



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Laptop PC 16inch

Test Model: PN1606P

Environmental Conditions

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





D.1 -26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | a | 5180 | Ant1 | 18.364 | --- | Pass |
| NVNT | a | 5200 | Ant1 | 18.339 | --- | Pass |
| NVNT | a | 5240 | Ant1 | 18.412 | --- | Pass |
| NVNT | n20 | 5180 | Ant1 | 19.292 | --- | Pass |
| NVNT | n20 | 5200 | Ant1 | 19.131 | --- | Pass |
| NVNT | n20 | 5240 | Ant1 | 19.264 | --- | Pass |
| NVNT | n40 | 5190 | Ant1 | 41.196 | --- | Pass |
| NVNT | n40 | 5230 | Ant1 | 41.003 | --- | Pass |
| NVNT | ac20 | 5180 | Ant1 | 19.19 | --- | Pass |
| NVNT | ac20 | 5200 | Ant1 | 19.291 | --- | Pass |
| NVNT | ac20 | 5240 | Ant1 | 19.286 | --- | Pass |
| NVNT | ac40 | 5190 | Ant1 | 40.904 | --- | Pass |
| NVNT | ac40 | 5230 | Ant1 | 41.358 | --- | Pass |
| NVNT | ac80 | 5210 | Ant1 | 80.541 | --- | Pass |

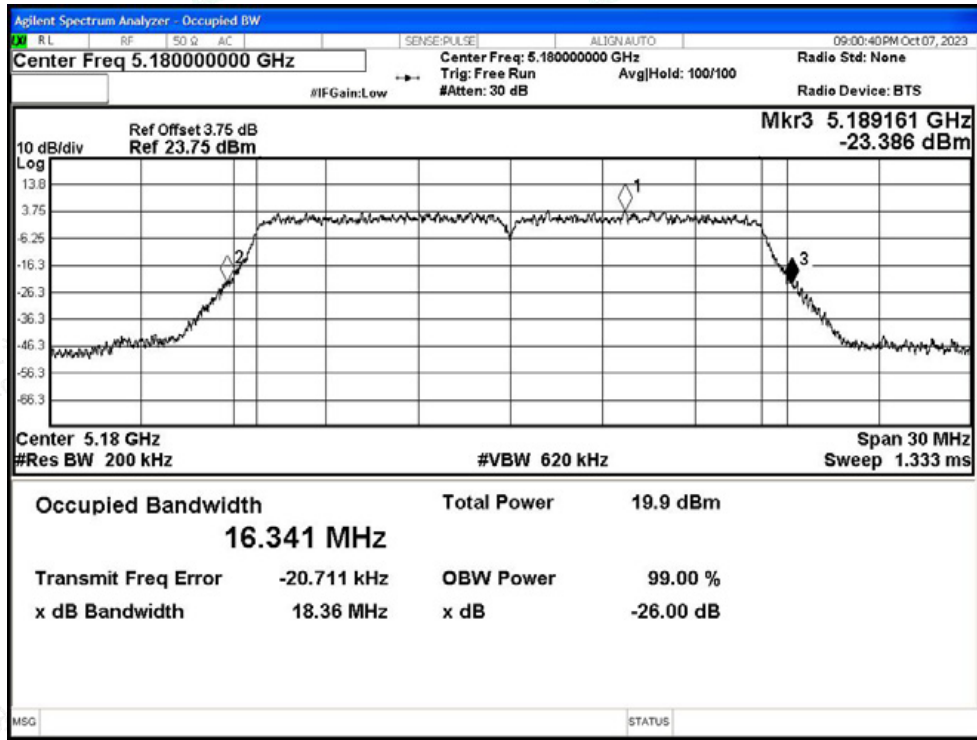


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

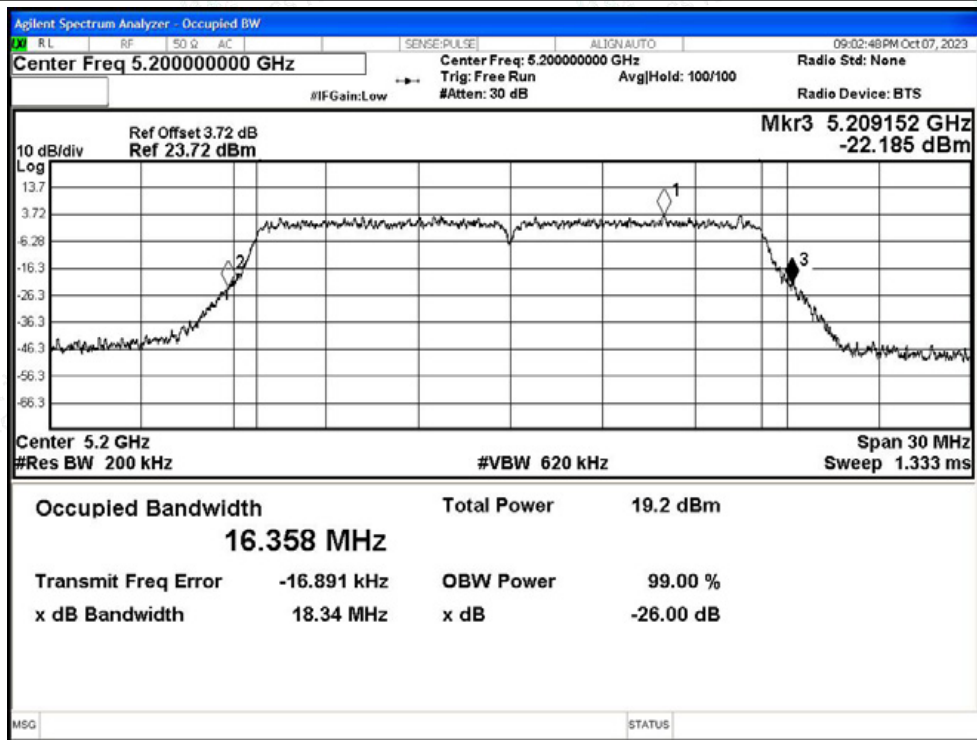


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

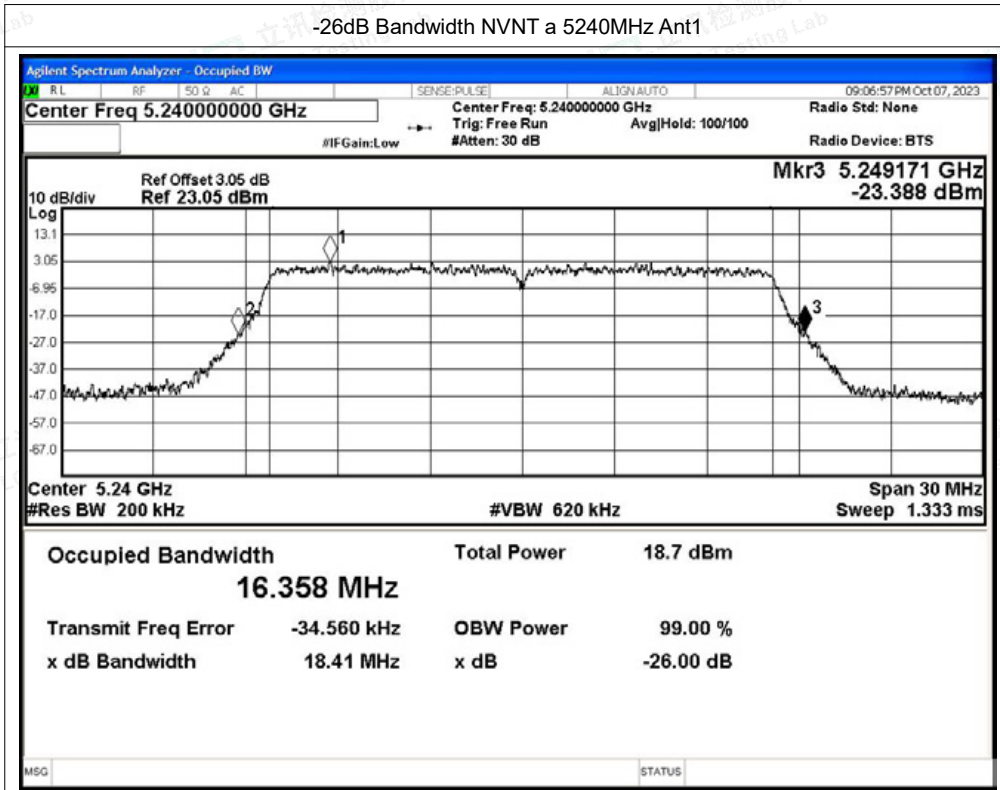


-26dB Bandwidth NVNT a 5200MHz Ant1





-26dB Bandwidth NVNT a 5240MHz Ant1

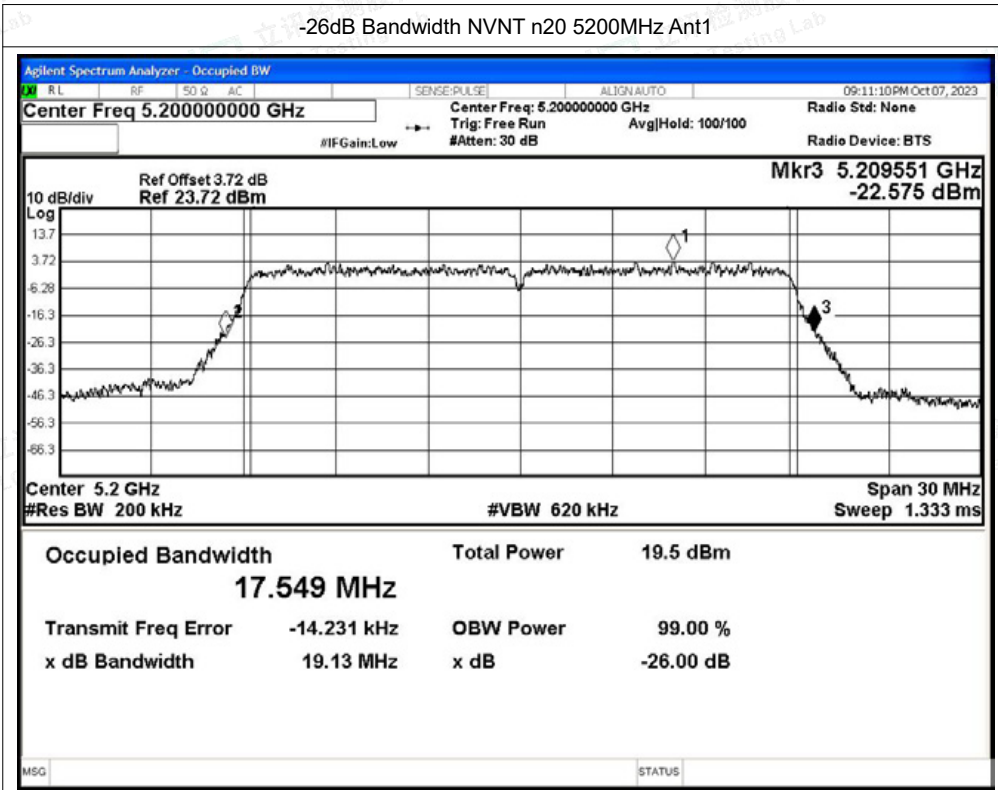


-26dB Bandwidth NVNT n20 5180MHz Ant1

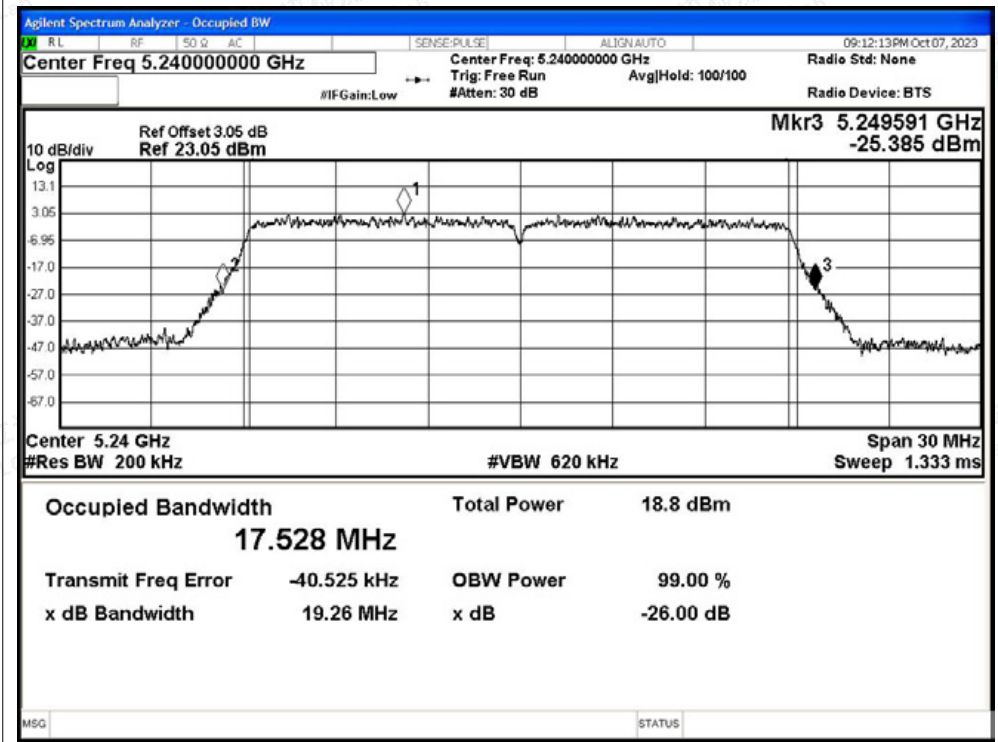




-26dB Bandwidth NVNT n20 5200MHz Ant1

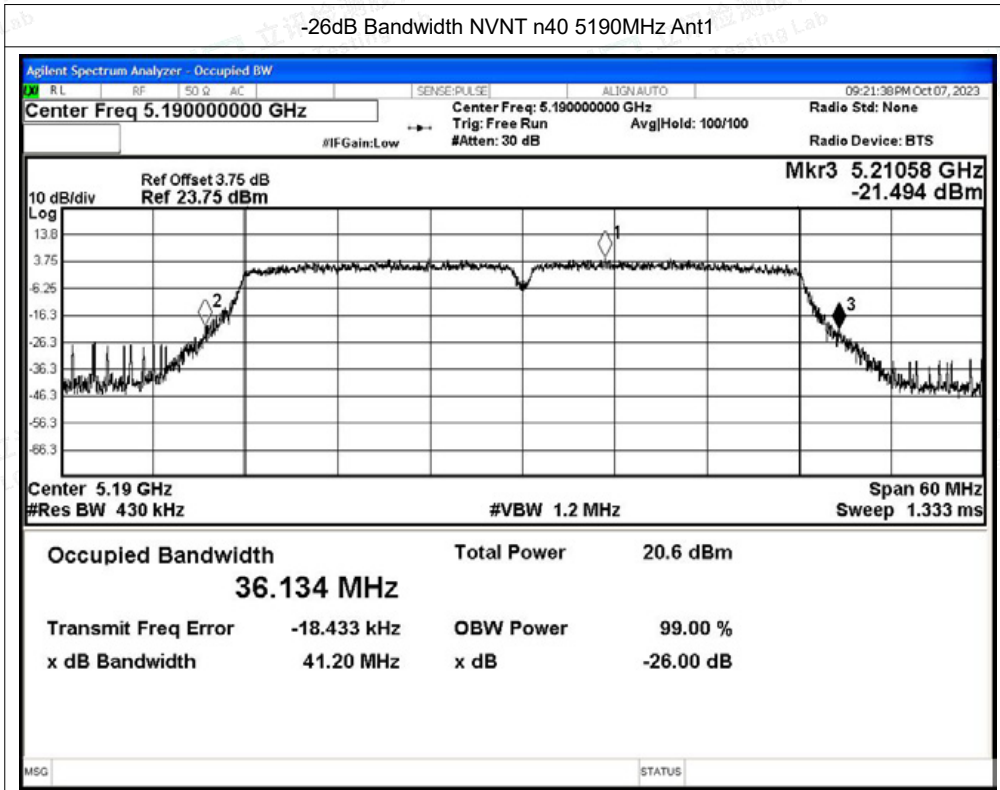


-26dB Bandwidth NVNT n20 5240MHz Ant1

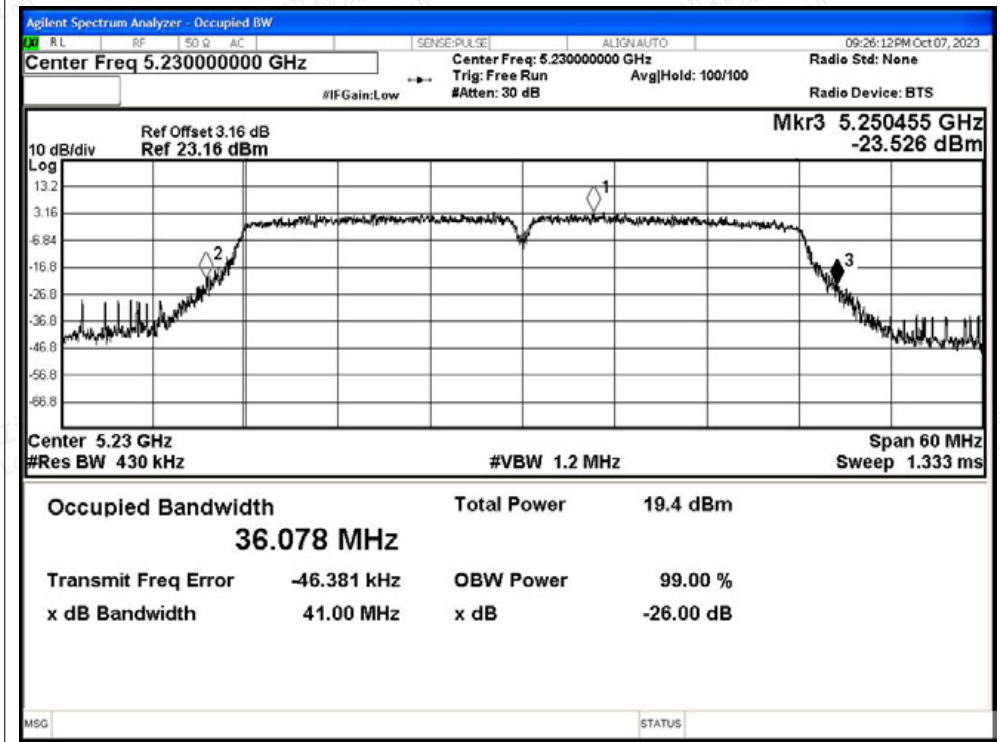




-26dB Bandwidth NVNT n40 5190MHz Ant1

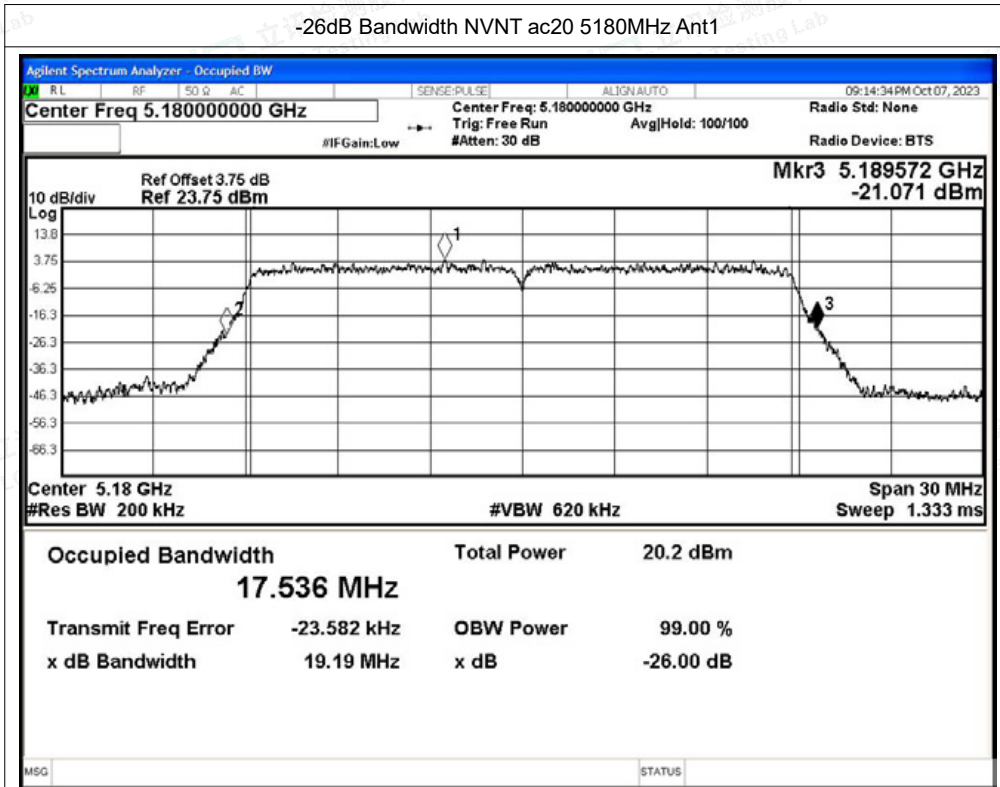


-26dB Bandwidth NVNT n40 5230MHz Ant1

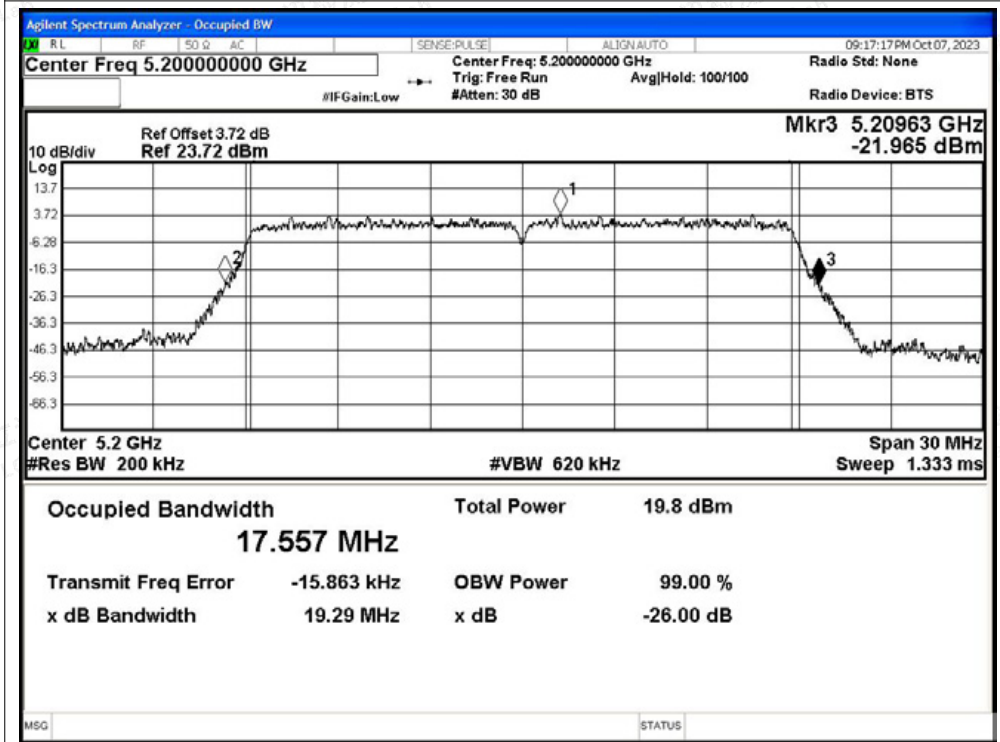




-26dB Bandwidth NVNT ac20 5180MHz Ant1

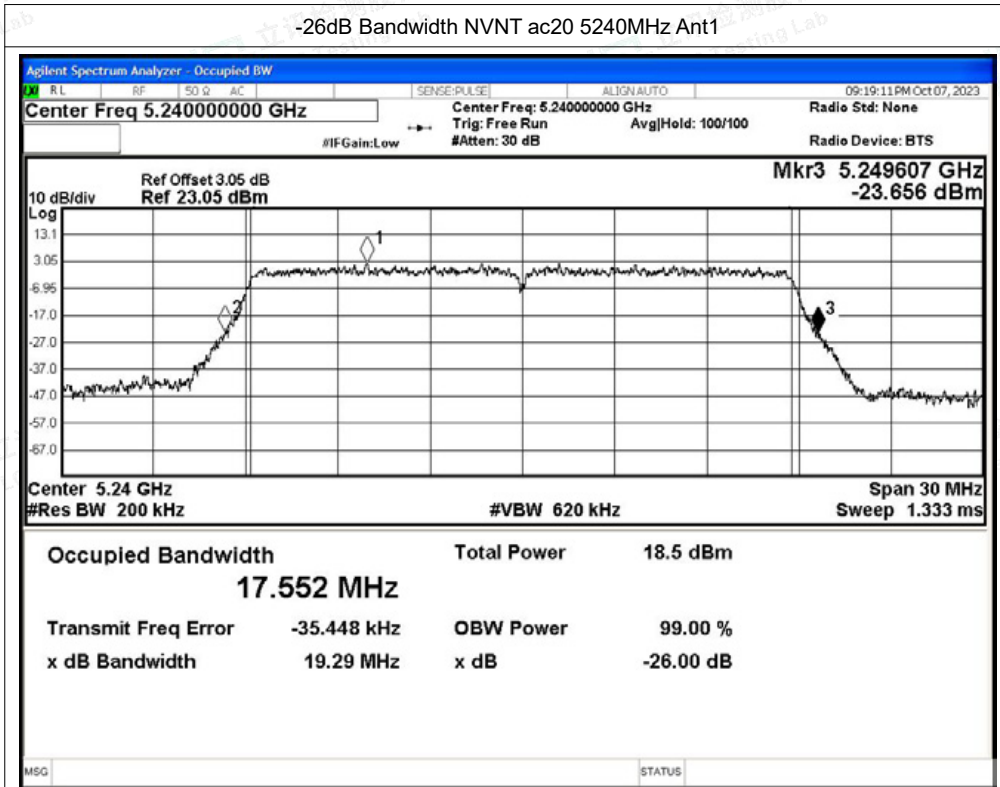


-26dB Bandwidth NVNT ac20 5200MHz Ant1

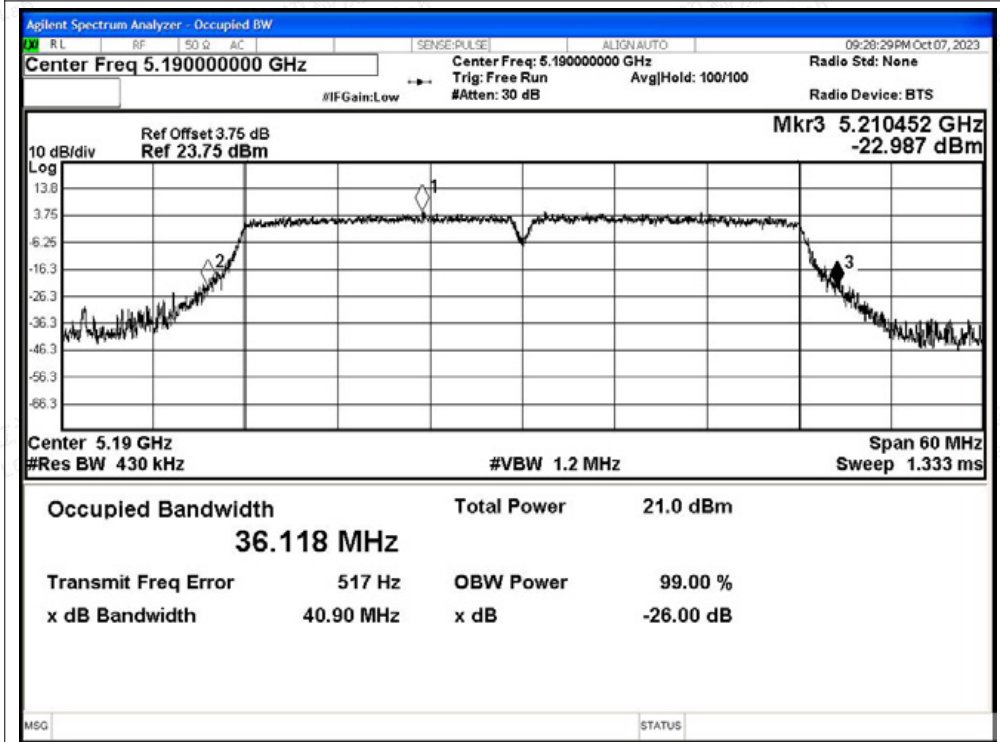




-26dB Bandwidth NVNT ac20 5240MHz Ant1

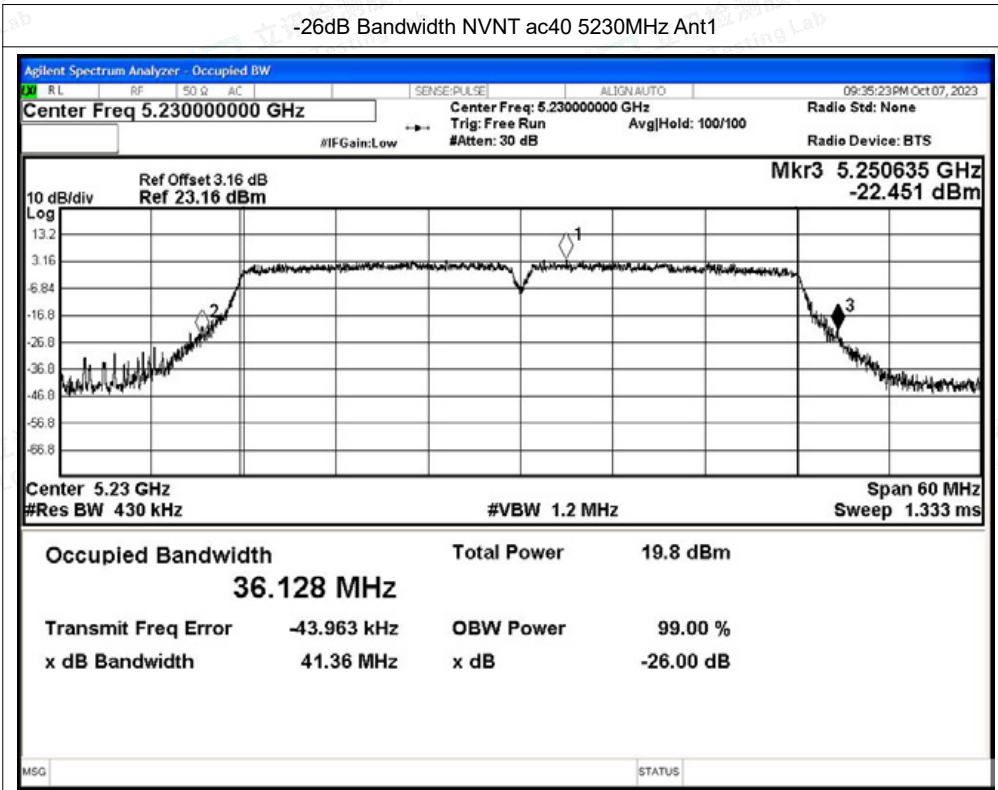


-26dB Bandwidth NVNT ac40 5190MHz Ant1

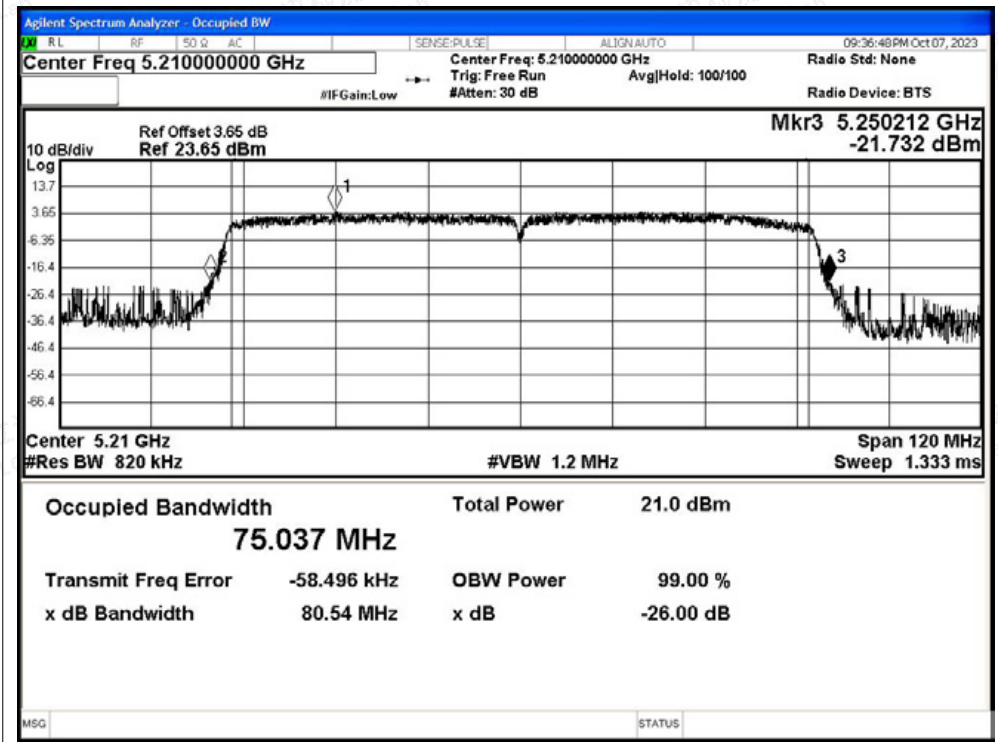




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | a | 5180 | Ant2 | 18.3 | --- | Pass |
| NVNT | a | 5200 | Ant2 | 18.42 | --- | Pass |
| NVNT | a | 5240 | Ant2 | 18.312 | --- | Pass |
| NVNT | n20 | 5180 | Ant2 | 19.194 | --- | Pass |
| NVNT | n20 | 5200 | Ant2 | 19.214 | --- | Pass |
| NVNT | n20 | 5240 | Ant2 | 19.271 | --- | Pass |
| NVNT | n40 | 5190 | Ant2 | 40.853 | --- | Pass |
| NVNT | n40 | 5230 | Ant2 | 40.7 | --- | Pass |
| NVNT | ac20 | 5180 | Ant2 | 19.143 | --- | Pass |
| NVNT | ac20 | 5200 | Ant2 | 19.338 | --- | Pass |
| NVNT | ac20 | 5240 | Ant2 | 19.218 | --- | Pass |
| NVNT | ac40 | 5190 | Ant2 | 40.705 | --- | Pass |
| NVNT | ac40 | 5230 | Ant2 | 40.818 | --- | Pass |
| NVNT | ac80 | 5210 | Ant2 | 81.328 | --- | Pass |

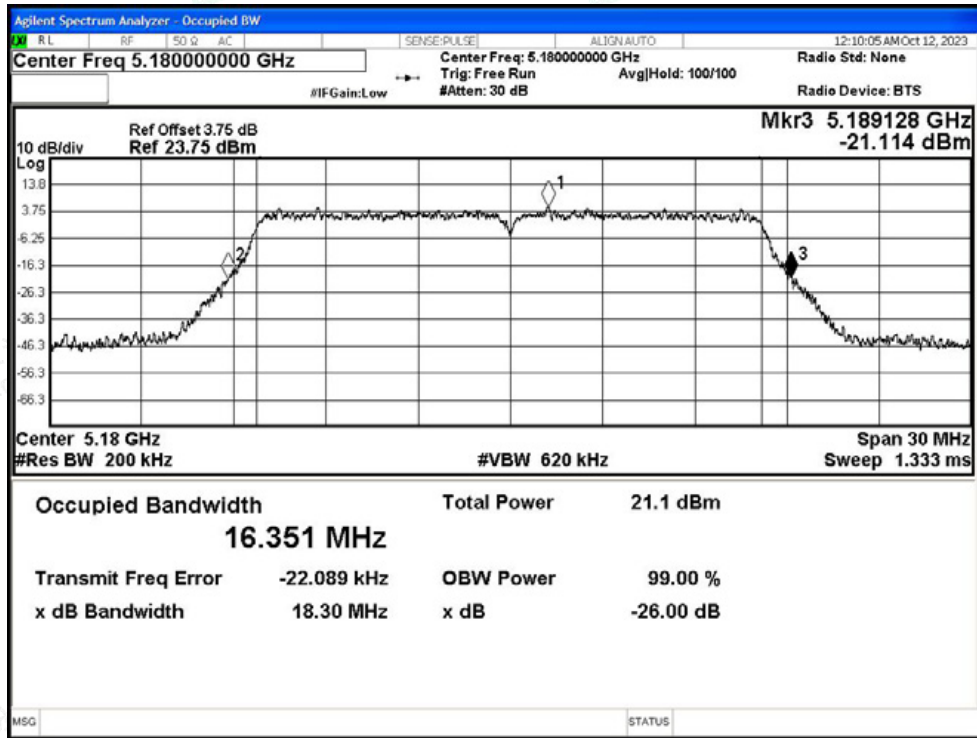


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

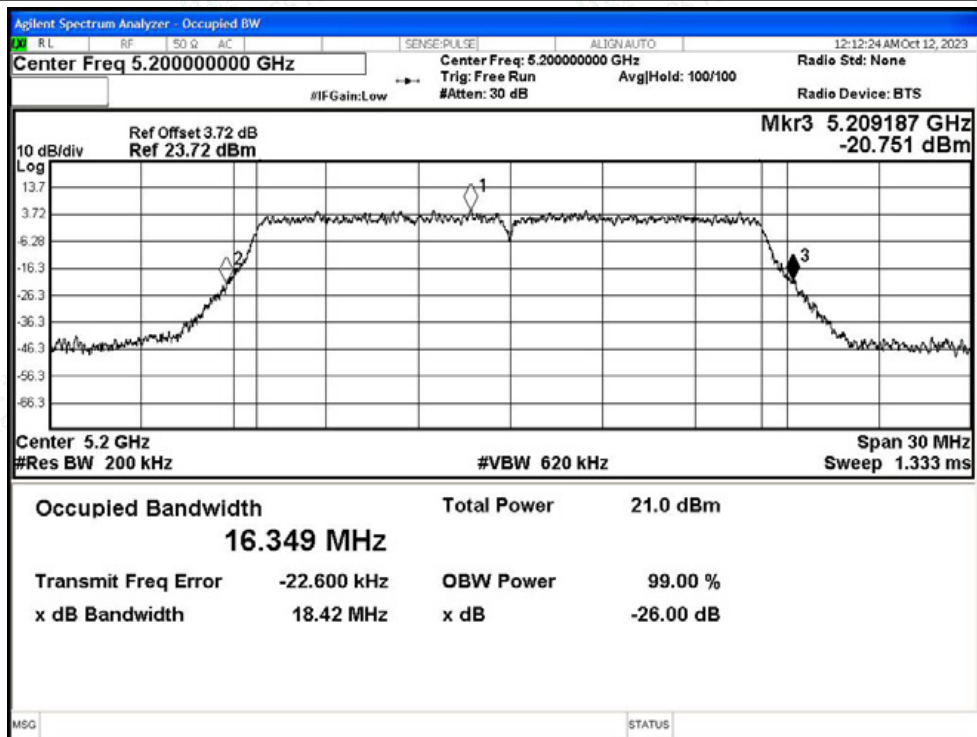


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2

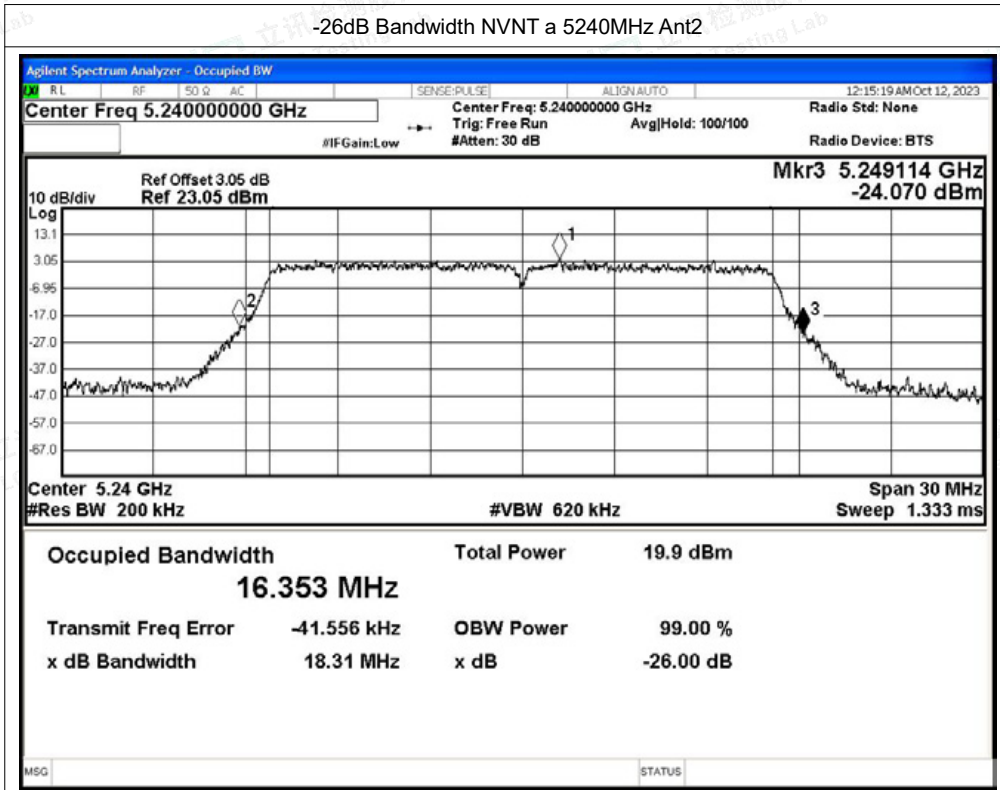


-26dB Bandwidth NVNT a 5200MHz Ant2





-26dB Bandwidth NVNT a 5240MHz Ant2

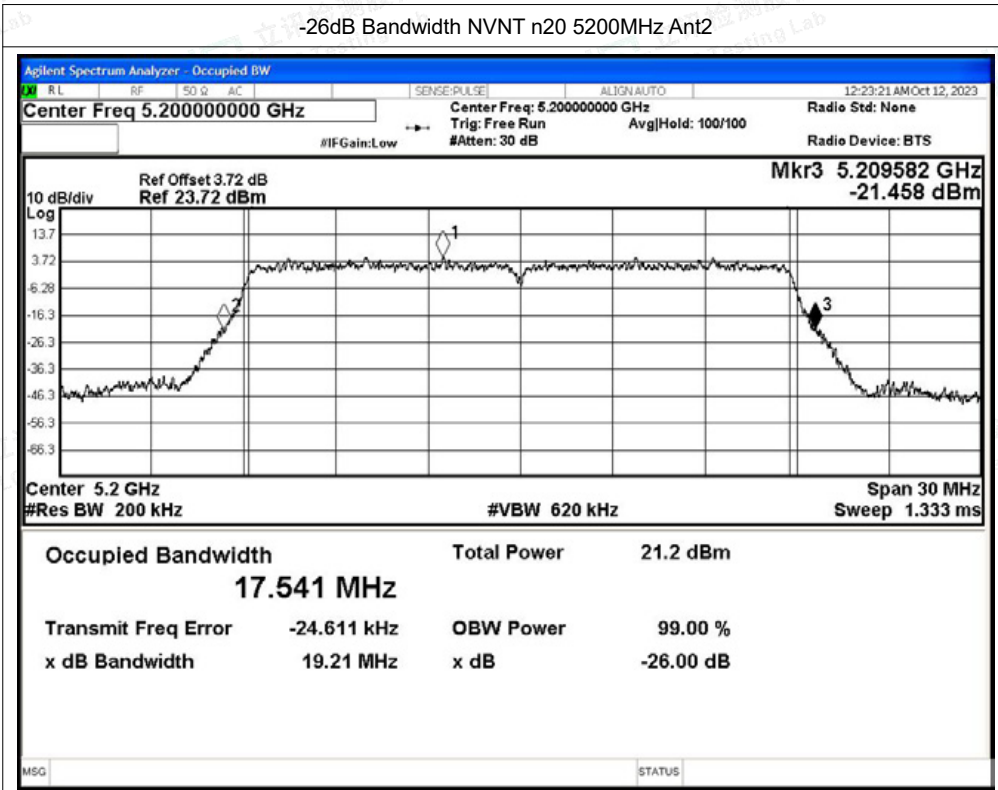


-26dB Bandwidth NVNT n20 5180MHz Ant2

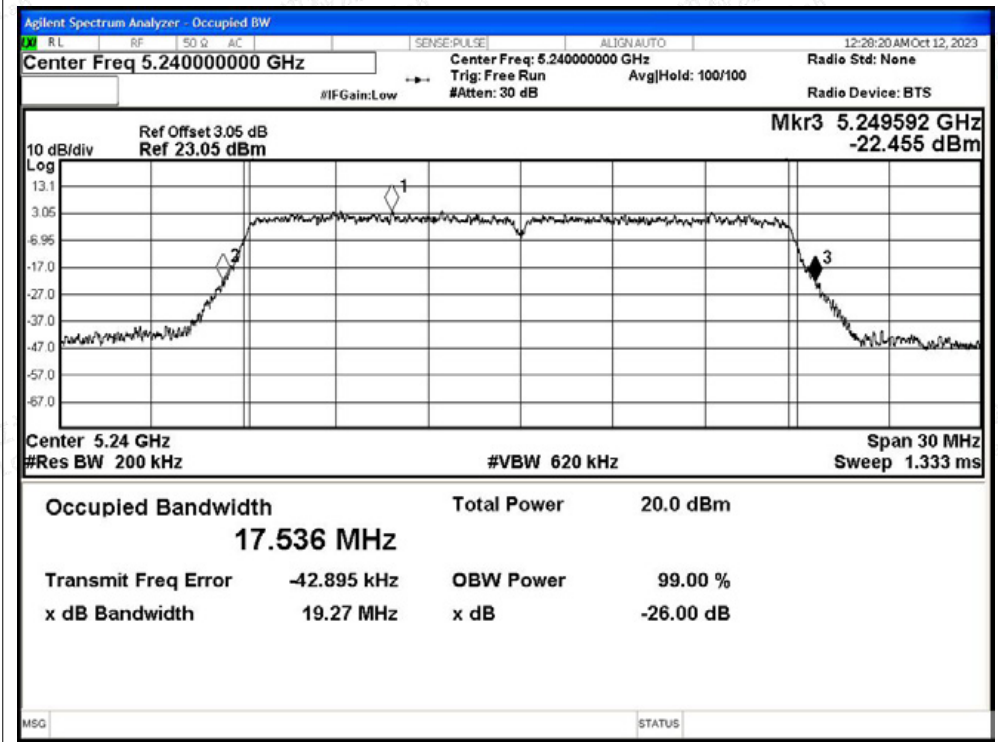




-26dB Bandwidth NVNT n20 5200MHz Ant2

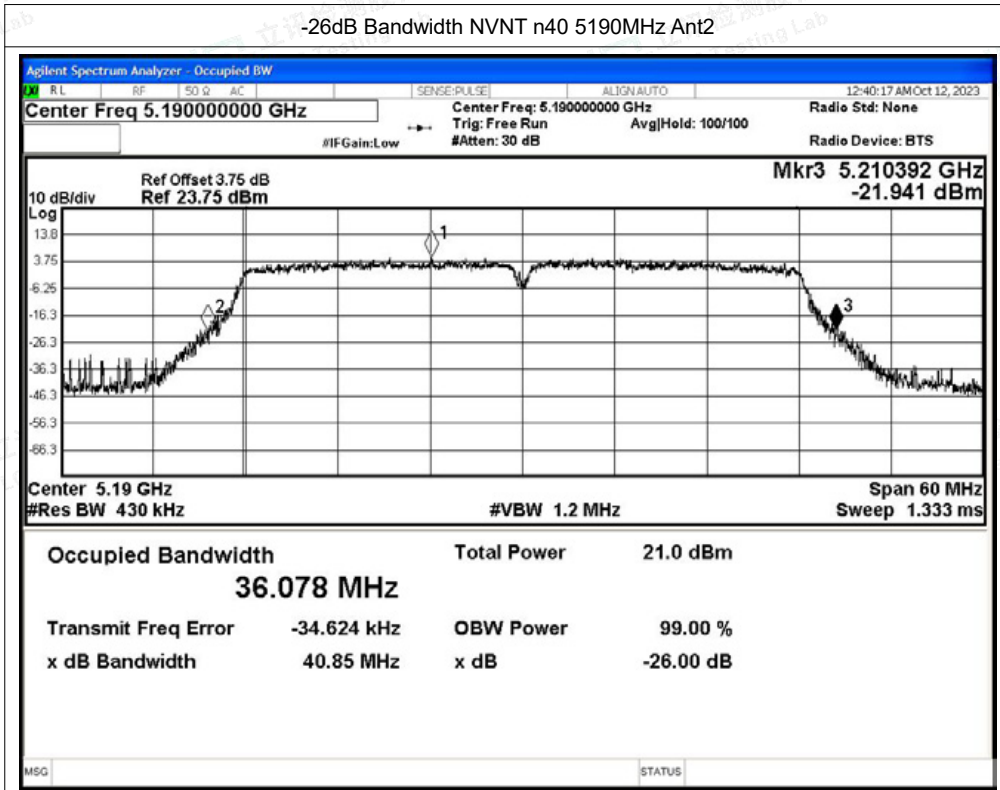


-26dB Bandwidth NVNT n20 5240MHz Ant2

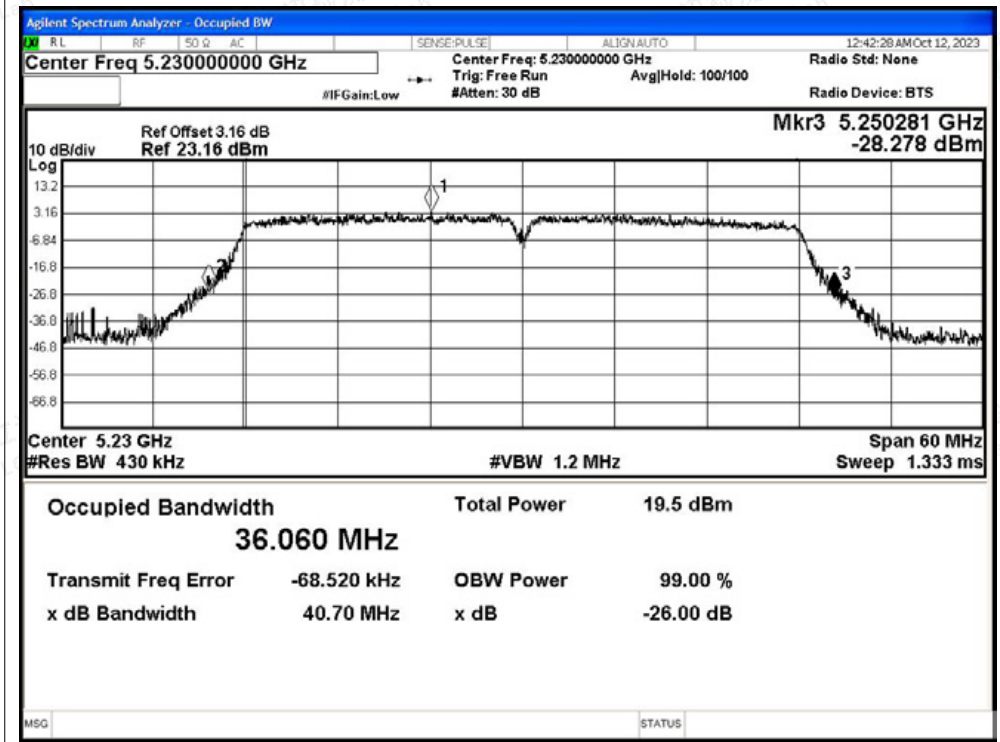




-26dB Bandwidth NVNT n40 5190MHz Ant2

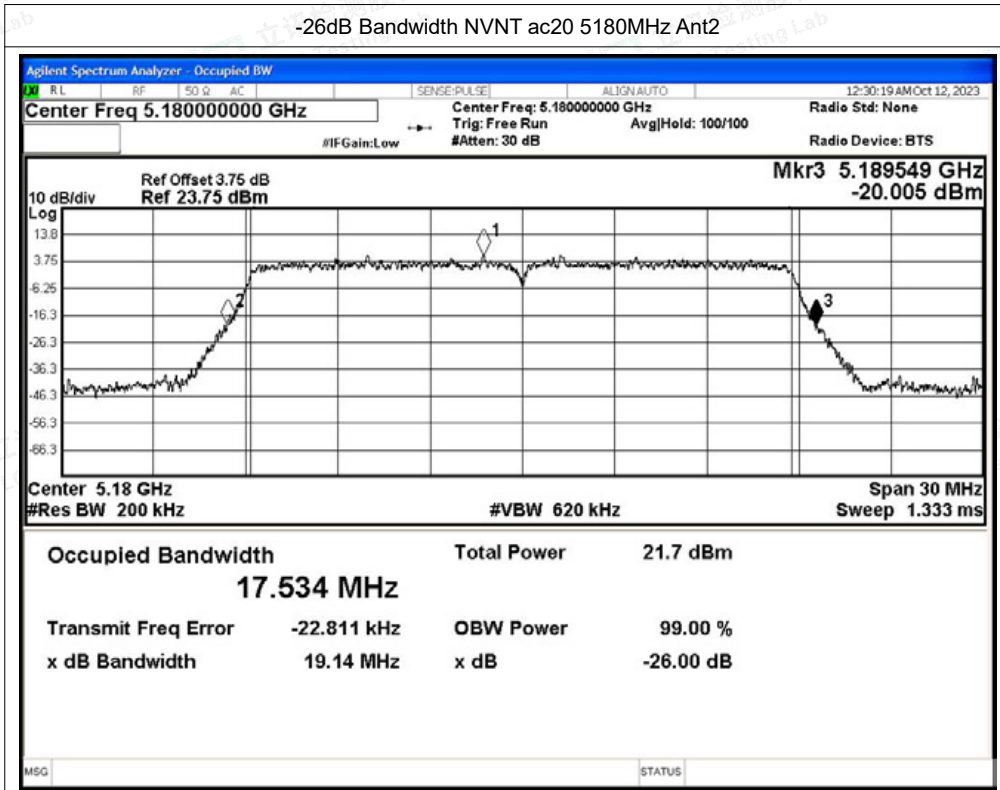


-26dB Bandwidth NVNT n40 5230MHz Ant2

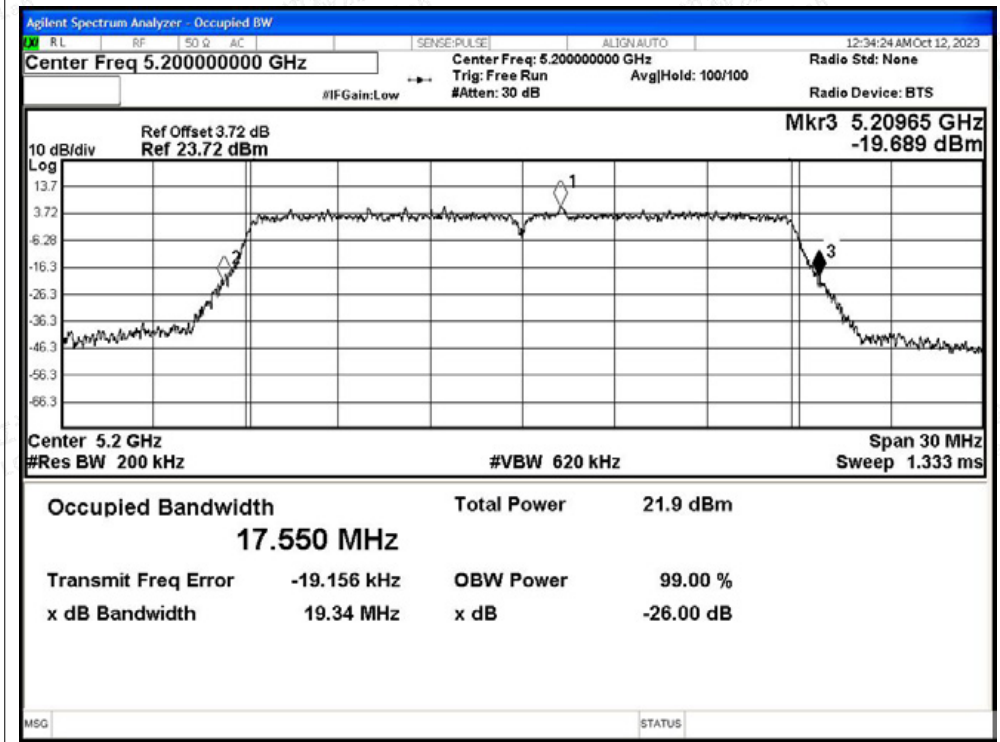




-26dB Bandwidth NVNT ac20 5180MHz Ant2

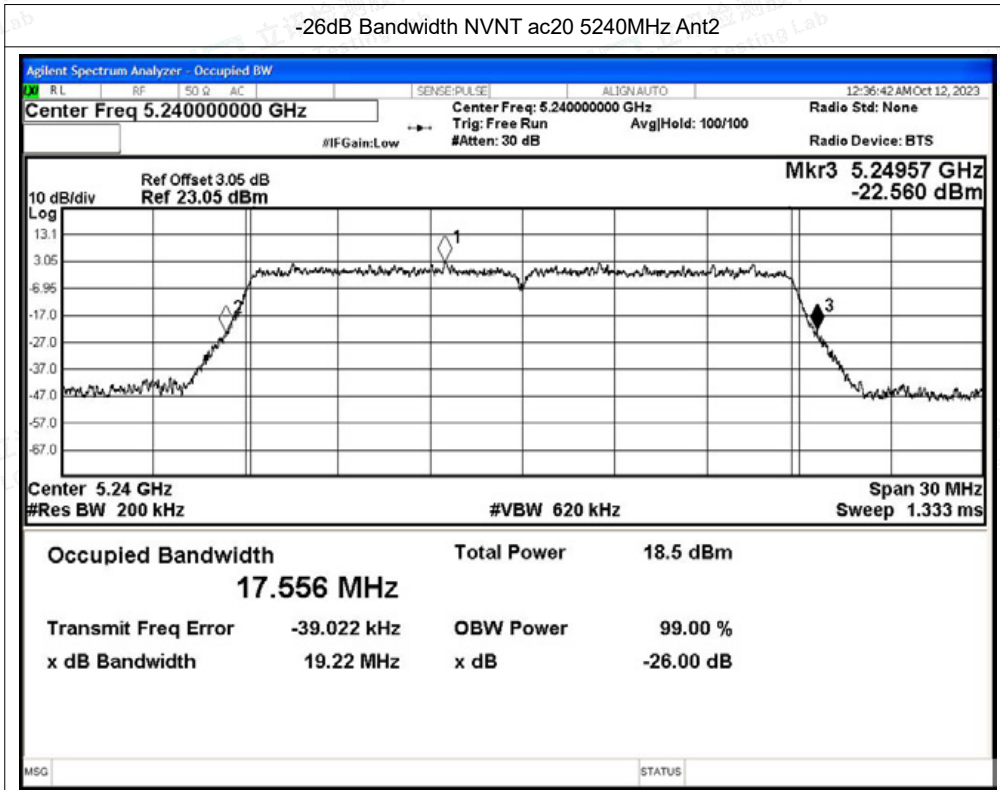


-26dB Bandwidth NVNT ac20 5200MHz Ant2

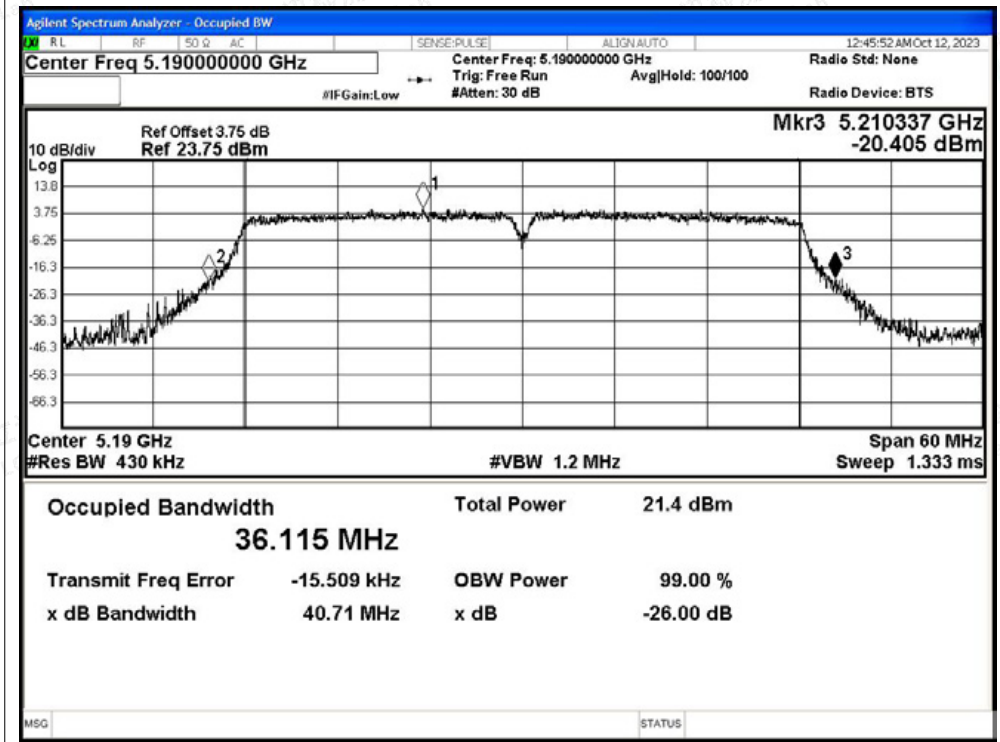




-26dB Bandwidth NVNT ac20 5240MHz Ant2

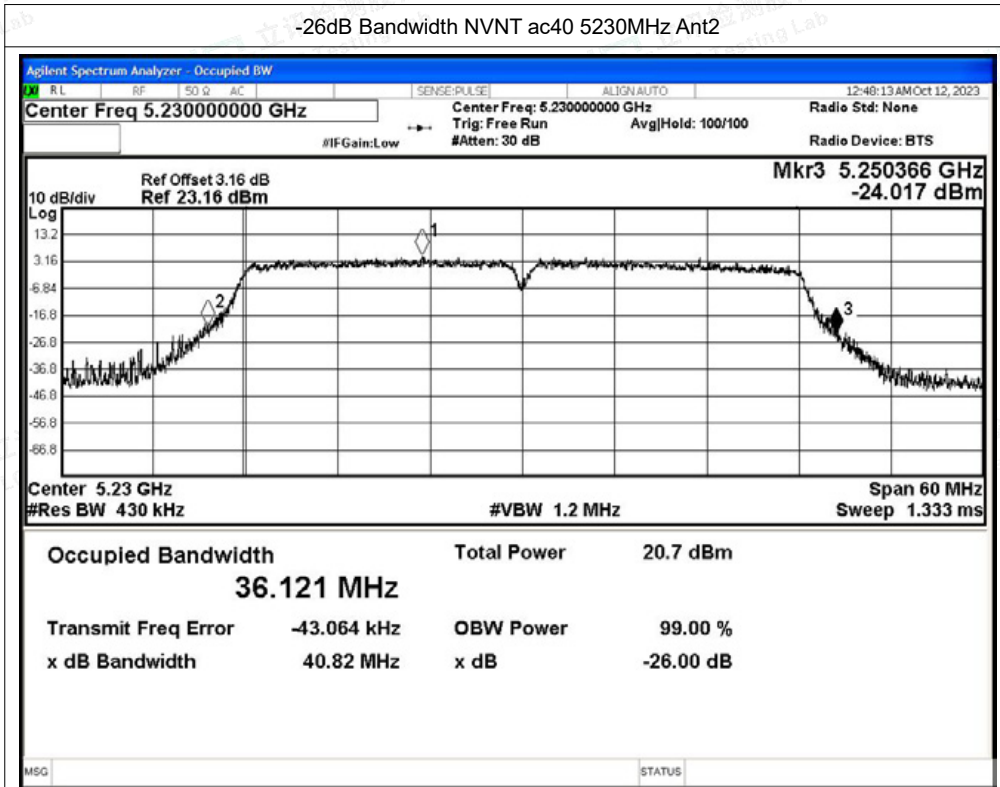


-26dB Bandwidth NVNT ac40 5190MHz Ant2

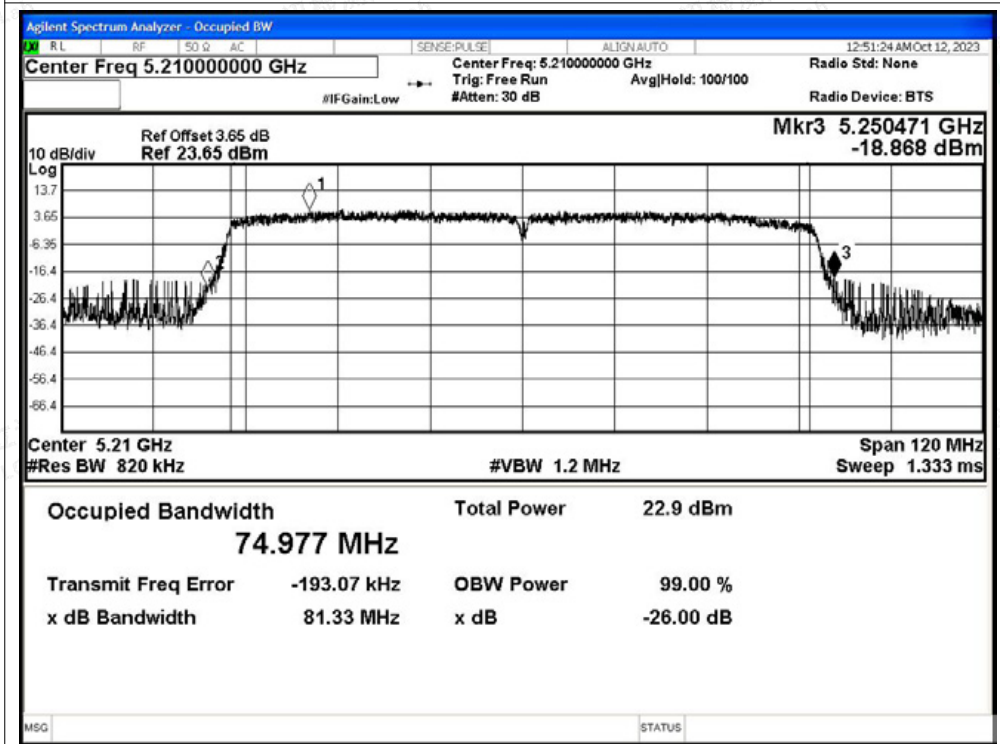




-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2





D.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT | a | 5180 | Ant1 | 13.09 | 1.36 | 14.45 | 24 | Pass |
| NVNT | a | 5200 | Ant1 | 12.63 | 1.36 | 13.99 | 24 | Pass |
| NVNT | a | 5240 | Ant1 | 12.34 | 1.36 | 13.7 | 24 | Pass |
| NVNT | n20 | 5180 | Ant1 | 13.79 | 1.44 | 15.23 | 24 | Pass |
| NVNT | n20 | 5200 | Ant1 | 12.78 | 1.44 | 14.22 | 24 | Pass |
| NVNT | n20 | 5240 | Ant1 | 11.86 | 1.44 | 13.3 | 24 | Pass |
| NVNT | n40 | 5190 | Ant1 | 12.56 | 2.54 | 15.1 | 24 | Pass |
| NVNT | n40 | 5230 | Ant1 | 11.94 | 2.54 | 14.48 | 24 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 13.4 | 1.43 | 14.83 | 24 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 12.7 | 1.44 | 14.14 | 24 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 11.81 | 1.44 | 13.25 | 24 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 13.71 | 2.52 | 16.23 | 24 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 11.83 | 2.52 | 14.35 | 24 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 11.61 | 4.12 | 15.73 | 24 | Pass |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT | a | 5180 | Ant2 | 14.19 | 1.36 | 15.55 | 24 | Pass |
| NVNT | a | 5200 | Ant2 | 14.03 | 1.36 | 15.39 | 24 | Pass |
| NVNT | a | 5240 | Ant2 | 13.52 | 1.36 | 14.88 | 24 | Pass |
| NVNT | n20 | 5180 | Ant2 | 14.53 | 1.44 | 15.97 | 24 | Pass |
| NVNT | n20 | 5200 | Ant2 | 14.51 | 1.44 | 15.95 | 24 | Pass |
| NVNT | n20 | 5240 | Ant2 | 13.53 | 1.44 | 14.97 | 24 | Pass |
| NVNT | n40 | 5190 | Ant2 | 13.51 | 2.53 | 16.04 | 24 | Pass |
| NVNT | n40 | 5230 | Ant2 | 12.13 | 2.53 | 14.66 | 24 | Pass |
| NVNT | ac20 | 5180 | Ant2 | 15 | 1.44 | 16.44 | 24 | Pass |
| NVNT | ac20 | 5200 | Ant2 | 15.54 | 1.44 | 16.98 | 24 | Pass |
| NVNT | ac20 | 5240 | Ant2 | 11.97 | 1.44 | 13.41 | 24 | Pass |
| NVNT | ac40 | 5190 | Ant2 | 13.42 | 2.52 | 15.94 | 24 | Pass |
| NVNT | ac40 | 5230 | Ant2 | 12.65 | 2.52 | 15.17 | 24 | Pass |
| NVNT | ac80 | 5210 | Ant2 | 13.22 | 4.11 | 17.33 | 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 | 5180 | 15.23 | 15.97 | 18.63 | 24 | Pass |
| NVNT | n20 | 5200 | 14.22 | 15.95 | 18.18 | 24 | Pass |
| NVNT | n20 | 5240 | 13.3 | 14.97 | 17.23 | 24 | Pass |
| NVNT | n40 | 5190 | 15.1 | 16.04 | 18.61 | 24 | Pass |
| NVNT | n40 | 5230 | 14.48 | 14.66 | 17.58 | 24 | Pass |
| NVNT | ac20 | 5180 | 14.83 | 16.44 | 18.72 | 24 | Pass |
| NVNT | ac20 | 5200 | 14.14 | 16.98 | 18.80 | 24 | Pass |
| NVNT | ac20 | 5240 | 13.25 | 13.41 | 16.34 | 24 | Pass |
| NVNT | ac40 | 5190 | 16.23 | 15.94 | 19.10 | 24 | Pass |
| NVNT | ac40 | 5230 | 14.35 | 15.17 | 17.79 | 24 | Pass |
| NVNT | ac80 | 5210 | 15.73 | 17.33 | 19.61 | 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



D.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT | a | 5180 | Ant1 | 2.86 | 1.36 | 4.22 | 11 | Pass |
| NVNT | a | 5200 | Ant1 | 1.98 | 1.36 | 3.34 | 11 | Pass |
| NVNT | a | 5240 | Ant1 | 1.96 | 1.36 | 3.32 | 11 | Pass |
| NVNT | n20 | 5180 | Ant1 | 2.44 | 1.44 | 3.88 | 11 | Pass |
| NVNT | n20 | 5200 | Ant1 | 2.36 | 1.44 | 3.8 | 11 | Pass |
| NVNT | n20 | 5240 | Ant1 | 1.41 | 1.44 | 2.85 | 11 | Pass |
| NVNT | n40 | 5190 | Ant1 | -0.23 | 2.54 | 2.31 | 11 | Pass |
| NVNT | n40 | 5230 | Ant1 | -1.43 | 2.54 | 1.11 | 11 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 2.8 | 1.43 | 4.23 | 11 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 2.24 | 1.44 | 3.68 | 11 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 1.13 | 1.44 | 2.57 | 11 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 0.17 | 2.52 | 2.69 | 11 | Pass |
| NVNT | ac40 | 5230 | Ant1 | -0.92 | 2.52 | 1.6 | 11 | Pass |
| NVNT | ac80 | 5210 | Ant1 | -4.22 | 4.12 | 0.1 | 11 | Pass |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT | a | 5180 | Ant2 | 3.76 | 1.36 | 5.12 | 11 | Pass |
| NVNT | a | 5200 | Ant2 | 3.72 | 1.36 | 5.08 | 11 | Pass |
| NVNT | a | 5240 | Ant2 | 3.21 | 1.36 | 4.57 | 11 | Pass |
| NVNT | n20 | 5180 | Ant2 | 3.87 | 1.44 | 5.31 | 11 | Pass |
| NVNT | n20 | 5200 | Ant2 | 3.47 | 1.44 | 4.91 | 11 | Pass |
| NVNT | n20 | 5240 | Ant2 | 2.61 | 1.44 | 4.05 | 11 | Pass |
| NVNT | n40 | 5190 | Ant2 | 0.54 | 2.53 | 3.07 | 11 | Pass |
| NVNT | n40 | 5230 | Ant2 | -1.54 | 2.53 | 0.99 | 11 | Pass |
| NVNT | ac20 | 5180 | Ant2 | 4.37 | 1.44 | 5.81 | 11 | Pass |
| NVNT | ac20 | 5200 | Ant2 | 4.43 | 1.44 | 5.87 | 11 | Pass |
| NVNT | ac20 | 5240 | Ant2 | 1.35 | 1.44 | 2.79 | 11 | Pass |
| NVNT | ac40 | 5190 | Ant2 | 0.29 | 2.52 | 2.81 | 11 | Pass |
| NVNT | ac40 | 5230 | Ant2 | 0.64 | 2.52 | 3.16 | 11 | Pass |
| NVNT | ac80 | 5210 | Ant2 | -2.65 | 4.11 | 1.46 | 11 | Pass |





MIMO

| Condition | Mode | Frequency (MHz) | Total PSD (dBm/MHz) | | | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------------------|------|-----------|-----------------|---------|
| | | | Ant1 | Ant2 | Ant1+Ant2 | | |
| NVNT | n20 | 5180 | 3.88 | 5.31 | 7.66 | 11 | Pass |
| NVNT | n20 | 5200 | 3.8 | 4.91 | 7.40 | 11 | Pass |
| NVNT | n20 | 5240 | 2.85 | 4.05 | 6.50 | 11 | Pass |
| NVNT | n40 | 5190 | 2.31 | 3.07 | 5.72 | 11 | Pass |
| NVNT | n40 | 5230 | 1.11 | 0.99 | 4.06 | 11 | Pass |
| NVNT | ac20 | 5180 | 4.23 | 5.81 | 8.10 | 11 | Pass |
| NVNT | ac20 | 5200 | 3.68 | 5.87 | 7.92 | 11 | Pass |
| NVNT | ac20 | 5240 | 2.57 | 2.79 | 5.69 | 11 | Pass |
| NVNT | ac40 | 5190 | 2.69 | 2.81 | 5.76 | 11 | Pass |
| NVNT | ac40 | 5230 | 1.6 | 3.16 | 5.46 | 11 | Pass |
| NVNT | ac80 | 5210 | 0.1 | 1.46 | 3.84 | 11 | Pass |

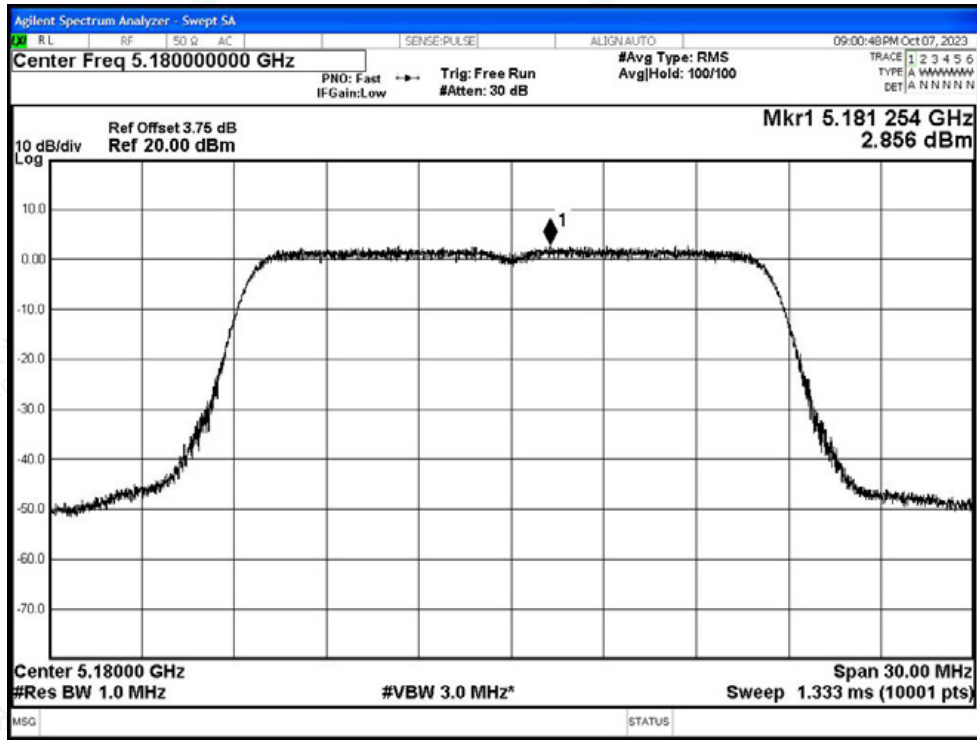


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

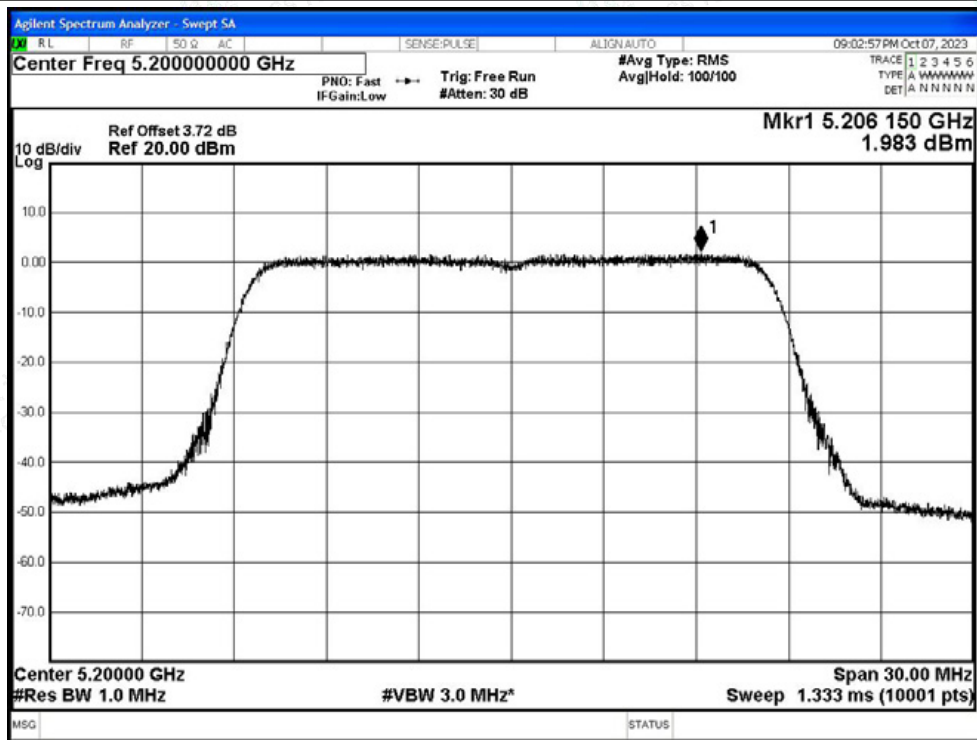


Test Graphs

PSD NVNT a 5180MHz Ant1

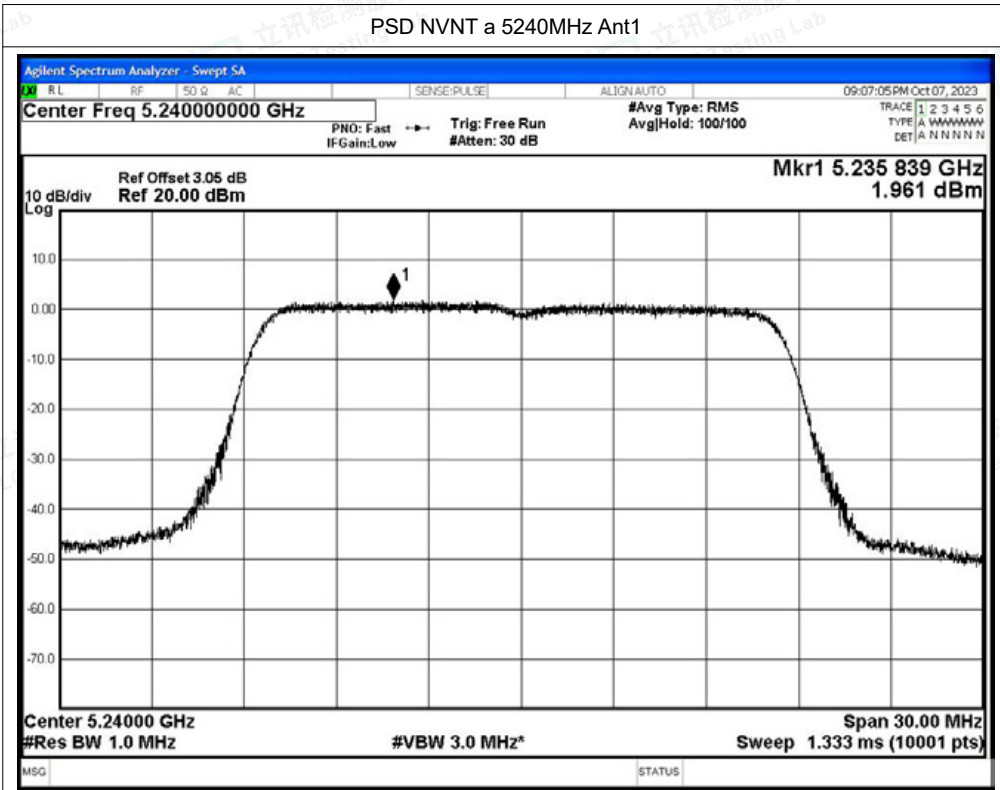


PSD NVNT a 5200MHz Ant1

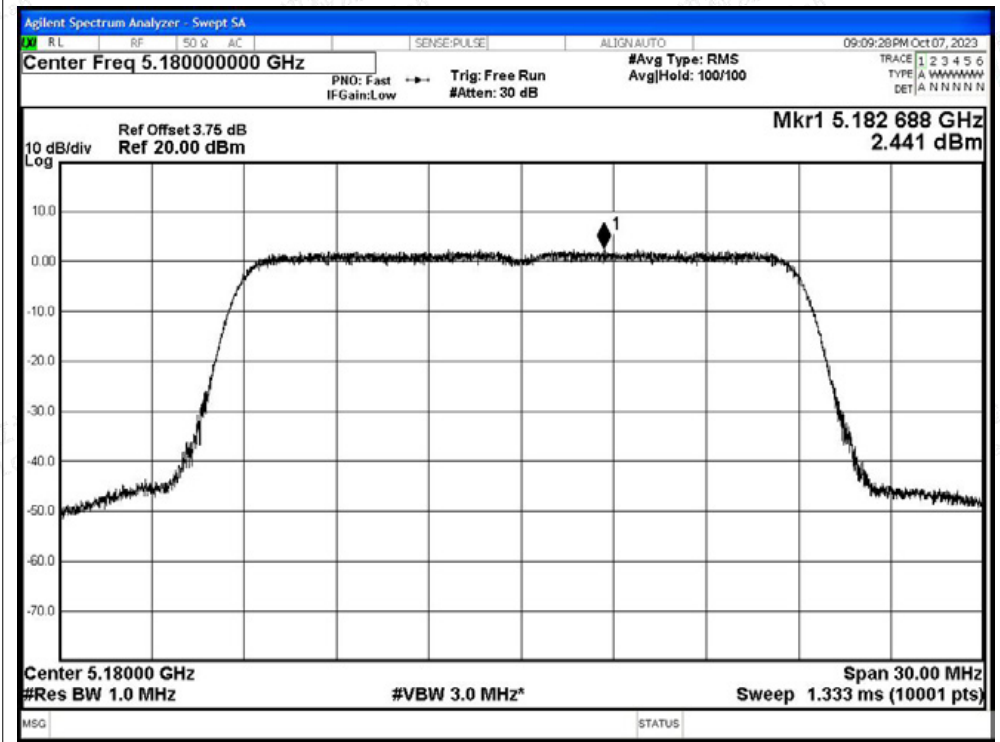




PSD NVNT a 5240MHz Ant1

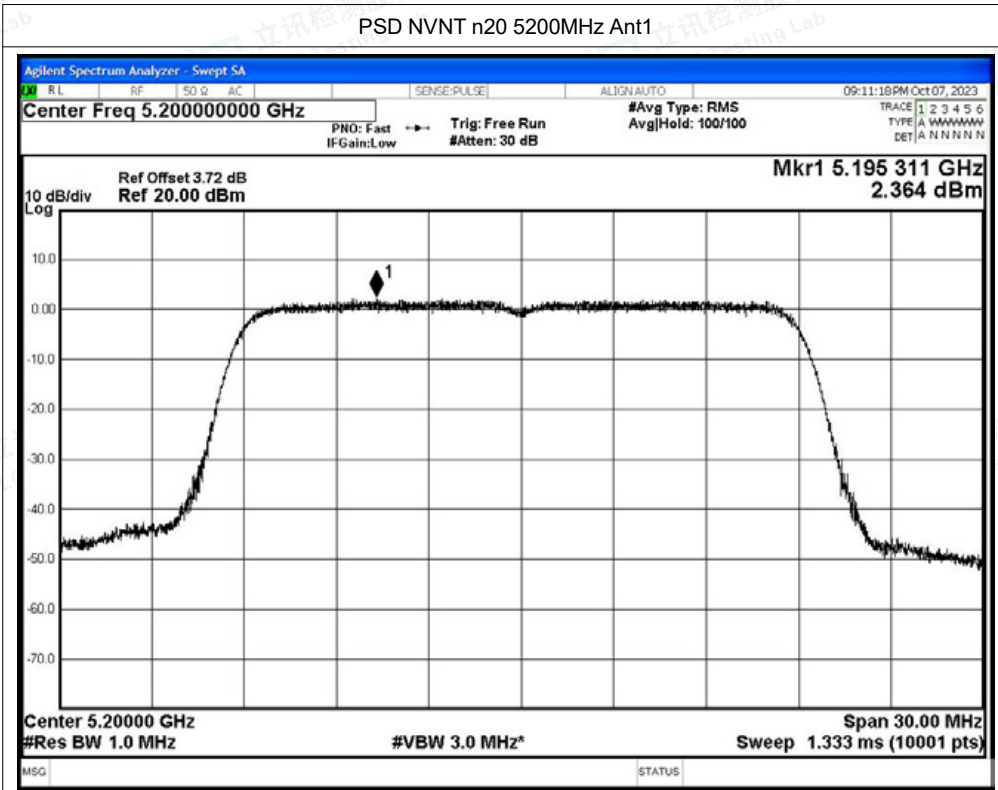


PSD NVNT n20 5180MHz Ant1

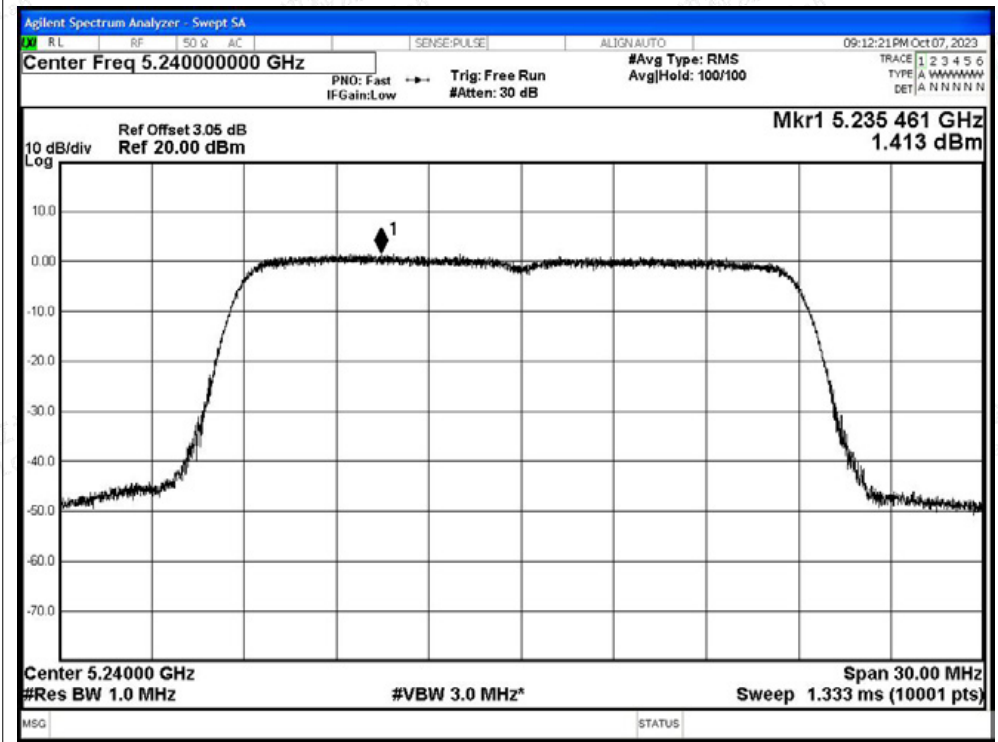




PSD NVNT n20 5200MHz Ant1

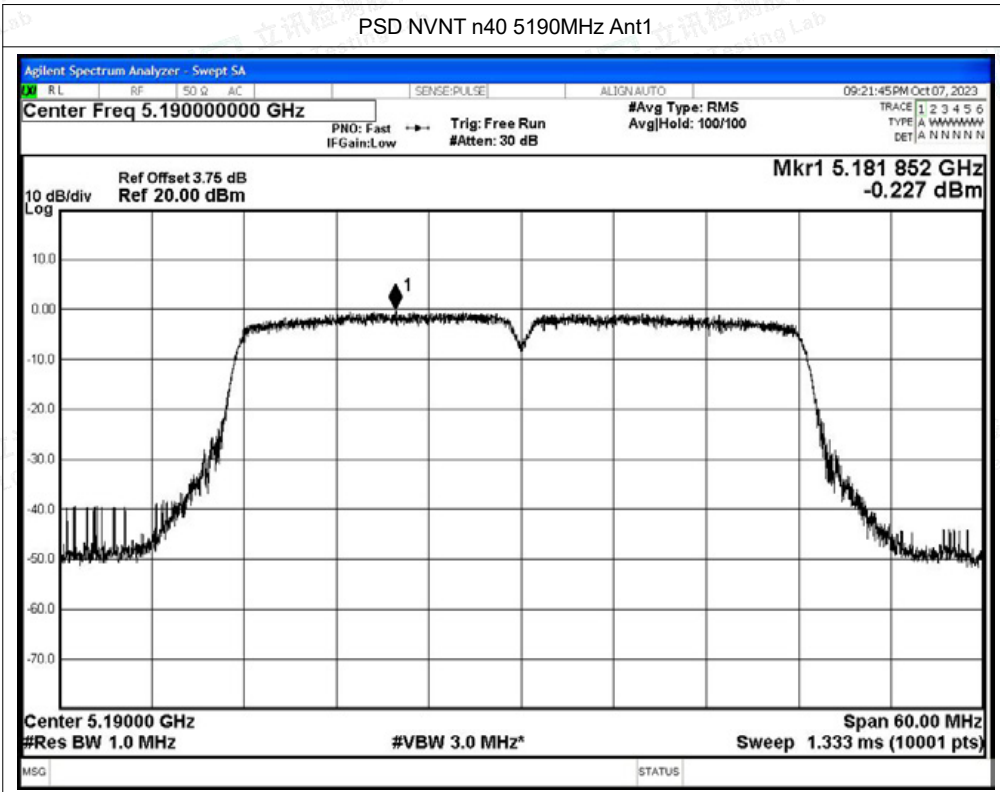


PSD NVNT n20 5240MHz Ant1

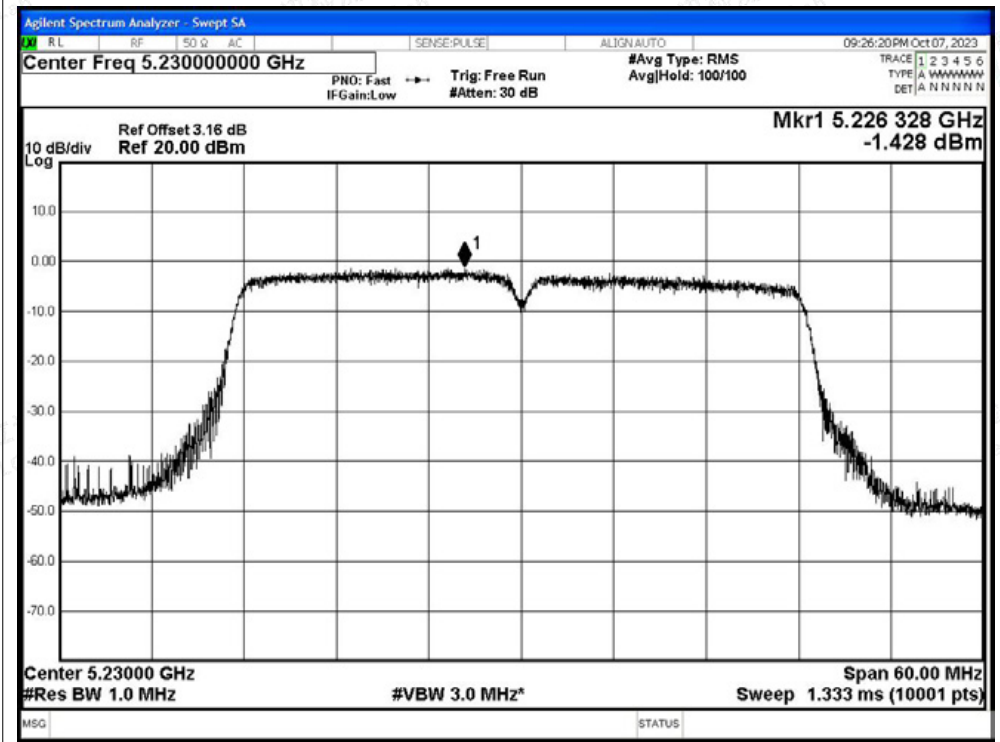




PSD NVNT n40 5190MHz Ant1

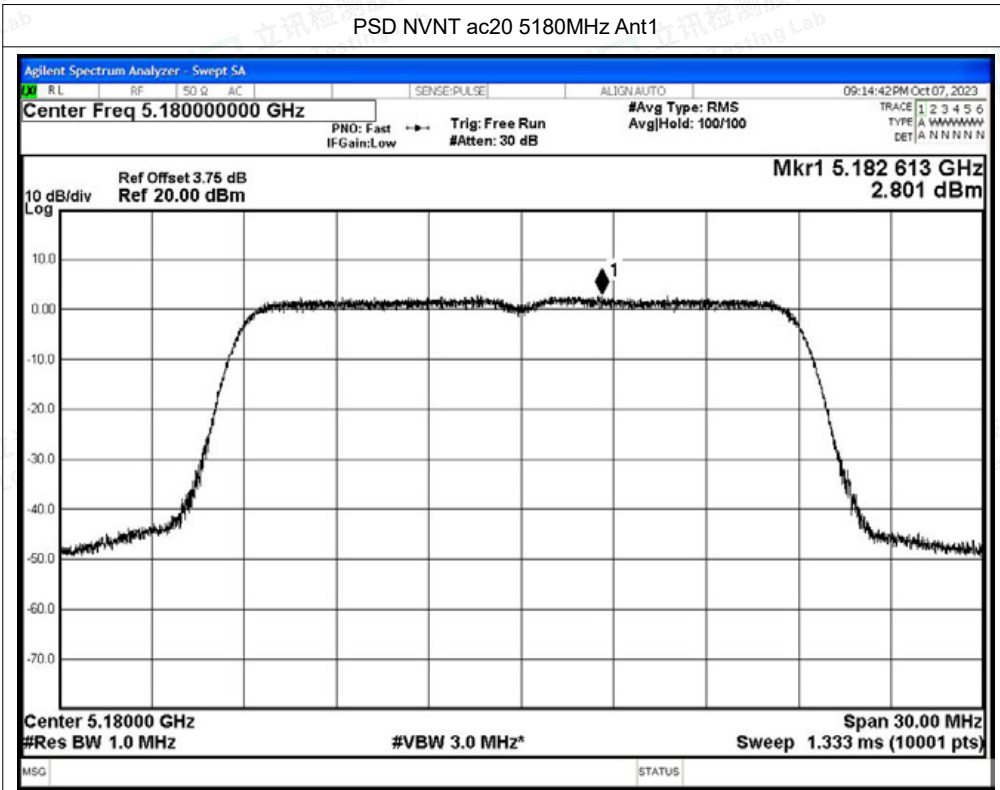


PSD NVNT n40 5230MHz Ant1

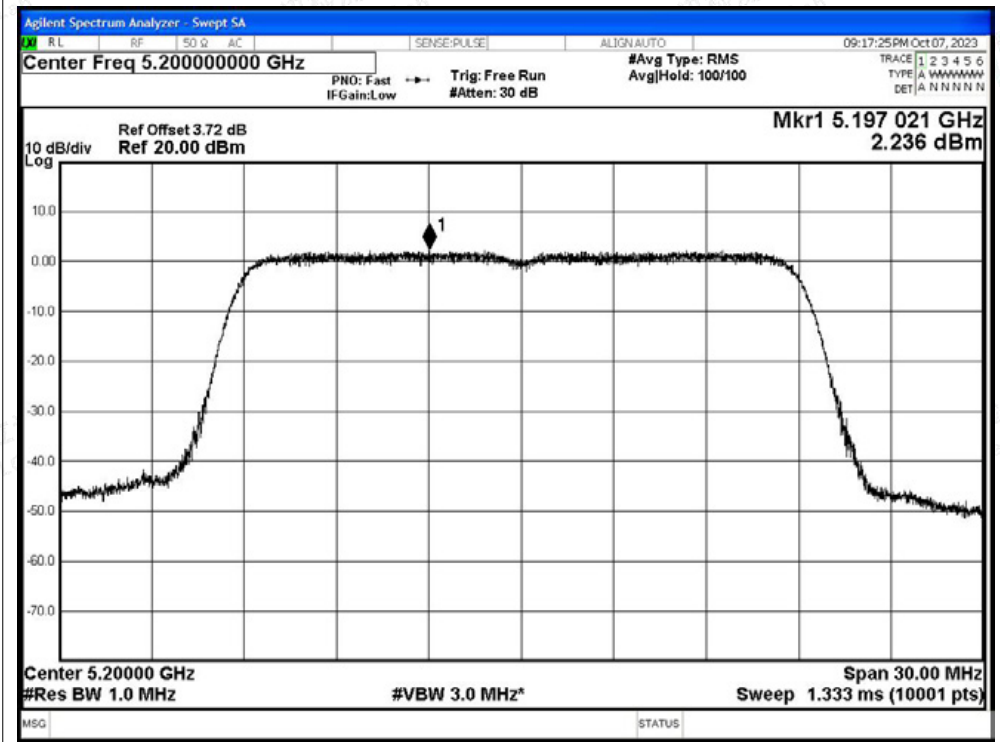




PSD NVNT ac20 5180MHz Ant1

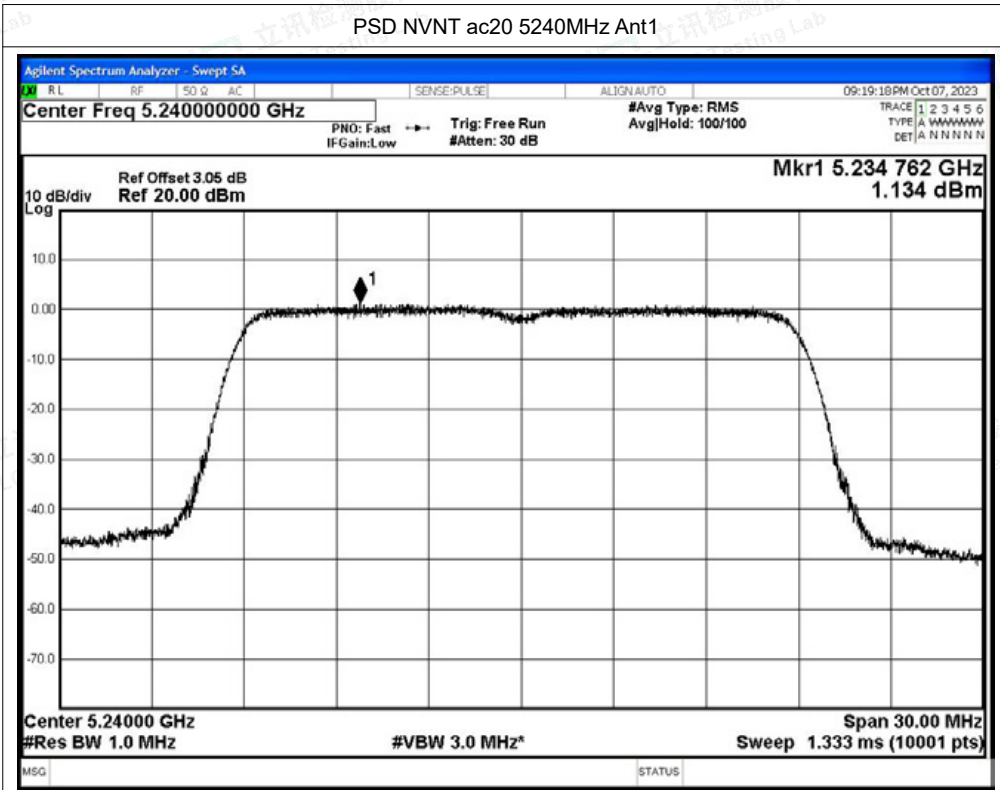


PSD NVNT ac20 5200MHz Ant1

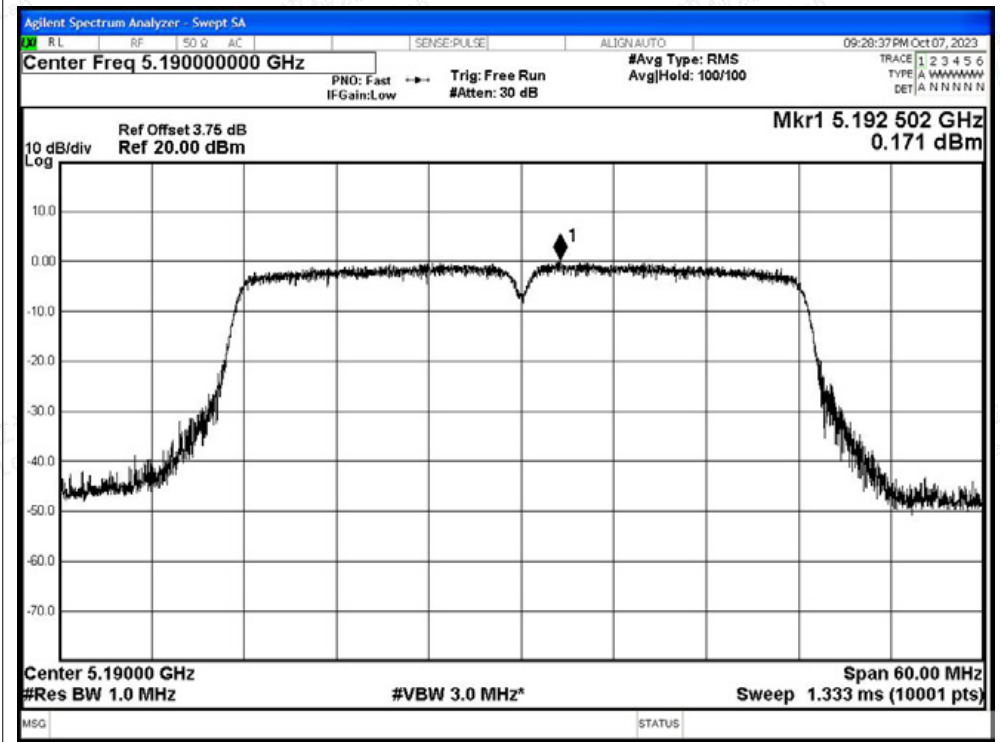




PSD NVNT ac20 5240MHz Ant1

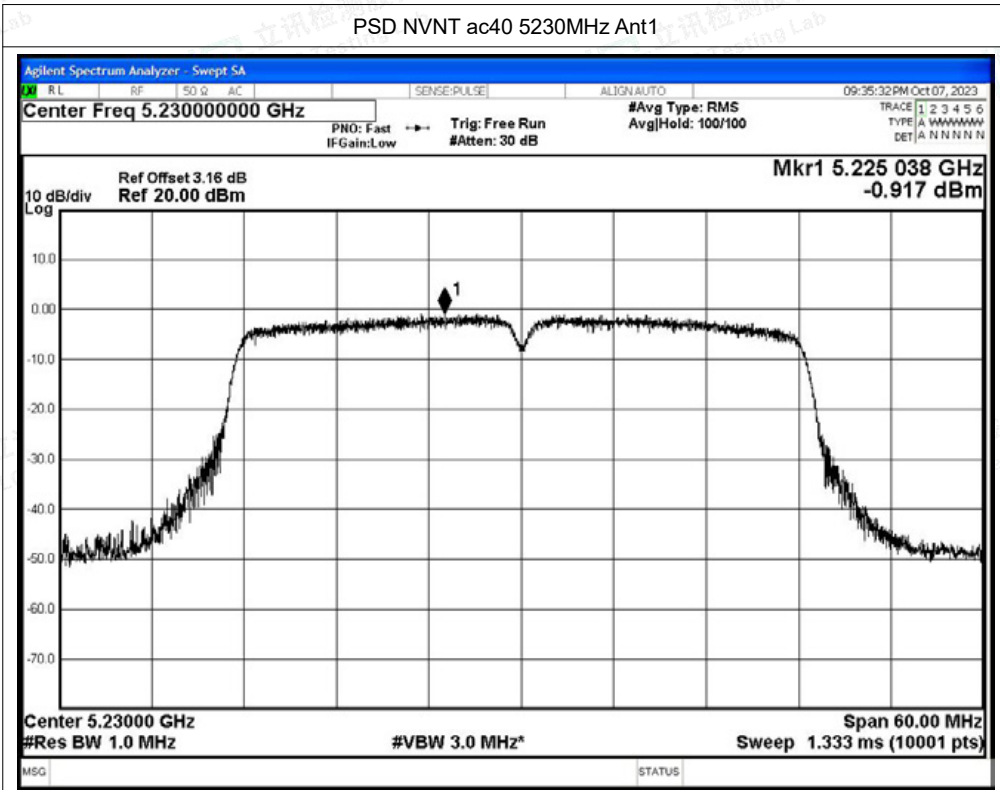


PSD NVNT ac40 5190MHz Ant1

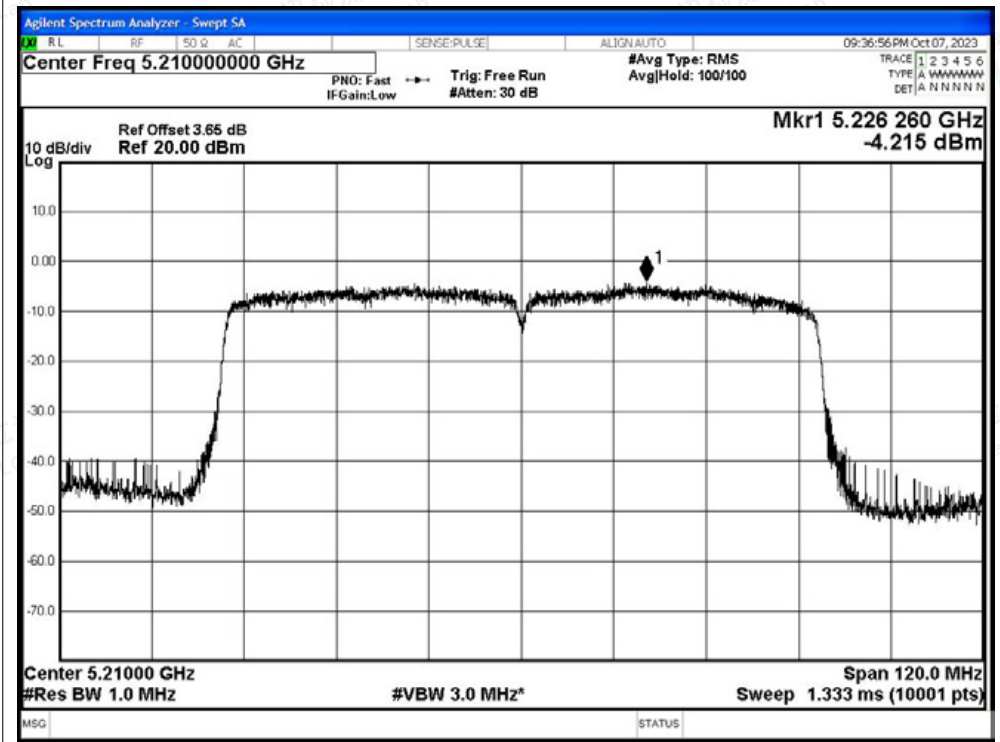




PSD NVNT ac40 5230MHz Ant1



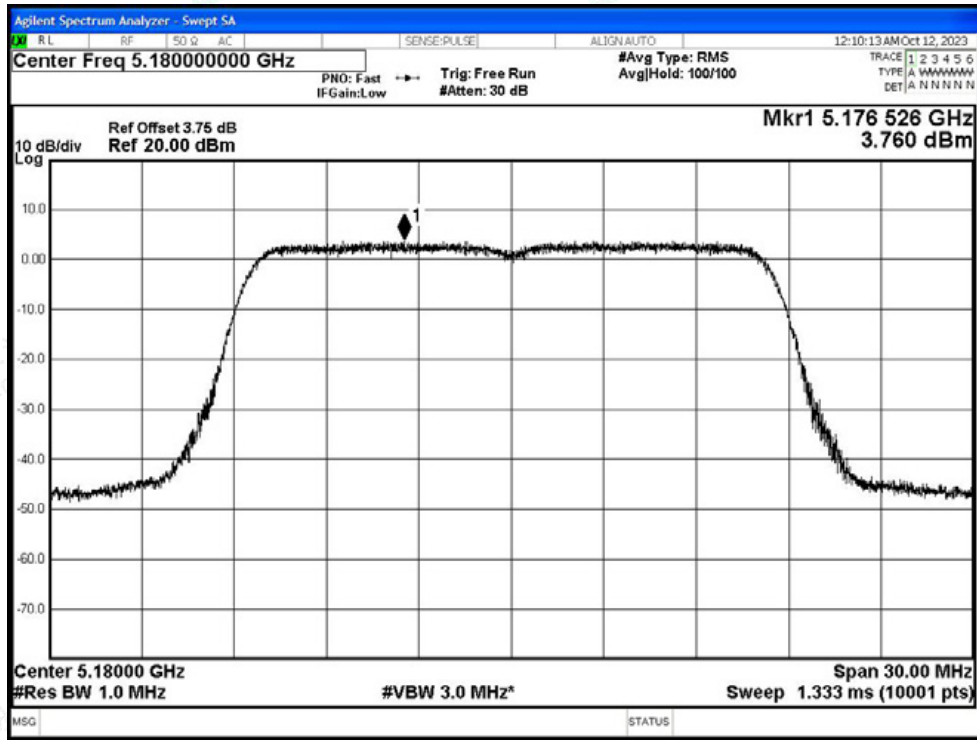
PSD NVNT ac80 5210MHz Ant1



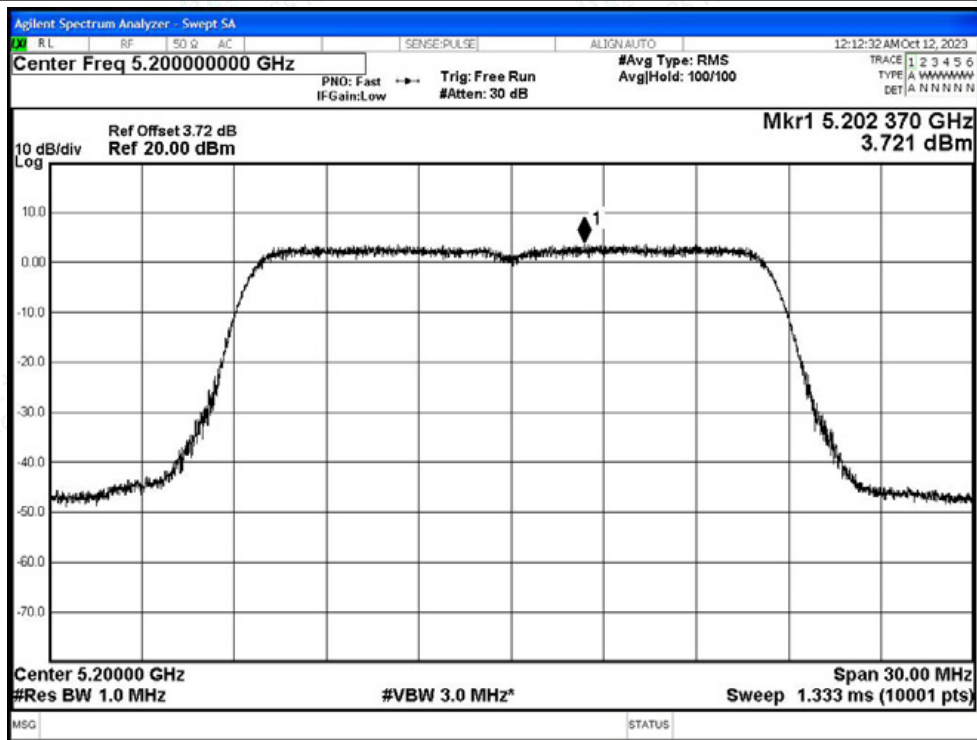


Test Graphs

PSD NVNT a 5180MHz Ant2

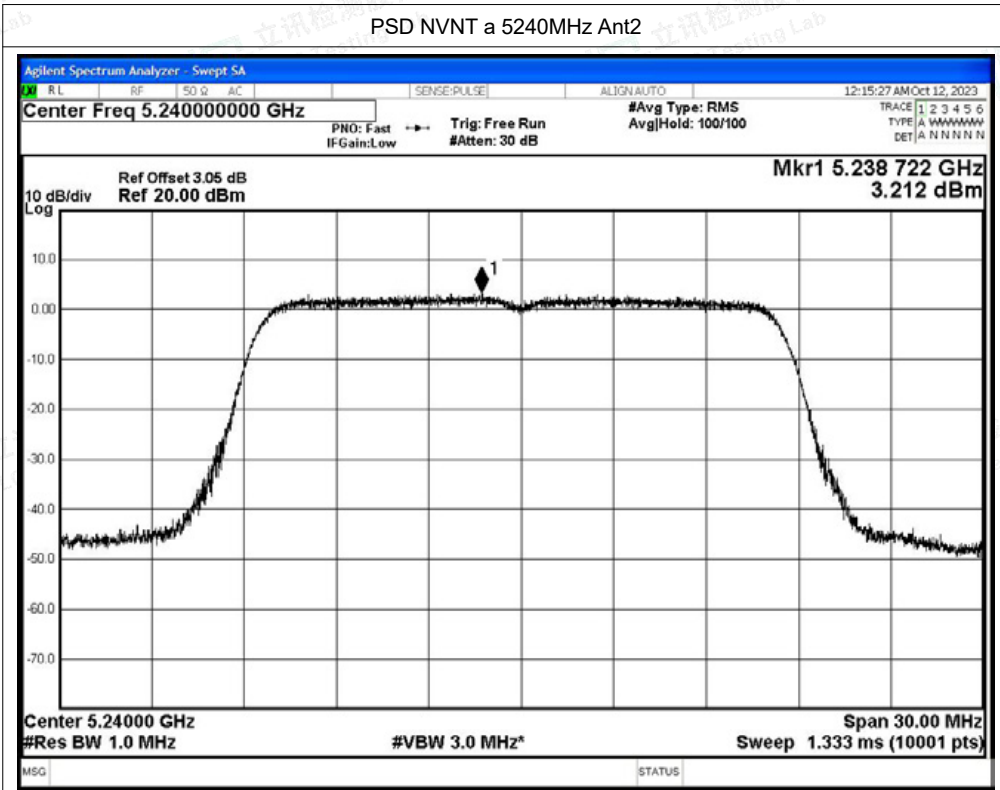


PSD NVNT a 5200MHz Ant2

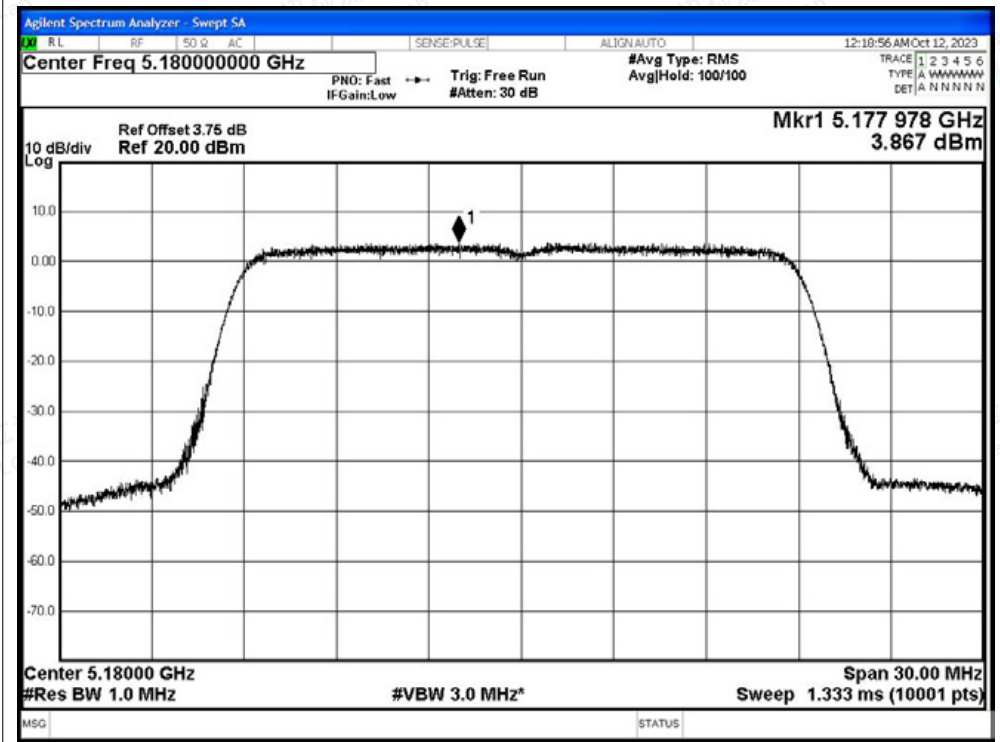




PSD NVNT a 5240MHz Ant2

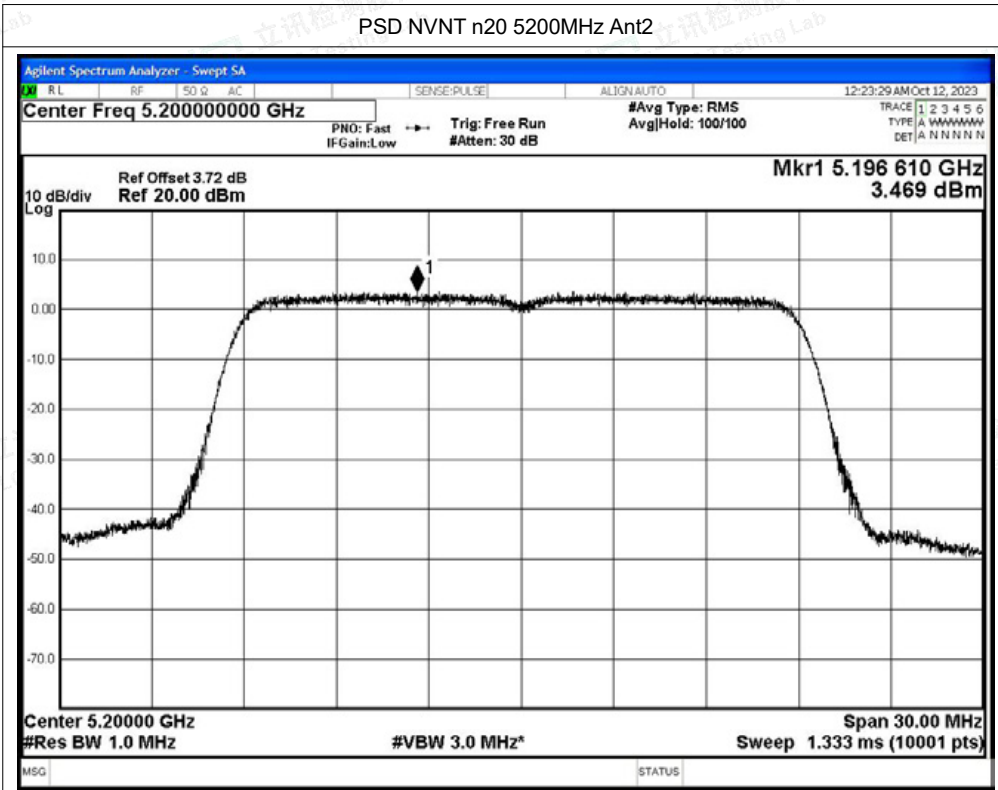


PSD NVNT n20 5180MHz Ant2

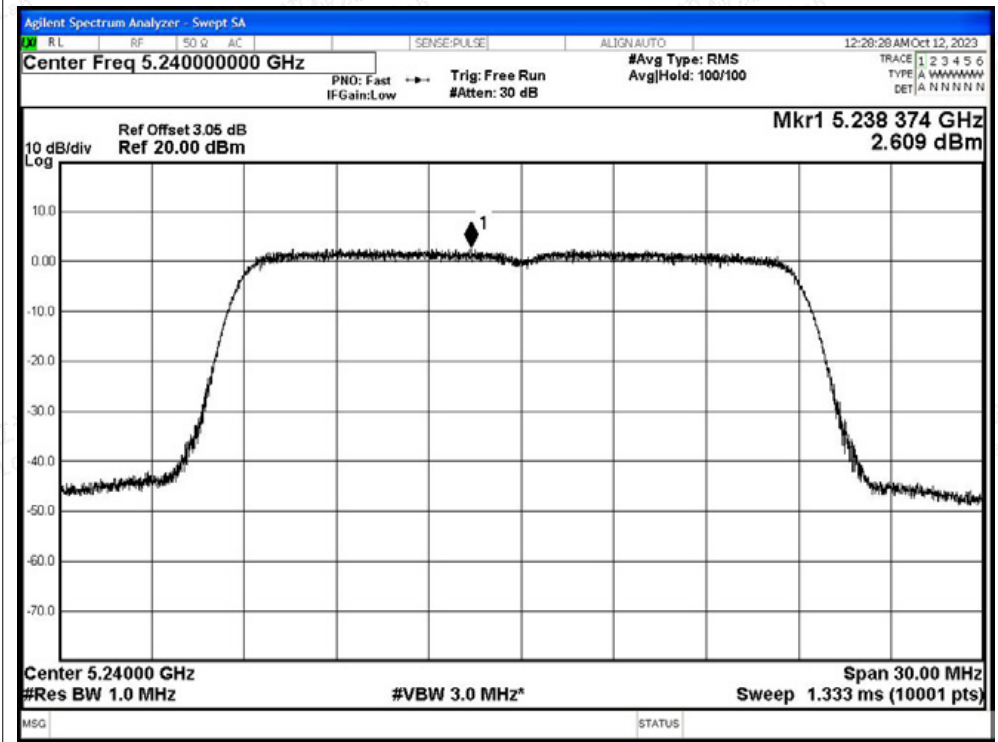




PSD NVNT n20 5200MHz Ant2

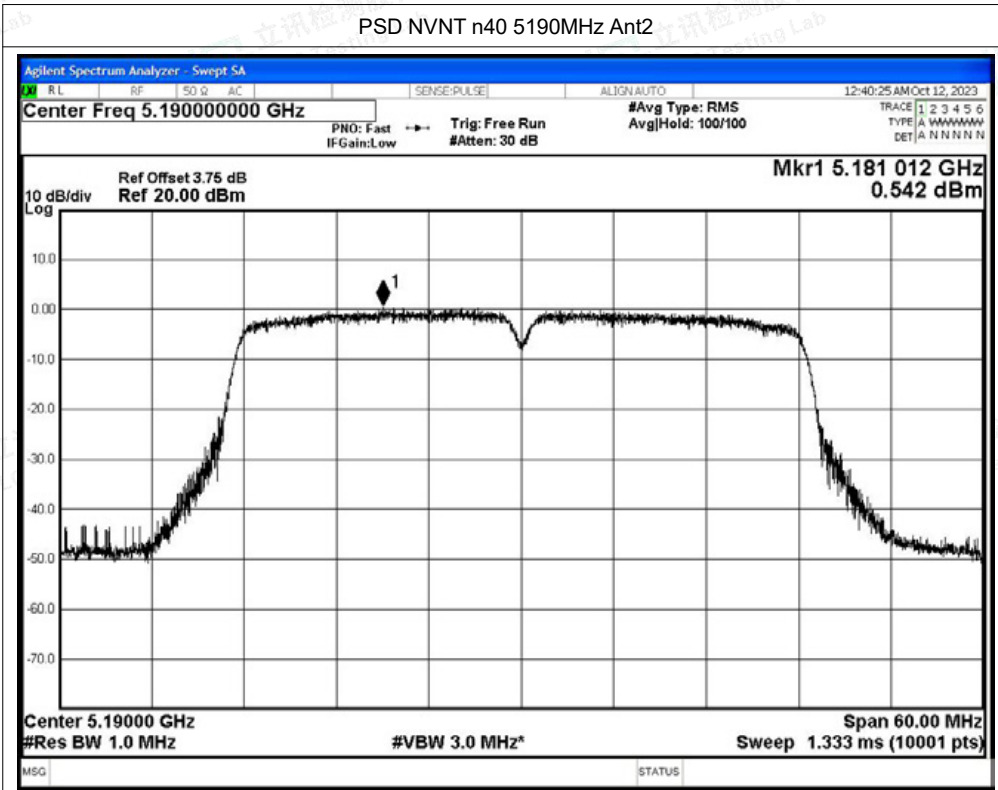


PSD NVNT n20 5240MHz Ant2

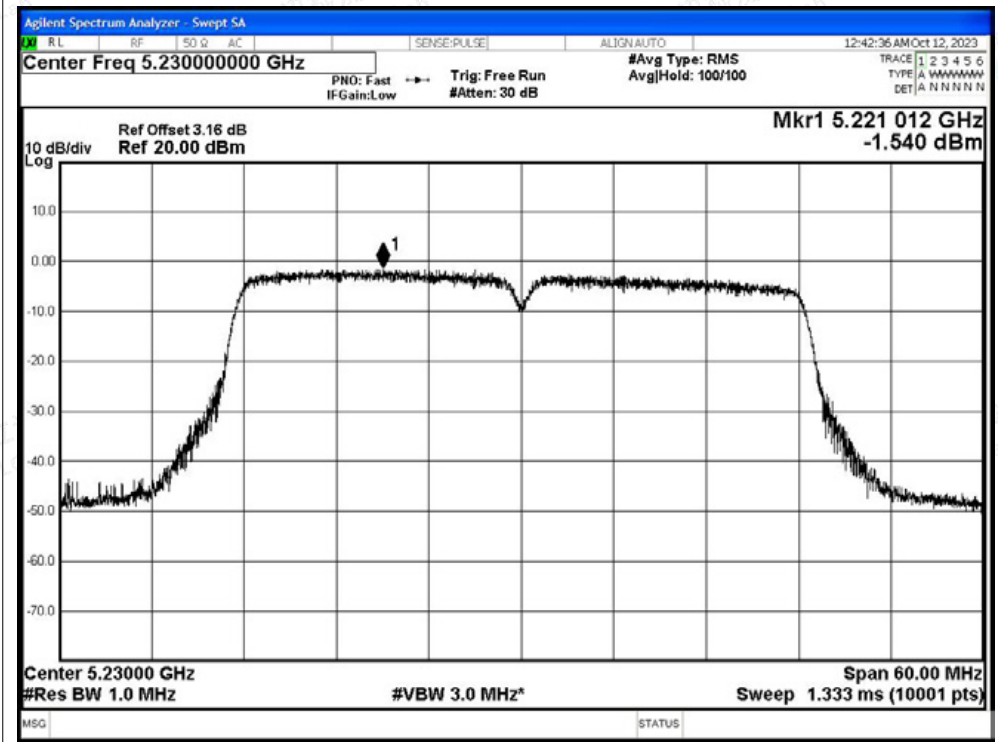




PSD NVNT n40 5190MHz Ant2

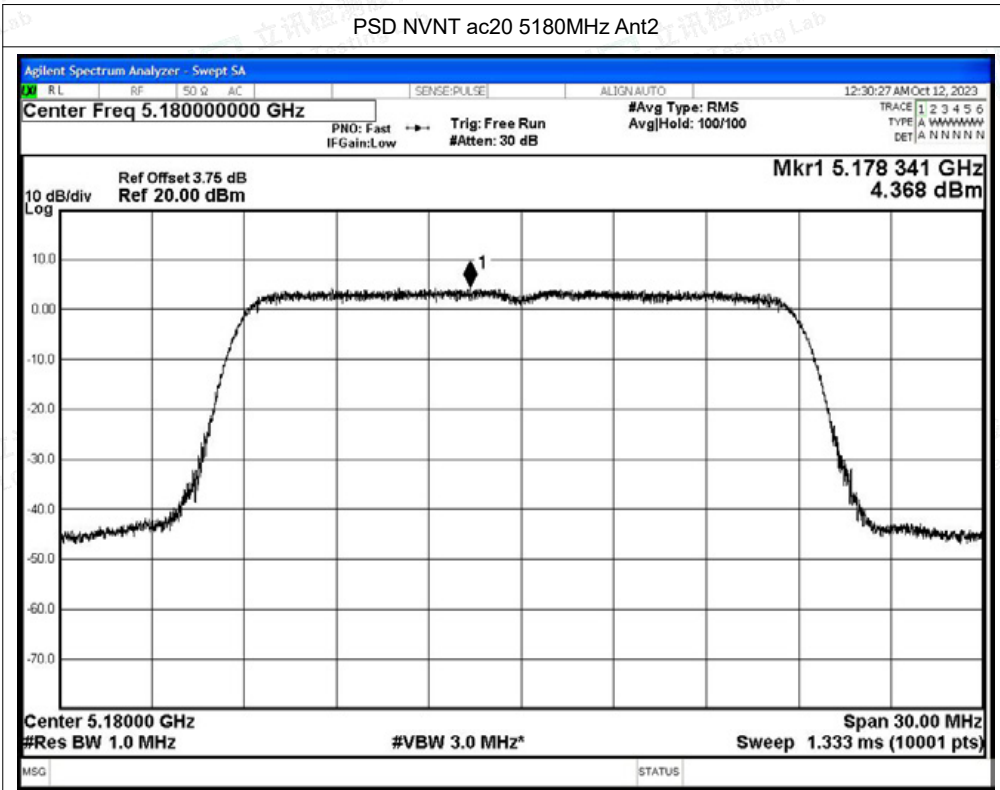


PSD NVNT n40 5230MHz Ant2

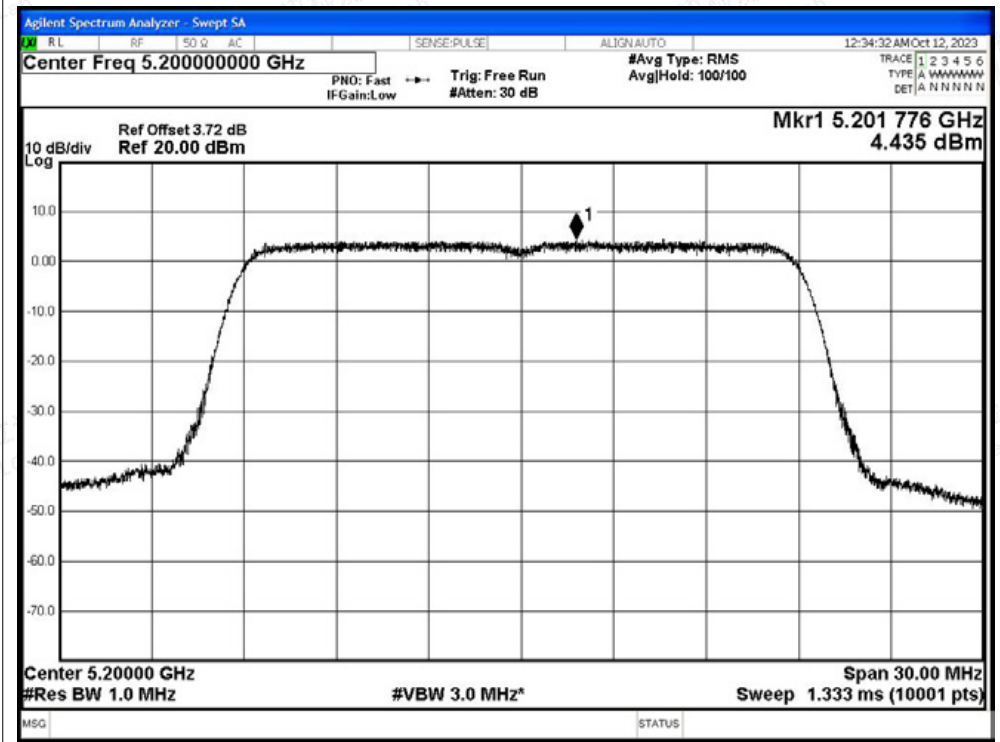




PSD NVNT ac20 5180MHz Ant2

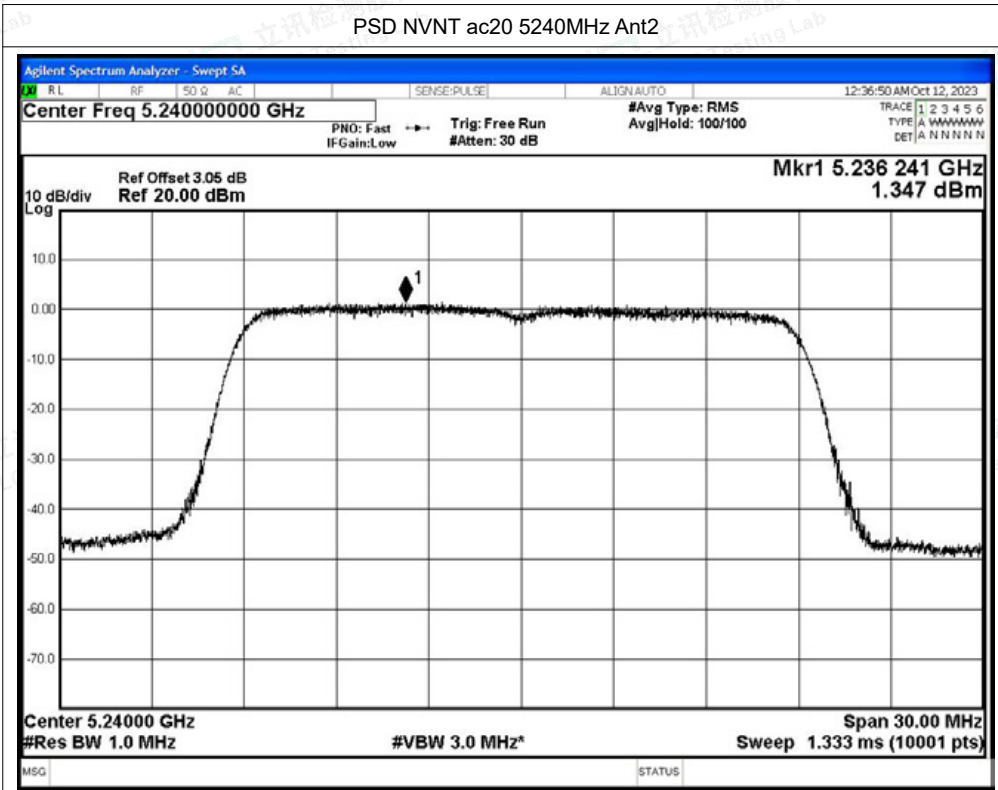


PSD NVNT ac20 5200MHz Ant2





PSD NVNT ac20 5240MHz Ant2



PSD NVNT ac40 5190MHz Ant2

