



# Appendix F

## RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: Smart ARM PC BOX

Test Model: AIB-3566

### Environmental Conditions

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





### F.1 -26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5500            | Ant1    | 25.834                 | >=0.5                        | Pass    |
| NVNT      | a    | 5580            | Ant1    | 27.853                 | >=0.5                        | Pass    |
| NVNT      | a    | 5700            | Ant1    | 29.304                 | >=0.5                        | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 23.815                 | >=0.5                        | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 27.998                 | >=0.5                        | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 26.324                 | >=0.5                        | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 51.741                 | >=0.5                        | Pass    |
| NVNT      | n40  | 5550            | Ant1    | 45.359                 | >=0.5                        | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 44.084                 | >=0.5                        | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 23.189                 | >=0.5                        | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 25.815                 | >=0.5                        | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 28.95                  | >=0.5                        | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | 44.655                 | >=0.5                        | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | 54.434                 | >=0.5                        | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | 46.482                 | >=0.5                        | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | 78.039                 | >=0.5                        | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | 78.245                 | >=0.5                        | Pass    |

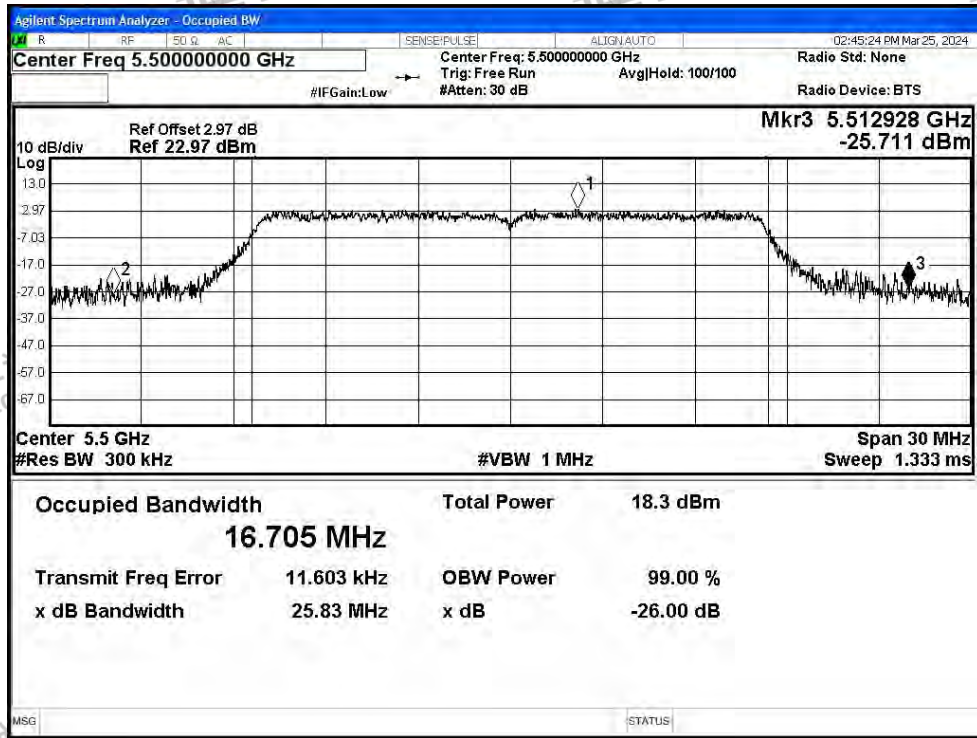


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

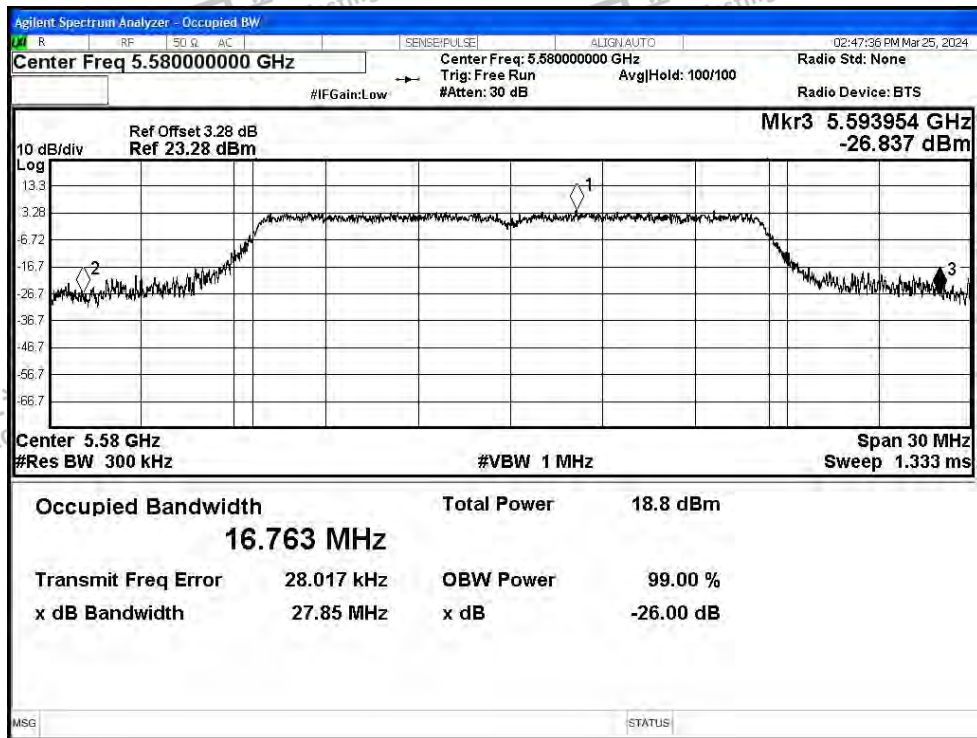


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1

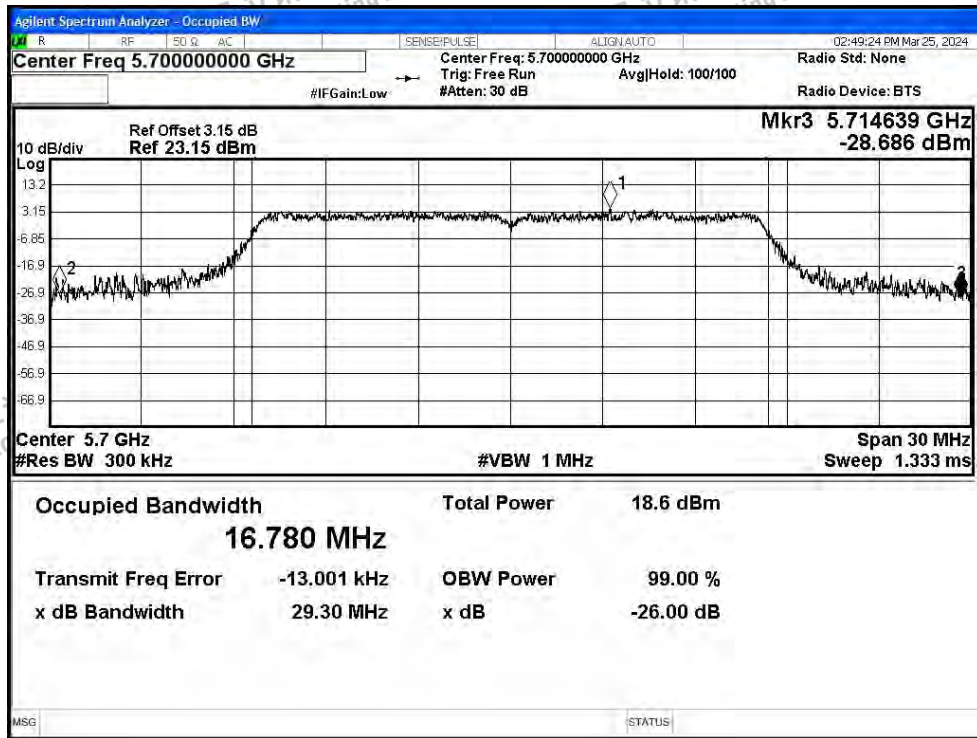


-26dB Bandwidth NVNT a 5580MHz Ant1

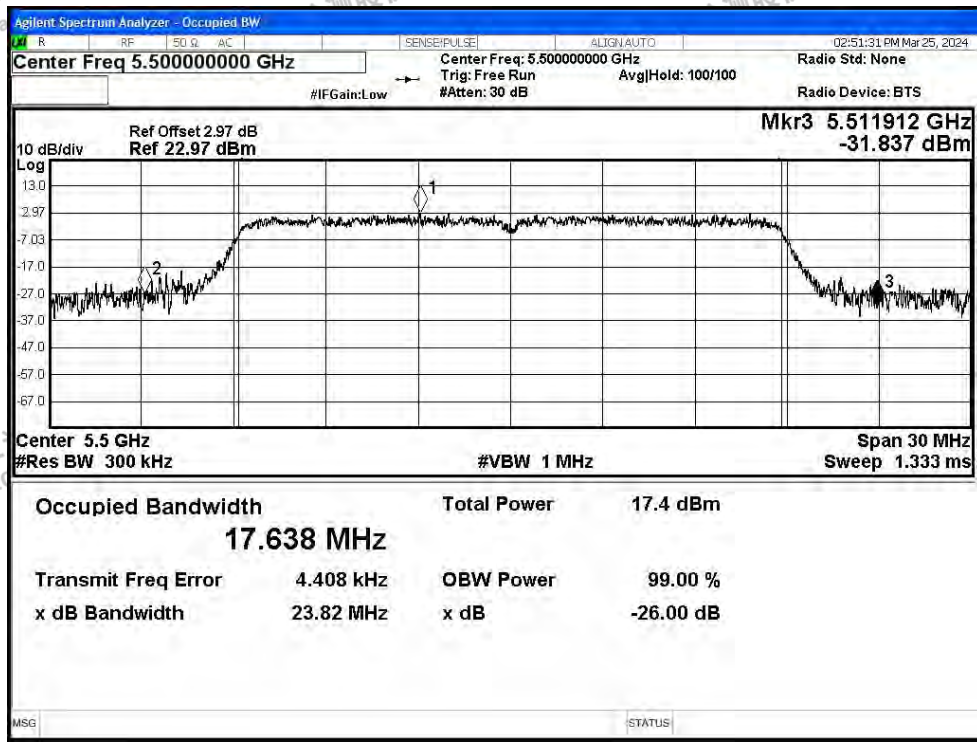




-26dB Bandwidth NVNT a 5700MHz Ant1

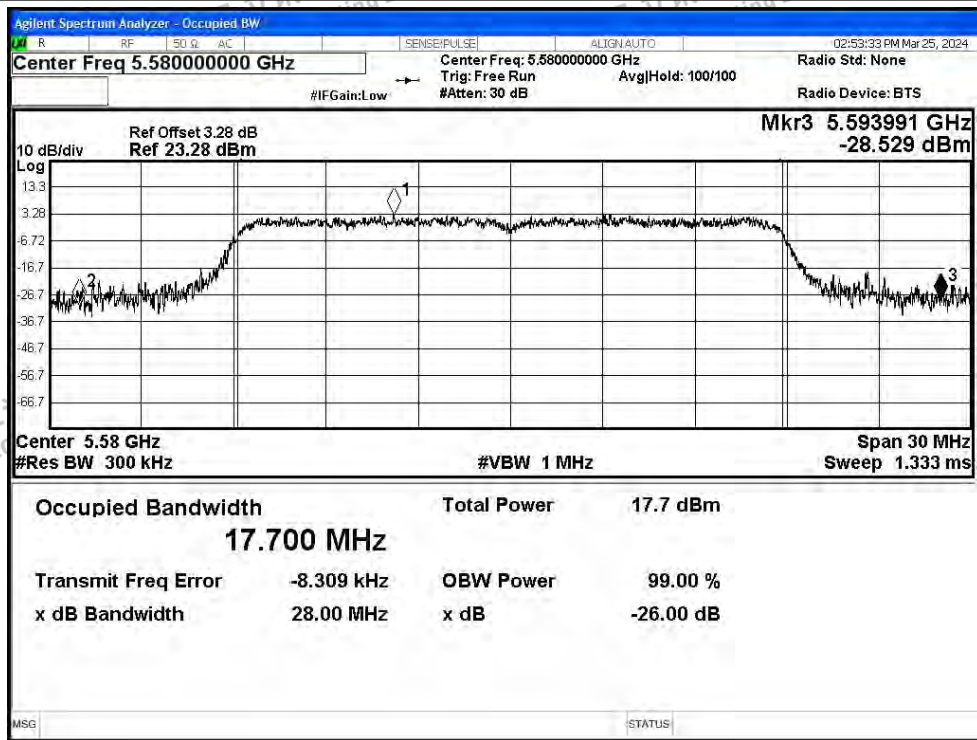


-26dB Bandwidth NVNT n20 5500MHz Ant1

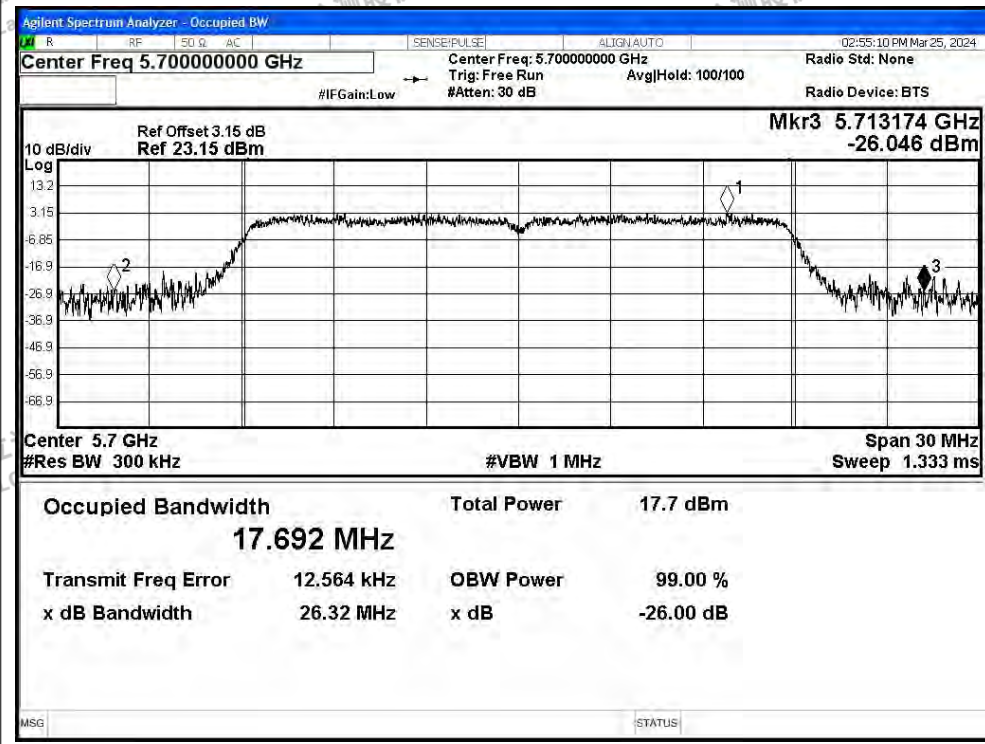




-26dB Bandwidth NVNT n20 5580MHz Ant1

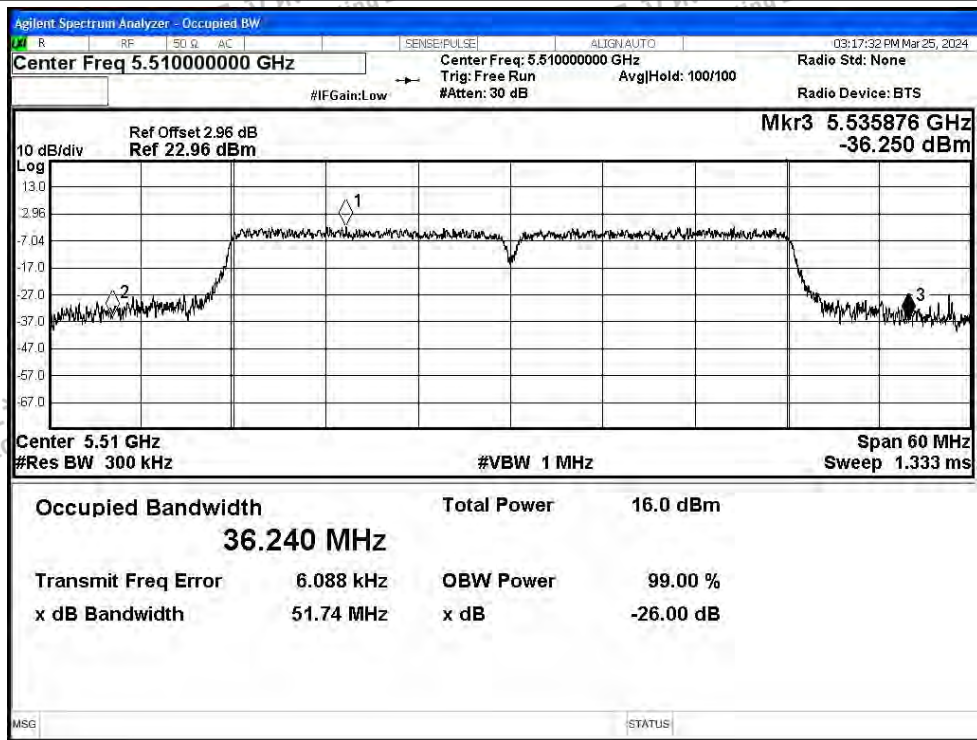


-26dB Bandwidth NVNT n20 5700MHz Ant1

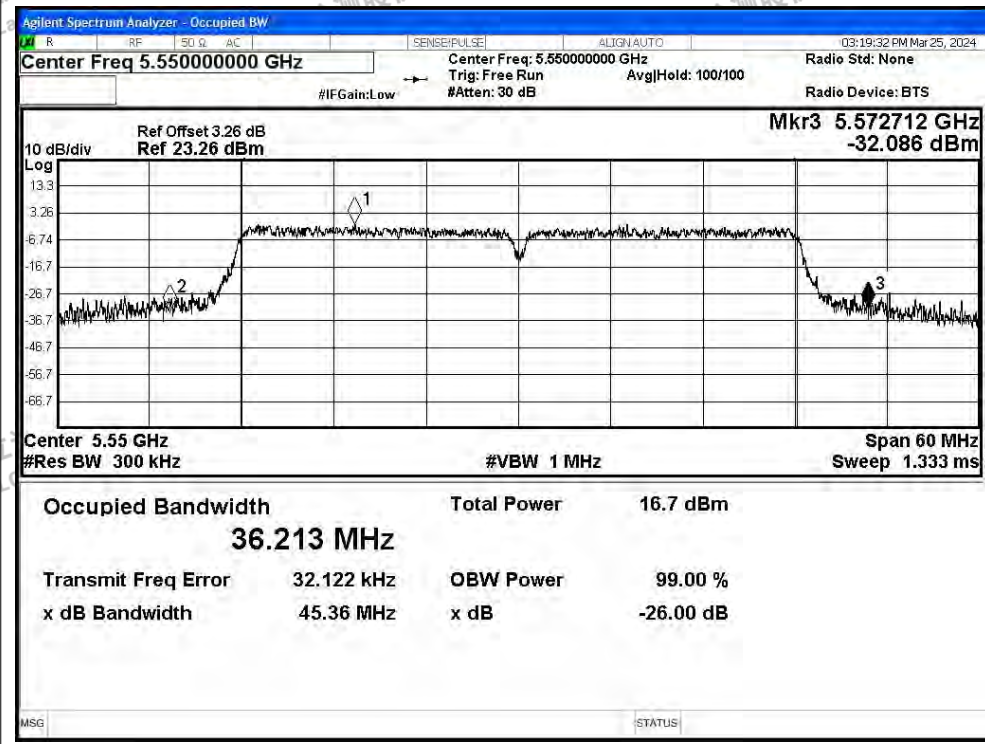




-26dB Bandwidth NVNT n40 5510MHz Ant1

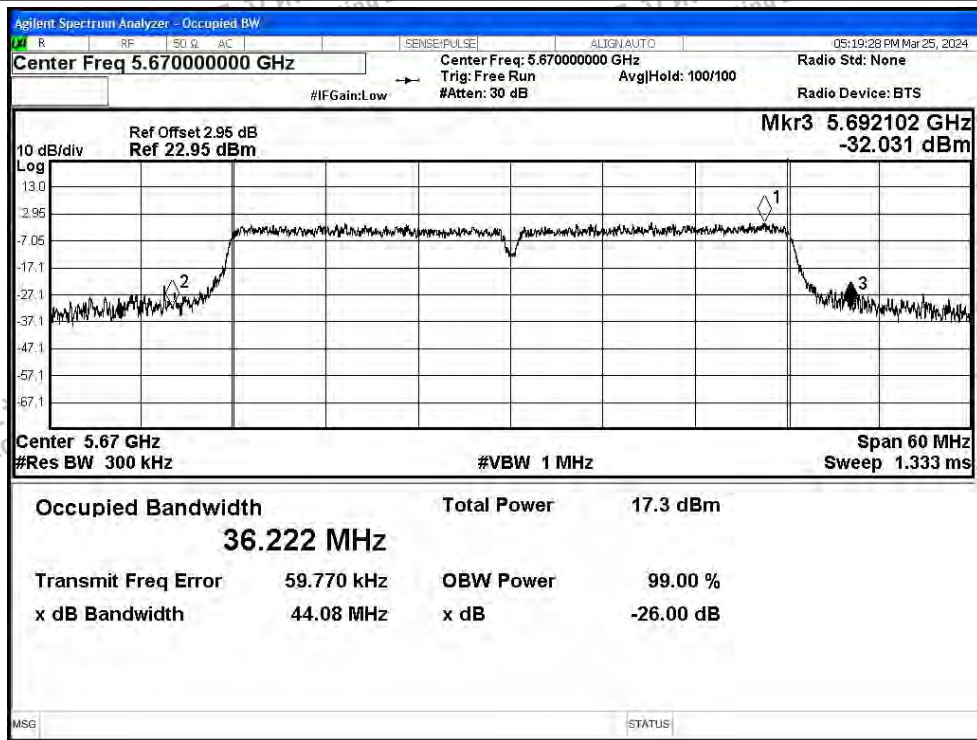


-26dB Bandwidth NVNT n40 5550MHz Ant1

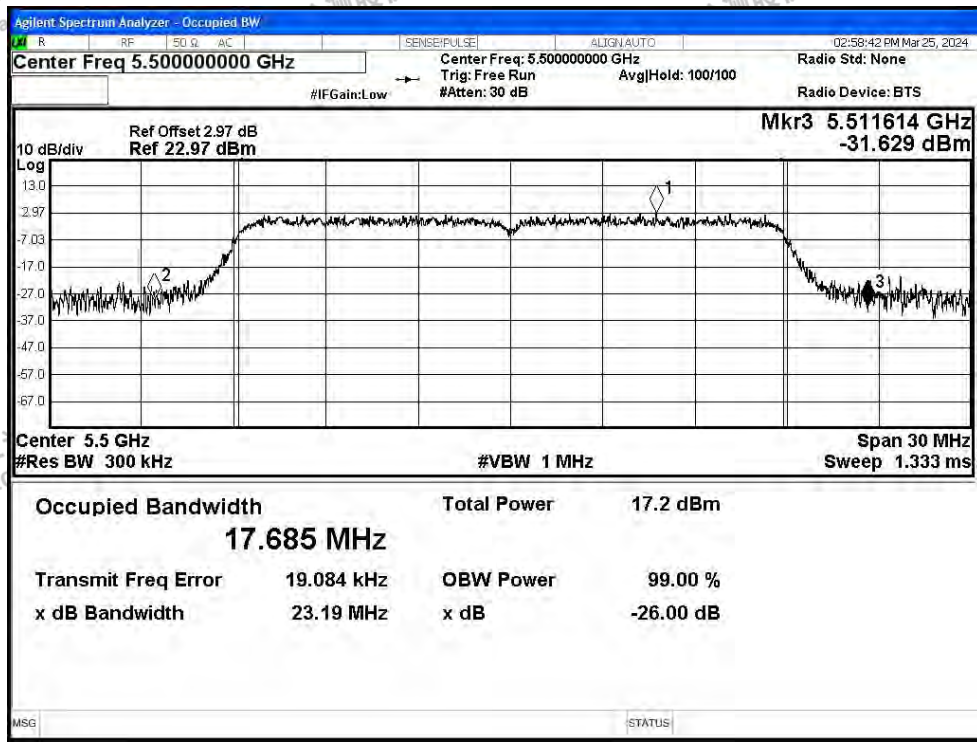




-26dB Bandwidth NVNT n40 5670MHz Ant1

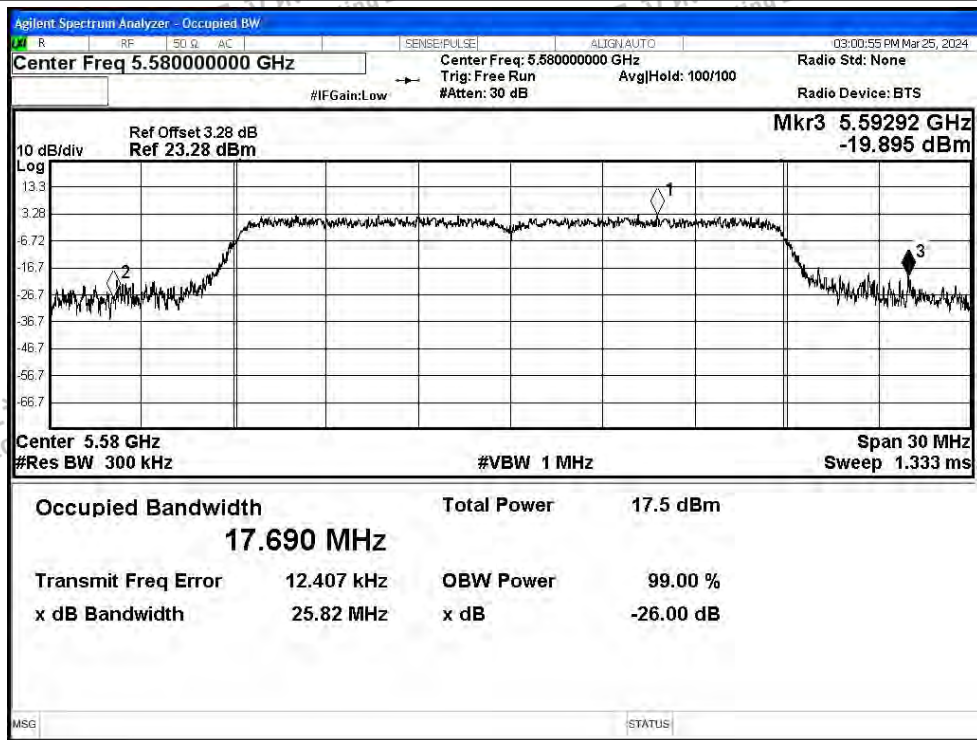


-26dB Bandwidth NVNT ac20 5500MHz Ant1

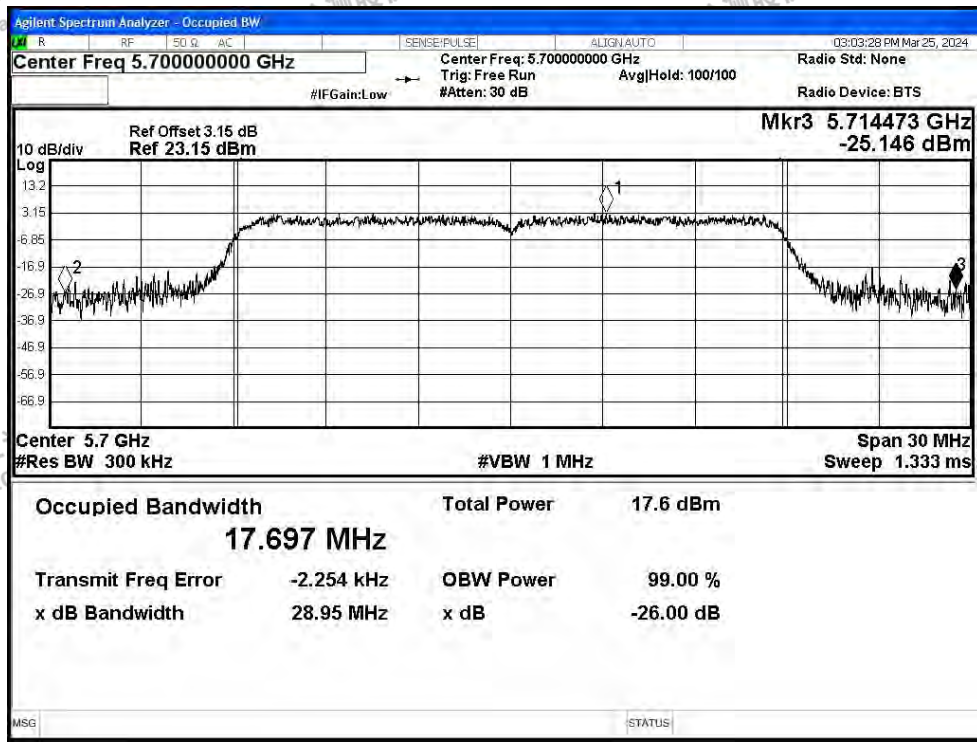




-26dB Bandwidth NVNT ac20 5580MHz Ant1



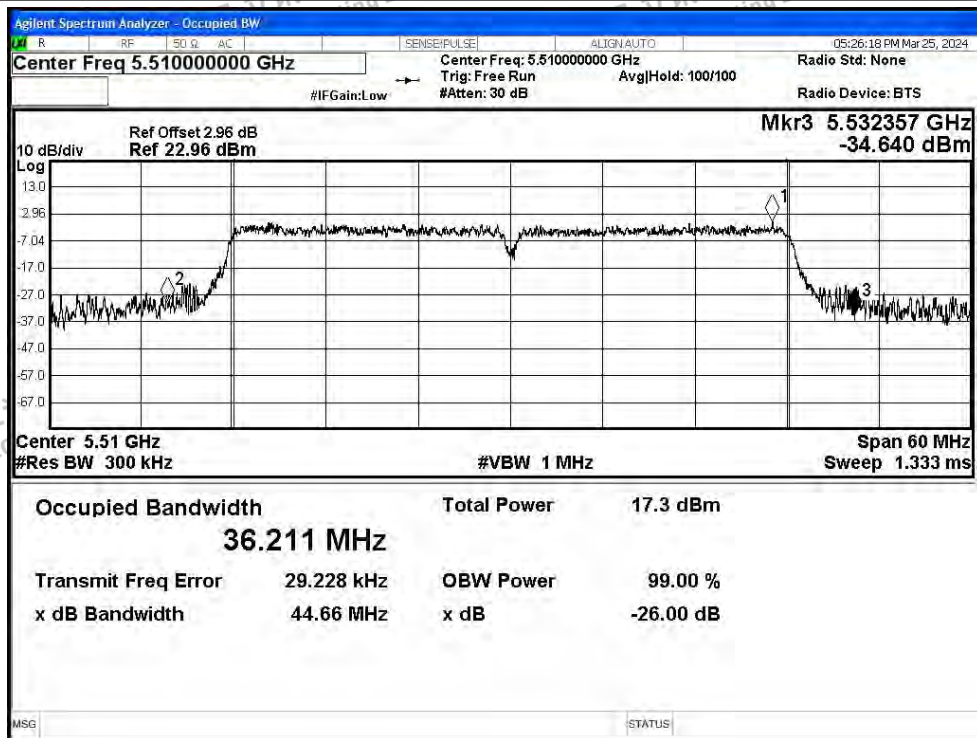
-26dB Bandwidth NVNT ac20 5700MHz Ant1



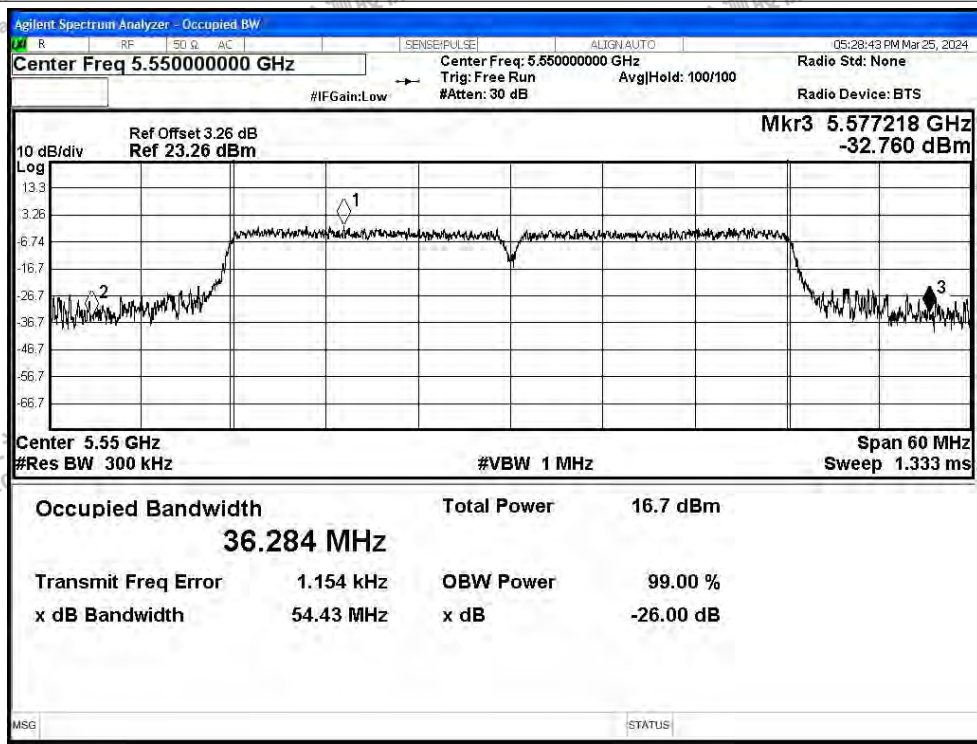




-26dB Bandwidth NVNT ac40 5510MHz Ant1

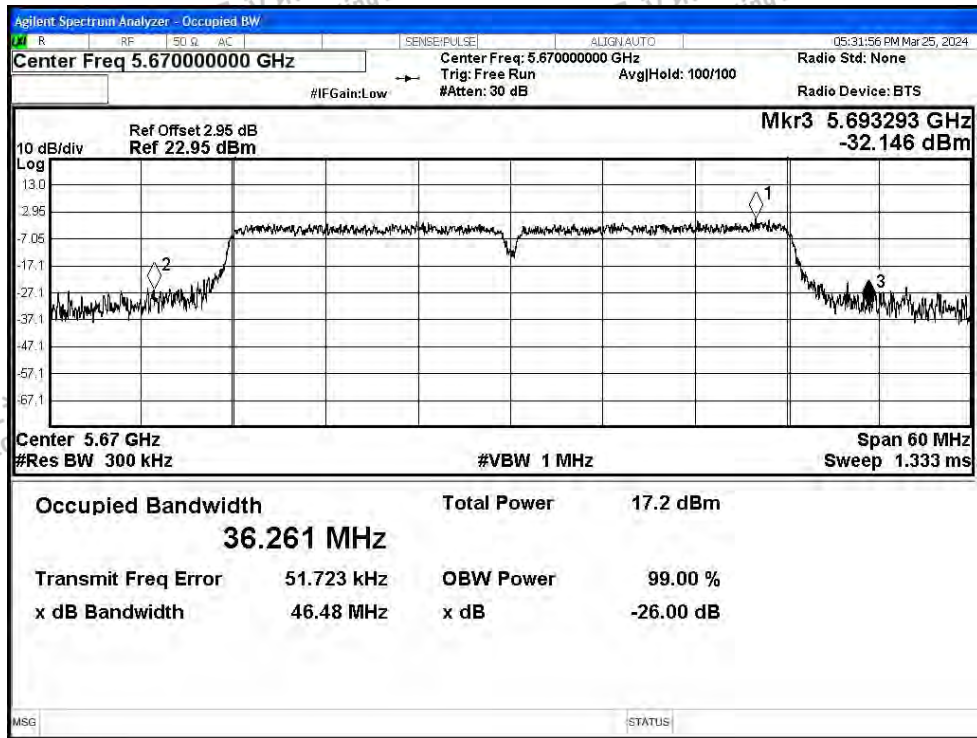


-26dB Bandwidth NVNT ac40 5550MHz Ant1

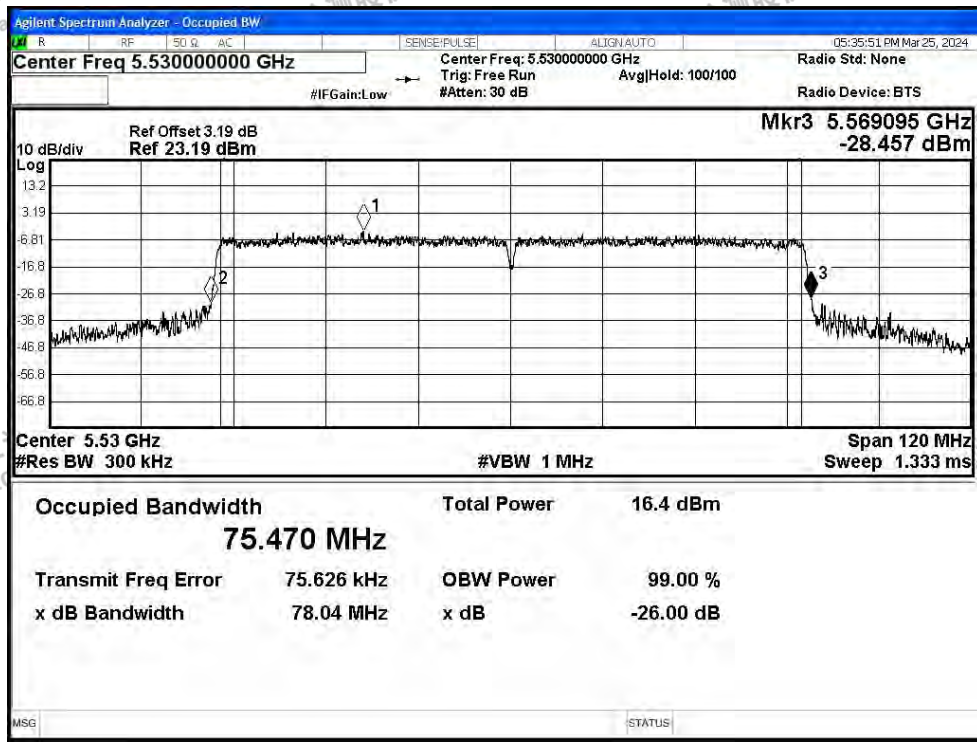




-26dB Bandwidth NVNT ac40 5670MHz Ant1

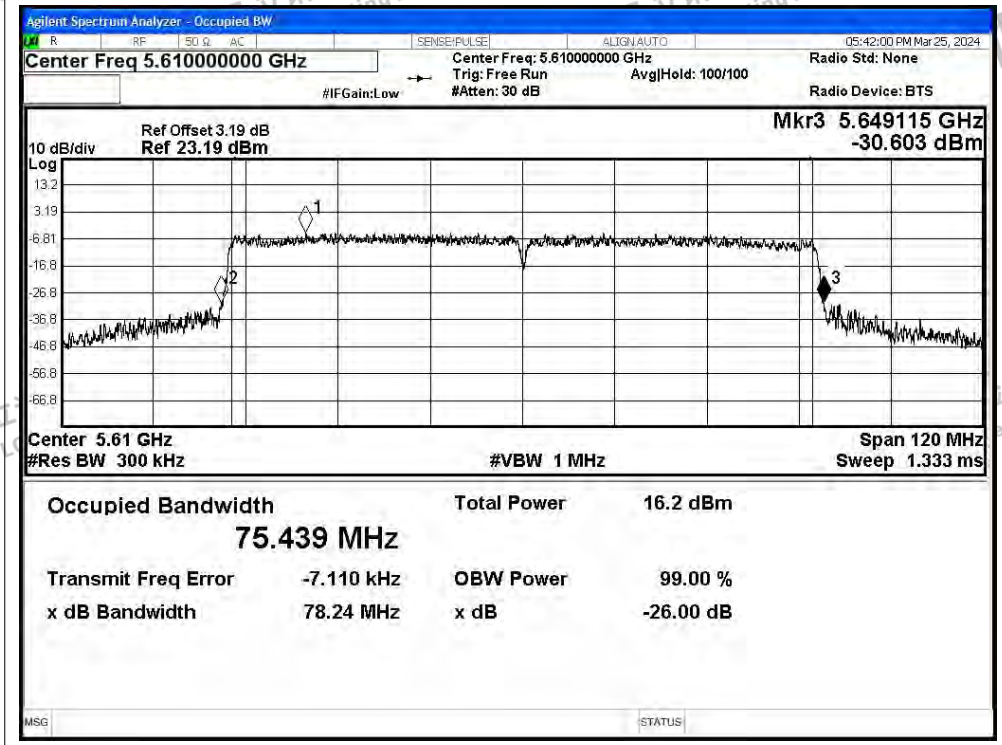


-26dB Bandwidth NVNT ac80 5530MHz Ant1





-26dB Bandwidth NVNT ac80 5610MHz Ant1





| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5500            | Ant2    | 25.318                 | ---                          | Pass    |
| NVNT      | a    | 5580            | Ant2    | 28.308                 | ---                          | Pass    |
| NVNT      | a    | 5700            | Ant2    | 25.782                 | ---                          | Pass    |
| NVNT      | n20  | 5500            | Ant2    | 26.658                 | ---                          | Pass    |
| NVNT      | n20  | 5580            | Ant2    | 29.236                 | ---                          | Pass    |
| NVNT      | n20  | 5700            | Ant2    | 29.008                 | ---                          | Pass    |
| NVNT      | n40  | 5510            | Ant2    | 44.837                 | ---                          | Pass    |
| NVNT      | n40  | 5550            | Ant2    | 43.796                 | ---                          | Pass    |
| NVNT      | n40  | 5670            | Ant2    | 46.591                 | ---                          | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | 26.224                 | ---                          | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | 26.528                 | ---                          | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 29.194                 | ---                          | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | 53.058                 | ---                          | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | 49.261                 | ---                          | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | 54.669                 | ---                          | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | 78.028                 | ---                          | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | 78.228                 | ---                          | Pass    |

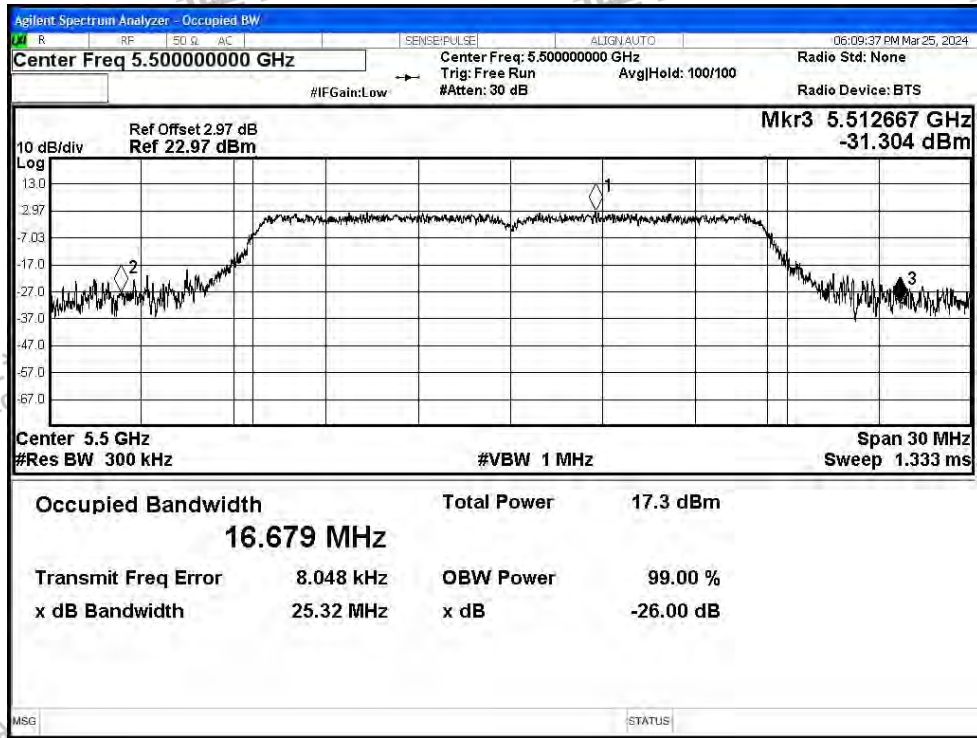


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

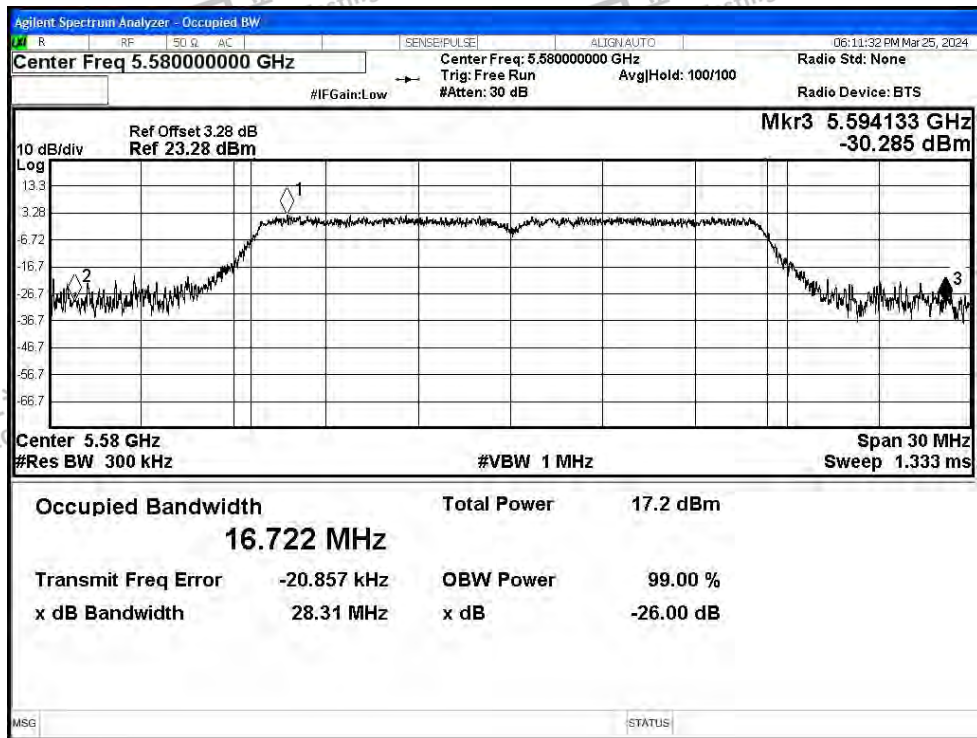


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant2

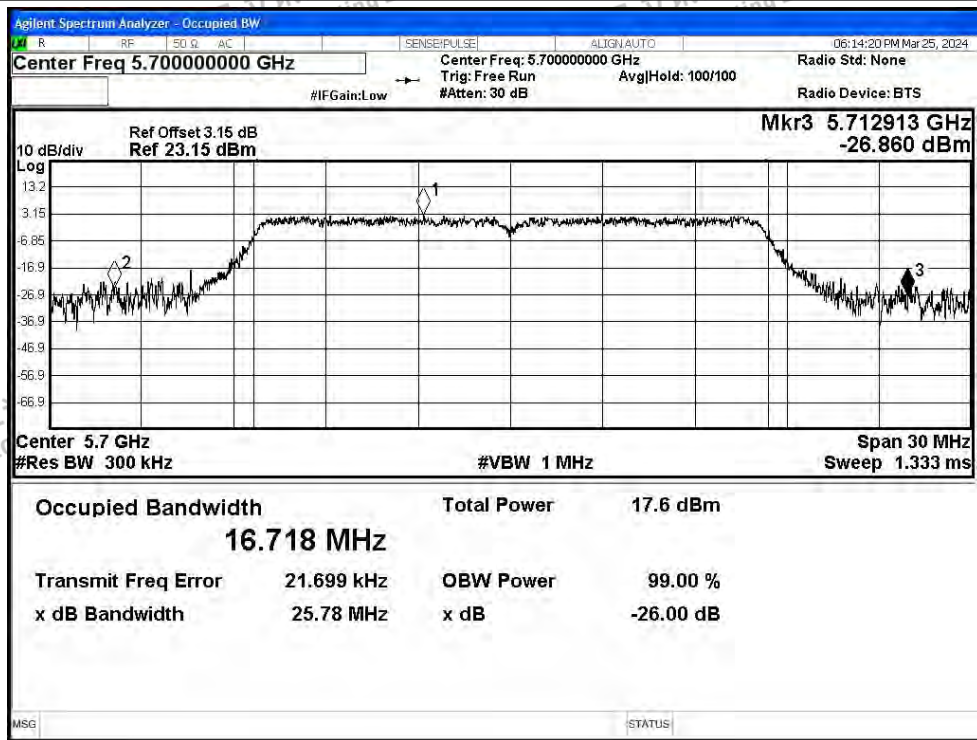


-26dB Bandwidth NVNT a 5580MHz Ant2

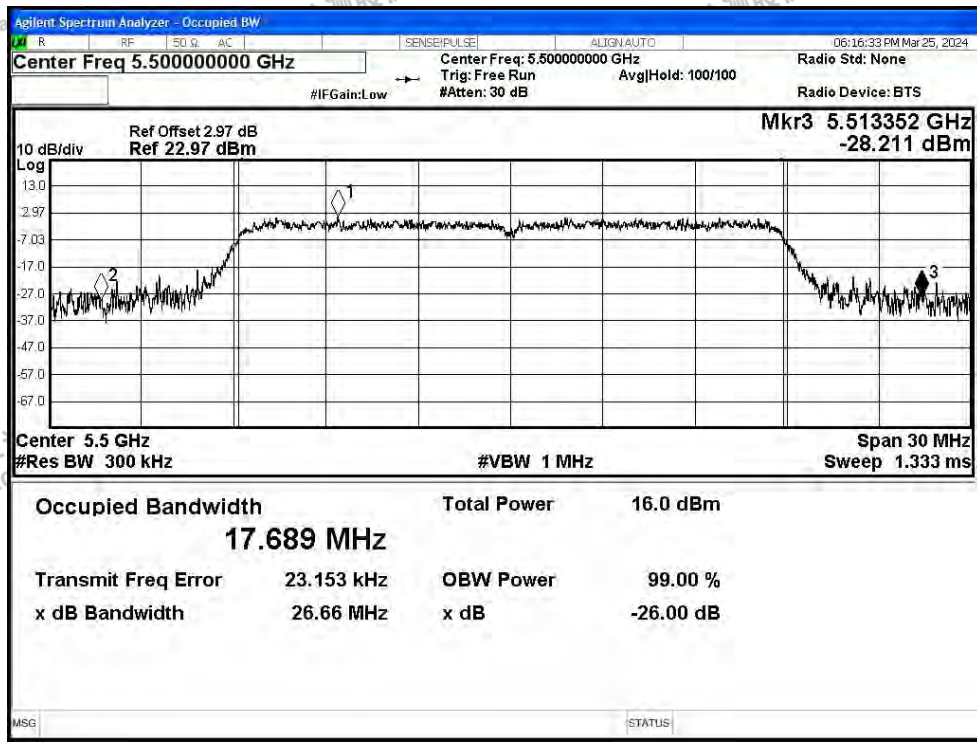




-26dB Bandwidth NVNT a 5700MHz Ant2

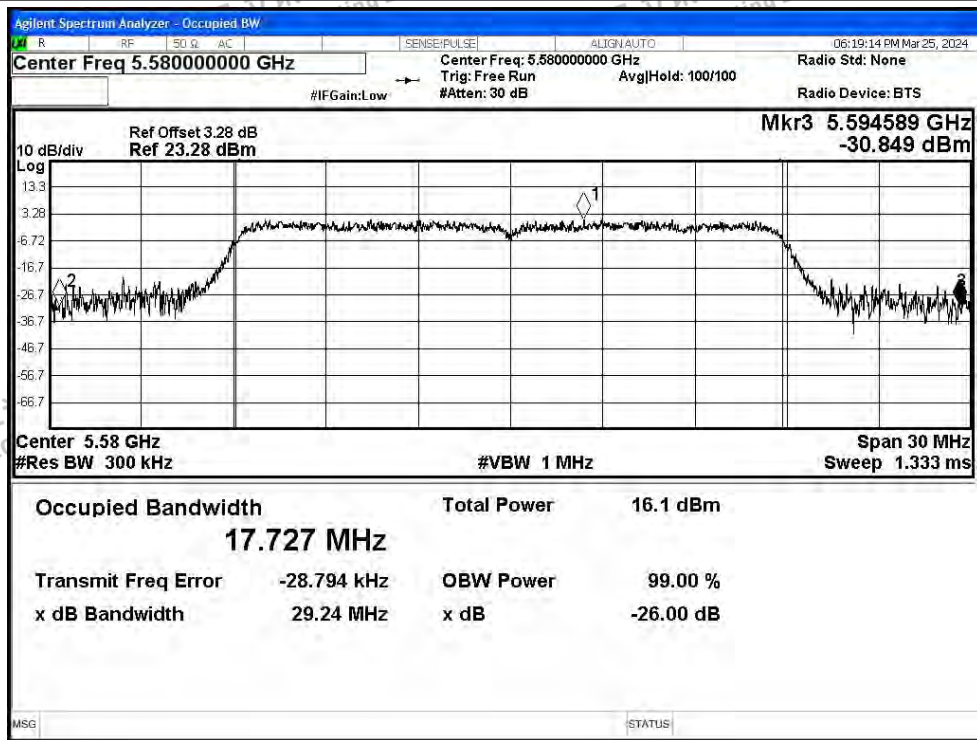


-26dB Bandwidth NVNT n20 5500MHz Ant2

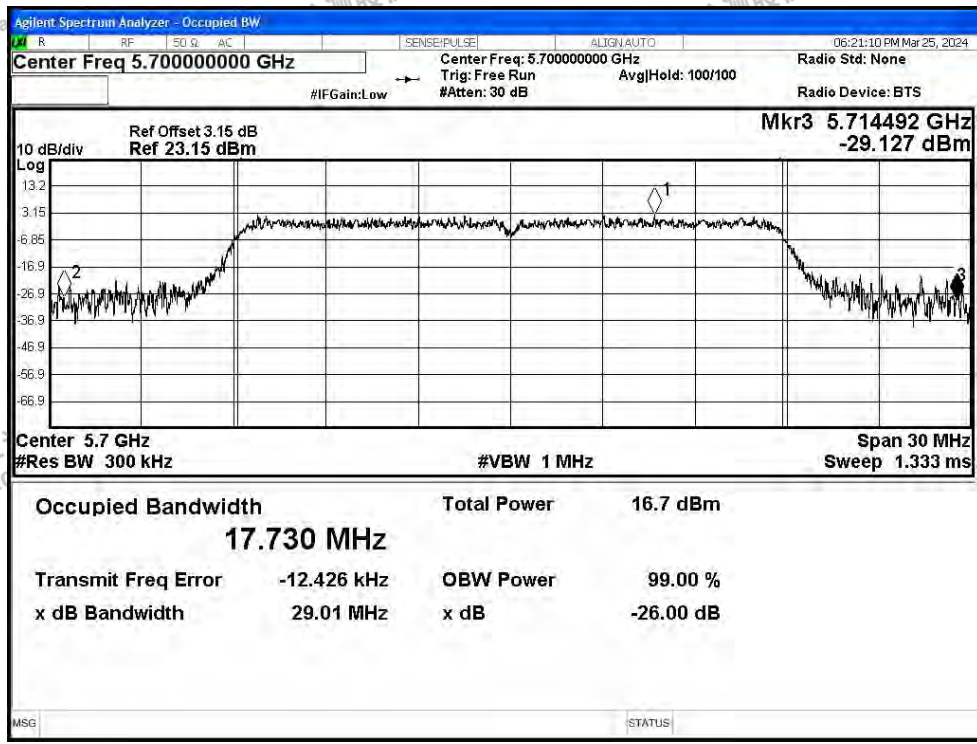




-26dB Bandwidth NVNT n20 5580MHz Ant2

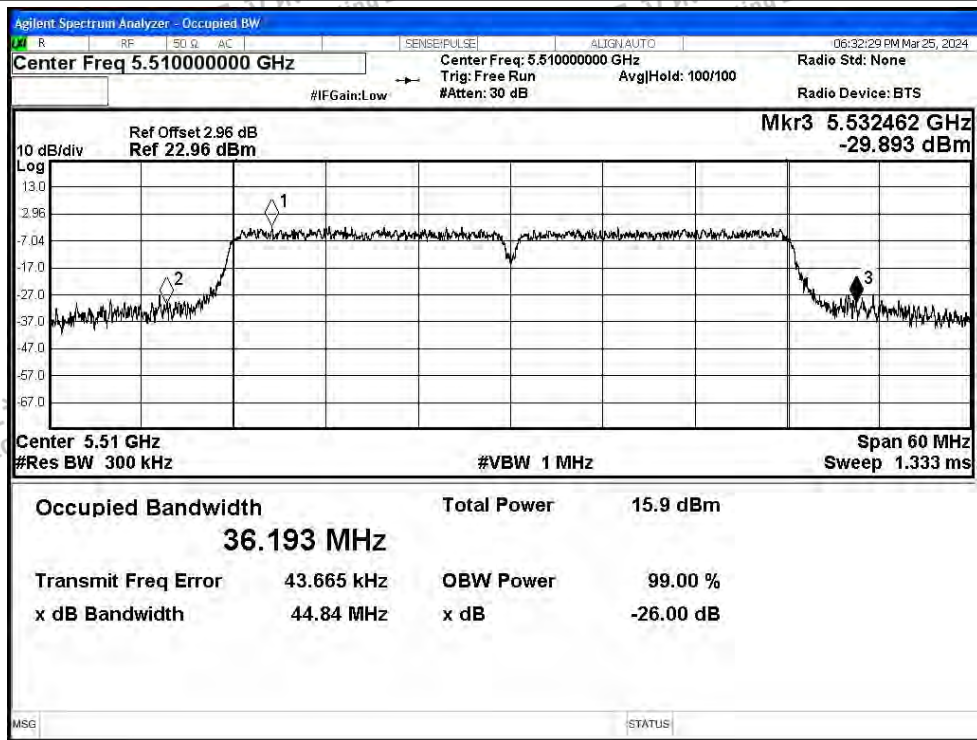


-26dB Bandwidth NVNT n20 5700MHz Ant2

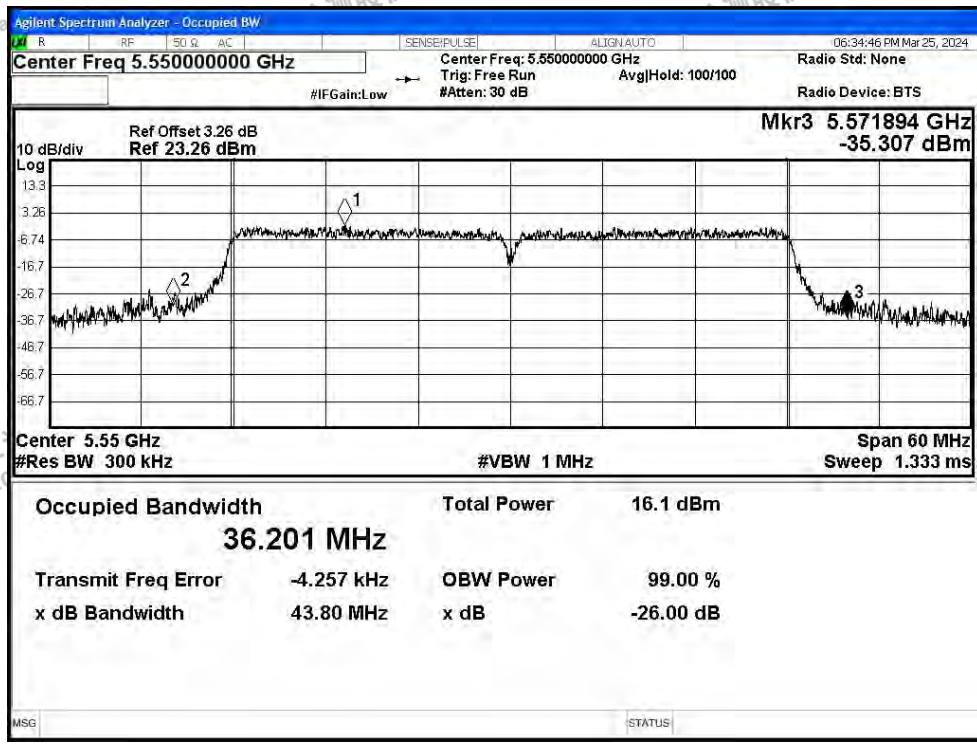




-26dB Bandwidth NVNT n40 5510MHz Ant2



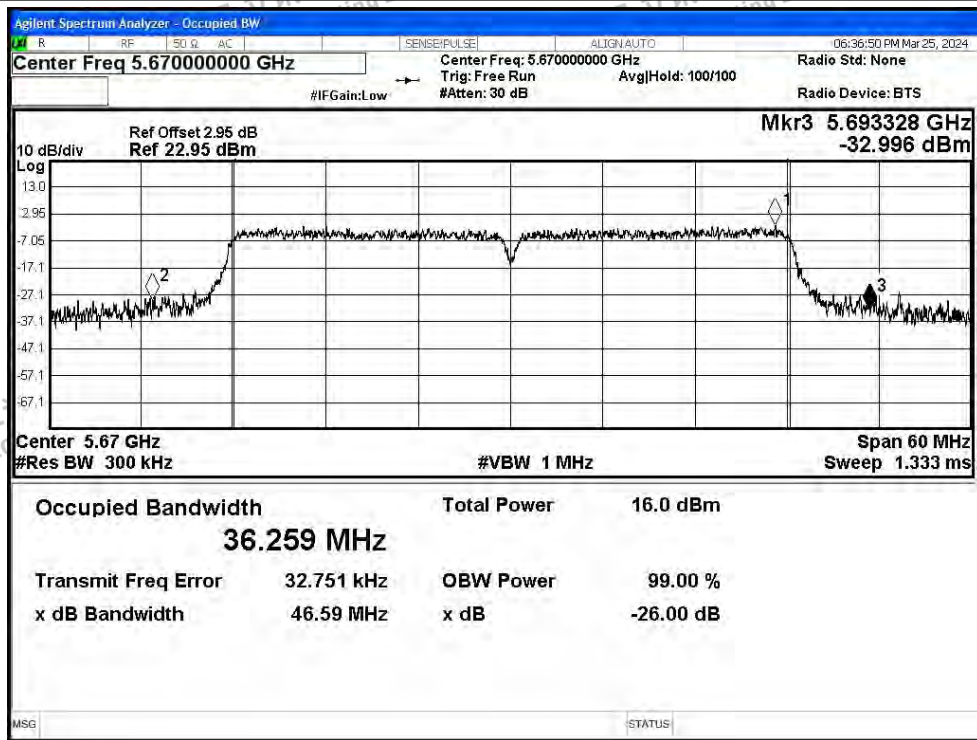
-26dB Bandwidth NVNT n40 5550MHz Ant2



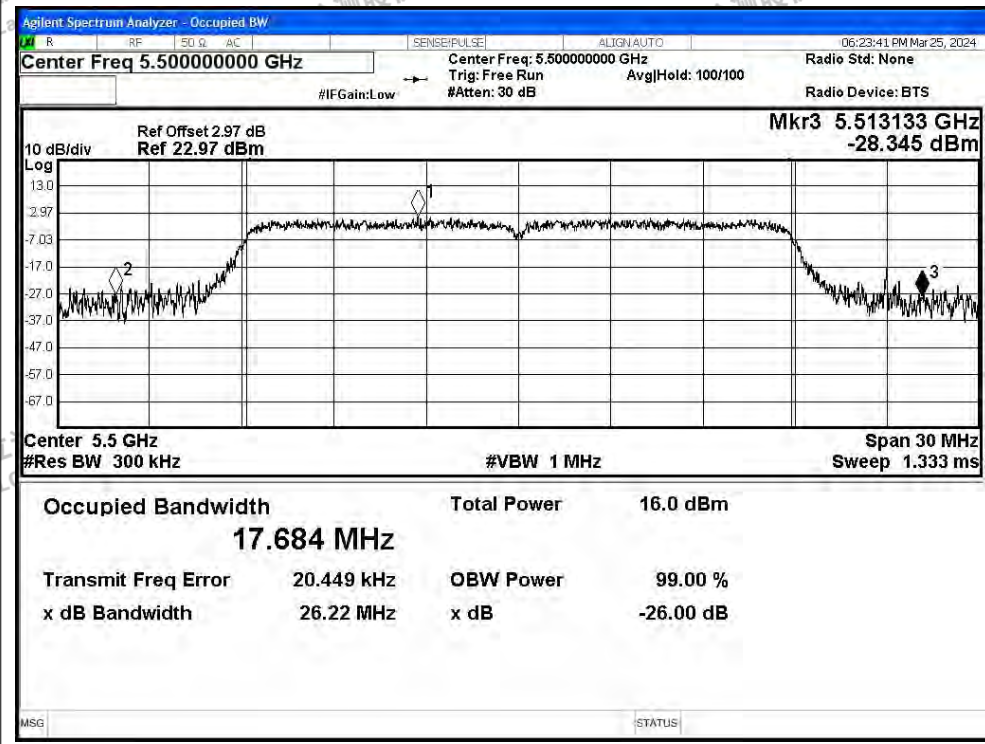




-26dB Bandwidth NVNT n40 5670MHz Ant2

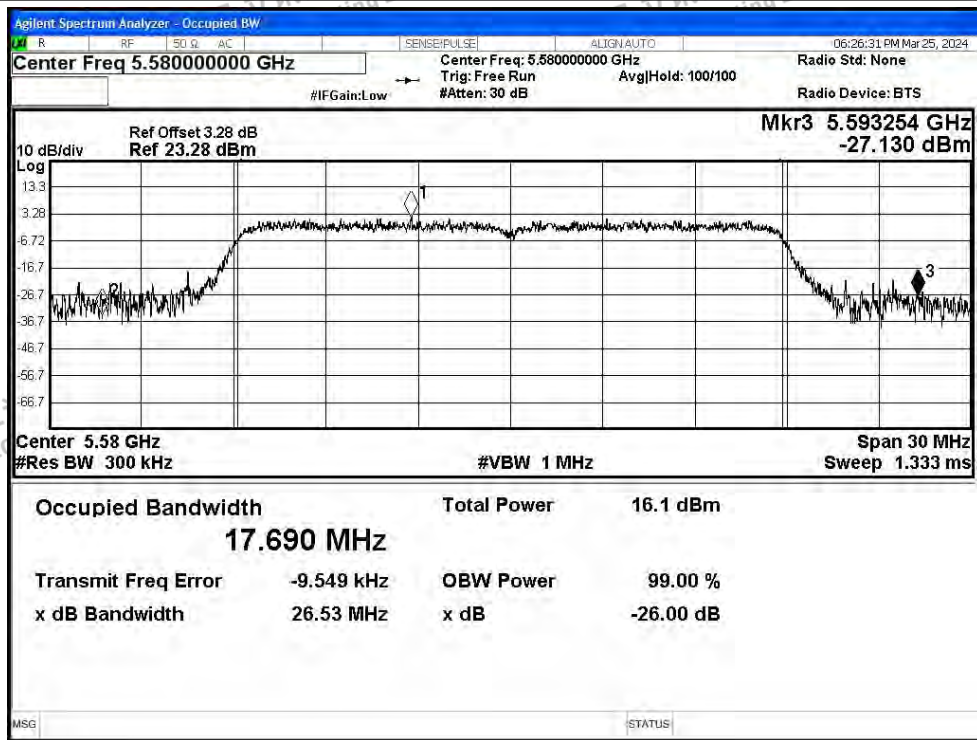


-26dB Bandwidth NVNT ac20 5500MHz Ant2

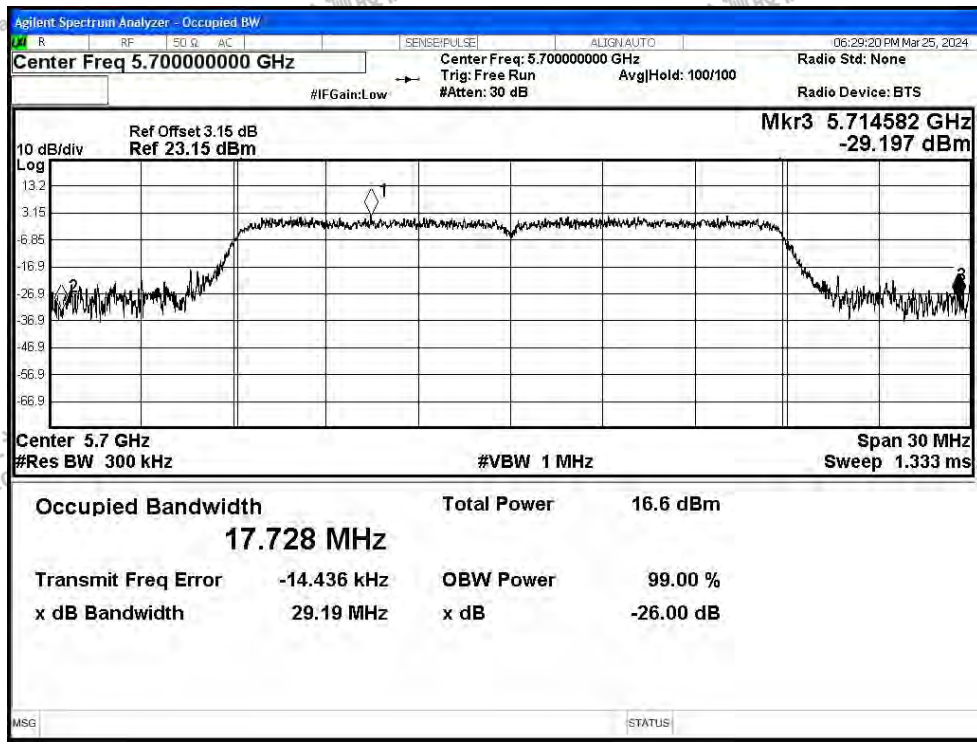




-26dB Bandwidth NVNT ac20 5580MHz Ant2

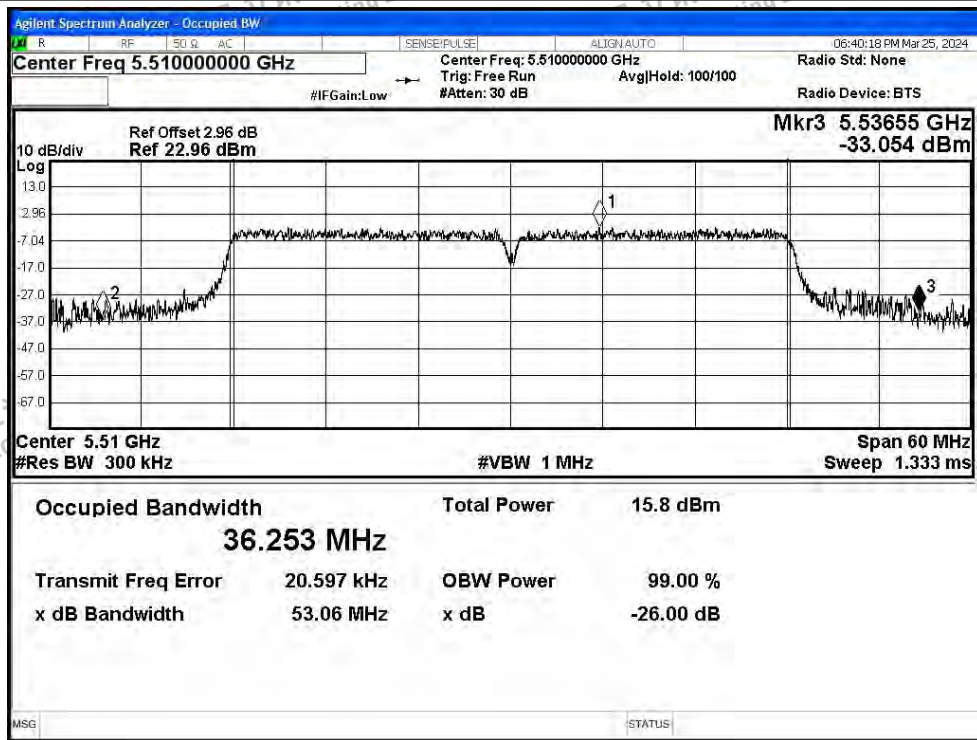


-26dB Bandwidth NVNT ac20 5700MHz Ant2

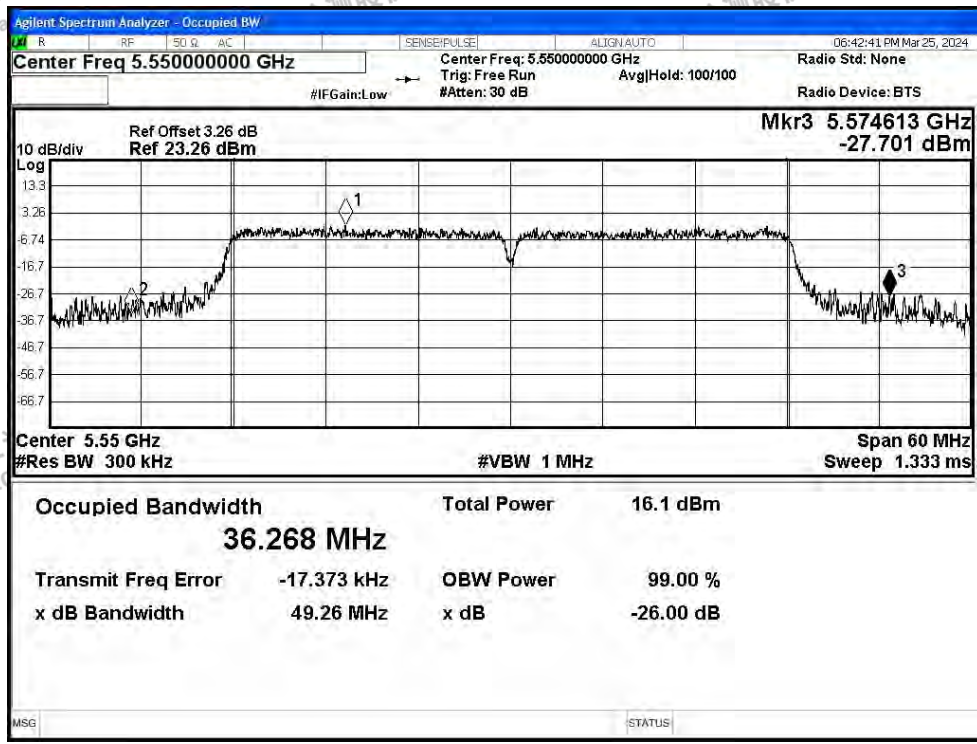




-26dB Bandwidth NVNT ac40 5510MHz Ant2

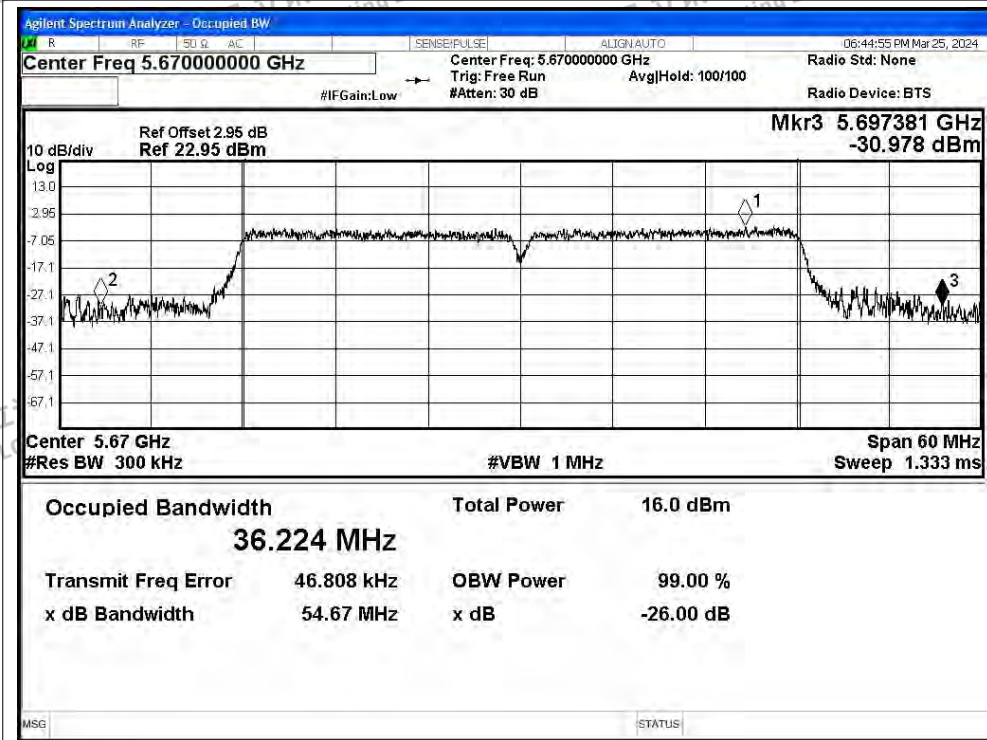


-26dB Bandwidth NVNT ac40 5550MHz Ant2

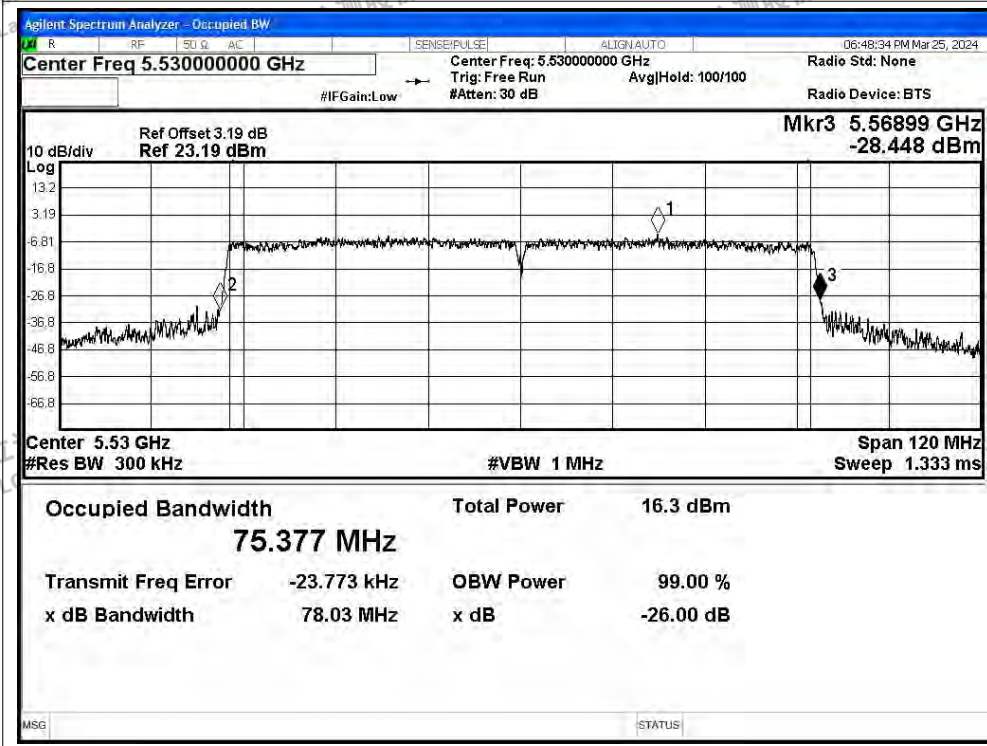




-26dB Bandwidth NVNT ac40 5670MHz Ant2

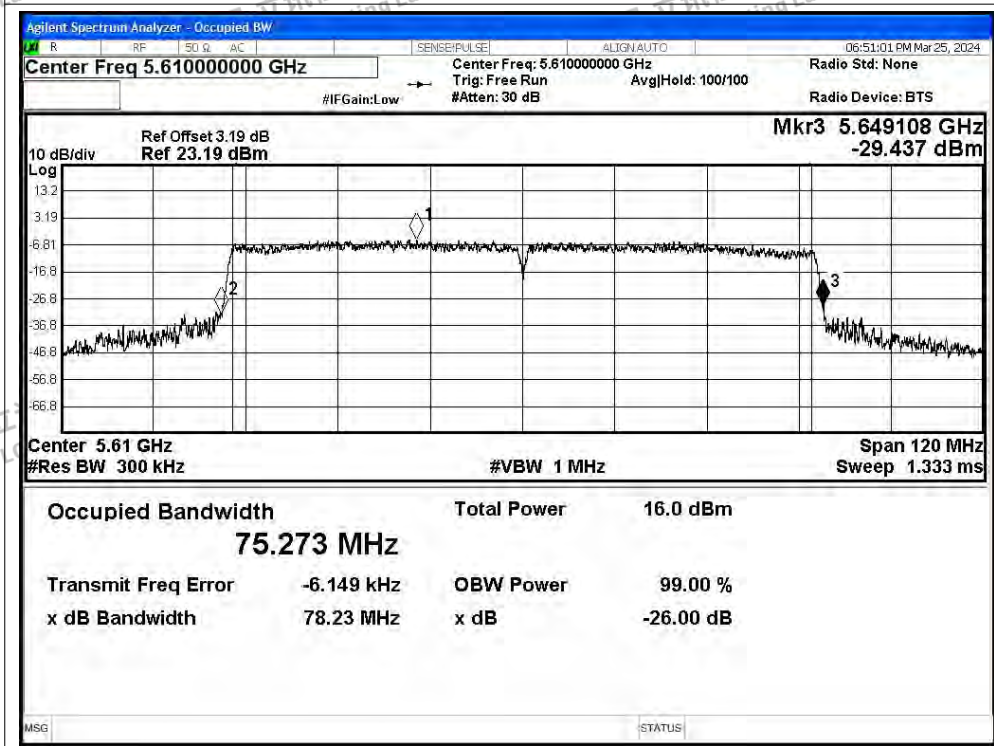


-26dB Bandwidth NVNT ac80 5530MHz Ant2





-26dB Bandwidth NVNT ac80 5610MHz Ant2





### F.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5500            | Ant1    | 12.35                 | 0.6              | 12.95             | 24          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 12.75                 | 0.21             | 12.96             | 24          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 12.55                 | 0.57             | 13.12             | 24          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 11.28                 | 1.04             | 12.32             | 24          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 11.57                 | 0.66             | 12.23             | 24          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 11.83                 | 0.7              | 12.53             | 24          | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 10.17                 | 0.97             | 11.14             | 24          | Pass    |
| NVNT      | n40  | 5550            | Ant1    | 10.48                 | 1.24             | 11.72             | 24          | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 10.26                 | 0.97             | 11.23             | 24          | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 11.08                 | 0.66             | 11.74             | 24          | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 11.61                 | 0.69             | 12.3              | 24          | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 11.84                 | 0.69             | 12.53             | 24          | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | 10.41                 | 1                | 11.41             | 24          | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | 10.39                 | 0.93             | 11.32             | 24          | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | 10.8                  | 1.27             | 12.07             | 24          | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | 9.16                  | 2.03             | 11.19             | 24          | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | 8.97                  | 1.86             | 10.83             | 24          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5500            | Ant2    | 11.34                 | 0.57             | 11.91             | 24          | Pass    |
| NVNT      | a    | 5580            | Ant2    | 11.23                 | 0.72             | 11.95             | 24          | Pass    |
| NVNT      | a    | 5700            | Ant2    | 11.58                 | 0.63             | 12.21             | 24          | Pass    |
| NVNT      | n20  | 5500            | Ant2    | 10.37                 | 0.16             | 10.53             | 24          | Pass    |
| NVNT      | n20  | 5580            | Ant2    | 10.52                 | 0.16             | 10.68             | 24          | Pass    |
| NVNT      | n20  | 5700            | Ant2    | 10.68                 | 0.7              | 11.38             | 24          | Pass    |
| NVNT      | n40  | 5510            | Ant2    | 9.27                  | 0.25             | 9.52              | 24          | Pass    |
| NVNT      | n40  | 5550            | Ant2    | 9.77                  | 0.97             | 10.74             | 24          | Pass    |
| NVNT      | n40  | 5670            | Ant2    | 9.54                  | 0.97             | 10.51             | 24          | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | 10.04                 | 0.69             | 10.73             | 24          | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | 10.02                 | 0.69             | 10.71             | 24          | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 10.69                 | 0.65             | 11.34             | 24          | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | 9.52                  | 0.96             | 10.48             | 24          | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | 9.89                  | 1                | 10.89             | 24          | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | 9.67                  | 0.88             | 10.55             | 24          | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | 8.47                  | 1.66             | 10.13             | 24          | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | 8.7                   | 2.14             | 10.84             | 24          | Pass    |



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  
 Scan code to check authenticity



MIMO

| Condition | Mode | Frequency (MHz) | Total Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant1              | Ant2  | Ant1+Ant2 |             |         |
| NVNT      | n20  | 5500            | 12.32             | 10.53 | 14.53     | 23.88       | Pass    |
| NVNT      | n20  | 5580            | 12.23             | 10.68 | 14.53     | 23.88       | Pass    |
| NVNT      | n20  | 5700            | 12.53             | 11.38 | 15.00     | 23.88       | Pass    |
| NVNT      | n40  | 5510            | 11.14             | 9.52  | 13.42     | 23.88       | Pass    |
| NVNT      | n40  | 5550            | 11.72             | 10.74 | 14.27     | 23.88       | Pass    |
| NVNT      | n40  | 5670            | 11.23             | 10.51 | 13.90     | 23.88       | Pass    |
| NVNT      | ac20 | 5500            | 11.74             | 10.73 | 14.27     | 23.88       | Pass    |
| NVNT      | ac20 | 5580            | 12.3              | 10.71 | 14.59     | 23.88       | Pass    |
| NVNT      | ac20 | 5700            | 12.53             | 11.34 | 14.99     | 23.88       | Pass    |
| NVNT      | ac40 | 5510            | 11.41             | 10.48 | 13.98     | 23.88       | Pass    |
| NVNT      | ac40 | 5550            | 11.32             | 10.89 | 14.12     | 23.88       | Pass    |
| NVNT      | ac40 | 5670            | 12.07             | 10.55 | 14.39     | 23.88       | Pass    |
| NVNT      | ac80 | 5530            | 11.19             | 10.13 | 13.70     | 23.88       | Pass    |
| NVNT      | ac80 | 5610            | 10.83             | 10.84 | 13.85     | 23.88       | Pass    |



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  
 Scan code to check authenticity



### F.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT      | a    | 5500            | Ant1    | 1.94                    | 0.6              | 2.54                | 11              | Pass    |
| NVNT      | a    | 5580            | Ant1    | 2.68                    | 0.21             | 2.89                | 11              | Pass    |
| NVNT      | a    | 5700            | Ant1    | 2.19                    | 0.57             | 2.76                | 11              | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 0.73                    | 1.04             | 1.77                | 11              | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 0.87                    | 0.66             | 1.53                | 11              | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 0.6                     | 0.7              | 1.3                 | 11              | Pass    |
| NVNT      | n40  | 5510            | Ant1    | -3.56                   | 0.97             | -2.59               | 11              | Pass    |
| NVNT      | n40  | 5550            | Ant1    | -3.18                   | 1.24             | -1.94               | 11              | Pass    |
| NVNT      | n40  | 5670            | Ant1    | -2.43                   | 0.97             | -1.46               | 11              | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 0.51                    | 0.66             | 1.17                | 11              | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 0.78                    | 0.69             | 1.47                | 11              | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 1.16                    | 0.69             | 1.85                | 11              | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | -2.64                   | 1                | -1.64               | 11              | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | -3.43                   | 0.93             | -2.5                | 11              | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | -3.01                   | 1.27             | -1.74               | 11              | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | -7.87                   | 2.03             | -5.84               | 11              | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | -7.96                   | 1.86             | -6.1                | 11              | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT      | a    | 5500            | Ant2    | 0.84                    | 0.57             | 1.41                | 11              | Pass    |
| NVNT      | a    | 5580            | Ant2    | 0.63                    | 0.72             | 1.35                | 11              | Pass    |
| NVNT      | a    | 5700            | Ant2    | 1.05                    | 0.63             | 1.68                | 11              | Pass    |
| NVNT      | n20  | 5500            | Ant2    | -0.18                   | 0.16             | -0.02               | 11              | Pass    |
| NVNT      | n20  | 5580            | Ant2    | -0.43                   | 0.16             | -0.27               | 11              | Pass    |
| NVNT      | n20  | 5700            | Ant2    | -0.1                    | 0.7              | 0.6                 | 11              | Pass    |
| NVNT      | n40  | 5510            | Ant2    | -4.32                   | 0.25             | -4.07               | 11              | Pass    |
| NVNT      | n40  | 5550            | Ant2    | -3.99                   | 0.97             | -3.02               | 11              | Pass    |
| NVNT      | n40  | 5670            | Ant2    | -3.66                   | 0.97             | -2.69               | 11              | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | -0.6                    | 0.69             | 0.09                | 11              | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | -0.54                   | 0.69             | 0.15                | 11              | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 0.22                    | 0.65             | 0.87                | 11              | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | -4.06                   | 0.96             | -3.1                | 11              | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | -3.86                   | 1                | -2.86               | 11              | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | -3.79                   | 0.88             | -2.91               | 11              | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | -7.3                    | 1.66             | -5.64               | 11              | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | -7                      | 2.14             | -4.86               | 11              | Pass    |



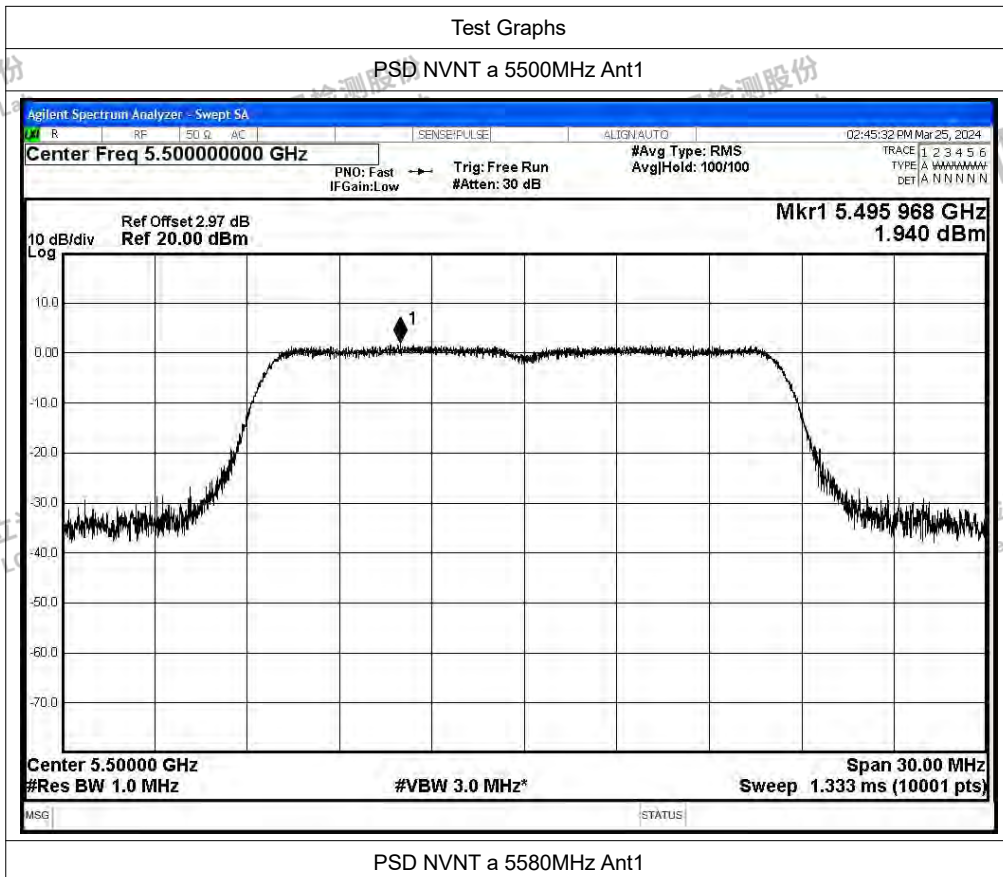
Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity





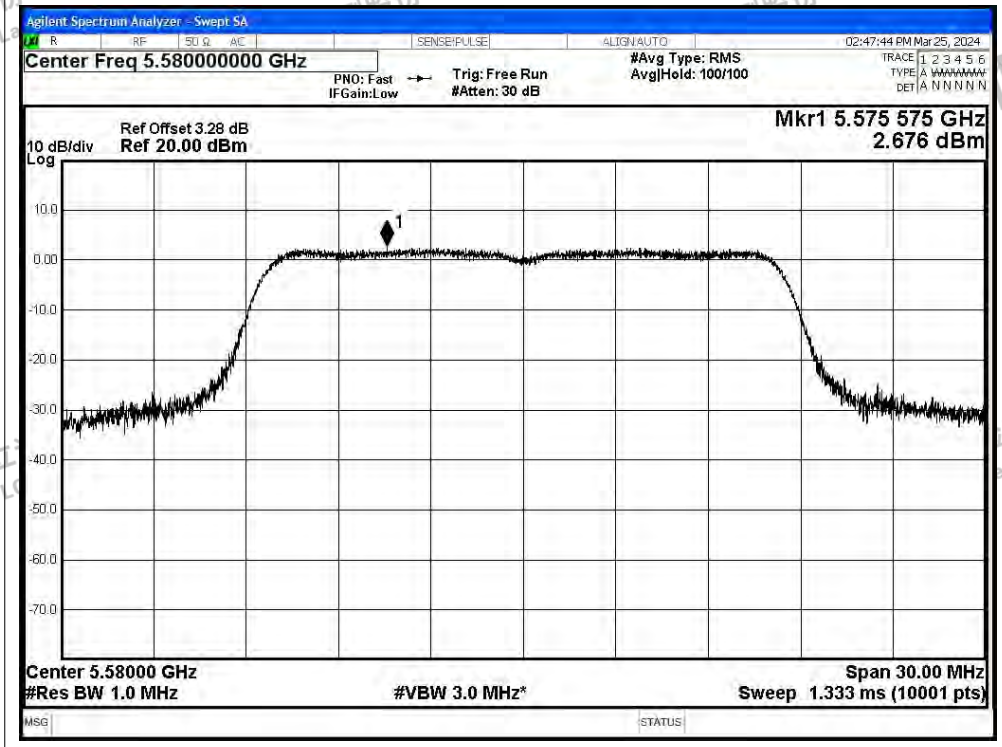
MIMO

| Condition | Mode | Frequency (MHz) | Total PSD (dBm/MHz) |       |           | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------------------|-------|-----------|-----------------|---------|
|           |      |                 | Ant1                | Ant2  | Ant1+Ant2 |                 |         |
| NVNT      | n20  | 5500            | 1.77                | -0.02 | 3.98      | 10.38           | Pass    |
| NVNT      | n20  | 5580            | 1.53                | -0.27 | 3.73      | 10.38           | Pass    |
| NVNT      | n20  | 5700            | 1.3                 | 0.6   | 3.97      | 10.38           | Pass    |
| NVNT      | n40  | 5510            | -2.59               | -4.07 | -0.26     | 10.38           | Pass    |
| NVNT      | n40  | 5550            | -1.94               | -3.02 | 0.56      | 10.38           | Pass    |
| NVNT      | n40  | 5670            | -1.46               | -2.69 | 0.98      | 10.38           | Pass    |
| NVNT      | ac20 | 5500            | 1.17                | 0.09  | 3.67      | 10.38           | Pass    |
| NVNT      | ac20 | 5580            | 1.47                | 0.15  | 3.87      | 10.38           | Pass    |
| NVNT      | ac20 | 5700            | 1.85                | 0.87  | 4.40      | 10.38           | Pass    |
| NVNT      | ac40 | 5510            | -1.64               | -3.1  | 0.70      | 10.38           | Pass    |
| NVNT      | ac40 | 5550            | -2.5                | -2.86 | 0.33      | 10.38           | Pass    |
| NVNT      | ac40 | 5670            | -1.74               | -2.91 | 0.72      | 10.38           | Pass    |
| NVNT      | ac80 | 5530            | -5.84               | -5.64 | -2.73     | 10.38           | Pass    |
| NVNT      | ac80 | 5610            | -6.1                | -4.86 | -2.43     | 10.38           | Pass    |



PSD NVNT a 5580MHz Ant1

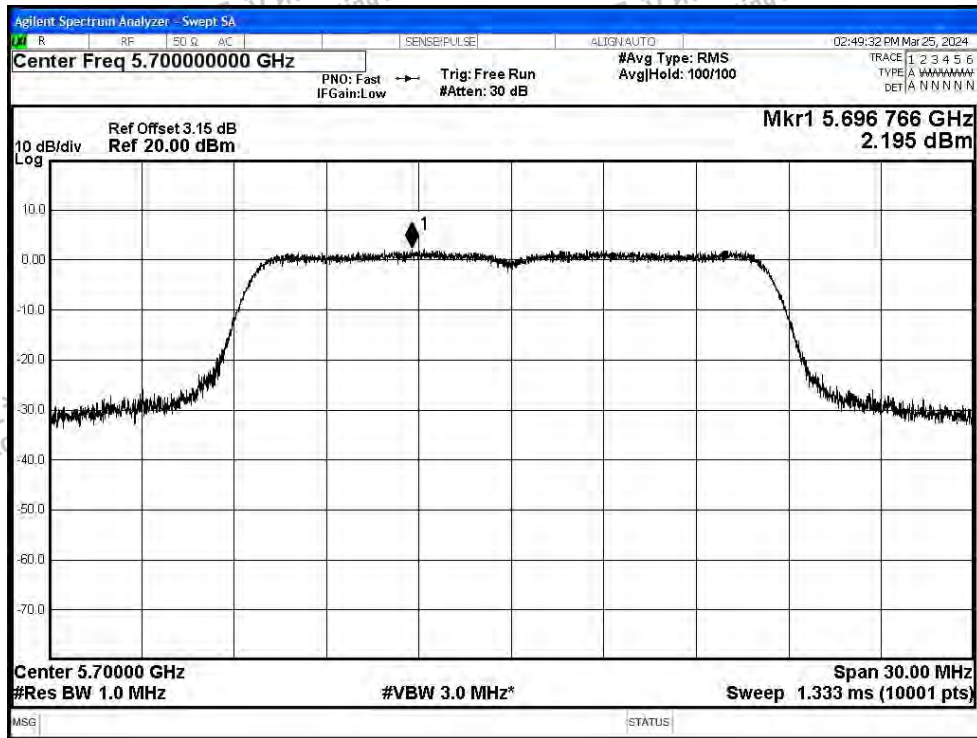




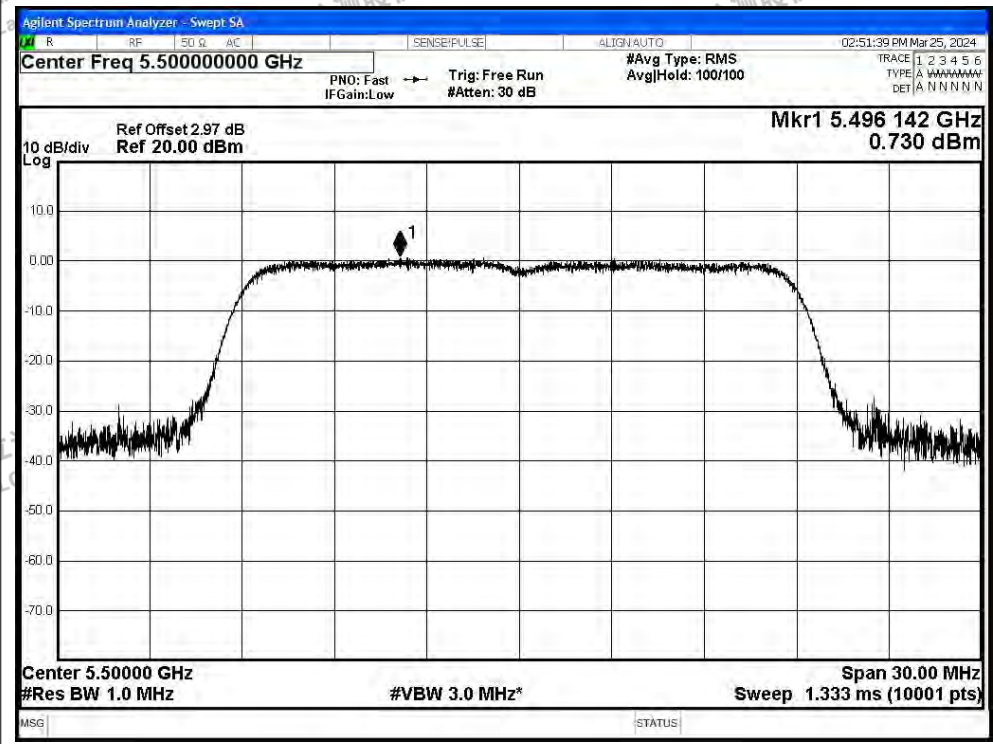
Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity



PSD NVNT a 5700MHz Ant1

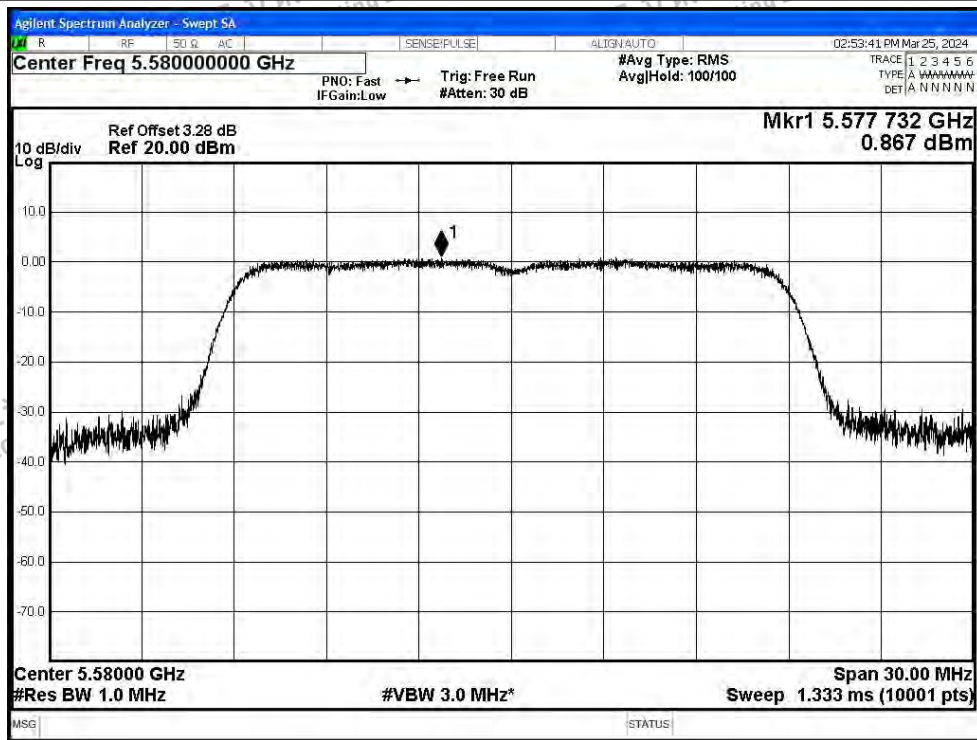


PSD NVNT n20 5500MHz Ant1

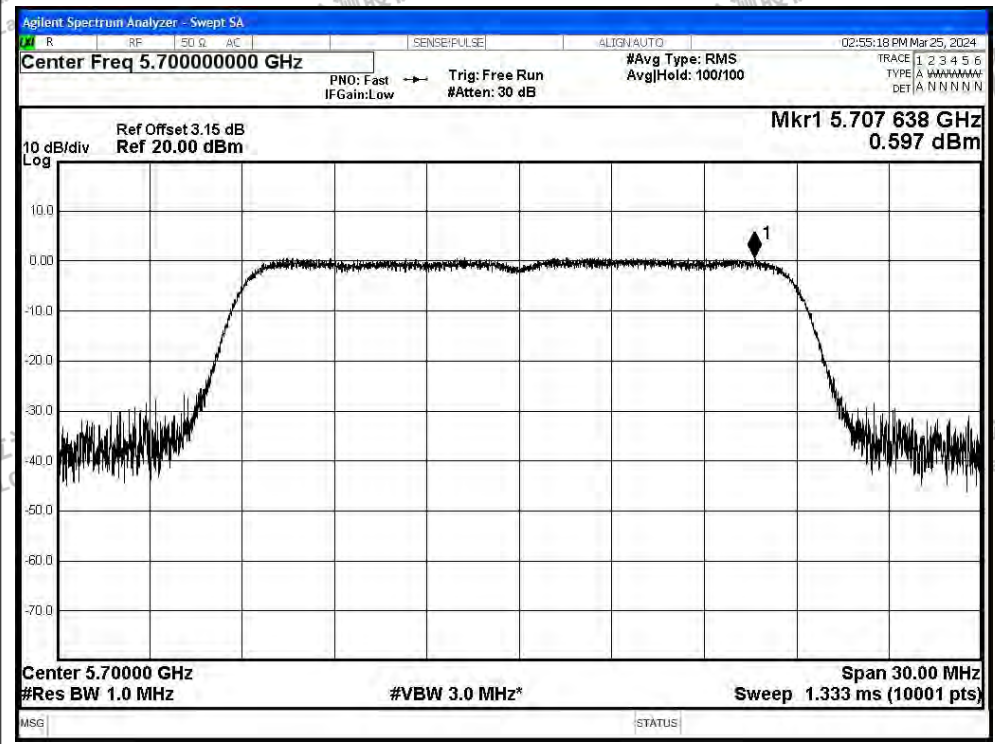




PSD NVNT n20 5580MHz Ant1

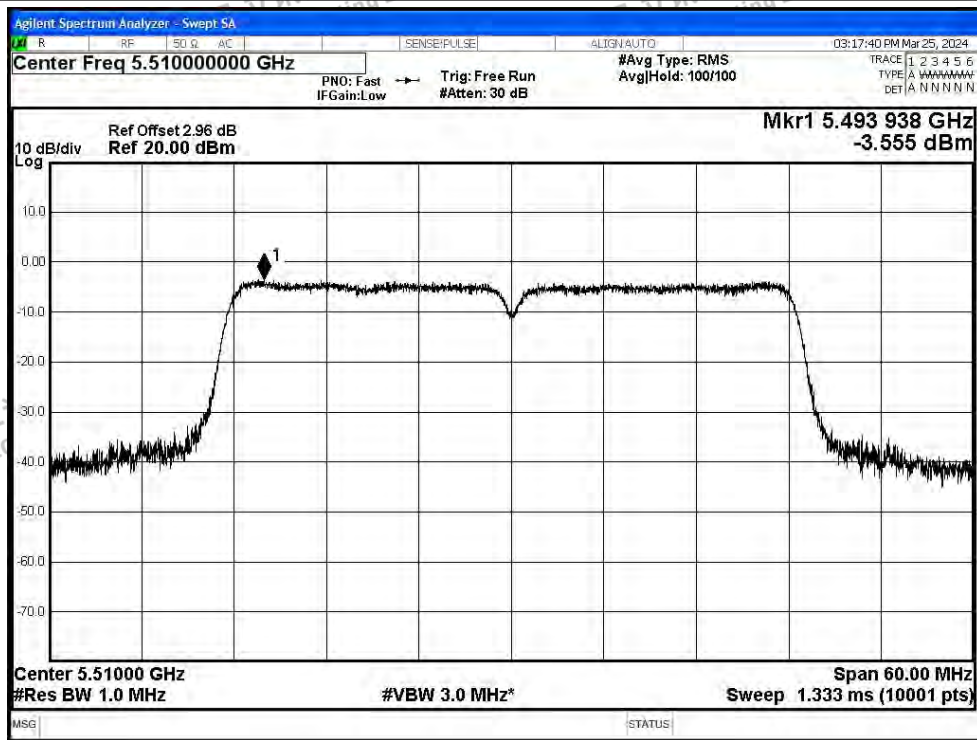


PSD NVNT n20 5700MHz Ant1

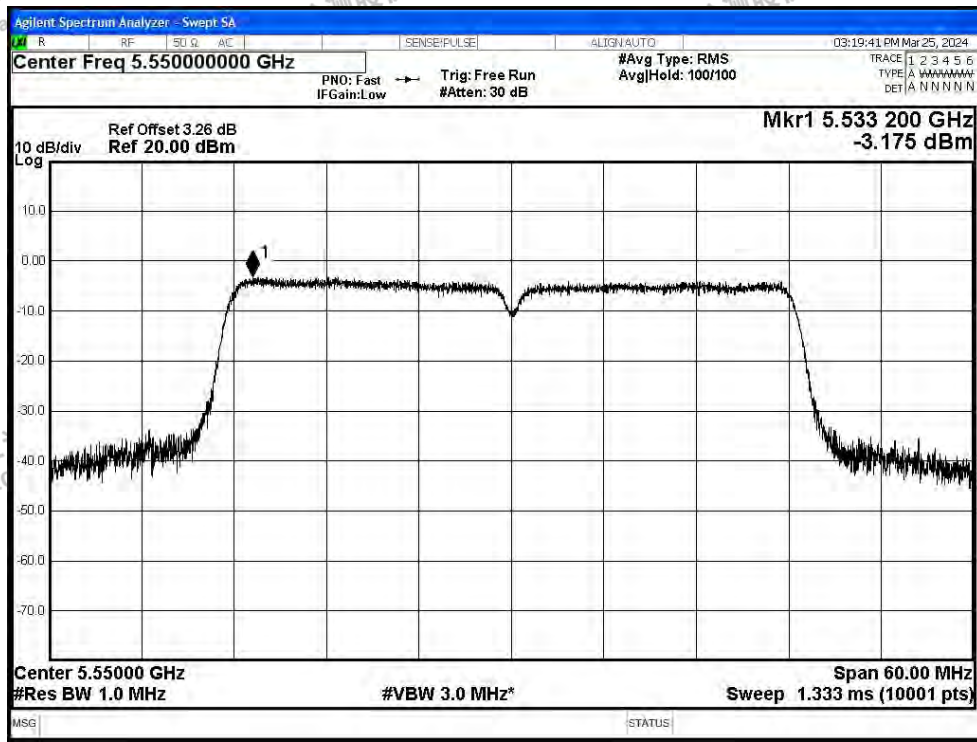




PSD NVNT n40 5510MHz Ant1

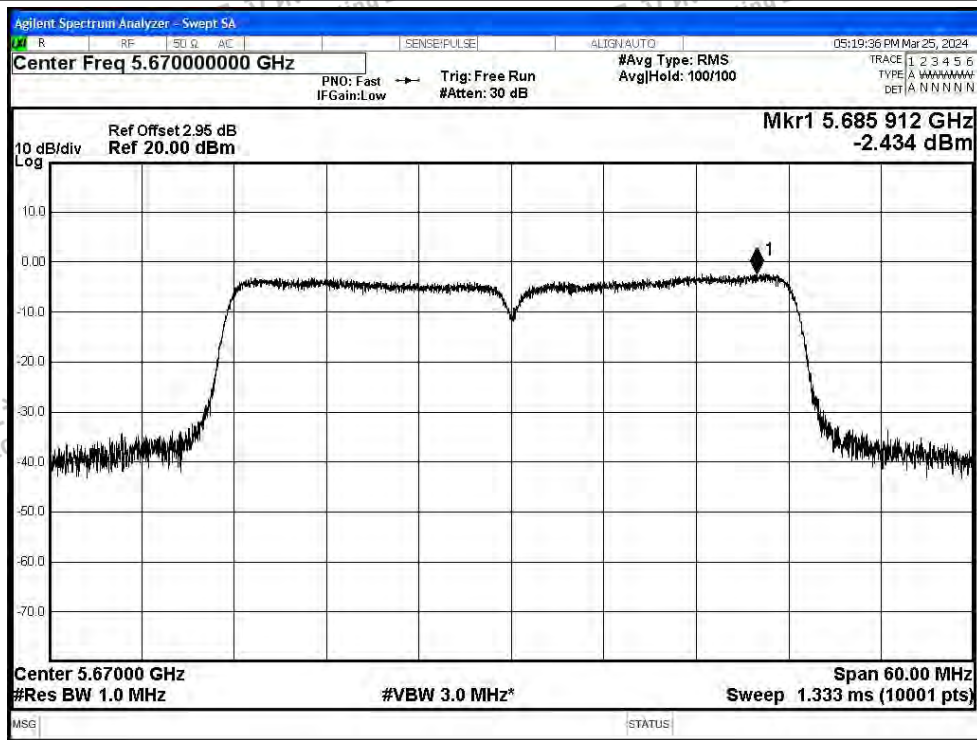


PSD NVNT n40 5550MHz Ant1

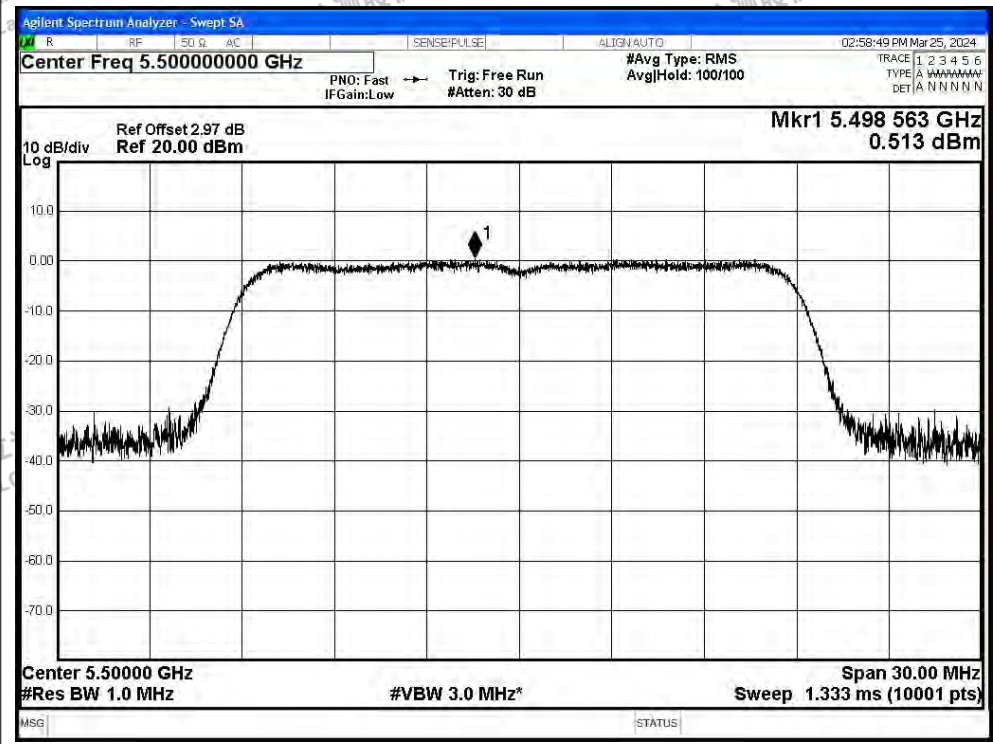




PSD NVNT n40 5670MHz Ant1

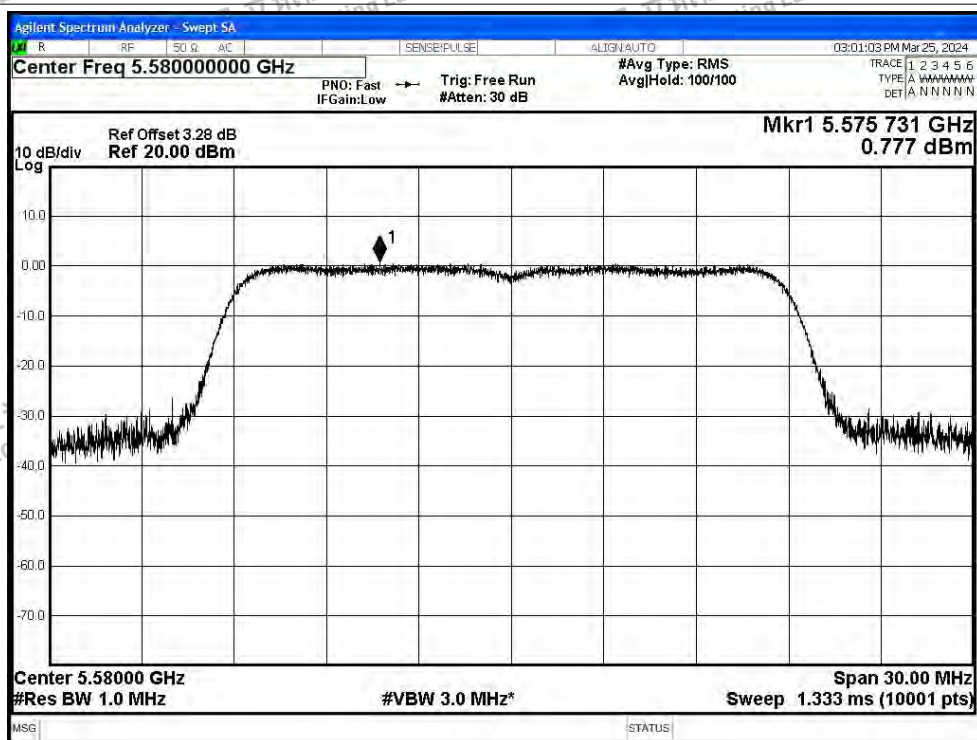


PSD NVNT ac20 5500MHz Ant1

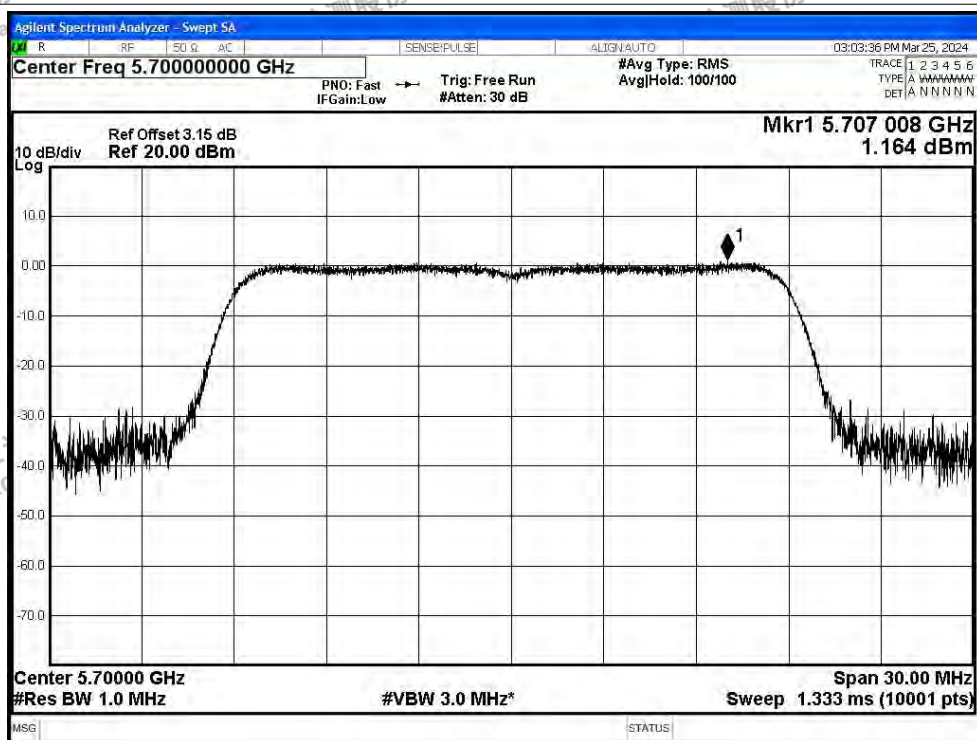




PSD NVNT ac20 5580MHz Ant1

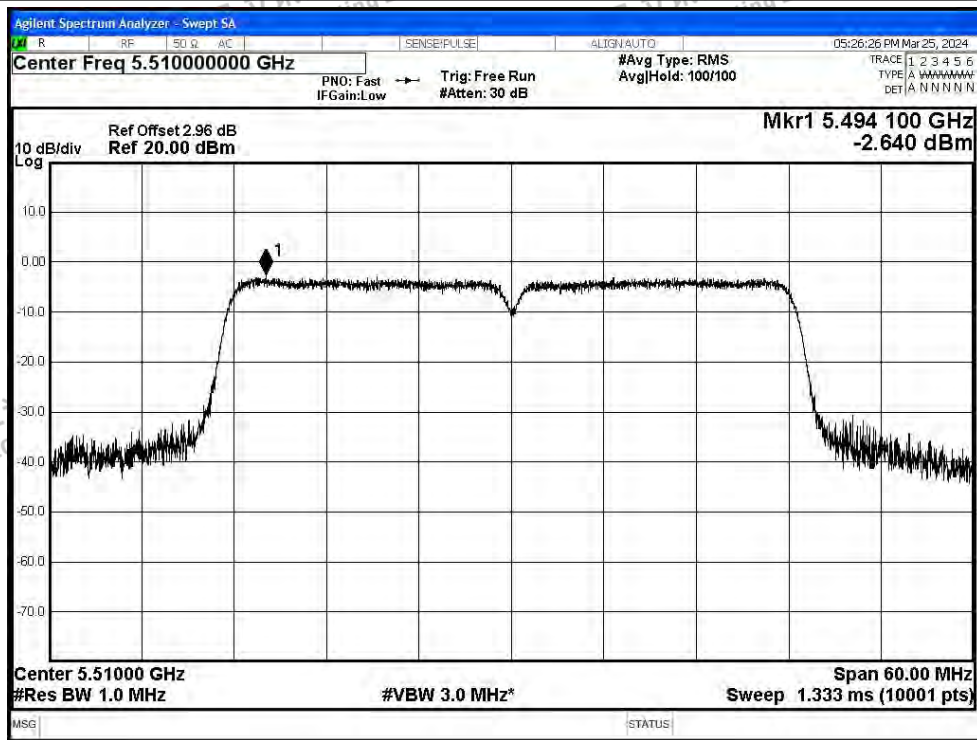


PSD NVNT ac20 5700MHz Ant1

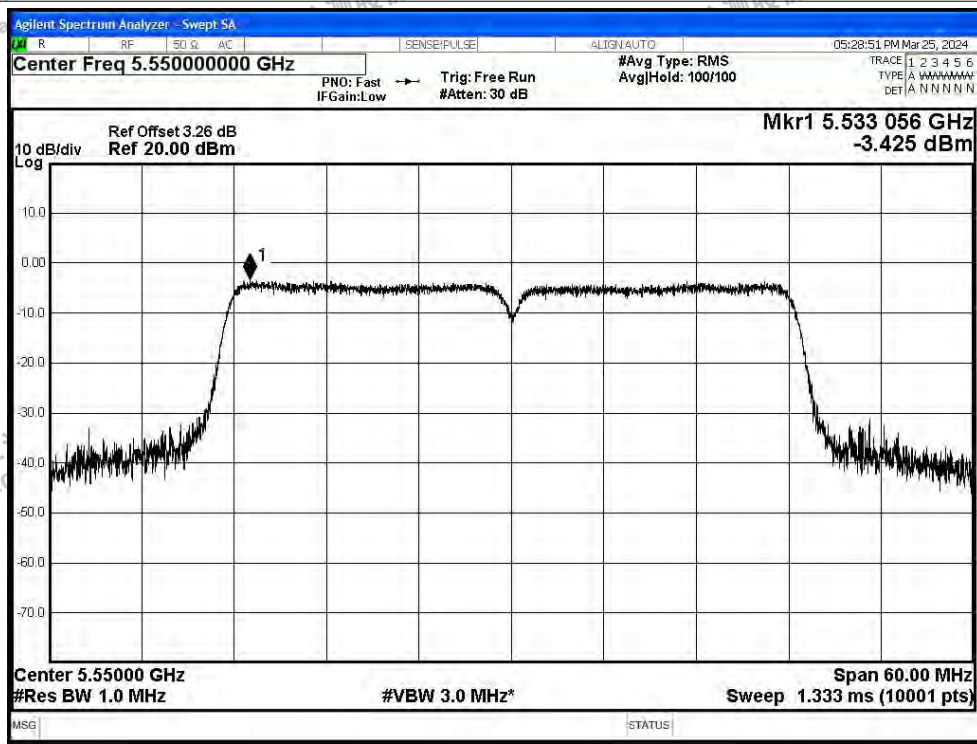




PSD NVNT ac40 5510MHz Ant1



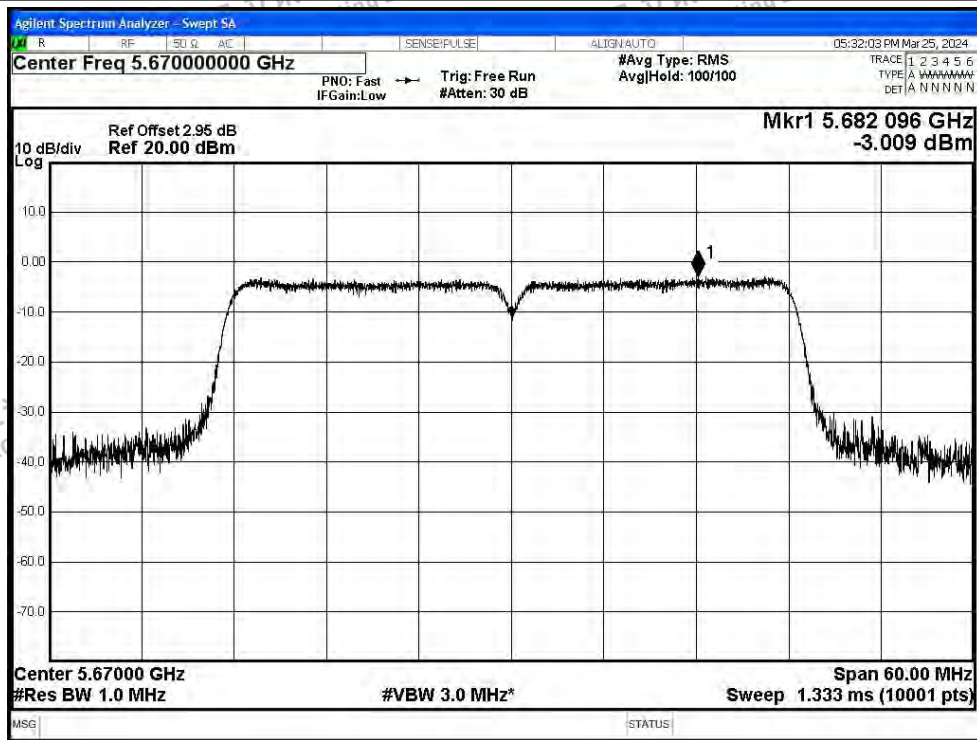
PSD NVNT ac40 5550MHz Ant1



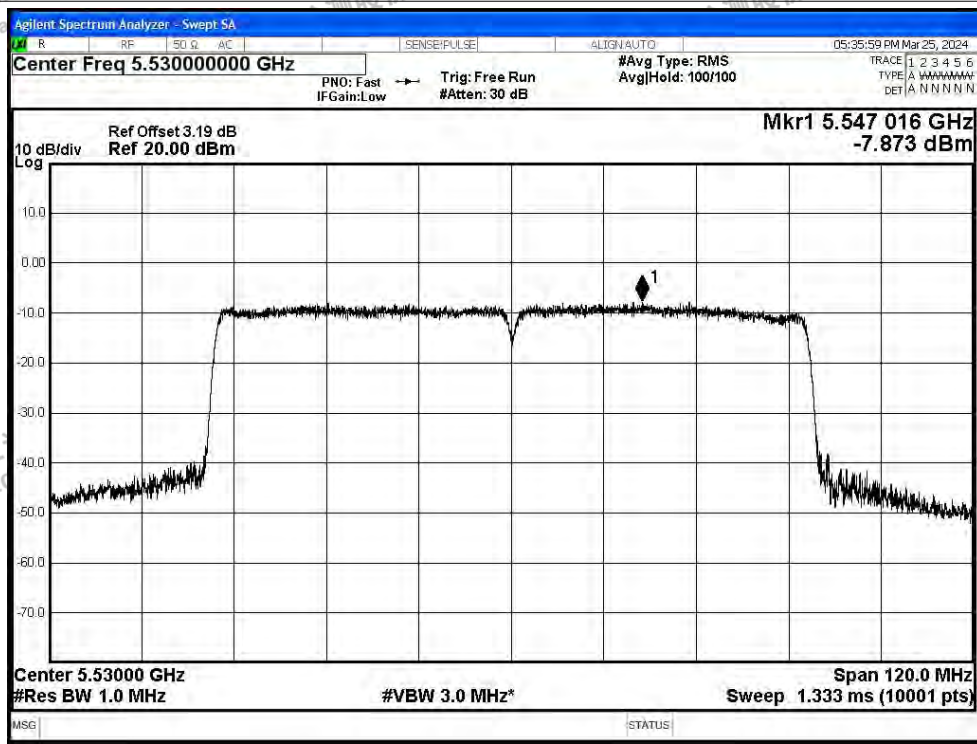




PSD NVNT ac40 5670MHz Ant1

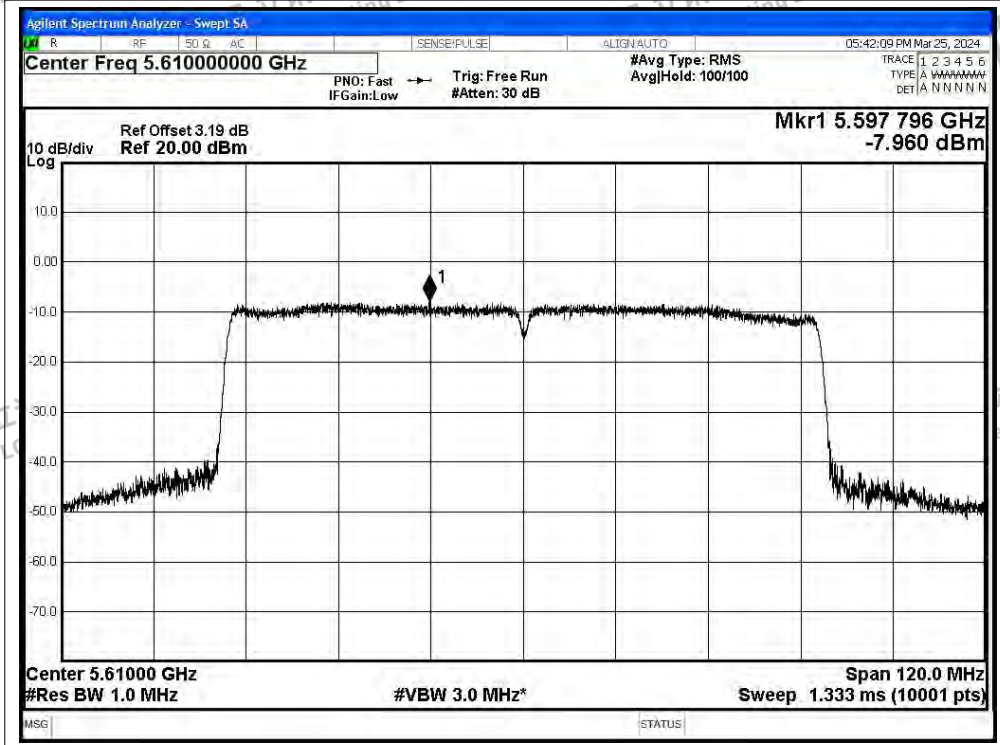


PSD NVNT ac80 5530MHz Ant1





PSD NVNT ac80 5610MHz Ant1

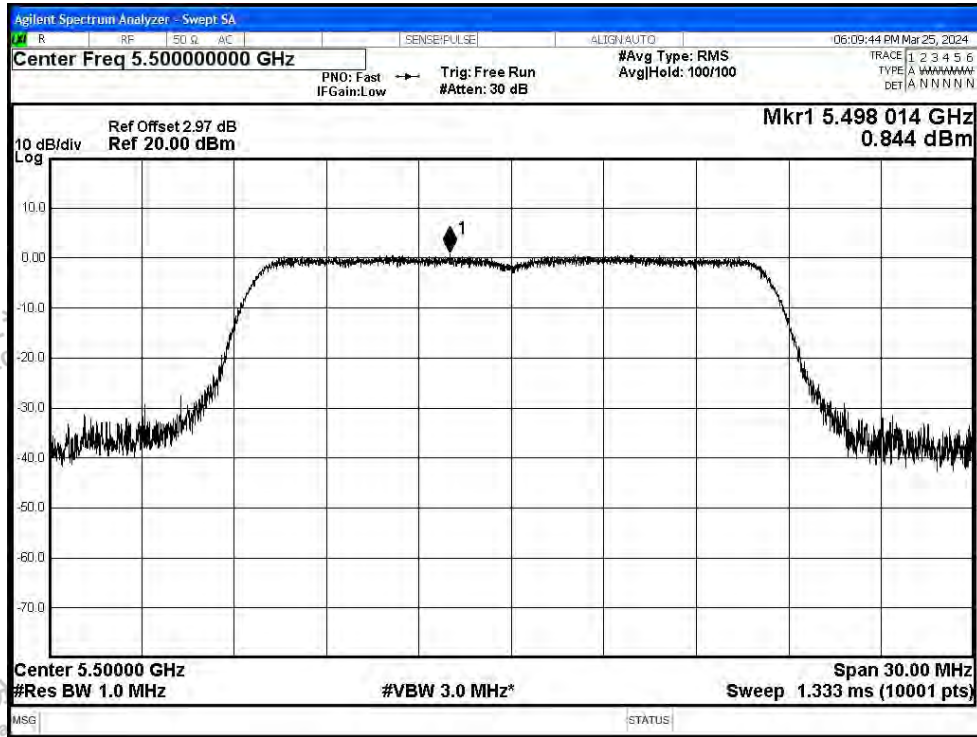


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

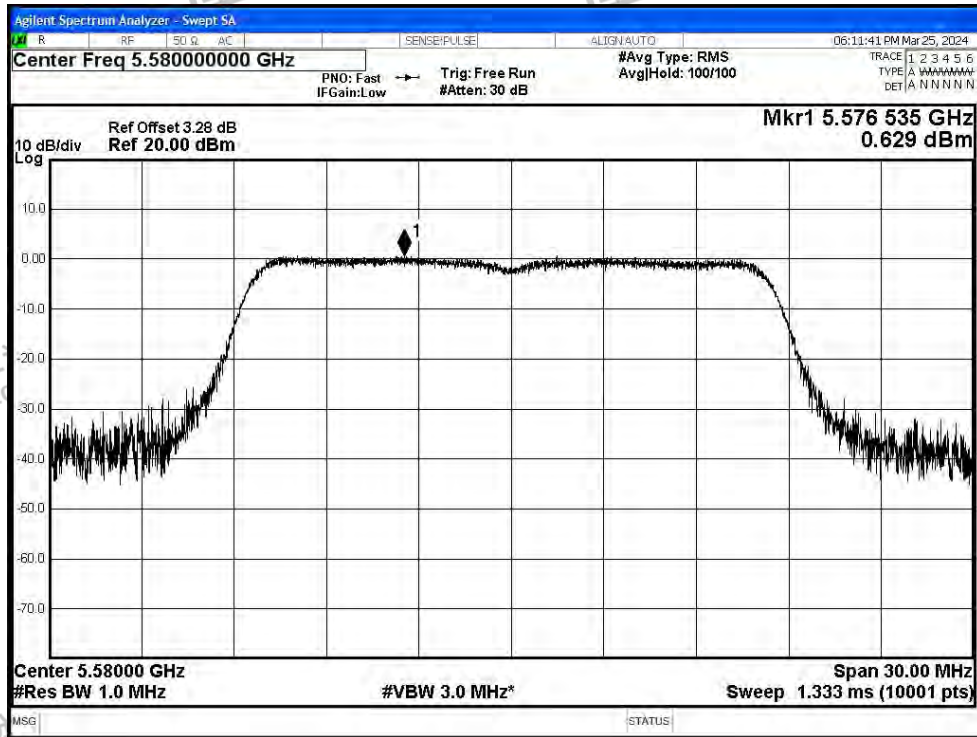


Test Graphs

PSD NVNT a 5500MHz Ant2

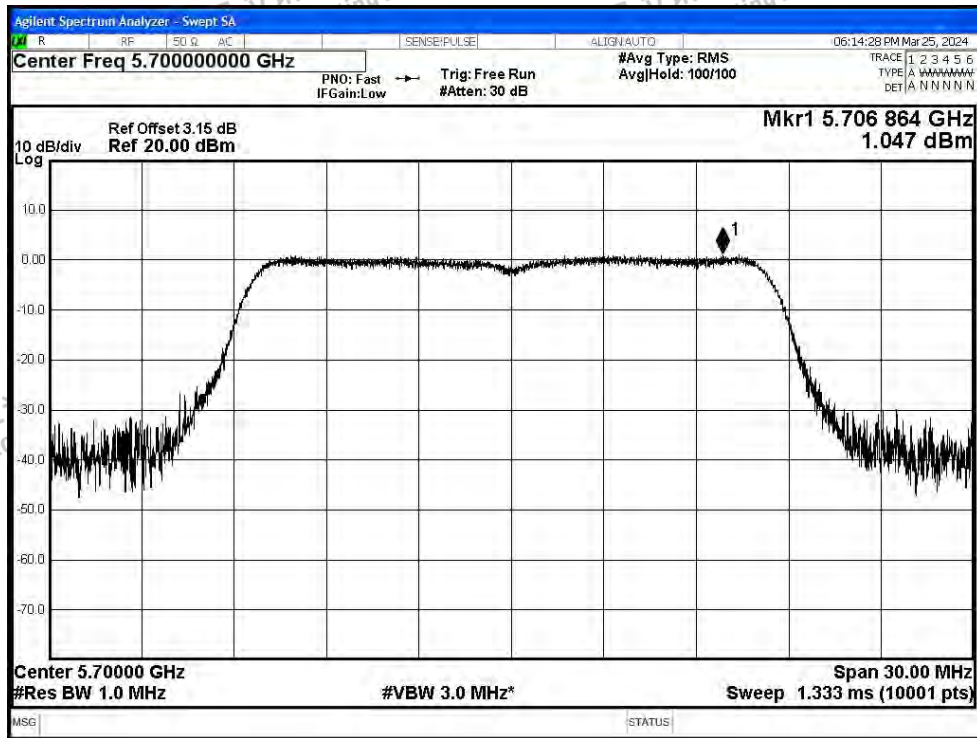


PSD NVNT a 5580MHz Ant2

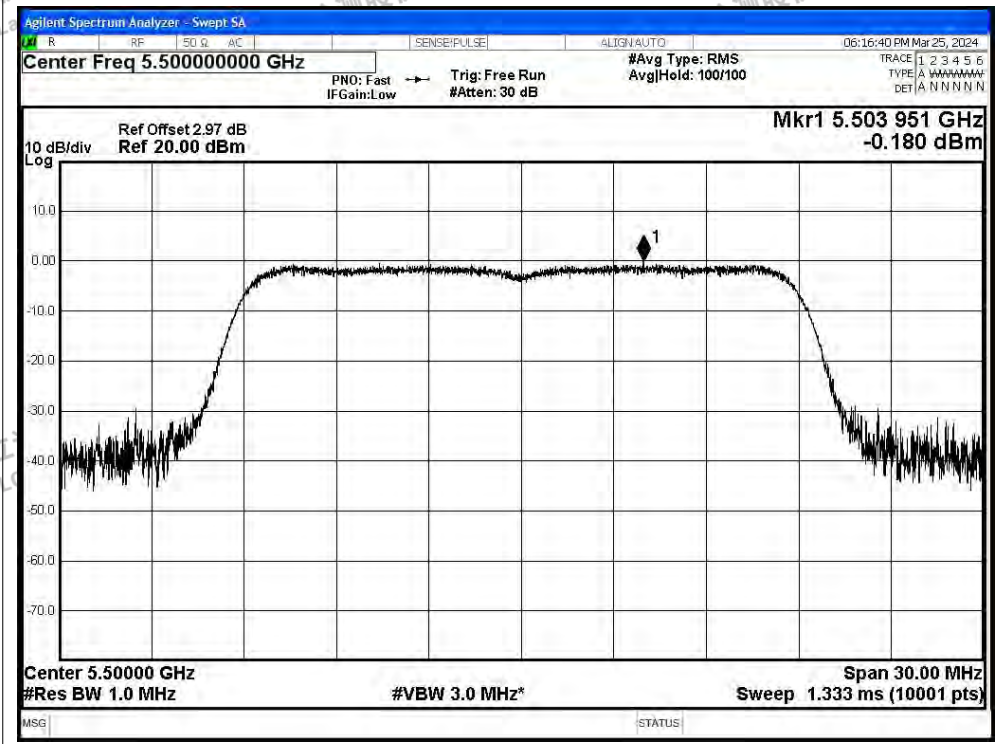




PSD NVNT a 5700MHz Ant2

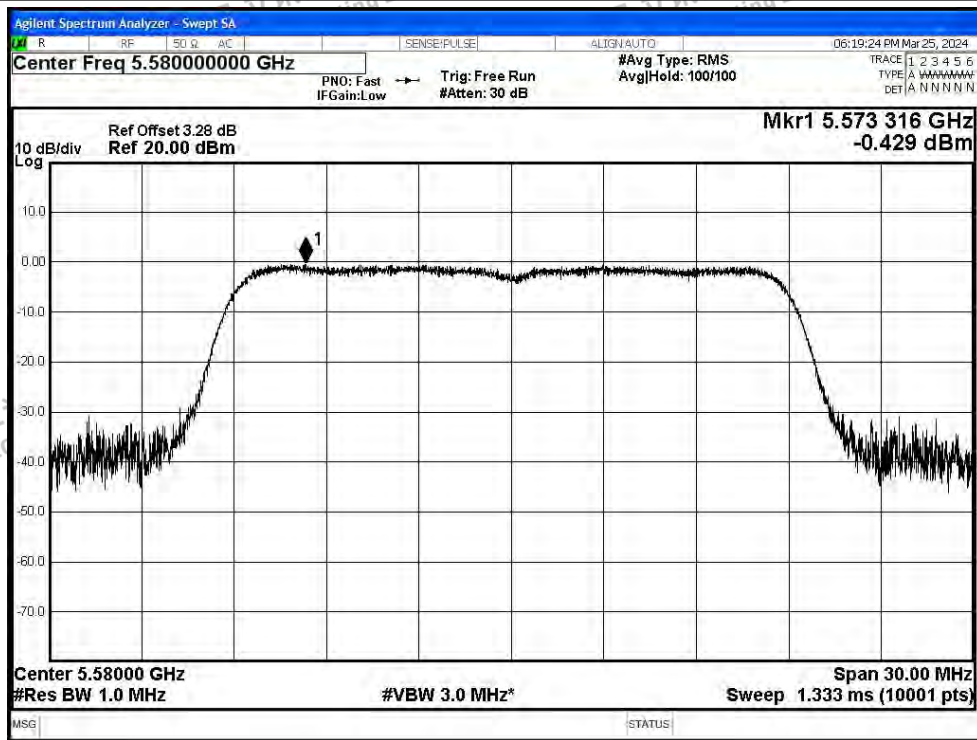


PSD NVNT n20 5500MHz Ant2

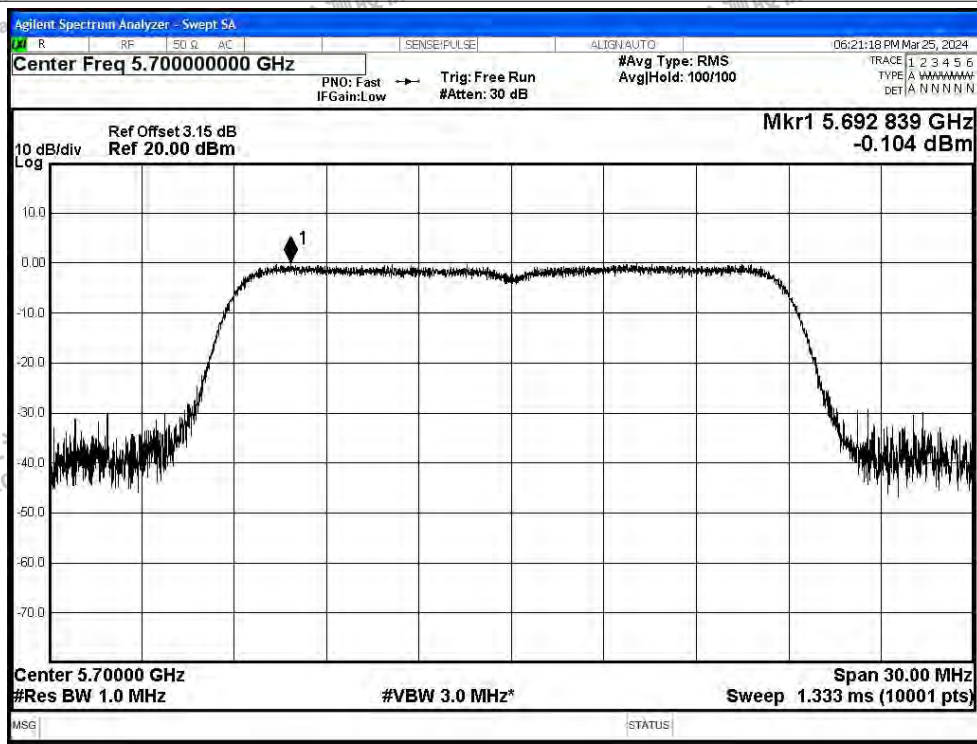




PSD NVNT n20 5580MHz Ant2

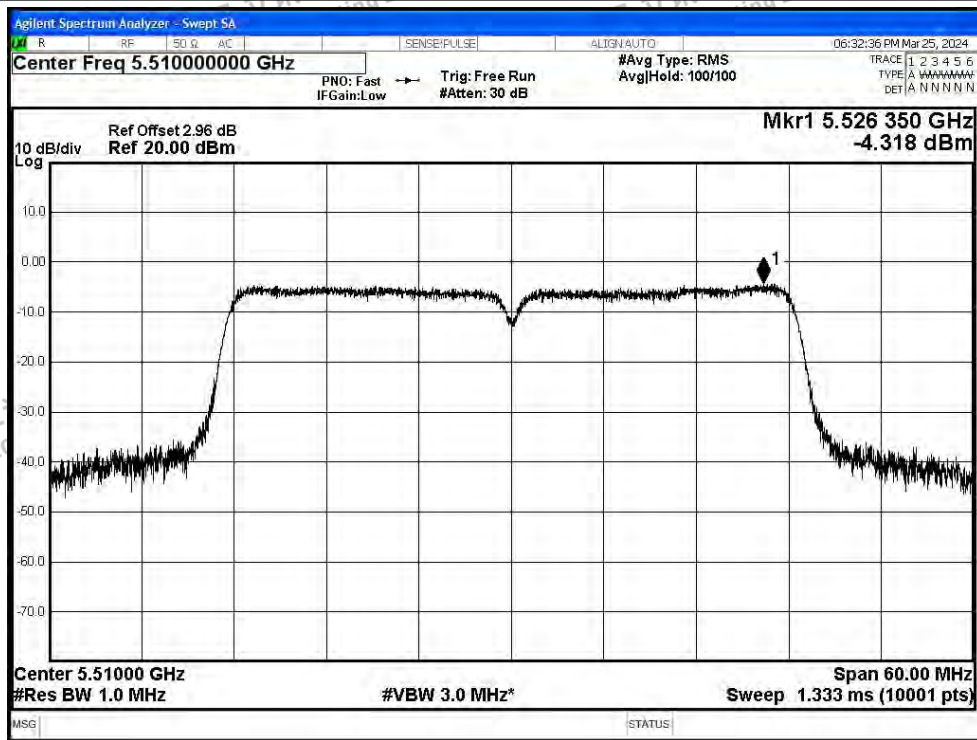


PSD NVNT n20 5700MHz Ant2

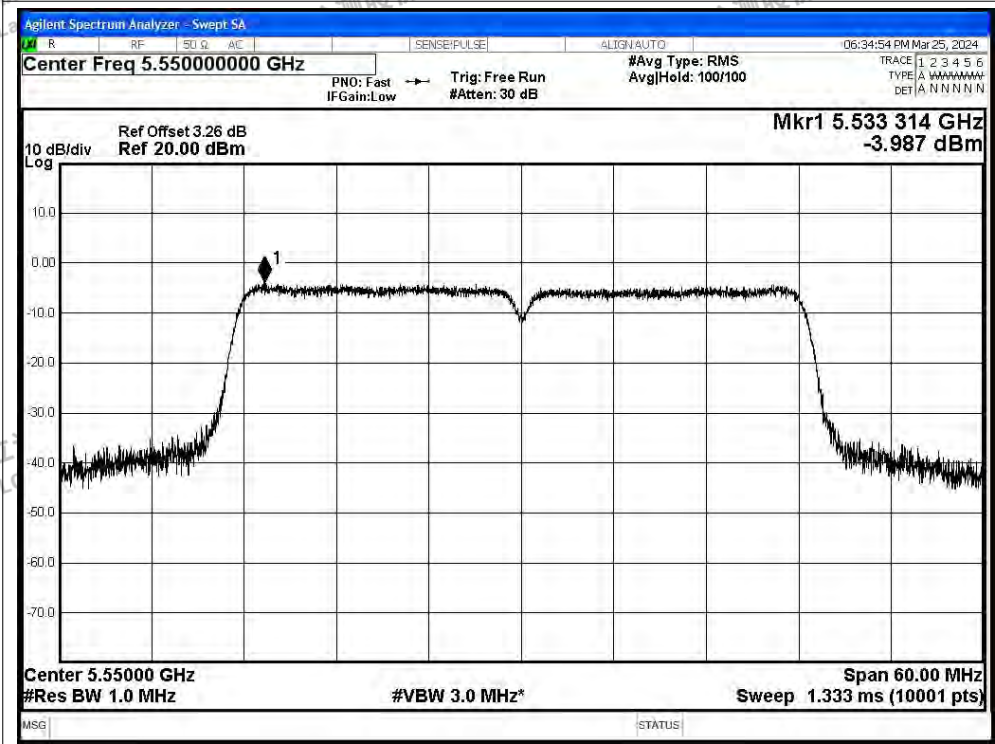




PSD NVNT n40 5510MHz Ant2

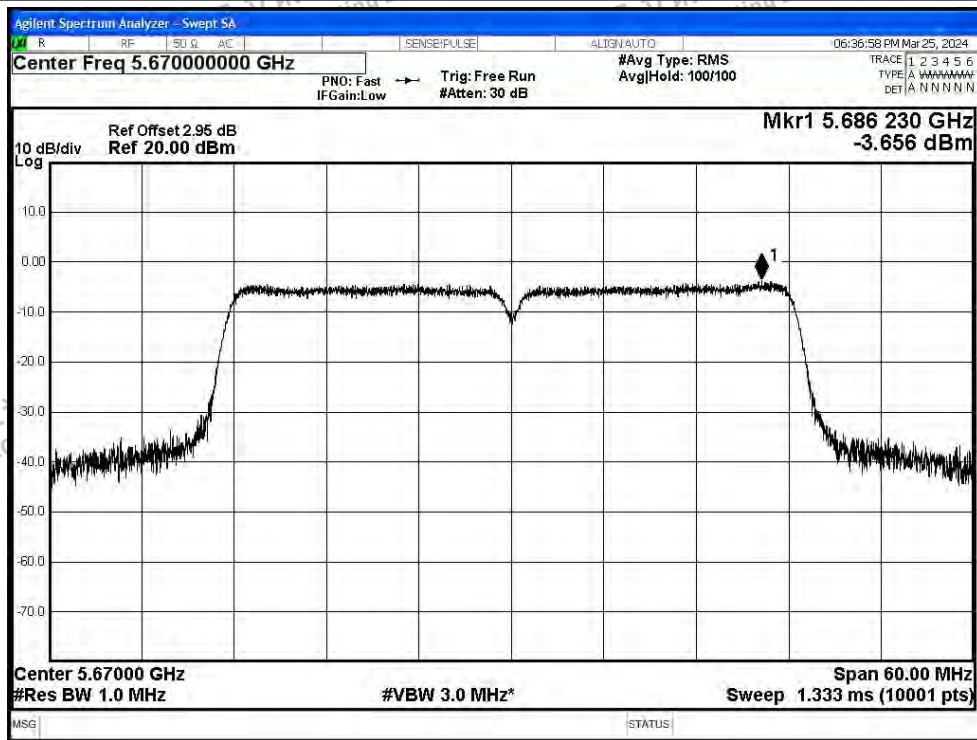


PSD NVNT n40 5550MHz Ant2

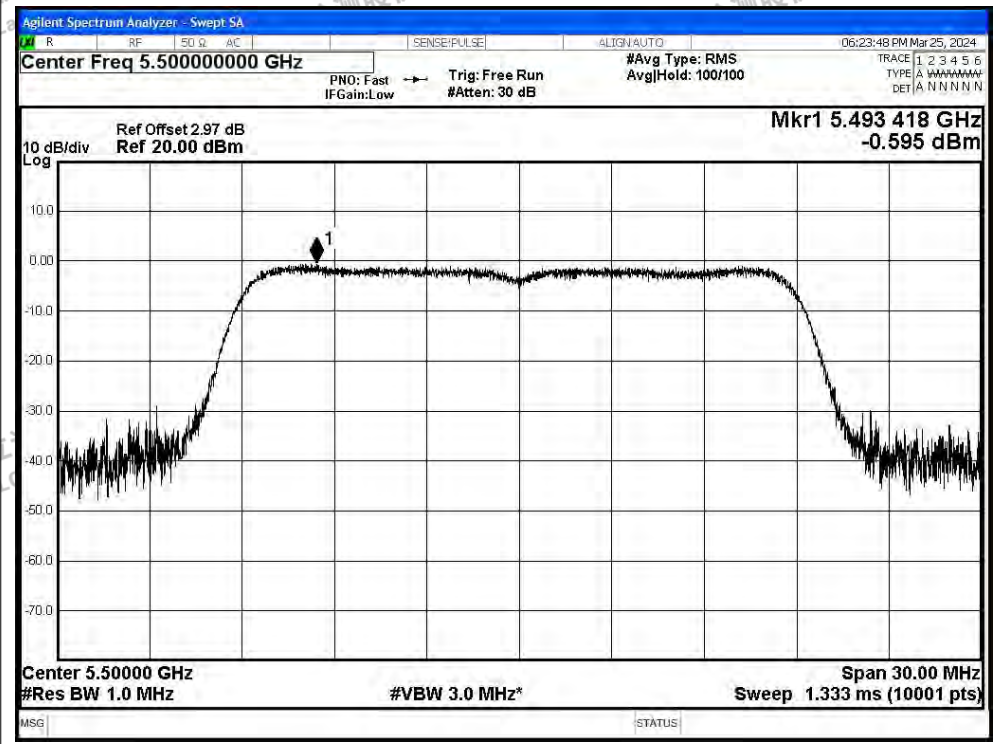




PSD NVNT n40 5670MHz Ant2

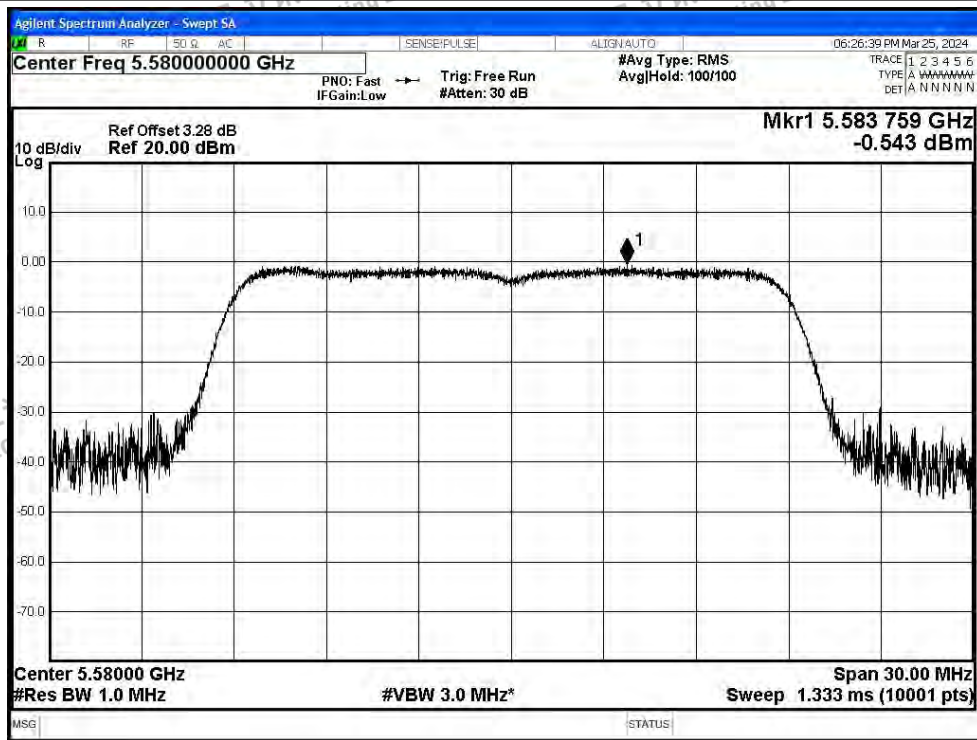


PSD NVNT ac20 5500MHz Ant2

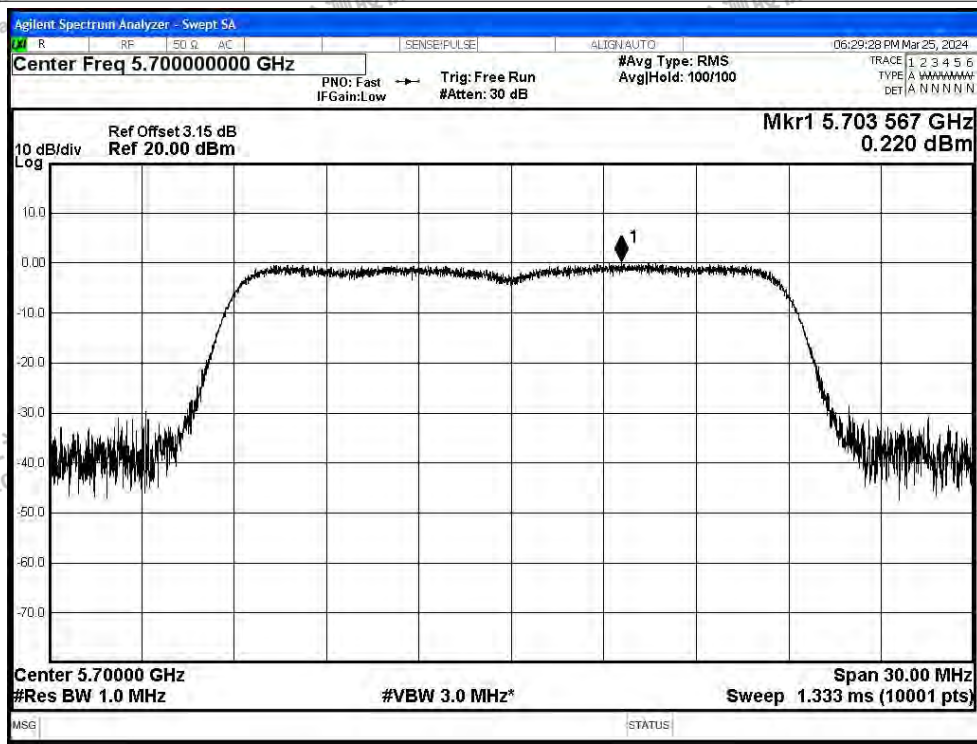




PSD NVNT ac20 5580MHz Ant2



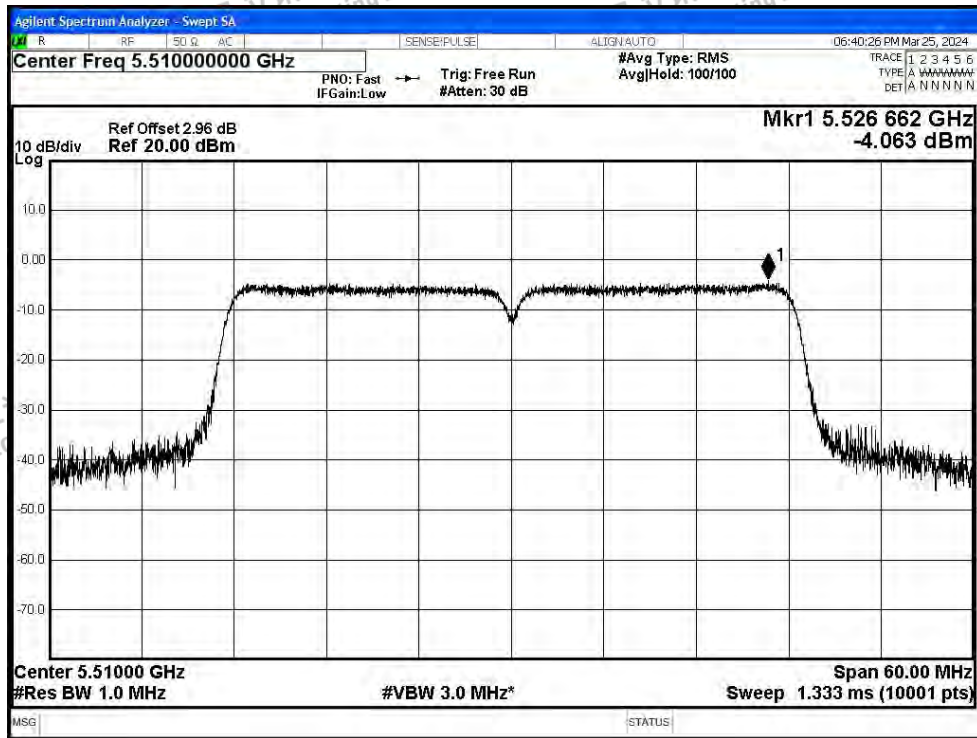
PSD NVNT ac20 5700MHz Ant2



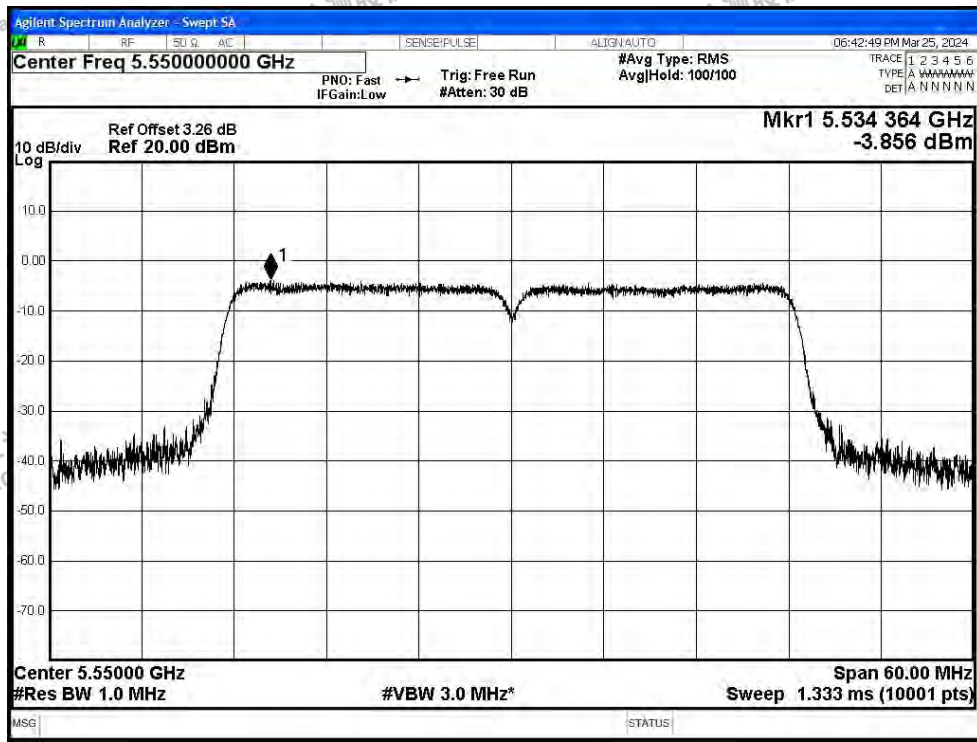




PSD NVNT ac40 5510MHz Ant2

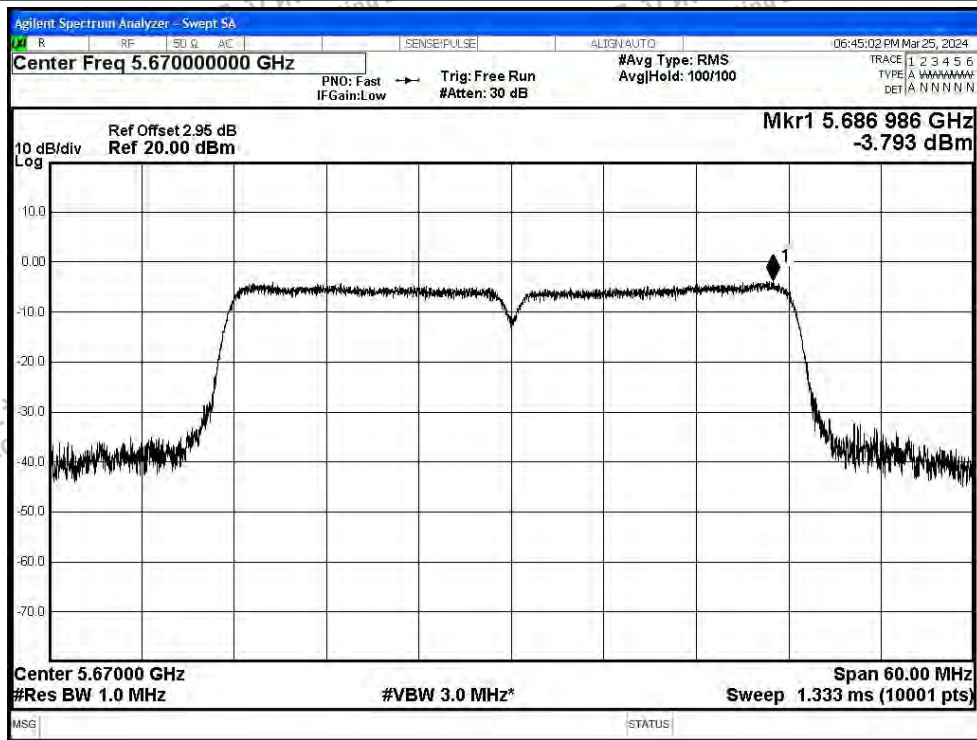


PSD NVNT ac40 5550MHz Ant2

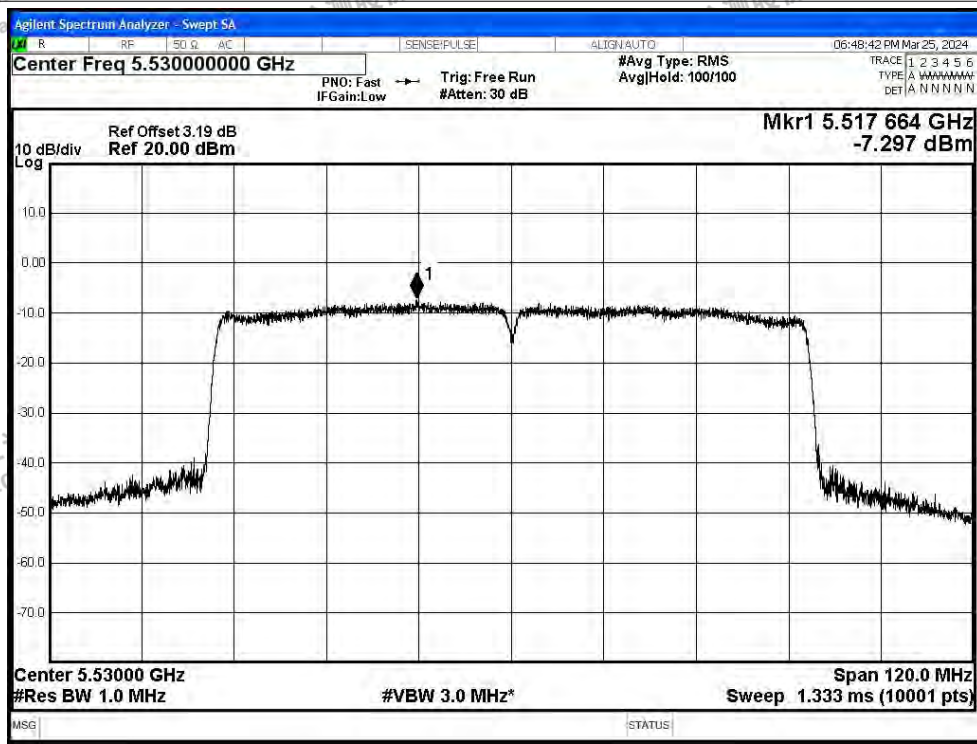




PSD NVNT ac40 5670MHz Ant2

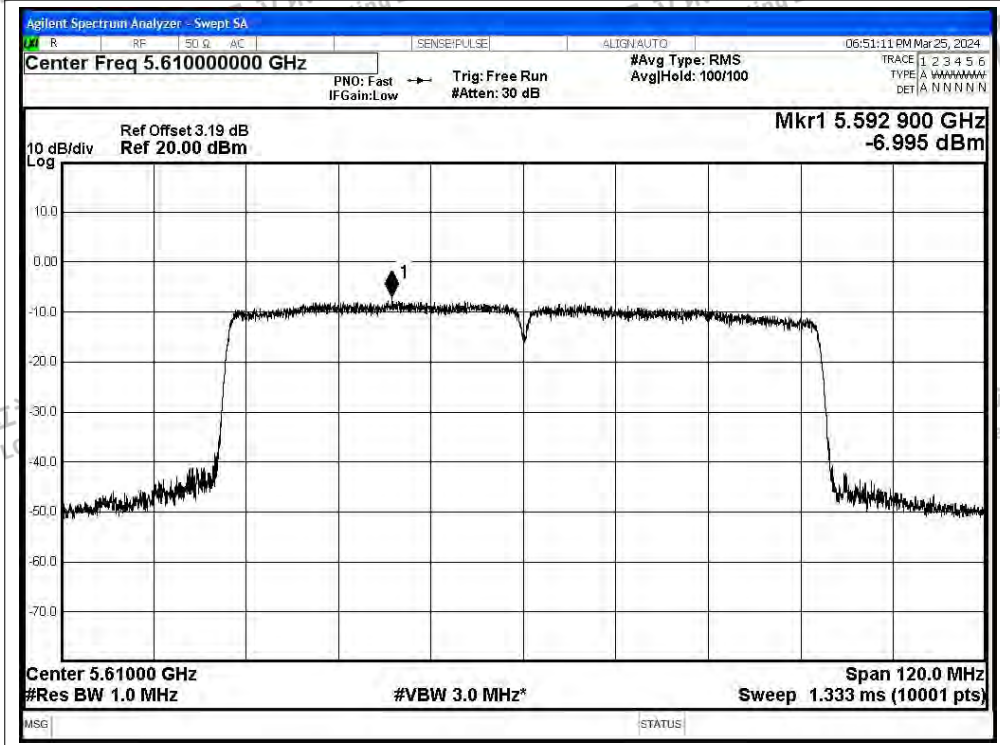


PSD NVNT ac80 5530MHz Ant2





PSD NVNT ac80 5610MHz Ant2



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  
 Scan code to check authenticity



### F.4 Restrict Band

| Condition | Mode    | Frequency (MHz) | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|---------|-----------------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | a       | 5500            | 5460            | -42.7       | 3.61       | -                | 56.17      | Peak     | 74             | Pass    |
| NVNT      | a       | 5500            | 5460            | -53.36      | 3.61       | 0.6              | 45.51      | Average  | 54             | Pass    |
| NVNT      | a       | 5500            | 5469.8          | -33.96      | 3.61       | -                | 64.91      | Peak     | 74             | Pass    |
| NVNT      | a       | 5500            | 5469.4          | -47.54      | 3.61       | 0.6              | 51.33      | Average  | 54             | Pass    |
| NVNT      | a       | 5500            | 5470            | -35.2       | 3.61       | -                | 63.67      | Peak     | 74             | Pass    |
| NVNT      | a       | 5500            | 5470            | -47.77      | 3.61       | 0.6              | 51.10      | Average  | 54             | Pass    |
| NVNT      | a       | 5700            | 5725            | -39.82      | 3.61       | -                | 59.05      | Peak     | 74             | Pass    |
| NVNT      | a       | 5700            | 5725            | -50.61      | 3.61       | 0.57             | 48.26      | Average  | 54             | Pass    |
| NVNT      | a       | 5700            | 5725.6          | -33.1       | 3.61       | -                | 65.77      | Peak     | 74             | Pass    |
| NVNT      | a       | 5700            | 5725.6          | -49.9       | 3.61       | 0.57             | 48.97      | Average  | 54             | Pass    |
| NVNT      | a       | 5700            | 5735            | -44.76      | 3.61       | -                | 54.11      | Peak     | 74             | Pass    |
| NVNT      | a       | 5700            | 5735            | -53.8       | 3.61       | 0.57             | 45.07      | Average  | 54             | Pass    |
| NVNT      | n20mimo | 5500            | 5460            | -43.17      | 6.62       | -                | 58.71      | Peak     | 74             | Pass    |
| NVNT      | n20mimo | 5500            | 5460            | -53.87      | 6.62       | 1.04             | 48.01      | Average  | 54             | Pass    |
| NVNT      | n20mimo | 5500            | 5468.8          | -35.85      | 6.62       | -                | 66.03      | Peak     | 74             | Pass    |
| NVNT      | n20mimo | 5500            | 5469.8          | -42.5       | 6.62       | 1.04             | 51.38      | Average  | 54             | Pass    |
| NVNT      | n20mimo | 5500            | 5470            | -37.73      | 6.62       | -                | 64.15      | Peak     | 74             | Pass    |
| NVNT      | n20mimo | 5500            | 5470            | -47.94      | 6.62       | 1.04             | 53.94      | Average  | 54             | Pass    |
| NVNT      | n20mimo | 5700            | 5725            | -32.81      | 6.62       | -                | 69.07      | Peak     | 74             | Pass    |
| NVNT      | n20mimo | 5700            | 5725            | -50.39      | 6.62       | 0.7              | 51.49      | Average  | 54             | Pass    |
| NVNT      | n20mimo | 5700            | 5726.6          | -31.15      | 6.62       | -                | 70.73      | Peak     | 74             | Pass    |
| NVNT      | n20mimo | 5700            | 5726.4          | -48.1       | 6.62       | 0.7              | 53.78      | Average  | 54             | Pass    |
| NVNT      | n20mimo | 5700            | 5735            | -46.28      | 6.62       | -                | 55.60      | Peak     | 74             | Pass    |
| NVNT      | n20mimo | 5700            | 5735            | -54.23      | 6.62       | 0.7              | 47.65      | Average  | 54             | Pass    |
| NVNT      | n40mimo | 5510            | 5460            | -41.35      | 6.62       | -                | 60.53      | Peak     | 74             | Pass    |
| NVNT      | n40mimo | 5510            | 5460            | -51         | 6.62       | 0.32             | 50.88      | Average  | 54             | Pass    |
| NVNT      | n40mimo | 5510            | 5469            | -31.34      | 6.62       | -                | 70.54      | Peak     | 74             | Pass    |
| NVNT      | n40mimo | 5510            | 5468.6          | -42.87      | 6.62       | 0.32             | 51.01      | Average  | 54             | Pass    |
| NVNT      | n40mimo | 5510            | 5470            | -35.69      | 6.62       | -                | 66.19      | Peak     | 74             | Pass    |
| NVNT      | n40mimo | 5510            | 5470            | -44.72      | 6.62       | 0.32             | 51.16      | Average  | 54             | Pass    |
| NVNT      | n40mimo | 5670            | 5725            | -46.02      | 6.62       | -                | 55.86      | Peak     | 74             | Pass    |
| NVNT      | n40mimo | 5670            | 5725            | -55.19      | 6.62       | 0.97             | 46.69      | Average  | 54             | Pass    |
| NVNT      | n40mimo | 5670            | 5725.4          | -43.73      | 6.62       | -                | 58.15      | Peak     | 74             | Pass    |
| NVNT      | n40mimo | 5670            | 5725.6          | -54.55      | 6.62       | 0.97             | 47.33      | Average  | 54             | Pass    |
| NVNT      | n40mimo | 5670            | 5735            | -47.94      | 6.62       | -                | 53.94      | Peak     | 74             | Pass    |
| NVNT      | n40mimo | 5670            | 5735            | -56.32      | 6.62       | 0.97             | 45.56      | Average  | 54             | Pass    |



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  
 Scan code to check authenticity



|      |          |      |          |        |      |      |       |         |    |      |
|------|----------|------|----------|--------|------|------|-------|---------|----|------|
| NVNT | ac20mimo | 5500 | 5460     | -43.44 | 6.62 | -    | 58.44 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5500 | 5460     | -54.15 | 6.62 | 0.66 | 47.73 | Average | 54 | Pass |
| NVNT | ac20mimo | 5500 | 5468.8   | -36.44 | 6.62 | -    | 65.44 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5500 | 5469.4   | -48.47 | 6.62 | 0.66 | 53.41 | Average | 54 | Pass |
| NVNT | ac20mimo | 5500 | 5470     | -37.06 | 6.62 | -    | 64.82 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5500 | 5470     | -48.95 | 6.62 | 0.66 | 52.93 | Average | 54 | Pass |
| NVNT | ac20mimo | 5700 | 5725     | -31.62 | 6.62 | -    | 70.26 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5700 | 5725     | -44.85 | 6.62 | 0.69 | 57.03 | Average | 54 | Pass |
| NVNT | ac20mimo | 5700 | 5725.2   | -29.72 | 6.62 | -    | 72.16 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5700 | 5735     | -45.32 | 6.62 | -    | 56.56 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5700 | 5735     | -53.72 | 6.62 | 0.69 | 48.16 | Average | 54 | Pass |
| NVNT | ac40mimo | 5510 | 5460     | -41.22 | 6.62 | -    | 60.66 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5510 | 5460     | -58.62 | 6.62 | 1    | 43.26 | Average | 54 | Pass |
| NVNT | ac40mimo | 5510 | 5466     | -29.42 | 6.62 | -    | 72.46 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5510 | 5465.2   | -57.64 | 6.62 | 1    | 44.24 | Average | 54 | Pass |
| NVNT | ac40mimo | 5510 | 5470     | -36.56 | 6.62 | -    | 65.32 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5510 | 5470     | -58.12 | 6.62 | 1    | 43.76 | Average | 54 | Pass |
| NVNT | ac40mimo | 5670 | 5725     | -46.2  | 6.62 | -    | 55.68 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5670 | 5725     | -55.7  | 6.62 | 1.27 | 46.18 | Average | 54 | Pass |
| NVNT | ac40mimo | 5670 | 5730.6   | -44.55 | 6.62 | -    | 57.33 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5670 | 5726.6   | -54.86 | 6.62 | 1.27 | 47.02 | Average | 54 | Pass |
| NVNT | ac40mimo | 5670 | 5735     | -47.76 | 6.62 | -    | 54.12 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5670 | 5735     | -56.6  | 6.62 | 1.27 | 45.28 | Average | 54 | Pass |
| NVNT | ac80mimo | 5530 | 5460     | -39.83 | 6.62 | -    | 62.05 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5530 | 5460     | -48.44 | 6.62 | 2.03 | 53.44 | Average | 54 | Pass |
| NVNT | ac80mimo | 5530 | 5467.2   | -36.01 | 6.62 | -    | 65.87 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5530 | 5465.6   | -47.16 | 6.62 | 2.03 | 54.72 | Average | 54 | Pass |
| NVNT | ac80mimo | 5530 | 5470     | -37.54 | 6.62 | -    | 64.34 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5530 | 5470     | -48.24 | 6.62 | 2.03 | 53.64 | Average | 54 | Pass |
| NVNT | ac80mimo | 5610 | 5725     | -48.85 | 6.62 | -    | 53.03 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5610 | 5725     | -56.58 | 6.62 | 1.86 | 45.30 | Average | 54 | Pass |
| NVNT | ac80mimo | 5610 | 5733.565 | -45.39 | 6.62 | -    | 56.49 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5610 | 5725.775 | -55.97 | 6.62 | 1.86 | 45.91 | Average | 54 | Pass |
| NVNT | ac80mimo | 5610 | 5735     | -47.01 | 6.62 | -    | 54.87 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5610 | 5735     | -57.52 | 6.62 | 1.86 | 44.36 | Average | 54 | Pass |

Note: 802.11a mode, only show the worst set of antenna1 data.

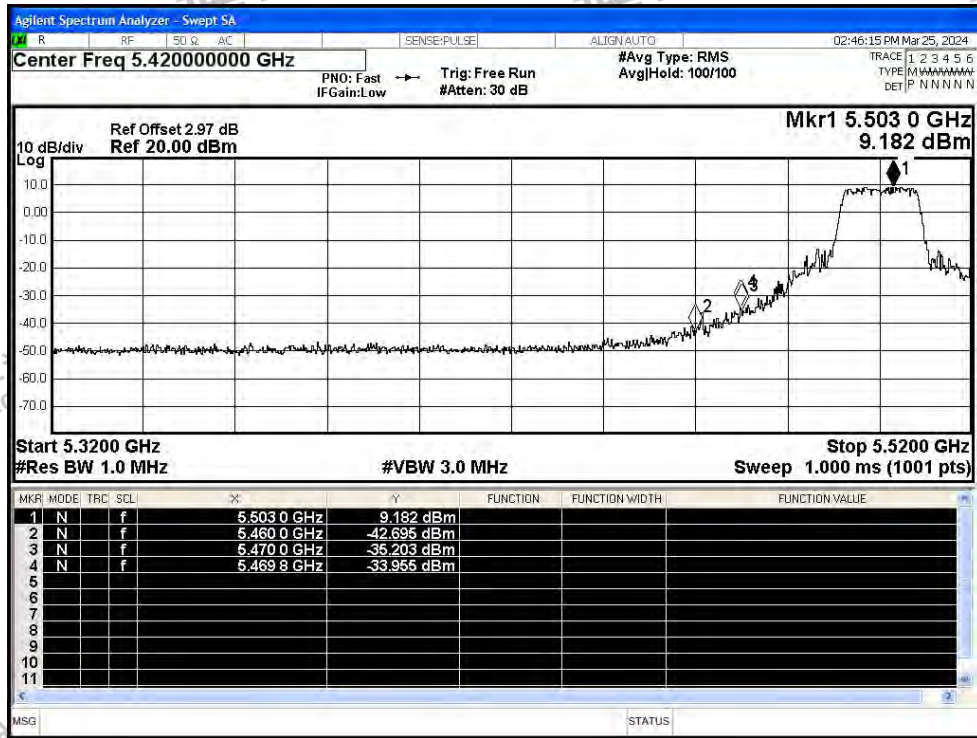


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

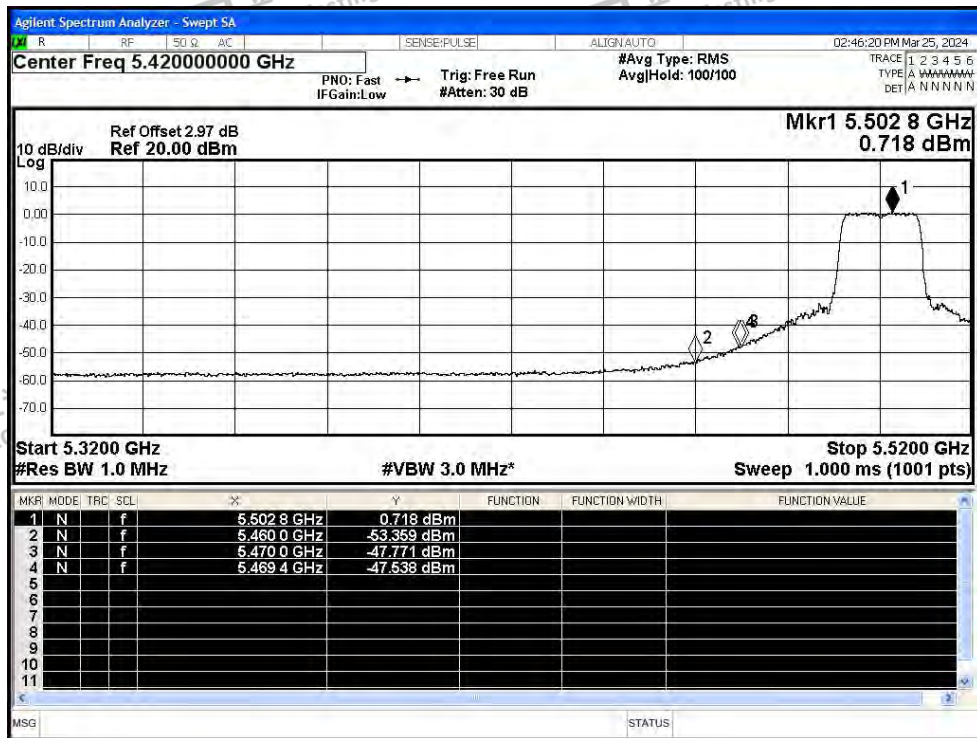


Test Graphs

Restrict Band NVNT a 5500MHz Peak

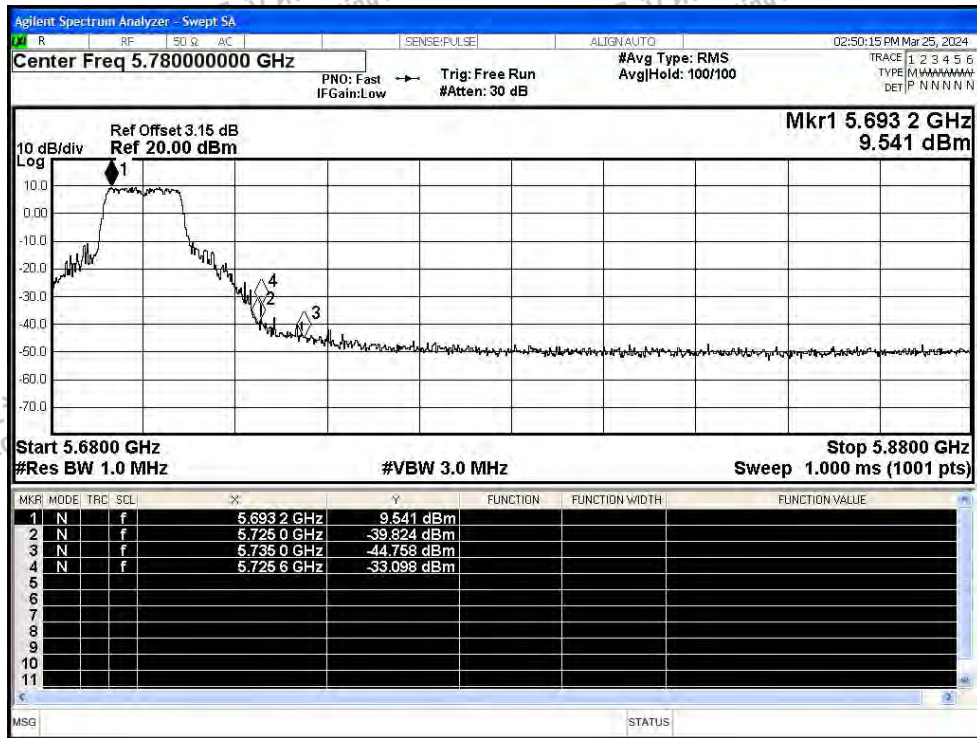


Restrict Band NVNT a 5500MHz Average

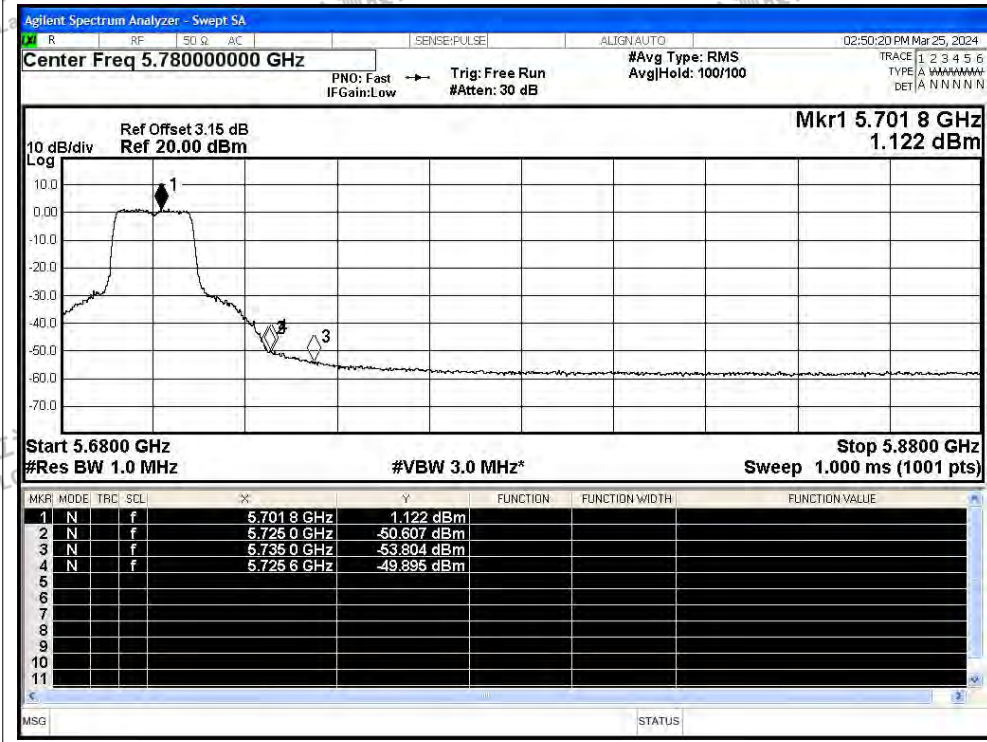




Restrict Band NVNT a 5700MHz Peak

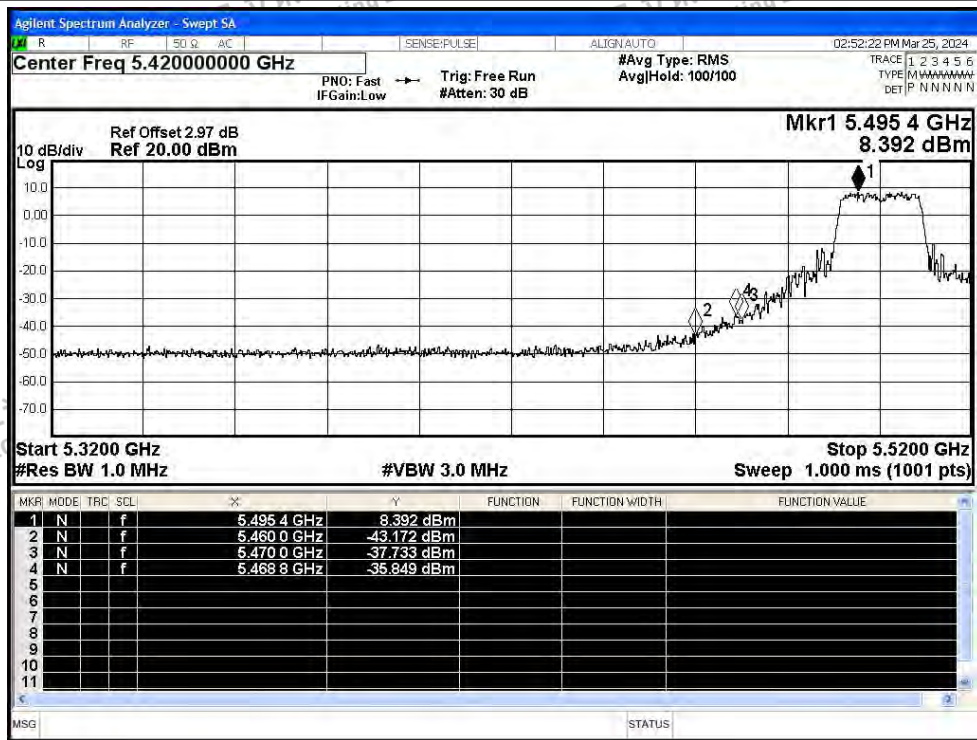


Restrict Band NVNT a 5700MHz Average

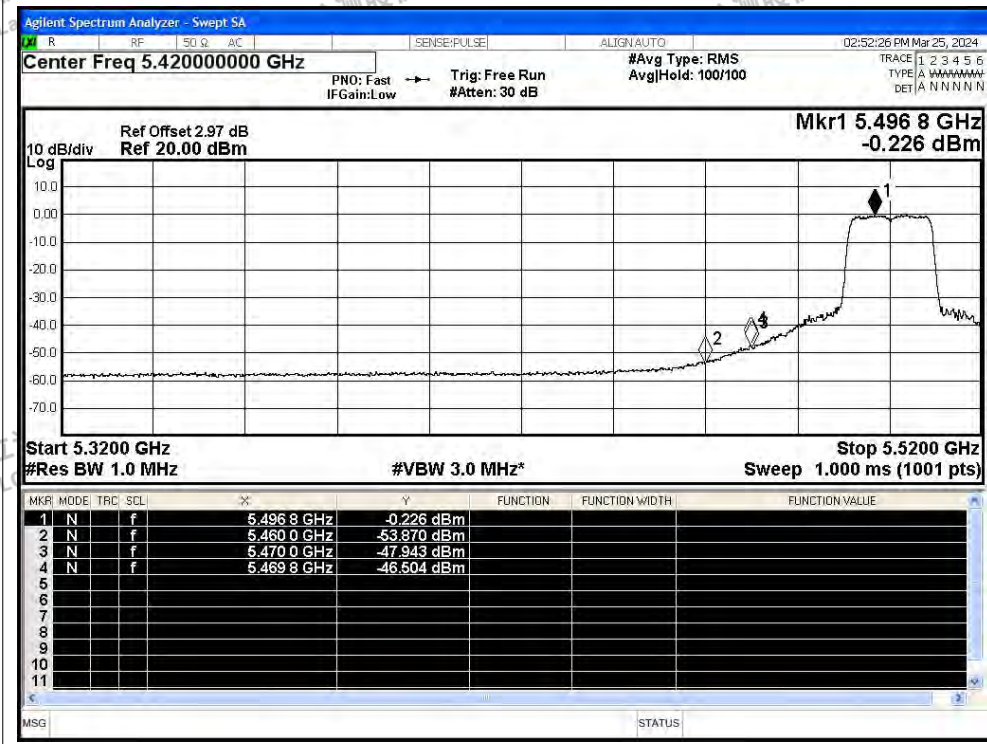




Restrict Band NVNT n20 5500MHz Peak



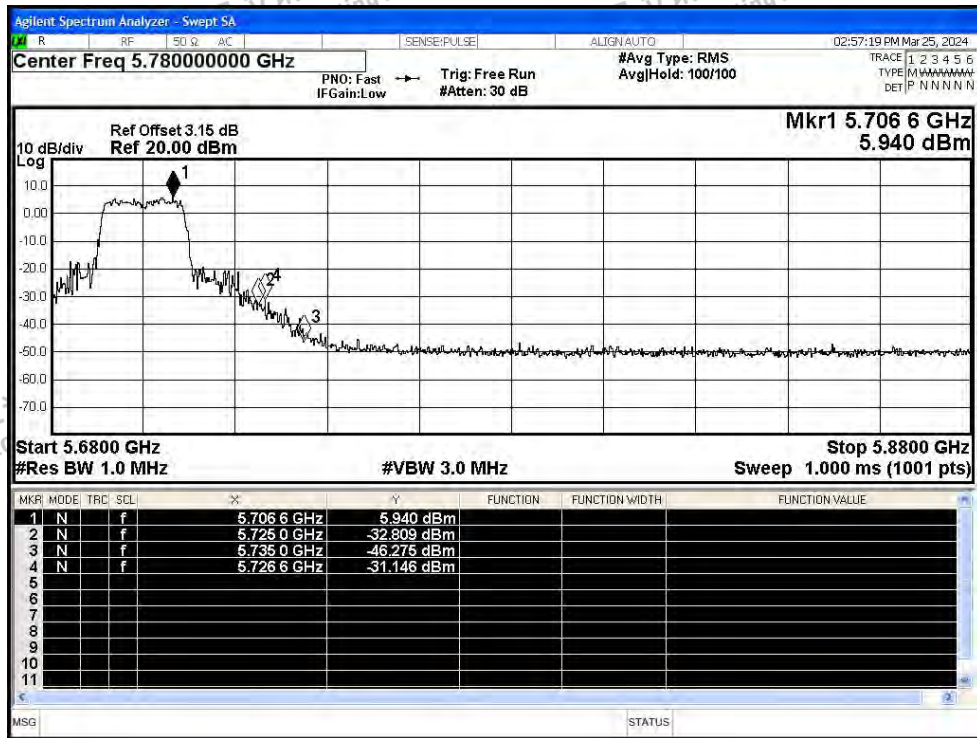
Restrict Band NVNT n20 5500MHz Average



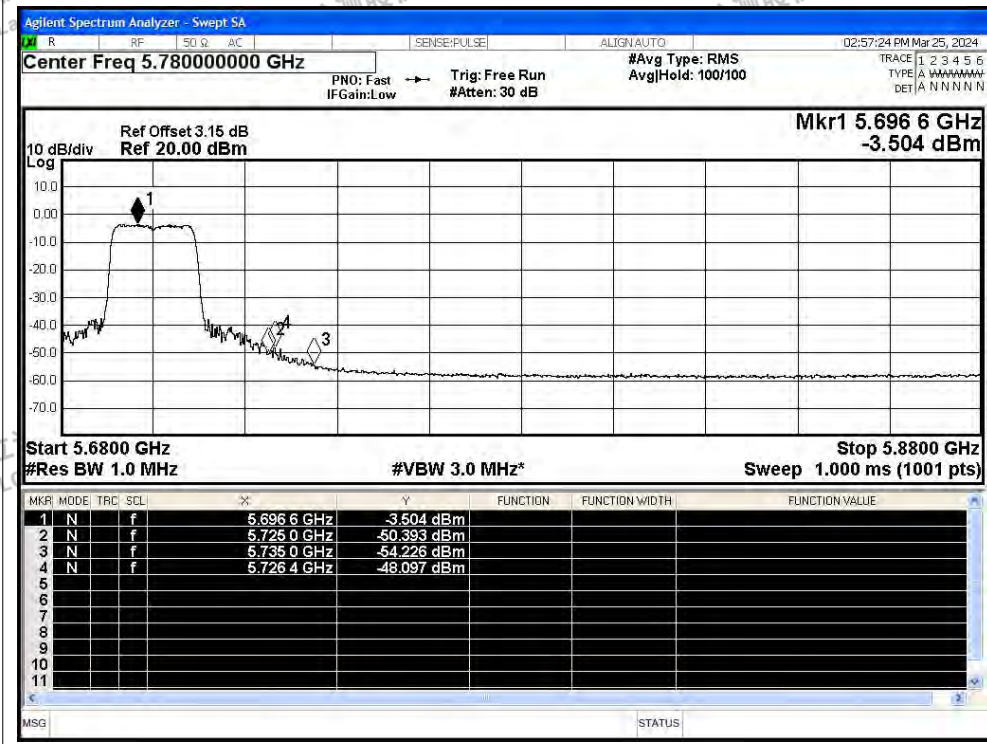




Restrict Band NVNT n20 5700MHz Peak



Restrict Band NVNT n20 5700MHz Average

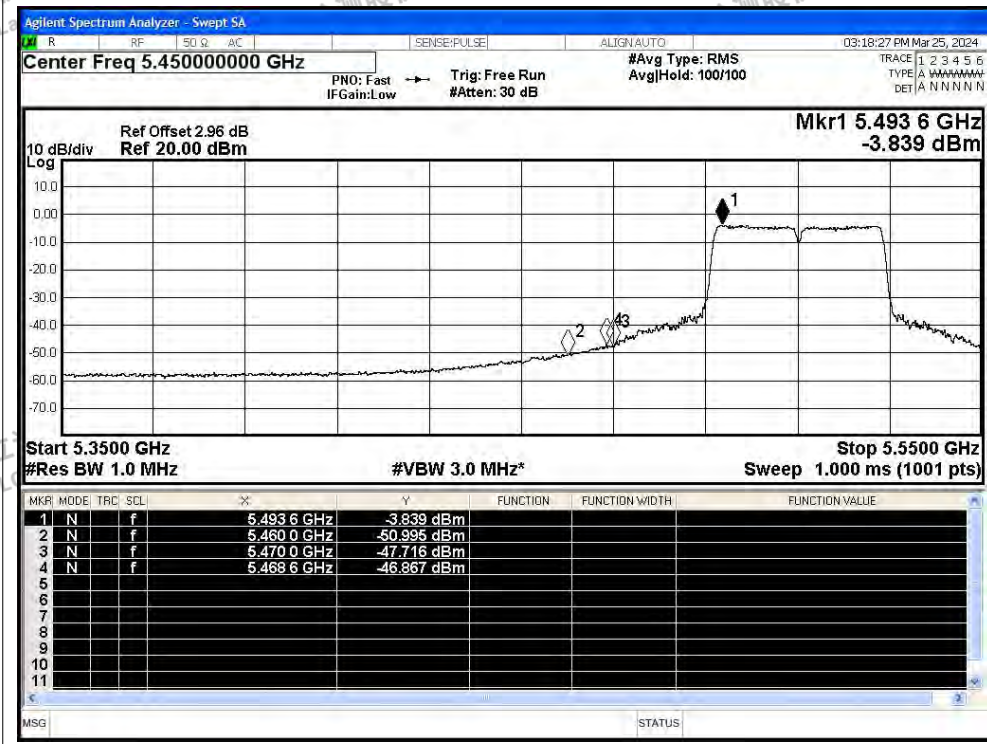




Restrict Band NVNT n40 5510MHz Peak

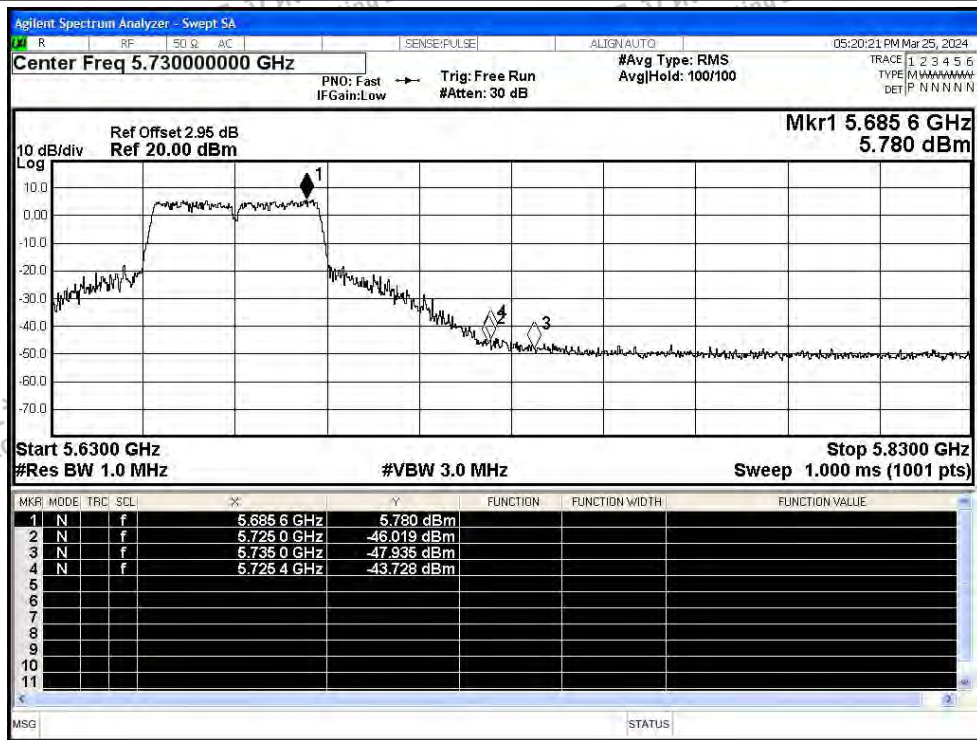


Restrict Band NVNT n40 5510MHz Average

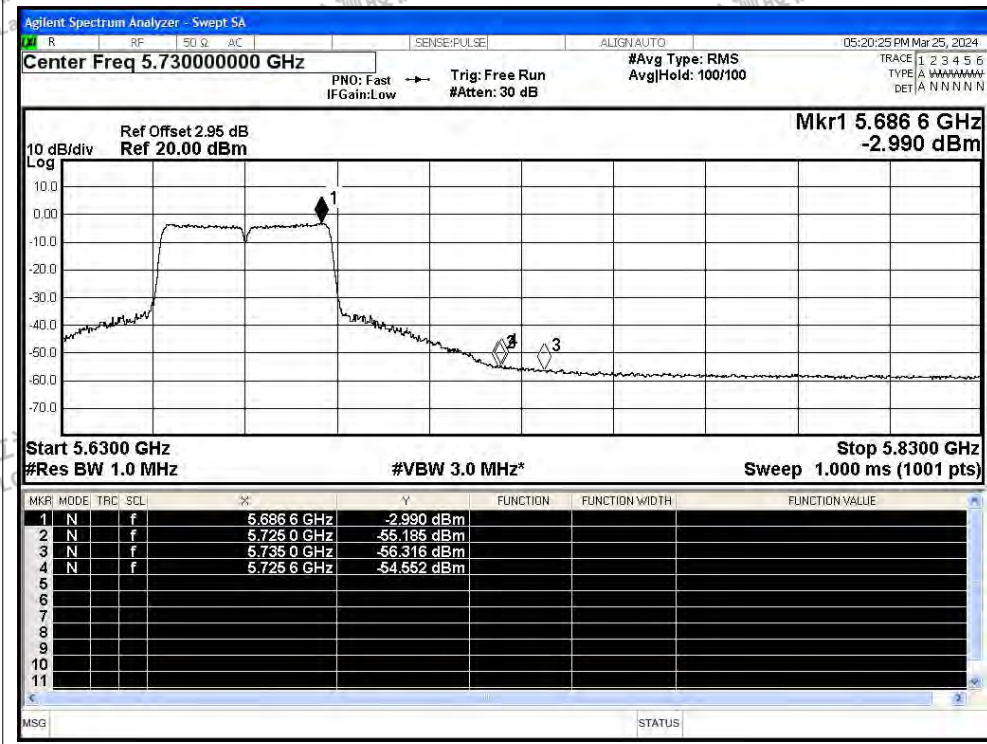




Restrict Band NVNT n40 5670MHz Peak

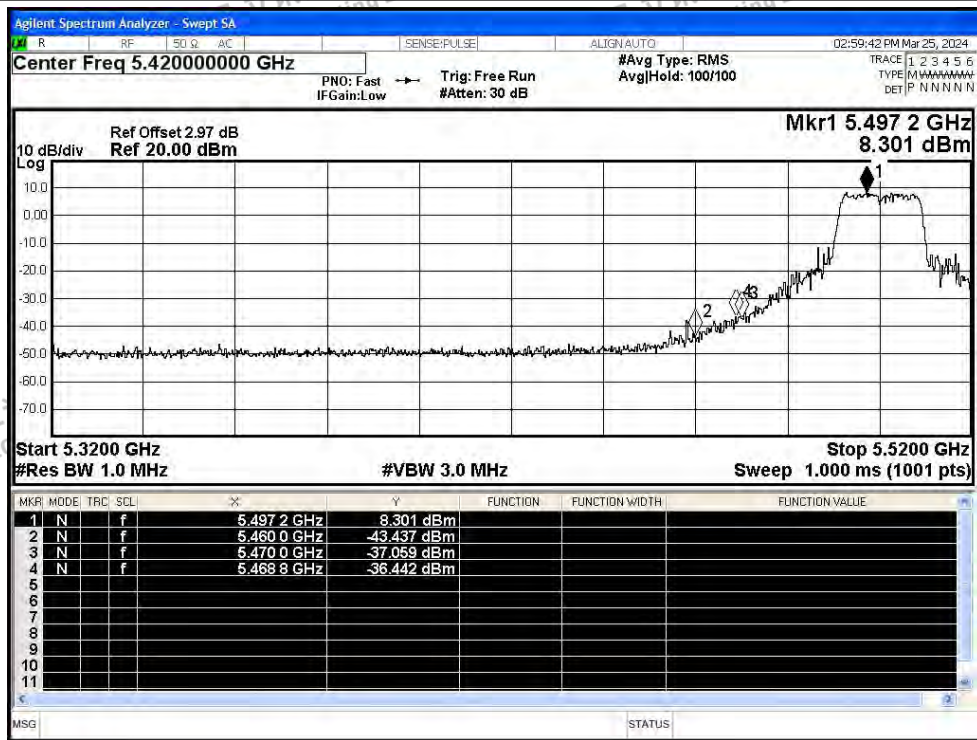


Restrict Band NVNT n40 5670MHz Average

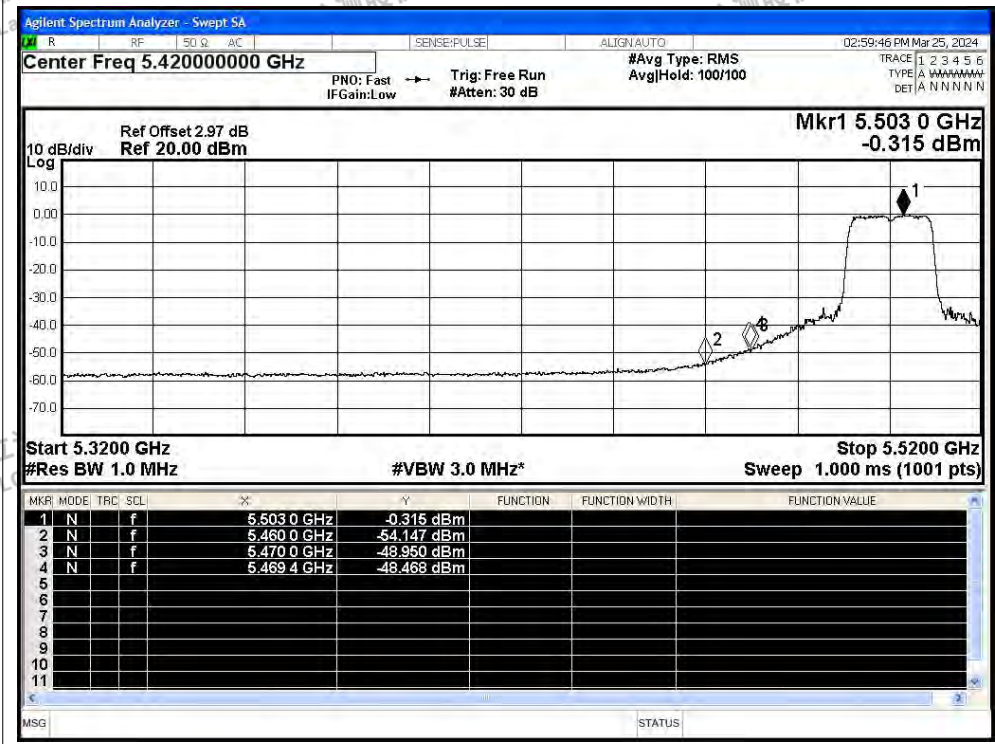




Restrict Band NVNT ac20 5500MHz Peak

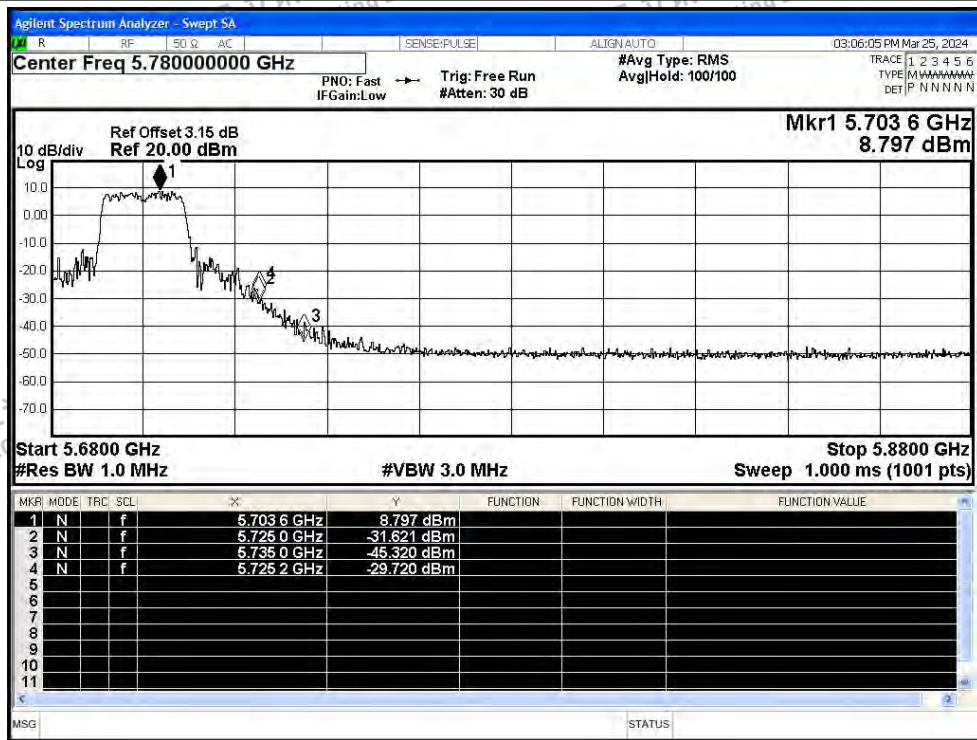


Restrict Band NVNT ac20 5500MHz Average

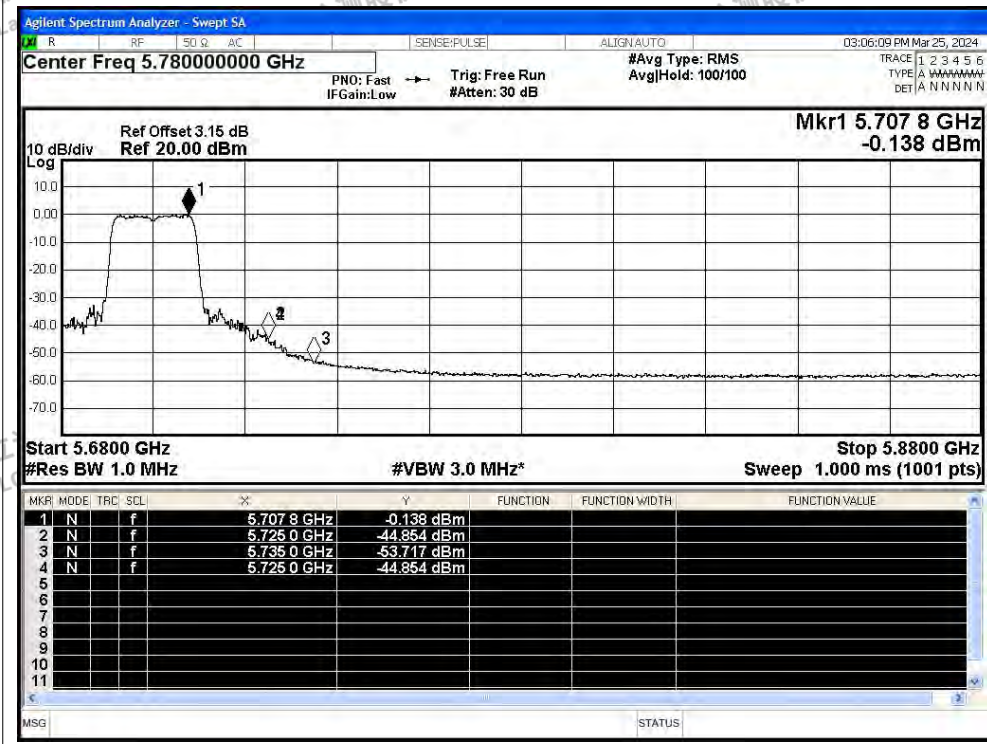




Restrict Band NVNT ac20 5700MHz Peak

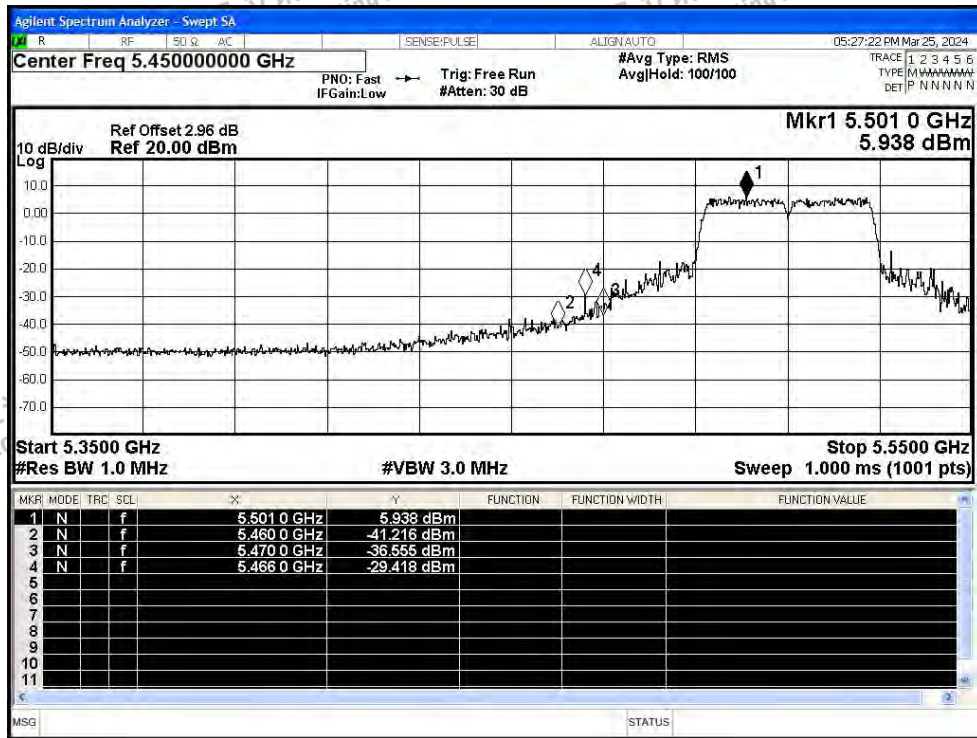


Restrict Band NVNT ac20 5700MHz Average

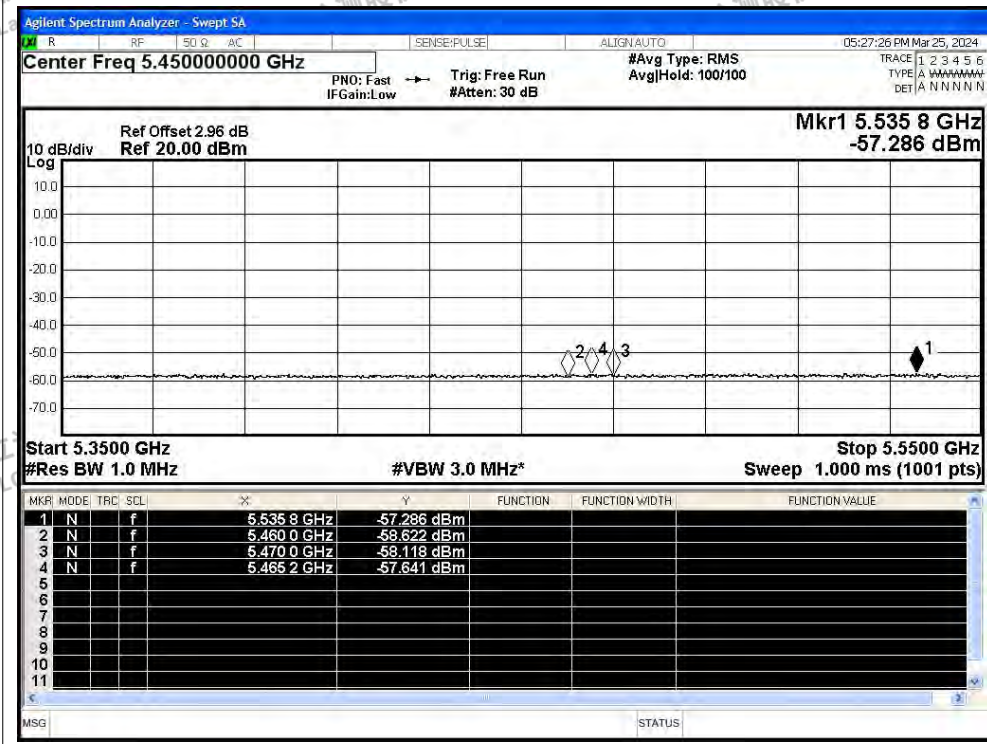




Restrict Band NVNT ac40 5510MHz Peak

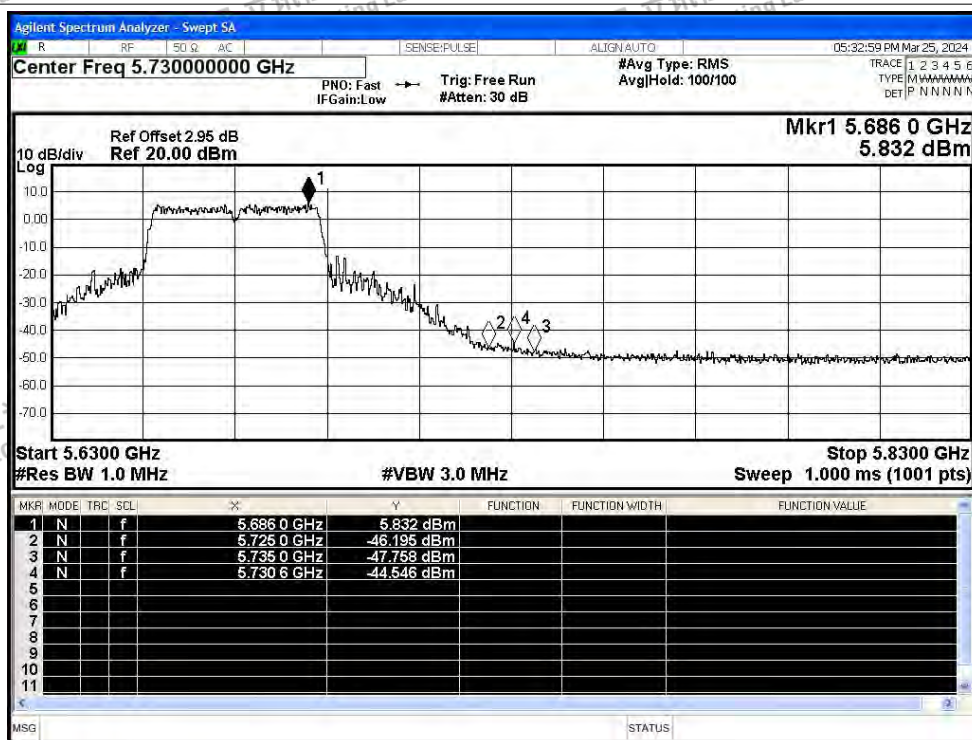


Restrict Band NVNT ac40 5510MHz Average

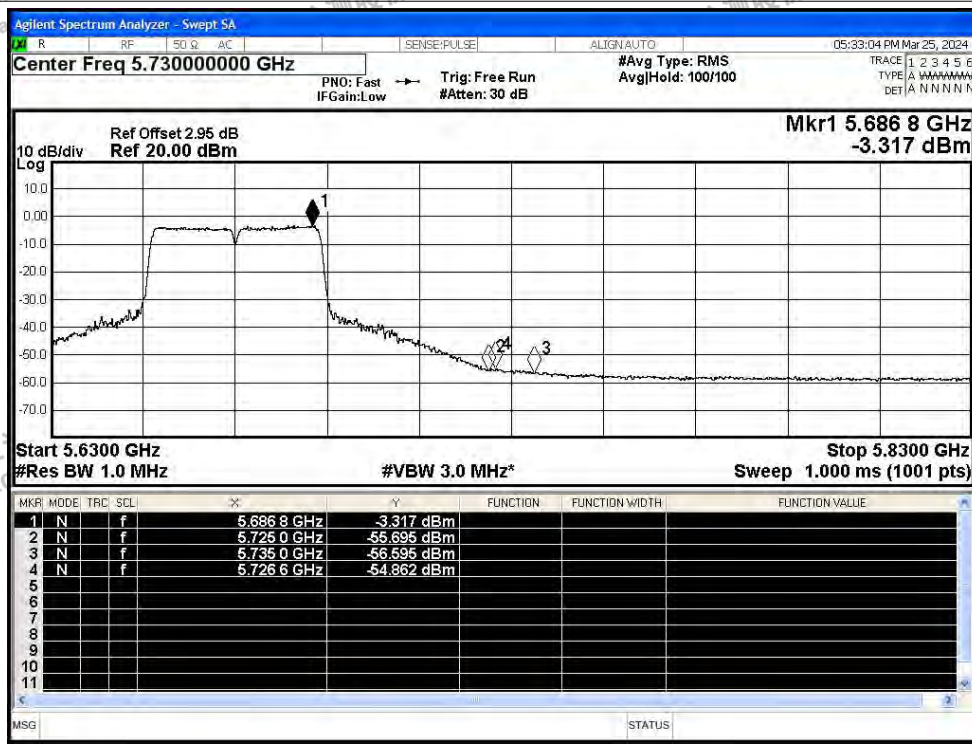




Restrict Band NVNT ac40 5670MHz Peak

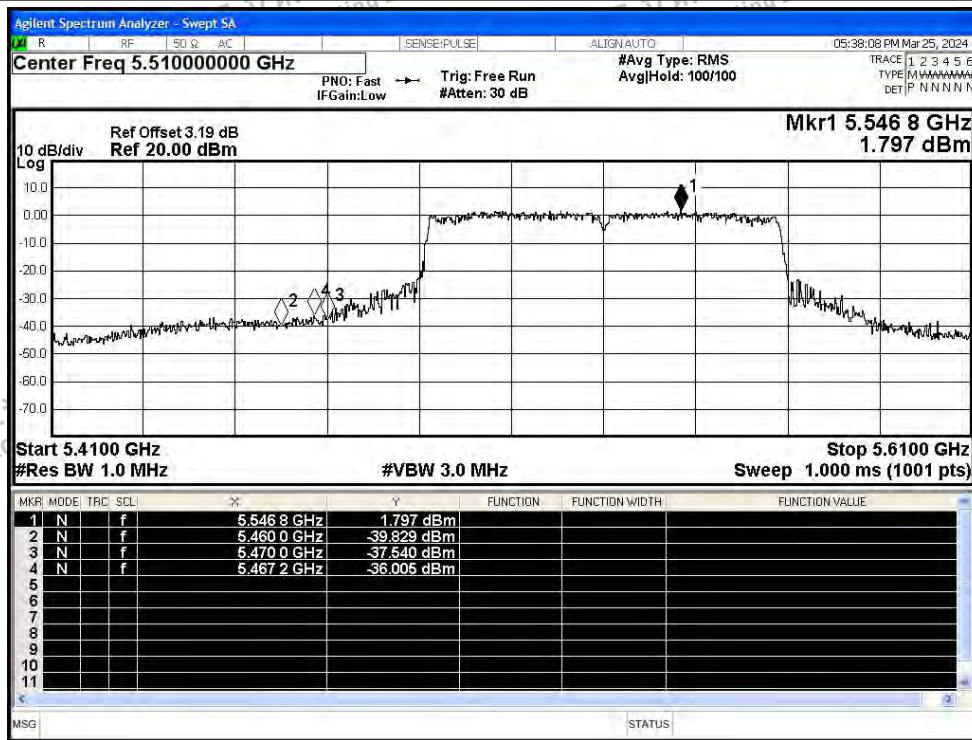


Restrict Band NVNT ac40 5670MHz Average

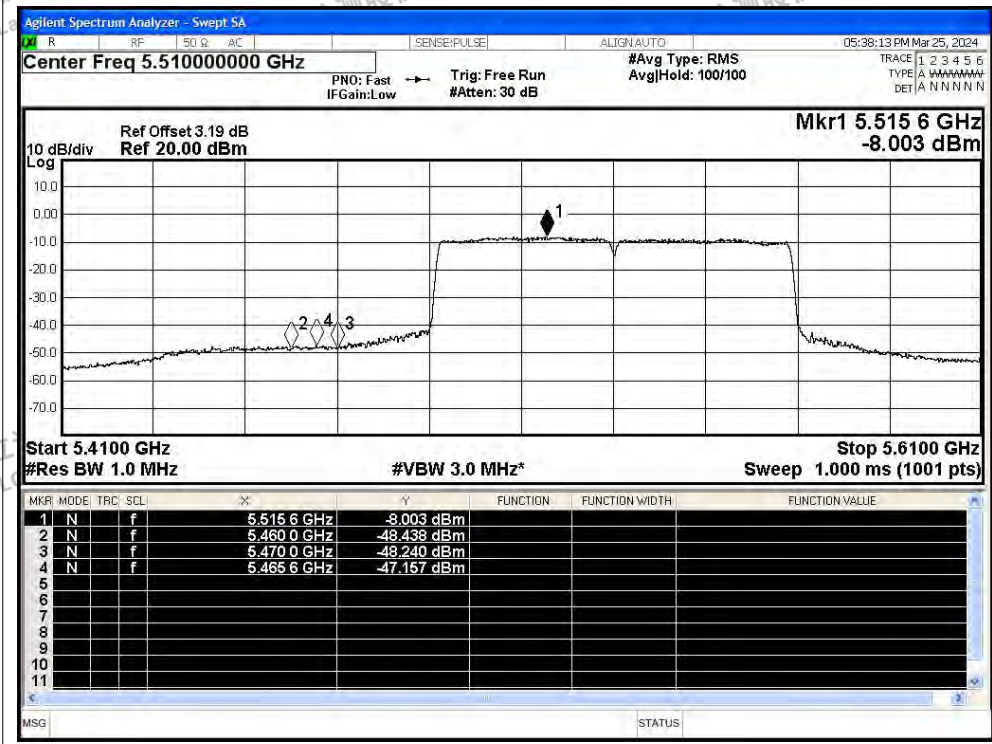




Restrict Band NVNT ac80 5530MHz Peak



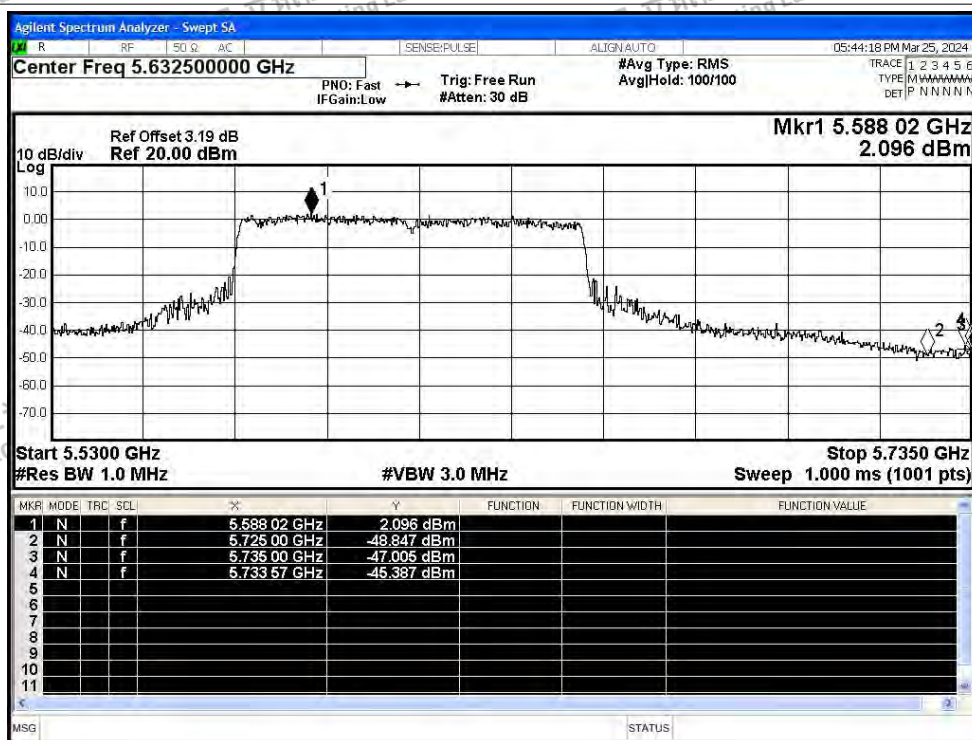
Restrict Band NVNT ac80 5530MHz Average



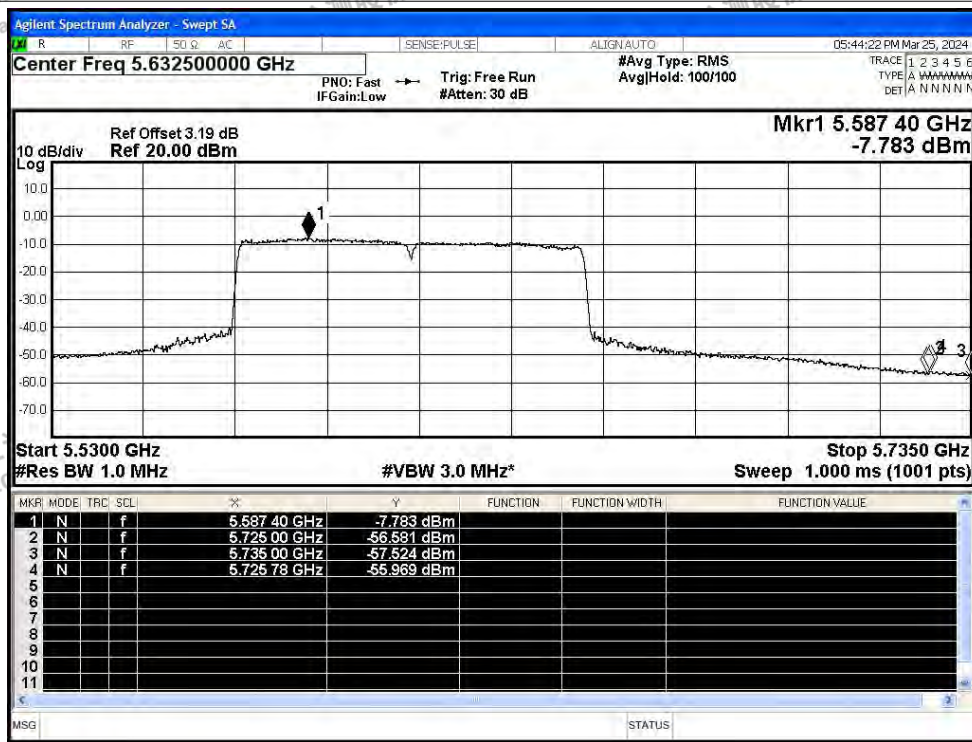




Restrict Band NVNT ac80 5610MHz Peak



Restrict Band NVNT ac80 5610MHz Average





### F.5 Frequency Stability

| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | ac20 | 5500            | Ant1    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 5579.98                  | -20000               | -3.58           | 25          | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 5699.98                  | -20000               | -3.51           | 25          | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | 5510                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | 5550                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | 5670                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | 5530                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | 5610                     | 0                    | 0               | 25          | Pass    |

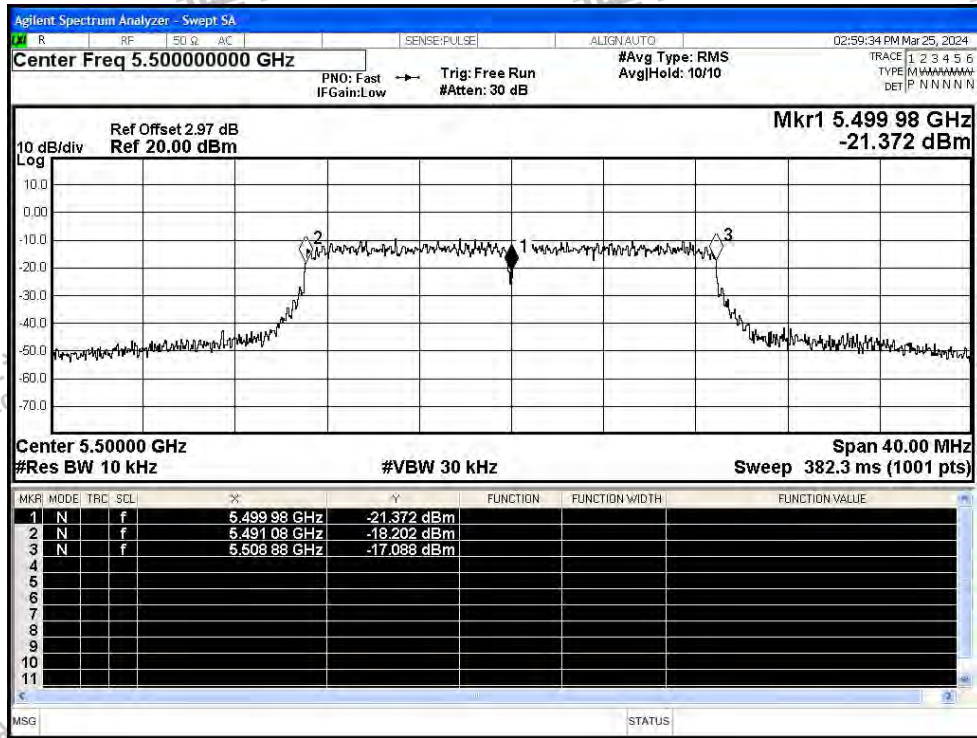


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

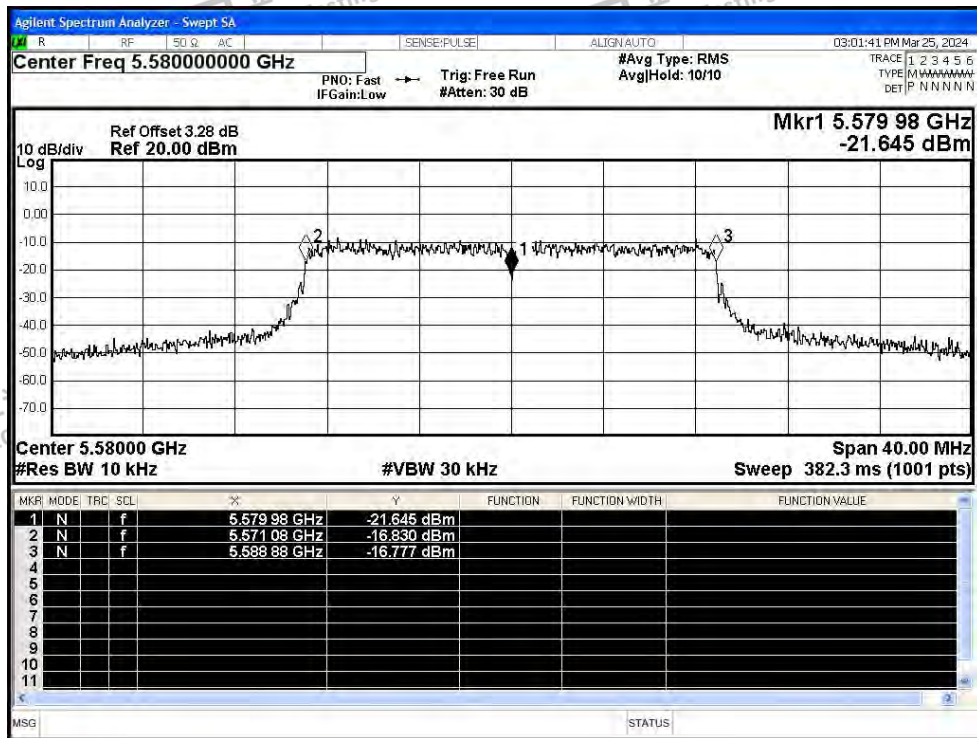


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant1

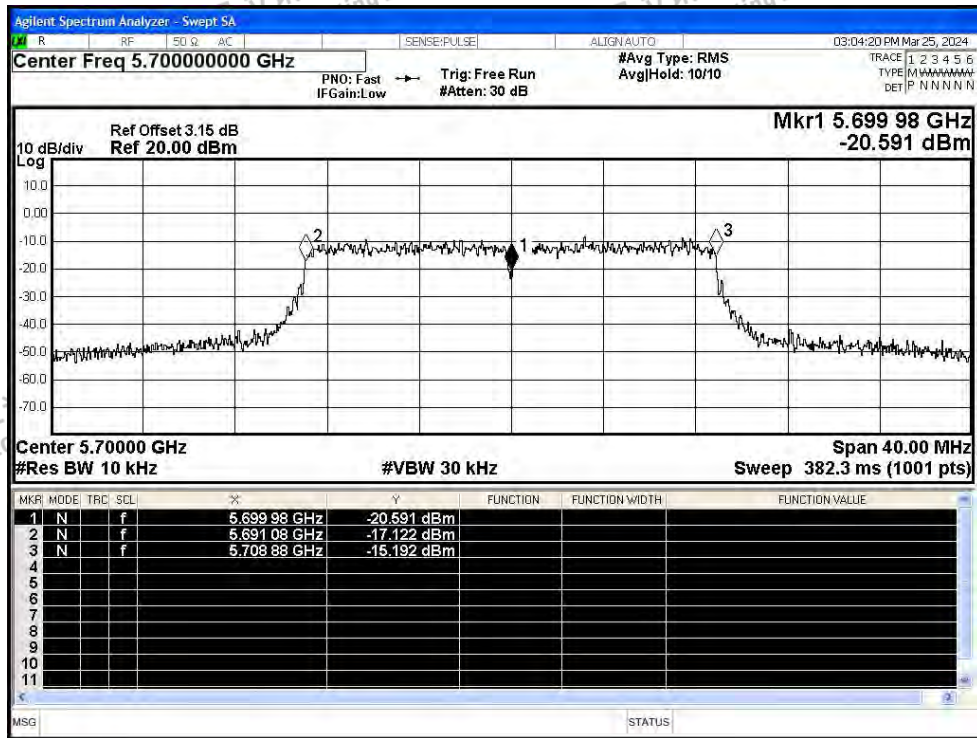


Freq. Stability NVNT ac20 5580MHz Ant1

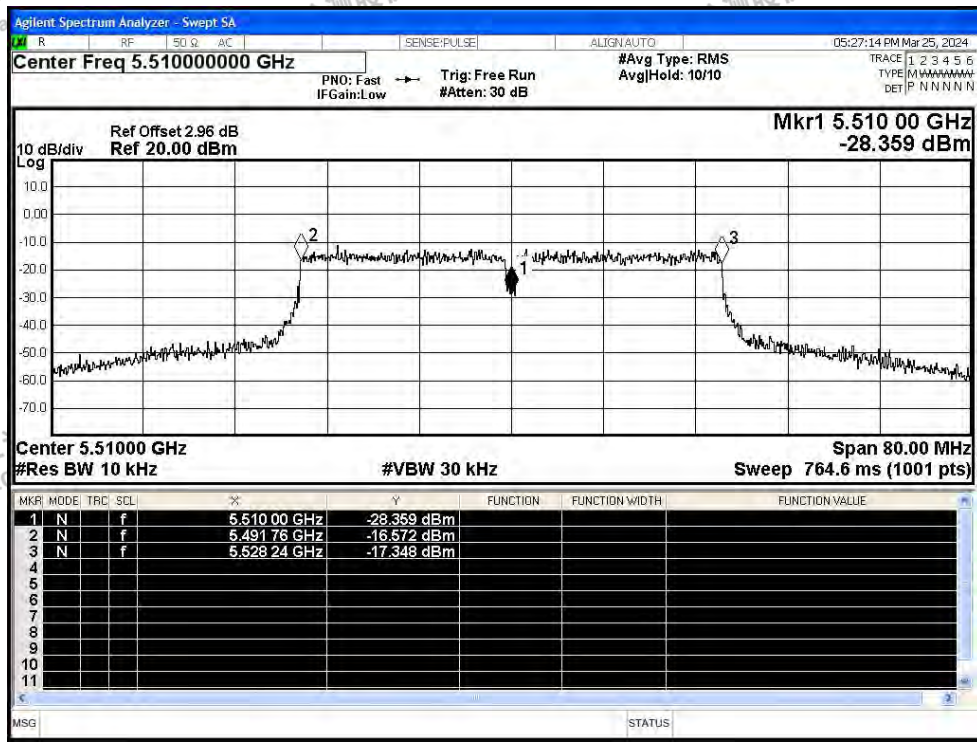




Freq. Stability NVNT ac20 5700MHz Ant1

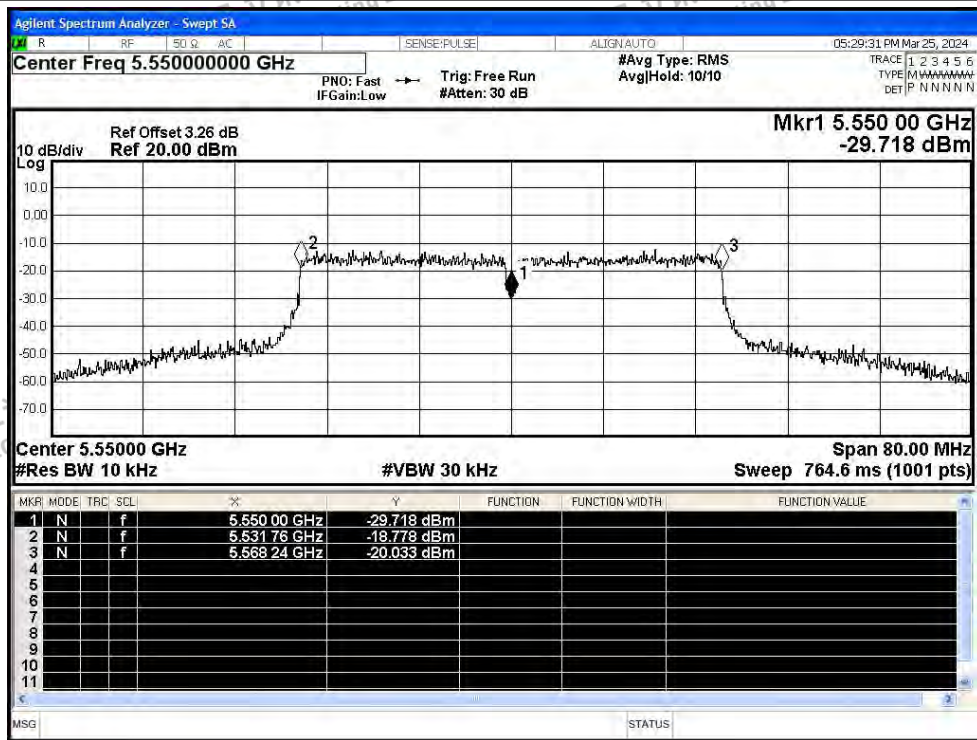


Freq. Stability NVNT ac40 5510MHz Ant1

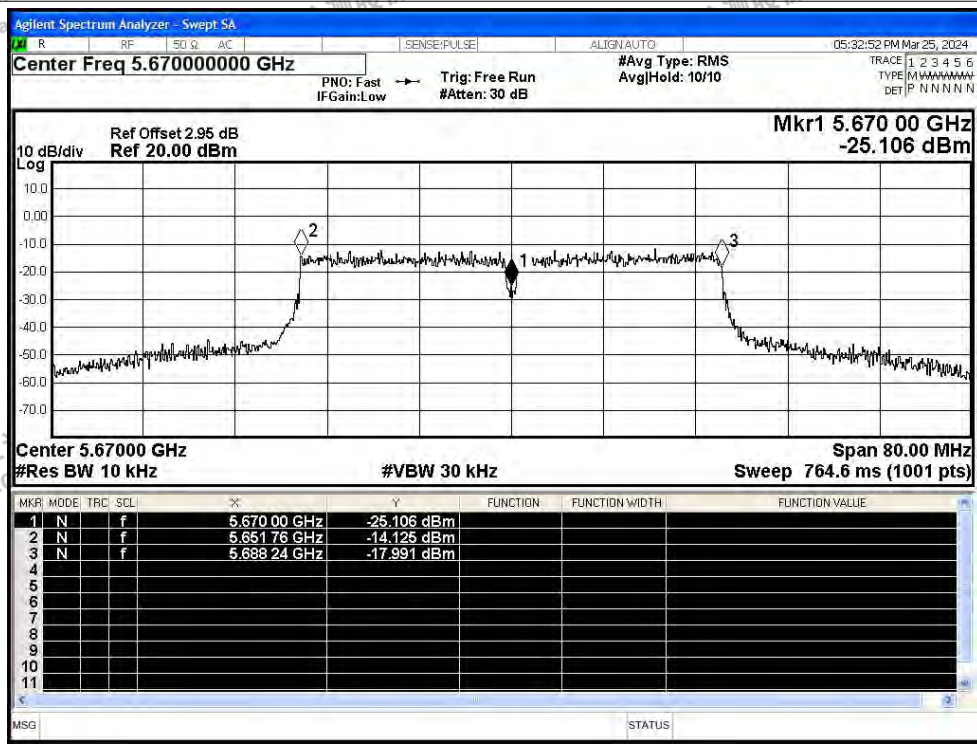




Freq. Stability NVNT ac40 5550MHz Ant1

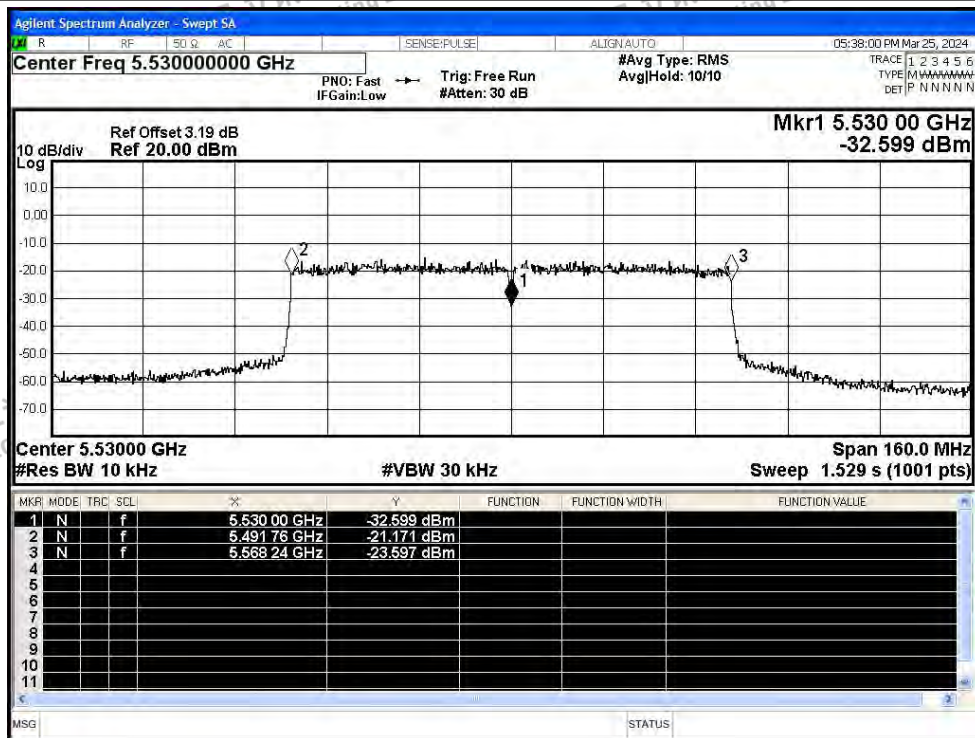


Freq. Stability NVNT ac40 5670MHz Ant1

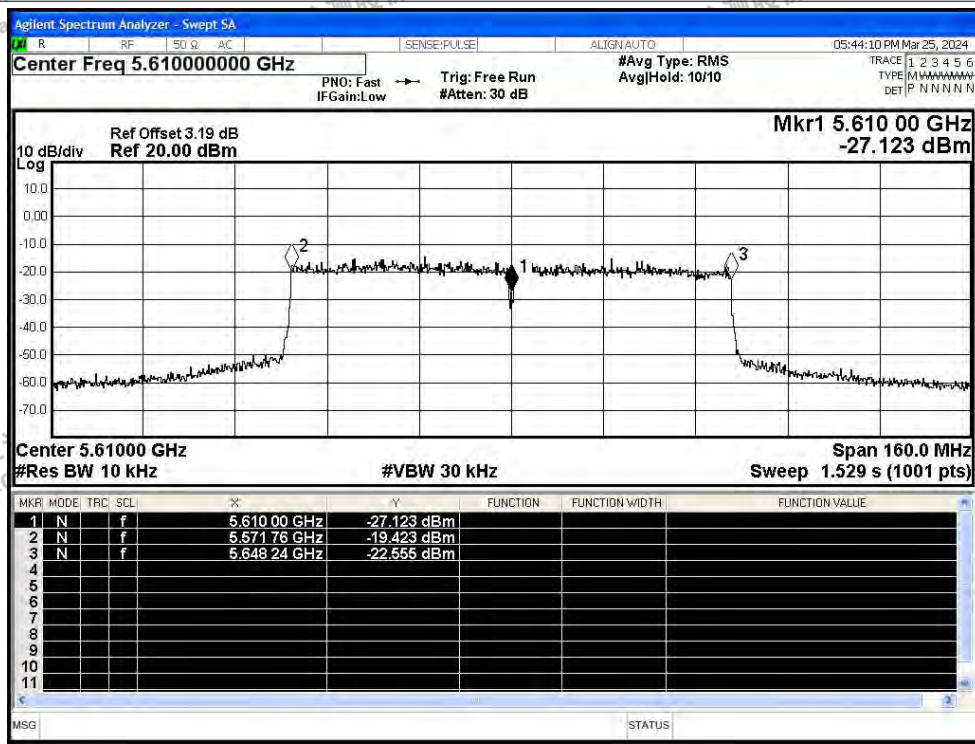




Freq. Stability NVNT ac80 5530MHz Ant1



Freq. Stability NVNT ac80 5610MHz Ant1





| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | ac20 | 5500            | Ant2    | 5500                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | 5579.96                  | -40000               | -7.17           | 25          | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 5699.96                  | -40000               | -7.02           | 25          | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | 5510                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | 5550                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | 5670                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | 5530                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | 5610                     | 0                    | 0               | 25          | Pass    |

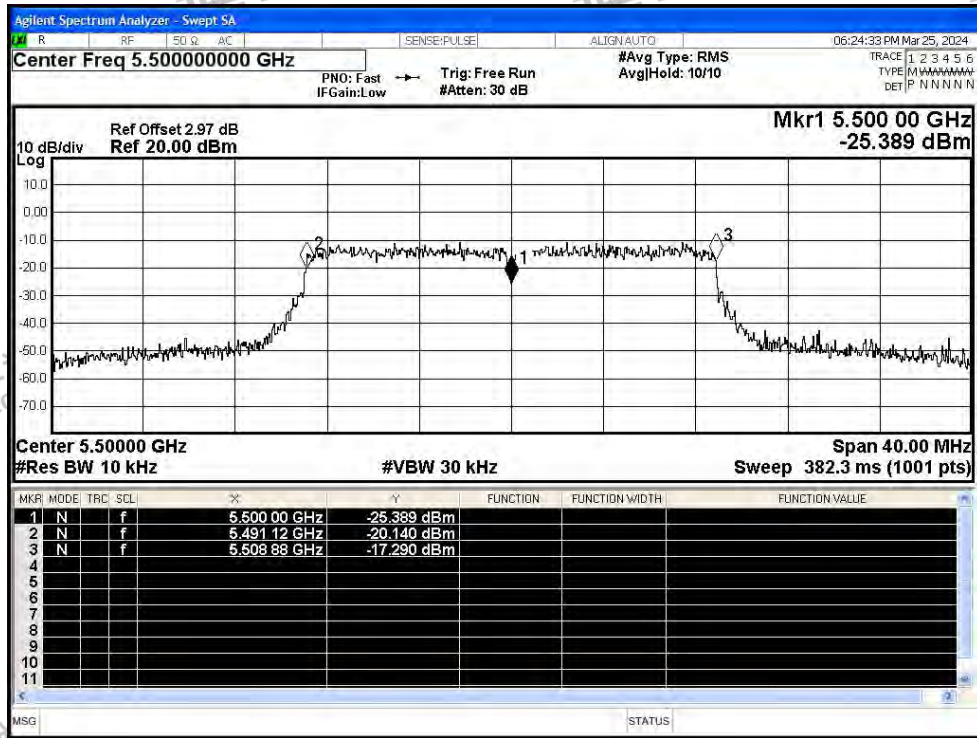


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

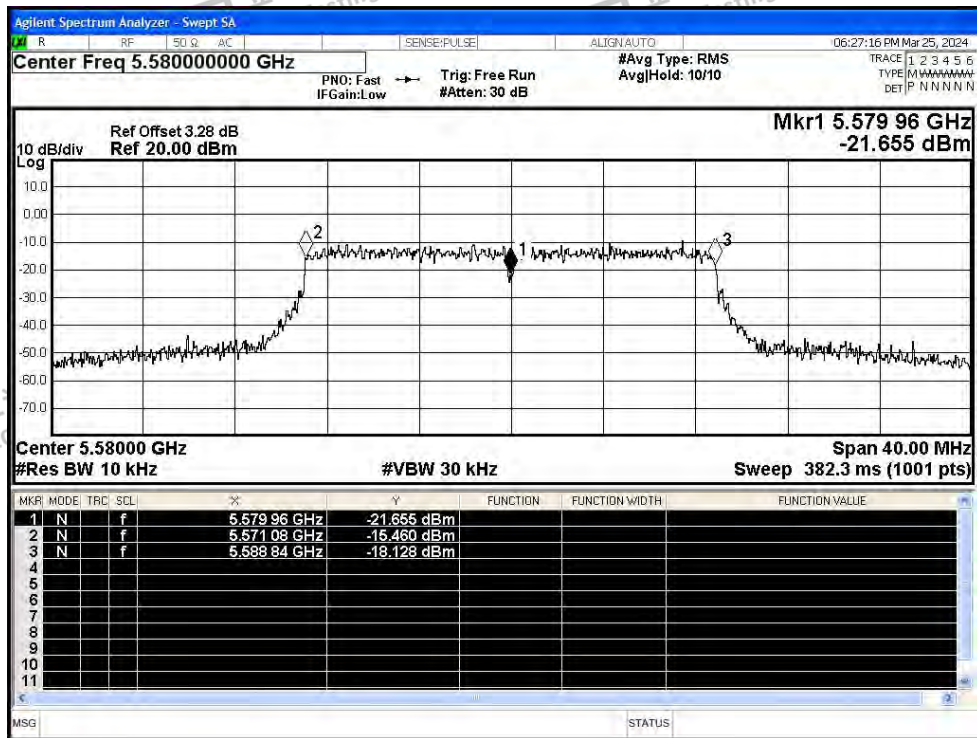


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant2



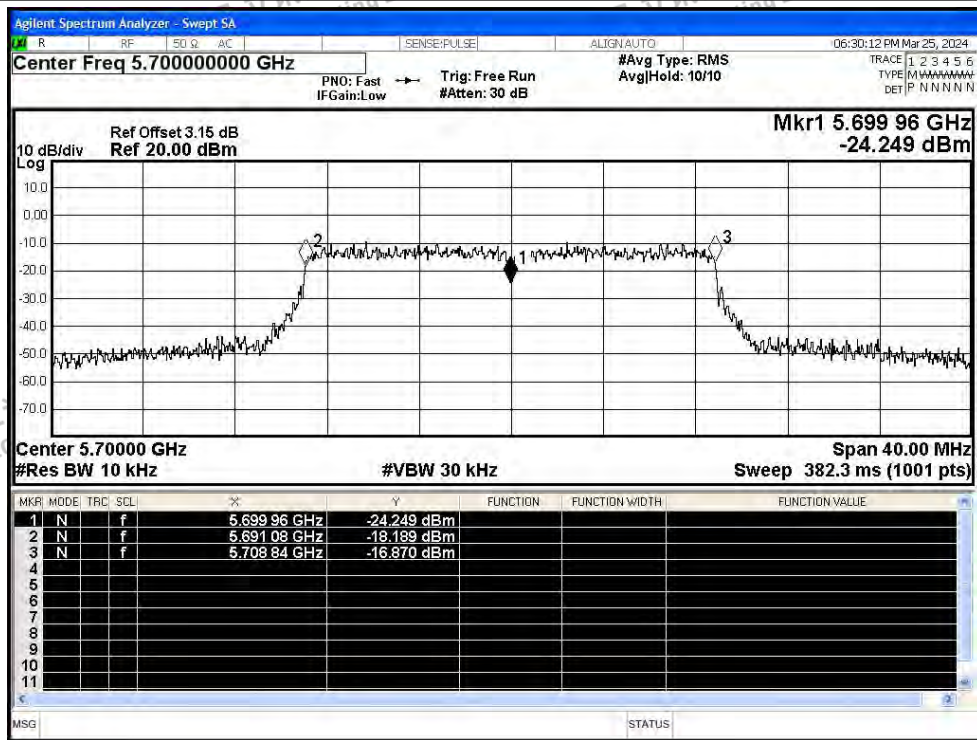
Freq. Stability NVNT ac20 5580MHz Ant2



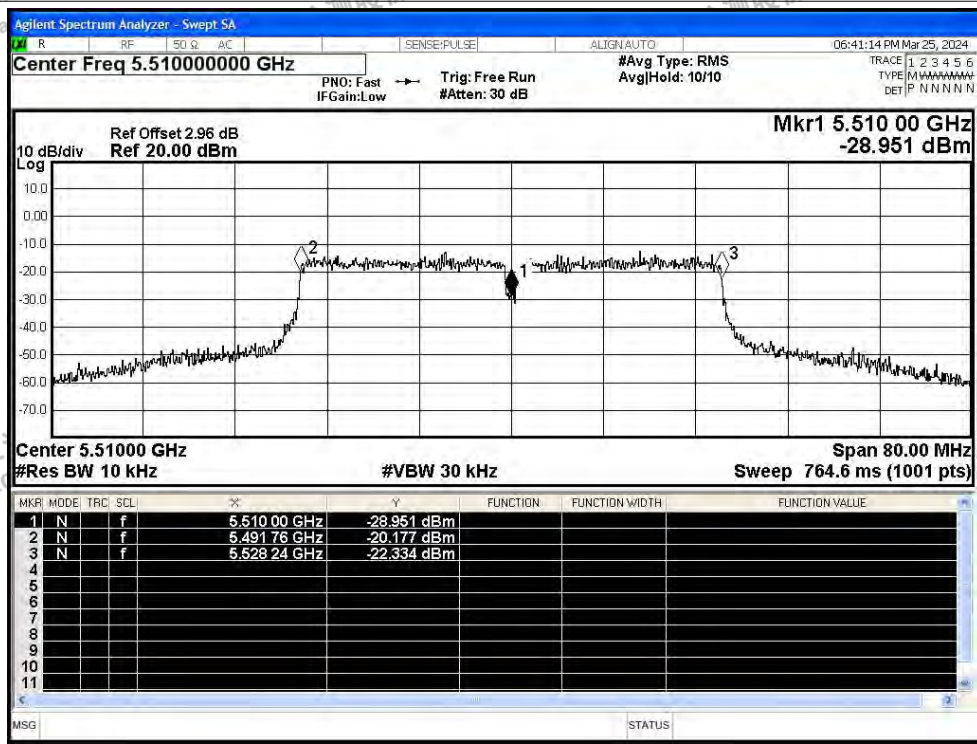




Freq. Stability NVNT ac20 5700MHz Ant2

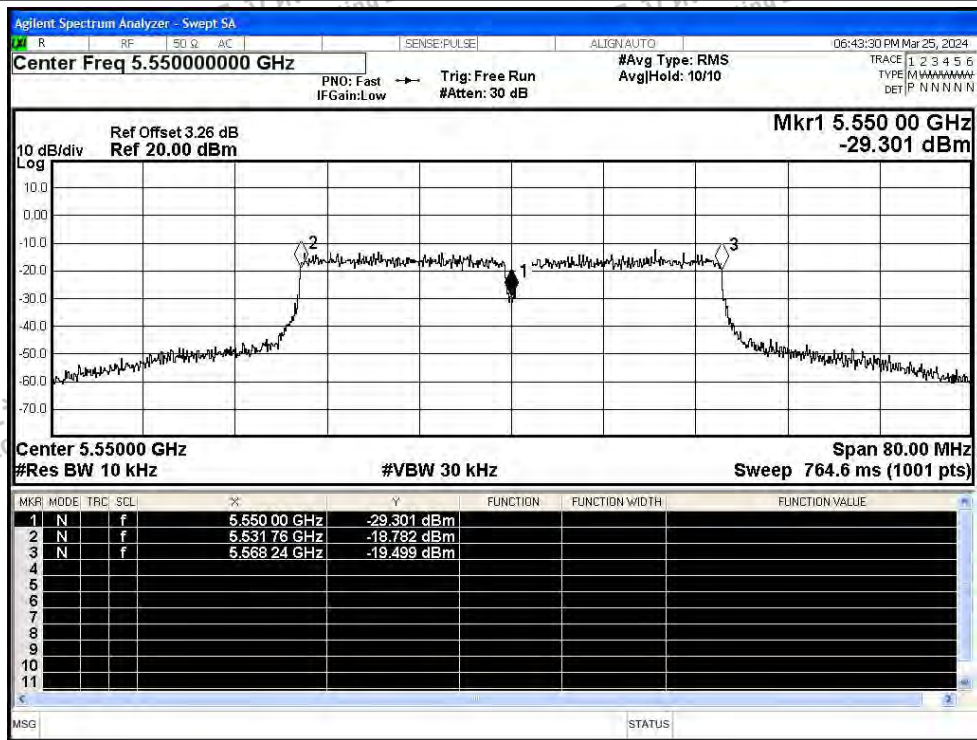


Freq. Stability NVNT ac40 5510MHz Ant2





Freq. Stability NVNT ac40 5550MHz Ant2



Freq. Stability NVNT ac40 5670MHz Ant2

