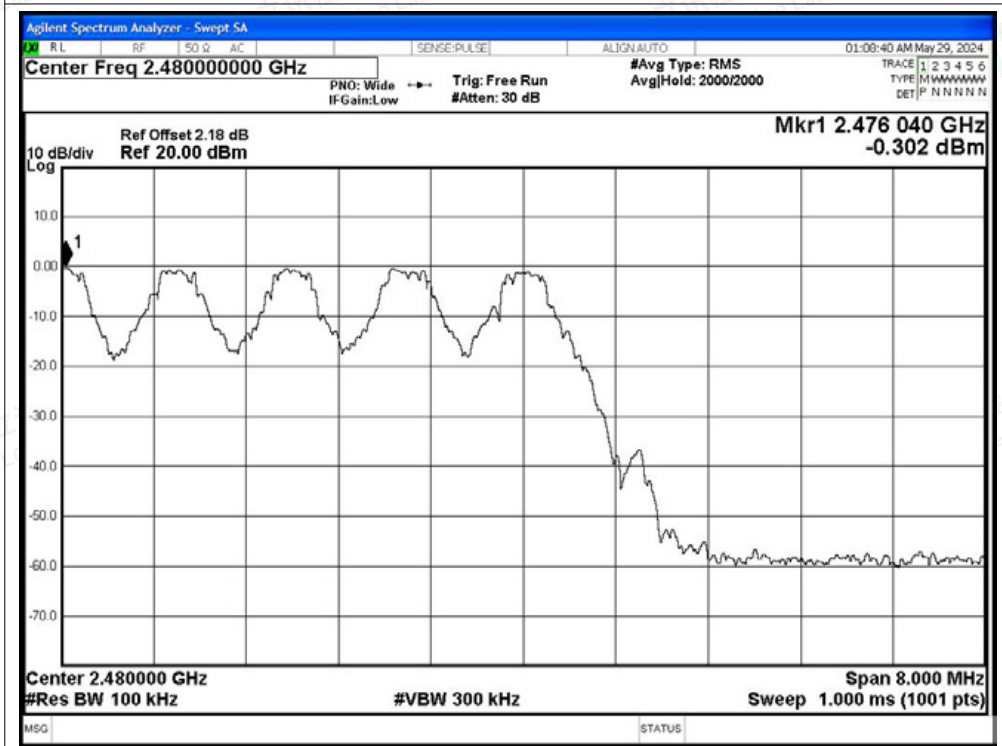


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

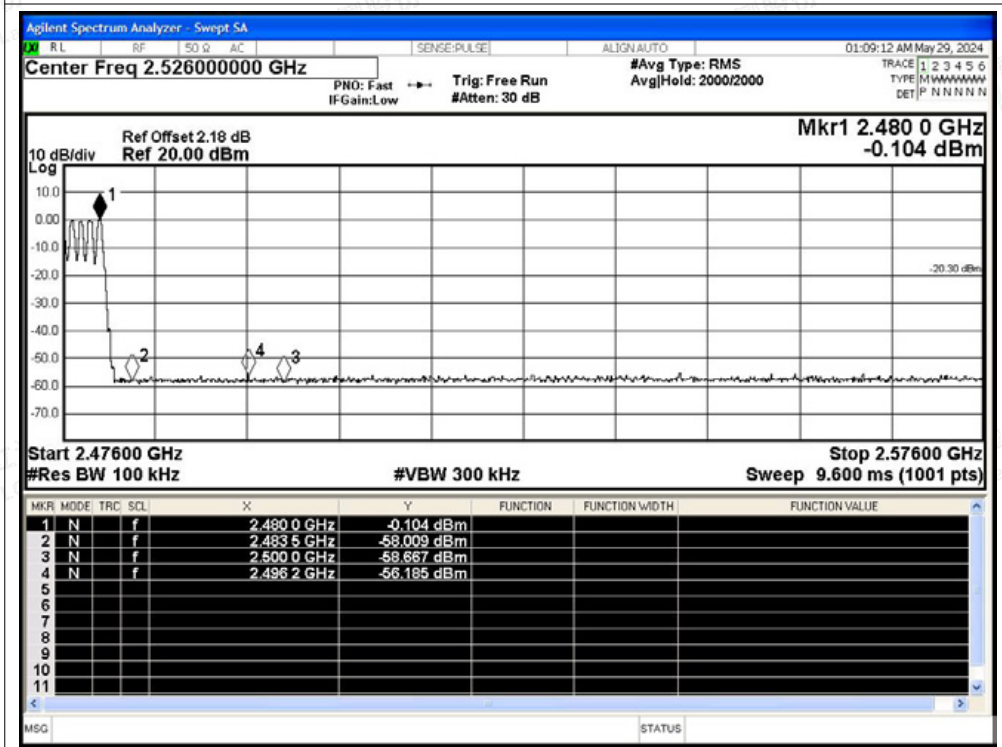




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

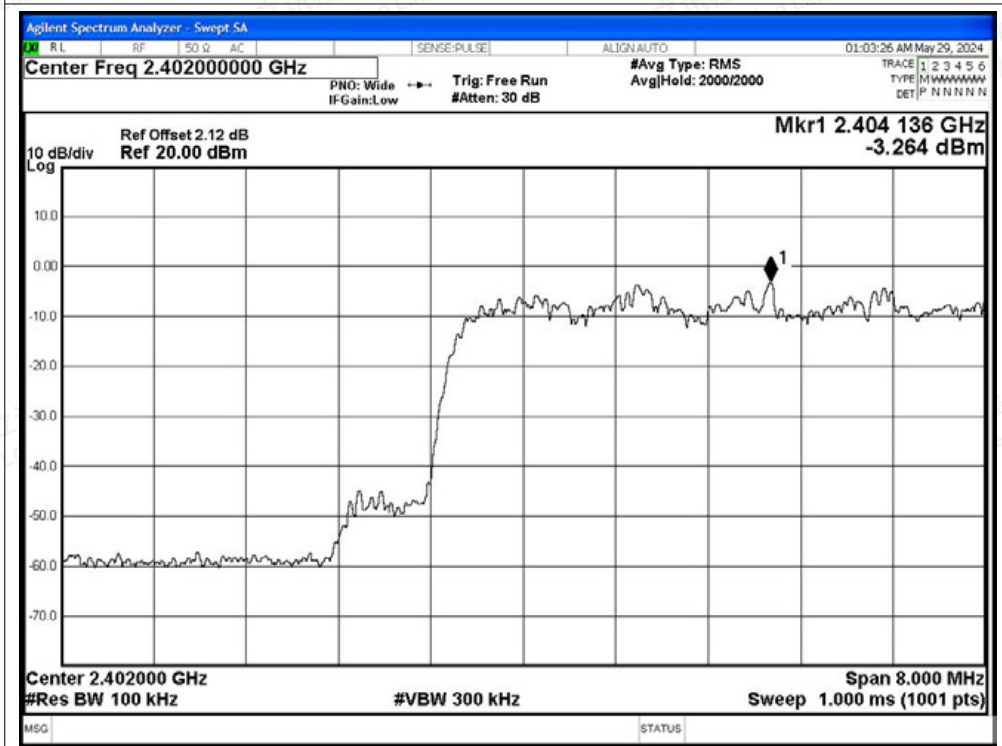


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

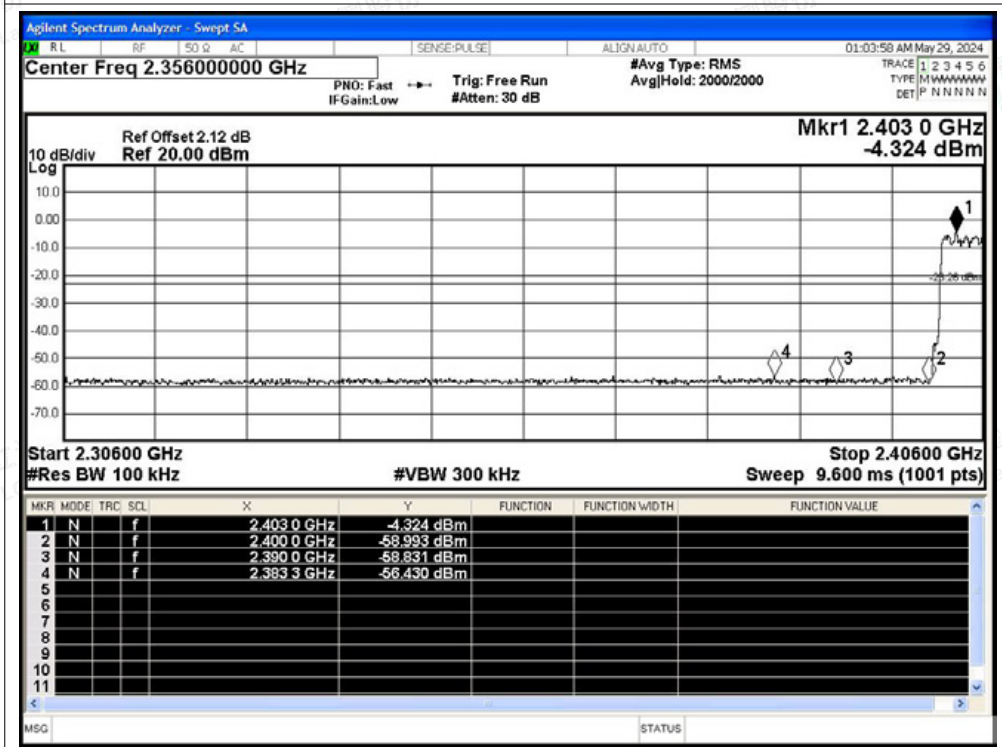




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

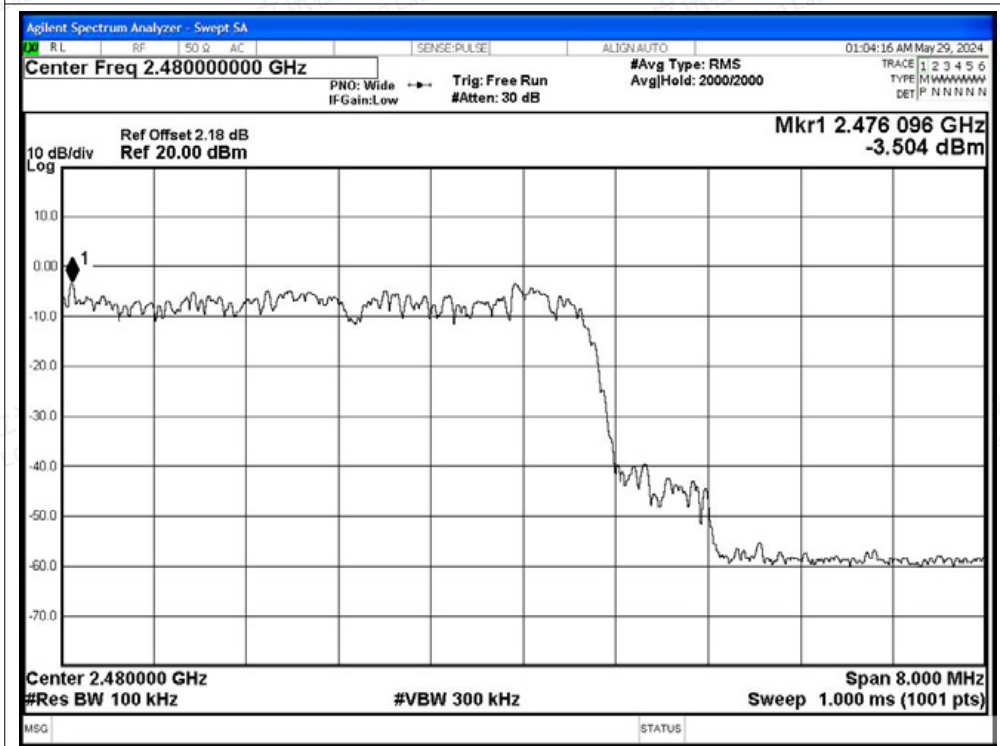


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

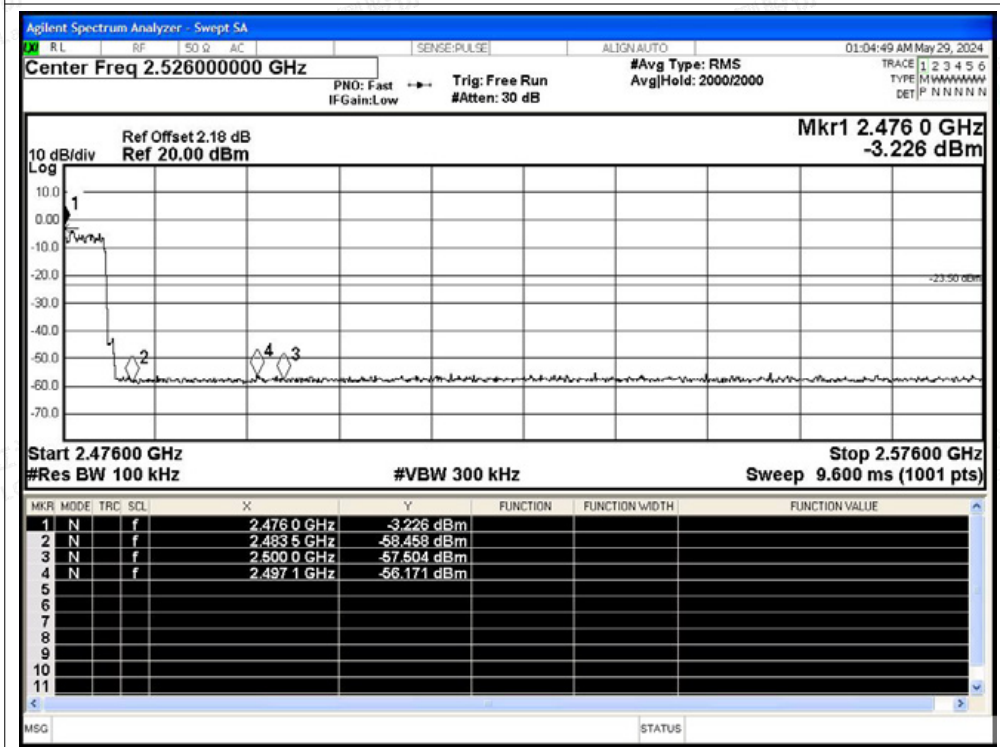




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

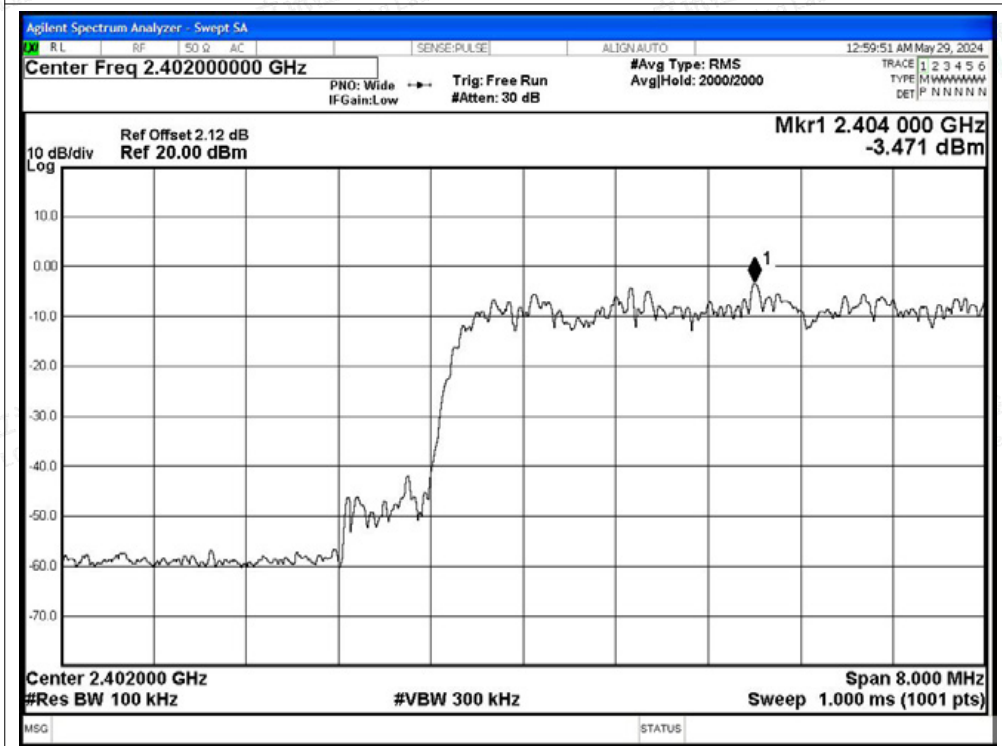


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

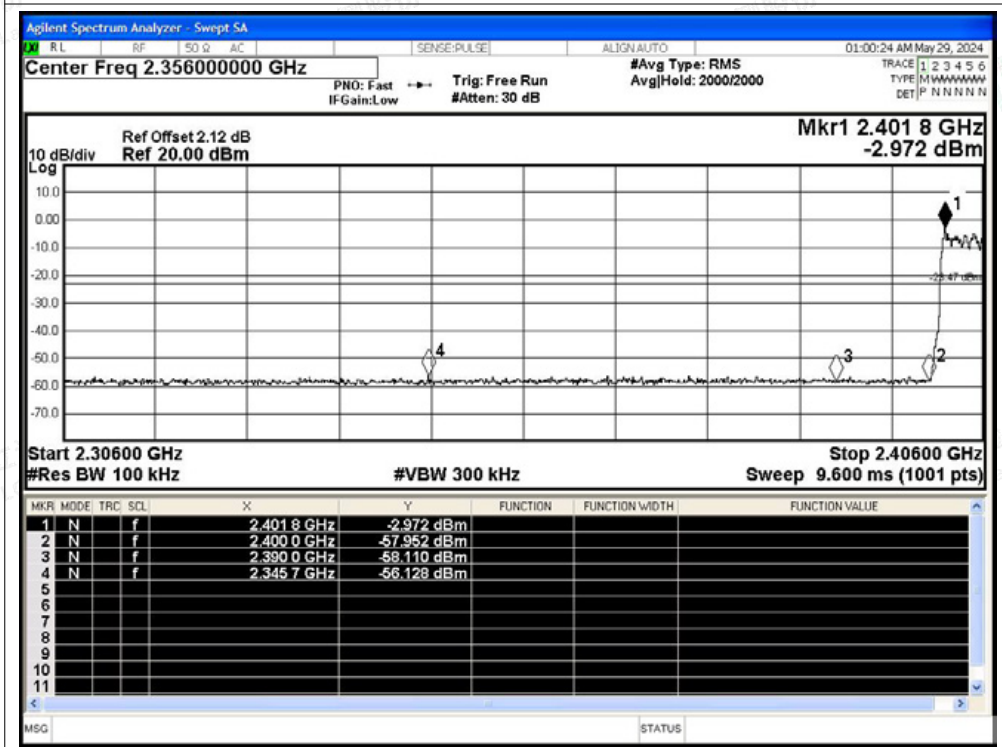




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

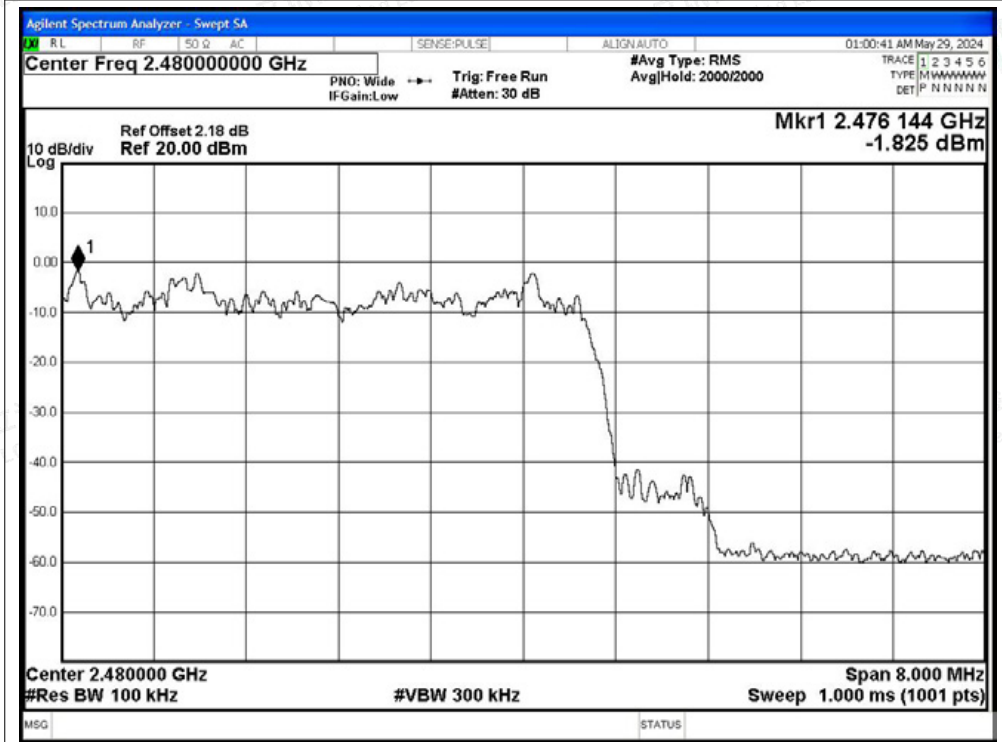


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

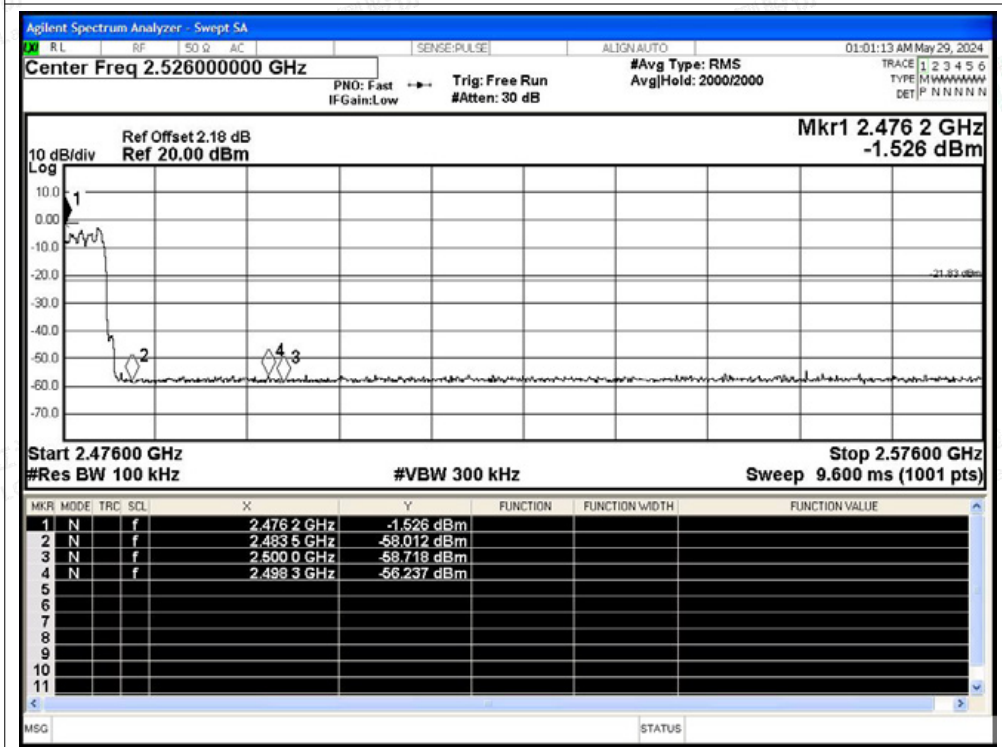




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





A.7 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | -53.83 | -20 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | -54.7 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | -55.08 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | -52.91 | -20 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | -54.12 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | -53.6 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | -53.53 | -20 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | -53.42 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | -53.52 | -20 | Pass |

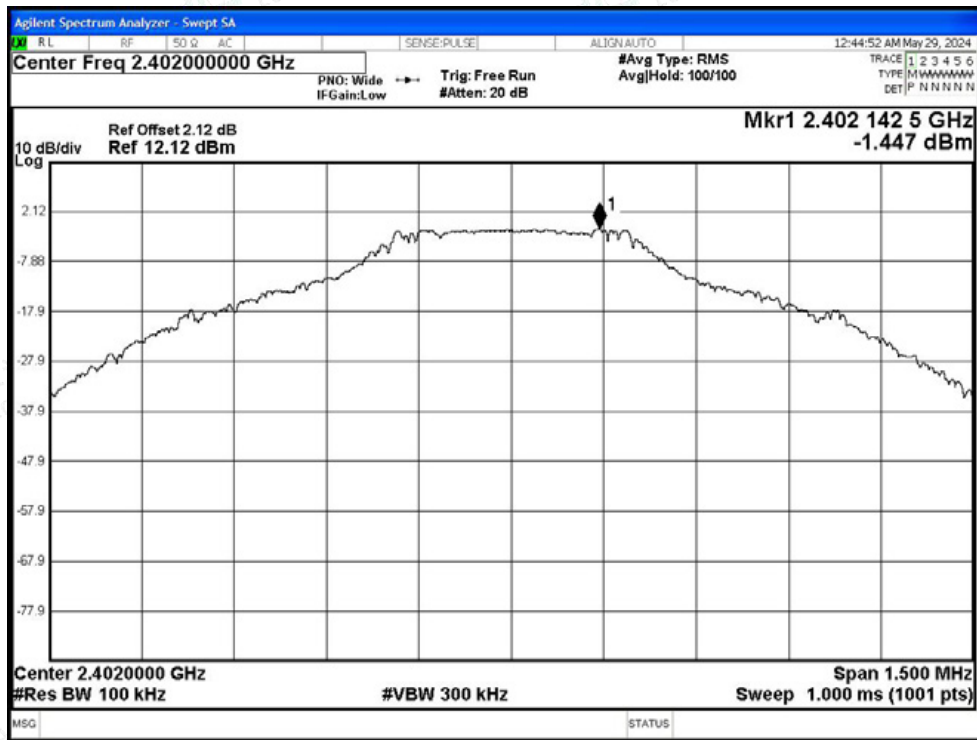


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Scan code to check authenticity

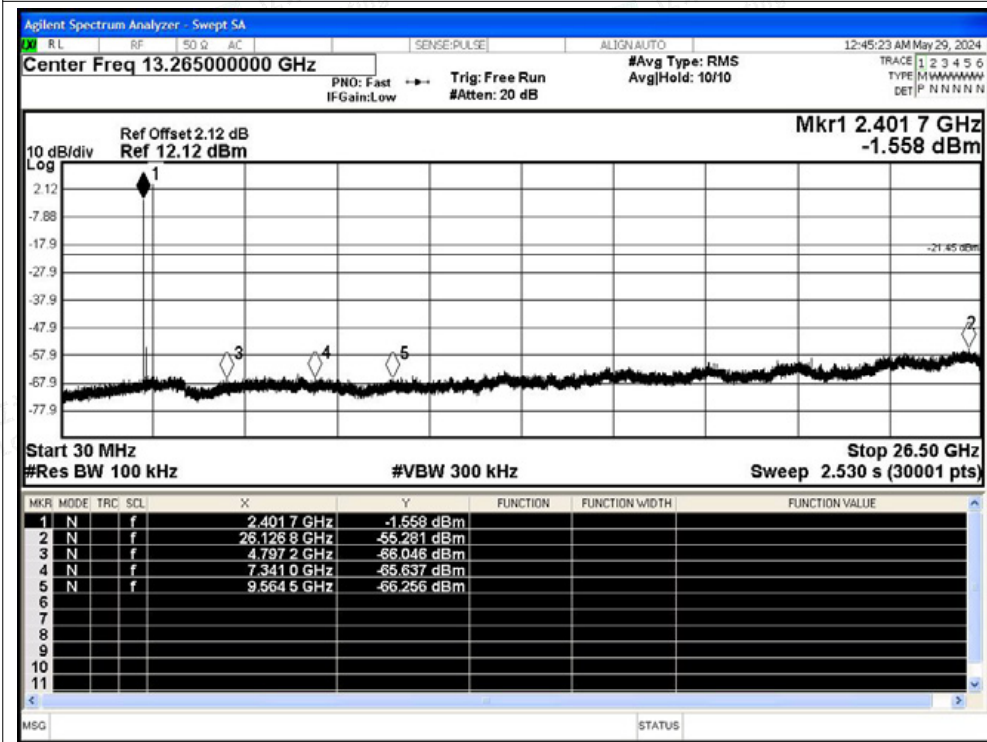


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

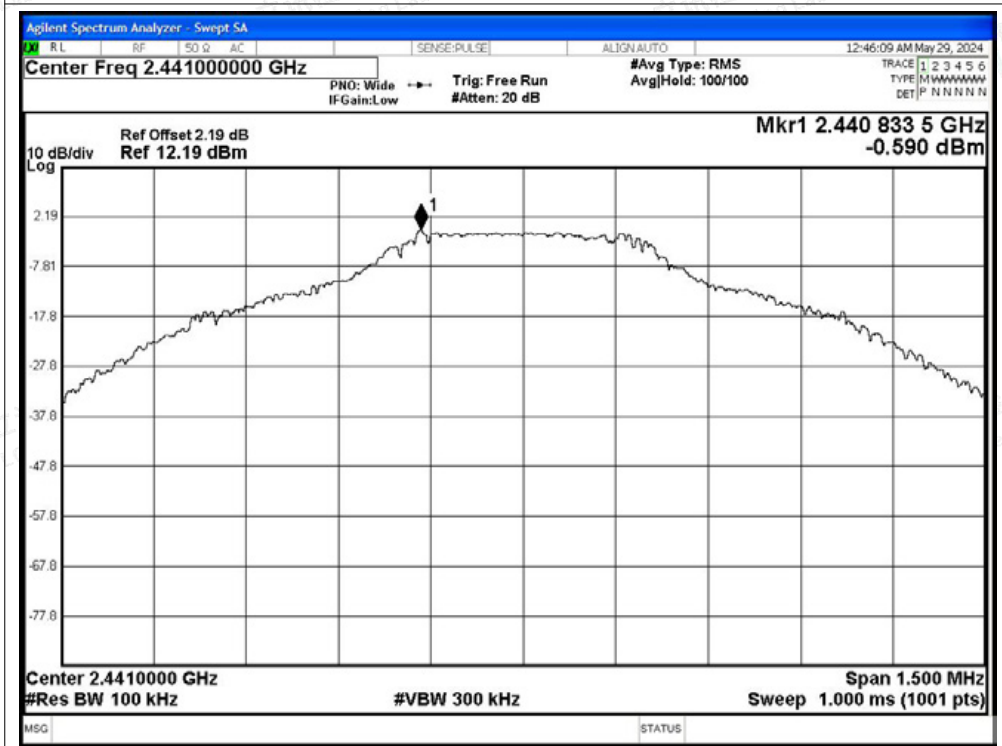


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

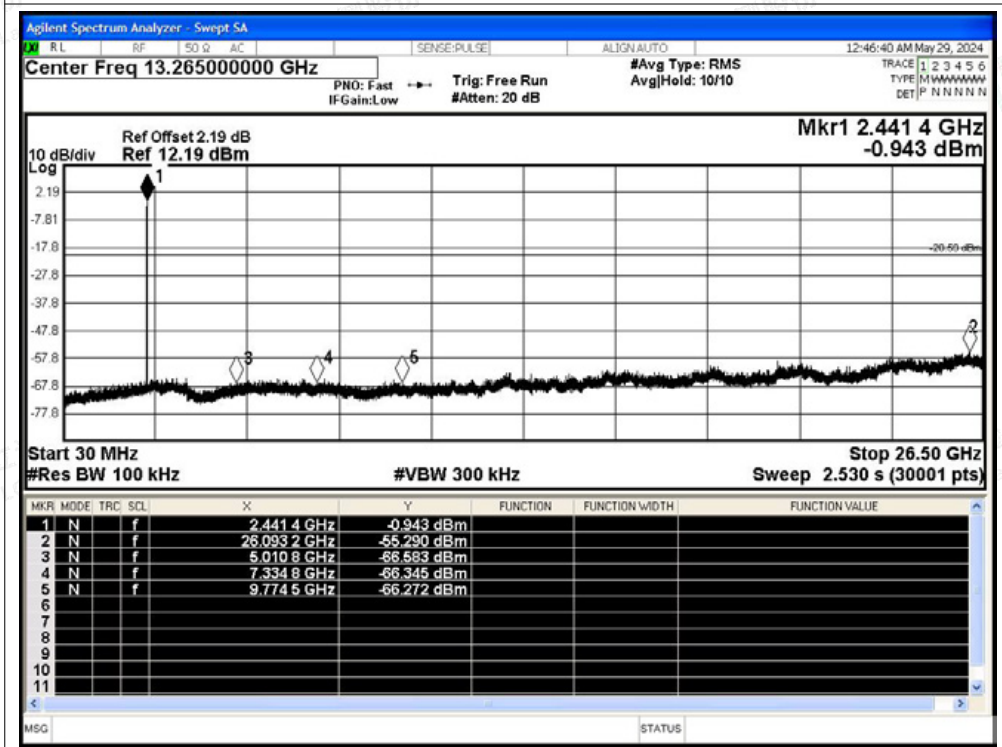




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

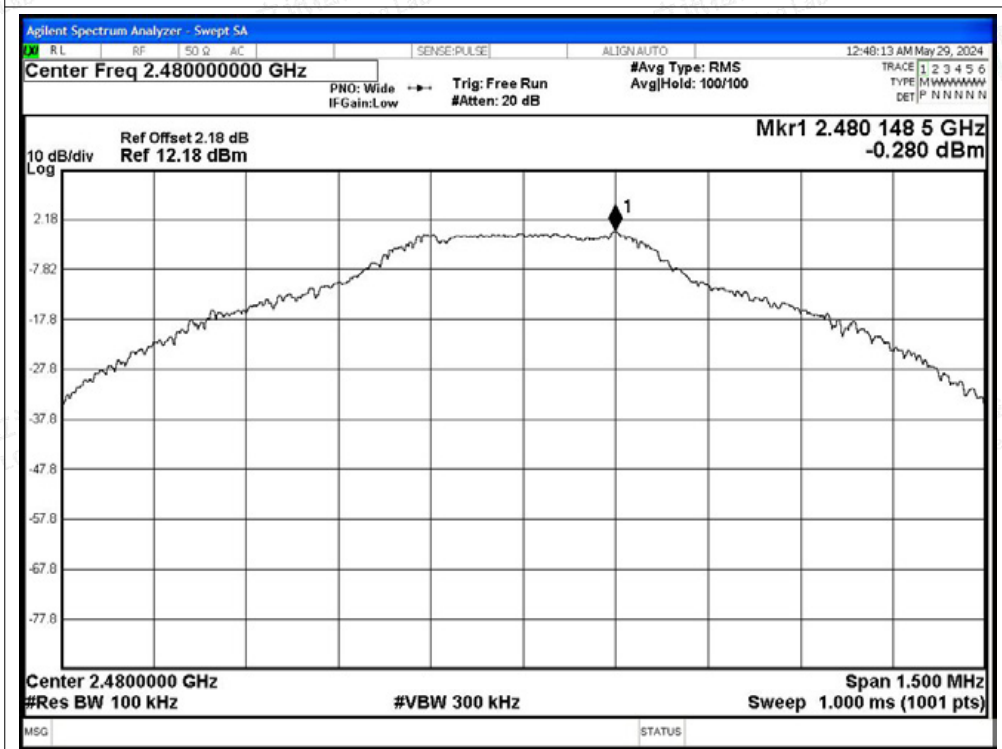


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

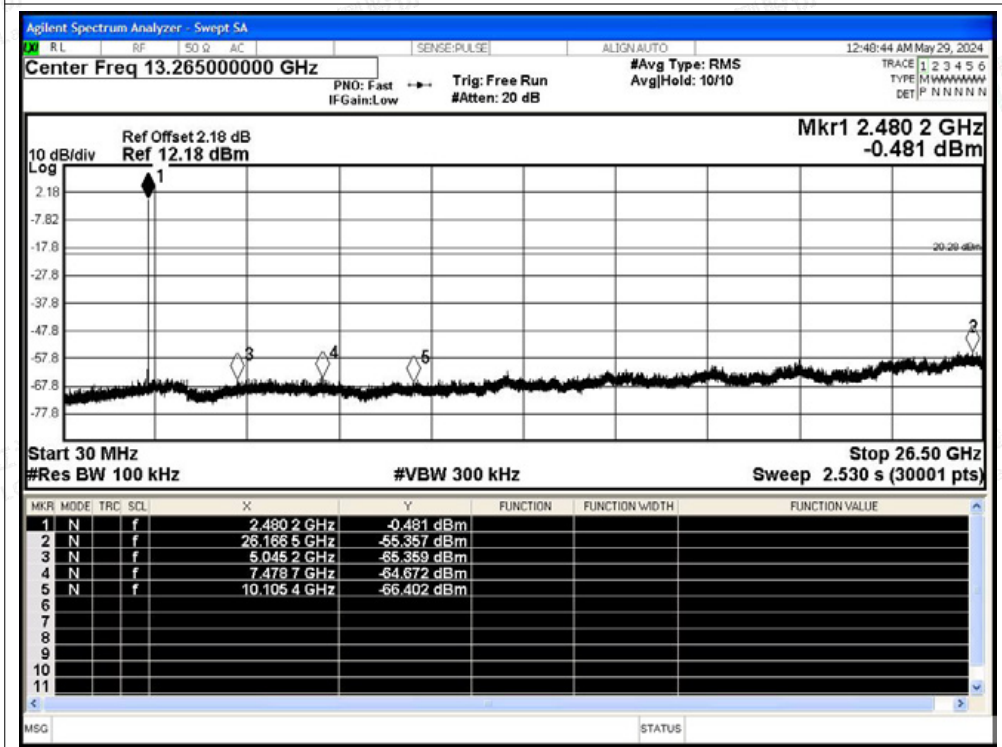




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

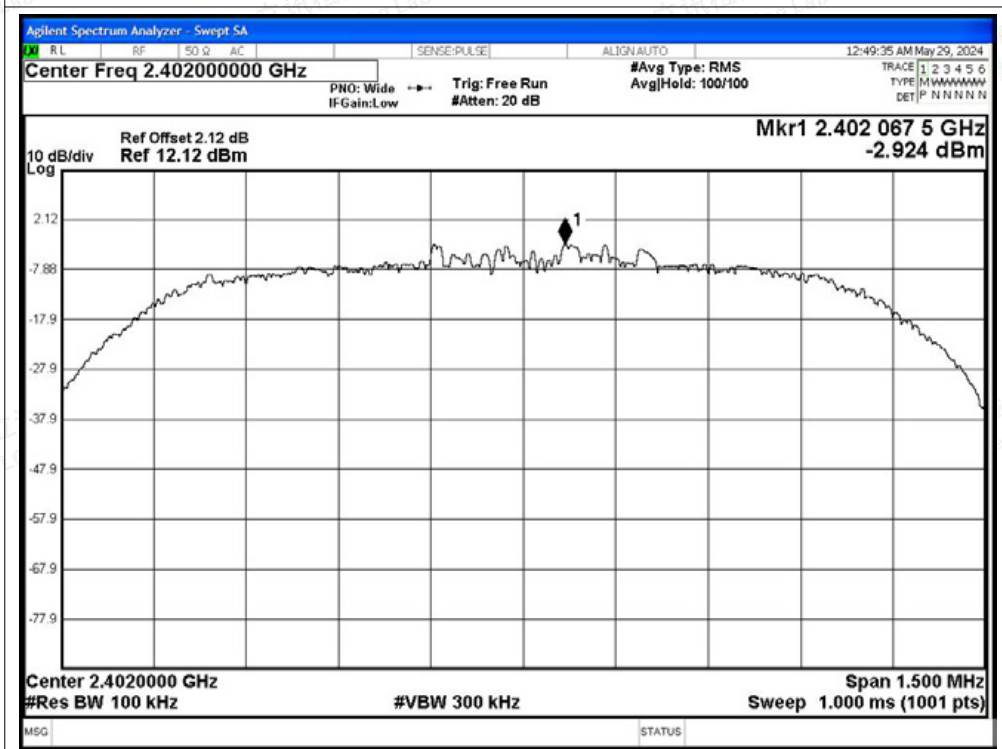


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission





Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

