



Appendix E

RF Test Data for 5.3GWIFI(Conducted Measurement)

Product Name: Translator Earbuds

Test Model: A8

Environmental Conditions

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



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E.1 -26dB Bandwidth

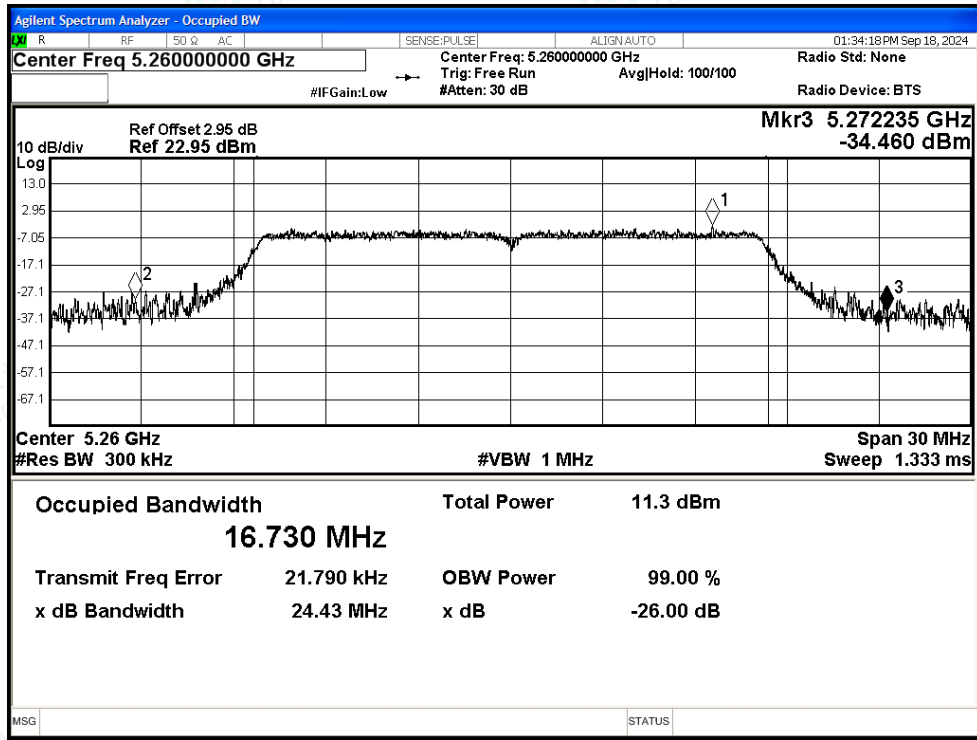
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | a | 5260 | Ant1 | 24.427 | --- | Pass |
| NVNT | a | 5300 | Ant1 | 25.691 | --- | Pass |
| NVNT | a | 5320 | Ant1 | 24.295 | --- | Pass |
| NVNT | n20 | 5260 | Ant1 | 28.639 | --- | Pass |
| NVNT | n20 | 5300 | Ant1 | 26.953 | --- | Pass |
| NVNT | n20 | 5320 | Ant1 | 27.974 | --- | Pass |
| NVNT | n40 | 5270 | Ant1 | 39.18 | --- | Pass |
| NVNT | n40 | 5310 | Ant1 | 40.562 | --- | Pass |



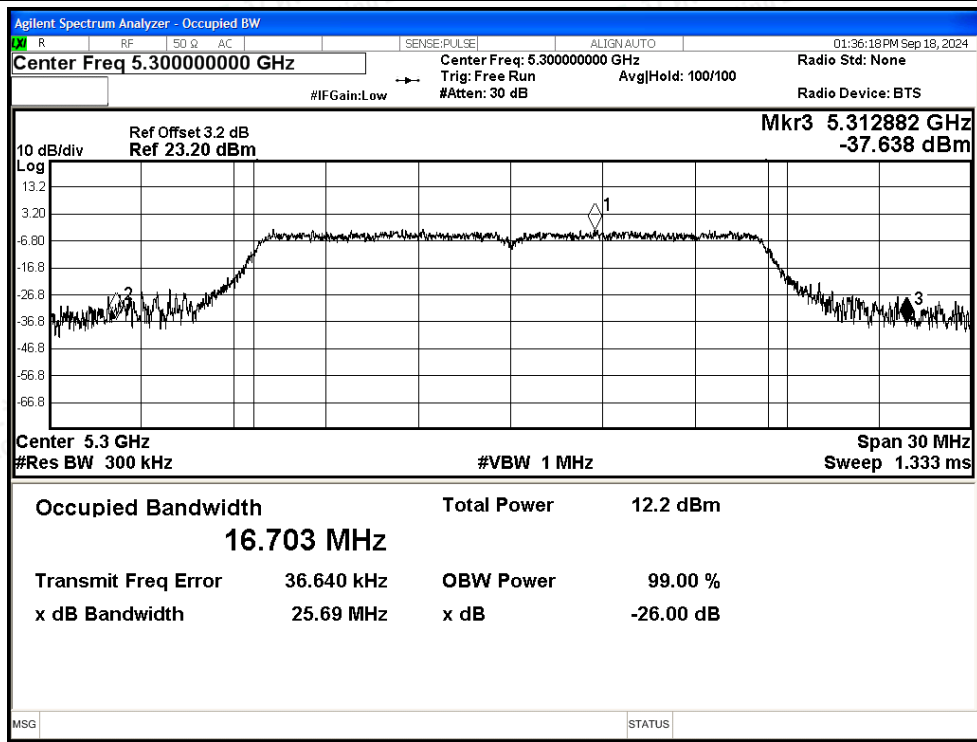


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1



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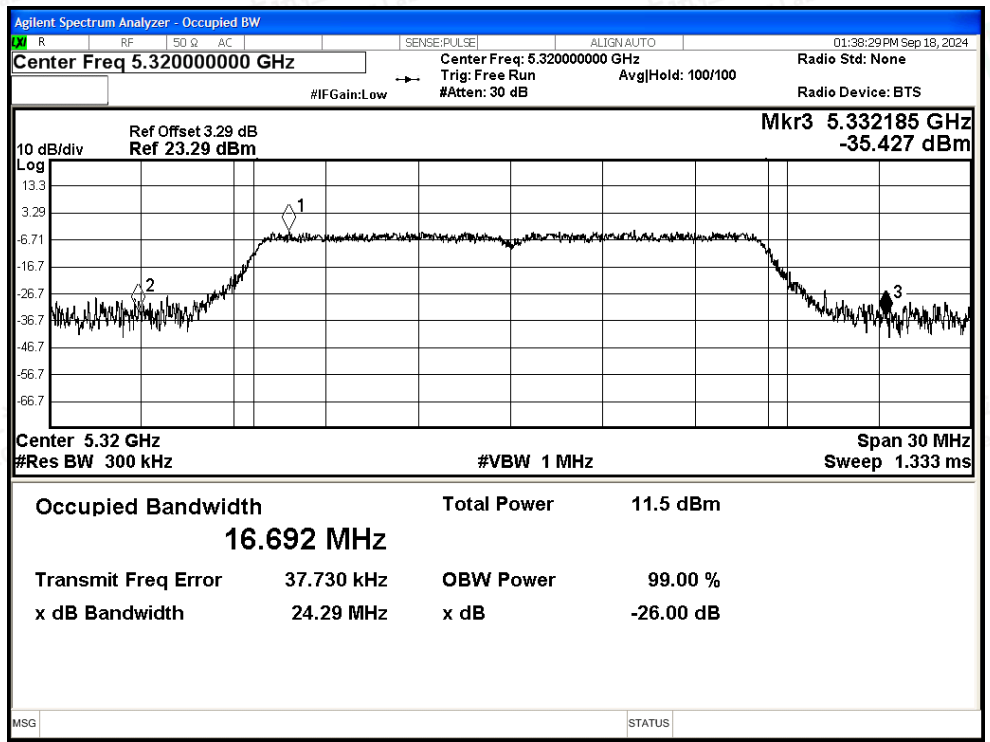
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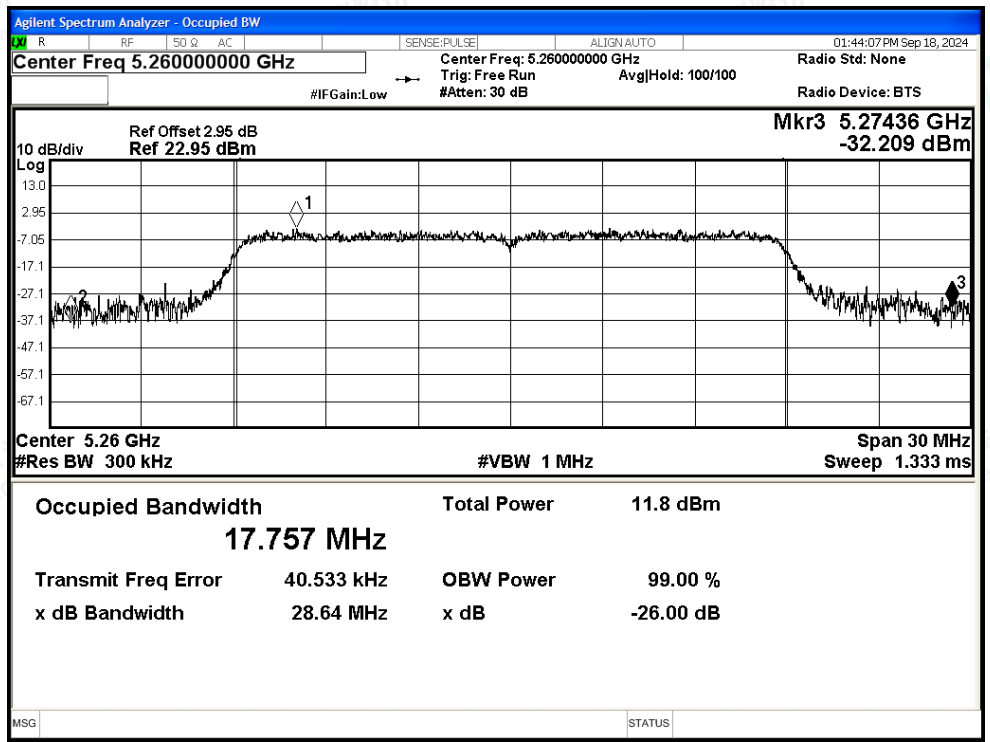
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-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



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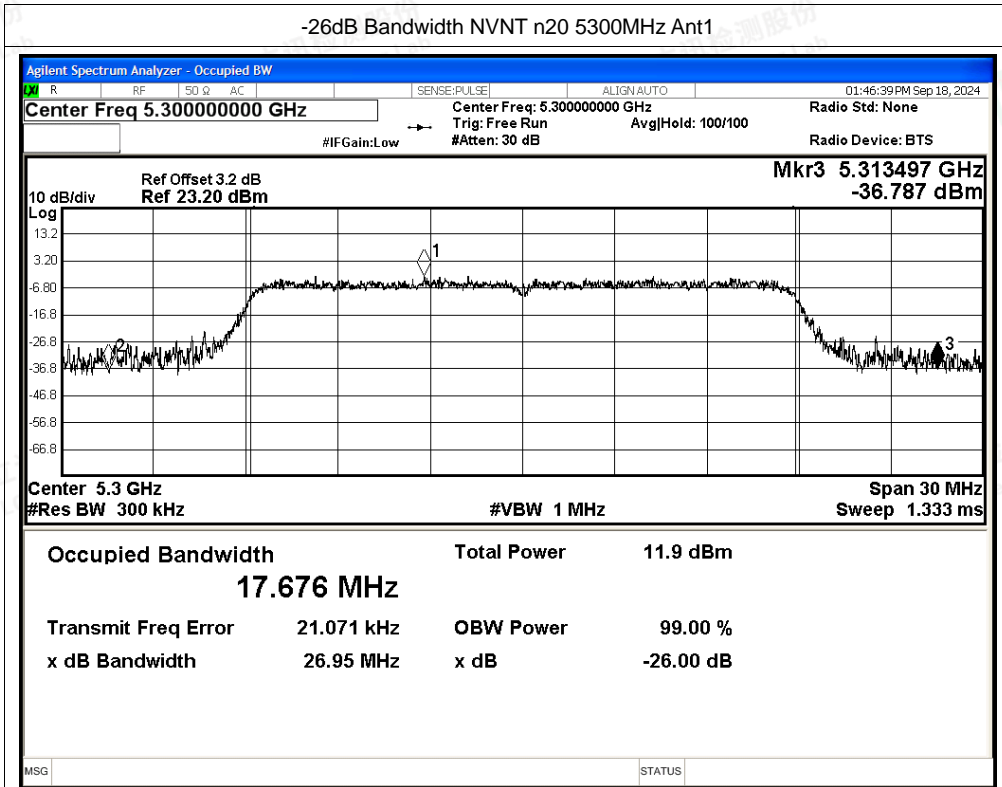
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

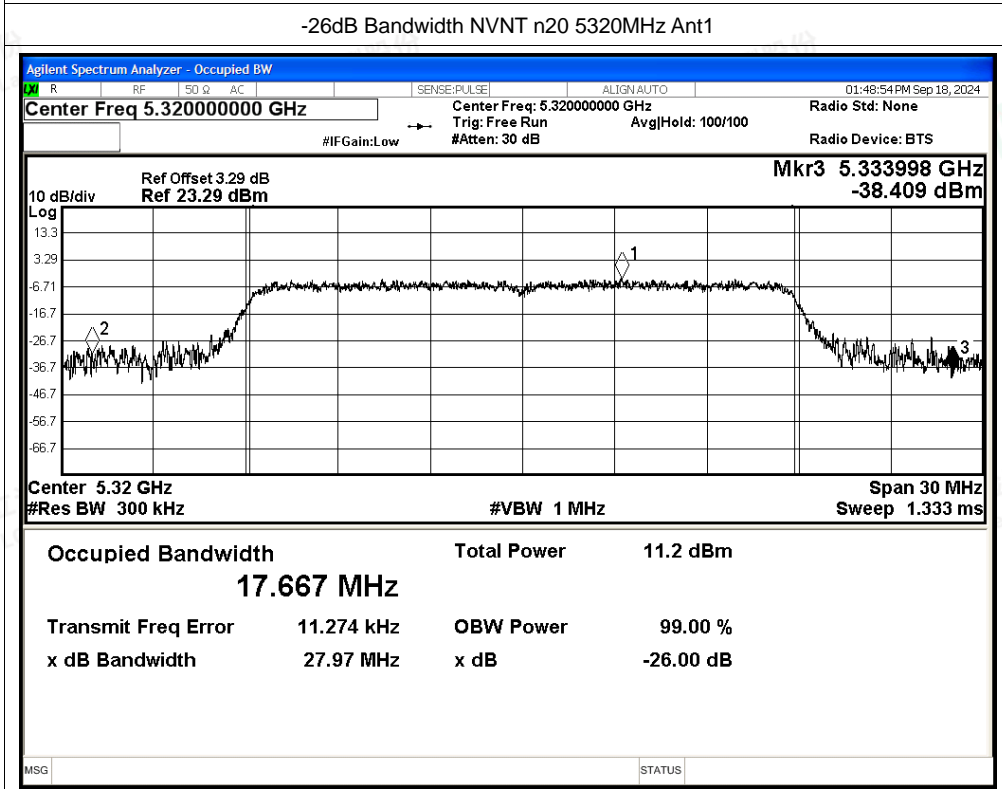
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



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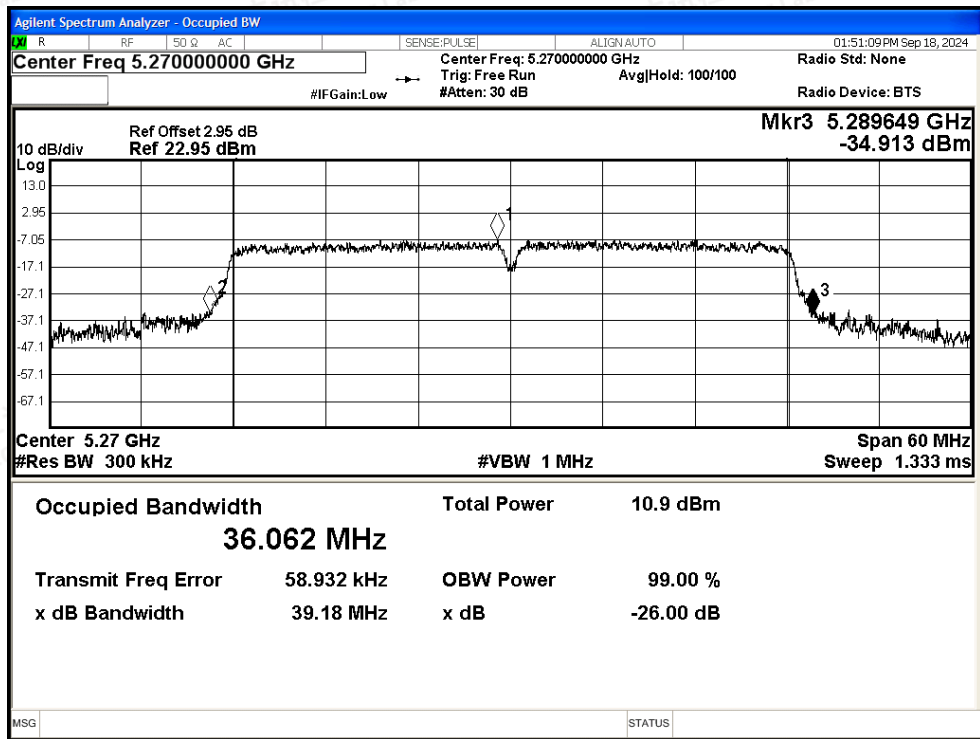
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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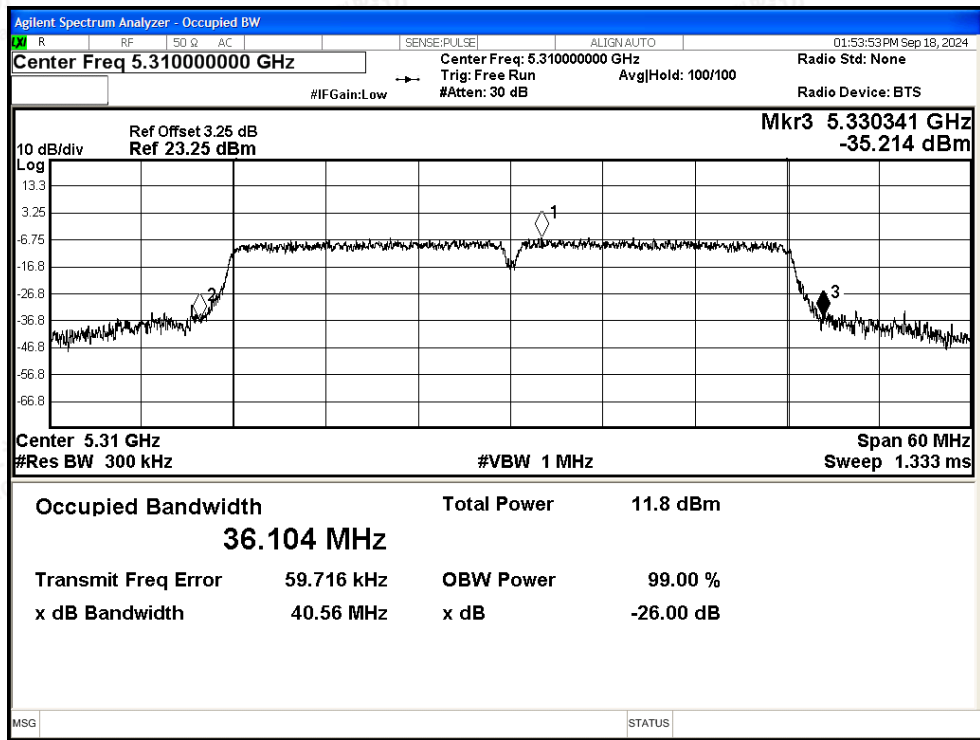
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-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



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E.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT | a | 5260 | Ant1 | 5.65 | 0.24 | 5.89 | 24 | Pass |
| NVNT | a | 5300 | Ant1 | 5.54 | 0.24 | 5.78 | 24 | Pass |
| NVNT | a | 5320 | Ant1 | 5.75 | 0.24 | 5.99 | 24 | Pass |
| NVNT | n20 | 5260 | Ant1 | 5.39 | 0.28 | 5.67 | 24 | Pass |
| NVNT | n20 | 5300 | Ant1 | 5.19 | 0.28 | 5.47 | 24 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5.49 | 0.28 | 5.77 | 24 | Pass |
| NVNT | n40 | 5270 | Ant1 | 4.98 | 0.55 | 5.53 | 24 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5.74 | 0.54 | 6.28 | 24 | Pass |





E.3 Maximum Power Spectral Density Level

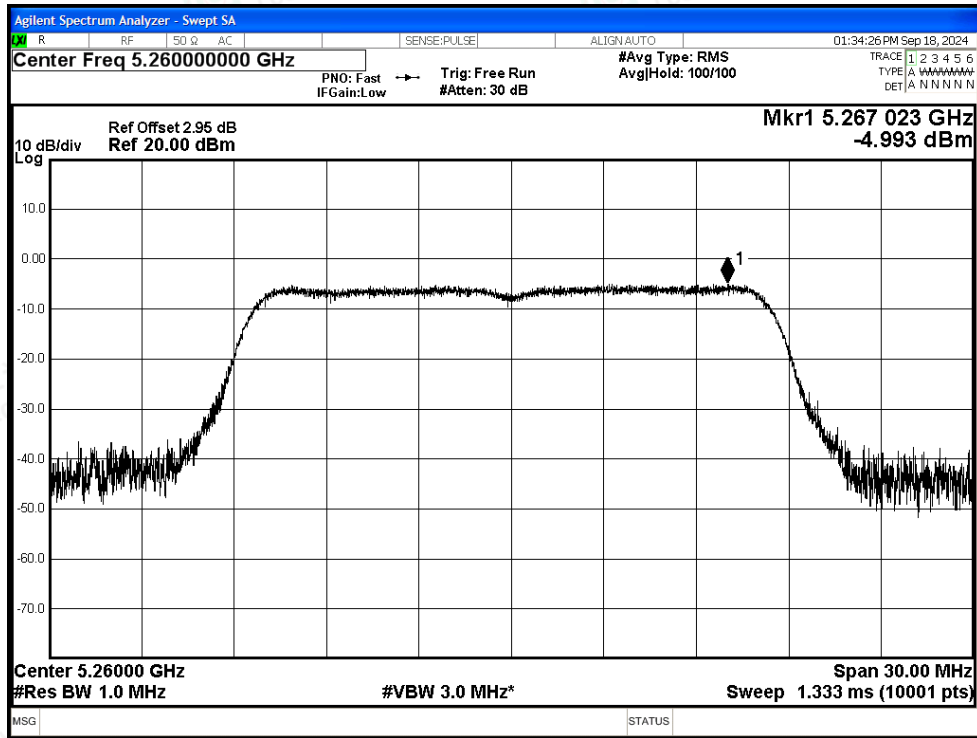
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|---------------------|-----------------|---------|
| NVNT | a | 5260 | Ant1 | -4.99 | 0.24 | -4.75 | 11 | Pass |
| NVNT | a | 5300 | Ant1 | -3.85 | 0.24 | -3.61 | 11 | Pass |
| NVNT | a | 5320 | Ant1 | -4.97 | 0.24 | -4.73 | 11 | Pass |
| NVNT | n20 | 5260 | Ant1 | -5.37 | 0.28 | -5.09 | 11 | Pass |
| NVNT | n20 | 5300 | Ant1 | -5.15 | 0.28 | -4.87 | 11 | Pass |
| NVNT | n20 | 5320 | Ant1 | -5.35 | 0.28 | -5.07 | 11 | Pass |
| NVNT | n40 | 5270 | Ant1 | -8.51 | 0.55 | -7.96 | 11 | Pass |
| NVNT | n40 | 5310 | Ant1 | -7.89 | 0.54 | -7.35 | 11 | Pass |



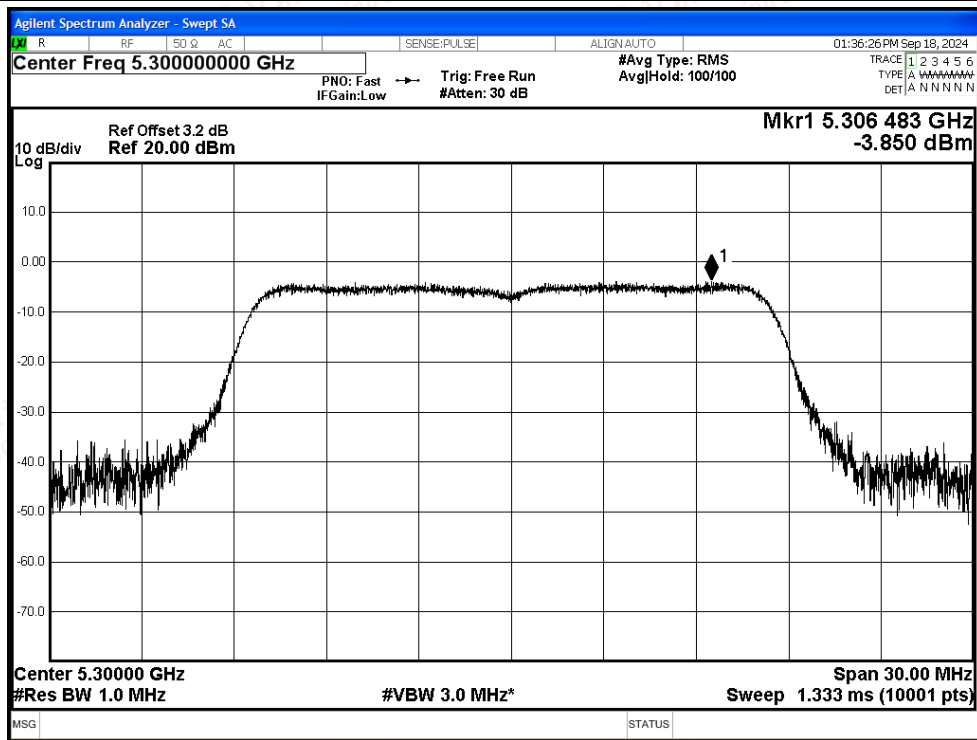


Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



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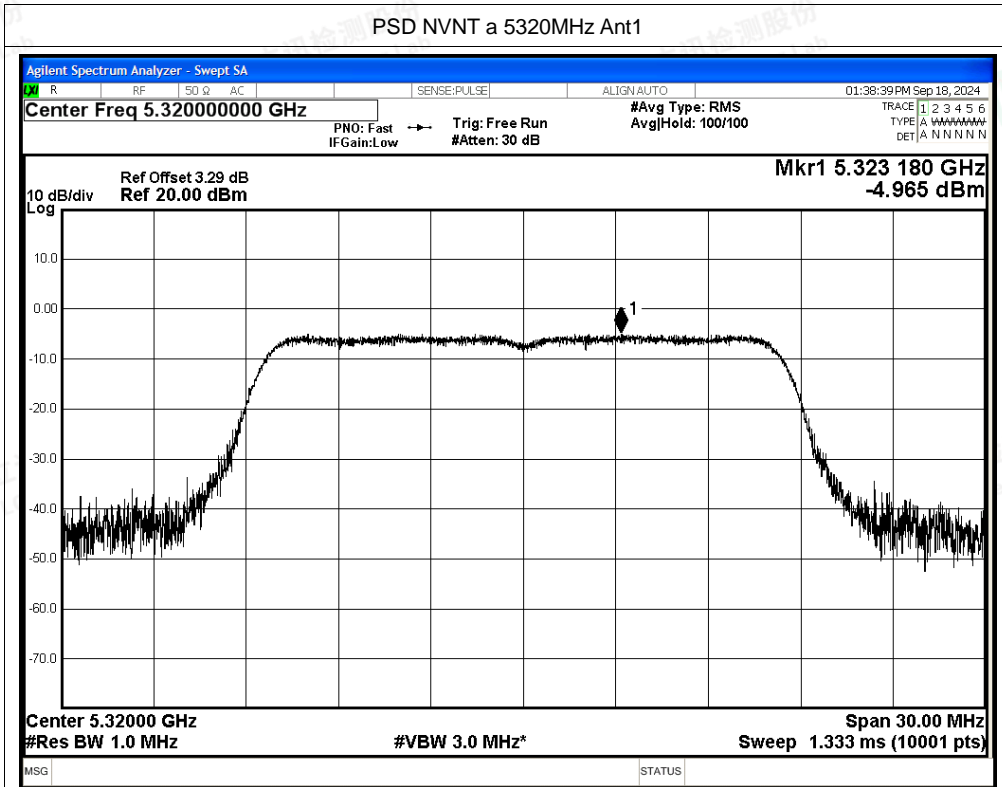
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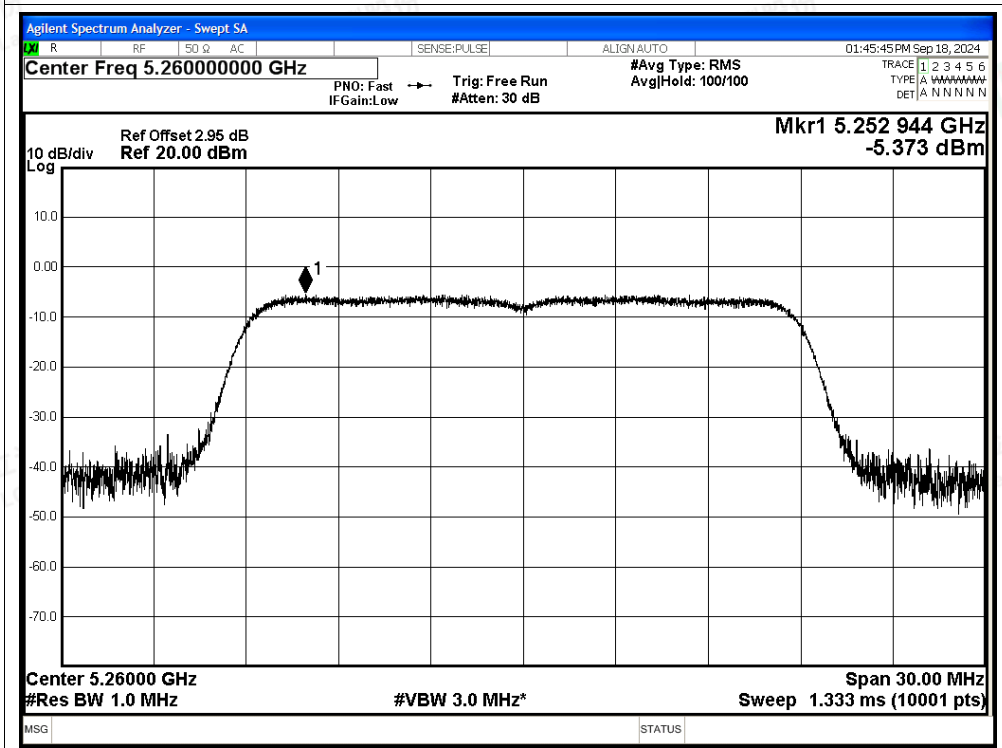
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PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1

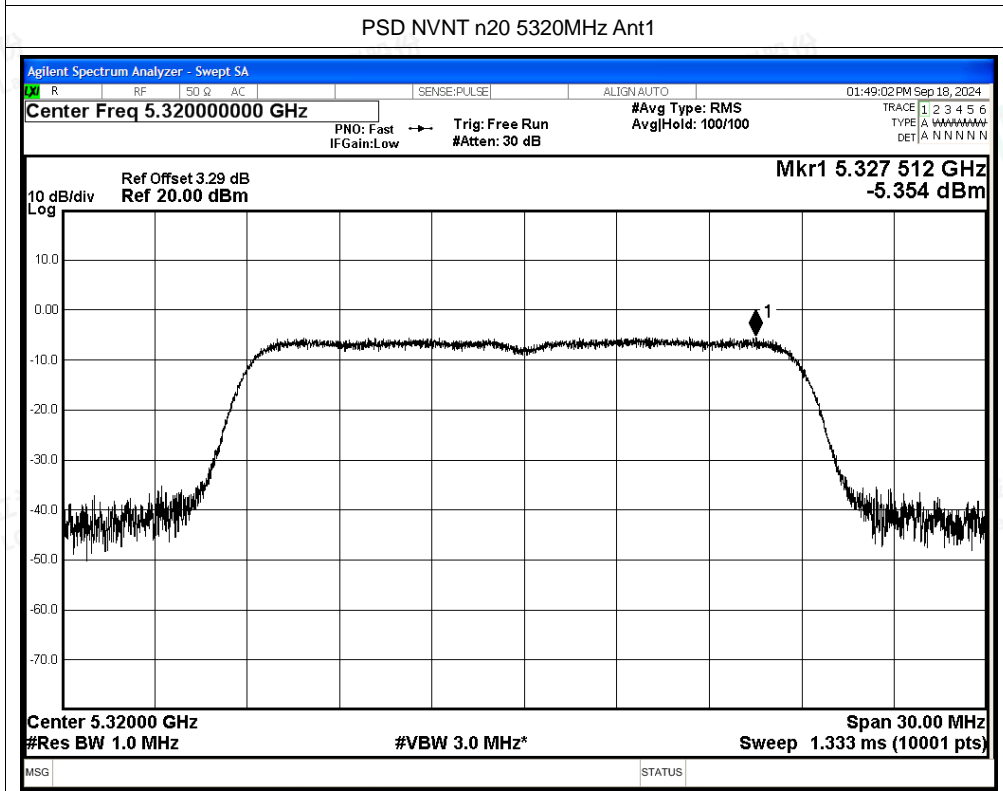
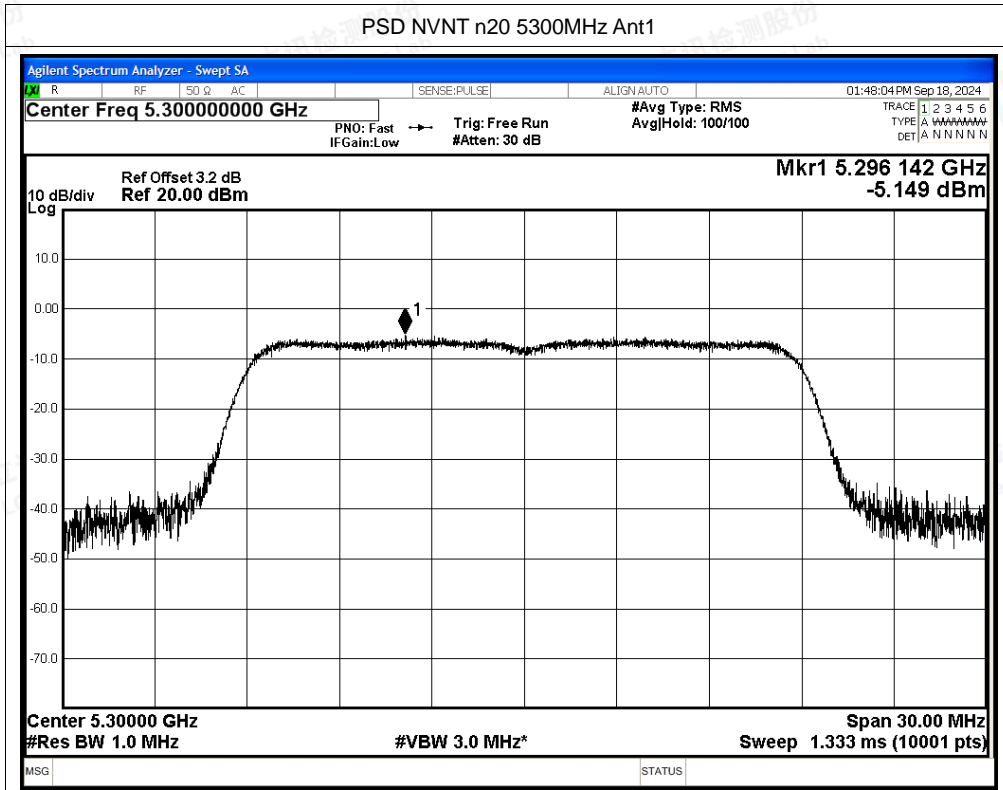


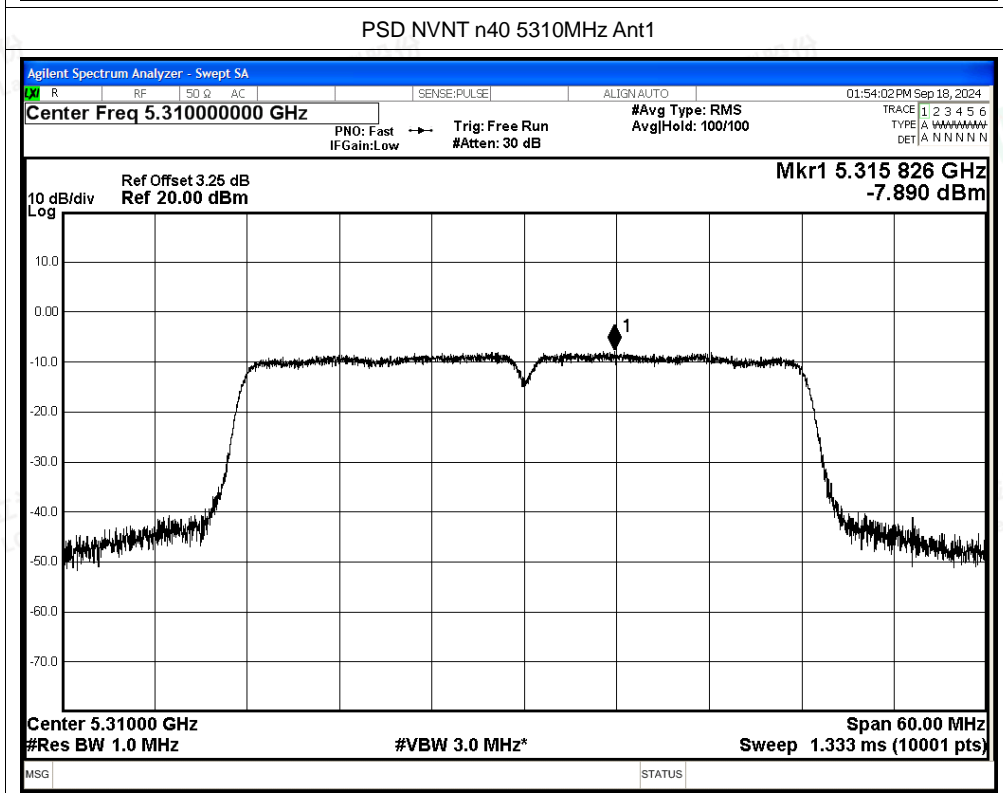
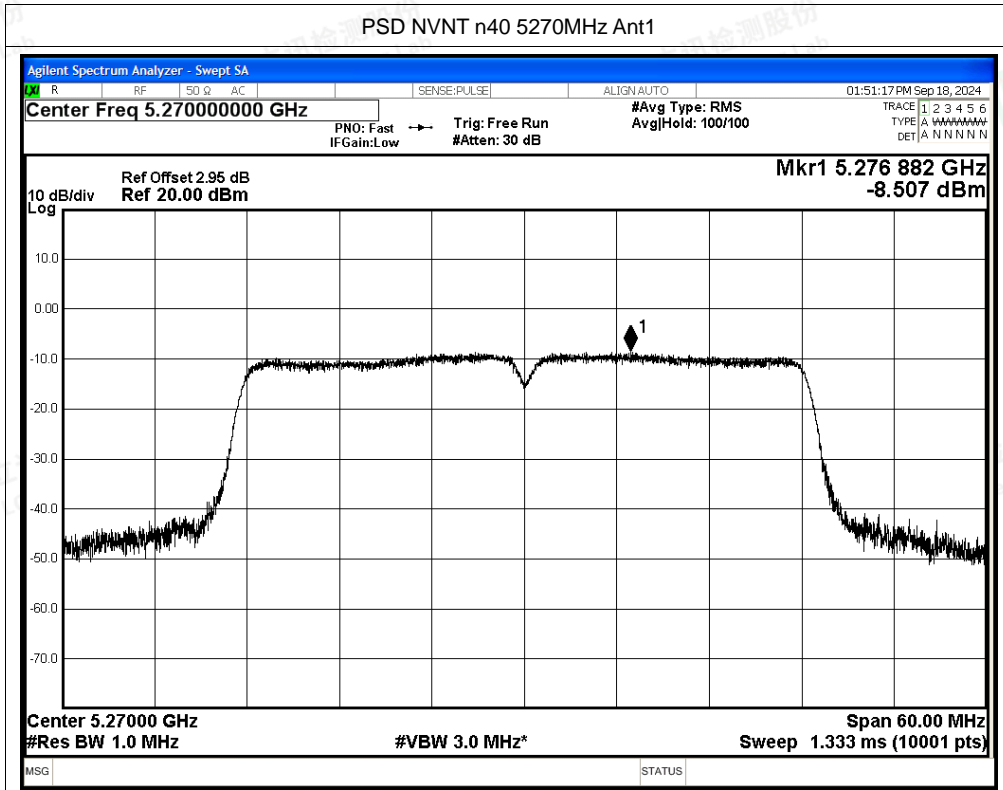
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E.4 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBUV/m) | Detector | Limit (dBUV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT | a | 5260 | Ant1 | 4500 | -49.92 | 4.28 | - | 49.59 | Peak | 68.2 | Pass |
| NVNT | a | 5260 | Ant1 | 4500 | -59.23 | 4.28 | 0.24 | 40.52 | Average | 54 | Pass |
| NVNT | a | 5260 | Ant1 | 5141.94 | -46.1 | 4.28 | - | 53.41 | Peak | 68.2 | Pass |
| NVNT | a | 5260 | Ant1 | 5100.6 | -56.63 | 4.28 | 0.24 | 43.12 | Average | 54 | Pass |
| NVNT | a | 5260 | Ant1 | 5150 | -49.25 | 4.28 | - | 50.26 | Peak | 68.2 | Pass |
| NVNT | a | 5260 | Ant1 | 5150 | -57.47 | 4.28 | 0.24 | 42.28 | Average | 54 | Pass |
| NVNT | a | 5320 | Ant1 | 5350 | -45.5 | 4.28 | - | 54.01 | Peak | 68.2 | Pass |
| NVNT | a | 5320 | Ant1 | 5350 | -55.84 | 4.28 | 0.24 | 43.91 | Average | 54 | Pass |
| NVNT | a | 5320 | Ant1 | 5351 | -43.2 | 4.28 | - | 56.31 | Peak | 68.2 | Pass |
| NVNT | a | 5320 | Ant1 | 5350.6 | -55.72 | 4.28 | 0.24 | 44.03 | Average | 54 | Pass |
| NVNT | a | 5320 | Ant1 | 5460 | -51.01 | 4.28 | - | 48.50 | Peak | 68.2 | Pass |
| NVNT | a | 5320 | Ant1 | 5460 | -57.56 | 4.28 | 0.24 | 42.19 | Average | 54 | Pass |
| NVNT | n20 | 5260 | Ant1 | 4500 | -50.8 | 4.28 | - | 48.71 | Peak | 68.2 | Pass |
| NVNT | n20 | 5260 | Ant1 | 4500 | -58.53 | 4.28 | 0.28 | 41.26 | Average | 54 | Pass |
| NVNT | n20 | 5260 | Ant1 | 4787.82 | -45.96 | 4.28 | - | 53.55 | Peak | 68.2 | Pass |
| NVNT | n20 | 5260 | Ant1 | 5057.7 | -56.76 | 4.28 | 0.28 | 43.03 | Average | 54 | Pass |
| NVNT | n20 | 5260 | Ant1 | 5150 | -49.07 | 4.28 | - | 50.44 | Peak | 68.2 | Pass |
| NVNT | n20 | 5260 | Ant1 | 5150 | -57.38 | 4.28 | 0.28 | 42.41 | Average | 54 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5350 | -43.19 | 4.28 | - | 56.32 | Peak | 68.2 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5350 | -55.11 | 4.28 | 0.28 | 44.68 | Average | 54 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5350 | -43.19 | 4.28 | - | 56.32 | Peak | 68.2 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5350.6 | -54.82 | 4.28 | 0.28 | 44.97 | Average | 54 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5460 | -49.3 | 4.28 | - | 50.21 | Peak | 68.2 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5460 | -58.2 | 4.28 | 0.28 | 41.59 | Average | 54 | Pass |
| NVNT | n40 | 5270 | Ant1 | 4500 | -50.31 | 4.28 | - | 49.20 | Peak | 68.2 | Pass |
| NVNT | n40 | 5270 | Ant1 | 4500 | -59.05 | 4.28 | 0.55 | 41.01 | Average | 54 | Pass |
| NVNT | n40 | 5270 | Ant1 | 5113.17 | -46.23 | 4.28 | - | 53.28 | Peak | 68.2 | Pass |
| NVNT | n40 | 5270 | Ant1 | 4806.99 | -55.95 | 4.28 | 0.55 | 44.11 | Average | 54 | Pass |
| NVNT | n40 | 5270 | Ant1 | 5150 | -48.55 | 4.28 | - | 50.96 | Peak | 68.2 | Pass |
| NVNT | n40 | 5270 | Ant1 | 5150 | -56.92 | 4.28 | 0.55 | 43.14 | Average | 54 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5350 | -45.33 | 4.28 | - | 54.18 | Peak | 68.2 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5350 | -54.21 | 4.28 | 0.54 | 45.84 | Average | 54 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5350.2 | -42.67 | 4.28 | - | 56.84 | Peak | 68.2 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5350 | -54.21 | 4.28 | 0.54 | 45.84 | Average | 54 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5460 | -51.62 | 4.28 | - | 47.89 | Peak | 68.2 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5460 | -57.56 | 4.28 | 0.54 | 42.49 | Average | 54 | Pass |



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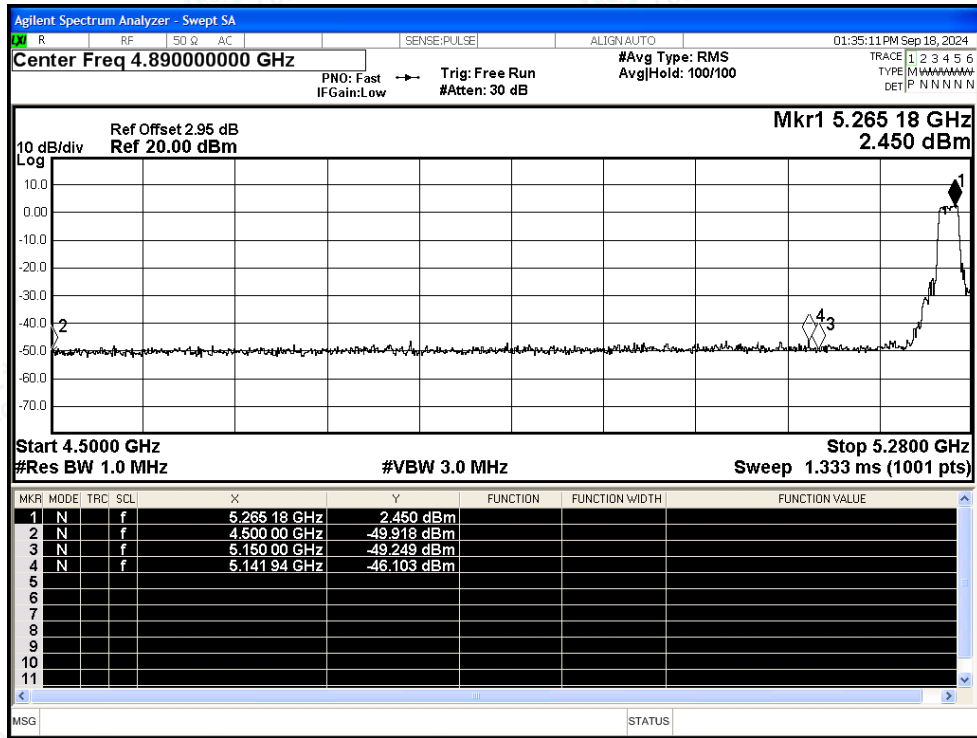
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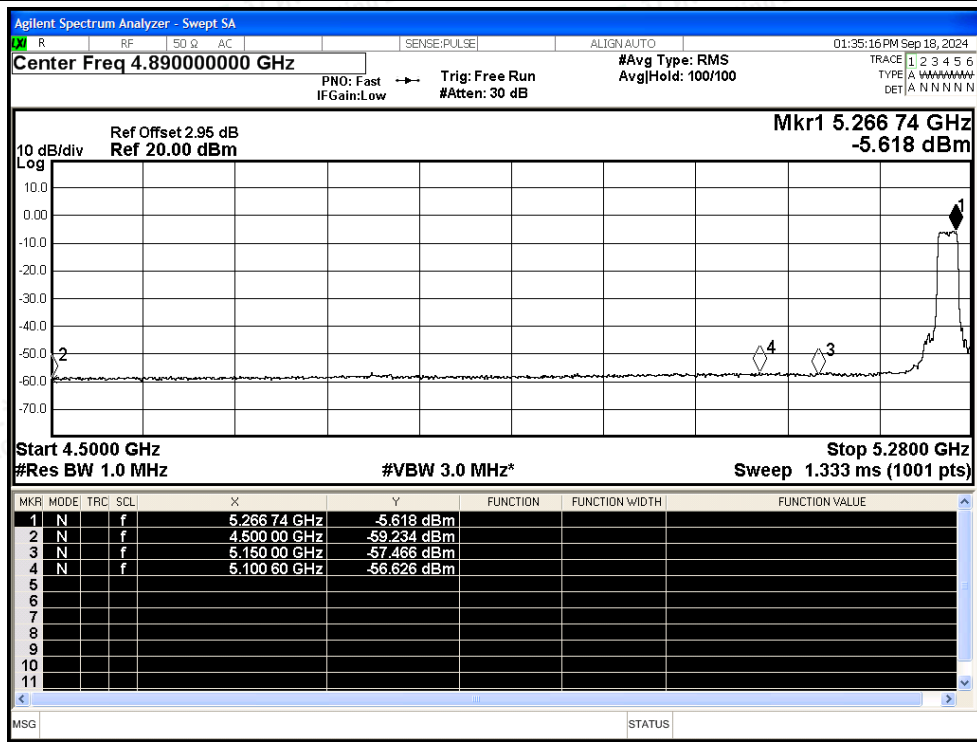


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average



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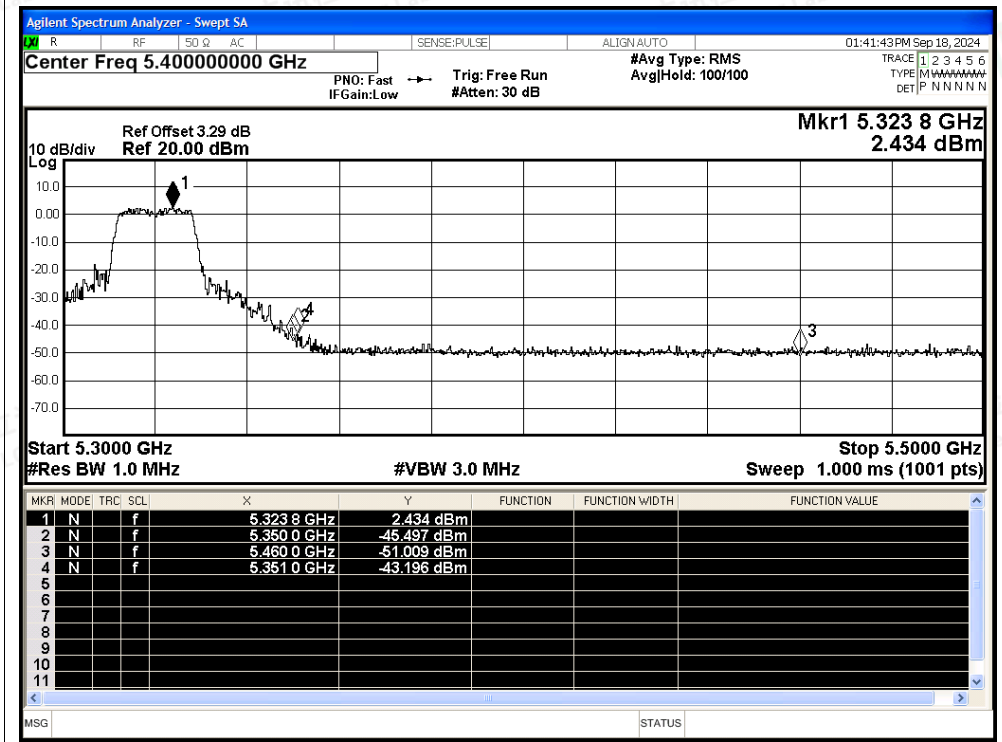
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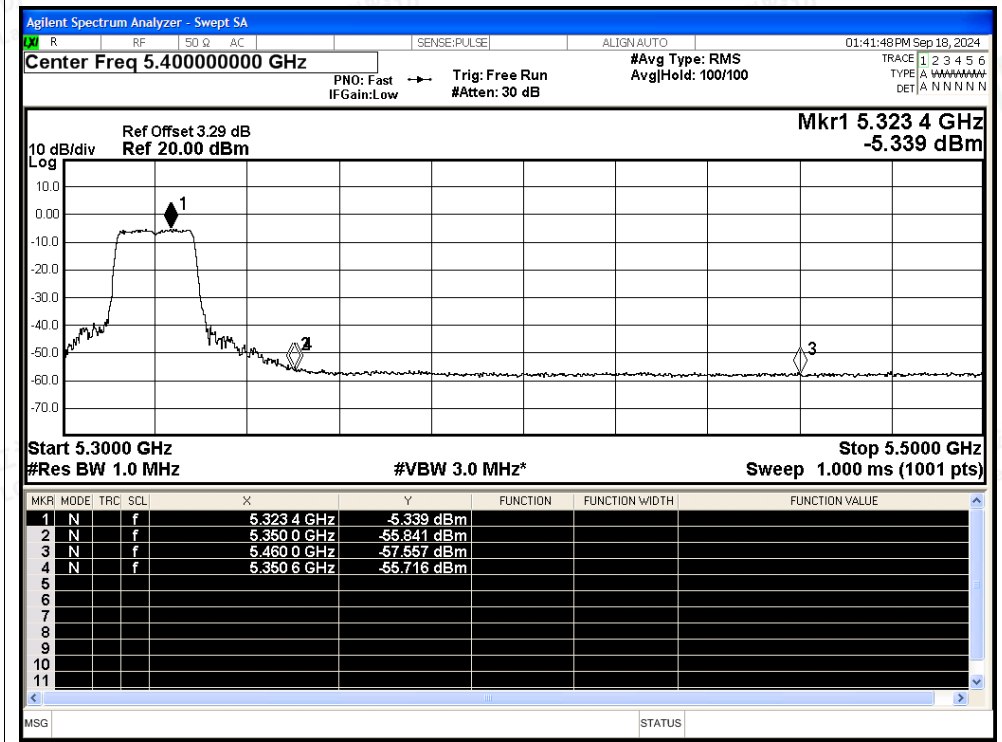
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Restrict Band NVNT a 5320MHz Ant1 Peak



Restrict Band NVNT a 5320MHz Ant1 Average



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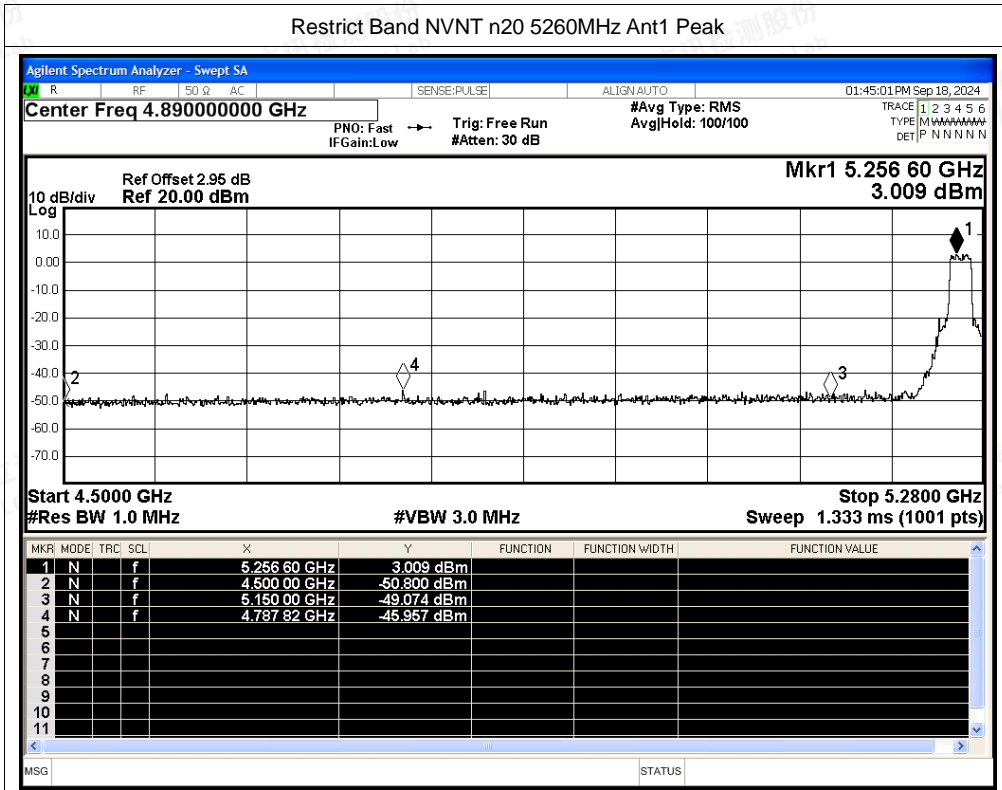
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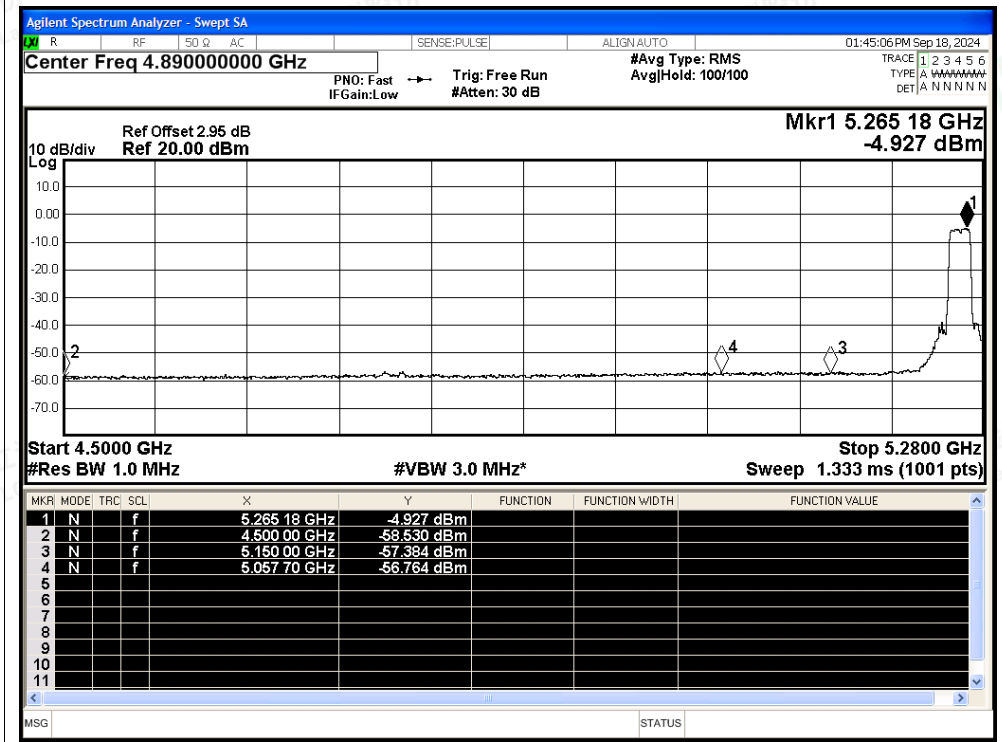
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Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average



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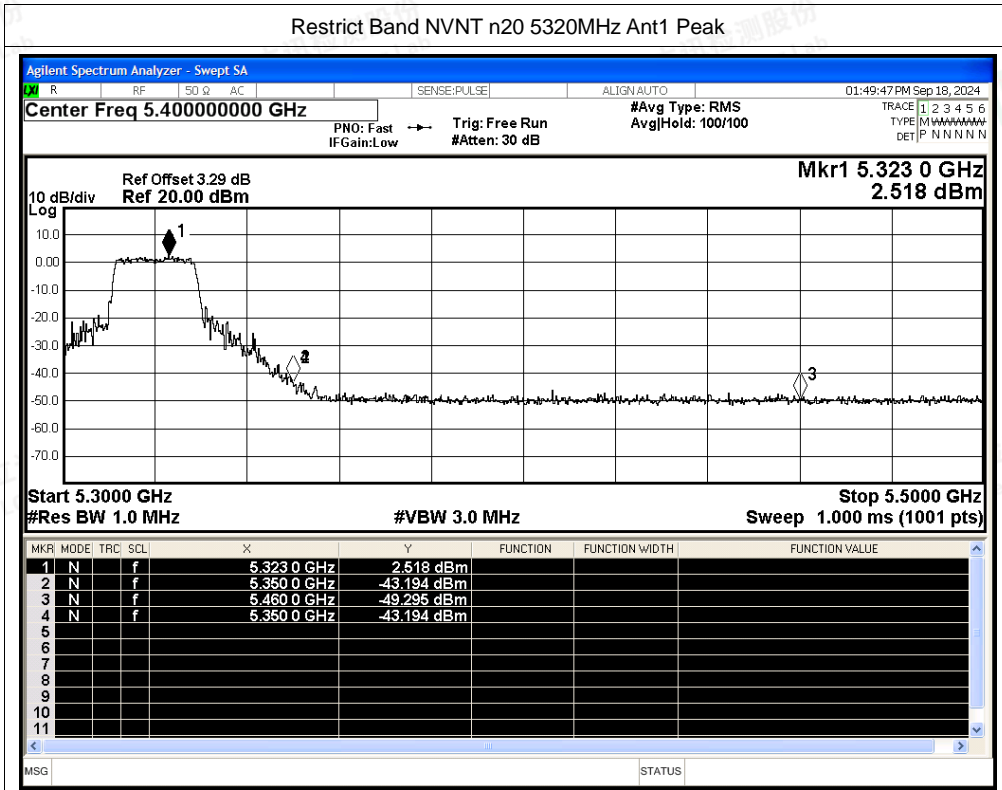
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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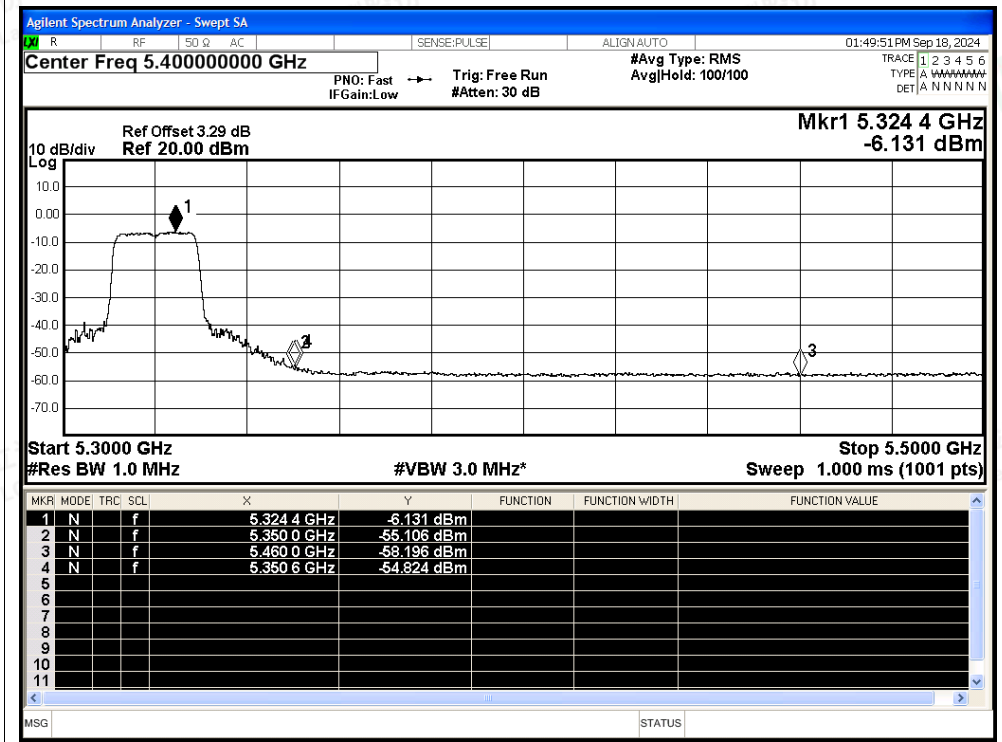
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Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average

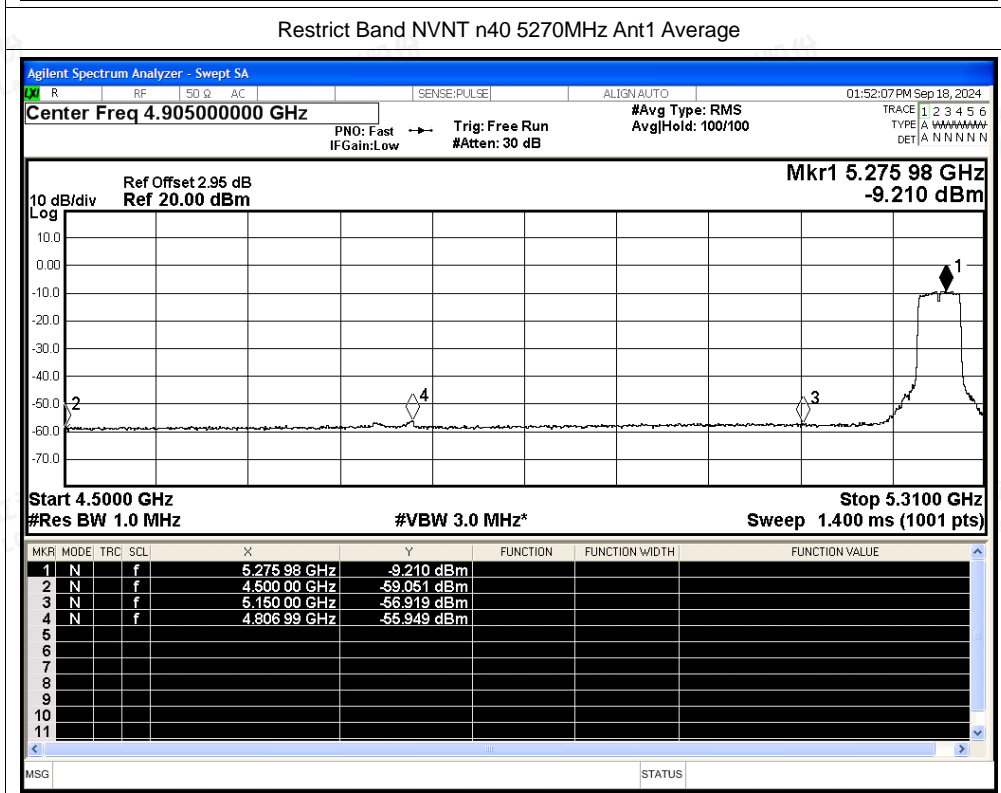
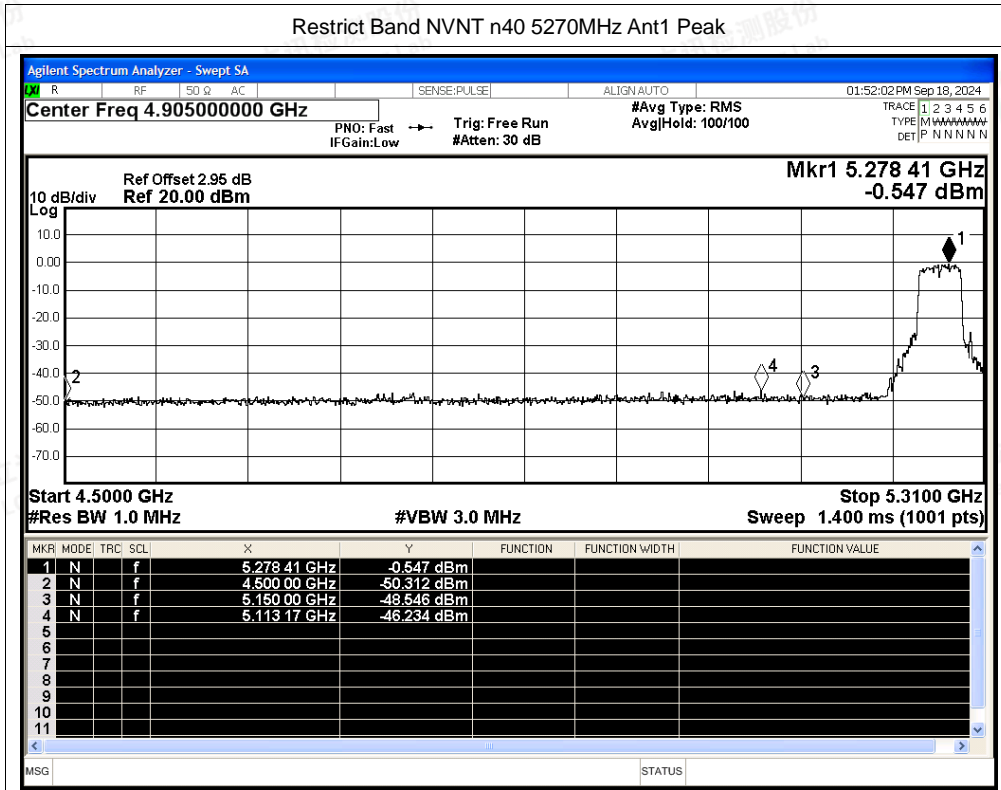


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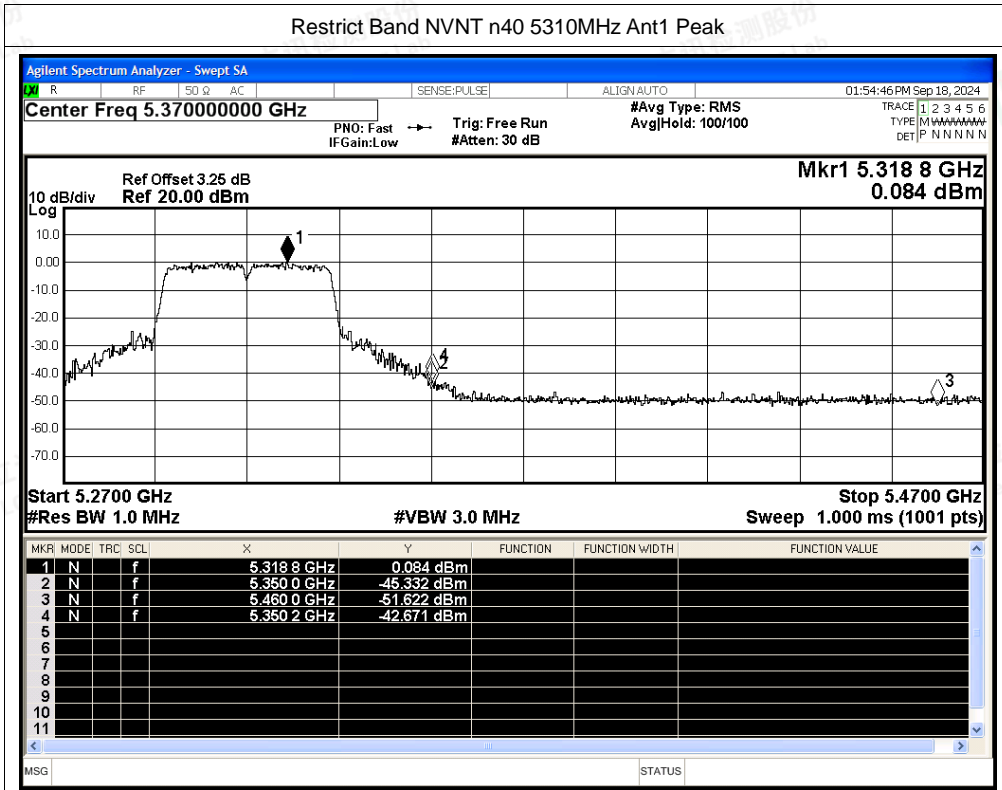
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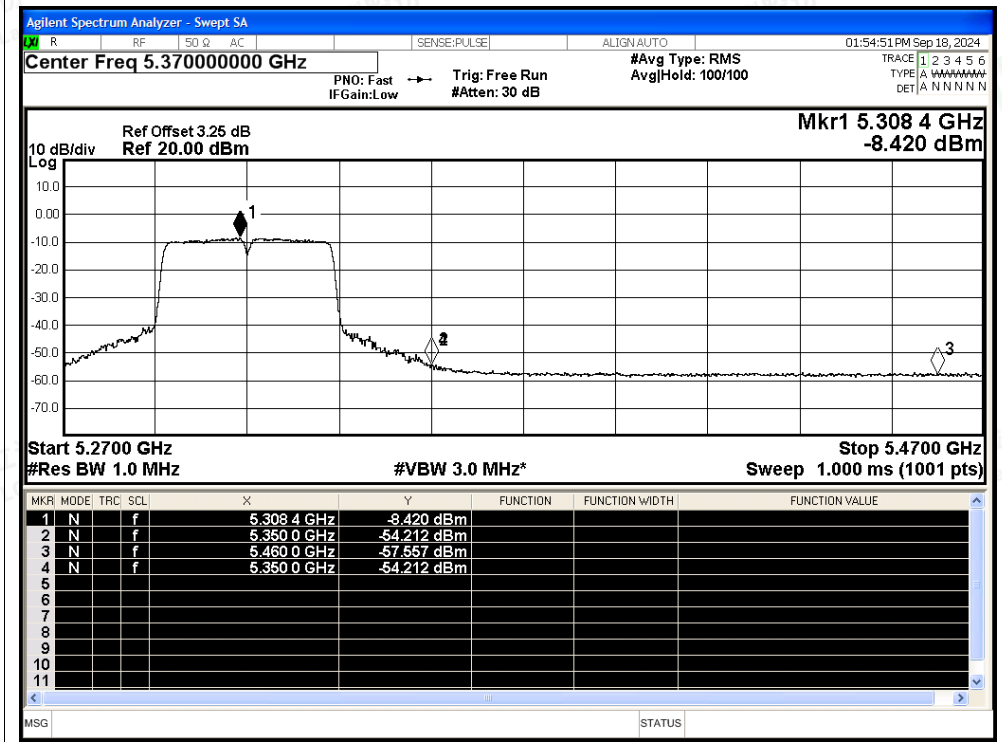
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Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



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E.5 Frequency Stability

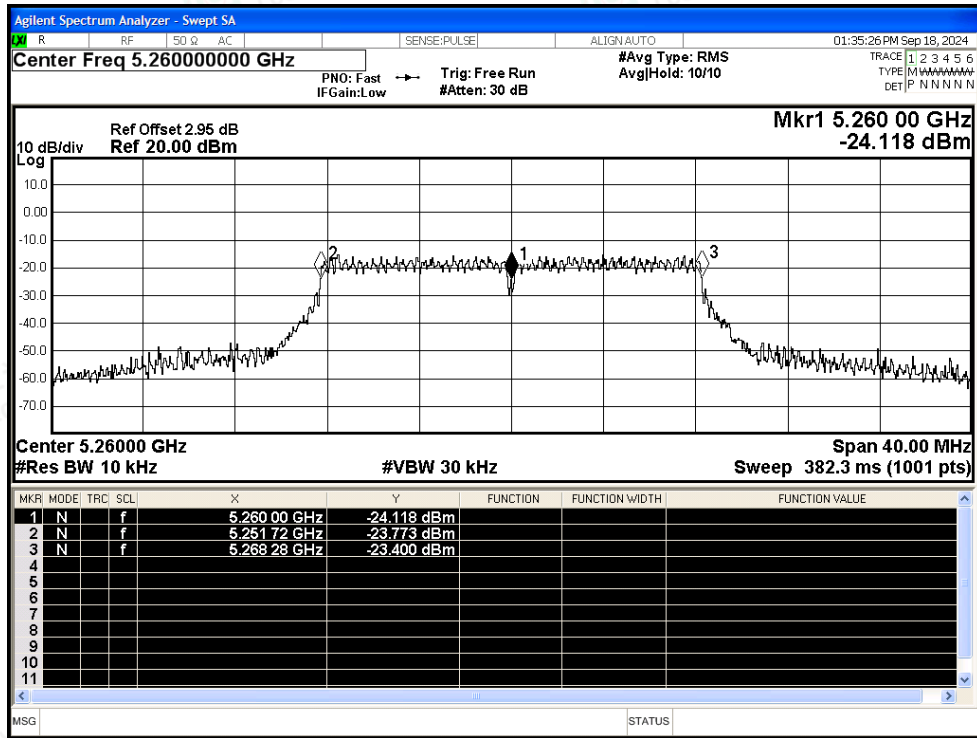
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT | a | 5260 | Ant1 | 5260 | 0 | 0 | 25 | Pass |
| NVNT | a | 5300 | Ant1 | 5300 | 0 | 0 | 25 | Pass |
| NVNT | a | 5320 | Ant1 | 5320 | 0 | 0 | 25 | Pass |
| NVNT | n20 | 5260 | Ant1 | 5259.98 | -20000 | -3.8 | 25 | Pass |
| NVNT | n20 | 5300 | Ant1 | 5299.98 | -20000 | -3.77 | 25 | Pass |
| NVNT | n20 | 5320 | Ant1 | 5320 | 0 | 0 | 25 | Pass |
| NVNT | n40 | 5270 | Ant1 | 5270 | 0 | 0 | 25 | Pass |
| NVNT | n40 | 5310 | Ant1 | 5309.96 | -40000 | -7.53 | 25 | Pass |



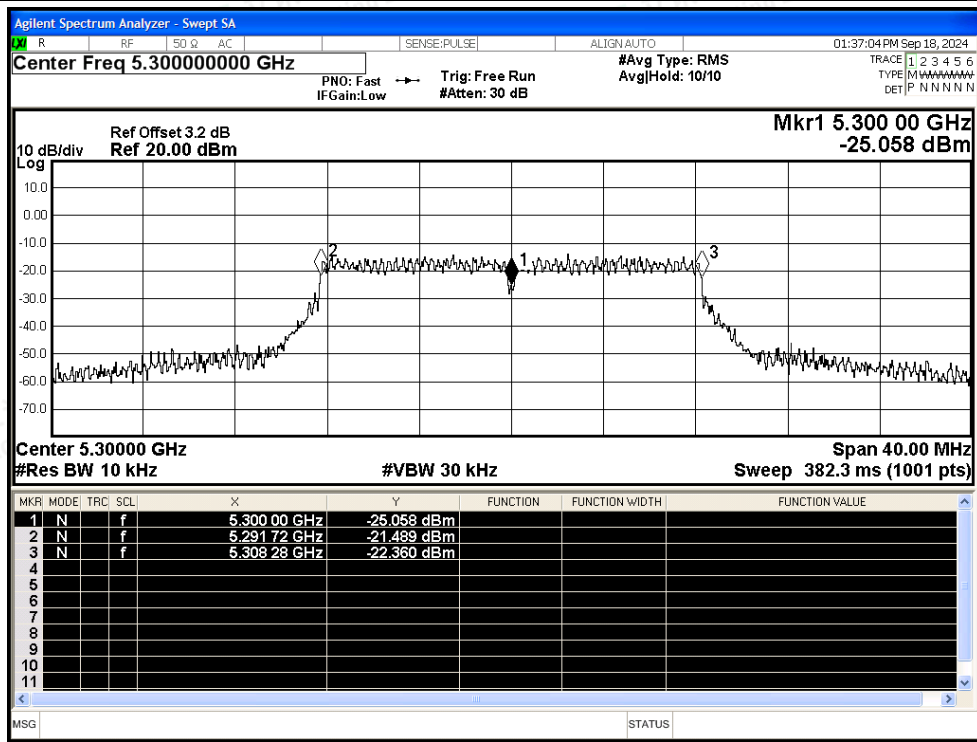


Test Graphs

Freq. Stability NVNT a 5260MHz Ant1



Freq. Stability NVNT a 5300MHz Ant1



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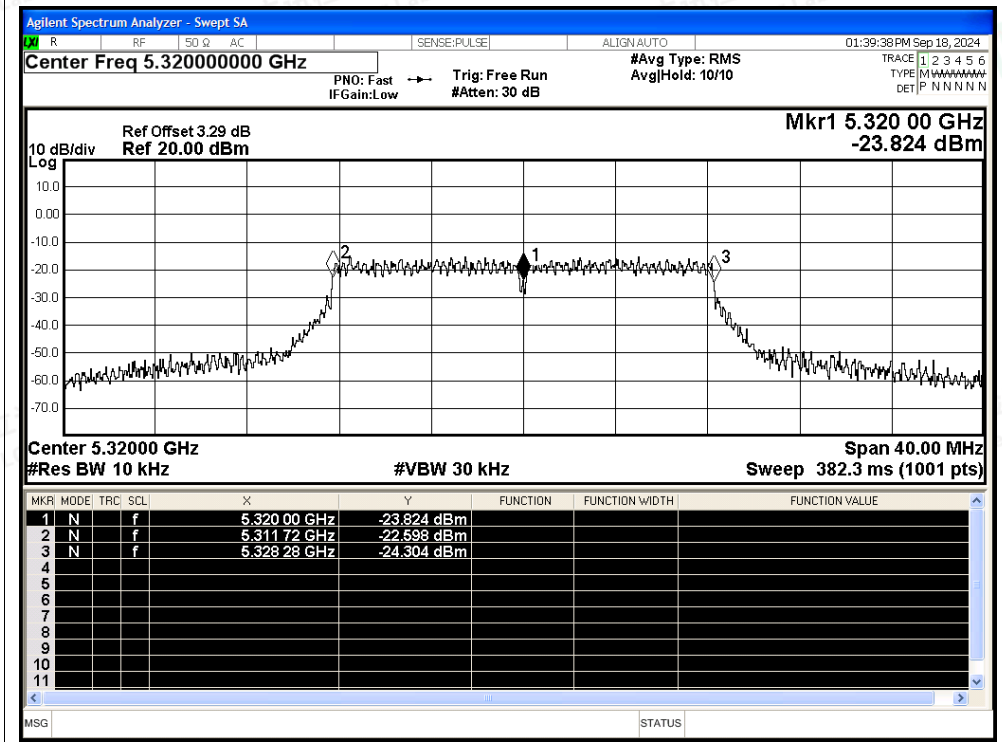
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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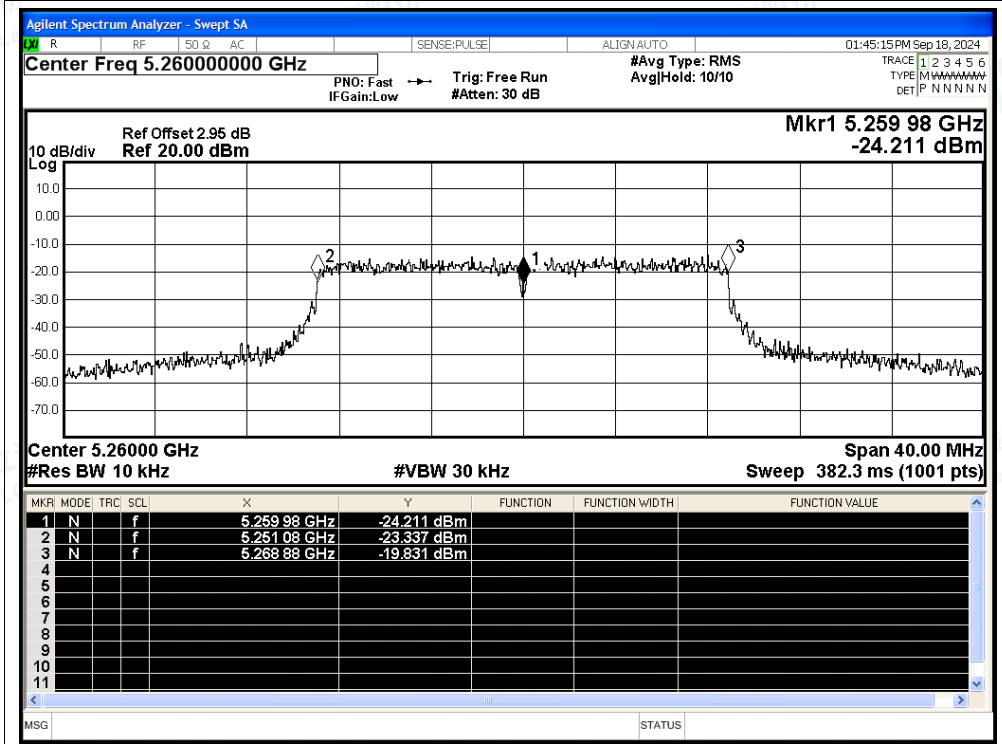
Scan code to check authenticity



Freq. Stability NVNT a 5320MHz Ant1



Freq. Stability NVNT n20 5260MHz Ant1



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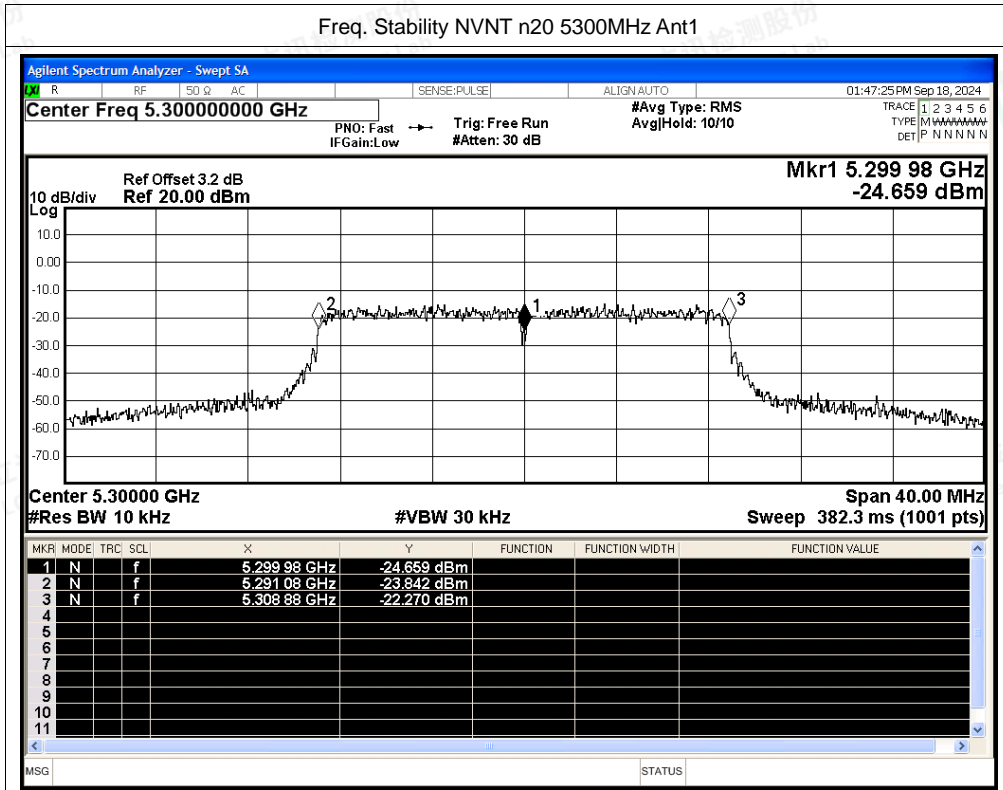
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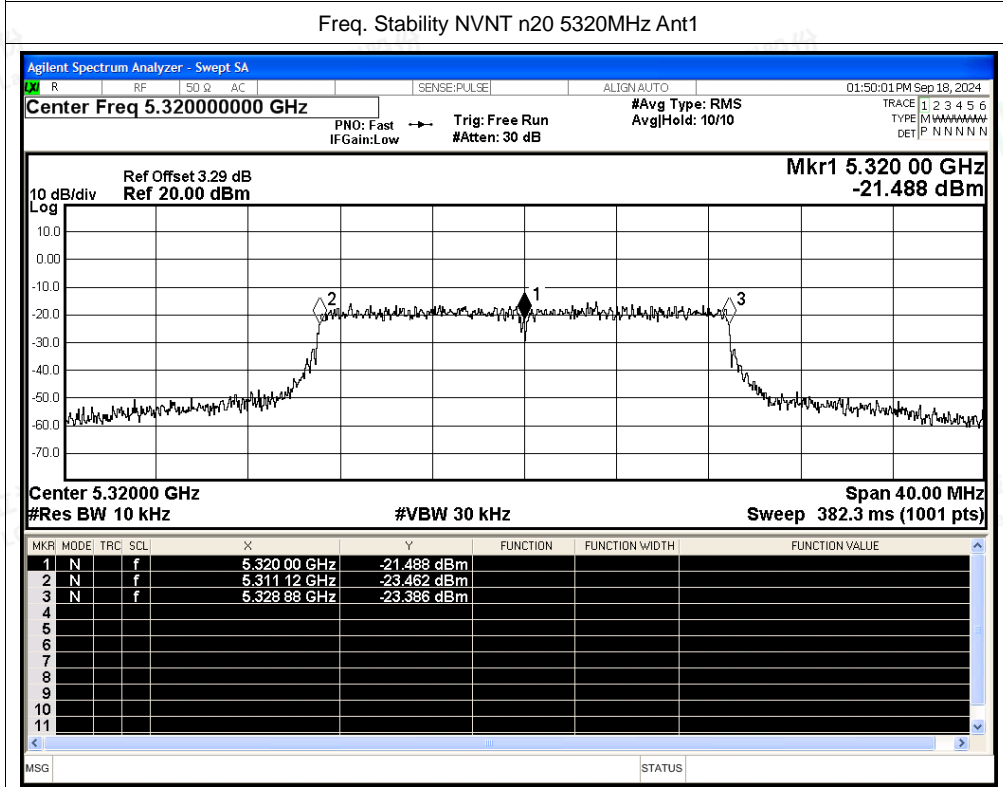
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Freq. Stability NVNT n20 5300MHz Ant1



Freq. Stability NVNT n20 5320MHz Ant1

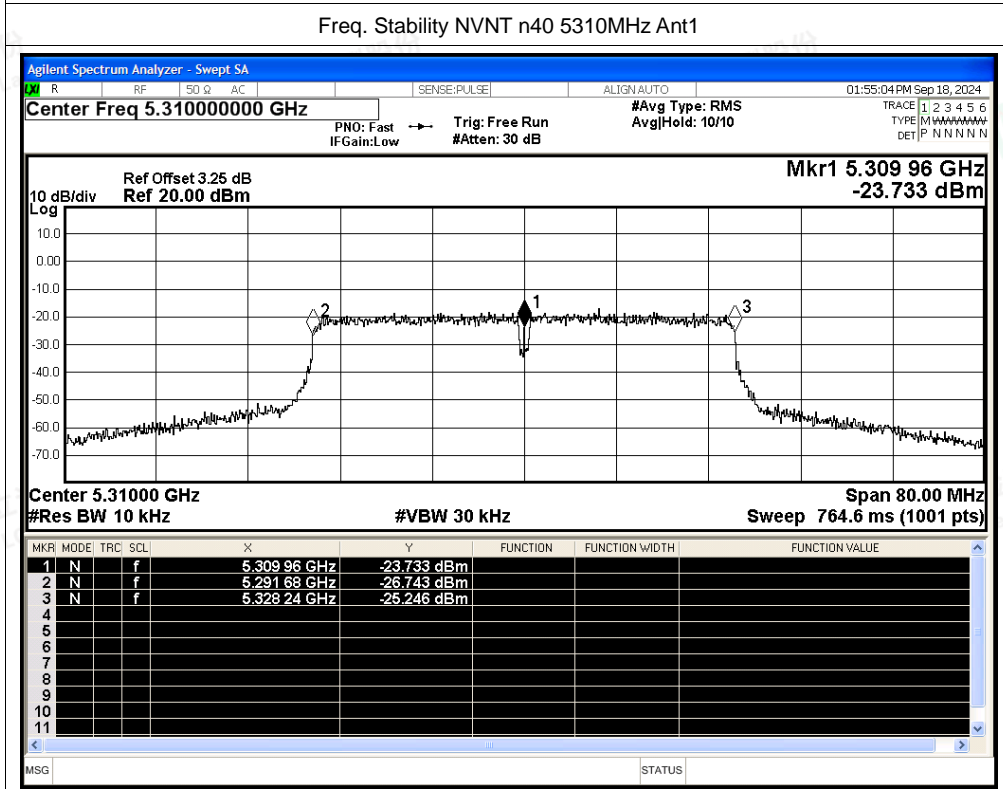
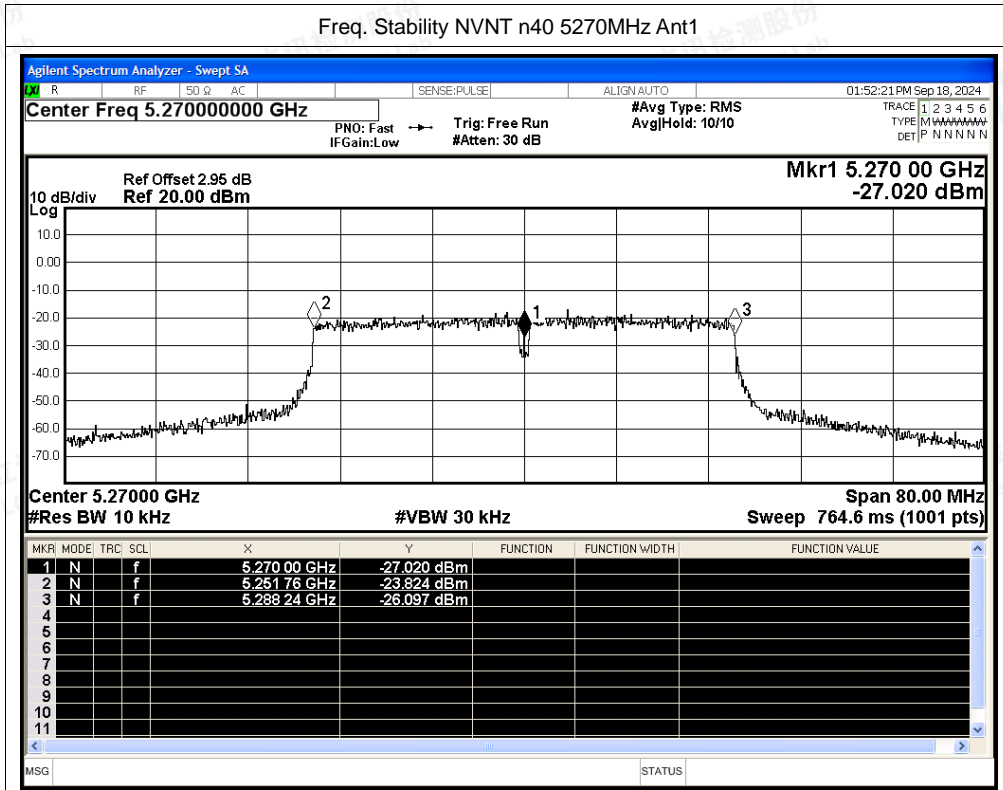


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E.6 Duty Cycle

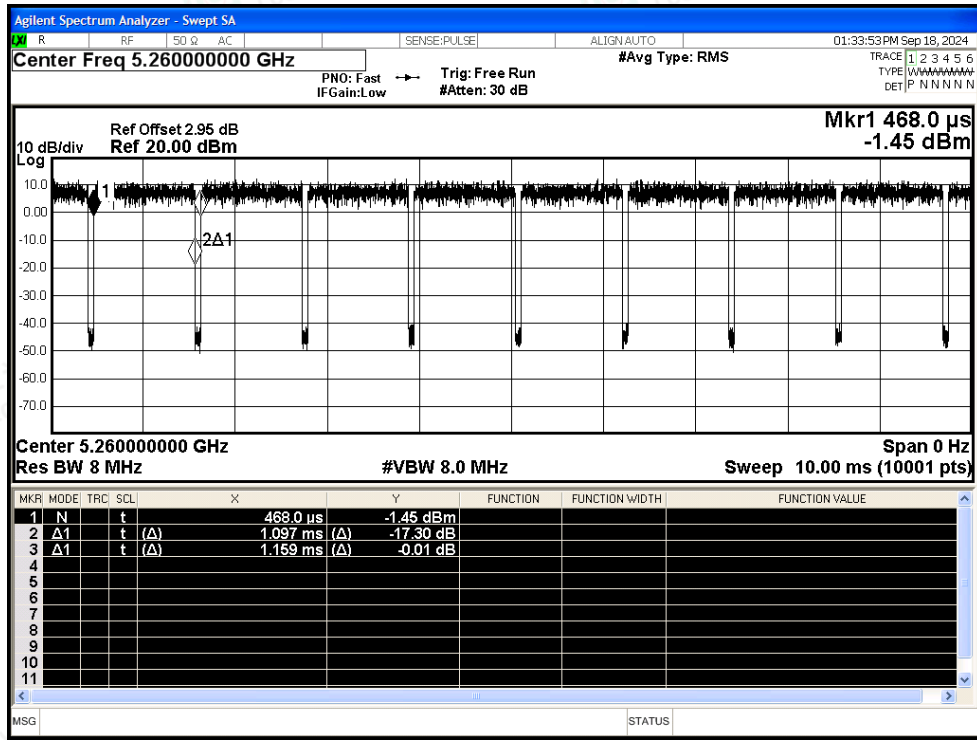
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | a | 5260 | Ant1 | 94.65 | 0.24 | 0.91 |
| NVNT | a | 5300 | Ant1 | 94.56 | 0.24 | 0.91 |
| NVNT | a | 5320 | Ant1 | 94.56 | 0.24 | 0.91 |
| NVNT | n20 | 5260 | Ant1 | 93.67 | 0.28 | 1.07 |
| NVNT | n20 | 5300 | Ant1 | 93.67 | 0.28 | 1.07 |
| NVNT | n20 | 5320 | Ant1 | 93.77 | 0.28 | 1.07 |
| NVNT | n40 | 5270 | Ant1 | 88.14 | 0.55 | 2.14 |
| NVNT | n40 | 5310 | Ant1 | 88.32 | 0.54 | 2.13 |



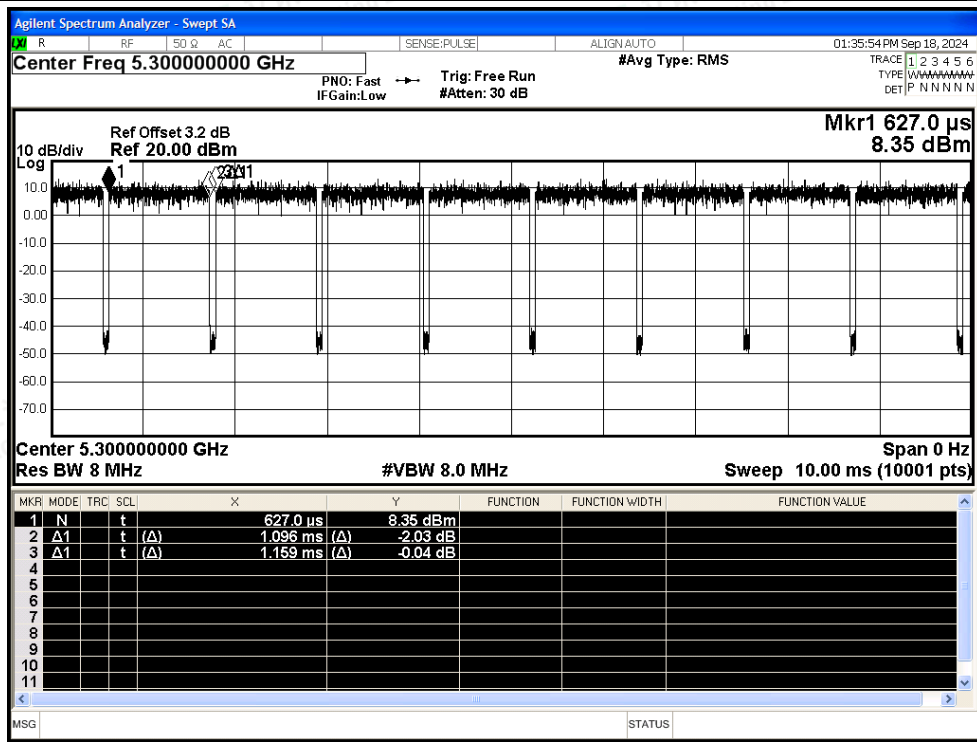


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5300MHz Ant1



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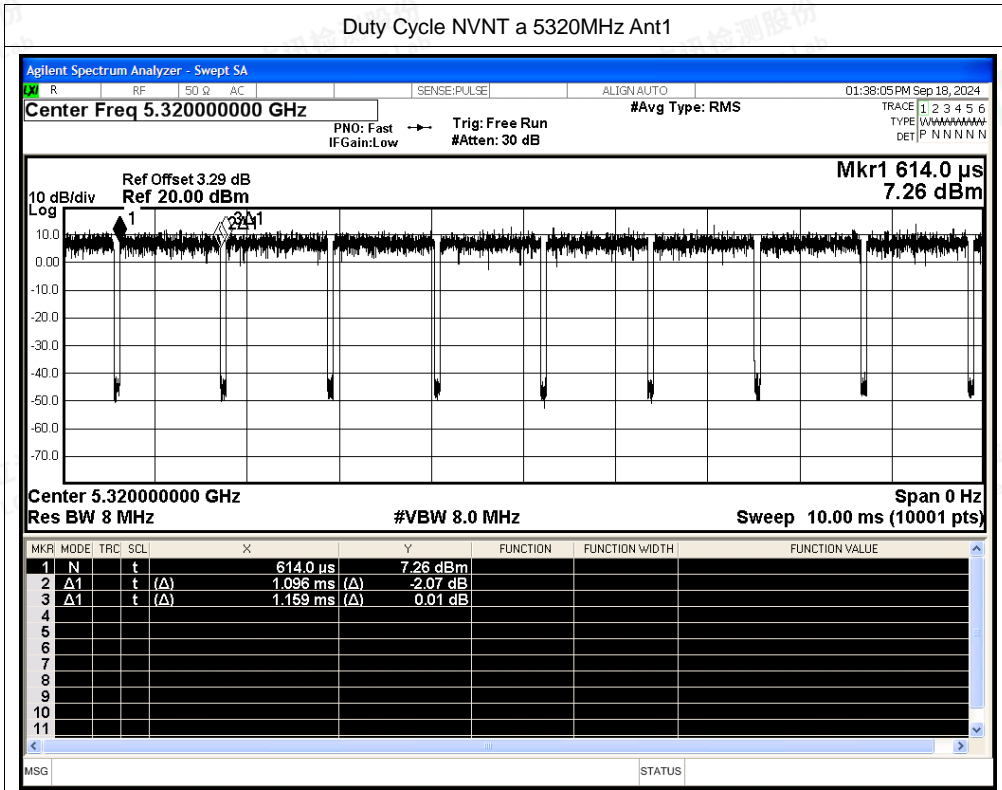
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

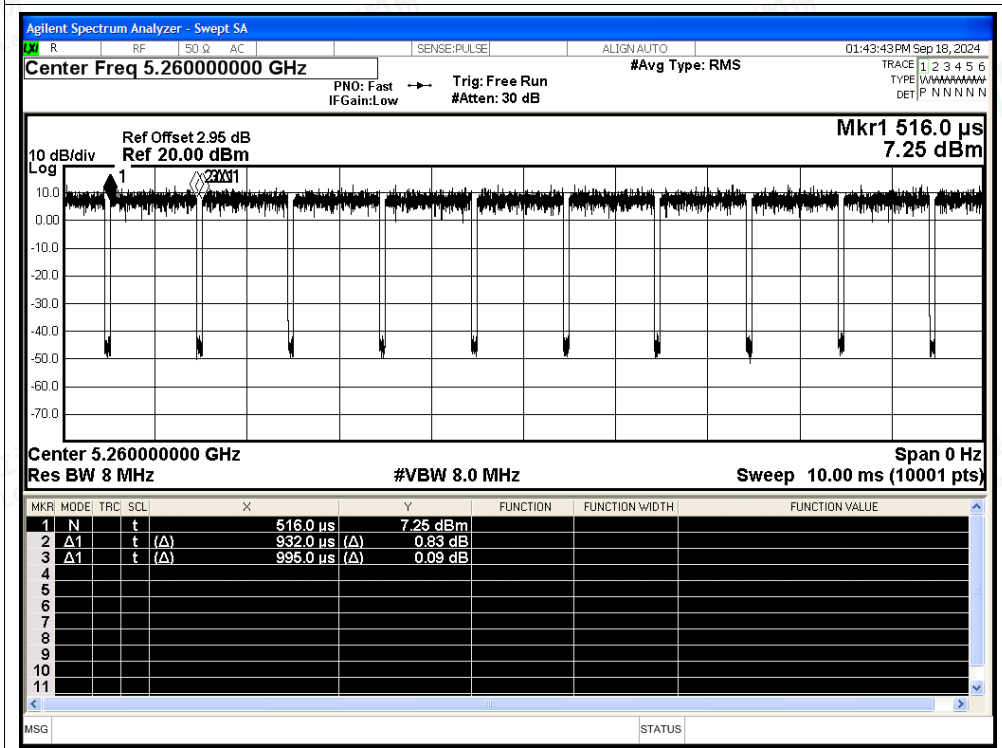
Scan code to check authenticity



Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

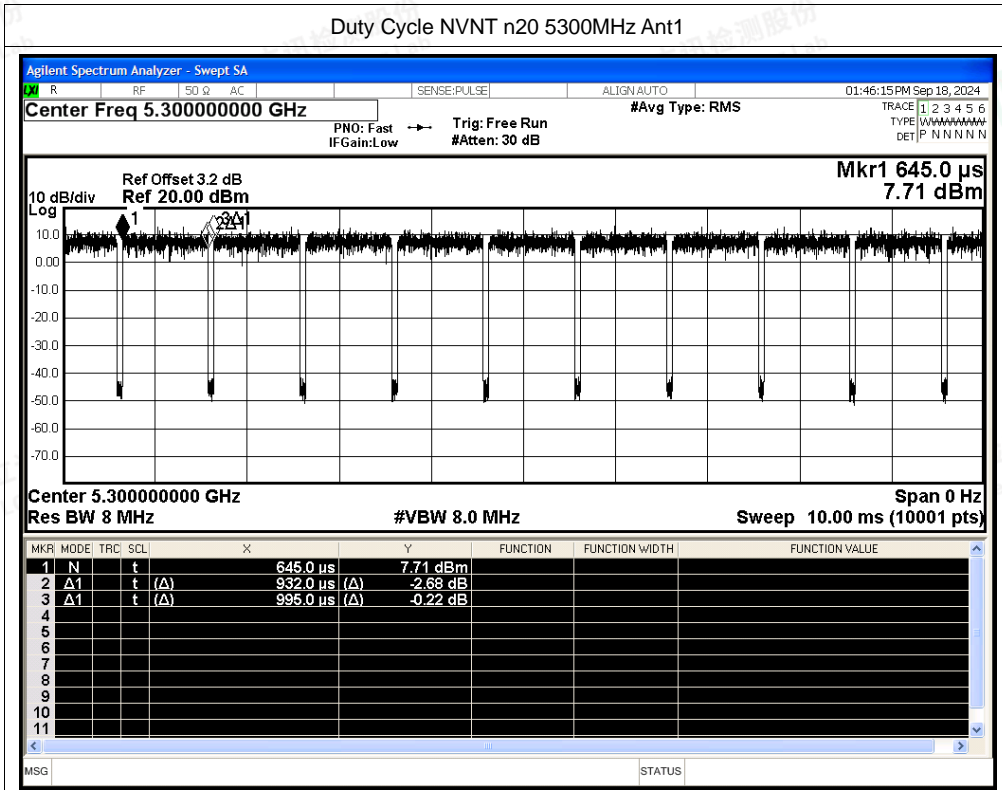
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

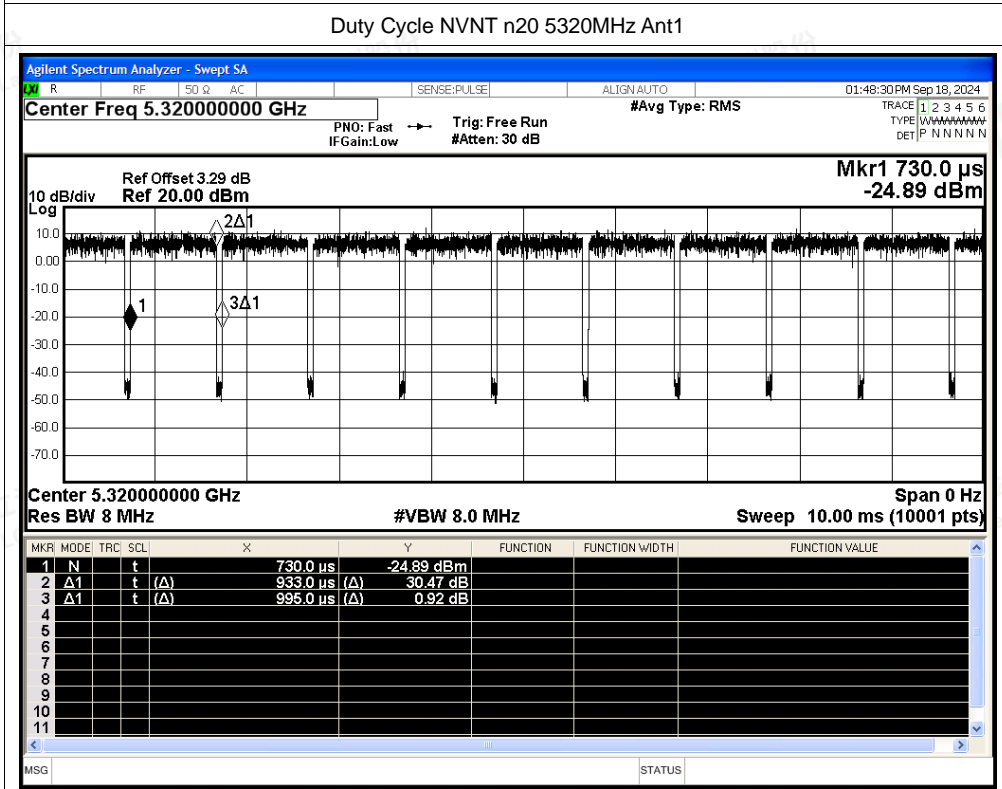
Scan code to check authenticity



Duty Cycle NVNT n20 5300MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

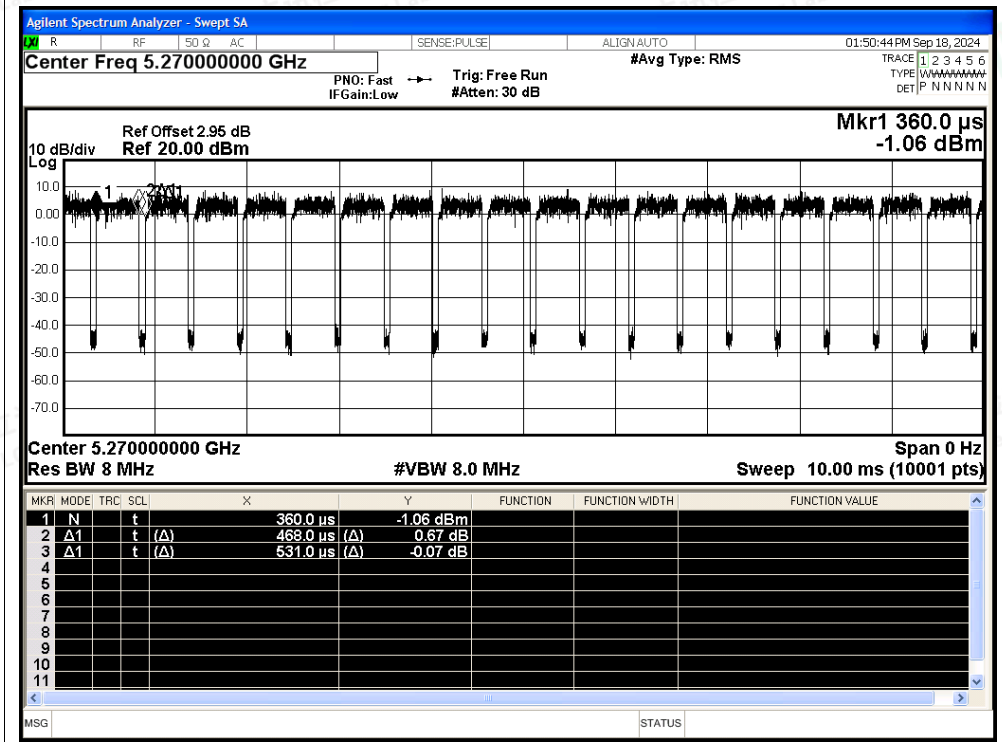
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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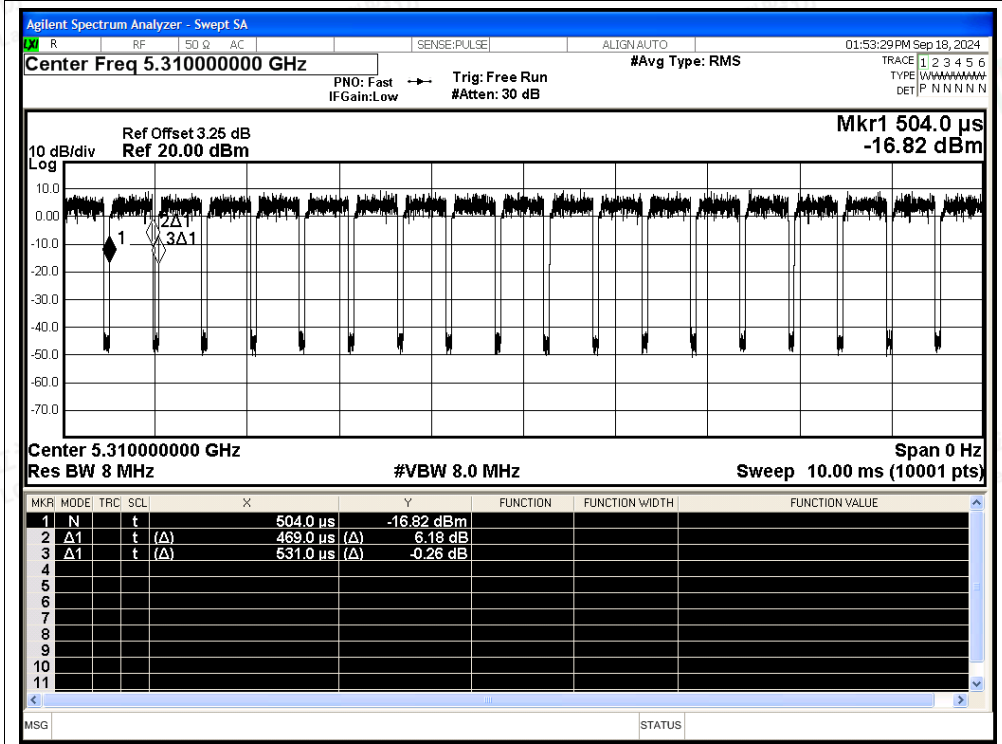
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Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



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