



## Appendix D

### RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: All in one pc

Test Model: XPS24M

#### Environmental Conditions

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



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## D.1 -26dB Bandwidth

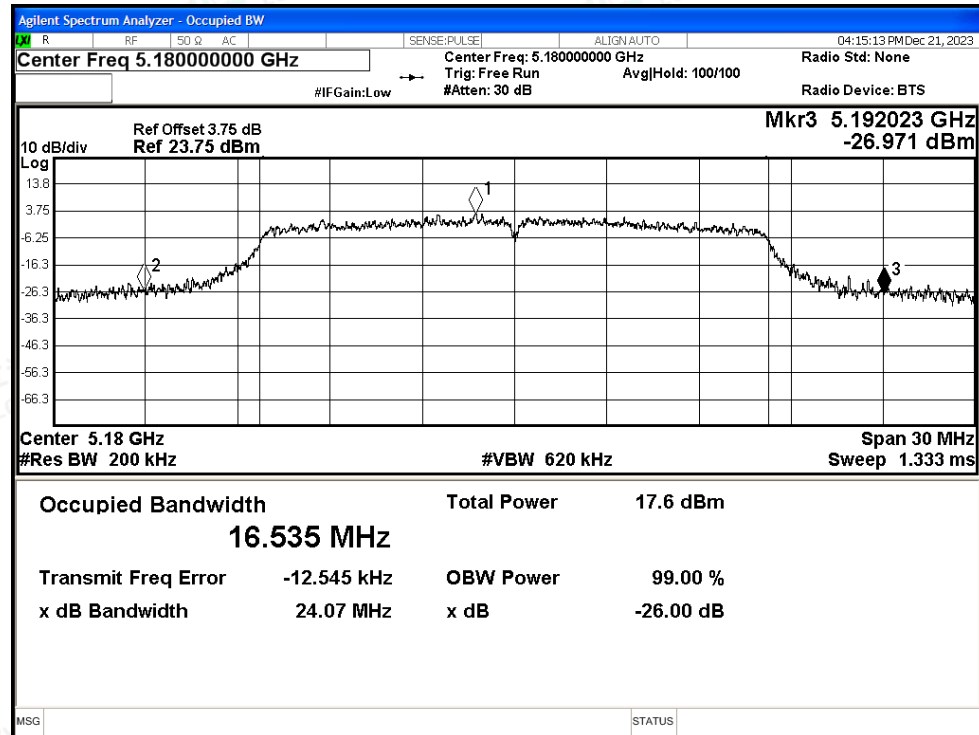
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5180            | Ant0    | 24.071                 | ---                          | Pass    |
| NVNT      | a    | 5200            | Ant0    | 25.405                 | ---                          | Pass    |
| NVNT      | a    | 5240            | Ant0    | 29.923                 | ---                          | Pass    |
| NVNT      | n20  | 5180            | Ant0    | 25.676                 | ---                          | Pass    |
| NVNT      | n20  | 5200            | Ant0    | 27.033                 | ---                          | Pass    |
| NVNT      | n20  | 5240            | Ant0    | 30                     | ---                          | Pass    |
| NVNT      | n40  | 5190            | Ant0    | 48.623                 | ---                          | Pass    |
| NVNT      | n40  | 5230            | Ant0    | 58.463                 | ---                          | Pass    |
| NVNT      | ac20 | 5180            | Ant0    | 27.643                 | ---                          | Pass    |
| NVNT      | ac20 | 5200            | Ant0    | 28.212                 | ---                          | Pass    |
| NVNT      | ac20 | 5240            | Ant0    | 30                     | ---                          | Pass    |
| NVNT      | ac40 | 5190            | Ant0    | 52.332                 | ---                          | Pass    |
| NVNT      | ac40 | 5230            | Ant0    | 58.928                 | ---                          | Pass    |
| NVNT      | ac80 | 5210            | Ant0    | 99.857                 | ---                          | Pass    |



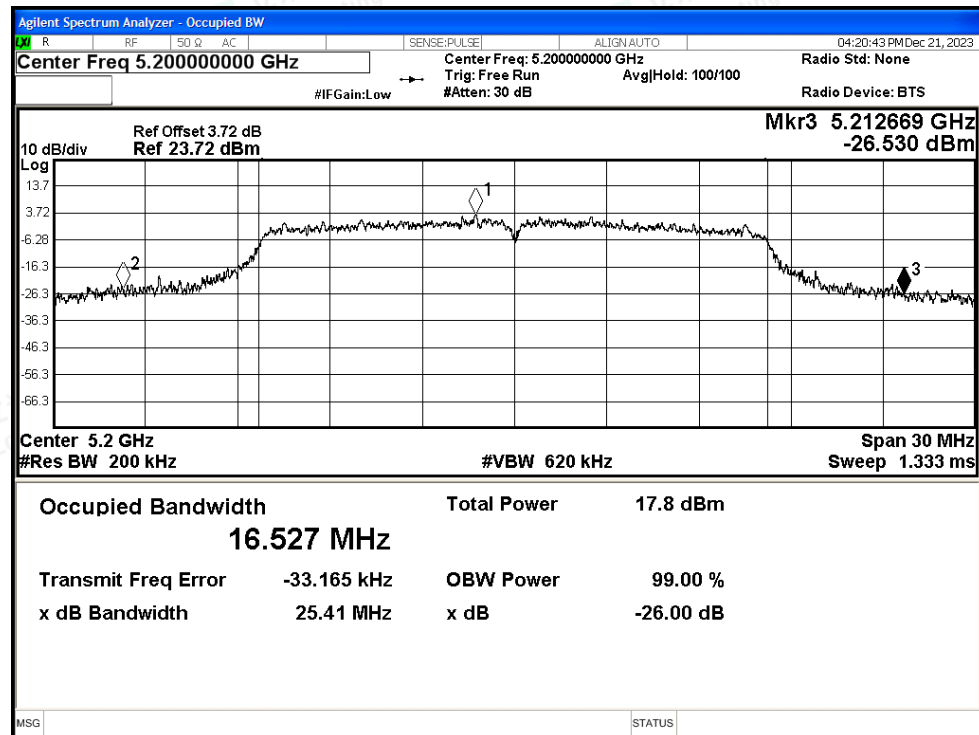


## Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5200MHz Ant0

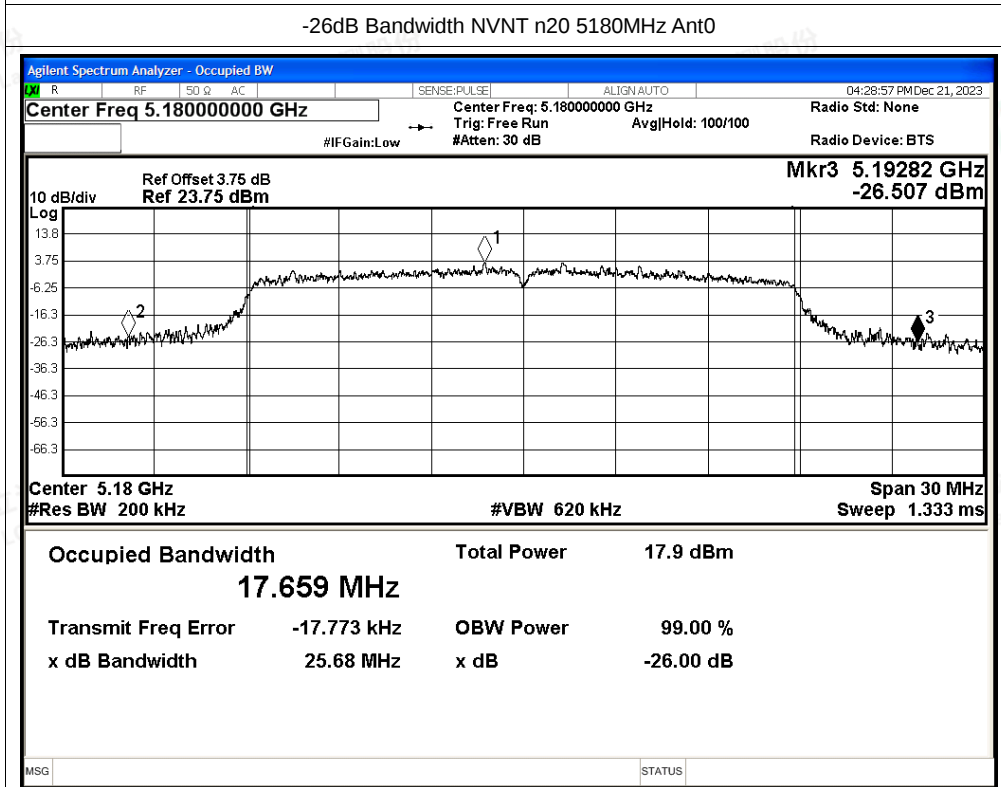
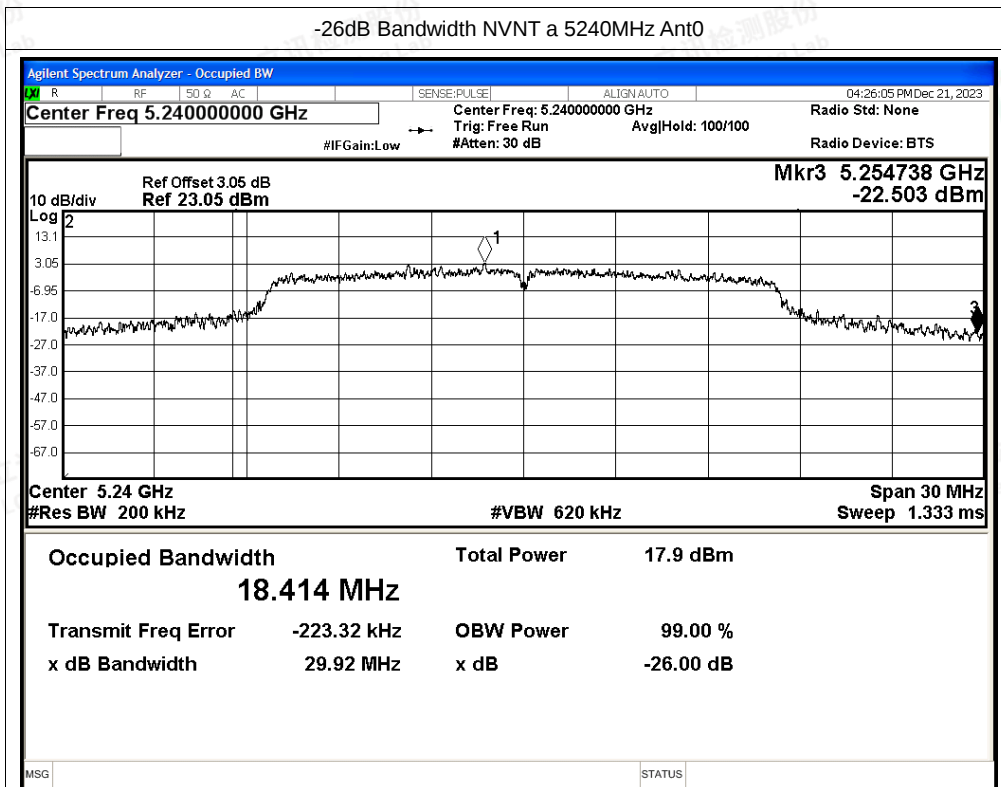


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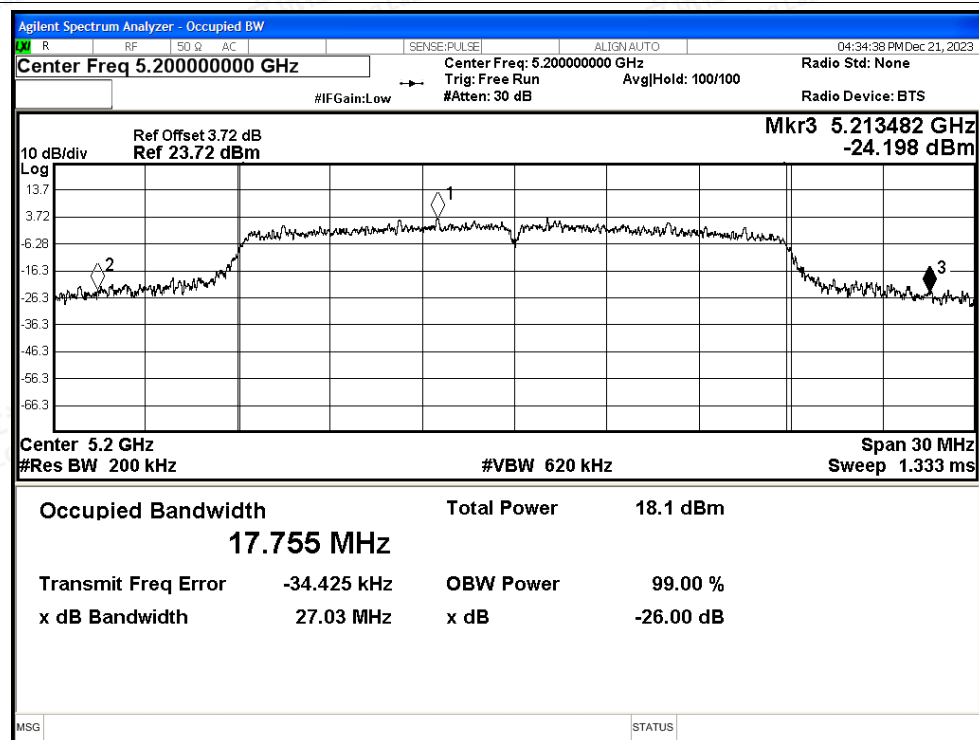
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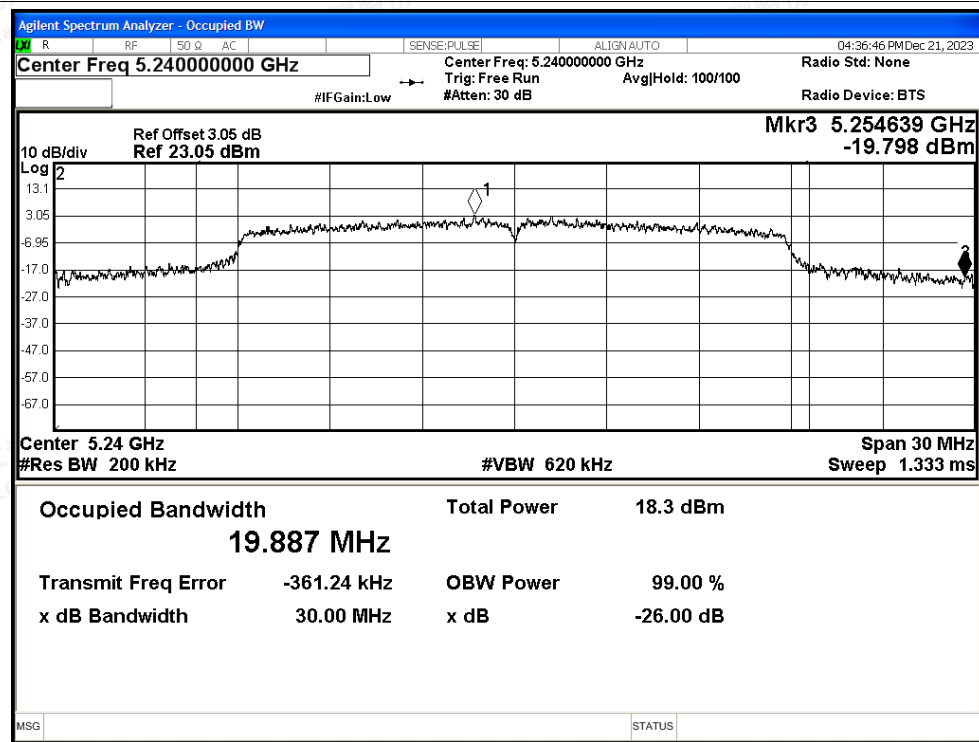
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-26dB Bandwidth NVNT n20 5200MHz Ant0



-26dB Bandwidth NVNT n20 5240MHz Ant0



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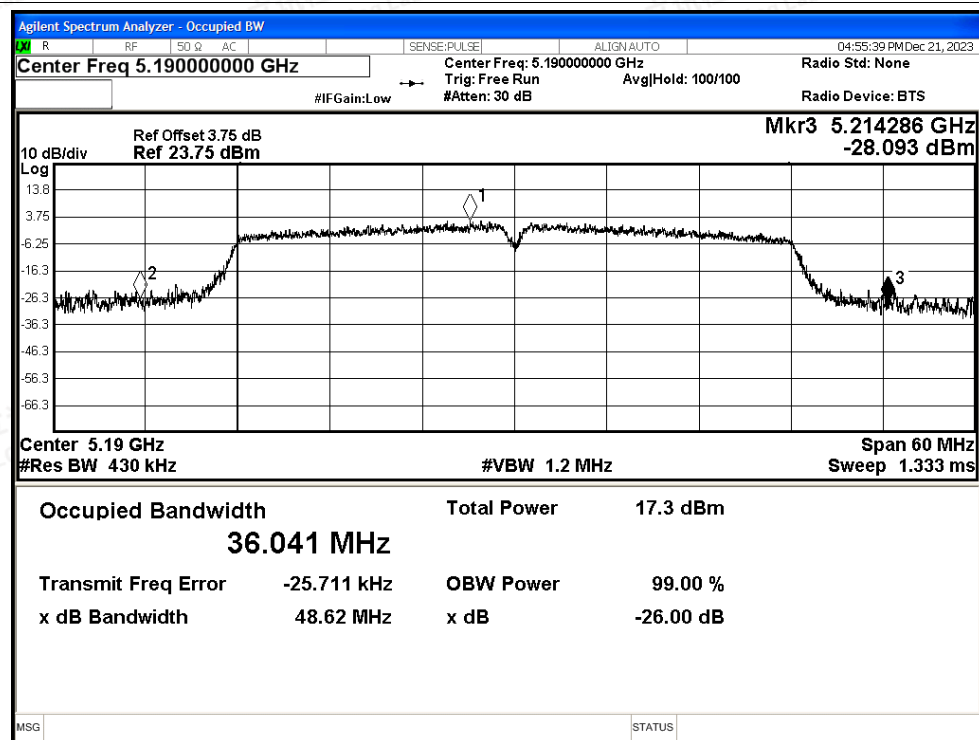
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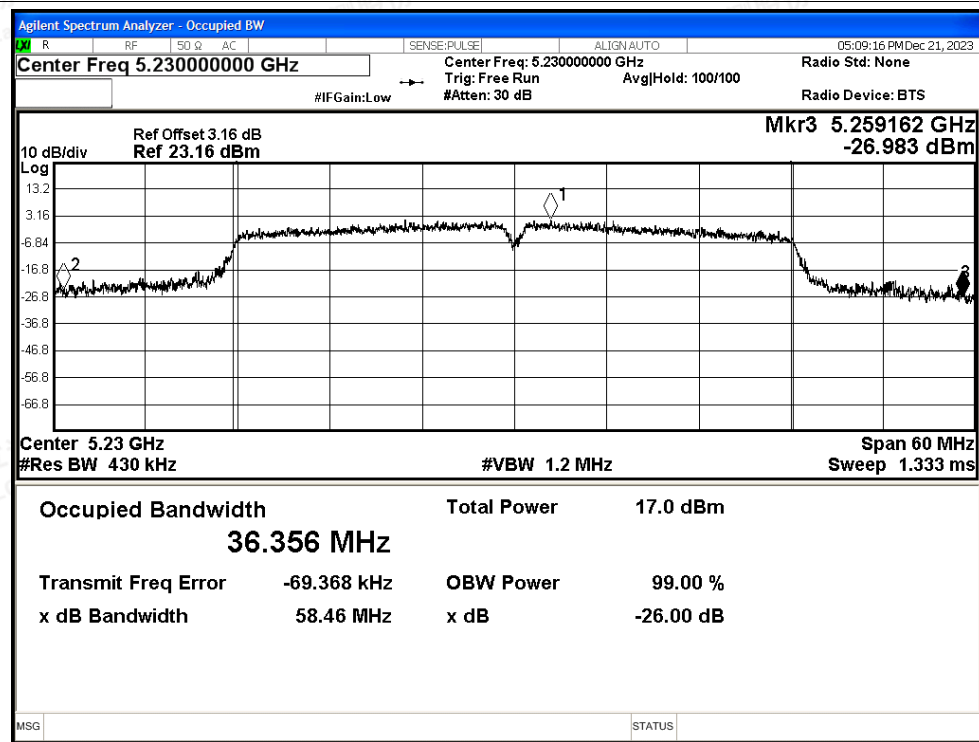
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-26dB Bandwidth NVNT n40 5190MHz Ant0

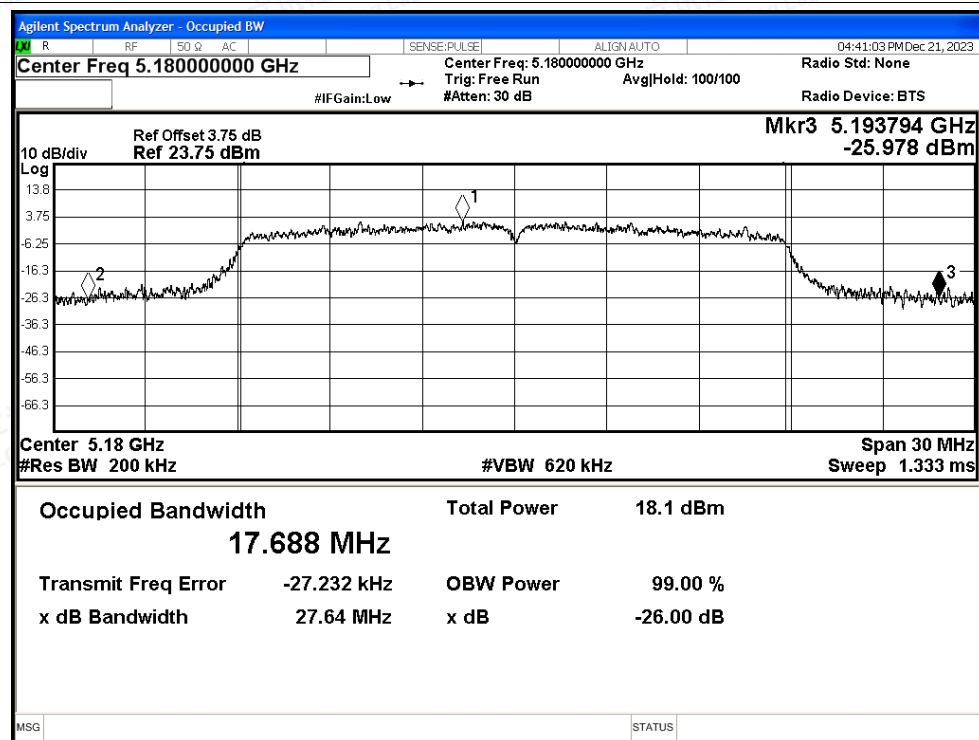


-26dB Bandwidth NVNT n40 5230MHz Ant0

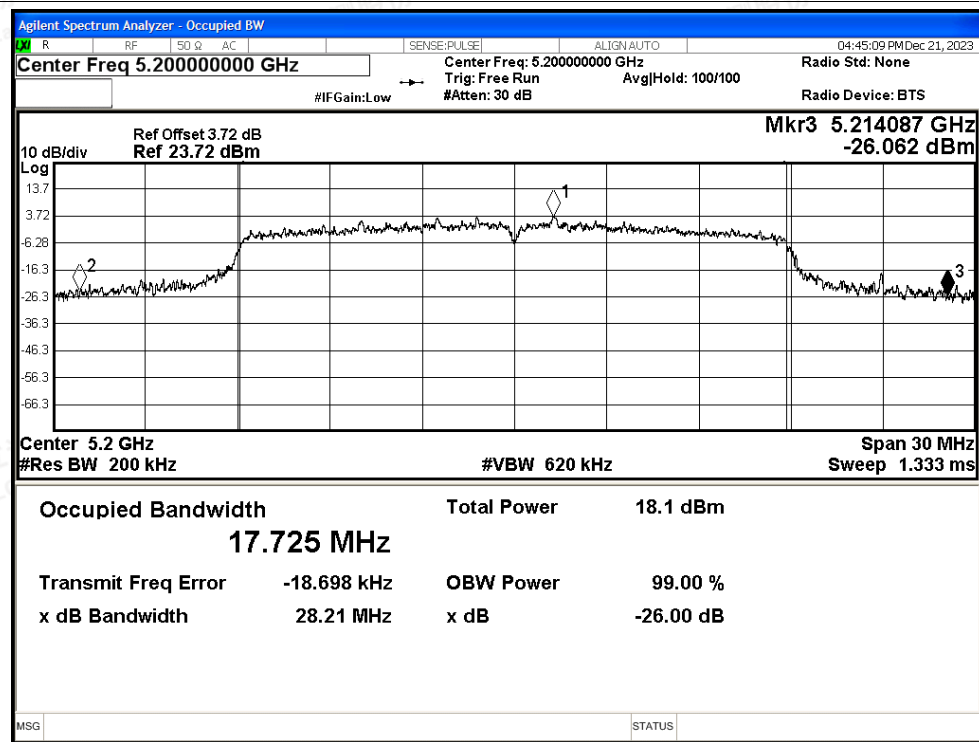




## -26dB Bandwidth NVNT ac20 5180MHz Ant0



## -26dB Bandwidth NVNT ac20 5200MHz Ant0



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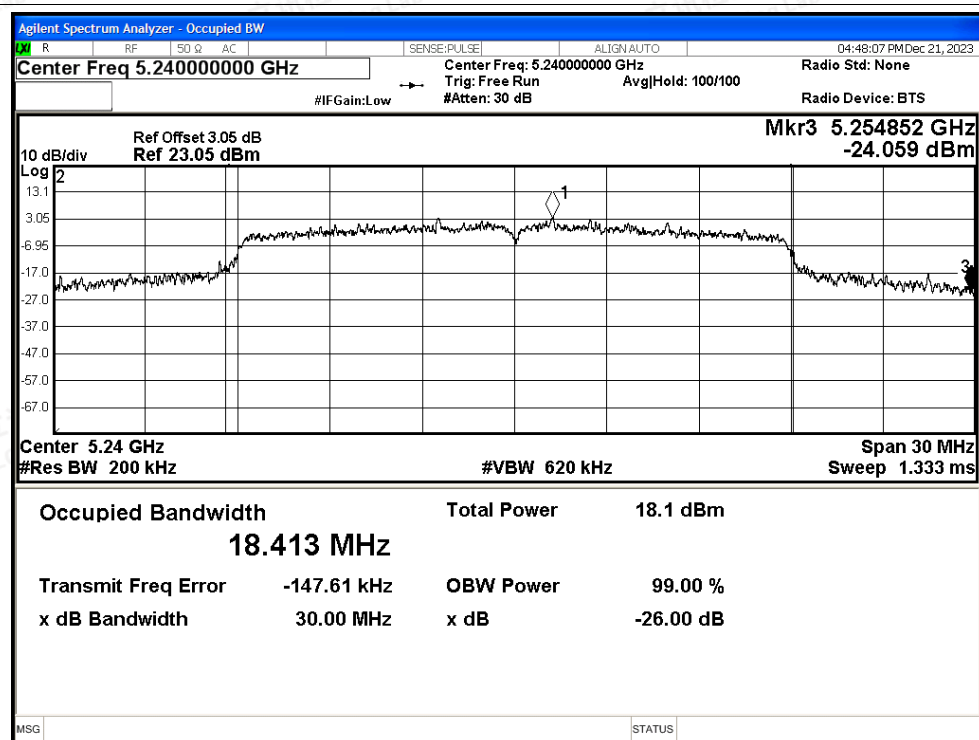
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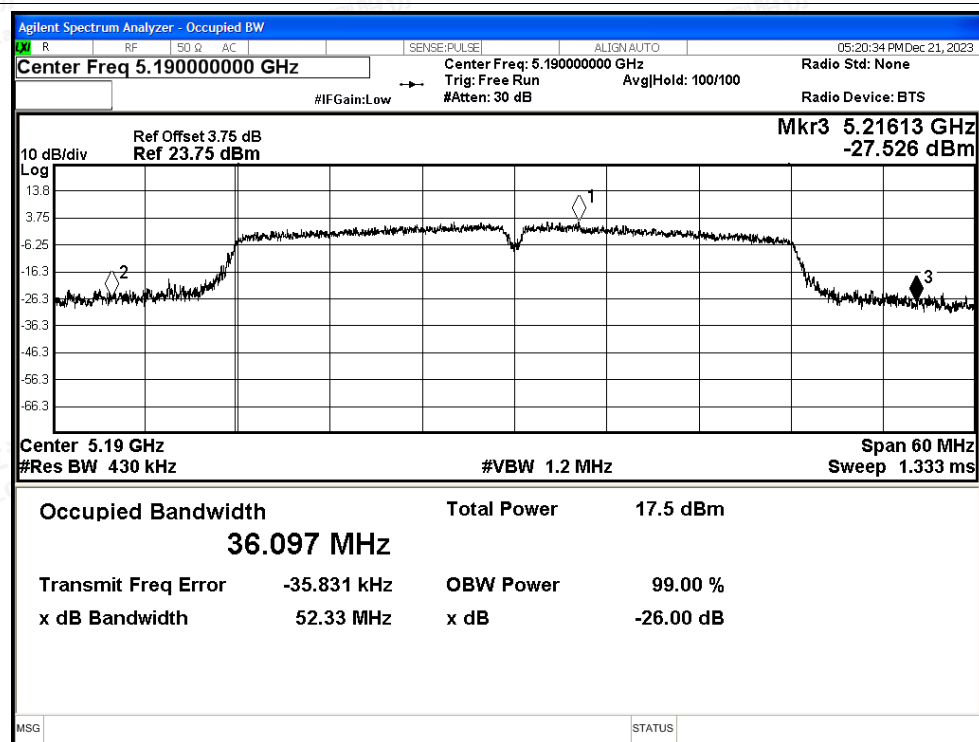
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## -26dB Bandwidth NVNT ac20 5240MHz Ant0

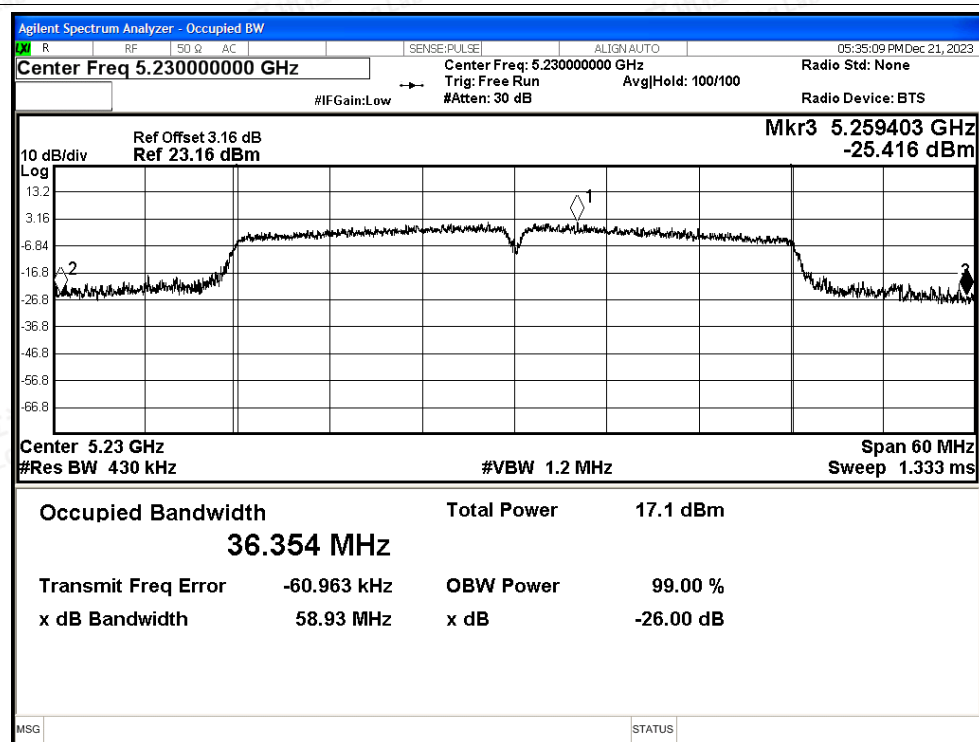


## -26dB Bandwidth NVNT ac40 5190MHz Ant0

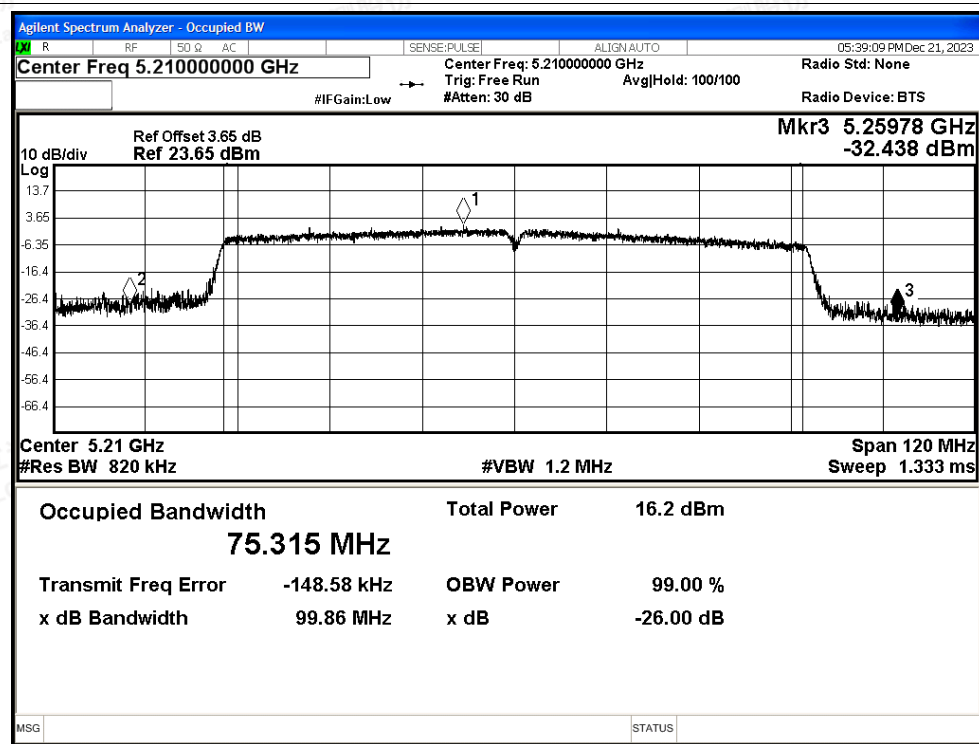




-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0



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| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 19.716                 | ---                          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 19.602                 | ---                          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 19.792                 | ---                          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 19.905                 | ---                          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 19.973                 | ---                          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 20.56                  | ---                          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 40.893                 | ---                          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 40.419                 | ---                          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 19.921                 | ---                          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 19.802                 | ---                          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 19.915                 | ---                          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 39.973                 | ---                          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 40.36                  | ---                          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 80.535                 | ---                          | Pass    |

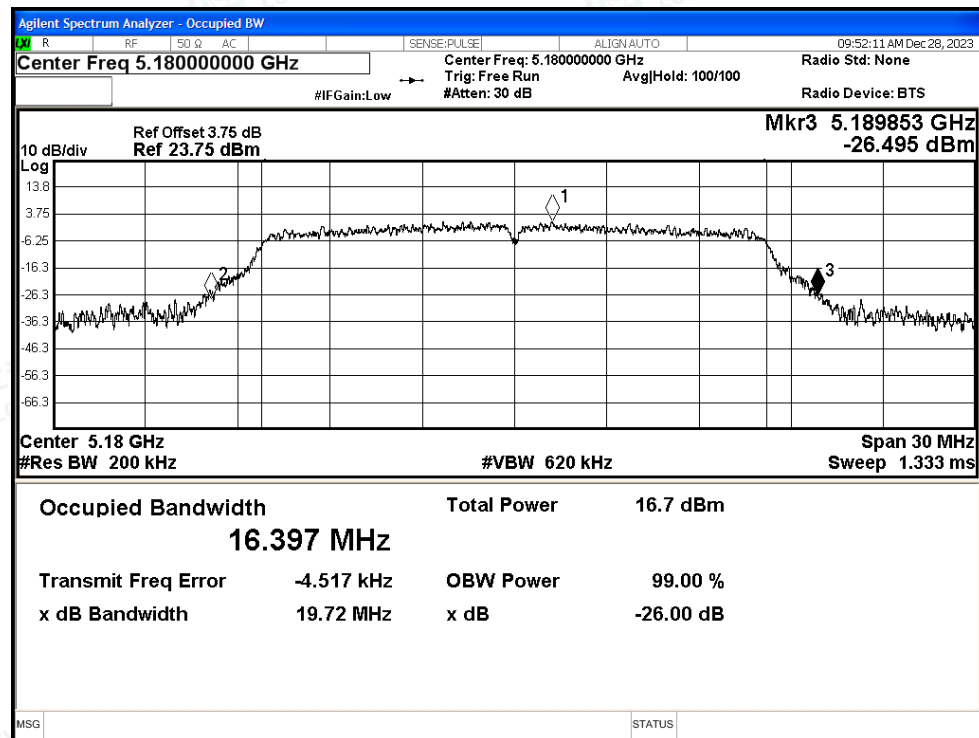


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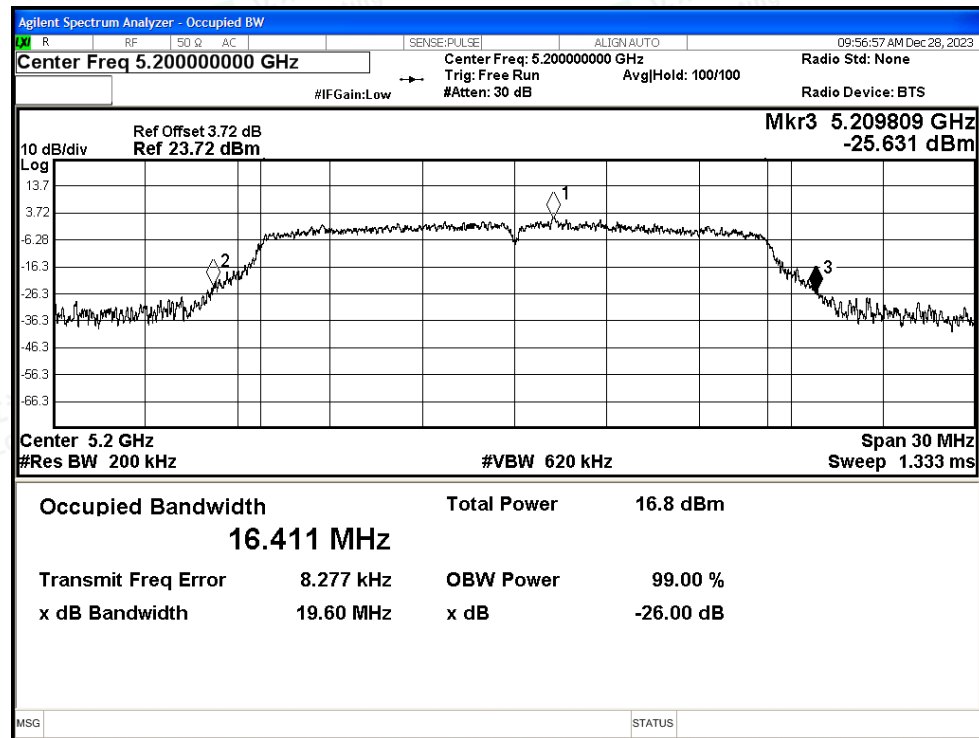


## Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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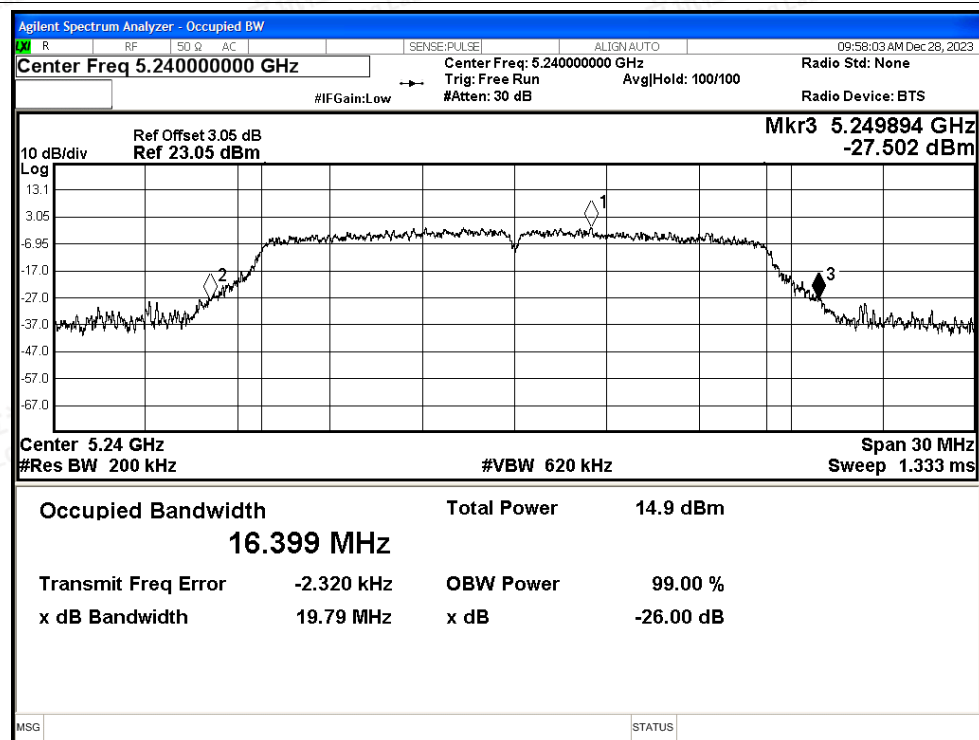
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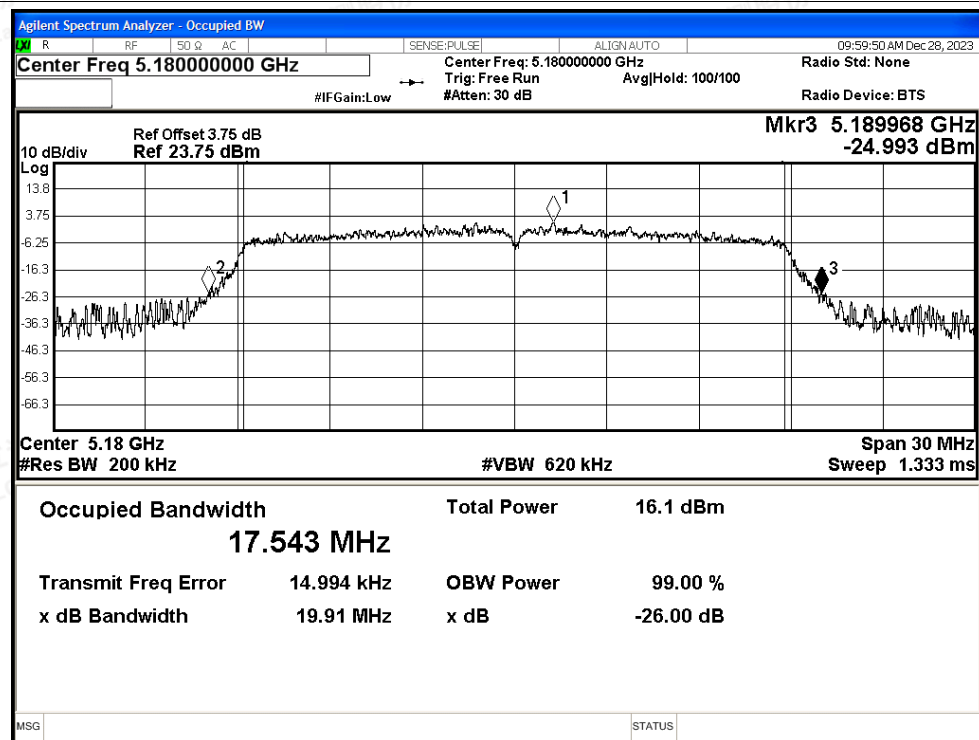
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## -26dB Bandwidth NVNT a 5240MHz Ant1



## -26dB Bandwidth NVNT n20 5180MHz Ant1

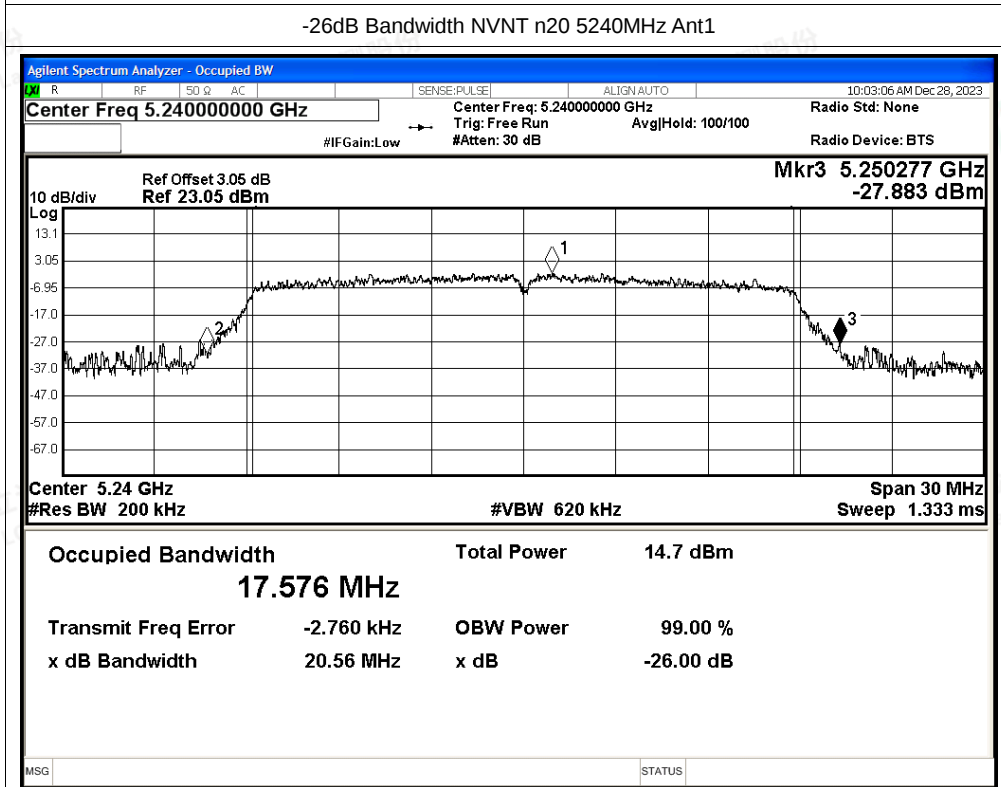
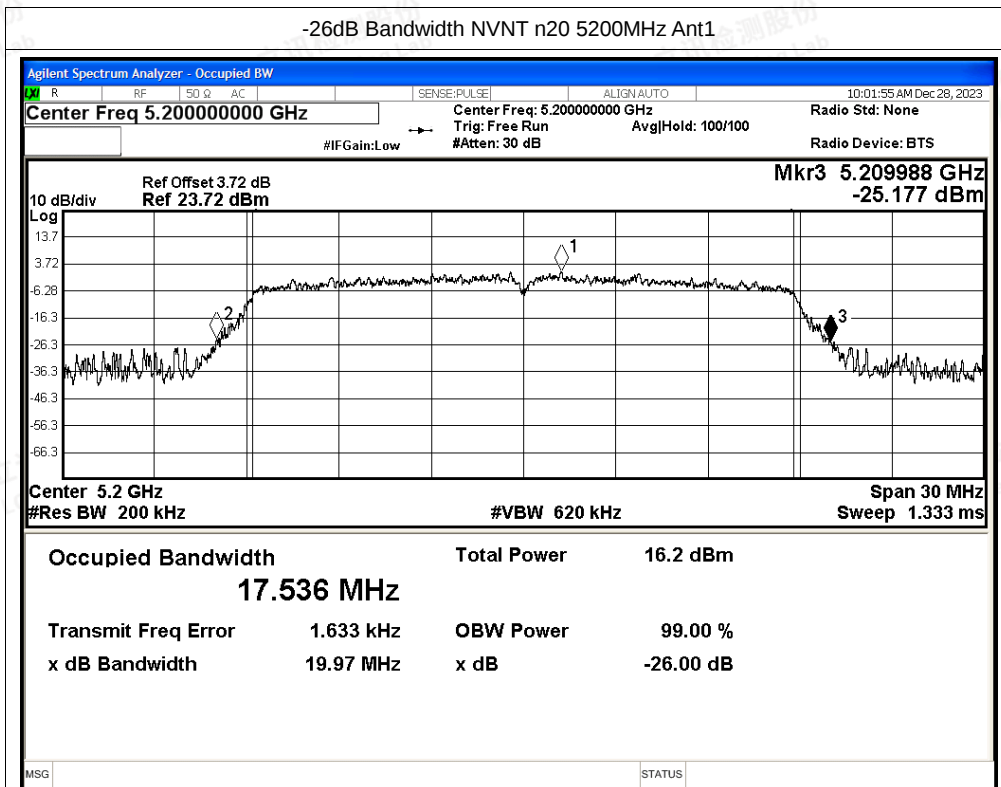


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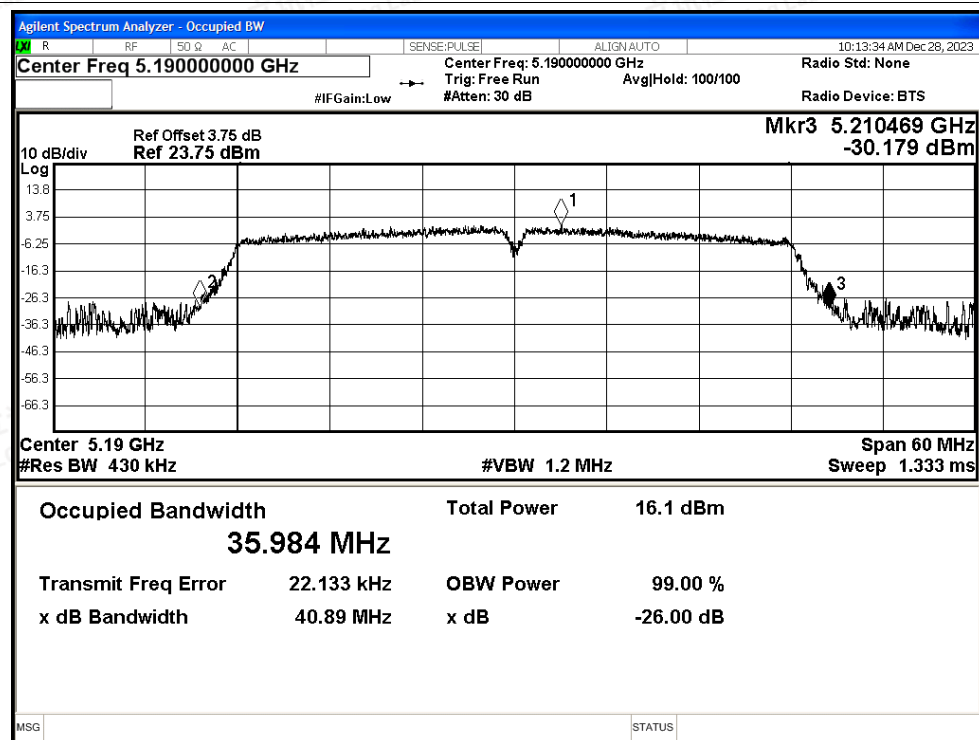
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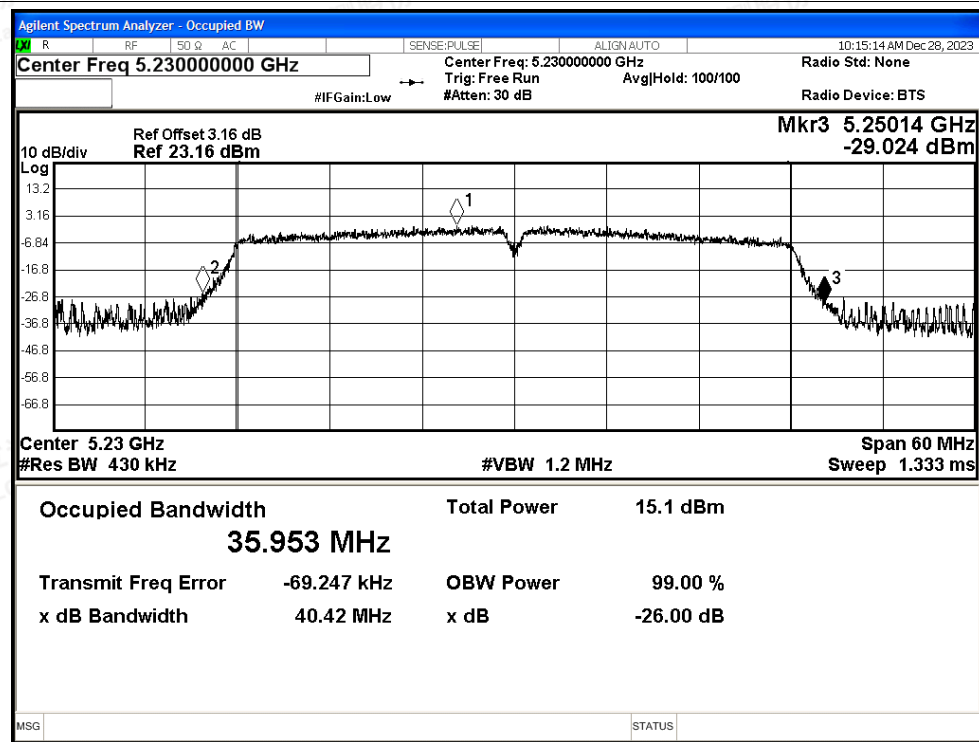
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## -26dB Bandwidth NVNT n40 5190MHz Ant1



## -26dB Bandwidth NVNT n40 5230MHz Ant1



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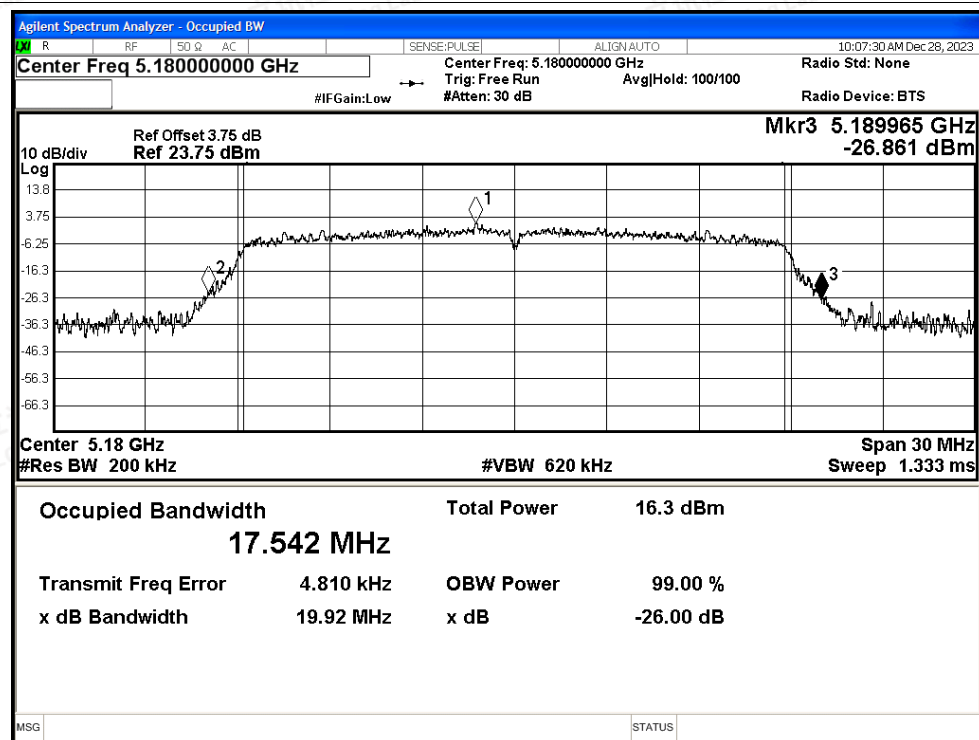
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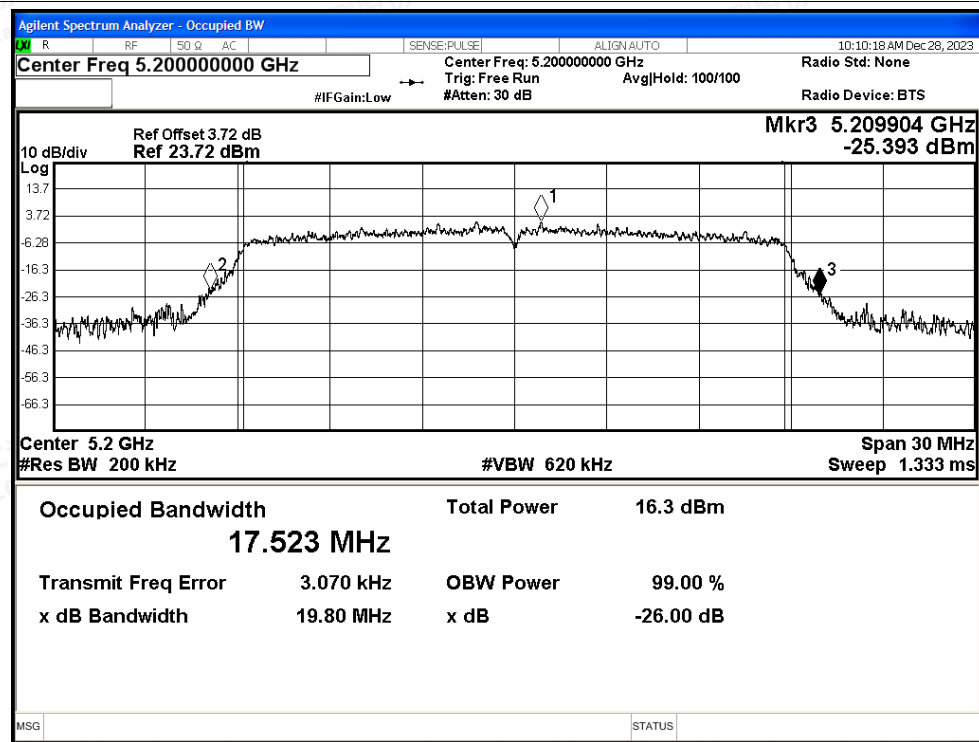
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## -26dB Bandwidth NVNT ac20 5180MHz Ant1



## -26dB Bandwidth NVNT ac20 5200MHz Ant1



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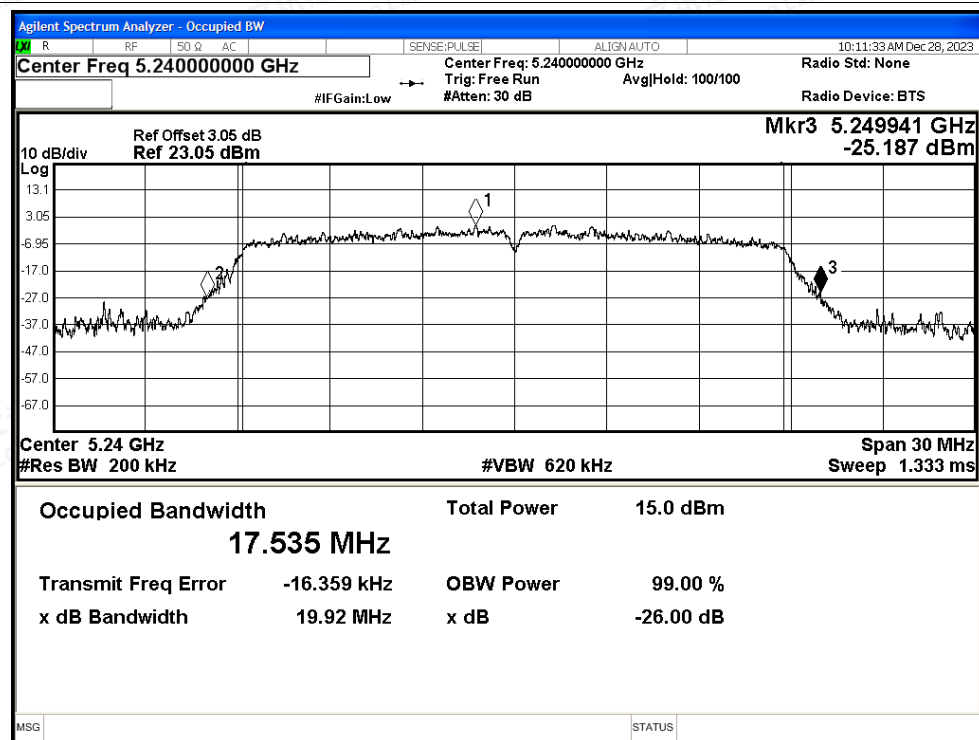
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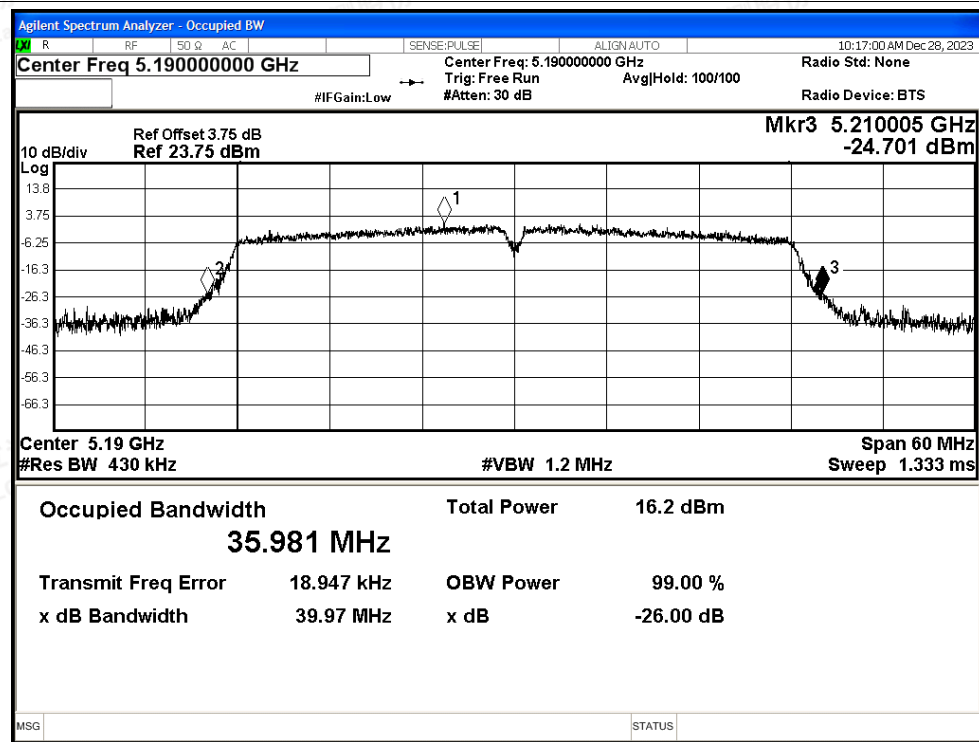
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## -26dB Bandwidth NVNT ac20 5240MHz Ant1



## -26dB Bandwidth NVNT ac40 5190MHz Ant1



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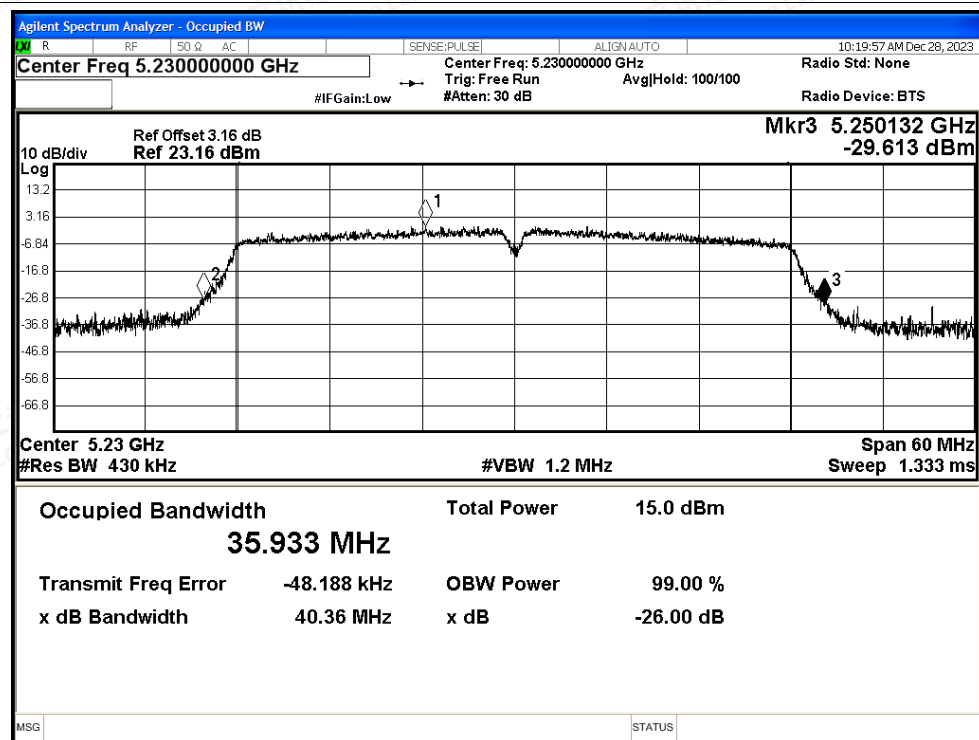
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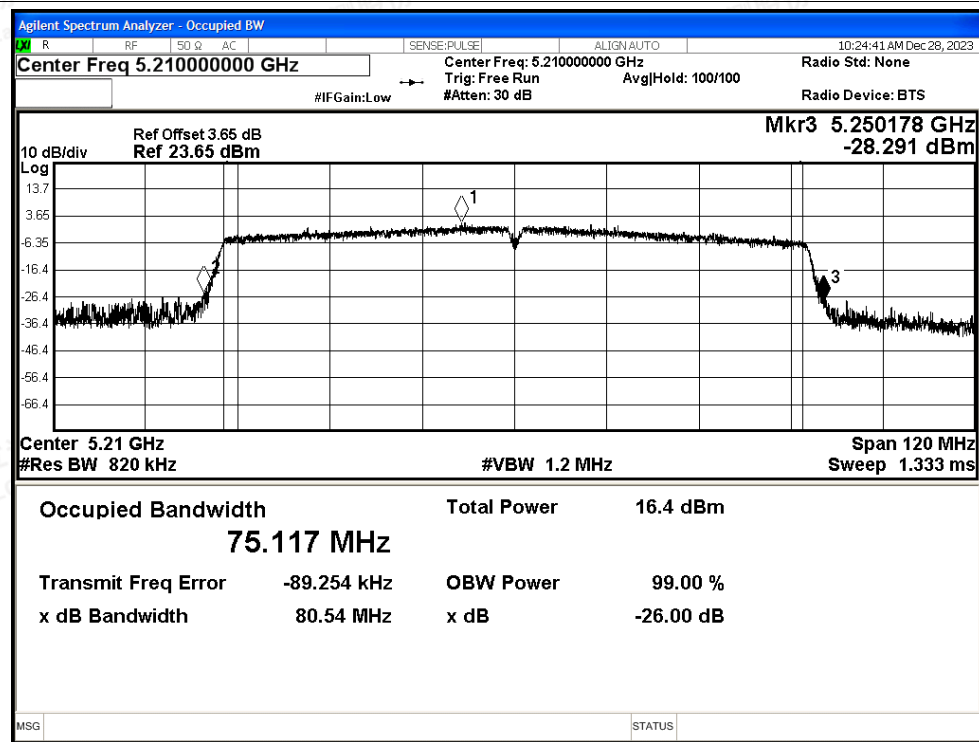
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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## 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            | Ant0    | 11.93                 | 0.13             | 12.06             | 24          | Pass    |
| NVNT      | a    | 5200            | Ant0    | 11.98                 | 0.13             | 12.11             | 24          | Pass    |
| NVNT      | a    | 5240            | Ant0    | 12.08                 | 0.14             | 12.22             | 24          | Pass    |
| NVNT      | n20  | 5180            | Ant0    | 12.19                 | 0.15             | 12.34             | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant0    | 12.36                 | 0.15             | 12.51             | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant0    | 12.4                  | 0.15             | 12.55             | 24          | Pass    |
| NVNT      | n40  | 5190            | Ant0    | 11.43                 | 0.29             | 11.72             | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant0    | 10.99                 | 0.28             | 11.27             | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant0    | 12.46                 | 0.14             | 12.6              | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant0    | 12.1                  | 0.14             | 12.24             | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant0    | 12.32                 | 0.14             | 12.46             | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant0    | 11.73                 | 0.28             | 12.01             | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant0    | 11.18                 | 0.28             | 11.46             | 24          | Pass    |
| NVNT      | ac80 | 5210            | Ant0    | 9.47                  | 0.55             | 10.02             | 24          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 11.08                 | 0.13             | 11.21             | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 11.27                 | 0.13             | 11.4              | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 9.36                  | 0.13             | 9.49              | 24          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 10.43                 | 0.14             | 10.57             | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 10.56                 | 0.14             | 10.7              | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 9.17                  | 0.14             | 9.31              | 24          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 10.3                  | 0.28             | 10.58             | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 9.12                  | 0.29             | 9.41              | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 10.48                 | 0.15             | 10.63             | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 10.6                  | 0.14             | 10.74             | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 9.17                  | 0.14             | 9.31              | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 10.37                 | 0.28             | 10.65             | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 9.14                  | 0.28             | 9.42              | 24          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 9.47                  | 0.55             | 10.02             | 24          | Pass    |





MIMO

| Condition | Mode | Frequency (MHz) | Total Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant0              | Ant1  | Ant0+Ant1 |             |         |
| NVNT      | n20  | 5180            | 12.34             | 10.57 | 14.55     | 24          | Pass    |
| NVNT      | n20  | 5200            | 12.51             | 10.7  | 14.71     | 24          | Pass    |
| NVNT      | n20  | 5240            | 12.55             | 9.31  | 14.24     | 24          | Pass    |
| NVNT      | n40  | 5190            | 11.72             | 10.58 | 14.20     | 24          | Pass    |
| NVNT      | n40  | 5230            | 11.27             | 9.41  | 13.45     | 24          | Pass    |
| NVNT      | ac20 | 5180            | 12.6              | 10.63 | 14.74     | 24          | Pass    |
| NVNT      | ac20 | 5200            | 12.24             | 10.74 | 14.56     | 24          | Pass    |
| NVNT      | ac20 | 5240            | 12.46             | 9.31  | 14.17     | 24          | Pass    |
| NVNT      | ac40 | 5190            | 12.01             | 10.65 | 14.39     | 24          | Pass    |
| NVNT      | ac40 | 5230            | 11.46             | 9.42  | 13.57     | 24          | Pass    |
| NVNT      | ac80 | 5210            | 10.02             | 10.02 | 13.03     | 24          | Pass    |



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### D.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant0    | 2.24                | 0.13             | 2.37            | 11          | Pass    |
| NVNT      | a    | 5200            | Ant0    | 2.43                | 0.13             | 2.56            | 11          | Pass    |
| NVNT      | a    | 5240            | Ant0    | 2.41                | 0.14             | 2.55            | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant0    | 2.56                | 0.15             | 2.71            | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant0    | 2.53                | 0.15             | 2.68            | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant0    | 2.72                | 0.15             | 2.87            | 11          | Pass    |
| NVNT      | n40  | 5190            | Ant0    | -1.08               | 0.29             | -0.79           | 11          | Pass    |
| NVNT      | n40  | 5230            | Ant0    | -1.9                | 0.28             | -1.62           | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant0    | 2.57                | 0.14             | 2.71            | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant0    | 2.28                | 0.14             | 2.42            | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant0    | 2.29                | 0.14             | 2.43            | 11          | Pass    |
| NVNT      | ac40 | 5190            | Ant0    | -1.14               | 0.28             | -0.86           | 11          | Pass    |
| NVNT      | ac40 | 5230            | Ant0    | -1.77               | 0.28             | -1.49           | 11          | Pass    |
| NVNT      | ac80 | 5210            | Ant0    | -6.05               | 0.55             | -5.5            | 11          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 1.53                | 0.13             | 1.66            | 11          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 1.03                | 0.13             | 1.16            | 11          | Pass    |
| NVNT      | a    | 5240            | Ant1    | -0.3                | 0.13             | -0.17           | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 0.61                | 0.14             | 0.75            | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 0.83                | 0.14             | 0.97            | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -0.62               | 0.14             | -0.48           | 11          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -2.36               | 0.28             | -2.08           | 11          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -3.4                | 0.29             | -3.11           | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 1.02                | 0.15             | 1.17            | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 1.03                | 0.14             | 1.17            | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | -0.57               | 0.14             | -0.43           | 11          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -1.76               | 0.28             | -1.48           | 11          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -3.22               | 0.28             | -2.94           | 11          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -5.77               | 0.55             | -5.22           | 11          | Pass    |





MIMO

| Condition | Mode | Frequency (MHz) | Total PSD (dBm/MHz) |       |           | Limit<br>(dBm/MHz) | Verdict |
|-----------|------|-----------------|---------------------|-------|-----------|--------------------|---------|
|           |      |                 | Ant0                | Ant1  | Ant0+Ant1 |                    |         |
| NVNT      | n20  | 5180            | 2.71                | 0.75  | 4.85      | 11                 | Pass    |
| NVNT      | n20  | 5200            | 2.68                | 0.97  | 4.92      | 11                 | Pass    |
| NVNT      | n20  | 5240            | 2.87                | -0.48 | 4.52      | 11                 | Pass    |
| NVNT      | n40  | 5190            | -0.79               | -2.08 | 1.62      | 11                 | Pass    |
| NVNT      | n40  | 5230            | -1.62               | -3.11 | 0.71      | 11                 | Pass    |
| NVNT      | ac20 | 5180            | 2.71                | 1.17  | 5.02      | 11                 | Pass    |
| NVNT      | ac20 | 5200            | 2.42                | 1.17  | 4.85      | 11                 | Pass    |
| NVNT      | ac20 | 5240            | 2.43                | -0.43 | 4.24      | 11                 | Pass    |
| NVNT      | ac40 | 5190            | -0.86               | -1.48 | 1.85      | 11                 | Pass    |
| NVNT      | ac40 | 5230            | -1.49               | -2.94 | 0.86      | 11                 | Pass    |
| NVNT      | ac80 | 5210            | -5.5                | -5.22 | -2.35     | 11                 | Pass    |

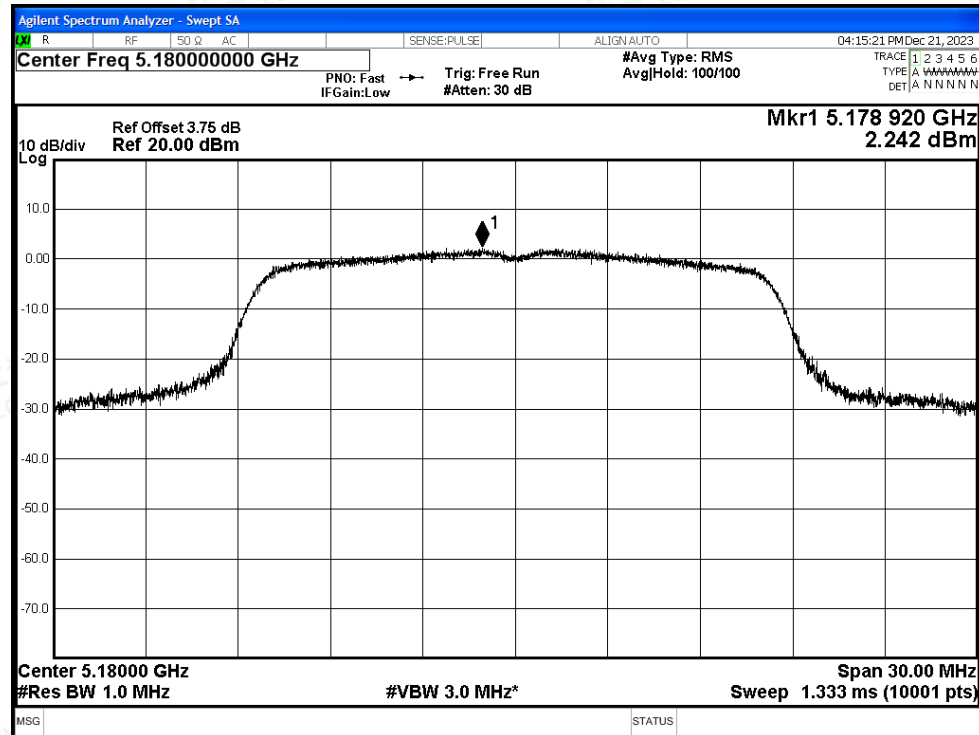


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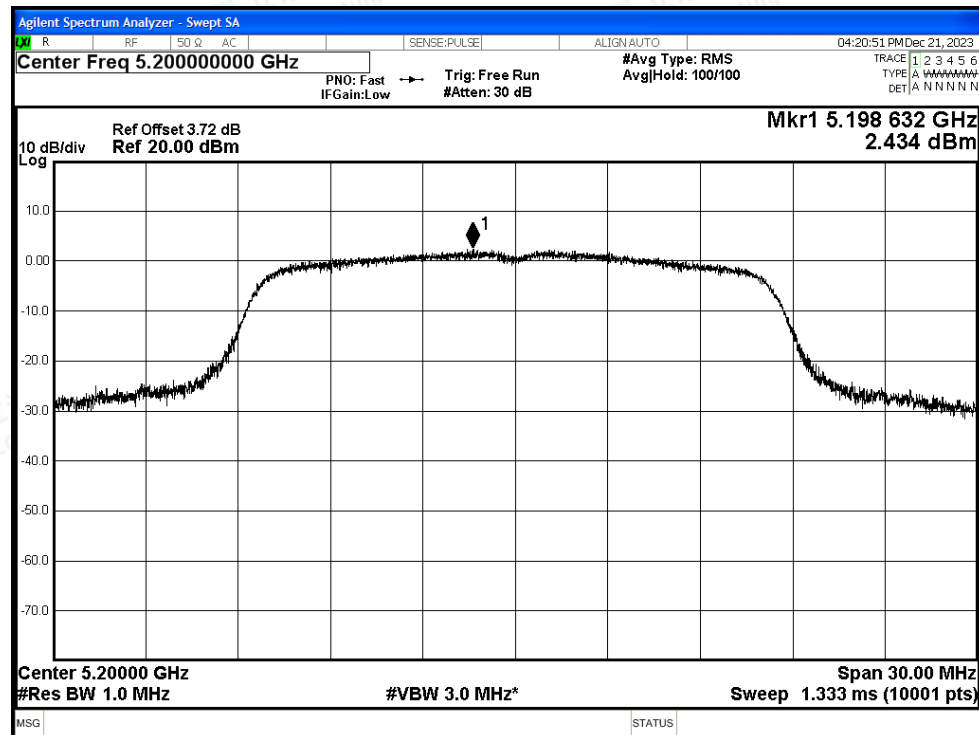


## Test Graphs

PSD NVNT a 5180MHz Ant0

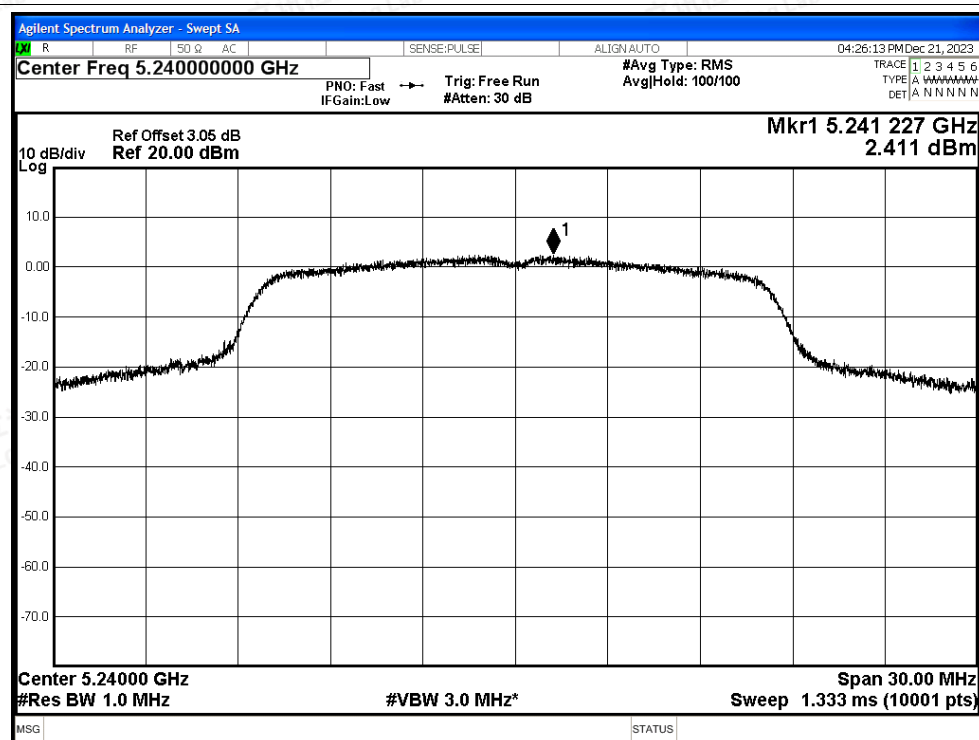


PSD NVNT a 5200MHz Ant0

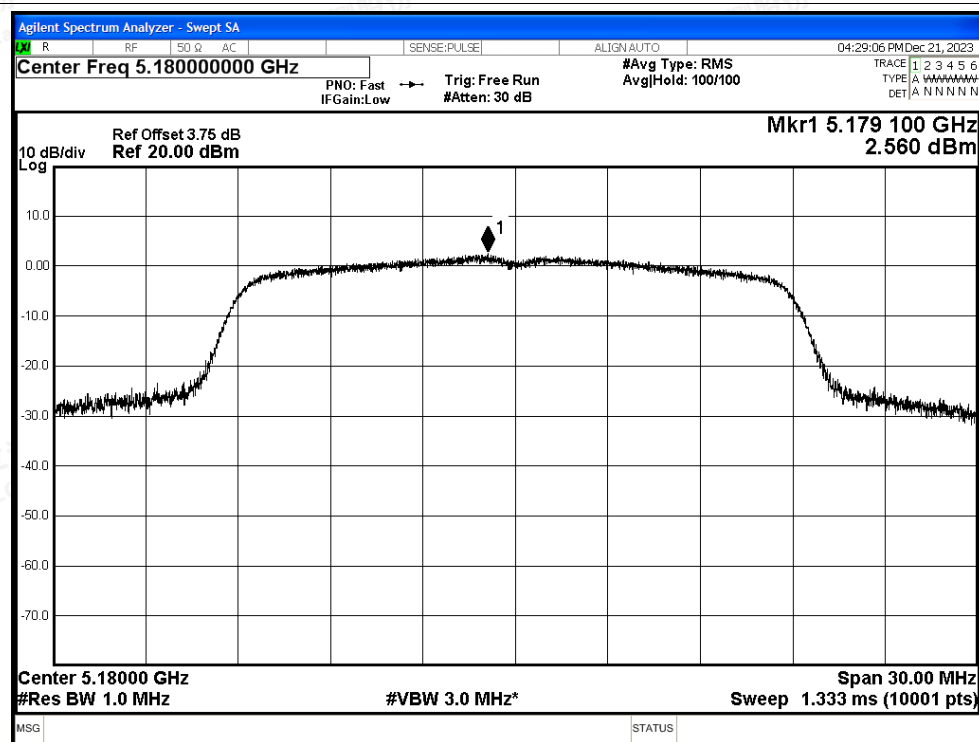


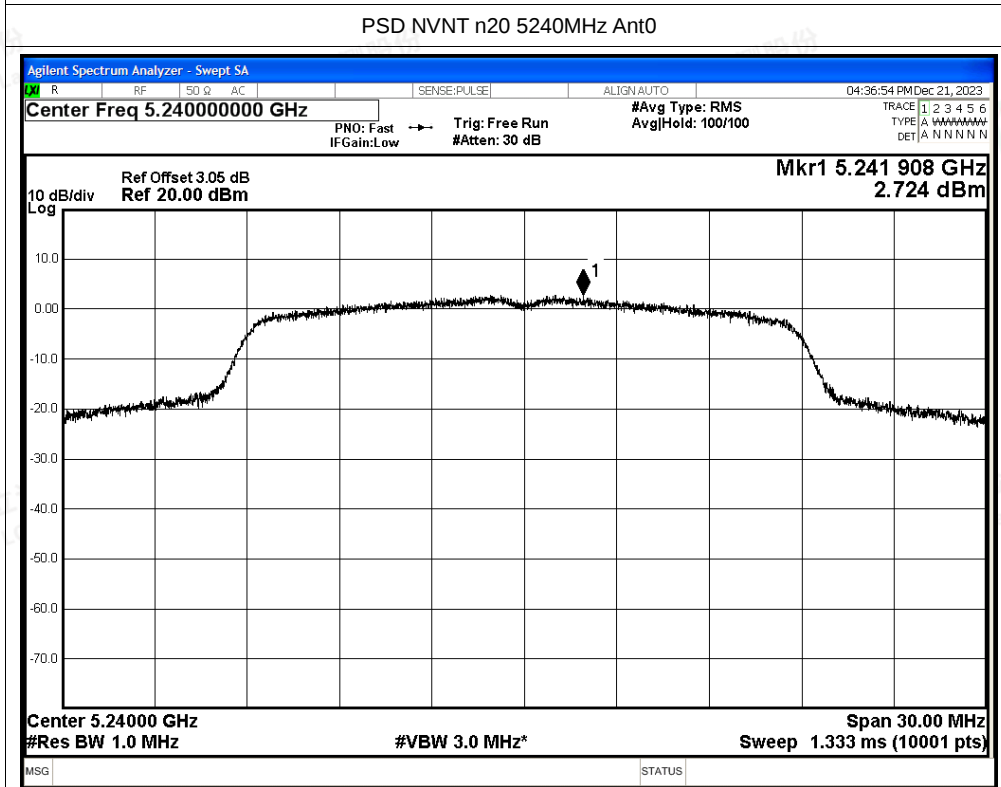
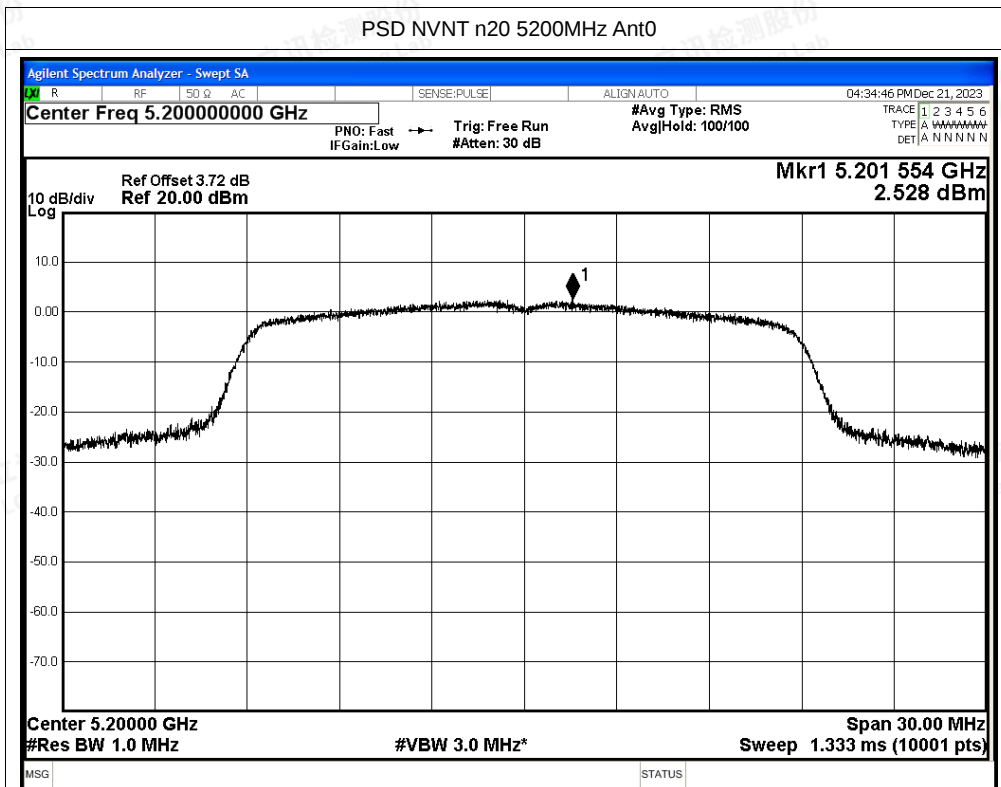


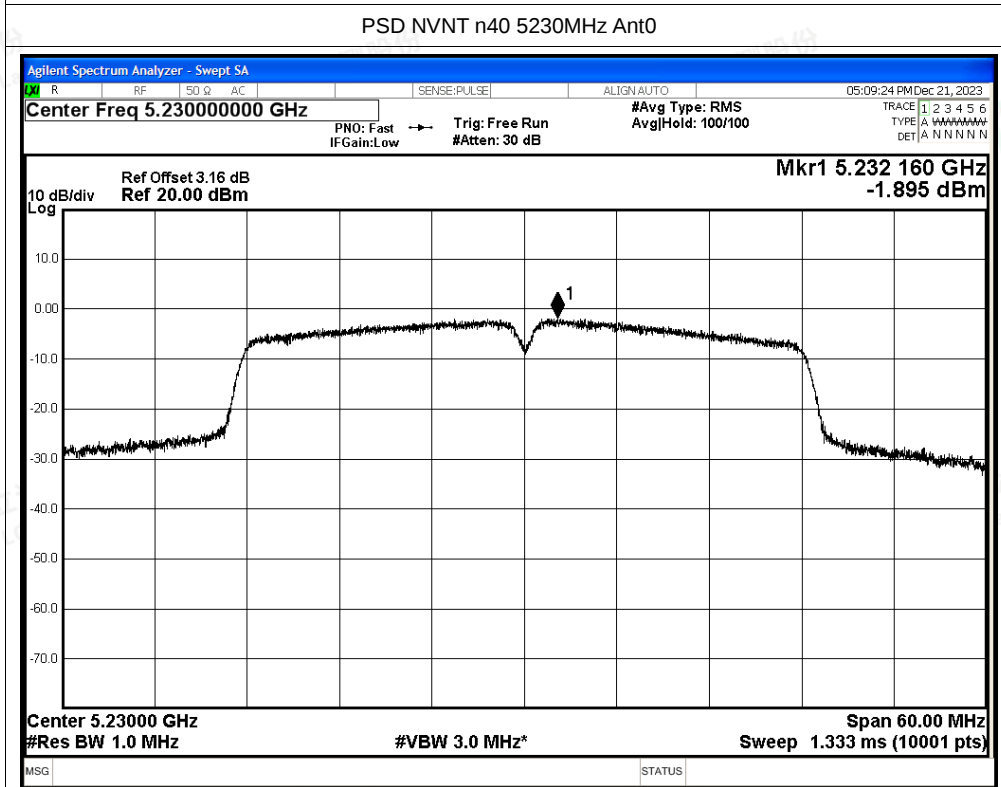
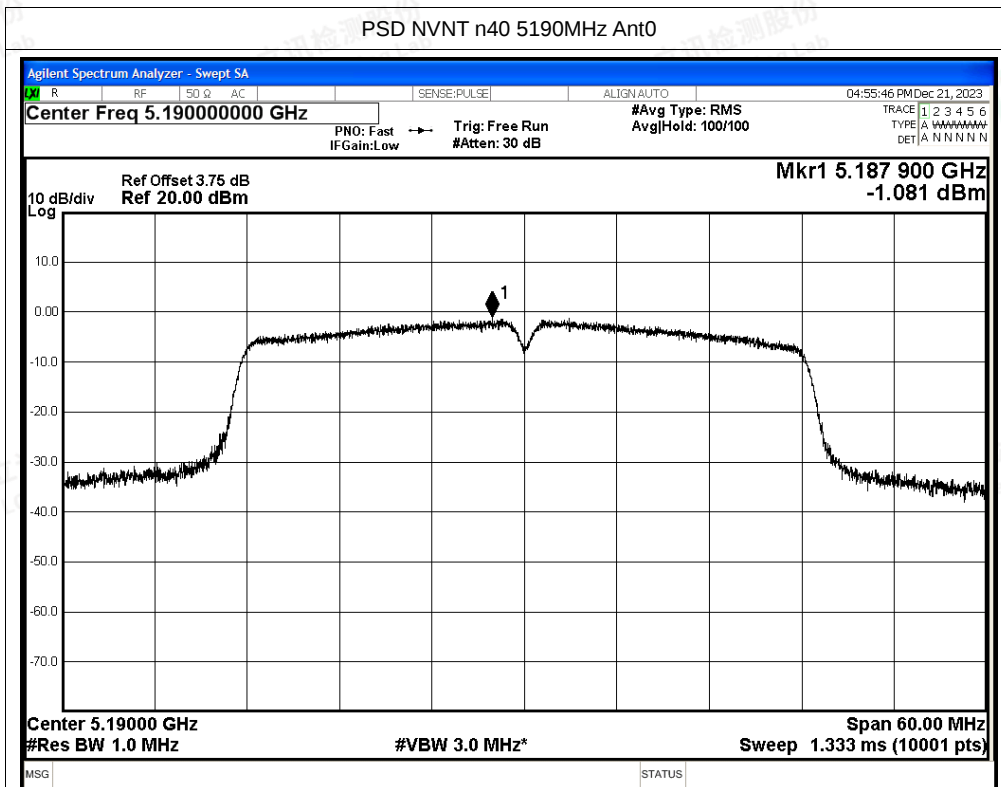
PSD NVNT a 5240MHz Ant0

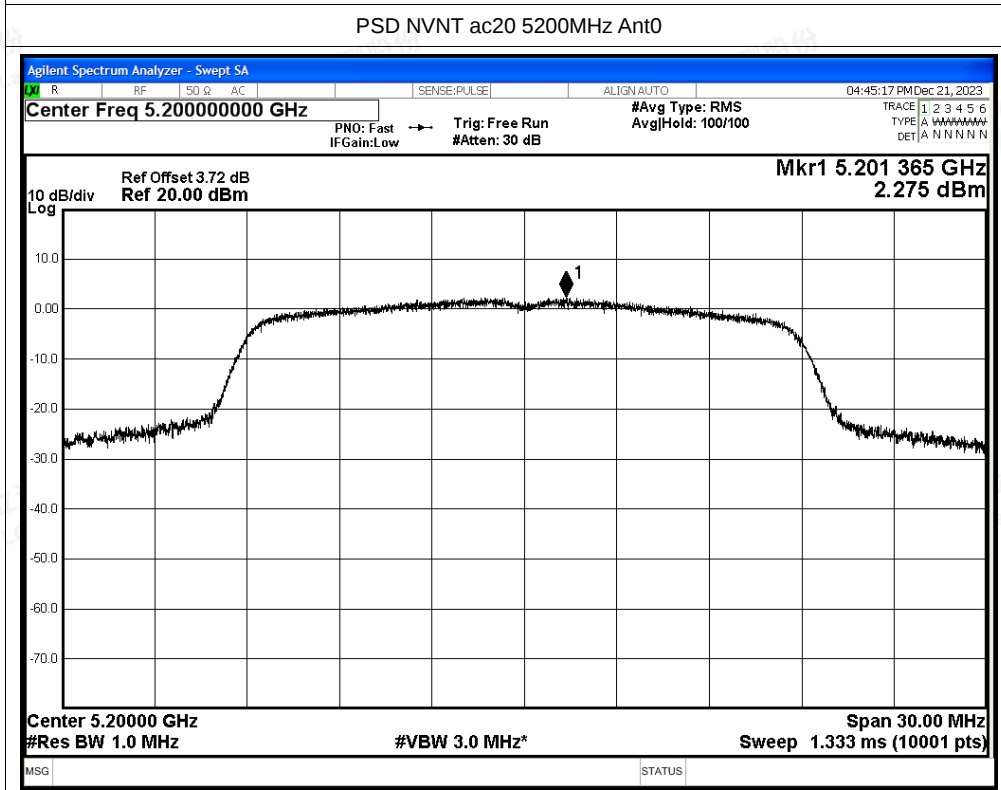
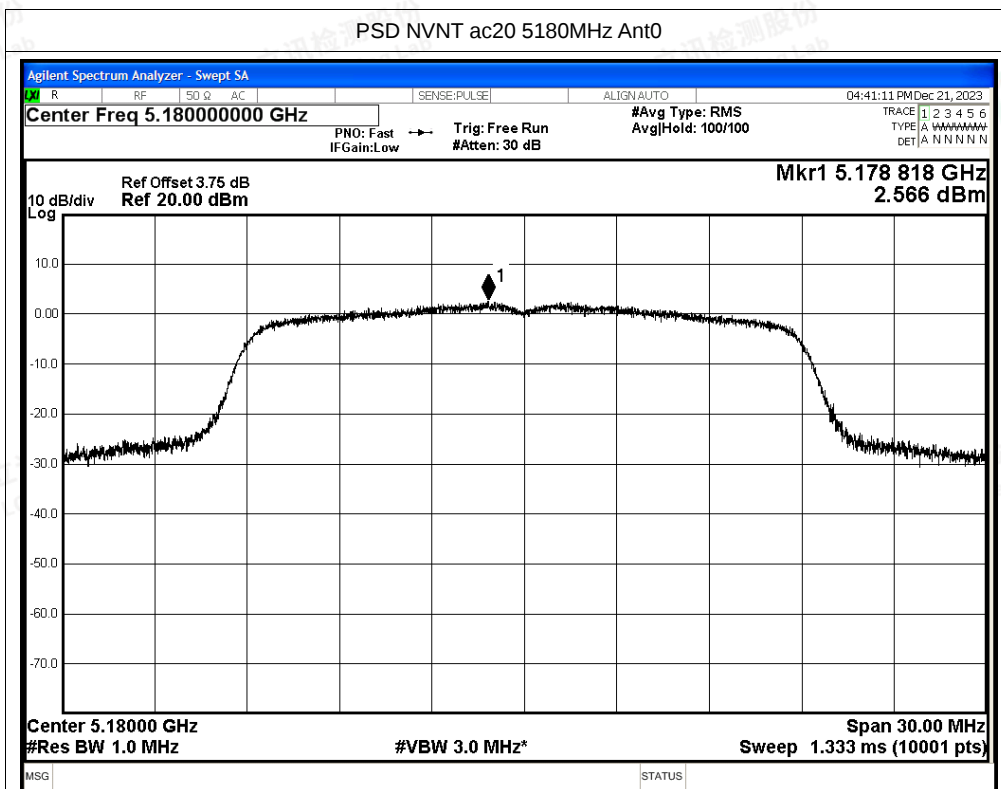


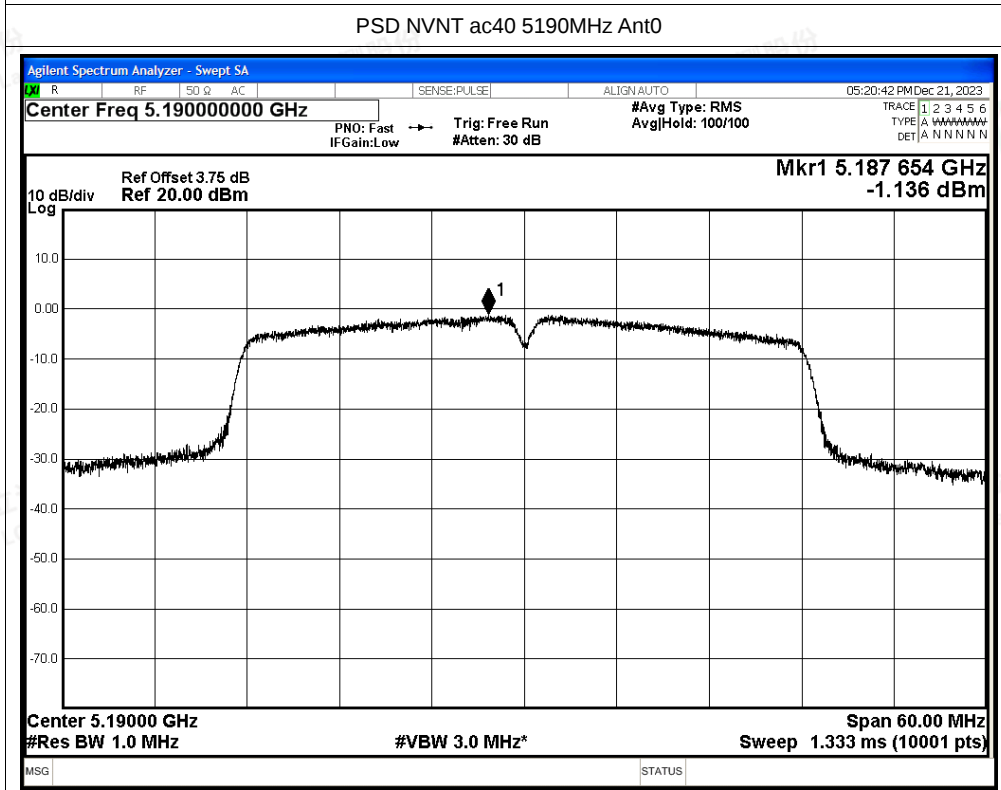
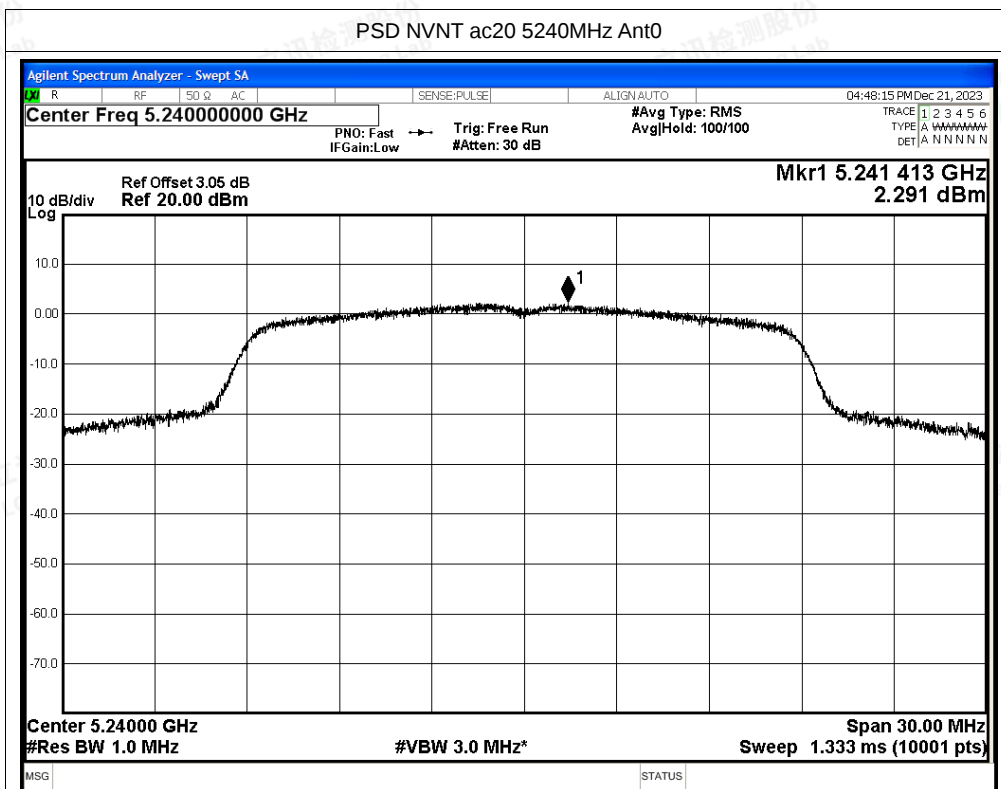
PSD NVNT n20 5180MHz Ant0

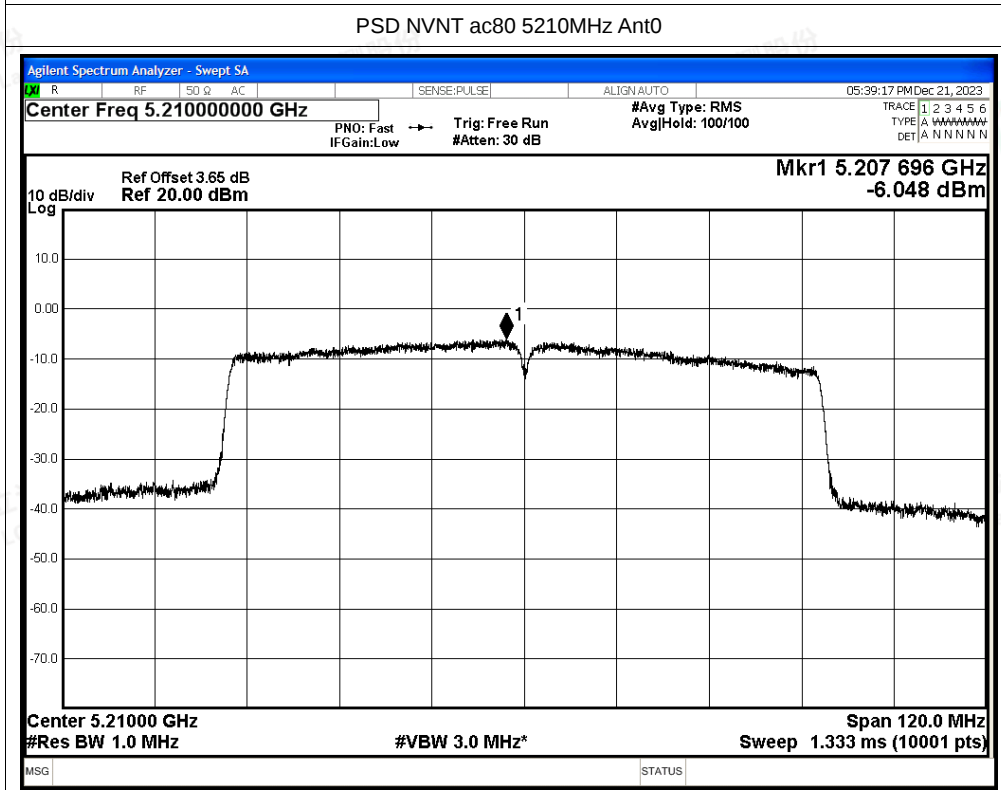
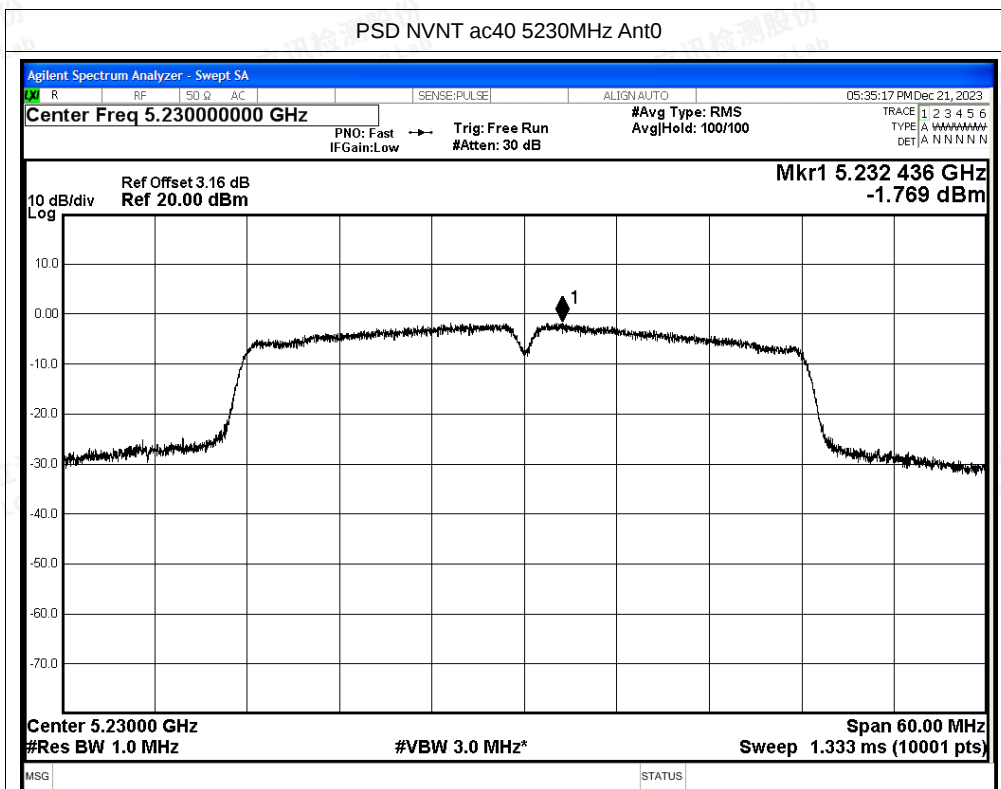








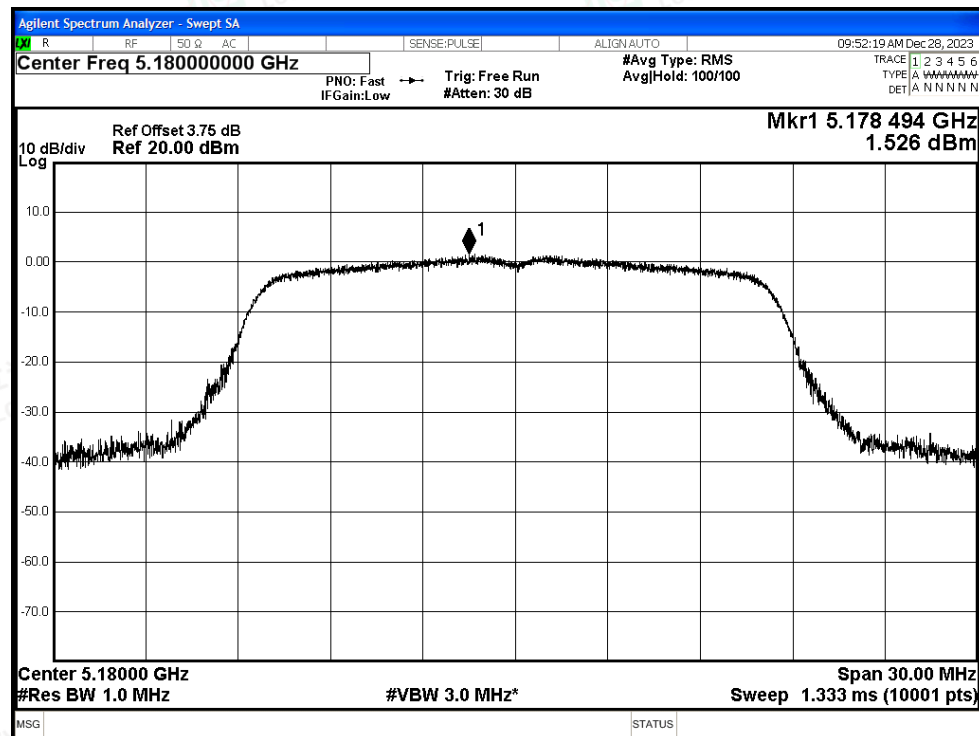




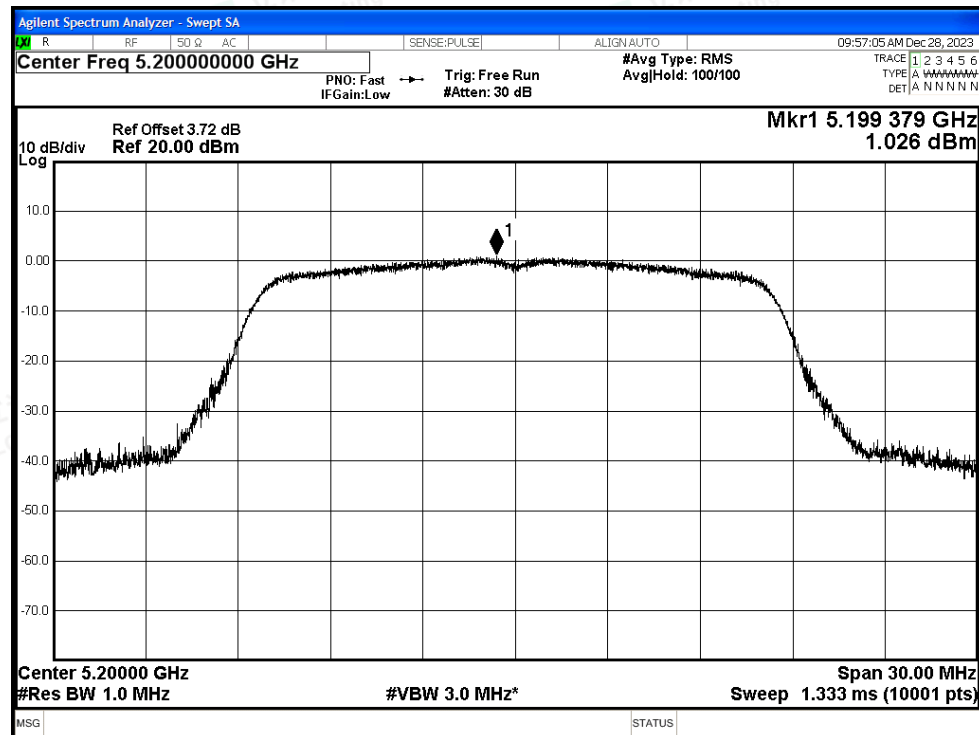


## Test Graphs

PSD NVNT a 5180MHz Ant1

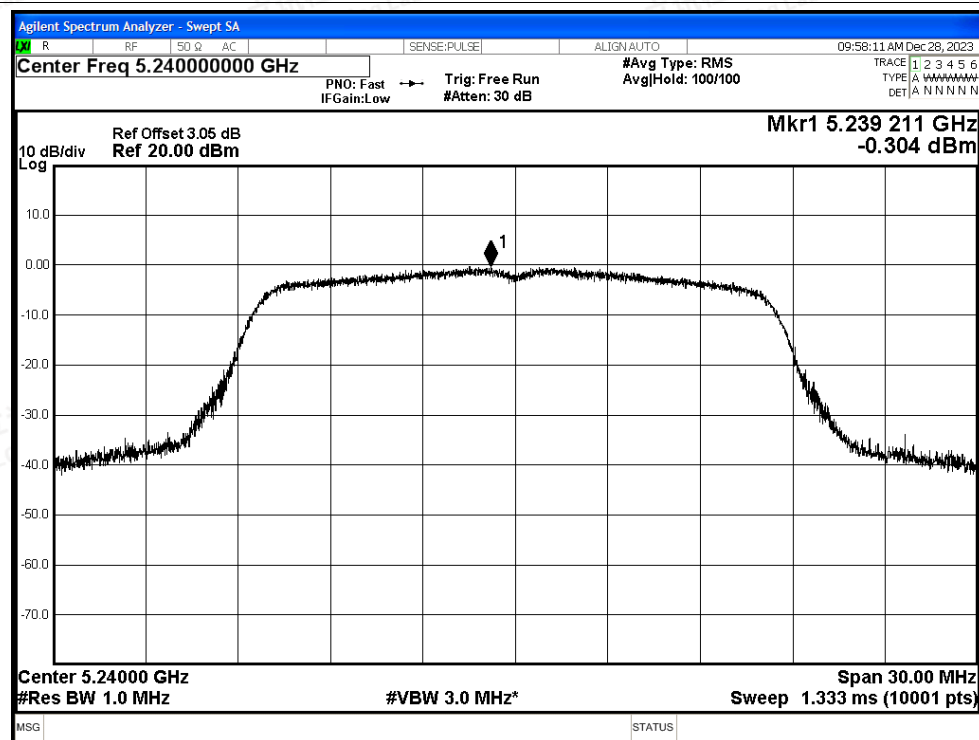


PSD NVNT a 5200MHz Ant1

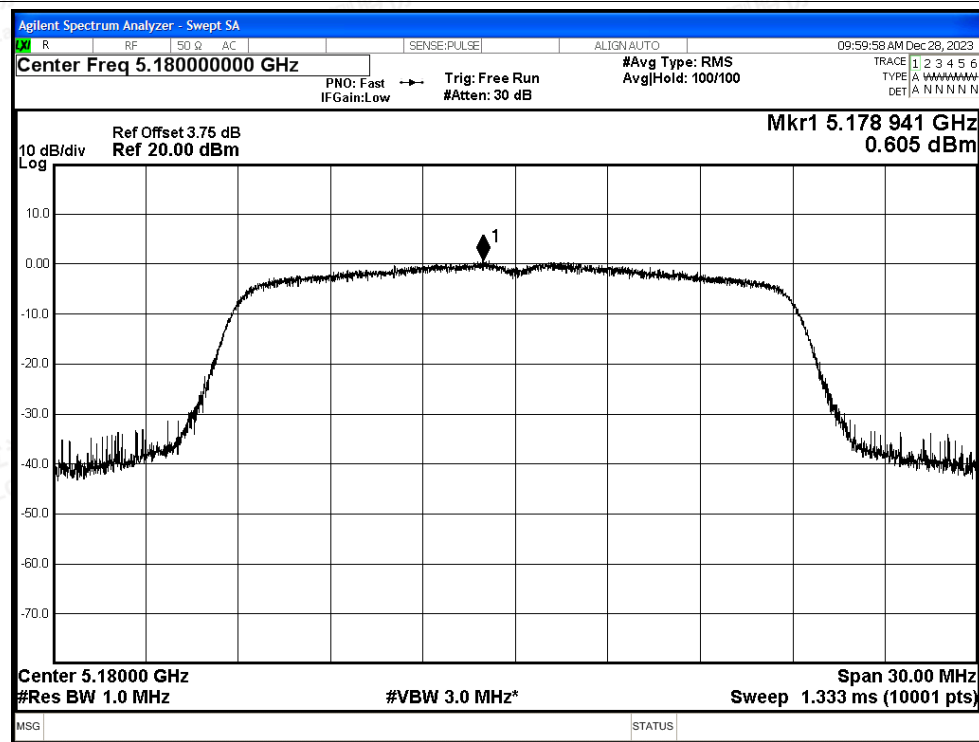


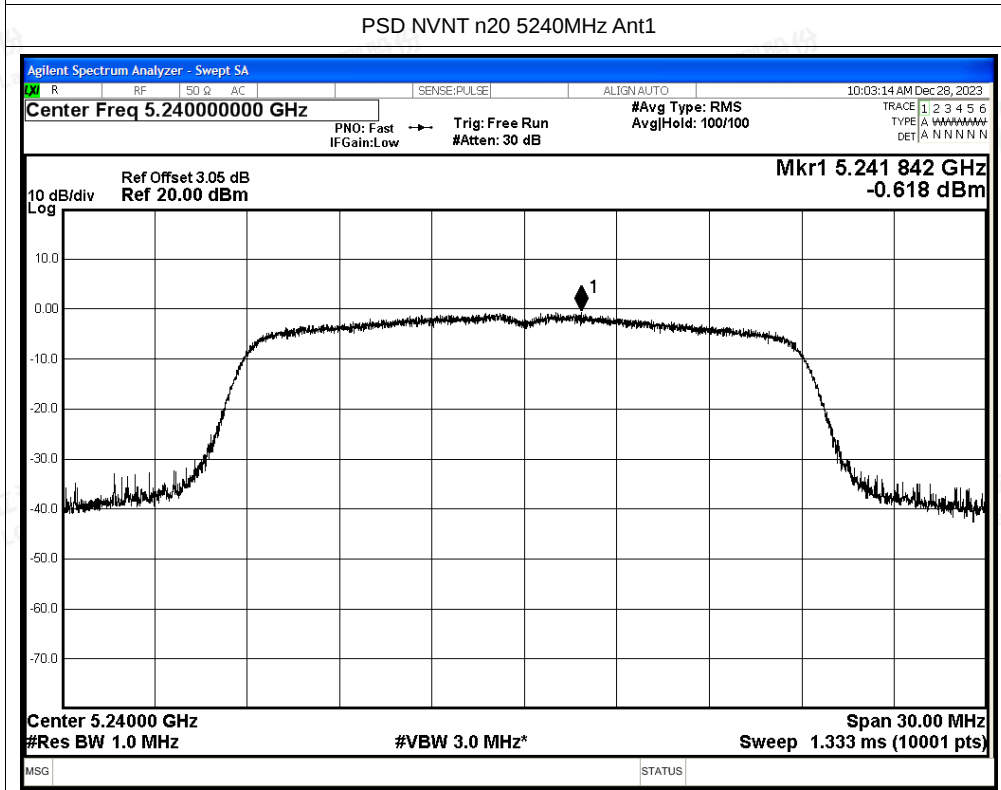
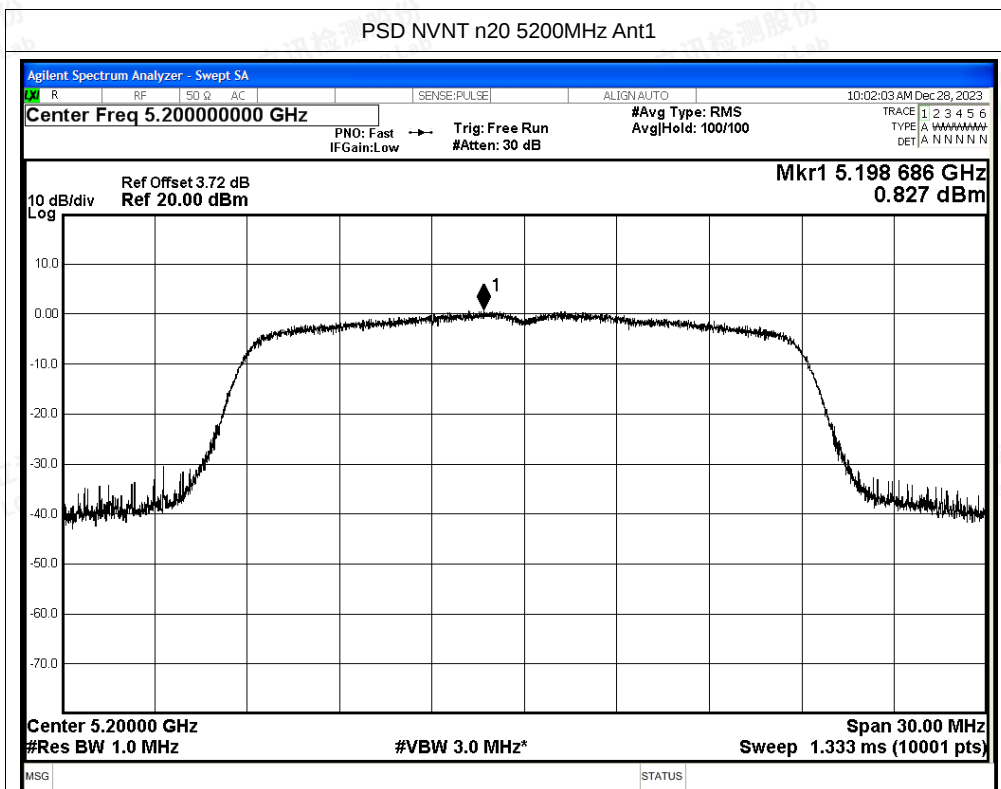


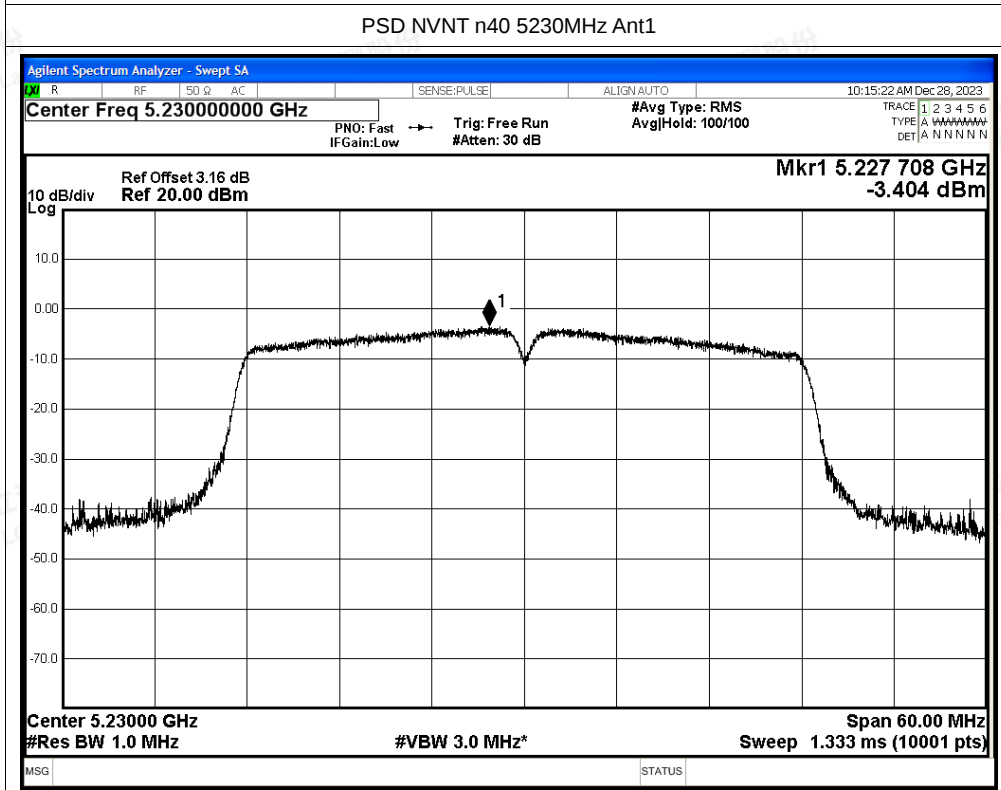
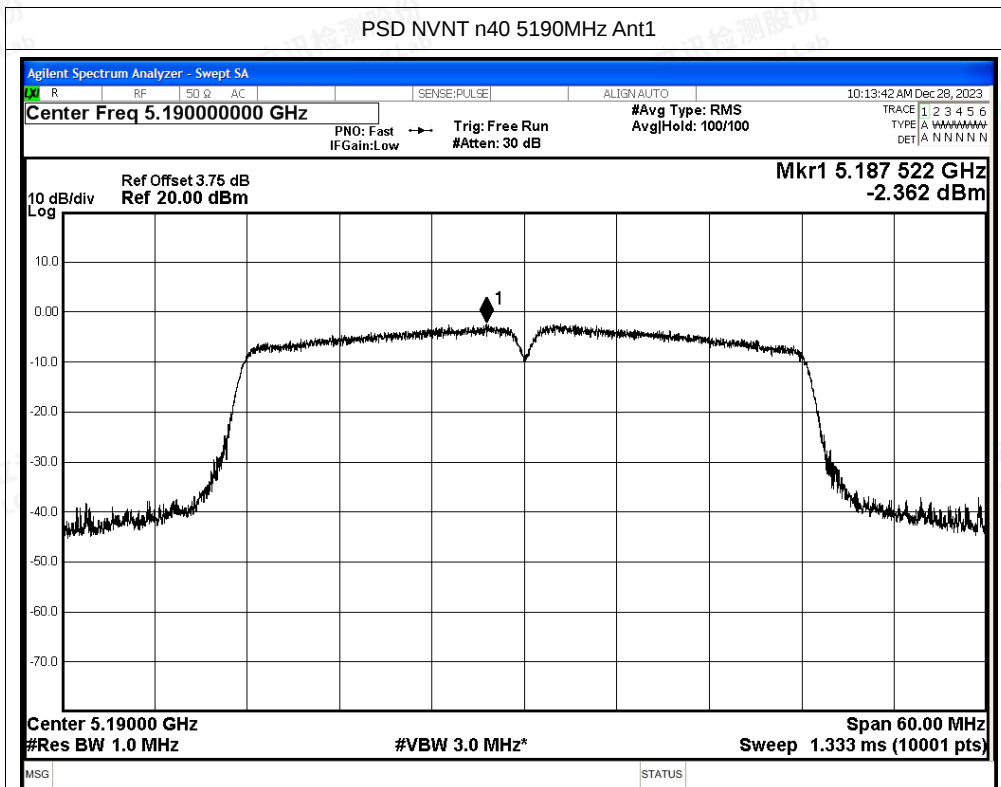
PSD NVNT a 5240MHz Ant1

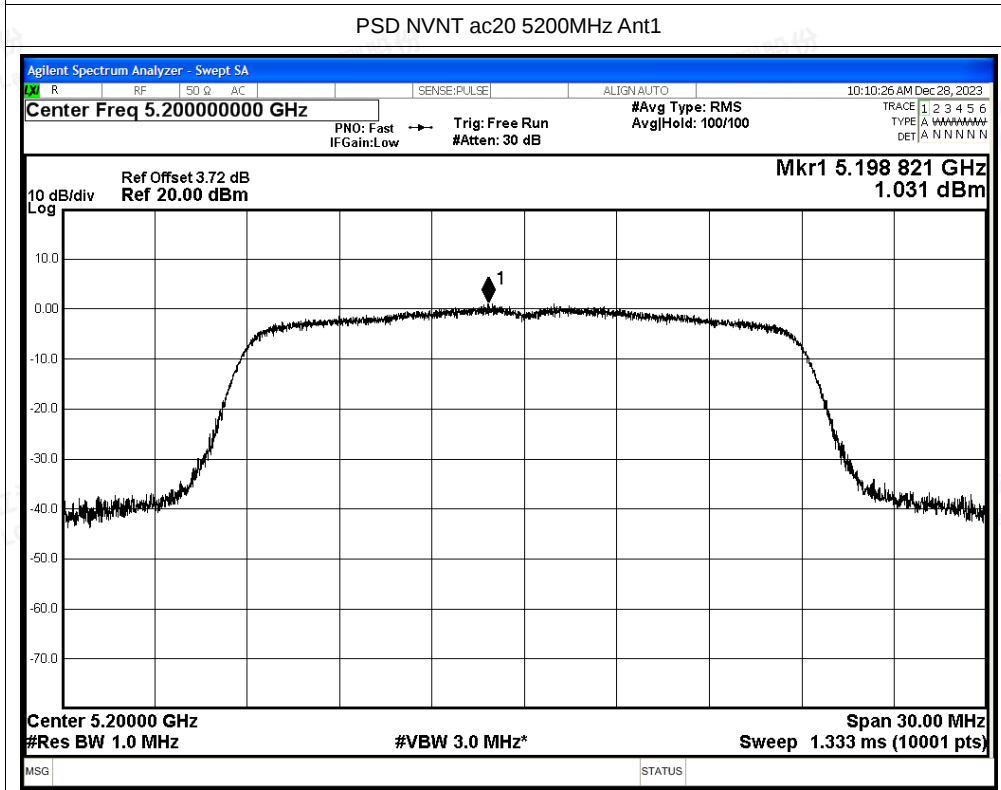
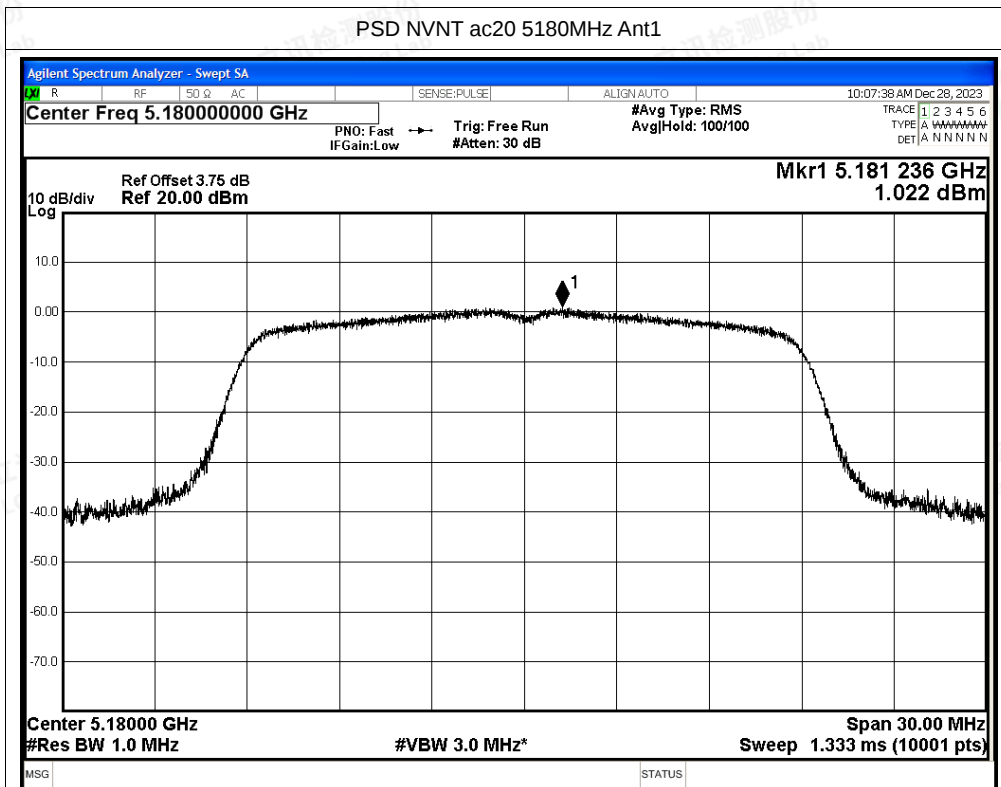


PSD NVNT n20 5180MHz Ant1



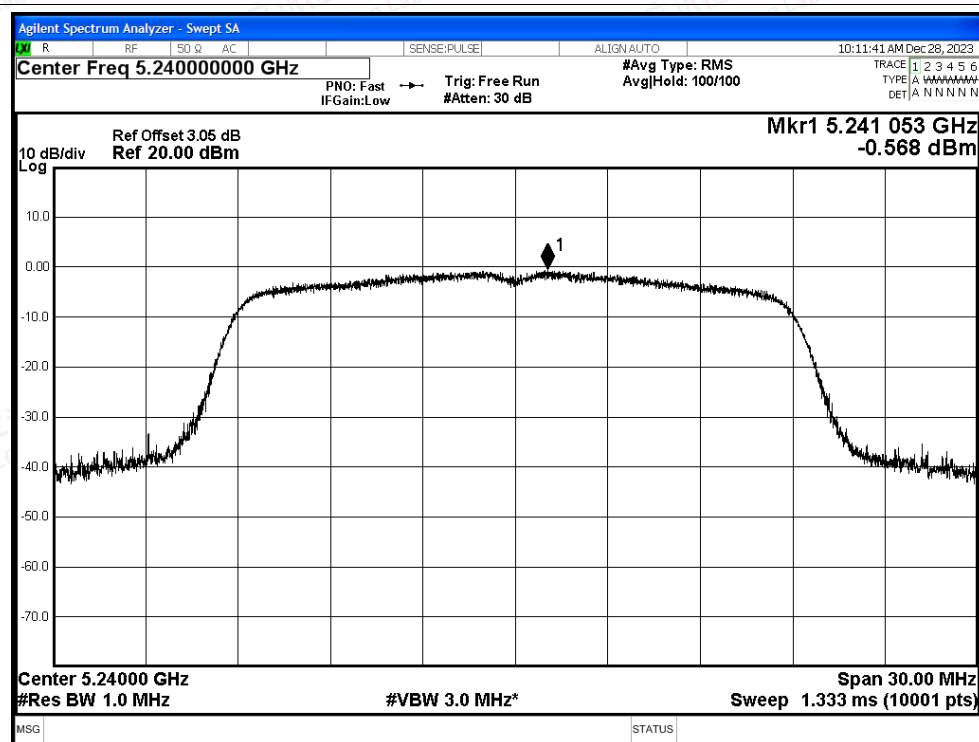




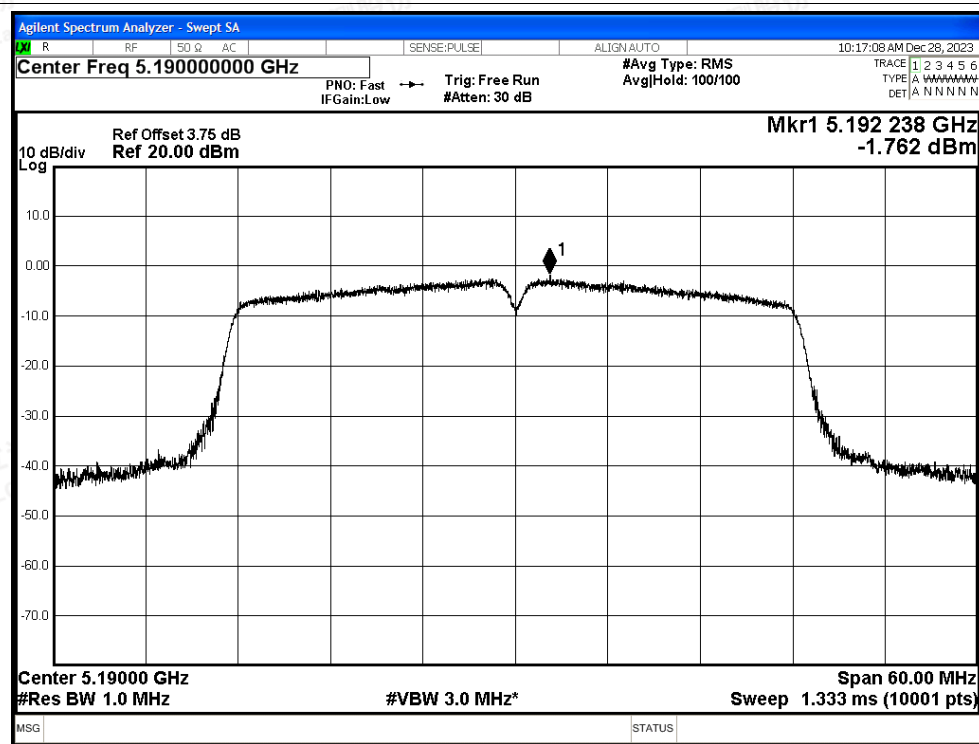


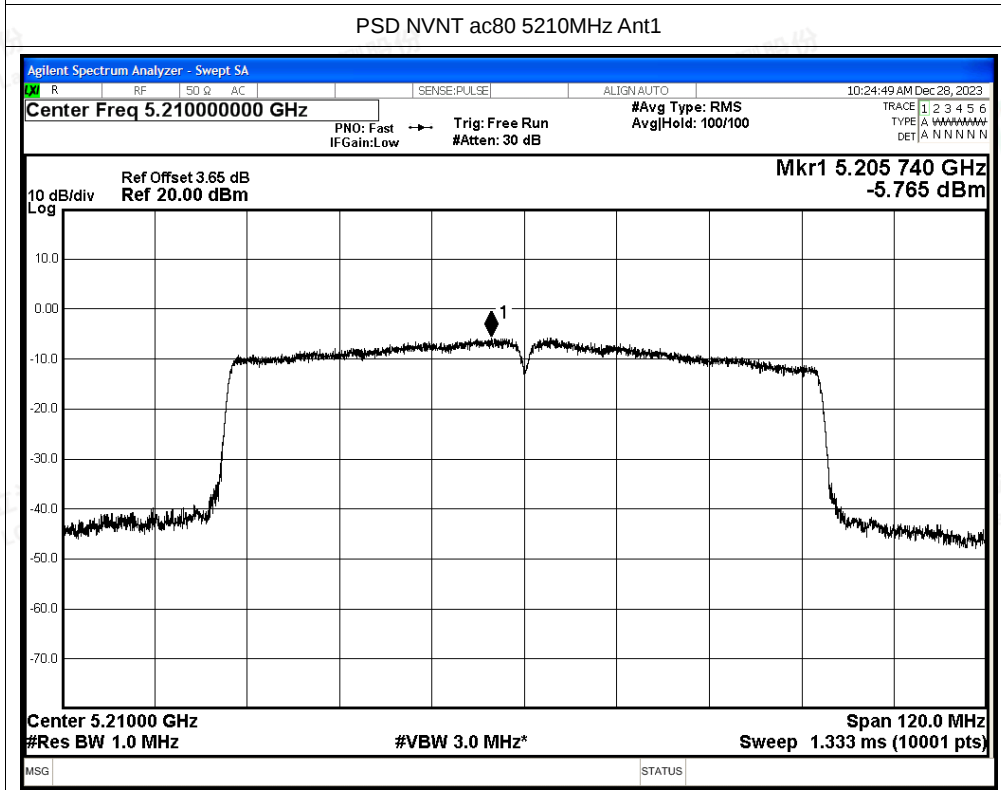
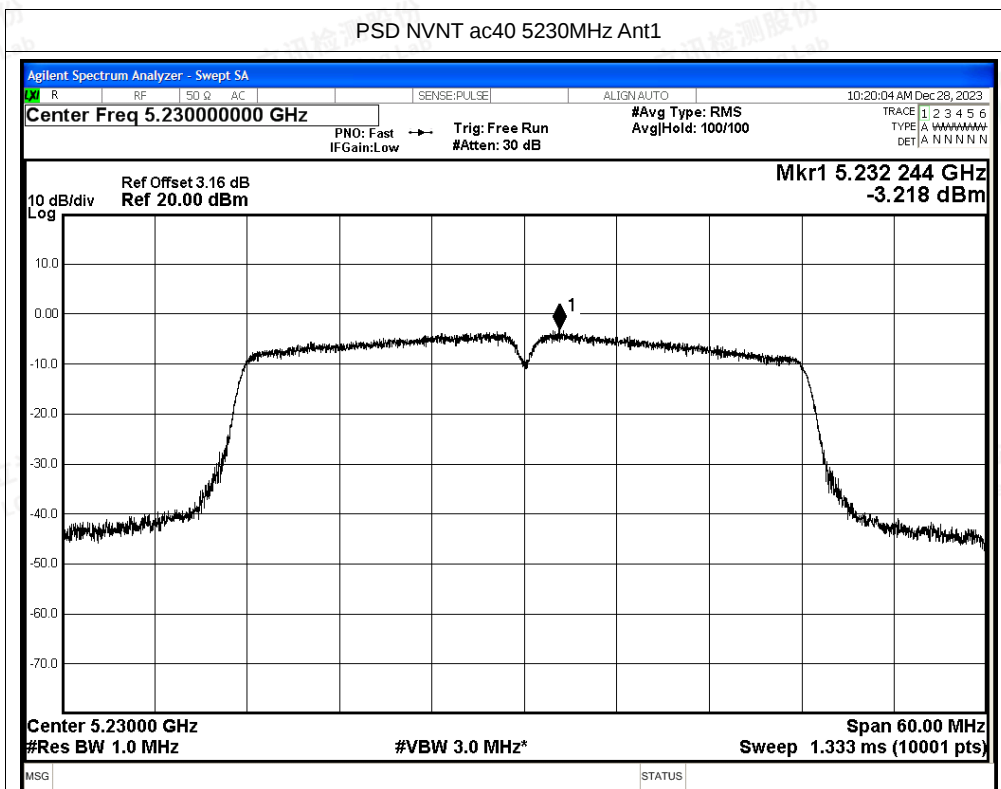


PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1







## D.4 Restrict Band

| Condition | Mode      | Frequency (MHz) | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|-----------|-----------------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT      | a Ant0    | 5180            | 4500            | -49.71      | 2.67       | 48.19      | Peak     | 68.2           | Pass    |
| NVNT      | a Ant0    | 5180            | 4500            | -57.07      | 2.67       | 40.83      | Average  | 54             | Pass    |
| NVNT      | a Ant0    | 5180            | 5148.9          | -34.8       | 2.67       | 63.10      | Peak     | 68.2           | Pass    |
| NVNT      | a Ant0    | 5180            | 5149.6          | -45.01      | 2.67       | 52.89      | Average  | 54             | Pass    |
| NVNT      | a Ant0    | 5180            | 5150            | -34.47      | 2.67       | 63.43      | Peak     | 68.2           | Pass    |
| NVNT      | a Ant0    | 5180            | 5150            | -44.46      | 2.67       | 53.44      | Average  | 54             | Pass    |
| NVNT      | a Ant0    | 5240            | 5350            | -49.27      | 2.67       | 48.63      | Peak     | 68.2           | Pass    |
| NVNT      | a Ant0    | 5240            | 5350            | -56.9       | 2.67       | 41.00      | Average  | 54             | Pass    |
| NVNT      | a Ant0    | 5240            | 5360.64         | -47.47      | 2.67       | 50.43      | Peak     | 68.2           | Pass    |
| NVNT      | a Ant0    | 5240            | 5405.52         | -56.57      | 2.67       | 41.33      | Average  | 54             | Pass    |
| NVNT      | a Ant0    | 5240            | 5460            | -51.02      | 2.67       | 46.88      | Peak     | 68.2           | Pass    |
| NVNT      | a Ant0    | 5240            | 5460            | -57.07      | 2.67       | 40.83      | Average  | 54             | Pass    |
| NVNT      | n20 MIMO  | 5180            | 4500            | -50.32      | 5.68       | 50.59      | Peak     | 68.2           | Pass    |
| NVNT      | n20 MIMO  | 5180            | 4500            | -57.16      | 5.68       | 43.75      | Average  | 54             | Pass    |
| NVNT      | n20 MIMO  | 5180            | 5148.2          | -36.95      | 5.68       | 63.96      | Peak     | 68.2           | Pass    |
| NVNT      | n20 MIMO  | 5180            | 5149.6          | -50.23      | 5.68       | 50.68      | Average  | 54             | Pass    |
| NVNT      | n20 MIMO  | 5180            | 5150            | -38.91      | 5.68       | 62.00      | Peak     | 68.2           | Pass    |
| NVNT      | n20 MIMO  | 5180            | 5150            | -49.12      | 5.68       | 51.79      | Average  | 54             | Pass    |
| NVNT      | n20 MIMO  | 5240            | 5350            | -50.47      | 5.68       | 50.44      | Peak     | 68.2           | Pass    |
| NVNT      | n20 MIMO  | 5240            | 5350            | -55.91      | 5.68       | 45.00      | Average  | 54             | Pass    |
| NVNT      | n20 MIMO  | 5240            | 5406            | -46.77      | 5.68       | 54.14      | Peak     | 68.2           | Pass    |
| NVNT      | n20 MIMO  | 5240            | 5350.08         | -55.91      | 5.68       | 45.00      | Average  | 54             | Pass    |
| NVNT      | n20 MIMO  | 5240            | 5460            | -49.98      | 5.68       | 50.93      | Peak     | 68.2           | Pass    |
| NVNT      | n20 MIMO  | 5240            | 5460            | -57.14      | 5.68       | 43.77      | Average  | 54             | Pass    |
| NVNT      | n40 MIMO  | 5190            | 4500            | -49.67      | 5.68       | 51.24      | Peak     | 68.2           | Pass    |
| NVNT      | n40 MIMO  | 5190            | 4500            | -56.97      | 5.68       | 43.94      | Average  | 54             | Pass    |
| NVNT      | n40 MIMO  | 5190            | 5148.97         | -32.77      | 5.68       | 68.14      | Peak     | 68.2           | Pass    |
| NVNT      | n40 MIMO  | 5190            | 5148.97         | -47.21      | 5.68       | 53.70      | Average  | 54             | Pass    |
| NVNT      | n40 MIMO  | 5190            | 5150            | -35.03      | 5.68       | 65.88      | Peak     | 68.2           | Pass    |
| NVNT      | n40 MIMO  | 5190            | 5150            | -49.65      | 5.68       | 51.26      | Average  | 54             | Pass    |
| NVNT      | n40 MIMO  | 5230            | 5350            | -49.39      | 5.68       | 51.52      | Peak     | 68.2           | Pass    |
| NVNT      | n40 MIMO  | 5230            | 5350            | -56.06      | 5.68       | 44.85      | Average  | 54             | Pass    |
| NVNT      | n40 MIMO  | 5230            | 5409.24         | -46.43      | 5.68       | 54.48      | Peak     | 68.2           | Pass    |
| NVNT      | n40 MIMO  | 5230            | 5352.27         | -55.66      | 5.68       | 45.25      | Average  | 54             | Pass    |
| NVNT      | n40 MIMO  | 5230            | 5460            | -50.67      | 5.68       | 50.24      | Peak     | 68.2           | Pass    |
| NVNT      | n40 MIMO  | 5230            | 5460            | -56.82      | 5.68       | 44.09      | Average  | 54             | Pass    |
| NVNT      | ac20 MIMO | 5180            | 4500            | -51.52      | 5.68       | 49.39      | Peak     | 68.2           | Pass    |



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|      |           |      |         |        |      |       |         |      |      |
|------|-----------|------|---------|--------|------|-------|---------|------|------|
| NVNT | ac20 MIMO | 5180 | 4500    | -57.12 | 5.68 | 43.79 | Average | 54   | Pass |
| NVNT | ac20 MIMO | 5180 | 5148.2  | -36.94 | 5.68 | 63.97 | Peak    | 68.2 | Pass |
| NVNT | ac20 MIMO | 5180 | 5149.6  | -46.99 | 5.68 | 53.92 | Average | 54   | Pass |
| NVNT | ac20 MIMO | 5180 | 5150    | -38.16 | 5.68 | 62.75 | Peak    | 68.2 | Pass |
| NVNT | ac20 MIMO | 5180 | 5150    | -49.23 | 5.68 | 51.68 | Average | 54   | Pass |
| NVNT | ac20 MIMO | 5240 | 5350    | -48.91 | 5.68 | 52.00 | Peak    | 68.2 | Pass |
| NVNT | ac20 MIMO | 5240 | 5350    | -56.8  | 5.68 | 44.11 | Average | 54   | Pass |
| NVNT | ac20 MIMO | 5240 | 5400.96 | -47.24 | 5.68 | 53.67 | Peak    | 68.2 | Pass |
| NVNT | ac20 MIMO | 5240 | 5408.4  | -56.47 | 5.68 | 44.44 | Average | 54   | Pass |
| NVNT | ac20 MIMO | 5240 | 5460    | -49.41 | 5.68 | 51.50 | Peak    | 68.2 | Pass |
| NVNT | ac20 MIMO | 5240 | 5460    | -56.99 | 5.68 | 43.92 | Average | 54   | Pass |
| NVNT | ac40 MIMO | 5190 | 4500    | -50.48 | 5.68 | 50.43 | Peak    | 68.2 | Pass |
| NVNT | ac40 MIMO | 5190 | 4500    | -56.82 | 5.68 | 44.09 | Average | 54   | Pass |
| NVNT | ac40 MIMO | 5190 | 5146.05 | -34.8  | 5.68 | 66.11 | Peak    | 68.2 | Pass |
| NVNT | ac40 MIMO | 5190 | 5149.7  | -48.23 | 5.68 | 52.68 | Average | 54   | Pass |
| NVNT | ac40 MIMO | 5190 | 5150    | -35.81 | 5.68 | 65.10 | Peak    | 68.2 | Pass |
| NVNT | ac40 MIMO | 5190 | 5150    | -48.12 | 5.68 | 52.79 | Average | 54   | Pass |
| NVNT | ac40 MIMO | 5230 | 5350    | -48.81 | 5.68 | 52.10 | Peak    | 68.2 | Pass |
| NVNT | ac40 MIMO | 5230 | 5350    | -56.15 | 5.68 | 44.76 | Average | 54   | Pass |
| NVNT | ac40 MIMO | 5230 | 5398.44 | -47.01 | 5.68 | 53.90 | Peak    | 68.2 | Pass |
| NVNT | ac40 MIMO | 5230 | 5352.81 | -55.85 | 5.68 | 45.06 | Average | 54   | Pass |
| NVNT | ac40 MIMO | 5230 | 5460    | -49.81 | 5.68 | 51.10 | Peak    | 68.2 | Pass |
| NVNT | ac40 MIMO | 5230 | 5460    | -56.87 | 5.68 | 44.04 | Average | 54   | Pass |
| NVNT | ac80 MIMO | 5210 | 5350    | -47.14 | 5.68 | 53.77 | Peak    | 68.2 | Pass |
| NVNT | ac80 MIMO | 5210 | 5350    | -54.02 | 5.68 | 46.89 | Average | 54   | Pass |
| NVNT | ac80 MIMO | 5210 | 5351.1  | -44.14 | 5.68 | 56.77 | Peak    | 68.2 | Pass |
| NVNT | ac80 MIMO | 5210 | 5350.77 | -53.36 | 5.68 | 47.55 | Average | 54   | Pass |
| NVNT | ac80 MIMO | 5210 | 5460    | -49.15 | 5.68 | 51.76 | Peak    | 68.2 | Pass |
| NVNT | ac80 MIMO | 5210 | 5460    | -55.91 | 5.68 | 45.00 | Average | 54   | Pass |
| NVNT | ac80 MIMO | 5210 | 4500    | -49.67 | 5.68 | 51.24 | Peak    | 68.2 | Pass |
| NVNT | ac80 MIMO | 5210 | 4500    | -56.68 | 5.68 | 44.23 | Average | 54   | Pass |
| NVNT | ac80 MIMO | 5210 | 5149.38 | -35.93 | 5.68 | 64.98 | Peak    | 68.2 | Pass |
| NVNT | ac80 MIMO | 5210 | 5146.22 | -48.32 | 5.68 | 52.59 | Average | 54   | Pass |
| NVNT | ac80 MIMO | 5210 | 5150    | -37    | 5.68 | 63.91 | Peak    | 68.2 | Pass |
| NVNT | ac80 MIMO | 5210 | 5150    | -47.52 | 5.68 | 53.39 | Average | 54   | Pass |

Note: 802.11a mode, only show the worst set of antenna data.

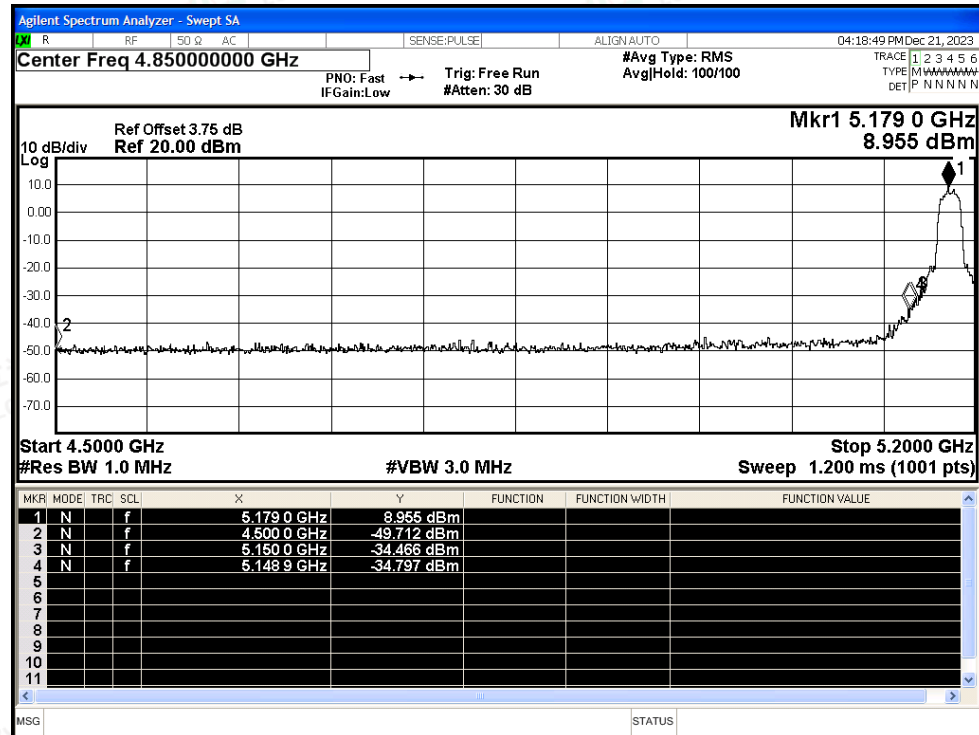


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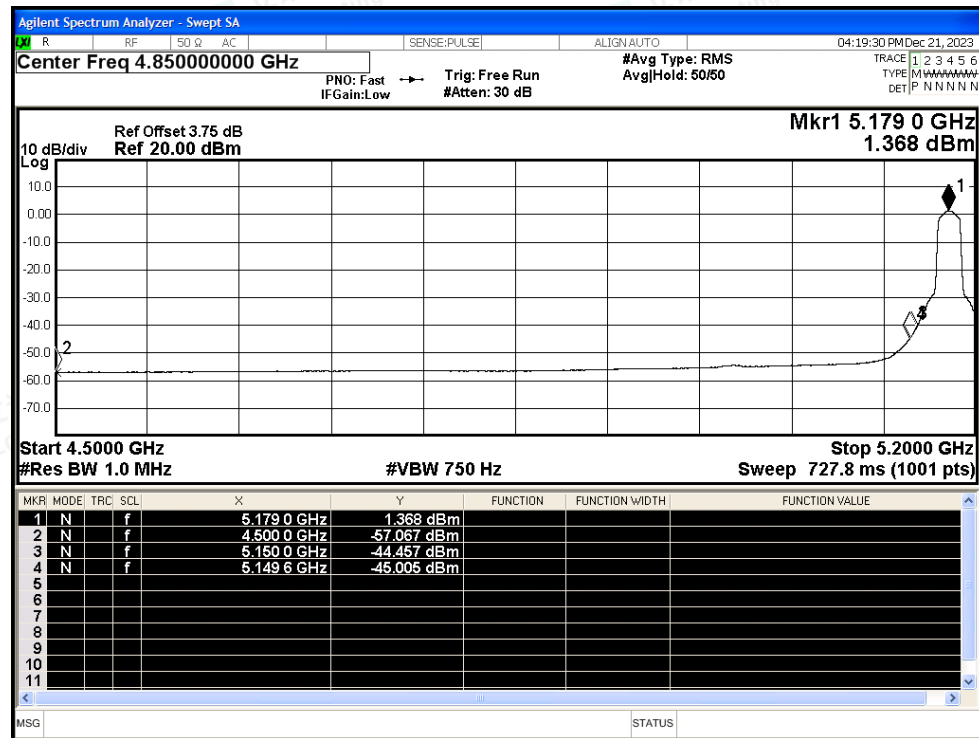


## Test Graphs

## Restrict Band NVNT a 5180MHz Ant0 Peak

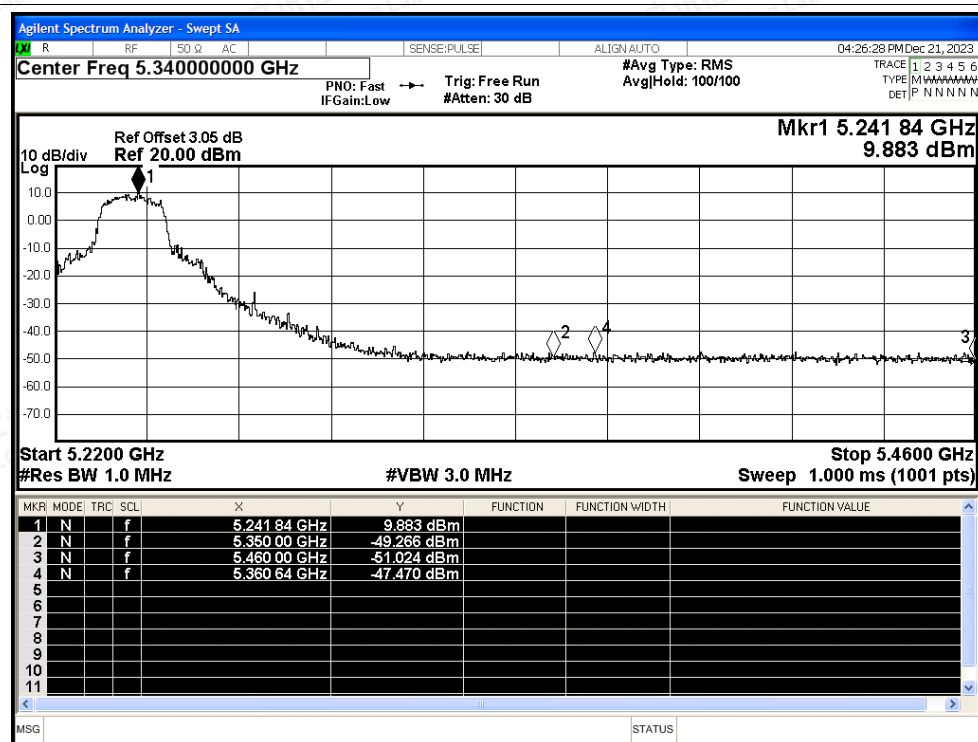


## Restrict Band NVNT a 5180MHz Ant0 Average

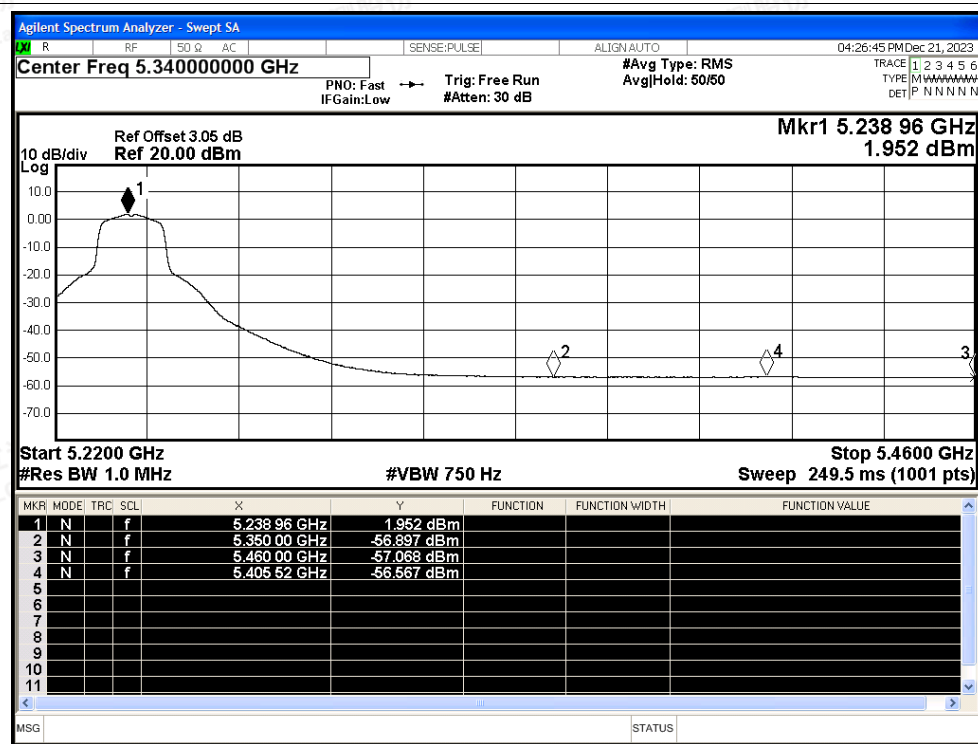




## Restrict Band NVNT a 5240MHz Ant0 Peak



## Restrict Band NVNT a 5240MHz Ant0 Average



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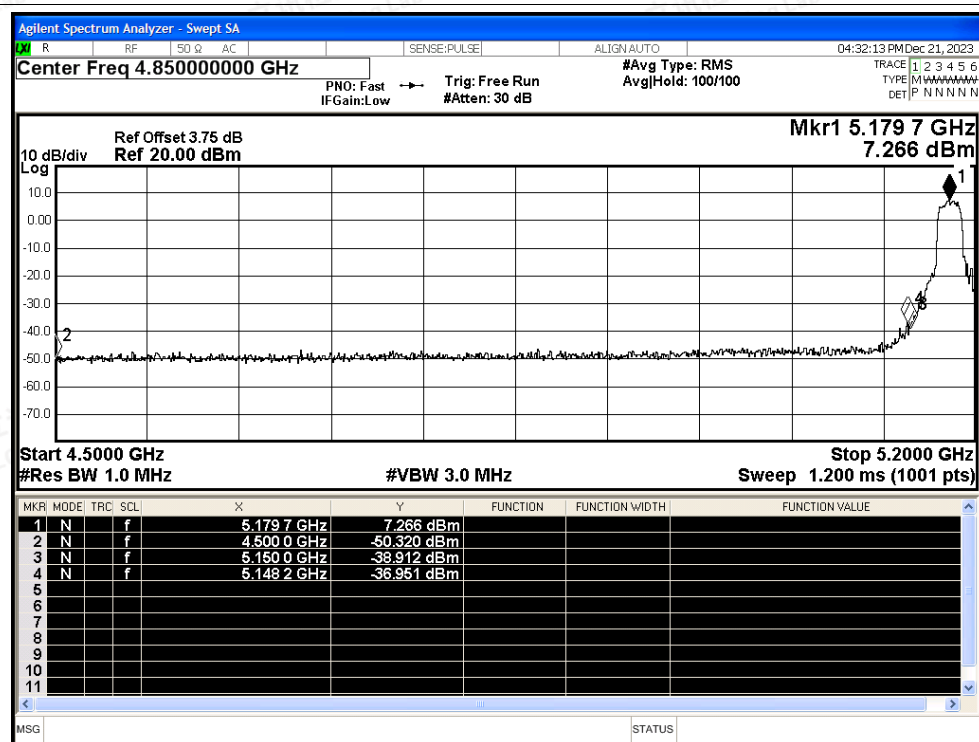
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

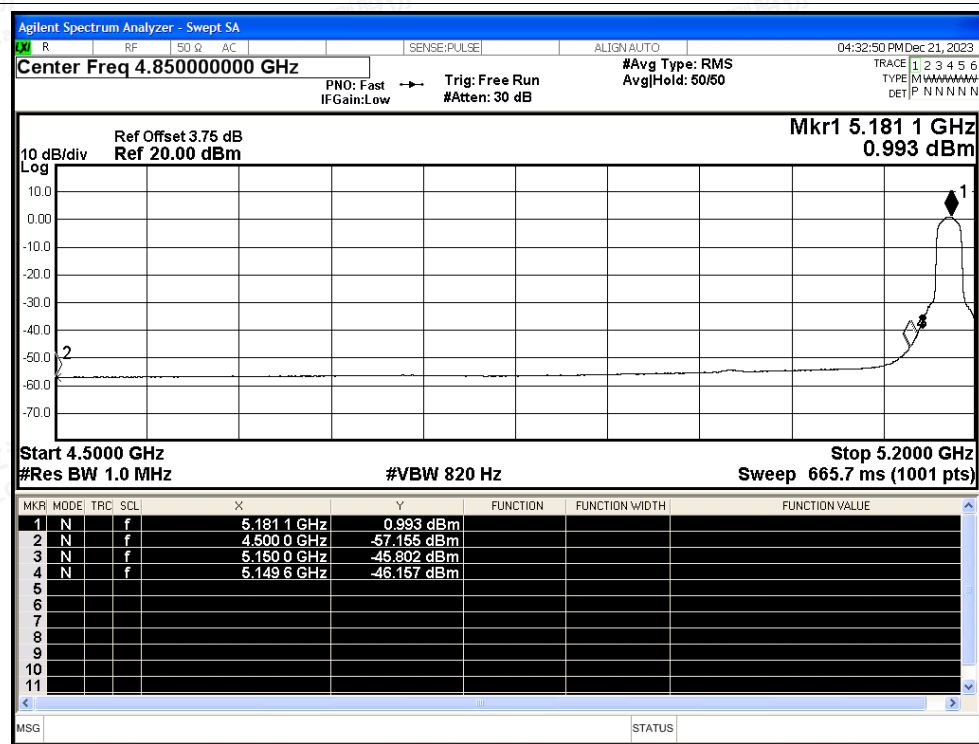
Scan code to check authenticity



## Restrict Band NVNT n20 5180MHz MIMO Peak



## Restrict Band NVNT n20 5180MHz MIMO Average



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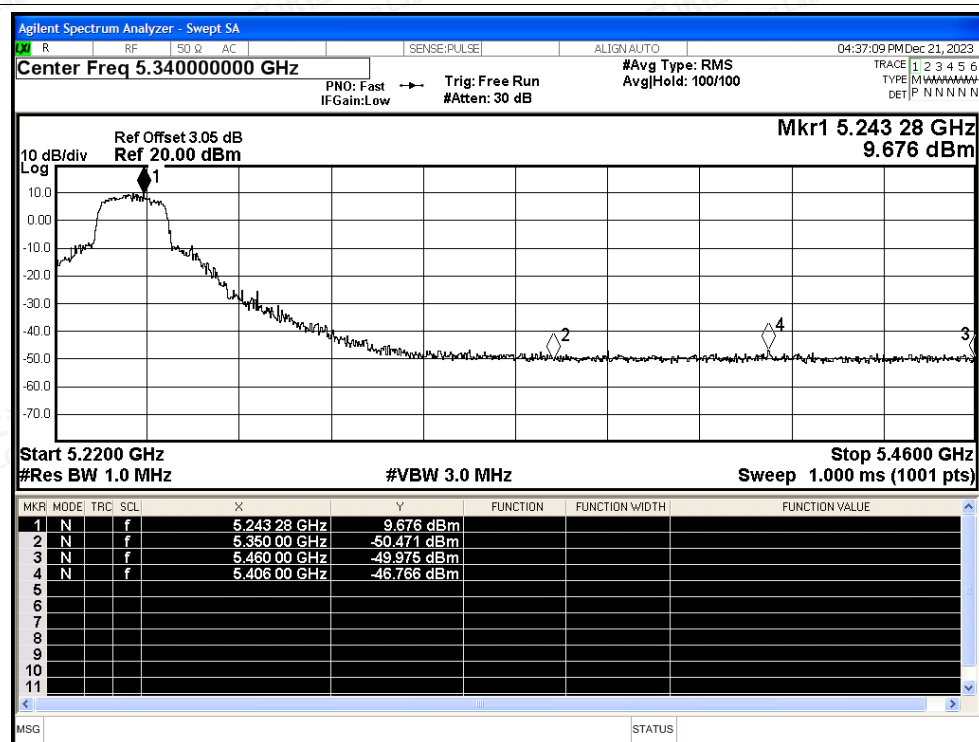
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

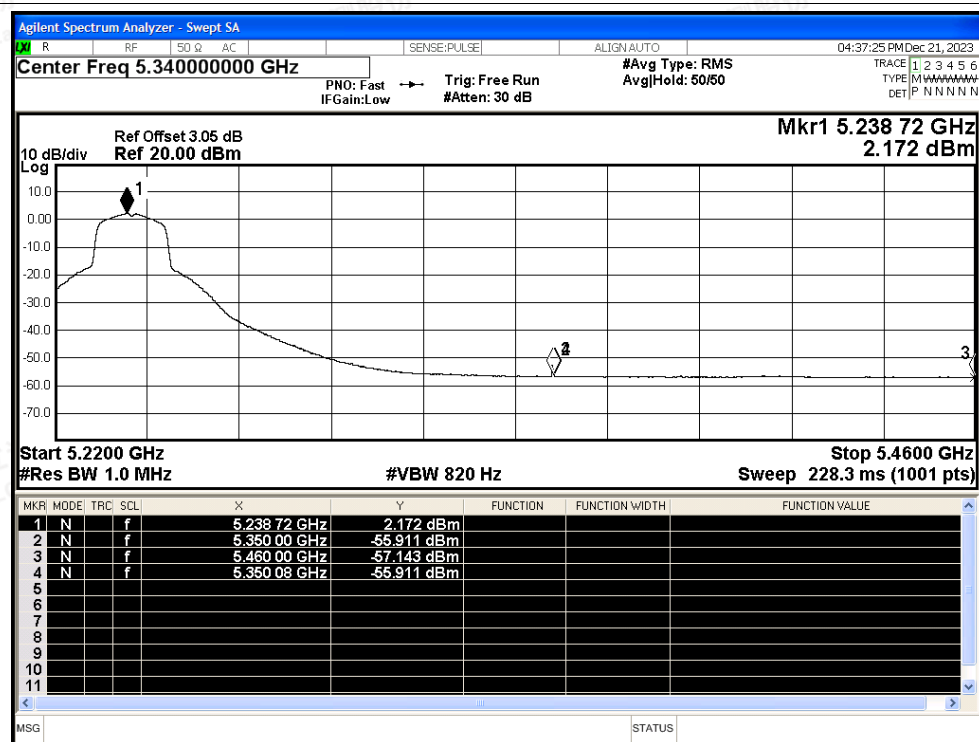
Scan code to check authenticity



## Restrict Band NVNT n20 5240MHz MIMO Peak



## Restrict Band NVNT n20 5240MHz MIMO Average



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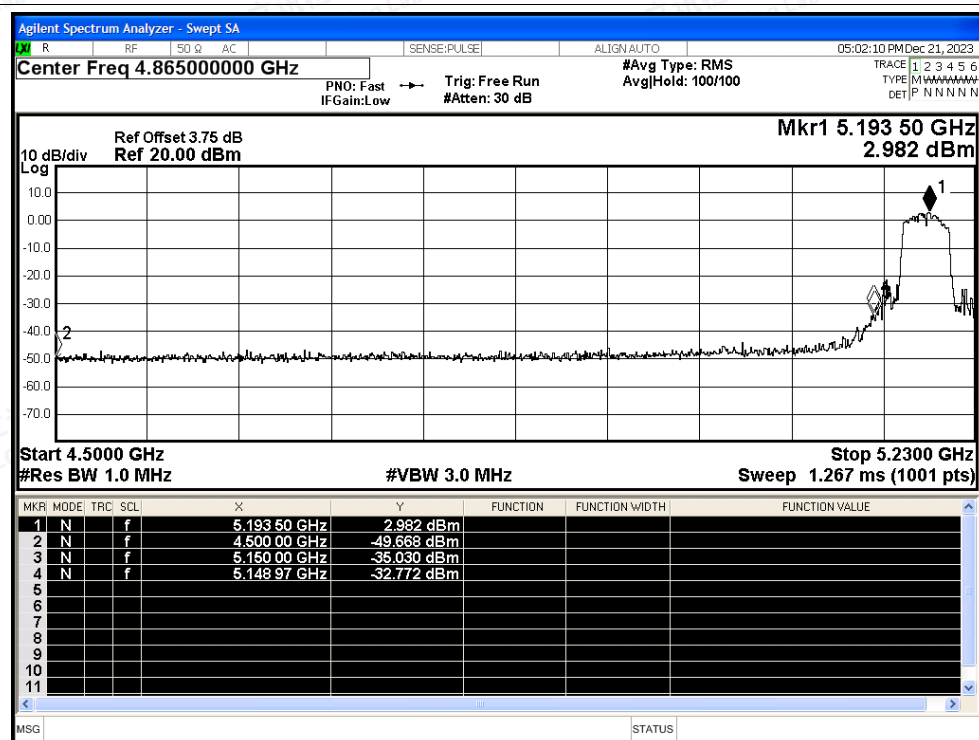
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

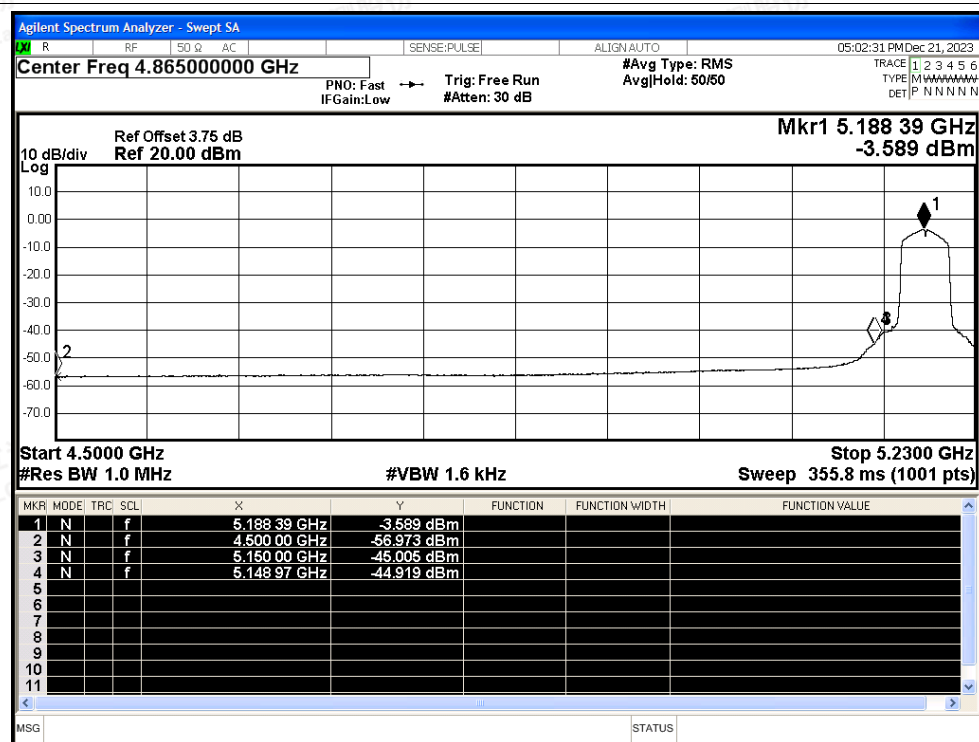
Scan code to check authenticity



## Restrict Band NVNT n40 5190MHz MIMO Peak



## Restrict Band NVNT n40 5190MHz MIMO Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

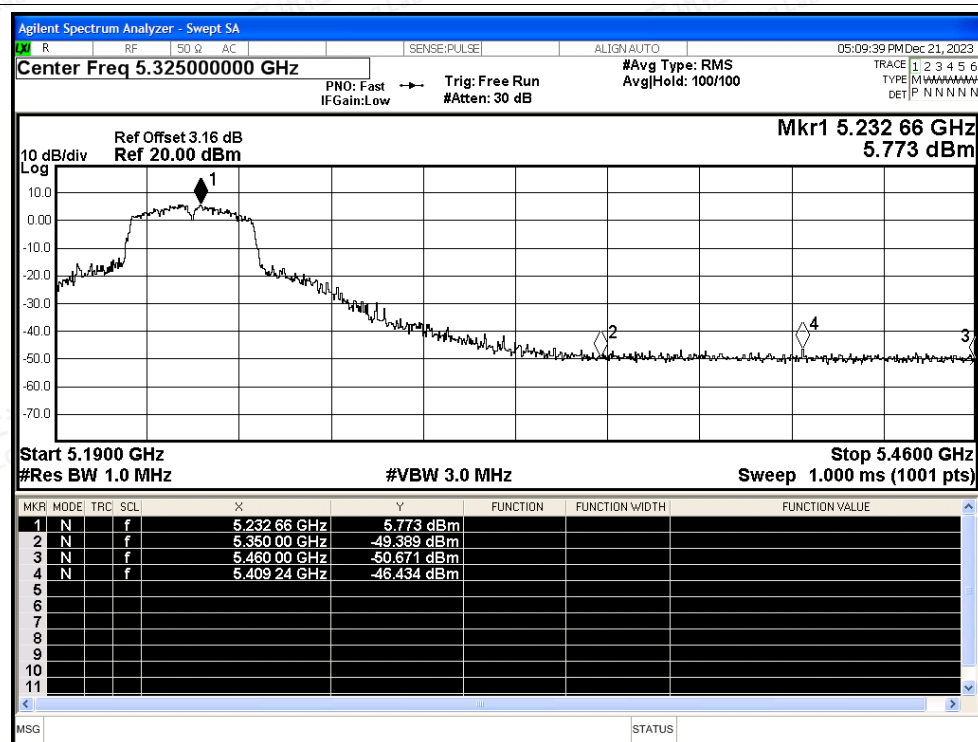
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

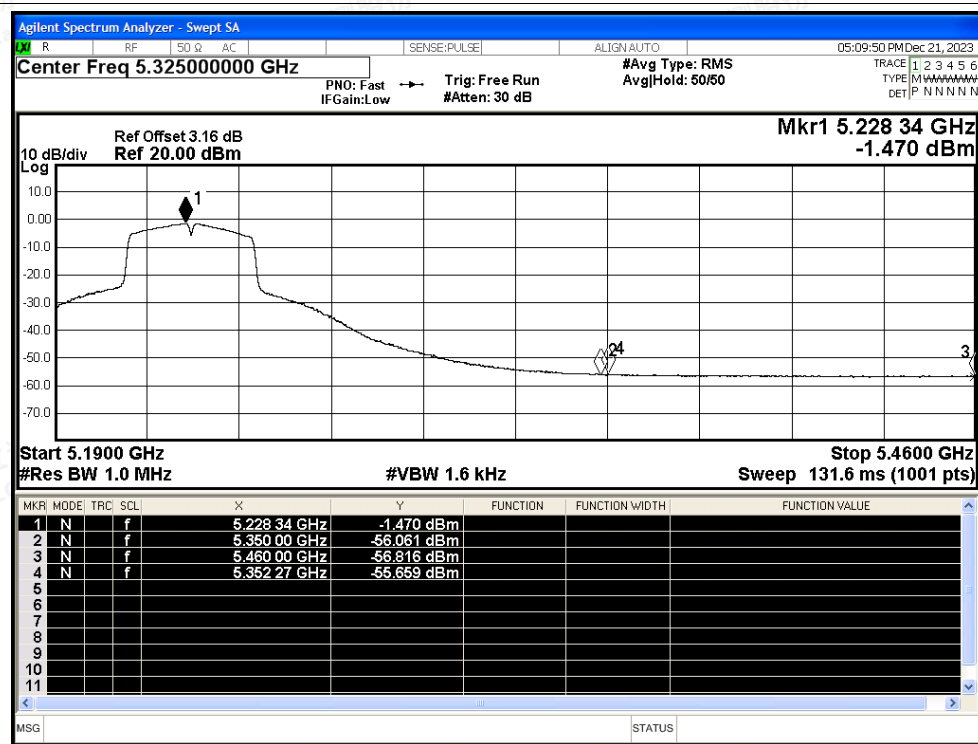
Scan code to check authenticity



## Restrict Band NVNT n40 5230MHz MIMO Peak



## Restrict Band NVNT n40 5230MHz MIMO Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

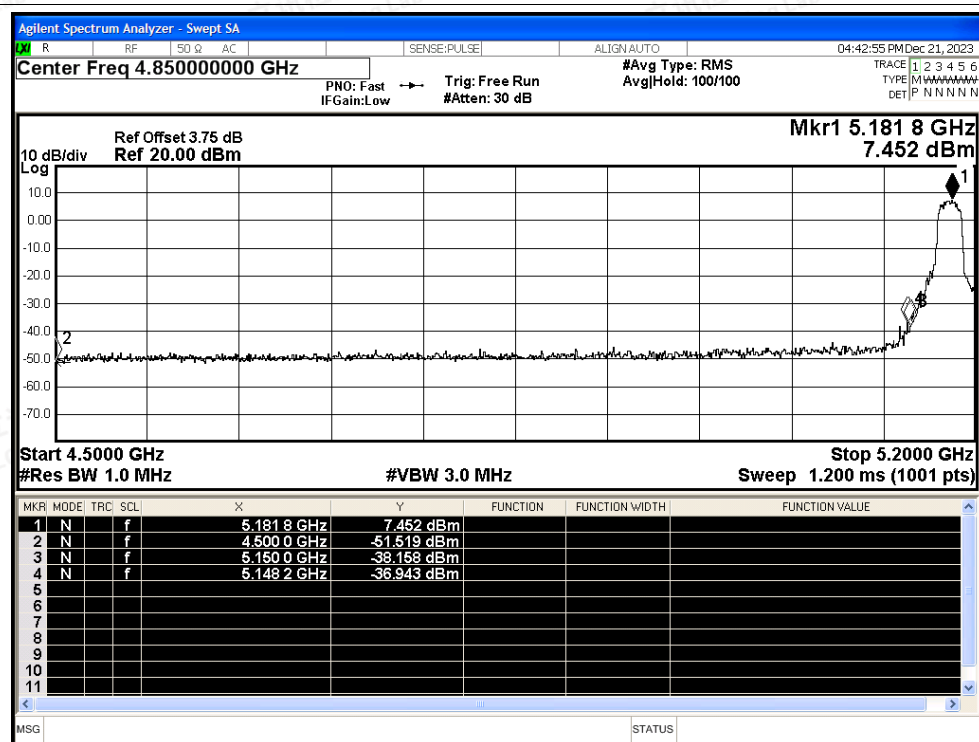
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

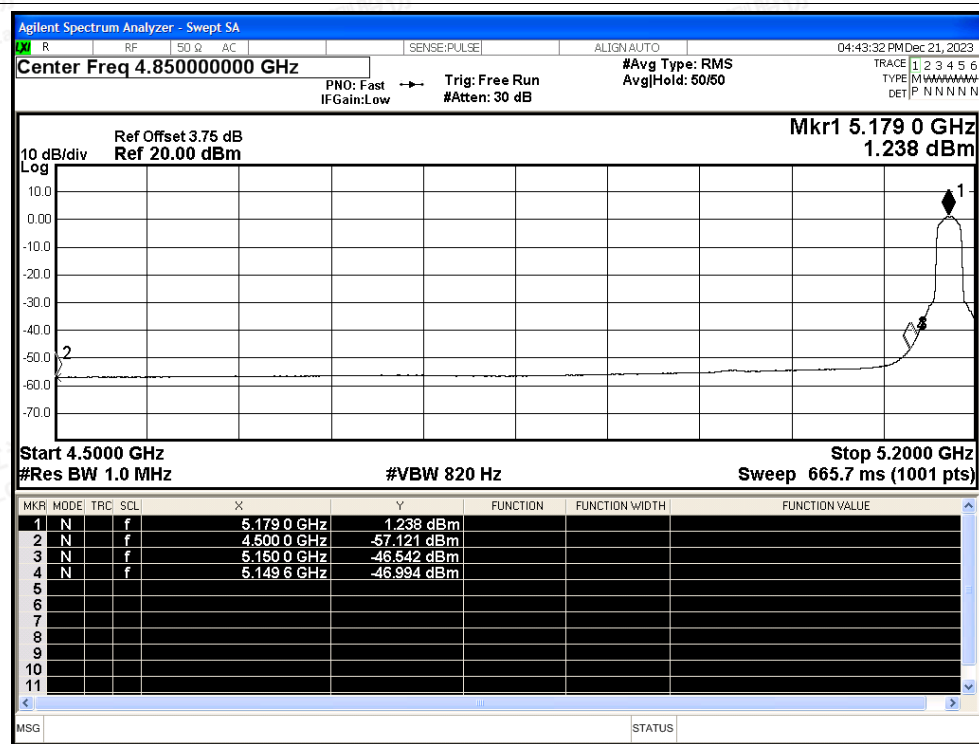
Scan code to check authenticity



## Restrict Band NVNT ac20 5180MHz MIMO Peak



## Restrict Band NVNT ac20 5180MHz MIMO Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

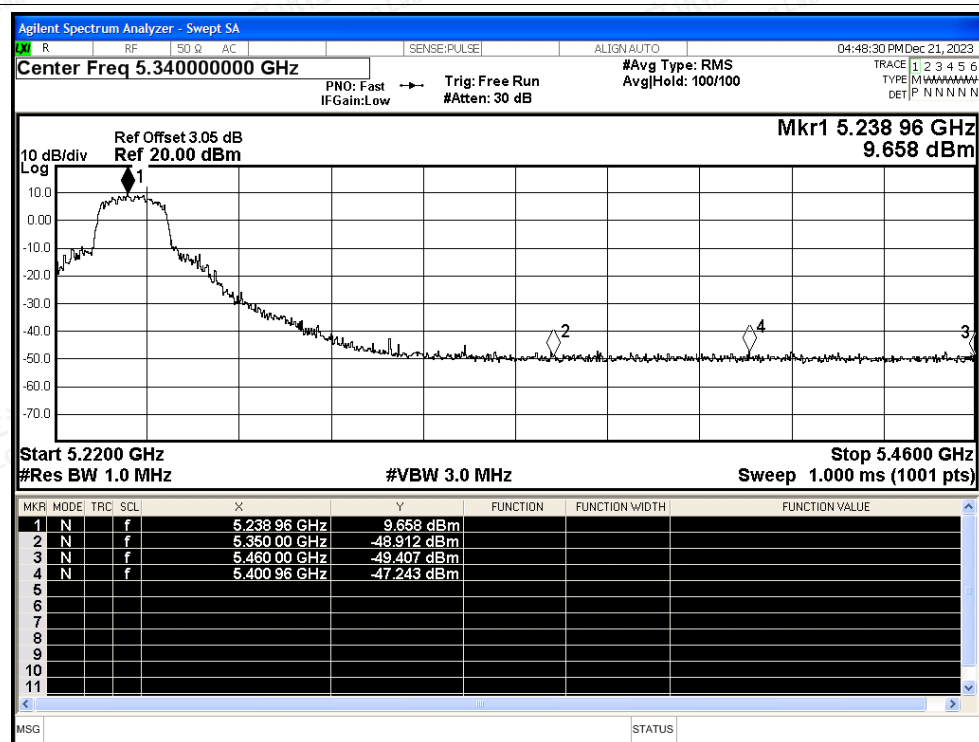
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

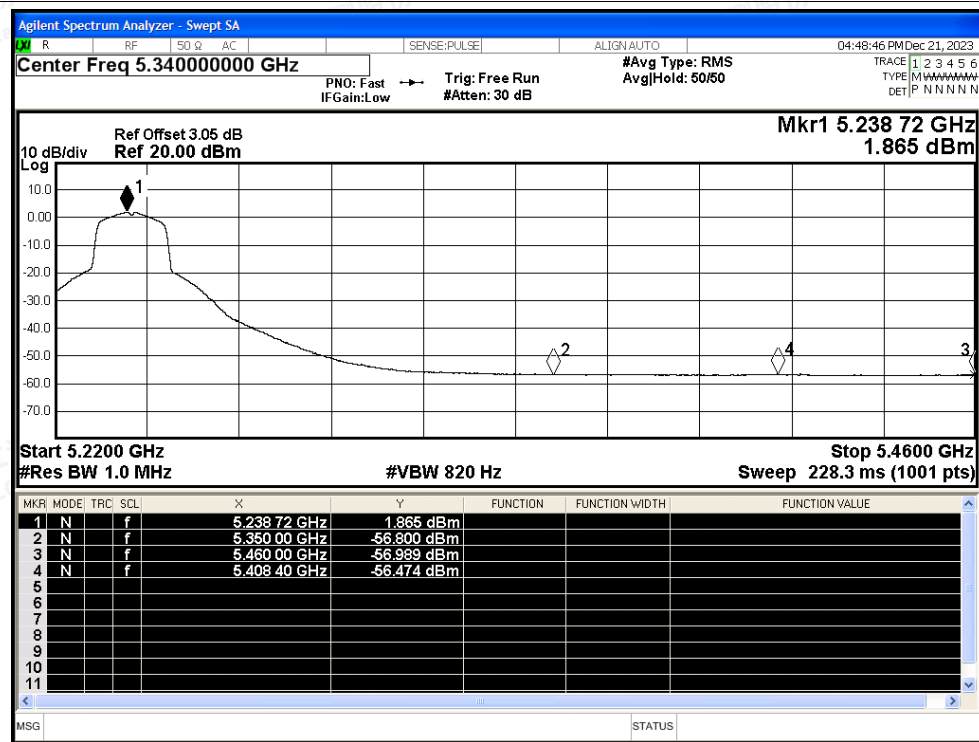
Scan code to check authenticity



## Restrict Band NVNT ac20 5240MHz MIMO Peak



## Restrict Band NVNT ac20 5240MHz MIMO Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

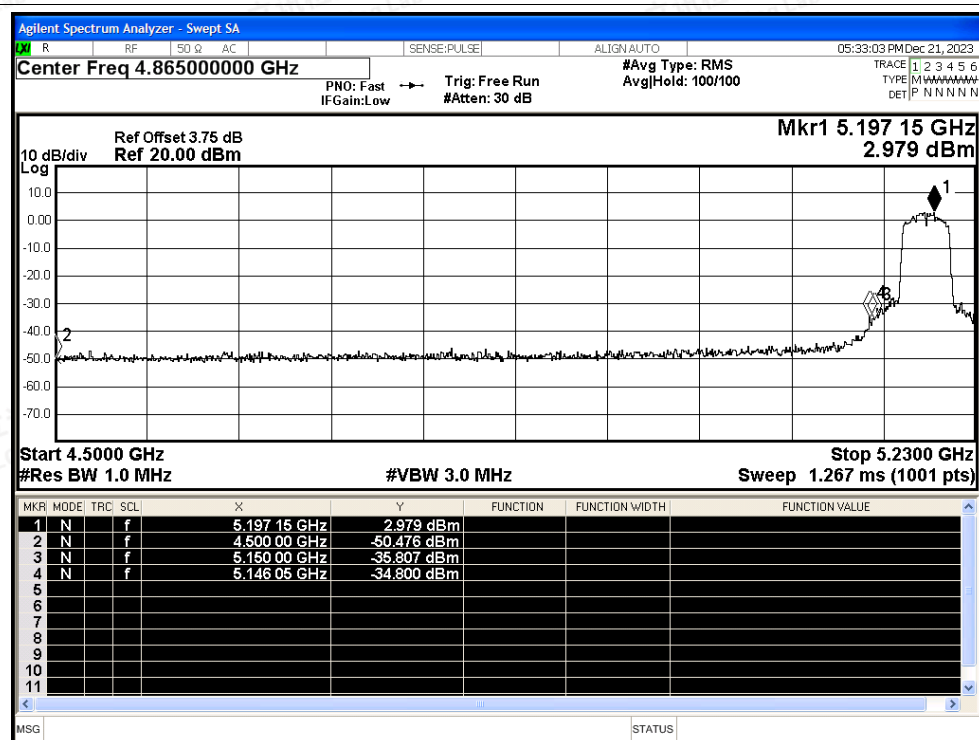
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

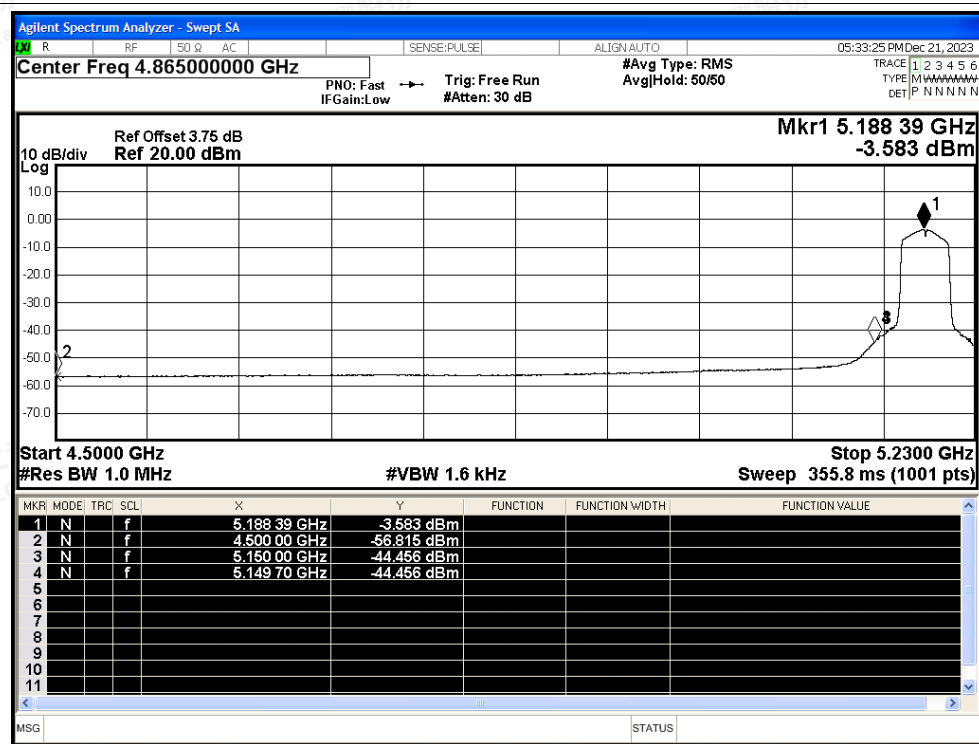
Scan code to check authenticity



## Restrict Band NVNT ac40 5190MHz MIMO Peak

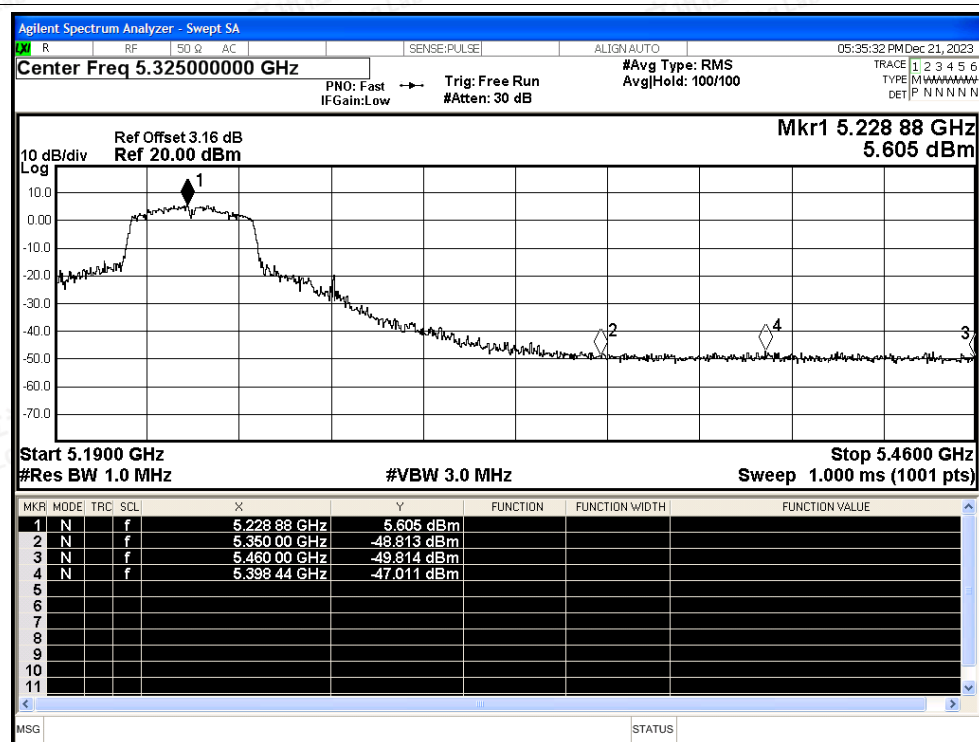


## Restrict Band NVNT ac40 5190MHz MIMO Average

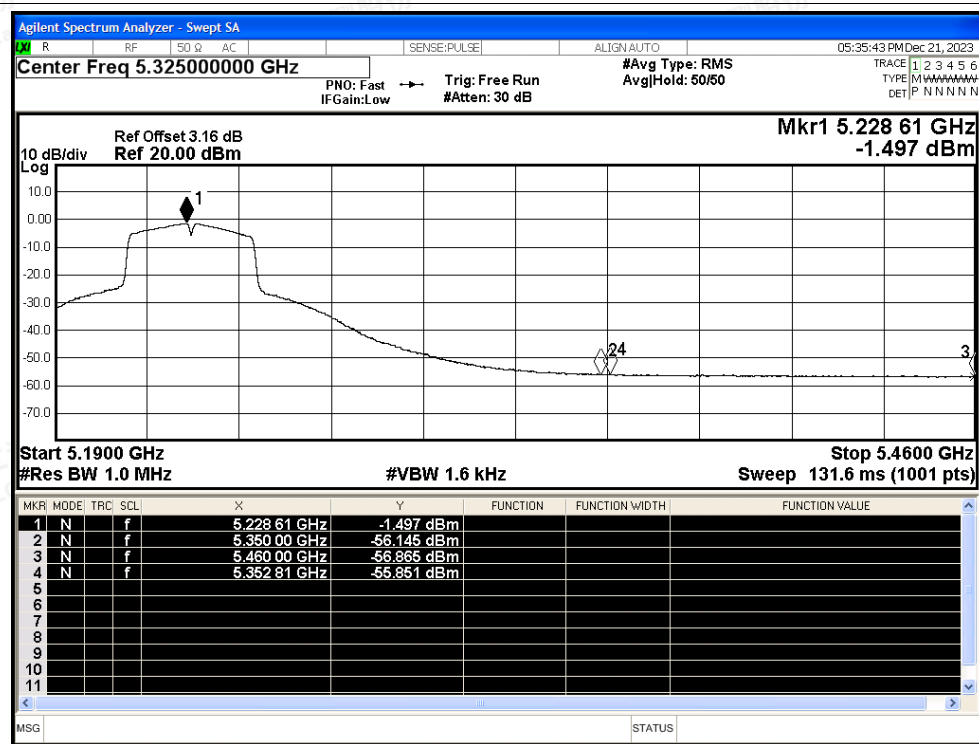




## Restrict Band NVNT ac40 5230MHz MIMO Peak



## Restrict Band NVNT ac40 5230MHz MIMO Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

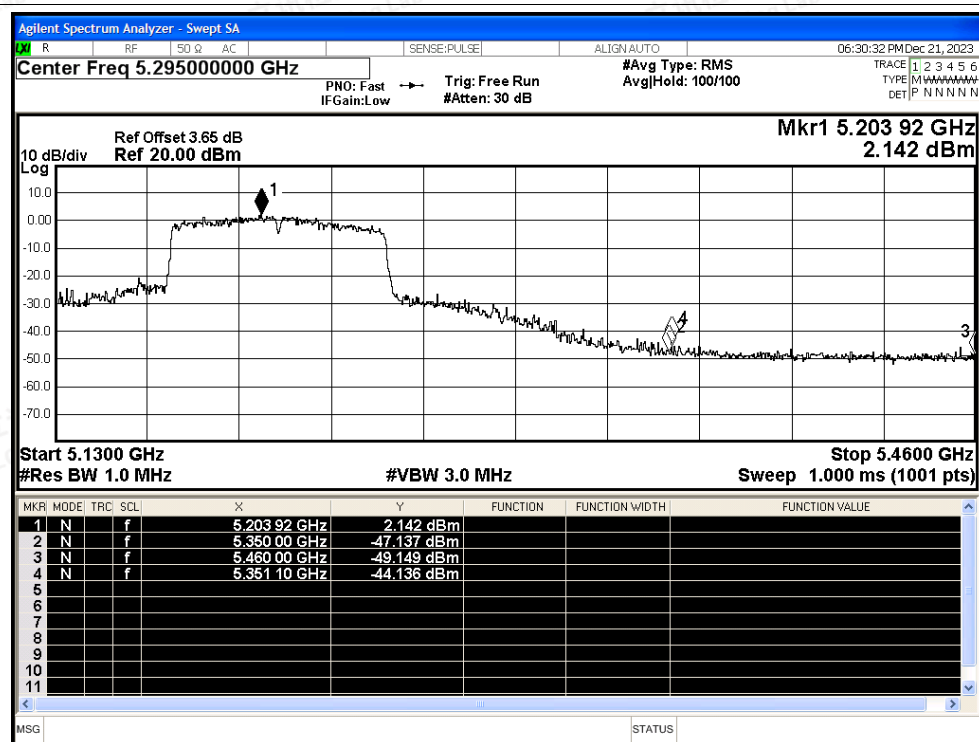
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

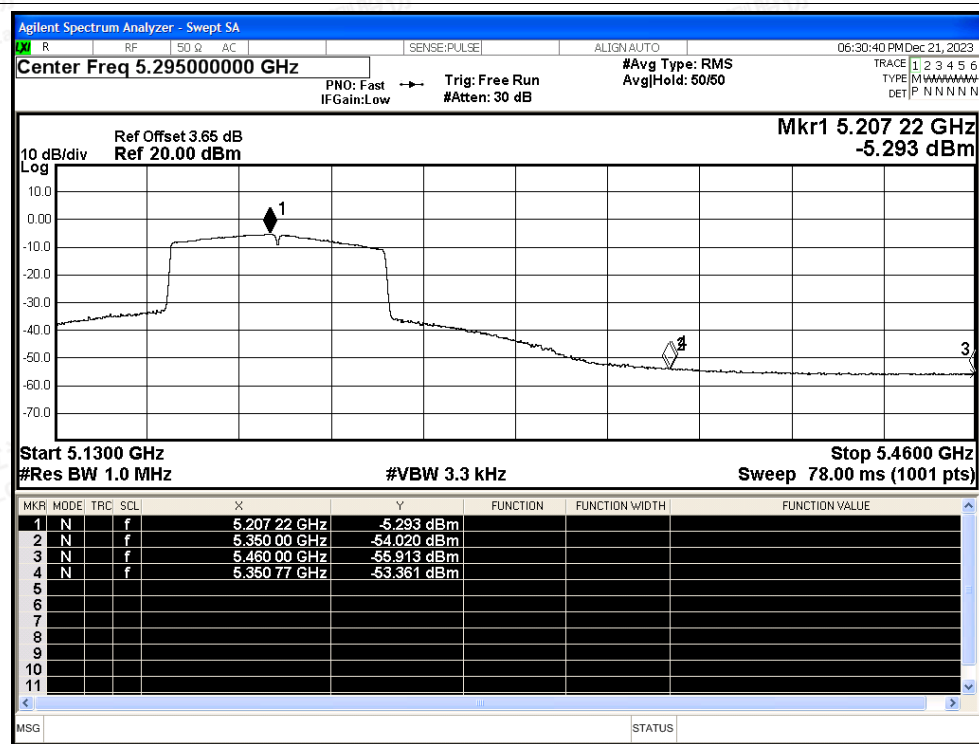
Scan code to check authenticity



## Restrict Band NVNT ac80 5210MHz MIMO Peak



## Restrict Band NVNT ac80 5210MHz MIMO Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

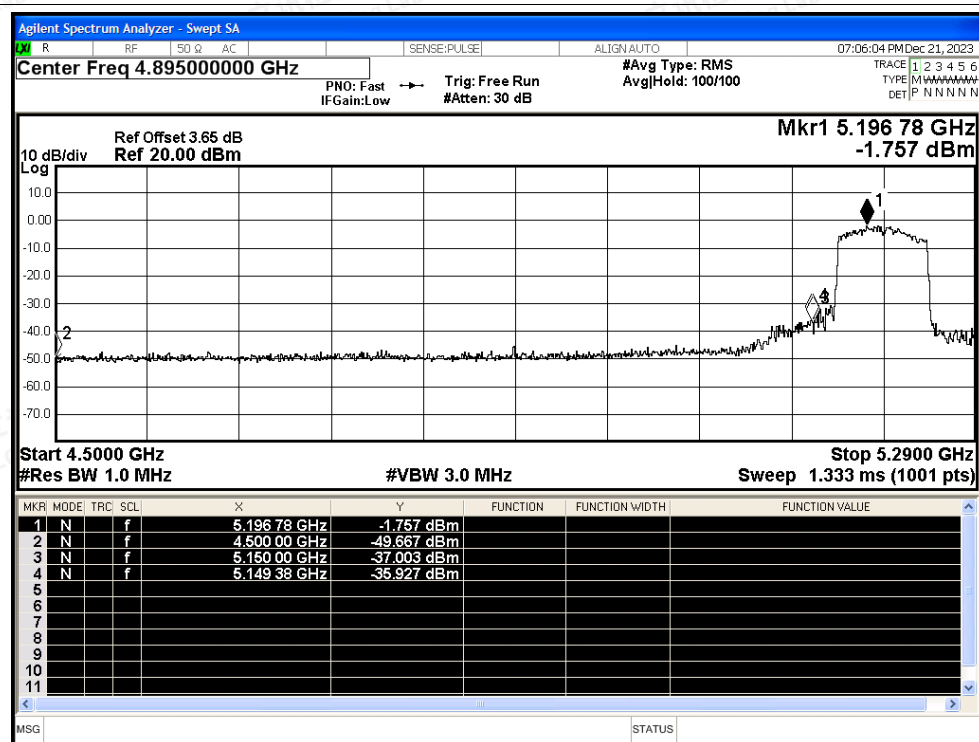
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

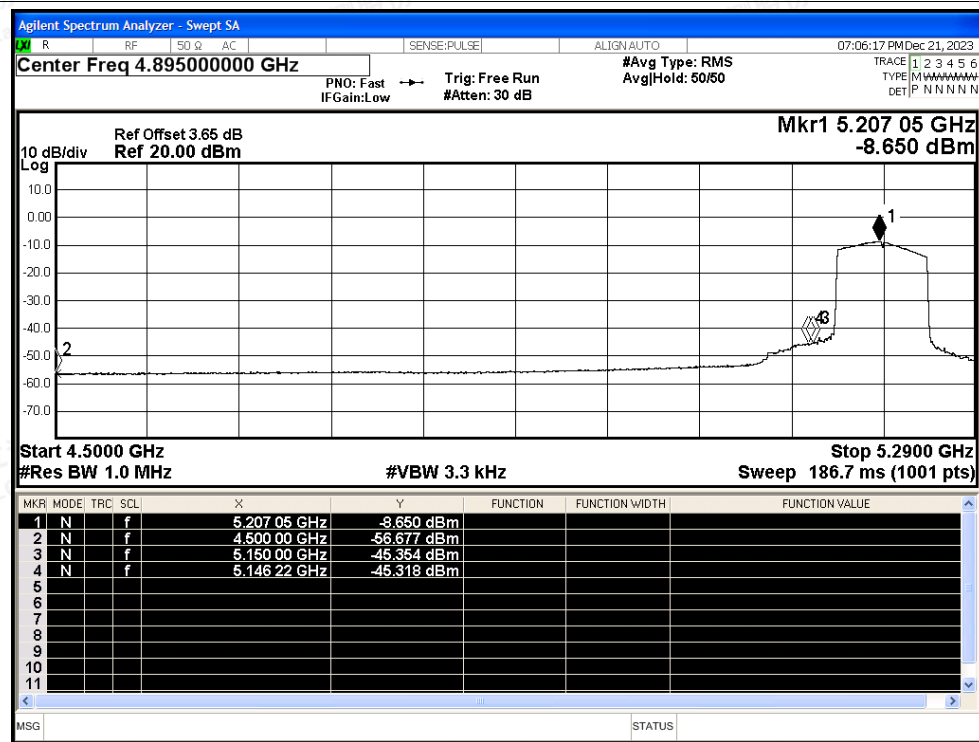
Scan code to check authenticity



## Restrict Band NVNT ac80 5210MHz MIMO Peak



## Restrict Band NVNT ac80 5210MHz MIMO Average





## D.5 Frequency Stability

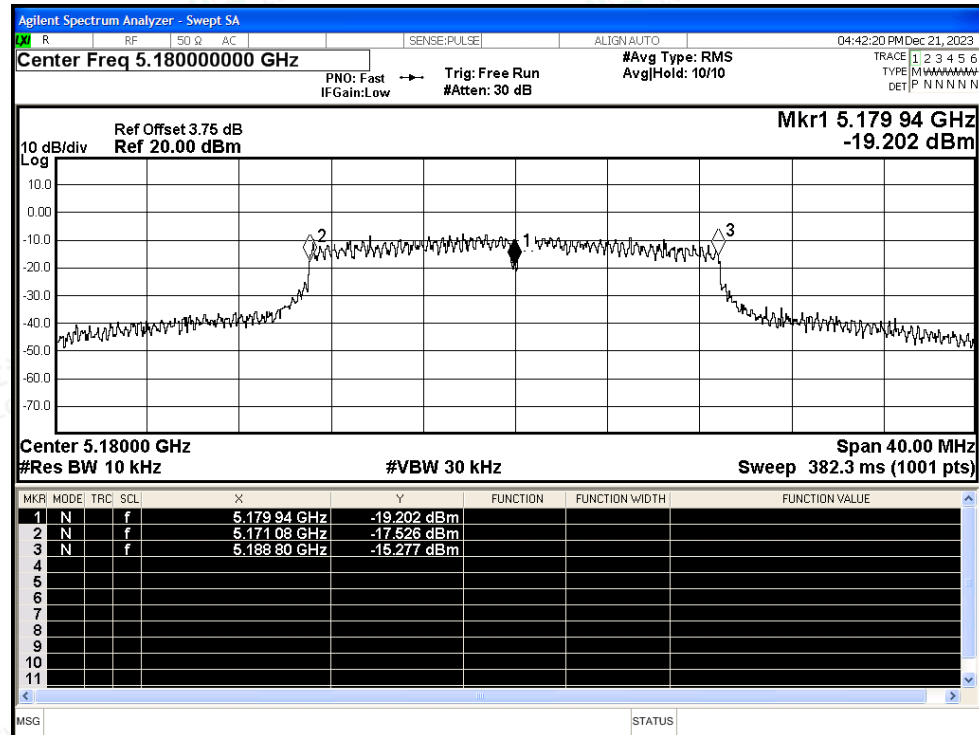
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | ac20 | 5180            | Ant0    | 5179.94                  | -60000               | -11.58          | 25          | Pass    |
| NVNT      | ac20 | 5200            | Ant0    | 5199.96                  | -40000               | -7.69           | 25          | Pass    |
| NVNT      | ac20 | 5240            | Ant0    | 5239.98                  | -20000               | -3.82           | 25          | Pass    |
| NVNT      | ac40 | 5190            | Ant0    | 5189.92                  | -80000               | -15.41          | 25          | Pass    |
| NVNT      | ac40 | 5230            | Ant0    | 5229.96                  | -40000               | -7.65           | 25          | Pass    |
| NVNT      | ac80 | 5210            | Ant0    | 5209.92                  | -80000               | -15.36          | 25          | Pass    |



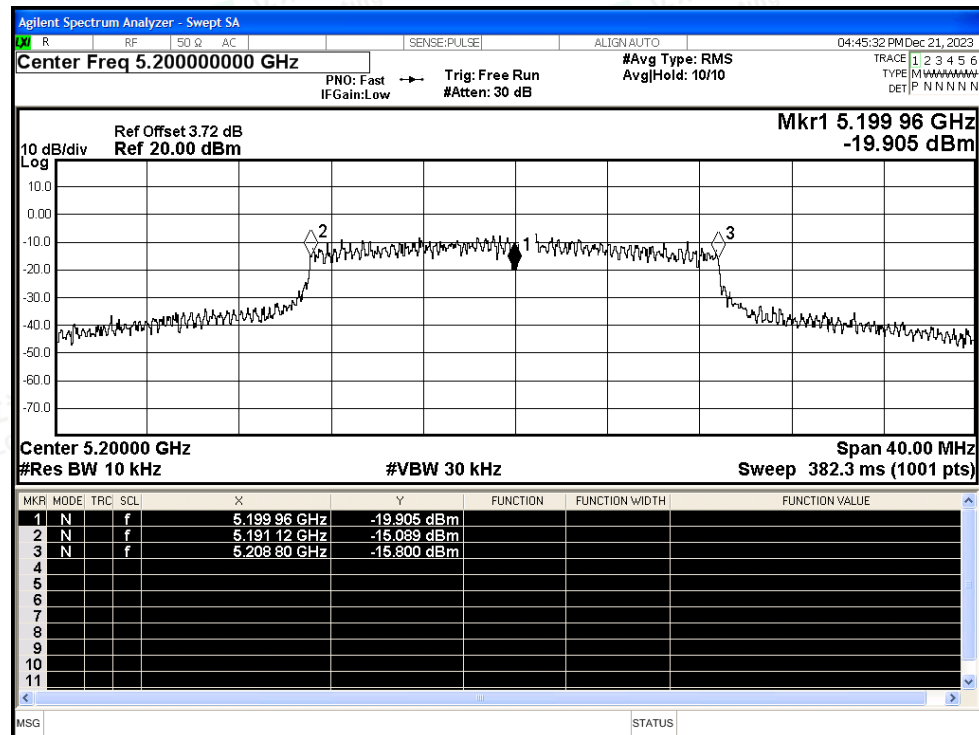


## Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant0



Freq. Stability NVNT ac20 5200MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

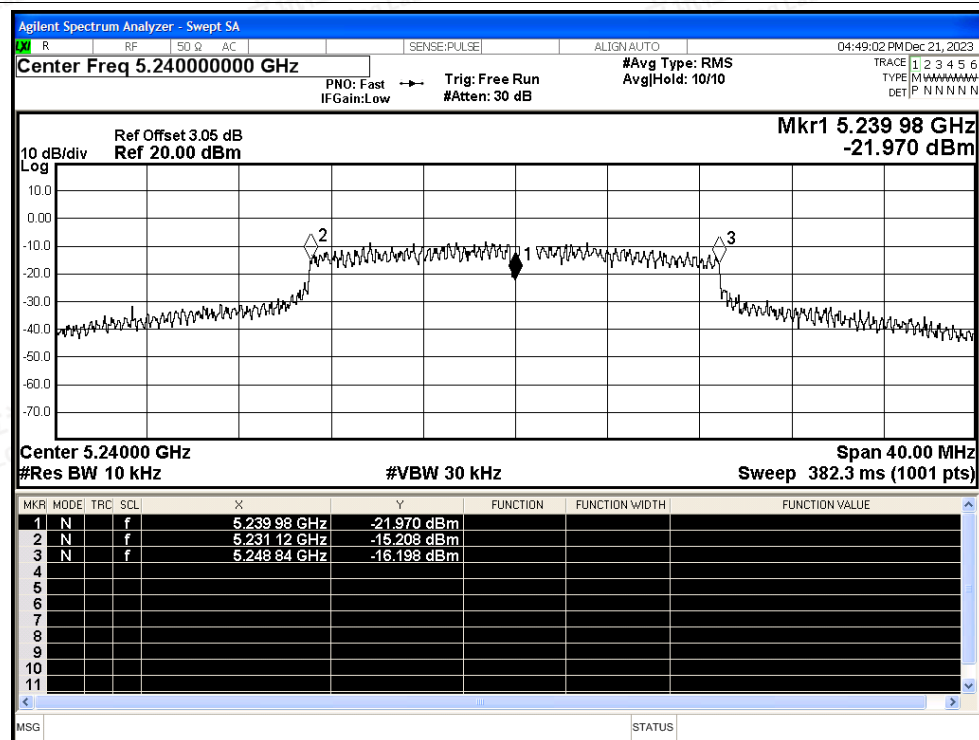
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

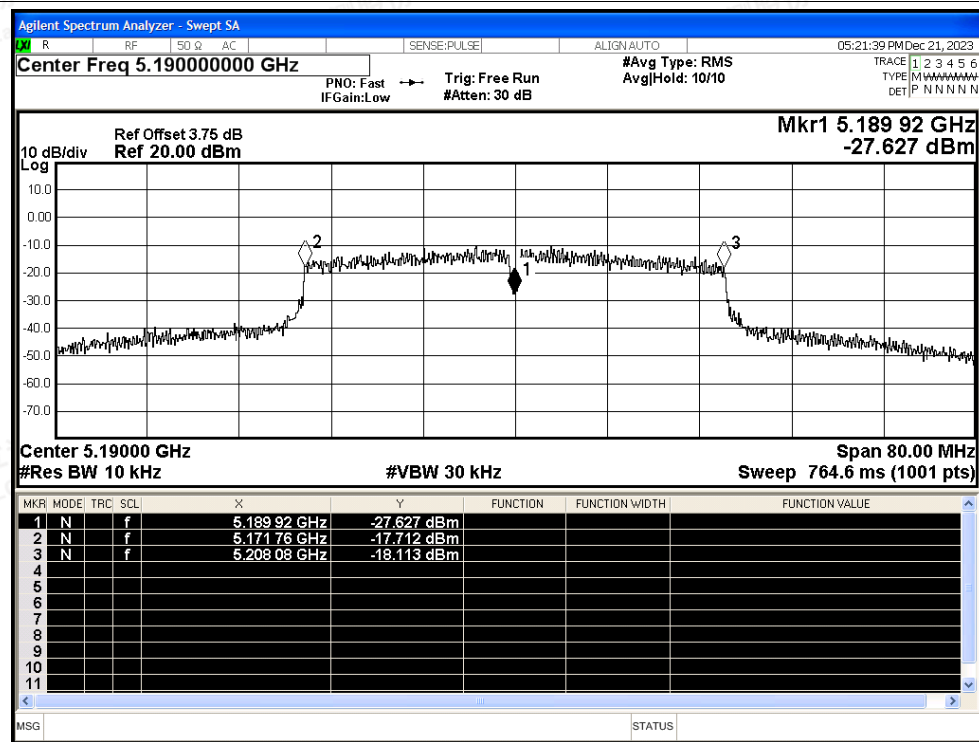
Scan code to check authenticity



## Freq. Stability NVNT ac20 5240MHz Ant0

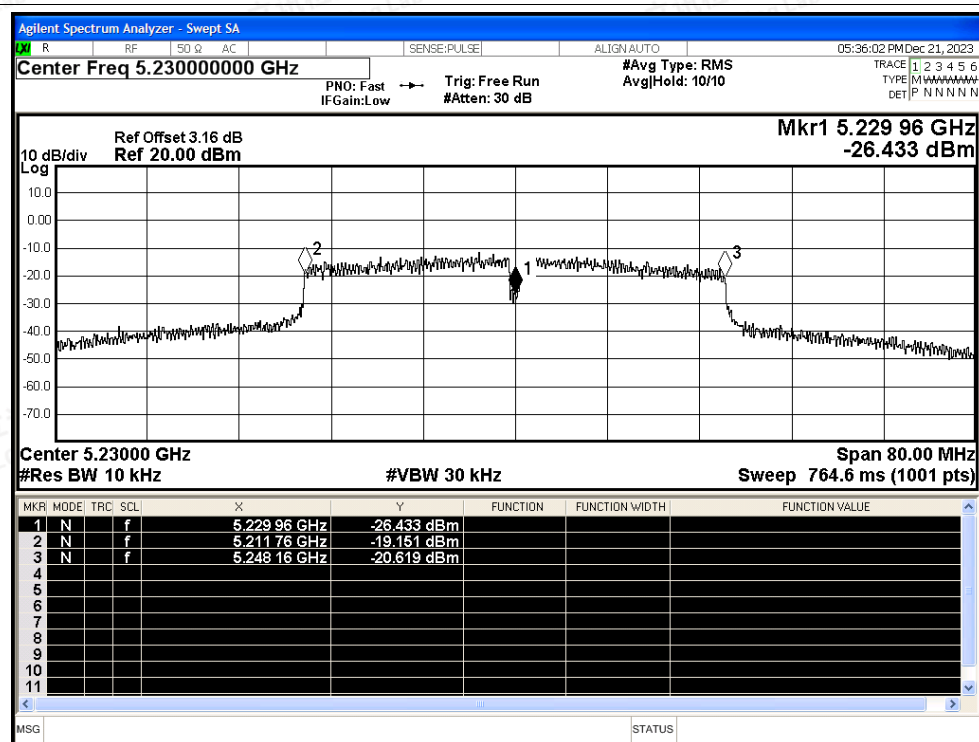


## Freq. Stability NVNT ac40 5190MHz Ant0

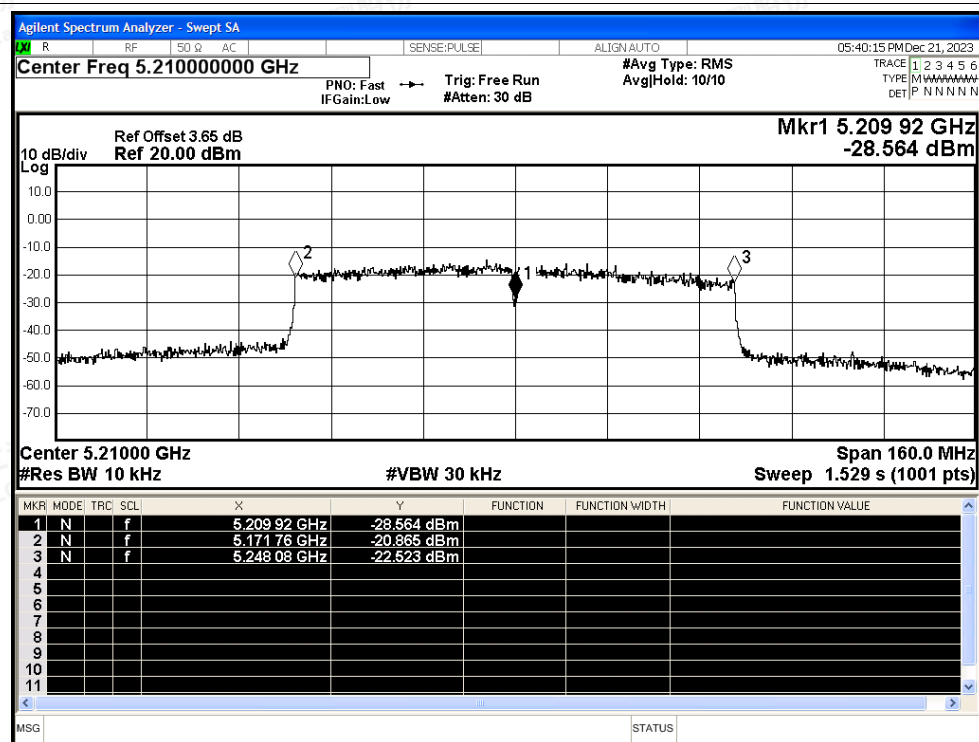




## Freq. Stability NVNT ac40 5230MHz Ant0



## Freq. Stability NVNT ac80 5210MHz Ant0



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| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | ac20 | 5180            | Ant1    | 5179.98                  | -20000               | -3.86           | 25          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 5200                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5240                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 5189.96                  | -40000               | -7.71           | 25          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 5229.96                  | -40000               | -7.65           | 25          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 5210                     | 0                    | 0               | 25          | Pass    |

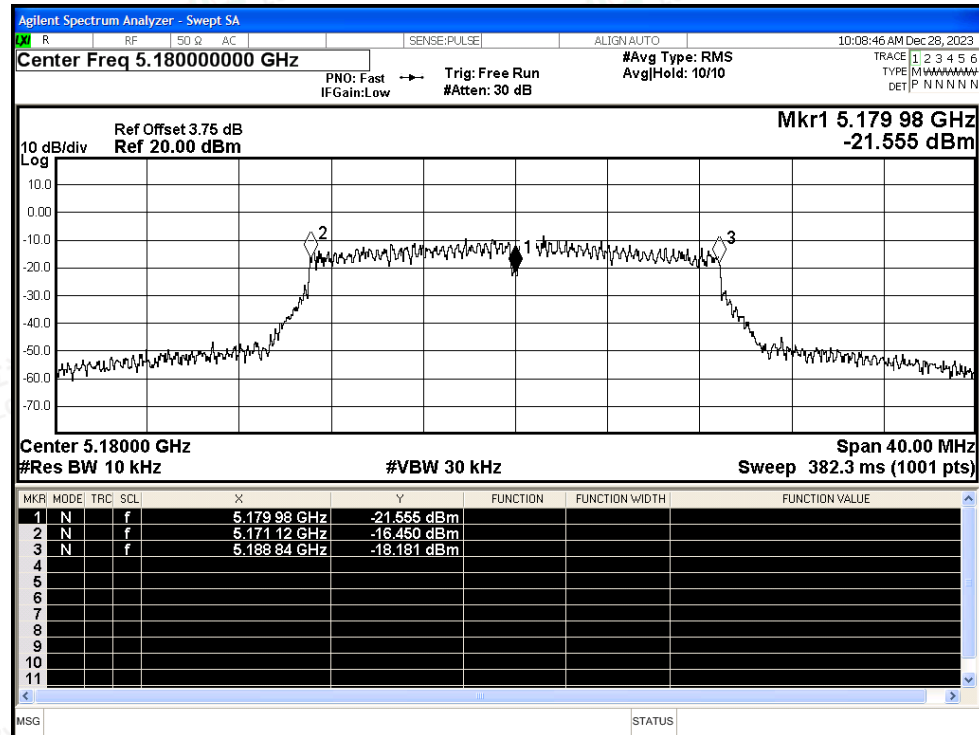


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

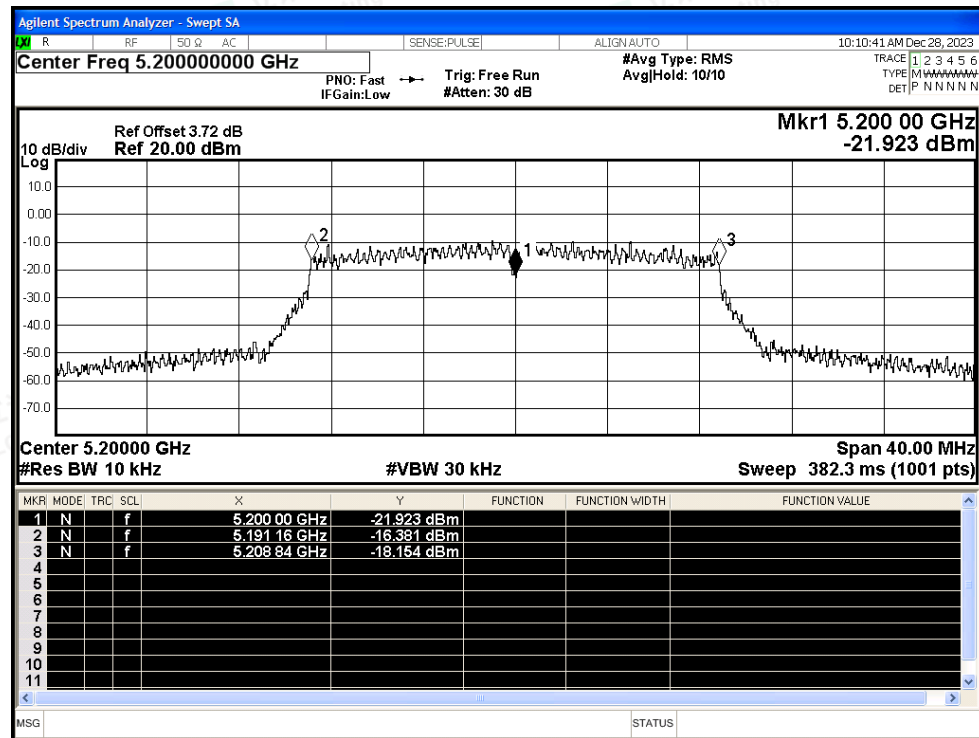


## Test Graphs

## Freq. Stability NVNT ac20 5180MHz Ant1



## Freq. Stability NVNT ac20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

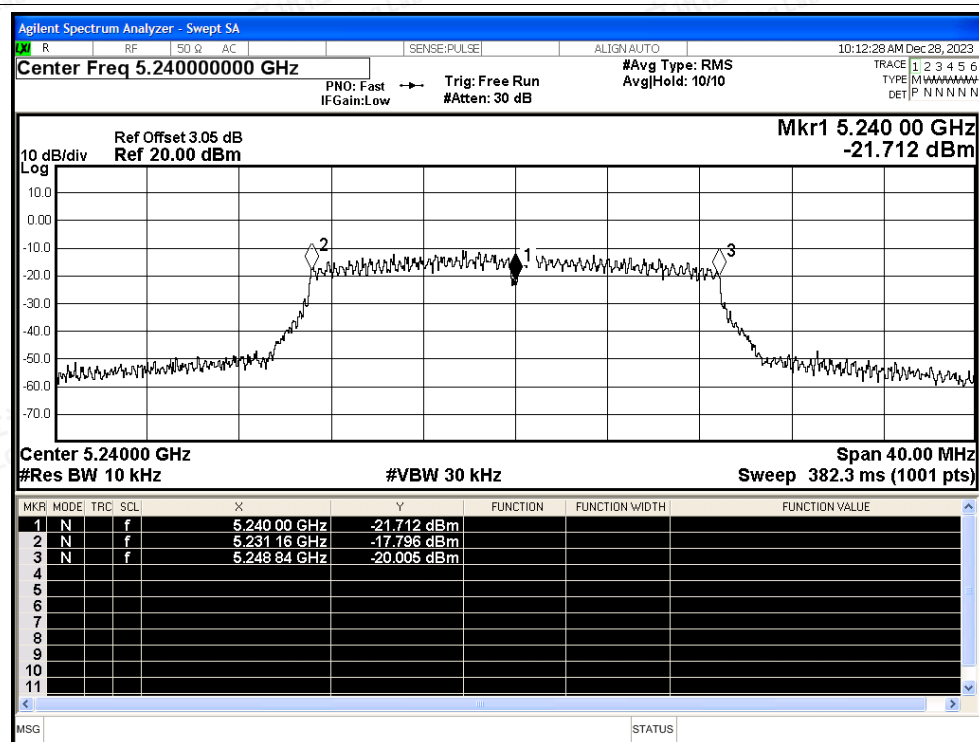
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

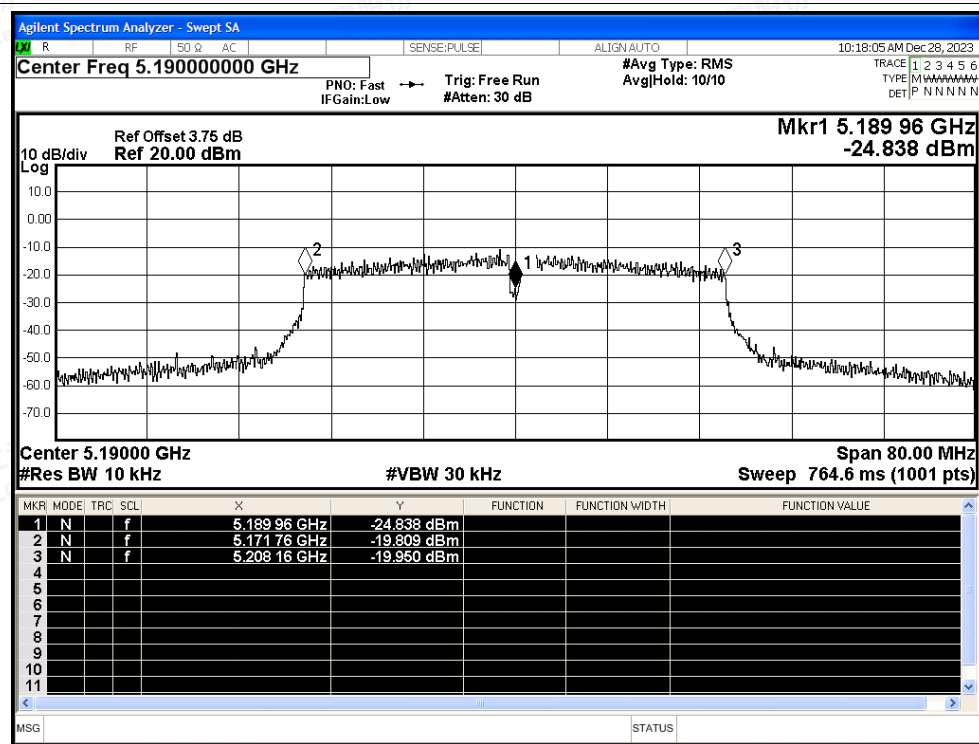
Scan code to check authenticity



## Freq. Stability NVNT ac20 5240MHz Ant1

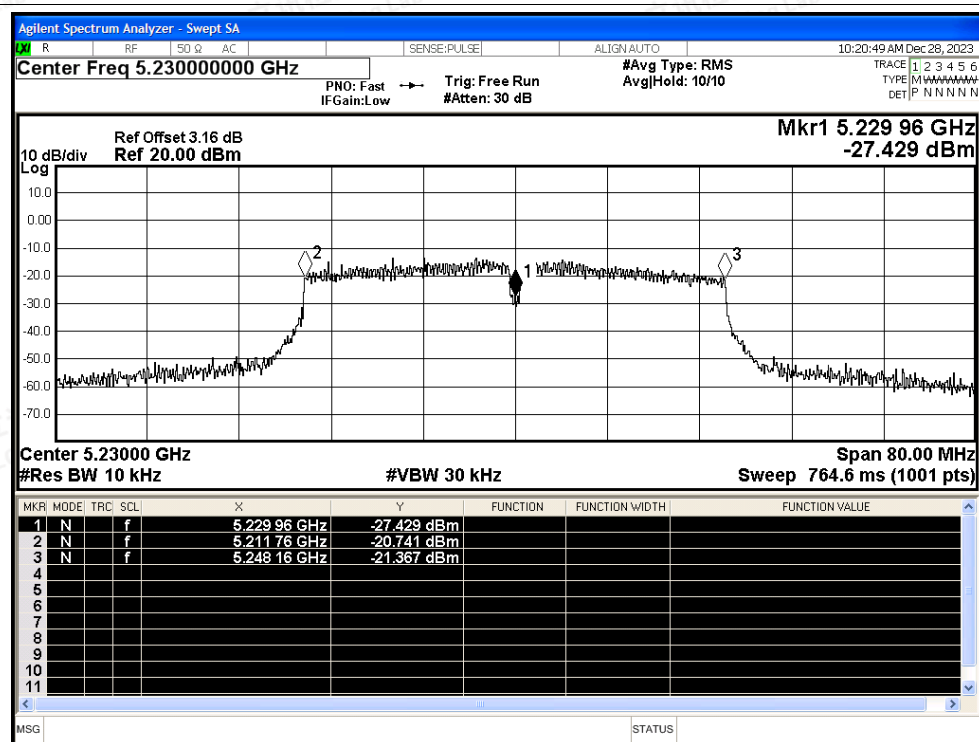


## Freq. Stability NVNT ac40 5190MHz Ant1

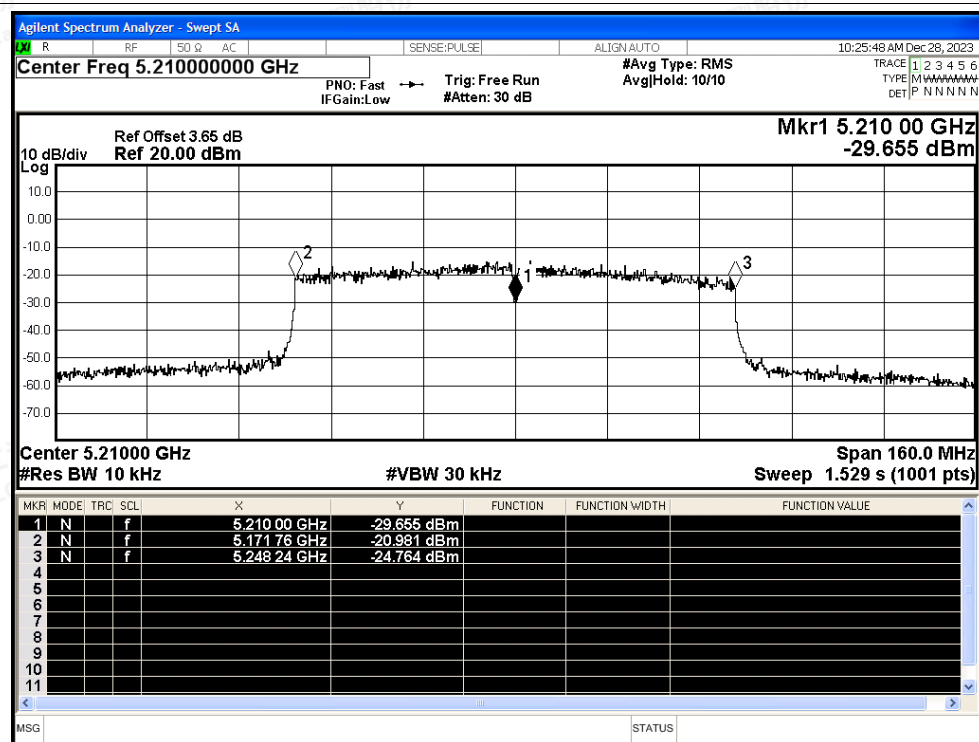




## Freq. Stability NVNT ac40 5230MHz Ant1



## Freq. Stability NVNT ac80 5210MHz Ant1





## D.6 Duty Cycle

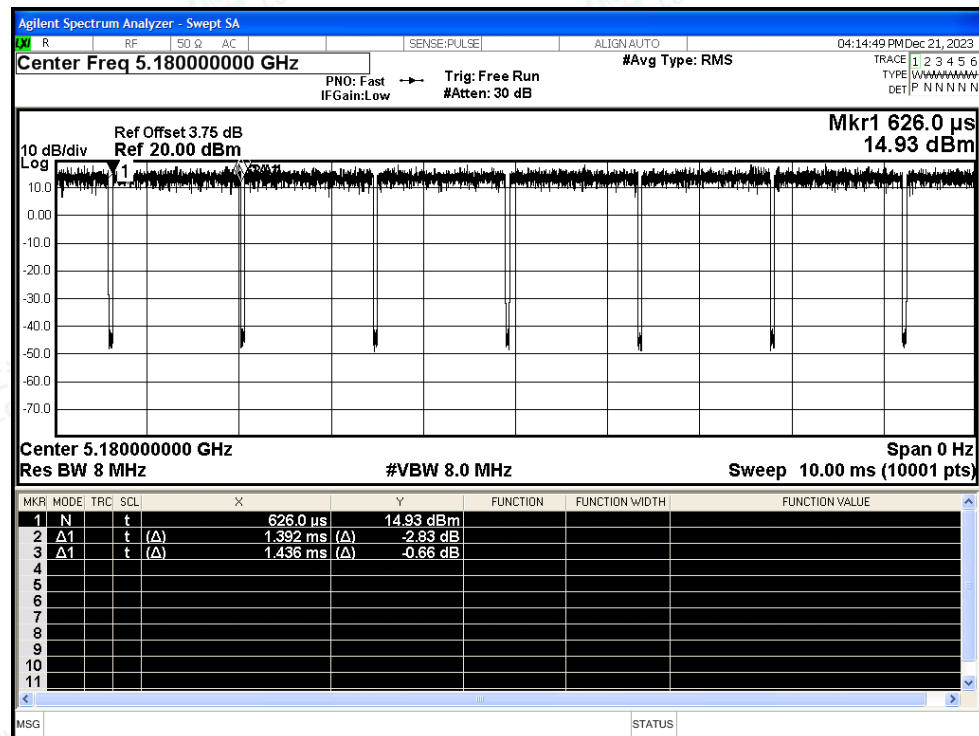
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5180            | Ant0    | 96.94          | 0.13                   | 0.72      |
| NVNT      | a    | 5200            | Ant0    | 96.94          | 0.13                   | 0.72      |
| NVNT      | a    | 5240            | Ant0    | 96.87          | 0.14                   | 0.72      |
| NVNT      | n20  | 5180            | Ant0    | 96.7           | 0.15                   | 0.78      |
| NVNT      | n20  | 5200            | Ant0    | 96.7           | 0.15                   | 0.78      |
| NVNT      | n20  | 5240            | Ant0    | 96.7           | 0.15                   | 0.78      |
| NVNT      | n40  | 5190            | Ant0    | 93.53          | 0.29                   | 1.57      |
| NVNT      | n40  | 5230            | Ant0    | 93.68          | 0.28                   | 1.57      |
| NVNT      | ac20 | 5180            | Ant0    | 96.77          | 0.14                   | 0.76      |
| NVNT      | ac20 | 5200            | Ant0    | 96.76          | 0.14                   | 0.76      |
| NVNT      | ac20 | 5240            | Ant0    | 96.76          | 0.14                   | 0.76      |
| NVNT      | ac40 | 5190            | Ant0    | 93.68          | 0.28                   | 1.53      |
| NVNT      | ac40 | 5230            | Ant0    | 93.68          | 0.28                   | 1.53      |
| NVNT      | ac80 | 5210            | Ant0    | 88.08          | 0.55                   | 3.08      |



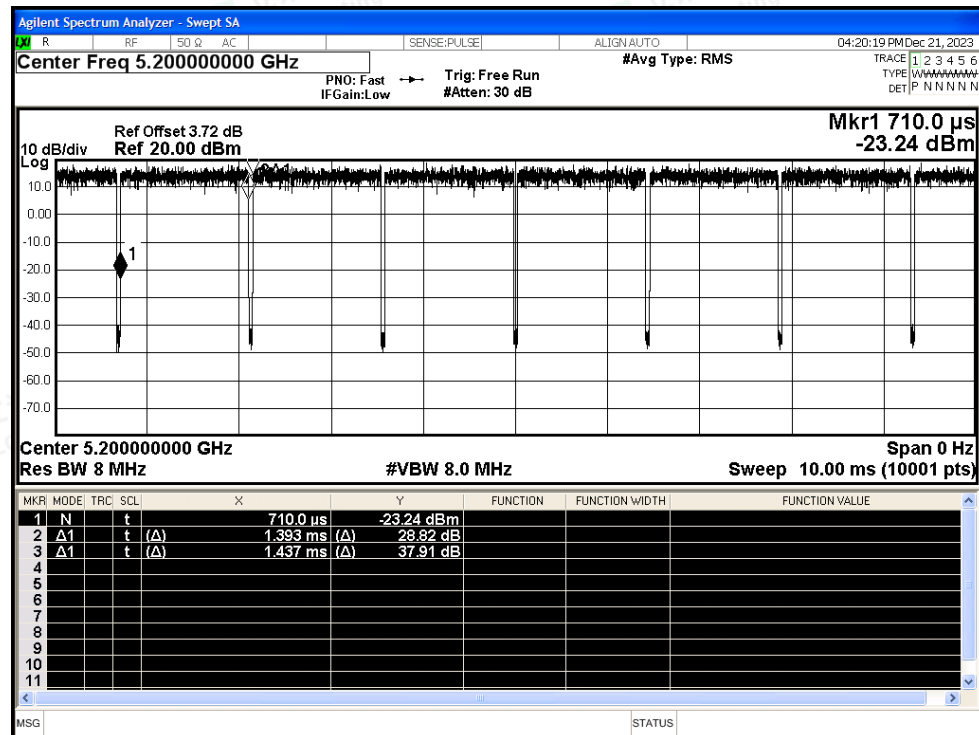


## Test Graphs

## Duty Cycle NVNT a 5180MHz Ant0



## Duty Cycle NVNT a 5200MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

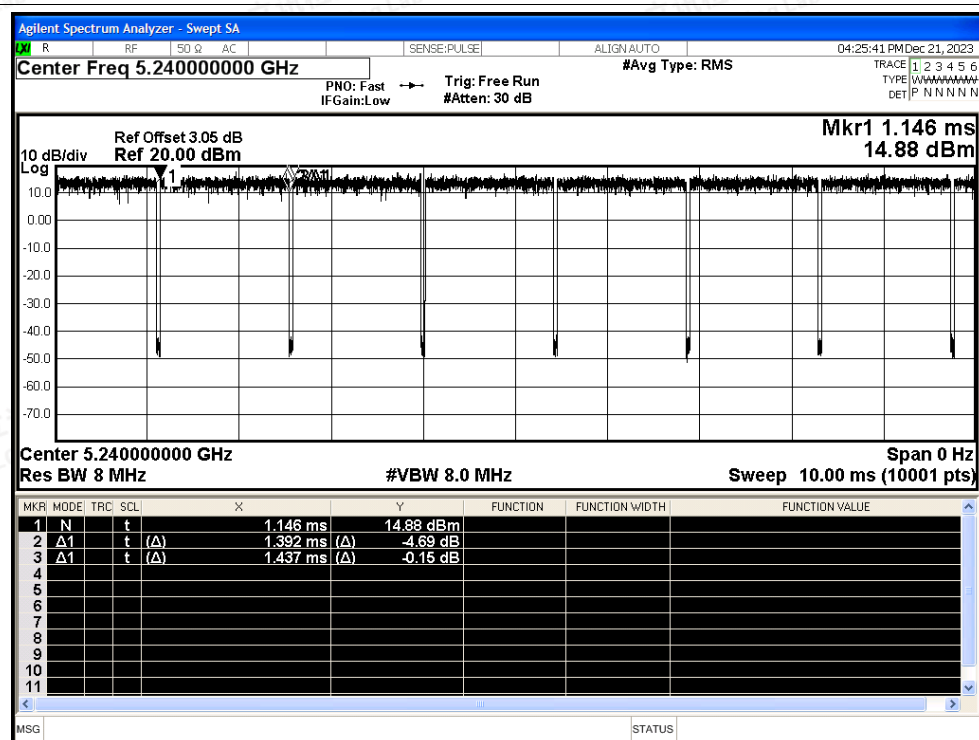
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

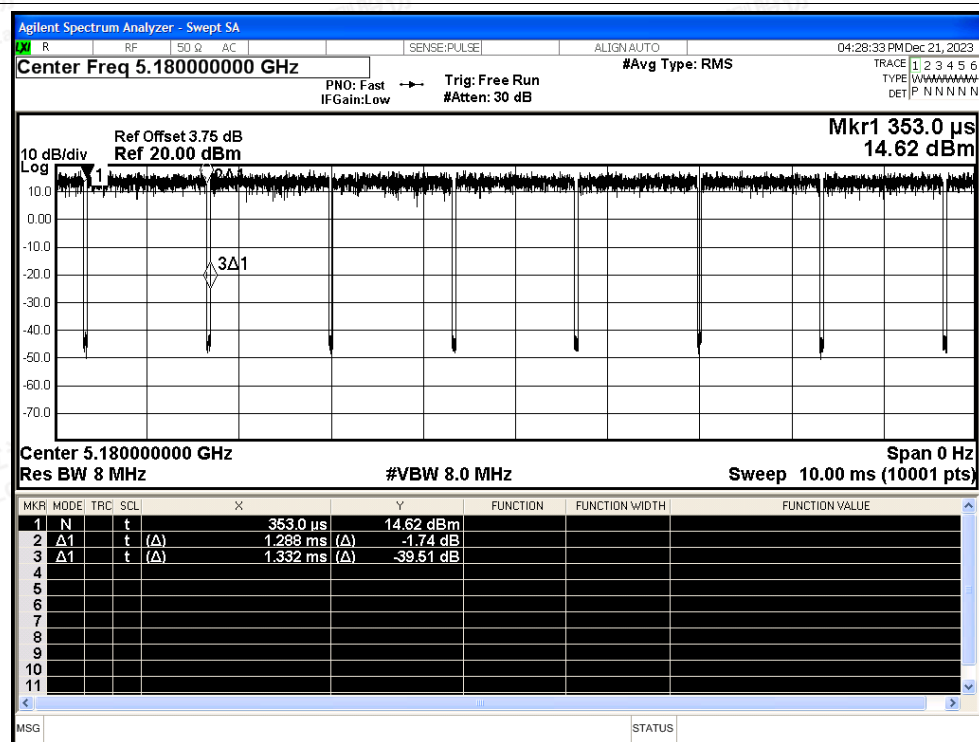
Scan code to check authenticity



## Duty Cycle NVNT a 5240MHz Ant0



## Duty Cycle NVNT n20 5180MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

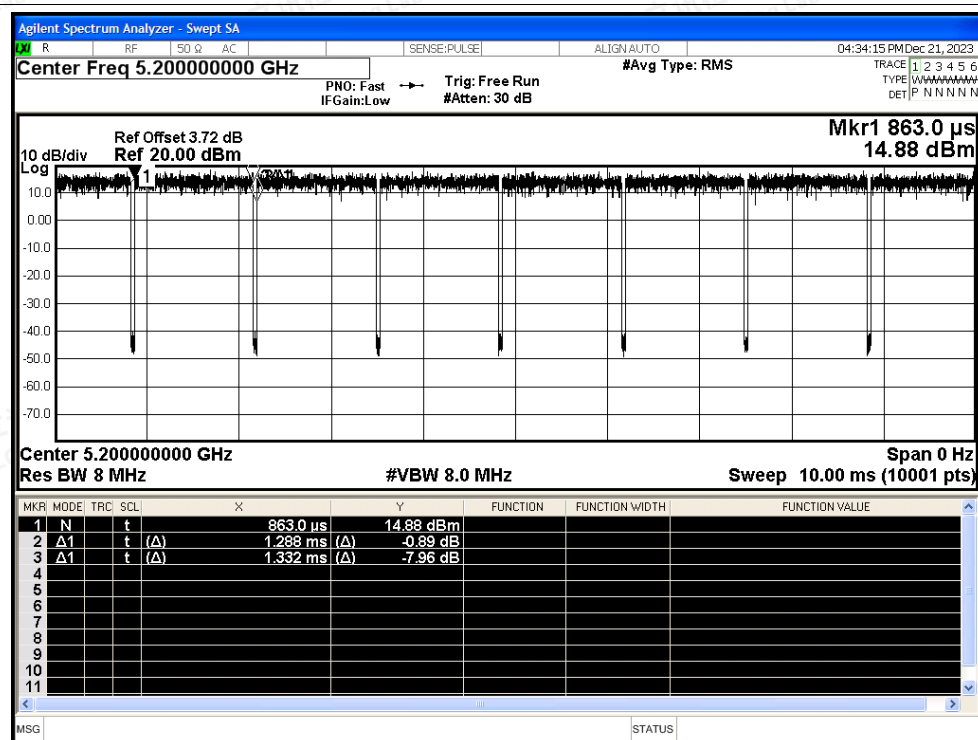
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

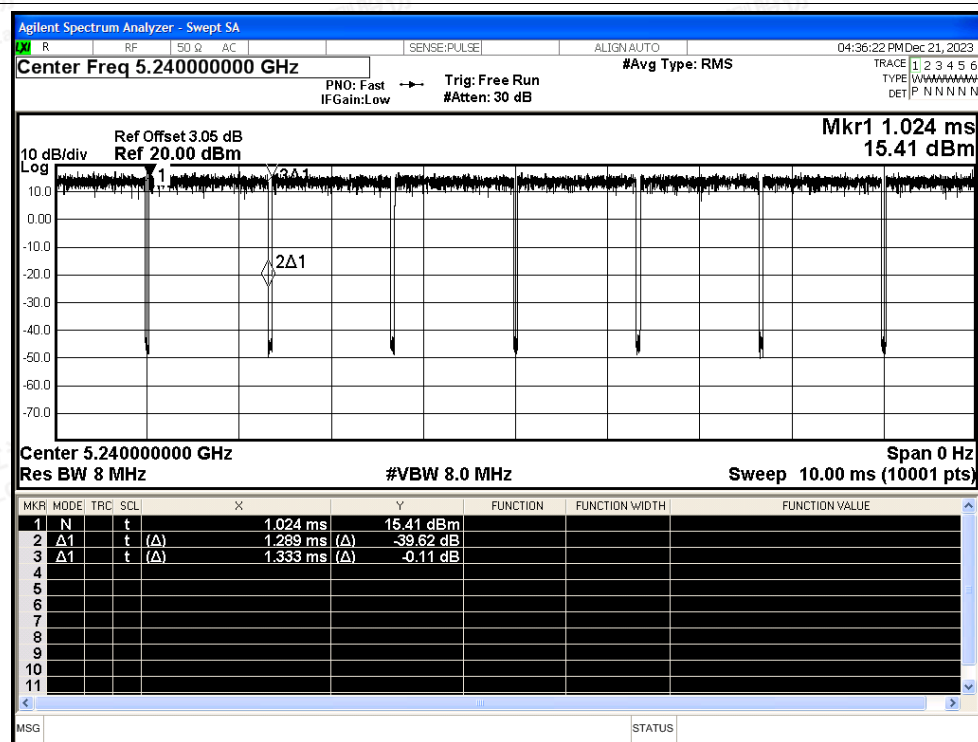
Scan code to check authenticity

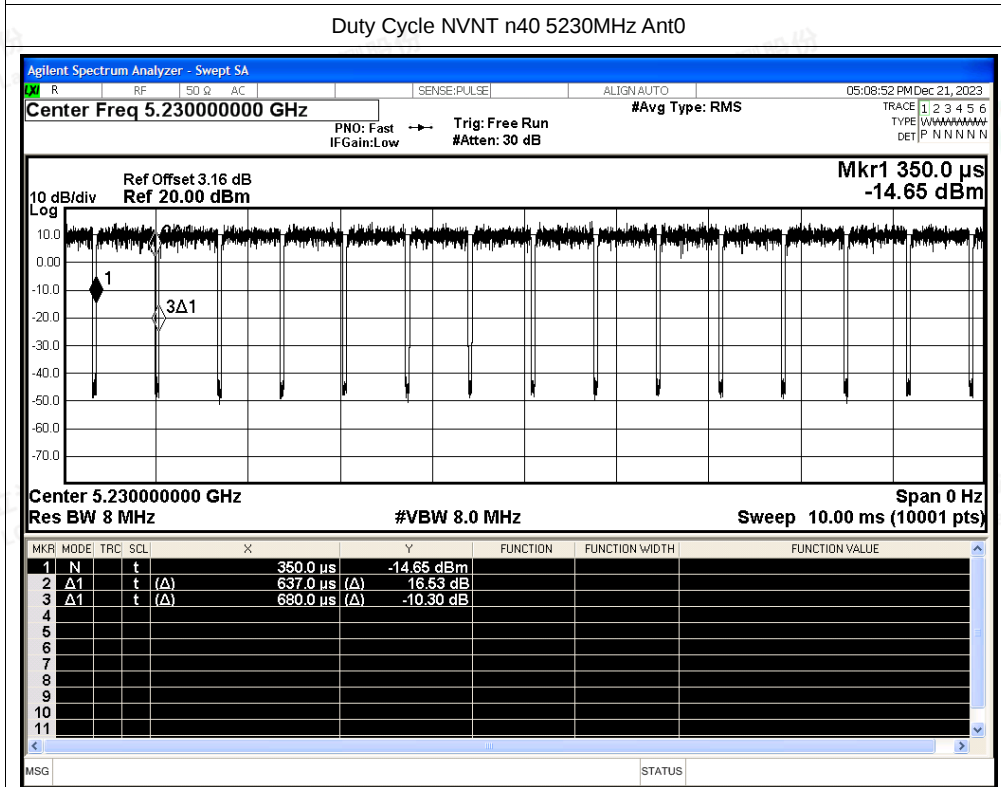
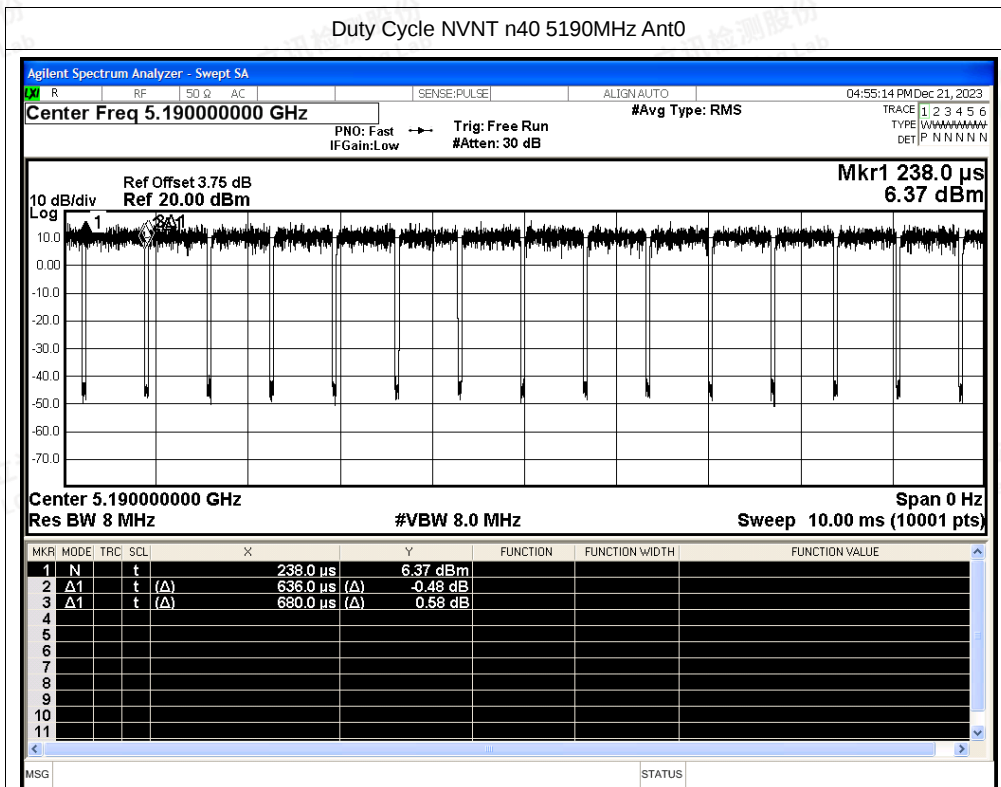


## Duty Cycle NVNT n20 5200MHz Ant0



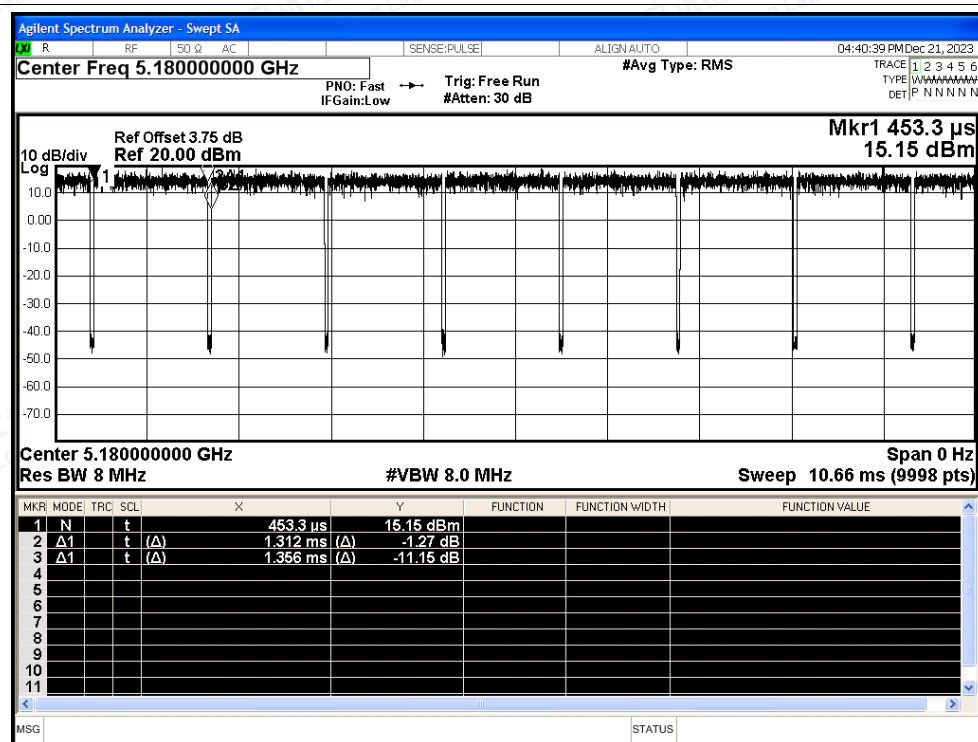
## Duty Cycle NVNT n20 5240MHz Ant0



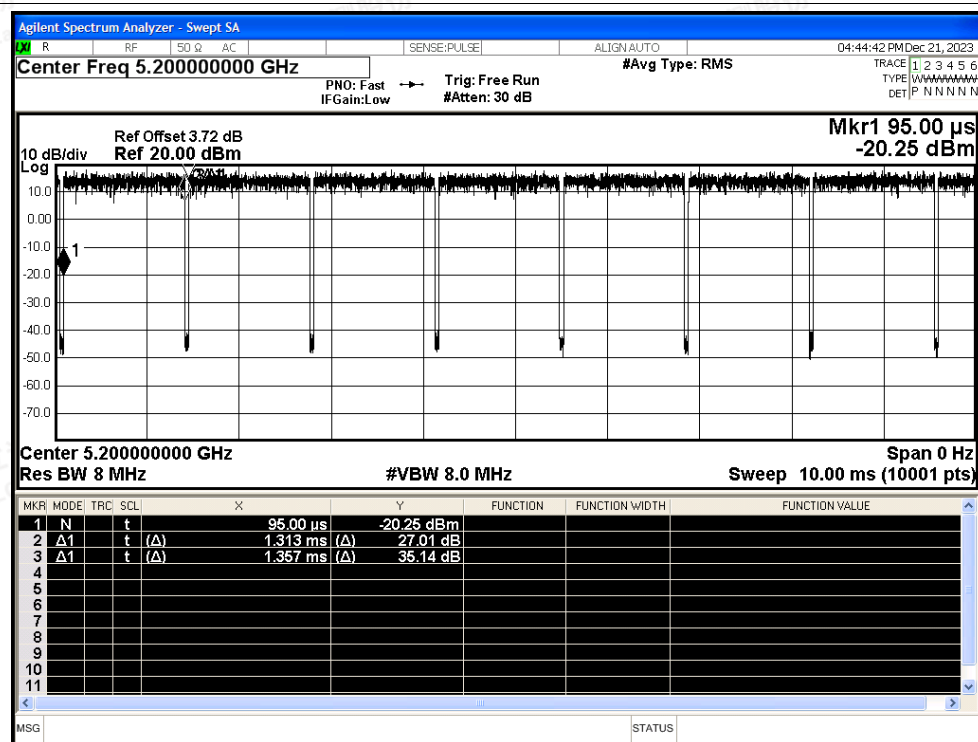




## Duty Cycle NVNT ac20 5180MHz Ant0



## Duty Cycle NVNT ac20 5200MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

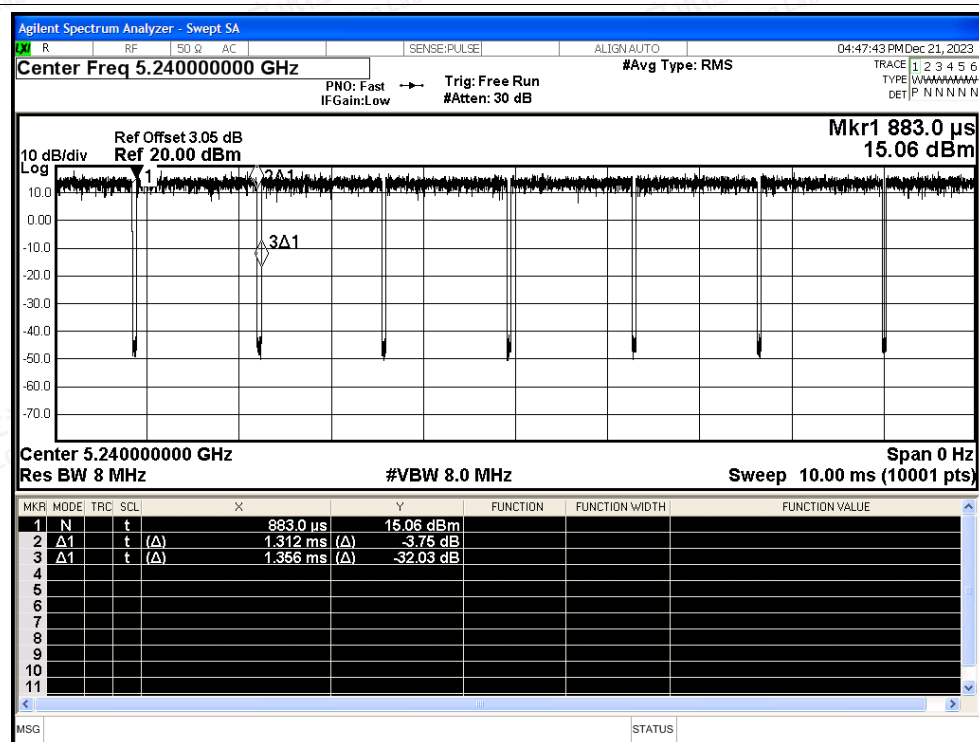
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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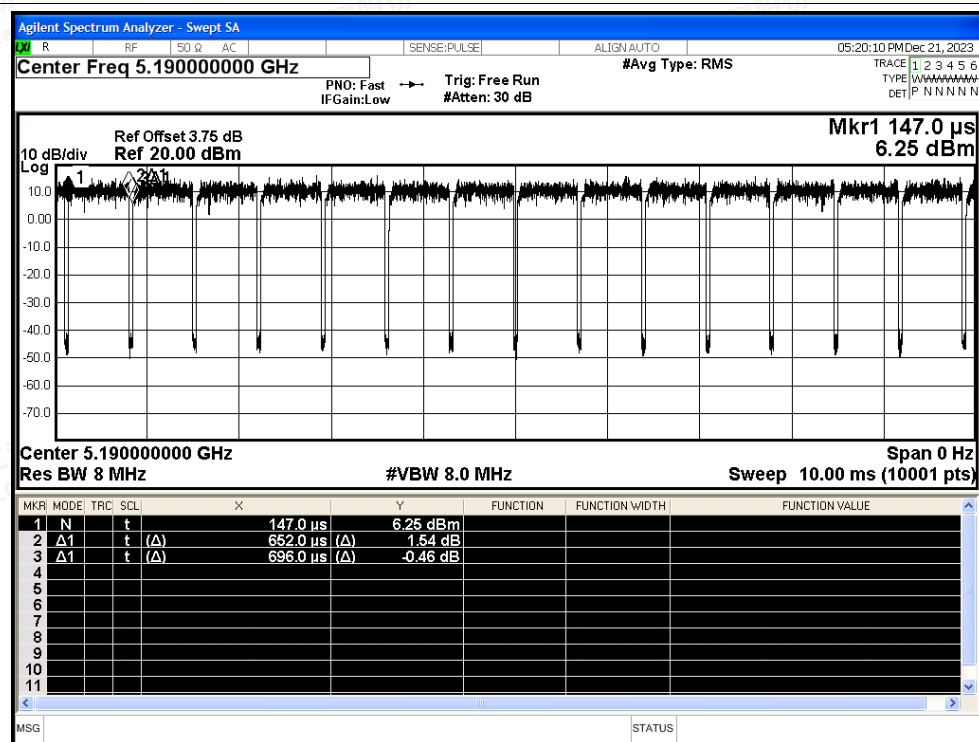
Scan code to check authenticity



## Duty Cycle NVNT ac20 5240MHz Ant0



## Duty Cycle NVNT ac40 5190MHz Ant0



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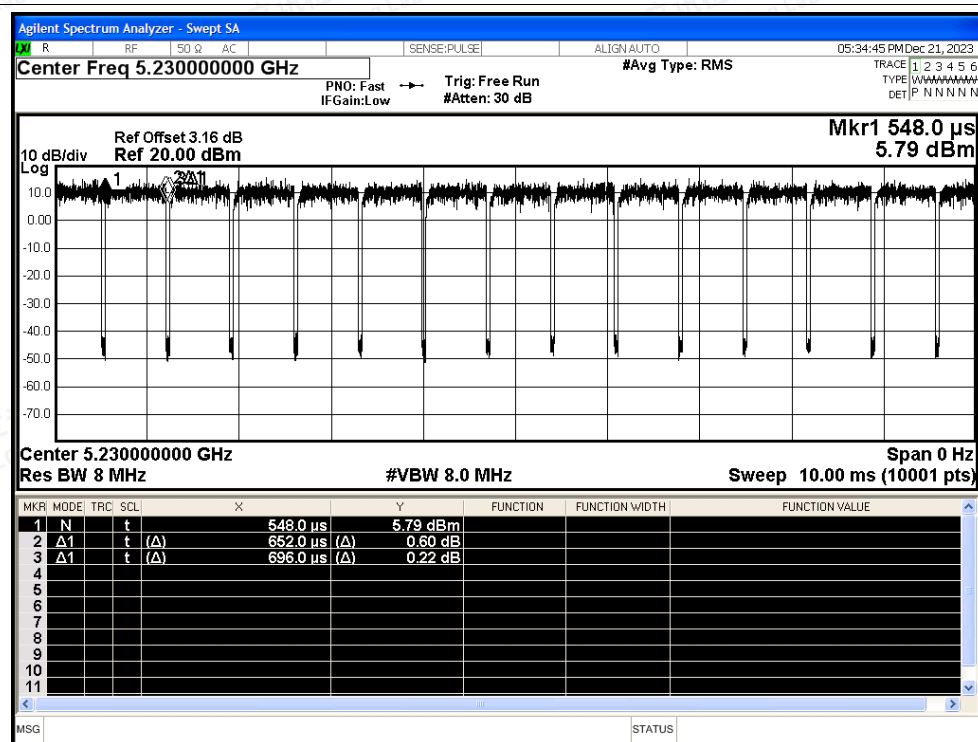
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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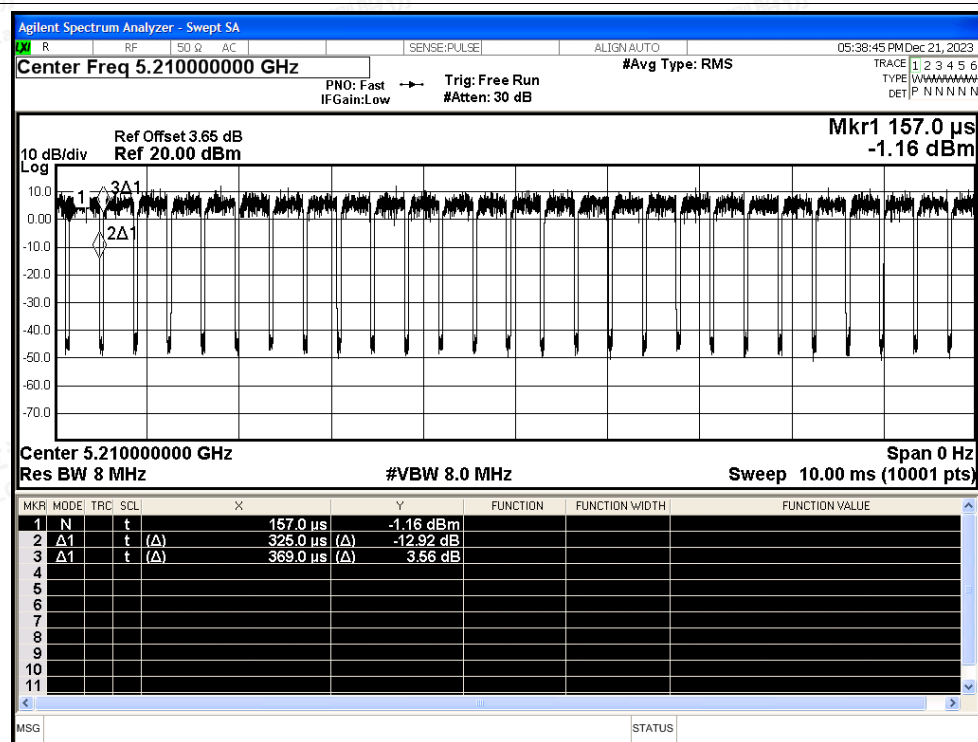
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## Duty Cycle NVNT ac40 5230MHz Ant0



## Duty Cycle NVNT ac80 5210MHz Ant0



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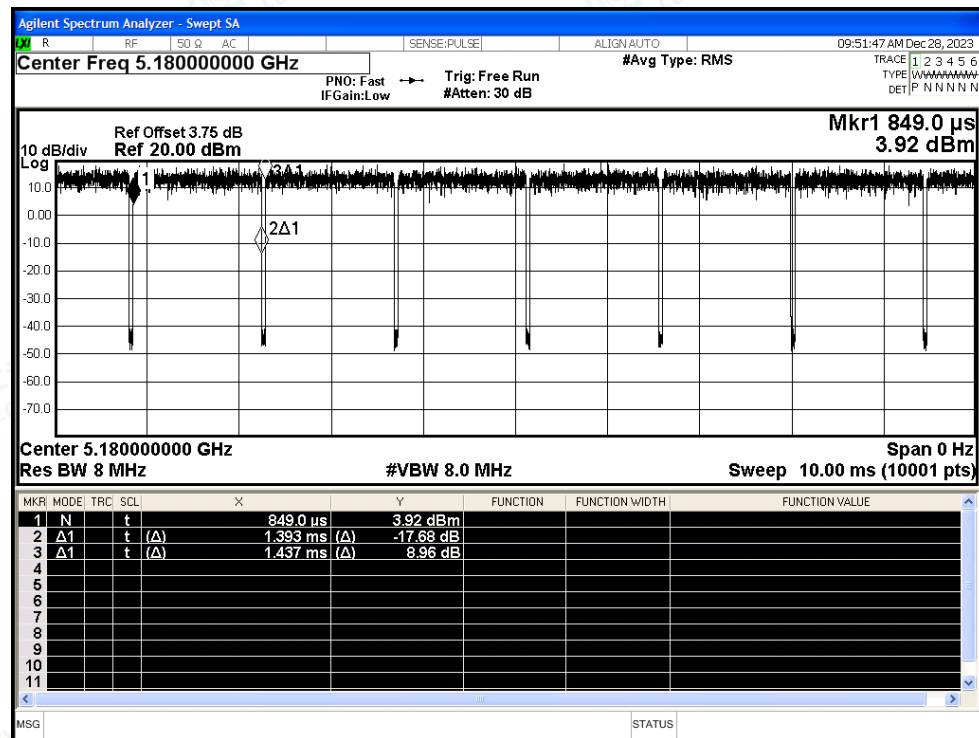
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5180            | Ant1    | 96.94          | 0.13                   | 0.72      |
| NVNT      | a    | 5200            | Ant1    | 96.94          | 0.13                   | 0.72      |
| NVNT      | a    | 5240            | Ant1    | 96.94          | 0.13                   | 0.72      |
| NVNT      | n20  | 5180            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n20  | 5200            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n20  | 5240            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n40  | 5190            | Ant1    | 93.79          | 0.28                   | 1.54      |
| NVNT      | n40  | 5230            | Ant1    | 93.64          | 0.29                   | 1.54      |
| NVNT      | ac20 | 5180            | Ant1    | 96.7           | 0.15                   | 0.76      |
| NVNT      | ac20 | 5200            | Ant1    | 96.76          | 0.14                   | 0.76      |
| NVNT      | ac20 | 5240            | Ant1    | 96.76          | 0.14                   | 0.76      |
| NVNT      | ac40 | 5190            | Ant1    | 93.69          | 0.28                   | 1.53      |
| NVNT      | ac40 | 5230            | Ant1    | 93.68          | 0.28                   | 1.53      |
| NVNT      | ac80 | 5210            | Ant1    | 88.08          | 0.55                   | 3.08      |



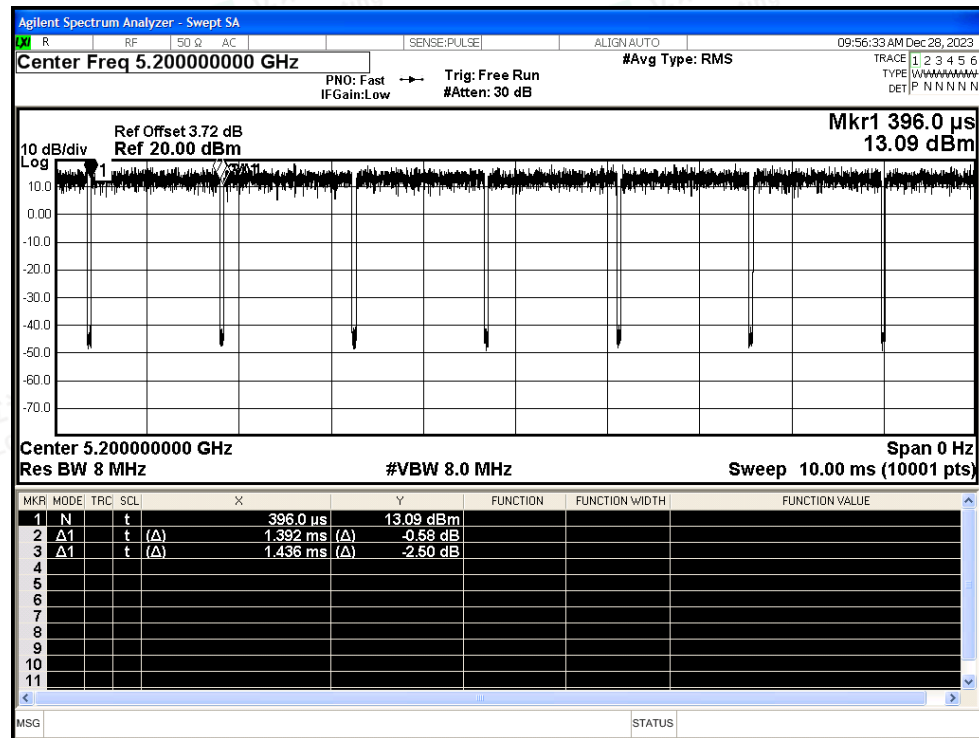


## Test Graphs

## Duty Cycle NVNT a 5180MHz Ant1



## Duty Cycle NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

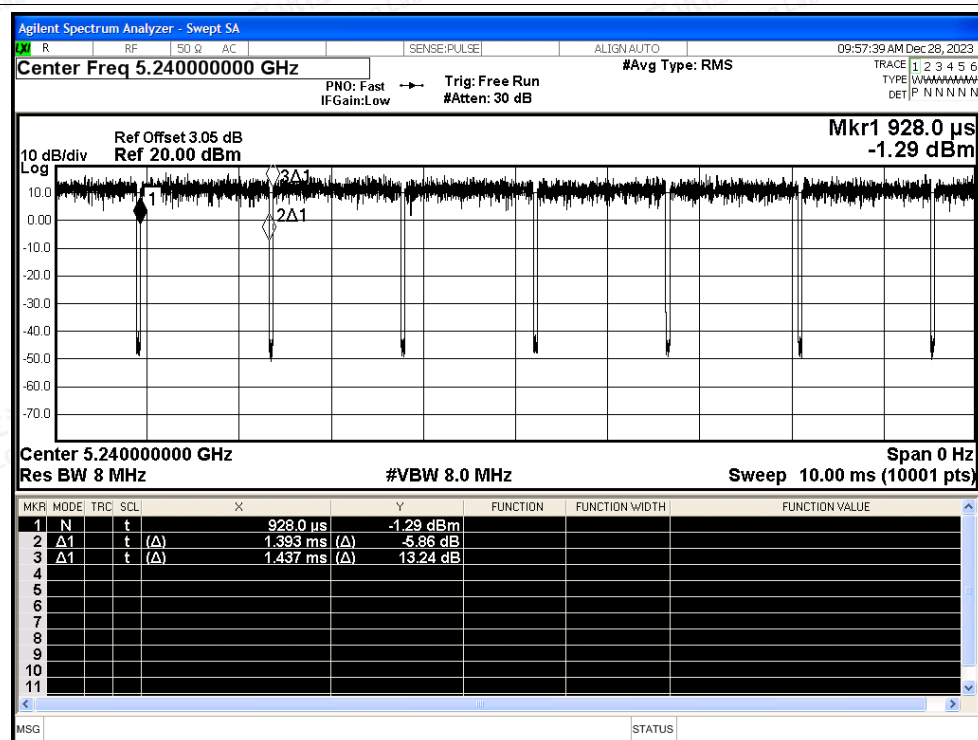
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

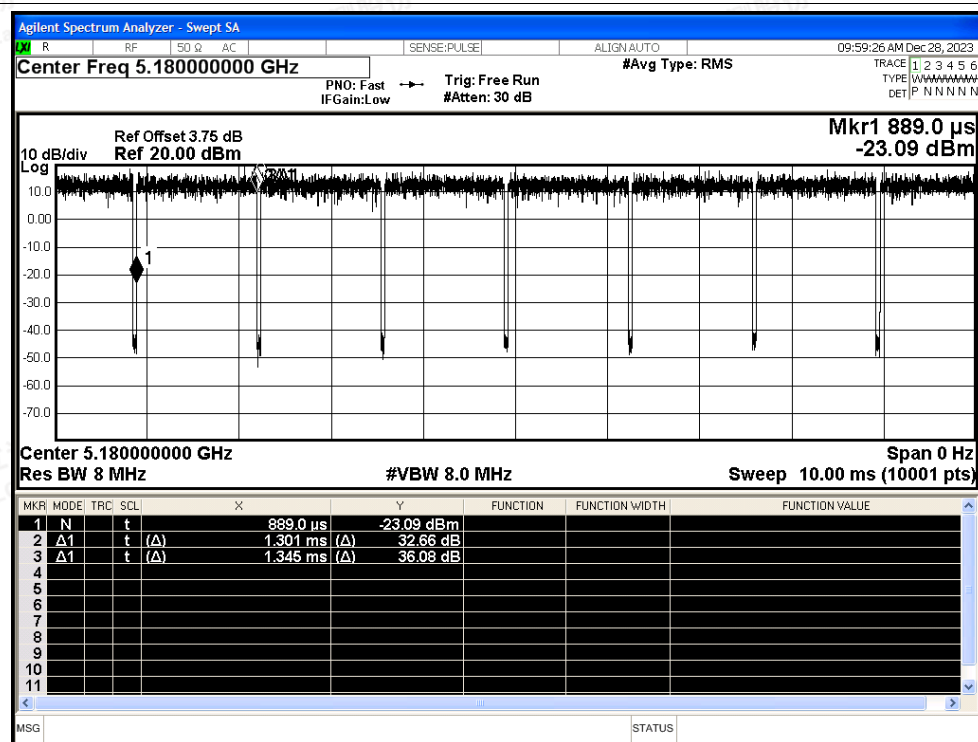
Scan code to check authenticity



## Duty Cycle NVNT a 5240MHz Ant1



## Duty Cycle NVNT n20 5180MHz Ant1



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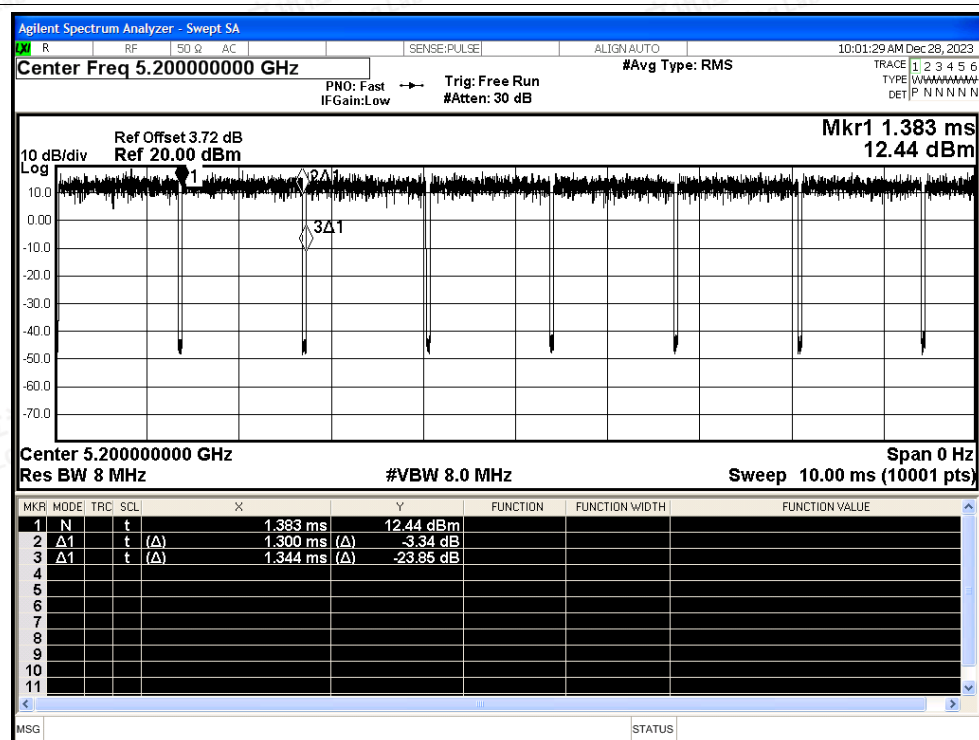
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

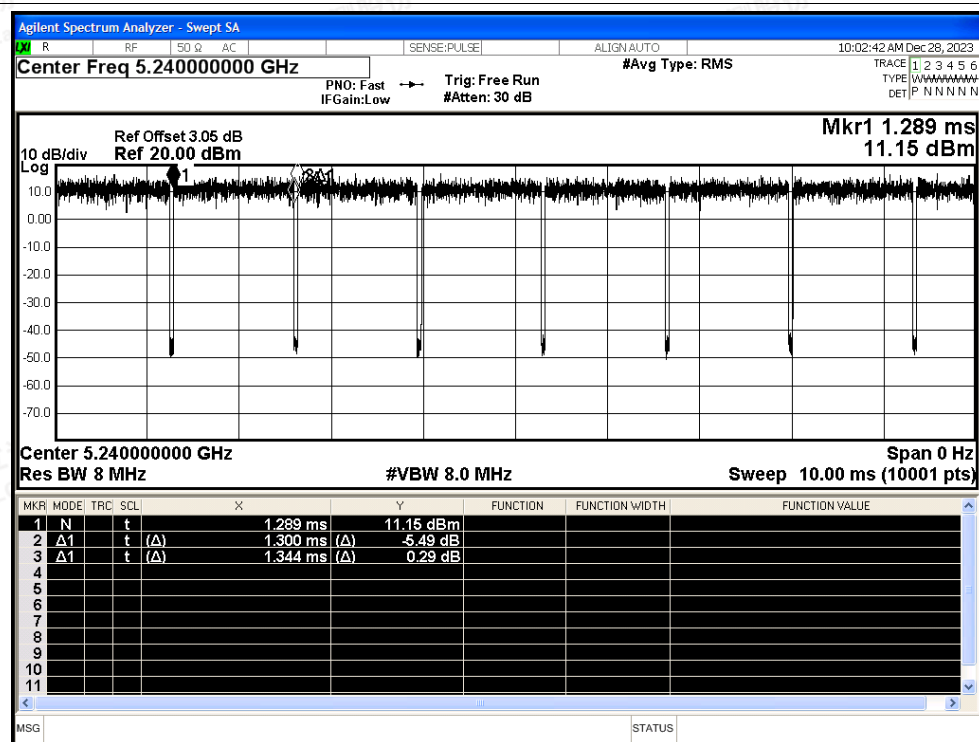
Scan code to check authenticity



## Duty Cycle NVNT n20 5200MHz Ant1



## Duty Cycle NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

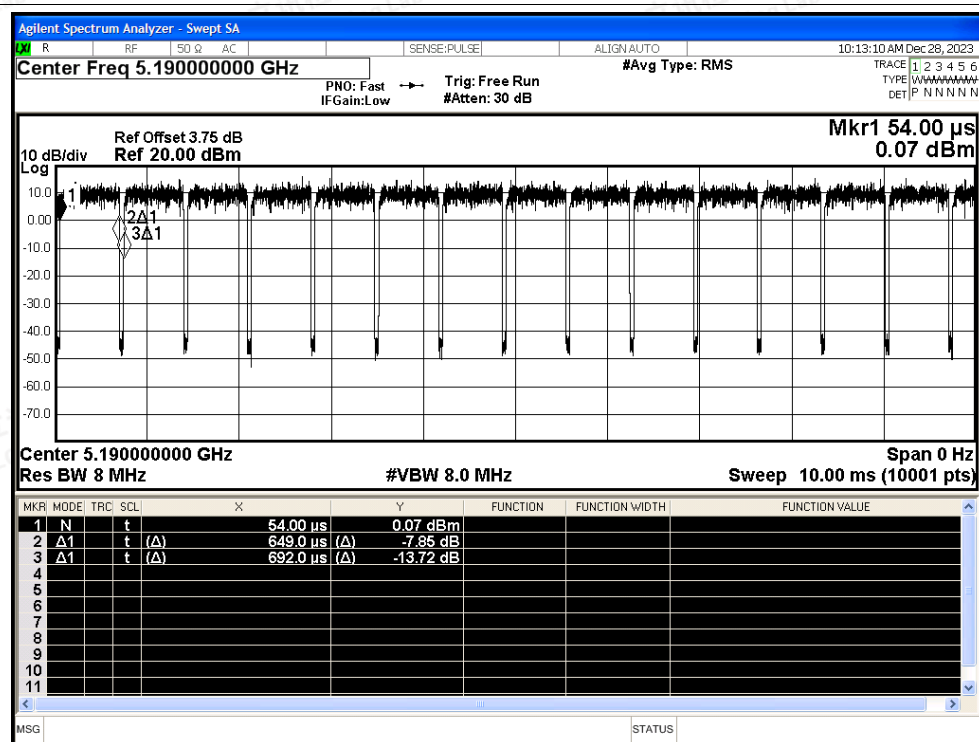
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

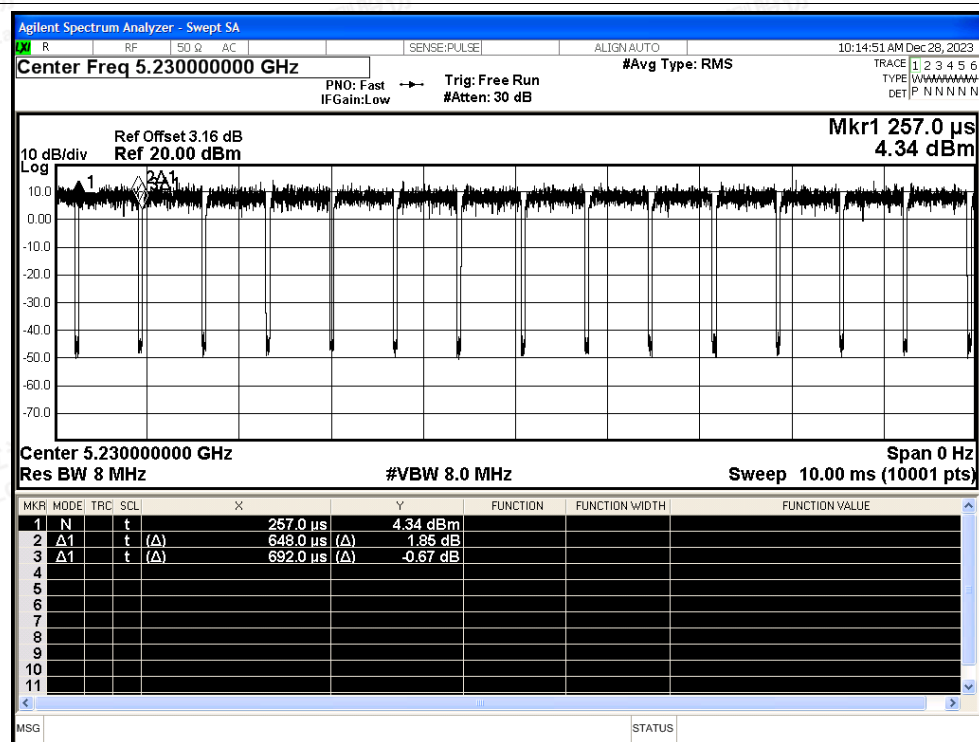
Scan code to check authenticity



## Duty Cycle NVNT n40 5190MHz Ant1

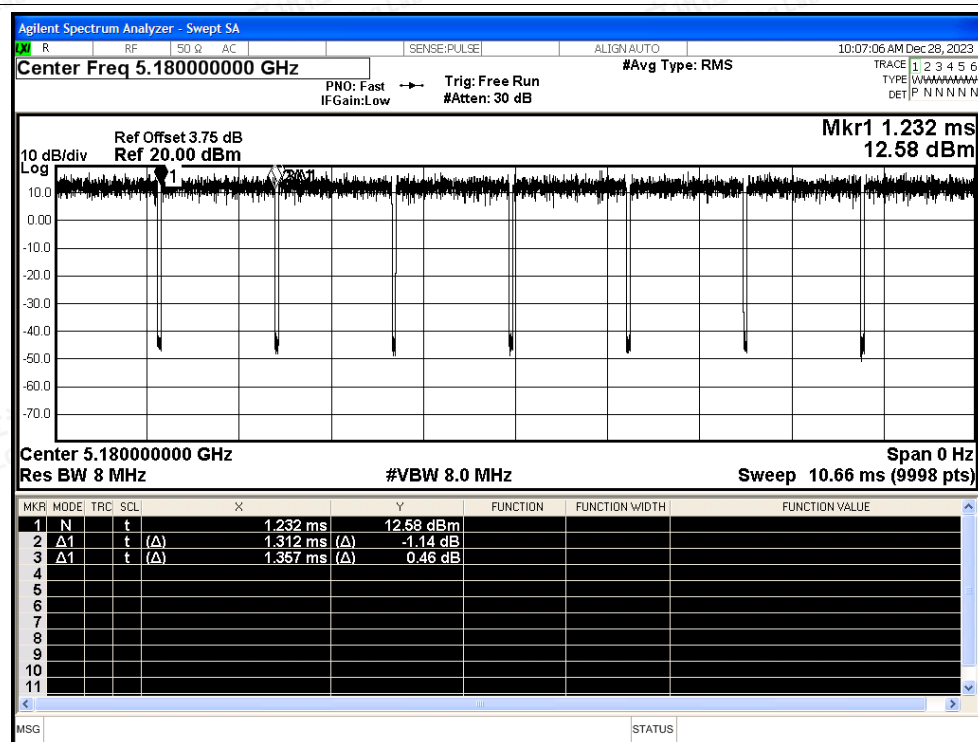


## Duty Cycle NVNT n40 5230MHz Ant1

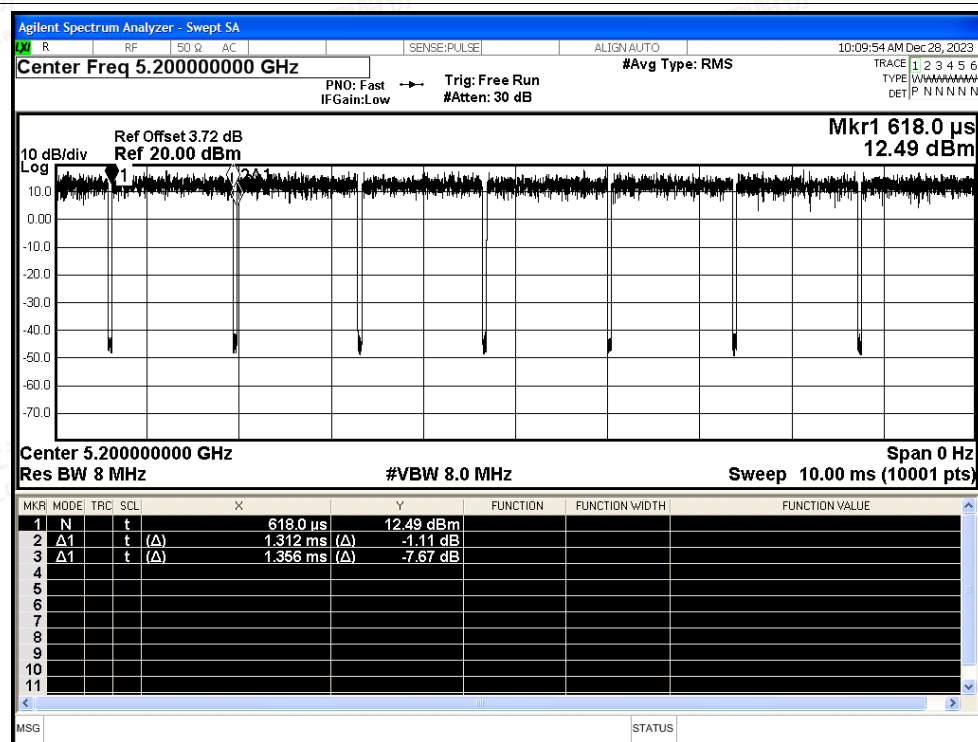




## Duty Cycle NVNT ac20 5180MHz Ant1

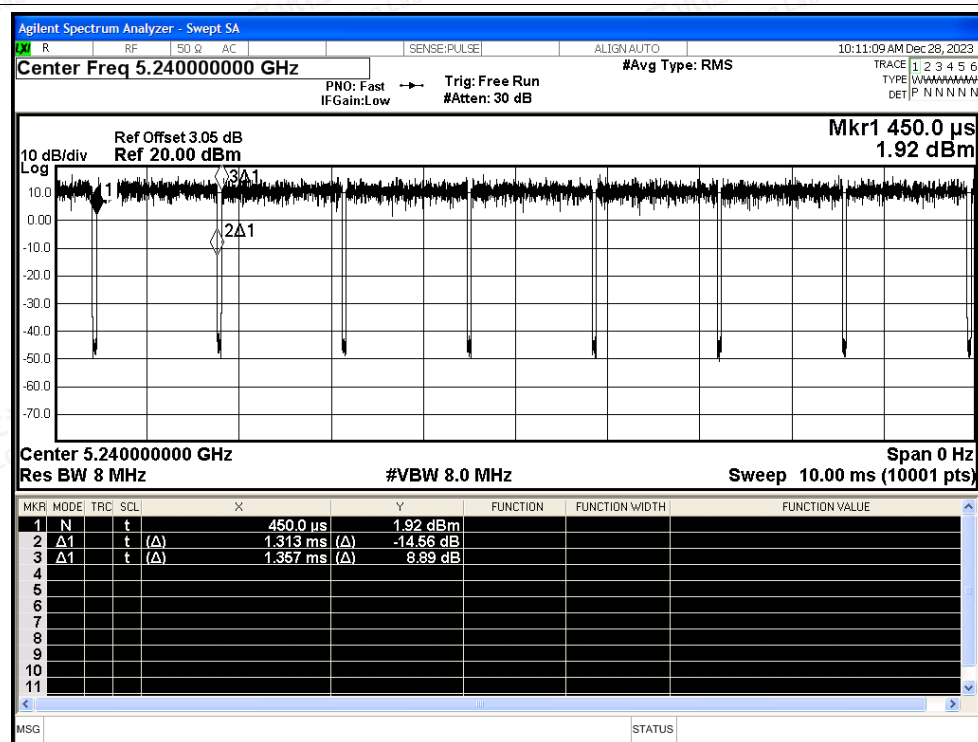


## Duty Cycle NVNT ac20 5200MHz Ant1

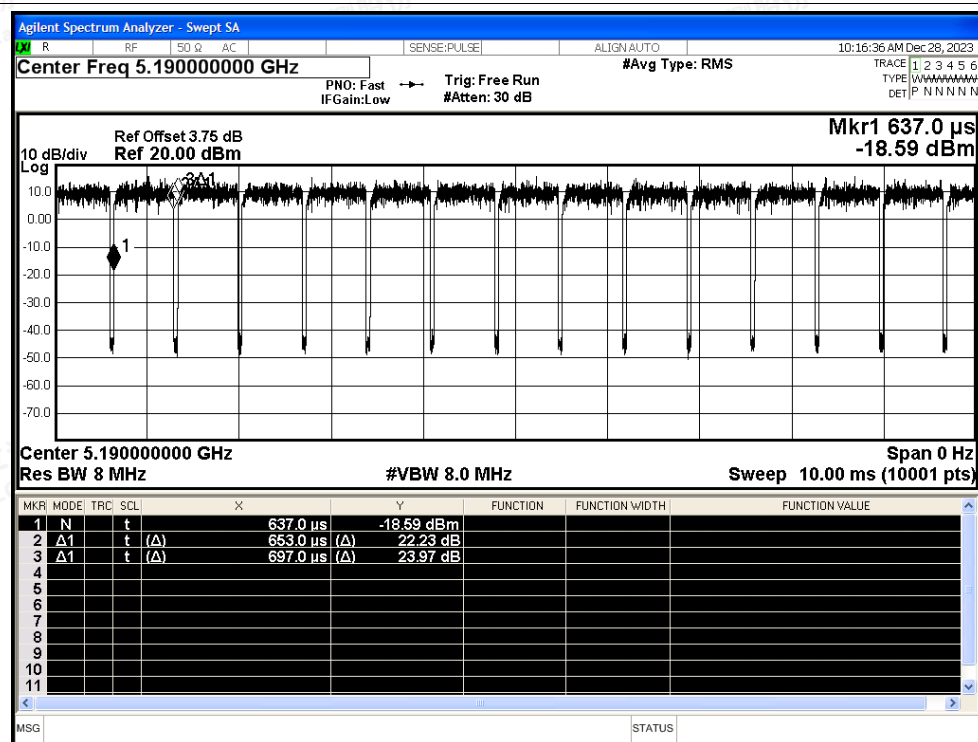




## Duty Cycle NVNT ac20 5240MHz Ant1



## Duty Cycle NVNT ac40 5190MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

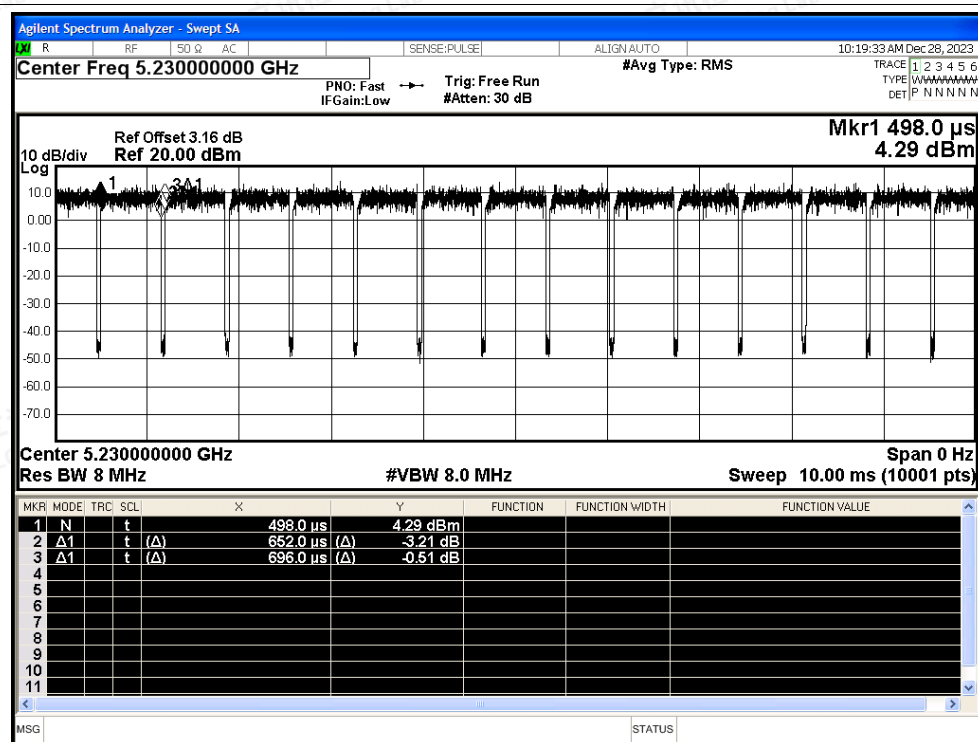
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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## Duty Cycle NVNT ac40 5230MHz Ant1



## Duty Cycle NVNT ac80 5210MHz Ant1

