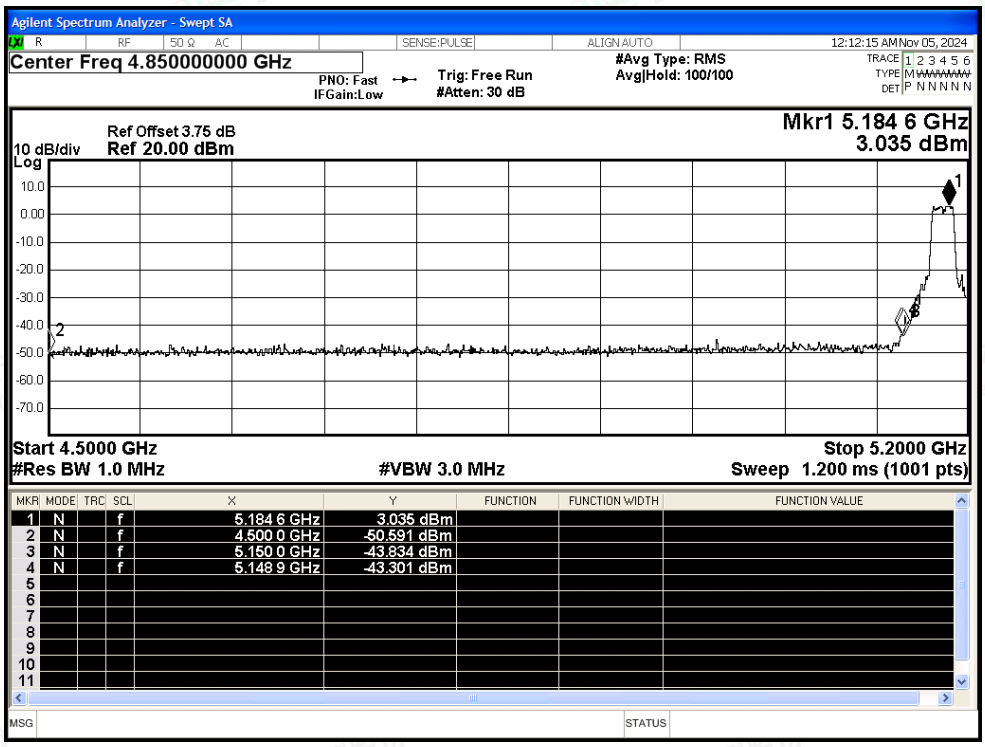
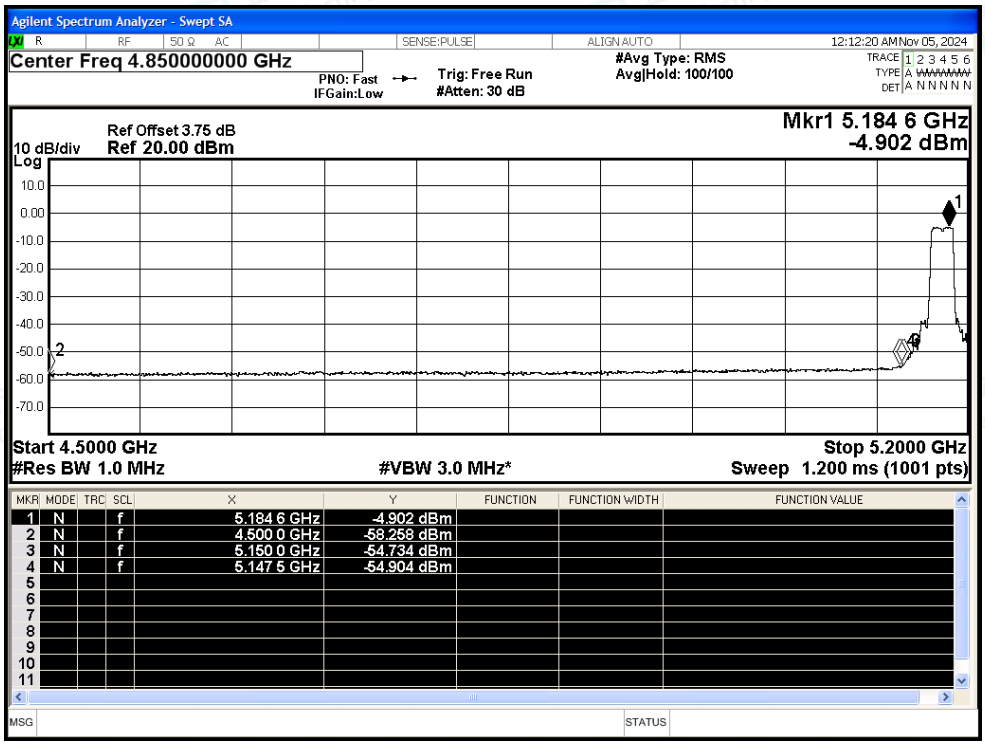
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NVNT | ax20 | 5240 | Ant1 | 5350 | -57.83 | 2.92 | 0.12 | 40.44 | Average | 54 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5366.4 | -46.38 | 2.92 | - | 51.77 | Peak | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5350.56 | -56.72 | 2.92 | 0.12 | 41.55 | Average | 54 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5460 | -49.79 | 2.92 | - | 48.36 | Peak | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5460 | -58.05 | 2.92 | 0.12 | 40.22 | Average | 54 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 4500 | -50.44 | 2.92 | - | 47.71 | Peak | 68.2 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 4500 | -58.54 | 2.92 | 0.12 | 39.73 | Average | 54 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5149.7 | -39.4 | 2.92 | - | 58.75 | Peak | 68.2 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5149.7 | -51.66 | 2.92 | 0.12 | 46.61 | Average | 54 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5150 | -39.4 | 2.92 | - | 58.75 | Peak | 68.2 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5150 | -51.66 | 2.92 | 0.12 | 46.61 | Average | 54 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5350 | -48.16 | 2.92 | - | 49.99 | Peak | 68.2 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5350 | -57.57 | 2.92 | 0.12 | 40.7 | Average | 54 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5368.47 | -47.12 | 2.92 | - | 51.03 | Peak | 68.2 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5360.64 | -57.07 | 2.92 | 0.12 | 41.2 | Average | 54 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5460 | -49.69 | 2.92 | - | 48.46 | Peak | 68.2 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5460 | -57.77 | 2.92 | 0.12 | 40.5 | Average | 54 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5350 | -47.53 | 2.92 | - | 50.62 | Peak | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5350 | -56.92 | 2.92 | 0.25 | 41.48 | Average | 54 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5350.77 | -46.57 | 2.92 | - | 51.58 | Peak | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5363.31 | -56.49 | 2.92 | 0.25 | 41.91 | Average | 54 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5460 | -49.71 | 2.92 | - | 48.44 | Peak | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5460 | -57.22 | 2.92 | 0.25 | 41.18 | Average | 54 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 4500 | -50.1 | 2.92 | - | 48.05 | Peak | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 4500 | -58.65 | 2.92 | 0.25 | 39.75 | Average | 54 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5137.53 | -41.34 | 2.92 | - | 56.81 | Peak | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5148.59 | -50.64 | 2.92 | 0.25 | 47.76 | Average | 54 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5150 | -43.28 | 2.92 | - | 54.87 | Peak | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5150 | -50.17 | 2.92 | 0.25 | 48.23 | Average | 54 | Pass |

Test Graphs

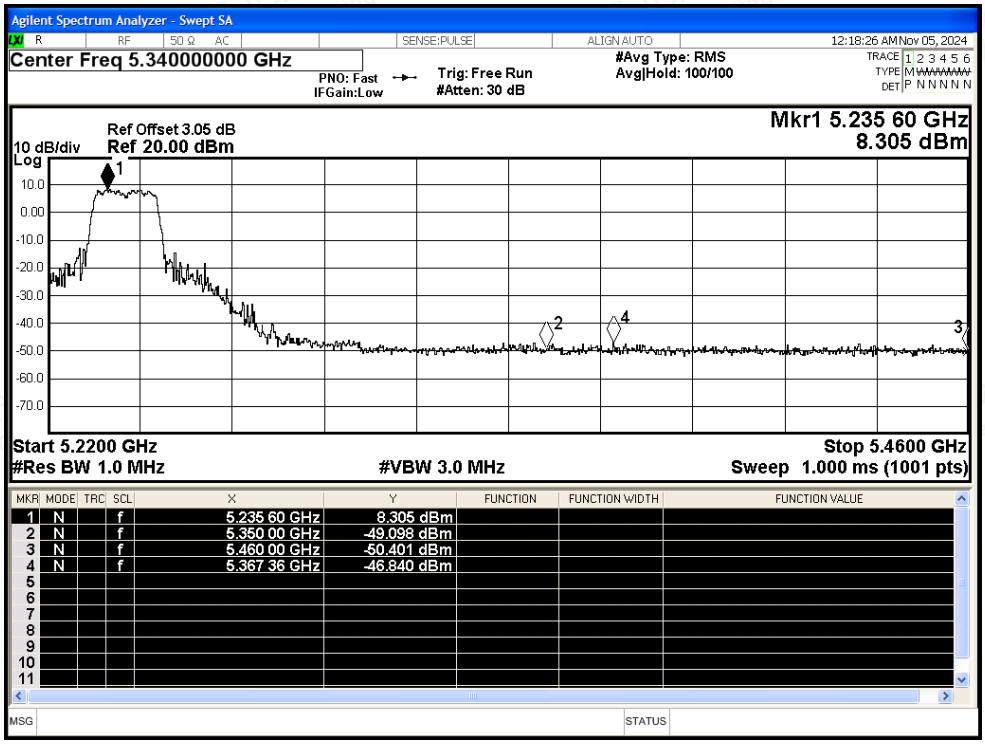
Restrict Band NVNT a 5180MHz Ant1 Peak



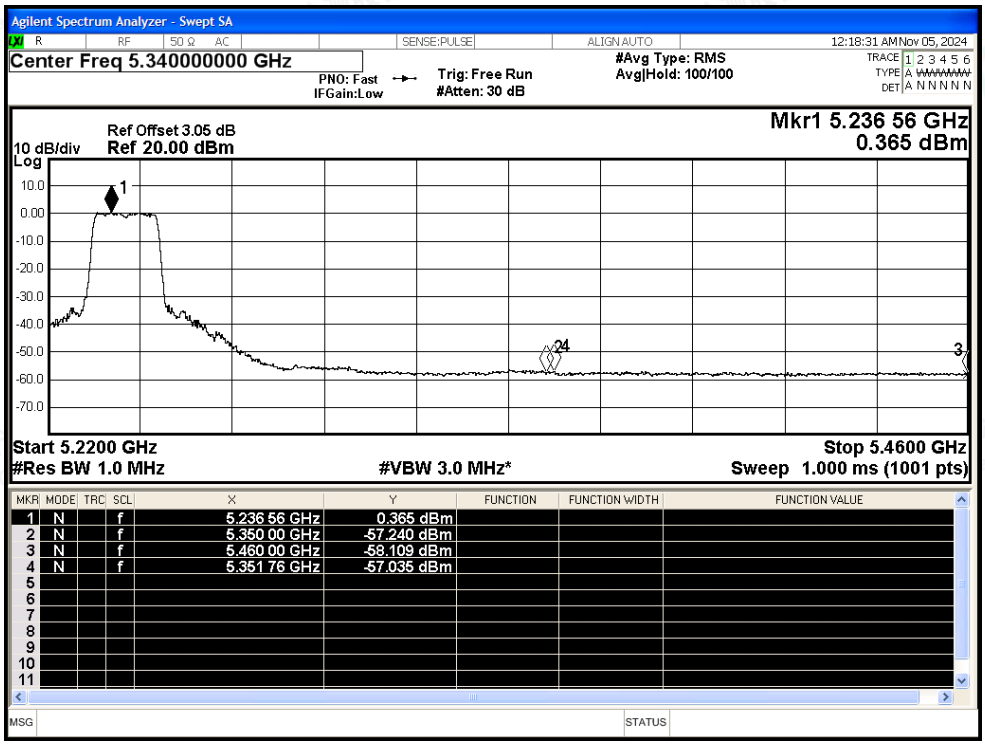

Restrict Band NVNT a 5180MHz Ant1 Average



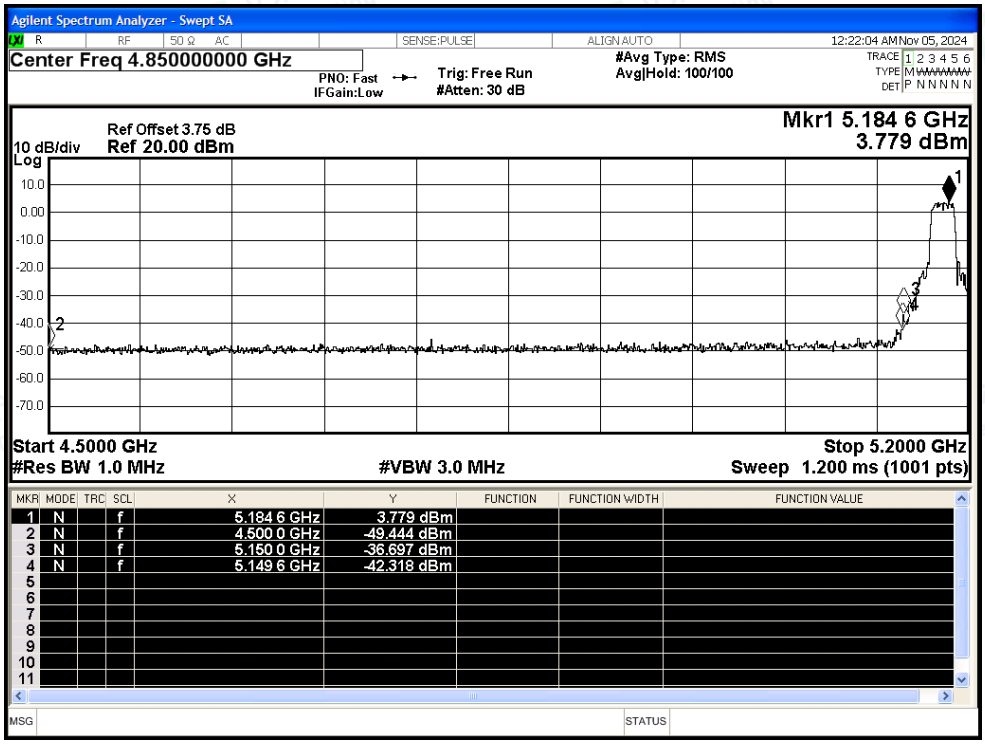
Restrict Band NVNT a 5240MHz Ant1 Peak



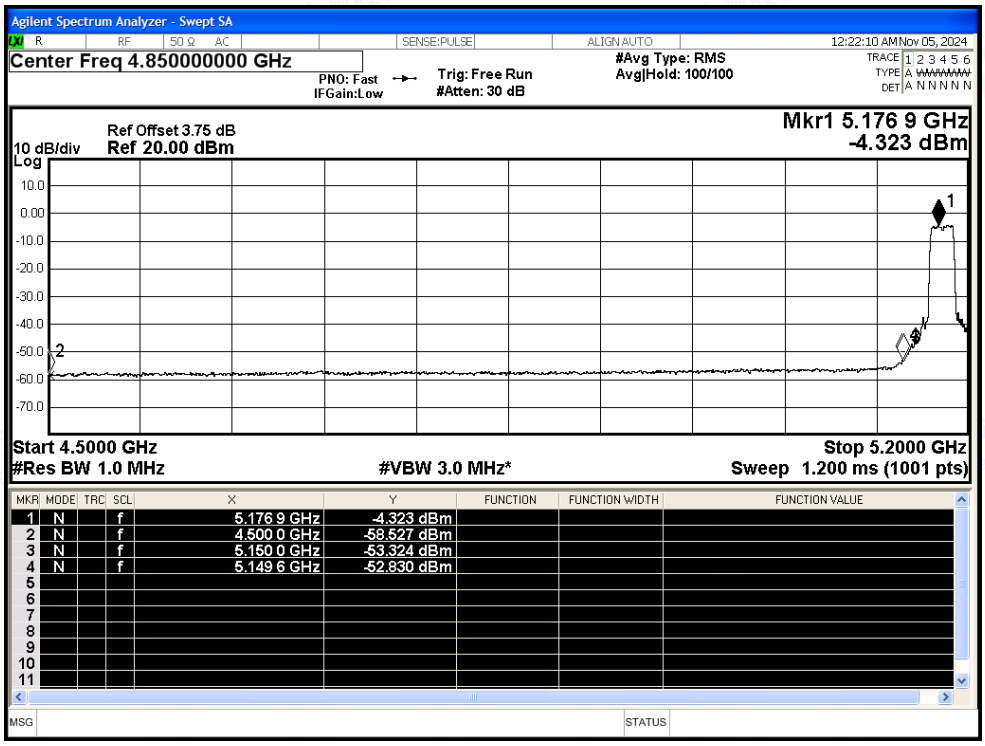

Restrict Band NVNT a 5240MHz Ant1 Average



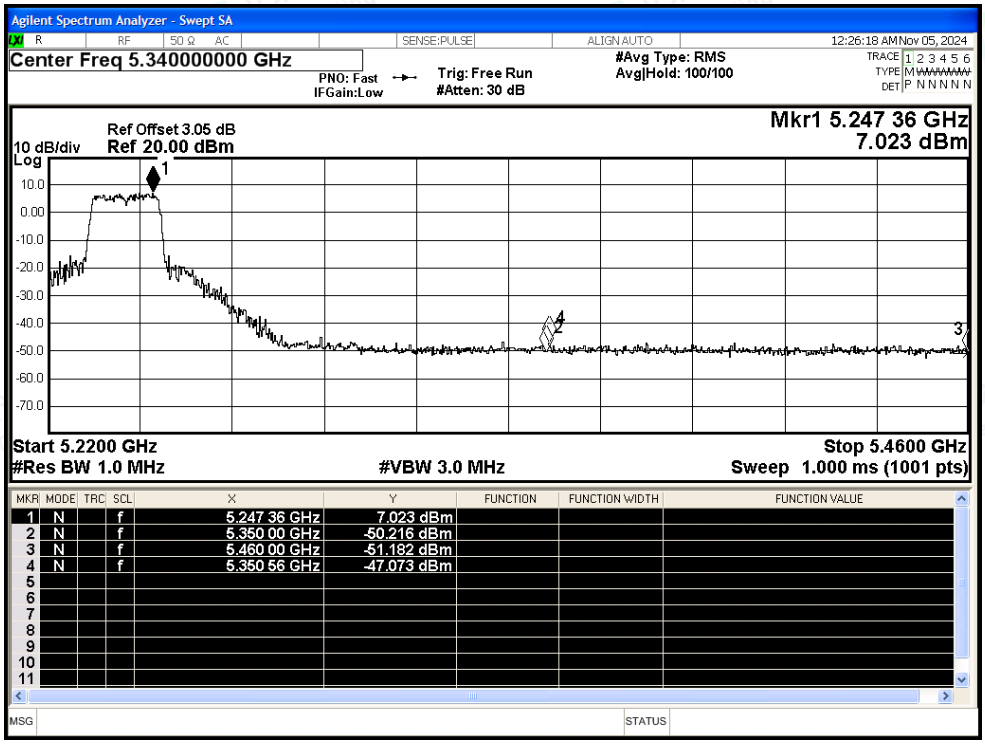
Restrict Band NVNT n20 5180MHz Ant1 Peak



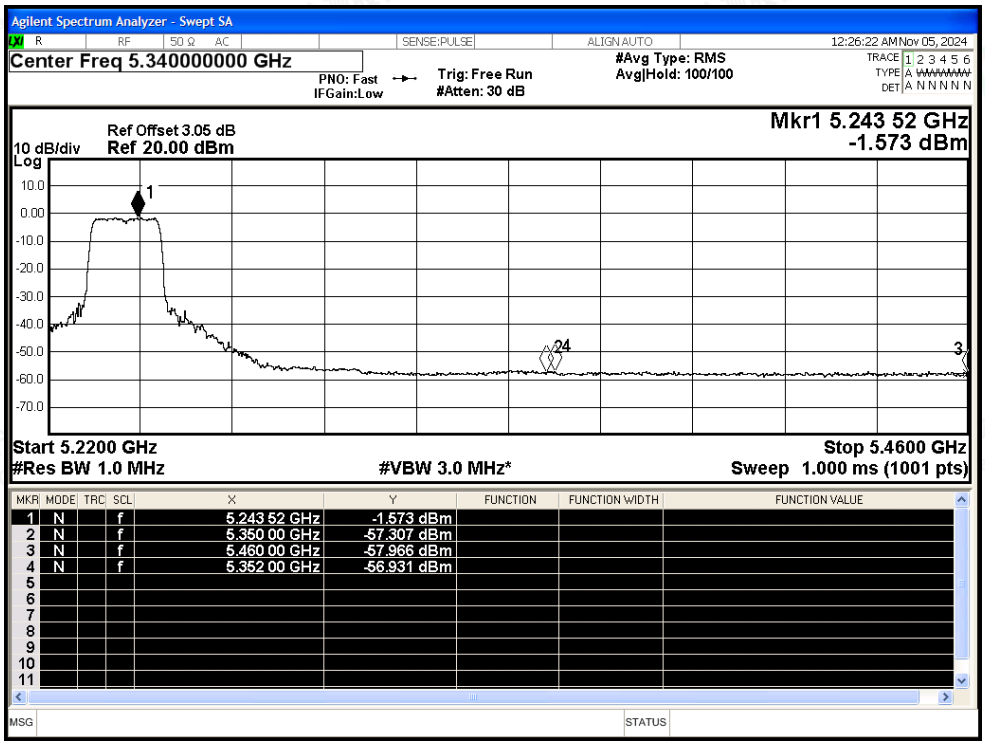

Restrict Band NVNT n20 5180MHz Ant1 Average



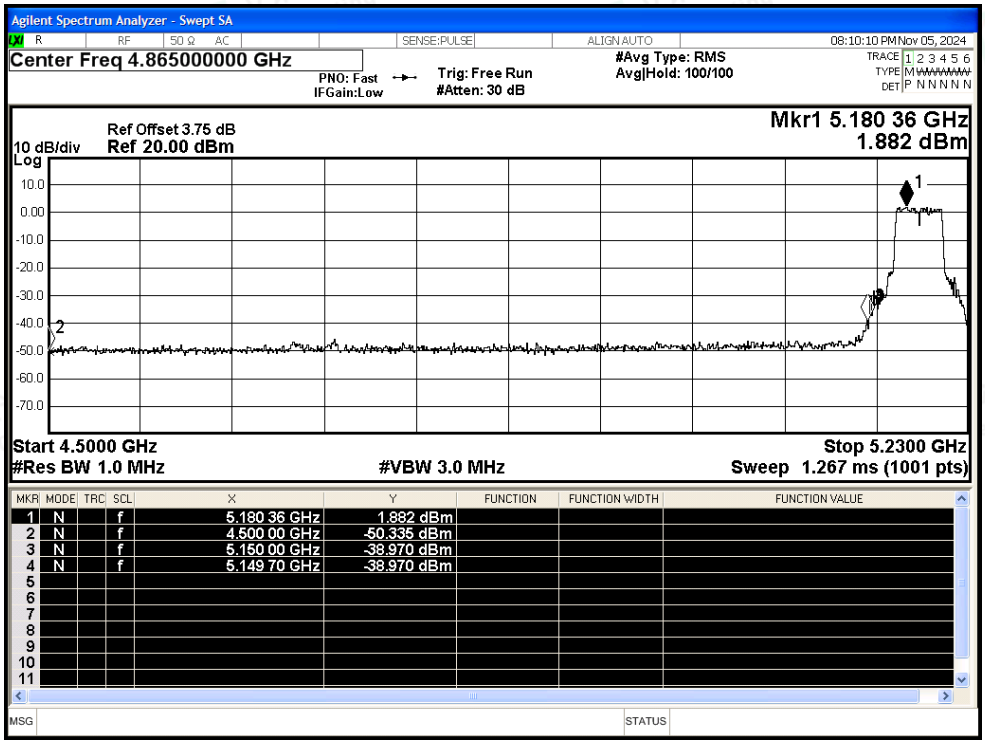
Restrict Band NVNT n20 5240MHz Ant1 Peak



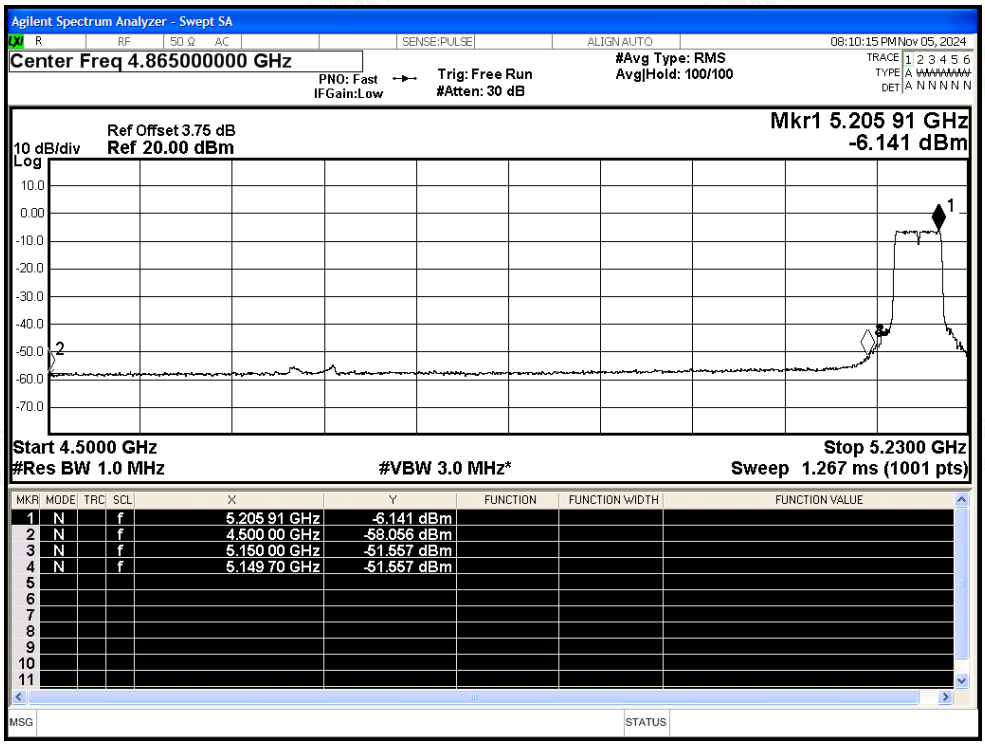

Restrict Band NVNT n20 5240MHz Ant1 Average



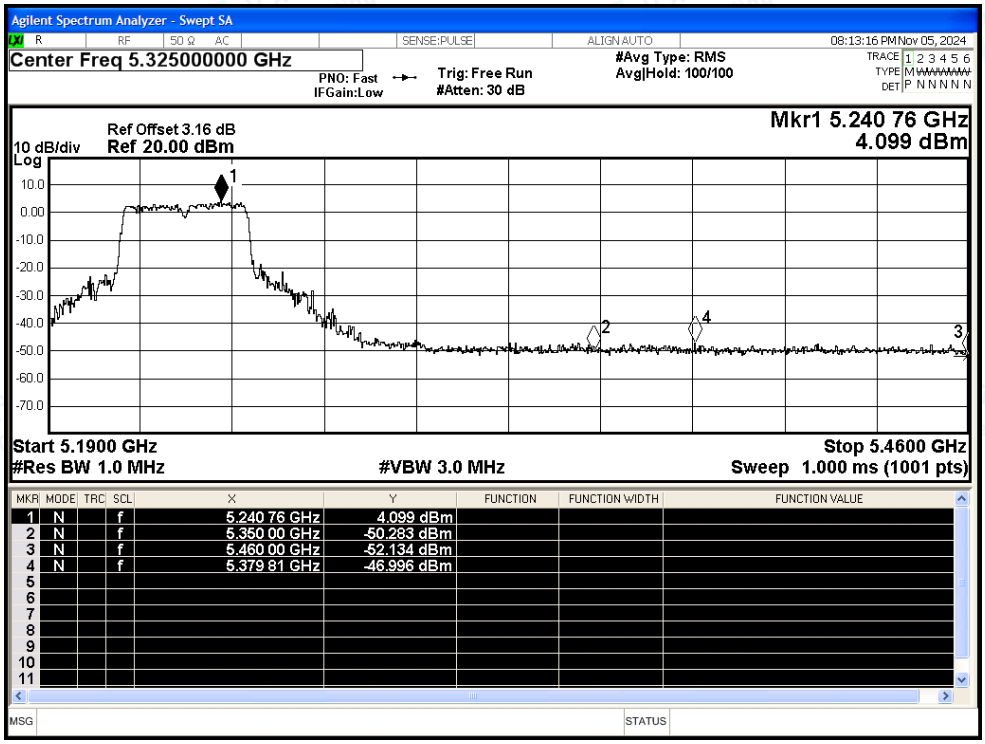
Restrict Band NVNT n40 5190MHz Ant1 Peak



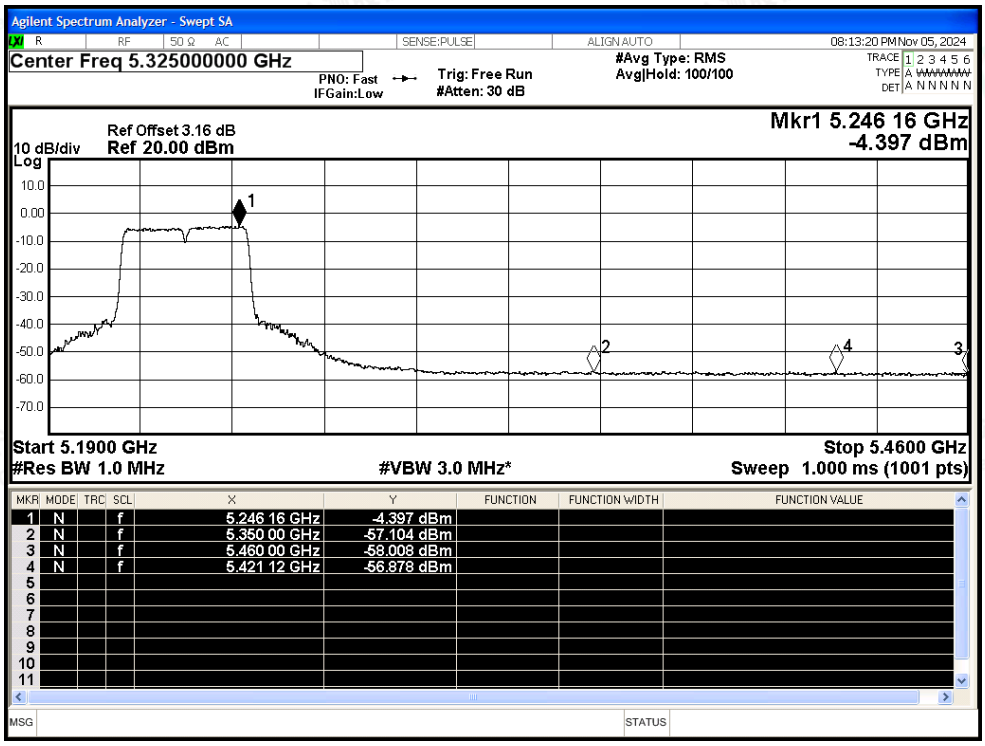

Restrict Band NVNT n40 5190MHz Ant1 Average



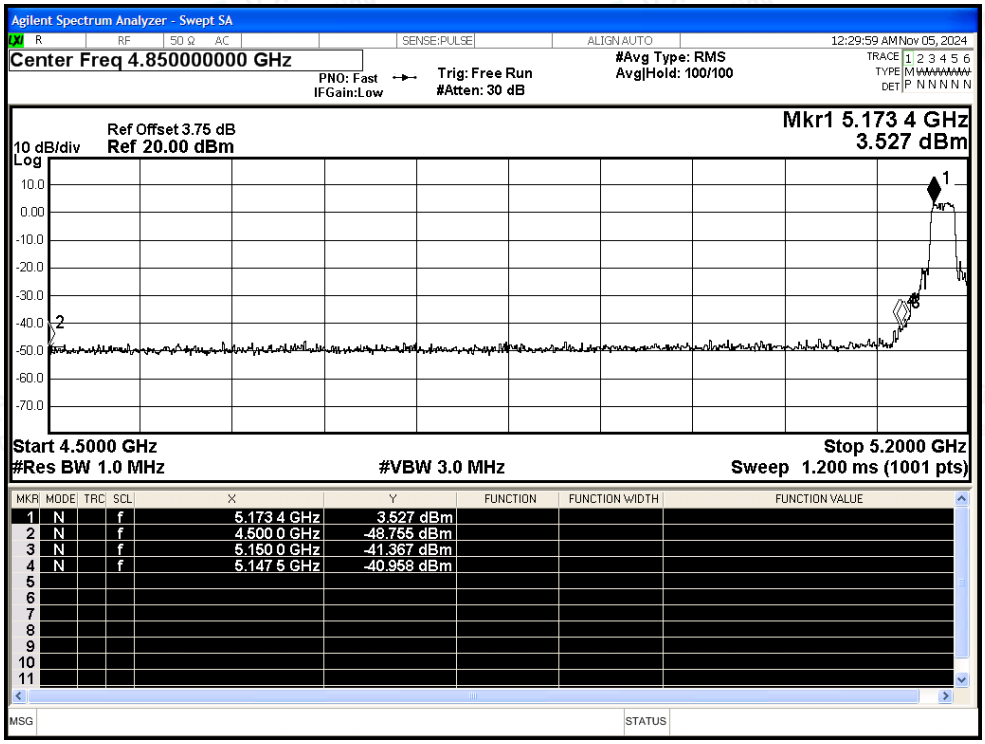
Restrict Band NVNT n40 5230MHz Ant1 Peak



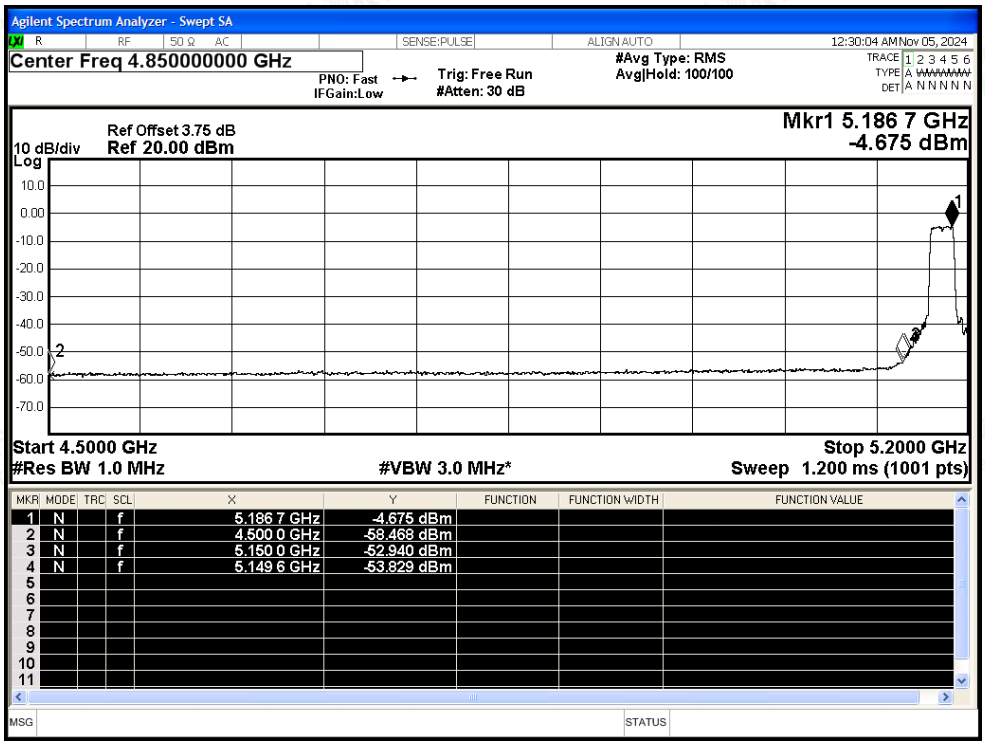

Restrict Band NVNT n40 5230MHz Ant1 Average



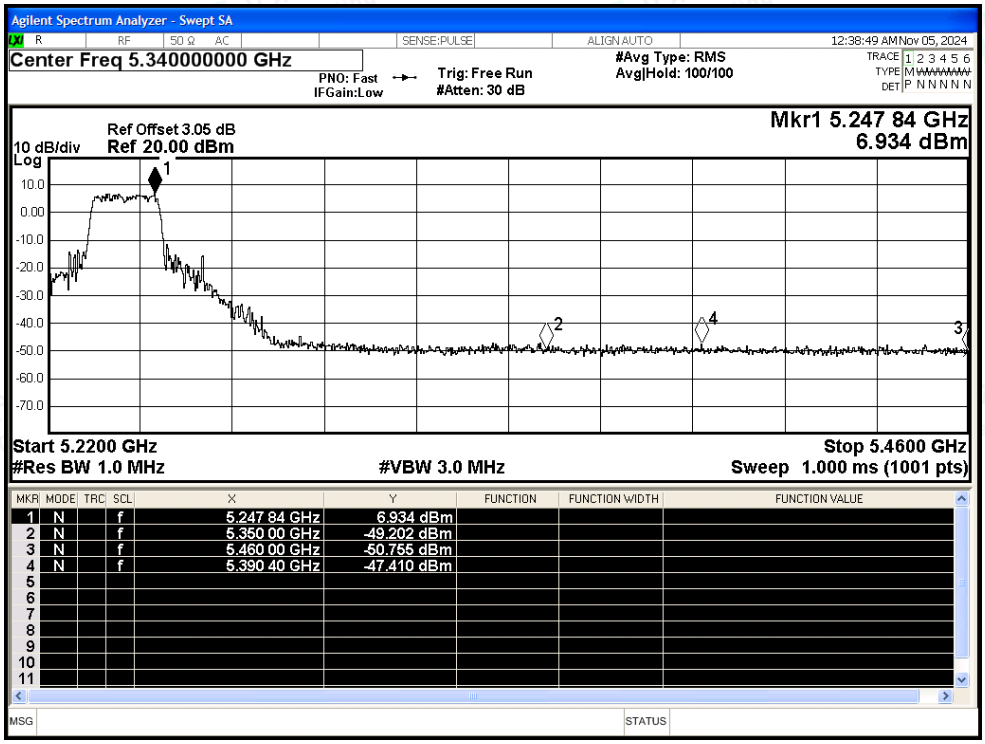
Restrict Band NVNT ac20 5180MHz Ant1 Peak



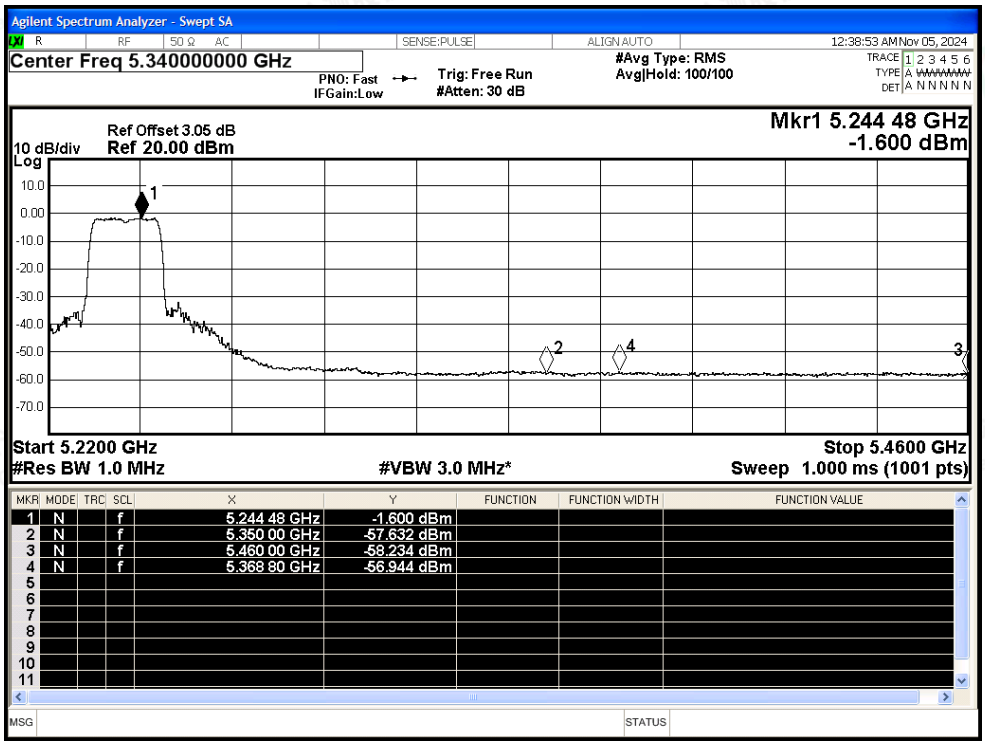

Restrict Band NVNT ac20 5180MHz Ant1 Average



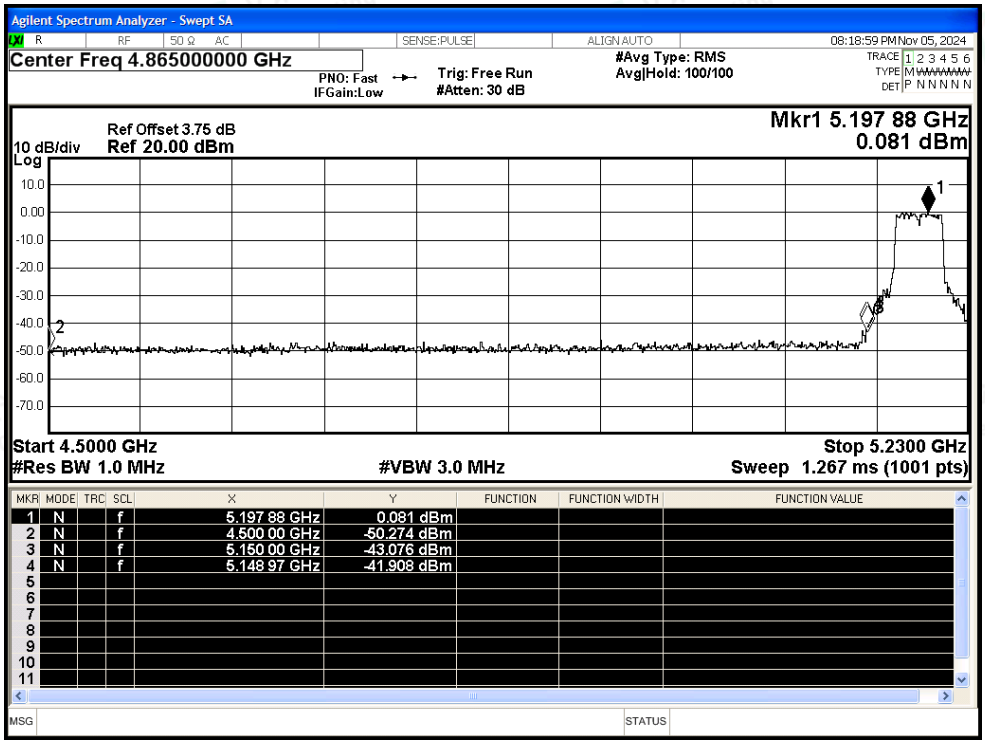
Restrict Band NVNT ac20 5240MHz Ant1 Peak



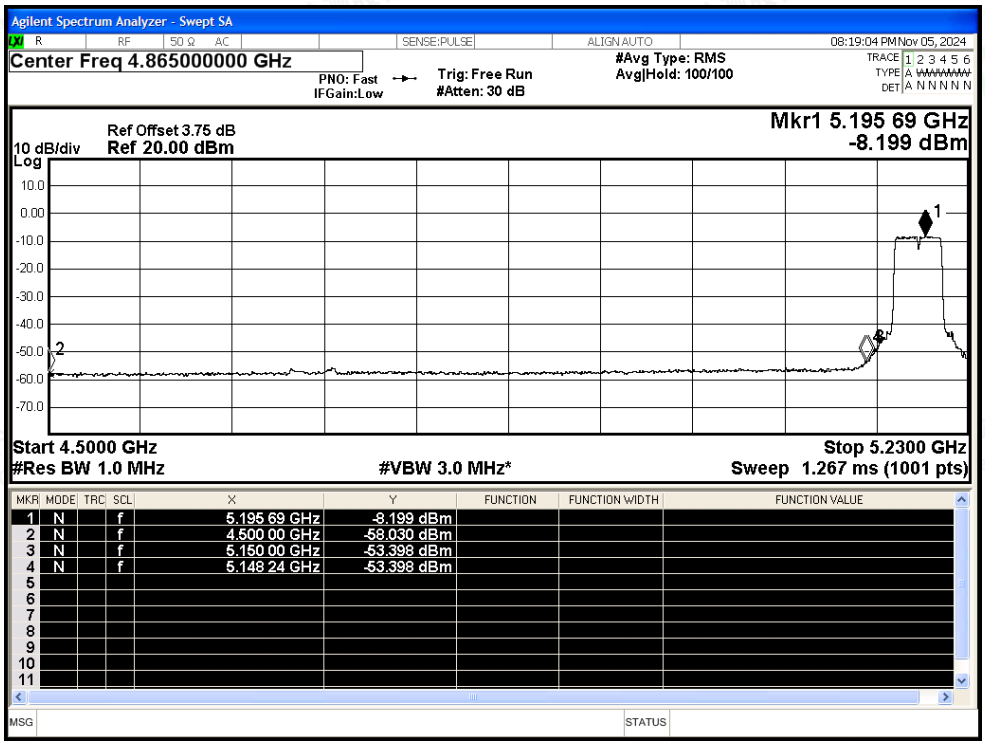

Restrict Band NVNT ac20 5240MHz Ant1 Average



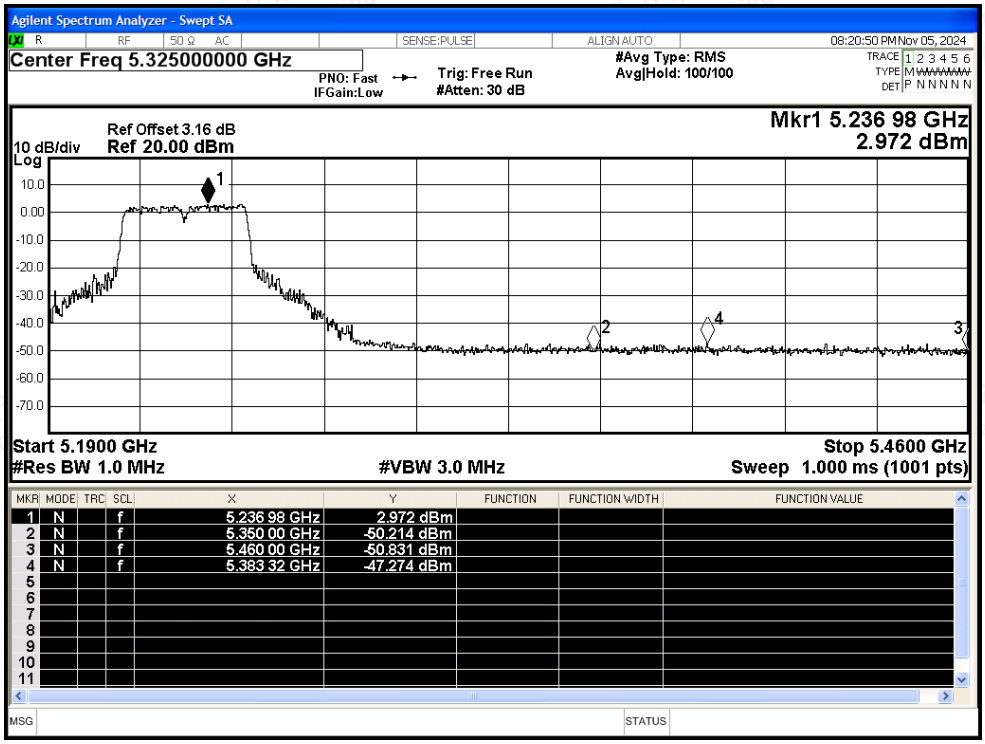
Restrict Band NVNT ac40 5190MHz Ant1 Peak



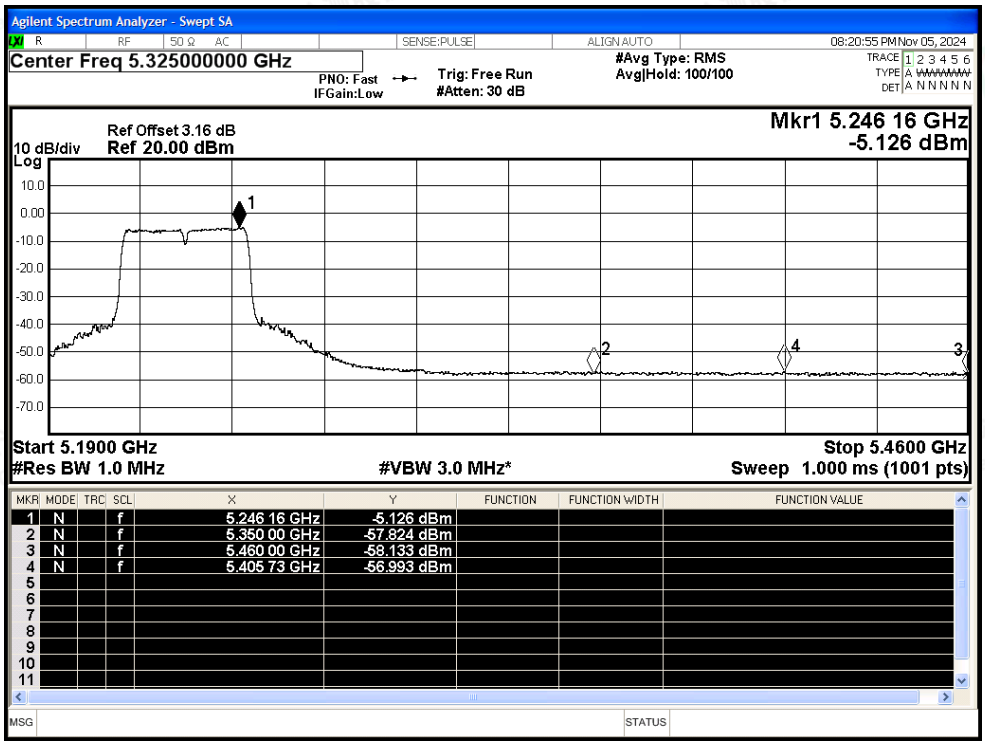

Restrict Band NVNT ac40 5190MHz Ant1 Average



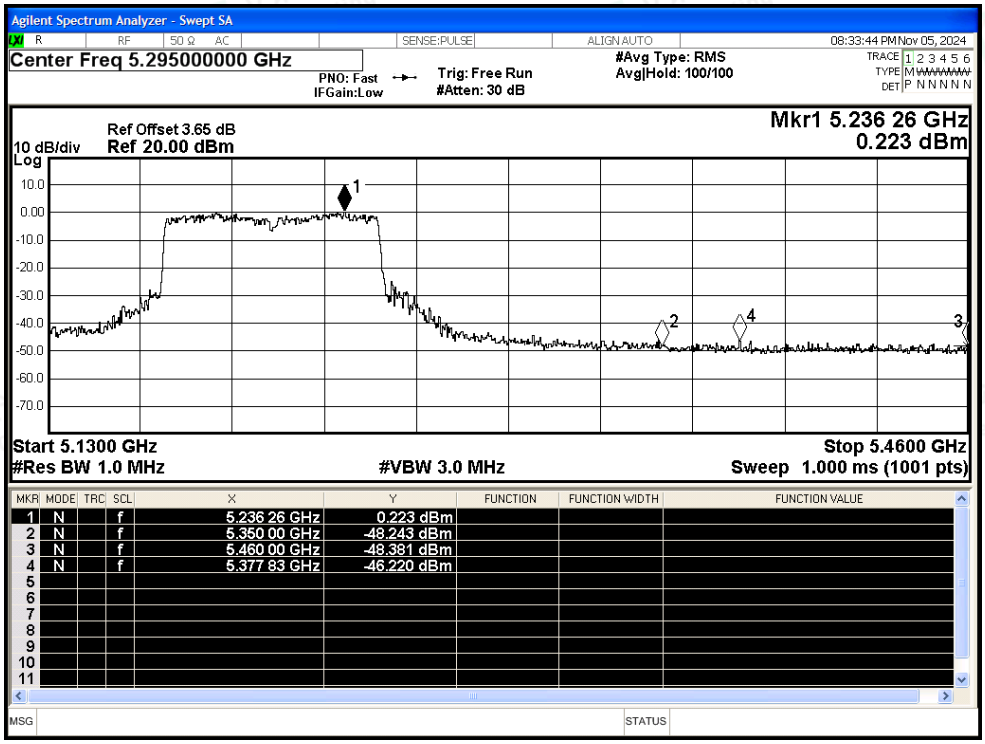
Restrict Band NVNT ac40 5230MHz Ant1 Peak



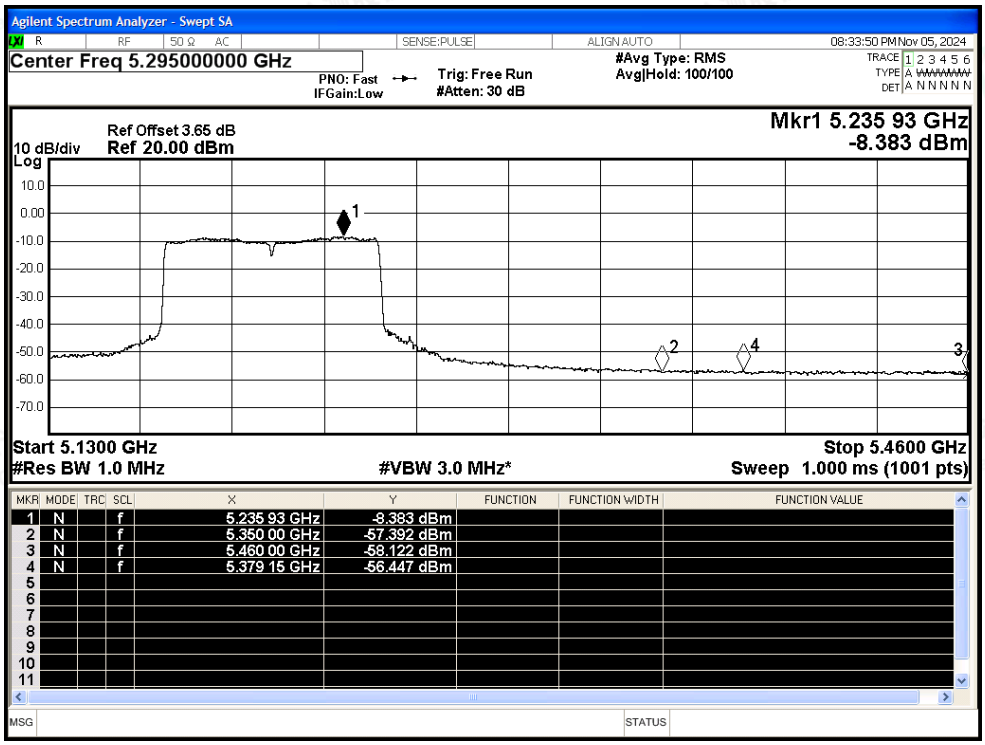

Restrict Band NVNT ac40 5230MHz Ant1 Average



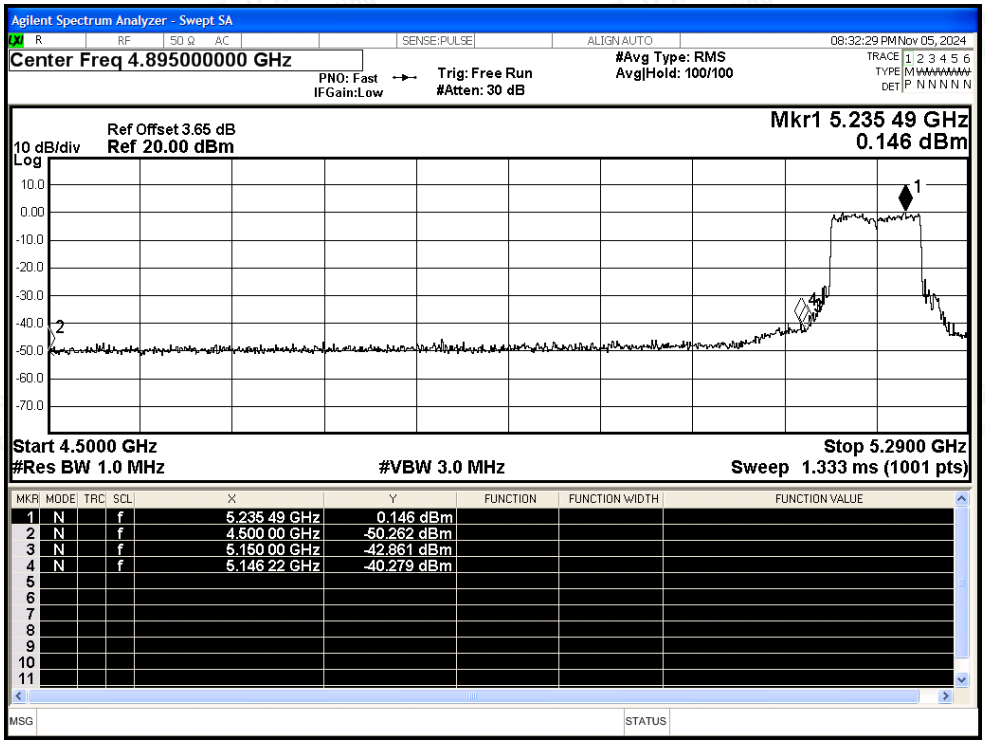
Restrict Band NVNT ac80 5210MHz Ant1 Peak



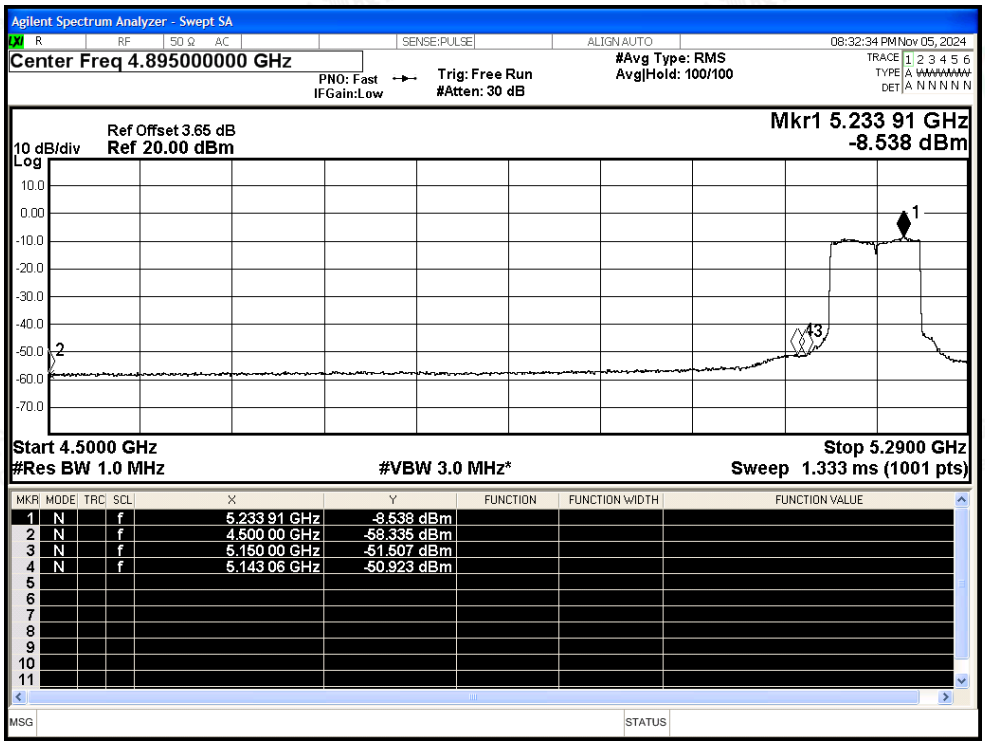

Restrict Band NVNT ac80 5210MHz Ant1 Average



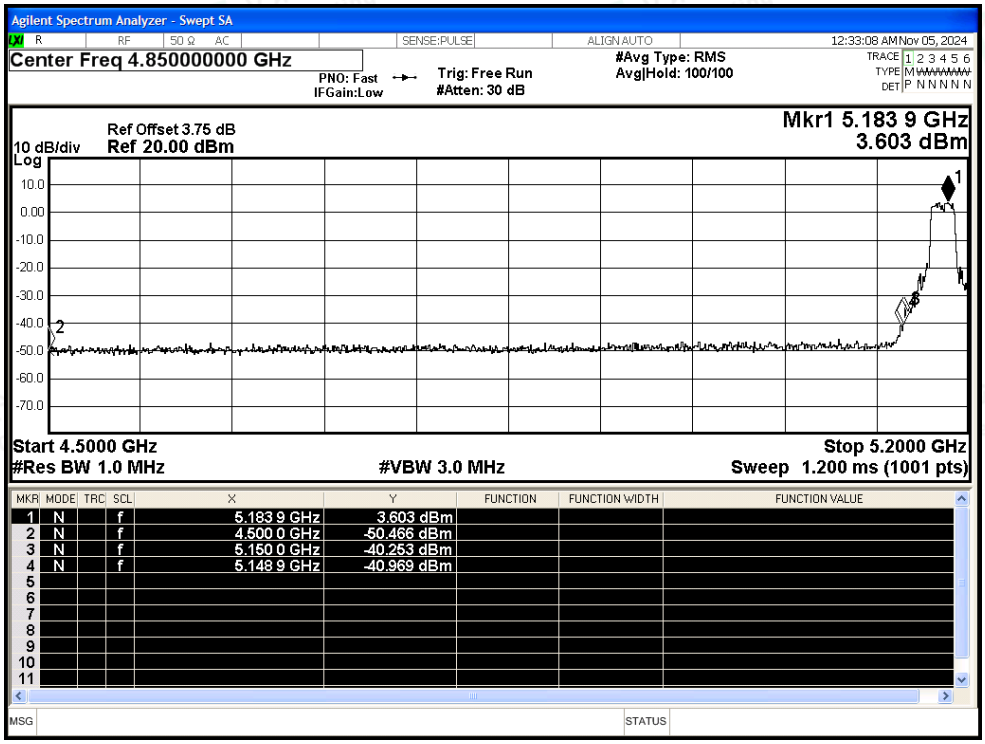
Restrict Band NVNT ac80 5210MHz Ant1 Peak



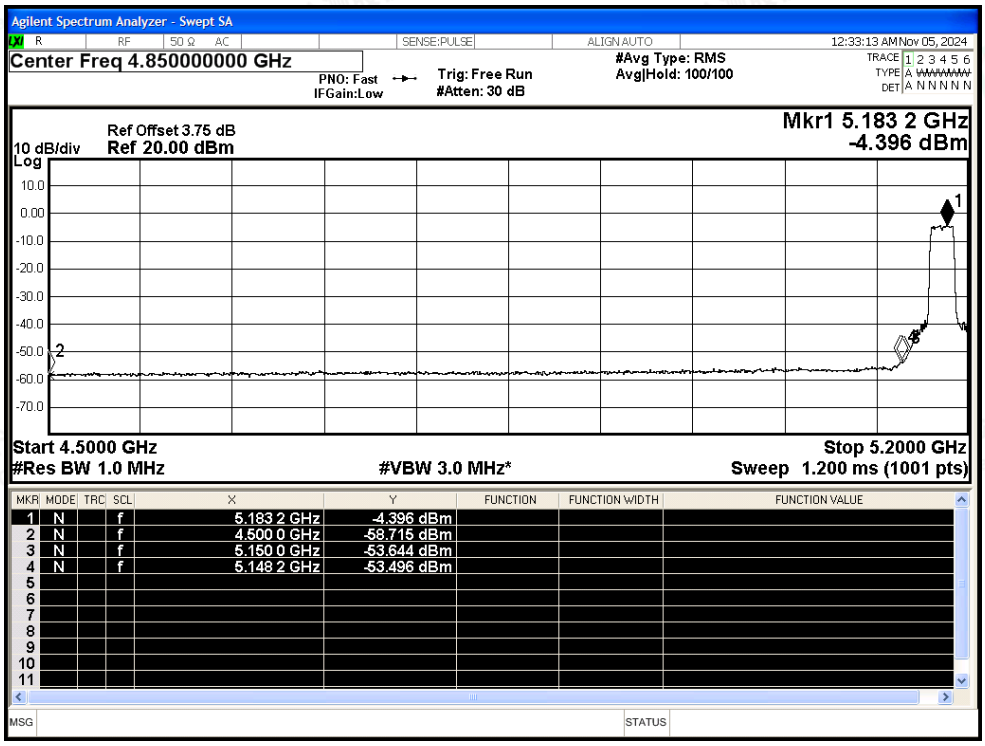

Restrict Band NVNT ac80 5210MHz Ant1 Average



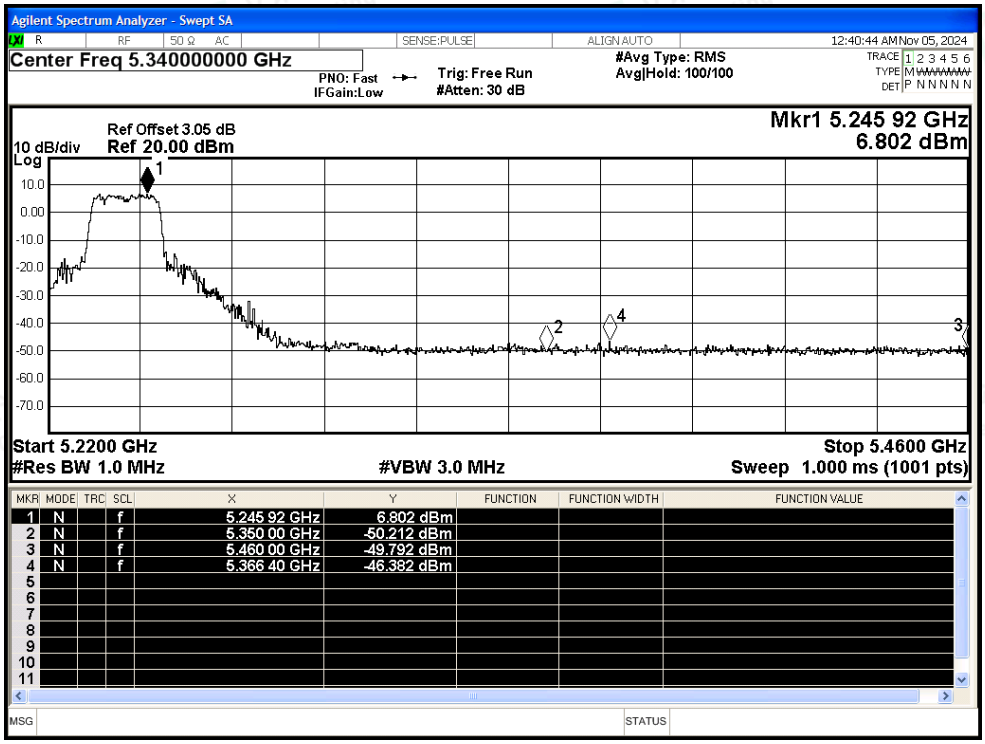
Restrict Band NVNT ax20 5180MHz Ant1 Peak



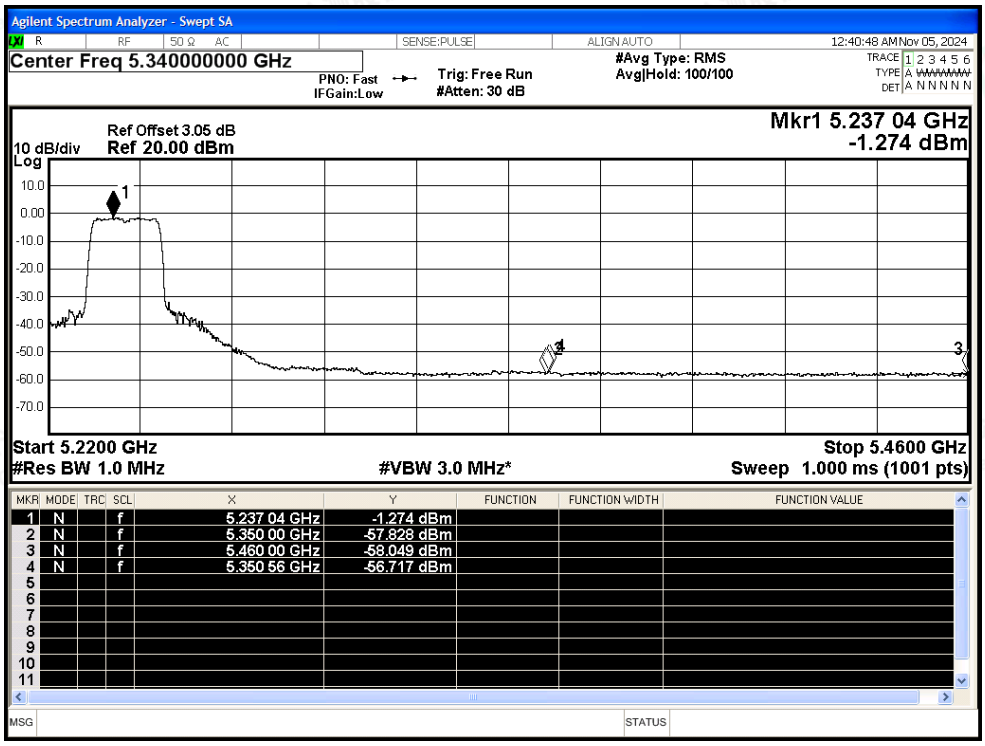

Restrict Band NVNT ax20 5180MHz Ant1 Average



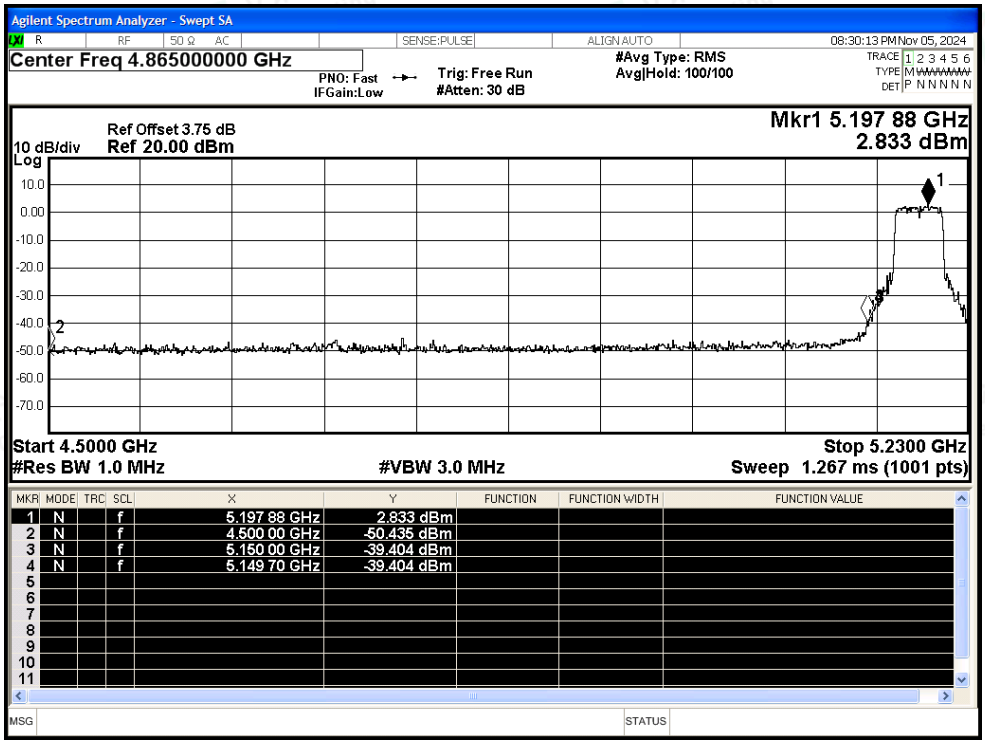
Restrict Band NVNT ax20 5240MHz Ant1 Peak



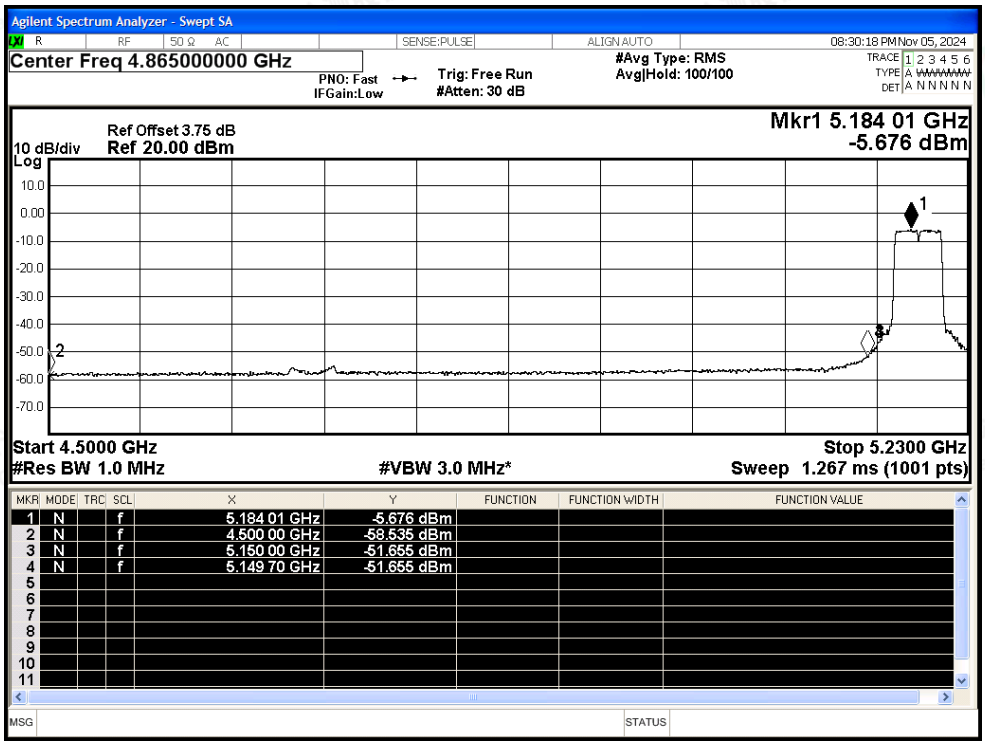

Restrict Band NVNT ax20 5240MHz Ant1 Average



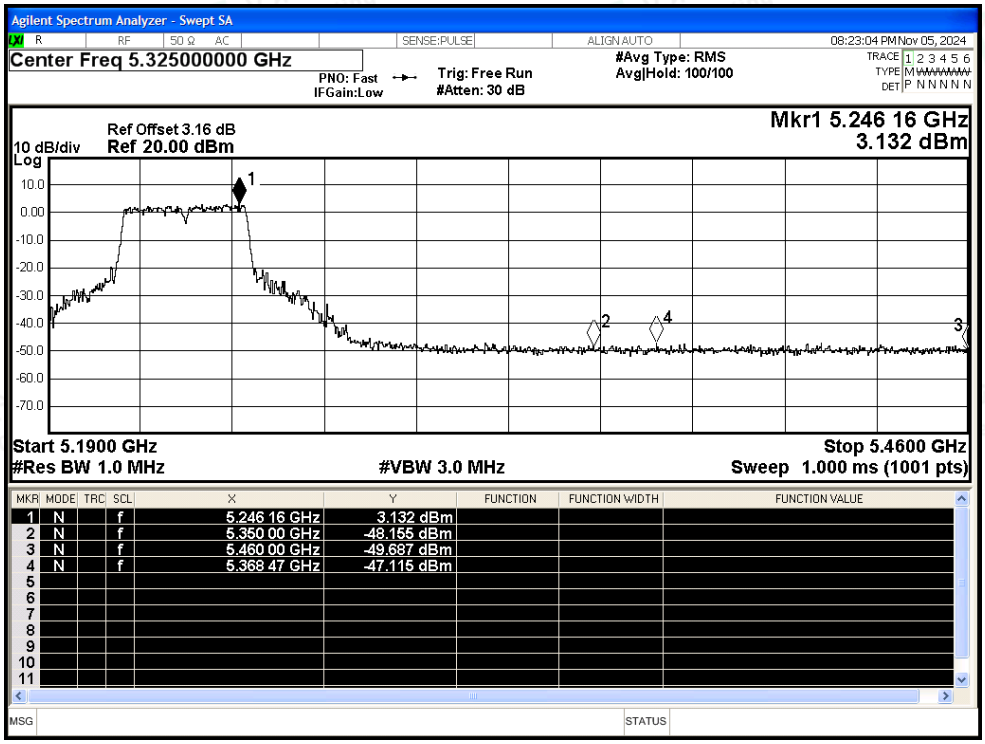
Restrict Band NVNT ax40 5190MHz Ant1 Peak



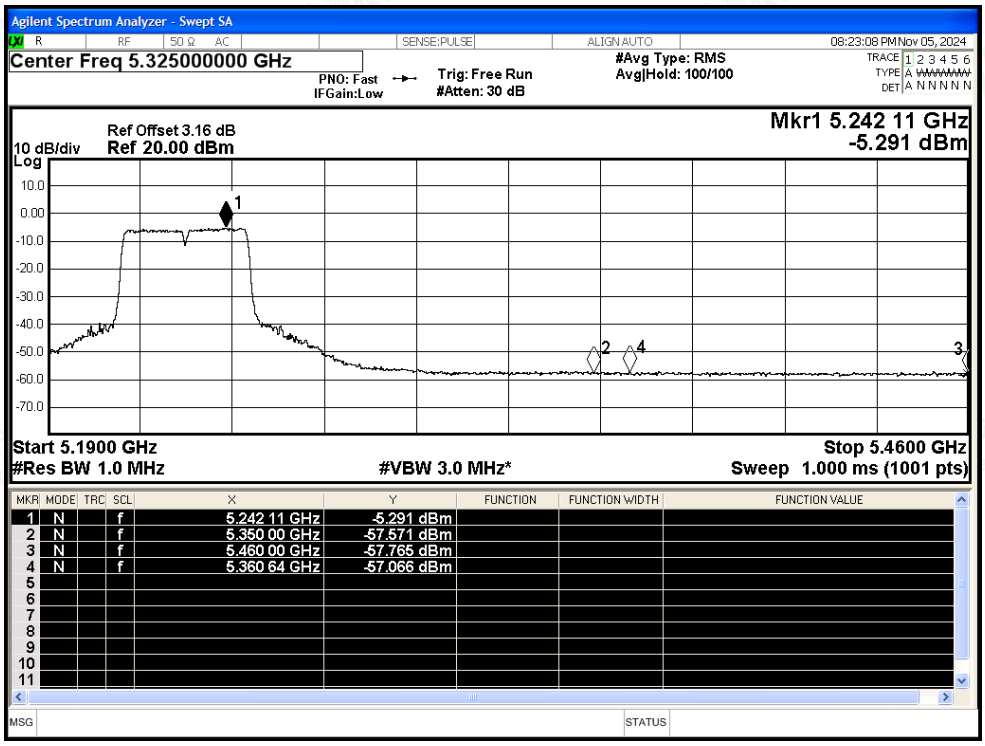

Restrict Band NVNT ax40 5190MHz Ant1 Average



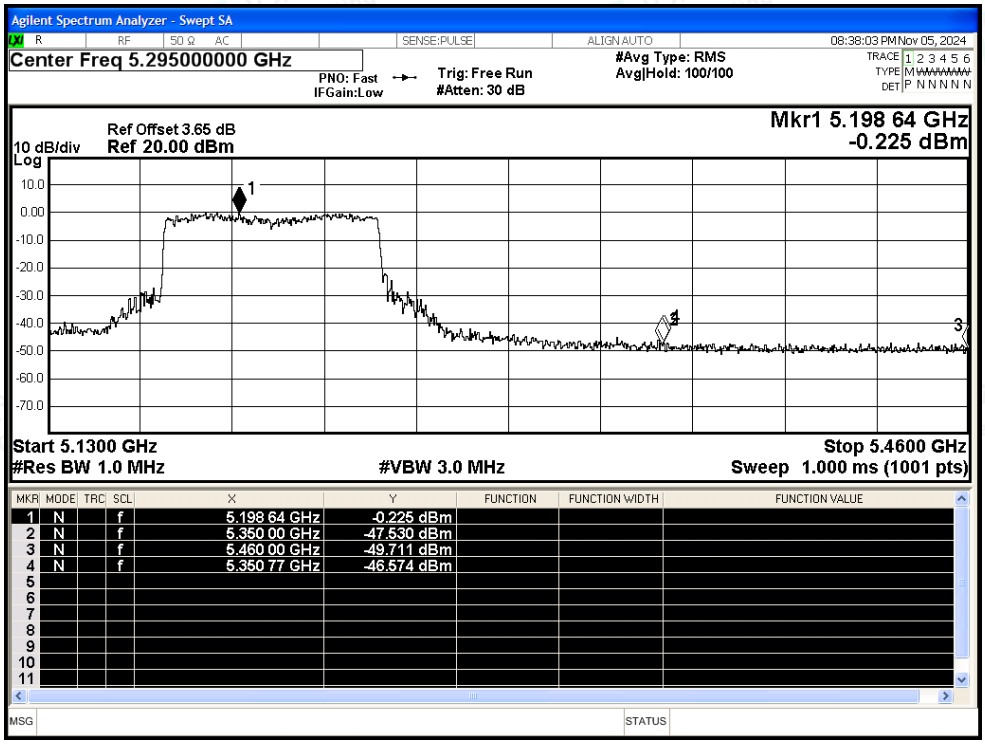
Restrict Band NVNT ax40 5230MHz Ant1 Peak



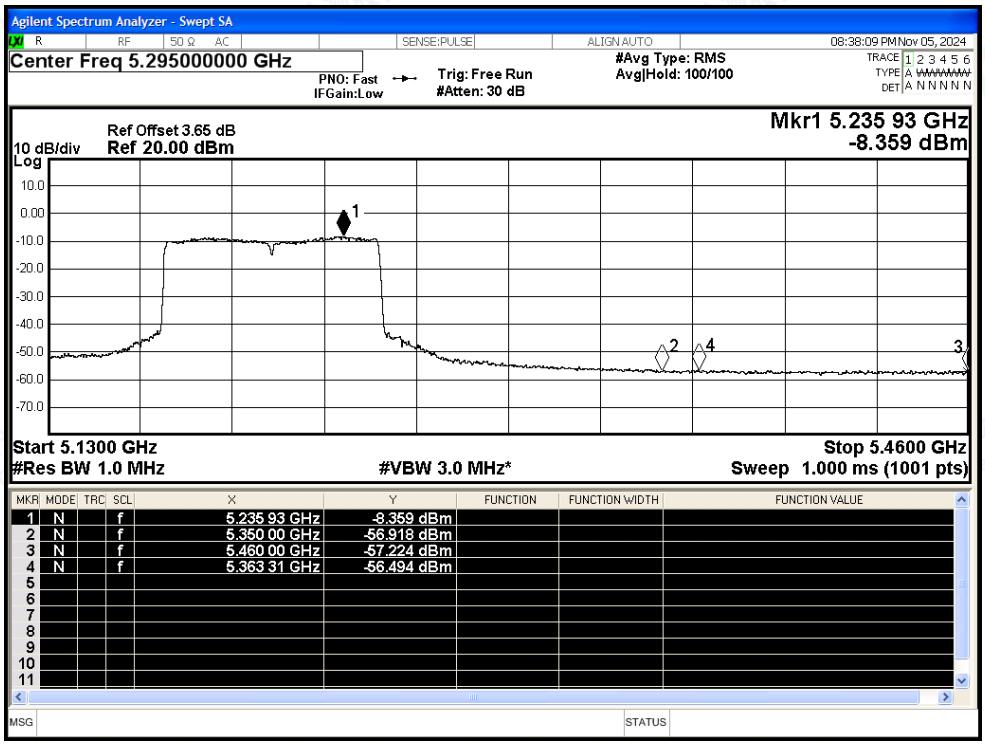

Restrict Band NVNT ax40 5230MHz Ant1 Average



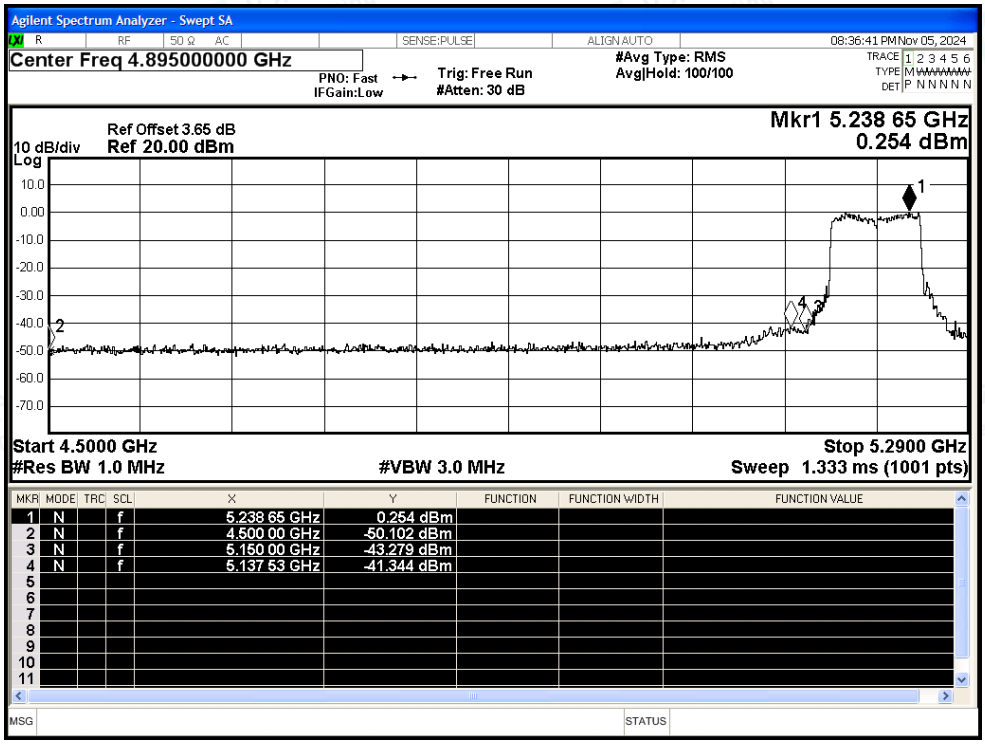
Restrict Band NVNT ax80 5210MHz Ant1 Peak



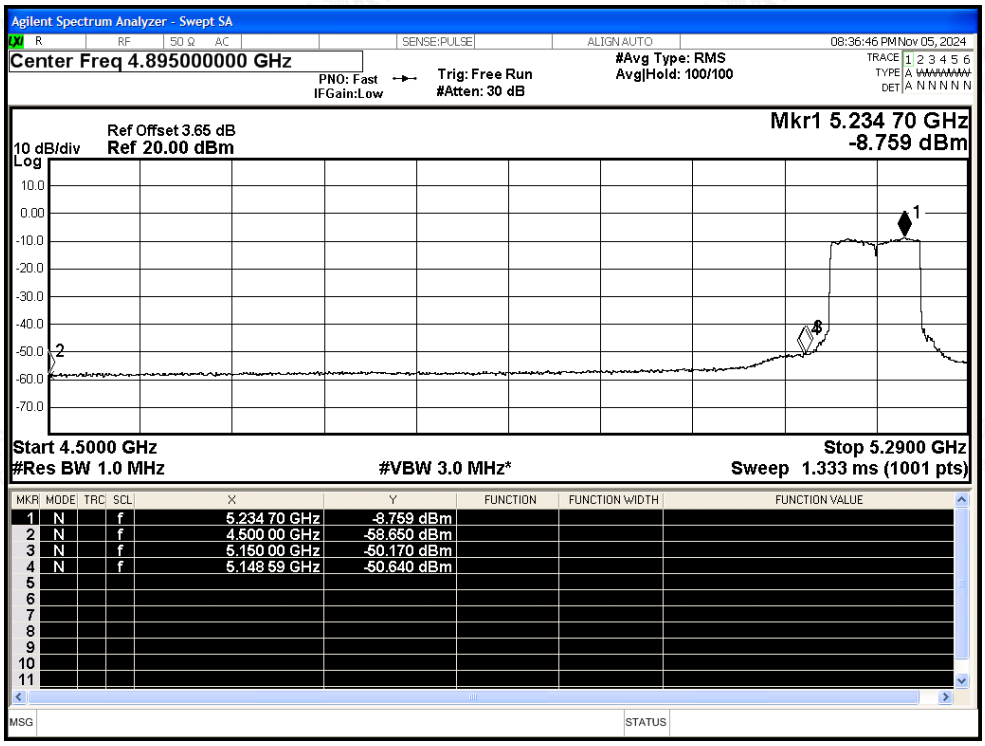

Restrict Band NVNT ax80 5210MHz Ant1 Average



Restrict Band NVNT ax80 5210MHz Ant1 Peak




Restrict Band NVNT ax80 5210MHz Ant1 Average

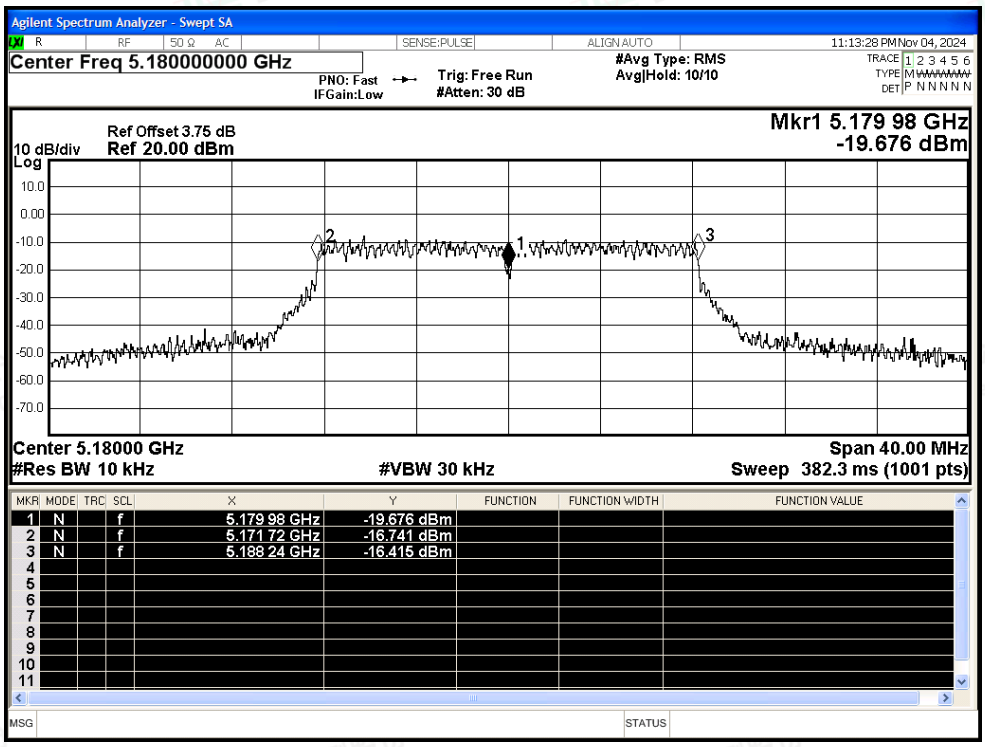


# D.5 Frequency Stability

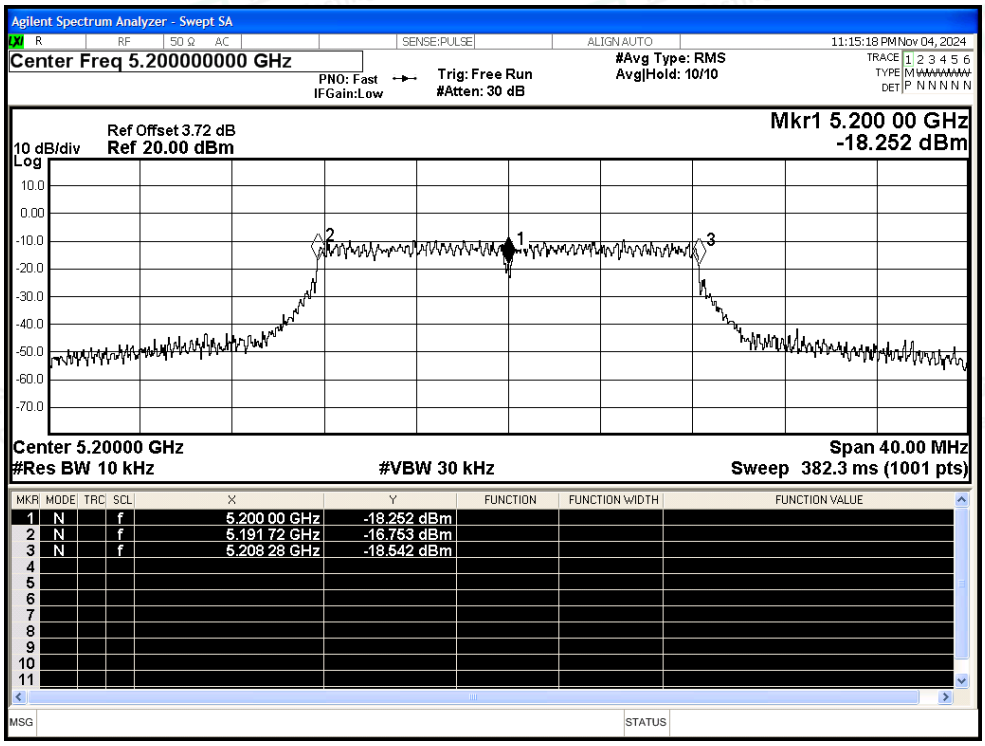
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant0 | 5179.98 | -20000 | -3.86 | 25 | Pass |
| NVNT | a | 5200 | Ant0 | 5200 | 0 | 0 | 25 | Pass |
| NVNT | a | 5240 | Ant0 | 5240 | 0 | 0 | 25 | Pass |
| NVNT | n20 | 5180 | Ant0 | 5179.98 | -20000 | -3.86 | 25 | Pass |
| NVNT | n20 | 5200 | Ant0 | 5199.98 | -20000 | -3.85 | 25 | Pass |
| NVNT | n20 | 5240 | Ant0 | 5239.98 | -20000 | -3.82 | 25 | Pass |
| NVNT | n40 | 5190 | Ant0 | 5190 | 0 | 0 | 25 | Pass |
| NVNT | n40 | 5230 | Ant0 | 5230 | 0 | 0 | 25 | Pass |
| NVNT | ac20 | 5180 | Ant0 | 5180 | 0 | 0 | 25 | Pass |
| NVNT | ac20 | 5200 | Ant0 | 5200 | 0 | 0 | 25 | Pass |
| NVNT | ac20 | 5240 | Ant0 | 5239.98 | -20000 | -3.82 | 25 | Pass |
| NVNT | ac40 | 5190 | Ant0 | 5190 | 0 | 0 | 25 | Pass |
| NVNT | ac40 | 5230 | Ant0 | 5230 | 0 | 0 | 25 | Pass |
| NVNT | ac80 | 5210 | Ant0 | 5210 | 0 | 0 | 25 | Pass |
| NVNT | ax20 | 5180 | Ant0 | 5179.98 | -20000 | -3.86 | 25 | Pass |
| NVNT | ax20 | 5200 | Ant0 | 5199.98 | -20000 | -3.85 | 25 | Pass |
| NVNT | ax20 | 5240 | Ant0 | 5239.98 | -20000 | -3.82 | 25 | Pass |
| NVNT | ax40 | 5190 | Ant0 | 5190 | 0 | 0 | 25 | Pass |
| NVNT | ax40 | 5230 | Ant0 | 5229.96 | -40000 | -7.65 | 25 | Pass |
| NVNT | ax80 | 5210 | Ant0 | 5210 | 0 | 0 | 25 | Pass |

Test Graphs

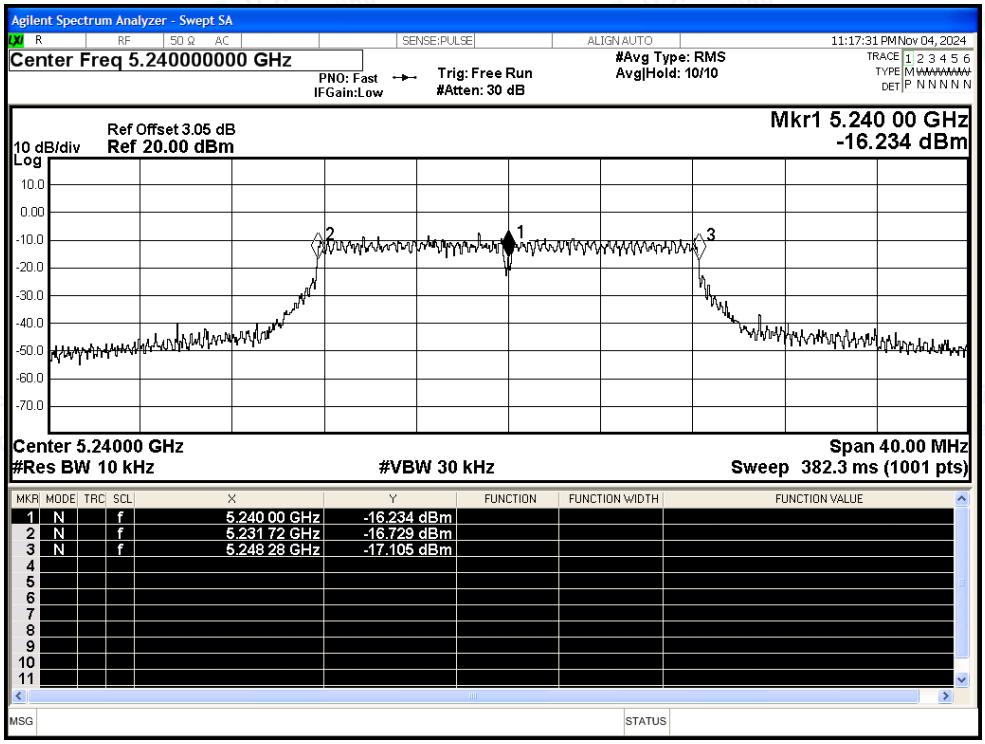
Freq. Stability NVNT a 5180MHz Ant0



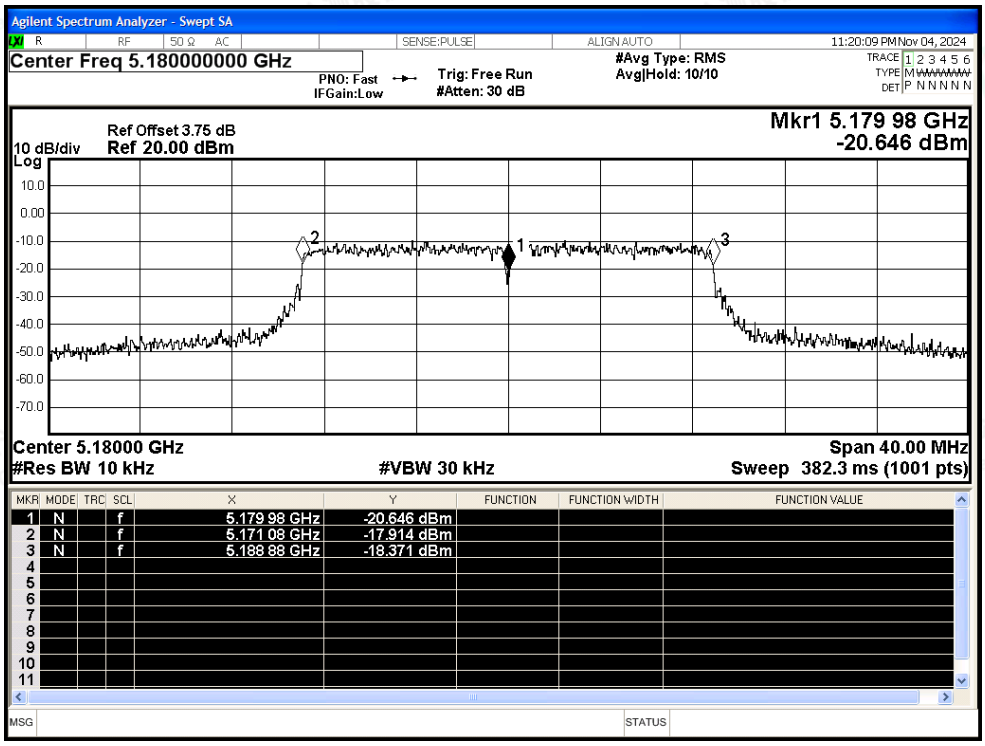

Freq. Stability NVNT a 5200MHz Ant0



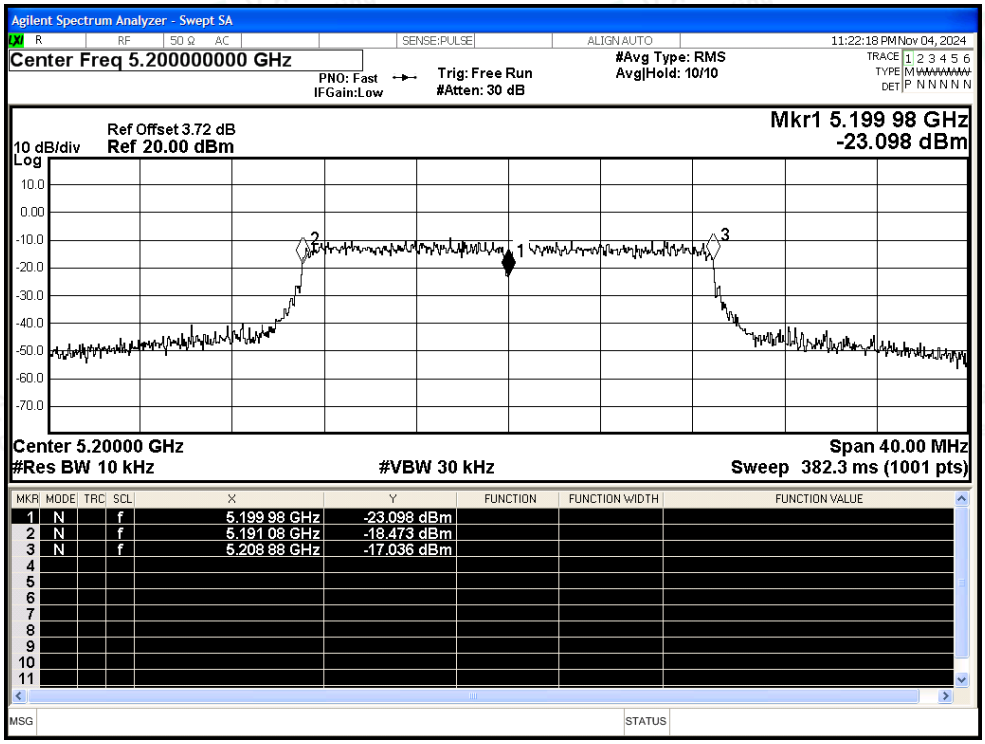
Freq. Stability NVNT a 5240MHz Ant0



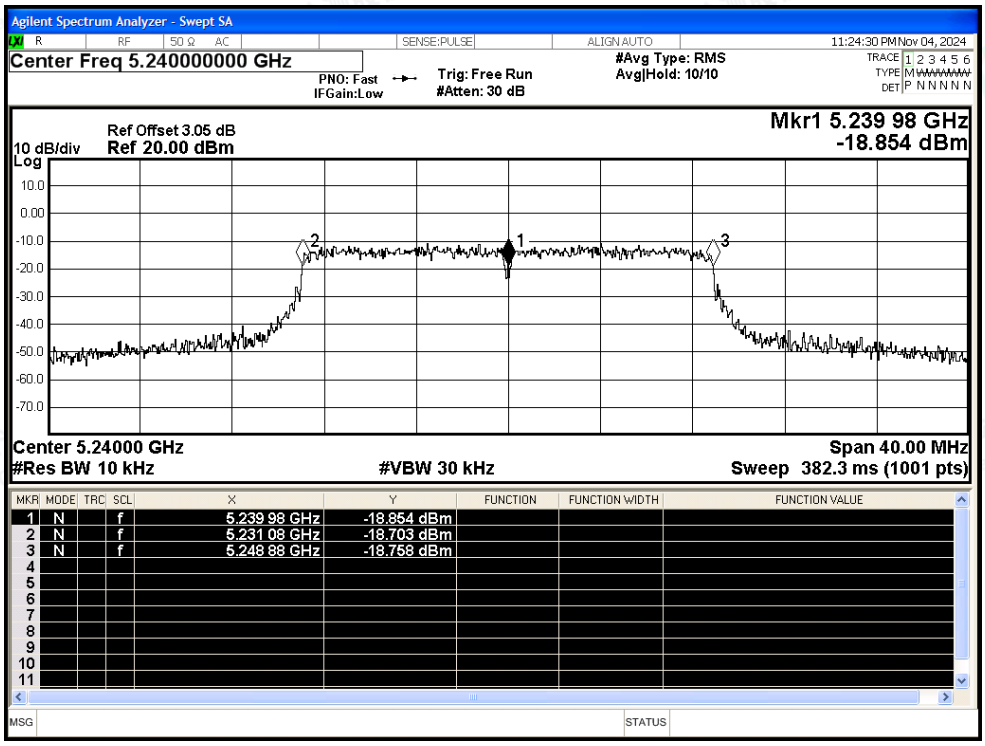

Freq. Stability NVNT n20 5180MHz Ant0



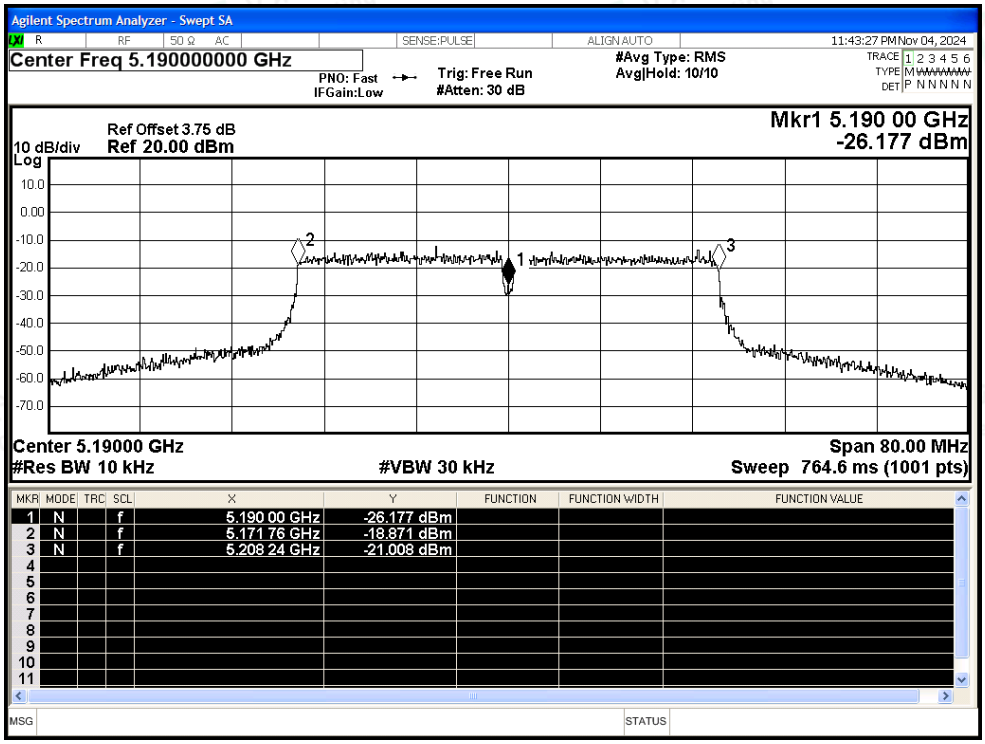
Freq. Stability NVNT n20 5200MHz Ant0



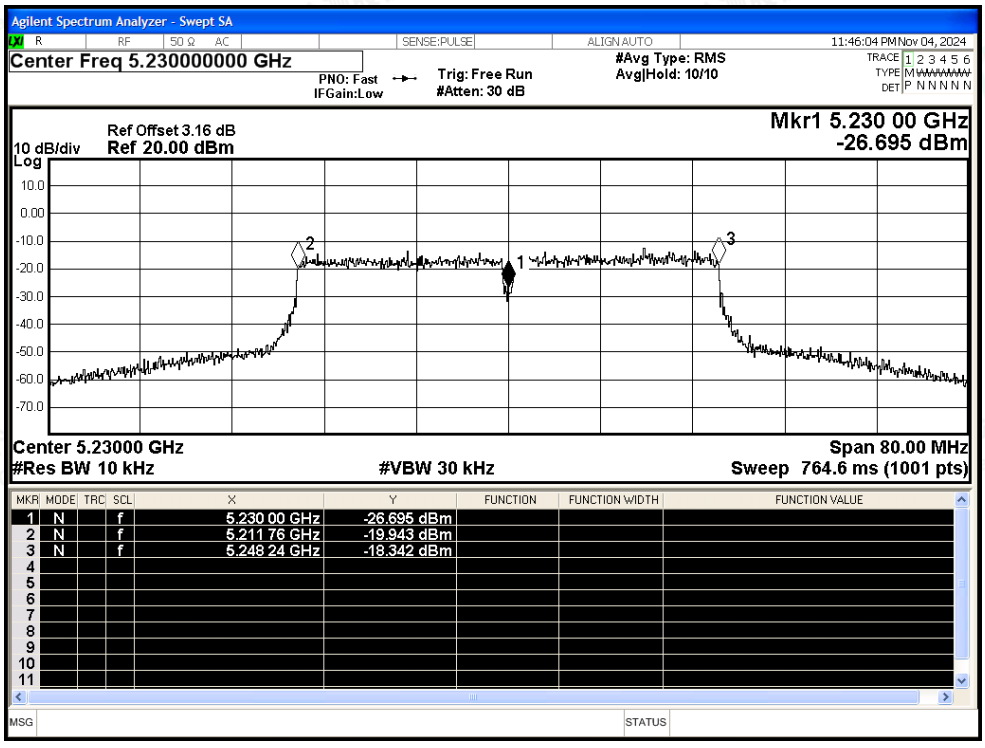

Freq. Stability NVNT n20 5240MHz Ant0



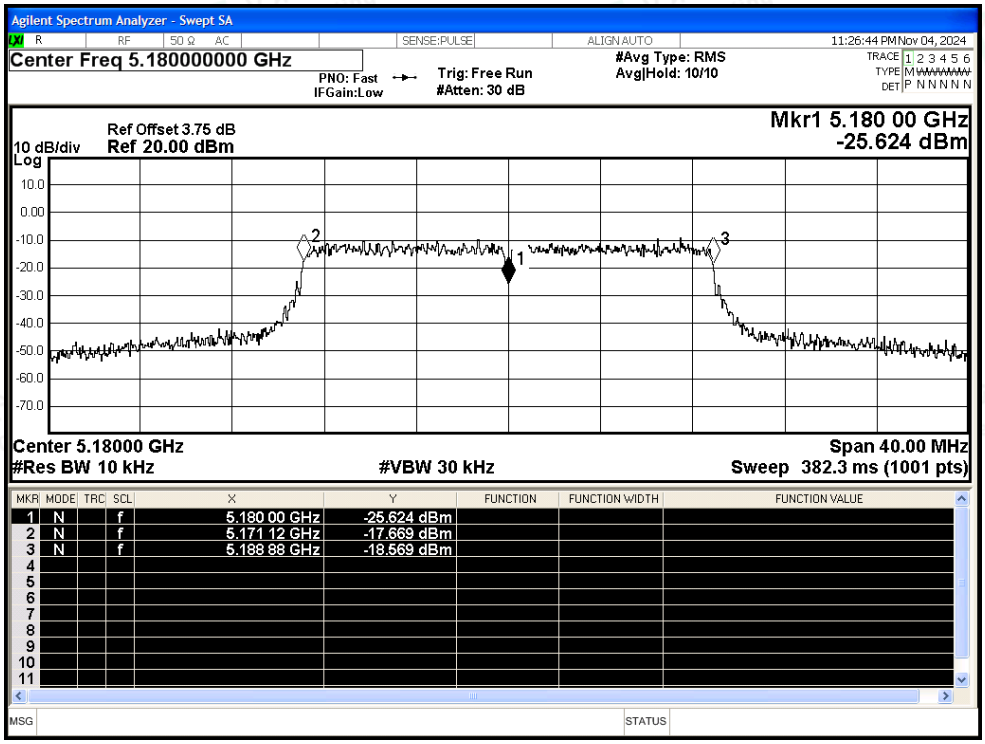
Freq. Stability NVNT n40 5190MHz Ant0



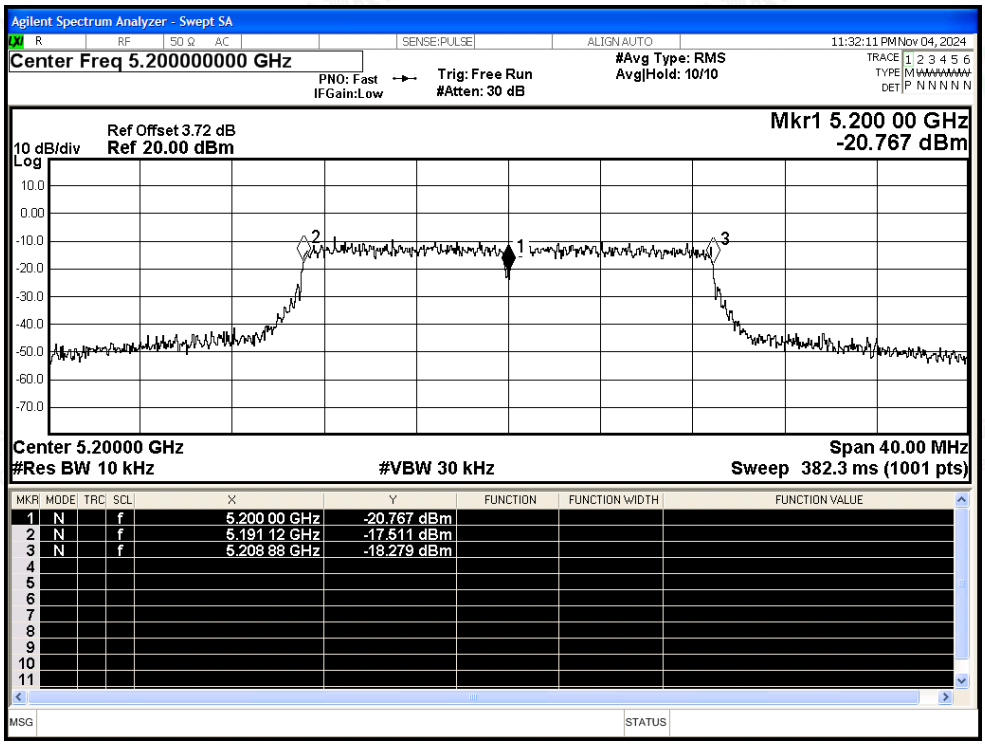

Freq. Stability NVNT n40 5230MHz Ant0



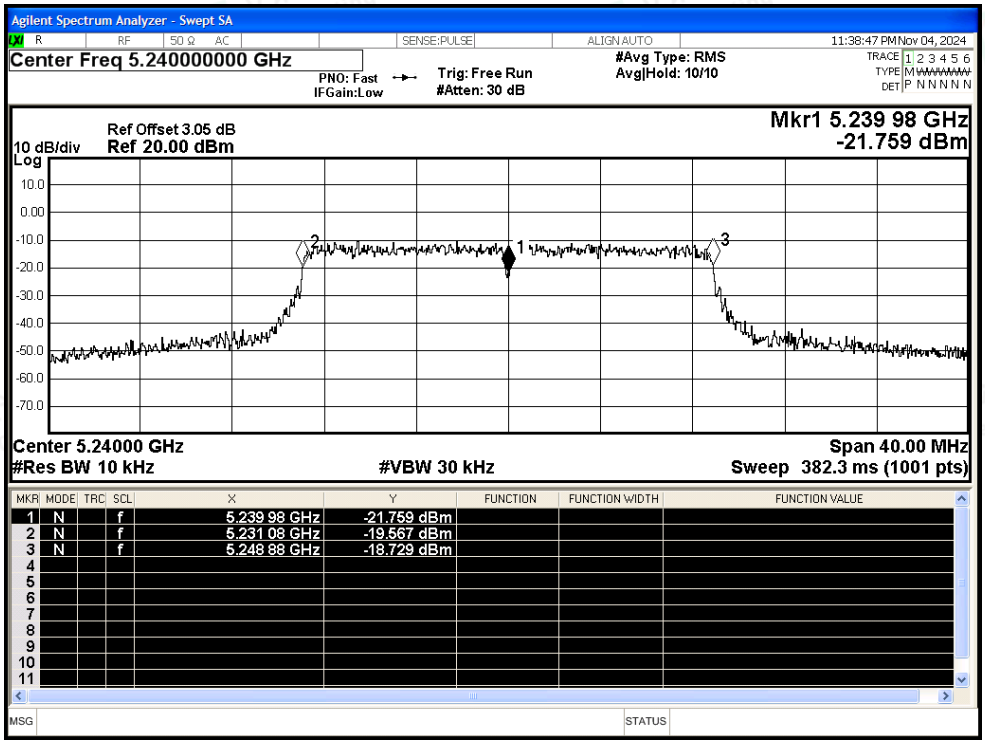
Freq. Stability NVNT ac20 5180MHz Ant0



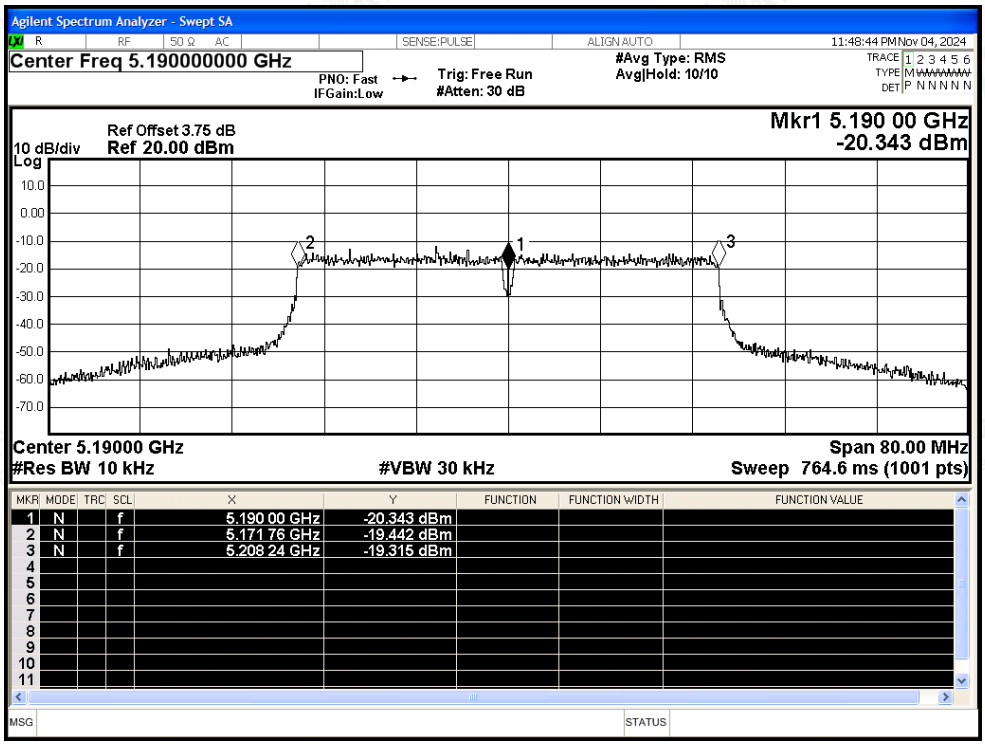

Freq. Stability NVNT ac20 5200MHz Ant0



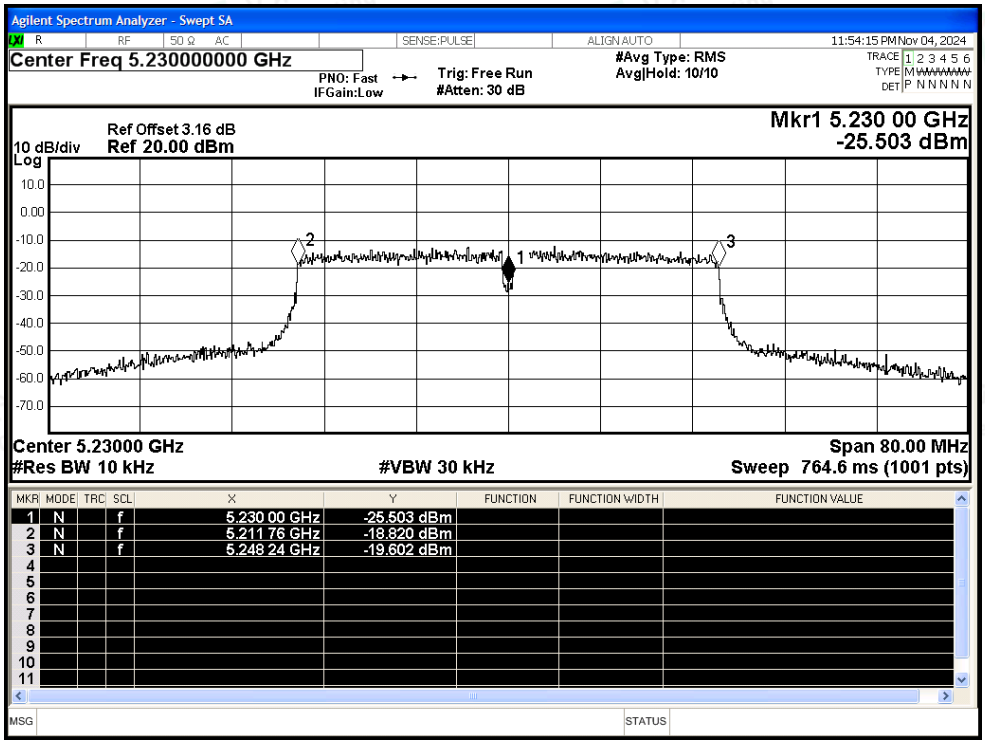
Freq. Stability NVNT ac20 5240MHz Ant0



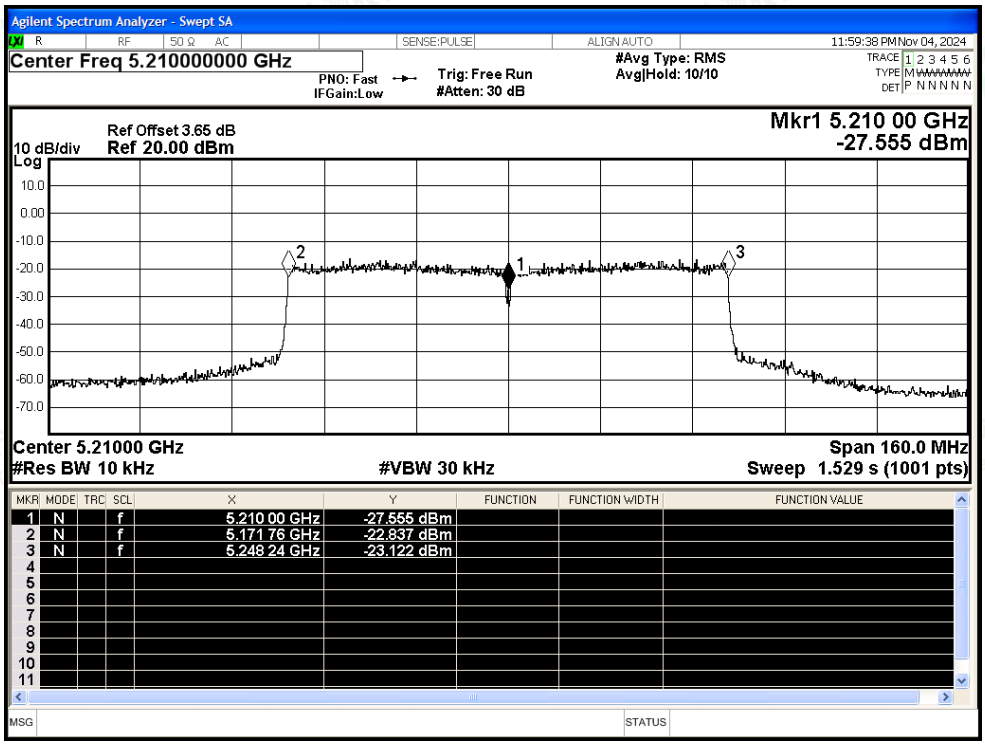

Freq. Stability NVNT ac40 5190MHz Ant0



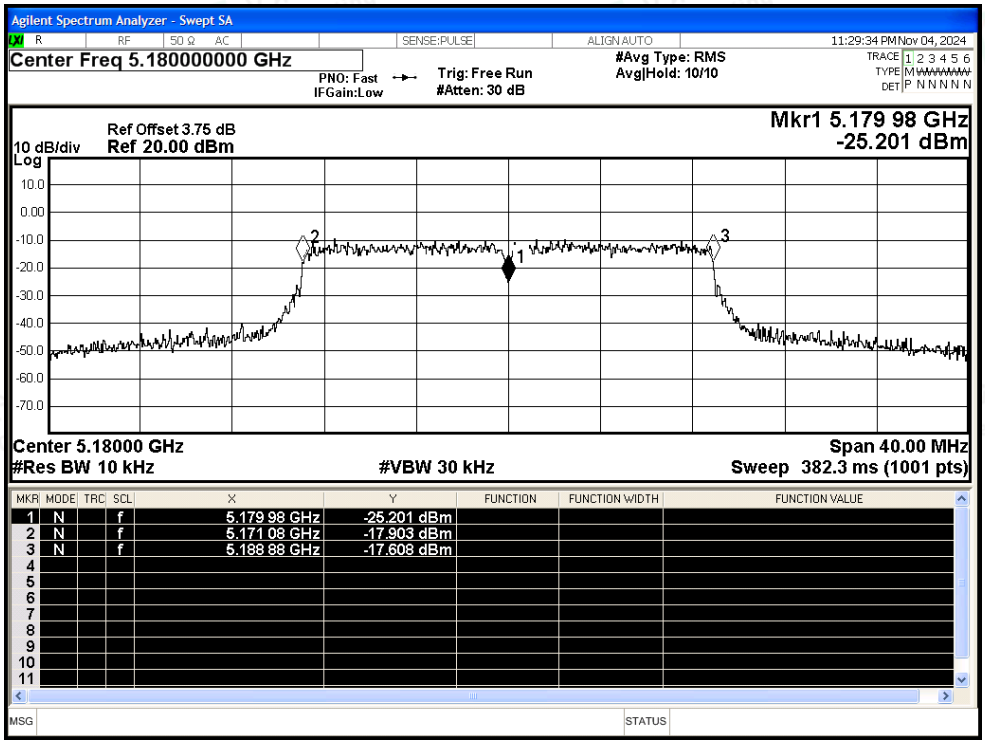
Freq. Stability NVNT ac40 5230MHz Ant0



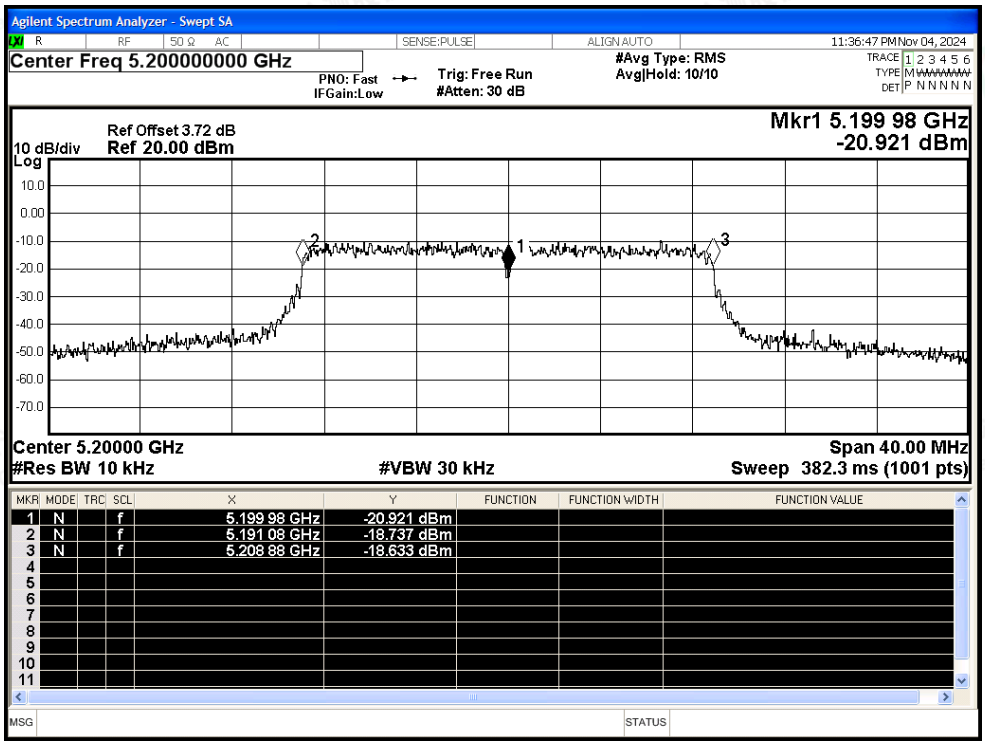

Freq. Stability NVNT ac80 5210MHz Ant0



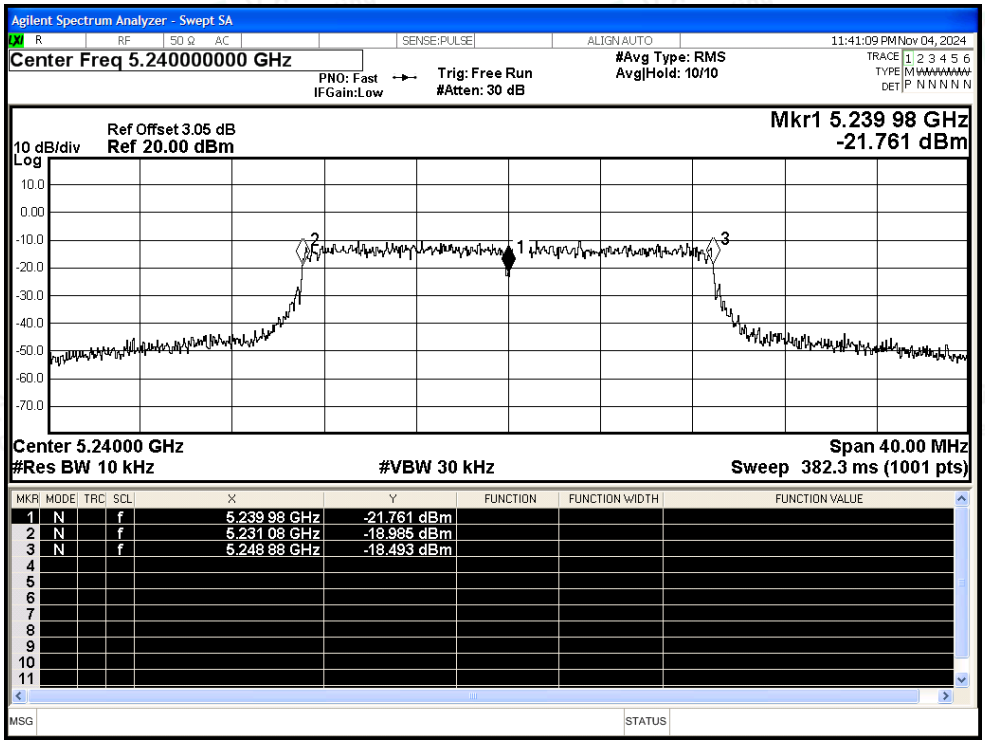
Freq. Stability NVNT ax20 5180MHz Ant0



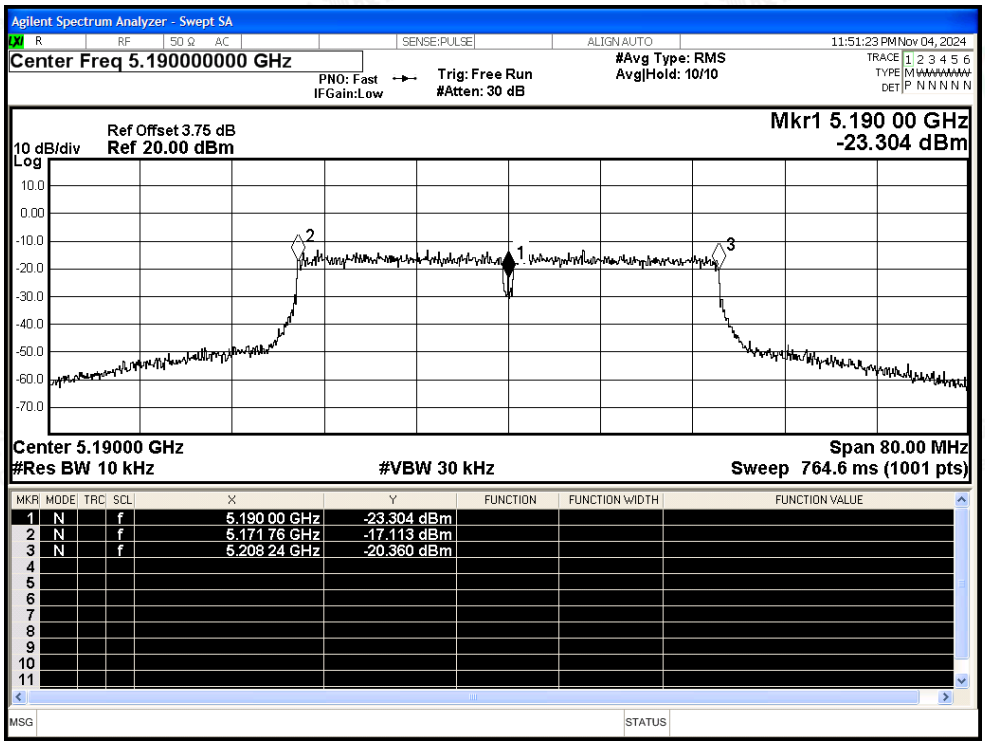

Freq. Stability NVNT ax20 5200MHz Ant0



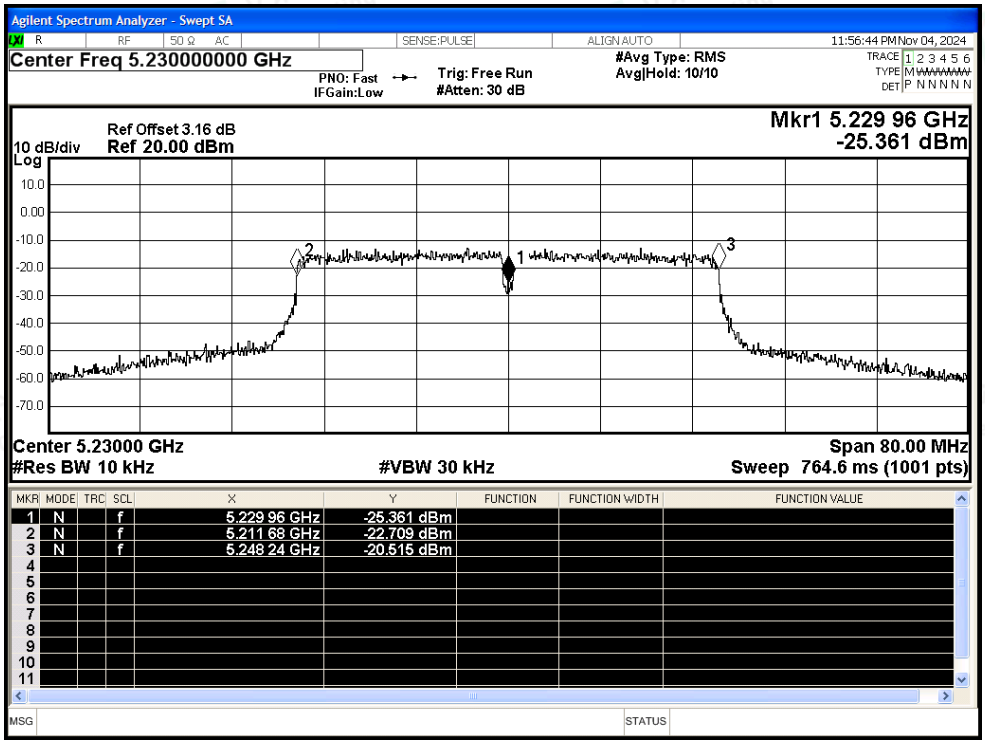
Freq. Stability NVNT ax20 5240MHz Ant0



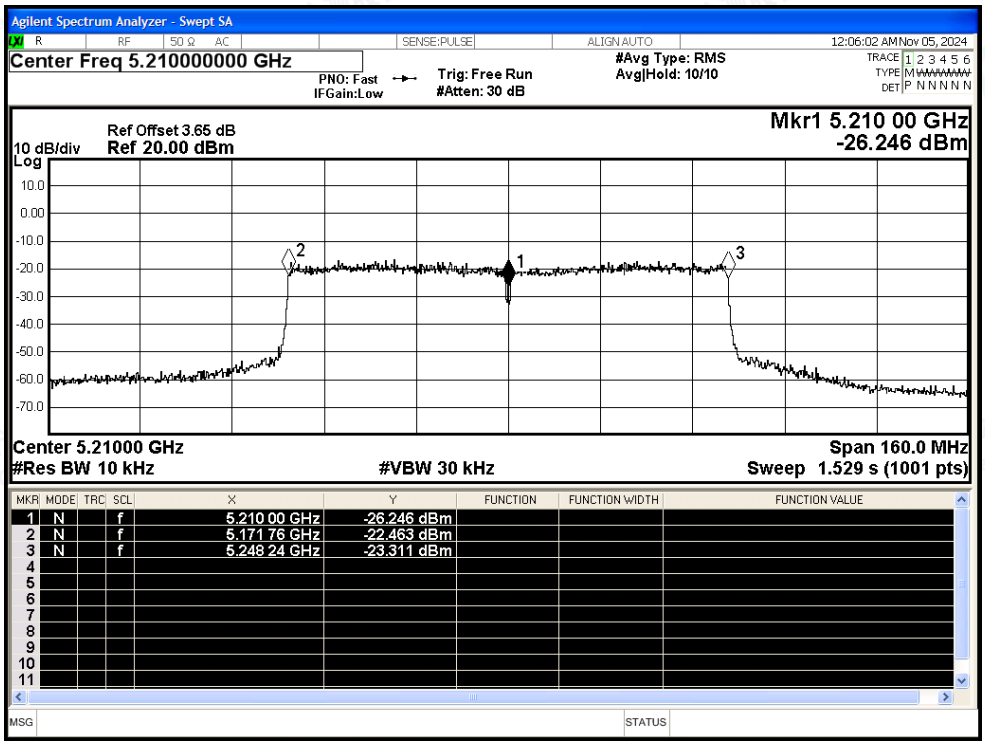

Freq. Stability NVNT ax40 5190MHz Ant0



Freq. Stability NVNT ax40 5230MHz Ant0



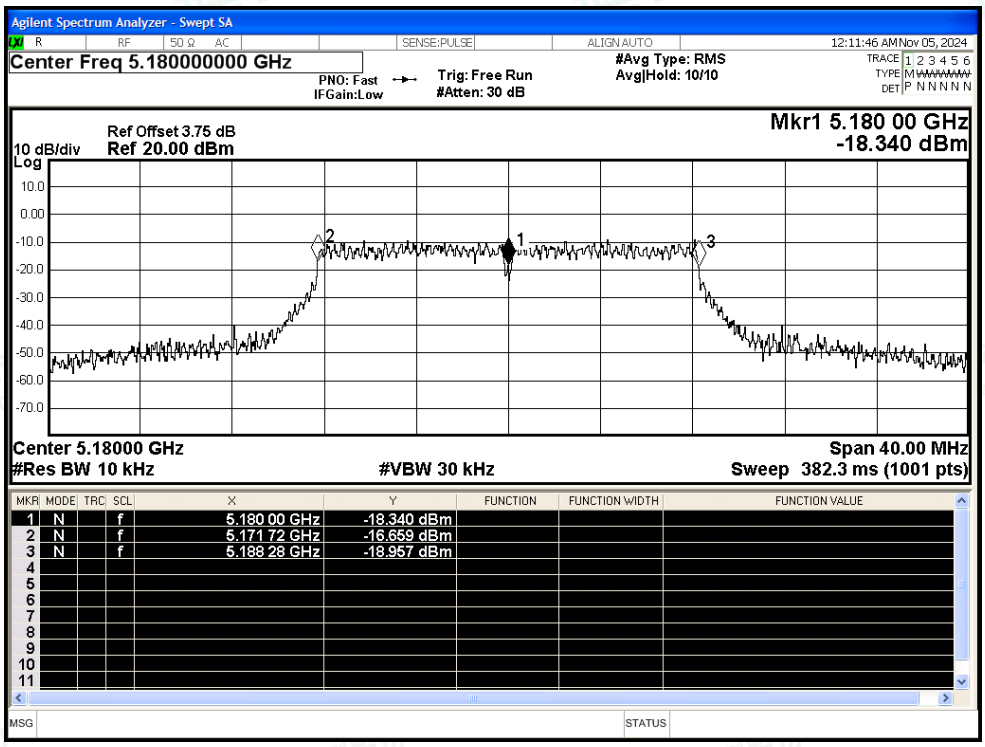

Freq. Stability NVNT ax80 5210MHz Ant0



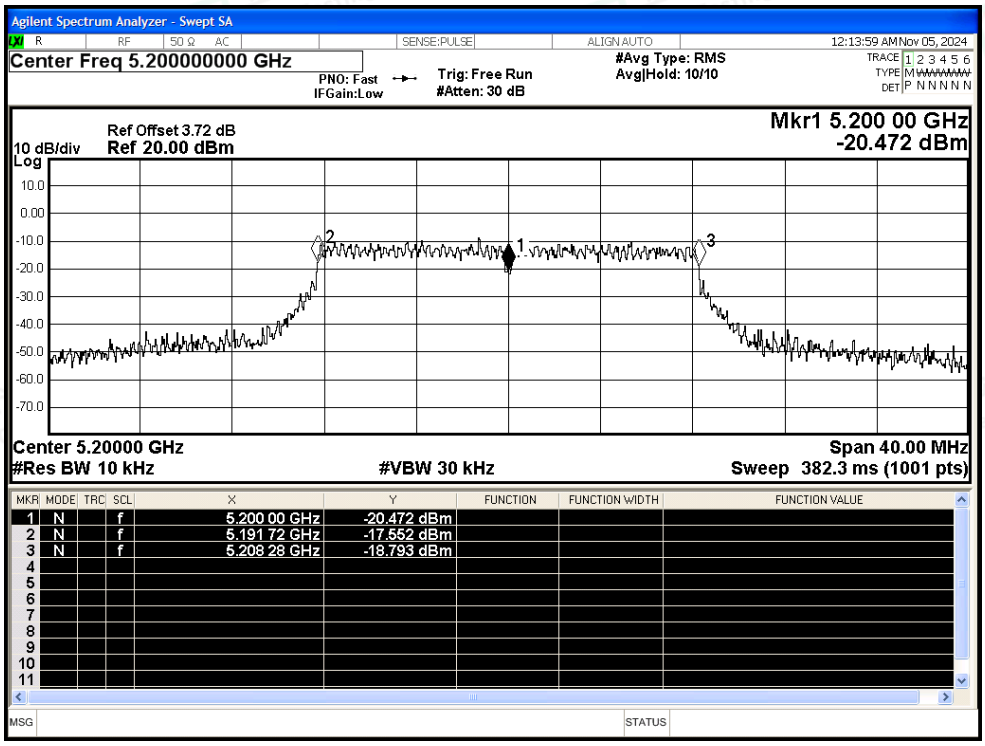
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| NVNT | a | 5200 | Ant1 | 5200 | 0 | 0 | 25 | Pass |
| NVNT | a | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| NVNT | n20 | 5180 | Ant1 | 5179.98 | -20000 | -3.86 | 25 | Pass |
| NVNT | n20 | 5200 | Ant1 | 5199.96 | -40000 | -7.69 | 25 | Pass |
| NVNT | n20 | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| NVNT | n40 | 5190 | Ant1 | 5190 | 0 | 0 | 25 | Pass |
| NVNT | n40 | 5230 | Ant1 | 5230 | 0 | 0 | 25 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 5199.98 | -20000 | -3.85 | 25 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5239.98 | -20000 | -3.82 | 25 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 5190 | 0 | 0 | 25 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5230 | 0 | 0 | 25 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5210 | 0 | 0 | 25 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| NVNT | ax20 | 5200 | Ant1 | 5199.98 | -20000 | -3.85 | 25 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5190 | 0 | 0 | 25 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5230 | 0 | 0 | 25 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5210 | 0 | 0 | 25 | Pass |

Test Graphs

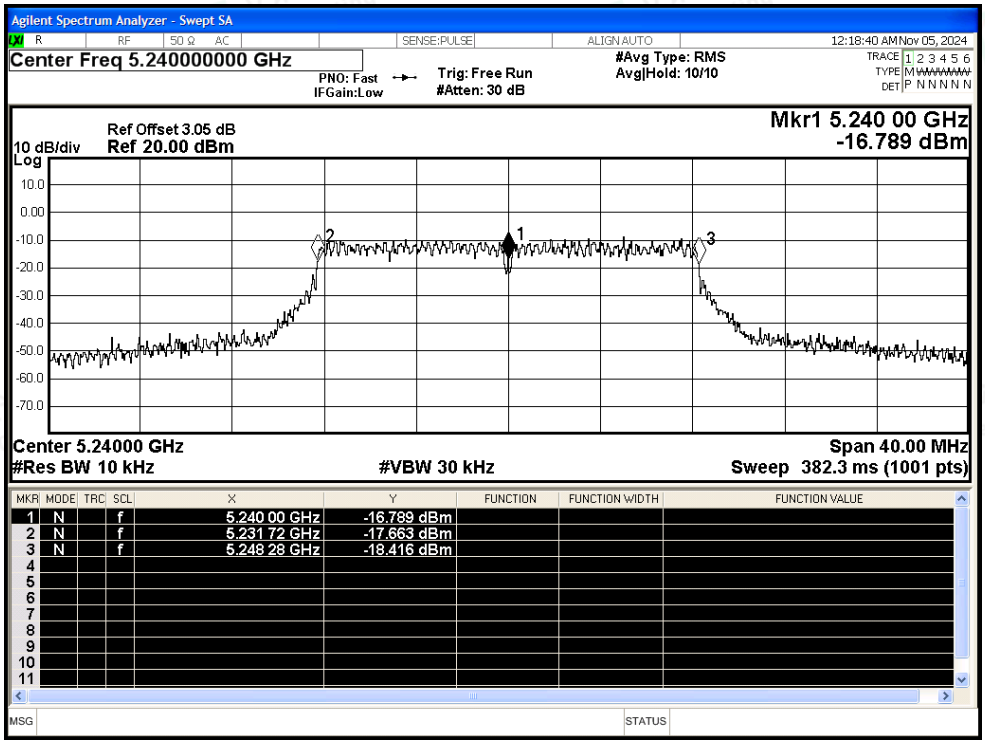
Freq. Stability NVNT a 5180MHz Ant1



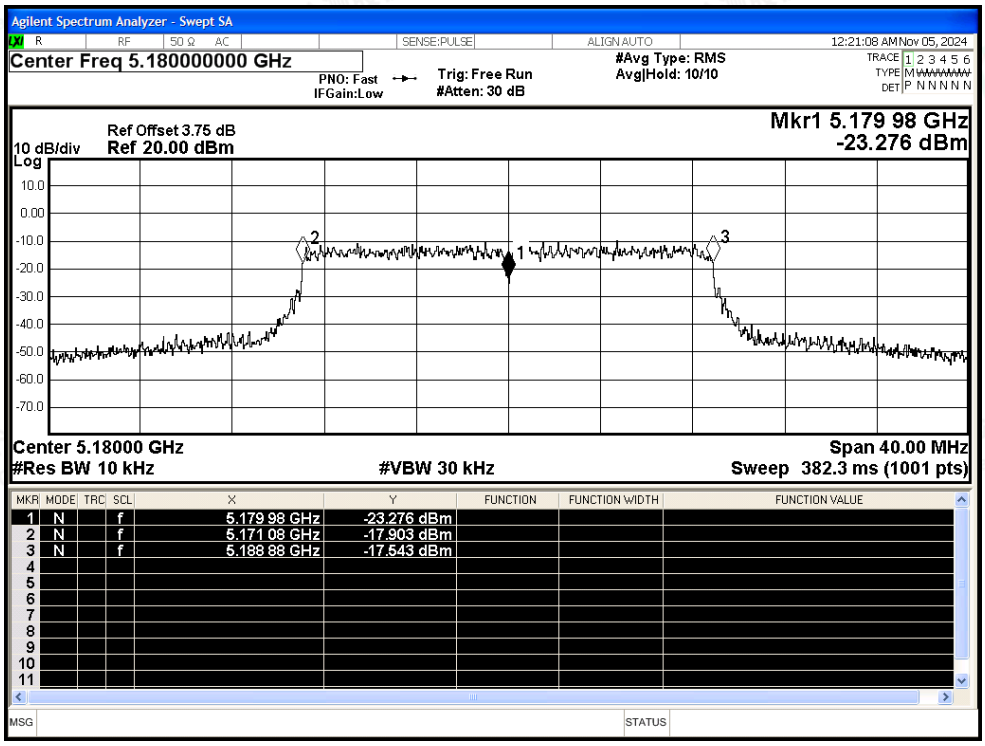

Freq. Stability NVNT a 5200MHz Ant1



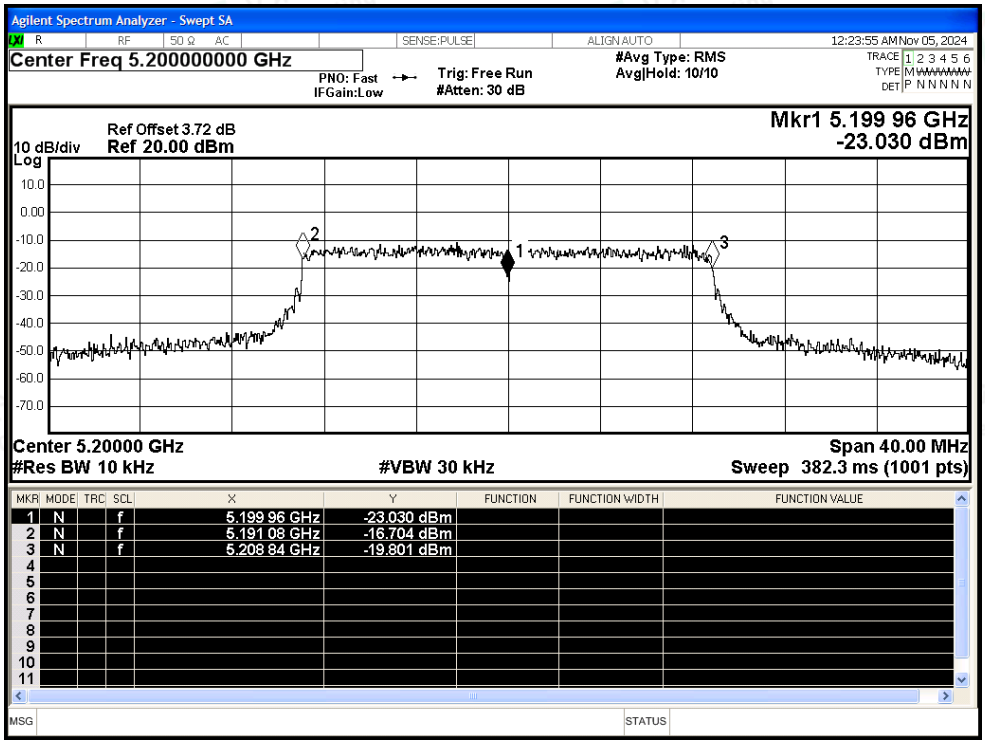
Freq. Stability NVNT a 5240MHz Ant1



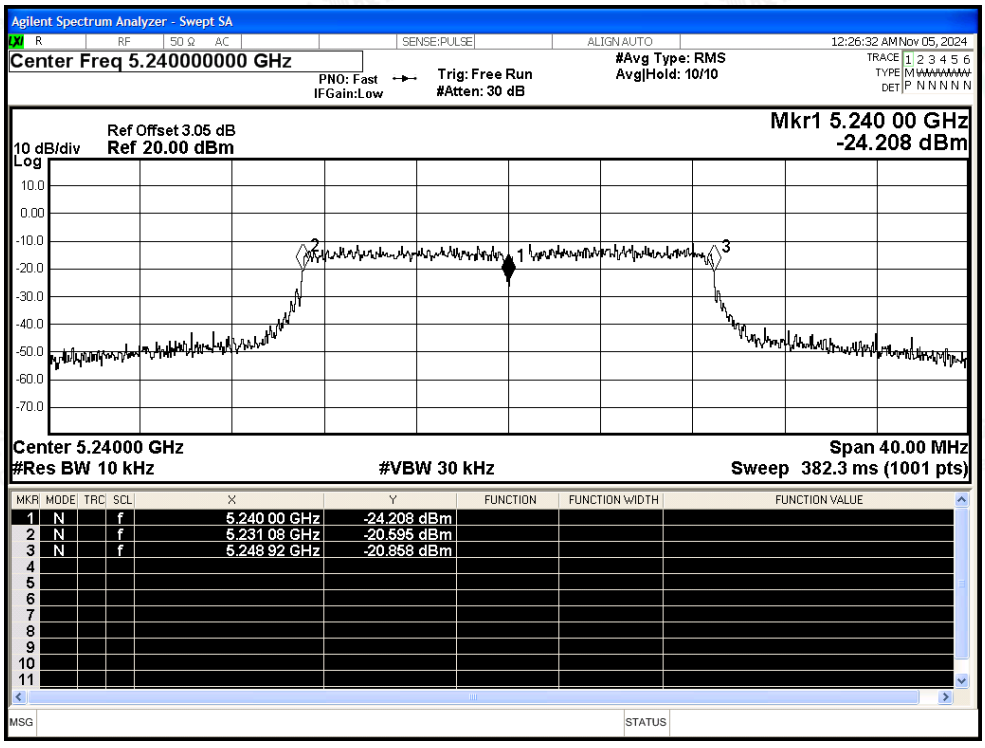

Freq. Stability NVNT n20 5180MHz Ant1



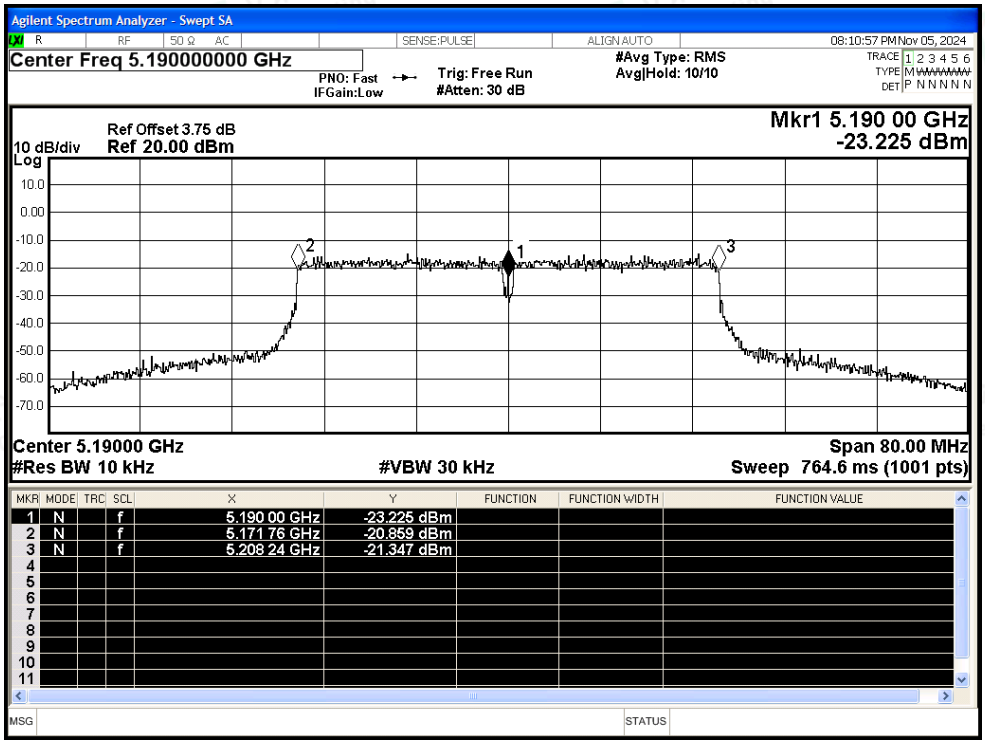
Freq. Stability NVNT n20 5200MHz Ant1



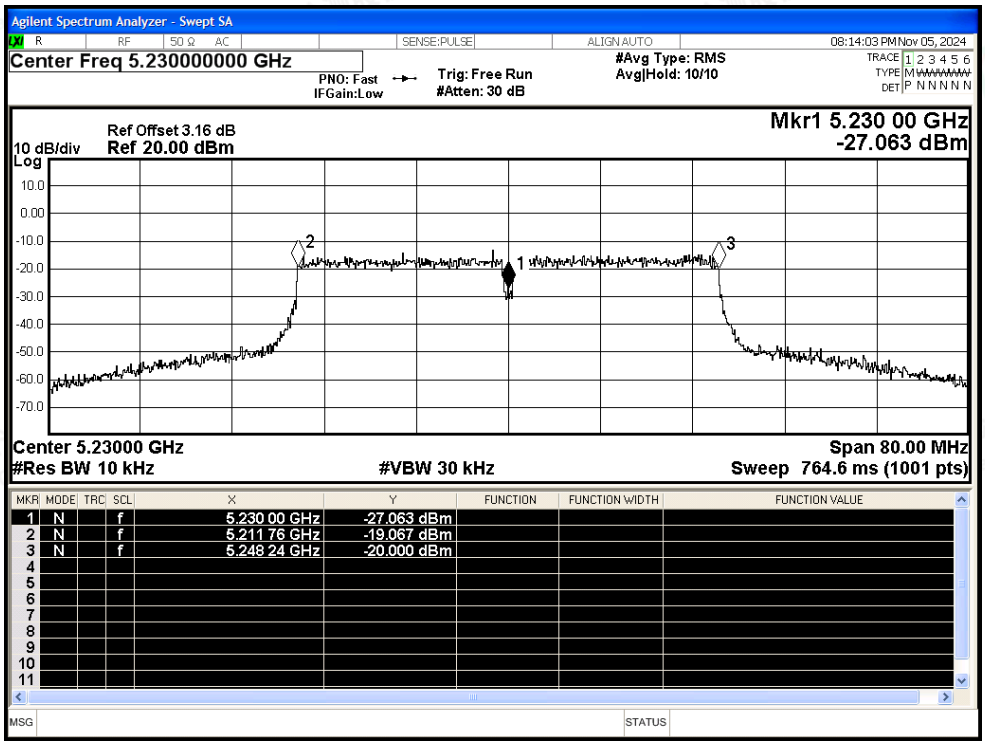

Freq. Stability NVNT n20 5240MHz Ant1



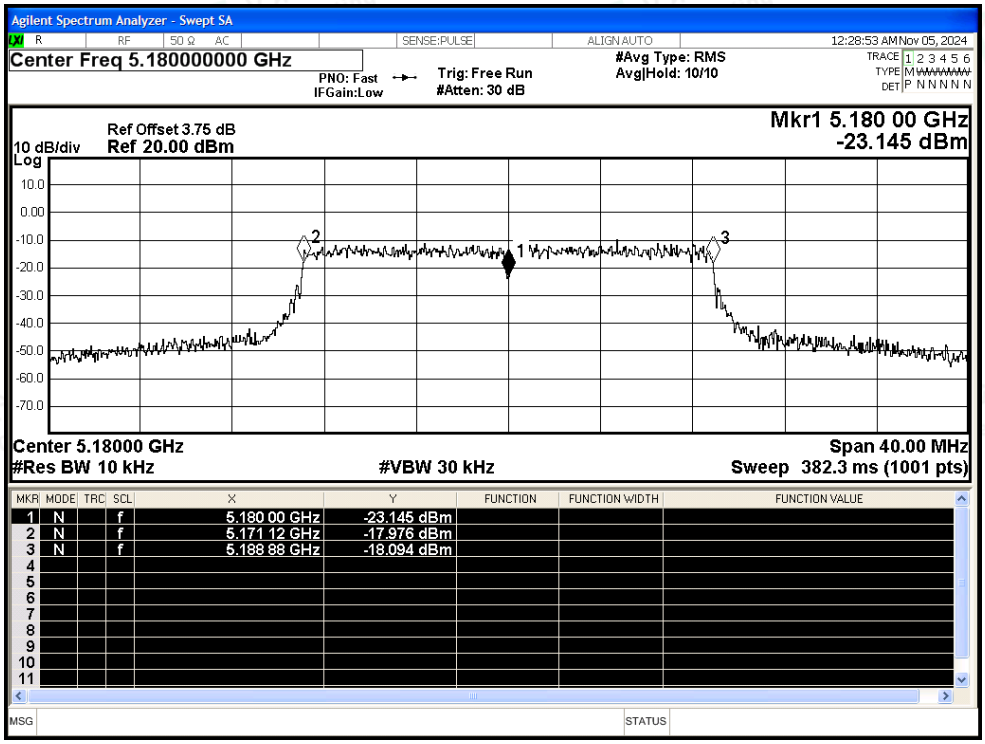
Freq. Stability NVNT n40 5190MHz Ant1



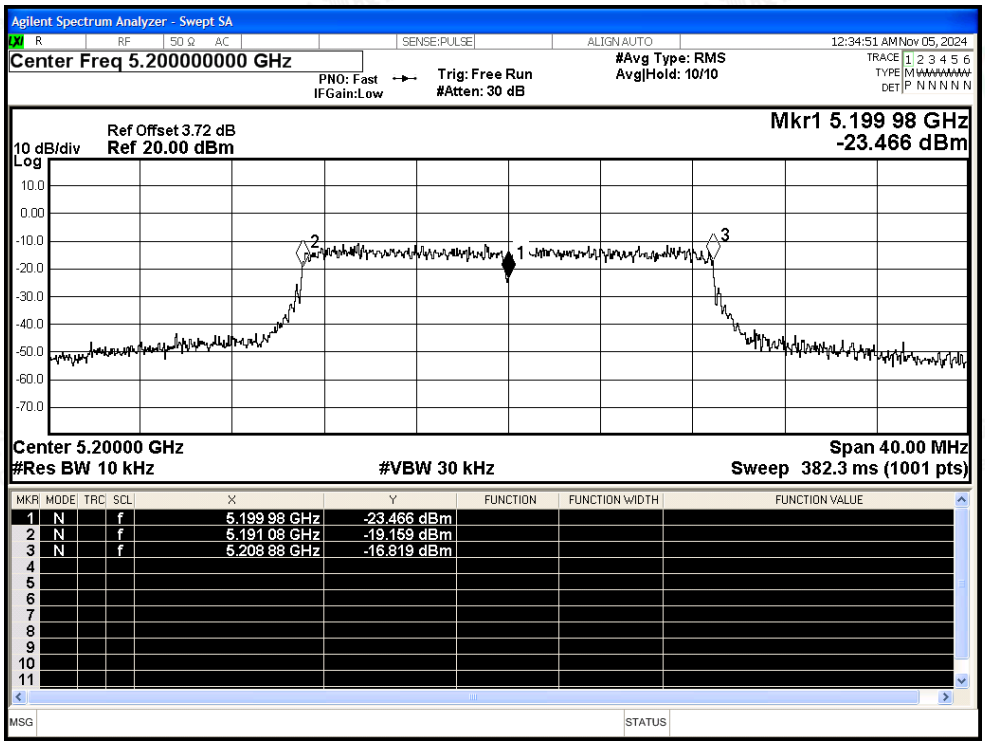

Freq. Stability NVNT n40 5230MHz Ant1



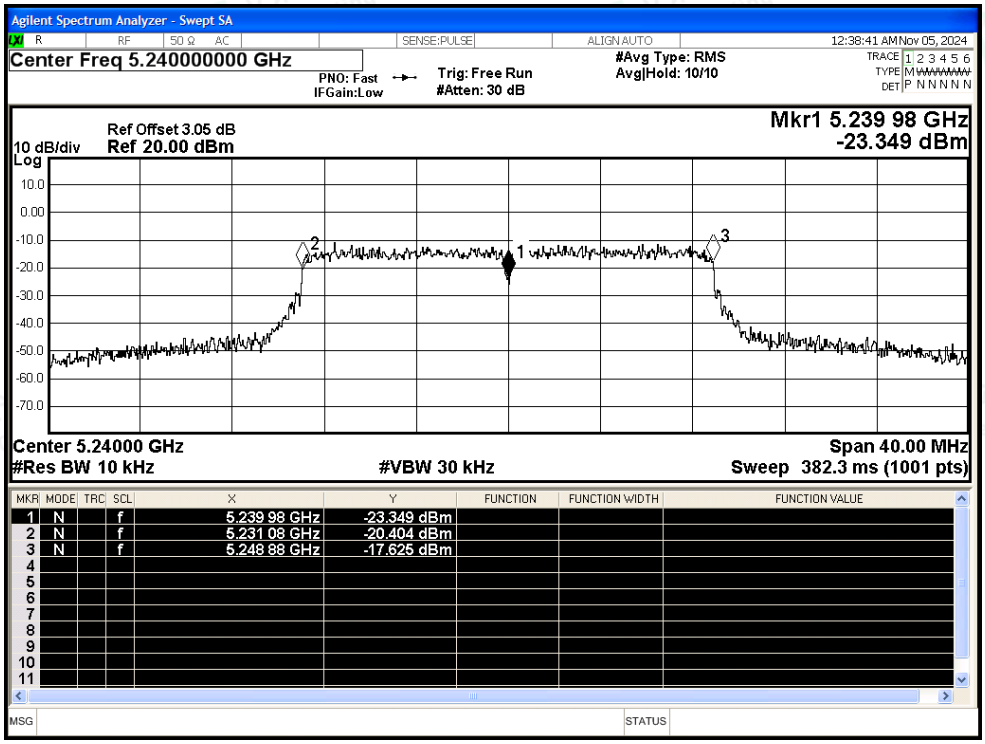
Freq. Stability NVNT ac20 5180MHz Ant1



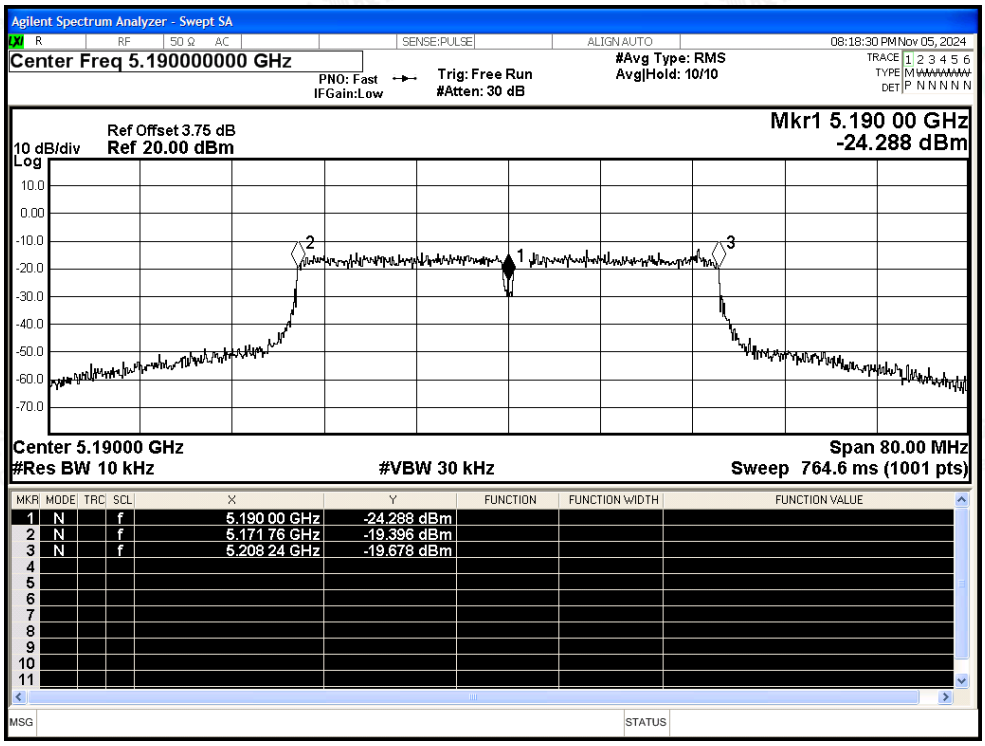

Freq. Stability NVNT ac20 5200MHz Ant1



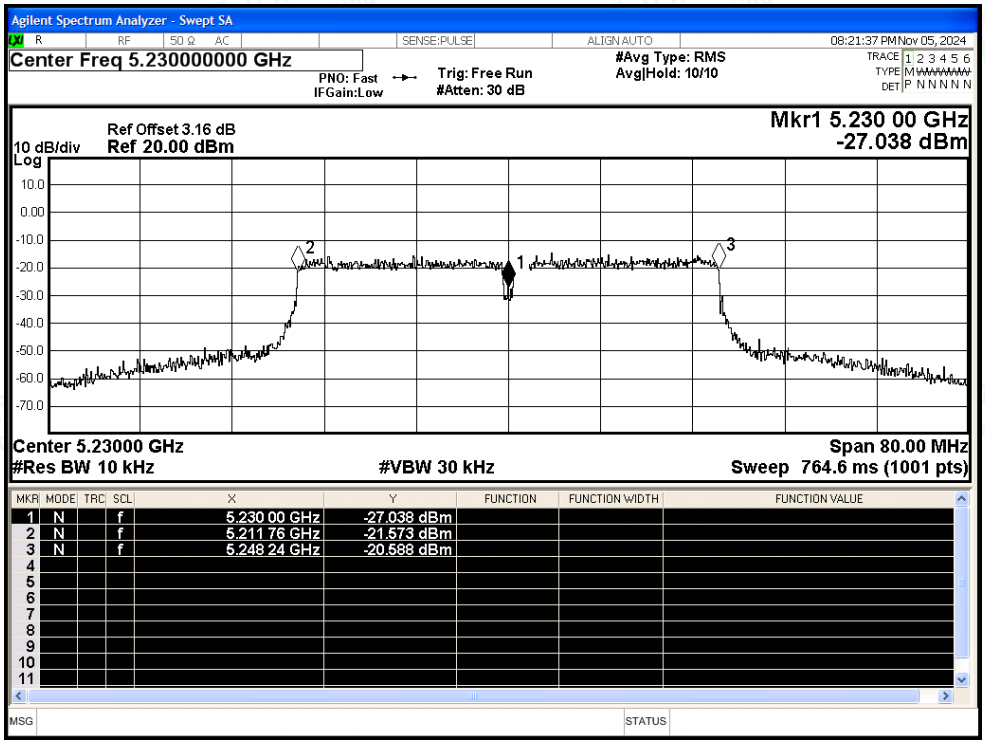
Freq. Stability NVNT ac20 5240MHz Ant1



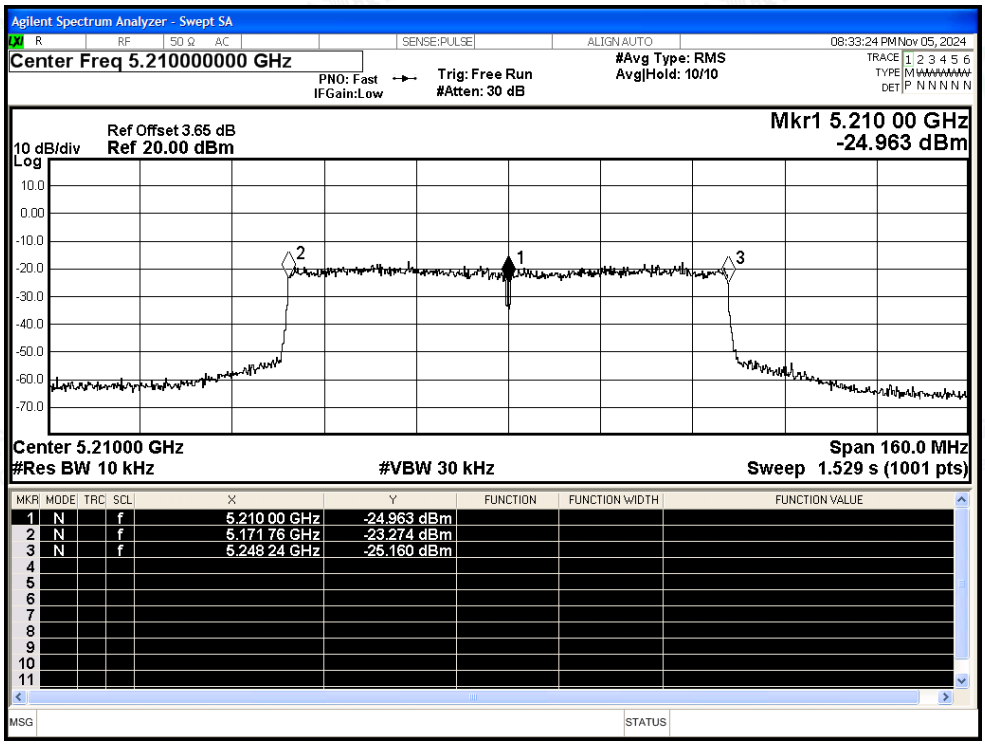

Freq. Stability NVNT ac40 5190MHz Ant1



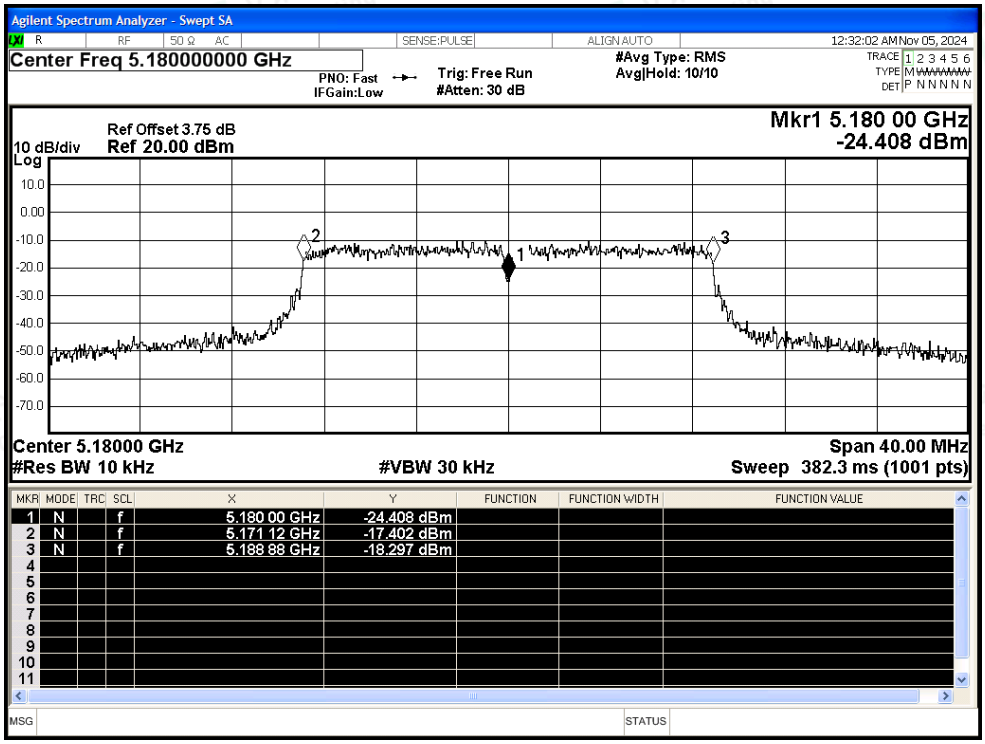
Freq. Stability NVNT ac40 5230MHz Ant1



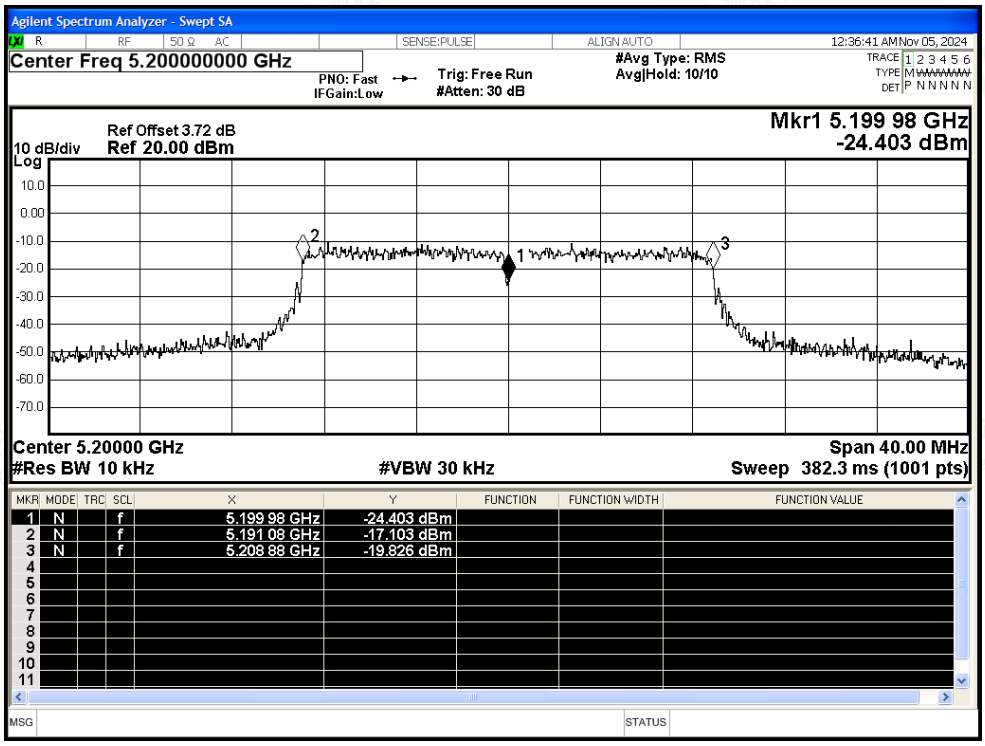

Freq. Stability NVNT ac80 5210MHz Ant1



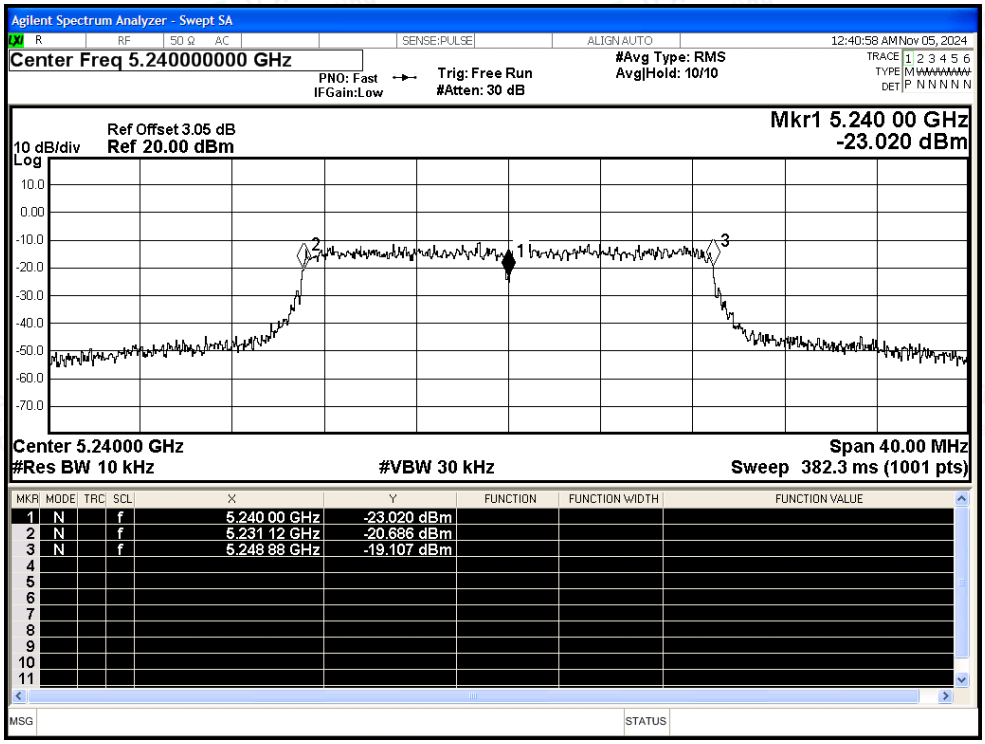
Freq. Stability NVNT ax20 5180MHz Ant1



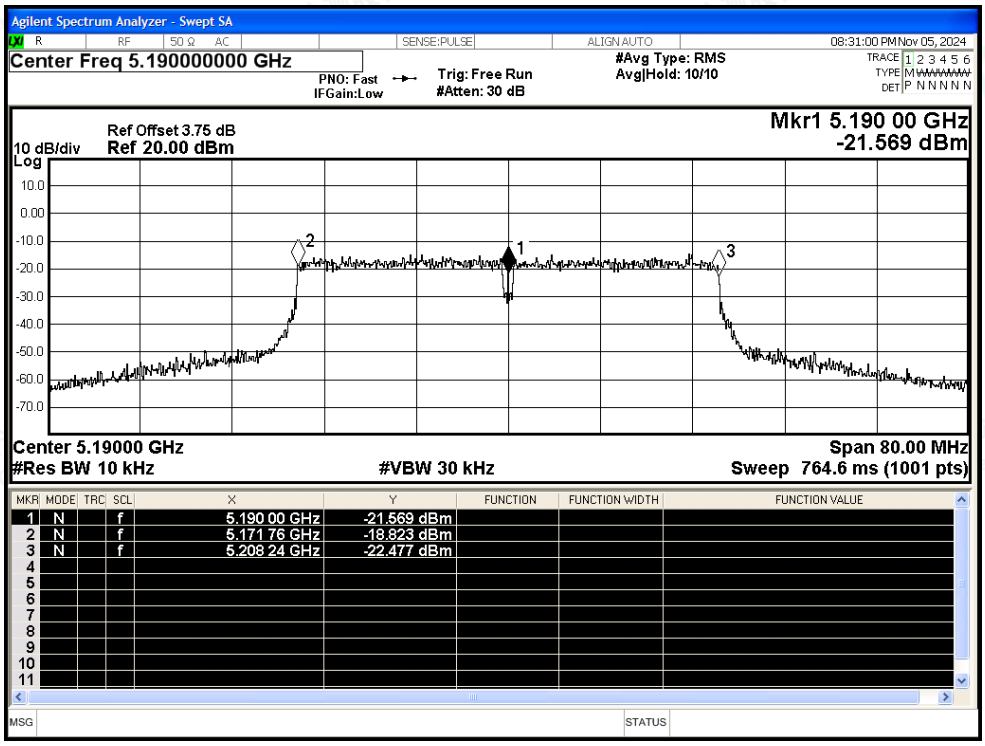

Freq. Stability NVNT ax20 5200MHz Ant1



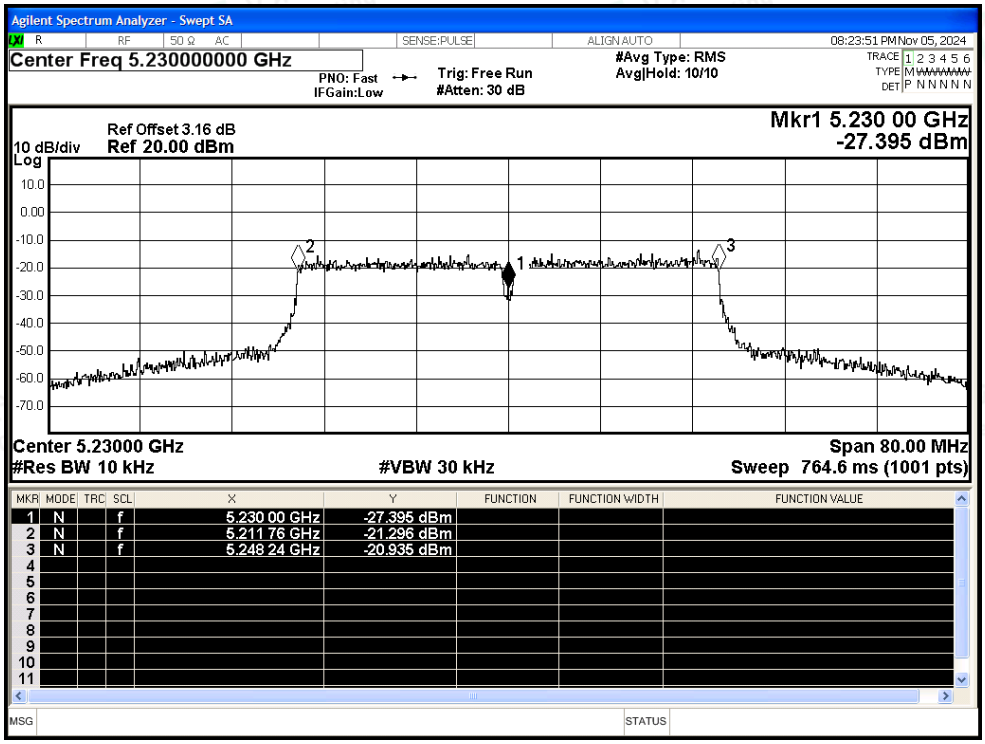
Freq. Stability NVNT ax20 5240MHz Ant1



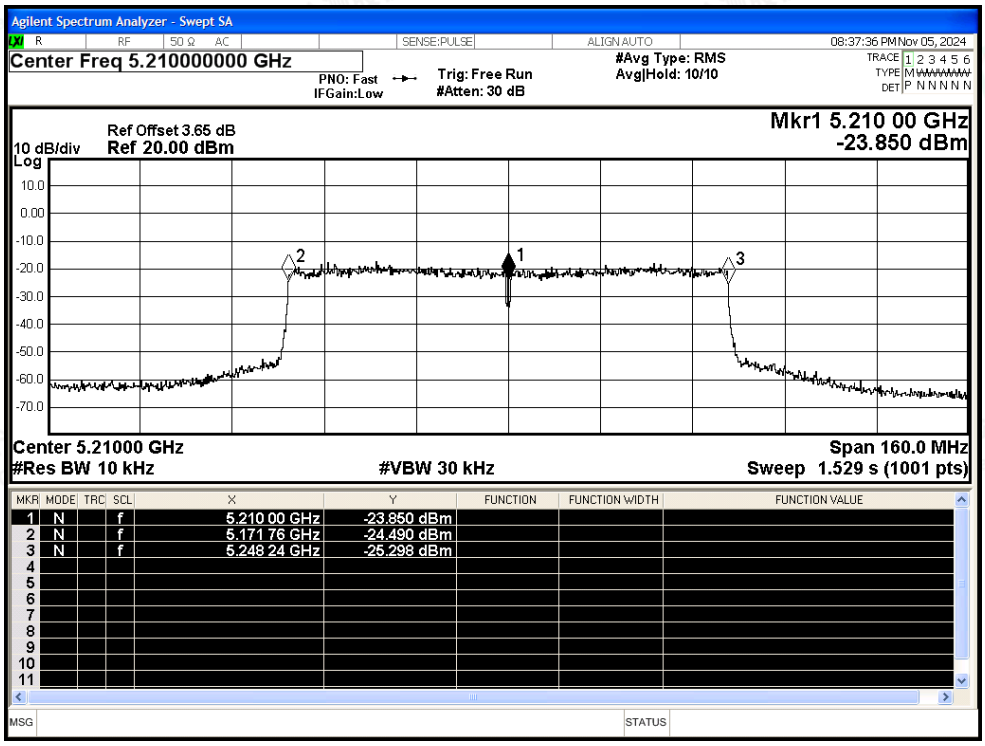

Freq. Stability NVNT ax40 5190MHz Ant1



Freq. Stability NVNT ax40 5230MHz Ant1




Freq. Stability NVNT ax80 5210MHz Ant1

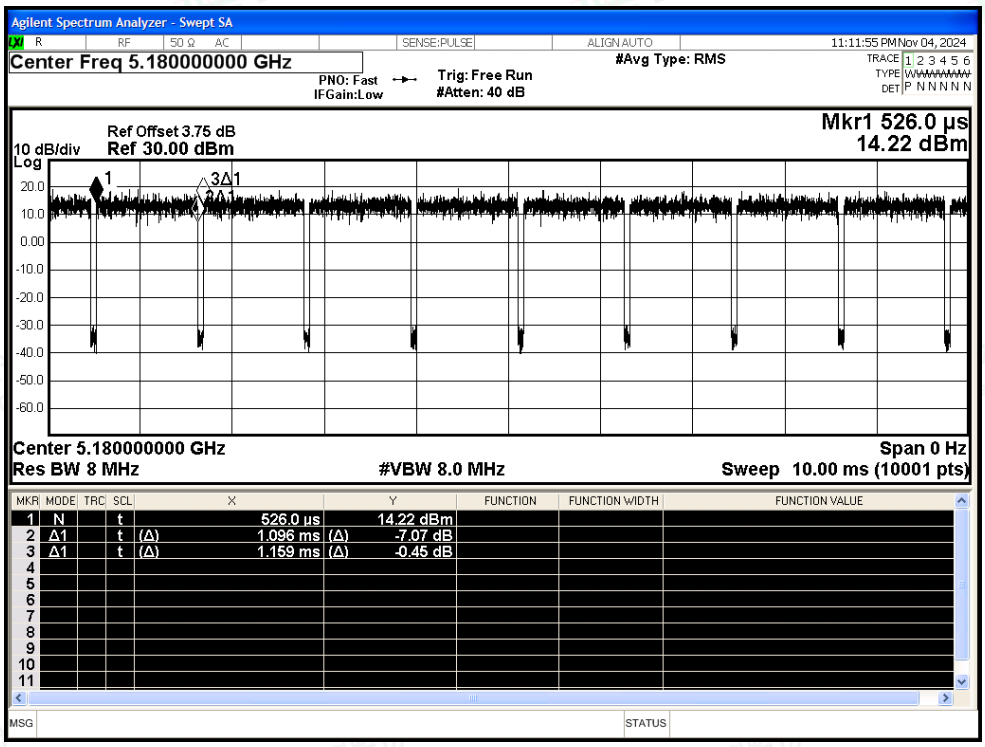


# D.6 Duty Cycle

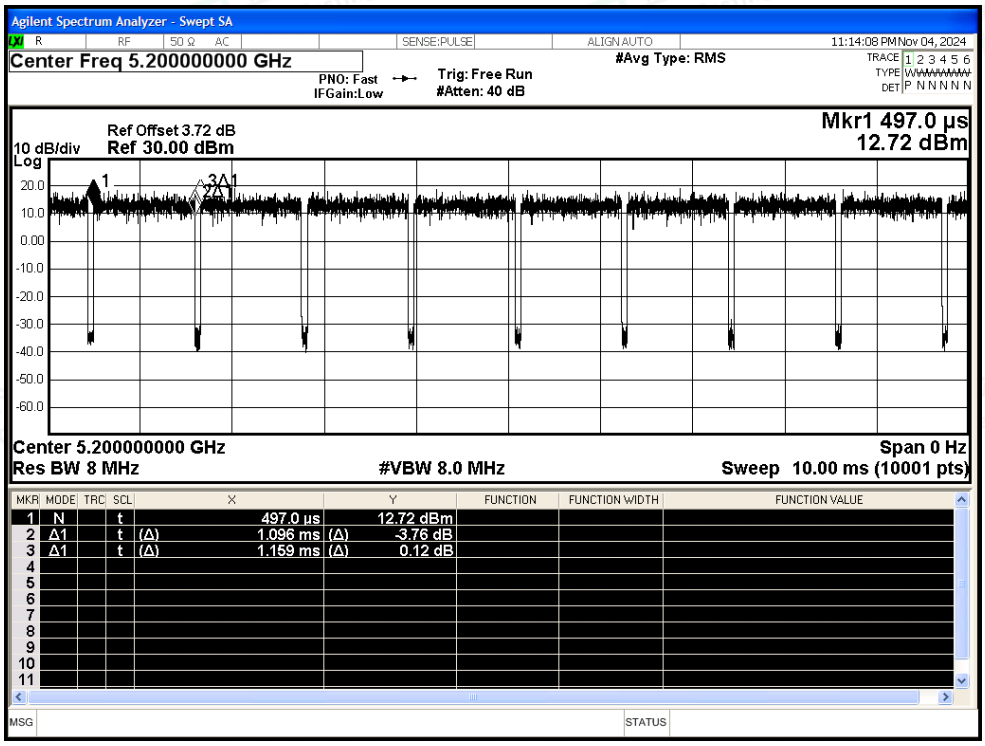
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant0 | 94.56 | 0.24 | 0.91 |
| NVNT | a | 5200 | Ant0 | 94.56 | 0.24 | 0.91 |
| NVNT | a | 5240 | Ant0 | 94.56 | 0.24 | 0.91 |
| NVNT | n20 | 5180 | Ant0 | 97.33 | 0.12 | 0.44 |
| NVNT | n20 | 5200 | Ant0 | 97.29 | 0.12 | 0.44 |
| NVNT | n20 | 5240 | Ant0 | 97.33 | 0.12 | 0.44 |
| NVNT | n40 | 5190 | Ant0 | 94.71 | 0.24 | 0.9 |
| NVNT | n40 | 5230 | Ant0 | 94.79 | 0.23 | 0.9 |
| NVNT | ac20 | 5180 | Ant0 | 97.34 | 0.12 | 0.44 |
| NVNT | ac20 | 5200 | Ant0 | 97.34 | 0.12 | 0.44 |
| NVNT | ac20 | 5240 | Ant0 | 97.34 | 0.12 | 0.44 |
| NVNT | ac40 | 5190 | Ant0 | 94.72 | 0.24 | 0.9 |
| NVNT | ac40 | 5230 | Ant0 | 94.72 | 0.24 | 0.9 |
| NVNT | ac80 | 5210 | Ant0 | 94.32 | 0.25 | 0.97 |
| NVNT | ax20 | 5180 | Ant0 | 97.34 | 0.12 | 0.44 |
| NVNT | ax20 | 5200 | Ant0 | 97.34 | 0.12 | 0.44 |
| NVNT | ax20 | 5240 | Ant0 | 97.34 | 0.12 | 0.44 |
| NVNT | ax40 | 5190 | Ant0 | 94.81 | 0.23 | 0.9 |
| NVNT | ax40 | 5230 | Ant0 | 94.72 | 0.24 | 0.9 |
| NVNT | ax80 | 5210 | Ant0 | 94.32 | 0.25 | 0.97 |

Test Graphs

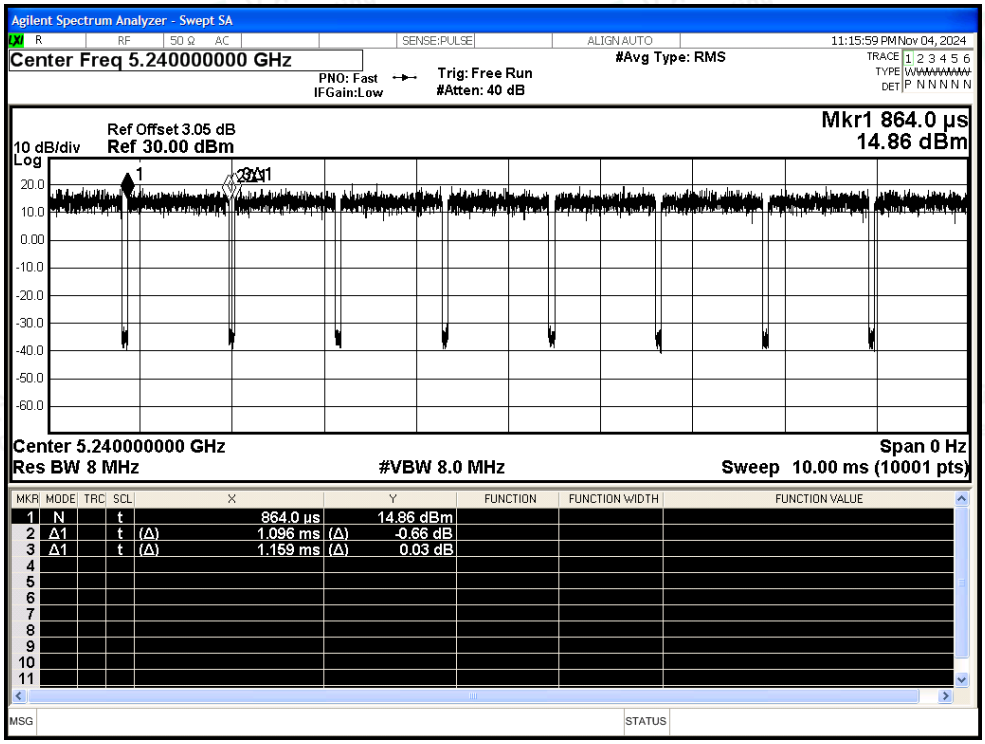
Duty Cycle NVNT a 5180MHz Ant0



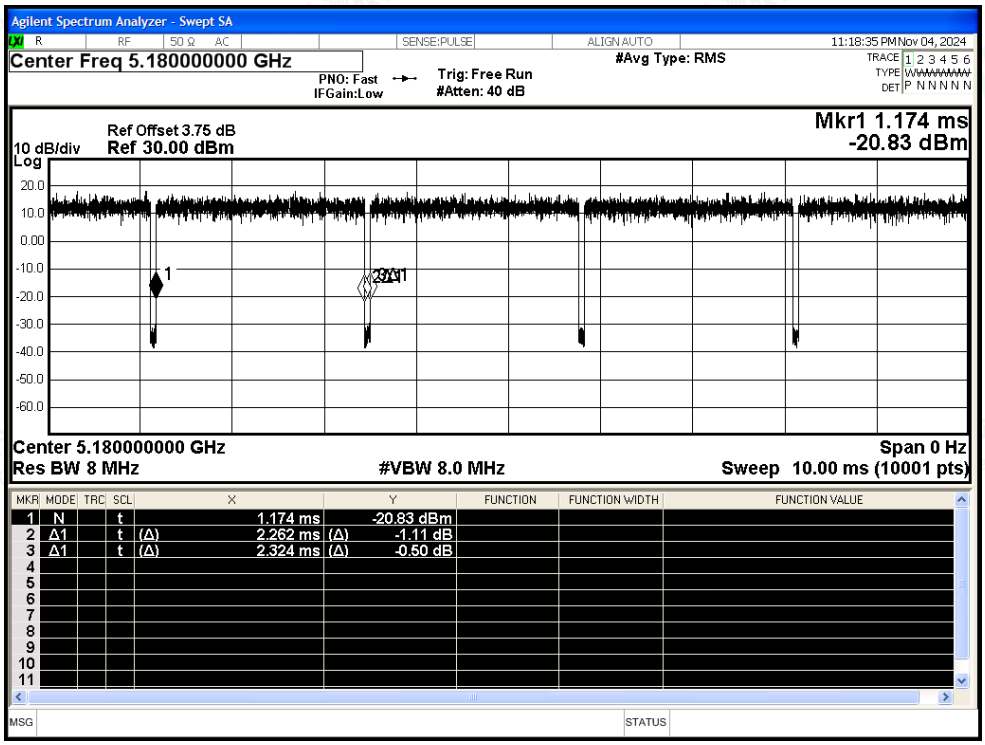

Duty Cycle NVNT a 5200MHz Ant0



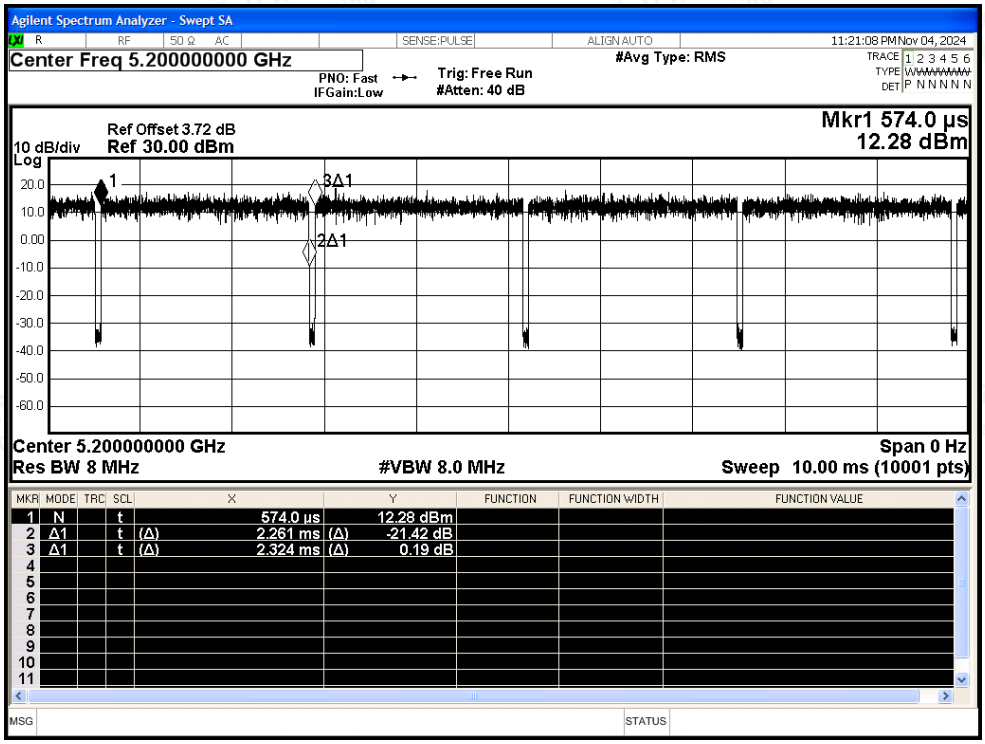
Duty Cycle NVNT a 5240MHz Ant0



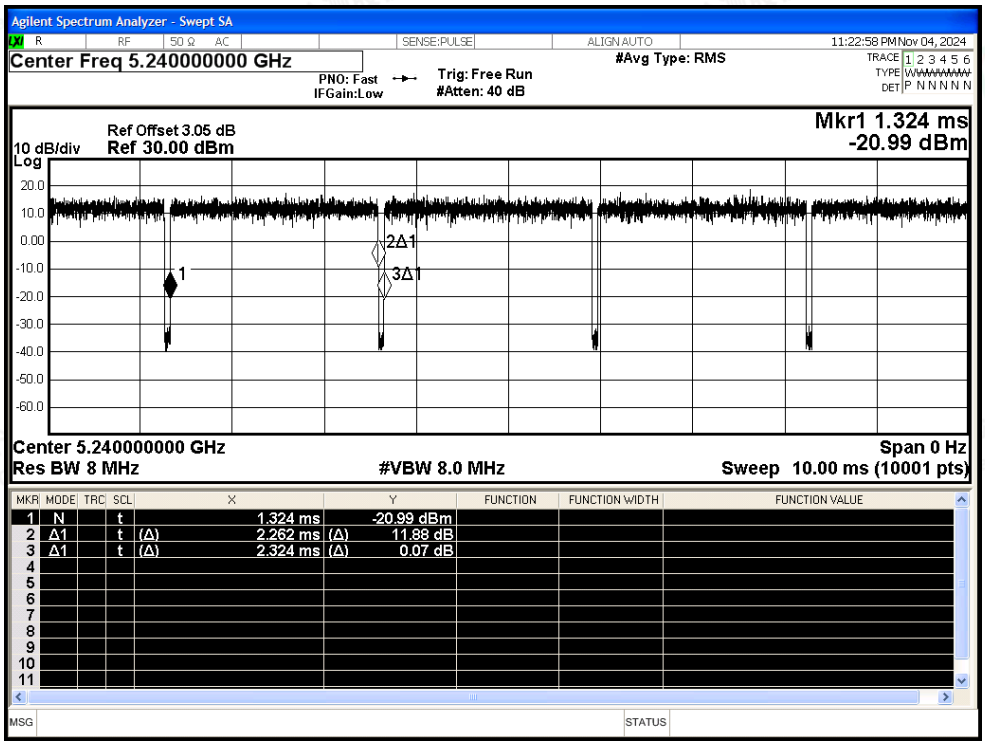

Duty Cycle NVNT n20 5180MHz Ant0



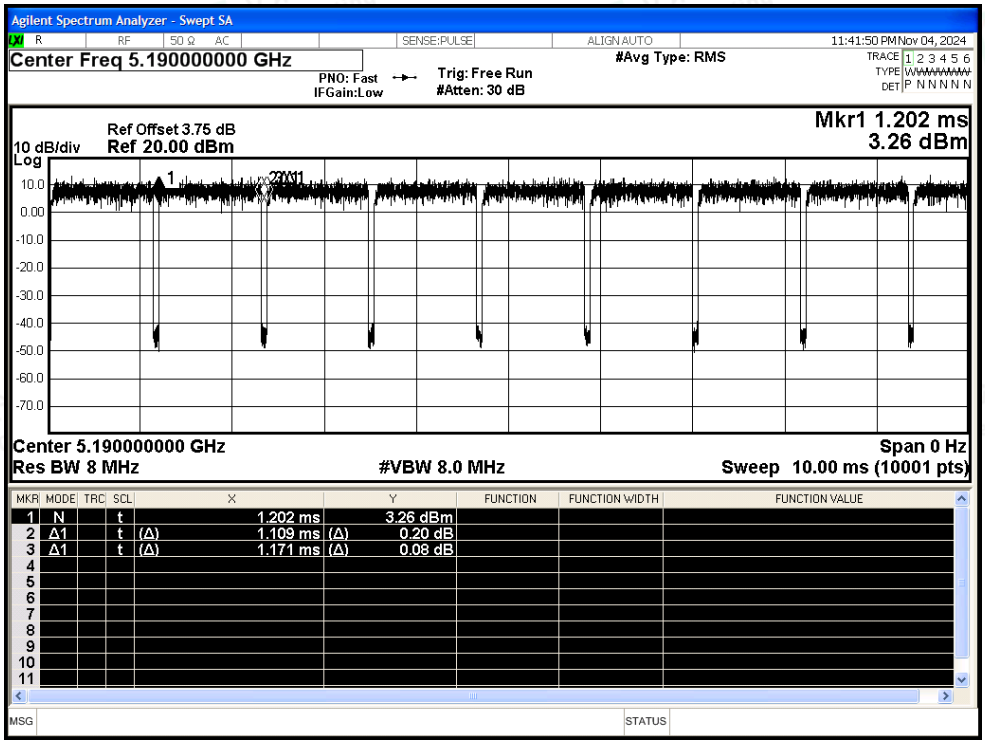
Duty Cycle NVNT n20 5200MHz Ant0



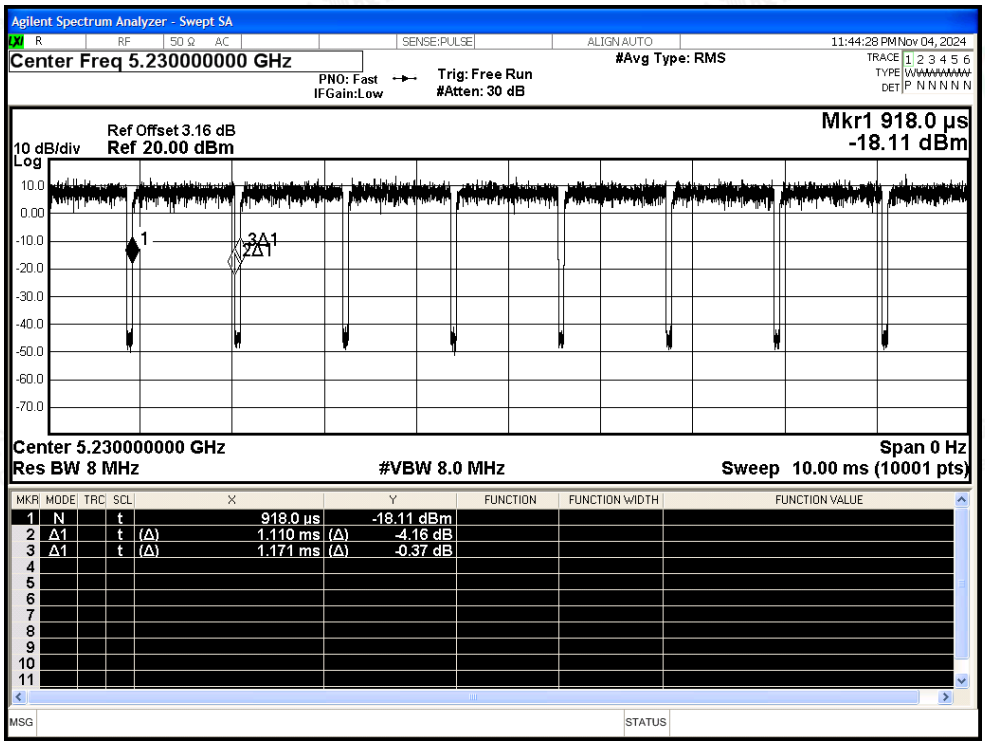

Duty Cycle NVNT n20 5240MHz Ant0



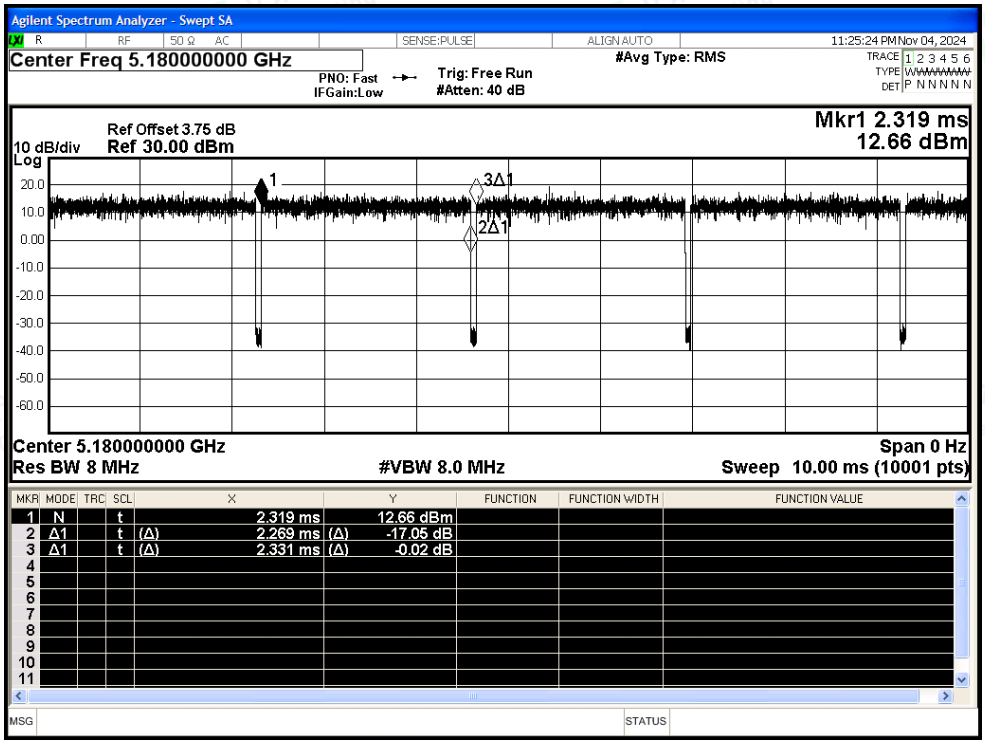
Duty Cycle NVNT n40 5190MHz Ant0



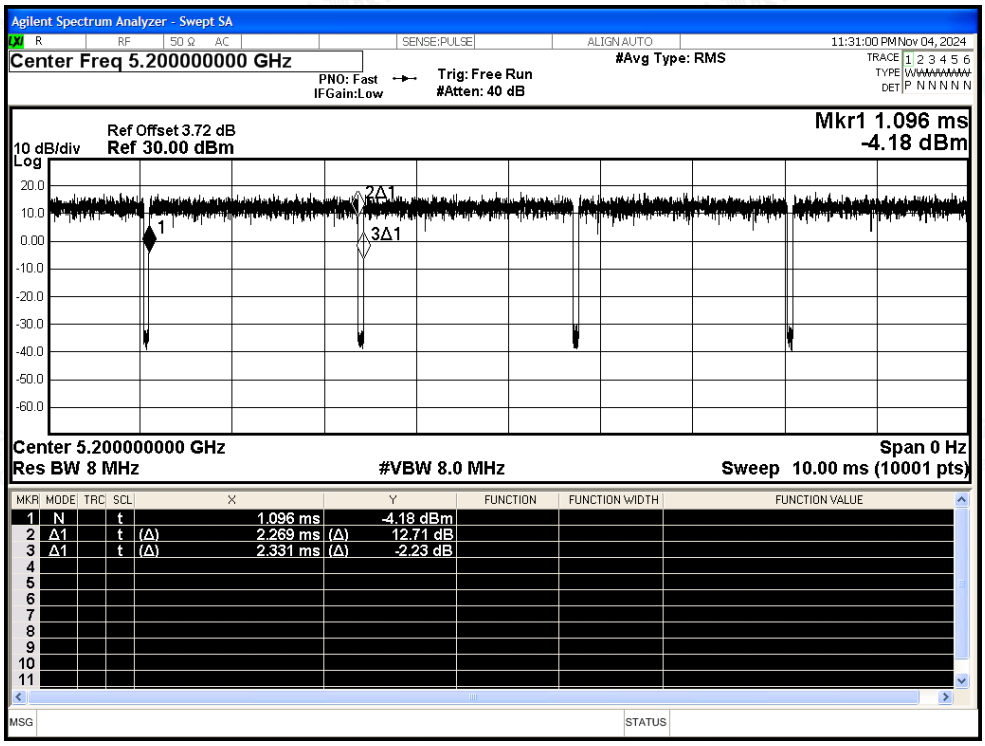

Duty Cycle NVNT n40 5230MHz Ant0



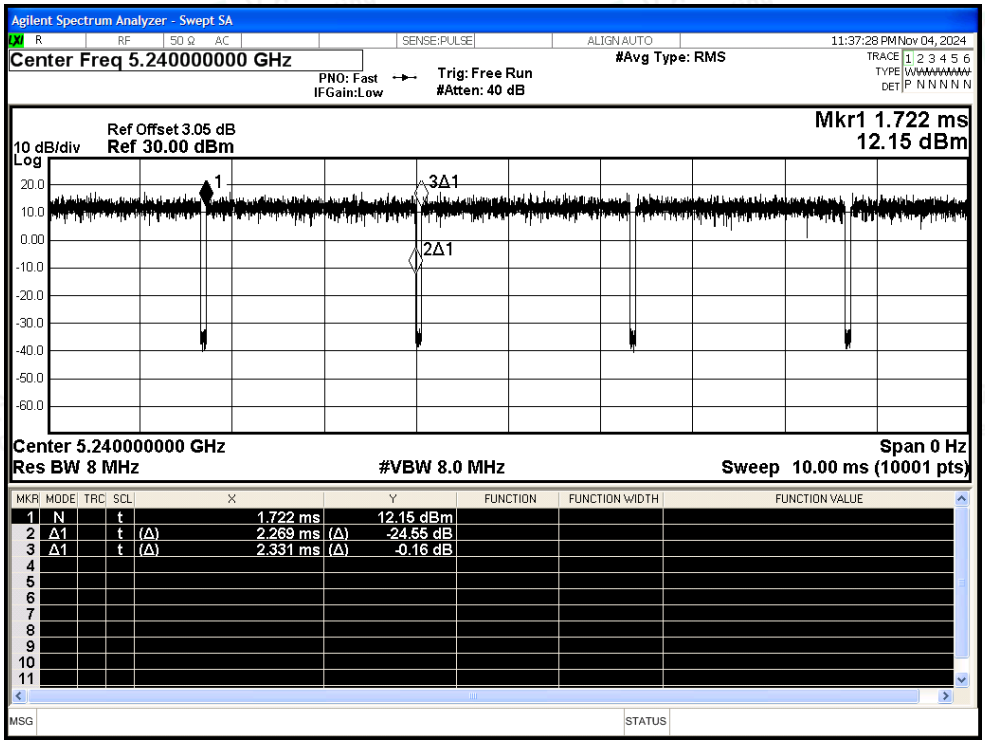
Duty Cycle NVNT ac20 5180MHz Ant0



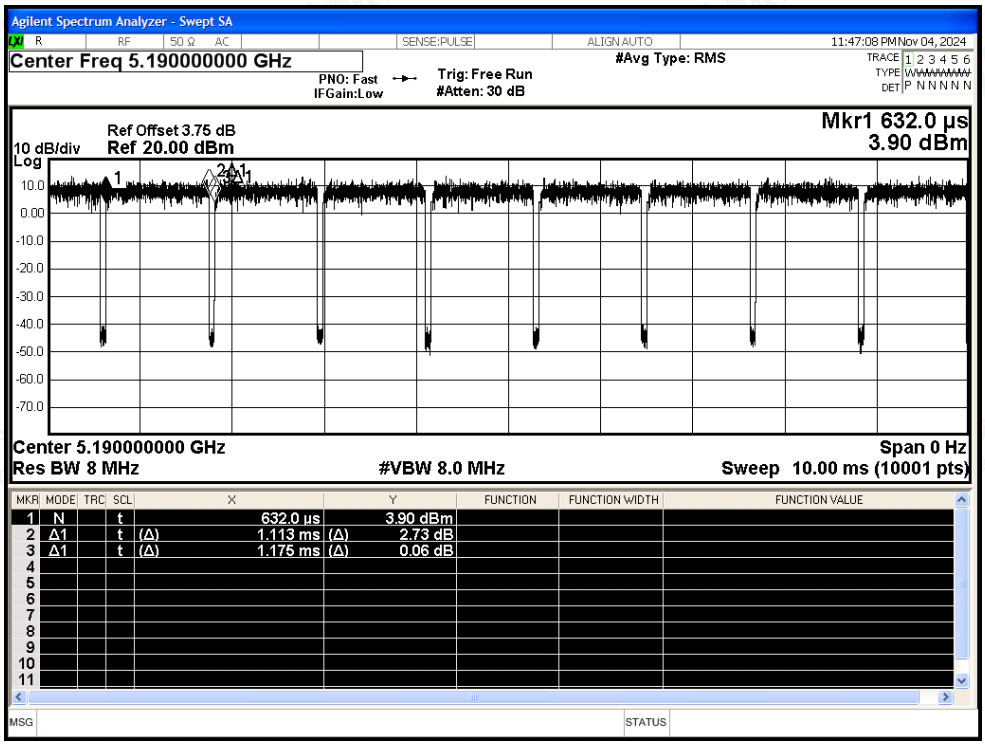

Duty Cycle NVNT ac20 5200MHz Ant0



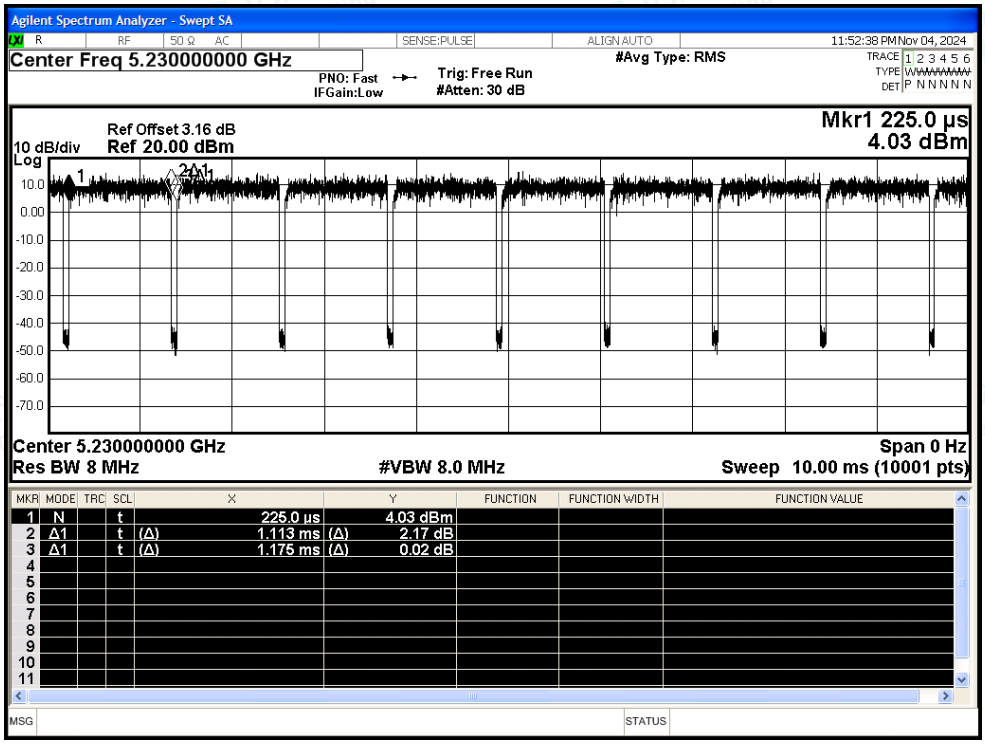
Duty Cycle NVNT ac20 5240MHz Ant0



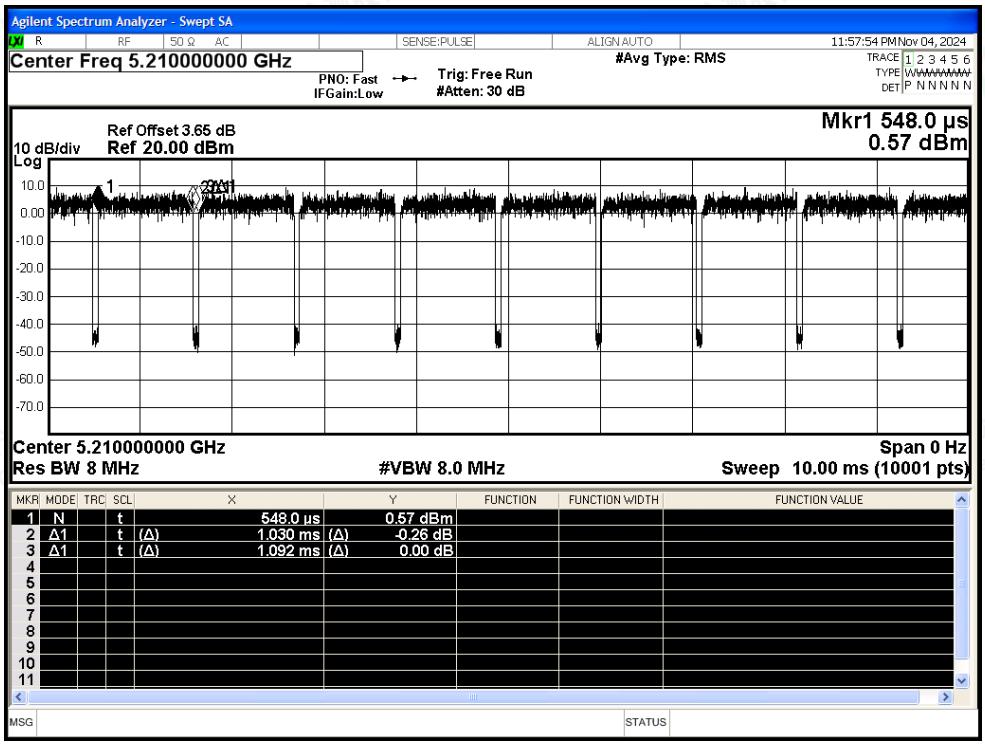

Duty Cycle NVNT ac40 5190MHz Ant0



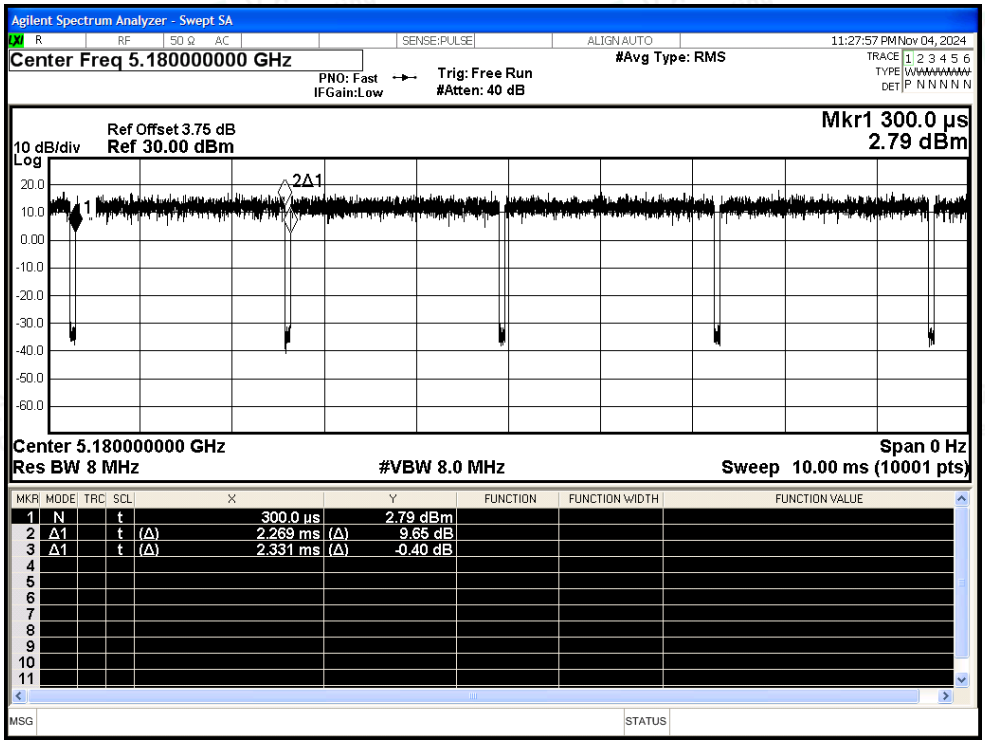
Duty Cycle NVNT ac40 5230MHz Ant0



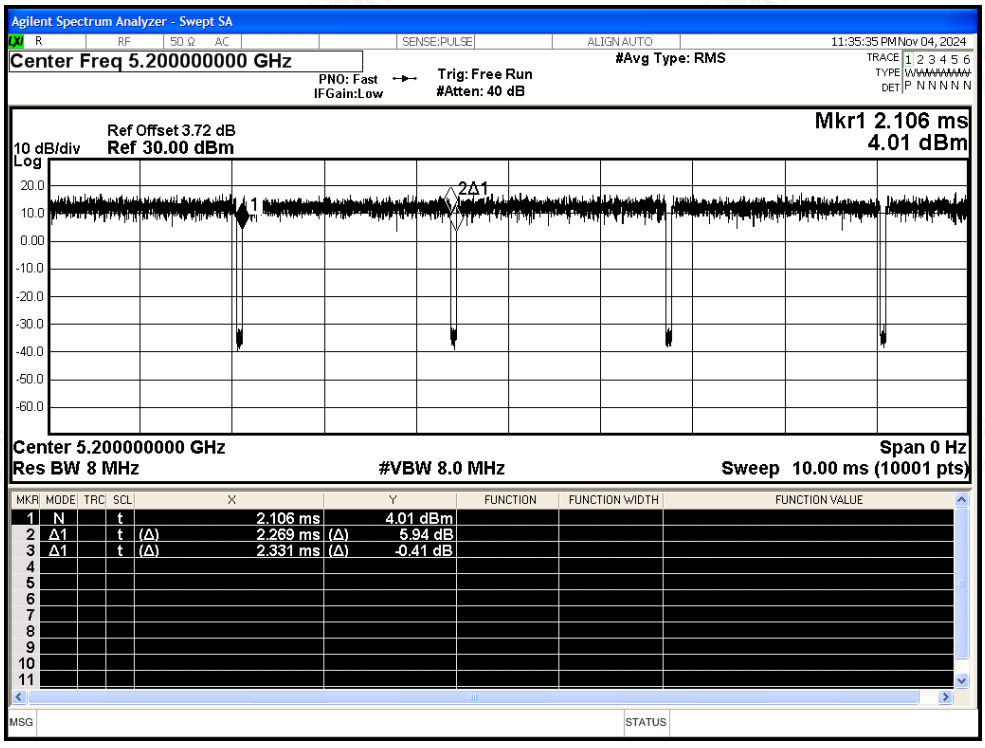

Duty Cycle NVNT ac80 5210MHz Ant0



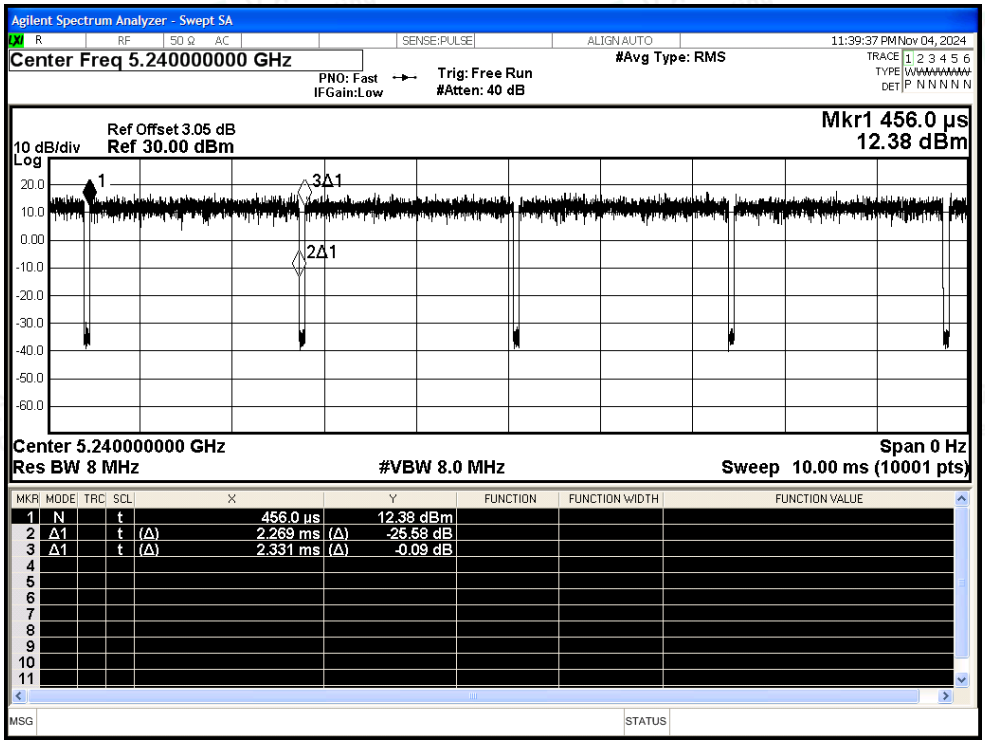
Duty Cycle NVNT ax20 5180MHz Ant0



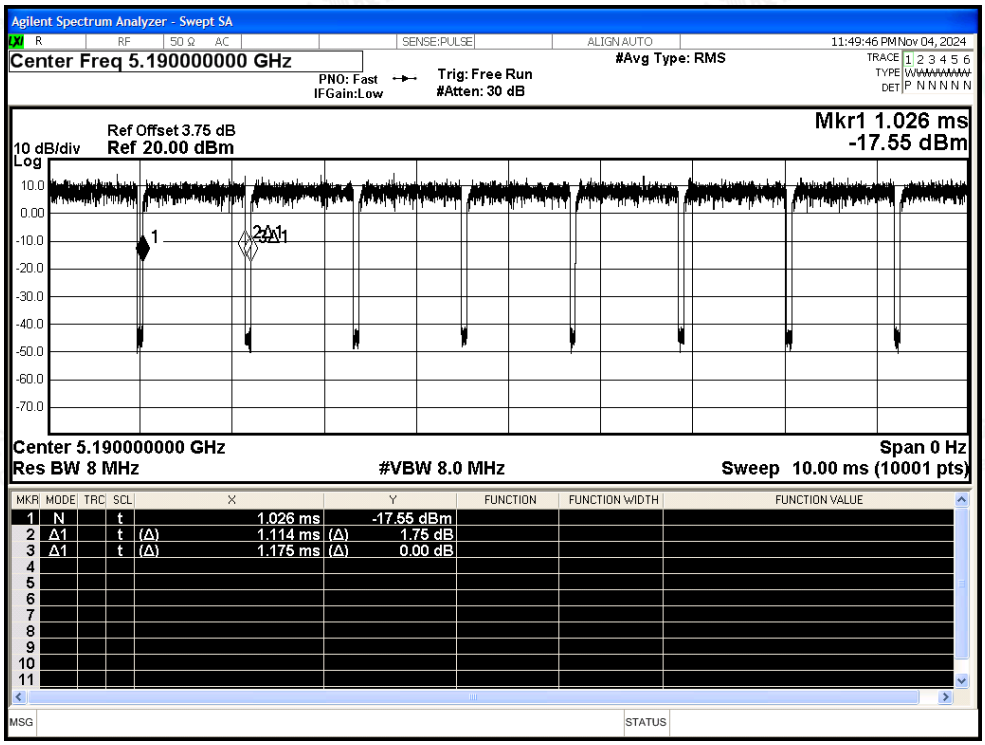

Duty Cycle NVNT ax20 5200MHz Ant0



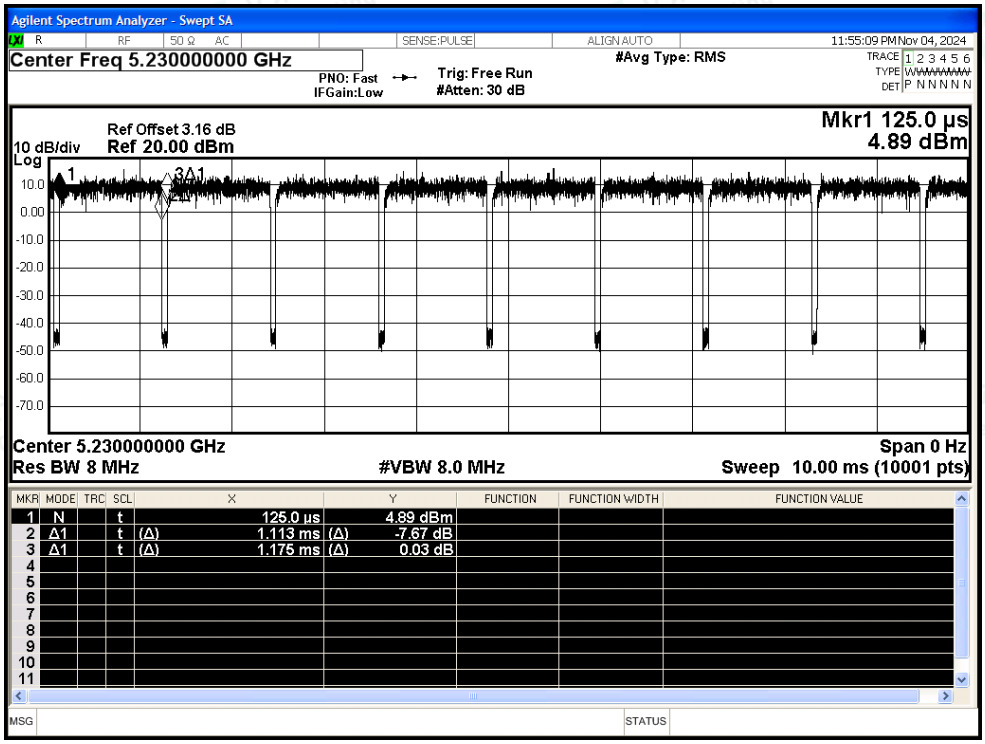
Duty Cycle NVNT ax20 5240MHz Ant0



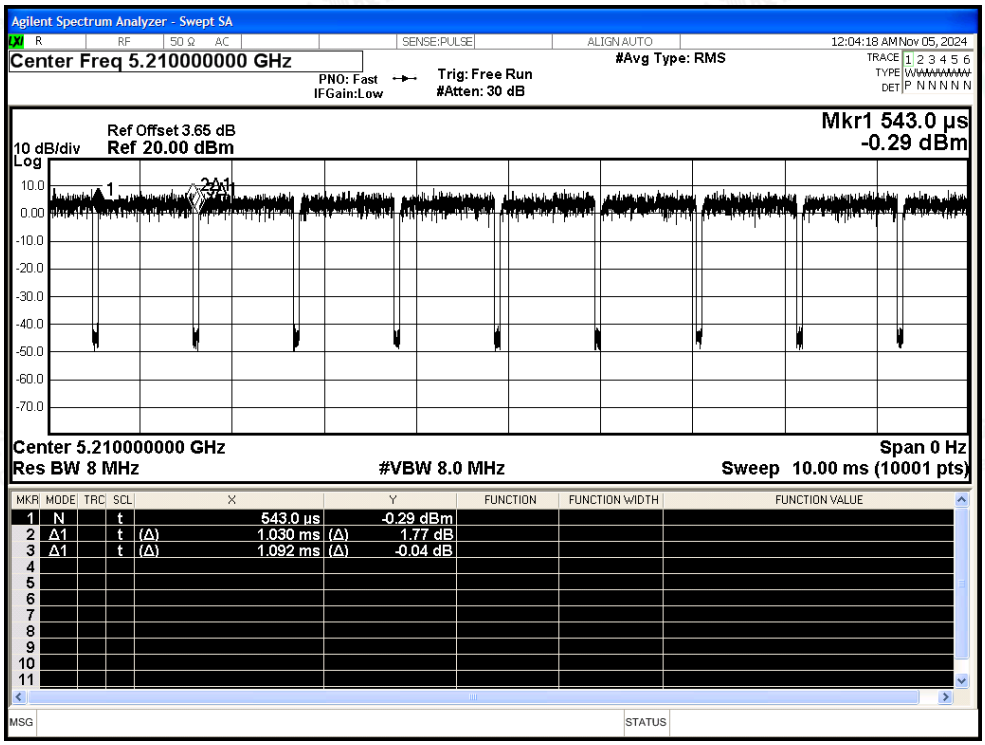

Duty Cycle NVNT ax40 5190MHz Ant0



Duty Cycle NVNT ax40 5230MHz Ant0



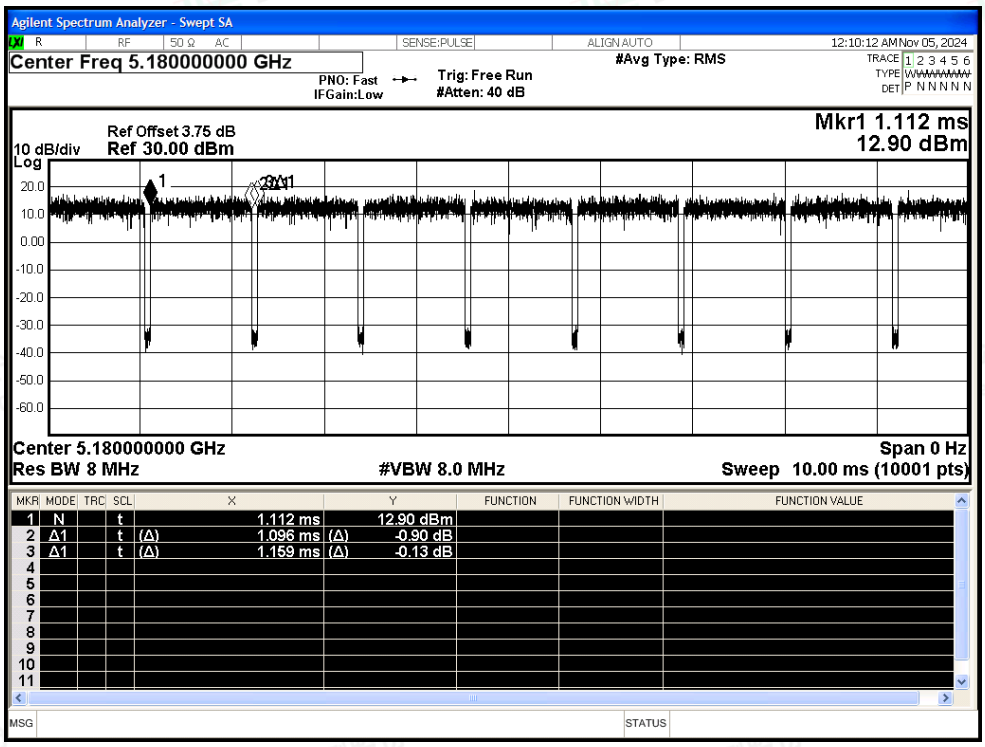

Duty Cycle NVNT ax80 5210MHz Ant0



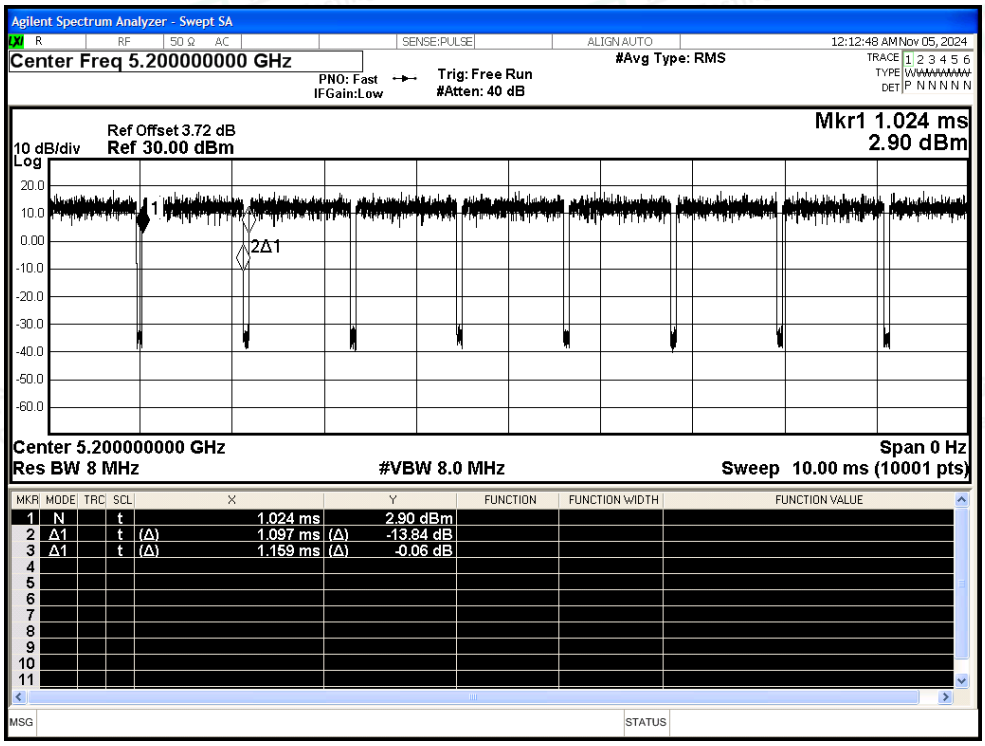
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 94.56 | 0.24 | 0.91 |
| NVNT | a | 5200 | Ant1 | 94.65 | 0.24 | 0.91 |
| NVNT | a | 5240 | Ant1 | 94.65 | 0.24 | 0.91 |
| NVNT | n20 | 5180 | Ant1 | 97.29 | 0.12 | 0.44 |
| NVNT | n20 | 5200 | Ant1 | 97.33 | 0.12 | 0.44 |
| NVNT | n20 | 5240 | Ant1 | 97.33 | 0.12 | 0.44 |
| NVNT | n40 | 5190 | Ant1 | 97.23 | 0.12 | 0.46 |
| NVNT | n40 | 5230 | Ant1 | 97.23 | 0.12 | 0.46 |
| NVNT | ac20 | 5180 | Ant1 | 97.3 | 0.12 | 0.44 |
| NVNT | ac20 | 5200 | Ant1 | 97.3 | 0.12 | 0.44 |
| NVNT | ac20 | 5240 | Ant1 | 97.34 | 0.12 | 0.44 |
| NVNT | ac40 | 5190 | Ant1 | 97.24 | 0.12 | 0.46 |
| NVNT | ac40 | 5230 | Ant1 | 97.19 | 0.12 | 0.46 |
| NVNT | ac80 | 5210 | Ant1 | 94.41 | 0.25 | 0.97 |
| NVNT | ax20 | 5180 | Ant1 | 97.3 | 0.12 | 0.44 |
| NVNT | ax20 | 5200 | Ant1 | 97.34 | 0.12 | 0.44 |
| NVNT | ax20 | 5240 | Ant1 | 97.34 | 0.12 | 0.44 |
| NVNT | ax40 | 5190 | Ant1 | 97.19 | 0.12 | 0.46 |
| NVNT | ax40 | 5230 | Ant1 | 97.19 | 0.12 | 0.46 |
| NVNT | ax80 | 5210 | Ant1 | 94.41 | 0.25 | 0.97 |

Test Graphs

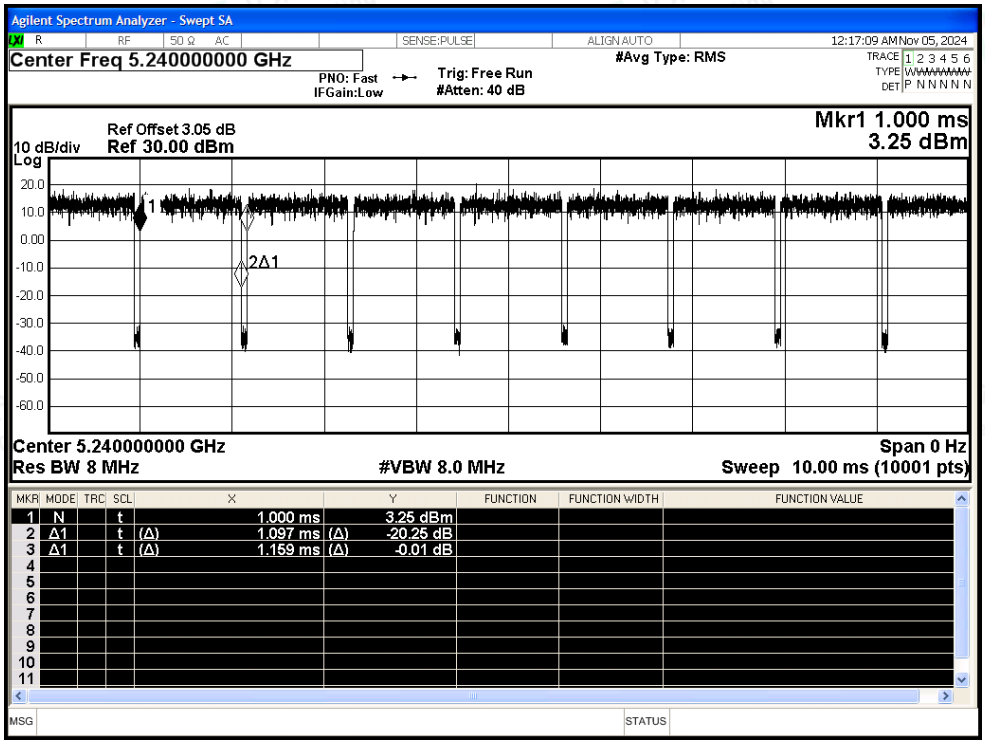
Duty Cycle NVNT a 5180MHz Ant1



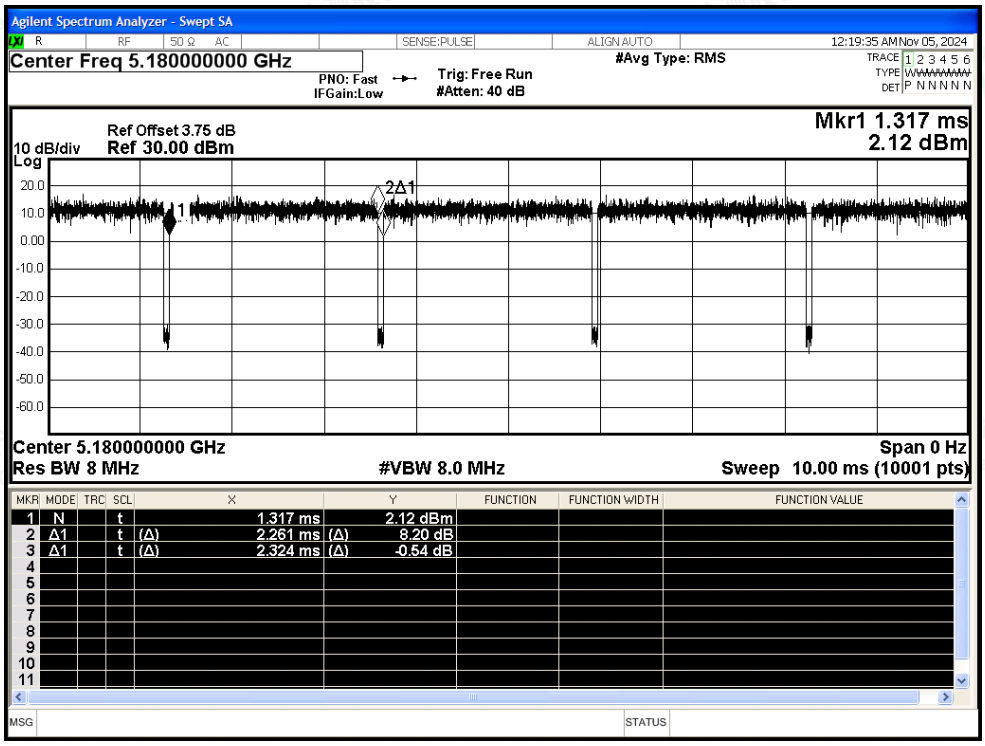

Duty Cycle NVNT a 5200MHz Ant1



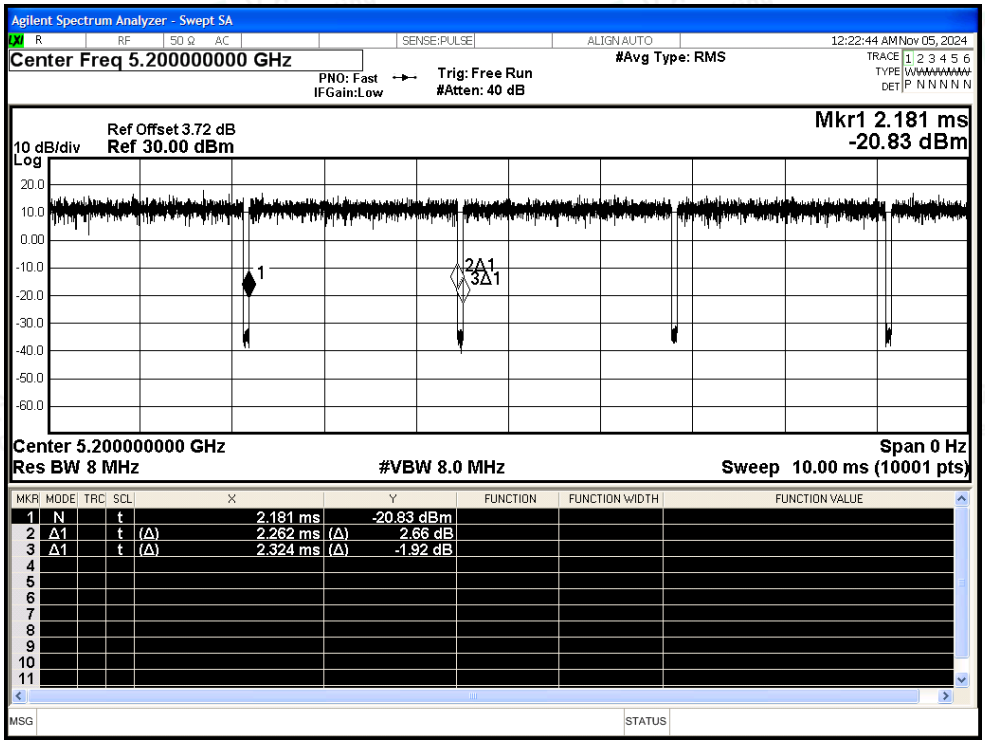
Duty Cycle NVNT a 5240MHz Ant1



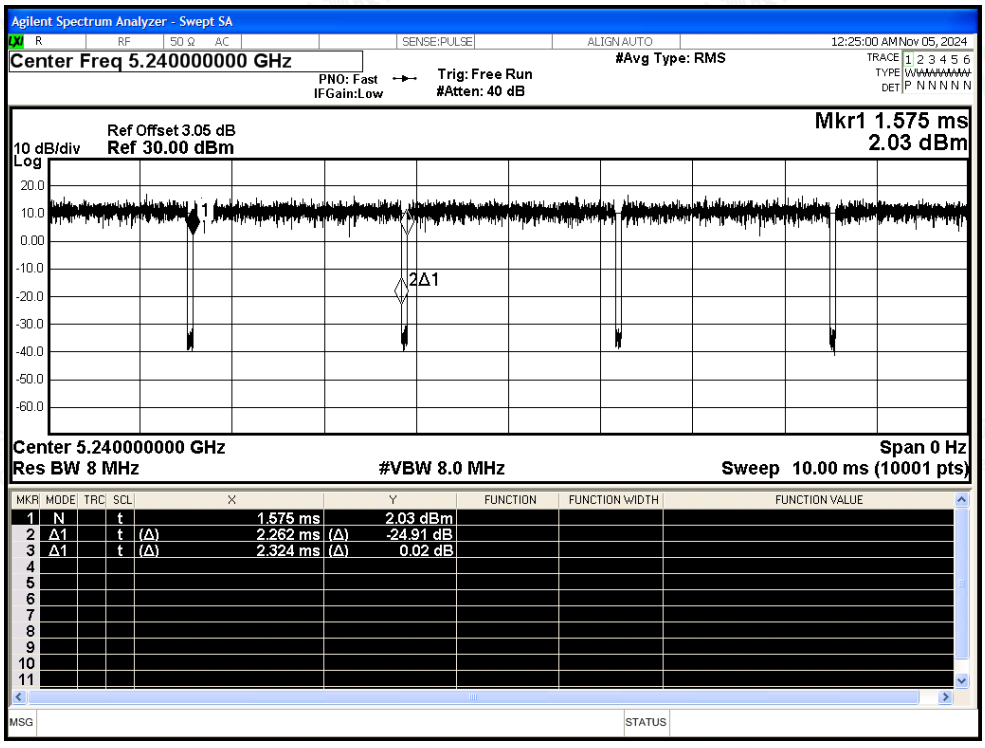

Duty Cycle NVNT n20 5180MHz Ant1



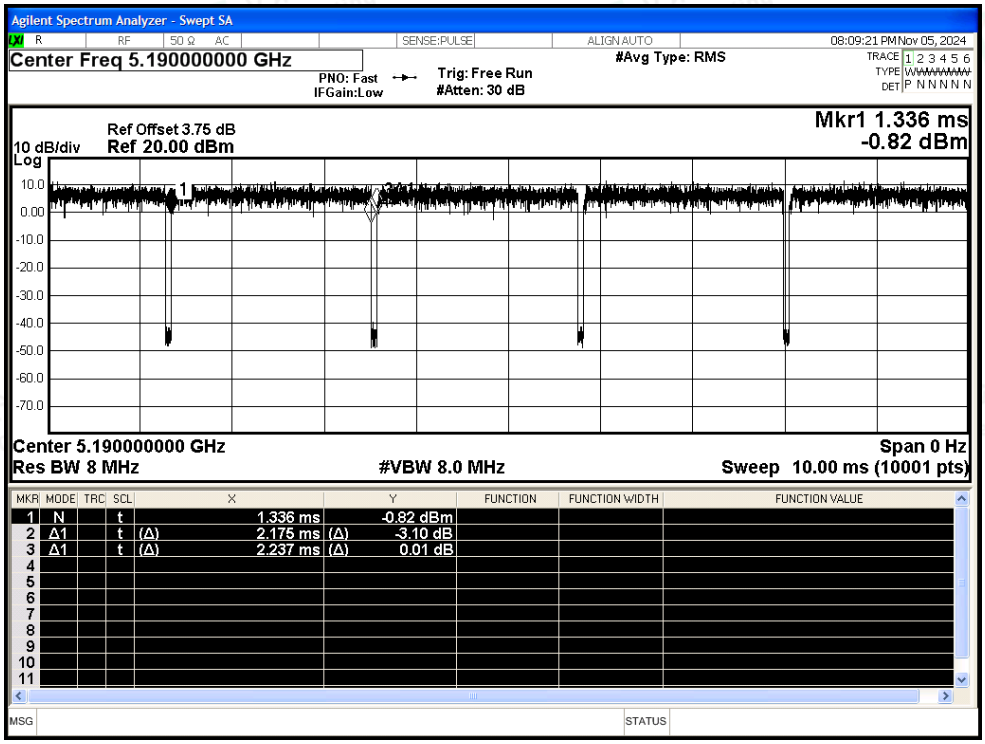
Duty Cycle NVNT n20 5200MHz Ant1



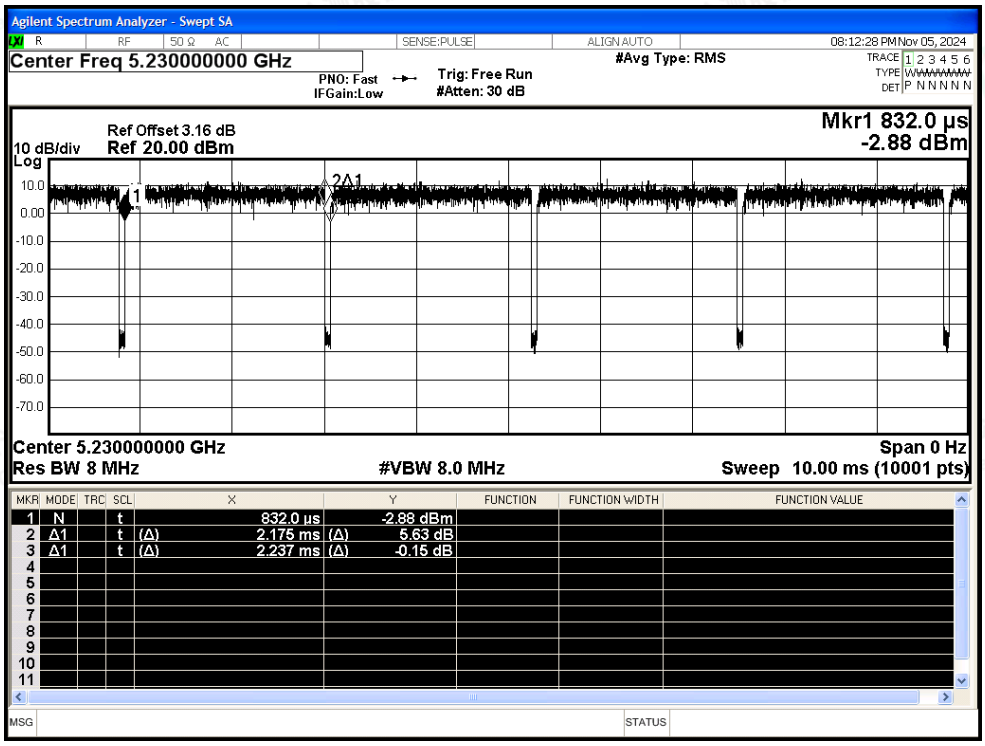

Duty Cycle NVNT n20 5240MHz Ant1



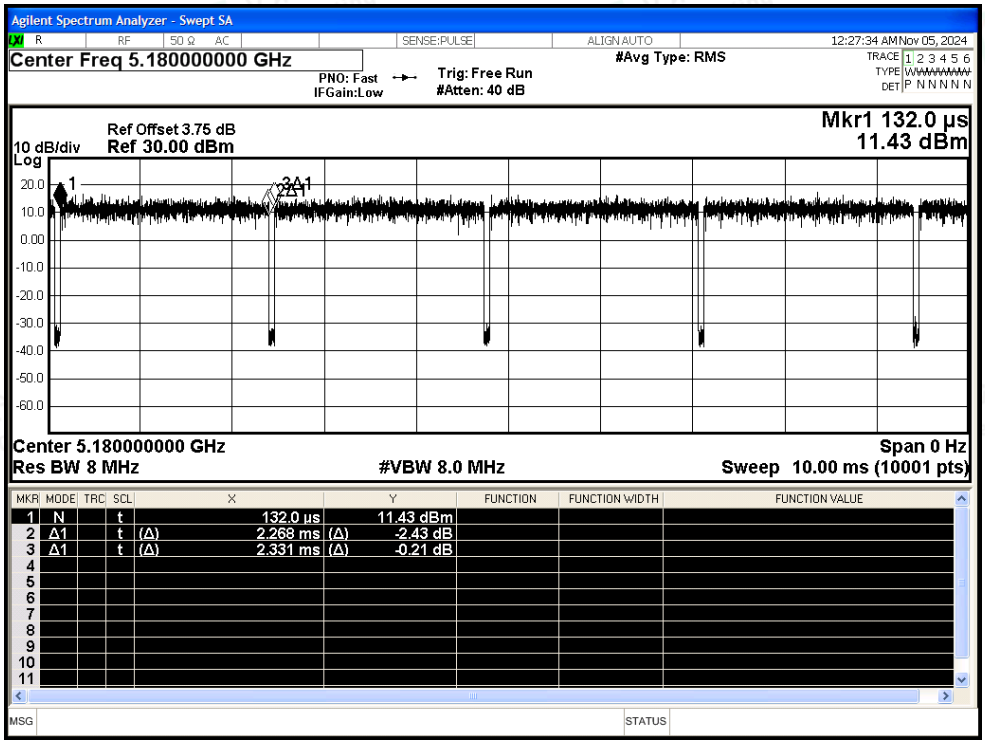
Duty Cycle NVNT n40 5190MHz Ant1



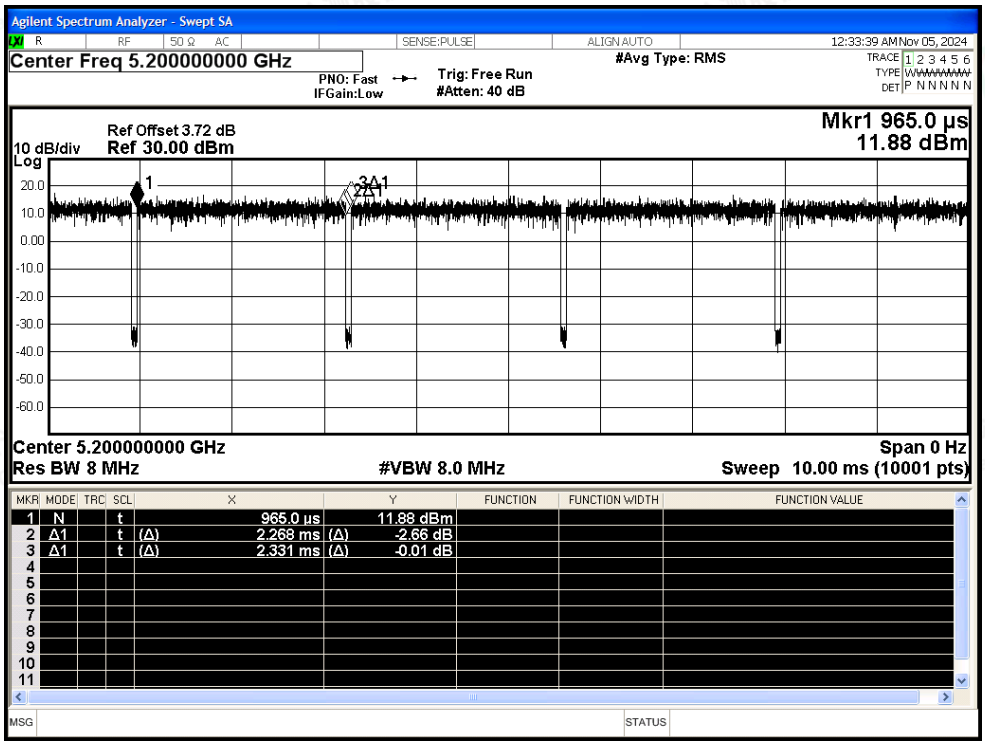

Duty Cycle NVNT n40 5230MHz Ant1



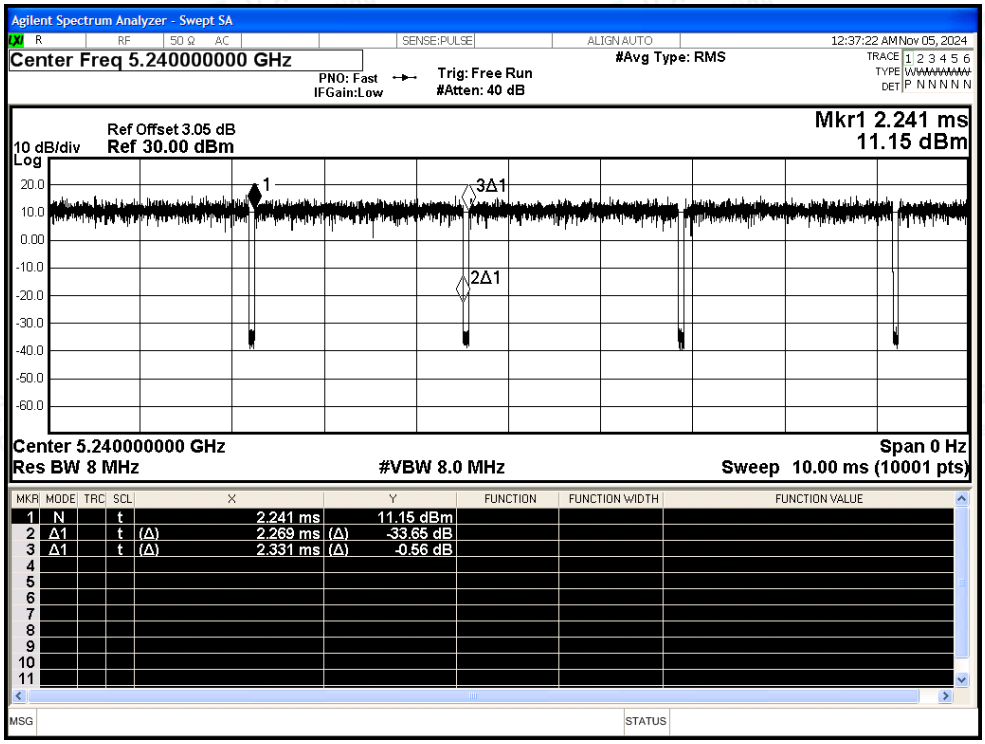
Duty Cycle NVNT ac20 5180MHz Ant1



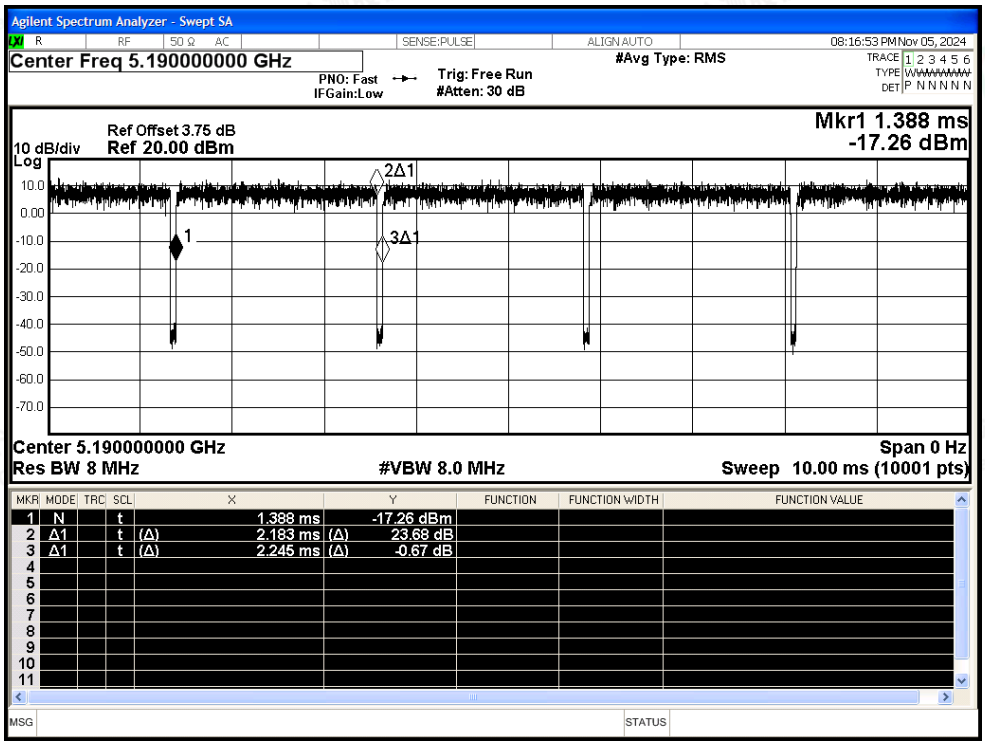

Duty Cycle NVNT ac20 5200MHz Ant1



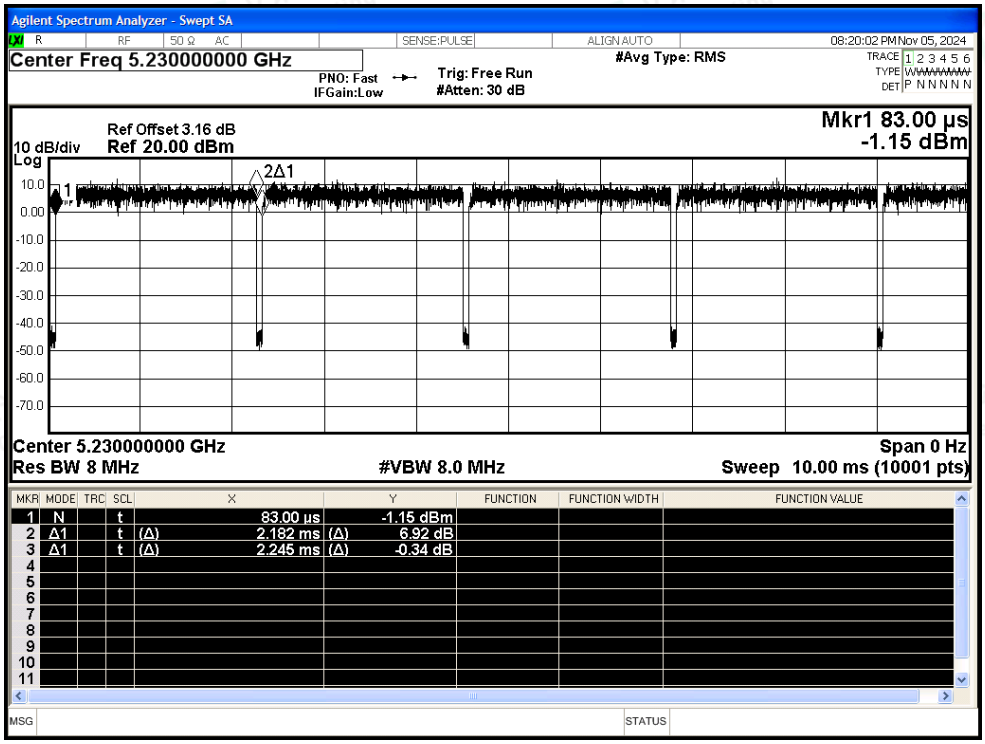
Duty Cycle NVNT ac20 5240MHz Ant1



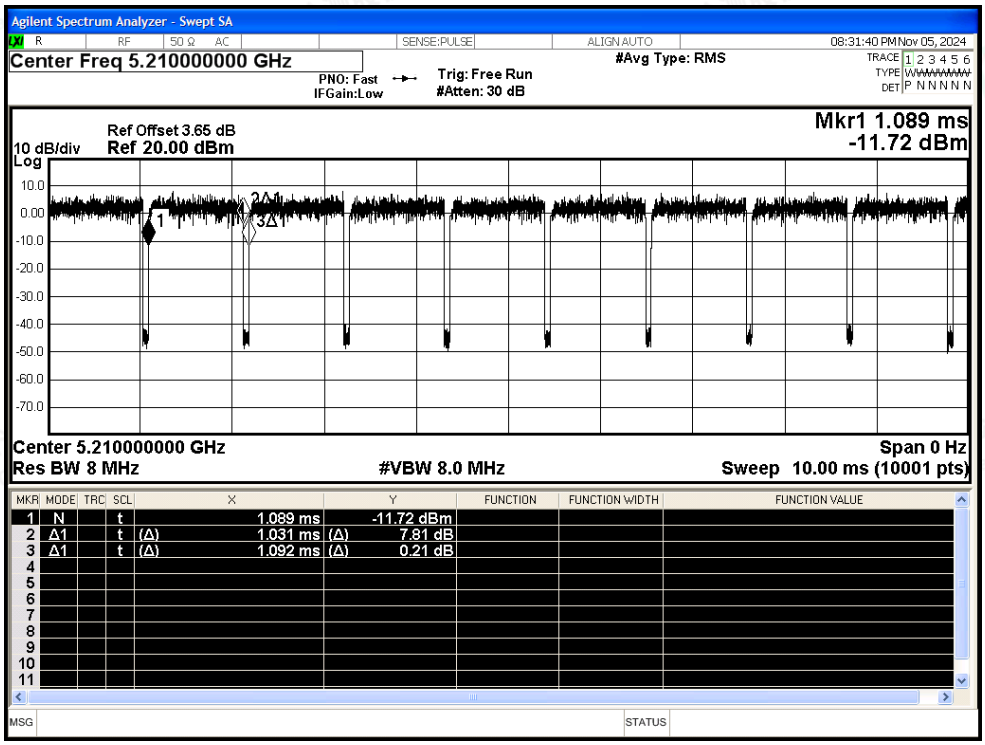

Duty Cycle NVNT ac40 5190MHz Ant1



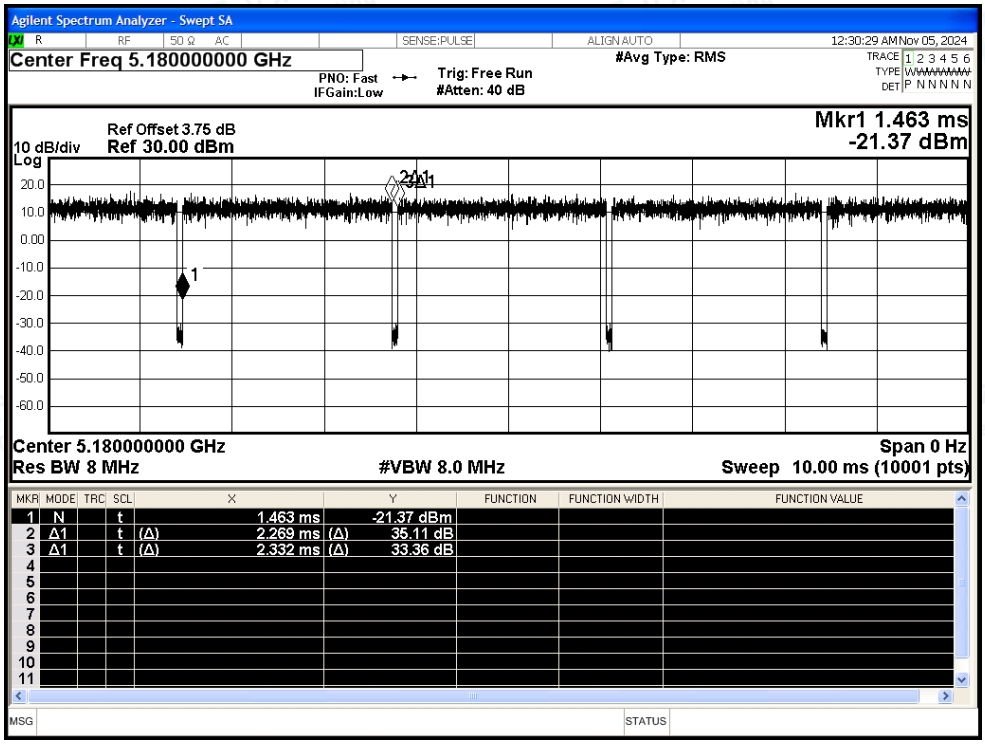
Duty Cycle NVNT ac40 5230MHz Ant1



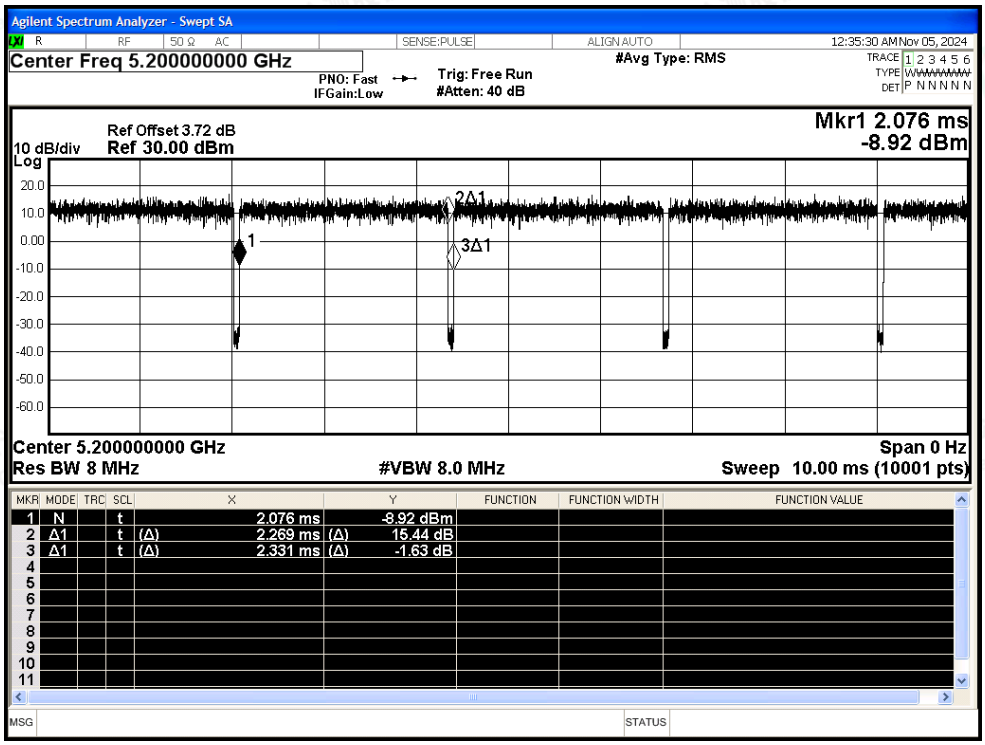

Duty Cycle NVNT ac80 5210MHz Ant1



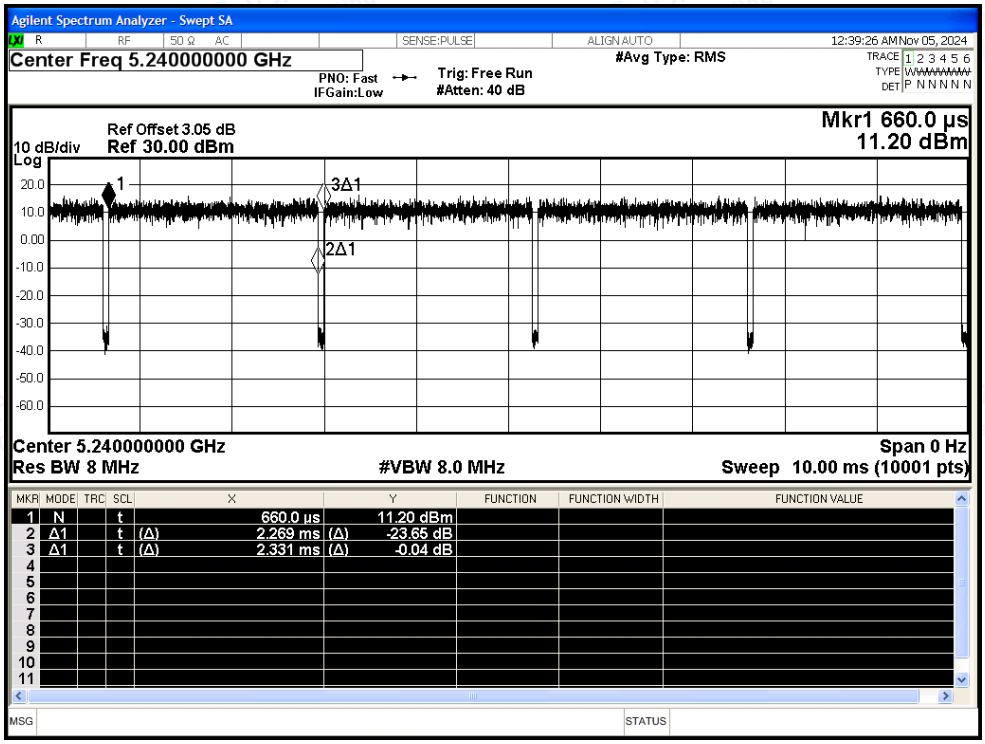
Duty Cycle NVNT ax20 5180MHz Ant1



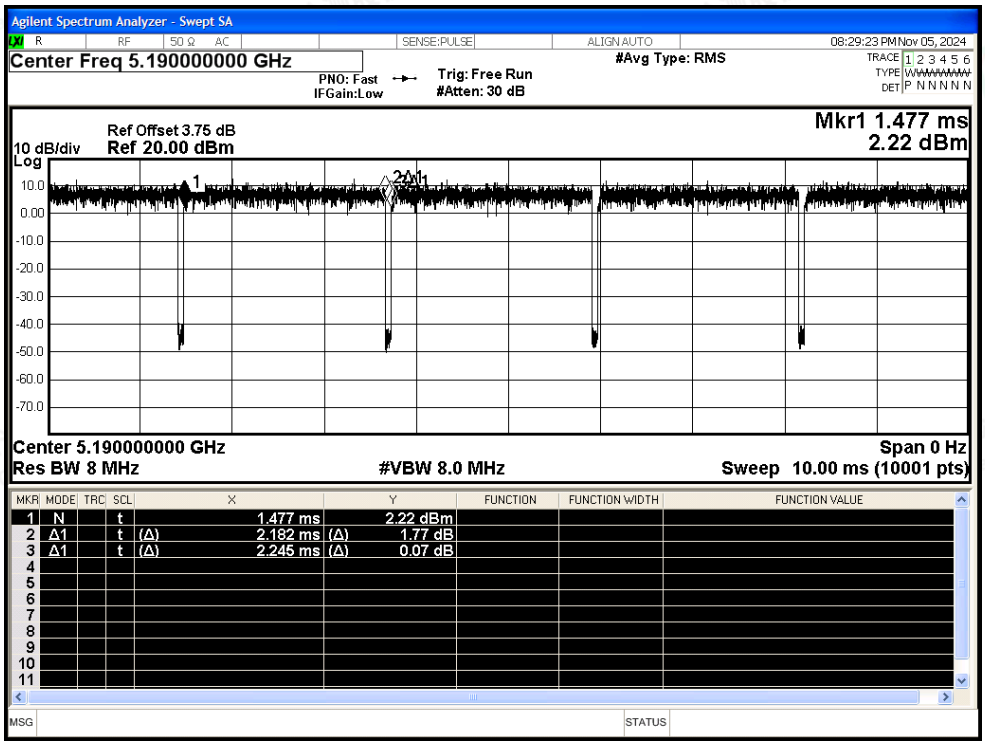

Duty Cycle NVNT ax20 5200MHz Ant1



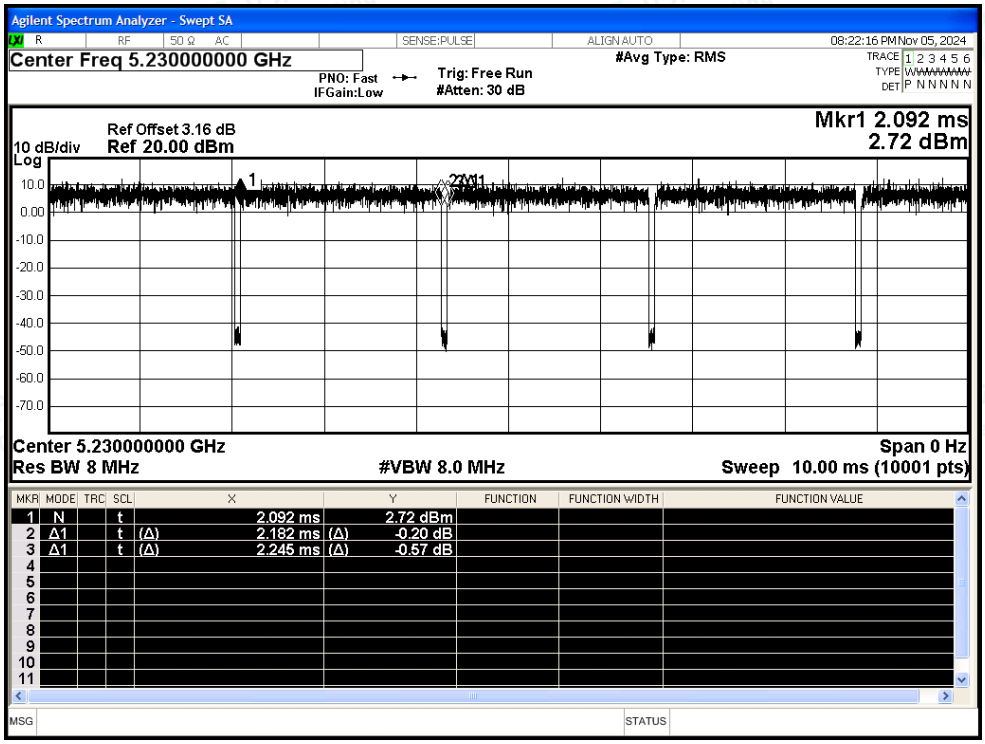
Duty Cycle NVNT ax20 5240MHz Ant1

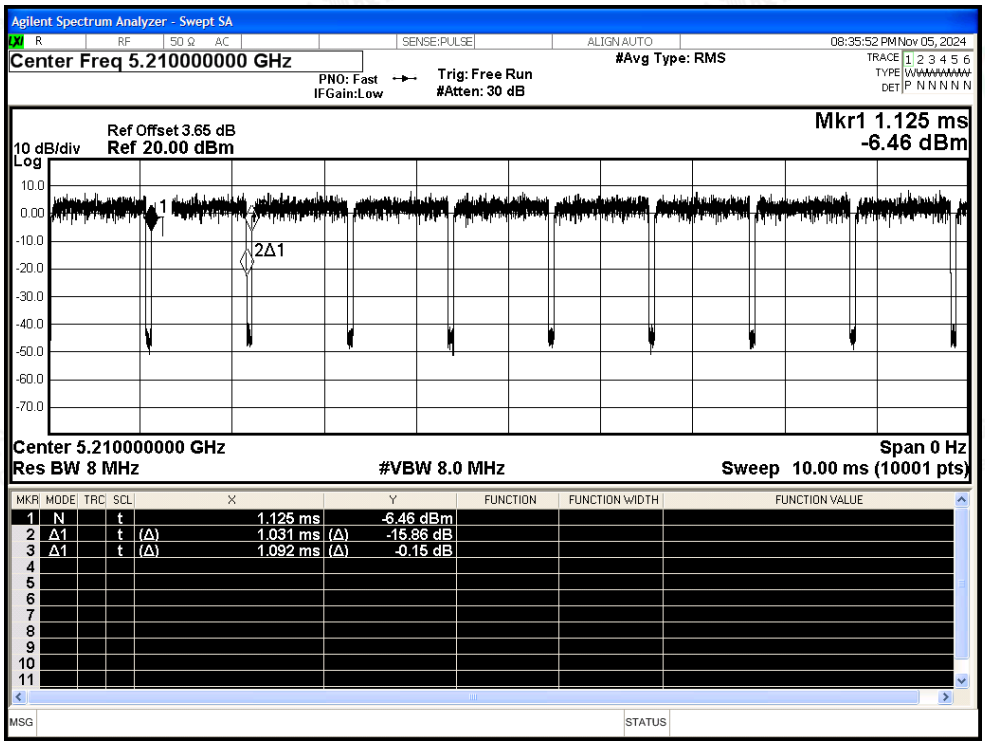



Duty Cycle NVNT ax40 5190MHz Ant1



Duty Cycle NVNT ax40 5230MHz Ant1




Duty Cycle NVNT ax80 5210MHz Ant1