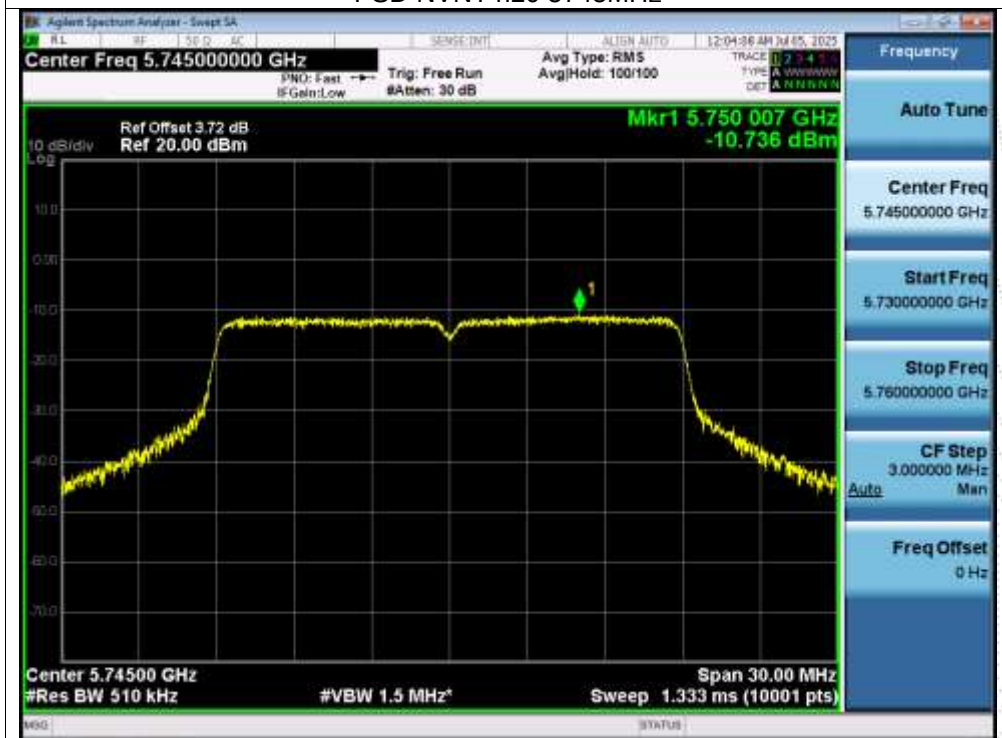


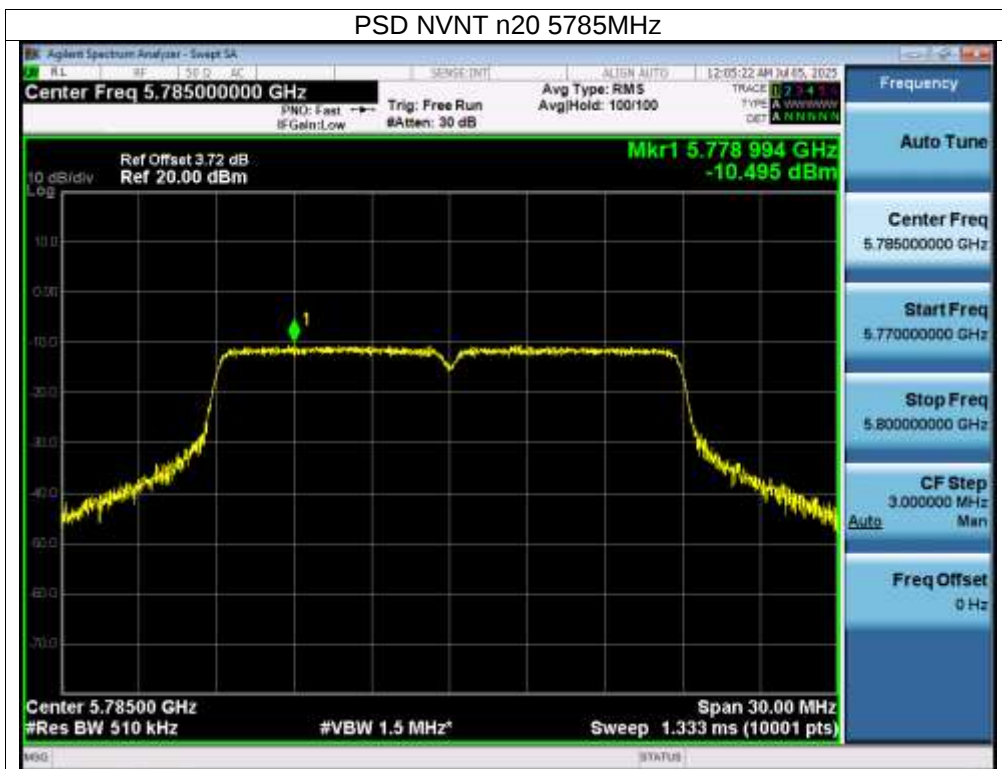
PSD NVNT a 5825MHz



PSD NVNT n20 5745MHz



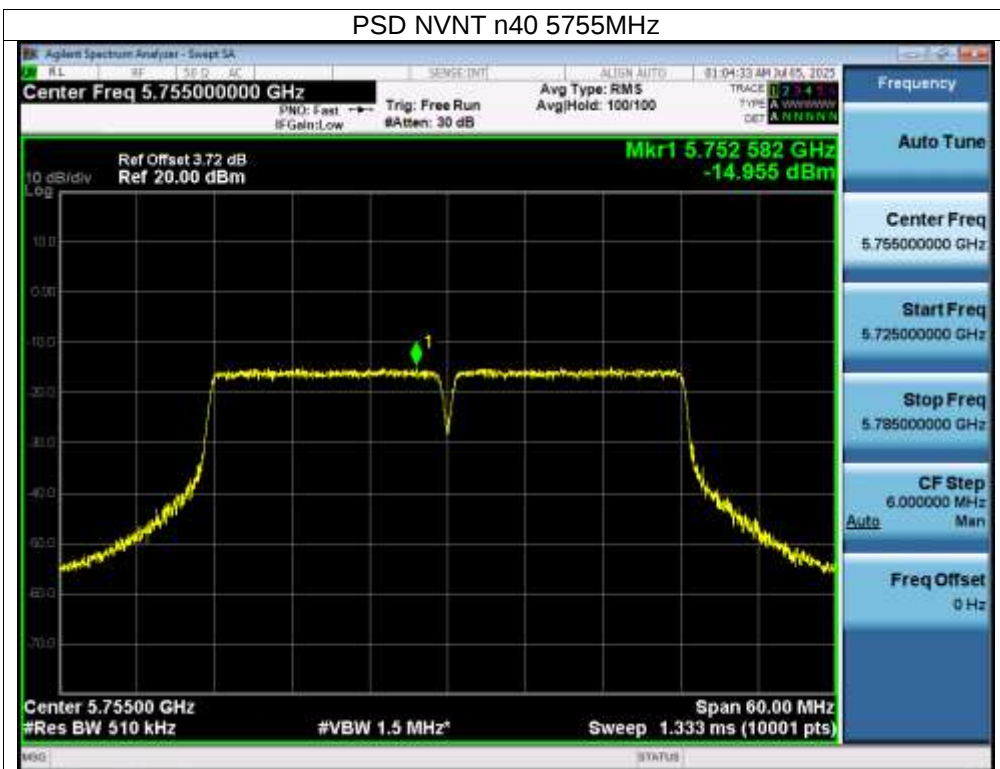
PSD NVNT n20 5785MHz



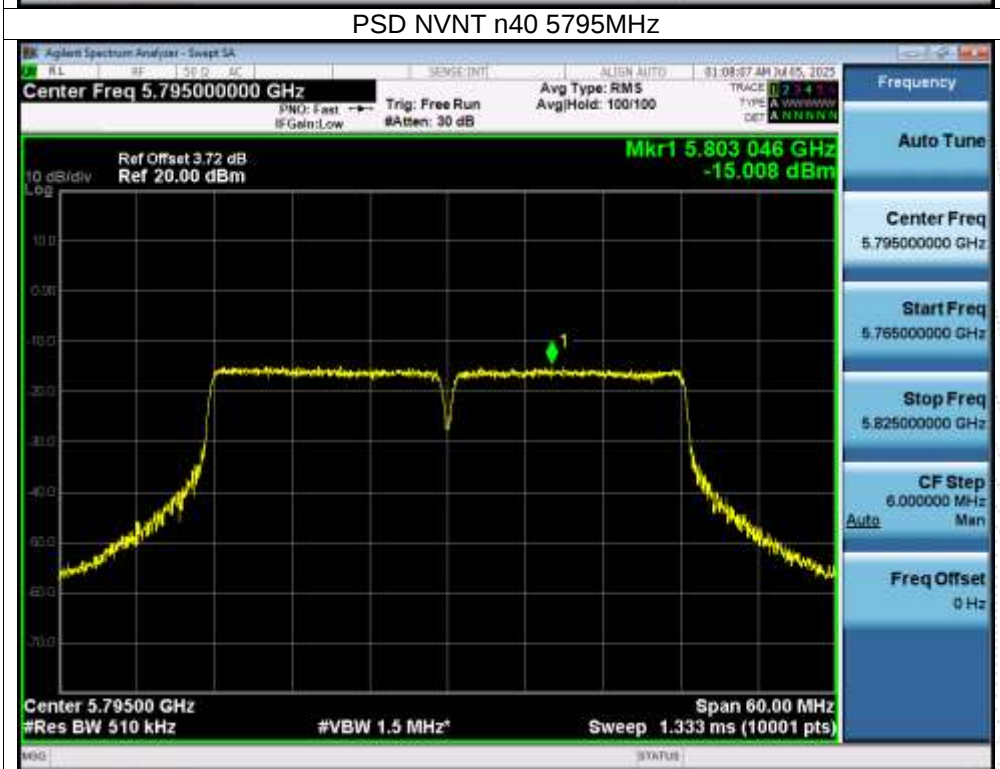
PSD NVNT n20 5825MHz



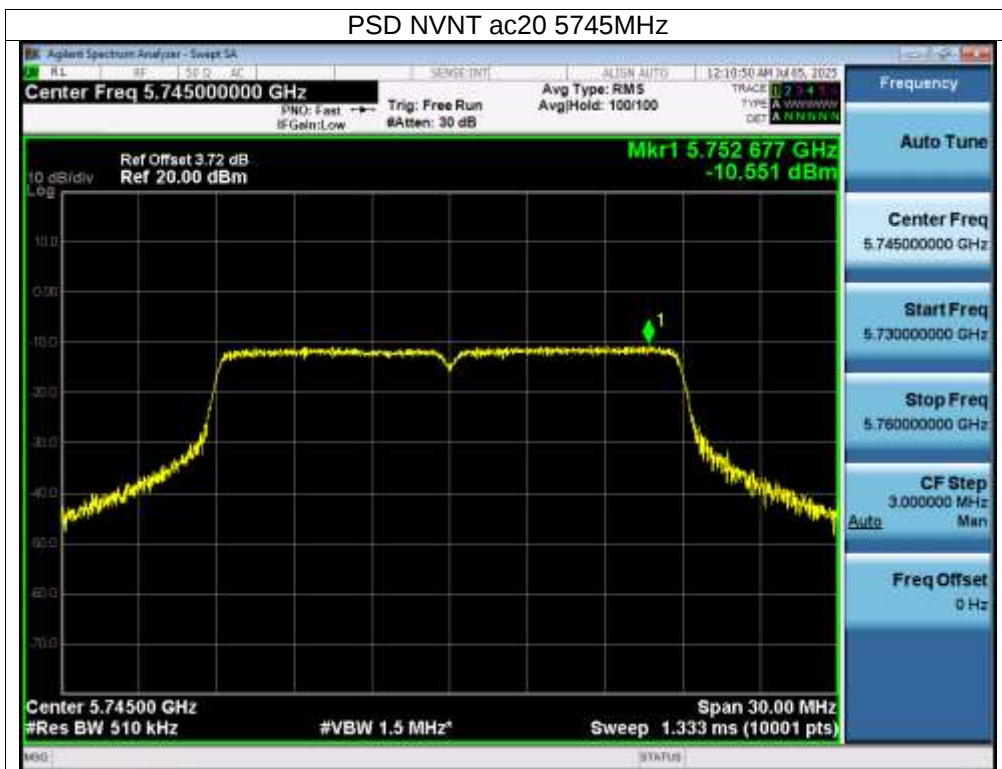
PSD NVNT n40 5755MHz



PSD NVNT n40 5795MHz



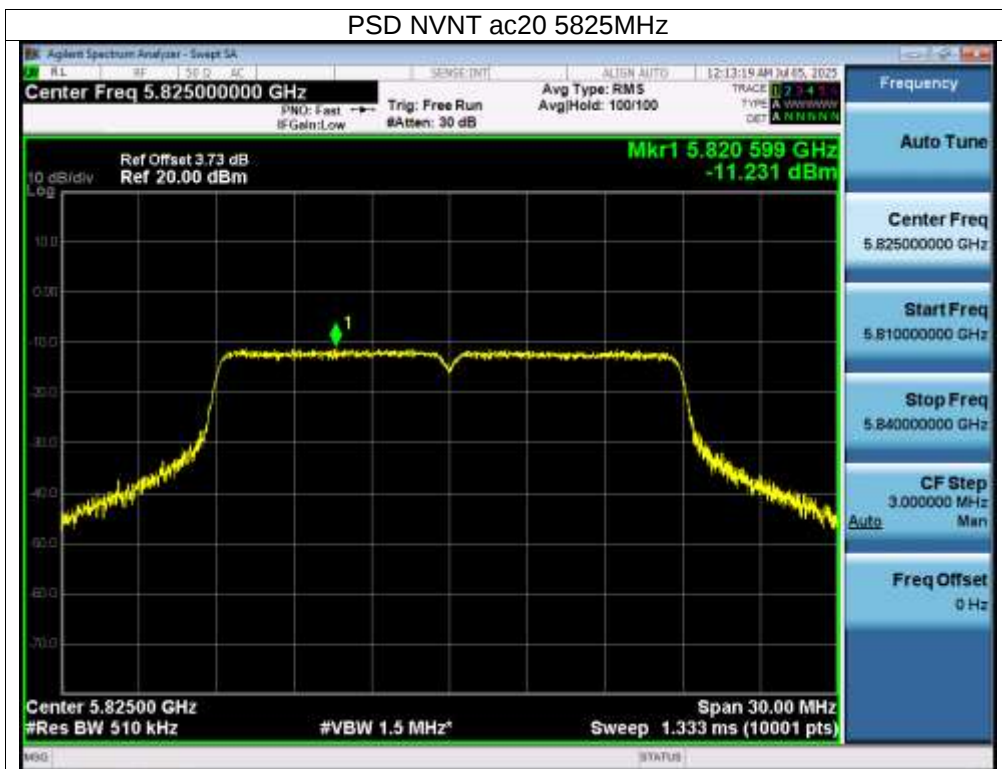
PSD NVNT ac20 5745MHz



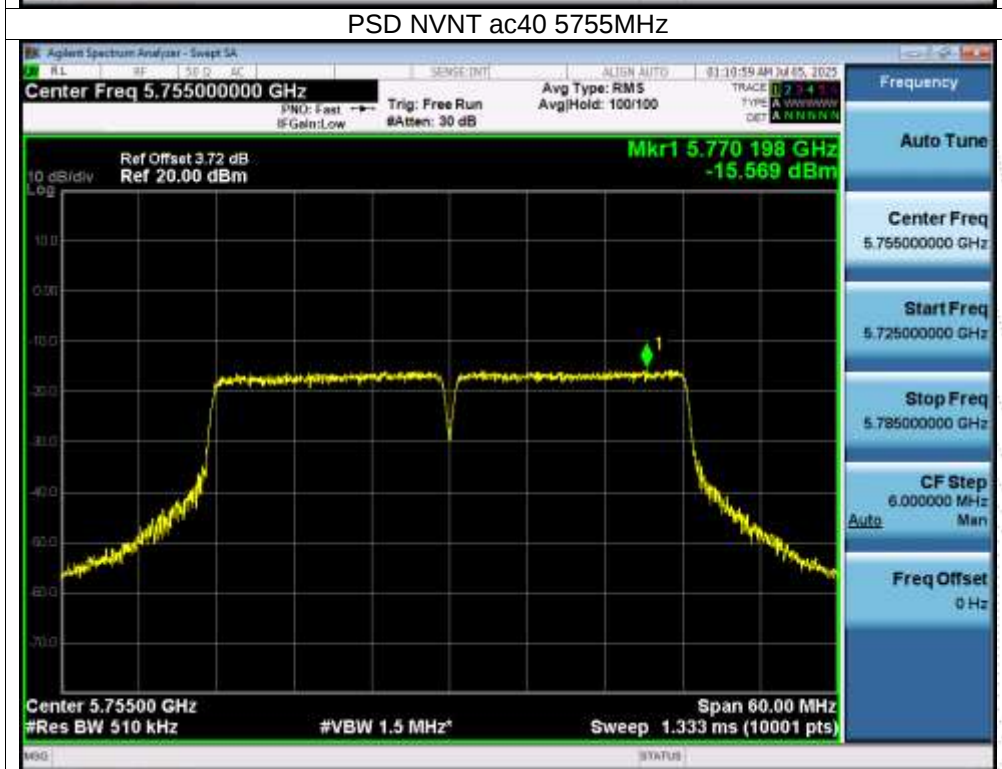
PSD NVNT ac20 5785MHz



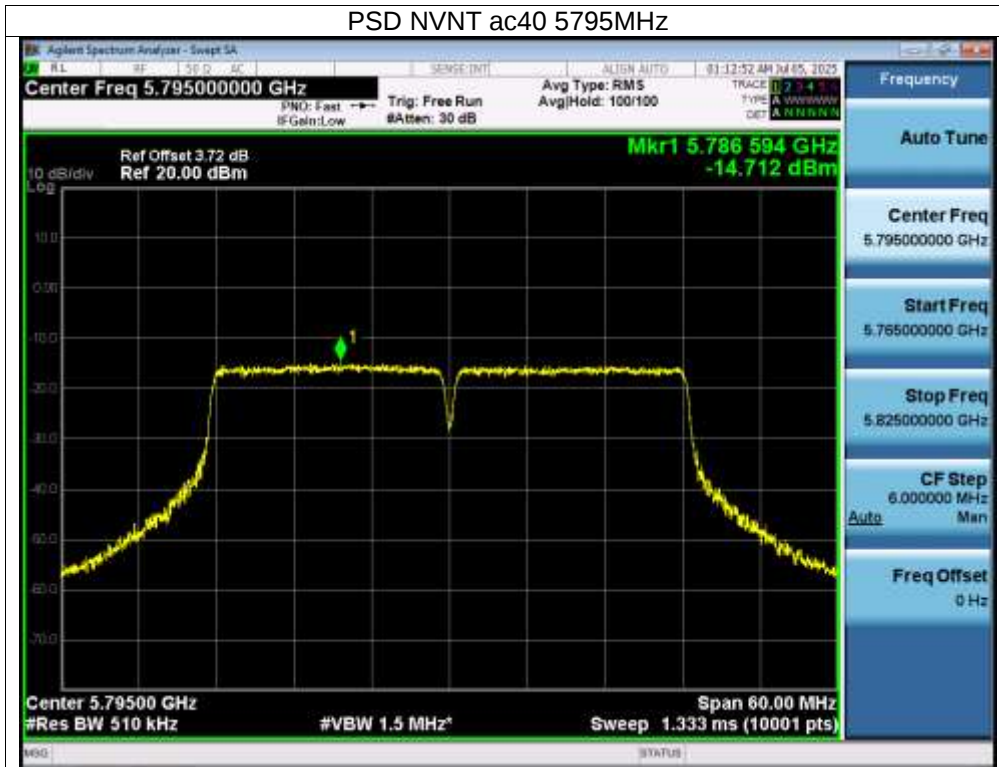
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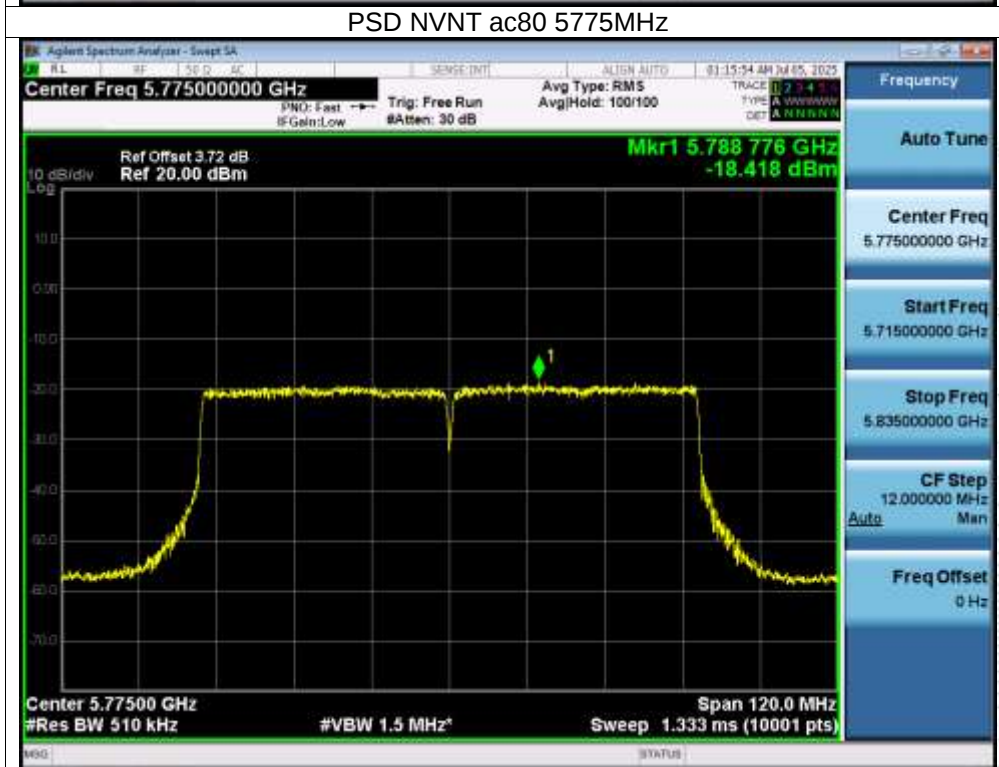
PSD NVNT ac40 5755MHz



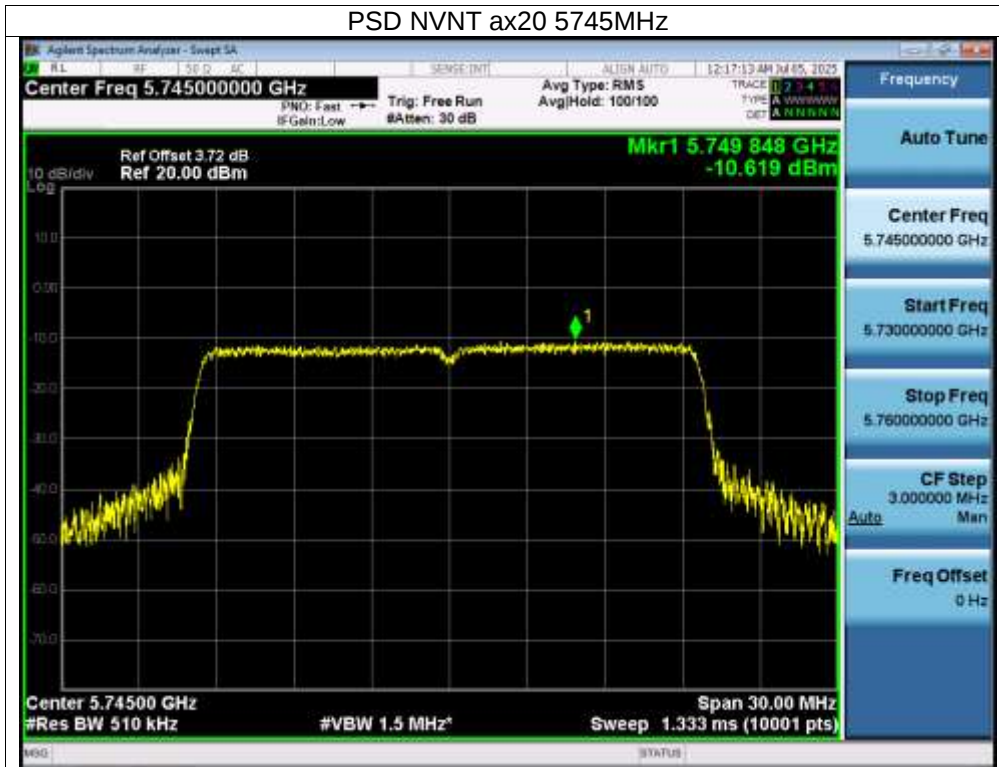
PSD NVNT ac40 5795MHz



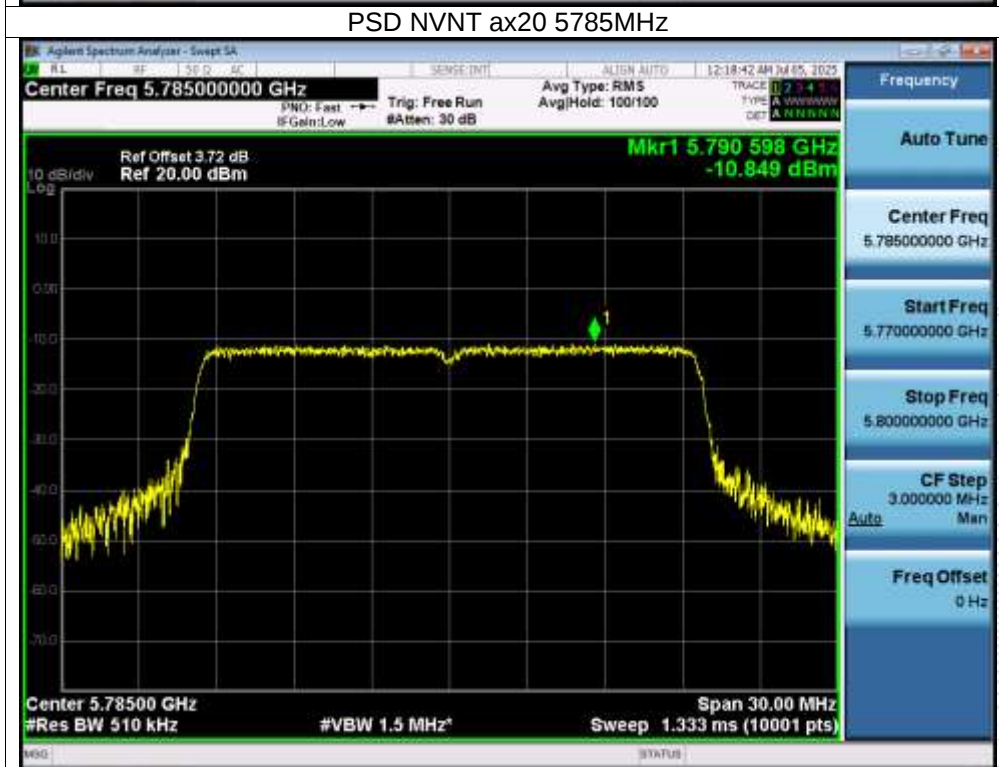
PSD NVNT ac80 5775MHz



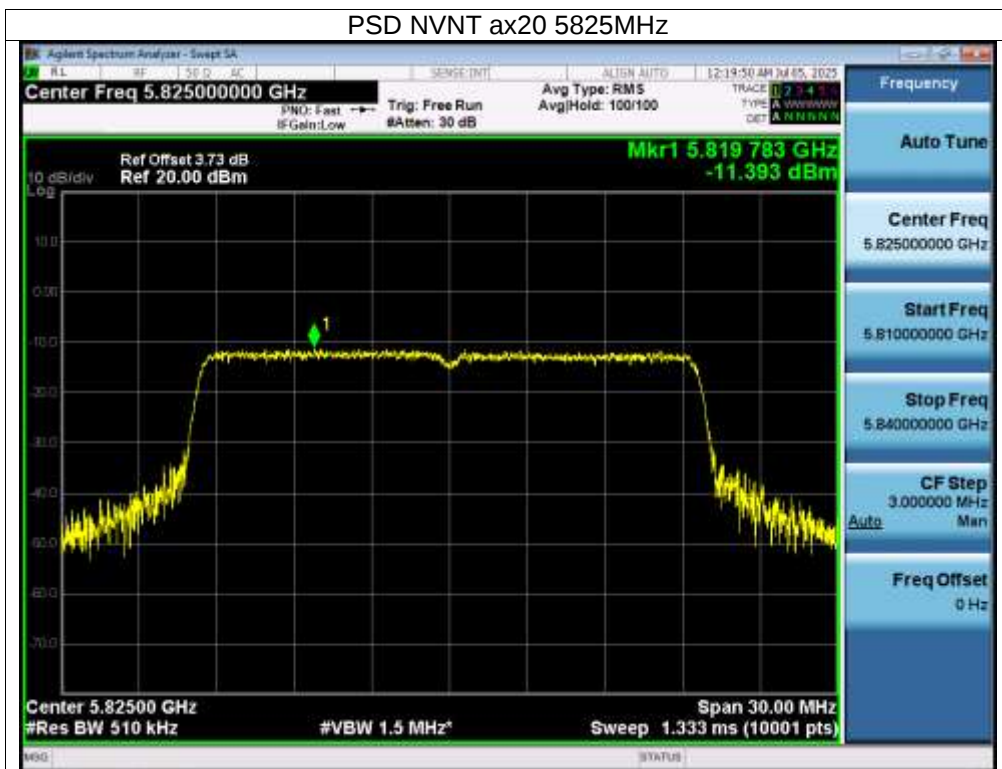
PSD NVNT ax20 5745MHz



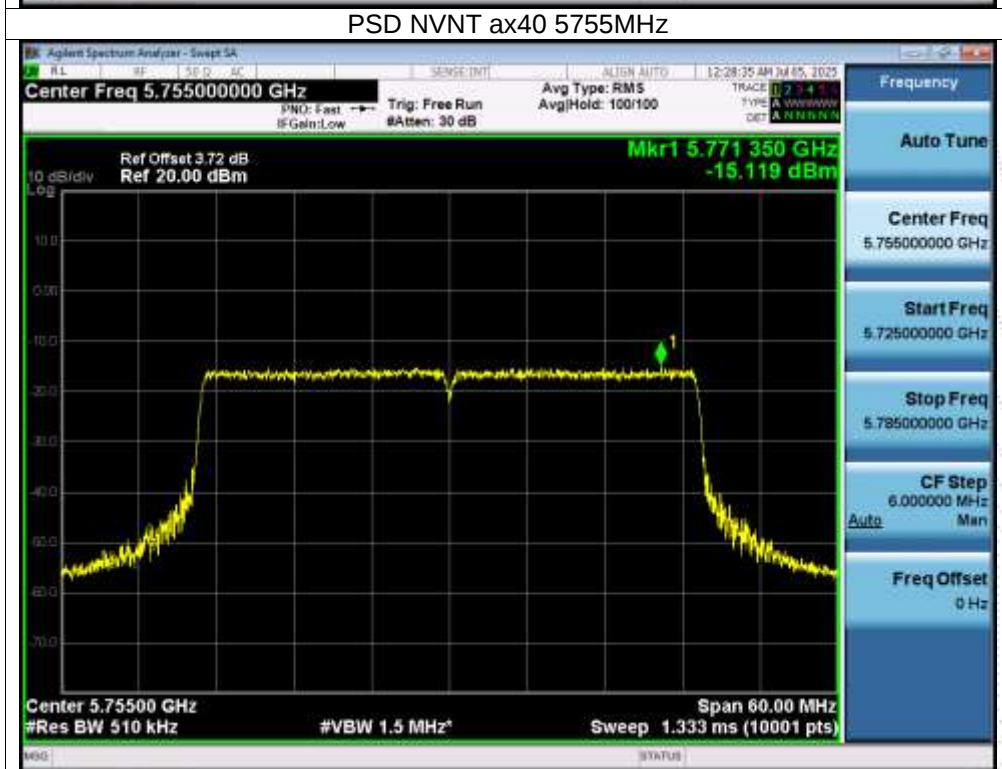
PSD NVNT ax20 5785MHz



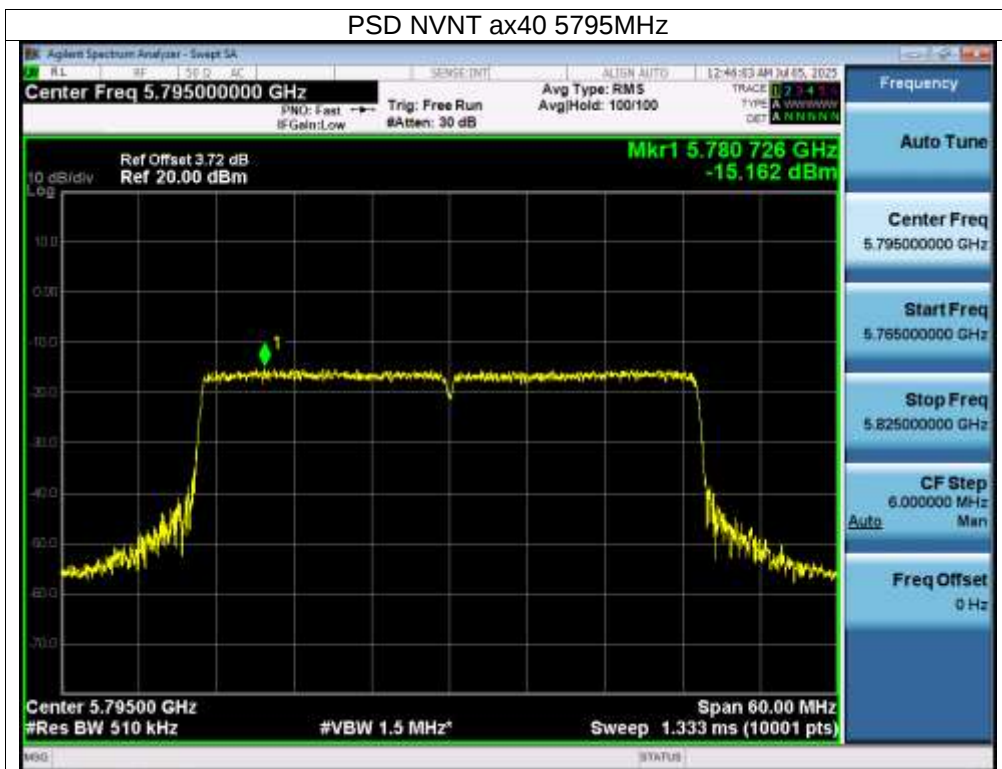
PSD NVNT ax20 5825MHz



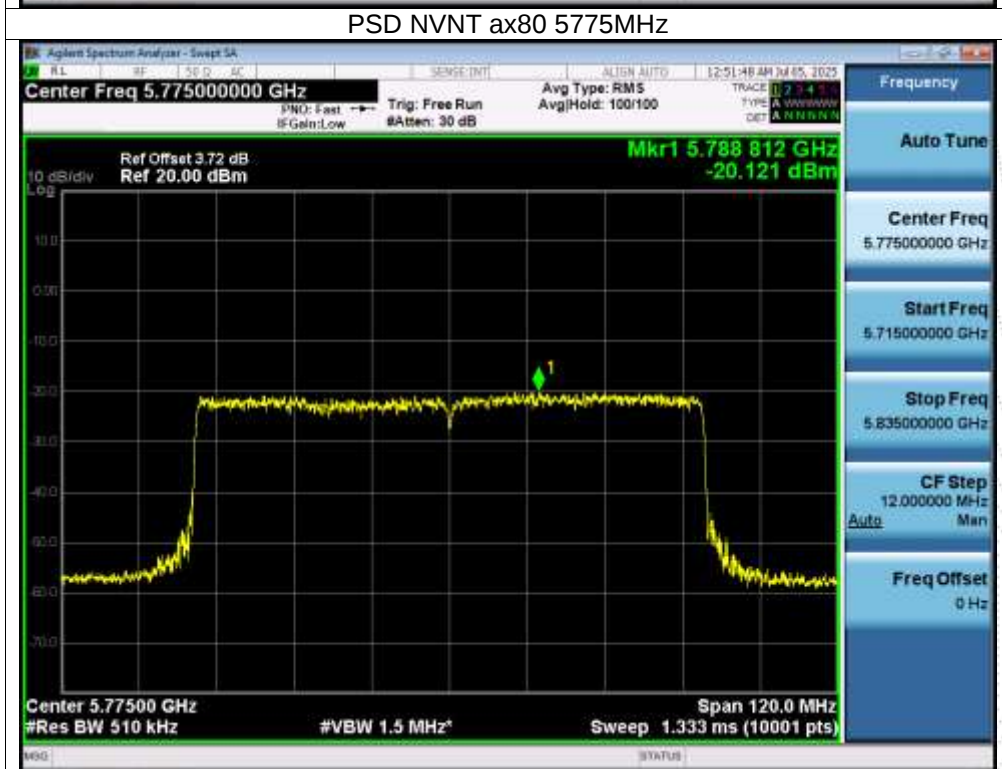
PSD NVNT ax40 5755MHz



PSD NVNT ax40 5795MHz

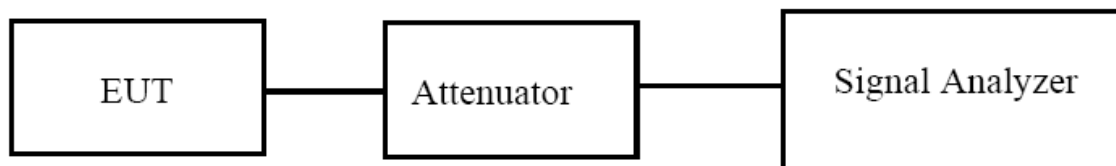


PSD NVNT ax80 5775MHz



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%.

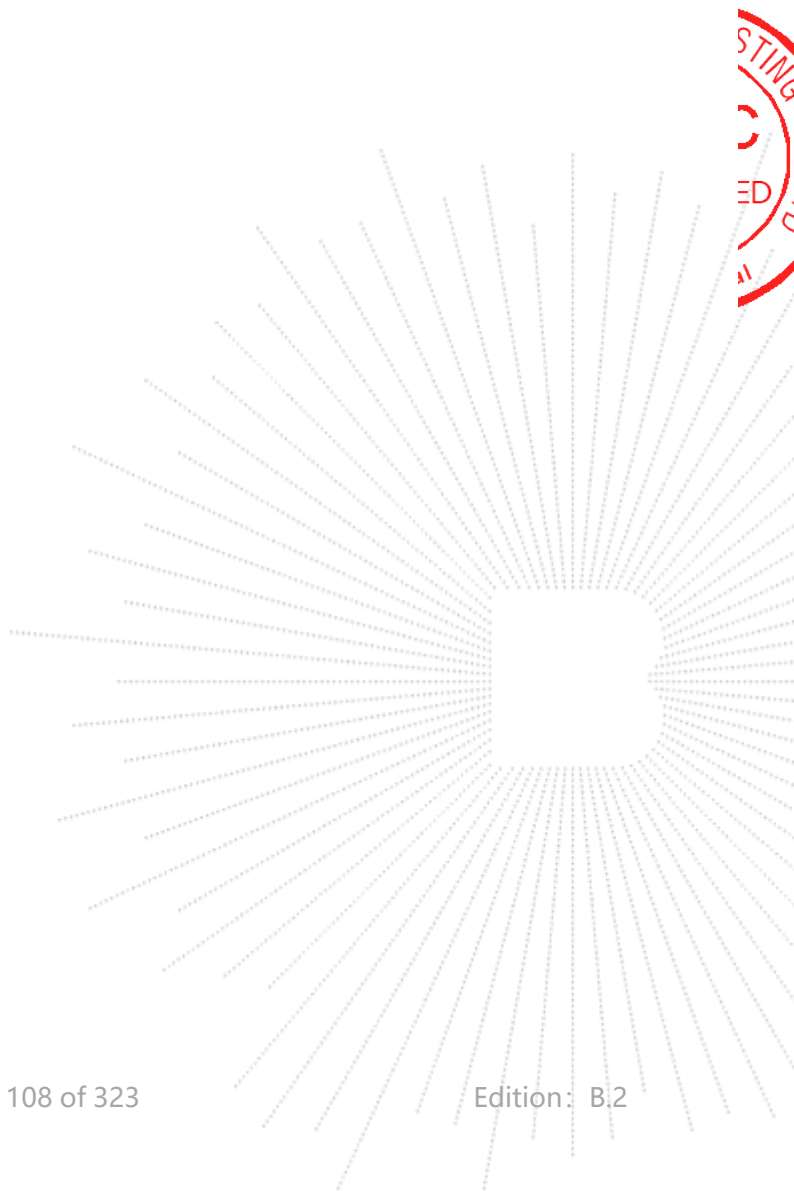
The following procedure shall be used for measuring (99 %) power bandwidth:

- 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

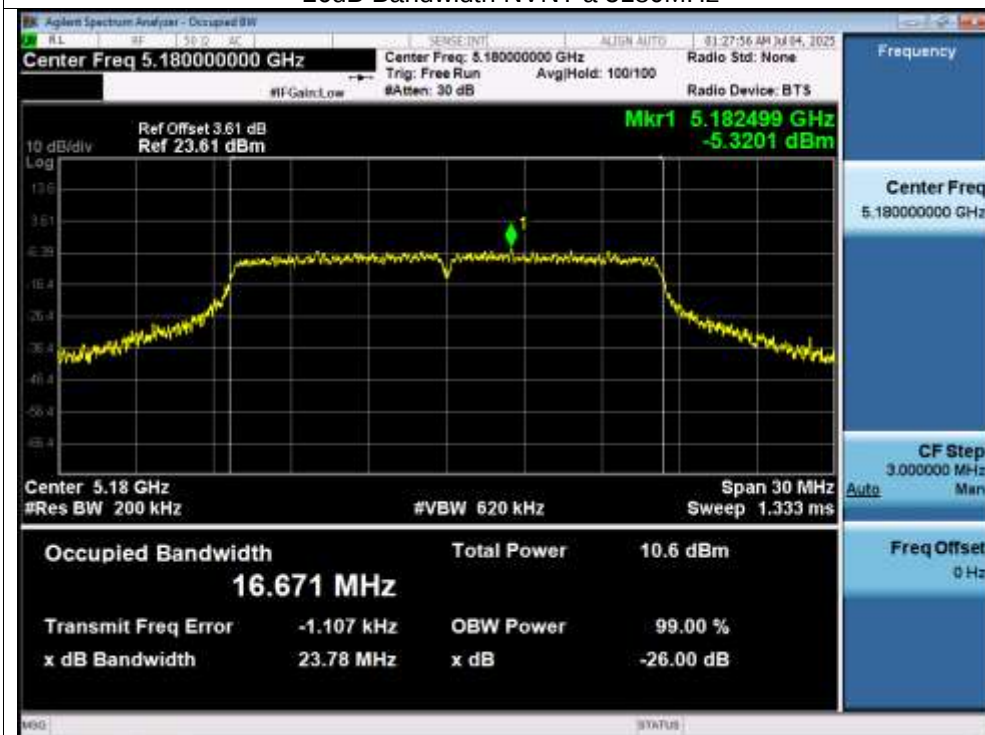
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26dB bandwidth (MHz)	99% bandwidth (MHz)	Result
NVNT	a	5180	23.785	16.619	Pass
NVNT	a	5200	23.177	16.645	Pass
NVNT	a	5240	23.134	16.678	Pass
NVNT	n20	5180	24.602	17.840	Pass
NVNT	n20	5200	24.069	17.820	Pass
NVNT	n20	5240	24.787	17.834	Pass
NVNT	n40	5190	45.562	36.378	Pass
NVNT	n40	5230	44.710	36.364	Pass
NVNT	ac20	5180	24.346	17.843	Pass
NVNT	ac20	5200	24.644	17.849	Pass
NVNT	ac20	5240	24.035	17.825	Pass
NVNT	ac40	5190	45.671	36.352	Pass
NVNT	ac40	5230	46.186	36.379	Pass
NVNT	ac80	5210	87.278	75.667	Pass
NVNT	ax20	5180	24.889	19.026	Pass
NVNT	ax20	5200	24.049	19.015	Pass
NVNT	ax20	5240	24.740	19.014	Pass
NVNT	ax40	5190	45.722	37.849	Pass
NVNT	ax40	5230	43.878	37.894	Pass
NVNT	ax80	5210	83.859	77.173	Pass

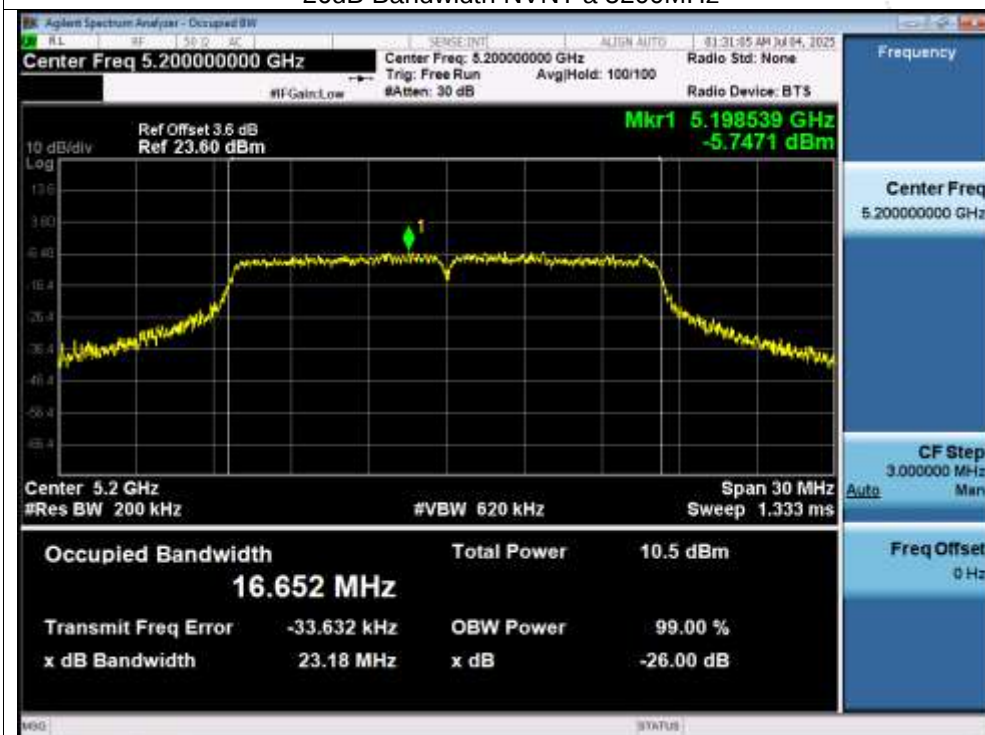
CO. LTD.

Test Graphs

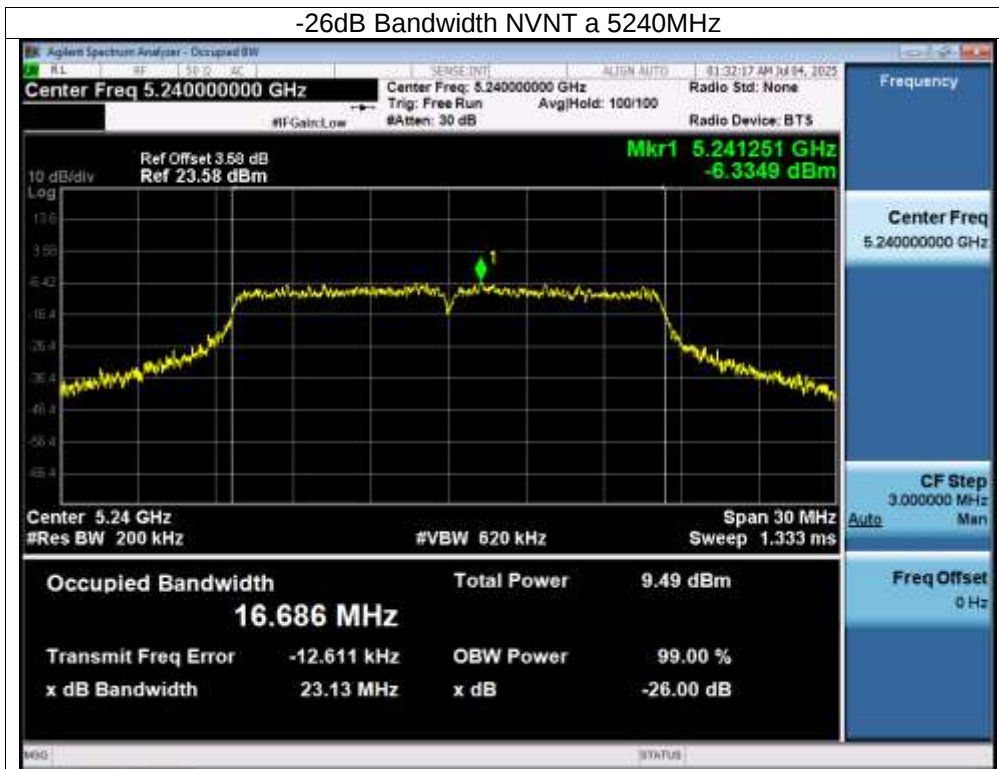
-26dB Bandwidth NVNT a 5180MHz



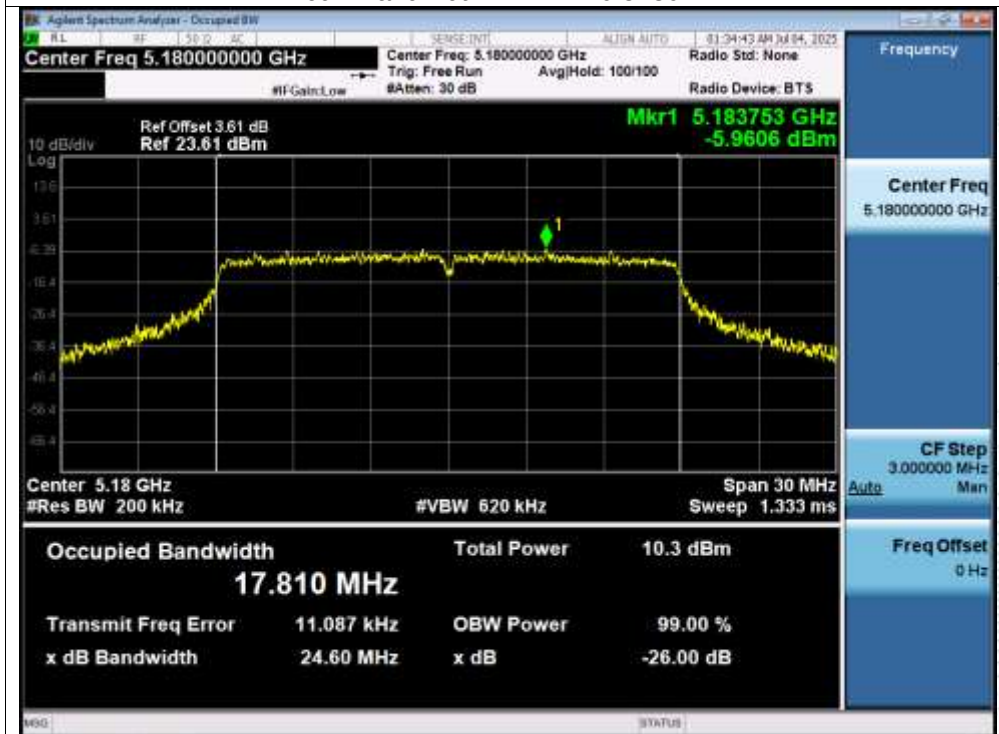
-26dB Bandwidth NVNT a 5200MHz



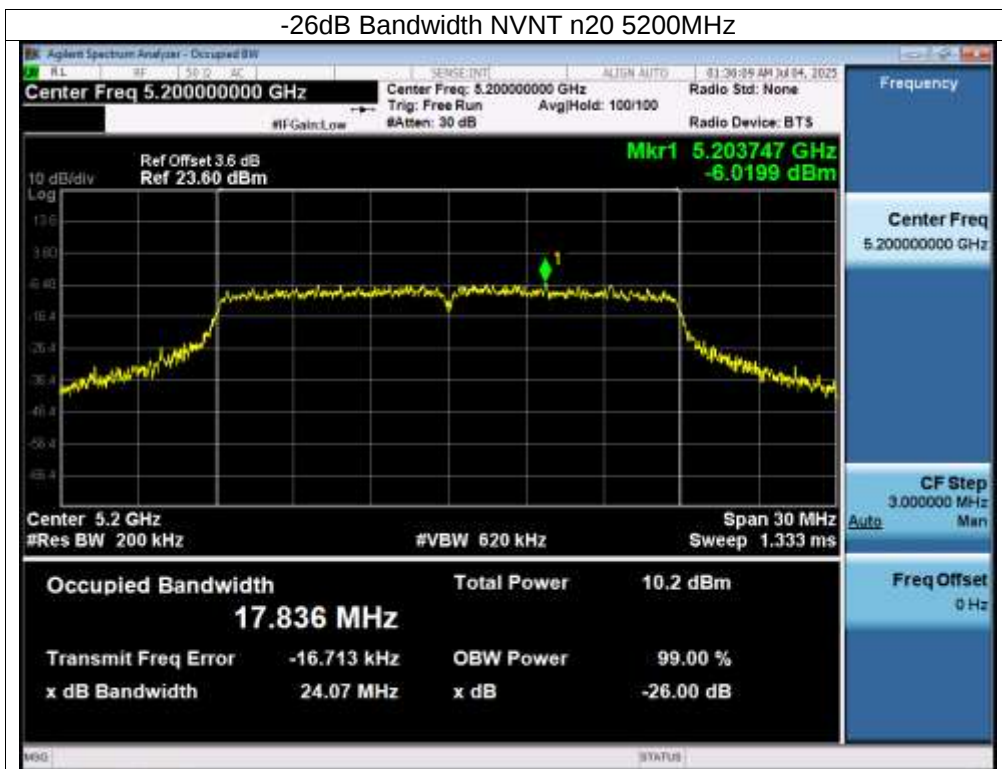
-26dB Bandwidth NVNT a 5240MHz



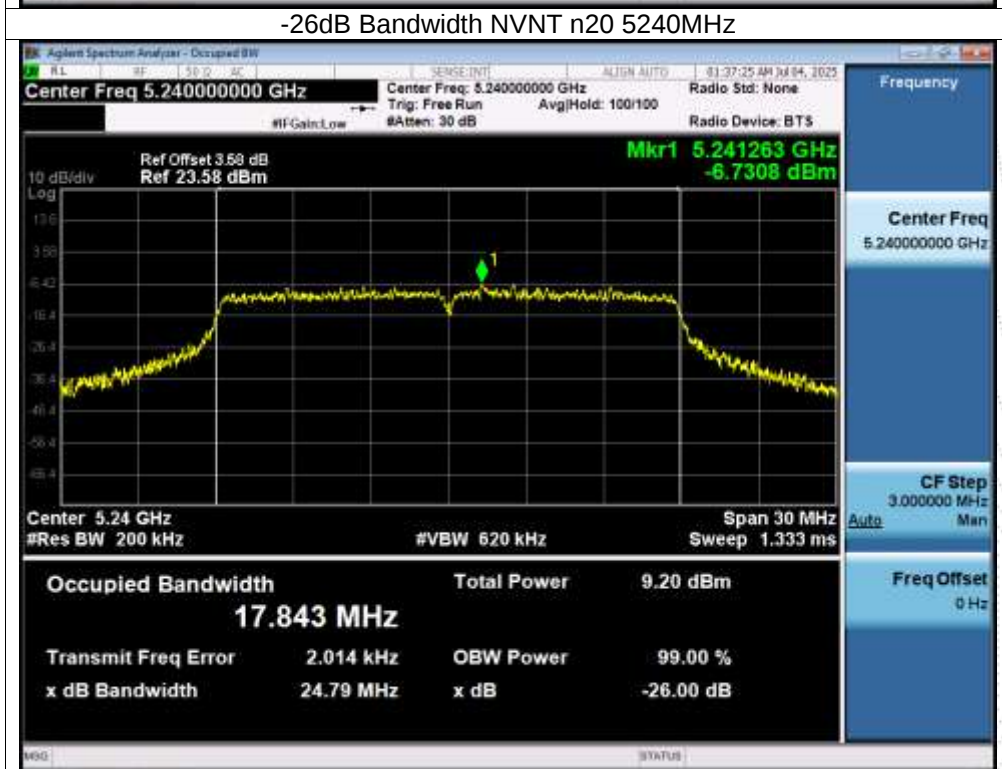
-26dB Bandwidth NVNT n20 5180MHz



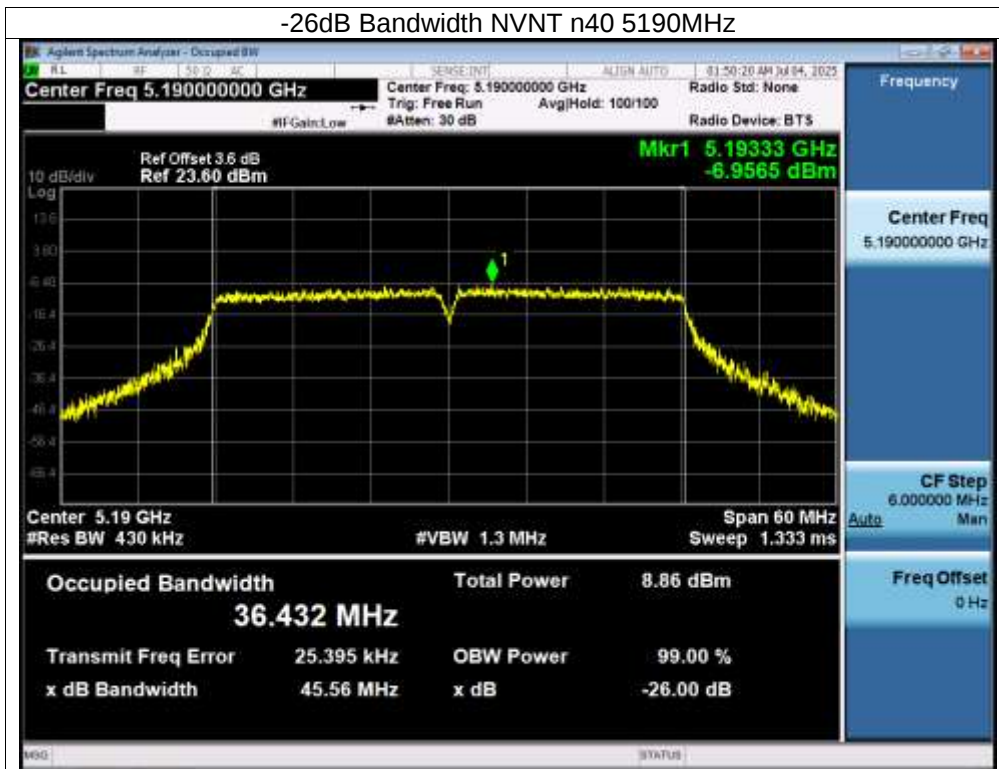
-26dB Bandwidth NVNT n20 5200MHz



-26dB Bandwidth NVNT n20 5240MHz



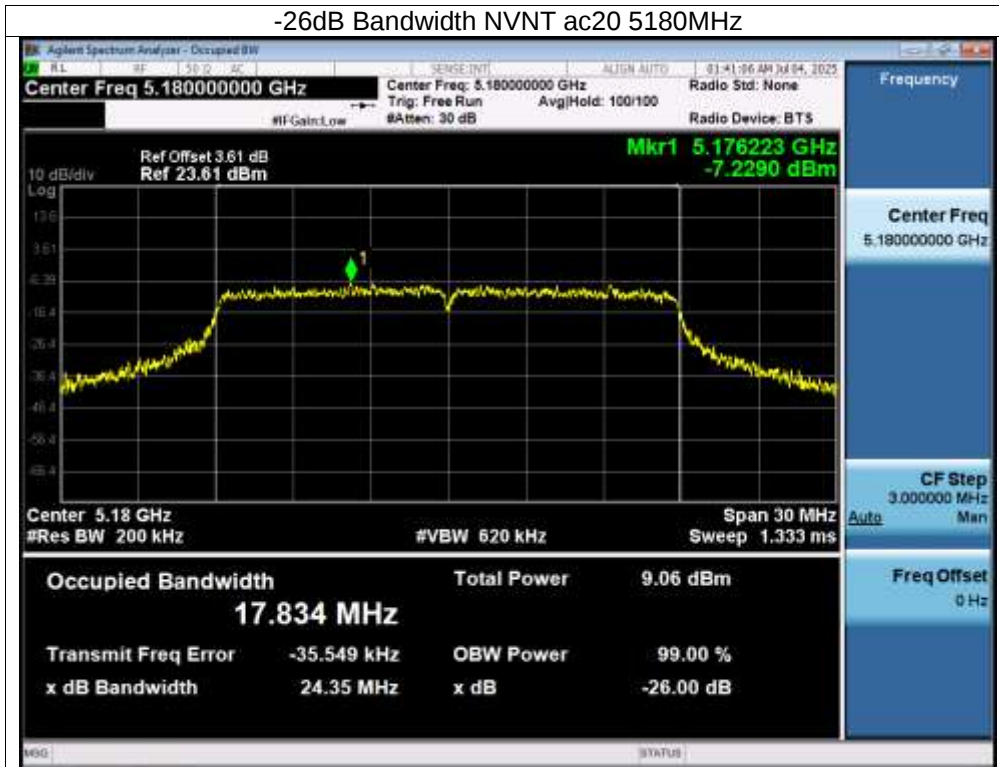
-26dB Bandwidth NVNT n40 5190MHz



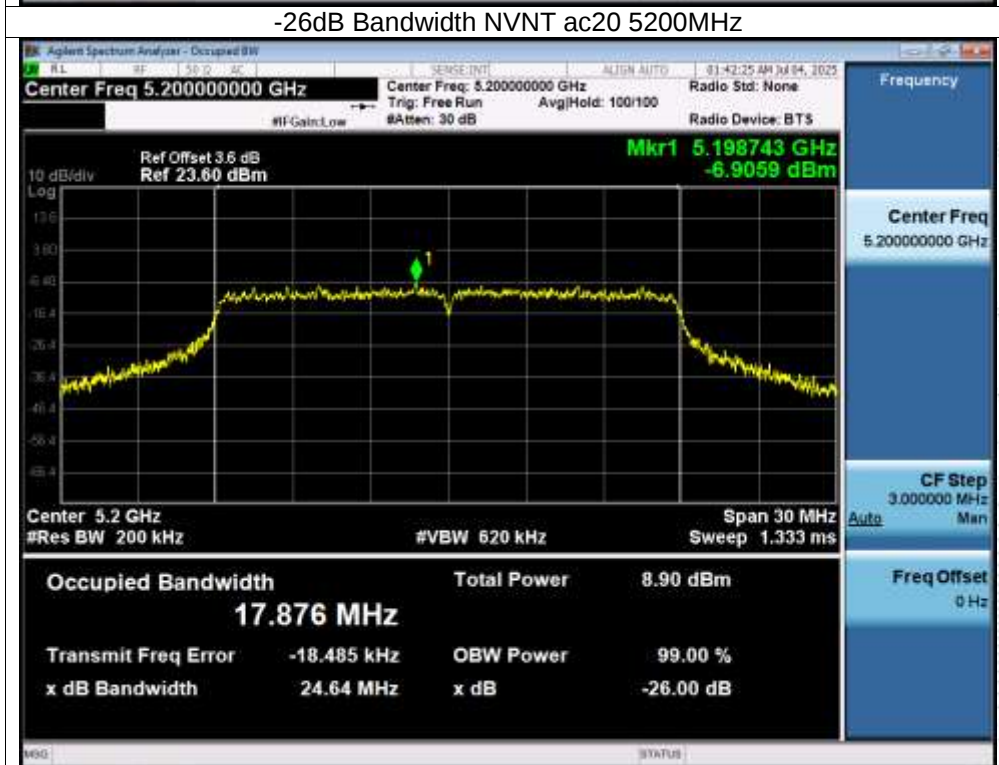
-26dB Bandwidth NVNT n40 5230MHz



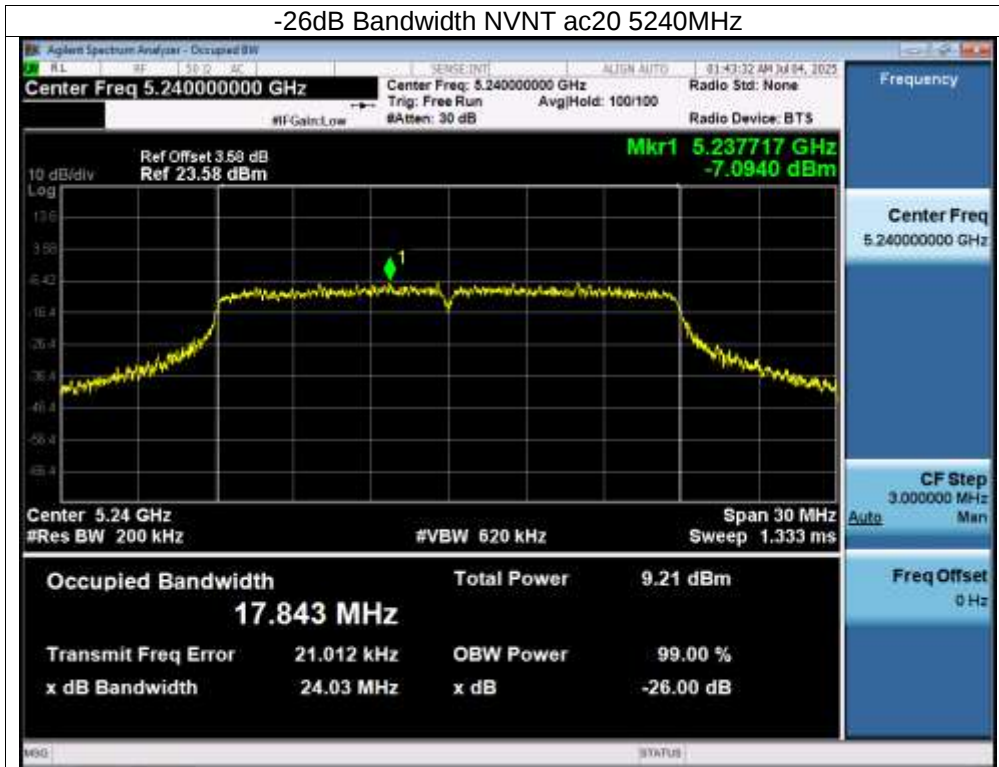
-26dB Bandwidth NVNT ac20 5180MHz



-26dB Bandwidth NVNT ac20 5200MHz



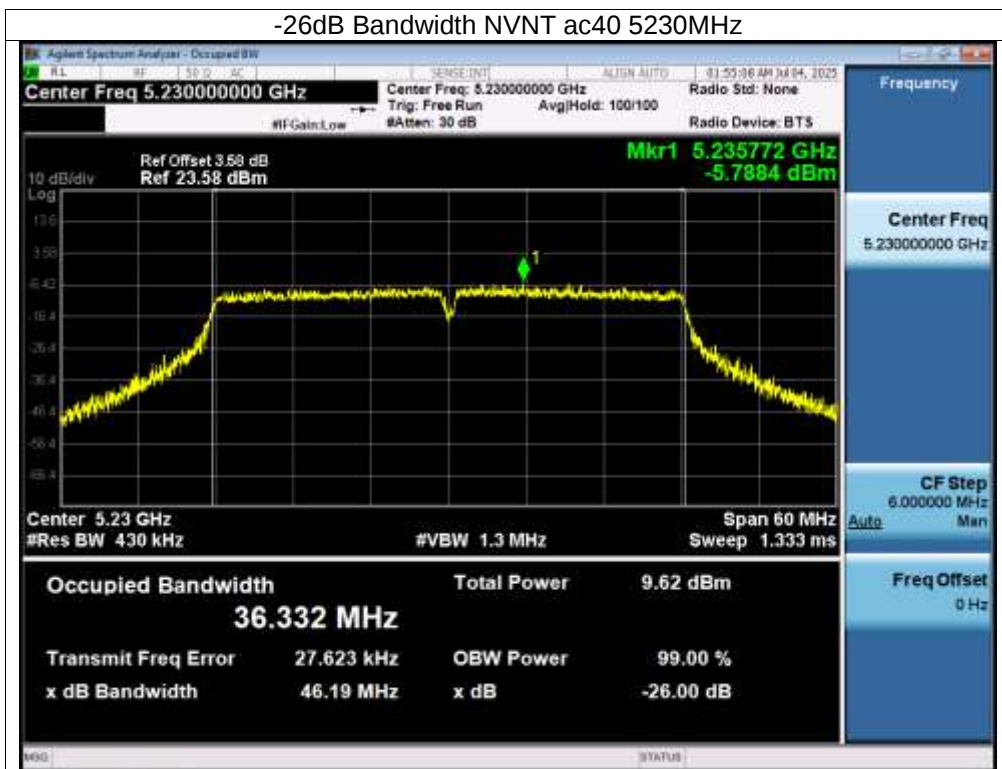
-26dB Bandwidth NVNT ac20 5240MHz



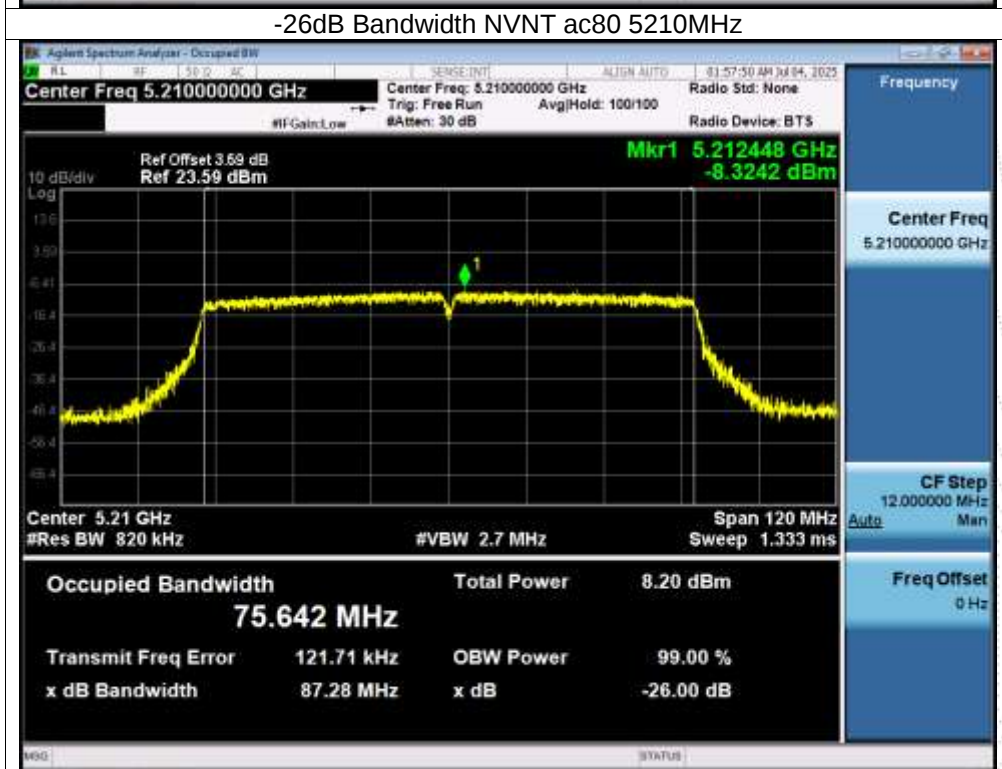
-26dB Bandwidth NVNT ac40 5190MHz



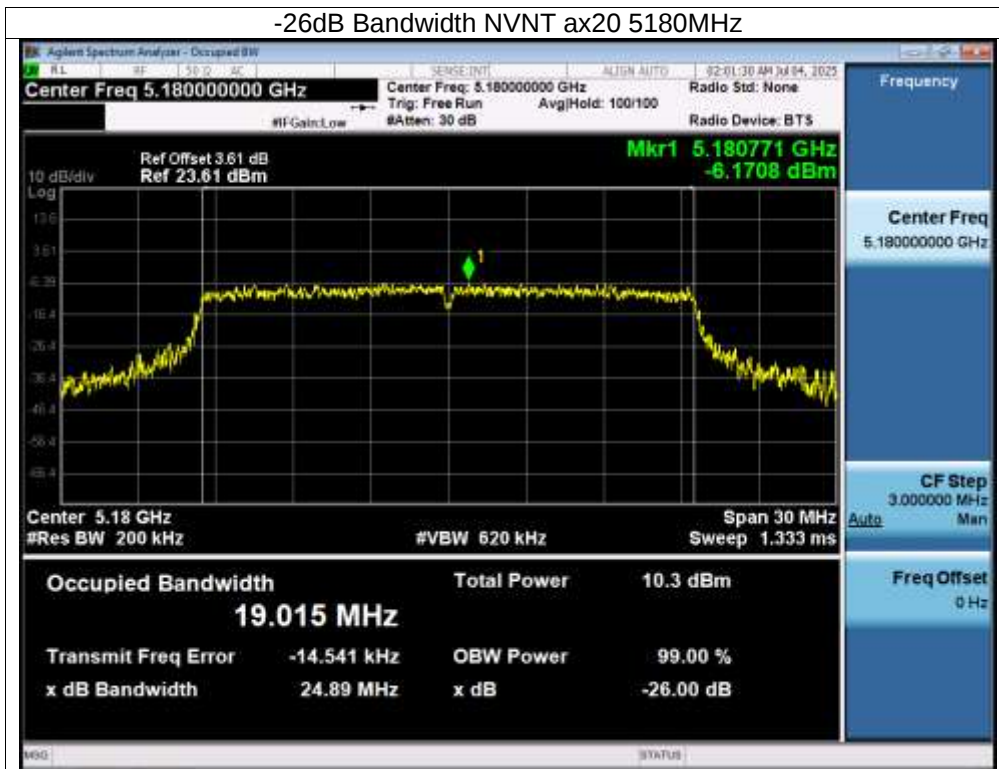
-26dB Bandwidth NVNT ac40 5230MHz



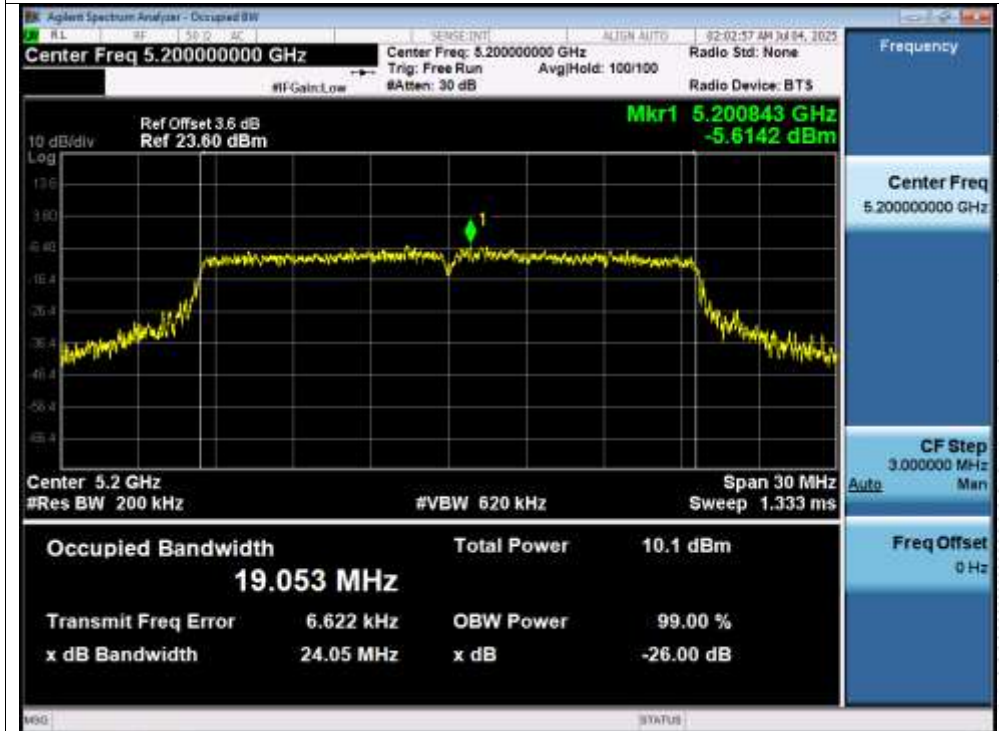
-26dB Bandwidth NVNT ac80 5210MHz



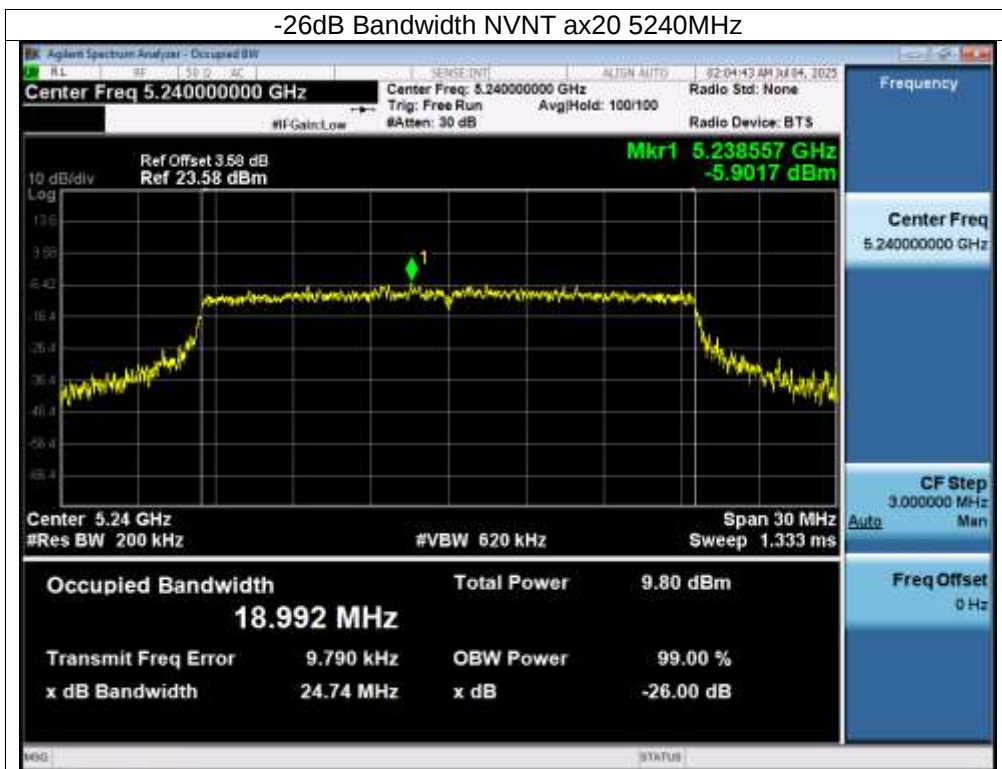
-26dB Bandwidth NVNT ax20 5180MHz



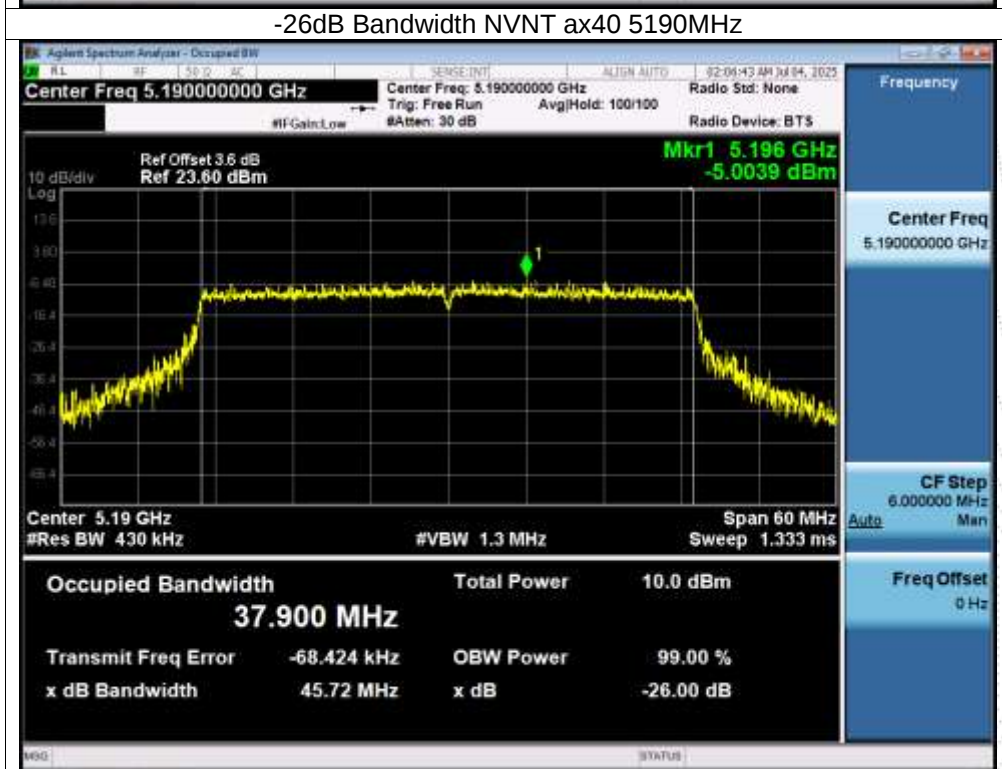
-26dB Bandwidth NVNT ax20 5200MHz



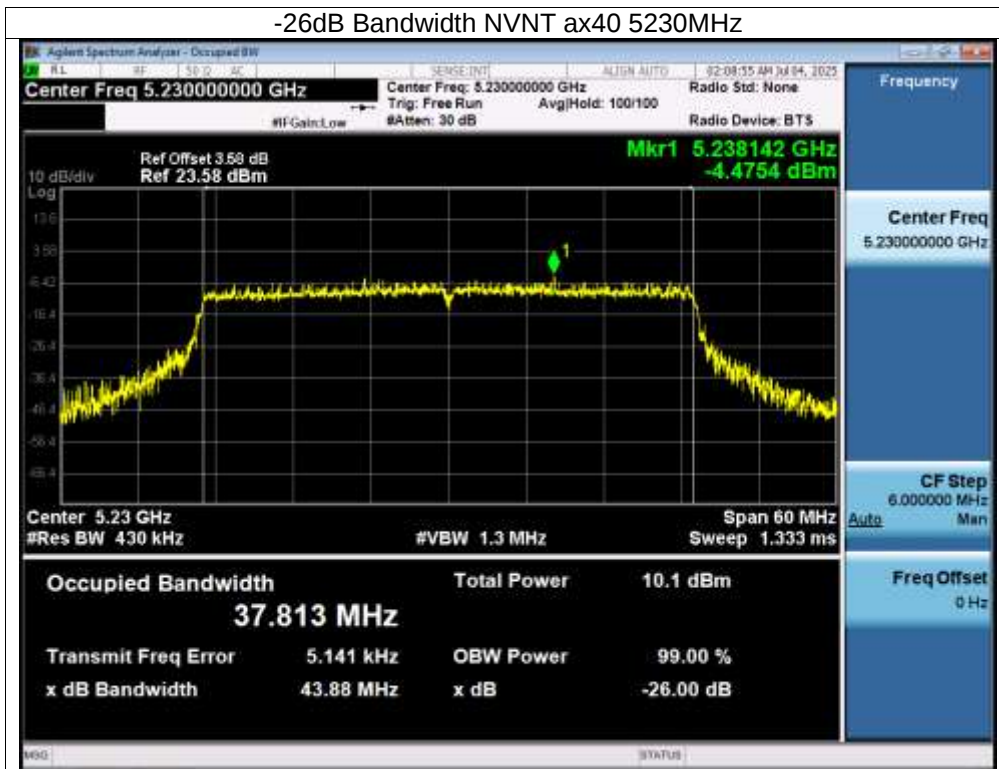
-26dB Bandwidth NVNT ax20 5240MHz



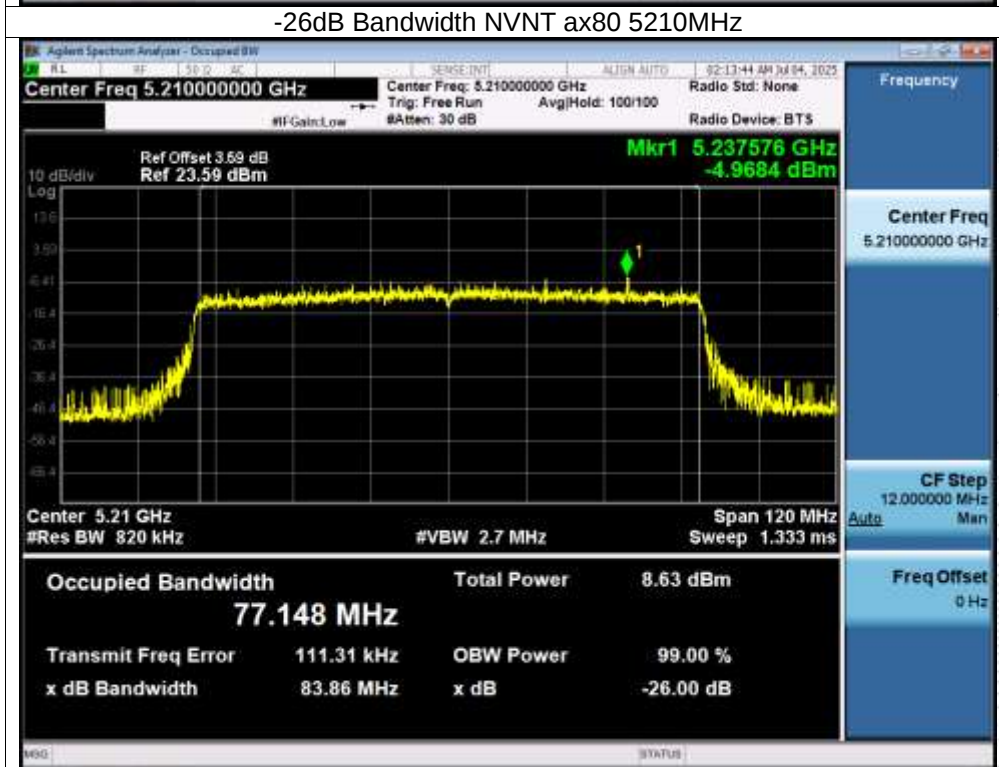
-26dB Bandwidth NVNT ax40 5190MHz



-26dB Bandwidth NVNT ax40 5230MHz

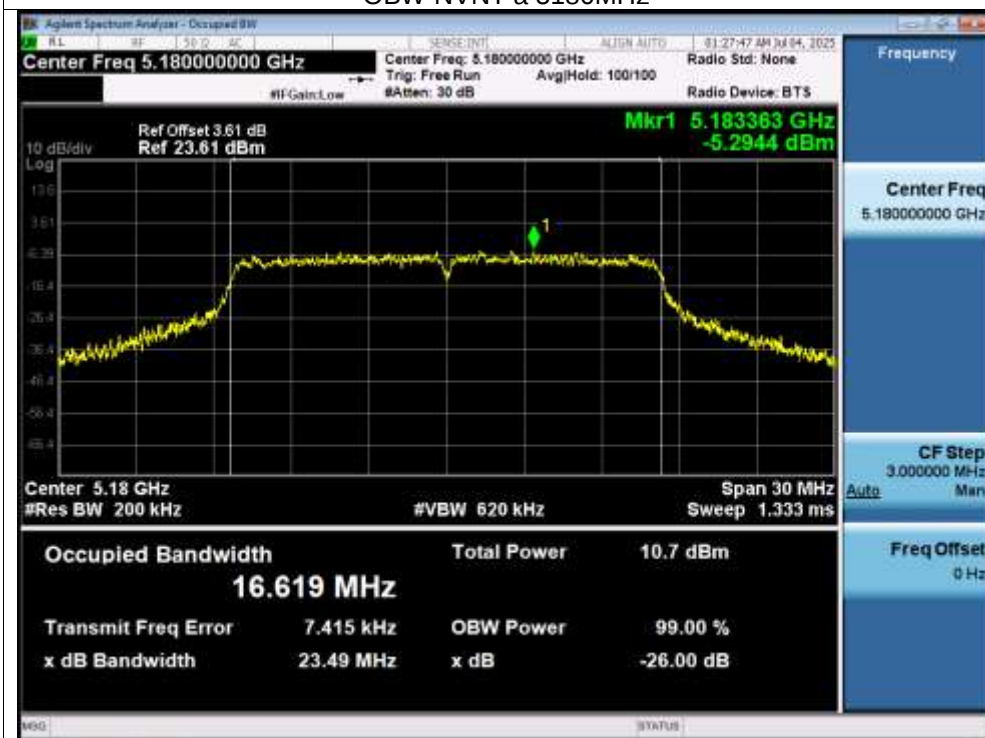


-26dB Bandwidth NVNT ax80 5210MHz

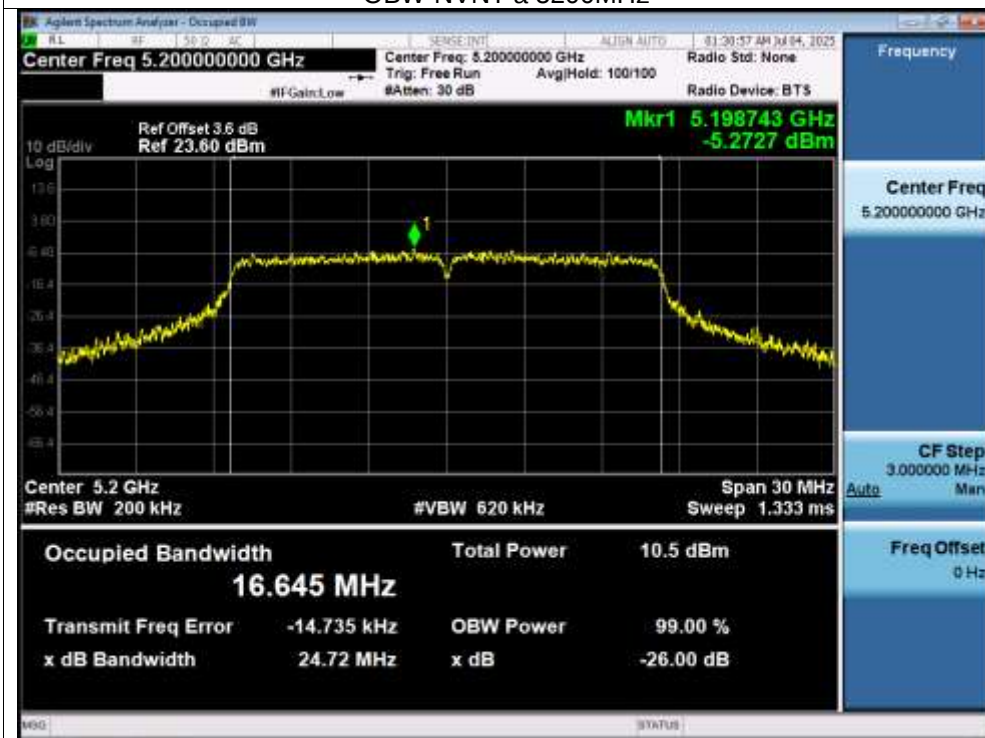


Test Graphs

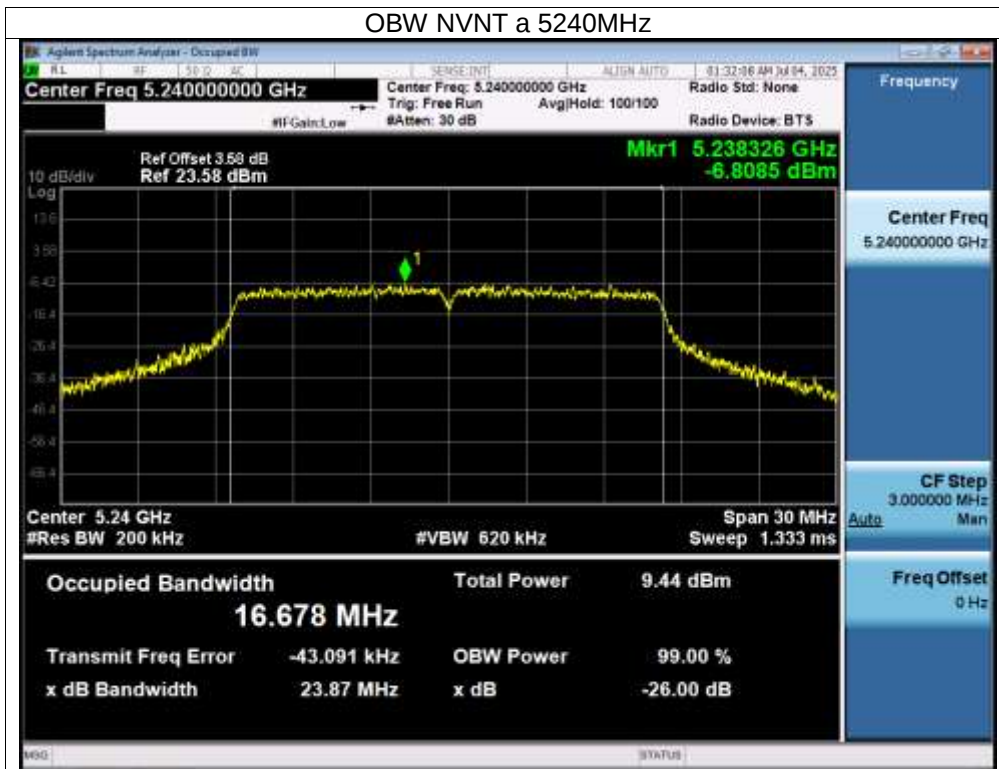
OBW NVNT a 5180MHz



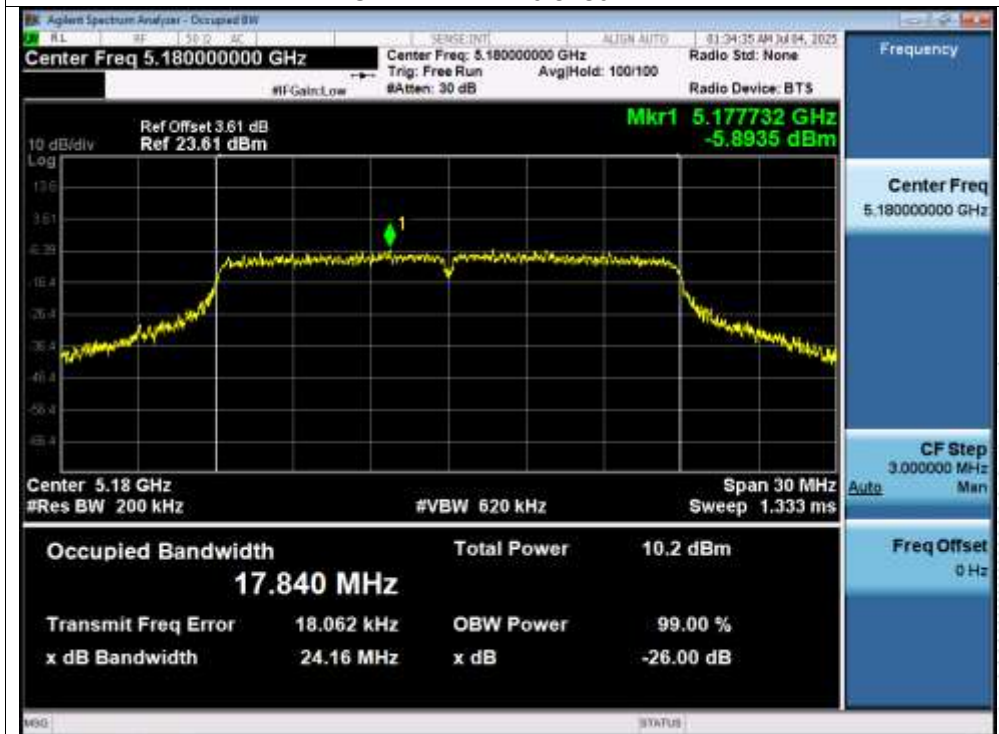
OBW NVNT a 5200MHz



OBW NVNT a 5240MHz



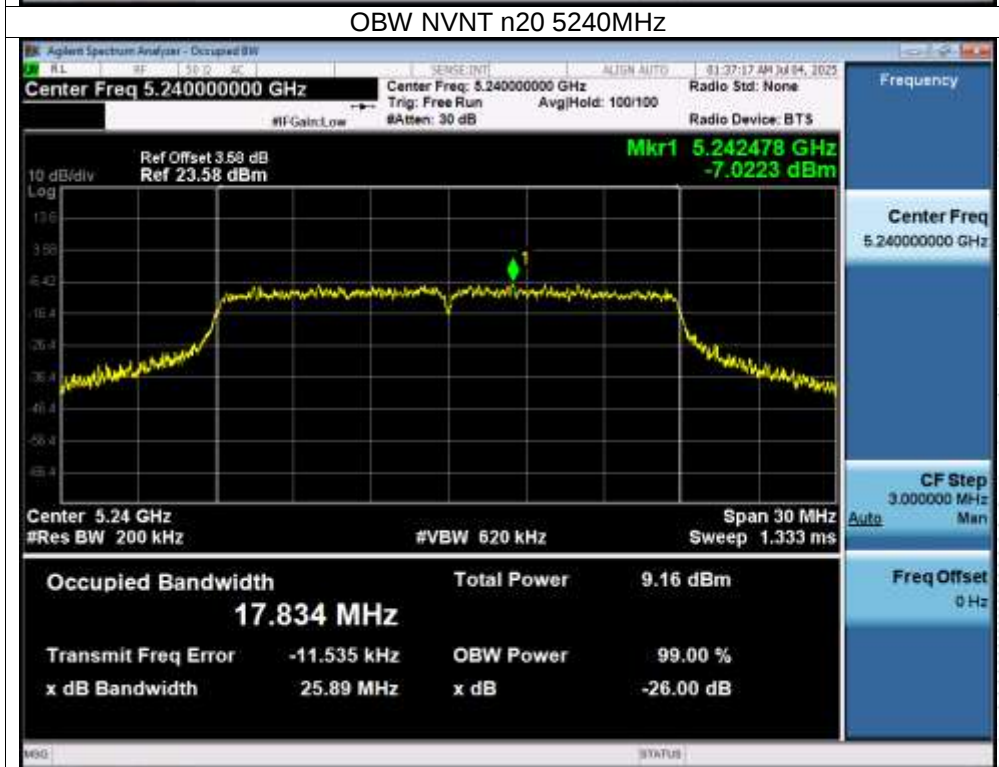
OBW NVNT n20 5180MHz



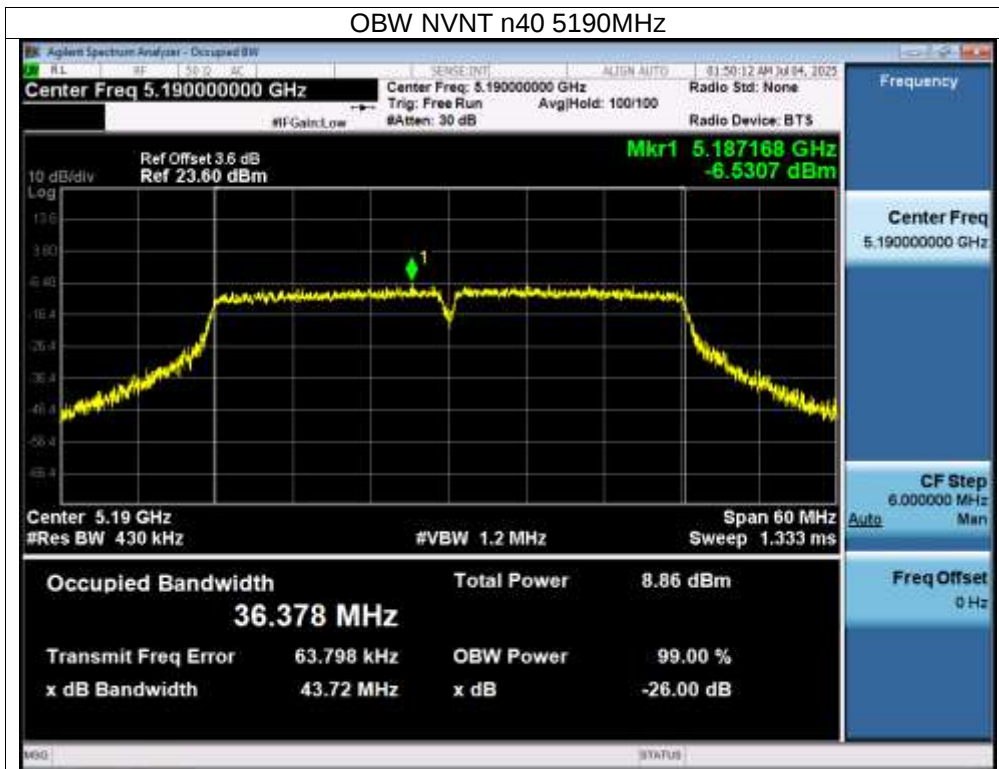
OBW NVNT n20 5200MHz



OBW NVNT n20 5240MHz



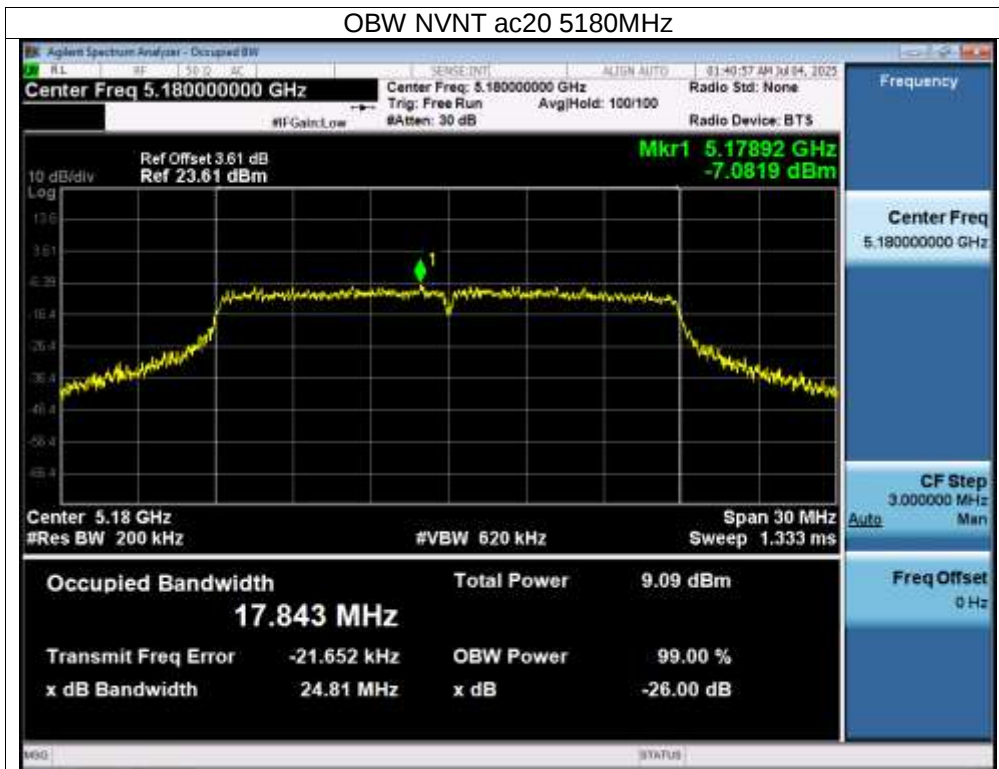
OBW NVNT n40 5190MHz



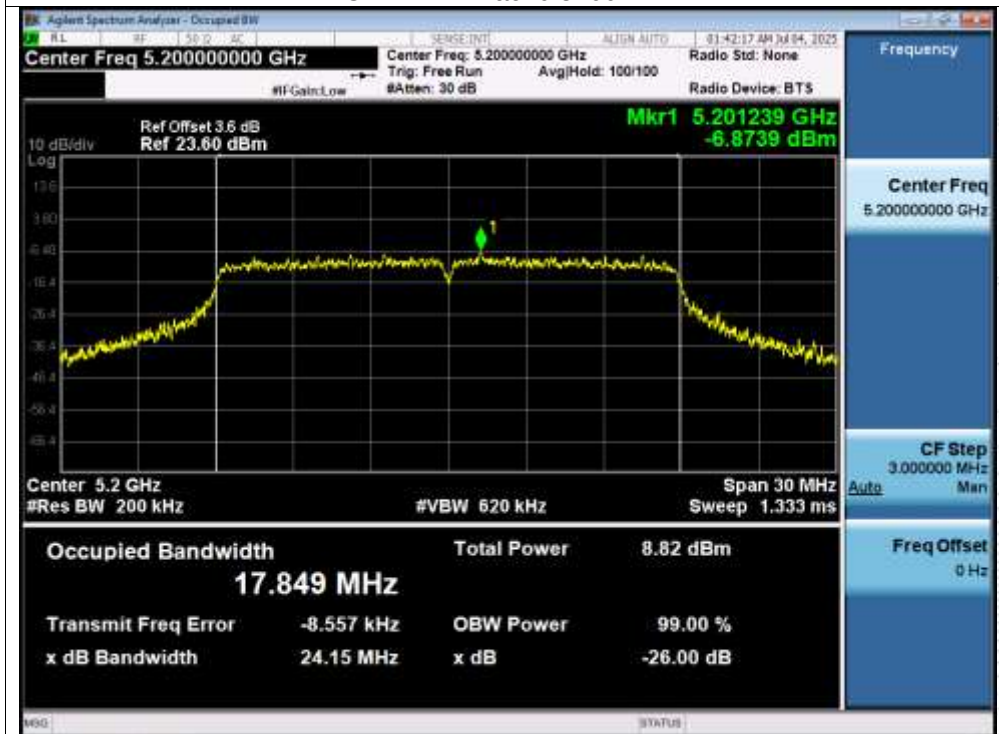
OBW NVNT n40 5230MHz



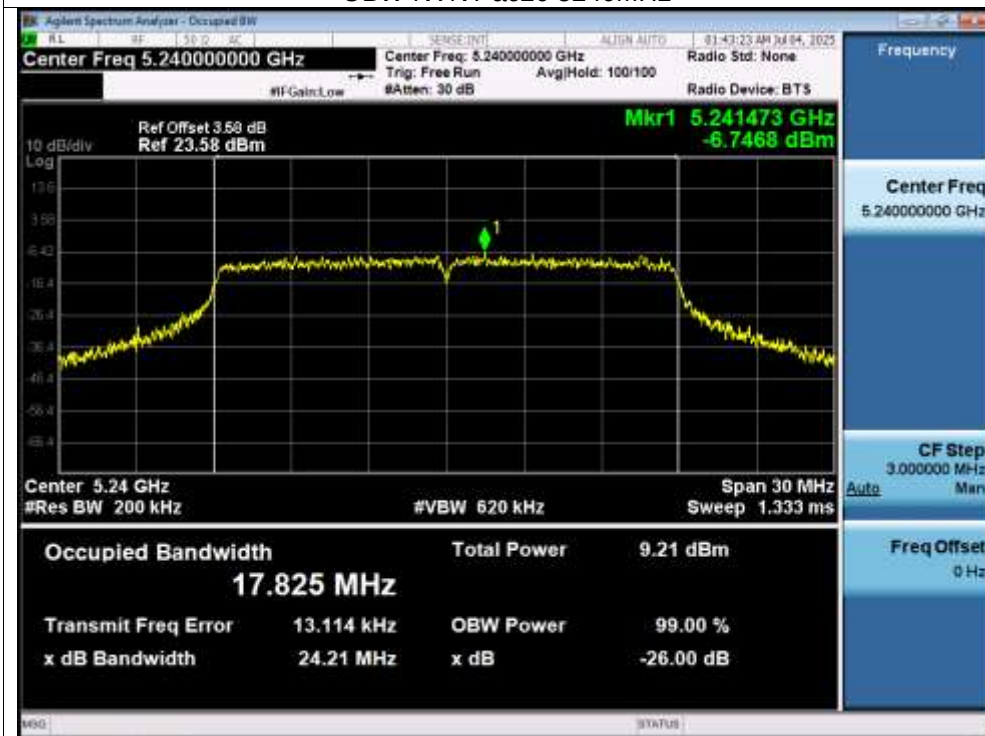
OBW NVNT ac20 5180MHz



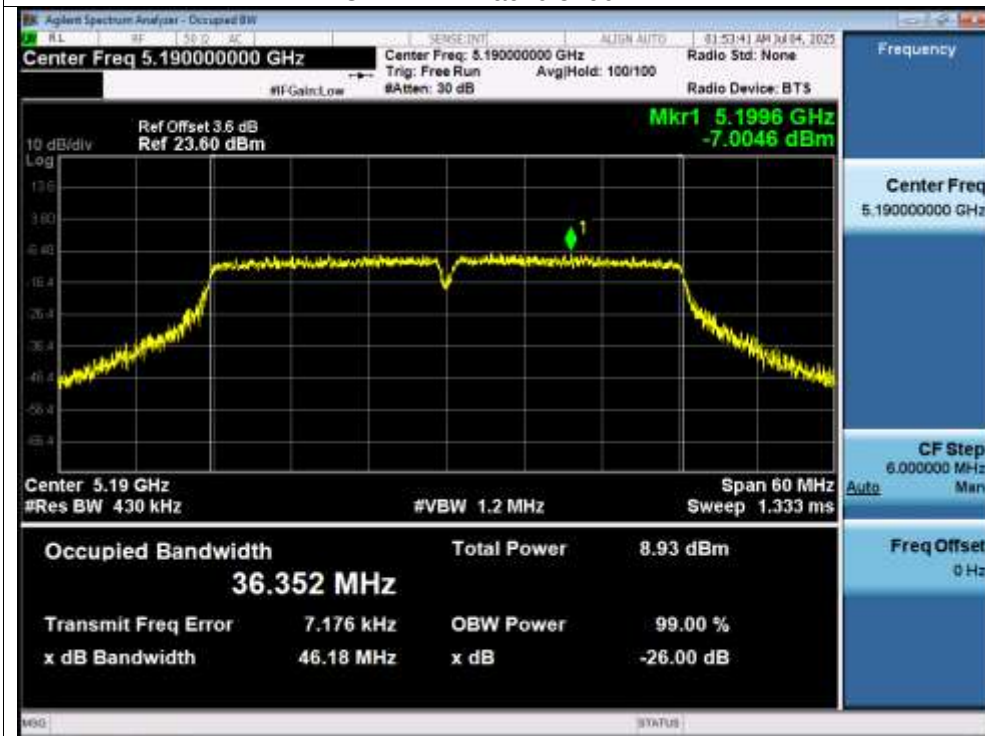
OBW NVNT ac20 5200MHz



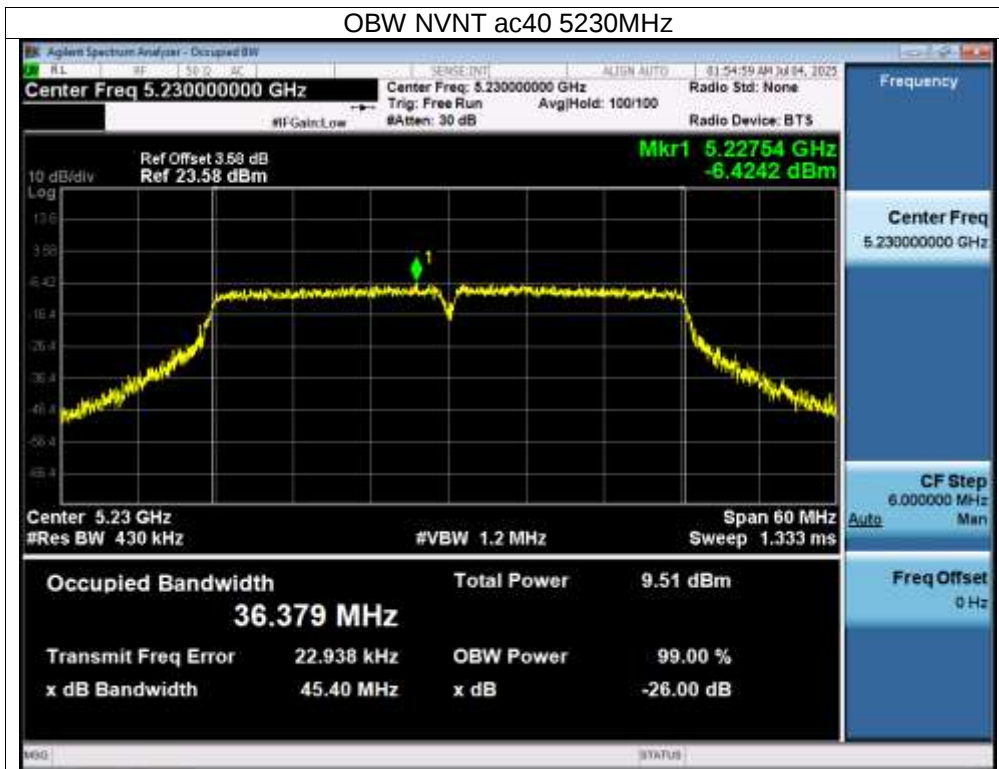
OBW NVNT ac20 5240MHz



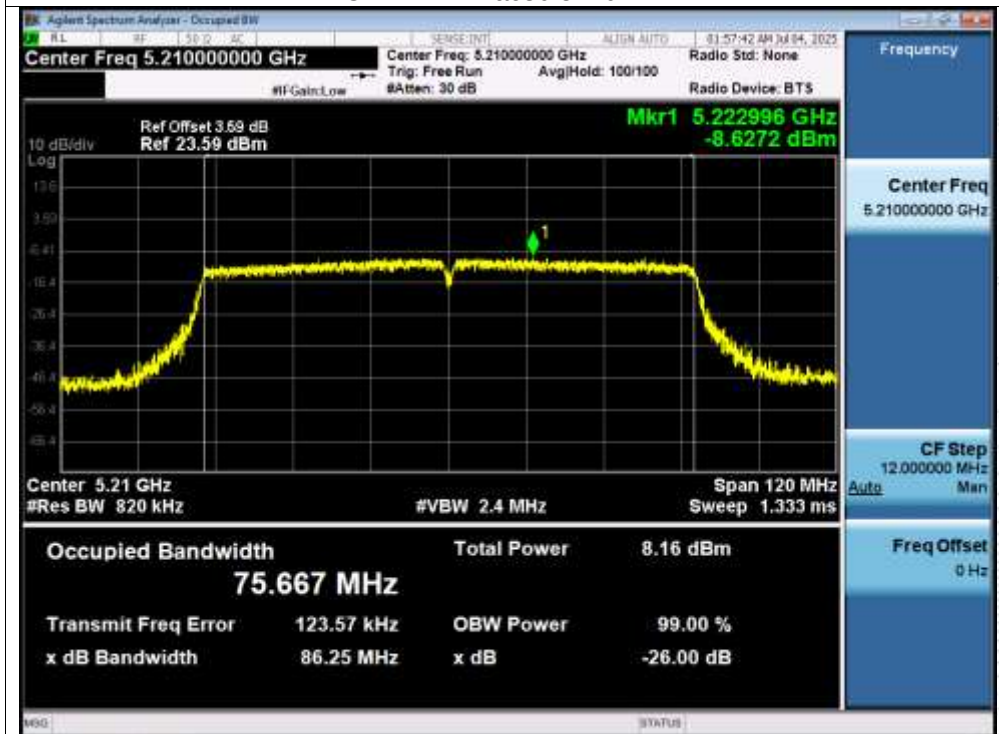
OBW NVNT ac40 5190MHz



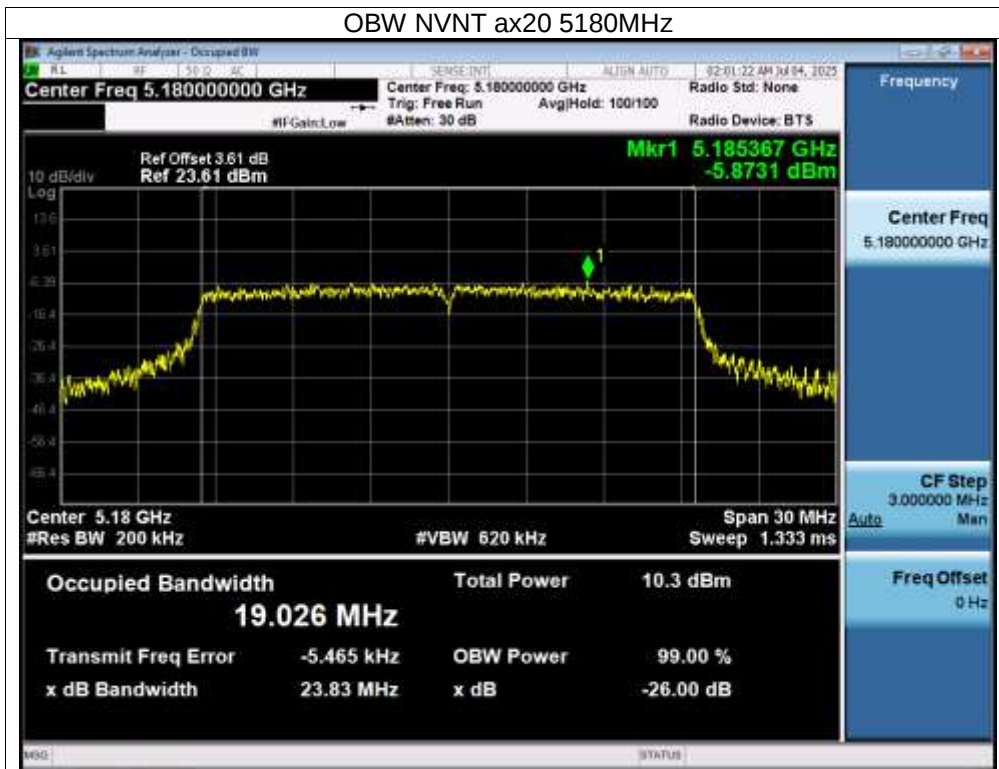
OBW NVNT ac40 5230MHz



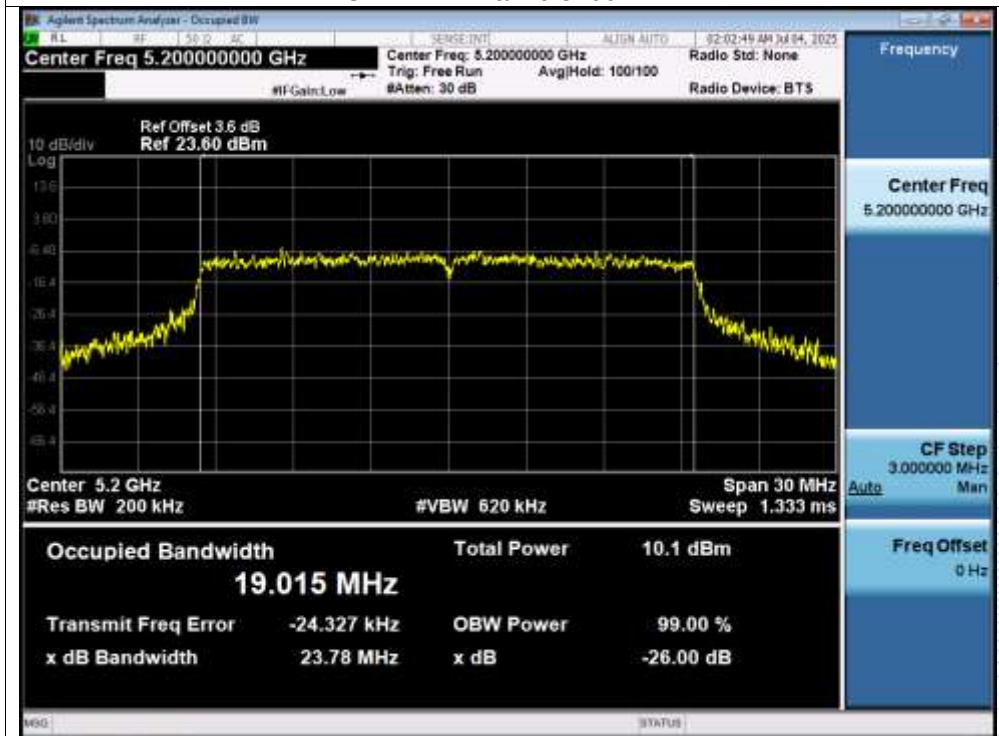
OBW NVNT ac80 5210MHz



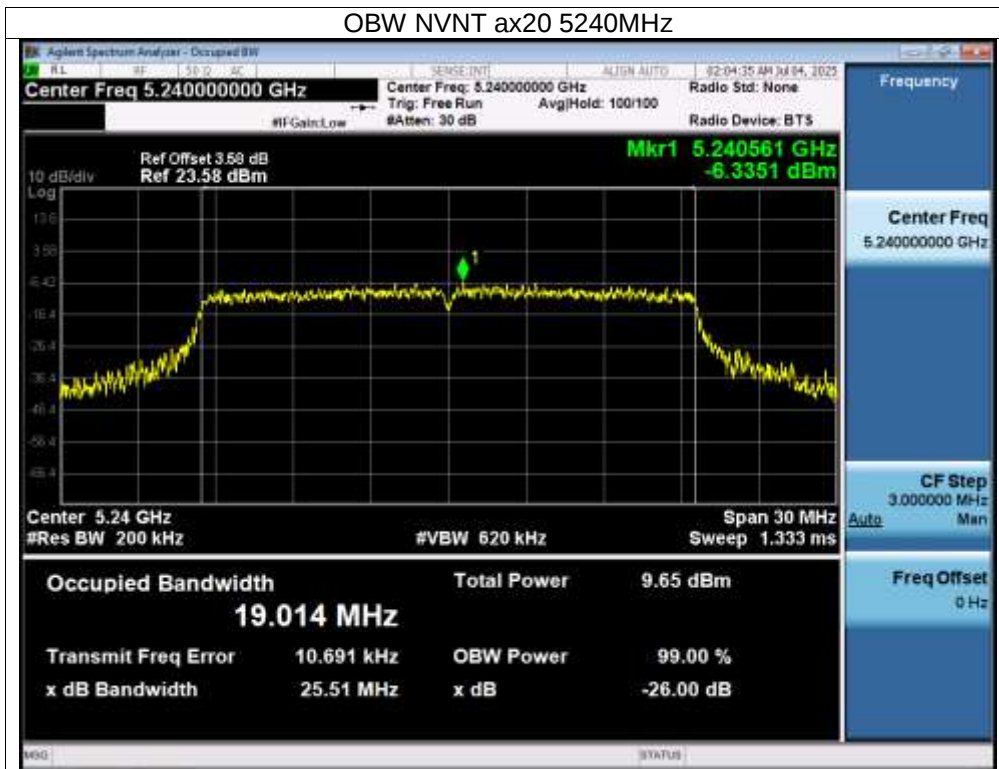
OBW NVNT ax20 5180MHz



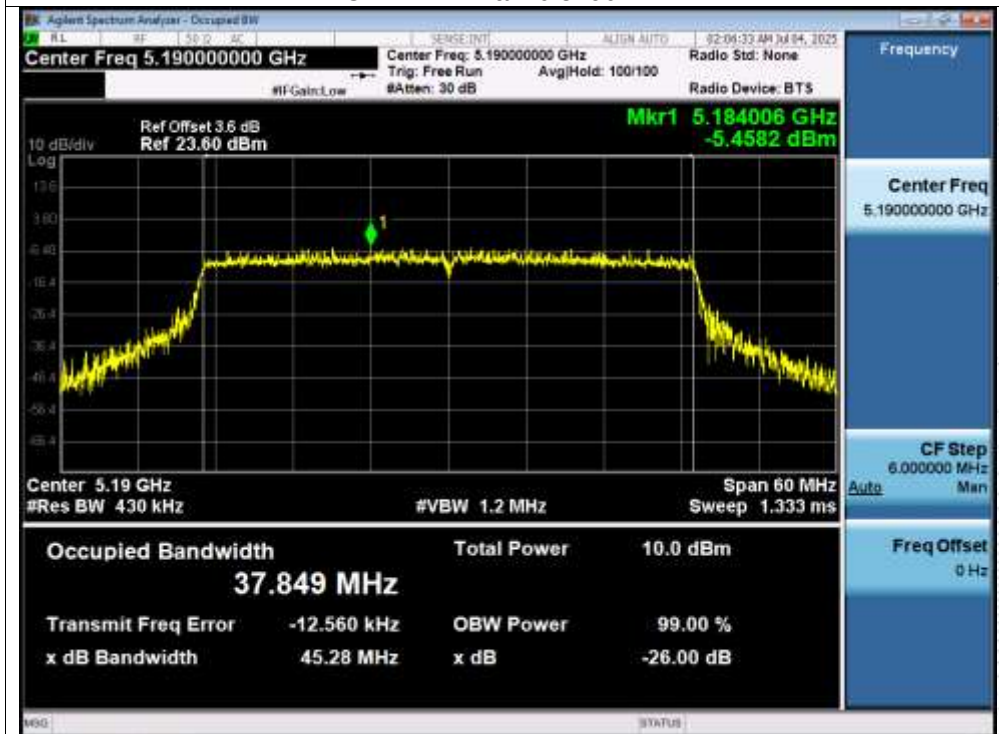
OBW NVNT ax20 5200MHz



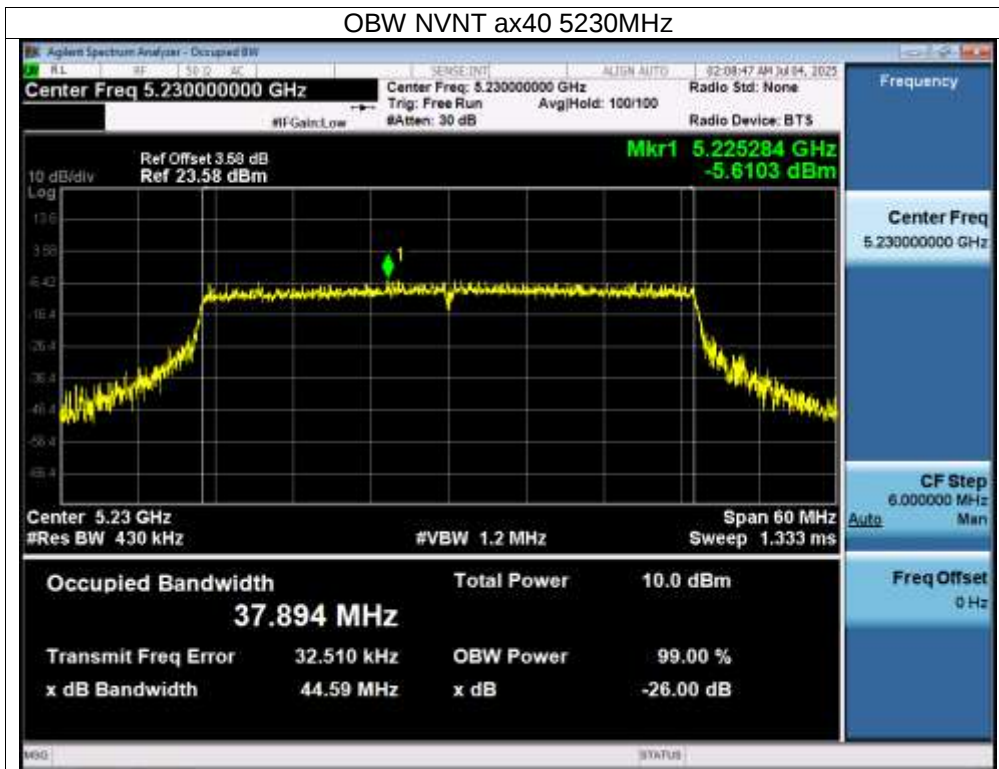
OBW NVNT ax20 5240MHz



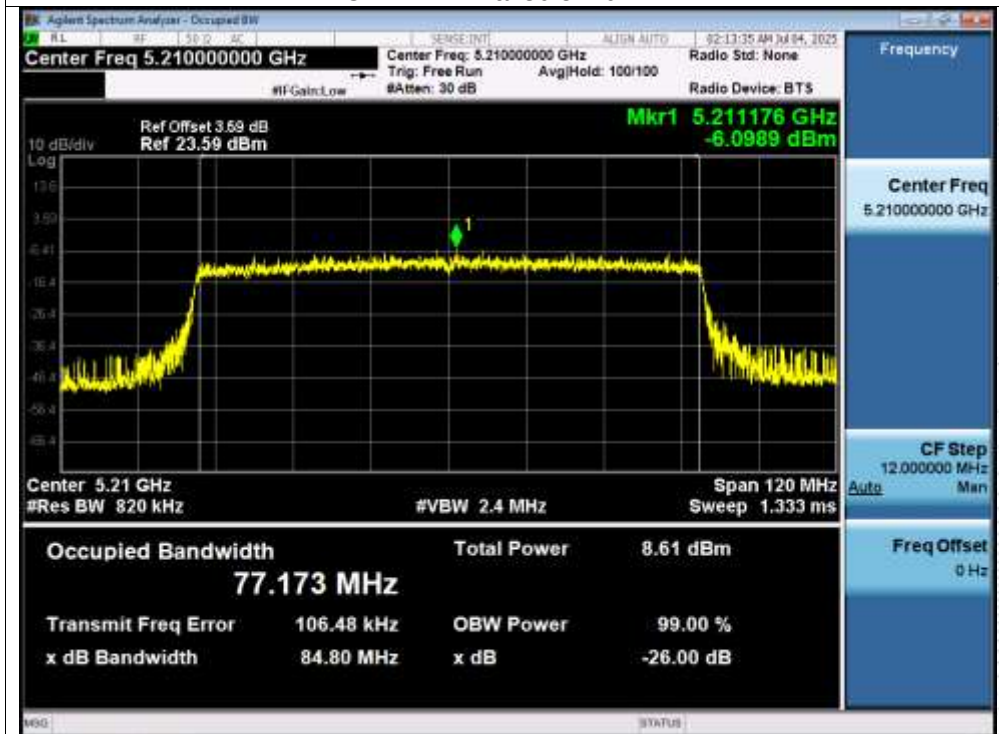
OBW NVNT ax40 5190MHz



OBW NVNT ax40 5230MHz



OBW NVNT ax80 5210MHz



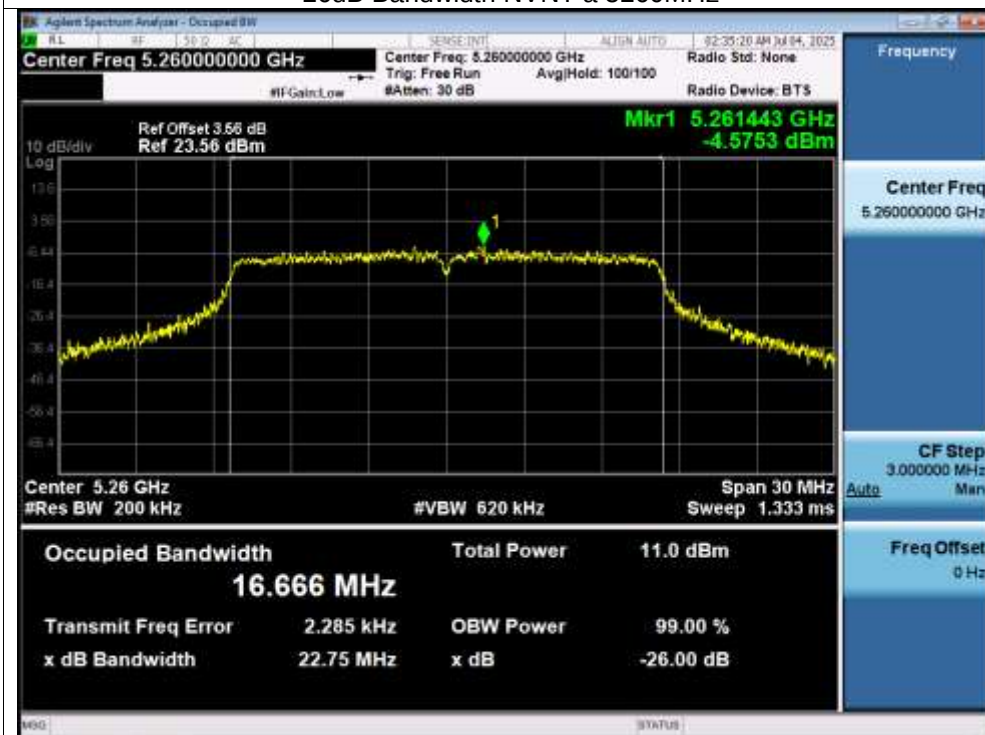
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	26dB bandwidth (MHz)	99% bandwidth (MHz)	Result
NVNT	a	5260	22.750	16.674	Pass
NVNT	a	5280	23.864	16.651	Pass
NVNT	a	5320	23.816	16.618	Pass
NVNT	n20	5260	24.962	17.841	Pass
NVNT	n20	5280	25.634	17.852	Pass
NVNT	n20	5320	24.125	17.815	Pass
NVNT	n40	5270	44.928	36.381	Pass
NVNT	n40	5310	45.366	36.350	Pass
NVNT	ac20	5260	24.208	17.838	Pass
NVNT	ac20	5280	24.480	17.823	Pass
NVNT	ac20	5320	24.647	17.823	Pass
NVNT	ac40	5270	46.279	36.353	Pass
NVNT	ac40	5310	46.178	36.349	Pass
NVNT	ac80	5290	87.303	75.737	Pass
NVNT	ax20	5260	25.013	18.981	Pass
NVNT	ax20	5280	23.490	19.038	Pass
NVNT	ax20	5320	24.136	19.037	Pass
NVNT	ax40	5270	45.138	37.831	Pass
NVNT	ax40	5310	42.928	37.872	Pass
NVNT	ax80	5290	84.869	77.218	Pass

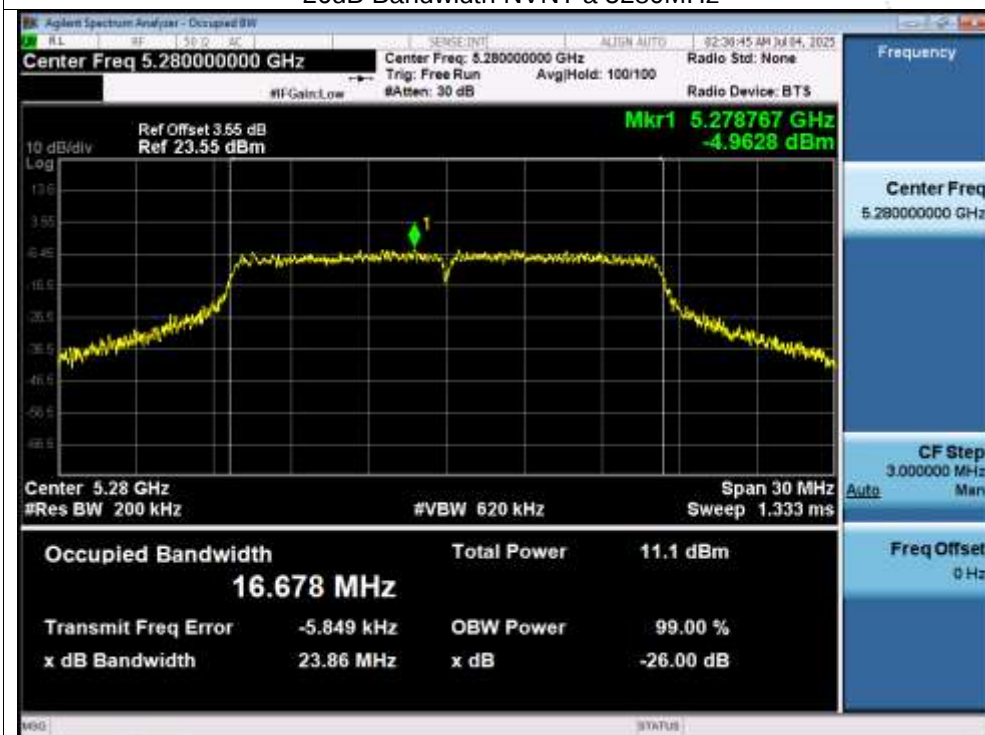
TC
3C
PPR
Report

Test Graphs

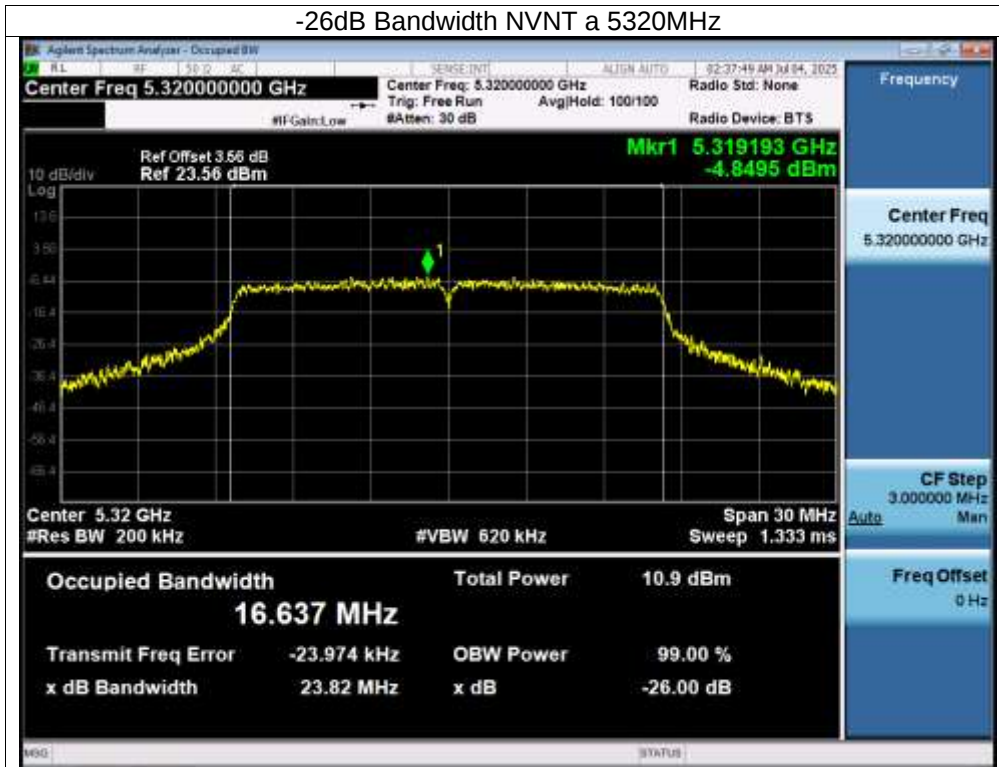
-26dB Bandwidth NVNT a 5260MHz



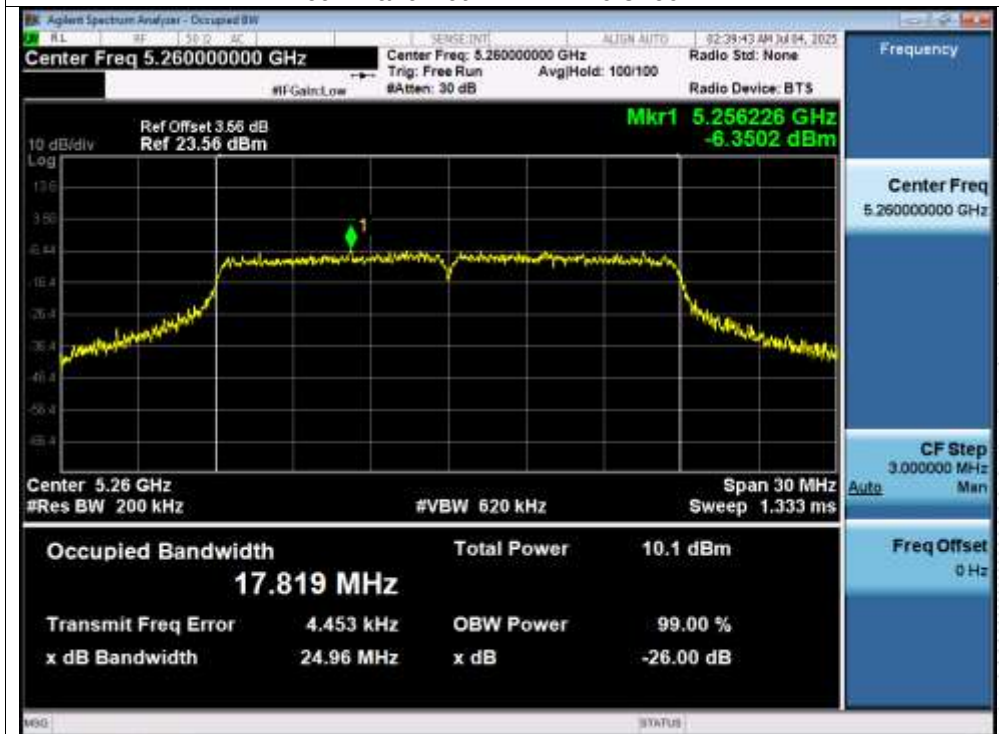
-26dB Bandwidth NVNT a 5280MHz



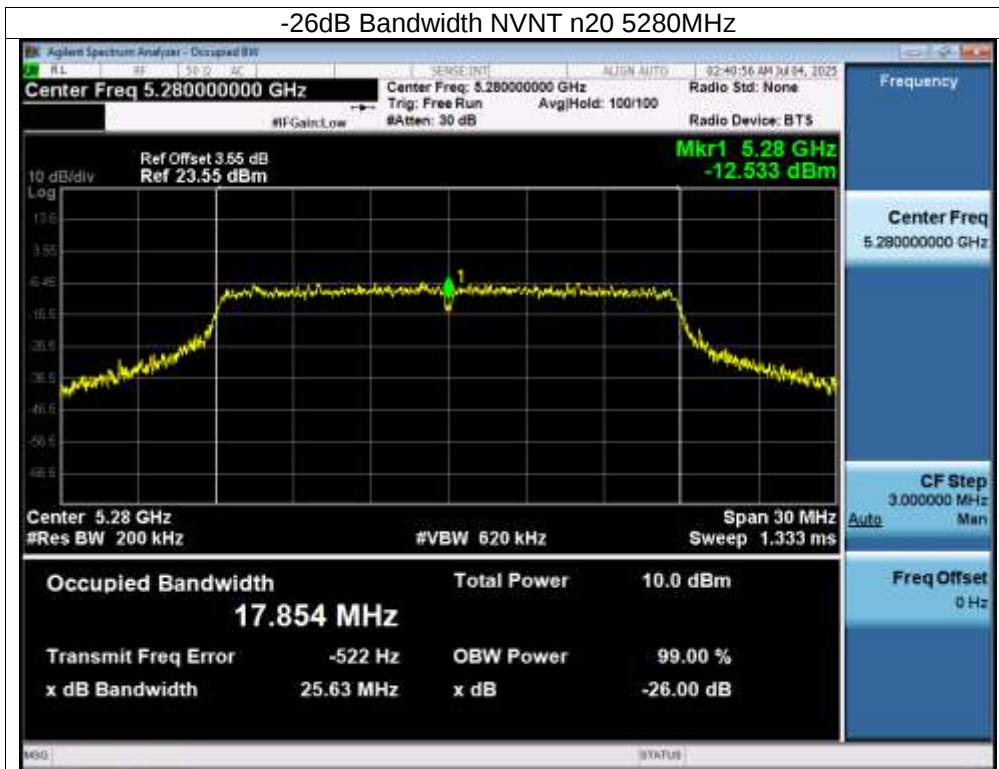
-26dB Bandwidth NVNT a 5320MHz



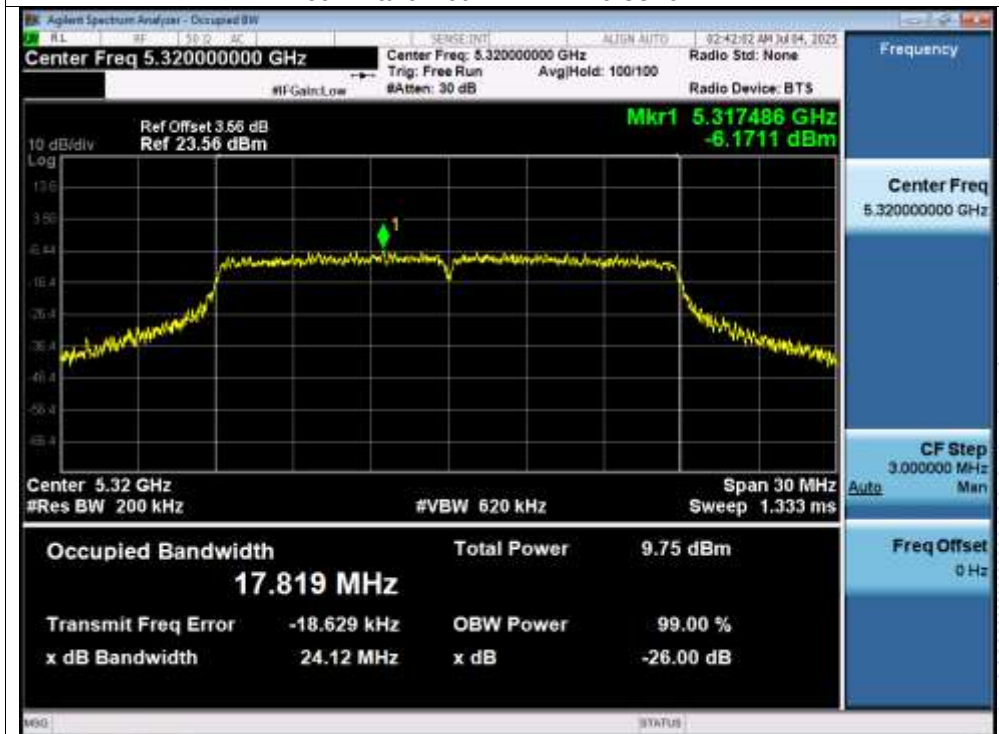
-26dB Bandwidth NVNT n20 5260MHz



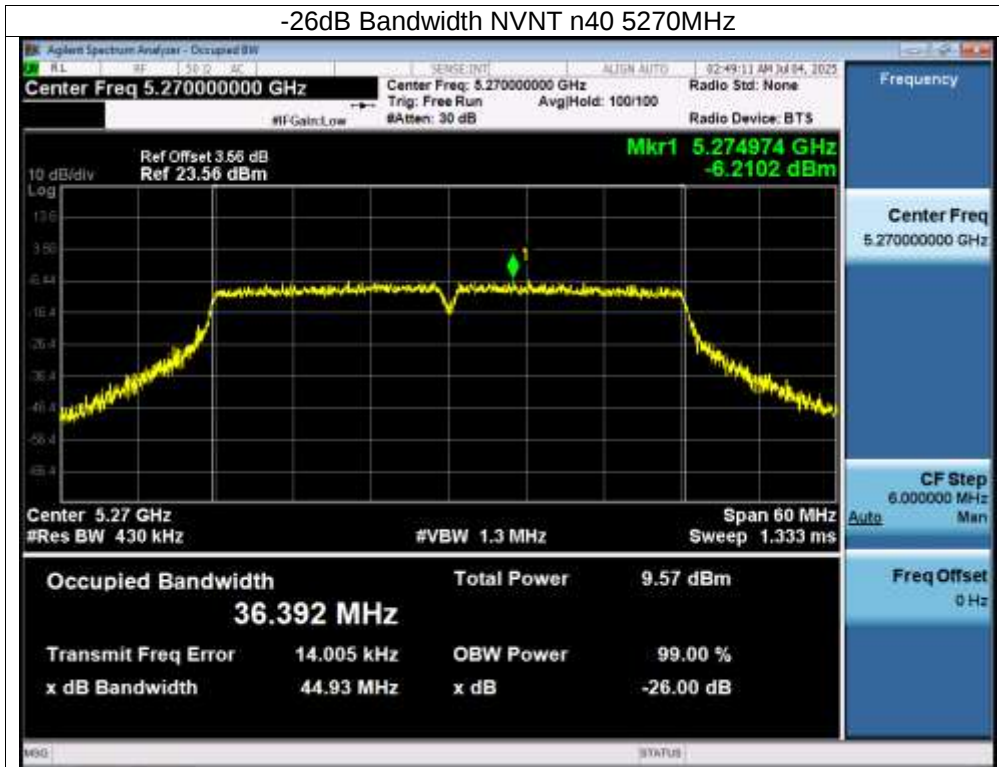
-26dB Bandwidth NVNT n20 5280MHz



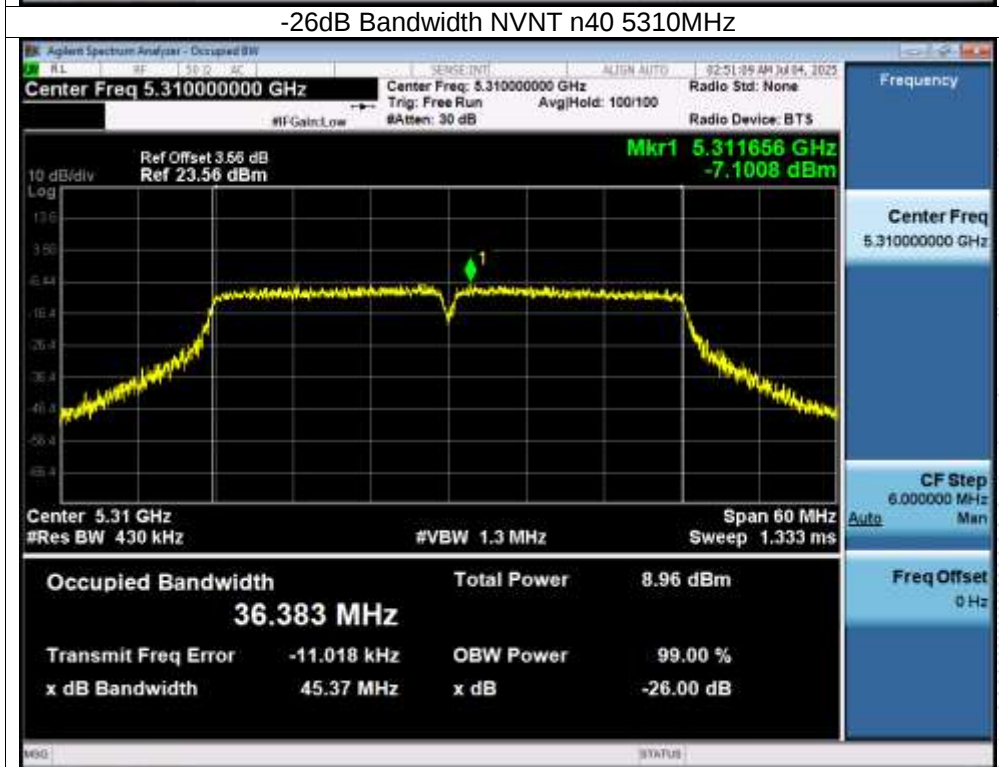
-26dB Bandwidth NVNT n20 5320MHz



-26dB Bandwidth NVNT n40 5270MHz



-26dB Bandwidth NVNT n40 5310MHz



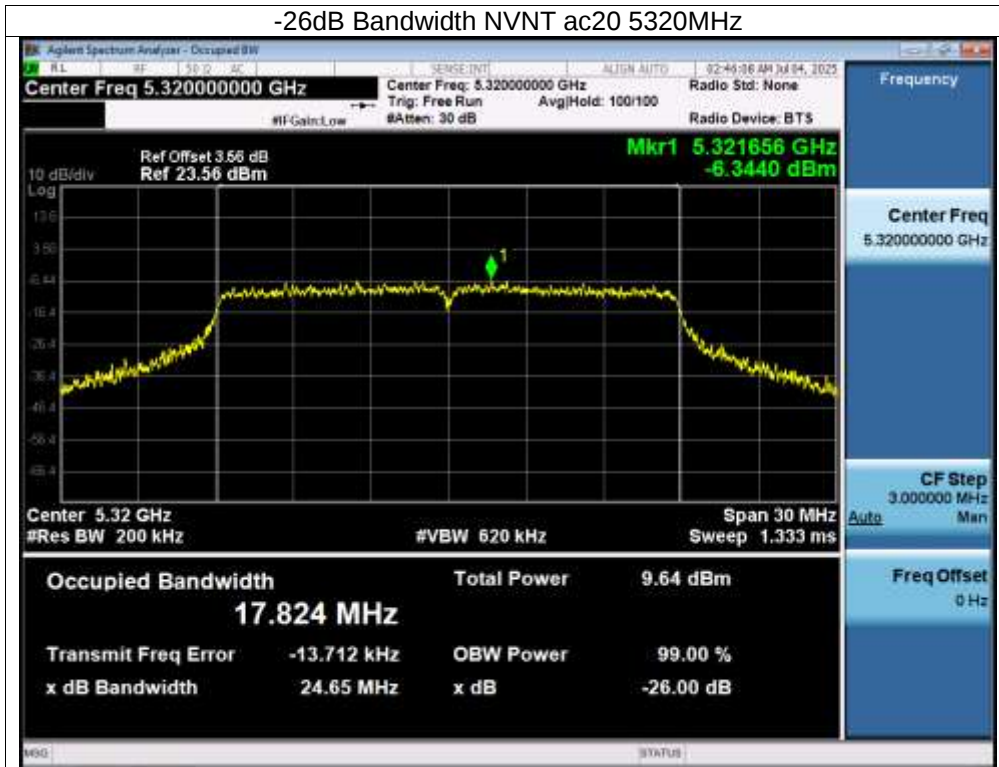
-26dB Bandwidth NVNT ac20 5260MHz



-26dB Bandwidth NVNT ac20 5280MHz



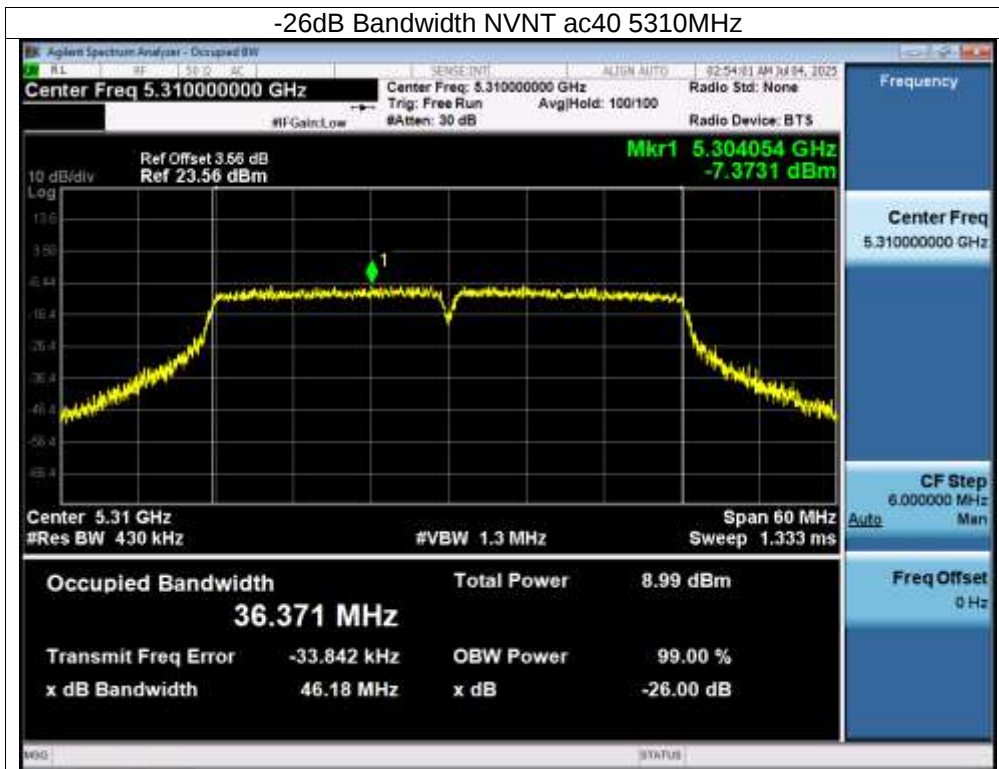
-26dB Bandwidth NVNT ac20 5320MHz



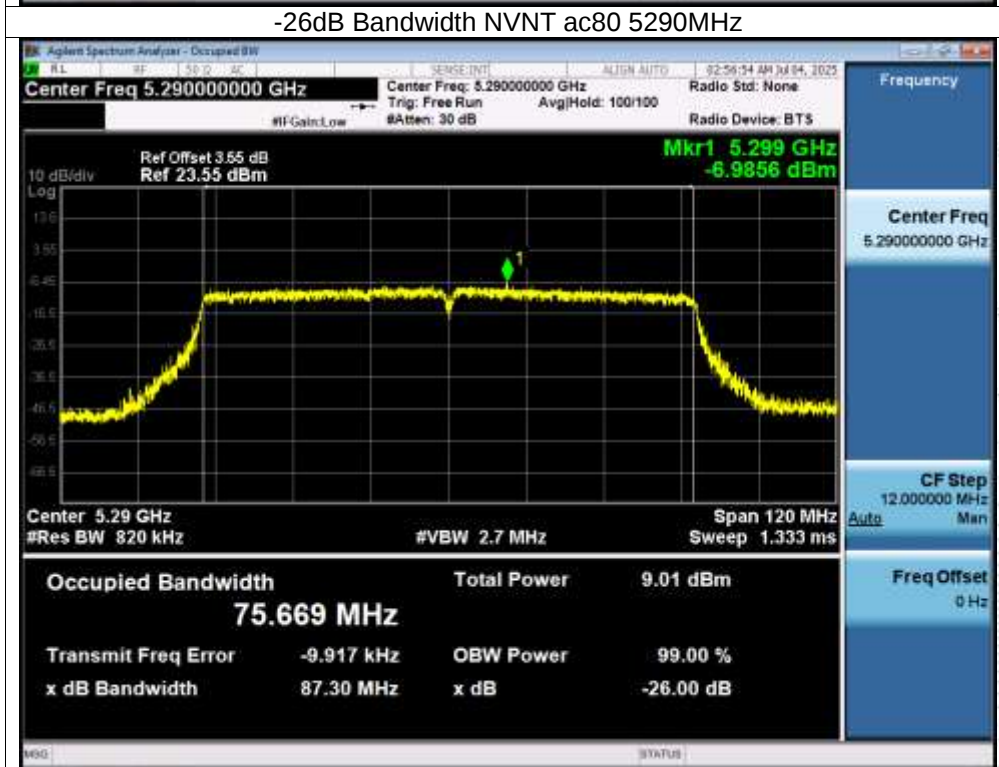
-26dB Bandwidth NVNT ac40 5270MHz



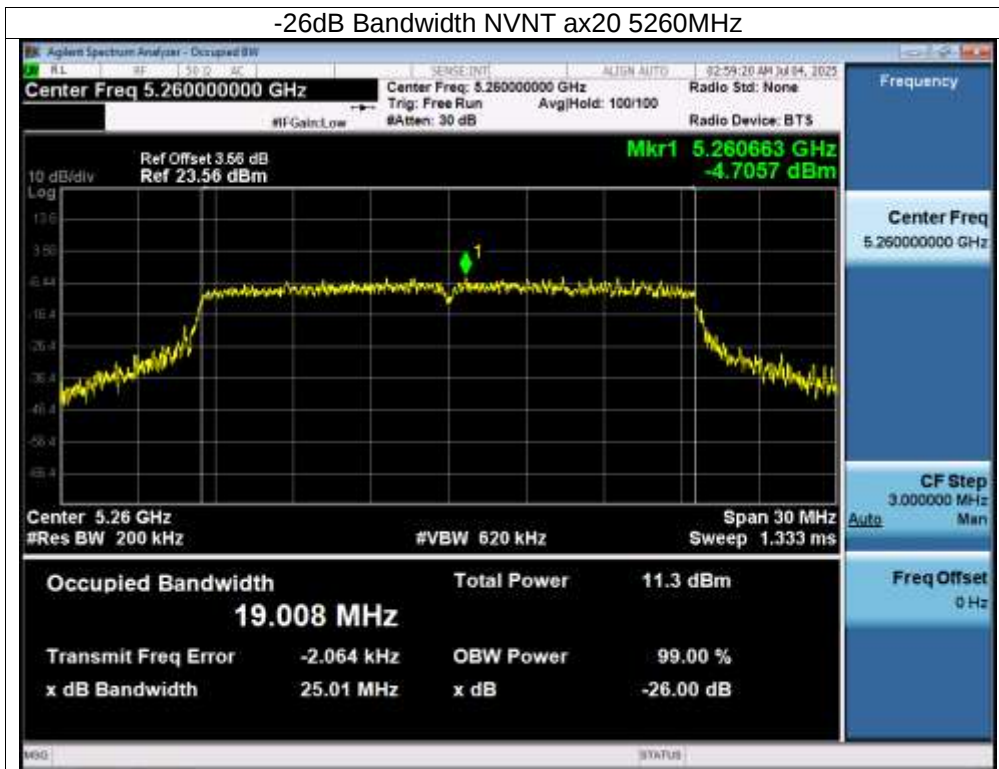
-26dB Bandwidth NVNT ac40 5310MHz



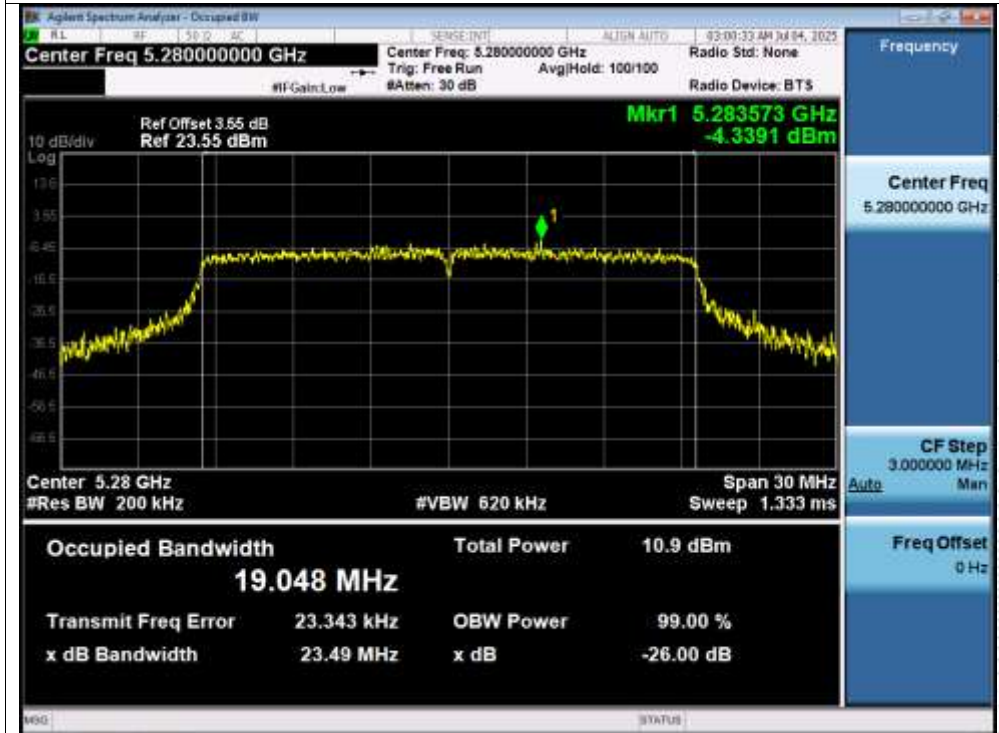
-26dB Bandwidth NVNT ac80 5290MHz



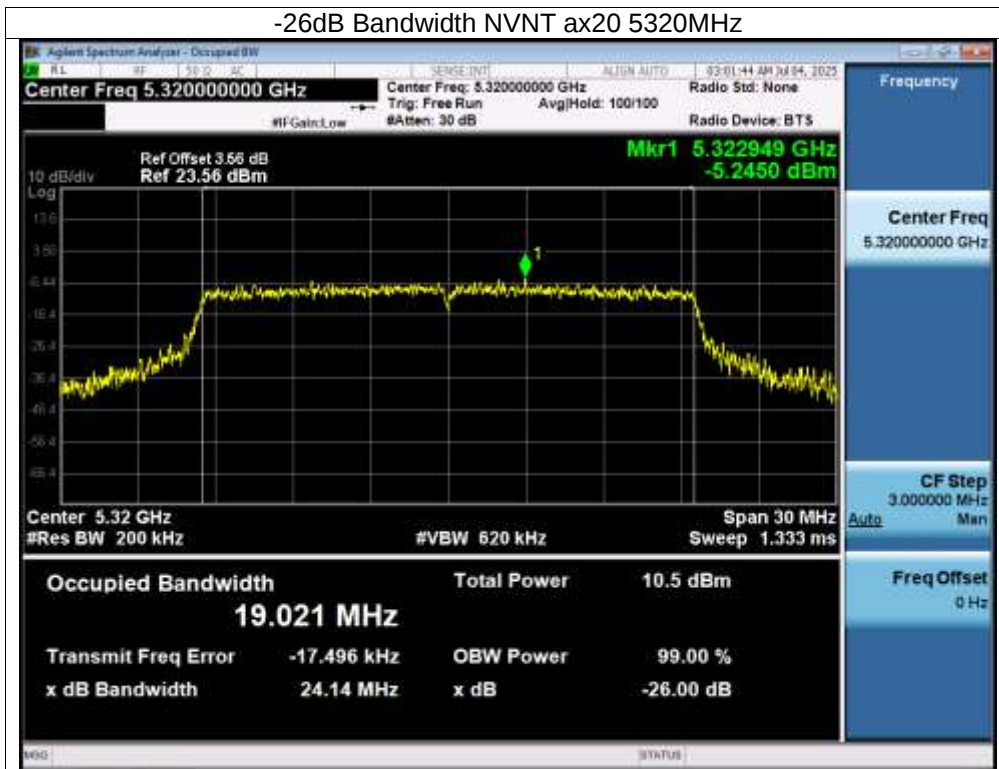
-26dB Bandwidth NVNT ax20 5260MHz



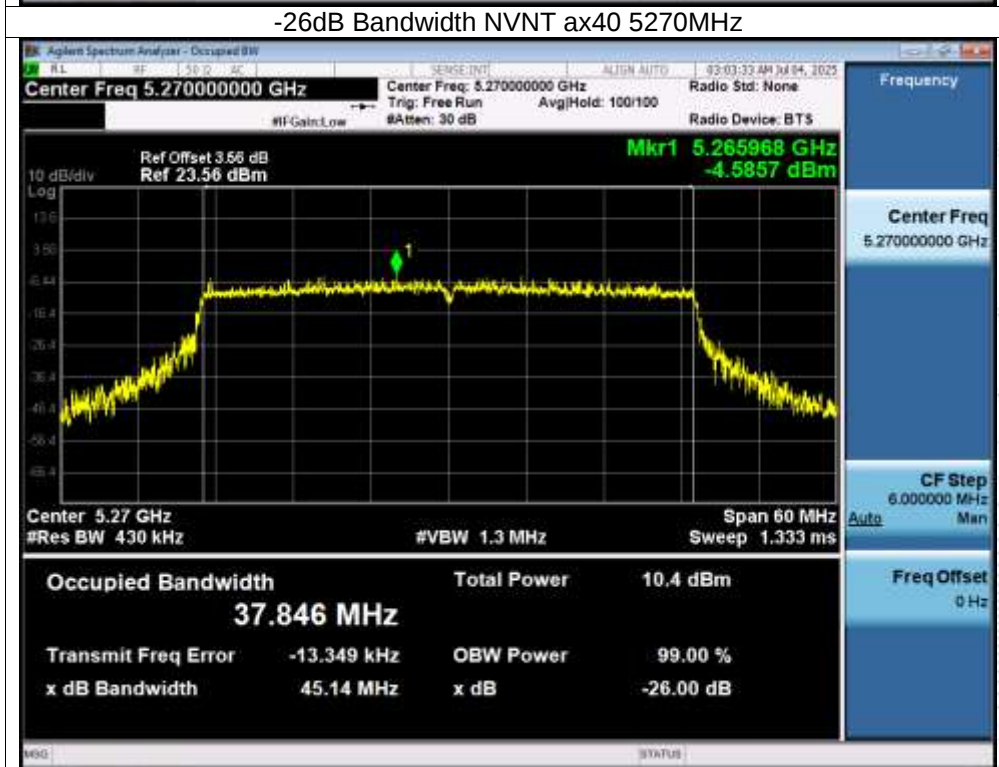
-26dB Bandwidth NVNT ax20 5280MHz



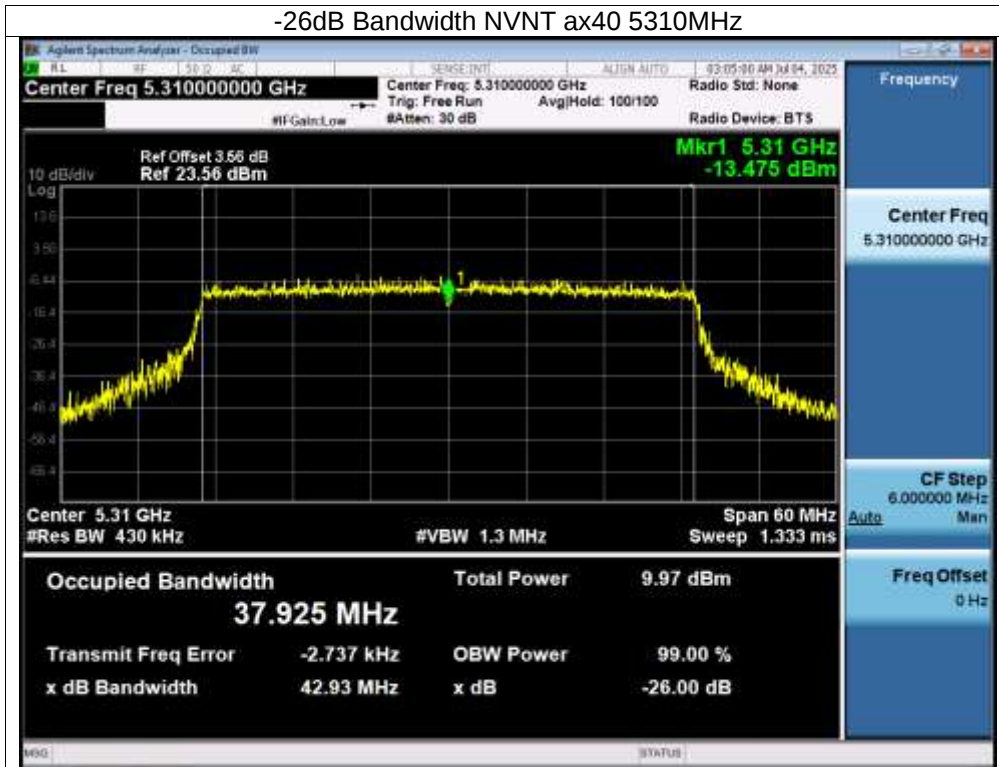
-26dB Bandwidth NVNT ax20 5320MHz



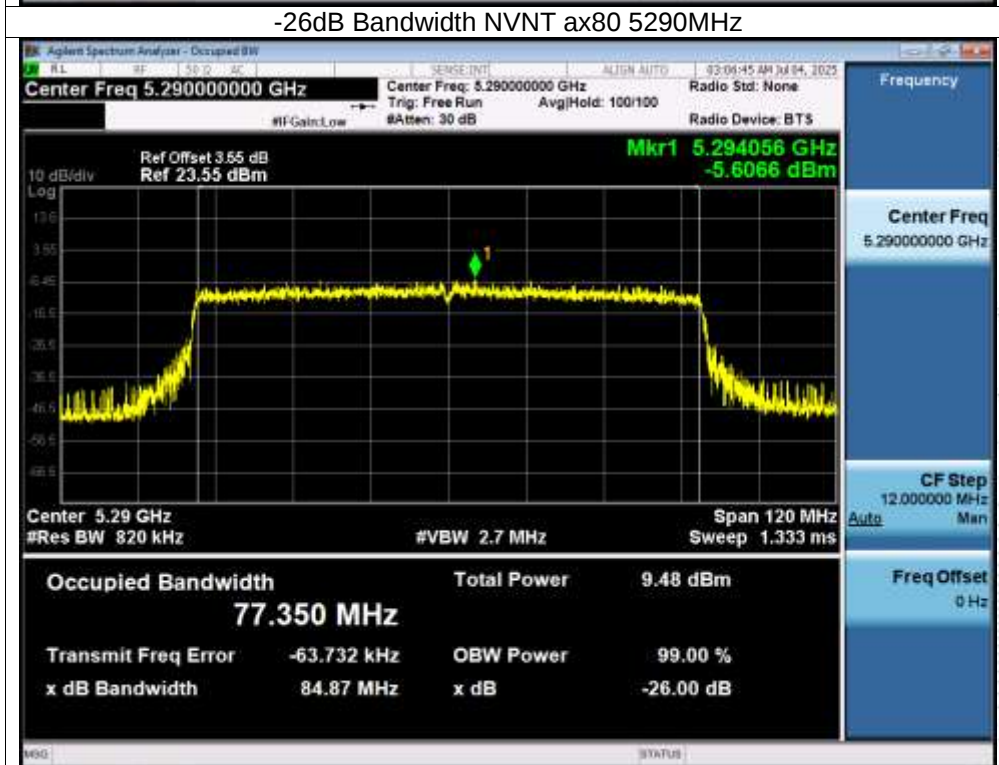
-26dB Bandwidth NVNT ax40 5270MHz



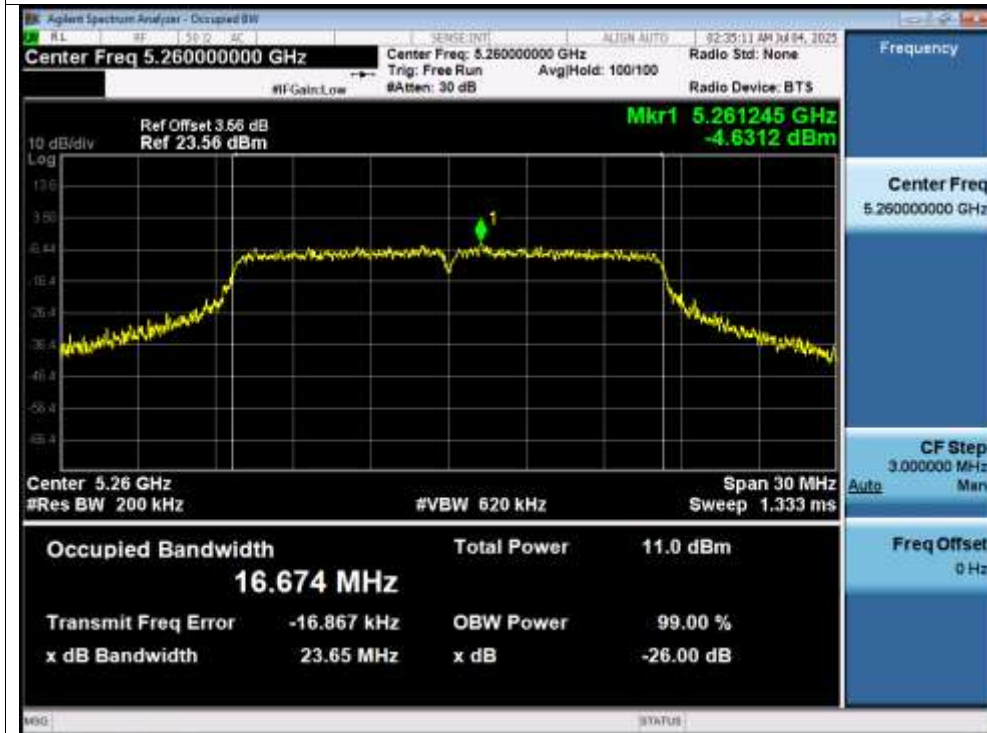
-26dB Bandwidth NVNT ax40 5310MHz



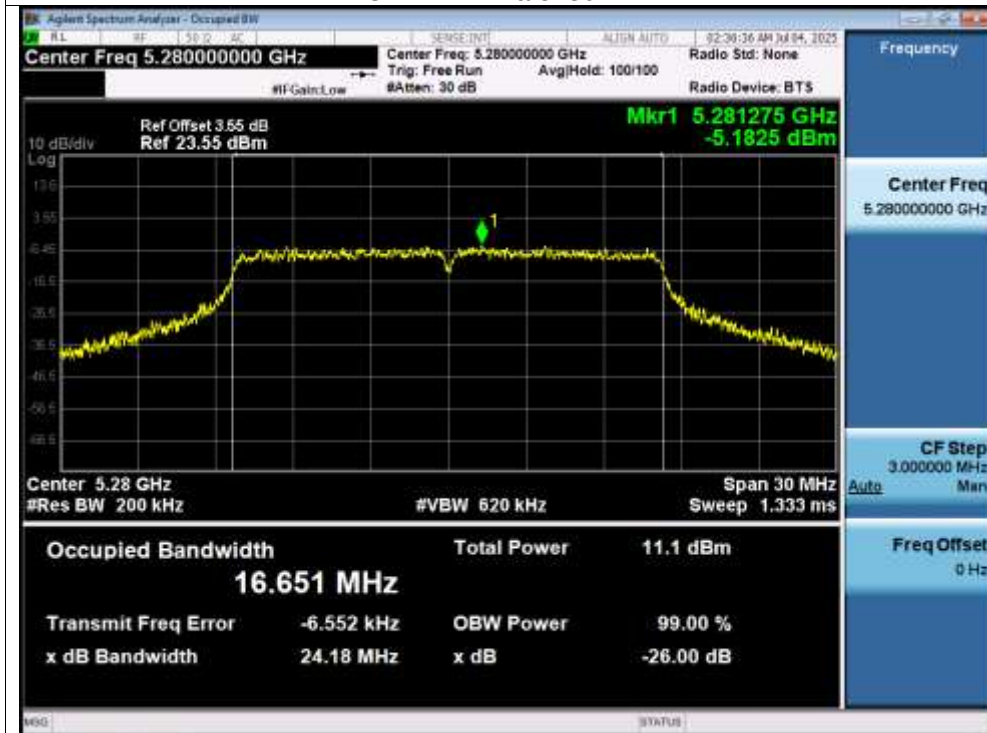
-26dB Bandwidth NVNT ax80 5290MHz



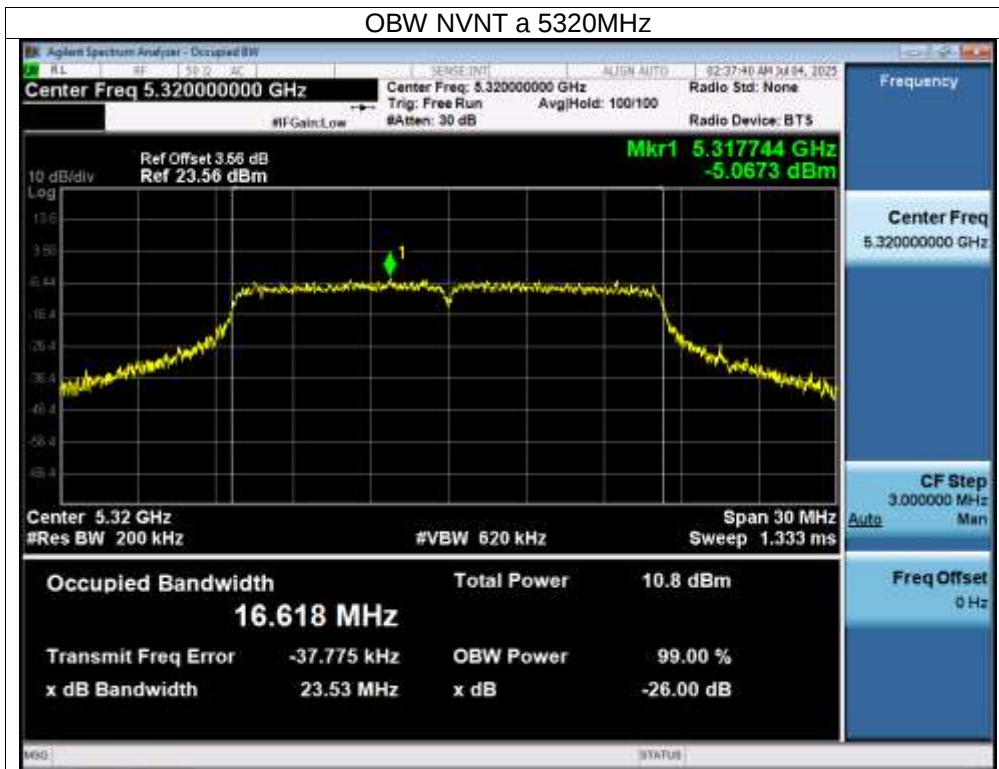
Test Graphs
OBW NVNT a 5260MHz



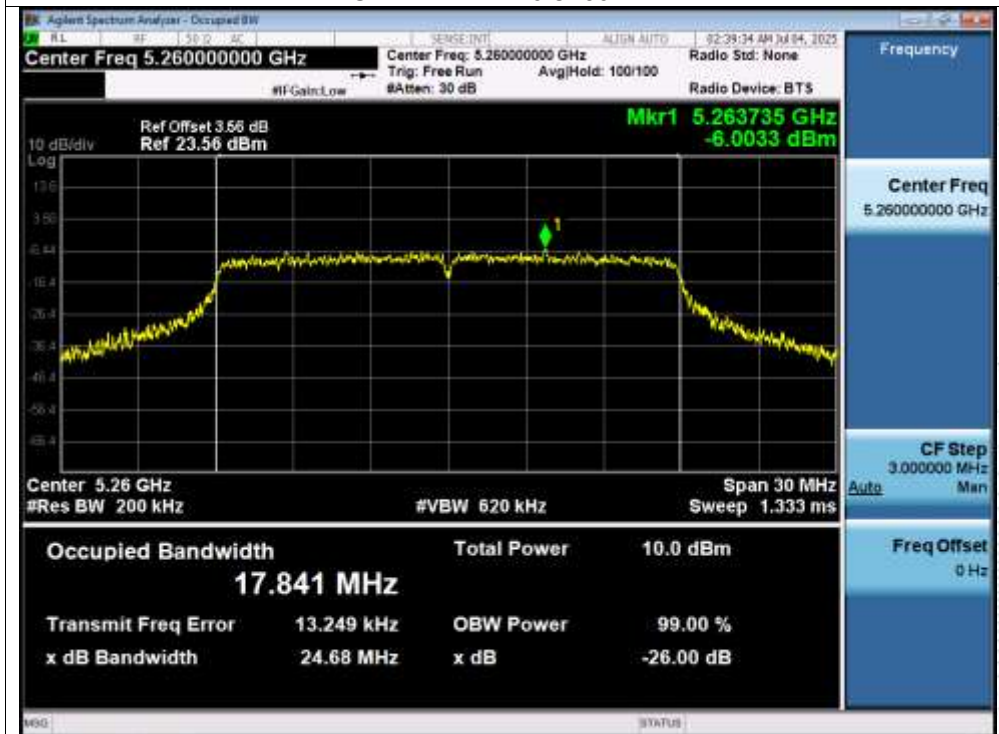
OBW NVNT a 5280MHz



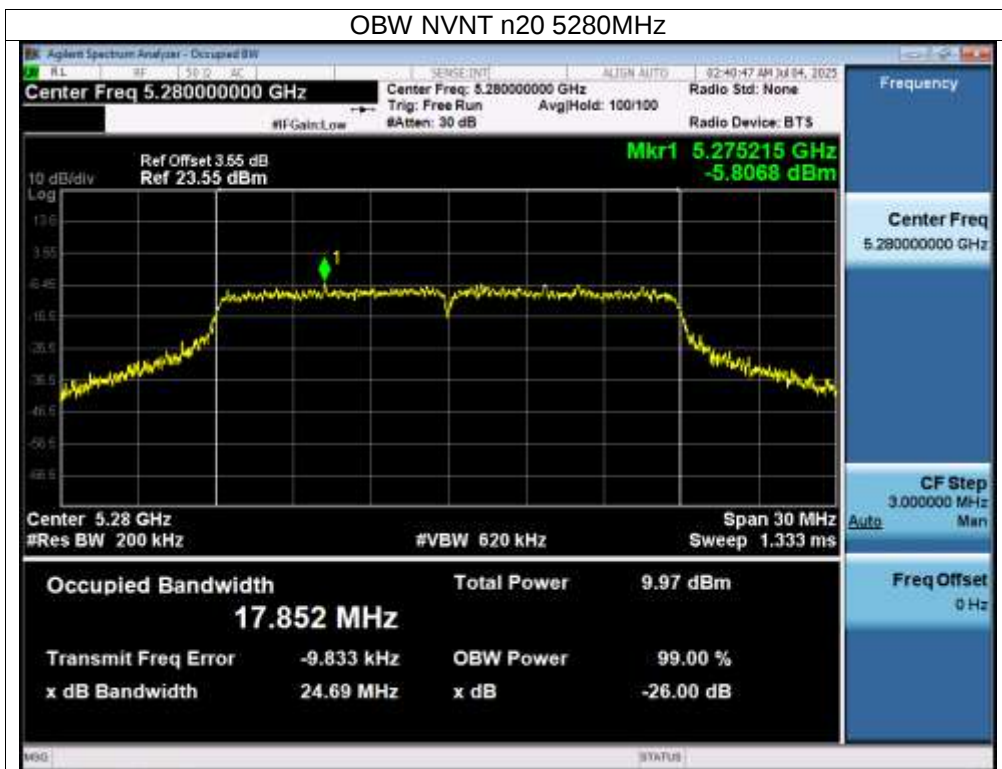
OBW NVNT a 5320MHz



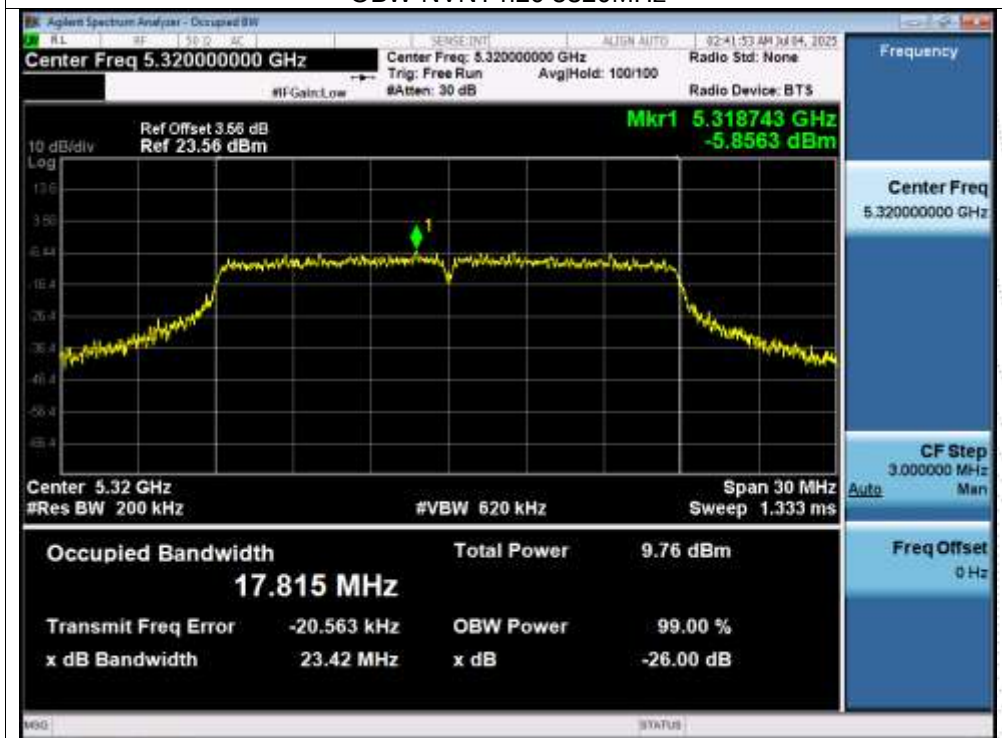
OBW NVNT n20 5260MHz



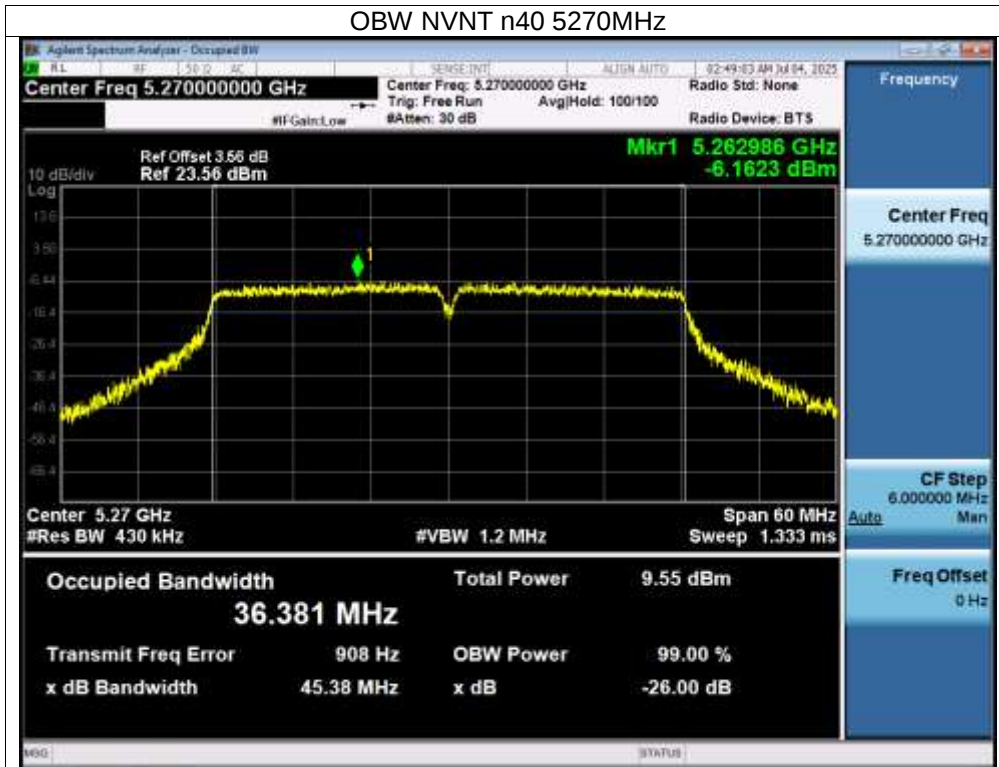
OBW NVNT n20 5280MHz



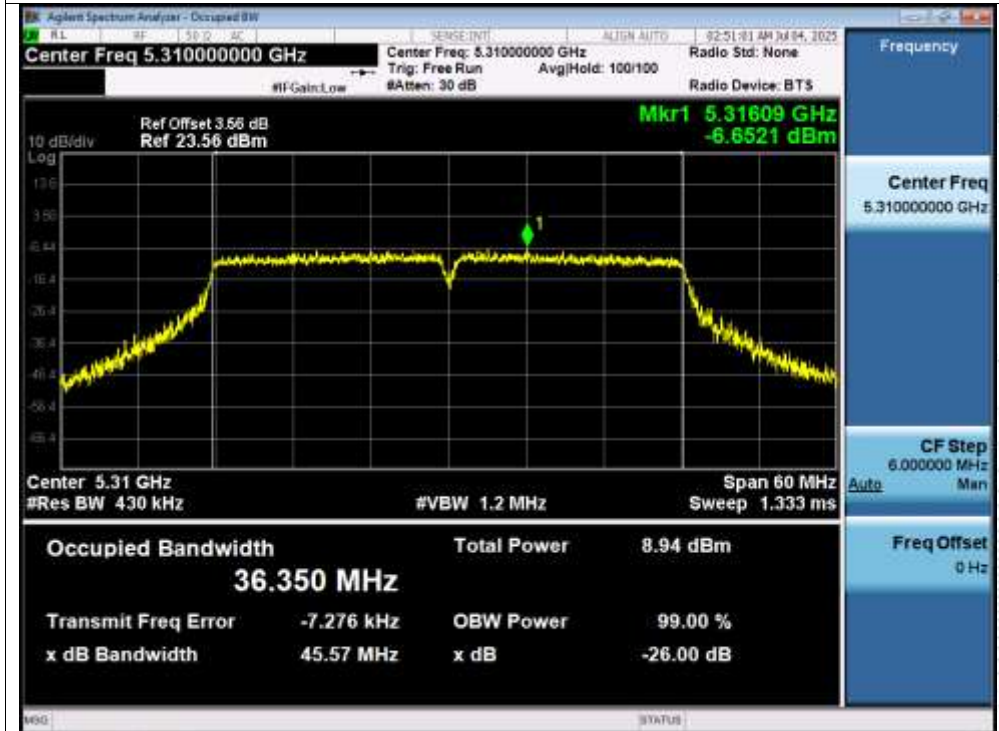
OBW NVNT n20 5320MHz



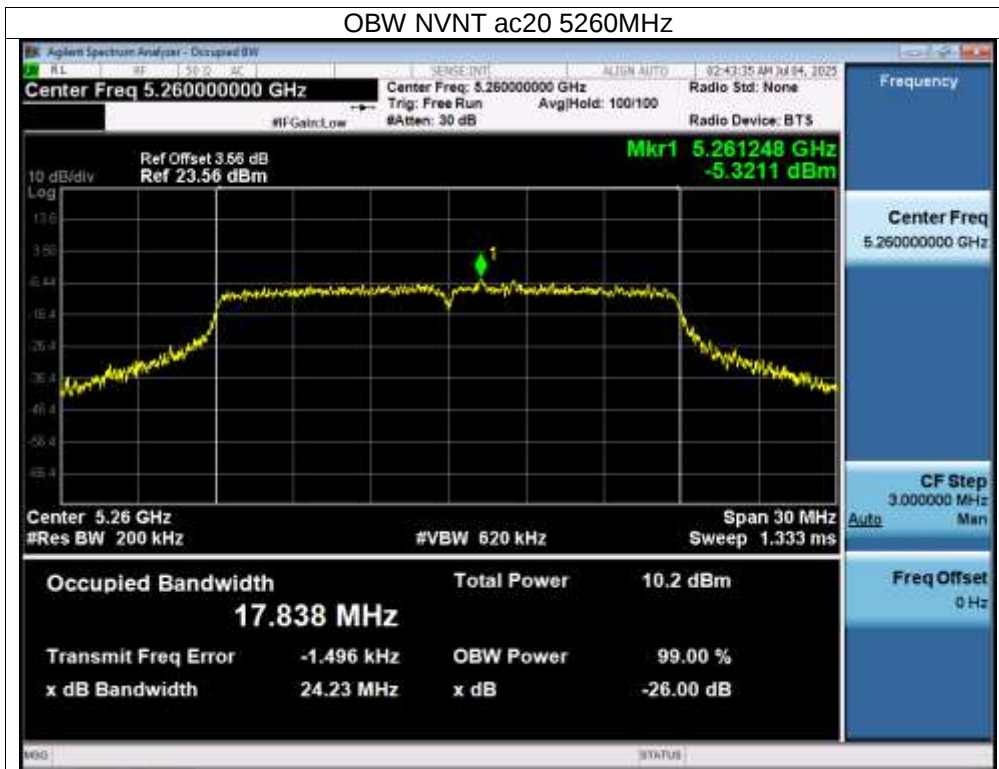
OBW NVNT n40 5270MHz



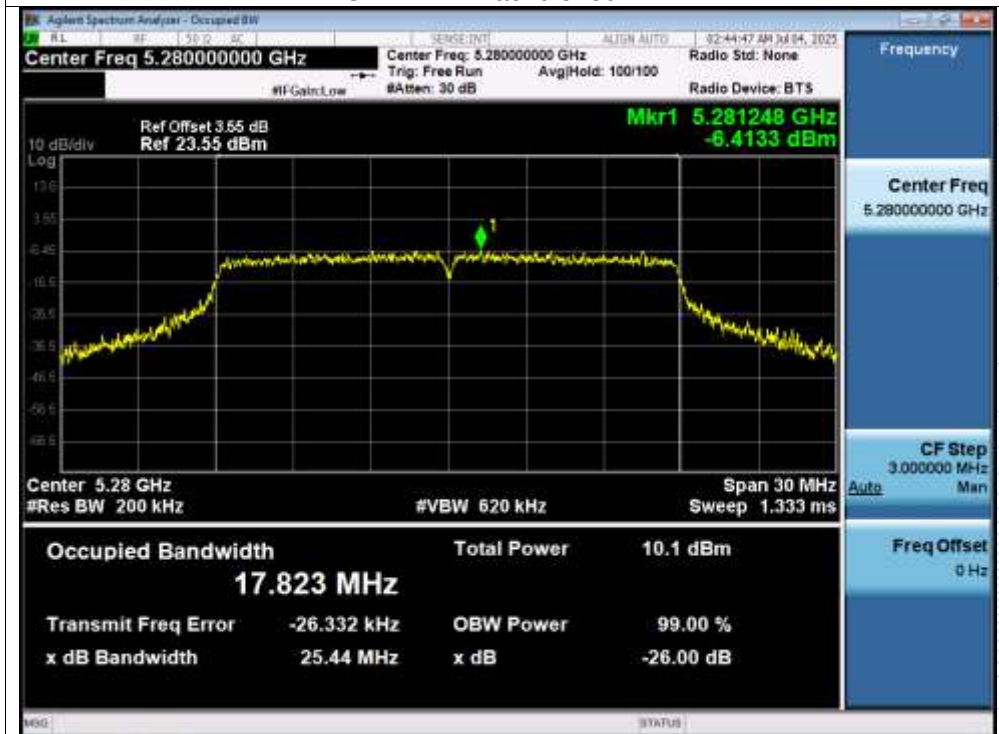
OBW NVNT n40 5310MHz



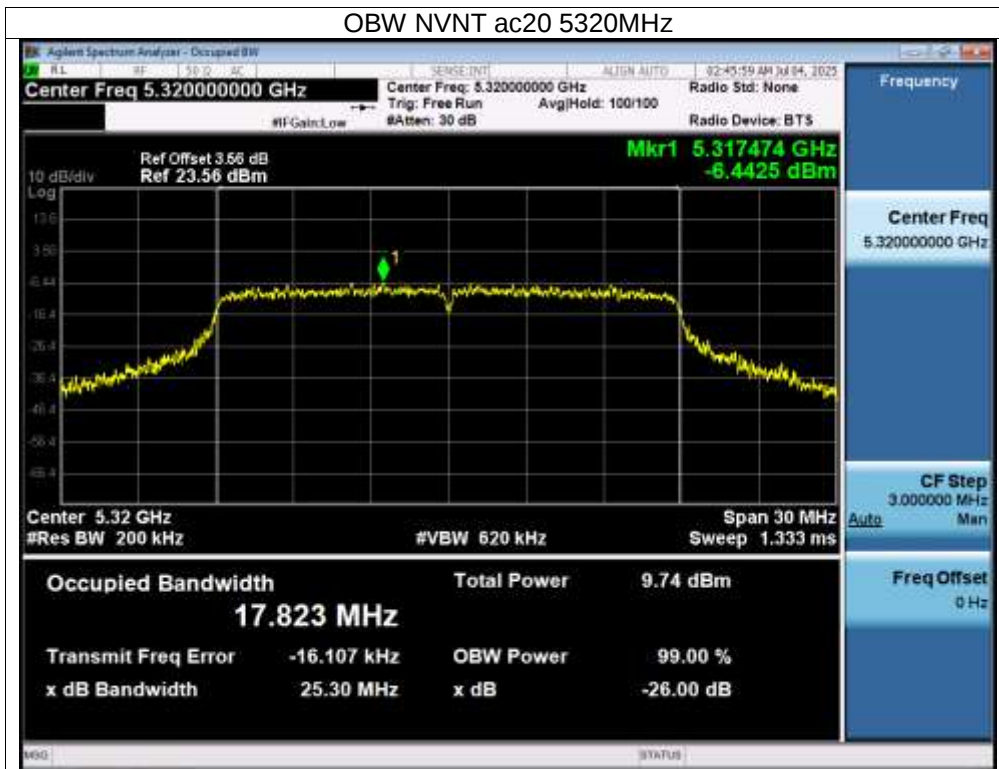
OBW NVNT ac20 5260MHz



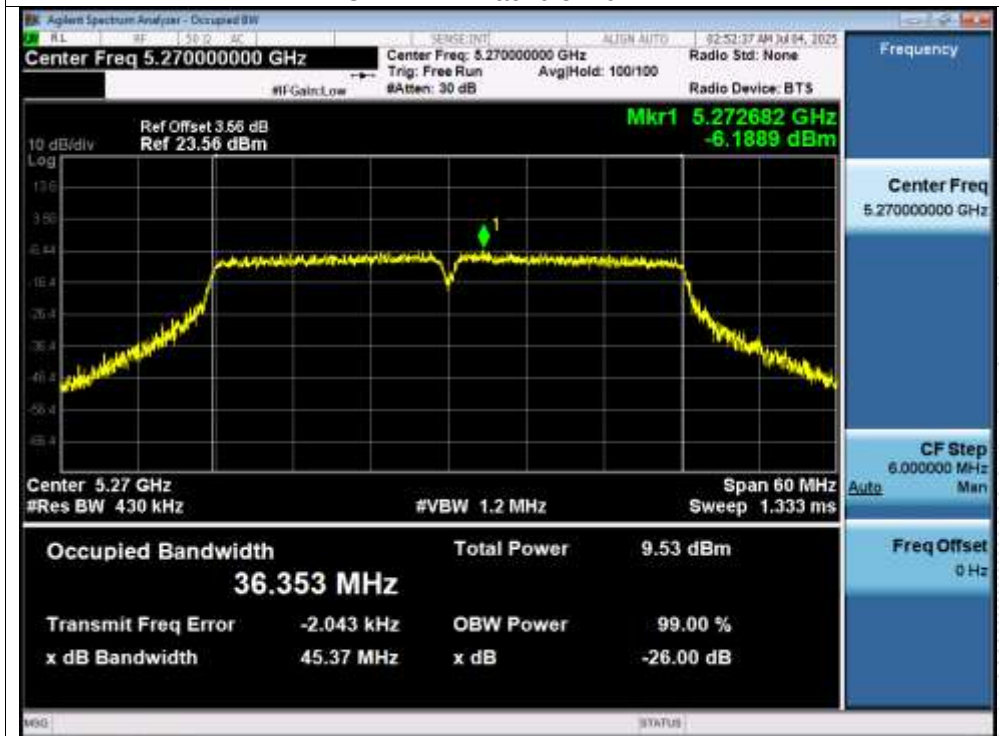
OBW NVNT ac20 5280MHz



OBW NVNT ac20 5320MHz



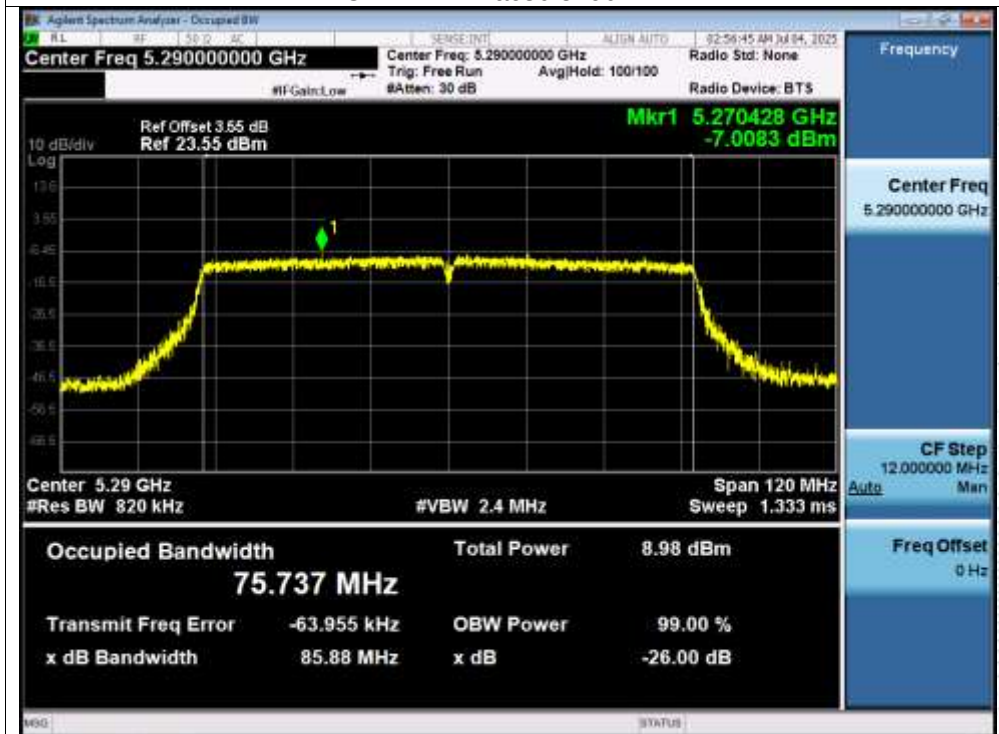
OBW NVNT ac40 5270MHz



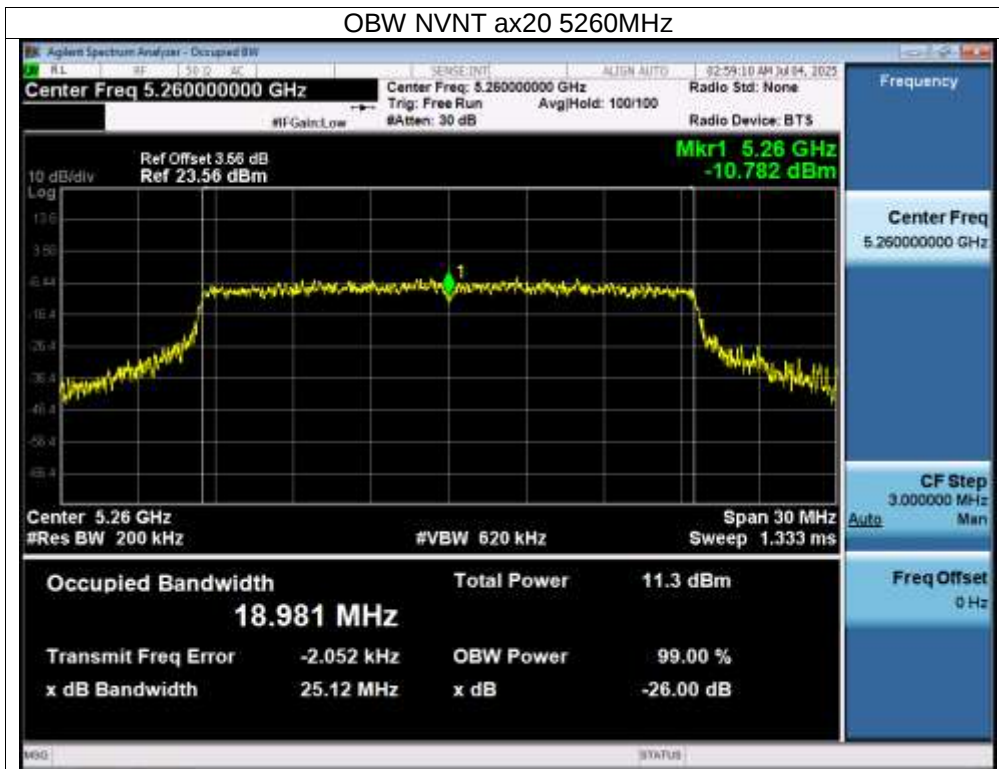
OBW NVNT ac40 5310MHz



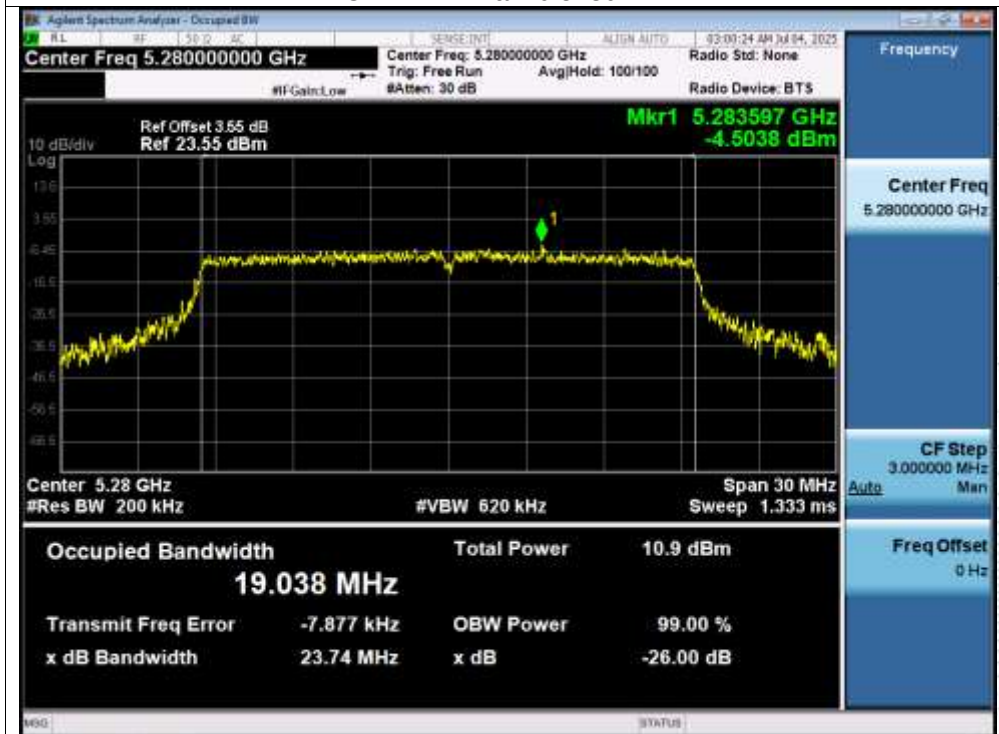
OBW NVNT ac80 5290MHz



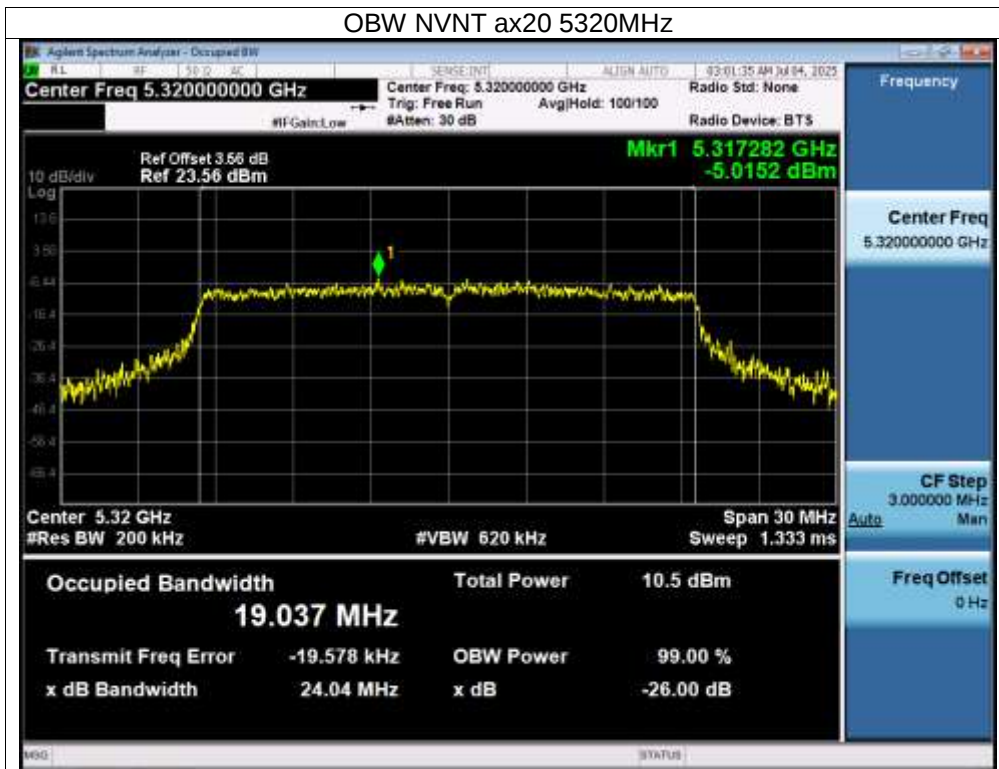
OBW NVNT ax20 5260MHz



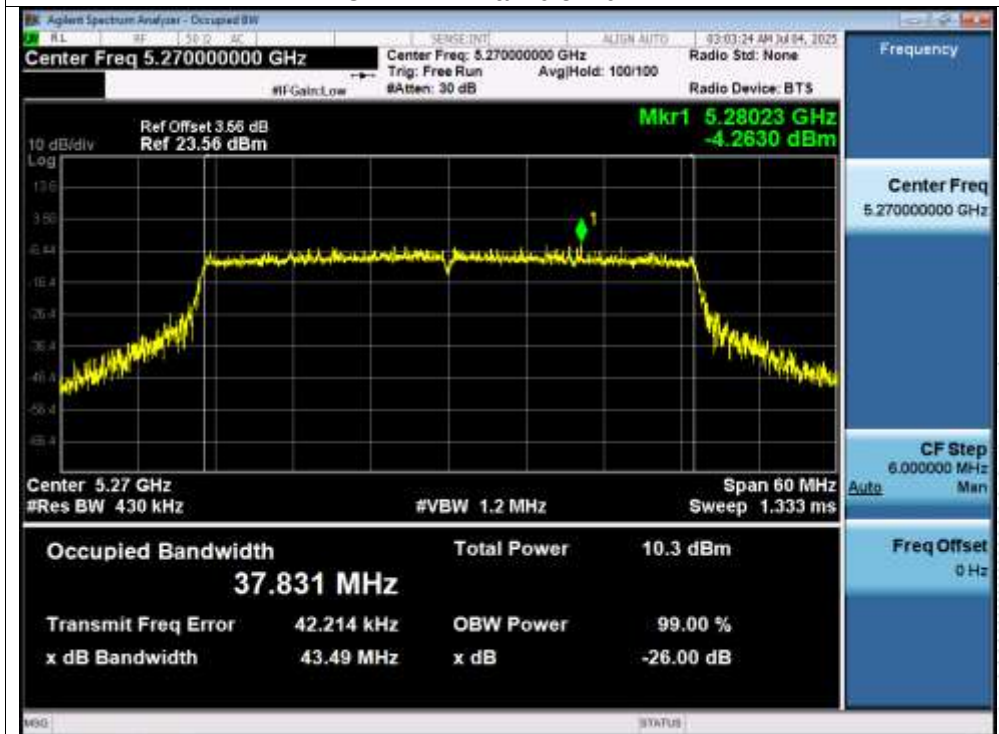
OBW NVNT ax20 5280MHz



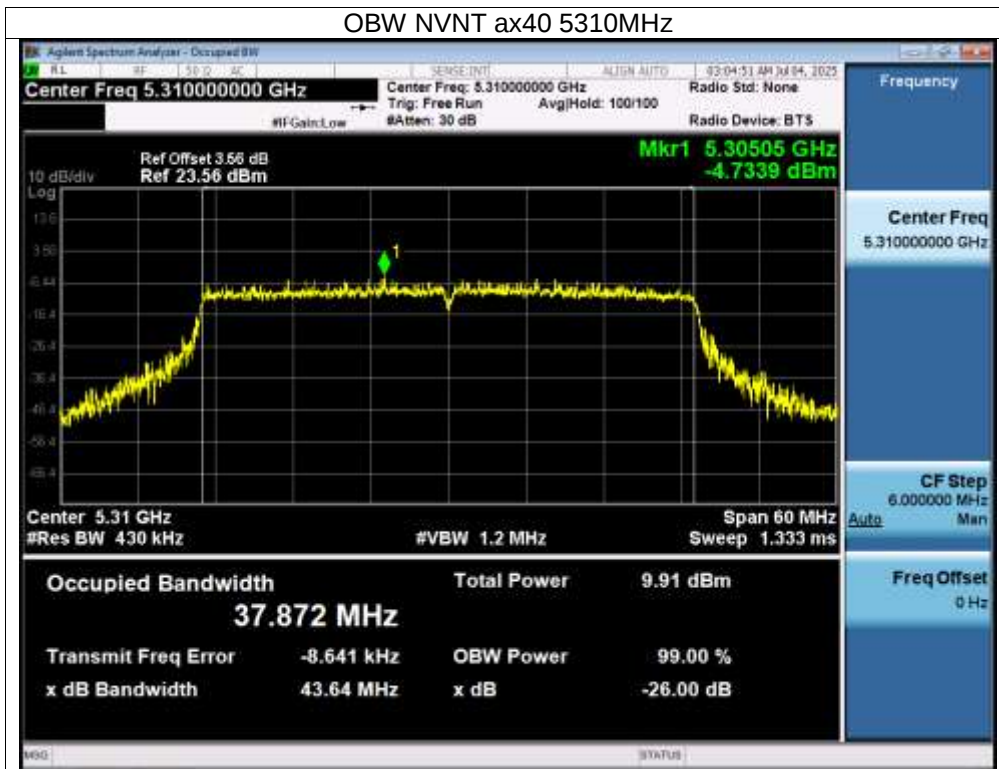
OBW NVNT ax20 5320MHz



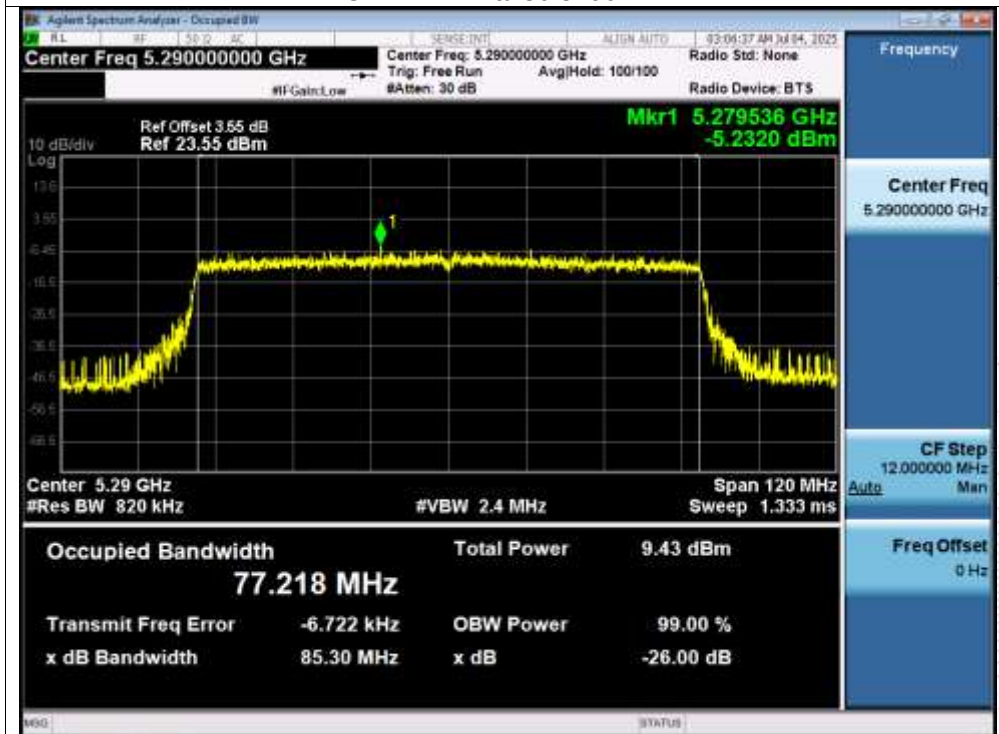
OBW NVNT ax40 5270MHz



OBW NVNT ax40 5310MHz



OBW NVNT ax80 5290MHz

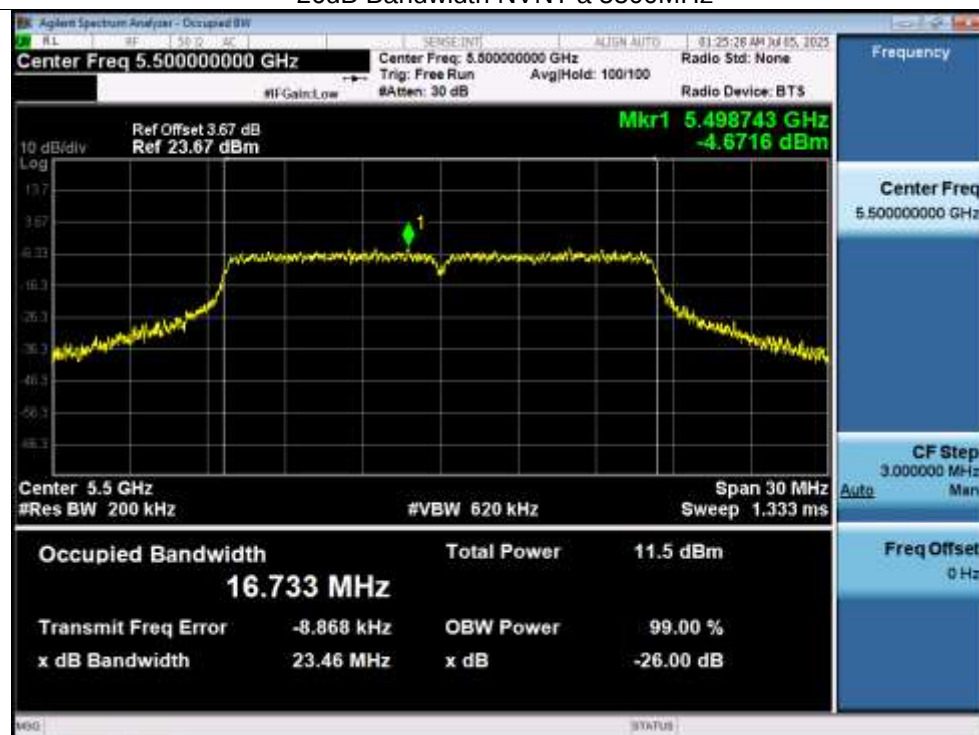


Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5500-5700MHz)		

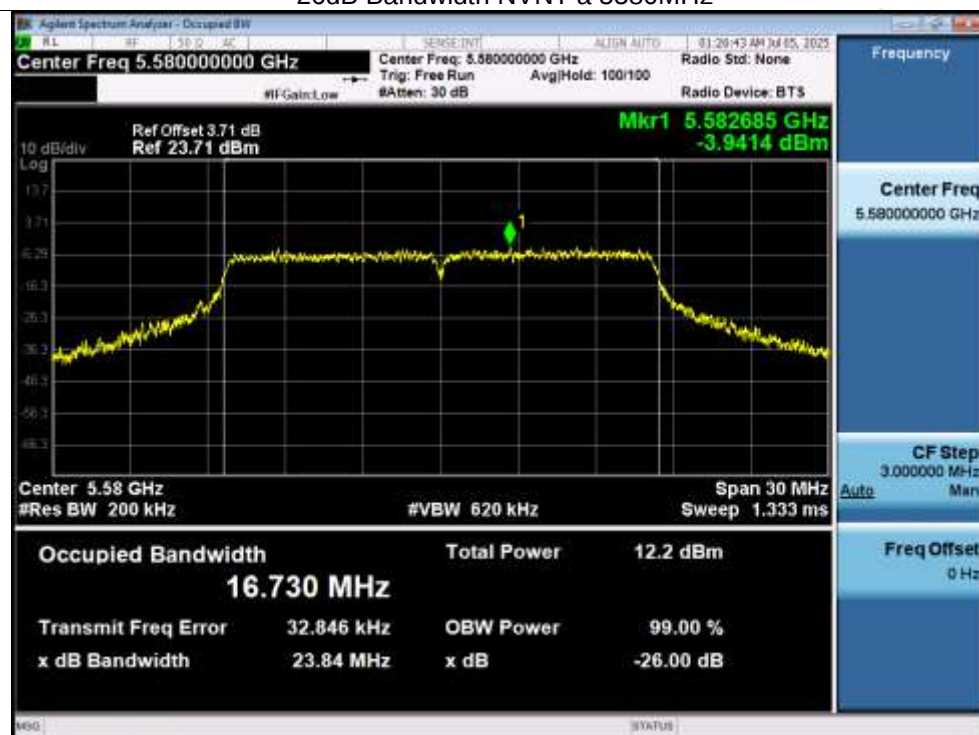
Condition	Mode	Frequency (MHz)	-26dB bandwidth (MHz)	99% bandwidth (MHz)	Result
NVNT	a	5500	23.458	16.714	Pass
NVNT	a	5580	23.837	16.737	Pass
NVNT	a	5700	24.486	16.806	Pass
NVNT	n20	5500	24.518	17.920	Pass
NVNT	n20	5580	25.104	17.939	Pass
NVNT	n20	5700	25.407	17.960	Pass
NVNT	n40	5510	46.929	36.564	Pass
NVNT	n40	5550	45.954	36.500	Pass
NVNT	n40	5670	45.638	36.586	Pass
NVNT	ac20	5500	25.435	17.953	Pass
NVNT	ac20	5580	25.363	17.964	Pass
NVNT	ac20	5700	25.262	17.963	Pass
NVNT	ac40	5510	47.019	36.560	Pass
NVNT	ac40	5550	45.702	36.599	Pass
NVNT	ac40	5670	45.380	36.572	Pass
NVNT	ac80	5530	89.397	76.024	Pass
NVNT	ax20	5500	25.378	19.101	Pass
NVNT	ax20	5580	24.737	19.108	Pass
NVNT	ax20	5700	25.798	19.124	Pass
NVNT	ax40	5510	45.781	38.005	Pass
NVNT	ax40	5550	44.276	37.950	Pass
NVNT	ax40	5670	43.473	38.021	Pass
NVNT	ax80	5530	87.114	77.595	Pass

Test Graphs

-26dB Bandwidth NVNT a 5500MHz



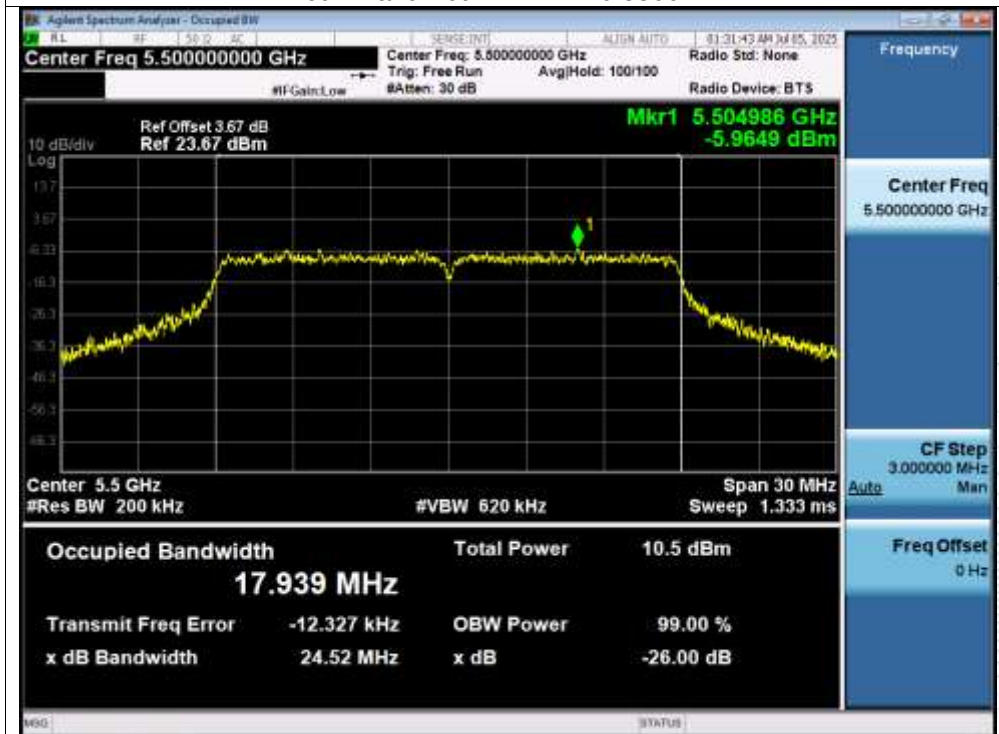
-26dB Bandwidth NVNT a 5580MHz



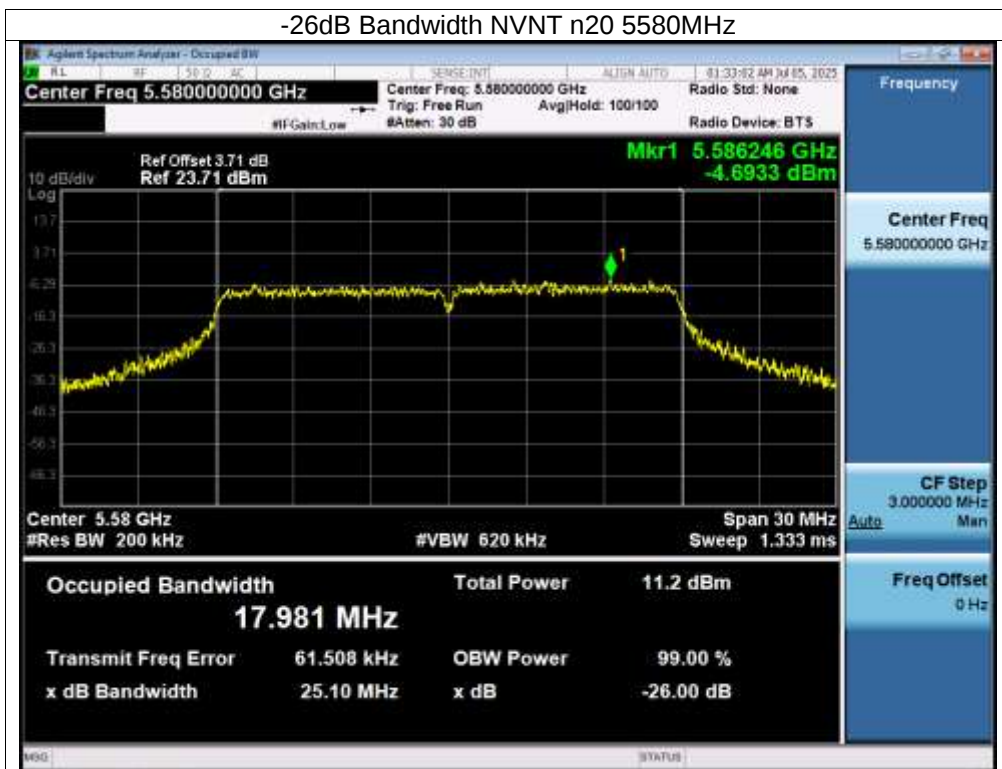
-26dB Bandwidth NVNT a 5700MHz



-26dB Bandwidth NVNT n20 5500MHz



-26dB Bandwidth NVNT n20 5580MHz



-26dB Bandwidth NVNT n20 5700MHz

