

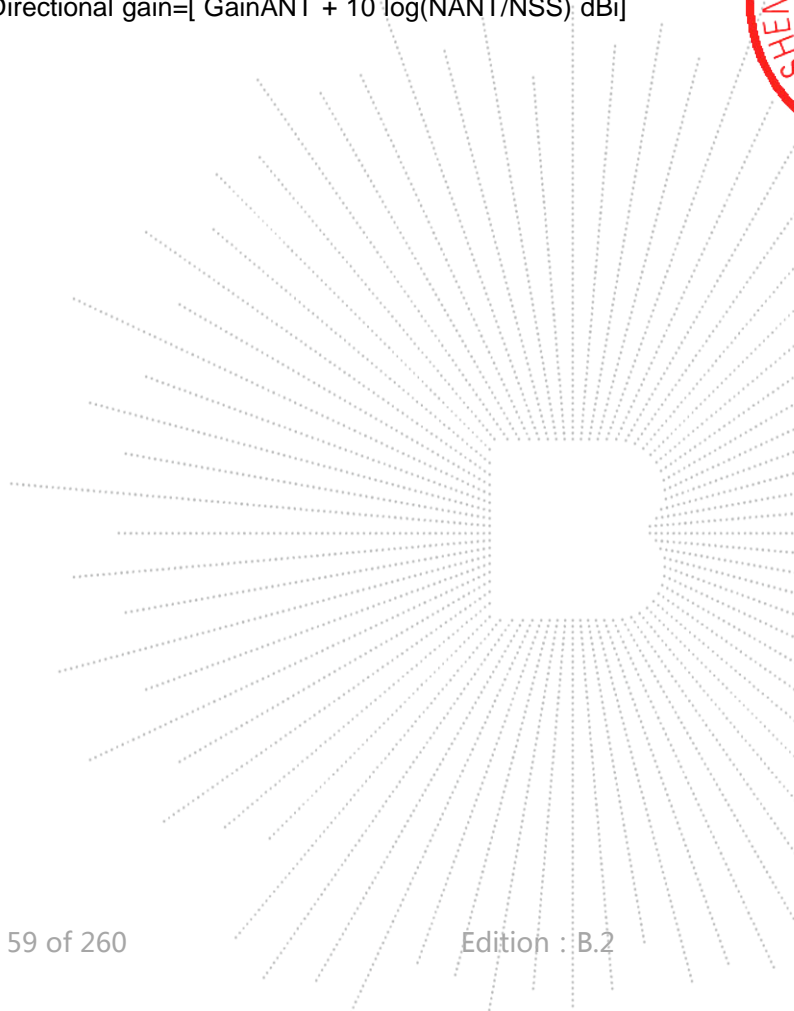
| | | | |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode: | (5260-5320MHz) | | |

| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/MHz) | | Total (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|-------------------------|--------|-----------------|-----------------|---------|
| | | | Ant A | Ant B | | | |
| NVNT | a | 5260 | 5.77 | 9.05 | / | 11 | Pass |
| NVNT | a | 5280 | 6.08 | 9.1 | / | 11 | Pass |
| NVNT | a | 5320 | 7.75 | 8.99 | / | 11 | Pass |
| NVNT | n20 | 5260 | 3.72 | 7.57 | 9.07 | 9.4 | Pass |
| NVNT | n20 | 5280 | 0.28 | -2.11 | 2.26 | 9.4 | Pass |
| NVNT | n20 | 5320 | 0.79 | -3.92 | 2.05 | 9.4 | Pass |
| NVNT | n40 | 5270 | -5.02 | -5.88 | -2.42 | 9.4 | Pass |
| NVNT | n40 | 5310 | -4.21 | -11.84 | -3.52 | 9.4 | Pass |
| NVNT | ac20 | 5260 | -1.47 | -1.38 | 1.59 | 9.4 | Pass |
| NVNT | ac20 | 5280 | -1.94 | -2.18 | 0.95 | 9.4 | Pass |
| NVNT | ac20 | 5320 | -1.09 | -0.92 | 2.01 | 9.4 | Pass |
| NVNT | ac40 | 5270 | -3.15 | -9.78 | -2.30 | 9.4 | Pass |
| NVNT | ac40 | 5310 | -4.14 | -15.93 | -3.86 | 9.4 | Pass |
| NVNT | ac80 | 5290 | -9.44 | -11.14 | -7.20 | 9.4 | Pass |

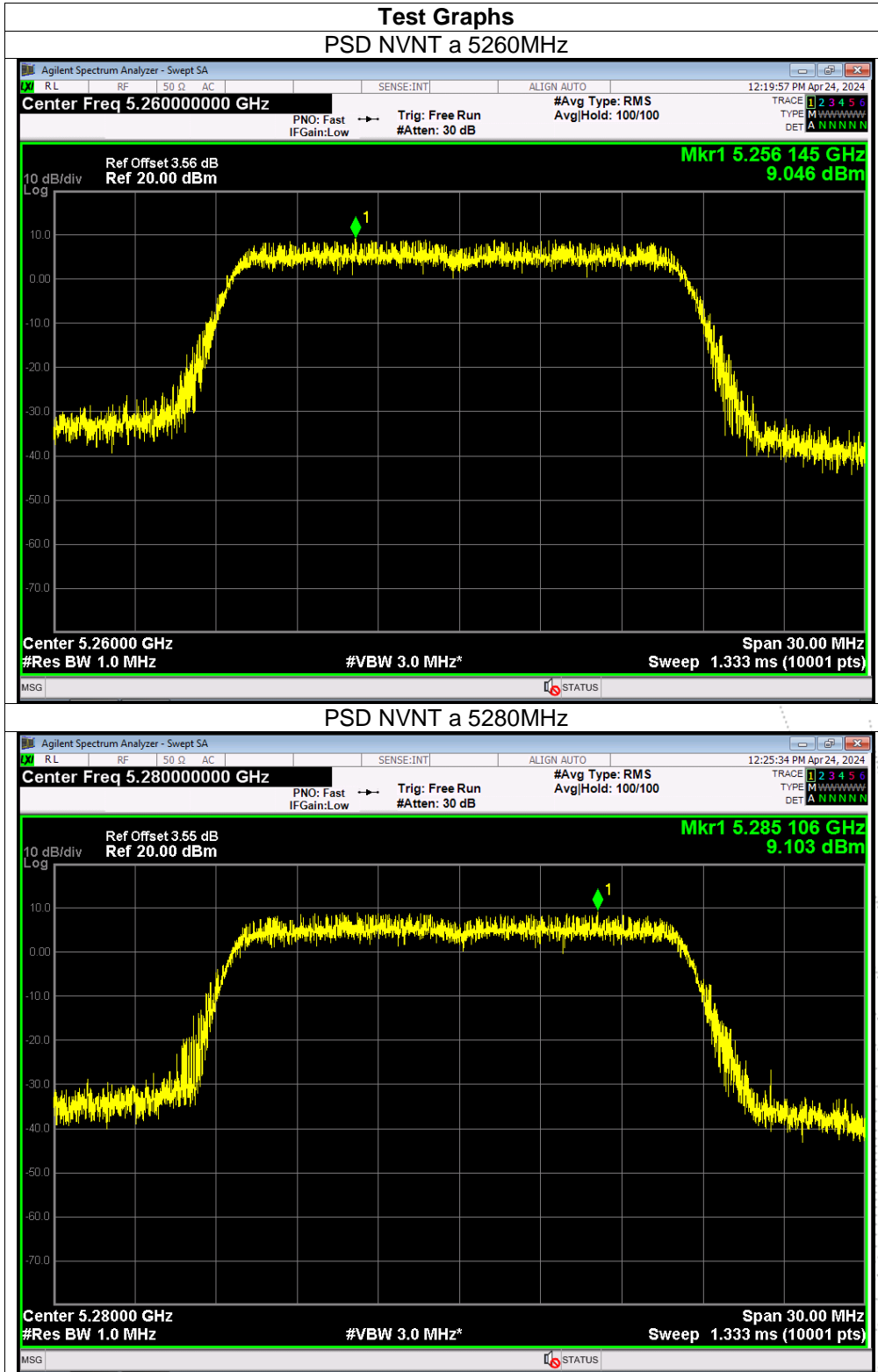
Note:

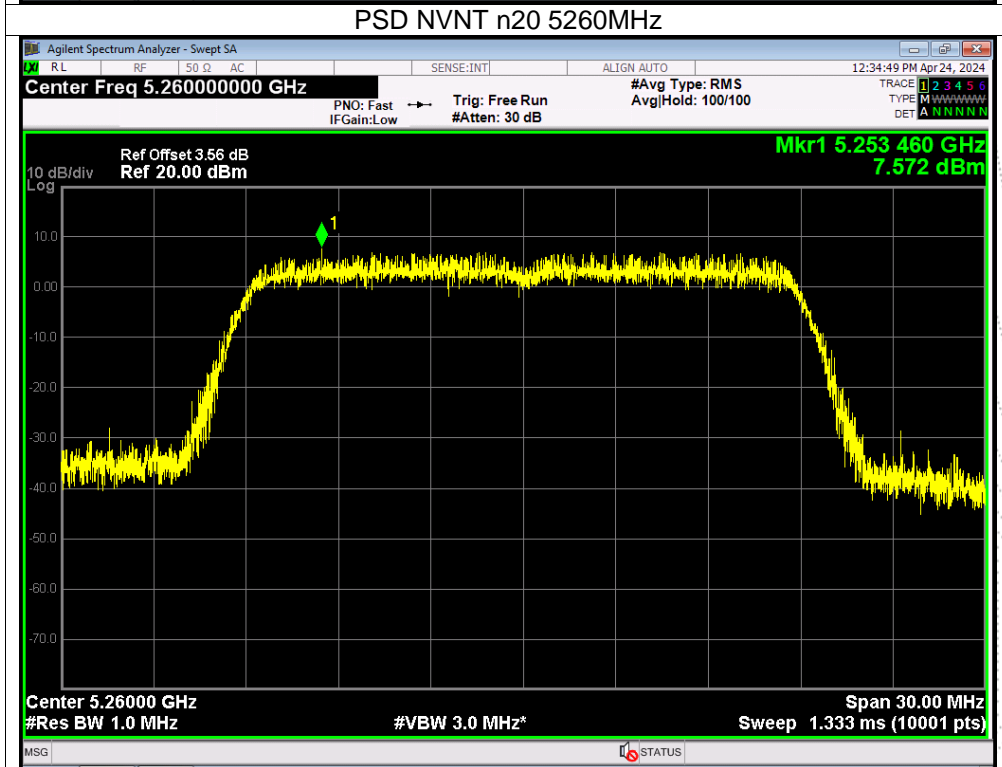
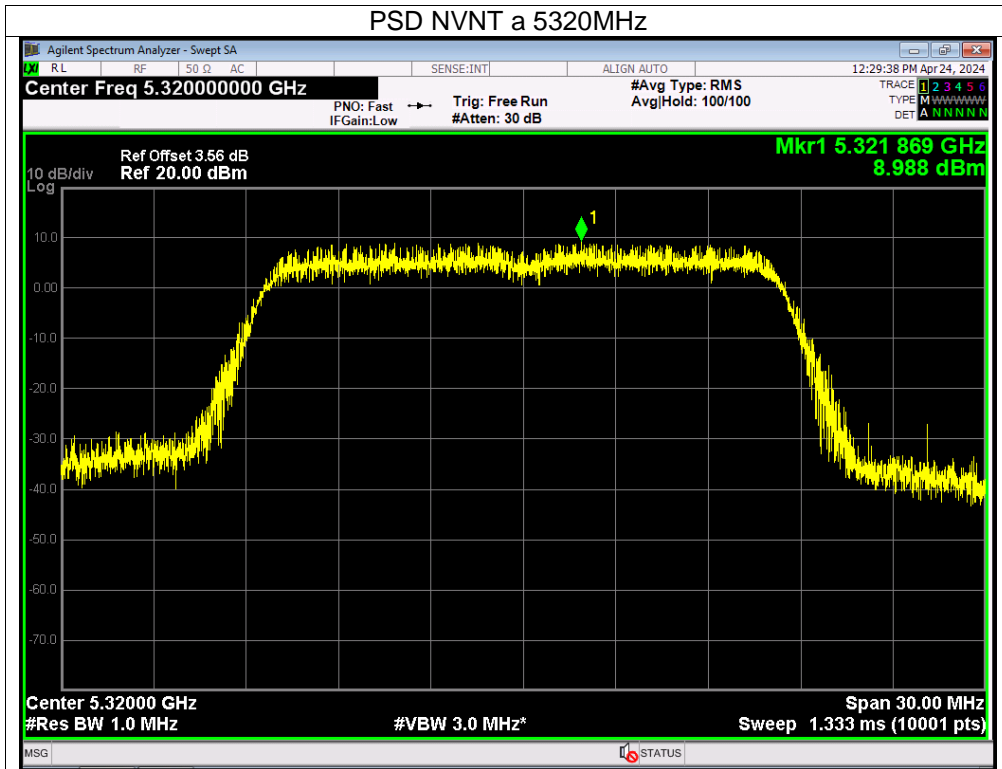
Antenna A gain: 4.59 dBi, Antenna B gain: 3.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=7.6 dBi>6dBi

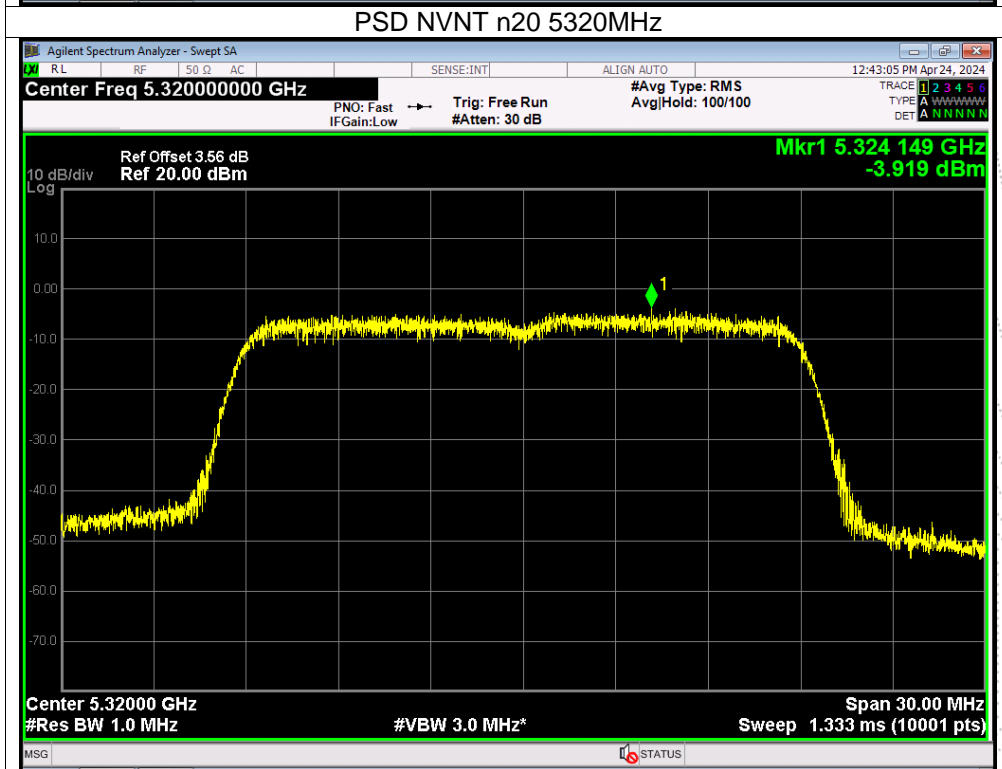
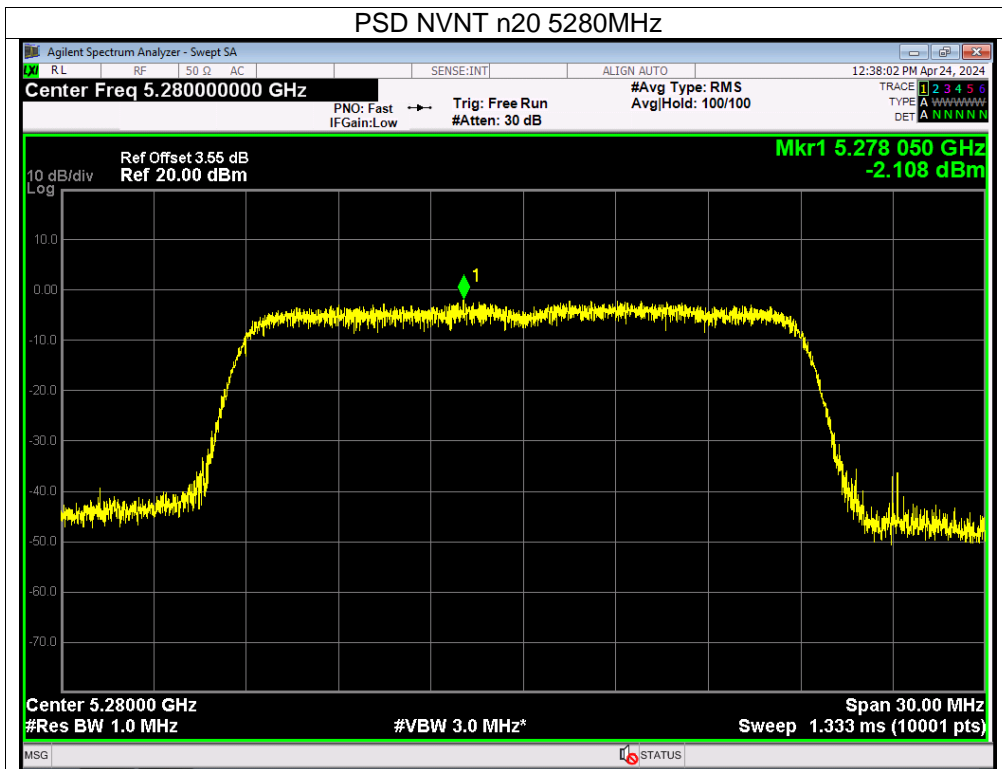
Limit=11-(7.6-6)=9.4 dBi

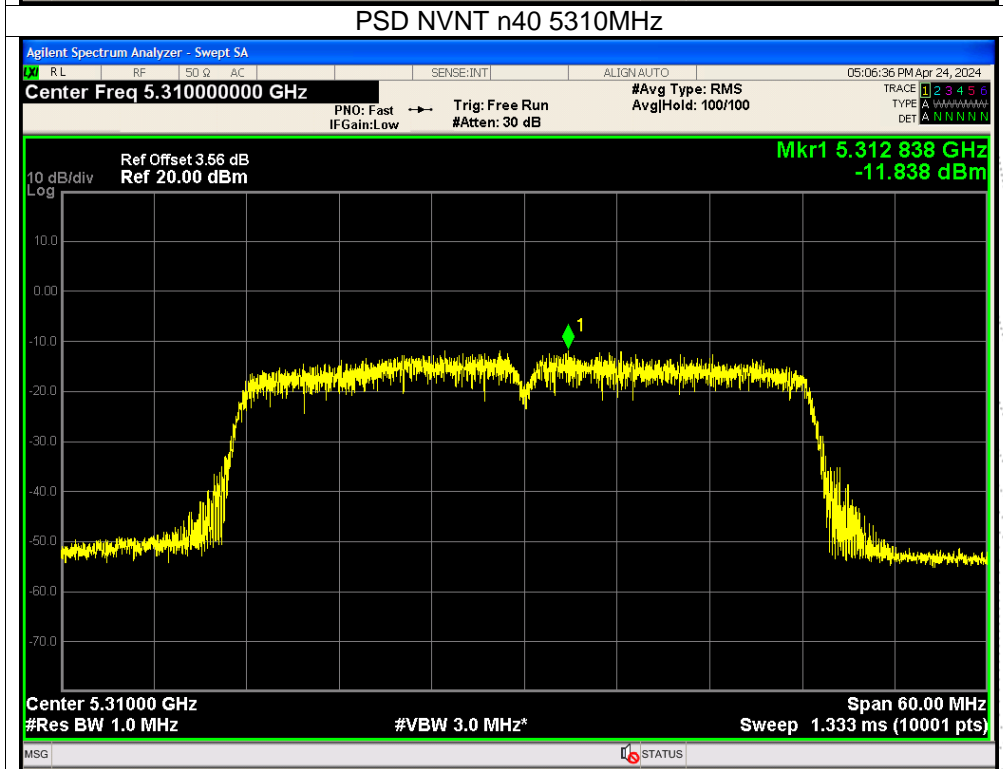
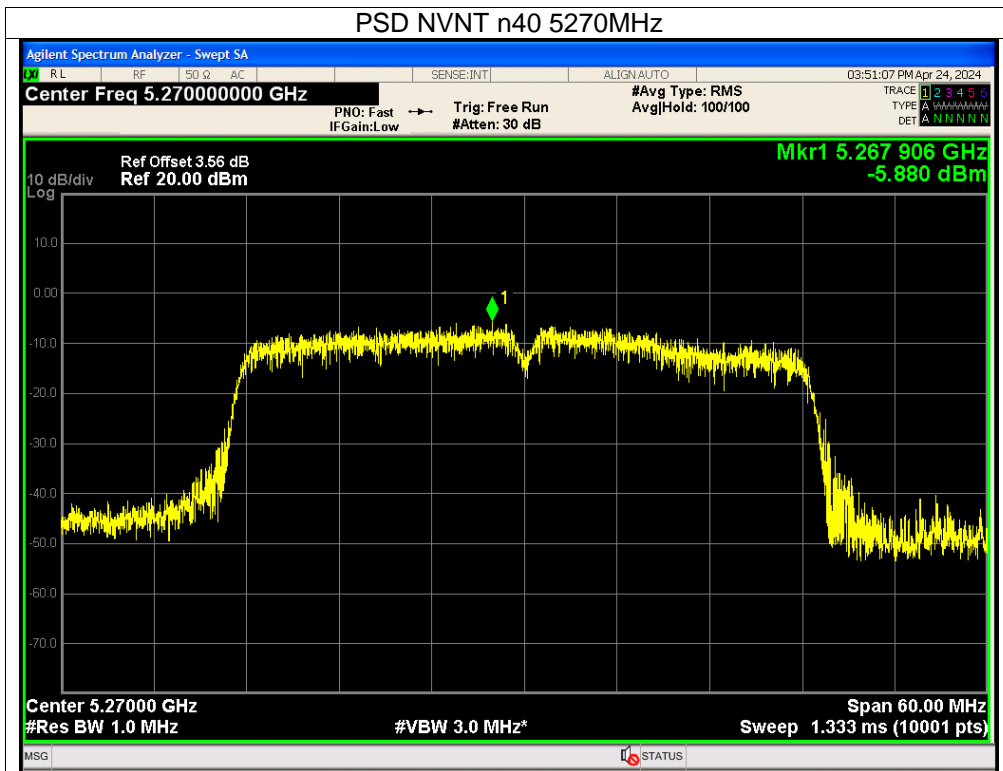



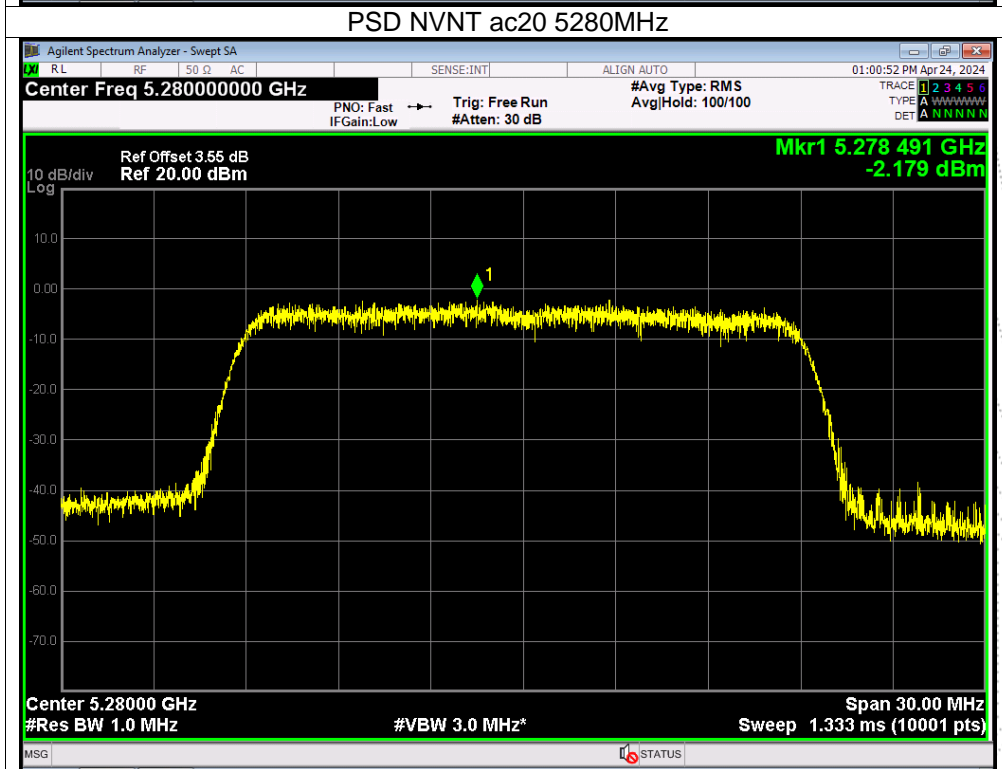
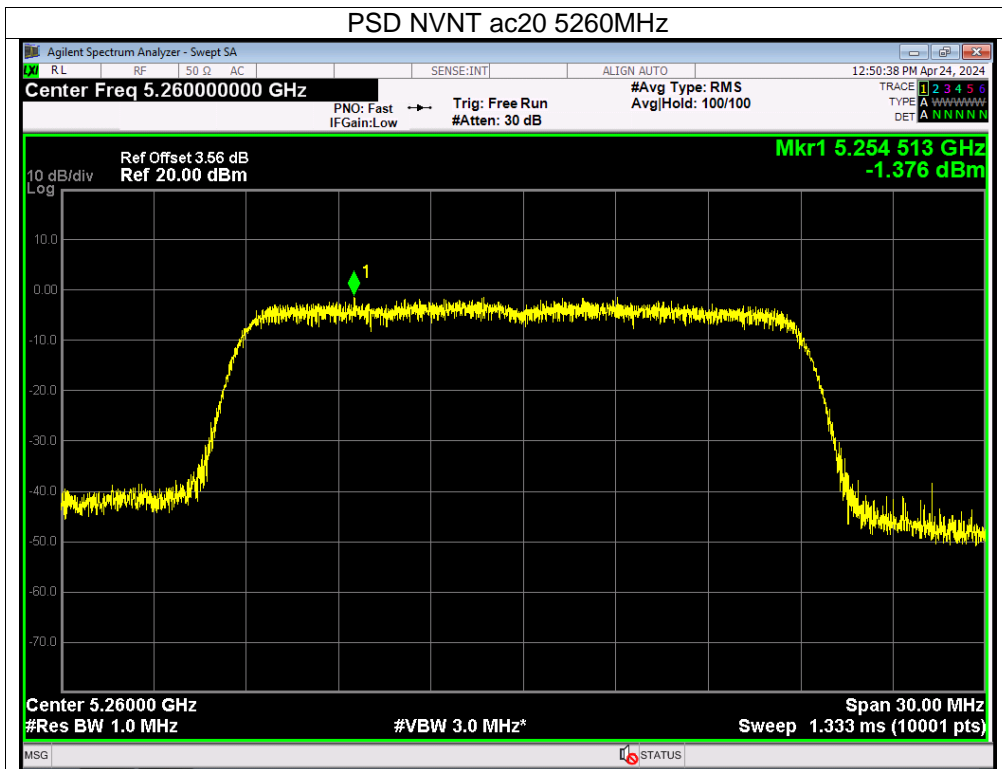
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.



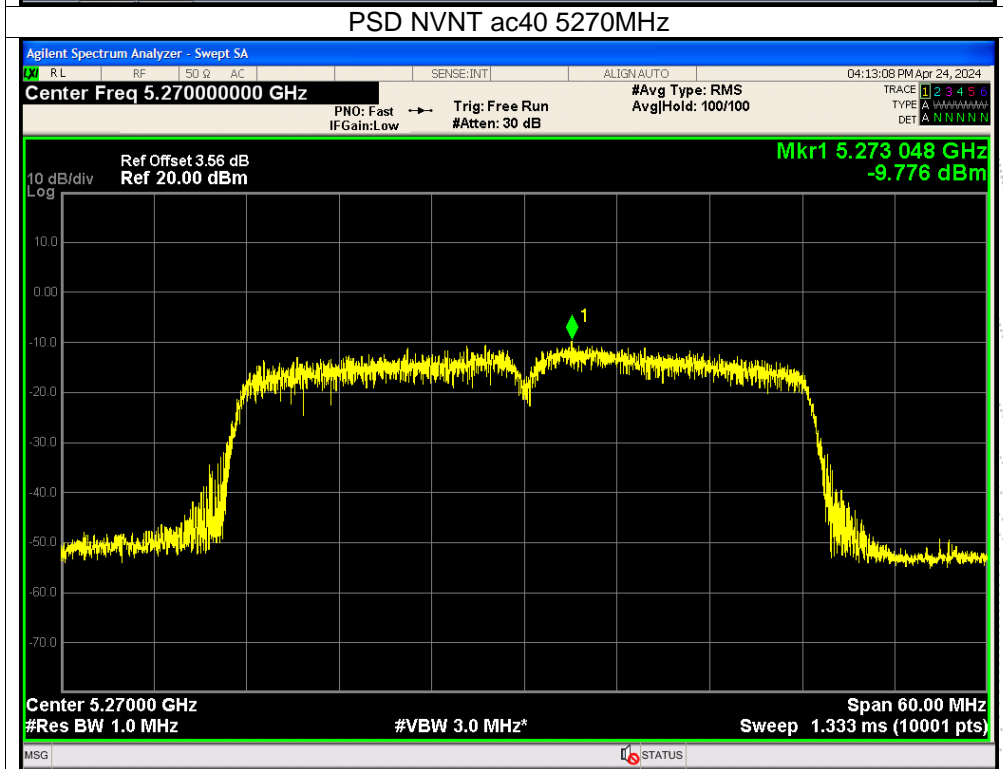
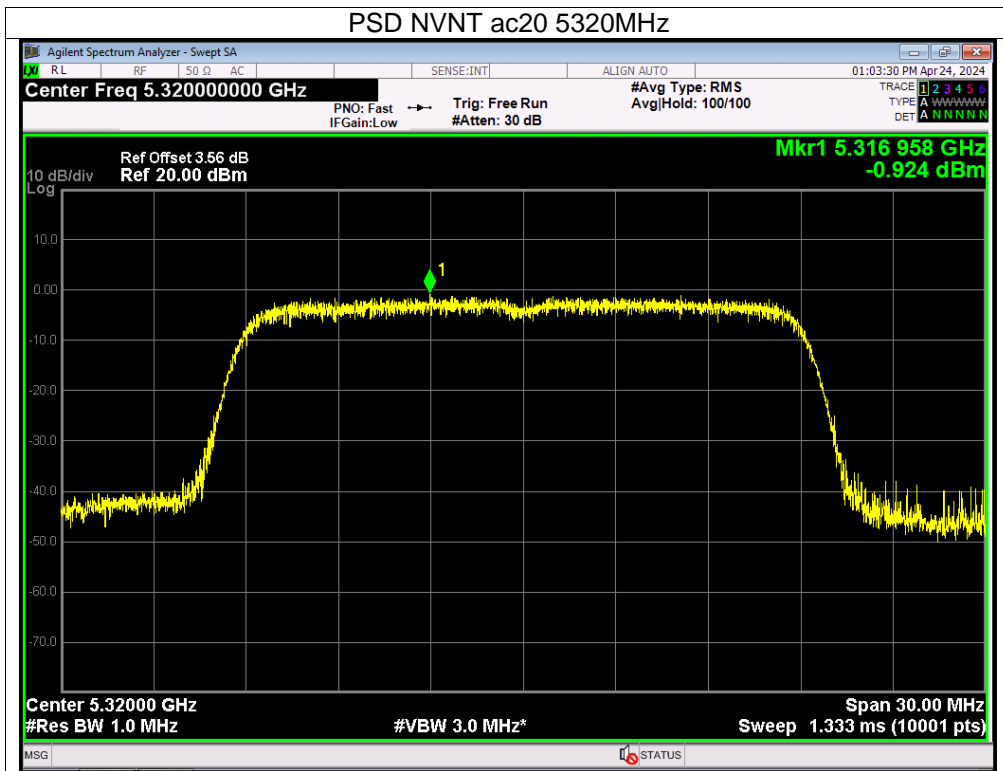


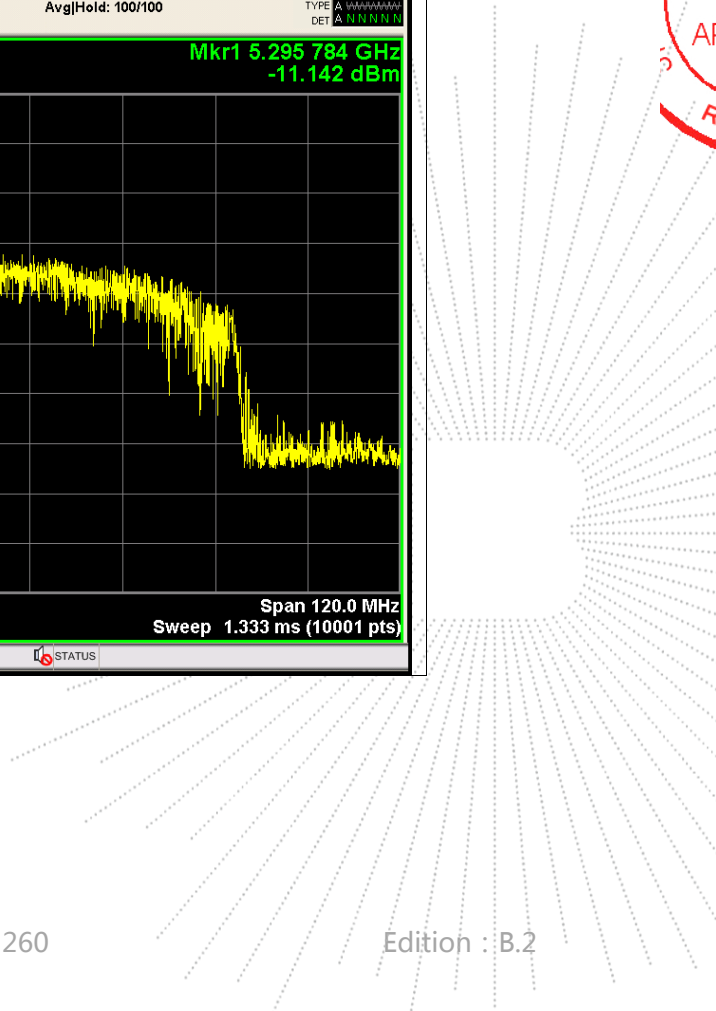
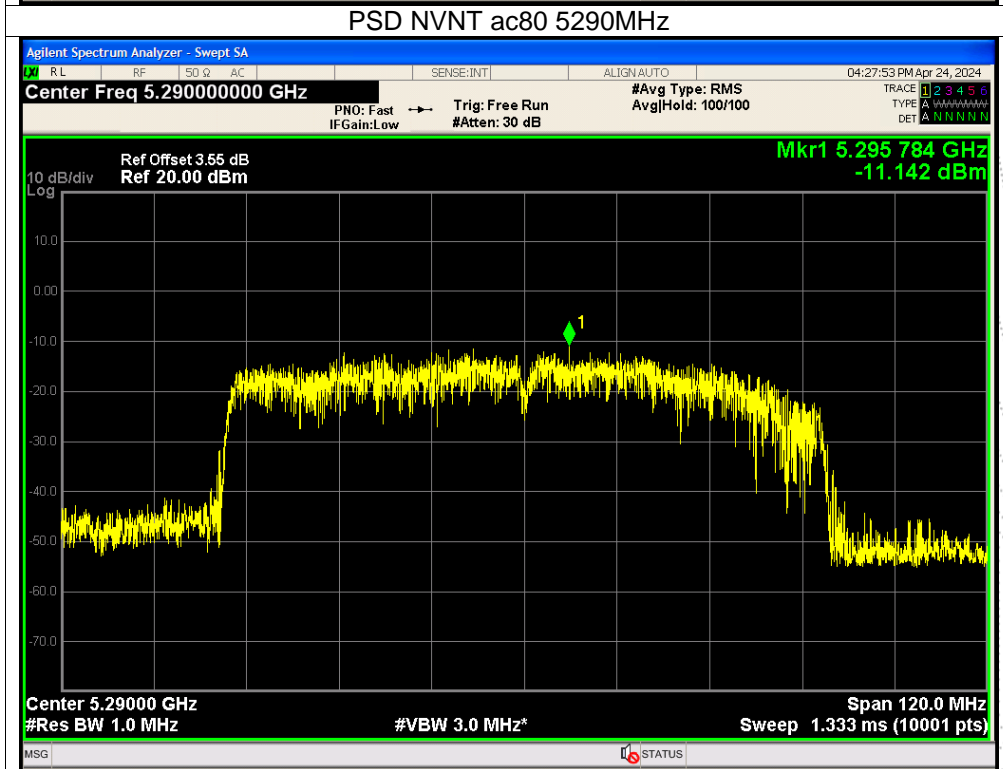
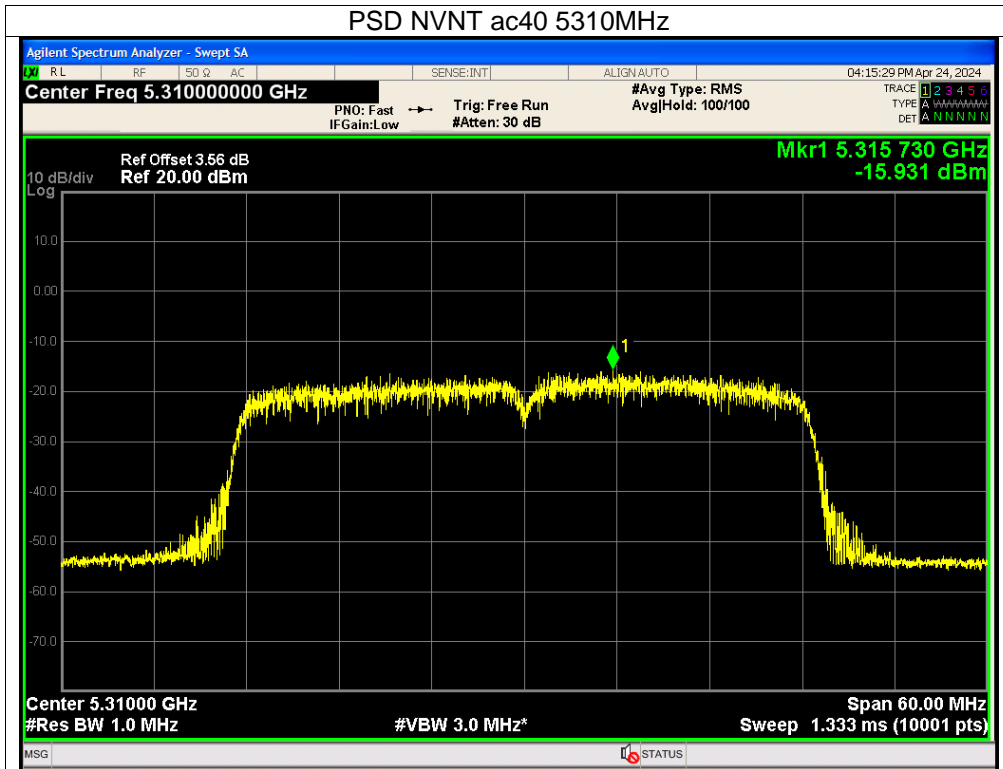






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| | | | |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode: | (5500-5700MHz) | | |

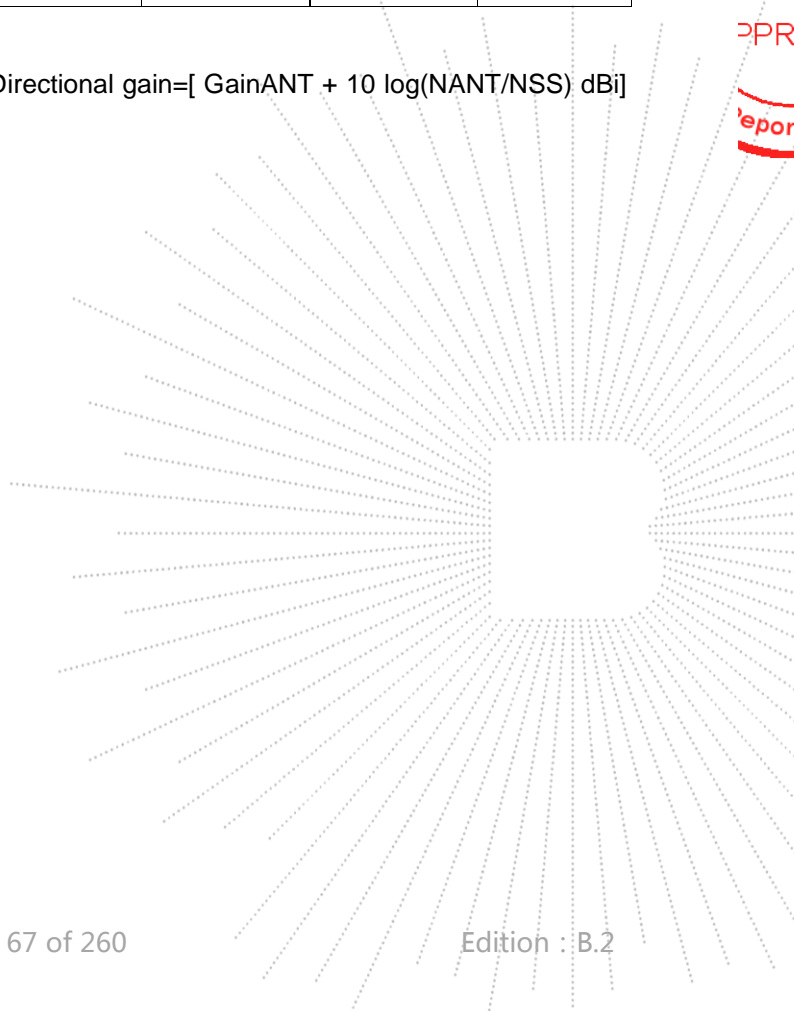
| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/MHz) | | Total (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|-------------------------|--------|-----------------|-----------------|---------|
| | | | Ant A | Ant B | | | |
| NVNT | a | 5500 | -1.46 | -3.91 | / | 11 | Pass |
| NVNT | a | 5580 | -1.21 | -14.67 | / | 11 | Pass |
| NVNT | a | 5700 | -2.08 | -8.12 | / | 11 | Pass |
| NVNT | n20 | 5500 | -3.03 | -6.95 | -1.55 | 9.4 | Pass |
| NVNT | n20 | 5580 | -3.79 | -10.06 | -2.87 | 9.4 | Pass |
| NVNT | n20 | 5700 | -4.29 | -11.45 | -3.53 | 9.4 | Pass |
| NVNT | n40 | 5510 | -4.13 | -15.51 | -3.82 | 9.4 | Pass |
| NVNT | n40 | 5550 | -4.66 | -17.9 | -4.46 | 9.4 | Pass |
| NVNT | n40 | 5670 | -7.24 | -20.31 | -7.03 | 9.4 | Pass |
| NVNT | ac20 | 5500 | -2.63 | -8.88 | -1.71 | 9.4 | Pass |
| NVNT | ac20 | 5580 | -2.5 | -11.65 | -2.00 | 9.4 | Pass |
| NVNT | ac20 | 5700 | -4.33 | -13.19 | -3.80 | 9.4 | Pass |
| NVNT | ac40 | 5510 | -4.6 | -15.7 | -4.28 | 9.4 | Pass |
| NVNT | ac40 | 5550 | -5.12 | -16.47 | -4.81 | 9.4 | Pass |
| NVNT | ac40 | 5670 | -5.89 | -18.96 | -5.68 | 9.4 | Pass |
| NVNT | ac80 | 5530 | -6.85 | -21.74 | -6.71 | 9.4 | Pass |

Note:

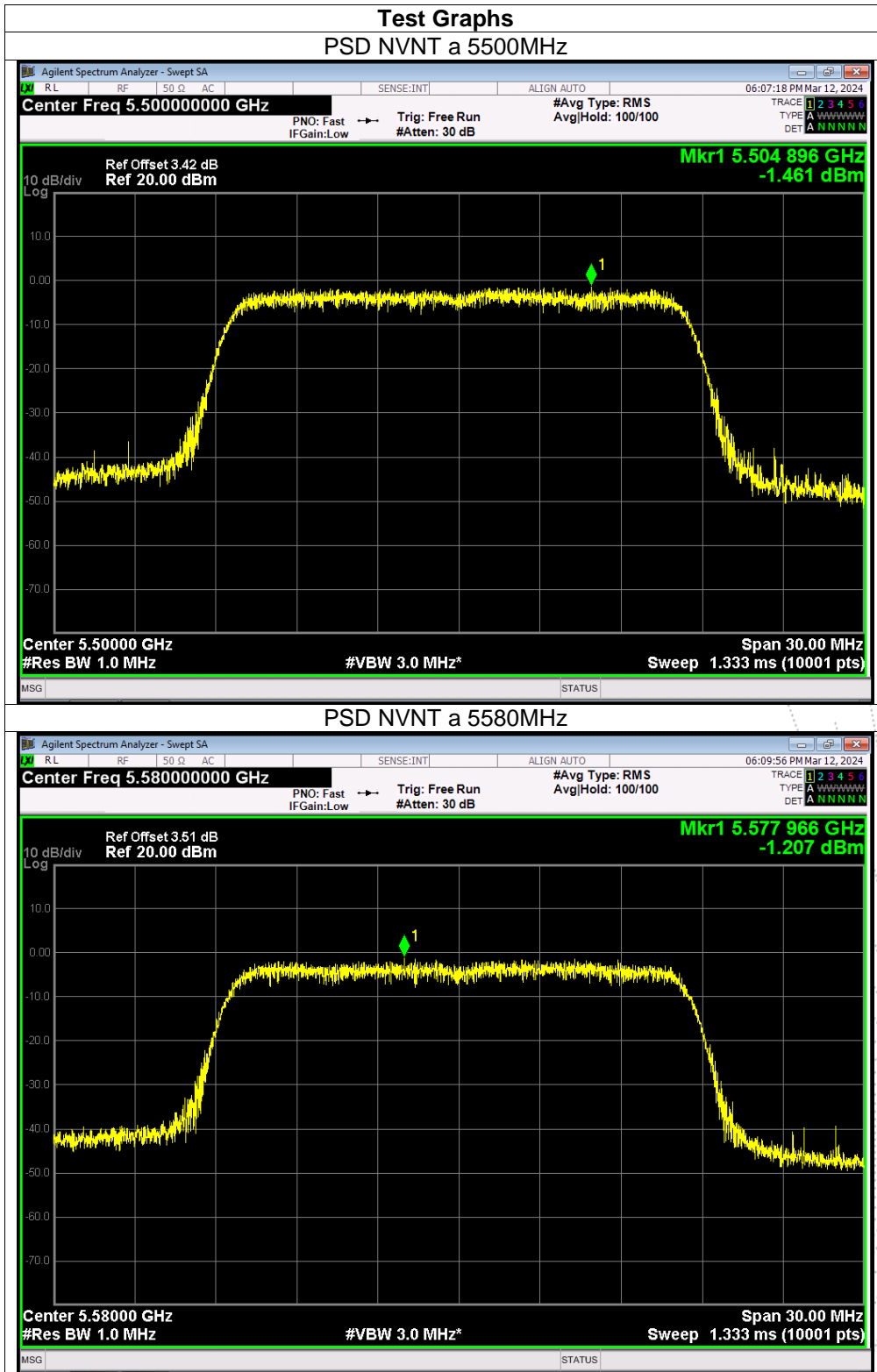
Antenna A gain: 4.59 dBi, Antenna B gain: 2.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
 =7.6 dBi>6dBi

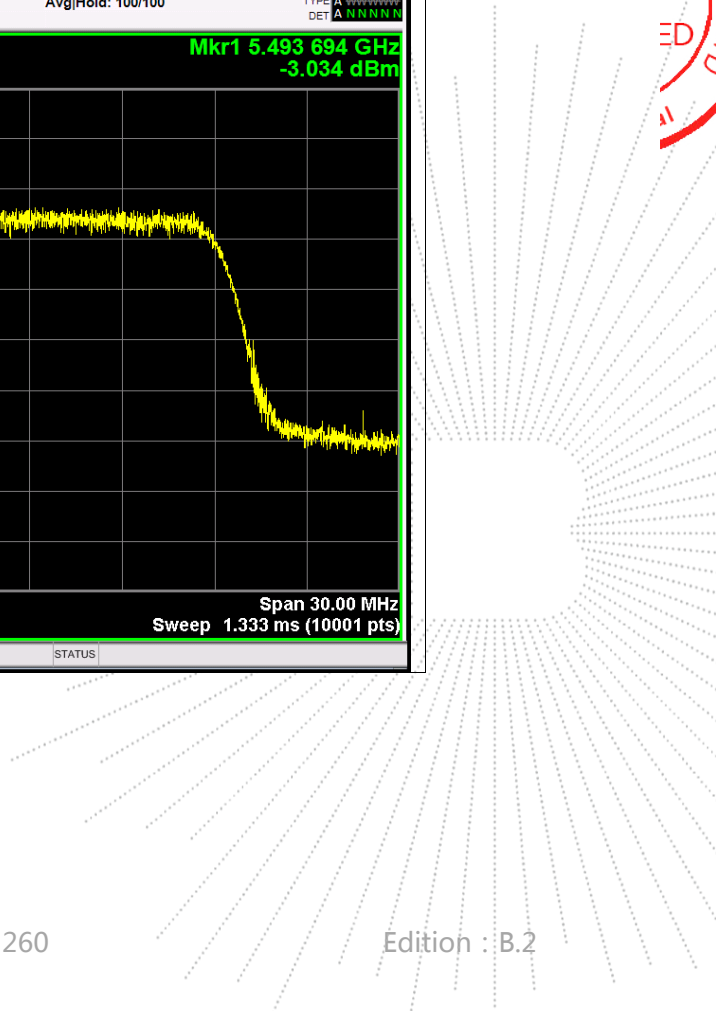
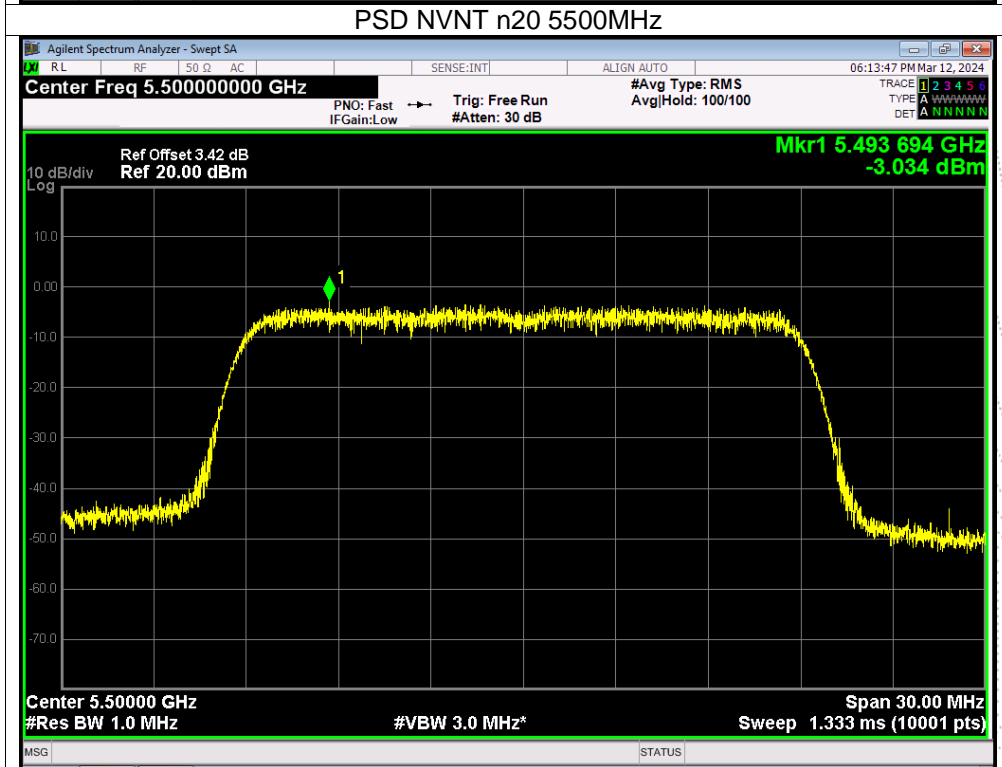
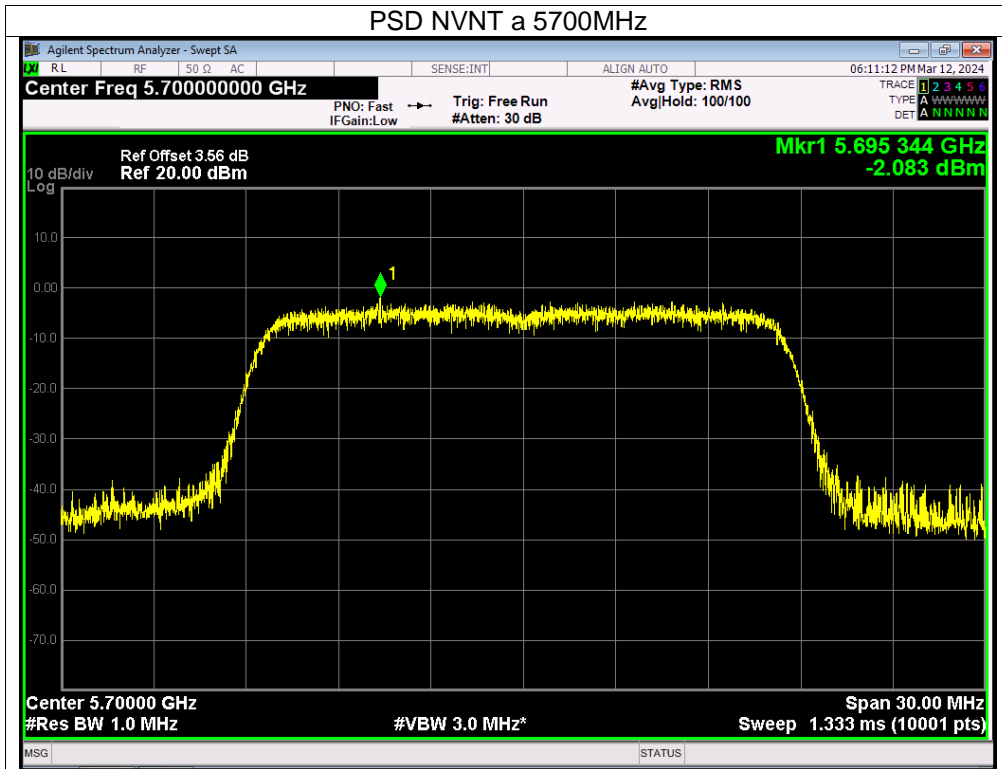
Limit=11-(7.6-6)=9.4 dBi

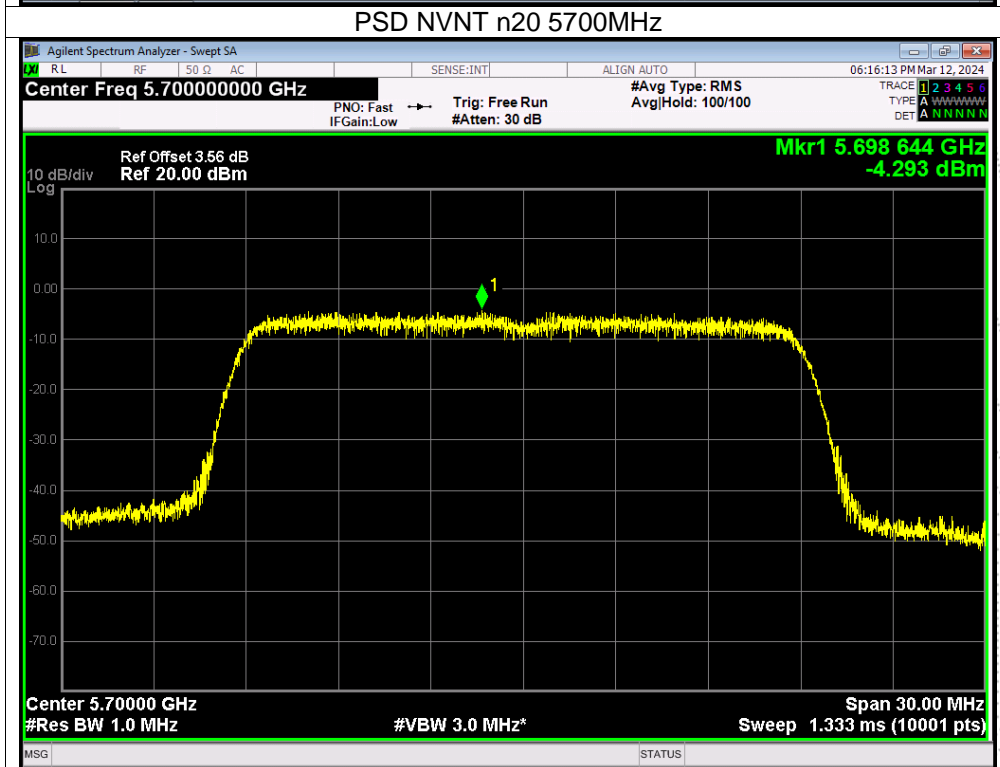
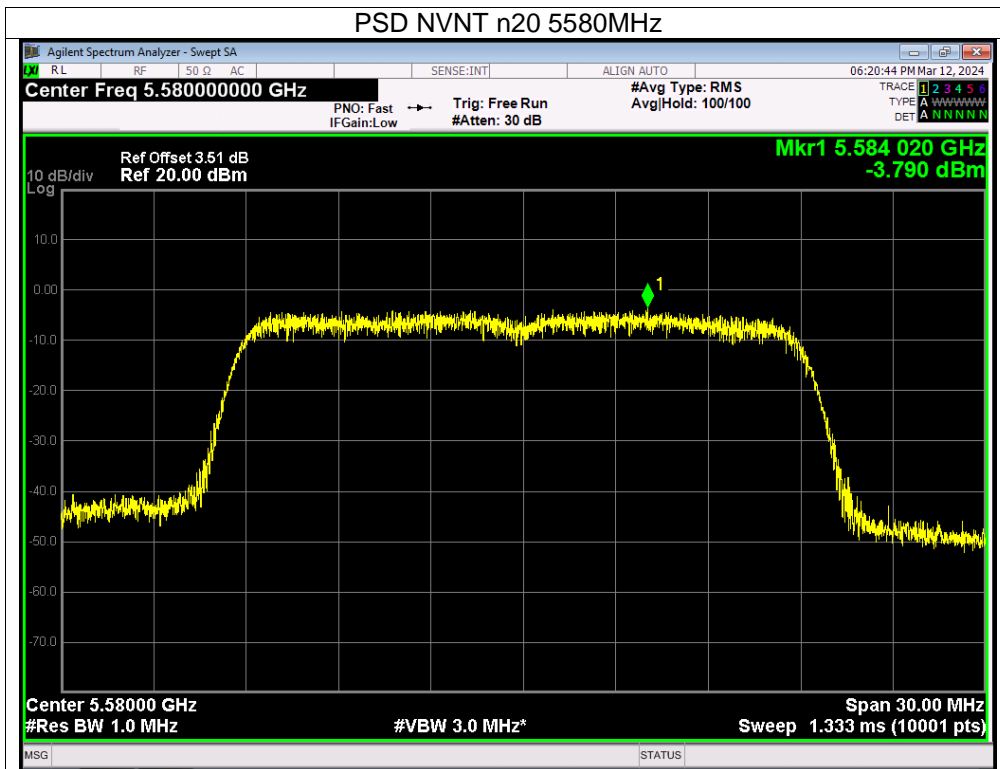
BCTC
 BCTC
 PPR
 Report



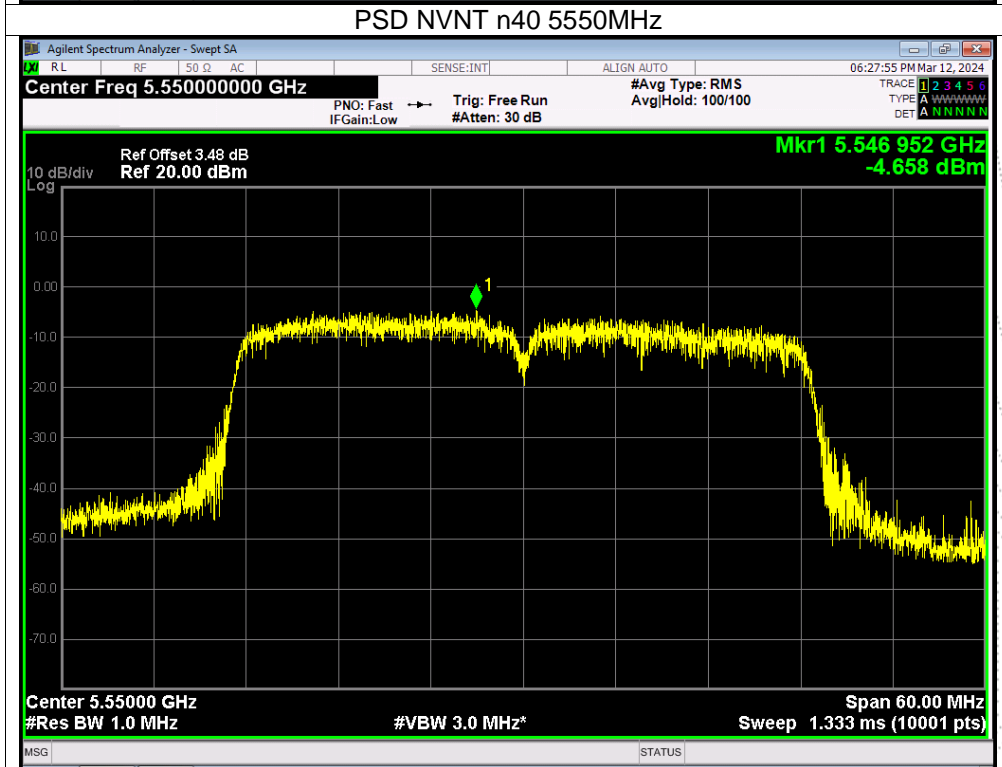
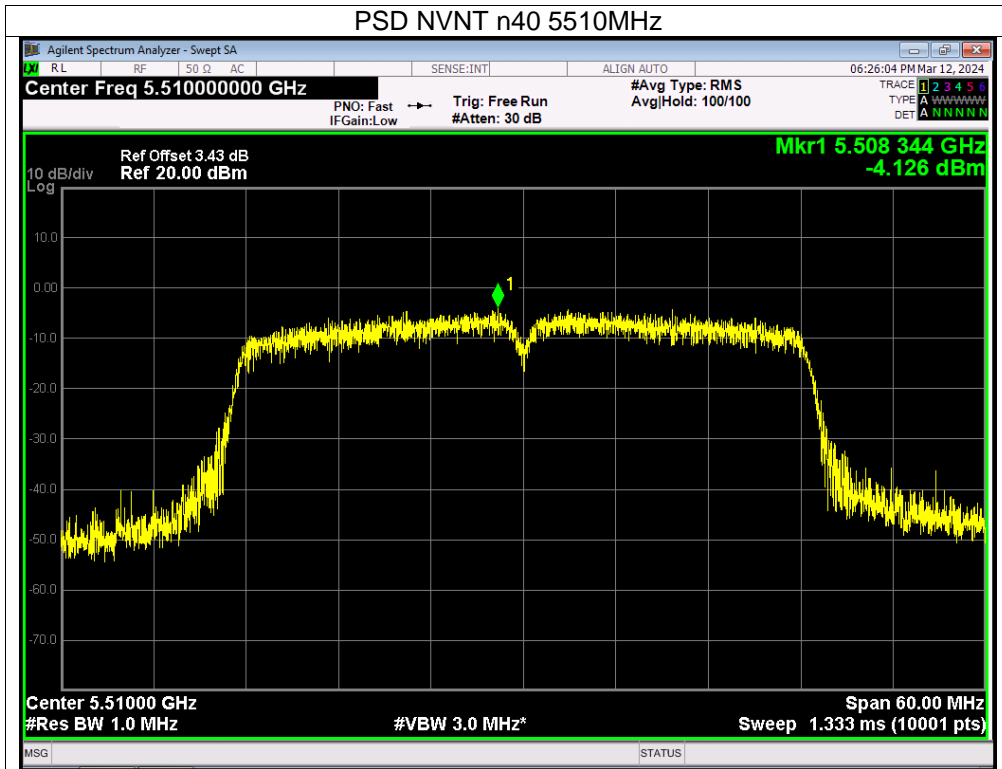
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.



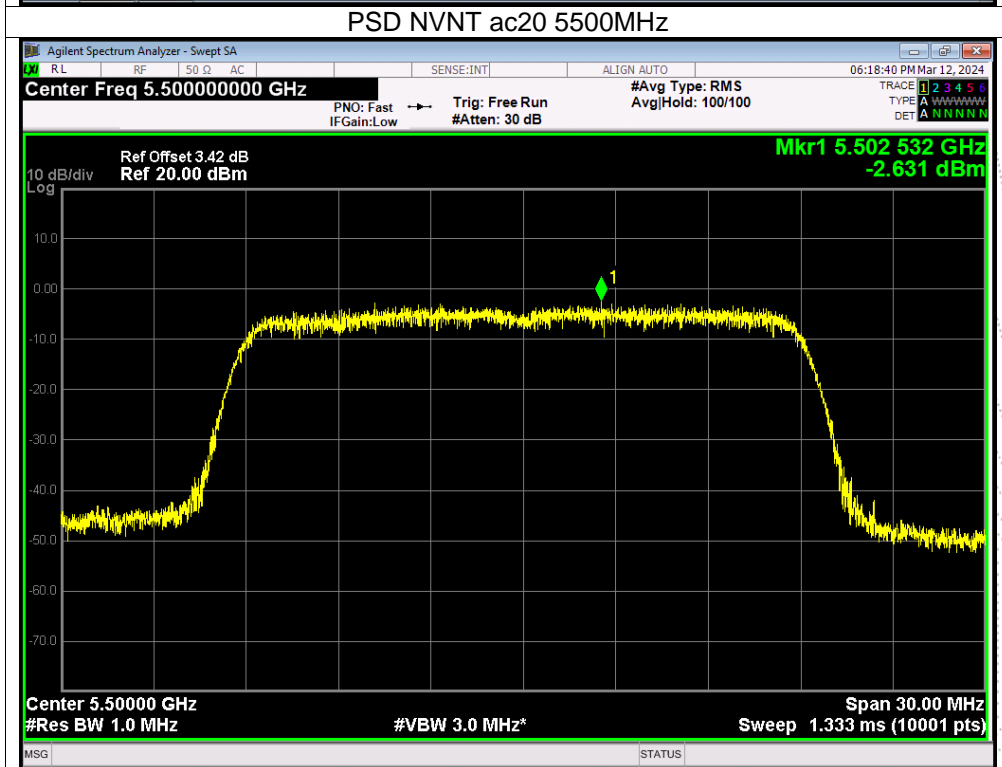
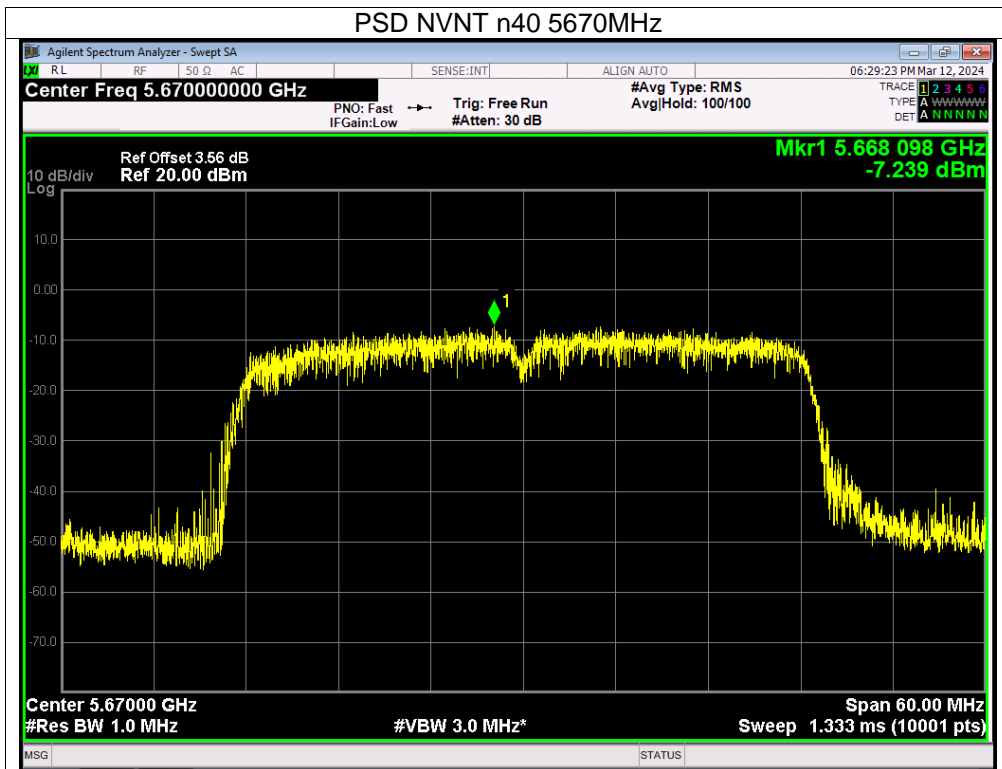


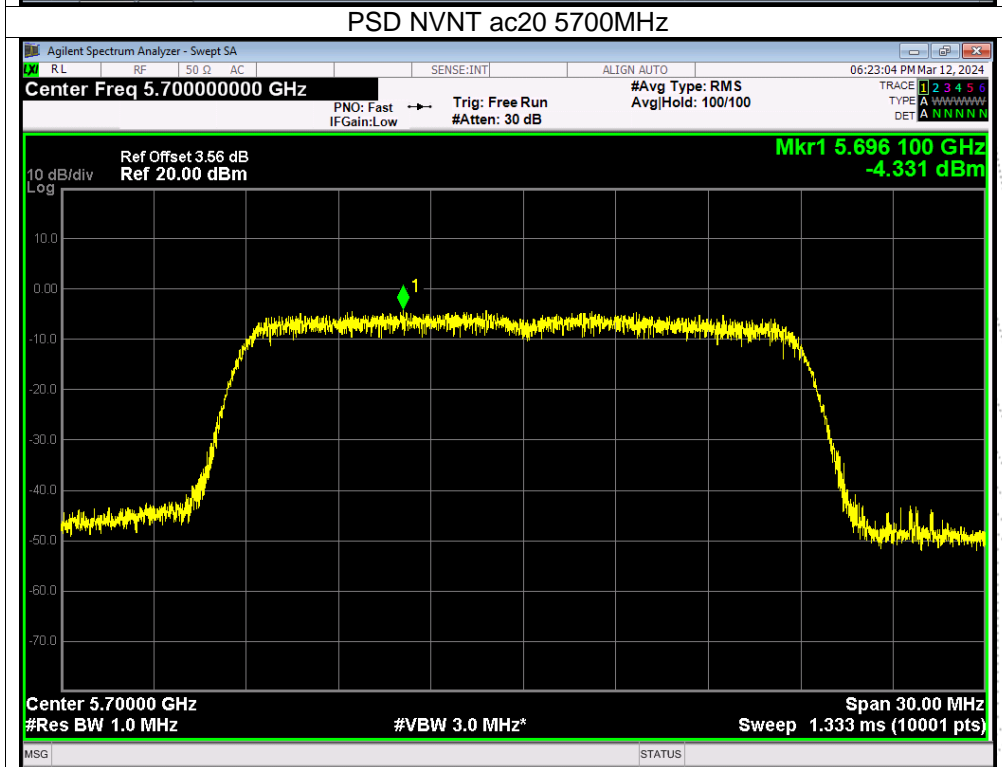
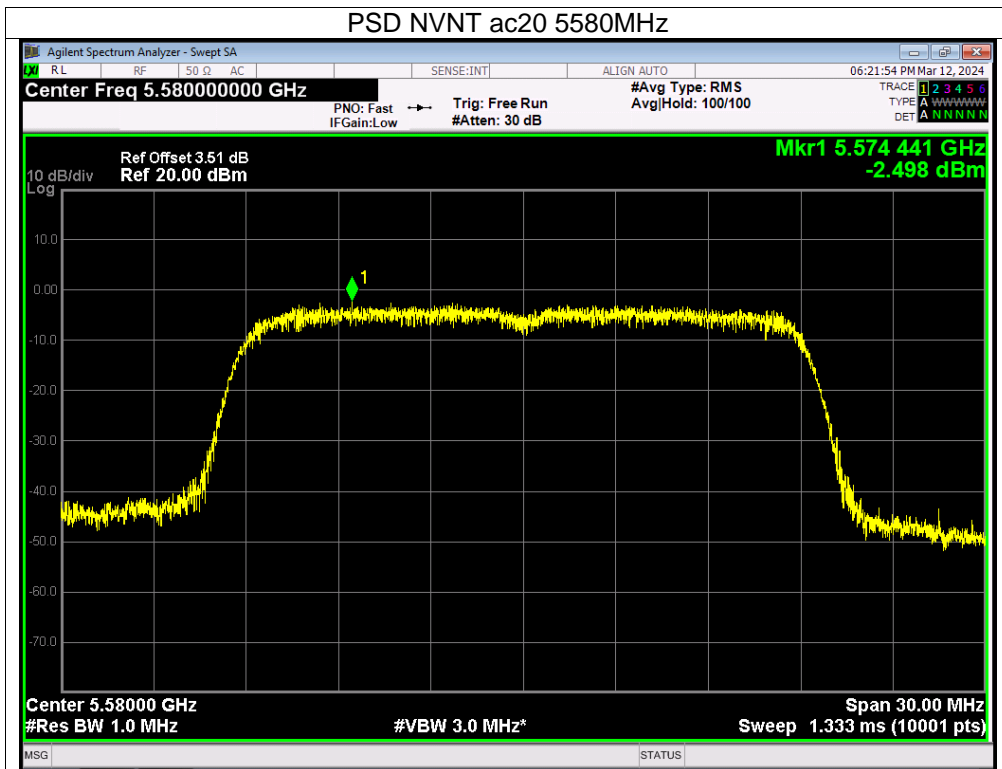


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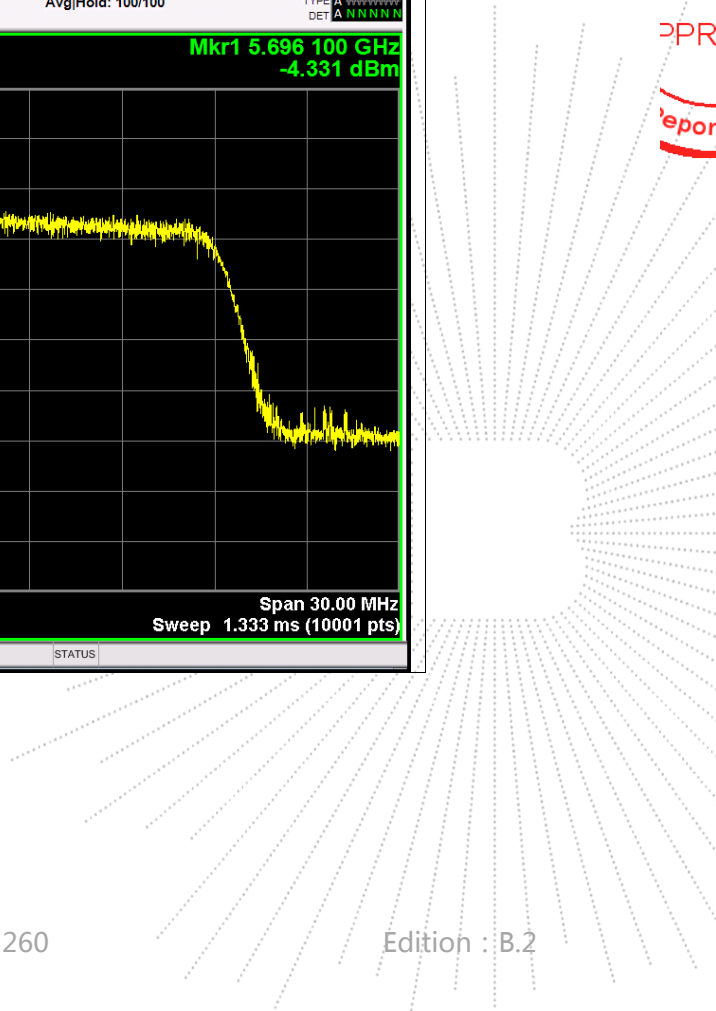


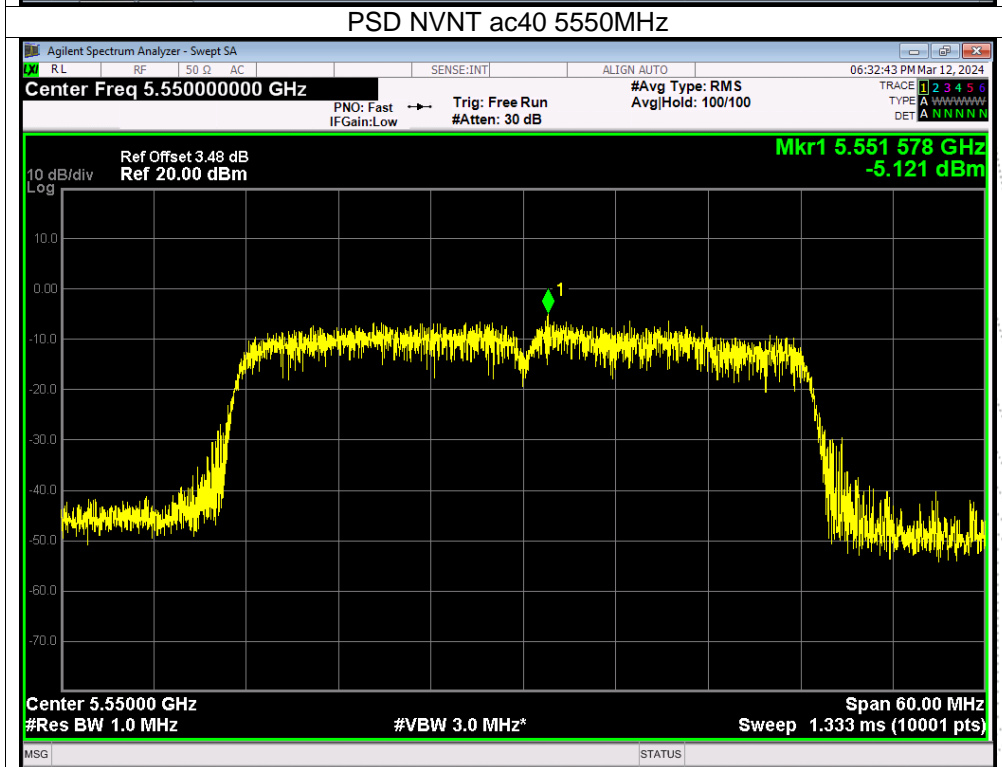
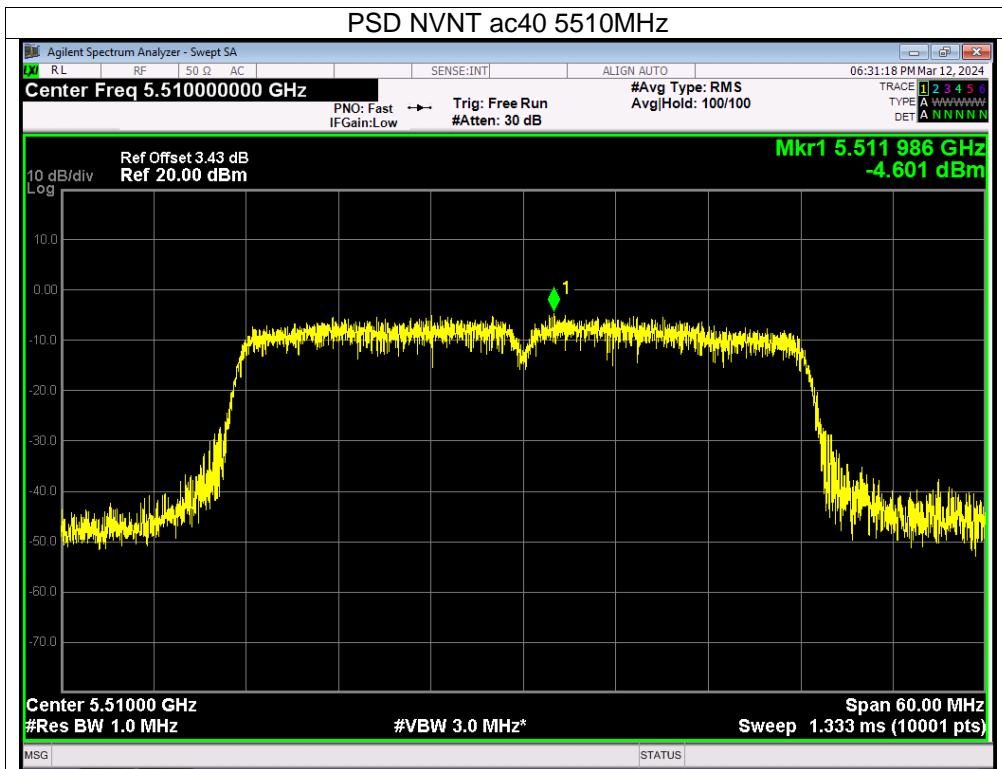
CHENZHEN

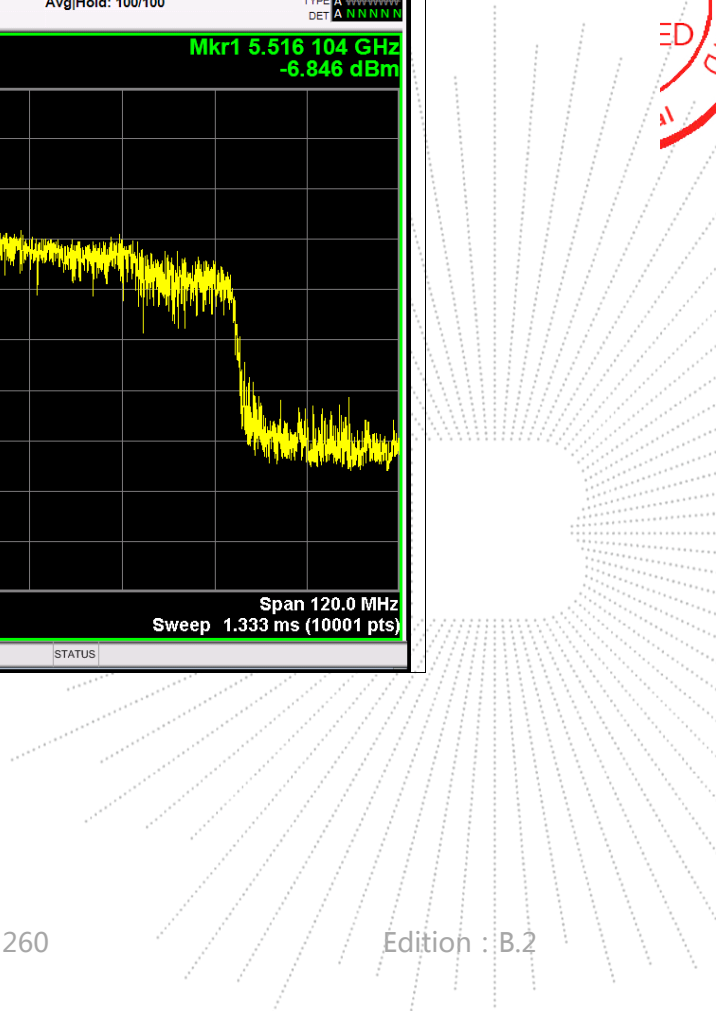
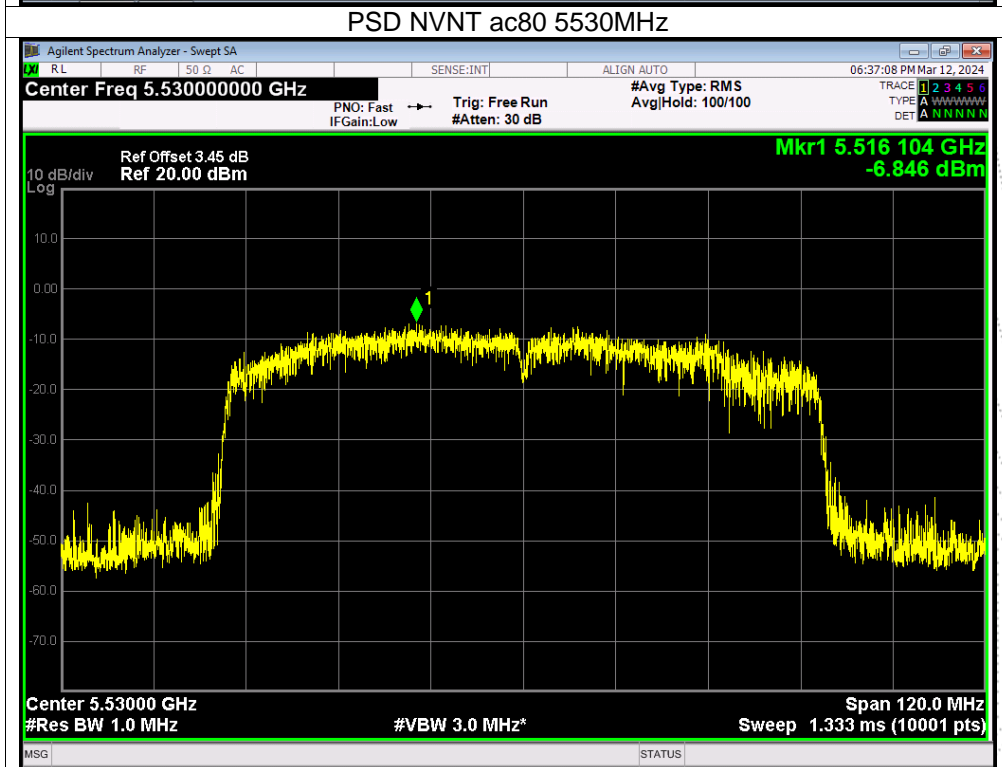
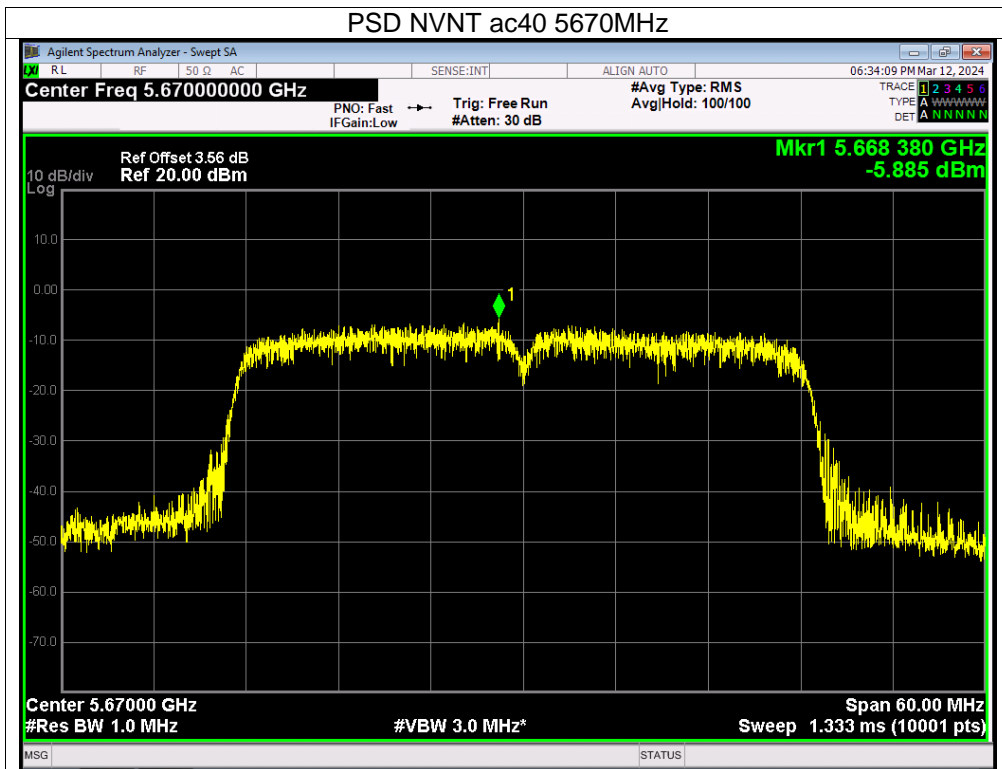




BCTC
 BCTC
 PPR
 Report







| | | | |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode: | (5745-5825MHz) | | |

| Condition | Mode | Fre- quency (MHz) | Conducted PSD (dBm/510KHz) | | Conducted PSD (dBm/500KHz) | | Total (dBm/ 500KHz) | Limit (dBm/ 500KHz) | Verdict |
|-----------|------|-------------------------|-------------------------------|-------------|-------------------------------|---------|---------------------------|---------------------------|---------|
| | | | Ant A | Ant B | Ant A | Ant B | | | |
| NVNT | a | 5745 | -5.08 | -3.49 | -5.166 | -3.576 | / | 30 | Pass |
| NVNT | a | 5785 | -5.06 | -2.6 | -5.146 | -2.686 | / | 30 | Pass |
| NVNT | a | 5825 | -5.05 | -3.53 | -5.136 | -3.616 | / | 30 | Pass |
| NVNT | n20 | 5745 | -7.14 | -5.55 | -7.226 | -5.636 | -3.35 | 28.4 | Pass |
| NVNT | n20 | 5785 | -6.37 | -5.7 | -6.456 | -5.786 | -3.10 | 28.4 | Pass |
| NVNT | n20 | 5825 | -6.19 | -4.87 | -6.276 | -4.956 | -2.56 | 28.4 | Pass |
| NVNT | n40 | 5755 | -12.5 | -11.31 | -12.586 | -11.396 | -8.94 | 28.4 | Pass |
| NVNT | n40 | 5795 | -13.34 | -10.52 | -13.426 | -10.606 | -8.78 | 28.4 | Pass |
| NVNT | ac20 | 5745 | -7.96 | -5.04 | -8.046 | -5.126 | -3.33 | 28.4 | Pass |
| NVNT | ac20 | 5785 | -7.9 | -5.43 | -7.986 | -5.516 | -3.57 | 28.4 | Pass |
| NVNT | ac20 | 5825 | -8.23 | -5.71 | -8.316 | -5.796 | -3.87 | 28.4 | Pass |
| NVNT | ac40 | 5755 | -12.87 | -12.17 | -12.956 | -12.256 | -9.58 | 28.4 | Pass |
| NVNT | ac40 | 5795 | -13.65 | -11.8 | -13.736 | -11.886 | -9.70 | 28.4 | Pass |
| NVNT | ac80 | 5775 | -15.04 | -19.25 | -15.126 | -19.336 | -13.73 | 28.4 | Pass |

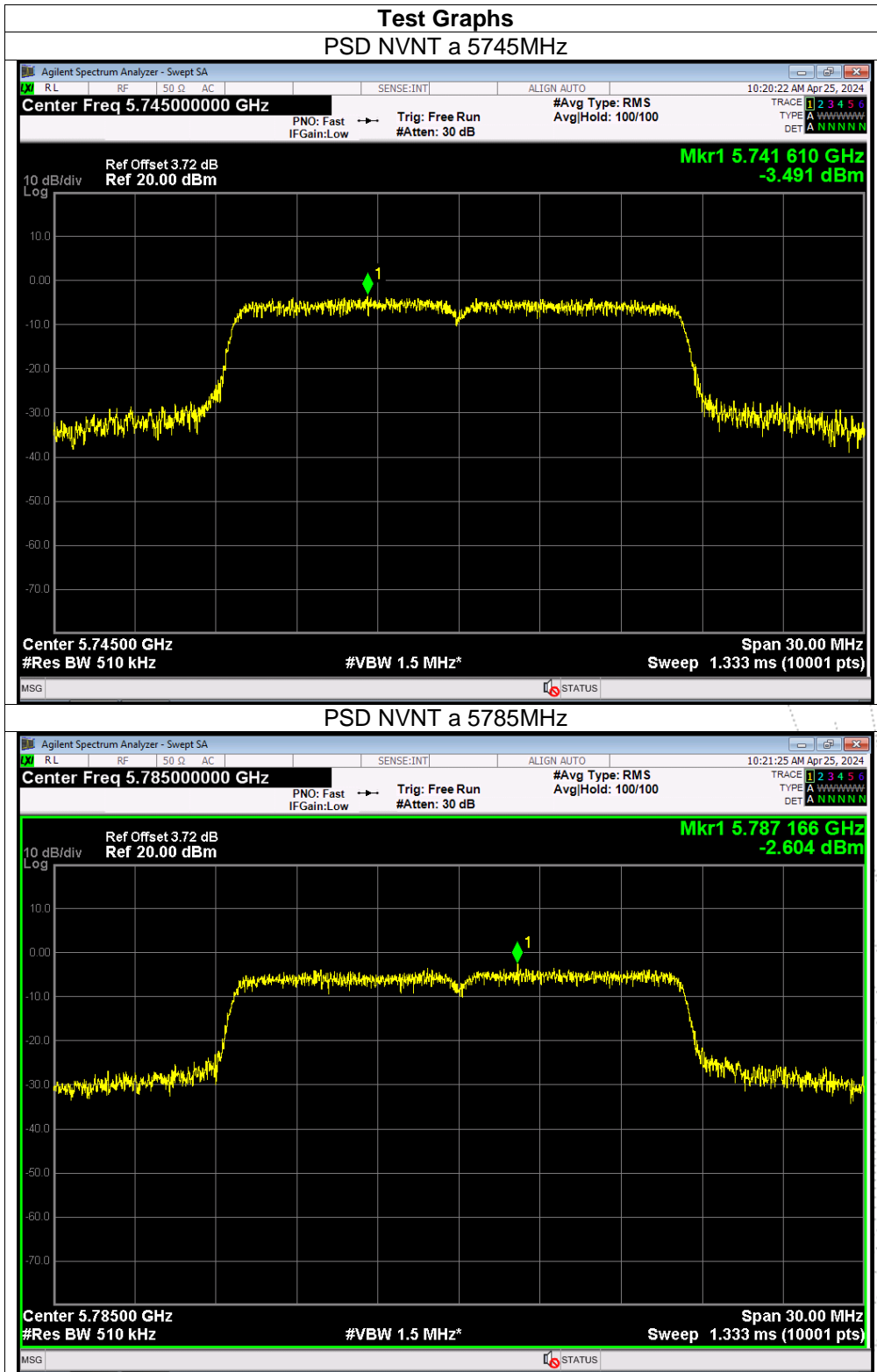
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

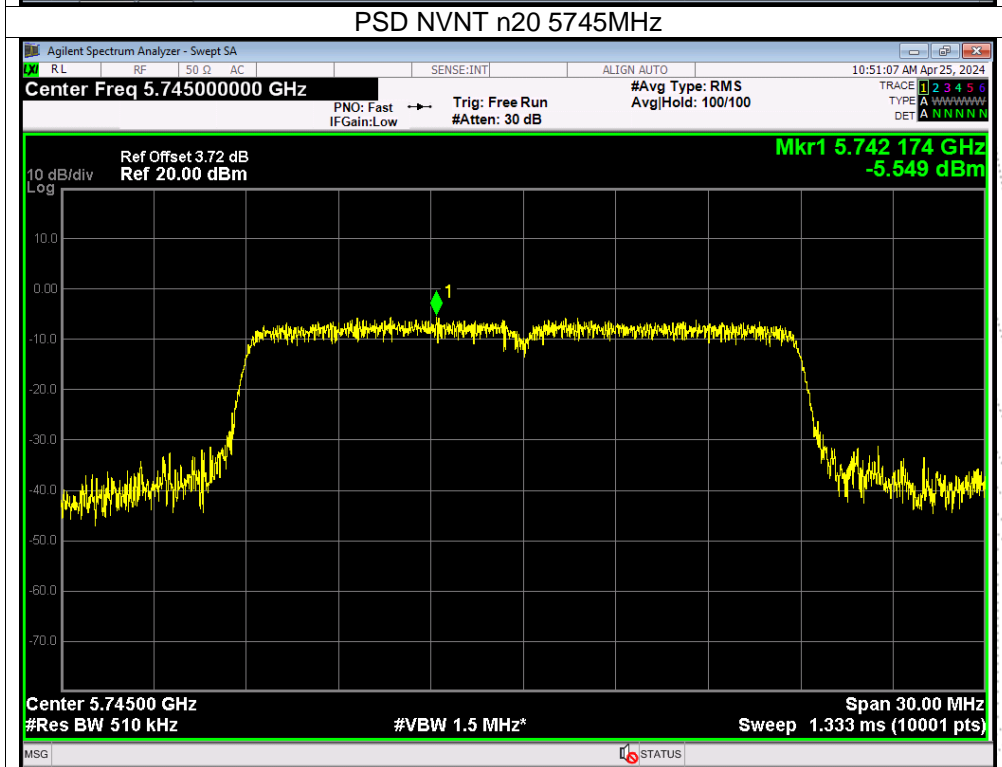
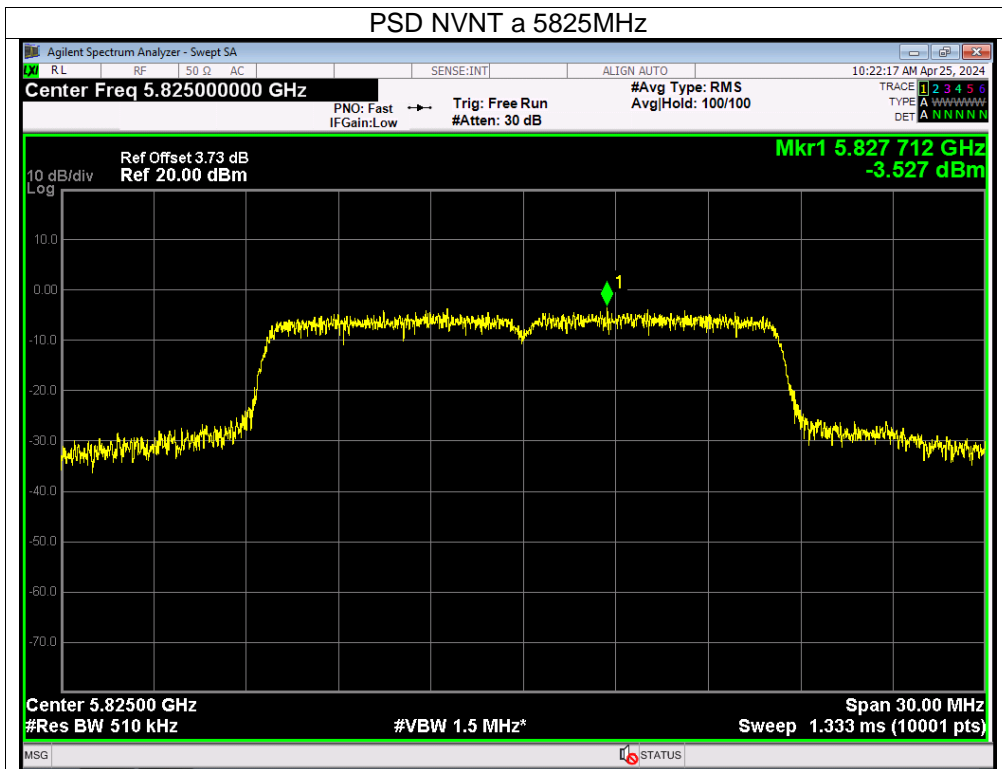
Note:

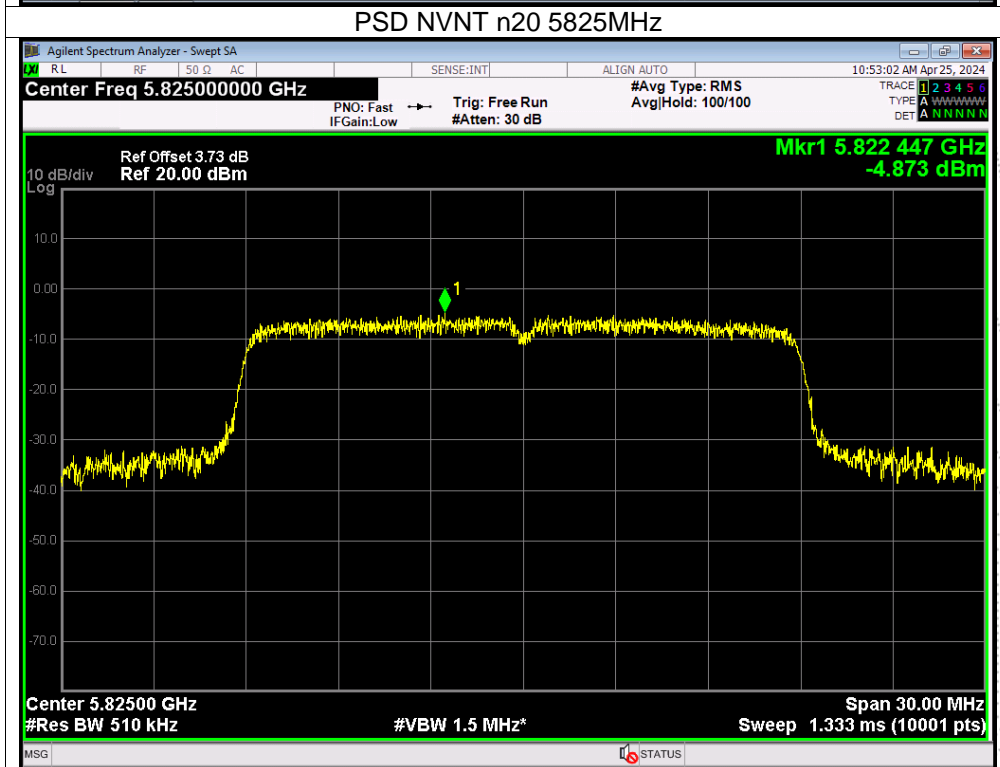
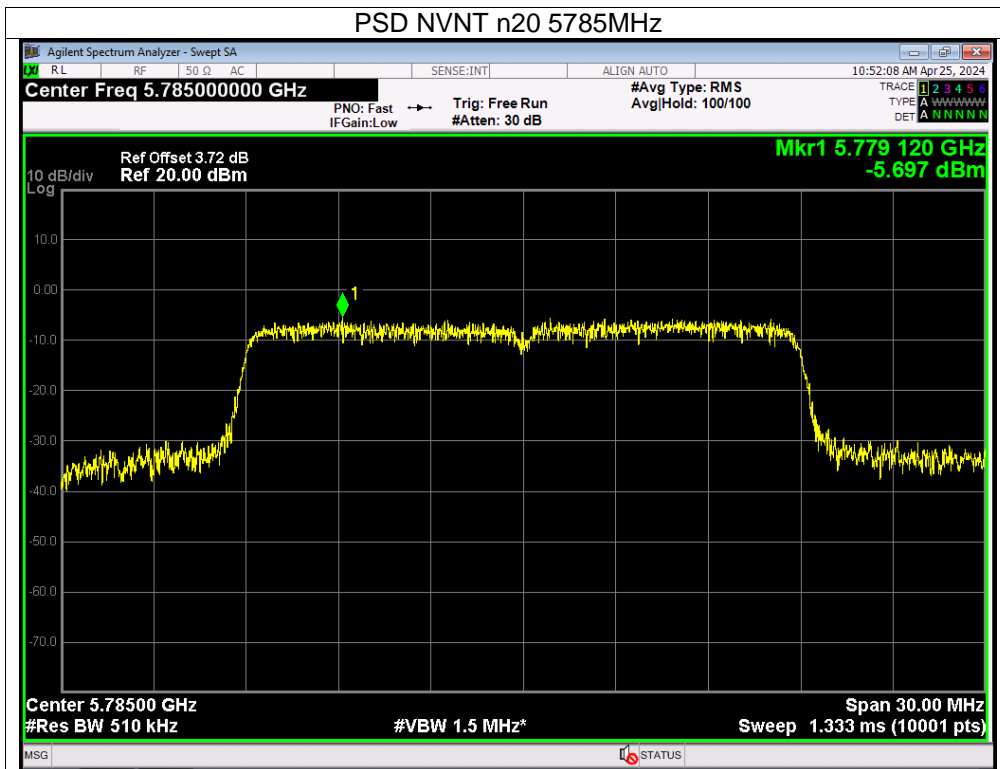
Antenna A gain: 4.59 dBi, Antenna B gain: 2.9 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
 =7.6 dBi>6dBi
 EIRP Limit=30-(7.6-6) =28.4 dBi

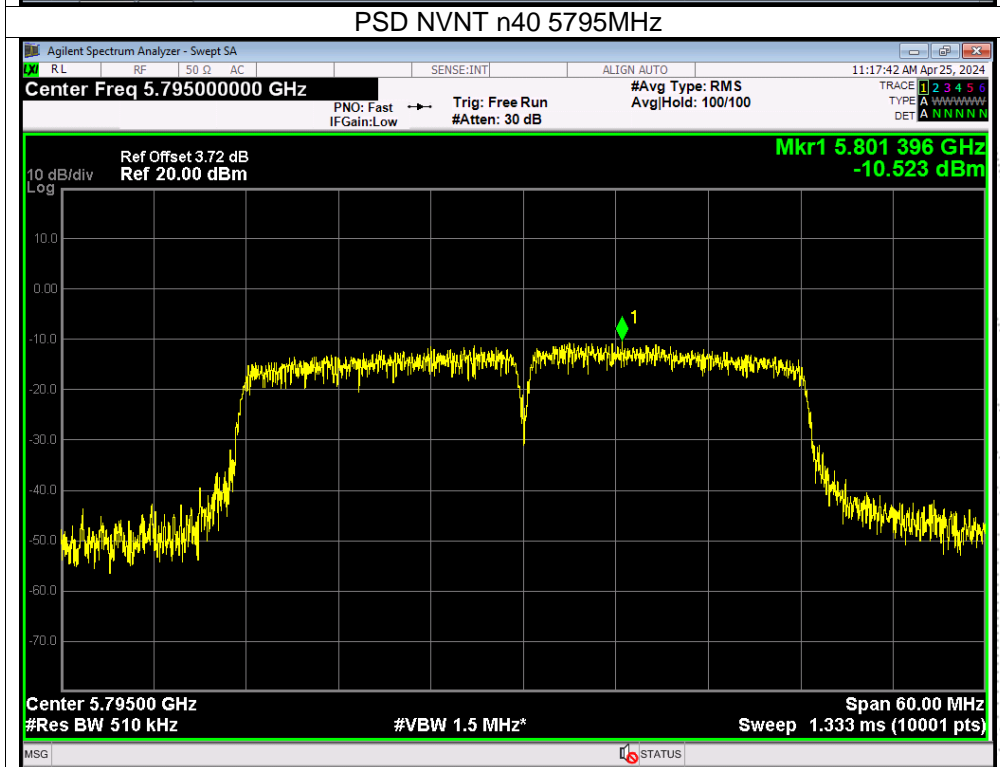
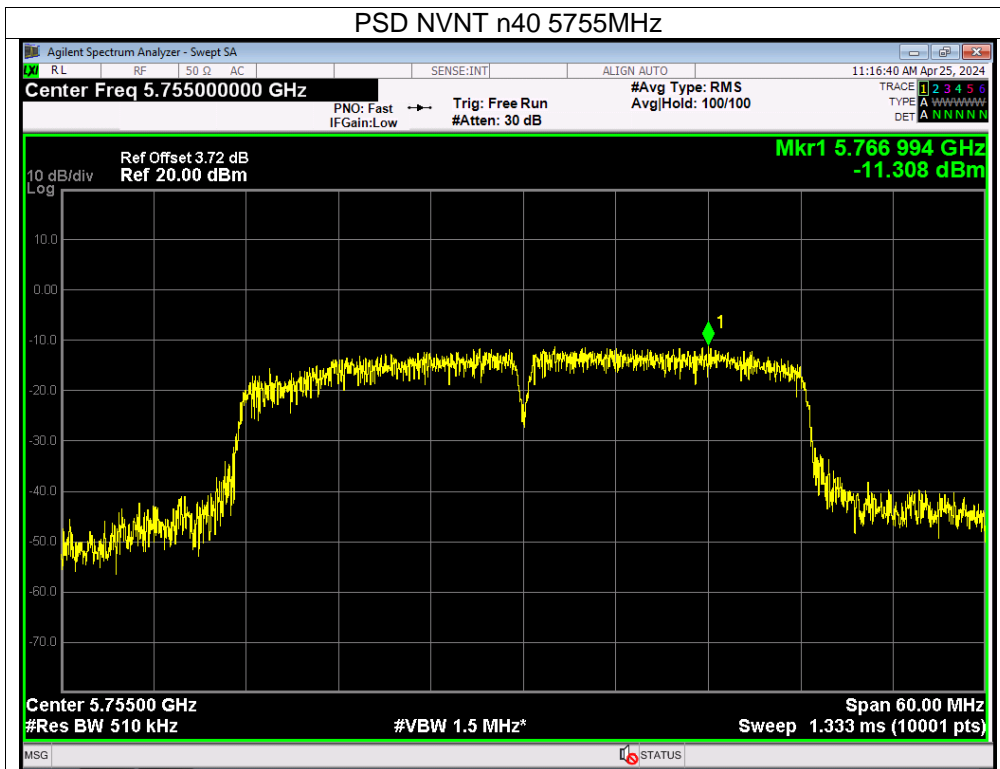


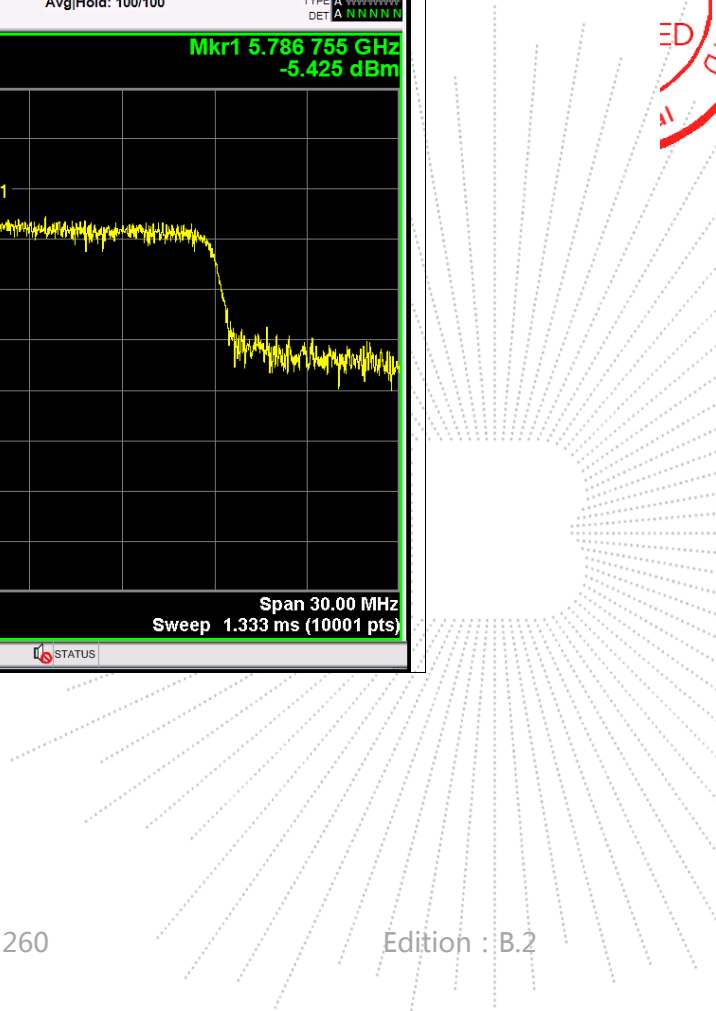
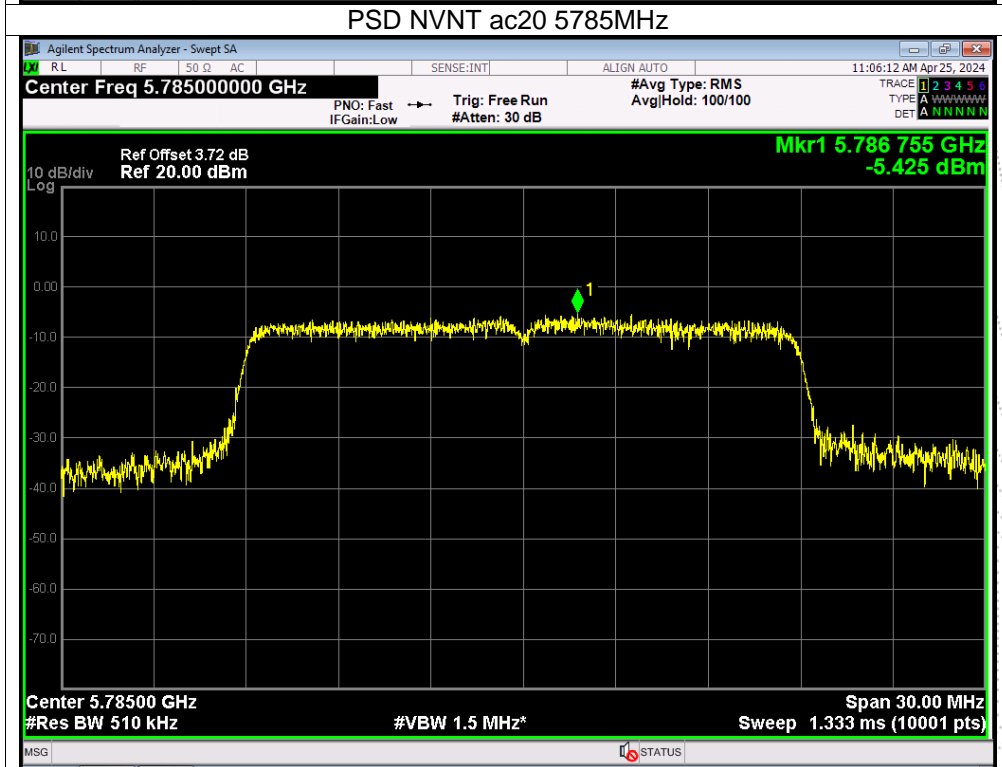
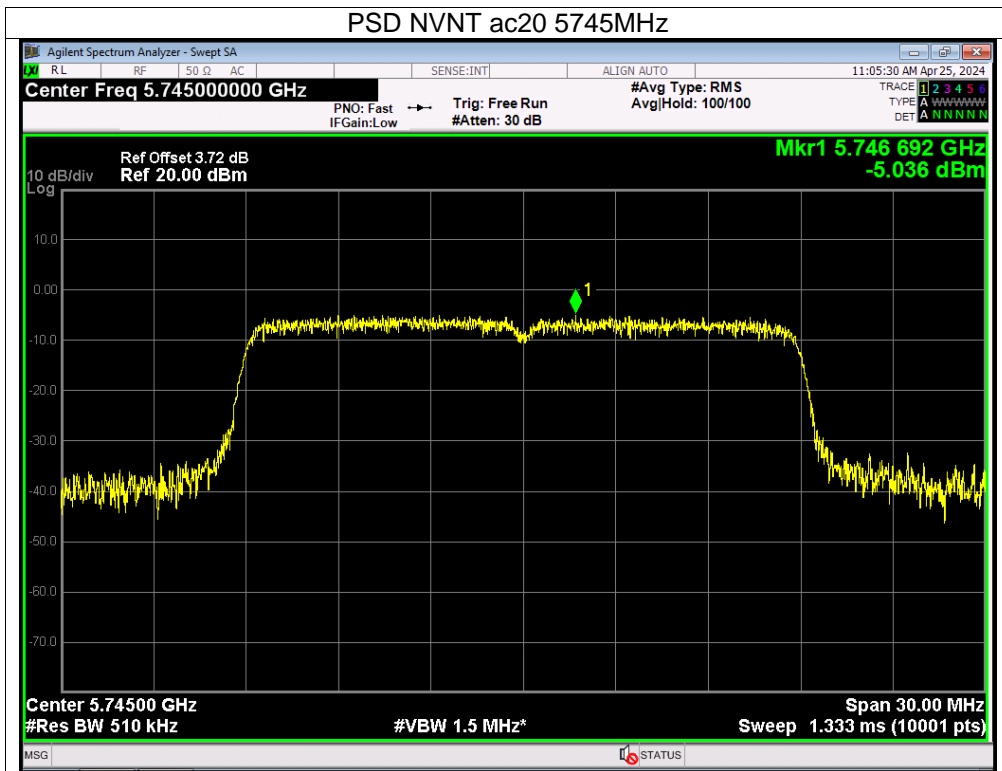
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

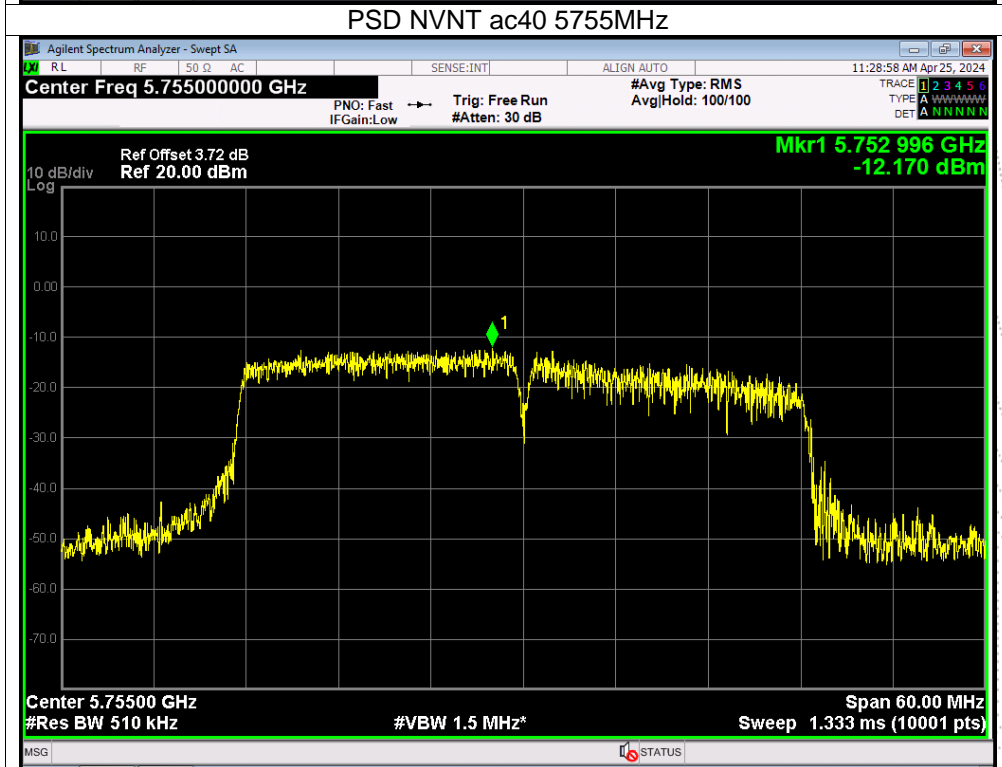
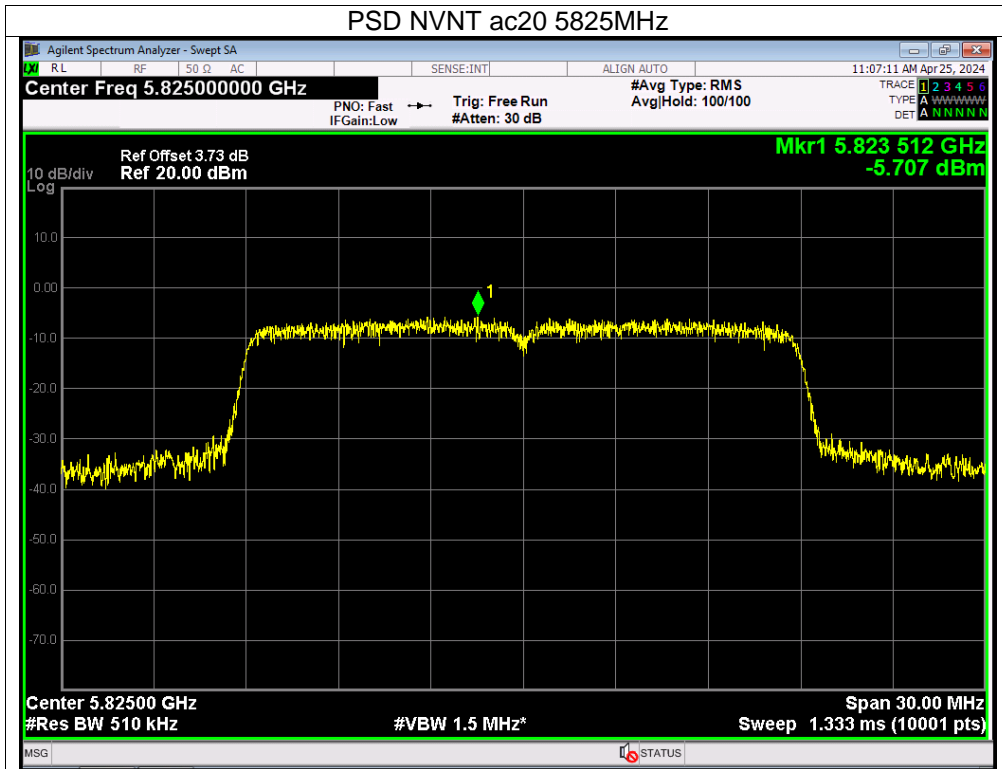


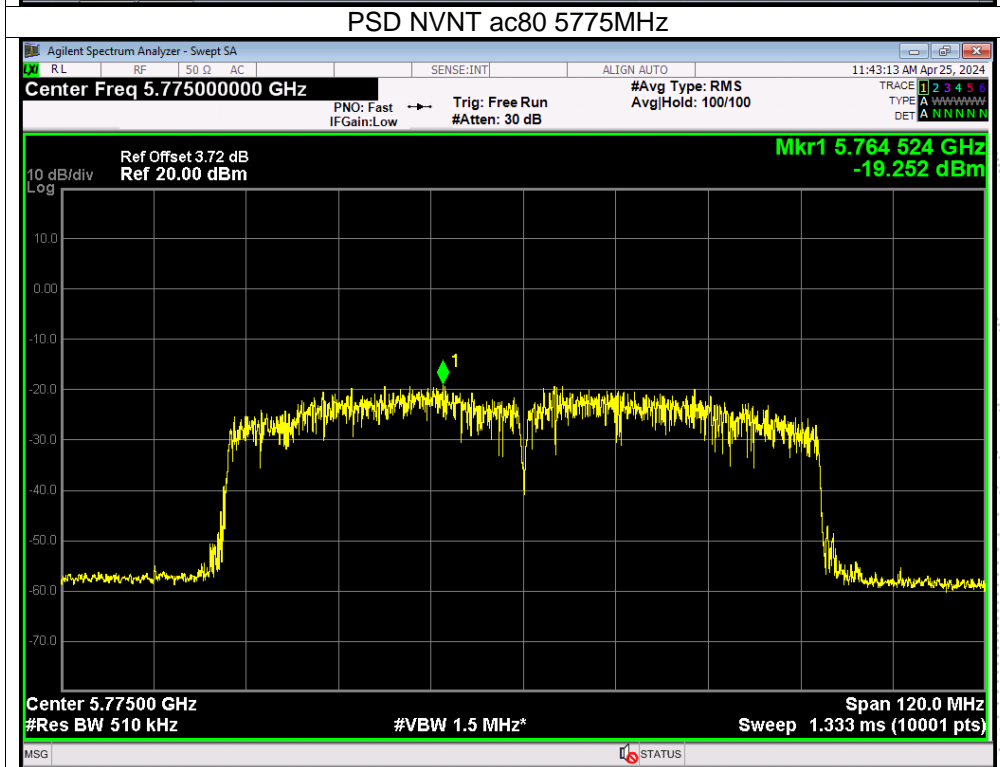
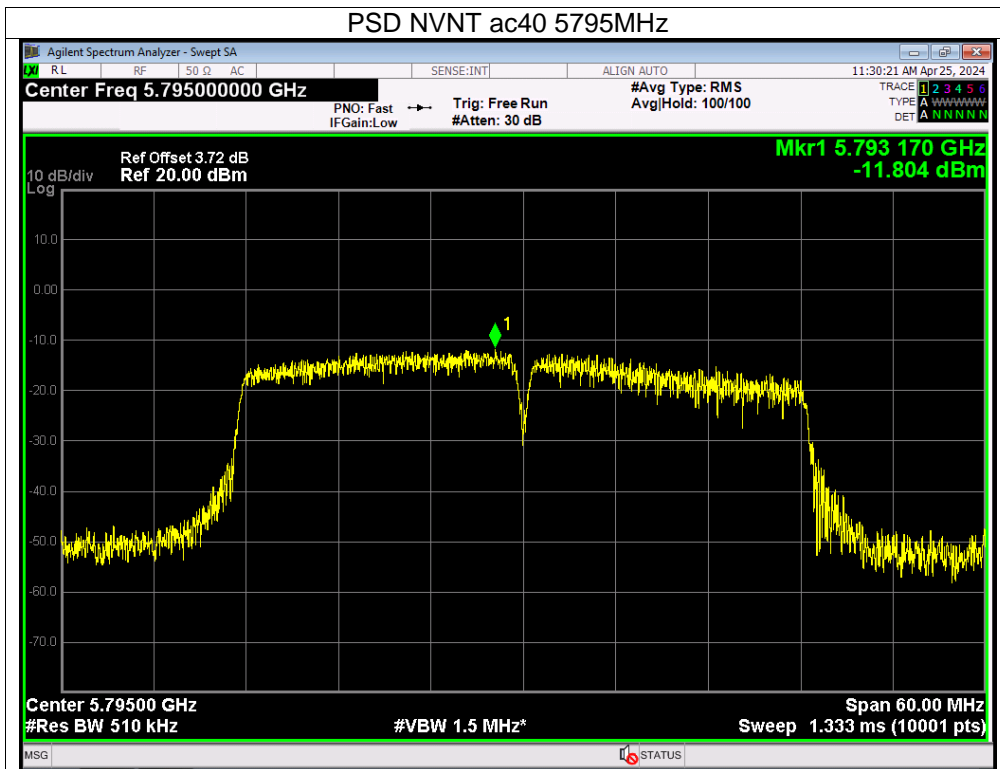








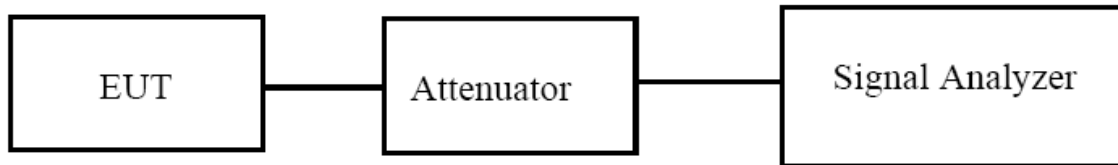




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9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

9.3 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

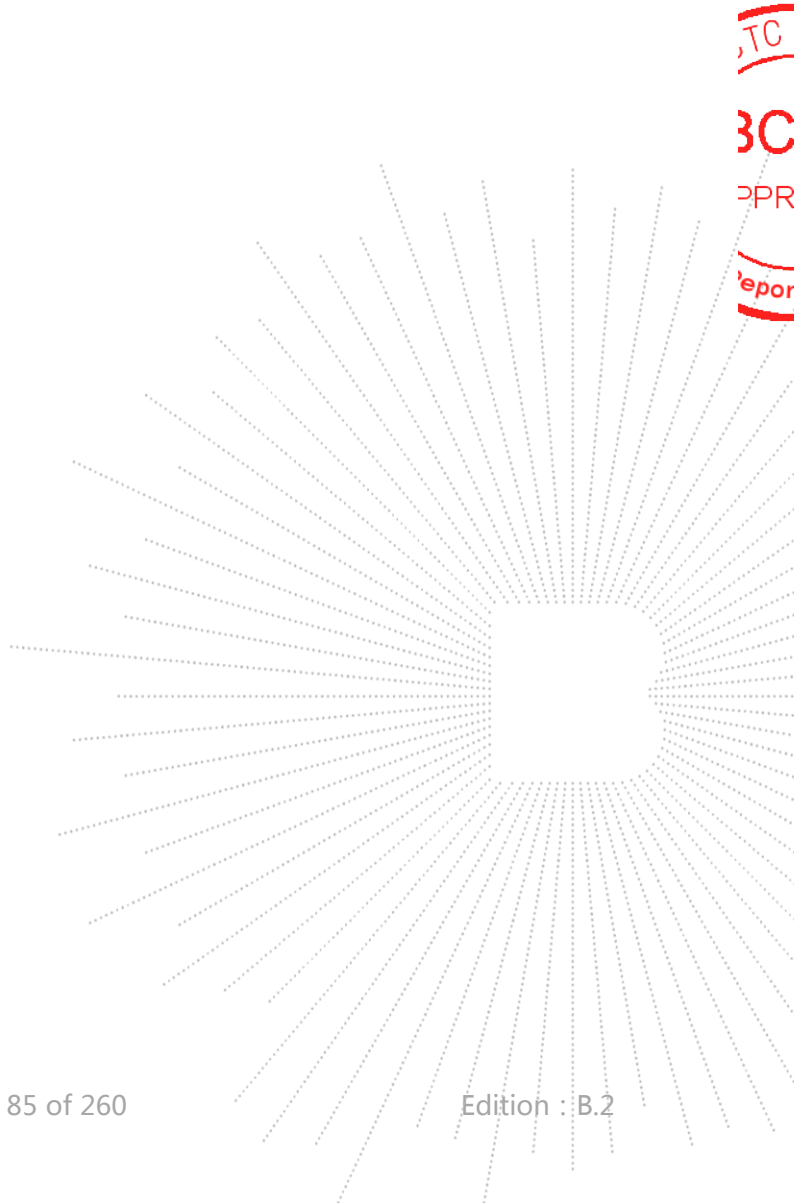
The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

9.4 EUT Operating Conditions

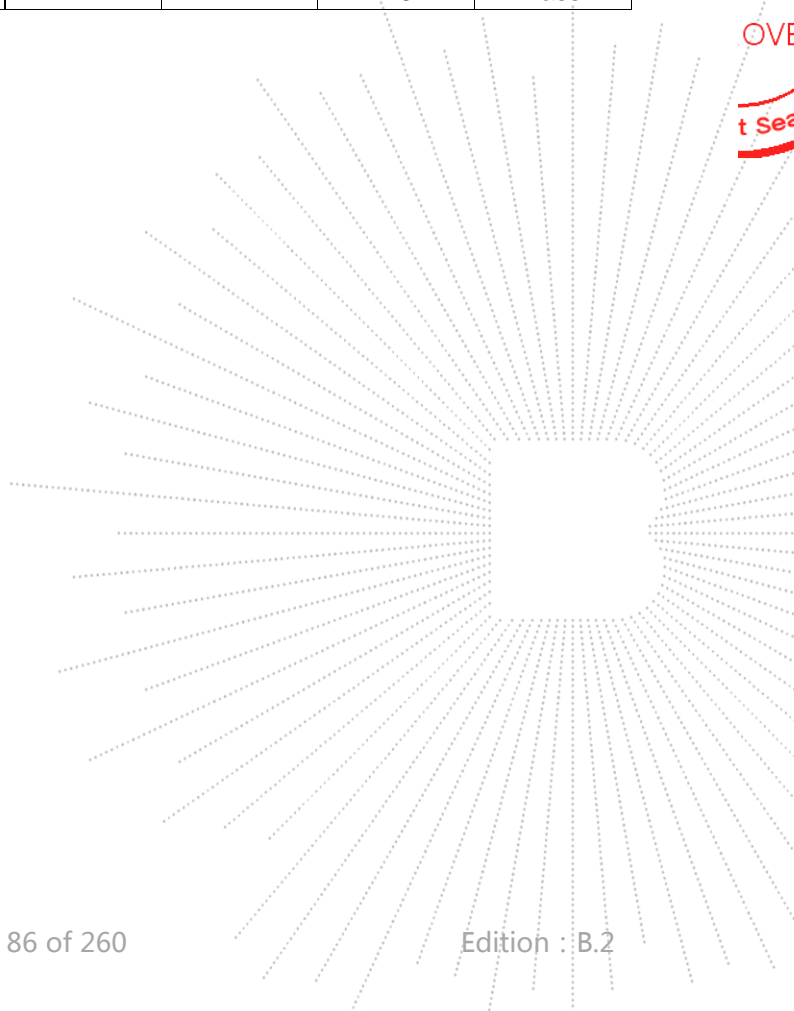
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



9.5 Test Result

| | | | |
|--------------|----------------|--------------------|-------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode: | (5180-5240MHz) | | |

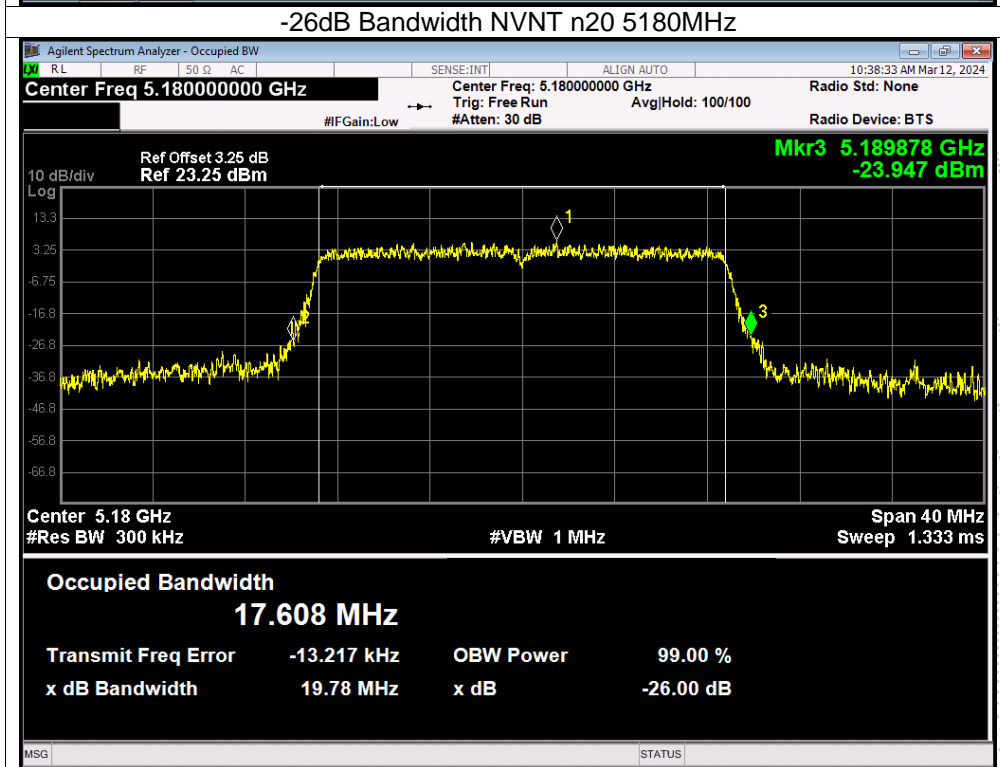
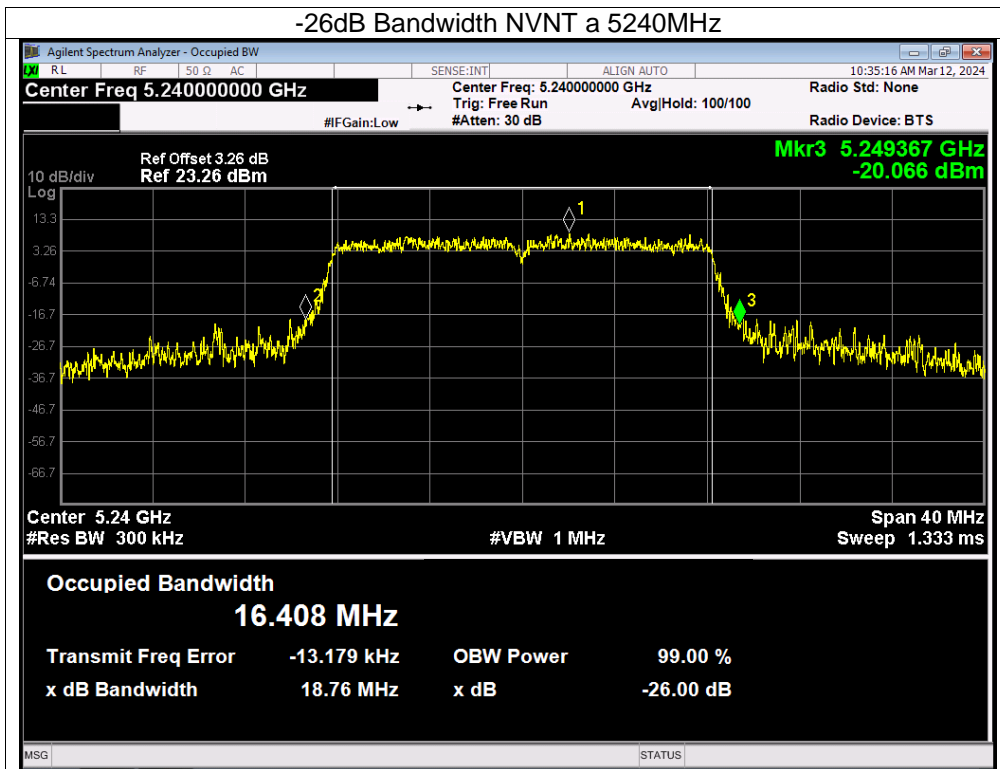
| Condition | Mode | Frequency (MHz) | -26 dB Bandwidth (MHz) | | 99% OBW (MHz) | | Verdict |
|-----------|------|-----------------|------------------------|---------------|---------------|--------|---------|
| | | | Ant A | Ant B | Ant A | Ant B | |
| NVNT | a | 5180 | 18.313 | 18.529 | 16.366 | 16.397 | Pass |
| NVNT | a | 5200 | 18.307 | 18.639 | 16.362 | 16.373 | Pass |
| NVNT | a | 5240 | 18.427 | 18.761 | 16.377 | 16.381 | Pass |
| NVNT | n20 | 5180 | 19.487 | 19.782 | 17.553 | 17.572 | Pass |
| NVNT | n20 | 5200 | 19.464 | 19.461 | 17.56 | 17.543 | Pass |
| NVNT | n20 | 5240 | 19.515 | 19.463 | 17.565 | 17.592 | Pass |
| NVNT | n40 | 5190 | 41.28 | 41.745 | 36.015 | 35.987 | Pass |
| NVNT | n40 | 5230 | 41.308 | 43.269 | 36.032 | 35.953 | Pass |
| NVNT | ac20 | 5180 | 19.259 | 19.664 | 17.548 | 17.549 | Pass |
| NVNT | ac20 | 5200 | 19.606 | 19.417 | 17.572 | 17.544 | Pass |
| NVNT | ac20 | 5240 | 19.6 | 19.56 | 17.574 | 17.556 | Pass |
| NVNT | ac40 | 5190 | 42.016 | 44.562 | 35.981 | 36.02 | Pass |
| NVNT | ac40 | 5230 | 41.628 | 42.09 | 35.974 | 36.075 | Pass |
| NVNT | ac80 | 5210 | 79.546 | 79.712 | 74.559 | 74.37 | Pass |

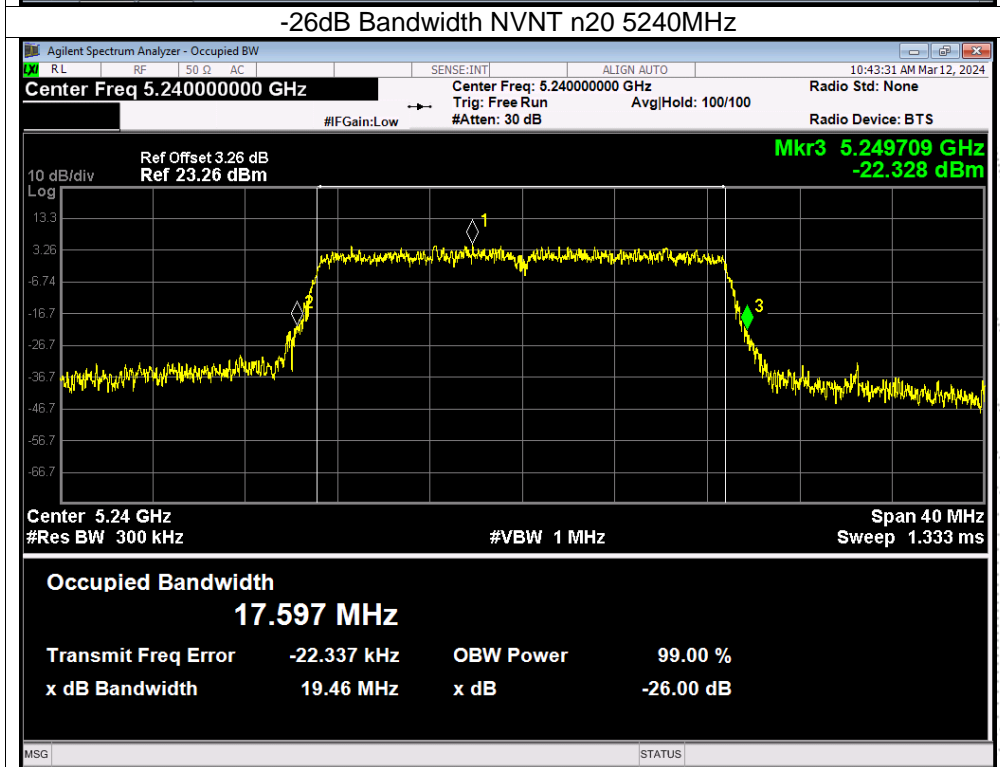
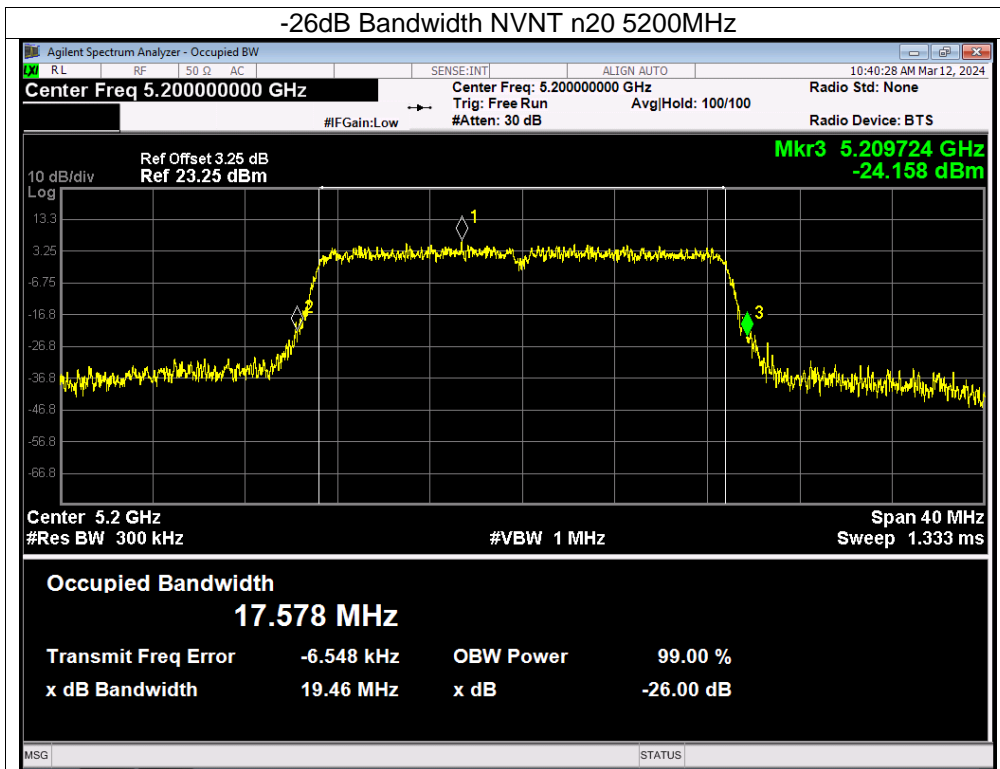


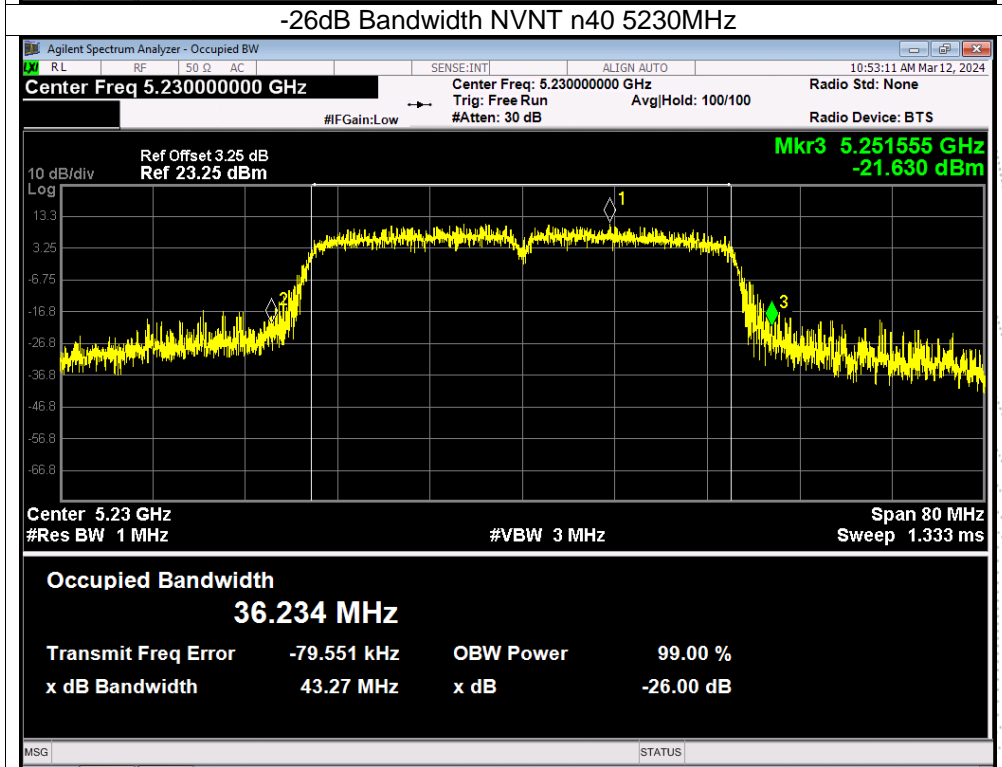
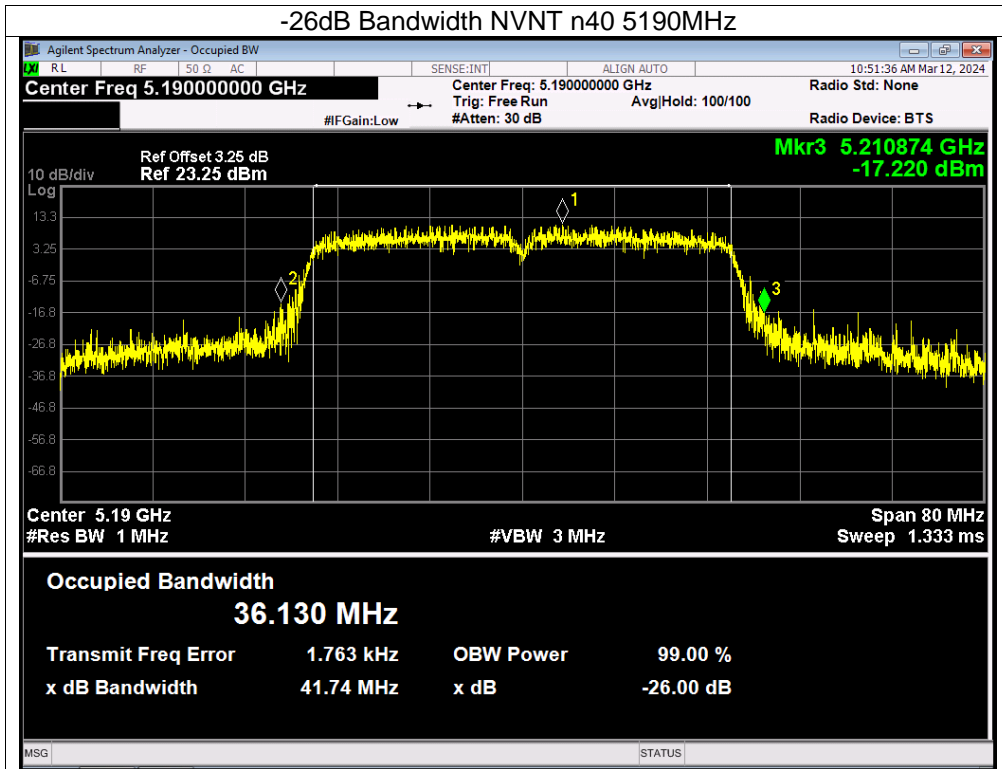
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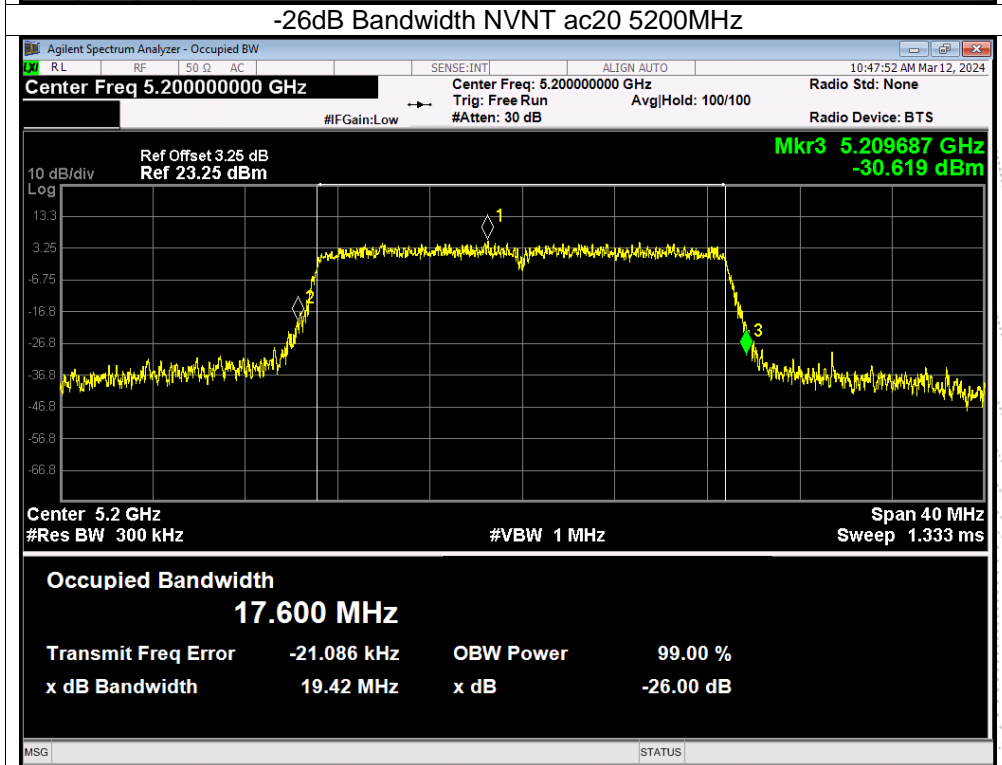
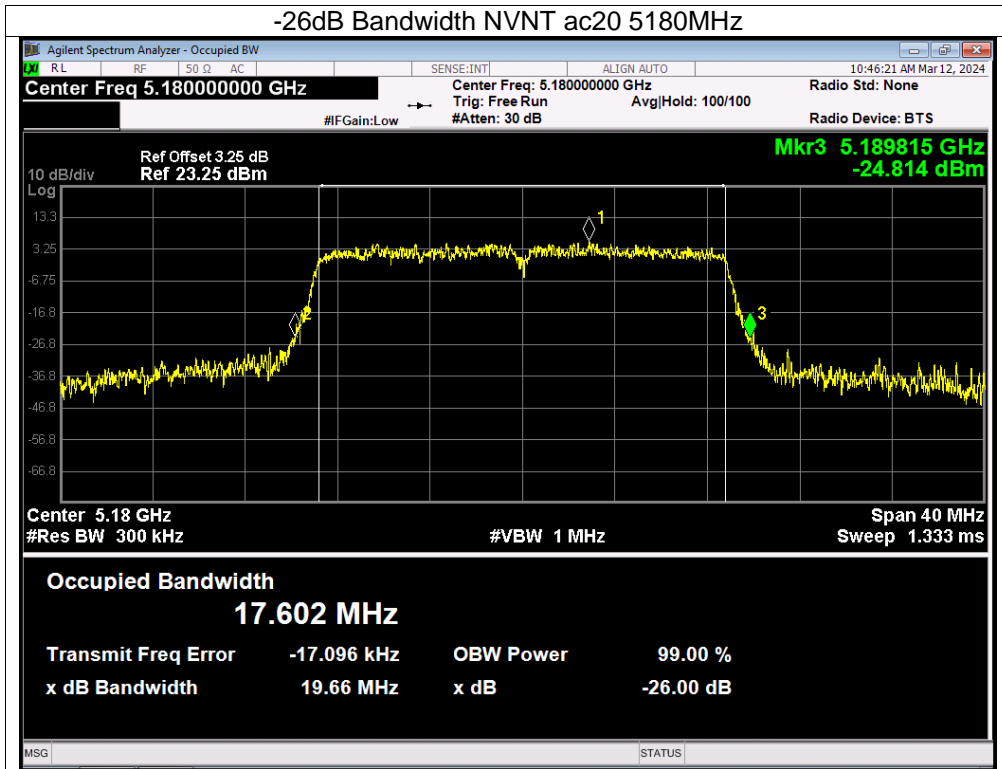
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

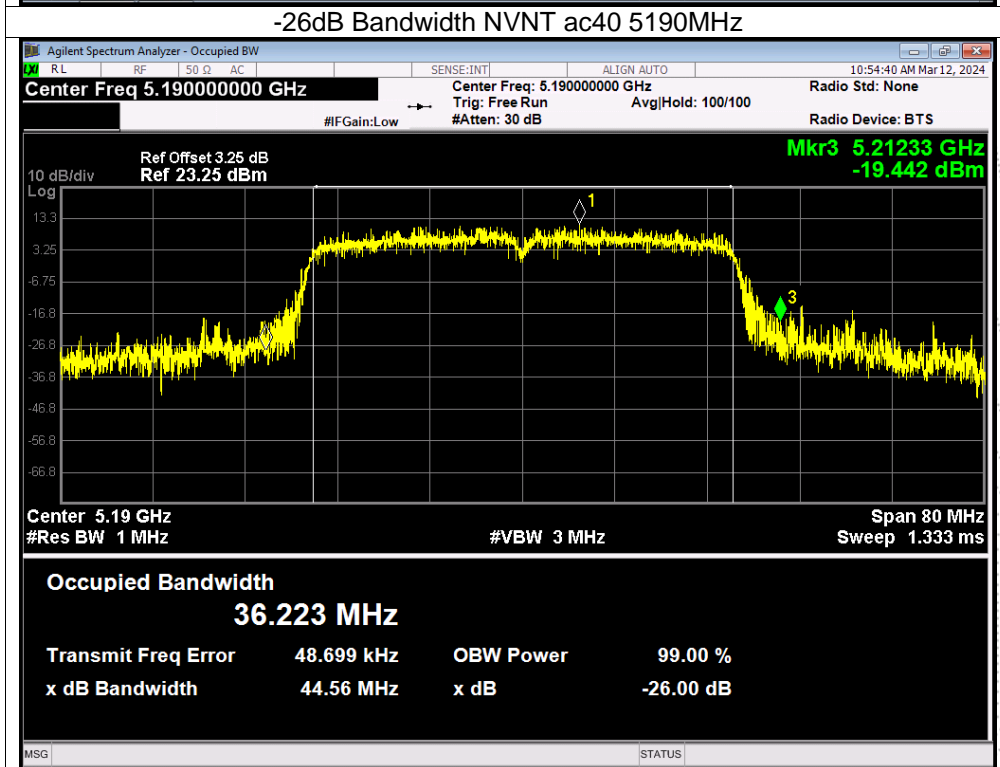
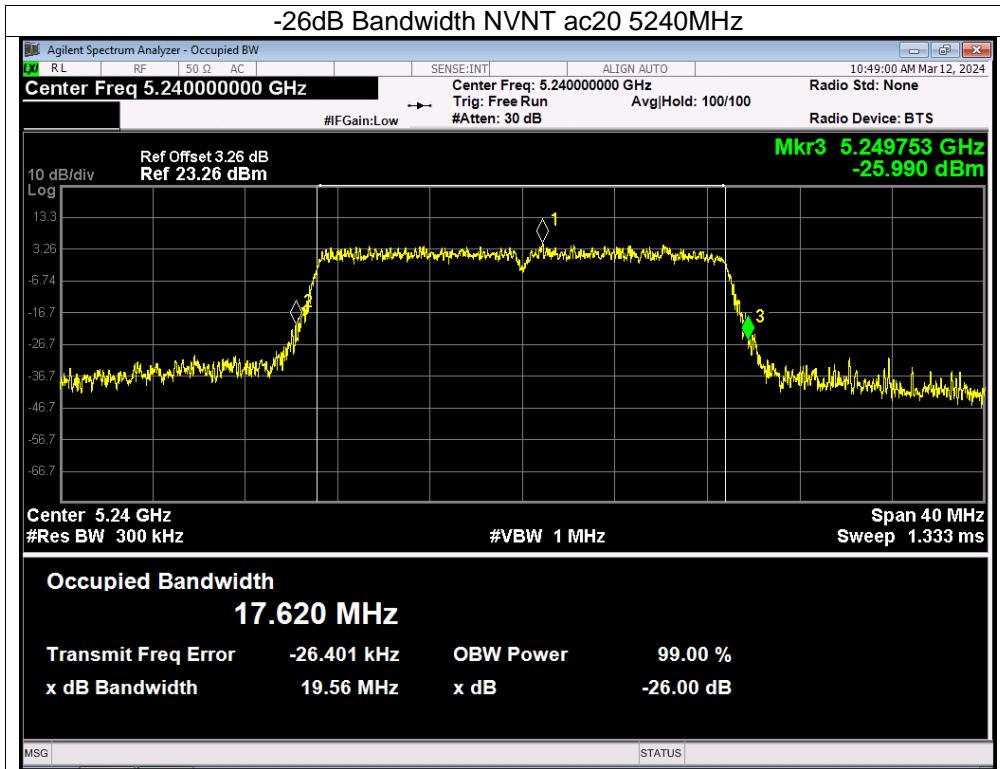


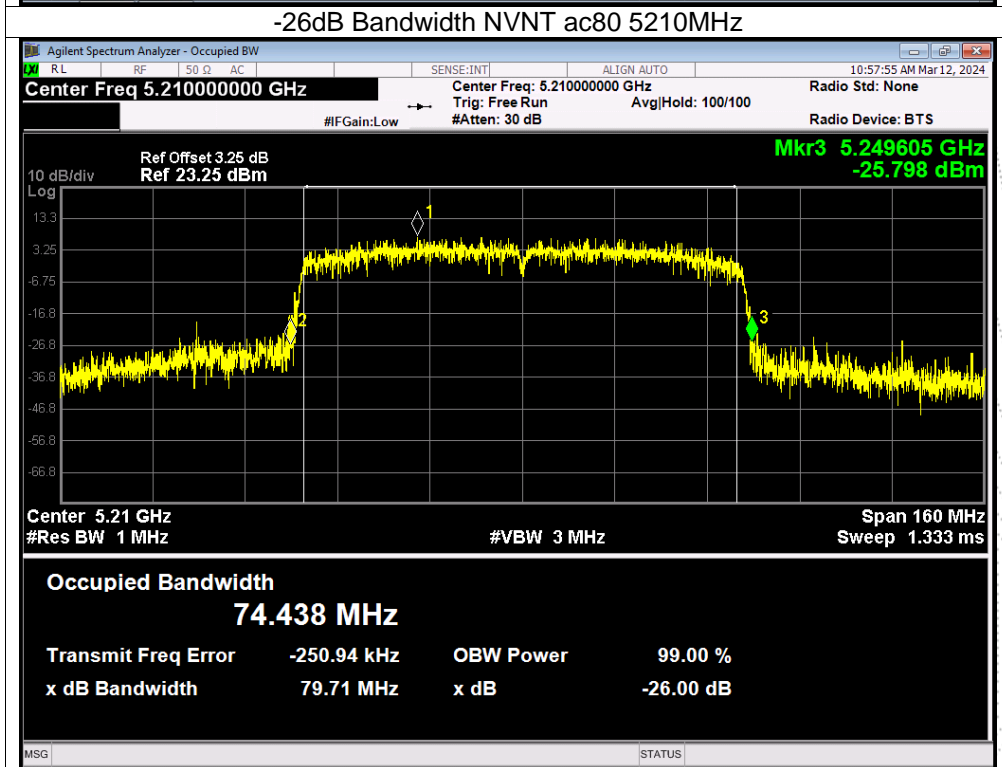
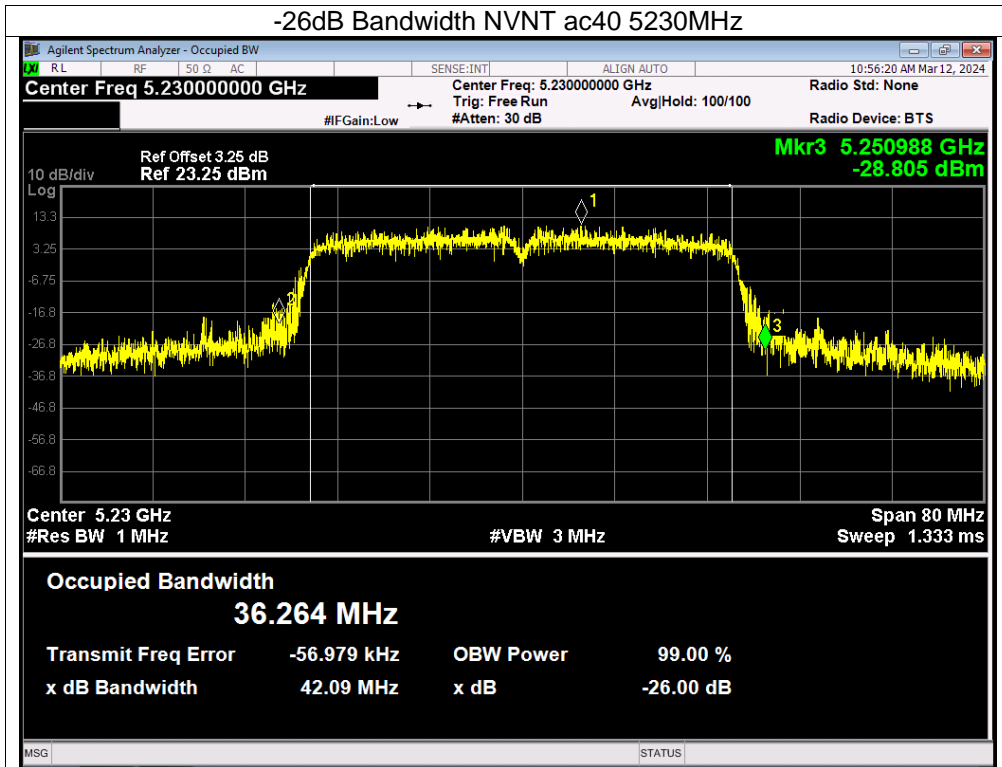




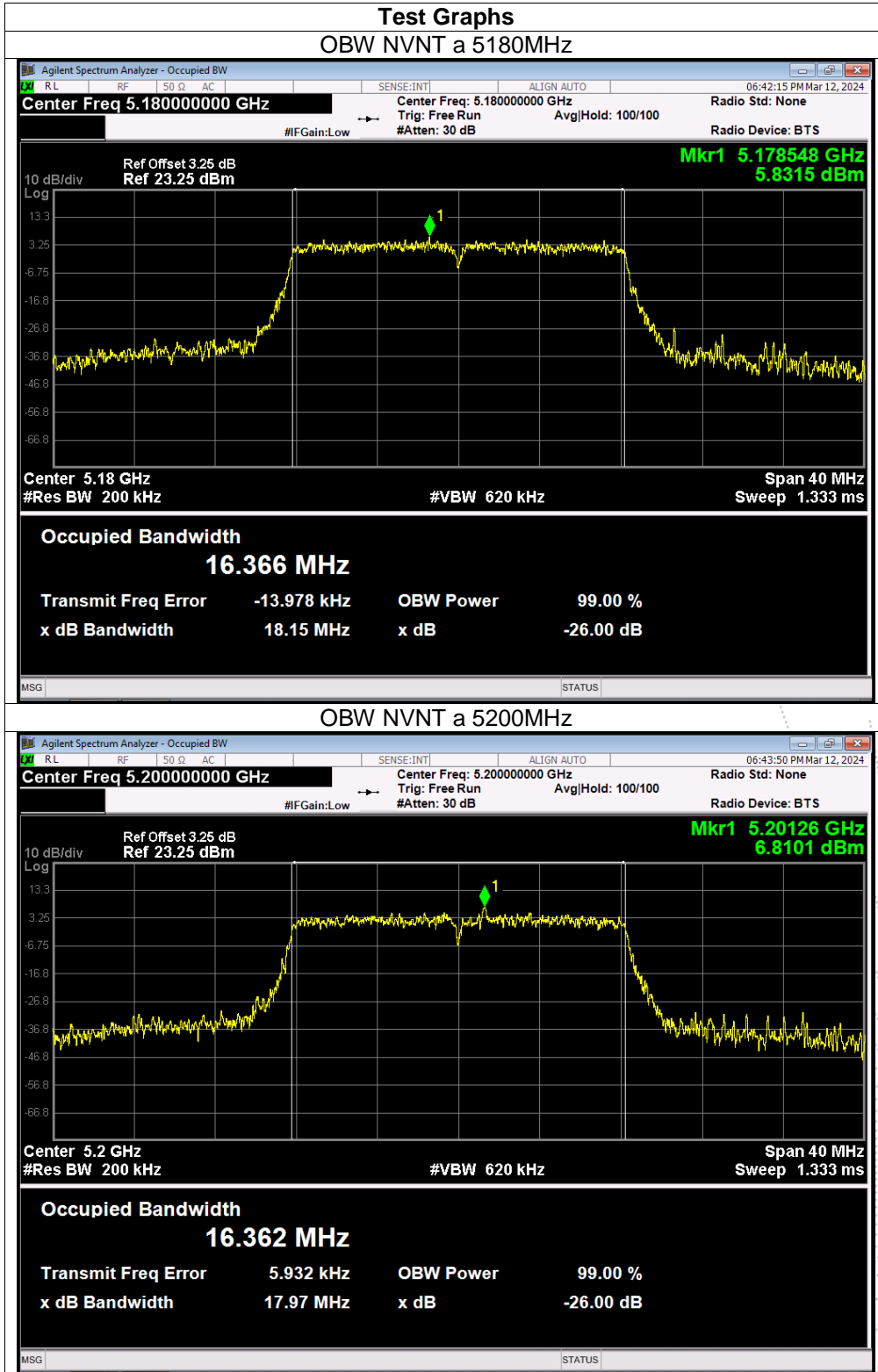


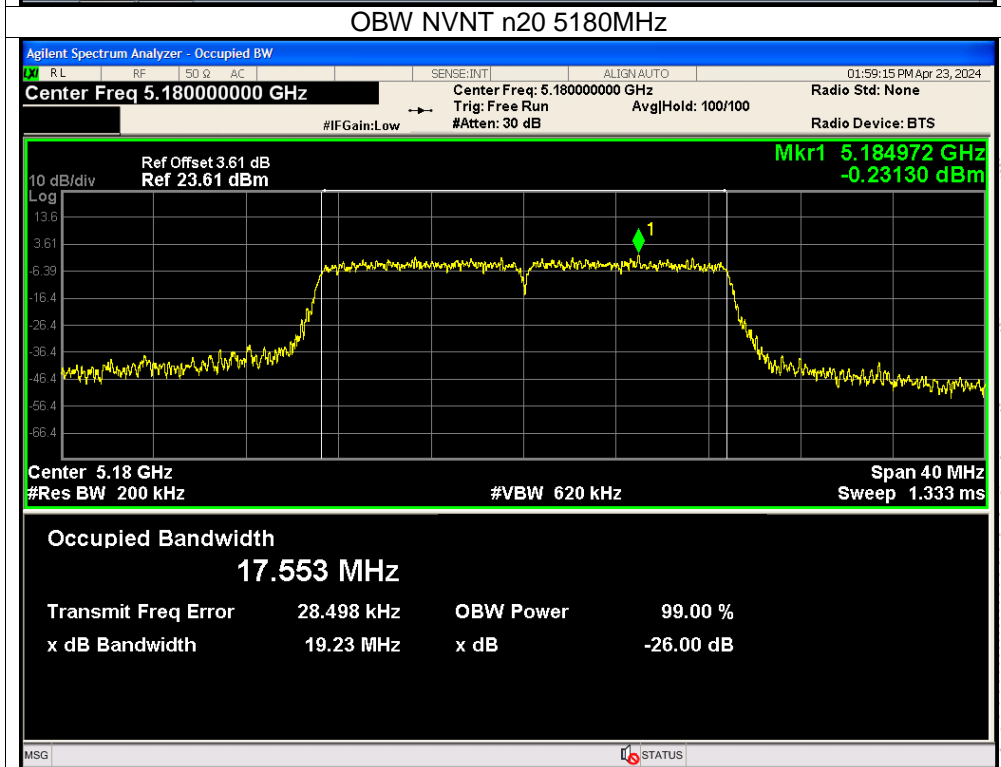
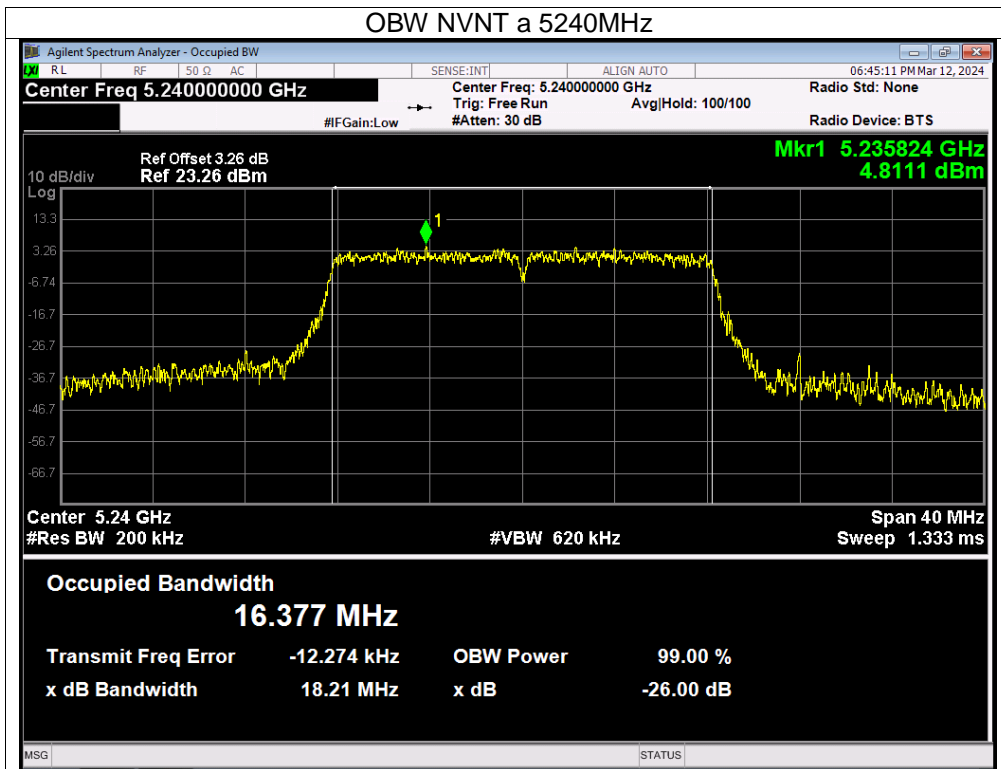


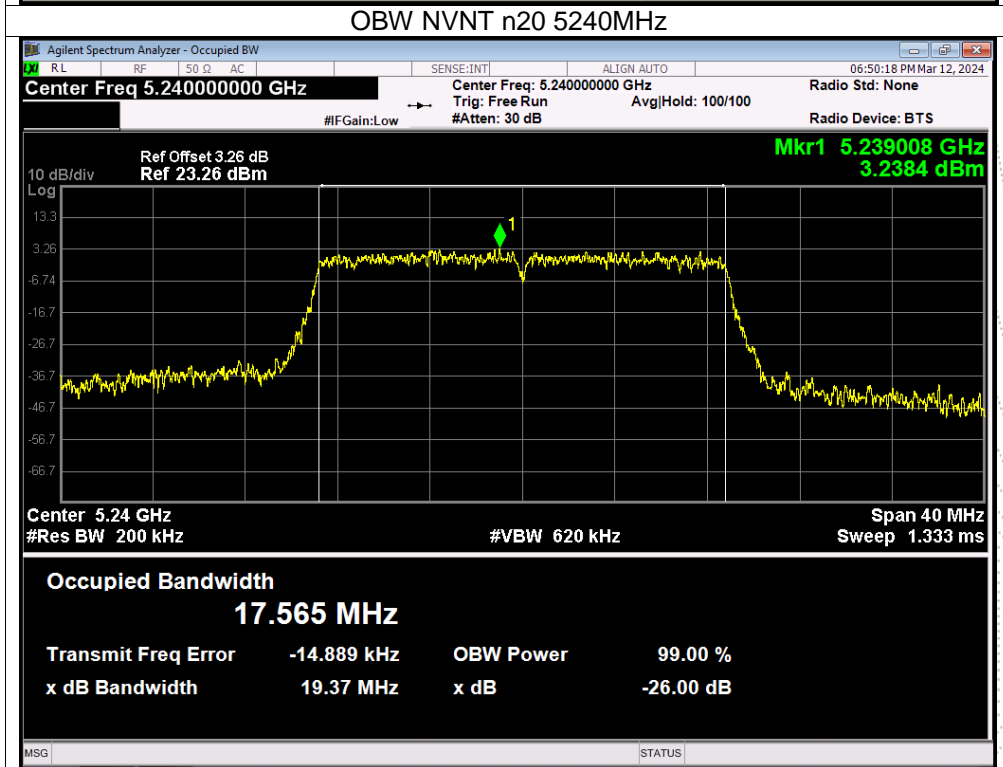
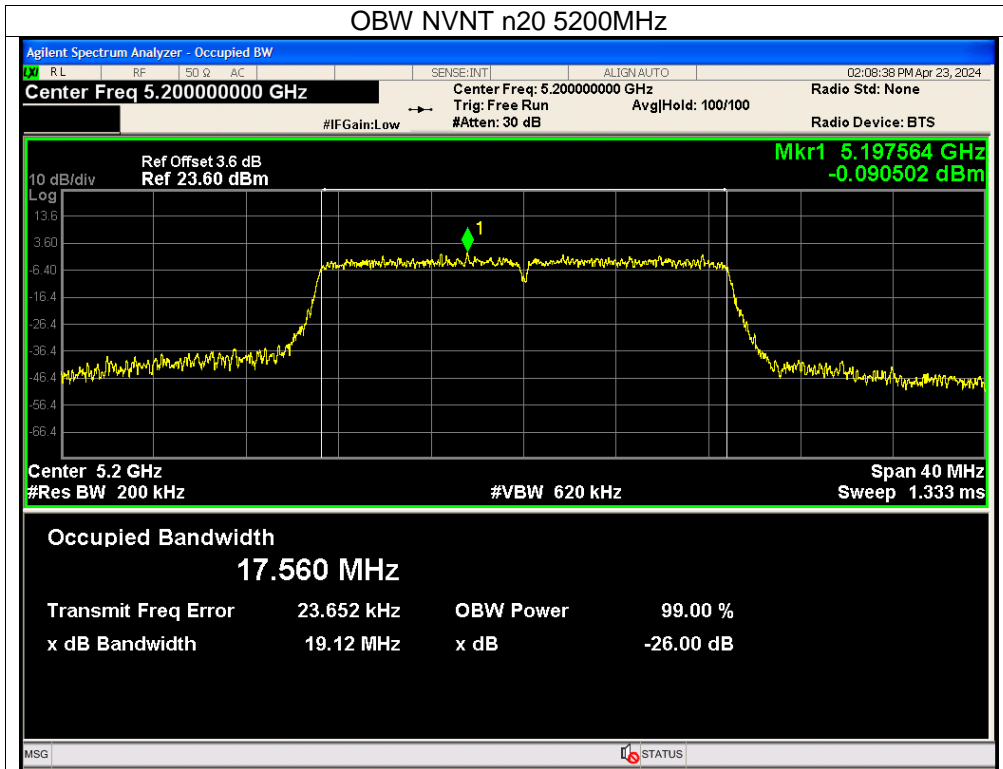




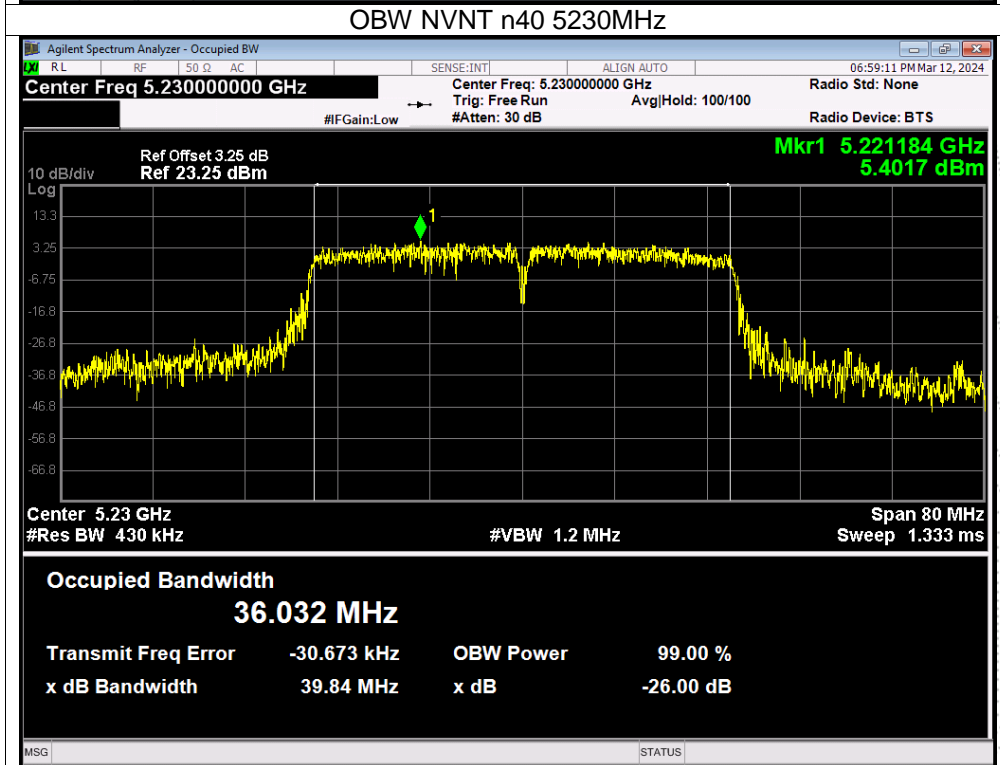
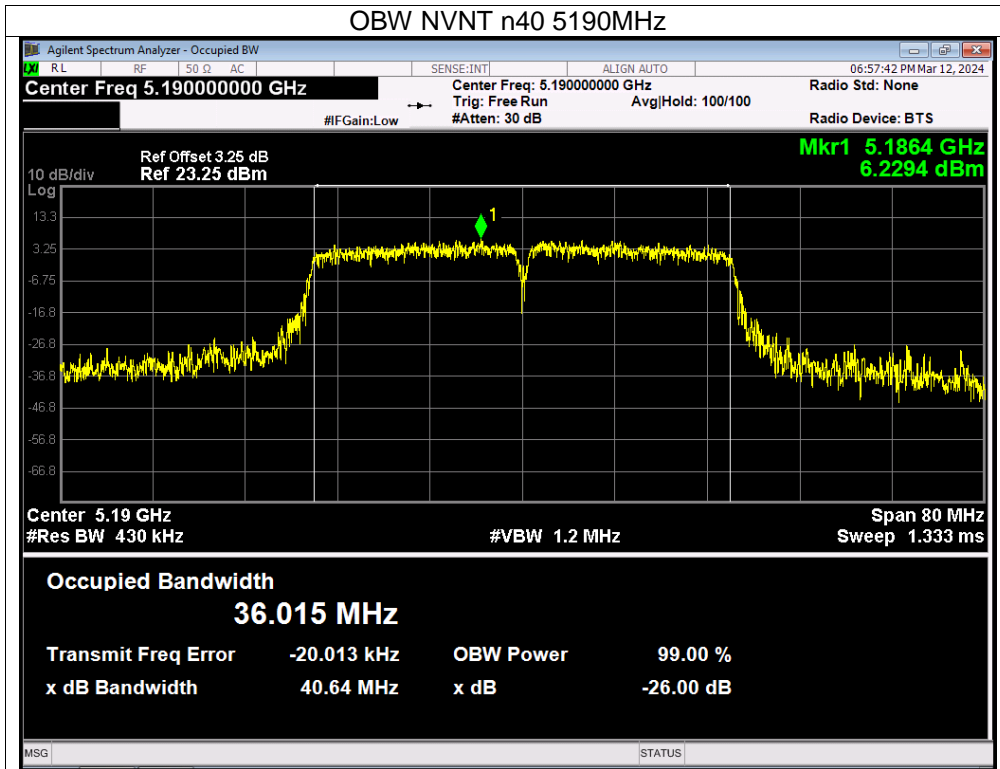
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.



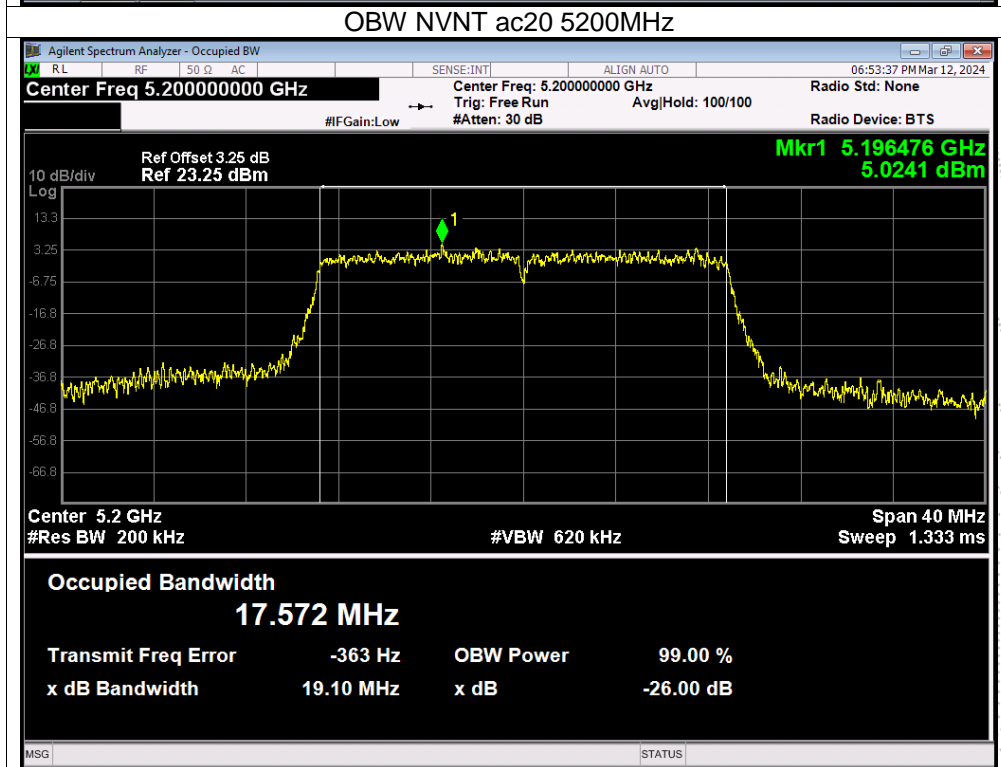
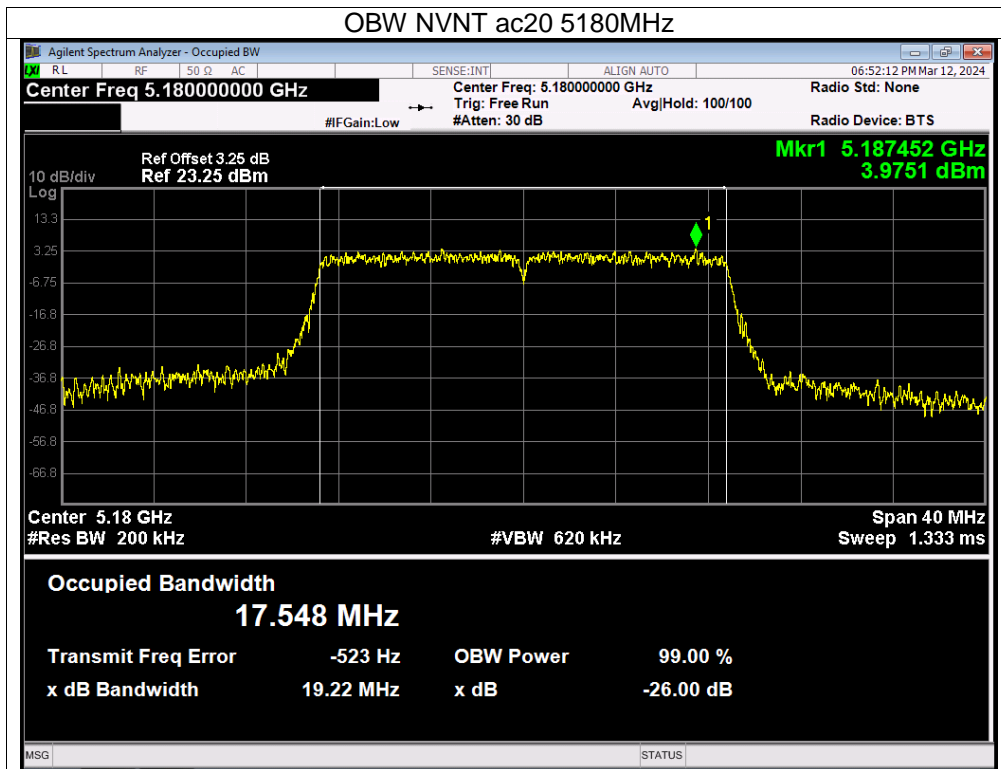




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