



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Mini

Test Model: Lemon TV Mini

Environmental Conditions

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





## D.1 -26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 20.952                 | ---                          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 22.52                  | ---                          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 20.258                 | ---                          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 26.15                  | ---                          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 24.552                 | ---                          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 25.64                  | ---                          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 39.347                 | ---                          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 39.234                 | ---                          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 26.551                 | ---                          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 26.327                 | ---                          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 24.577                 | ---                          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 39.726                 | ---                          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 43.751                 | ---                          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 78.187                 | ---                          | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 28.61                  | ---                          | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 27.509                 | ---                          | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 27.134                 | ---                          | Pass    |
| NVNT      | ax40 | 5190            | Ant1    | 42.708                 | ---                          | Pass    |
| NVNT      | ax40 | 5230            | Ant1    | 44.252                 | ---                          | Pass    |
| NVNT      | ax80 | 5210            | Ant1    | 78.269                 | ---                          | Pass    |



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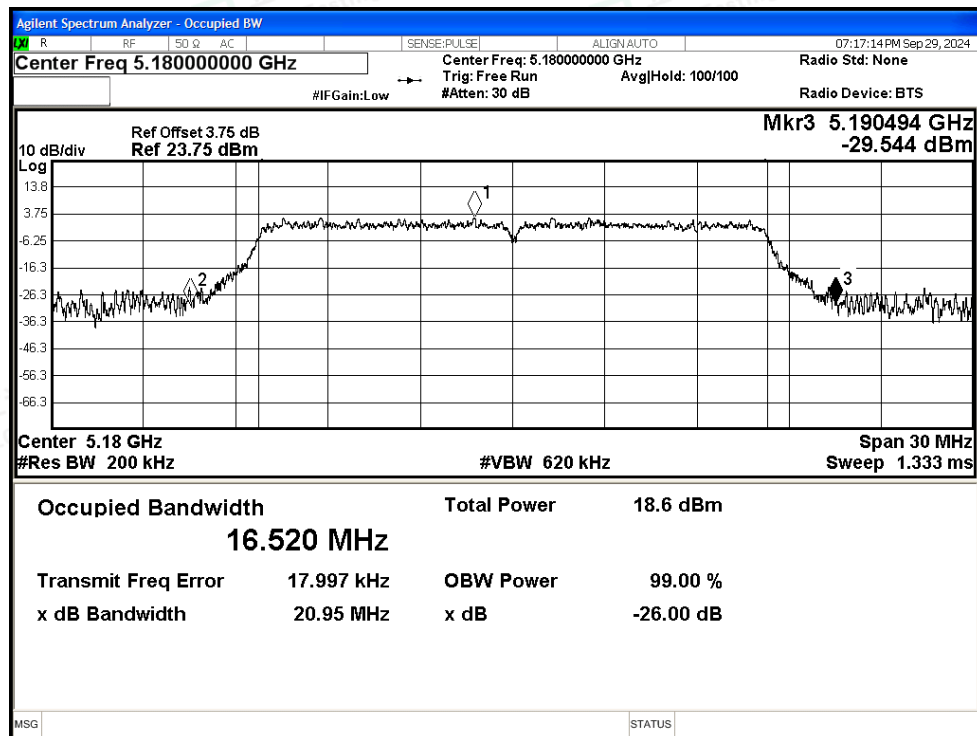
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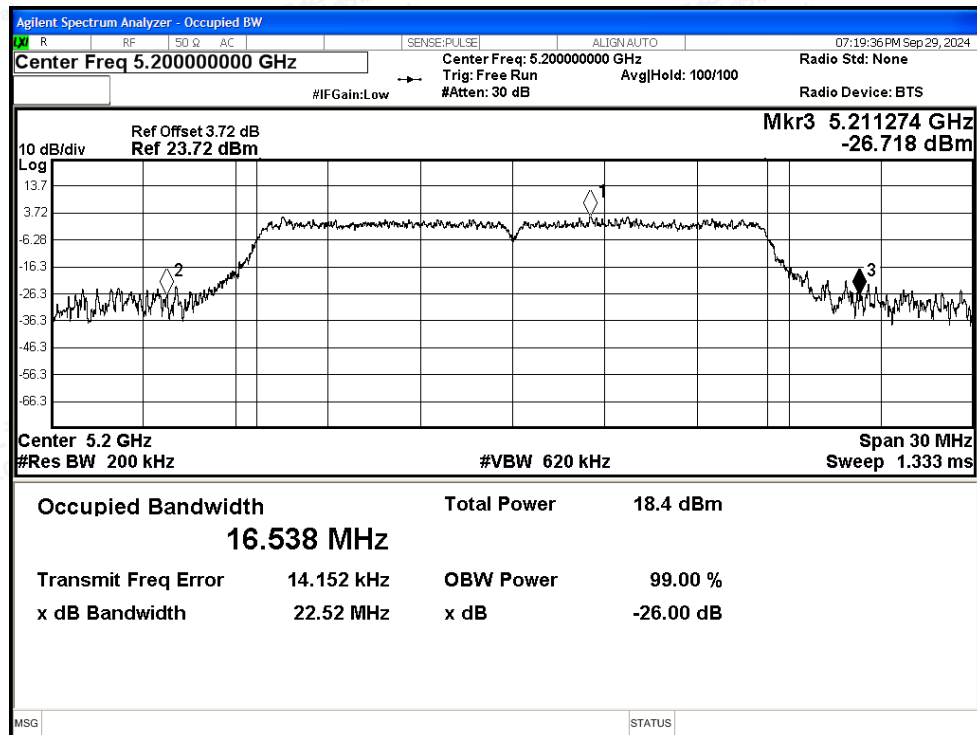


## Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

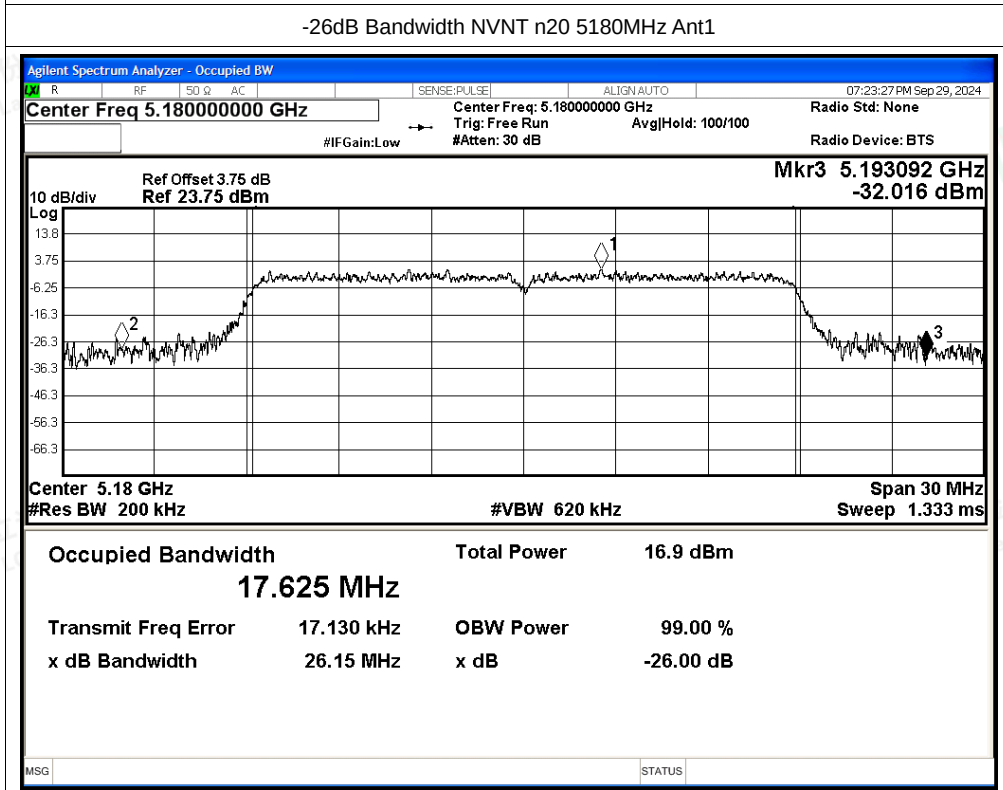
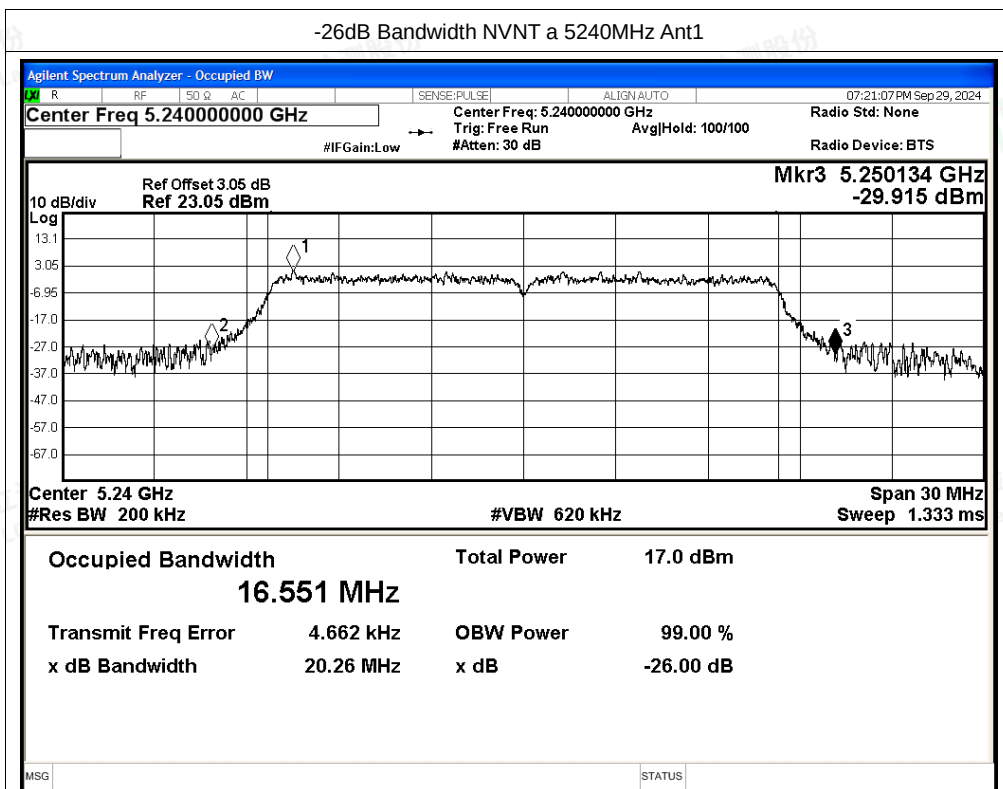


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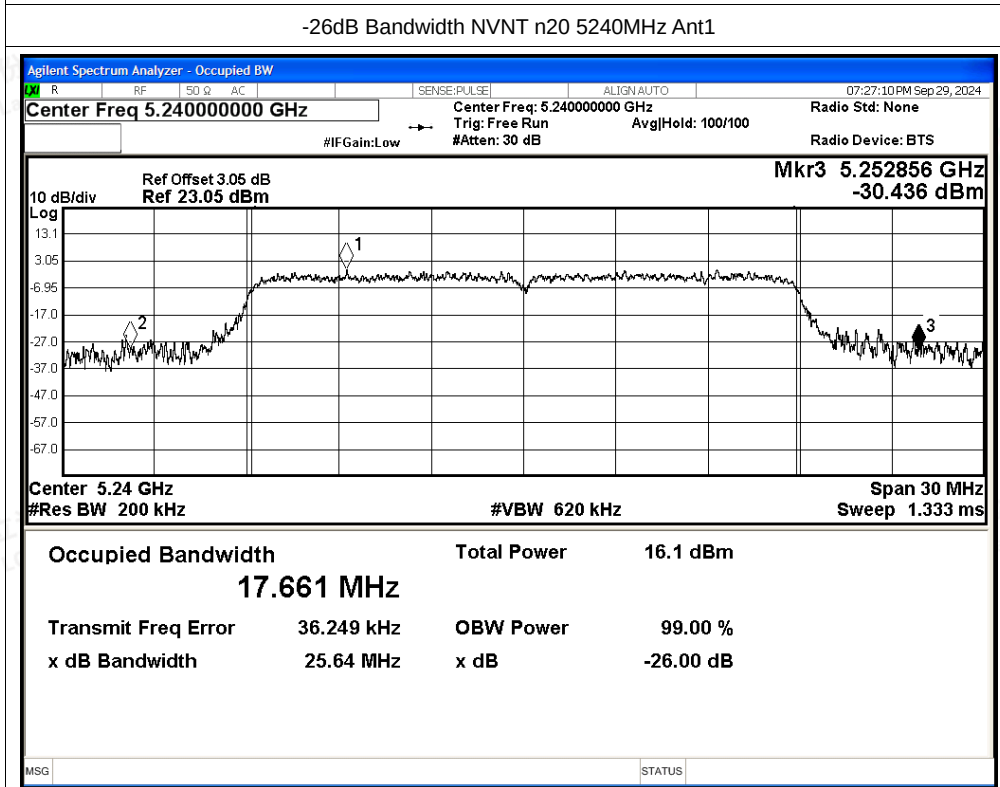
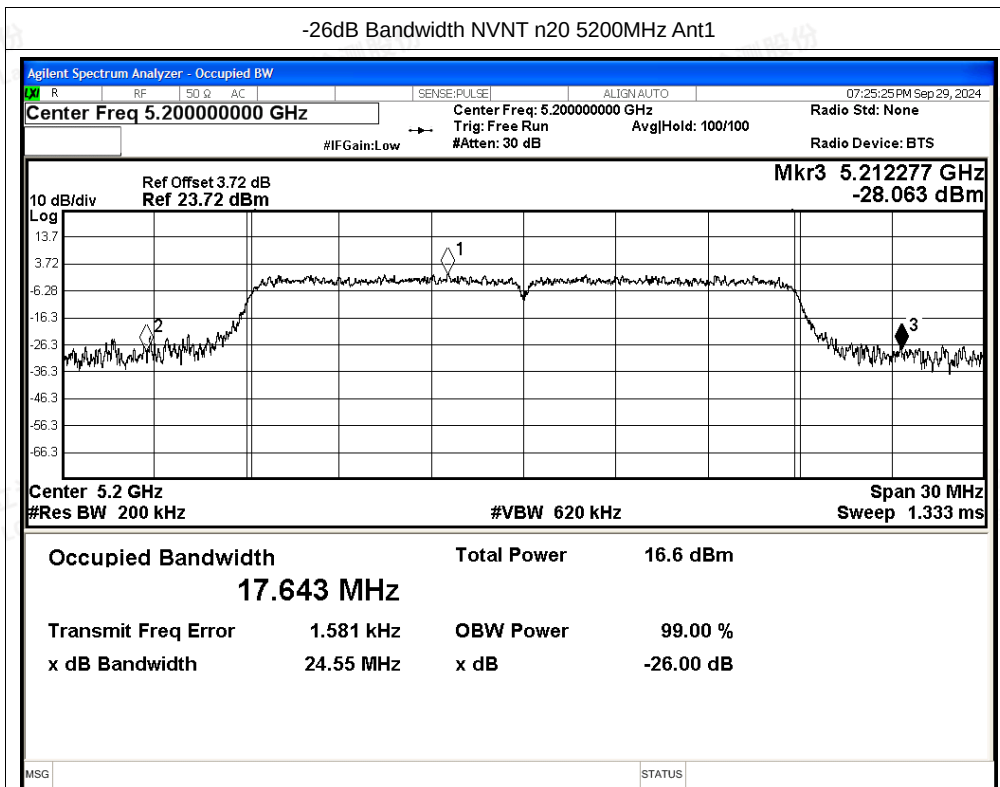


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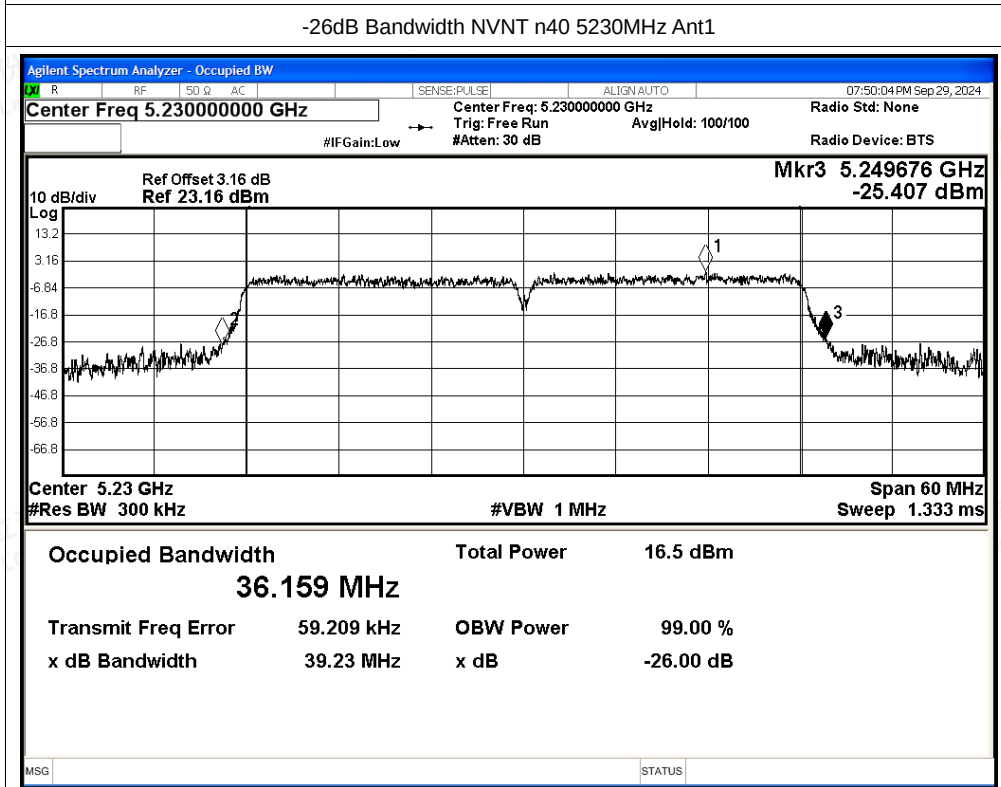
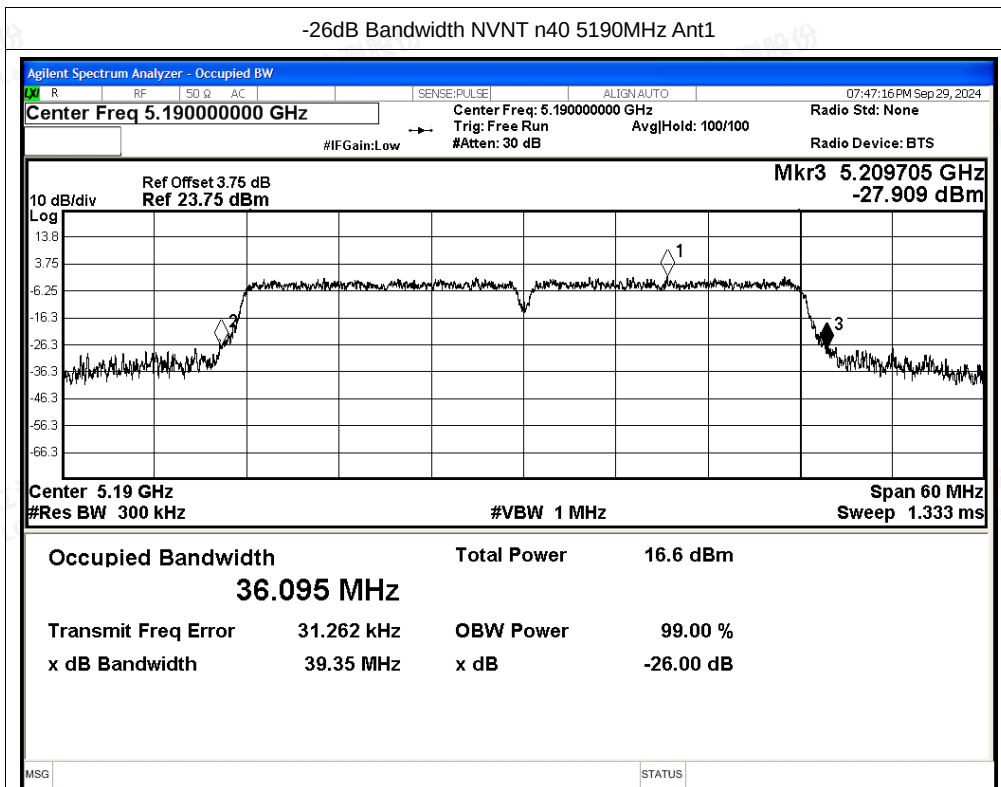


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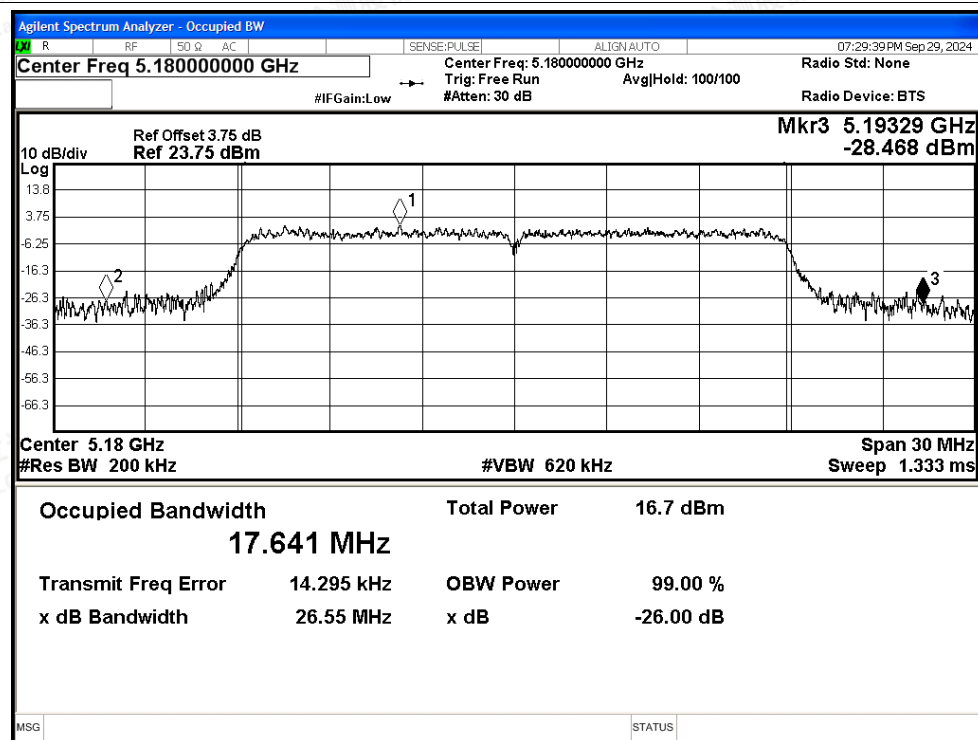
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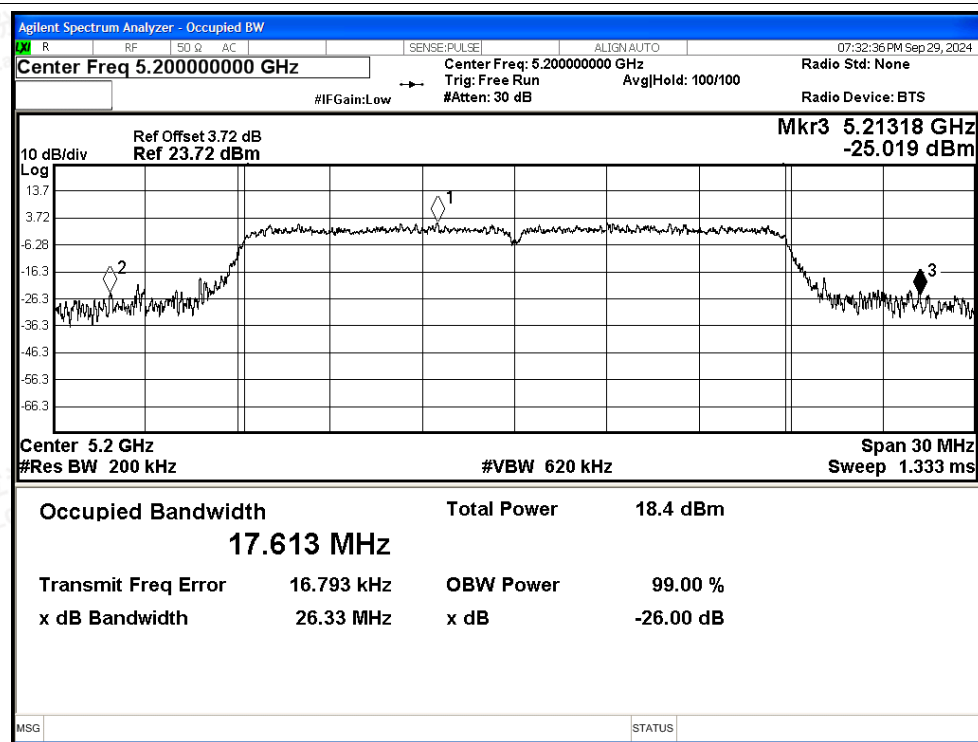
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## -26dB Bandwidth NVNT ac20 5180MHz Ant1



## -26dB Bandwidth NVNT ac20 5200MHz Ant1

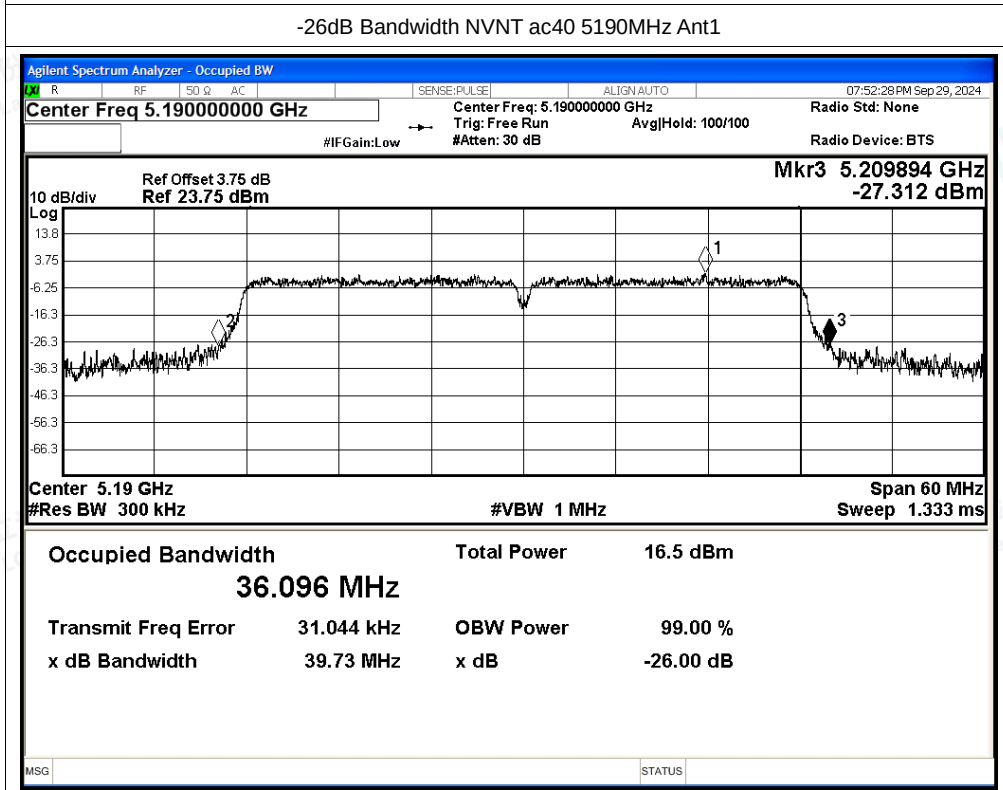
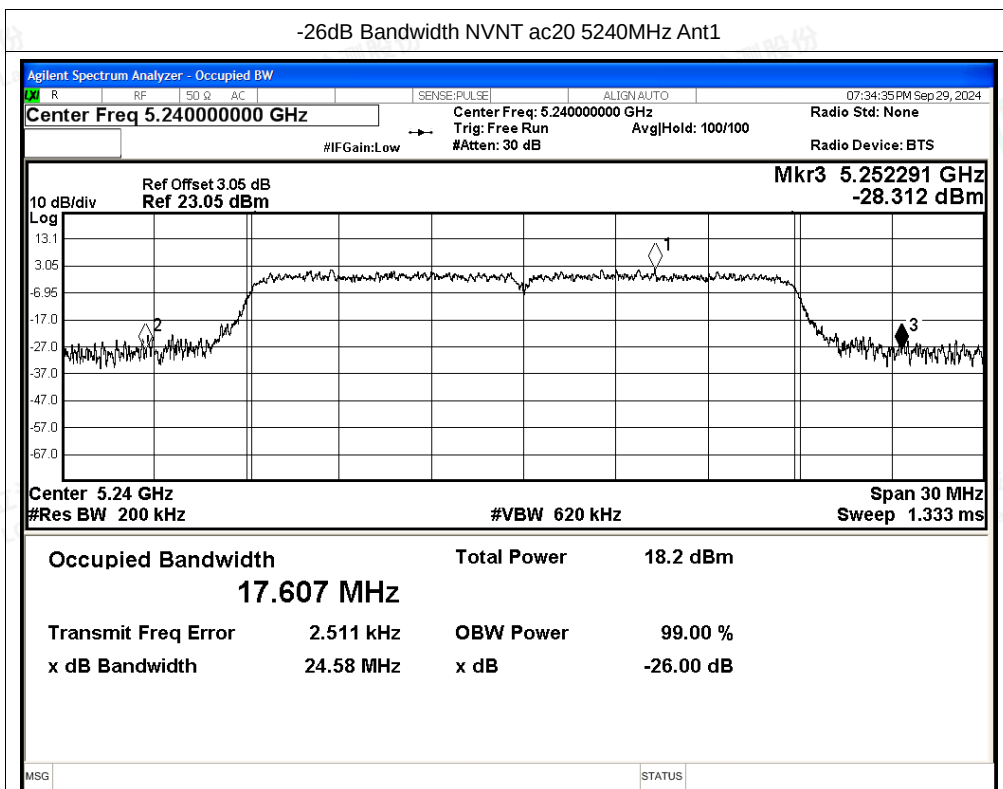


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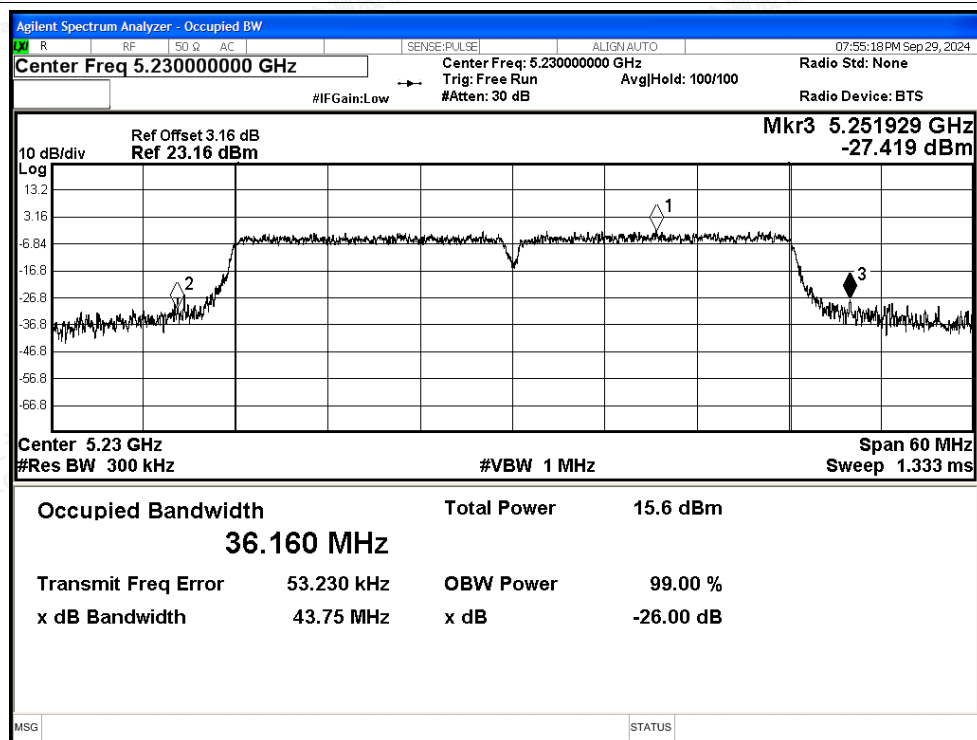
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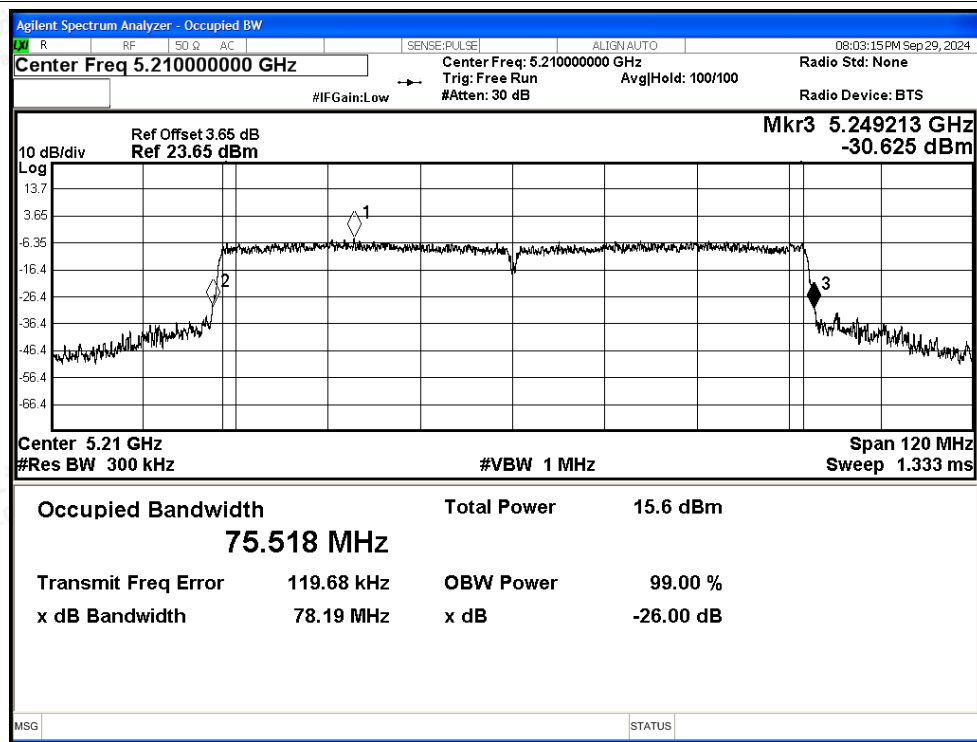
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## -26dB Bandwidth NVNT ac40 5230MHz Ant1



## -26dB Bandwidth NVNT ac80 5210MHz Ant1



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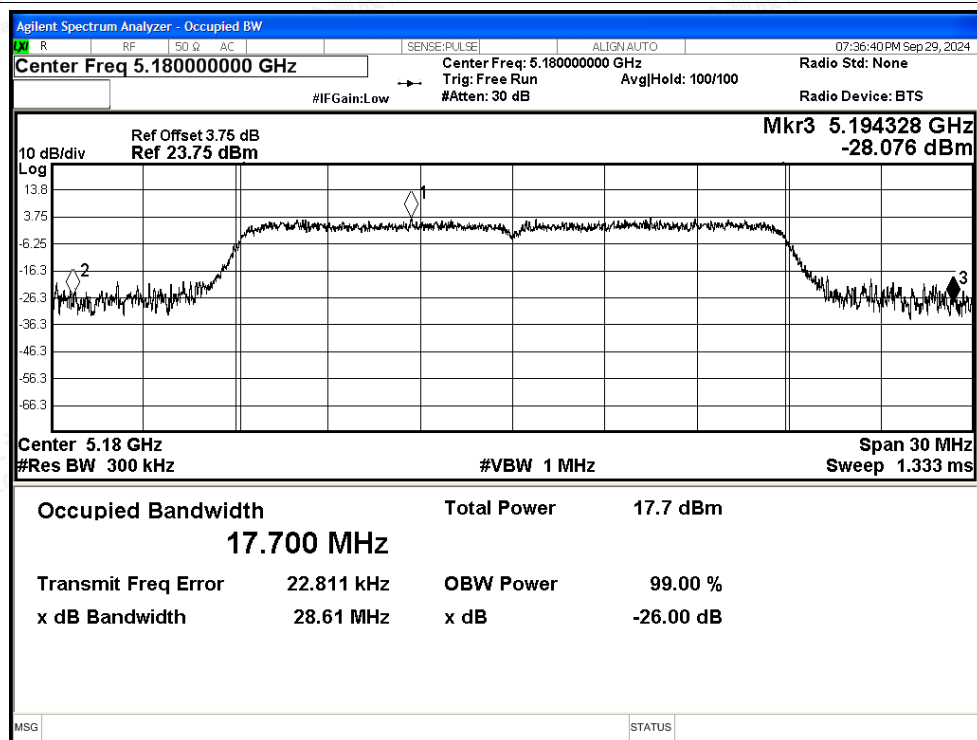
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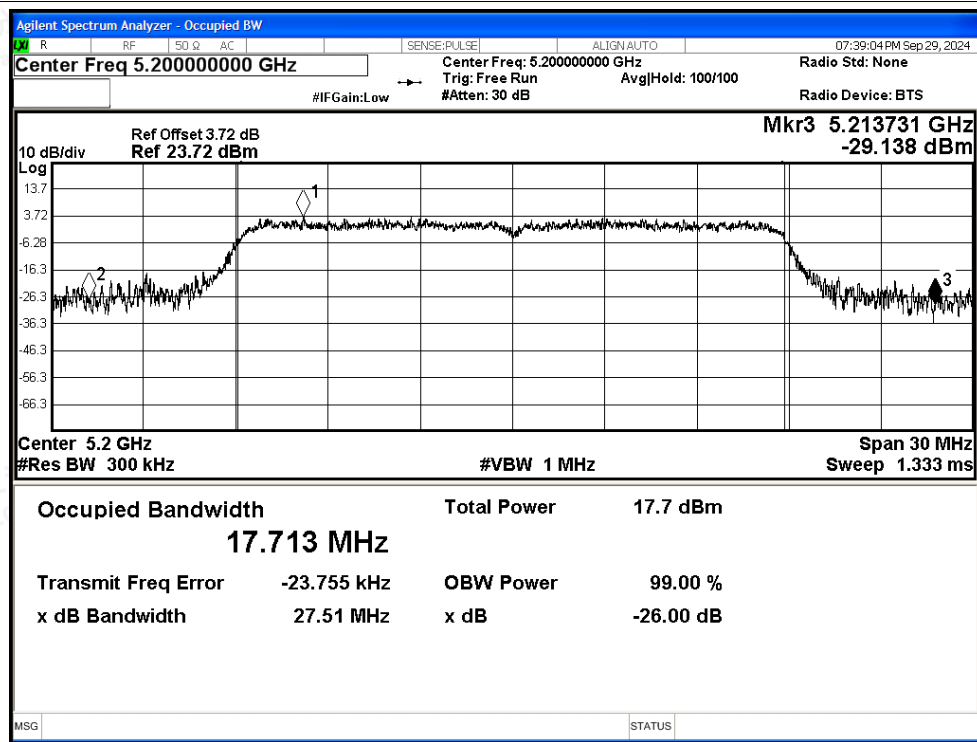
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## -26dB Bandwidth NVNT ax20 5180MHz Ant1



## -26dB Bandwidth NVNT ax20 5200MHz Ant1



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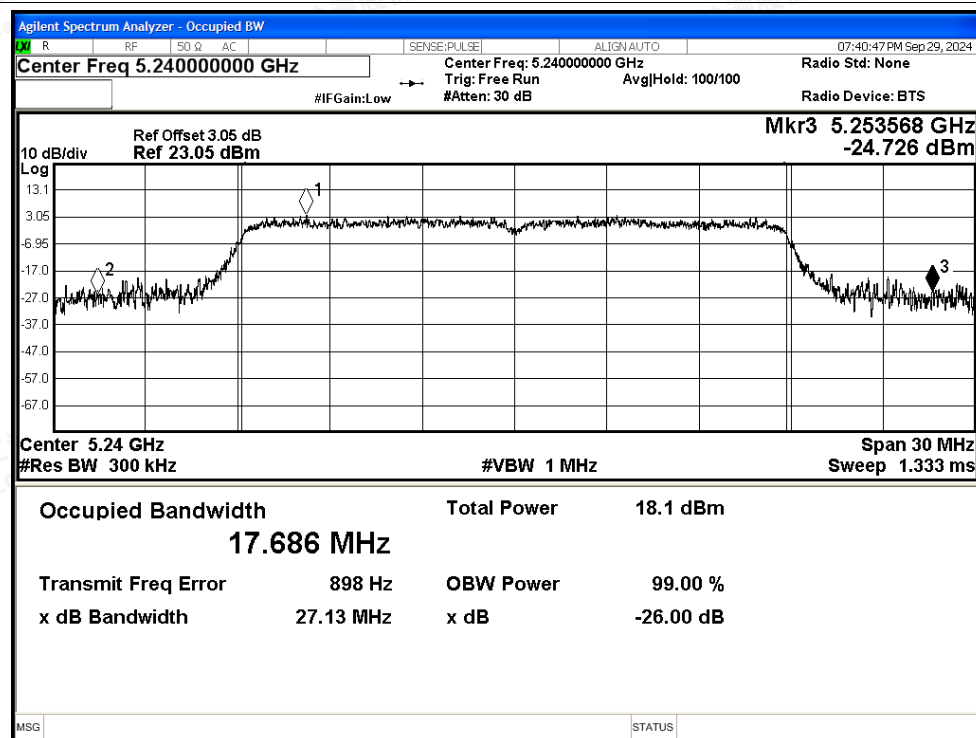
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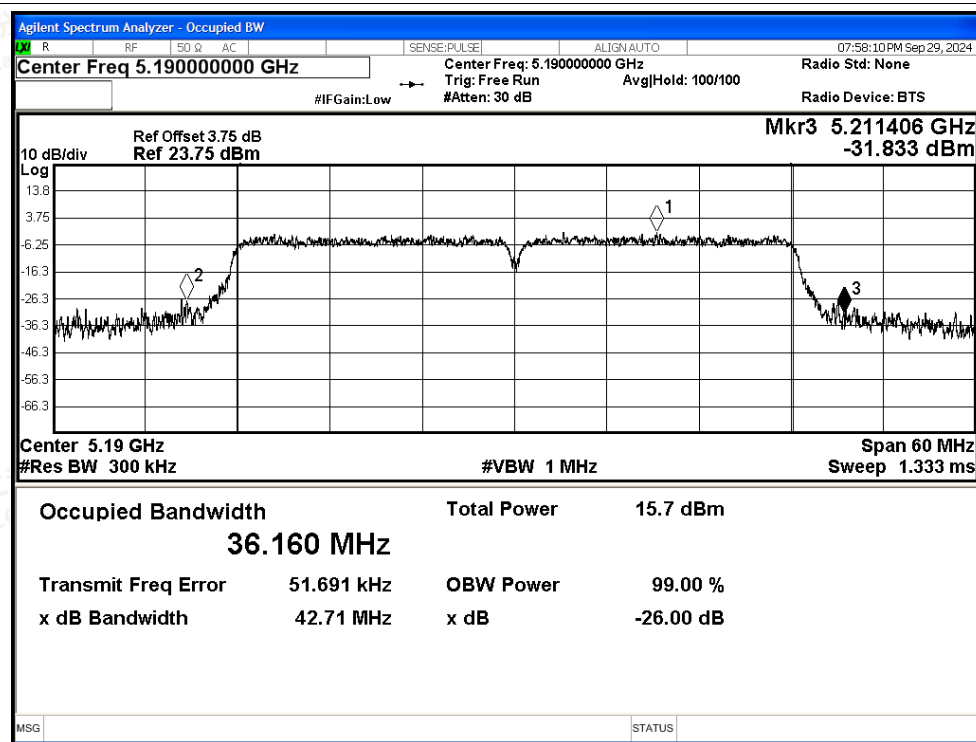
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## -26dB Bandwidth NVNT ax20 5240MHz Ant1



## -26dB Bandwidth NVNT ax40 5190MHz Ant1



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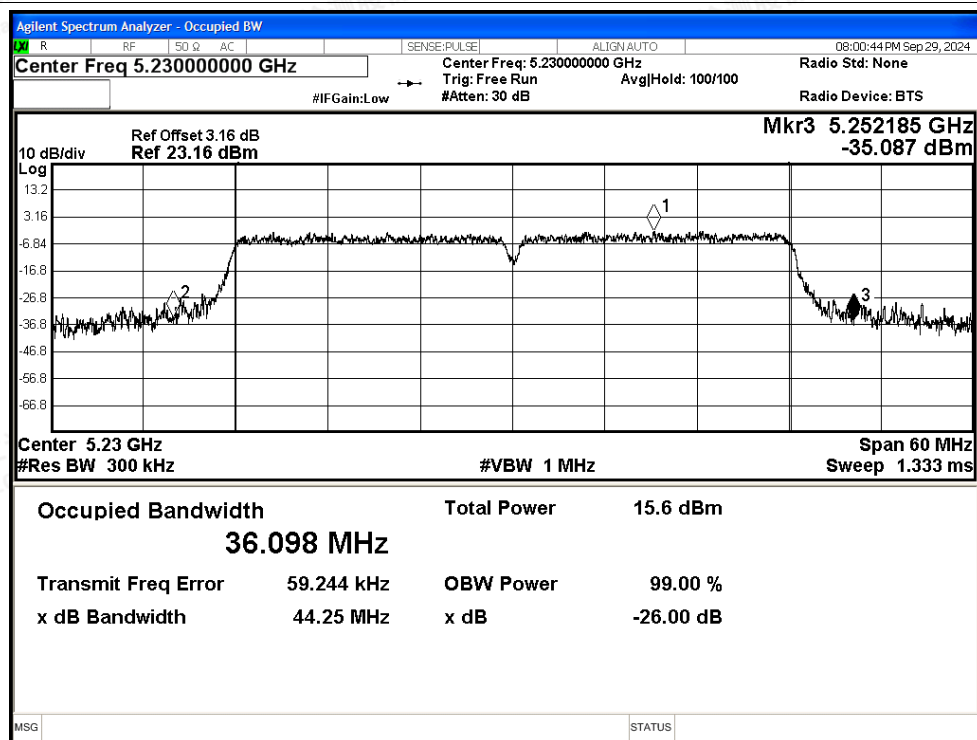
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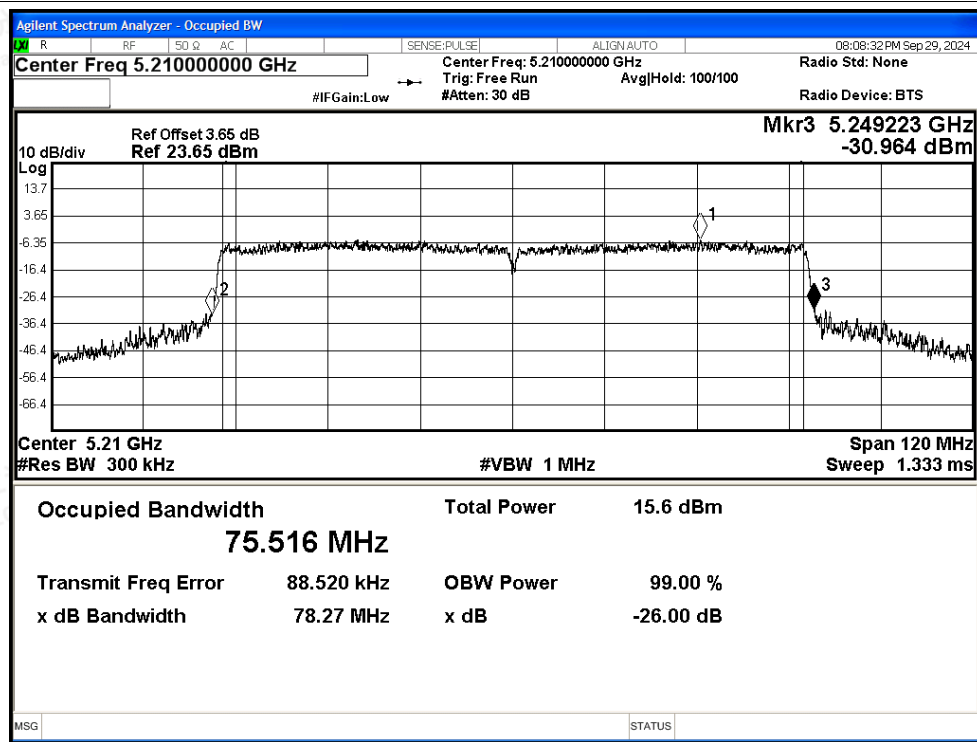
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## -26dB Bandwidth NVNT ax40 5230MHz Ant1



## -26dB Bandwidth NVNT ax80 5210MHz Ant1



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## D.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 12.36                 | 0.24             | 12.6              | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 12.67                 | 0.24             | 12.91             | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 12.24                 | 0.24             | 12.48             | 24          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 11.28                 | 0.12             | 11.4              | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 11.09                 | 0.12             | 11.21             | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 11.62                 | 0.12             | 11.74             | 24          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 10.91                 | 0.12             | 11.03             | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 10.9                  | 0.12             | 11.02             | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 11.26                 | 0.12             | 11.38             | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 11.14                 | 0.12             | 11.26             | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 11.63                 | 0.12             | 11.75             | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 10.1                  | 0.12             | 10.22             | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 9.95                  | 0.12             | 10.07             | 24          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 9.17                  | 0.25             | 9.42              | 24          | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 12.22                 | 0.12             | 12.34             | 24          | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 11.05                 | 0.12             | 11.17             | 24          | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 11.62                 | 0.12             | 11.74             | 24          | Pass    |
| NVNT      | ax40 | 5190            | Ant1    | 9.98                  | 0.12             | 10.1              | 24          | Pass    |
| NVNT      | ax40 | 5230            | Ant1    | 9.91                  | 0.12             | 10.03             | 24          | Pass    |
| NVNT      | ax80 | 5210            | Ant1    | 9.14                  | 0.25             | 9.39              | 24          | Pass    |



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### D.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT      | a    | 5180            | Ant1    | 2.12                    | 0.24             | 2.36                | 11              | Pass    |
| NVNT      | a    | 5200            | Ant1    | 2.22                    | 0.24             | 2.46                | 11              | Pass    |
| NVNT      | a    | 5240            | Ant1    | 0.65                    | 0.24             | 0.89                | 11              | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 0.62                    | 0.12             | 0.74                | 11              | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 0.38                    | 0.12             | 0.5                 | 11              | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -0.13                   | 0.12             | -0.01               | 11              | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -2.95                   | 0.12             | -2.83               | 11              | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -2.7                    | 0.12             | -2.58               | 11              | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 0.51                    | 0.12             | 0.63                | 11              | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 2.11                    | 0.12             | 2.23                | 11              | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 1.79                    | 0.12             | 1.91                | 11              | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -2.88                   | 0.12             | -2.76               | 11              | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -3.58                   | 0.12             | -3.46               | 11              | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -7.07                   | 0.25             | -6.82               | 11              | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 1.51                    | 0.12             | 1.63                | 11              | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 1.3                     | 0.12             | 1.42                | 11              | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 1.78                    | 0.12             | 1.9                 | 11              | Pass    |
| NVNT      | ax40 | 5190            | Ant1    | -3.94                   | 0.12             | -3.82               | 11              | Pass    |
| NVNT      | ax40 | 5230            | Ant1    | -3.61                   | 0.12             | -3.49               | 11              | Pass    |
| NVNT      | ax80 | 5210            | Ant1    | -7.44                   | 0.25             | -7.19               | 11              | Pass    |



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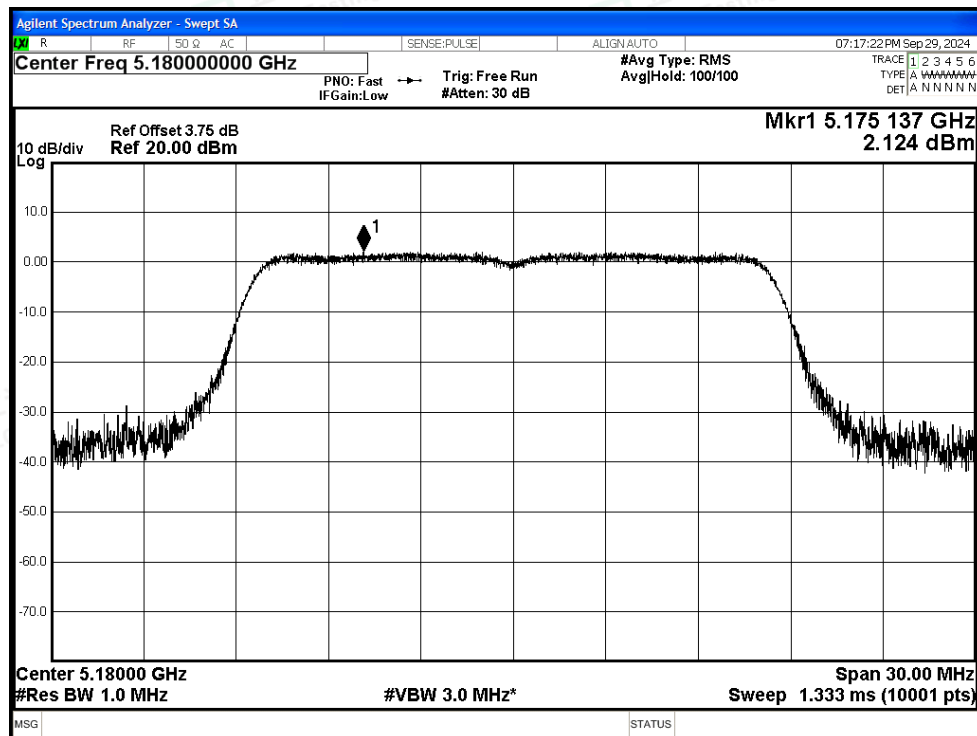
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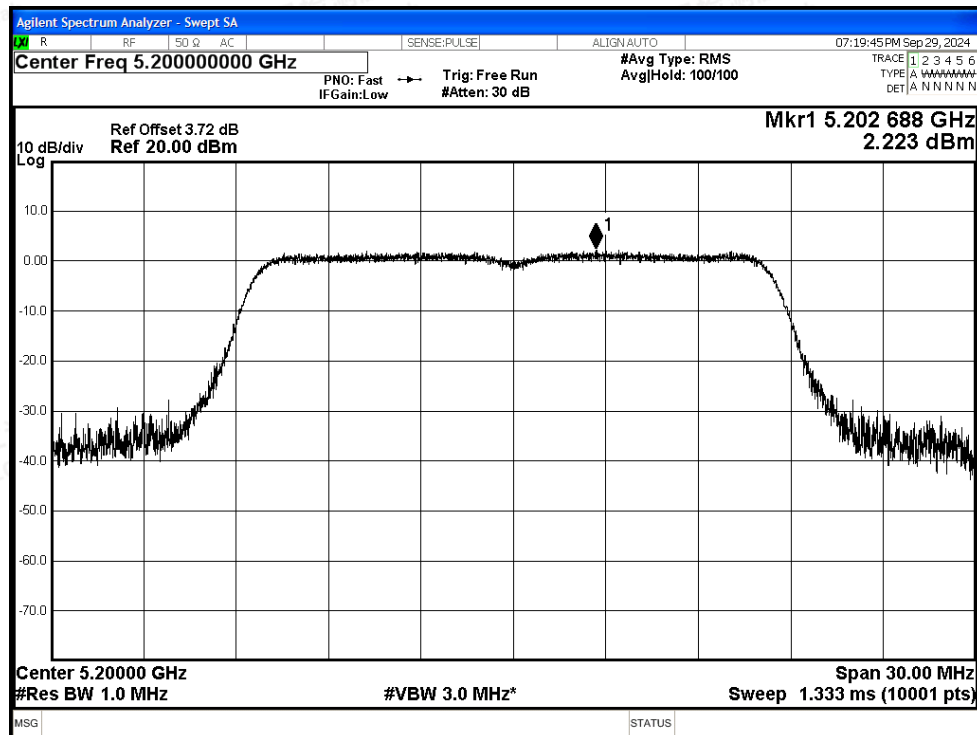


## Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1

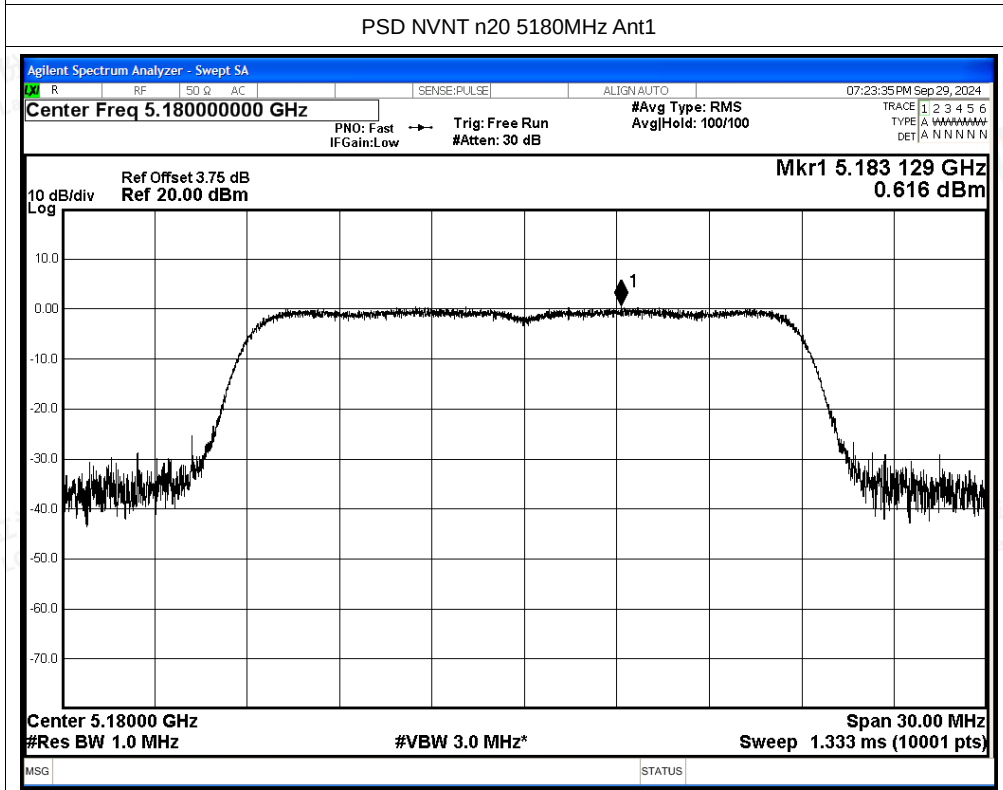
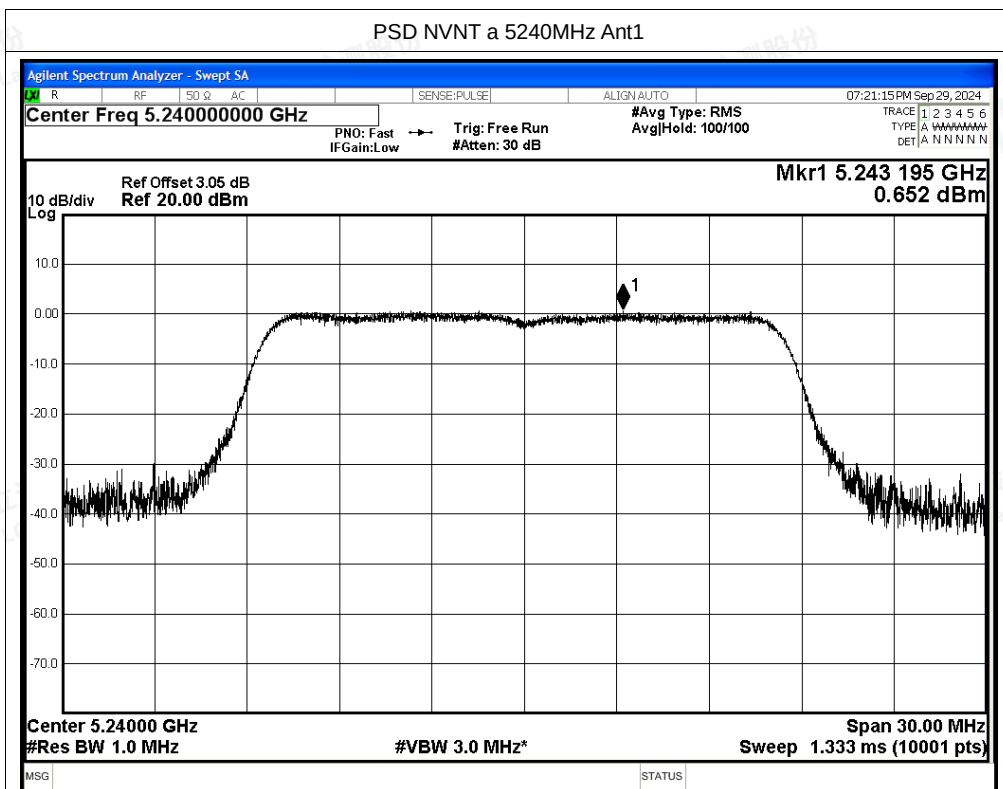


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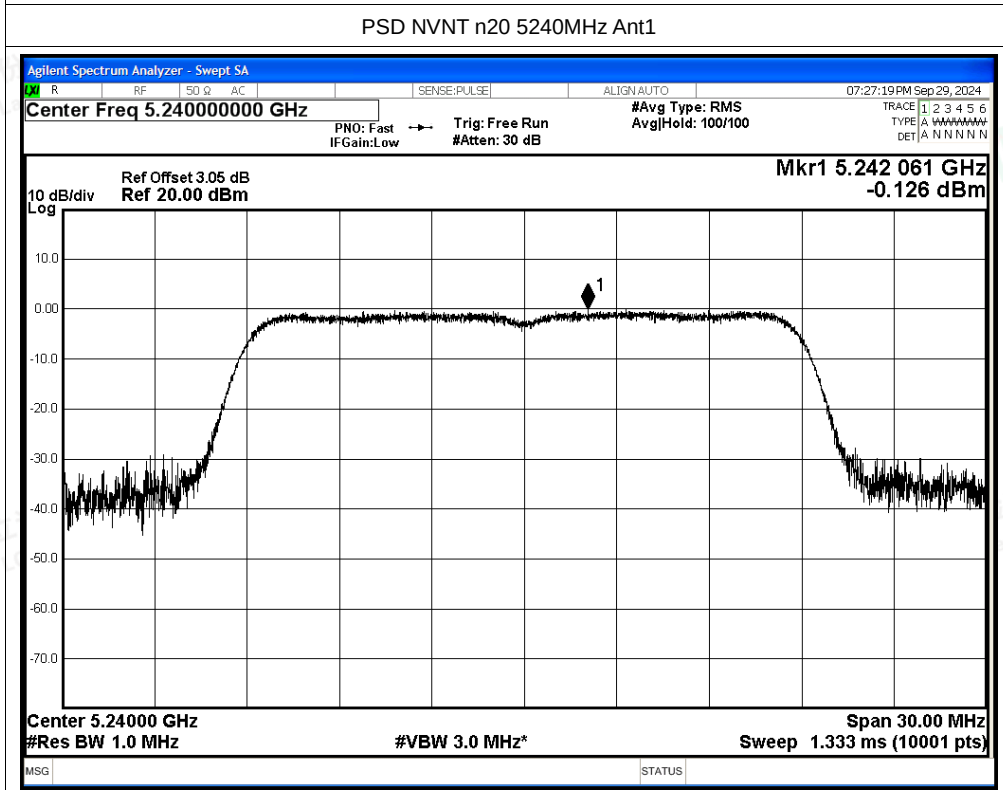
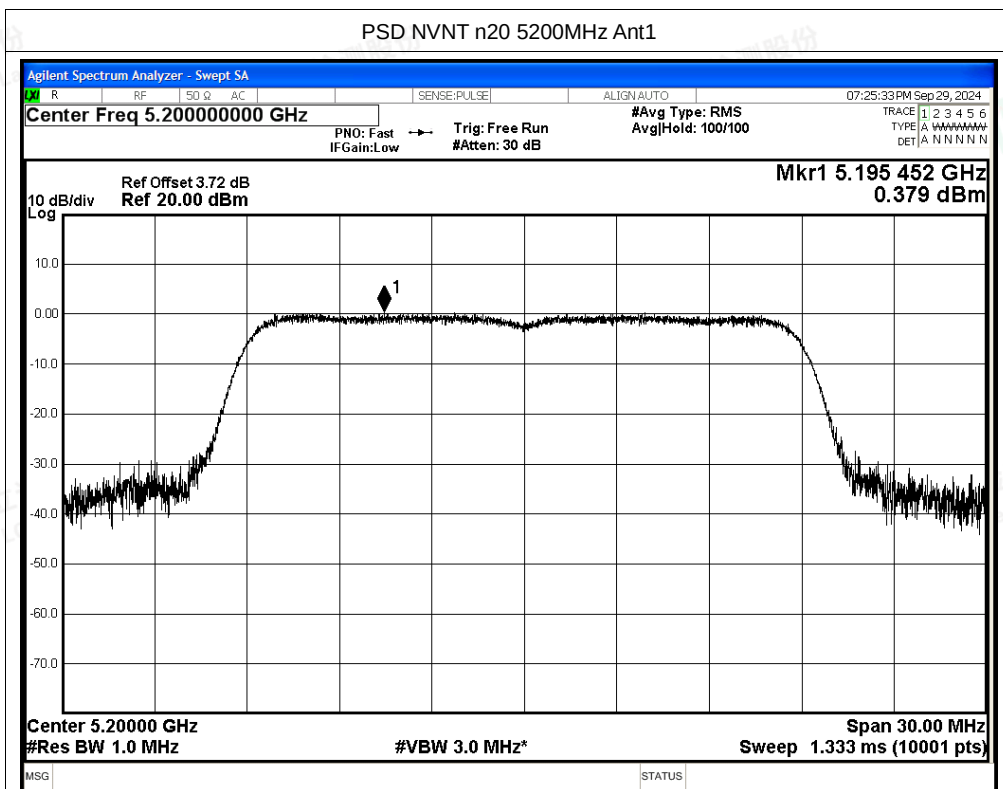


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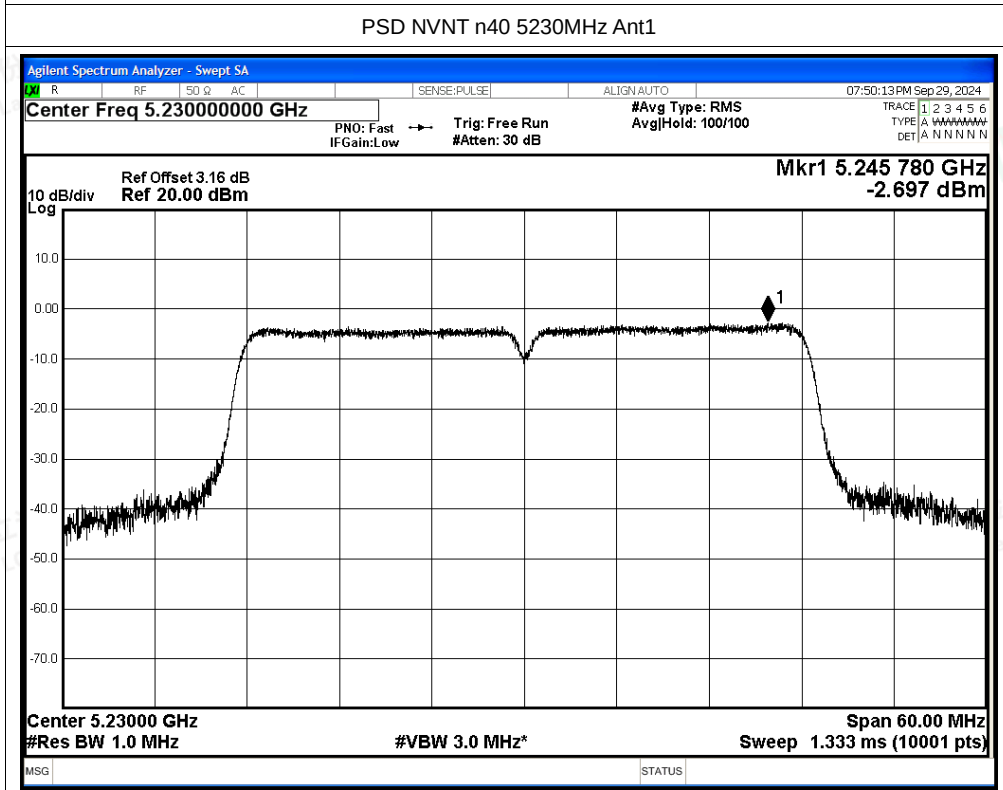
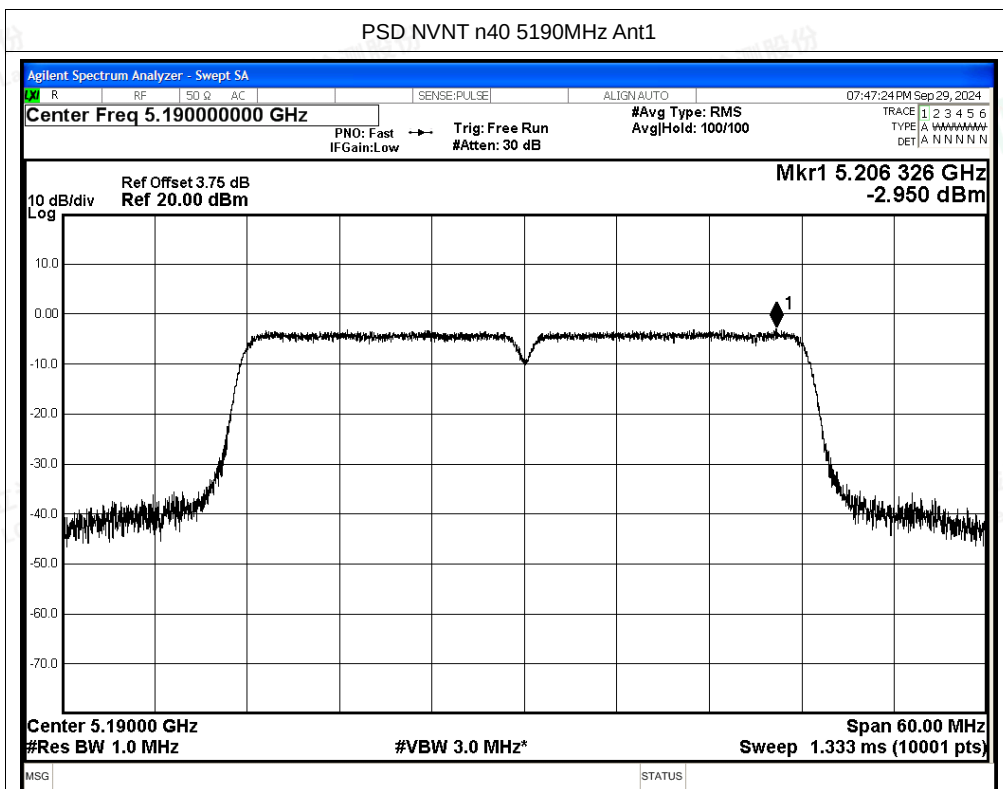


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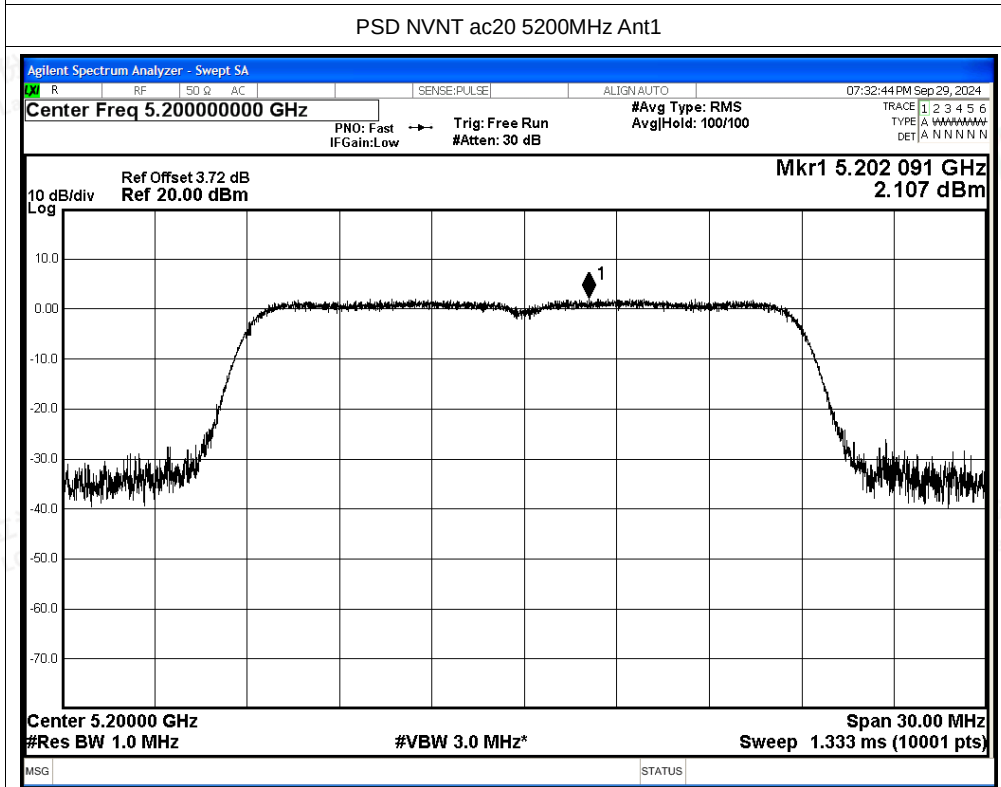
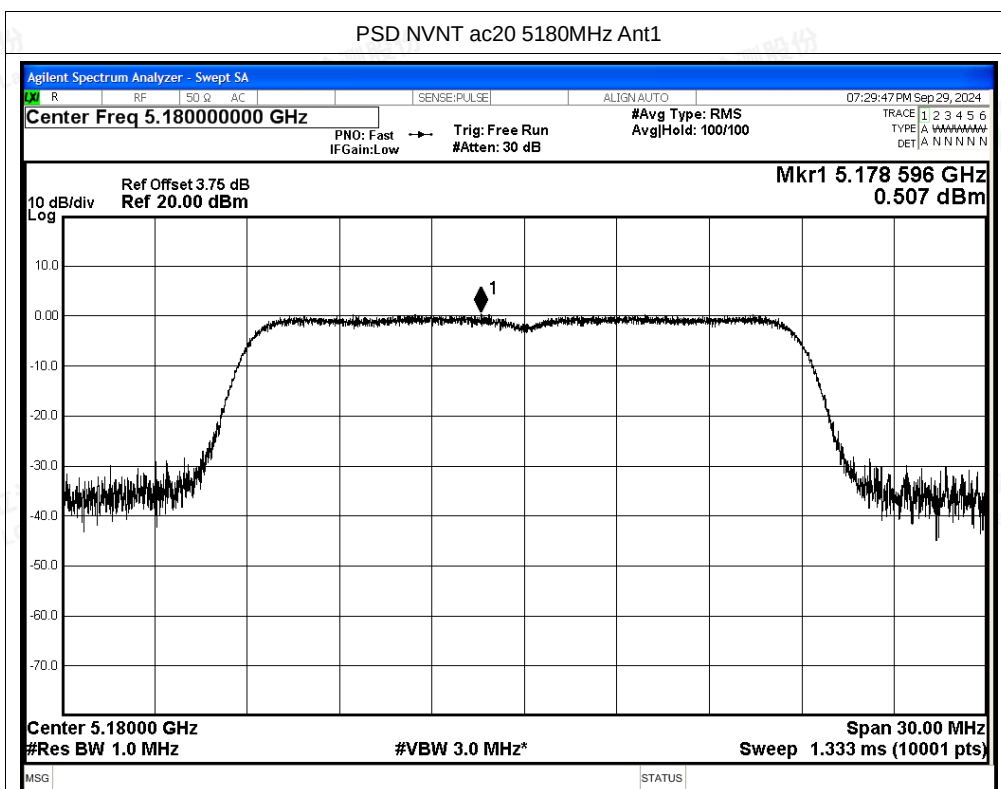


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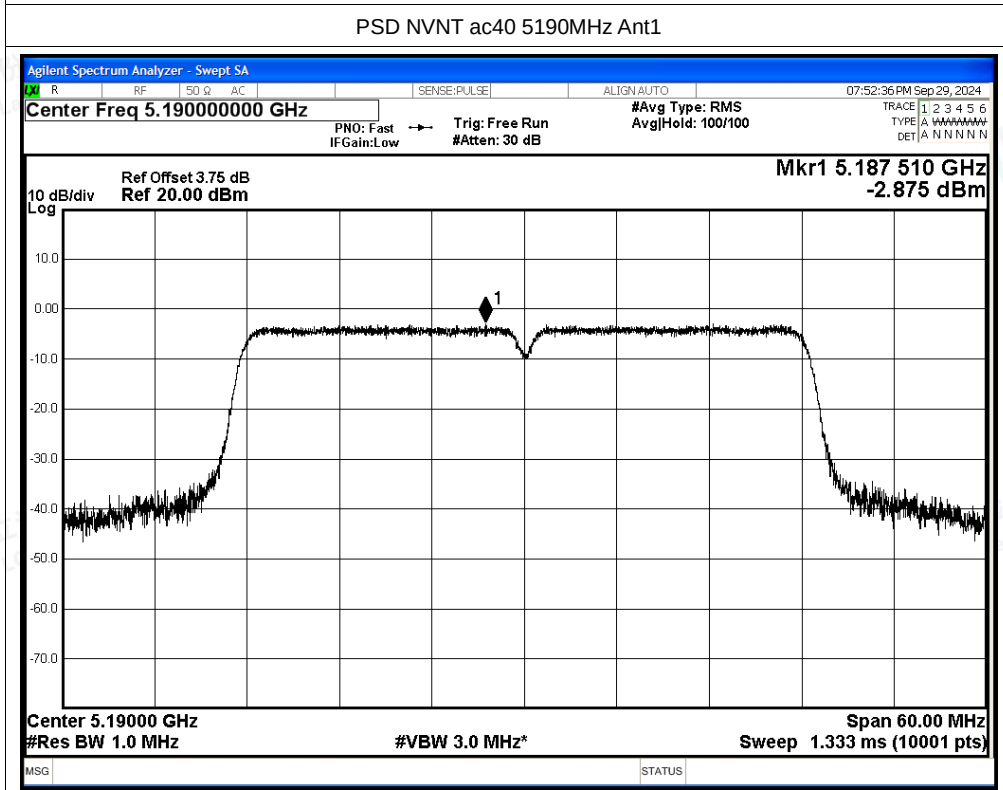
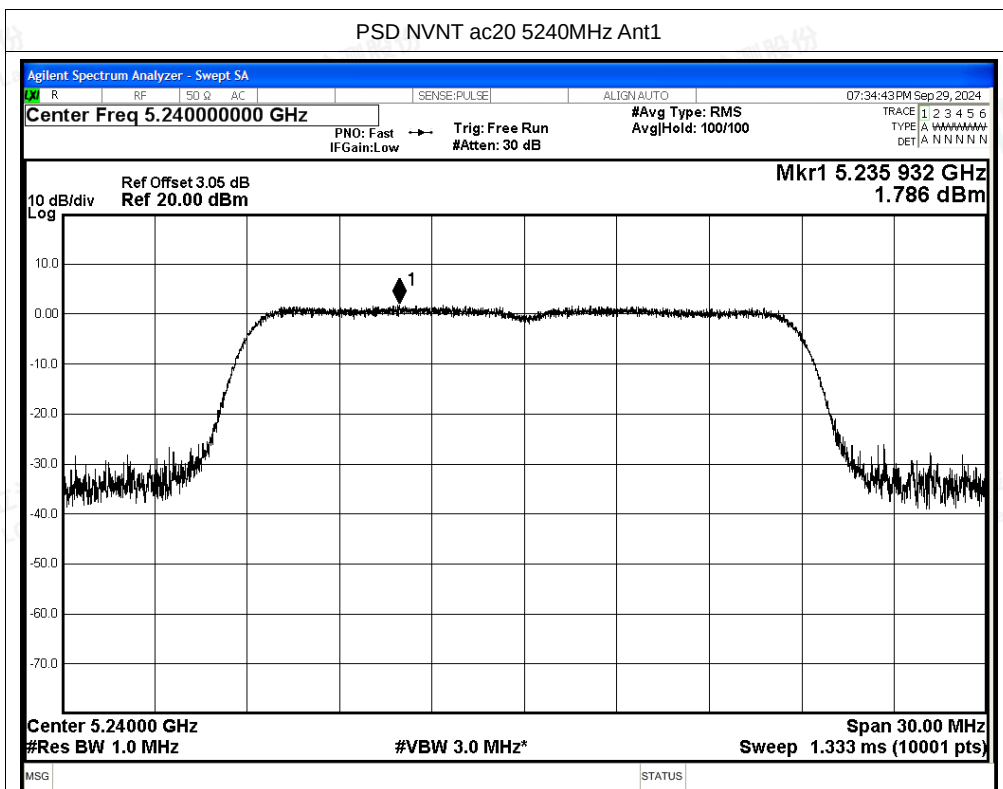


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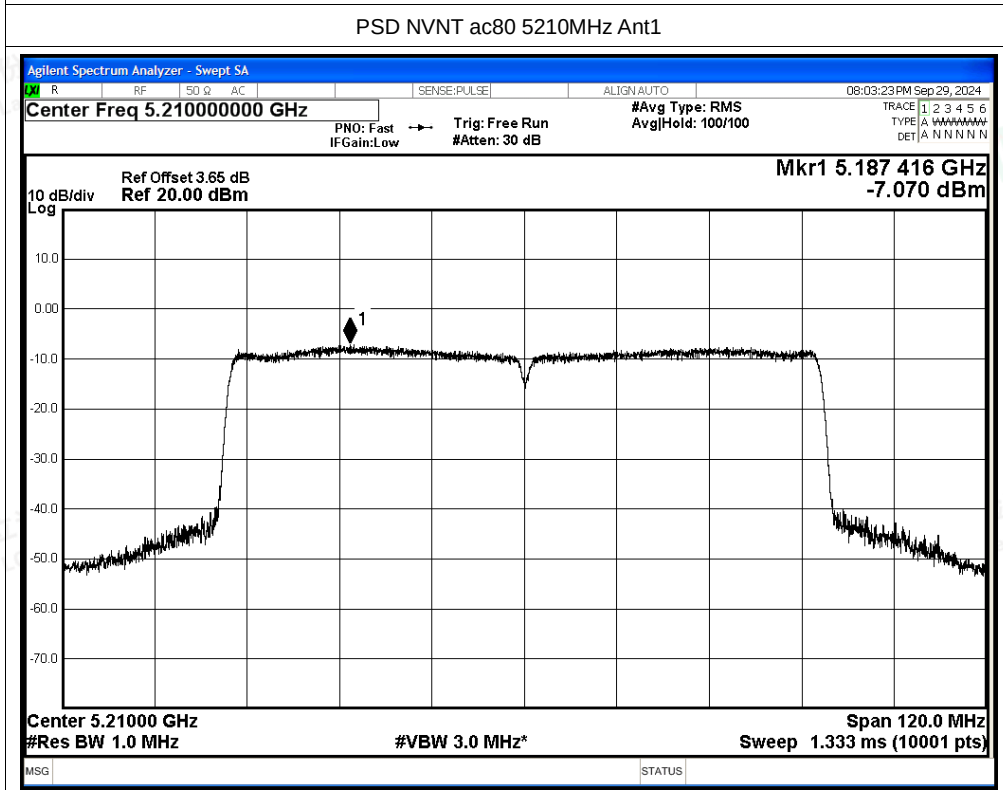
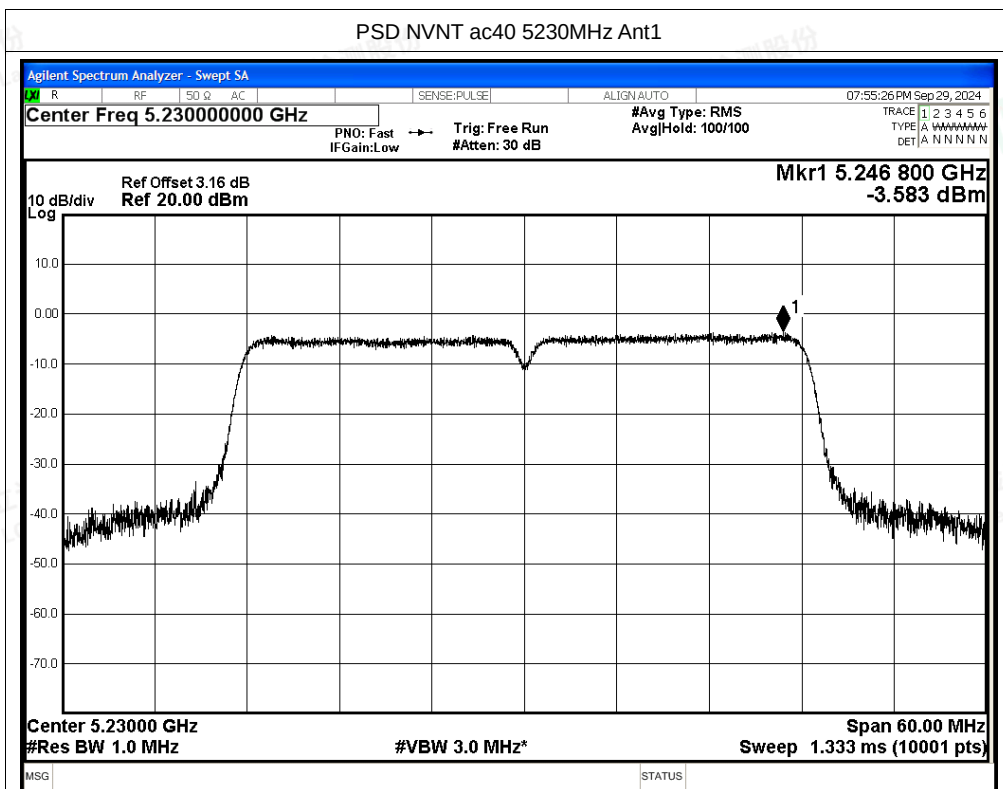


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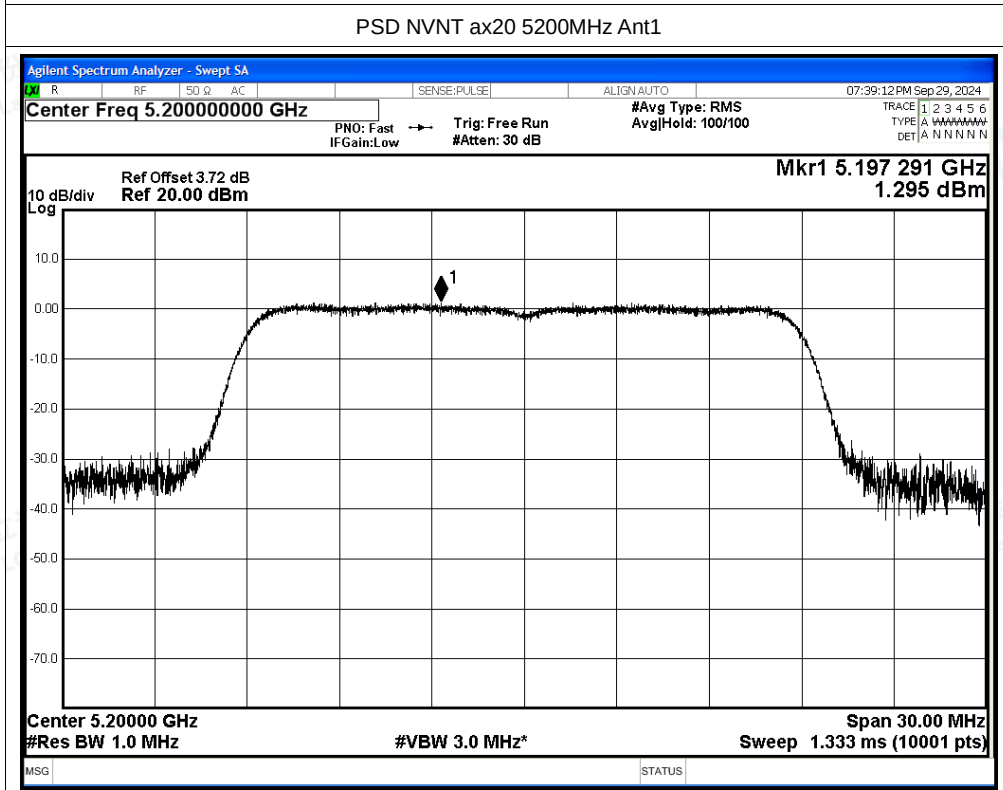
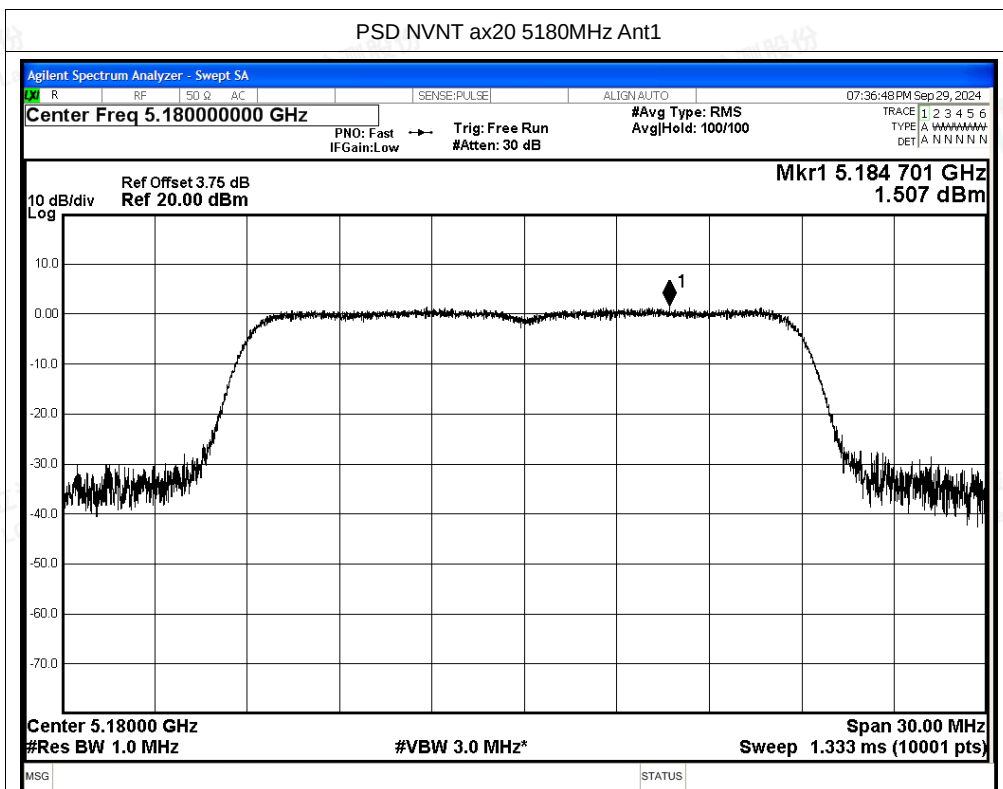


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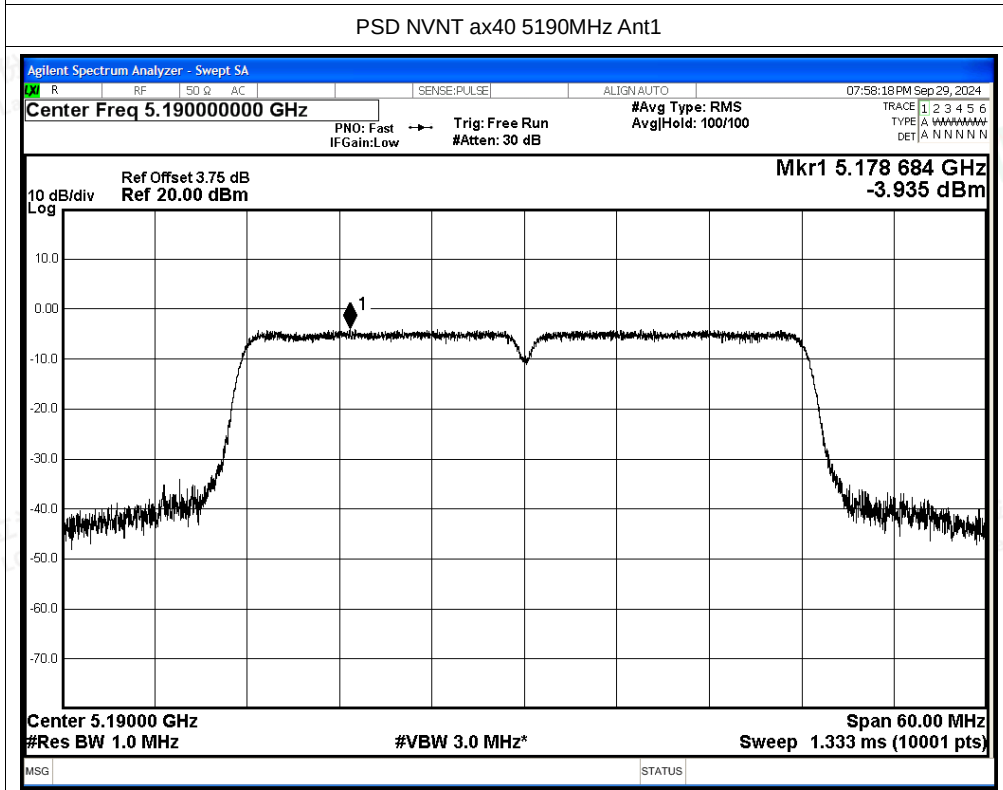
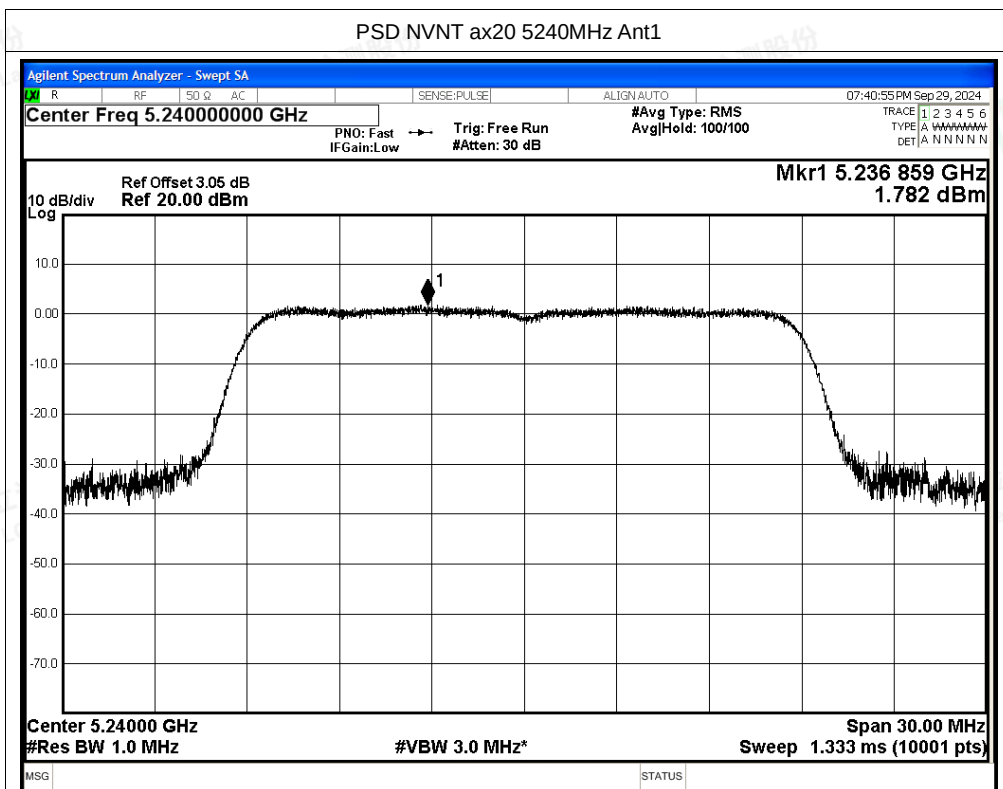


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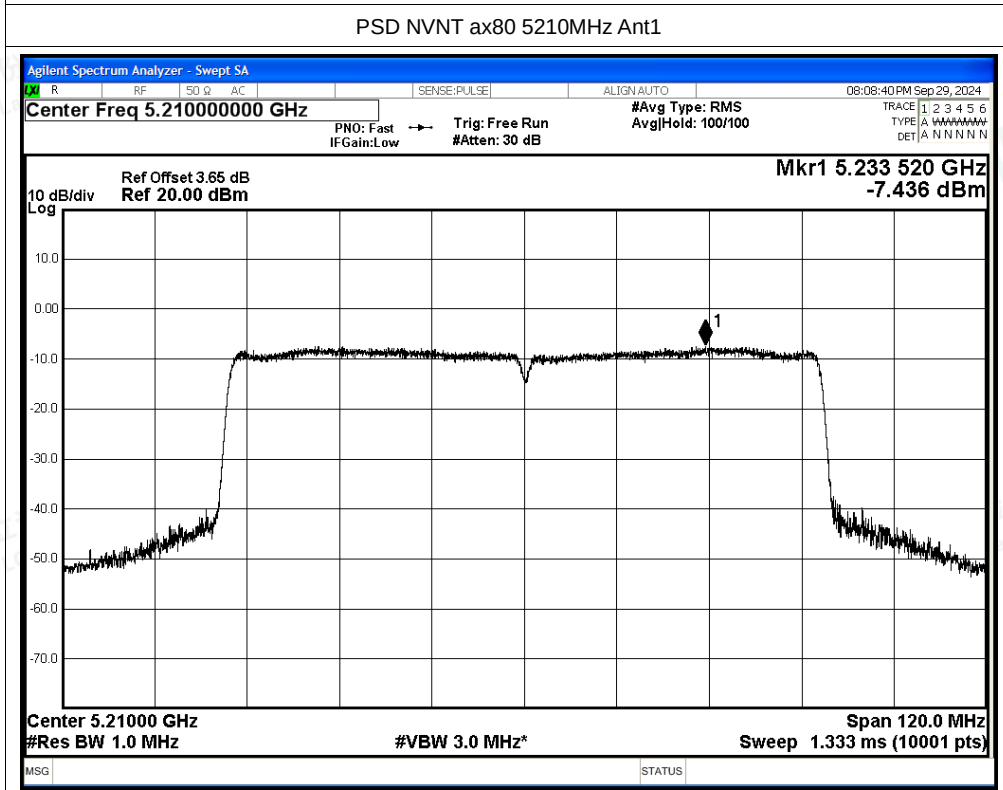
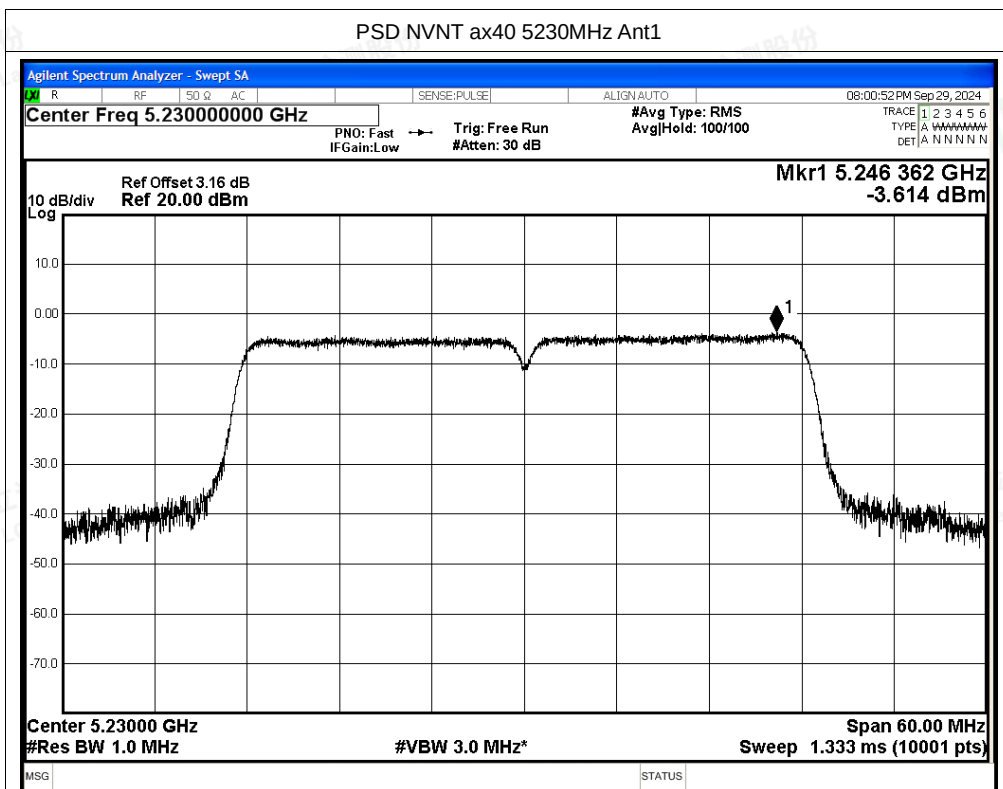


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## D.4 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | a    | 5180            | Ant1    | 4500            | -50.17      | 2.84       | -                | 47.90      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5180            | Ant1    | 4500            | -58.82      | 2.84       | 0.24             | 39.49      | Average  | 54             | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5148.9          | -43.36      | 2.84       | -                | 54.71      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5149.6          | -53.23      | 2.84       | 0.24             | 45.08      | Average  | 54             | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5150            | -42.15      | 2.84       | -                | 55.92      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5150            | -53.36      | 2.84       | 0.24             | 44.95      | Average  | 54             | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5350            | -48.54      | 2.84       | -                | 49.53      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5350            | -57.3       | 2.84       | 0.24             | 41.01      | Average  | 54             | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5379.12         | -47.37      | 2.84       | -                | 50.70      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5352            | -56.84      | 2.84       | 0.24             | 41.47      | Average  | 54             | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5460            | -50.59      | 2.84       | -                | 47.48      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5460            | -58.18      | 2.84       | 0.24             | 40.13      | Average  | 54             | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 4500            | -50.96      | 2.84       | -                | 47.11      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 4500            | -58.18      | 2.84       | 0.12             | 40.01      | Average  | 54             | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5149.6          | -34.17      | 2.84       | -                | 63.90      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5148.9          | -51.93      | 2.84       | 0.12             | 46.26      | Average  | 54             | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5150            | -34.33      | 2.84       | -                | 63.74      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5150            | -50.81      | 2.84       | 0.12             | 47.38      | Average  | 54             | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5350            | -50.08      | 2.84       | -                | 47.99      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5350            | -57.43      | 2.84       | 0.12             | 40.76      | Average  | 54             | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5374.32         | -47.44      | 2.84       | -                | 50.63      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5374.8          | -56.96      | 2.84       | 0.12             | 41.23      | Average  | 54             | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5460            | -50.21      | 2.84       | -                | 47.86      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5460            | -57.92      | 2.84       | 0.12             | 40.27      | Average  | 54             | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 4500            | -50.65      | 2.84       | -                | 47.42      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 4500            | -58.54      | 2.84       | 0.12             | 39.65      | Average  | 54             | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 5149.7          | -39.09      | 2.84       | -                | 58.98      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 5149.7          | -52.49      | 2.84       | 0.12             | 45.70      | Average  | 54             | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 5150            | -39.09      | 2.84       | -                | 58.98      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 5150            | -52.49      | 2.84       | 0.12             | 45.70      | Average  | 54             | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5350            | -49.7       | 2.84       | -                | 48.37      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5350            | -58.09      | 2.84       | 0.12             | 40.10      | Average  | 54             | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5363.61         | -46.59      | 2.84       | -                | 51.48      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5367.66         | -56.86      | 2.84       | 0.12             | 41.33      | Average  | 54             | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5460            | -50.48      | 2.84       | -                | 47.59      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5460            | -58.24      | 2.84       | 0.12             | 39.95      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 4500            | -49.69      | 2.84       | -                | 48.38      | Peak     | 68.2           | Pass    |



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|      |      |      |      |         |        |      |      |       |         |      |      |
|------|------|------|------|---------|--------|------|------|-------|---------|------|------|
| NVNT | ac20 | 5180 | Ant1 | 4500    | -58.41 | 2.84 | 0.12 | 39.78 | Average | 54   | Pass |
| NVNT | ac20 | 5180 | Ant1 | 5149.6  | -33.9  | 2.84 | -    | 64.17 | Peak    | 68.2 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 5149.6  | -51.77 | 2.84 | 0.12 | 46.42 | Average | 54   | Pass |
| NVNT | ac20 | 5180 | Ant1 | 5150    | -33.98 | 2.84 | -    | 64.09 | Peak    | 68.2 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 5150    | -51.85 | 2.84 | 0.12 | 46.34 | Average | 54   | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5350    | -48.06 | 2.84 | -    | 50.01 | Peak    | 68.2 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5350    | -56.68 | 2.84 | 0.12 | 41.51 | Average | 54   | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5351.28 | -46.67 | 2.84 | -    | 51.40 | Peak    | 68.2 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5351.04 | -56.57 | 2.84 | 0.12 | 41.62 | Average | 54   | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5460    | -48.97 | 2.84 | -    | 49.10 | Peak    | 68.2 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 5460    | -57.87 | 2.84 | 0.12 | 40.32 | Average | 54   | Pass |
| NVNT | ac40 | 5190 | Ant1 | 4500    | -50.99 | 2.84 | -    | 47.08 | Peak    | 68.2 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 4500    | -58.62 | 2.84 | 0.12 | 39.57 | Average | 54   | Pass |
| NVNT | ac40 | 5190 | Ant1 | 5147.51 | -39.35 | 2.84 | -    | 58.72 | Peak    | 68.2 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 5149.7  | -52.46 | 2.84 | 0.12 | 45.73 | Average | 54   | Pass |
| NVNT | ac40 | 5190 | Ant1 | 5150    | -41.93 | 2.84 | -    | 56.14 | Peak    | 68.2 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 5150    | -52.46 | 2.84 | 0.12 | 45.73 | Average | 54   | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5350    | -49.47 | 2.84 | -    | 48.60 | Peak    | 68.2 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5350    | -57.45 | 2.84 | 0.12 | 40.74 | Average | 54   | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5371.98 | -46.53 | 2.84 | -    | 51.54 | Peak    | 68.2 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5403.84 | -57.09 | 2.84 | 0.12 | 41.10 | Average | 54   | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5460    | -49.7  | 2.84 | -    | 48.37 | Peak    | 68.2 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 5460    | -57.79 | 2.84 | 0.12 | 40.40 | Average | 54   | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5350    | -46.88 | 2.84 | -    | 51.19 | Peak    | 68.2 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5350    | -56.17 | 2.84 | 0.25 | 42.15 | Average | 54   | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5437.23 | -45.96 | 2.84 | -    | 52.11 | Peak    | 68.2 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5350.11 | -56.17 | 2.84 | 0.25 | 42.15 | Average | 54   | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5460    | -50.48 | 2.84 | -    | 47.59 | Peak    | 68.2 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5460    | -57.73 | 2.84 | 0.25 | 40.59 | Average | 54   | Pass |
| NVNT | ac80 | 5210 | Ant1 | 4500    | -50.03 | 2.84 | -    | 48.04 | Peak    | 68.2 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 4500    | -58.88 | 2.84 | 0.25 | 39.44 | Average | 54   | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5138.32 | -39.86 | 2.84 | -    | 58.21 | Peak    | 68.2 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5135.16 | -50.93 | 2.84 | 0.25 | 47.39 | Average | 54   | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5150    | -42.08 | 2.84 | -    | 55.99 | Peak    | 68.2 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 5150    | -51.58 | 2.84 | 0.25 | 46.74 | Average | 54   | Pass |
| NVNT | ax20 | 5180 | Ant1 | 4500    | -50.39 | 2.84 | -    | 47.68 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 4500    | -57.98 | 2.84 | 0.12 | 40.21 | Average | 54   | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5147.5  | -40.63 | 2.84 | -    | 57.44 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5149.6  | -53.09 | 2.84 | 0.12 | 45.10 | Average | 54   | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5150    | -40.03 | 2.84 | -    | 58.04 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5150    | -52.38 | 2.84 | 0.12 | 45.81 | Average | 54   | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5350    | -48.25 | 2.84 | -    | 49.82 | Peak    | 68.2 | Pass |



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|------|------|------|------|---------|--------|------|------|-------|---------|------|------|
| NVNT | ax20 | 5240 | Ant1 | 5350    | -57.08 | 2.84 | 0.12 | 41.11 | Average | 54   | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5429.04 | -47.3  | 2.84 | -    | 50.77 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5350.56 | -56.62 | 2.84 | 0.12 | 41.57 | Average | 54   | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5460    | -51.18 | 2.84 | -    | 46.89 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5460    | -57.6  | 2.84 | 0.12 | 40.59 | Average | 54   | Pass |
| NVNT | ax40 | 5190 | Ant1 | 4500    | -49.13 | 2.84 | -    | 48.94 | Peak    | 68.2 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 4500    | -57.55 | 2.84 | 0.12 | 40.64 | Average | 54   | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5149.7  | -37.77 | 2.84 | -    | 60.30 | Peak    | 68.2 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5148.24 | -51.94 | 2.84 | 0.12 | 46.25 | Average | 54   | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5150    | -37.77 | 2.84 | -    | 60.30 | Peak    | 68.2 | Pass |
| NVNT | ax40 | 5190 | Ant1 | 5150    | -52.56 | 2.84 | 0.12 | 45.63 | Average | 54   | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5350    | -48.55 | 2.84 | -    | 49.52 | Peak    | 68.2 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5350    | -58.11 | 2.84 | 0.12 | 40.08 | Average | 54   | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5457.84 | -46.66 | 2.84 | -    | 51.41 | Peak    | 68.2 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5423.82 | -56.88 | 2.84 | 0.12 | 41.31 | Average | 54   | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5460    | -48.48 | 2.84 | -    | 49.59 | Peak    | 68.2 | Pass |
| NVNT | ax40 | 5230 | Ant1 | 5460    | -58.03 | 2.84 | 0.12 | 40.16 | Average | 54   | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5350    | -49.7  | 2.84 | -    | 48.37 | Peak    | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5350    | -56.74 | 2.84 | 0.25 | 41.58 | Average | 54   | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5382.12 | -47.17 | 2.84 | -    | 50.90 | Peak    | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5354.4  | -56.54 | 2.84 | 0.25 | 41.78 | Average | 54   | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5460    | -50.28 | 2.84 | -    | 47.79 | Peak    | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5460    | -57.66 | 2.84 | 0.25 | 40.66 | Average | 54   | Pass |
| NVNT | ax80 | 5210 | Ant1 | 4500    | -49.71 | 2.84 | -    | 48.36 | Peak    | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 4500    | -58.59 | 2.84 | 0.25 | 39.73 | Average | 54   | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5139.9  | -40.57 | 2.84 | -    | 57.50 | Peak    | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5139.11 | -50.76 | 2.84 | 0.25 | 47.56 | Average | 54   | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5150    | -43.38 | 2.84 | -    | 54.69 | Peak    | 68.2 | Pass |
| NVNT | ax80 | 5210 | Ant1 | 5150    | -51.67 | 2.84 | 0.25 | 46.65 | Average | 54   | Pass |



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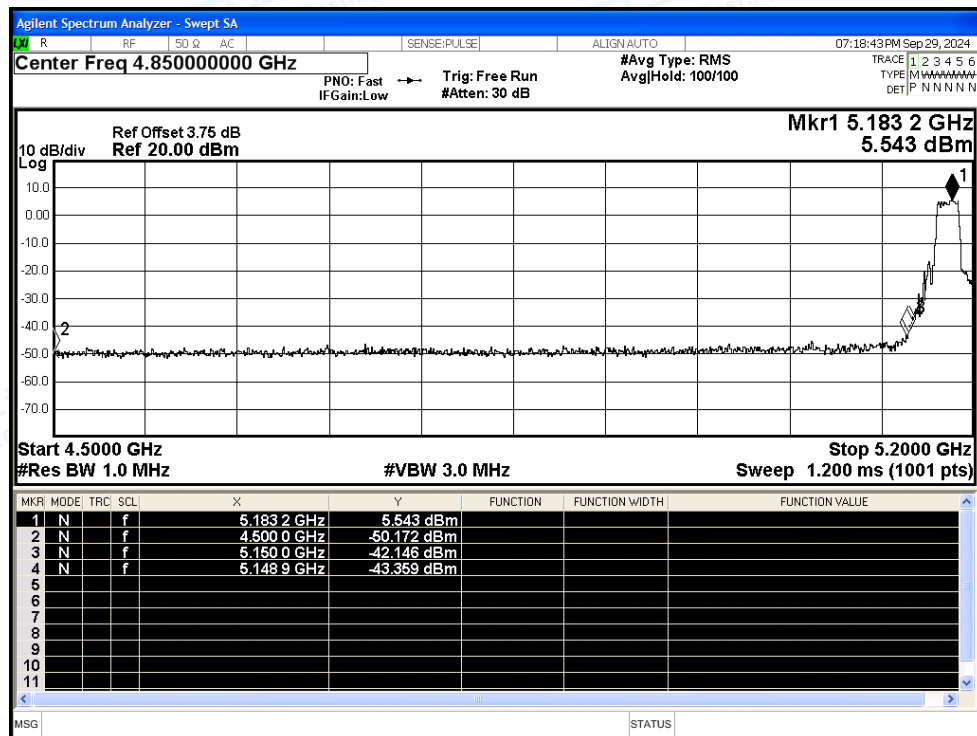
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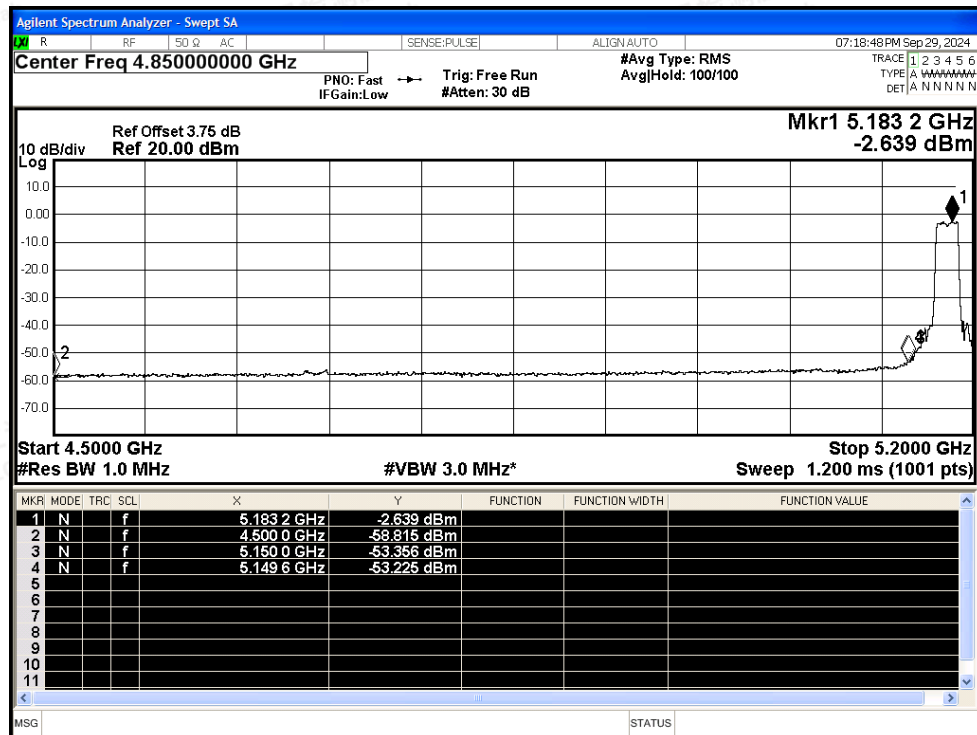


## Test Graphs

## Restrict Band NVNT a 5180MHz Ant1 Peak



## Restrict Band NVNT a 5180MHz Ant1 Average



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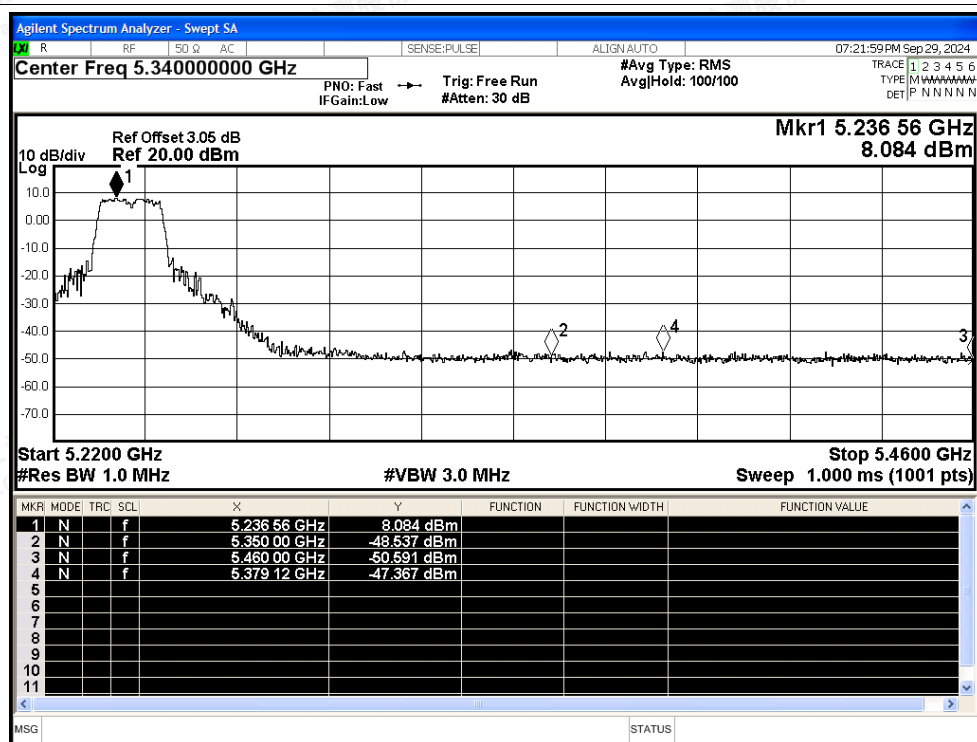
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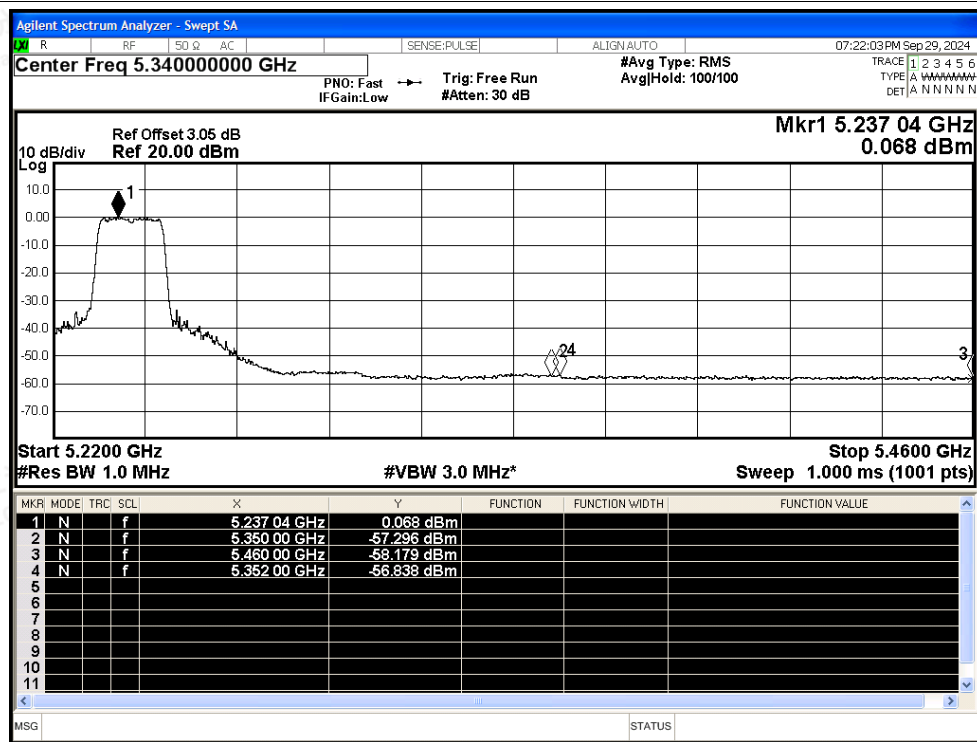
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## Restrict Band NVNT a 5240MHz Ant1 Peak



## Restrict Band NVNT a 5240MHz Ant1 Average



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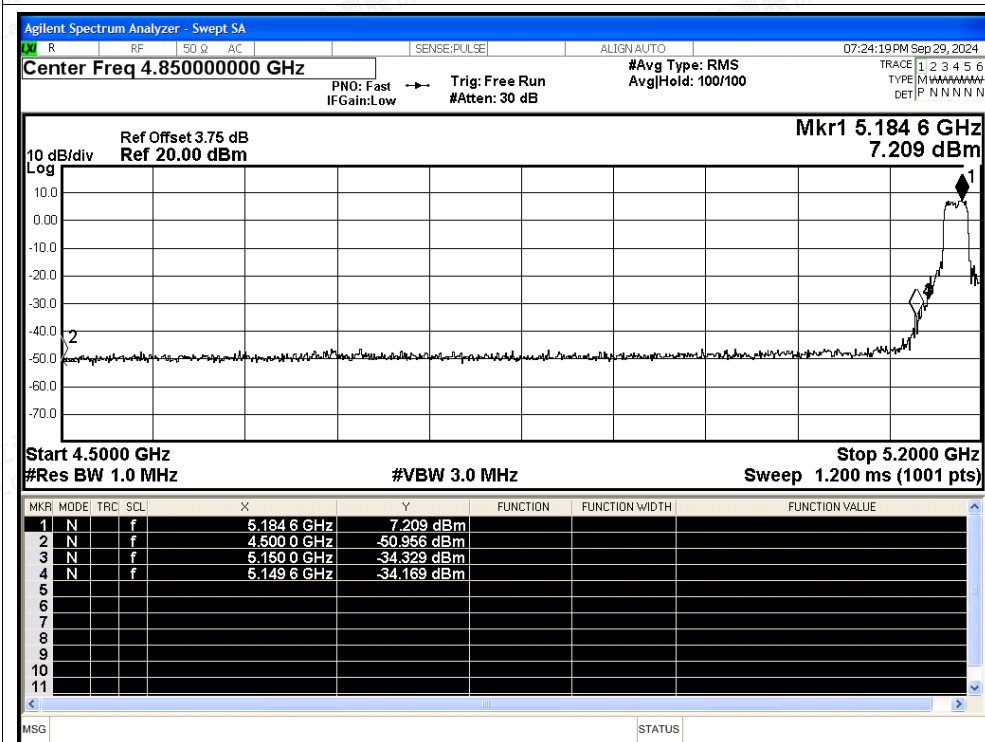
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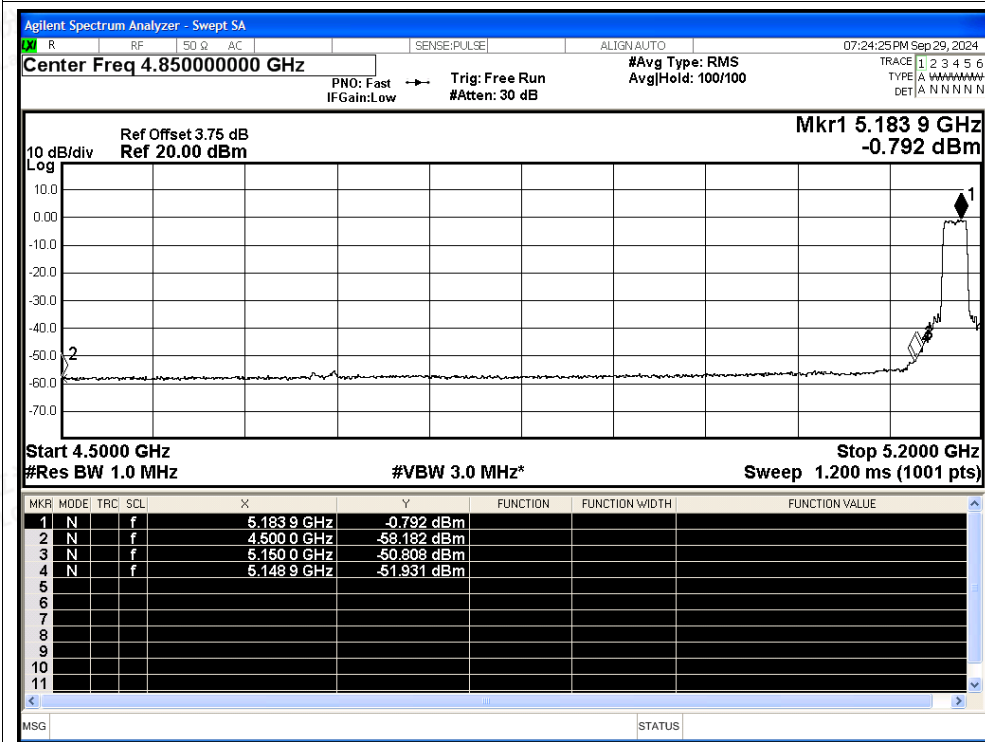
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## Restrict Band NVNT n20 5180MHz Ant1 Peak



## Restrict Band NVNT n20 5180MHz Ant1 Average



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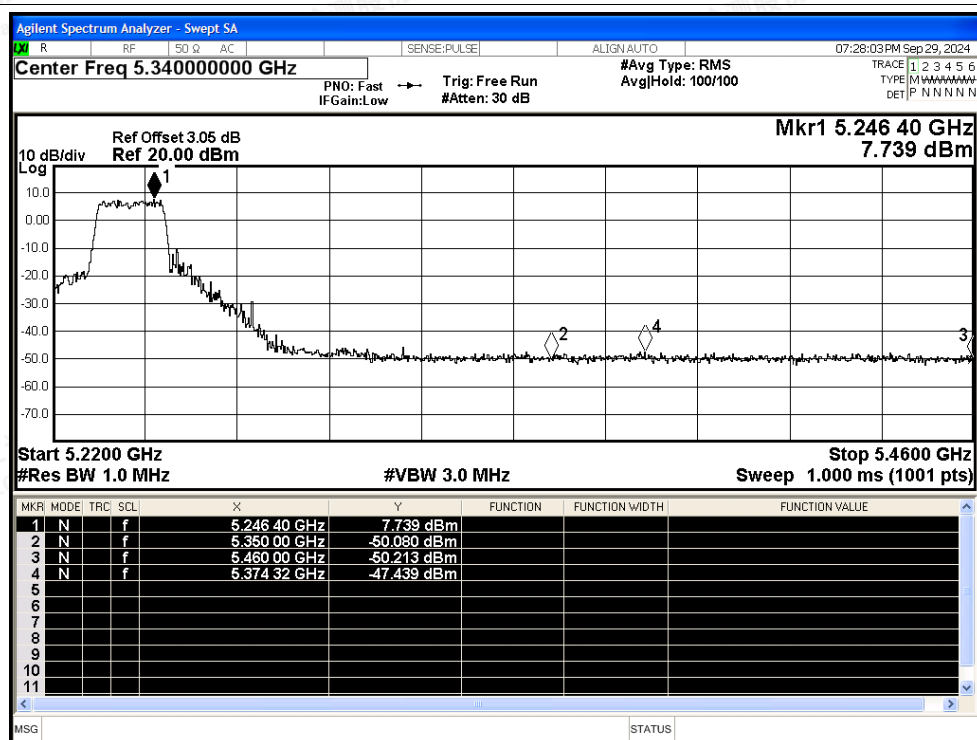
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

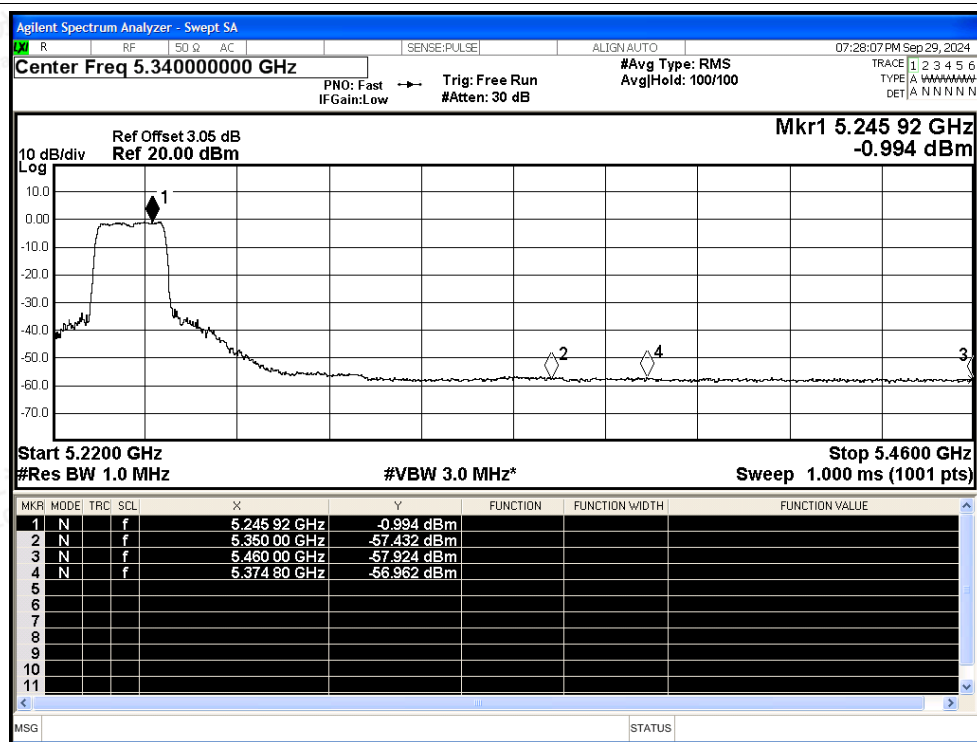
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## Restrict Band NVNT n20 5240MHz Ant1 Peak



## Restrict Band NVNT n20 5240MHz Ant1 Average



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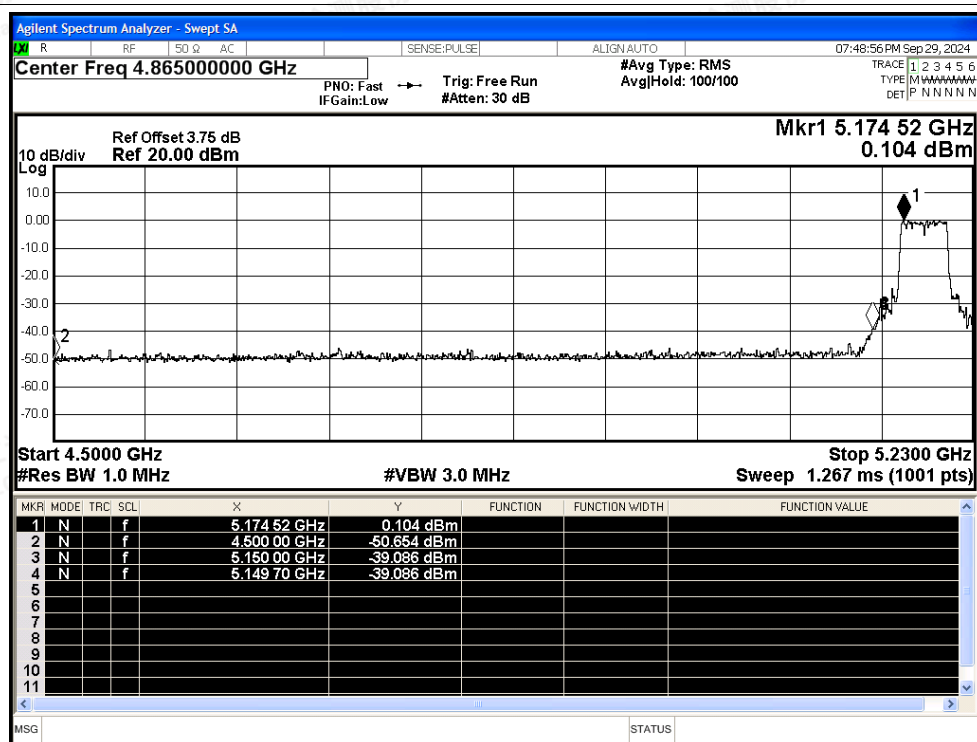
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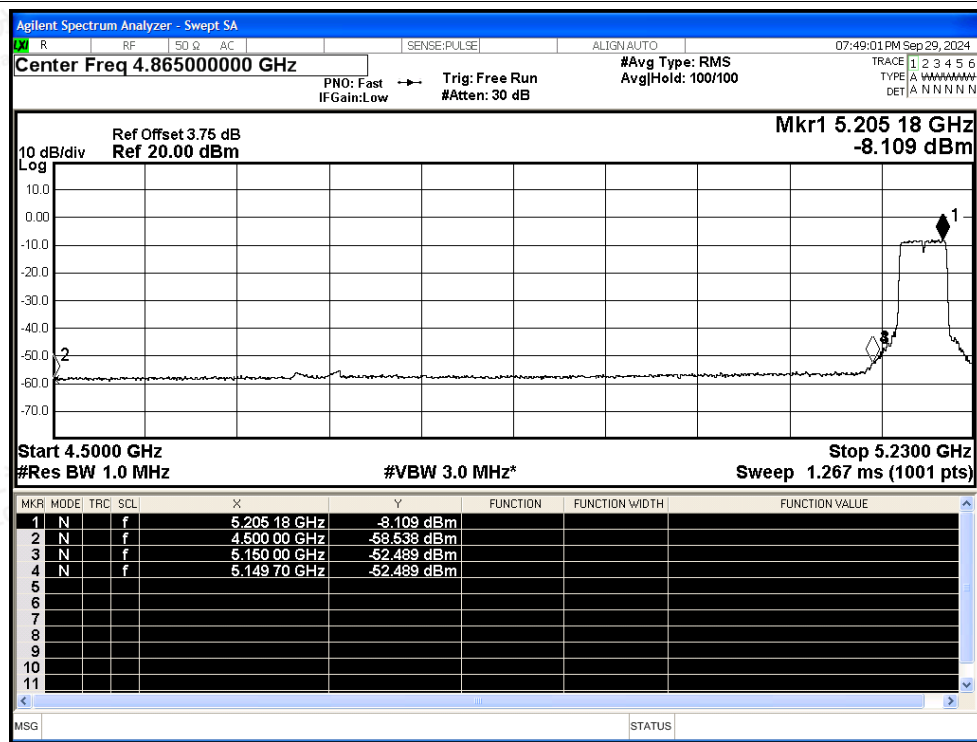
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## Restrict Band NVNT n40 5190MHz Ant1 Peak



## Restrict Band NVNT n40 5190MHz Ant1 Average



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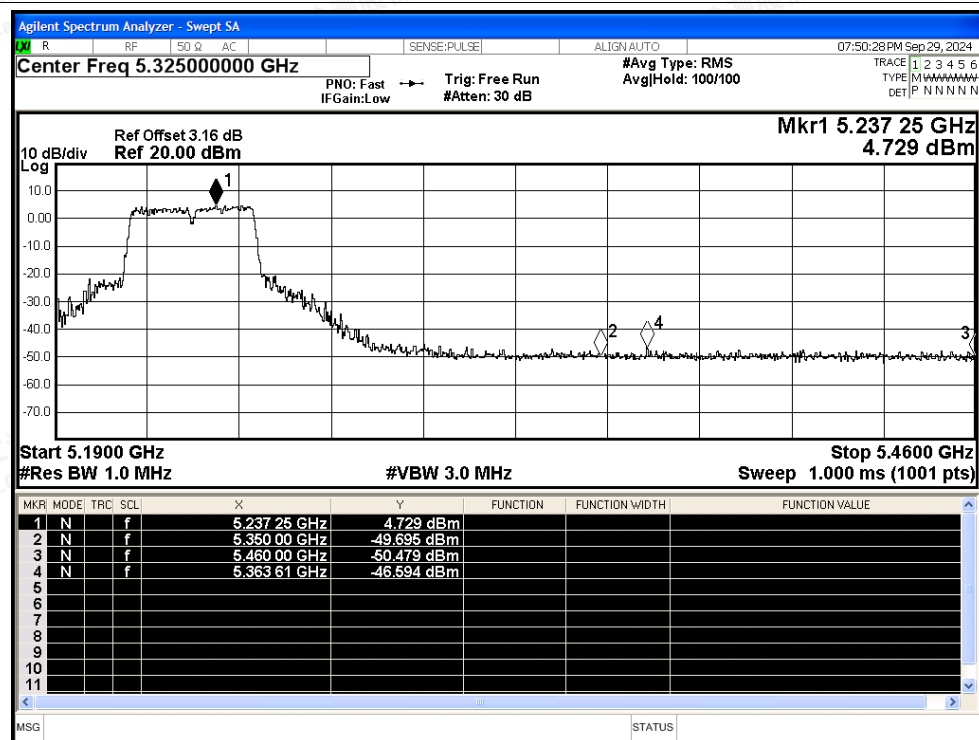
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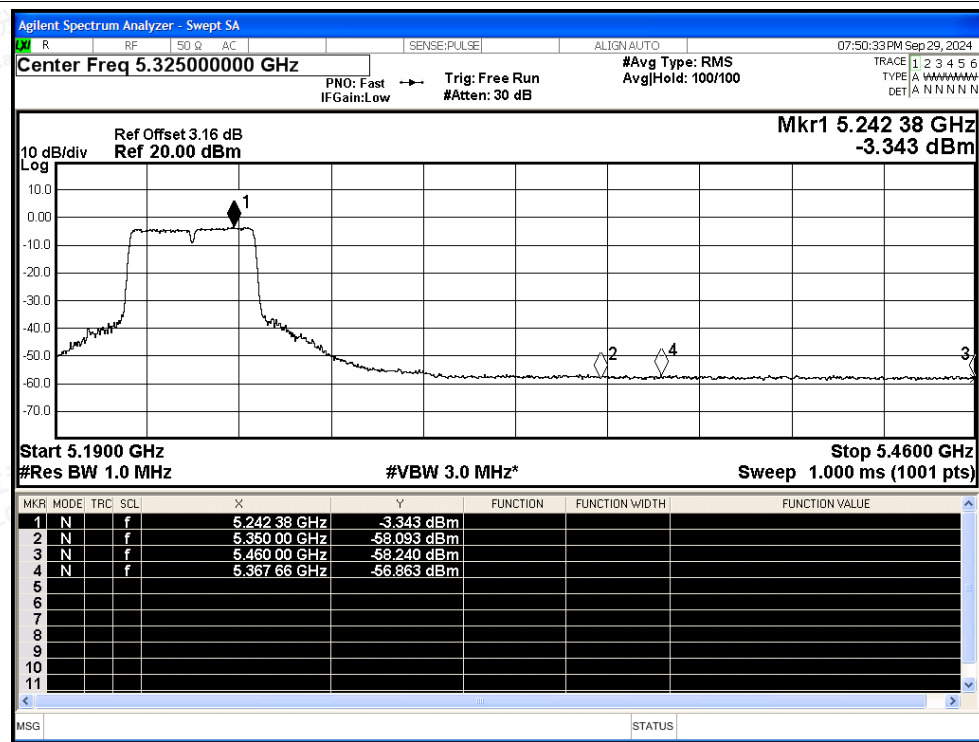
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## Restrict Band NVNT n40 5230MHz Ant1 Peak



## Restrict Band NVNT n40 5230MHz Ant1 Average



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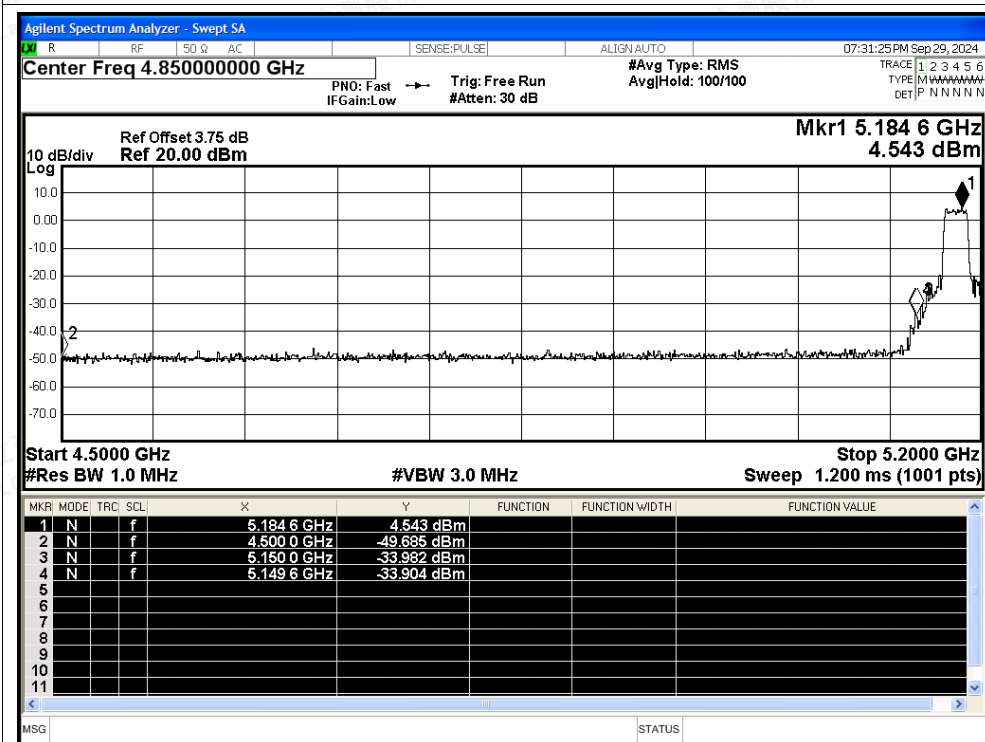
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

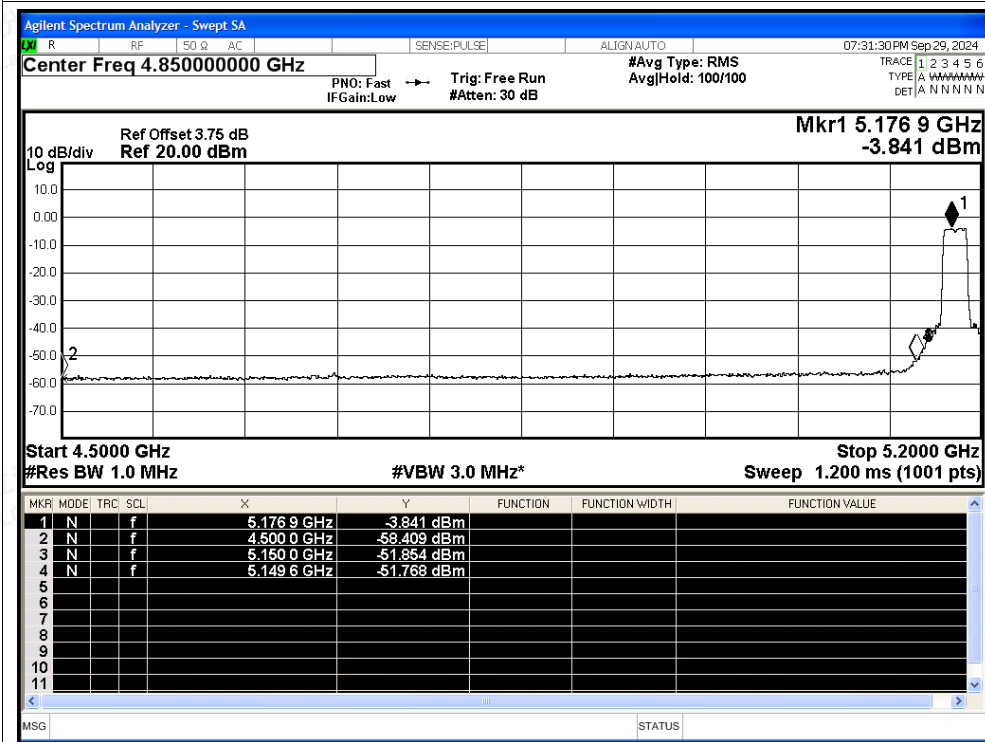
Scan code to check authenticity



## Restrict Band NVNT ac20 5180MHz Ant1 Peak



## Restrict Band NVNT ac20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

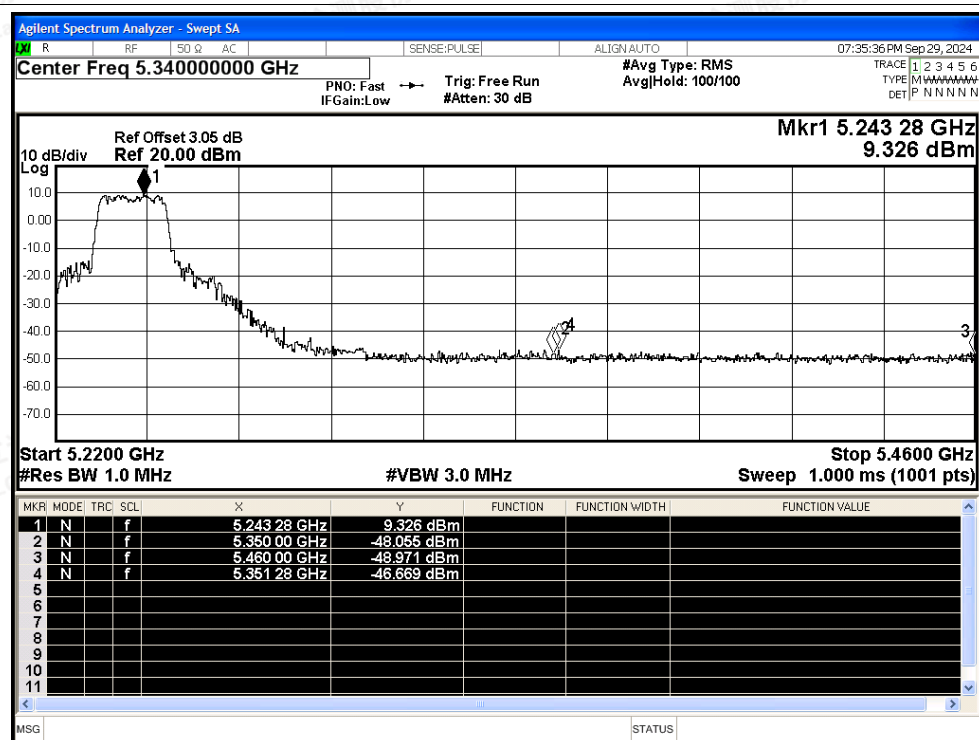
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

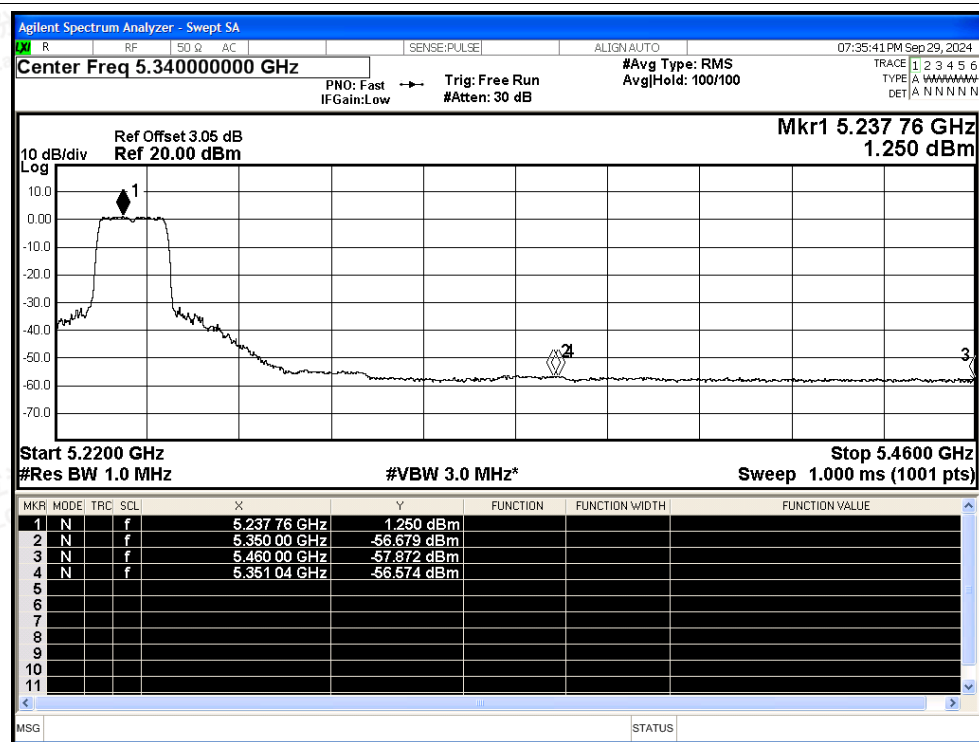
Scan code to check authenticity



## Restrict Band NVNT ac20 5240MHz Ant1 Peak



## Restrict Band NVNT ac20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

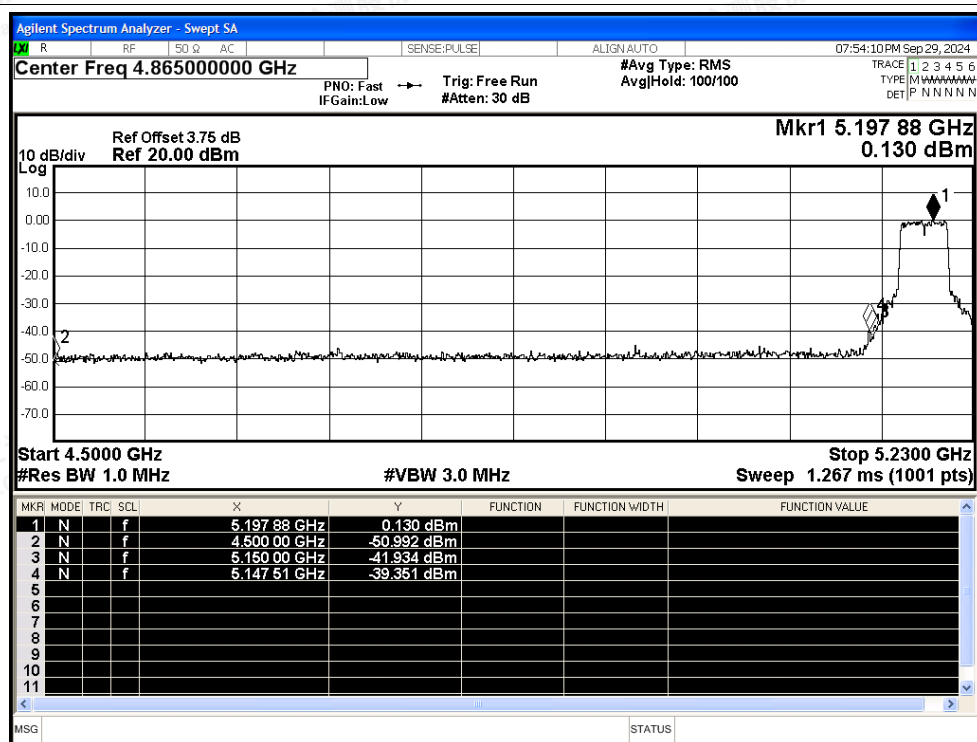
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

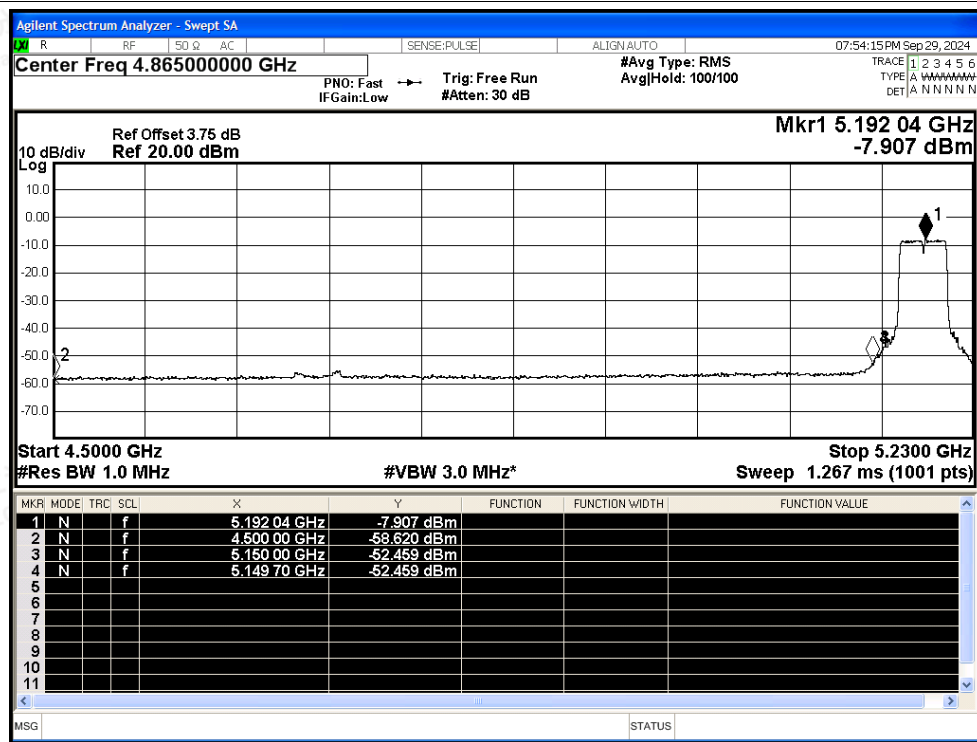
Scan code to check authenticity



## Restrict Band NVNT ac40 5190MHz Ant1 Peak



## Restrict Band NVNT ac40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

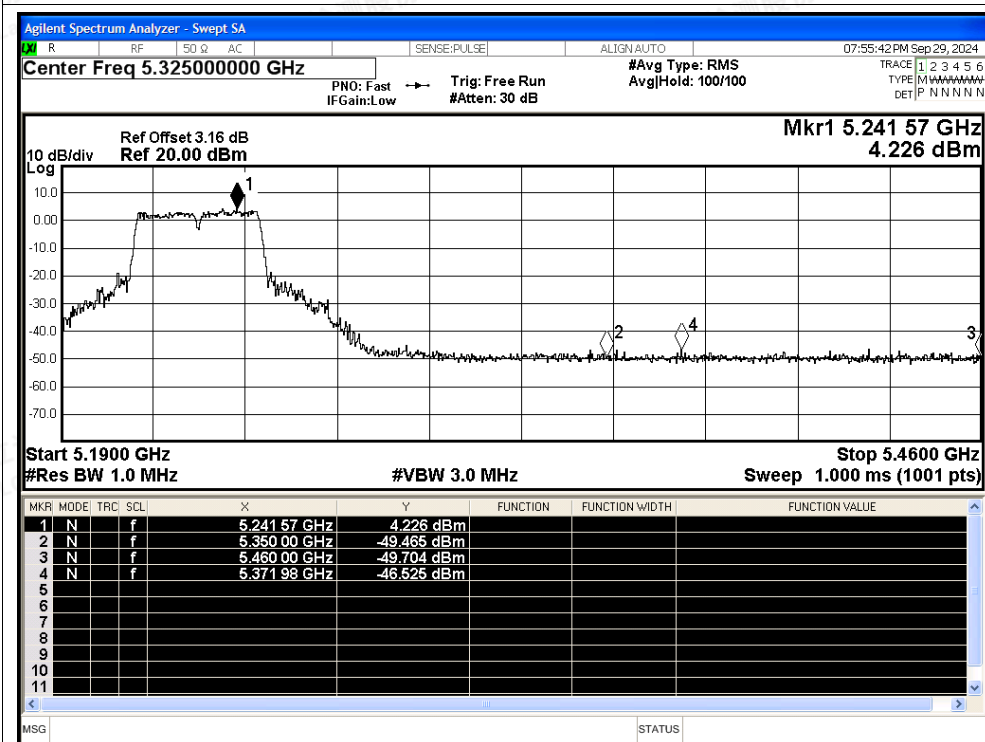
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

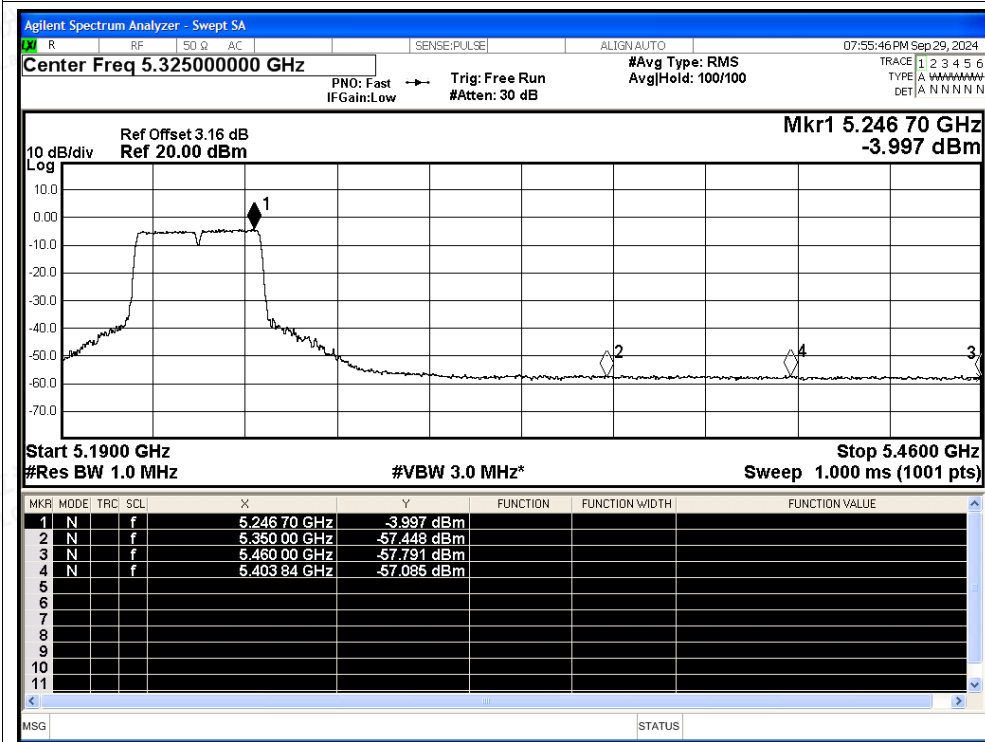
Scan code to check authenticity



## Restrict Band NVNT ac40 5230MHz Ant1 Peak



## Restrict Band NVNT ac40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

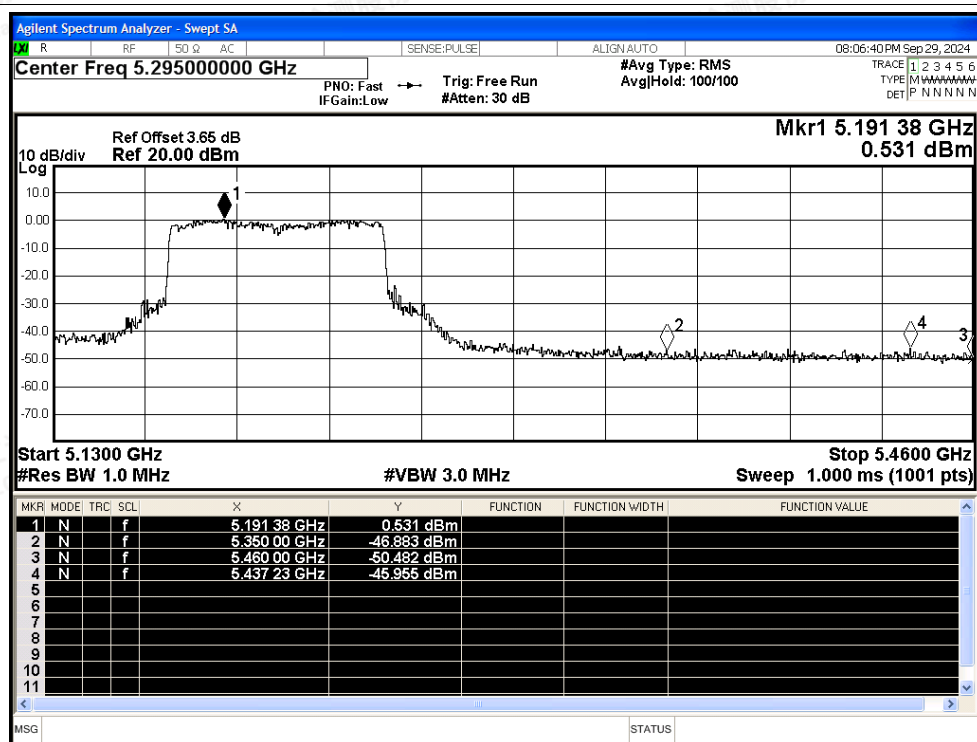
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

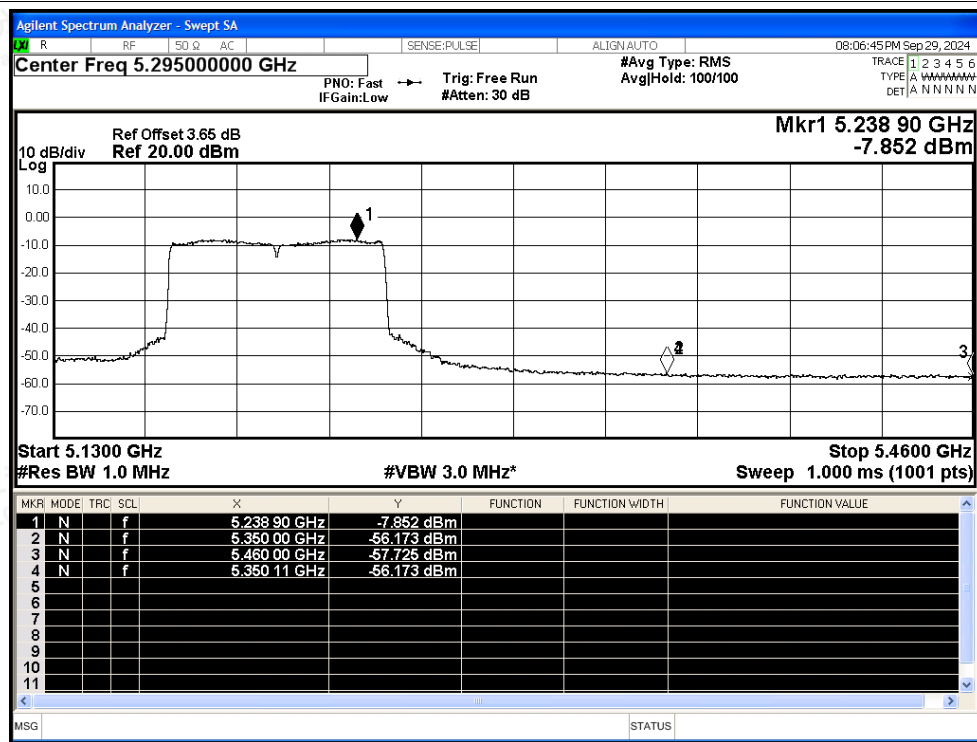
Scan code to check authenticity



## Restrict Band NVNT ac80 5210MHz Ant1 Peak



## Restrict Band NVNT ac80 5210MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

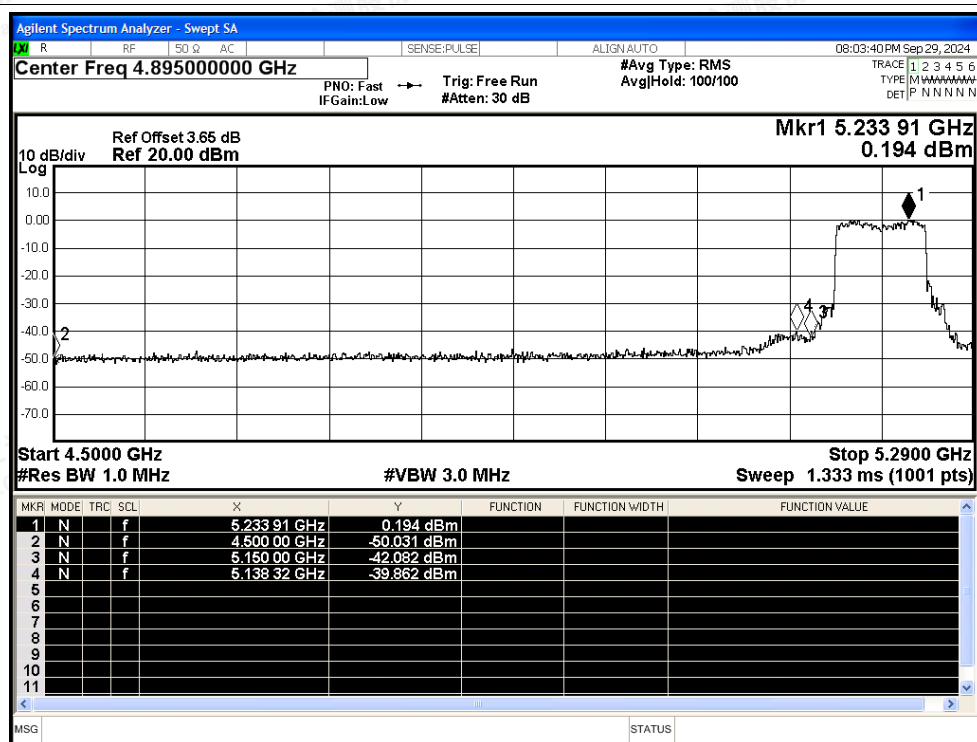
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

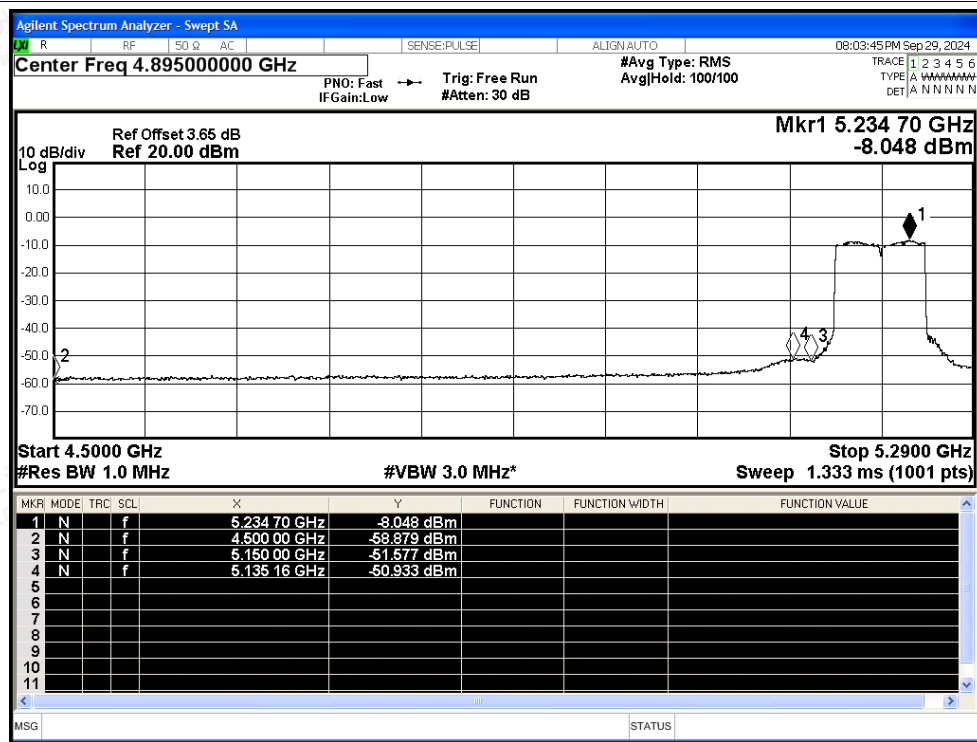
Scan code to check authenticity



## Restrict Band NVNT ac80 5210MHz Ant1 Peak



## Restrict Band NVNT ac80 5210MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

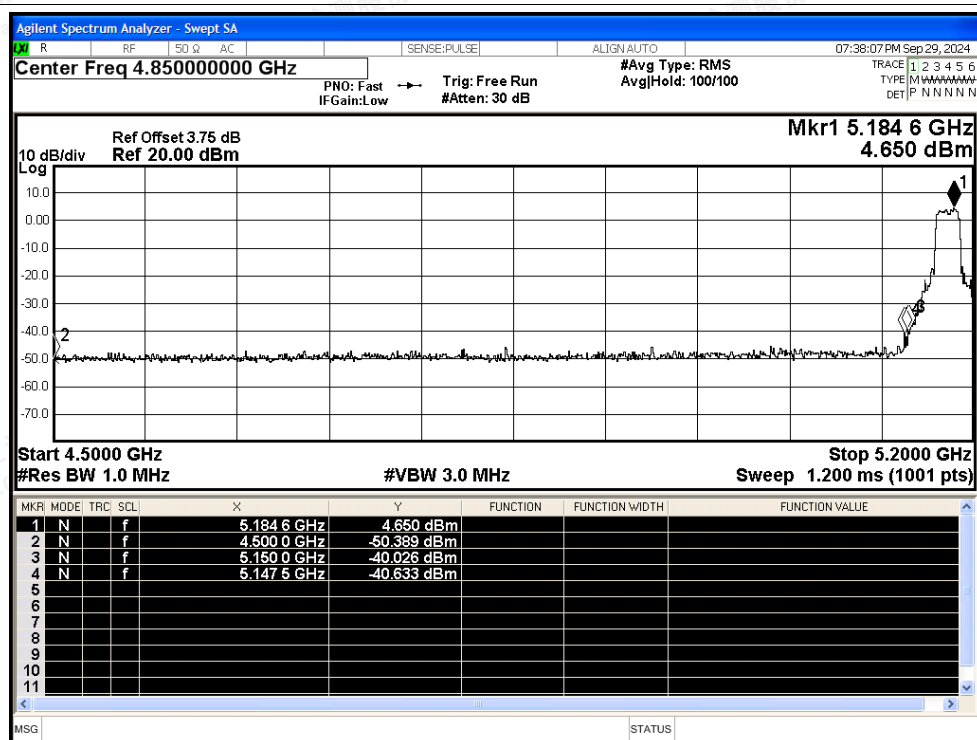
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

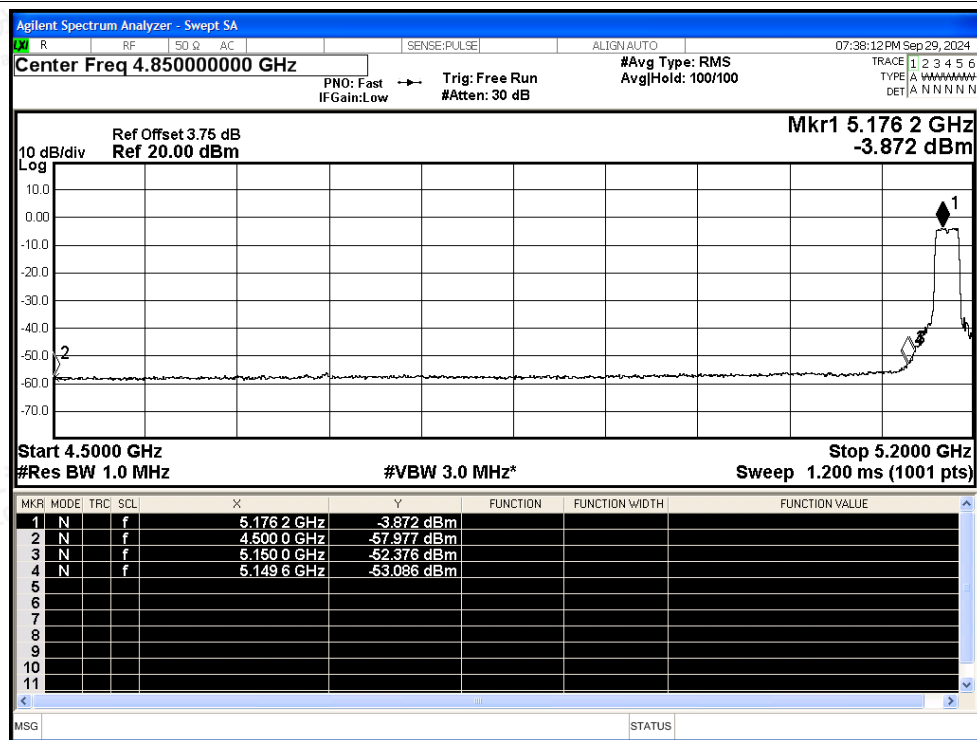
Scan code to check authenticity



## Restrict Band NVNT ax20 5180MHz Ant1 Peak



## Restrict Band NVNT ax20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

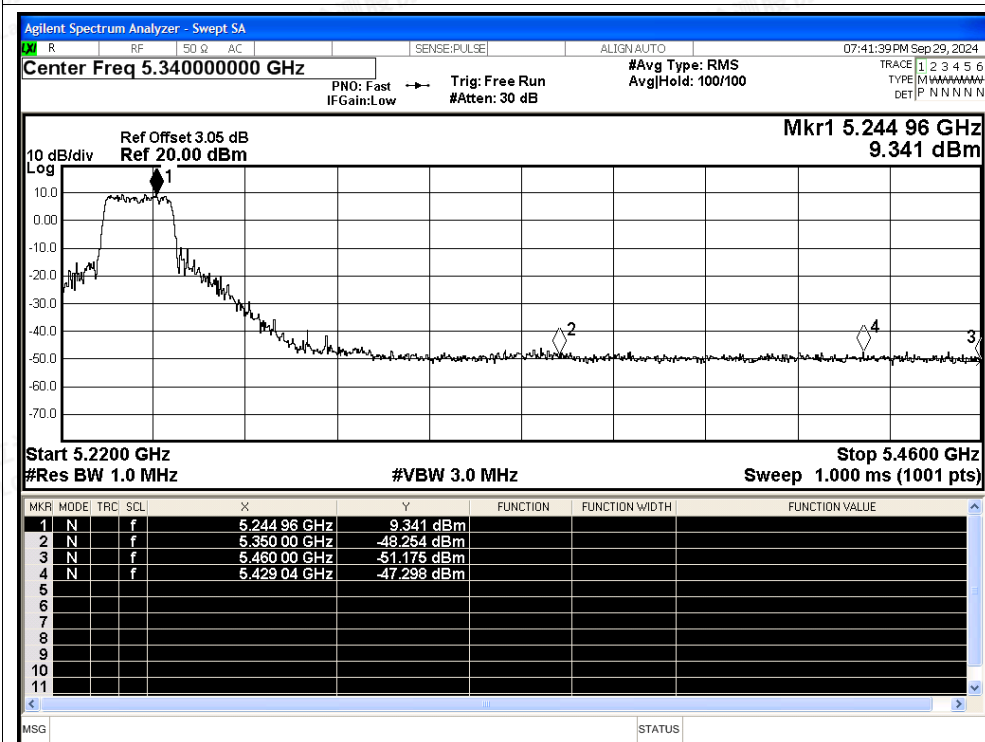
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

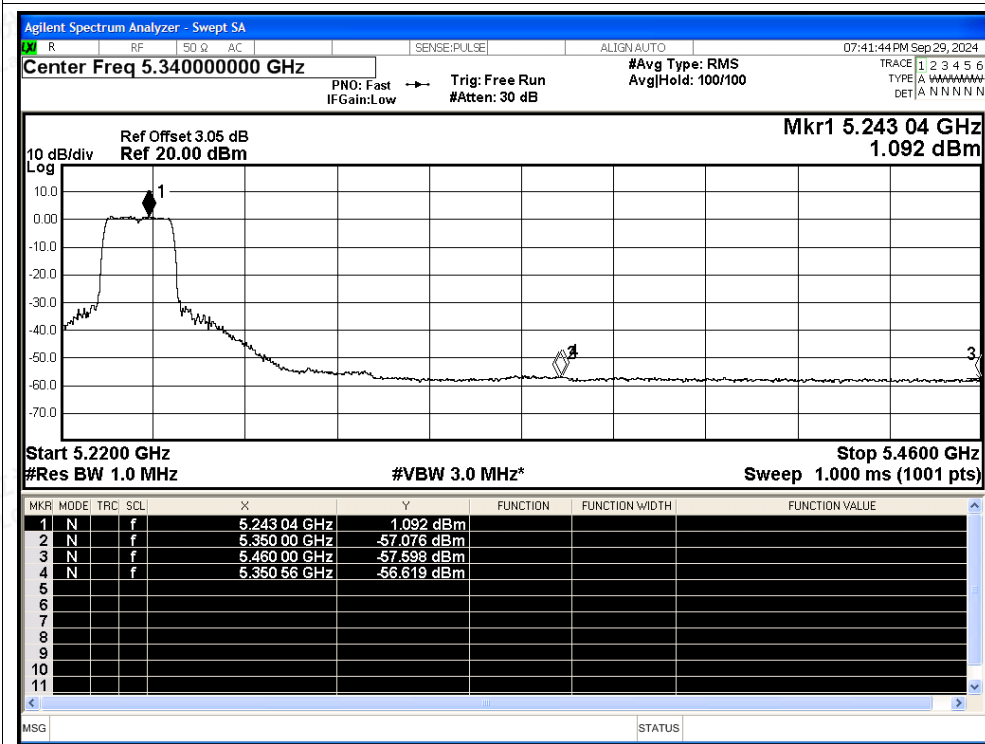
Scan code to check authenticity



## Restrict Band NVNT ax20 5240MHz Ant1 Peak



## Restrict Band NVNT ax20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

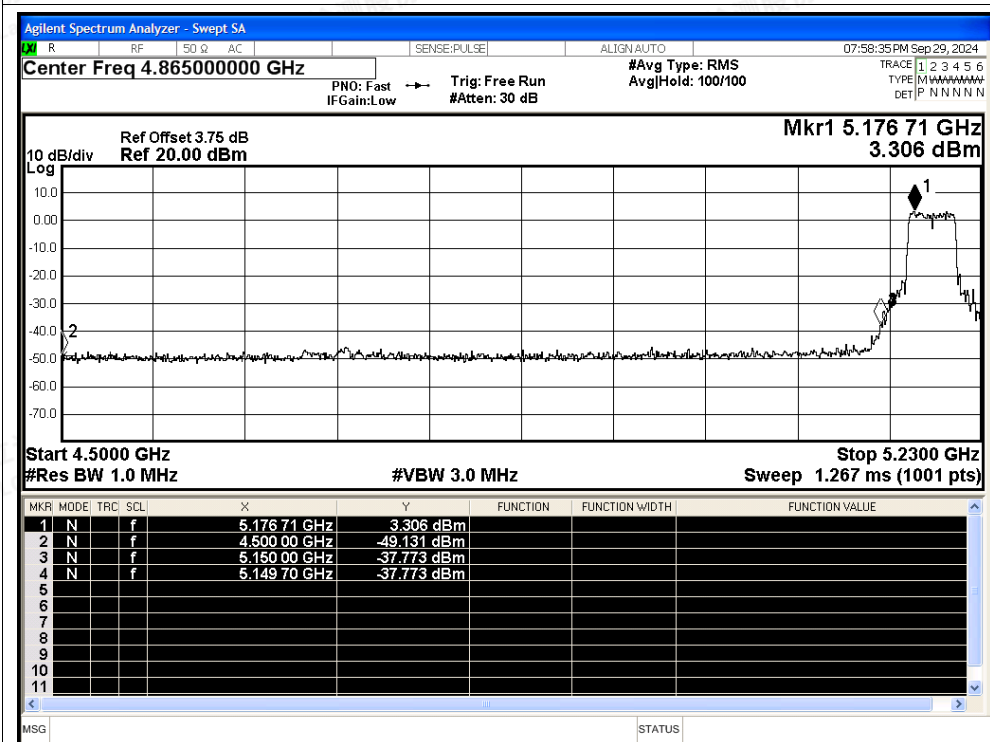
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

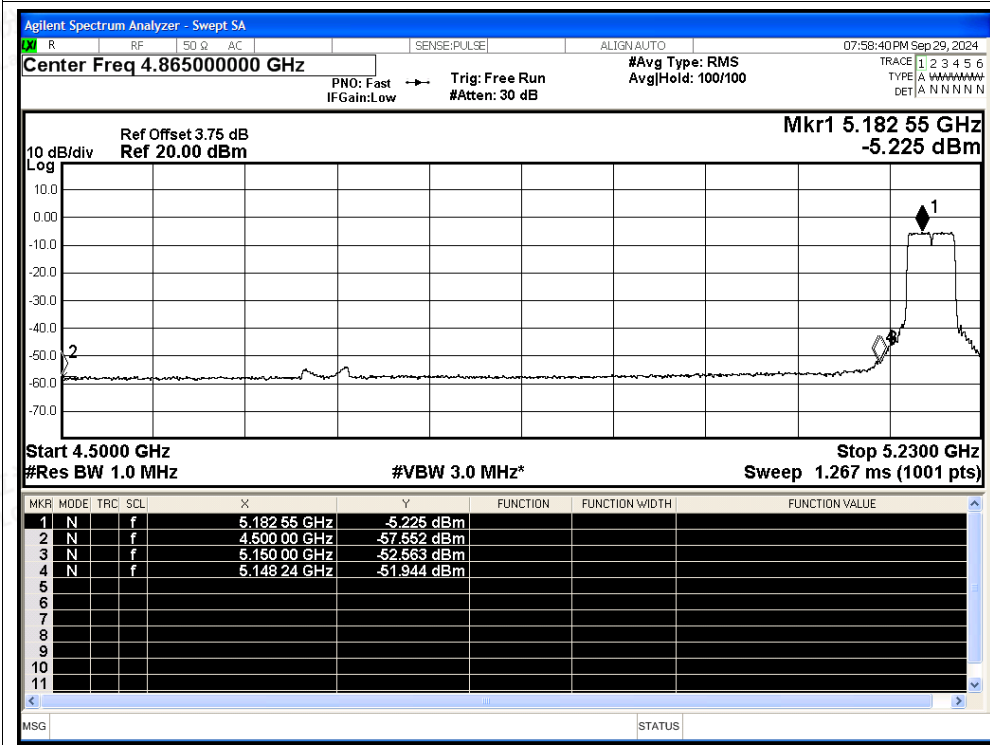
Scan code to check authenticity



## Restrict Band NVNT ax40 5190MHz Ant1 Peak



## Restrict Band NVNT ax40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

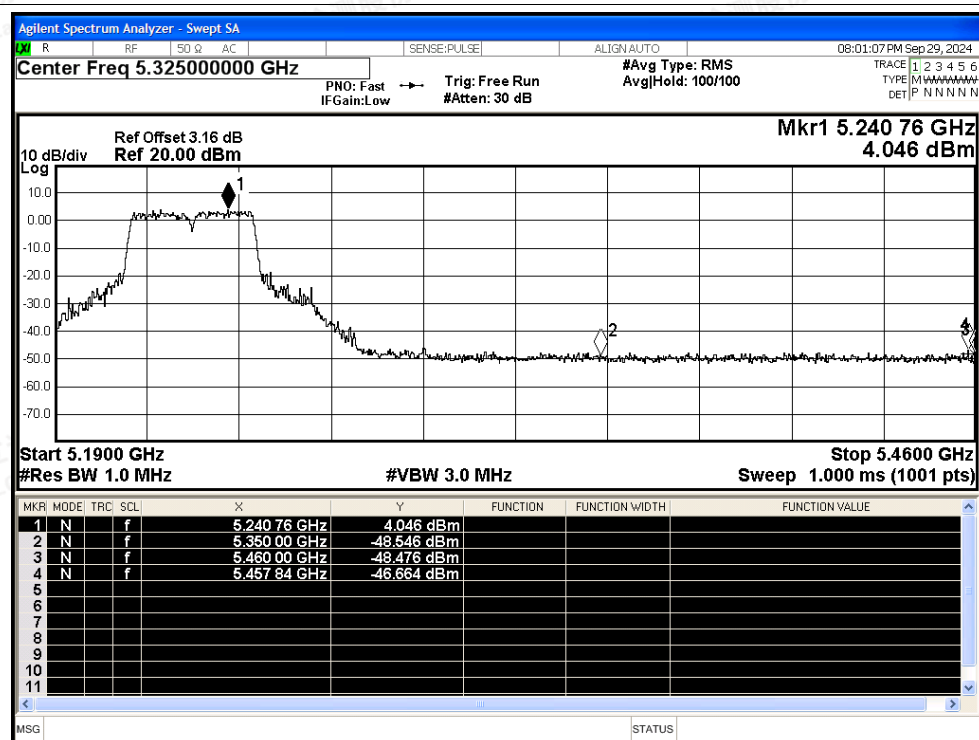
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

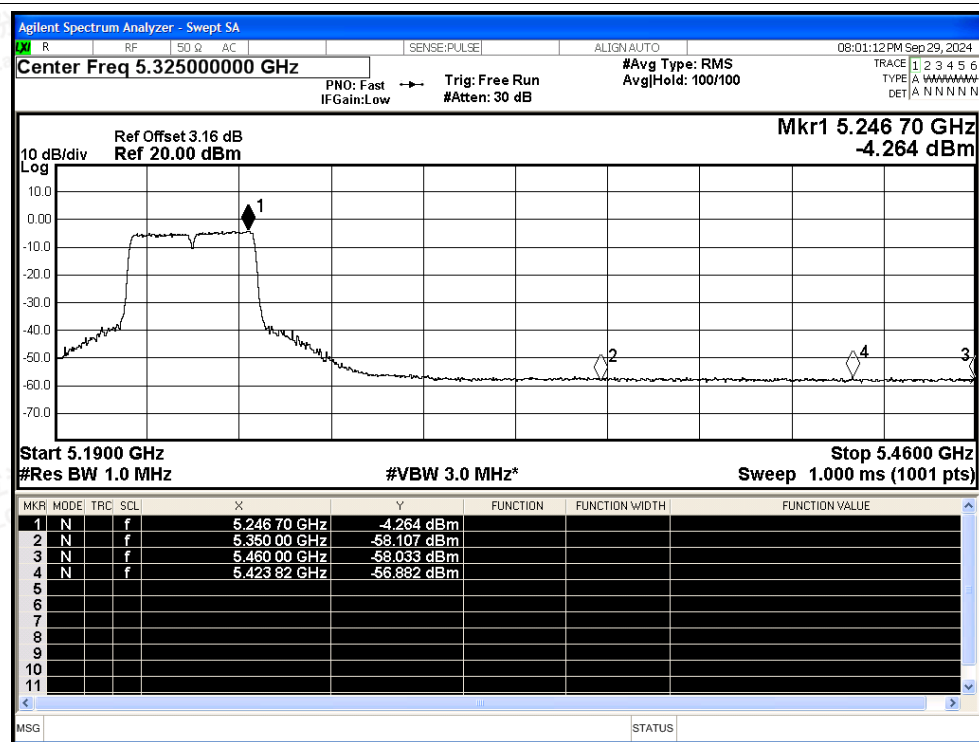
Scan code to check authenticity



## Restrict Band NVNT ax40 5230MHz Ant1 Peak



## Restrict Band NVNT ax40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

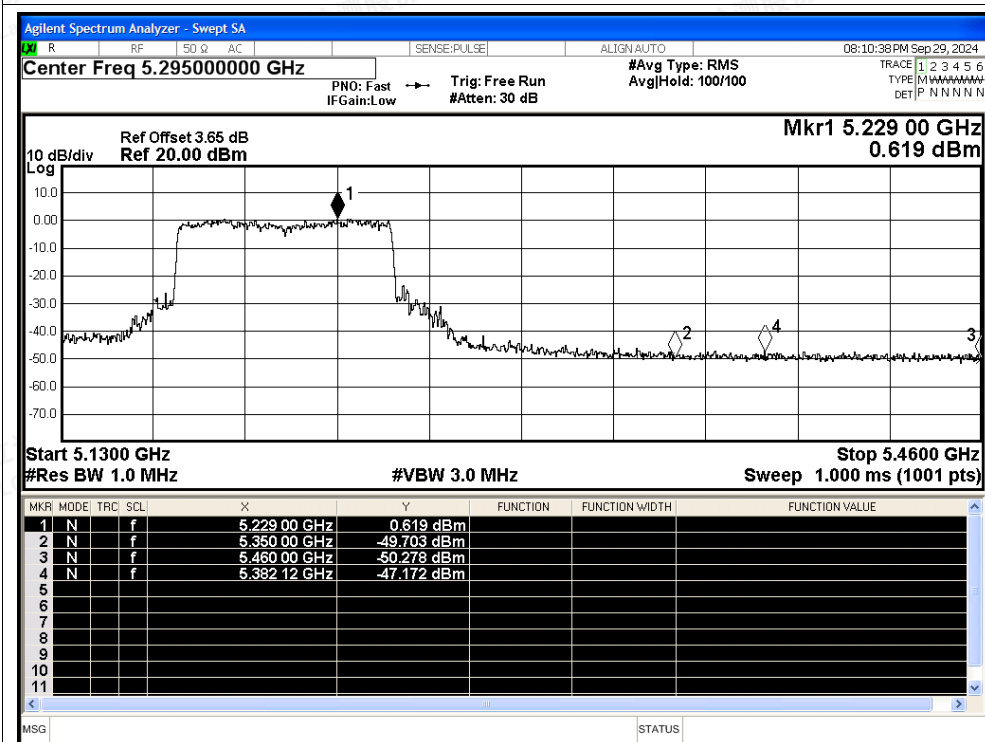
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

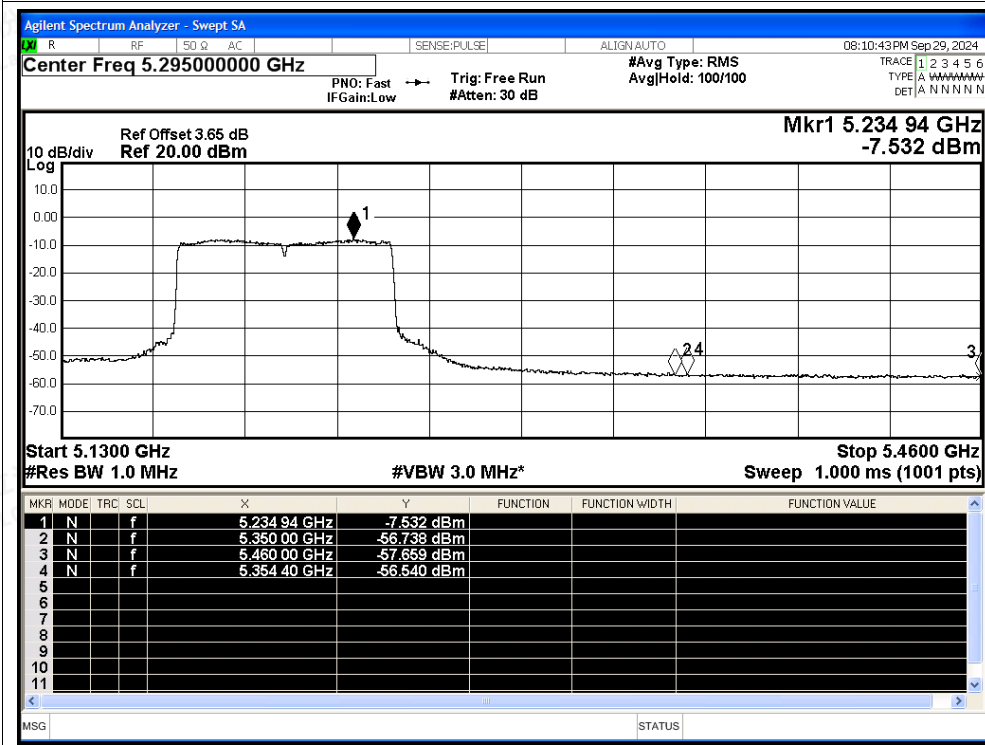
Scan code to check authenticity



## Restrict Band NVNT ax80 5210MHz Ant1 Peak



## Restrict Band NVNT ax80 5210MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

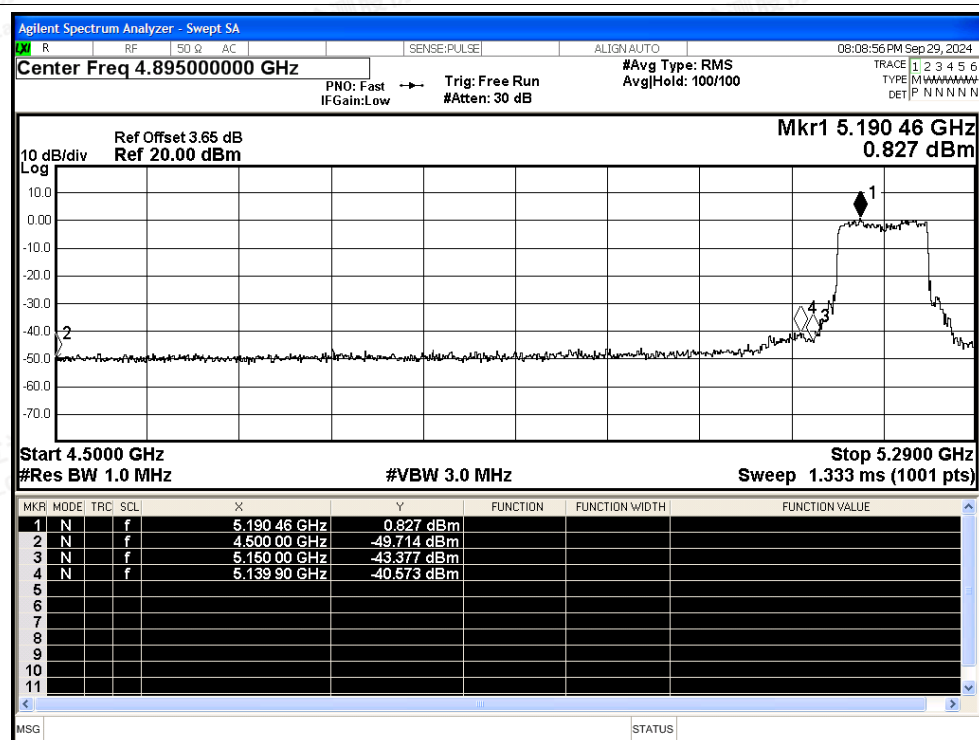
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

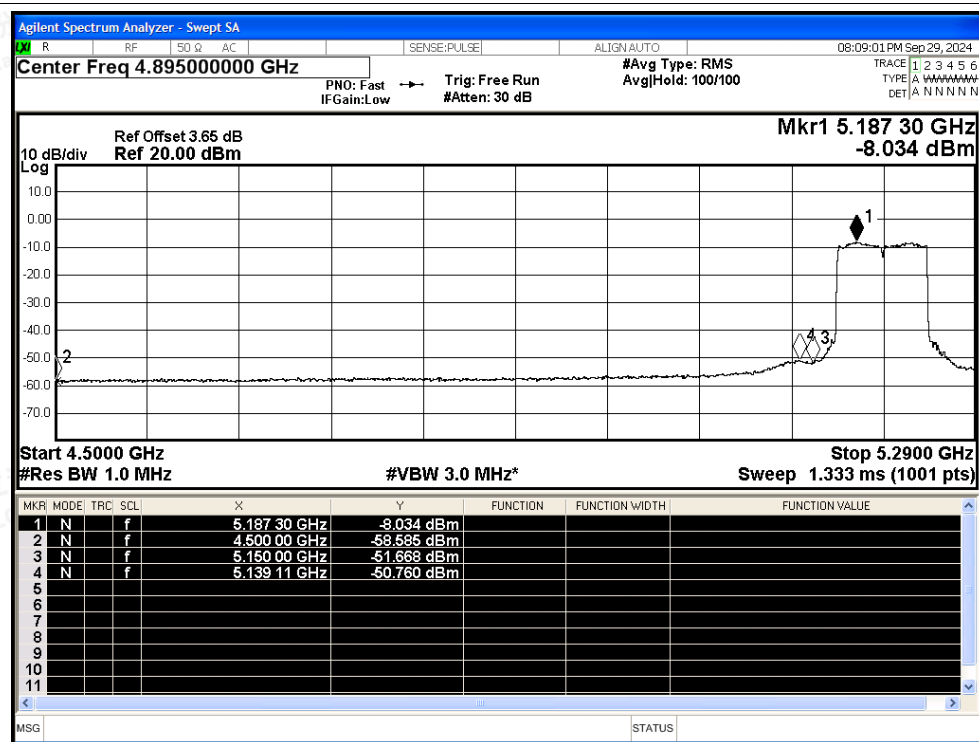
Scan code to check authenticity



## Restrict Band NVNT ax80 5210MHz Ant1 Peak



## Restrict Band NVNT ax80 5210MHz Ant1 Average



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## D.5 Frequency Stability

| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 5199.98                  | -20000               | -3.85           | 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    | 5199.98                  | -20000               | -3.85           | 25          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5239.98                  | -20000               | -3.82           | 25          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 5190                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 5230                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 5179.96                  | -40000               | -7.72           | 25          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 5200                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5239.96                  | -40000               | -7.63           | 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    | 5179.98                  | -20000               | -3.86           | 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    | 5189.96                  | -40000               | -7.71           | 25          | Pass    |
| NVNT      | ax40 | 5230            | Ant1    | 5230.04                  | 40000                | 7.65            | 25          | Pass    |
| NVNT      | ax80 | 5210            | Ant1    | 5210                     | 0                    | 0               | 25          | Pass    |



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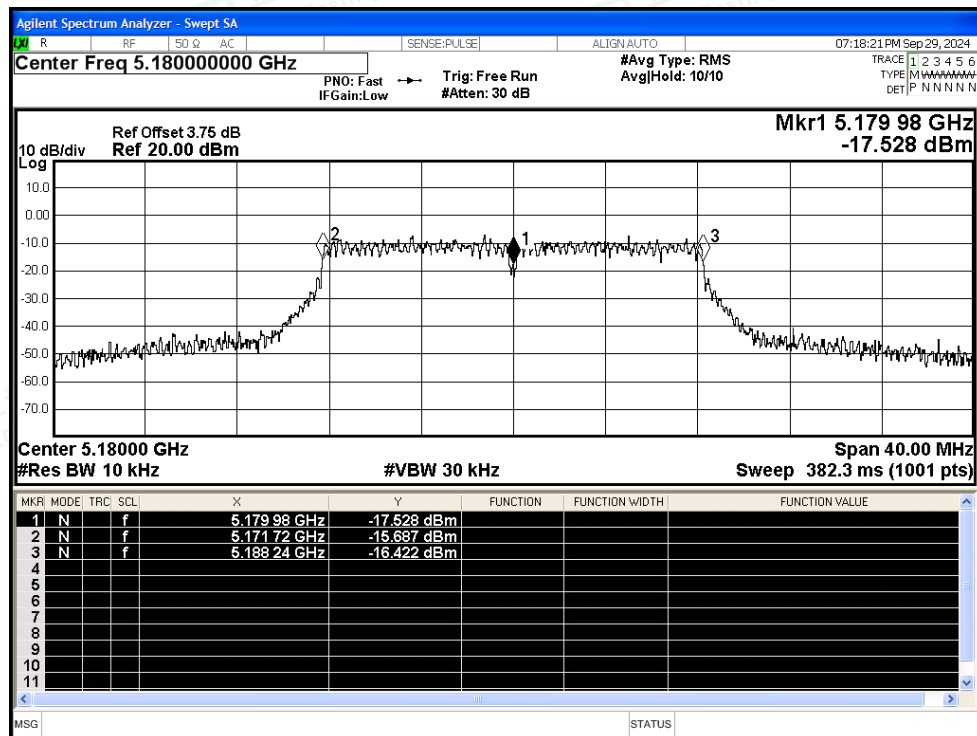
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

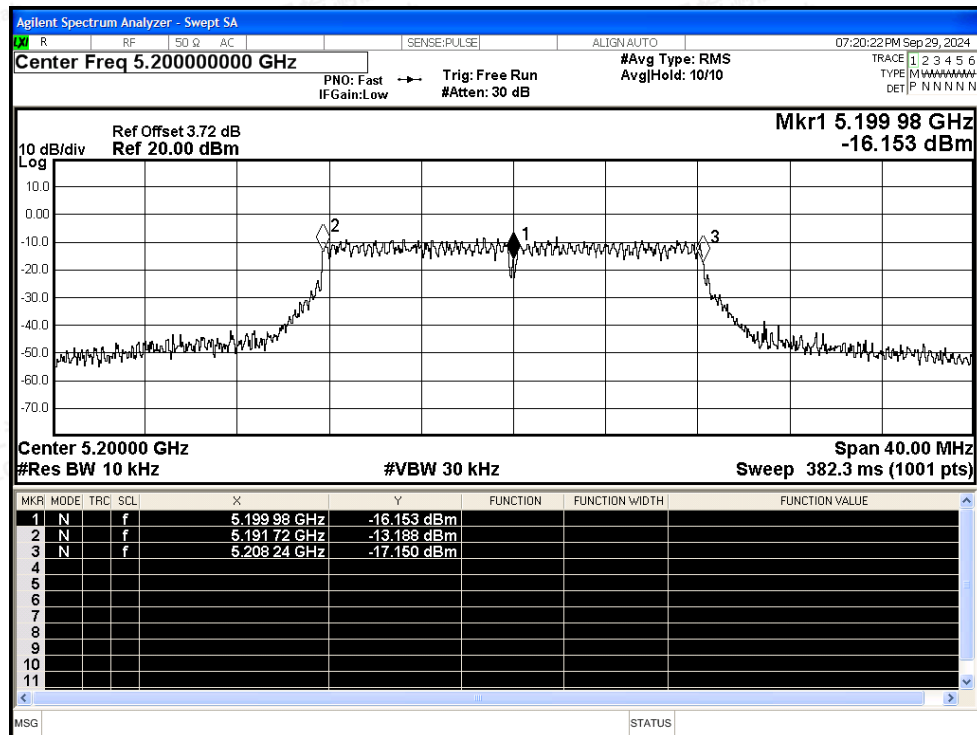


## Test Graphs

## Freq. Stability NVNT a 5180MHz Ant1



## Freq. Stability NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

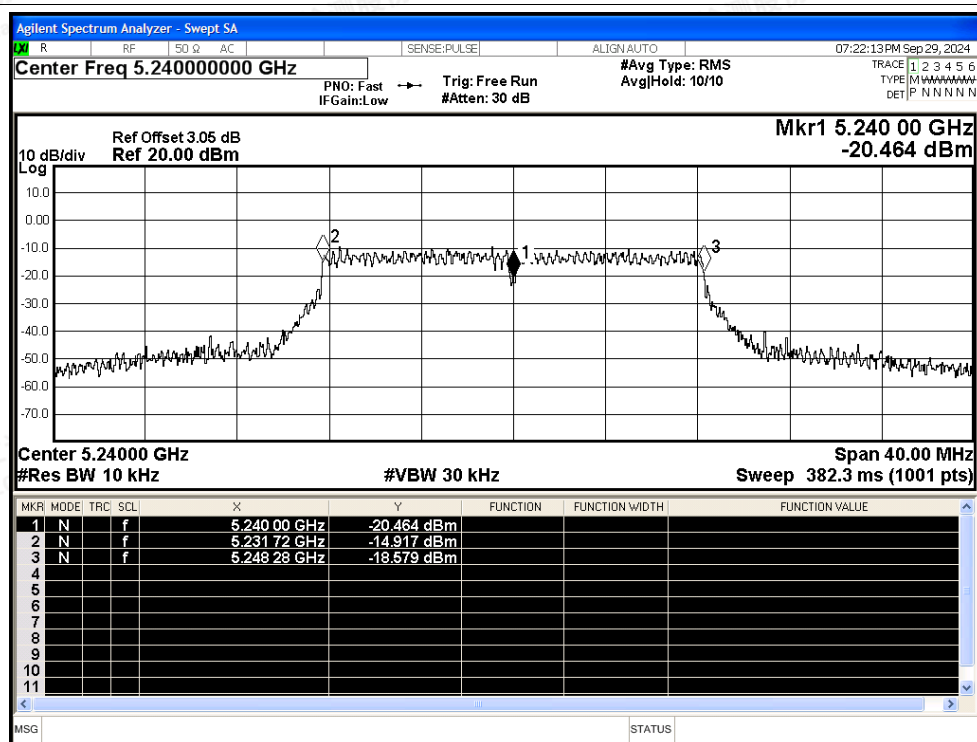
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

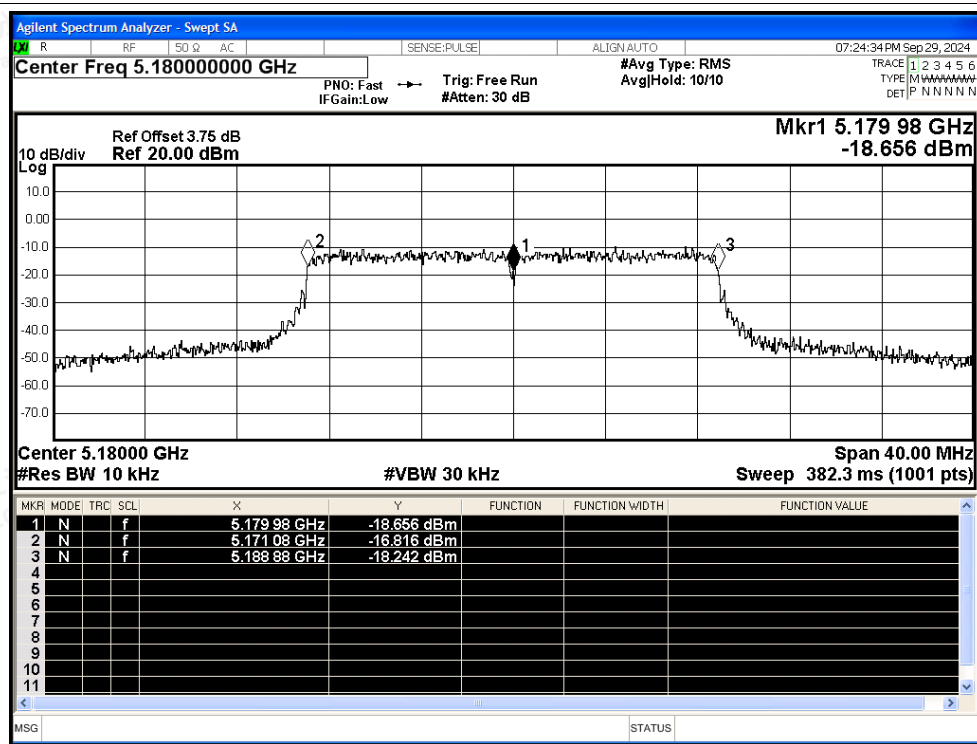
Scan code to check authenticity



## Freq. Stability NVNT a 5240MHz Ant1



## Freq. Stability NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

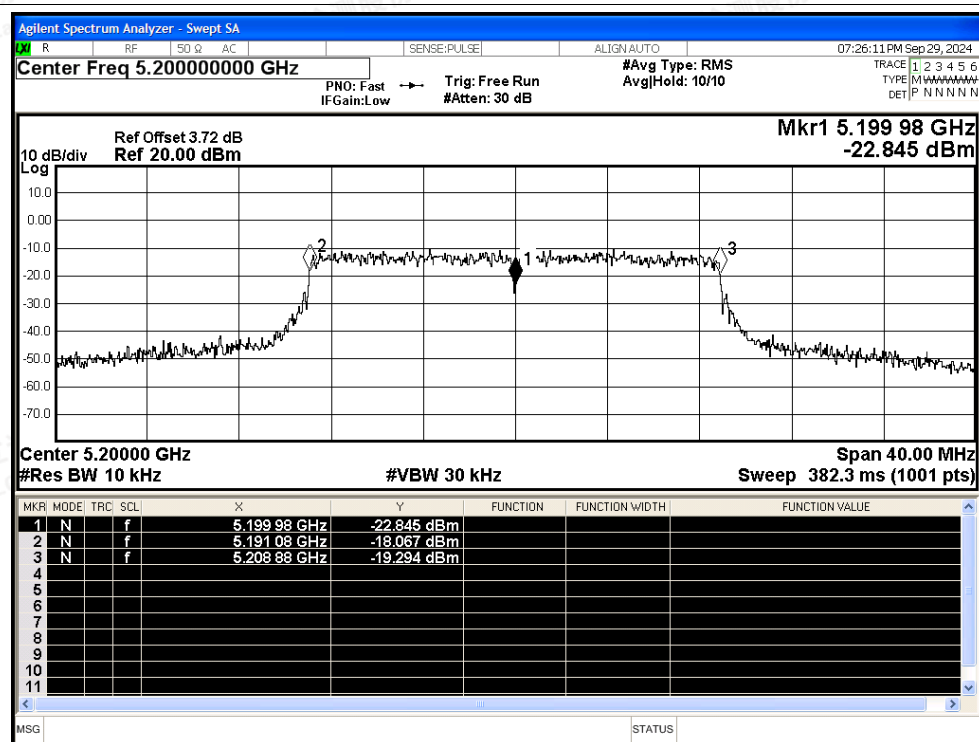
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

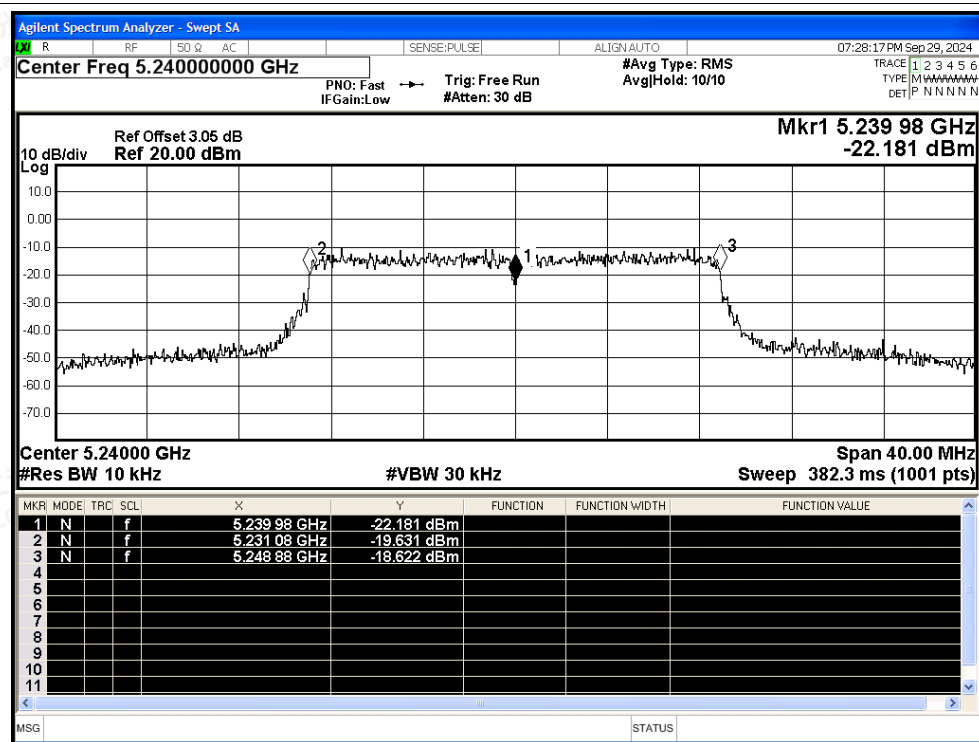
Scan code to check authenticity



## Freq. Stability NVNT n20 5200MHz Ant1



## Freq. Stability NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

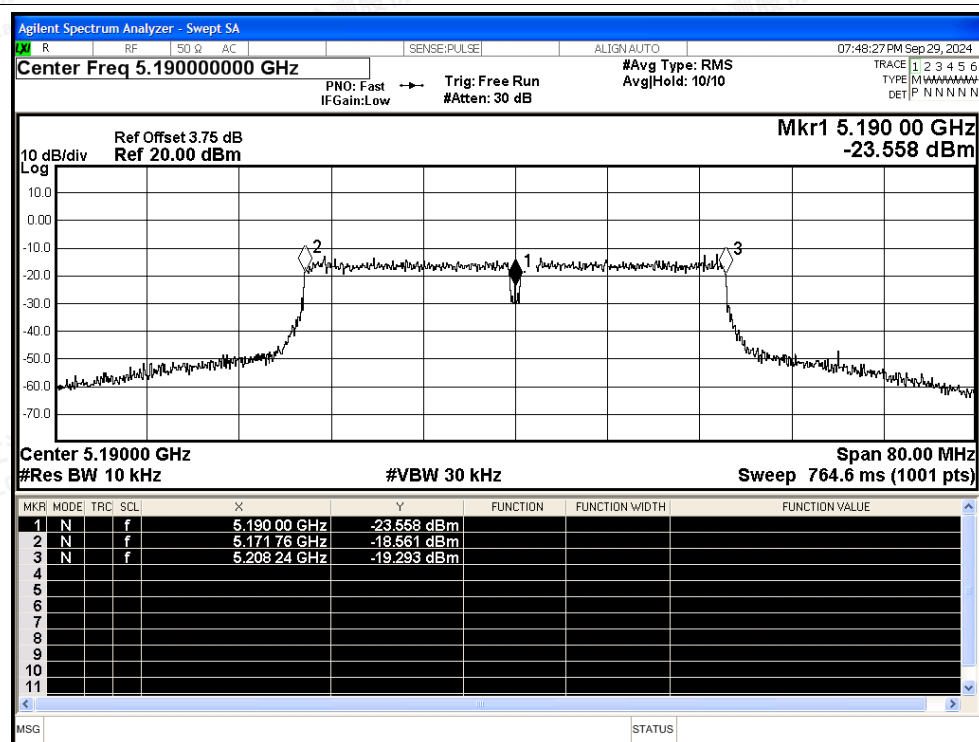
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

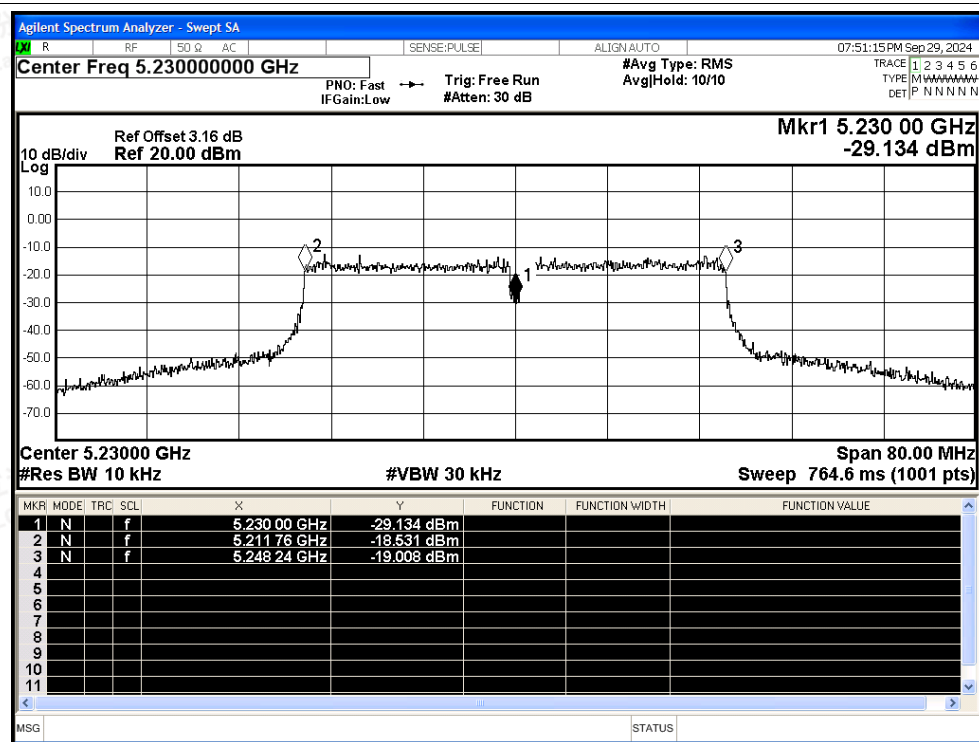
Scan code to check authenticity



## Freq. Stability NVNT n40 5190MHz Ant1



## Freq. Stability NVNT n40 5230MHz Ant1

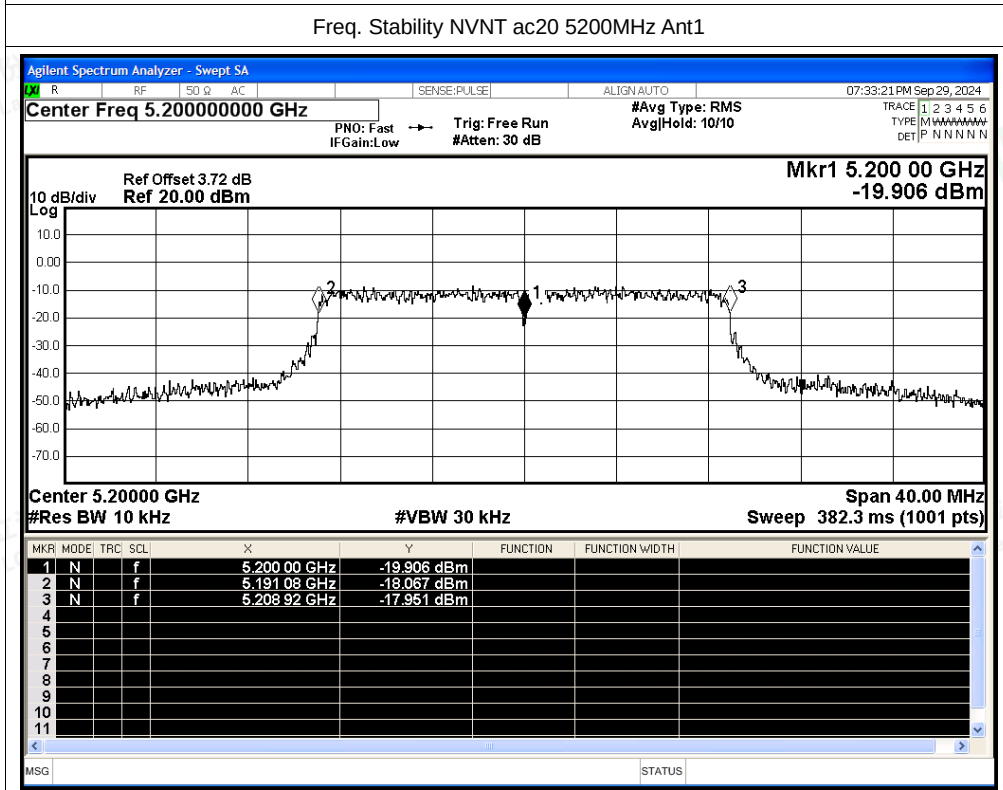
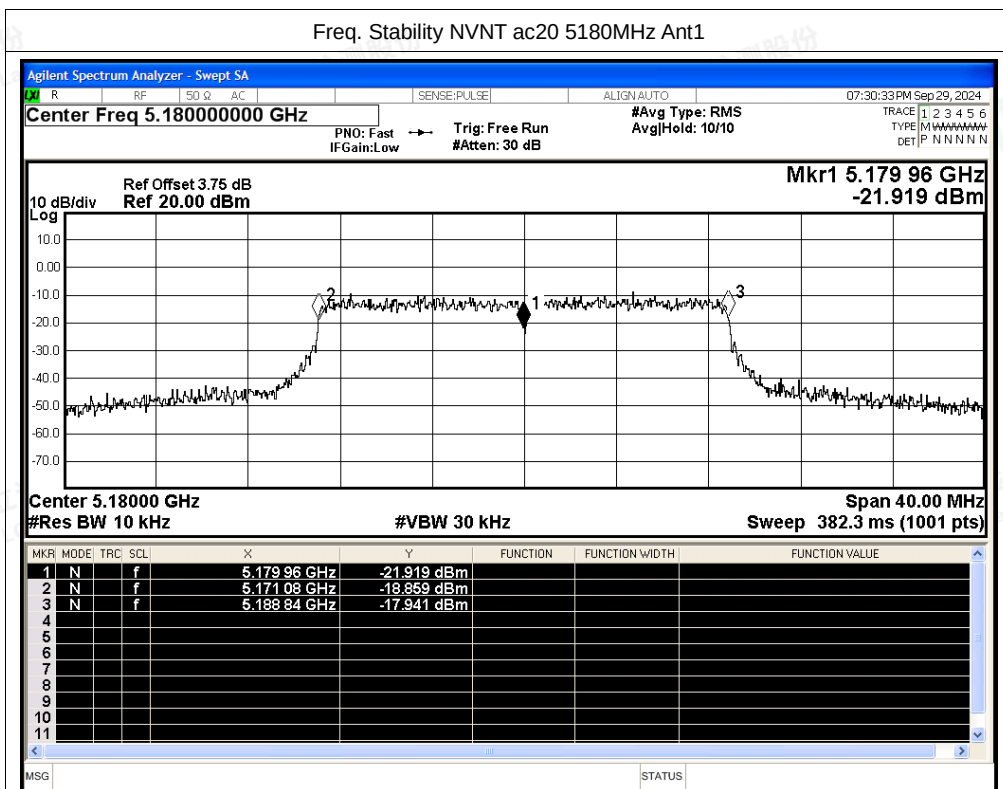


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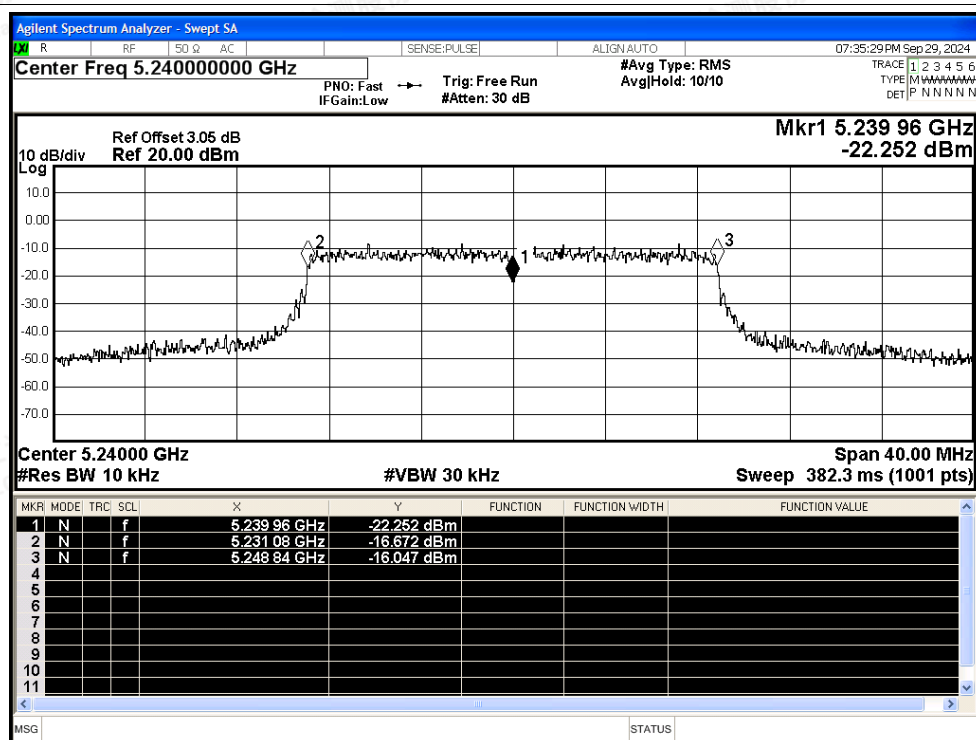
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

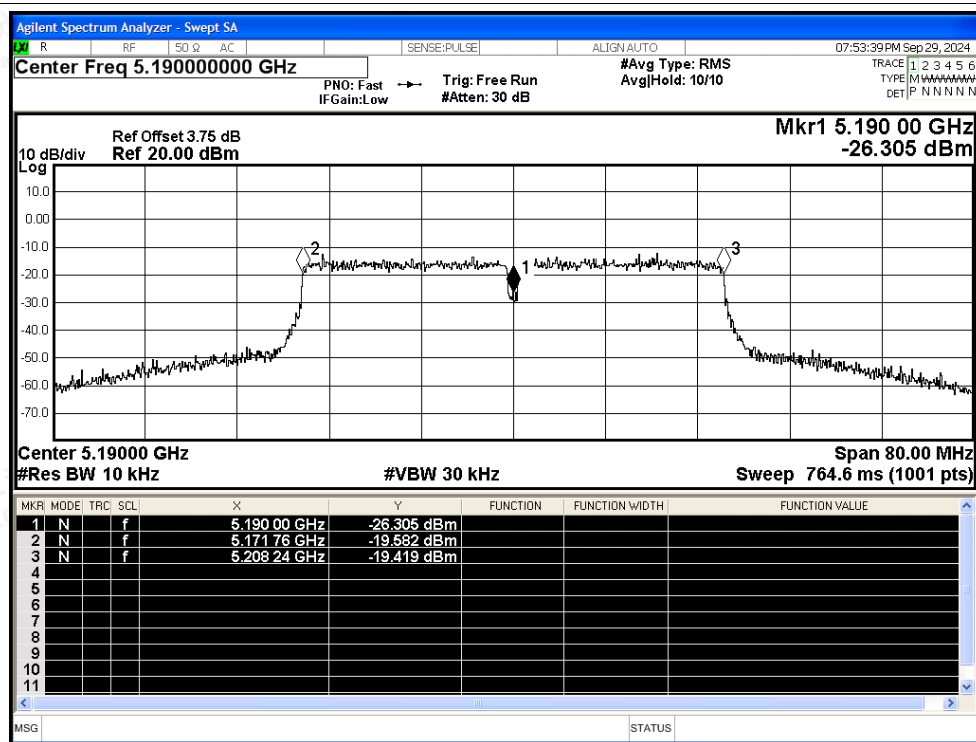
Scan code to check authenticity



## Freq. Stability NVNT ac20 5240MHz Ant1



## Freq. Stability NVNT ac40 5190MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

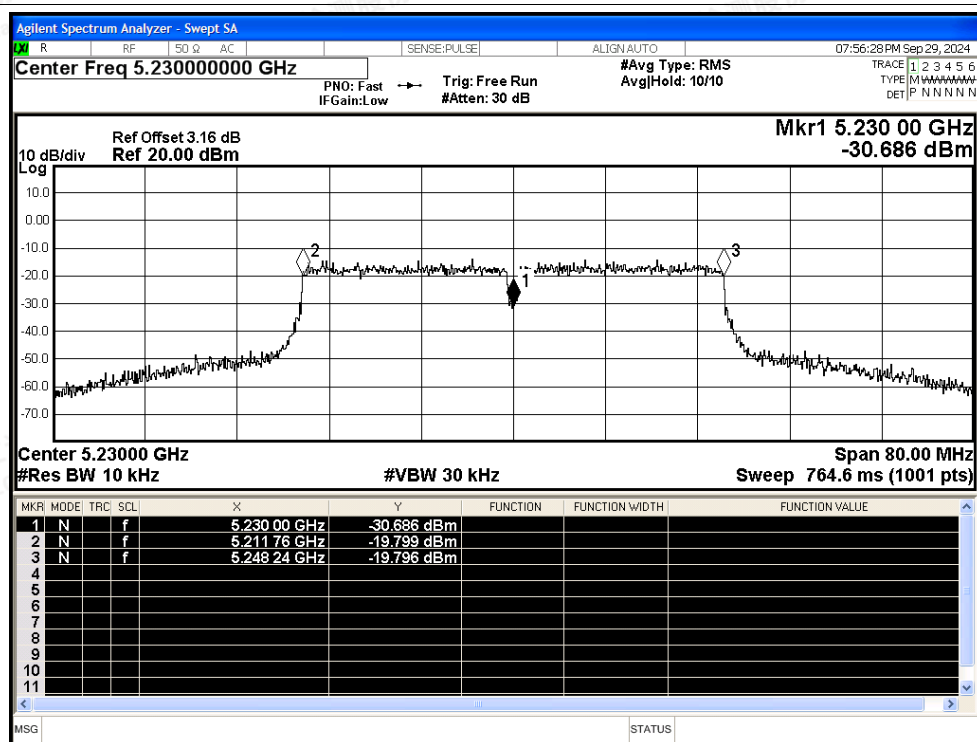
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

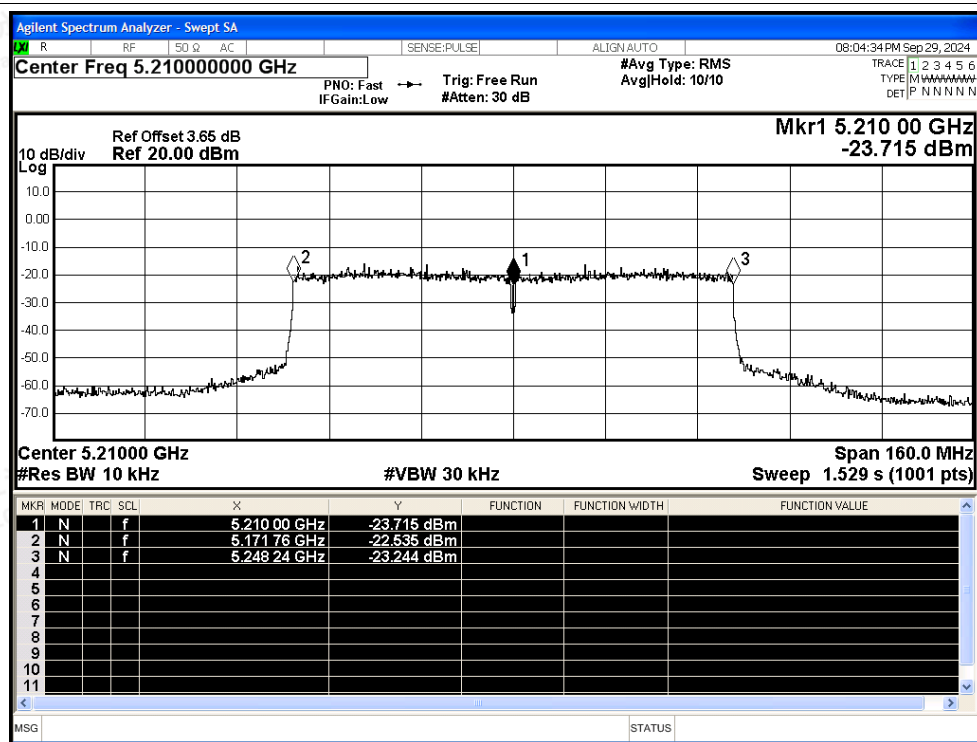
Scan code to check authenticity



## Freq. Stability NVNT ac40 5230MHz Ant1



## Freq. Stability NVNT ac80 5210MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

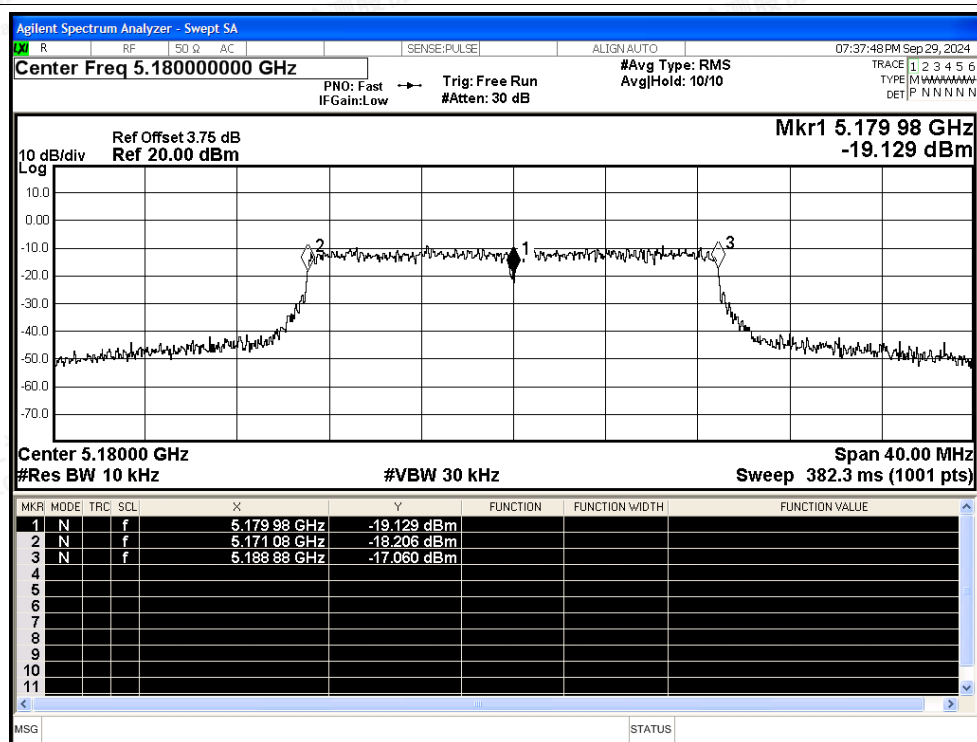
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

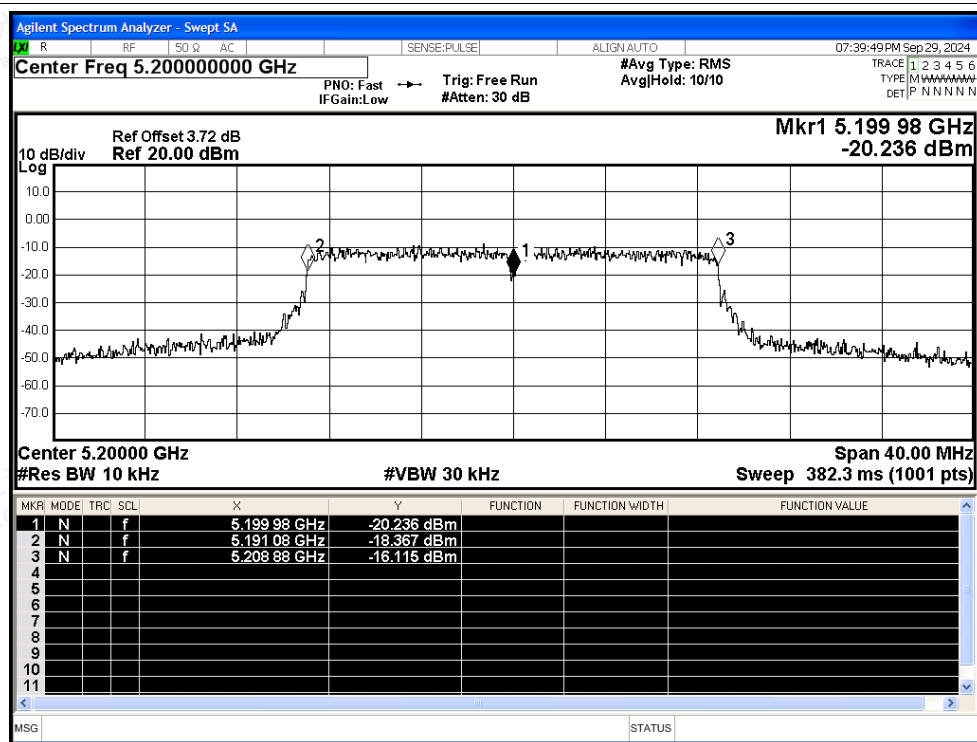
Scan code to check authenticity



## Freq. Stability NVNT ax20 5180MHz Ant1



## Freq. Stability NVNT ax20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

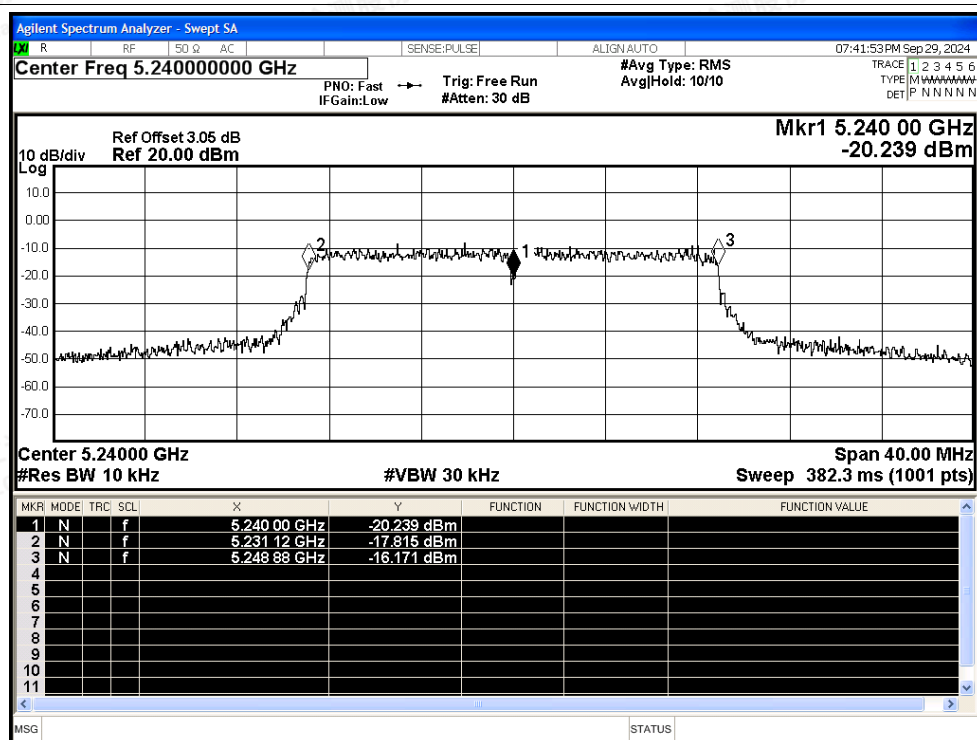
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

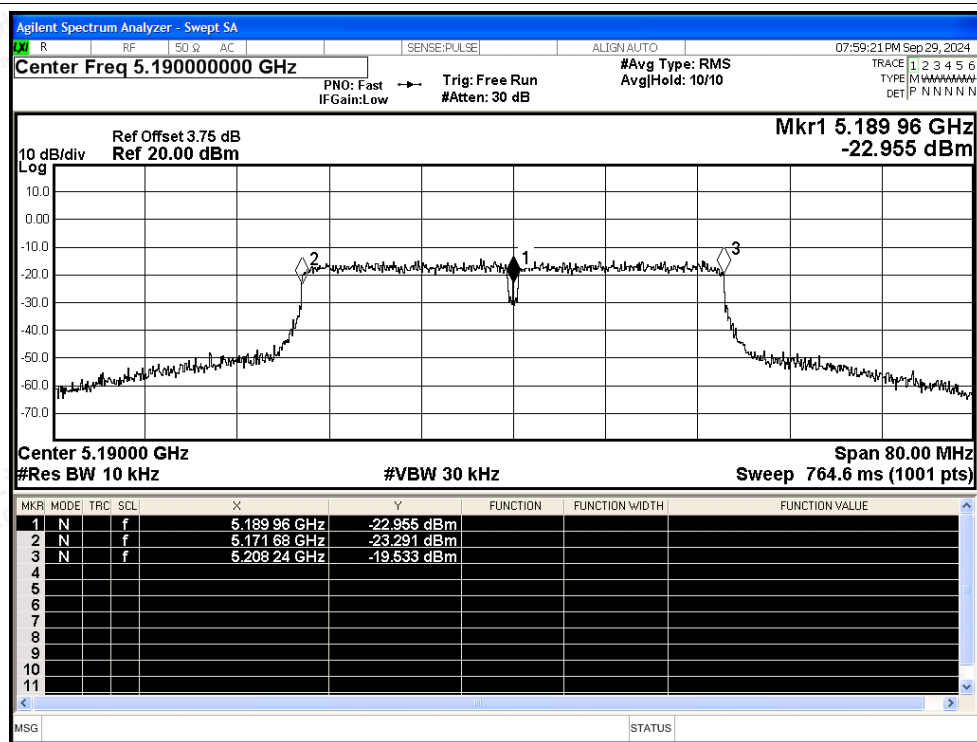
Scan code to check authenticity



## Freq. Stability NVNT ax20 5240MHz Ant1



## Freq. Stability NVNT ax40 5190MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

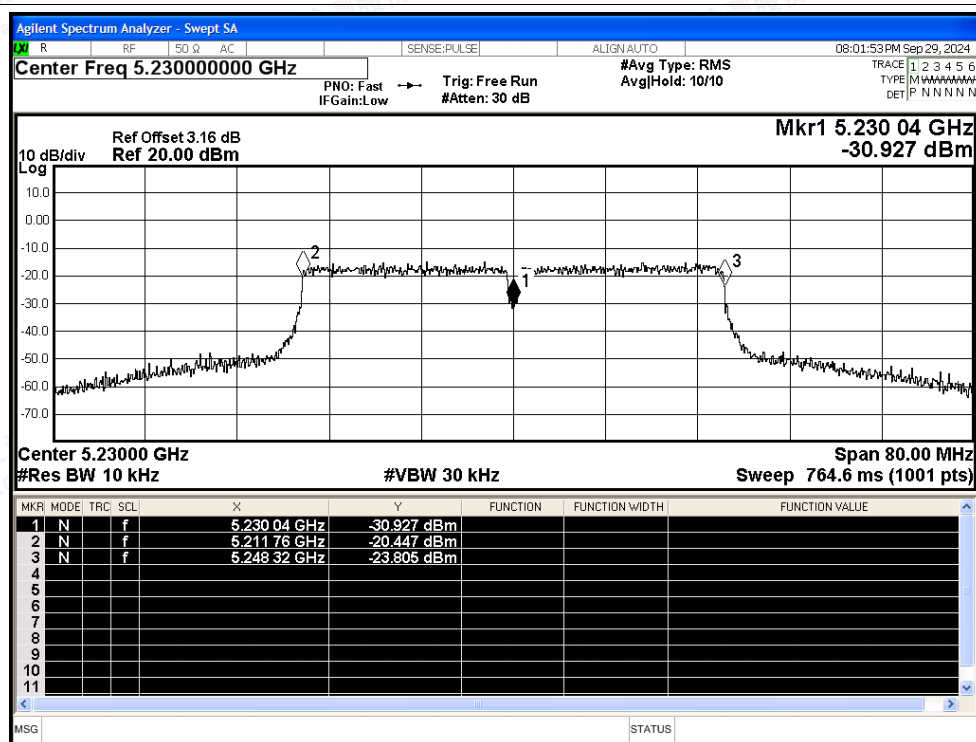
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

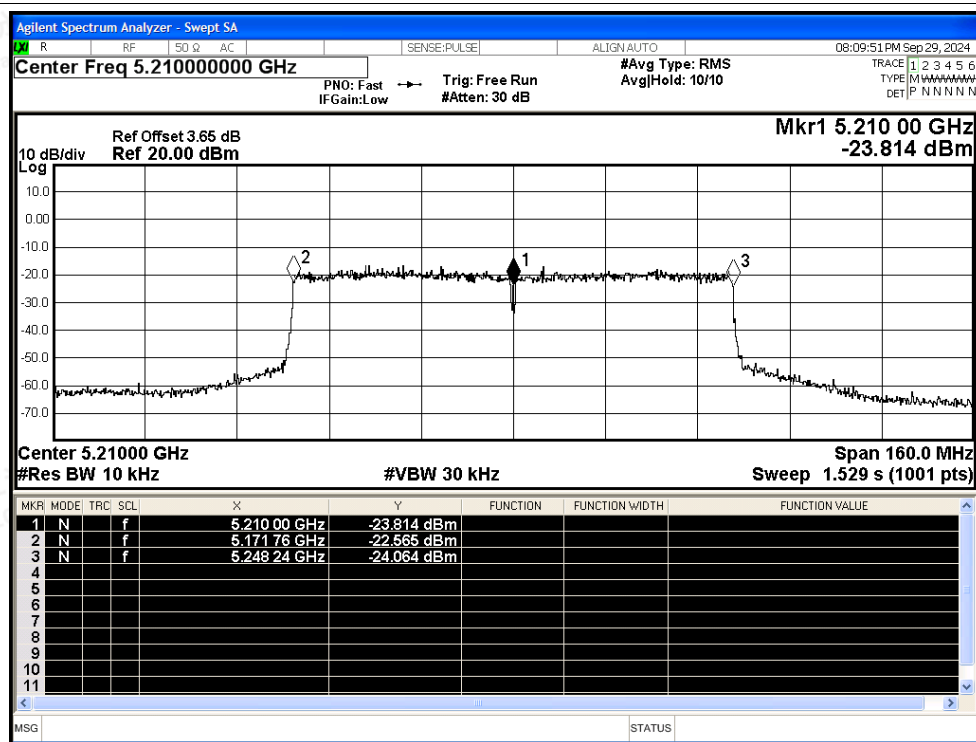
Scan code to check authenticity



## Freq. Stability NVNT ax40 5230MHz Ant1



## Freq. Stability NVNT ax80 5210MHz Ant1



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## D.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5180            | Ant1    | 94.65          | 0.24                   | 0.91      |
| NVNT      | a    | 5200            | Ant1    | 94.56          | 0.24                   | 0.91      |
| NVNT      | a    | 5240            | Ant1    | 94.56          | 0.24                   | 0.91      |
| NVNT      | n20  | 5180            | Ant1    | 97.29          | 0.12                   | 0.44      |
| NVNT      | n20  | 5200            | Ant1    | 97.29          | 0.12                   | 0.44      |
| NVNT      | n20  | 5240            | Ant1    | 97.29          | 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    | 97.34          | 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    | 97.19          | 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    | 97.34          | 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    | 97.24          | 0.12                   | 0.46      |
| NVNT      | ax40 | 5230            | Ant1    | 97.19          | 0.12                   | 0.46      |
| NVNT      | ax80 | 5210            | Ant1    | 94.32          | 0.25                   | 0.97      |



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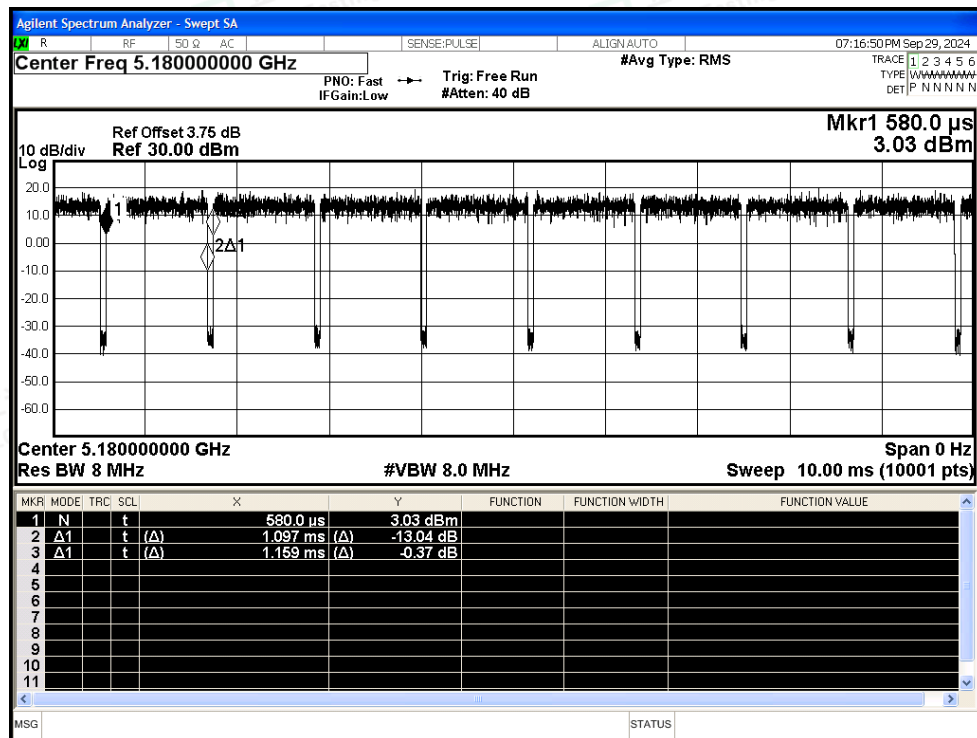
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

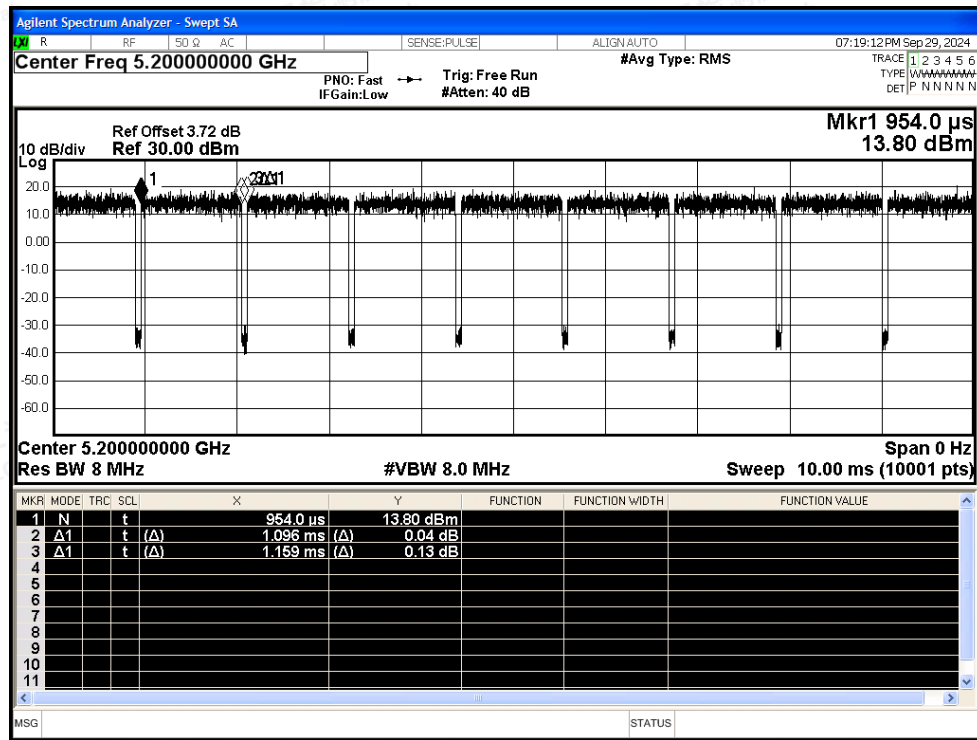


## Test Graphs

## Duty Cycle NVNT a 5180MHz Ant1



## Duty Cycle NVNT a 5200MHz Ant1



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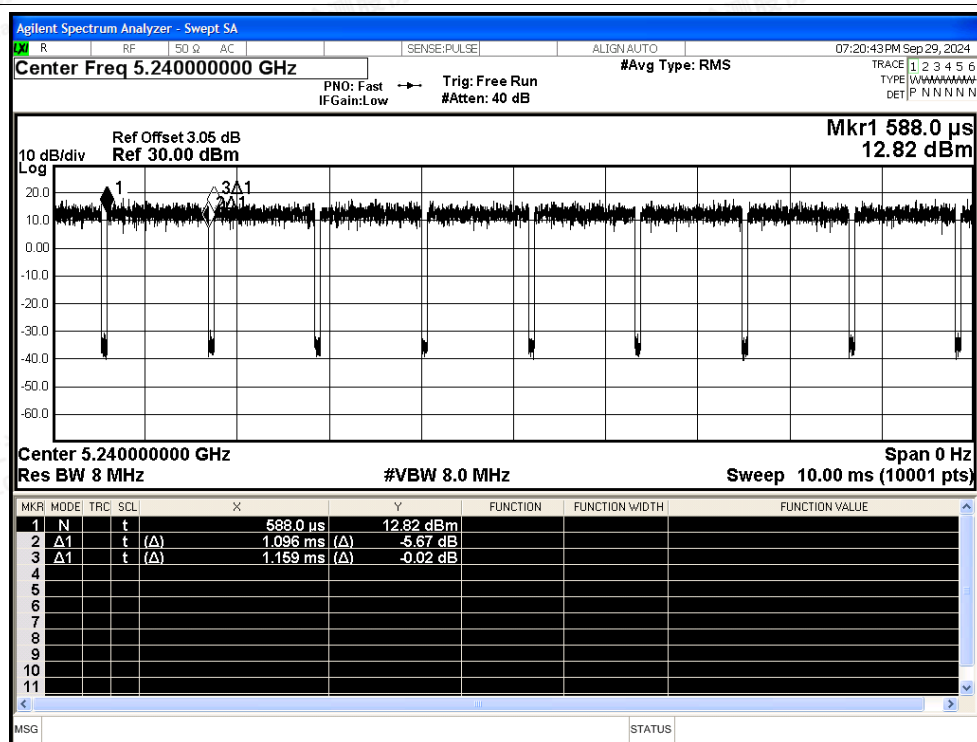
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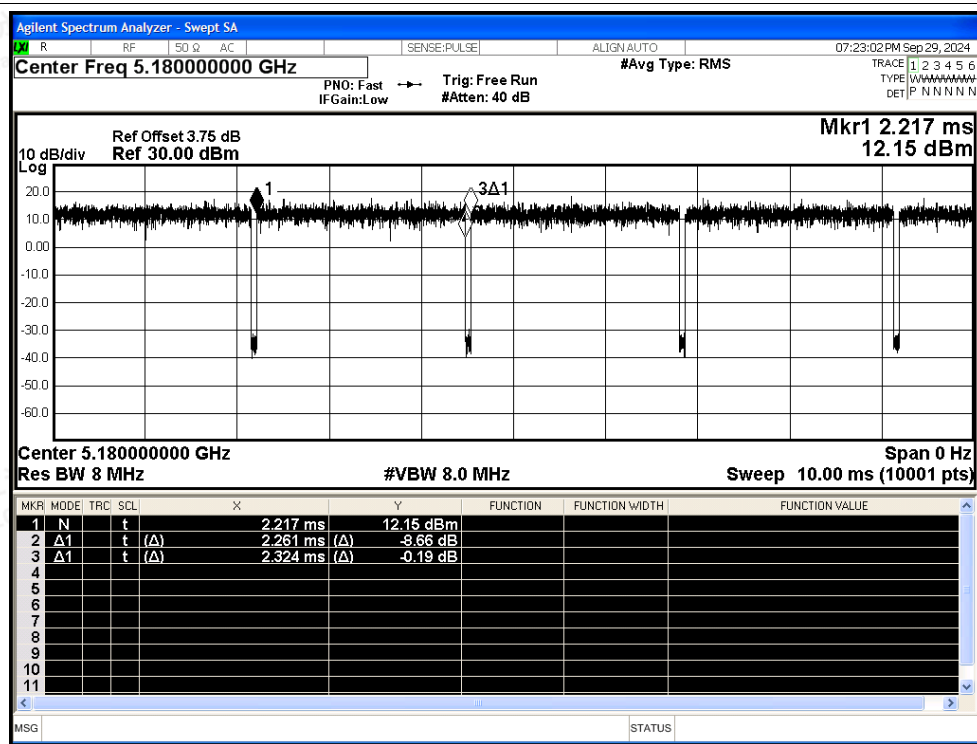
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## Duty Cycle NVNT a 5240MHz Ant1



## Duty Cycle NVNT n20 5180MHz Ant1



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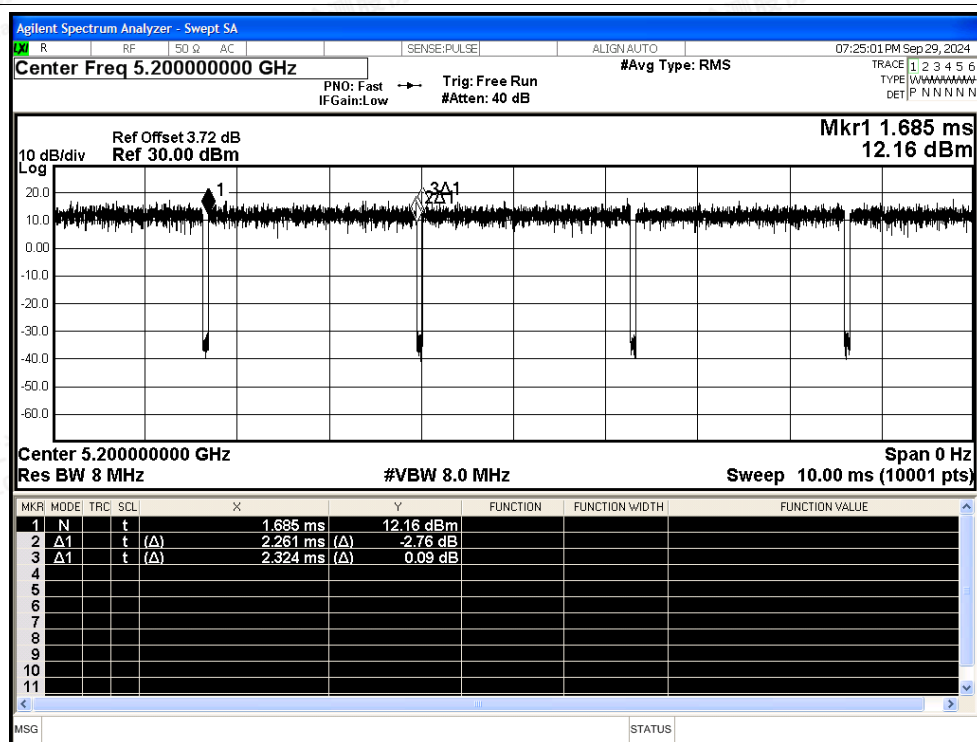
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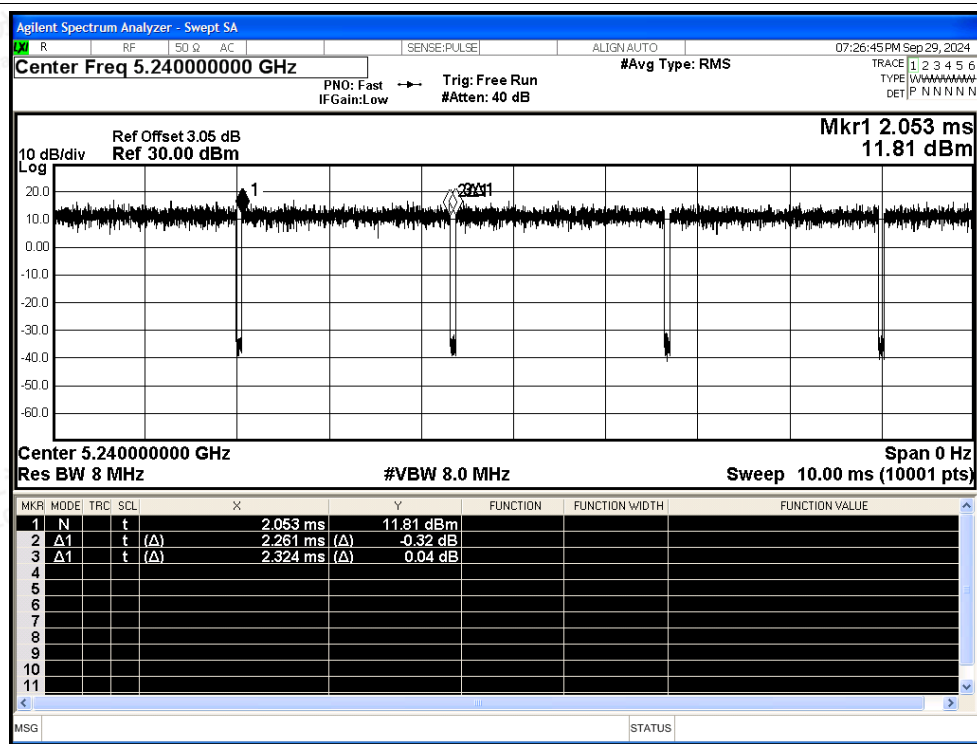
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## Duty Cycle NVNT n20 5200MHz Ant1



## Duty Cycle NVNT n20 5240MHz Ant1

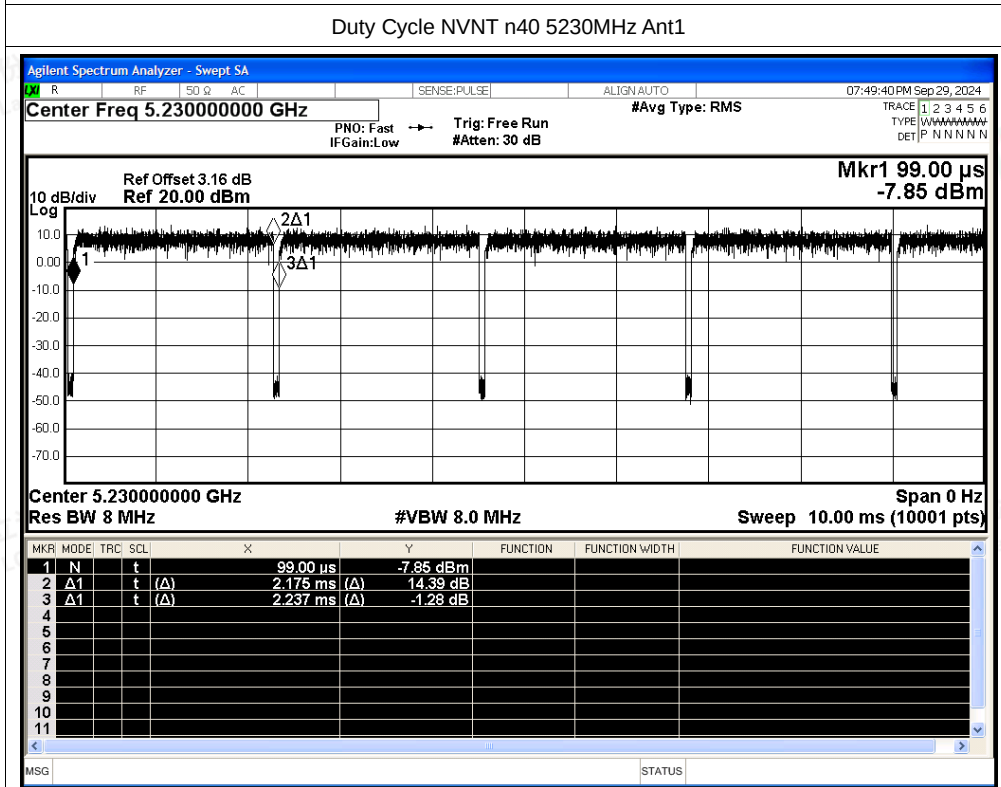
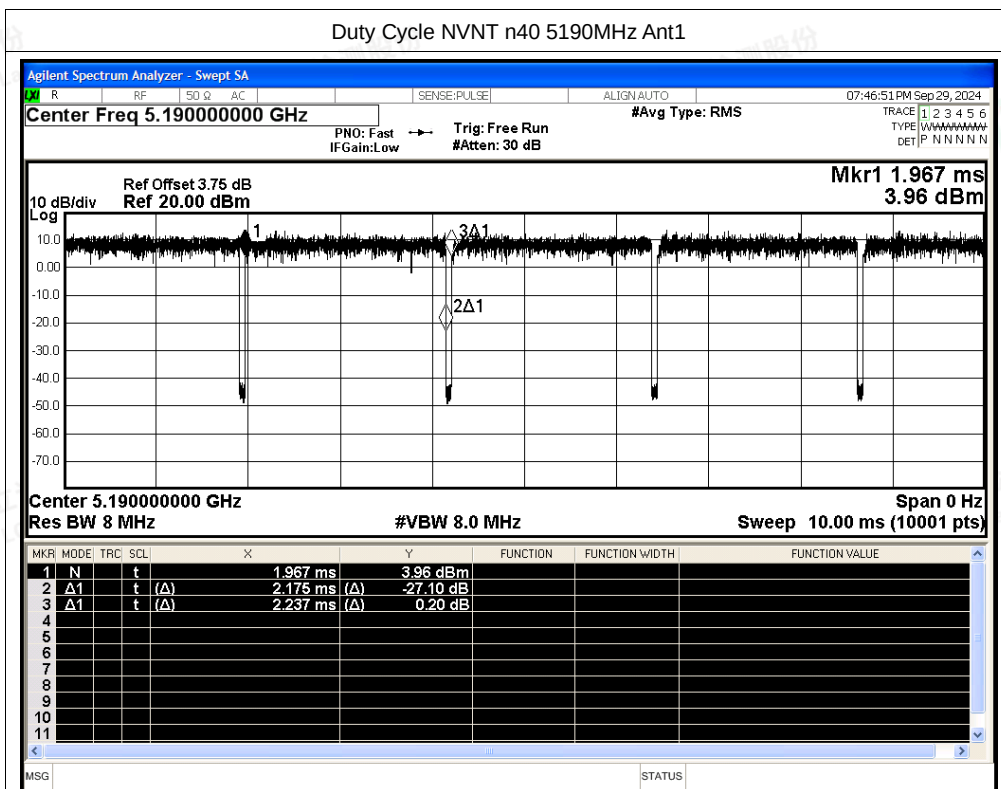


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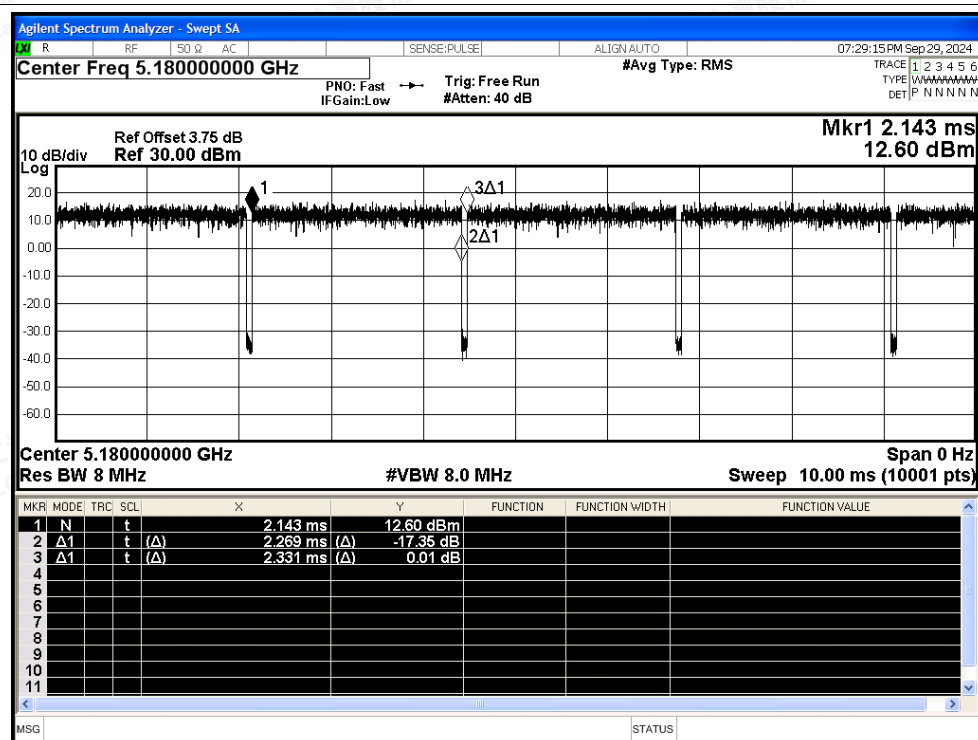
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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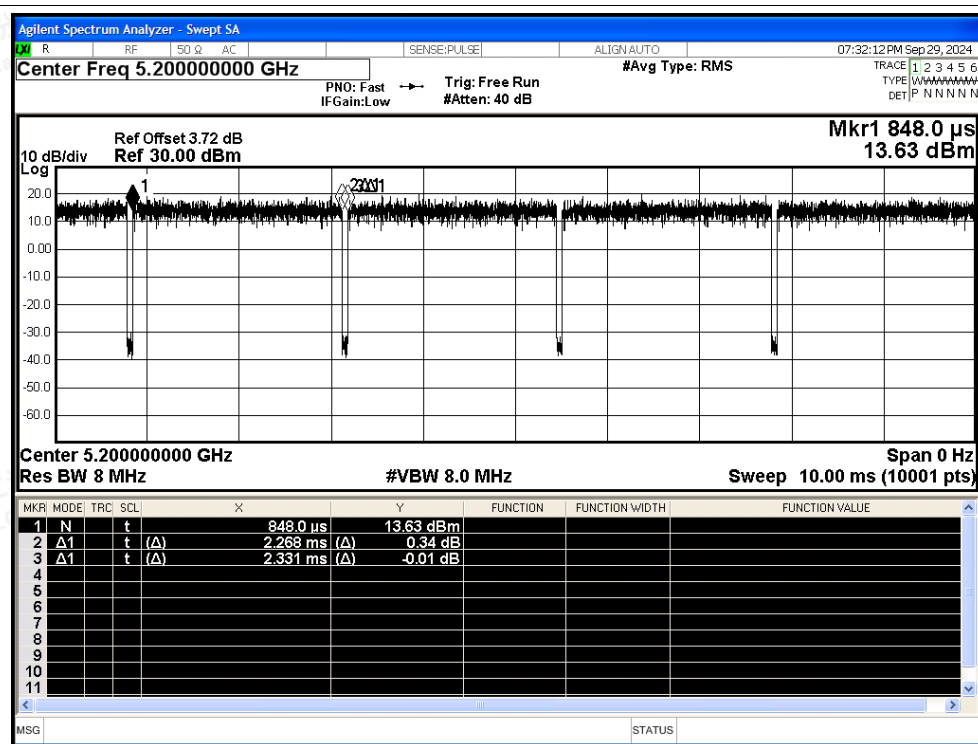
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## Duty Cycle NVNT ac20 5180MHz Ant1



## Duty Cycle NVNT ac20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

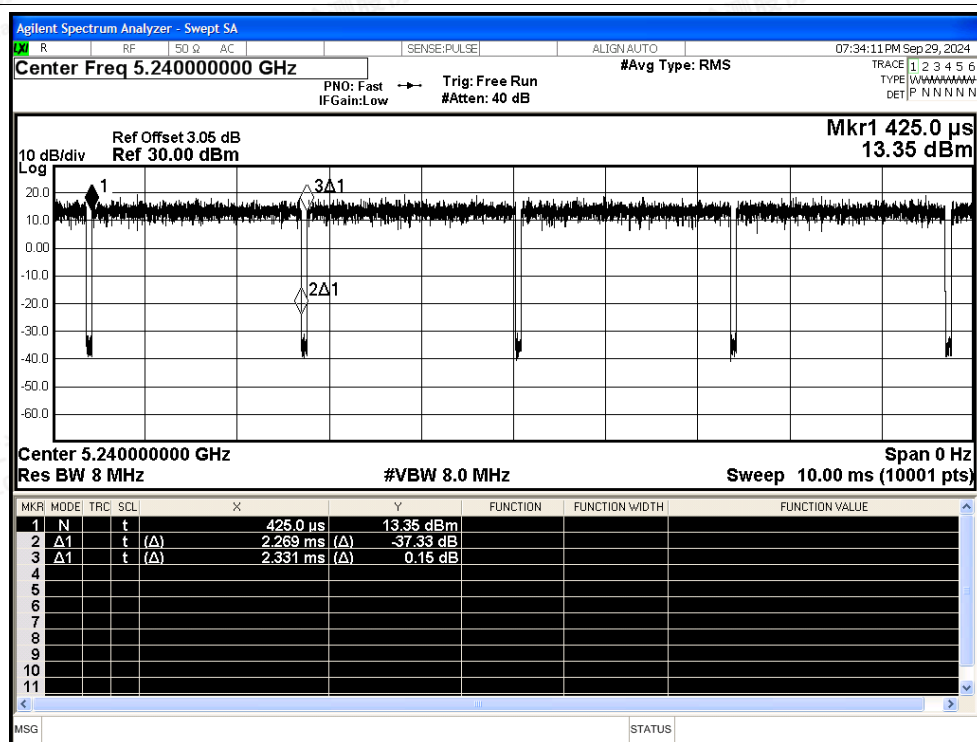
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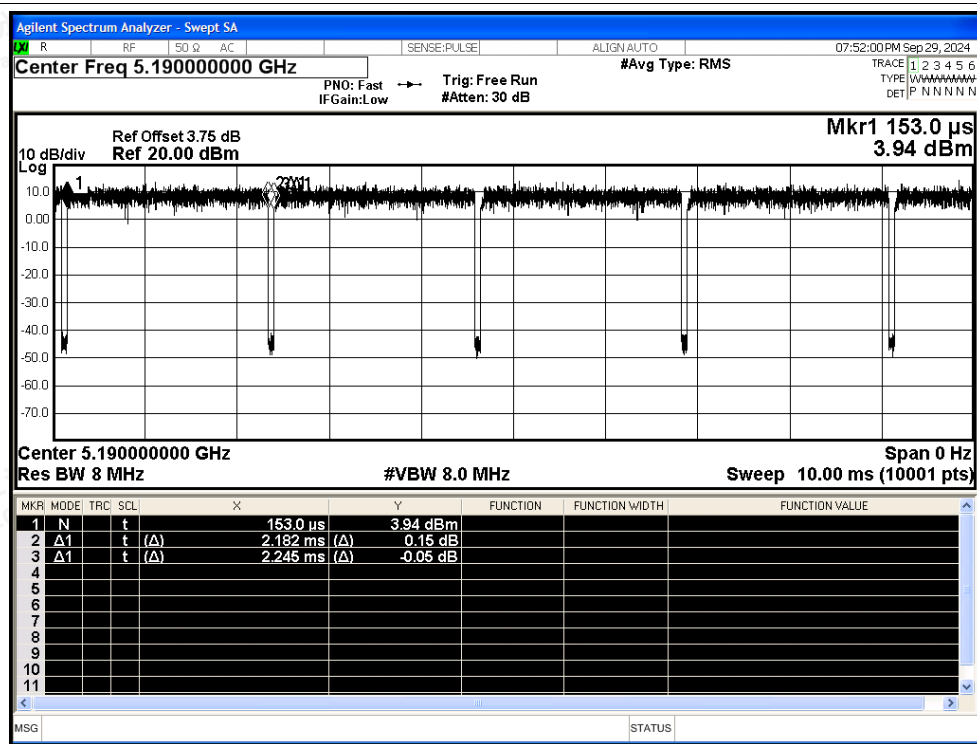
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## Duty Cycle NVNT ac20 5240MHz Ant1



## Duty Cycle NVNT ac40 5190MHz Ant1



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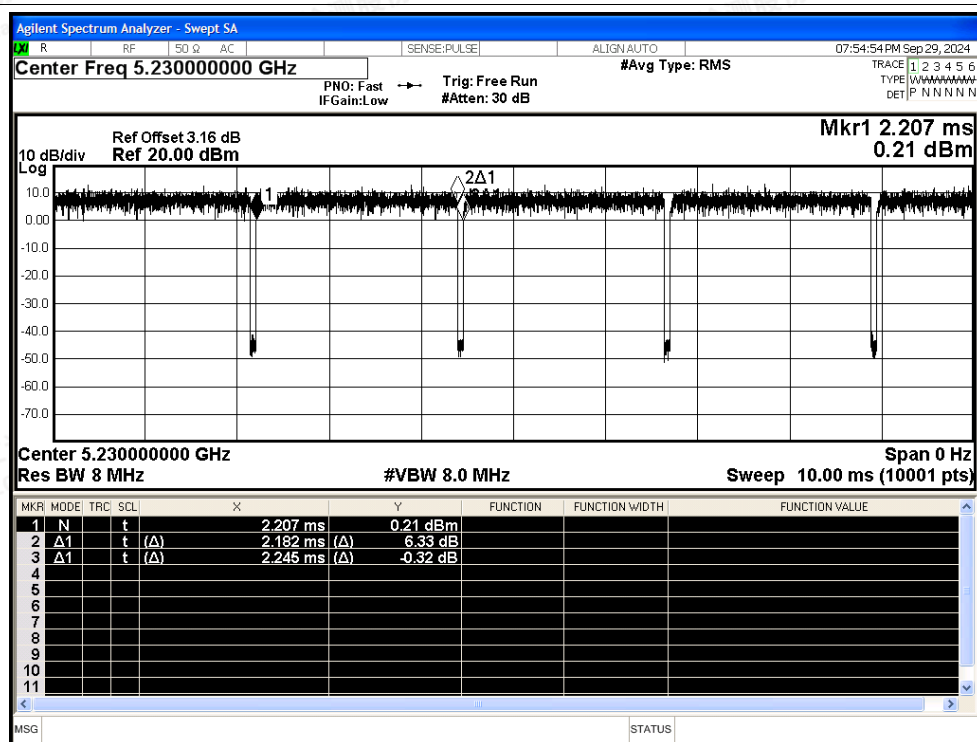
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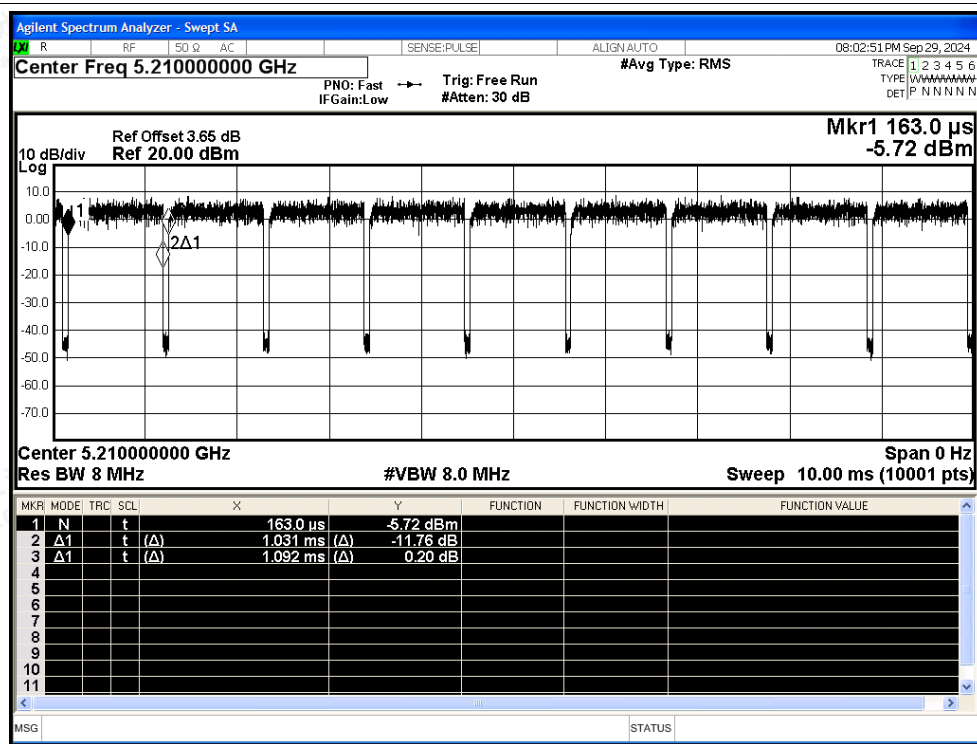
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## Duty Cycle NVNT ac40 5230MHz Ant1



## Duty Cycle NVNT ac80 5210MHz Ant1



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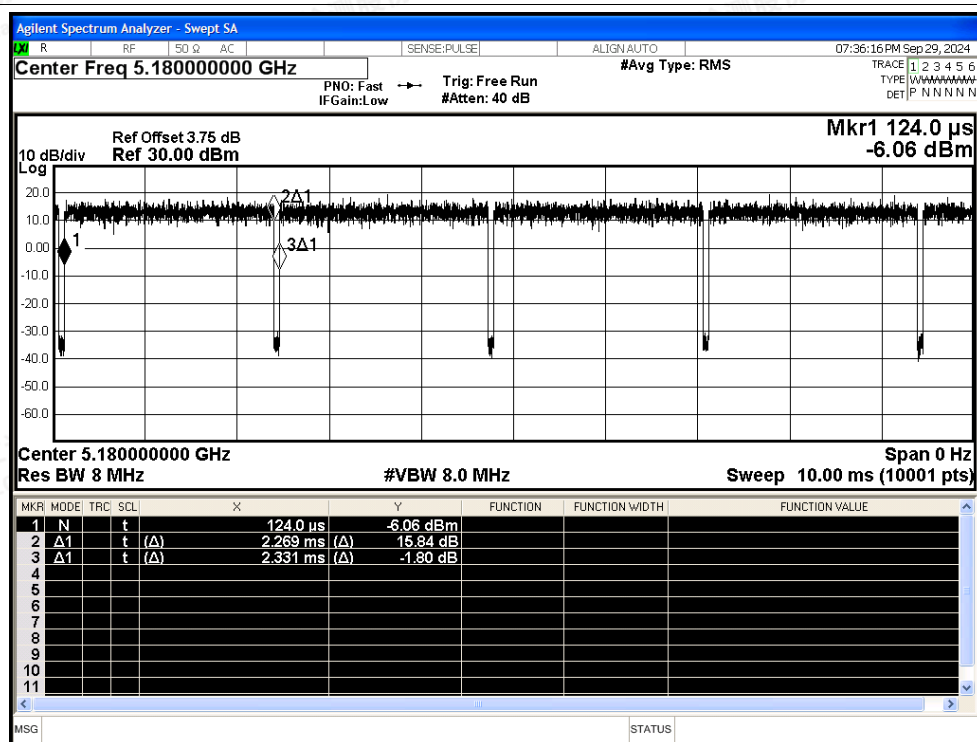
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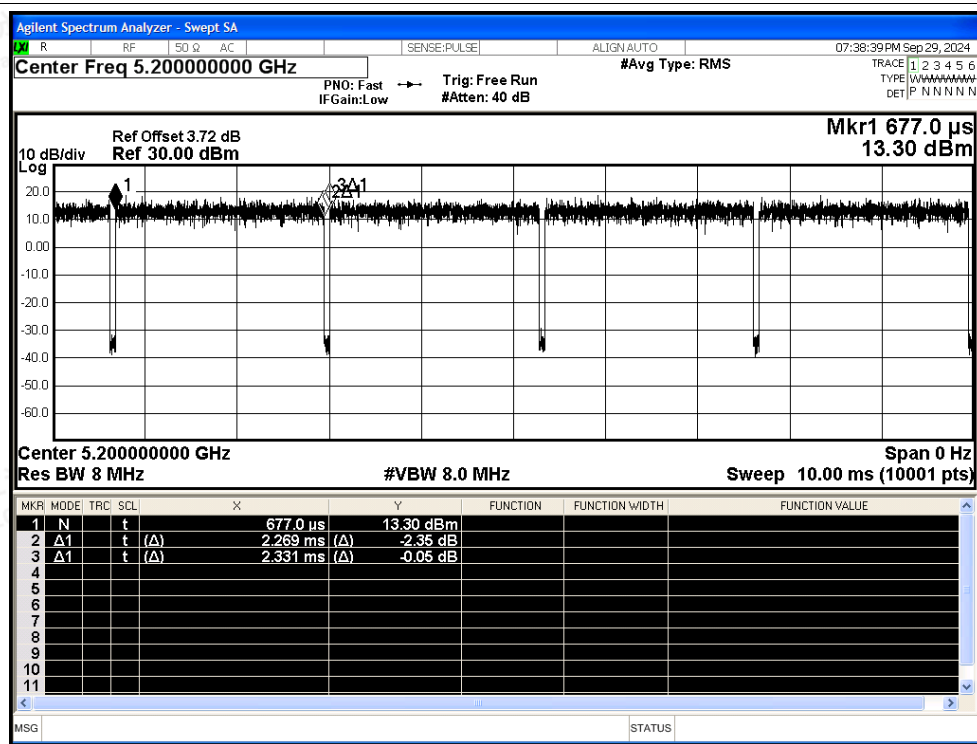
Scan code to check authenticity



## Duty Cycle NVNT ax20 5180MHz Ant1



## Duty Cycle NVNT ax20 5200MHz Ant1



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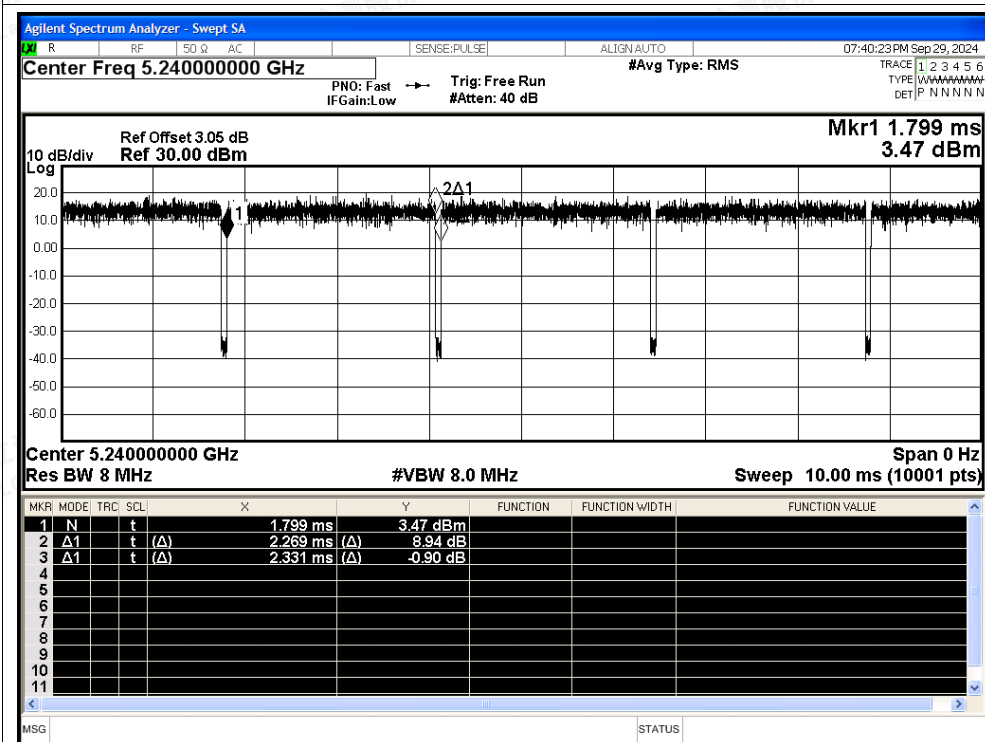
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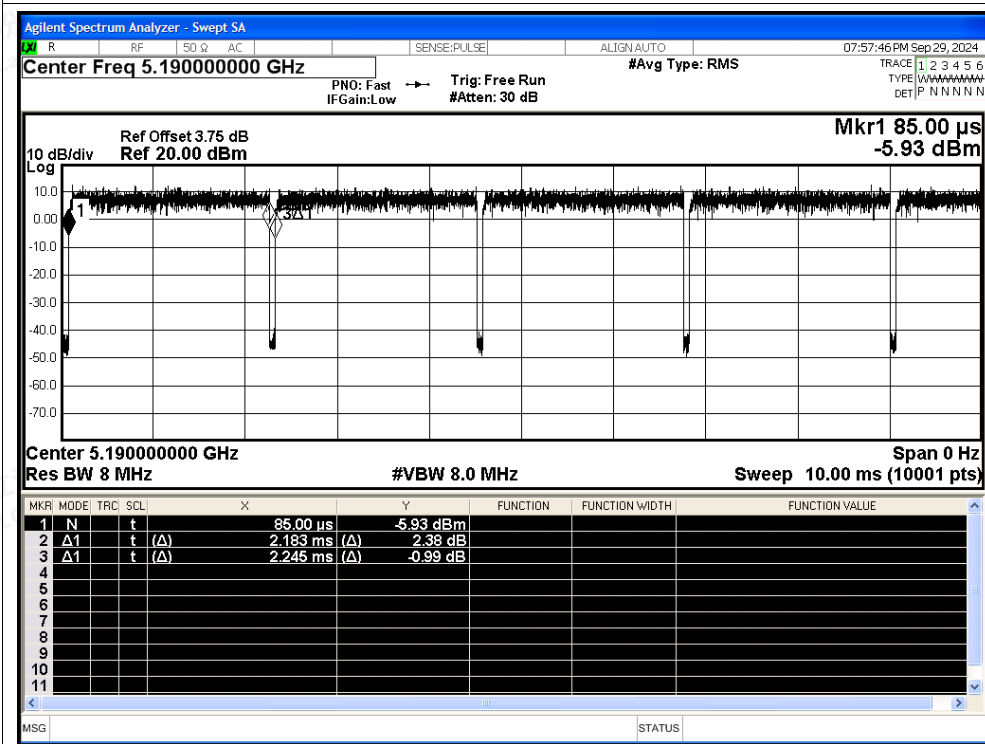
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## Duty Cycle NVNT ax20 5240MHz Ant1



## Duty Cycle NVNT ax40 5190MHz Ant1



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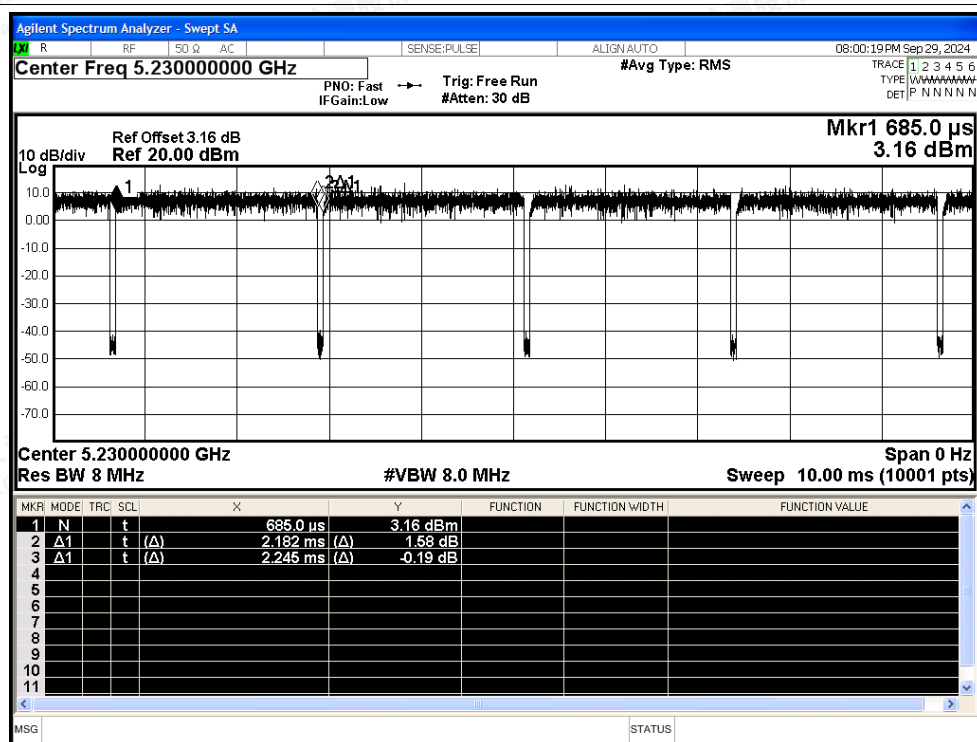
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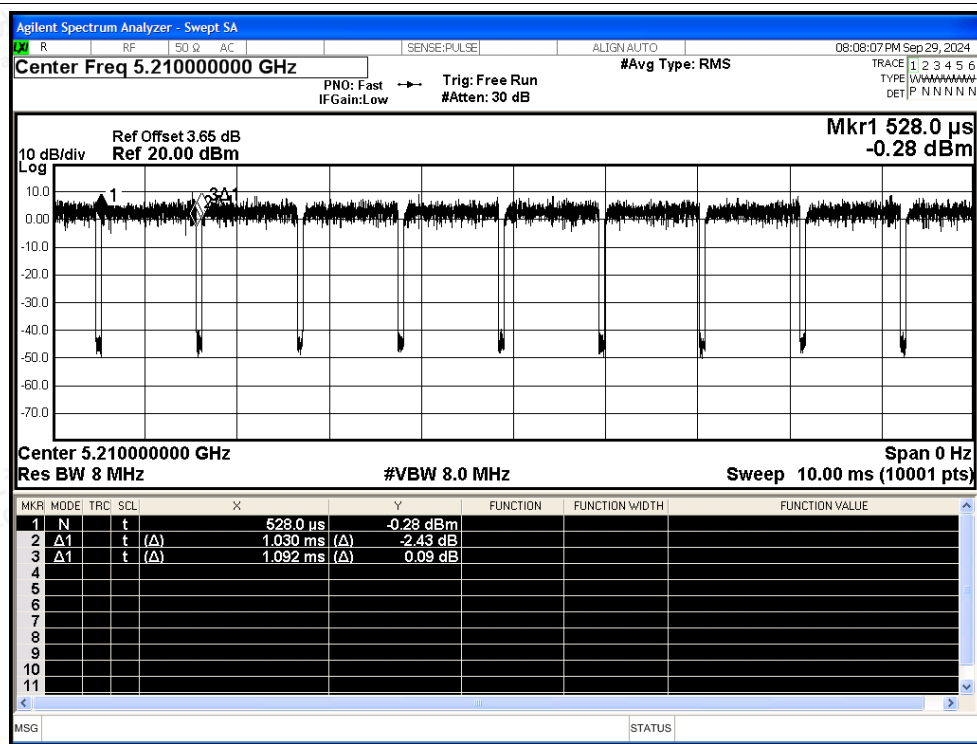
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## Duty Cycle NVNT ax40 5230MHz Ant1



## Duty Cycle NVNT ax80 5210MHz Ant1



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