

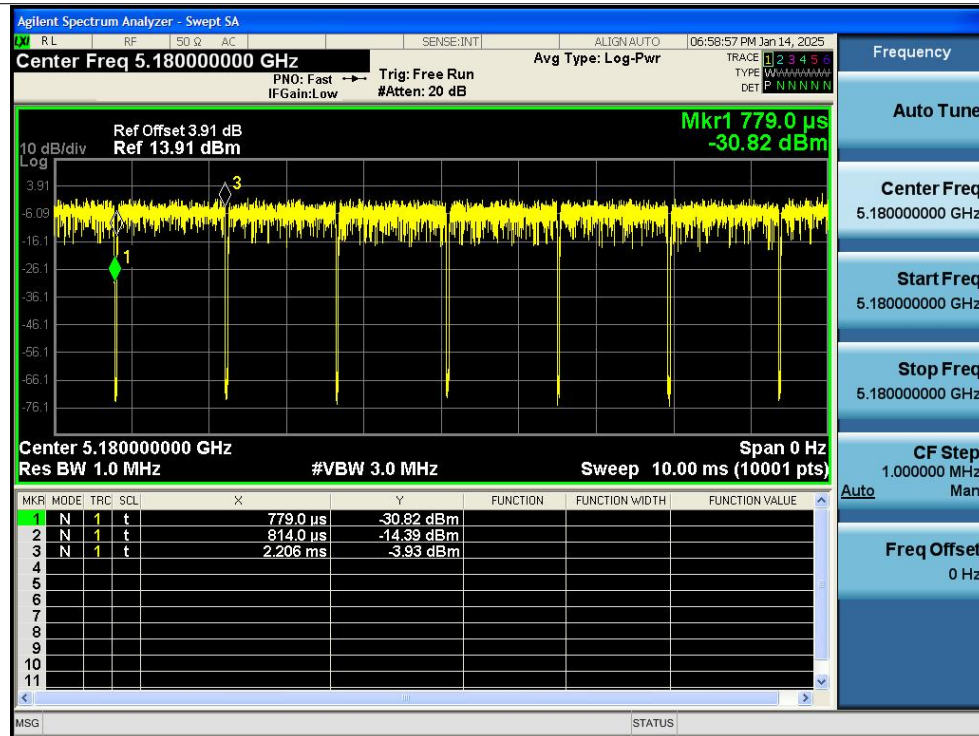
Appendix A

Duty Cycle

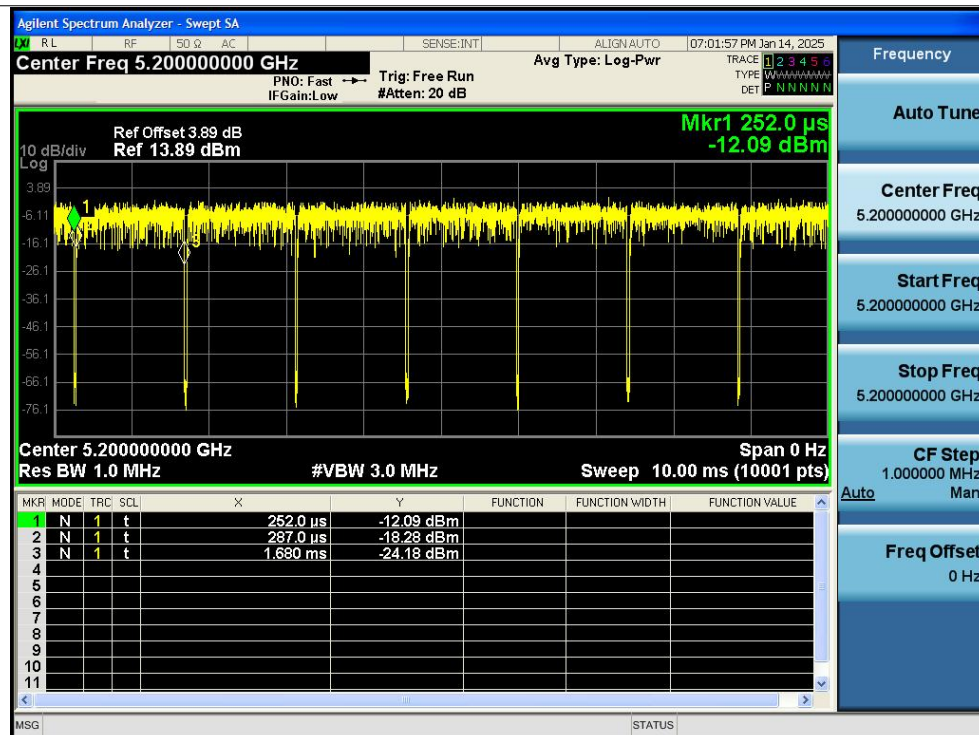
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.55	0.11	0.72
NVNT	a	5200	Ant1	97.55	0.11	0.72
NVNT	a	5240	Ant1	97.55	0.11	0.72
NVNT	a	5745	Ant1	97.48	0.11	0.72
NVNT	a	5785	Ant1	97.55	0.11	0.72
NVNT	a	5825	Ant1	97.55	0.11	0.72
NVNT	n20	5180	Ant1	100	0	0
NVNT	n20	5200	Ant1	100	0	0
NVNT	n20	5240	Ant1	100	0	0
NVNT	n20	5745	Ant1	100	0	0
NVNT	n20	5785	Ant1	100	0	0
NVNT	n20	5825	Ant1	100	0	0
NVNT	n40	5190	Ant1	100	0	0
NVNT	n40	5230	Ant1	100	0	0
NVNT	n40	5755	Ant1	100	0	0
NVNT	n40	5795	Ant1	100	0	0
NVNT	ac20	5180	Ant1	100	0	0
NVNT	ac20	5200	Ant1	100	0	0
NVNT	ac20	5240	Ant1	100	0	0
NVNT	ac20	5745	Ant1	100	0	0
NVNT	ac20	5785	Ant1	100	0	0
NVNT	ac20	5825	Ant1	100	0	0
NVNT	ac40	5190	Ant1	100	0	0
NVNT	ac40	5230	Ant1	100	0	0
NVNT	ac40	5755	Ant1	100	0	0
NVNT	ac40	5795	Ant1	100	0	0
NVNT	ac80	5210	Ant1	100	0	0
NVNT	ac80	5775	Ant1	100	0	0

Test Graphs

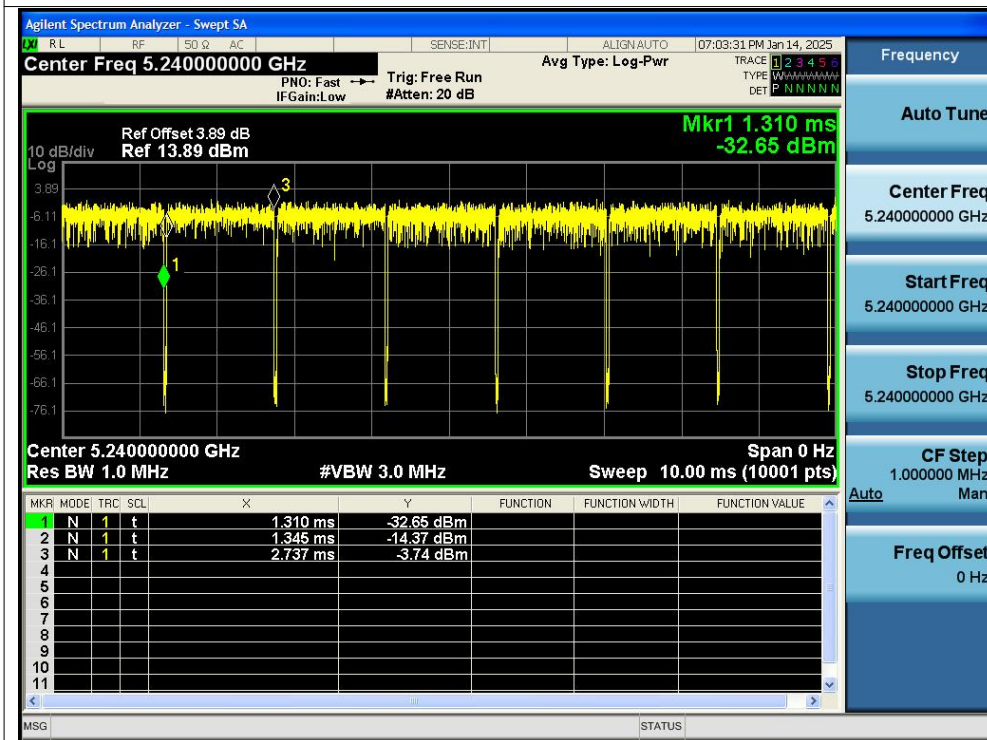
Duty Cycle NVNT a 5180MHz Ant1



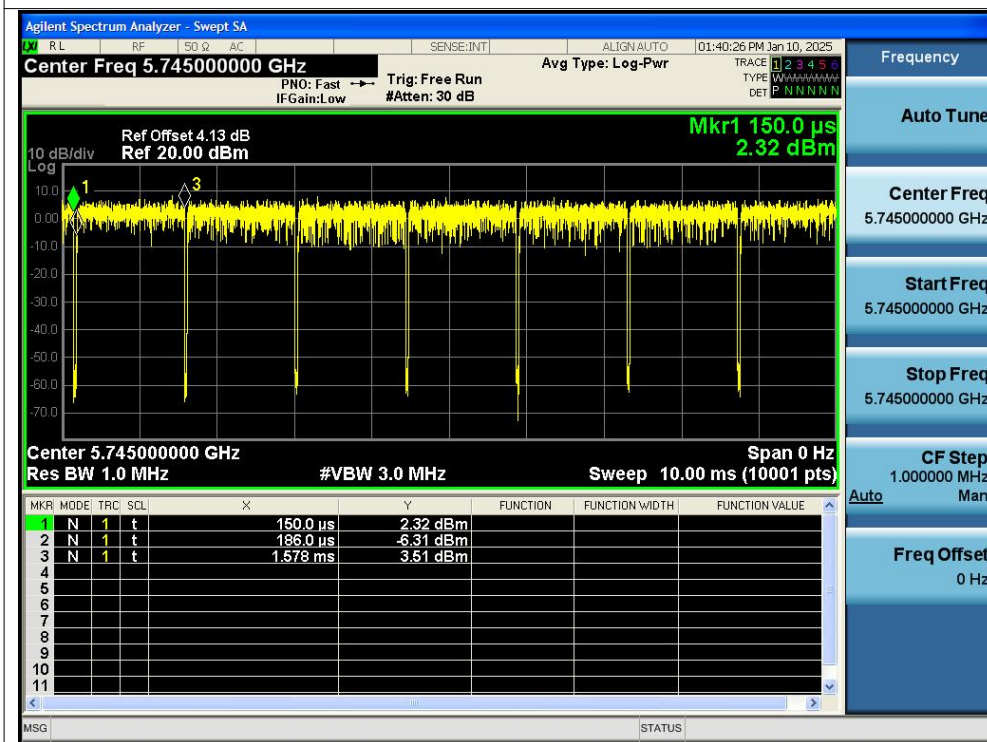
Duty Cycle NVNT a 5200MHz Ant1



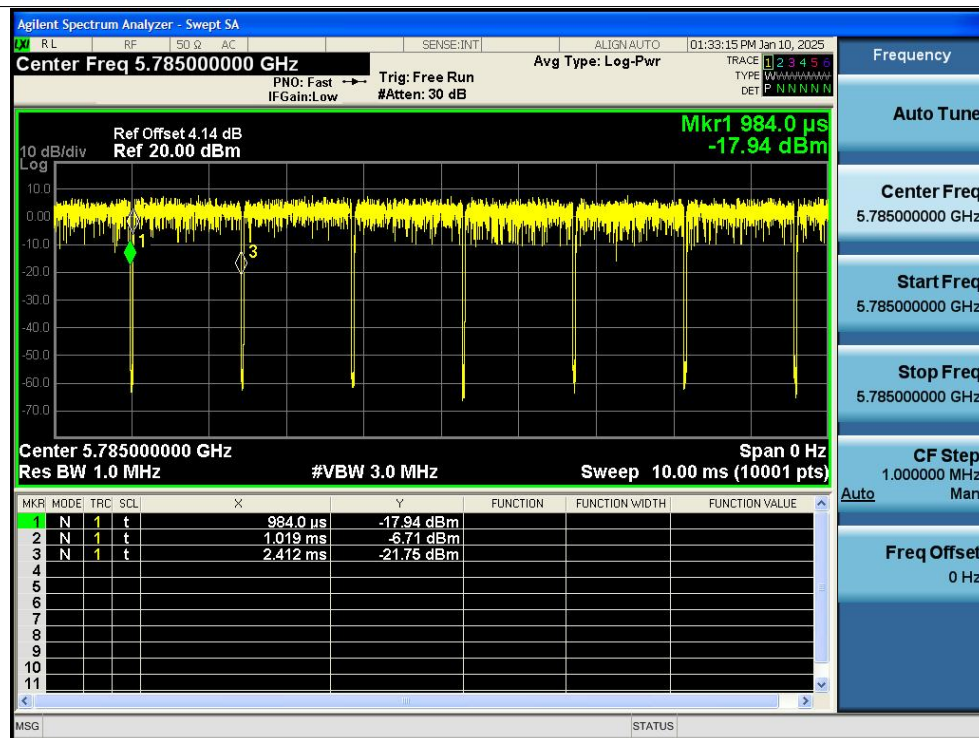
Duty Cycle NVNT a 5240MHz Ant1



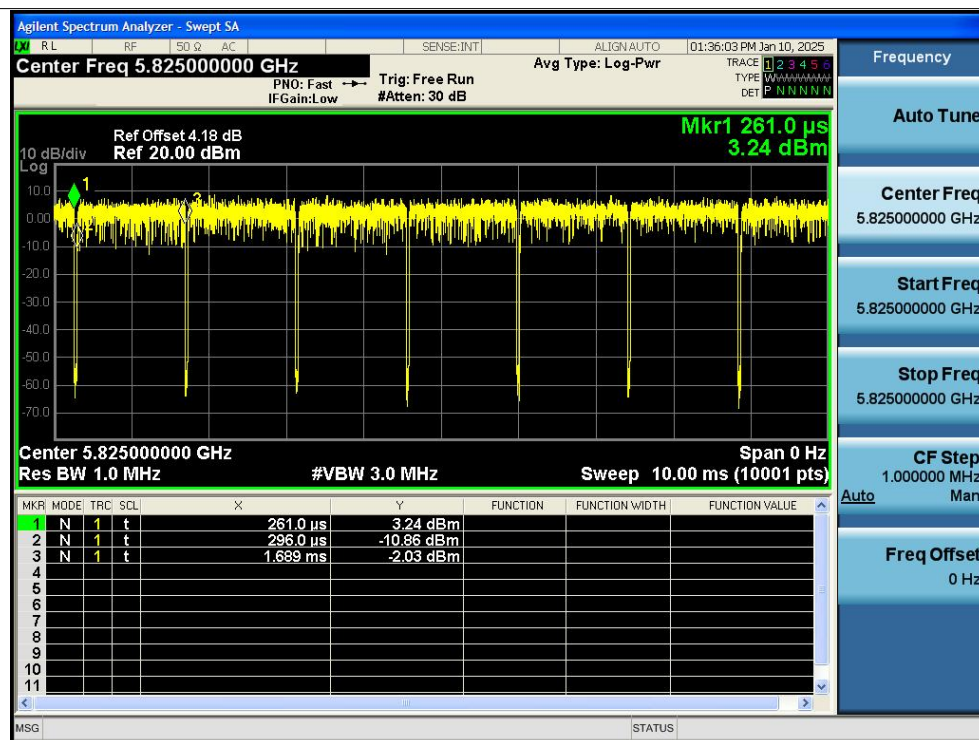
Duty Cycle NVNT a 5745MHz Ant1



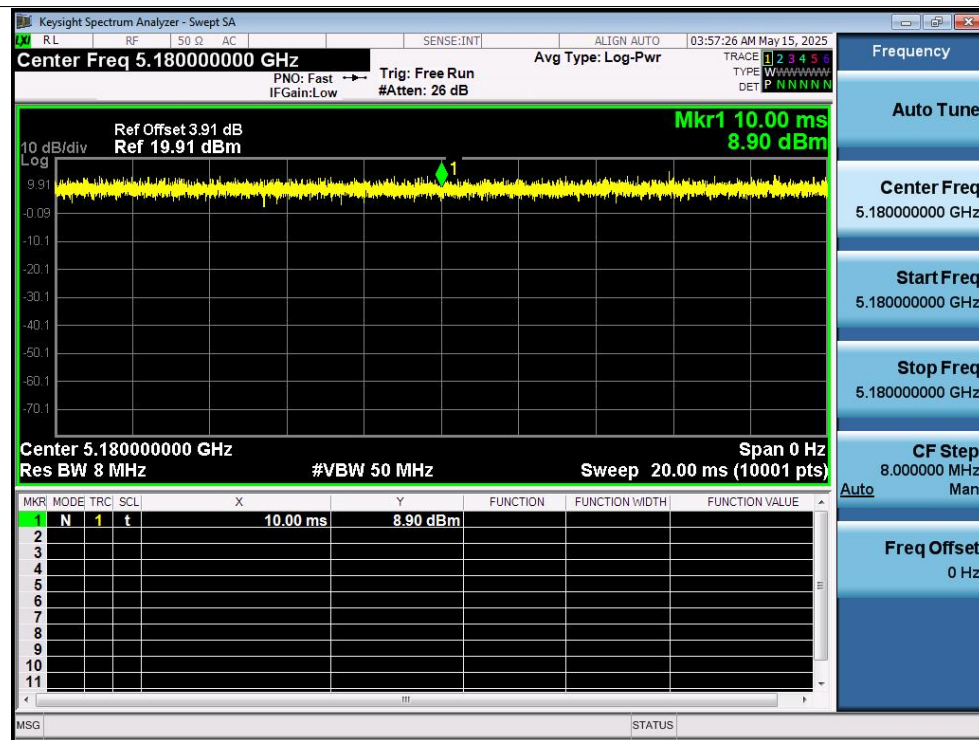
Duty Cycle NVNT a 5785MHz Ant1



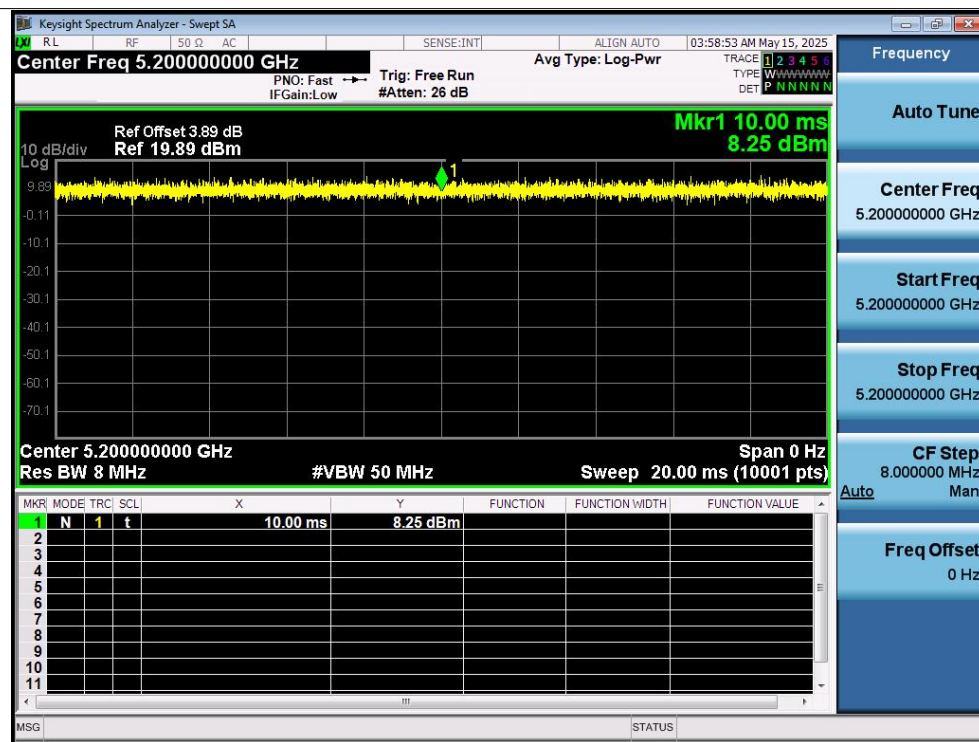
Duty Cycle NVNT a 5825MHz Ant1



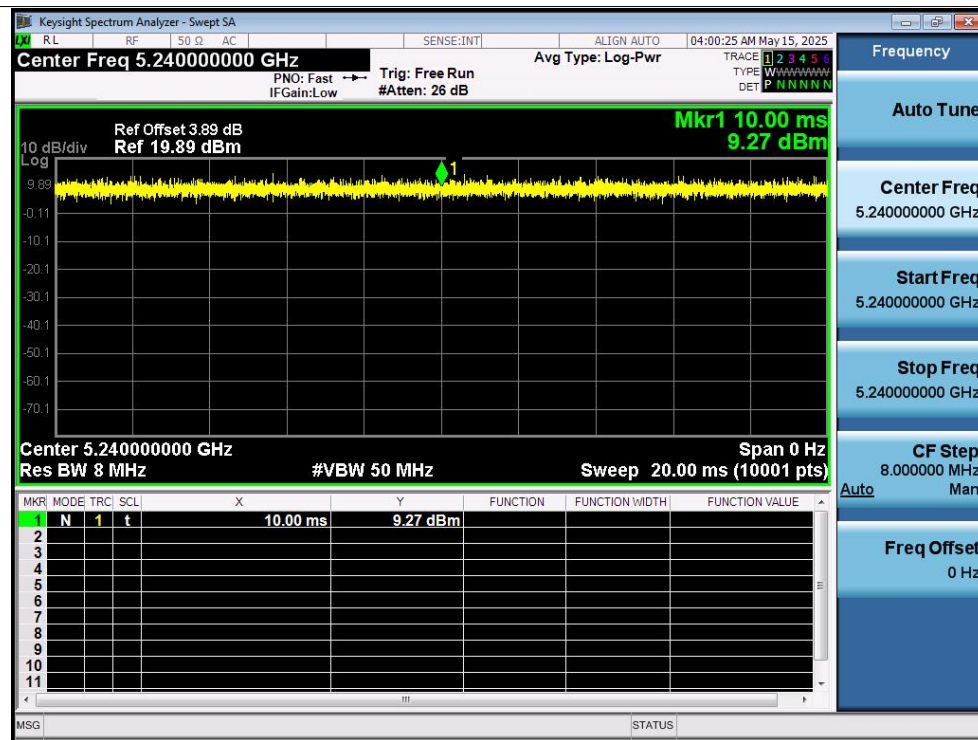
Duty Cycle NVNT n20 5180MHz Ant1



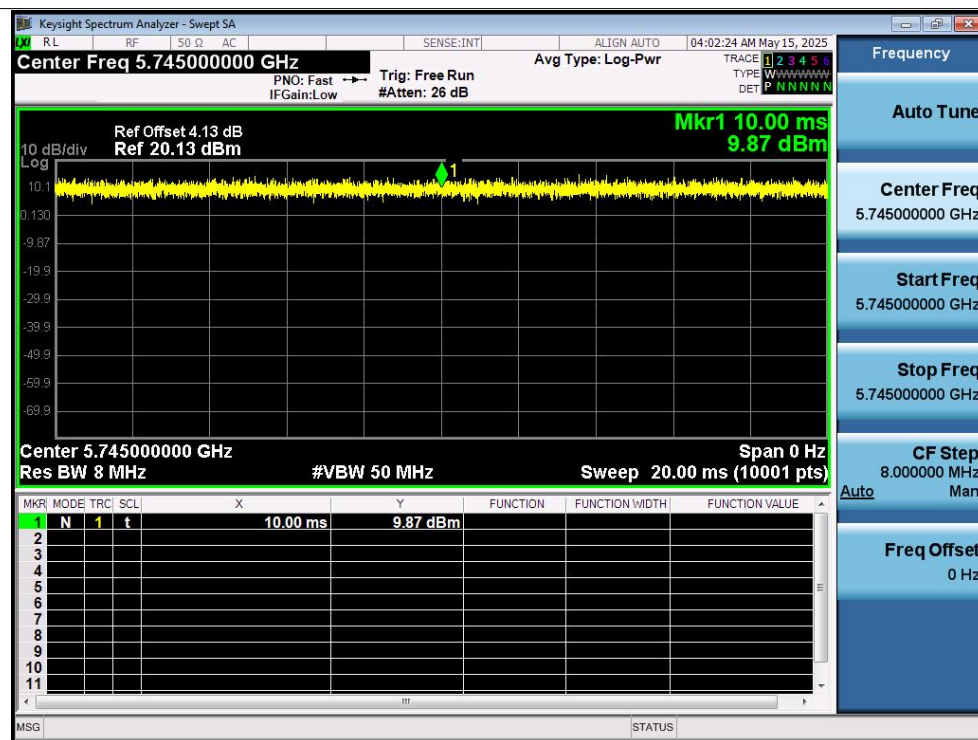
Duty Cycle NVNT n20 5200MHz Ant1



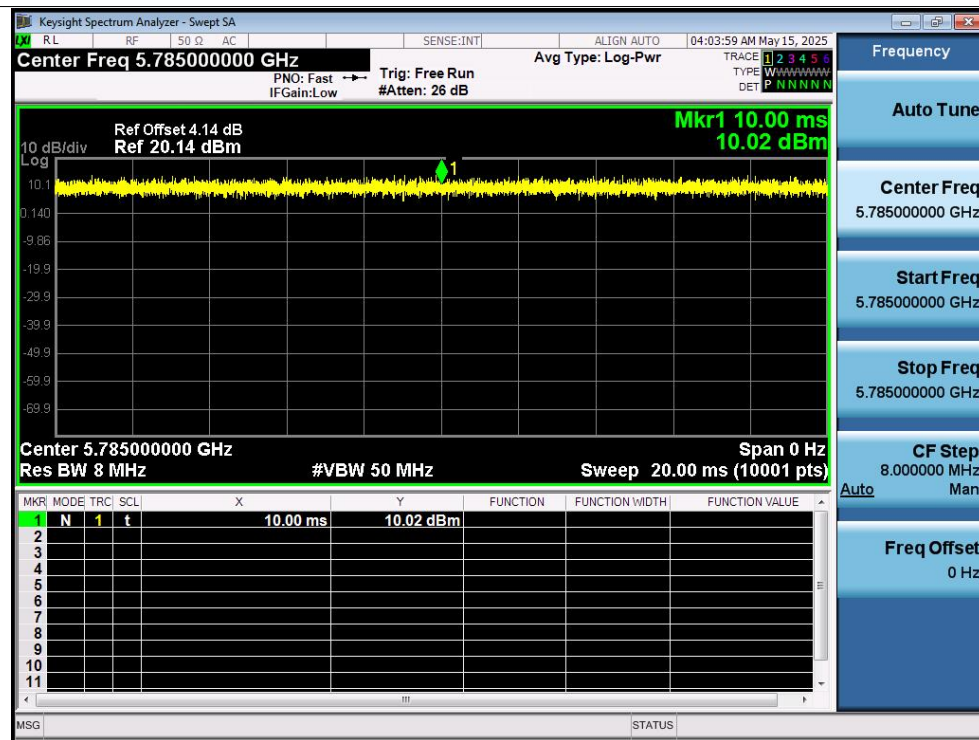
Duty Cycle NVNT n20 5240MHz Ant1



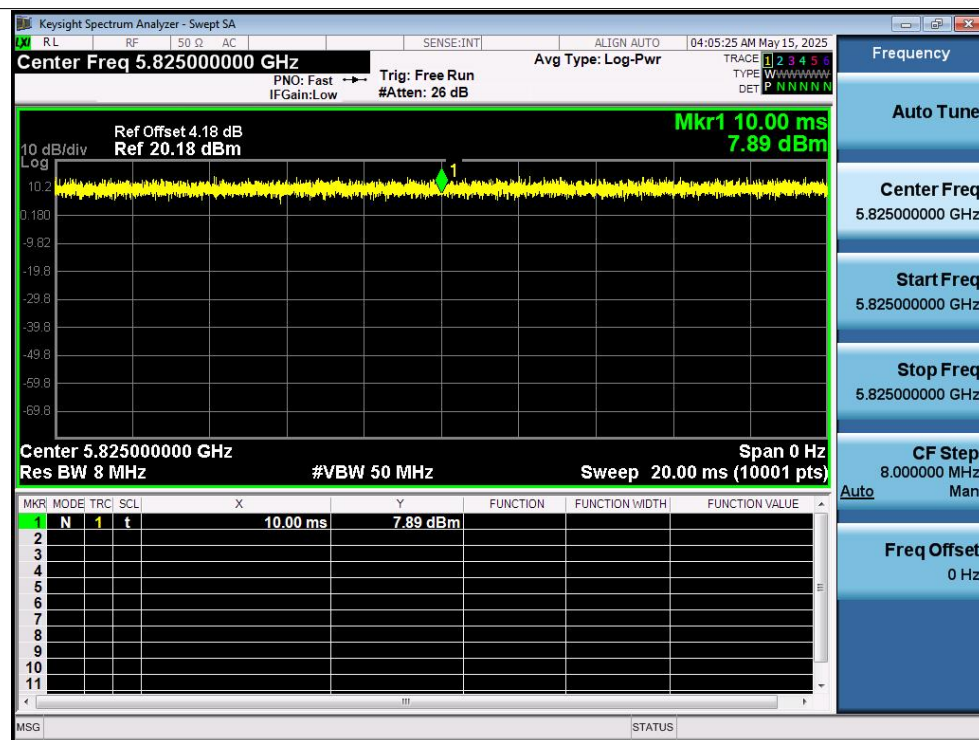
Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1

The screenshot displays a Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a peak marker labeled '1' at 10.00 ms and 5.65 dBm. The plot is titled 'Center Freq 5.190000000 GHz' and 'Ref 19.91 dBm'. The y-axis is labeled '10 dB/div Log' and ranges from -70.1 to -9.91. The x-axis is labeled 'Mkr 10.00 ms' and '5.65 dBm'. The plot shows a signal with a peak at 10.00 ms and 5.65 dBm.

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:06:58 AM May 15, 2025

Center Freq 5.190000000 GHz Avg Type: Log-Pwr

PN0: Fast Trig: Free Run
IFGain:Low #Atten: 26 dB

TRACE 1 2 3 4 5
TYPE WWWWWWWW
DET P NNNNN

Ref Offset 3.91 dB
Ref 19.91 dBm

10 dB/div
Log

Mkr1 10.00 ms
5.65 dBm

Center 5.190000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 20.00 ms (10001 pts)

Mkr	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	10.00 ms	5.65 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
5.190000000 GHz

Start Freq
5.190000000 GHz

Stop Freq
5.190000000 GHz

CF Step
8.000000 MHz
Man

Freq Offset
0 Hz

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:10:02 AM May 15, 2025

Center Freq 5.230000000 GHz Avg Type: Log-Pwr

PN0: Fast → Trig: Free Run
IFGain:Low #Atten: 26 dB

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N

Ref Offset 3.89 dB
Ref 19.89 dBm

**Mkr1 10.00 ms
3.93 dBm**

10 dB/div
Log

9.89
-0.11
-10.1
-20.1
-30.1
-40.1
-50.1
-60.1
-70.1

Center 5.230000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 50 MHz Sweep 20.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	10.00 ms	3.93 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune

Center Freq
5.230000000 GHz

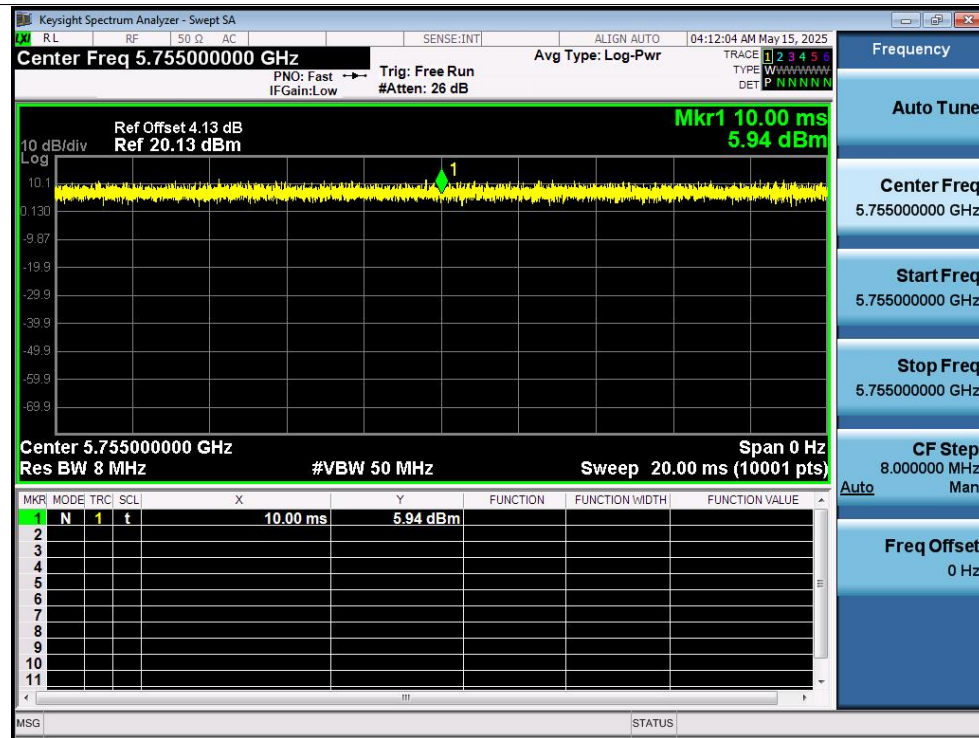
Start Freq
5.230000000 GHz

Stop Freq
5.230000000 GHz

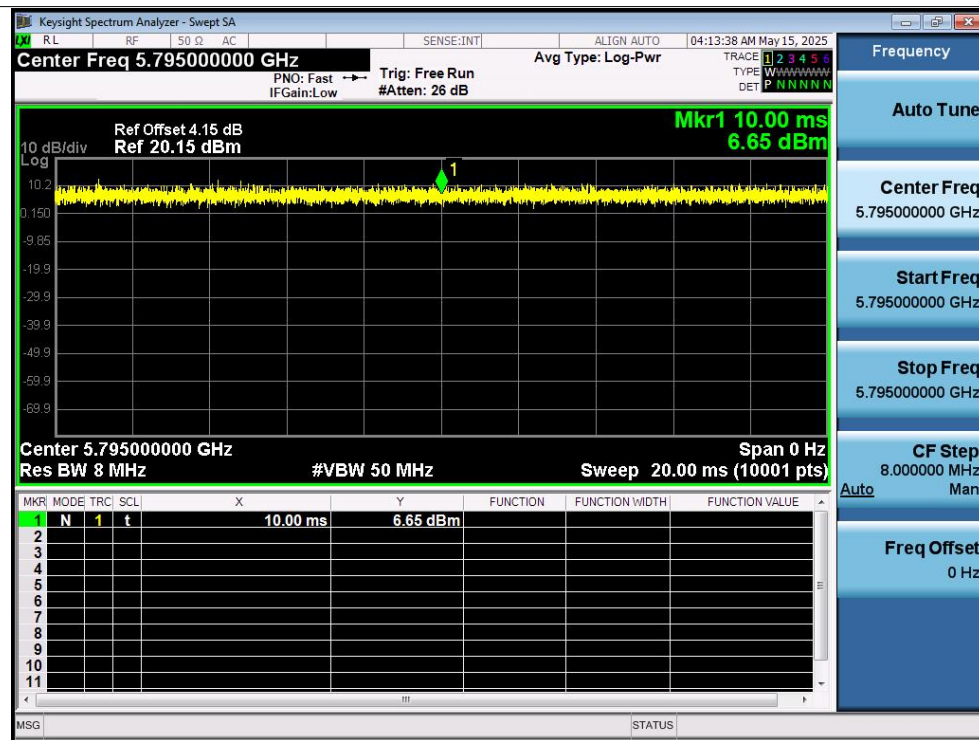
CF Step
8.000000 MHz
Auto Man

Freq Offset
0 Hz

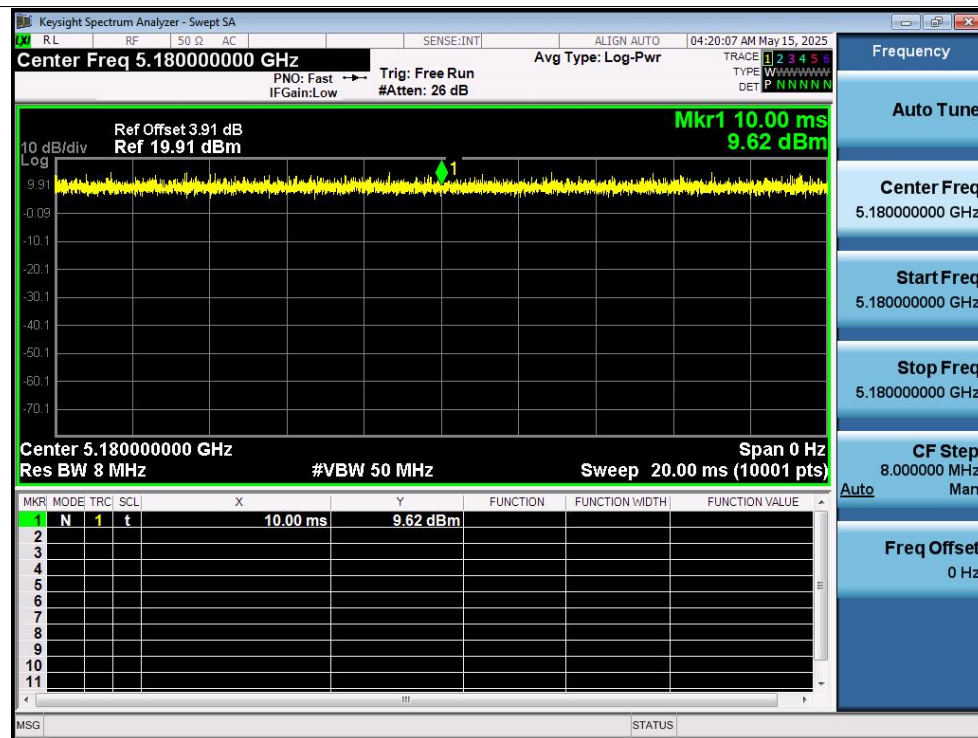
Duty Cycle NVNT n40 5755MHz Ant1



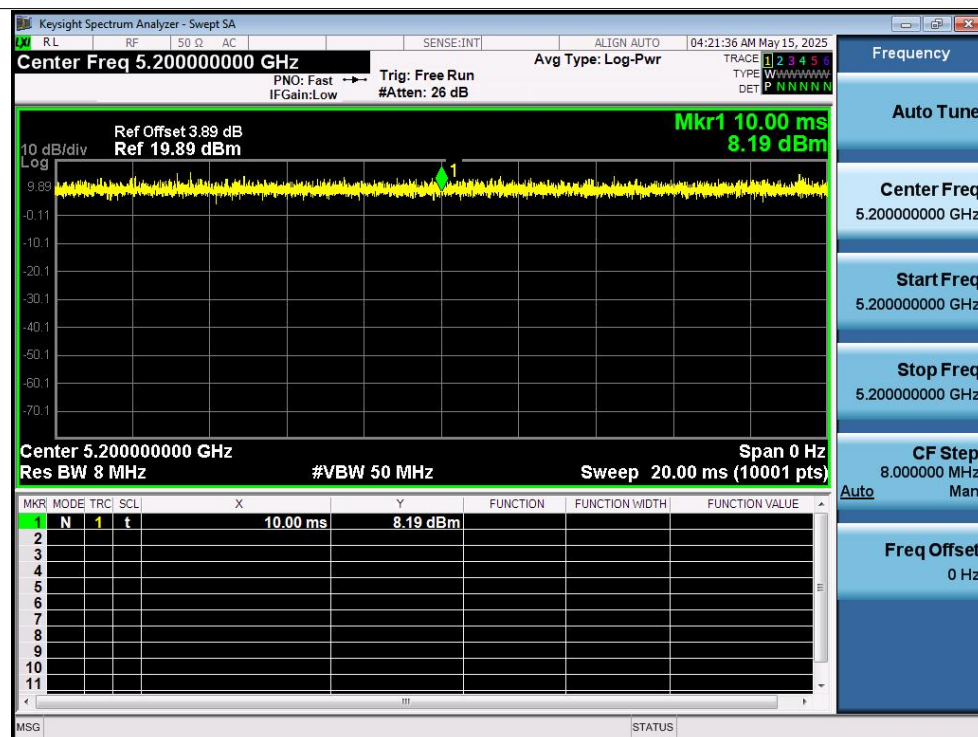
Duty Cycle NVNT n40 5795MHz Ant1



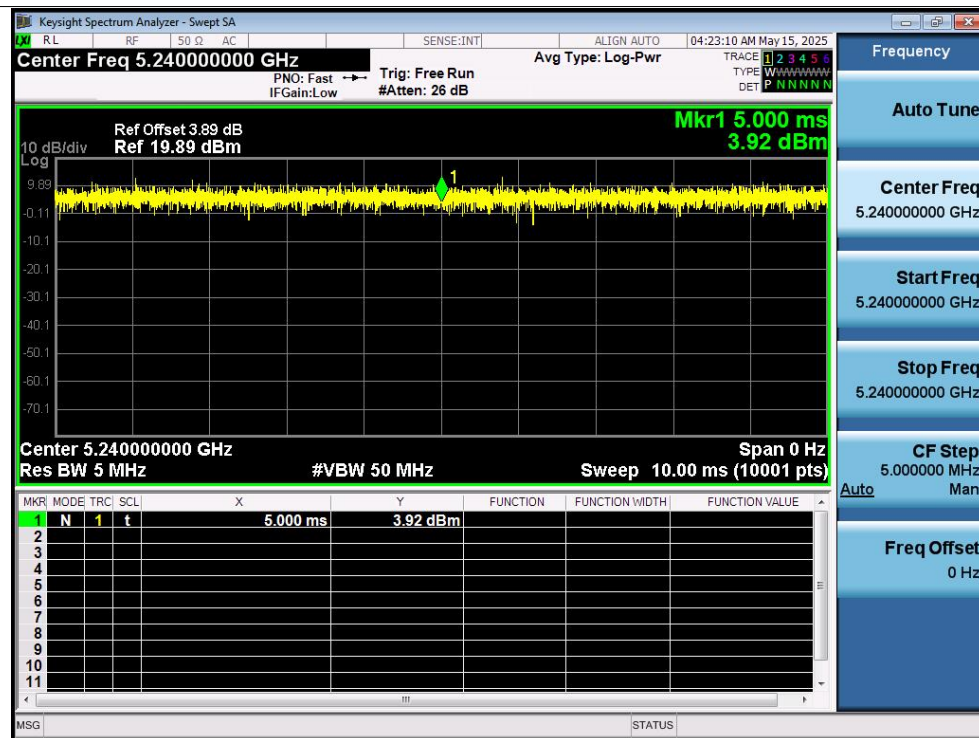
Duty Cycle NVNT ac20 5180MHz Ant1



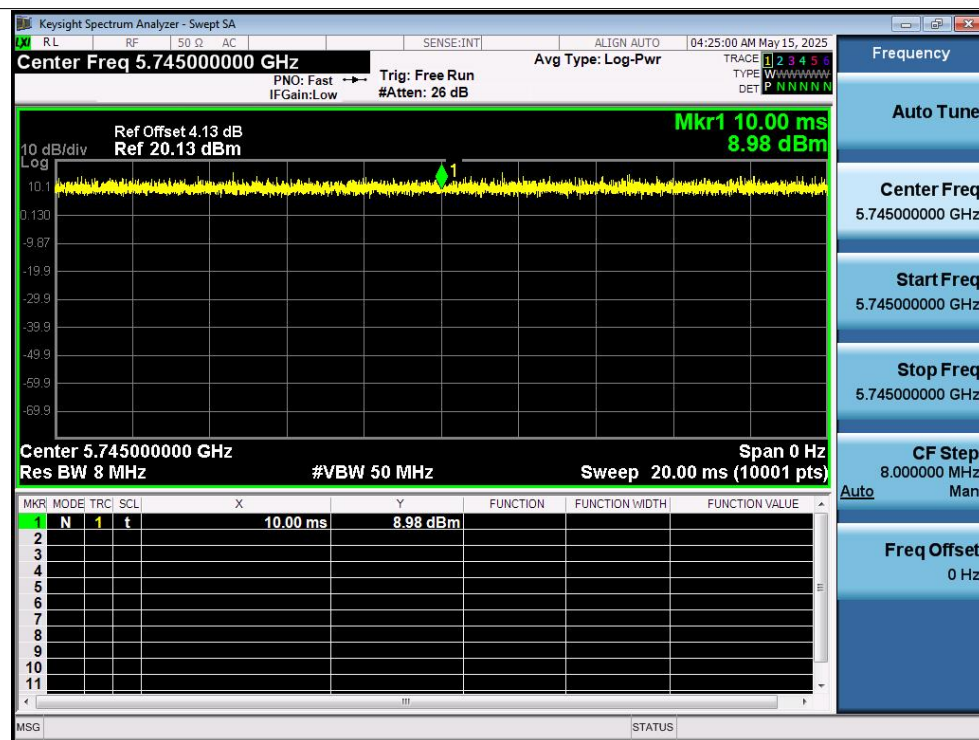
Duty Cycle NVNT ac20 5200MHz Ant1



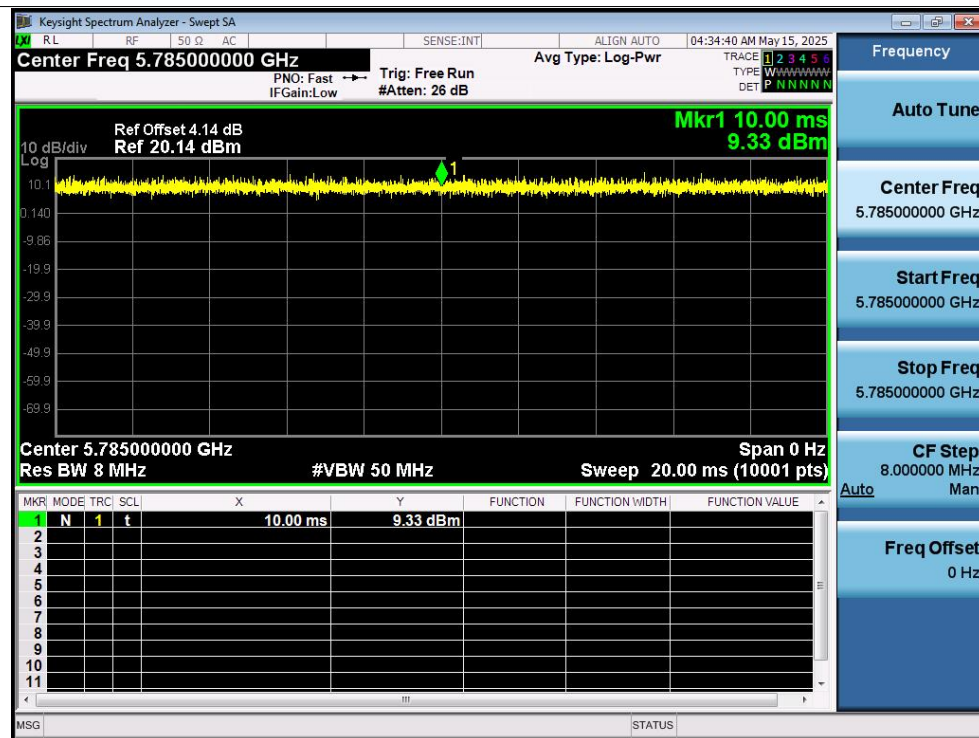
Duty Cycle NVNT ac20 5240MHz Ant1



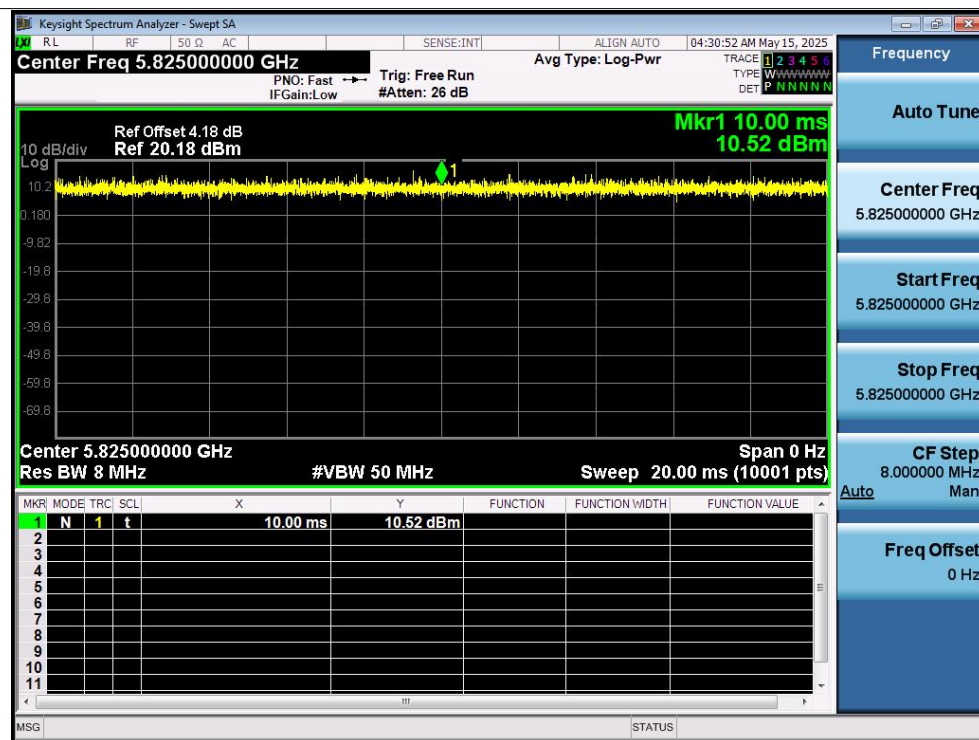
Duty Cycle NVNT ac20 5745MHz Ant1



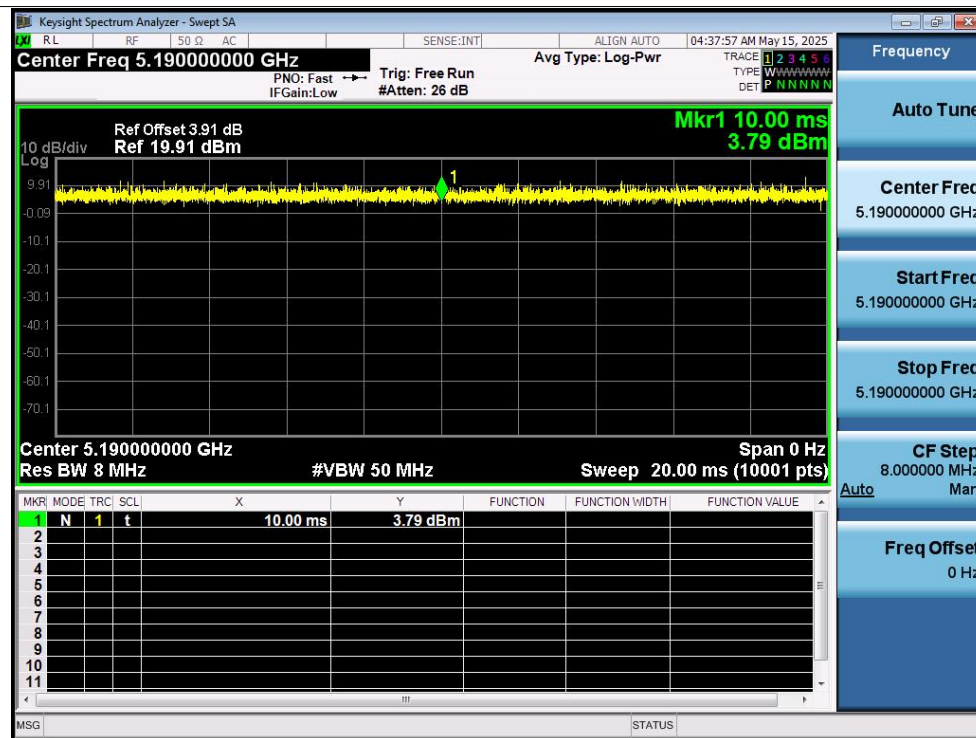
Duty Cycle NVNT ac20 5785MHz Ant1



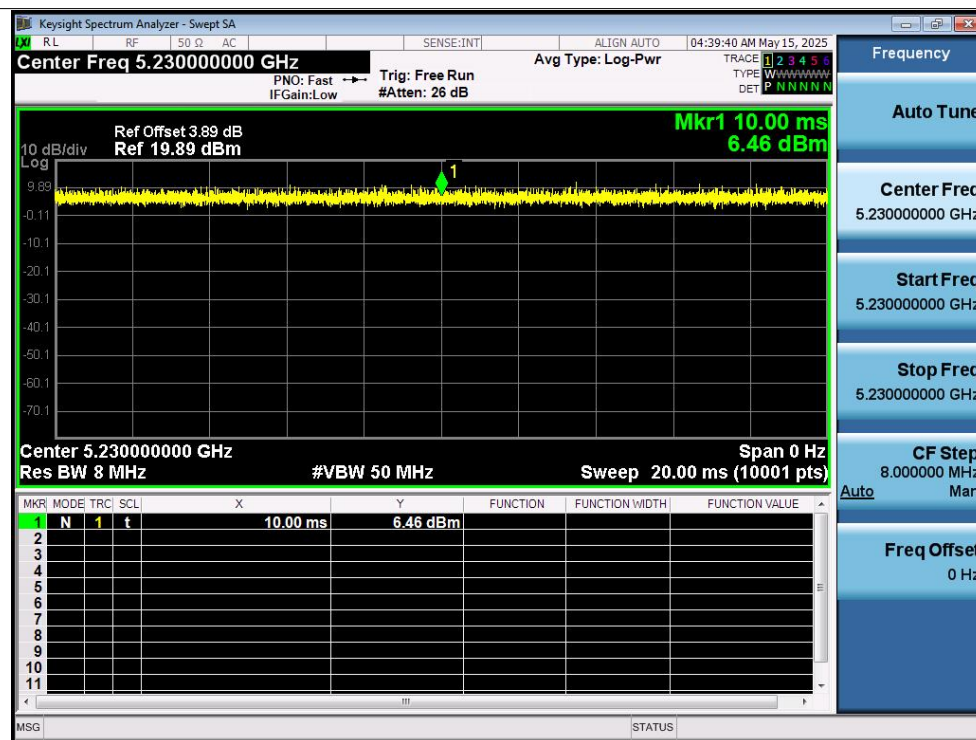
Duty Cycle NVNT ac20 5825MHz Ant1



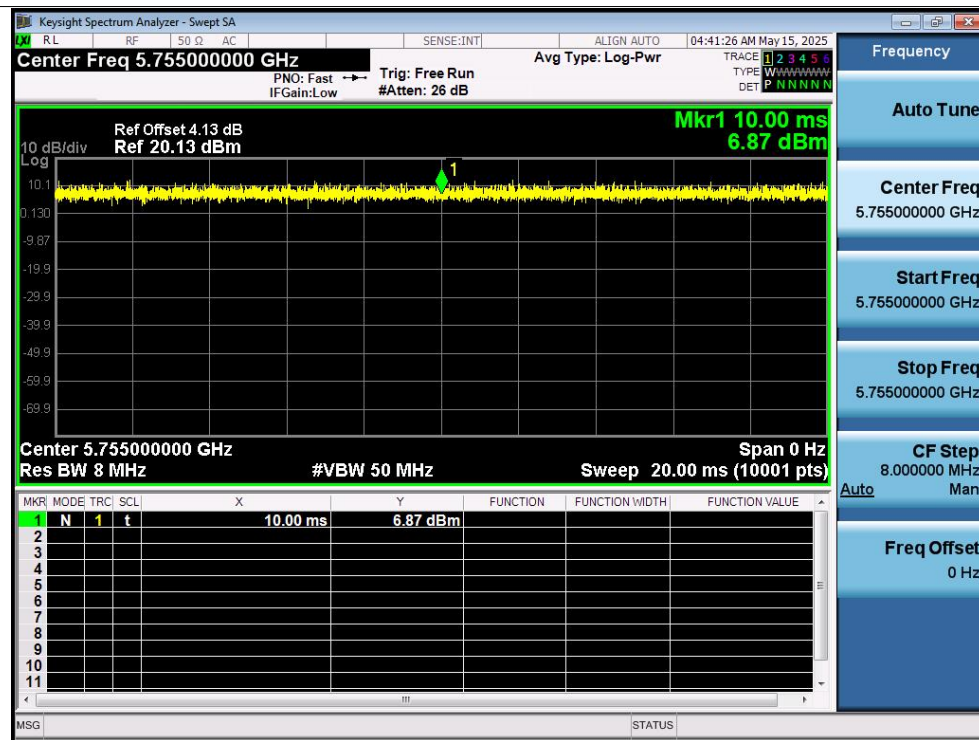
Duty Cycle NVNT ac40 5190MHz Ant1



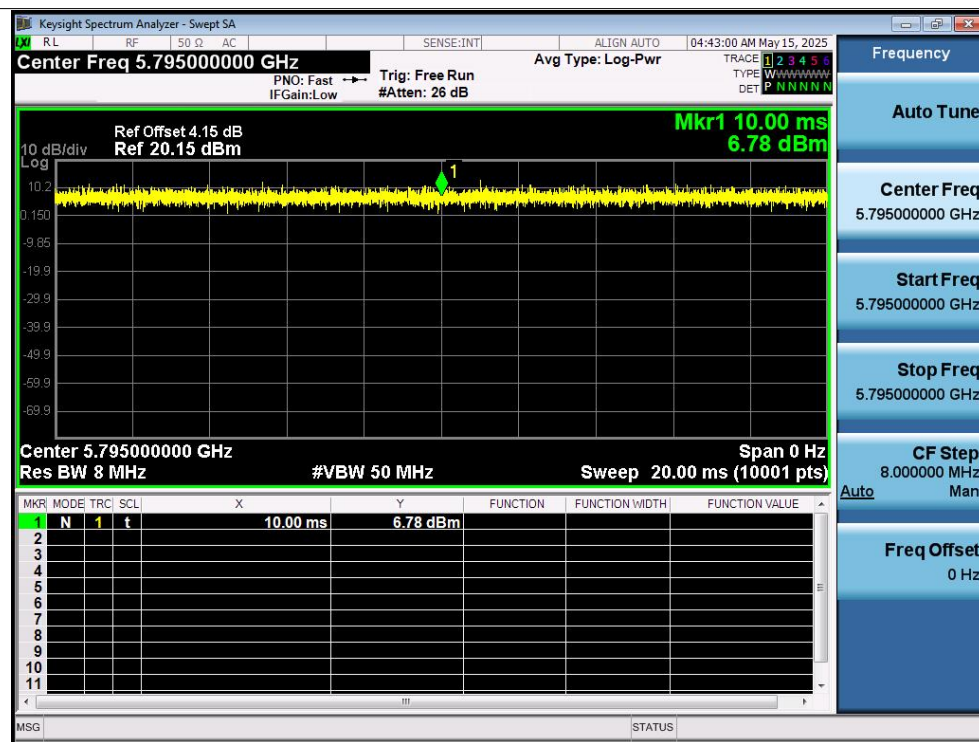
Duty Cycle NVNT ac40 5230MHz Ant1



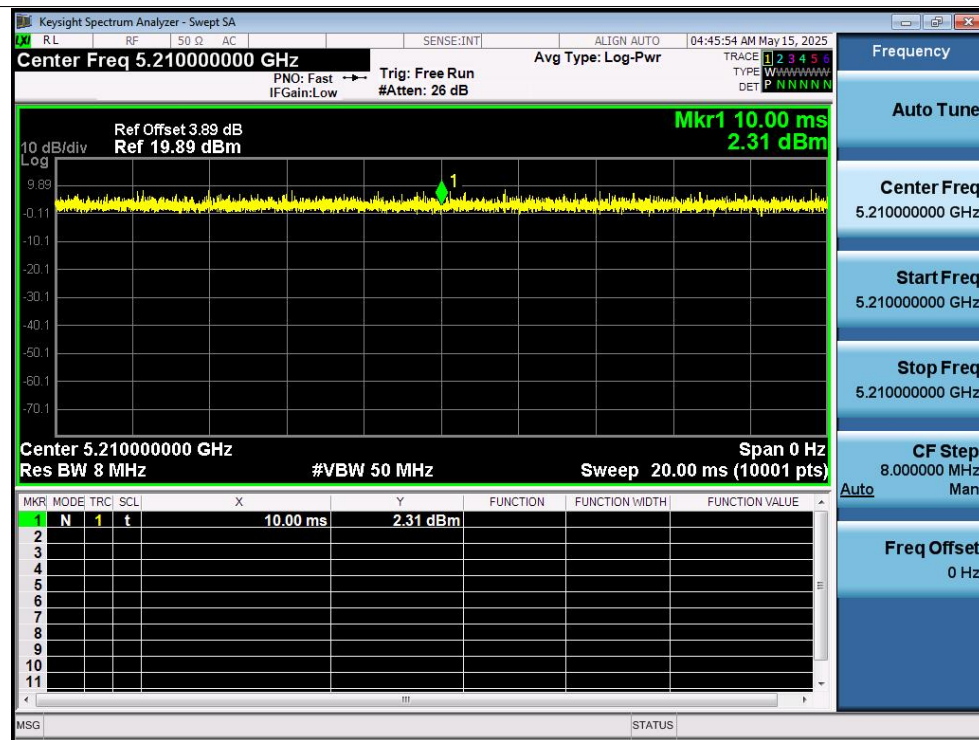
Duty Cycle NVNT ac40 5755MHz Ant1



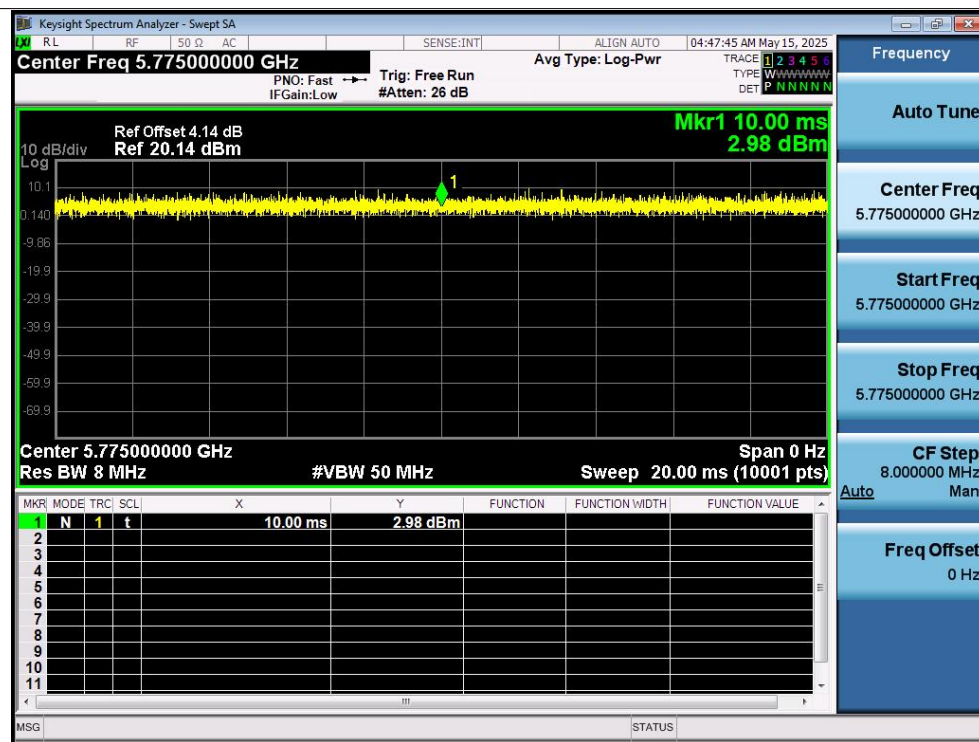
Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



Maximum Conducted Output Power

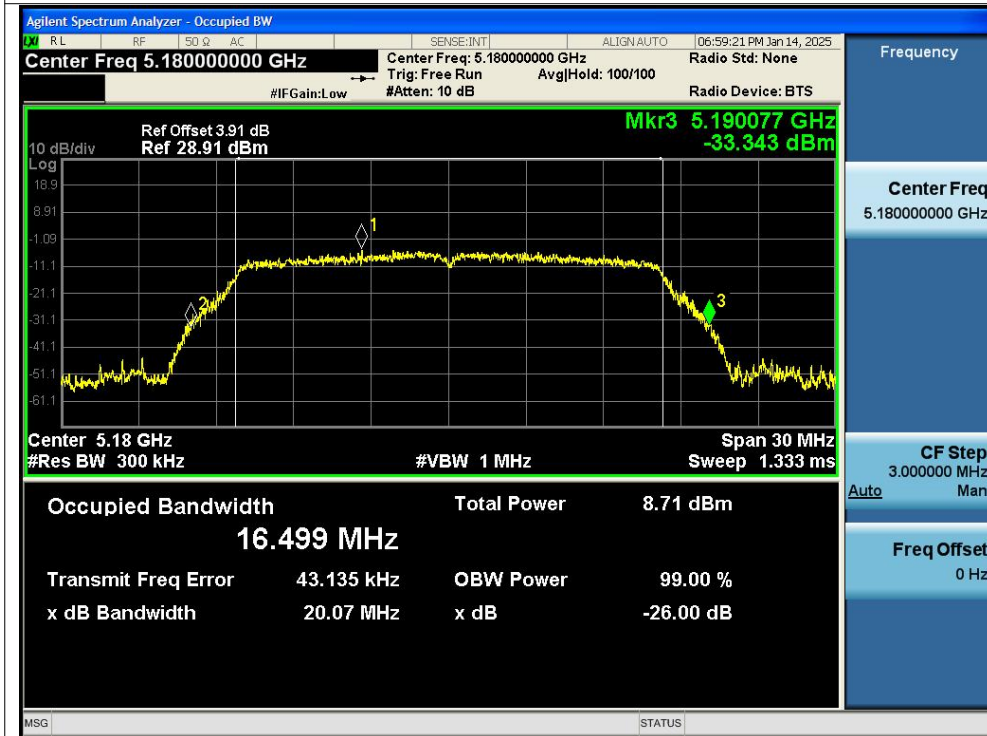
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.12	5.23	24	Pass
NVNT	a	5200	Ant1	5.21	5.32	24	Pass
NVNT	a	5240	Ant1	5.44	5.55	24	Pass
NVNT	a	5745	Ant1	5.77	5.88	30	Pass
NVNT	a	5785	Ant1	5.56	5.67	30	Pass
NVNT	a	5825	Ant1	5.86	5.96	30	Pass
NVNT	n20	5180	Ant1	5.4	5.4	24	Pass
NVNT	n20	5200	Ant1	5.75	5.75	24	Pass
NVNT	n20	5240	Ant1	5.45	5.45	24	Pass
NVNT	n20	5745	Ant1	6.48	6.48	30	Pass
NVNT	n20	5785	Ant1	6.28	6.28	30	Pass
NVNT	n20	5825	Ant1	6.52	6.52	30	Pass
NVNT	n40	5190	Ant1	6.08	6.08	24	Pass
NVNT	n40	5230	Ant1	5.66	5.66	24	Pass
NVNT	n40	5755	Ant1	6.73	6.73	30	Pass
NVNT	n40	5795	Ant1	6.5	6.5	30	Pass
NVNT	ac20	5180	Ant1	6.14	6.14	24	Pass
NVNT	ac20	5200	Ant1	5.99	5.99	24	Pass
NVNT	ac20	5240	Ant1	5.76	5.76	24	Pass
NVNT	ac20	5745	Ant1	6.75	6.75	30	Pass
NVNT	ac20	5785	Ant1	6.43	6.43	30	Pass
NVNT	ac20	5825	Ant1	6.58	6.58	30	Pass
NVNT	ac40	5190	Ant1	6.14	6.14	24	Pass
NVNT	ac40	5230	Ant1	5.83	5.83	24	Pass
NVNT	ac40	5755	Ant1	6.99	6.99	30	Pass
NVNT	ac40	5795	Ant1	6.68	6.68	30	Pass
NVNT	ac80	5210	Ant1	5.91	5.91	24	Pass
NVNT	ac80	5775	Ant1	6.75	6.75	30	Pass

-26dB Bandwidth

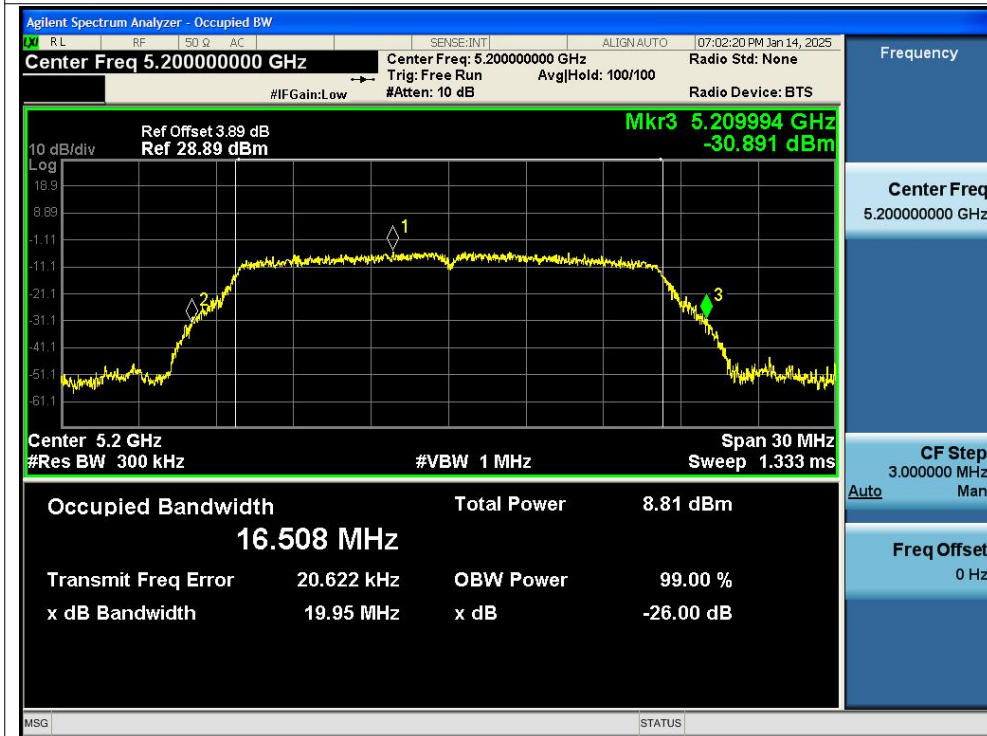
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.067	0.5	Pass
NVNT	a	5200	Ant1	19.948	0.5	Pass
NVNT	a	5240	Ant1	19.915	0.5	Pass
NVNT	n20	5180	Ant1	19.862	0.5	Pass
NVNT	n20	5200	Ant1	20.005	0.5	Pass
NVNT	n20	5240	Ant1	19.812	0.5	Pass
NVNT	n40	5190	Ant1	39.938	0.5	Pass
NVNT	n40	5230	Ant1	39.385	0.5	Pass
NVNT	ac20	5180	Ant1	20.179	0.5	Pass
NVNT	ac20	5200	Ant1	20.053	0.5	Pass
NVNT	ac20	5240	Ant1	20.035	0.5	Pass
NVNT	ac40	5190	Ant1	38.919	0.5	Pass
NVNT	ac40	5230	Ant1	39.239	0.5	Pass
NVNT	ac80	5210	Ant1	79.213	0.5	Pass

Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1

