

5.2GWIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.71	0.06	0.48
NVNT	a	5200	Ant1	98.71	0.06	0.49
NVNT	a	5240	Ant1	98.71	0.06	0.48
NVNT	a	5180	Ant2	98.74	0.06	0.48
NVNT	a	5200	Ant2	98.71	0.06	0.48
NVNT	a	5240	Ant2	98.73	0.06	0.49
NVNT	n20	5180	Ant1	98.62	0.06	0.52
NVNT	n20	5200	Ant1	98.62	0.06	0.52
NVNT	n20	5240	Ant1	98.61	0.06	0.52
NVNT	n20	5180	Ant2	98.61	0.06	0.52
NVNT	n20	5200	Ant2	98.65	0.06	0.52
NVNT	n20	5240	Ant2	98.64	0.06	0.52
NVNT	n40	5190	Ant1	97.35	0.12	1.05
NVNT	n40	5230	Ant1	97.3	0.12	1.05
NVNT	n40	5190	Ant2	97.27	0.12	1.05
NVNT	n40	5230	Ant2	97.38	0.12	1.05
NVNT	ac20	5180	Ant1	98.63	0.06	0.52
NVNT	ac20	5200	Ant1	98.63	0.06	0.52
NVNT	ac20	5240	Ant1	98.62	0.06	0.52
NVNT	ac20	5180	Ant2	98.63	0.06	0.52
NVNT	ac20	5200	Ant2	98.63	0.06	0.52
NVNT	ac20	5240	Ant2	98.69	0.06	0.52
NVNT	ac40	5190	Ant1	97.34	0.12	1.05
NVNT	ac40	5230	Ant1	97.2	0.12	1.05
NVNT	ac40	5190	Ant2	97.31	0.12	1.05
NVNT	ac40	5230	Ant2	97.38	0.12	1.04
NVNT	ac80	5210	Ant1	92.02	0.36	2.22
NVNT	ac80	5210	Ant2	94.08	0.26	2.17

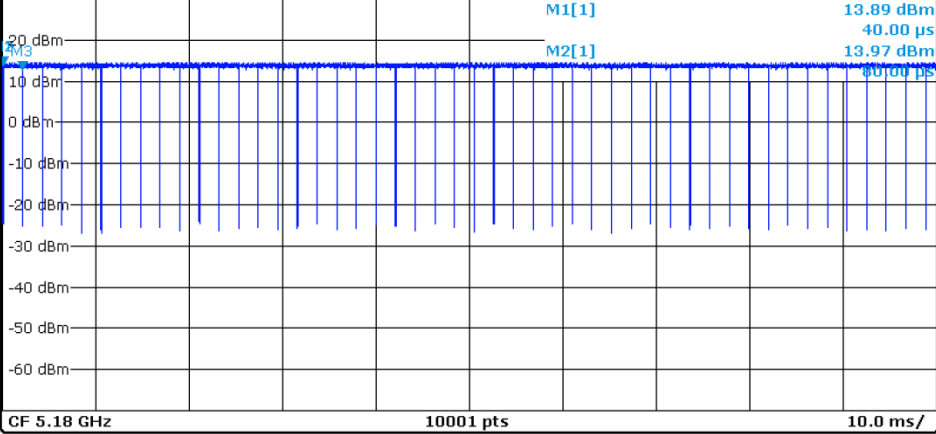
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 3.96 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw

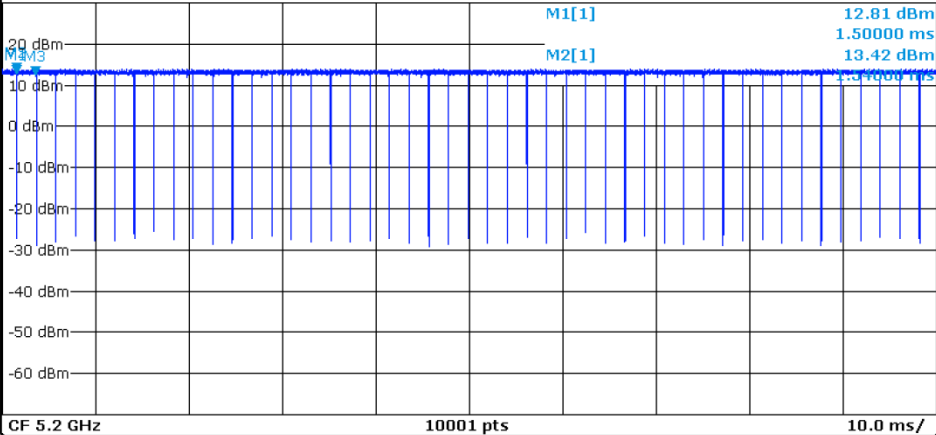


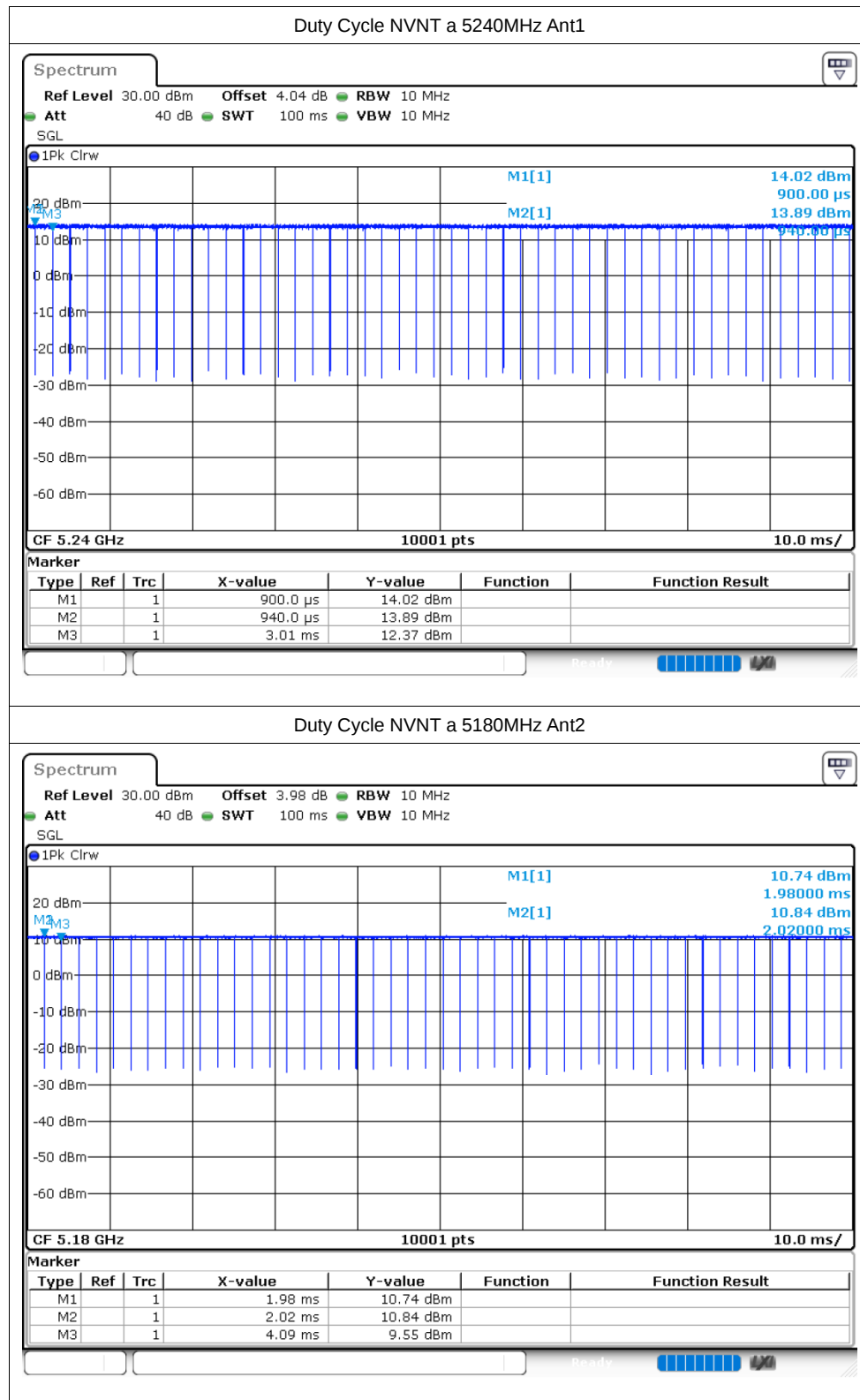
Duty Cycle NVNT a 5200MHz Ant1

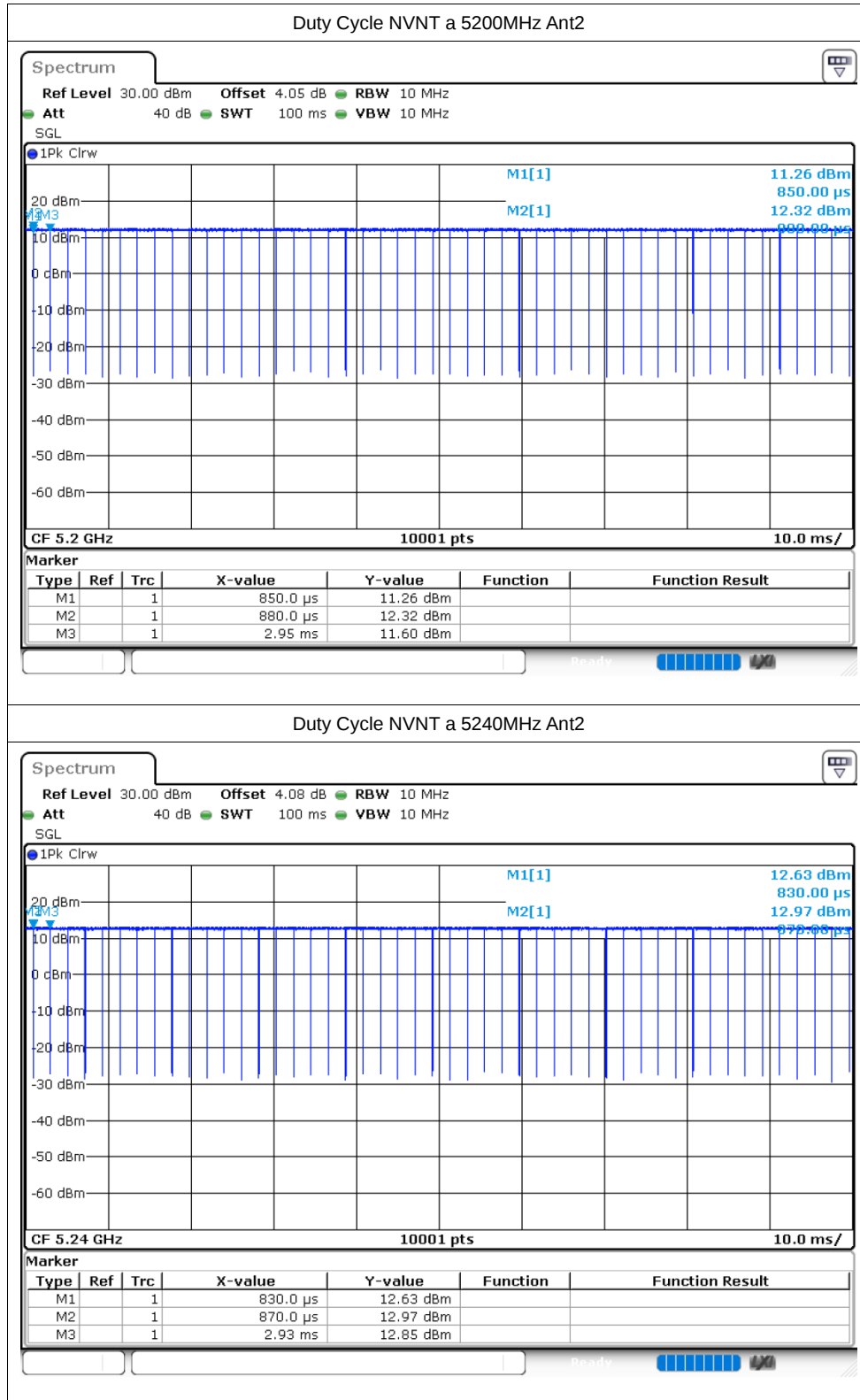
Spectrum

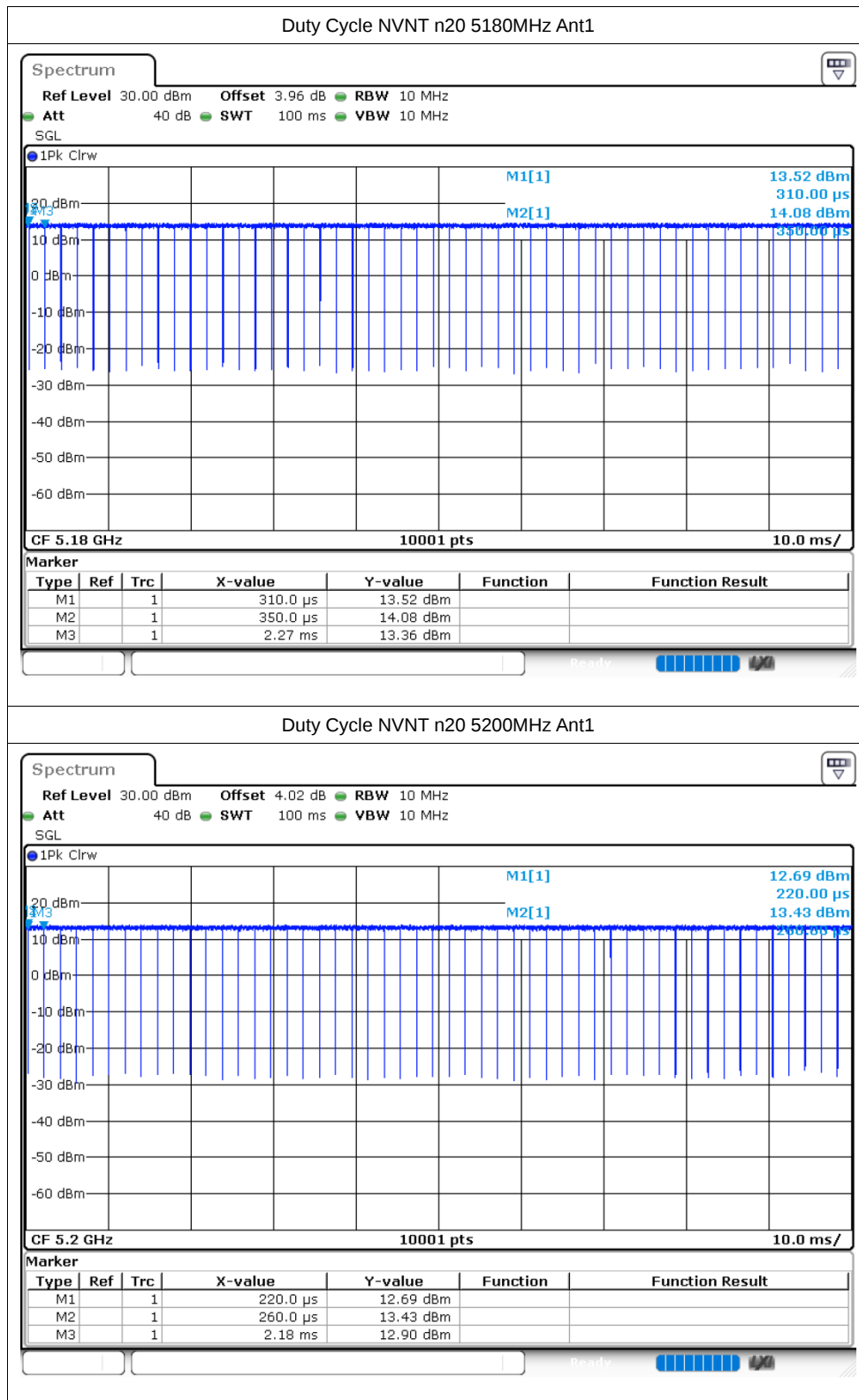
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL

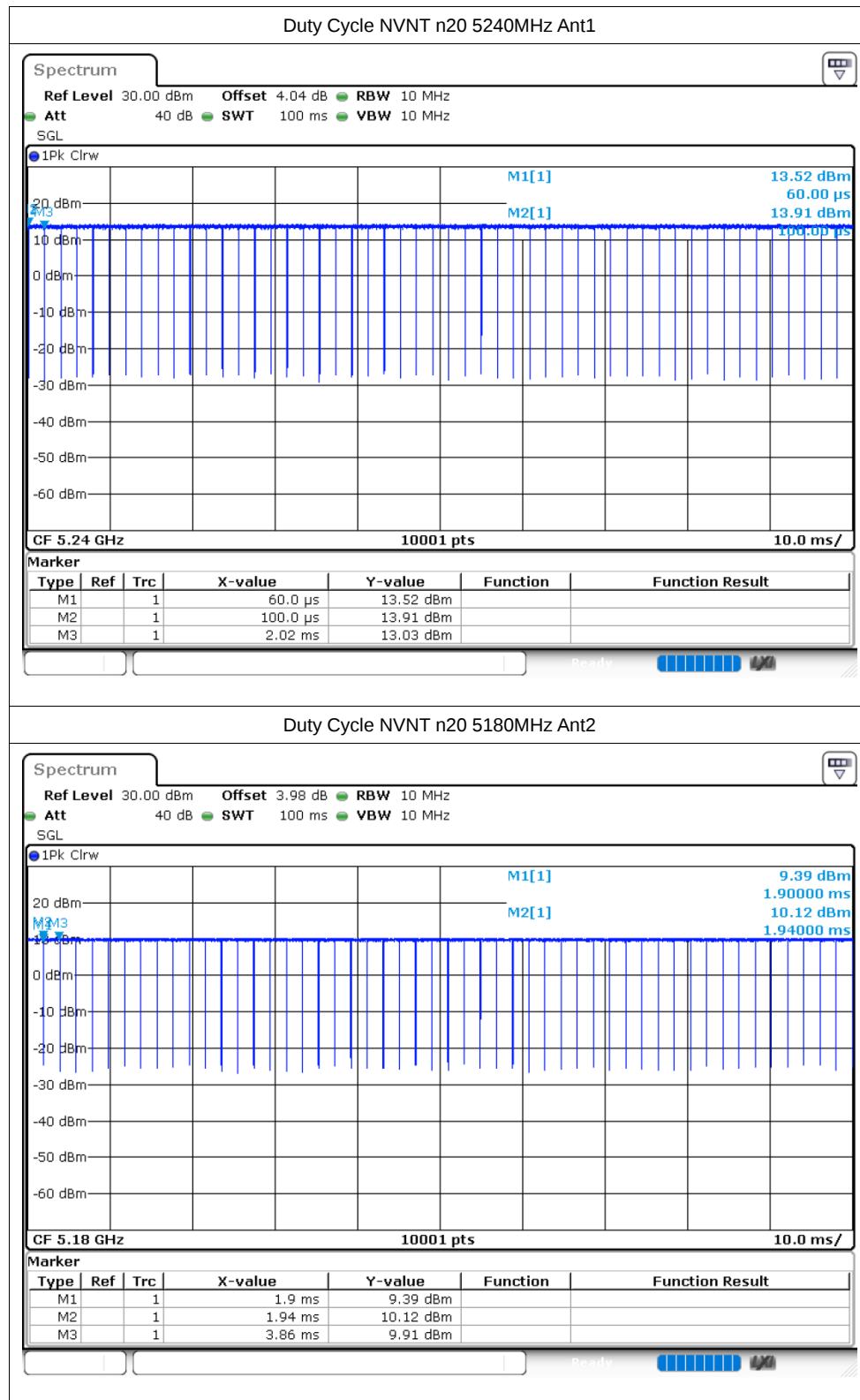
1Pk Clrw

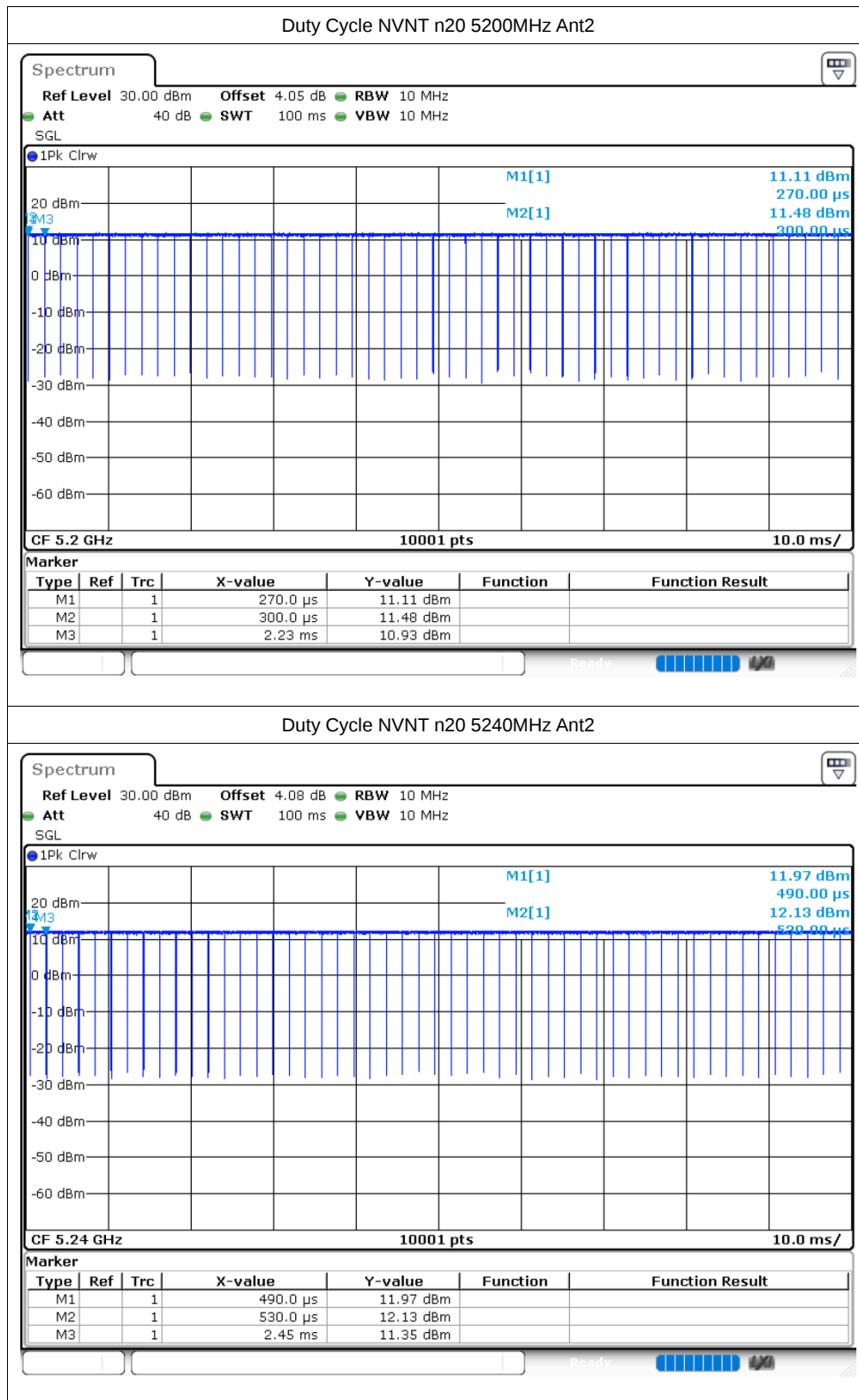


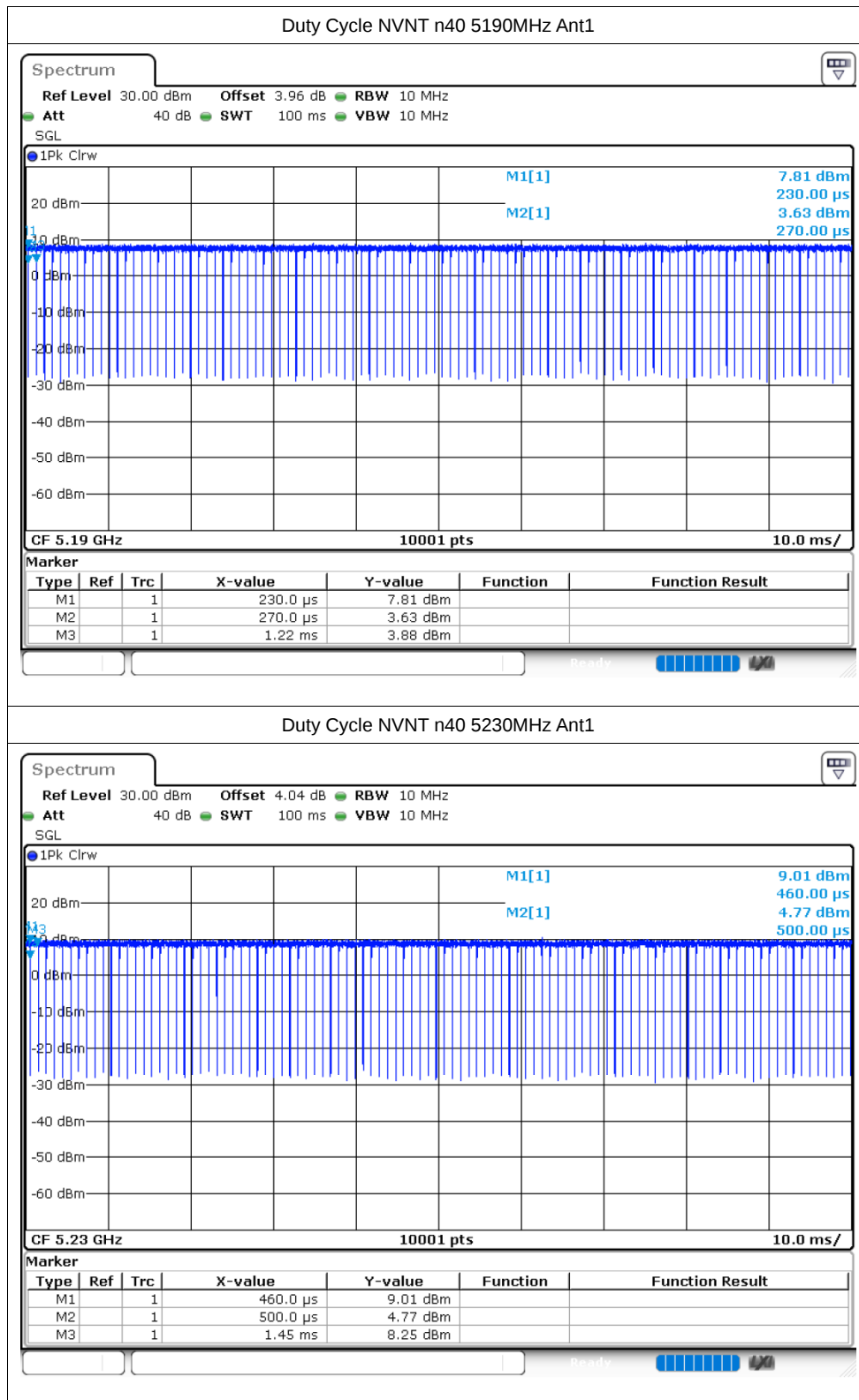


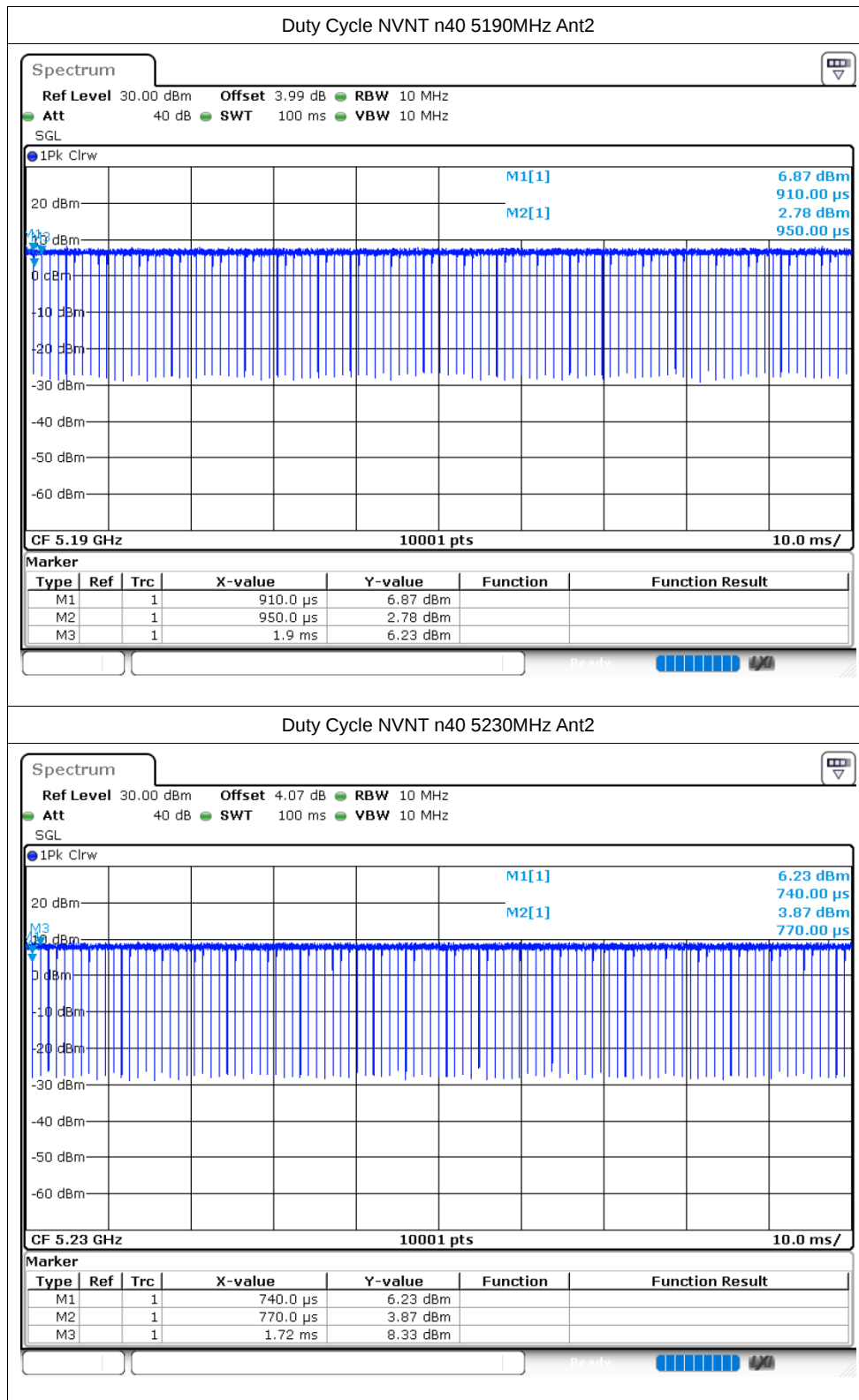


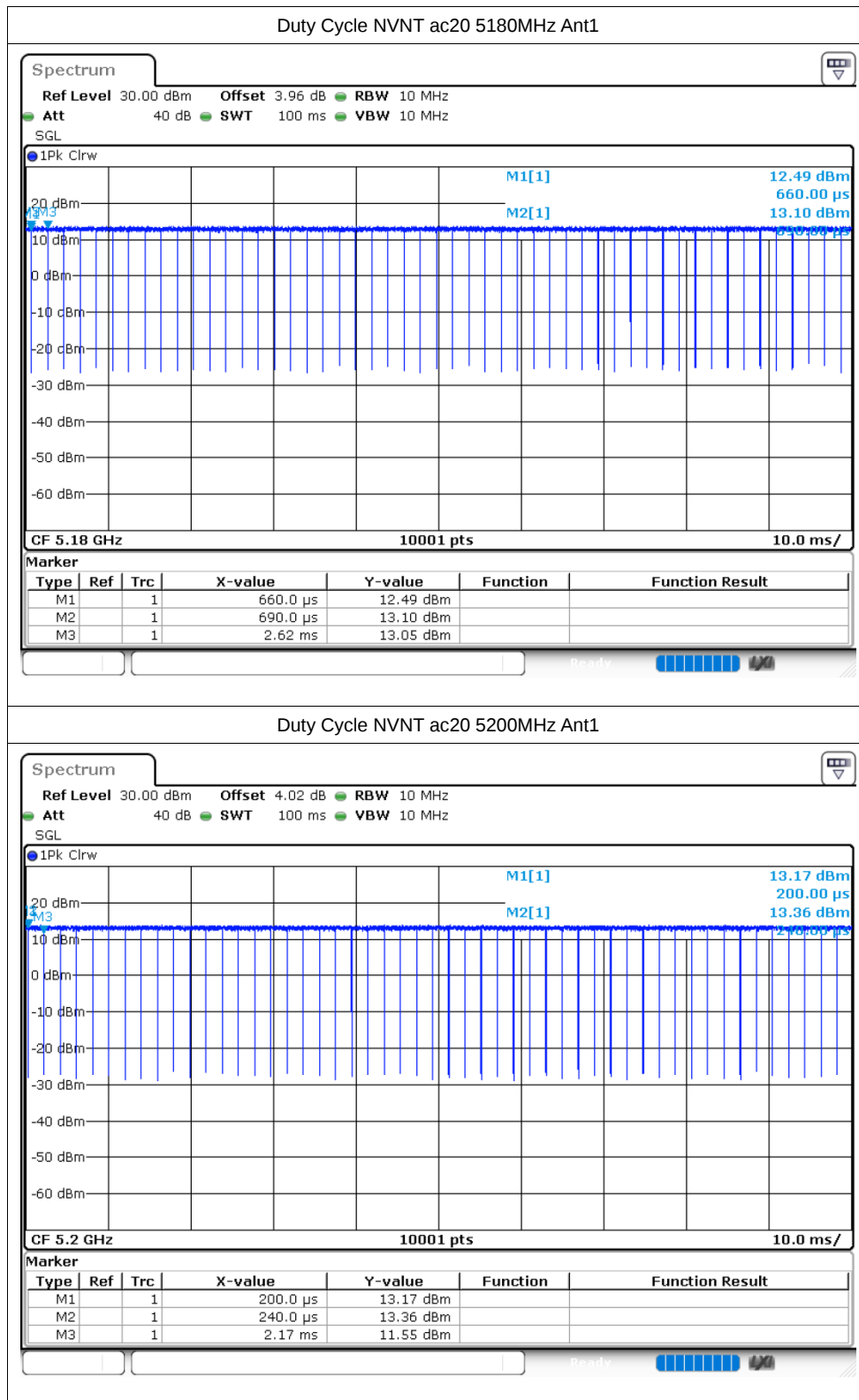


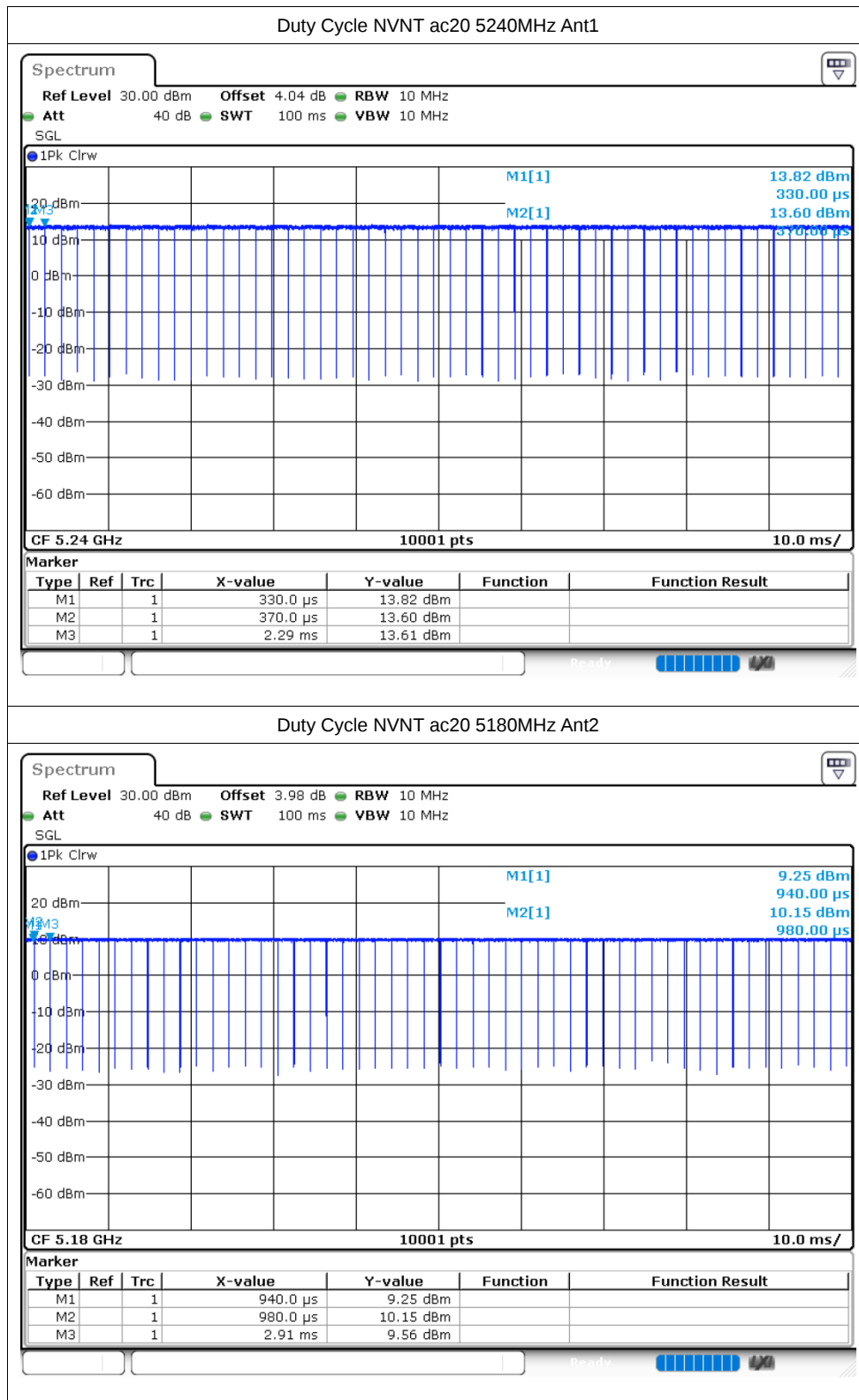


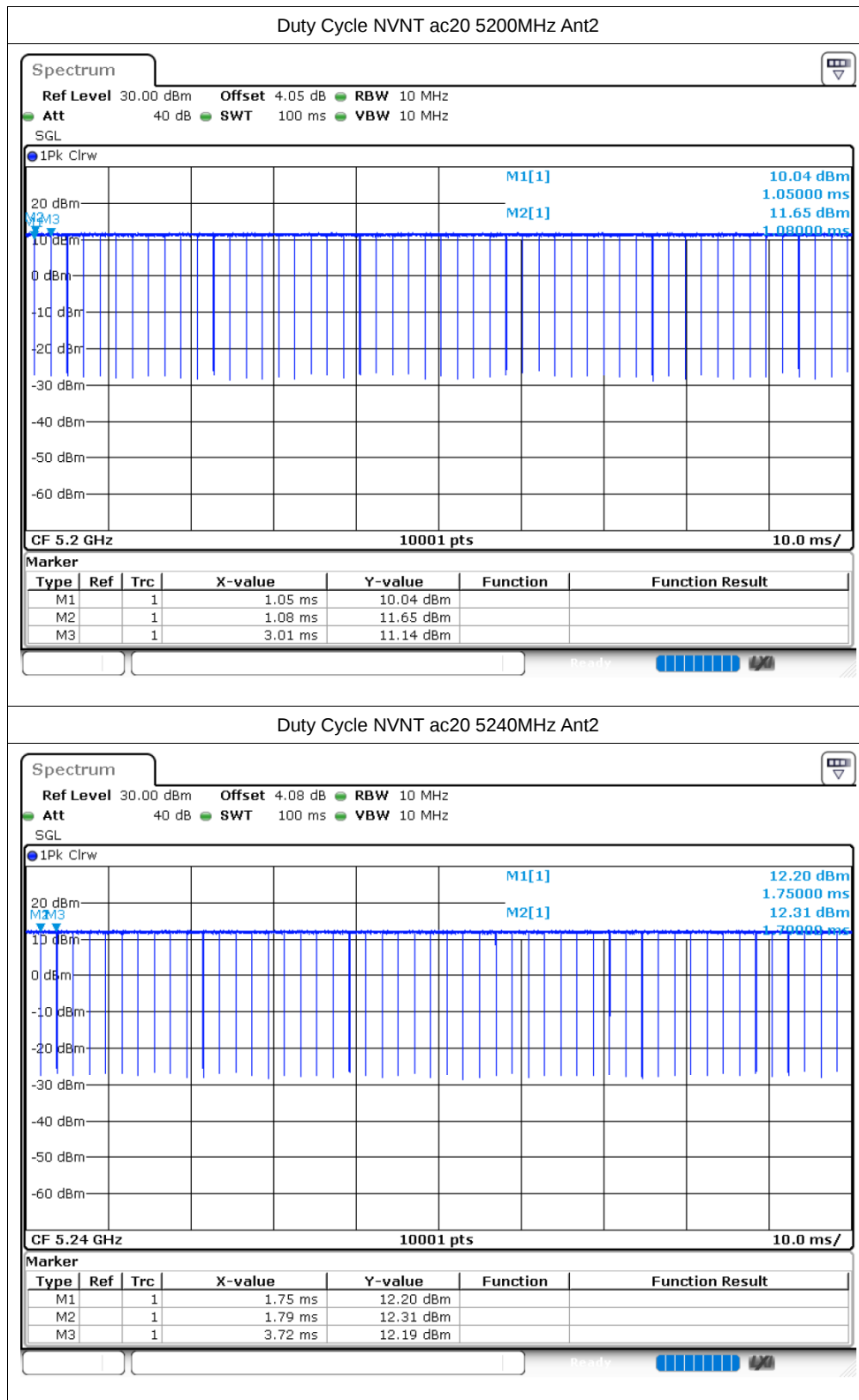


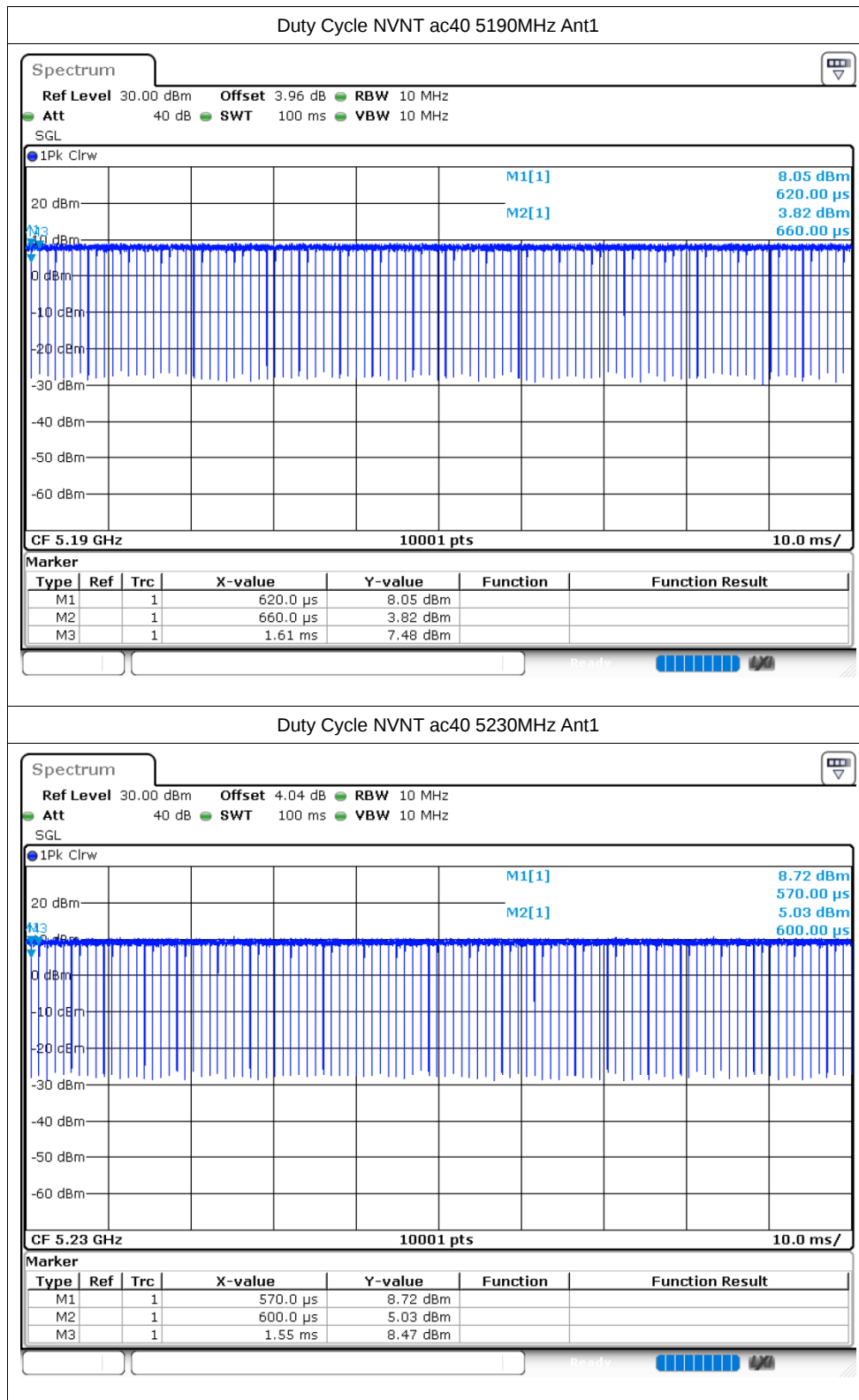


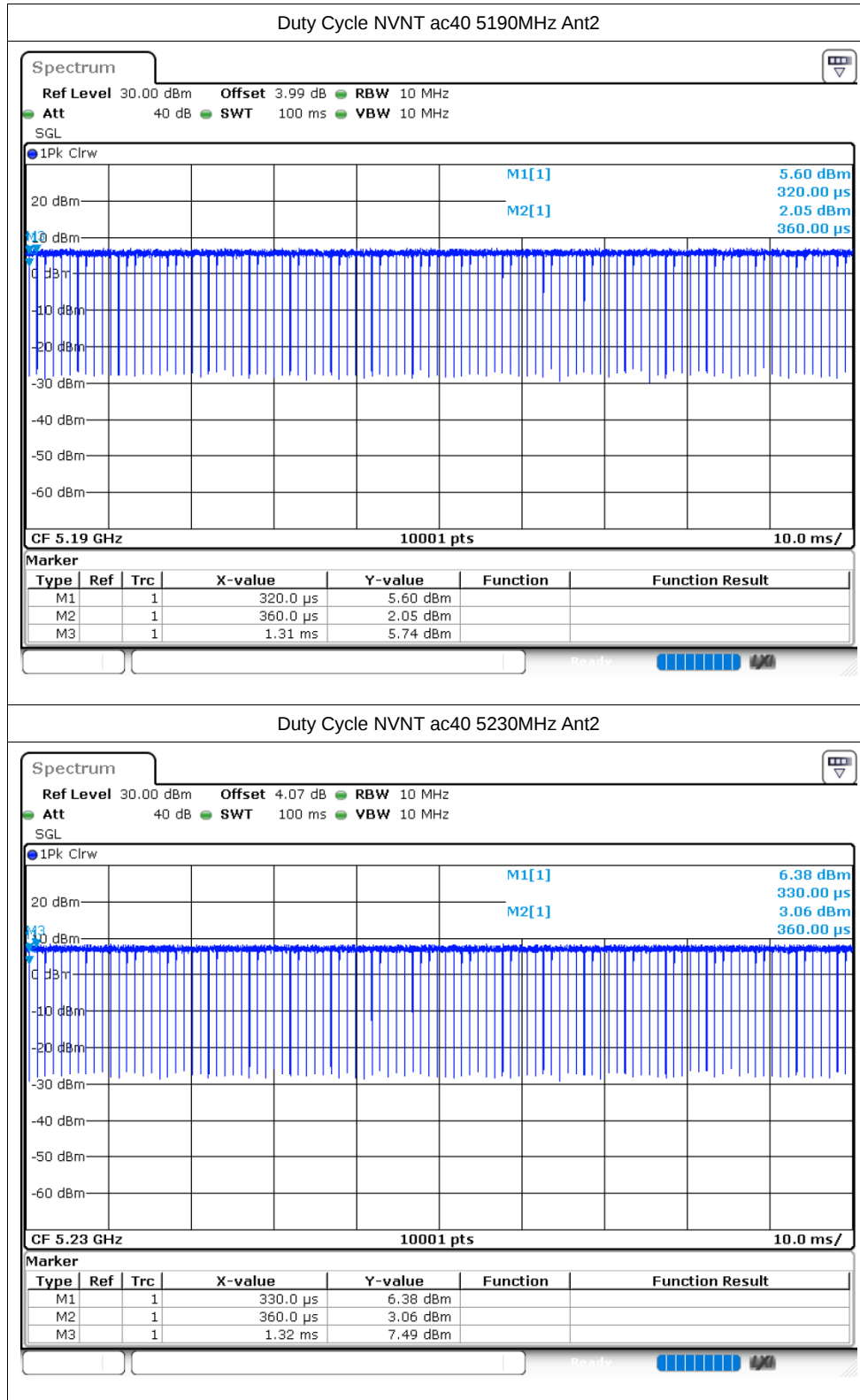


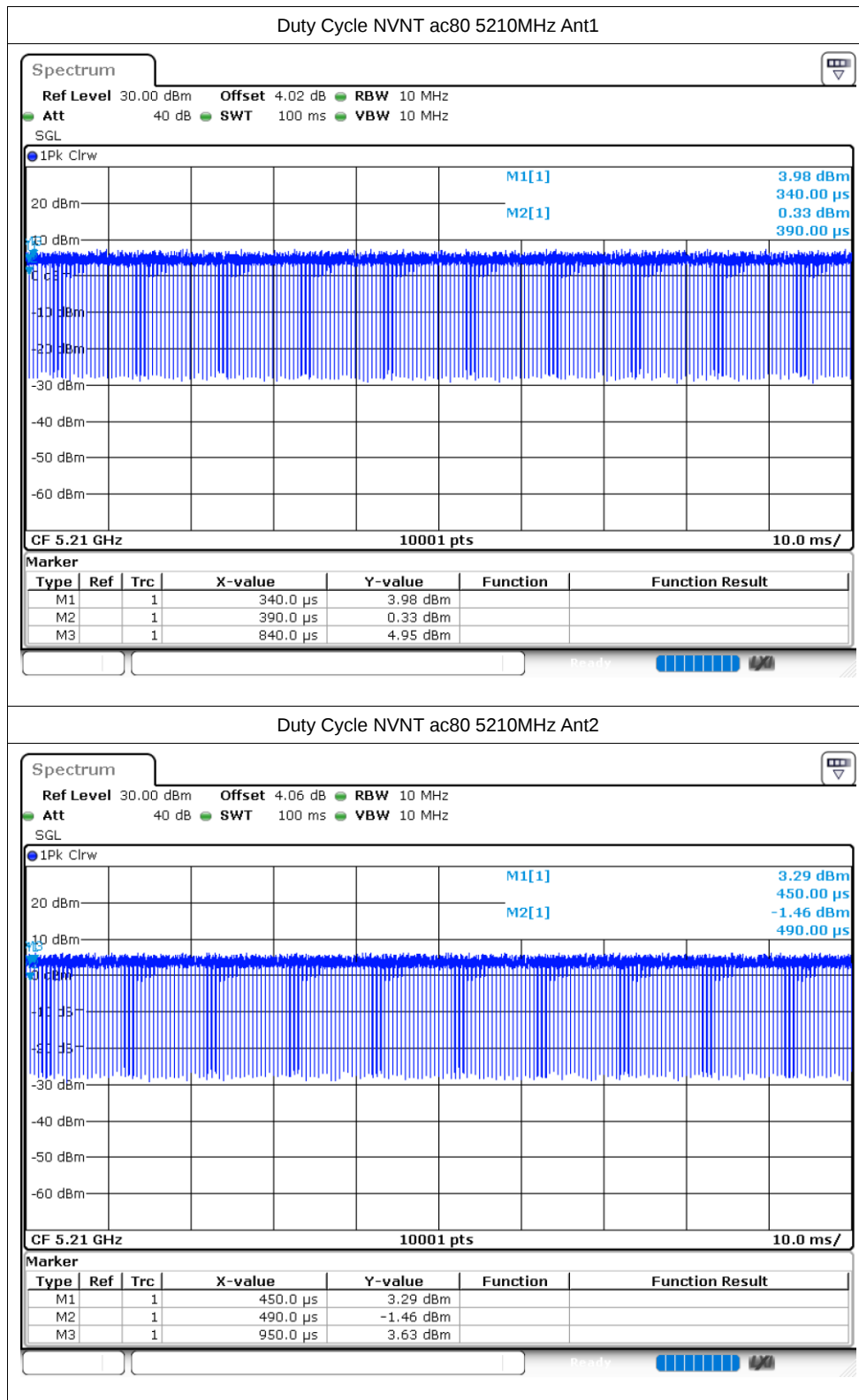












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.22	24	Pass
NVNT	a	5200	Ant1	11.57	24	Pass
NVNT	a	5240	Ant1	11.31	24	Pass
NVNT	a	5180	Ant2	10.71	24	Pass
NVNT	a	5200	Ant2	10.89	24	Pass
NVNT	a	5240	Ant2	11.72	24	Pass
NVNT	n20	5180	Ant1	11.91	24	Pass
NVNT	n20	5200	Ant1	11.45	24	Pass
NVNT	n20	5240	Ant1	11.22	24	Pass
NVNT	n20	5180	Ant2	9.64	24	Pass
NVNT	n20	5200	Ant2	9.82	24	Pass
NVNT	n20	5240	Ant2	10.56	24	Pass
NVNT	n40	5190	Ant1	8.35	24	Pass
NVNT	n40	5230	Ant1	8.96	24	Pass
NVNT	n40	5190	Ant2	6.76	24	Pass
NVNT	n40	5230	Ant2	7.38	24	Pass
NVNT	ac20	5180	Ant1	11.03	24	Pass
NVNT	ac20	5200	Ant1	11.4	24	Pass
NVNT	ac20	5240	Ant1	11.1	24	Pass
NVNT	ac20	5180	Ant2	9.64	24	Pass
NVNT	ac20	5200	Ant2	9.79	24	Pass
NVNT	ac20	5240	Ant2	10.55	24	Pass
NVNT	ac40	5190	Ant1	8.41	24	Pass
NVNT	ac40	5230	Ant1	8.68	24	Pass
NVNT	ac40	5190	Ant2	5.89	24	Pass
NVNT	ac40	5230	Ant2	6.47	24	Pass
NVNT	ac80	5210	Ant1	6.25	24	Pass
NVNT	ac80	5210	Ant2	4.95	24	Pass

Note: The conducted power values of Ant1 and Ant 2 already include the duty cycle factor.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.808	Pass
NVNT	a	5200	Ant1	20.937	Pass
NVNT	a	5240	Ant1	21.504	Pass
NVNT	a	5180	Ant2	21.234	Pass
NVNT	a	5200	Ant2	20.997	Pass
NVNT	a	5240	Ant2	20.685	Pass
NVNT	n20	5180	Ant1	21.201	Pass
NVNT	n20	5200	Ant1	20.739	Pass
NVNT	n20	5240	Ant1	21.324	Pass
NVNT	n20	5180	Ant2	20.781	Pass
NVNT	n20	5200	Ant2	21.249	Pass
NVNT	n20	5240	Ant2	21.333	Pass
NVNT	n40	5190	Ant1	42.024	Pass
NVNT	n40	5230	Ant1	42.108	Pass
NVNT	n40	5190	Ant2	42.102	Pass
NVNT	n40	5230	Ant2	47.01	Pass
NVNT	ac20	5180	Ant1	21.399	Pass
NVNT	ac20	5200	Ant1	21.291	Pass
NVNT	ac20	5240	Ant1	21.678	Pass
NVNT	ac20	5180	Ant2	21.249	Pass
NVNT	ac20	5200	Ant2	21.759	Pass
NVNT	ac20	5240	Ant2	21.531	Pass
NVNT	ac40	5190	Ant1	42.24	Pass
NVNT	ac40	5230	Ant1	41.586	Pass
NVNT	ac40	5190	Ant2	42.18	Pass
NVNT	ac40	5230	Ant2	41.604	Pass
NVNT	ac80	5210	Ant1	84.708	Pass
NVNT	ac80	5210	Ant2	84.372	Pass

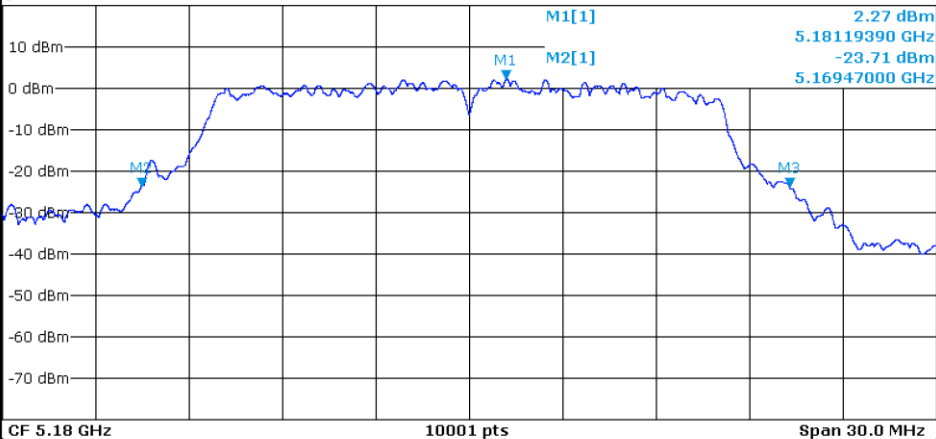
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

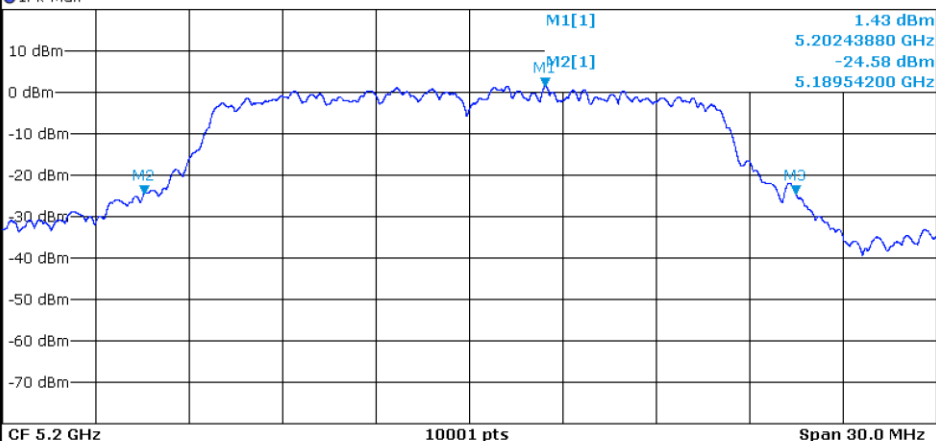


-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

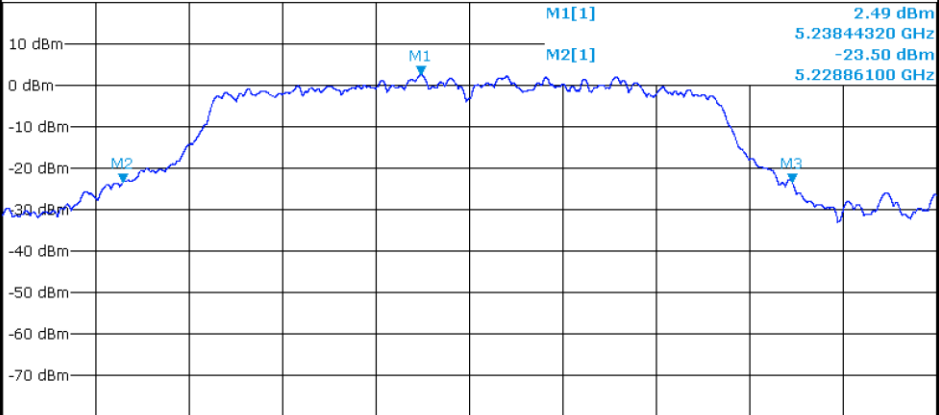


-26dB Bandwidth NVNT a 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 5.24 GHz 10001 pts Span 30.0 MHz

Marker

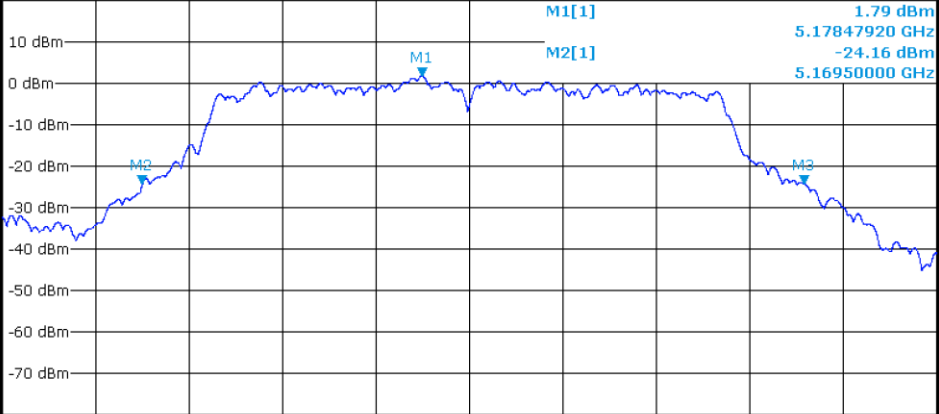
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2384432 GHz	2.49 dBm		
M2		1	5.228861 GHz	-23.50 dBm		
M3		1	5.250365 GHz	-23.51 dBm		

-26dB Bandwidth NVNT a 5180MHz Ant2

Spectrum

Ref Level 20.00 dBm Offset 3.98 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

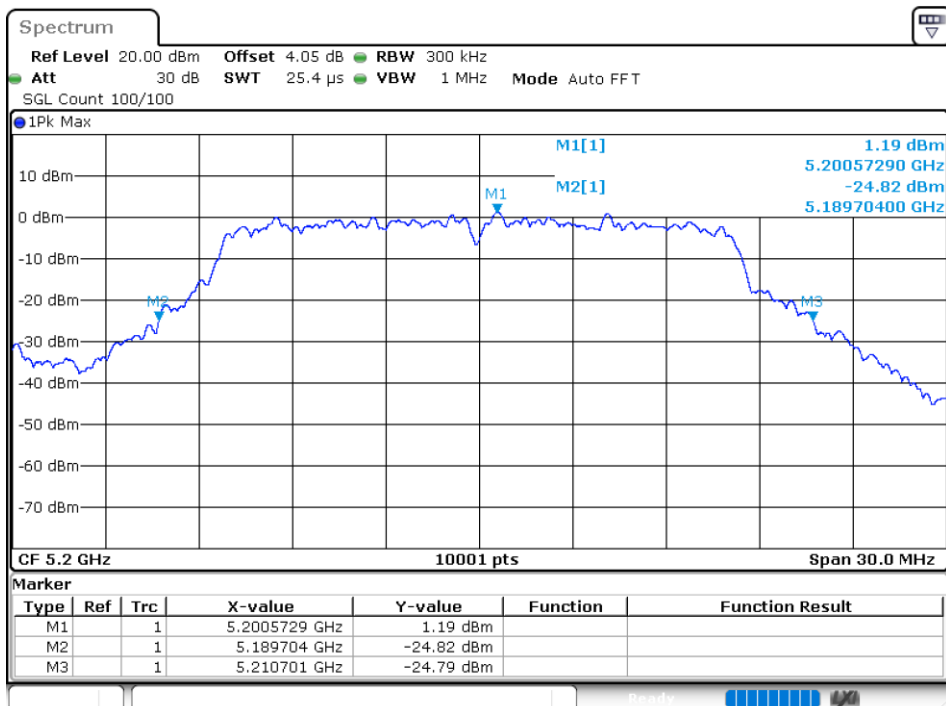


CF 5.18 GHz 10001 pts Span 30.0 MHz

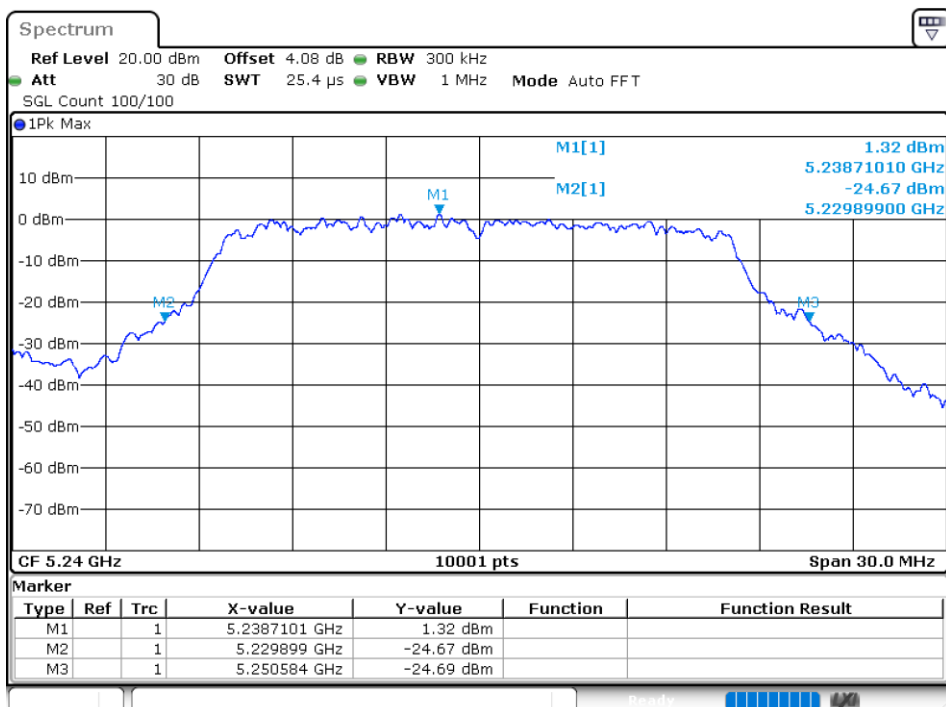
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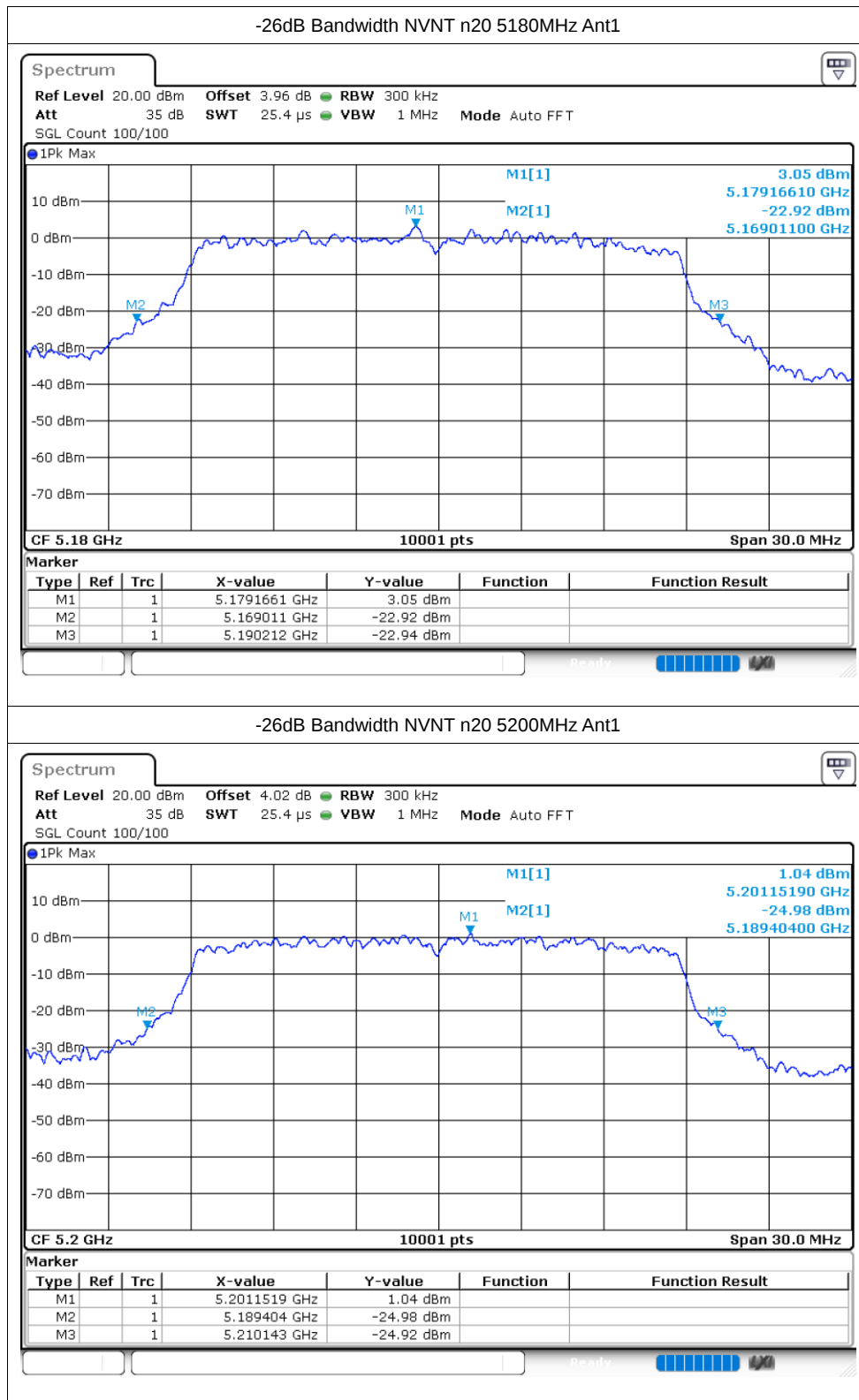
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.1784792 GHz	1.79 dBm		
M2		1	5.1695 GHz	-24.16 dBm		
M3		1	5.190734 GHz	-24.23 dBm		

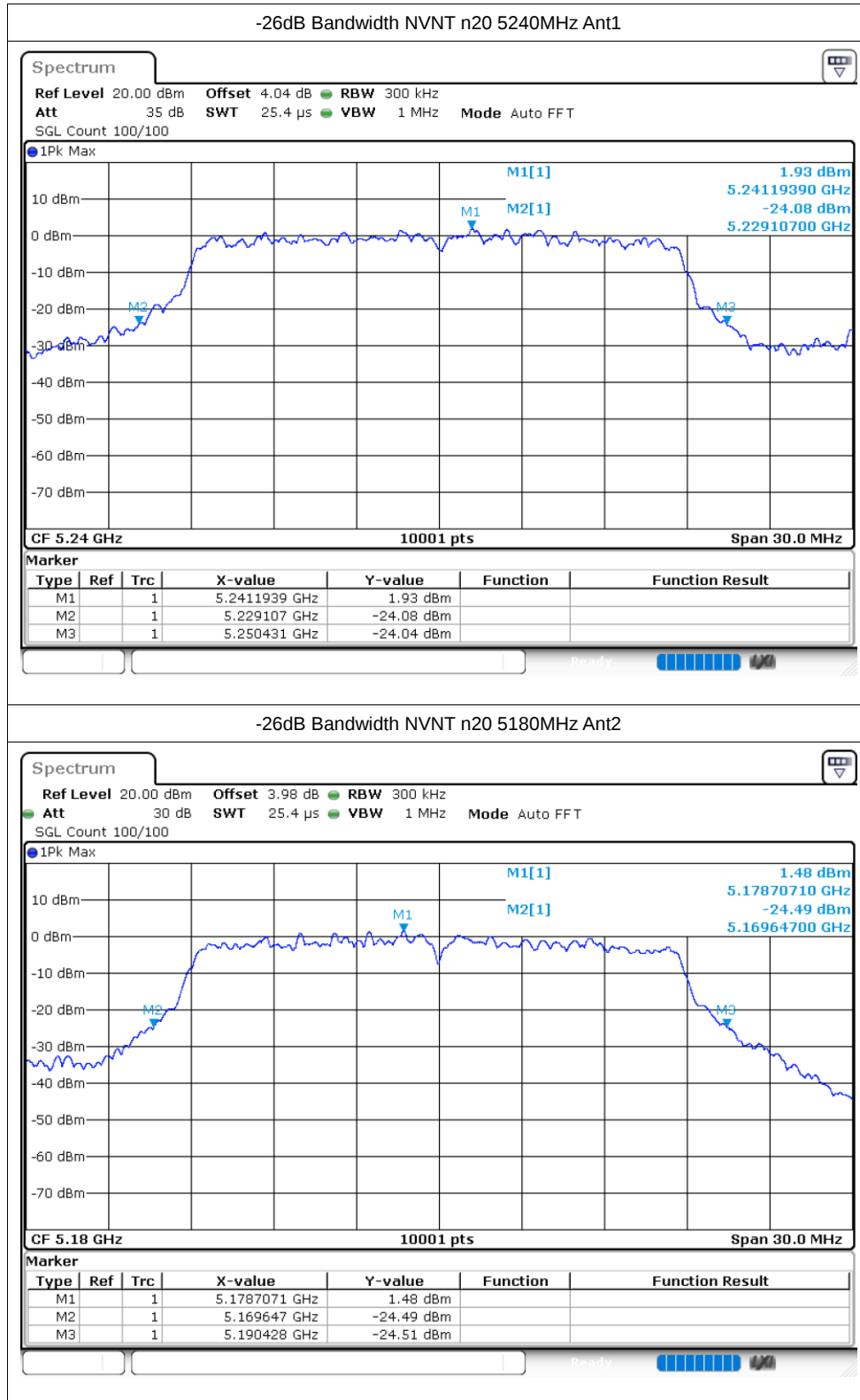
-26dB Bandwidth NVNT a 5200MHz Ant2

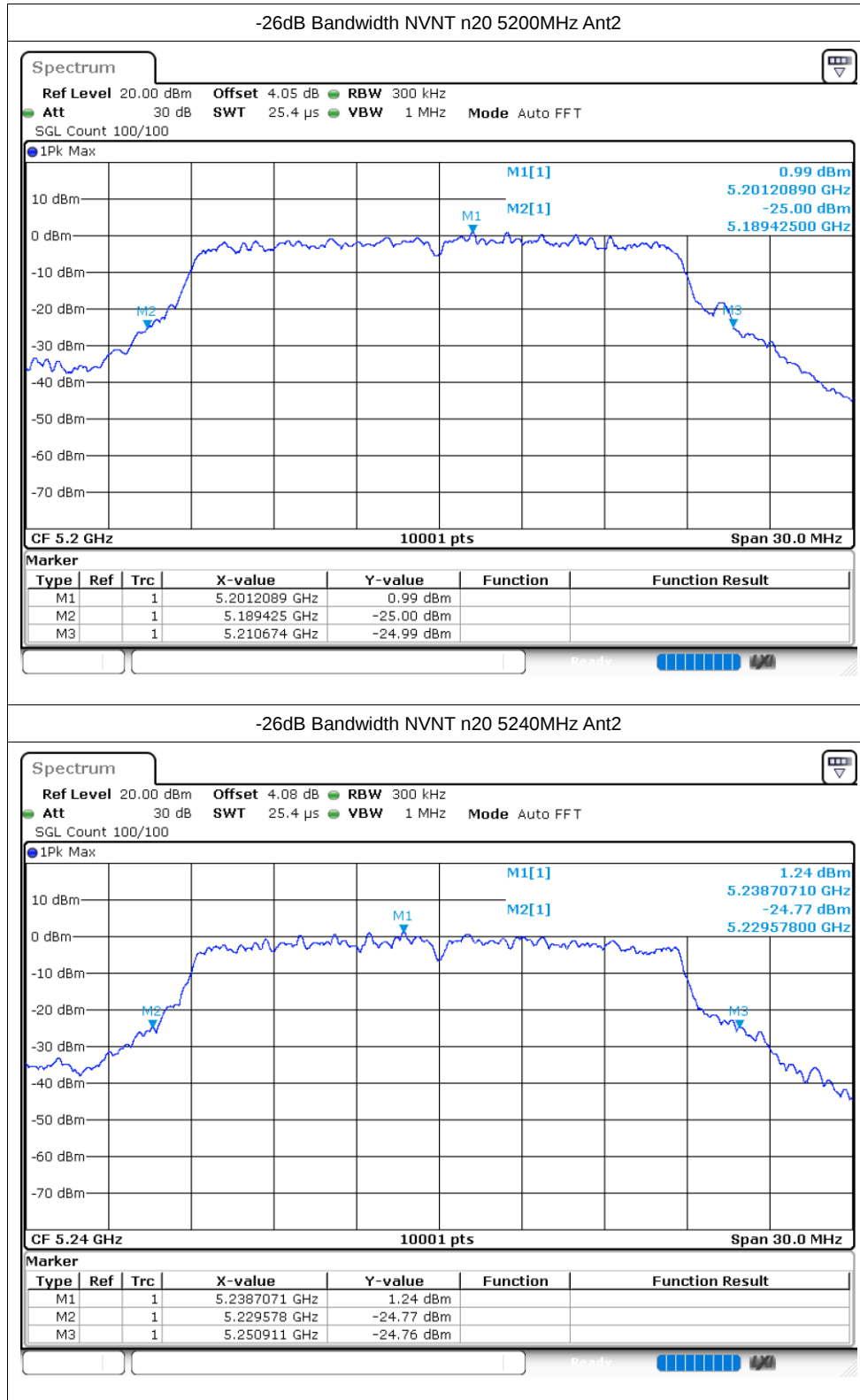


-26dB Bandwidth NVNT a 5240MHz Ant2







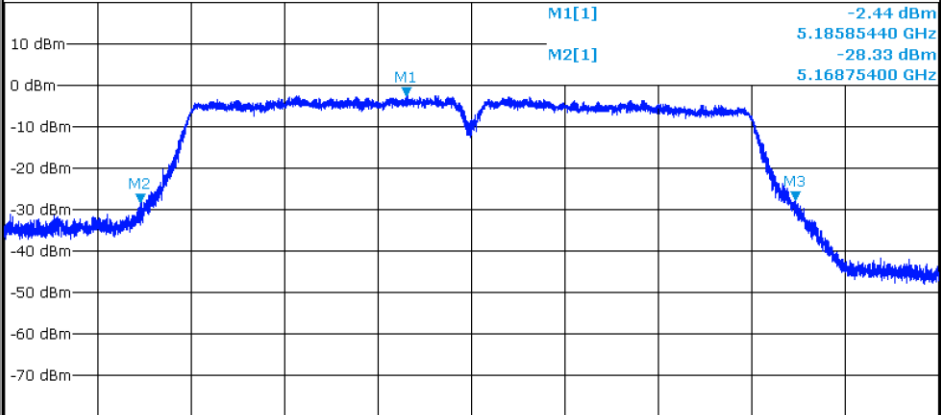


-26dB Bandwidth NVNT n40 5190MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 500 kHz
Att 30 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

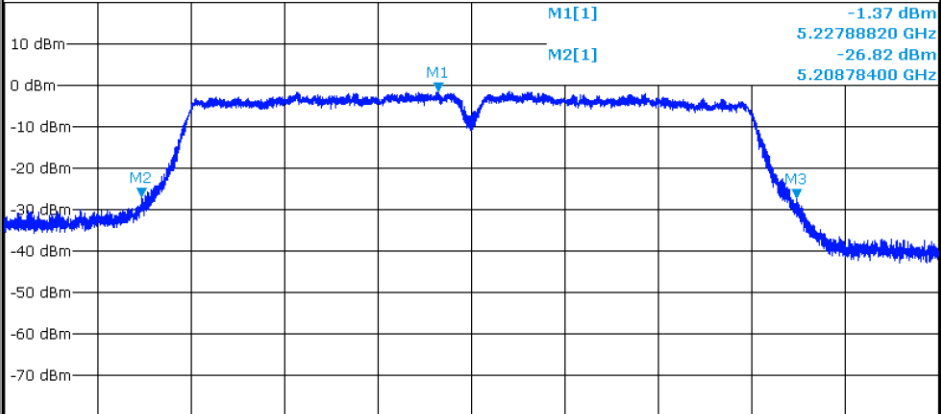
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.1858544 GHz	-2.44 dBm		
M2	1	1	5.168754 GHz	-28.33 dBm		
M3	1	1	5.210778 GHz	-27.63 dBm		

-26dB Bandwidth NVNT n40 5230MHz Ant1

Spectrum

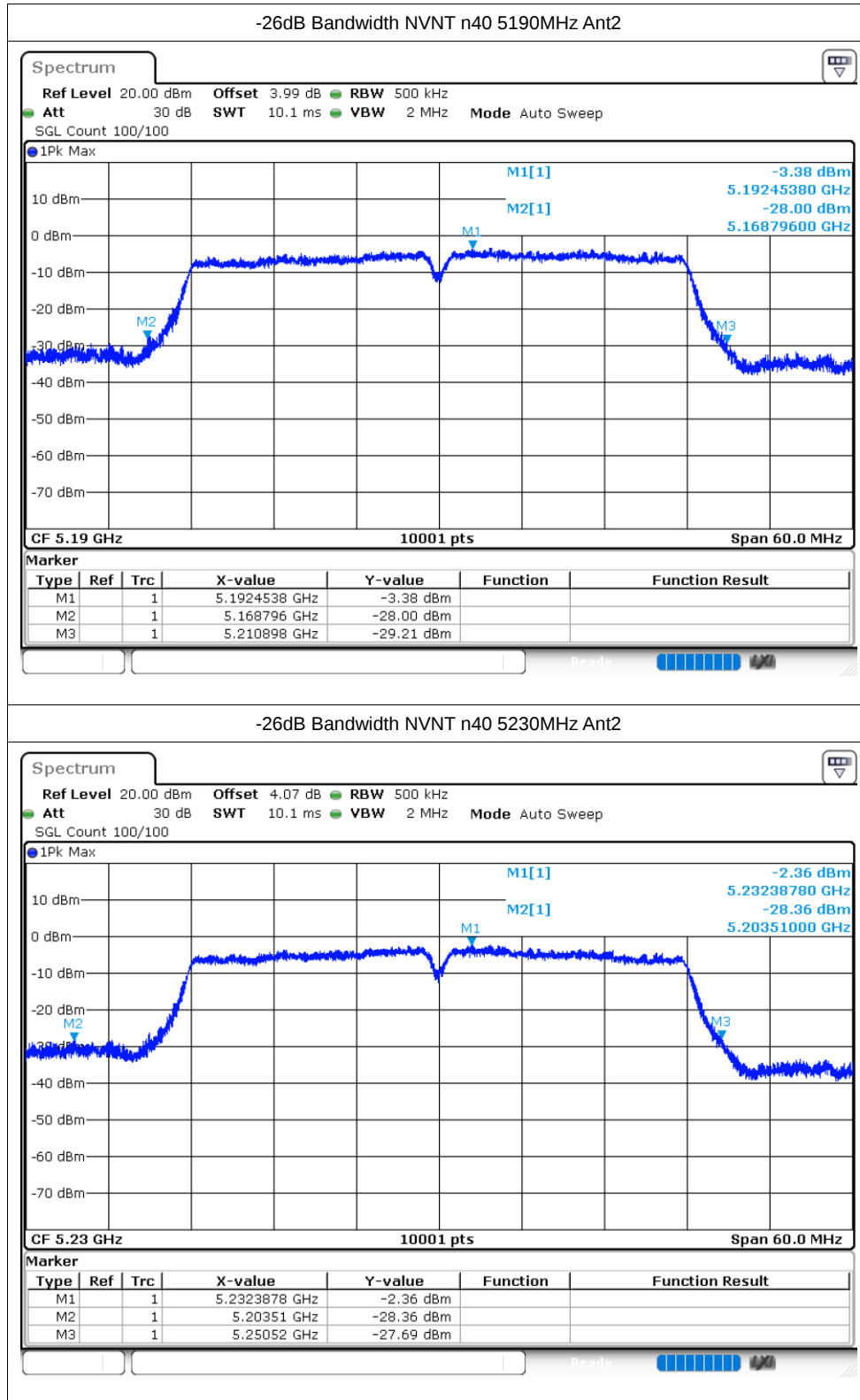
Ref Level 20.00 dBm Offset 4.04 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.2278882 GHz	-1.37 dBm		
M2	1	1	5.208784 GHz	-26.82 dBm		
M3	1	1	5.250892 GHz	-27.24 dBm		

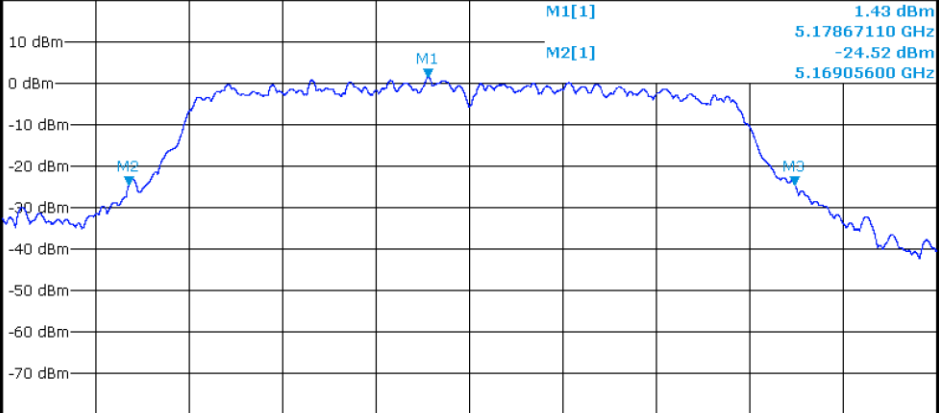


-26dB Bandwidth NVNT ac20 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

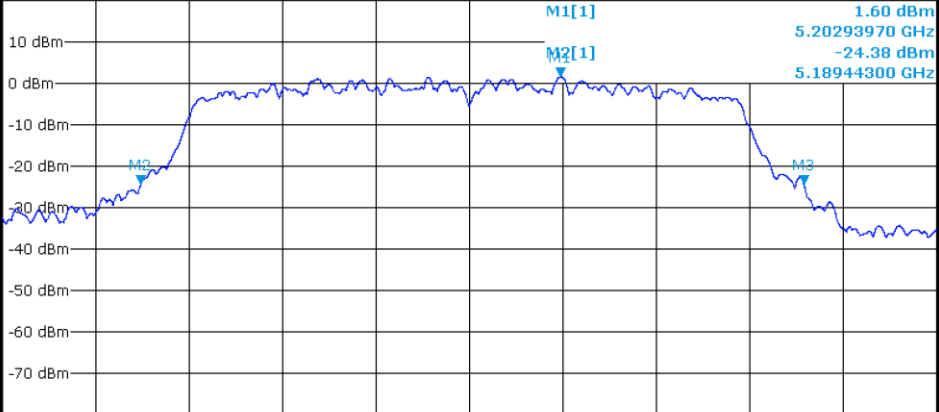
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.1786711 GHz	1.43 dBm		
M2		1	5.169056 GHz	-24.52 dBm		
M3		1	5.190455 GHz	-24.55 dBm		

-26dB Bandwidth NVNT ac20 5200MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

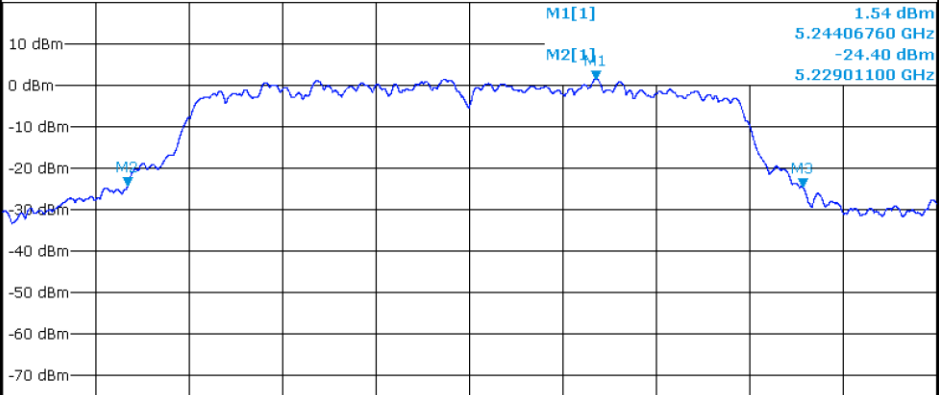
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2029397 GHz	1.60 dBm		
M2		1	5.189443 GHz	-24.38 dBm		
M3		1	5.210734 GHz	-24.37 dBm		

-26dB Bandwidth NVNT ac20 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 5.24 GHz 10001 pts Span 30.0 MHz

Marker

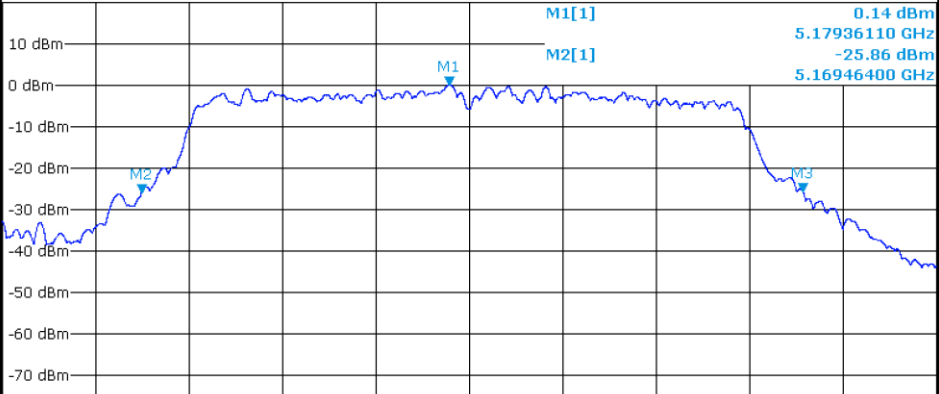
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2440676 GHz	1.54 dBm		
M2		1	5.229011 GHz	-24.40 dBm		
M3		1	5.250689 GHz	-24.46 dBm		

-26dB Bandwidth NVNT ac20 5180MHz Ant2

Spectrum

Ref Level 20.00 dBm Offset 3.98 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

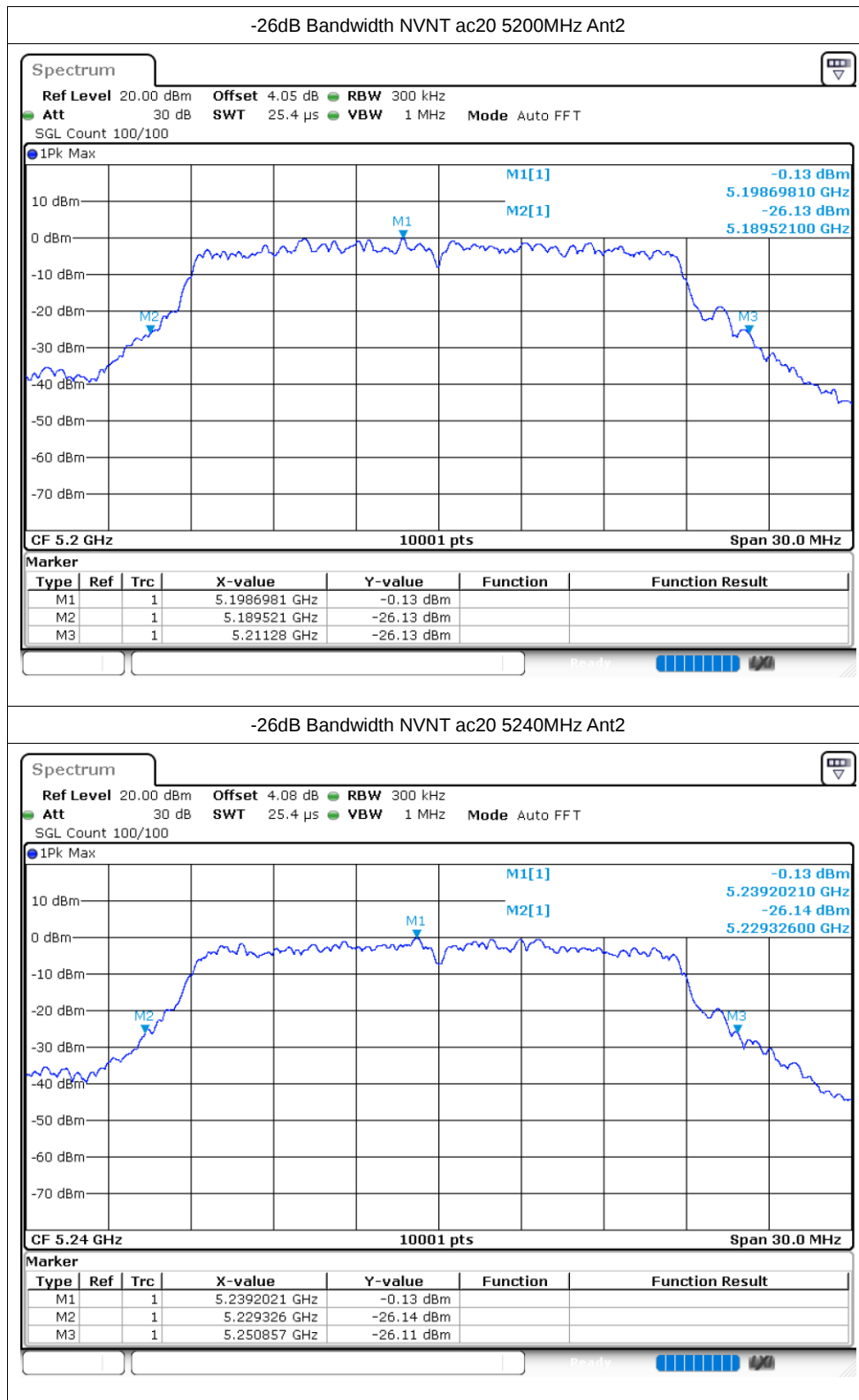
1Pk Max

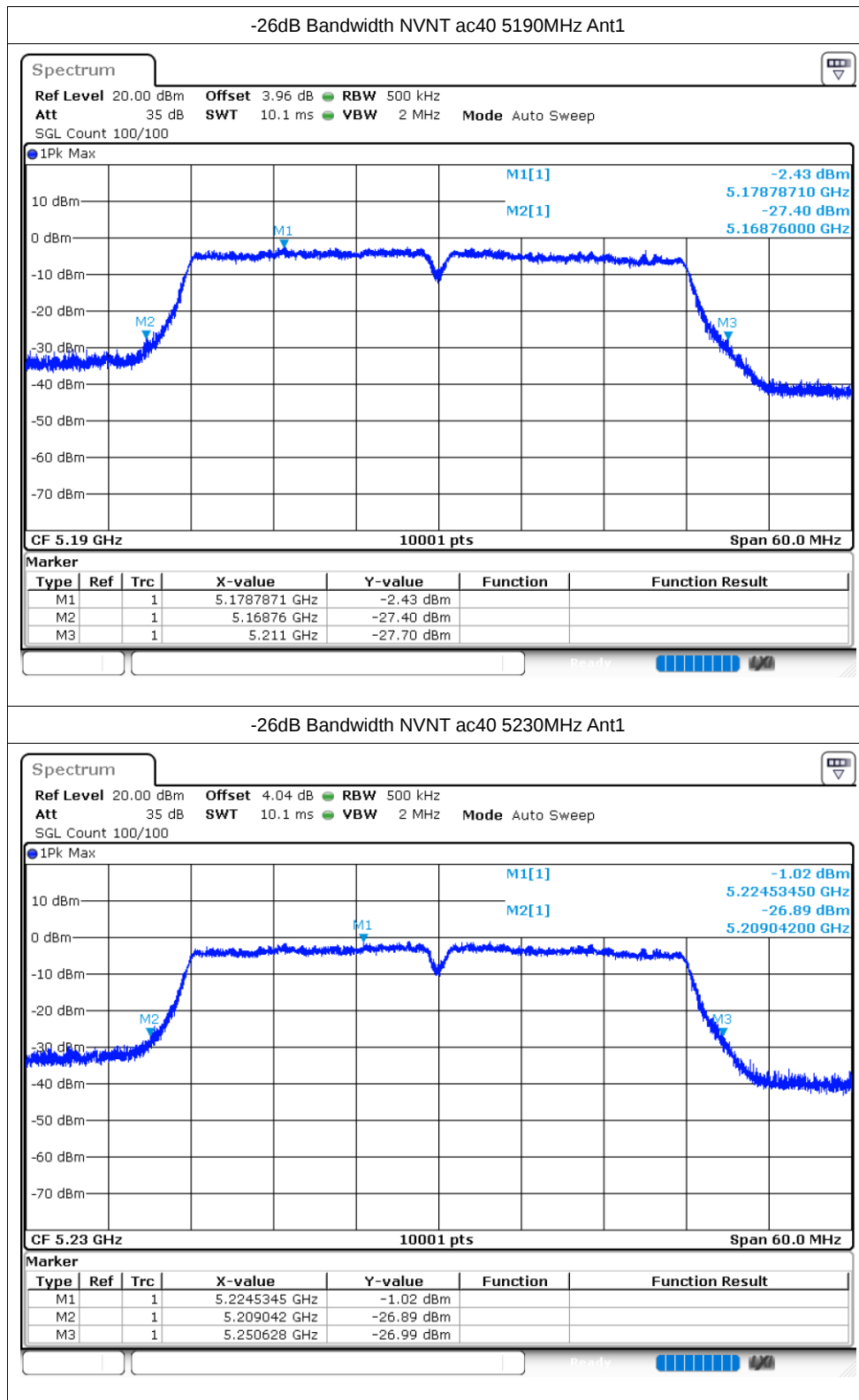


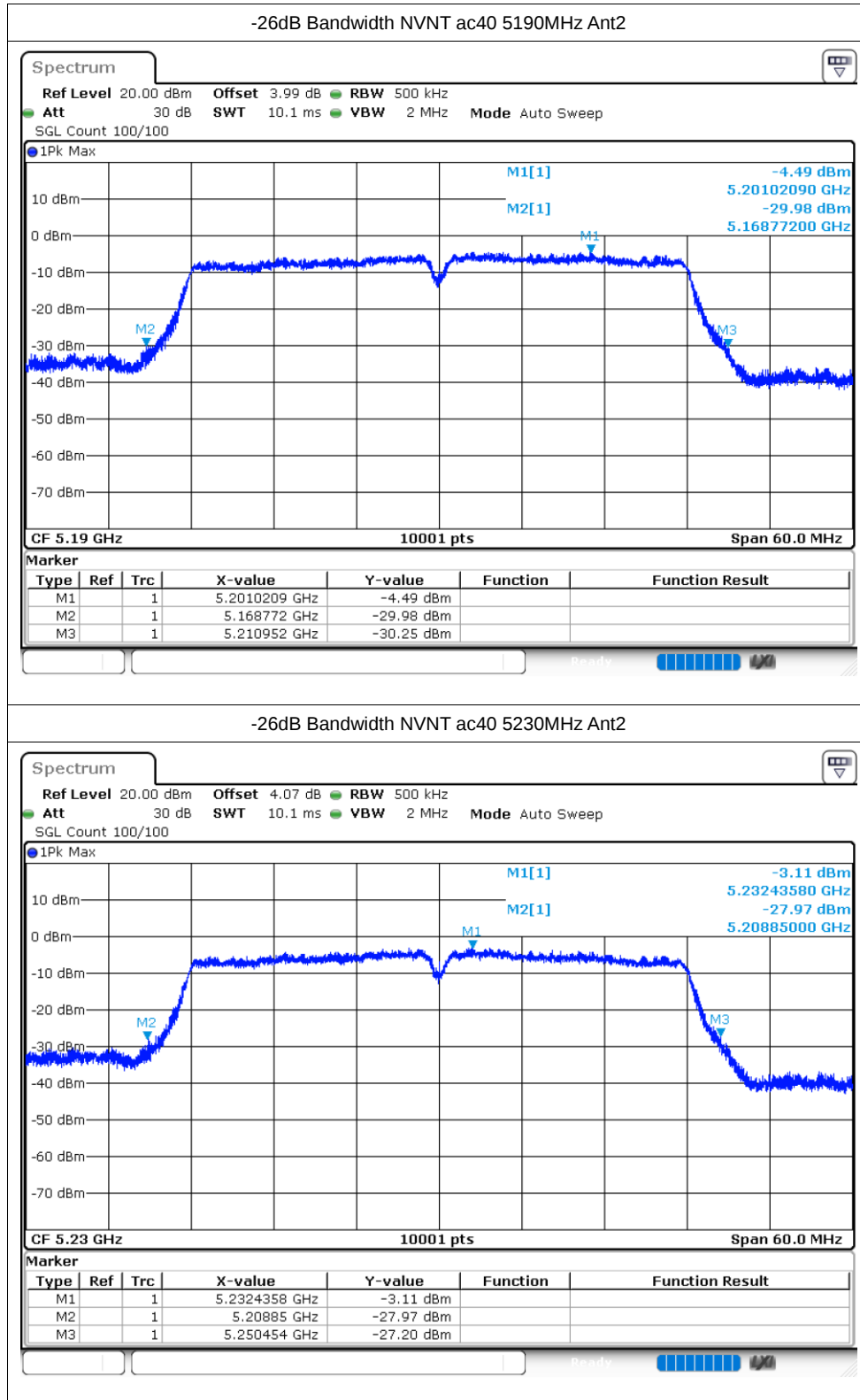
CF 5.18 GHz 10001 pts Span 30.0 MHz

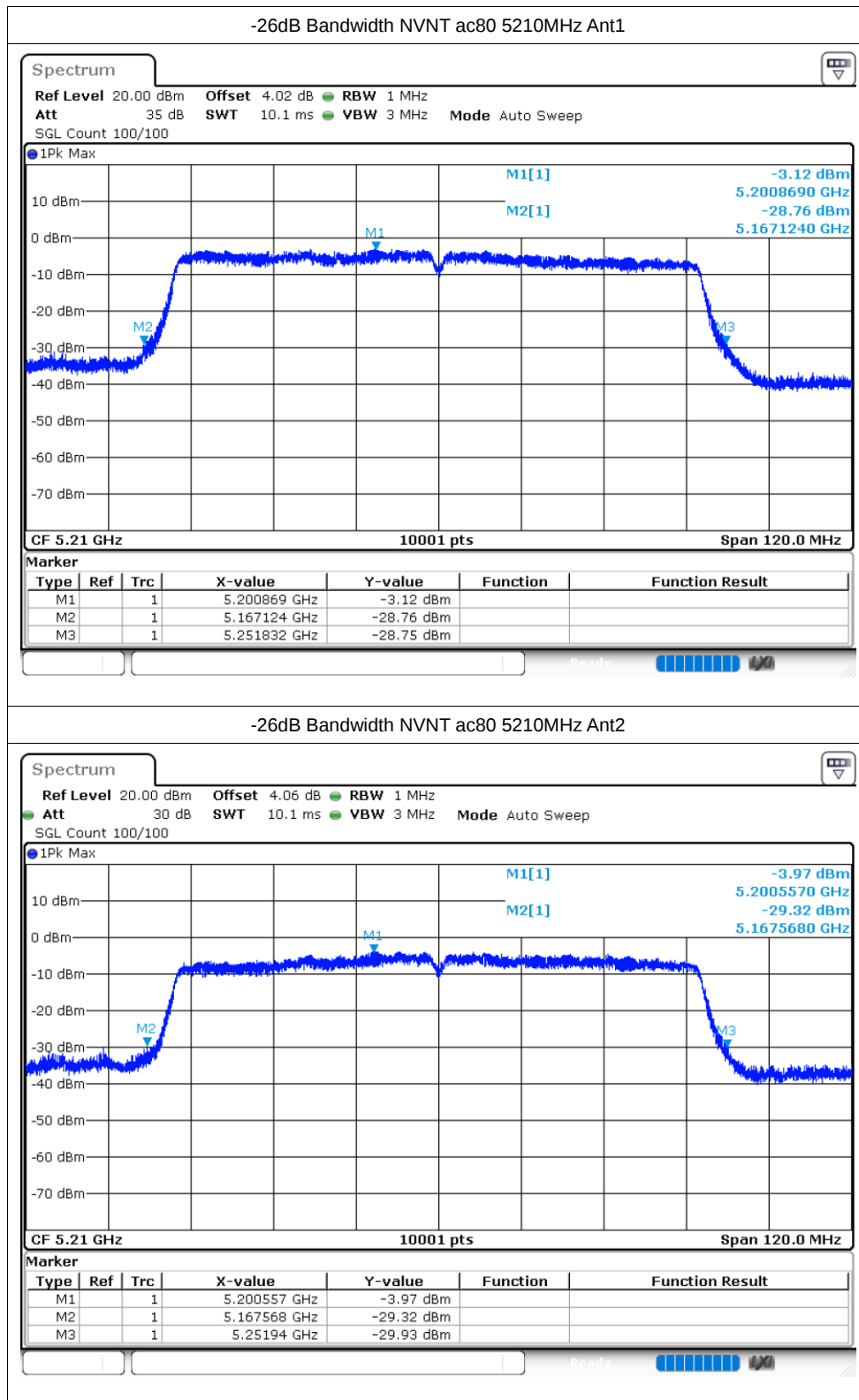
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.1793611 GHz	0.14 dBm		
M2		1	5.169464 GHz	-25.86 dBm		
M3		1	5.190713 GHz	-25.82 dBm		







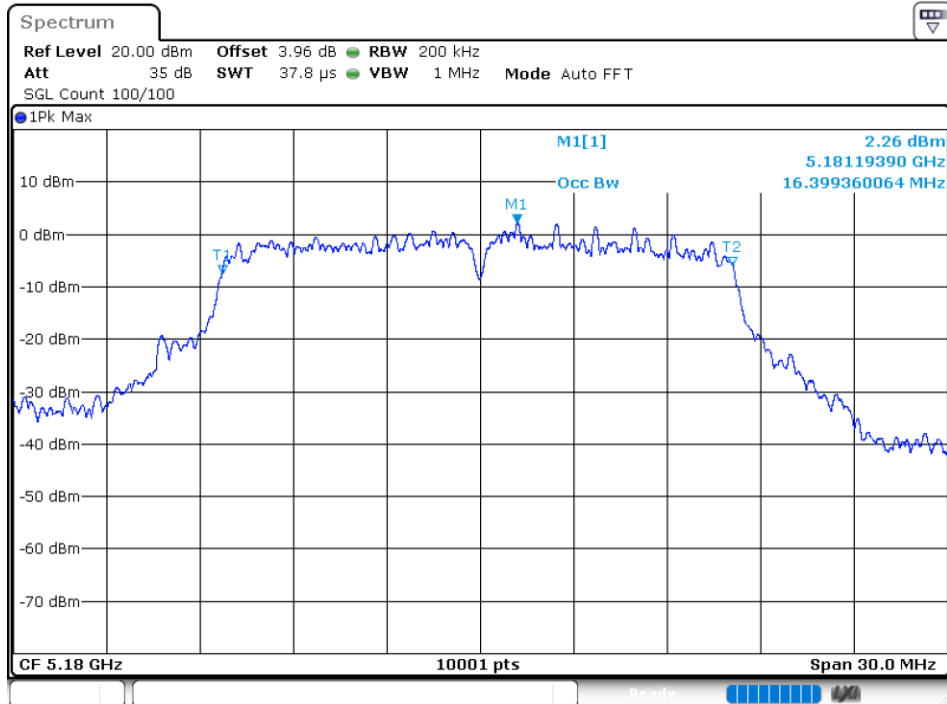


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.399
NVNT	a	5200	Ant1	16.432
NVNT	a	5240	Ant1	16.522
NVNT	a	5180	Ant2	20.026
NVNT	a	5200	Ant2	18.997
NVNT	a	5240	Ant2	18.433
NVNT	n20	5180	Ant1	17.665
NVNT	n20	5200	Ant1	17.653
NVNT	n20	5240	Ant1	17.638
NVNT	n20	5180	Ant2	18.181
NVNT	n20	5200	Ant2	17.92
NVNT	n20	5240	Ant2	17.905
NVNT	n40	5190	Ant1	36.29
NVNT	n40	5230	Ant1	36.248
NVNT	n40	5190	Ant2	36.29
NVNT	n40	5230	Ant2	36.2
NVNT	ac20	5180	Ant1	17.62
NVNT	ac20	5200	Ant1	17.632
NVNT	ac20	5240	Ant1	17.656
NVNT	ac20	5180	Ant2	18.148
NVNT	ac20	5200	Ant2	17.914
NVNT	ac20	5240	Ant2	17.965
NVNT	ac40	5190	Ant1	36.284
NVNT	ac40	5230	Ant1	36.248
NVNT	ac40	5190	Ant2	36.248
NVNT	ac40	5230	Ant2	36.17
NVNT	ac80	5210	Ant1	75.82
NVNT	ac80	5210	Ant2	75.652

Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1

