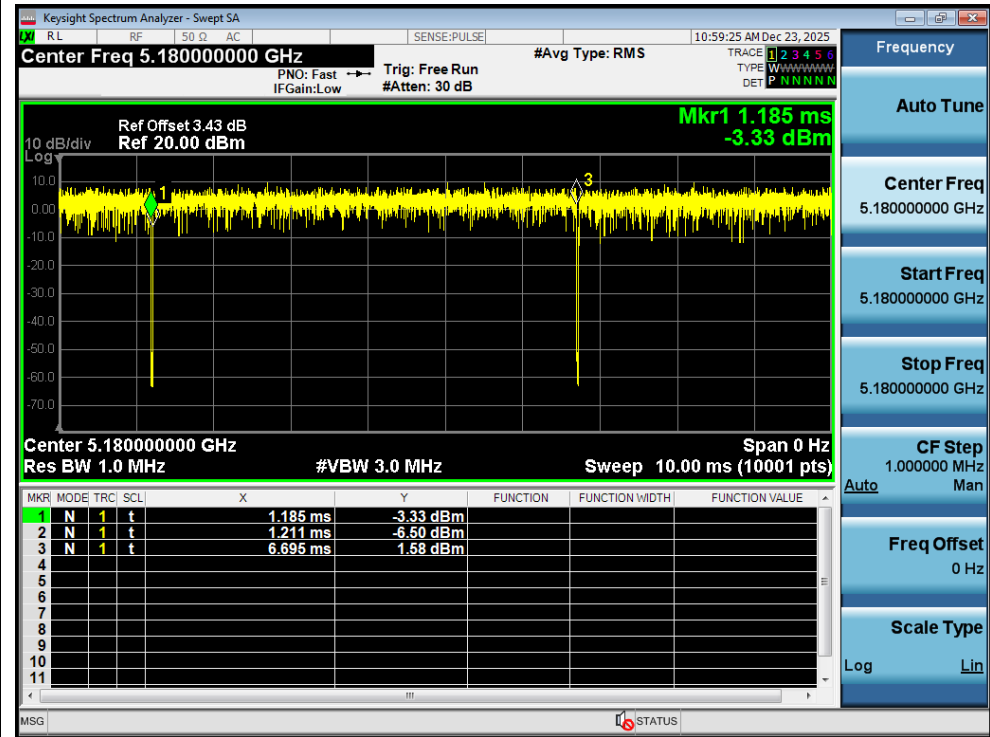


Duty Cycle

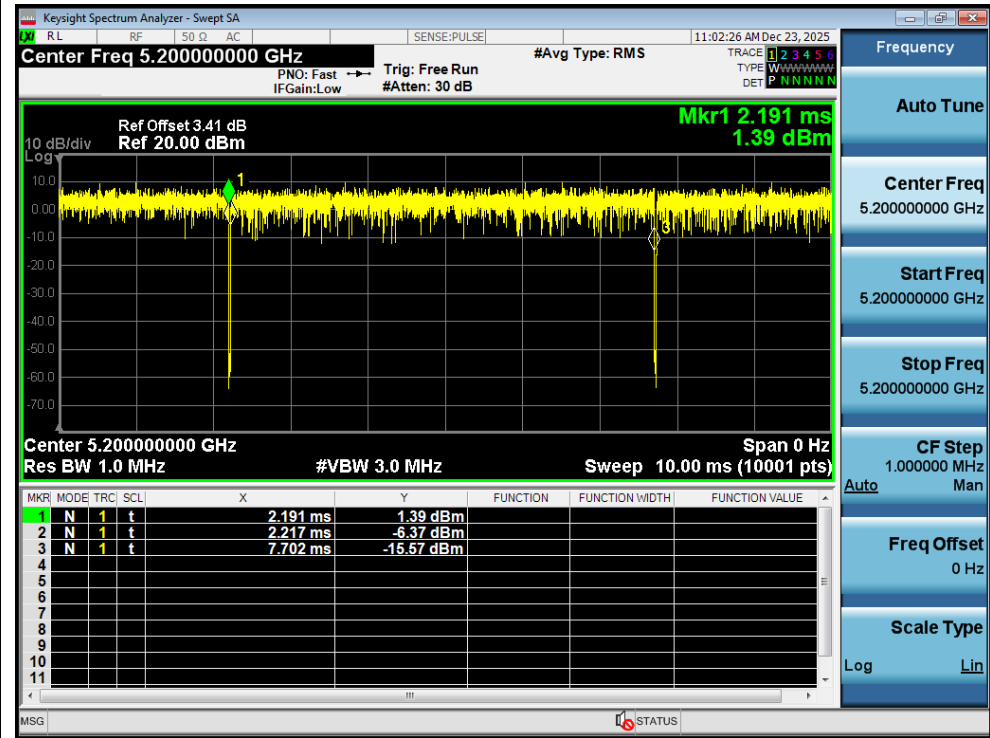
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	99.53	0	0.18
NVNT	a	5200	Ant1	99.53	0	0.18
NVNT	a	5240	Ant1	99.75	0	0
NVNT	n20	5180	Ant1	99.51	0	0.2
NVNT	n20	5200	Ant1	99.51	0	0.2
NVNT	n20	5240	Ant1	99.51	0	0.2
NVNT	n40	5190	Ant1	99.2	0	0.4
NVNT	n40	5230	Ant1	99.2	0	0.4
NVNT	ac20	5180	Ant1	99.51	0	0.2
NVNT	ac20	5200	Ant1	99.49	0	0.2
NVNT	ac20	5240	Ant1	99.49	0	0.2
NVNT	ax20	5180	Ant1	99.33	0	0.26
NVNT	ax20	5200	Ant1	99.33	0	0.26
NVNT	ax20	5240	Ant1	99.33	0	0.26

Test Graphs

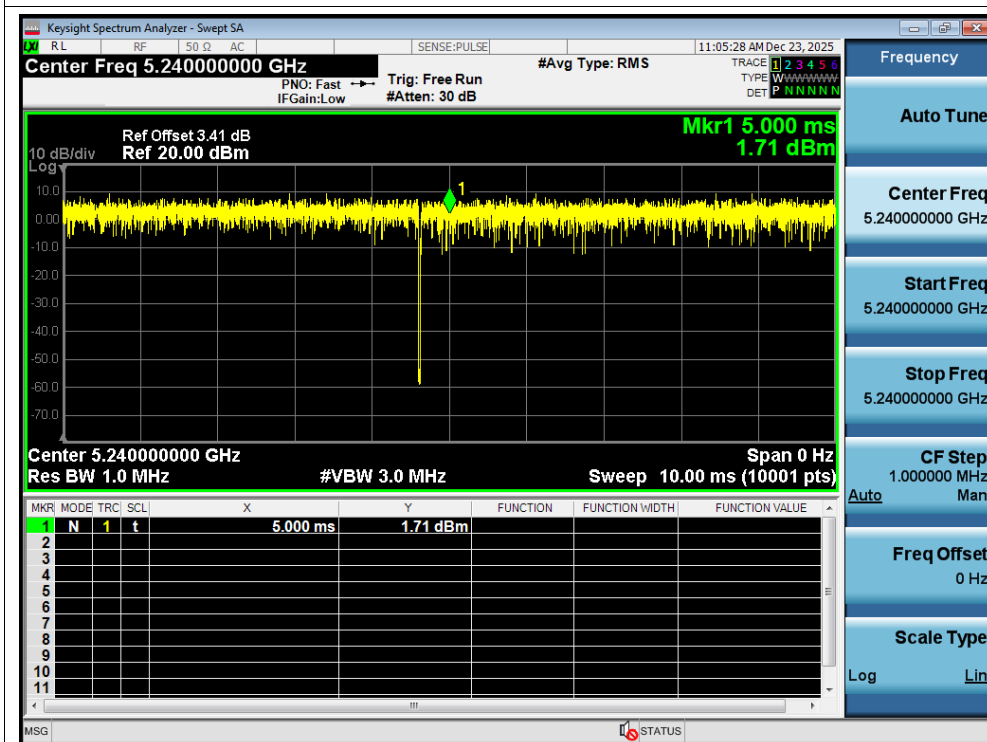
Duty Cycle NVNT a 5180MHz Ant1



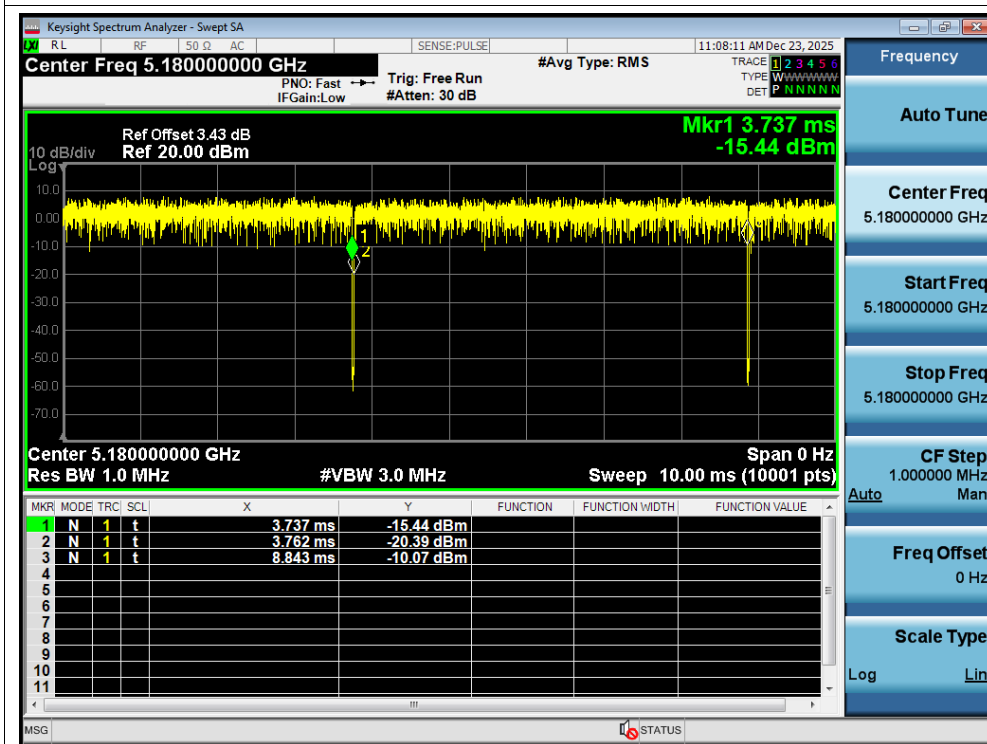
Duty Cycle NVNT a 5200MHz Ant1

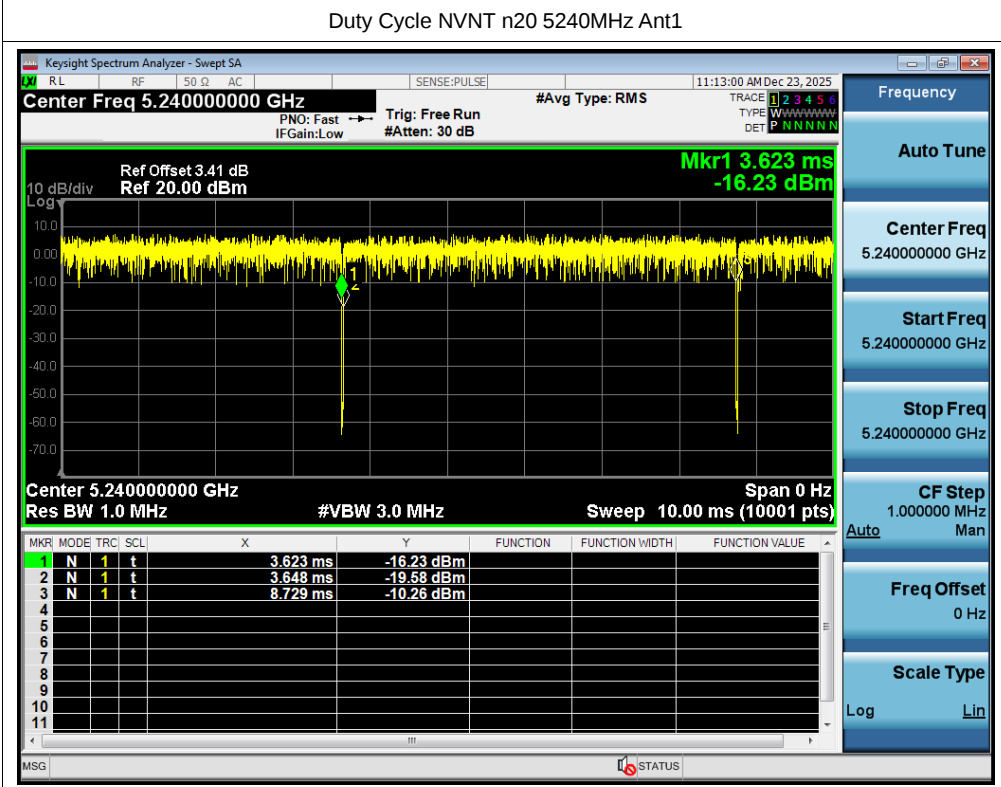
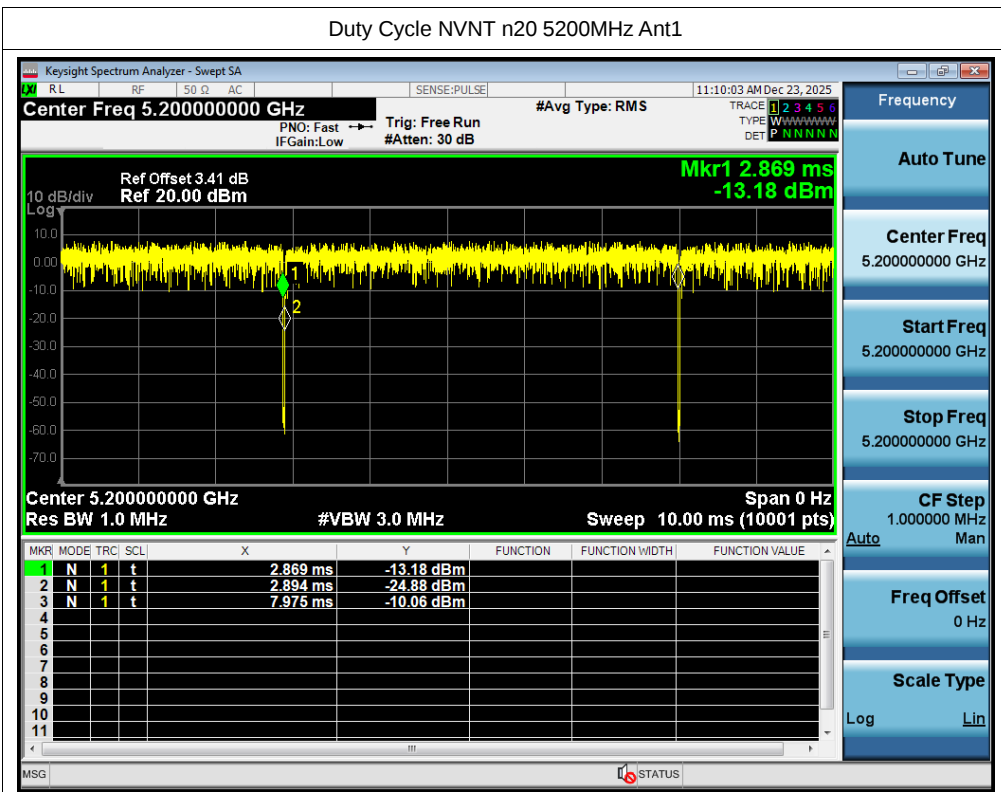


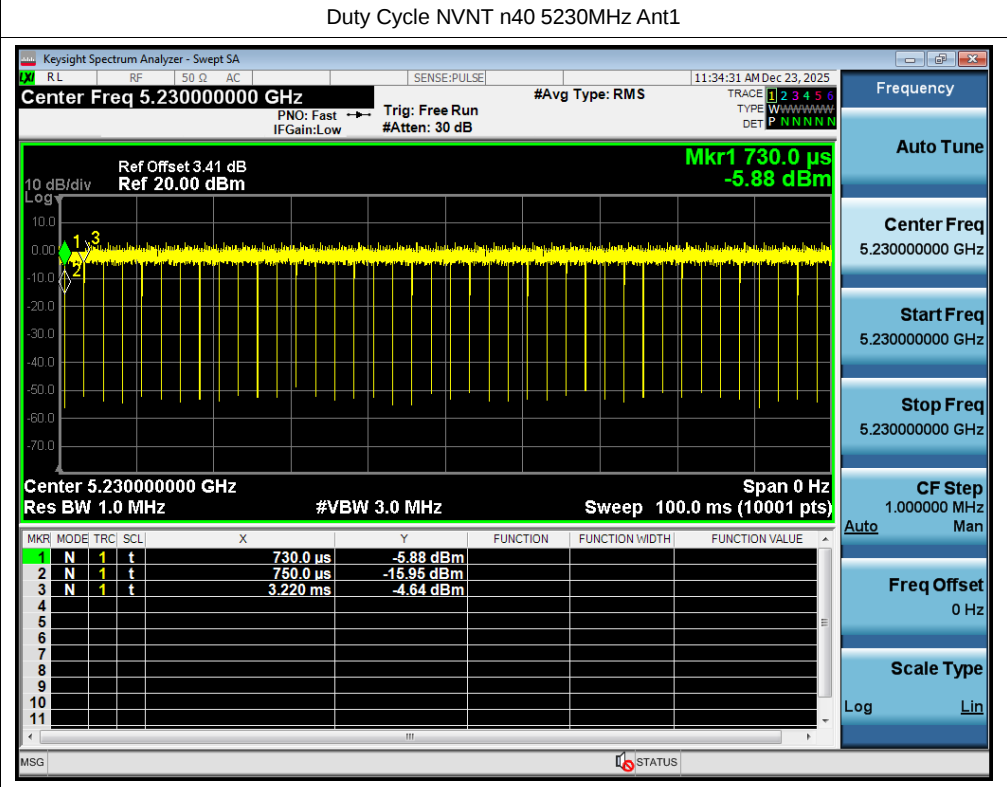
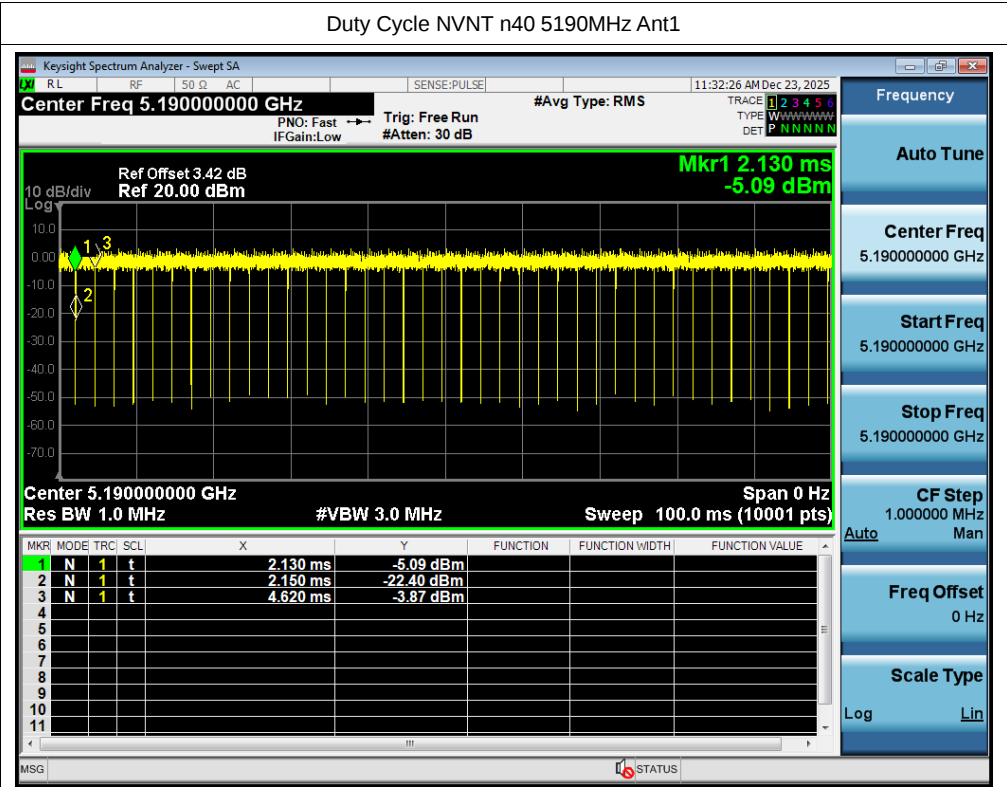
Duty Cycle NVNT a 5240MHz Ant1

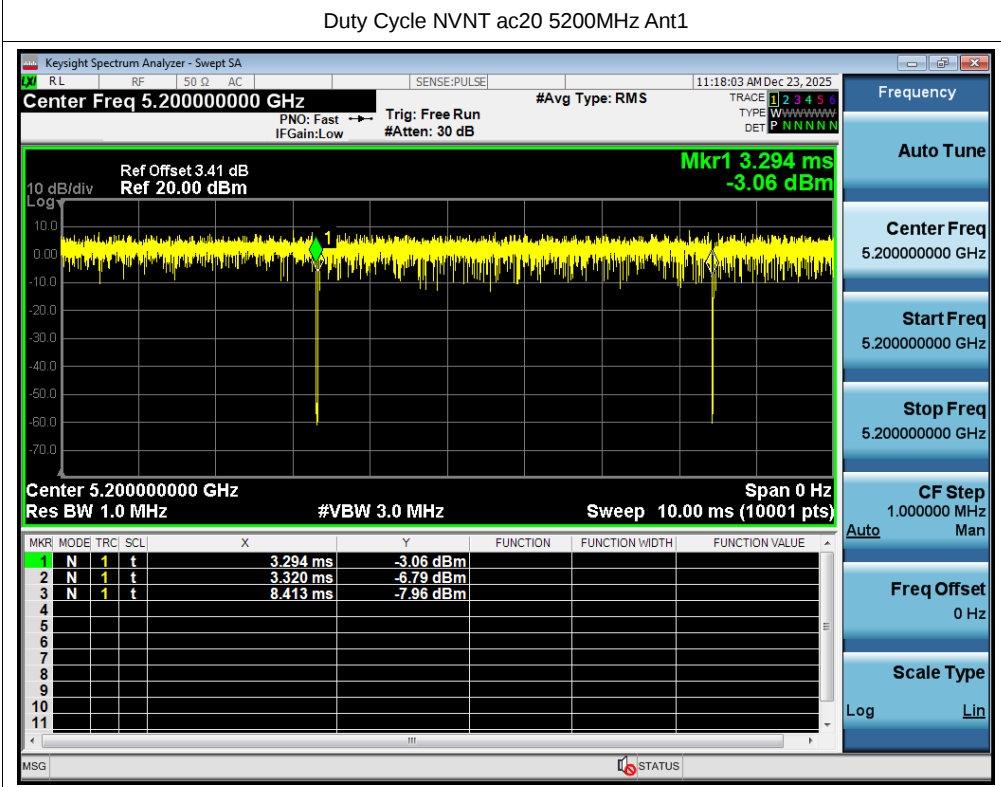
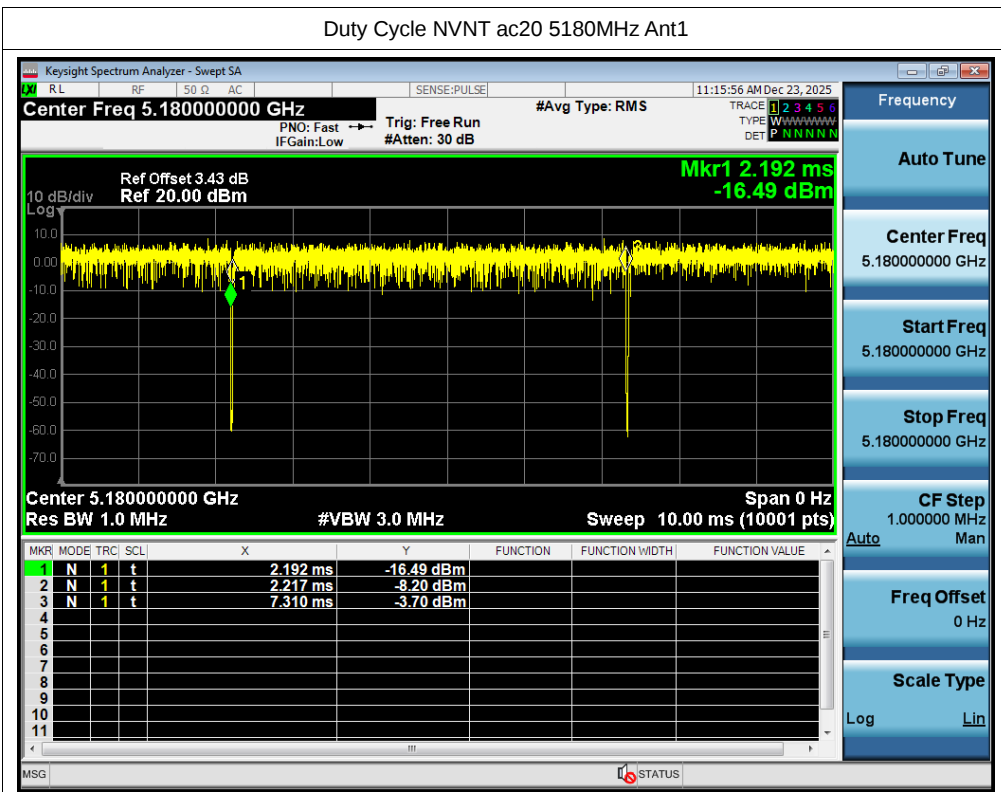


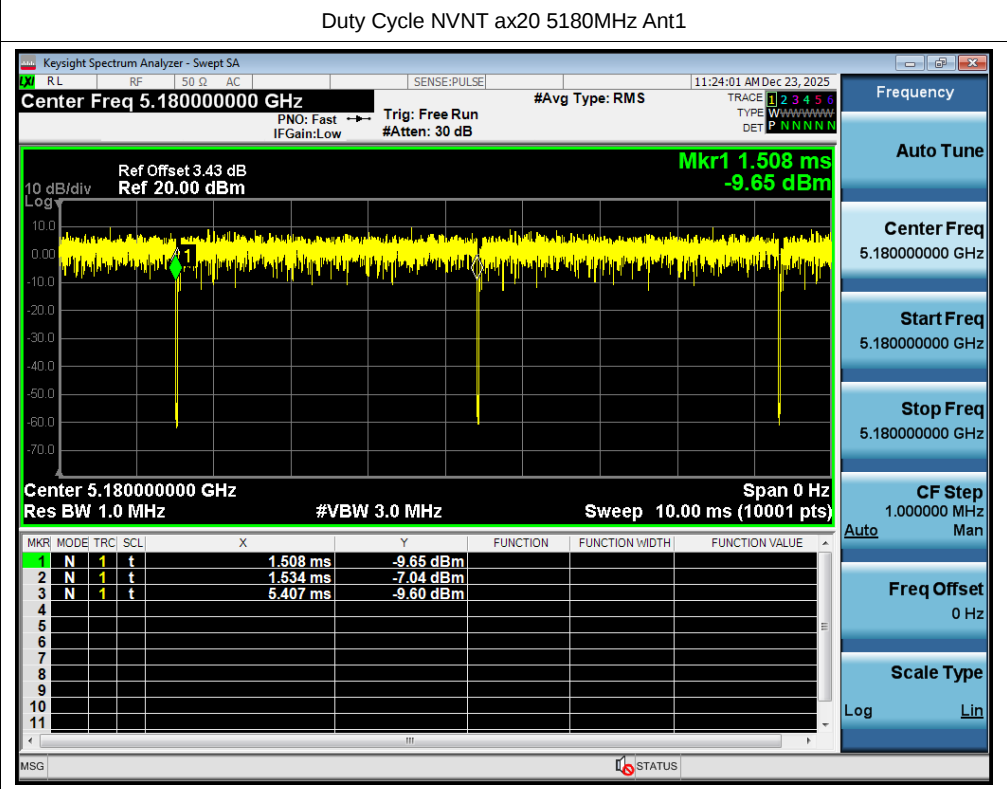
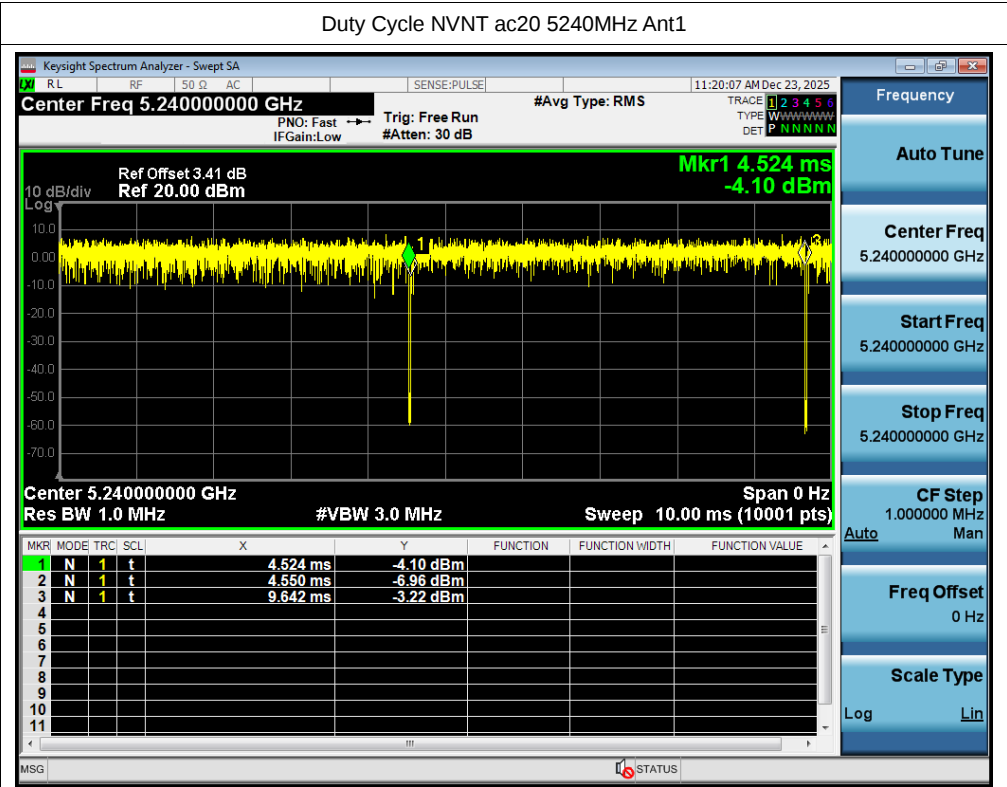
Duty Cycle NVNT n20 5180MHz Ant1

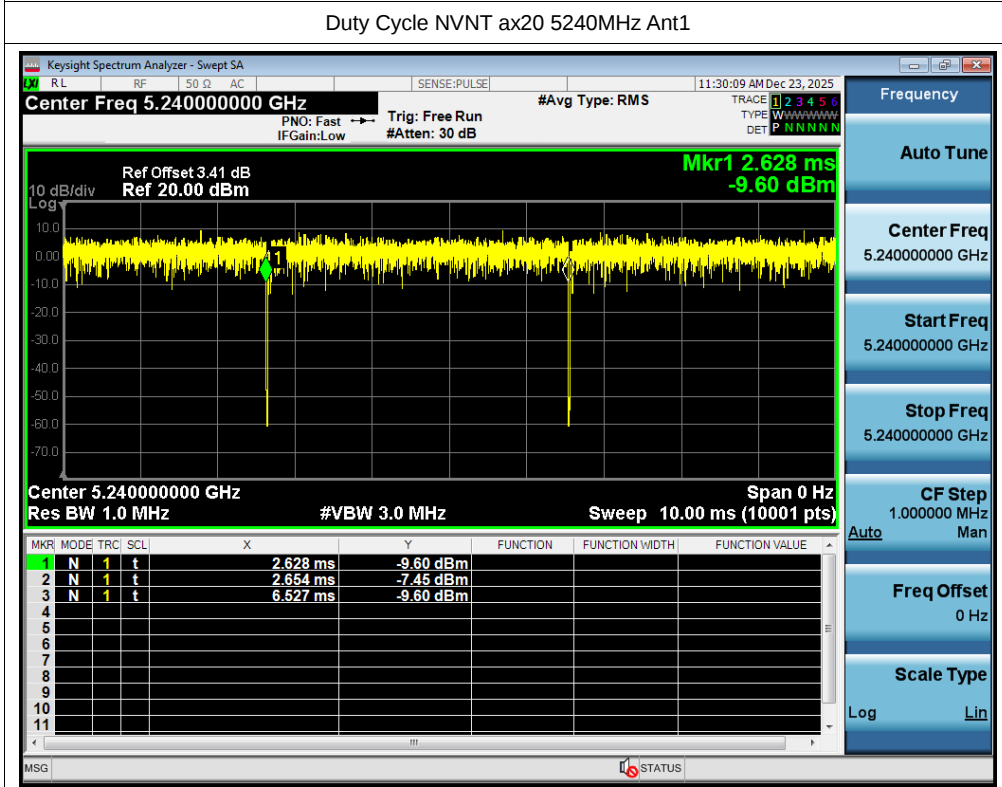
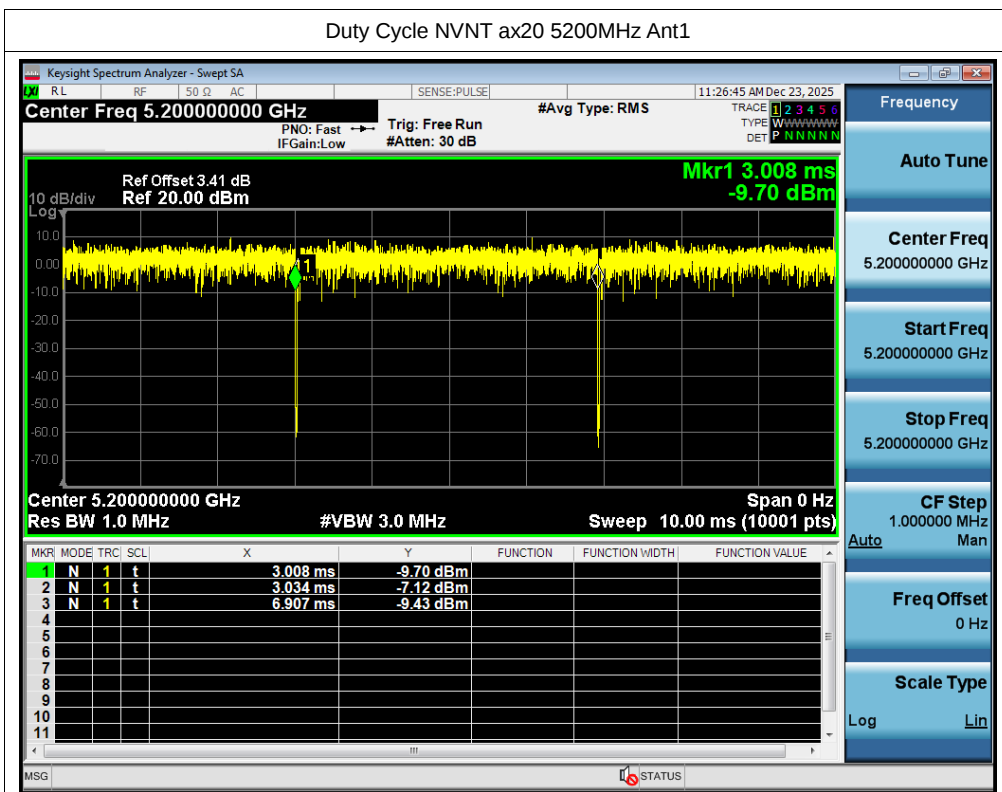












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.74	24	Pass
NVNT	a	5200	Ant1	11.74	24	Pass
NVNT	a	5240	Ant1	11.52	24	Pass
NVNT	n20	5180	Ant1	11.29	24	Pass
NVNT	n20	5200	Ant1	11.2	24	Pass
NVNT	n20	5240	Ant1	10.95	24	Pass
NVNT	n40	5190	Ant1	10.55	24	Pass
NVNT	n40	5230	Ant1	10.22	24	Pass
NVNT	ac20	5180	Ant1	11.16	24	Pass
NVNT	ac20	5200	Ant1	11.21	24	Pass
NVNT	ac20	5240	Ant1	10.98	24	Pass
NVNT	ax20	5180	Ant1	11.13	24	Pass
NVNT	ax20	5200	Ant1	11.07	24	Pass
NVNT	ax20	5240	Ant1	10.82	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.568	0.5	Pass
NVNT	a	5200	Ant1	20.45	0.5	Pass
NVNT	a	5240	Ant1	20.869	0.5	Pass
NVNT	n20	5180	Ant1	21.157	0.5	Pass
NVNT	n20	5200	Ant1	21.417	0.5	Pass
NVNT	n20	5240	Ant1	21.551	0.5	Pass
NVNT	n40	5190	Ant1	41.233	0.5	Pass
NVNT	n40	5230	Ant1	41.315	0.5	Pass
NVNT	ac20	5180	Ant1	21.428	0.5	Pass
NVNT	ac20	5200	Ant1	21.27	0.5	Pass
NVNT	ac20	5240	Ant1	21.238	0.5	Pass
NVNT	ax20	5180	Ant1	21.885	0.5	Pass
NVNT	ax20	5200	Ant1	21.092	0.5	Pass
NVNT	ax20	5240	Ant1	21.098	0.5	Pass

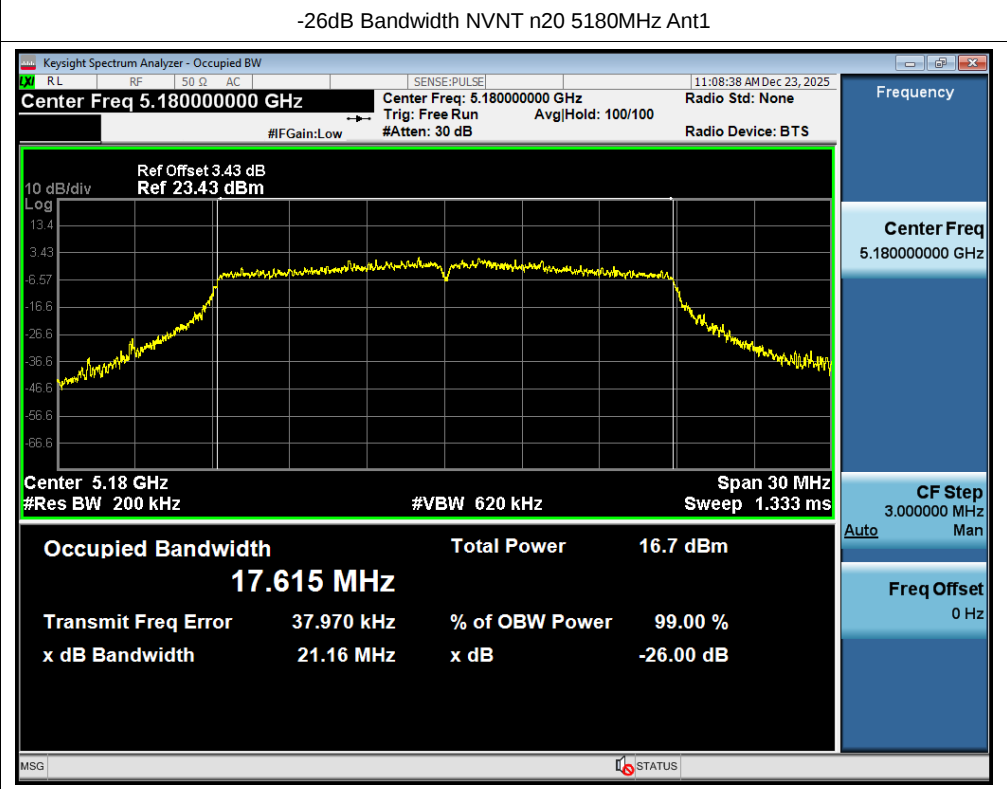
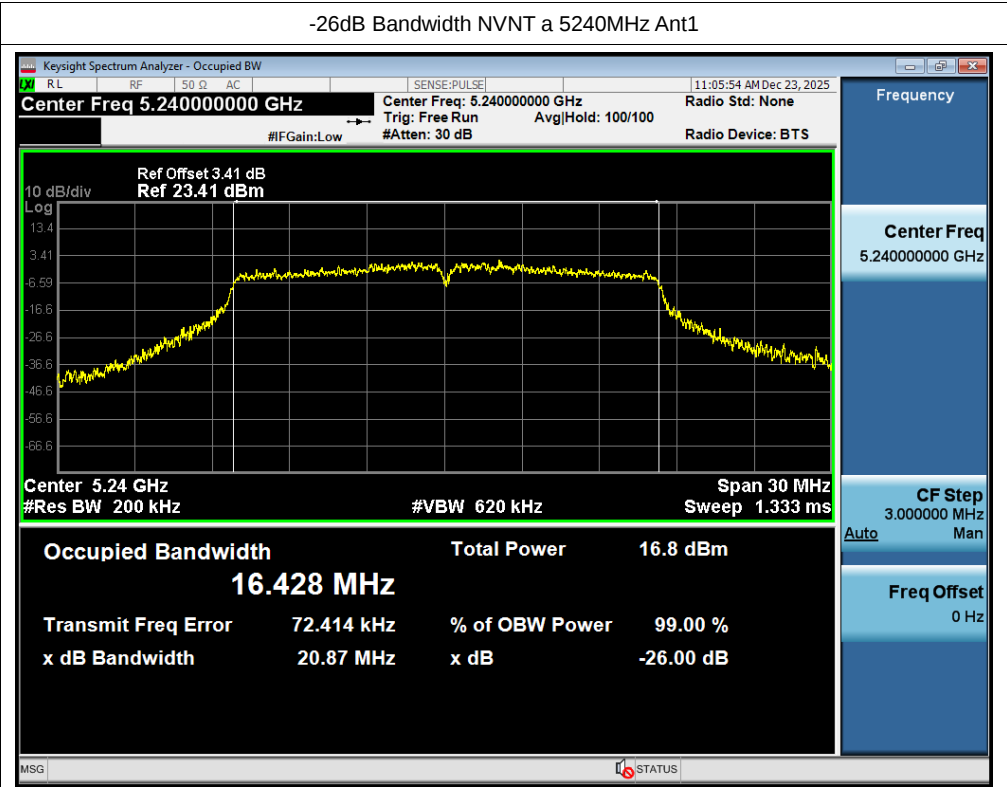
Test Graphs

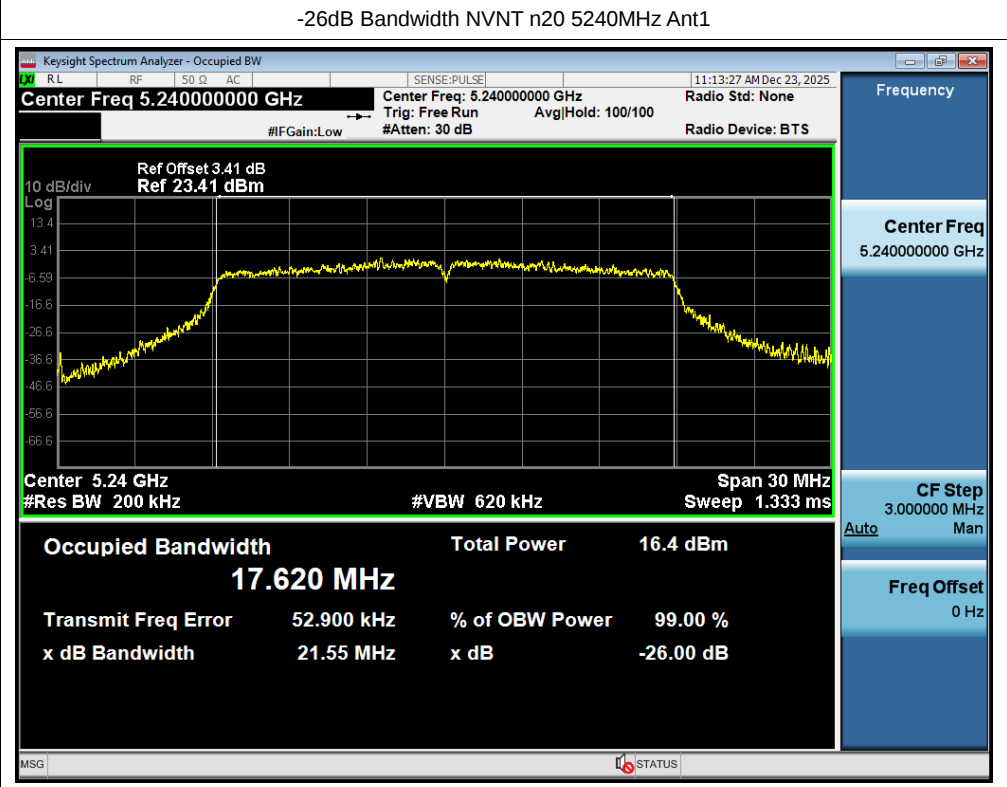
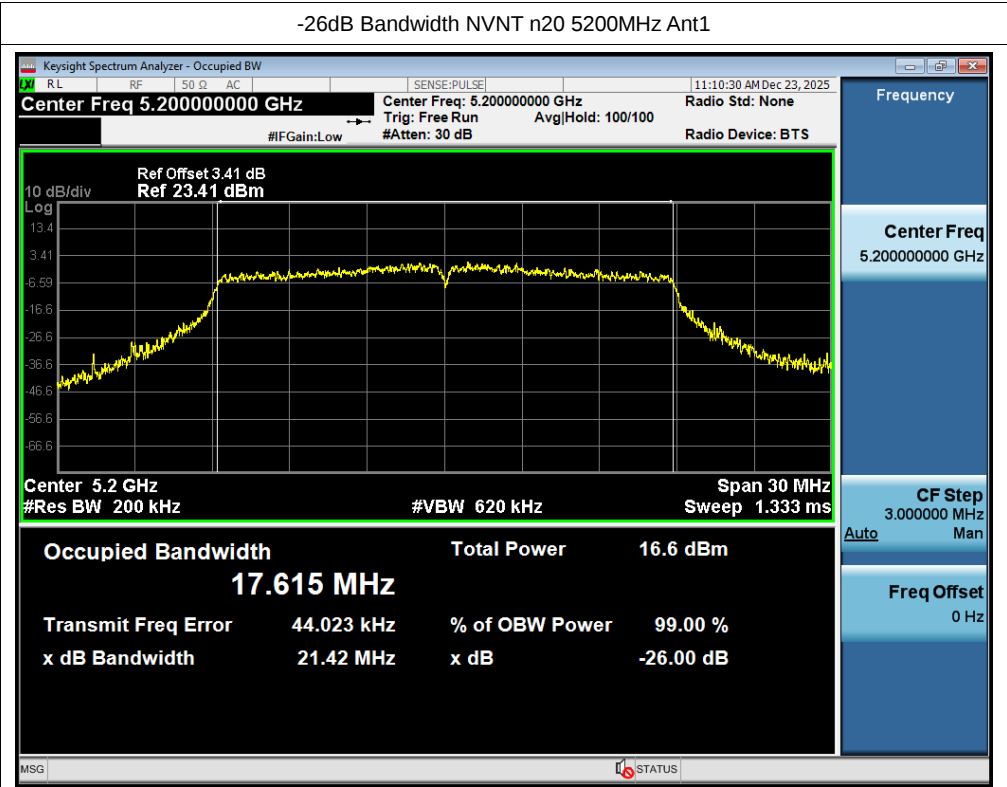
-26dB Bandwidth NVNT a 5180MHz Ant1

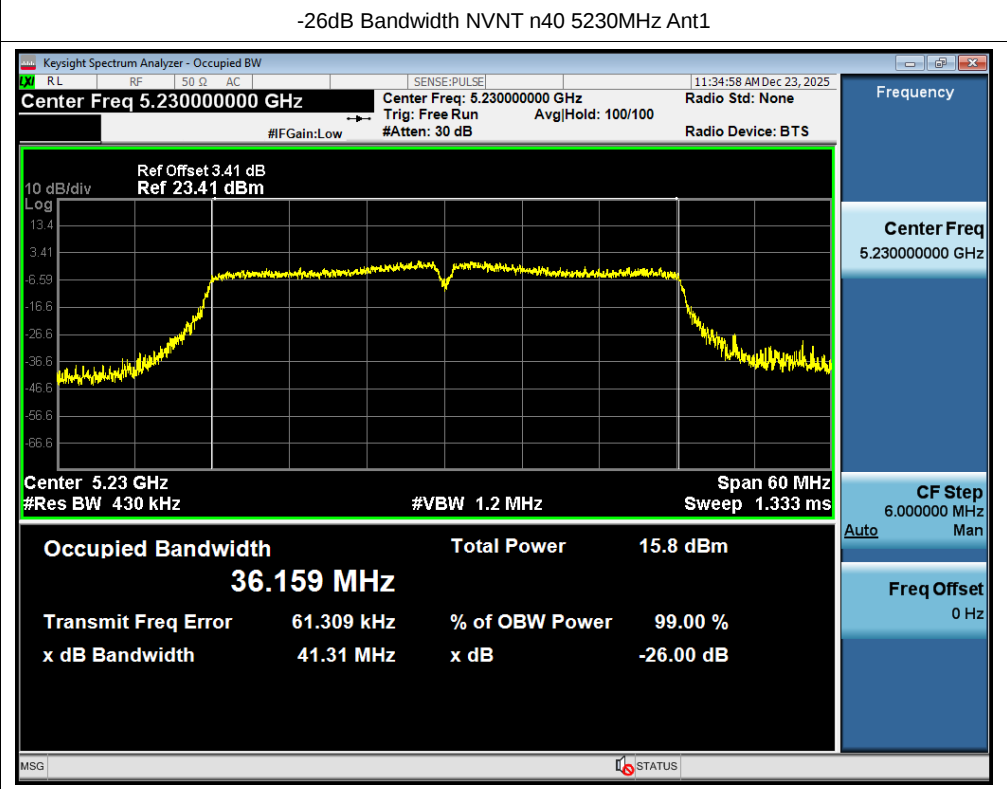
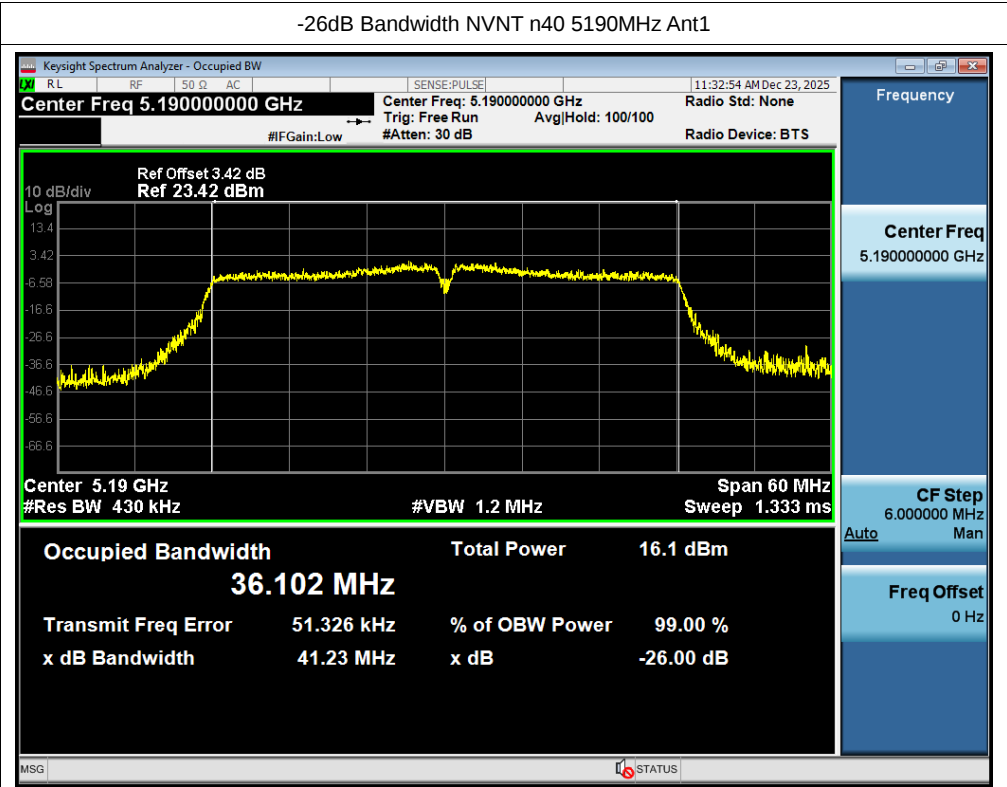


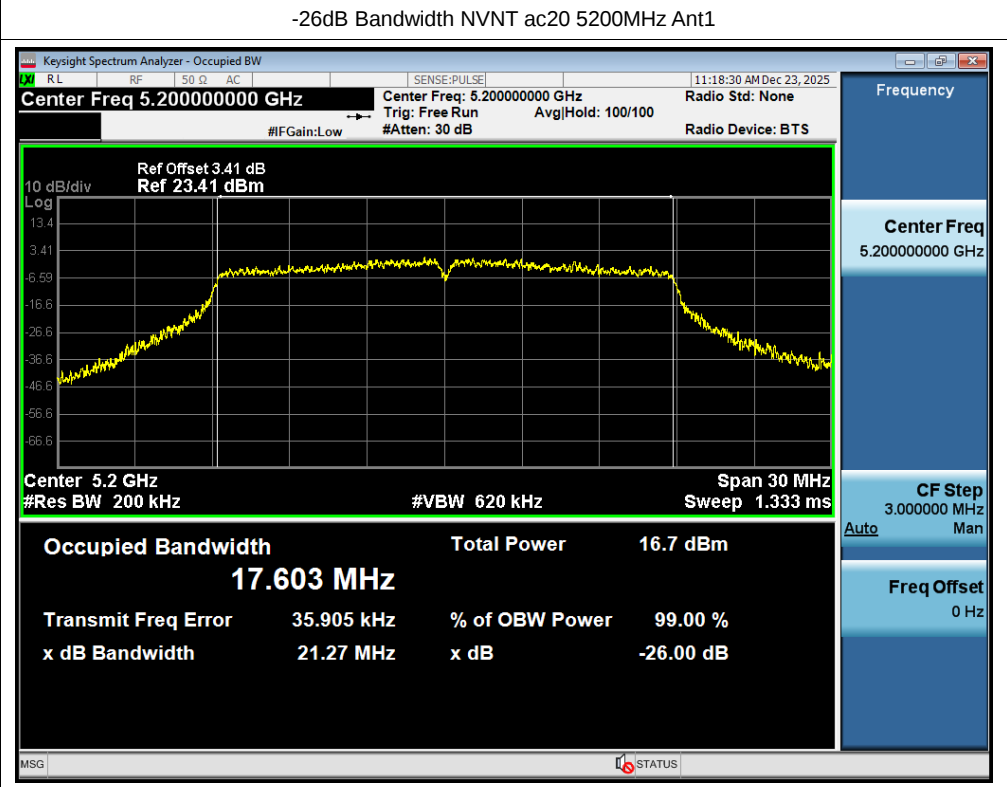
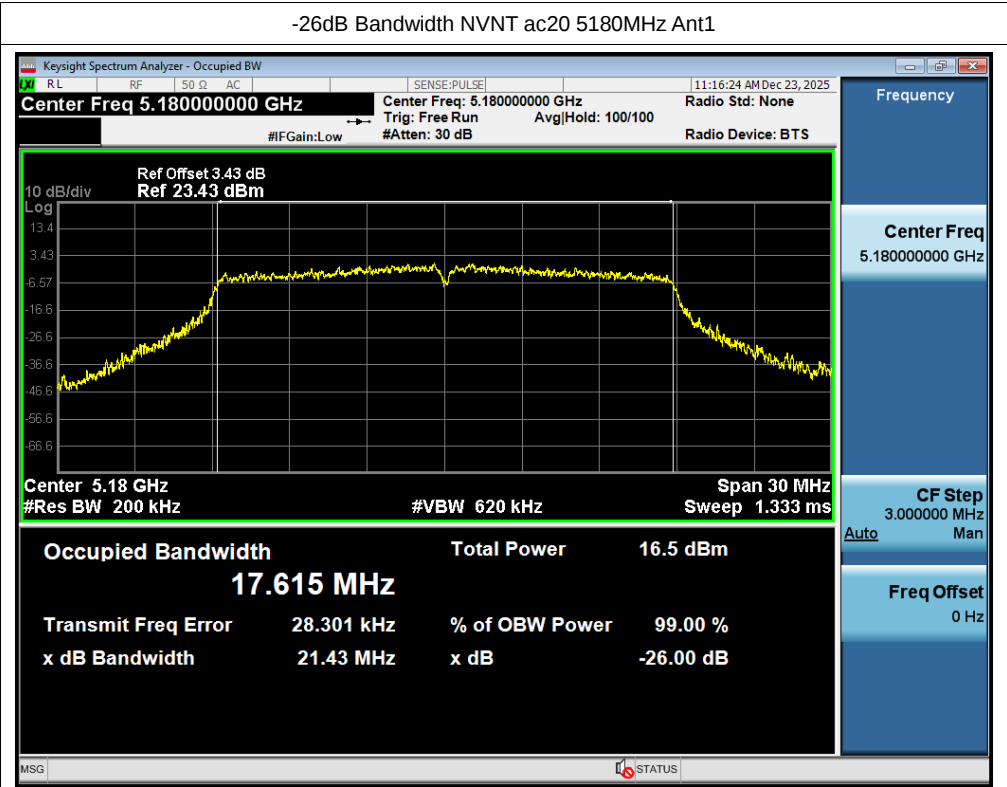
-26dB Bandwidth NVNT a 5200MHz Ant1

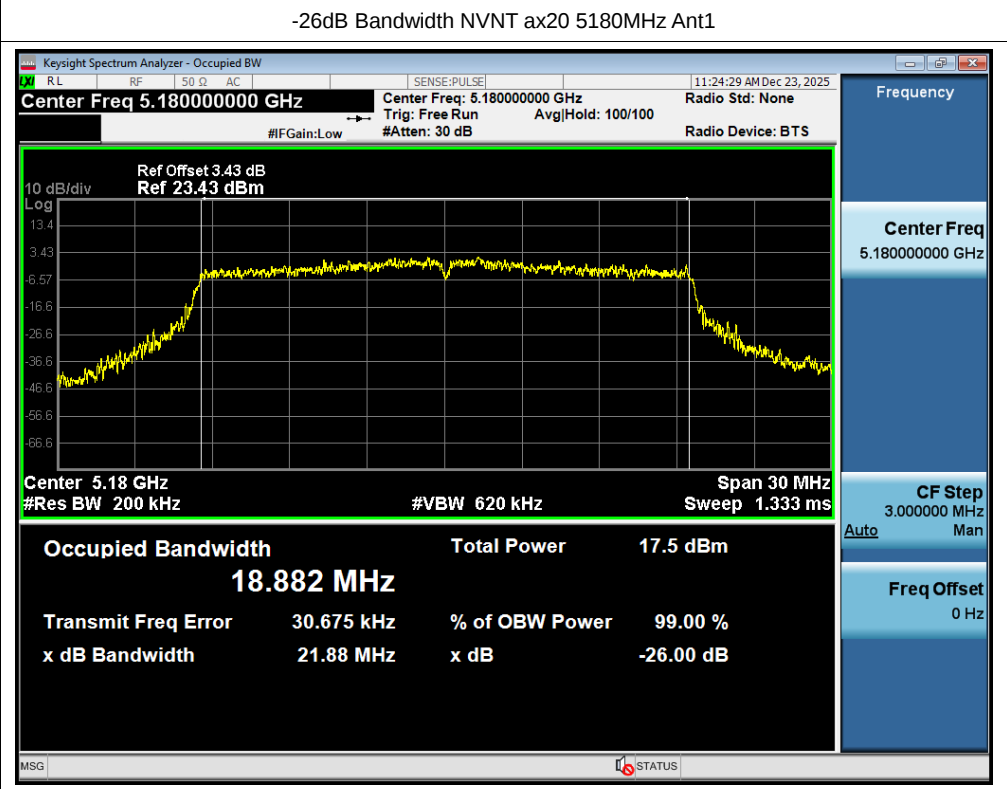
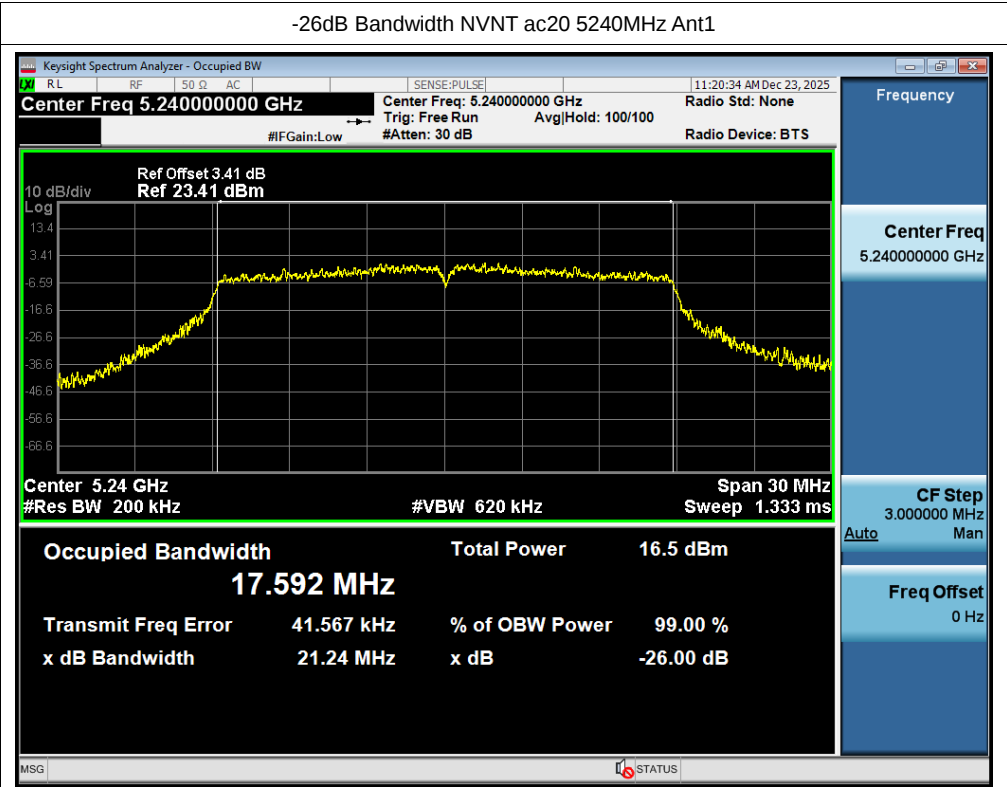


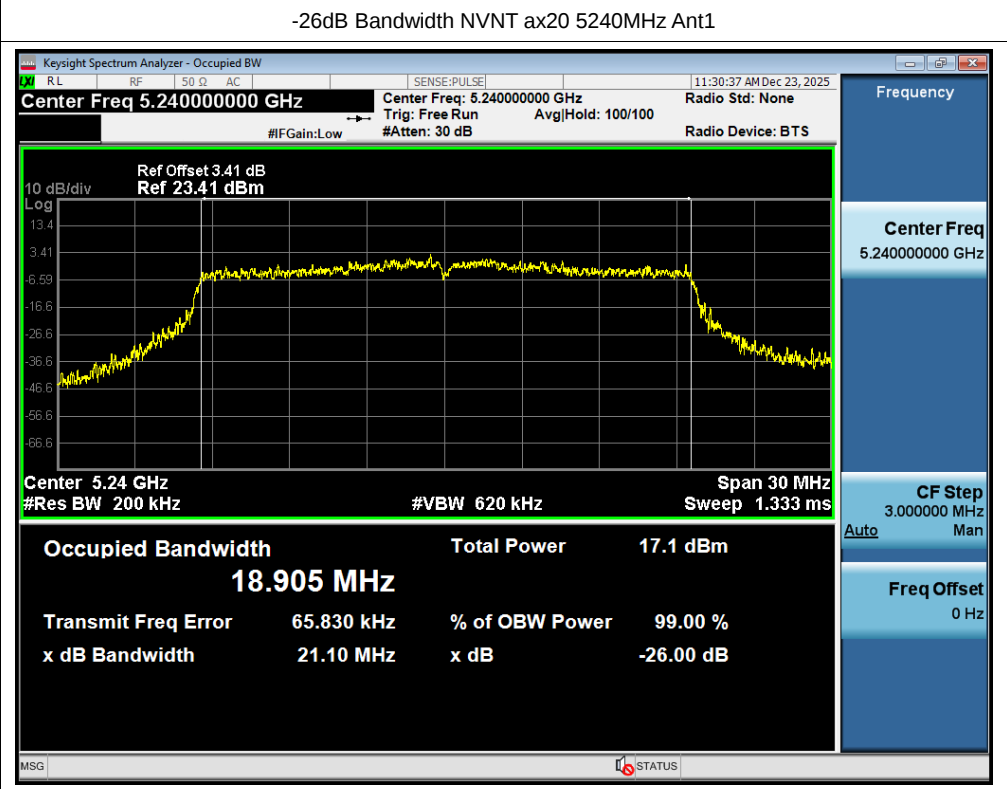
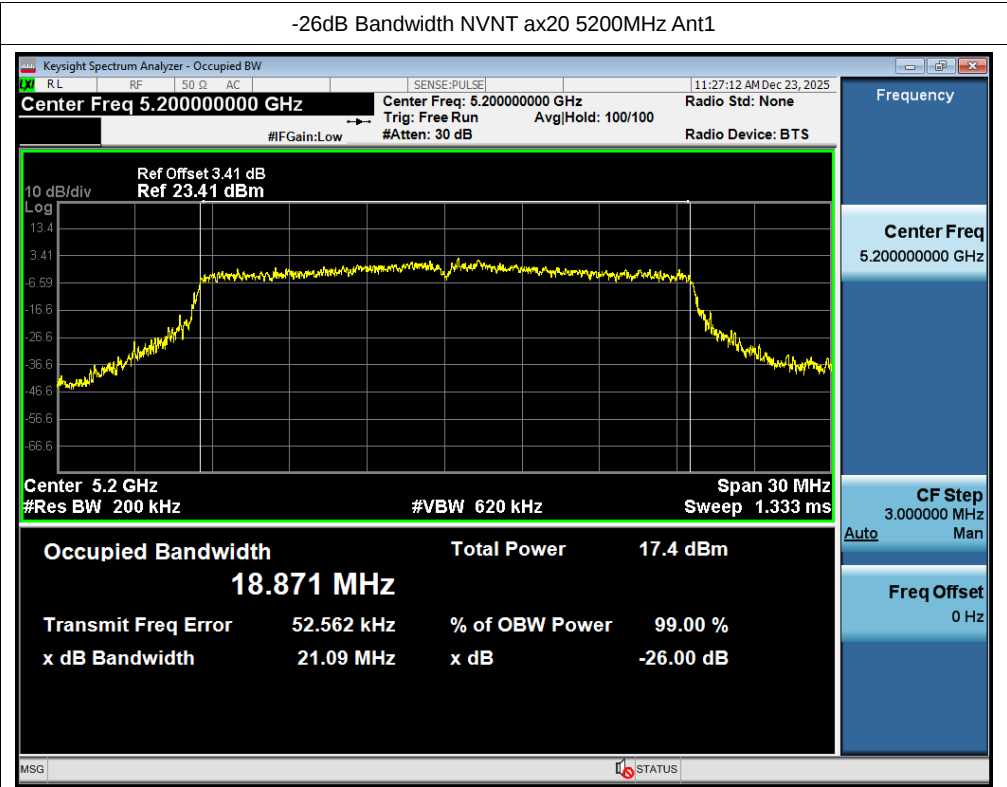










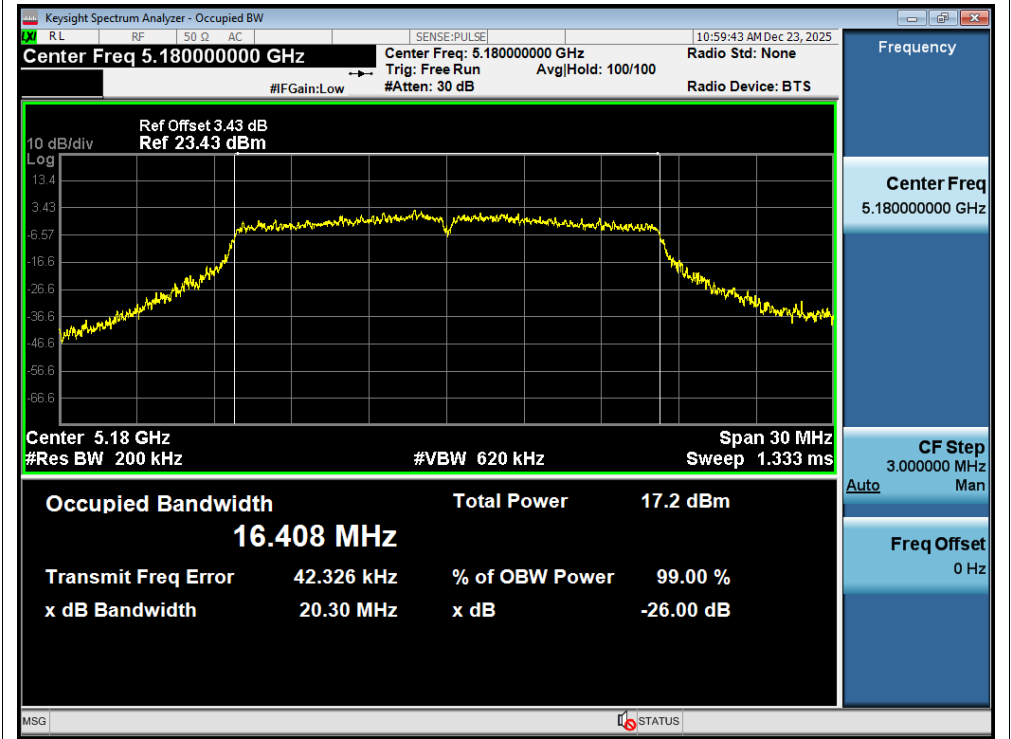


Occupied Channel Bandwidth

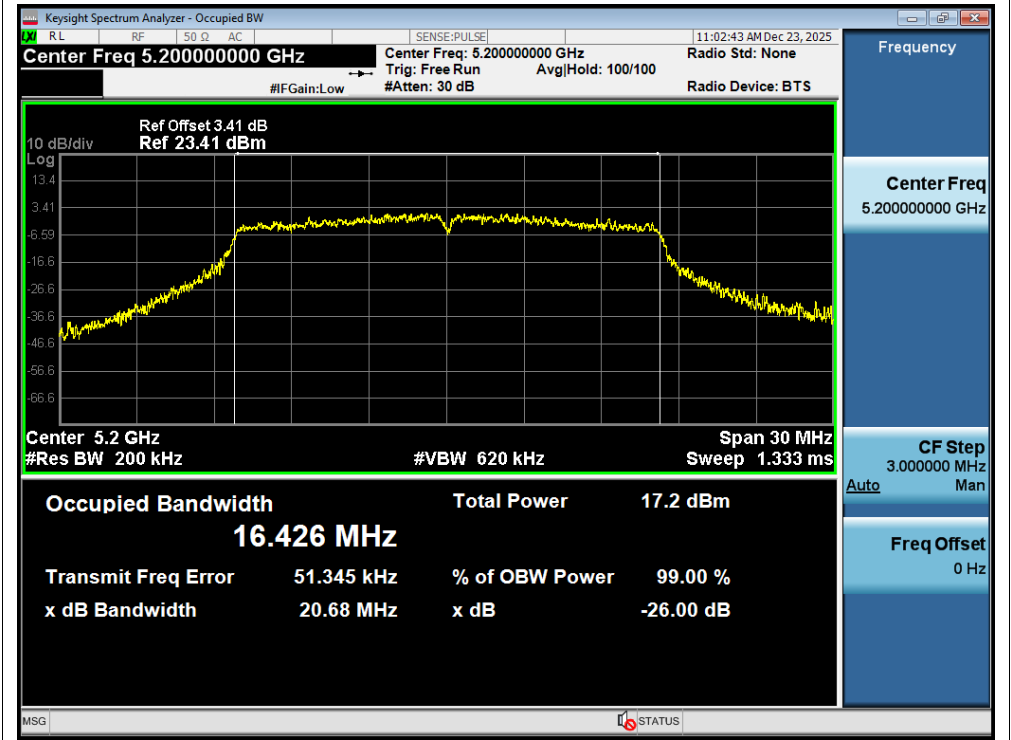
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.408
NVNT	a	5200	Ant1	16.426
NVNT	a	5240	Ant1	16.452
NVNT	n20	5180	Ant1	17.615
NVNT	n20	5200	Ant1	17.623
NVNT	n20	5240	Ant1	17.665
NVNT	n40	5190	Ant1	36.064
NVNT	n40	5230	Ant1	36.115
NVNT	ac20	5180	Ant1	17.603
NVNT	ac20	5200	Ant1	17.636
NVNT	ac20	5240	Ant1	17.621
NVNT	ax20	5180	Ant1	18.899
NVNT	ax20	5200	Ant1	18.875
NVNT	ax20	5240	Ant1	18.916

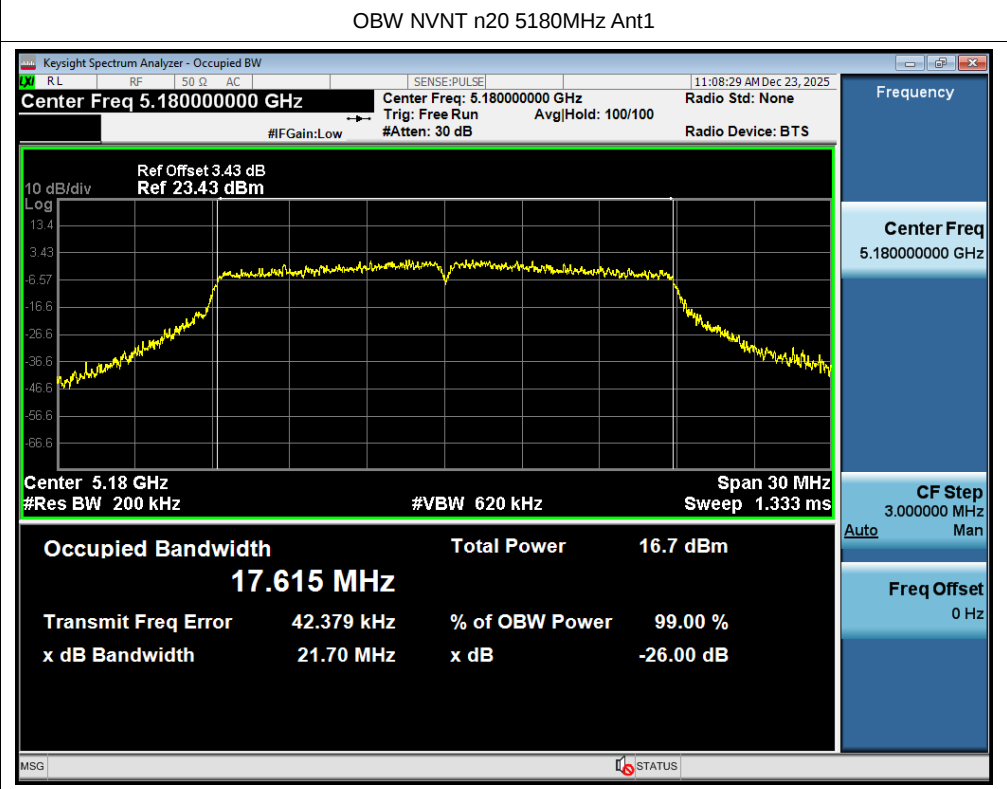
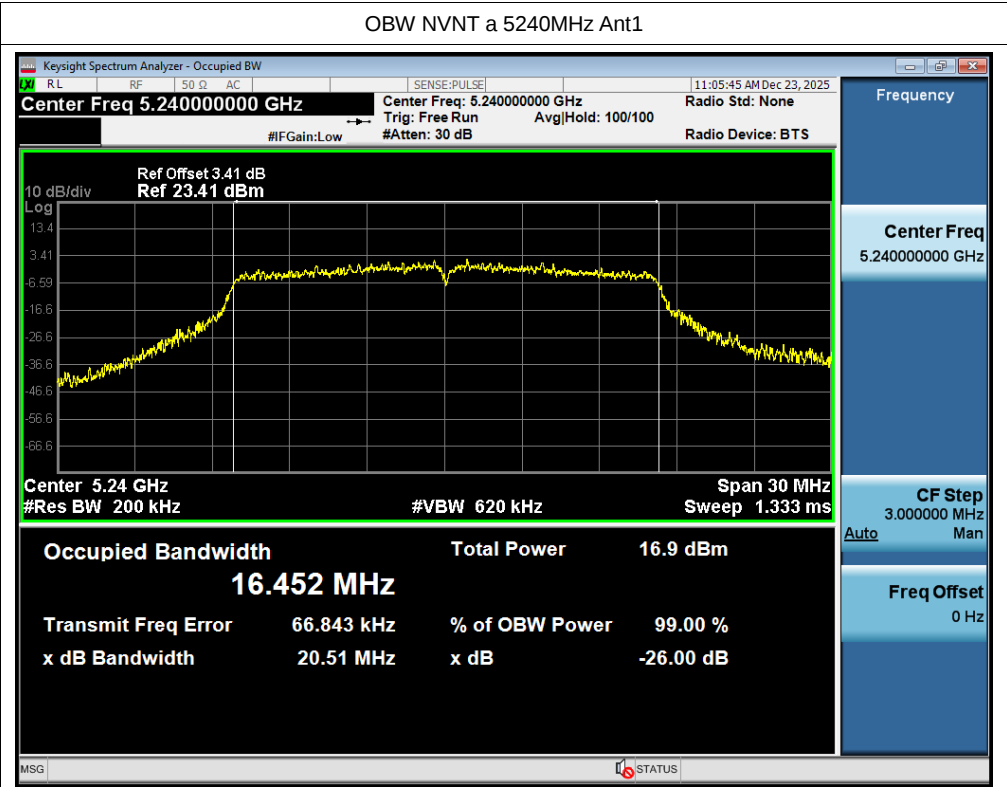
Test Graphs

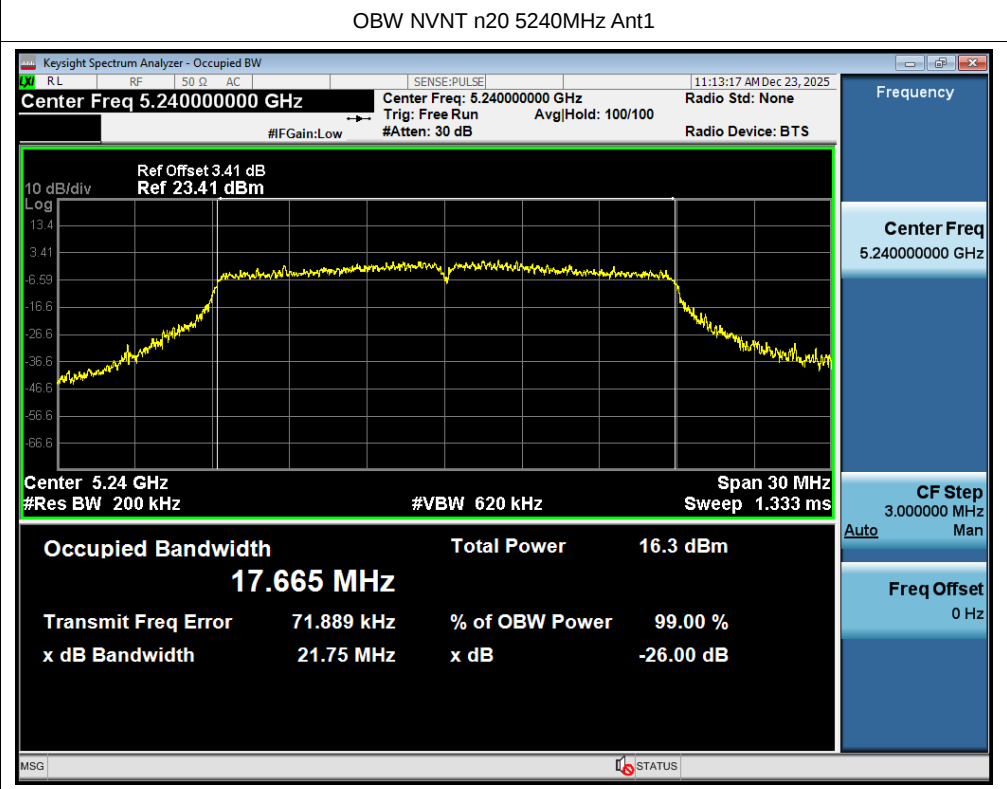
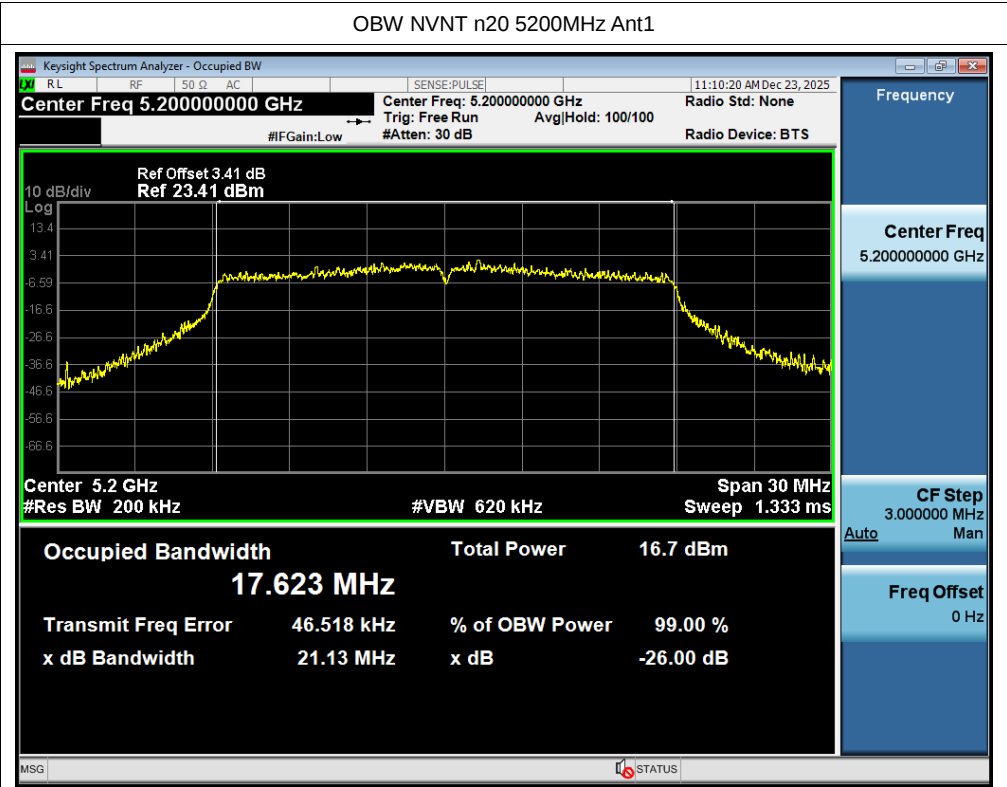
OBW NVNT a 5180MHz Ant1

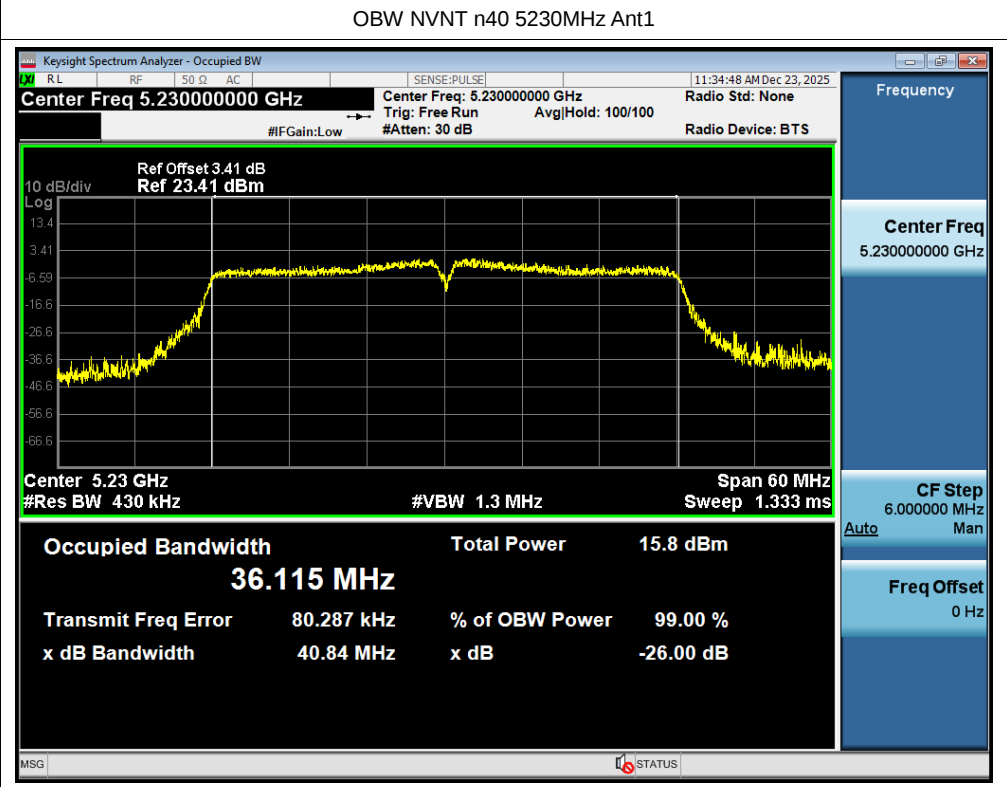
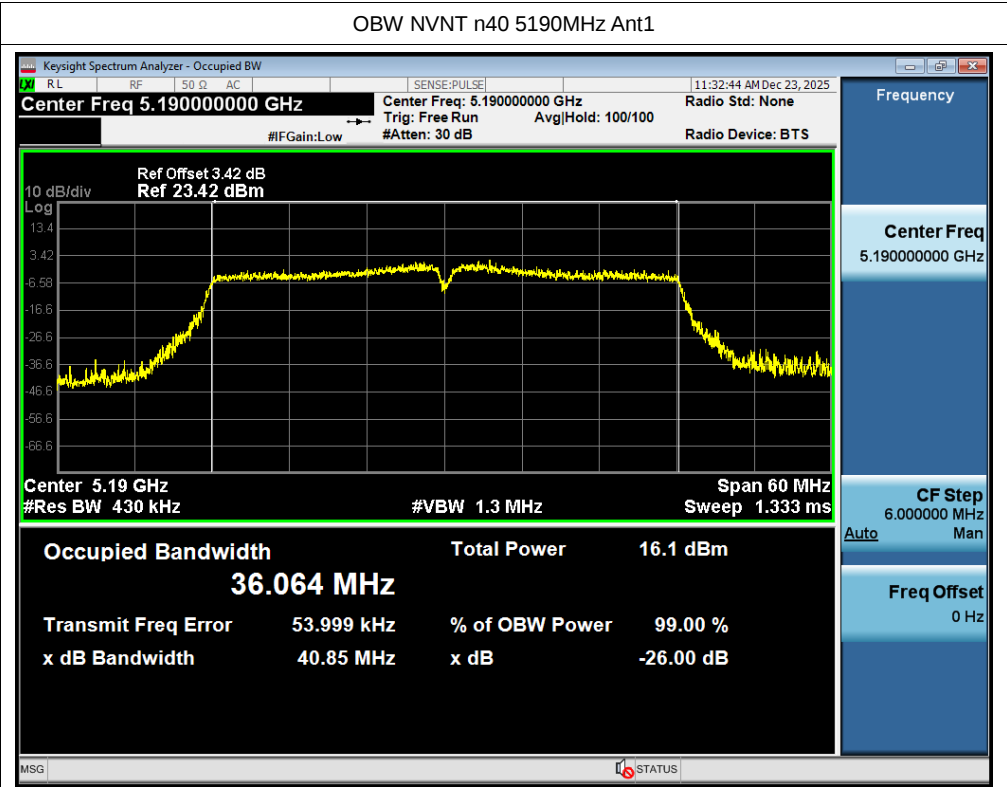


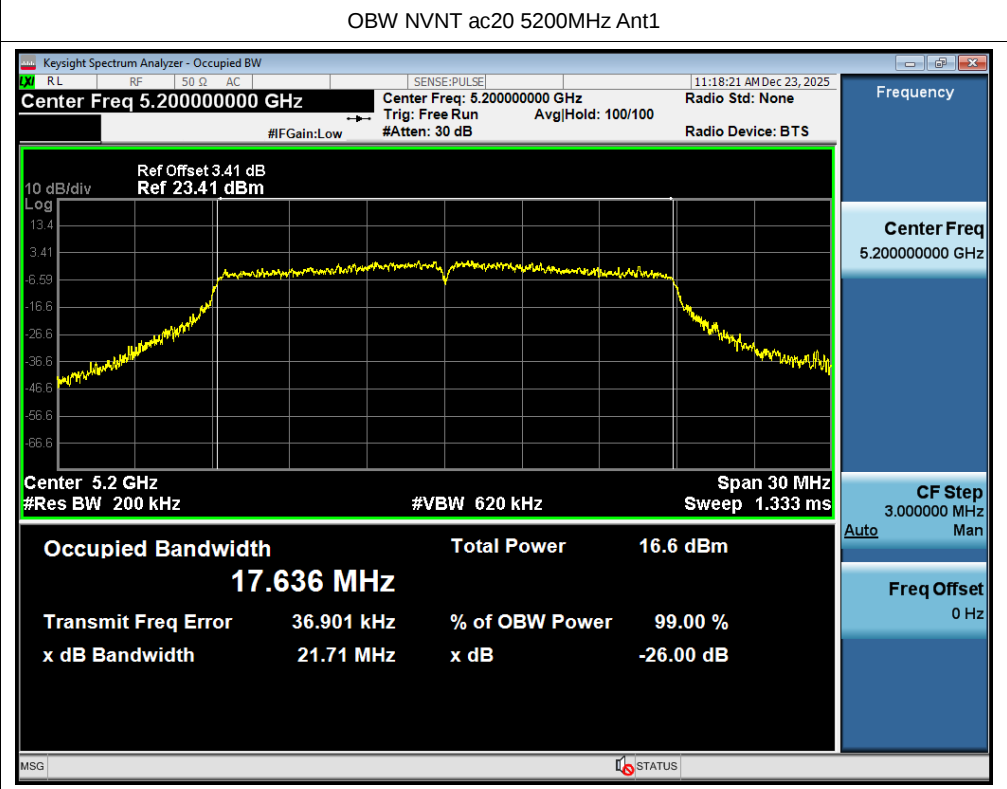
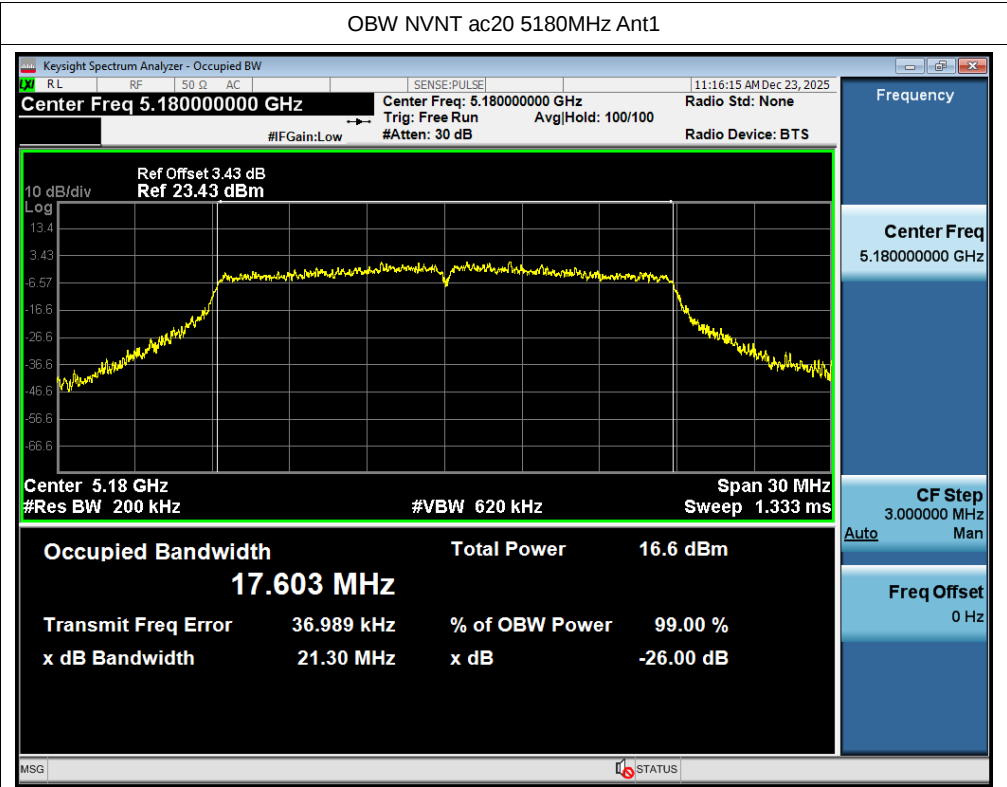
OBW NVNT a 5200MHz Ant1

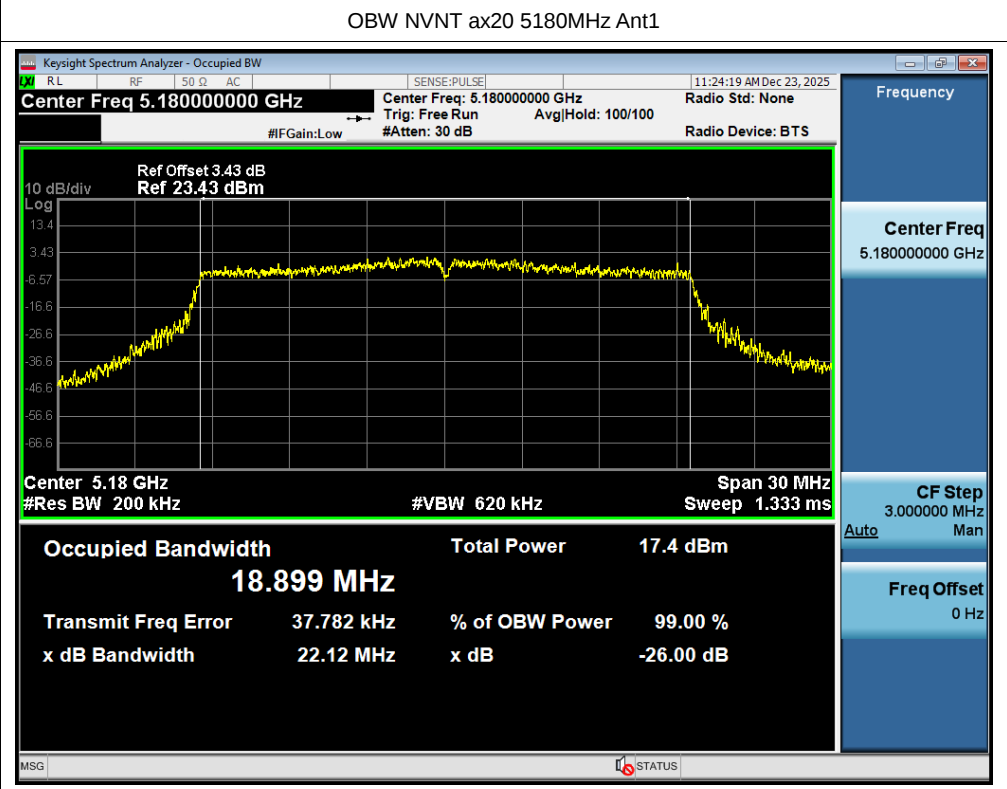
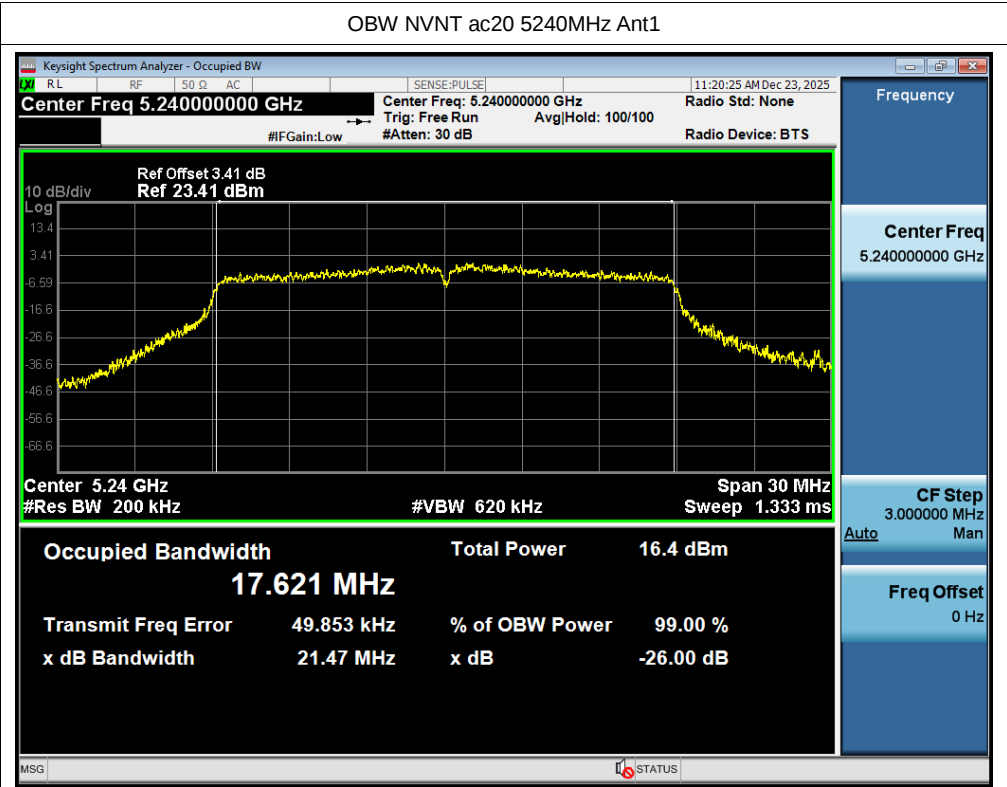


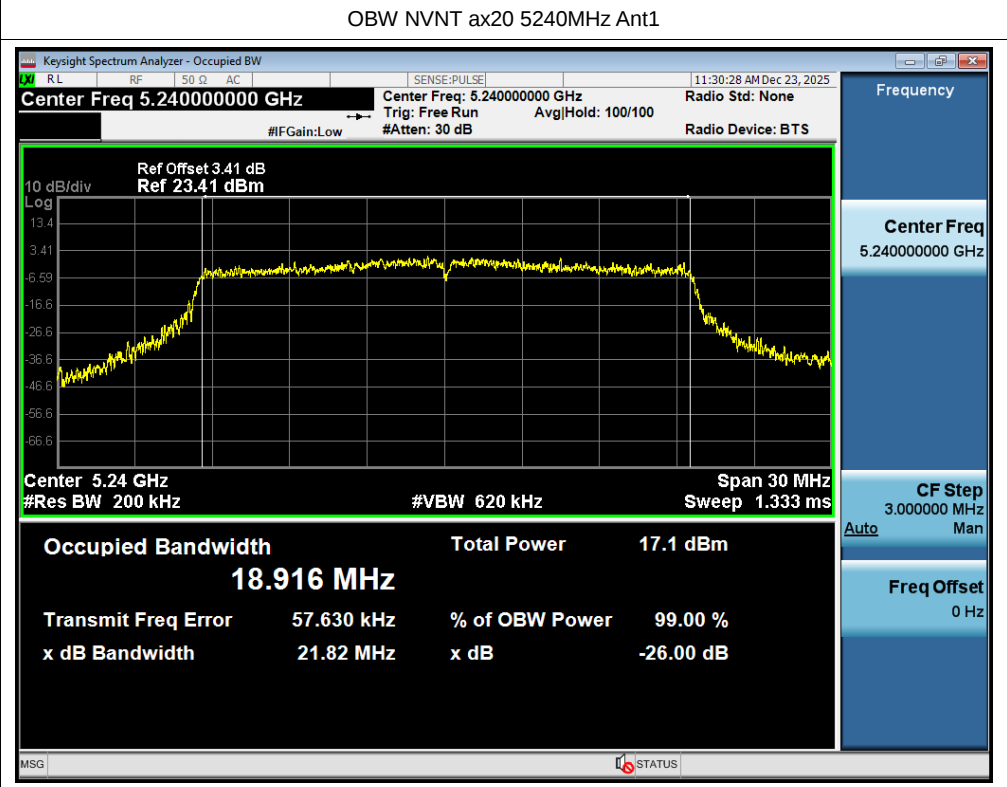
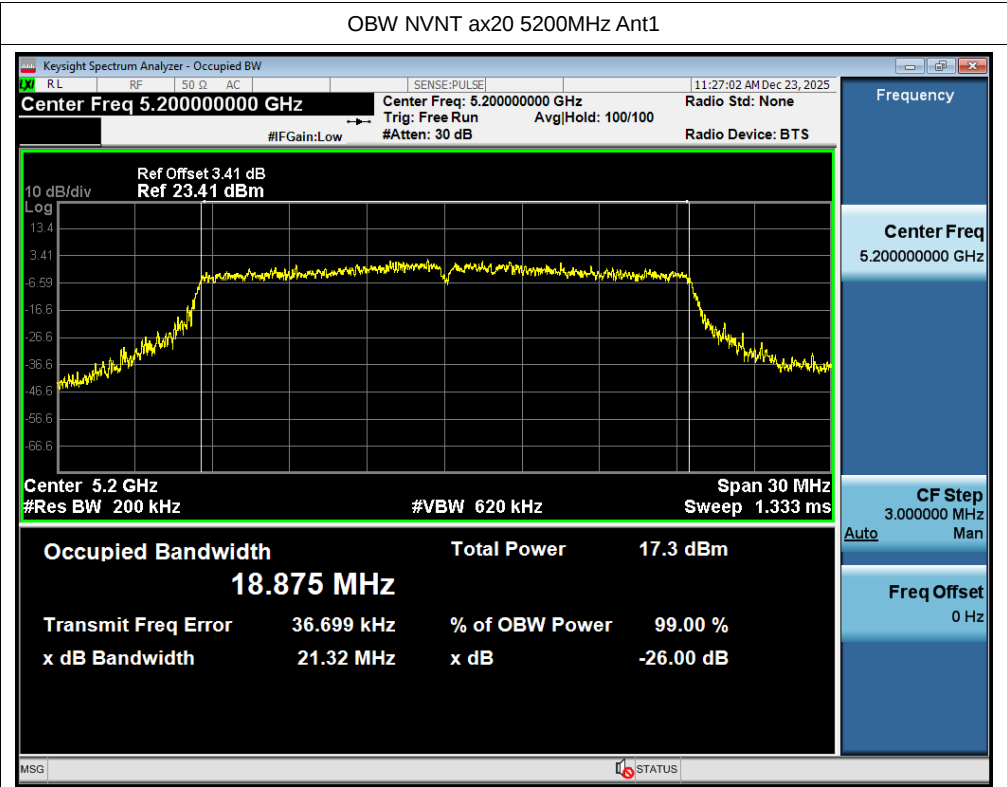










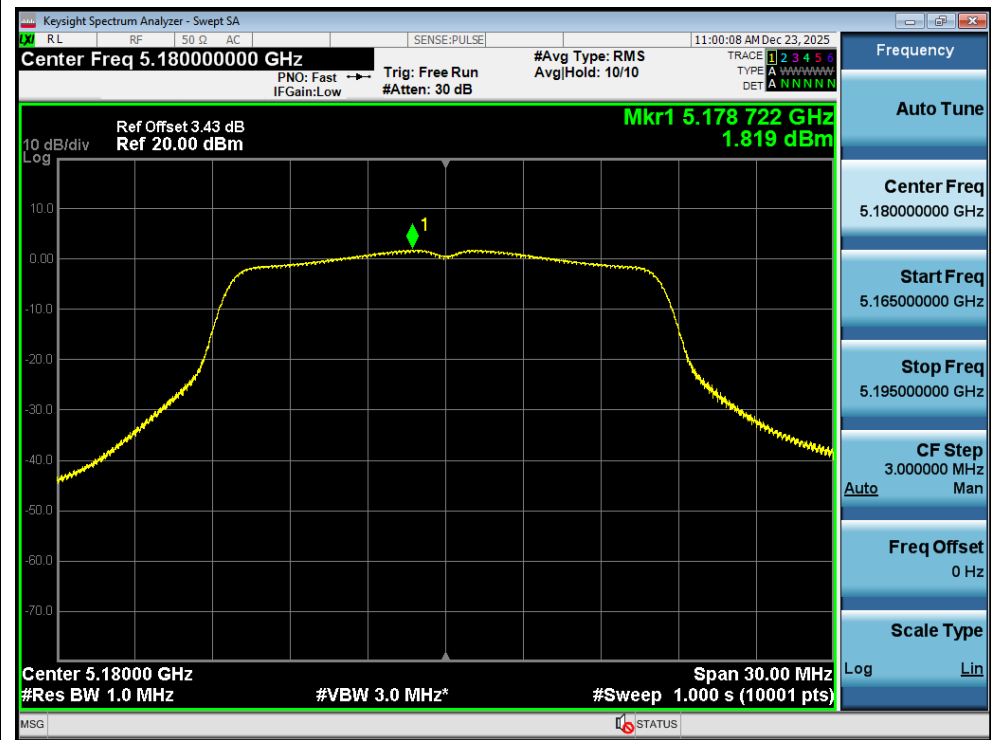


Maximum Power Spectral Density Level

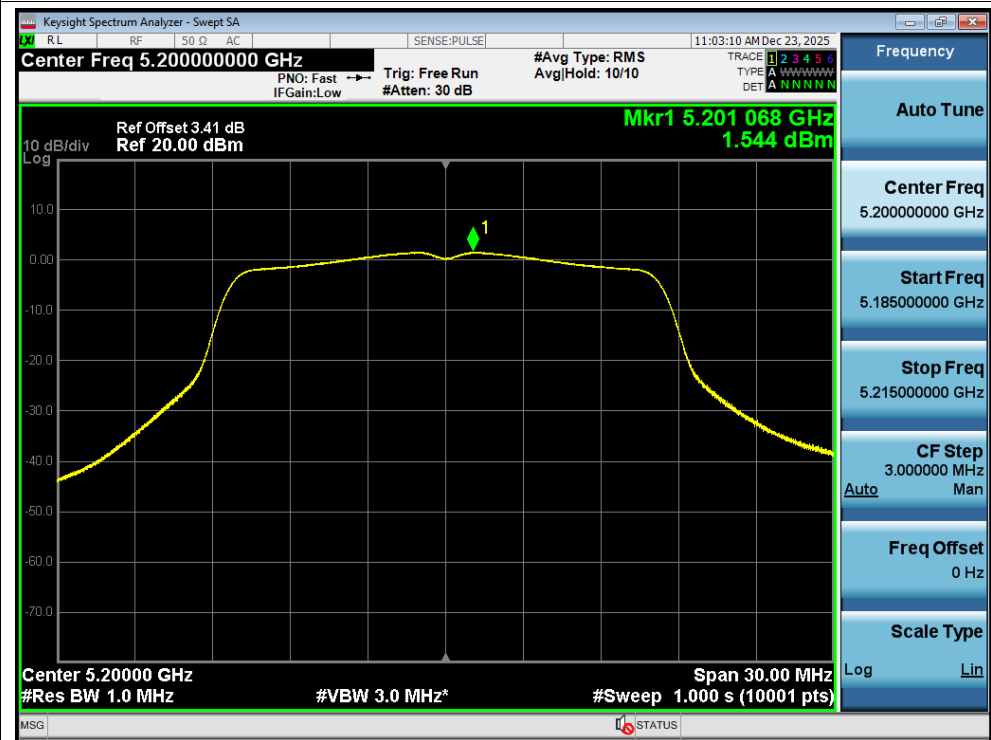
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.82	0	1.82	11	Pass
NVNT	a	5200	Ant1	1.54	0	1.54	11	Pass
NVNT	a	5240	Ant1	1.33	0	1.33	11	Pass
NVNT	n20	5180	Ant1	0.86	0	0.86	11	Pass
NVNT	n20	5200	Ant1	0.76	0	0.76	11	Pass
NVNT	n20	5240	Ant1	0.53	0	0.53	11	Pass
NVNT	n40	5190	Ant1	-1.82	0	-1.82	11	Pass
NVNT	n40	5230	Ant1	-0.18	0	-0.18	11	Pass
NVNT	ac20	5180	Ant1	0.95	0	0.95	11	Pass
NVNT	ac20	5200	Ant1	0.79	0	0.79	11	Pass
NVNT	ac20	5240	Ant1	0.53	0	0.53	11	Pass
NVNT	ax20	5180	Ant1	1.22	0	1.22	11	Pass
NVNT	ax20	5200	Ant1	1.3	0	1.3	11	Pass
NVNT	ax20	5240	Ant1	1.37	0	1.37	11	Pass

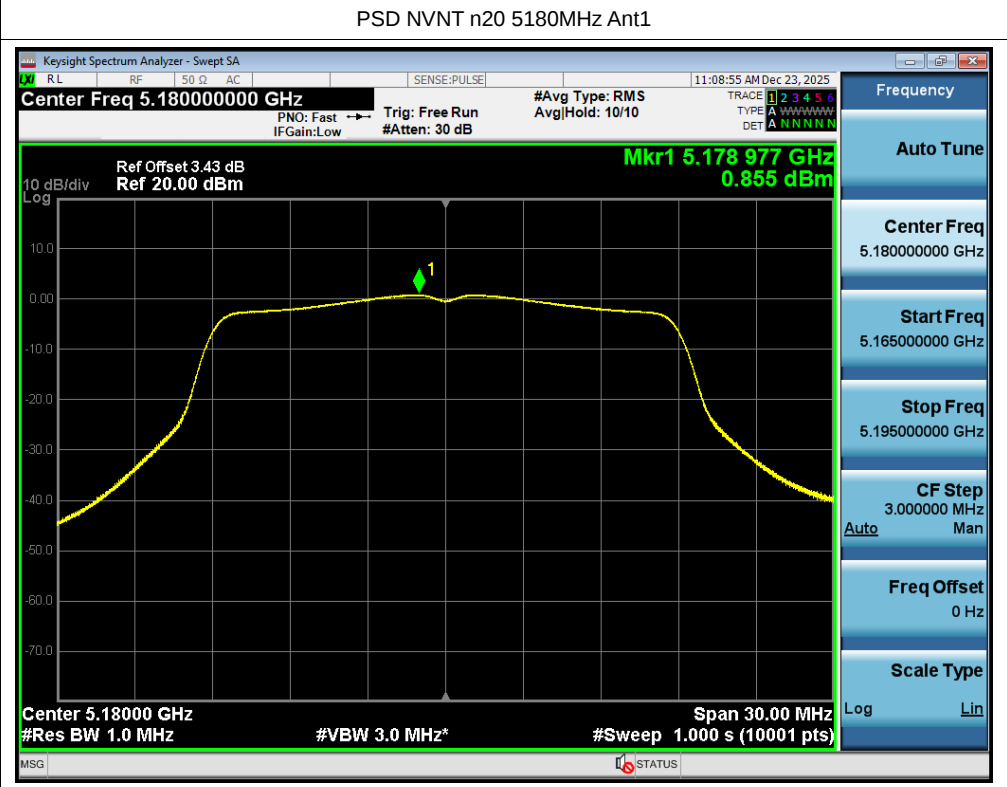
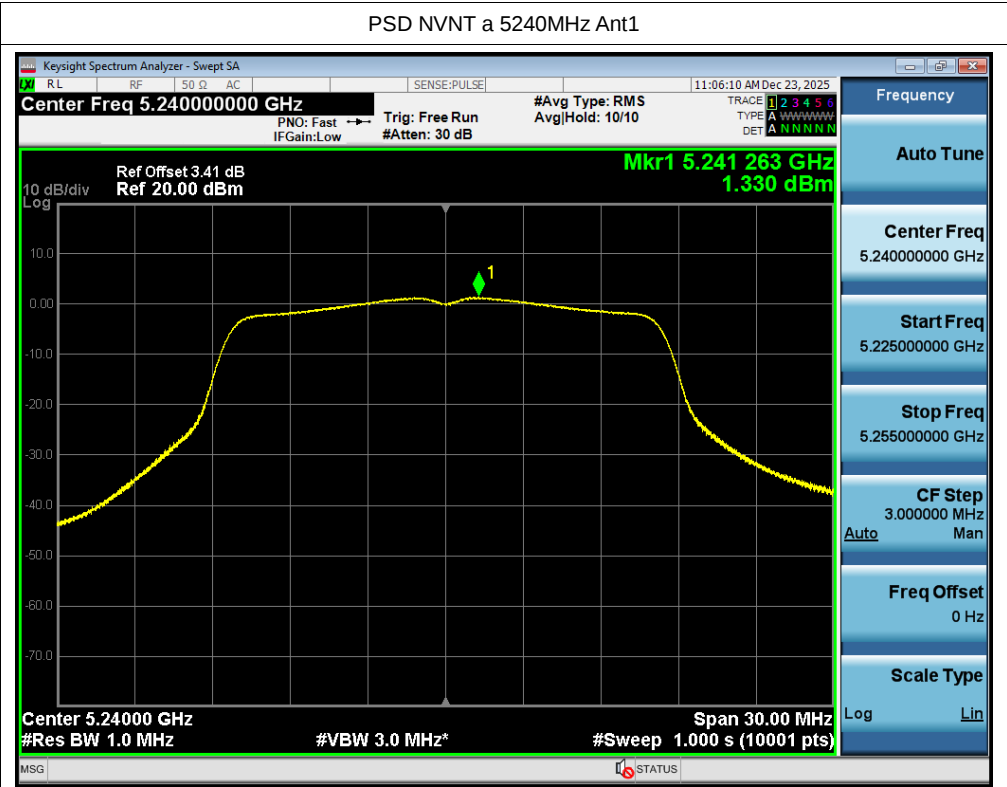
Test Graphs

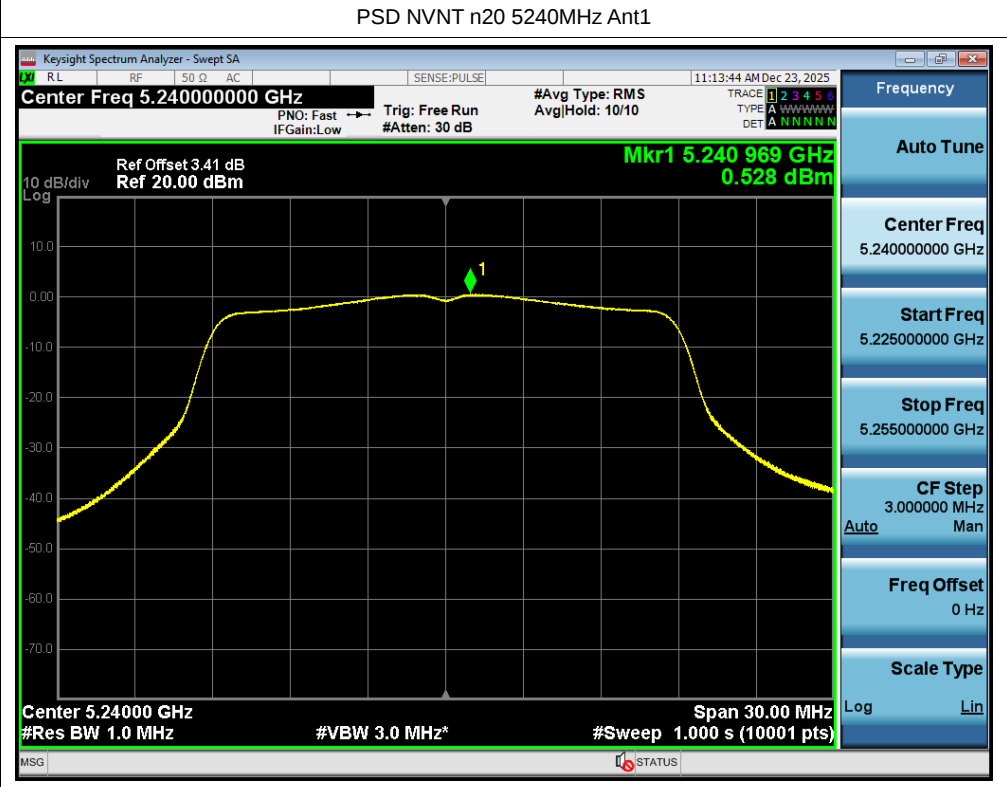
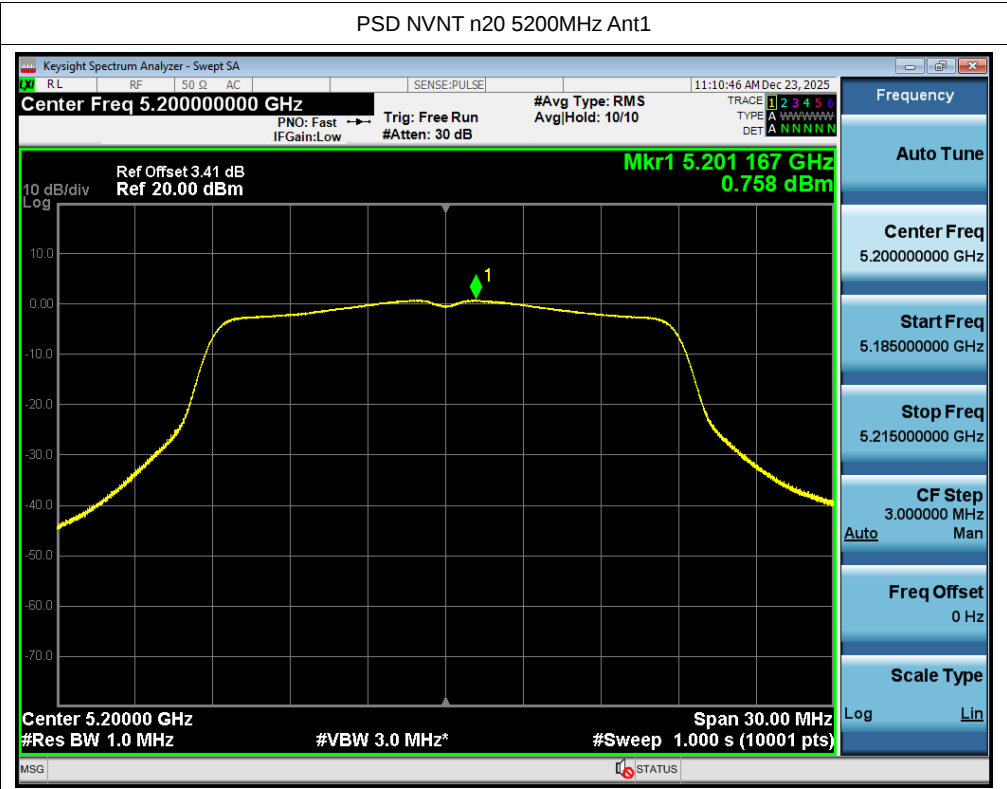
PSD NVNT a 5180MHz Ant1

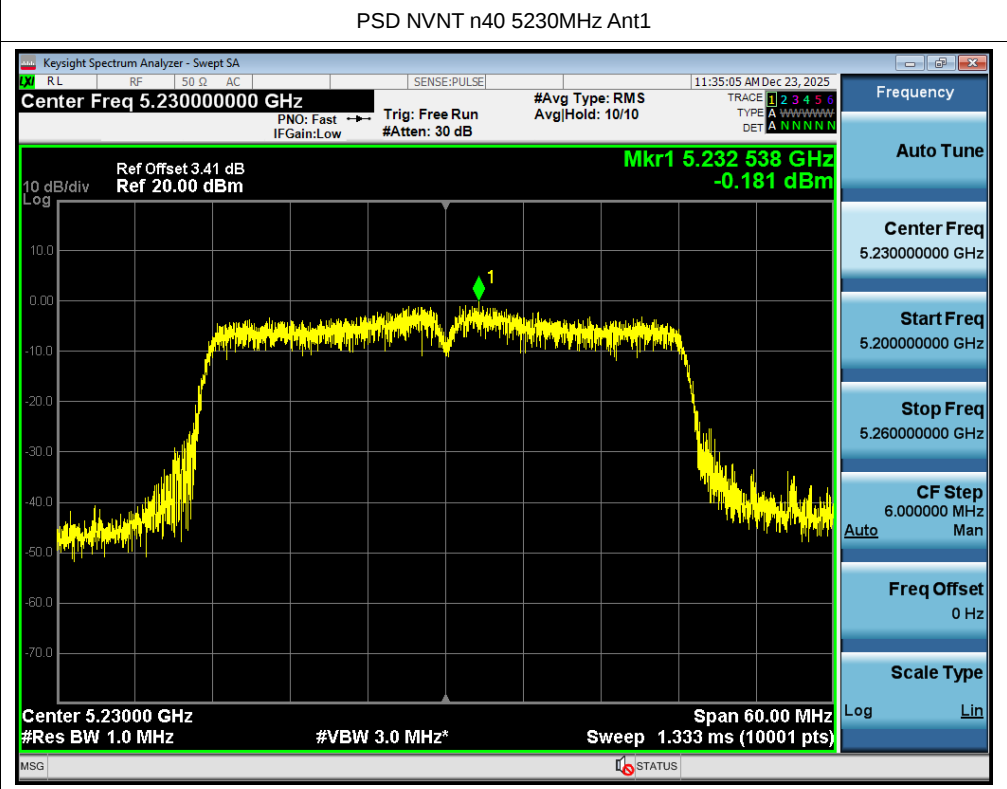
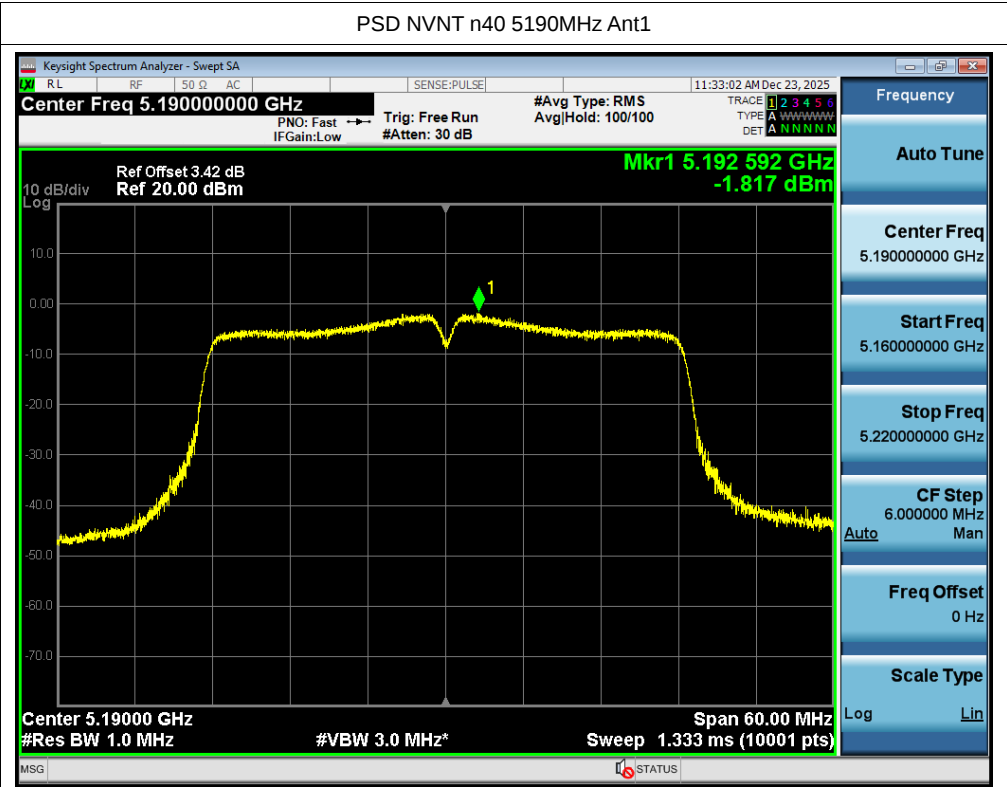


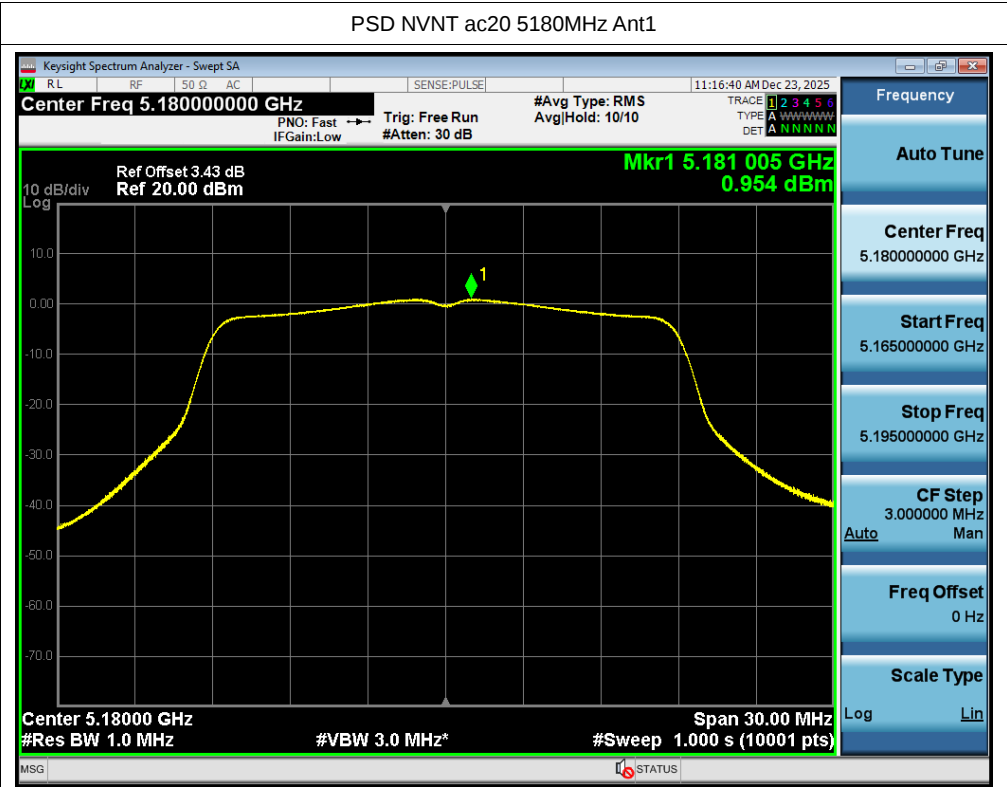
PSD NVNT a 5200MHz Ant1

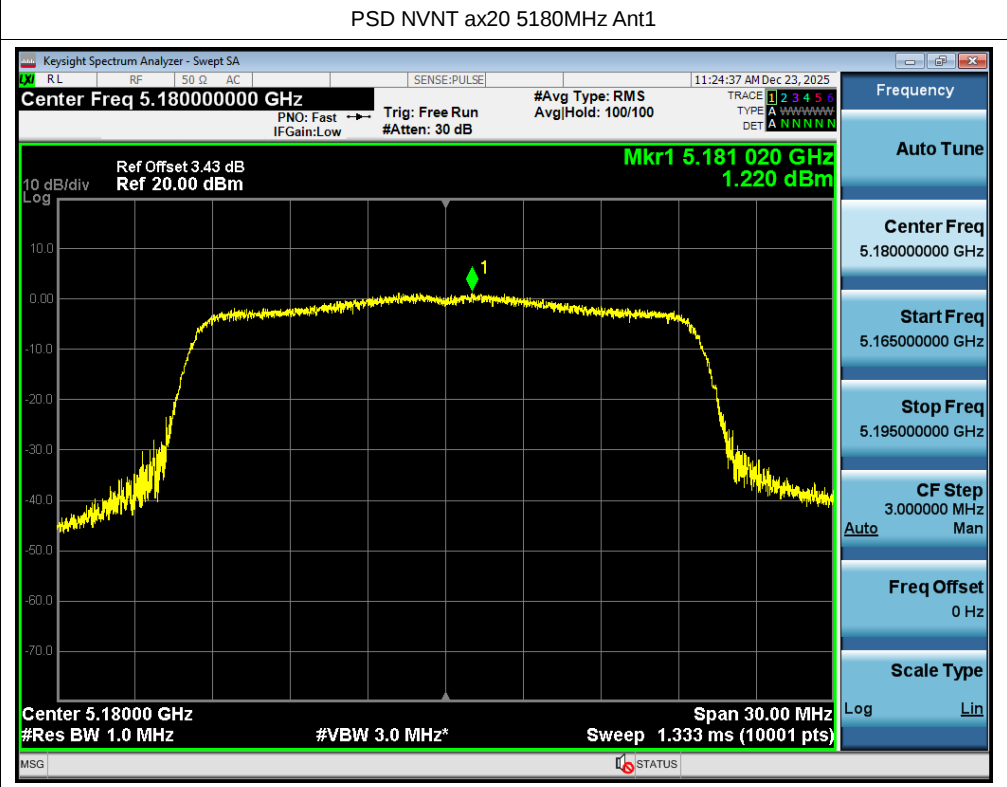
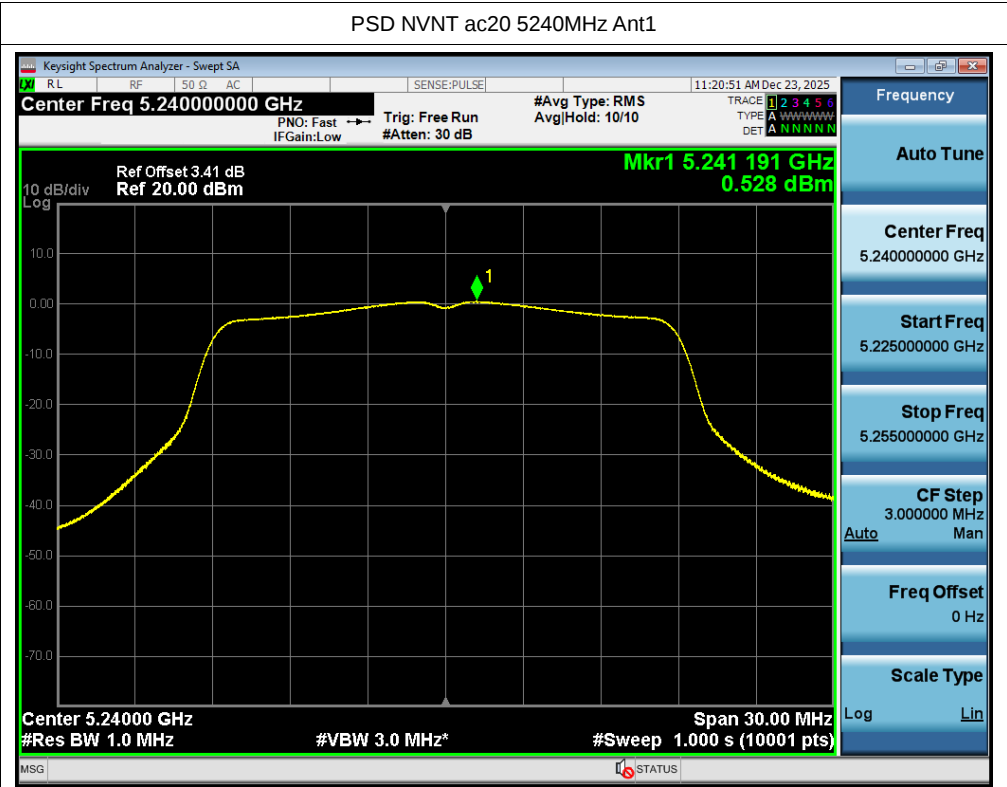


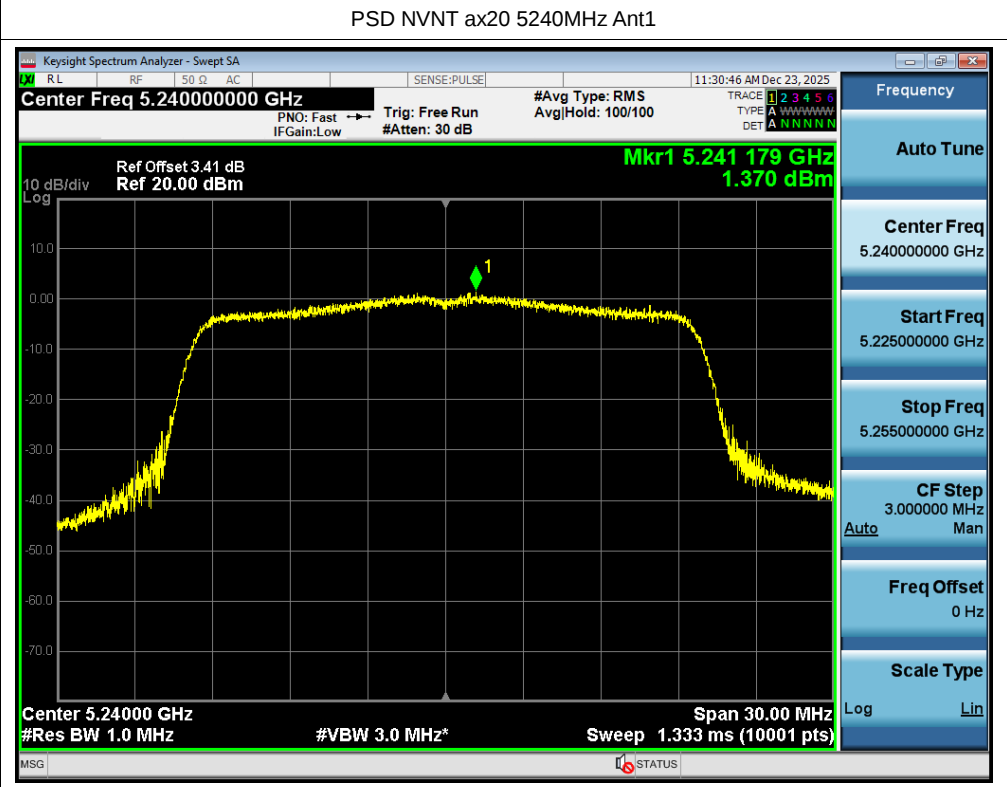
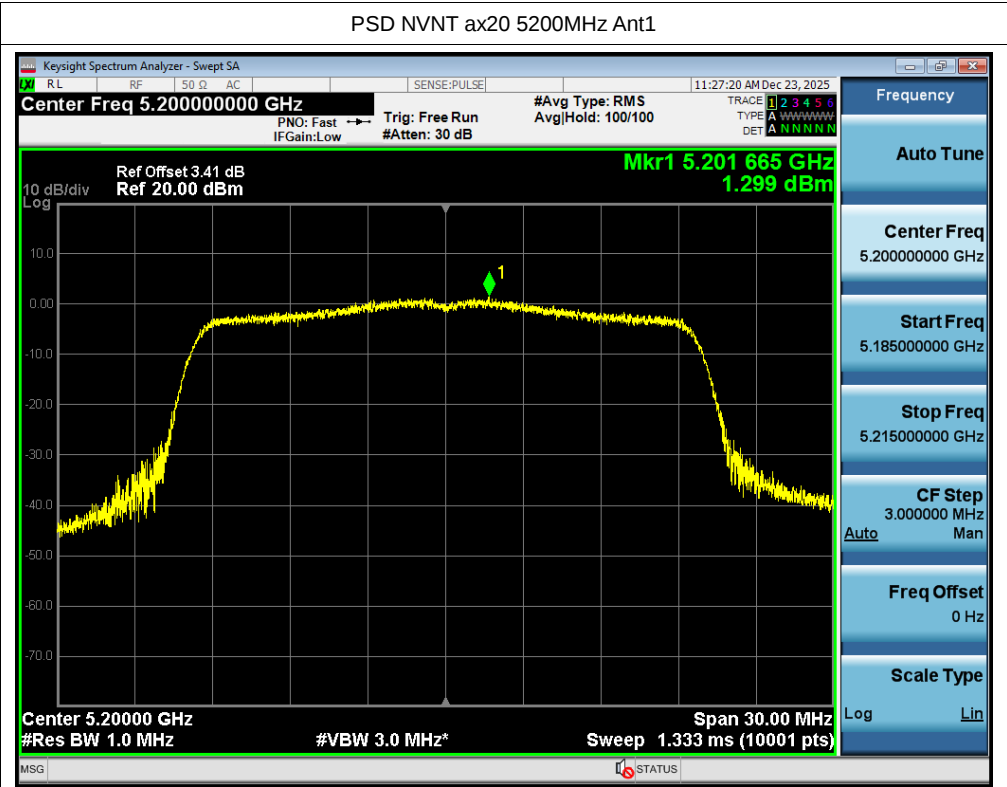










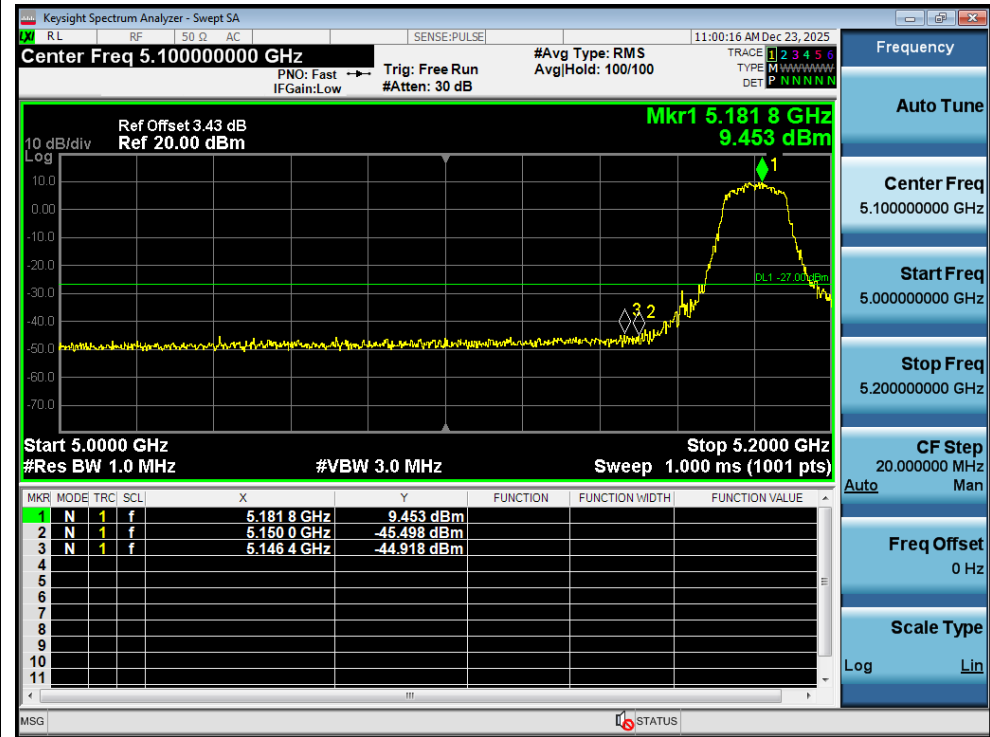


Band Edge

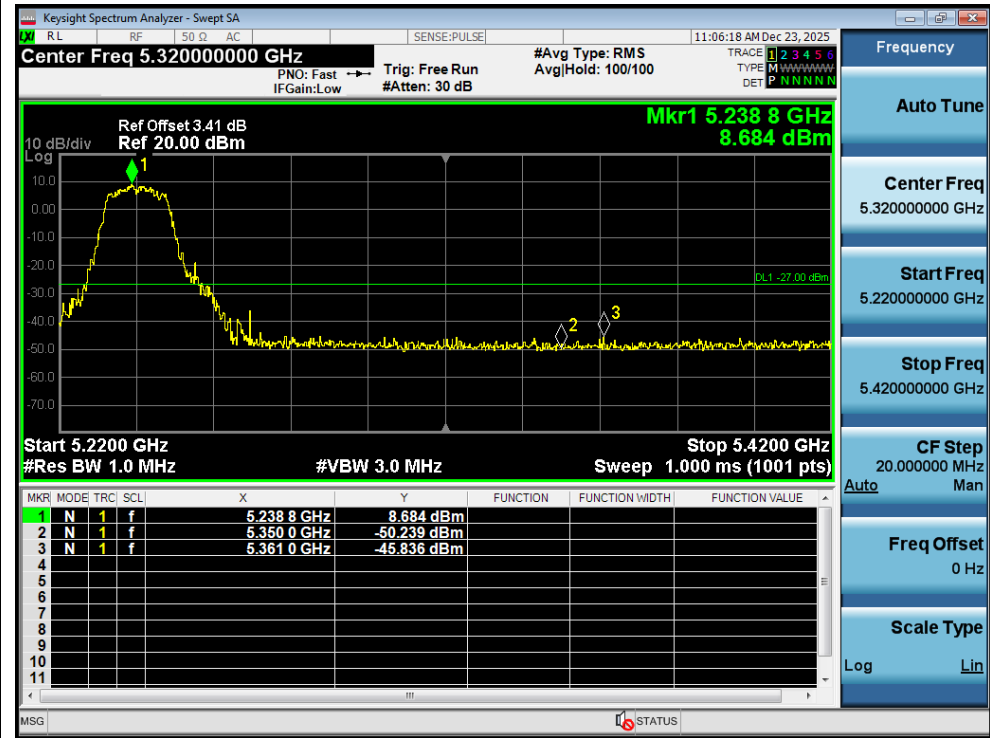
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-44.91	-27	Pass
NVNT	a	5240	Ant1	-45.83	-27	Pass
NVNT	n20	5180	Ant1	-45.27	-27	Pass
NVNT	n20	5240	Ant1	-46.01	-27	Pass
NVNT	n40	5190	Ant1	-40.6	-27	Pass
NVNT	n40	5230	Ant1	-46.14	-27	Pass
NVNT	ac20	5180	Ant1	-44.16	-27	Pass
NVNT	ac20	5240	Ant1	-46.45	-27	Pass
NVNT	ax20	5180	Ant1	-42.63	-27	Pass
NVNT	ax20	5240	Ant1	-46.64	-27	Pass

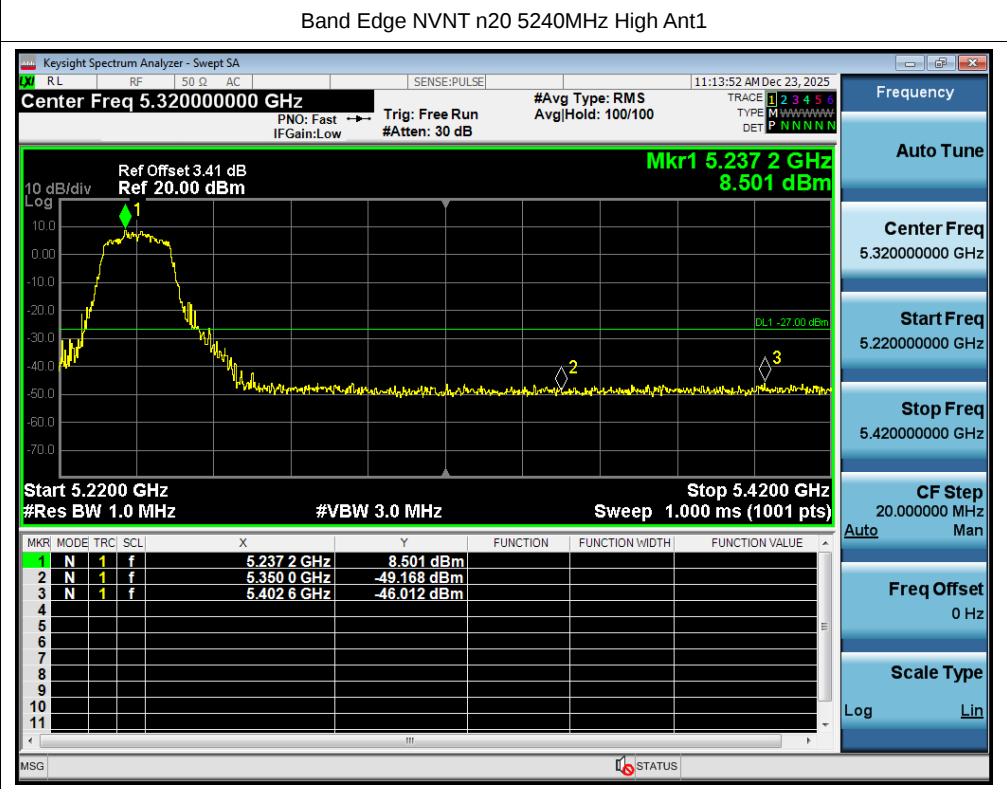
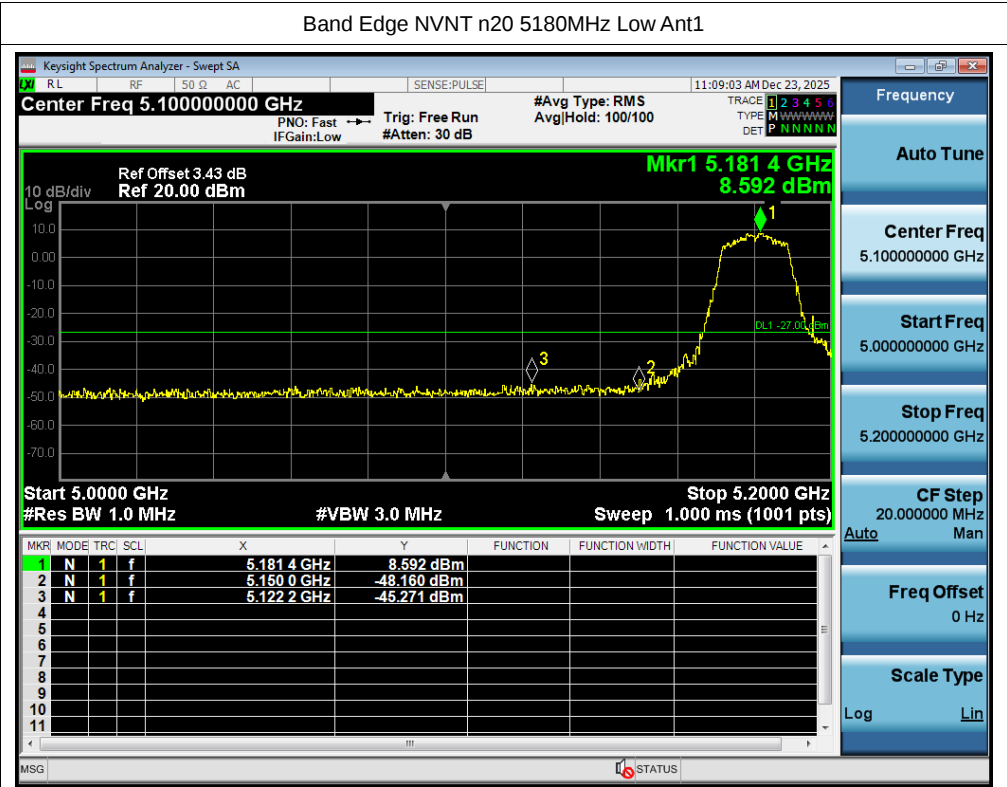
Test Graphs

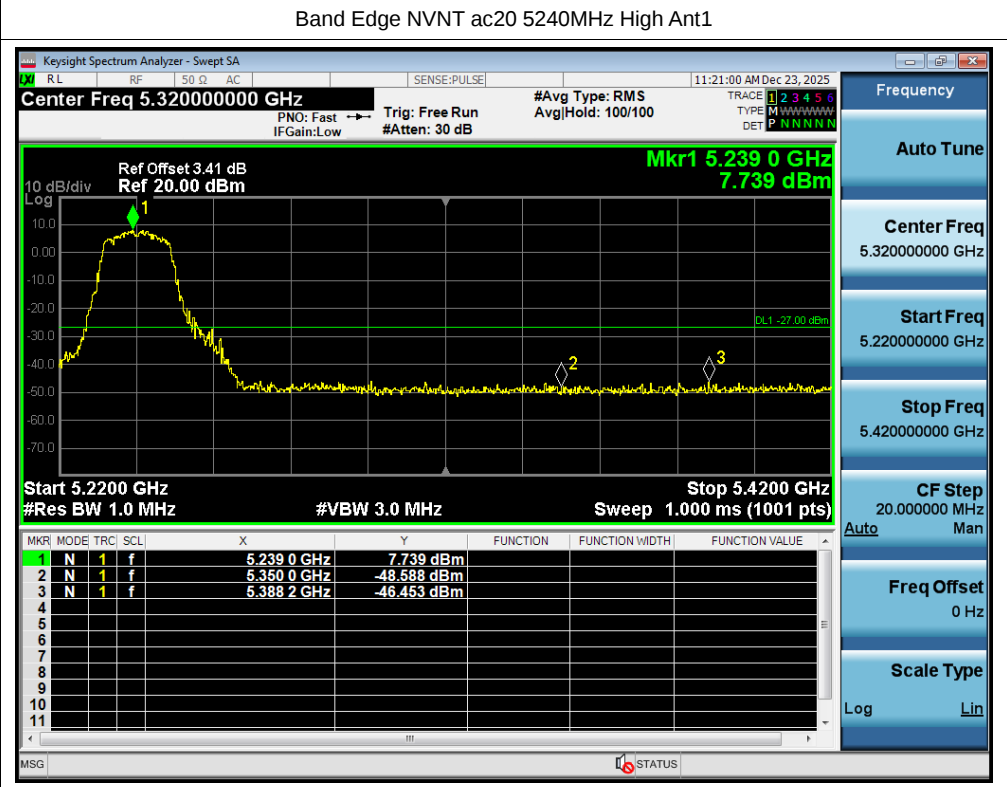
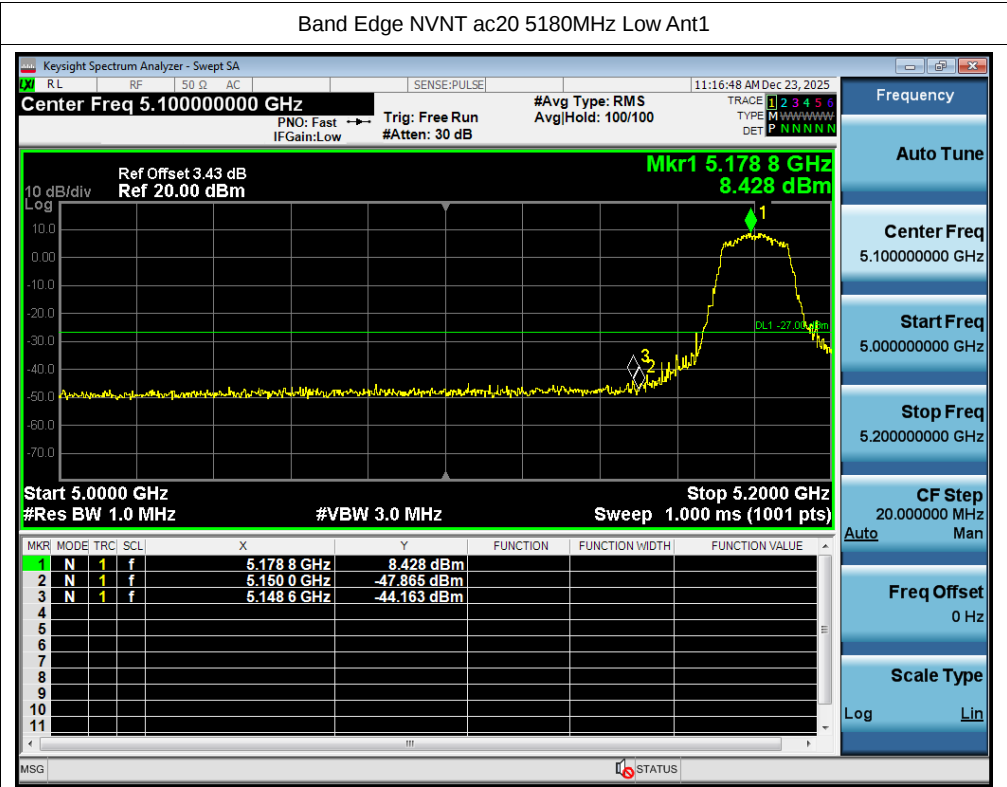
Band Edge NVNT a 5180MHz Low Ant1

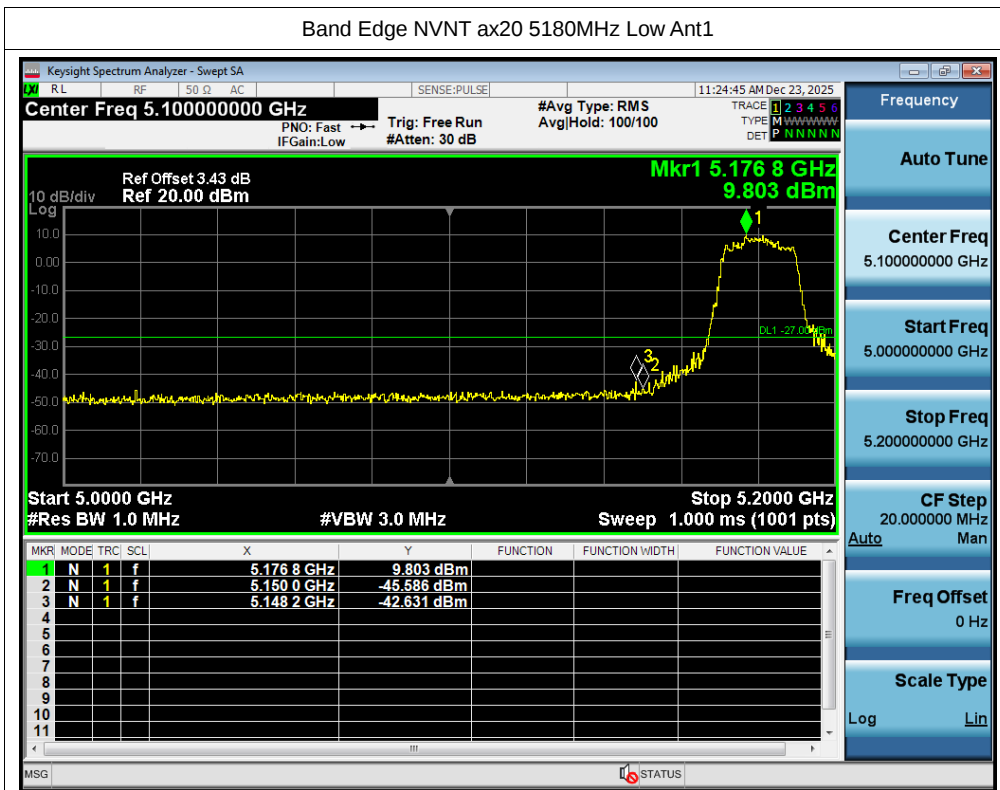


Band Edge NVNT a 5240MHz High Ant1

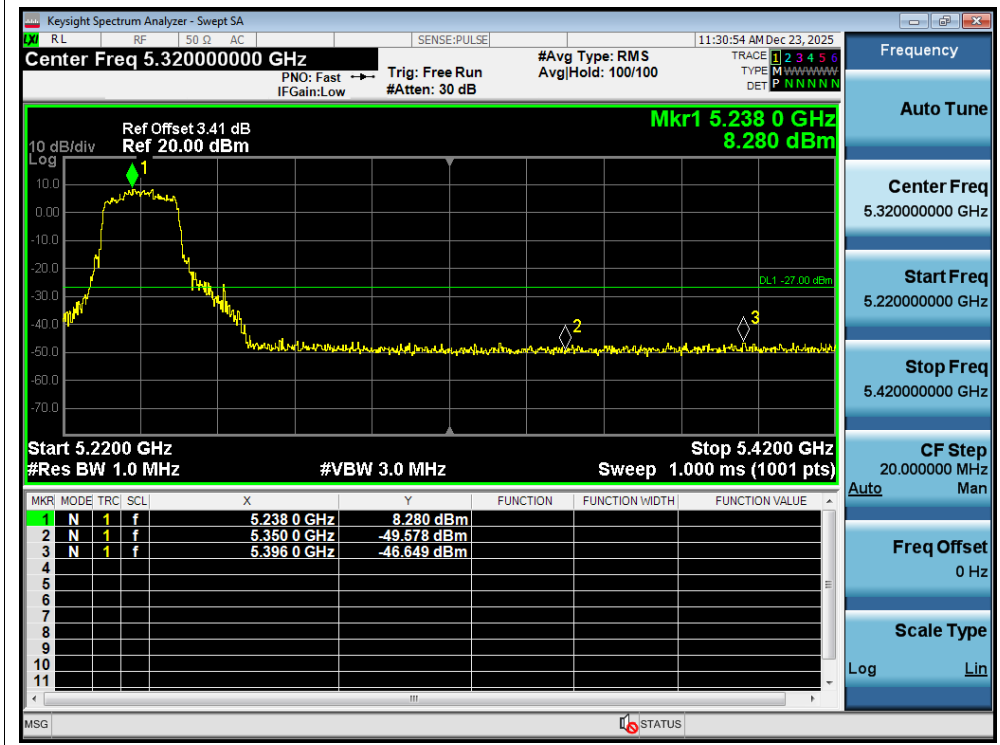








Band Edge NVNT ax20 5240MHz High Ant:

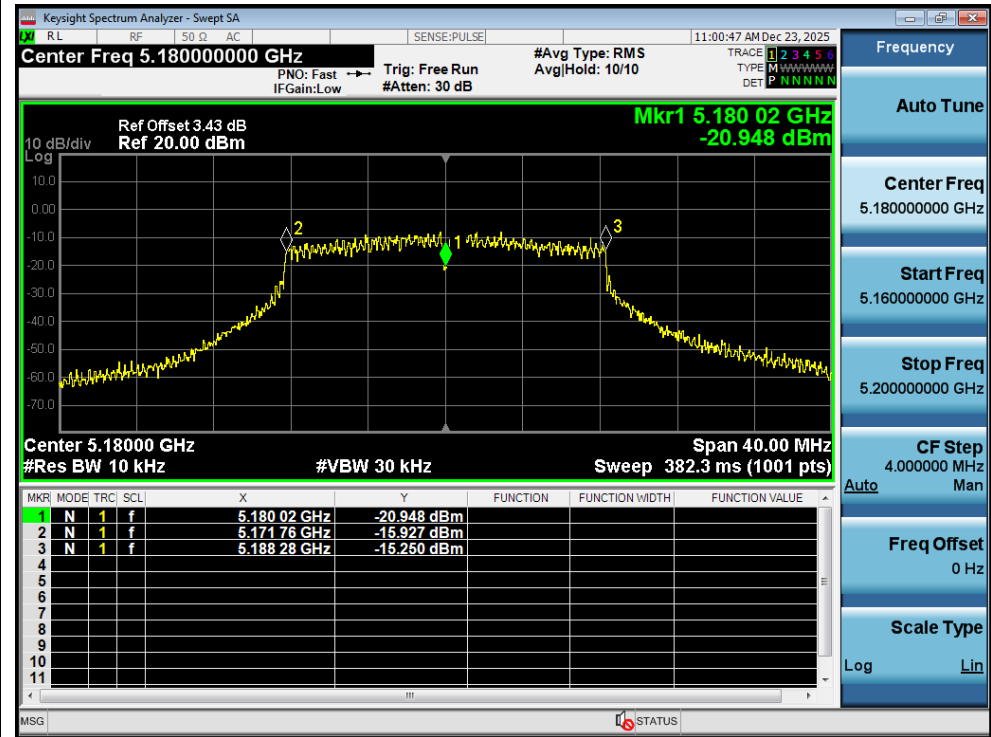


Frequency Stability

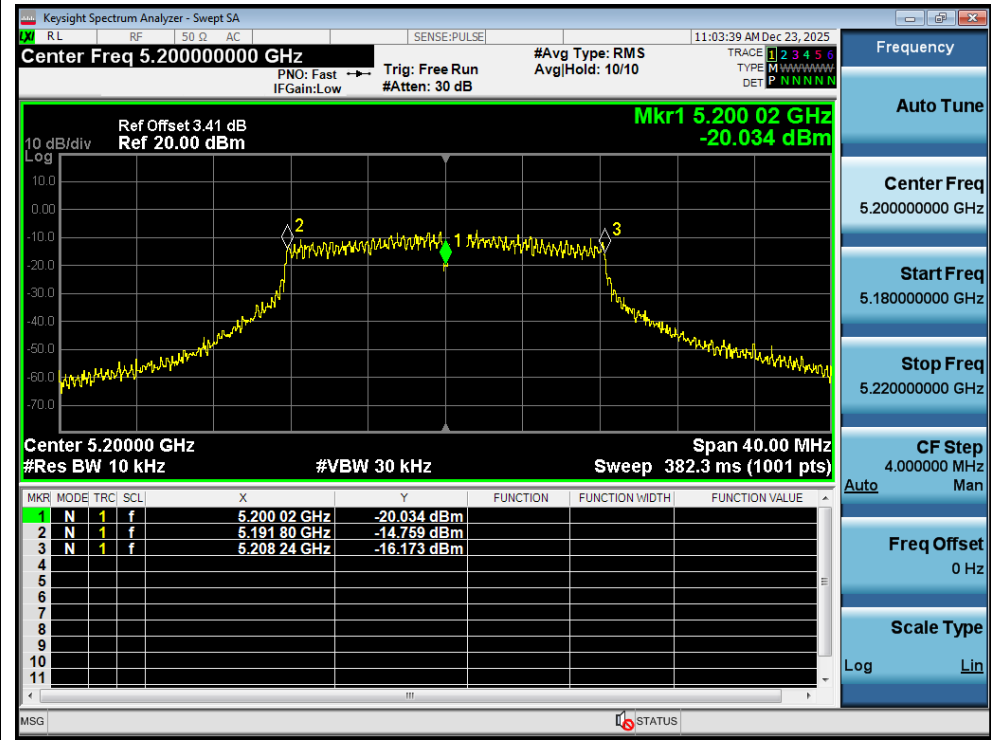
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180.02	20000	3.86	25	Pass
NVNT	a	5200	Ant1	5200.02	20000	3.85	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180.02	20000	3.86	25	Pass
NVNT	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
NVNT	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5230.04	40000	7.65	25	Pass
NVNT	ac20	5180	Ant1	5180.02	20000	3.86	25	Pass
NVNT	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
NVNT	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
NVNT	ax20	5180	Ant1	5180	0	0	25	Pass
NVNT	ax20	5200	Ant1	5200.02	20000	3.85	25	Pass
NVNT	ax20	5240	Ant1	5240	0	0	25	Pass

Test Graphs

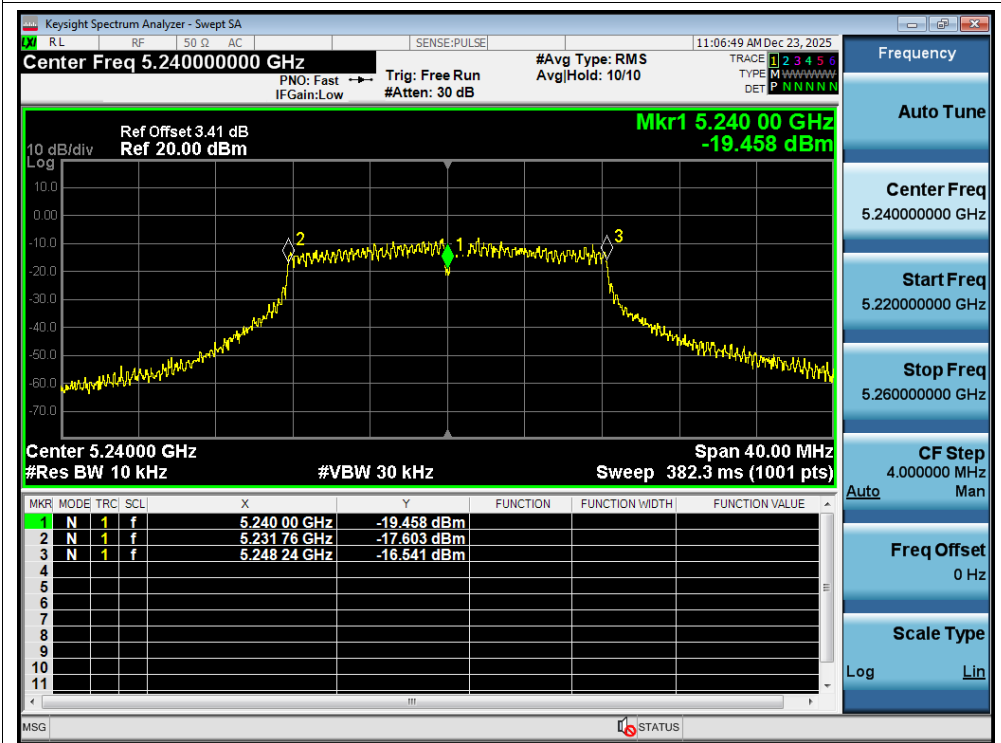
Freq. Stability NVNT a 5180MHz Ant1



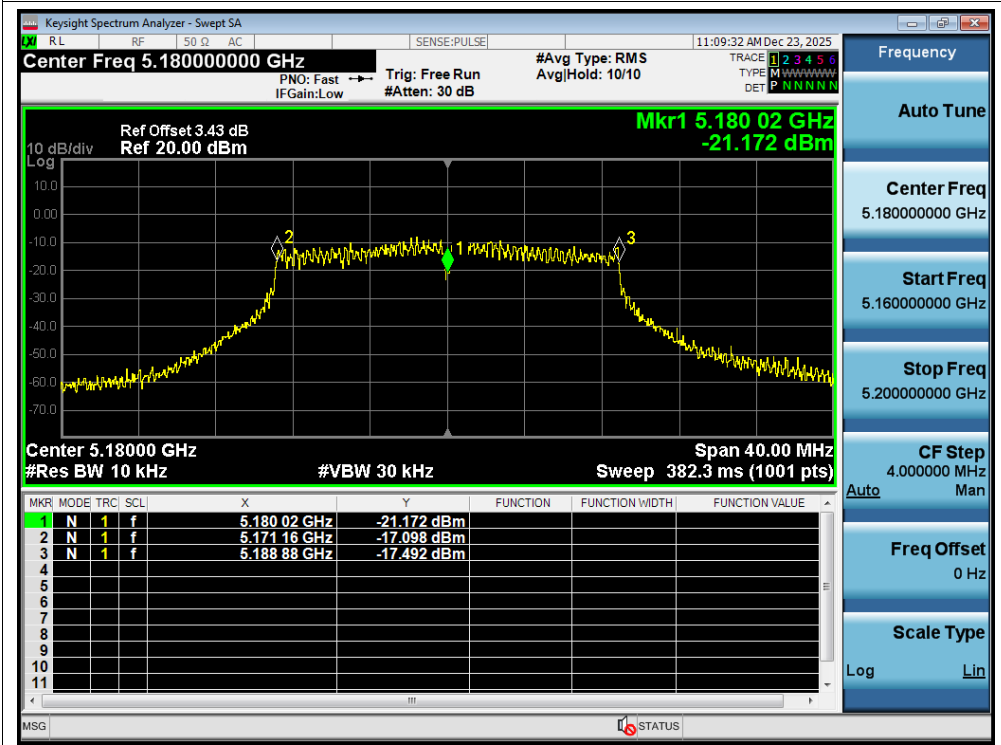
Freq. Stability NVNT a 5200MHz Ant1

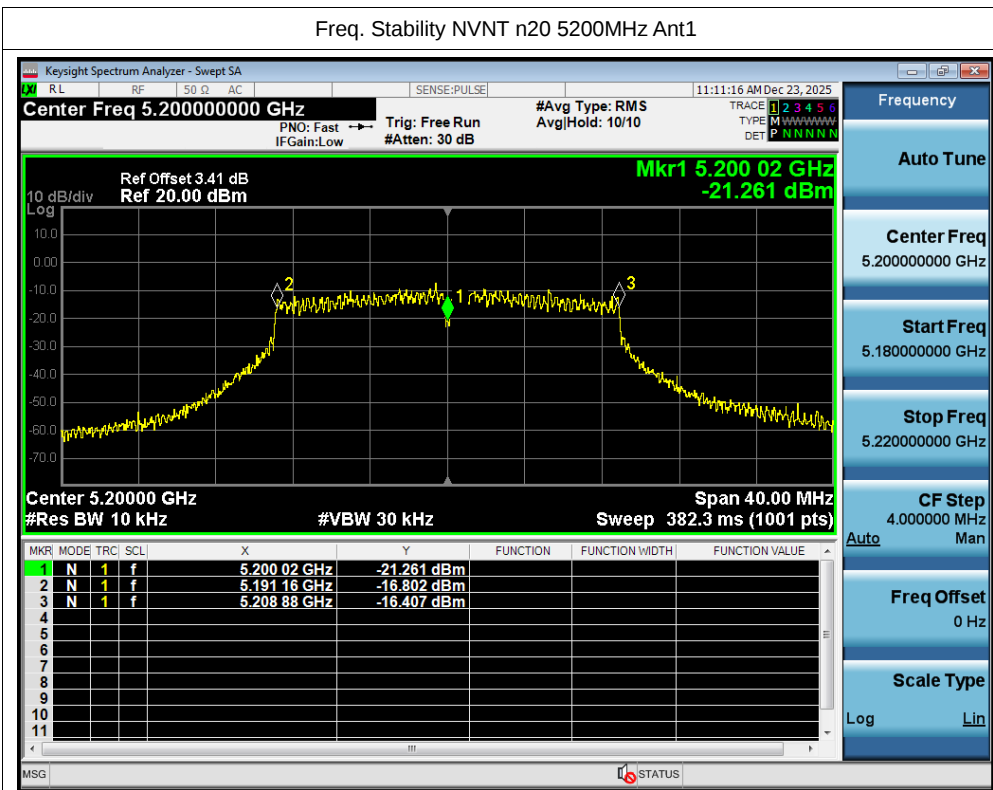


Freq. Stability NVNT a 5240MHz Ant1

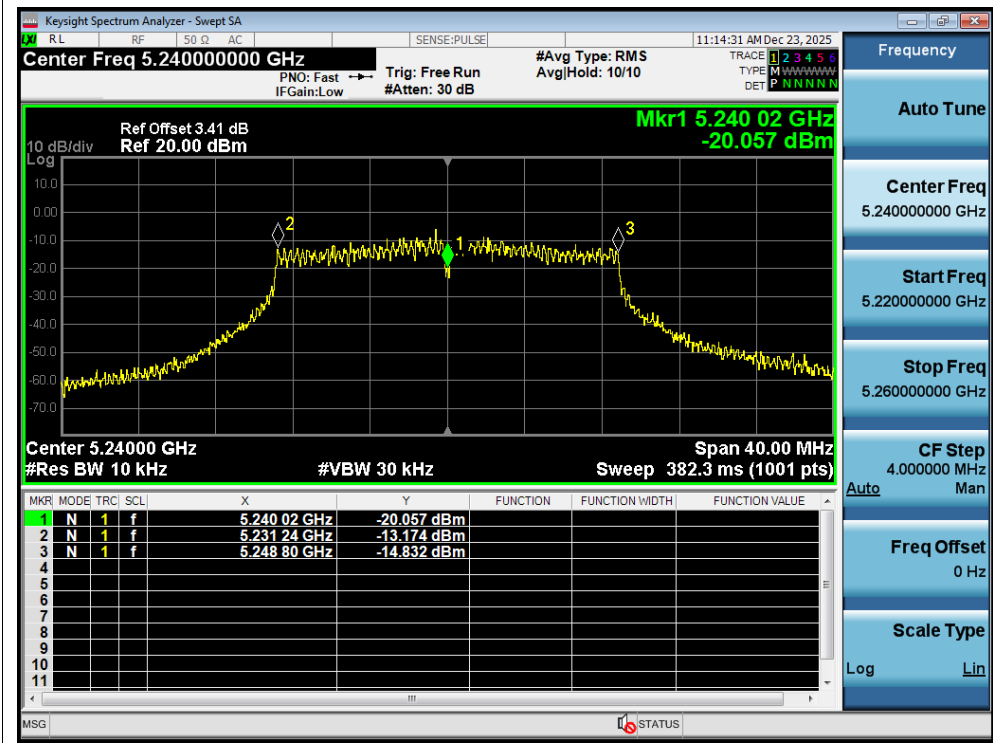


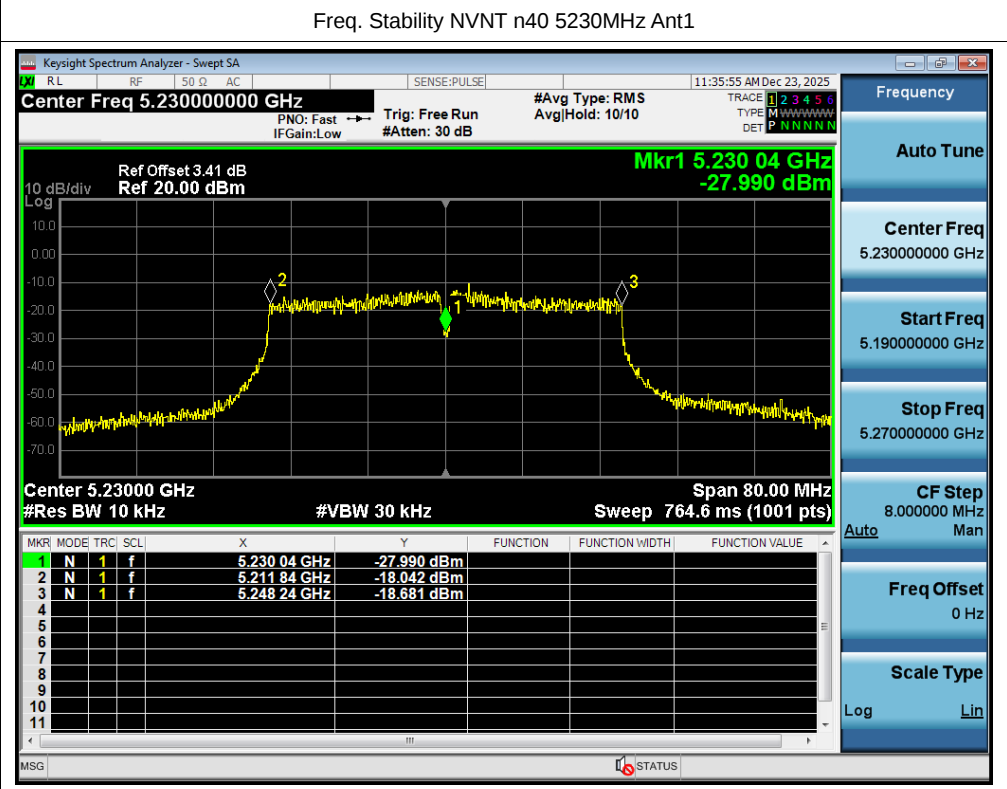
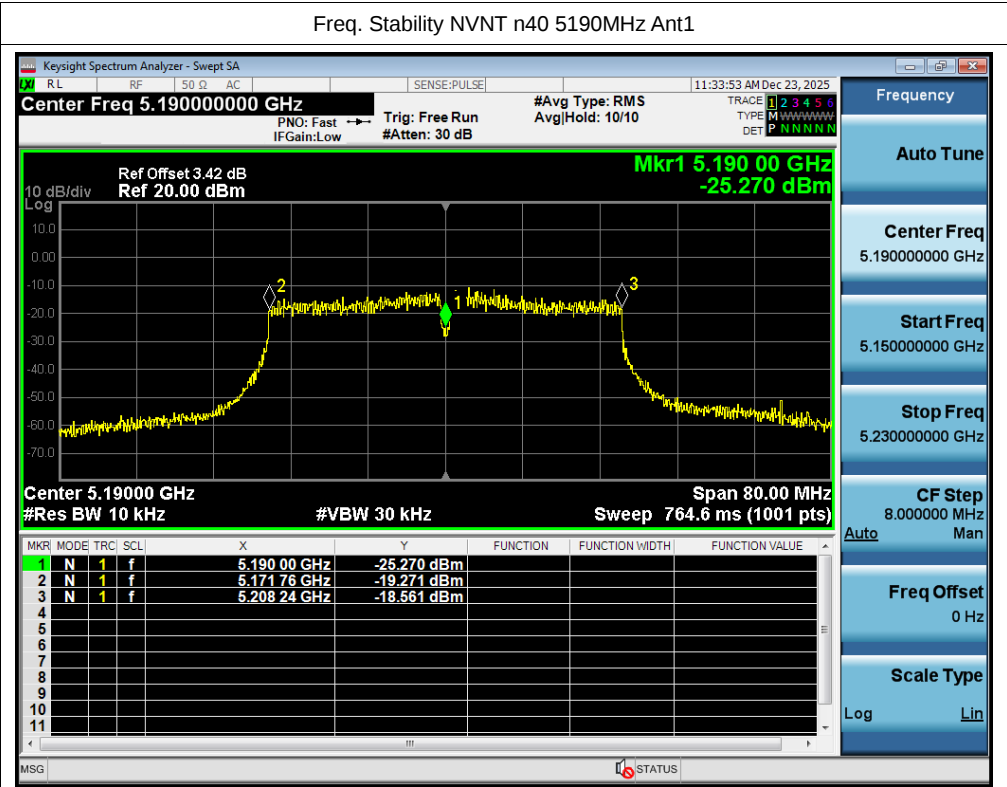
Freq. Stability NVNT n20 5180MHz Ant1

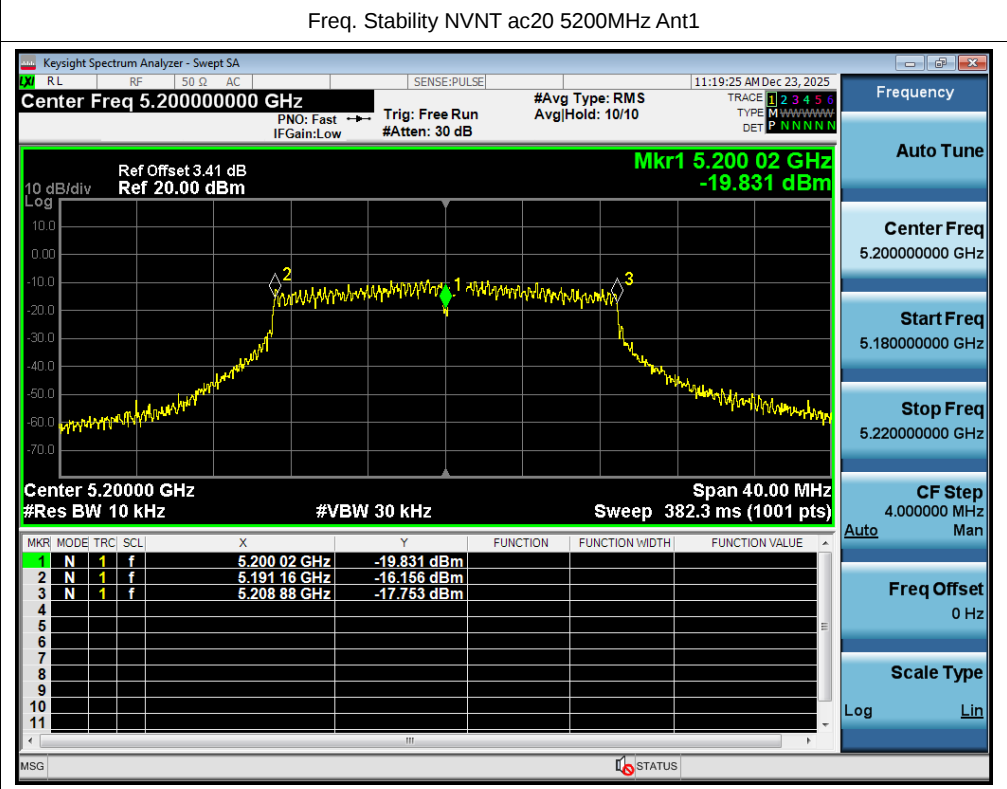
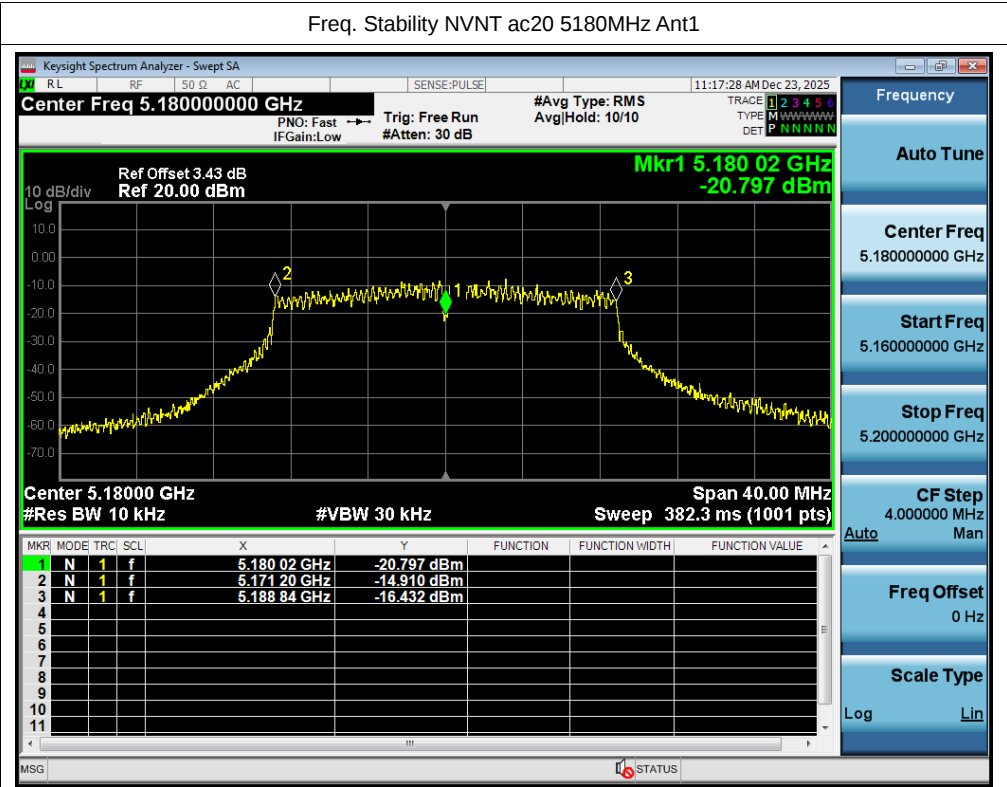


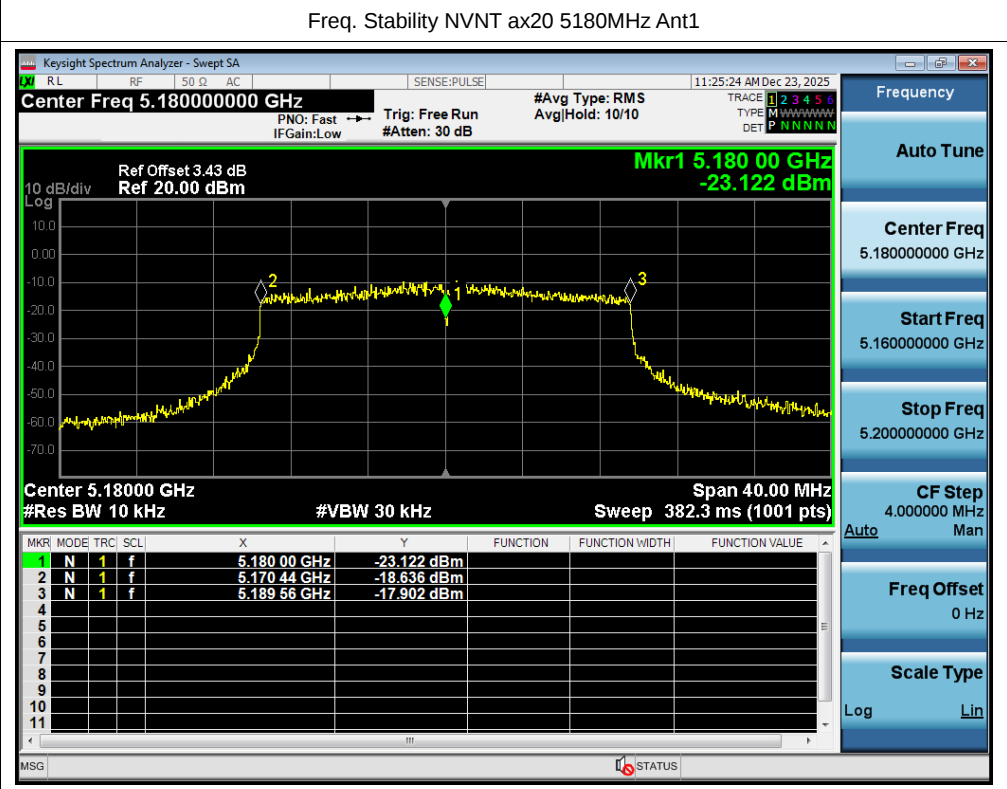
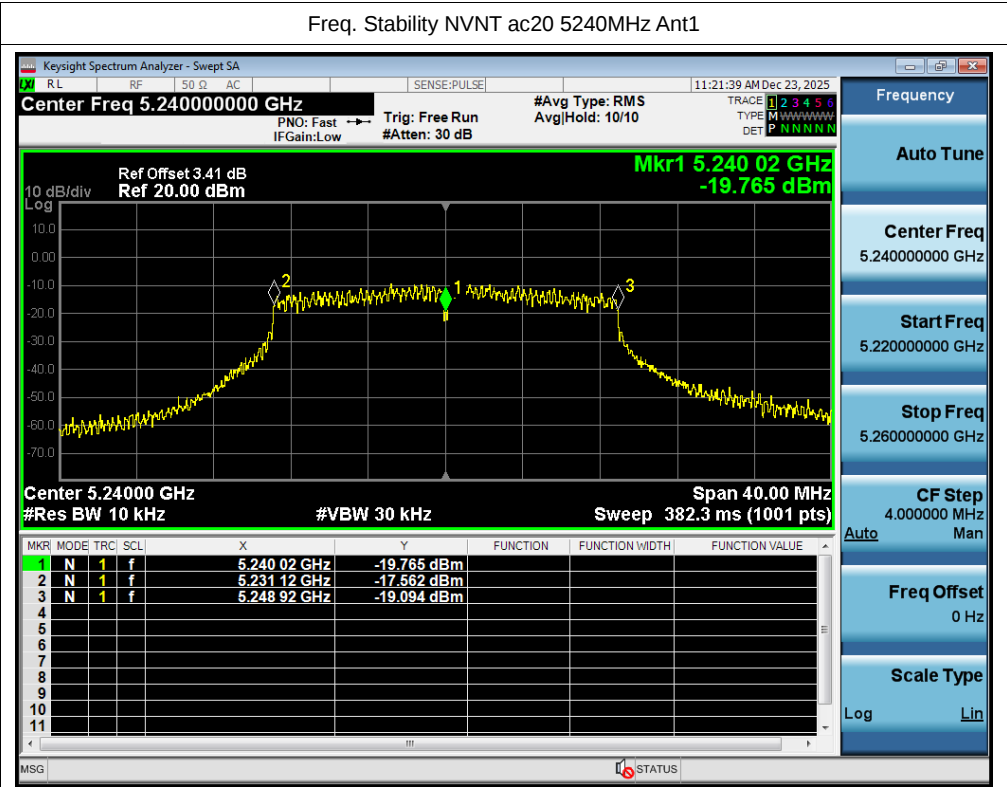


Freq. Stability NVNT n20 5240MHz Ant1

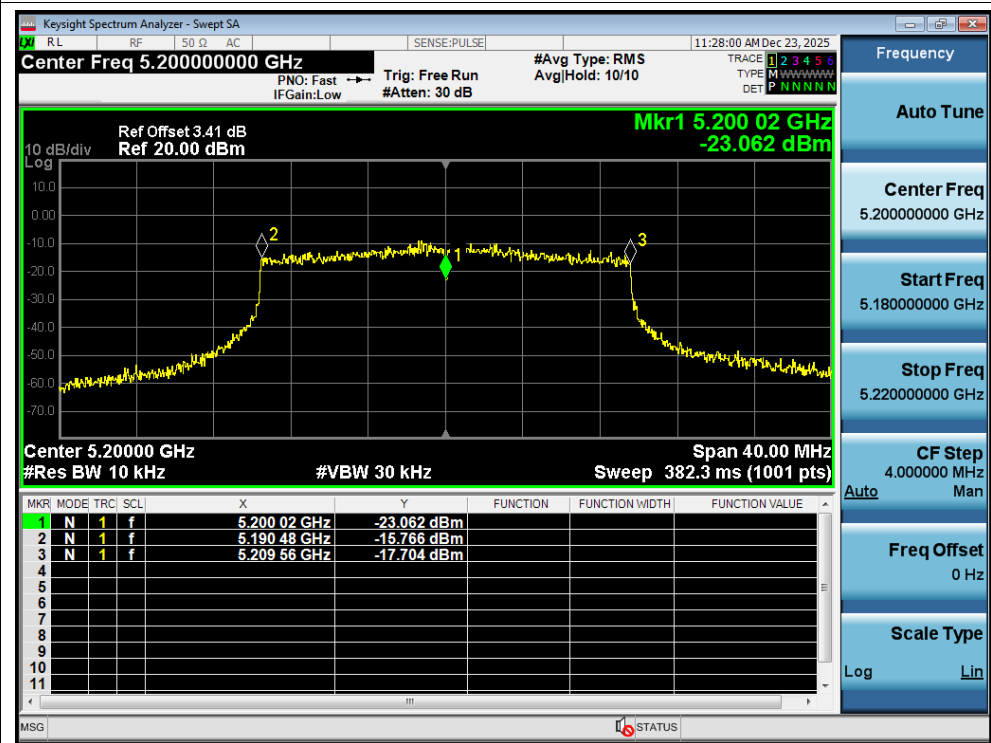




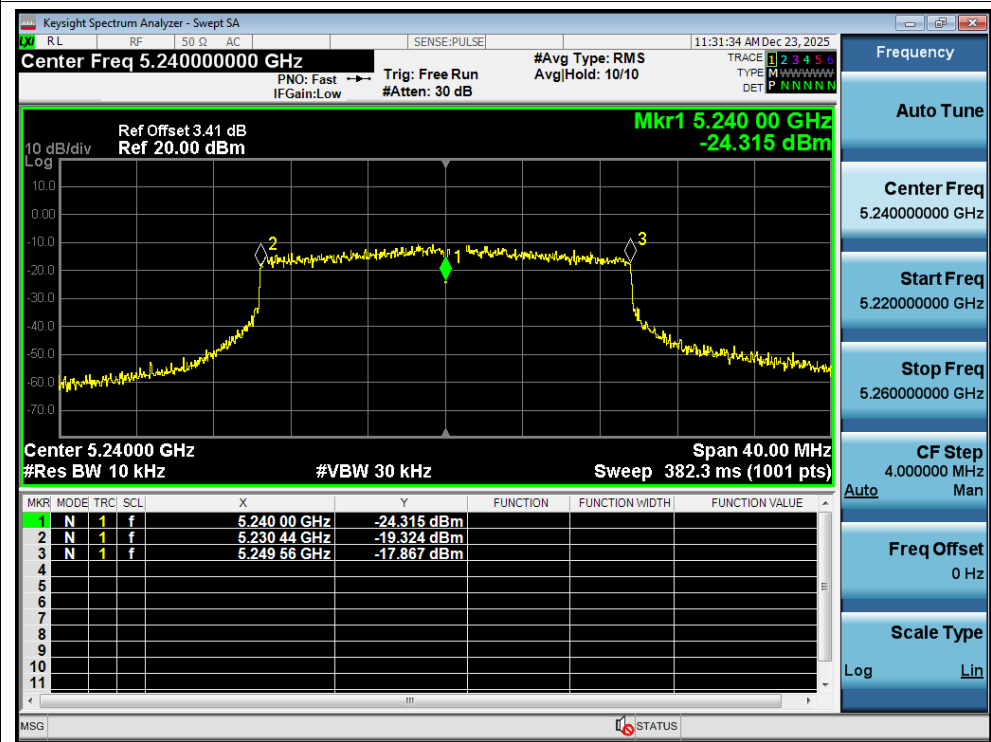




Freq. Stability NVNT ax20 5200MHz Ant1

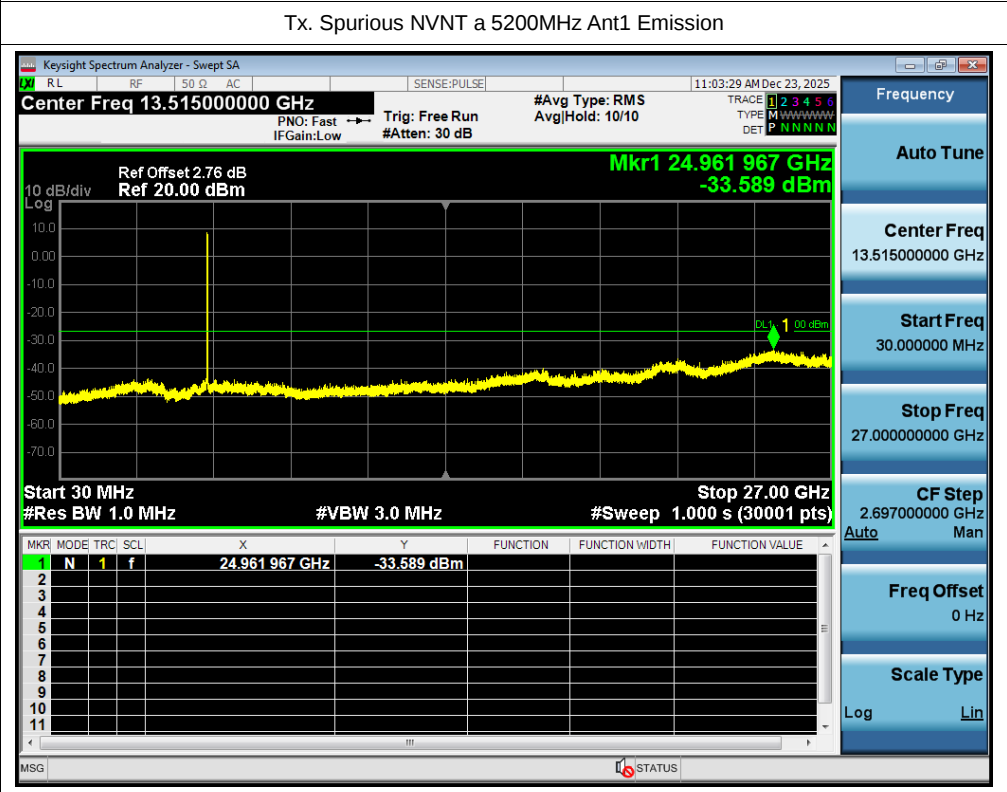
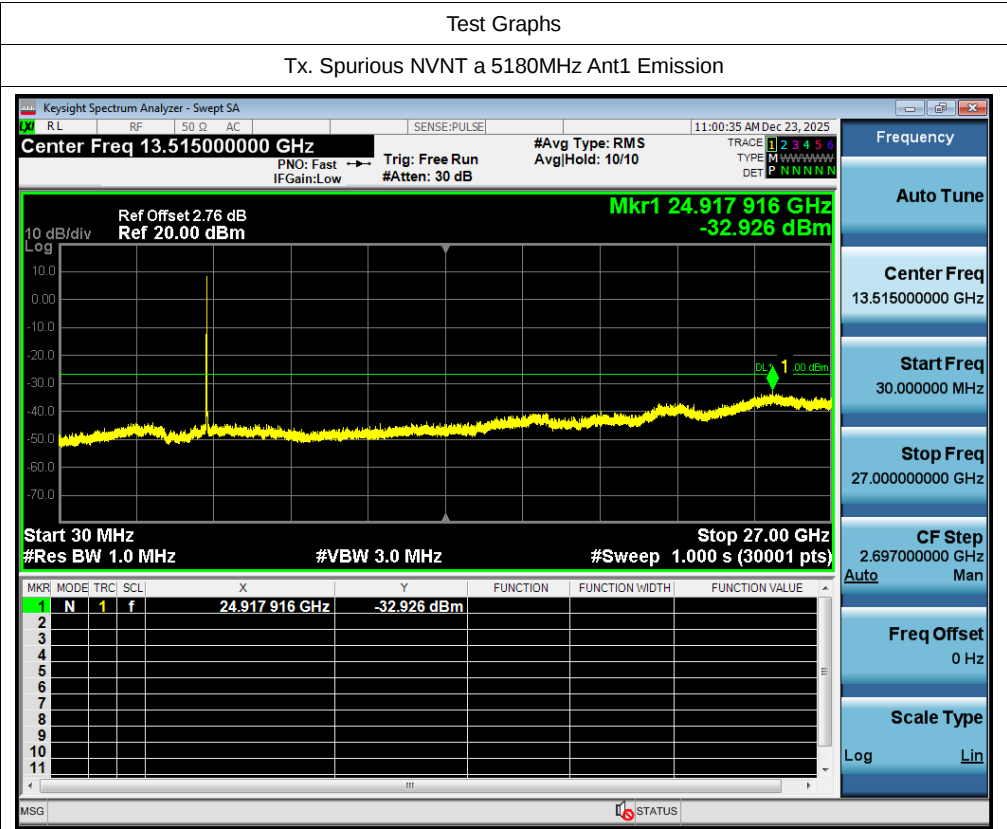


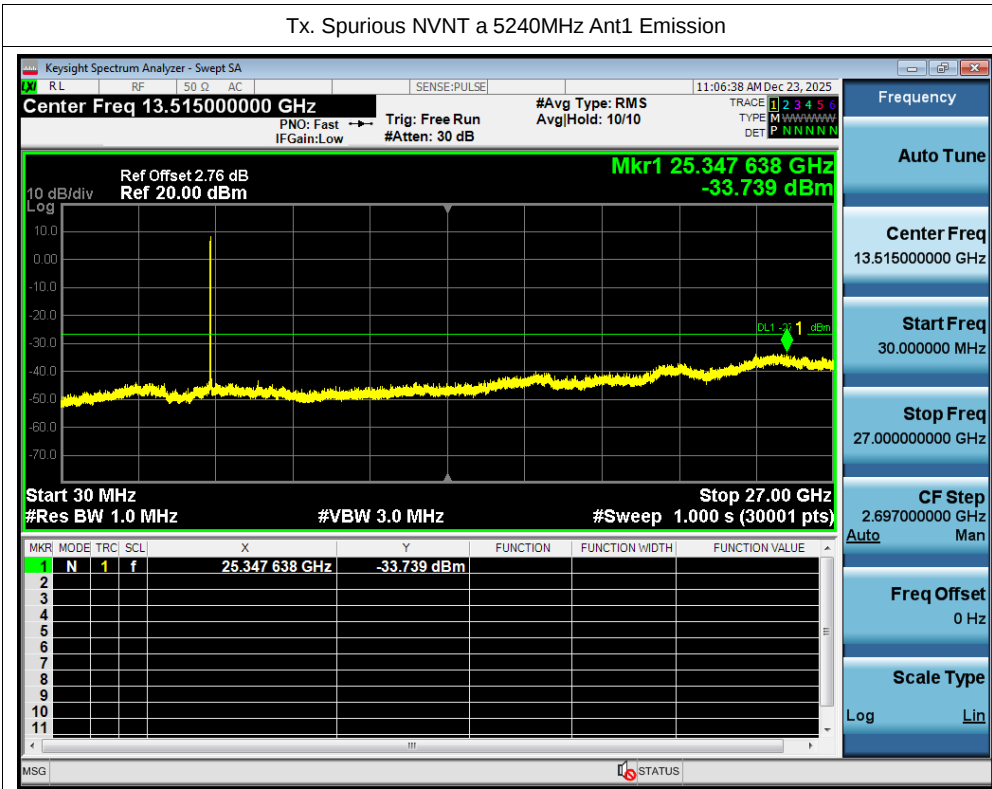
Freq. Stability NVNT ax20 5240MHz Ant1



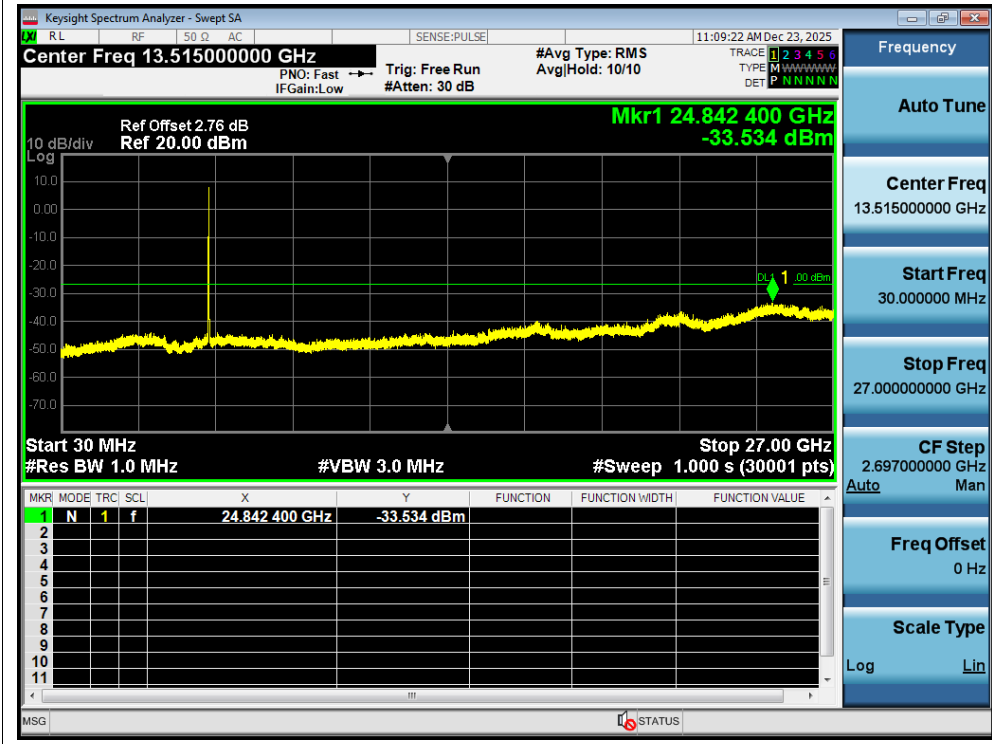
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-32.92	-27	Pass
NVNT	a	5200	Ant1	-33.58	-27	Pass
NVNT	a	5240	Ant1	-33.73	-27	Pass
NVNT	n20	5180	Ant1	-33.53	-27	Pass
NVNT	n20	5200	Ant1	-33.43	-27	Pass
NVNT	n20	5240	Ant1	-33.35	-27	Pass
NVNT	n40	5190	Ant1	-33.4	-27	Pass
NVNT	n40	5230	Ant1	-33.39	-27	Pass
NVNT	ac20	5180	Ant1	-33.45	-27	Pass
NVNT	ac20	5200	Ant1	-33.49	-27	Pass
NVNT	ac20	5240	Ant1	-33.23	-27	Pass
NVNT	ax20	5180	Ant1	-33.32	-27	Pass
NVNT	ax20	5200	Ant1	-33.39	-27	Pass
NVNT	ax20	5240	Ant1	-33.46	-27	Pass





Tx. Spurious NVNT n20 5180MHz Ant1 Emission



Tx. Spurious NVNT n20 5200MHz Ant1 Emission

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE 11:11:05 AM Dec 23, 2025

Center Freq 13.51500000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg Hold: 10/10 TRACE 1 2 3 4 5 6 TYPE M H A W A W A W P N N N N N N N

Ref Offset 2.76 dB Ref 20.00 dBm

Mkr1 24.948 482 GHz -33.431 dBm

10 dB/div Log

Start 30 MHz Stop 27.00 GHz #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 1.000 s (30001 pts)

DLY 1 00 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	24.948 482 GHz	-33.431 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
13.51500000 GHz

Start Freq
30.000000 MHz

Stop Freq
27.00000000 GHz

CF Step
2.697000000 GHz Man

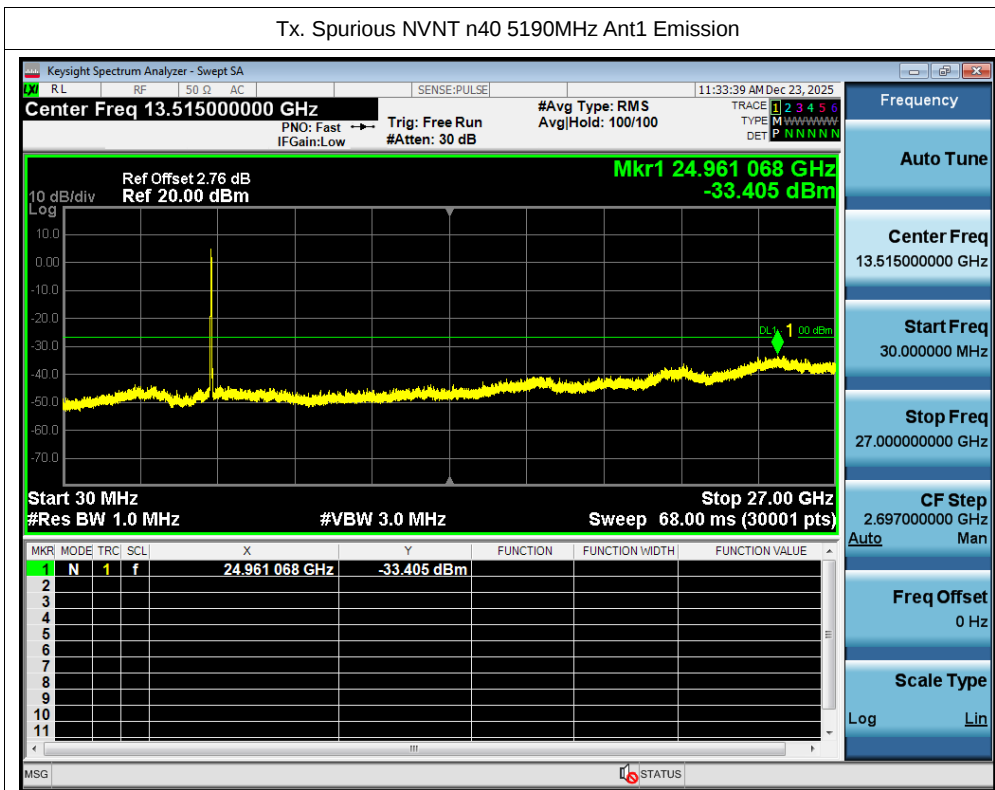
Auto

Freq Offset
0 Hz

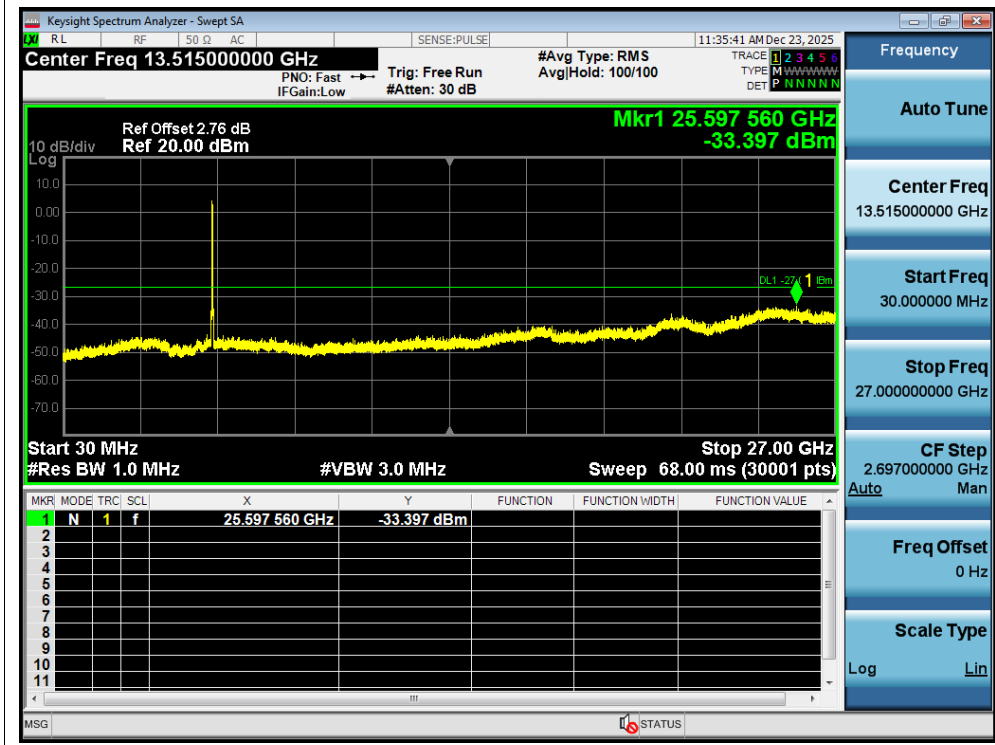
Scale Type
Log Lin

The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a spectrum with a significant peak at 25.191 GHz, labeled as Mkr1 25.191 212 GHz -33.350 dBm. The frequency range is from 30 MHz to 27.0 GHz. The resolution bandwidth (RBW) is 1.0 MHz, and the sweep time is 68.0 ms. The center frequency is set to 13.51500000 GHz. The plot also shows a noise floor around -50 dBm.

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	25.191 212 GHz	-33.350 dBm			



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



[illegible]

The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a frequency spectrum from 30 MHz to 27 GHz. A significant spurious emission peak is visible at 25.564297 GHz, labeled as Mkr1 25.564 297 GHz -33.493 dBm. The background noise floor is around -50 dBm.

Top Panel:

- Title: Tx. Spurious NVHT ac20 5200MHz Ant1 Emission
- Keysight Spectrum Analyzer - Swept SA
- Filters: RL, RF, 50 Ω, AC
- Sense: PULSE
- Date/Time: 11:19:15 AM Dec 23, 2025
- Center Freq: 13.51500000 GHz
- PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB
- #Avg Type: RMS Avg/Hold: 100/100
- TRACE 1 2 3 4 5 6 TYPE WWWWWW DET NNNNNN

Middle Panel:

- Ref Offset: 2.76 dB Ref: 20.00 dBm
- Scale: 10 dB/div Log
- Mkr1 25.564 297 GHz -33.493 dBm
- DL1-297 1 dBm

Bottom Panel:

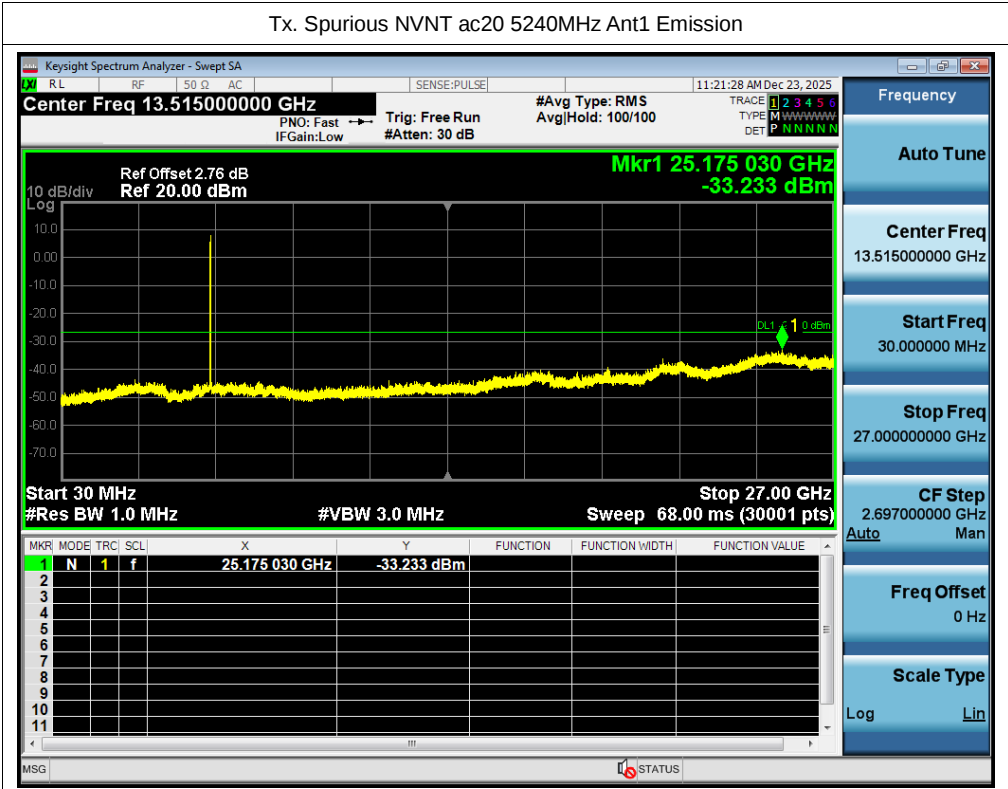
- Start 30 MHz Stop 27.00 GHz
- #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 68.00 ms (30001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	f	25.564 297 GHz	-33.493 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Right Panel Controls:

- Frequency
- Auto Tune
- Center Freq: 13.51500000 GHz
- Start Freq: 30.000000 MHz
- Stop Freq: 27.00000000 GHz
- CF Step: 2.697000000 GHz Man
- Freq Offset: 0 Hz
- Scale Type: Log Lin

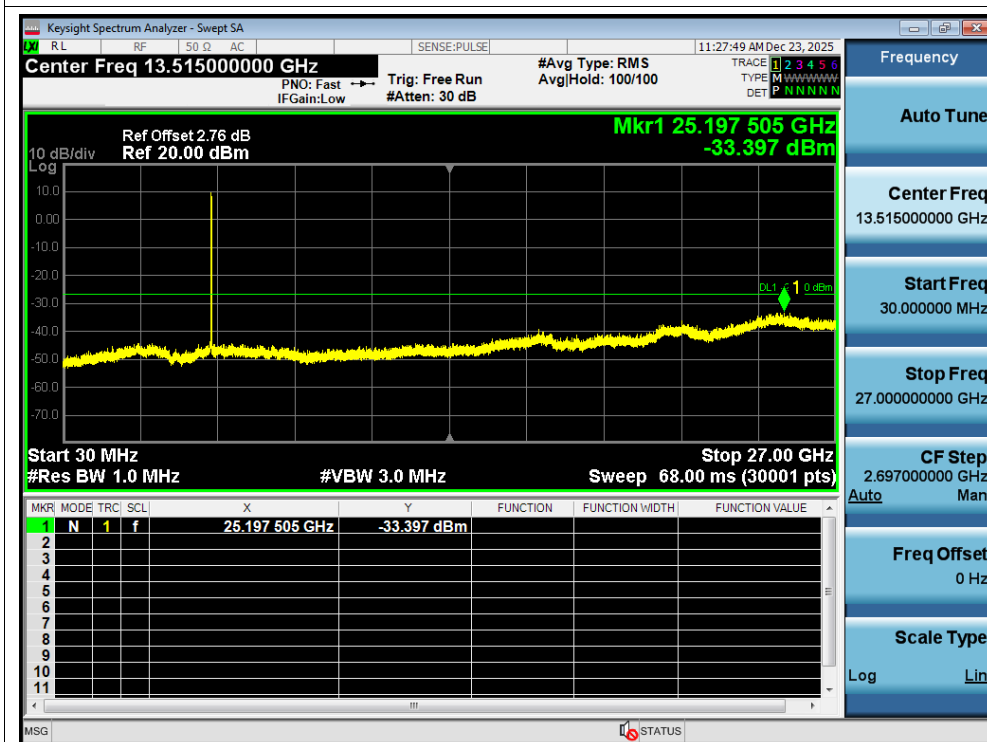
Status Bar: MSG STATUS



Tx. Spurious NVNT ax20 5180MHz Ant1 Emission



Tx. Spurious NVNT ax20 5200MHz Ant1 Emission



Tx. Spurious NVNT ax20 5240MHz Ant1 Emission

