

5.2G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.6	0.11	0.71
NVNT	a	5200	Ant1	97.6	0.11	0.72
NVNT	a	5240	Ant1	97.63	0.1	0.72
NVNT	n20	5180	Ant1	97.44	0.11	0.77
NVNT	n20	5200	Ant1	97.44	0.11	0.77
NVNT	n20	5240	Ant1	97.4	0.11	0.77
NVNT	n40	5190	Ant1	95.08	0.22	1.56
NVNT	n40	5230	Ant1	95.06	0.22	1.54
NVNT	ac20	5180	Ant1	97.48	0.11	0.76
NVNT	ac20	5200	Ant1	97.43	0.11	0.76
NVNT	ac20	5240	Ant1	97.47	0.11	0.76
NVNT	ac40	5190	Ant1	95.1	0.22	1.54
NVNT	ac40	5230	Ant1	95.13	0.22	1.54
NVNT	ac80	5210	Ant1	90.62	0.43	3.13

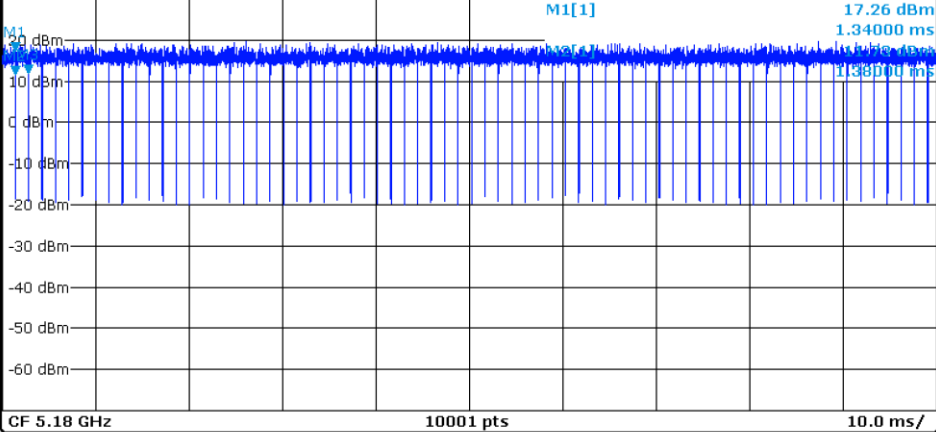
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 3.96 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

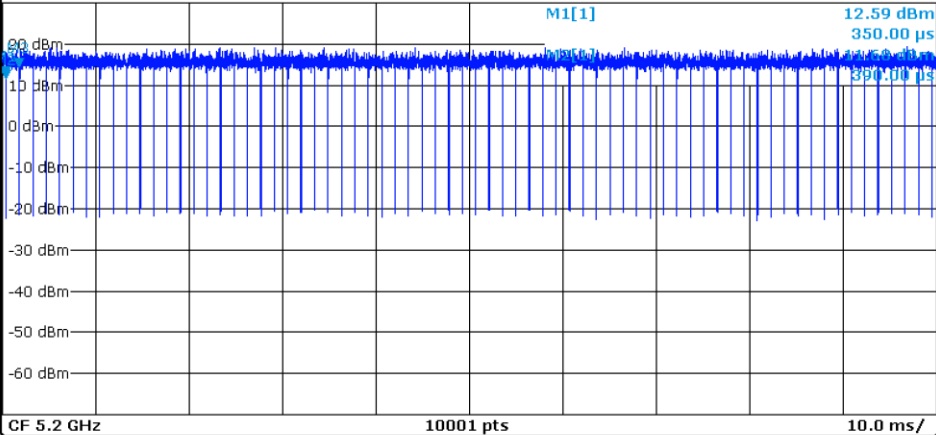
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.34 ms	17.26 dBm		
M2		1	1.38 ms	11.73 dBm		
M3		1	2.78 ms	12.03 dBm		

Duty Cycle NVNT a 5200MHz Ant1

Spectrum

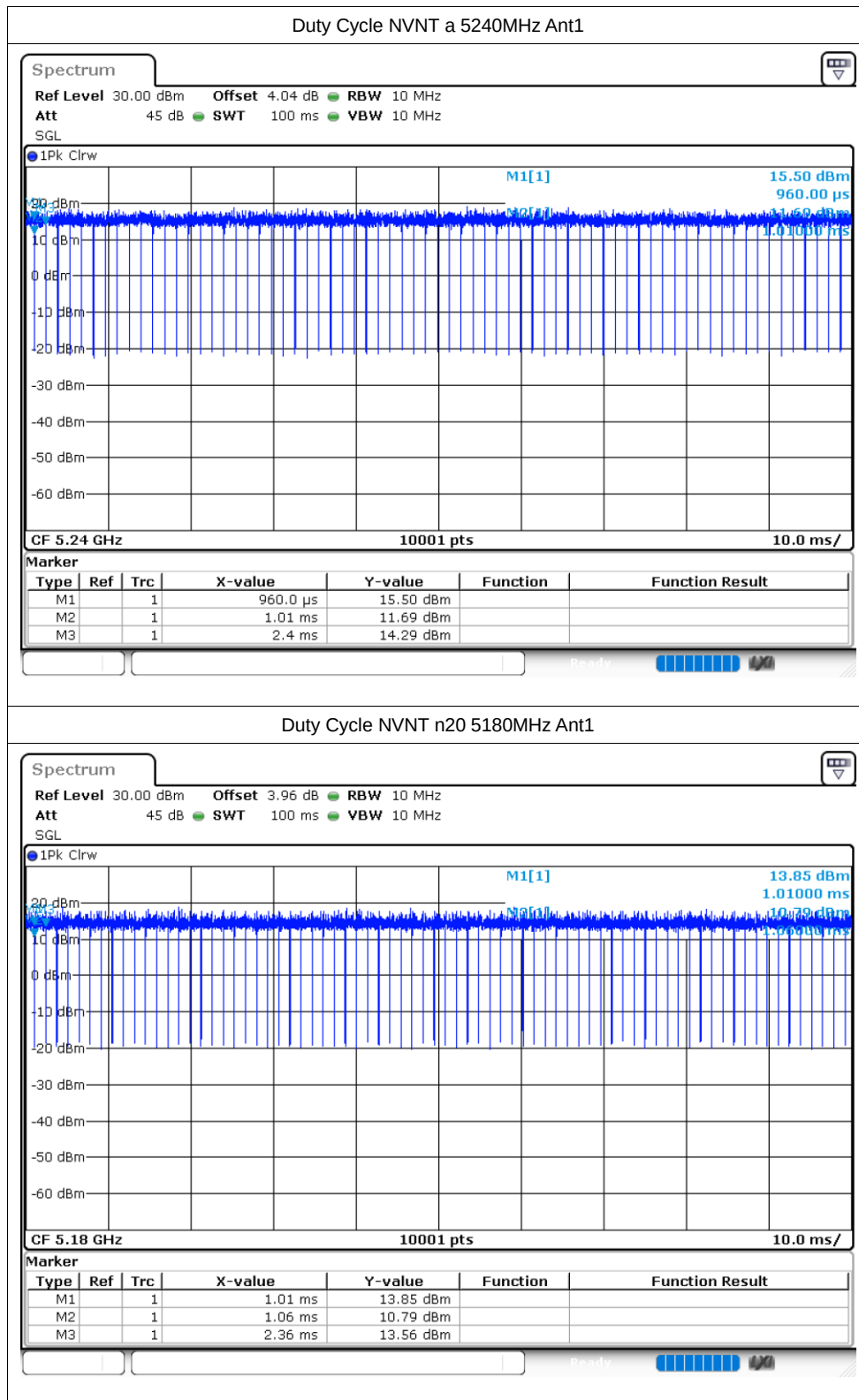
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

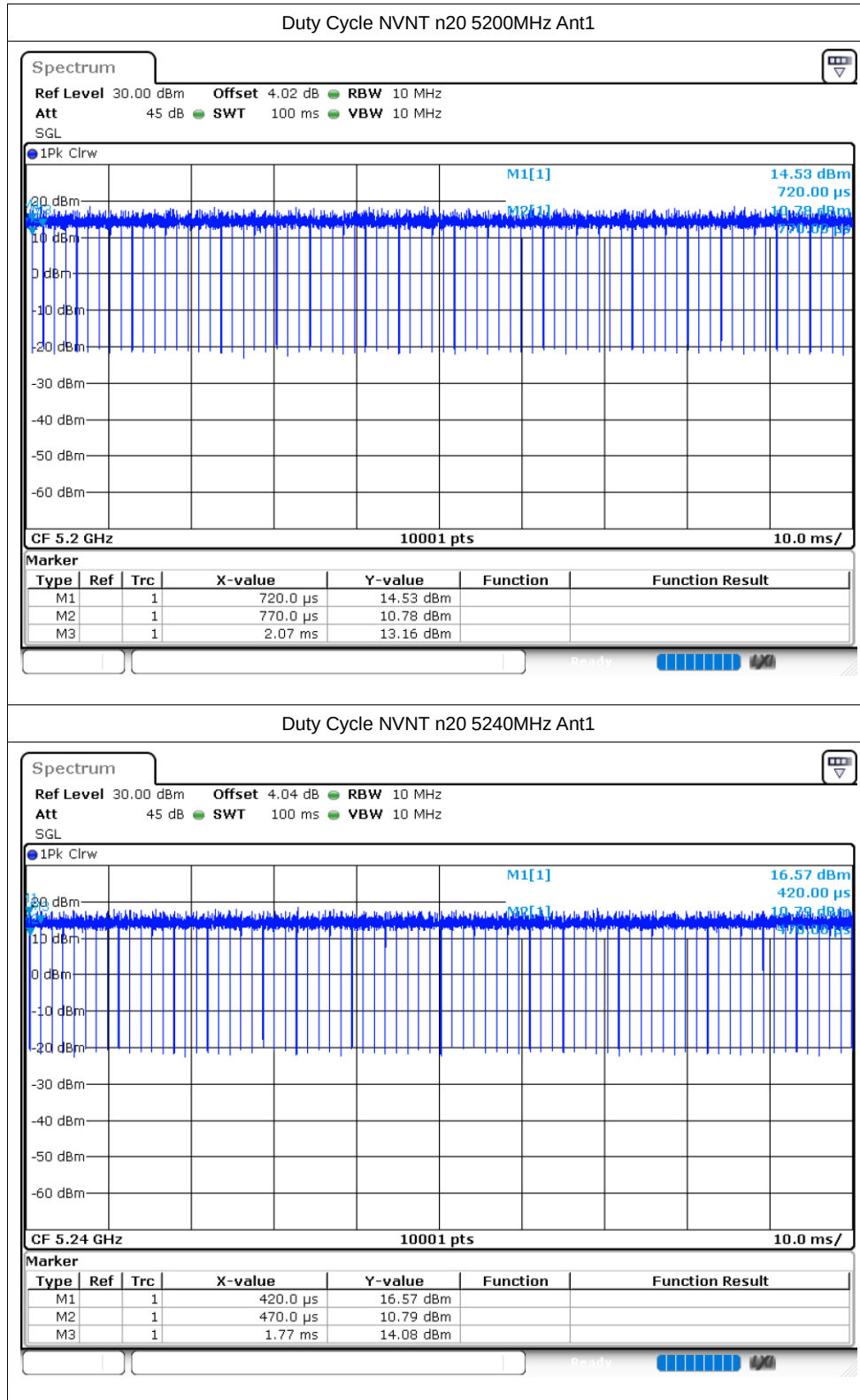
1Pk Clrw

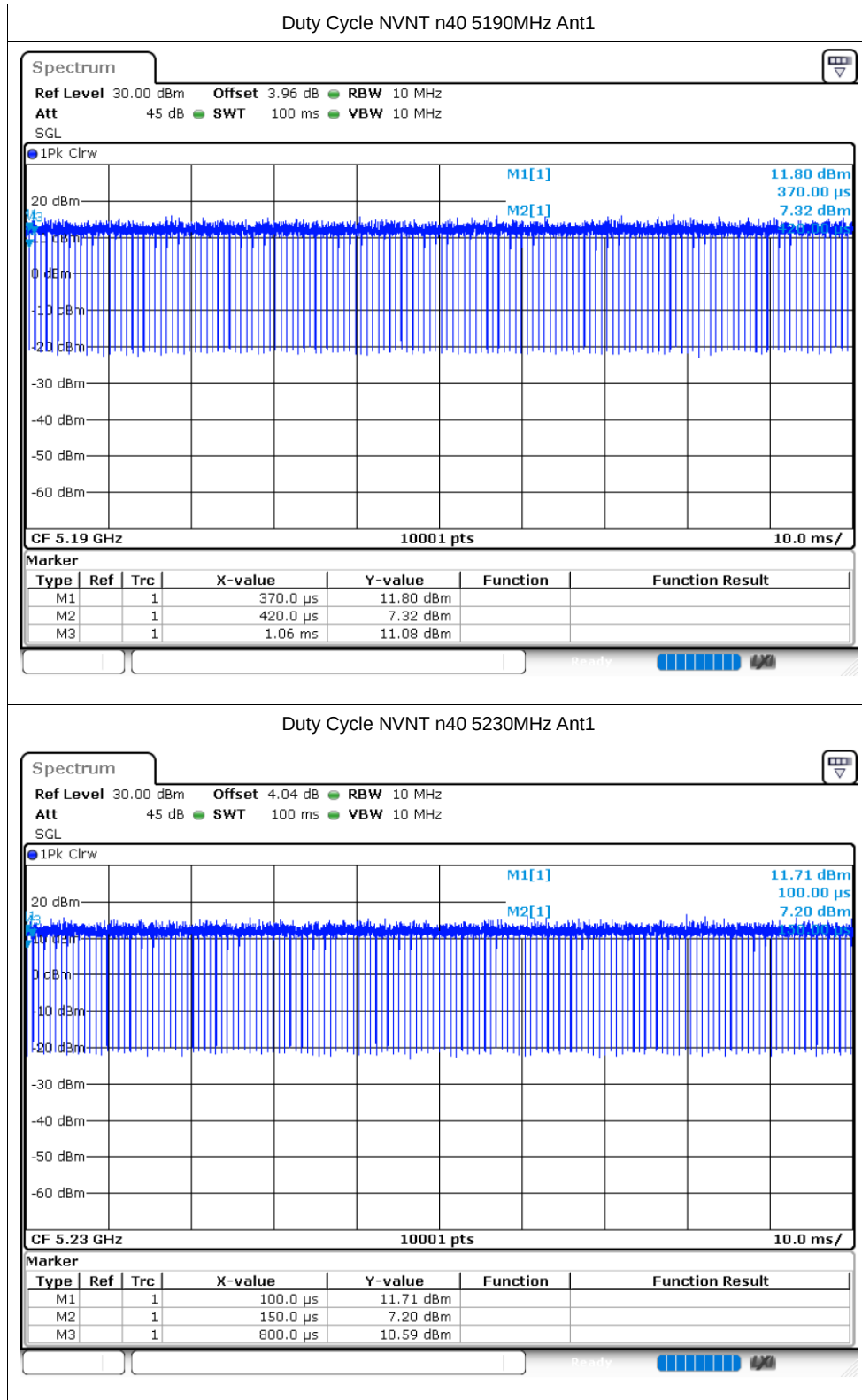


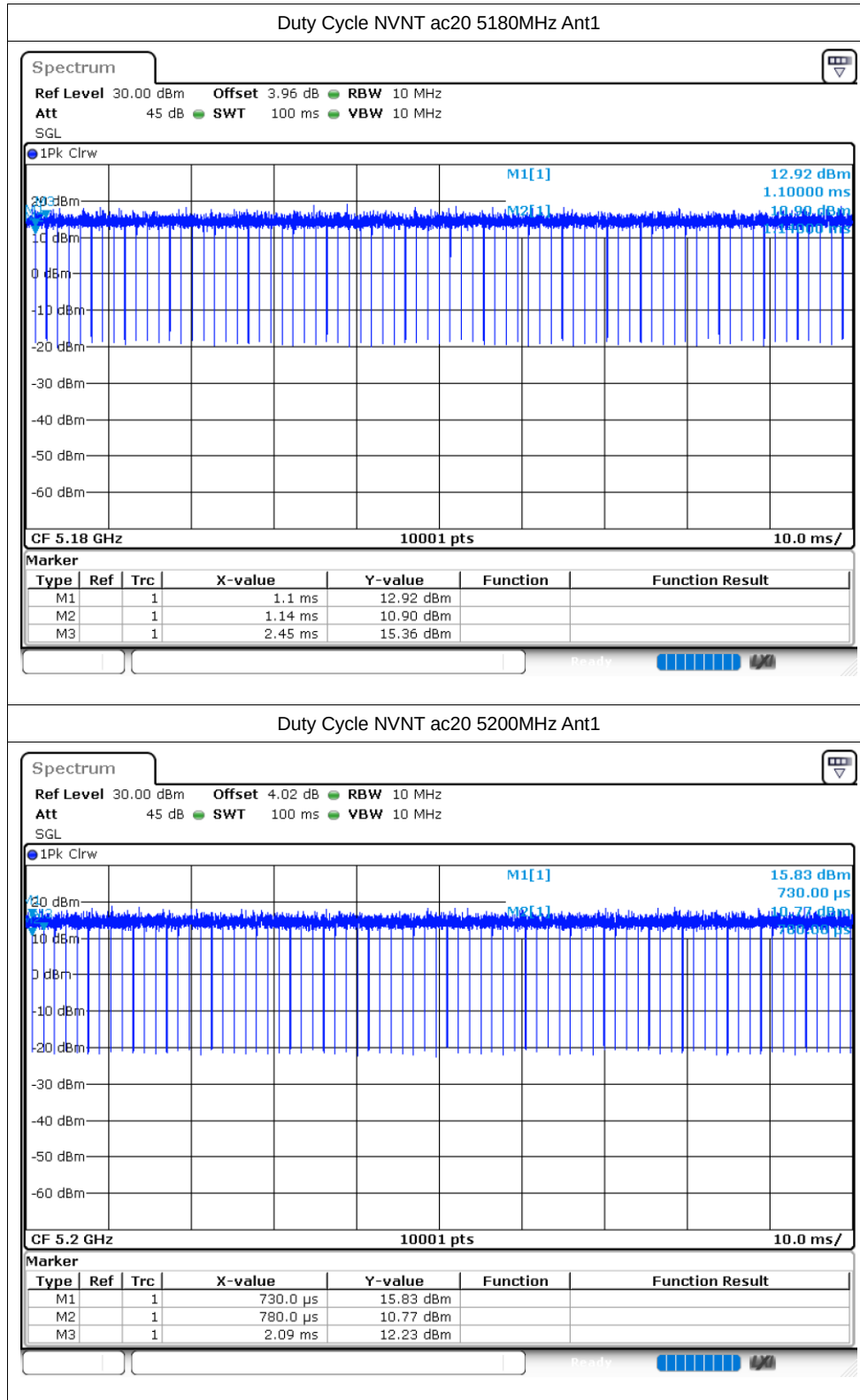
Marker

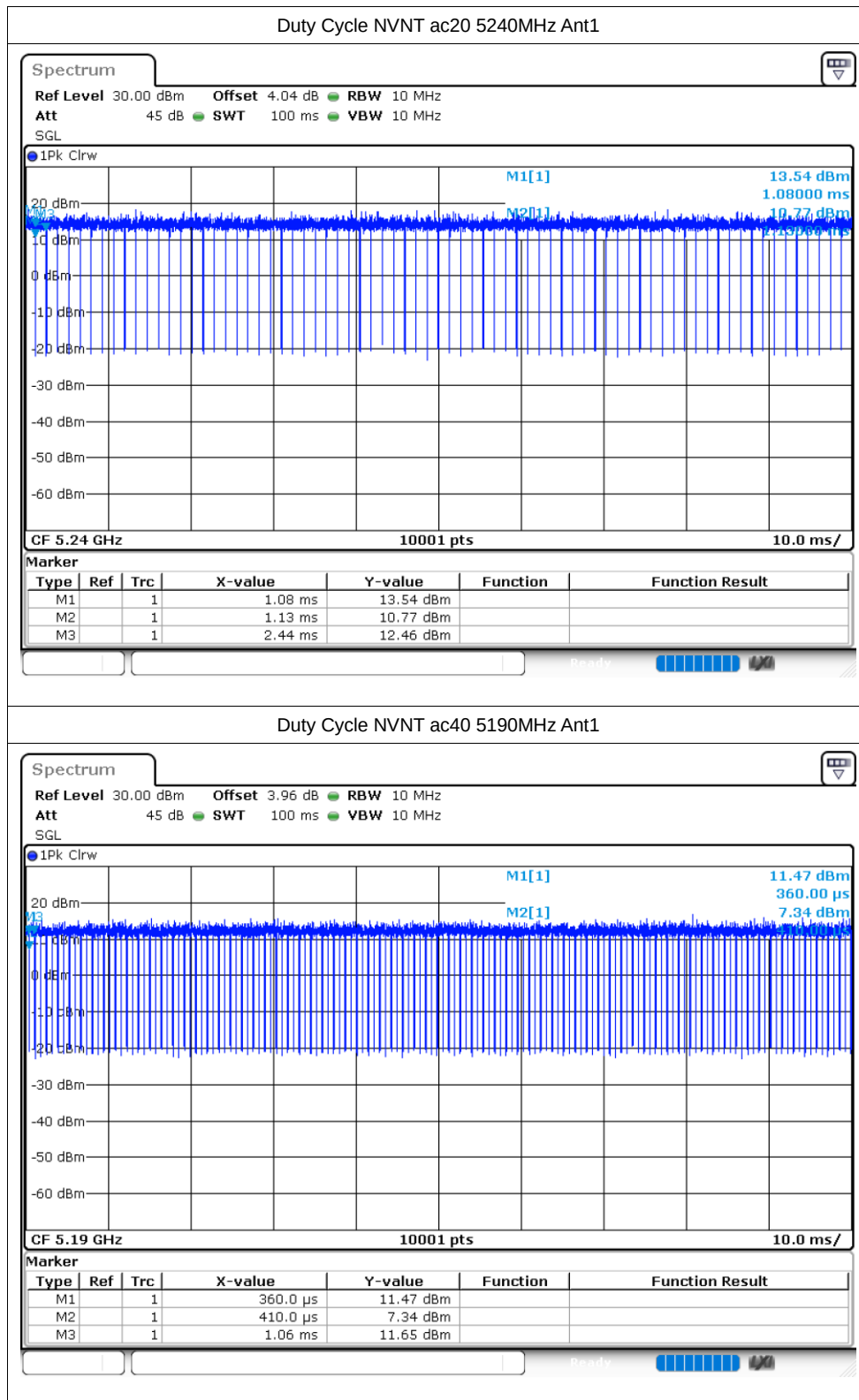
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	350.0 μs	12.59 dBm		
M2		1	390.0 μs	11.68 dBm		
M3		1	1.78 ms	14.53 dBm		

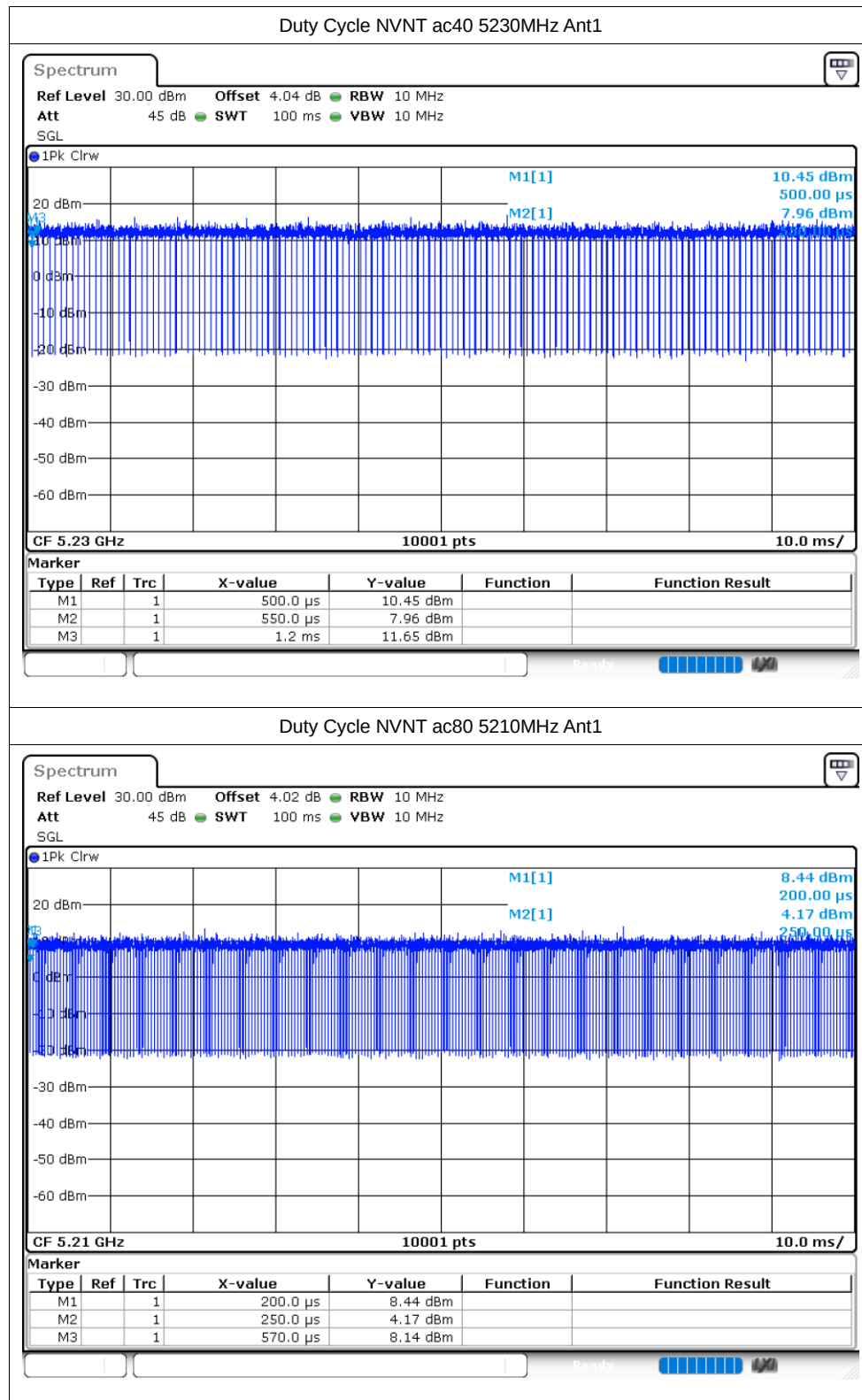












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.86	24	Pass
NVNT	a	5200	Ant1	11.01	24	Pass
NVNT	a	5240	Ant1	11.33	24	Pass
NVNT	n20	5180	Ant1	9.88	24	Pass
NVNT	n20	5200	Ant1	9.78	24	Pass
NVNT	n20	5240	Ant1	10.28	24	Pass
NVNT	n40	5190	Ant1	9.98	24	Pass
NVNT	n40	5230	Ant1	10.16	24	Pass
NVNT	ac20	5180	Ant1	9.76	24	Pass
NVNT	ac20	5200	Ant1	9.92	24	Pass
NVNT	ac20	5240	Ant1	10.39	24	Pass
NVNT	ac40	5190	Ant1	9.81	24	Pass
NVNT	ac40	5230	Ant1	10.15	24	Pass
NVNT	ac80	5210	Ant1	9.99	24	Pass

Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	19.773
NVNT	a	5200	Ant1	19.767
NVNT	a	5240	Ant1	19.767
NVNT	n20	5180	Ant1	20.274
NVNT	n20	5200	Ant1	20.256
NVNT	n20	5240	Ant1	20.334
NVNT	n40	5190	Ant1	40.65
NVNT	n40	5230	Ant1	40.734
NVNT	ac20	5180	Ant1	20.169
NVNT	ac20	5200	Ant1	20.238
NVNT	ac20	5240	Ant1	20.166
NVNT	ac40	5190	Ant1	40.674
NVNT	ac40	5230	Ant1	40.674
NVNT	ac80	5210	Ant1	80.988

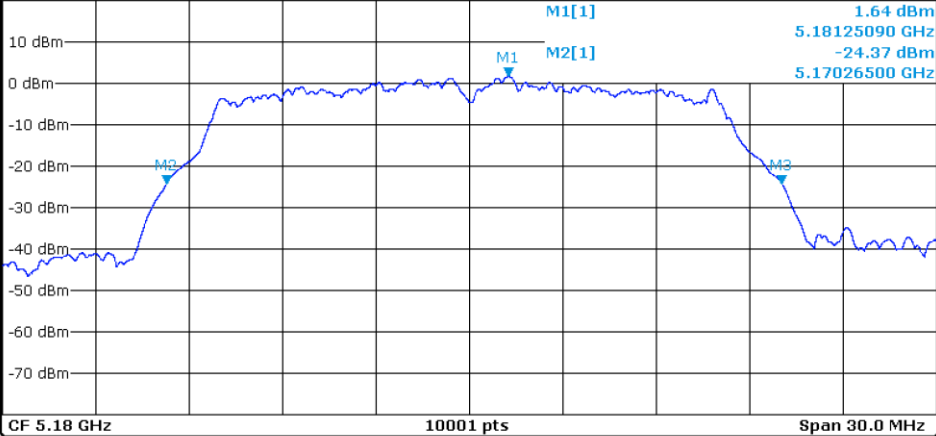
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

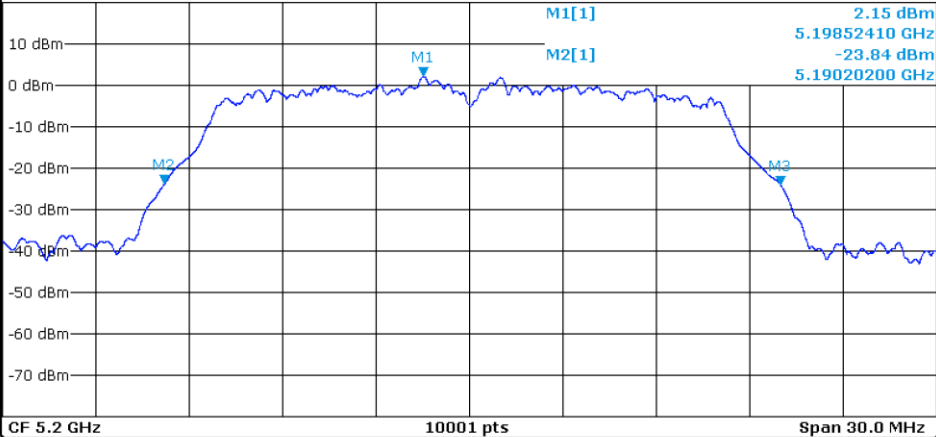


-26dB Bandwidth NVNT a 5200MHz Ant1

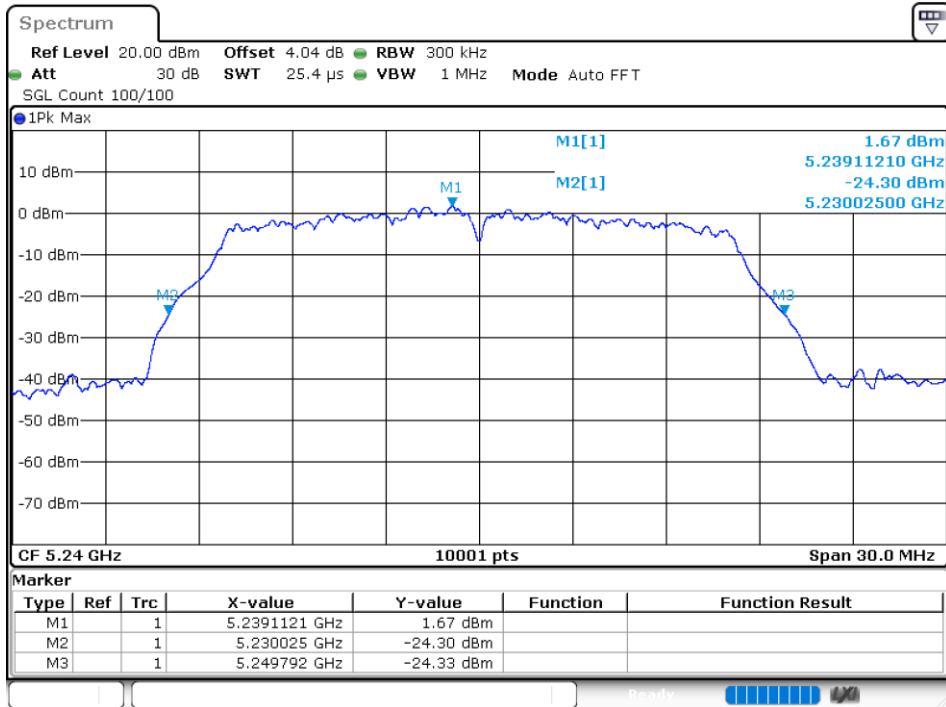
Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

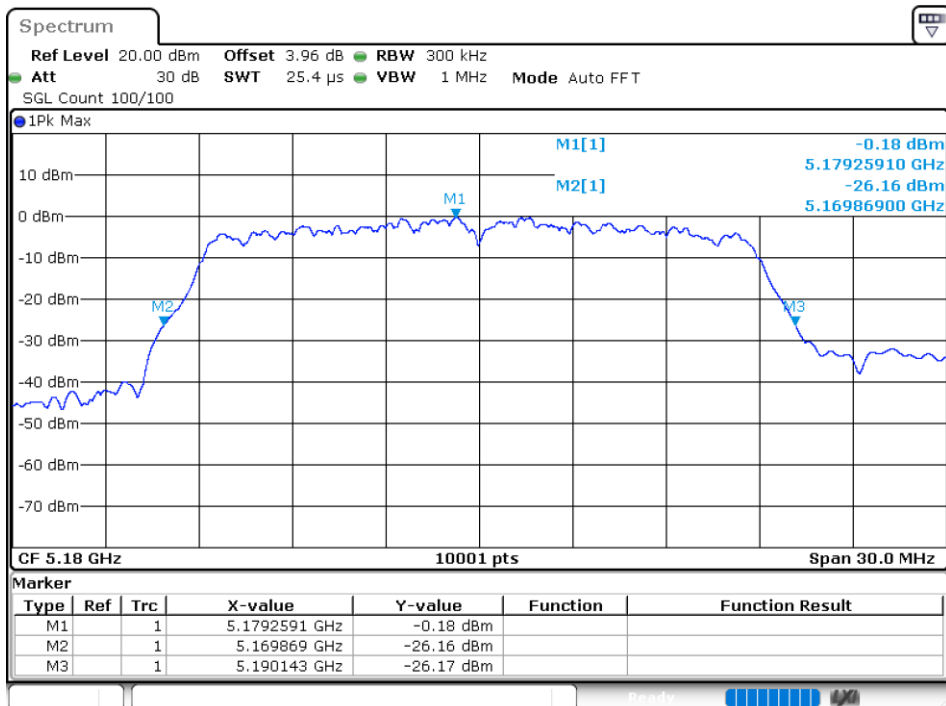
1Pk Max

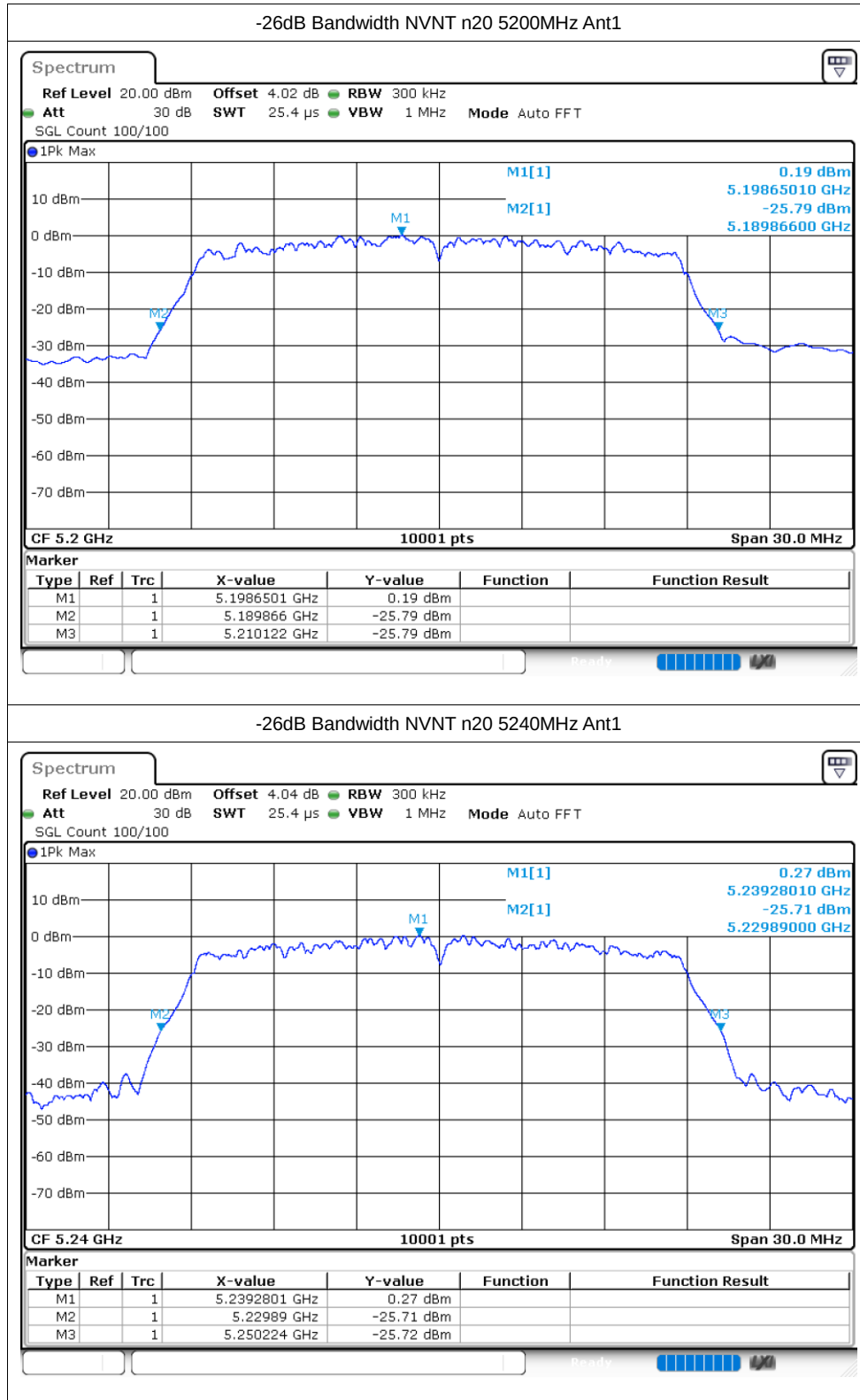


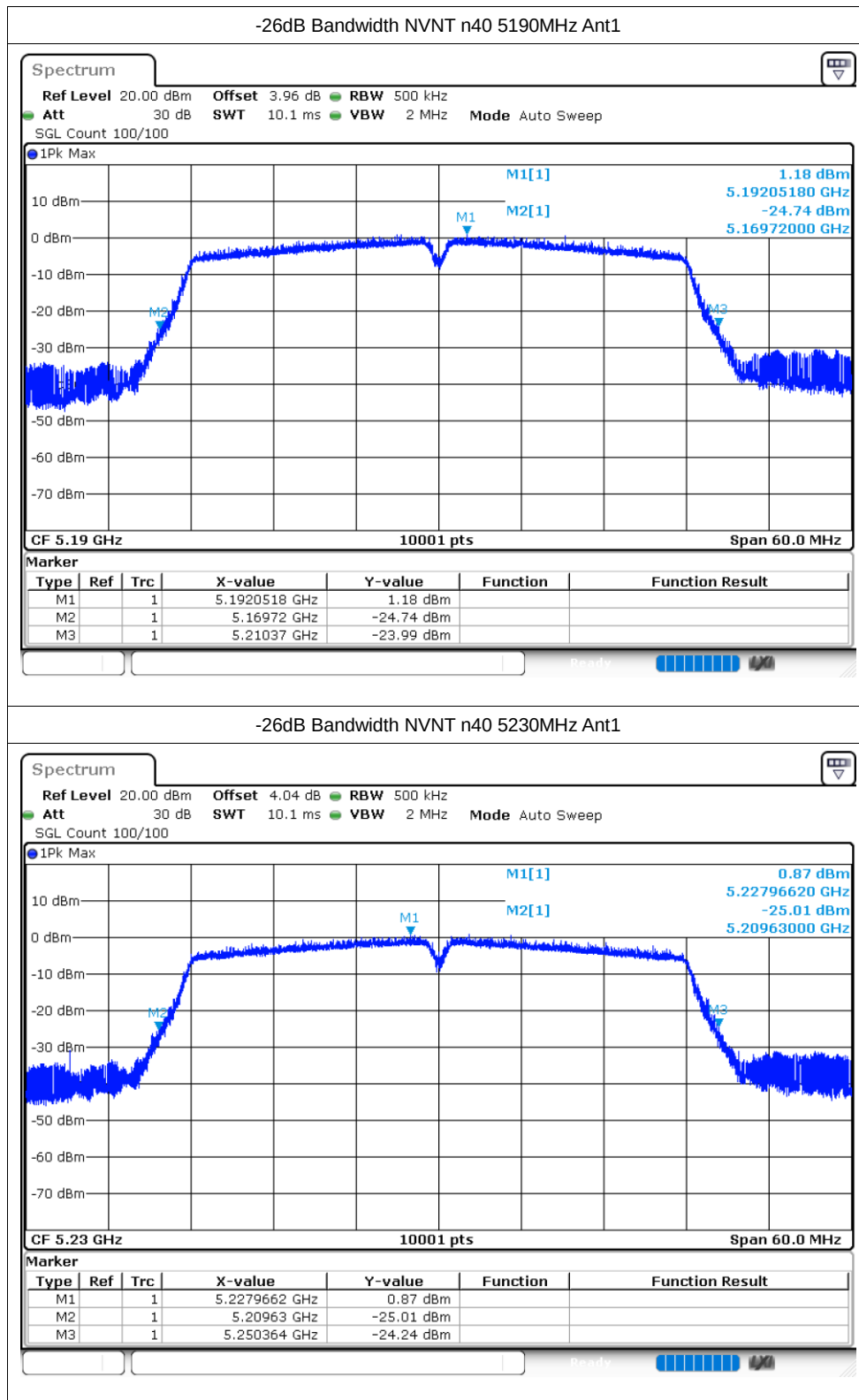
-26dB Bandwidth NVNT a 5240MHz Ant1



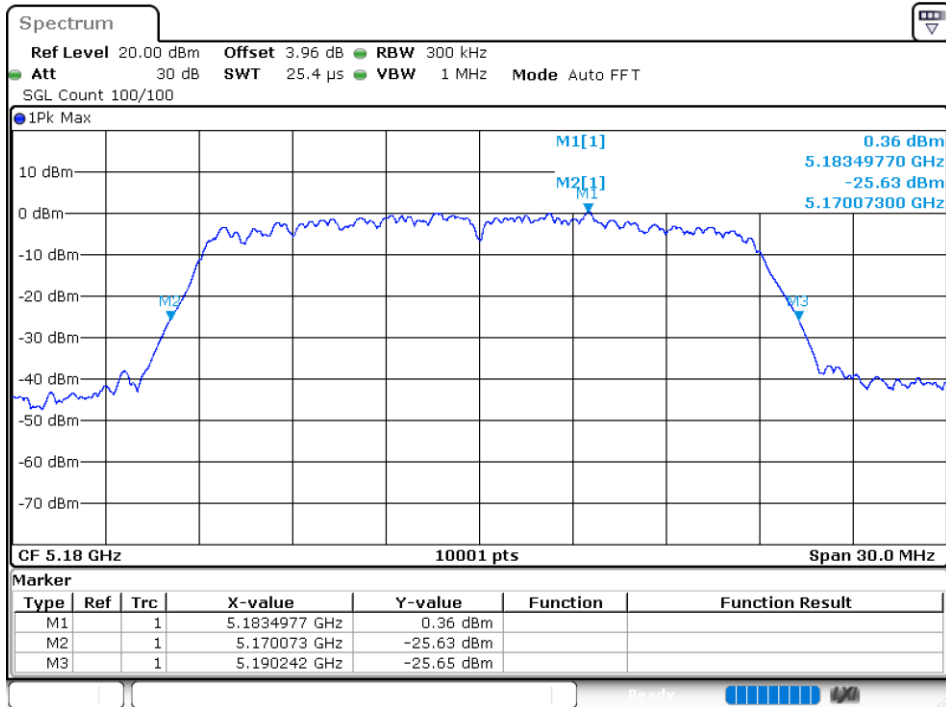
-26dB Bandwidth NVNT n20 5180MHz Ant1



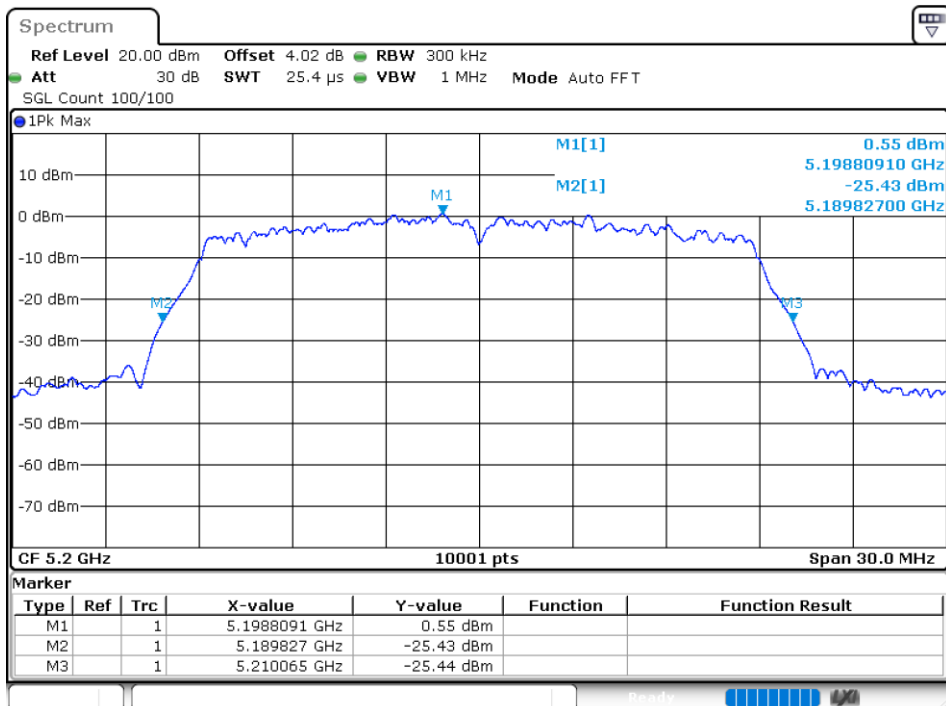




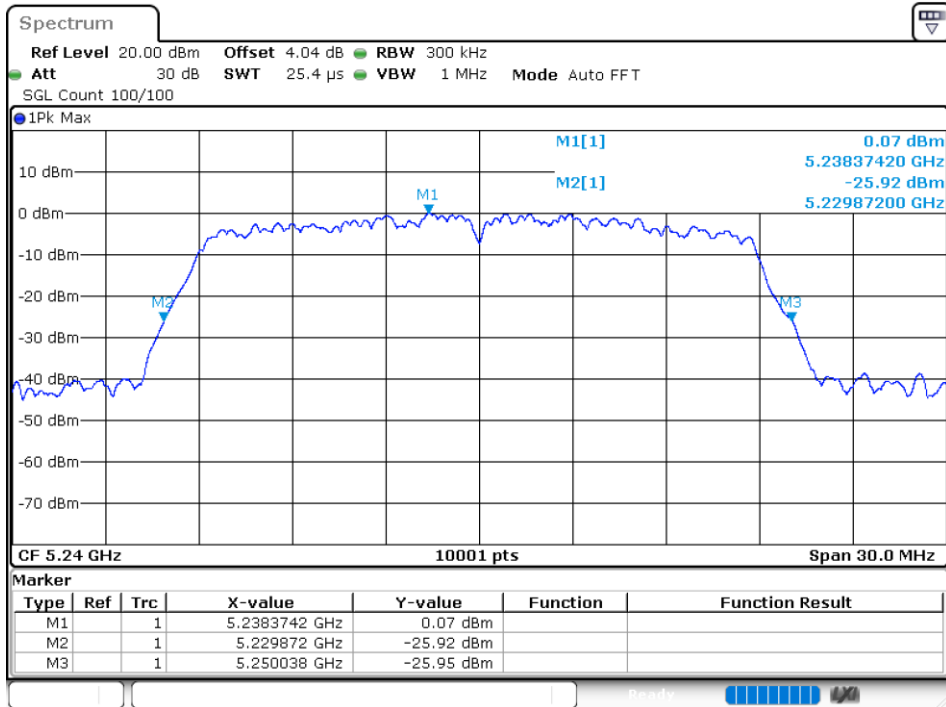
-26dB Bandwidth NVNT ac20 5180MHz Ant1



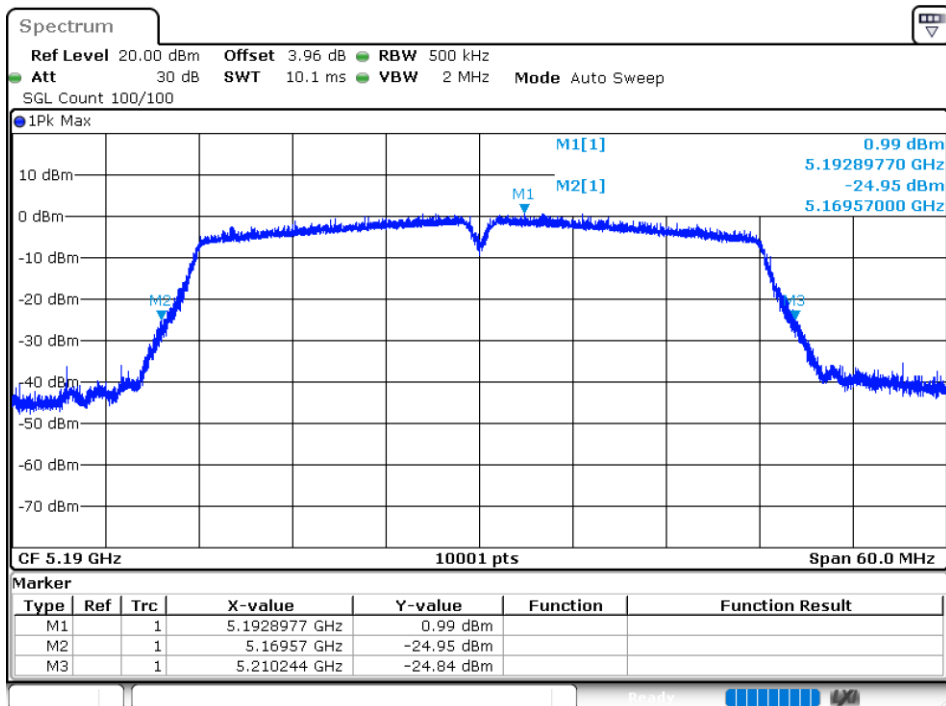
-26dB Bandwidth NVNT ac20 5200MHz Ant1

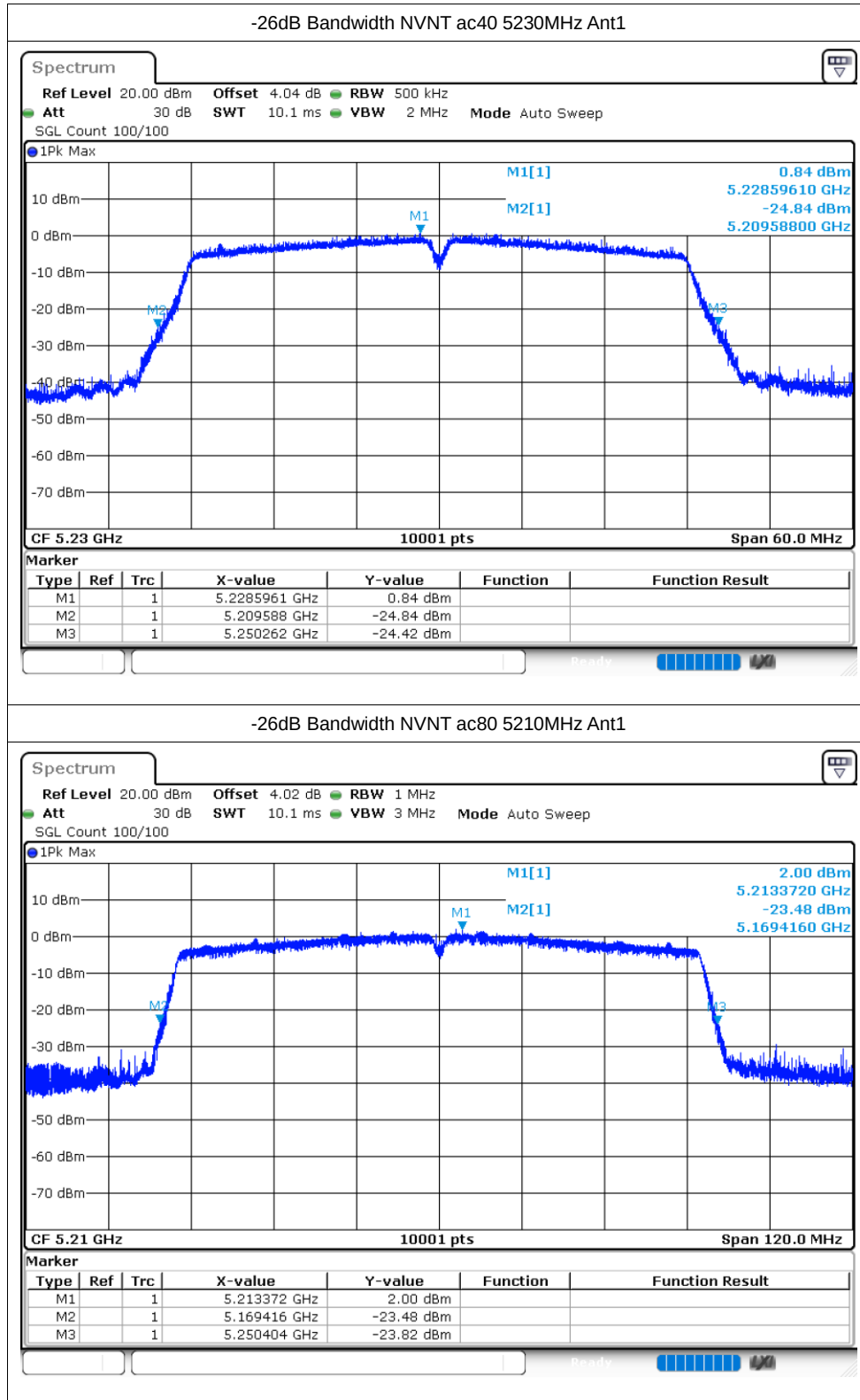


-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



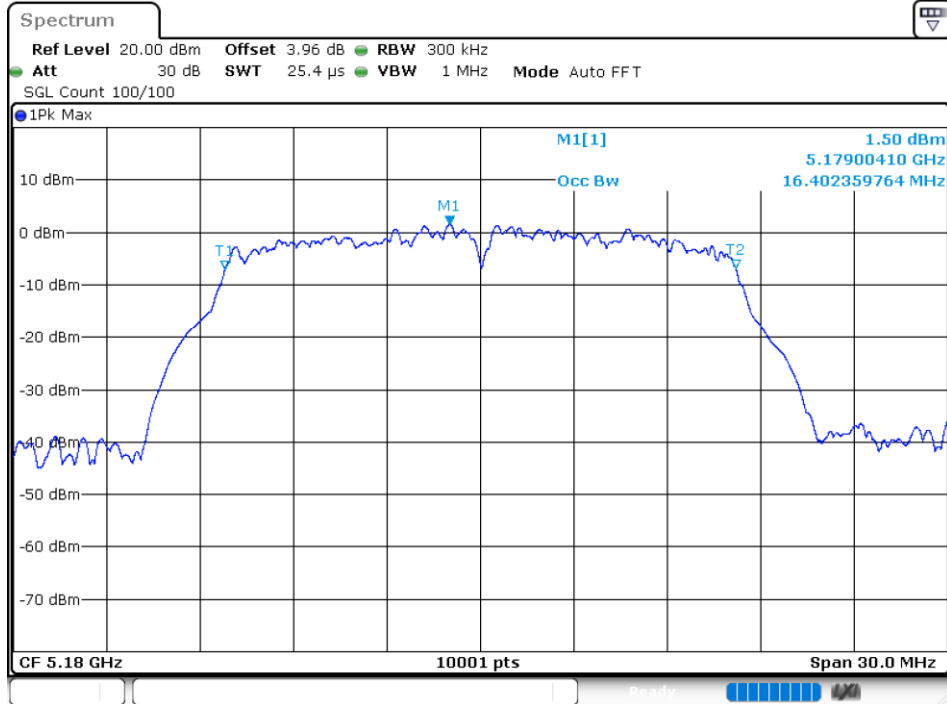


Occupied Channel Bandwidth

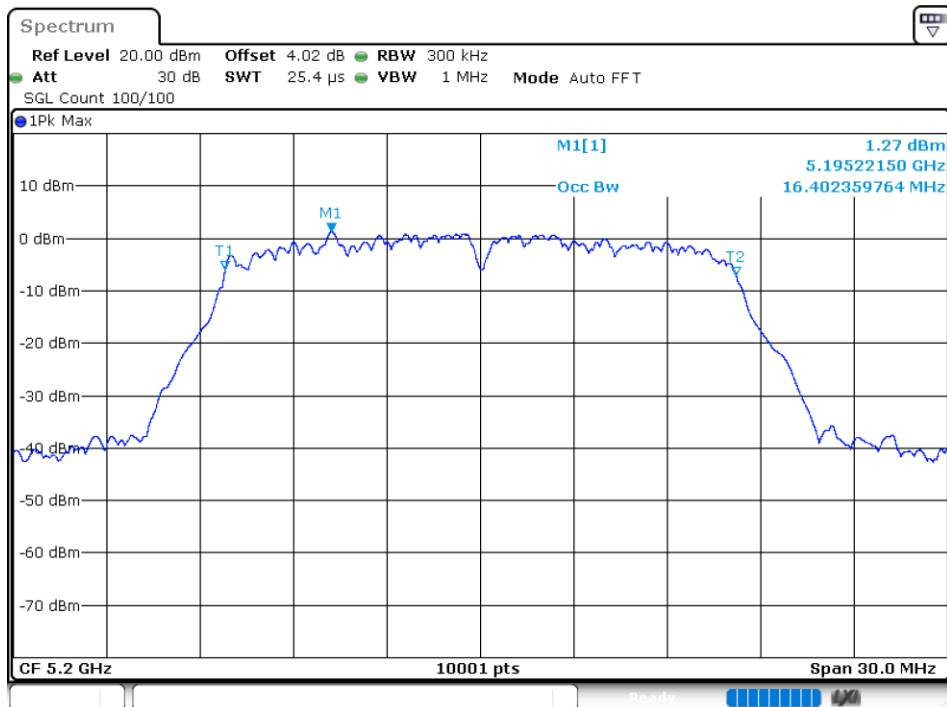
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.402
NVNT	a	5200	Ant1	16.402
NVNT	a	5240	Ant1	16.495
NVNT	n20	5180	Ant1	17.557
NVNT	n20	5200	Ant1	17.644
NVNT	n20	5240	Ant1	17.479
NVNT	n40	5190	Ant1	35.978
NVNT	n40	5230	Ant1	36.02
NVNT	ac20	5180	Ant1	17.632
NVNT	ac20	5200	Ant1	17.776
NVNT	ac20	5240	Ant1	17.569
NVNT	ac40	5190	Ant1	35.942
NVNT	ac40	5230	Ant1	36.02
NVNT	ac80	5210	Ant1	75.136

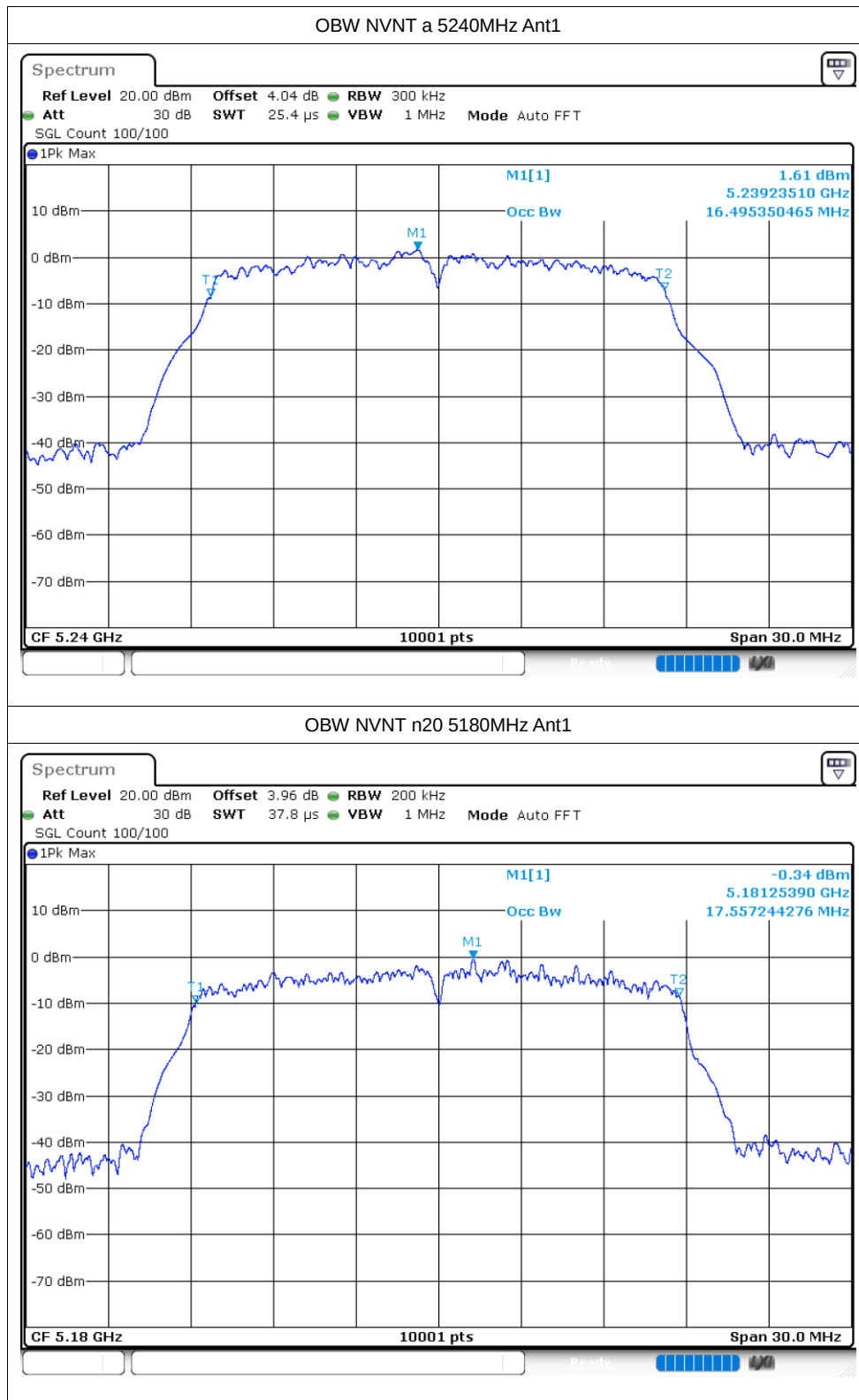
Test Graphs

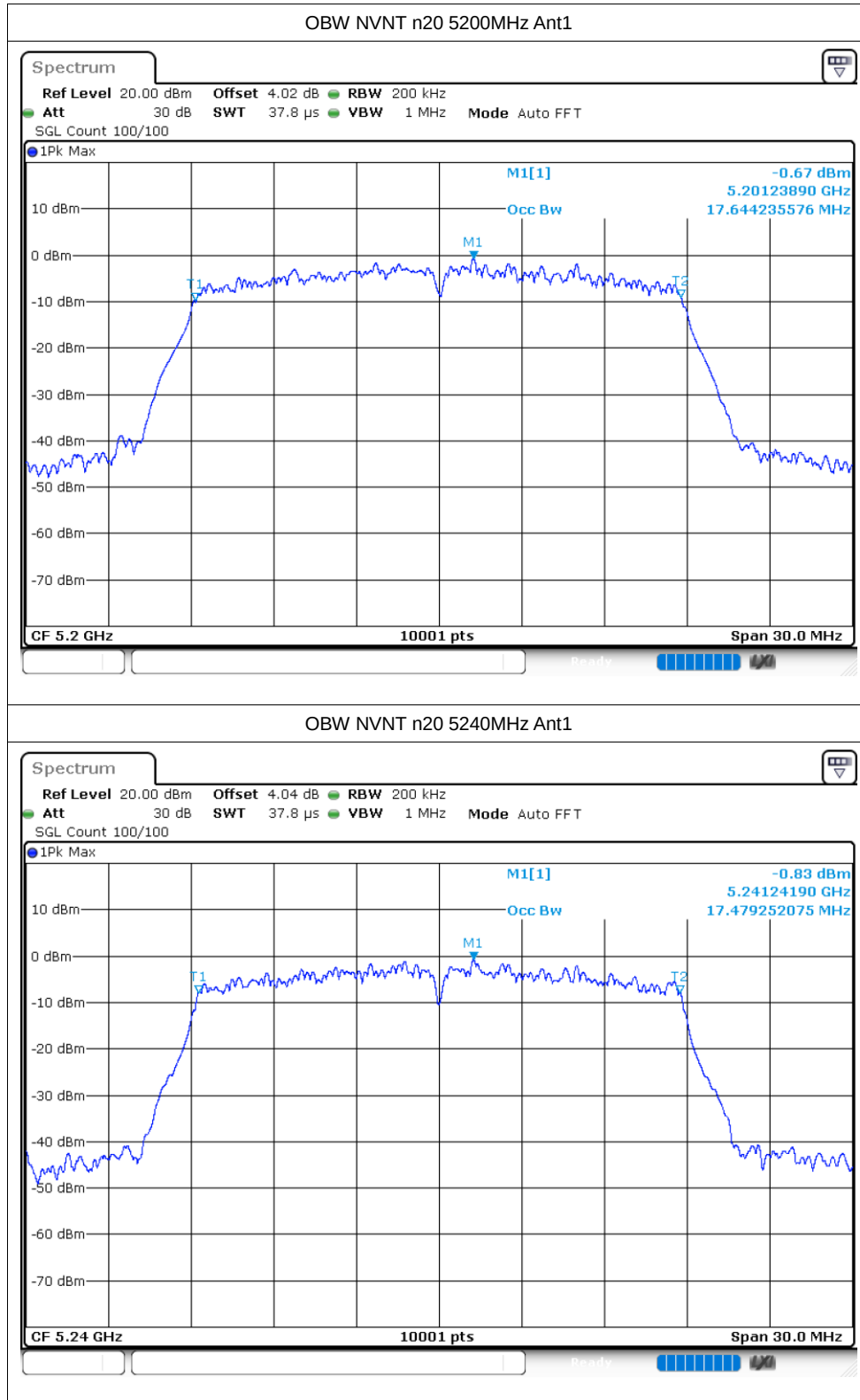
OBW NVNT a 5180MHz Ant1

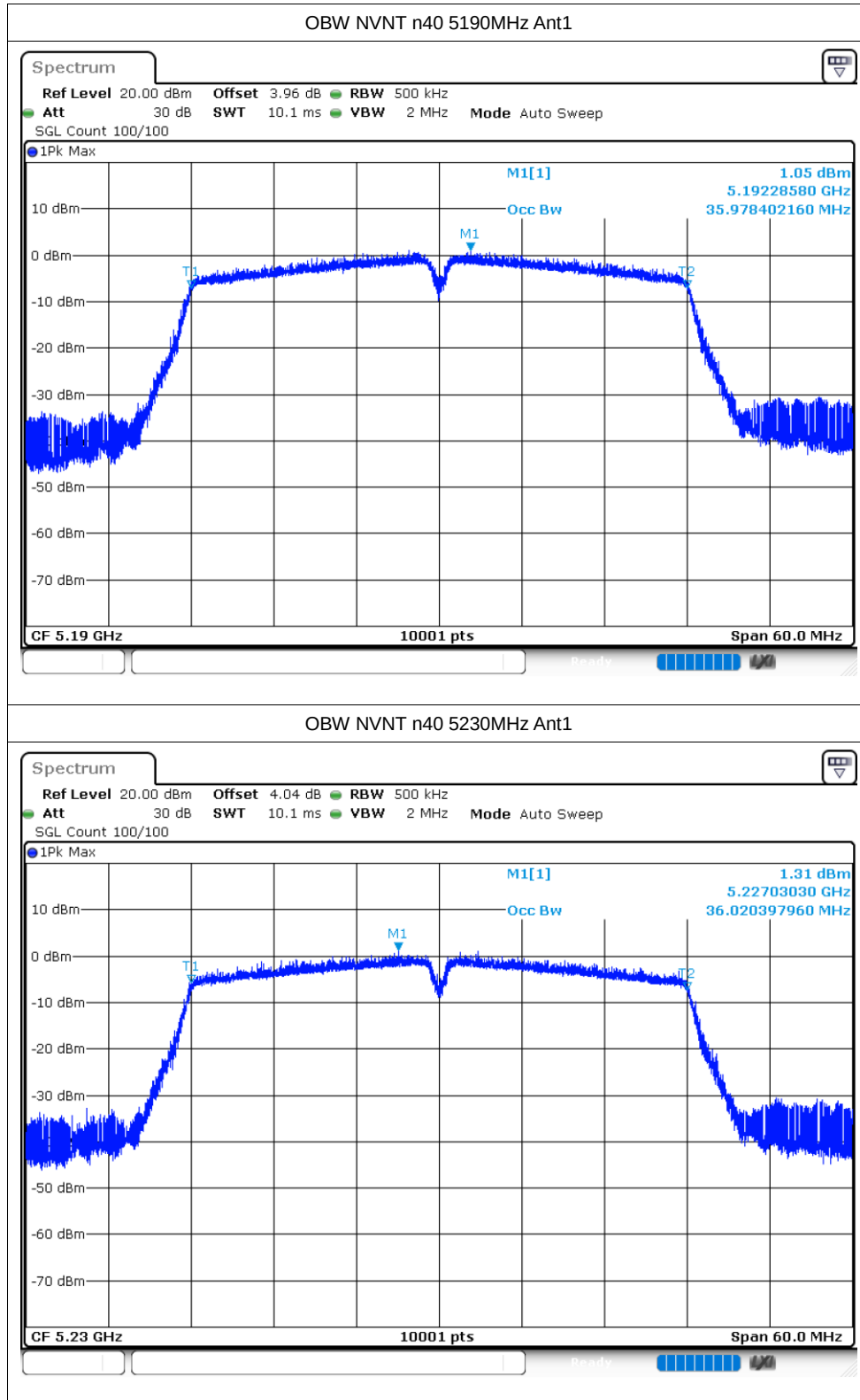


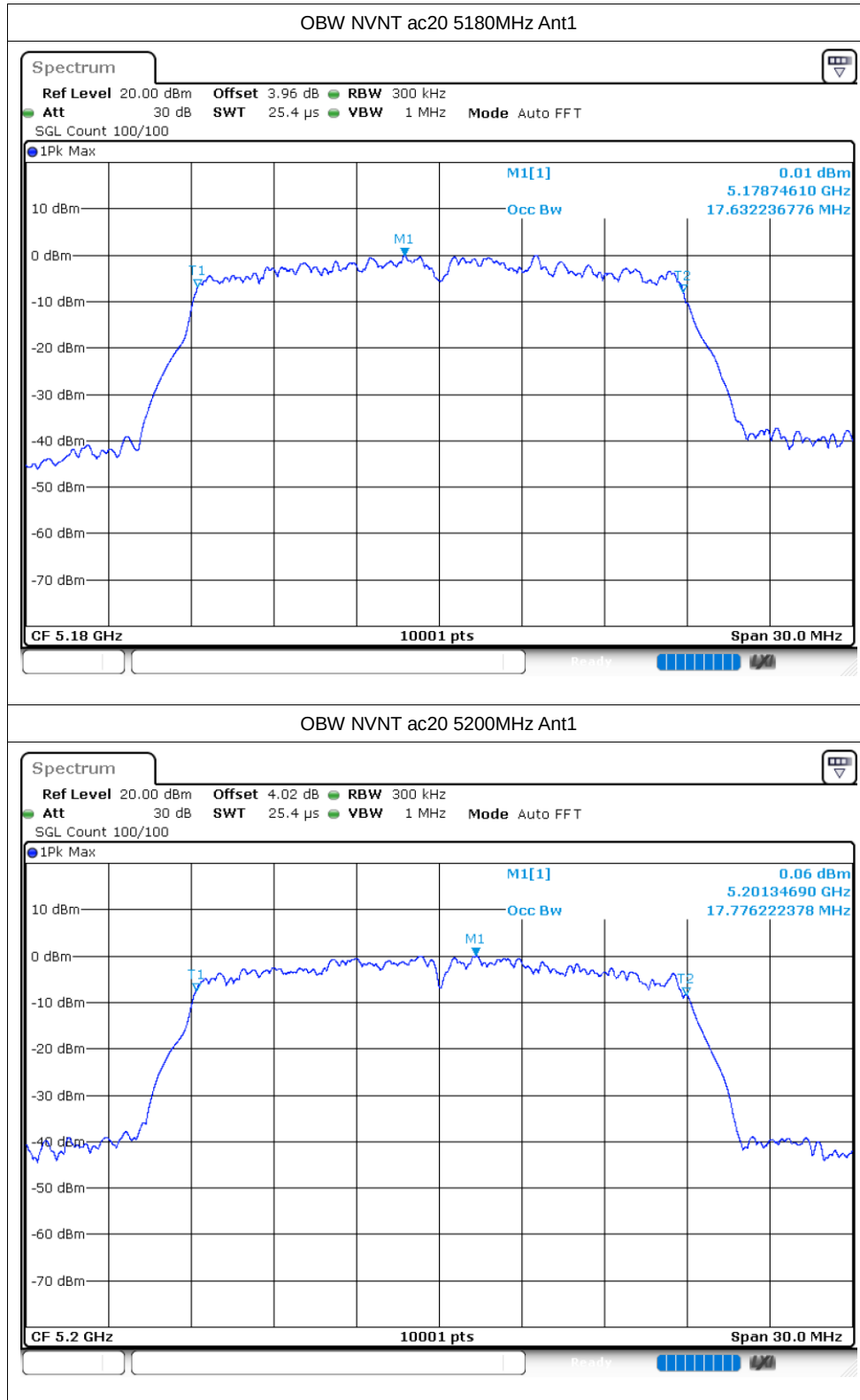
OBW NVNT a 5200MHz Ant1

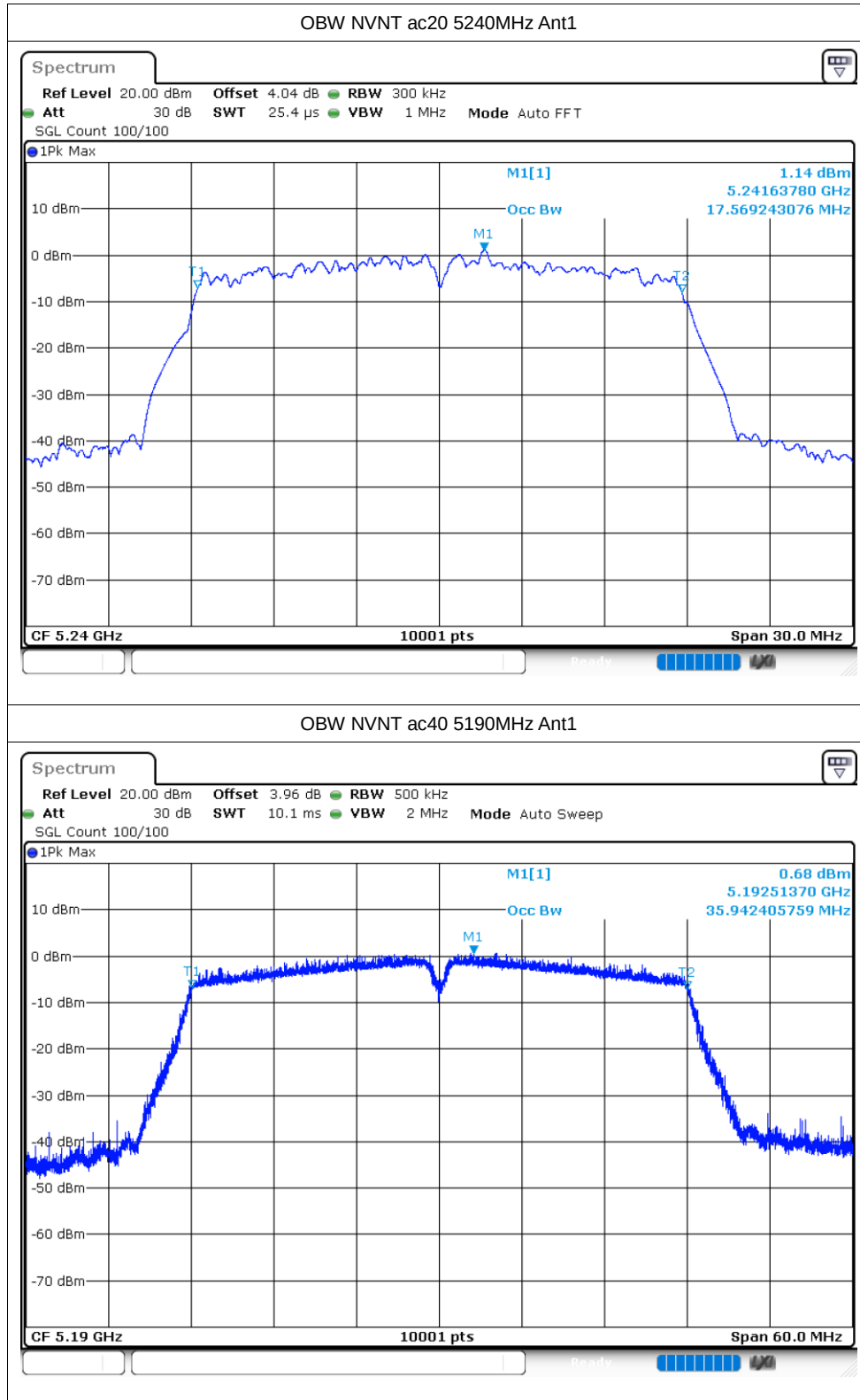


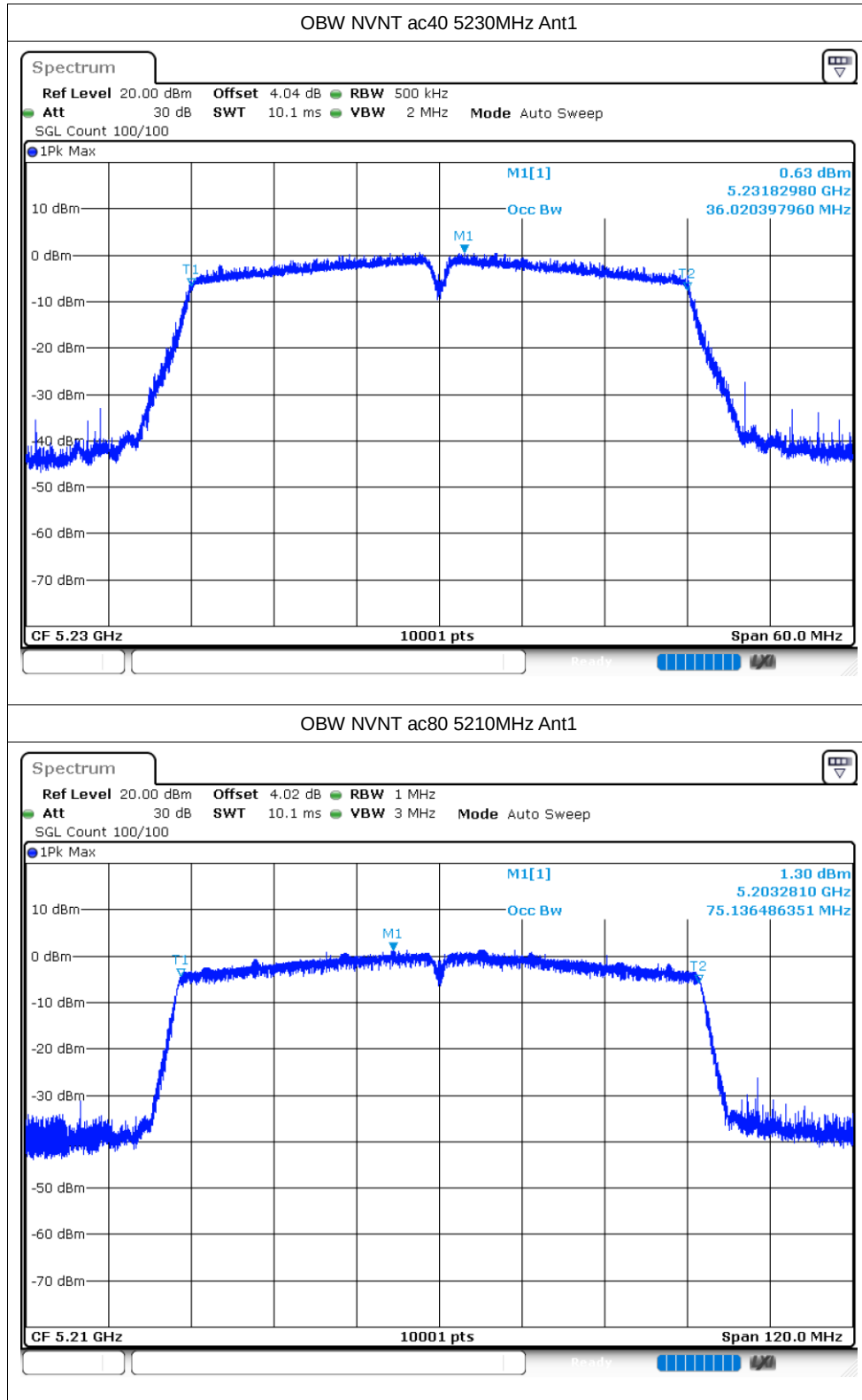










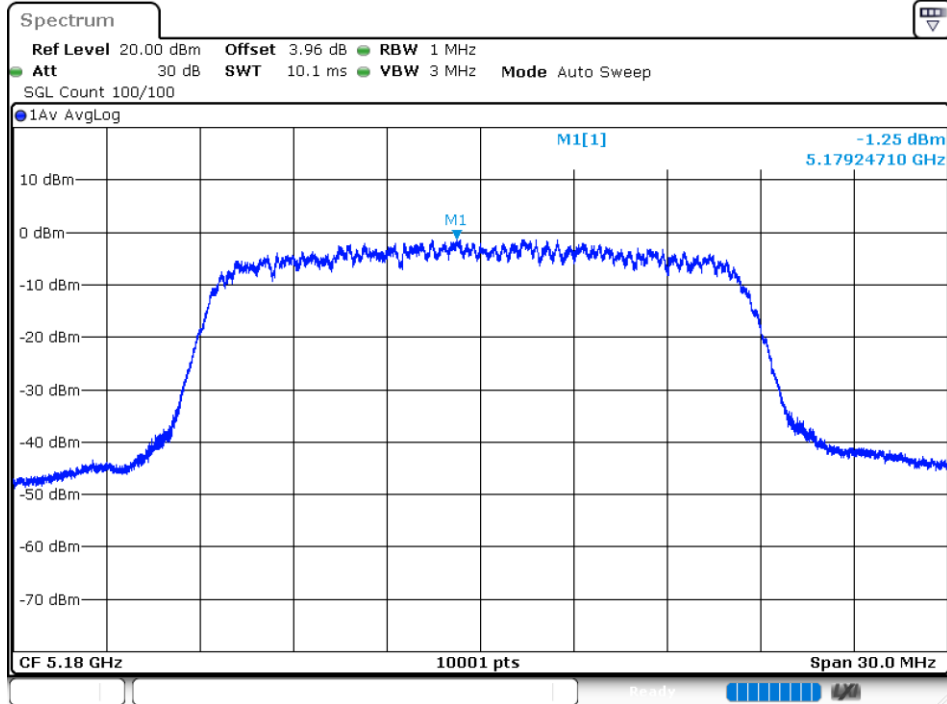


Maximum Power Spectral Density Level

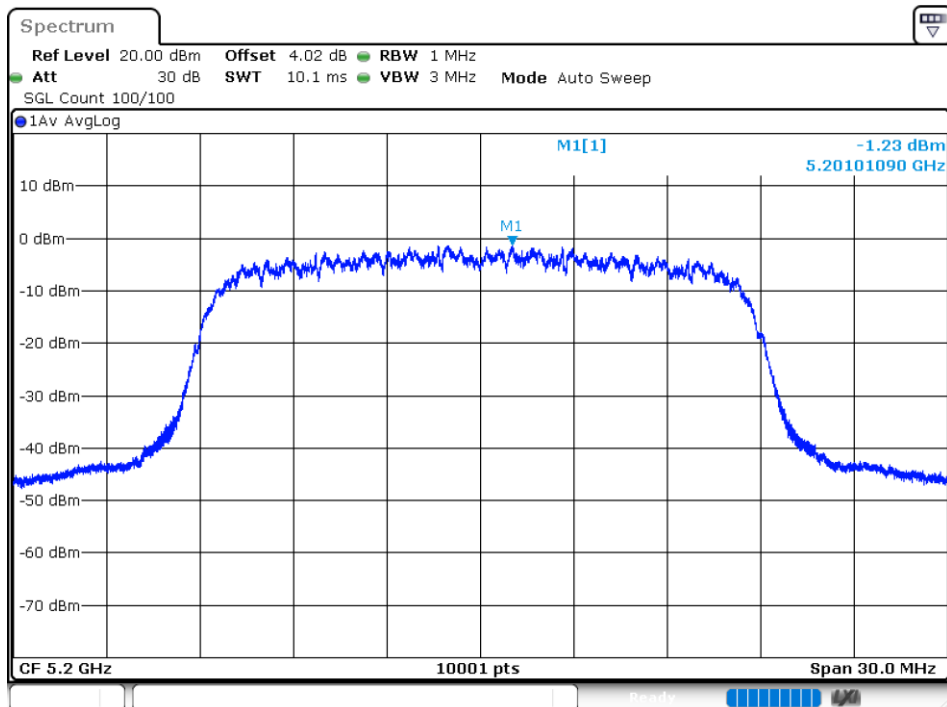
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-1.25	0.11	-1.14	11	Pass
NVNT	a	5200	Ant1	-1.23	0.11	-1.12	11	Pass
NVNT	a	5240	Ant1	-1.16	0.1	-1.06	11	Pass
NVNT	n20	5180	Ant1	-2.38	0.11	-2.27	11	Pass
NVNT	n20	5200	Ant1	-2.37	0.11	-2.26	11	Pass
NVNT	n20	5240	Ant1	-2.48	0.11	-2.37	11	Pass
NVNT	n40	5190	Ant1	-5.81	0.22	-5.59	11	Pass
NVNT	n40	5230	Ant1	-5.9	0.22	-5.68	11	Pass
NVNT	ac20	5180	Ant1	-2.78	0.11	-2.67	11	Pass
NVNT	ac20	5200	Ant1	-2.54	0.11	-2.43	11	Pass
NVNT	ac20	5240	Ant1	-2.54	0.11	-2.43	11	Pass
NVNT	ac40	5190	Ant1	-6.37	0.22	-6.15	11	Pass
NVNT	ac40	5230	Ant1	-6.75	0.22	-6.53	11	Pass
NVNT	ac80	5210	Ant1	-11.18	0.43	-10.75	11	Pass

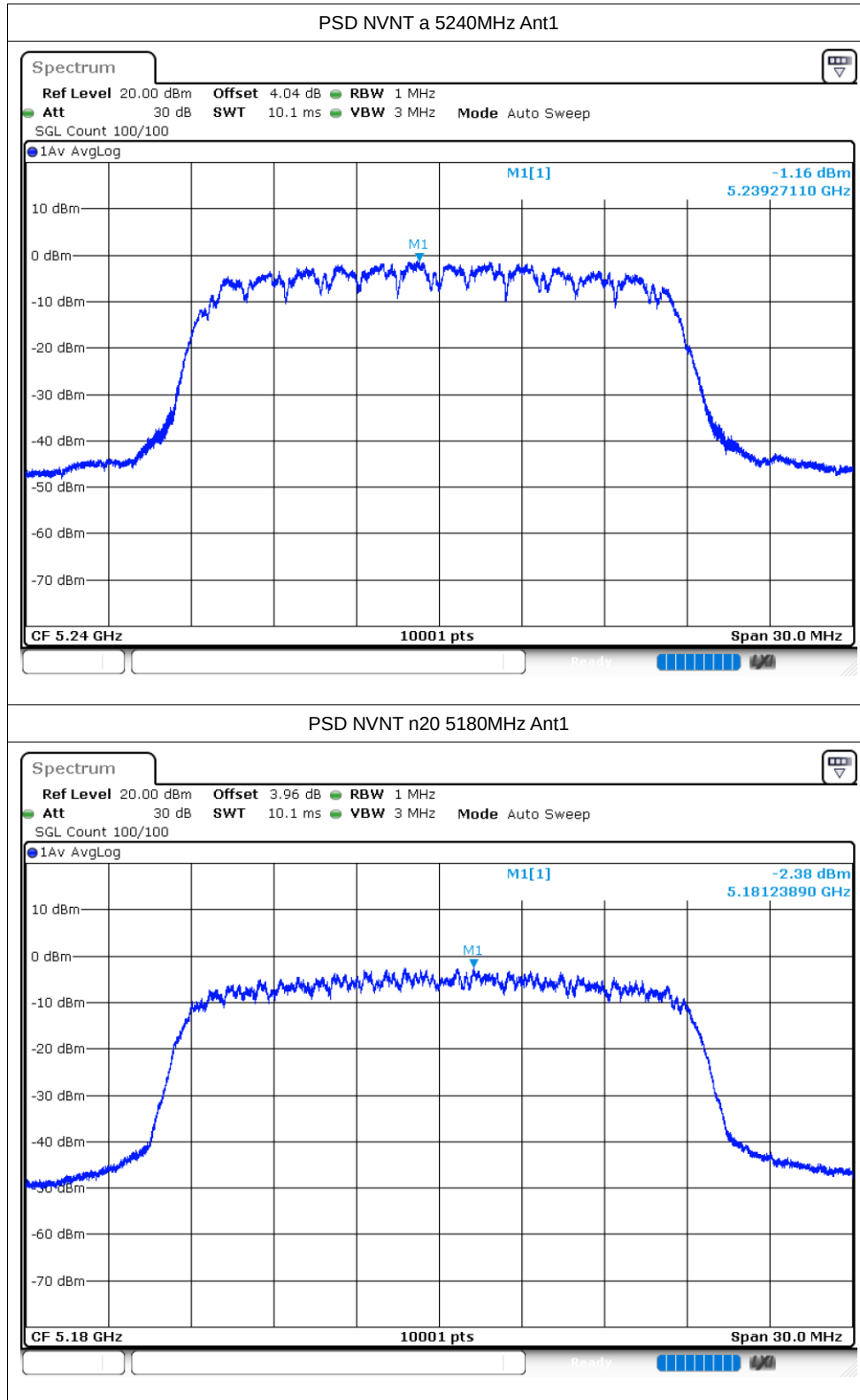
Test Graphs

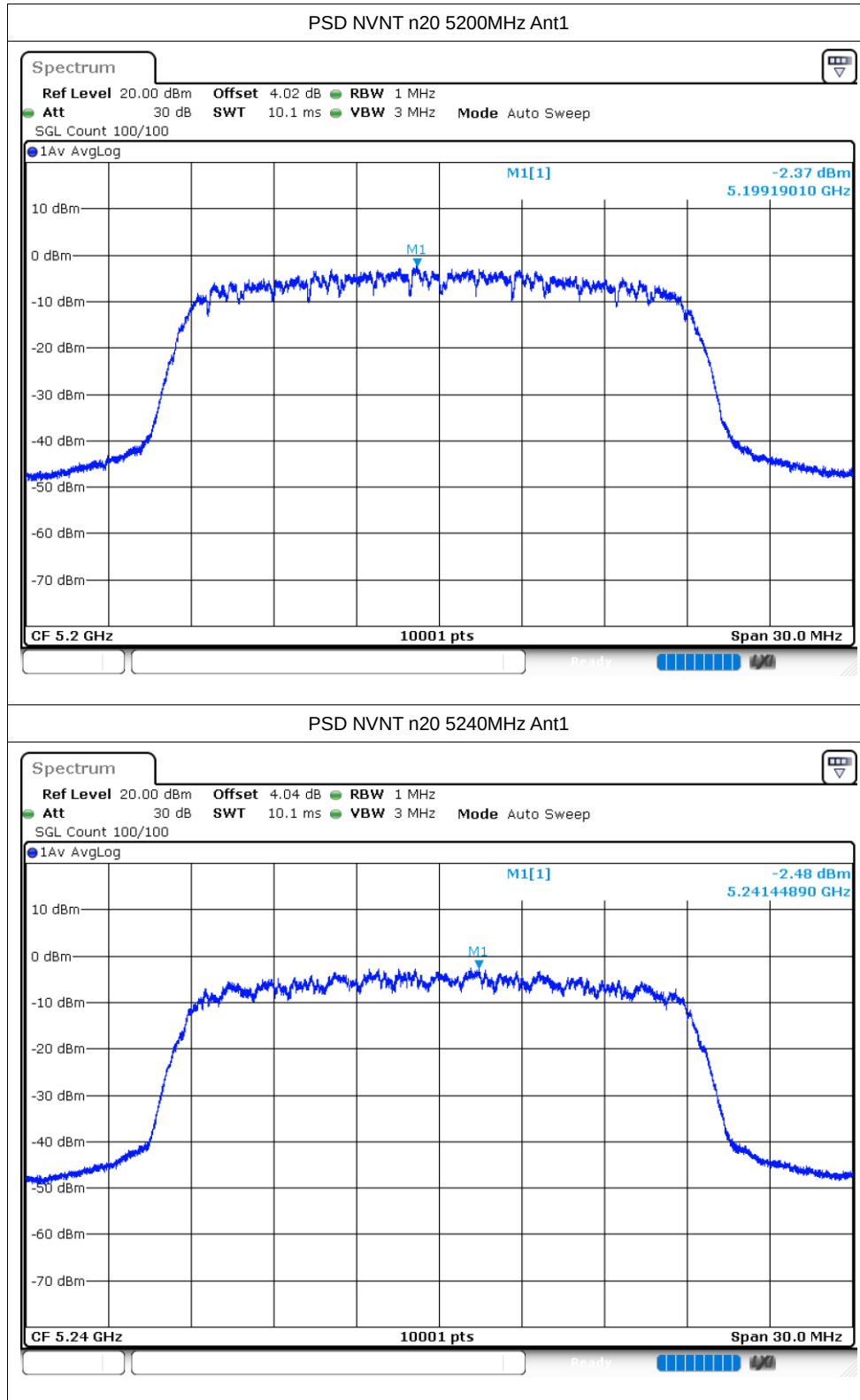
PSD NVNT a 5180MHz Ant1

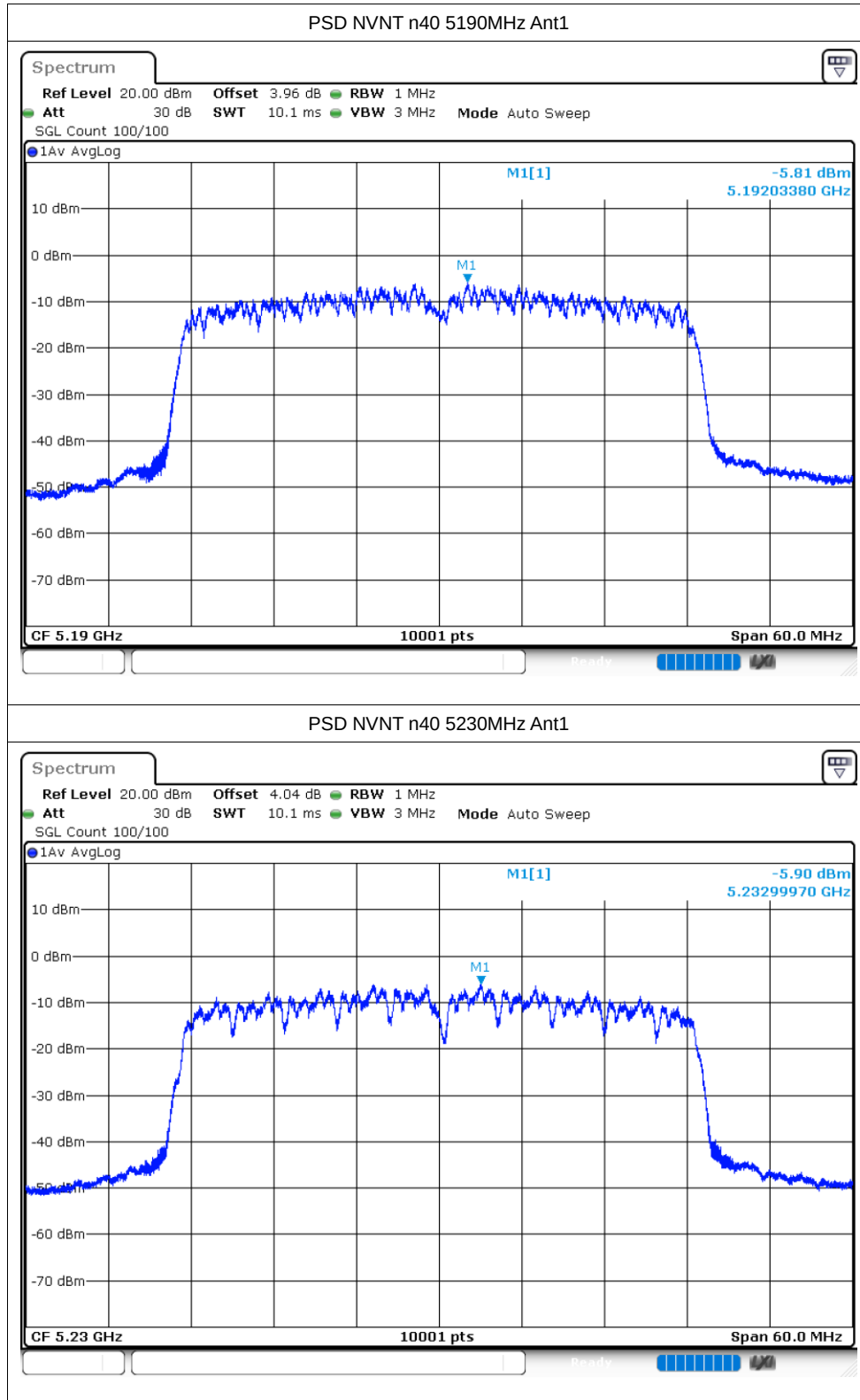


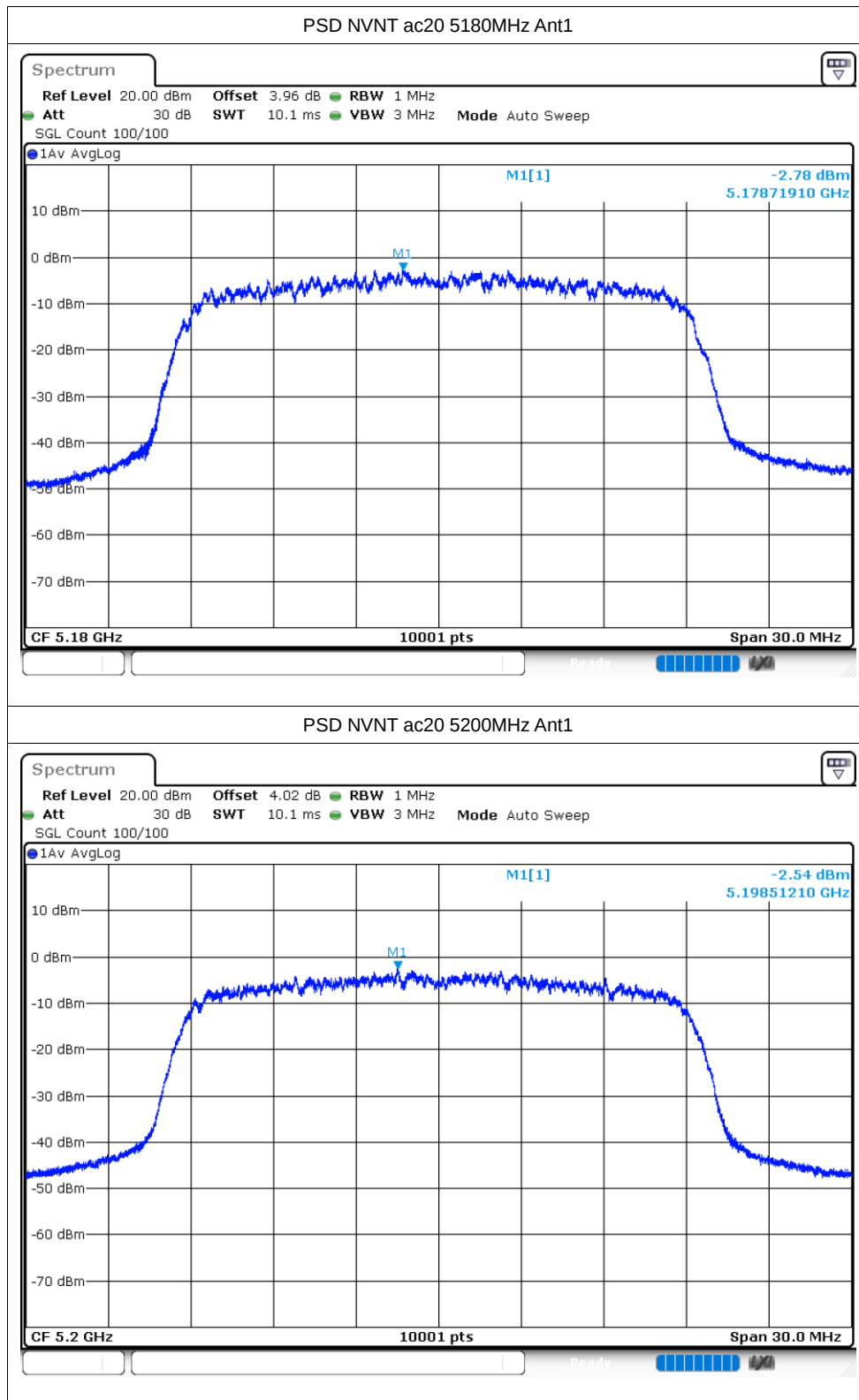
PSD NVNT a 5200MHz Ant1

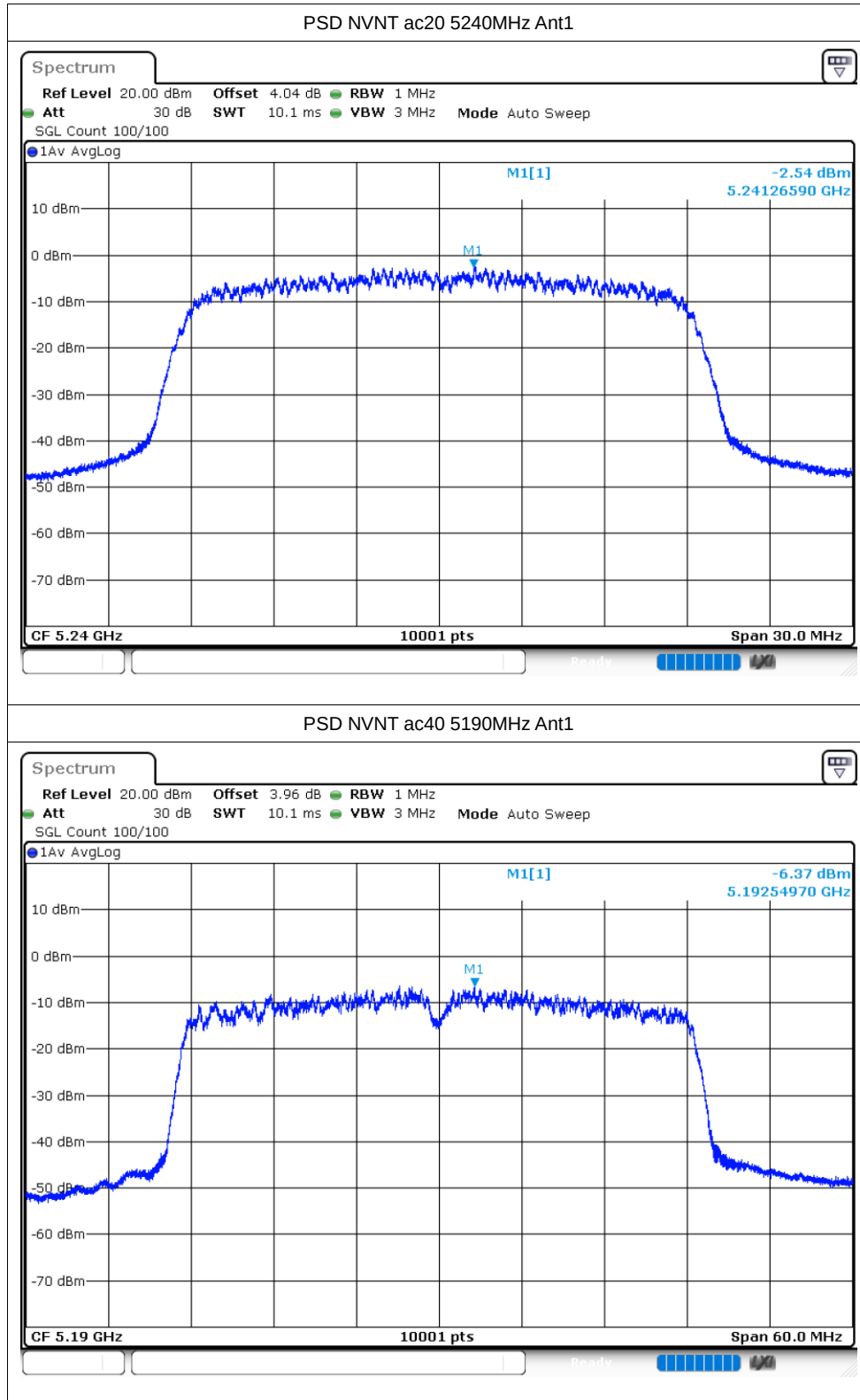


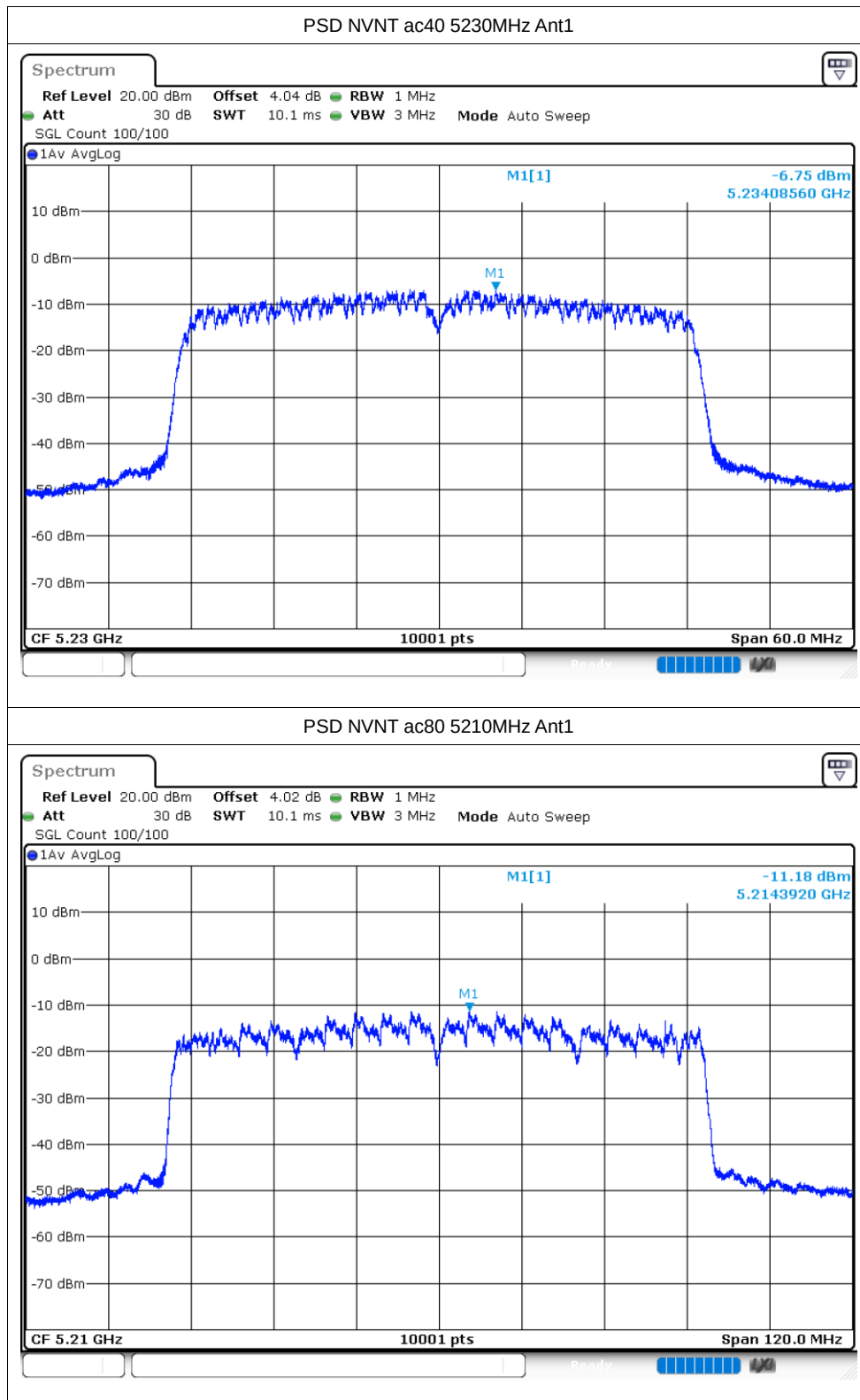












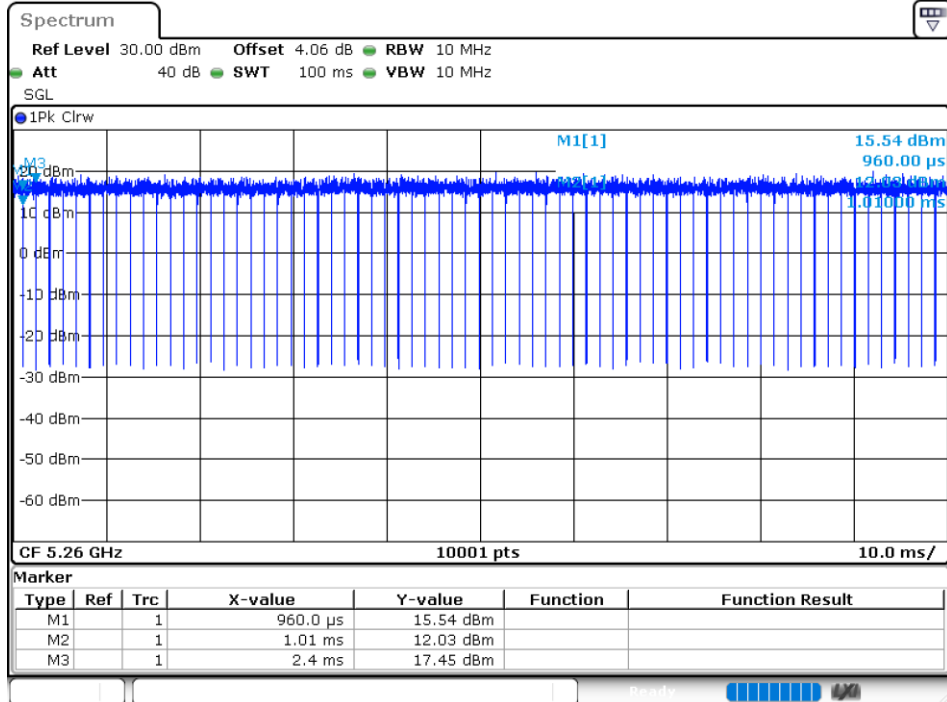
5.3G WIFI

Duty Cycle

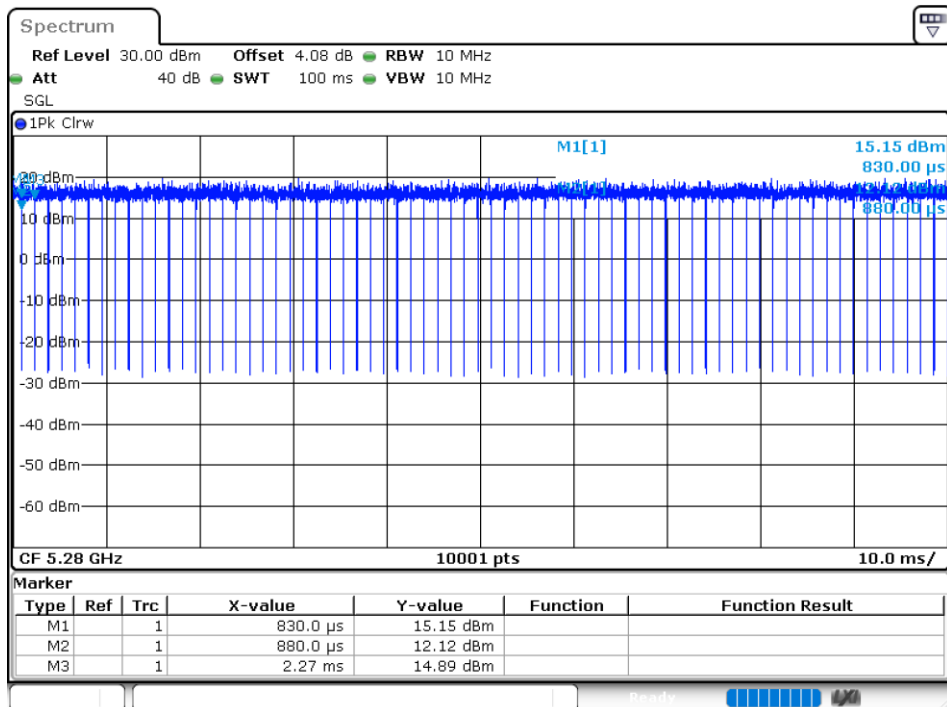
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.59	0.11	0.72
NVNT	a	5280	Ant1	97.59	0.11	0.72
NVNT	a	5320	Ant1	97.59	0.11	0.72
NVNT	n20	5260	Ant1	97.44	0.11	0.77
NVNT	n20	5280	Ant1	97.41	0.11	0.77
NVNT	n20	5320	Ant1	97.44	0.11	0.77
NVNT	n40	5270	Ant1	95.04	0.22	1.54
NVNT	n40	5310	Ant1	95.05	0.22	1.54
NVNT	ac20	5260	Ant1	97.43	0.11	0.76
NVNT	ac20	5280	Ant1	97.43	0.11	0.76
NVNT	ac20	5320	Ant1	97.44	0.11	0.76
NVNT	ac40	5270	Ant1	95.11	0.22	1.54
NVNT	ac40	5310	Ant1	95.08	0.22	1.54
NVNT	ac80	5290	Ant1	90.61	0.43	3.03

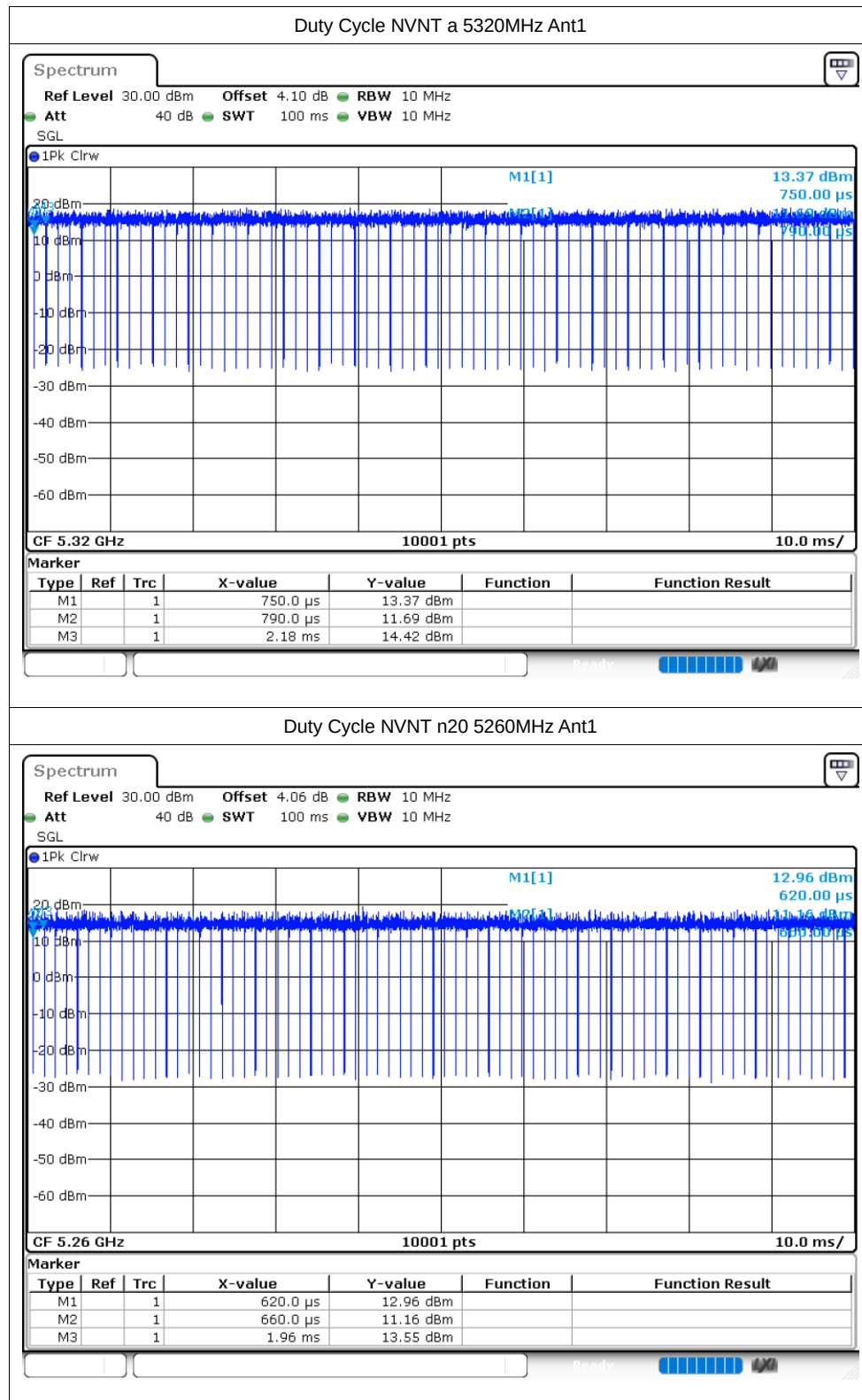
Test Graphs

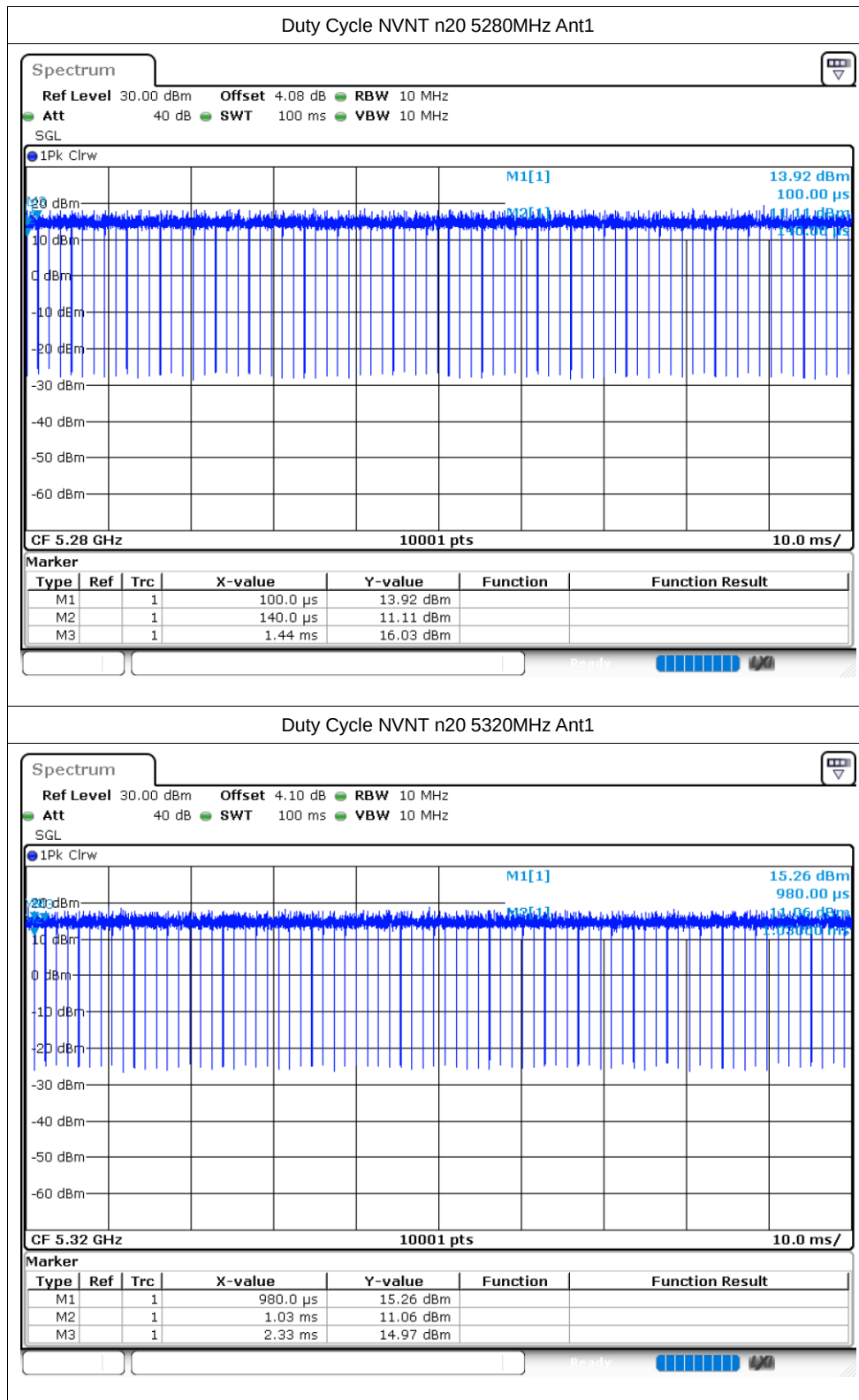
Duty Cycle NVNT a 5260MHz Ant1



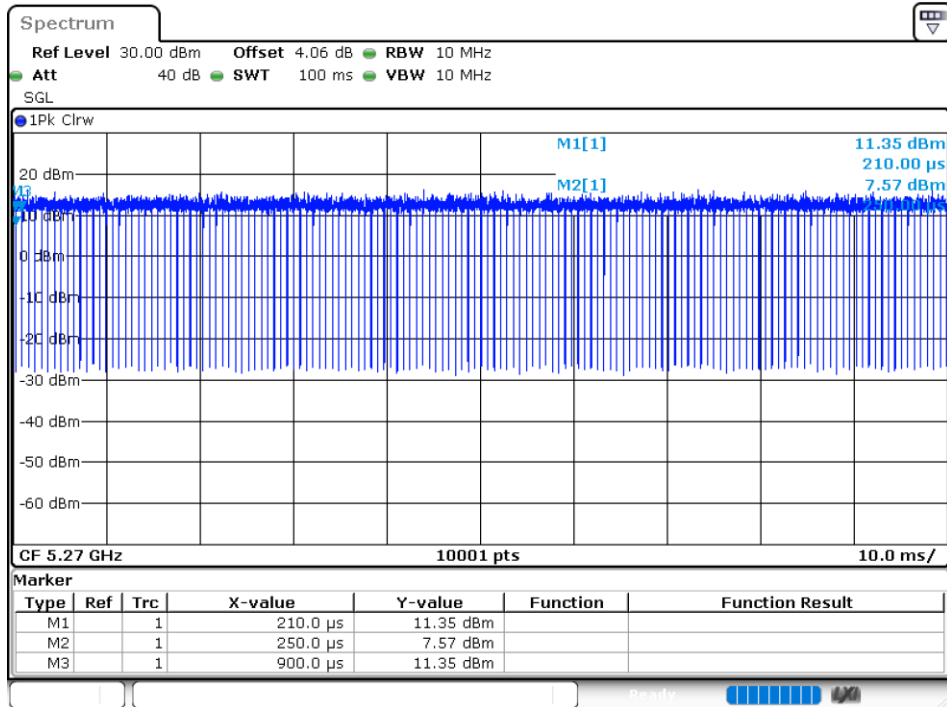
Duty Cycle NVNT a 5280MHz Ant1



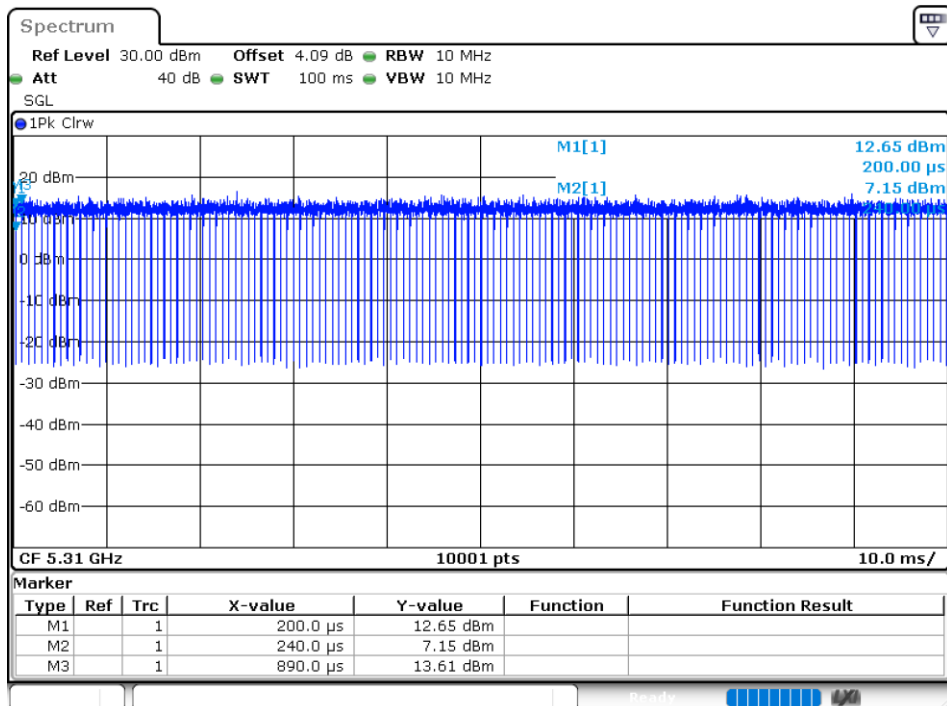


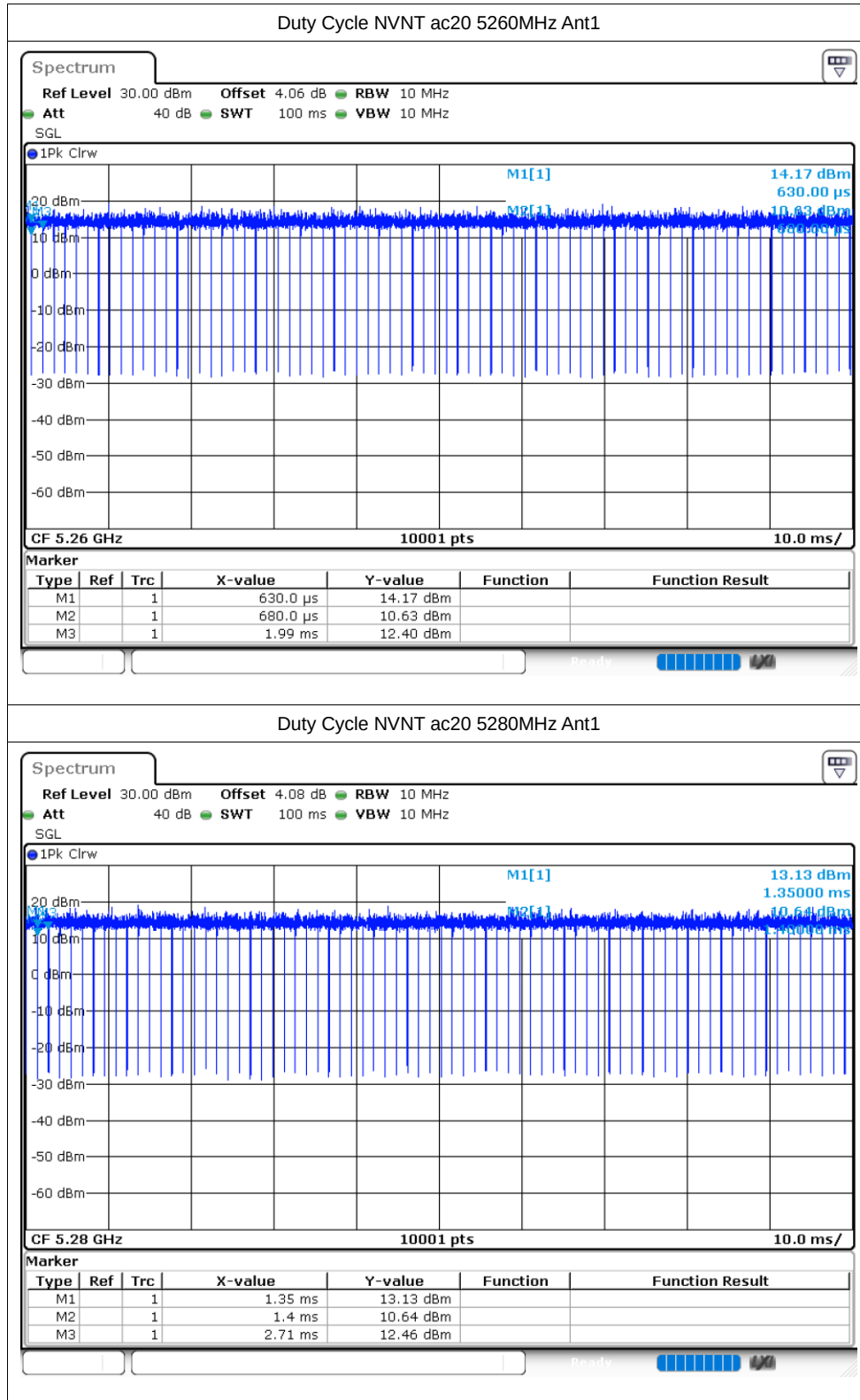


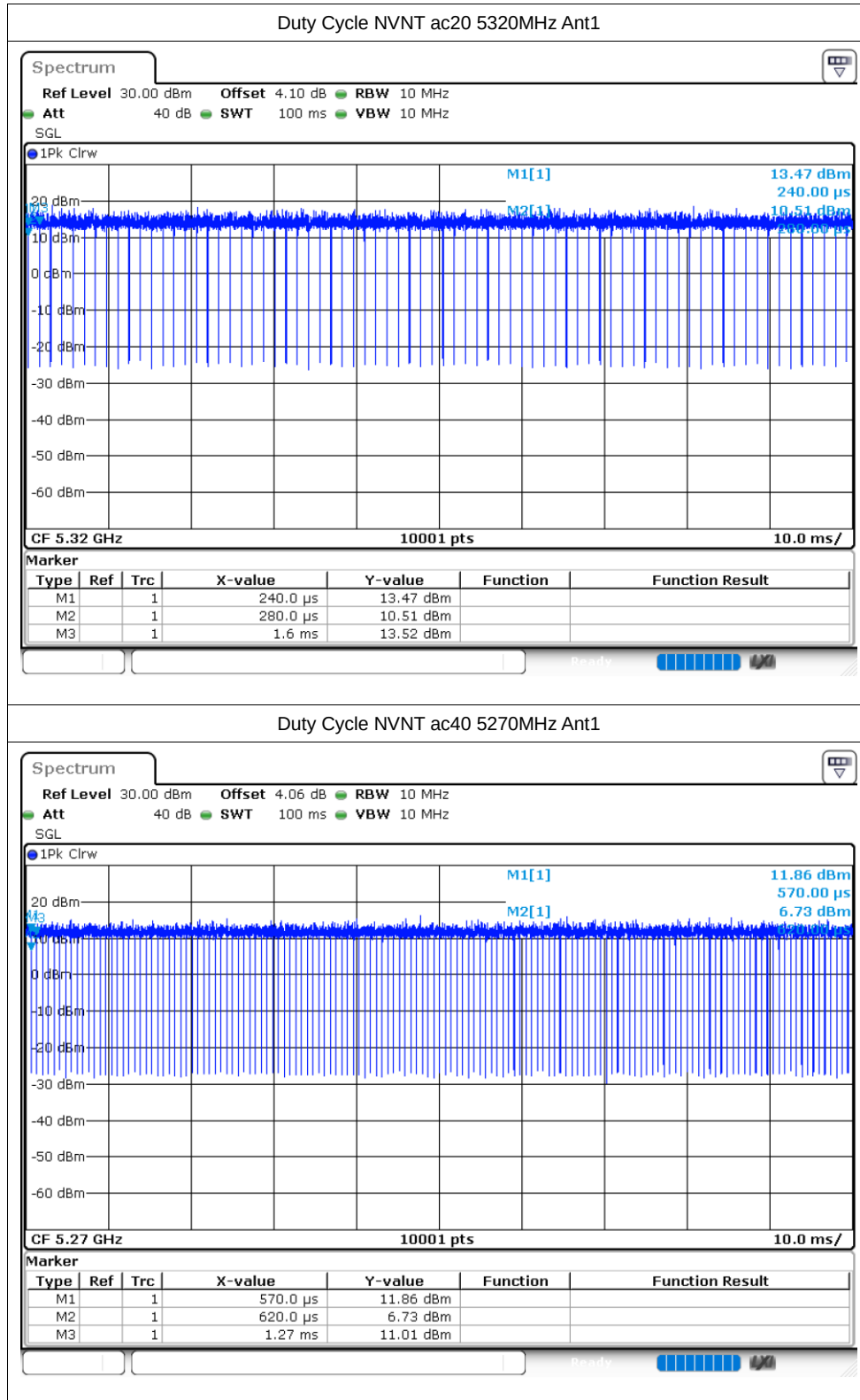
Duty Cycle NVNT n40 5270MHz Ant1

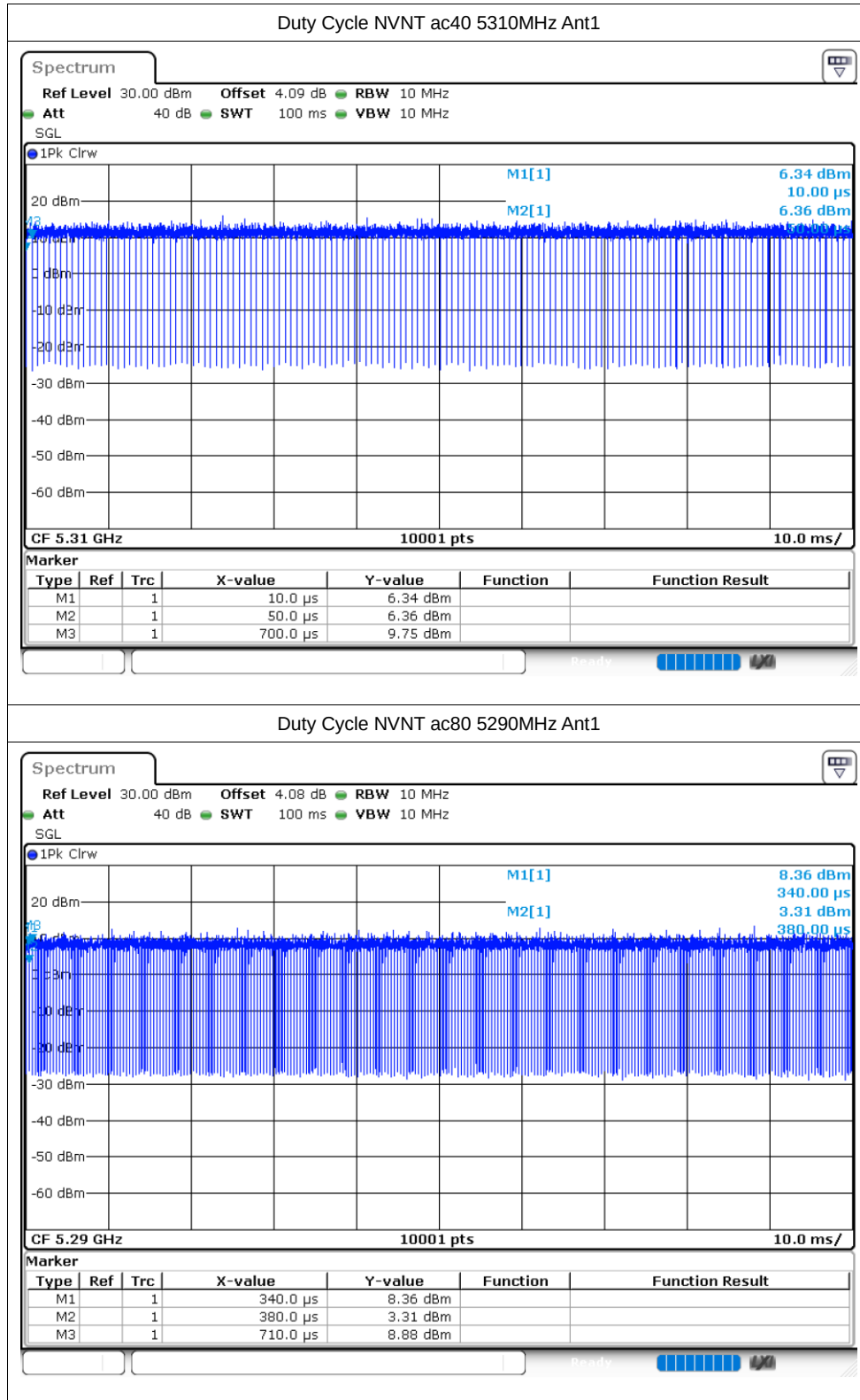


Duty Cycle NVNT n40 5310MHz Ant1









Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	11.42	23.91	Pass
NVNT	a	5280	Ant1	11.36	23.98	Pass
NVNT	a	5320	Ant1	11.47	23.97	Pass
NVNT	n20	5260	Ant1	10.38	24	Pass
NVNT	n20	5280	Ant1	10.41	24	Pass
NVNT	n20	5320	Ant1	10.44	24	Pass
NVNT	n40	5270	Ant1	10.27	24	Pass
NVNT	n40	5310	Ant1	10.34	24	Pass
NVNT	ac20	5260	Ant1	9.9	24	Pass
NVNT	ac20	5280	Ant1	9.95	24	Pass
NVNT	ac20	5320	Ant1	9.86	24	Pass
NVNT	ac40	5270	Ant1	9.34	24	Pass
NVNT	ac40	5310	Ant1	9.53	24	Pass
NVNT	ac80	5290	Ant1	9.57	24	Pass

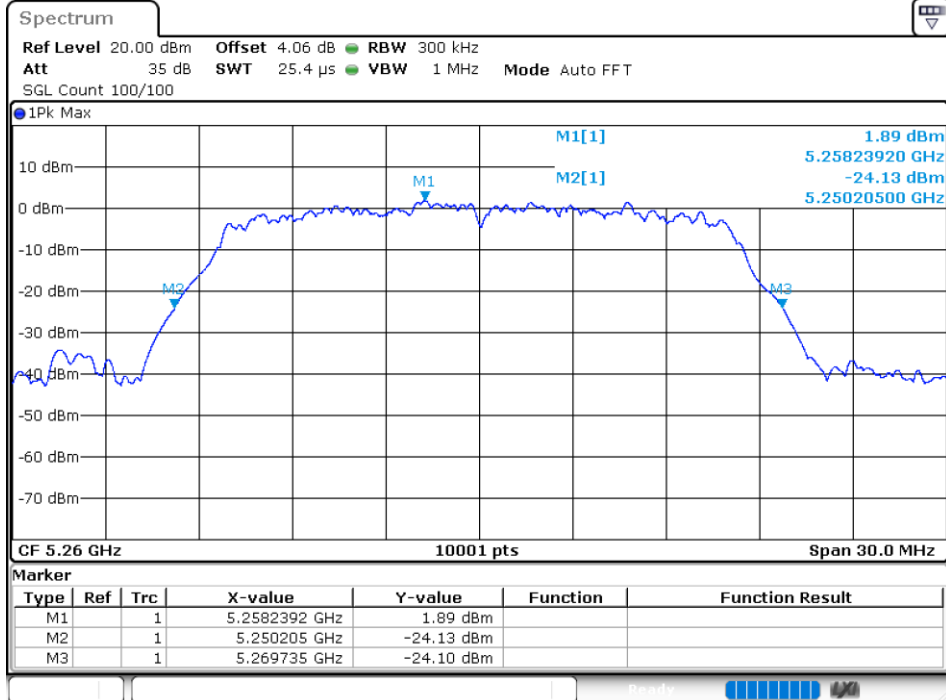
Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

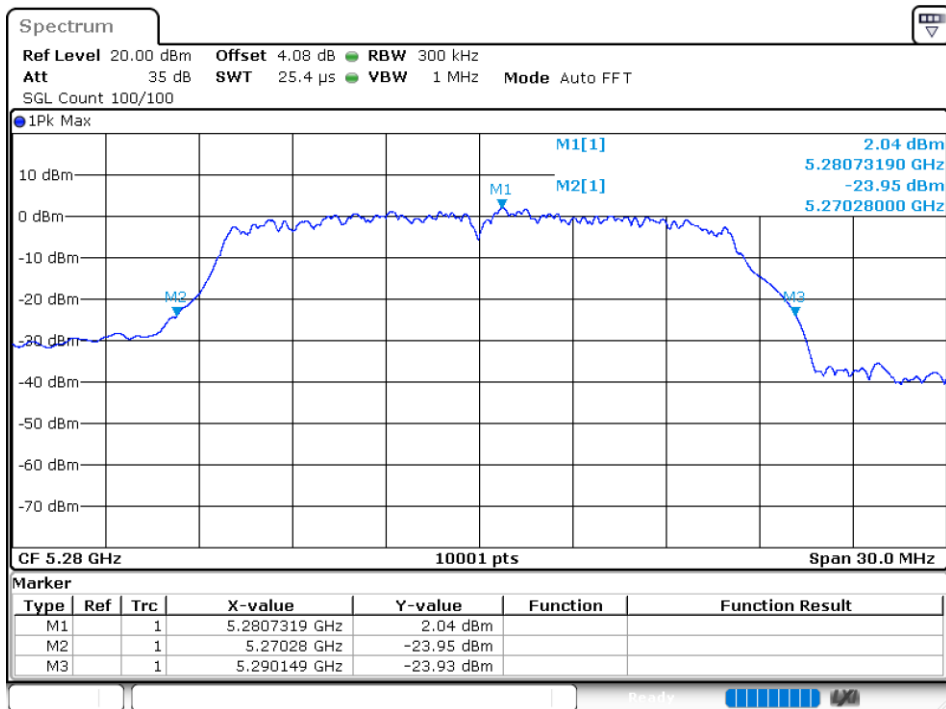
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5260	Ant1	19.53
NVNT	a	5280	Ant1	19.869
NVNT	a	5320	Ant1	19.83
NVNT	n20	5260	Ant1	19.956
NVNT	n20	5280	Ant1	19.938
NVNT	n20	5320	Ant1	20.319
NVNT	n40	5270	Ant1	40.644
NVNT	n40	5310	Ant1	40.746
NVNT	ac20	5260	Ant1	20.226
NVNT	ac20	5280	Ant1	20.229
NVNT	ac20	5320	Ant1	20.58
NVNT	ac40	5270	Ant1	40.866
NVNT	ac40	5310	Ant1	40.746
NVNT	ac80	5290	Ant1	81

Test Graphs

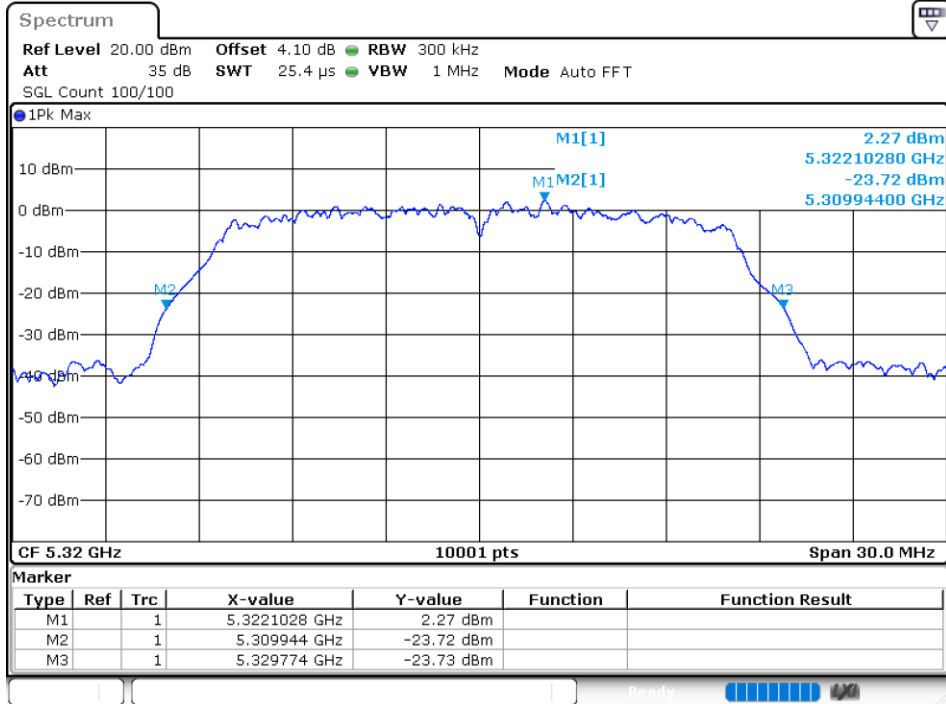
-26dB Bandwidth NVNT a 5260MHz Ant1



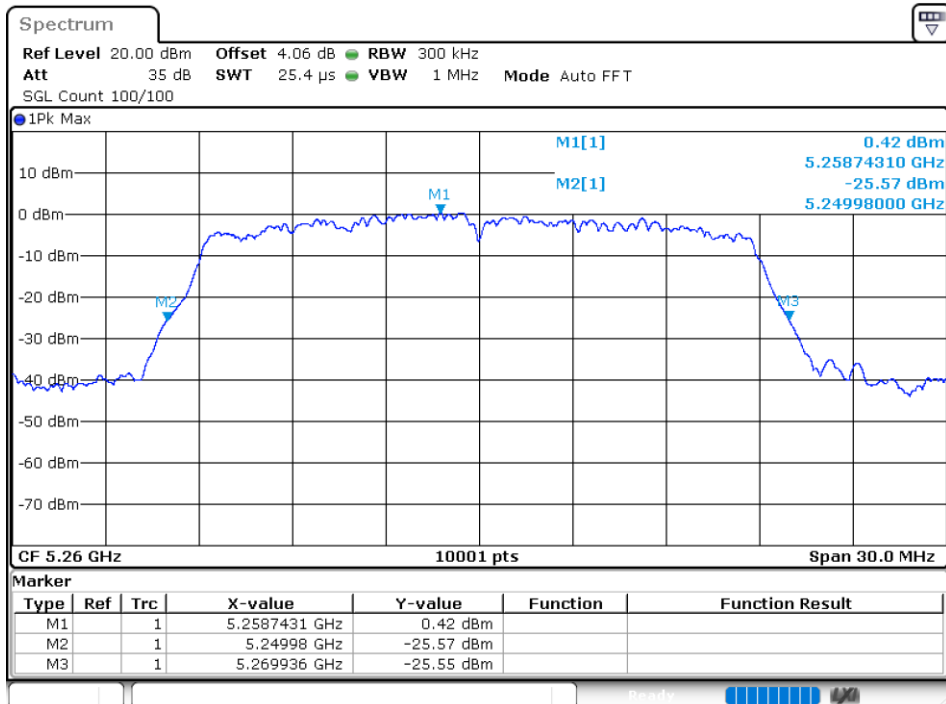
-26dB Bandwidth NVNT a 5280MHz Ant1



-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1

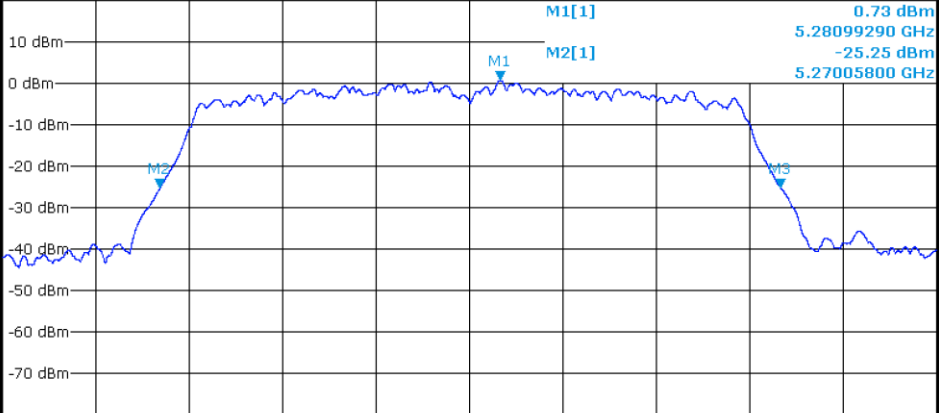


-26dB Bandwidth NVNT n20 5280MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.08 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

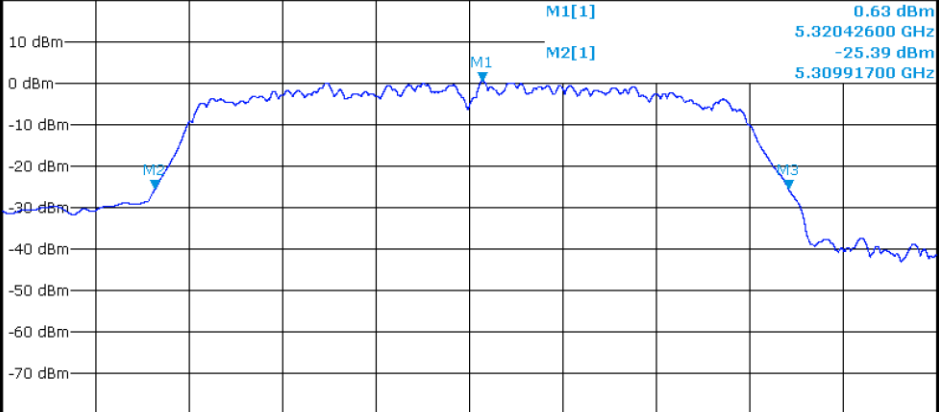
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2809929 GHz	0.73 dBm		
M2		1	5.270058 GHz	-25.25 dBm		
M3		1	5.289996 GHz	-25.27 dBm		

-26dB Bandwidth NVNT n20 5320MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.10 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

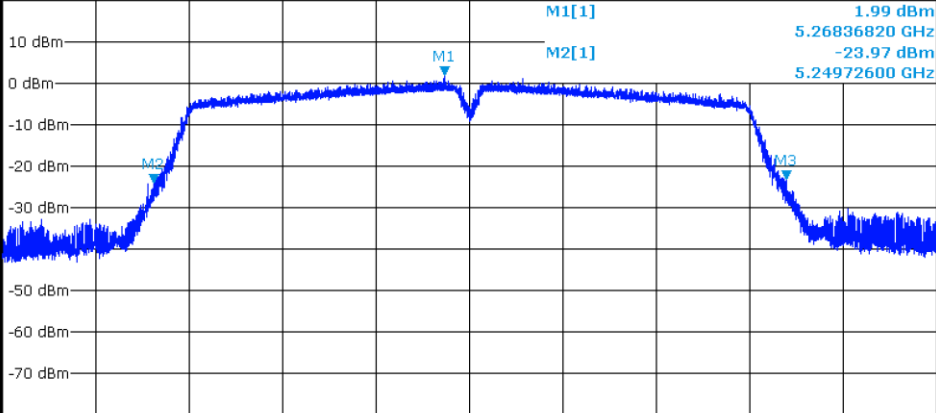
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.320426 GHz	0.63 dBm		
M2		1	5.309917 GHz	-25.39 dBm		
M3		1	5.330236 GHz	-25.36 dBm		

-26dB Bandwidth NVNT n40 5270MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.06 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

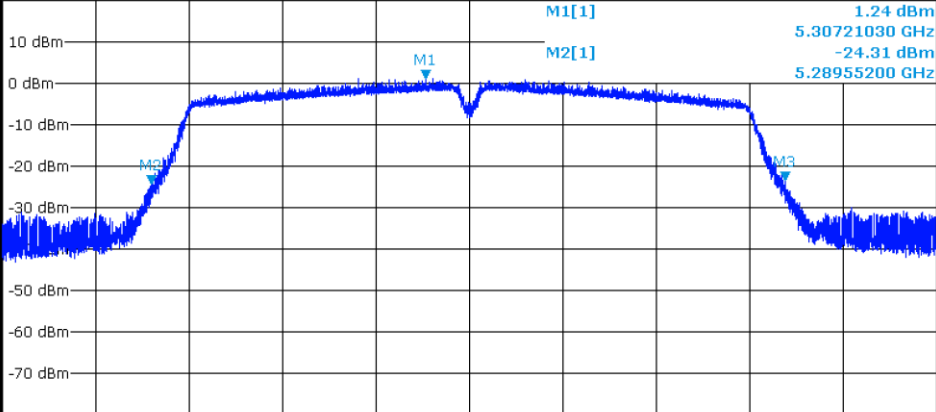
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2683682 GHz	1.99 dBm		
M2		1	5.249726 GHz	-23.97 dBm		
M3		1	5.29037 GHz	-23.19 dBm		

-26dB Bandwidth NVNT n40 5310MHz Ant1

Spectrum

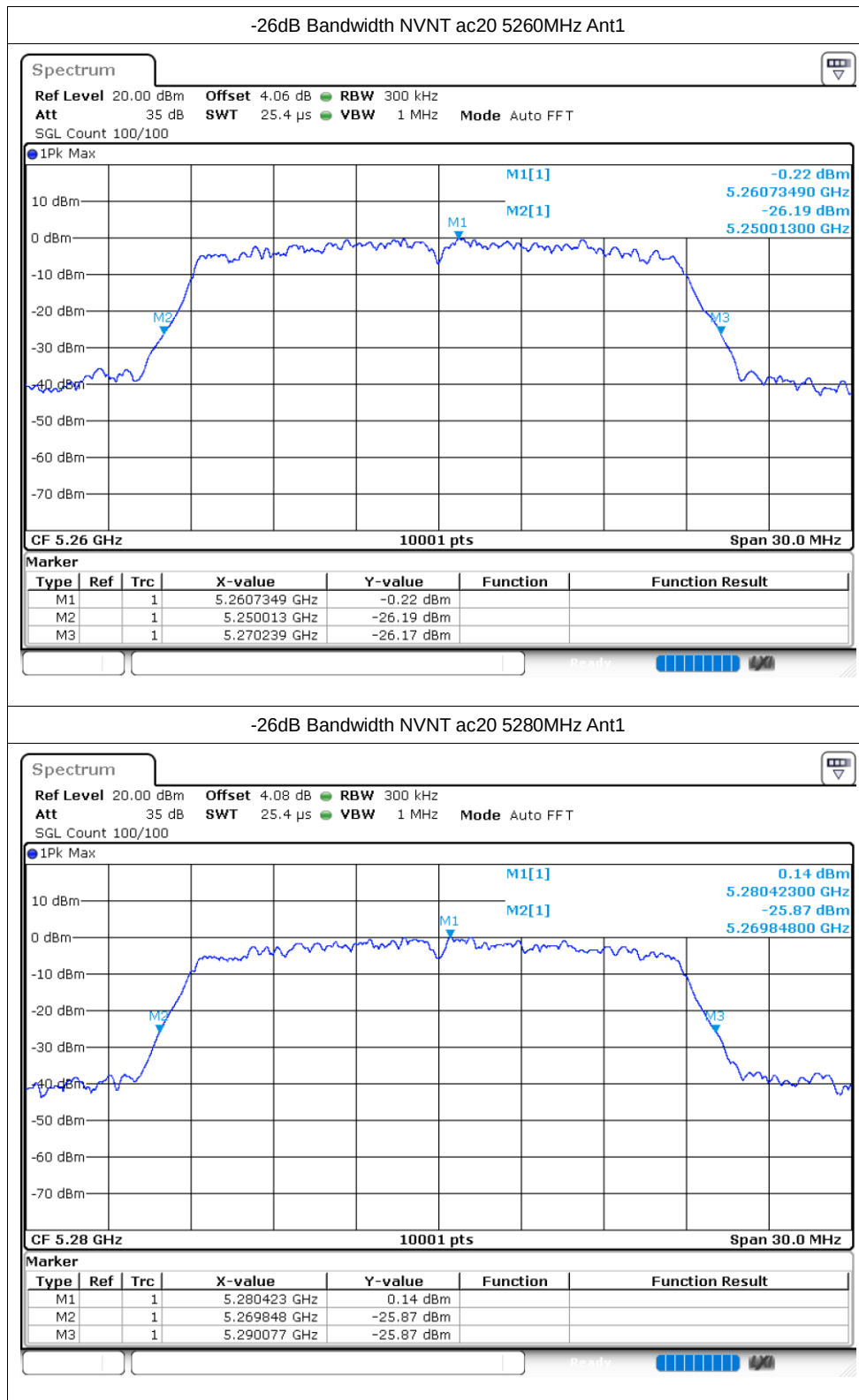
Ref Level 20.00 dBm Offset 4.09 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.3072103 GHz	1.24 dBm		
M2		1	5.289552 GHz	-24.31 dBm		
M3		1	5.330298 GHz	-23.32 dBm		

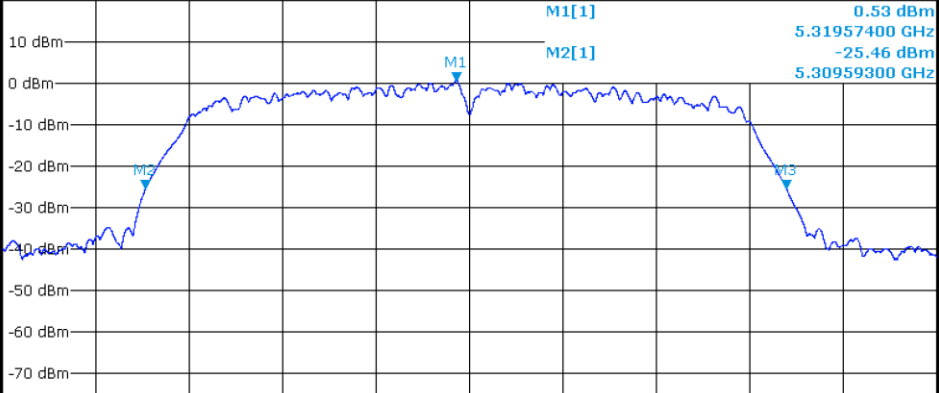


-26dB Bandwidth NVNT ac20 5320MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.10 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 5.32 GHz 10001 pts Span 30.0 MHz

Marker

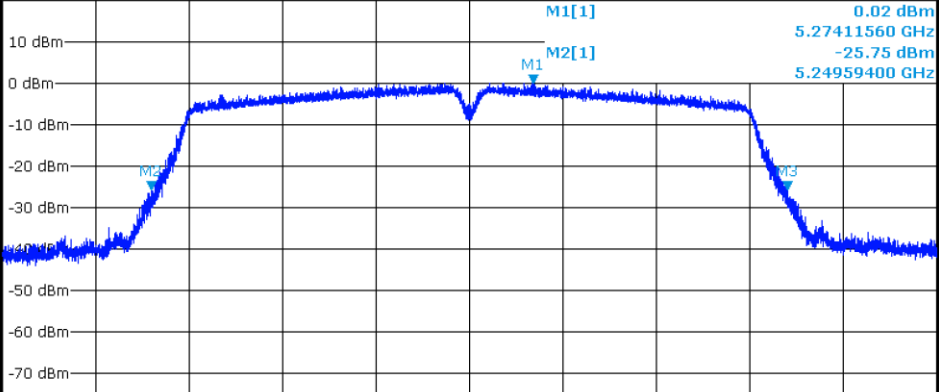
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.319574 GHz	0.53 dBm		
M2	1	1	5.309593 GHz	-25.46 dBm		
M3	1	1	5.330173 GHz	-25.46 dBm		

-26dB Bandwidth NVNT ac40 5270MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.06 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



CF 5.27 GHz 10001 pts Span 60.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.2741156 GHz	0.02 dBm		
M2	1	1	5.249594 GHz	-25.75 dBm		
M3	1	1	5.29046 GHz	-25.78 dBm		

