

FCC 47 CFR Part 15.407

TEST REPORT

For

Smart Projector

MODEL NUMBER: HY300

REPORT NUMBER: E01A23070868F00306

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Prepared for

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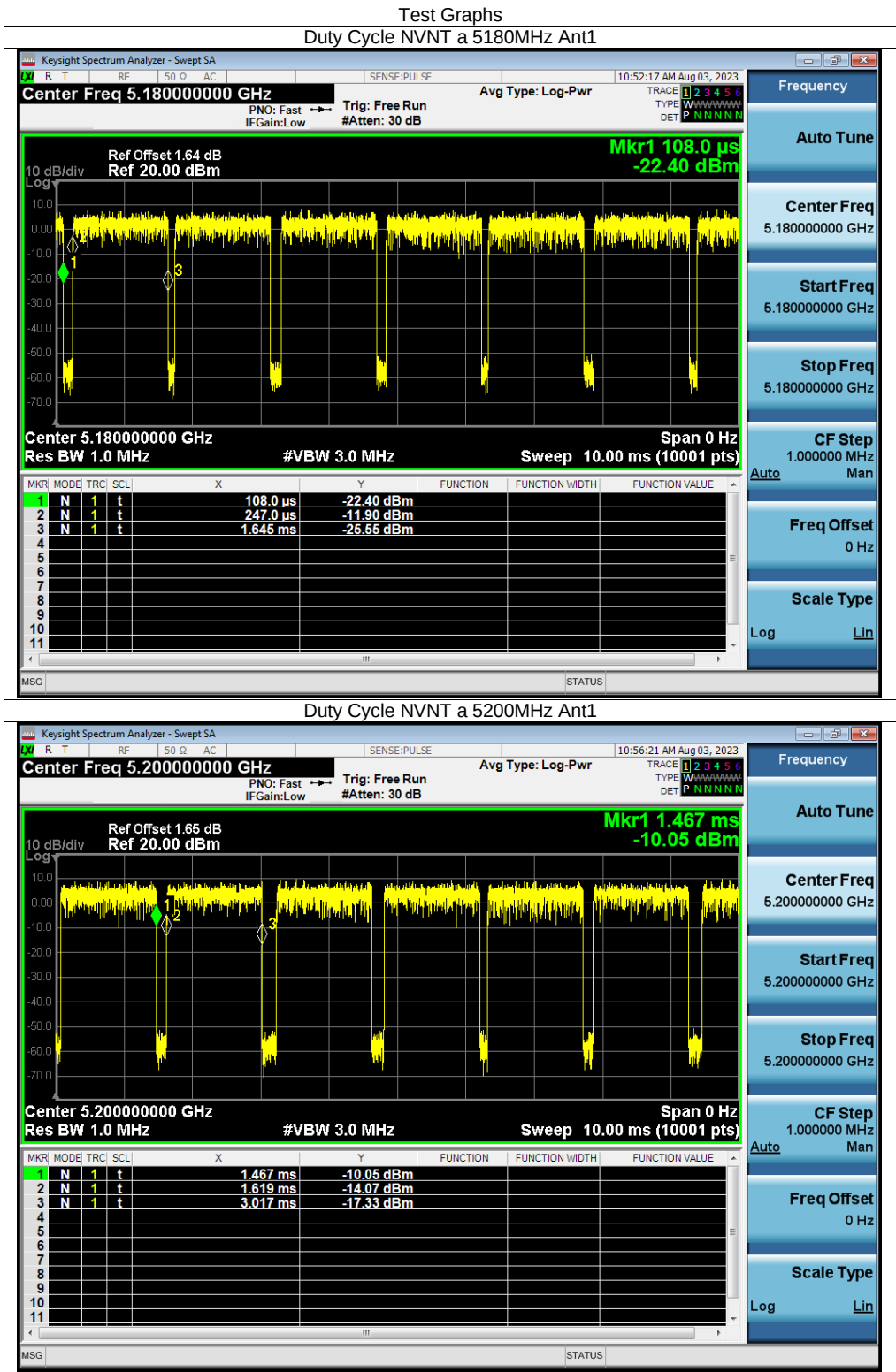
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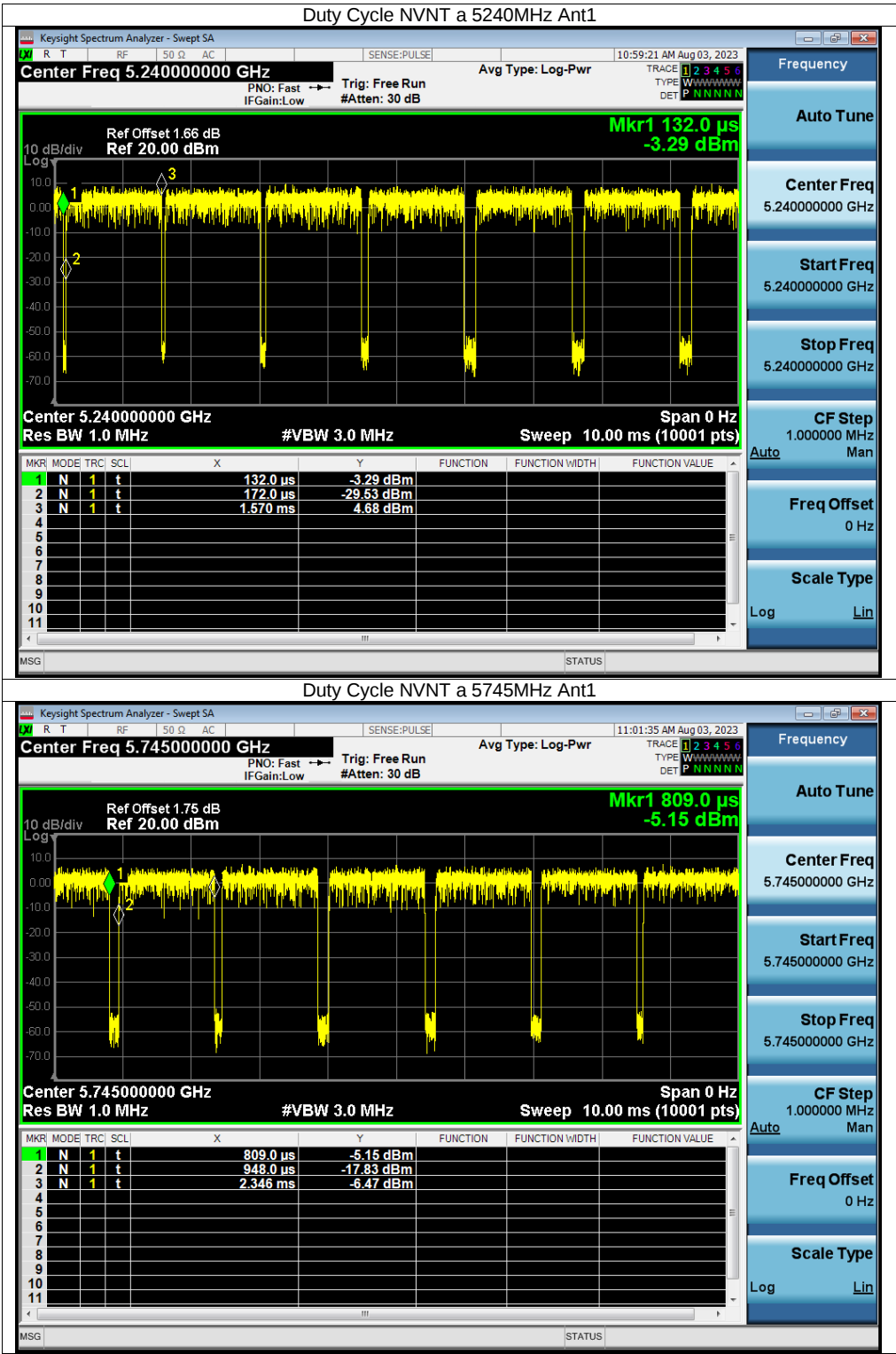
Revision History

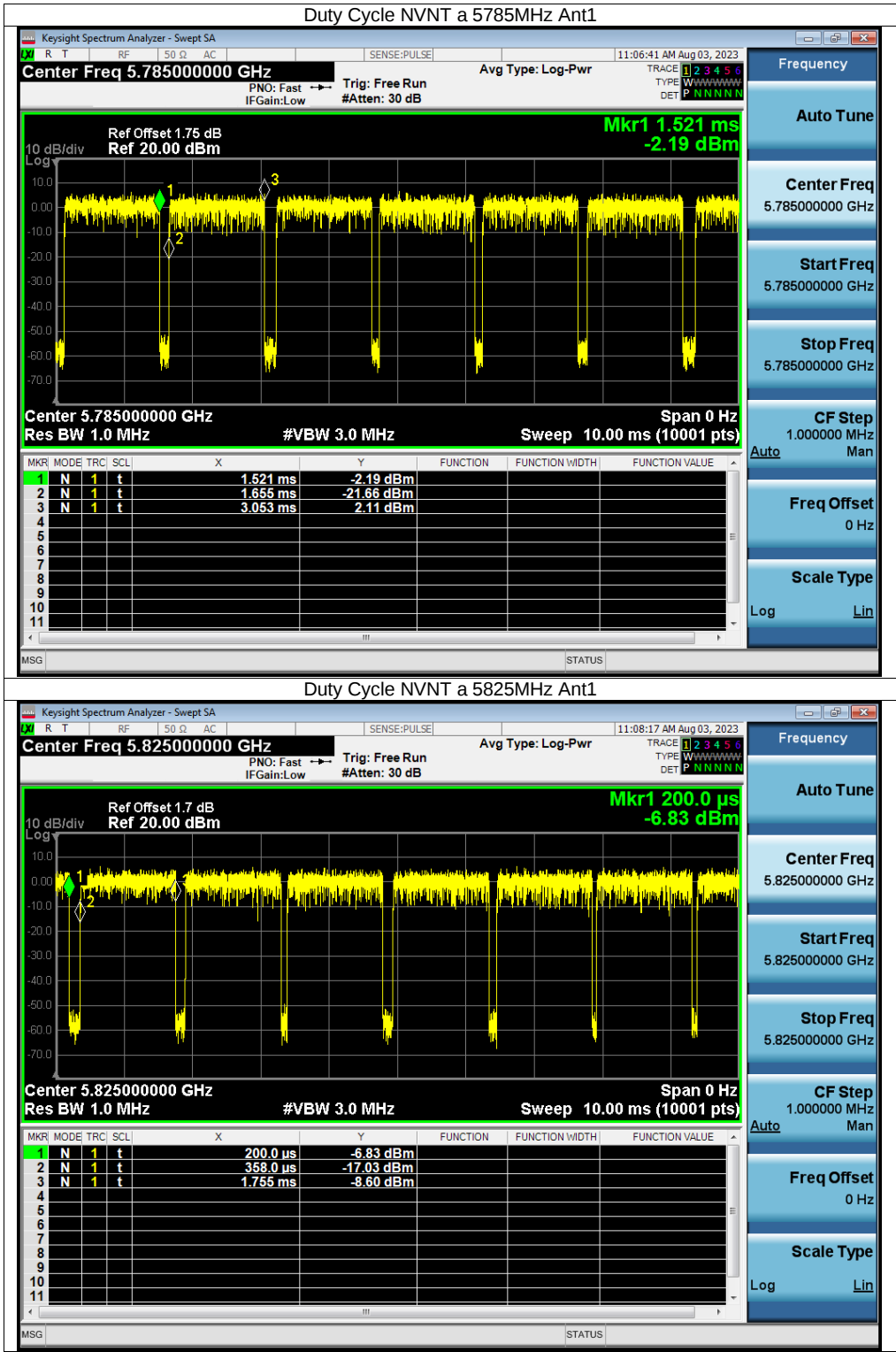
Rev.	Issue Date	Revisions	Revised By
V0	September 1, 2023	Initial Issue	Poal Chen

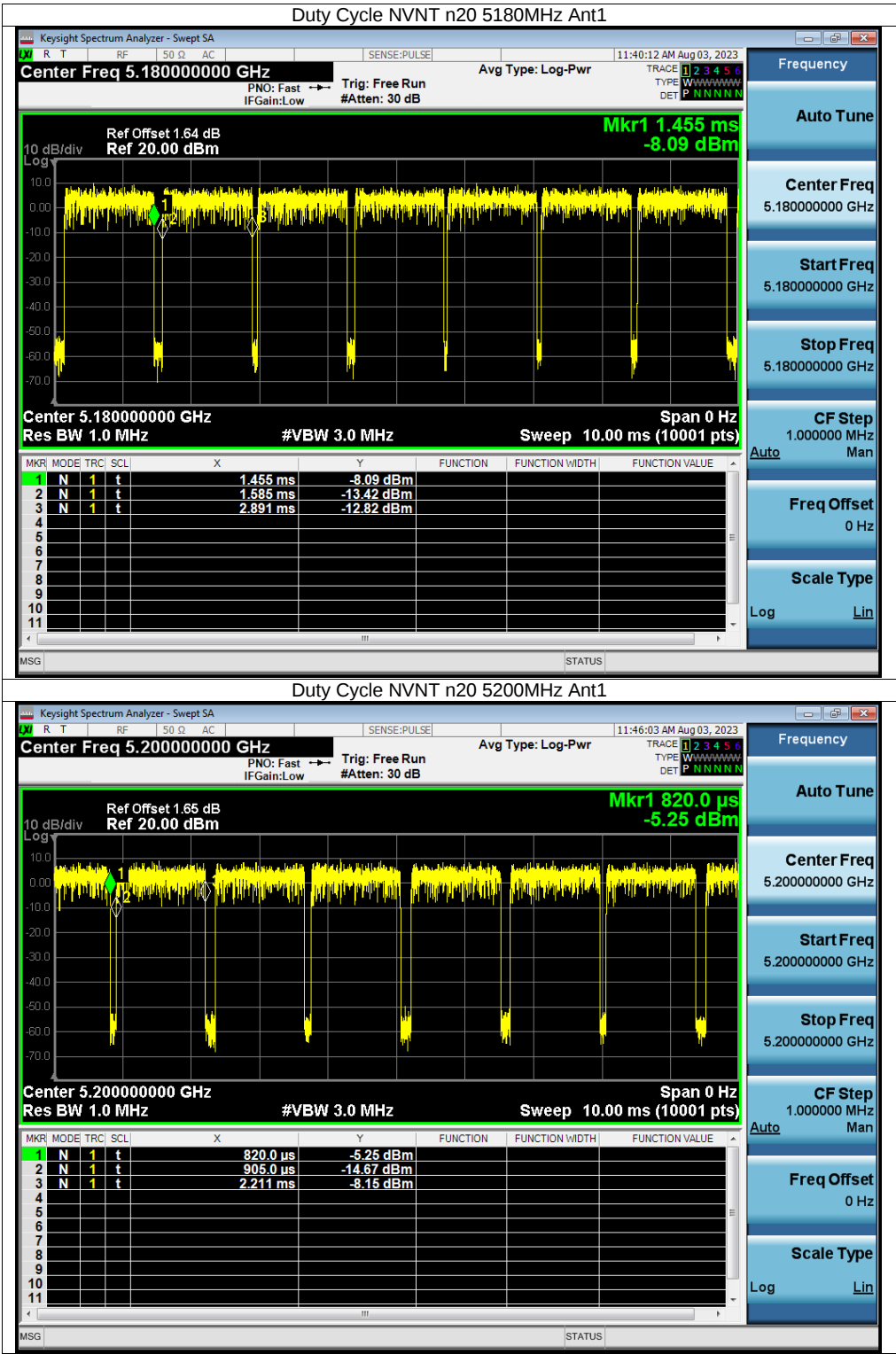
Appendix A Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	90.96	0.41	0.72
NVNT	a	5200	Ant1	90.19	0.45	0.72
NVNT	a	5240	Ant1	97.22	0.12	0.72
NVNT	a	5745	Ant1	90.96	0.41	0.72
NVNT	a	5785	Ant1	91.25	0.4	0.72
NVNT	a	5825	Ant1	89.84	0.47	0.72
NVNT	n20	5180	Ant1	90.95	0.41	0.77
NVNT	n20	5200	Ant1	93.89	0.27	0.77
NVNT	n20	5240	Ant1	88.18	0.55	0.77
NVNT	n20	5745	Ant1	88.18	0.55	0.77
NVNT	n20	5785	Ant1	96.95	0.13	0.77
NVNT	n20	5825	Ant1	95.12	0.22	0.77
NVNT	n40	5190	Ant1	78.84	1.03	1.54
NVNT	n40	5230	Ant1	84.31	0.74	1.54
NVNT	n40	5755	Ant1	94.2	0.26	1.54
NVNT	n40	5795	Ant1	83.93	0.76	1.54
NVNT	ac20	5180	Ant1	88.81	0.52	0.76
NVNT	ac20	5200	Ant1	89.9	0.46	0.76
NVNT	ac20	5240	Ant1	90.96	0.41	0.76
NVNT	ac20	5745	Ant1	91.52	0.38	0.76
NVNT	ac20	5785	Ant1	93.34	0.3	0.76
NVNT	ac20	5825	Ant1	91.59	0.38	0.76
NVNT	ac40	5190	Ant1	86.4	0.63	1.52
NVNT	ac40	5230	Ant1	86.47	0.63	1.52
NVNT	ac40	5755	Ant1	84.52	0.73	1.52
NVNT	ac40	5795	Ant1	91.97	0.36	1.52
NVNT	ax20	5180	Ant1	90	0.46	0.99
NVNT	ax20	5200	Ant1	70.39	1.52	0.99
NVNT	ax20	5240	Ant1	83.72	0.77	0.99
NVNT	ax20	5745	Ant1	87.79	0.57	0.99
NVNT	ax20	5785	Ant1	88.26	0.54	0.99
NVNT	ax20	5825	Ant1	81.21	0.9	0.99
NVNT	ax40	5190	Ant1	83.78	0.77	1.88
NVNT	ax40	5230	Ant1	75.25	1.23	1.88
NVNT	ax40	5755	Ant1	91.72	0.38	1.88
NVNT	ax40	5795	Ant1	80.36	0.95	1.88









Duty Cycle NVNT n20 5200MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 5.200000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

11:46:03 AM Aug 03, 2023

10 dB/div

Log

Ref Offset 1.65 dB

Ref 20.00 dBm

Mkr1 820.0 μs

-5.25 dBm

Center 5.200000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 10.00 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	820.0 μs	-5.25 dBm			
2	N	1	t	905.0 μs	-14.67 dBm			
3	N	1	t	2.211 ms	-8.15 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 5.200000000 GHz

Start Freq 5.200000000 GHz

Stop Freq 5.200000000 GHz

CF Step 1.000000 MHz

Auto

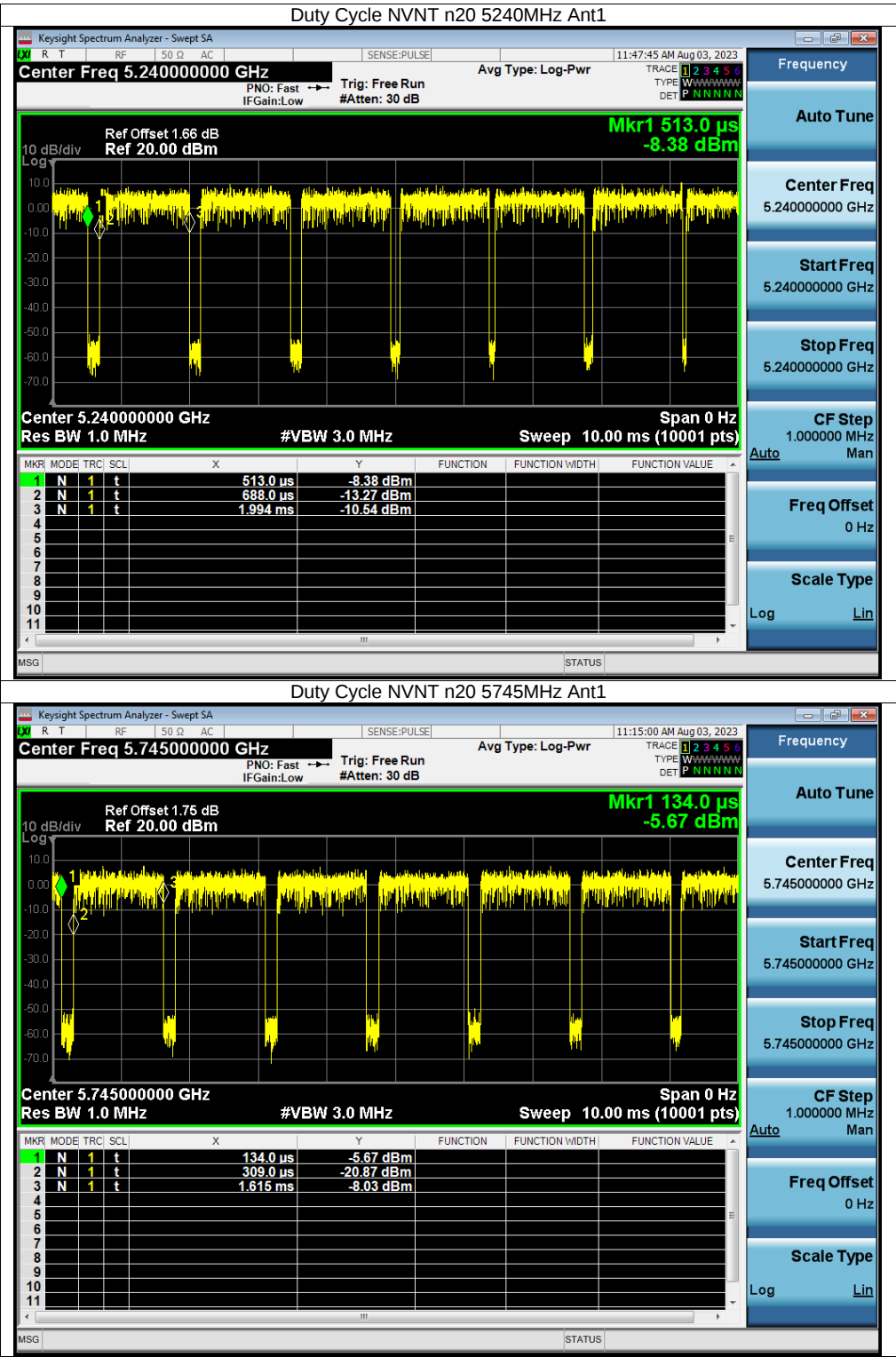
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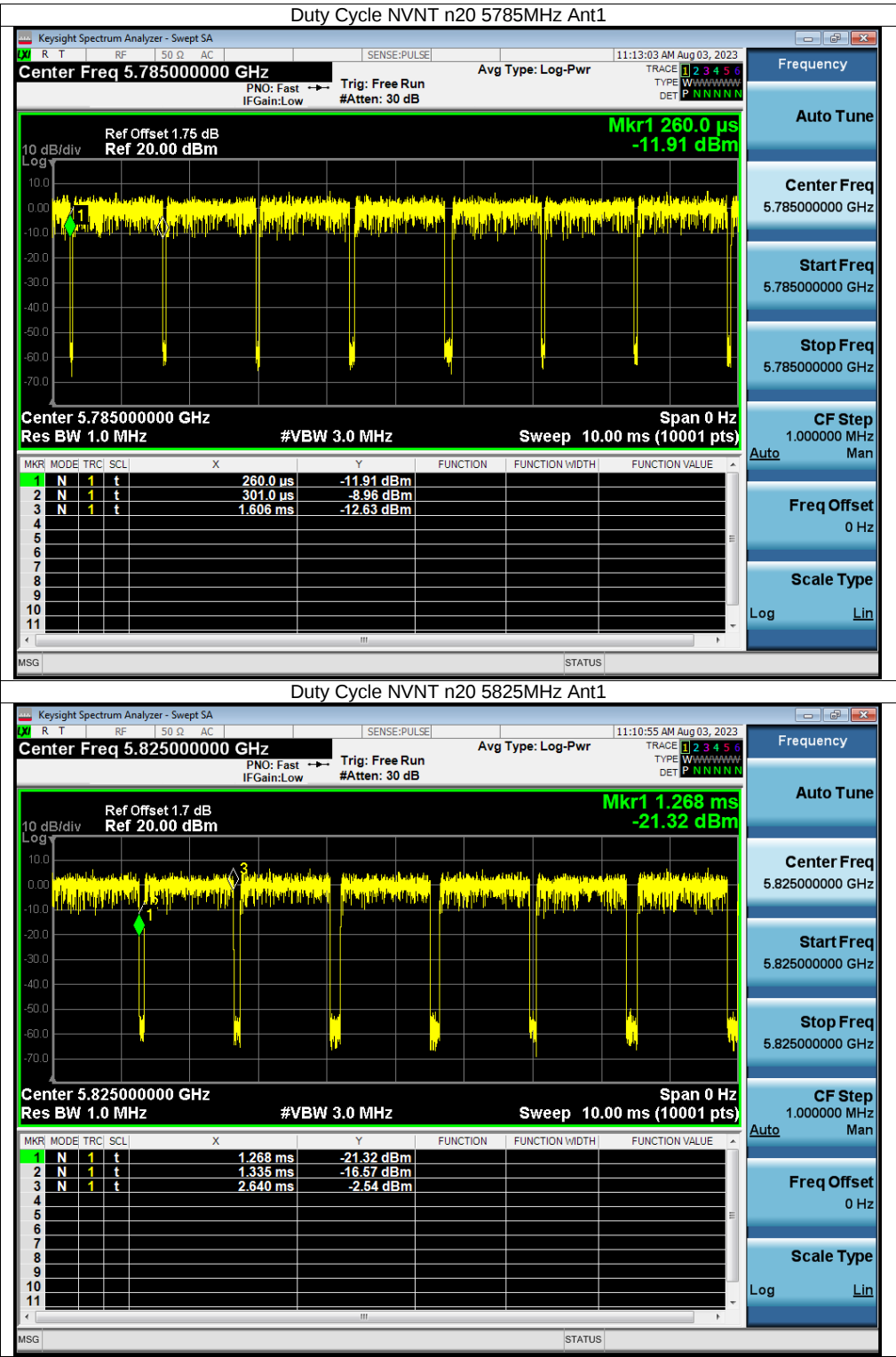
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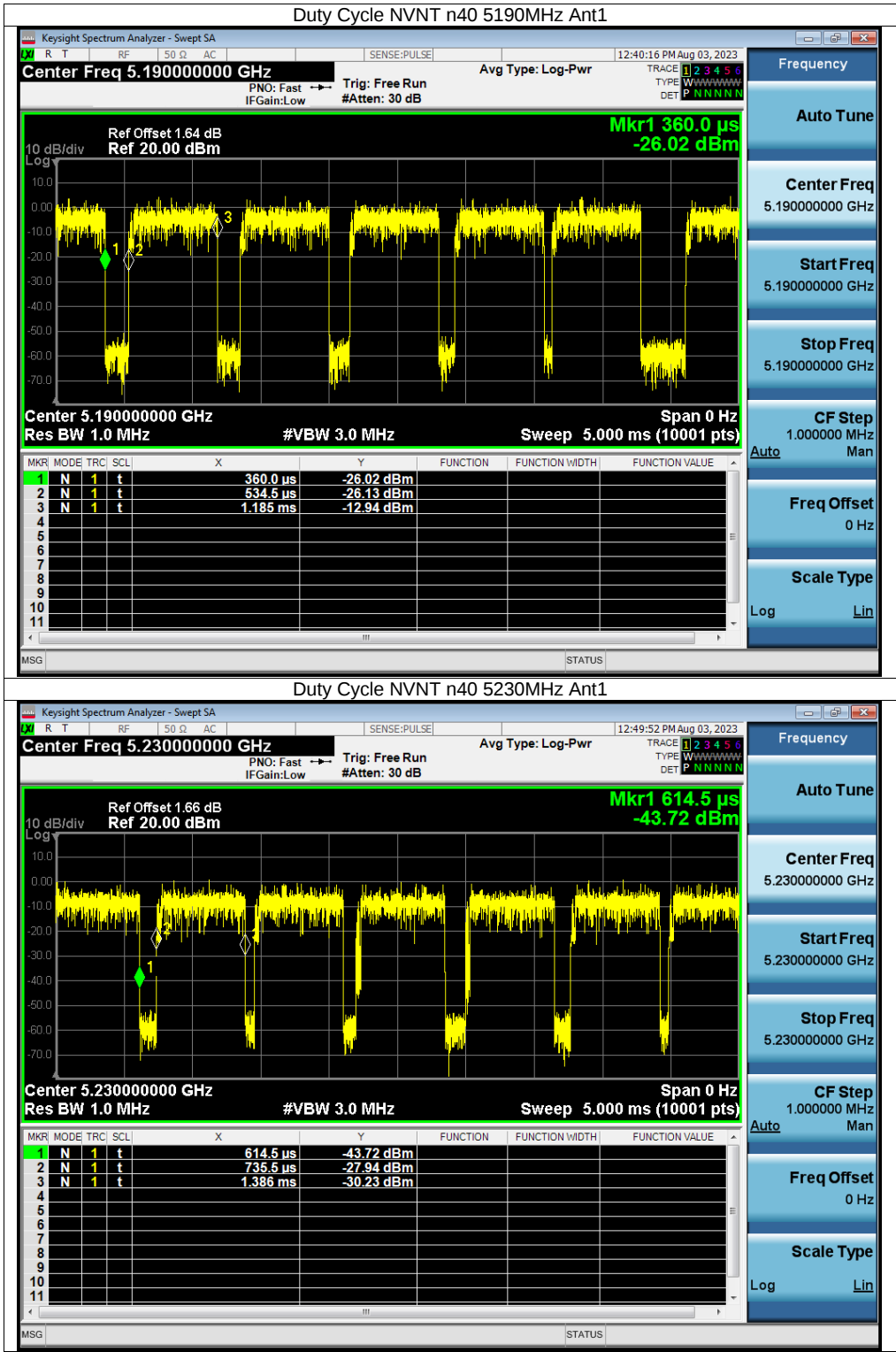
Scale Type

Log

Lin







Duty Cycle NVNT n40 5230MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 5.230000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

12:49:52 PM Aug 03, 2023

10 dB/div

Log

Ref Offset 1.66 dB

Ref 20.00 dBm

Mkr1 614.5 μ s

-43.72 dBm

Center 5.230000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 5.000 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	614.5 μ s	-43.72 dBm			
2	N	1	t	735.5 μ s	-27.94 dBm			
3	N	1	t	1.386 ms	-30.23 dBm			
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
1.000000 MHz

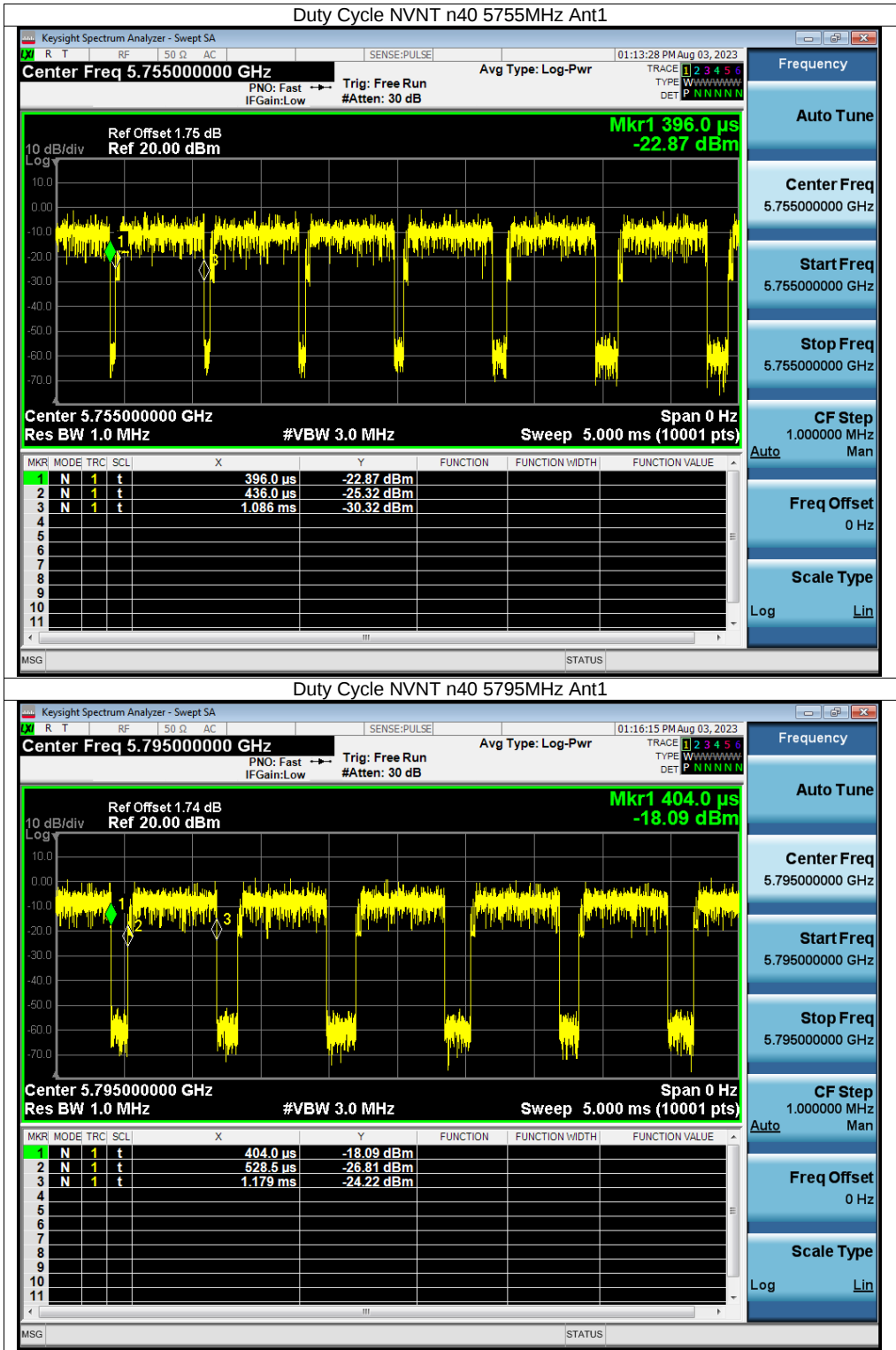
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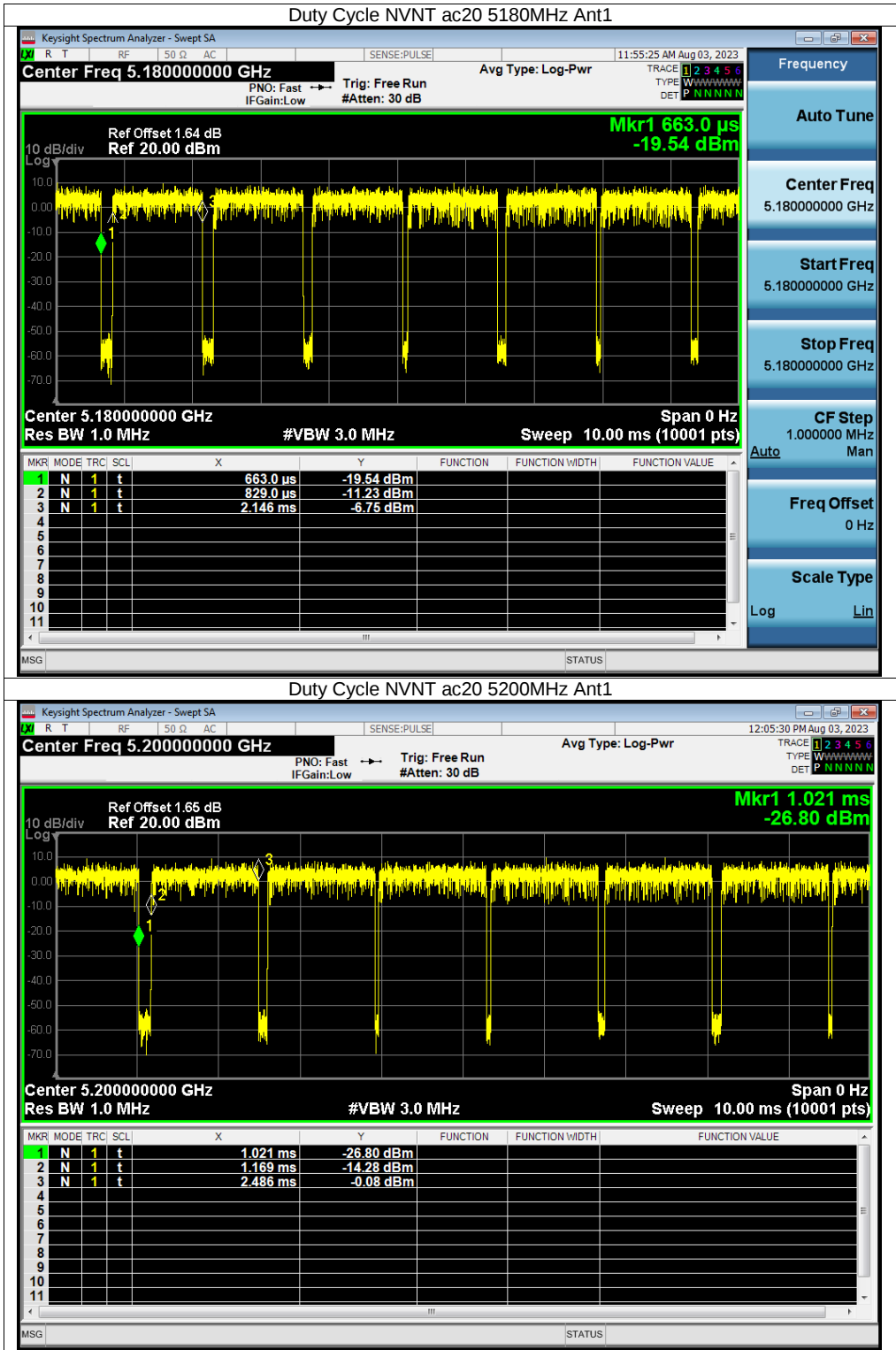
Man

Freq Offset
0 Hz

Scale Type
Log

Lin





Duty Cycle NVNT ac20 5200MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 5.200000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

12:05:30 PM Aug 03, 2023

10 dB/div

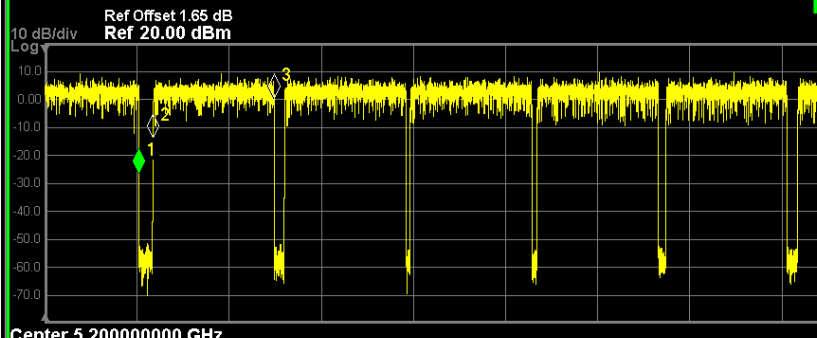
Log

Ref Offset 1.65 dB

Ref 20.00 dBm

Mkr1 1.021 ms

-26.80 dBm



Center 5.200000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

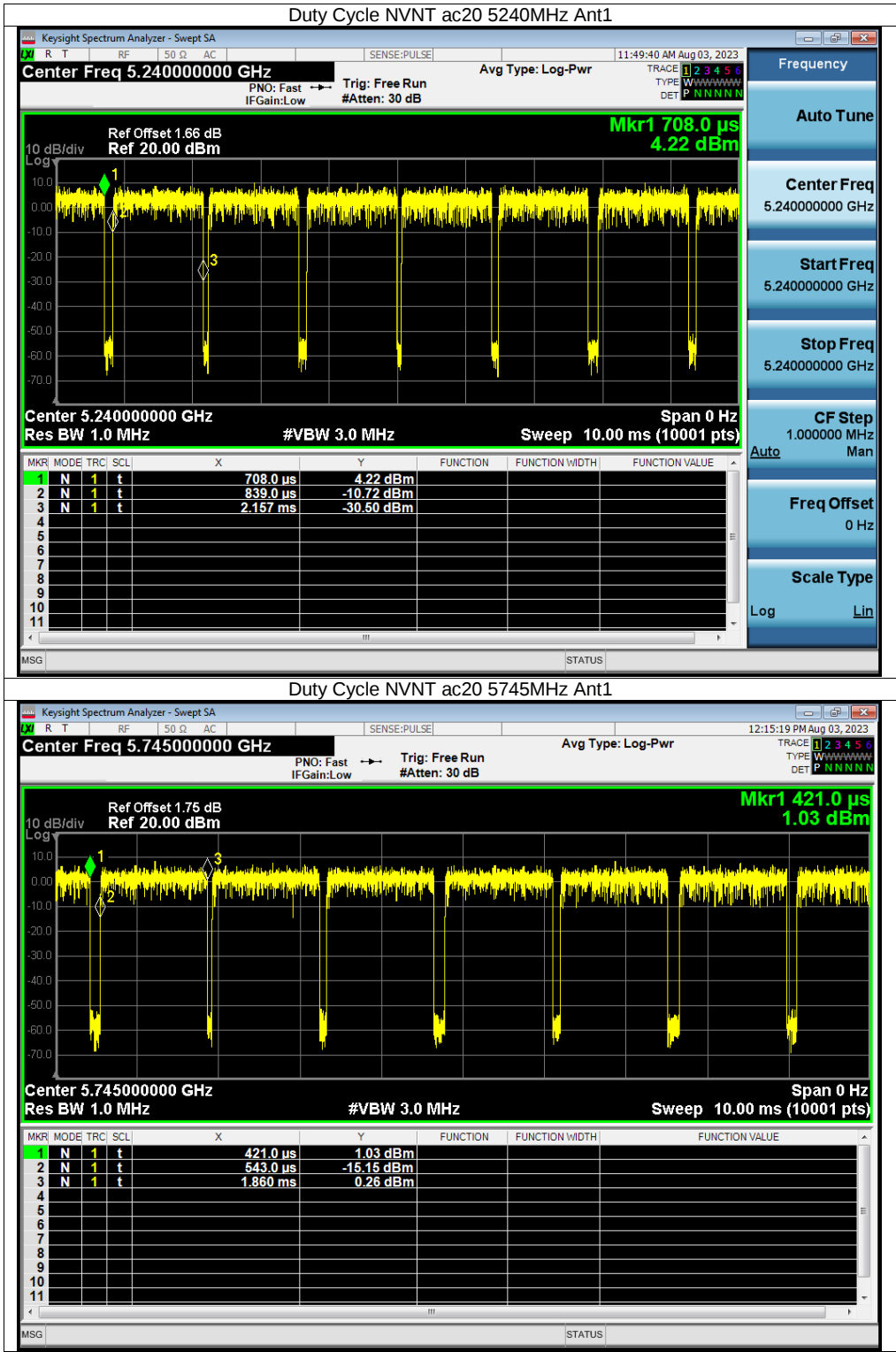
Sweep 10.00 ms (10001 pts)

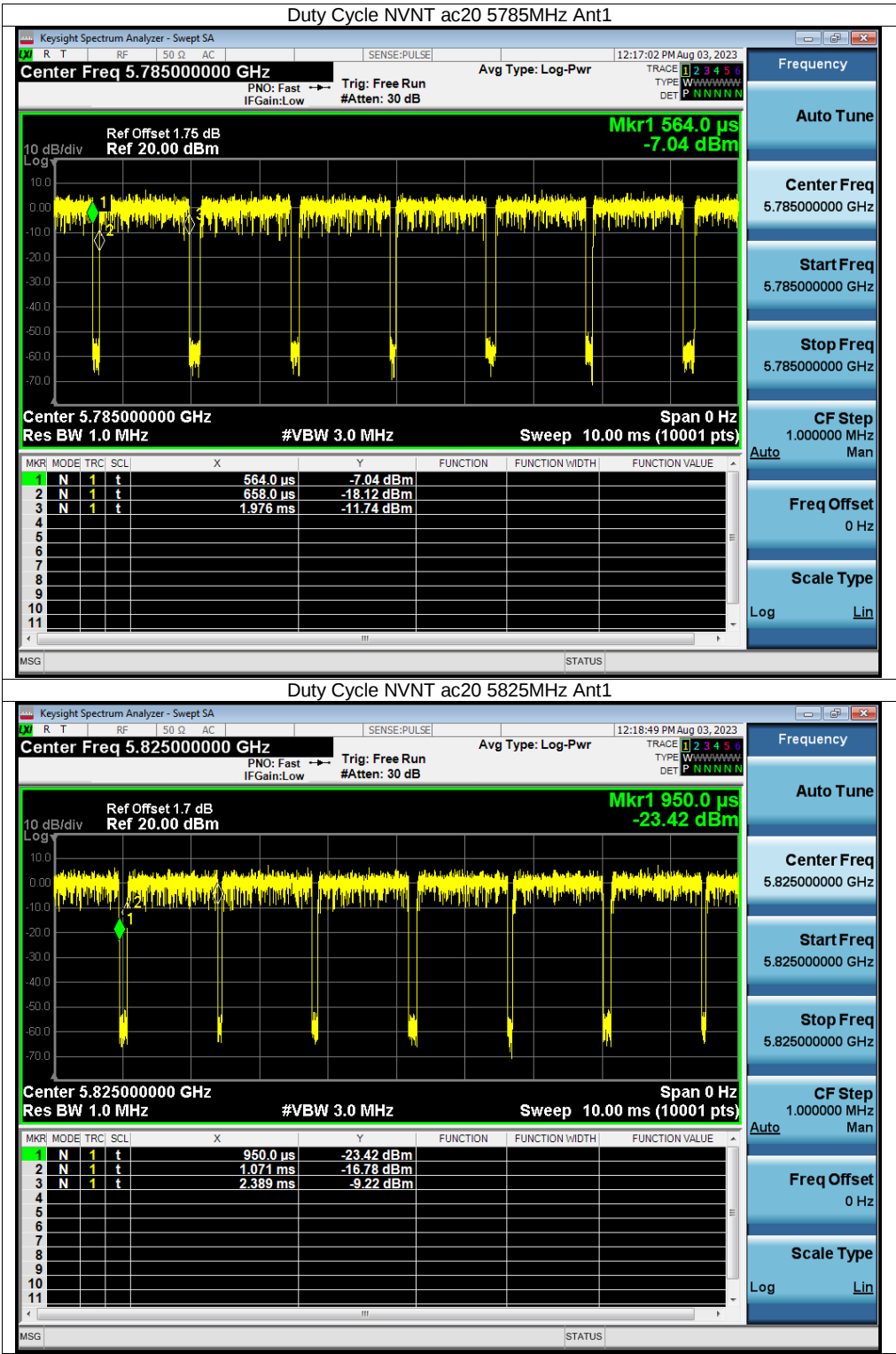
Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.021 ms	-26.80 dBm			
2	N	1	t	1.169 ms	-14.28 dBm			
3	N	1	t	2.486 ms	-0.08 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS





Duty Cycle NVNT ac20 5825MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 5.825000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

12:18:49 PM Aug 03, 2023

10 dB/div

Log

Ref Offset 1.7 dB

Ref 20.00 dBm

Mkr1 950.0 μ s

-23.42 dBm

Center 5.825000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 10.00 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	950.0 μ s	-23.42 dBm			
2	N	1	t	1.071 ms	-16.78 dBm			
3	N	1	t	2.389 ms	-9.22 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
5.825000000 GHz

Start Freq
5.825000000 GHz

Stop Freq
5.825000000 GHz

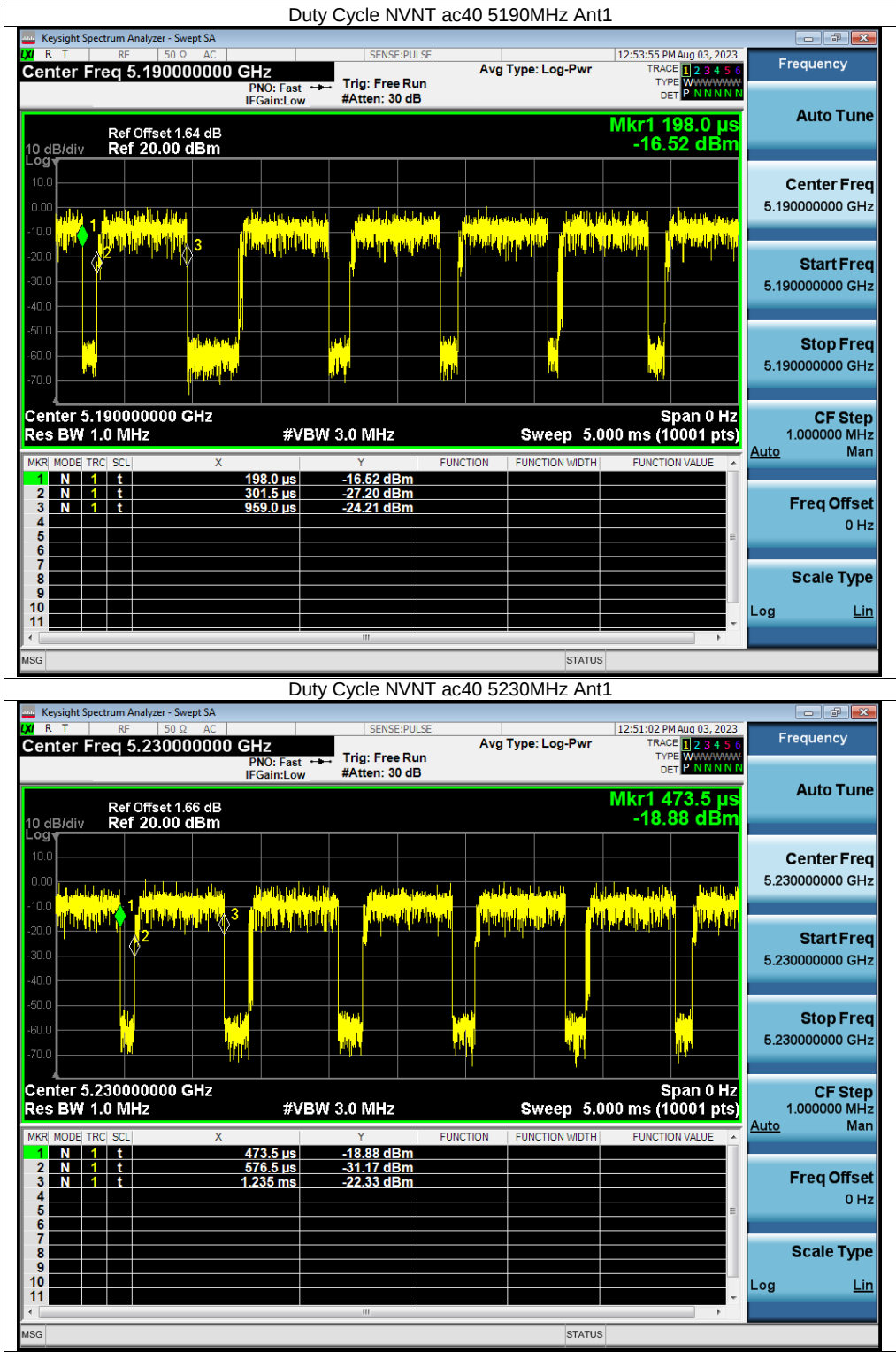
CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

Scale Type
Log

Lin



Duty Cycle NVNT ac40 5230MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 5.230000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

12:51:02 PM Aug 03, 2023

10 dB/div

Log

Ref Offset 1.66 dB

Ref 20.00 dBm

Mkr1 473.5 μ s

-18.88 dBm

Center 5.230000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 5.000 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	473.5 μ s	-18.88 dBm			
2	N	1	t	576.5 μ s	-31.17 dBm			
3	N	1	t	1.235 ms	-22.33 dBm			
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

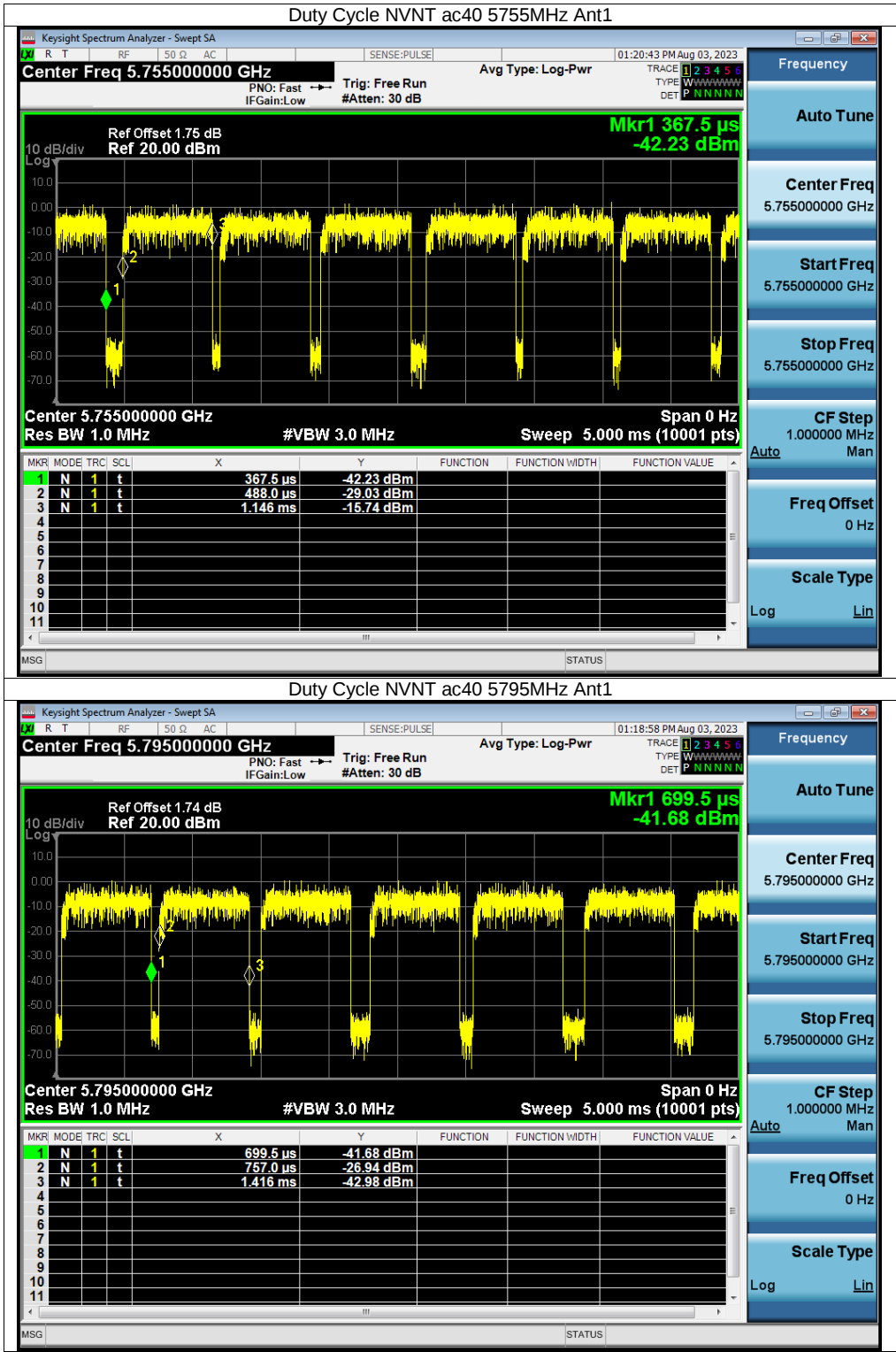
CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

Scale Type
Log

Lin



Duty Cycle NVNT ac40 5795MHz Ant1

Keysight Spectrum Analyzer - Swept SA

Center Freq 5.795000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

01:18:58 PM Aug 03, 2023

10 dB/div

Log

Ref Offset 1.74 dB

Ref 20.00 dBm

Mkr1 699.5 μ s

-41.68 dBm

Center 5.795000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 5.000 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	699.5 μ s	-41.68 dBm			
2	N	1	t	757.0 μ s	-26.94 dBm			
3	N	1	t	1.416 ms	-42.98 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 5.795000000 GHz

Start Freq 5.795000000 GHz

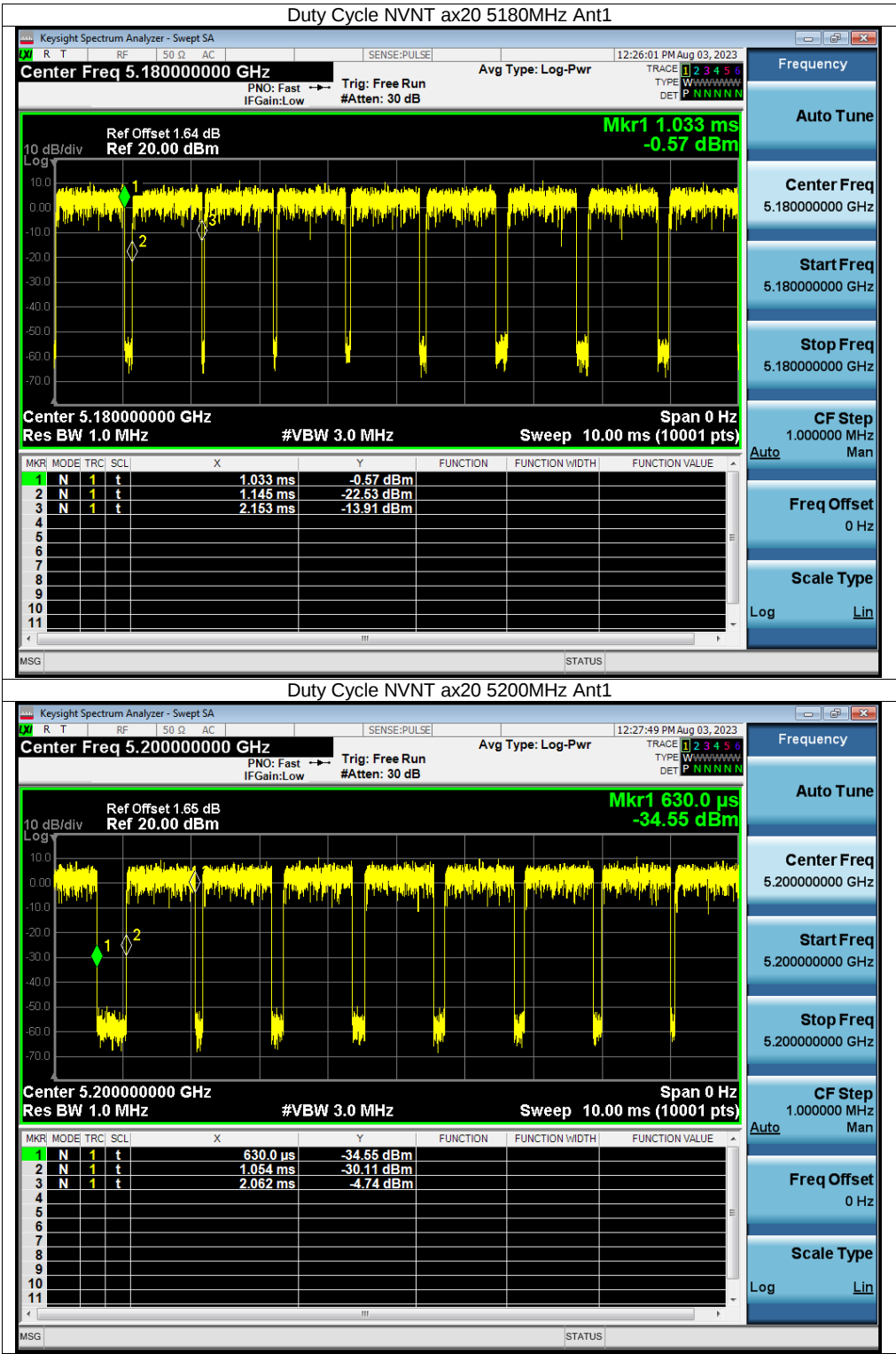
Stop Freq 5.795000000 GHz

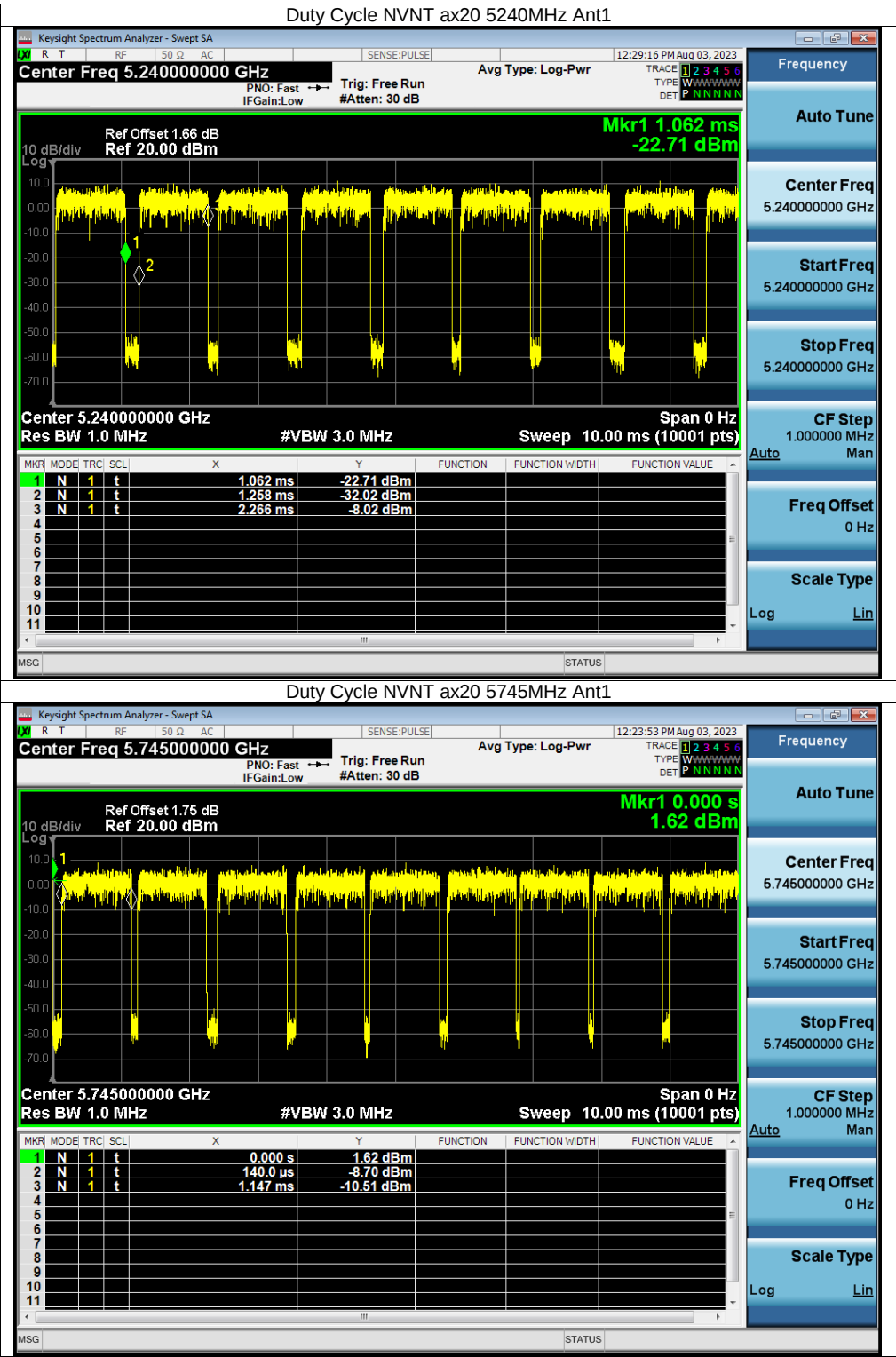
CF Step 1.000000 MHz

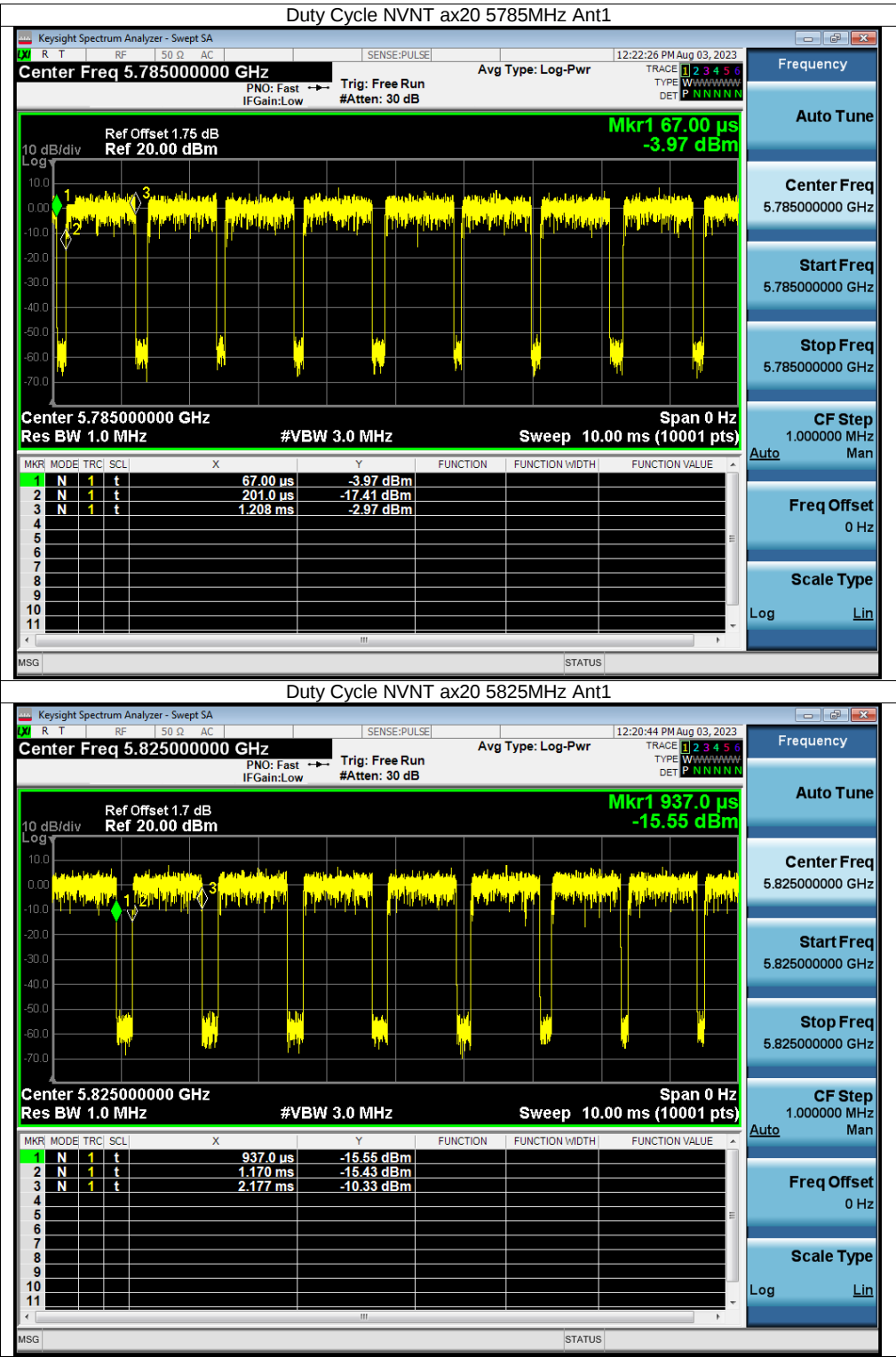
Auto Man

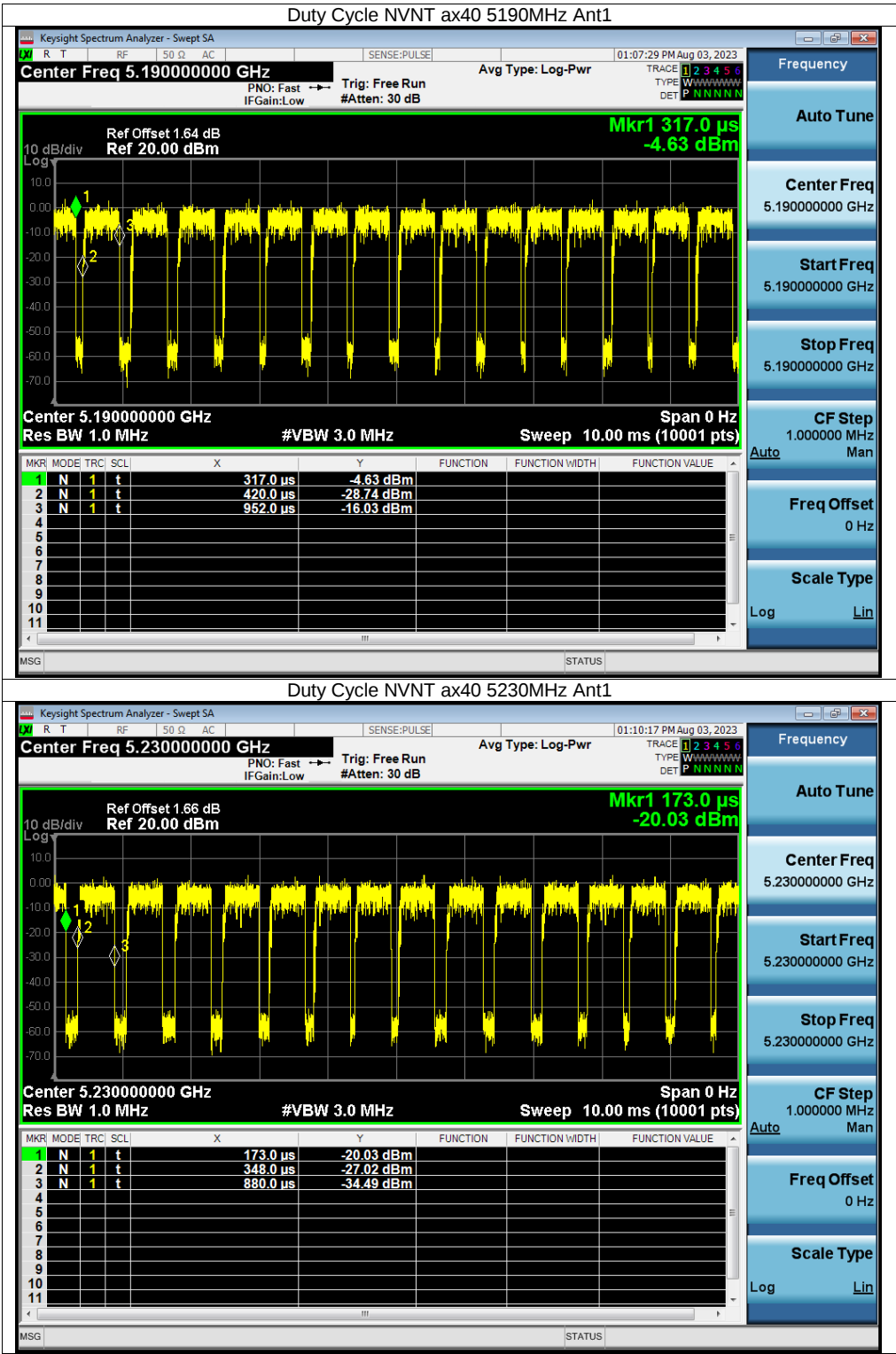
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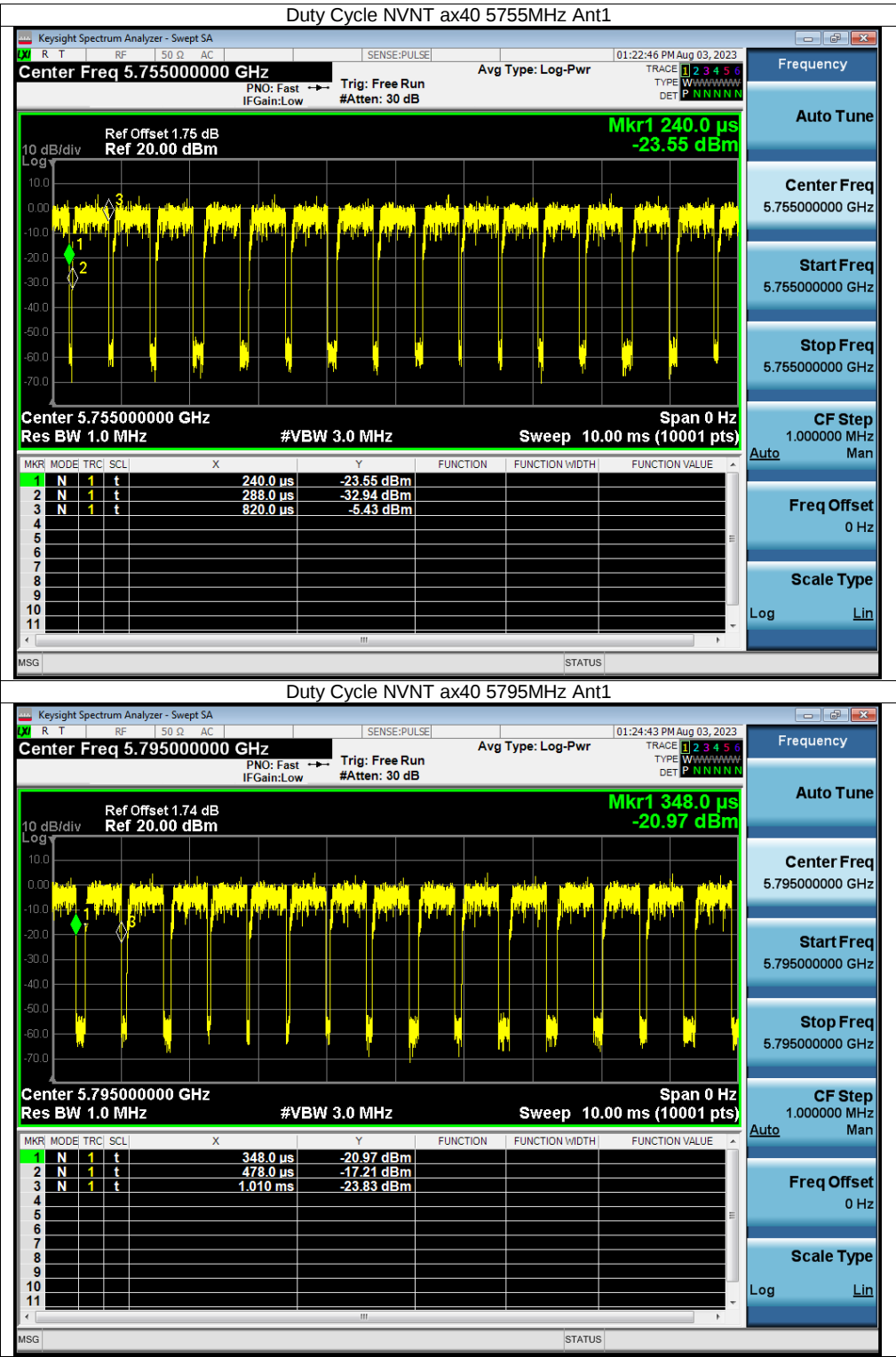
Scale Type Log Lin









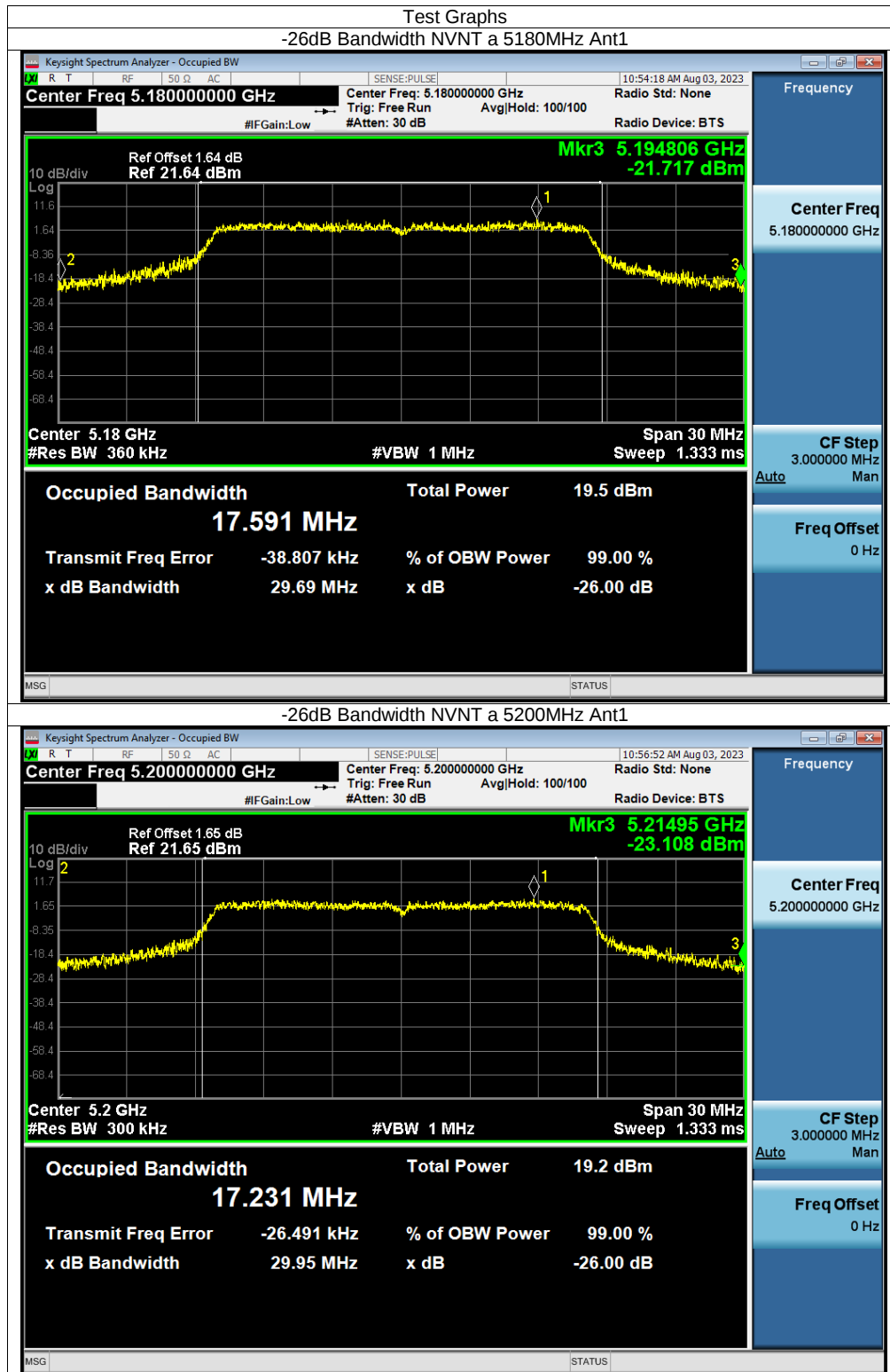


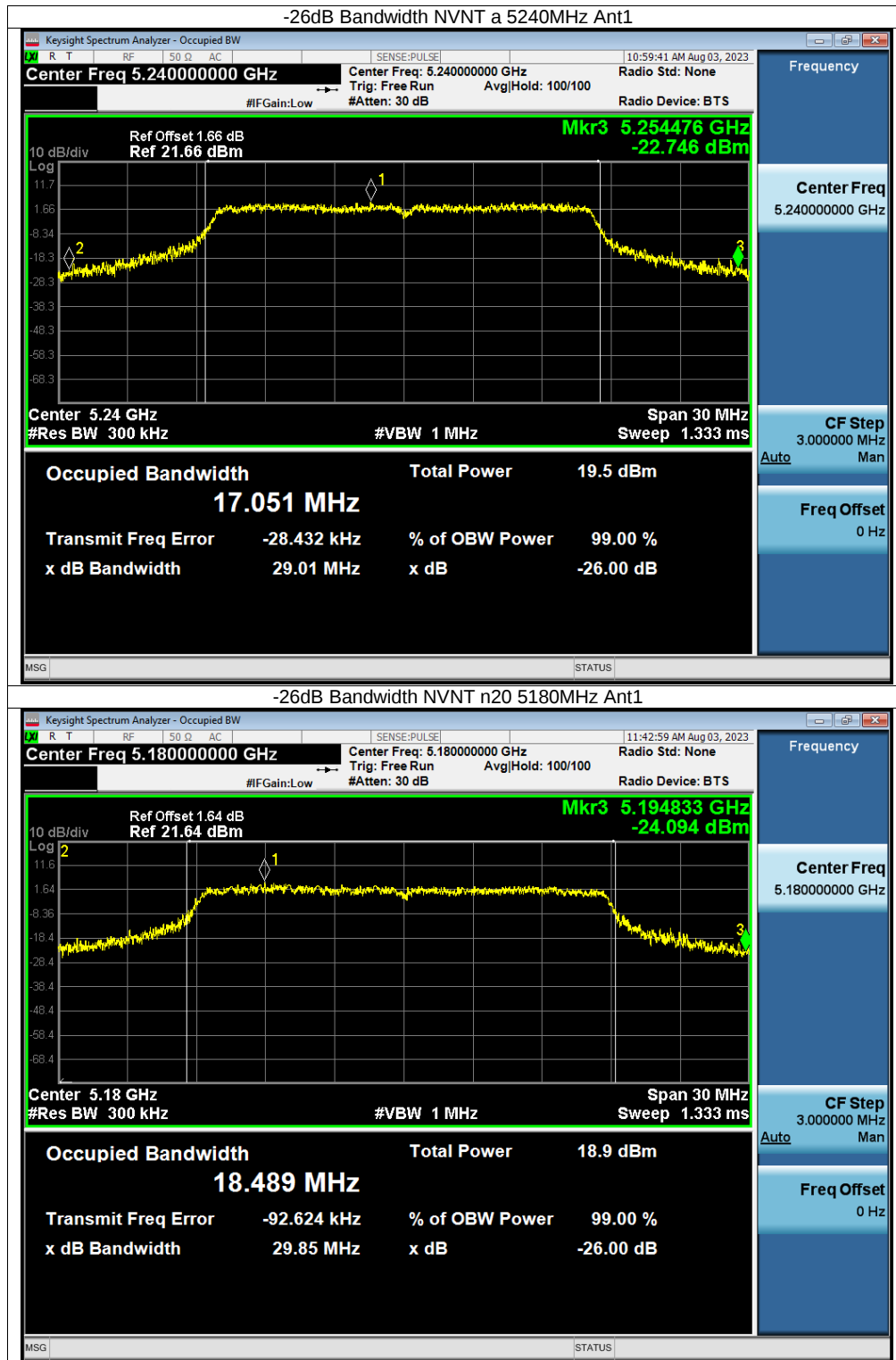
Appendix B Maximum Conducted Output Power

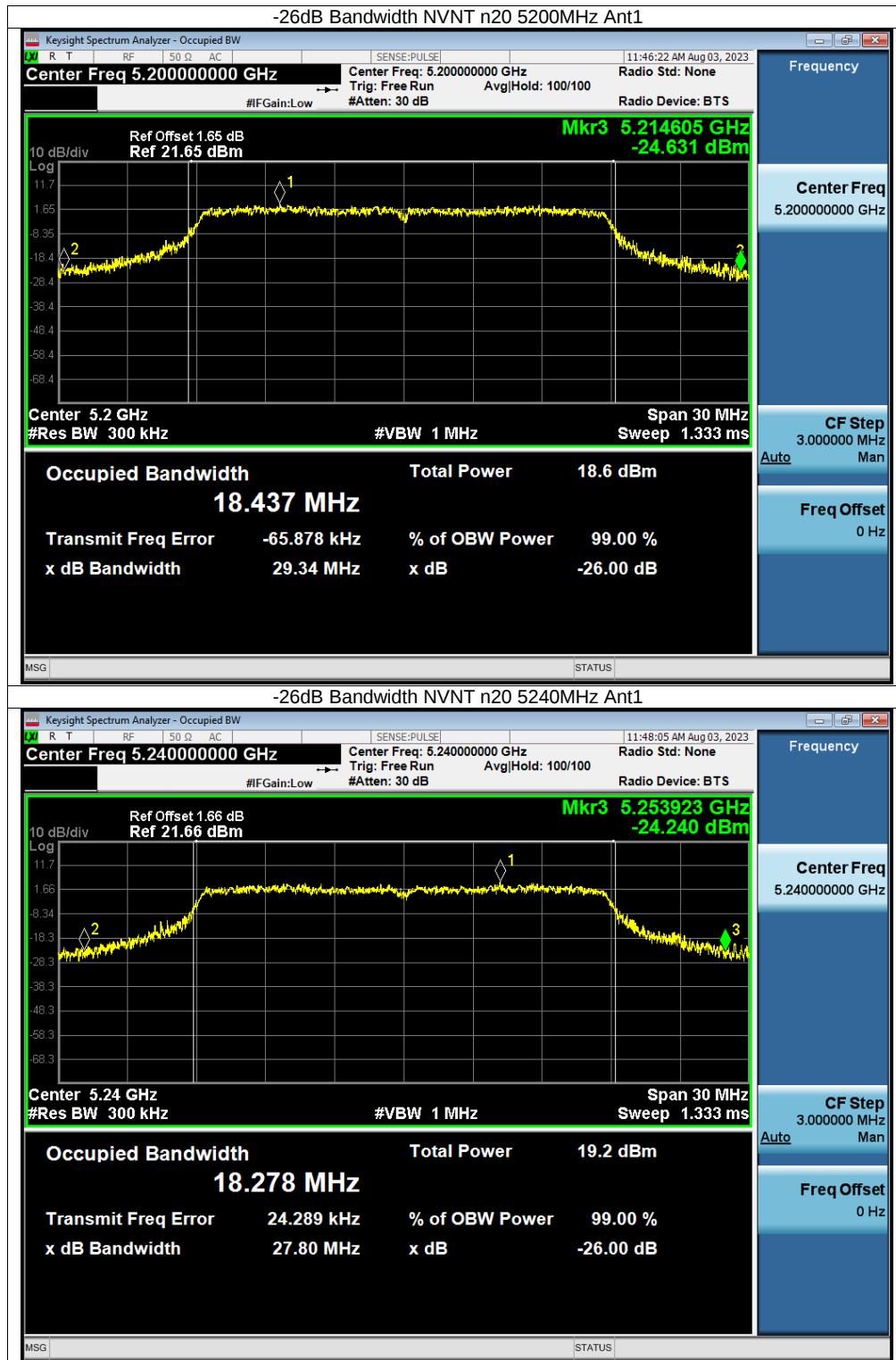
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	13.54	0.41	13.95	24	Pass
NVNT	a	5200	Ant1	13.19	0.45	13.64	24	Pass
NVNT	a	5240	Ant1	13.67	0.12	13.79	24	Pass
NVNT	a	5745	Ant1	11.5	0.41	11.91	30	Pass
NVNT	a	5785	Ant1	10.09	0.4	10.49	30	Pass
NVNT	a	5825	Ant1	9.81	0.47	10.28	30	Pass
NVNT	n20	5180	Ant1	12.74	0.41	13.15	24	Pass
NVNT	n20	5200	Ant1	12.63	0.27	12.9	24	Pass
NVNT	n20	5240	Ant1	13.26	0.55	13.81	24	Pass
NVNT	n20	5745	Ant1	10.98	0.55	11.53	30	Pass
NVNT	n20	5785	Ant1	9.97	0.13	10.1	30	Pass
NVNT	n20	5825	Ant1	9.91	0.22	10.13	30	Pass
NVNT	n40	5190	Ant1	9.7	1.03	10.73	24	Pass
NVNT	n40	5230	Ant1	9.06	0.74	9.8	24	Pass
NVNT	n40	5755	Ant1	11.09	0.26	11.35	30	Pass
NVNT	n40	5795	Ant1	9.92	0.76	10.68	30	Pass
NVNT	ac20	5180	Ant1	12.67	0.52	13.19	24	Pass
NVNT	ac20	5200	Ant1	12.73	0.46	13.19	24	Pass
NVNT	ac20	5240	Ant1	13.25	0.41	13.66	24	Pass
NVNT	ac20	5745	Ant1	11.4	0.38	11.78	30	Pass
NVNT	ac20	5785	Ant1	10.41	0.3	10.71	30	Pass
NVNT	ac20	5825	Ant1	10.24	0.38	10.62	30	Pass
NVNT	ac40	5190	Ant1	9.43	0.63	10.06	24	Pass
NVNT	ac40	5230	Ant1	9.29	0.63	9.92	24	Pass
NVNT	ac40	5755	Ant1	10.8	0.73	11.53	30	Pass
NVNT	ac40	5795	Ant1	9.82	0.36	10.18	30	Pass
NVNT	ax20	5180	Ant1	13.22	0.46	13.68	24	Pass
NVNT	ax20	5200	Ant1	12.43	1.52	13.95	24	Pass
NVNT	ax20	5240	Ant1	13.2	0.77	13.97	24	Pass
NVNT	ax20	5745	Ant1	11.08	0.57	11.65	30	Pass
NVNT	ax20	5785	Ant1	10.39	0.54	10.93	30	Pass
NVNT	ax20	5825	Ant1	10.25	0.9	11.15	30	Pass
NVNT	ax40	5190	Ant1	8.89	0.77	9.66	24	Pass
NVNT	ax40	5230	Ant1	9.21	1.23	10.44	24	Pass
NVNT	ax40	5755	Ant1	10.56	0.38	10.94	30	Pass
NVNT	ax40	5795	Ant1	9.91	0.95	10.86	30	Pass

Appendix C -26dB Bandwidth

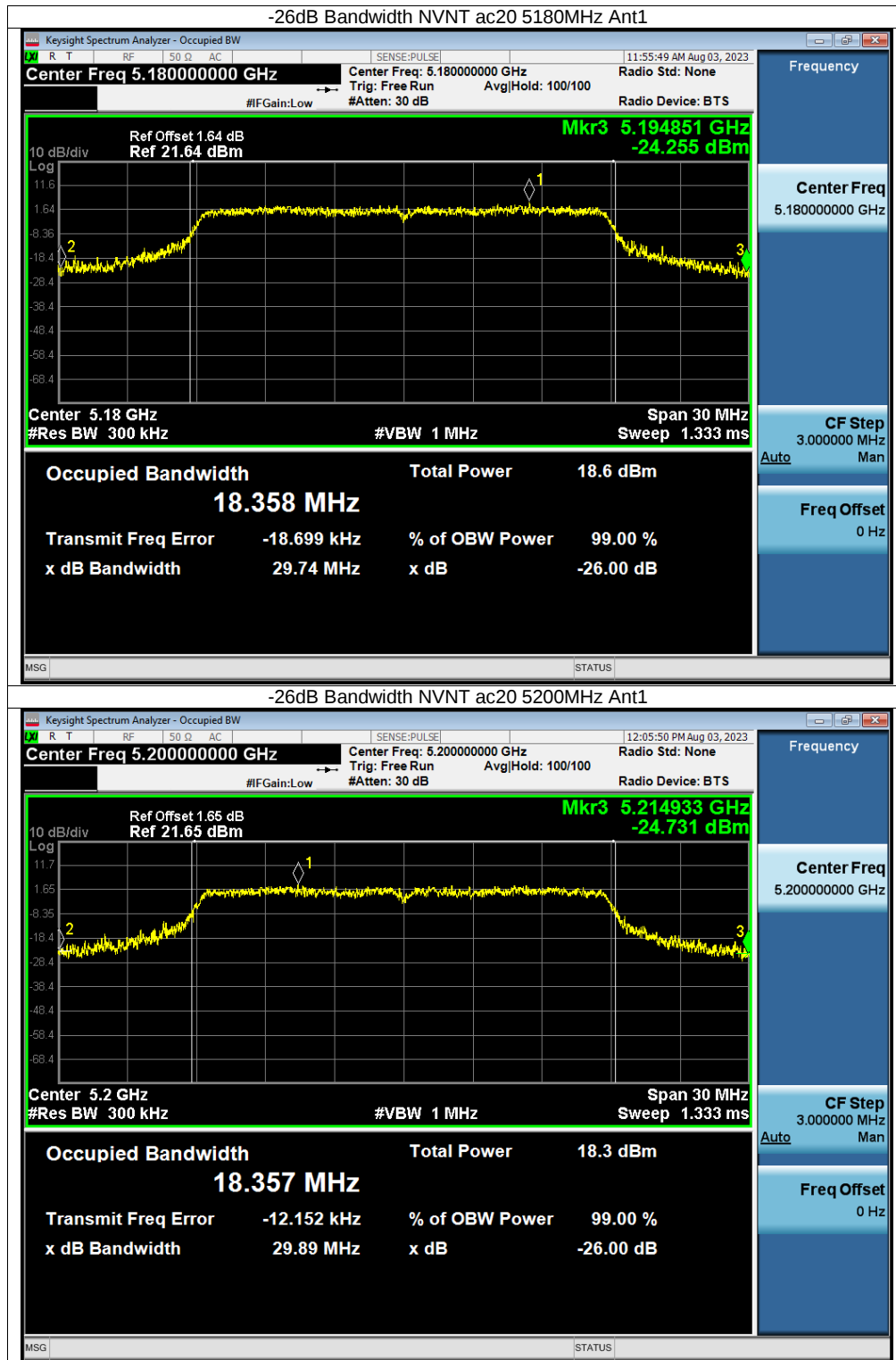
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	29.69	0.5	Pass
NVNT	a	5200	Ant1	29.953	0.5	Pass
NVNT	a	5240	Ant1	29.008	0.5	Pass
NVNT	n20	5180	Ant1	29.852	0.5	Pass
NVNT	n20	5200	Ant1	29.342	0.5	Pass
NVNT	n20	5240	Ant1	27.797	0.5	Pass
NVNT	n40	5190	Ant1	54.999	0.5	Pass
NVNT	n40	5230	Ant1	44.772	0.5	Pass
NVNT	ac20	5180	Ant1	29.74	0.5	Pass
NVNT	ac20	5200	Ant1	29.891	0.5	Pass
NVNT	ac20	5240	Ant1	29.166	0.5	Pass
NVNT	ac40	5190	Ant1	45.339	0.5	Pass
NVNT	ac40	5230	Ant1	45.557	0.5	Pass
NVNT	ax20	5180	Ant1	28.11	0.5	Pass
NVNT	ax20	5200	Ant1	29.249	0.5	Pass
NVNT	ax20	5240	Ant1	26.562	0.5	Pass
NVNT	ax40	5190	Ant1	44.321	0.5	Pass
NVNT	ax40	5230	Ant1	43.026	0.5	Pass

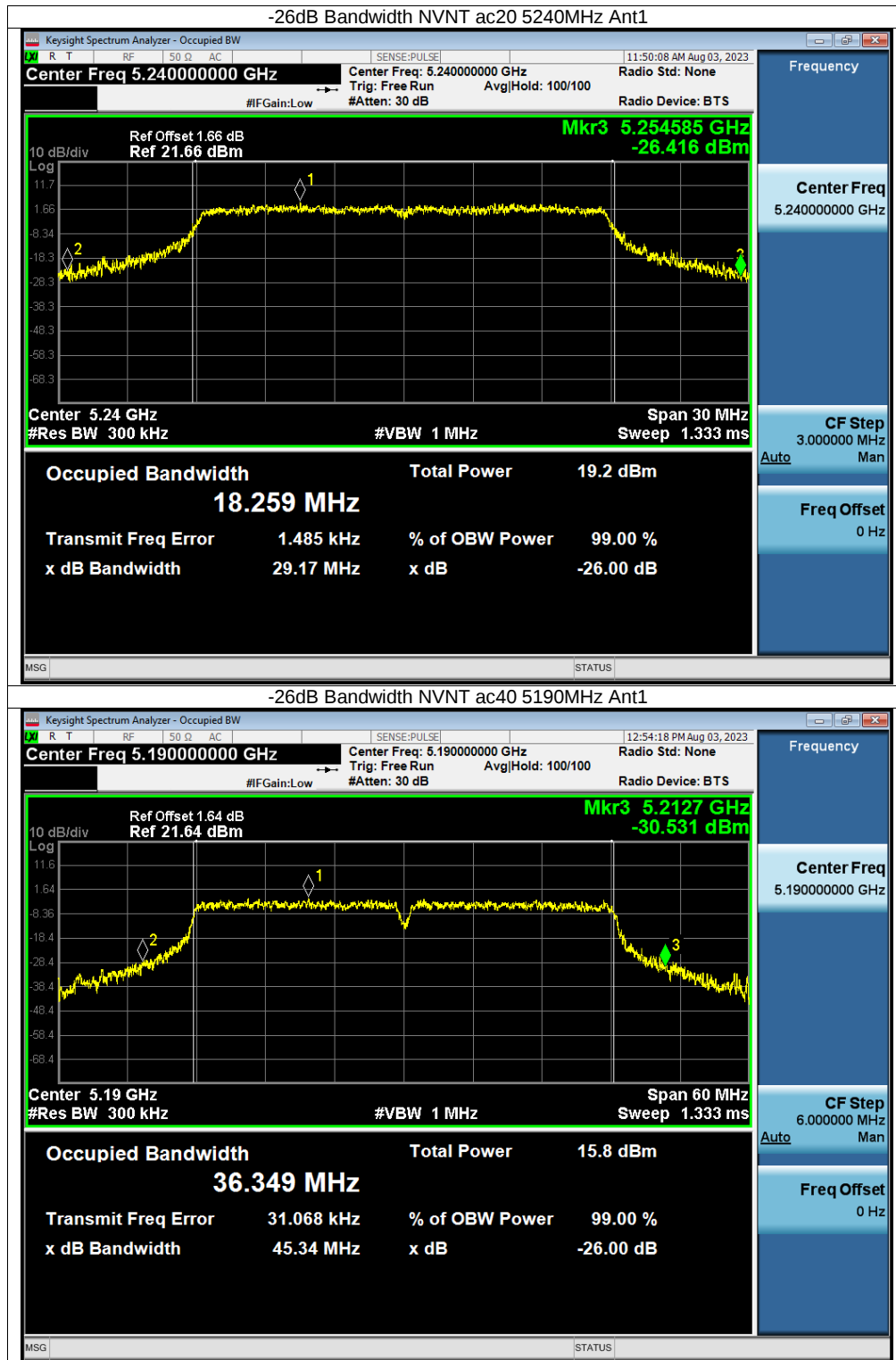


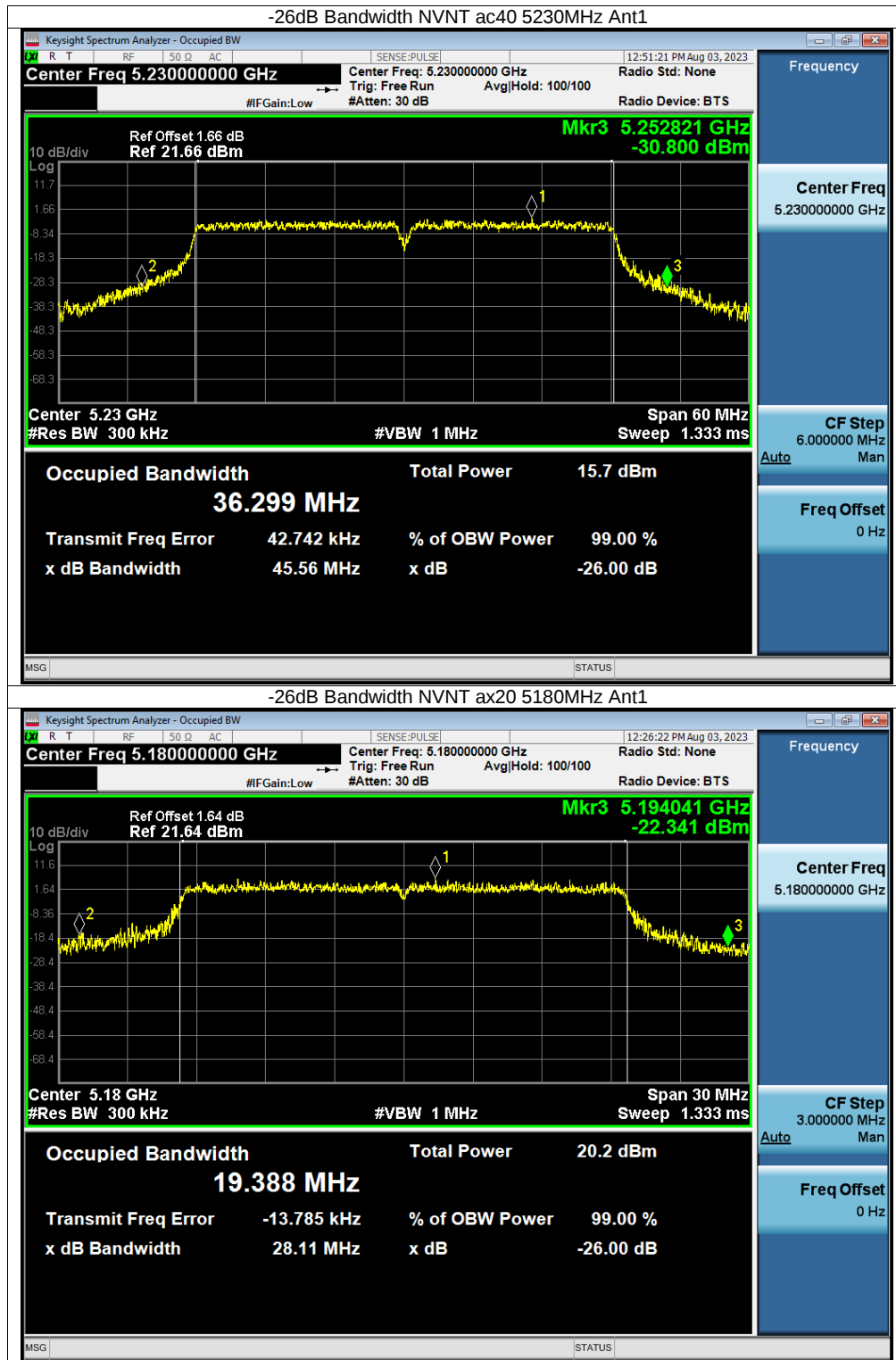


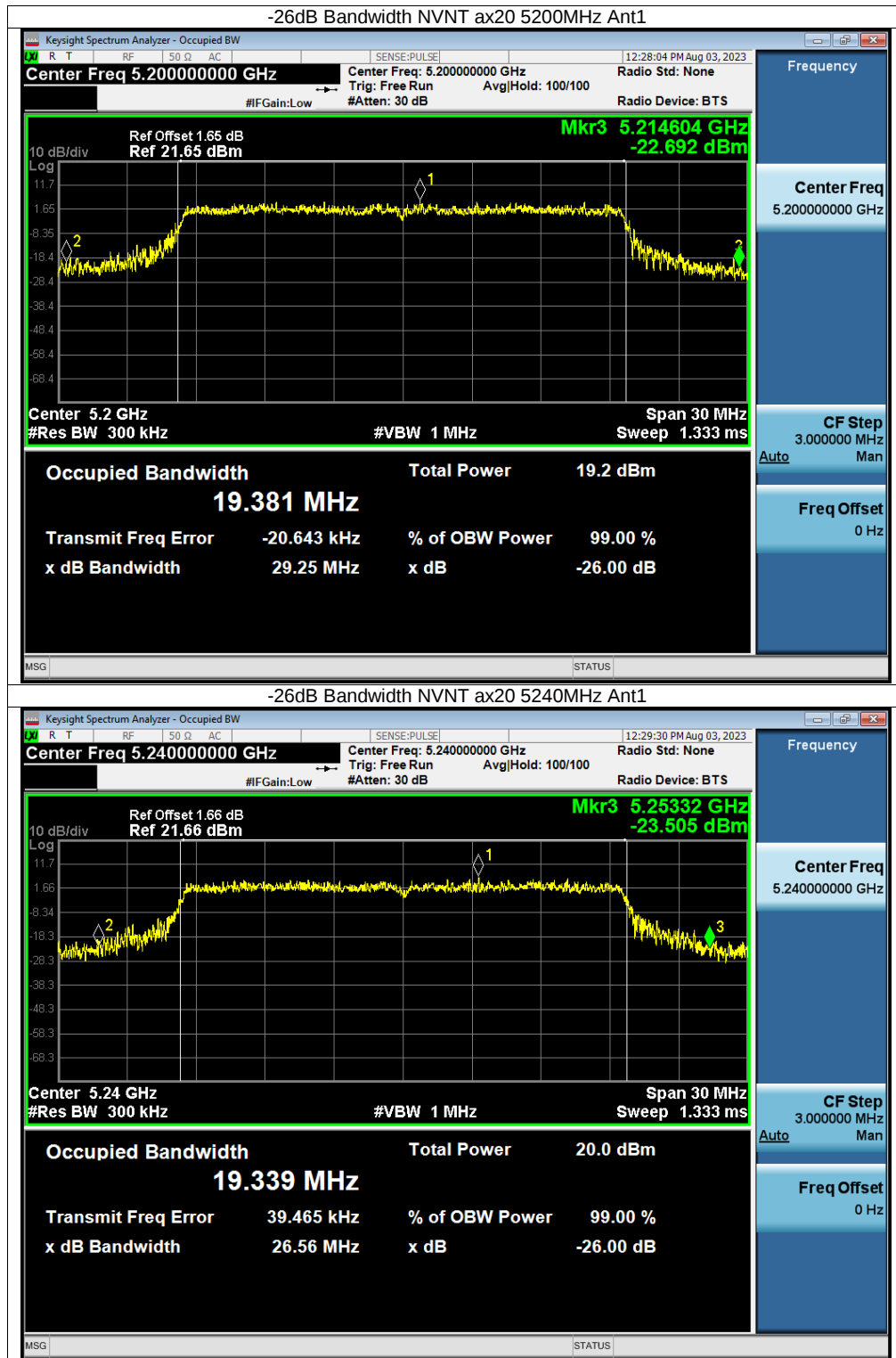








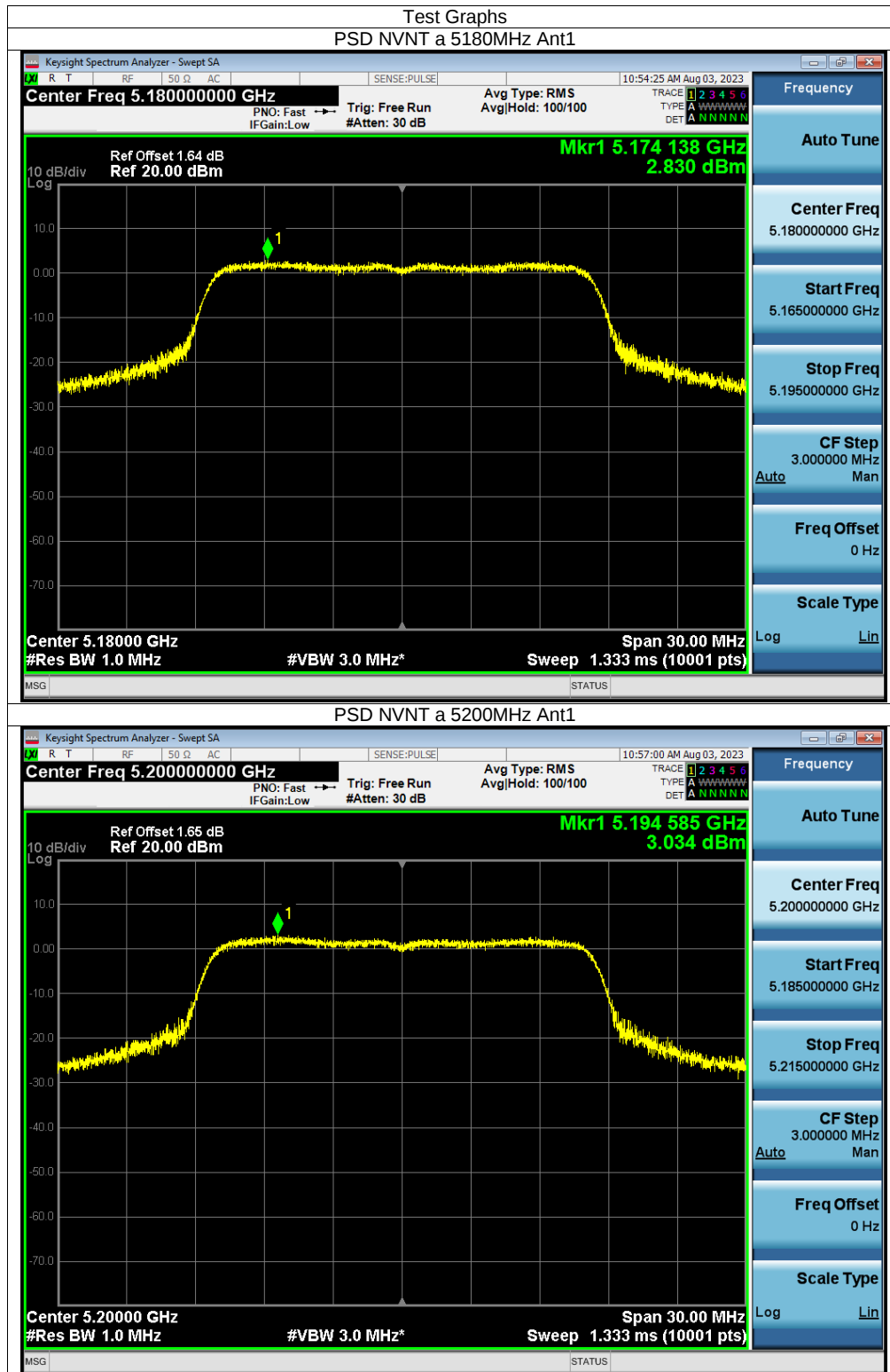


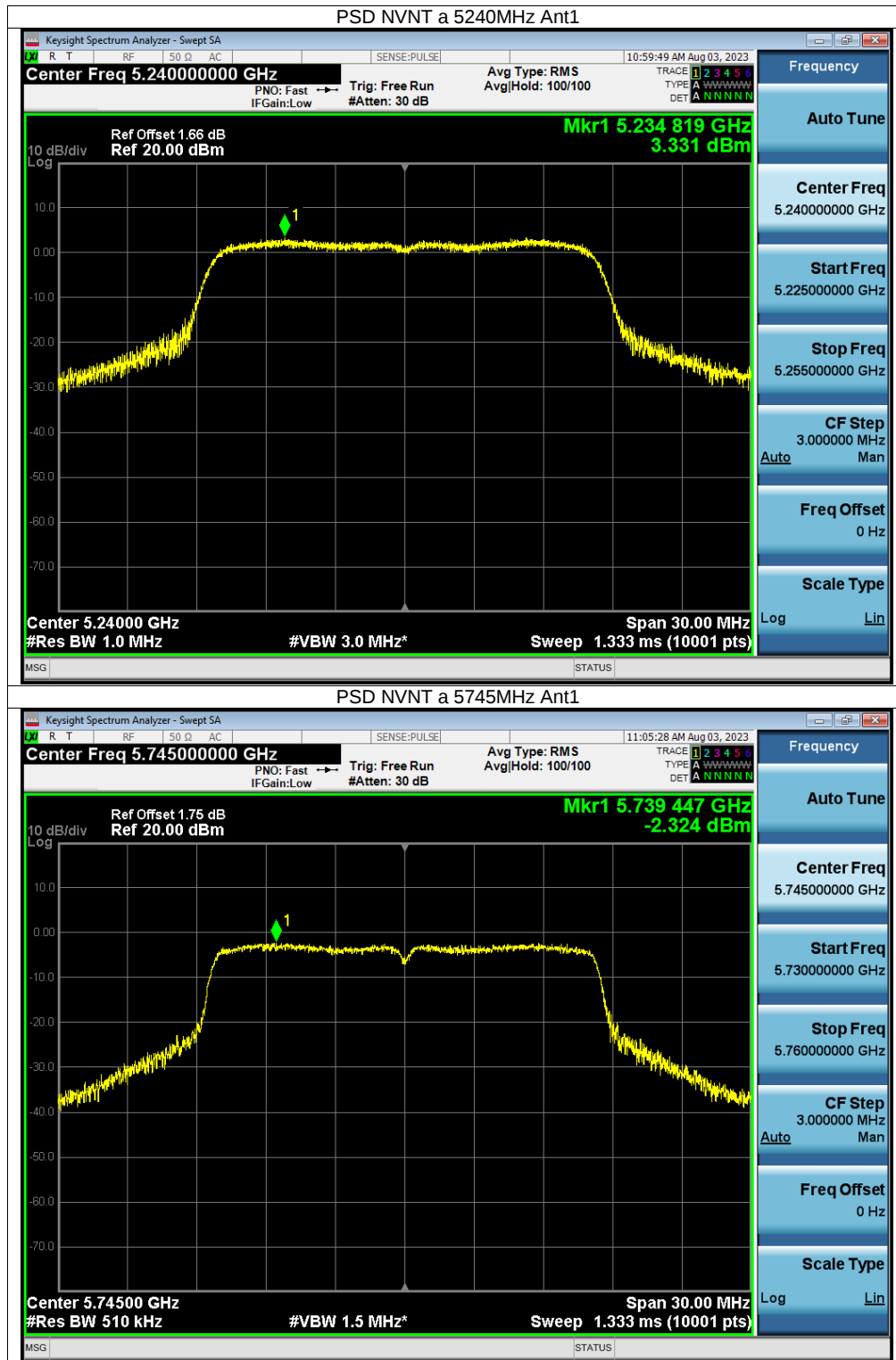


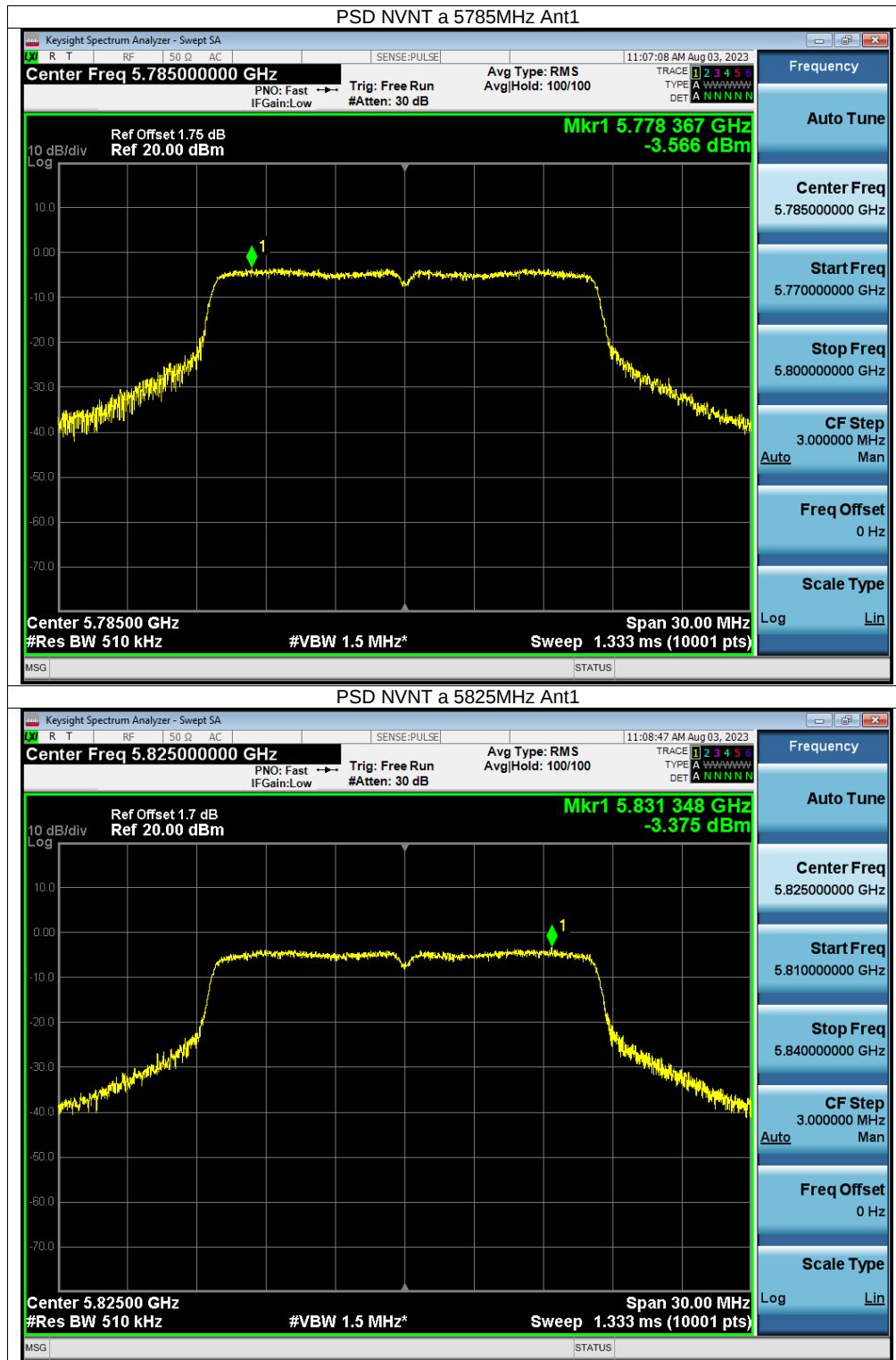


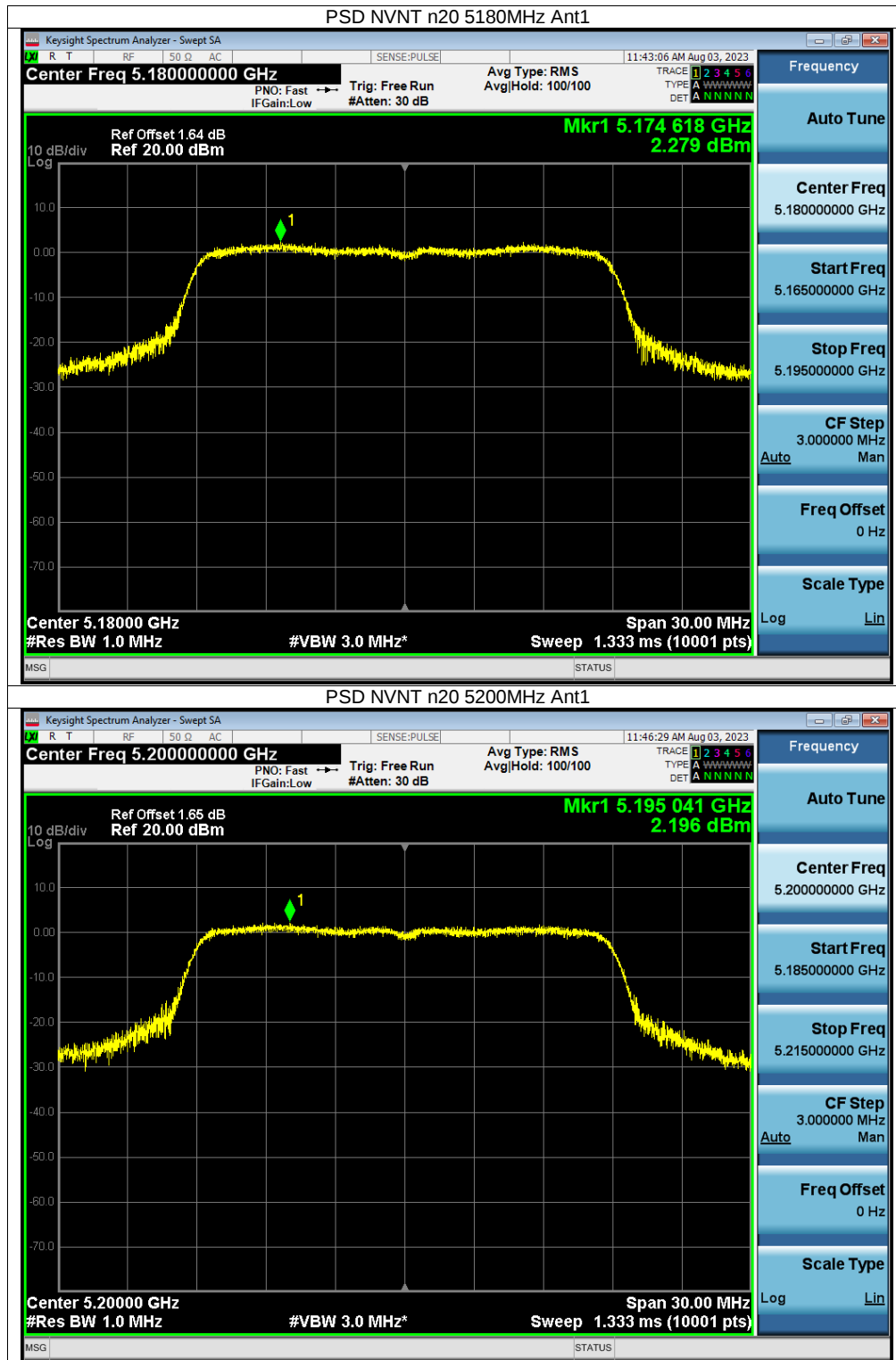
Appendix D Maximum Power Spectral Density Level

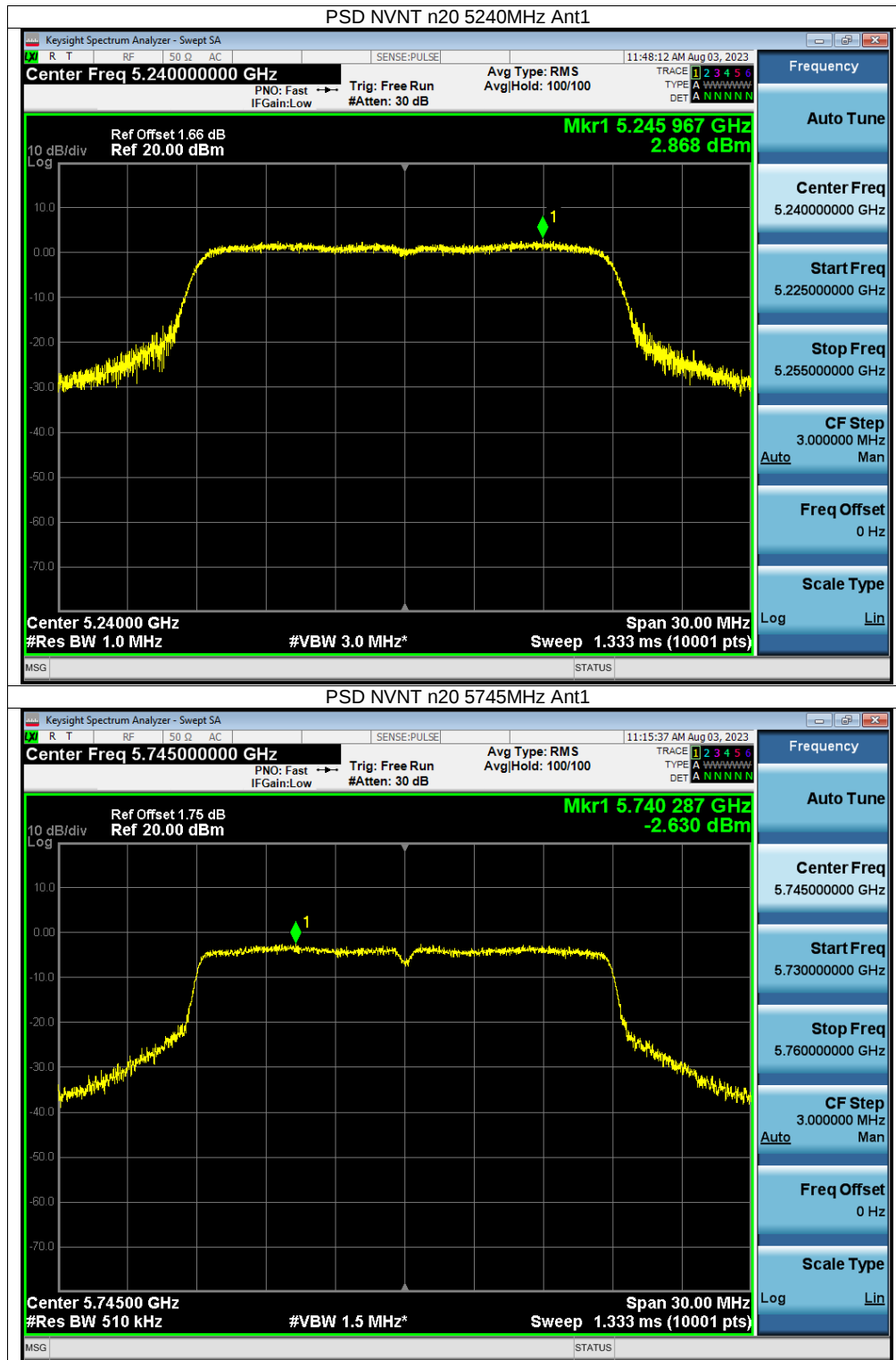
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.83	0.41	3.24	11	Pass
NVNT	a	5200	Ant1	3.03	0.45	3.48	11	Pass
NVNT	a	5240	Ant1	3.33	0.12	3.45	11	Pass
NVNT	a	5745	Ant1	-2.32	0.41	-1.91	30	Pass
NVNT	a	5785	Ant1	-3.57	0.4	-3.17	30	Pass
NVNT	a	5825	Ant1	-3.38	0.47	-2.91	30	Pass
NVNT	n20	5180	Ant1	2.28	0.41	2.69	11	Pass
NVNT	n20	5200	Ant1	2.2	0.27	2.47	11	Pass
NVNT	n20	5240	Ant1	2.87	0.55	3.42	11	Pass
NVNT	n20	5745	Ant1	-2.63	0.55	-2.08	30	Pass
NVNT	n20	5785	Ant1	-3.58	0.13	-3.45	30	Pass
NVNT	n20	5825	Ant1	-3.52	0.22	-3.3	30	Pass
NVNT	n40	5190	Ant1	-3.99	1.03	-2.96	11	Pass
NVNT	n40	5230	Ant1	-4.79	0.74	-4.05	11	Pass
NVNT	n40	5755	Ant1	-6.01	0.26	-5.75	30	Pass
NVNT	n40	5795	Ant1	-6.91	0.76	-6.15	30	Pass
NVNT	ac20	5180	Ant1	1.93	0.52	2.45	11	Pass
NVNT	ac20	5200	Ant1	1.73	0.46	2.19	11	Pass
NVNT	ac20	5240	Ant1	2.6	0.41	3.01	11	Pass
NVNT	ac20	5745	Ant1	-2.56	0.38	-2.18	30	Pass
NVNT	ac20	5785	Ant1	-3.22	0.3	-2.92	30	Pass
NVNT	ac20	5825	Ant1	-3.67	0.38	-3.29	30	Pass
NVNT	ac40	5190	Ant1	-4.41	0.63	-3.78	11	Pass
NVNT	ac40	5230	Ant1	-4.23	0.63	-3.6	11	Pass
NVNT	ac40	5755	Ant1	-6.21	0.73	-5.48	30	Pass
NVNT	ac40	5795	Ant1	-6.97	0.36	-6.61	30	Pass
NVNT	ax20	5180	Ant1	2.32	0.46	2.78	11	Pass
NVNT	ax20	5200	Ant1	1.59	1.52	3.11	11	Pass
NVNT	ax20	5240	Ant1	2.21	0.77	2.98	11	Pass
NVNT	ax20	5745	Ant1	-2.9	0.57	-2.33	30	Pass
NVNT	ax20	5785	Ant1	-3.66	0.54	-3.12	30	Pass
NVNT	ax20	5825	Ant1	-3.87	0.9	-2.97	30	Pass
NVNT	ax40	5190	Ant1	-4.45	0.77	-3.68	11	Pass
NVNT	ax40	5230	Ant1	-4.55	1.23	-3.32	11	Pass
NVNT	ax40	5755	Ant1	-6.36	0.38	-5.98	30	Pass
NVNT	ax40	5795	Ant1	-7.37	0.95	-6.42	30	Pass



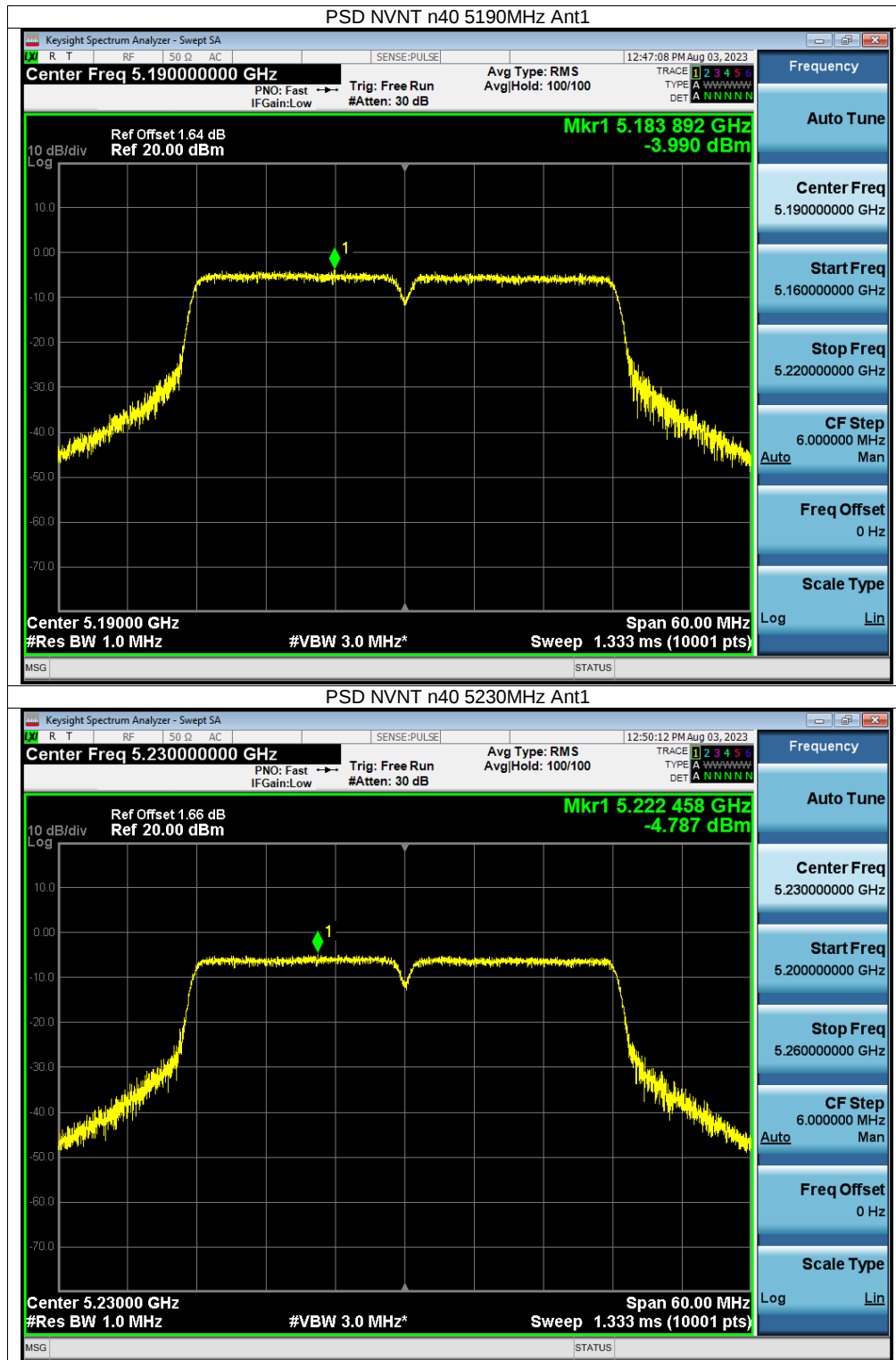


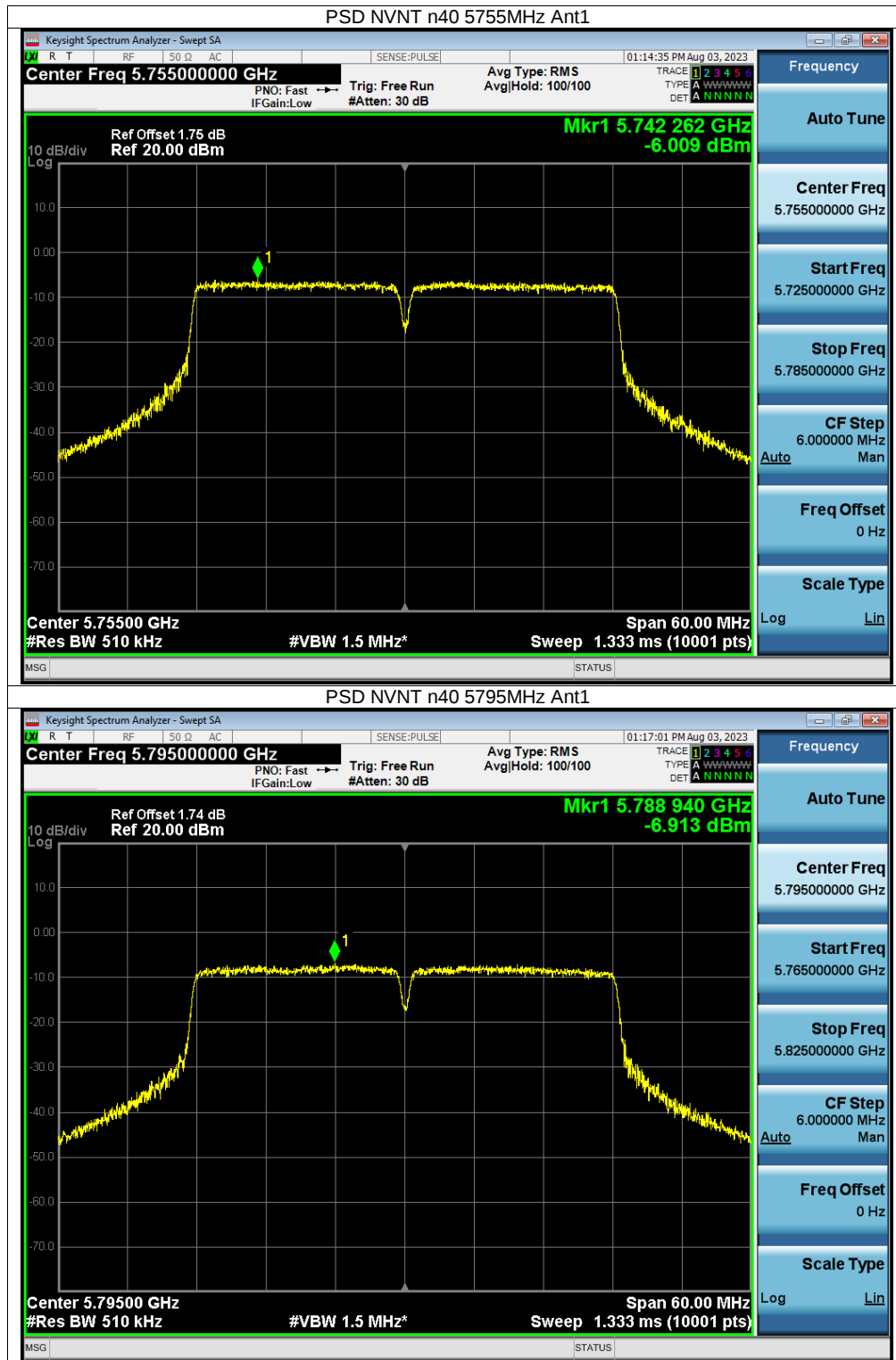


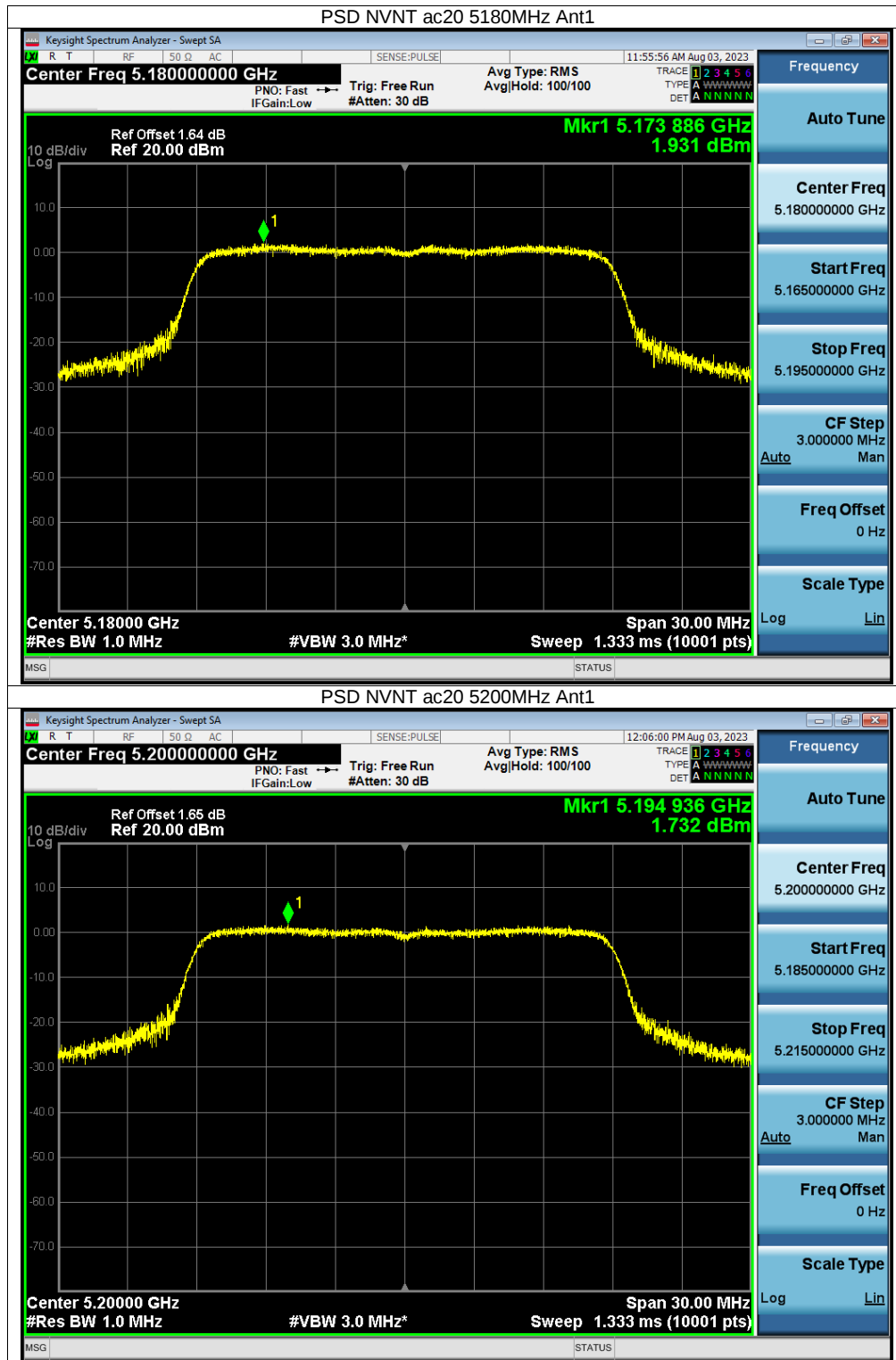


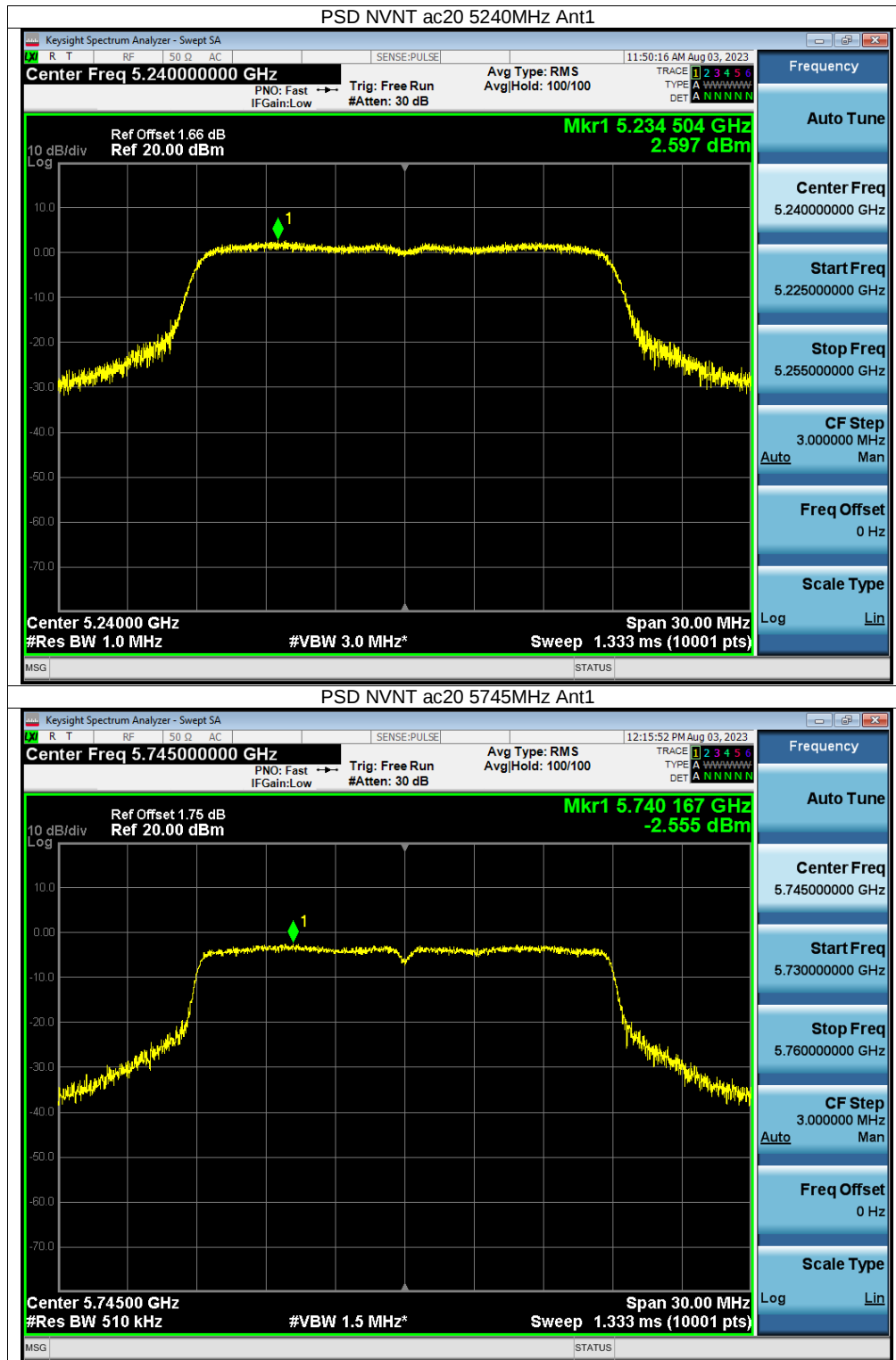


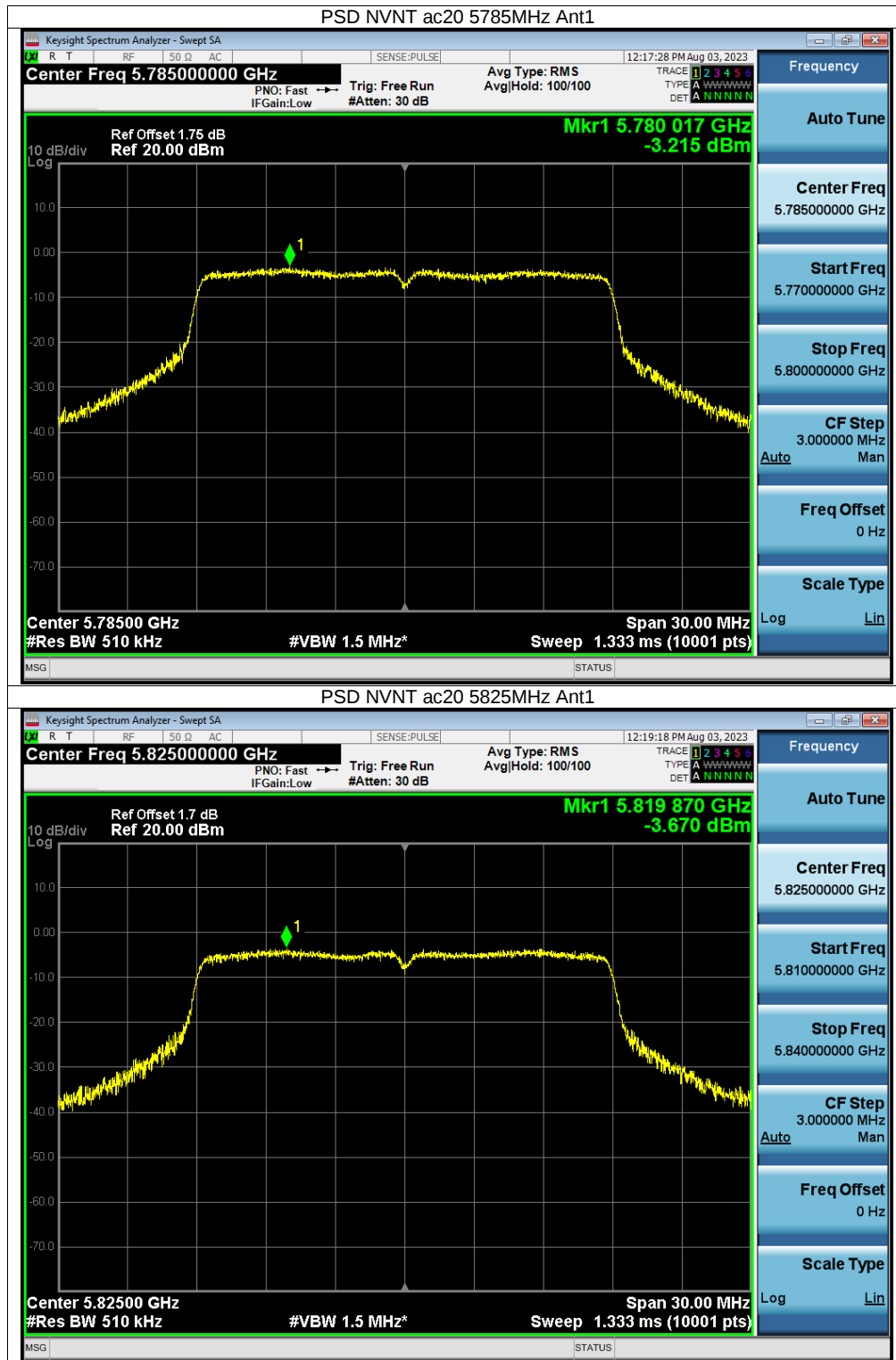


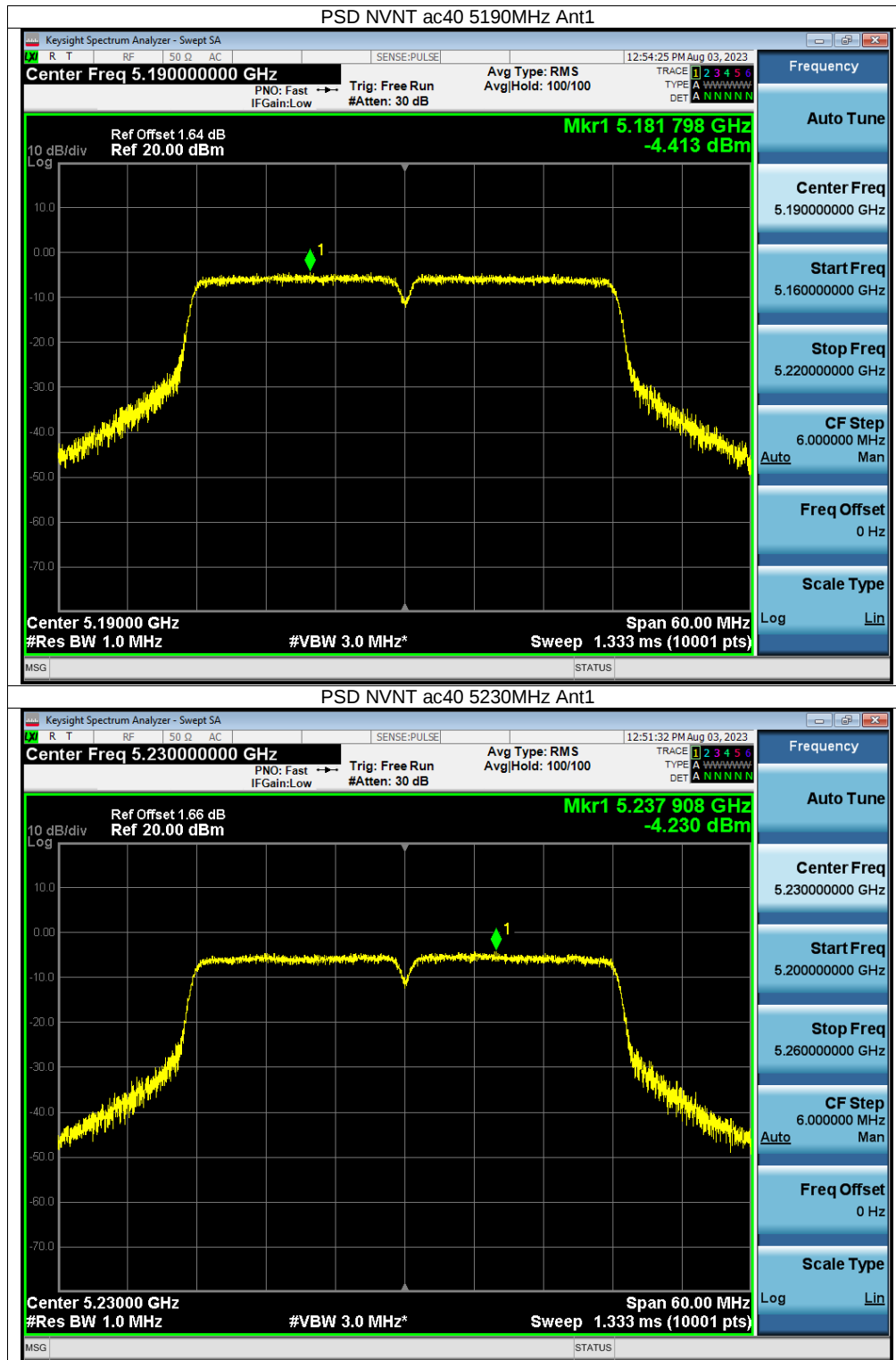


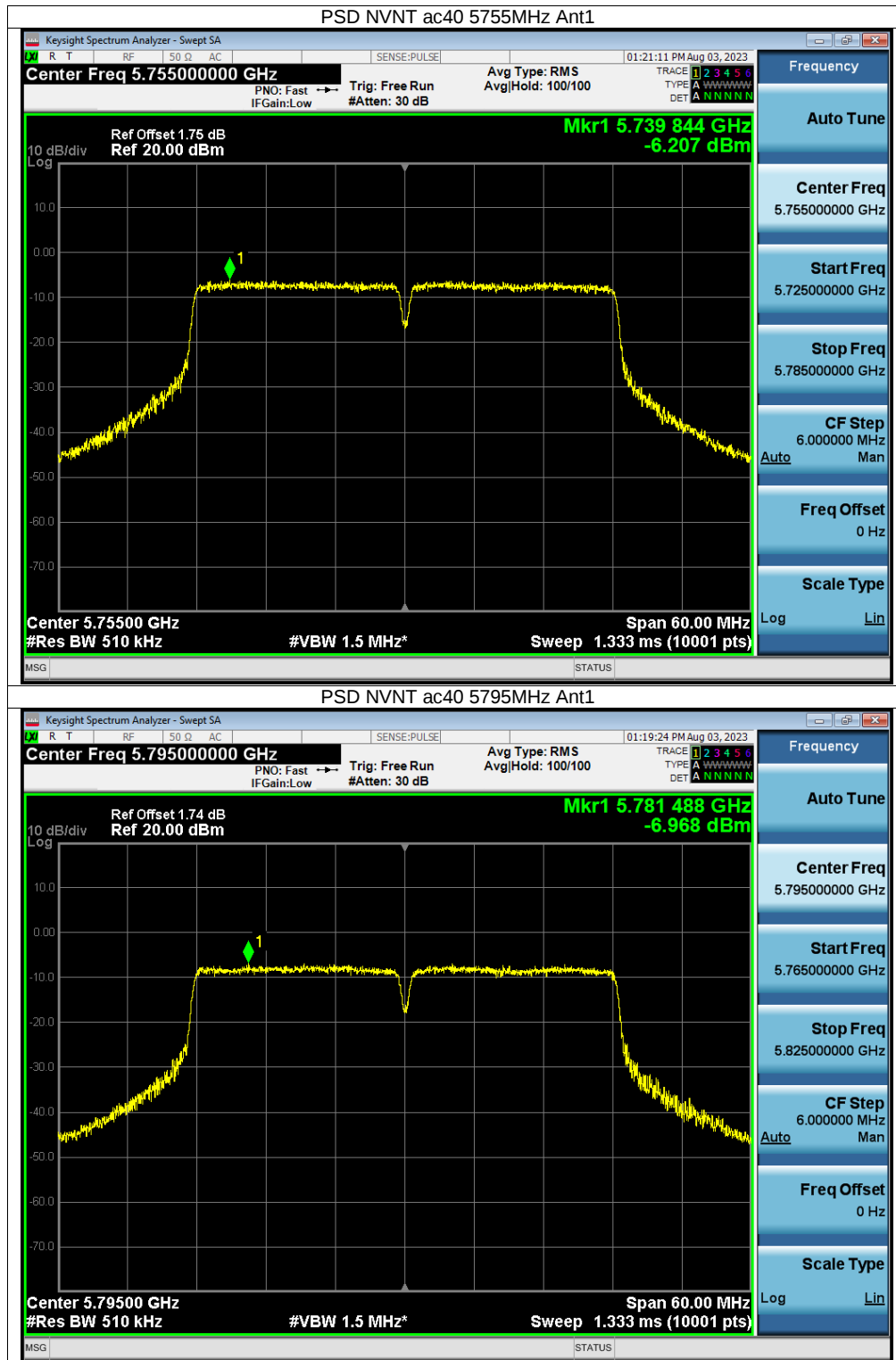


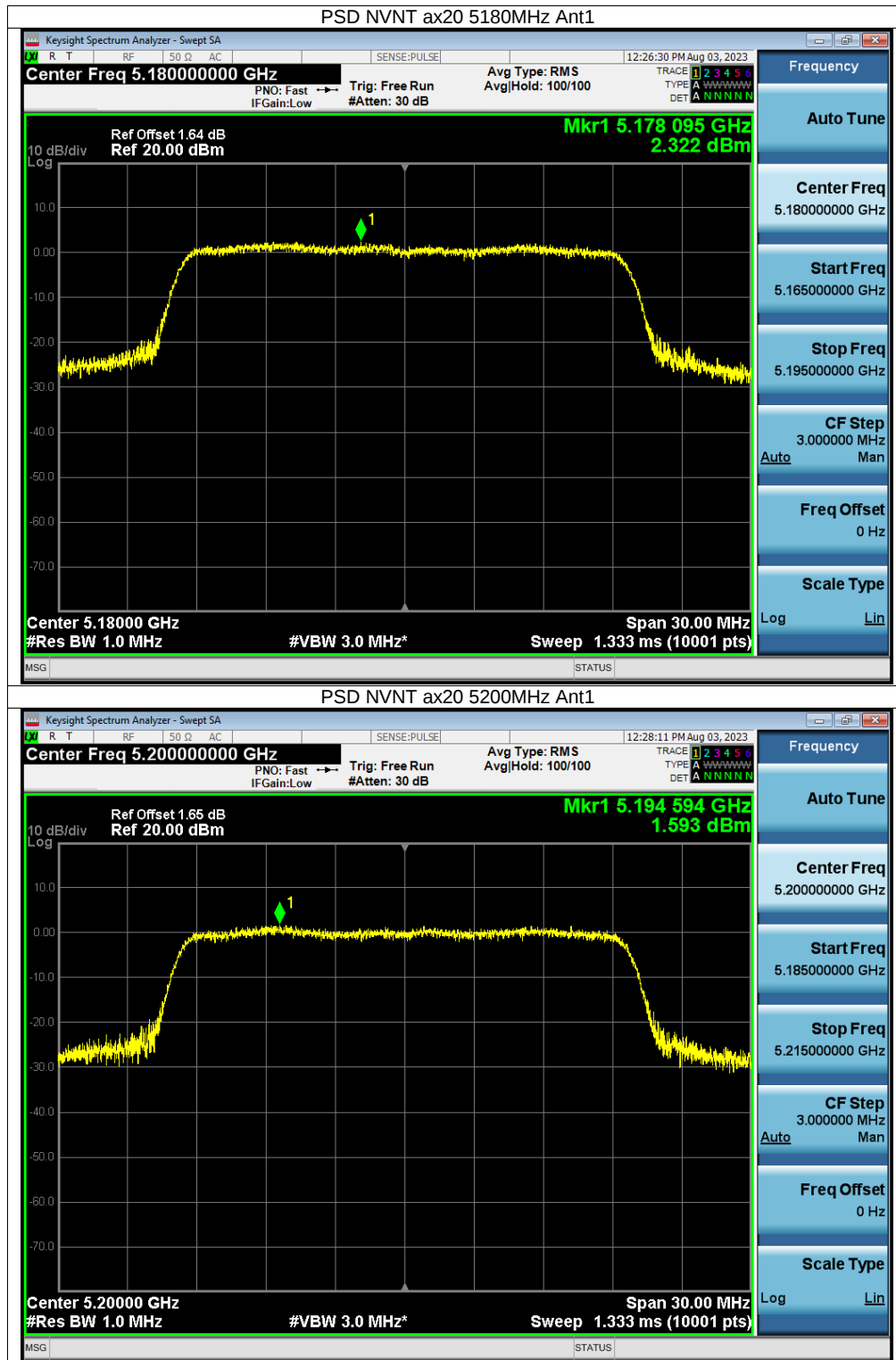


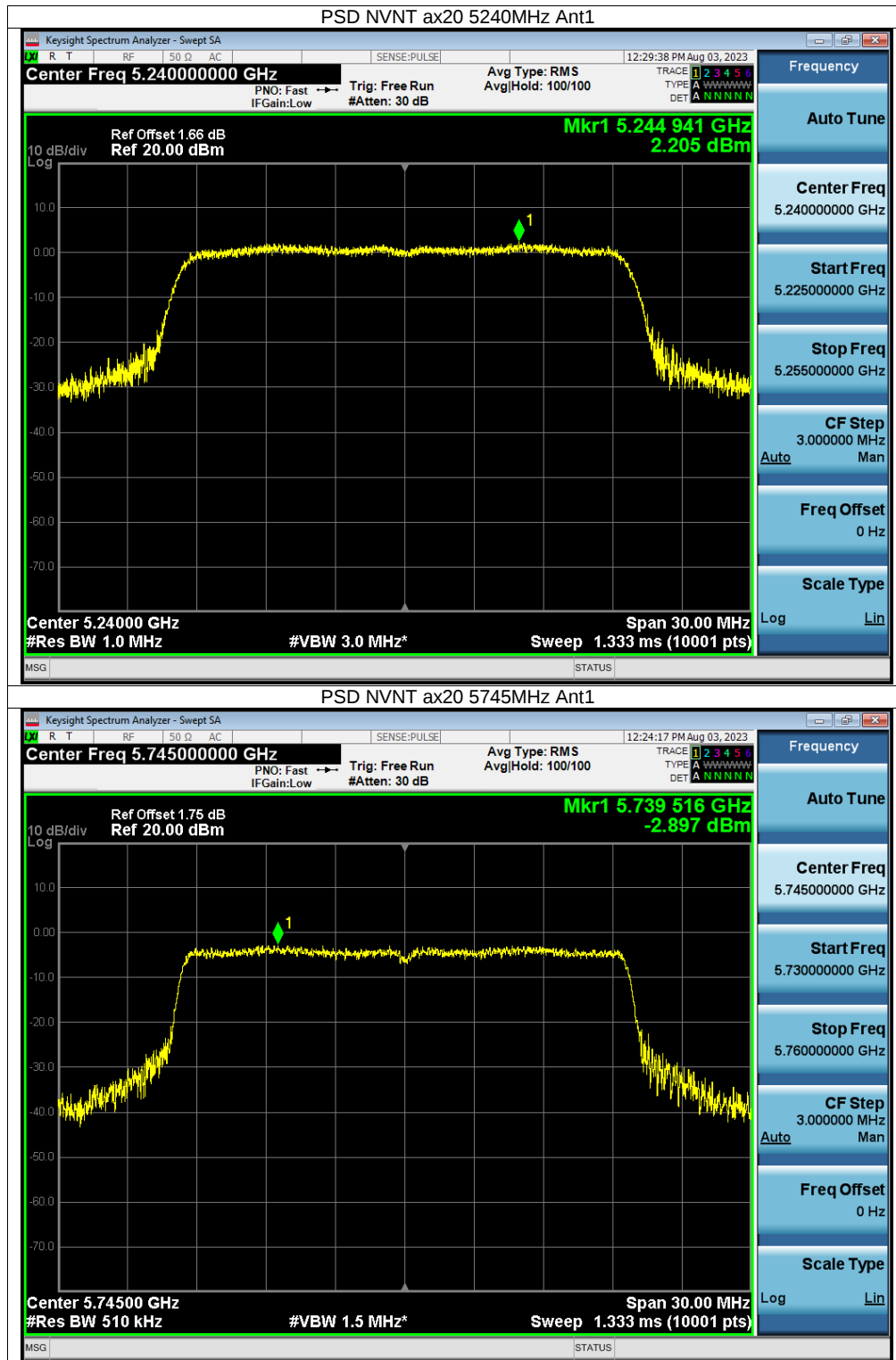


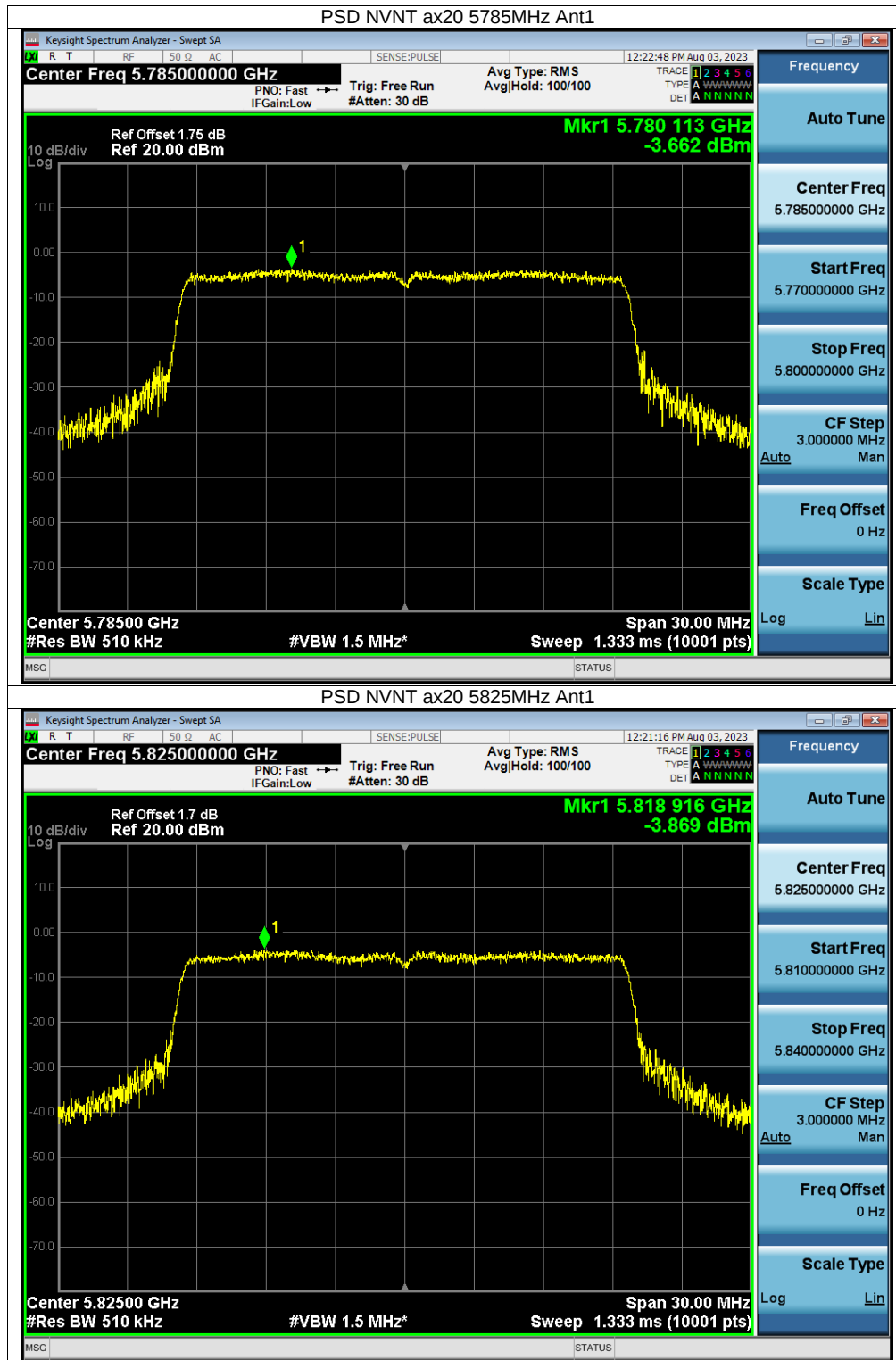


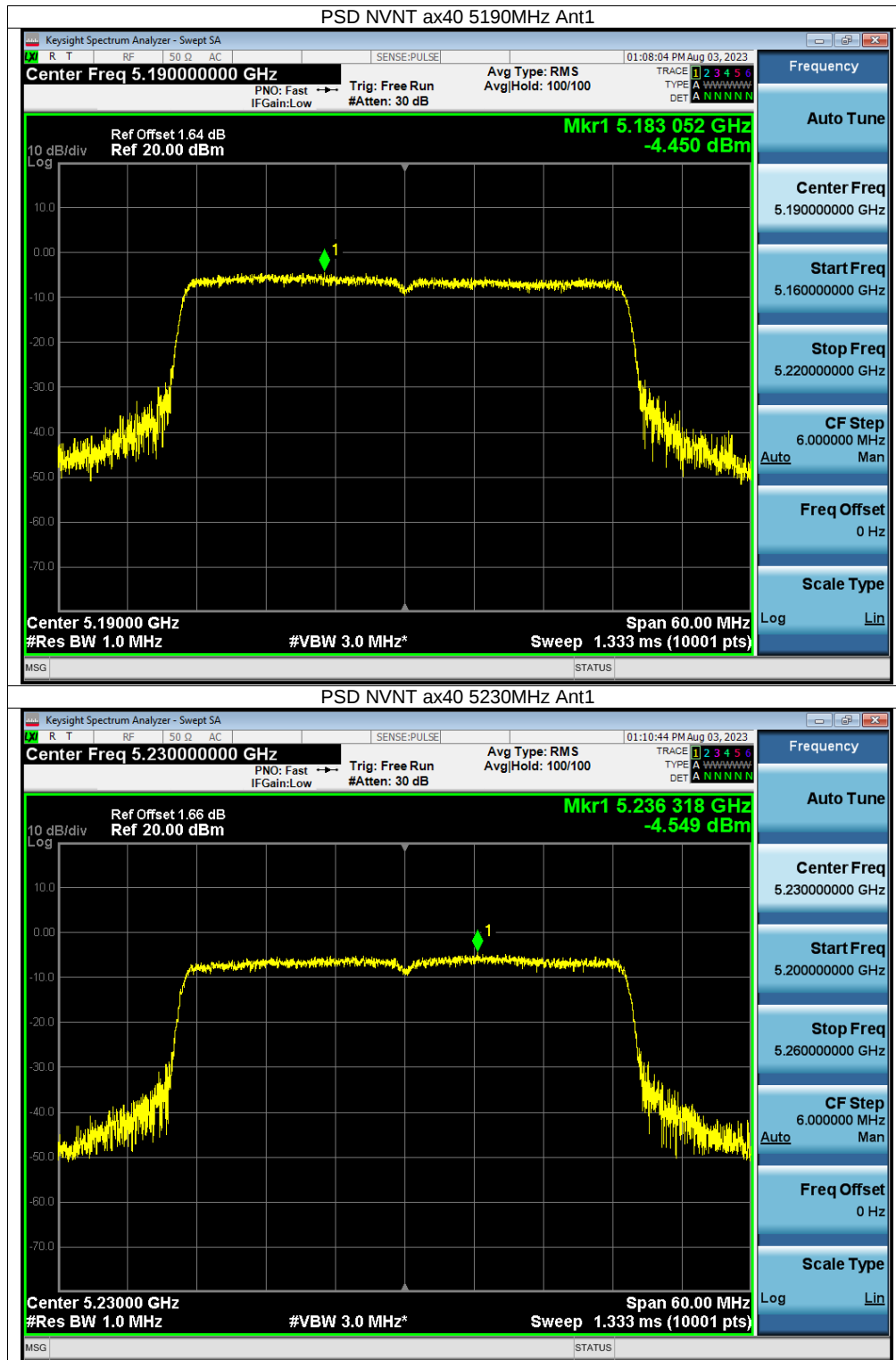


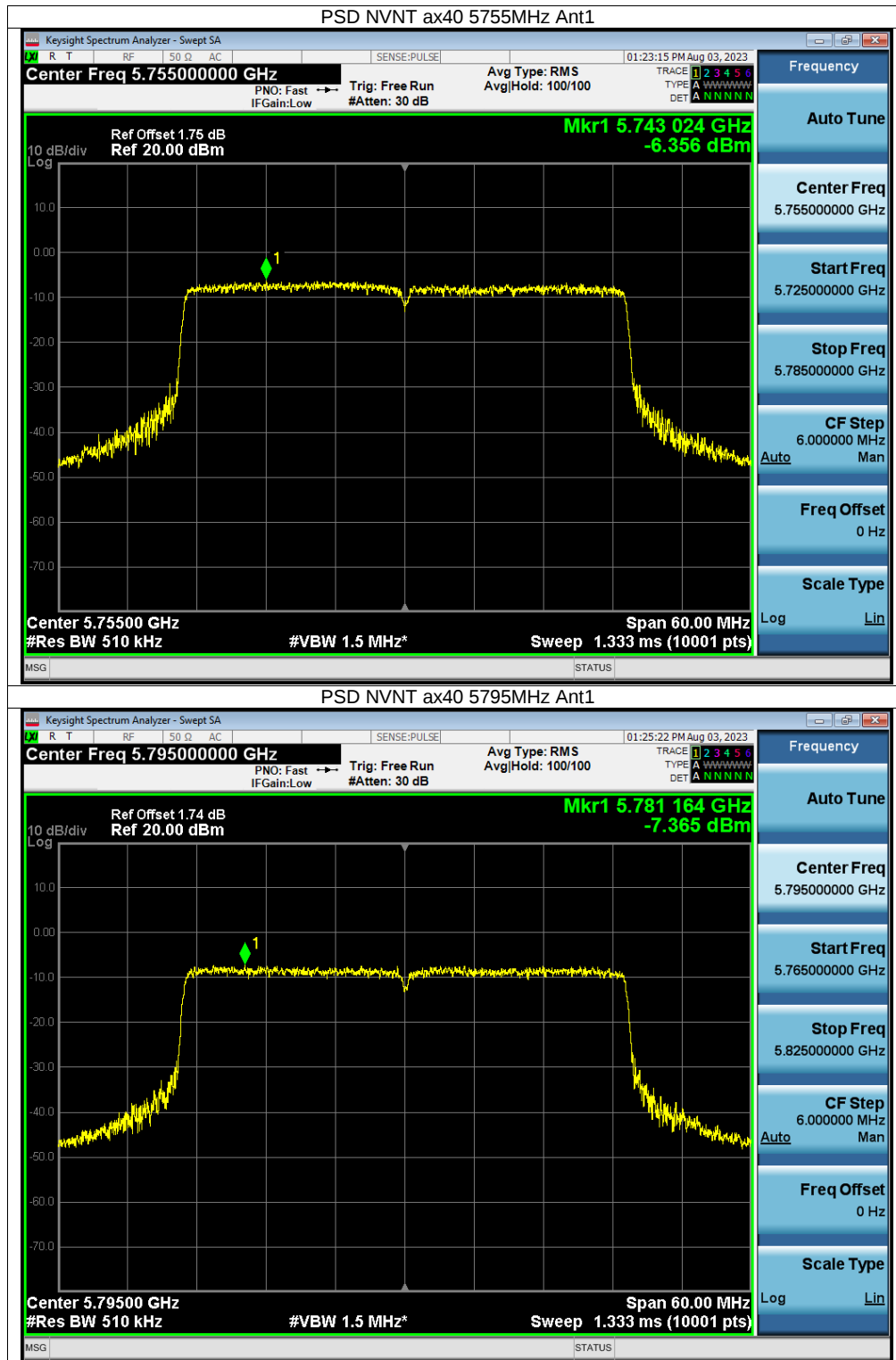












Appendix E Frequency Stability

Condition	Mode	Time (mins)	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 102V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 120V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	a	0	5180	Ant1	5180	0	0	25	Pass
30C 120V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	a	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	a	0	5200	Ant1	5200	0	0	25	Pass
20C 120V	a	0	5200	Ant1	5200	0	0	25	Pass
20C 138V	a	0	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-10C 120V	a	0	5200	Ant1	5200	0	0	25	Pass
0C 120V	a	0	5200	Ant1	5200	0	0	25	Pass
10C 120V	a	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	a	0	5200	Ant1	5200	0	0	25	Pass
40C 120V	a	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	a	0	5240	Ant1	5230	0	0	25	Pass
20C 138V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	a	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	a	0	5745	Ant1	5745	0	0	25	Pass
20C 120V	a	0	5745	Ant1	5745	0	0	25	Pass
20C 138V	a	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-10C 120V	a	0	5745	Ant1	5745	0	0	25	Pass
0C 120V	a	0	5745	Ant1	5745	0	0	25	Pass
10C 120V	a	0	5745	Ant1	5745	0	0	25	Pass
30C 120V	a	0	5745	Ant1	5745	0	0	25	Pass
40C 120V	a	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 102V	a	0	5785	Ant1	5784.96	-40000	-6.91	25	Pass
20C 120V	a	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 138V	a	0	5785	Ant1	5785	0	0	25	Pass
-10C 120V	a	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
0C 120V	a	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
10C 120V	a	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
30C 120V	a	0	5785	Ant1	5784.96	-40000	-6.91	25	Pass
40C 120V	a	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 102V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 120V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 138V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
-10C 120V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
0C 120V	a	0	5825	Ant1	5825	0	0	25	Pass
10C 120V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
30C 120V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40C 120V	a	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 102V	n20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	n20	0	5180	Ant1	5180	0	0	25	Pass
20C 138V	n20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	n20	0	5180	Ant1	5180	0	0	25	Pass
0C 120V	n20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	n20	0	5180	Ant1	5180	0	0	25	Pass
30C 120V	n20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	n20	0	5180	Ant1	5180	0	0	25	Pass
20C 102V	n20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 120V	n20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	n20	0	5200	Ant1	5200	0	0	25	Pass
-10C 120V	n20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
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30C 120V	n20	0	5200	Ant1	5200	0	0	25	Pass
40C 120V	n20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	n20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	n20	0	5240	Ant1	5230	0	0	25	Pass
20C 138V	n20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	n20	0	5240	Ant1	5230	0	0	25	Pass
0C 120V	n20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	n20	0	5240	Ant1	5230	0	0	25	Pass
30C 120V	n20	0	5240	Ant1	5230	0	0	25	Pass
40C 120V	n20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	n20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 120V	n20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 138V	n20	0	5745	Ant1	5745	0	0	25	Pass
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10C 120V	n20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
30C 120V	n20	0	5745	Ant1	5745	0	0	25	Pass
40C 120V	n20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 102V	n20	0	5785	Ant1	5785	0	0	25	Pass
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-10C 120V	n20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
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10C 120V	n20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
30C 120V	n20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
40C 120V	n20	0	5785	Ant1	5785	0	0	25	Pass
20C 102V	n20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 120V	n20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 138V	n20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
-10C 120V	n20	0	5825	Ant1	5825	0	0	25	Pass
0C 120V	n20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
10C 120V	n20	0	5825	Ant1	5825	0	0	25	Pass
30C 120V	n20	0	5825	Ant1	5825	0	0	25	Pass
40C 120V	n20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 102V	n40	0	5190	Ant1	5190	0	0	25	Pass
20C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	n40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-10C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
0C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
10C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	n40	0	5190	Ant1	5190	0	0	25	Pass
40C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 102V	n40	0	5230	Ant1	5230	0	0	25	Pass
20C 120V	n40	0	5230	Ant1	5230	0	0	25	Pass
20C 138V	n40	0	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-10C 120V	n40	0	5230	Ant1	5230	0	0	25	Pass
0C 120V	n40	0	5230	Ant1	5230	0	0	25	Pass
10C 120V	n40	0	5230	Ant1	5230	0	0	25	Pass
30C 120V	n40	0	5230	Ant1	5230	0	0	25	Pass
40C 120V	n40	0	5230	Ant1	5230	0	0	25	Pass
20C 102V	n40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 120V	n40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 138V	n40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
-10C 120V	n40	0	5755	Ant1	5755	0	0	25	Pass
0C 120V	n40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
10C 120V	n40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
30C 120V	n40	0	5755	Ant1	5755	0	0	25	Pass
40C 120V	n40	0	5755	Ant1	5755	0	0	25	Pass
20C 102V	n40	0	5795	Ant1	5795	0	0	25	Pass
20C 120V	n40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 138V	n40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass
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10C 120V	n40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass
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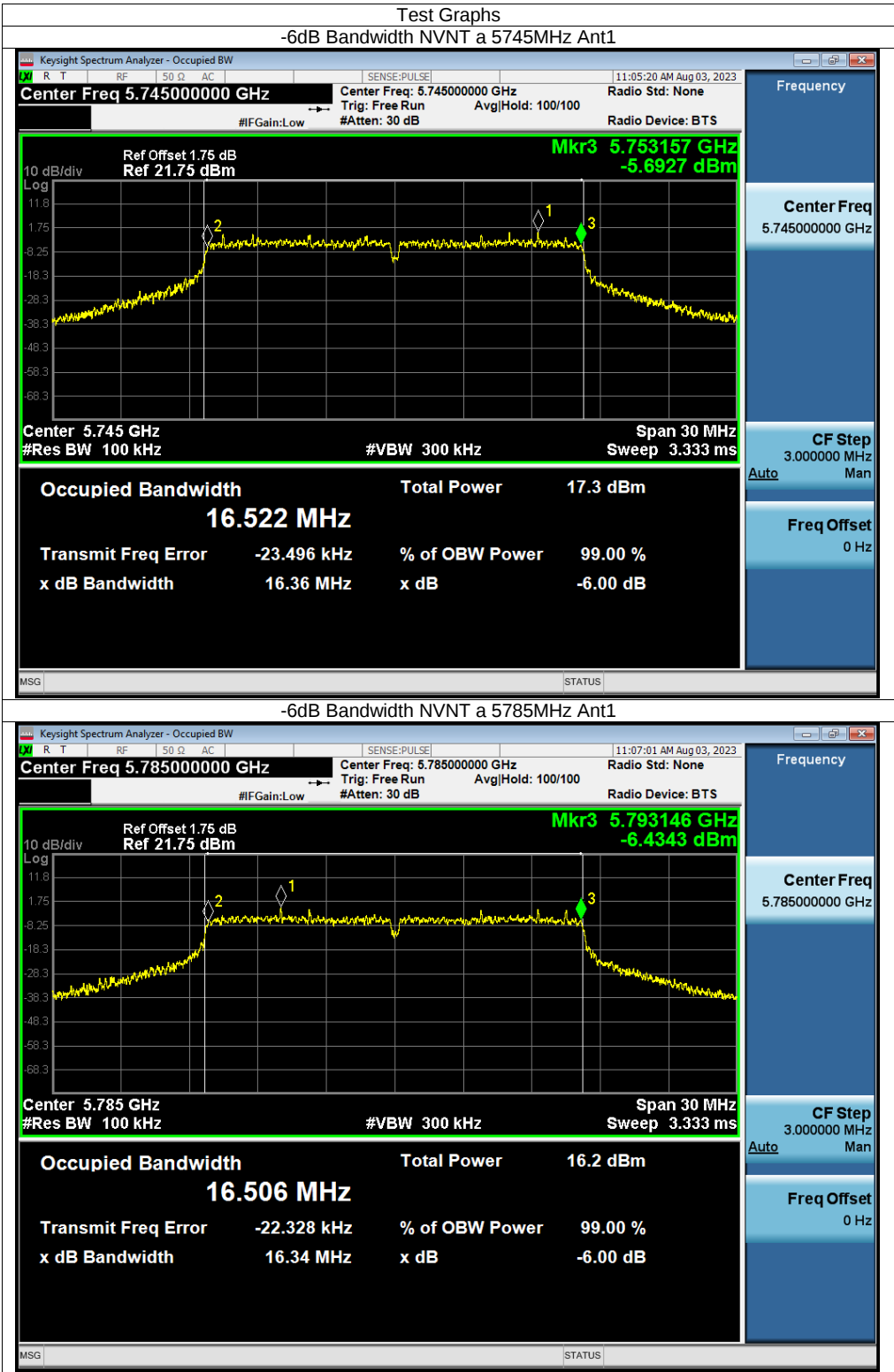
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20C 138V	ac20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
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0C 120V	ac20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	ac20	0	5180	Ant1	5180	0	0	25	Pass
30C 120V	ac20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	ac20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 120V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
0C 120V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
10C 120V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	ac20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	ac20	0	5240	Ant1	5230	0	0	25	Pass
20C 120V	ac20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 138V	ac20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
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30C 120V	ac20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	ac20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	ac20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 120V	ac20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 138V	ac20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
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10C 120V	ac20	0	5745	Ant1	5745	0	0	25	Pass
30C 120V	ac20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
40C 120V	ac20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 102V	ac20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 120V	ac20	0	5785	Ant1	5785	0	0	25	Pass
20C 138V	ac20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-10C 120V	ac20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
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10C 120V	ac20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
30C 120V	ac20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
40C 120V	ac20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 102V	ac20	0	5825	Ant1	5825	0	0	25	Pass
20C 120V	ac20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 138V	ac20	0	5825	Ant1	5825	0	0	25	Pass
-10C 120V	ac20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
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10C 120V	ac20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
30C 120V	ac20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40C 120V	ac20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 102V	ac40	0	5190	Ant1	5190	0	0	25	Pass
20C 120V	ac40	0	5190	Ant1	5190	0	0	25	Pass
20C 138V	ac40	0	5190	Ant1	5190	0	0	25	Pass
-10C 120V	ac40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
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10C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	25	Pass
30C 120V	ac40	0	5190	Ant1	5190	0	0	25	Pass
40C 120V	ac40	0	5190	Ant1	5190	0	0	25	Pass
20C 102V	ac40	0	5230	Ant1	5230	0	0	25	Pass
20C 120V	ac40	0	5230	Ant1	5230	0	0	25	Pass
20C 138V	ac40	0	5230	Ant1	5230	0	0	25	Pass
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0C 120V	ac40	0	5230	Ant1	5230	0	0	25	Pass
10C 120V	ac40	0	5230	Ant1	5230	0	0	25	Pass
30C 120V	ac40	0	5230	Ant1	5230	0	0	25	Pass
40C 120V	ac40	0	5230	Ant1	5230	0	0	25	Pass
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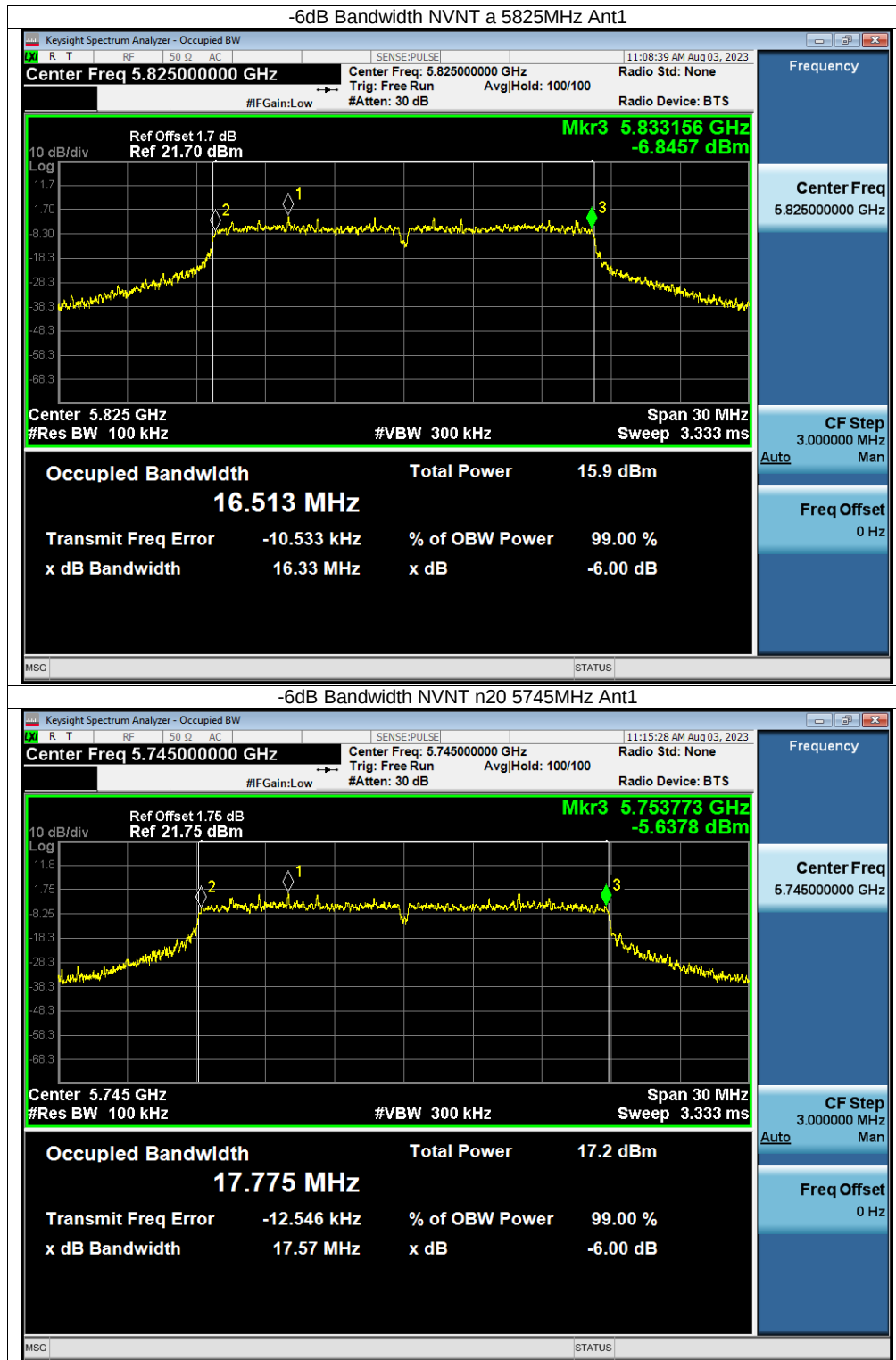
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10C 120V	ac40	0	5755	Ant1	5755	0	0	25	Pass
30C 120V	ac40	0	5755	Ant1	5755	0	0	25	Pass
40C 120V	ac40	0	5755	Ant1	5755	0	0	25	Pass
20C 102V	ac40	0	5795	Ant1	5795	0	0	25	Pass
20C 120V	ac40	0	5795	Ant1	5795	0	0	25	Pass
20C 138V	ac40	0	5795	Ant1	5795	0	0	25	Pass
-10C 120V	ac40	0	5795	Ant1	5795	0	0	25	Pass
0C 120V	ac40	0	5795	Ant1	5795	0	0	25	Pass
10C 120V	ac40	0	5795	Ant1	5795	0	0	25	Pass
30C 120V	ac40	0	5795	Ant1	5795	0	0	25	Pass
40C 120V	ac40	0	5795	Ant1	5795	0	0	25	Pass
20C 102V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 120V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	ax20	0	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	ax20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 120V	ax20	0	5200	Ant1	5200	0	0	25	Pass
20C 138V	ax20	0	5200	Ant1	5200	0	0	25	Pass
-10C 120V	ax20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
0C 120V	ax20	0	5200	Ant1	5200	0	0	25	Pass
10C 120V	ax20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	ax20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	ax20	0	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 138V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	ax20	0	5240	Ant1	5230	0	0	25	Pass
30C 120V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	ax20	0	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 138V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
-10C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
0C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
10C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
30C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
40C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
50C 120V	ax20	0	5745	Ant1	5744.98	-20000	-3.48	25	Pass
20C 102V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 138V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-20C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
-10C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
0C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
10C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
30C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
40C 120V	ax20	0	5785	Ant1	5784.98	-20000	-3.46	25	Pass
20C 102V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 120V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 138V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
-10C 120V	ax20	0	5825	Ant1	5825	0	0	25	Pass
0C 120V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
10C 120V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
30C 120V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
40C 120V	ax20	0	5825	Ant1	5824.98	-20000	-3.43	25	Pass
20C 102V	ax40	0	5190	Ant1	5190	0	0	25	Pass

20C 120V	ax40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	ax40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-10C 120V	ax40	0	5190	Ant1	5190	0	0	25	Pass
0C 120V	ax40	0	5190	Ant1	5190	0	0	25	Pass
10C 120V	ax40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	ax40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	ax40	0	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 102V	ax40	0	5230	Ant1	5230	0	0	25	Pass
20C 120V	ax40	0	5230	Ant1	5230	0	0	25	Pass
20C 138V	ax40	0	5230	Ant1	5230	0	0	25	Pass
-10C 120V	ax40	0	5230	Ant1	5230	0	0	25	Pass
0C 120V	ax40	0	5230	Ant1	5229.96	-40000	-7.65	25	Pass
10C 120V	ax40	0	5230	Ant1	5230	0	0	25	Pass
30C 120V	ax40	0	5230	Ant1	5230	0	0	25	Pass
40C 120V	ax40	0	5230	Ant1	5230	0	0	25	Pass
20C 102V	ax40	0	5755	Ant1	5755	0	0	25	Pass
20C 120V	ax40	0	5755	Ant1	5755	0	0	25	Pass
20C 138V	ax40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
-10C 120V	ax40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
0C 120V	ax40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
10C 120V	ax40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
30C 120V	ax40	0	5755	Ant1	5755	0	0	25	Pass
40C 120V	ax40	0	5755	Ant1	5754.96	-40000	-6.95	25	Pass
20C 102V	ax40	0	5795	Ant1	5795	0	0	25	Pass
20C 120V	ax40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass
20C 138V	ax40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass
-10C 120V	ax40	0	5795	Ant1	5795	0	0	25	Pass
0C 120V	ax40	0	5795	Ant1	5795	0	0	25	Pass
10C 120V	ax40	0	5795	Ant1	5795	0	0	25	Pass
30C 120V	ax40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass
40C 120V	ax40	0	5795	Ant1	5794.96	-40000	-6.9	25	Pass

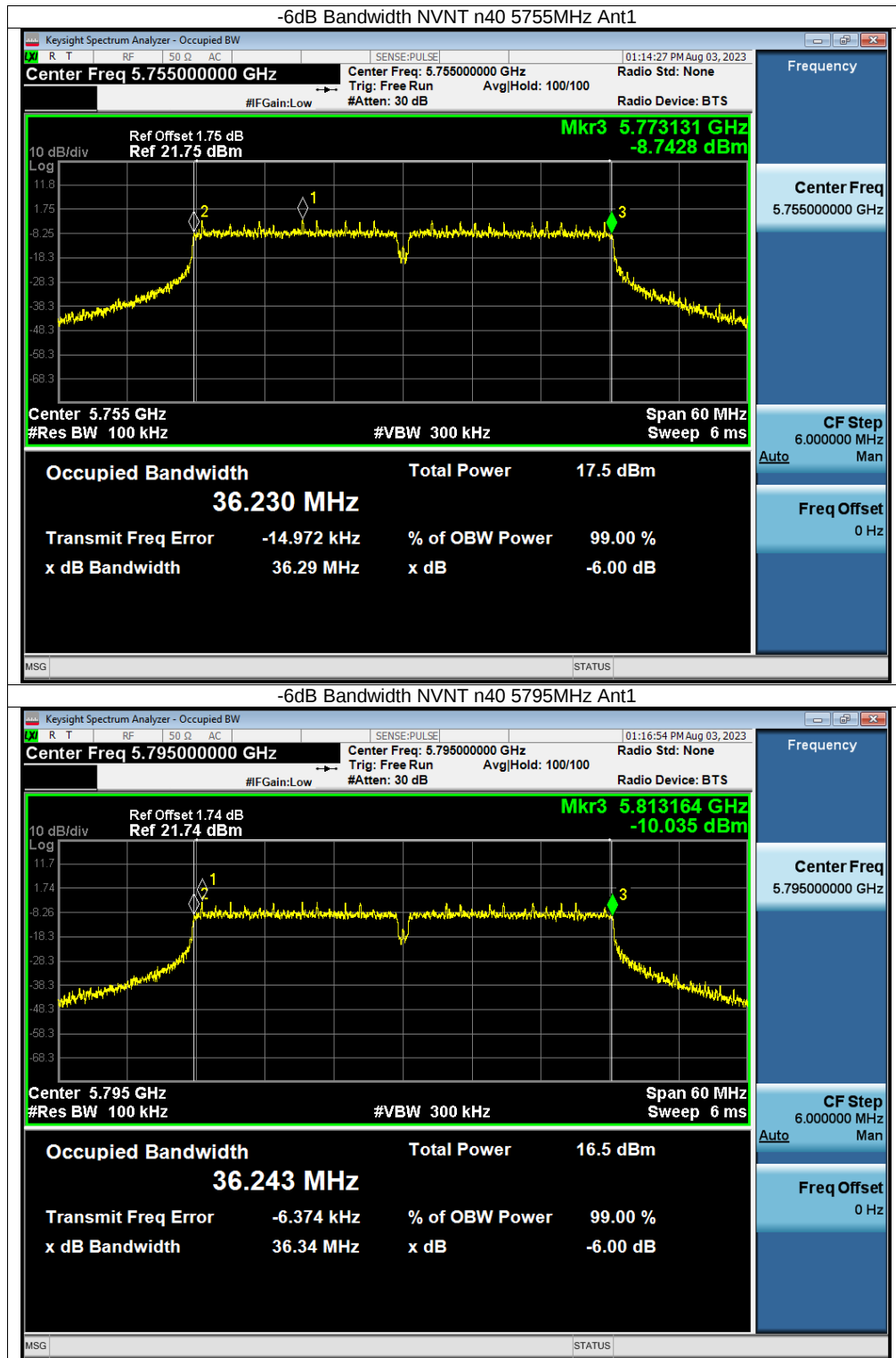
Appendix F -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.36	0.5	Pass
NVNT	a	5785	Ant1	16.337	0.5	Pass
NVNT	a	5825	Ant1	16.334	0.5	Pass
NVNT	n20	5745	Ant1	17.57	0.5	Pass
NVNT	n20	5785	Ant1	17.623	0.5	Pass
NVNT	n20	5825	Ant1	17.574	0.5	Pass
NVNT	n40	5755	Ant1	36.293	0.5	Pass
NVNT	n40	5795	Ant1	36.342	0.5	Pass
NVNT	ac20	5745	Ant1	17.571	0.5	Pass
NVNT	ac20	5785	Ant1	17.567	0.5	Pass
NVNT	ac20	5825	Ant1	17.573	0.5	Pass
NVNT	ac40	5755	Ant1	36.33	0.5	Pass
NVNT	ac40	5795	Ant1	36.278	0.5	Pass
NVNT	ax20	5745	Ant1	18.954	0.5	Pass
NVNT	ax20	5785	Ant1	18.863	0.5	Pass
NVNT	ax20	5825	Ant1	18.991	0.5	Pass
NVNT	ax40	5755	Ant1	38.028	0.5	Pass
NVNT	ax40	5795	Ant1	38.097	0.5	Pass

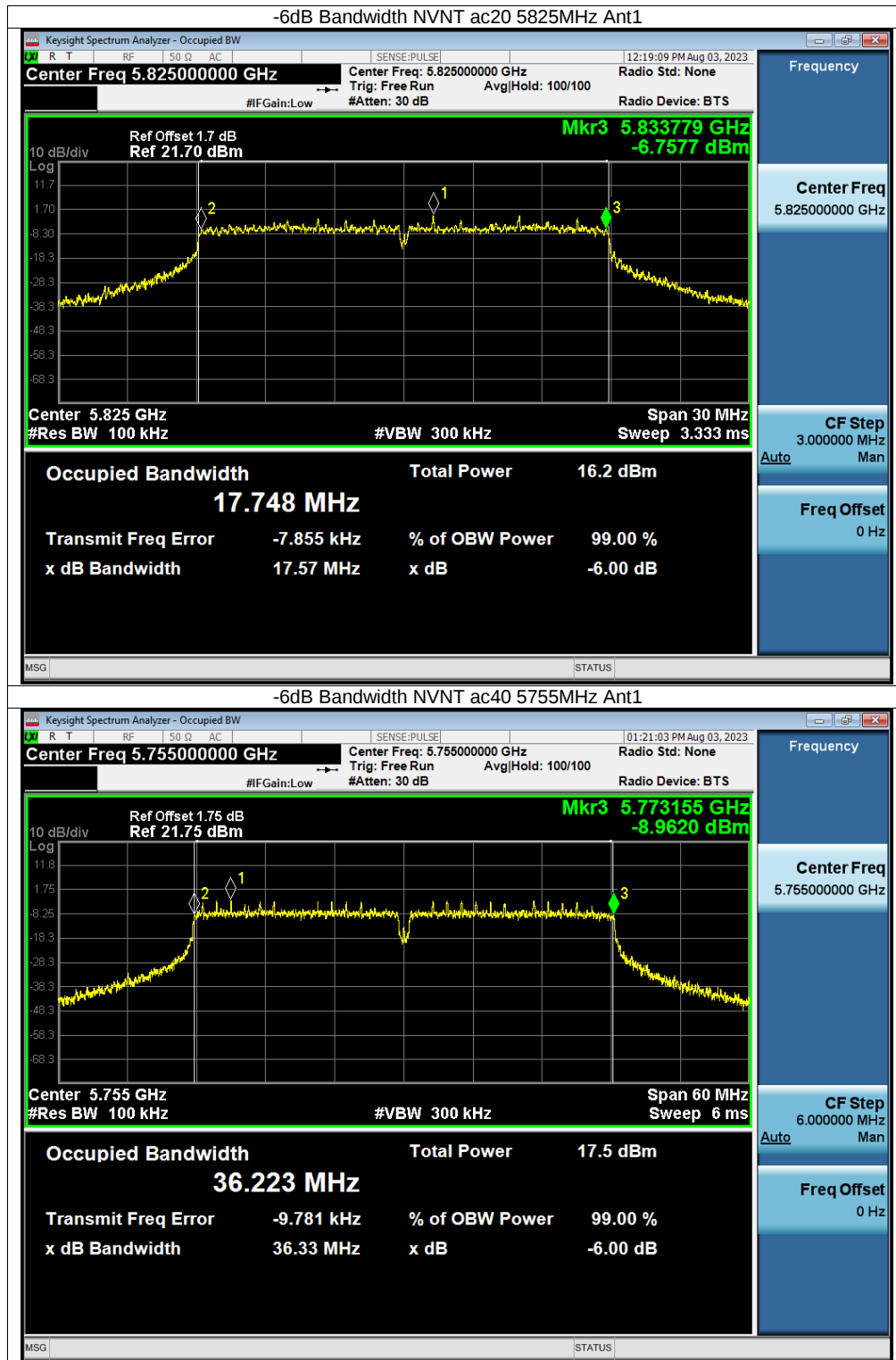


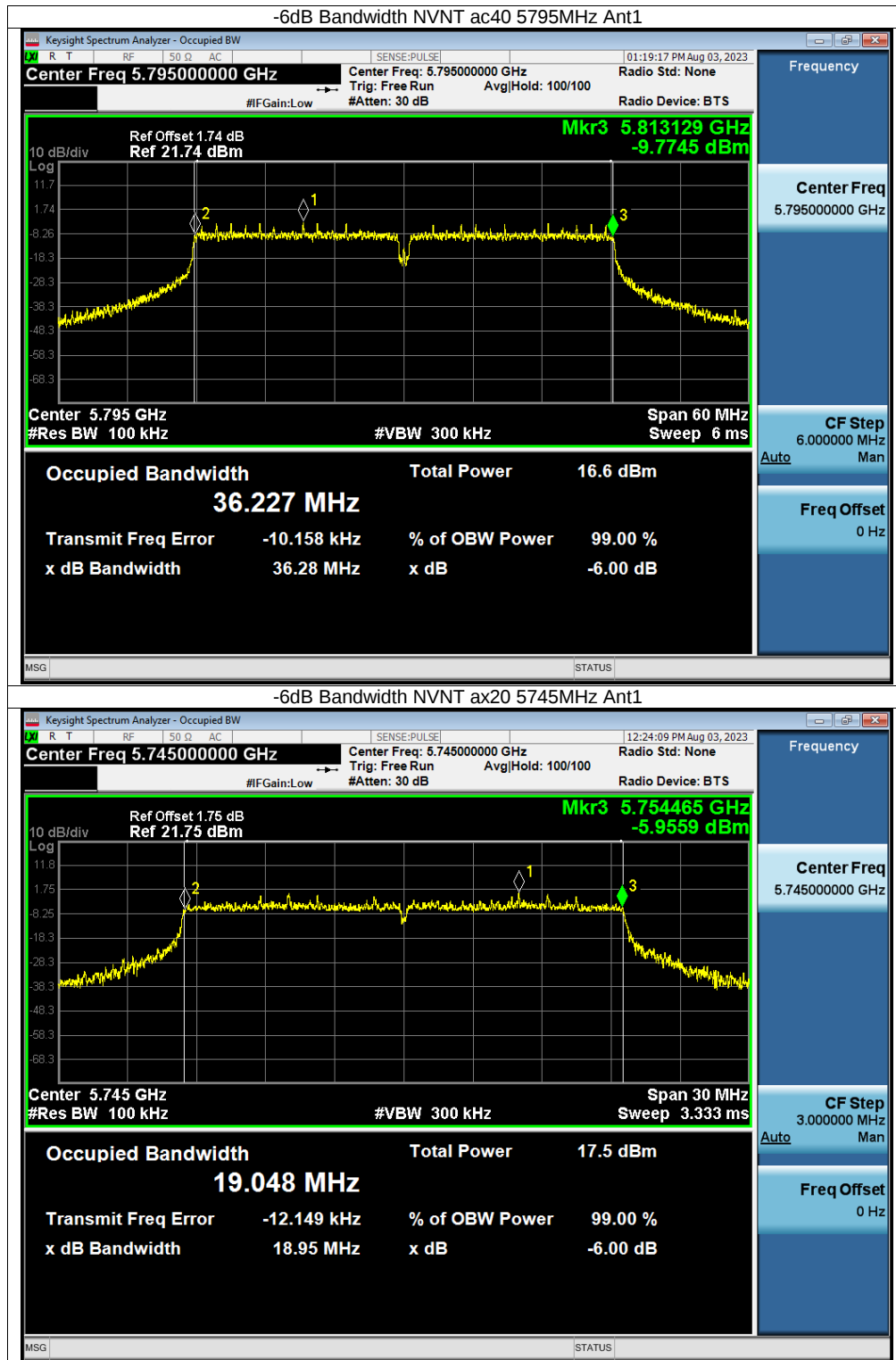


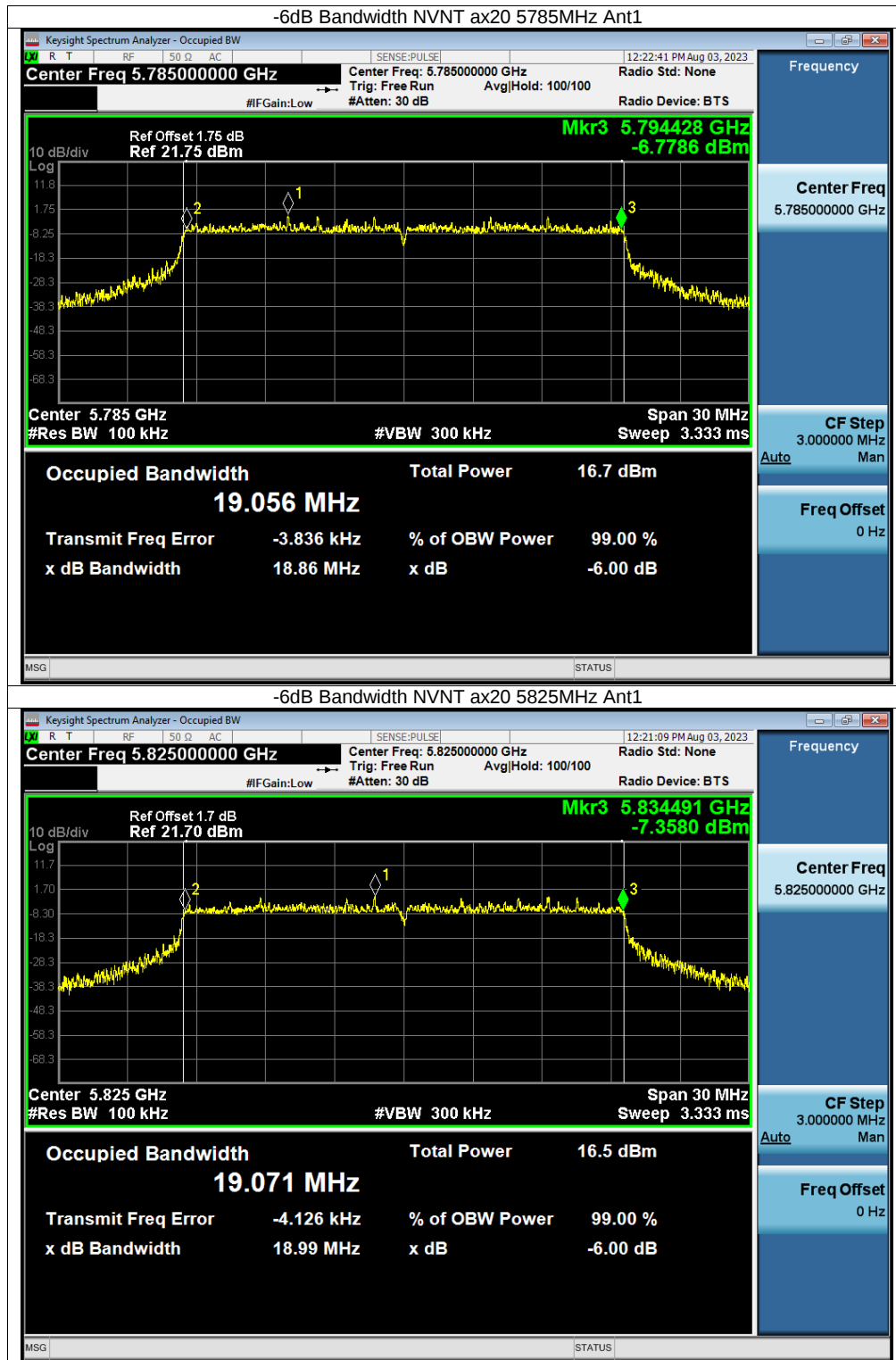


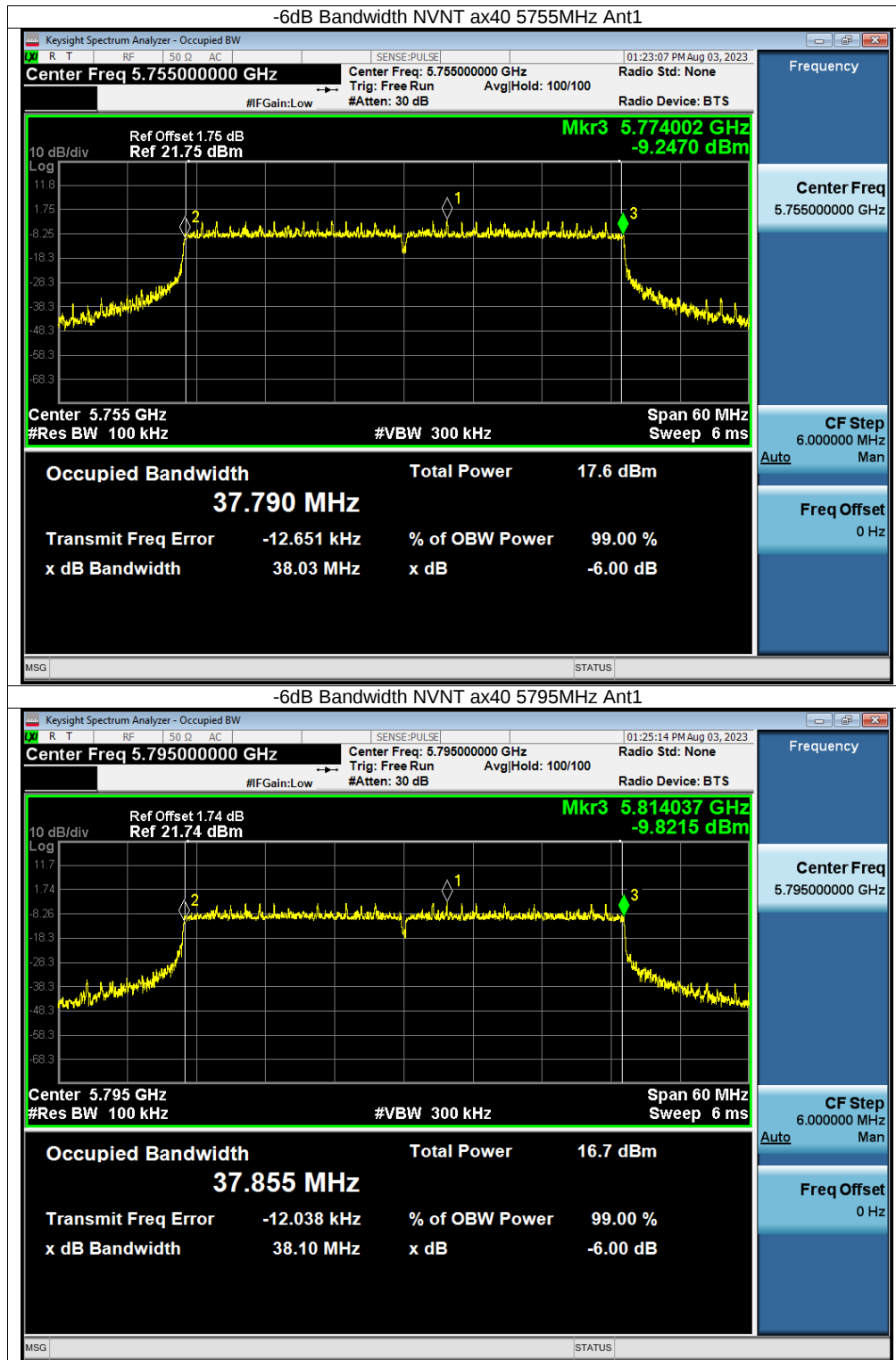












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