

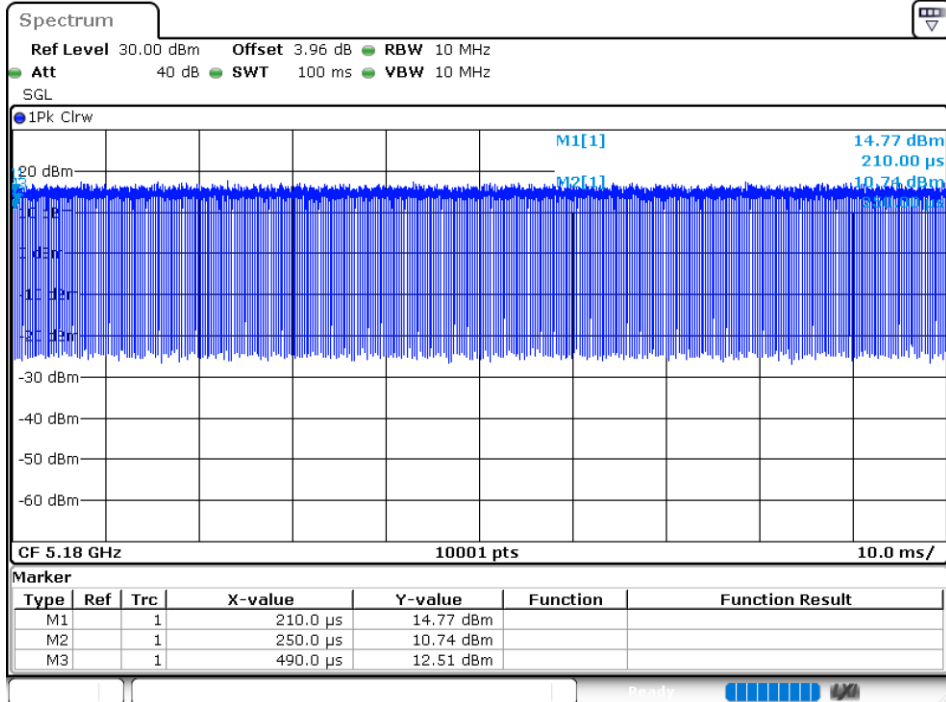
WIFI 5.2G:

Duty Cycle

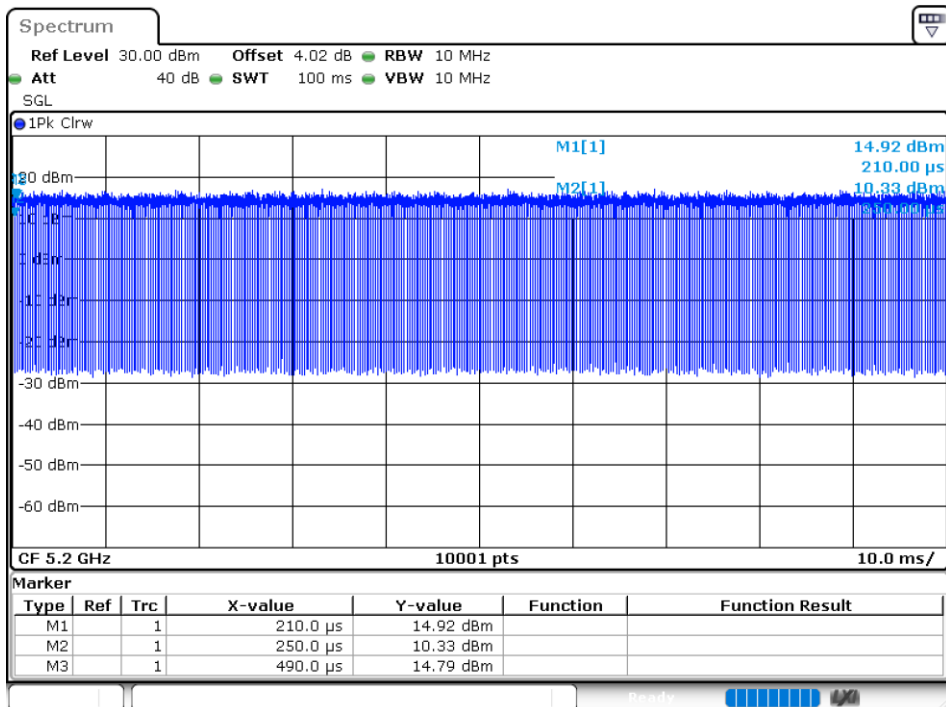
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	89.29	0.49	4.17
NVNT	a	5200	Ant1	89.29	0.49	4.17
NVNT	a	5240	Ant1	89.29	0.49	4.17
NVNT	n20	5180	Ant1	98.64	0.06	0.53
NVNT	n20	5200	Ant1	98.7	0.06	0.53
NVNT	n20	5240	Ant1	98.44	0.07	0.53
NVNT	n40	5190	Ant1	97.27	0.12	1.08
NVNT	n40	5230	Ant1	97.27	0.12	1.08
NVNT	ac20	5180	Ant1	98.63	0.06	0.53
NVNT	ac20	5200	Ant1	98.6	0.06	0.53
NVNT	ac20	5240	Ant1	98.6	0.06	0.53
NVNT	ac40	5190	Ant1	97.31	0.12	1.08
NVNT	ac40	5230	Ant1	97.33	0.12	1.06
NVNT	ac80	5210	Ant1	94.6	0.24	2.17

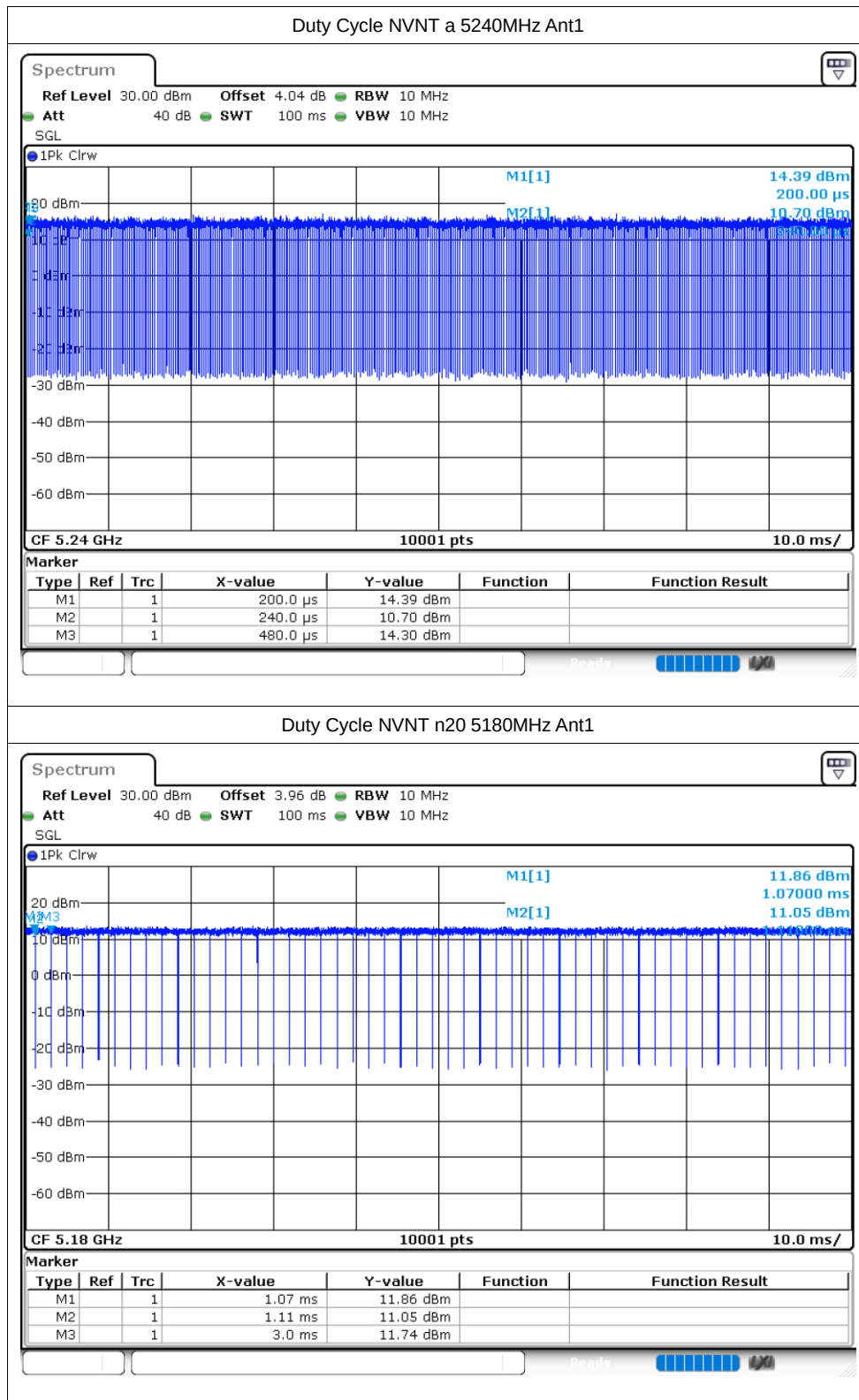
Test Graphs

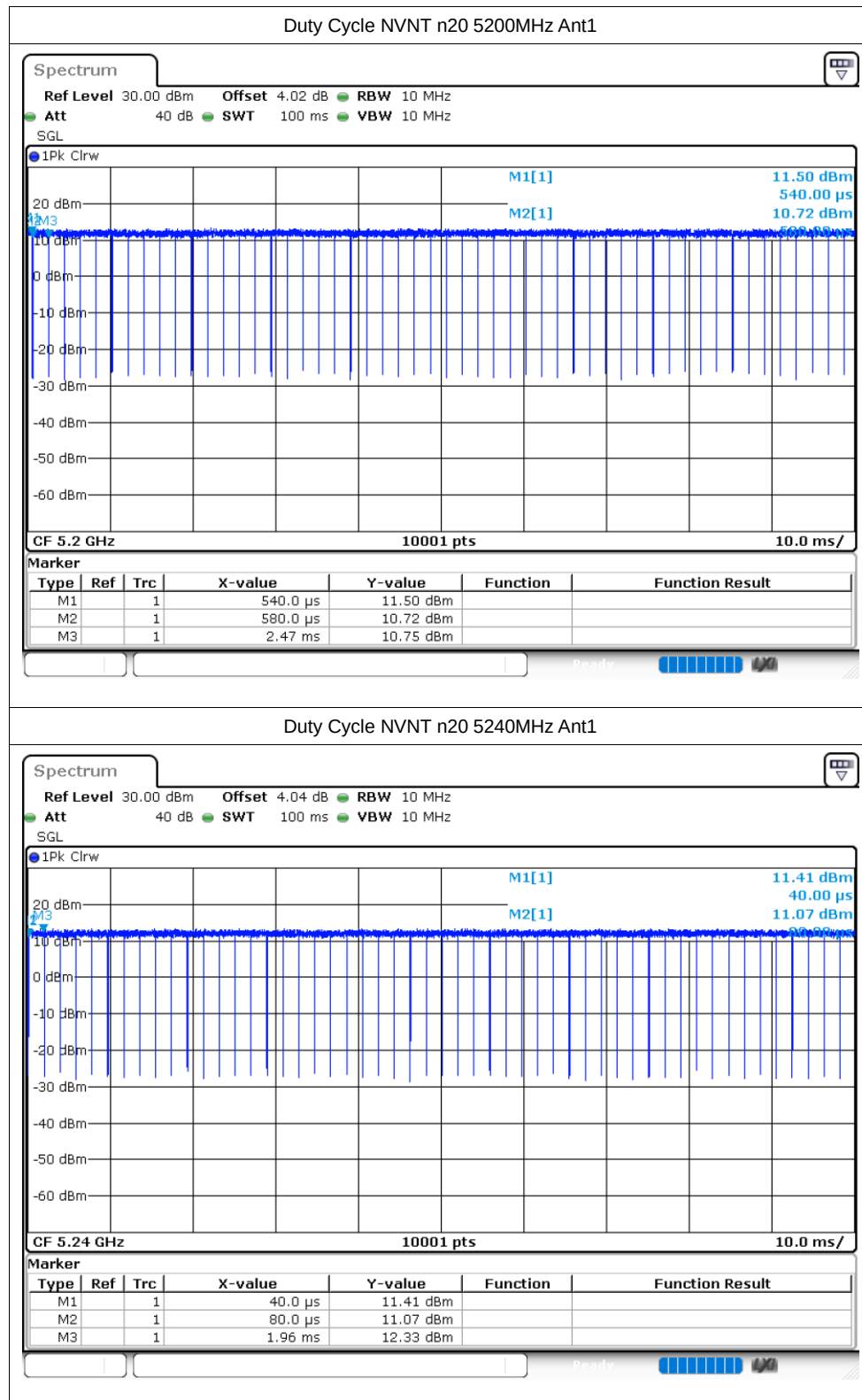
Duty Cycle NVNT a 5180MHz Ant1

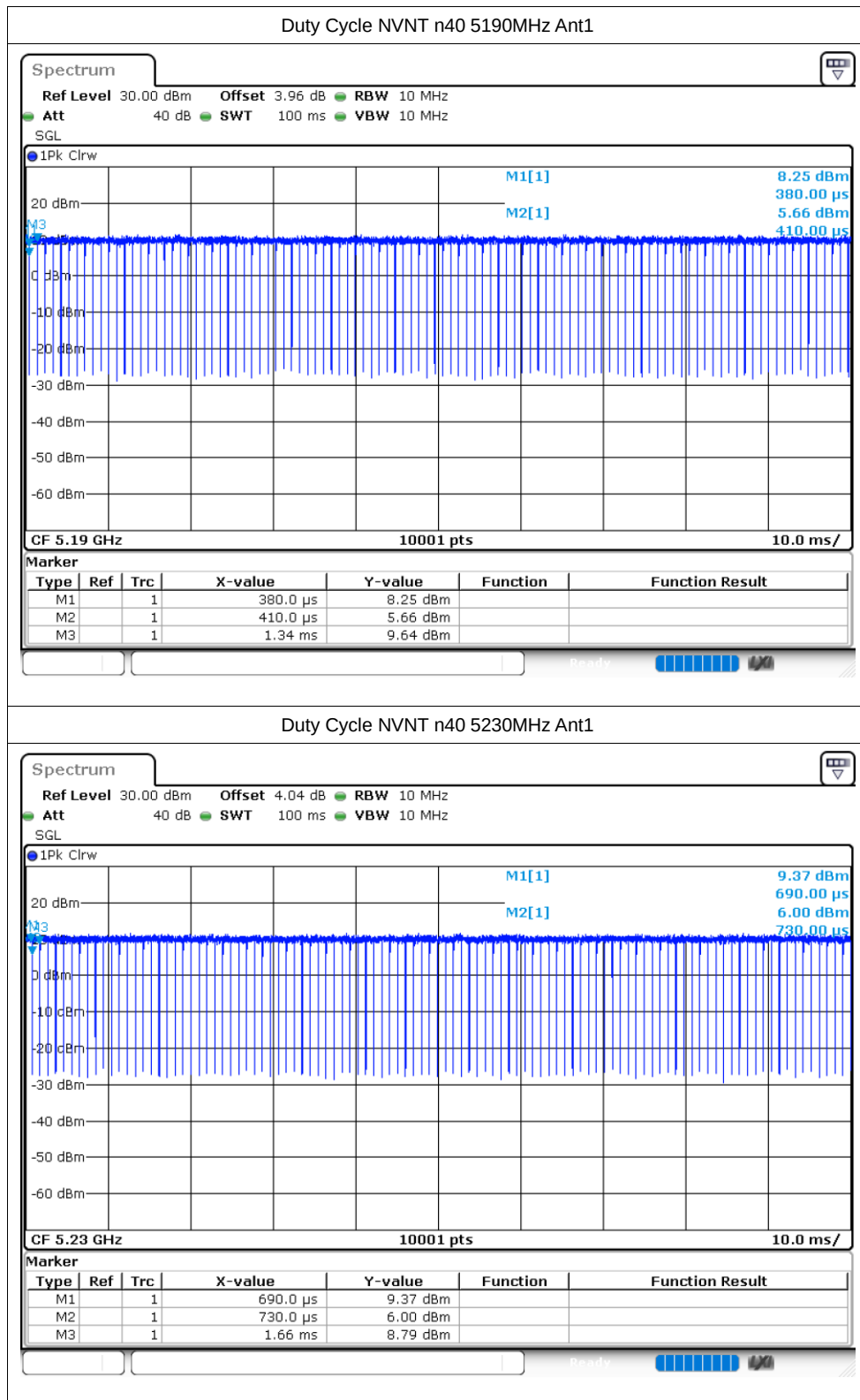


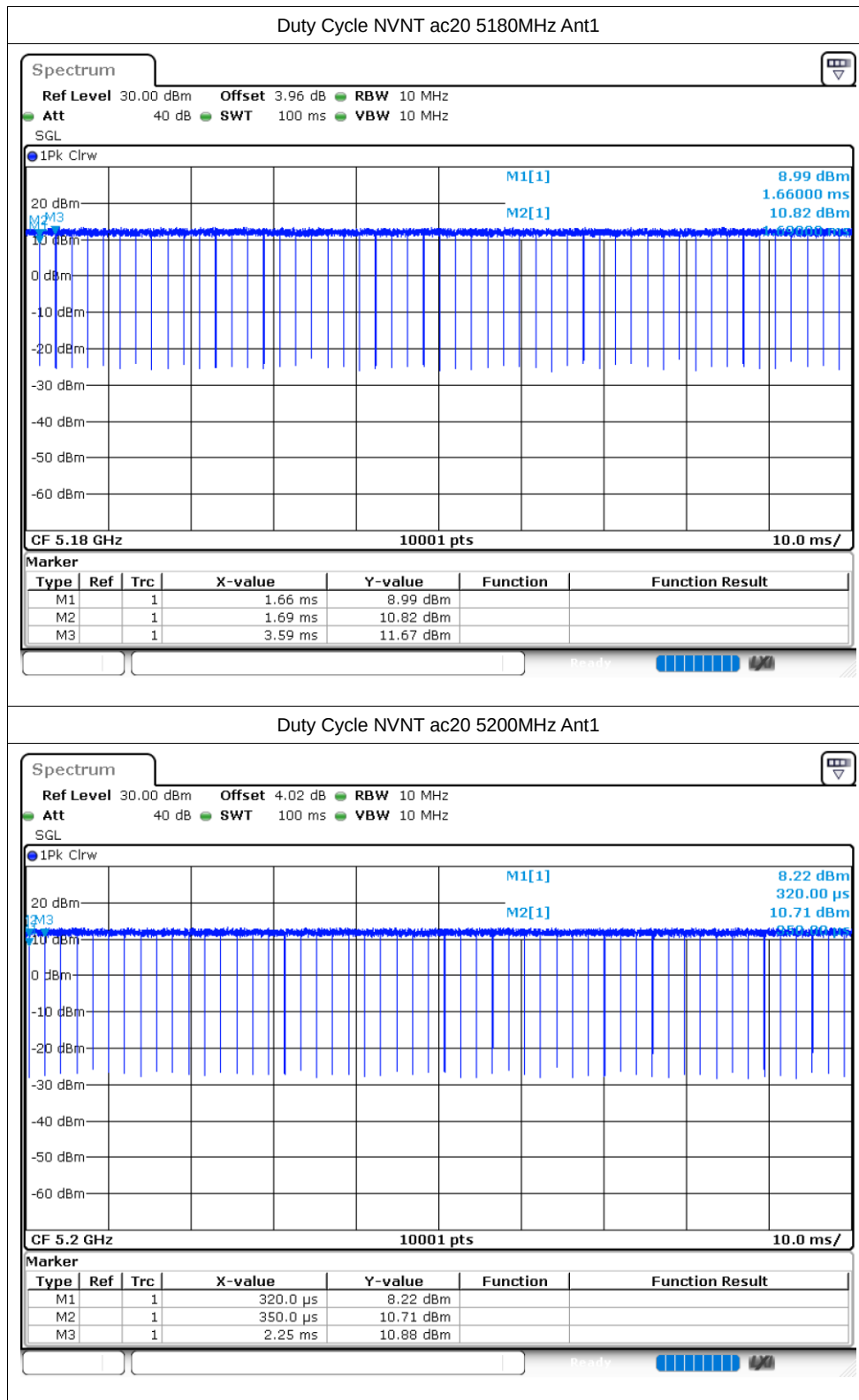
Duty Cycle NVNT a 5200MHz Ant1

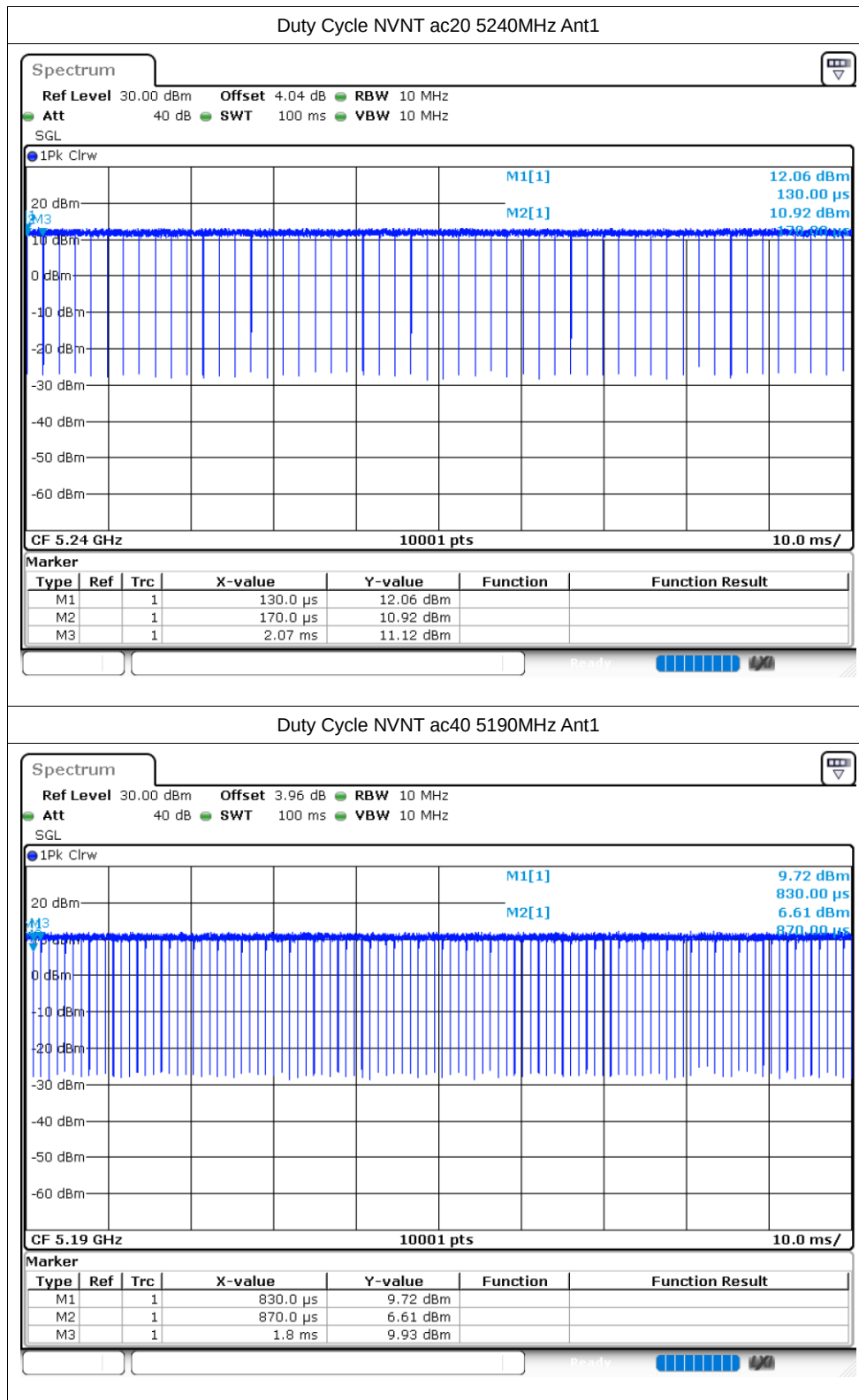


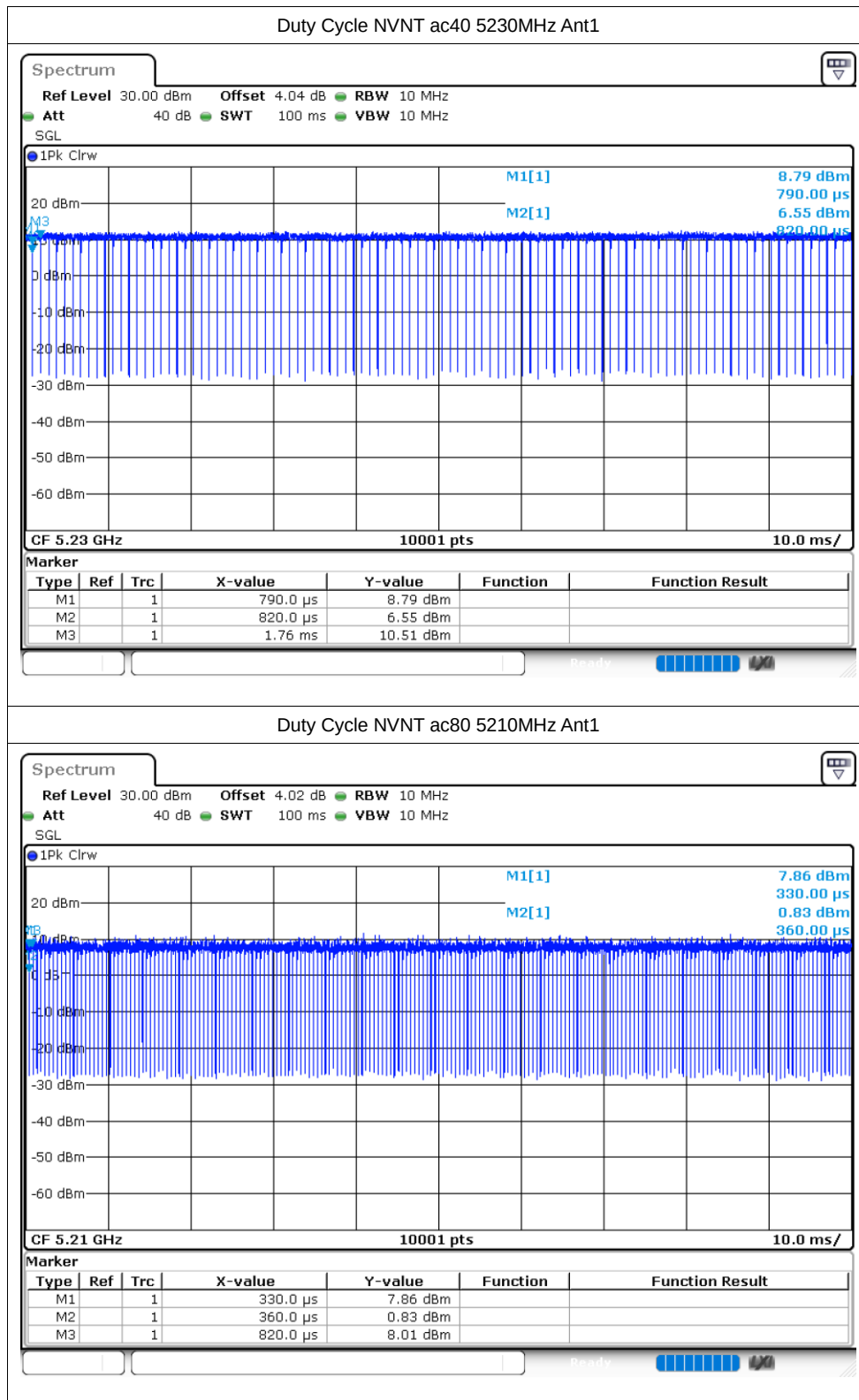












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	9.61	24	Pass
NVNT	a	5200	Ant1	9.97	24	Pass
NVNT	a	5240	Ant1	9.89	24	Pass
NVNT	n20	5180	Ant1	8.91	24	Pass
NVNT	n20	5200	Ant1	8.99	24	Pass
NVNT	n20	5240	Ant1	9.44	24	Pass
NVNT	n40	5190	Ant1	9.27	24	Pass
NVNT	n40	5230	Ant1	9.48	24	Pass
NVNT	ac20	5180	Ant1	9.07	24	Pass
NVNT	ac20	5200	Ant1	8.99	24	Pass
NVNT	ac20	5240	Ant1	9.36	24	Pass
NVNT	ac40	5190	Ant1	8.93	24	Pass
NVNT	ac40	5230	Ant1	9.24	24	Pass
NVNT	ac80	5210	Ant1	9.53	24	Pass

Note: This test has increased duty cycle Factor.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.693	0.5	Pass
NVNT	a	5200	Ant1	23.103	0.5	Pass
NVNT	a	5240	Ant1	22.845	0.5	Pass
NVNT	n20	5180	Ant1	23.358	0.5	Pass
NVNT	n20	5200	Ant1	23.091	0.5	Pass
NVNT	n20	5240	Ant1	23.928	0.5	Pass
NVNT	n40	5190	Ant1	41.226	0.5	Pass
NVNT	n40	5230	Ant1	42.036	0.5	Pass
NVNT	ac20	5180	Ant1	24.129	0.5	Pass
NVNT	ac20	5200	Ant1	23.763	0.5	Pass
NVNT	ac20	5240	Ant1	23.688	0.5	Pass
NVNT	ac40	5190	Ant1	41.85	0.5	Pass
NVNT	ac40	5230	Ant1	42.57	0.5	Pass
NVNT	ac80	5210	Ant1	91.044	0.5	Pass

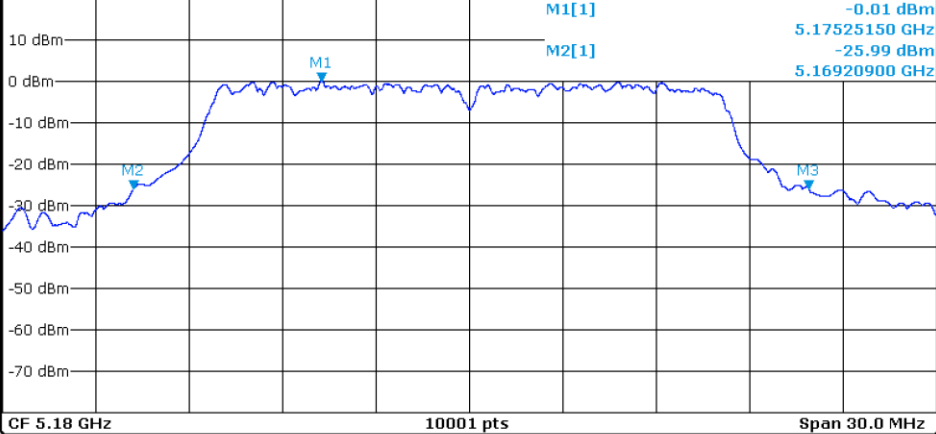
Test Graphs

-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

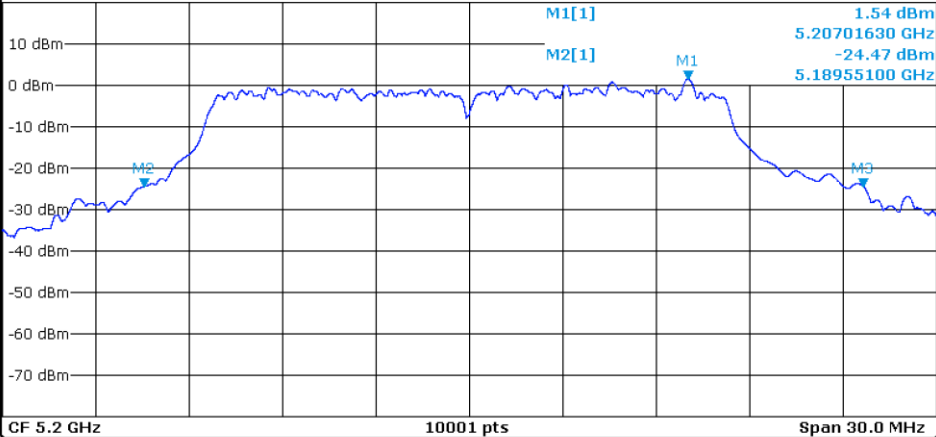


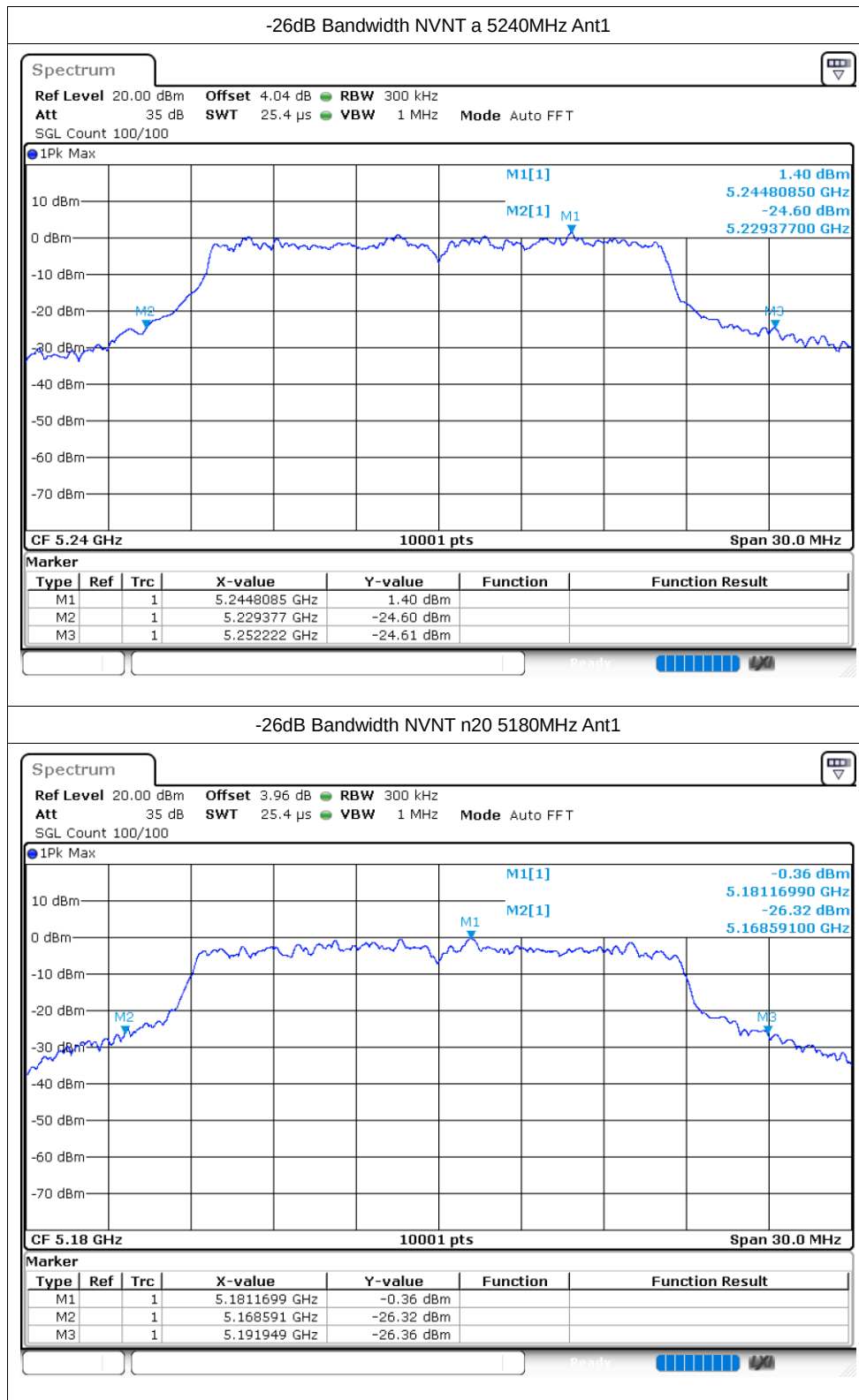
-26dB Bandwidth NVNT a 5200MHz Ant1

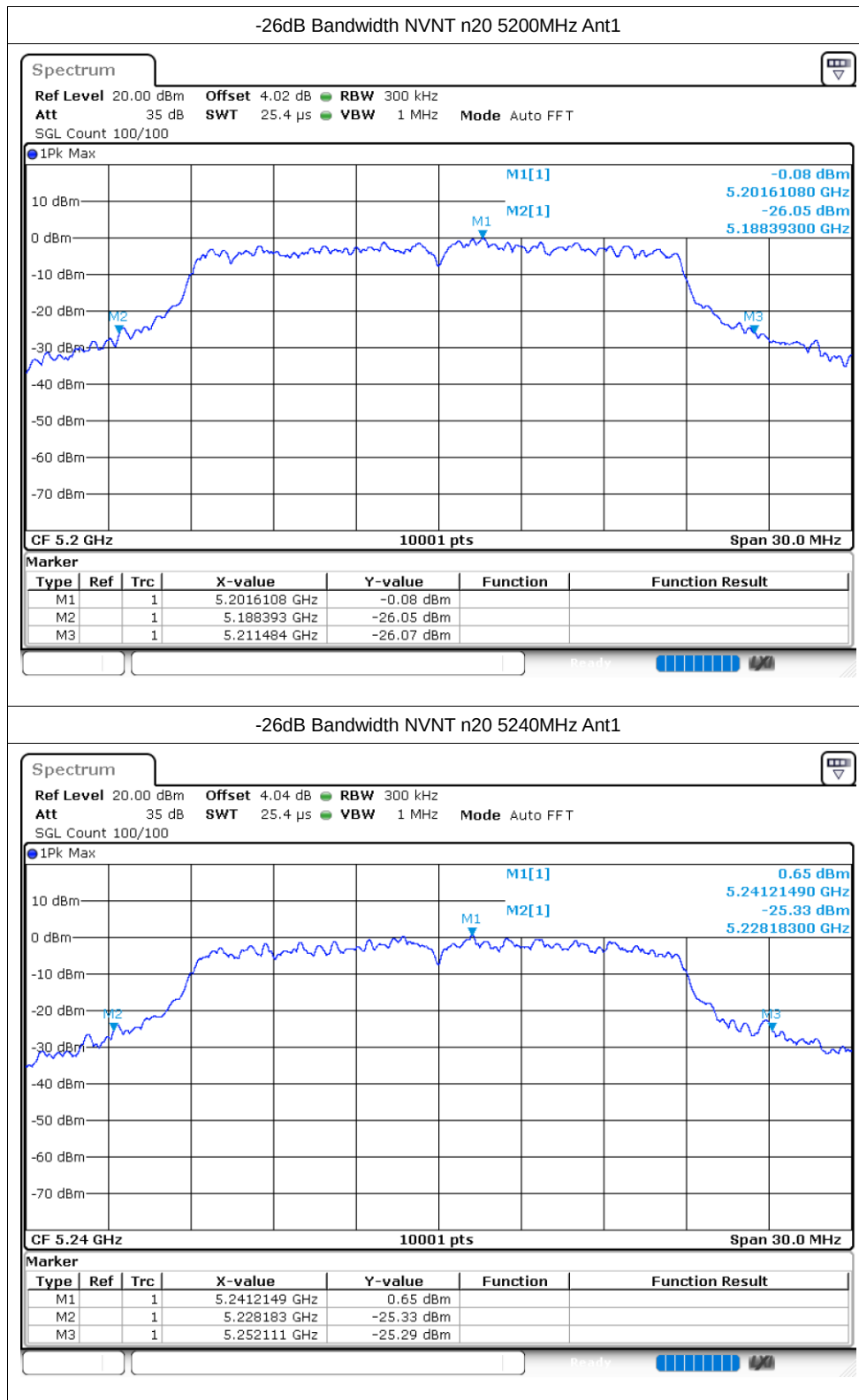
Spectrum

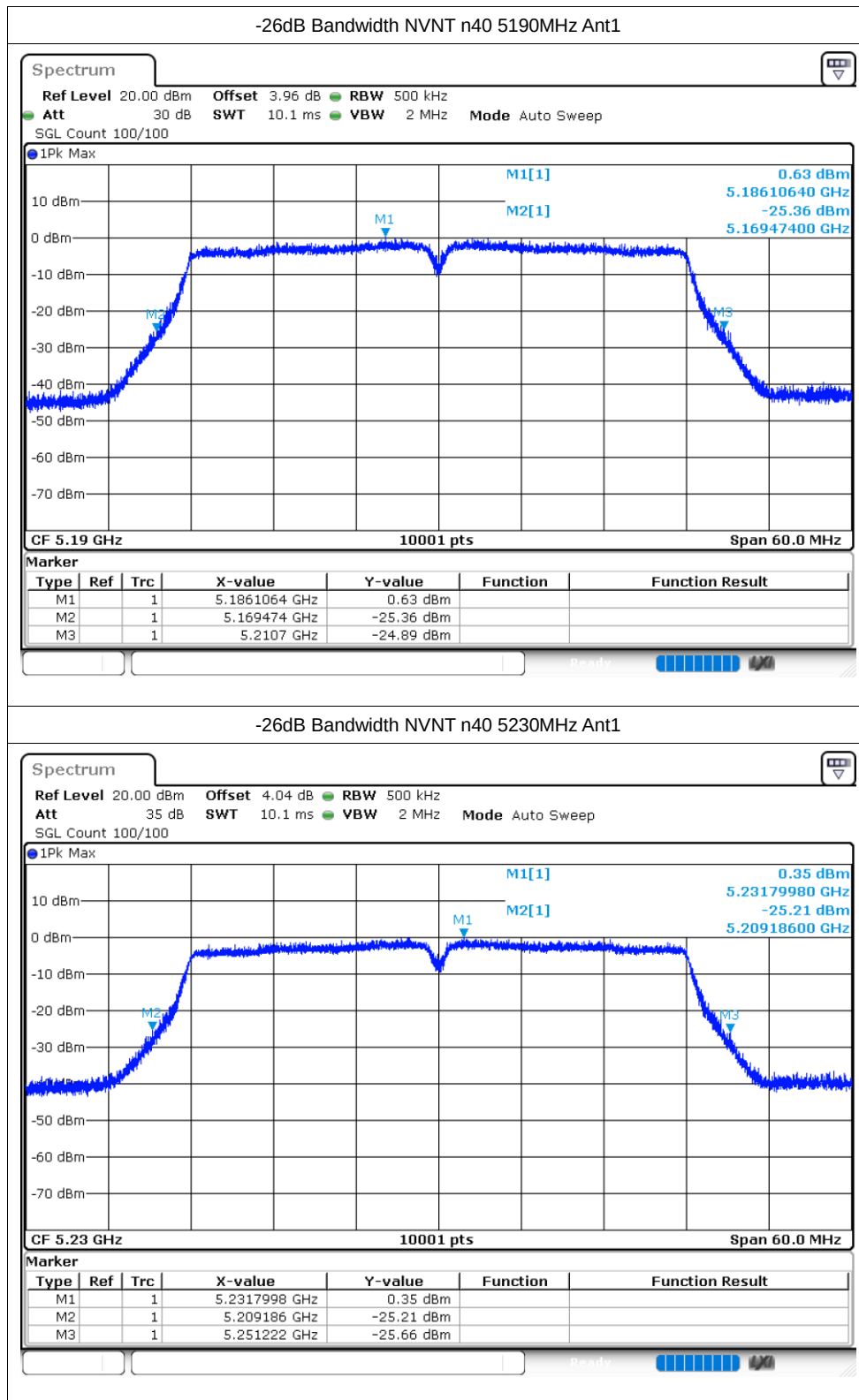
Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

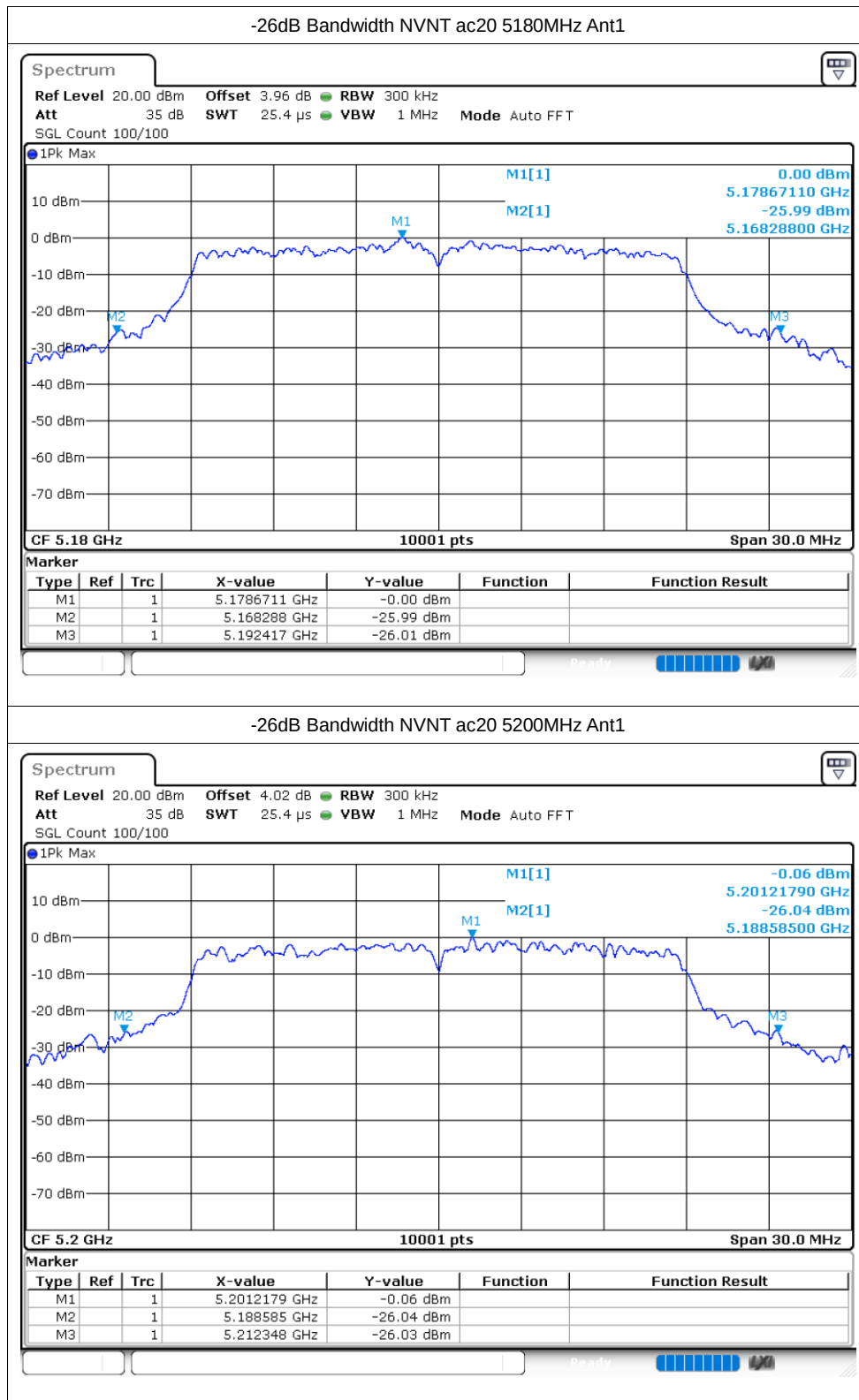
1Pk Max

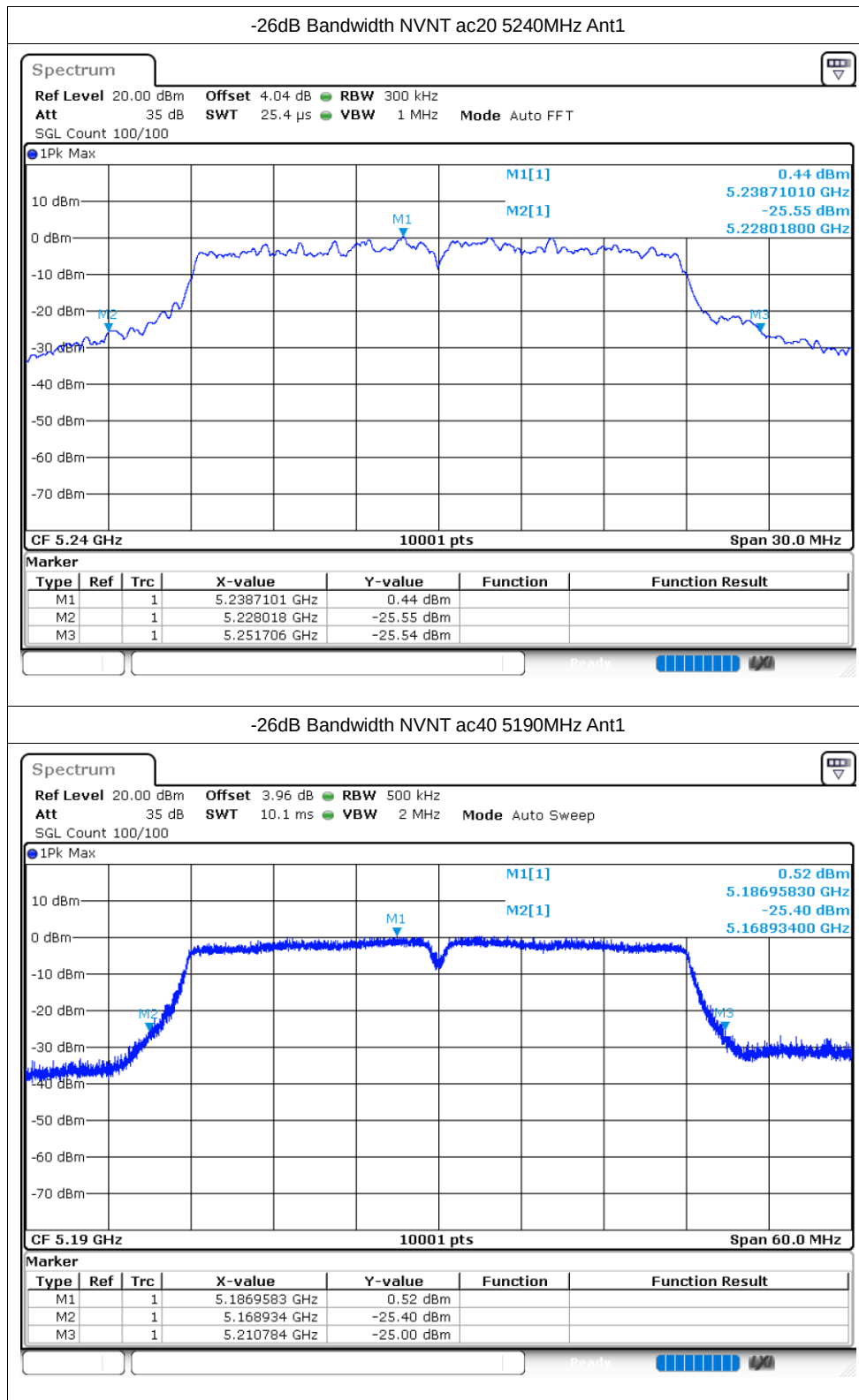


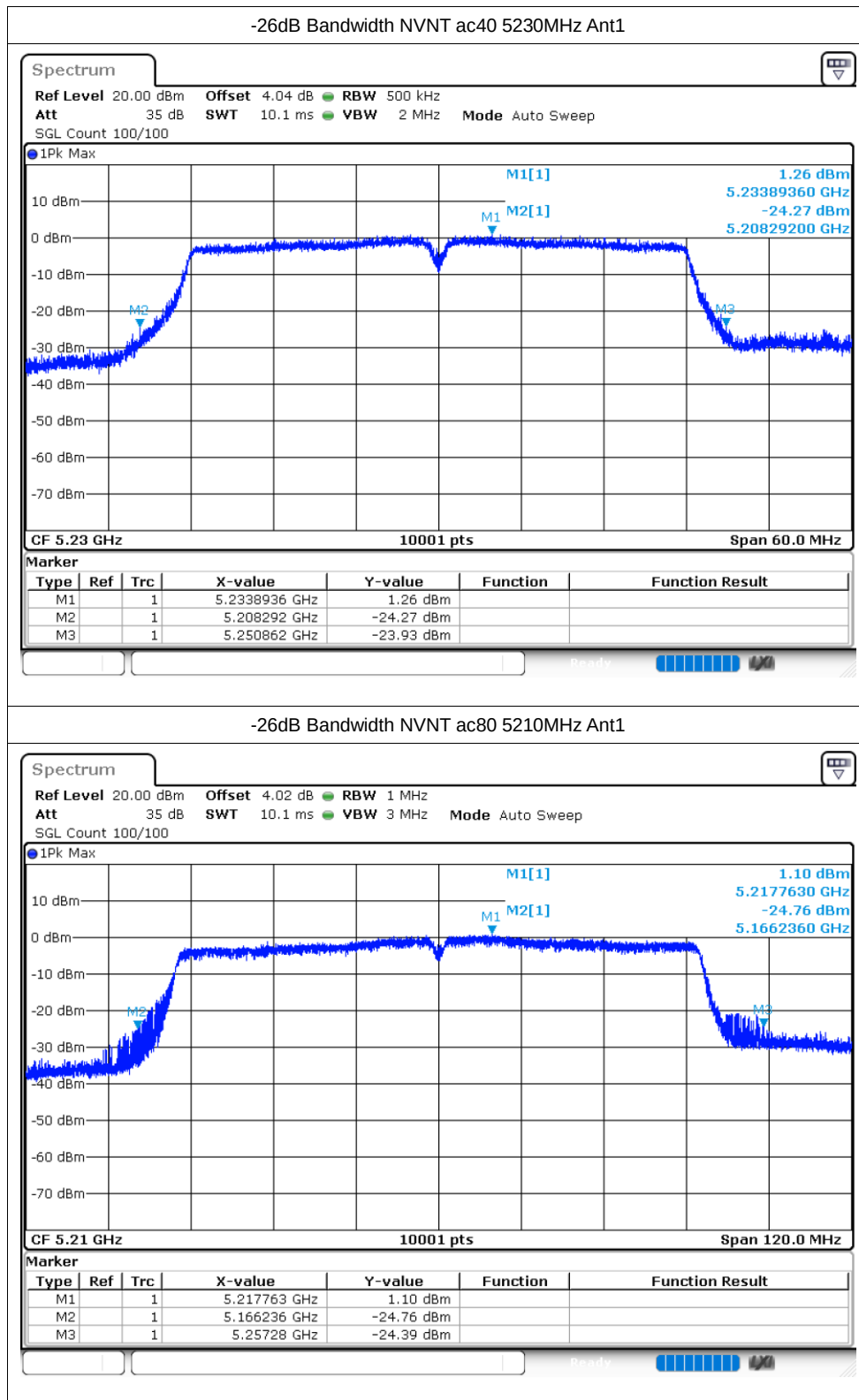










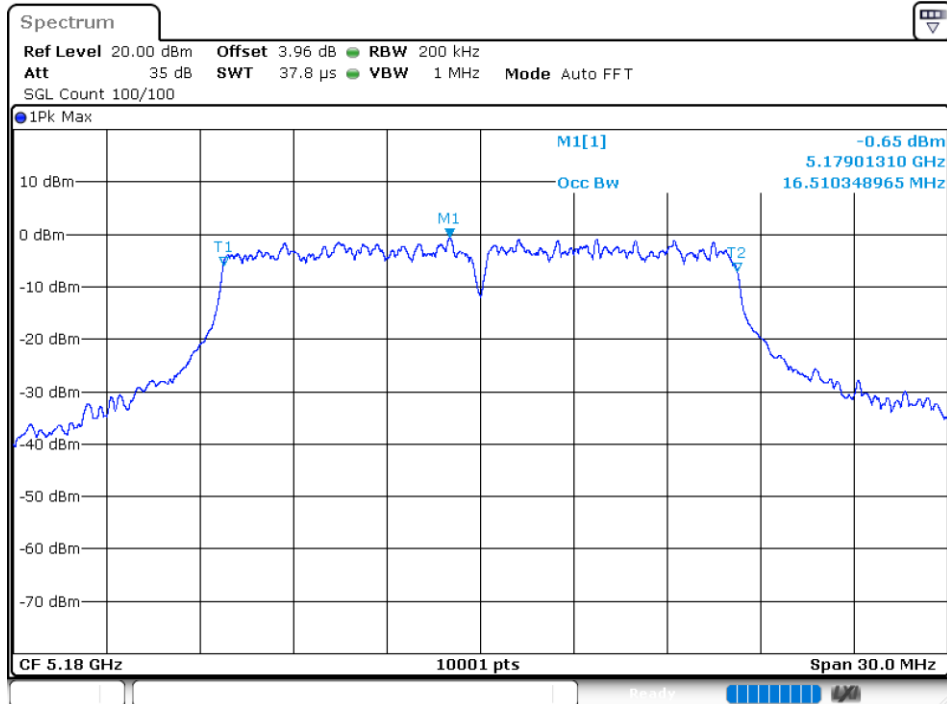


Occupied Channel Bandwidth

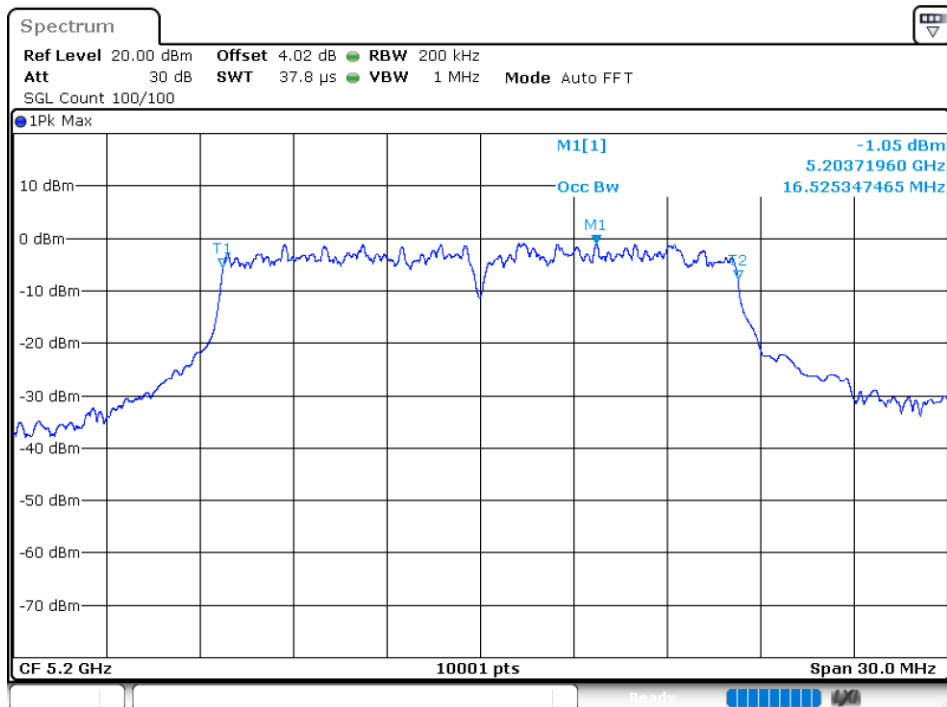
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.51
NVNT	a	5200	Ant1	16.525
NVNT	a	5240	Ant1	16.579
NVNT	n20	5180	Ant1	17.71
NVNT	n20	5200	Ant1	17.701
NVNT	n20	5240	Ant1	17.734
NVNT	n40	5190	Ant1	36.254
NVNT	n40	5230	Ant1	36.224
NVNT	ac20	5180	Ant1	17.74
NVNT	ac20	5200	Ant1	17.842
NVNT	ac20	5240	Ant1	17.752
NVNT	ac40	5190	Ant1	36.278
NVNT	ac40	5230	Ant1	36.296
NVNT	ac80	5210	Ant1	75.58

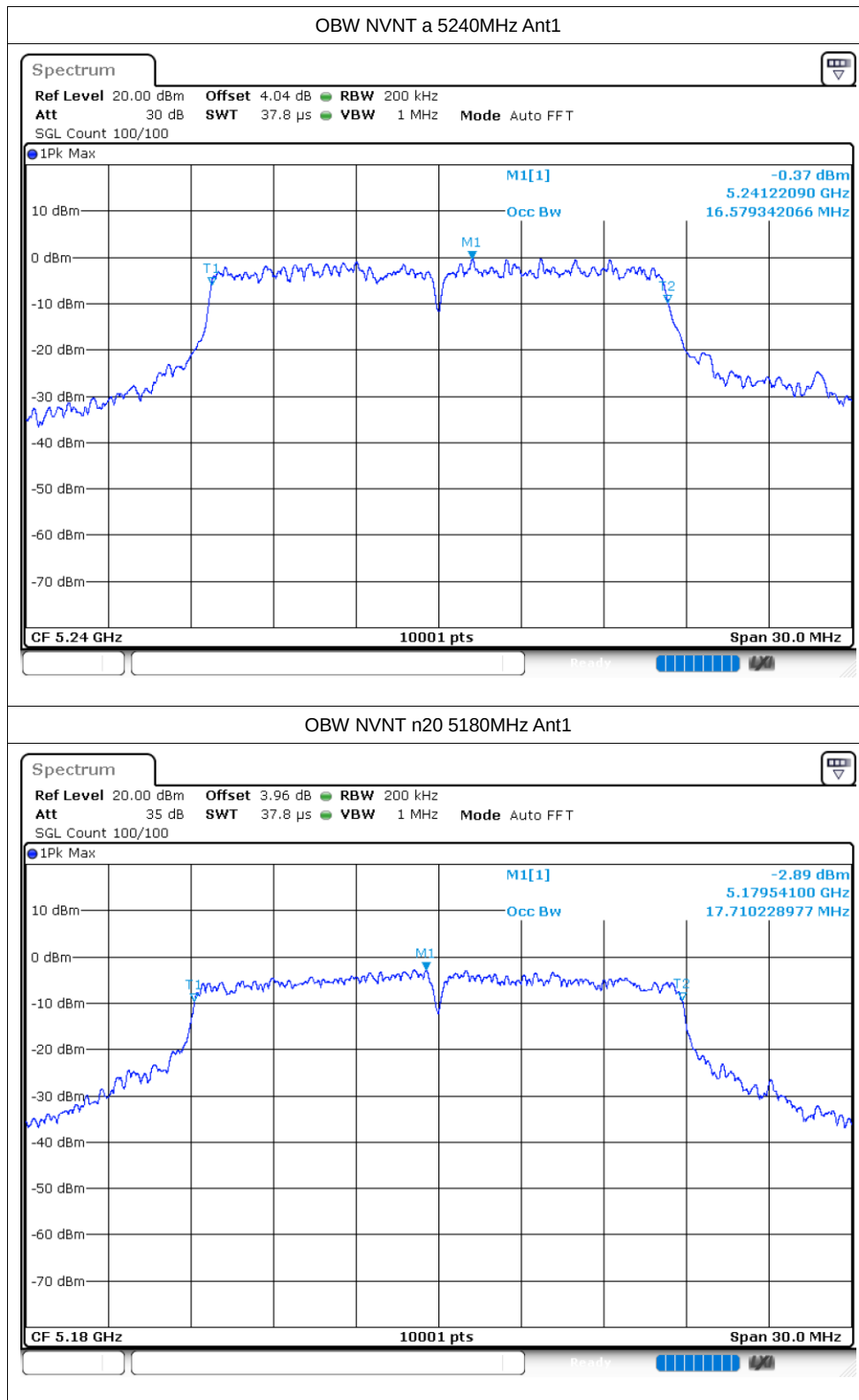
Test Graphs

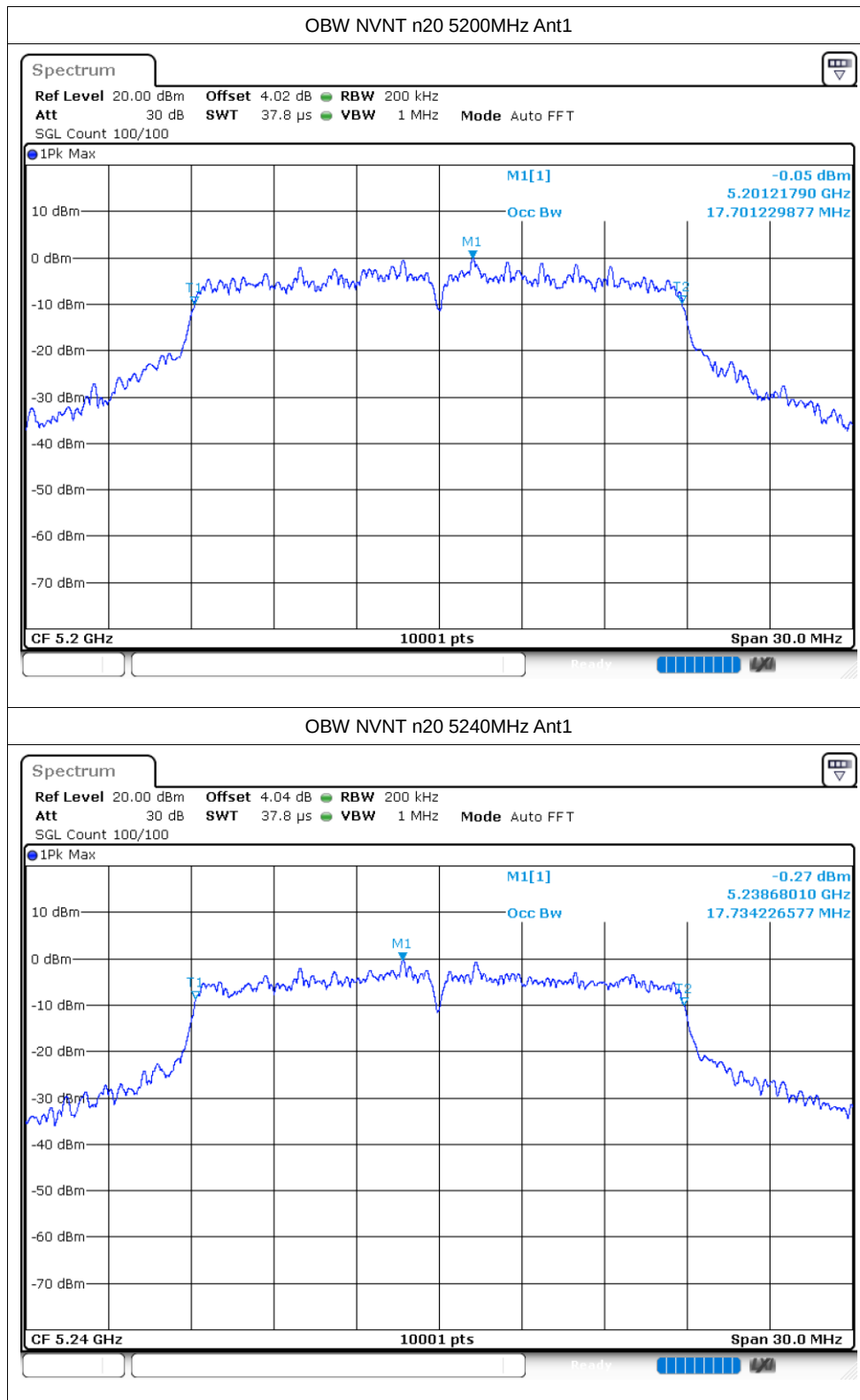
OBW NVNT a 5180MHz Ant1

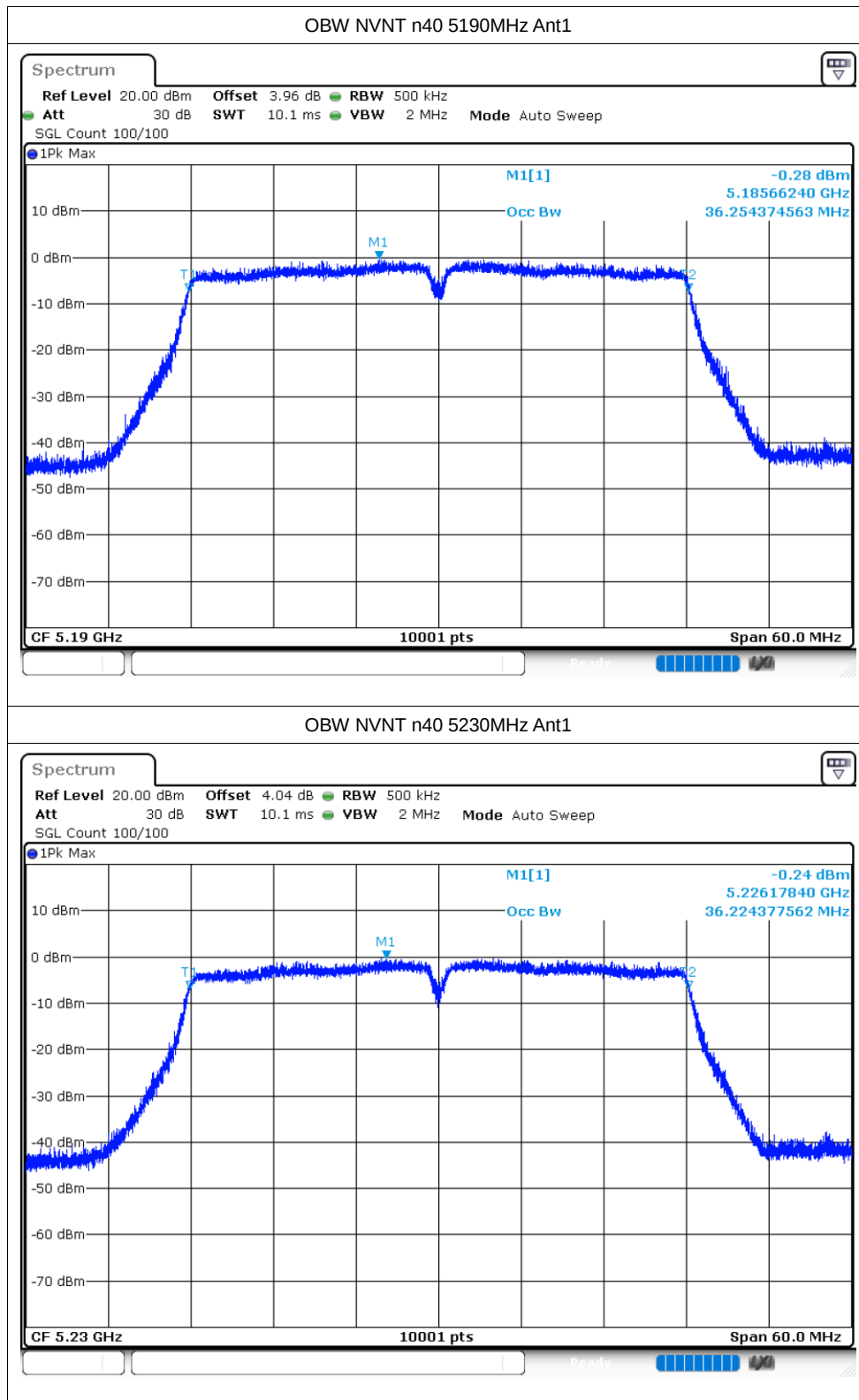


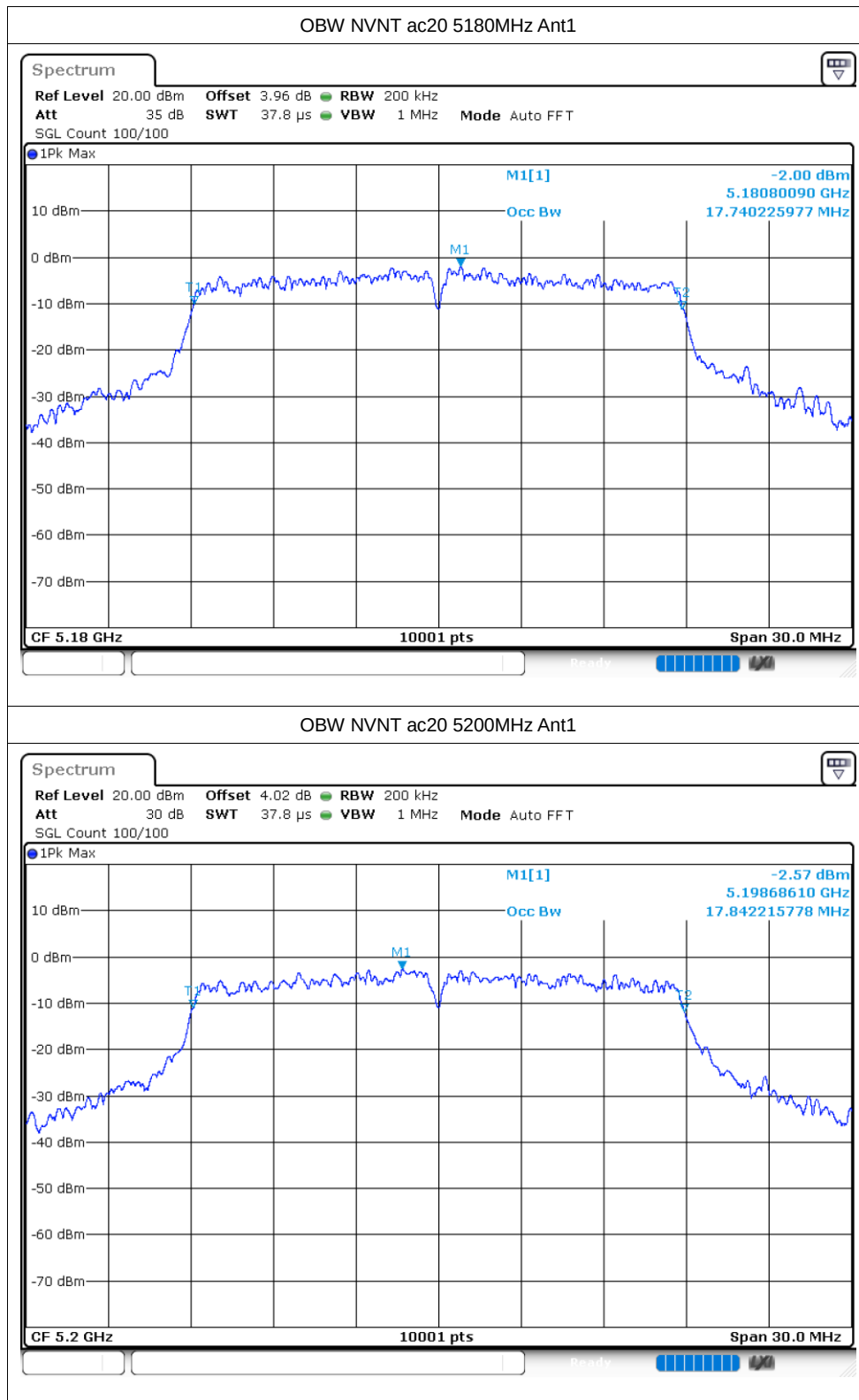
OBW NVNT a 5200MHz Ant1

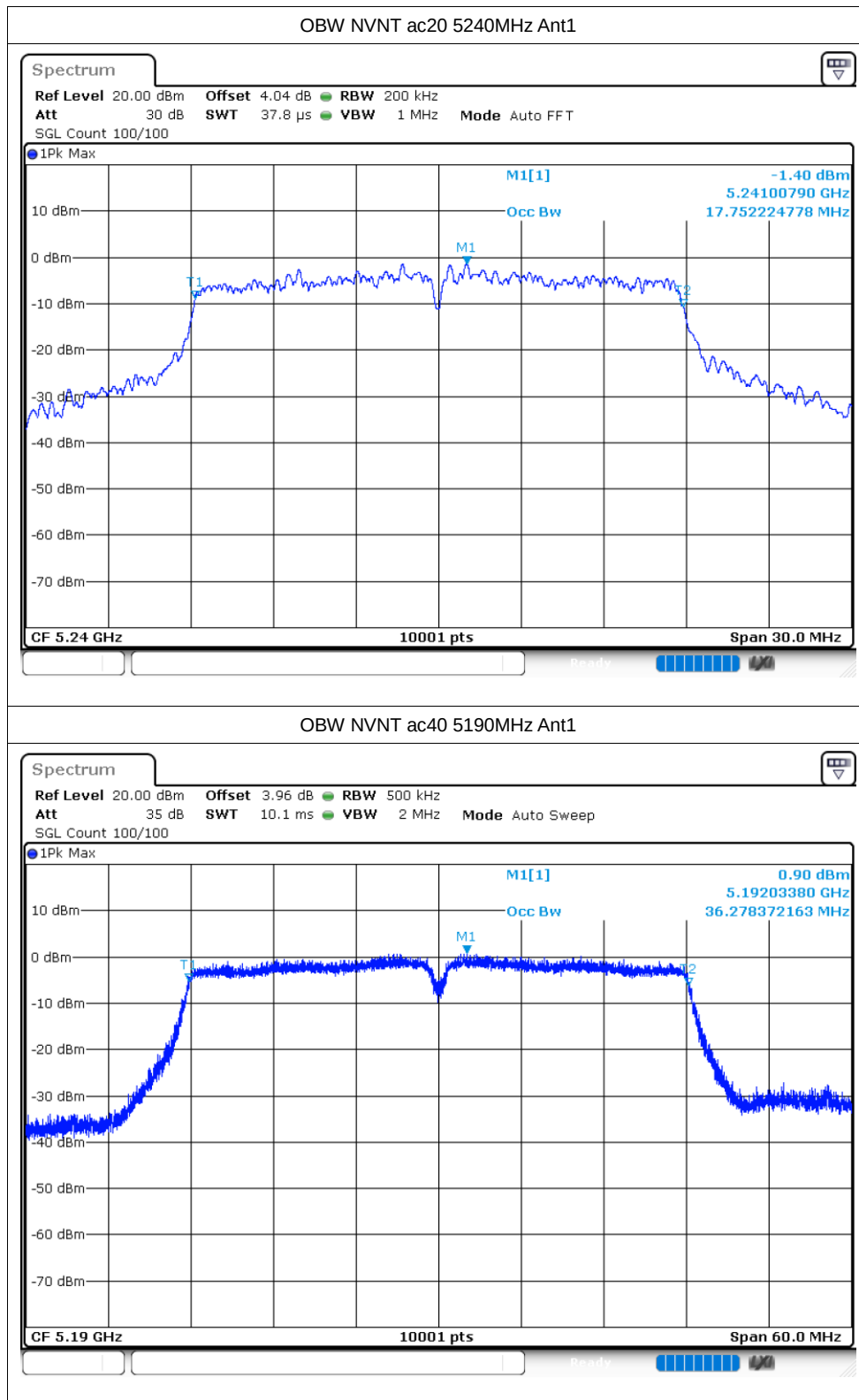


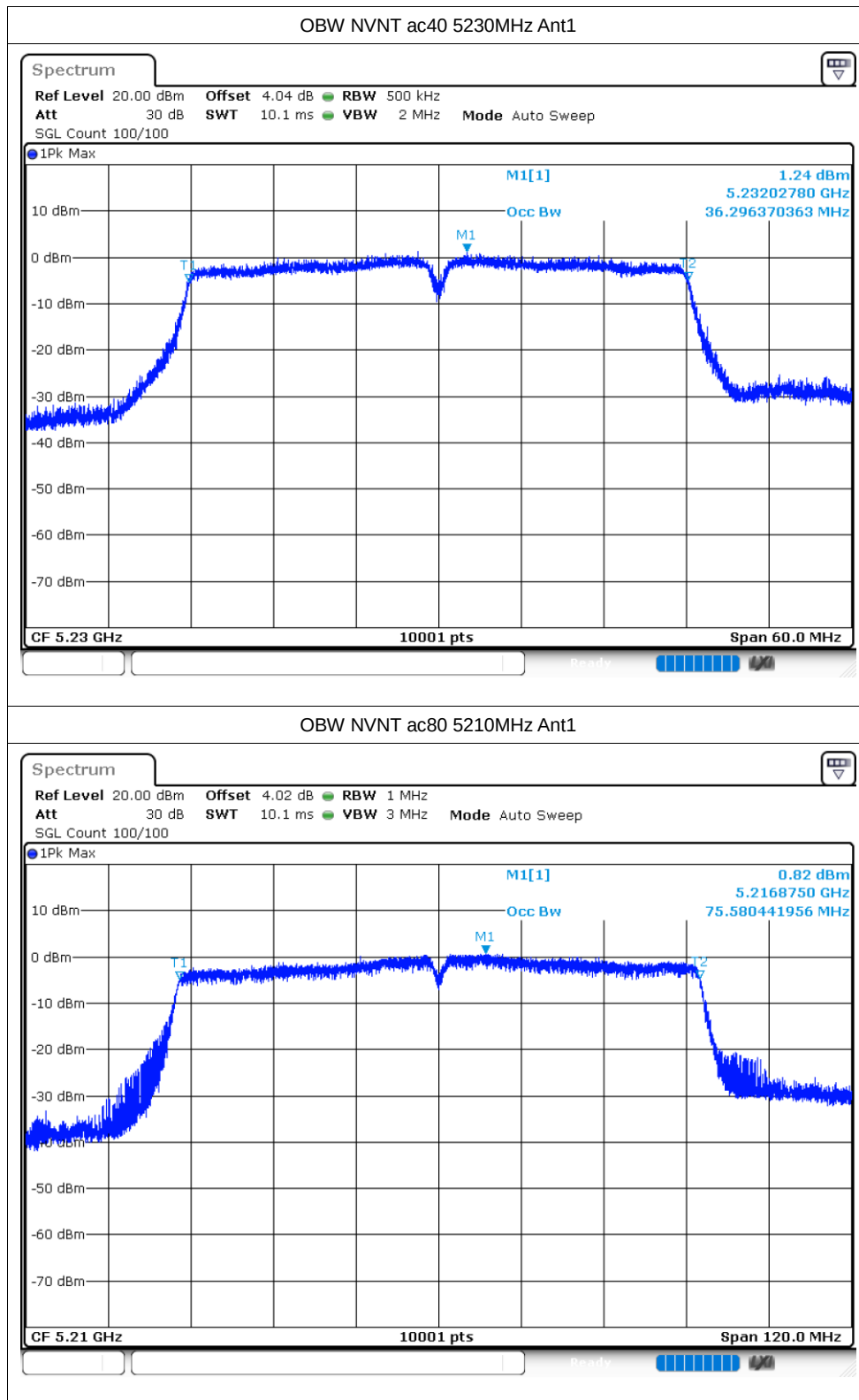










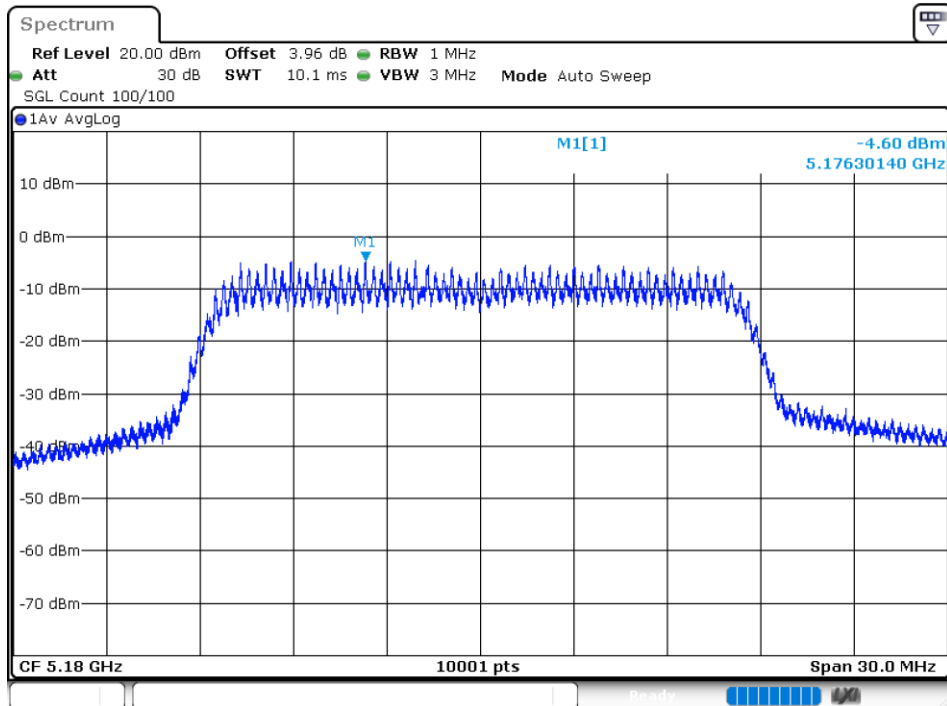


Maximum Power Spectral Density Level

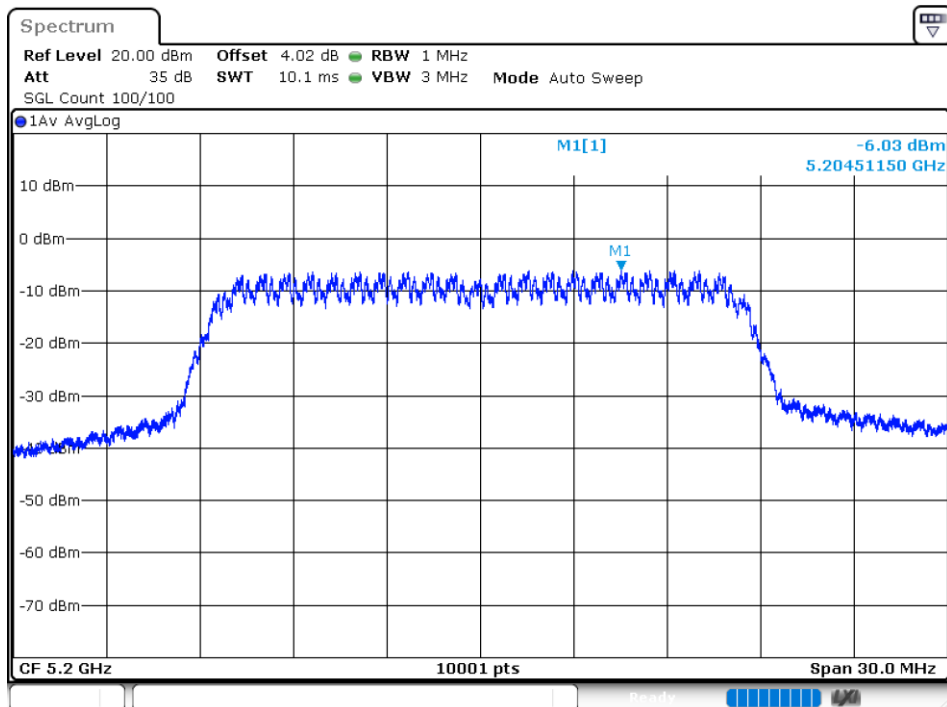
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.6	0.49	-4.11	11	Pass
NVNT	a	5200	Ant1	-6.03	0.49	-5.54	11	Pass
NVNT	a	5240	Ant1	-5.23	0.49	-4.74	11	Pass
NVNT	n20	5180	Ant1	-3.1	0.06	-3.04	11	Pass
NVNT	n20	5200	Ant1	-3.27	0.06	-3.21	11	Pass
NVNT	n20	5240	Ant1	-3.1	0.07	-3.03	11	Pass
NVNT	n40	5190	Ant1	-6.07	0.12	-5.95	11	Pass
NVNT	n40	5230	Ant1	-6.1	0.12	-5.98	11	Pass
NVNT	ac20	5180	Ant1	-3.04	0.06	-2.98	11	Pass
NVNT	ac20	5200	Ant1	-3.35	0.06	-3.29	11	Pass
NVNT	ac20	5240	Ant1	-3.03	0.06	-2.97	11	Pass
NVNT	ac40	5190	Ant1	-5.4	0.12	-5.28	11	Pass
NVNT	ac40	5230	Ant1	-5.17	0.12	-5.05	11	Pass
NVNT	ac80	5210	Ant1	-10.05	0.24	-9.81	11	Pass

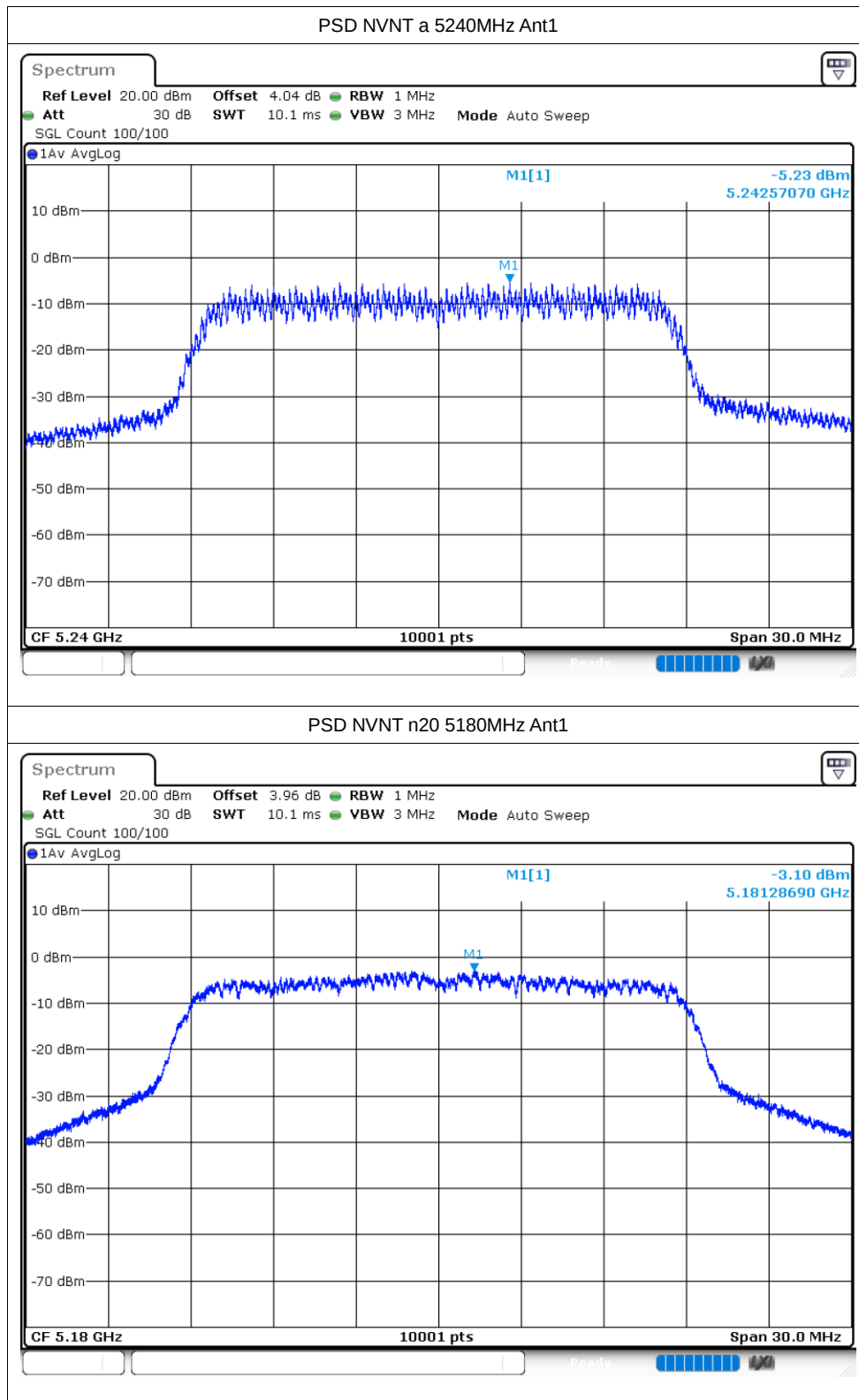
Test Graphs

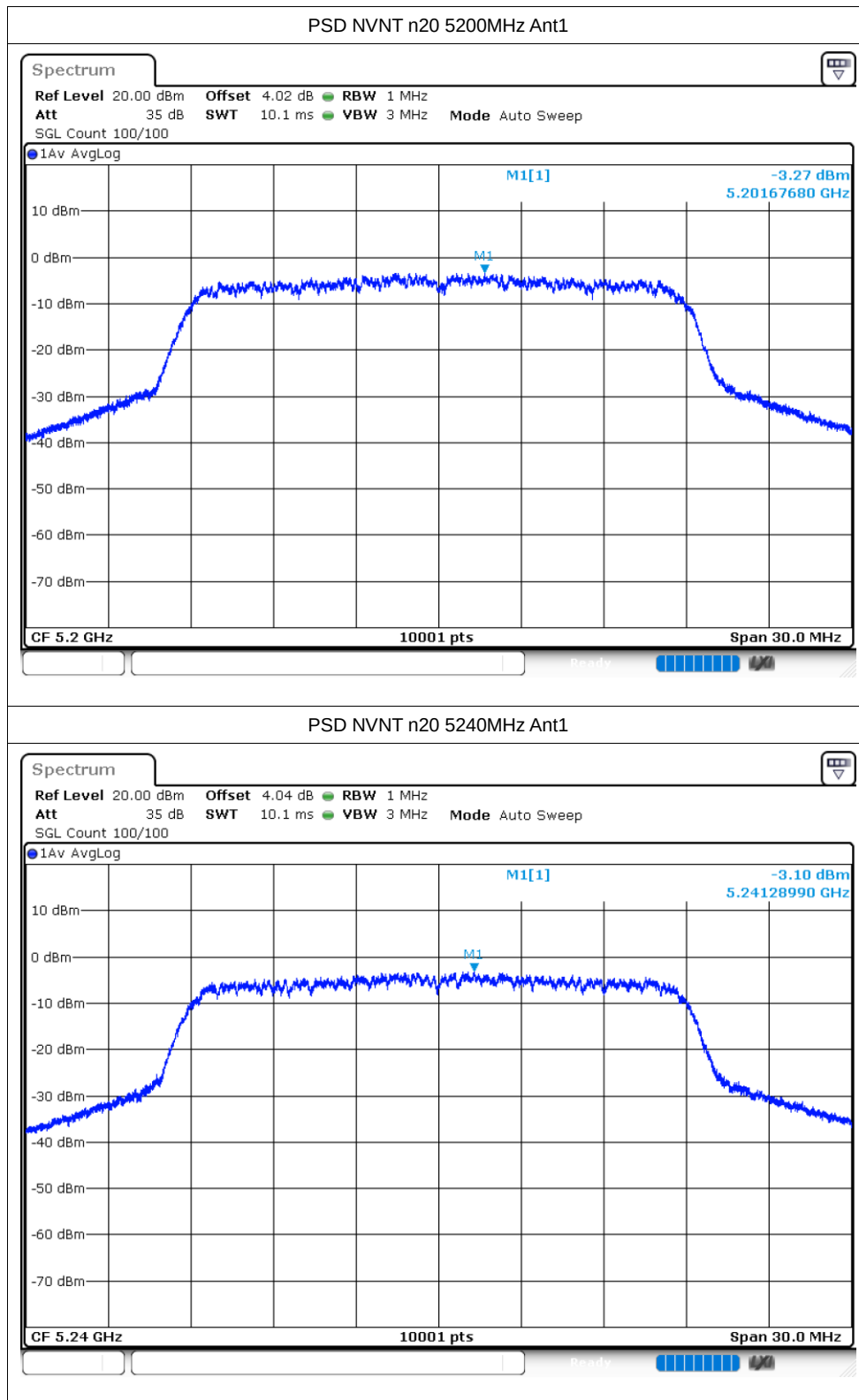
PSD NVNT a 5180MHz Ant1

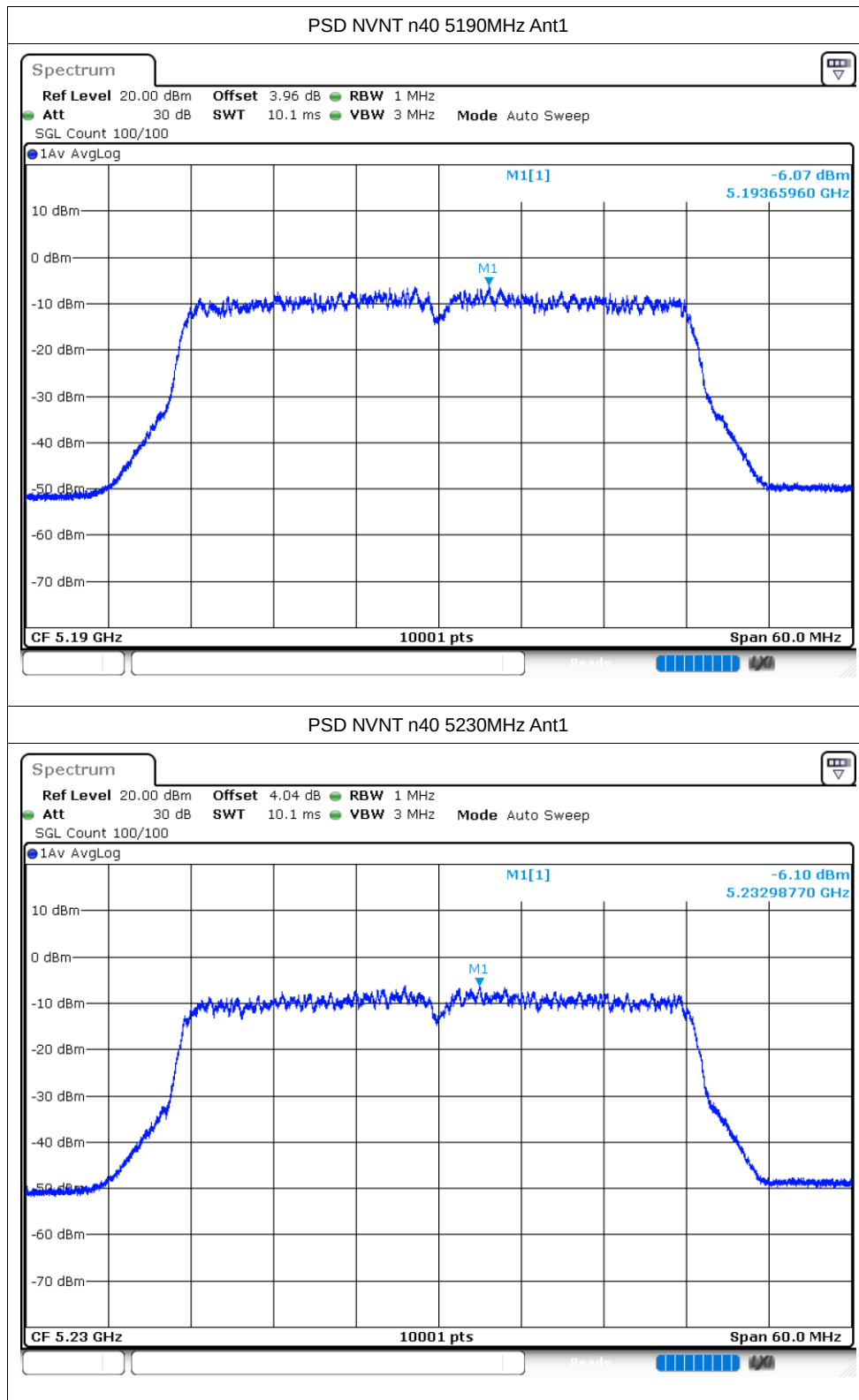


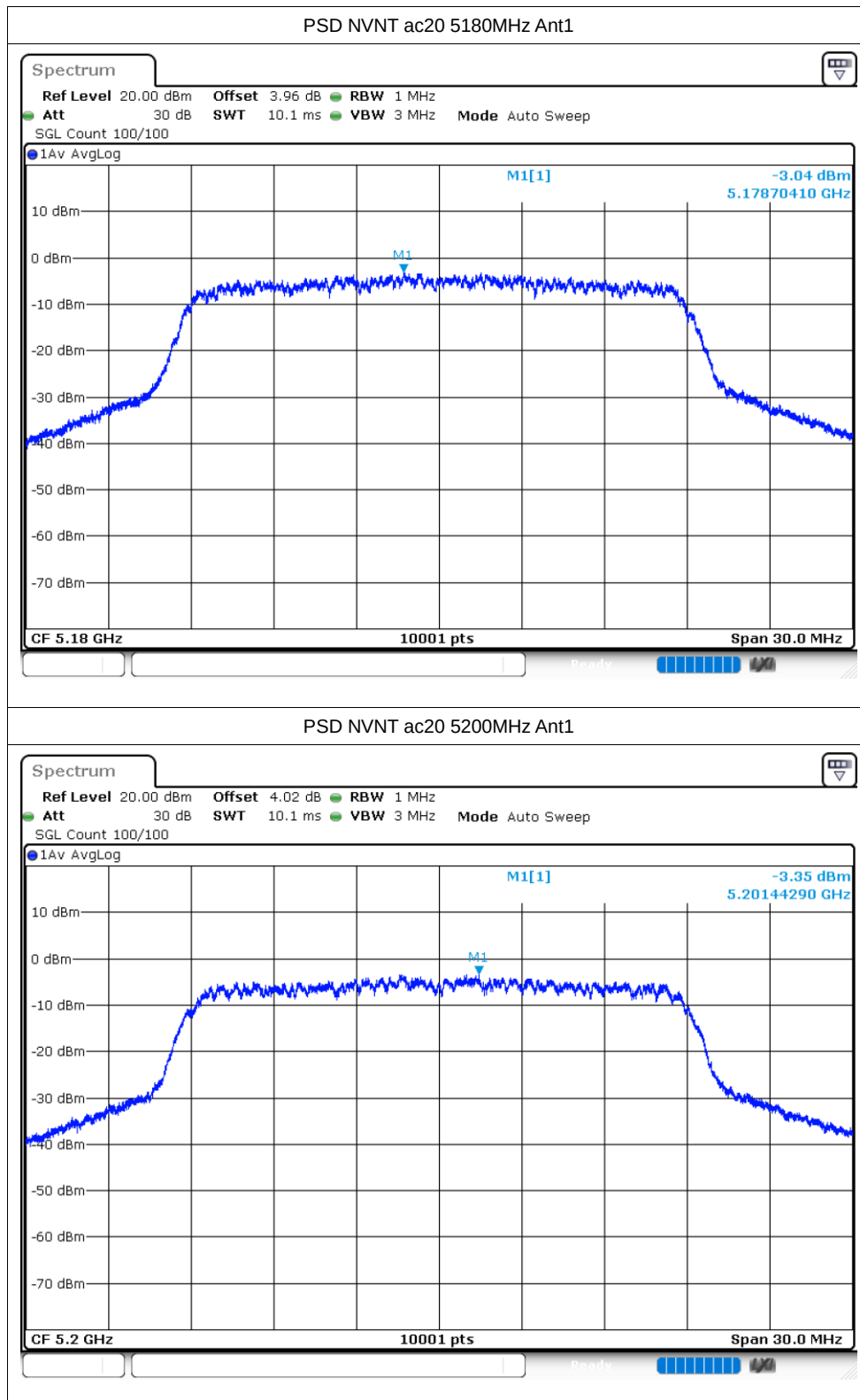
PSD NVNT a 5200MHz Ant1

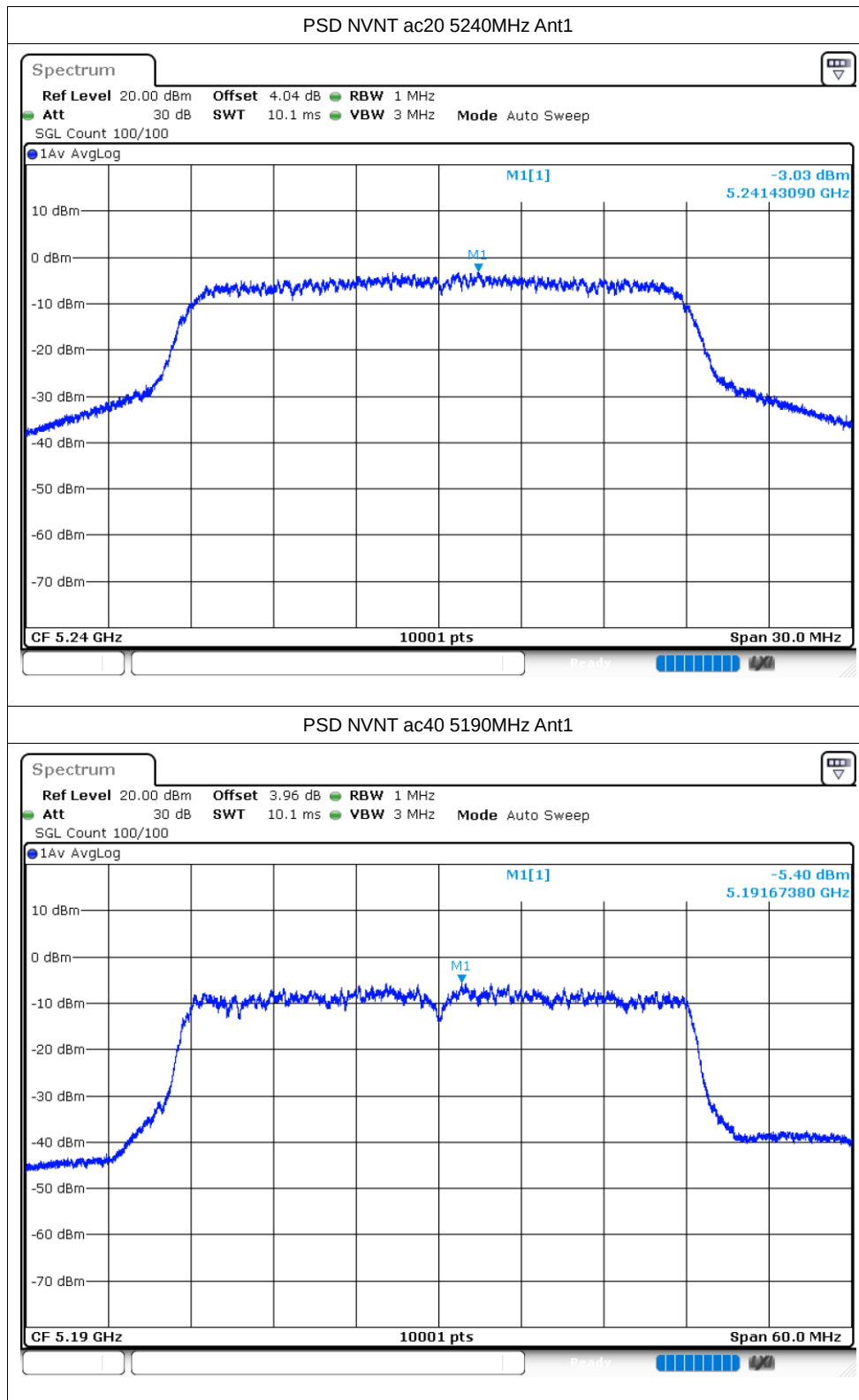


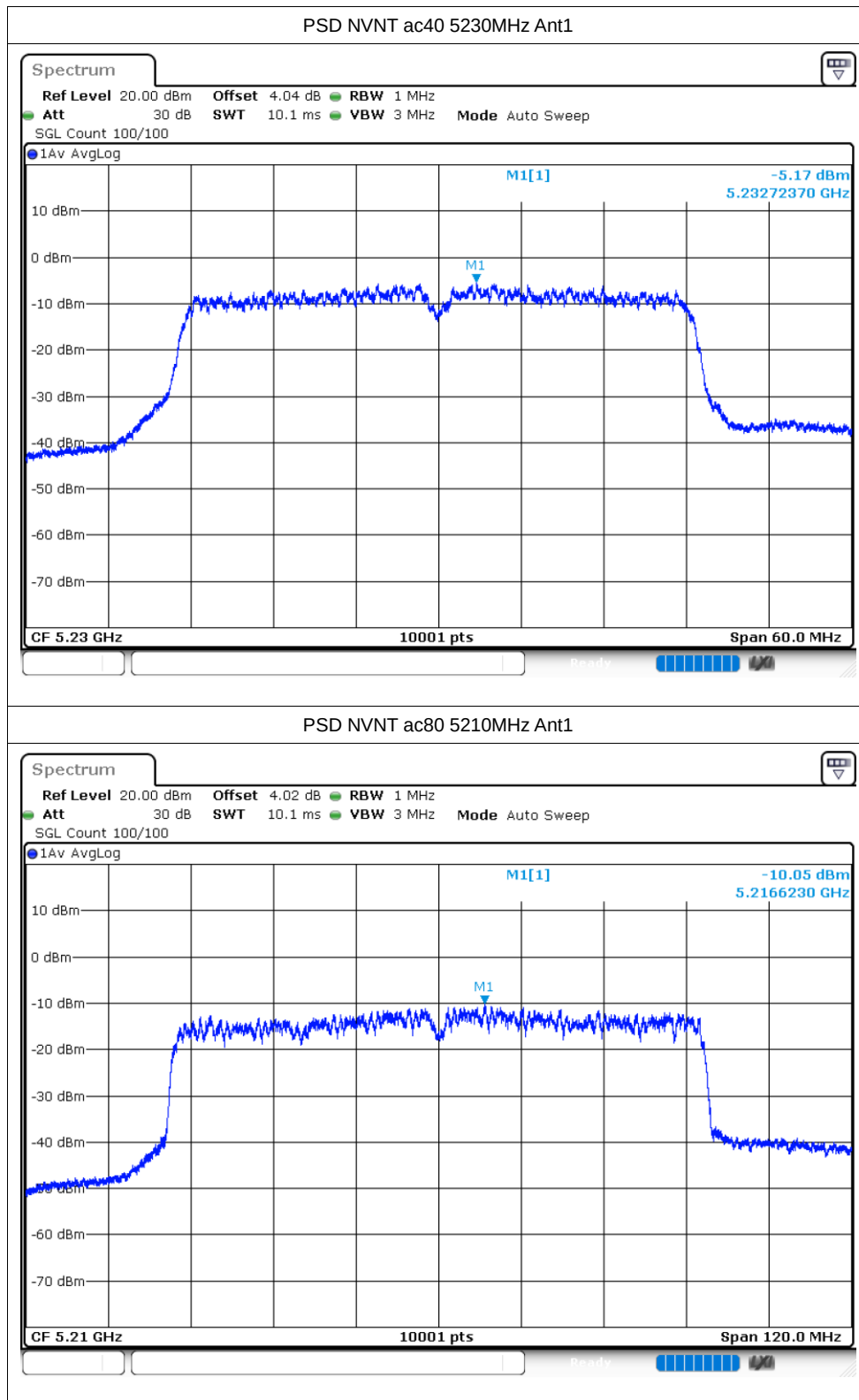












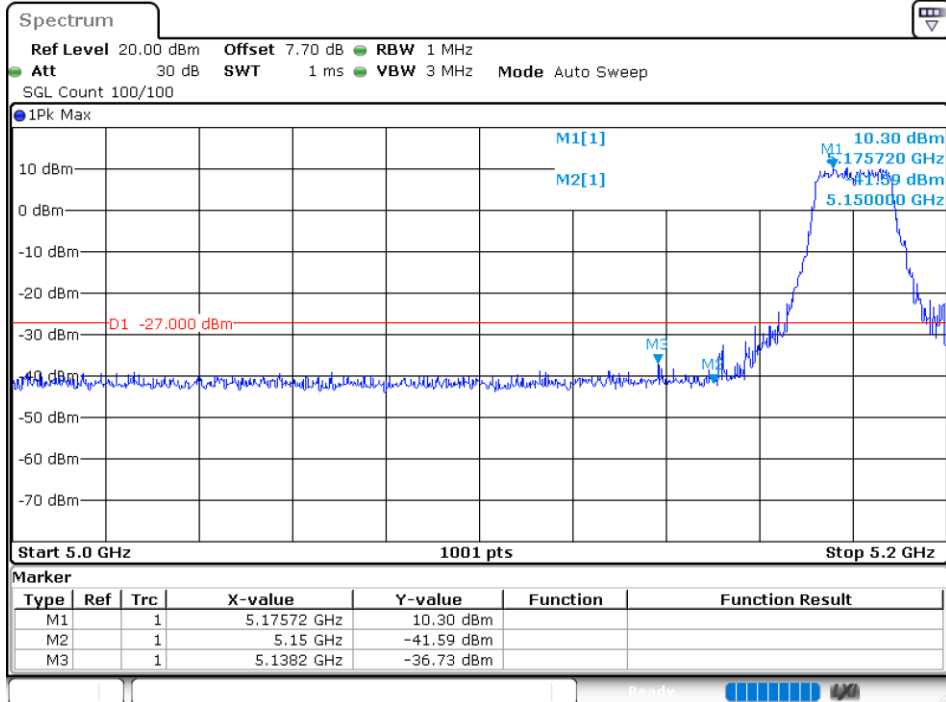
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-36.72	-27	Pass
NVNT	a	5240	Ant1	-38.4	-27	Pass
NVNT	n20	5180	Ant1	-38.9	-27	Pass
NVNT	n20	5240	Ant1	-38.89	-27	Pass
NVNT	n40	5190	Ant1	-37.14	-27	Pass
NVNT	n40	5230	Ant1	-38.52	-27	Pass
NVNT	ac20	5180	Ant1	-38.73	-27	Pass
NVNT	ac20	5240	Ant1	-38.97	-27	Pass
NVNT	ac40	5190	Ant1	-34.54	-27	Pass
NVNT	ac40	5230	Ant1	-38.86	-27	Pass
NVNT	ac80	5210	Ant1	-39.07	-27	Pass
NVNT	ac80	5210	Ant1	-32.4	-27	Pass

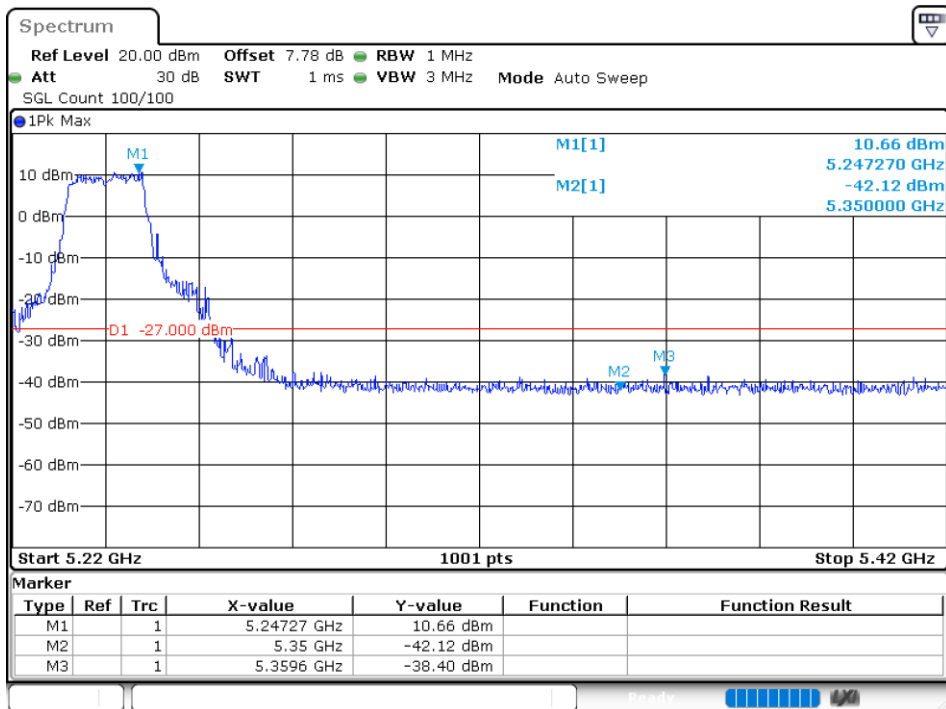
Note: This test has increased antenna gain.

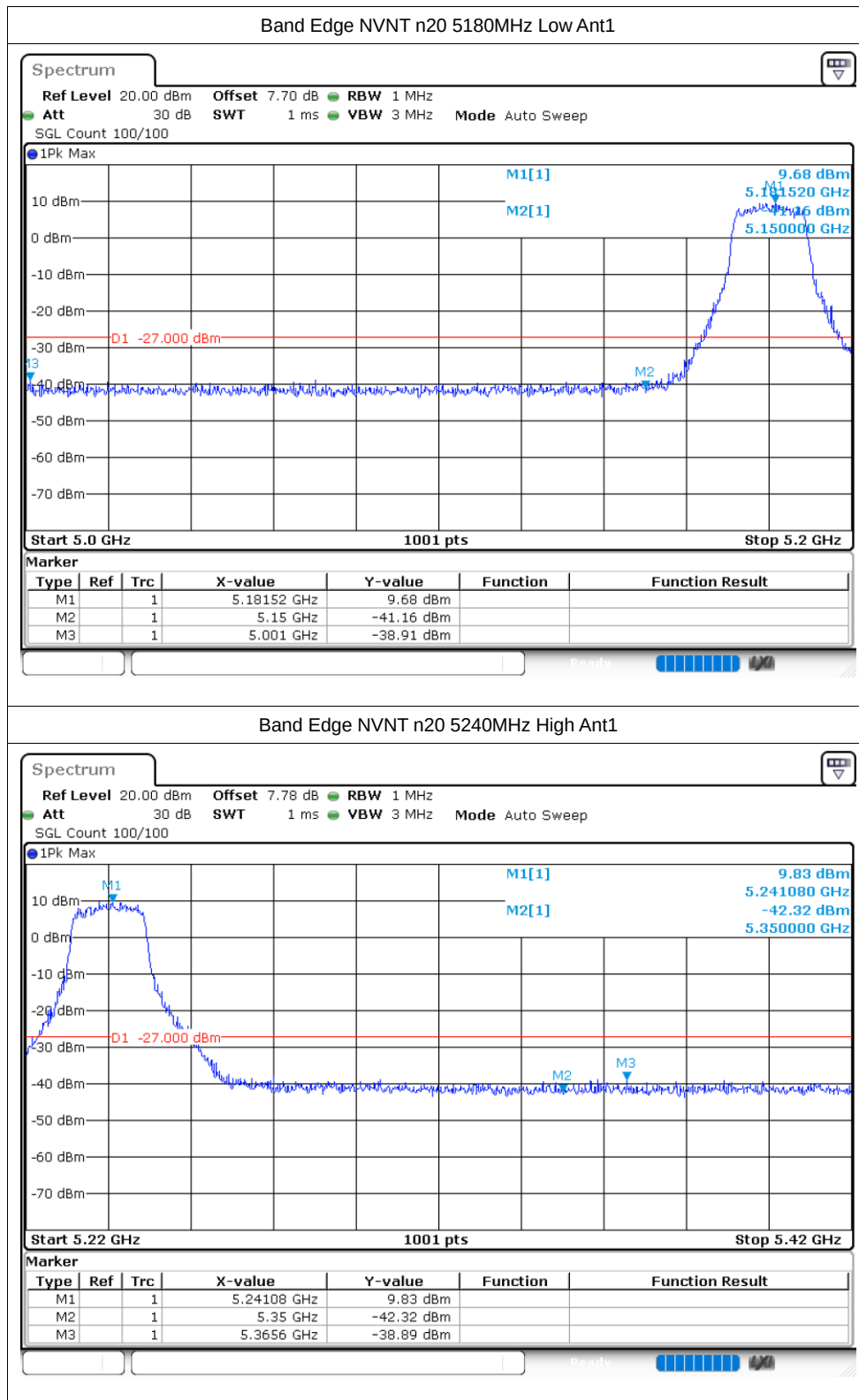
Test Graphs

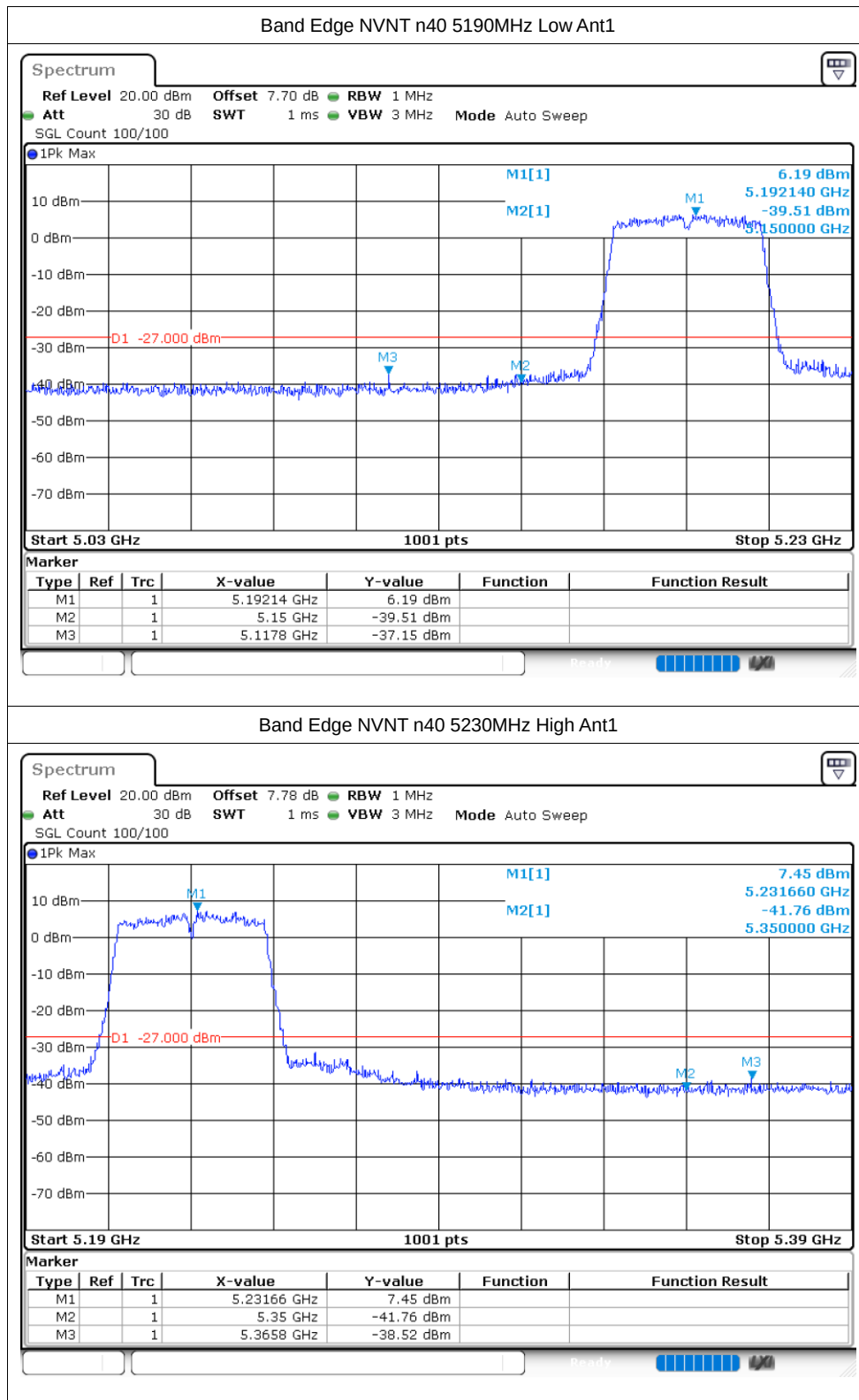
Band Edge NVNT a 5180MHz Low Ant1

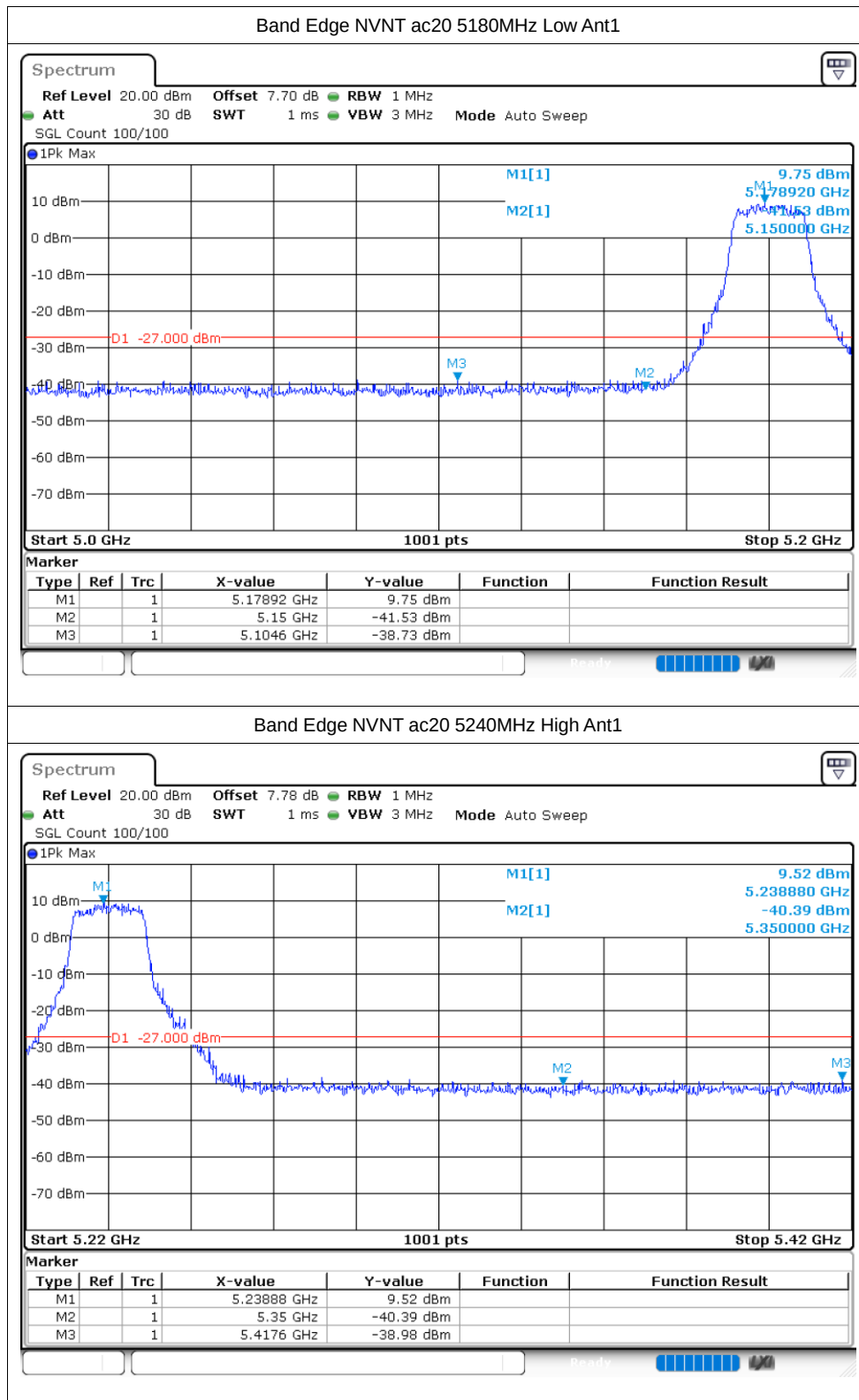


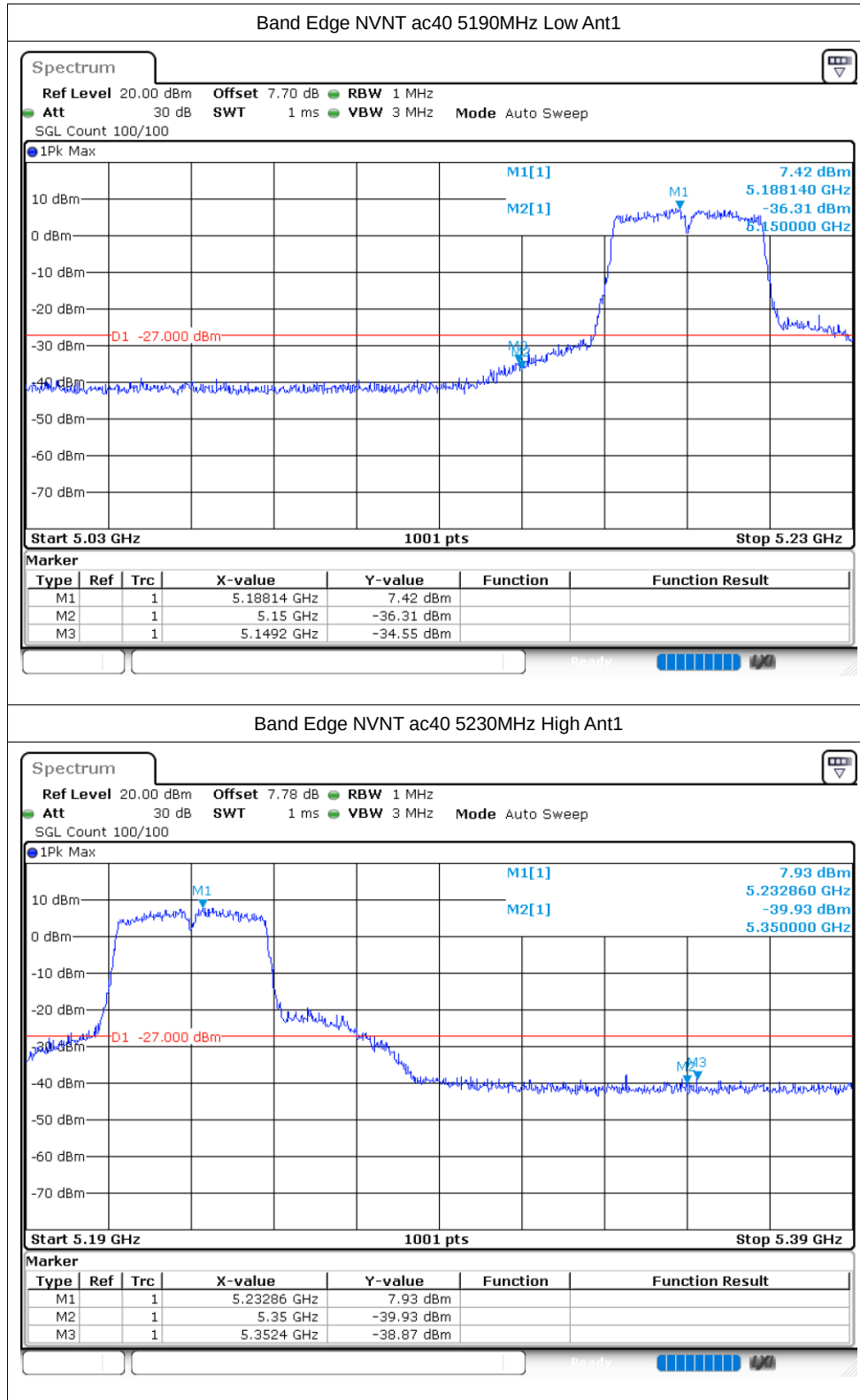
Band Edge NVNT a 5240MHz High Ant1

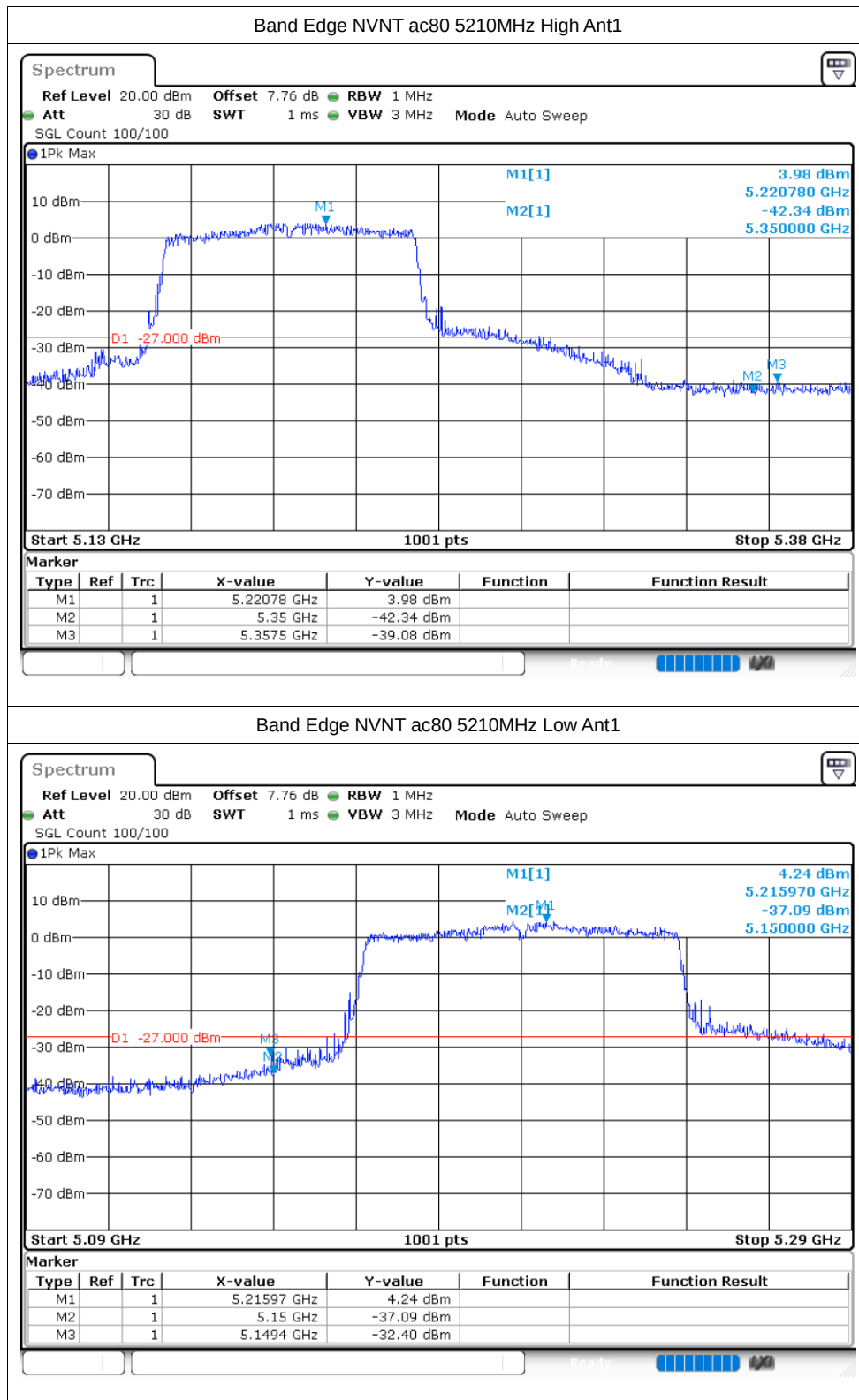












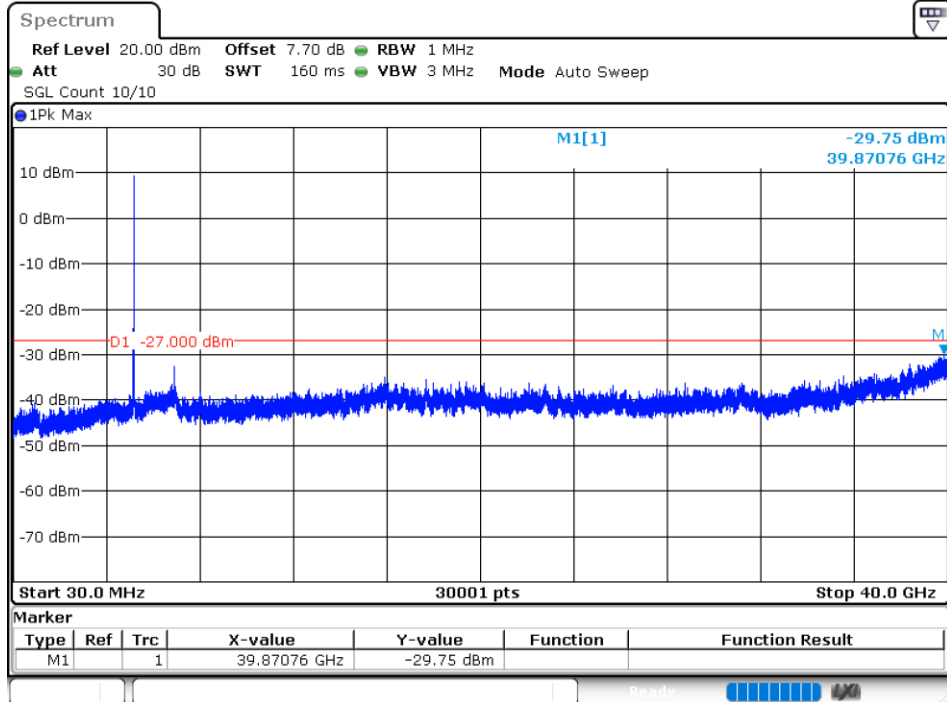
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-29.75	-27	Pass
NVNT	a	5200	Ant1	-30.17	-27	Pass
NVNT	a	5240	Ant1	-29.49	-27	Pass
NVNT	n20	5180	Ant1	-30.97	-27	Pass
NVNT	n20	5200	Ant1	-29.53	-27	Pass
NVNT	n20	5240	Ant1	-30.29	-27	Pass
NVNT	n40	5190	Ant1	-30.25	-27	Pass
NVNT	n40	5230	Ant1	-30.34	-27	Pass
NVNT	ac20	5180	Ant1	-29.99	-27	Pass
NVNT	ac20	5200	Ant1	-30.09	-27	Pass
NVNT	ac20	5240	Ant1	-30.11	-27	Pass
NVNT	ac40	5190	Ant1	-30.2	-27	Pass
NVNT	ac40	5230	Ant1	-30.32	-27	Pass
NVNT	ac80	5210	Ant1	-30.39	-27	Pass

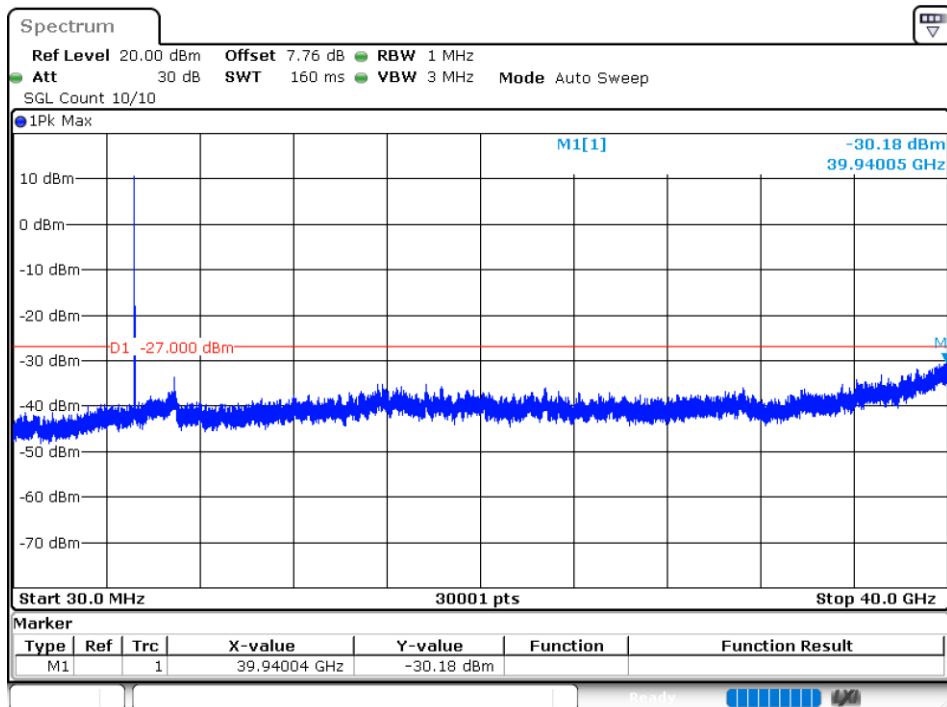
Note: This test has increased antenna gain.

Test Graphs

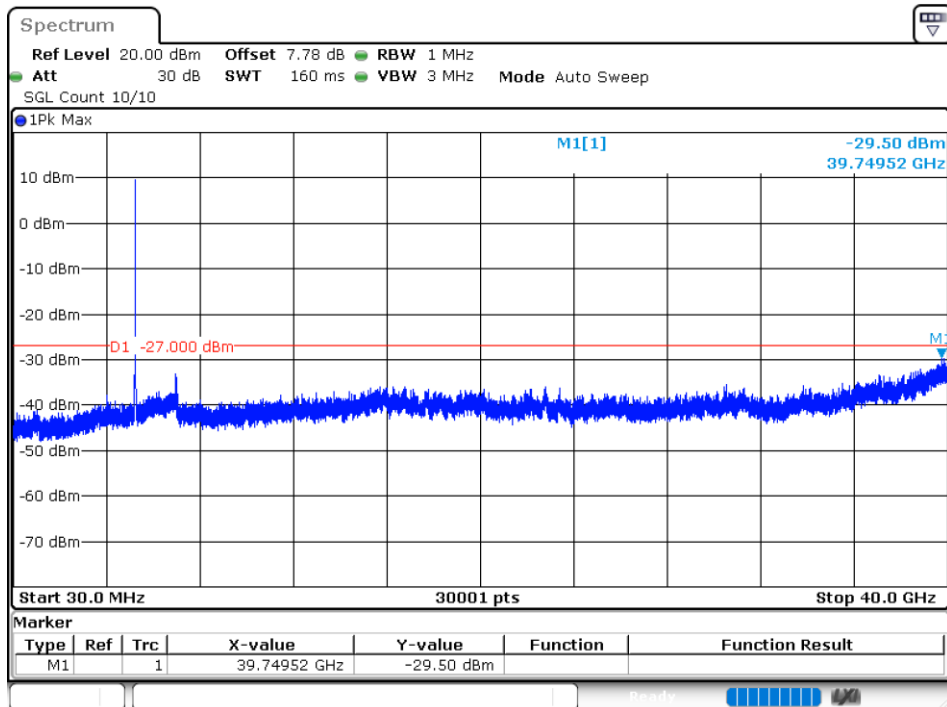
Tx. Spurious NVNT a 5180MHz Ant1 Emission



Tx. Spurious NVNT a 5200MHz Ant1 Emission



Tx. Spurious NVNT a 5240MHz Ant1 Emission



Tx. Spurious NVNT n20 5180MHz Ant1 Emission

