

5.2G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	90.22	0.45	0.71
NVNT	a	5200	Ant1	90.22	0.45	0.72
NVNT	a	5240	Ant1	90.67	0.43	0.72
NVNT	n20	5180	Ant1	88.74	0.52	0.85
NVNT	n20	5200	Ant1	88.89	0.51	0.85
NVNT	n20	5240	Ant1	88.91	0.51	0.85
NVNT	n40	5190	Ant1	77.85	1.09	1.72
NVNT	n40	5230	Ant1	80.53	0.94	1.69
NVNT	ac20	5180	Ant1	88.93	0.51	0.85
NVNT	ac20	5200	Ant1	89.06	0.5	0.85
NVNT	ac20	5240	Ant1	87.94	0.56	0.84
NVNT	ac40	5190	Ant1	80.54	0.94	1.69
NVNT	ac40	5230	Ant1	80.18	0.96	1.69
NVNT	ac80	5210	Ant1	63.71	1.96	3.7

Test Graphs

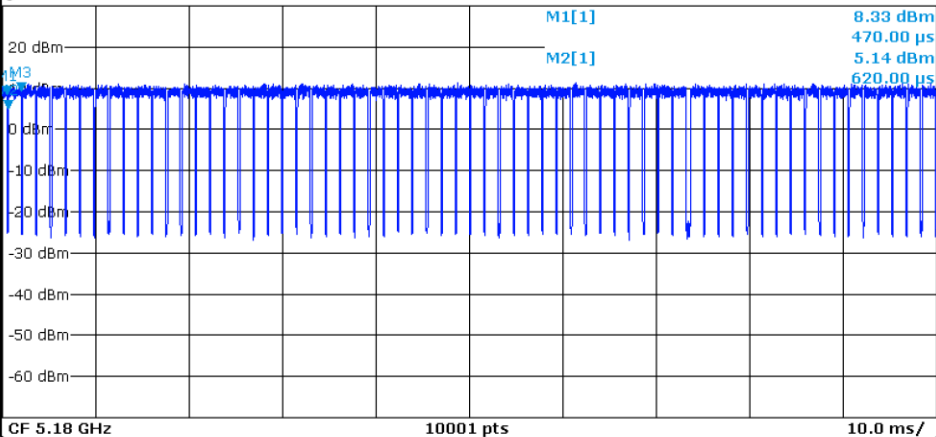
Duty Cycle NVNT a 5180MHz Ant1

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



CF 5.18 GHz

10001 pts

10.0 ms/

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	470.0 μ s	8.33 dBm		
M2	1	1	620.0 μ s	5.14 dBm		
M3	1	1	2.02 ms	9.24 dBm		

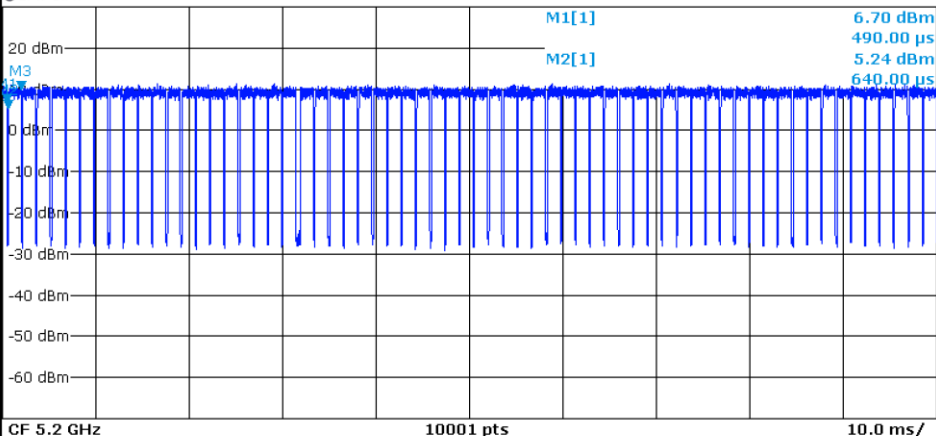
Duty Cycle NVNT a 5200MHz Ant1

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



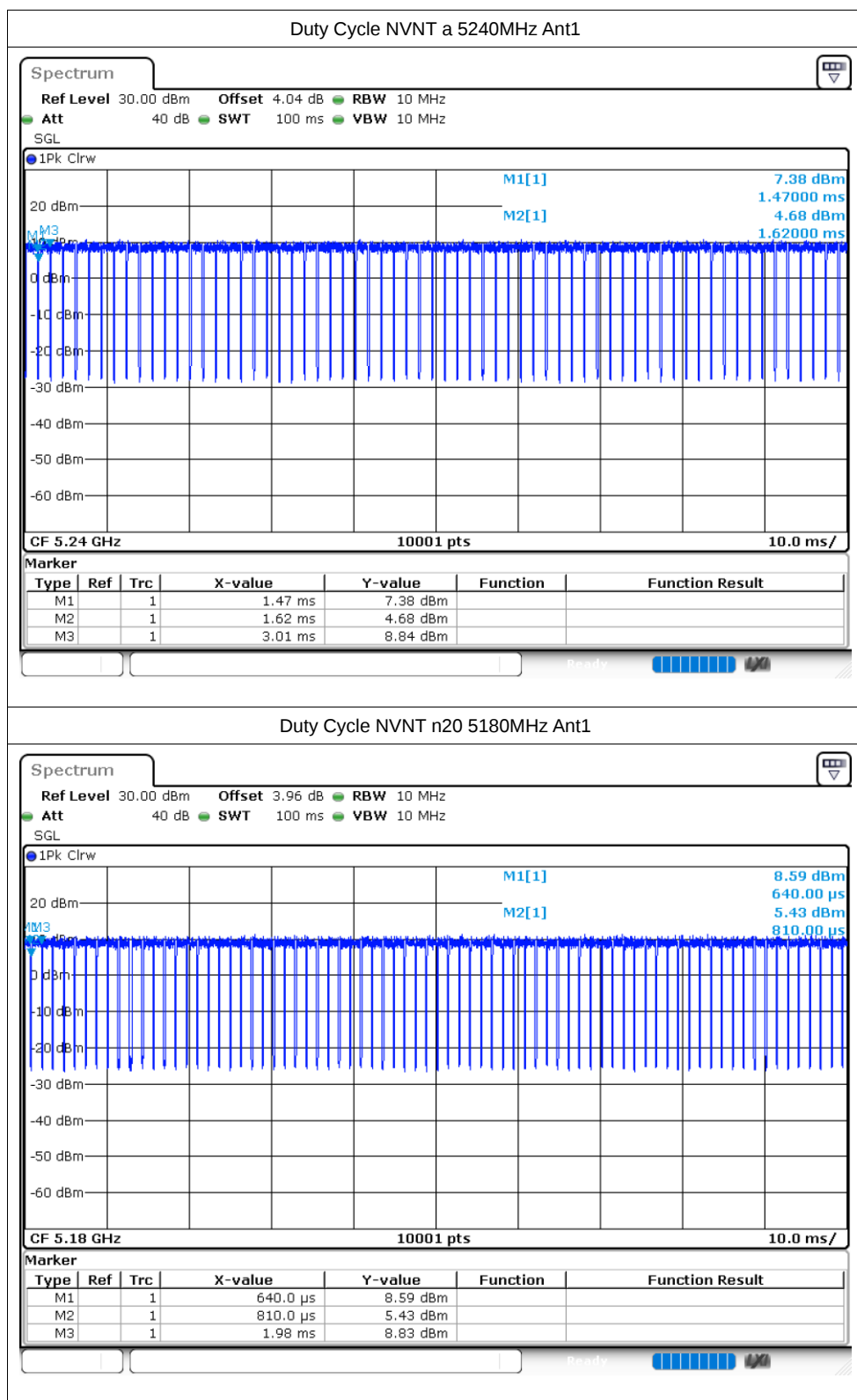
CF 5.2 GHz

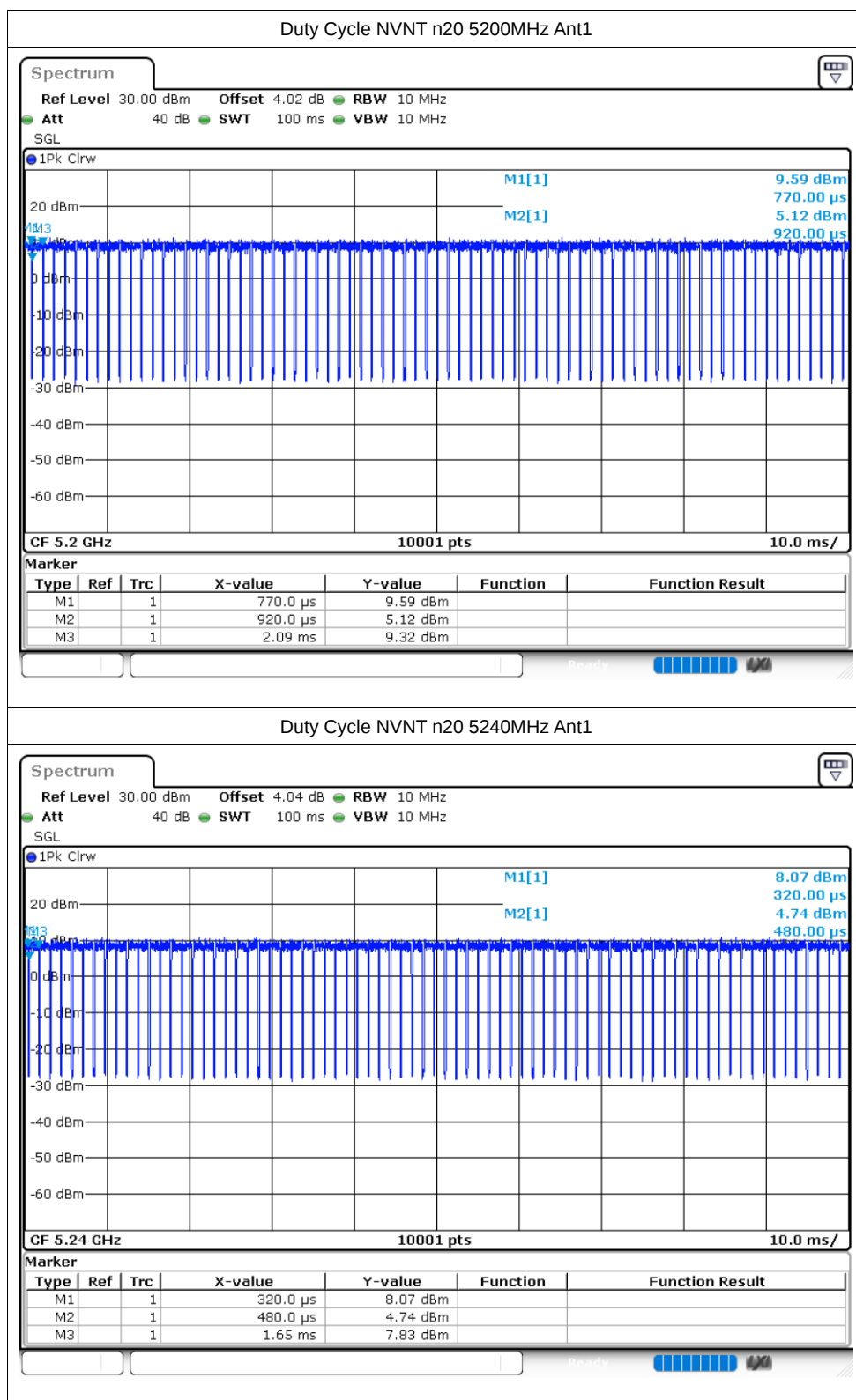
10001 pts

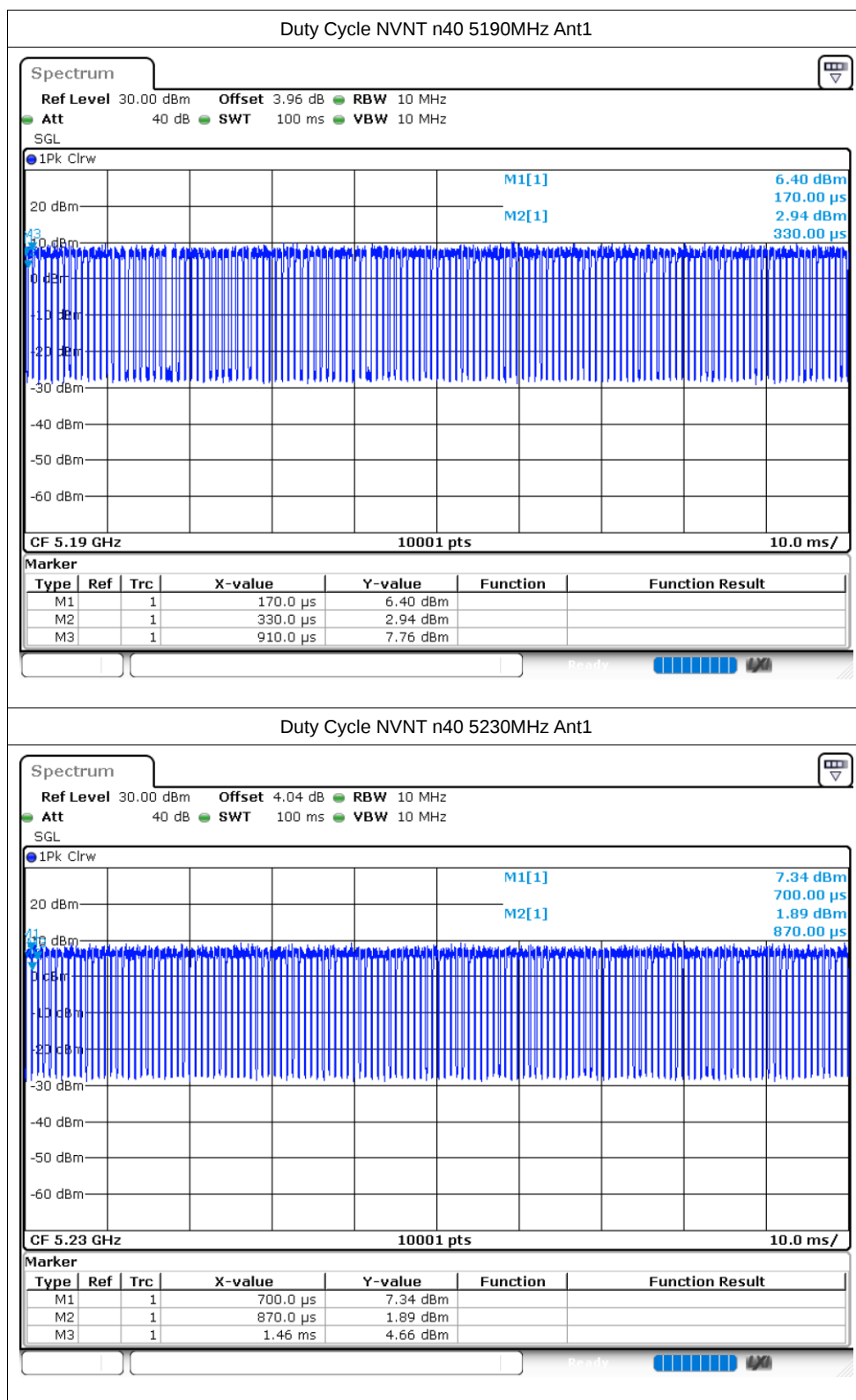
10.0 ms/

Marker

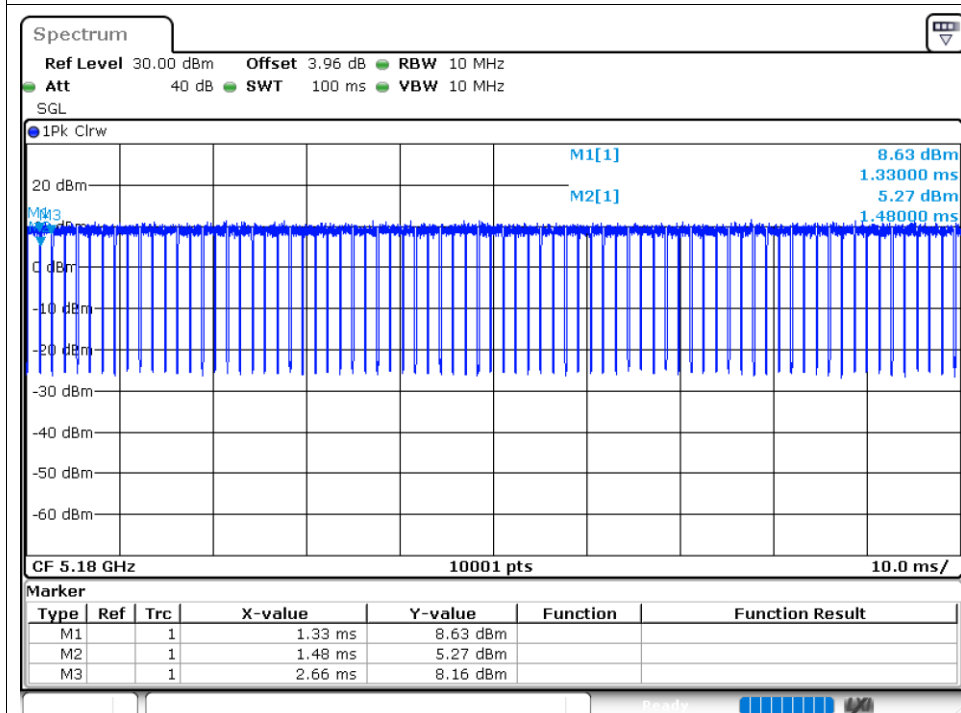
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	490.0 μ s	6.70 dBm		
M2	1	1	640.0 μ s	5.24 dBm		
M3	1	1	2.03 ms	9.81 dBm		



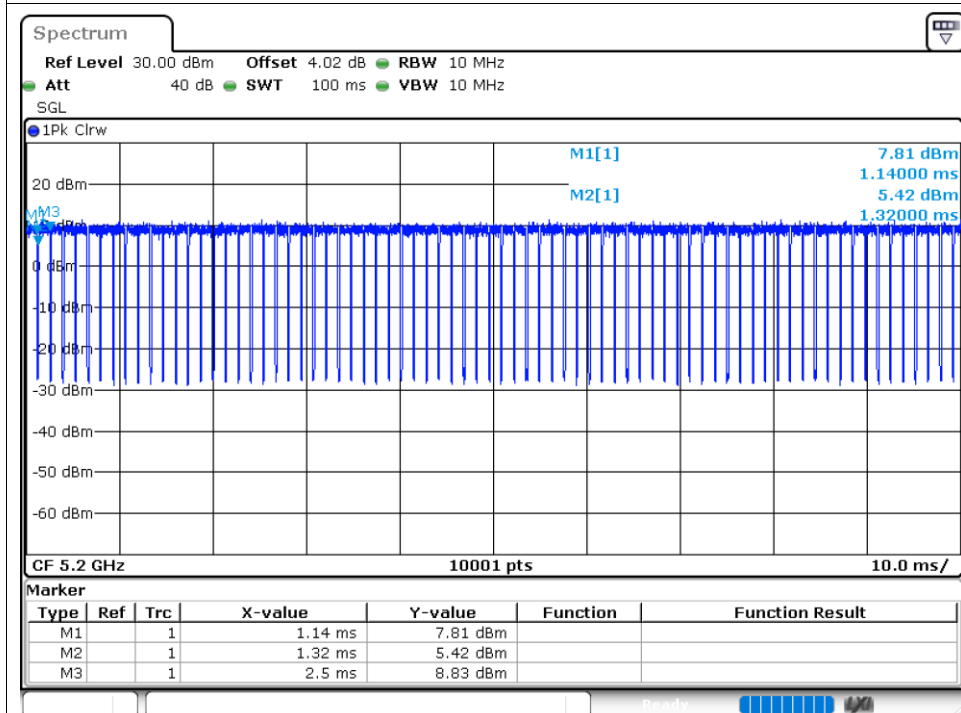


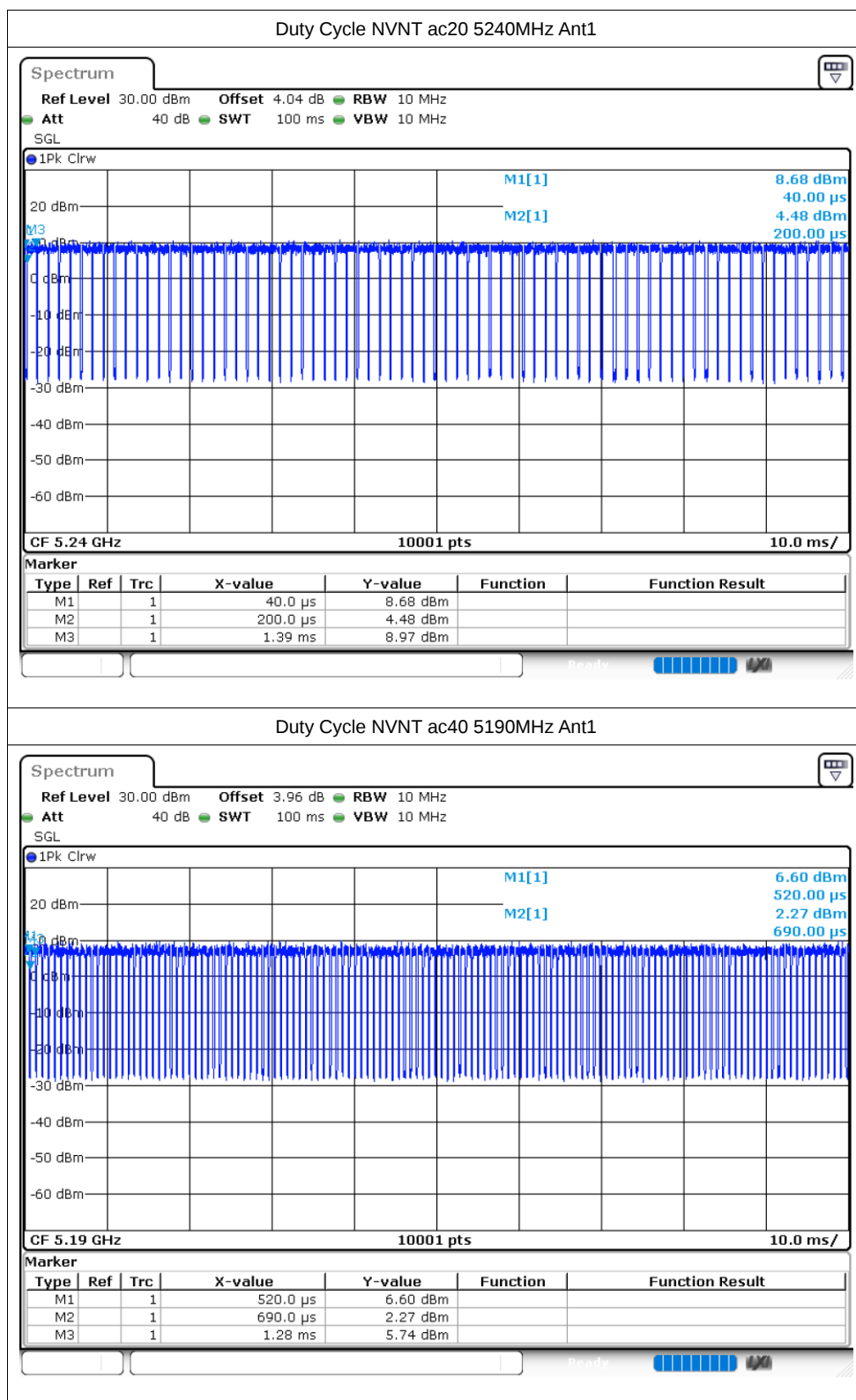


Duty Cycle NVNT ac20 5180MHz Ant1

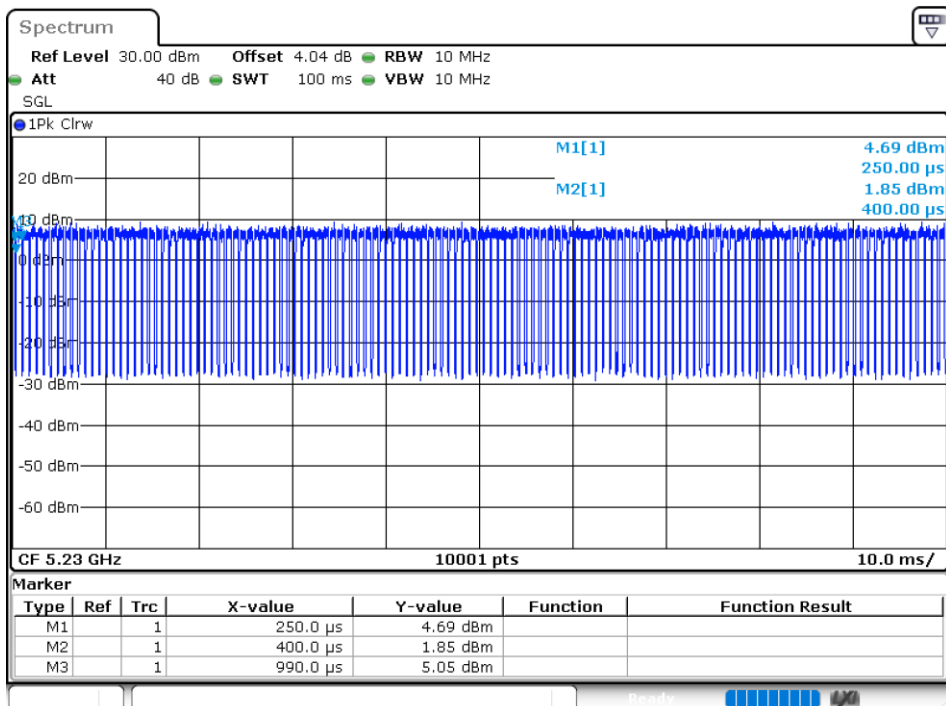


Duty Cycle NVNT ac20 5200MHz Ant1

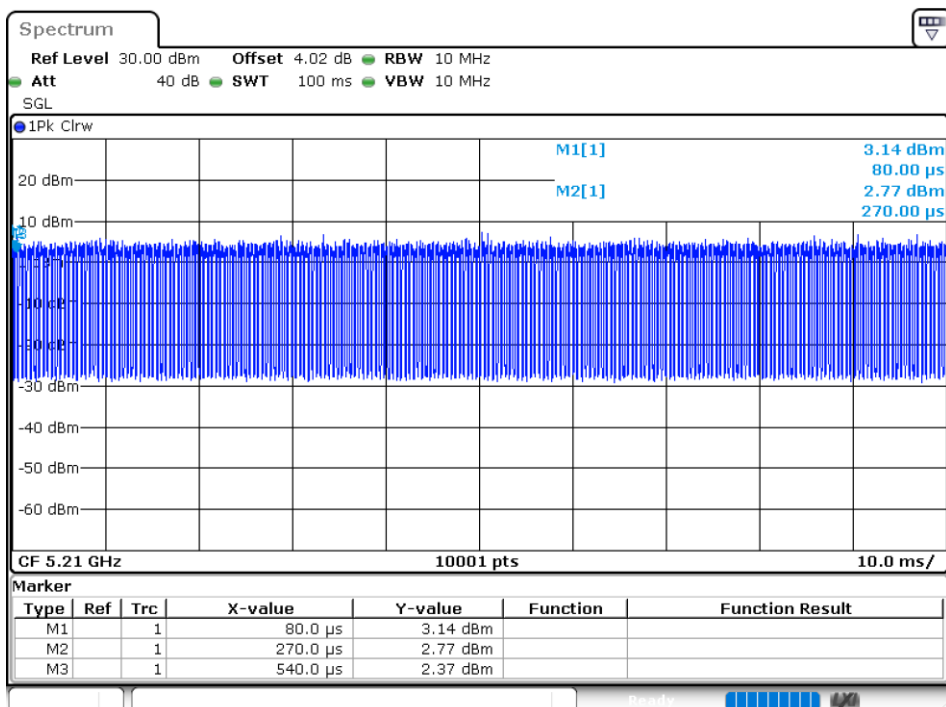




Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	4.94	24	Pass
NVNT	a	5200	Ant1	5.21	24	Pass
NVNT	a	5240	Ant1	5.48	24	Pass
NVNT	n20	5180	Ant1	4.96	24	Pass
NVNT	n20	5200	Ant1	5.13	24	Pass
NVNT	n20	5240	Ant1	5.29	24	Pass
NVNT	n40	5190	Ant1	5.33	24	Pass
NVNT	n40	5230	Ant1	5.78	24	Pass
NVNT	ac20	5180	Ant1	4.87	24	Pass
NVNT	ac20	5200	Ant1	5.1	24	Pass
NVNT	ac20	5240	Ant1	5.49	24	Pass
NVNT	ac40	5190	Ant1	5.26	24	Pass
NVNT	ac40	5230	Ant1	5.55	24	Pass
NVNT	ac80	5210	Ant1	5.29	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.659	0.5	Pass
NVNT	a	5200	Ant1	19.818	0.5	Pass
NVNT	a	5240	Ant1	19.872	0.5	Pass
NVNT	n20	5180	Ant1	19.989	0.5	Pass
NVNT	n20	5200	Ant1	24.69	0.5	Pass
NVNT	n20	5240	Ant1	20.4	0.5	Pass
NVNT	n40	5190	Ant1	47.364	0.5	Pass
NVNT	n40	5230	Ant1	55.644	0.5	Pass
NVNT	ac20	5180	Ant1	23.55	0.5	Pass
NVNT	ac20	5200	Ant1	21.546	0.5	Pass
NVNT	ac20	5240	Ant1	20.658	0.5	Pass
NVNT	ac40	5190	Ant1	54.246	0.5	Pass
NVNT	ac40	5230	Ant1	54.198	0.5	Pass
NVNT	ac80	5210	Ant1	100.488	0.5	Pass

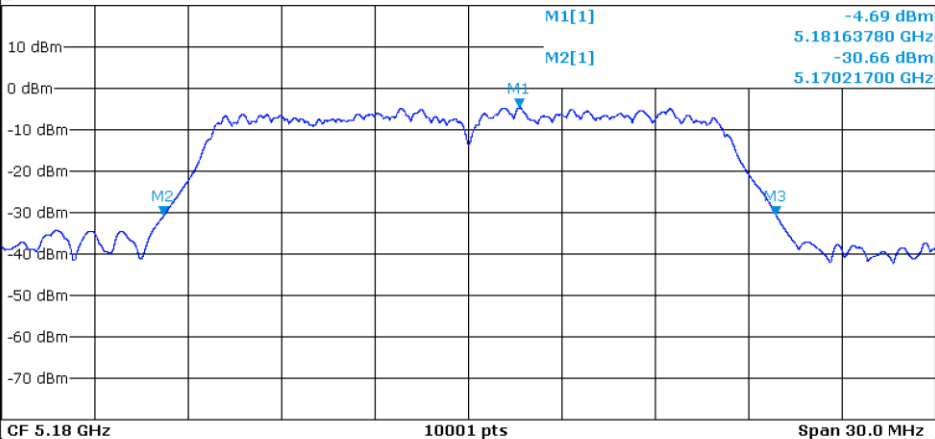
Test Graphs

-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



Marker

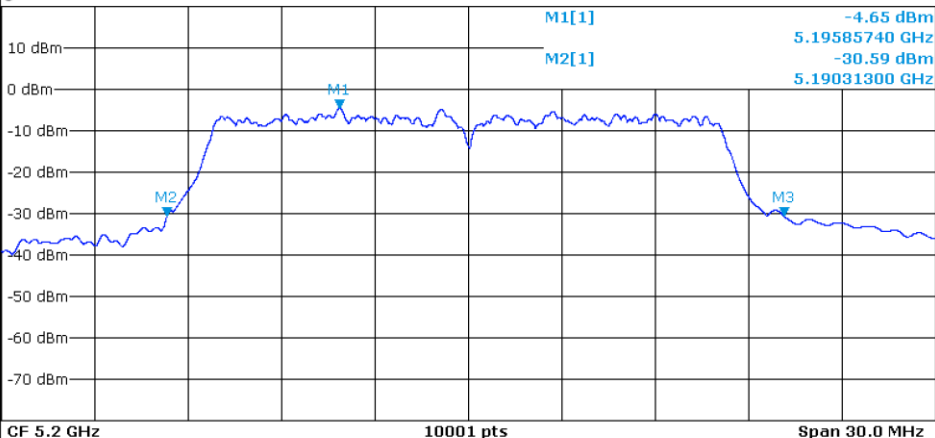
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1816378 GHz	-4.69 dBm		
M2	1		5.170217 GHz	-30.66 dBm		
M3	1		5.189876 GHz	-30.67 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

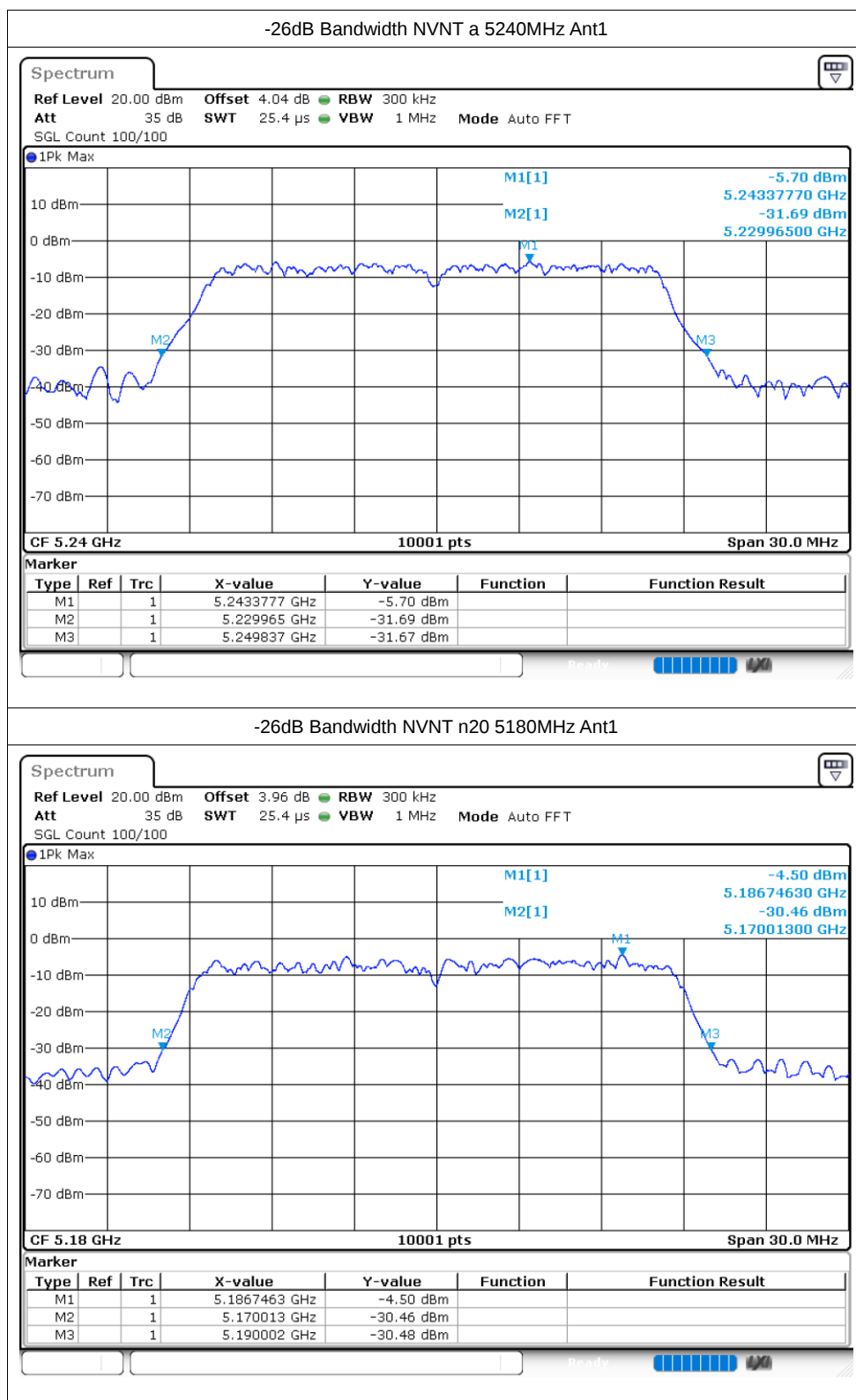
Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

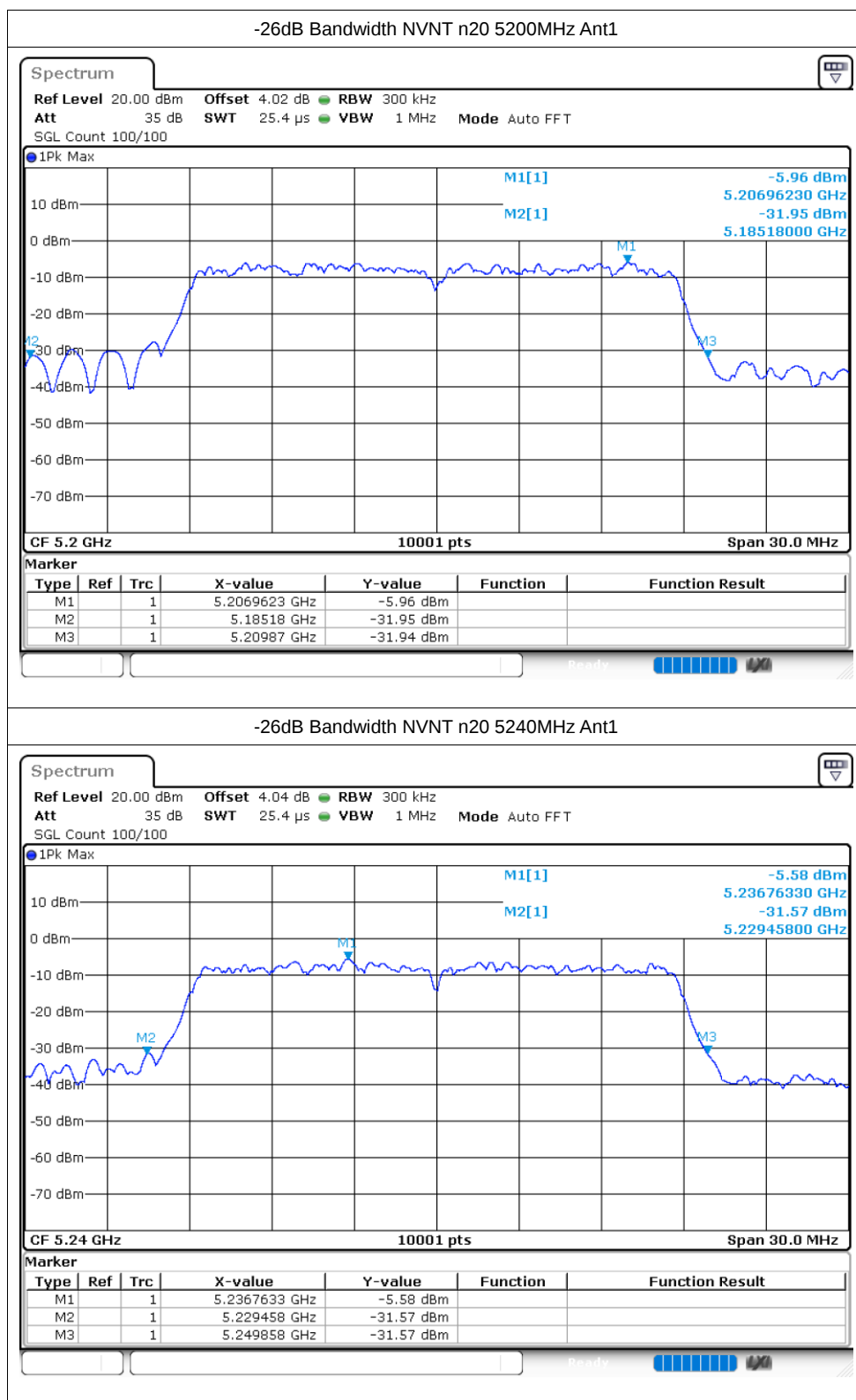
1Pk Max



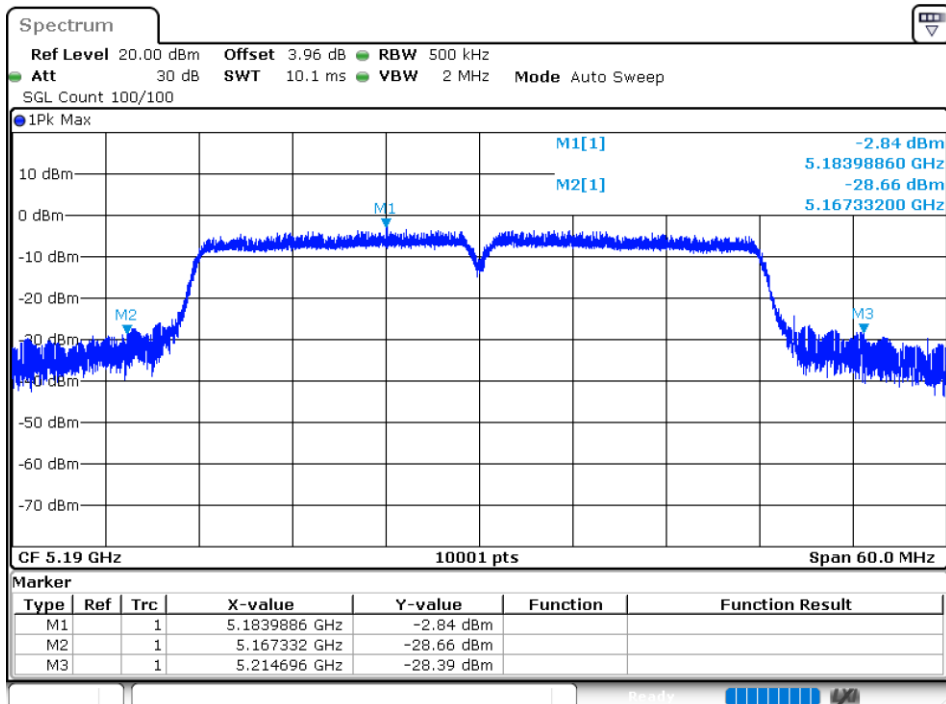
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1958574 GHz	-4.65 dBm		
M2	1		5.190313 GHz	-30.59 dBm		
M3	1		5.210131 GHz	-30.64 dBm		

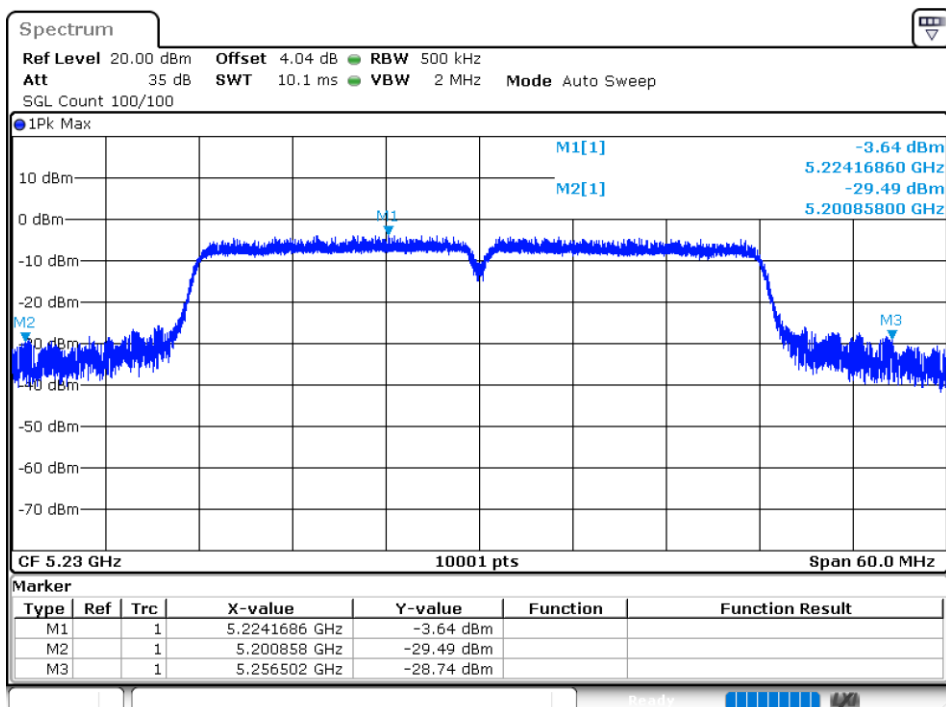


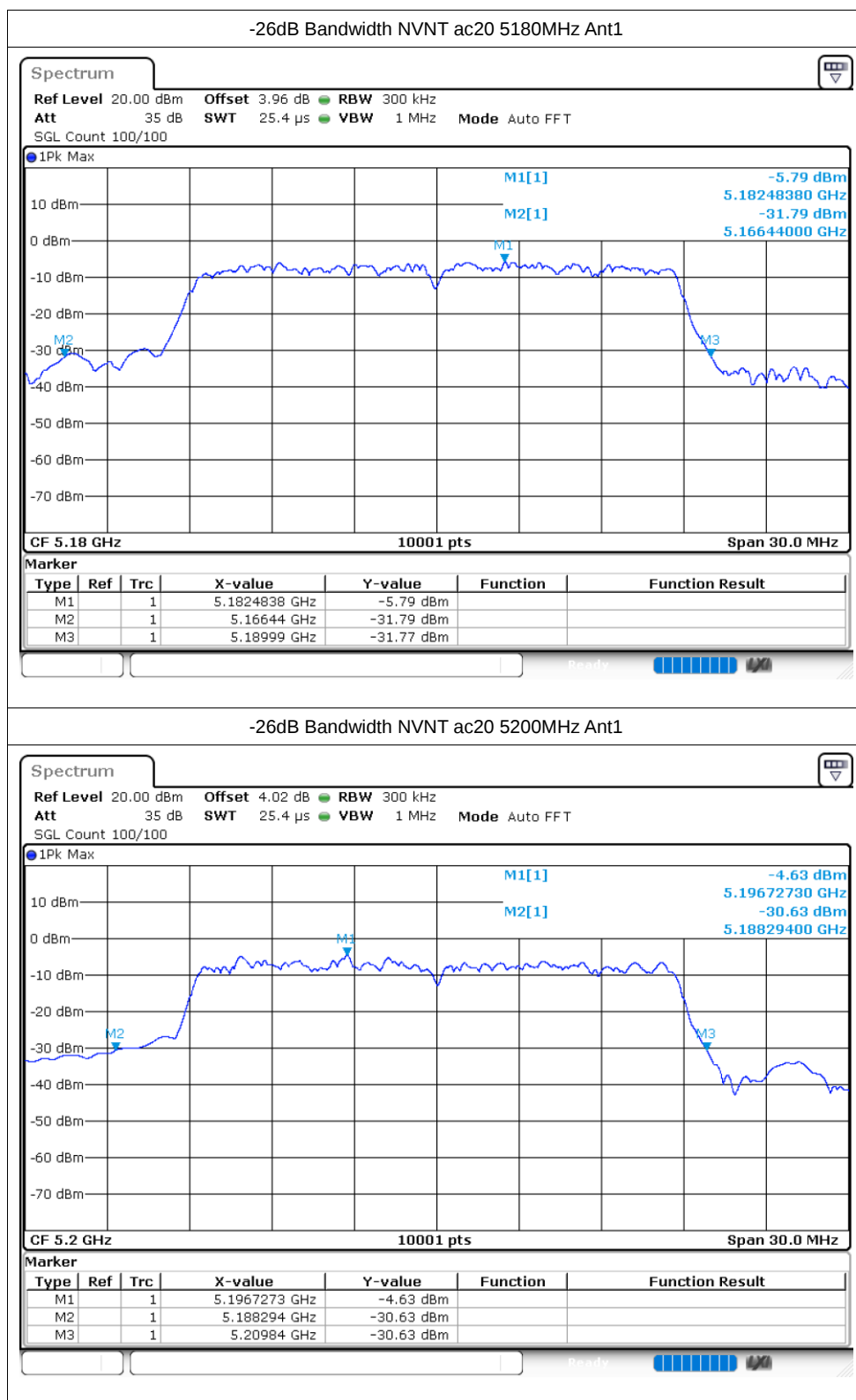


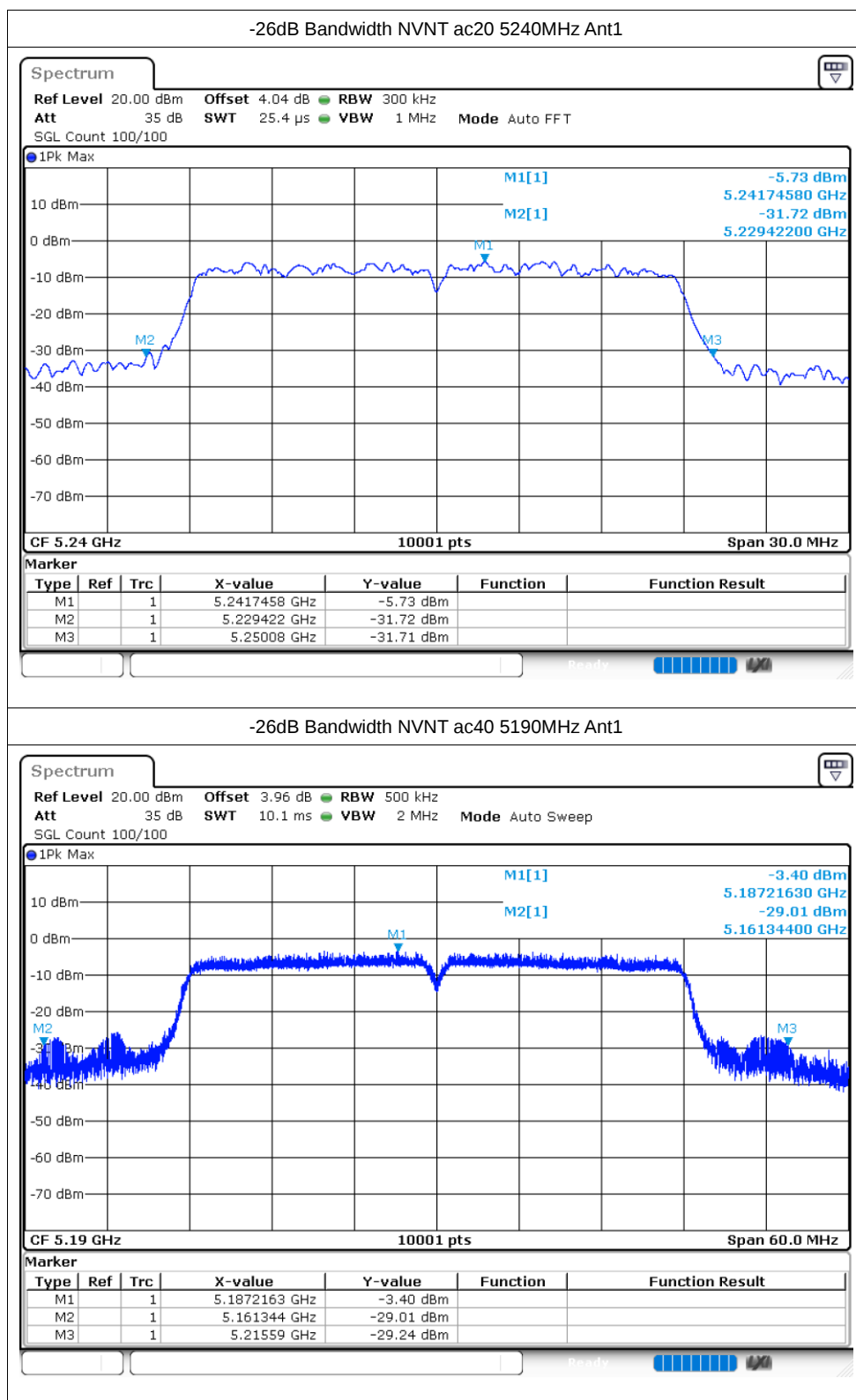
-26dB Bandwidth NVNT n40 5190MHz Ant1

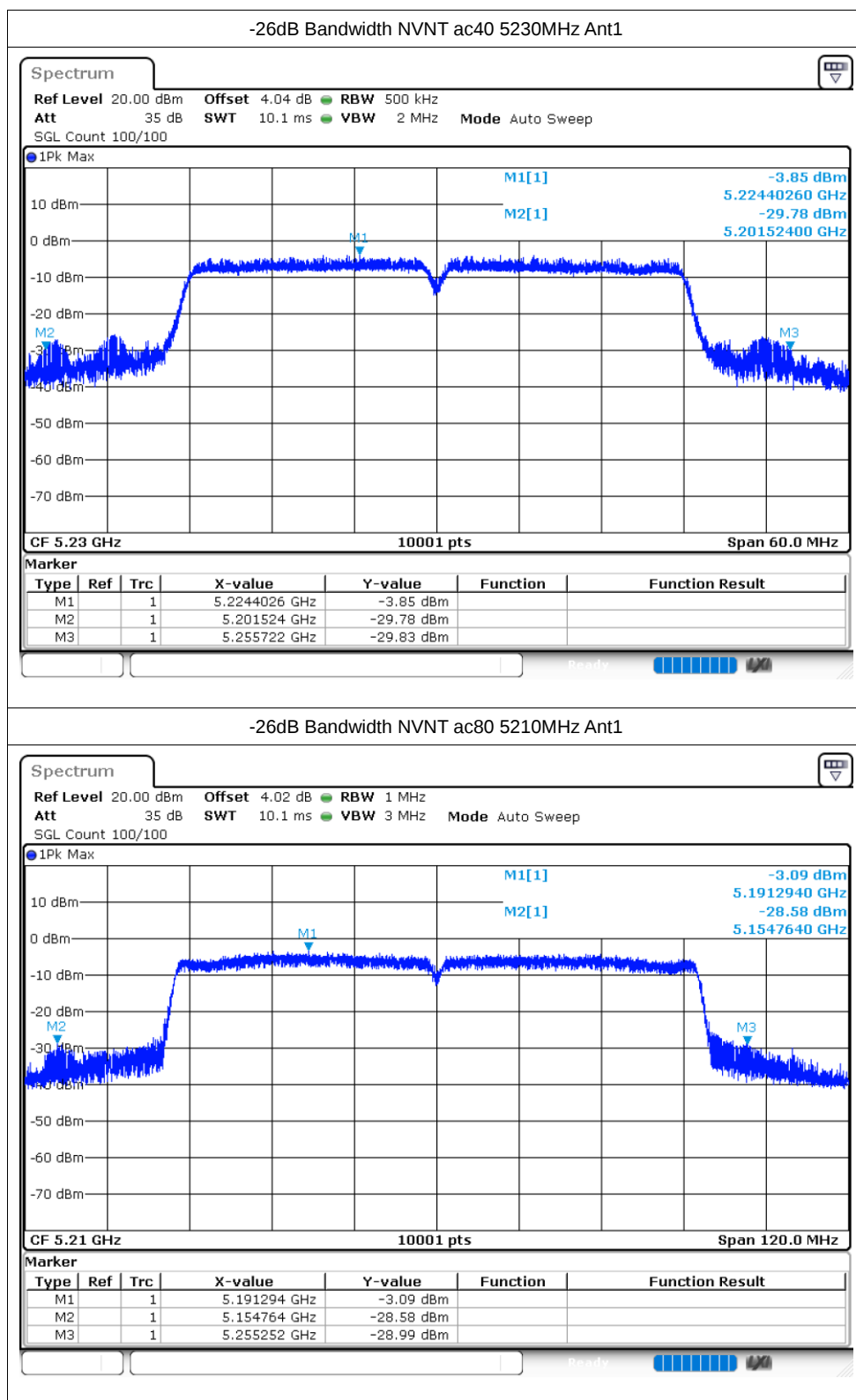


-26dB Bandwidth NVNT n40 5230MHz Ant1







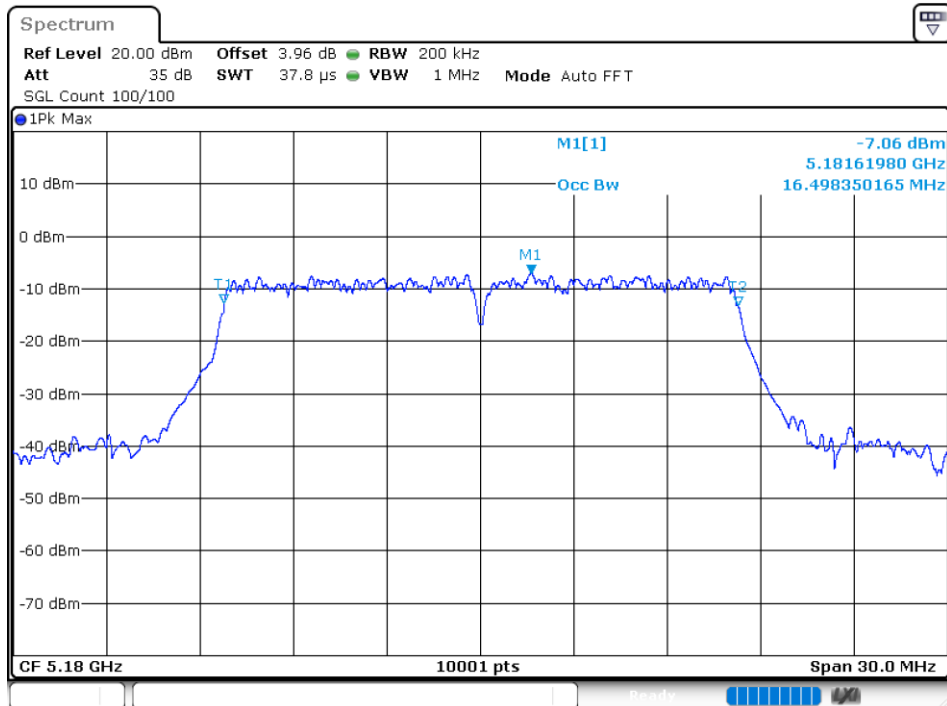


Occupied Channel Bandwidth

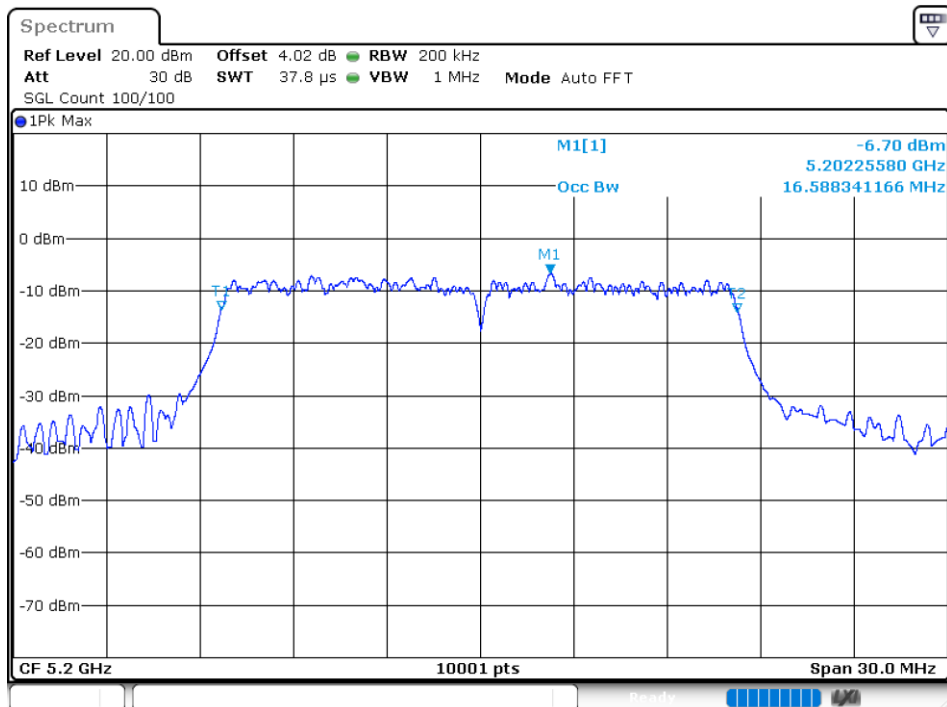
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.498
NVNT	a	5200	Ant1	16.588
NVNT	a	5240	Ant1	16.57
NVNT	n20	5180	Ant1	17.671
NVNT	n20	5200	Ant1	17.656
NVNT	n20	5240	Ant1	17.752
NVNT	n40	5190	Ant1	36.158
NVNT	n40	5230	Ant1	36.23
NVNT	ac20	5180	Ant1	17.626
NVNT	ac20	5200	Ant1	17.695
NVNT	ac20	5240	Ant1	17.629
NVNT	ac40	5190	Ant1	36.134
NVNT	ac40	5230	Ant1	36.188
NVNT	ac80	5210	Ant1	75.484

Test Graphs

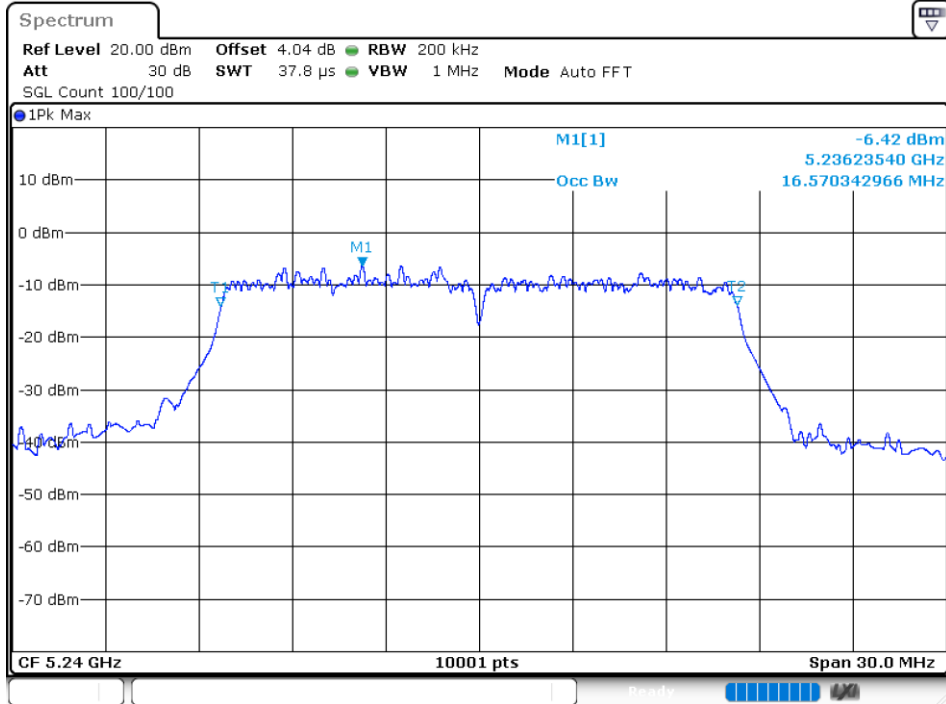
OBW NVNT a 5180MHz Ant1



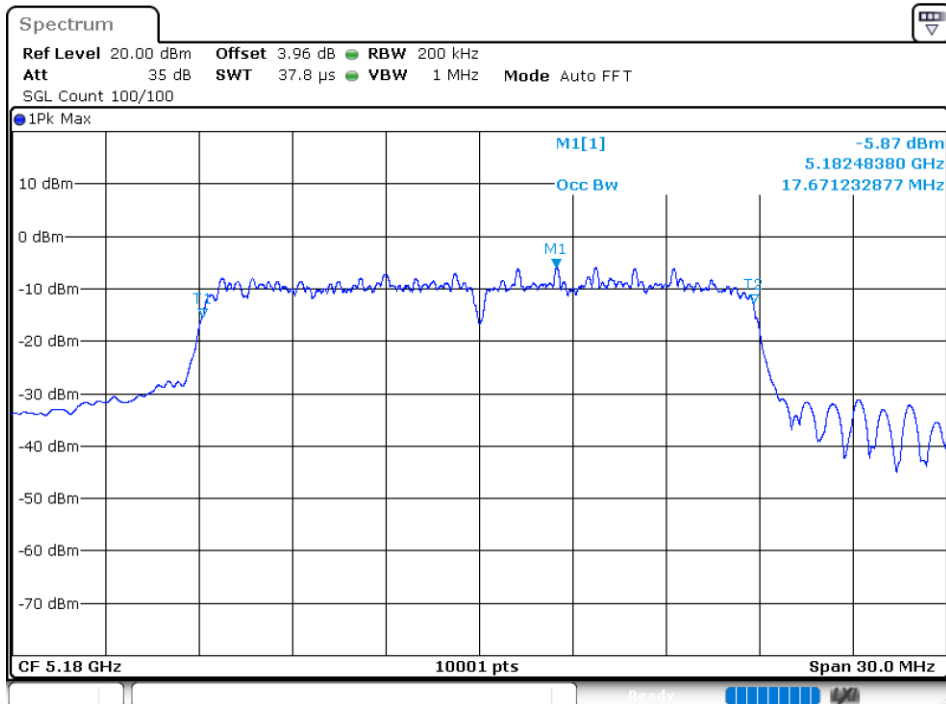
OBW NVNT a 5200MHz Ant1

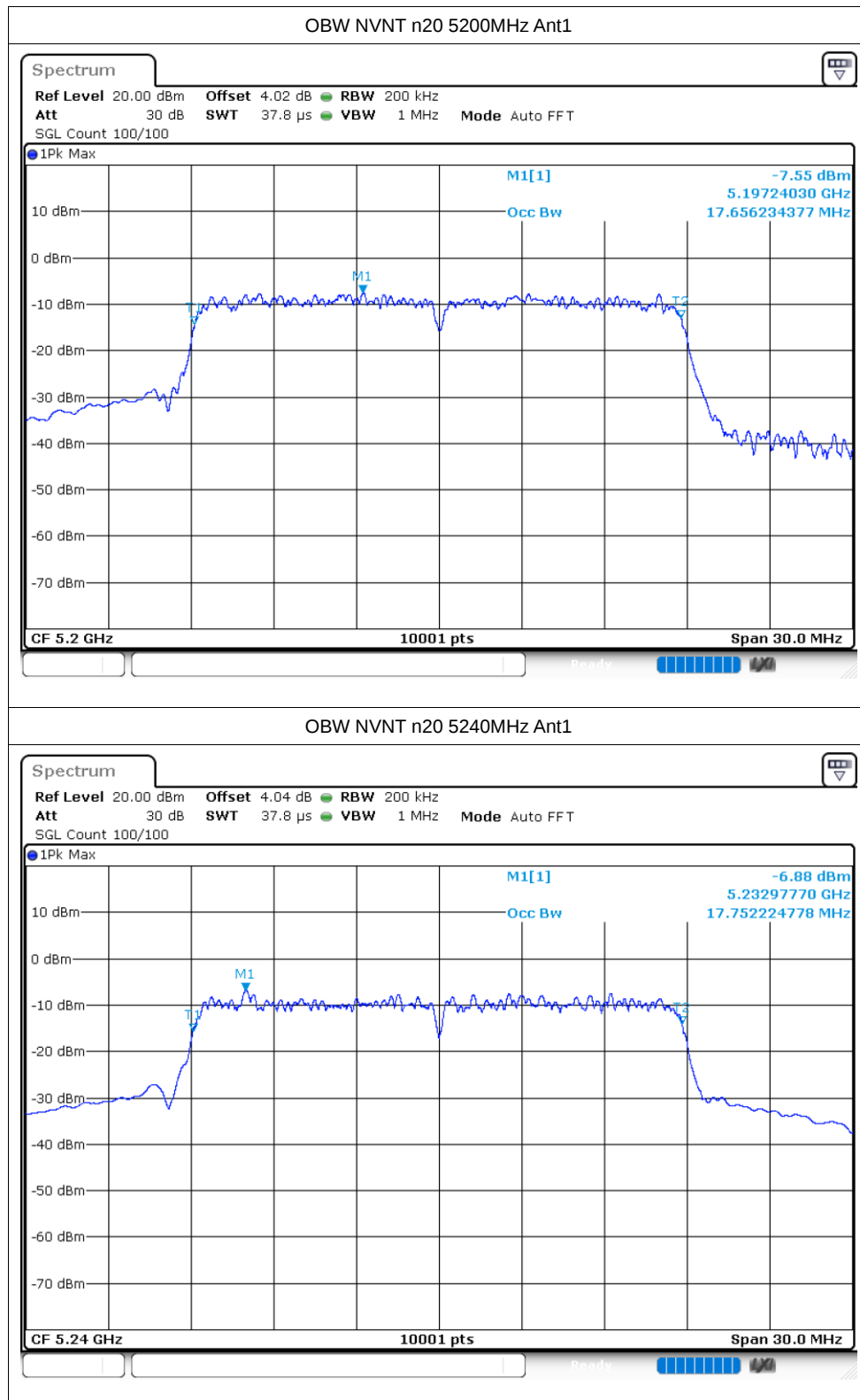


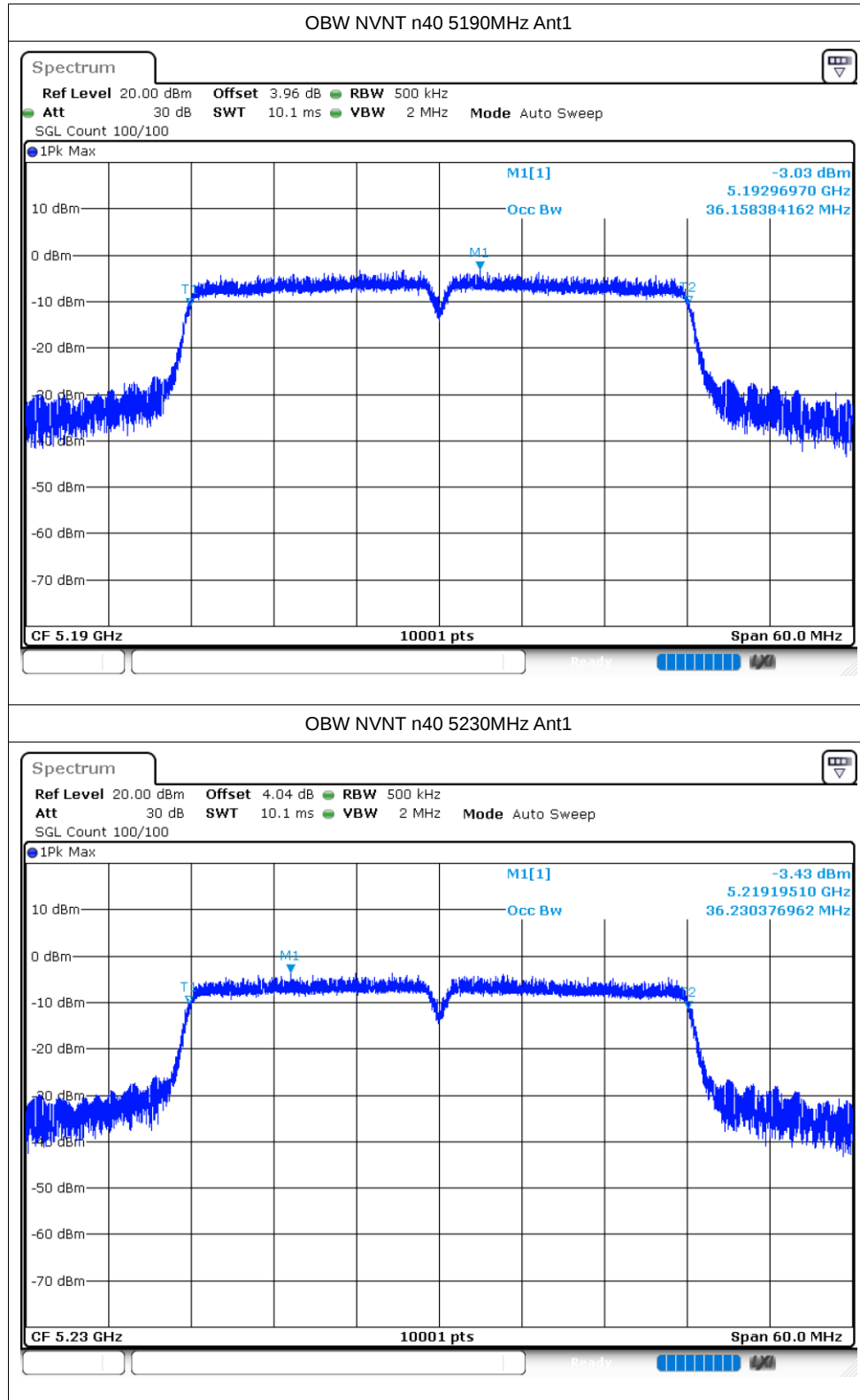
OBW NVNT a 5240MHz Ant1

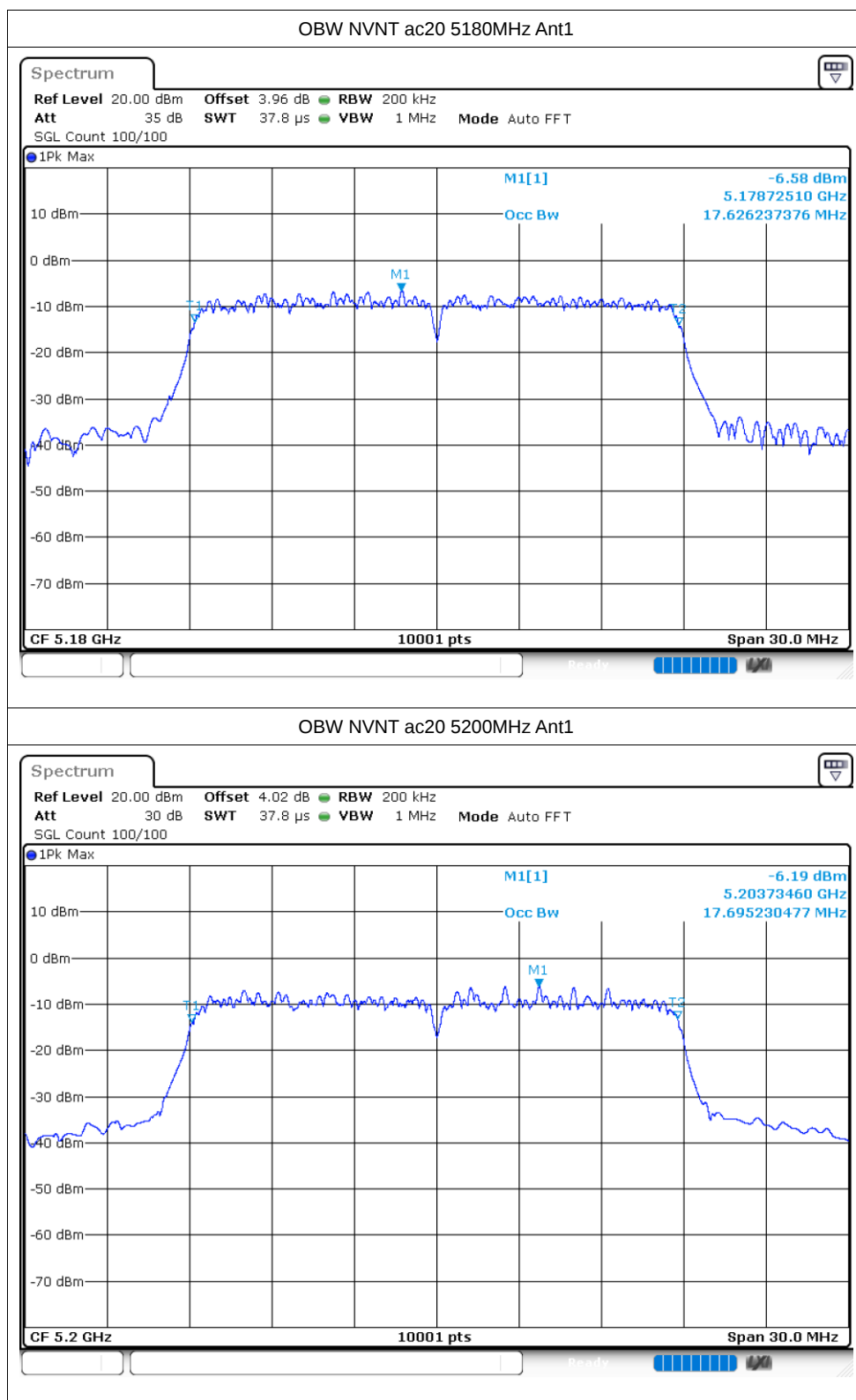


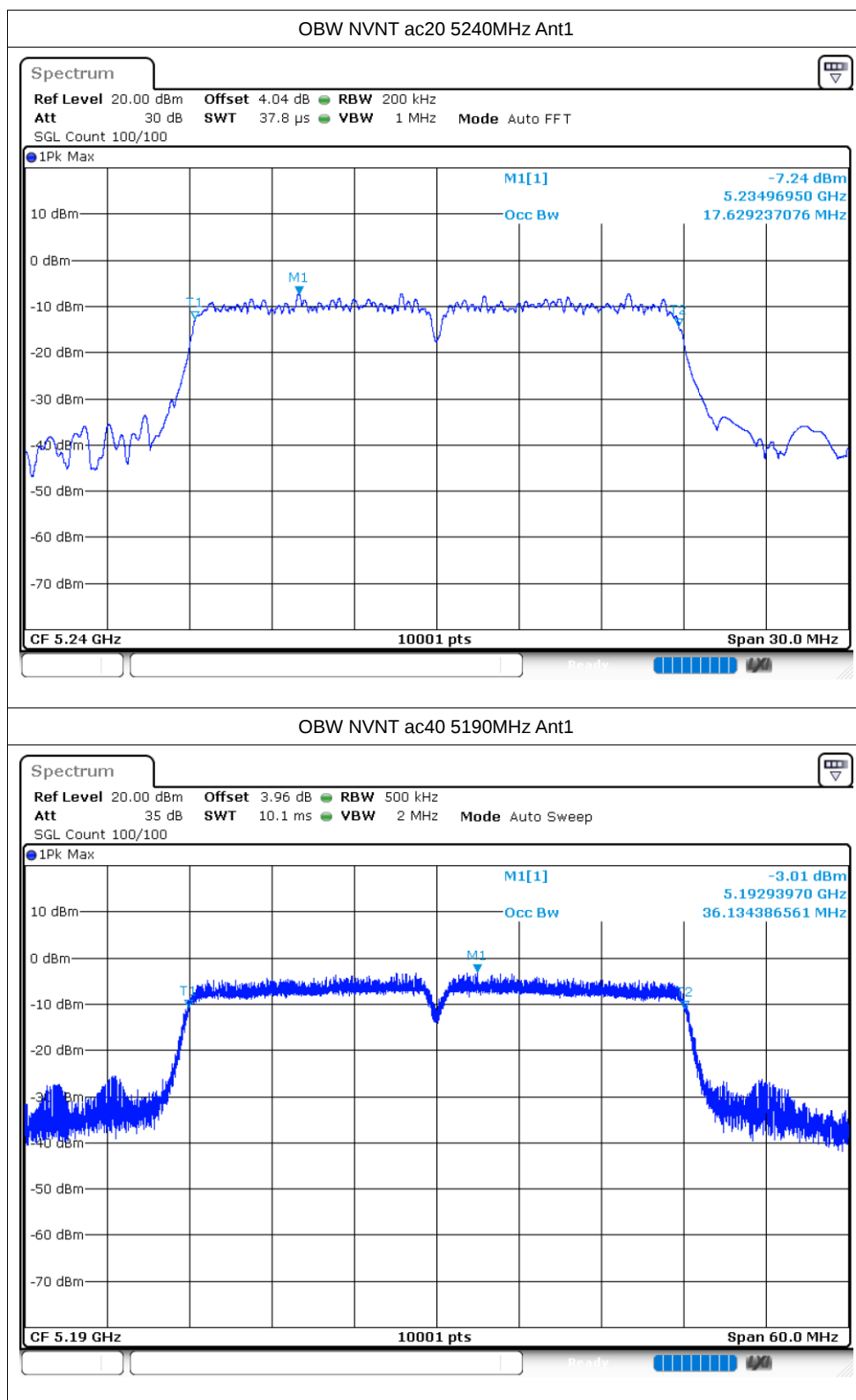
OBW NVNT n20 5180MHz Ant1

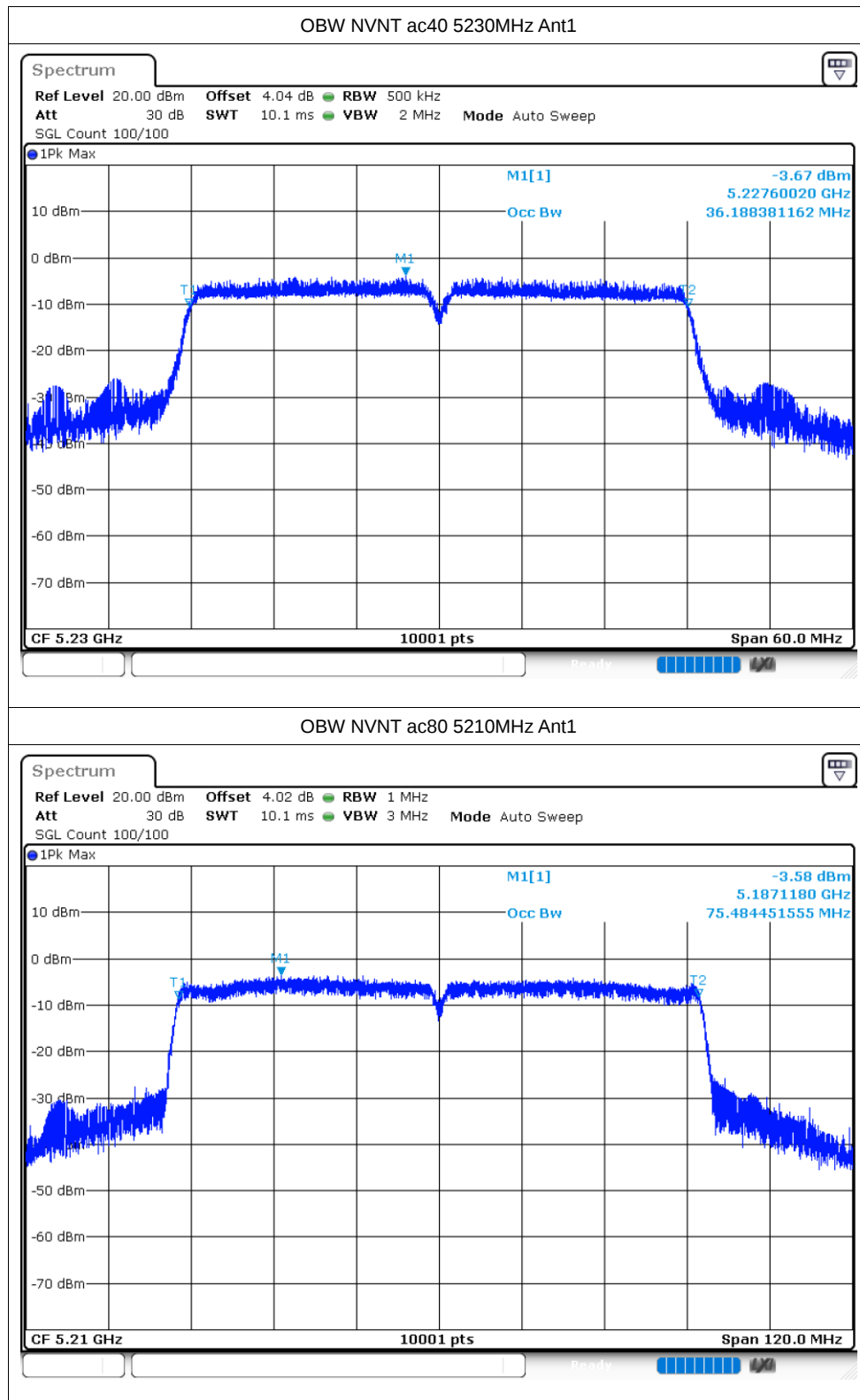










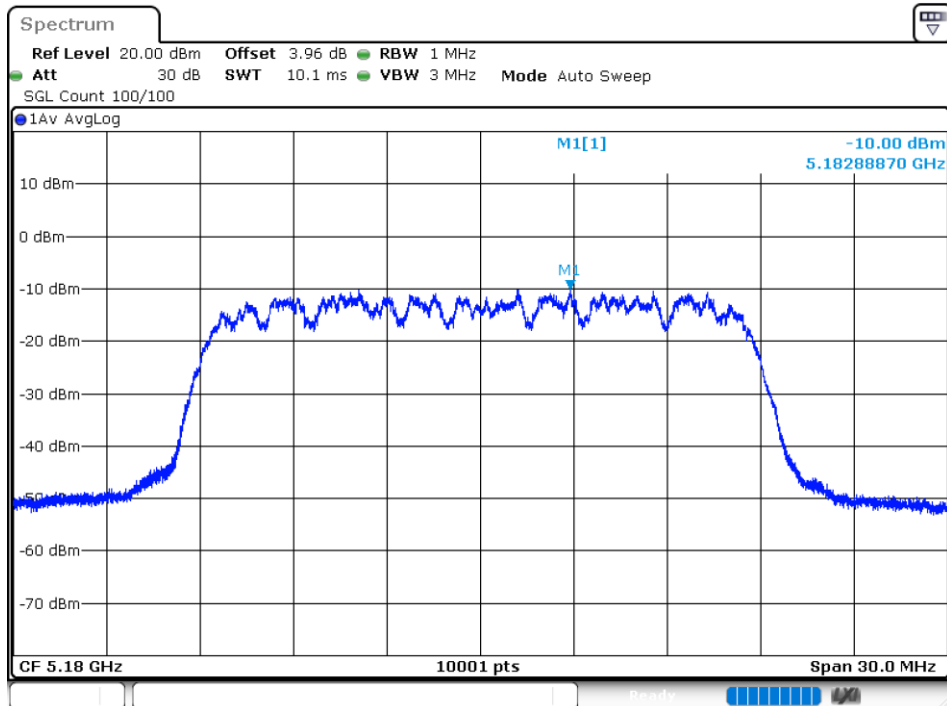


Maximum Power Spectral Density Level

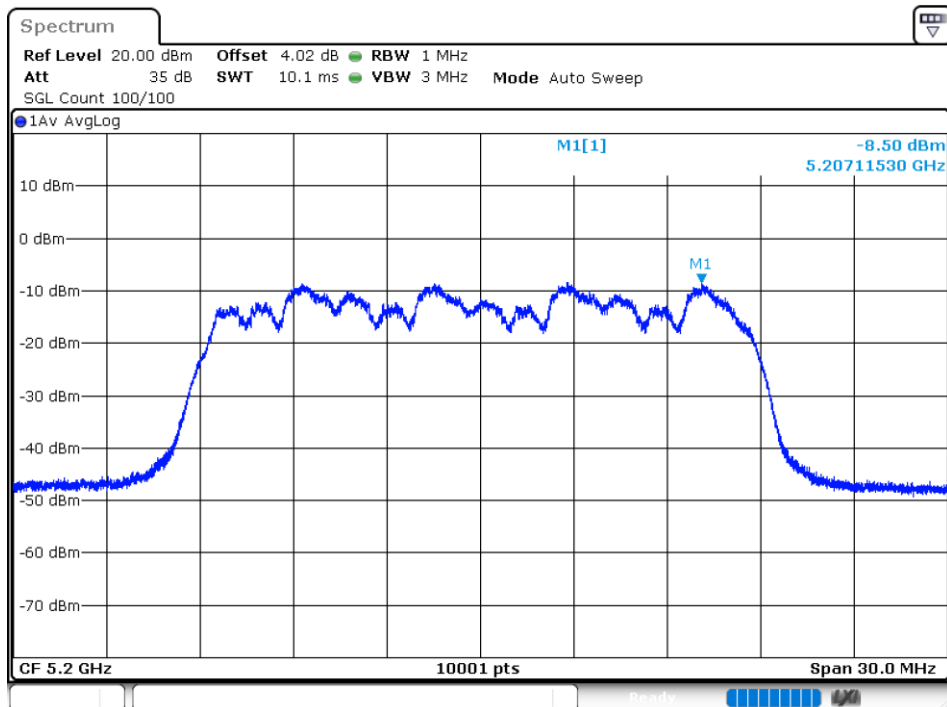
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-10	0.45	-9.55	11	Pass
NVNT	a	5200	Ant1	-8.5	0.45	-8.05	11	Pass
NVNT	a	5240	Ant1	-9.56	0.43	-9.13	11	Pass
NVNT	n20	5180	Ant1	-10.85	0.52	-10.33	11	Pass
NVNT	n20	5200	Ant1	-11.07	0.51	-10.56	11	Pass
NVNT	n20	5240	Ant1	-9.89	0.51	-9.38	11	Pass
NVNT	n40	5190	Ant1	-15.37	1.09	-14.28	11	Pass
NVNT	n40	5230	Ant1	-17.86	0.94	-16.92	11	Pass
NVNT	ac20	5180	Ant1	-11.14	0.51	-10.63	11	Pass
NVNT	ac20	5200	Ant1	-10.78	0.5	-10.28	11	Pass
NVNT	ac20	5240	Ant1	-11.72	0.56	-11.16	11	Pass
NVNT	ac40	5190	Ant1	-15.24	0.94	-14.3	11	Pass
NVNT	ac40	5230	Ant1	-17.08	0.96	-16.12	11	Pass
NVNT	ac80	5210	Ant1	-23.78	1.96	-21.82	11	Pass

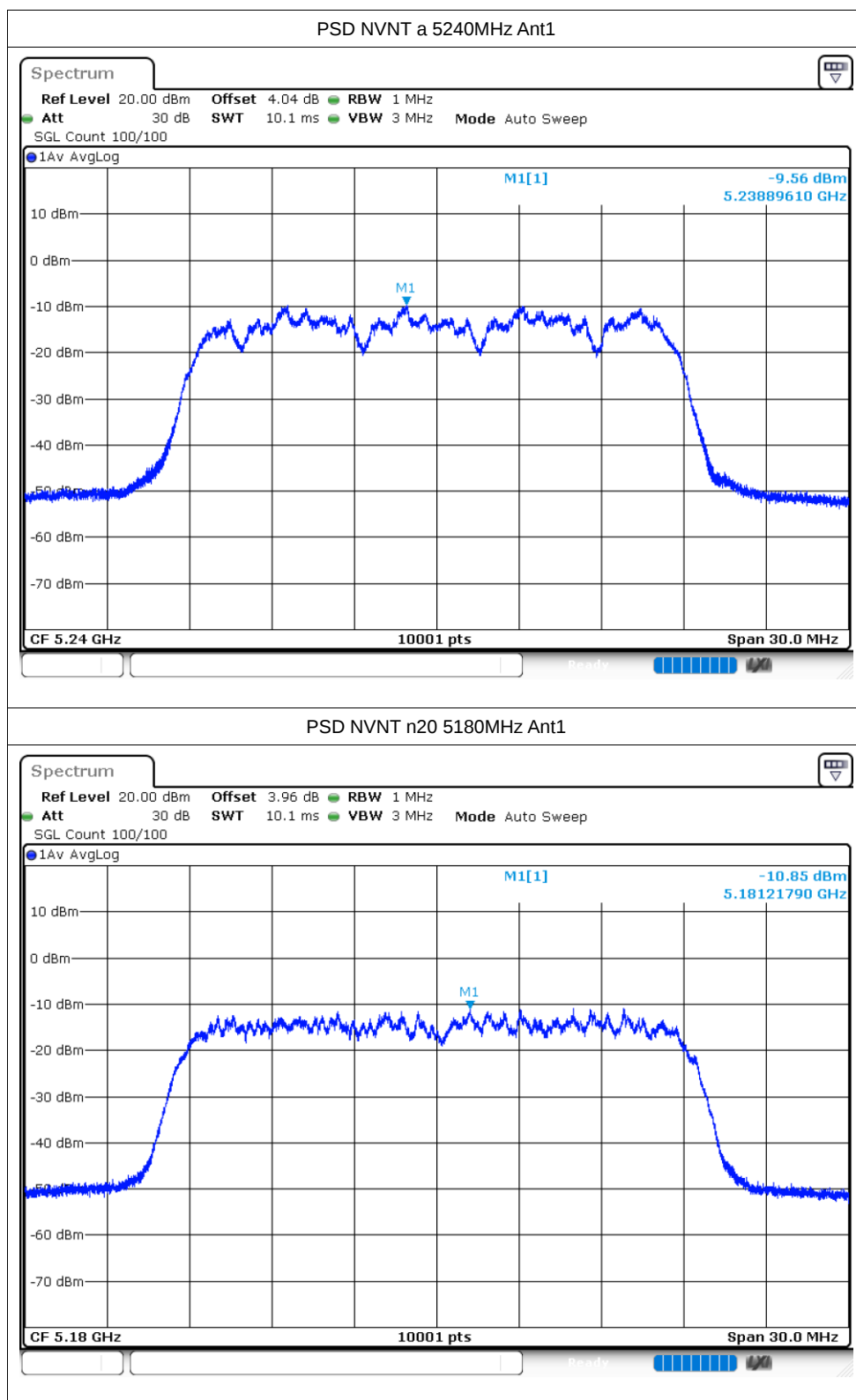
Test Graphs

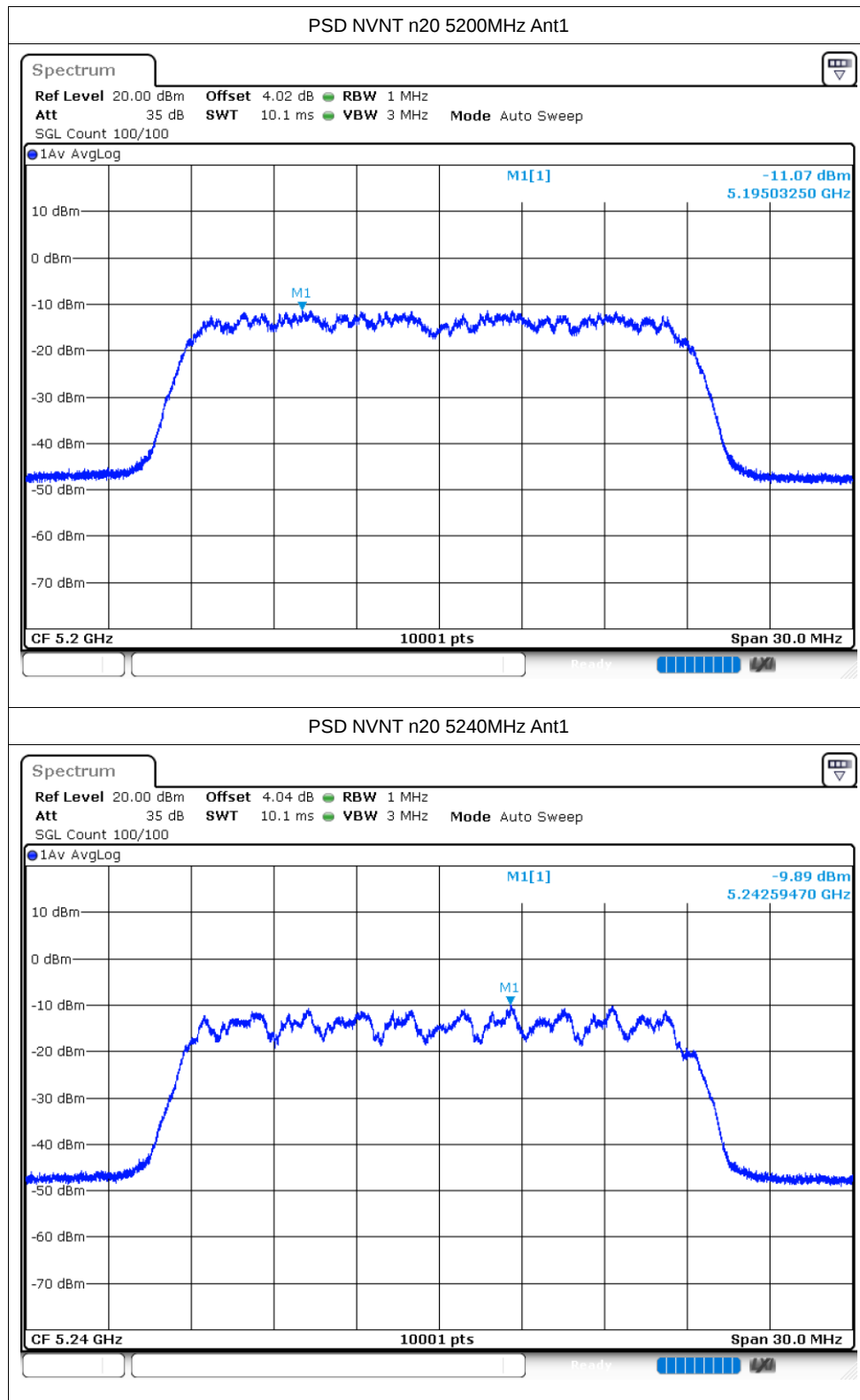
PSD NVNT a 5180MHz Ant1

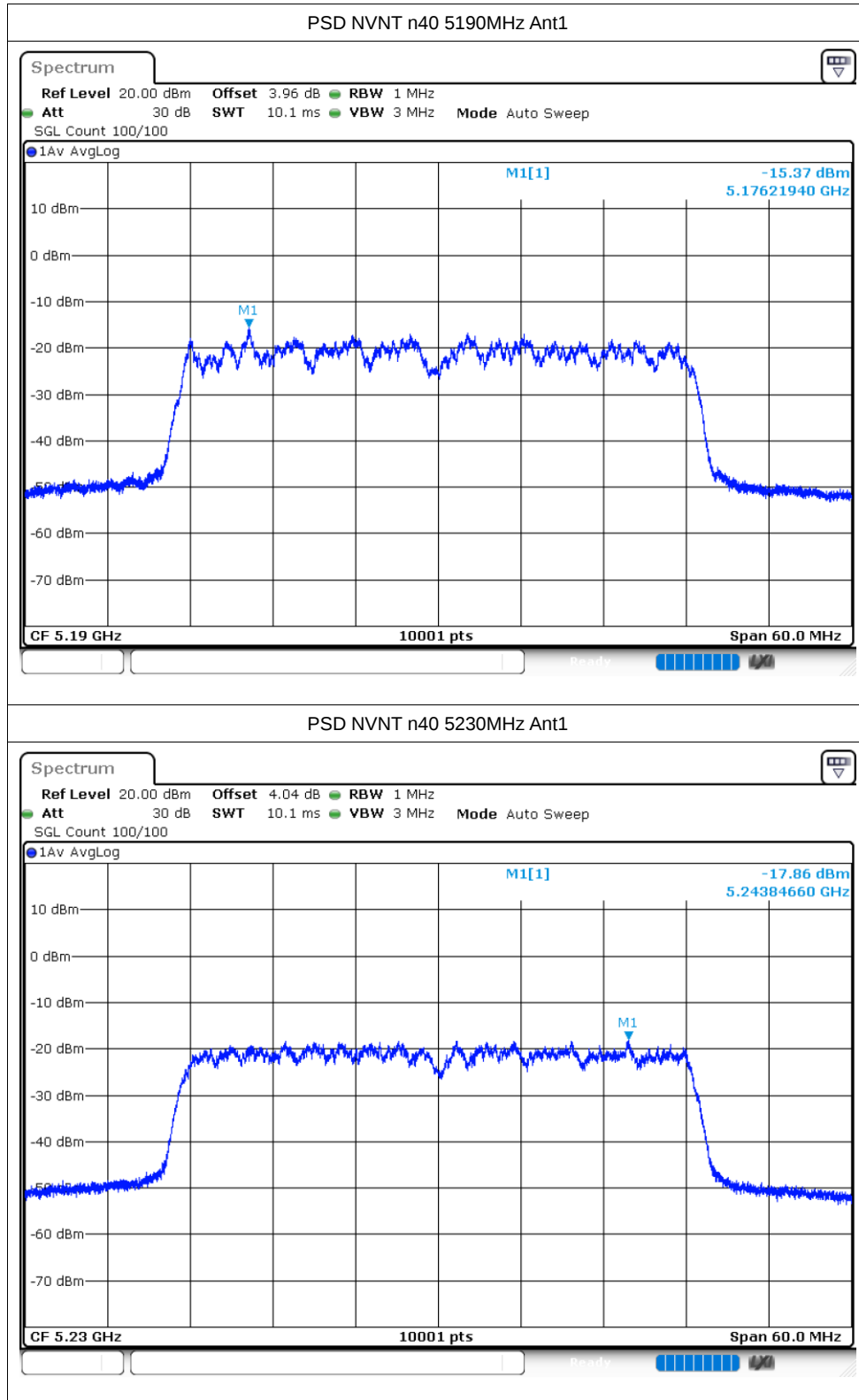


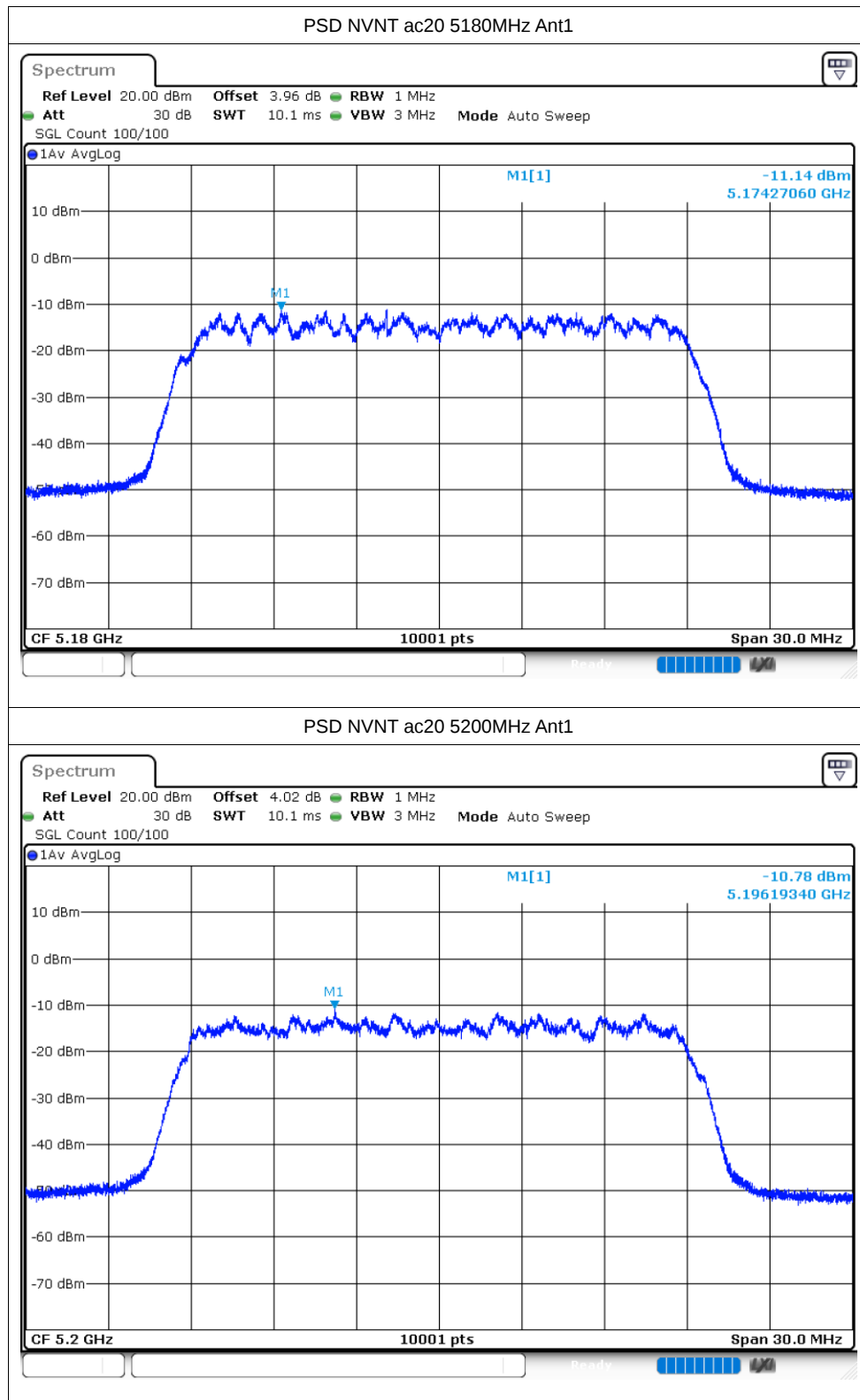
PSD NVNT a 5200MHz Ant1

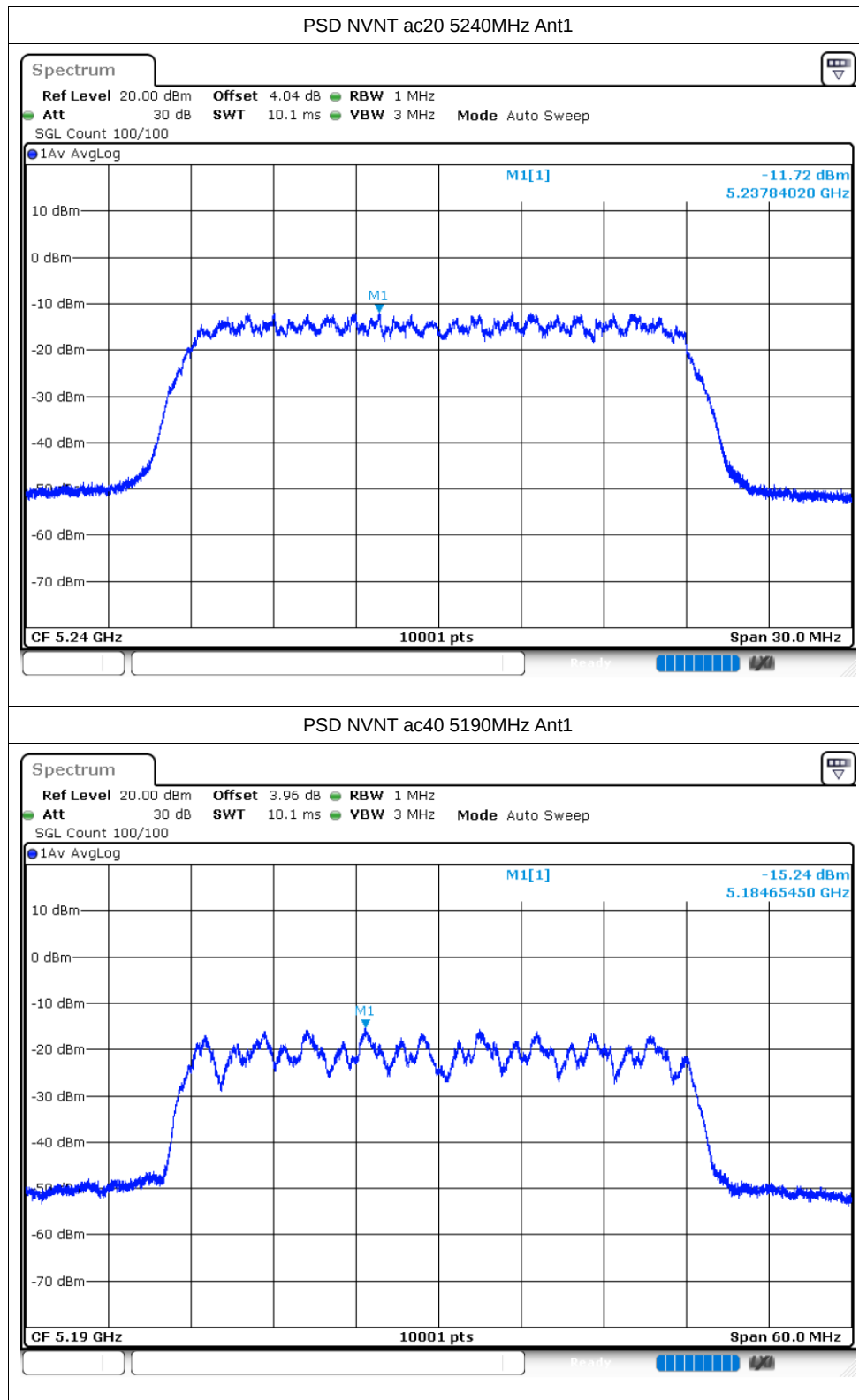


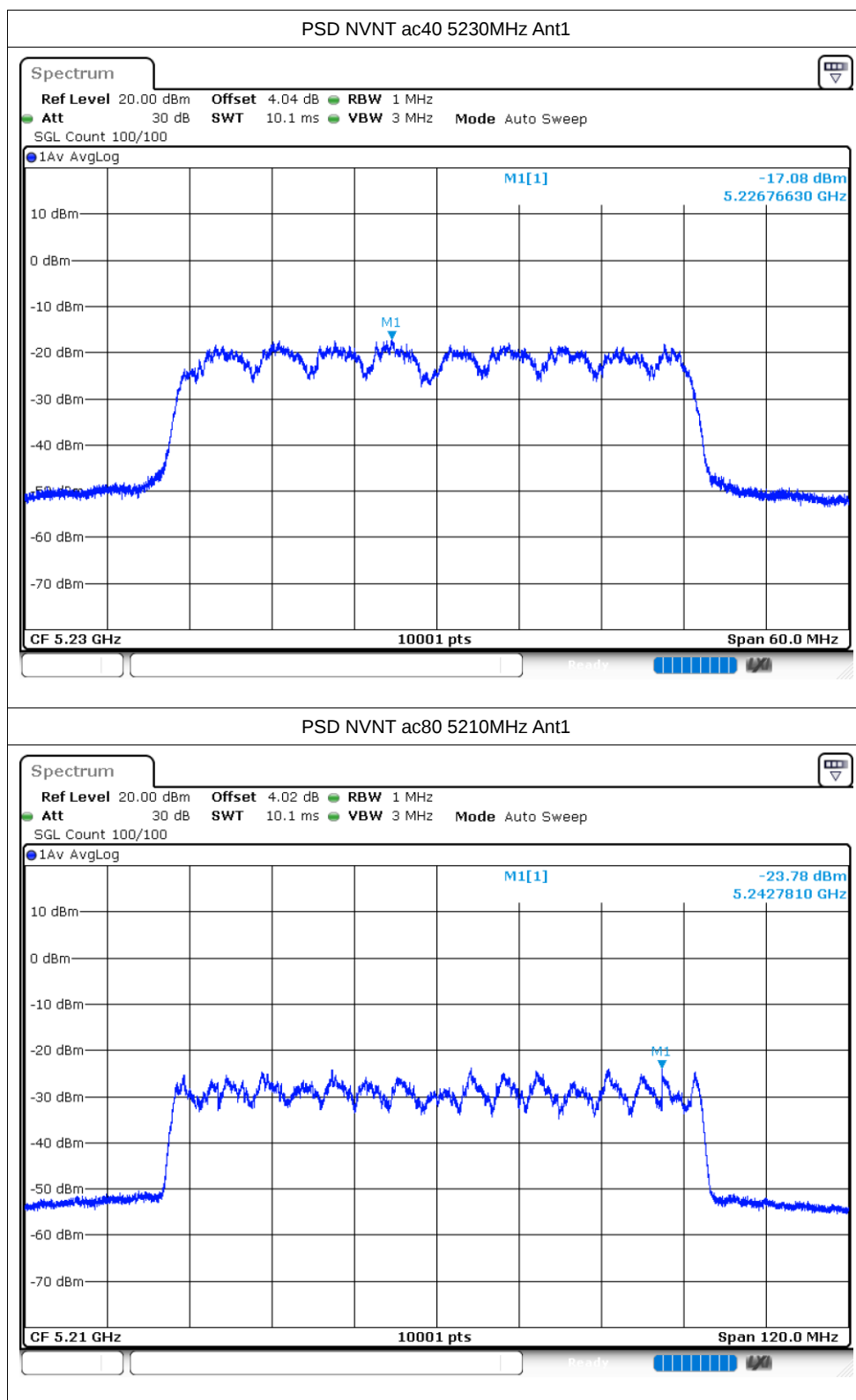










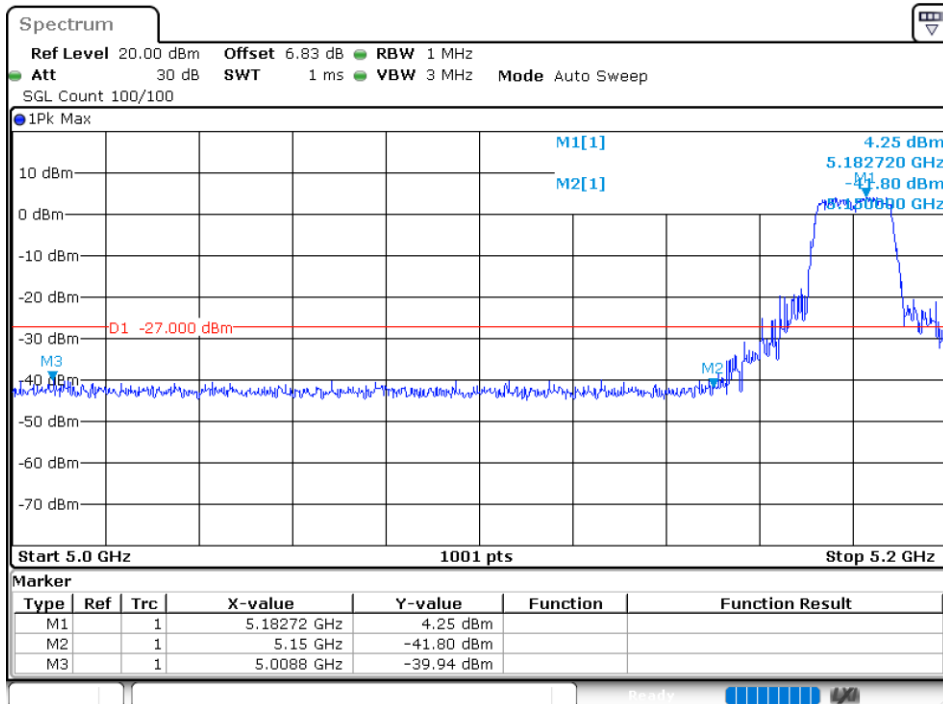


Band Edge

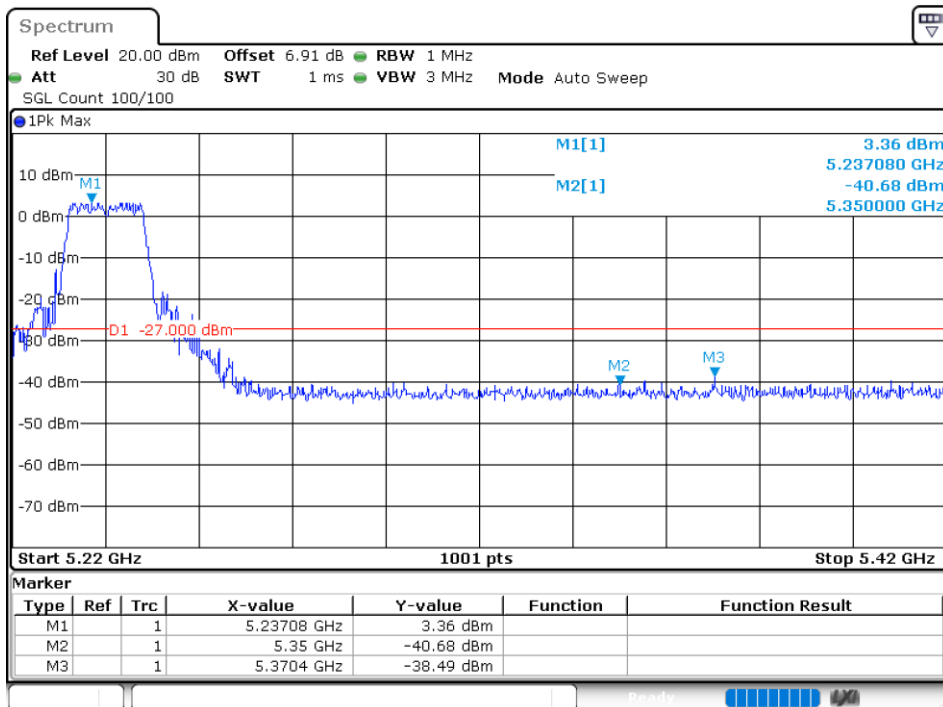
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-39.94	-27	Pass
NVNT	a	5240	Ant1	-38.48	-27	Pass
NVNT	n20	5180	Ant1	-36.53	-27	Pass
NVNT	n20	5240	Ant1	-40.1	-27	Pass
NVNT	n40	5190	Ant1	-33.09	-27	Pass
NVNT	n40	5230	Ant1	-39.83	-27	Pass
NVNT	ac20	5180	Ant1	-39.33	-27	Pass
NVNT	ac20	5240	Ant1	-39.56	-27	Pass
NVNT	ac40	5190	Ant1	-36.52	-27	Pass
NVNT	ac40	5230	Ant1	-40.05	-27	Pass
NVNT	ac80	5210	Ant1	-39.84	-27	Pass
NVNT	ac80	5210	Ant1	-37.6	-27	Pass

Test Graphs

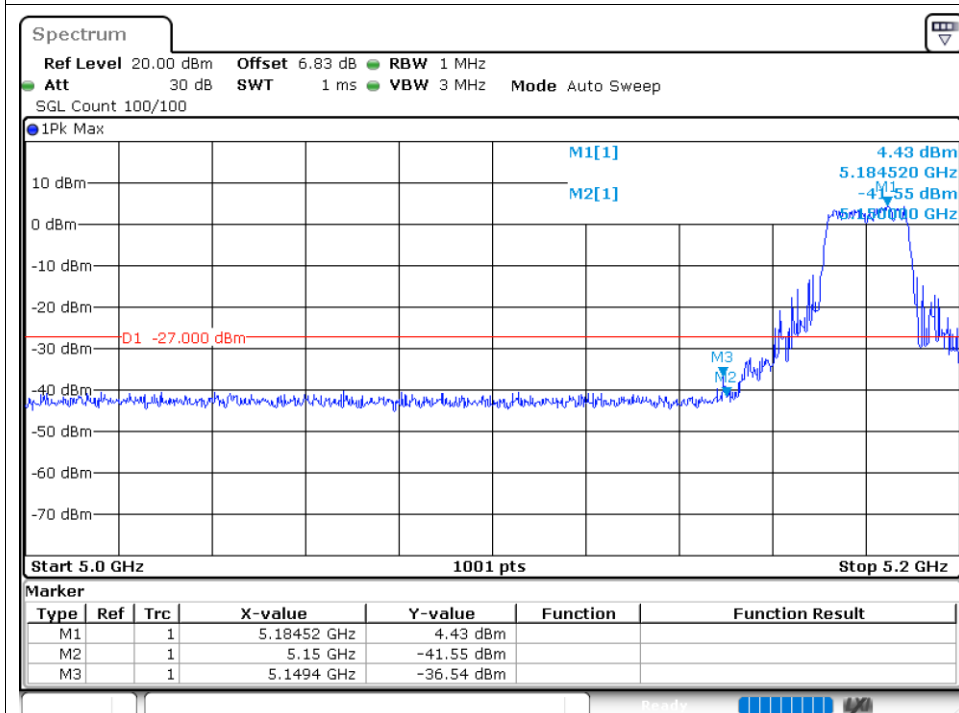
Band Edge NVNT a 5180MHz Low Ant1



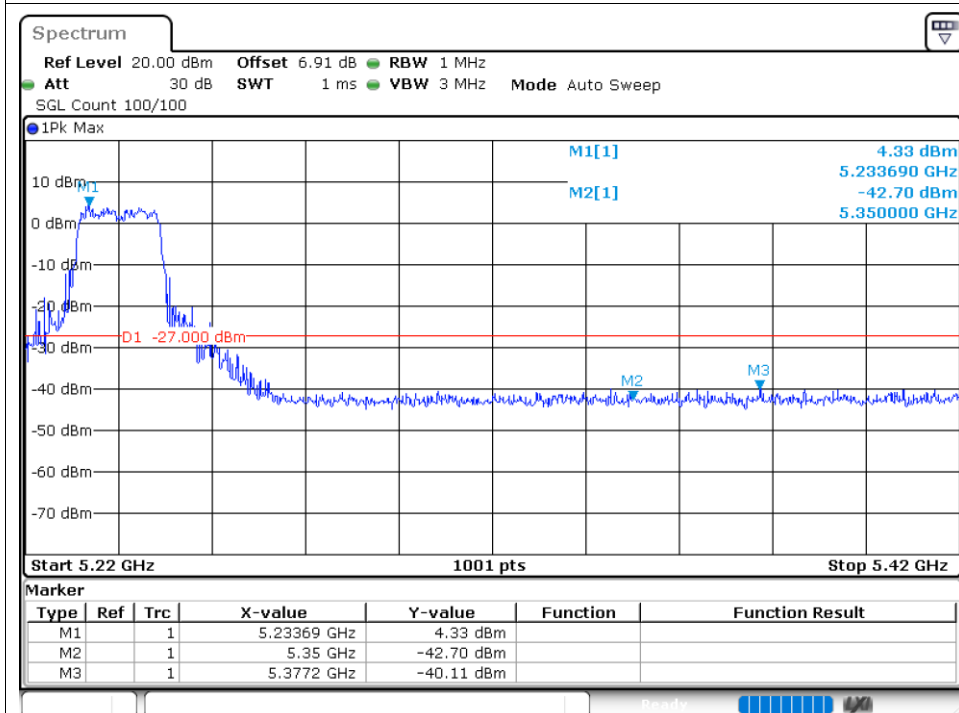
Band Edge NVNT a 5240MHz High Ant1



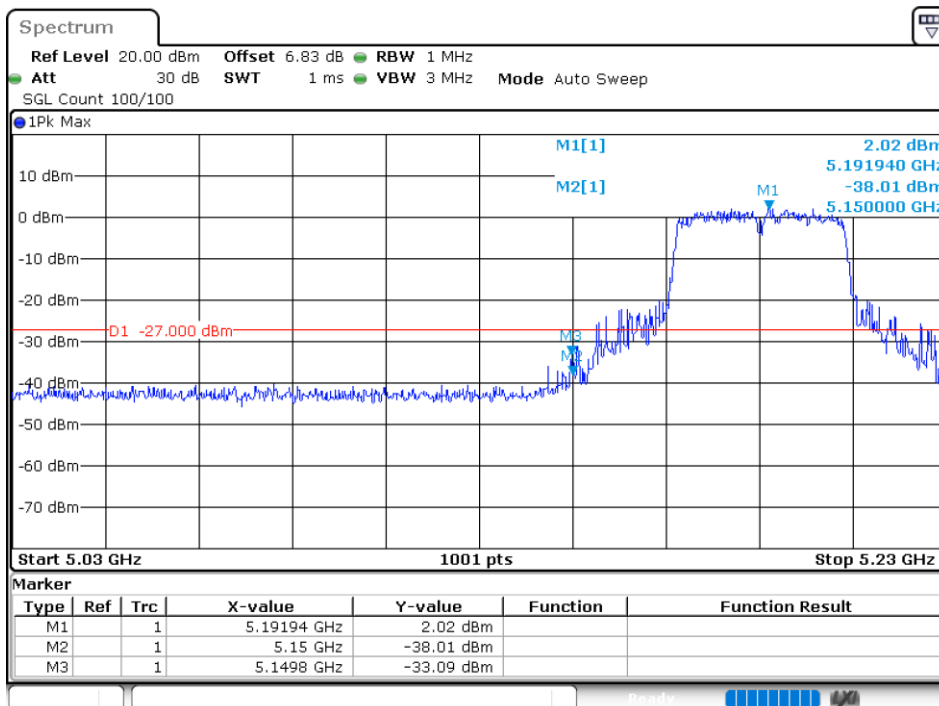
Band Edge NVNT n20 5180MHz Low Ant1



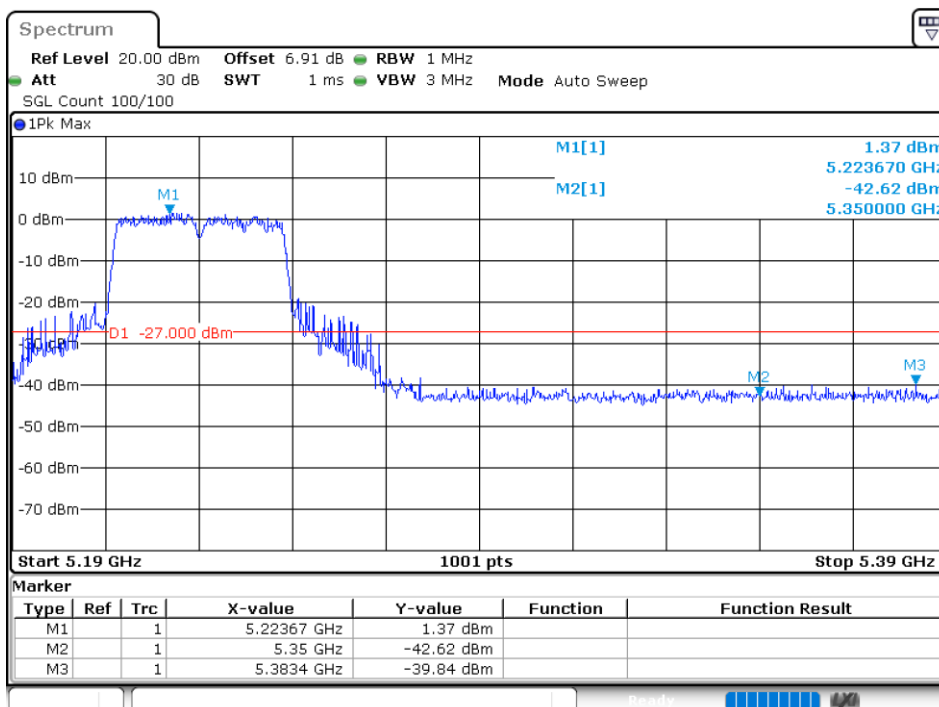
Band Edge NVNT n20 5240MHz High Ant1



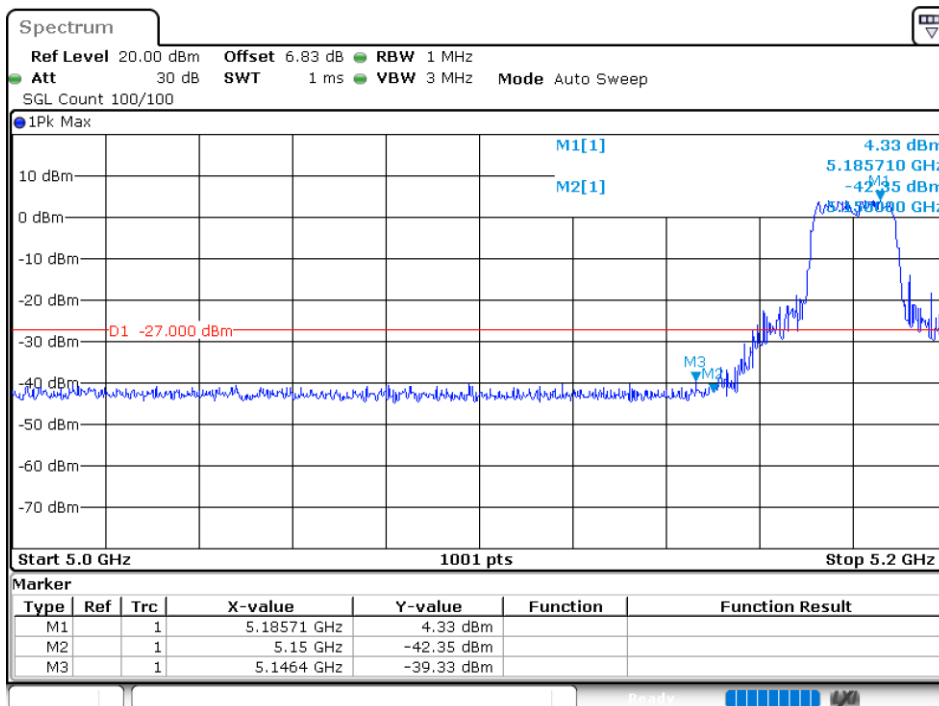
Band Edge NVNT n40 5190MHz Low Ant1



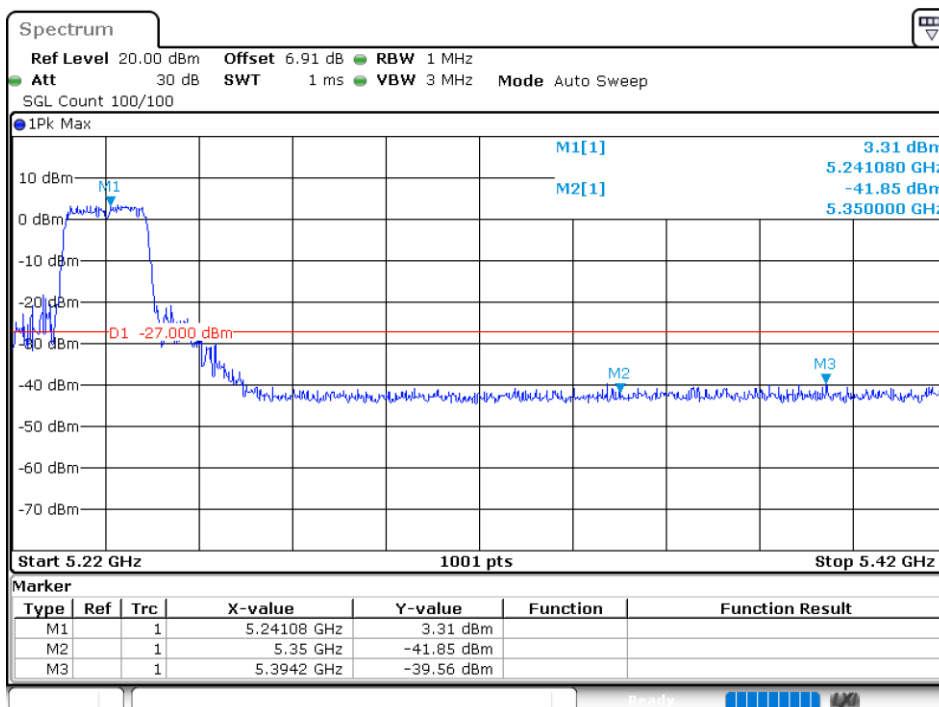
Band Edge NVNT n40 5230MHz High Ant1

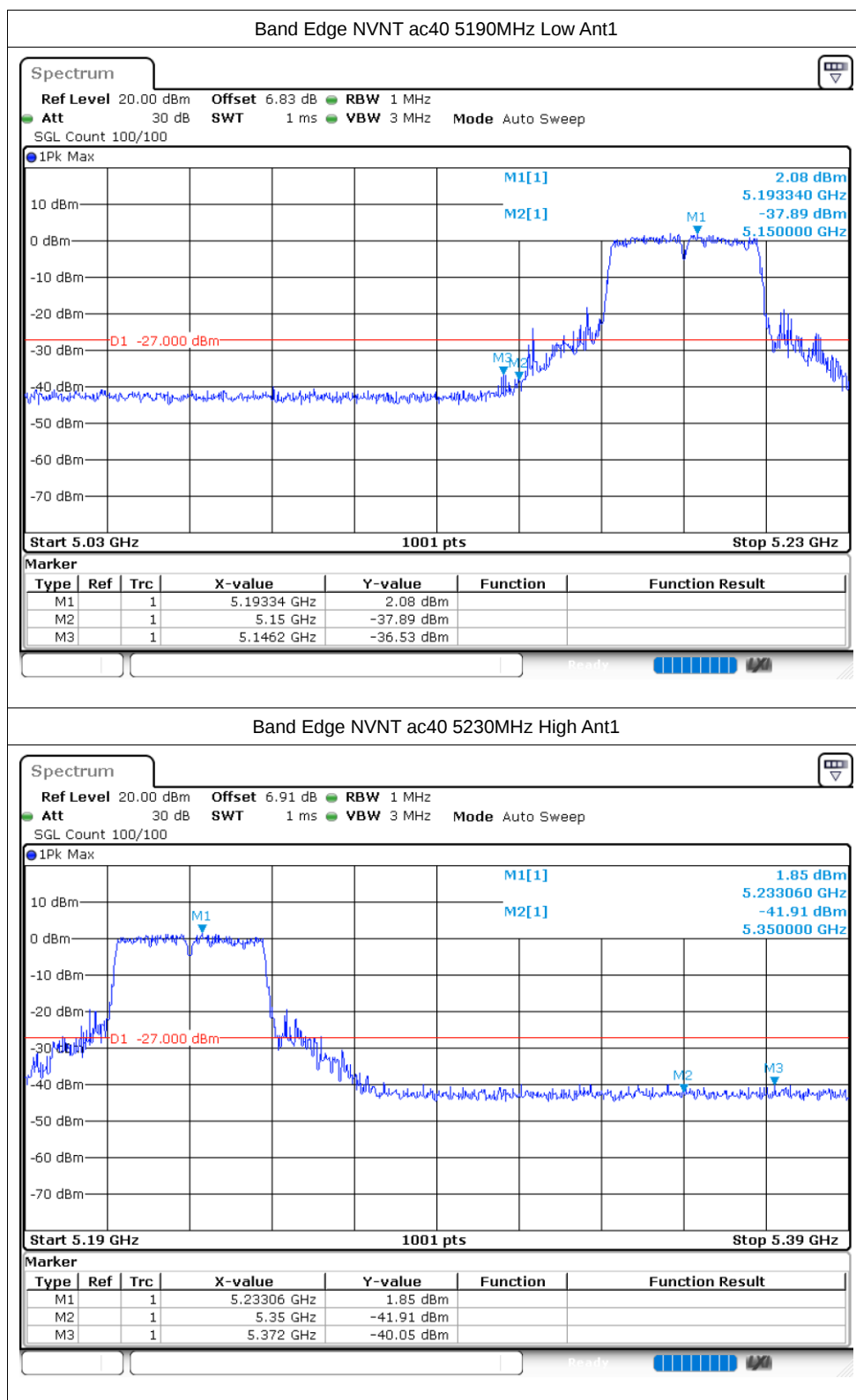


Band Edge NVNT ac20 5180MHz Low Ant1

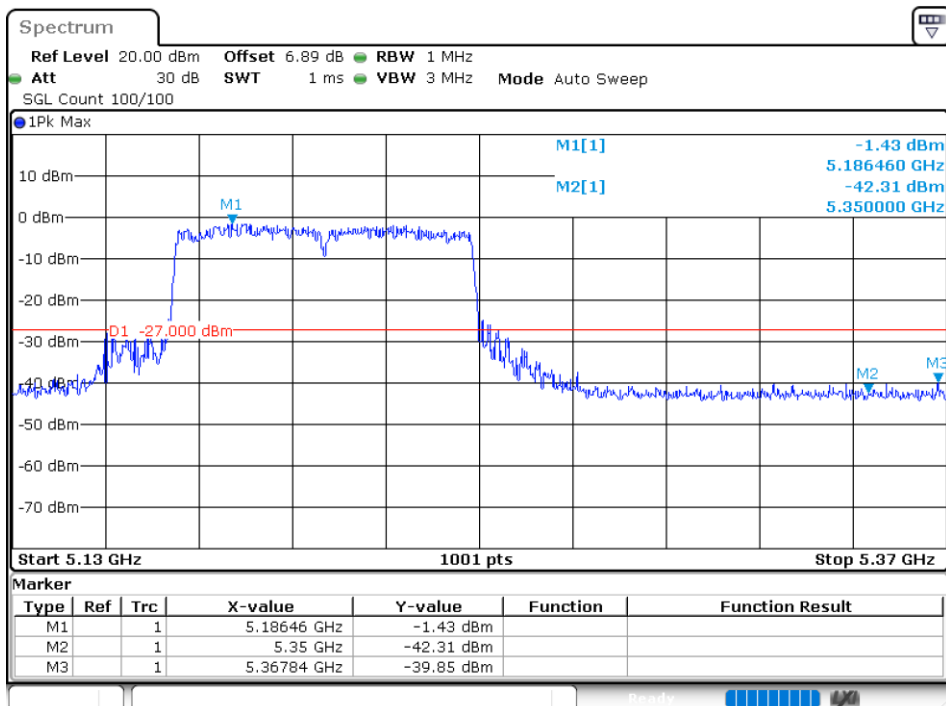


Band Edge NVNT ac20 5240MHz High Ant1

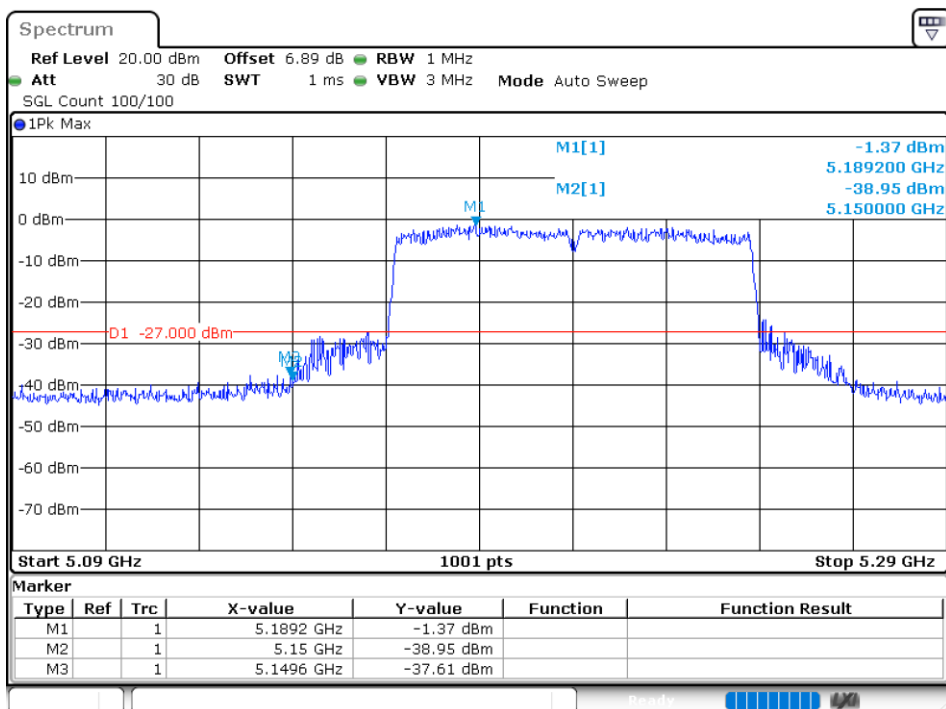




Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

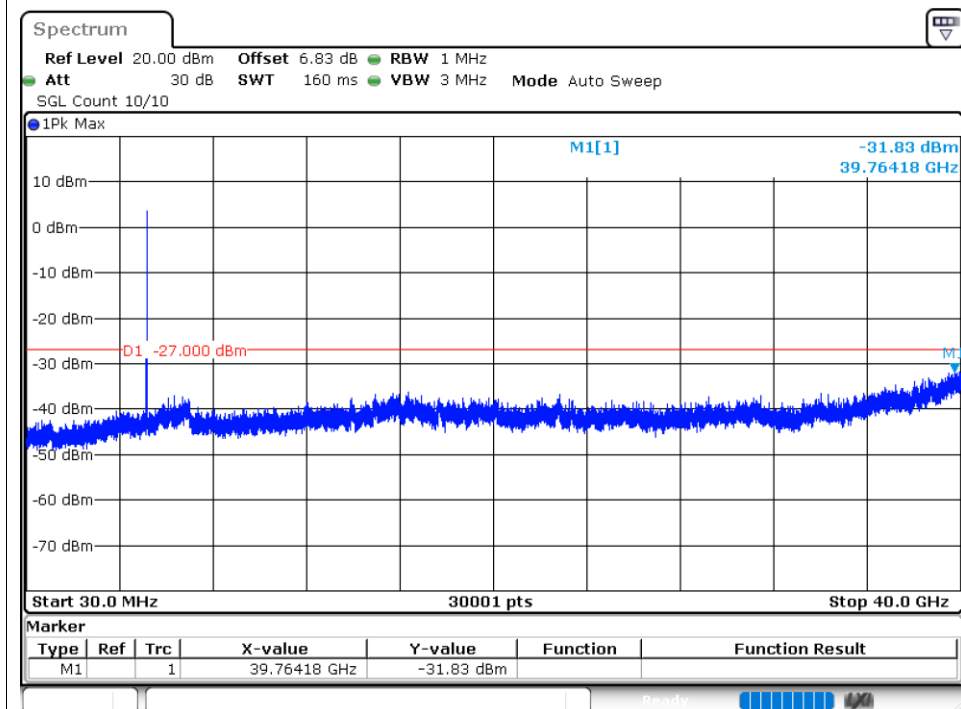


Conducted RF Spurious Emission

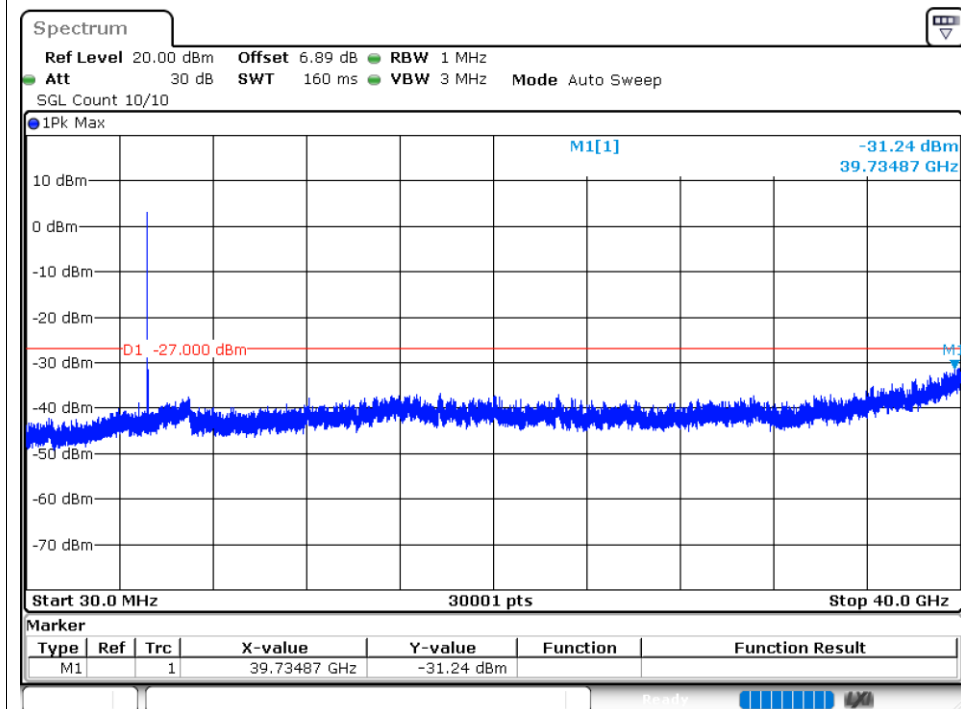
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-31.82	-27	Pass
NVNT	a	5200	Ant1	-31.24	-27	Pass
NVNT	a	5240	Ant1	-31.08	-27	Pass
NVNT	n20	5180	Ant1	-30.7	-27	Pass
NVNT	n20	5200	Ant1	-30.88	-27	Pass
NVNT	n20	5240	Ant1	-31.83	-27	Pass
NVNT	n40	5190	Ant1	-30.66	-27	Pass
NVNT	n40	5230	Ant1	-30.46	-27	Pass
NVNT	ac20	5180	Ant1	-31.81	-27	Pass
NVNT	ac20	5200	Ant1	-30.95	-27	Pass
NVNT	ac20	5240	Ant1	-31.53	-27	Pass
NVNT	ac40	5190	Ant1	-31.19	-27	Pass
NVNT	ac40	5230	Ant1	-30.6	-27	Pass
NVNT	ac80	5210	Ant1	-30.64	-27	Pass

Test Graphs

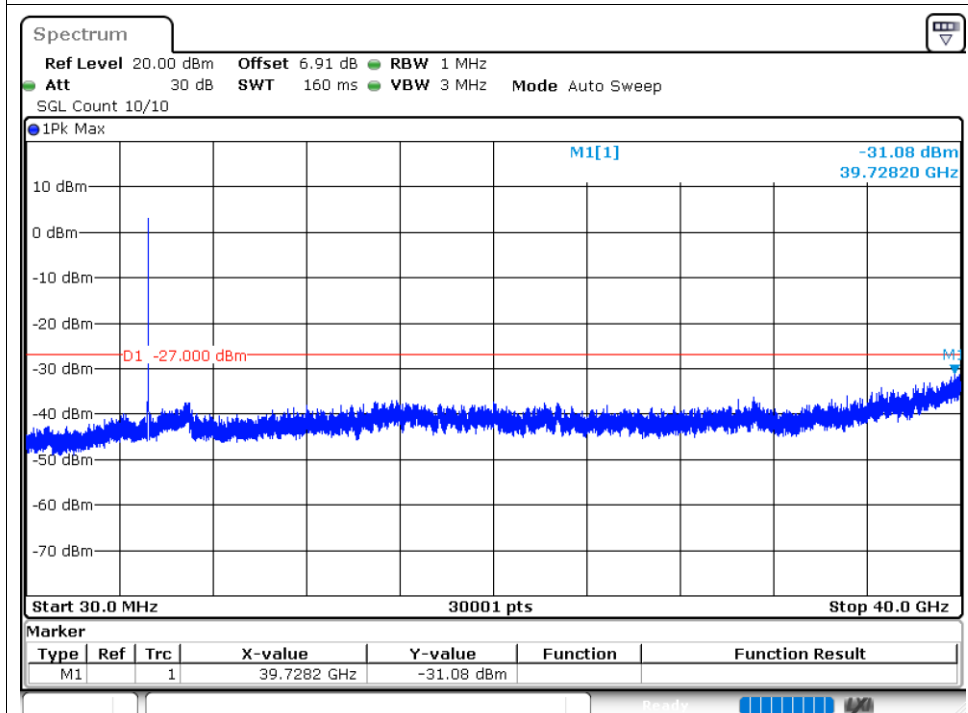
Tx. Spurious NVNT a 5180MHz Ant1 Emission



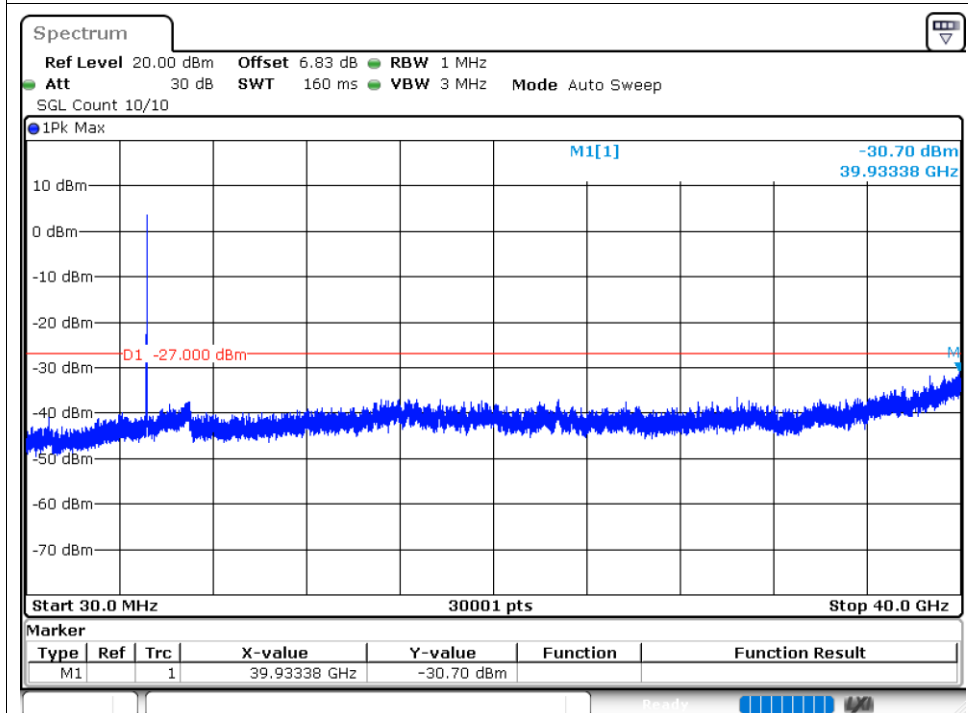
Tx. Spurious NVNT a 5200MHz Ant1 Emission

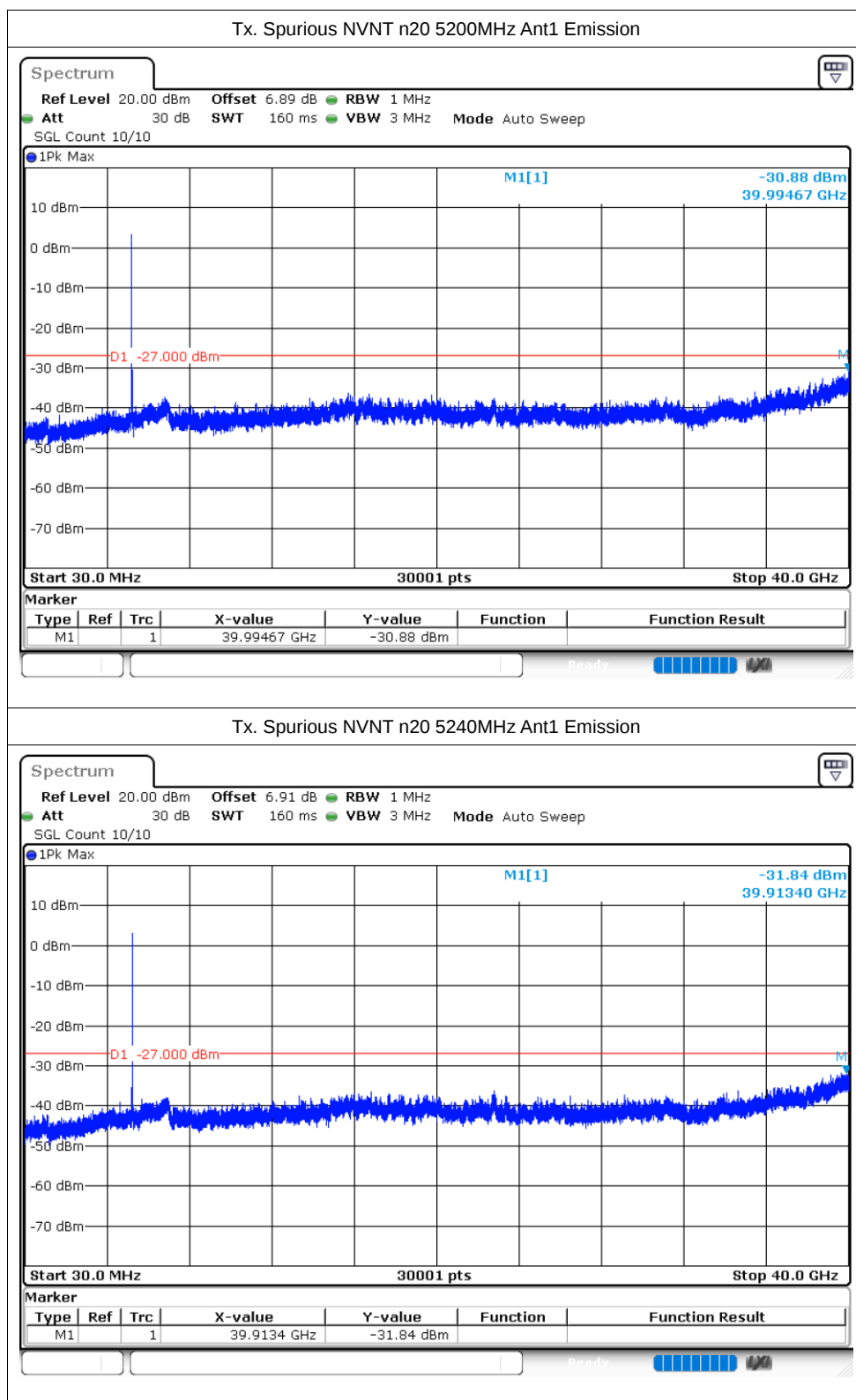


Tx. Spurious NVNT a 5240MHz Ant1 Emission

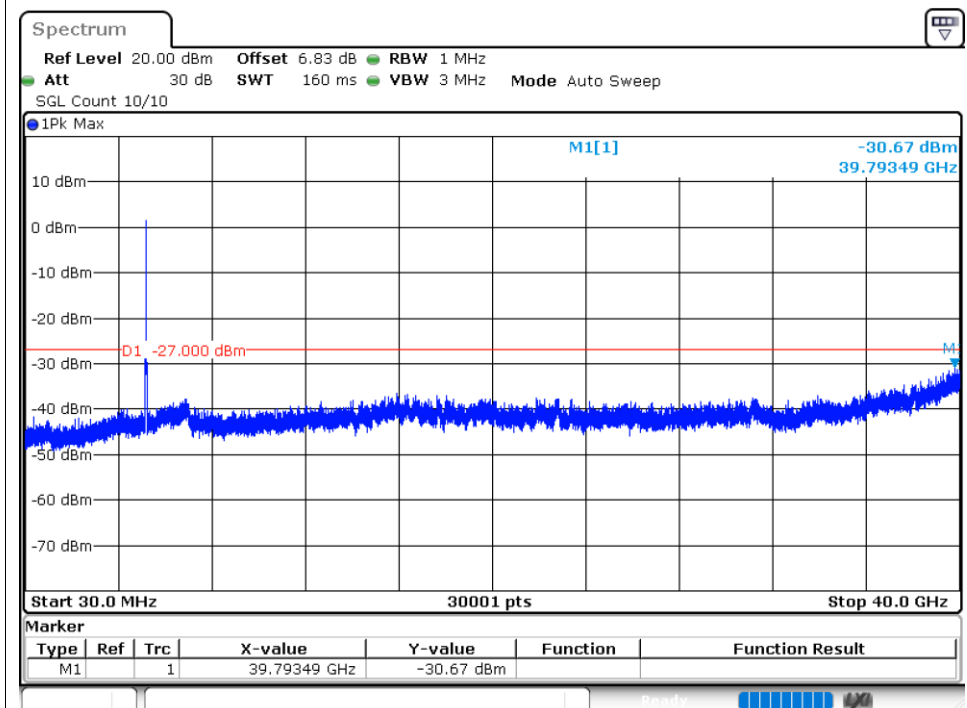


Tx. Spurious NVNT n20 5180MHz Ant1 Emission





Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission

