



## Appendix D

### RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: O Sitter

Test Model: CT-CMWOS

#### Environmental Conditions

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



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## D.1 -26dB Bandwidth

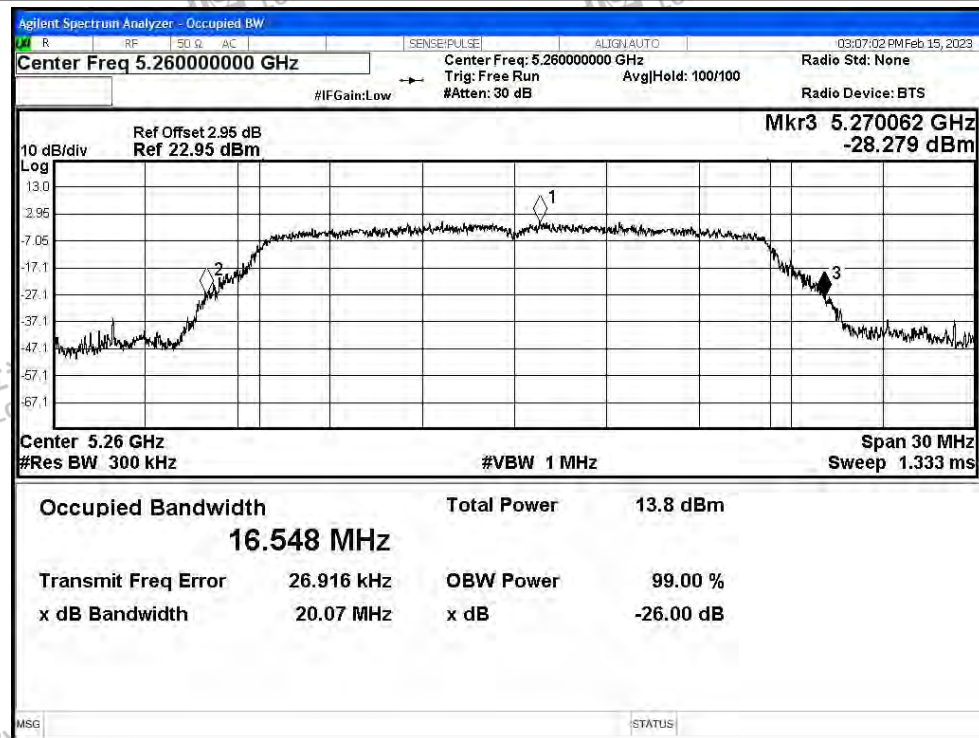
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5260            | Ant1    | 20.07                  | $\geq 0.5$                   | Pass    |
| NVNT      | a    | 5300            | Ant1    | 20.009                 | $\geq 0.5$                   | Pass    |
| NVNT      | a    | 5320            | Ant1    | 20.108                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 20.246                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5300            | Ant1    | 20.4                   | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 20.368                 | $\geq 0.5$                   | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 39.756                 | $\geq 0.5$                   | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 39.779                 | $\geq 0.5$                   | Pass    |



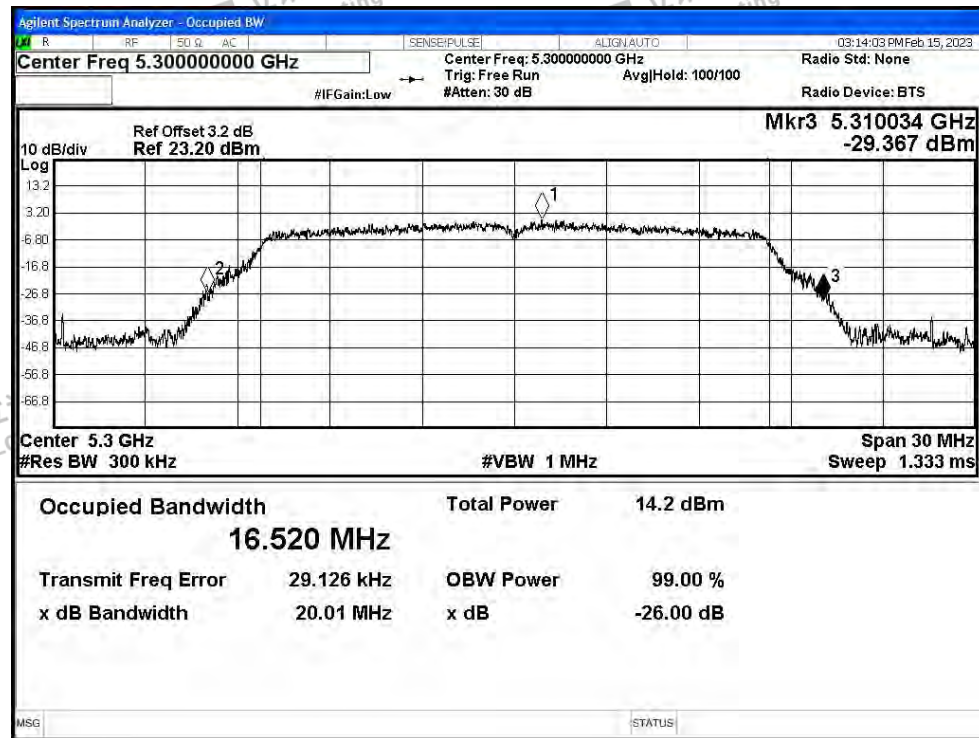


## Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1



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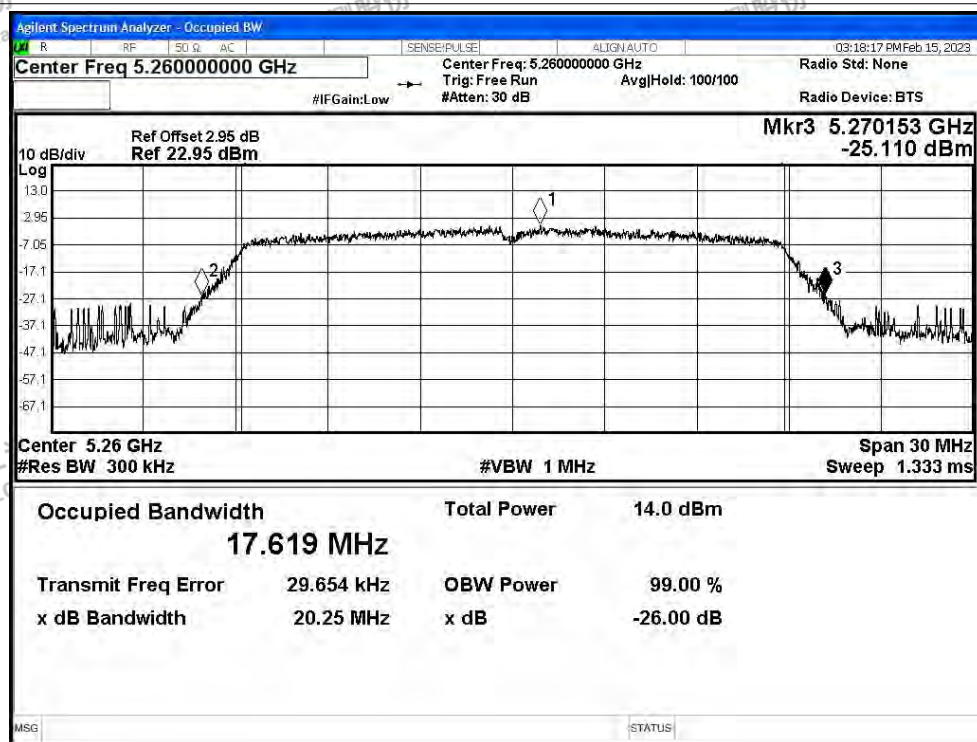
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-26dB Bandwidth NVNT a 5320MHz Ant1

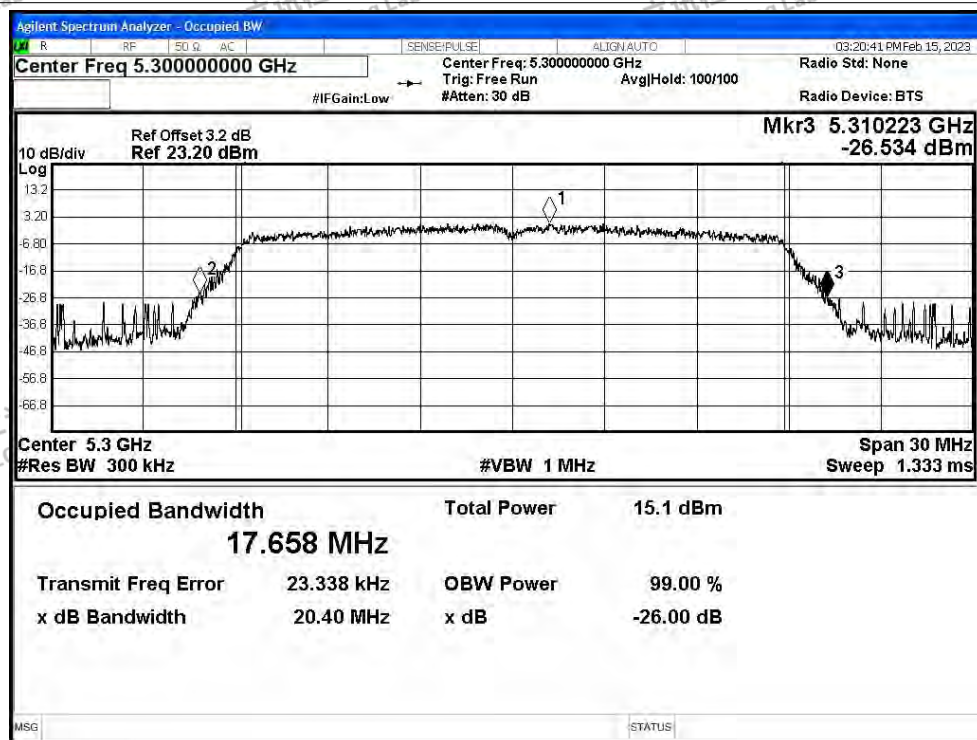


-26dB Bandwidth NVNT n20 5260MHz Ant1

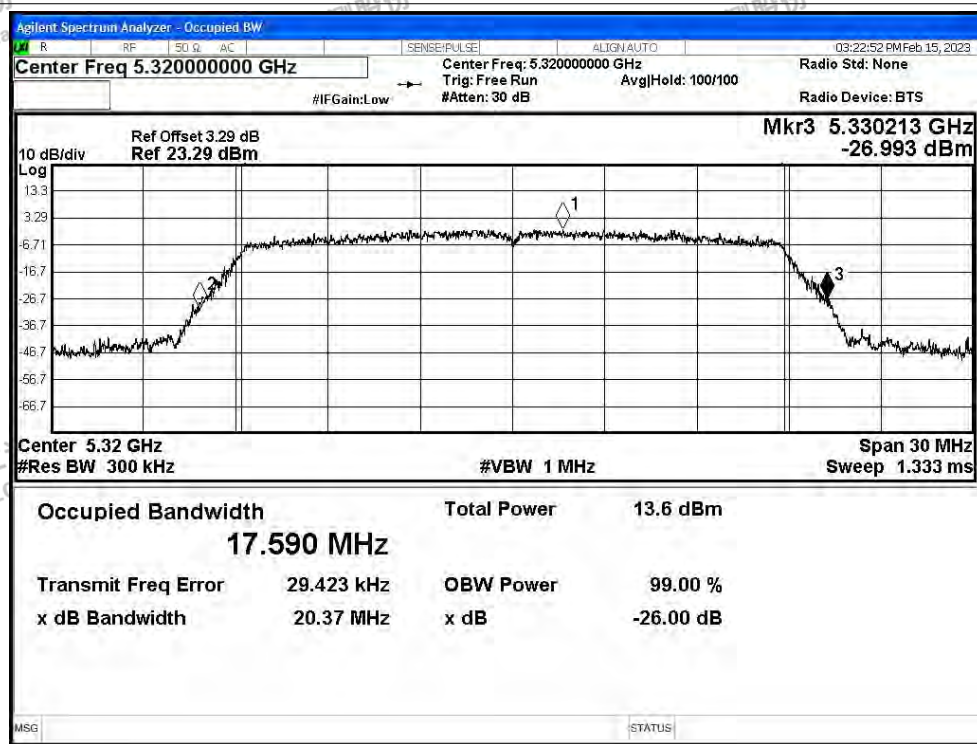




-26dB Bandwidth NVNT n20 5300MHz Ant1

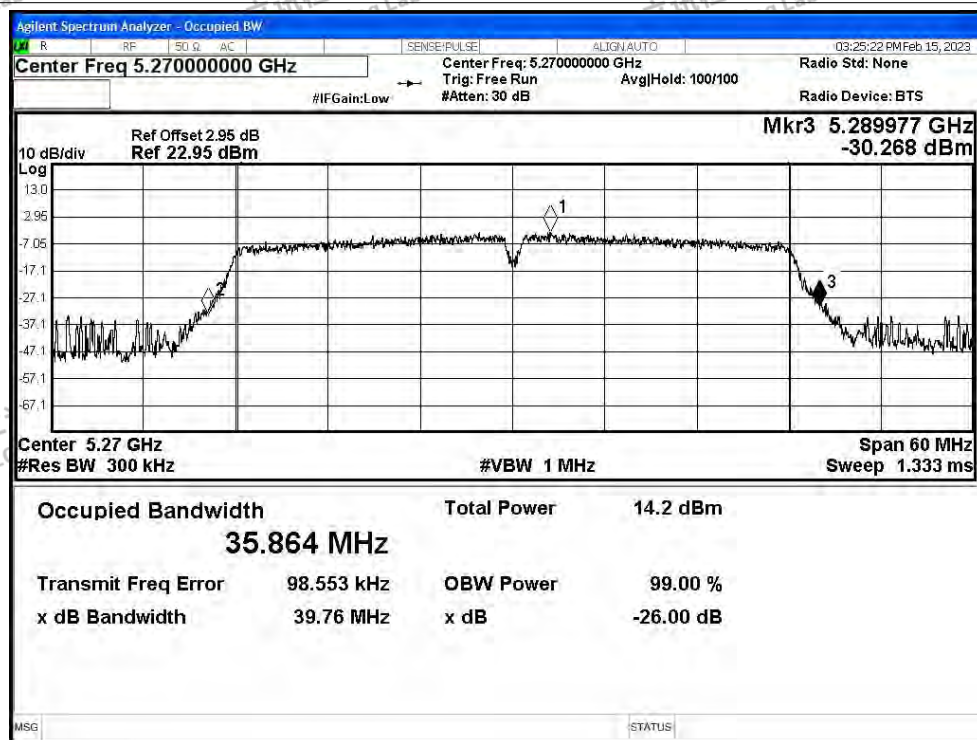


-26dB Bandwidth NVNT n20 5320MHz Ant1

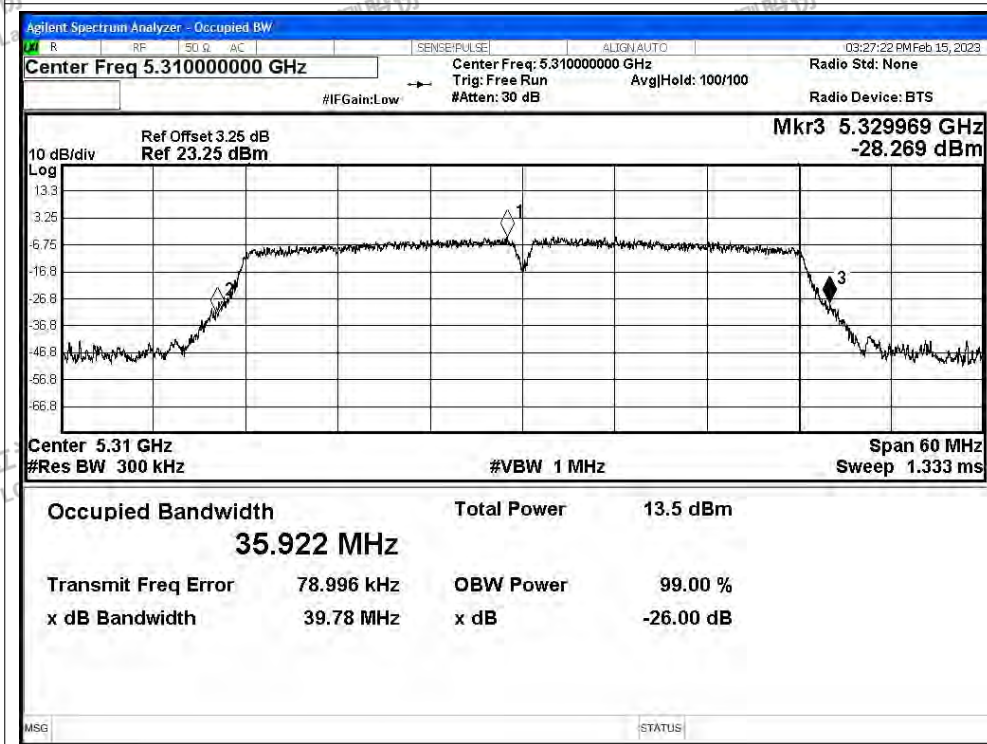




## -26dB Bandwidth NVNT n40 5270MHz Ant1



## -26dB Bandwidth NVNT n40 5310MHz Ant1



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## D.2 Maximum 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    | 5260               | Ant1    | 8.16                     | 0.14                | 8.3                  | 24             | Pass    |
| NVNT      | a    | 5300               | Ant1    | 8.33                     | 0.13                | 8.46                 | 24             | Pass    |
| NVNT      | a    | 5320               | Ant1    | 8.18                     | 0.14                | 8.32                 | 24             | Pass    |
| NVNT      | n20  | 5260               | Ant1    | 8.27                     | 0.14                | 8.41                 | 24             | Pass    |
| NVNT      | n20  | 5300               | Ant1    | 7.79                     | 0.14                | 7.93                 | 24             | Pass    |
| NVNT      | n20  | 5320               | Ant1    | 7.96                     | 0.14                | 8.1                  | 24             | Pass    |
| NVNT      | n40  | 5270               | Ant1    | 8.36                     | 0.28                | 8.64                 | 24             | Pass    |
| NVNT      | n40  | 5310               | Ant1    | 7.7                      | 0.28                | 7.98                 | 24             | Pass    |





### D.3 Maximum Power Spectral Density Level

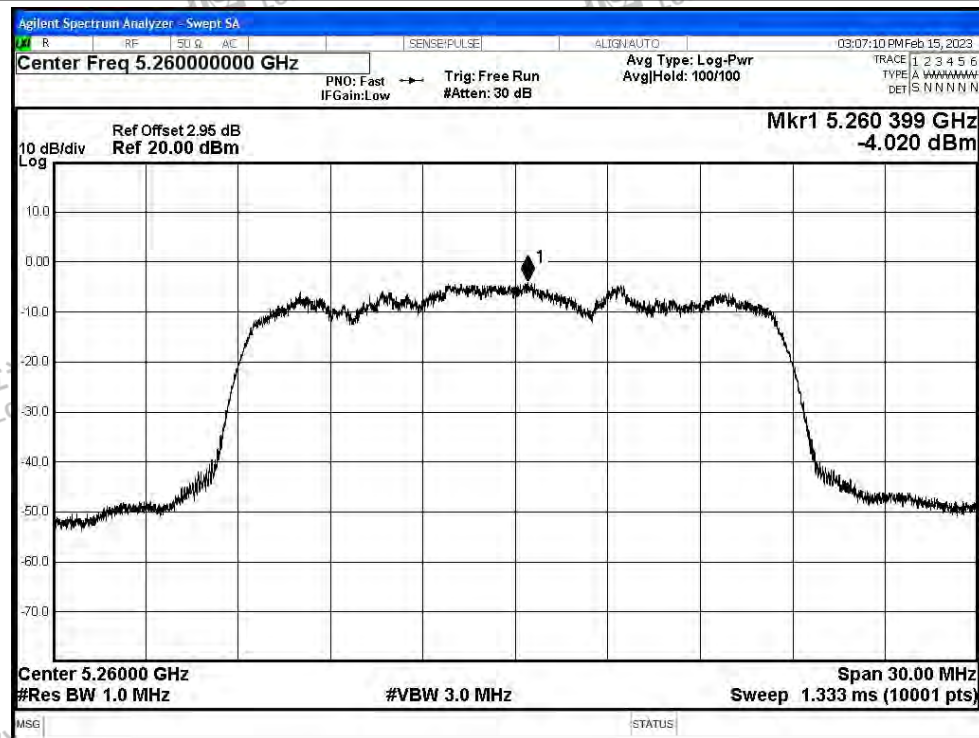
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5260            | Ant1    | -4.02               | 0.14             | -3.88           | 11          | Pass    |
| NVNT      | a    | 5300            | Ant1    | -4.22               | 0.13             | -4.09           | 11          | Pass    |
| NVNT      | a    | 5320            | Ant1    | -3.84               | 0.14             | -3.7            | 11          | Pass    |
| NVNT      | n20  | 5260            | Ant1    | -4.34               | 0.14             | -4.2            | 11          | Pass    |
| NVNT      | n20  | 5300            | Ant1    | -4.87               | 0.14             | -4.73           | 11          | Pass    |
| NVNT      | n20  | 5320            | Ant1    | -4.19               | 0.14             | -4.05           | 11          | Pass    |
| NVNT      | n40  | 5270            | Ant1    | -7.89               | 0.28             | -7.61           | 11          | Pass    |
| NVNT      | n40  | 5310            | Ant1    | -9.02               | 0.28             | -8.74           | 11          | Pass    |



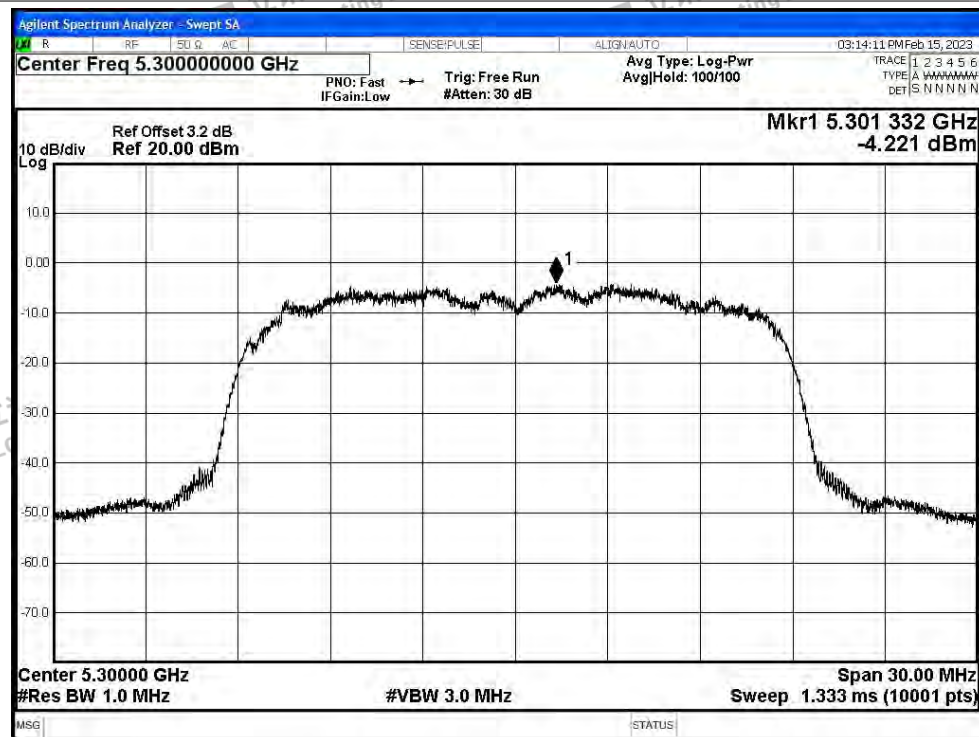


## Test Graphs

PSD NVNT a 5260MHz Ant1

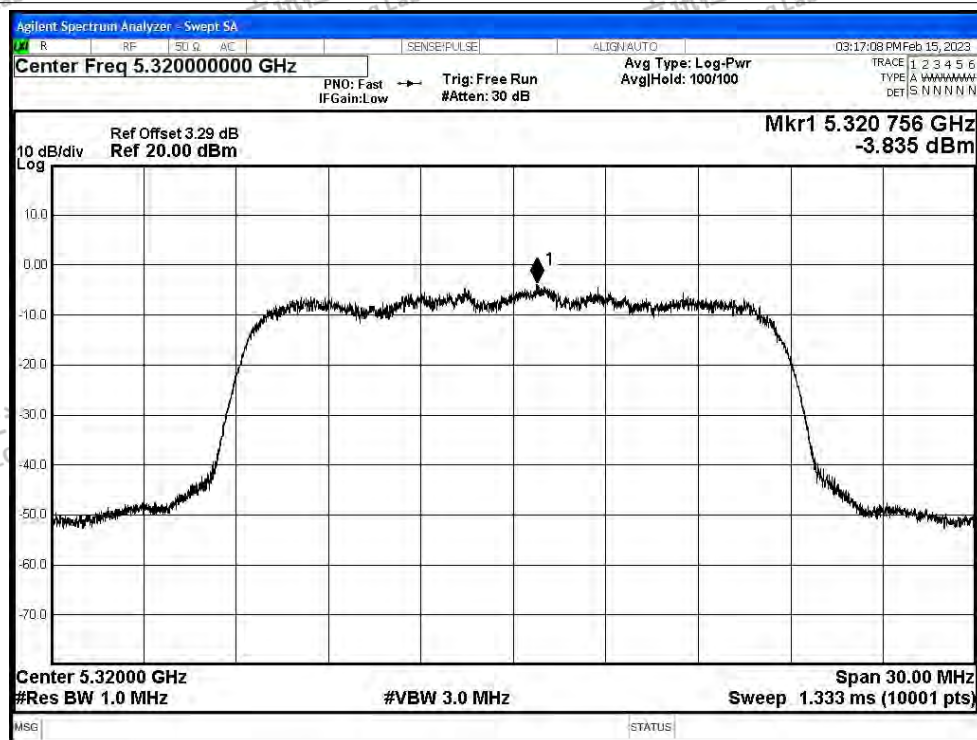


PSD NVNT a 5300MHz Ant1

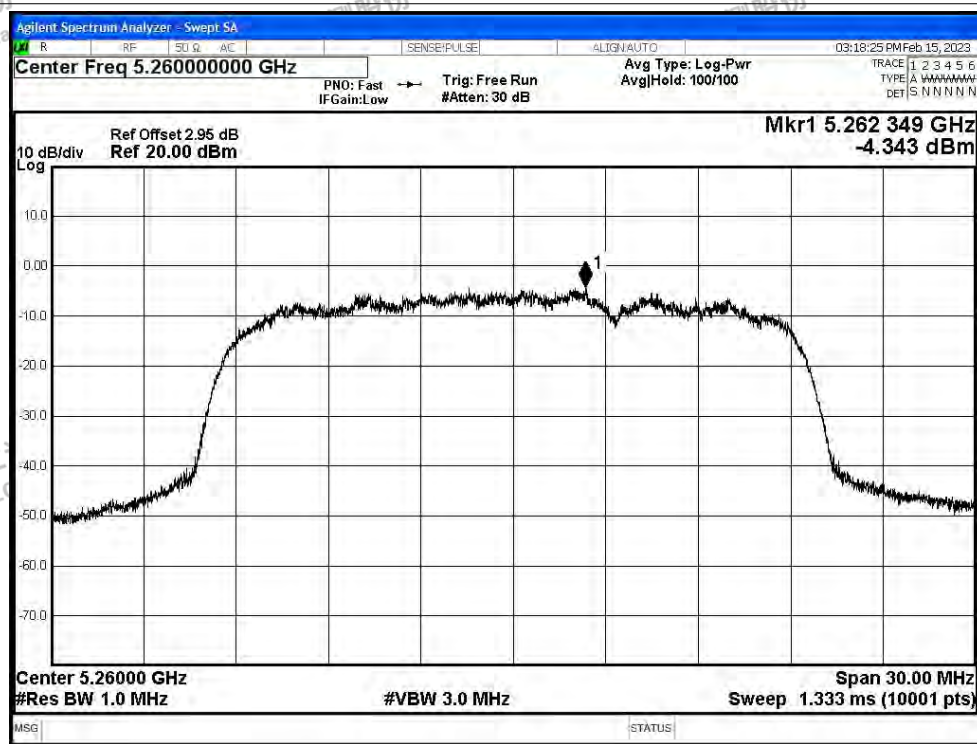




## PSD NVNT a 5320MHz Ant1

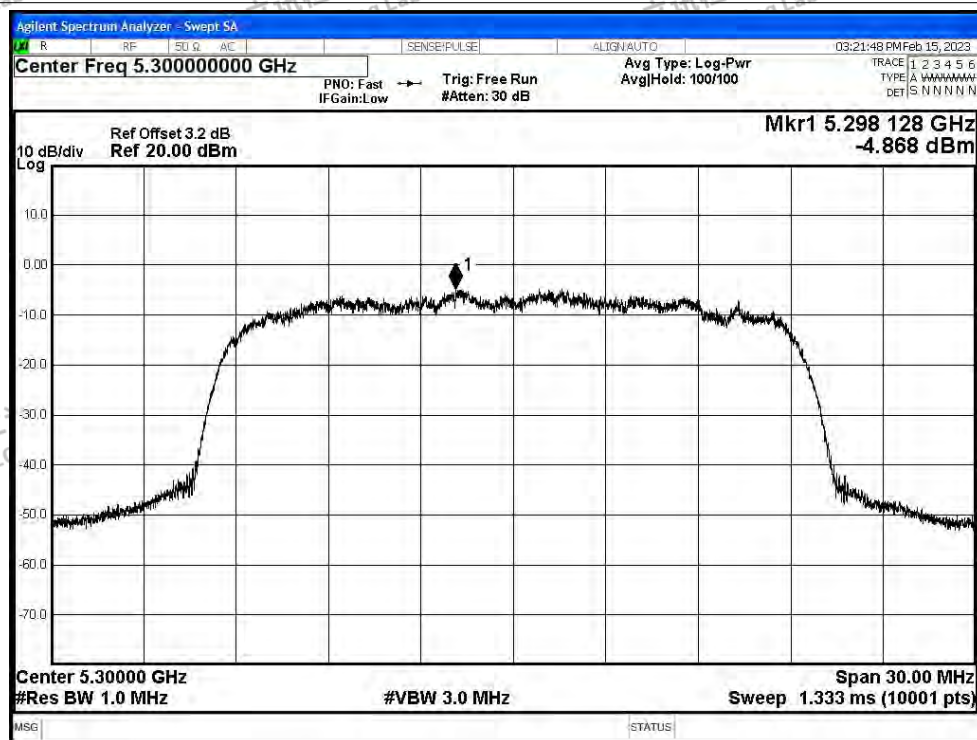


## PSD NVNT n20 5260MHz Ant1

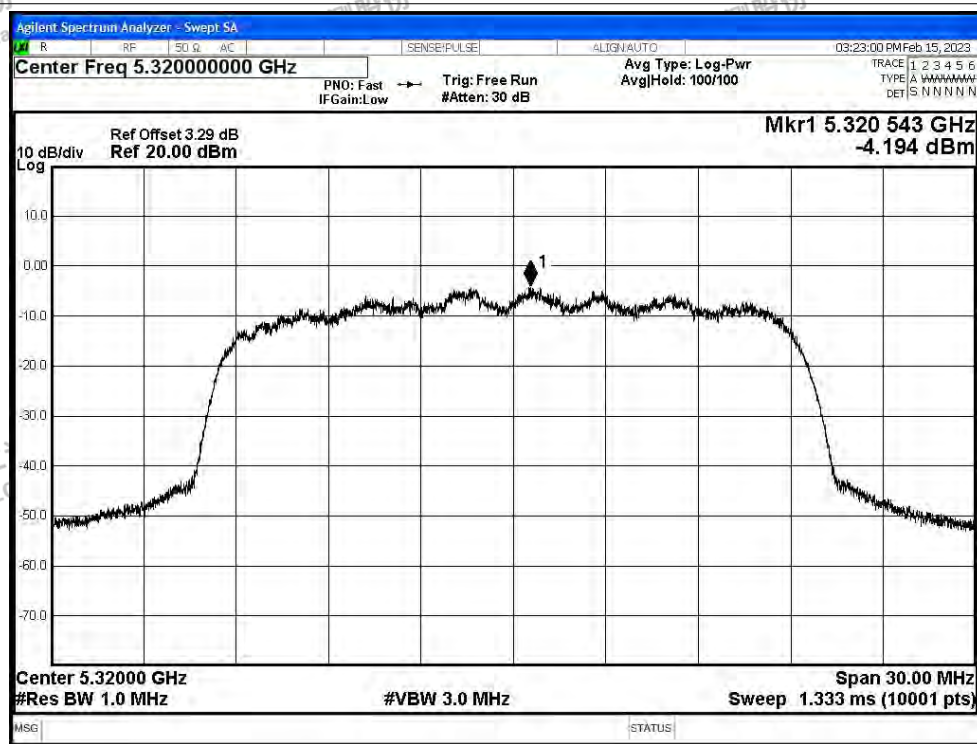




PSD NVNT n20 5300MHz Ant1

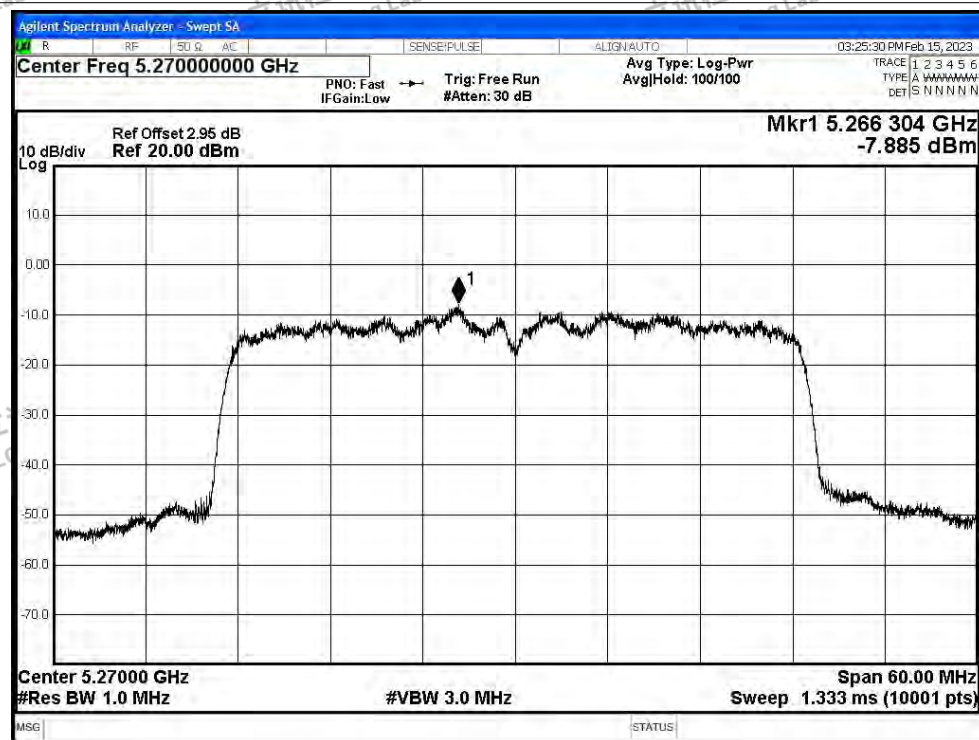


PSD NVNT n20 5320MHz Ant1

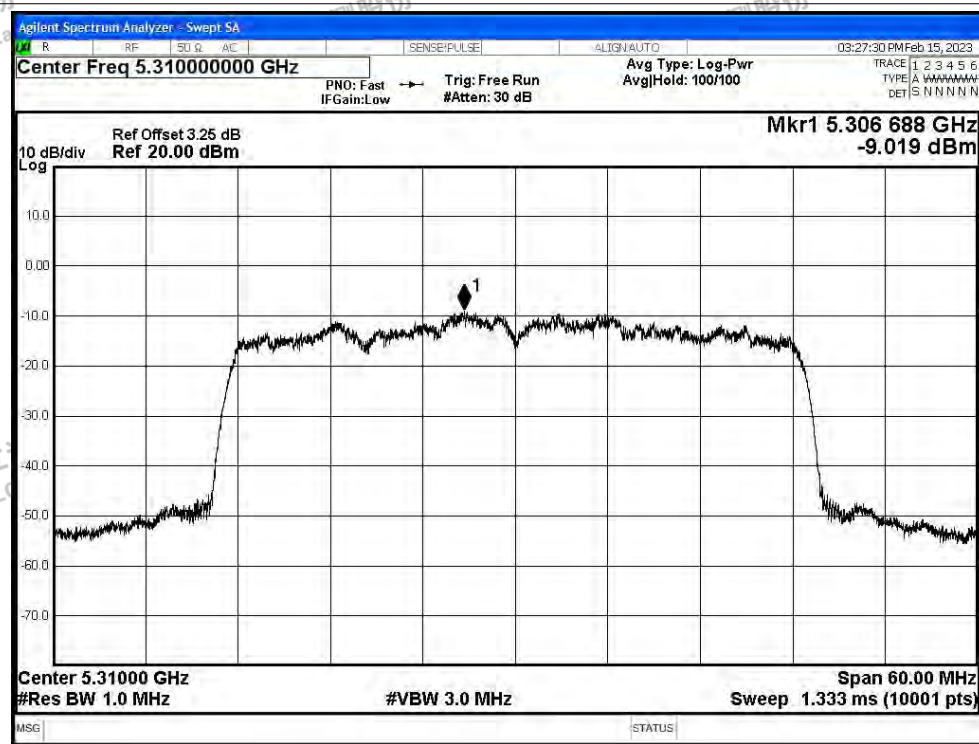




PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1





## D.4 Restrict Band

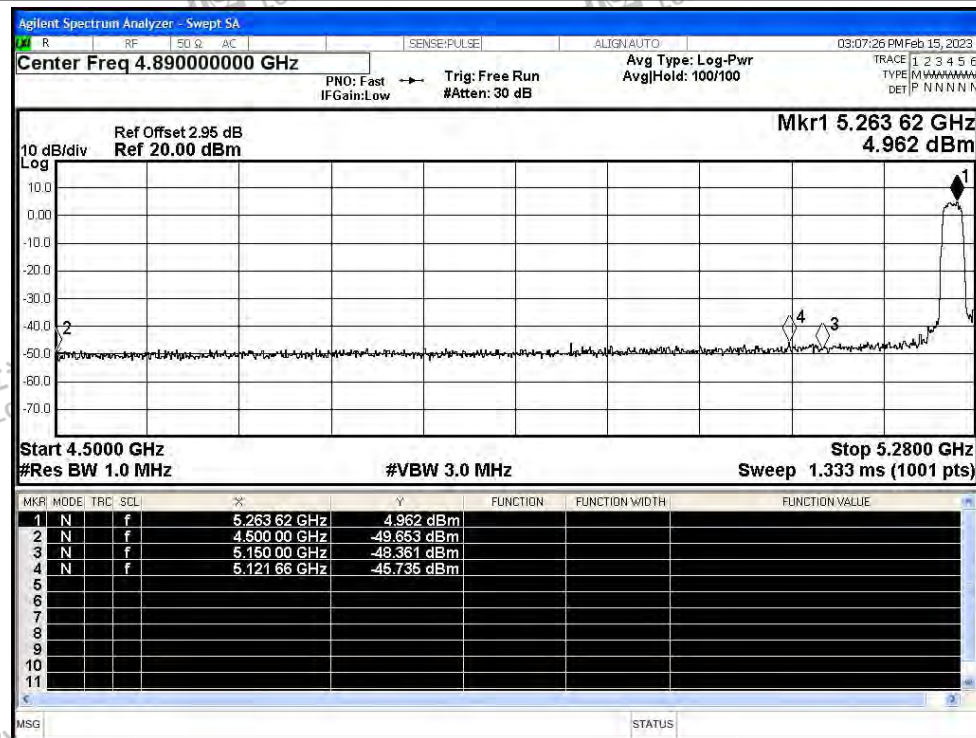
| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT      | a    | 5260            | Ant1    | 4500            | -49.65      | 4.36       | 49.97      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5260            | Ant1    | 4500            | -60.31      | 4.36       | 39.31      | Average  | 54             | Pass    |
| NVNT      | a    | 5260            | Ant1    | 5121.66         | -45.74      | 4.36       | 53.88      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5260            | Ant1    | 5138.82         | -57.46      | 4.36       | 42.16      | Average  | 54             | Pass    |
| NVNT      | a    | 5260            | Ant1    | 5150            | -48.36      | 4.36       | 51.26      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5260            | Ant1    | 5150            | -57.64      | 4.36       | 41.98      | Average  | 54             | Pass    |
| NVNT      | a    | 5320            | Ant1    | 5350            | -45.07      | 4.36       | 54.55      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5320            | Ant1    | 5350            | -55.74      | 4.36       | 43.88      | Average  | 54             | Pass    |
| NVNT      | a    | 5320            | Ant1    | 5353.6          | -44.7       | 4.36       | 54.92      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5320            | Ant1    | 5460            | -50.05      | 4.36       | 49.57      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5320            | Ant1    | 5460            | -58.48      | 4.36       | 41.14      | Average  | 54             | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 4500            | -50.86      | 4.36       | 48.76      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 4500            | -60.38      | 4.36       | 39.24      | Average  | 54             | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 5081.1          | -46.47      | 4.36       | 53.15      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 5148.96         | -57.46      | 4.36       | 42.16      | Average  | 54             | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 5150            | -49.35      | 4.36       | 50.27      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 5150            | -57.49      | 4.36       | 42.13      | Average  | 54             | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 5350            | -45.17      | 4.36       | 54.45      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 5350            | -55.77      | 4.36       | 43.85      | Average  | 54             | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 5350.8          | -38.3       | 4.36       | 61.32      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 5460            | -49.3       | 4.36       | 50.32      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 5460            | -58.56      | 4.36       | 41.06      | Average  | 54             | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 4500            | -51.14      | 4.36       | 48.48      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 4500            | -60.09      | 4.36       | 39.53      | Average  | 54             | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 5099.4          | -45.24      | 4.36       | 54.38      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 5143.95         | -57.04      | 4.36       | 42.58      | Average  | 54             | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 5150            | -49.07      | 4.36       | 50.55      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 5150            | -57.32      | 4.36       | 42.30      | Average  | 54             | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5350            | -42.94      | 4.36       | 56.68      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5350            | -54.88      | 4.36       | 44.74      | Average  | 54             | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5355.6          | -39.42      | 4.36       | 60.20      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5350.4          | -54.74      | 4.36       | 44.88      | Average  | 54             | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5460            | -49.74      | 4.36       | 49.88      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5460            | -58.46      | 4.36       | 41.16      | Average  | 54             | Pass    |



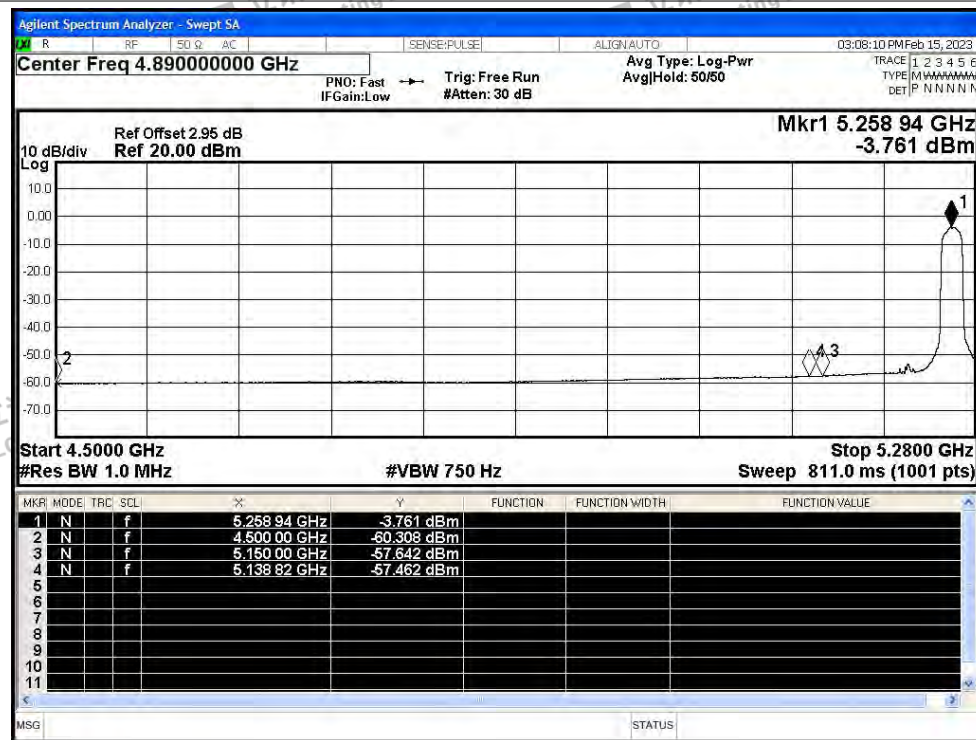


## Test Graphs

## Restrict Band NVNT a 5260MHz Ant1 Peak

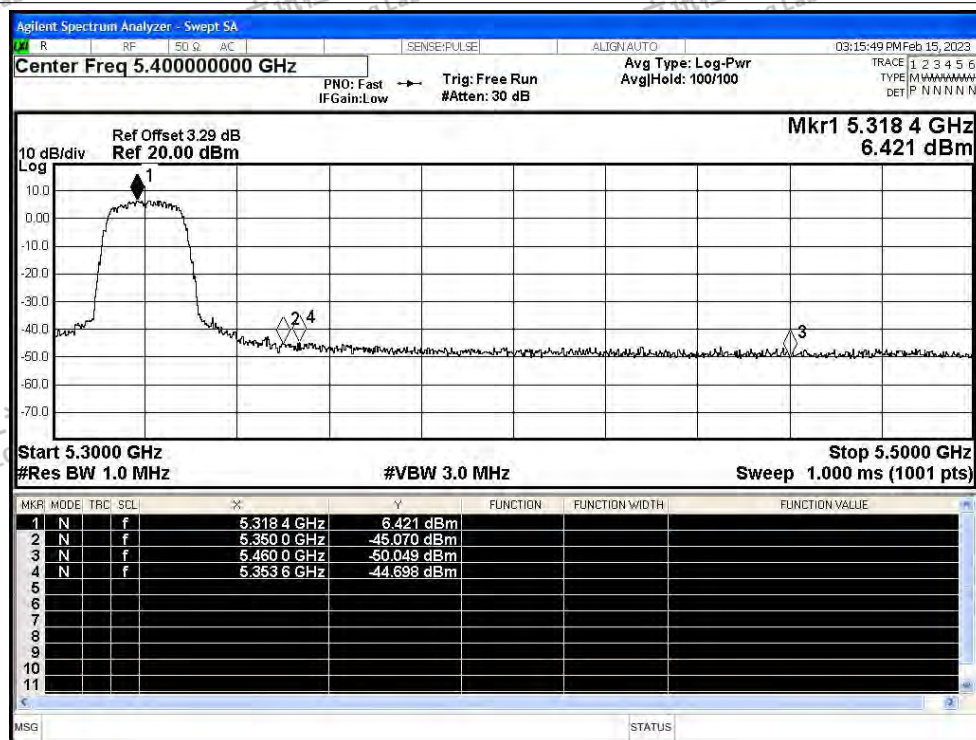


## Restrict Band NVNT a 5260MHz Ant1 Average

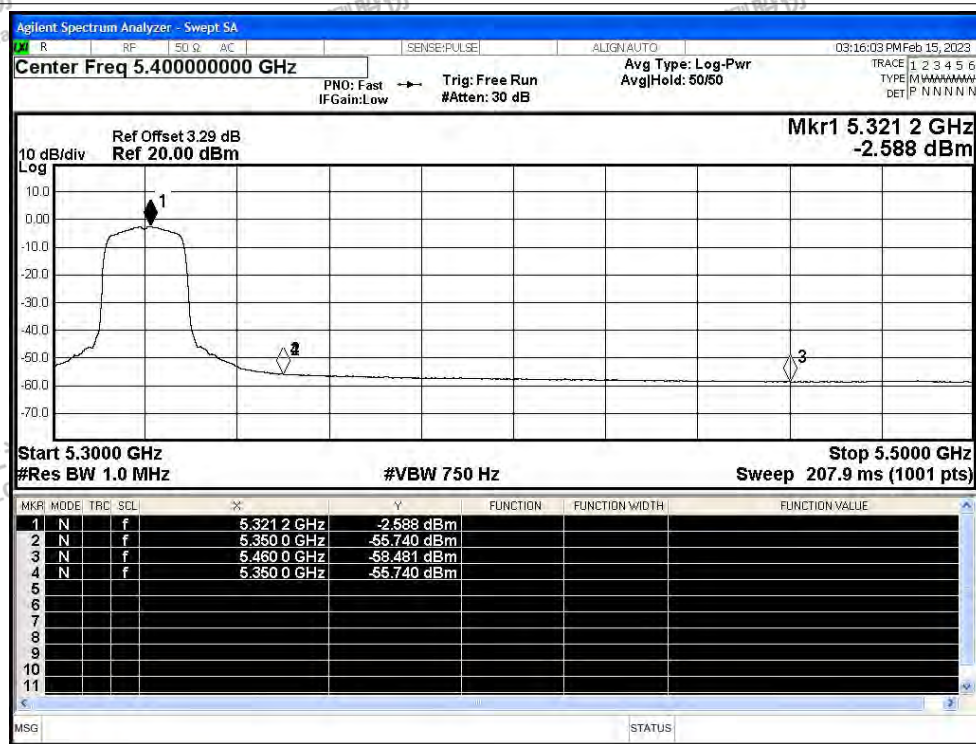




## Restrict Band NVNT a 5320MHz Ant1 Peak

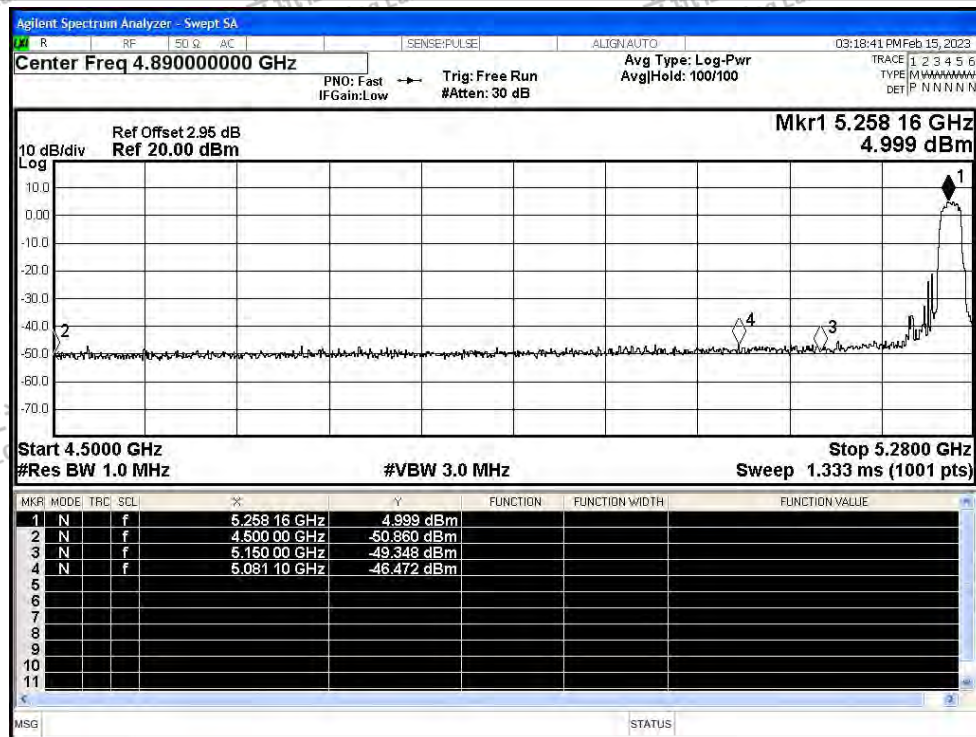


## Restrict Band NVNT a 5320MHz Ant1 Average

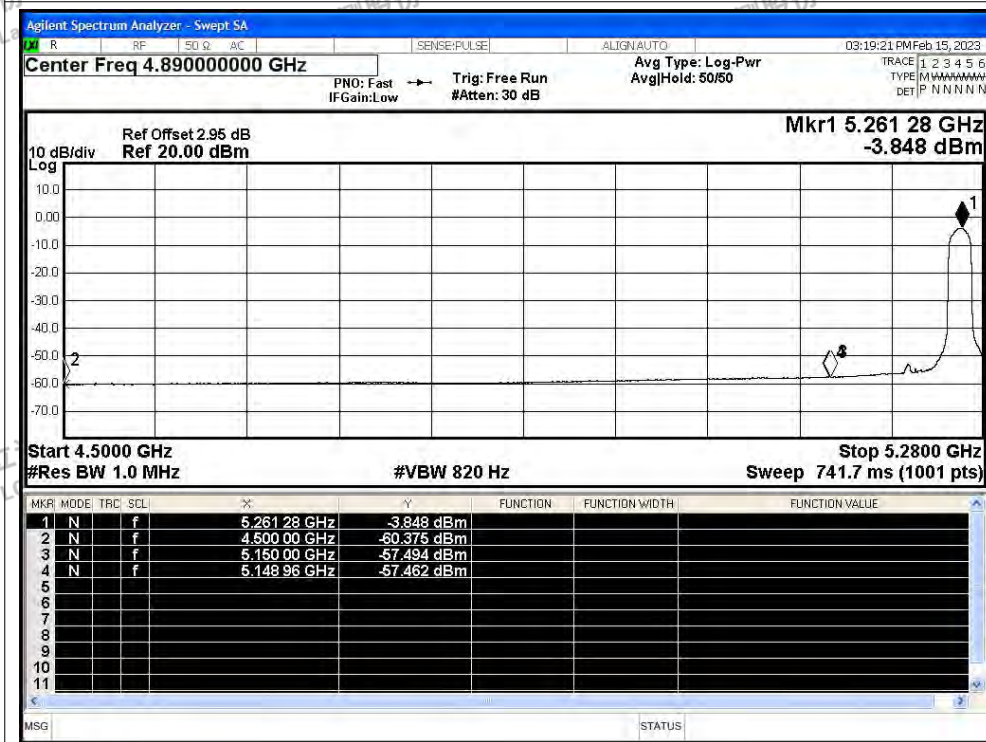




## Restrict Band NVNT n20 5260MHz Ant1 Peak



## Restrict Band NVNT n20 5260MHz Ant1 Average



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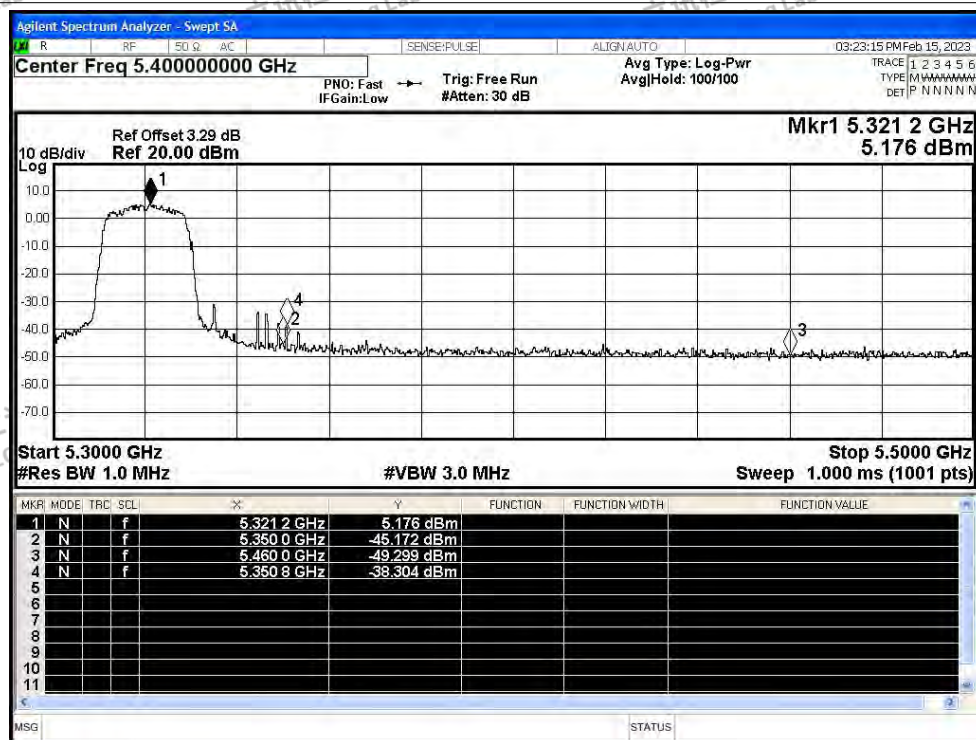
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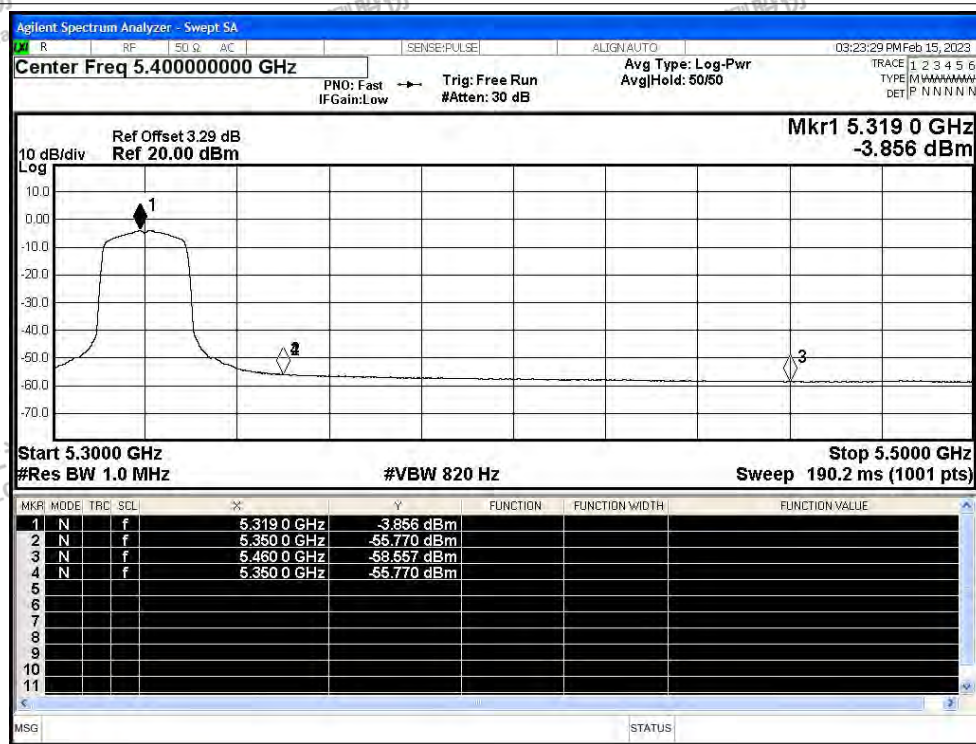
Scan code to check authenticity



## Restrict Band NVNT n20 5320MHz Ant1 Peak

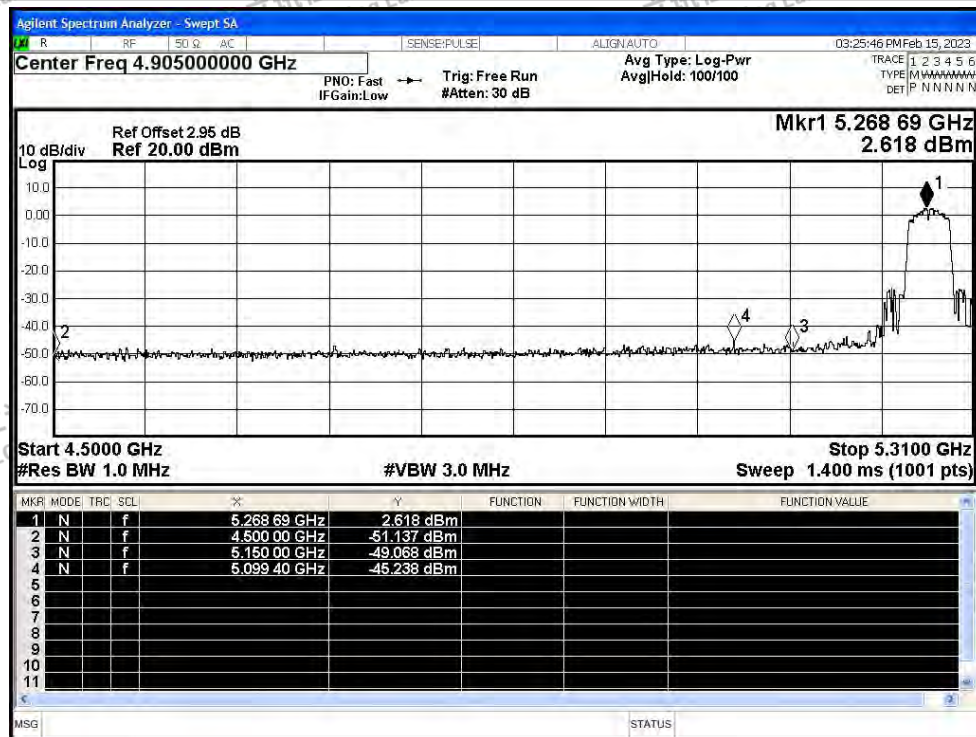


## Restrict Band NVNT n20 5320MHz Ant1 Average

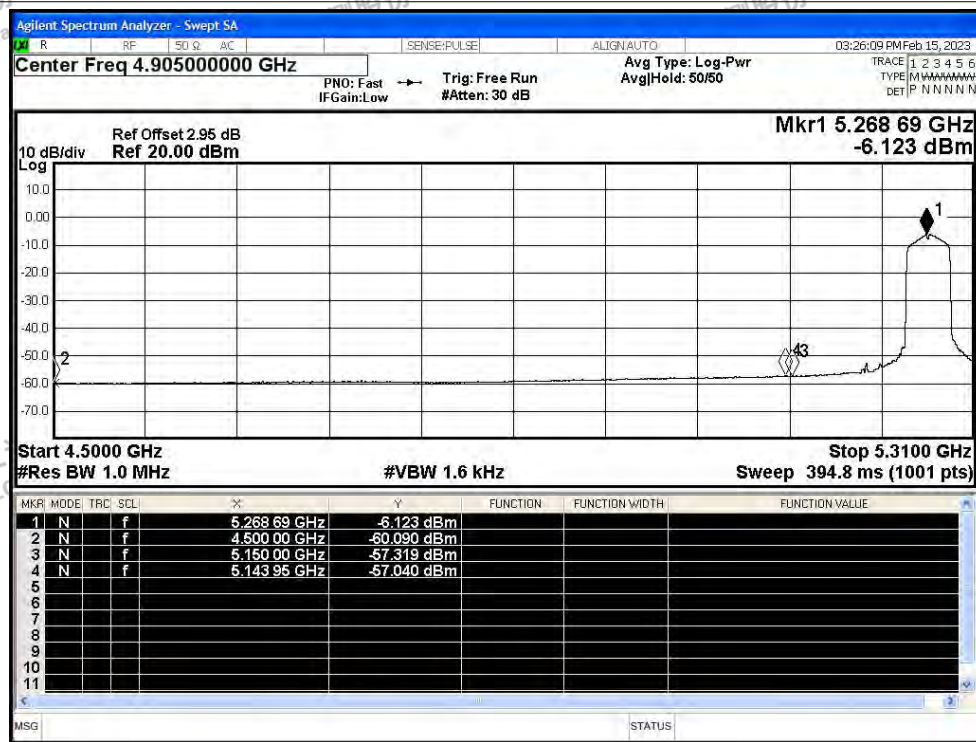




## Restrict Band NVNT n40 5270MHz Ant1 Peak

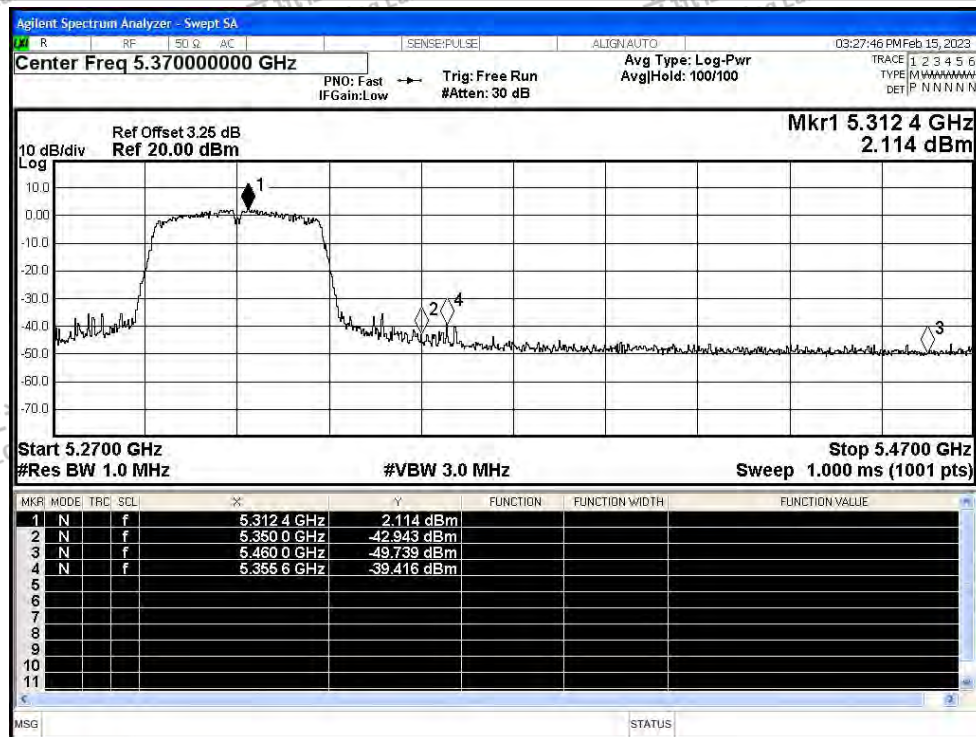


## Restrict Band NVNT n40 5270MHz Ant1 Average

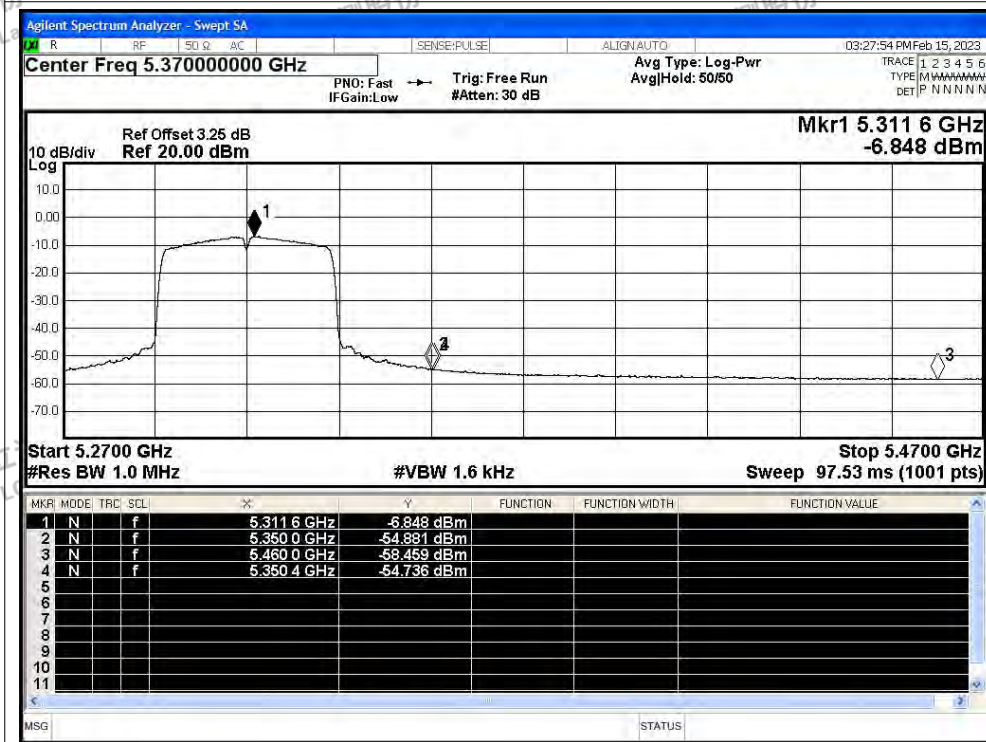




## Restrict Band NVNT n40 5310MHz Ant1 Peak



## Restrict Band NVNT n40 5310MHz Ant1 Average





## D.5 Frequency Stability

| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | a    | 5260            | Ant1    | 5259.98                  | -20000               | -3.8            | 25          | Pass    |
| NVNT      | a    | 5300            | Ant1    | 5300                     | 0                    | 0               | 25          | Pass    |
| NVNT      | a    | 5320            | Ant1    | 5320                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 5260            | Ant1    | 5260                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 5300            | Ant1    | 5300.04                  | 40000                | 7.55            | 25          | Pass    |
| NVNT      | n20  | 5320            | Ant1    | 5320                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n40  | 5270            | Ant1    | 5270                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n40  | 5310            | Ant1    | 5310                     | 0                    | 0               | 25          | Pass    |

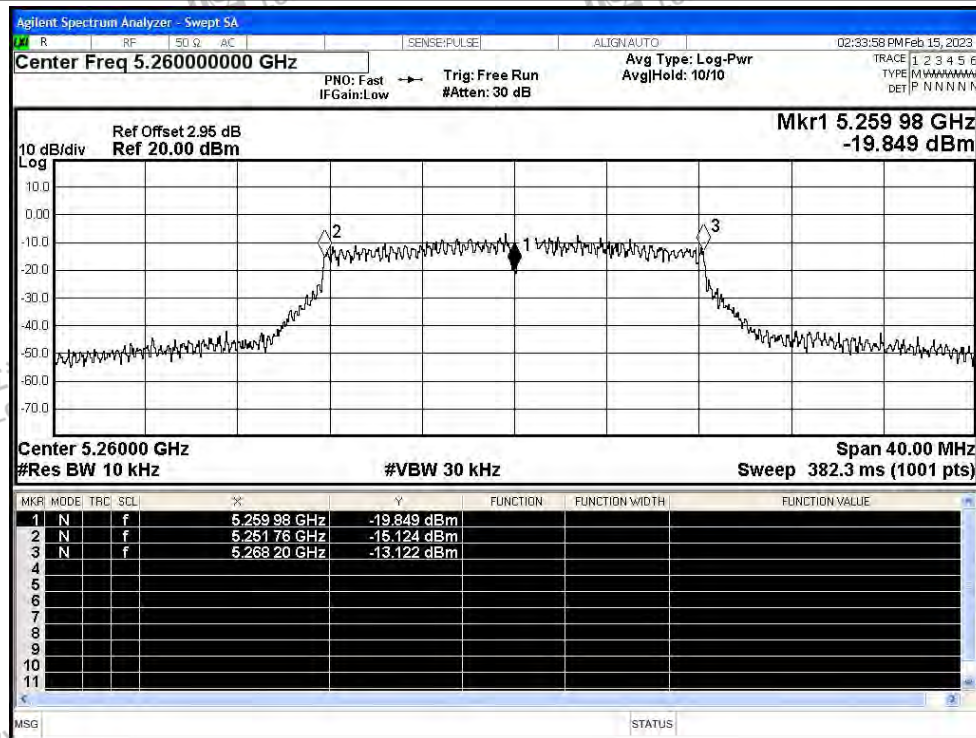


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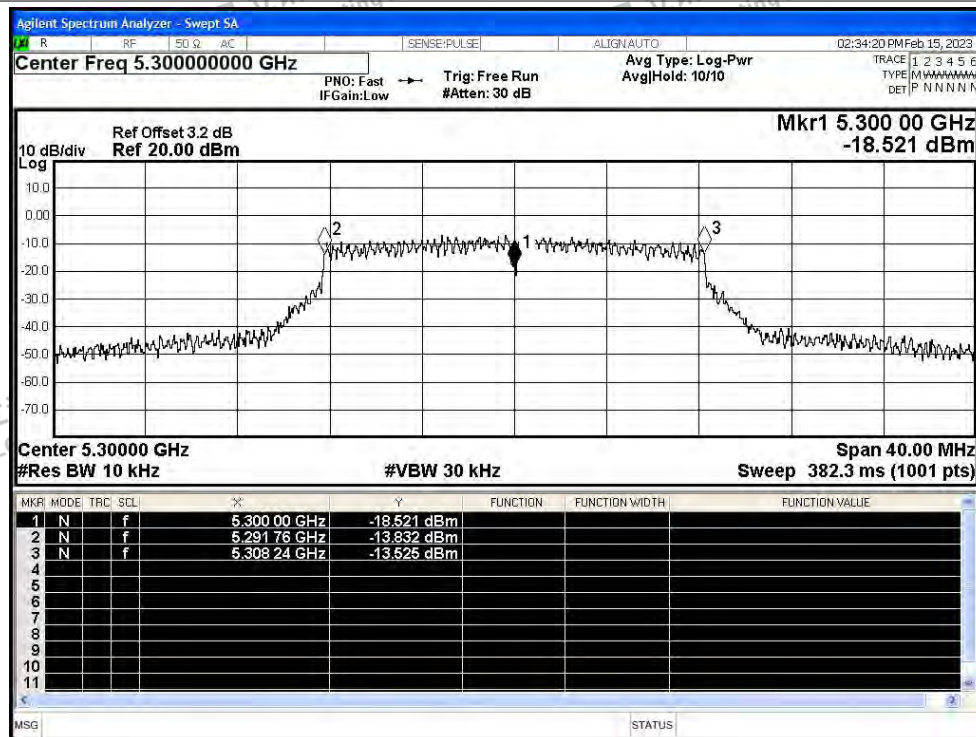


## Test Graphs

Freq. Stability NVNT a 5260MHz Ant1

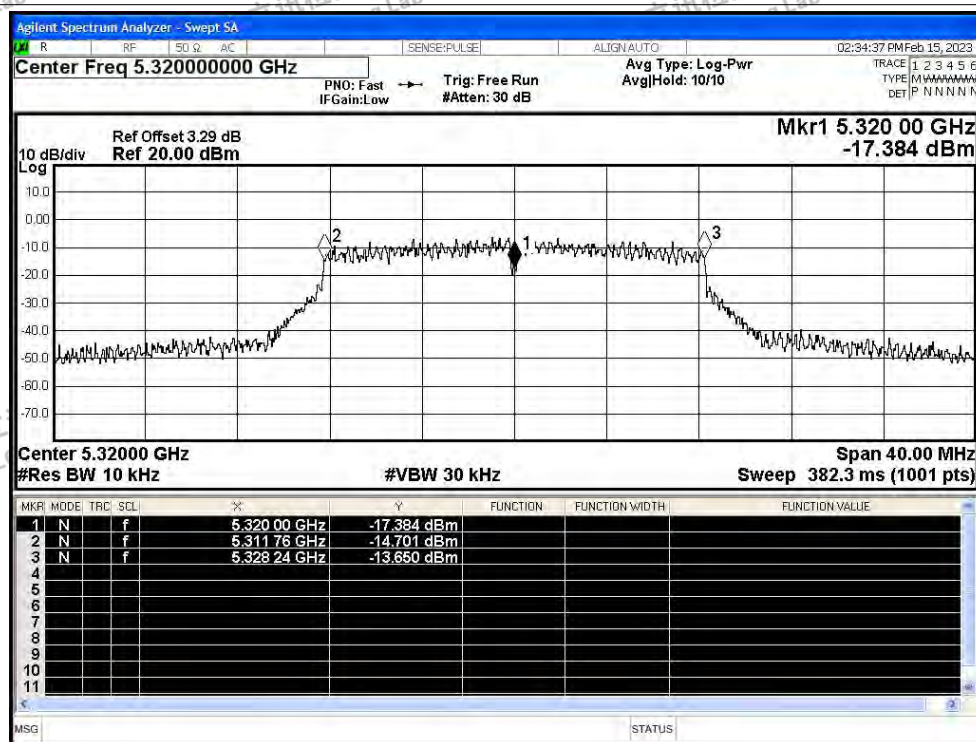


Freq. Stability NVNT a 5300MHz Ant1

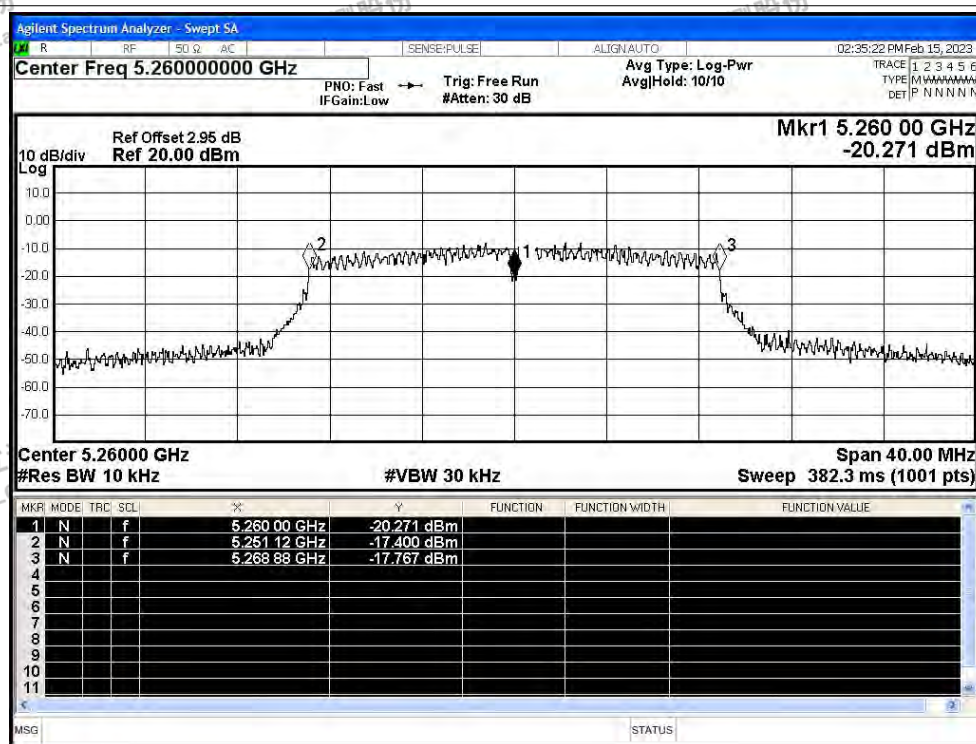




## Freq. Stability NVNT a 5320MHz Ant1



## Freq. Stability NVNT n20 5260MHz Ant1



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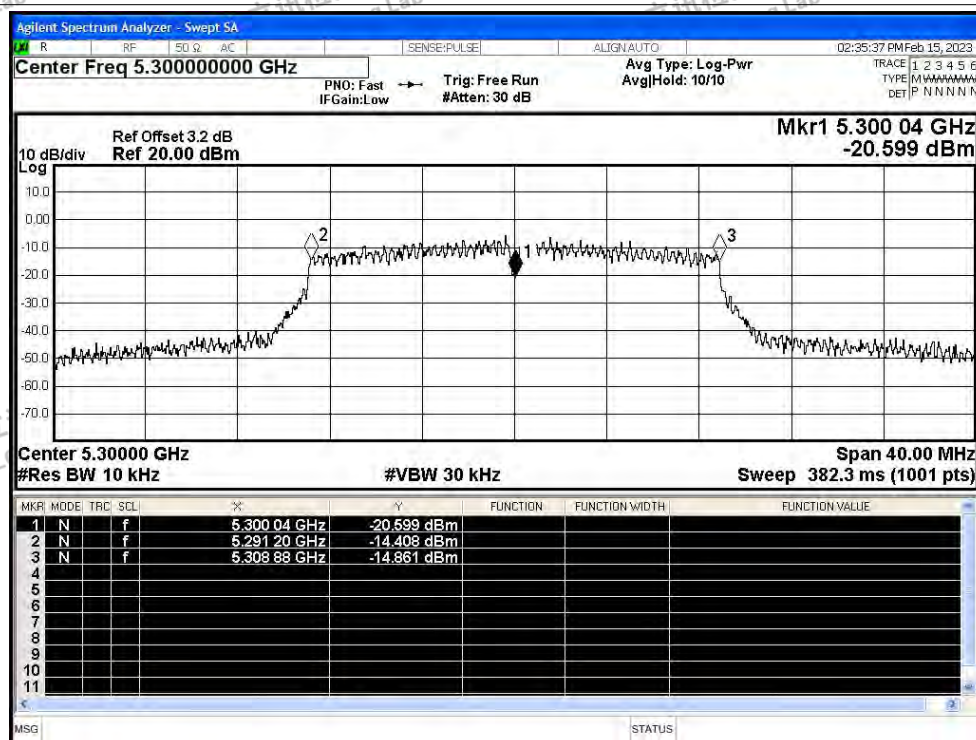
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

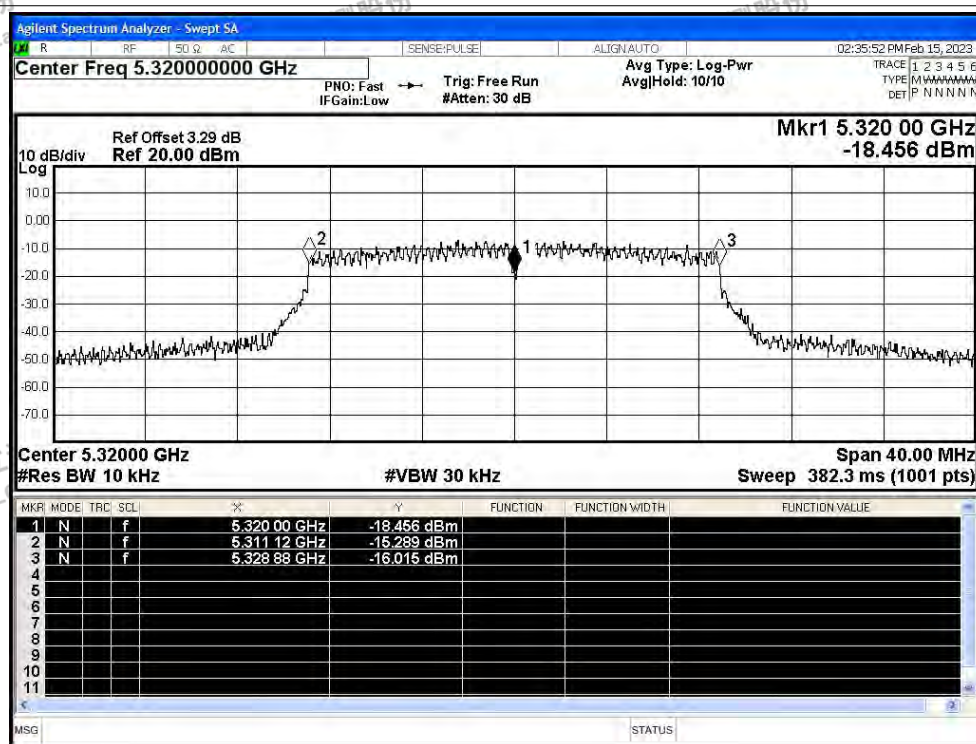
Scan code to check authenticity



## Freq. Stability NVNT n20 5300MHz Ant1

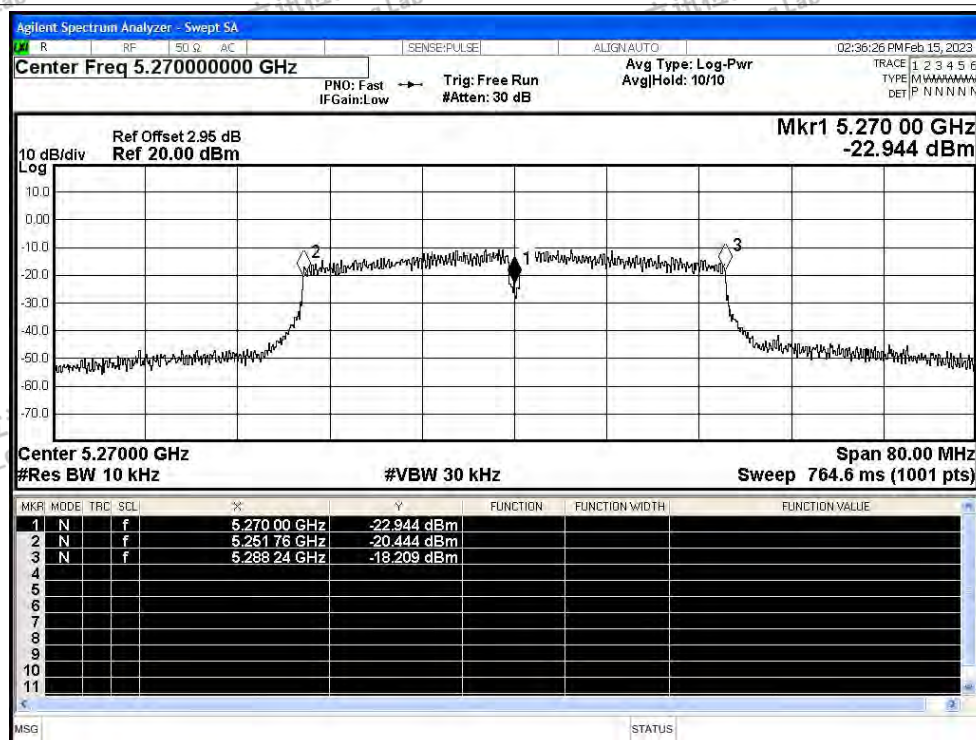


## Freq. Stability NVNT n20 5320MHz Ant1

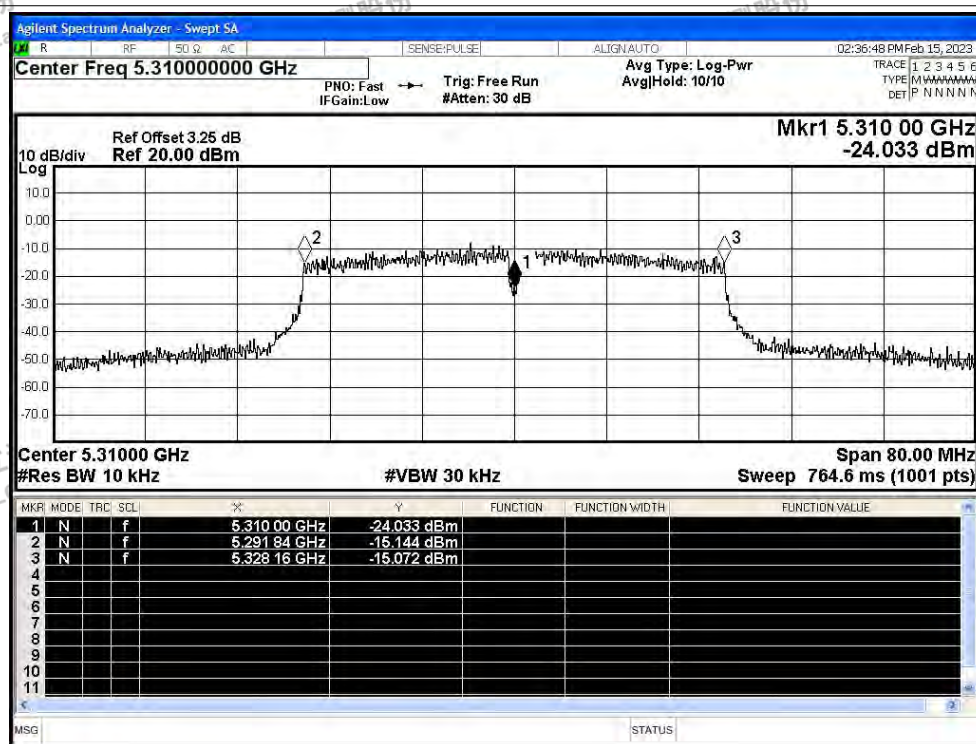




## Freq. Stability NVNT n40 5270MHz Ant1



## Freq. Stability NVNT n40 5310MHz Ant1





## D.6 Duty Cycle

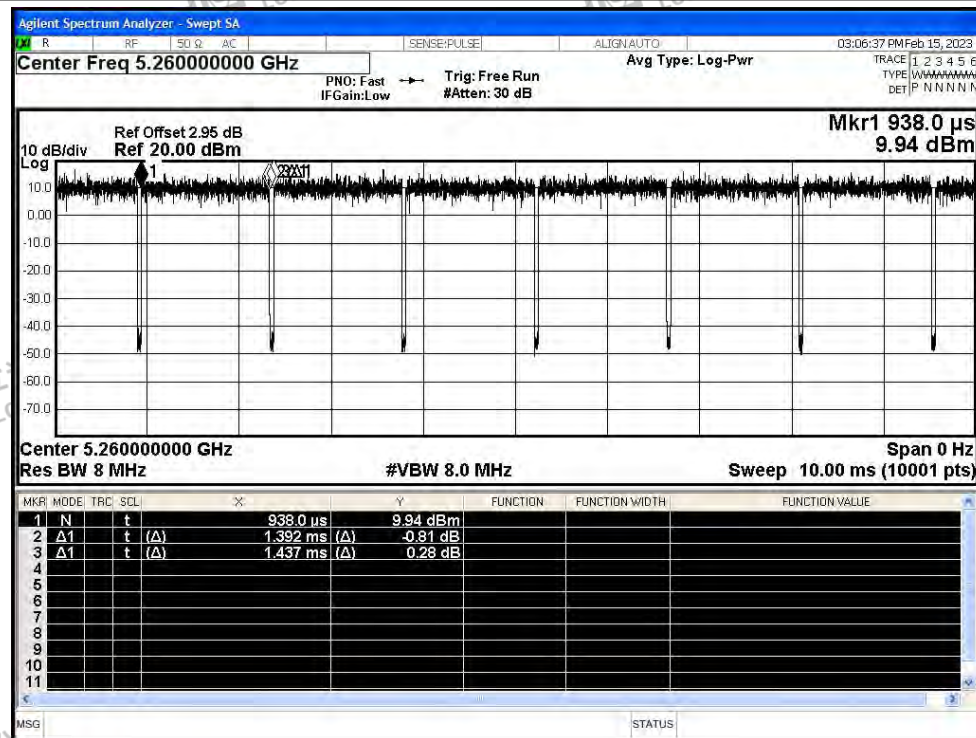
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5260            | Ant1    | 96.87          | 0.14                   | 0.72      |
| NVNT      | a    | 5300            | Ant1    | 96.94          | 0.13                   | 0.72      |
| NVNT      | a    | 5320            | Ant1    | 96.87          | 0.14                   | 0.72      |
| NVNT      | n20  | 5260            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n20  | 5300            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n20  | 5320            | Ant1    | 96.73          | 0.14                   | 0.77      |
| NVNT      | n40  | 5270            | Ant1    | 93.79          | 0.28                   | 1.54      |
| NVNT      | n40  | 5310            | Ant1    | 93.65          | 0.28                   | 1.54      |



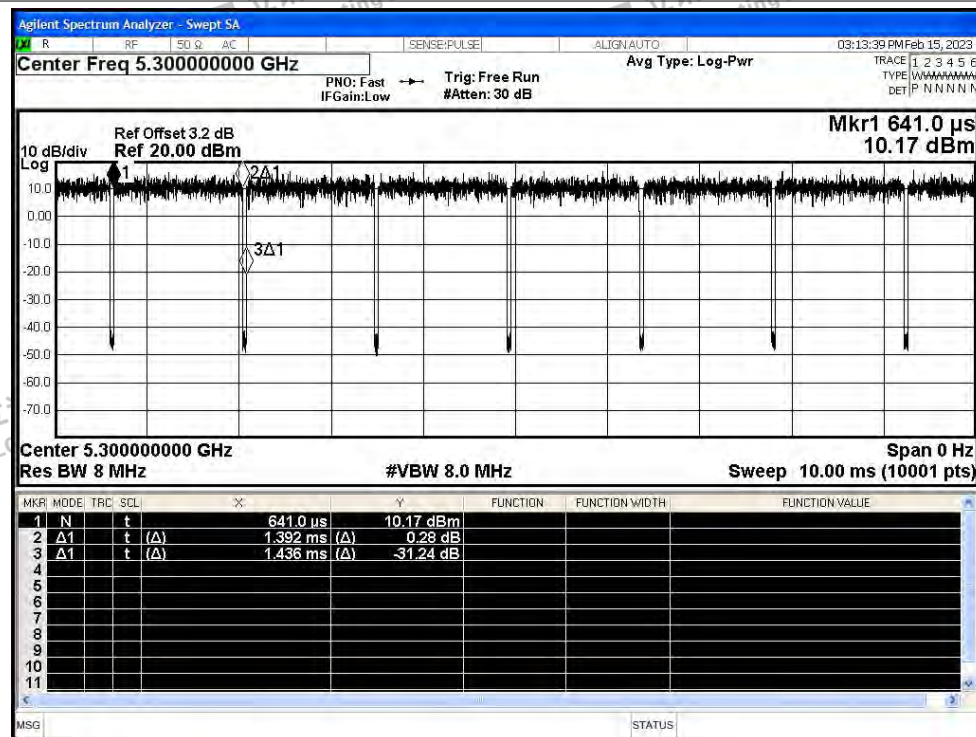


## Test Graphs

## Duty Cycle NVNT a 5260MHz Ant1



## Duty Cycle NVNT a 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

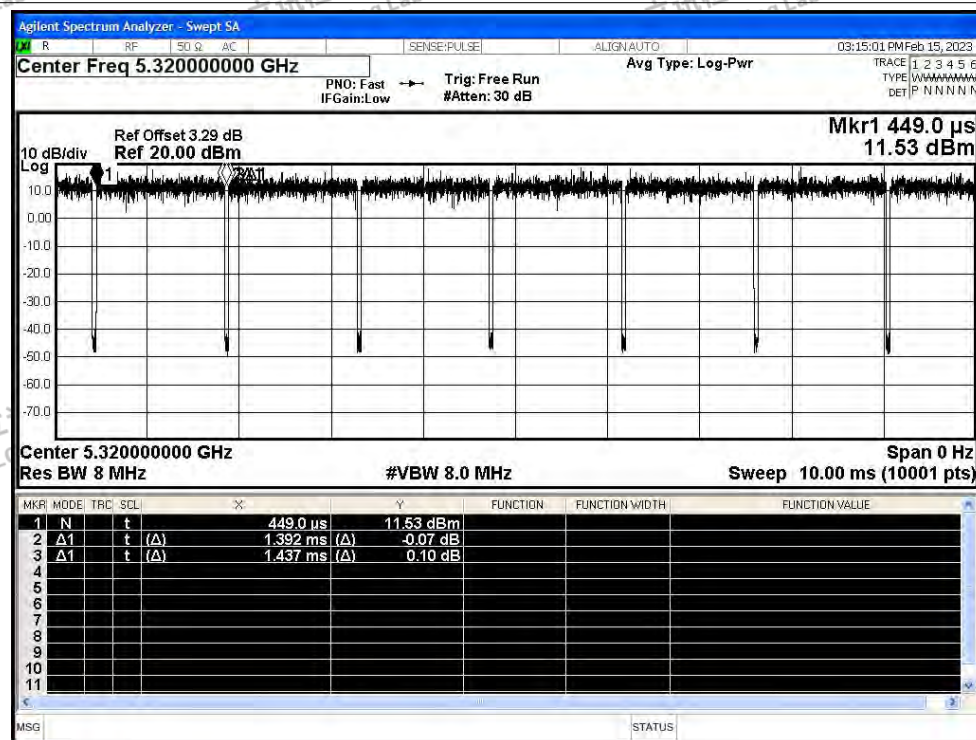
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

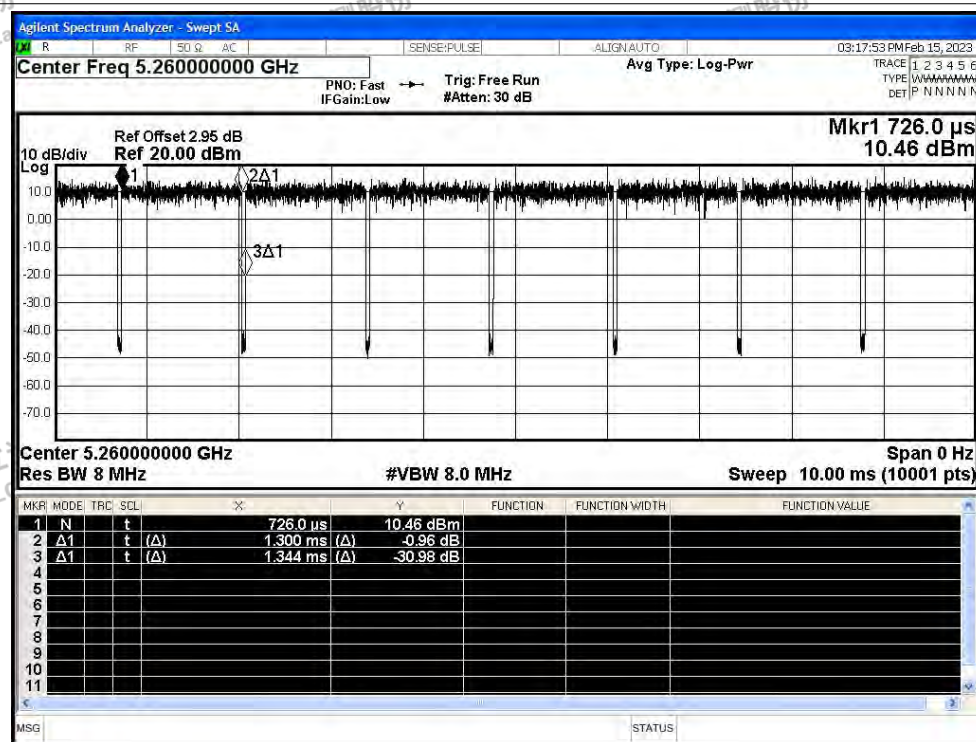
Scan code to check authenticity



## Duty Cycle NVNT a 5320MHz Ant1

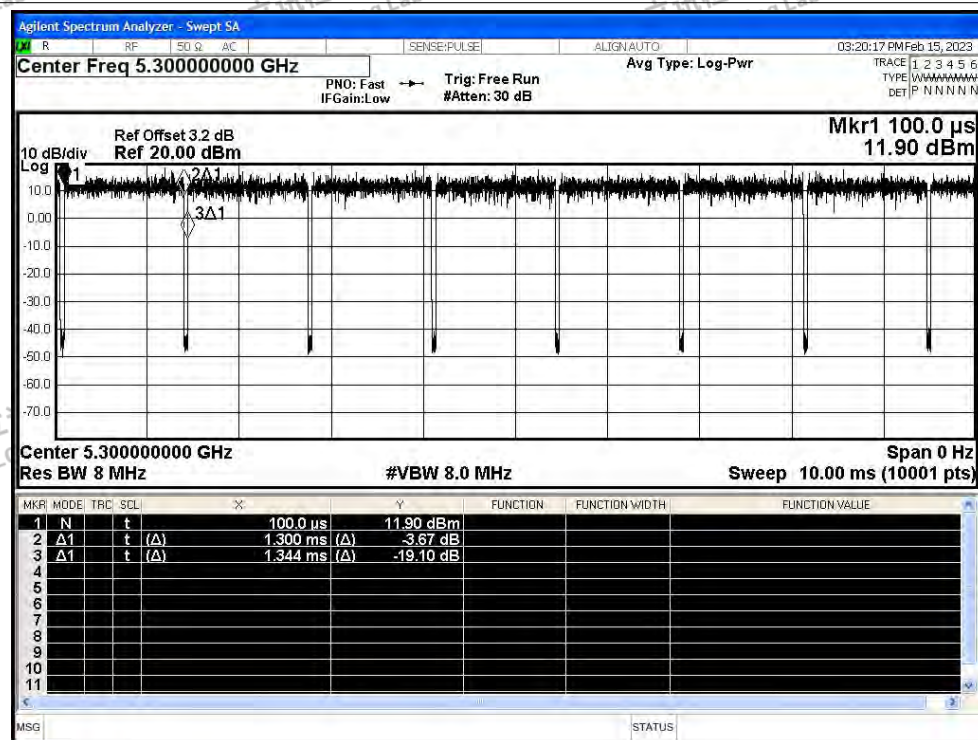


## Duty Cycle NVNT n20 5260MHz Ant1

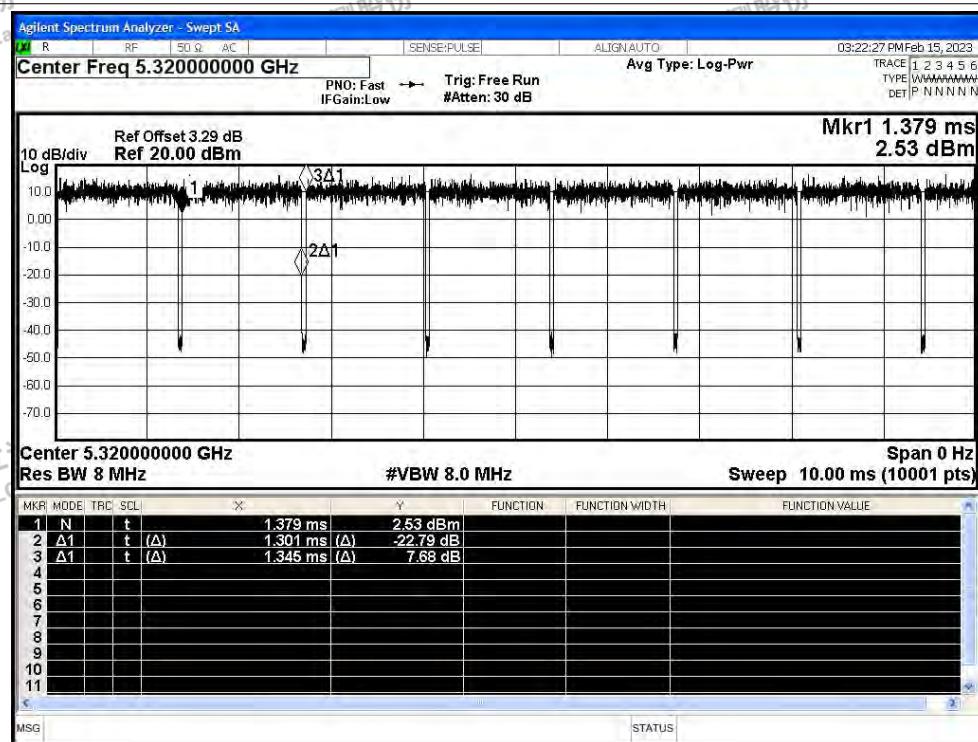




## Duty Cycle NVNT n20 5300MHz Ant1

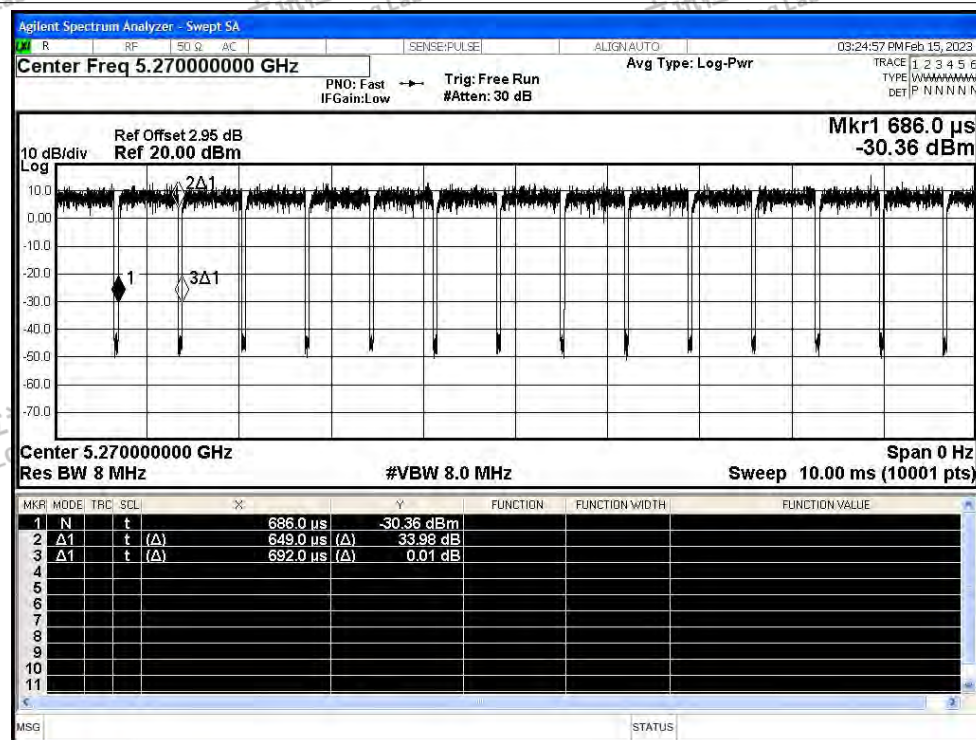


## Duty Cycle NVNT n20 5320MHz Ant1





## Duty Cycle NVNT n40 5270MHz Ant1



## Duty Cycle NVNT n40 5310MHz Ant1

