



## Appendix C

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

**Product Name: Projector**

**Test Model: Q5 Max**

#### Environmental Conditions

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



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 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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## C.1 -26dB Bandwidth

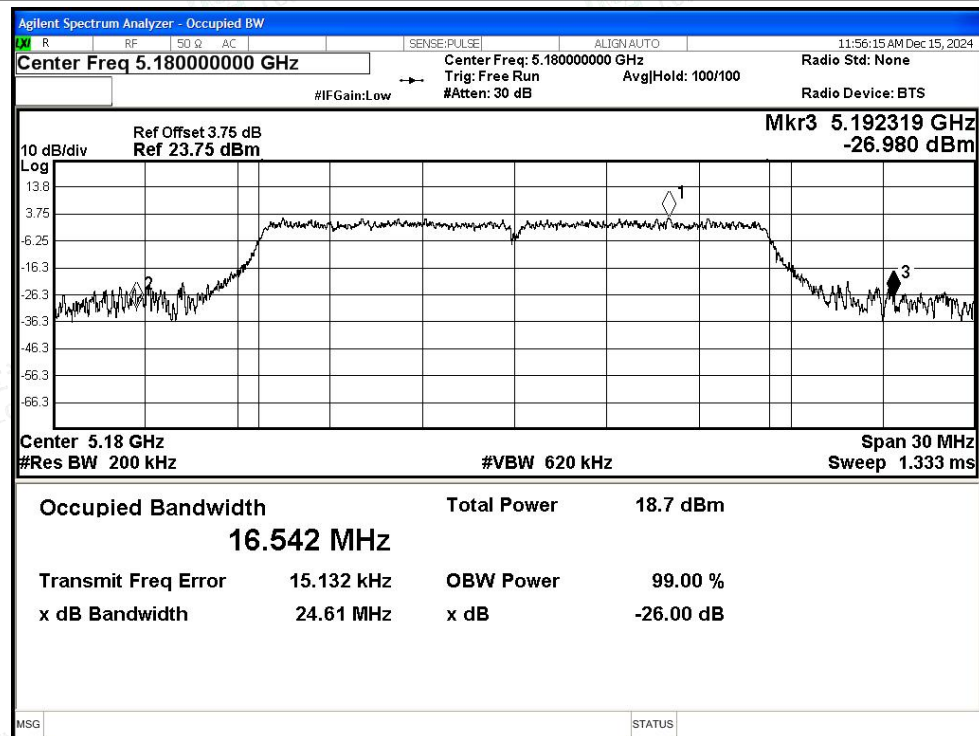
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 24.607                 | $\geq 0.5$                   | Pass    |
| NVNT      | a    | 5200            | Ant1    | 23.496                 | $\geq 0.5$                   | Pass    |
| NVNT      | a    | 5240            | Ant1    | 22.056                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 23.786                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 25.688                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 25.42                  | $\geq 0.5$                   | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 26.289                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 25.117                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 27.723                 | $\geq 0.5$                   | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 27.397                 | $\geq 0.5$                   | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 27.589                 | $\geq 0.5$                   | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 27.098                 | $\geq 0.5$                   | Pass    |



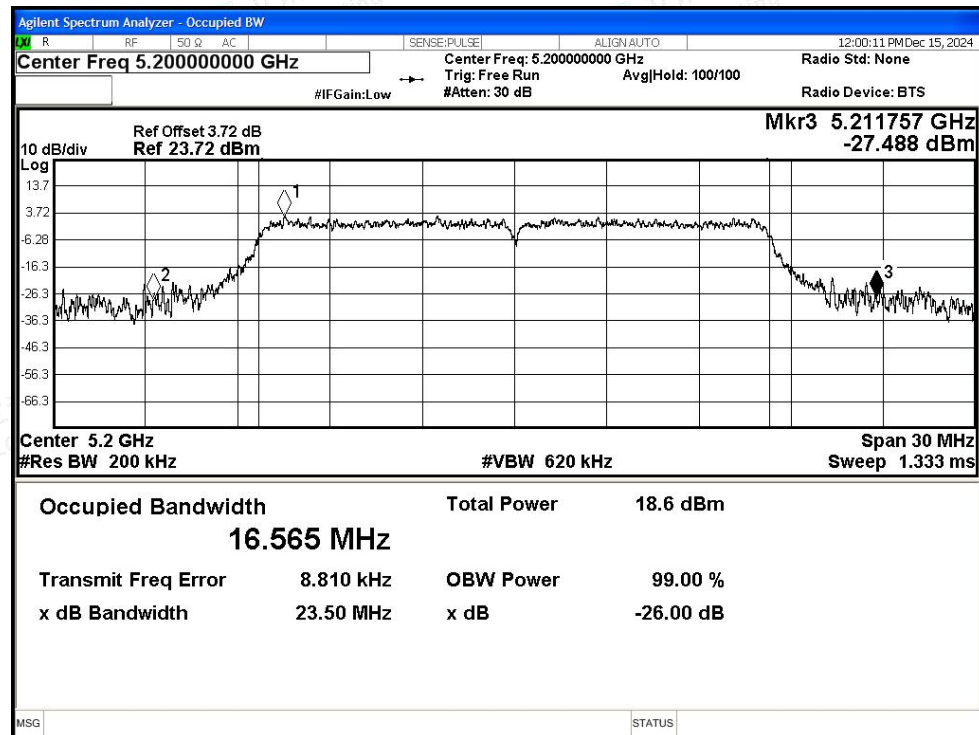


## Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

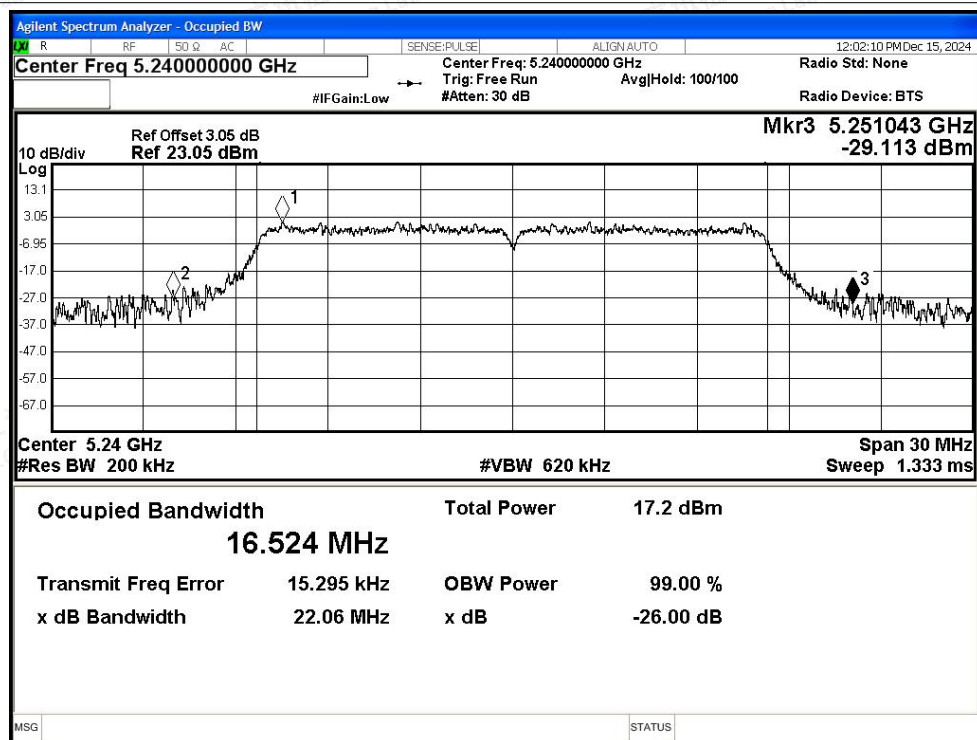


-26dB Bandwidth NVNT a 5200MHz Ant1

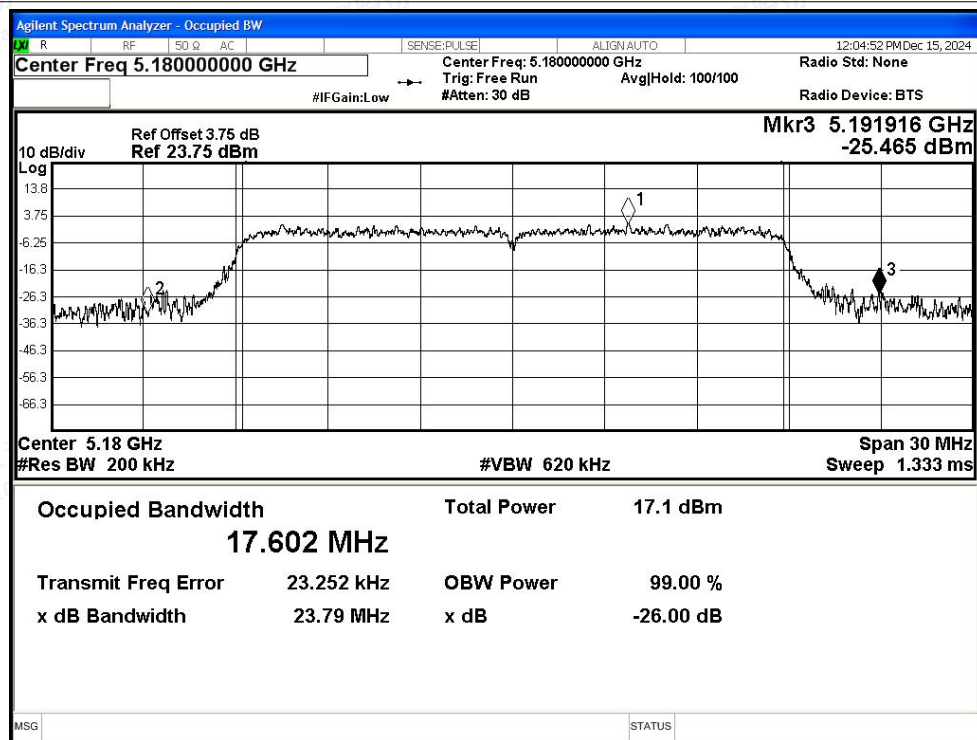


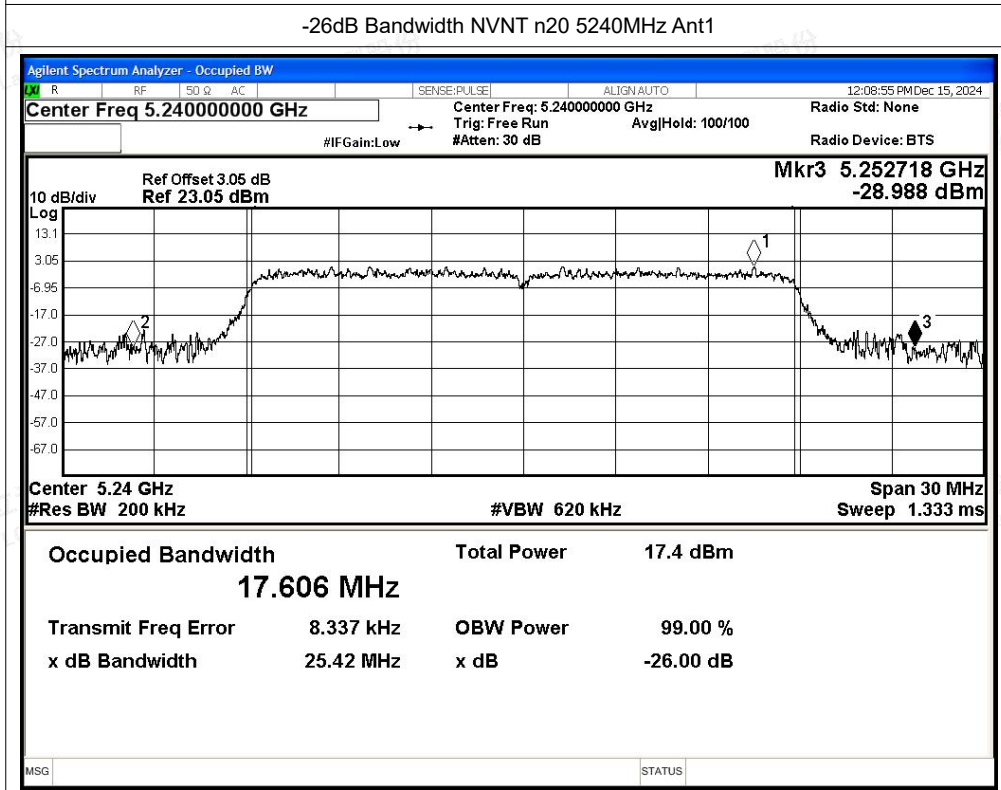
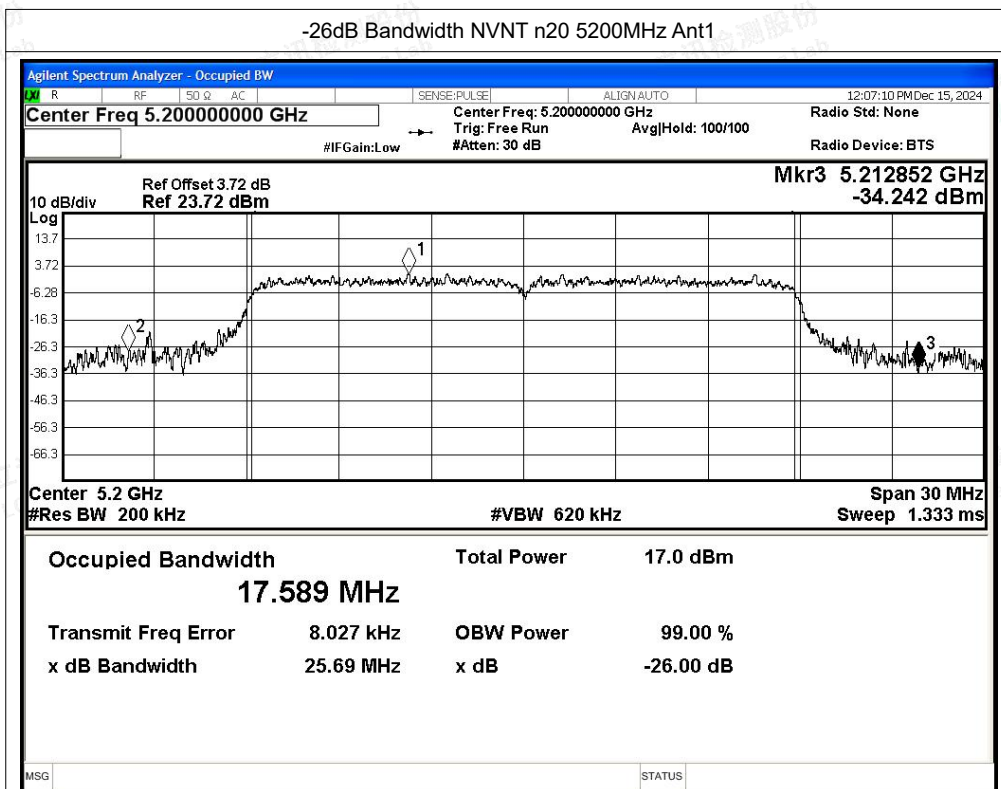


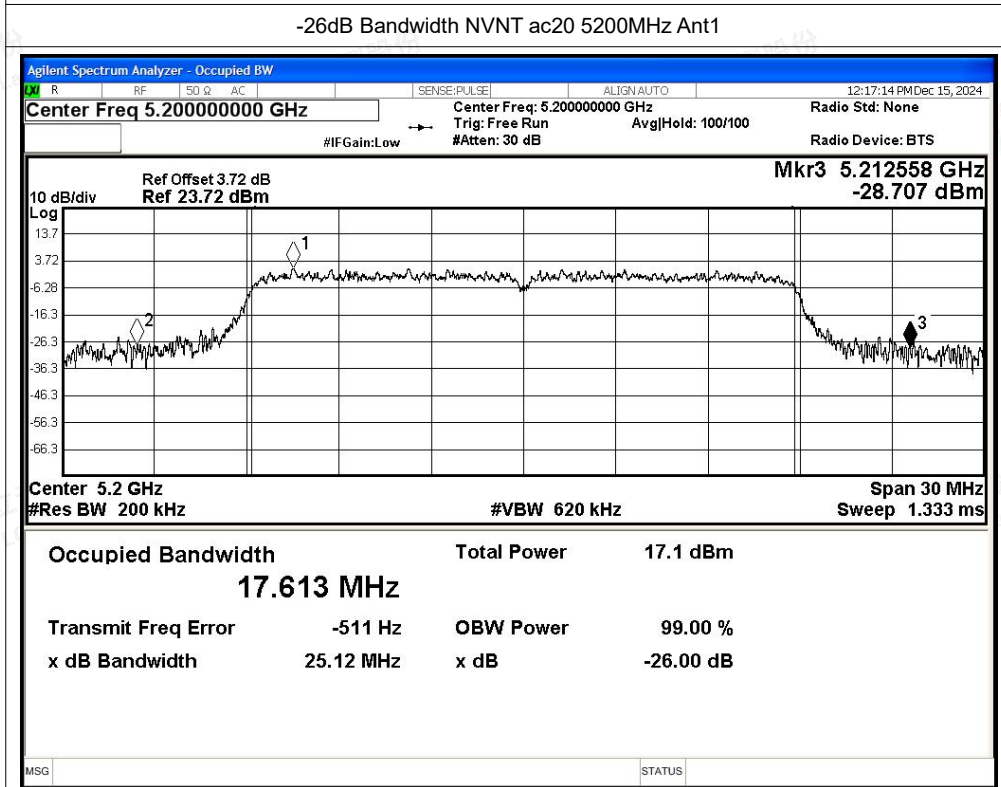
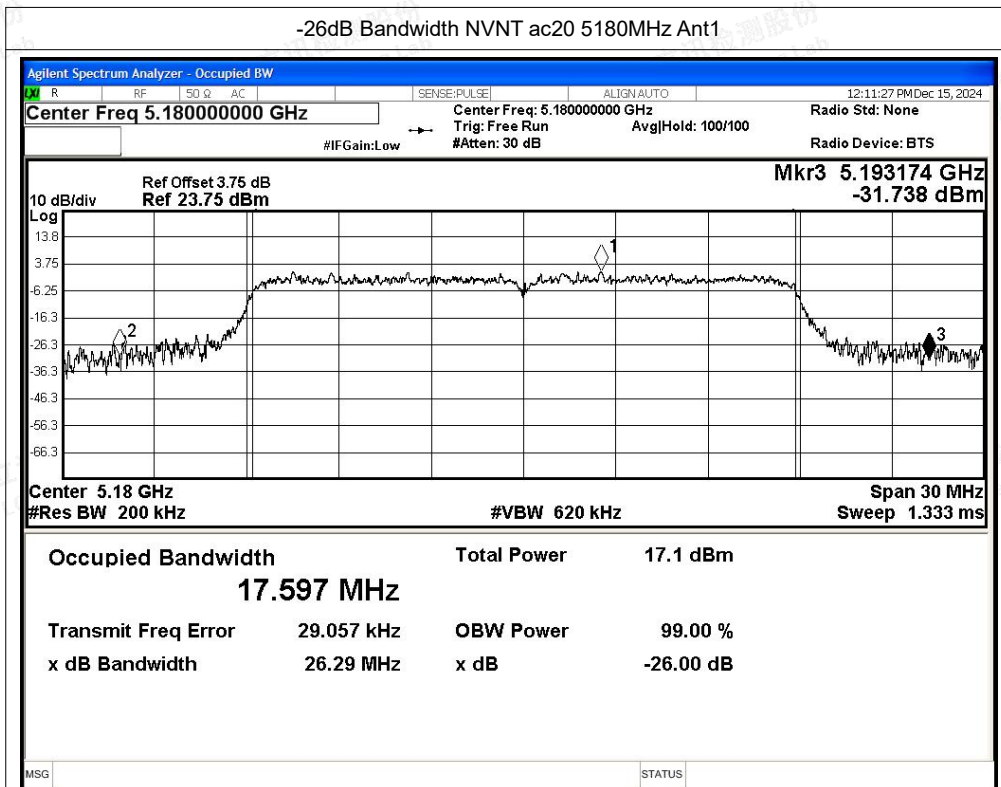
## -26dB Bandwidth NVNT a 5240MHz Ant1



## -26dB Bandwidth NVNT n20 5180MHz Ant1



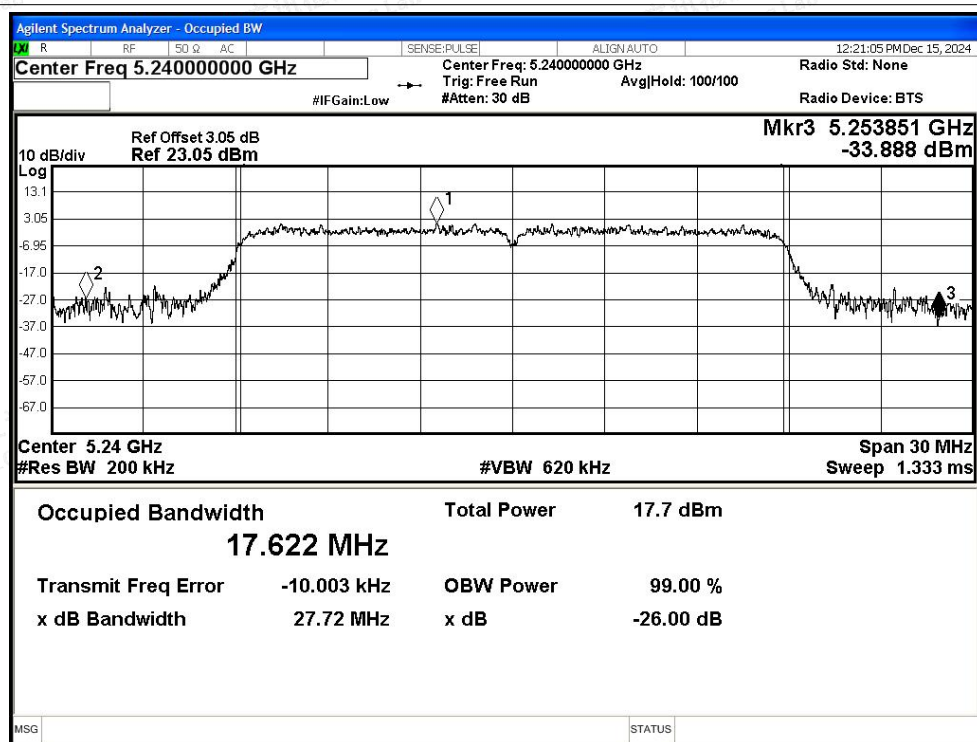




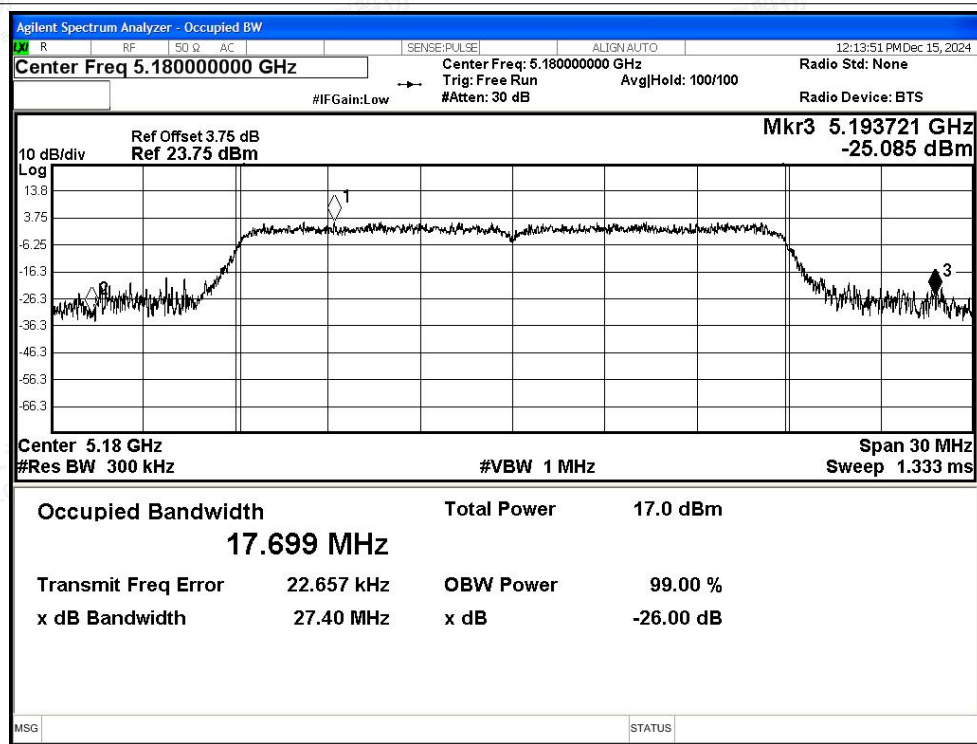




## -26dB Bandwidth NVNT ac20 5240MHz Ant1



## -26dB Bandwidth NVNT ax20 5180MHz Ant1

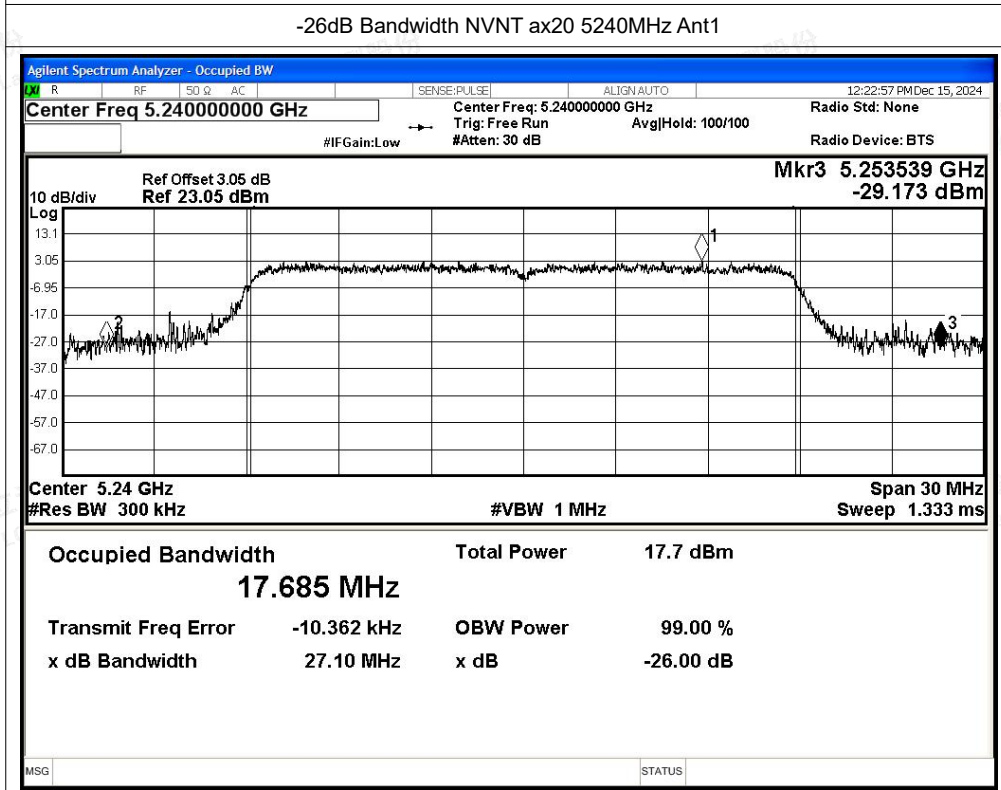
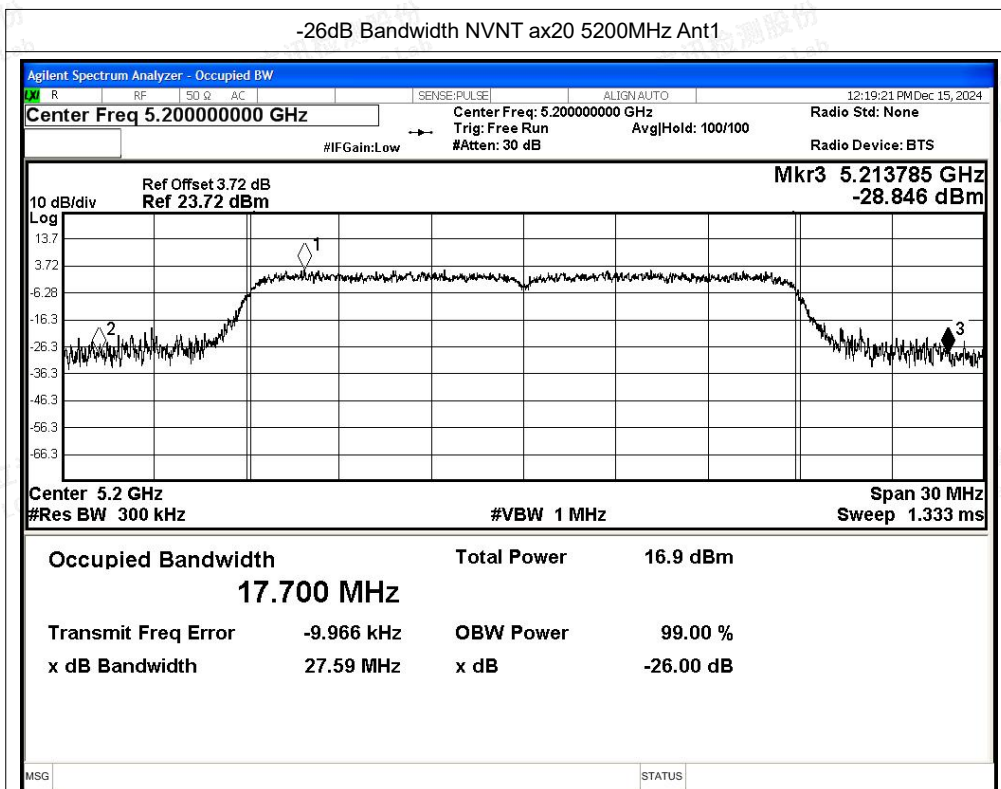


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Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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## C.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Duty Factor<br>(dB) | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|------|--------------------|---------|--------------------------|---------------------|----------------------|----------------|---------|
| NVNT      | a    | 5180               | Ant1    | 13.05                    | 0.24                | 13.29                | 24             | Pass    |
| NVNT      | a    | 5200               | Ant1    | 12.89                    | 0.24                | 13.13                | 24             | Pass    |
| NVNT      | a    | 5240               | Ant1    | 11.44                    | 0.24                | 11.68                | 24             | Pass    |
| NVNT      | n20  | 5180               | Ant1    | 11.32                    | 0.28                | 11.60                | 24             | Pass    |
| NVNT      | n20  | 5200               | Ant1    | 11.21                    | 0.28                | 11.49                | 24             | Pass    |
| NVNT      | n20  | 5240               | Ant1    | 11.64                    | 0.28                | 11.92                | 24             | Pass    |
| NVNT      | ac20 | 5180               | Ant1    | 11.37                    | 0.28                | 11.65                | 24             | Pass    |
| NVNT      | ac20 | 5200               | Ant1    | 11.23                    | 0.28                | 11.51                | 24             | Pass    |
| NVNT      | ac20 | 5240               | Ant1    | 11.93                    | 0.28                | 12.21                | 24             | Pass    |
| NVNT      | ax20 | 5180               | Ant1    | 11.35                    | 0.28                | 11.63                | 24             | Pass    |
| NVNT      | ax20 | 5200               | Ant1    | 11.32                    | 0.28                | 11.60                | 24             | Pass    |
| NVNT      | ax20 | 5240               | Ant1    | 12.02                    | 0.28                | 12.30                | 24             | Pass    |



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,  
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### C.3 Maximum Power Spectral Density Level

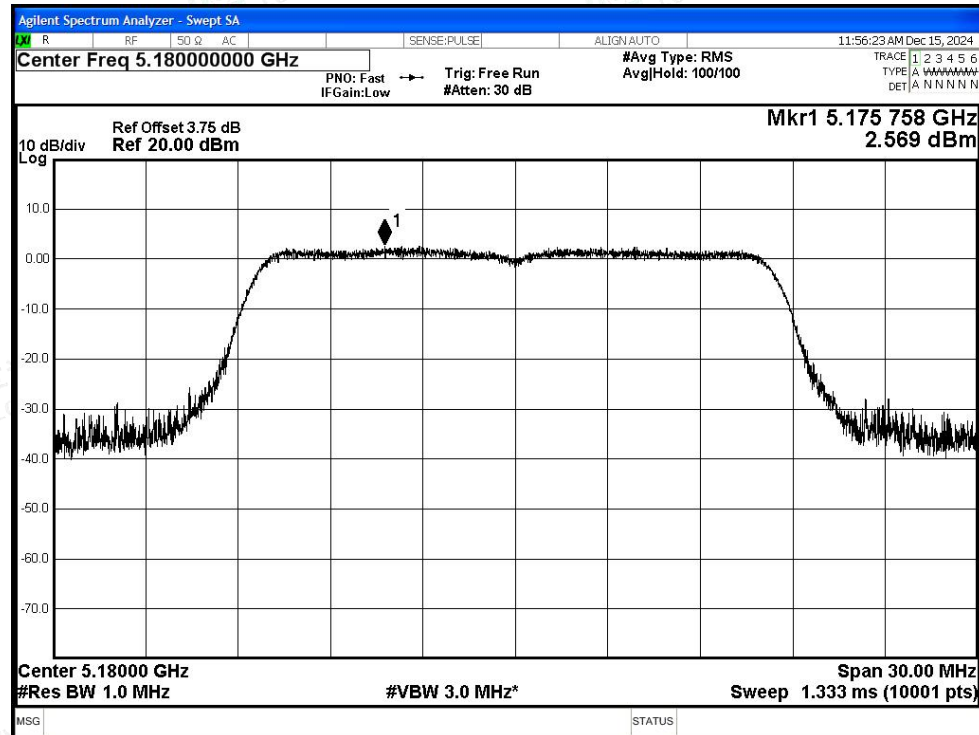
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 2.57                | 0.24             | 2.81            | 11          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 2.14                | 0.24             | 2.38            | 11          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 1.17                | 0.24             | 1.41            | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 0.71                | 0.28             | 0.99            | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 0.56                | 0.28             | 0.84            | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 0.78                | 0.28             | 1.06            | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 0.56                | 0.28             | 0.84            | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 0.61                | 0.28             | 0.89            | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 1.17                | 0.28             | 1.45            | 11          | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 0.54                | 0.28             | 0.82            | 11          | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 0.44                | 0.28             | 0.72            | 11          | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 1.31                | 0.28             | 1.59            | 11          | Pass    |



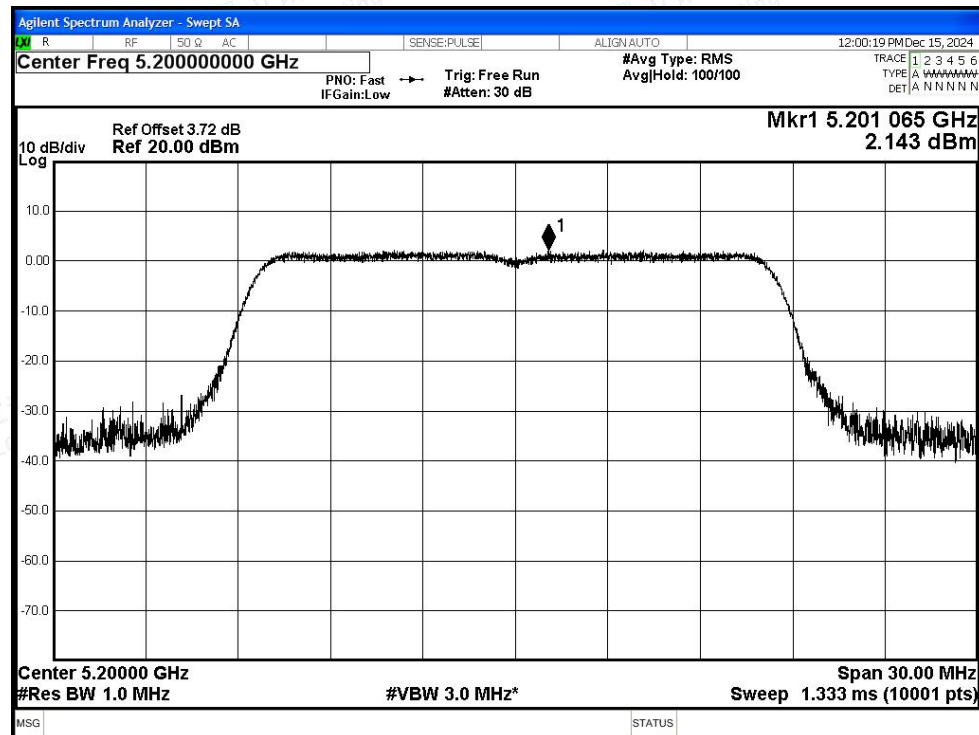


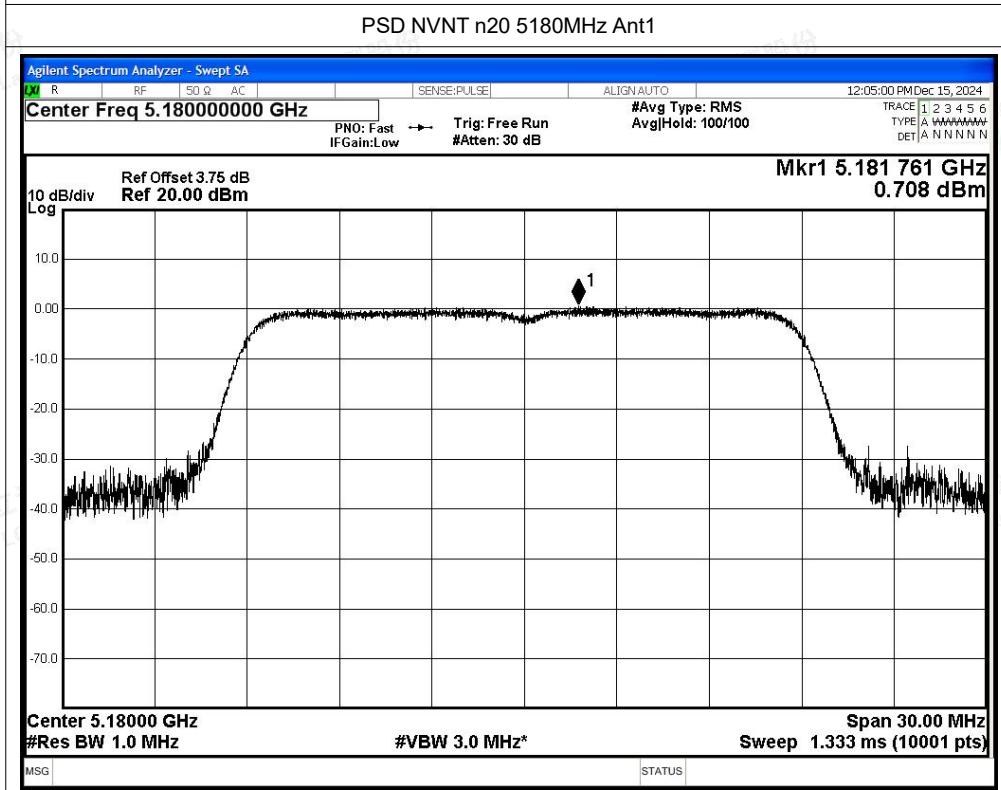
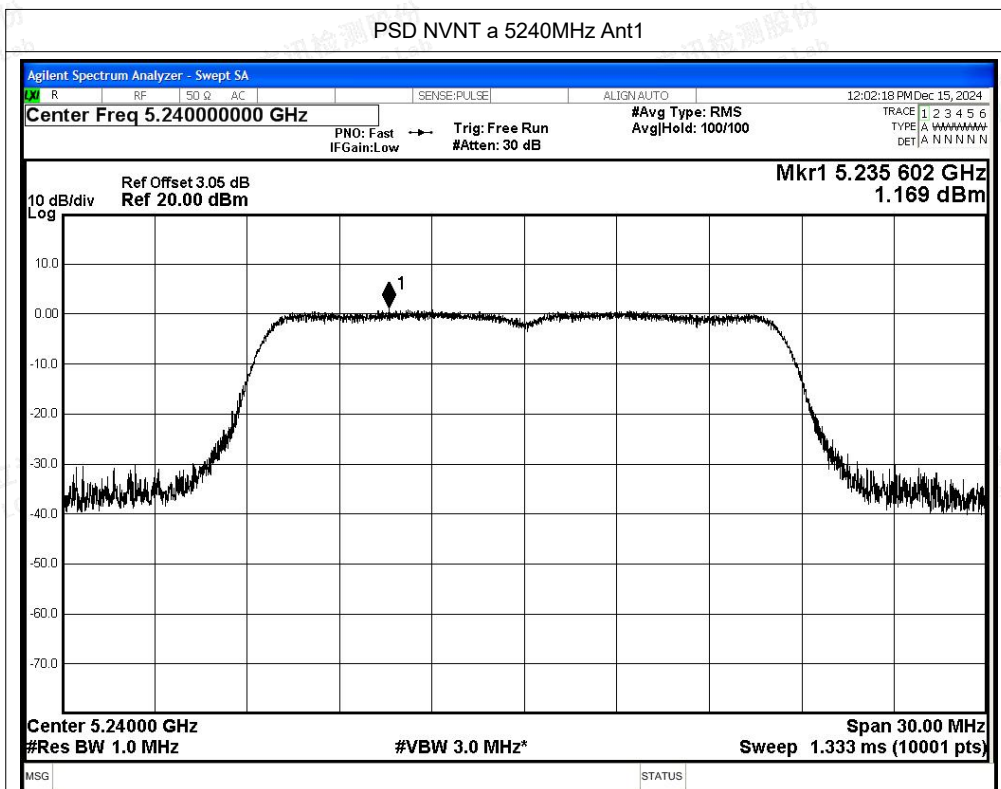
## Test Graphs

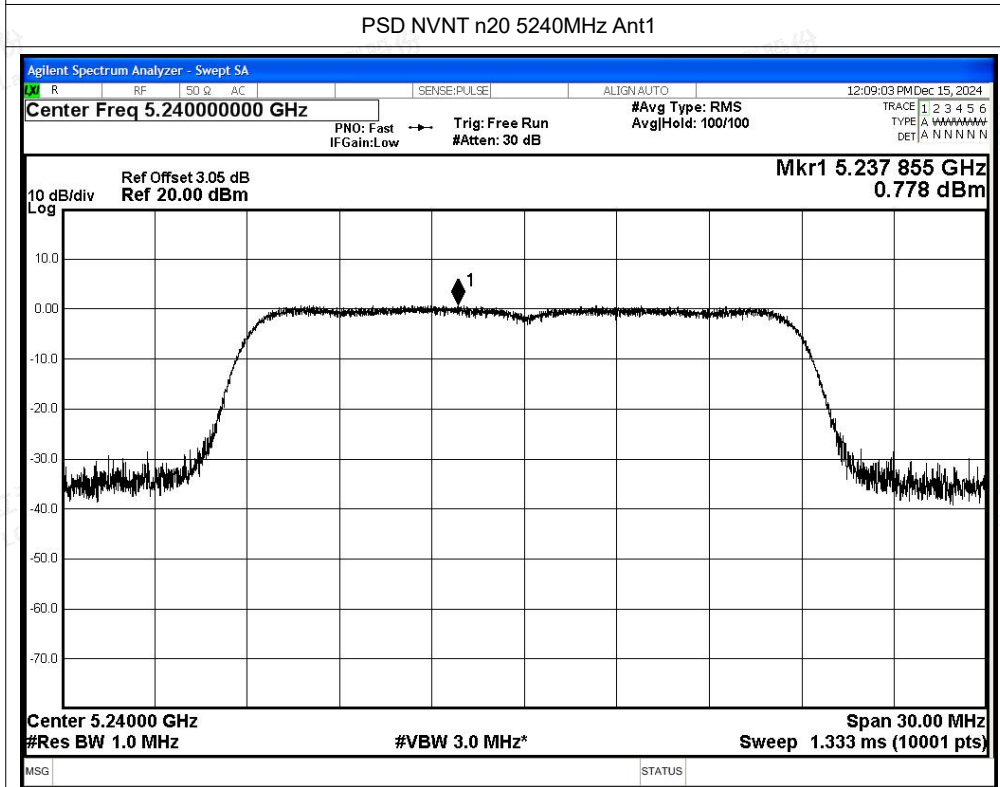
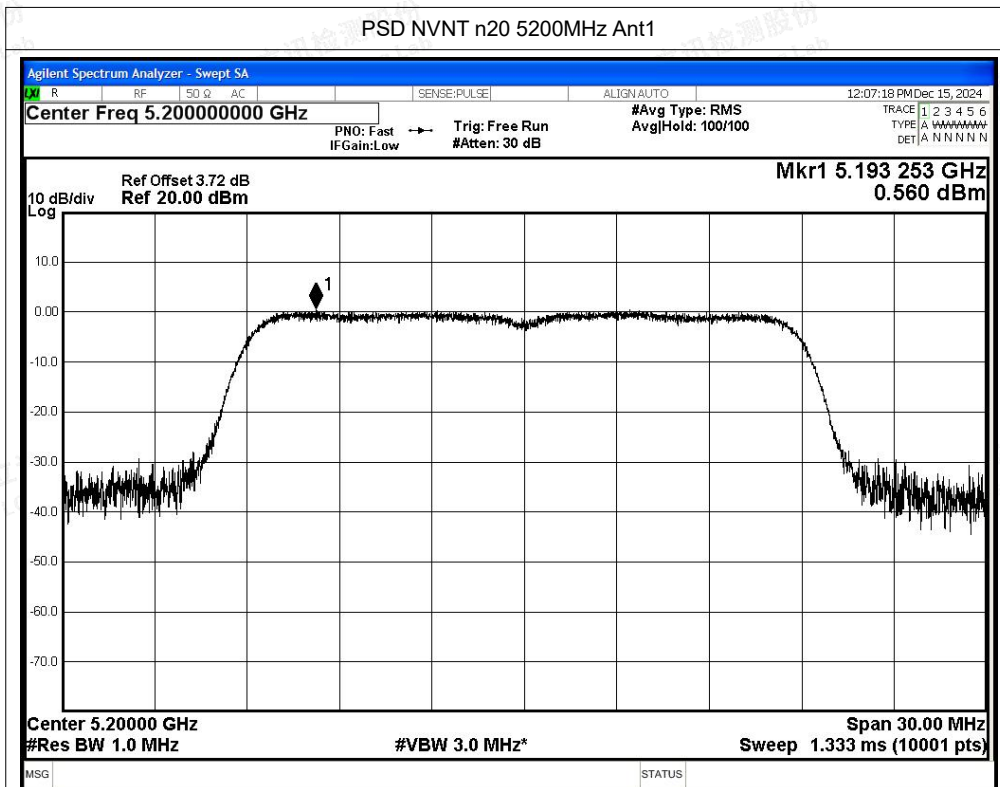
PSD NVNT a 5180MHz Ant1

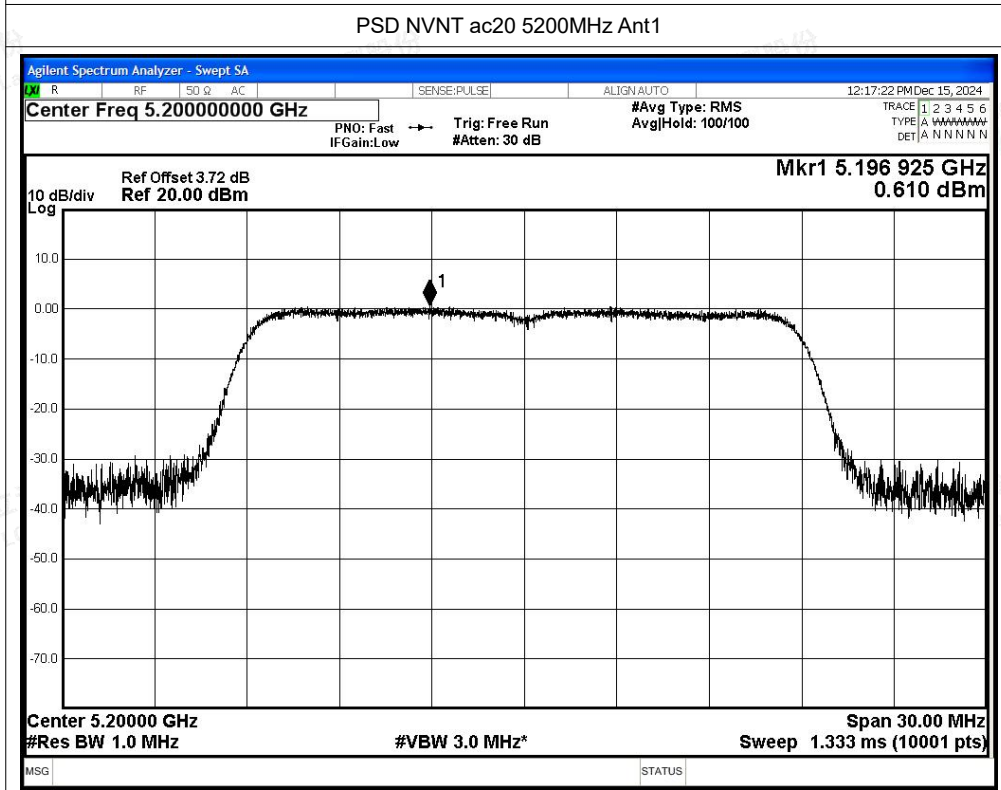
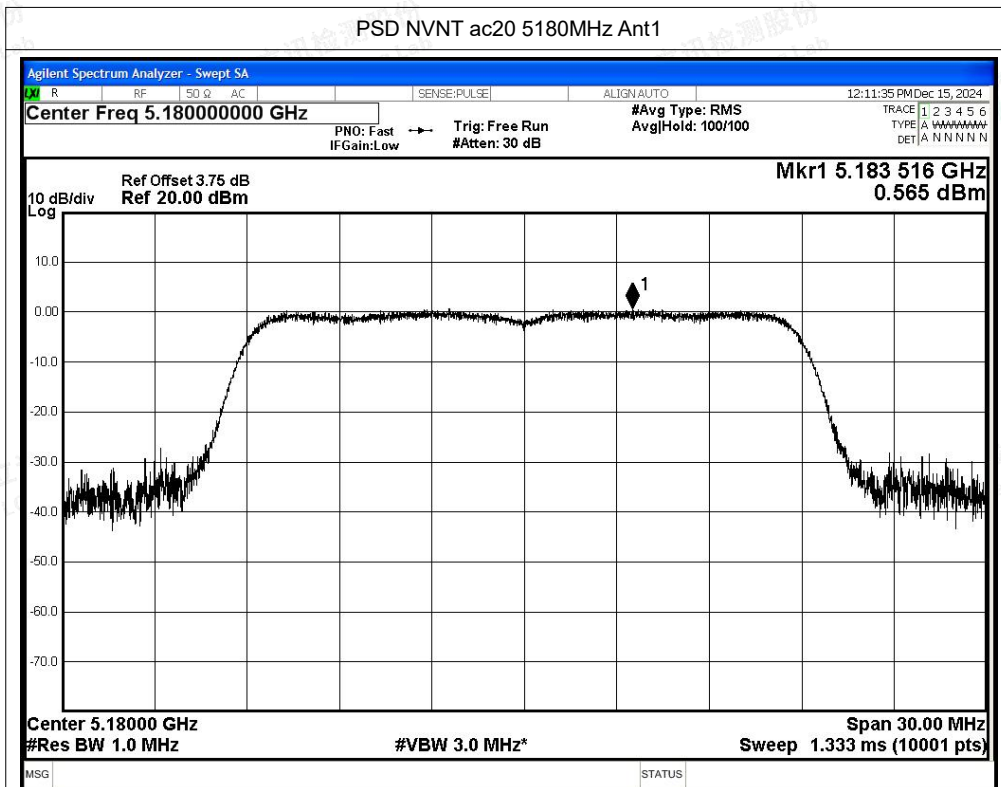


PSD NVNT a 5200MHz Ant1

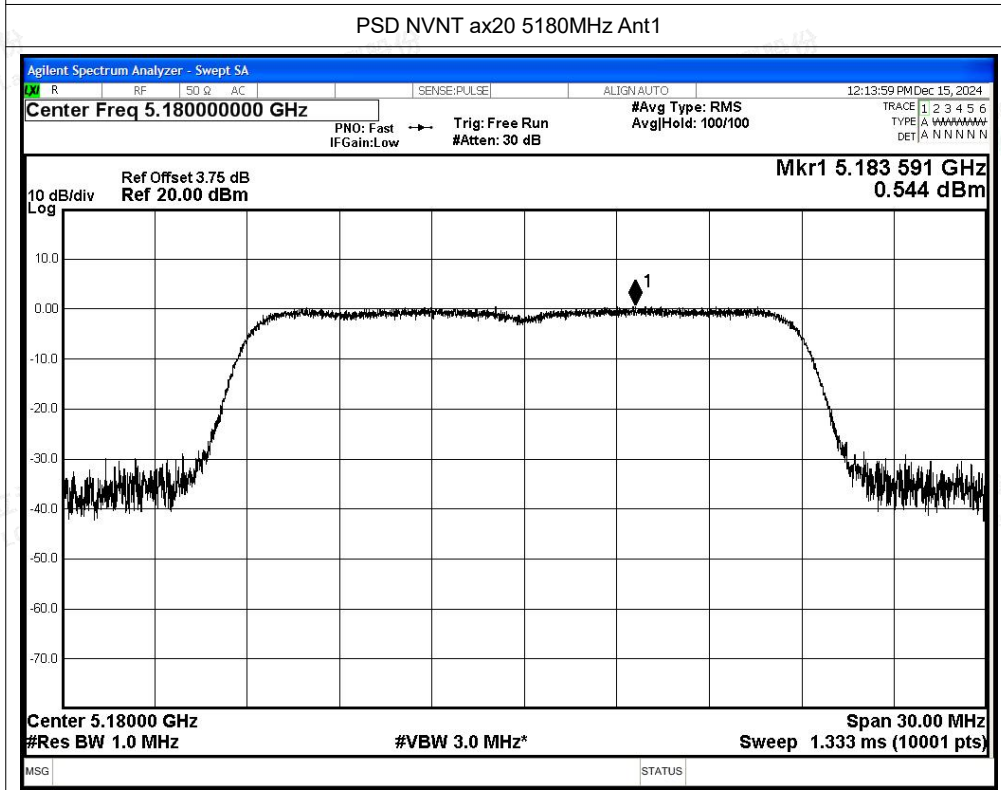
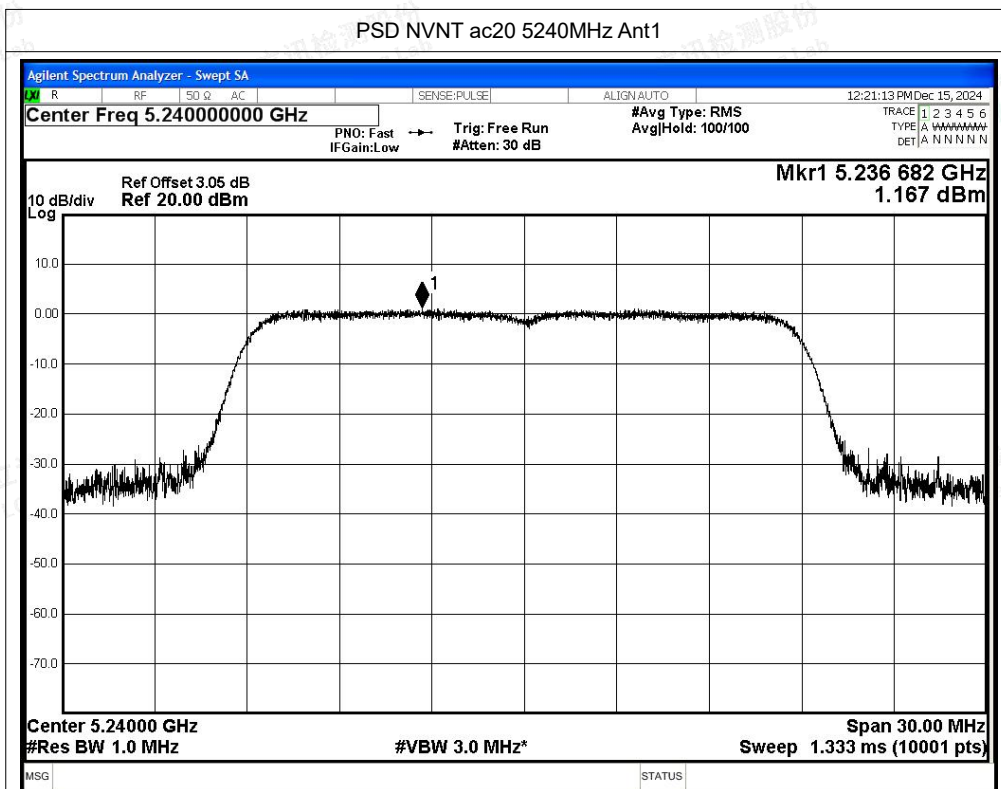


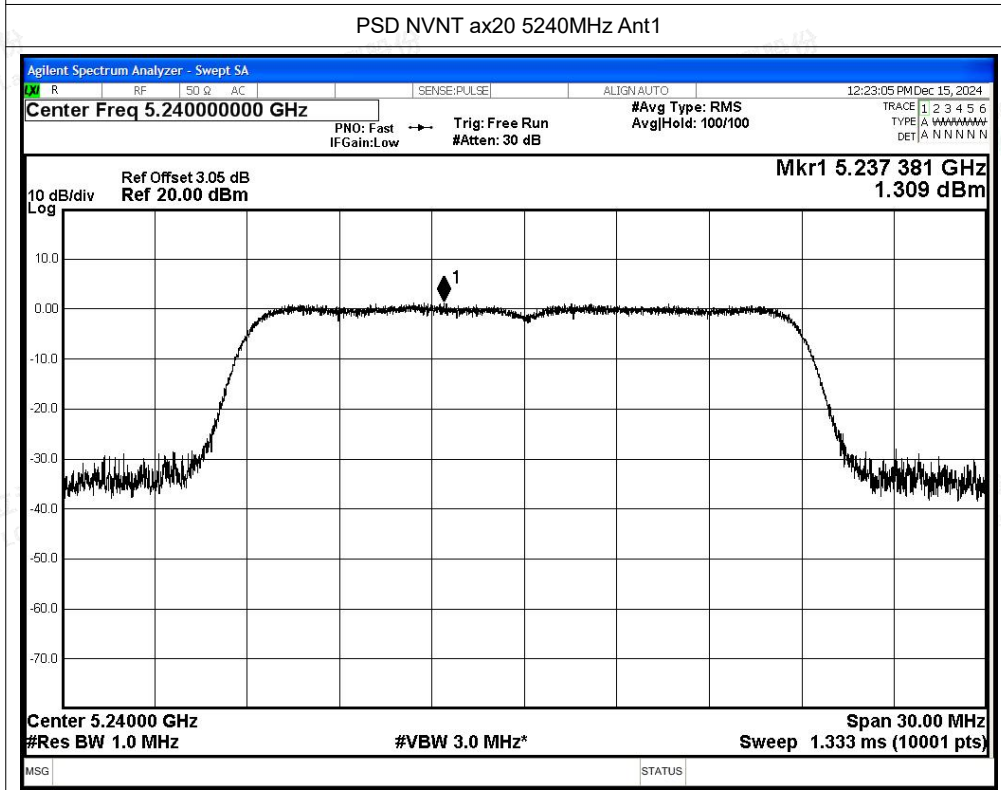
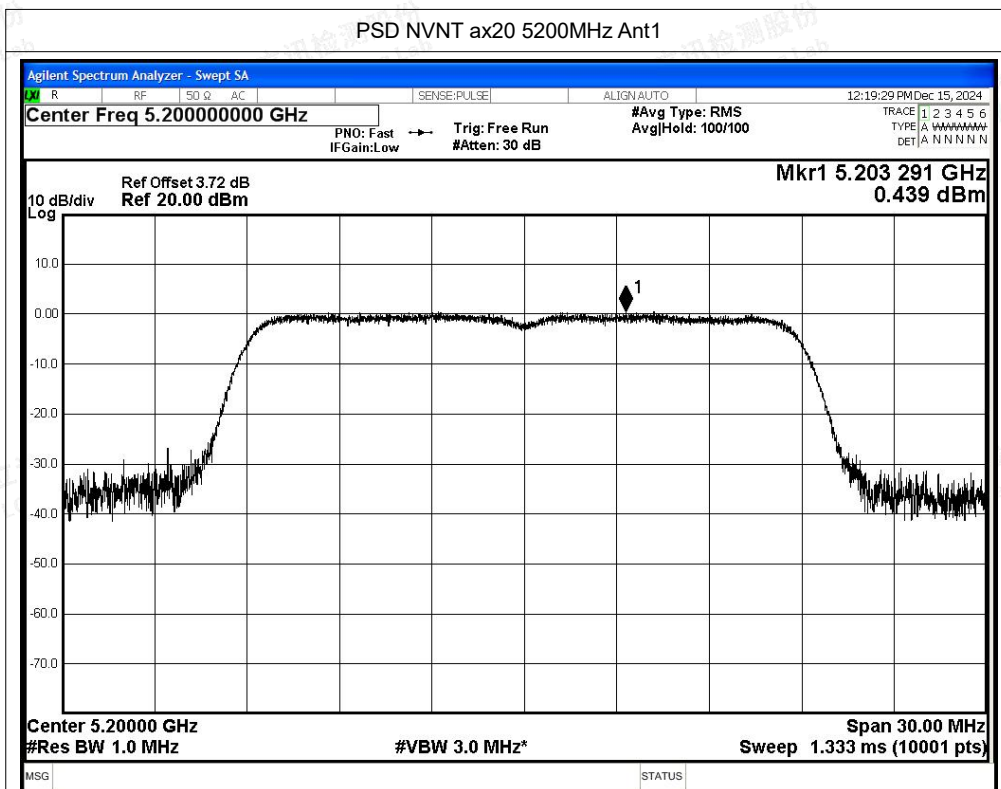














## C.4 Restrict Band

| 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            | -49.5       | 3.80       | -                | 48.72      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5180            | Ant1    | 4500            | -58.49      | 3.80       | 0.24             | 39.97      | Average  | 54             | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5147.5          | -44.12      | 3.80       | -                | 54.1       | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5148.9          | -54.98      | 3.80       | 0.24             | 43.48      | Average  | 54             | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5150            | -45.85      | 3.80       | -                | 52.37      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5180            | Ant1    | 5150            | -54.28      | 3.80       | 0.24             | 44.18      | Average  | 54             | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5350            | -48.72      | 3.80       | -                | 49.5       | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5350            | -56.78      | 3.80       | 0.24             | 41.68      | Average  | 54             | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5381.28         | -46.98      | 3.80       | -                | 51.24      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5351.52         | -56.47      | 3.80       | 0.24             | 41.99      | Average  | 54             | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5460            | -49.78      | 3.80       | -                | 48.44      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5460            | -58.1       | 3.80       | 0.24             | 40.36      | Average  | 54             | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 4500            | -48.99      | 3.80       | -                | 49.23      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 4500            | -58.78      | 3.80       | 0.28             | 39.72      | Average  | 54             | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5147.5          | -41.9       | 3.80       | -                | 56.32      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5149.6          | -53.62      | 3.80       | 0.28             | 44.88      | Average  | 54             | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5150            | -39.92      | 3.80       | -                | 58.3       | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 5150            | -52.86      | 3.80       | 0.28             | 45.64      | Average  | 54             | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5350            | -48.2       | 3.80       | -                | 50.02      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5350            | -57.1       | 3.80       | 0.28             | 41.4       | Average  | 54             | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5367.84         | -46.25      | 3.80       | -                | 51.97      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5350.32         | -56.74      | 3.80       | 0.28             | 41.76      | Average  | 54             | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5460            | -50.35      | 3.80       | -                | 47.87      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5460            | -58.13      | 3.80       | 0.28             | 40.37      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 4500            | -50.8       | 3.80       | -                | 47.42      | Peak     | 68.2           | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 4500            | -58.41      | 3.80       | 0.28             | 40.09      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 5147.5          | -39.16      | 3.80       | -                | 59.06      | Peak     | 68.2           | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 5149.6          | -53.13      | 3.80       | 0.28             | 45.37      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 5150            | -41.81      | 3.80       | -                | 56.41      | Peak     | 68.2           | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 5150            | -52.25      | 3.80       | 0.28             | 46.25      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5350            | -49.25      | 3.80       | -                | 48.97      | Peak     | 68.2           | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5350            | -57.37      | 3.80       | 0.28             | 41.13      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5434.08         | -46.85      | 3.80       | -                | 51.37      | Peak     | 68.2           | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5366.16         | -56.95      | 3.80       | 0.28             | 41.55      | Average  | 54             | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5460            | -51.5       | 3.80       | -                | 46.72      | Peak     | 68.2           | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5460            | -58.3       | 3.80       | 0.28             | 40.2       | Average  | 54             | Pass    |





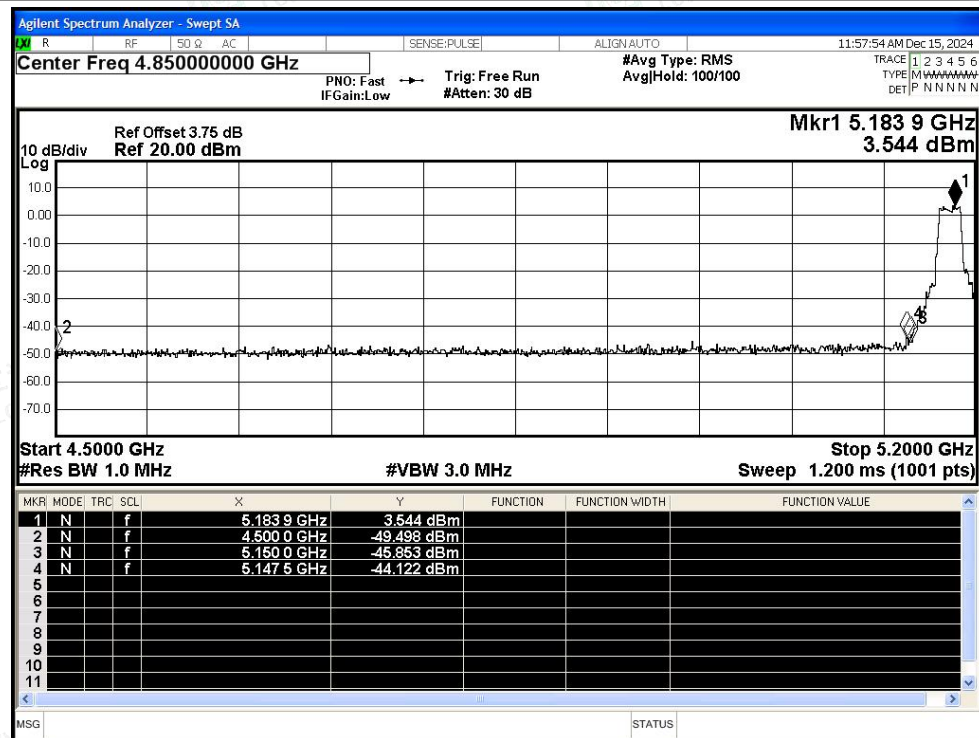
|      |      |      |      |         |        |      |      |       |         |      |      |
|------|------|------|------|---------|--------|------|------|-------|---------|------|------|
| NVNT | ax20 | 5180 | Ant1 | 4500    | -50.02 | 3.80 | -    | 48.2  | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 4500    | -58.43 | 3.80 | 0.28 | 40.07 | Average | 54   | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5149.6  | -39.68 | 3.80 | -    | 58.54 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5148.2  | -52.79 | 3.80 | 0.28 | 45.71 | Average | 54   | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5150    | -39.28 | 3.80 | -    | 58.94 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5180 | Ant1 | 5150    | -52.81 | 3.80 | 0.28 | 45.69 | Average | 54   | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5350    | -48.67 | 3.80 | -    | 49.55 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5350    | -56.93 | 3.80 | 0.28 | 41.57 | Average | 54   | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5400.96 | -47.33 | 3.80 | -    | 50.89 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5350.56 | -56.53 | 3.80 | 0.28 | 41.97 | Average | 54   | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5460    | -48.68 | 3.80 | -    | 49.54 | Peak    | 68.2 | Pass |
| NVNT | ax20 | 5240 | Ant1 | 5460    | -58.47 | 3.80 | 0.28 | 40.03 | Average | 54   | Pass |



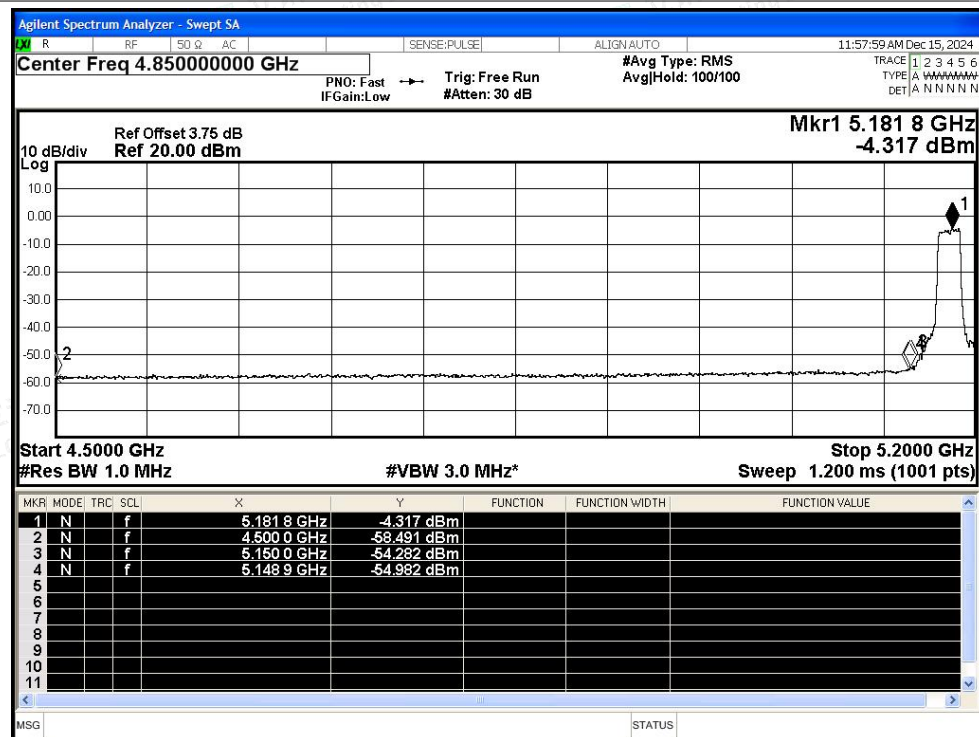


## Test Graphs

## Restrict Band NVNT a 5180MHz Ant1 Peak



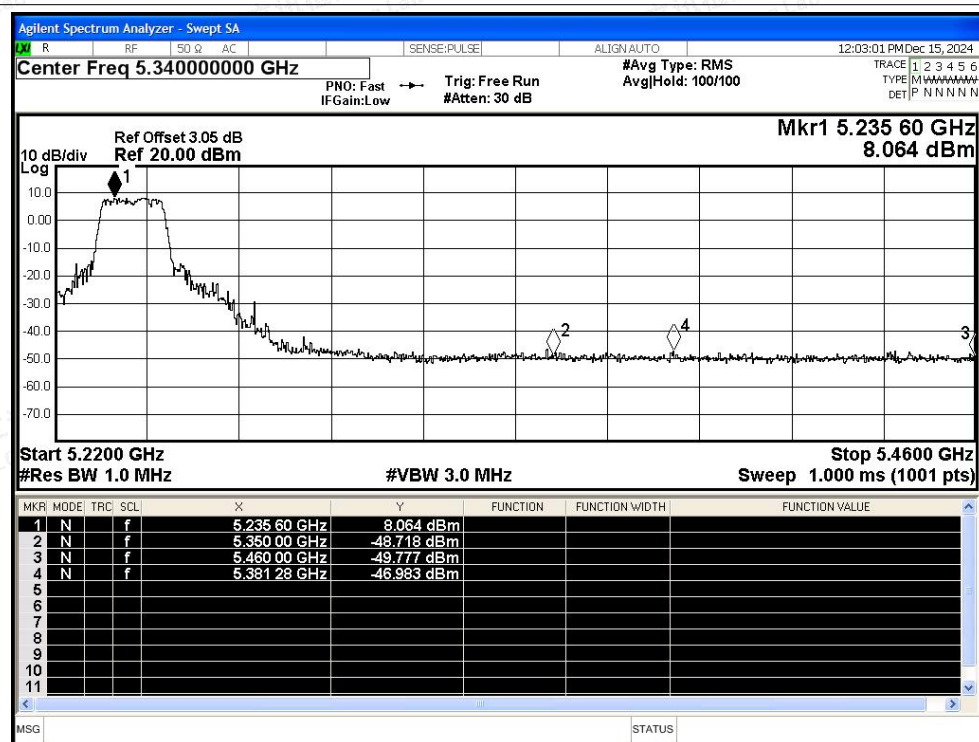
## Restrict Band NVNT a 5180MHz Ant1 Average



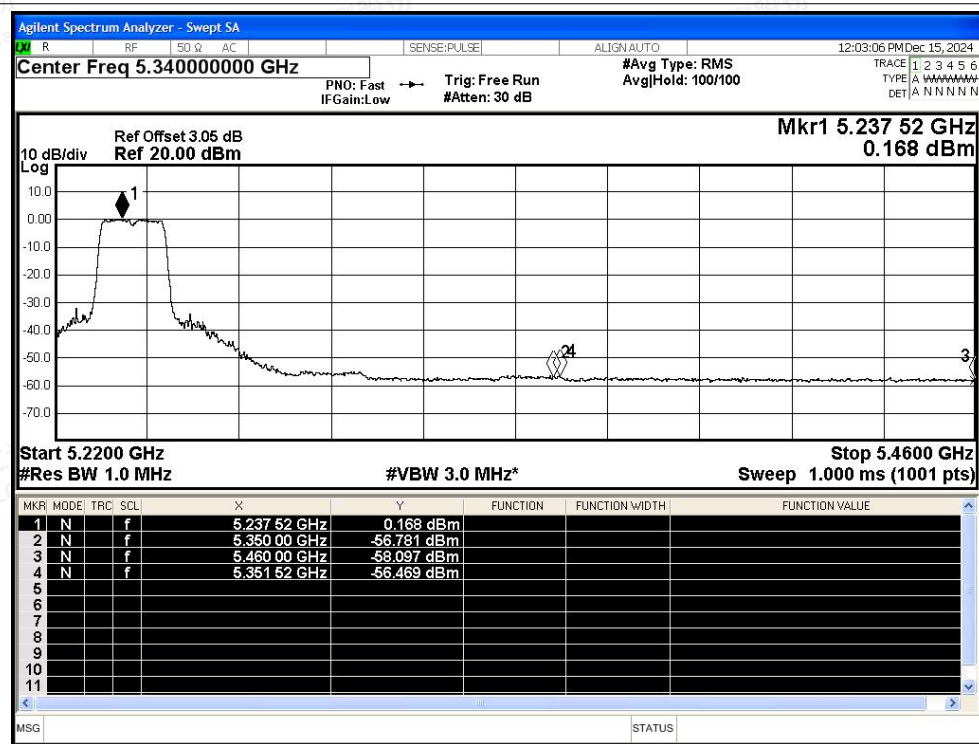




## Restrict Band NVNT a 5240MHz Ant1 Peak



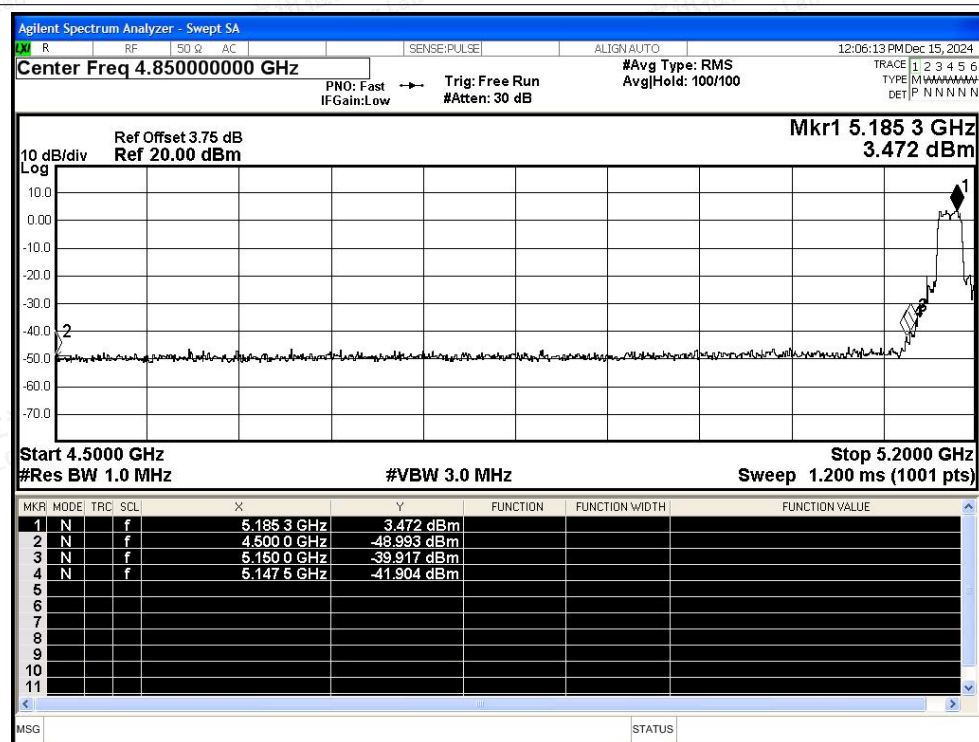
## Restrict Band NVNT a 5240MHz Ant1 Average



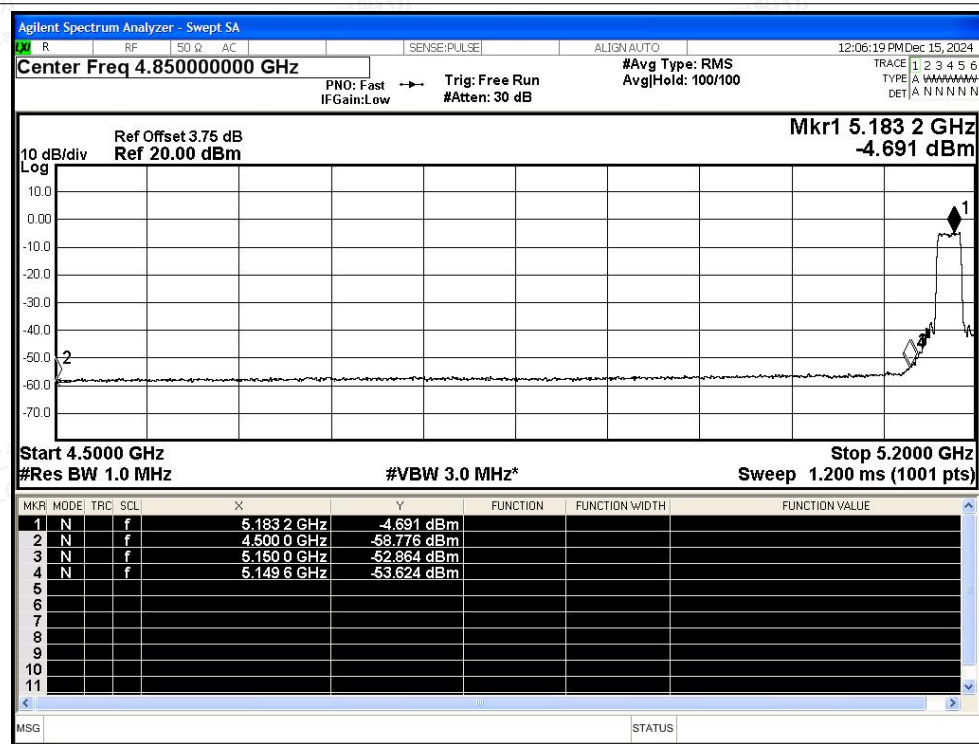




## Restrict Band NVNT n20 5180MHz Ant1 Peak

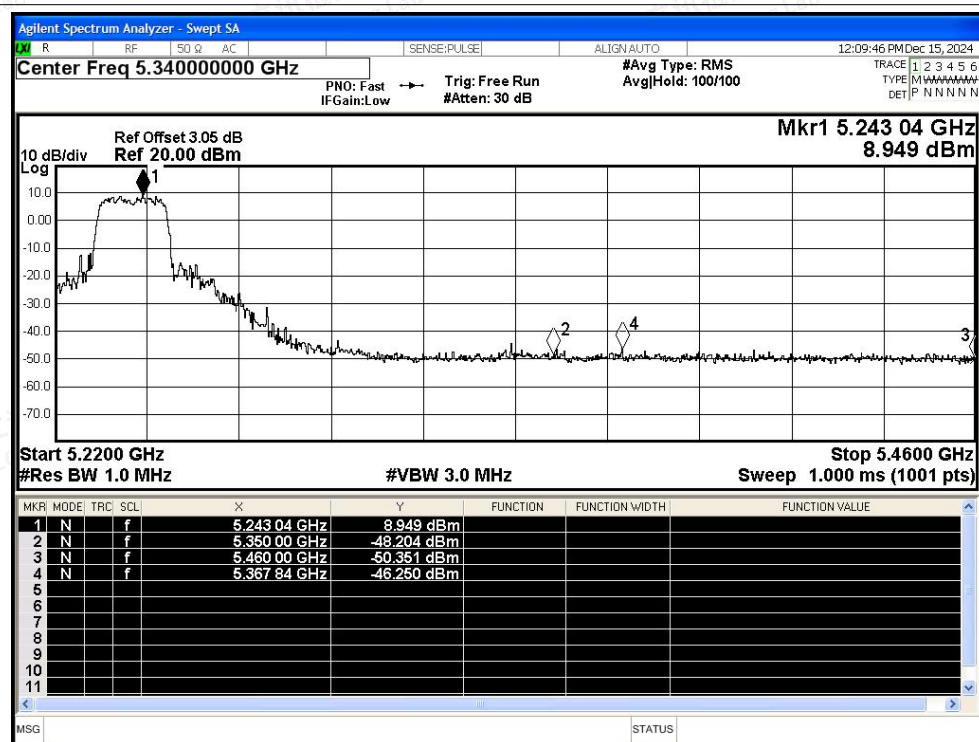


## Restrict Band NVNT n20 5180MHz Ant1 Average

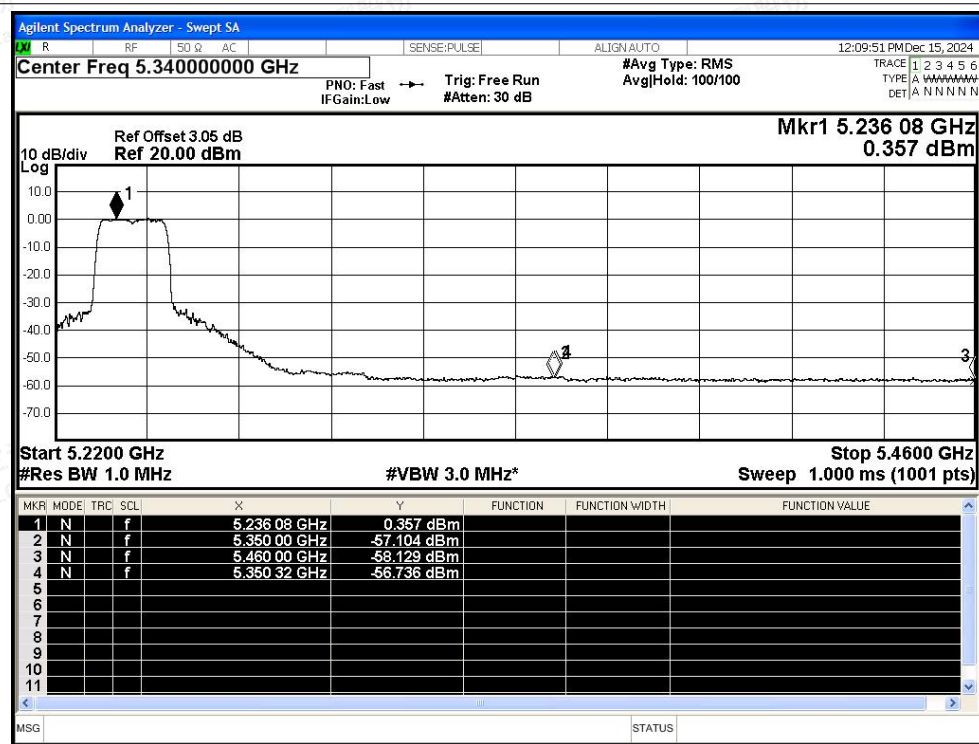




## Restrict Band NVNT n20 5240MHz Ant1 Peak



## Restrict Band NVNT n20 5240MHz Ant1 Average

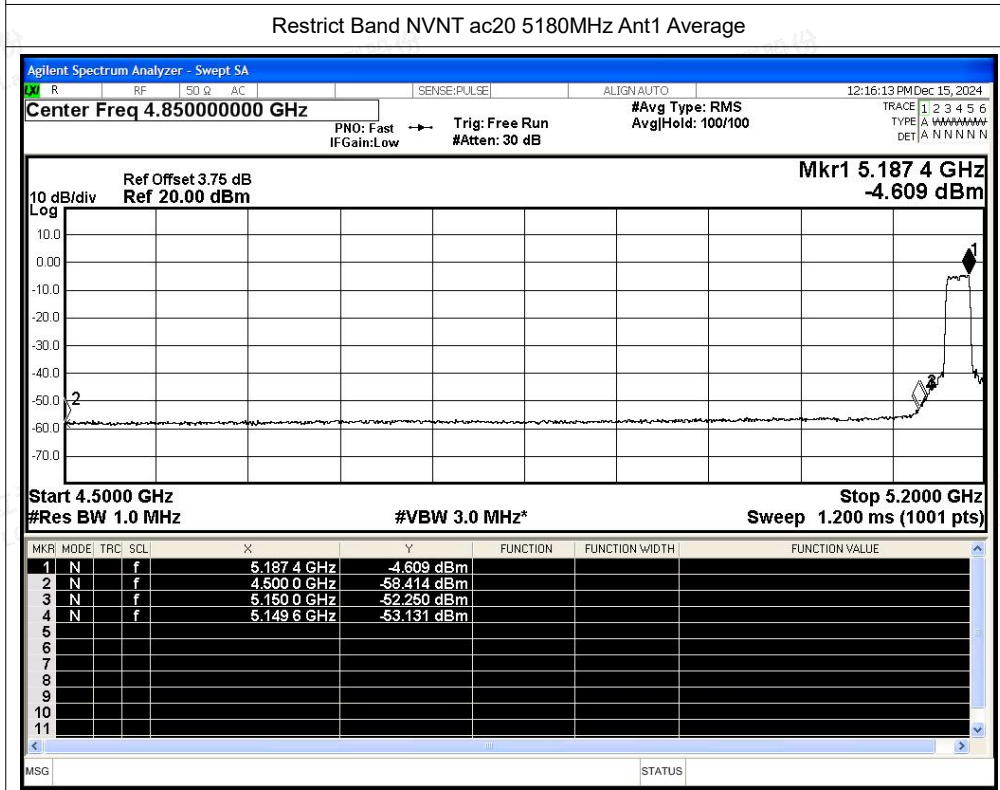
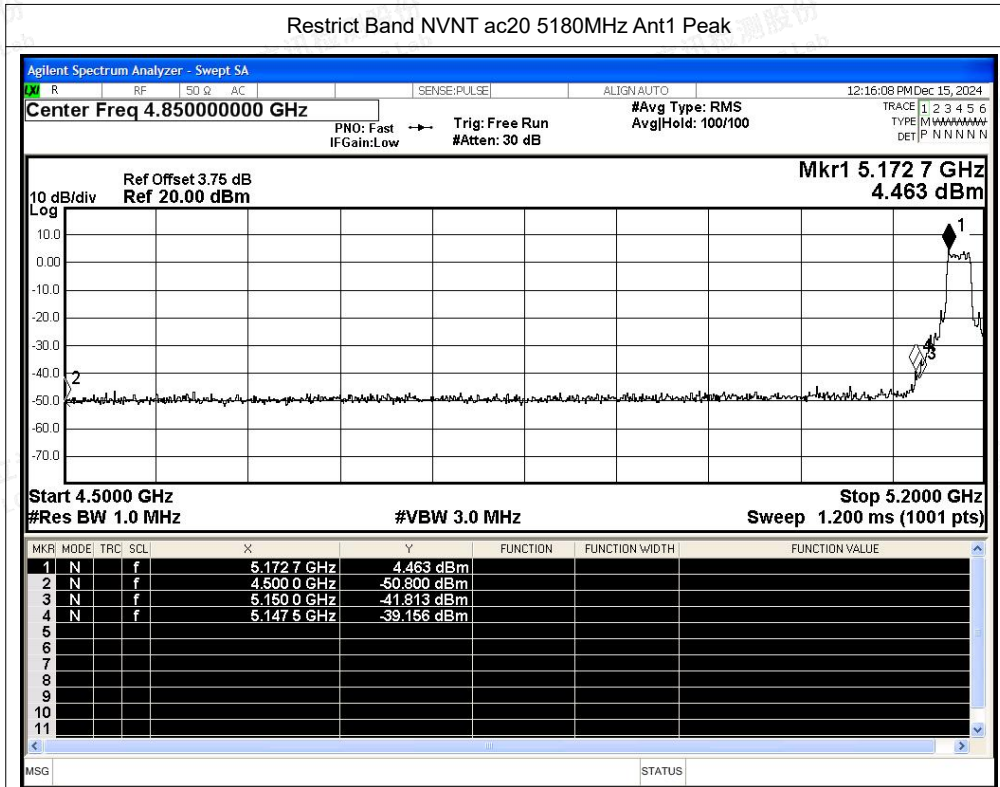


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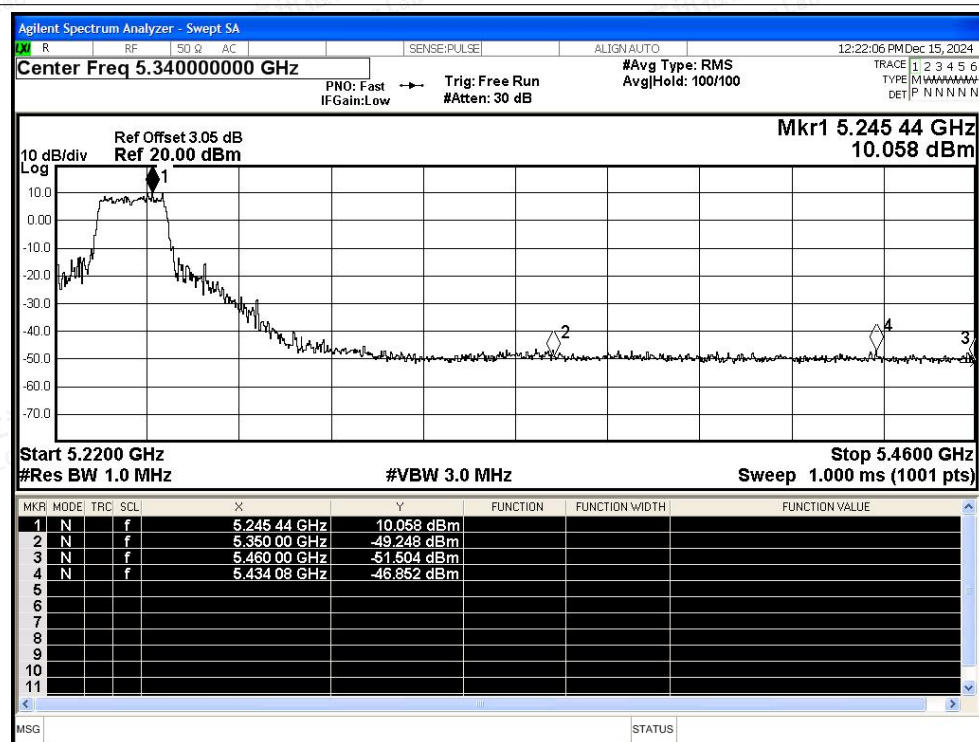
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## Restrict Band NVNT ac20 5240MHz Ant1 Peak



## Restrict Band NVNT ac20 5240MHz Ant1 Average

