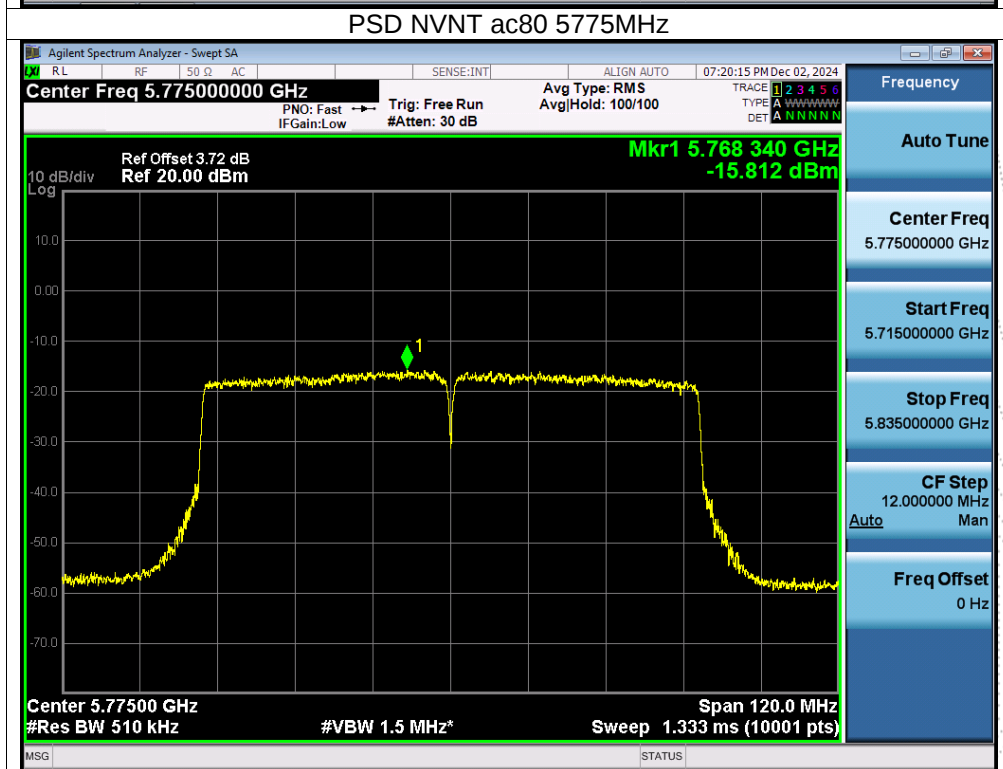
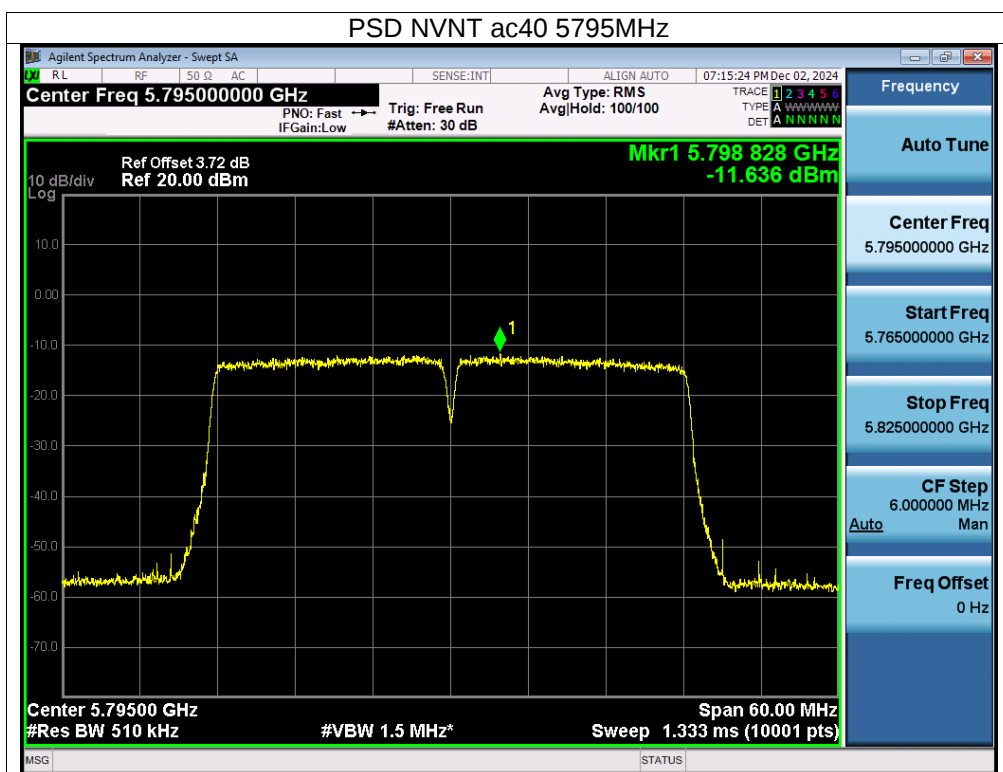
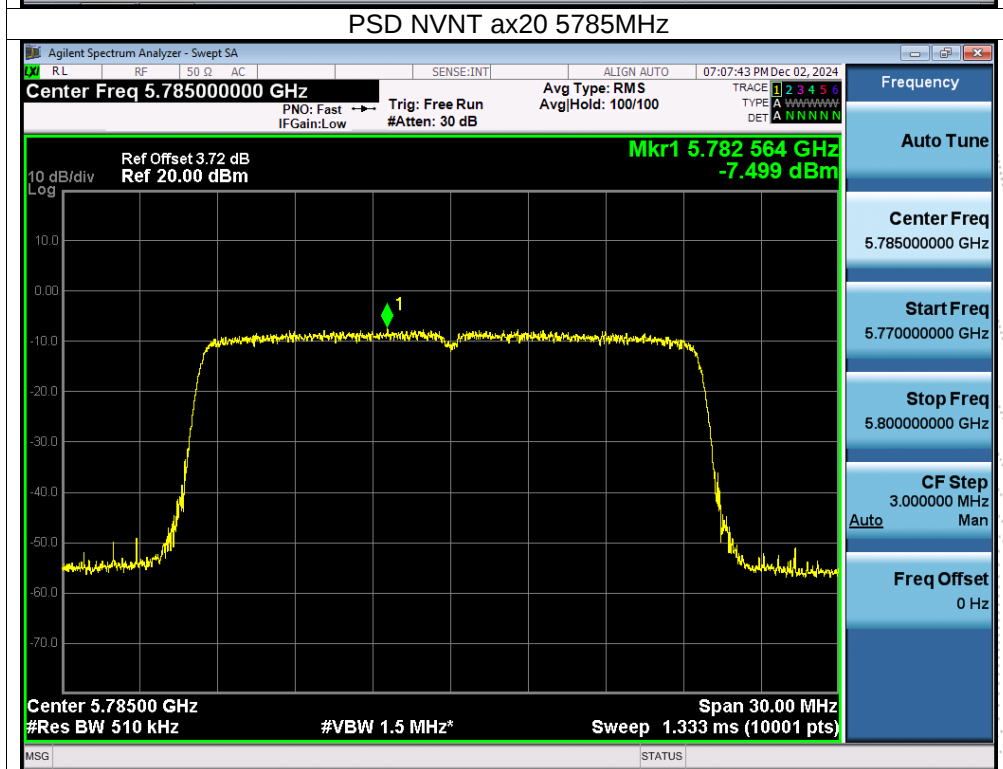
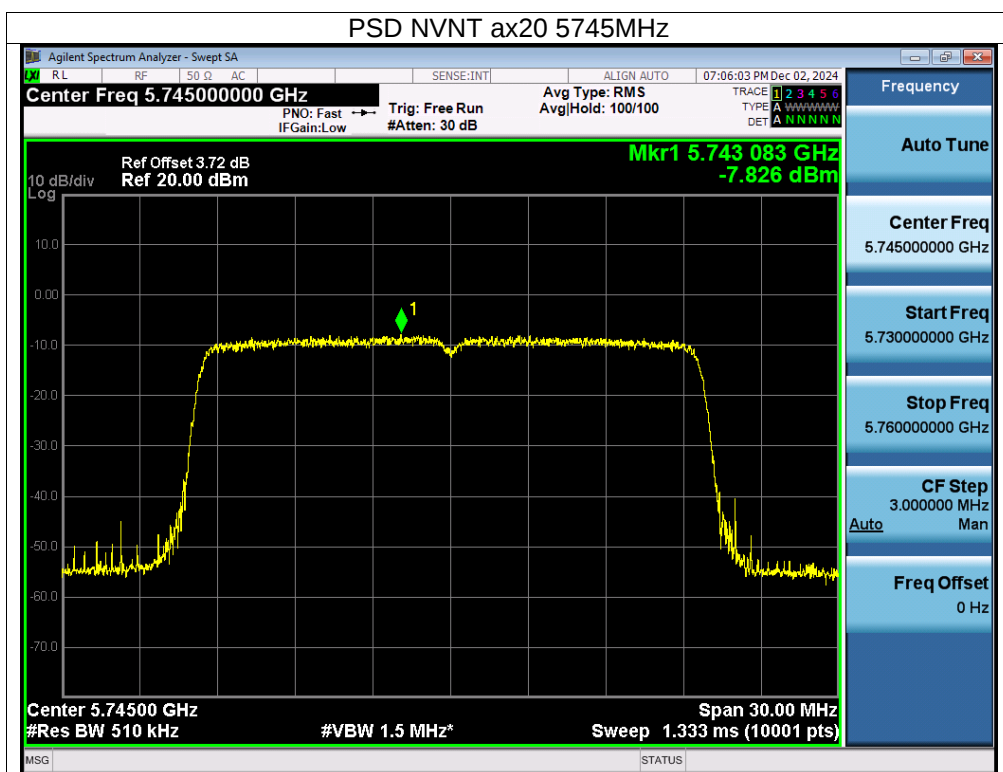
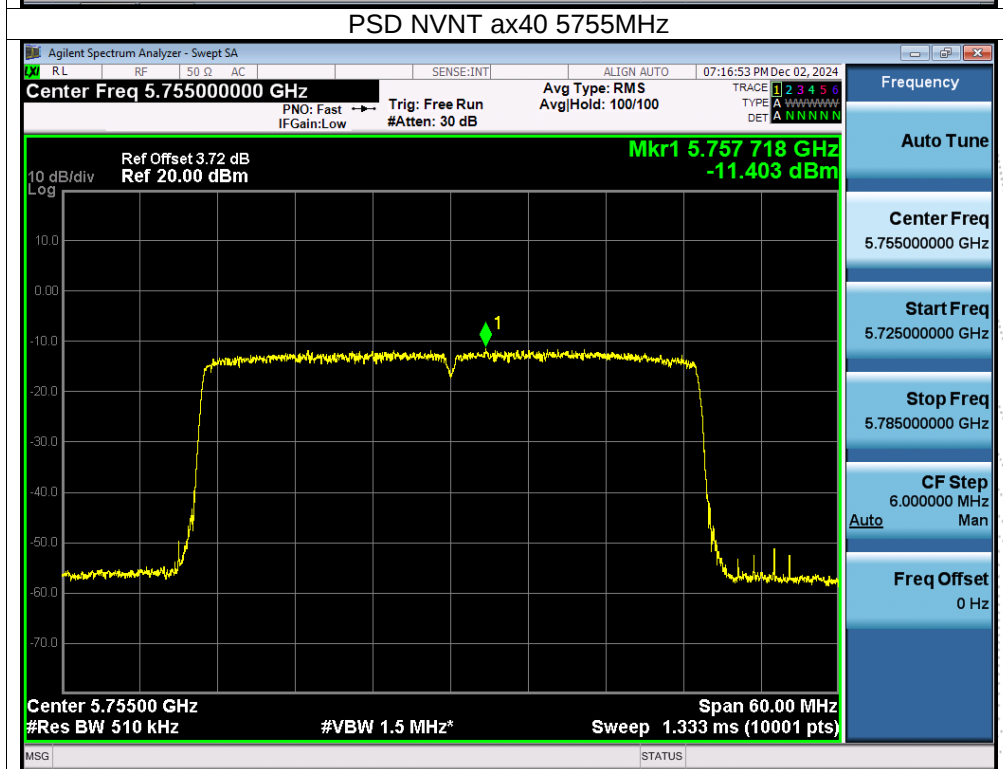
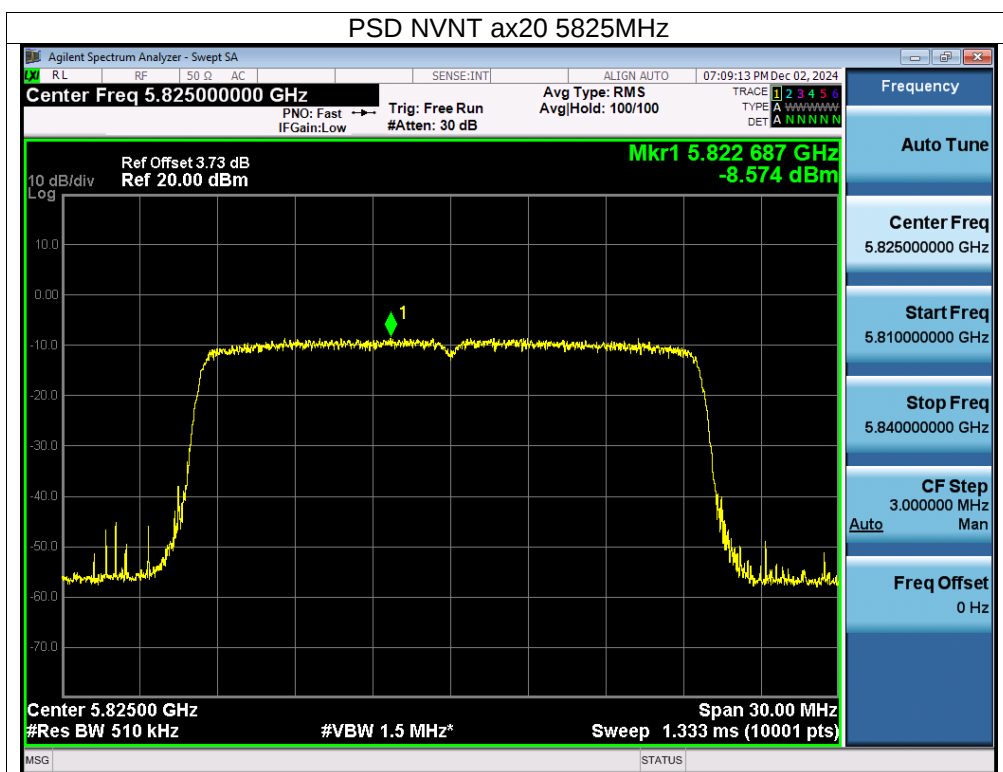
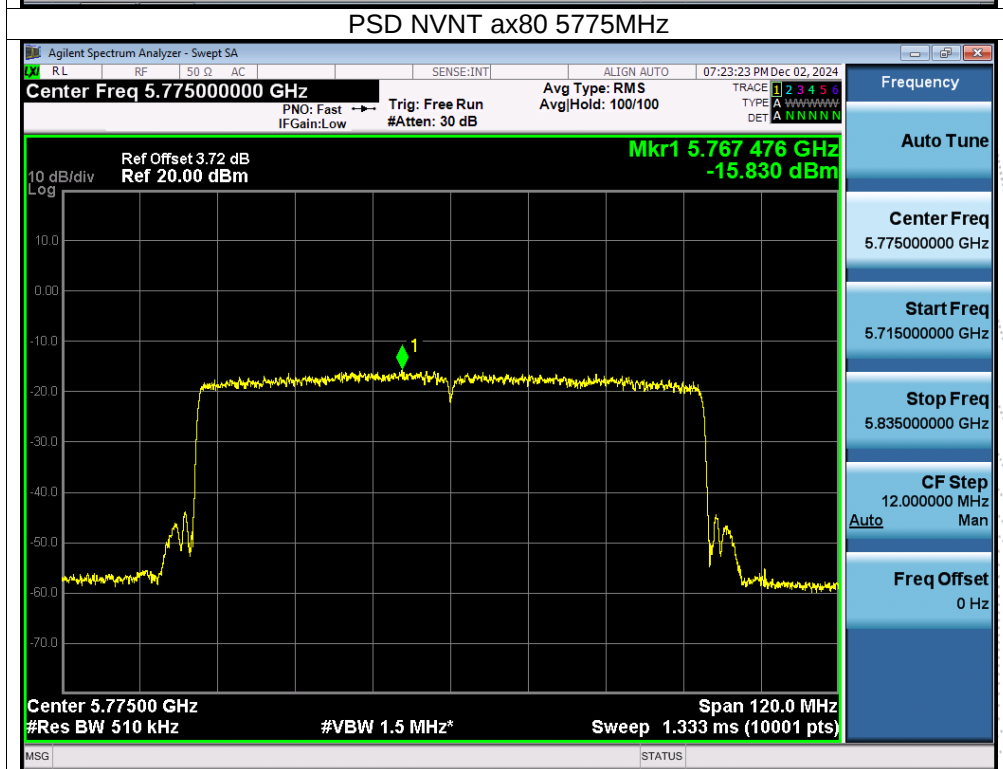
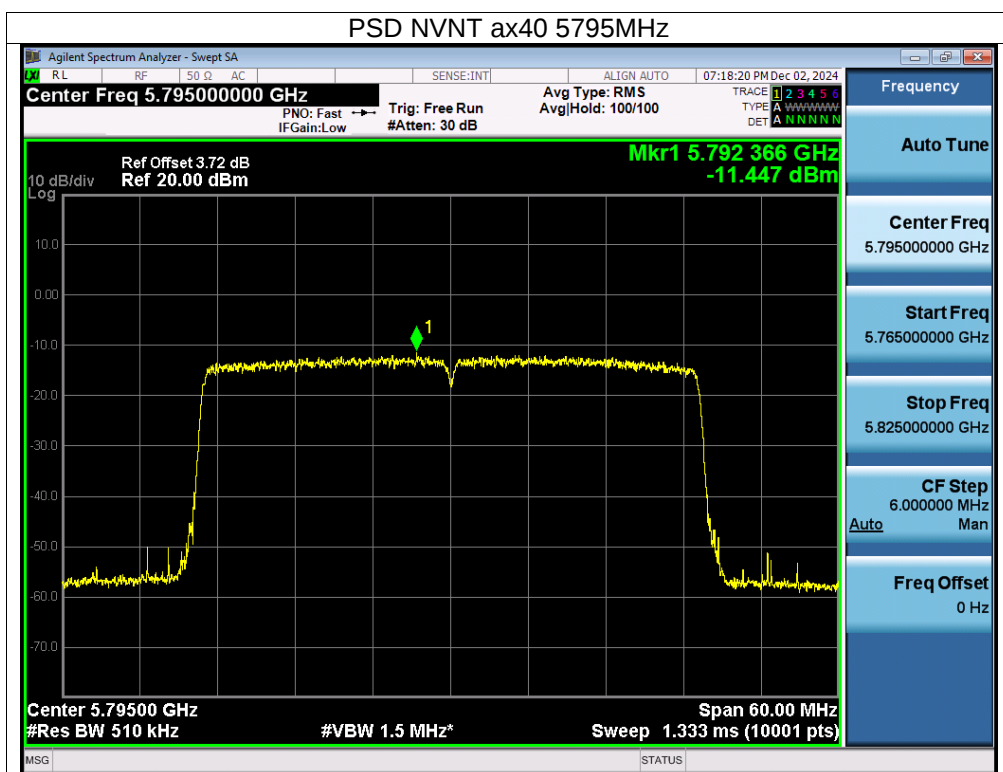




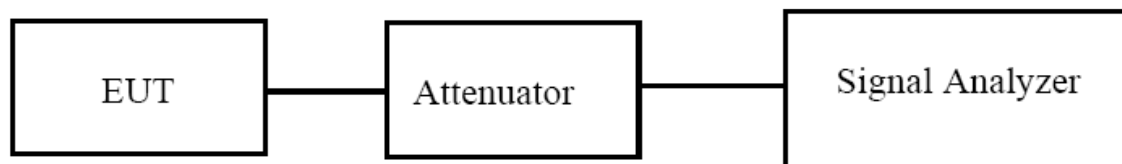






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.
(6dB bandwidth)>500kHz

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.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- 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.
- Use the 99 % power bandwidth function of the instrument (if available).
- 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.

6dB

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

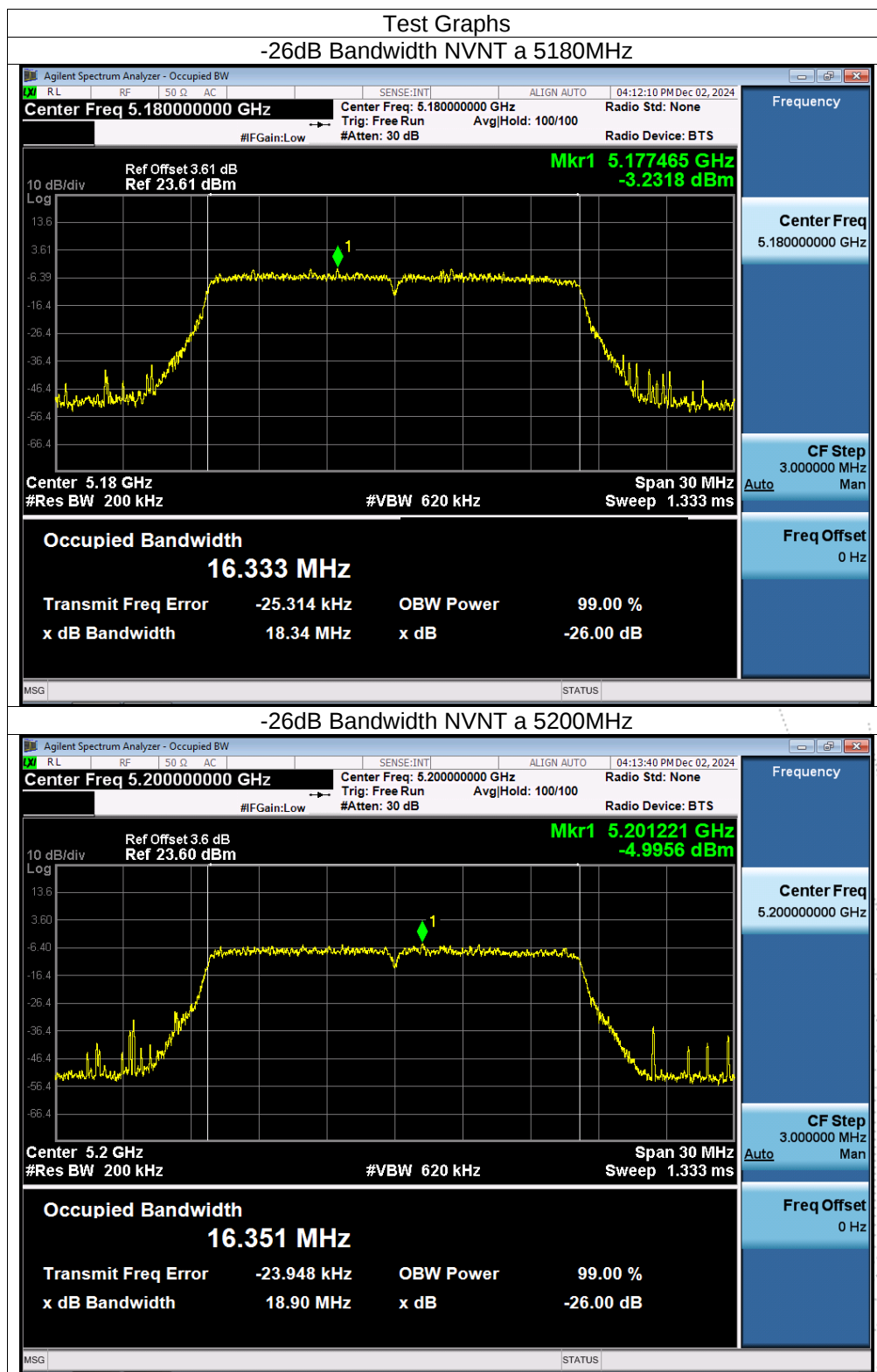
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

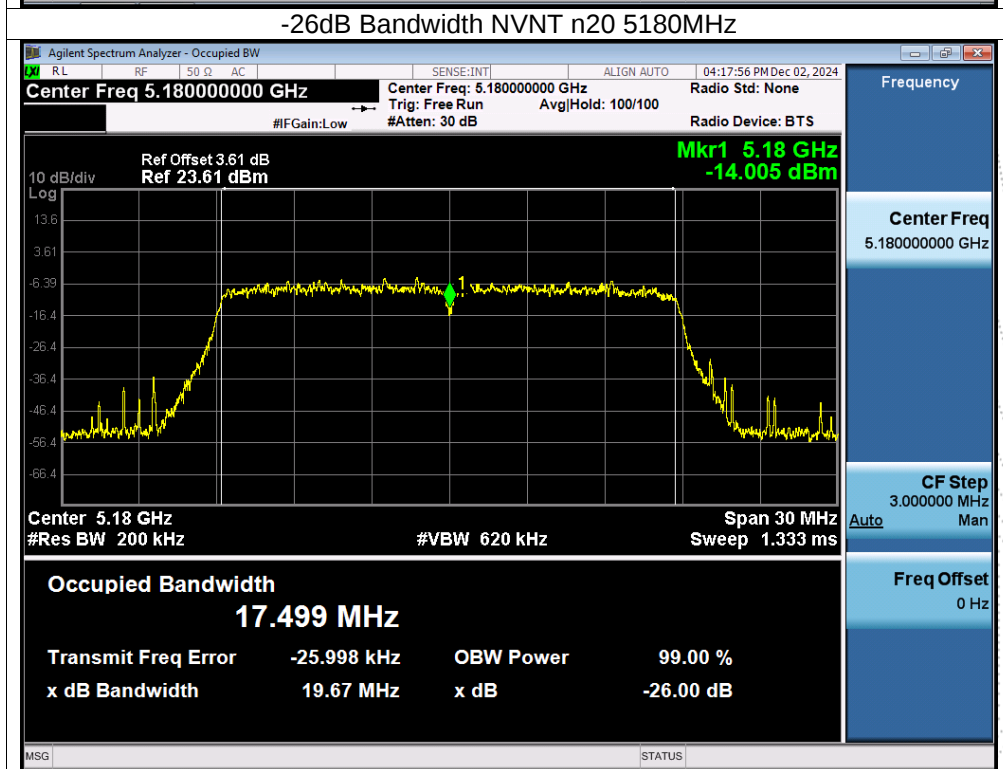
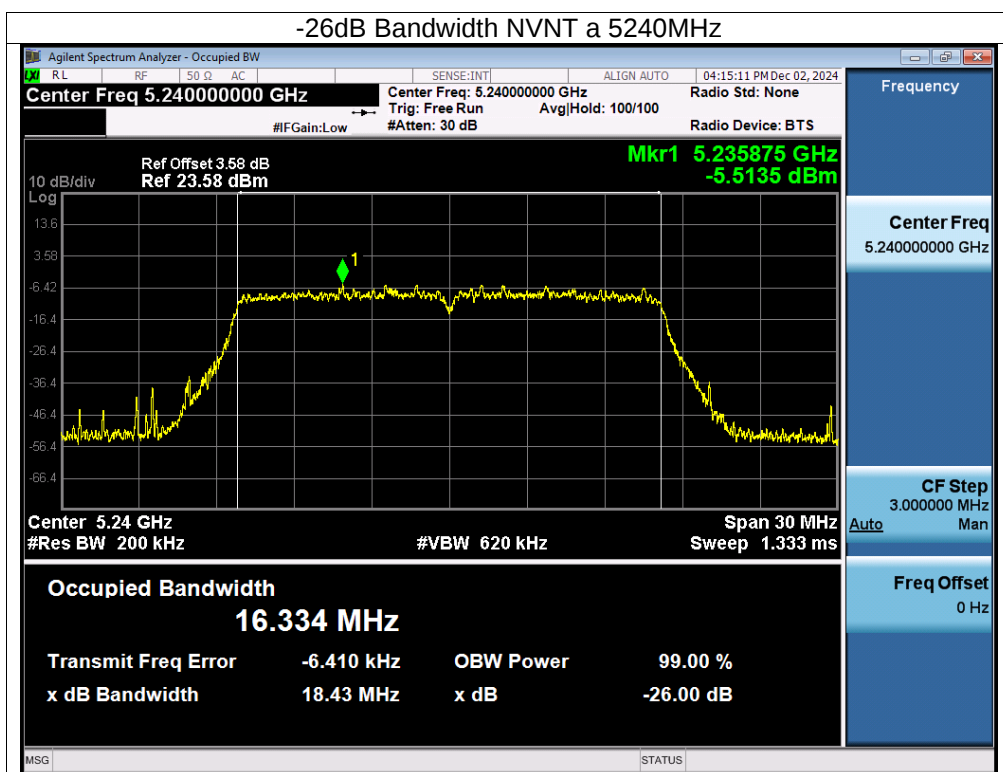
9.5 Test Result

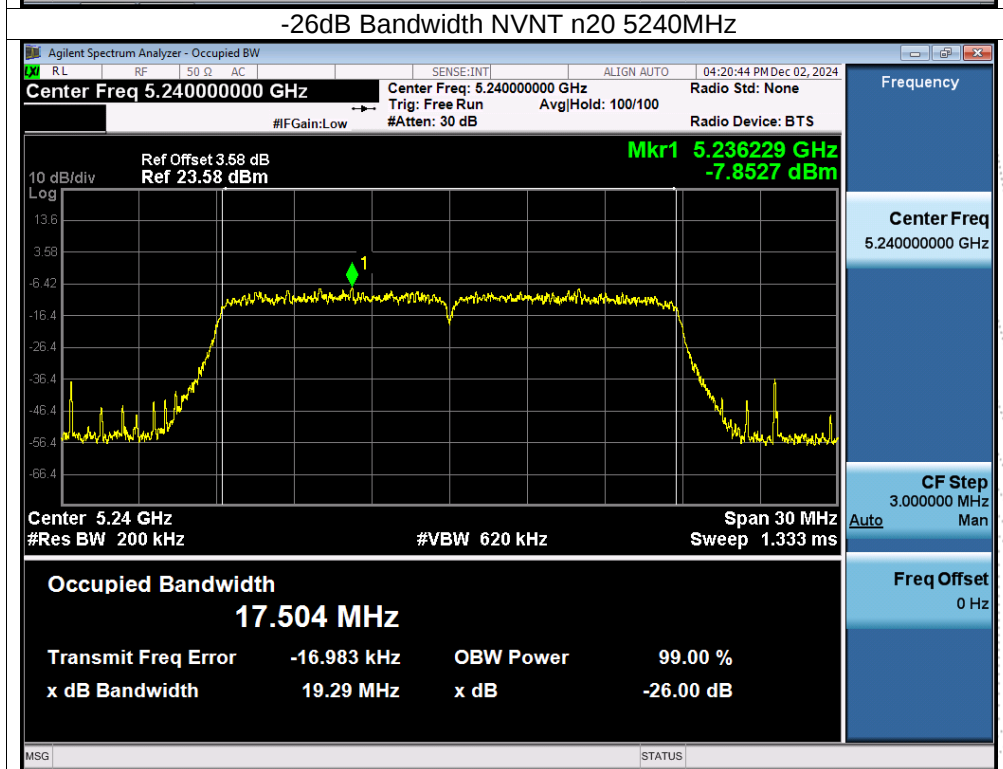
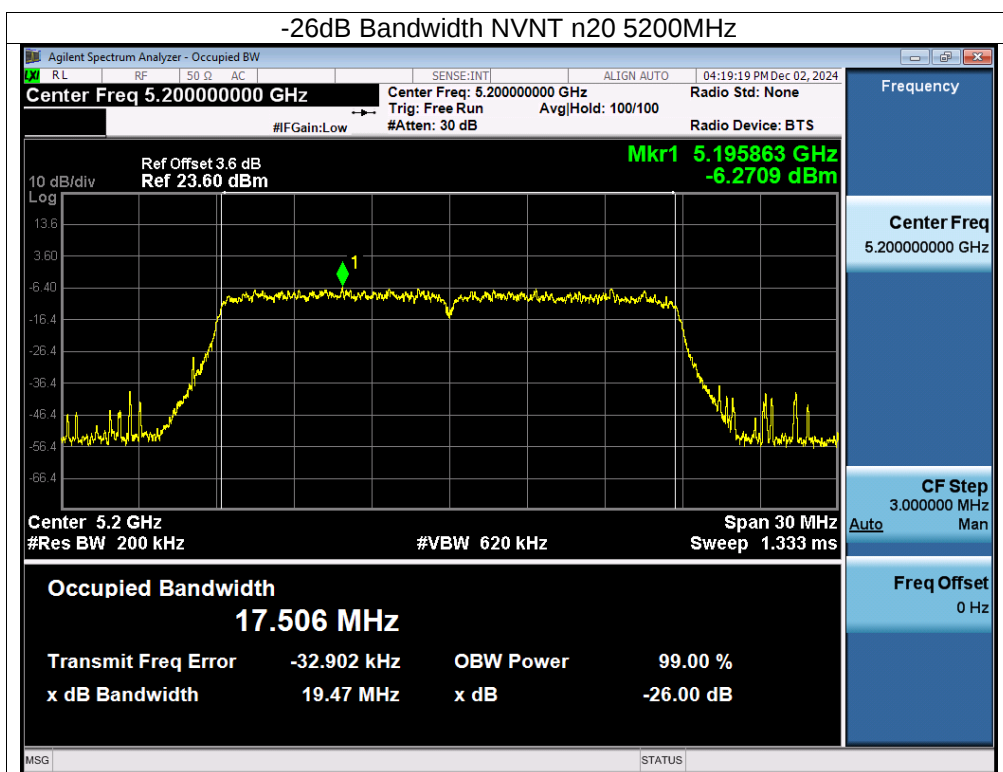
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 12V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

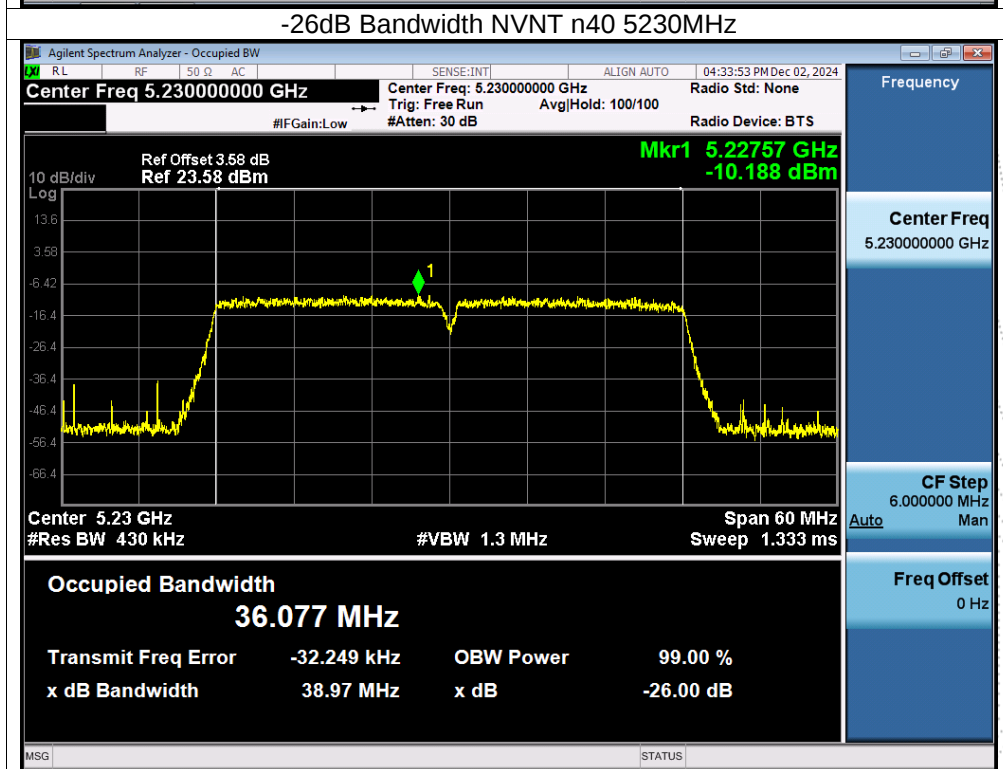
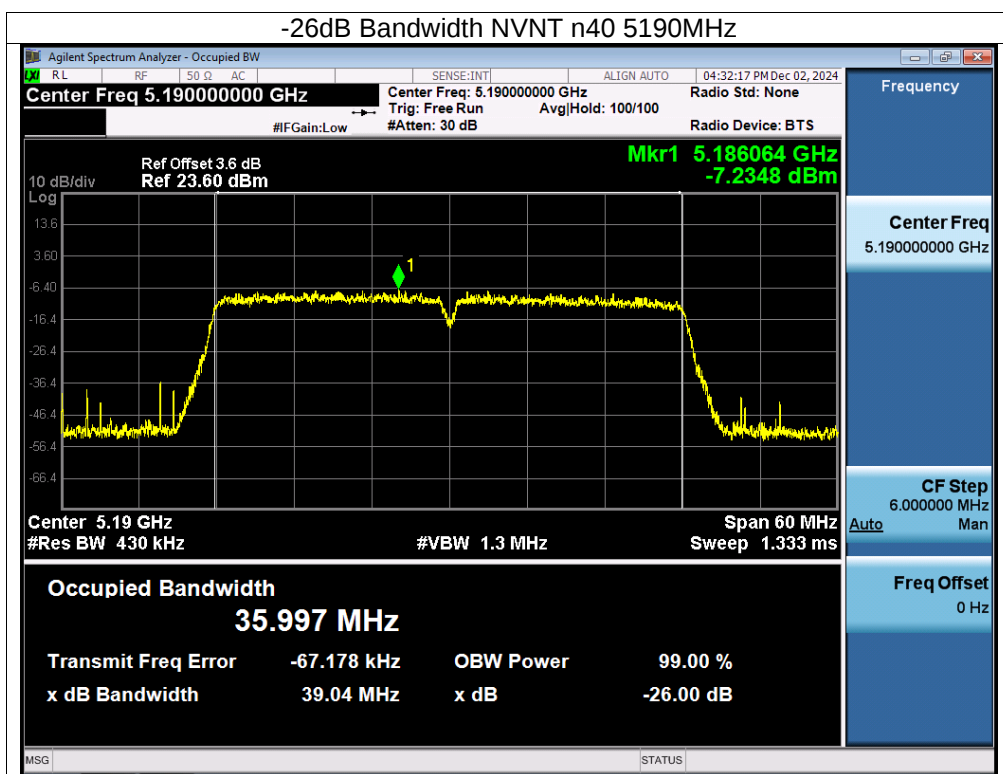
Mode	Channel	Frequency (MHz)	26dB bandwidth (MHz)		99% OBW (MHz)		Result
			ANT A	ANT B	ANT A	ANT B	
NVNT	a	5180	18.409	18.34	16.327	16.34	Pass
NVNT	a	5200	18.38	18.902	16.343	16.326	Pass
NVNT	a	5240	18.339	18.43	16.337	16.34	Pass
NVNT	n20	5180	19.128	19.667	17.502	17.498	Pass
NVNT	n20	5200	19.324	19.471	17.511	17.509	Pass
NVNT	n20	5240	19.298	19.285	17.497	17.498	Pass
NVNT	n40	5190	39.171	39.044	36	35.983	Pass
NVNT	n40	5230	38.937	38.97	36.001	36.079	Pass
NVNT	ac20	5180	19.133	19.277	17.489	17.506	Pass
NVNT	ac20	5200	19.181	19.158	17.521	17.505	Pass
NVNT	ac20	5240	19.165	19.316	17.508	17.513	Pass
NVNT	ac40	5190	38.778	38.695	36.035	36.019	Pass
NVNT	ac40	5230	39.995	40.192	36.04	36.053	Pass
NVNT	ac80	5210	86.469	87.232	76.221	76.197	Pass
NVNT	ax20	5180	21.118	20.436	18.863	18.857	Pass
NVNT	ax20	5200	20.689	20.242	18.883	18.89	Pass
NVNT	ax20	5240	20.09	20.285	18.883	18.891	Pass
NVNT	ax40	5190	39.631	40.005	37.632	37.607	Pass
NVNT	ax40	5230	39.666	40.012	37.632	37.636	Pass
NVNT	ax80	5210	80.688	81.131	77.286	77.38	Pass

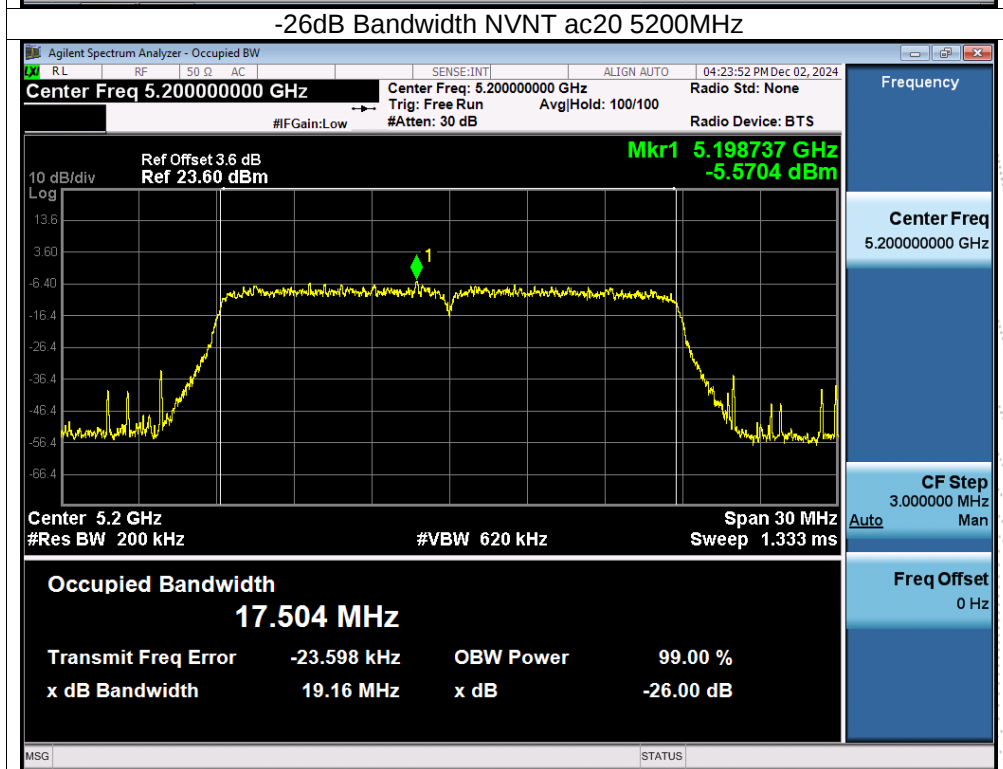
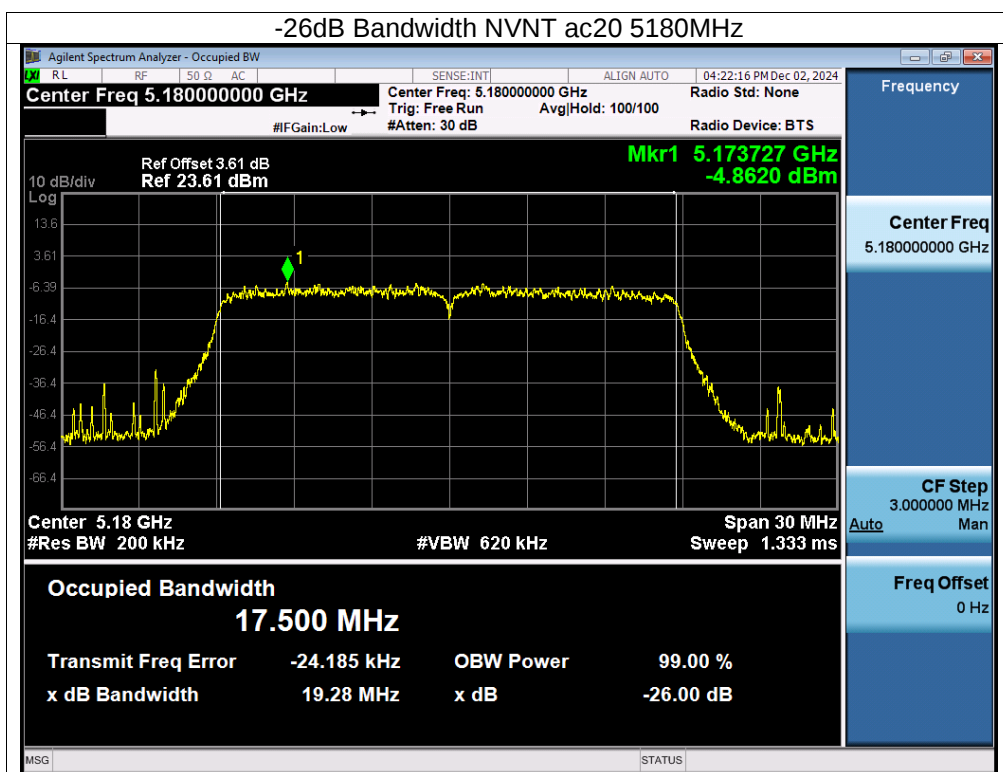
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

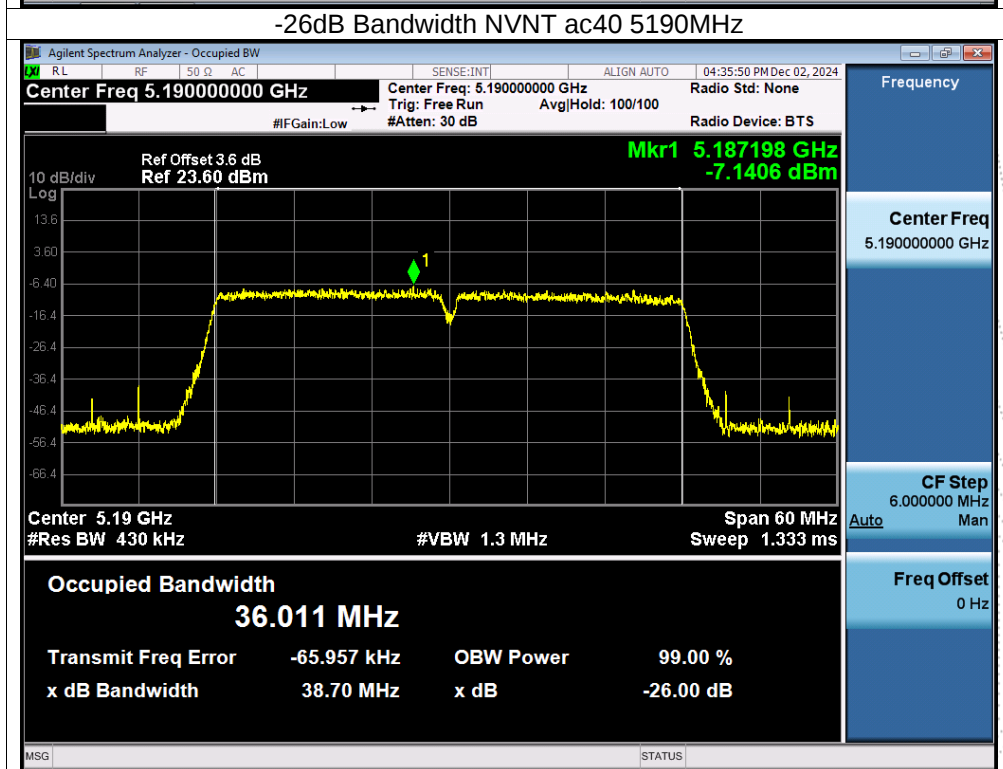
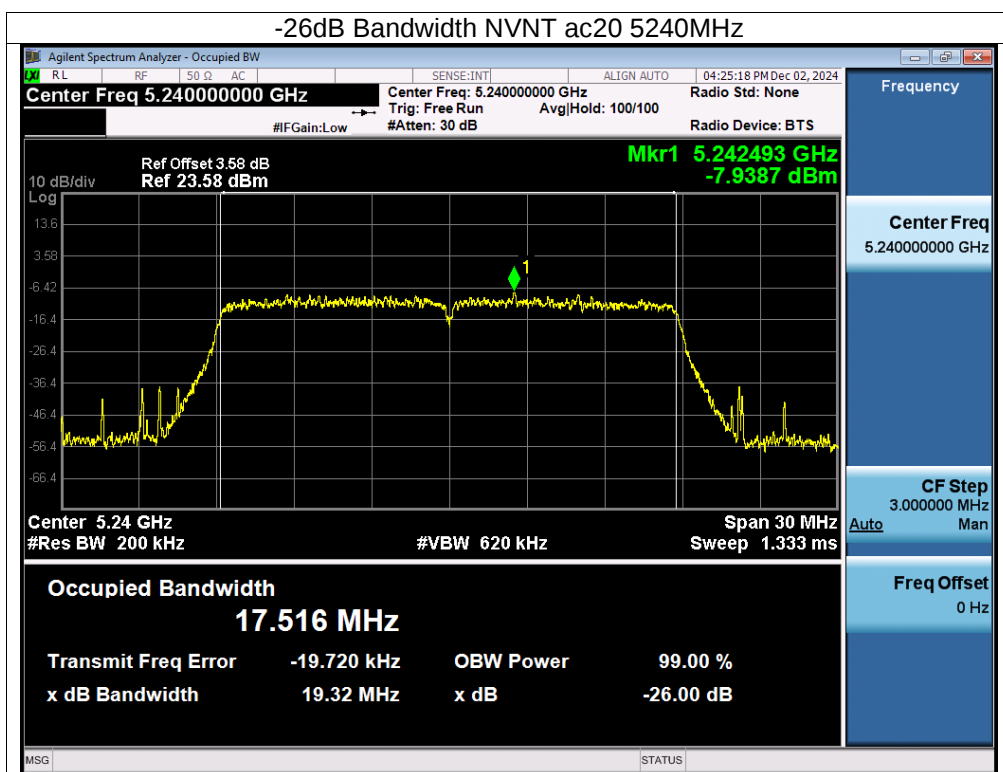


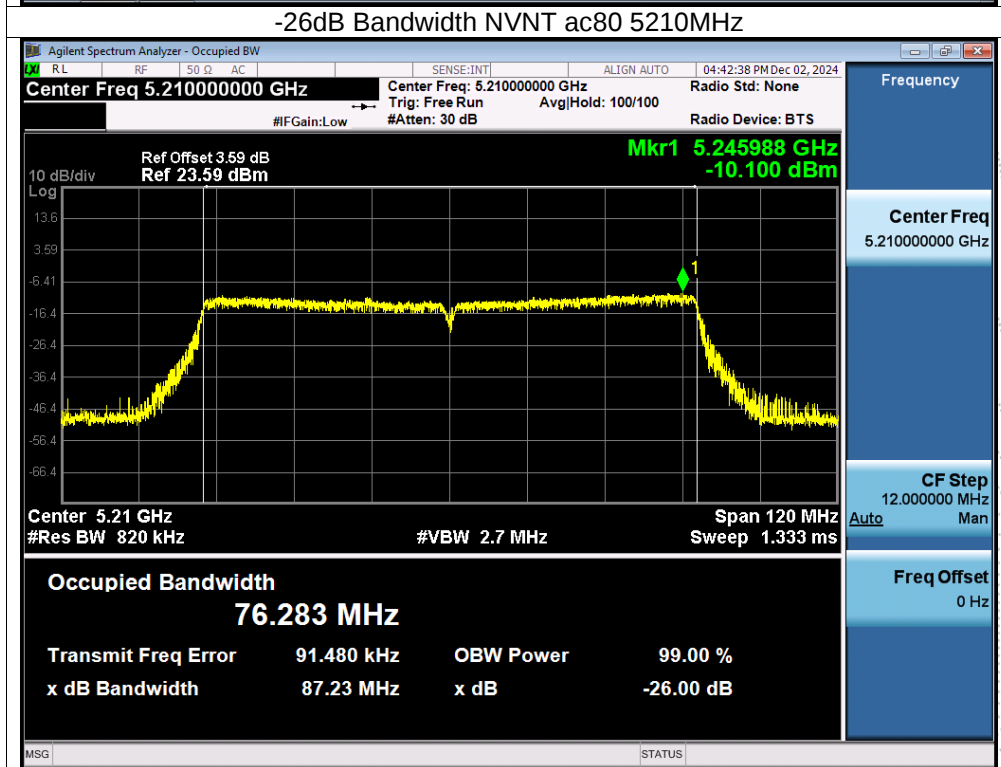
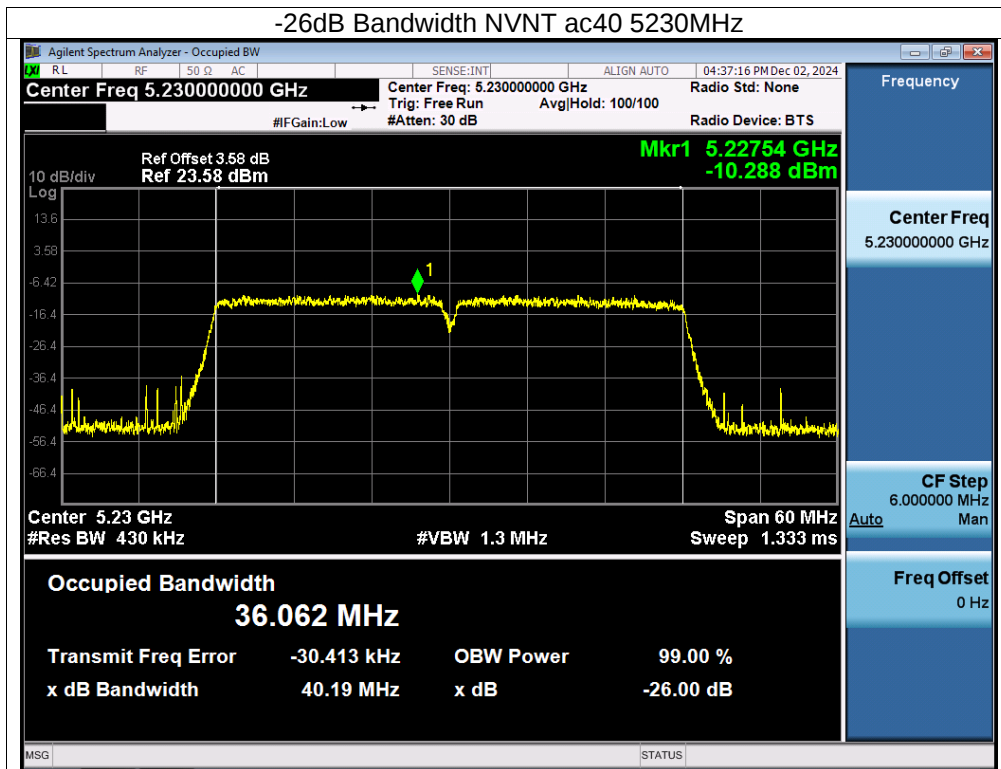


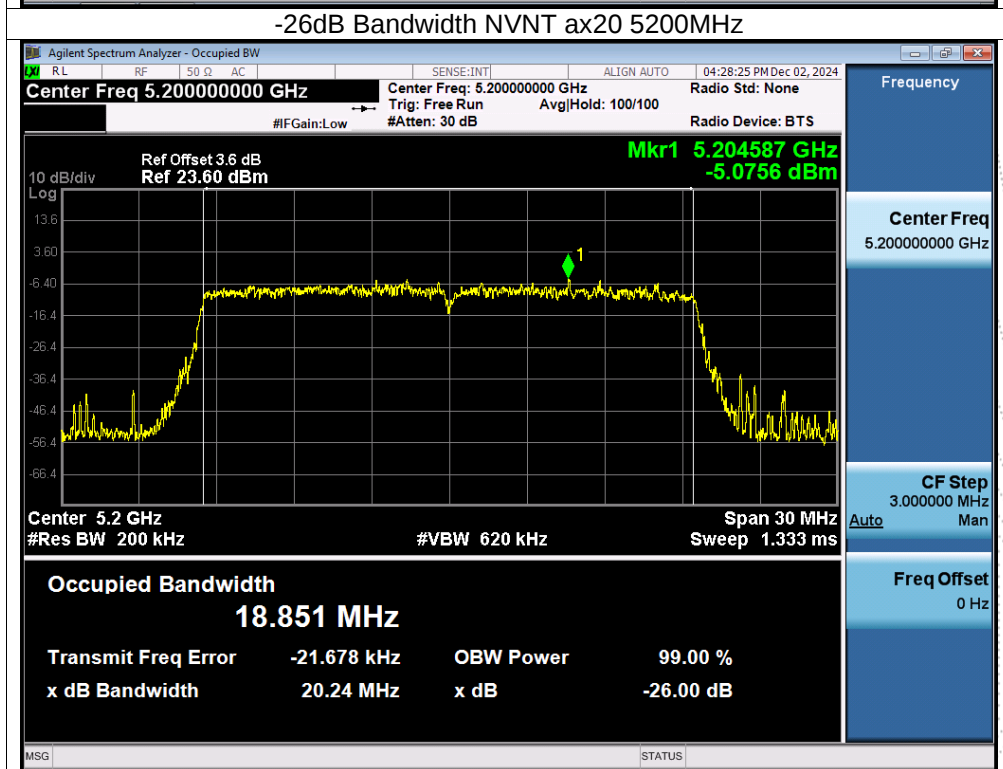
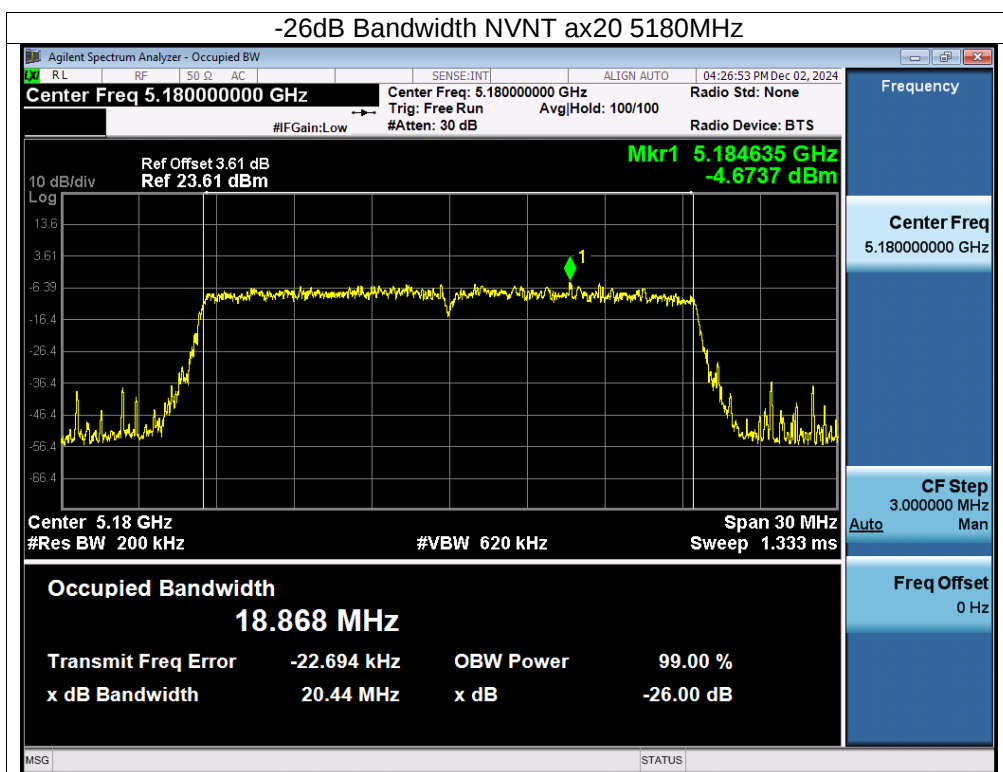


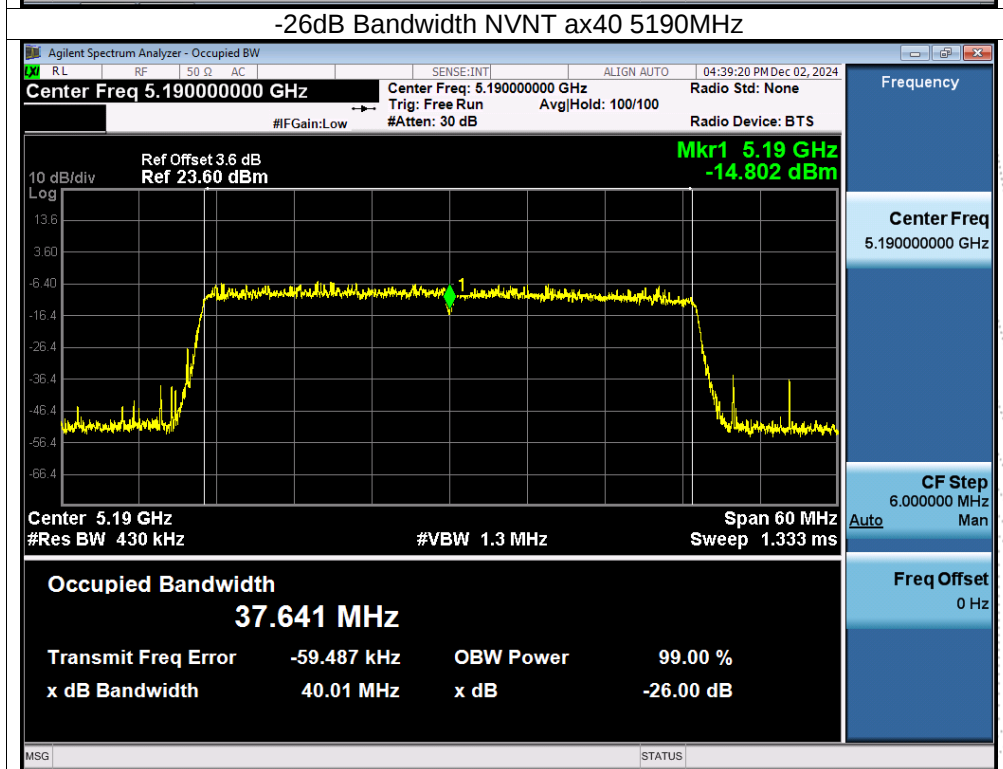
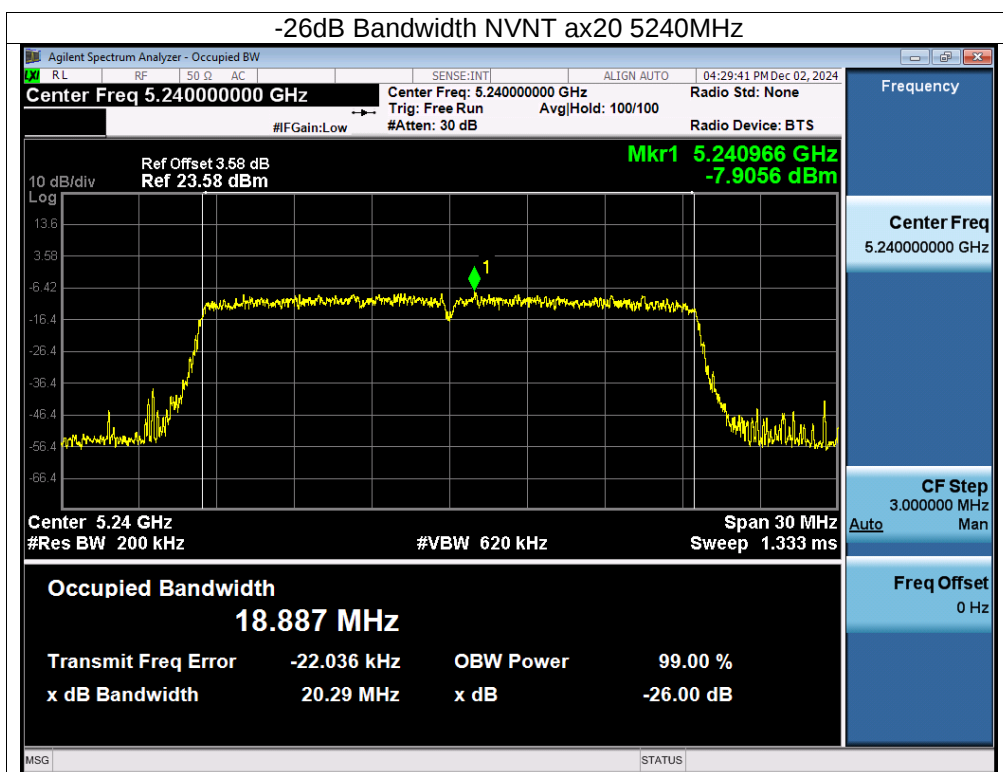


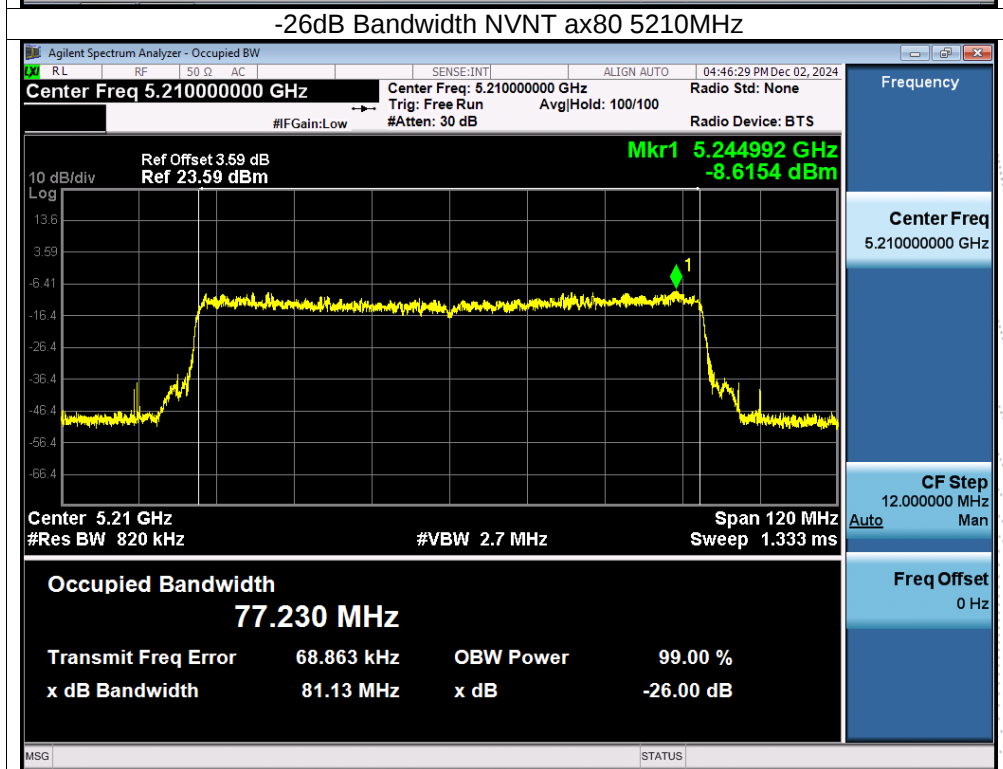
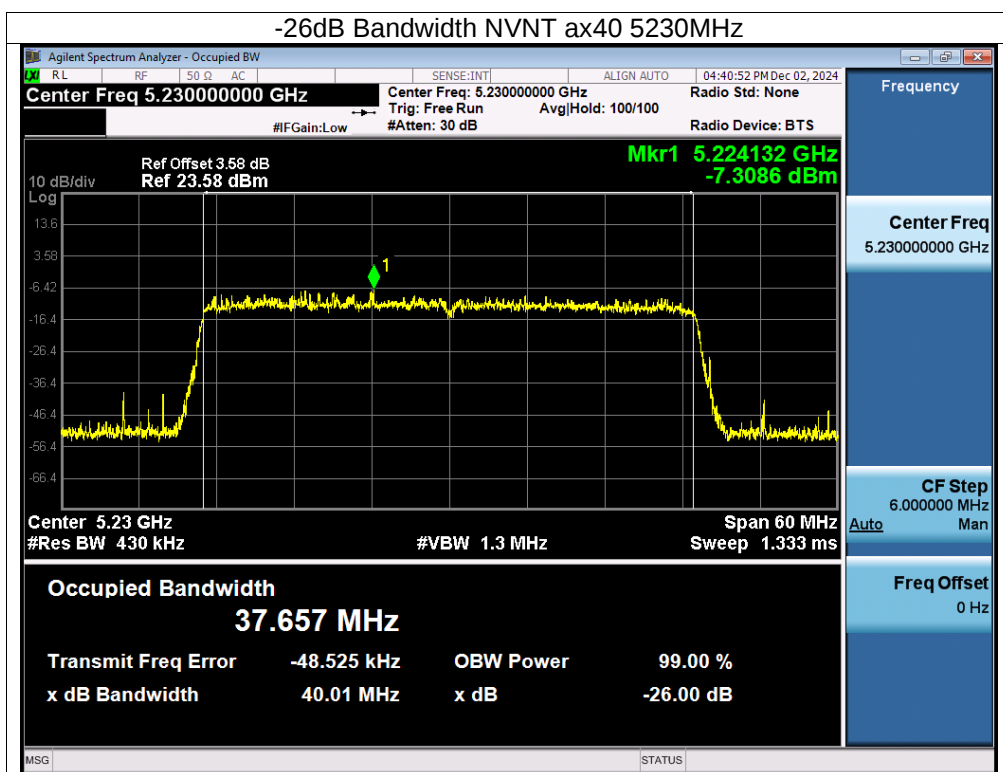




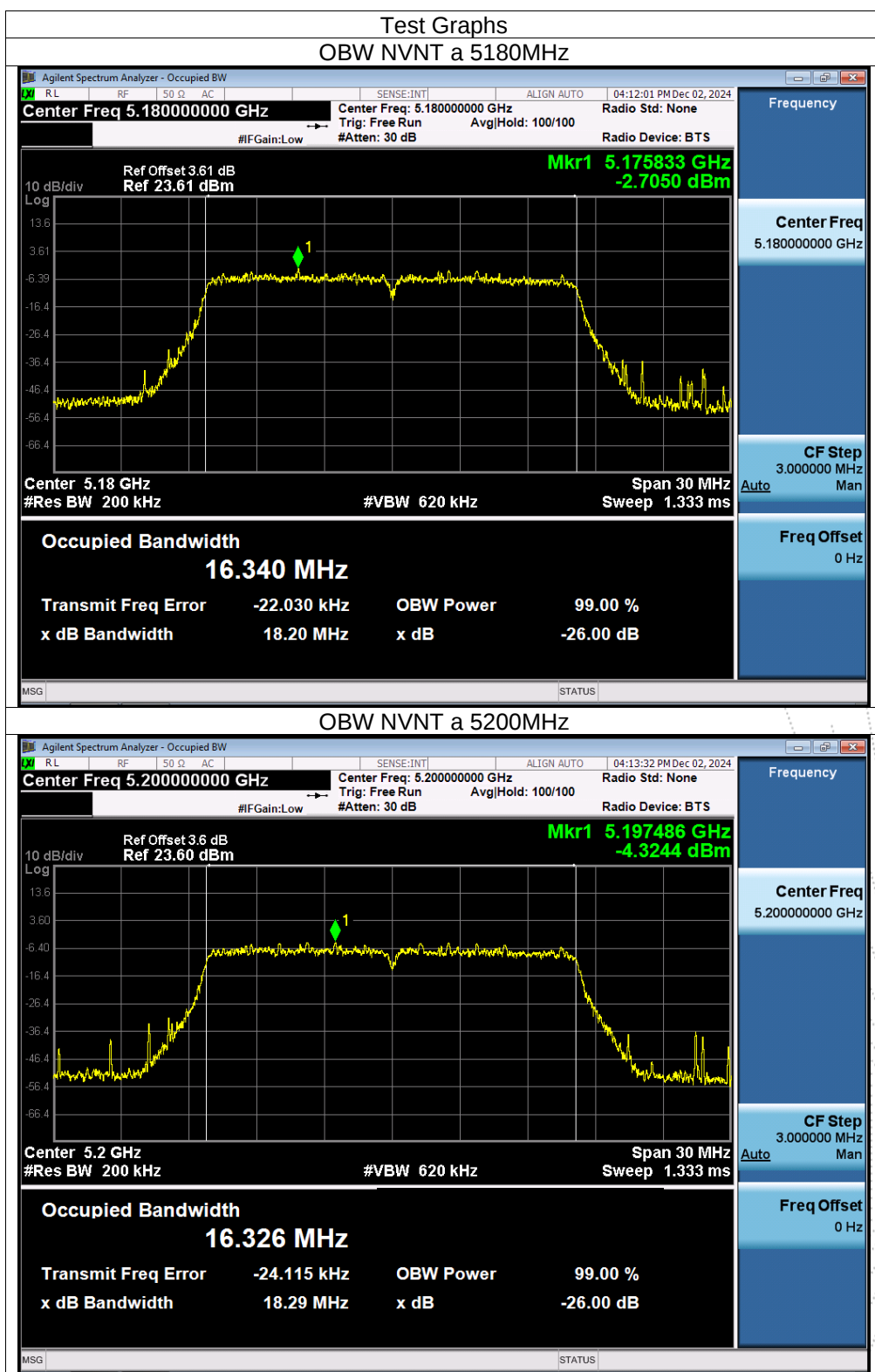


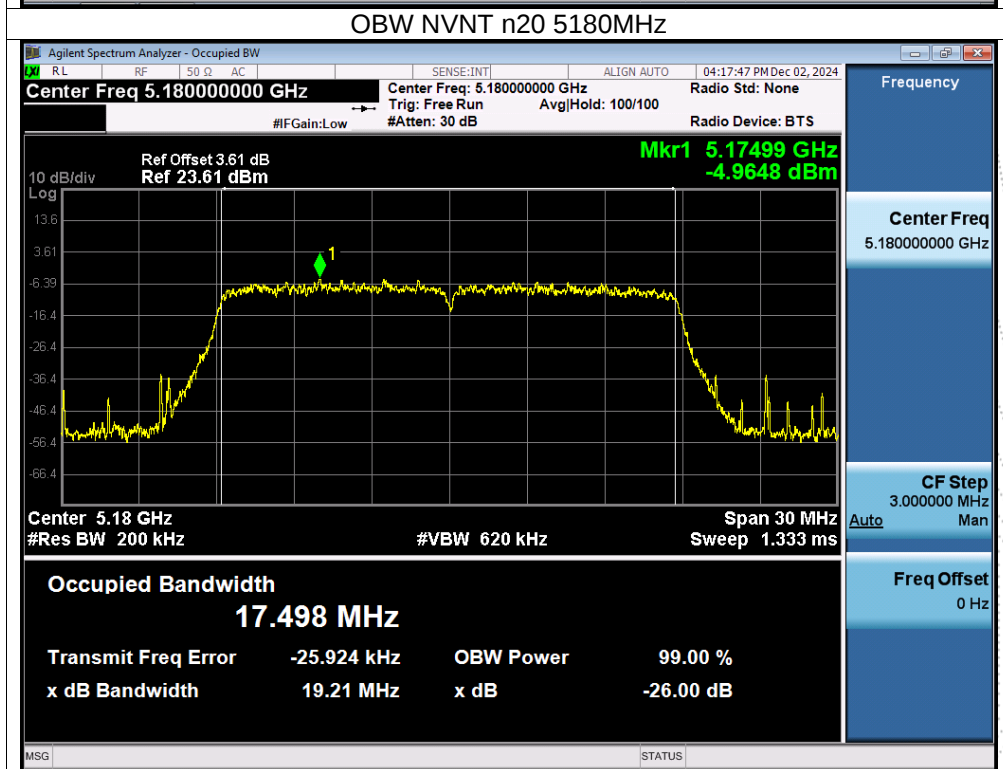
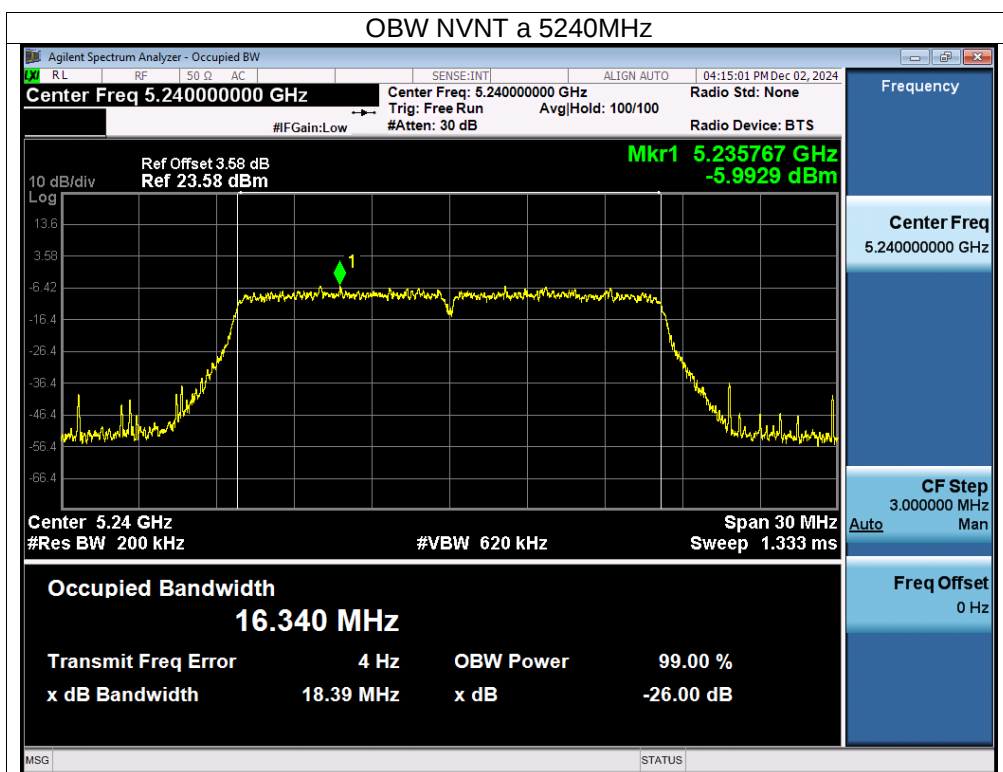


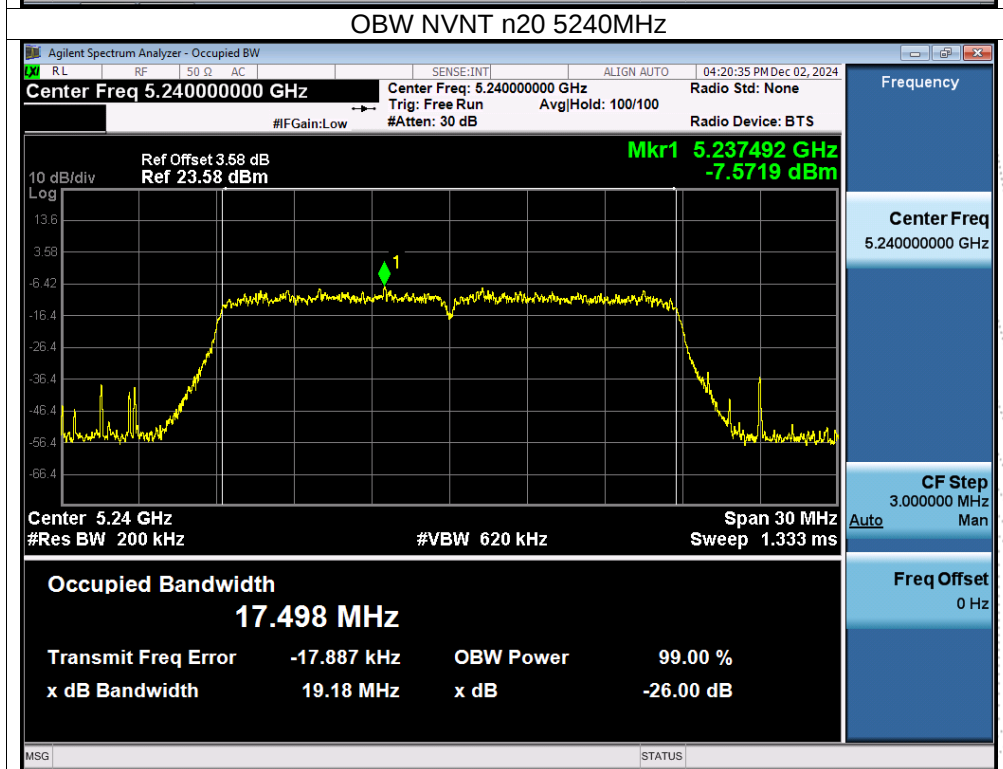
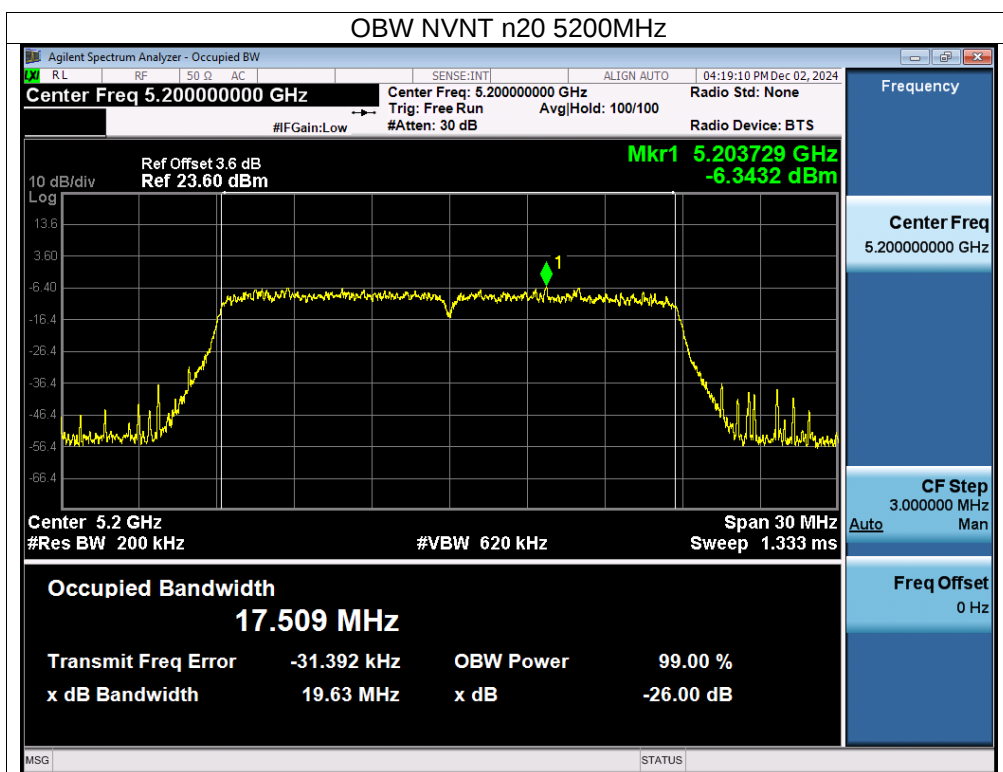


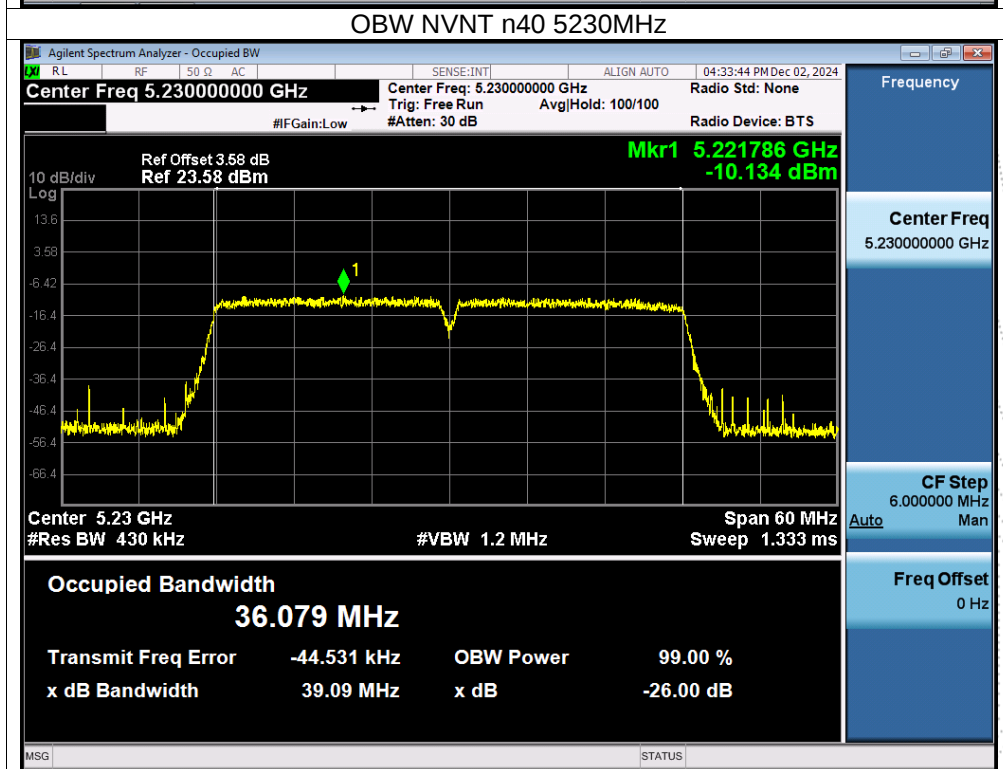
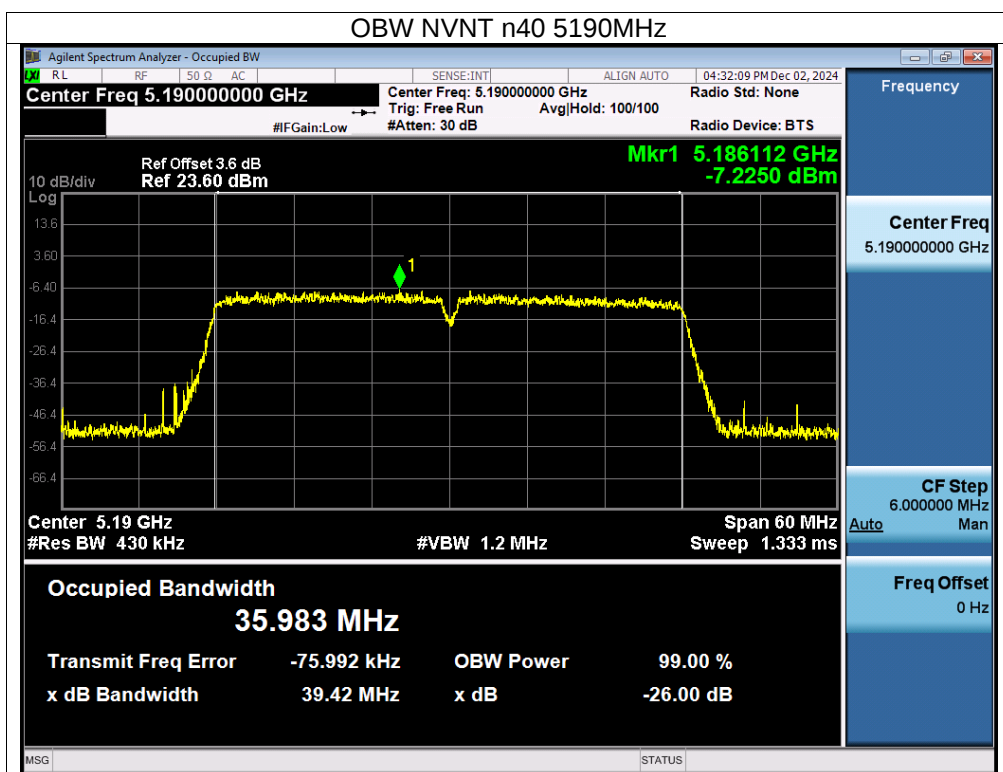


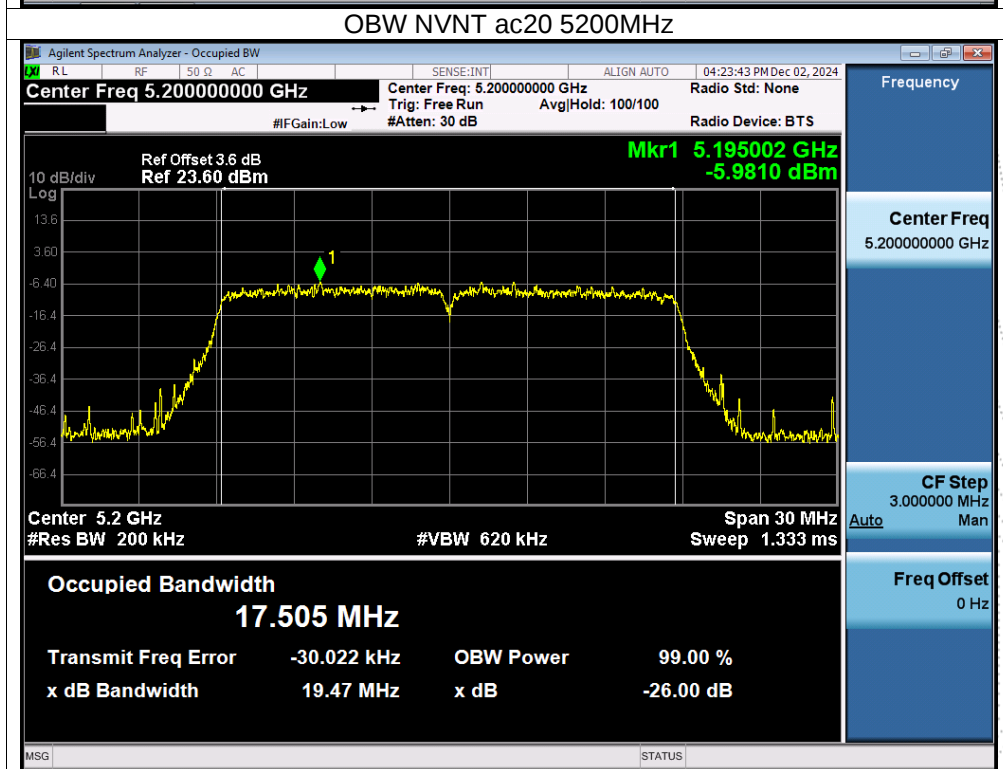
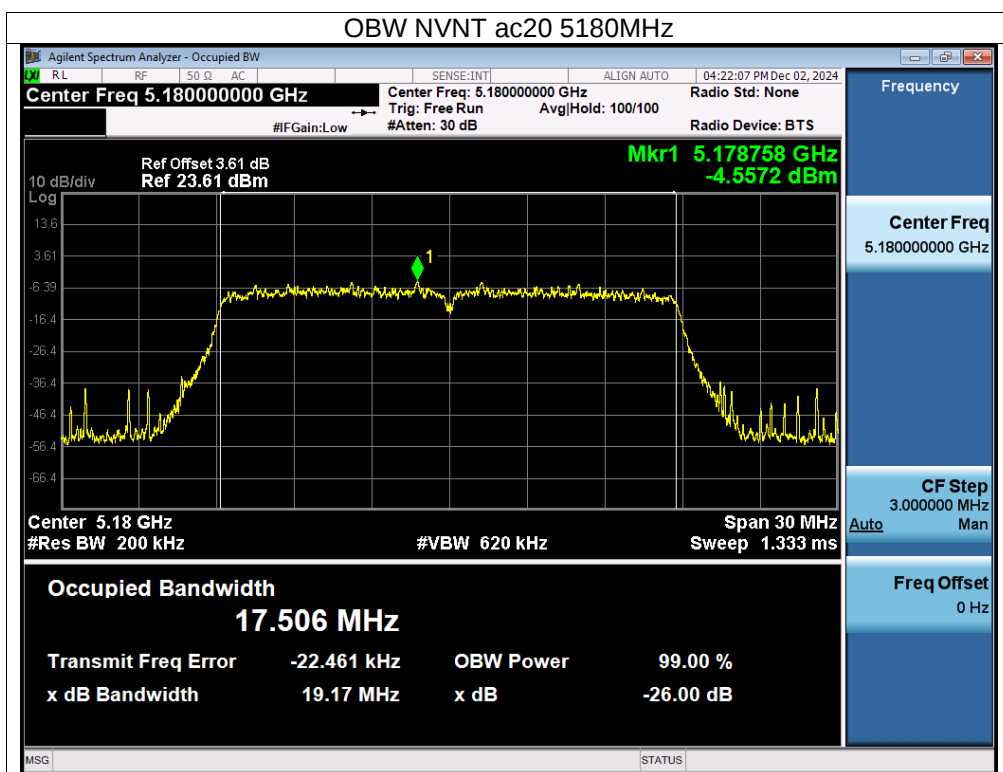
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

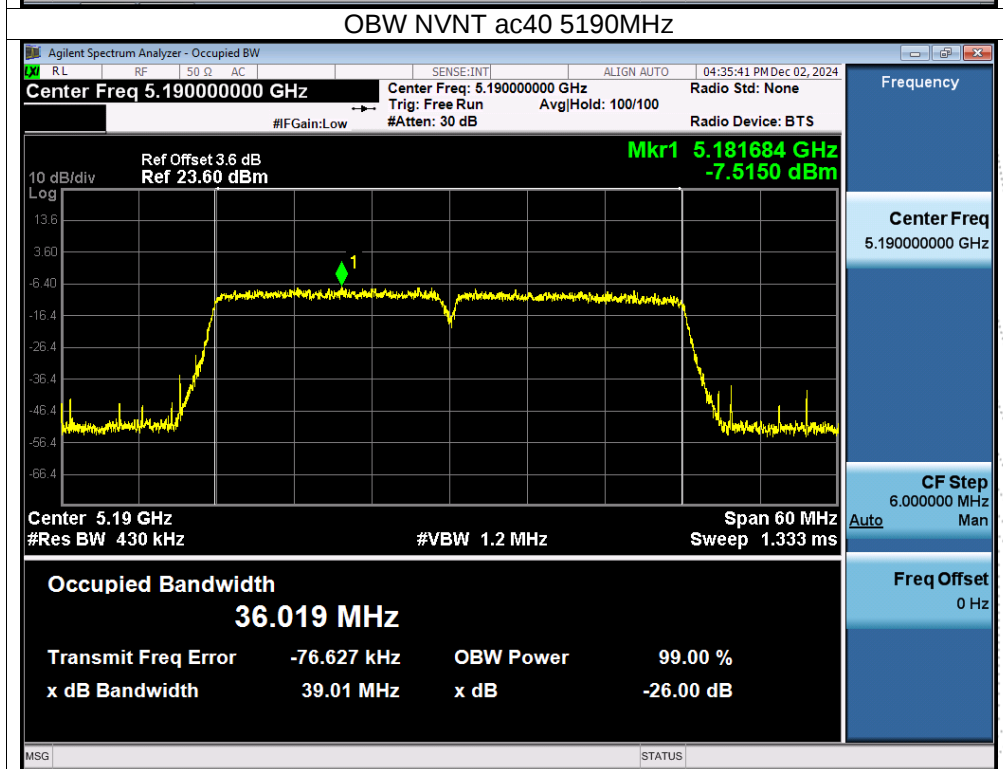
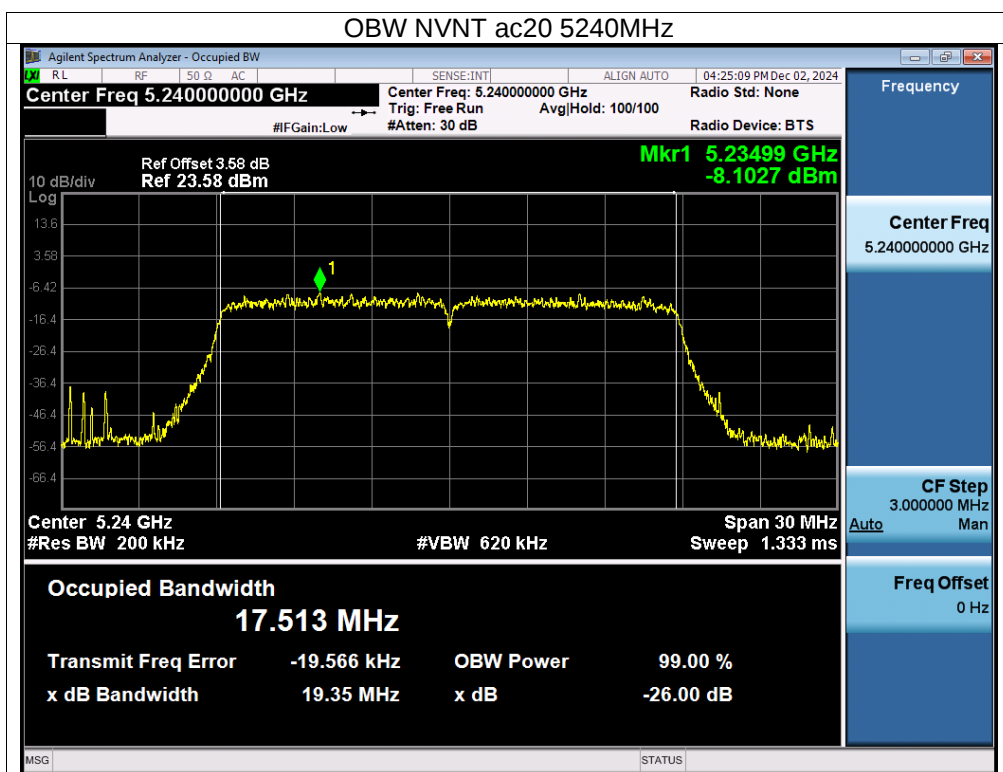


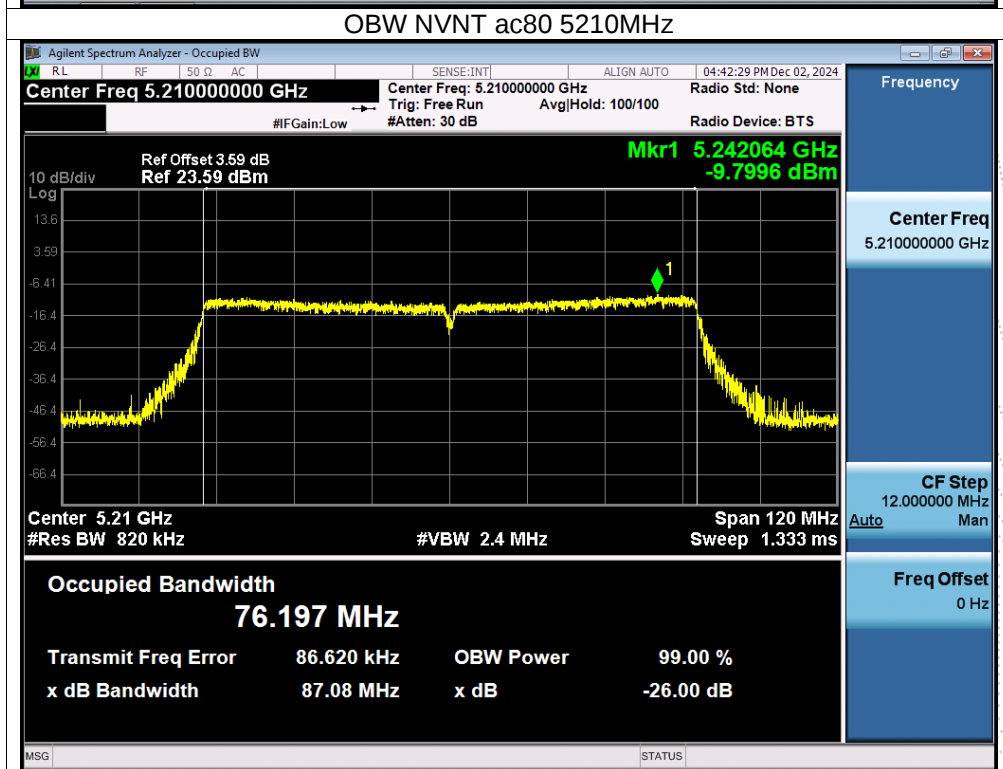
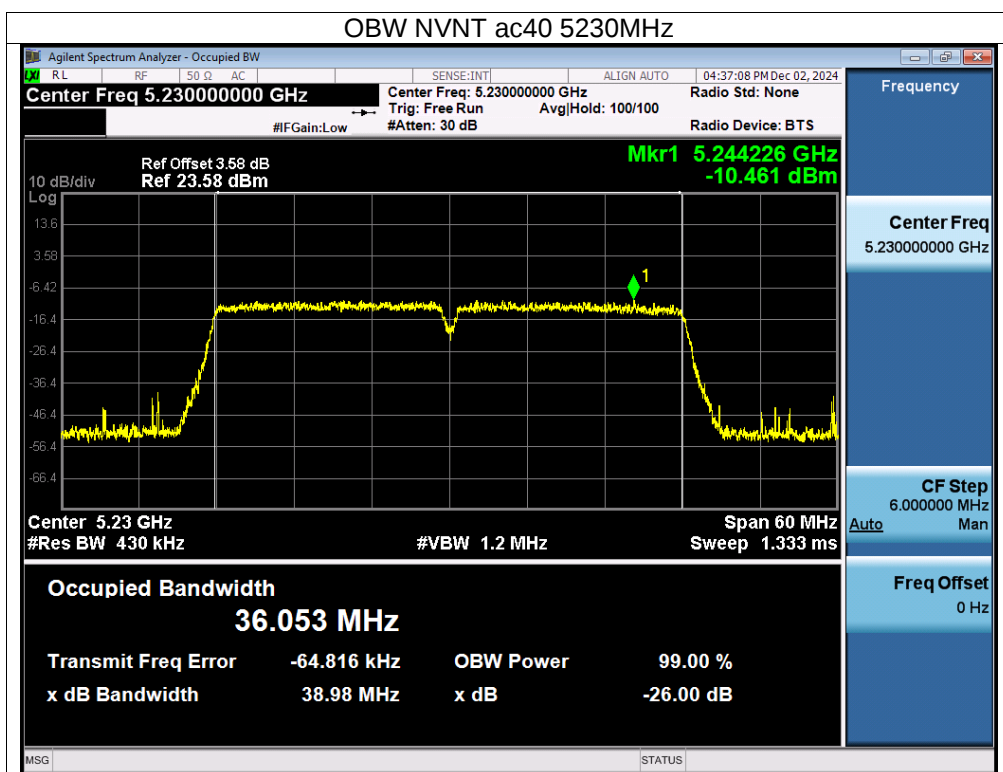


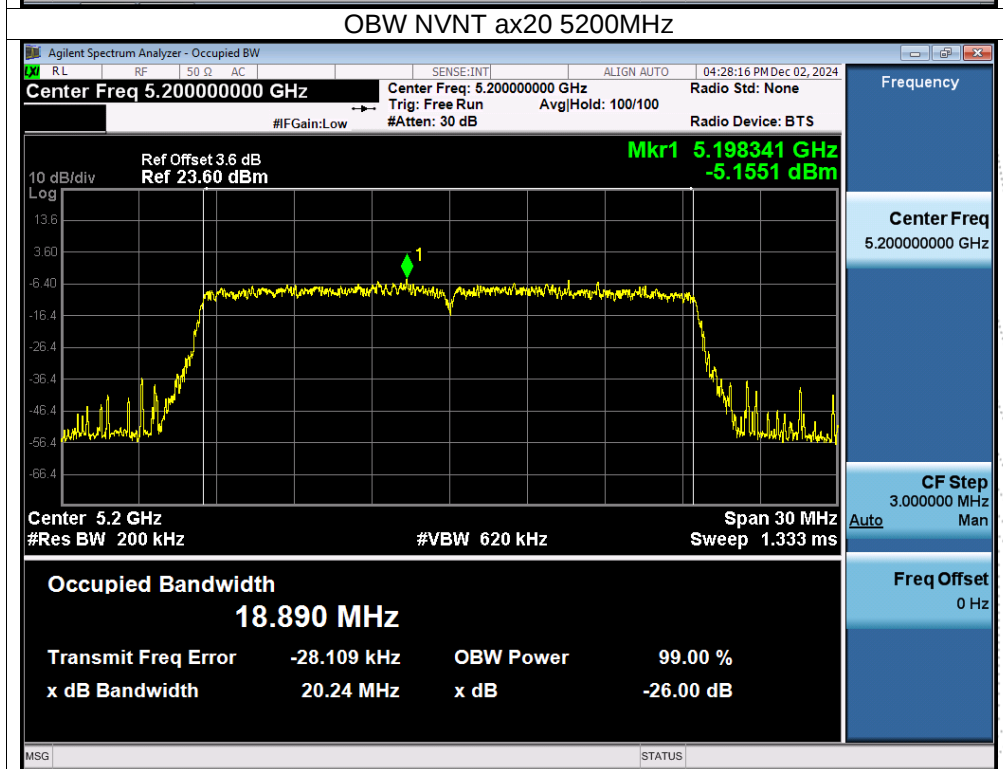
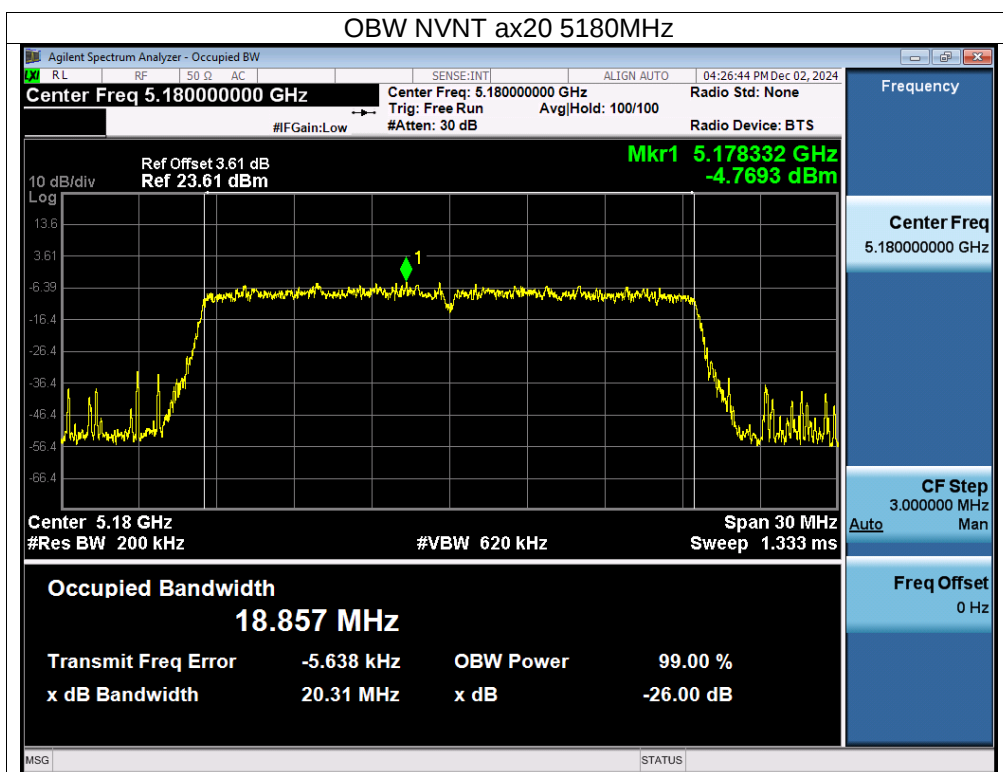


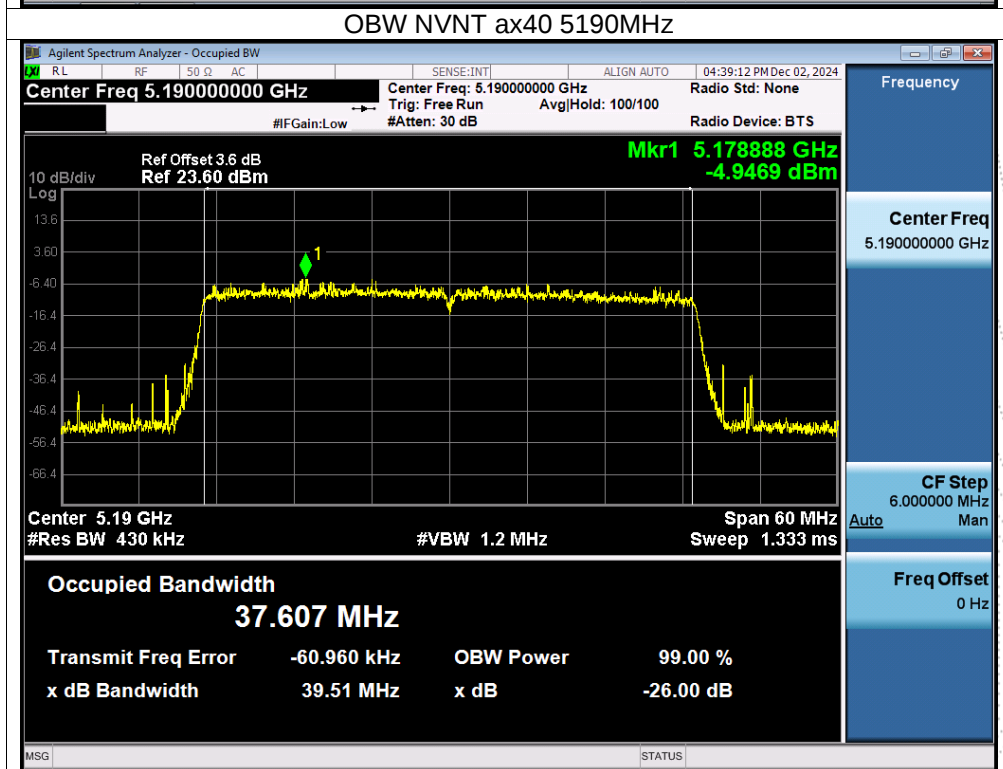
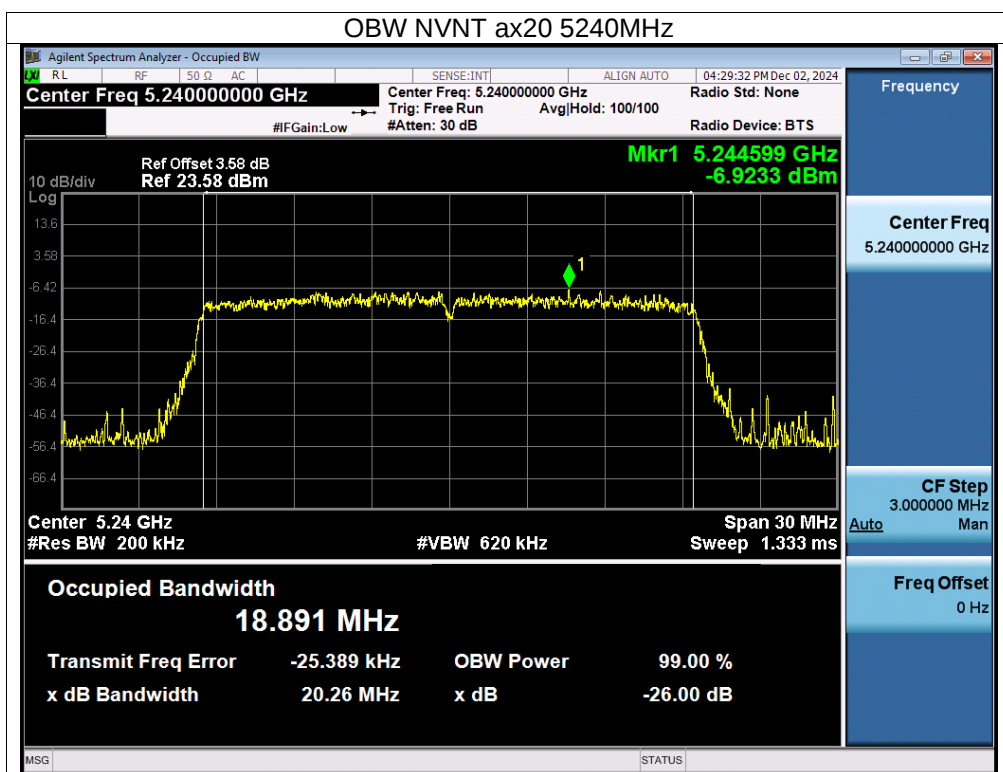


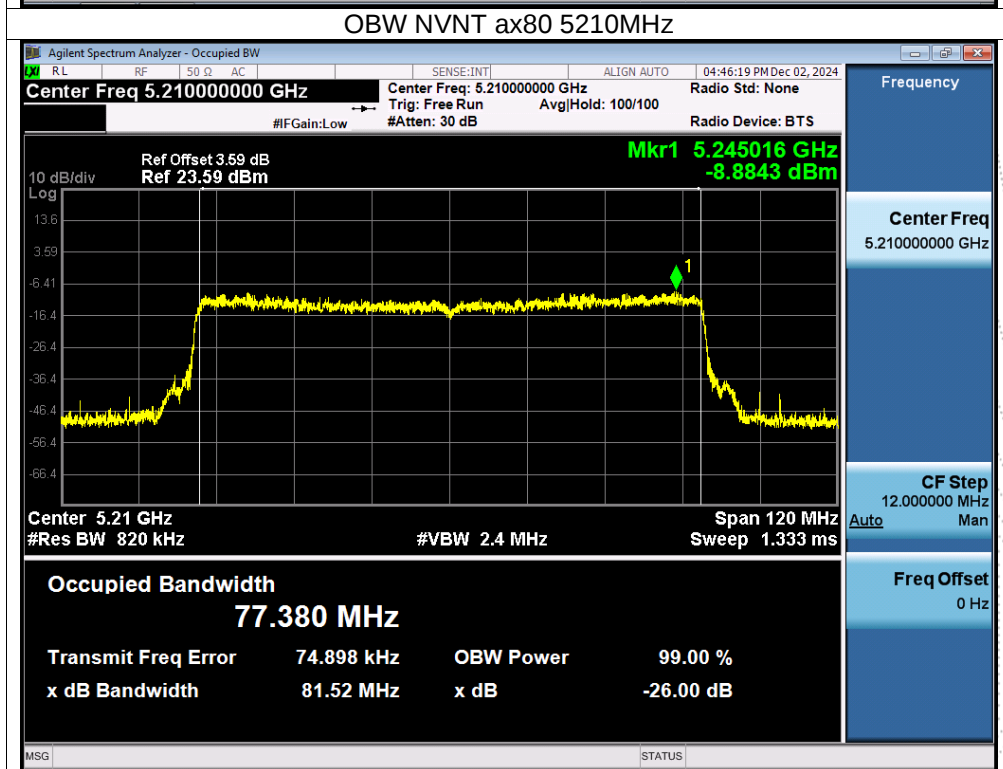
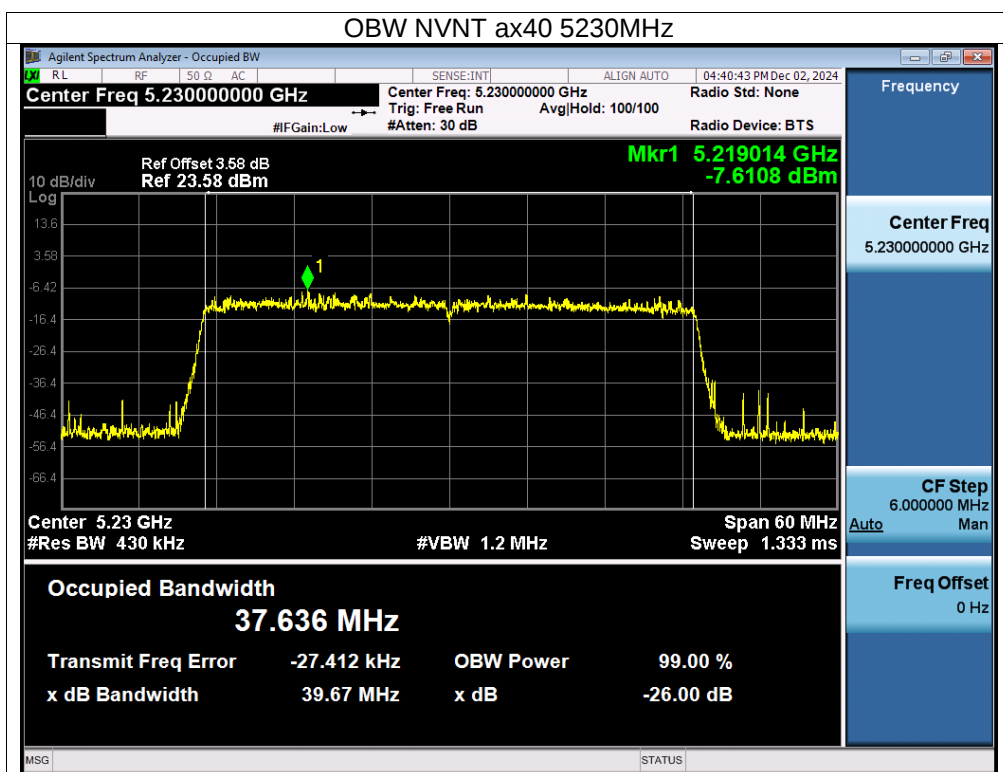








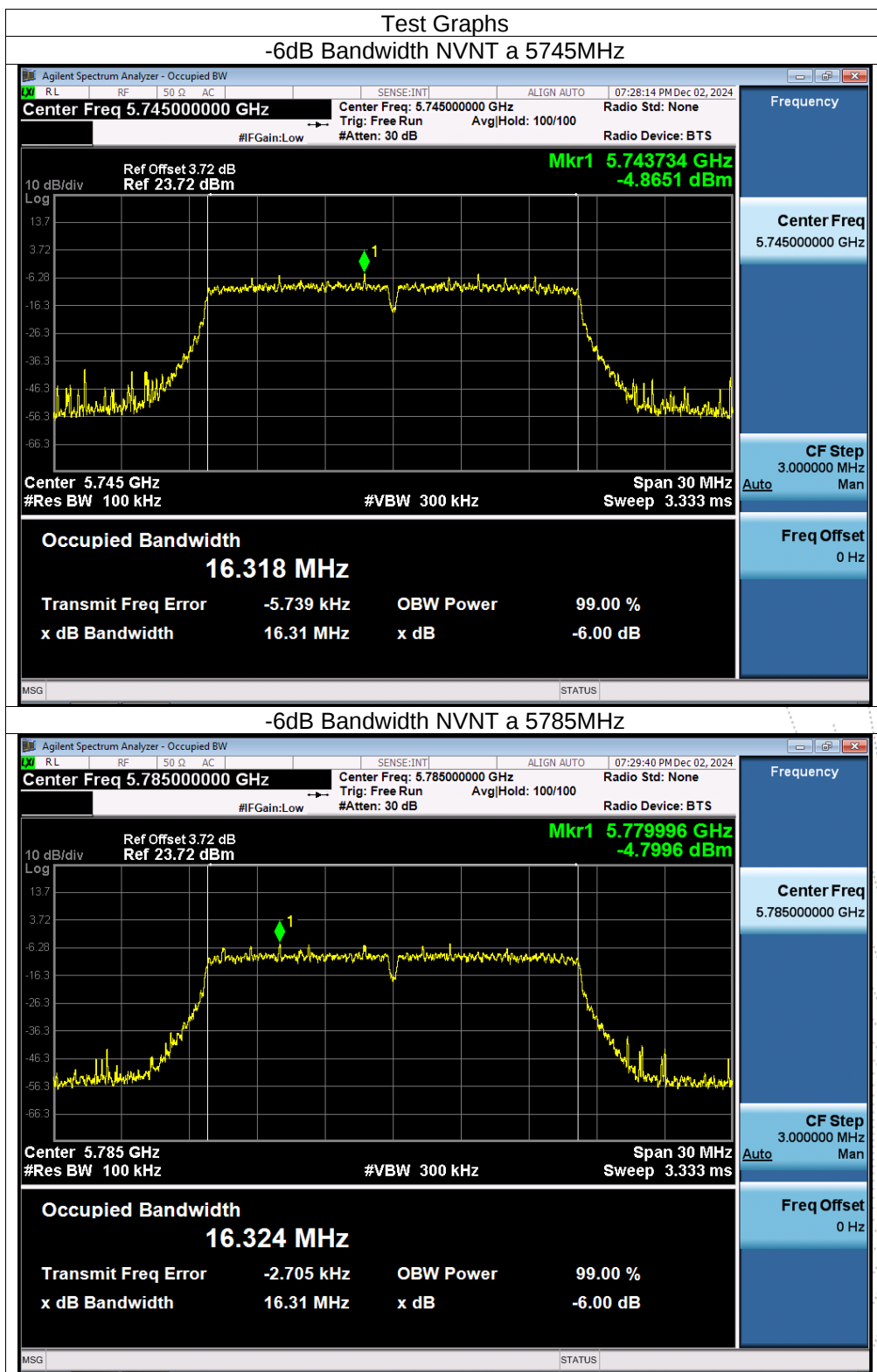


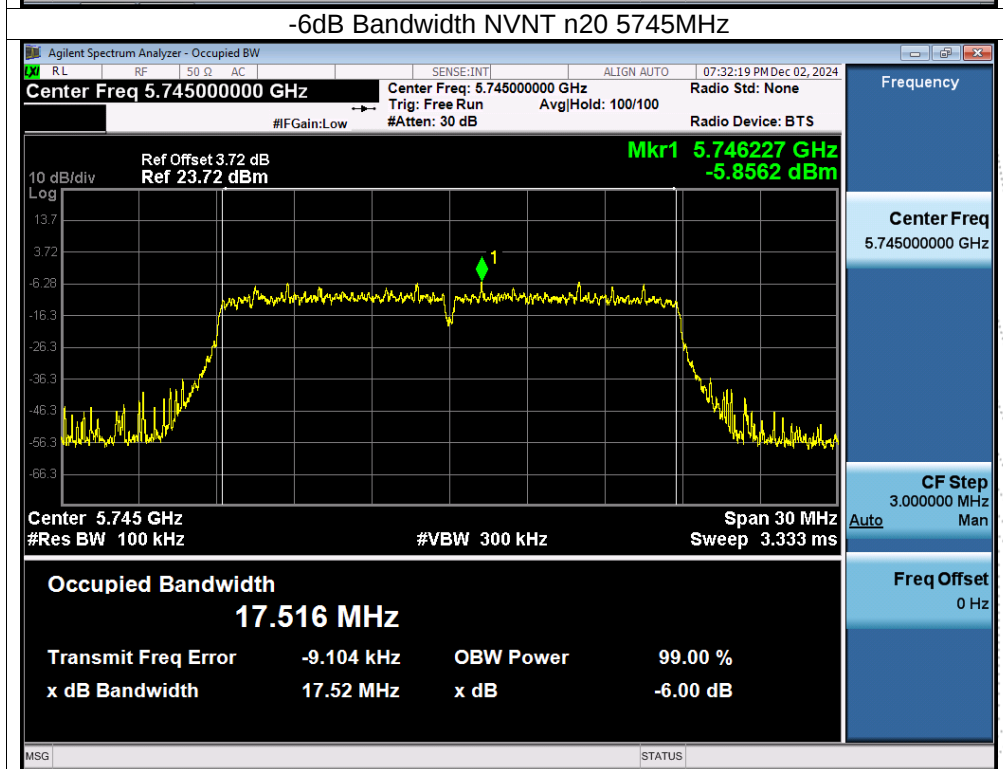
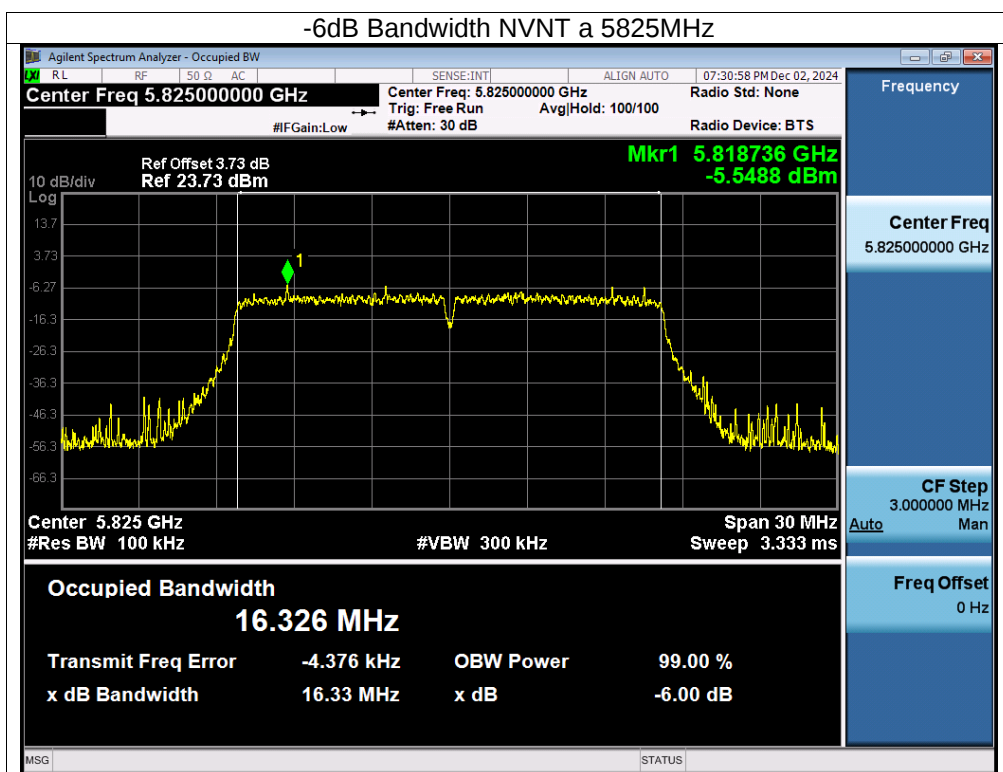


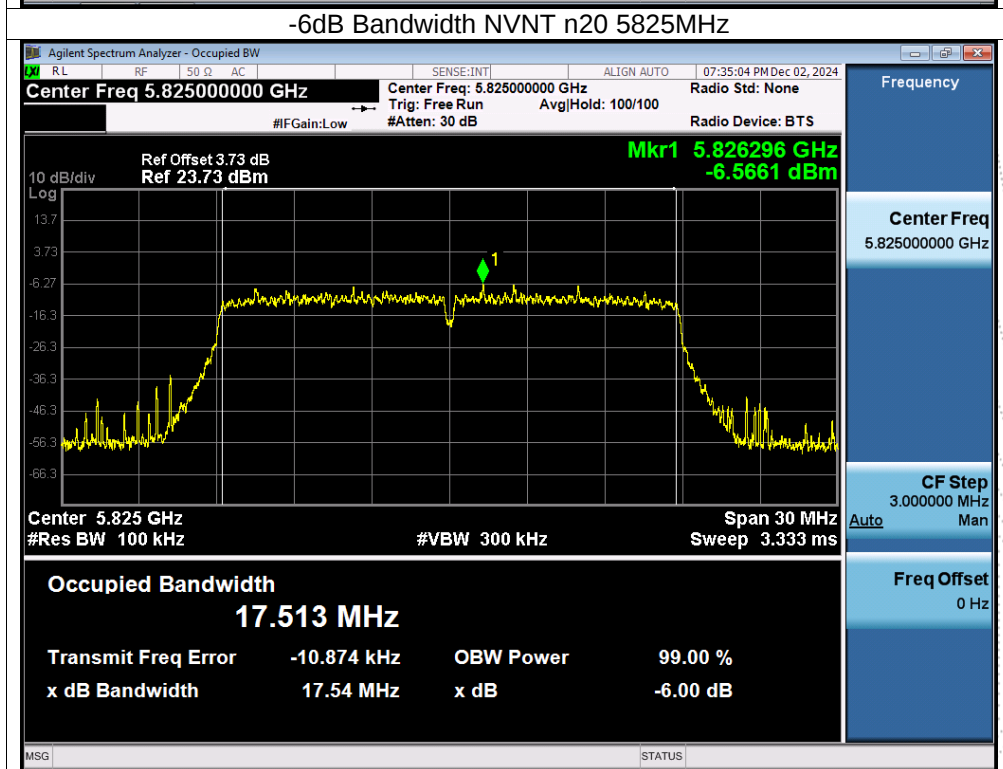
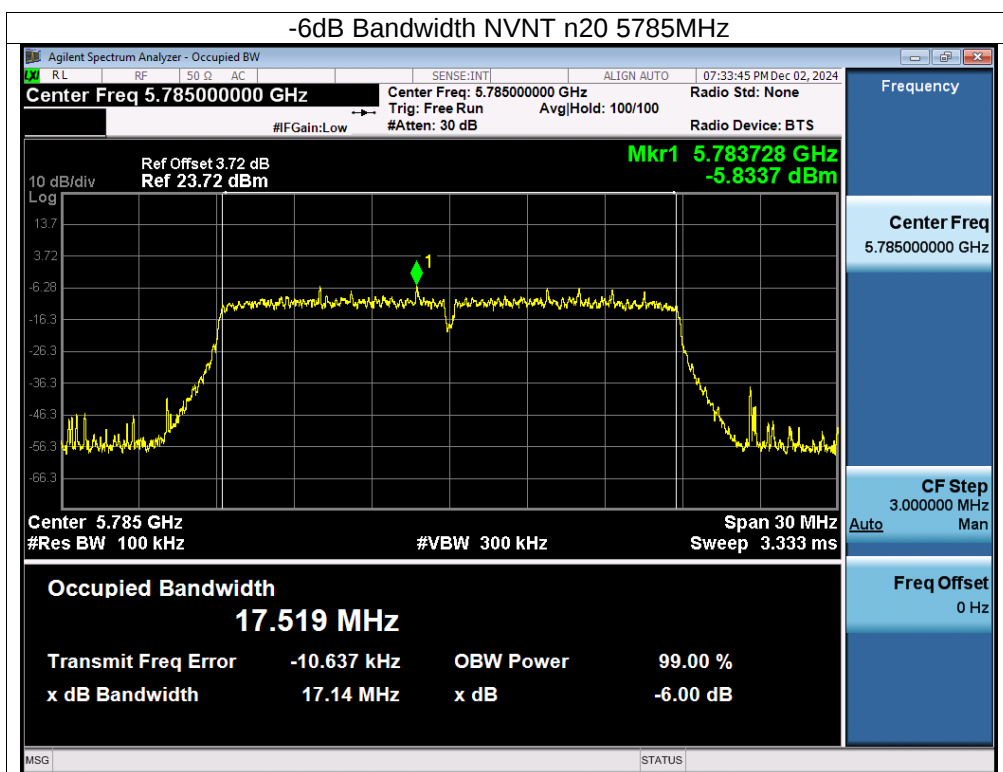
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 12V
Test Mode:	TX Frequency U-NII-3 (5745-5825MHz)		

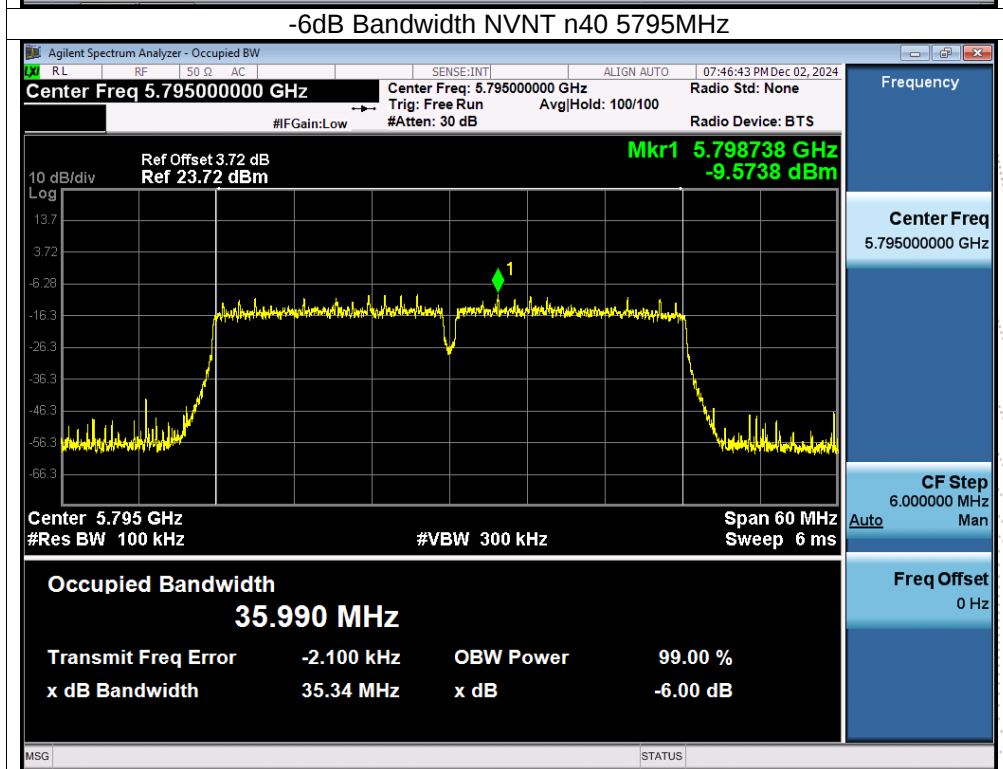
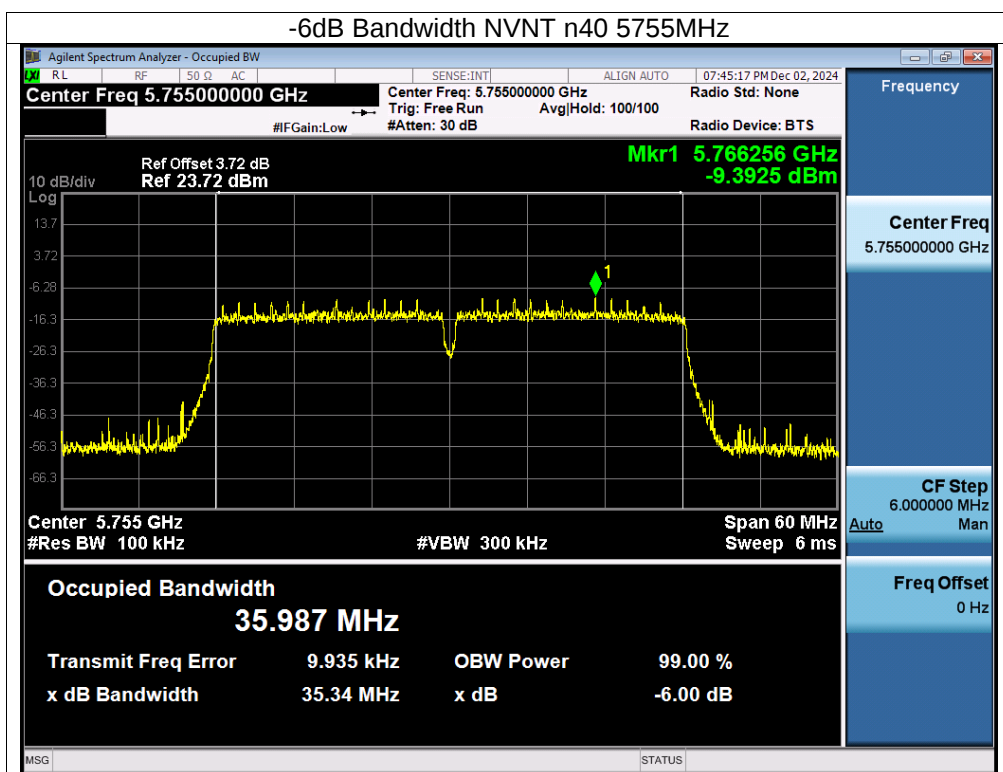
Mode	Channel	Frequency (MHz)	-6dB bandwidth (MHz)		99% OBW (MHz)		Limit -6dB bandwidth MHz	Result
			ANT A	ANT B	ANT A	ANT B		
NVNT	a	5745	16.309	16.311	16.346	16.344	0.5	Pass
NVNT	a	5785	16.326	16.308	16.344	16.343	0.5	Pass
NVNT	a	5825	16.287	16.326	16.325	16.349	0.5	Pass
NVNT	n20	5745	16.869	17.517	17.503	17.504	0.5	Pass
NVNT	n20	5785	17.236	17.141	17.502	17.507	0.5	Pass
NVNT	n20	5825	16.918	17.539	17.486	17.499	0.5	Pass
NVNT	n40	5755	35.523	35.341	35.986	36.032	0.5	Pass
NVNT	n40	5795	35.16	35.343	36.005	36.022	0.5	Pass
NVNT	ac20	5745	16.902	17.537	17.509	17.505	0.5	Pass
NVNT	ac20	5785	16.978	17.288	17.525	17.522	0.5	Pass
NVNT	ac20	5825	17.123	17.025	17.5	17.501	0.5	Pass
NVNT	ac40	5755	35.395	35.782	36.044	36.048	0.5	Pass
NVNT	ac40	5795	35.527	35.538	36.046	36.062	0.5	Pass
NVNT	ac80	5775	75.158	75.145	75.543	75.571	0.5	Pass
NVNT	ax20	5745	17.65	17.496	18.874	18.878	0.5	Pass
NVNT	ax20	5785	18.09	18.622	18.889	18.895	0.5	Pass
NVNT	ax20	5825	18.069	18.293	18.887	18.891	0.5	Pass
NVNT	ax40	5755	37.559	37.06	37.64	37.632	0.5	Pass
NVNT	ax40	5795	37.548	37.254	37.638	37.631	0.5	Pass
NVNT	ax80	5775	75.323	76.32	76.739	76.701	0.5	Pass

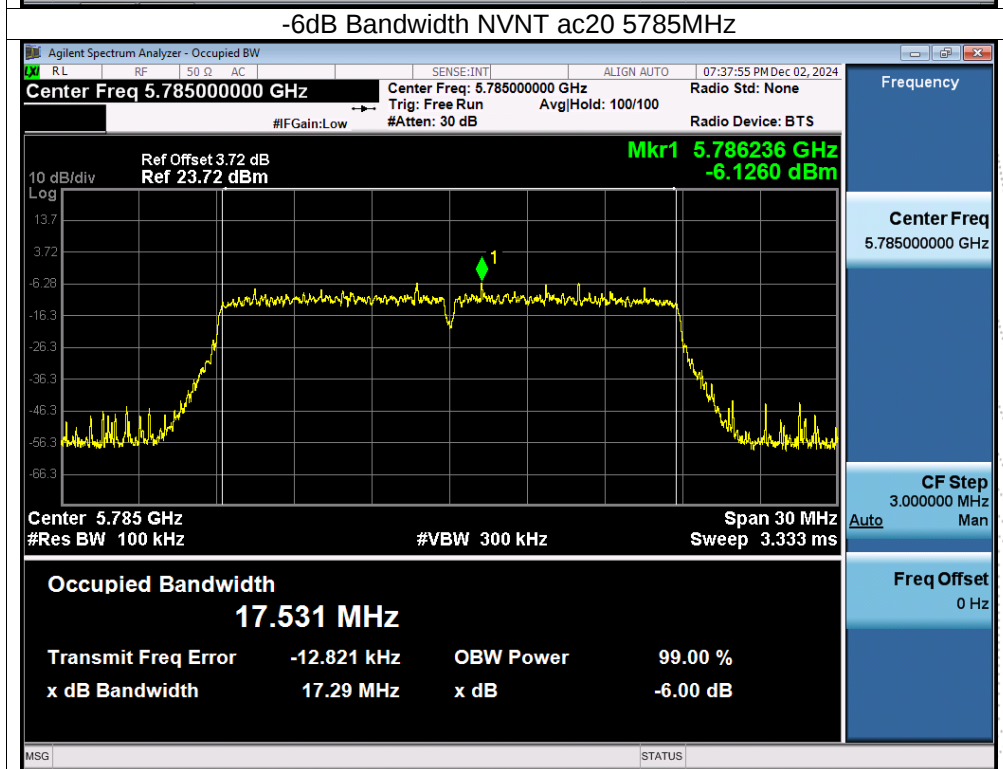
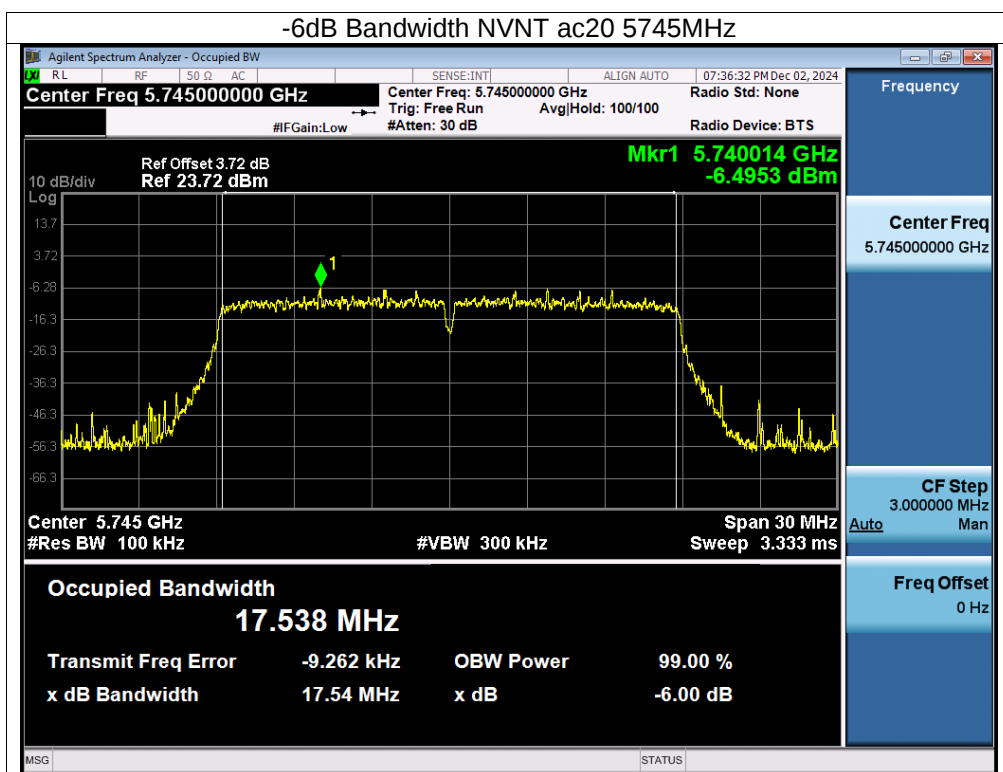
Note: A(B) Represent the value of antenna A and B. The worst data is Antenna B, only shown Antenna B Plot.

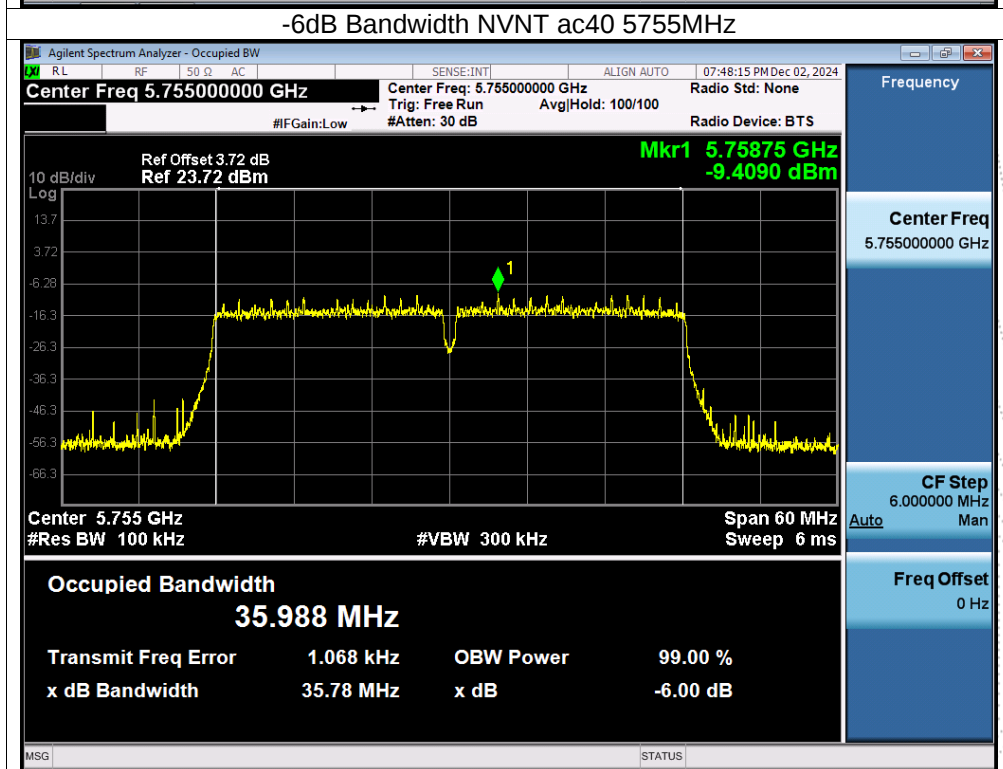
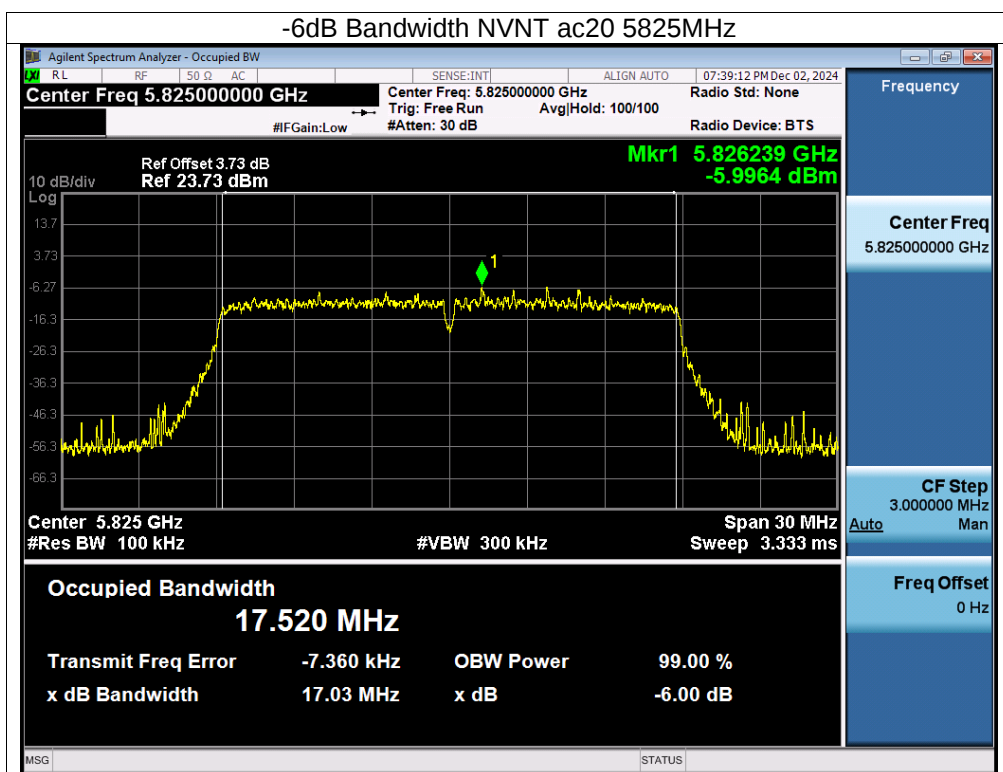


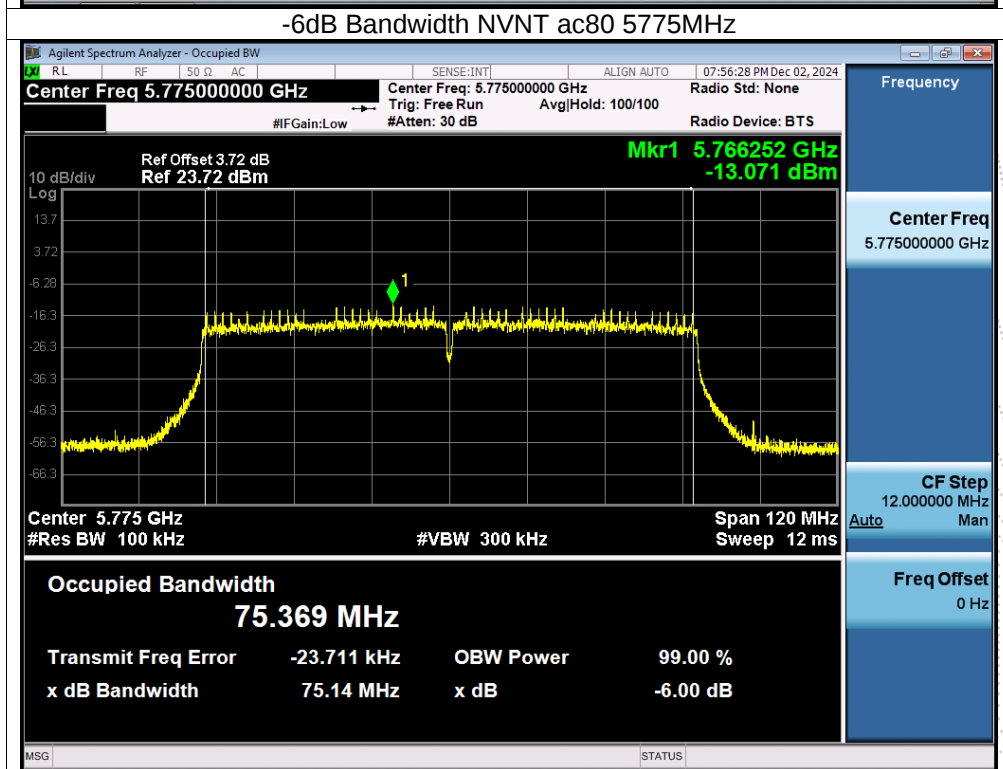
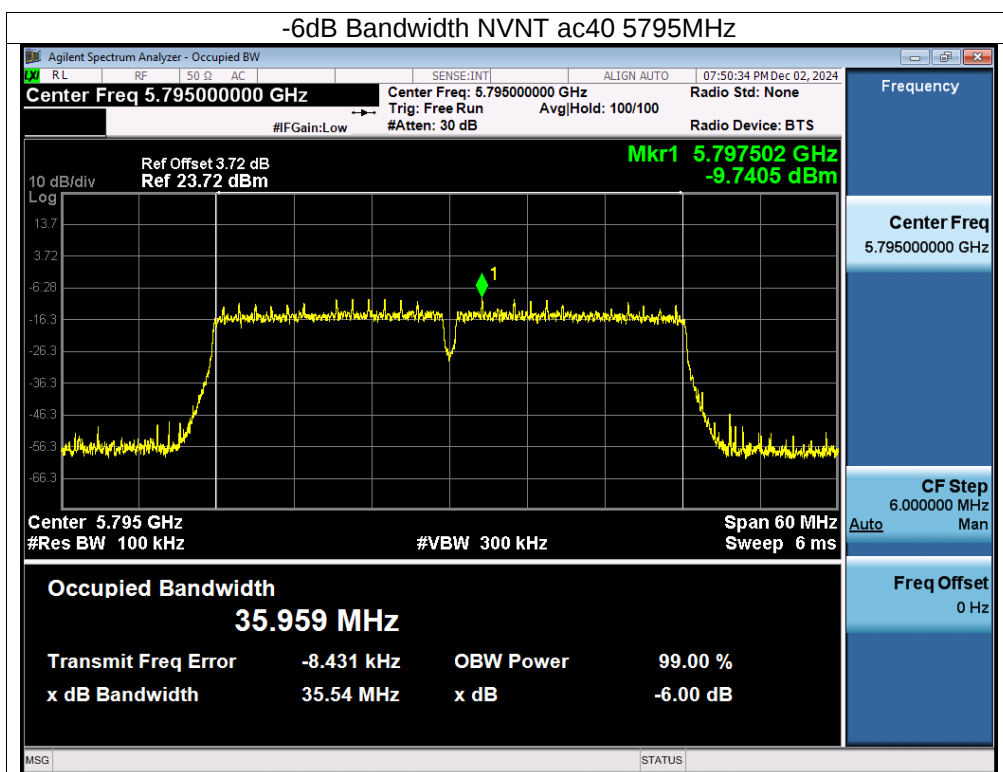


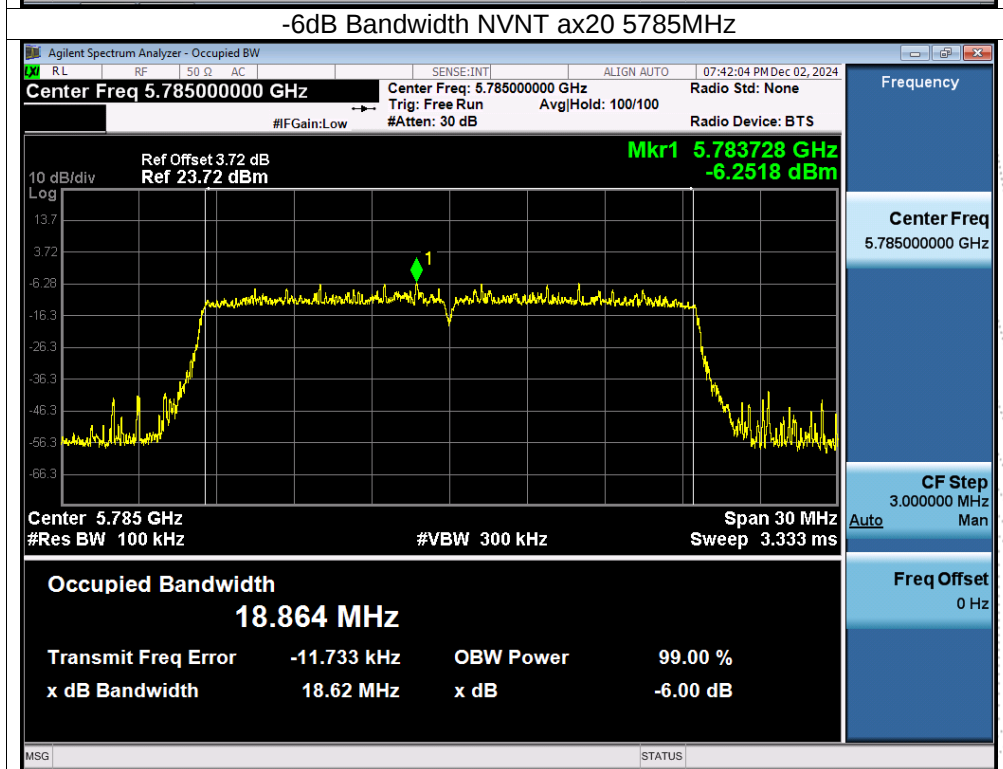
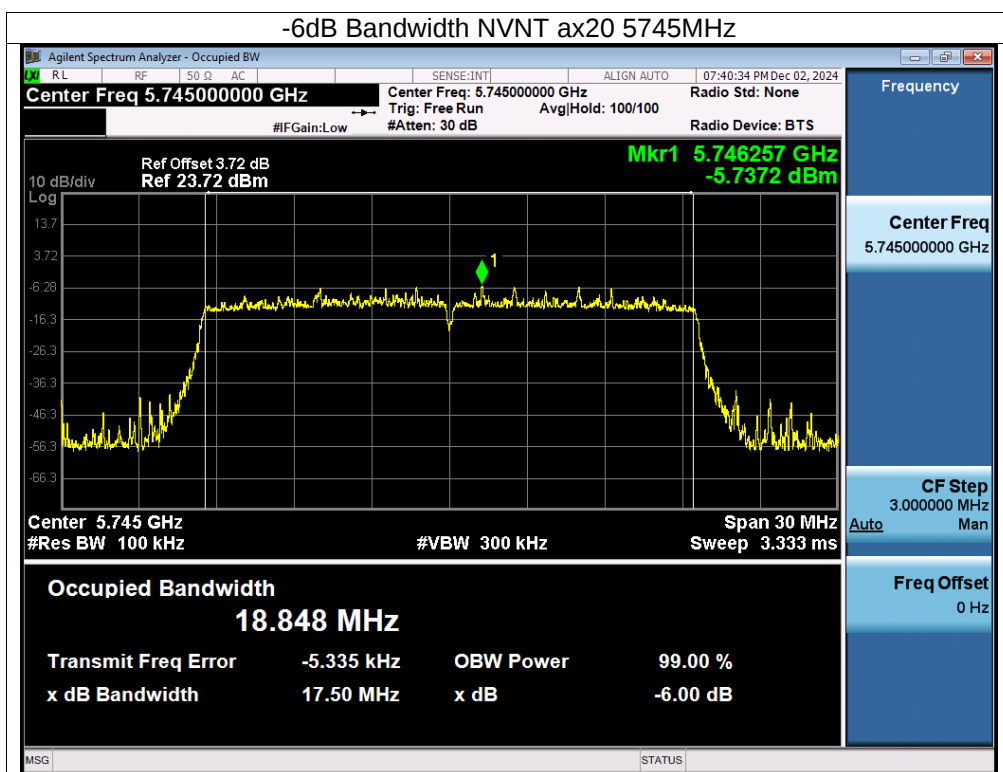


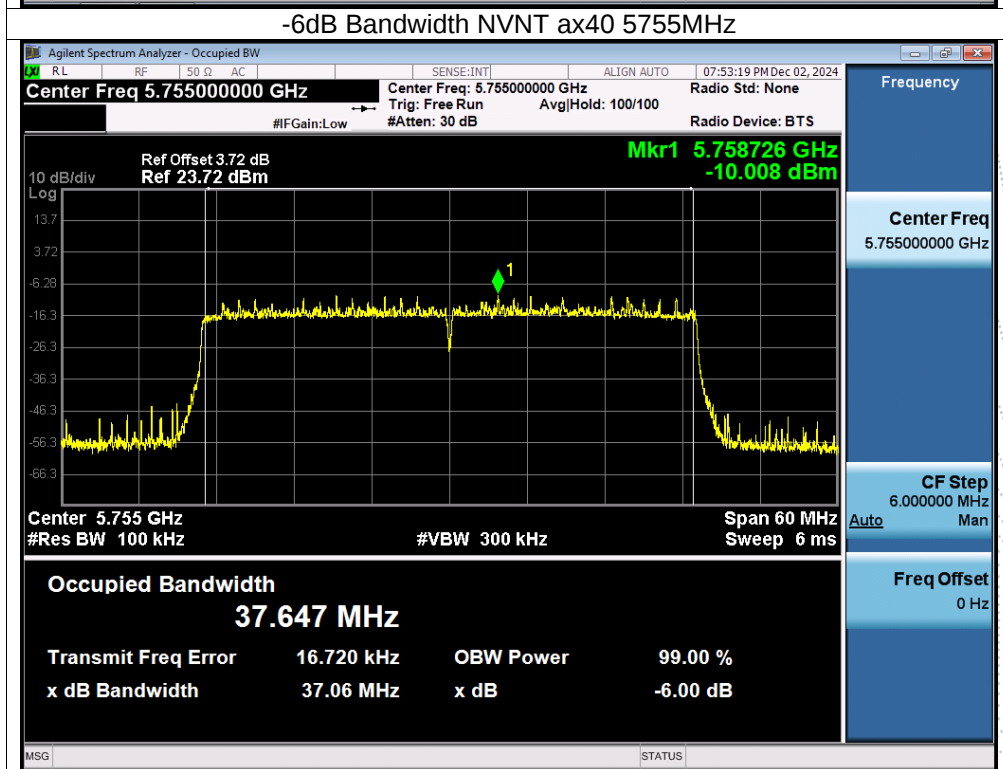
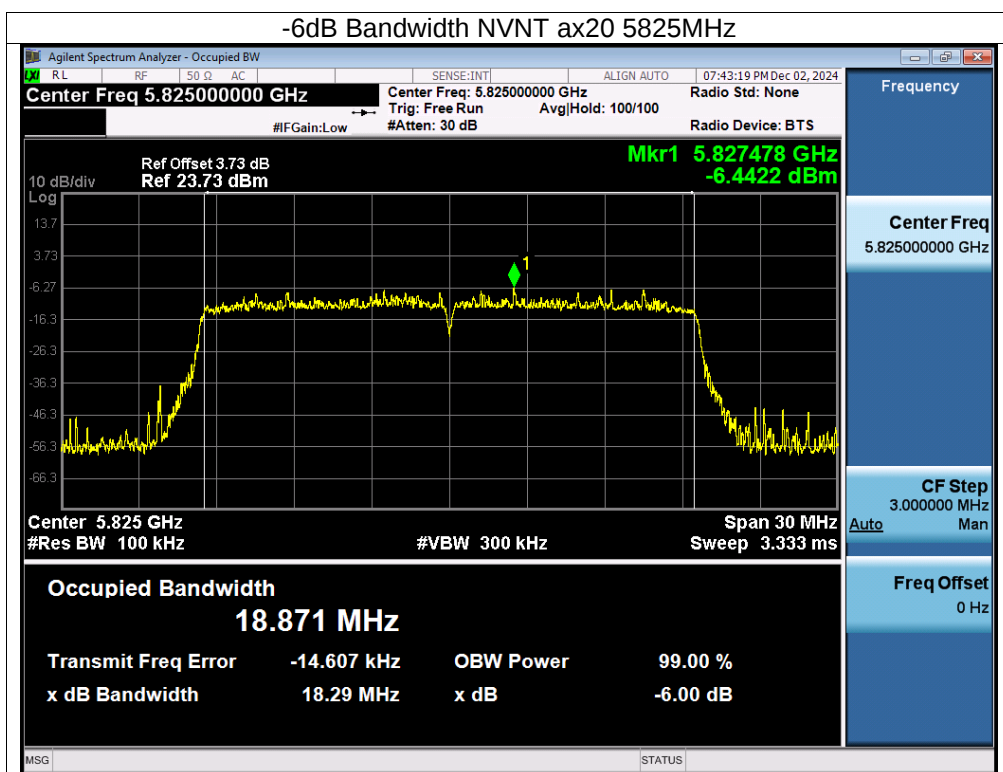


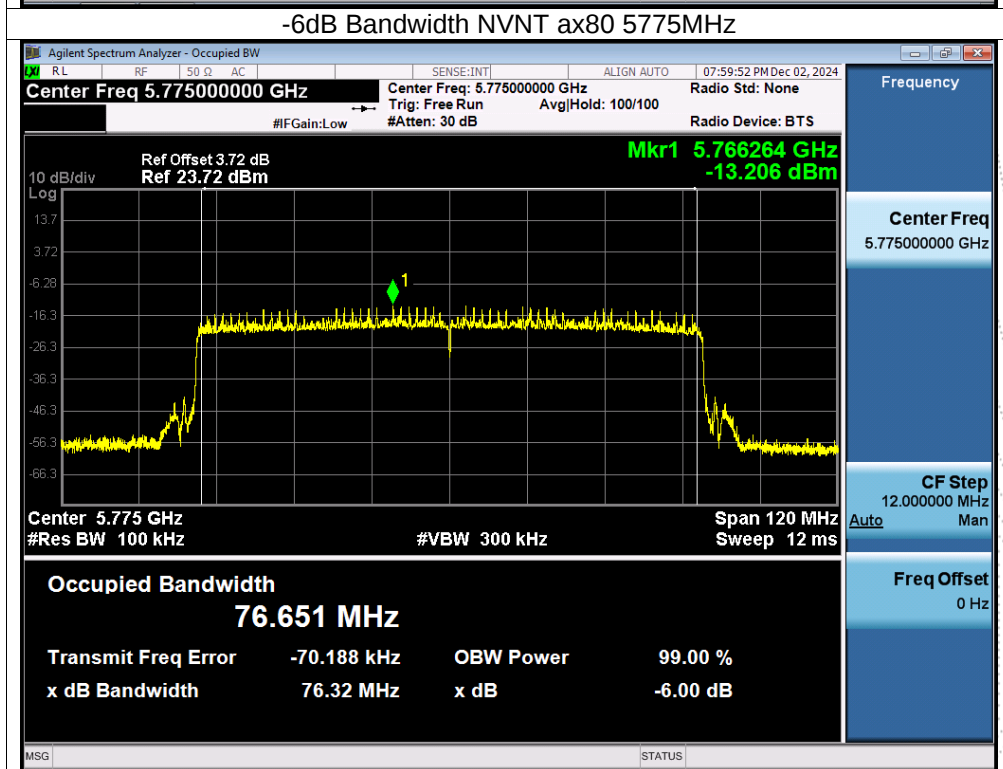
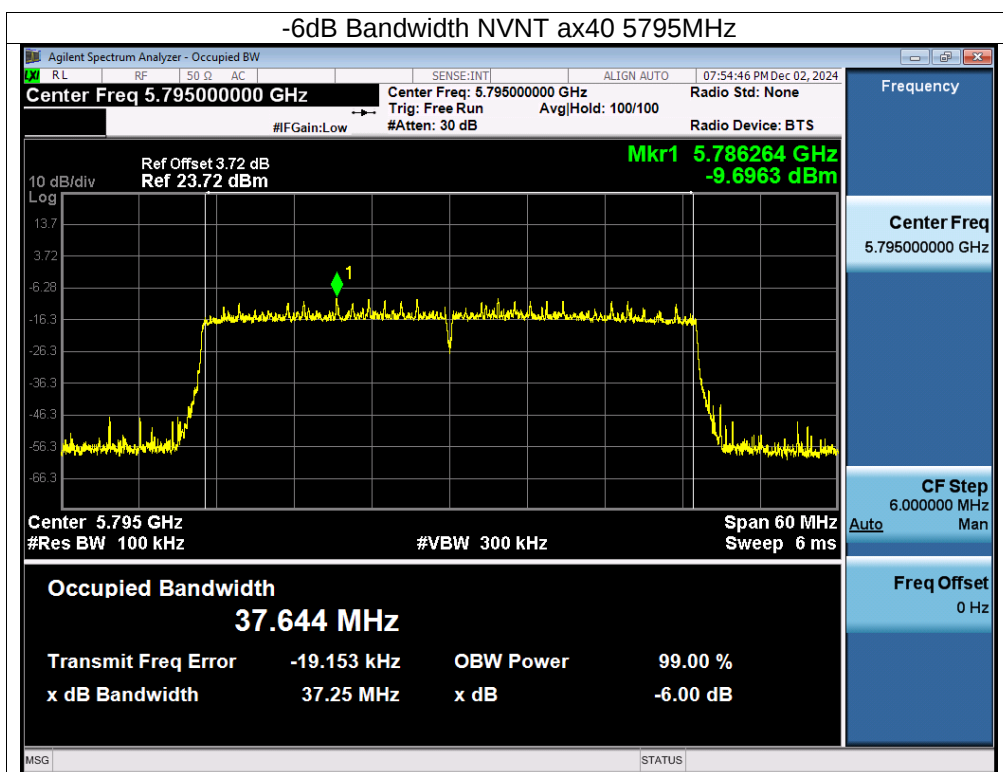












Note: A(B) Represent the value of antenna A and B. The worst data is Antenna A, only shown Antenna A Plot.

