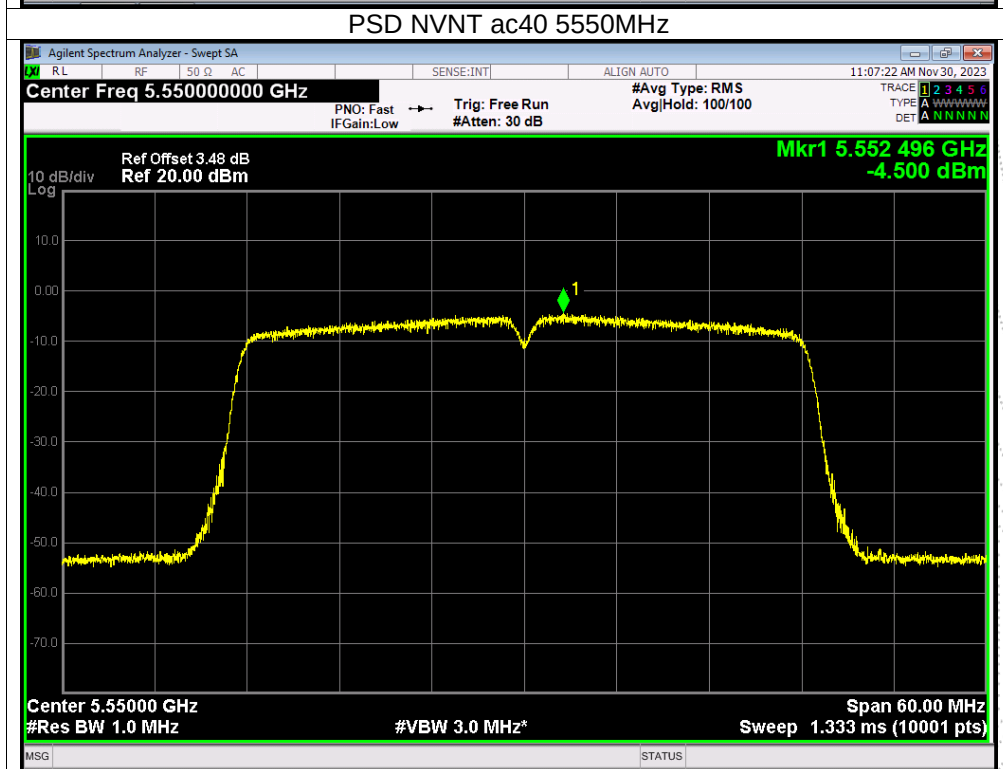
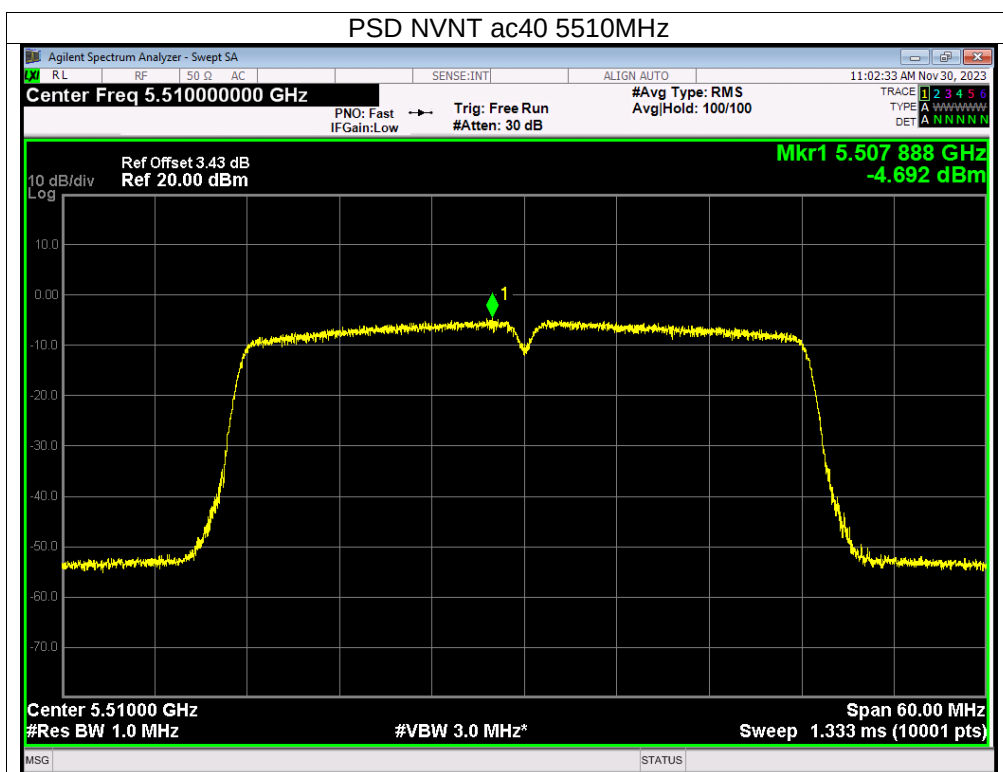
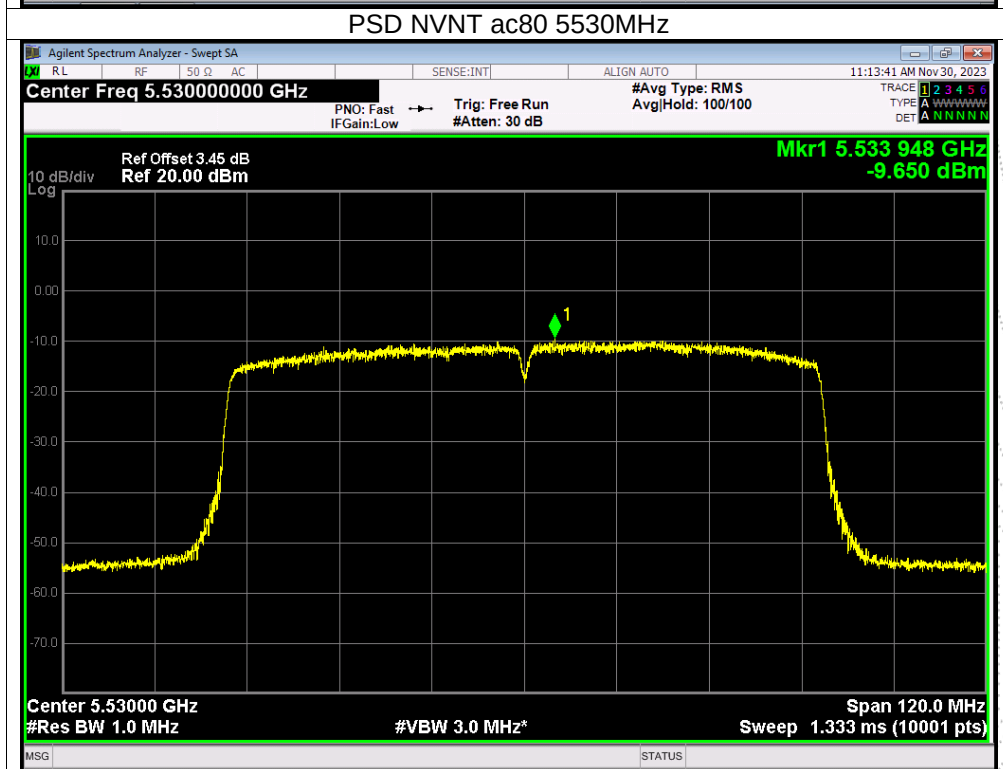
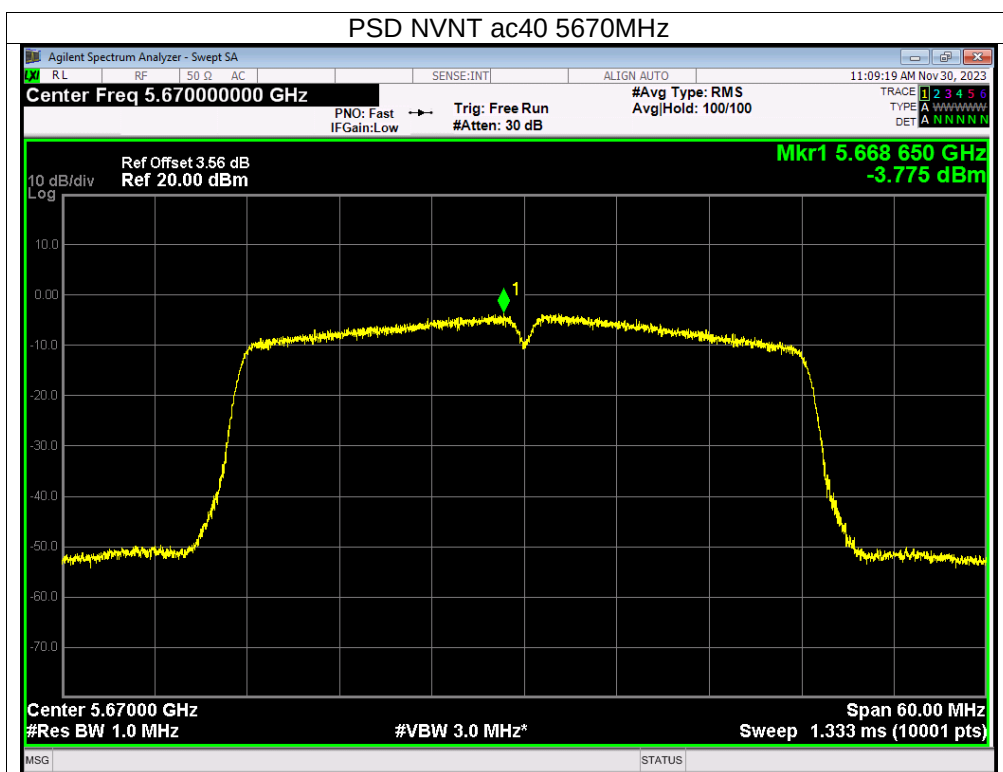






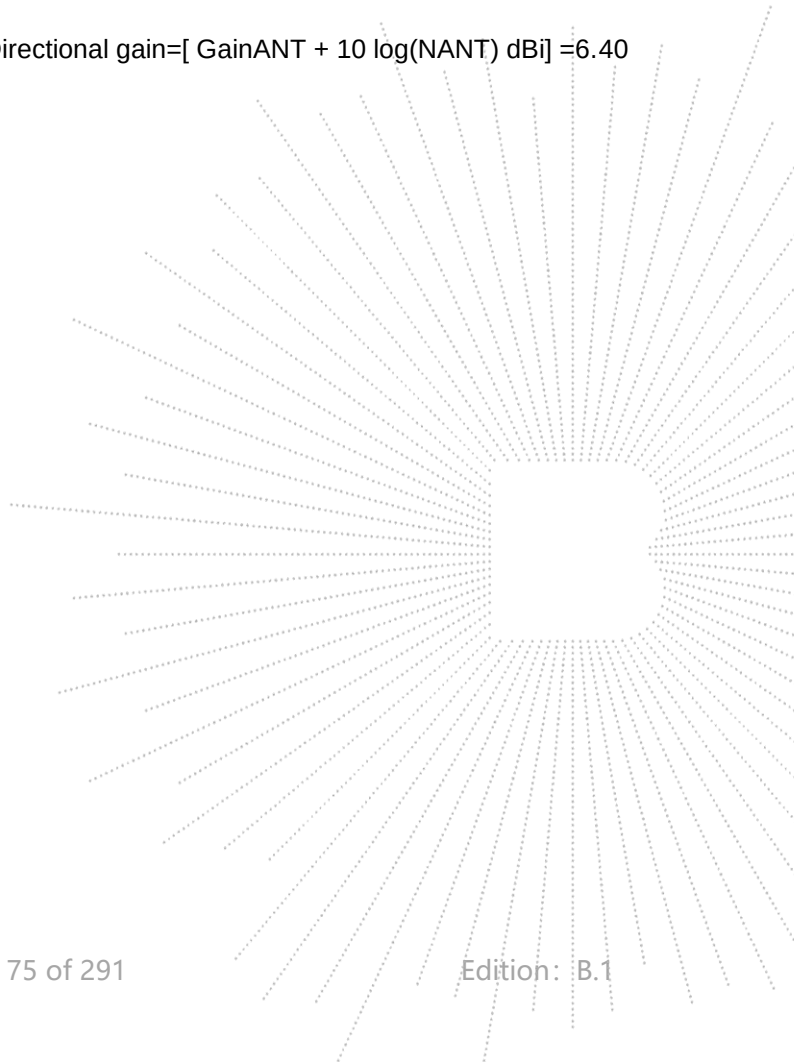
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)		Total (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
			Ant A	Ant B			
NVNT	a	5745	-3.74	-3.53	/	30	Pass
NVNT	a	5785	-3.52	-3.52	/	30	Pass
NVNT	a	5825	-3.7	-4.15	/	30	Pass
NVNT	n20	5745	-5.59	-6.25	-2.90	29.60	Pass
NVNT	n20	5785	-5.32	-2.03	-0.36	29.60	Pass
NVNT	n20	5825	-5.02	-5.83	-2.40	29.60	Pass
NVNT	n40	5755	-8.09	-8.91	-5.47	29.60	Pass
NVNT	n40	5795	-8.26	-8.85	-5.53	29.60	Pass
NVNT	ac20	5745	-5.09	-5.97	-2.50	29.60	Pass
NVNT	ac20	5785	-4.46	-5.94	-2.13	29.60	Pass
NVNT	ac20	5825	-5.22	-5.51	-2.35	29.60	Pass
NVNT	ac40	5755	-8.39	-8.95	-5.65	29.60	Pass
NVNT	ac40	5795	-8.36	-9.32	-5.80	29.60	Pass
NVNT	ac80	5775	-12.83	-12.96	-9.88	29.60	Pass

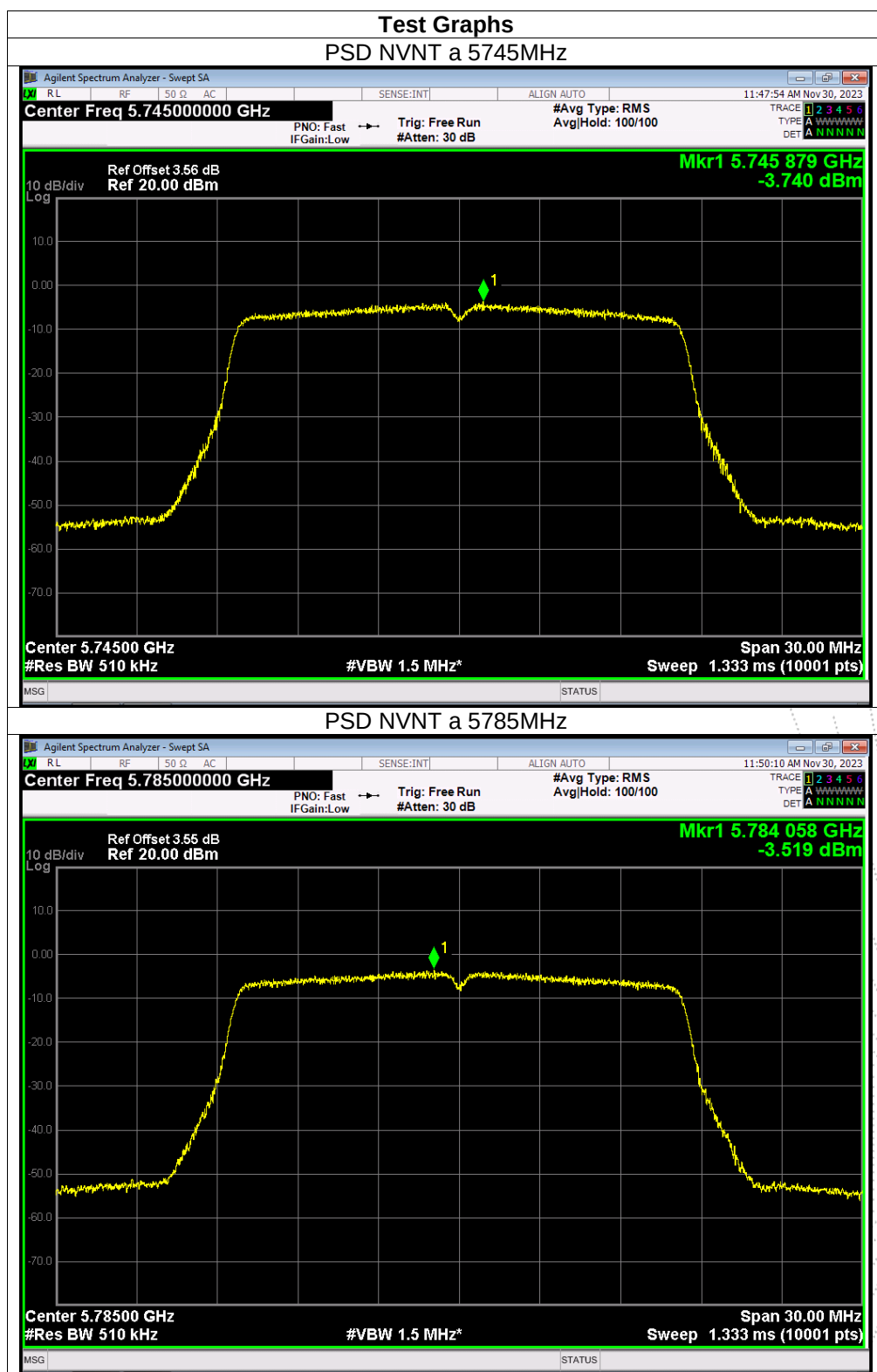
Note:

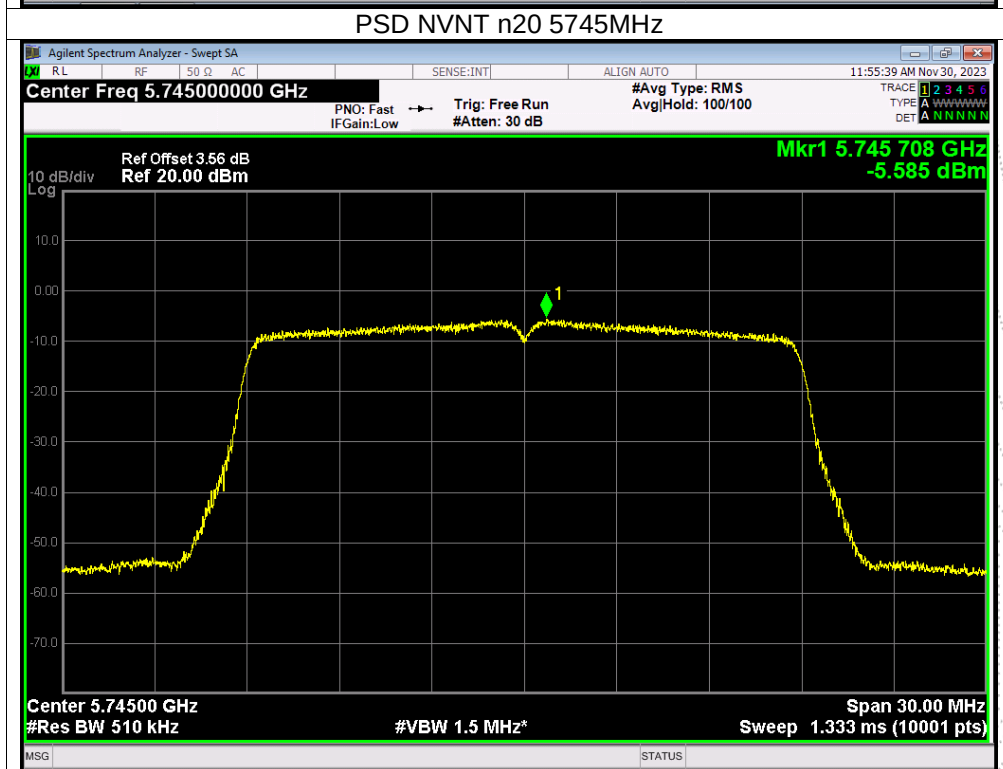
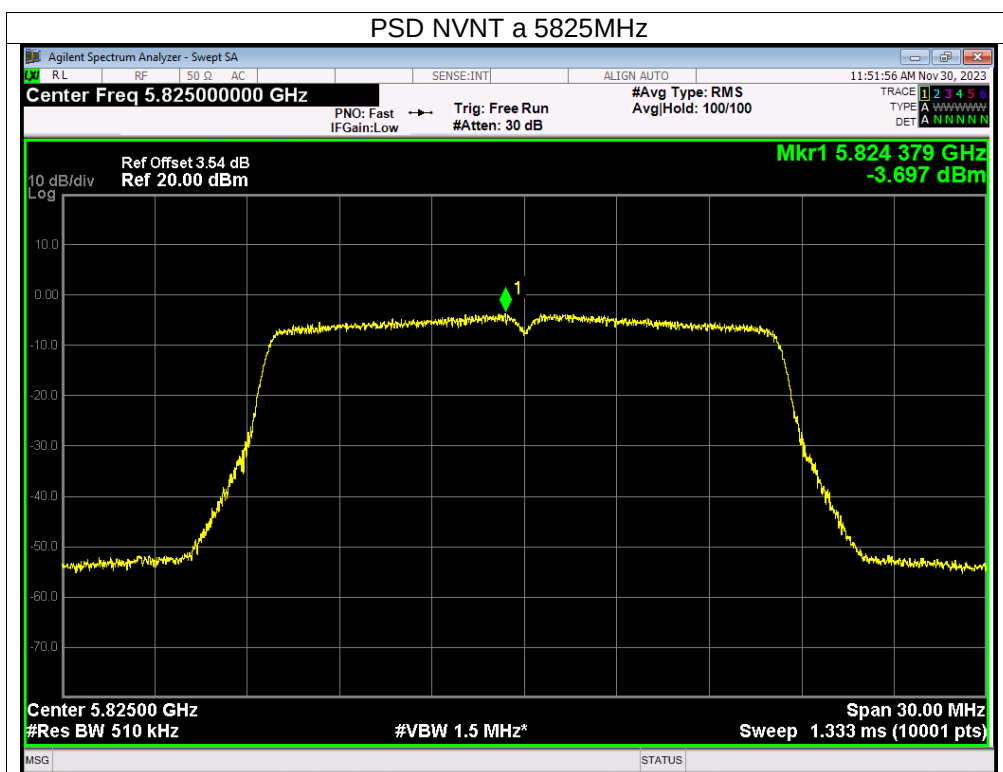
Antenna A gain:3.39 dBi, Antenna B gain: 3.39 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.40 dBi>6dbi

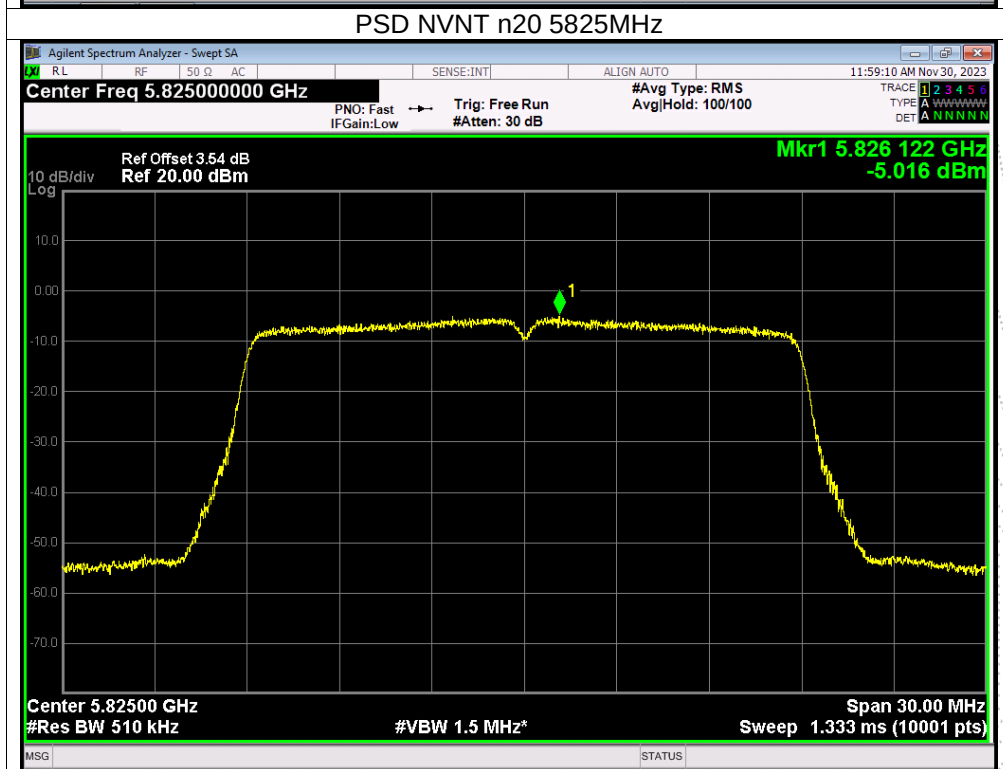
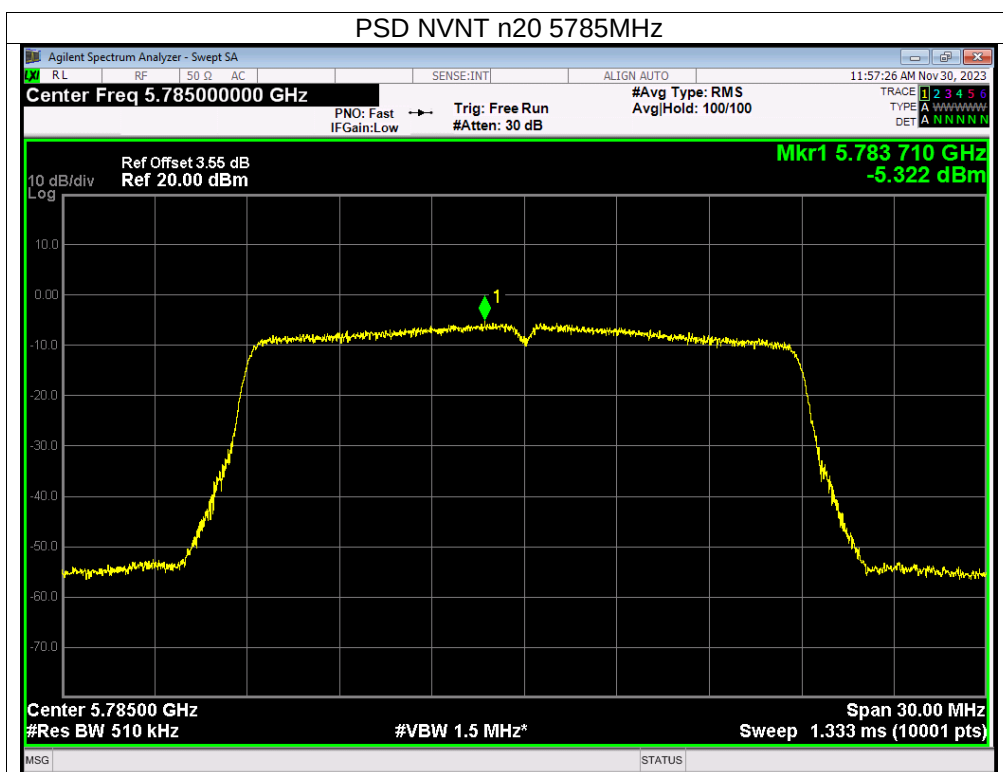
Limit=30-(6.40-6)=29.60 dbi

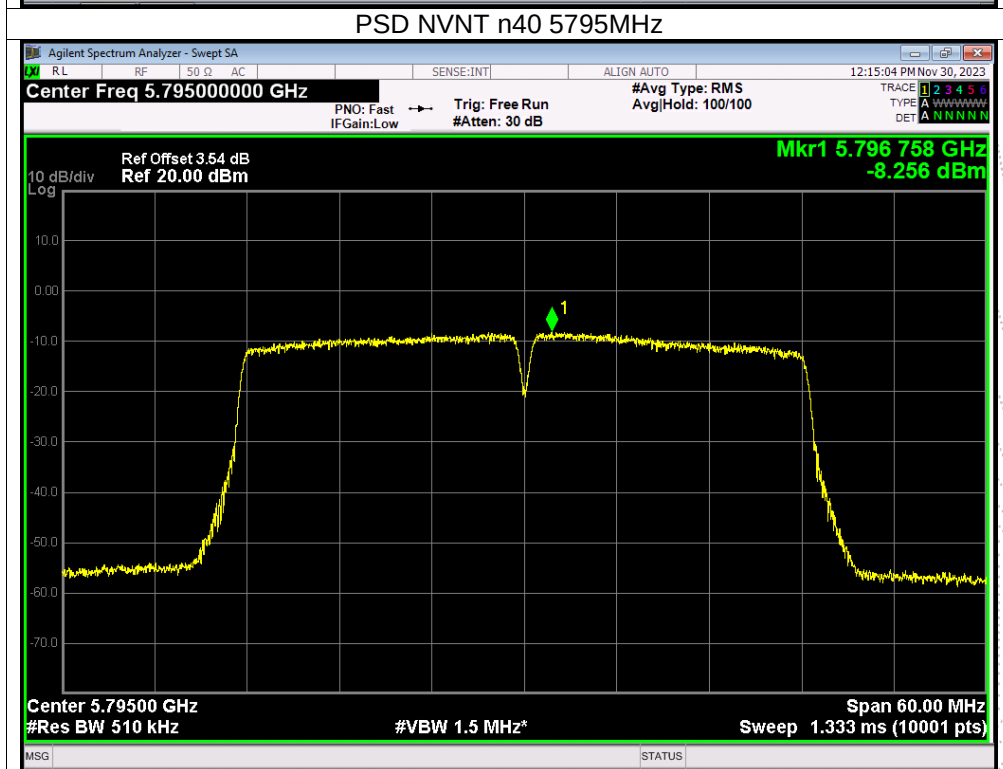
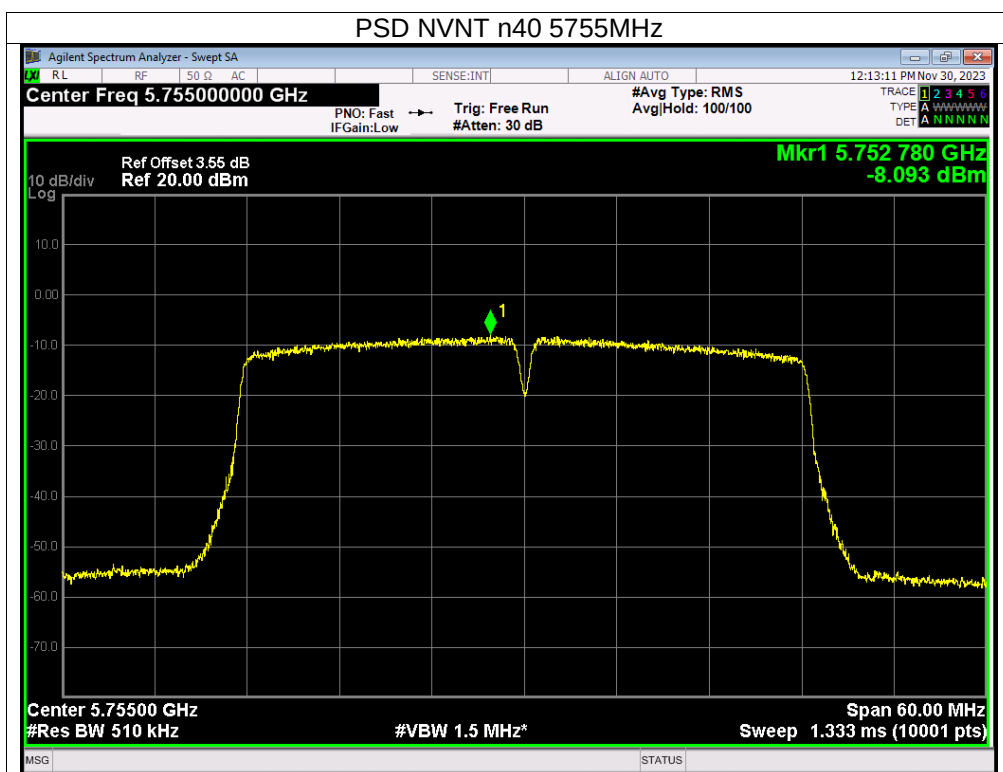


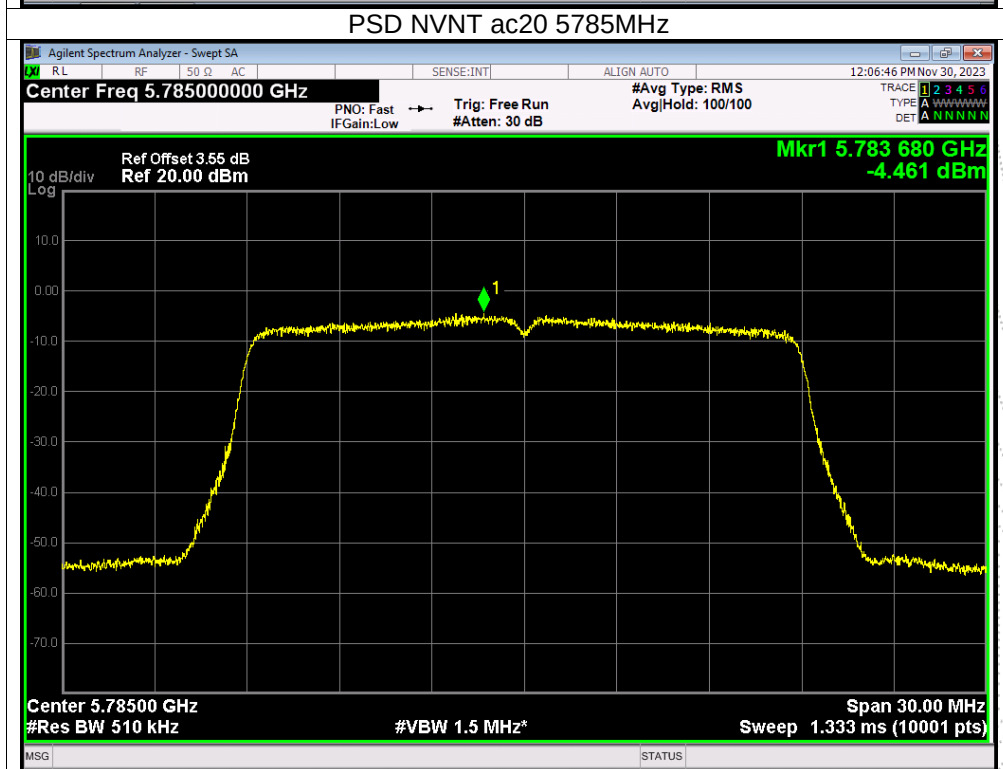
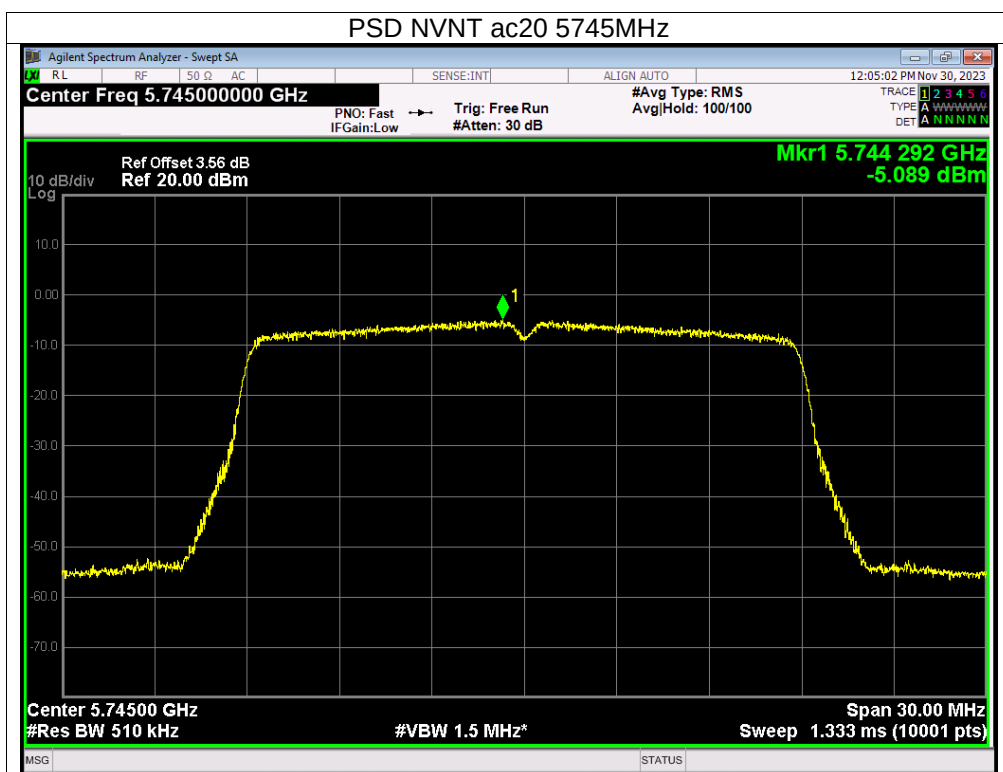
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

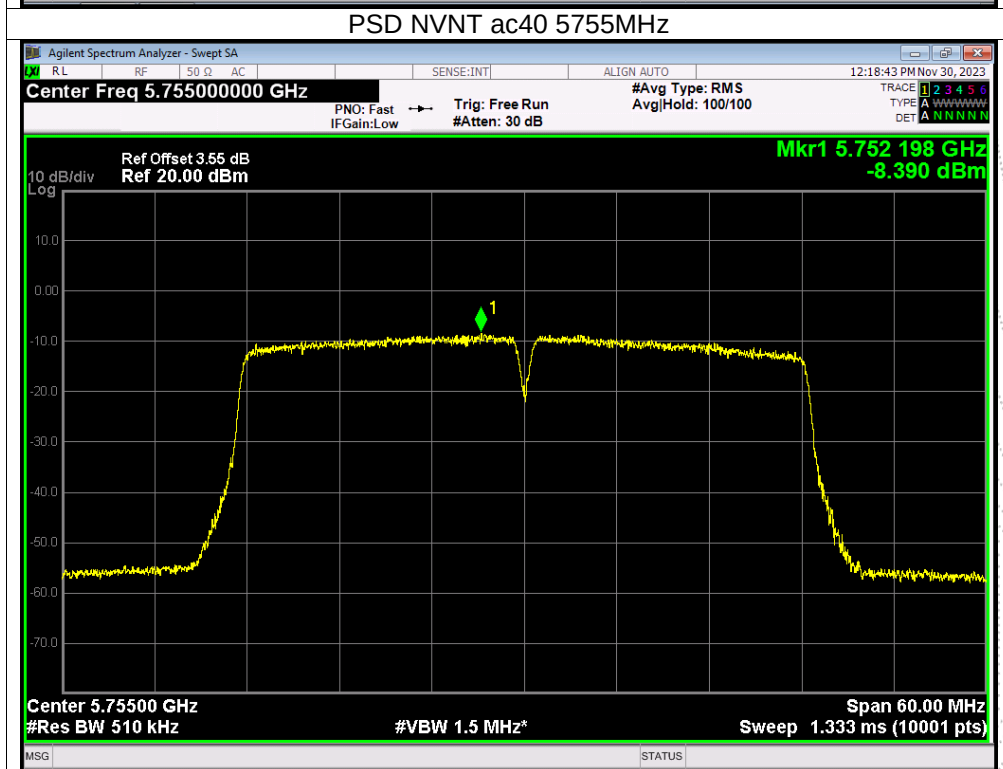
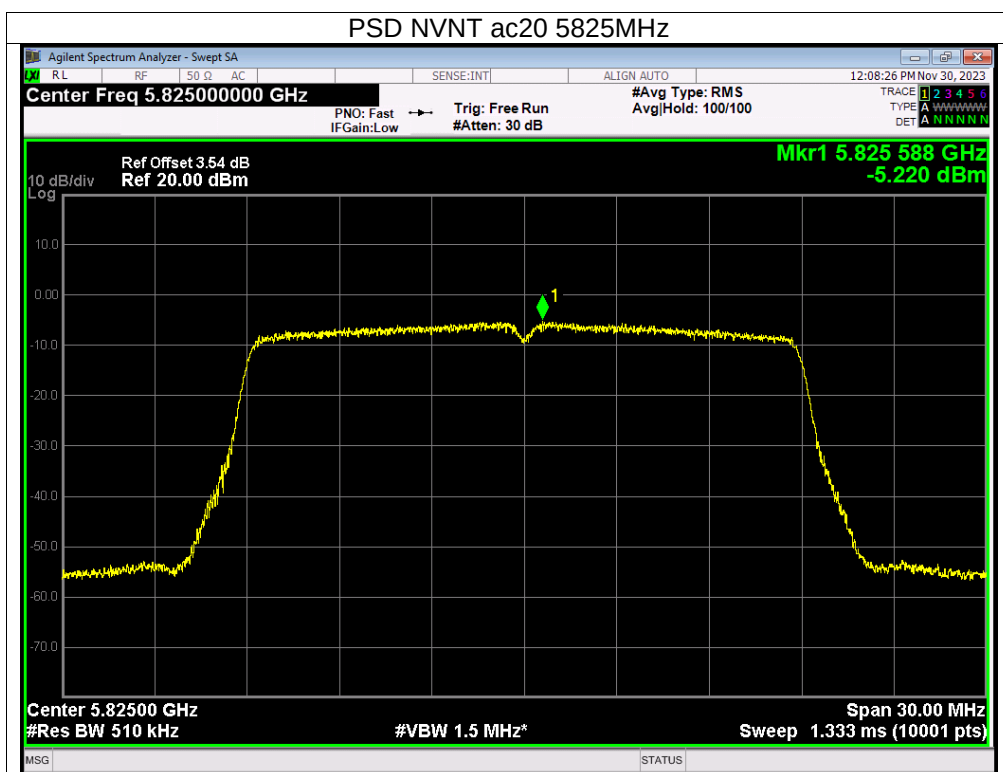


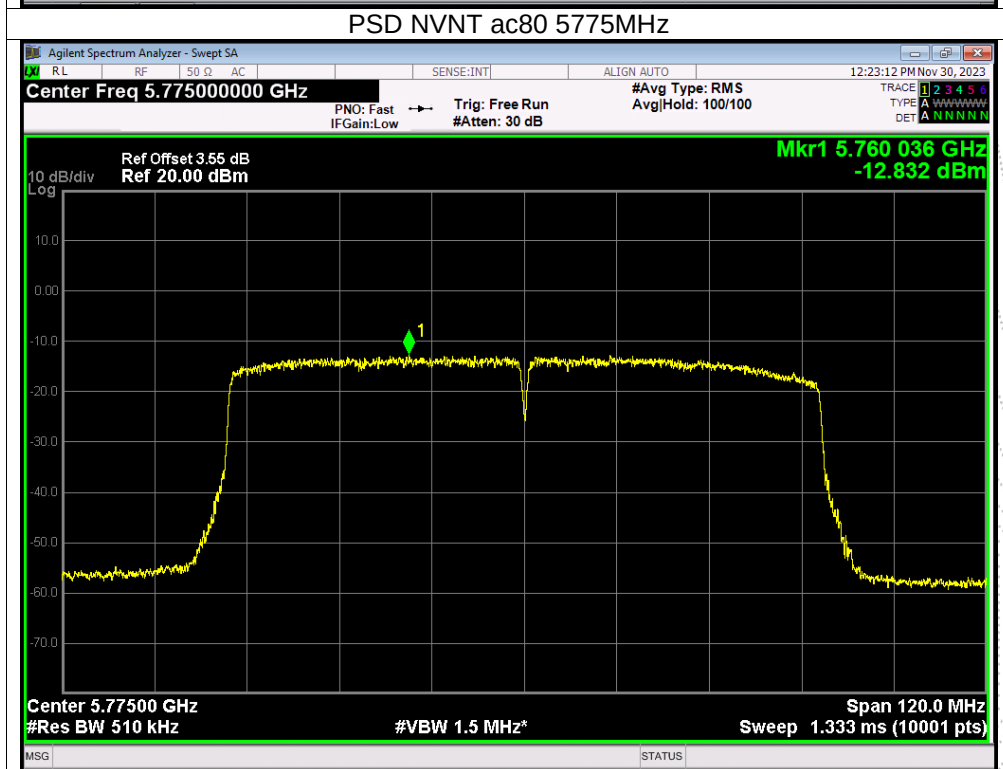
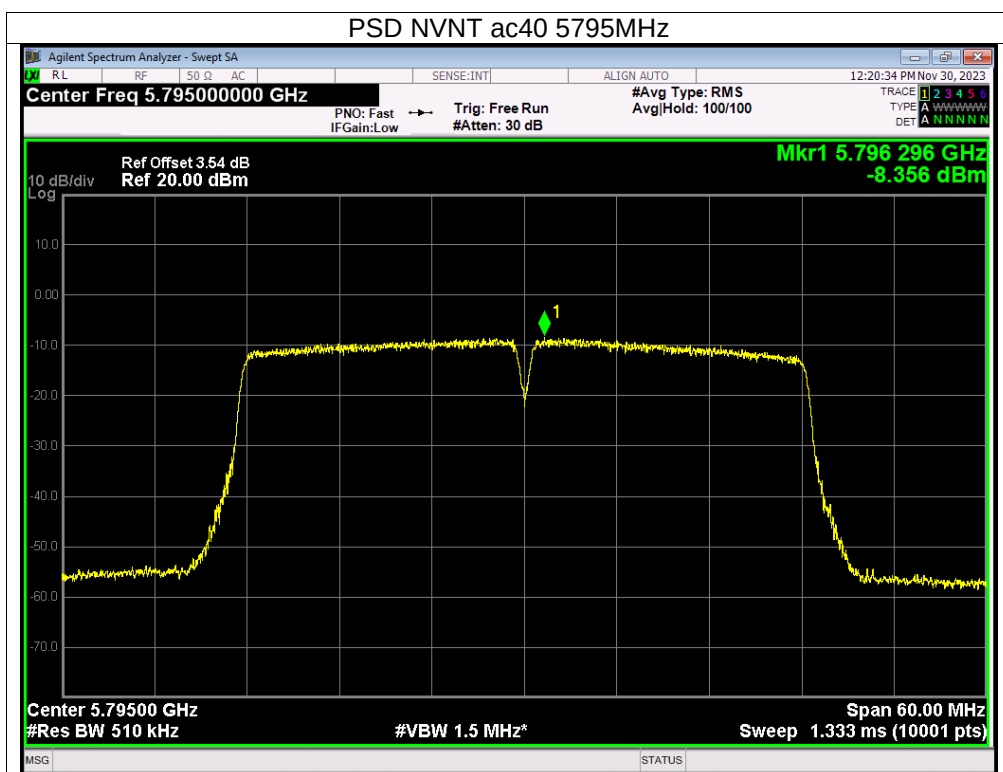






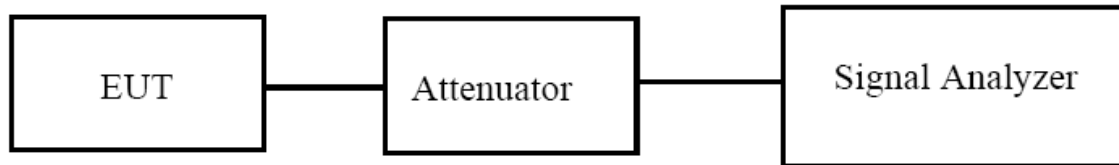






9. 26dB & 6dB & 99% Emission Bandwidth

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.
- Set RBW = 1 % to 5 % of the OBW

4. Set VBW $\geq 3 \cdot$ RBW

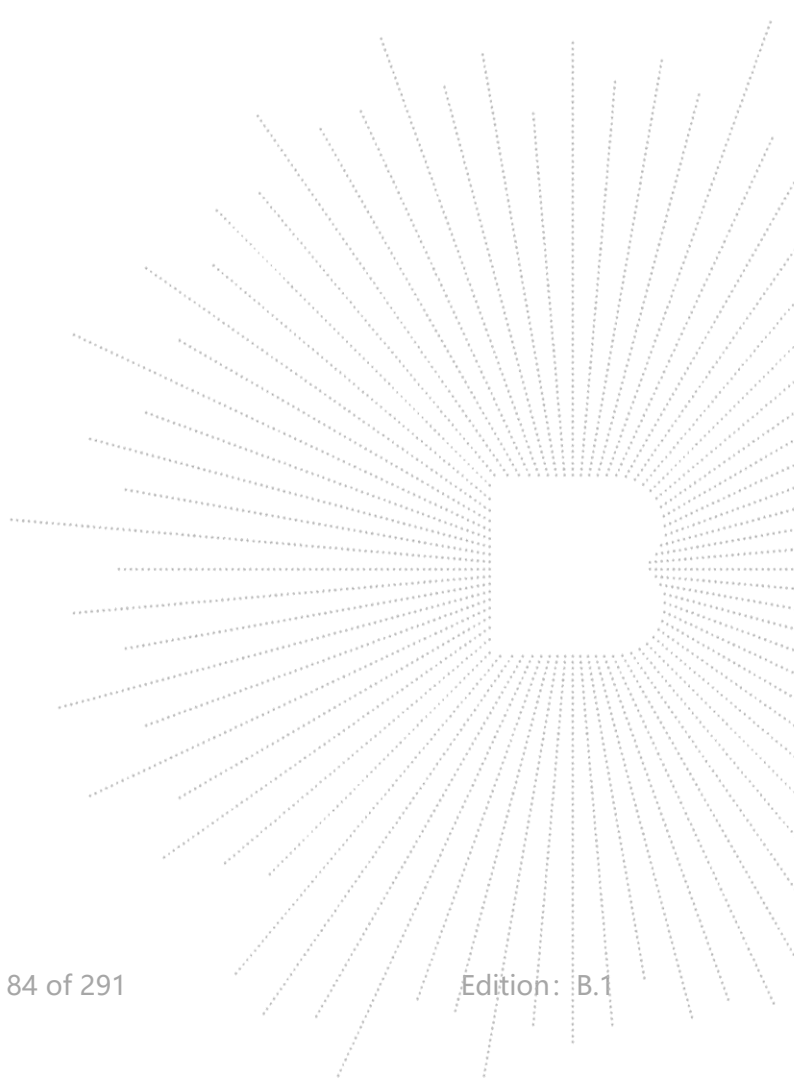
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

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.



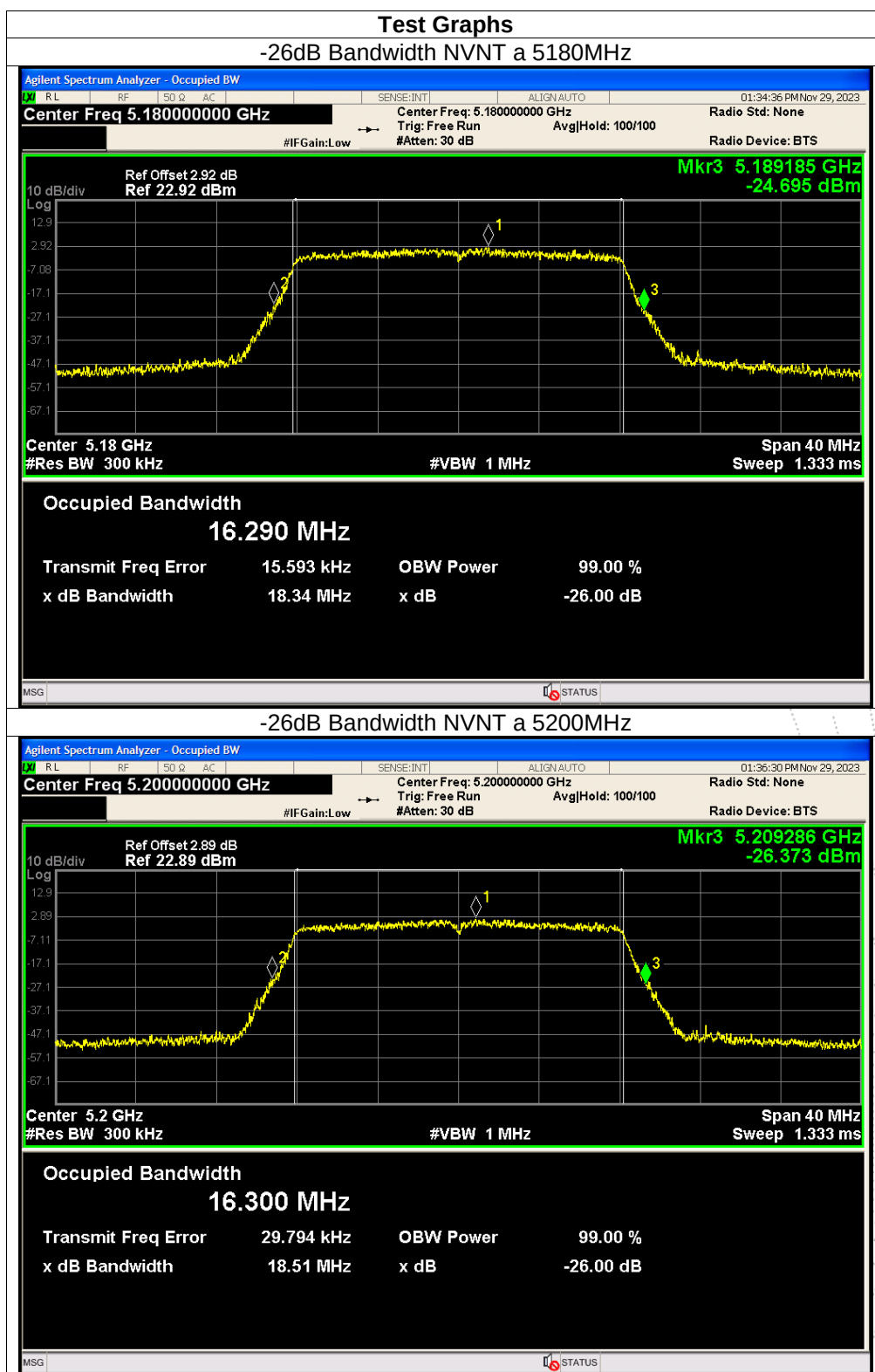
9.5 Test Result

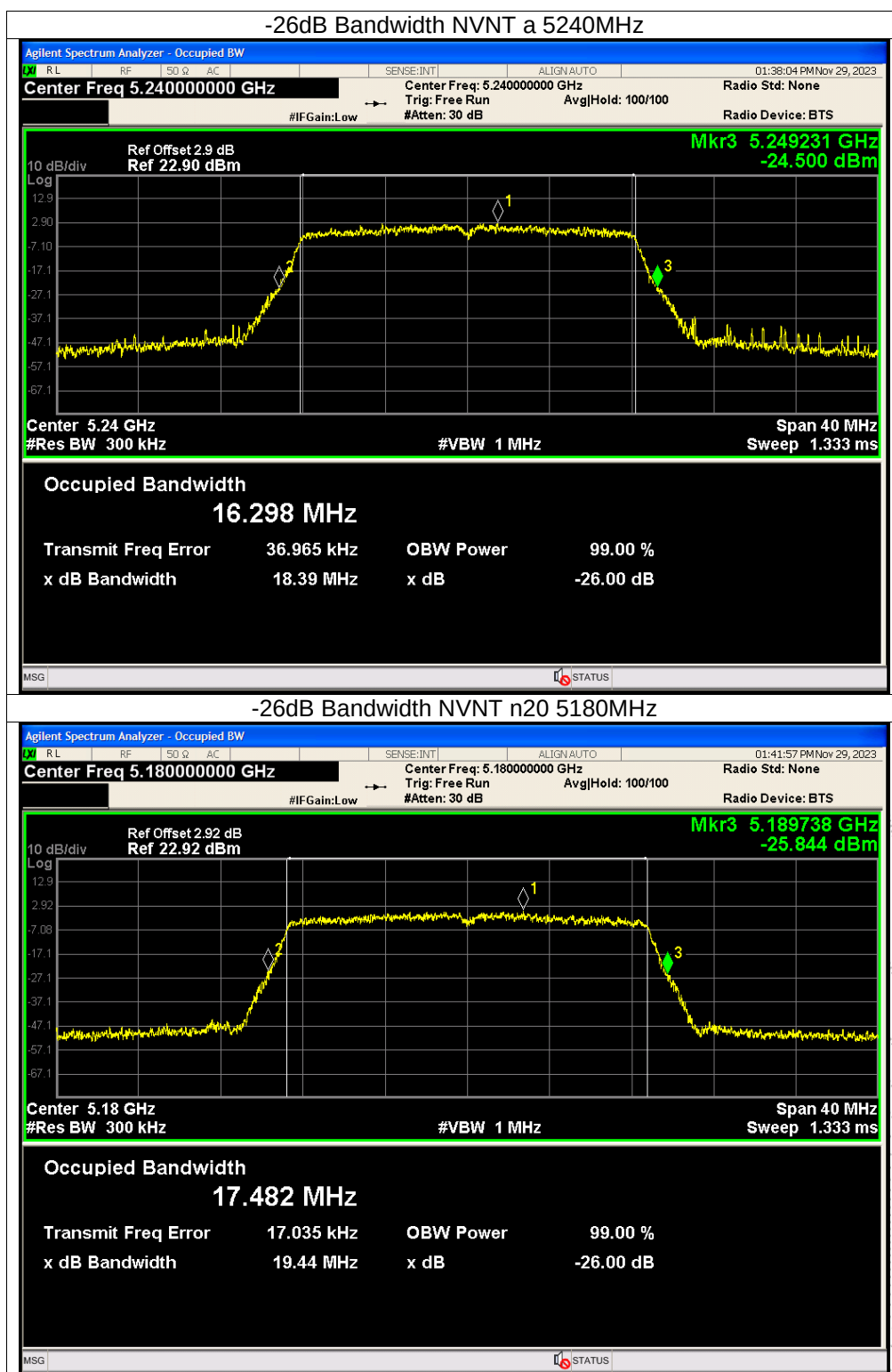
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz)		

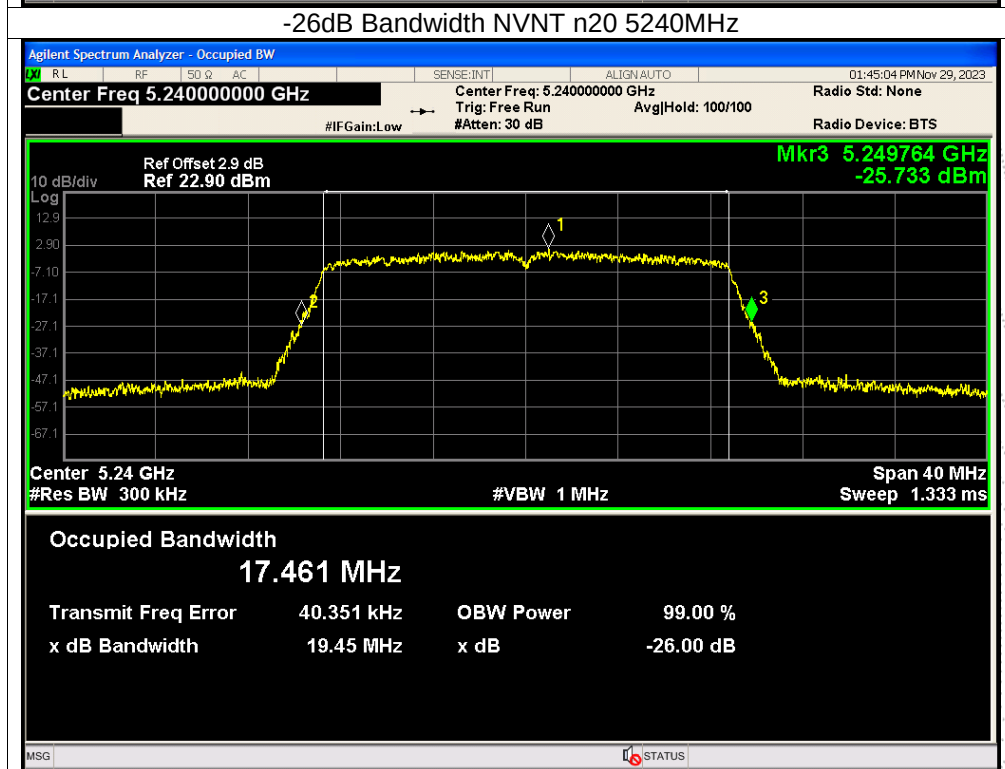
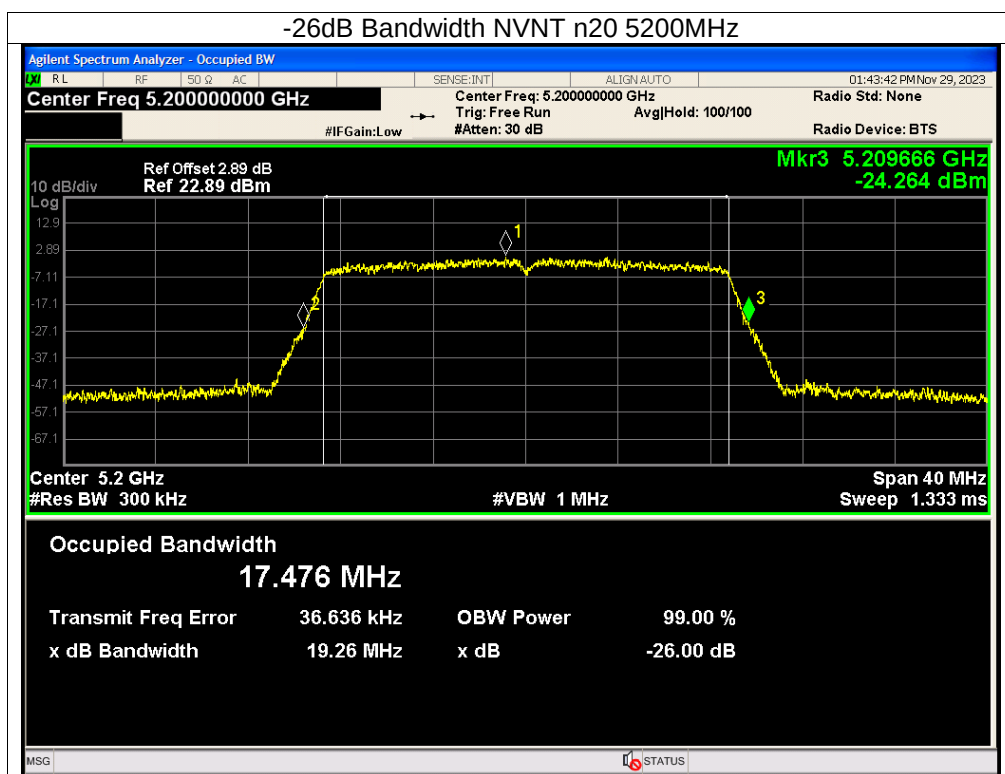
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		Verdict
			Ant A	Ant B	
NVNT	a	5180	18.367	18.34	Pass
NVNT	a	5200	18.507	18.512	Pass
NVNT	a	5240	18.506	18.388	Pass
NVNT	n20	5180	19.426	19.441	Pass
NVNT	n20	5200	19.358	19.258	Pass
NVNT	n20	5240	19.339	19.447	Pass
NVNT	n40	5190	39.535	39.784	Pass
NVNT	n40	5230	38.983	39.635	Pass
NVNT	ac20	5180	19.449	19.417	Pass
NVNT	ac20	5200	19.33	19.394	Pass
NVNT	ac20	5240	19.31	19.167	Pass
NVNT	ac40	5190	39.694	39.774	Pass
NVNT	ac40	5230	39.651	39.642	Pass
NVNT	ac80	5210	81.271	81.845	Pass

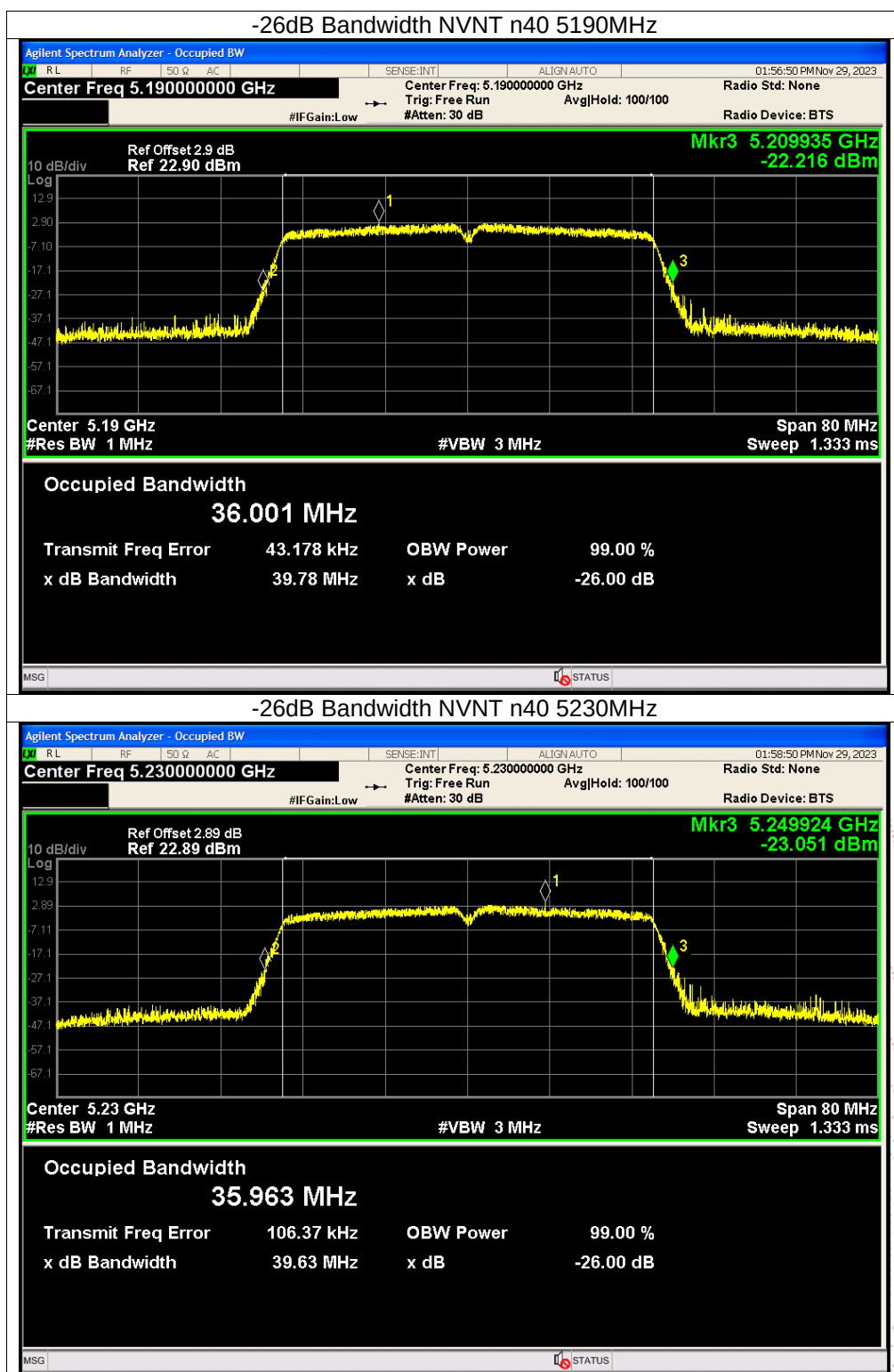
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	
			Ant A	Ant B
NVNT	a	5180	16.27	16.266
NVNT	a	5200	16.276	16.277
NVNT	a	5240	16.298	16.268
NVNT	n20	5180	17.464	17.47
NVNT	n20	5200	17.453	17.455
NVNT	n20	5240	17.436	17.453
NVNT	n40	5190	35.945	35.872
NVNT	n40	5230	35.255	35.892
NVNT	ac20	5180	17.453	17.45
NVNT	ac20	5200	17.444	17.456
NVNT	ac20	5240	17.447	17.431
NVNT	ac40	5190	35.879	35.946
NVNT	ac40	5230	35.804	35.864
NVNT	ac80	5210	74.923	74.786

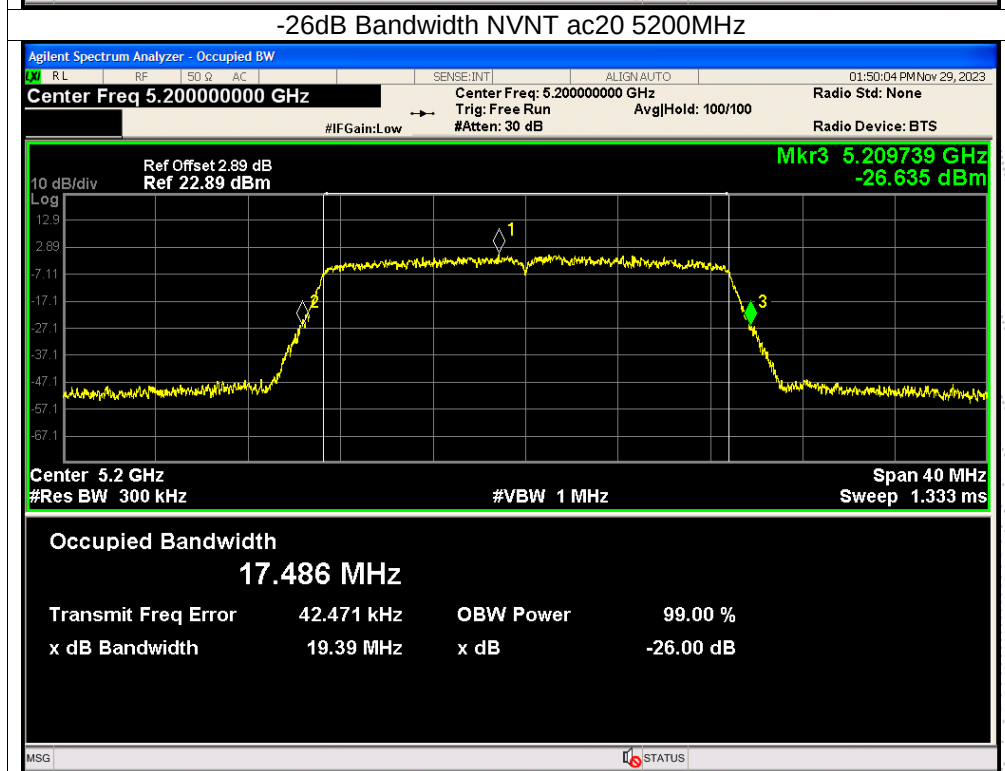
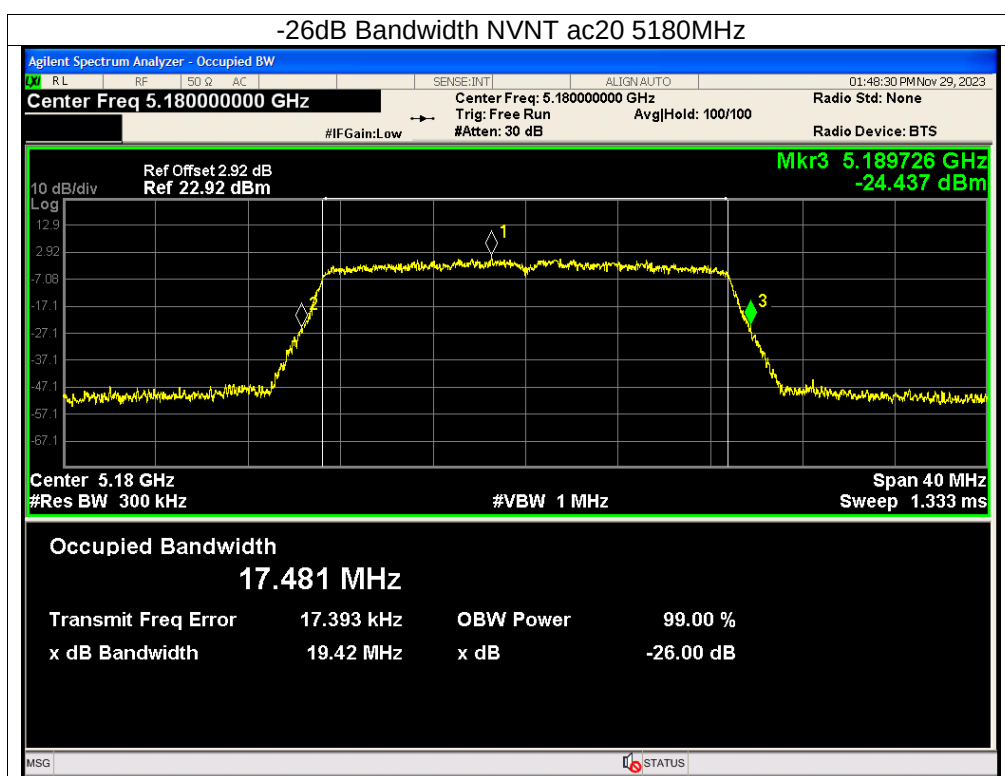
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

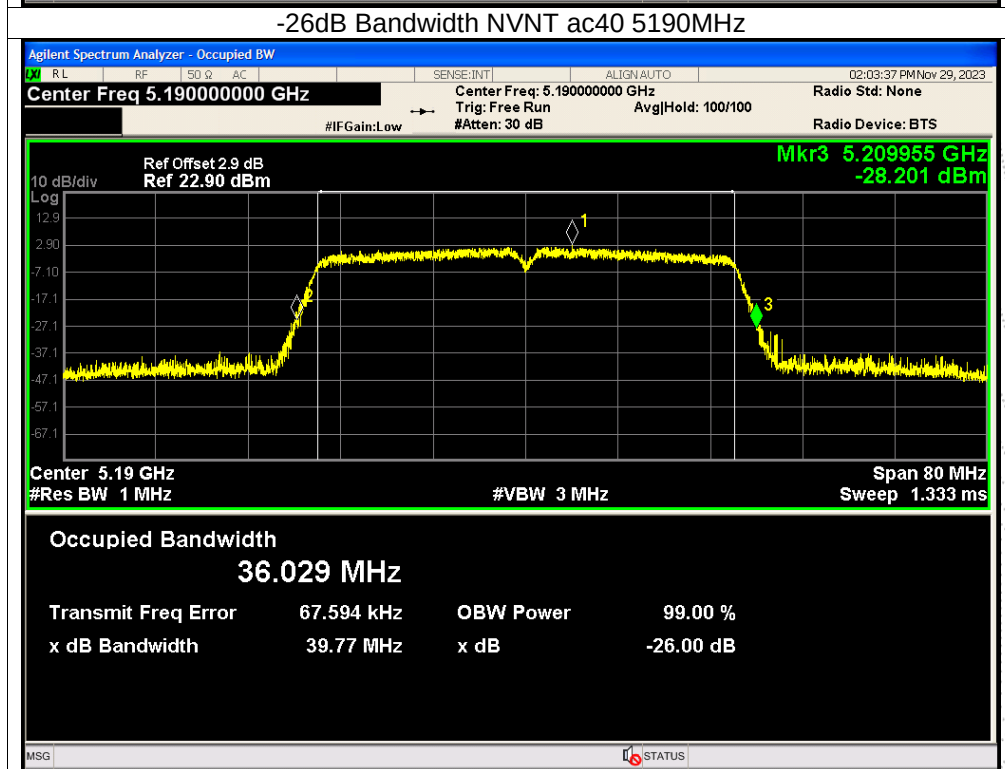
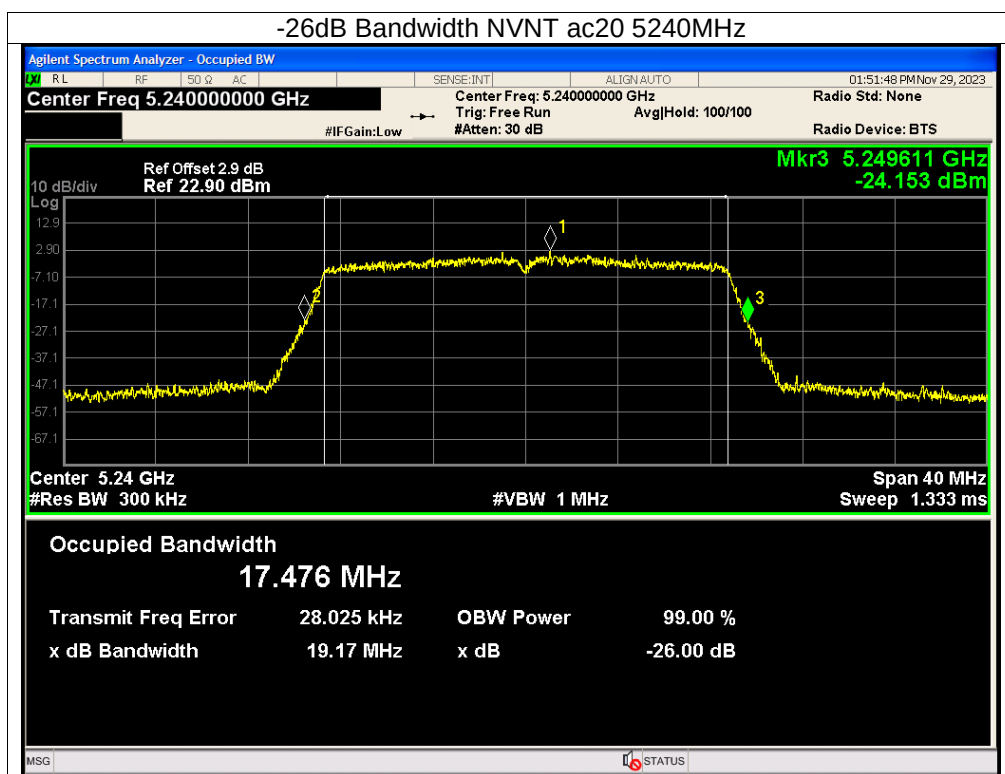


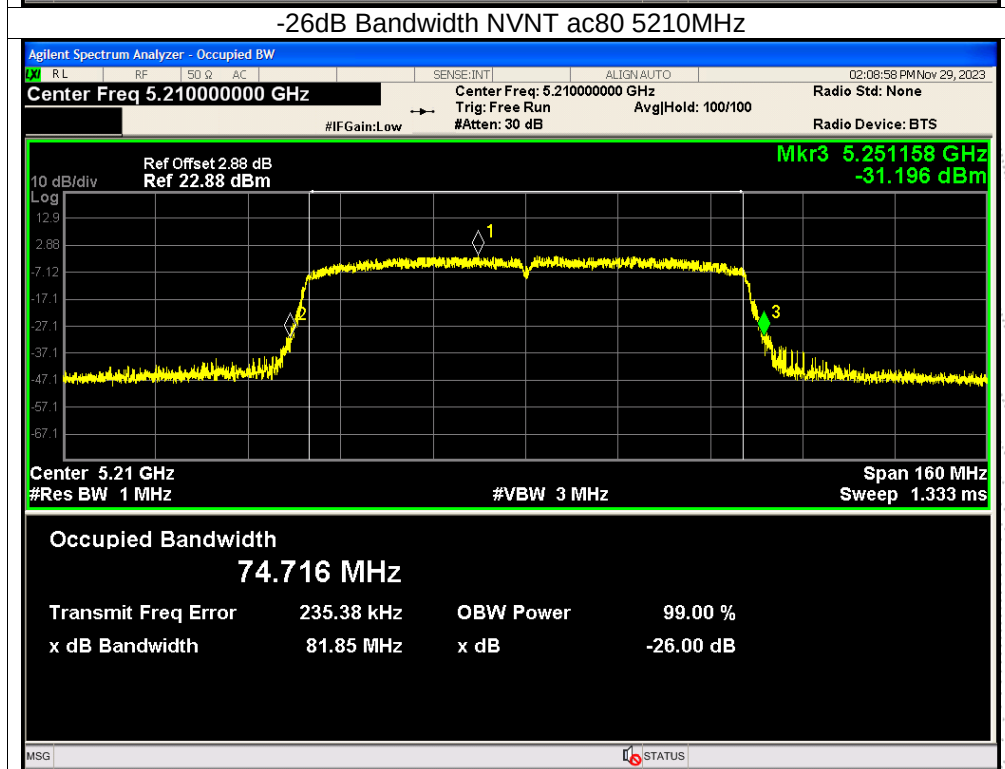
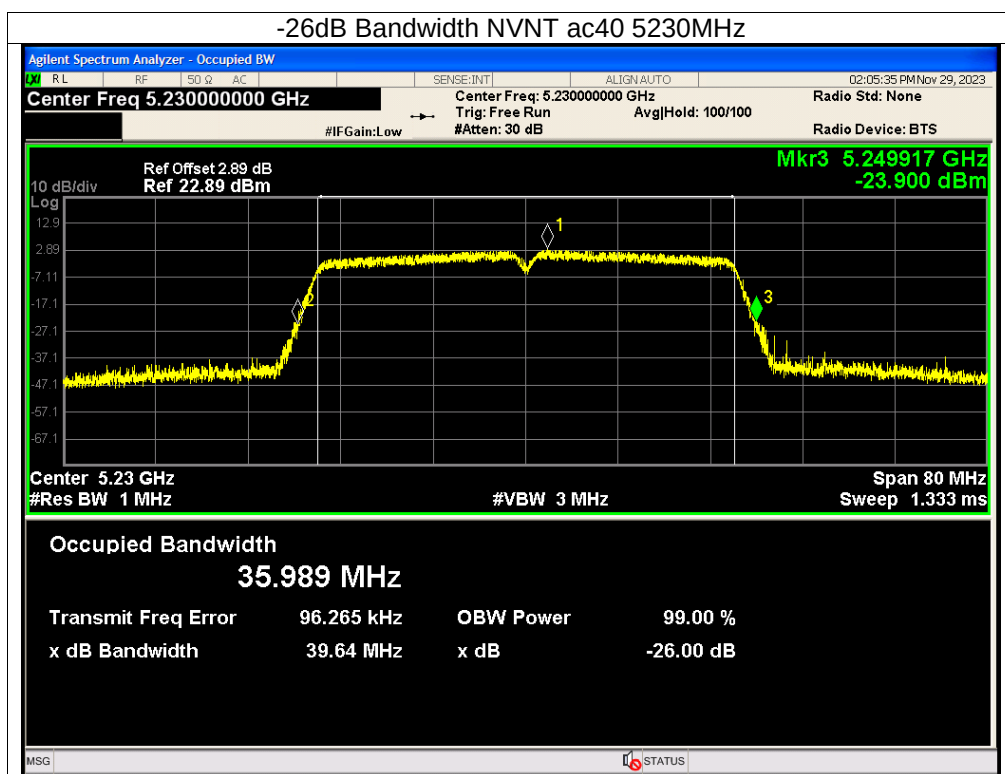




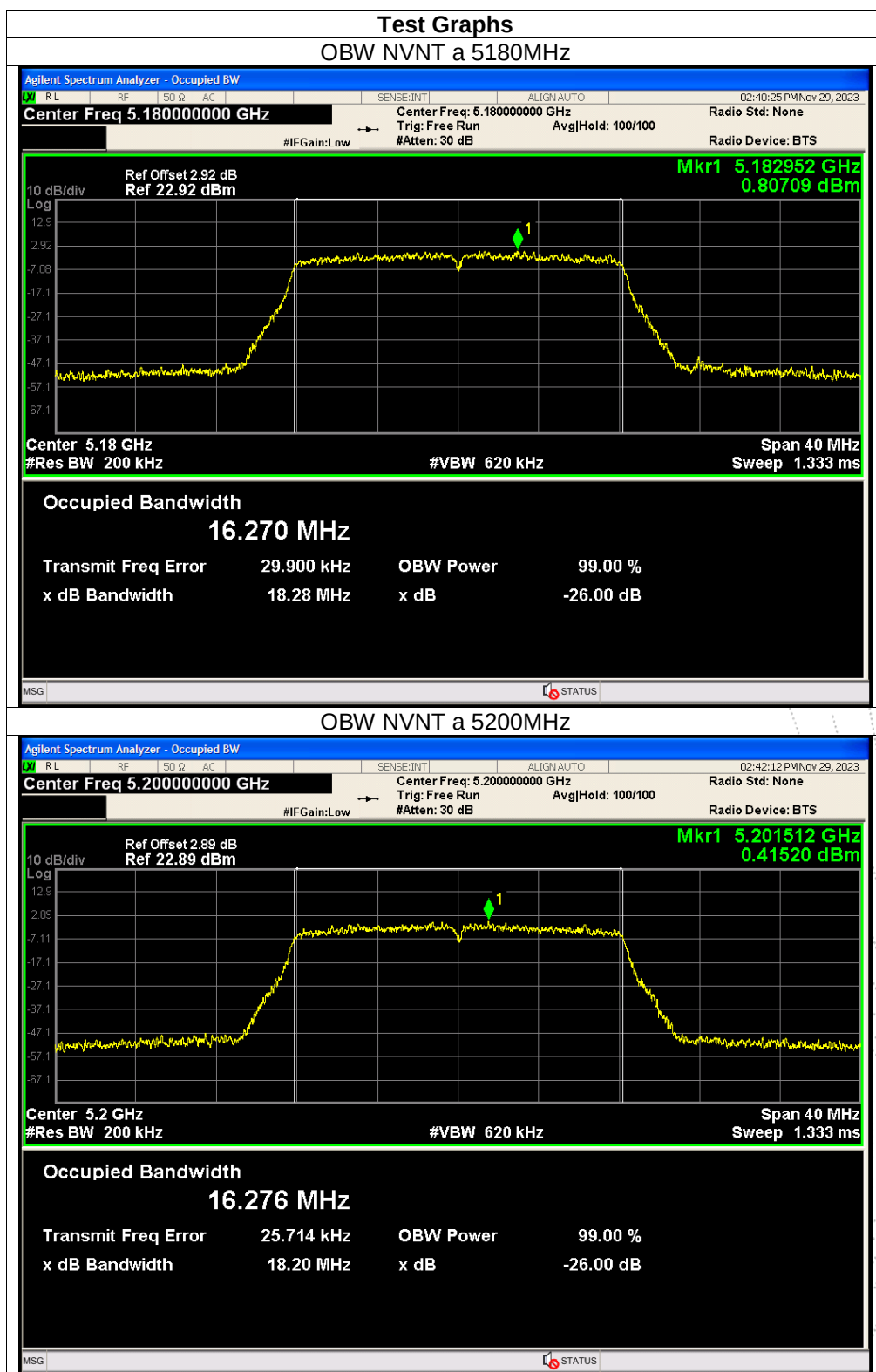


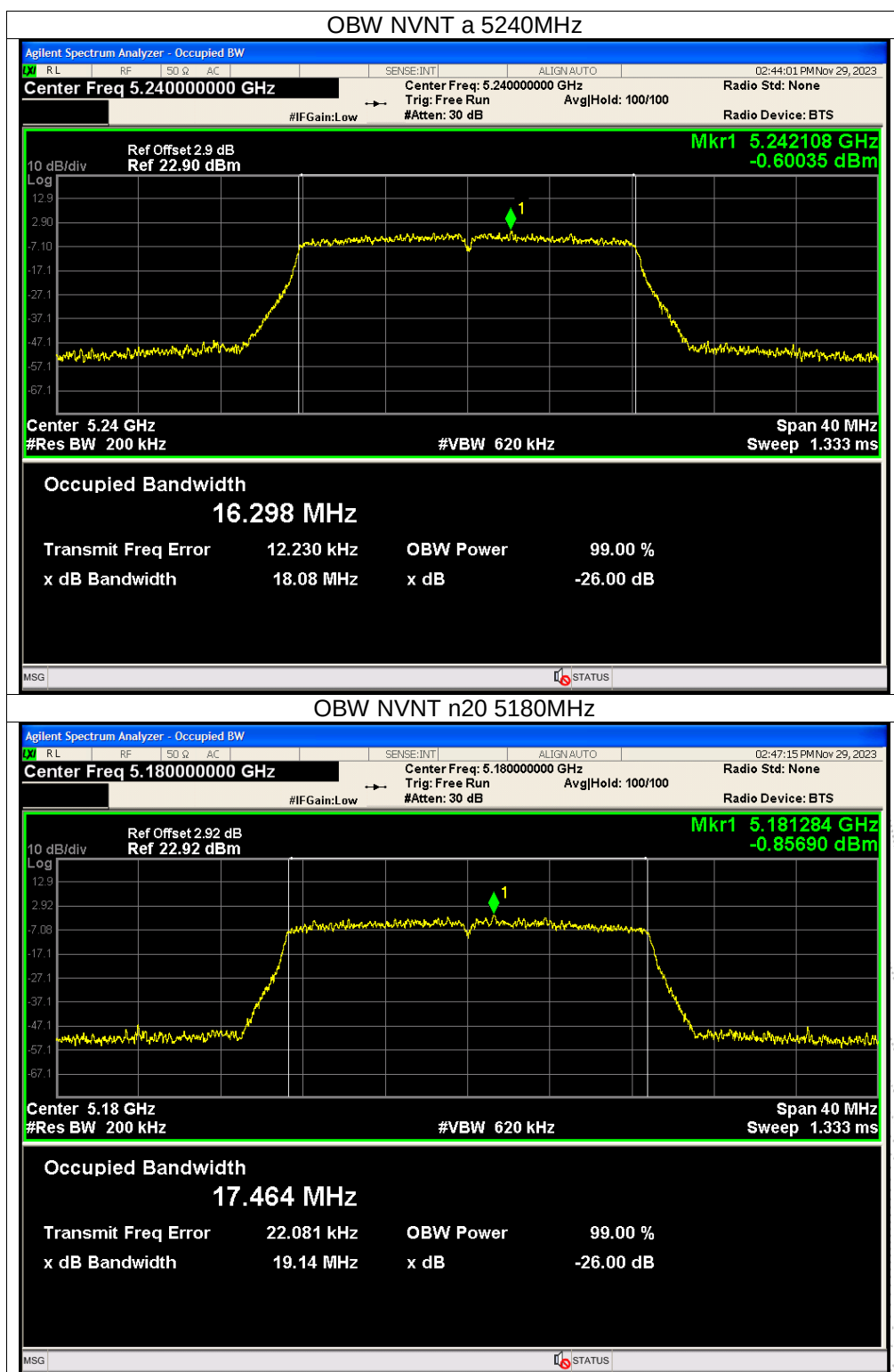


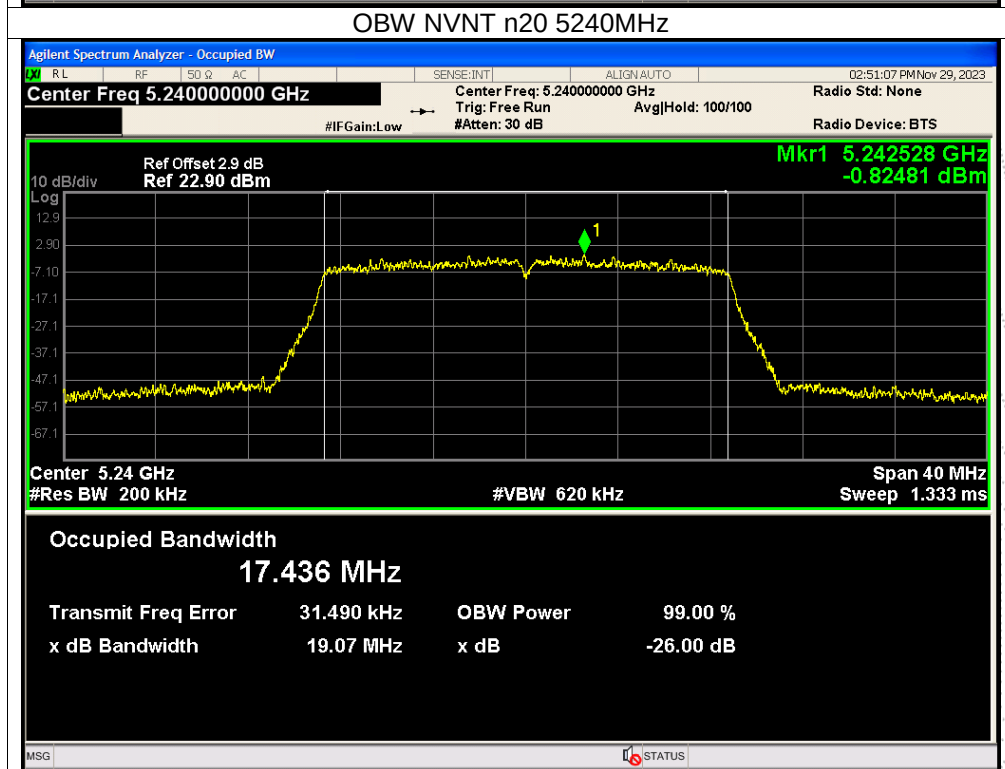
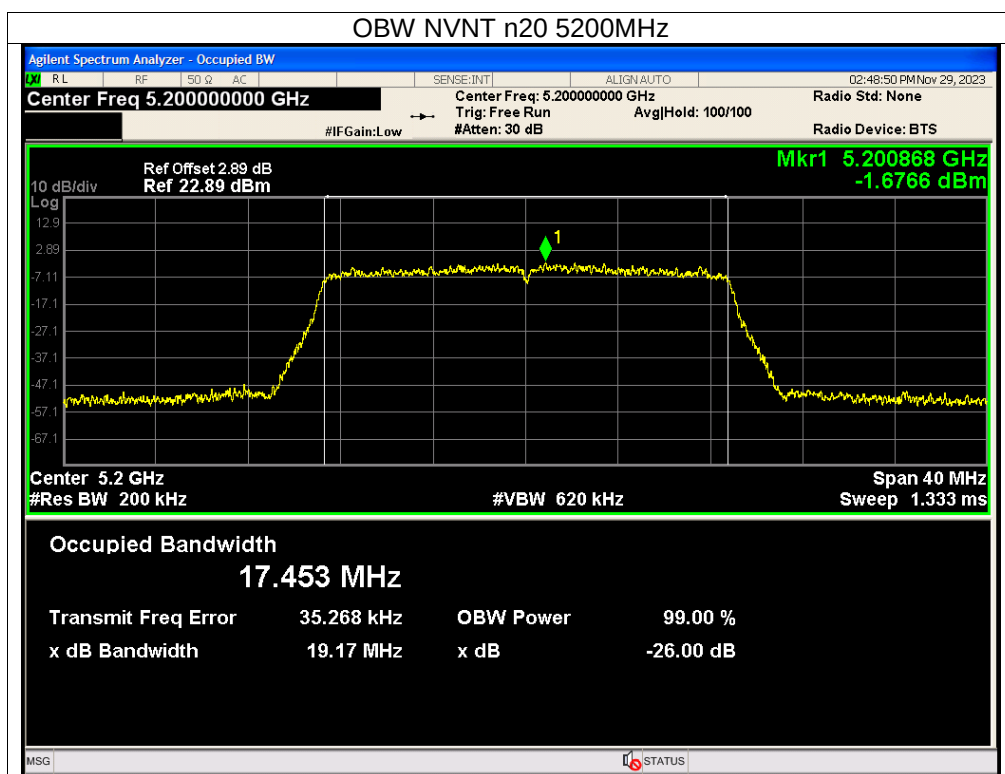


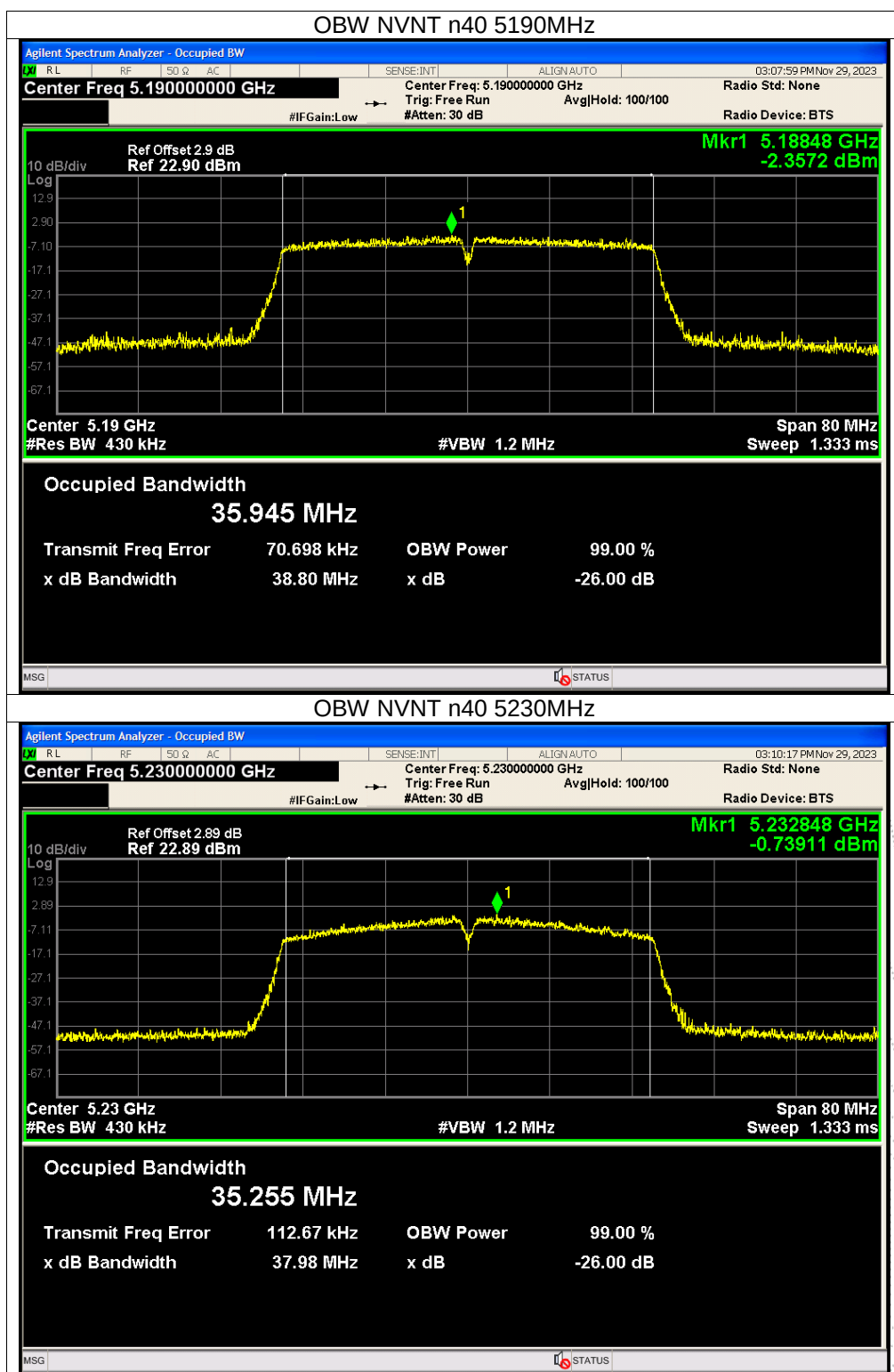


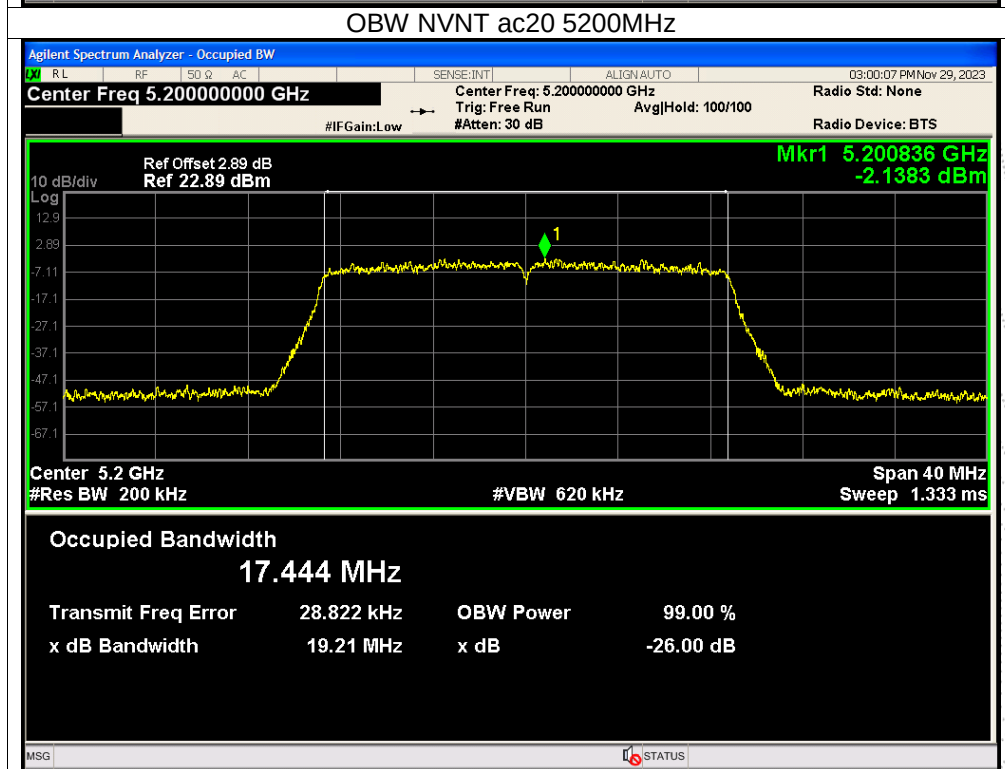
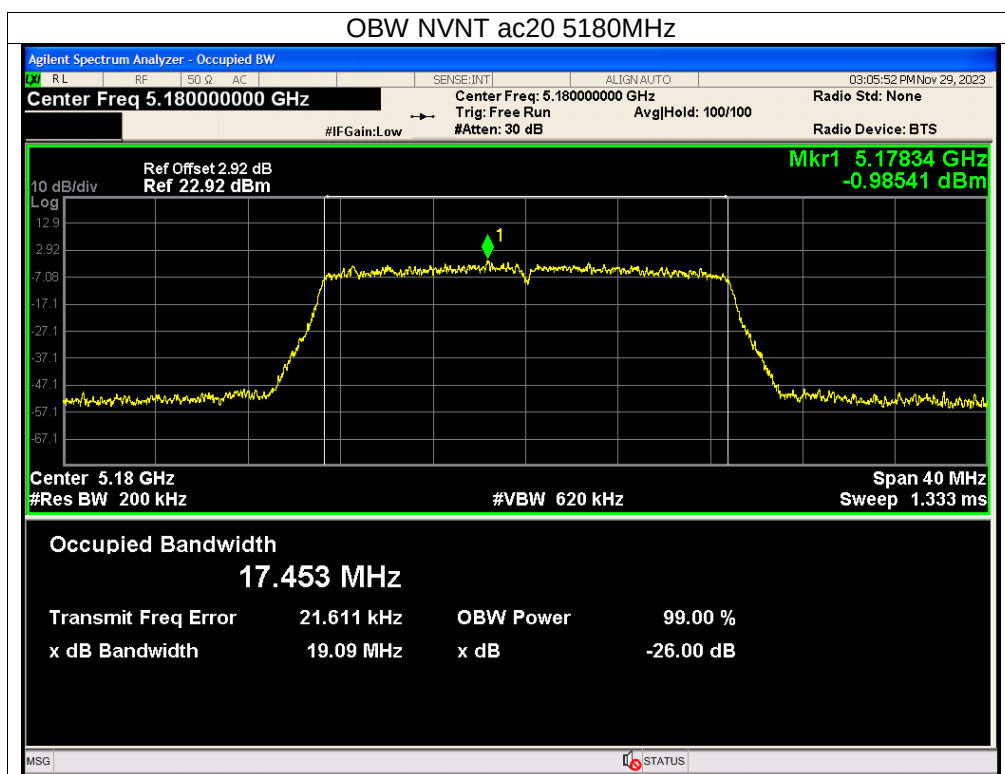
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

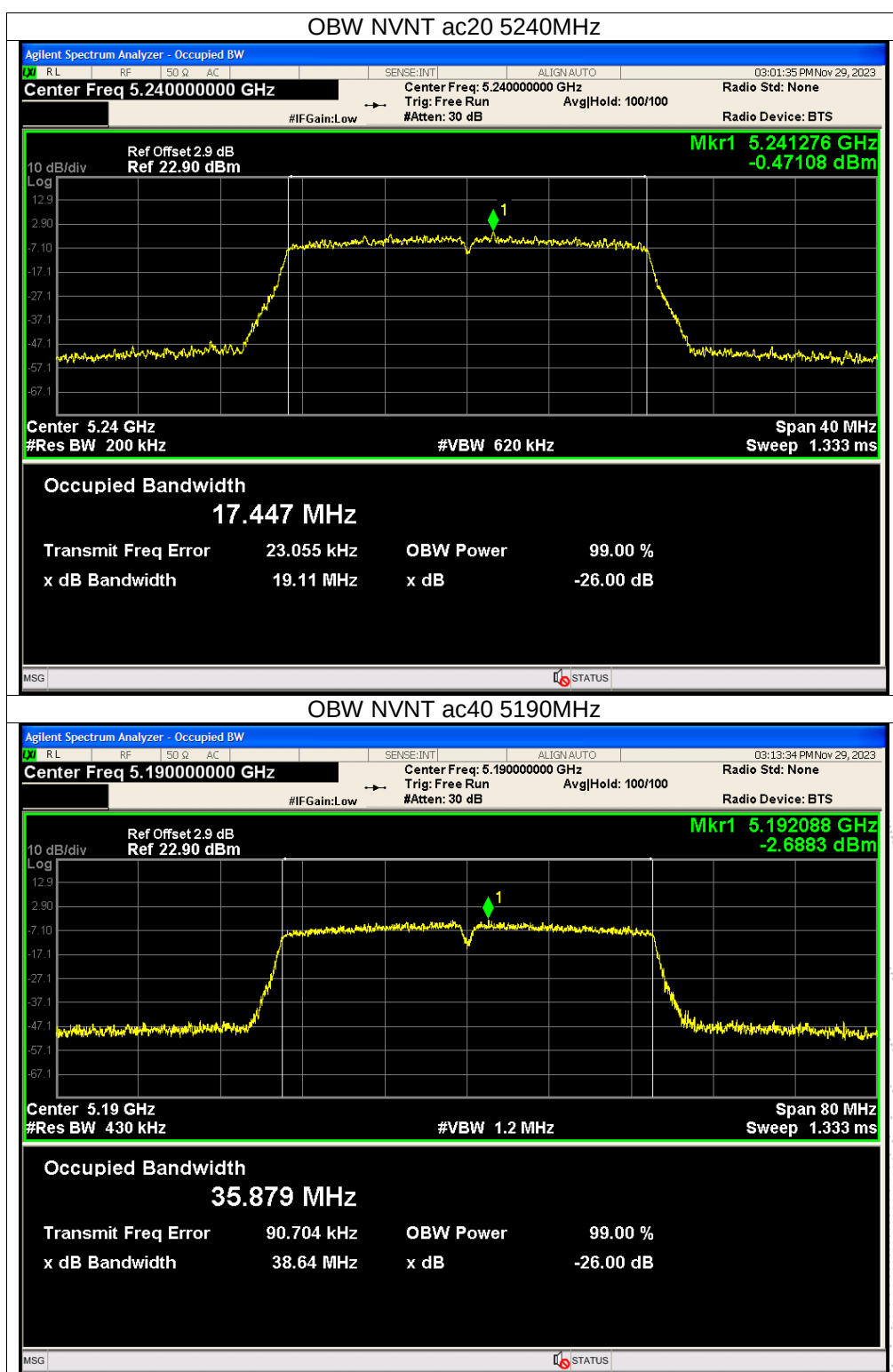


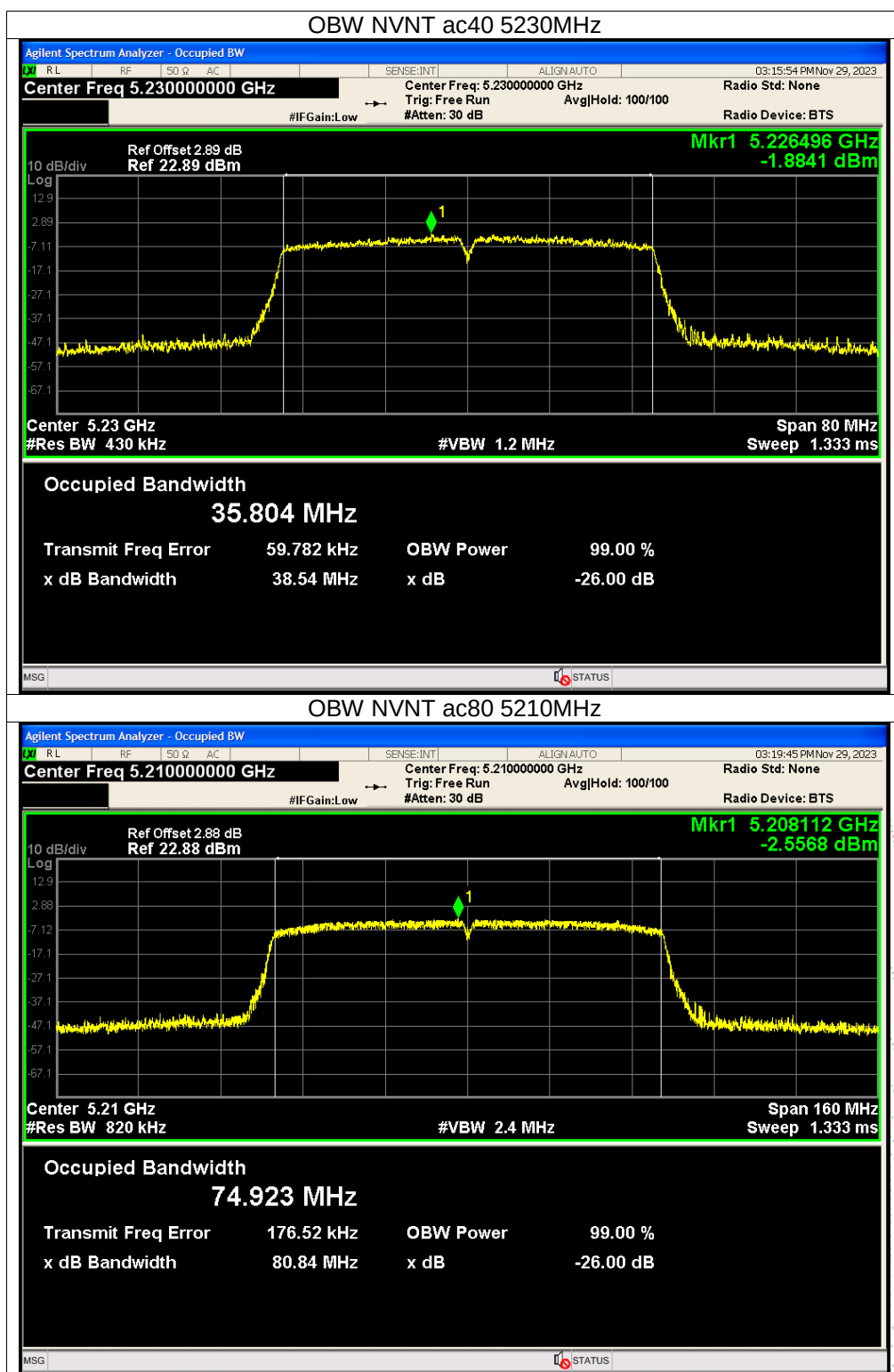










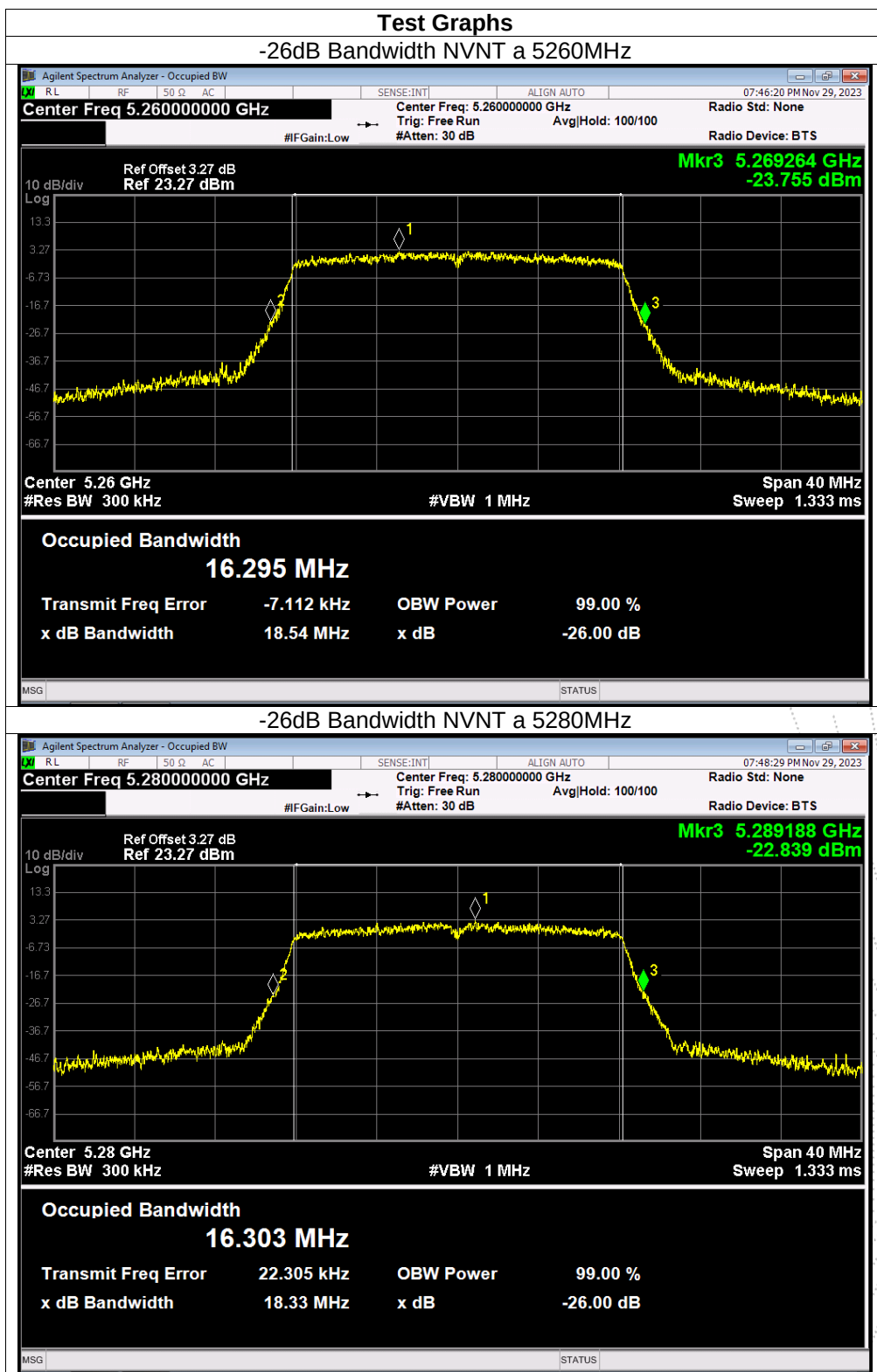


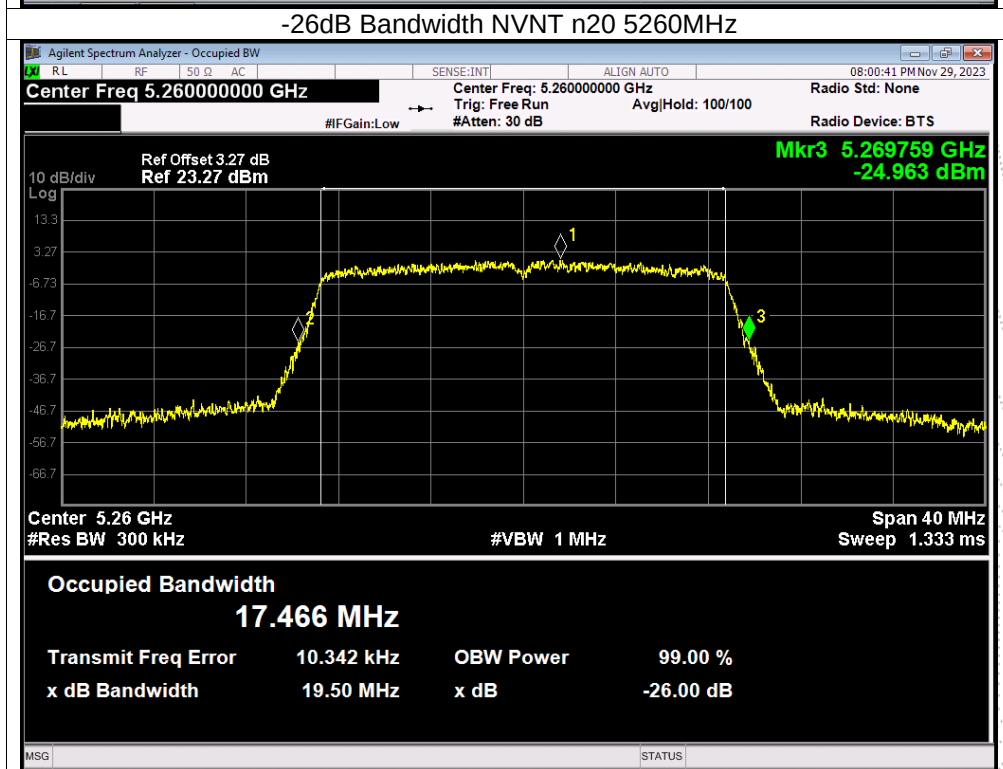
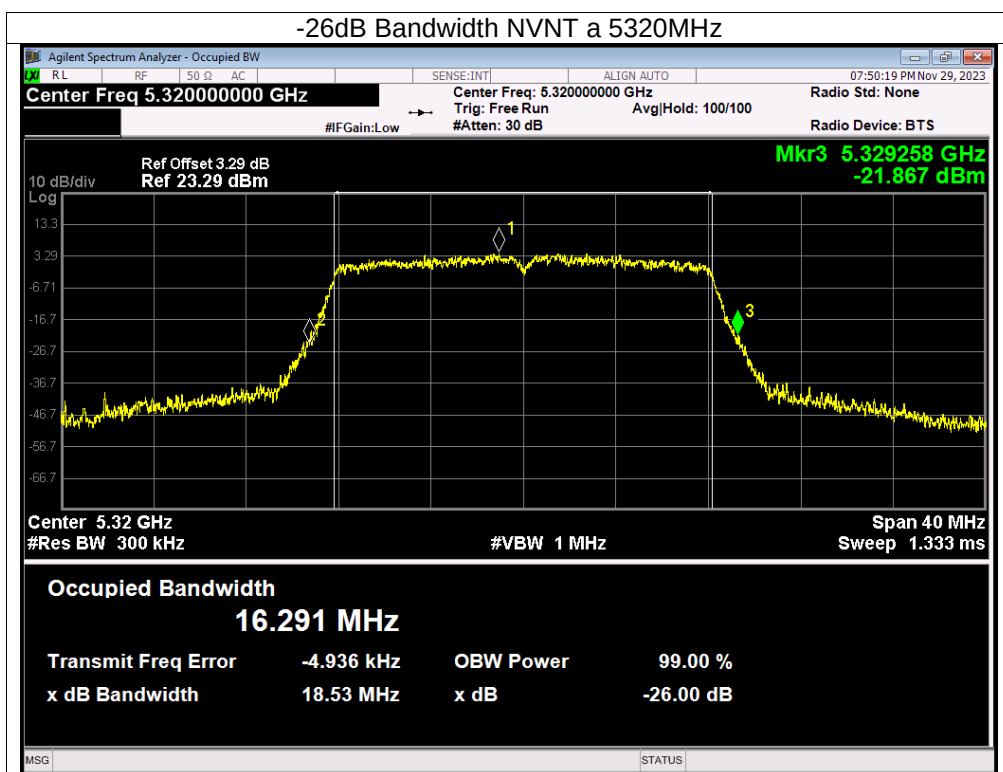
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5260-5320MHz)		

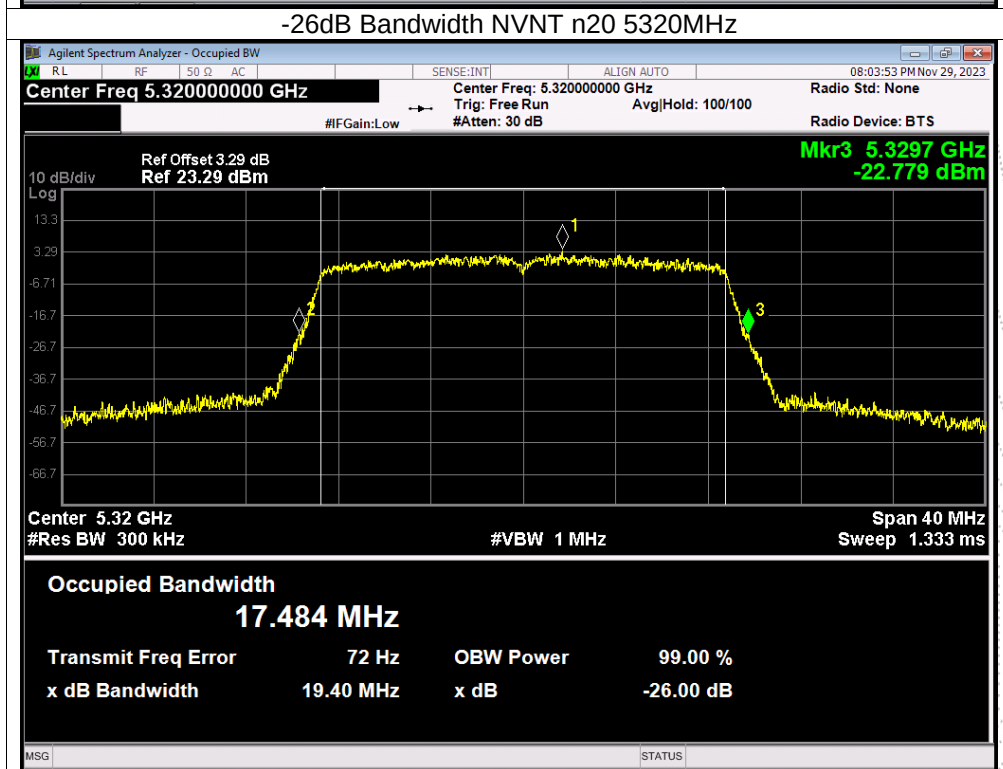
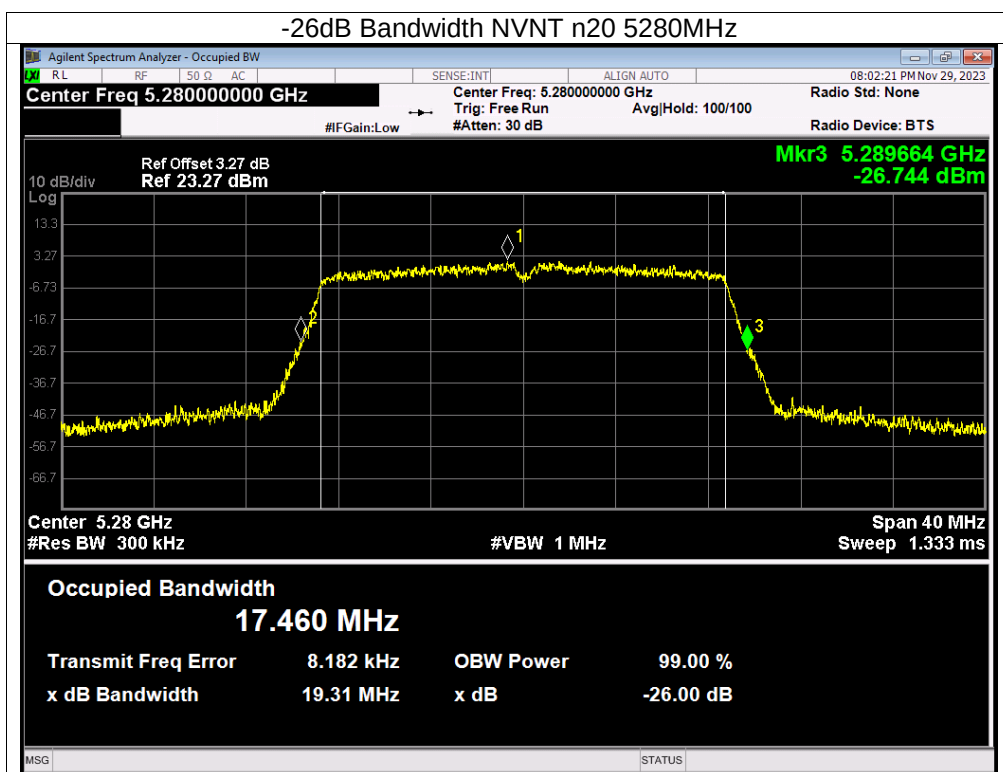
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		Verdict
			Ant A	Ant B	
NVNT	a	5260	18.44	18.541	Pass
NVNT	a	5280	18.658	18.332	Pass
NVNT	a	5320	18.327	18.526	Pass
NVNT	n20	5260	19.425	19.498	Pass
NVNT	n20	5280	19.404	19.312	Pass
NVNT	n20	5320	19.292	19.4	Pass
NVNT	n40	5270	39.714	39.76	Pass
NVNT	n40	5310	39.66	39.533	Pass
NVNT	ac20	5260	19.286	19.347	Pass
NVNT	ac20	5280	19.401	19.431	Pass
NVNT	ac20	5320	19.522	19.366	Pass
NVNT	ac40	5270	39.976	39.668	Pass
NVNT	ac40	5310	39.693	39.494	Pass
NVNT	ac80	5290	81.156	82.025	Pass

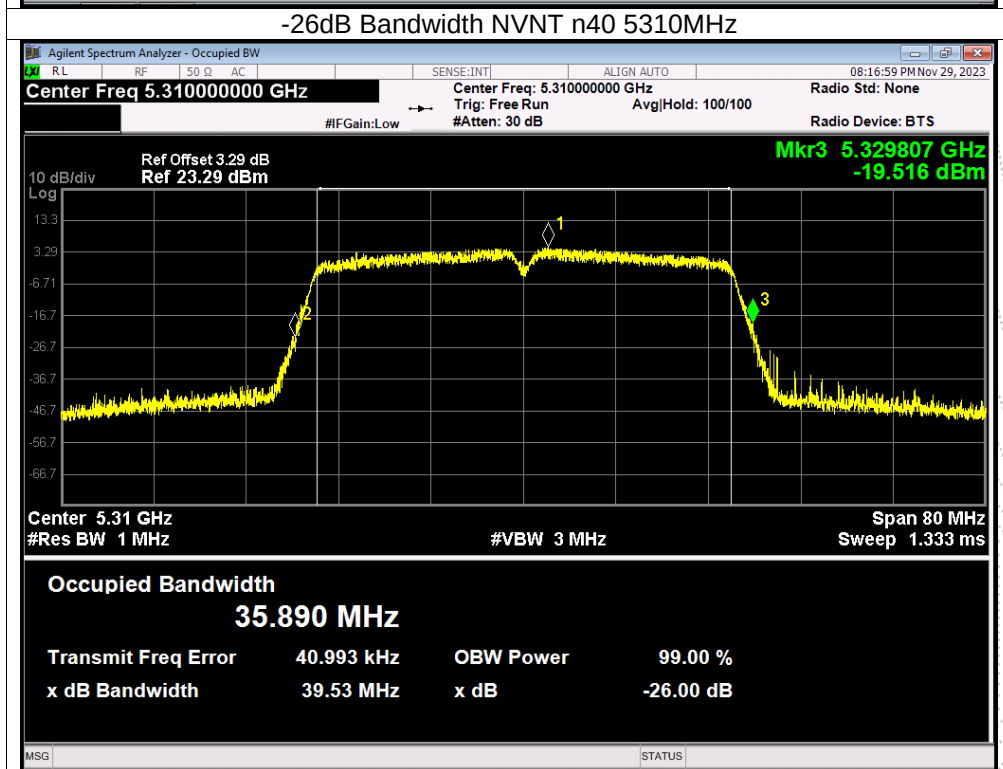
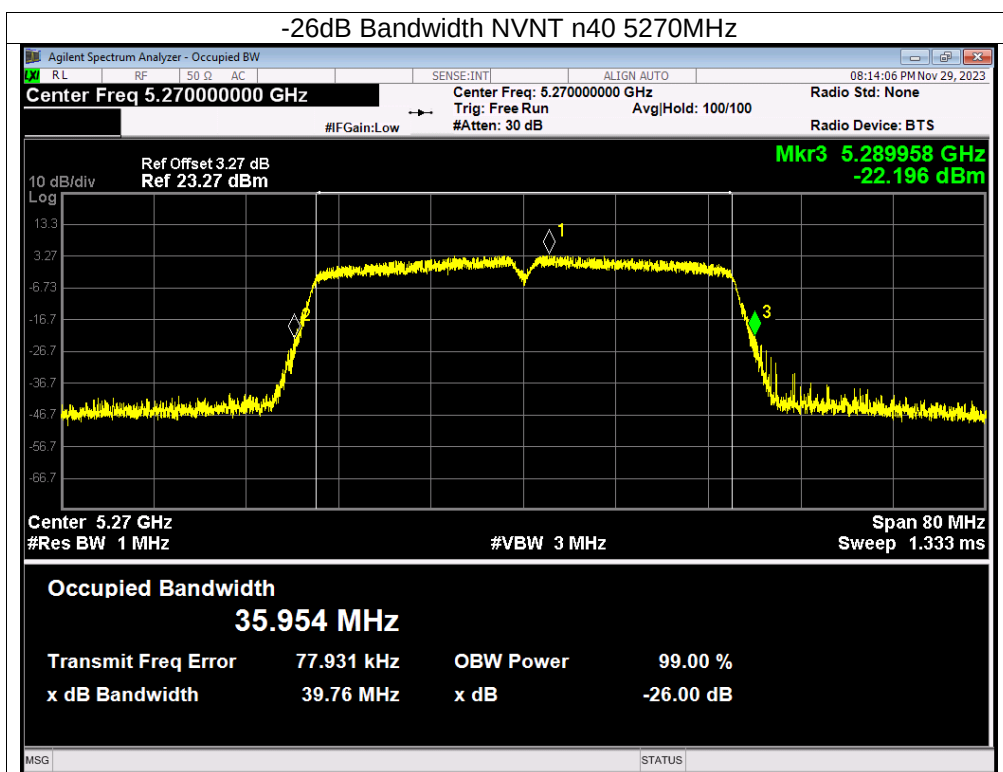
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	
			Ant A	Ant B
NVNT	a	5260	16.273	16.268
NVNT	a	5280	16.266	16.256
NVNT	a	5320	16.273	16.265
NVNT	n20	5260	17.45	17.439
NVNT	n20	5280	17.453	17.432
NVNT	n20	5320	17.462	17.452
NVNT	n40	5270	35.919	35.839
NVNT	n40	5310	35.794	35.813
NVNT	ac20	5260	17.461	17.461
NVNT	ac20	5280	17.444	17.432
NVNT	ac20	5320	17.455	17.451
NVNT	ac40	5270	35.823	35.897
NVNT	ac40	5310	35.786	35.785
NVNT	ac80	5290	74.726	75.071

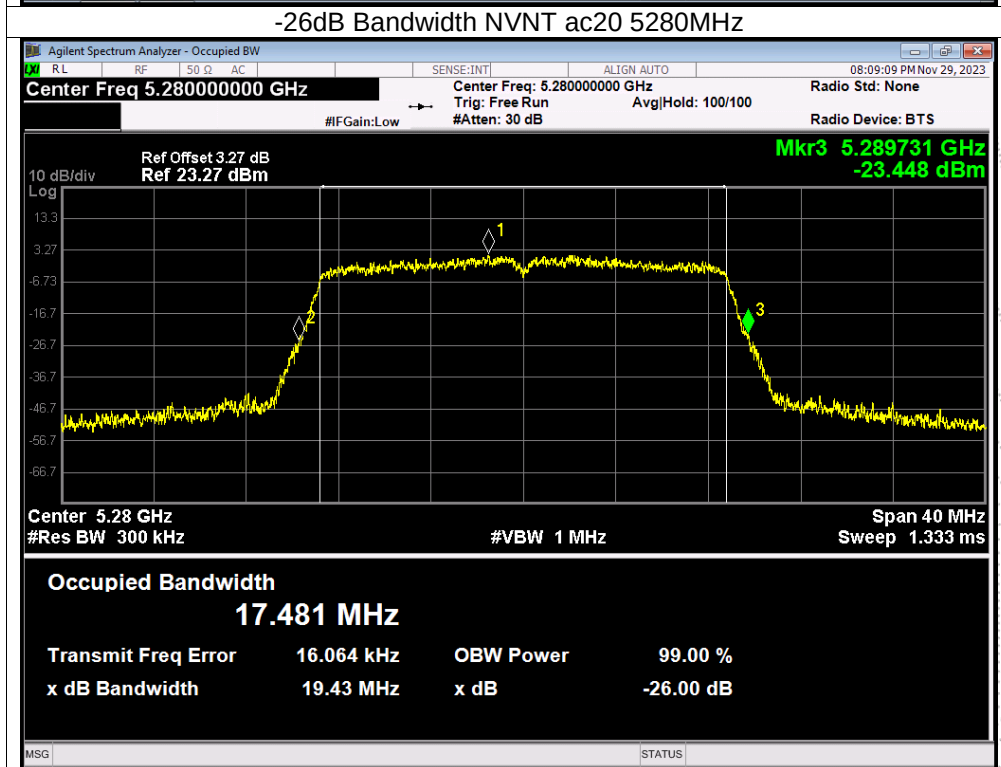
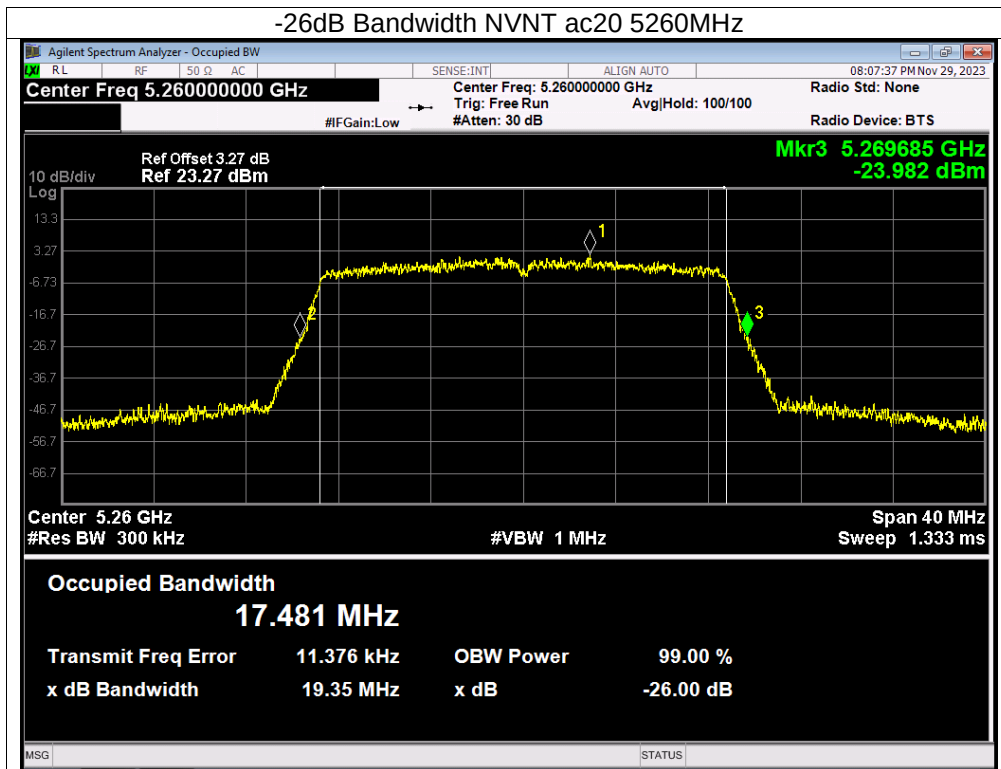
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

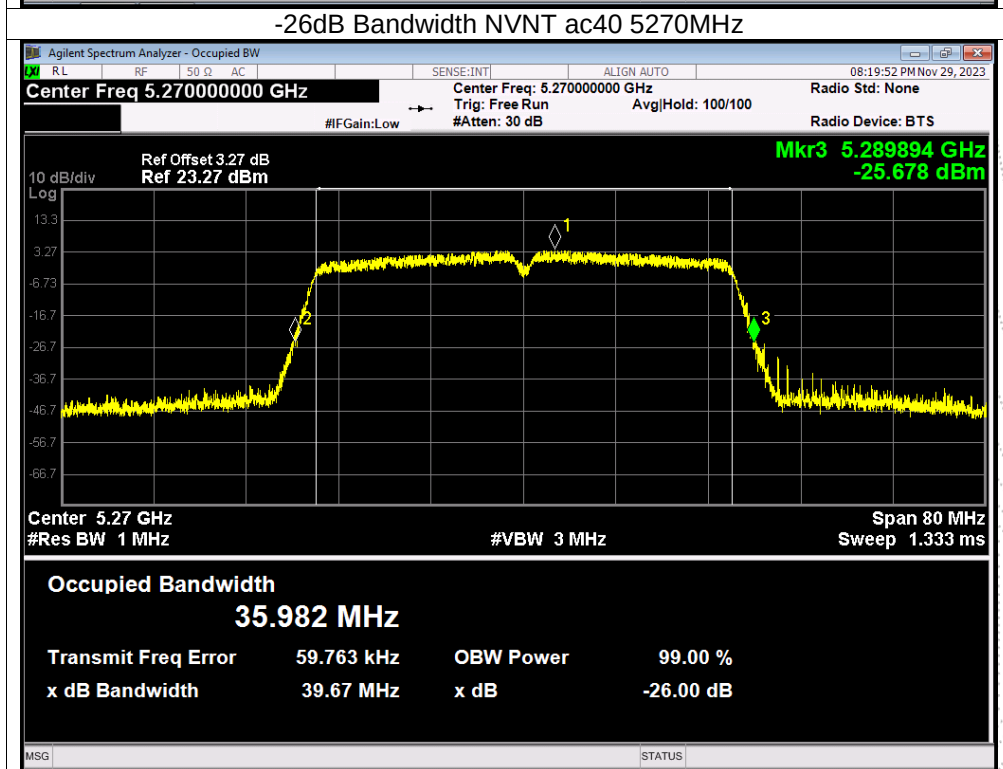
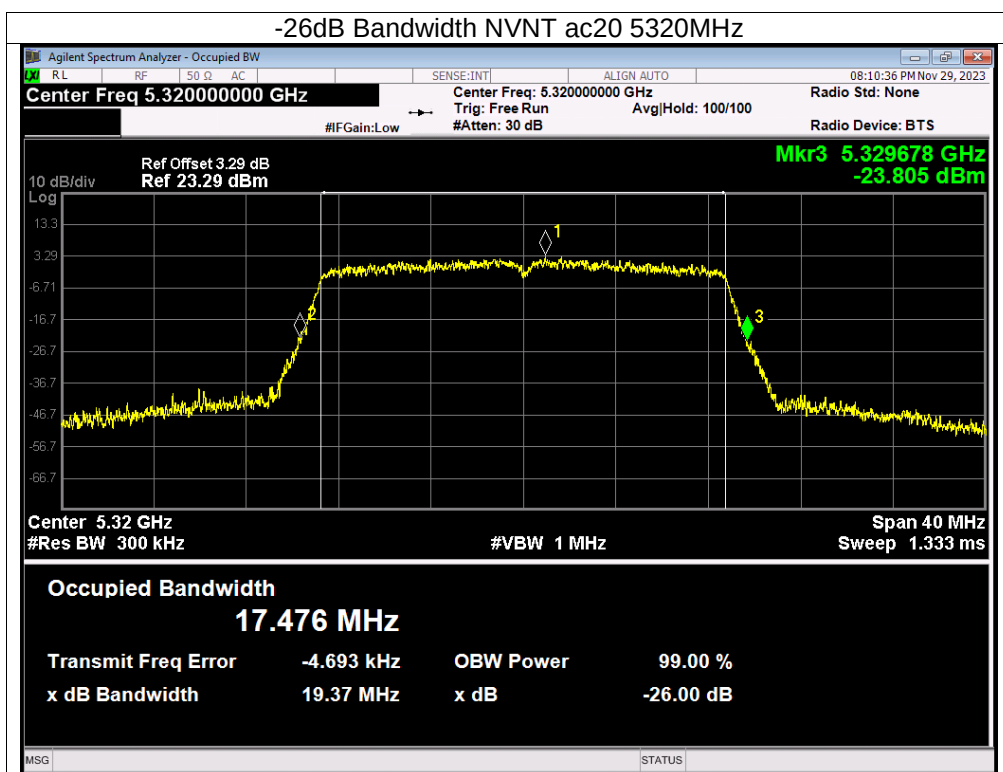


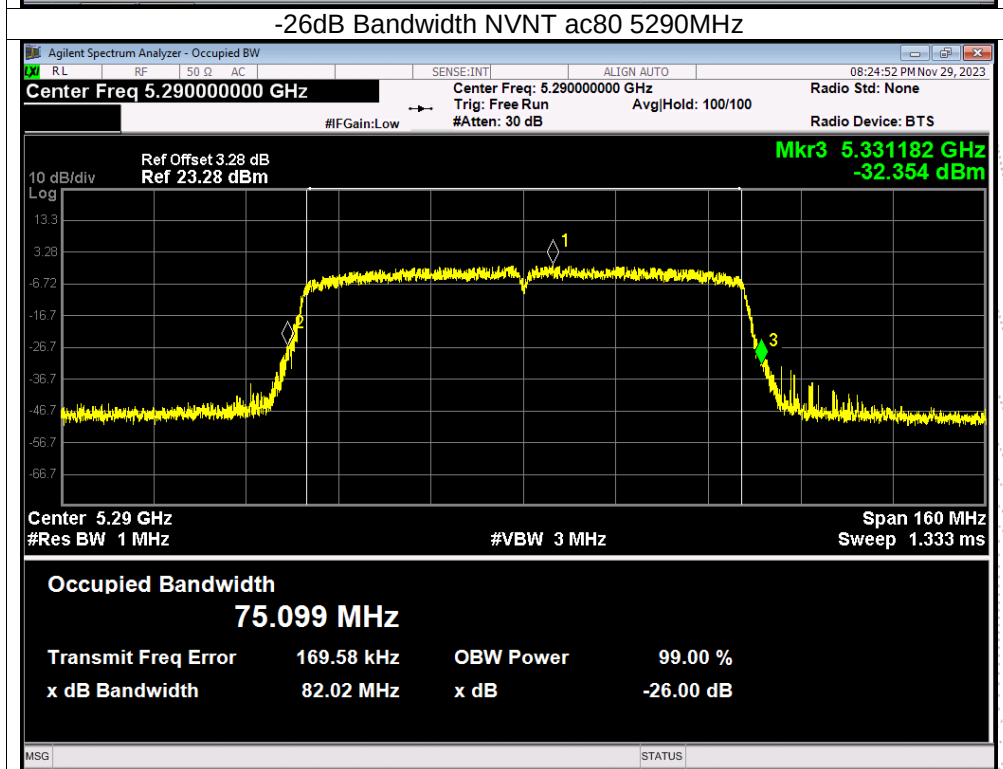
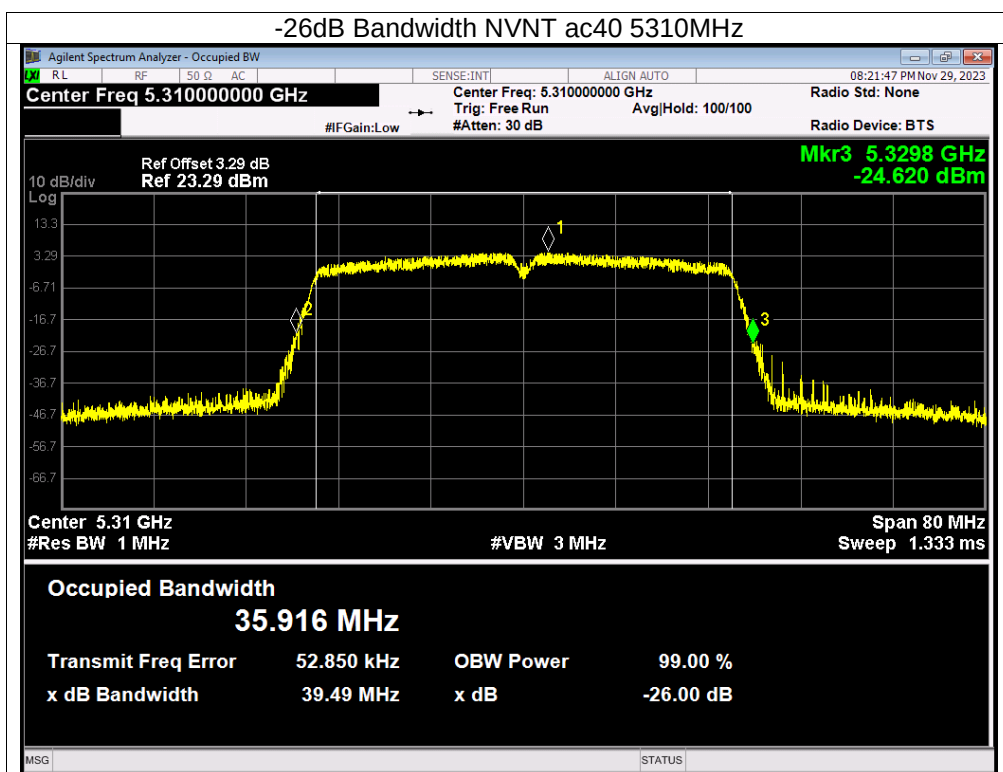




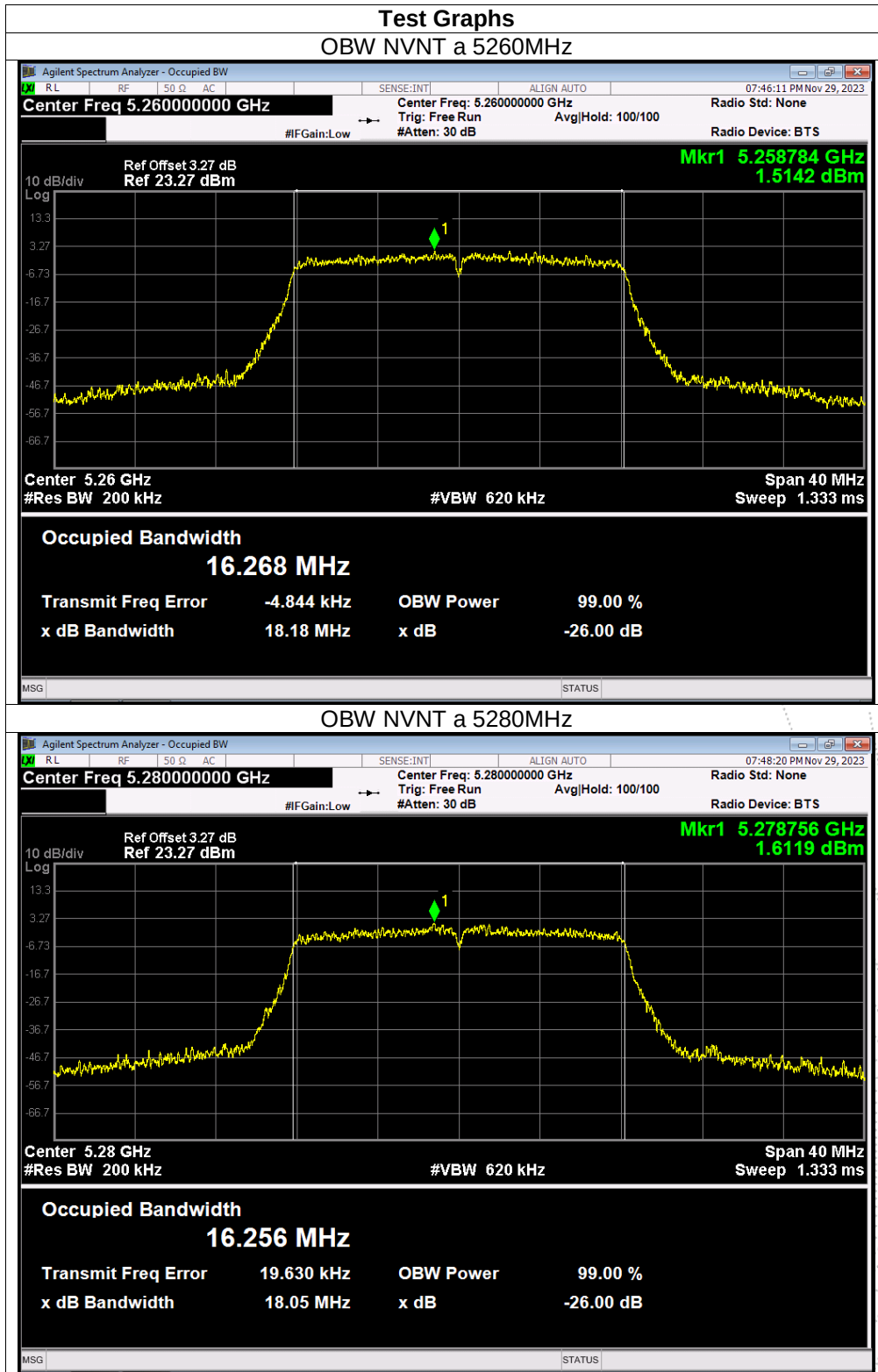


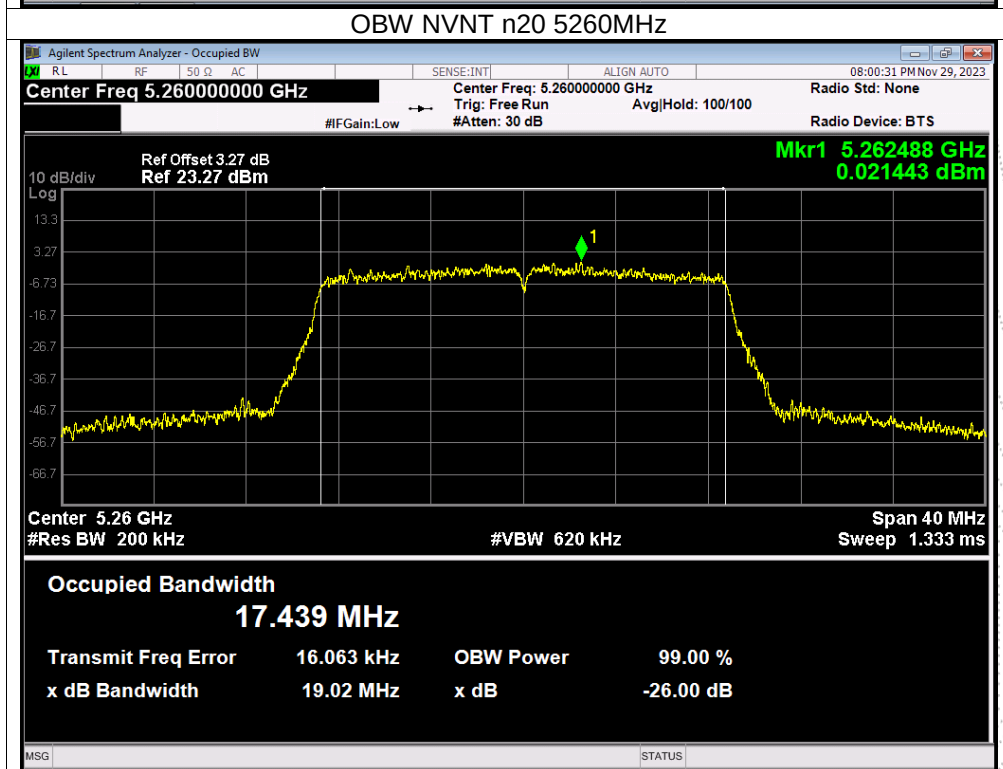
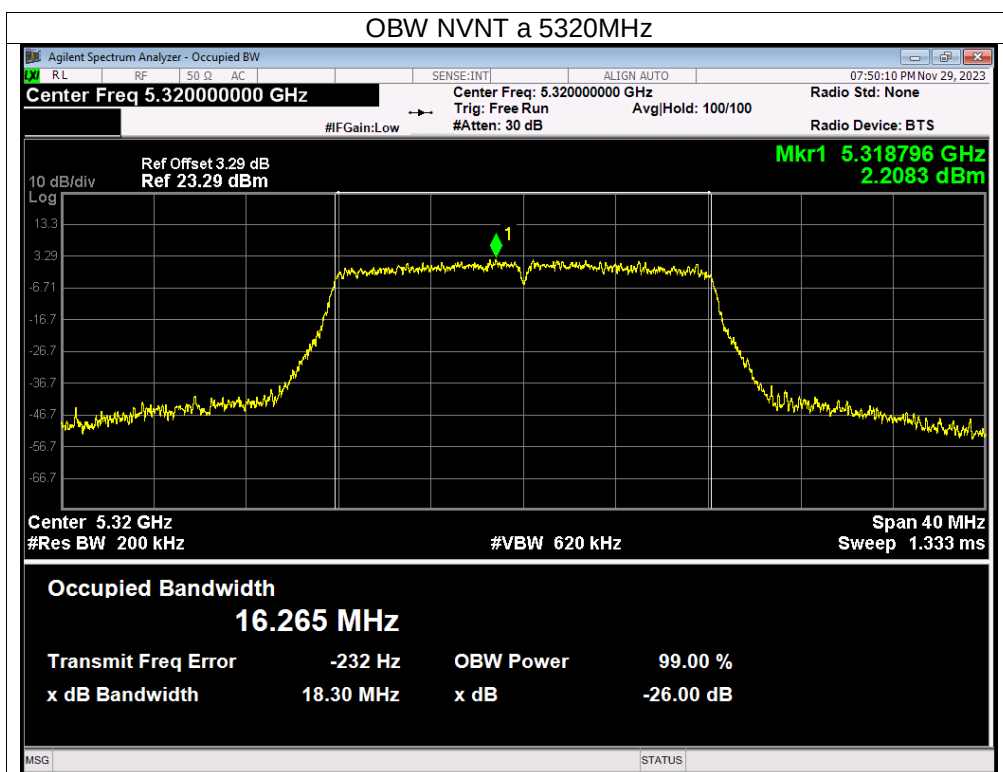


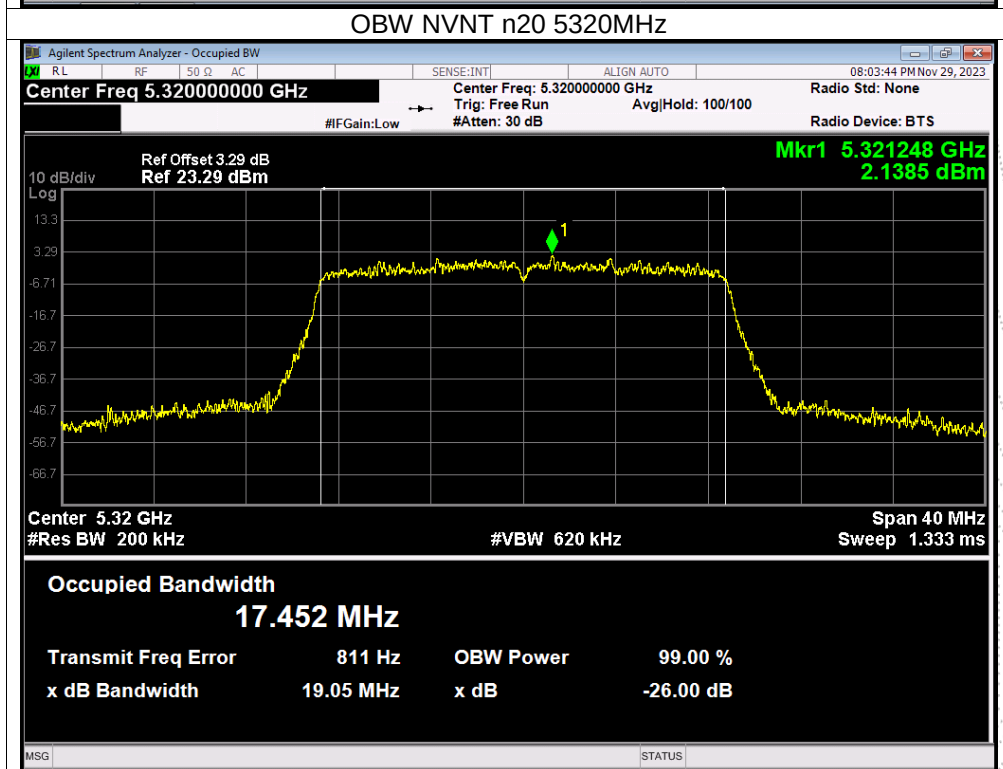
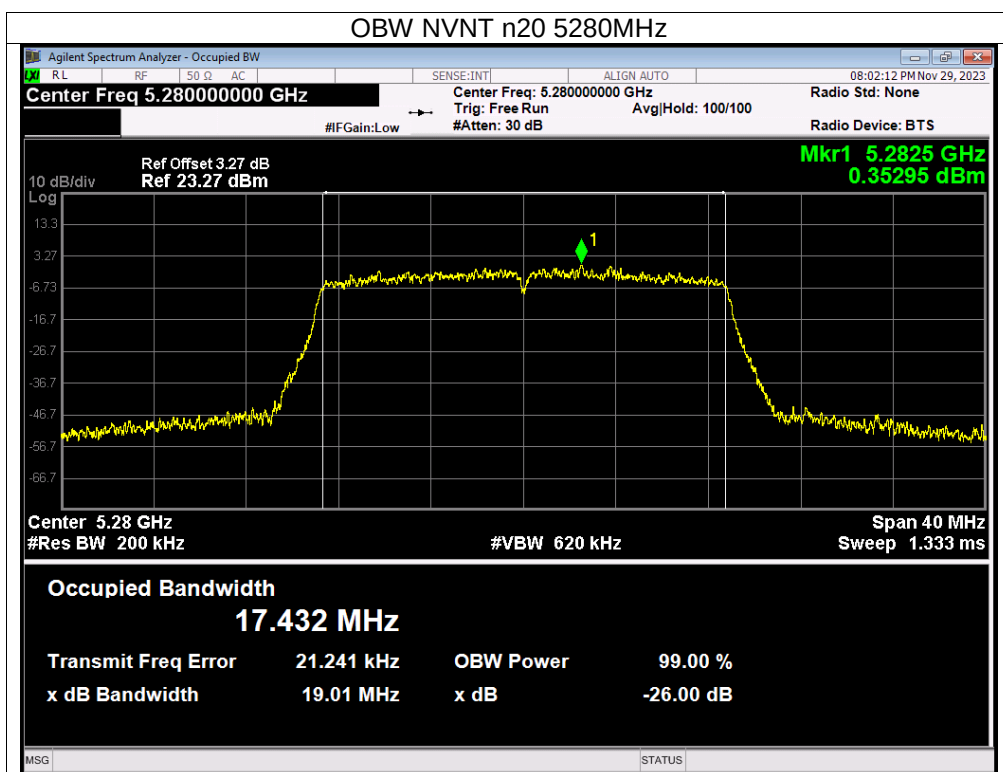


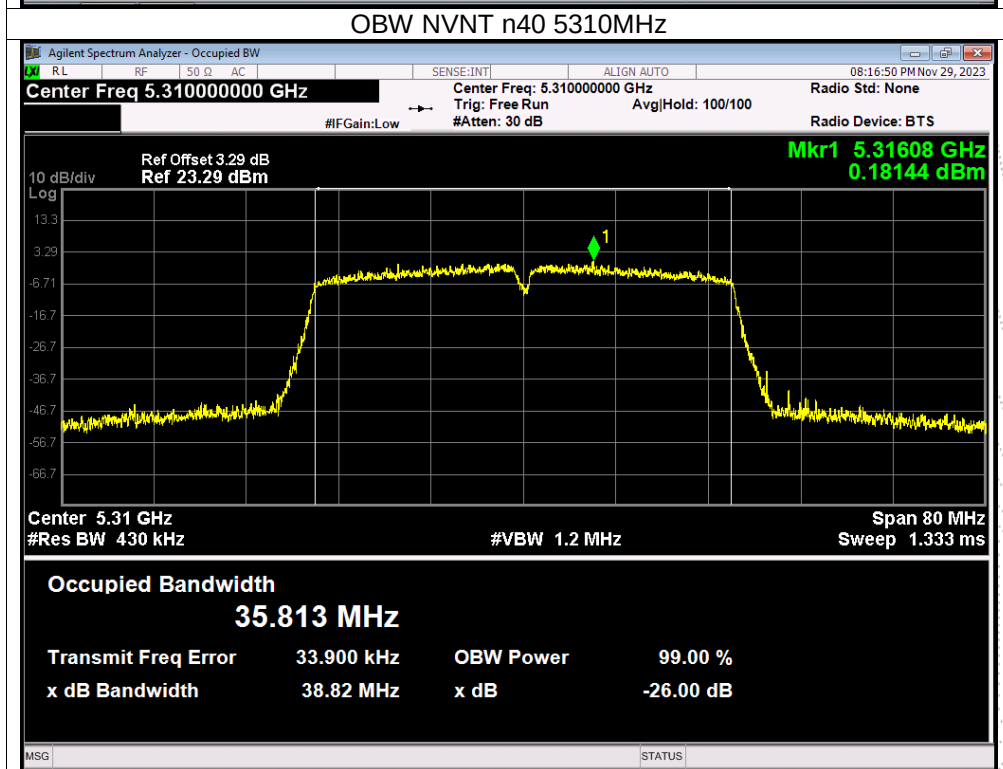
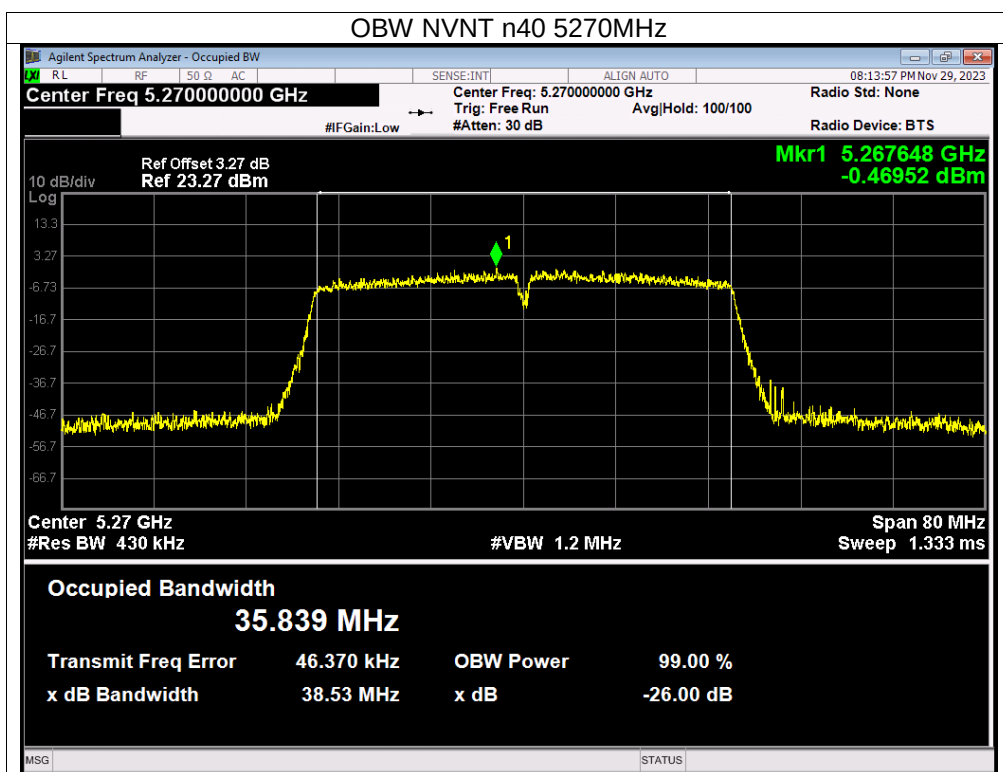


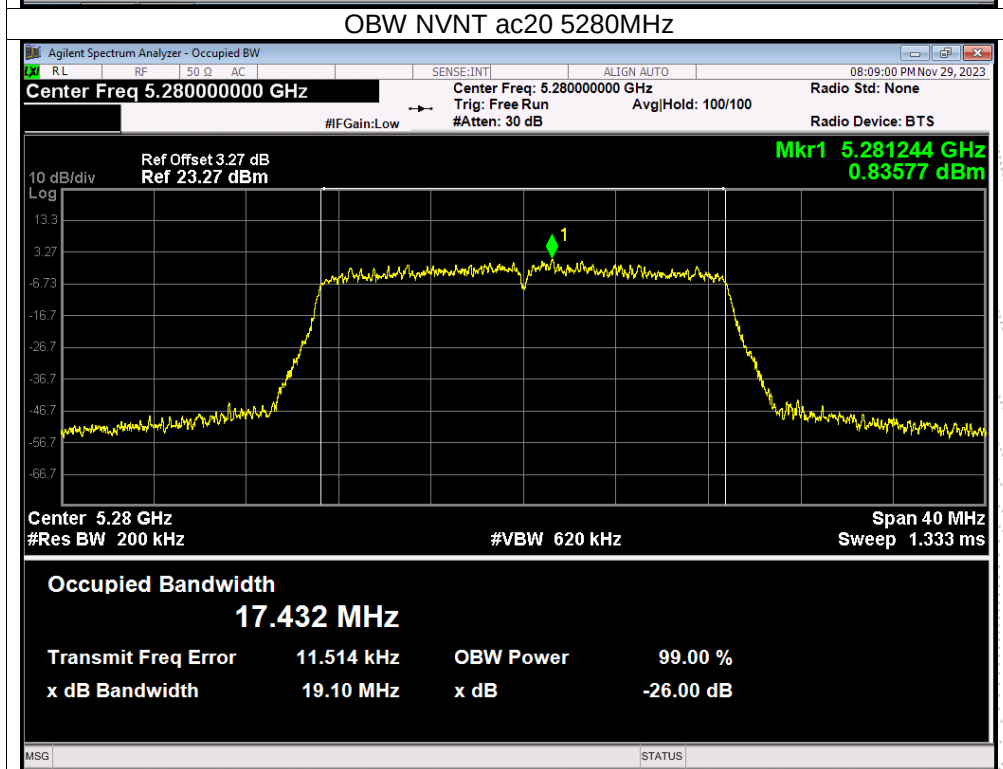
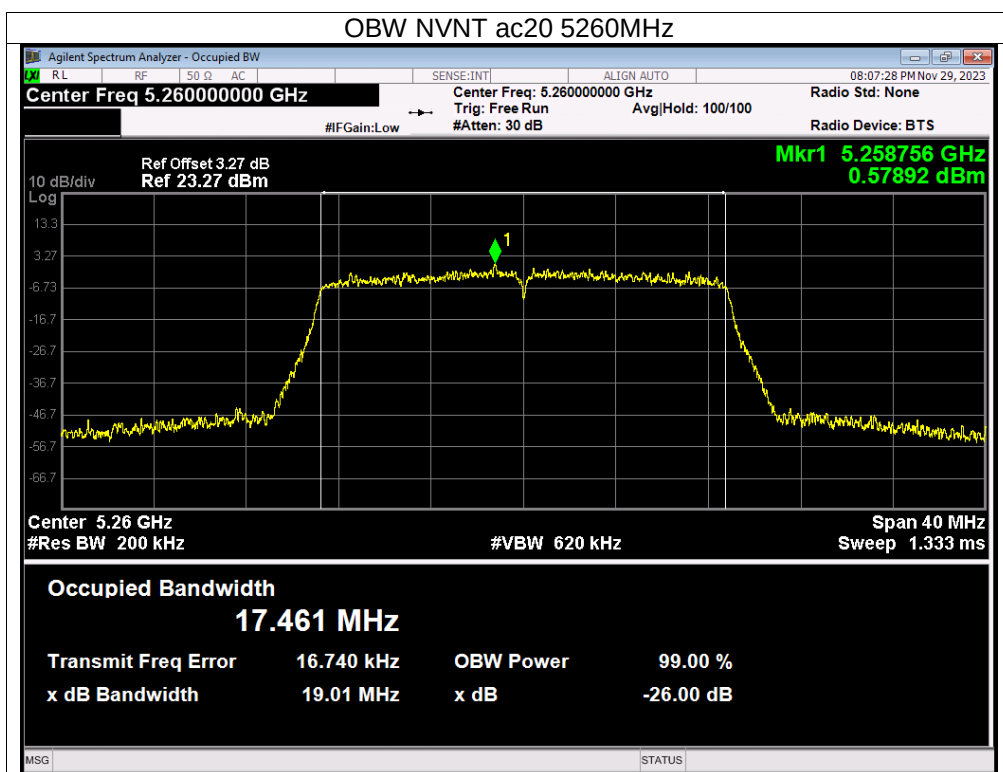
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

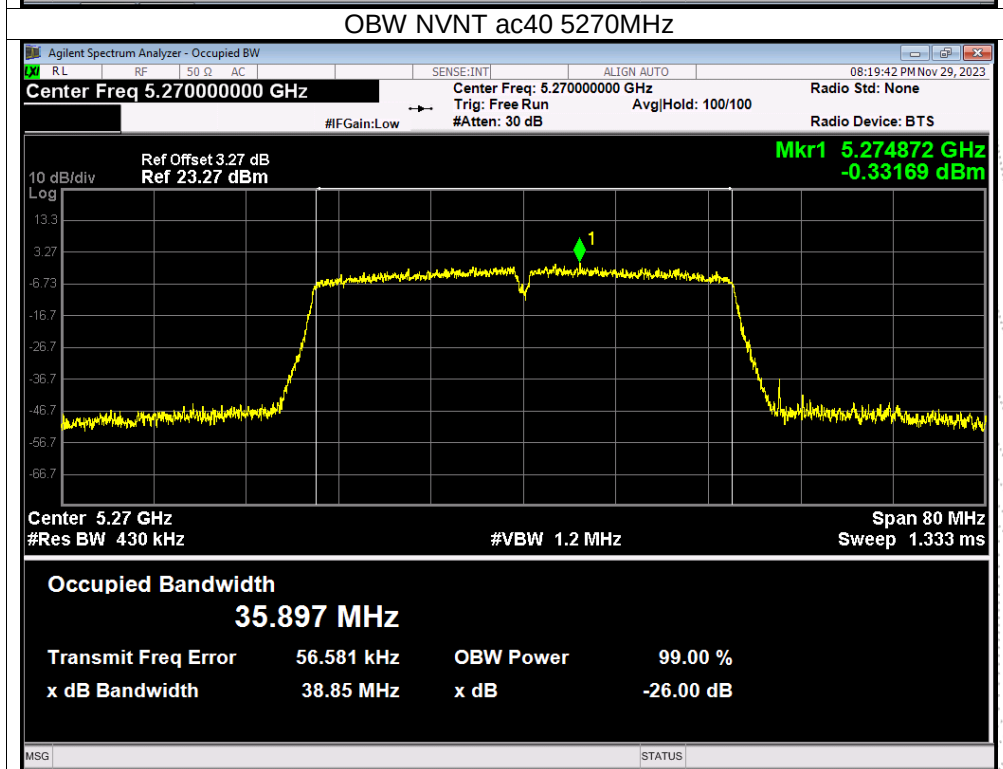
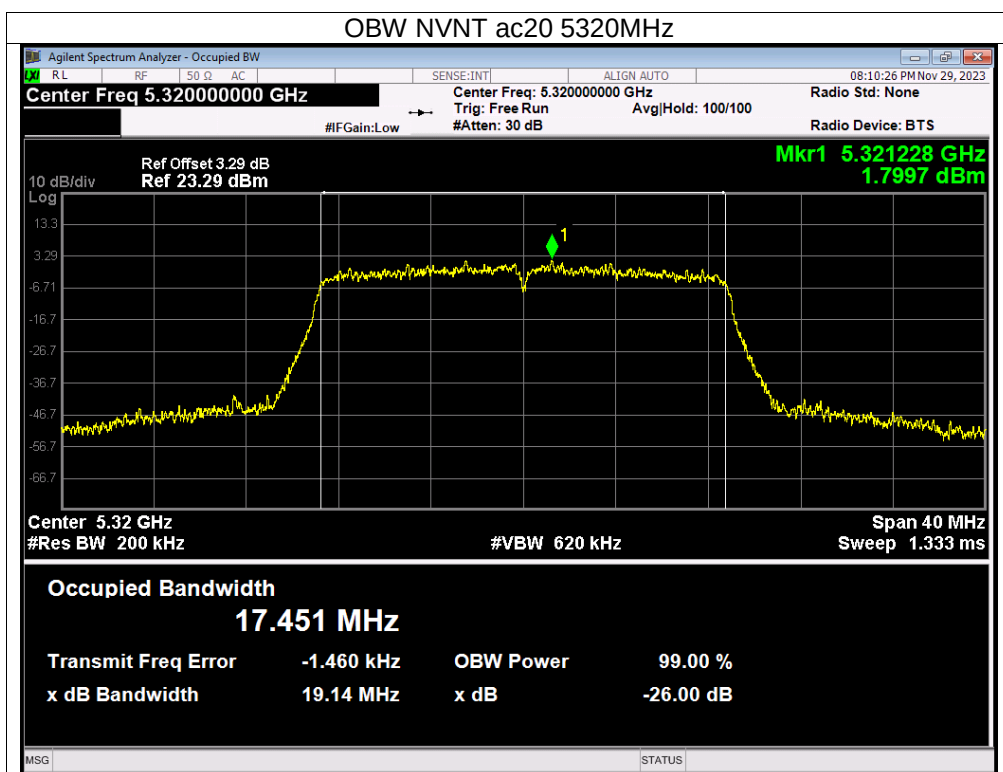


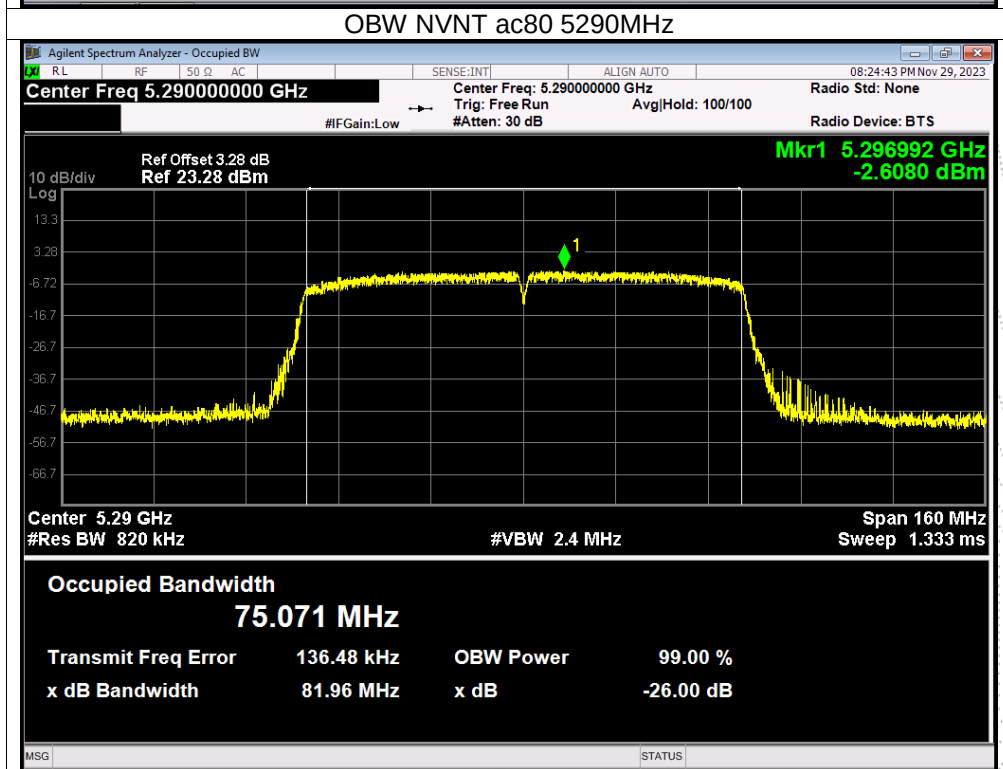
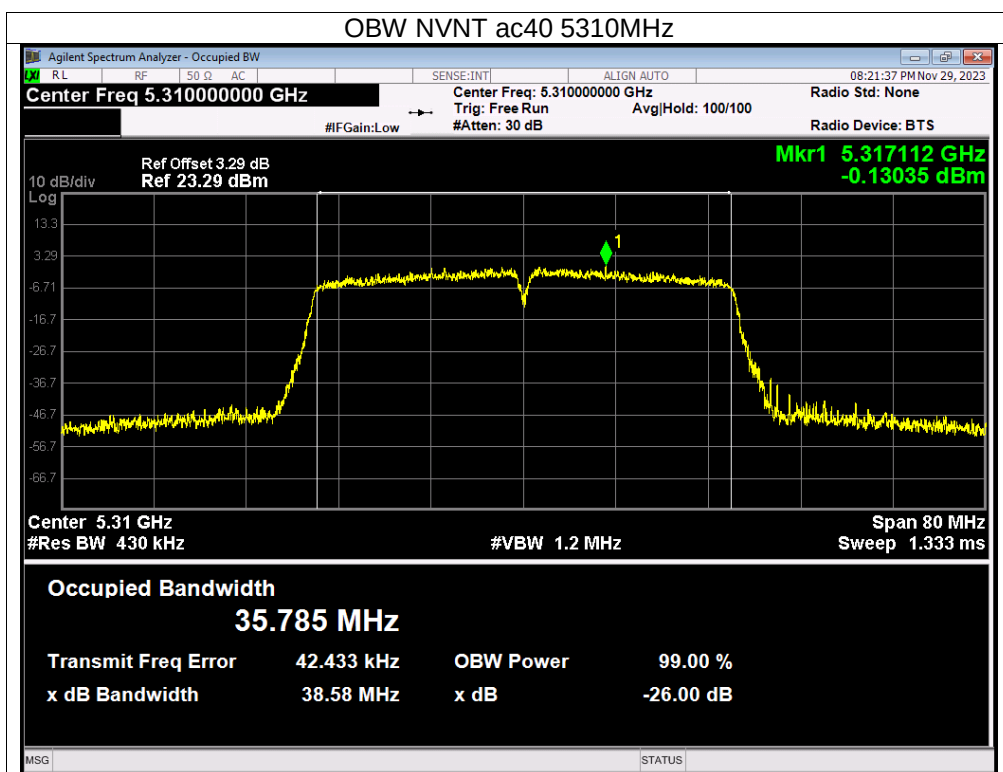










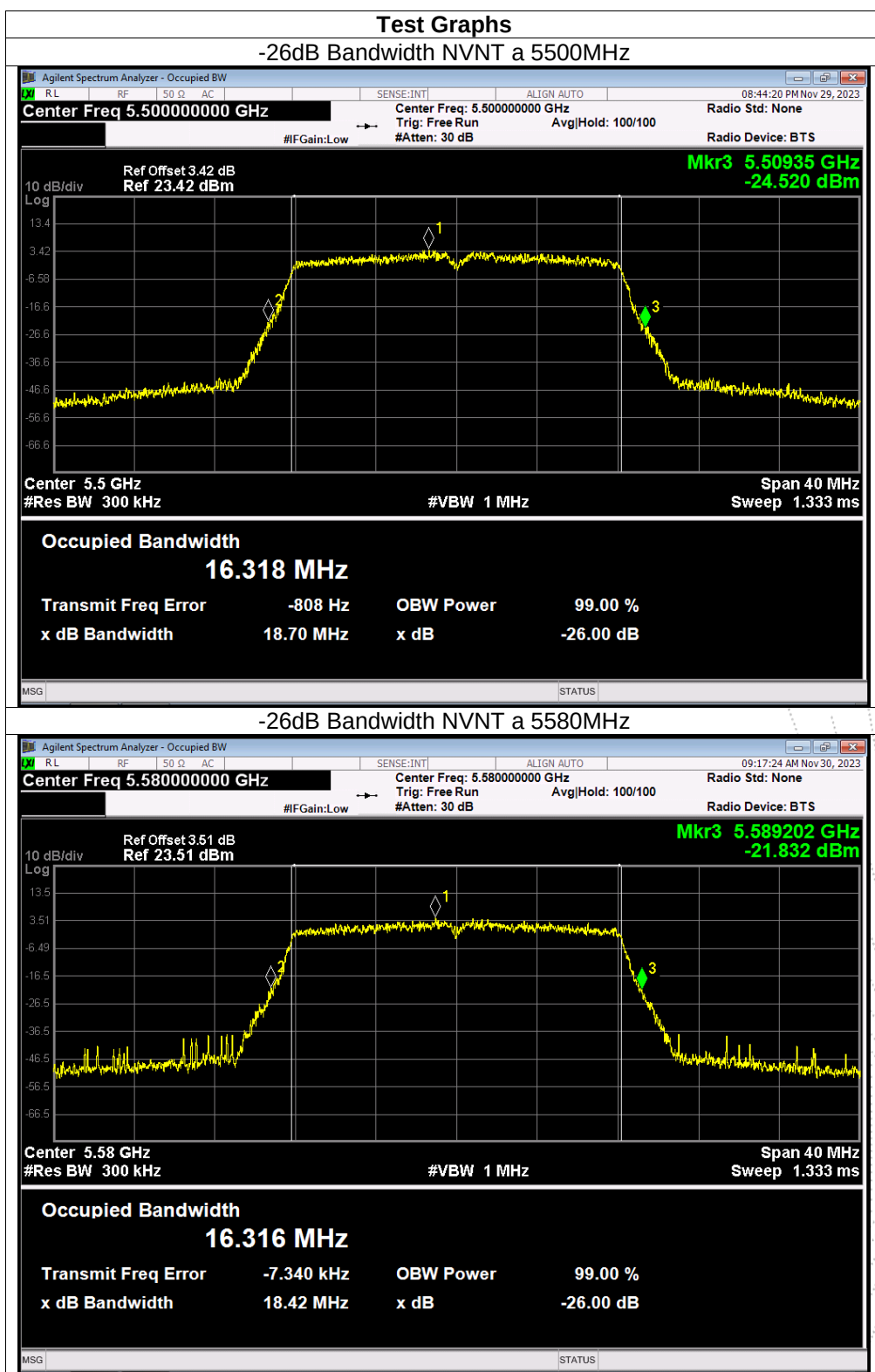


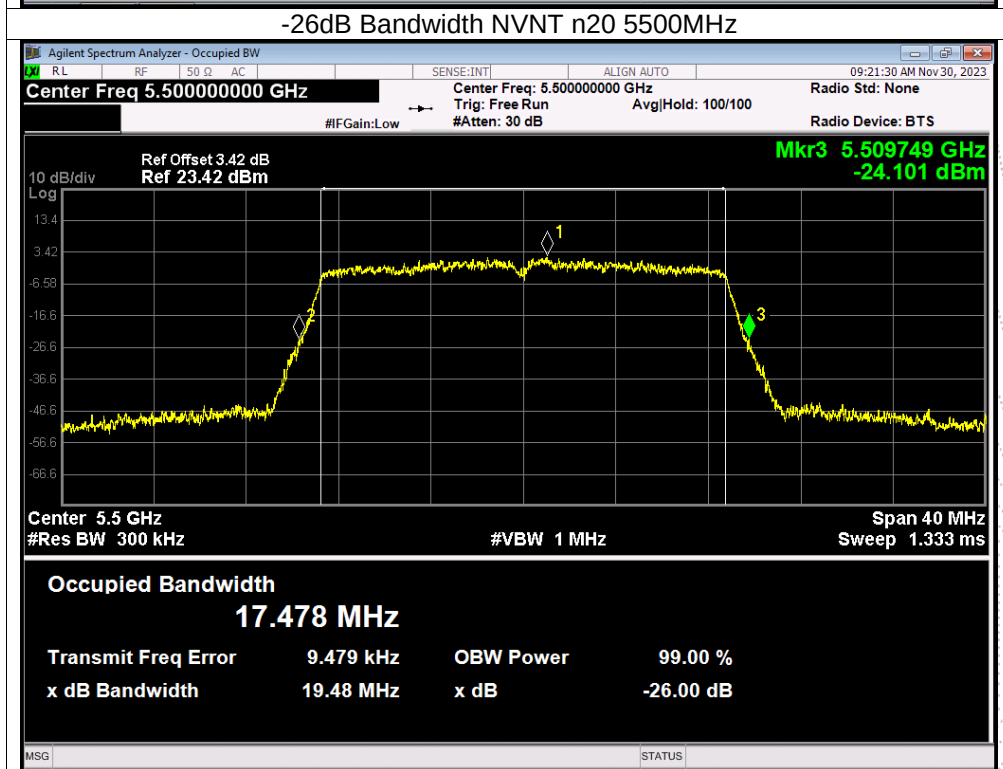
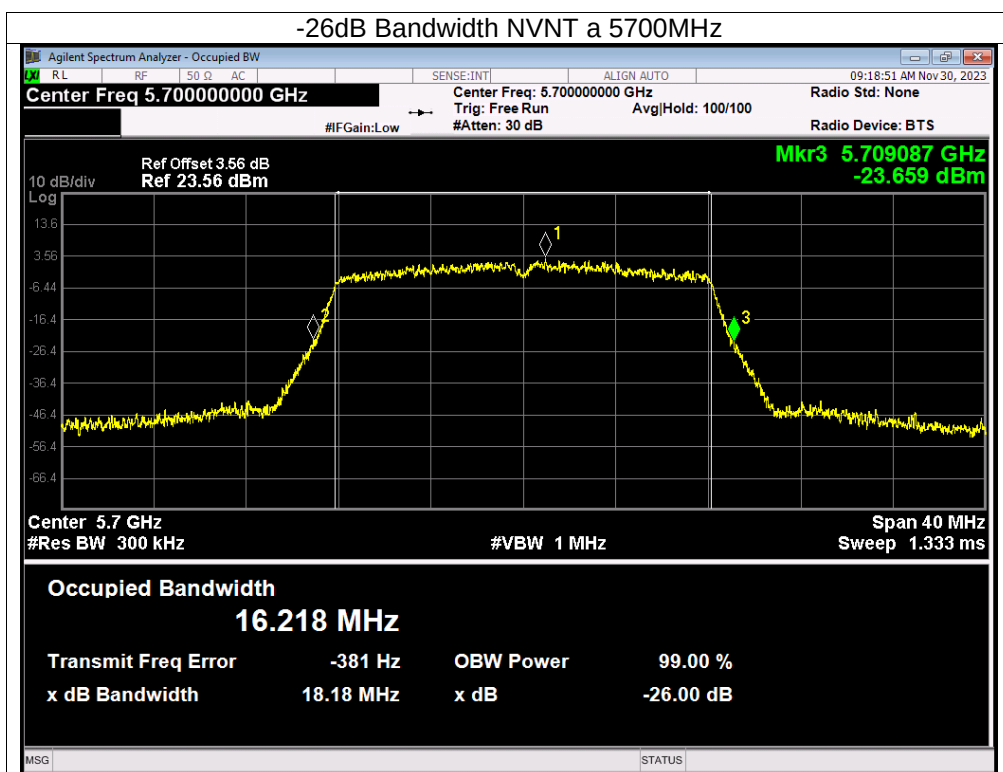
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5500-5700MHz)		

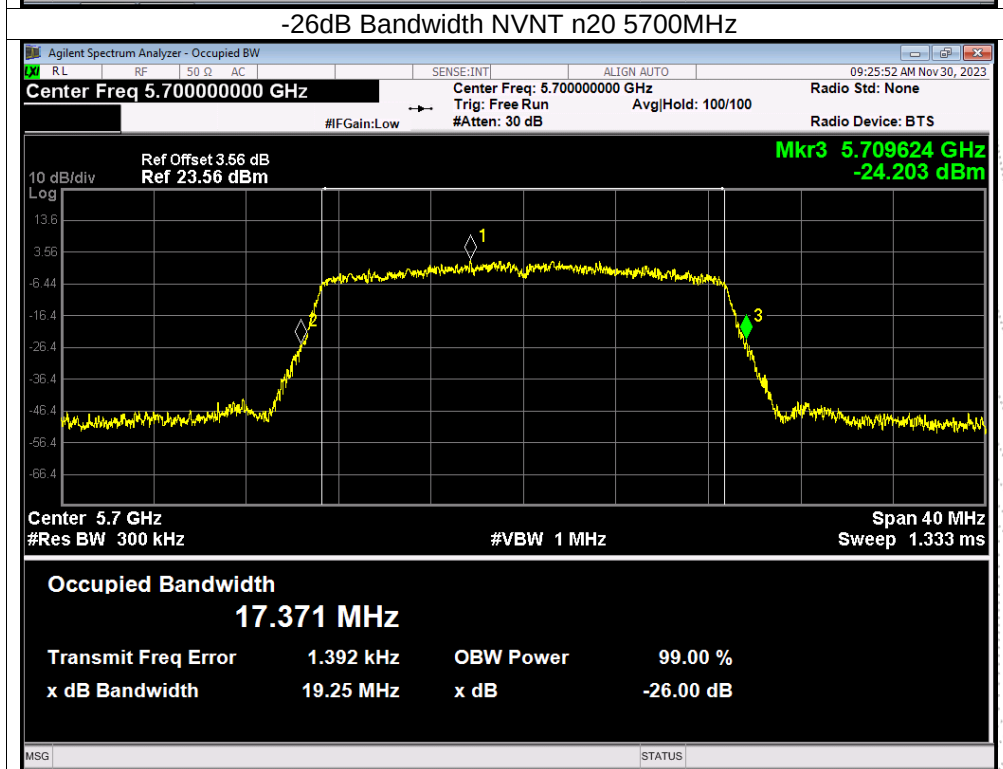
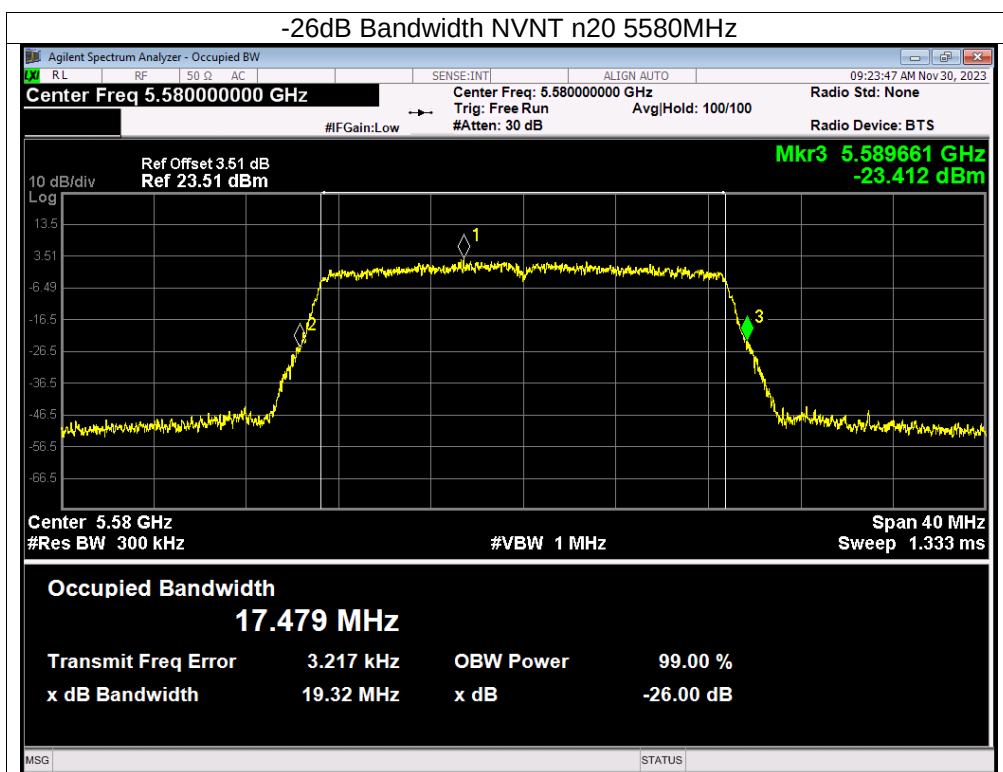
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)		Verdict
			Ant A	Ant B	
NVNT	a	5500	18.064	18.702	Pass
NVNT	a	5580	18.58	18.419	Pass
NVNT	a	5700	24.049	18.175	Pass
NVNT	n20	5500	19.291	19.479	Pass
NVNT	n20	5580	19.379	19.315	Pass
NVNT	n20	5700	19.234	19.246	Pass
NVNT	n40	5510	39.672	39.812	Pass
NVNT	n40	5550	39.739	39.734	Pass
NVNT	n40	5670	39.539	39.374	Pass
NVNT	ac20	5500	19.378	19.503	Pass
NVNT	ac20	5580	19.314	19.439	Pass
NVNT	ac20	5700	19.131	19.202	Pass
NVNT	ac40	5510	39.796	39.806	Pass
NVNT	ac40	5550	39.809	39.567	Pass
NVNT	ac40	5670	39.371	39.55	Pass
NVNT	ac80	5530	79.11	79.299	Pass

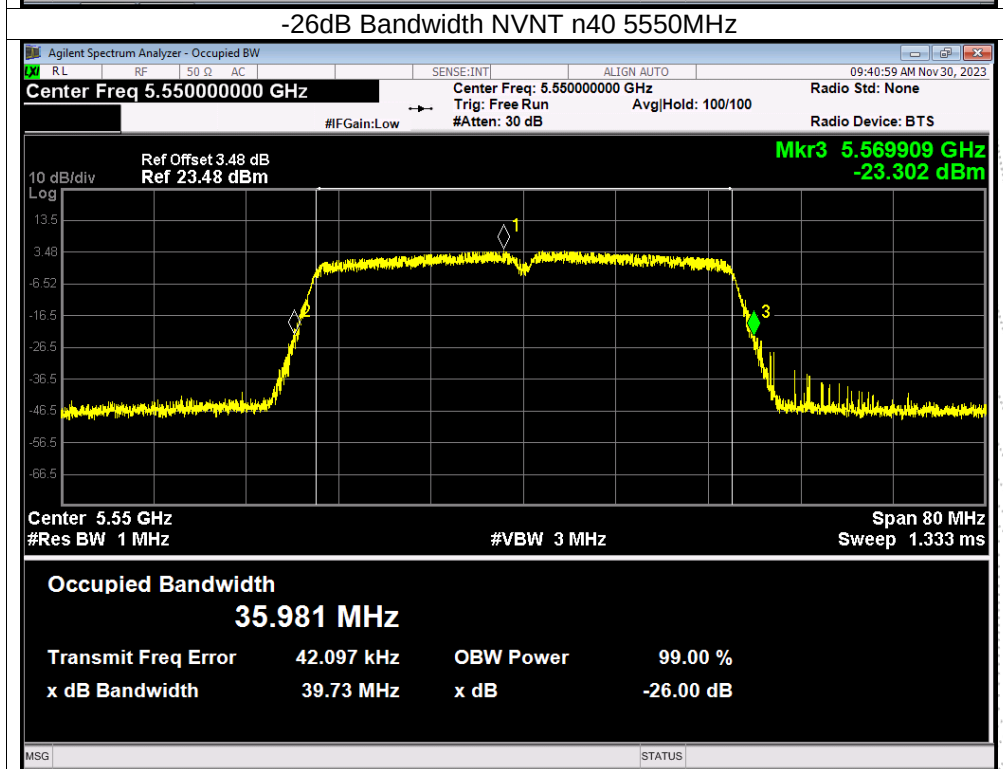
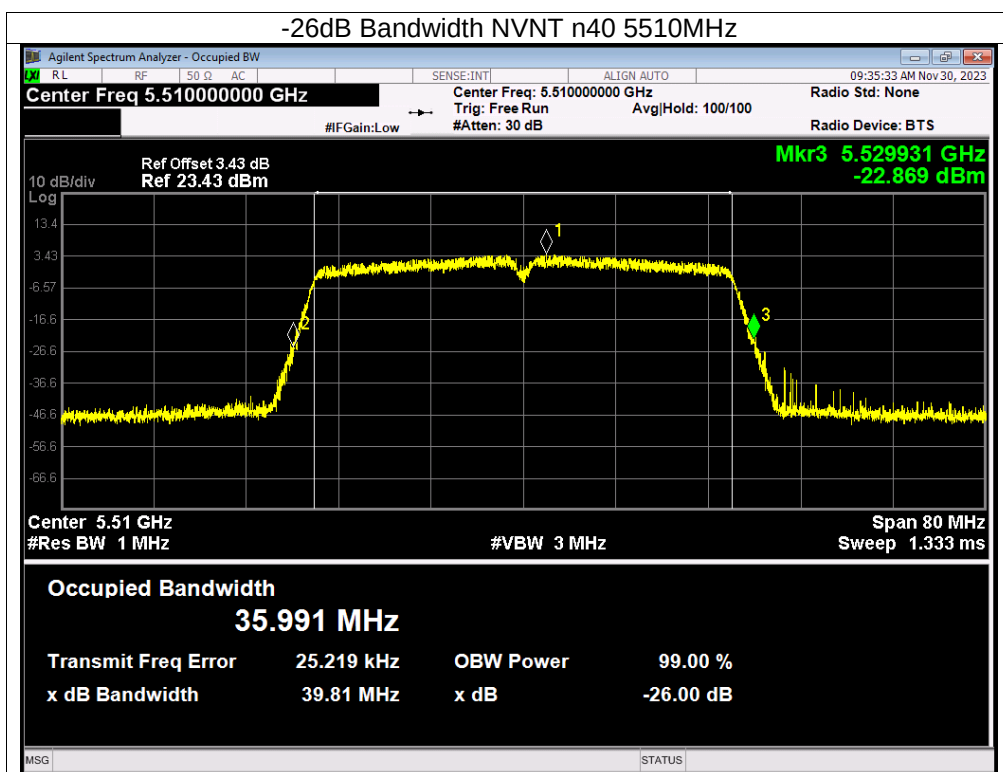
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	
			Ant A	Ant B
NVNT	a	5500	16.135	16.291
NVNT	a	5580	16.273	16.294
NVNT	a	5700	16.382	16.204
NVNT	n20	5500	17.466	17.46
NVNT	n20	5580	17.461	17.461
NVNT	n20	5700	17.362	17.351
NVNT	n40	5510	35.877	35.87
NVNT	n40	5550	35.885	35.908
NVNT	n40	5670	35.712	35.705
NVNT	ac20	5500	17.45	17.459
NVNT	ac20	5580	17.442	17.45
NVNT	ac20	5700	17.338	17.361
NVNT	ac40	5510	35.853	35.86
NVNT	ac40	5550	35.843	35.859
NVNT	ac40	5670	35.611	35.703
NVNT	ac80	5530	74.787	74.699

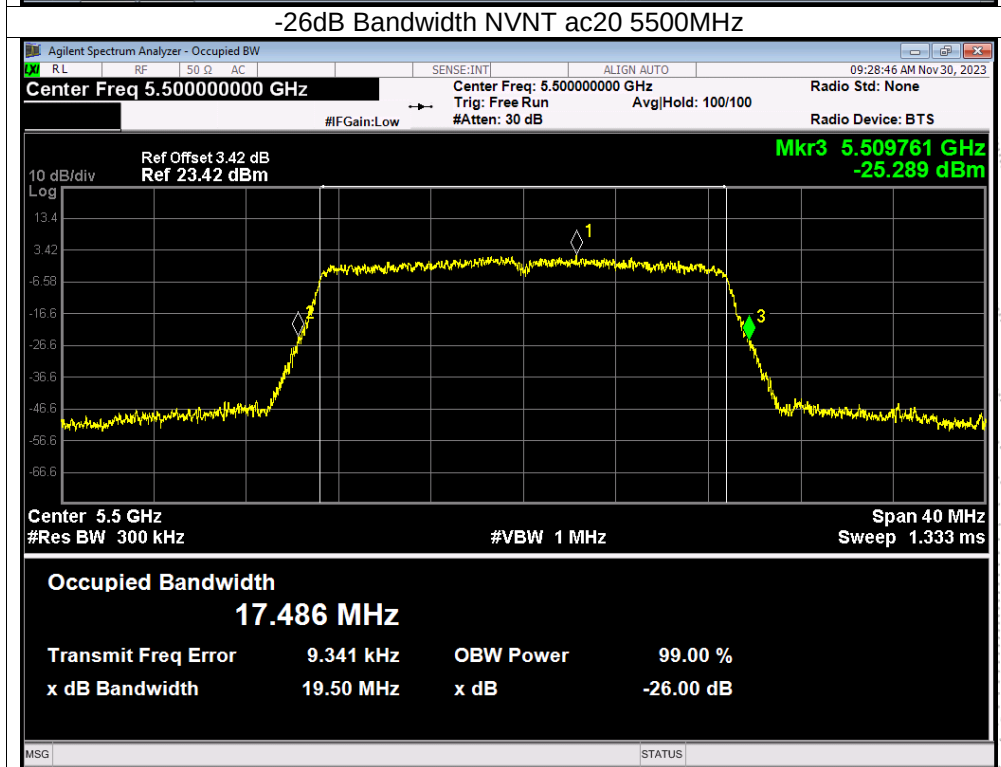
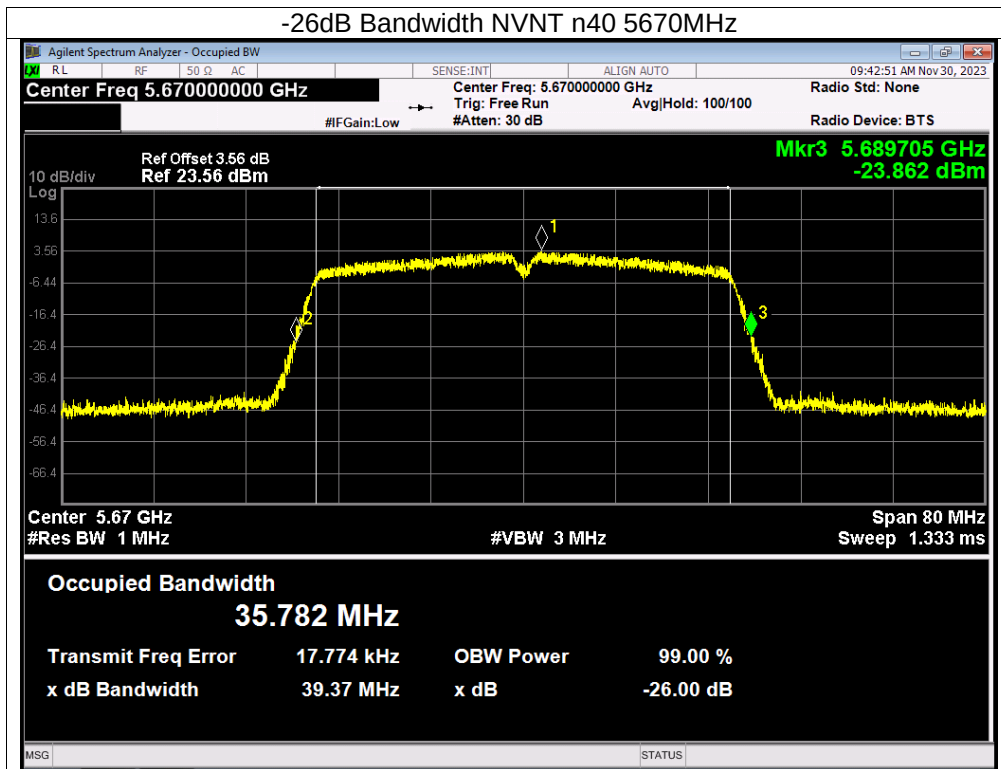
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

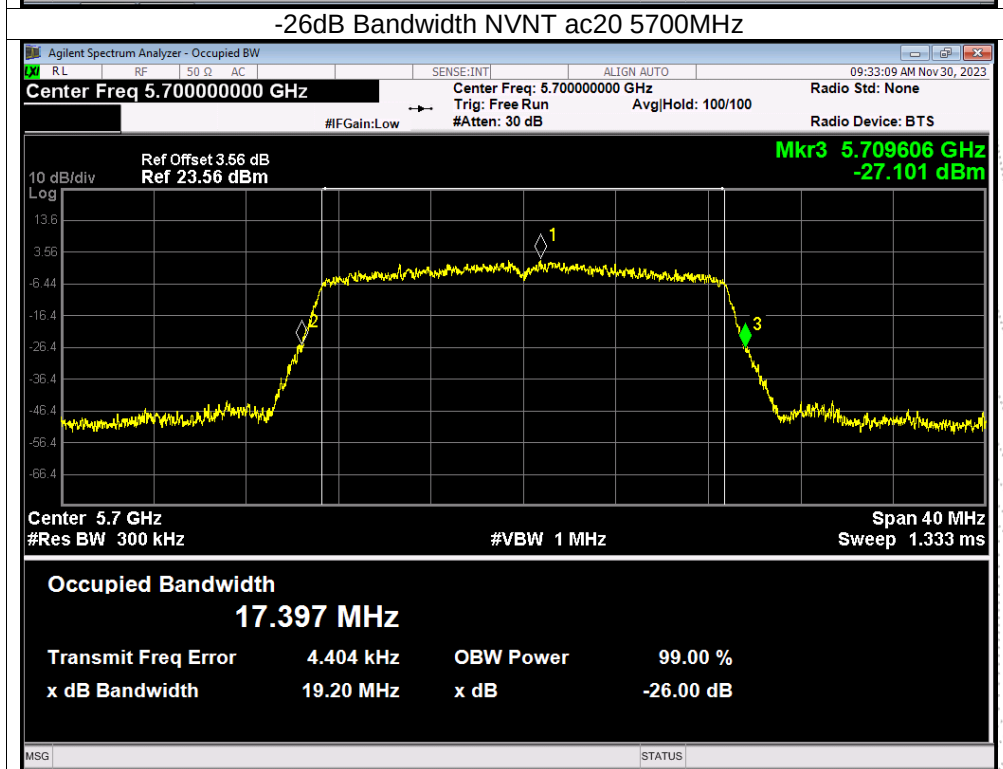
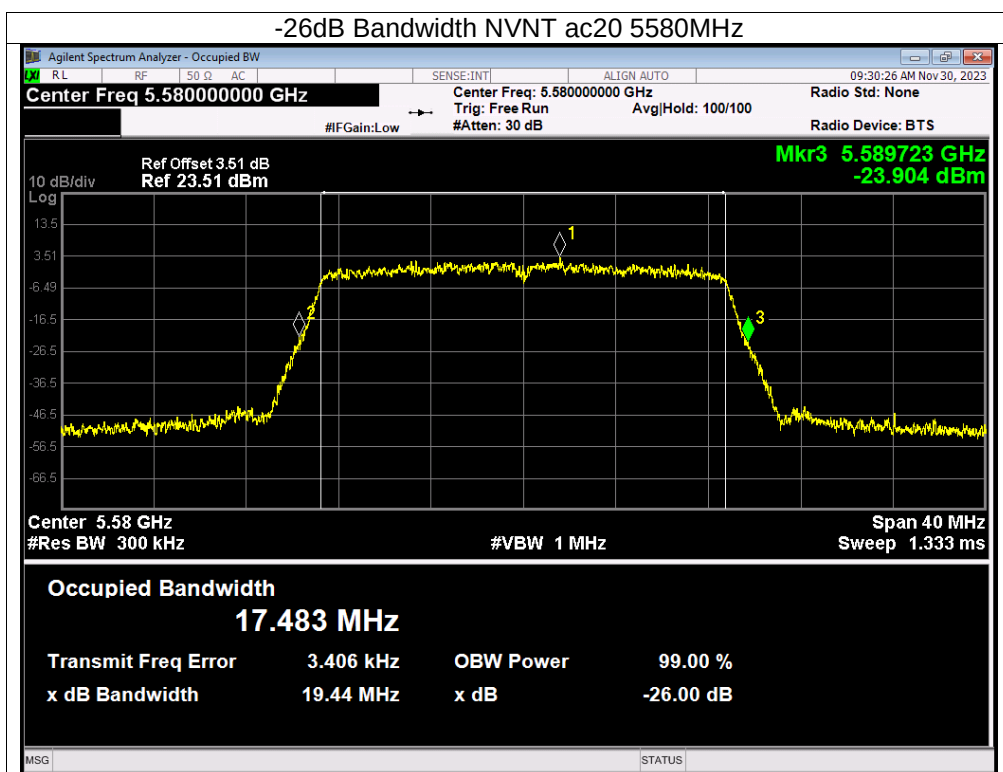


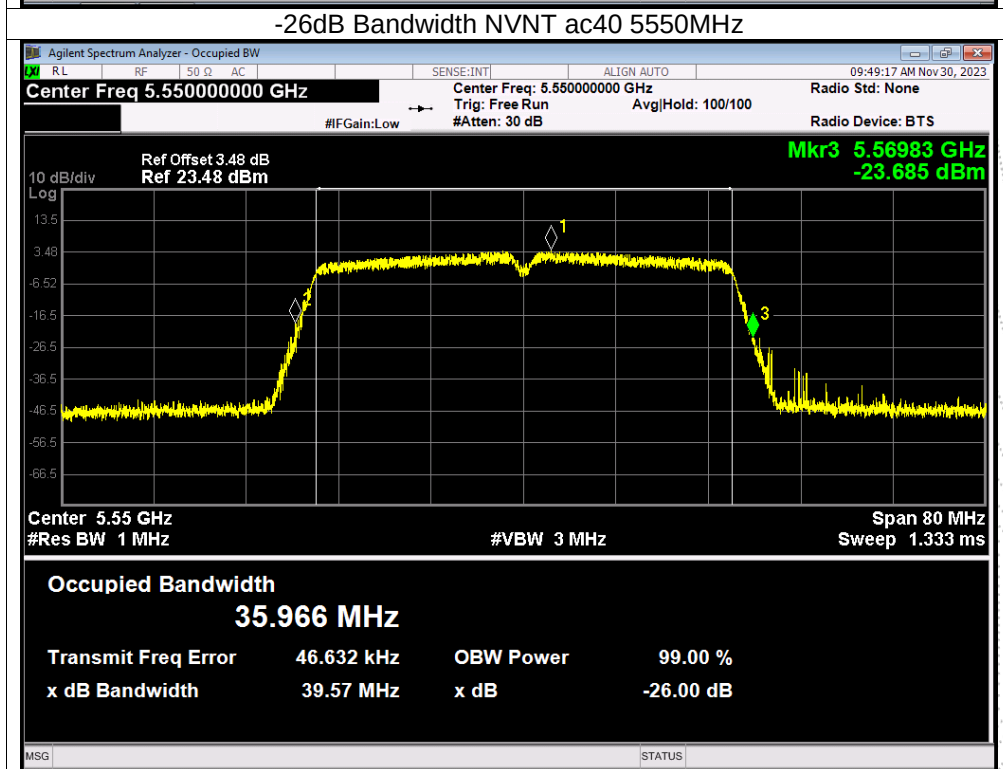
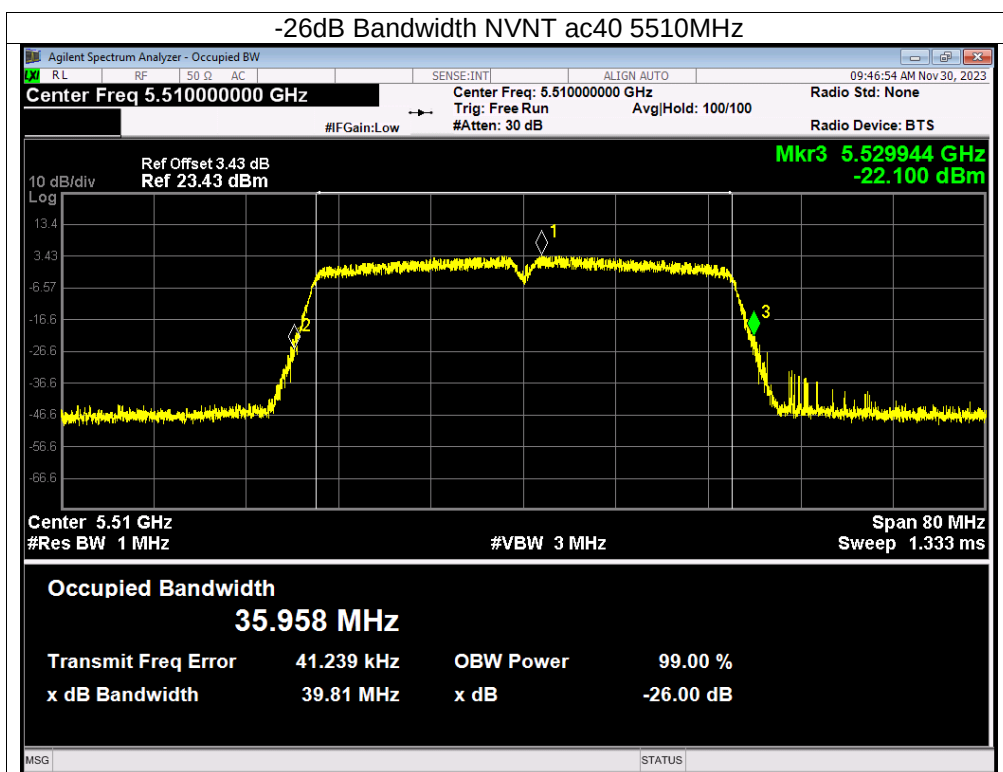


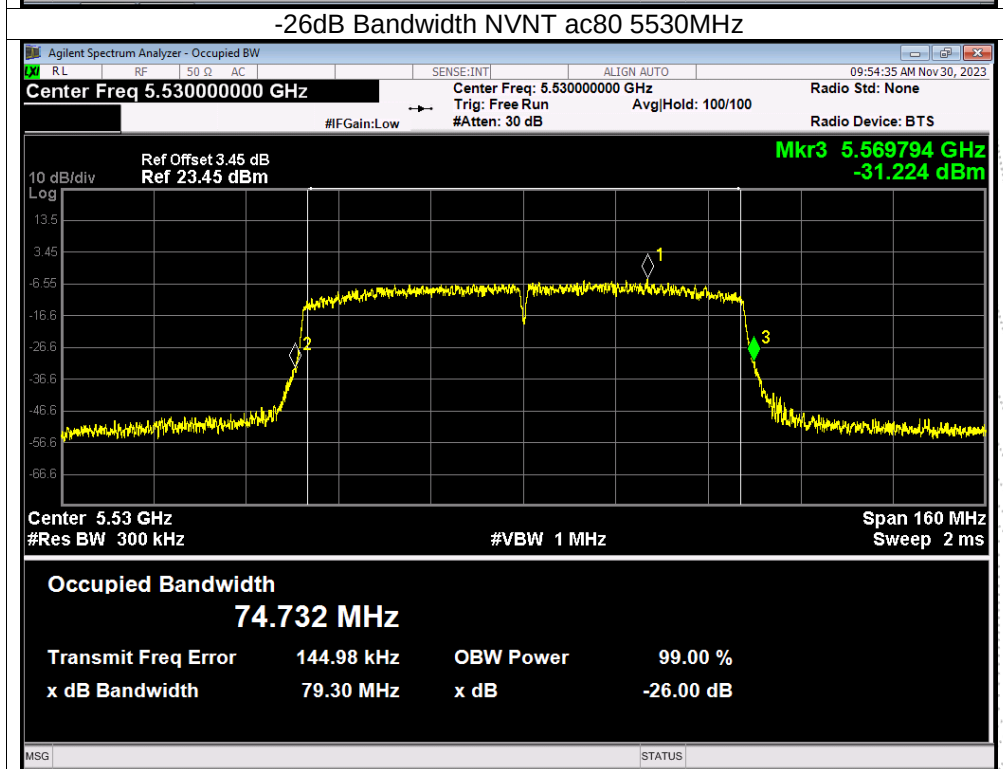
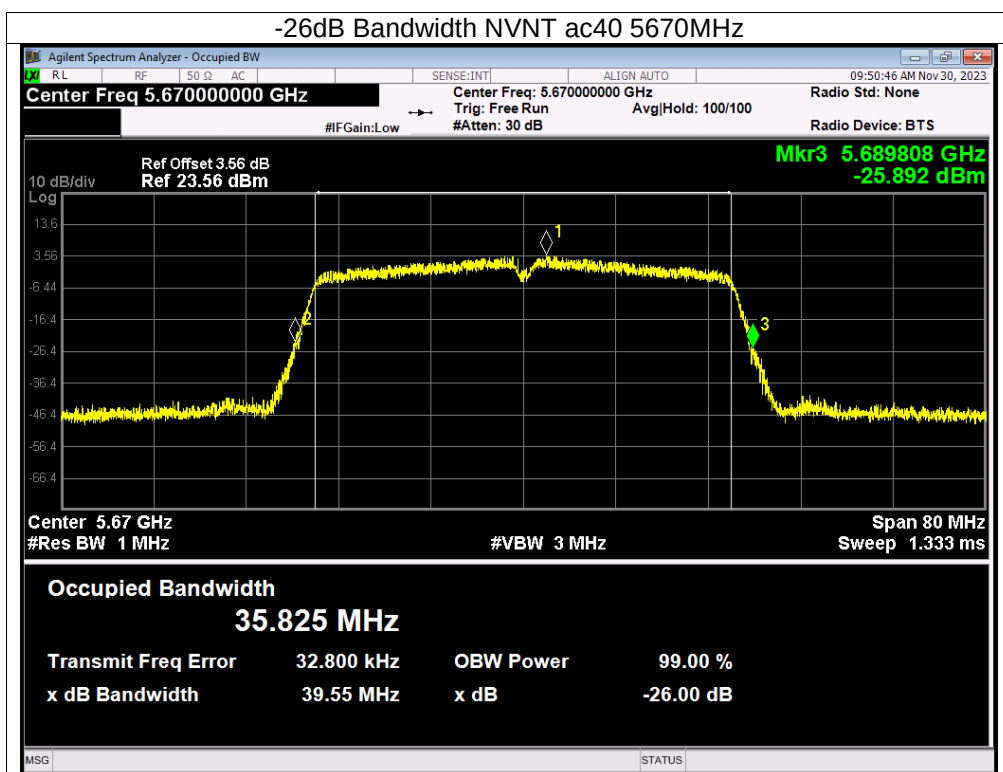












Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

