

5.2G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.6	0.24	0.49
NVNT	a	5200	Ant1	94.48	0.25	0.49
NVNT	a	5240	Ant1	94.48	0.25	0.48
NVNT	n20	5180	Ant1	94.24	0.26	0.52
NVNT	n20	5200	Ant1	94.24	0.26	0.52
NVNT	n20	5240	Ant1	94.12	0.26	0.52
NVNT	n40	5190	Ant1	88.85	0.51	1.05
NVNT	n40	5230	Ant1	88.86	0.51	1.05

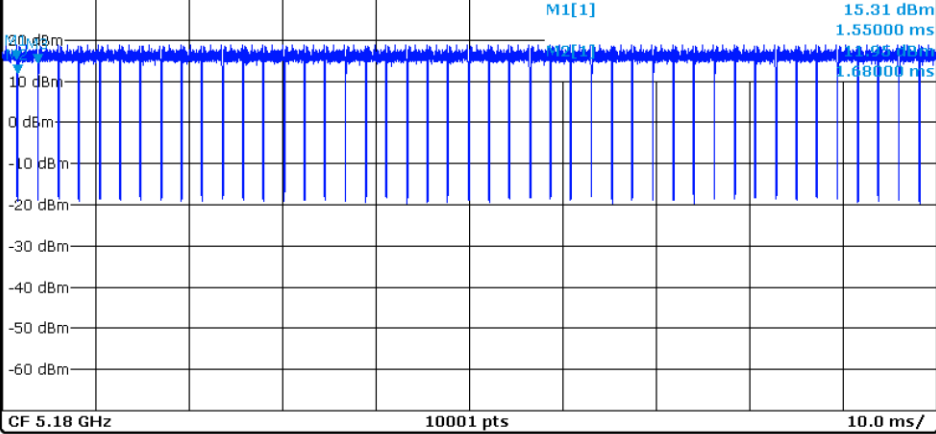
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.72 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw

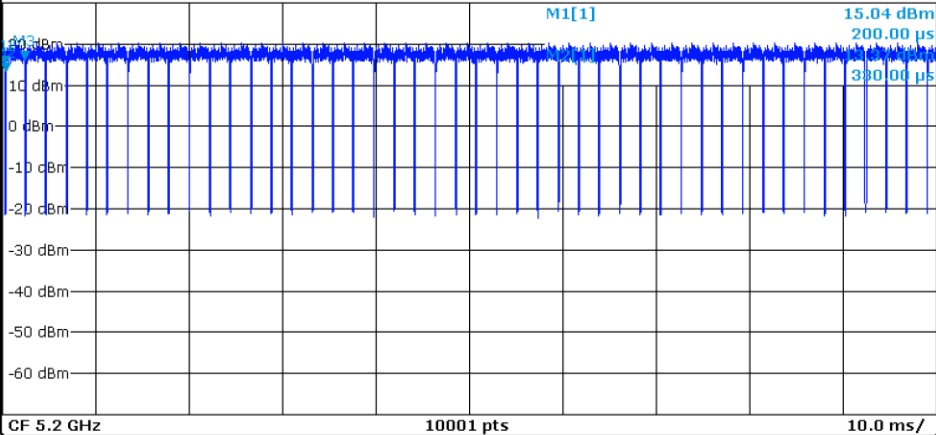


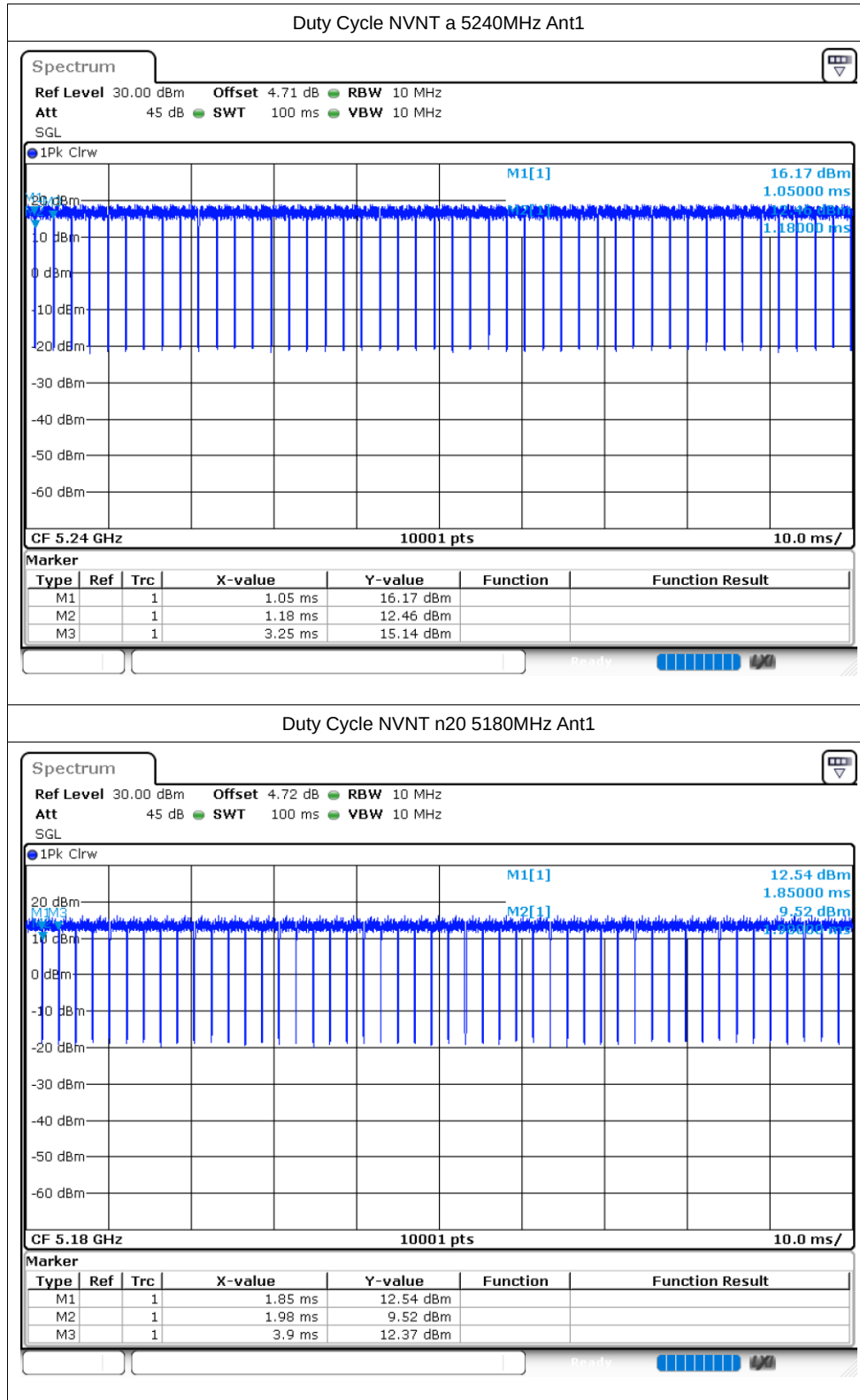
Duty Cycle NVNT a 5200MHz Ant1

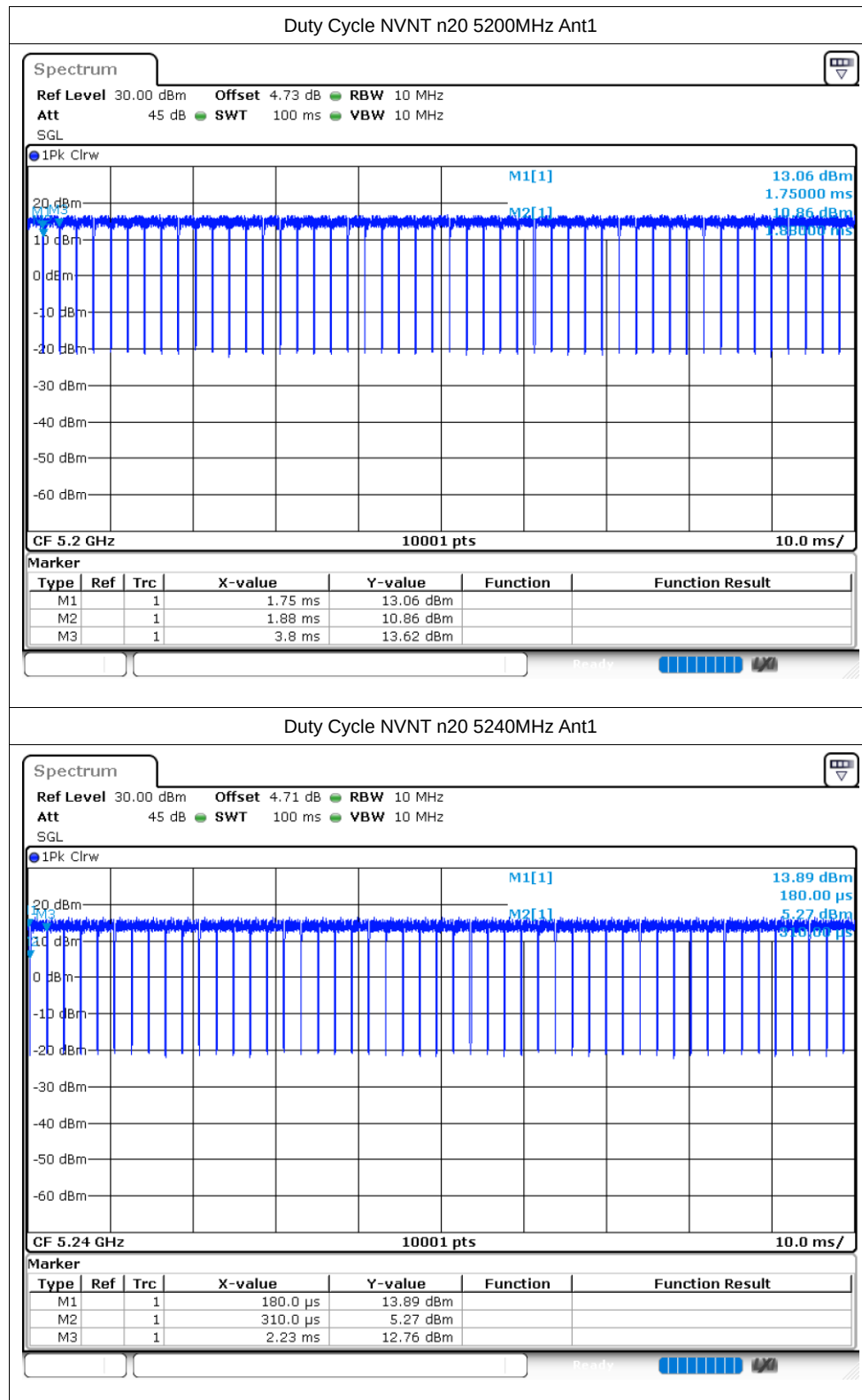
Spectrum

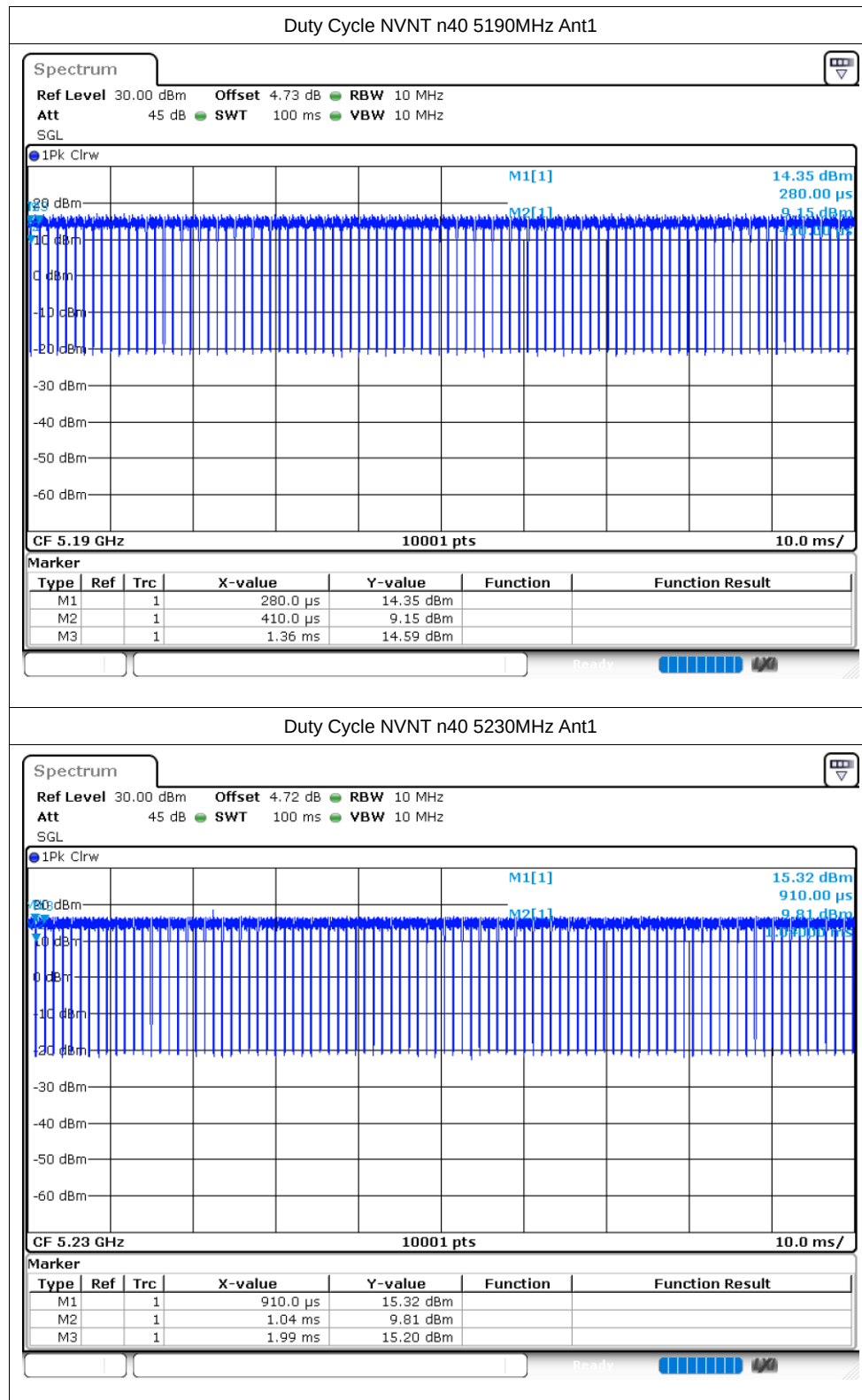
Ref Level 30.00 dBm Offset 4.73 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw









Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.34	24	Pass
NVNT	a	5200	Ant1	11.88	24	Pass
NVNT	a	5240	Ant1	12.56	24	Pass
NVNT	n20	5180	Ant1	8.85	24	Pass
NVNT	n20	5200	Ant1	9.63	24	Pass
NVNT	n20	5240	Ant1	9.9	24	Pass
NVNT	n40	5190	Ant1	11.55	24	Pass
NVNT	n40	5230	Ant1	12.71	24	Pass

Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.976	Pass
NVNT	a	5200	Ant1	20.445	Pass
NVNT	a	5240	Ant1	20.721	Pass
NVNT	n20	5180	Ant1	21.264	Pass
NVNT	n20	5200	Ant1	21.081	Pass
NVNT	n20	5240	Ant1	21.192	Pass
NVNT	n40	5190	Ant1	38.784	Pass
NVNT	n40	5230	Ant1	38.85	Pass

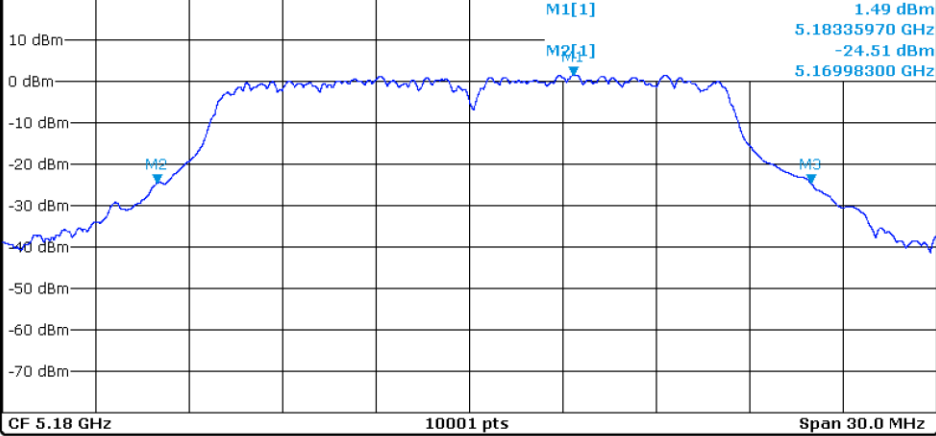
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.72 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

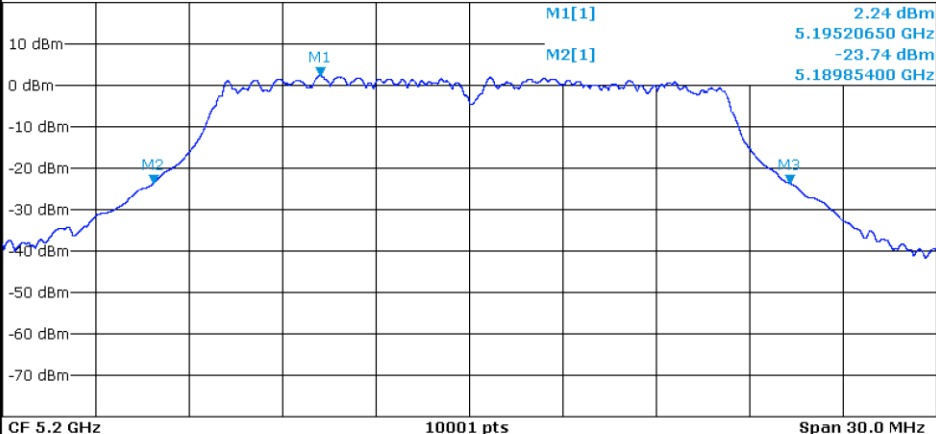
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1833597 GHz	1.49 dBm		
M2	1		5.169983 GHz	-24.51 dBm		
M3	1		5.190959 GHz	-24.51 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.73 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



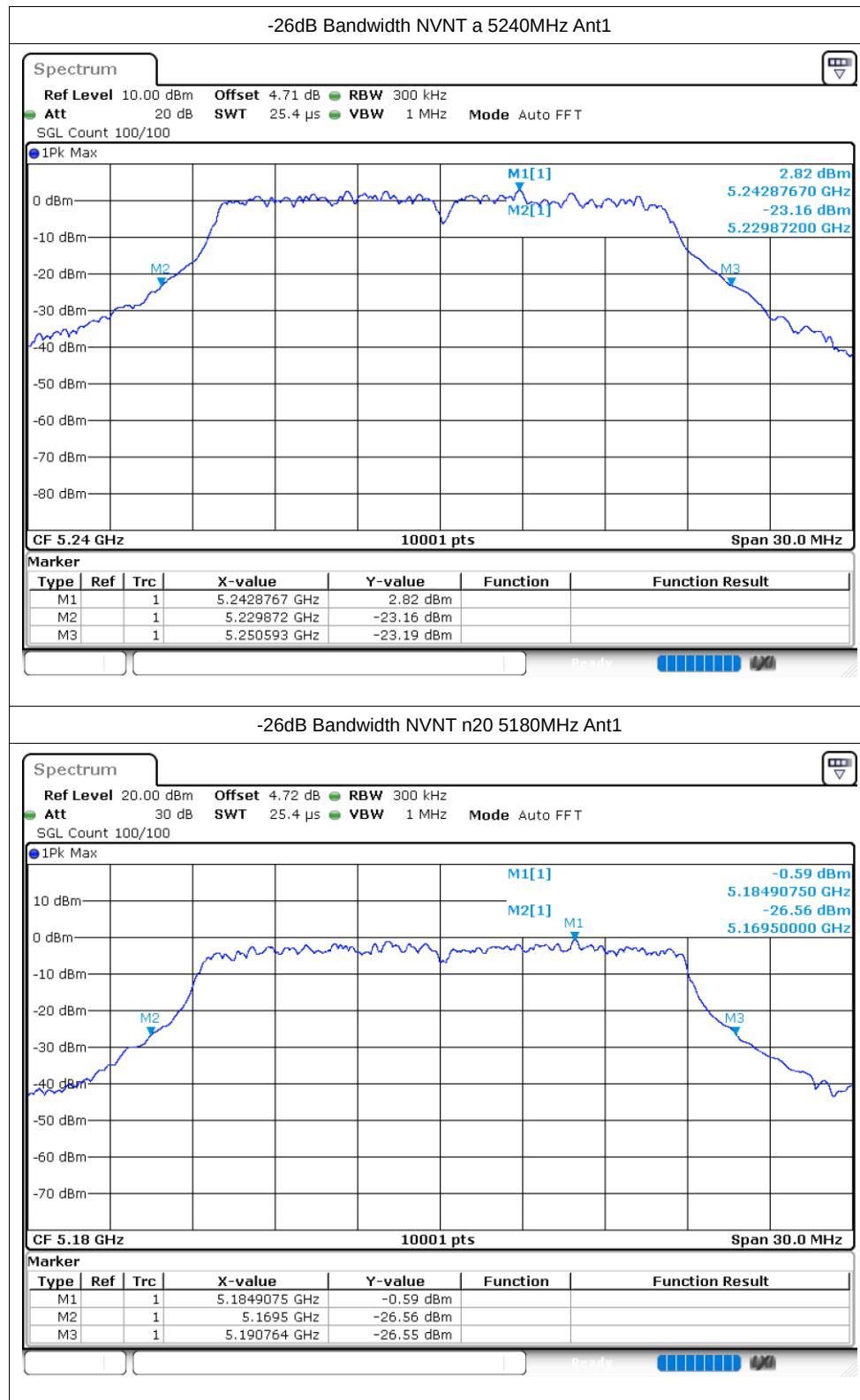
CF 5.2 GHz

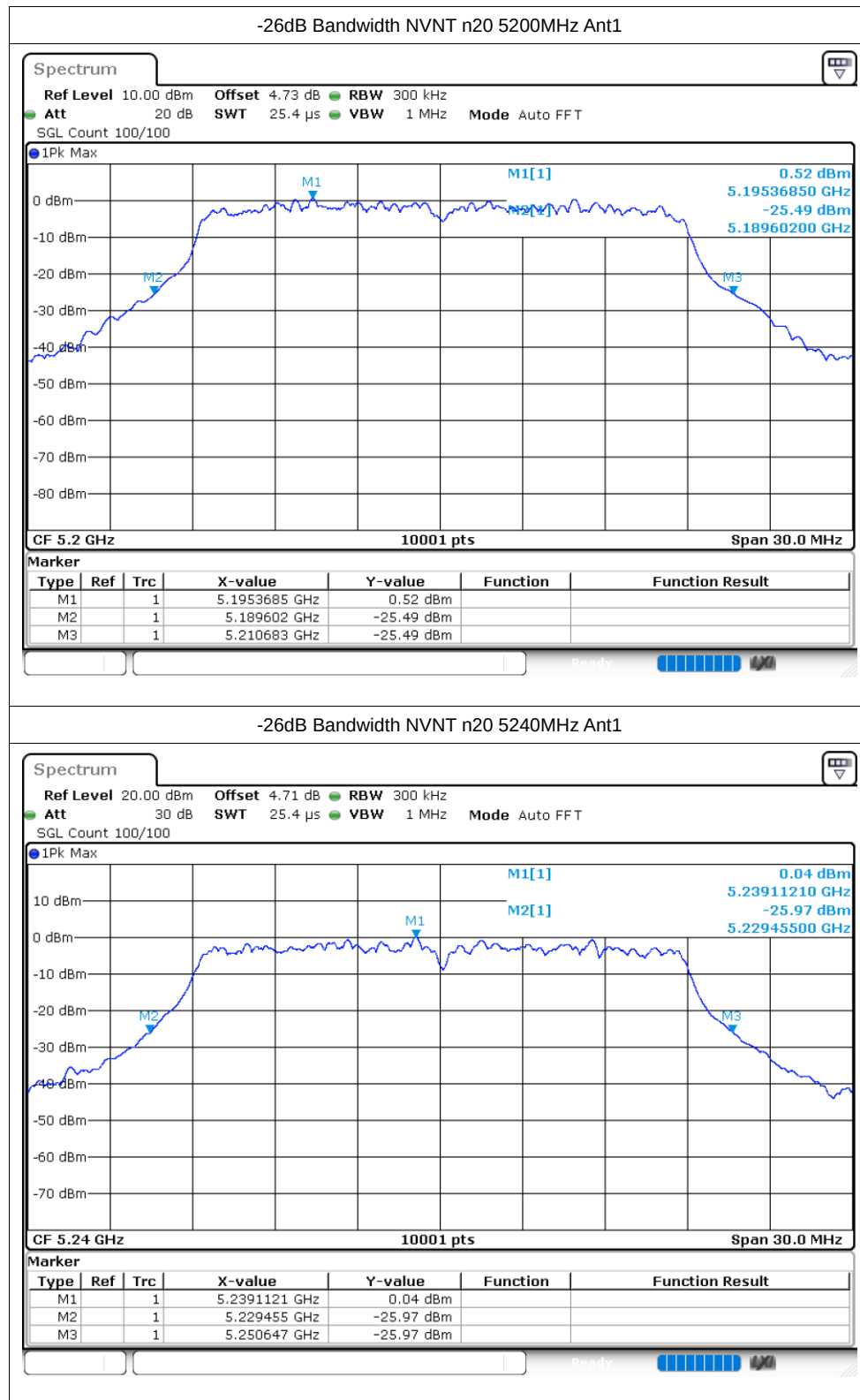
10001 pts

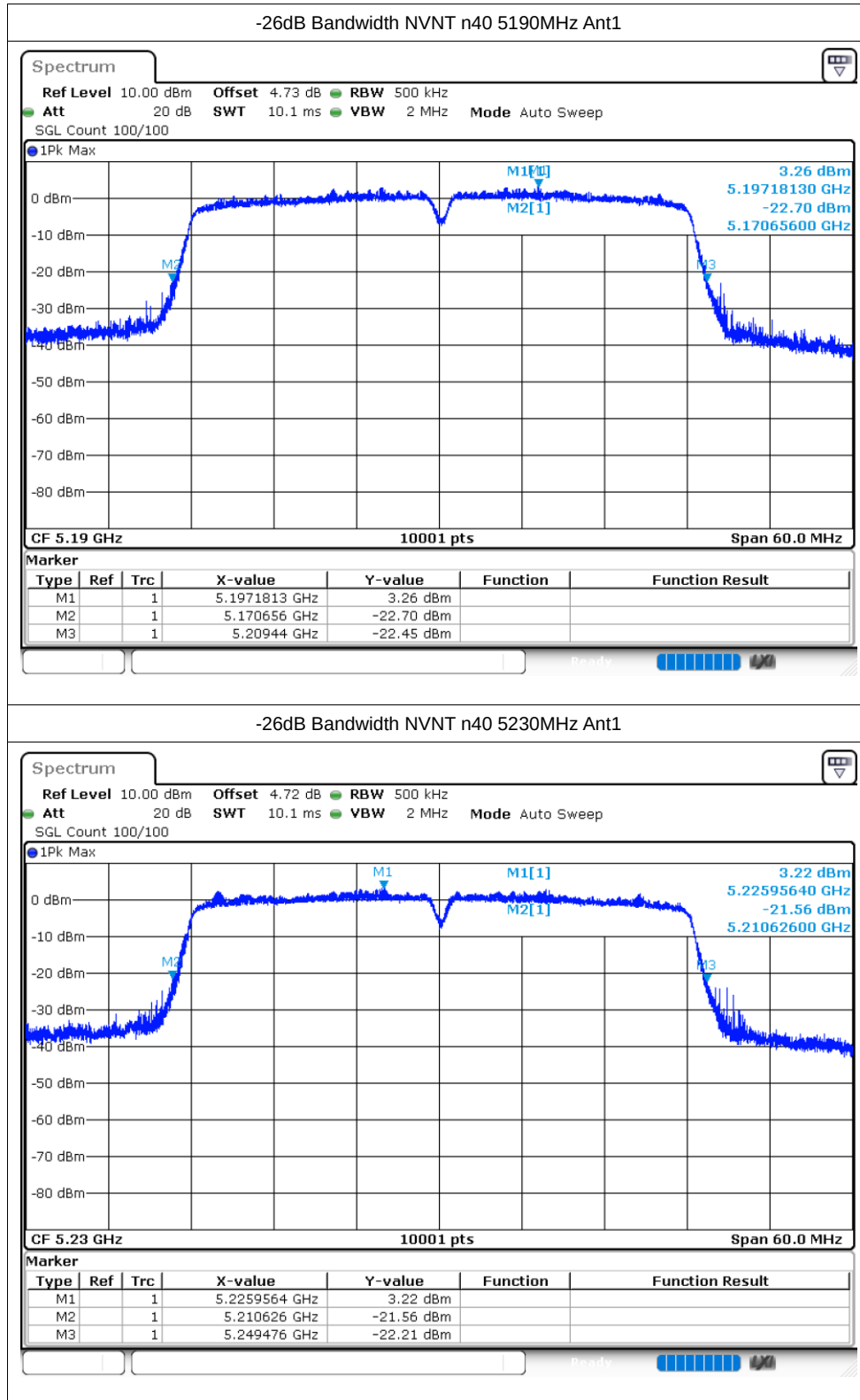
Span 30.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1952065 GHz	2.24 dBm		
M2	1		5.189854 GHz	-23.74 dBm		
M3	1		5.210299 GHz	-23.75 dBm		





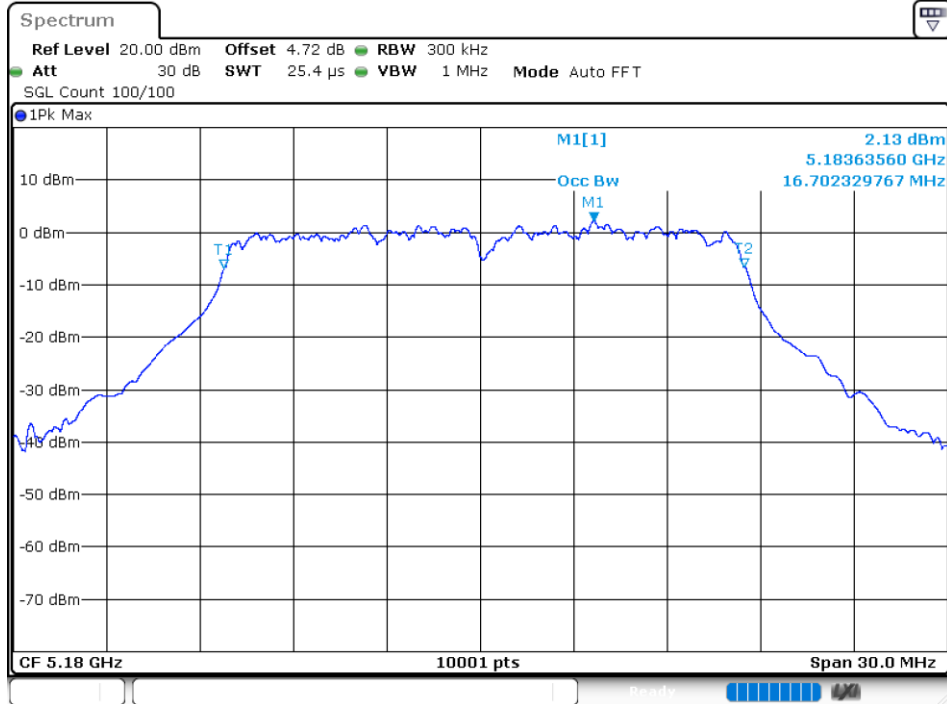


Occupied Channel Bandwidth

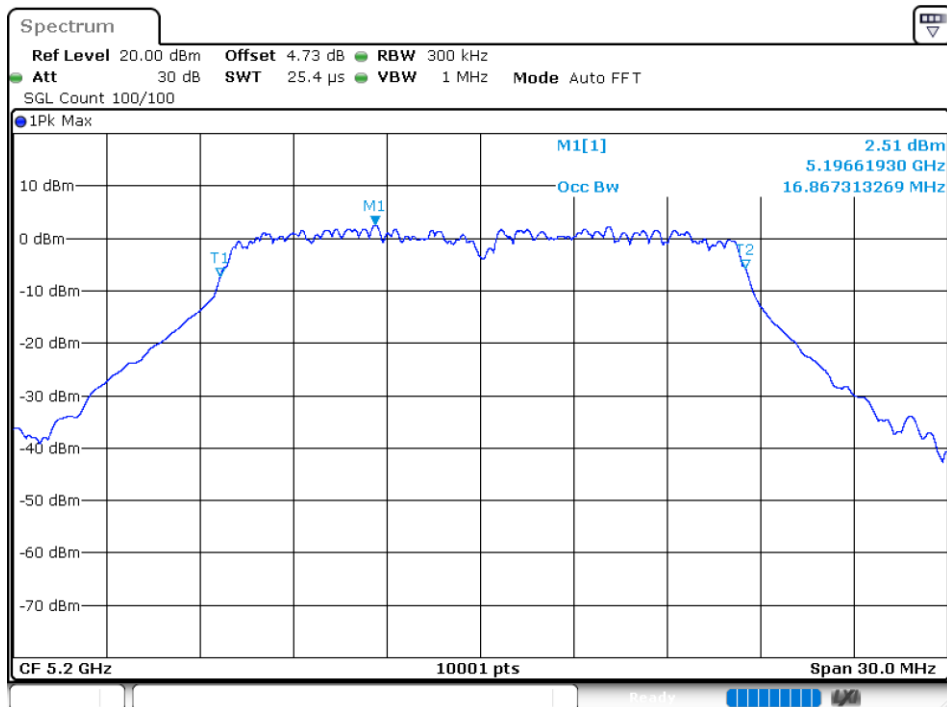
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.702
NVNT	a	5200	Ant1	16.867
NVNT	a	5240	Ant1	16.906
NVNT	n20	5180	Ant1	17.626
NVNT	n20	5200	Ant1	17.596
NVNT	n20	5240	Ant1	17.689
NVNT	n40	5190	Ant1	35.75
NVNT	n40	5230	Ant1	35.798

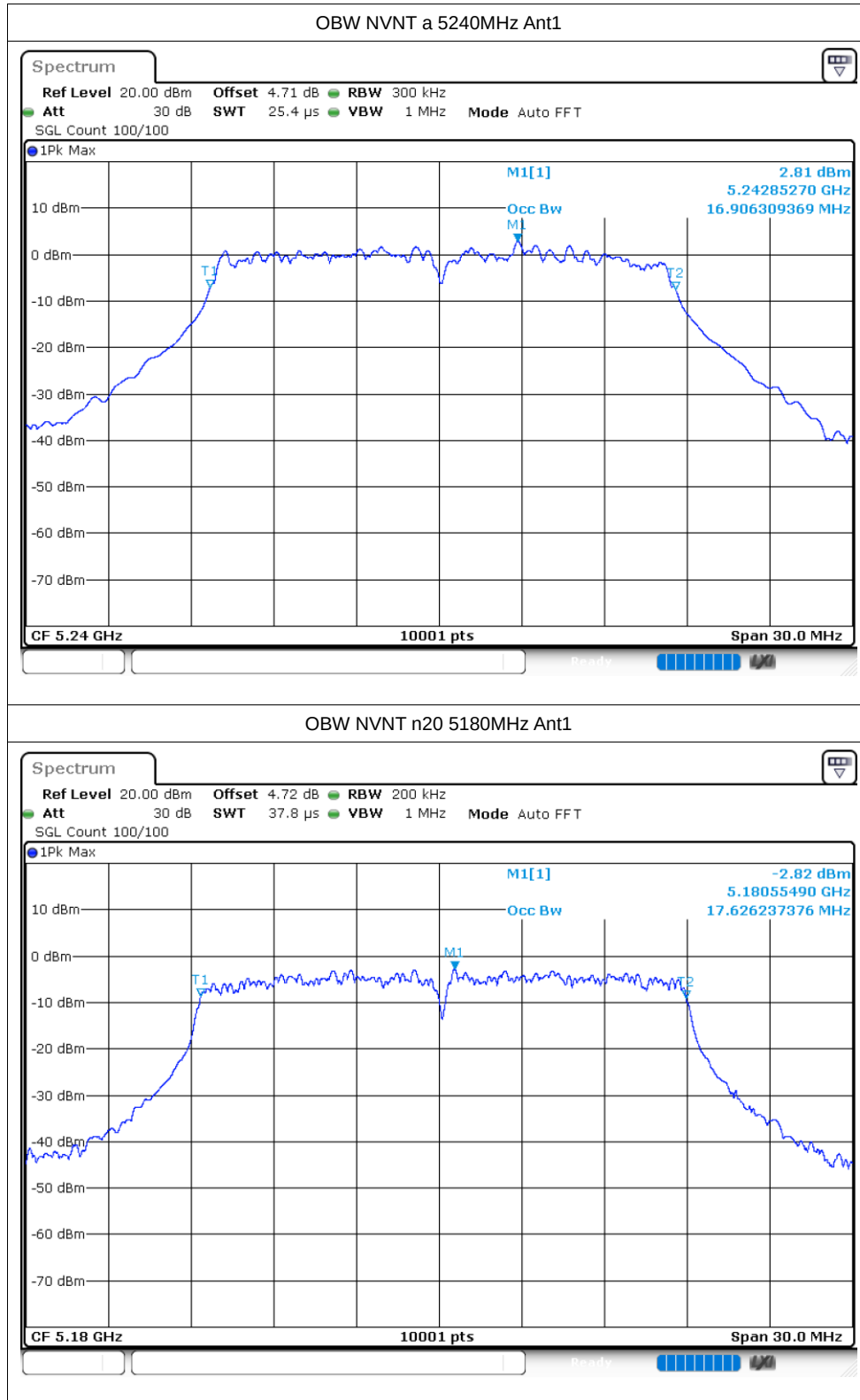
Test Graphs

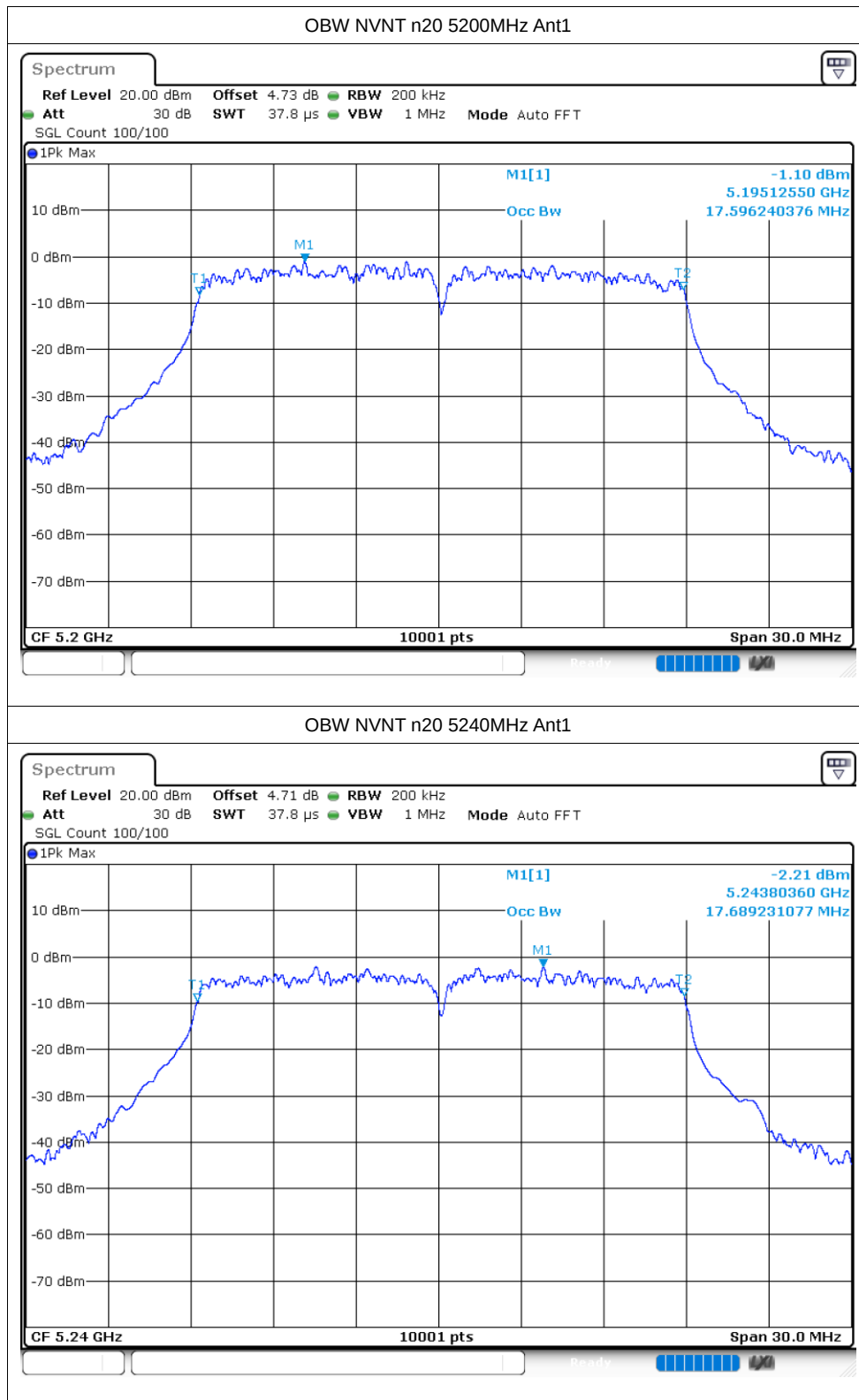
OBW NVNT a 5180MHz Ant1

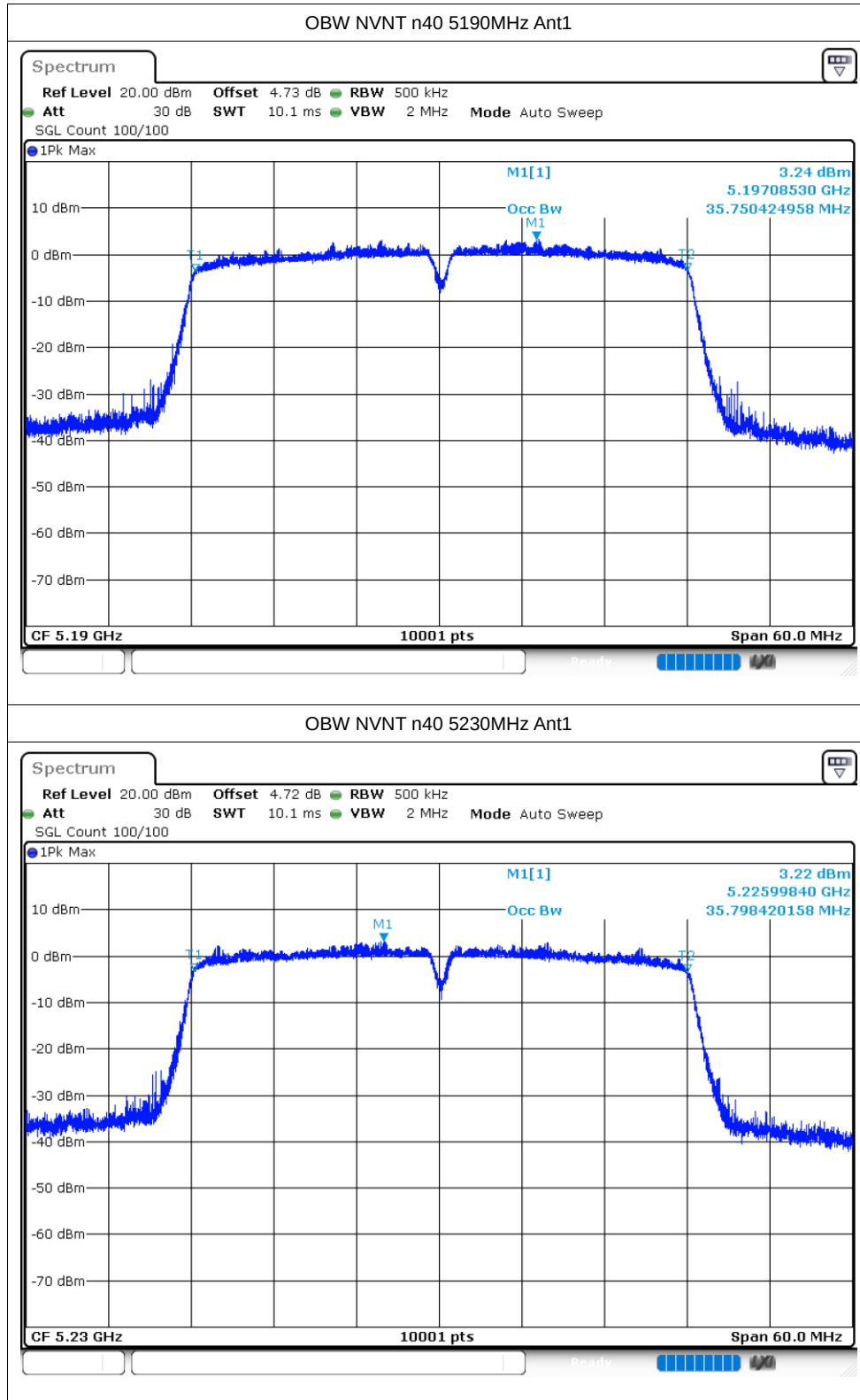


OBW NVNT a 5200MHz Ant1







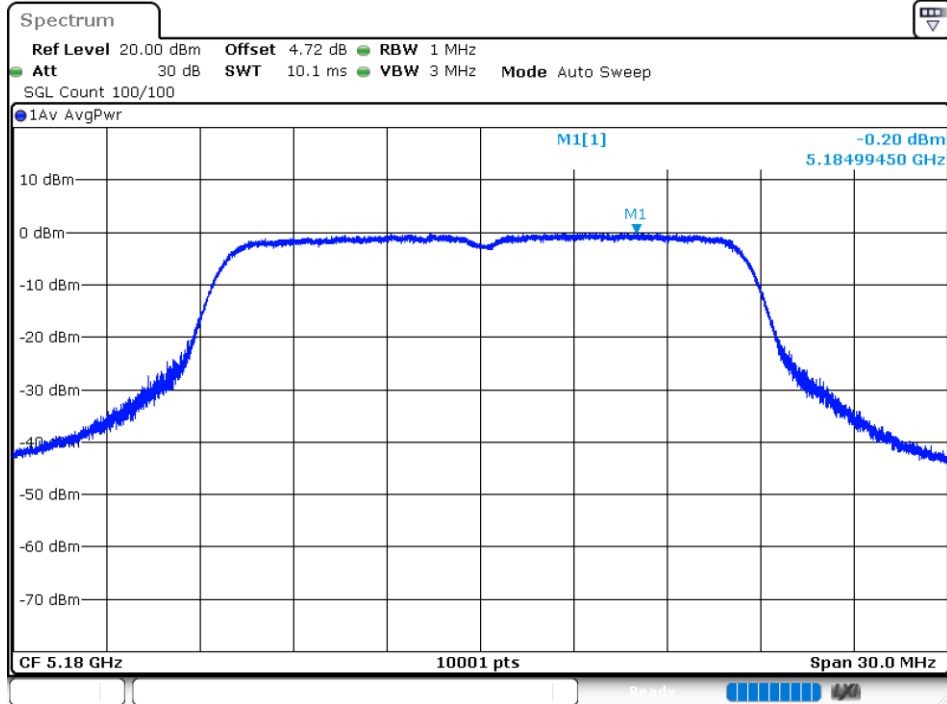


Maximum Power Spectral Density Level

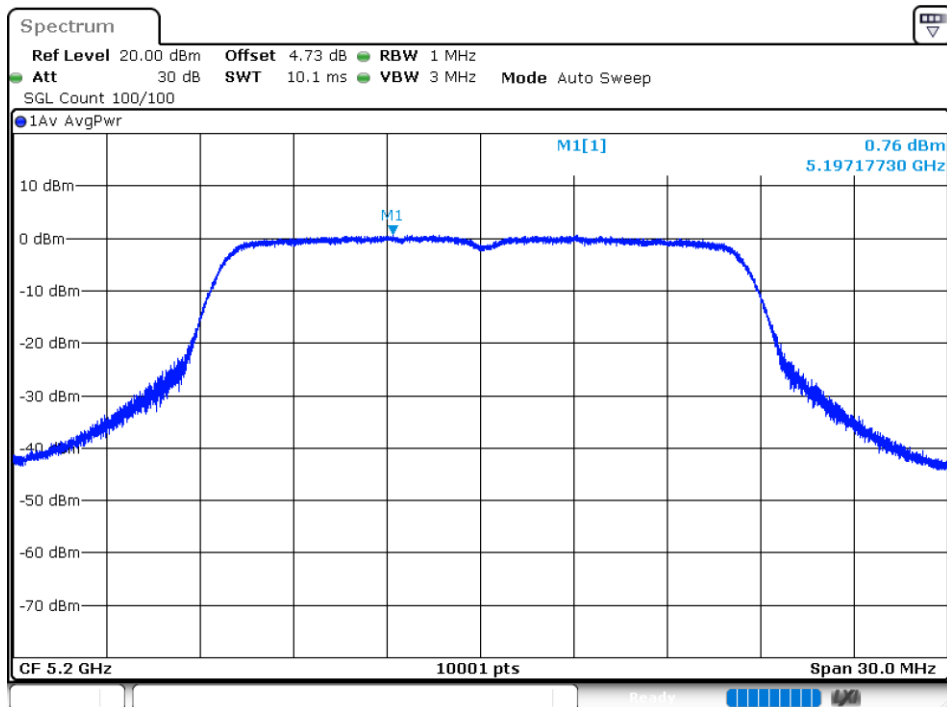
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.2	0.24	0.04	11	Pass
NVNT	a	5200	Ant1	0.76	0.25	1.01	11	Pass
NVNT	a	5240	Ant1	-0.38	0.25	-0.13	11	Pass
NVNT	n20	5180	Ant1	-3.38	0.26	-3.12	11	Pass
NVNT	n20	5200	Ant1	-2.4	0.26	-2.14	11	Pass
NVNT	n20	5240	Ant1	-3.07	0.26	-2.81	11	Pass
NVNT	n40	5190	Ant1	-3.08	0.51	-2.57	11	Pass
NVNT	n40	5230	Ant1	-3.07	0.51	-2.56	11	Pass

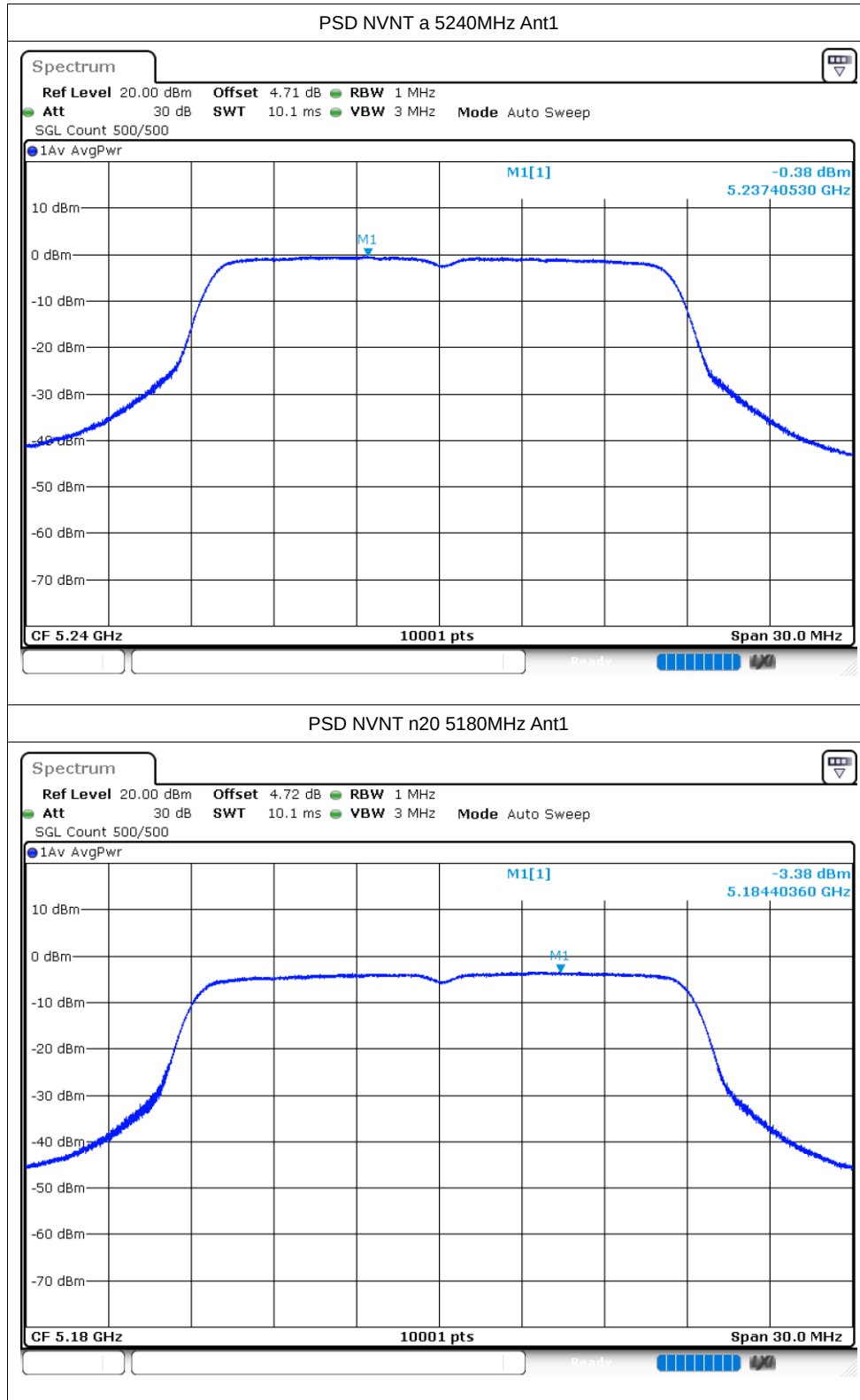
Test Graphs

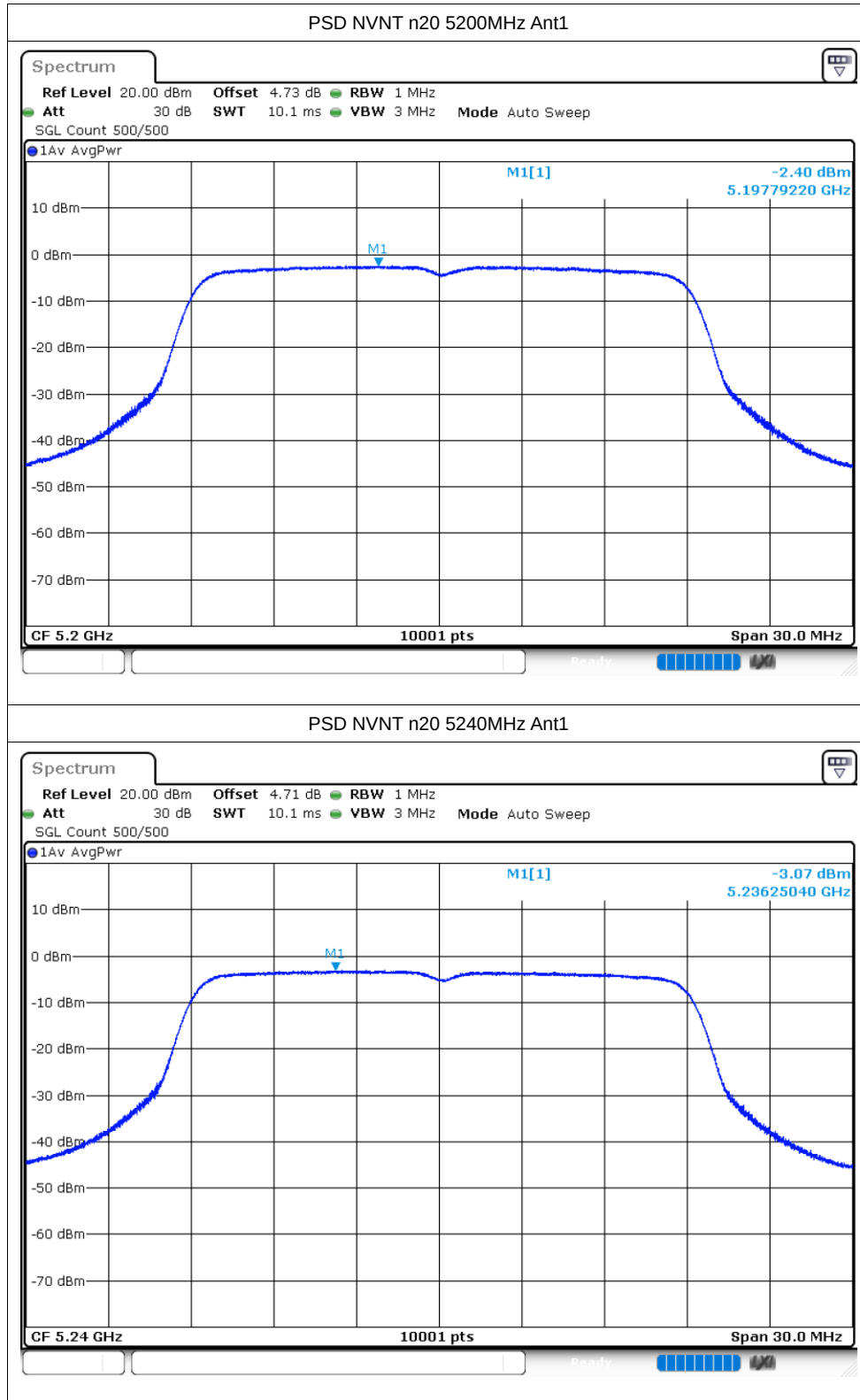
PSD NVNT a 5180MHz Ant1

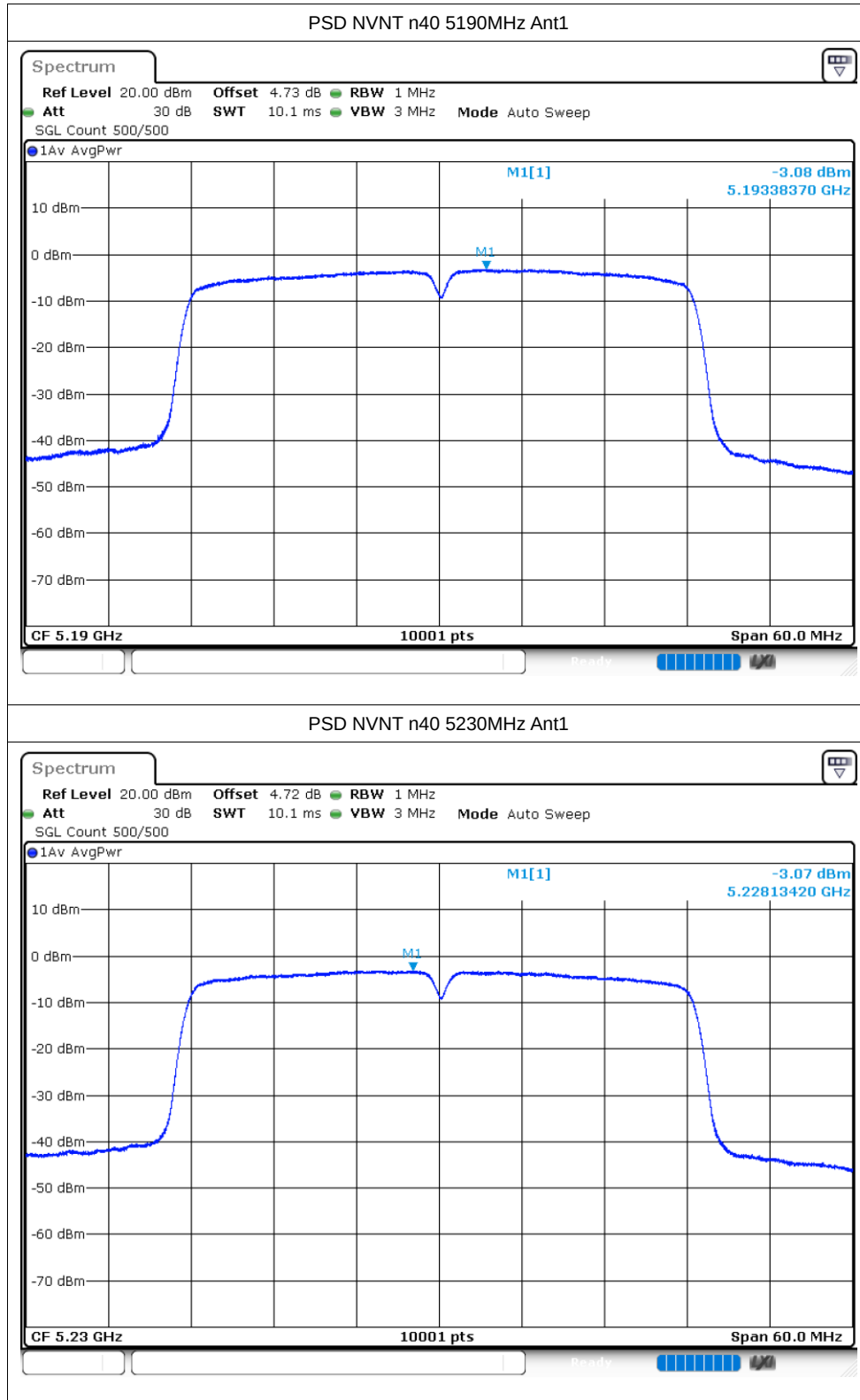


PSD NVNT a 5200MHz Ant1









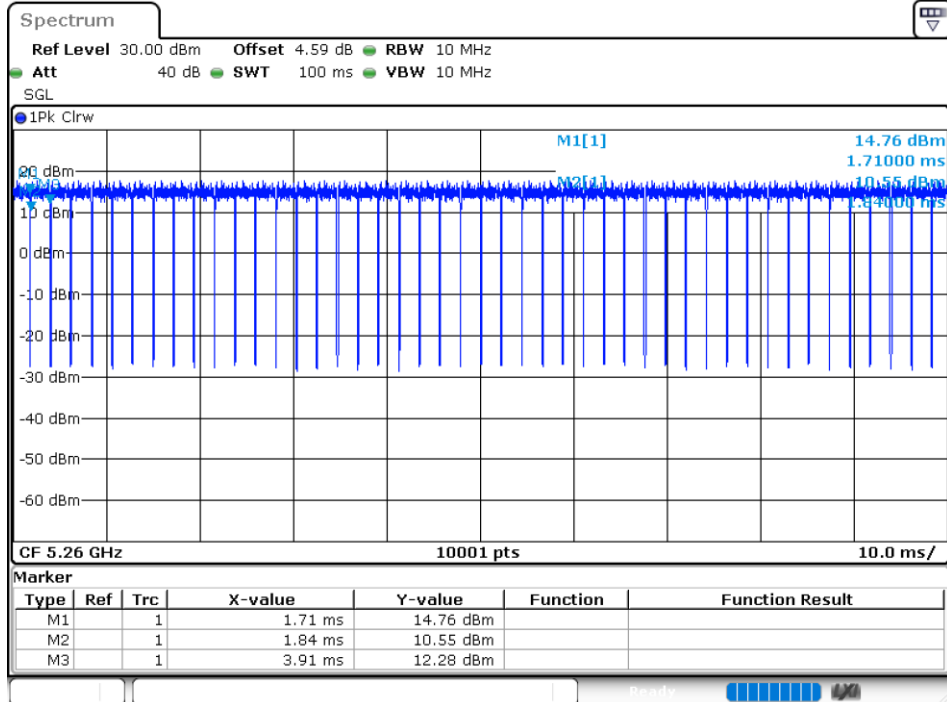
5.3G WIFI

Duty Cycle

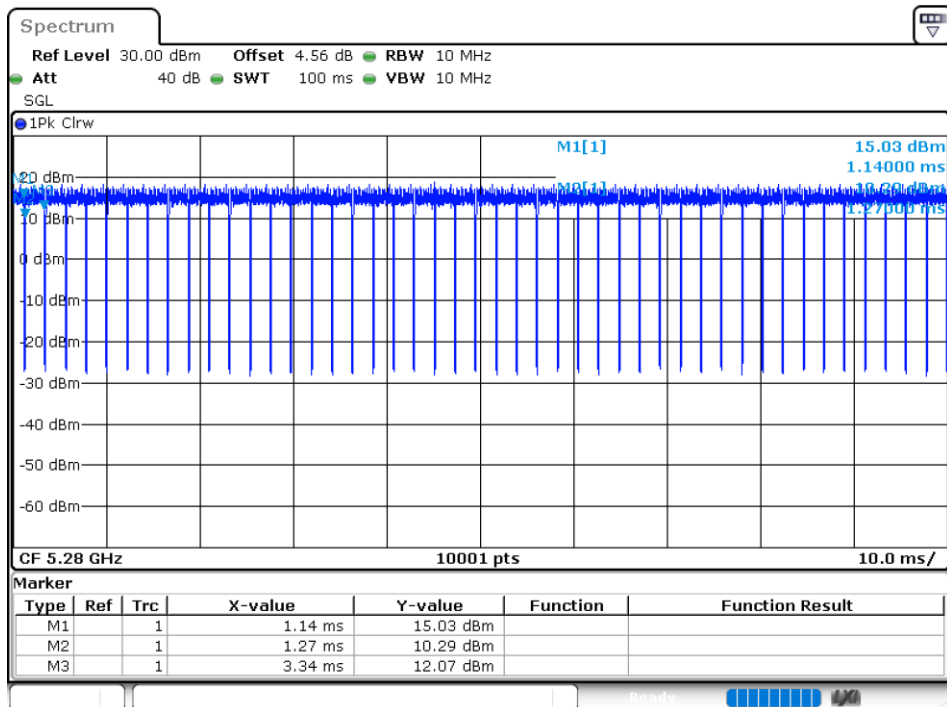
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	94.6	0.24	0.48
NVNT	a	5280	Ant1	94.48	0.25	0.48
NVNT	a	5320	Ant1	94.58	0.24	0.49
NVNT	n20	5260	Ant1	94.12	0.26	0.52
NVNT	n20	5280	Ant1	94.09	0.26	0.52
NVNT	n20	5320	Ant1	94.12	0.26	0.52
NVNT	n40	5270	Ant1	88.84	0.51	1.05
NVNT	n40	5310	Ant1	88.83	0.51	1.06

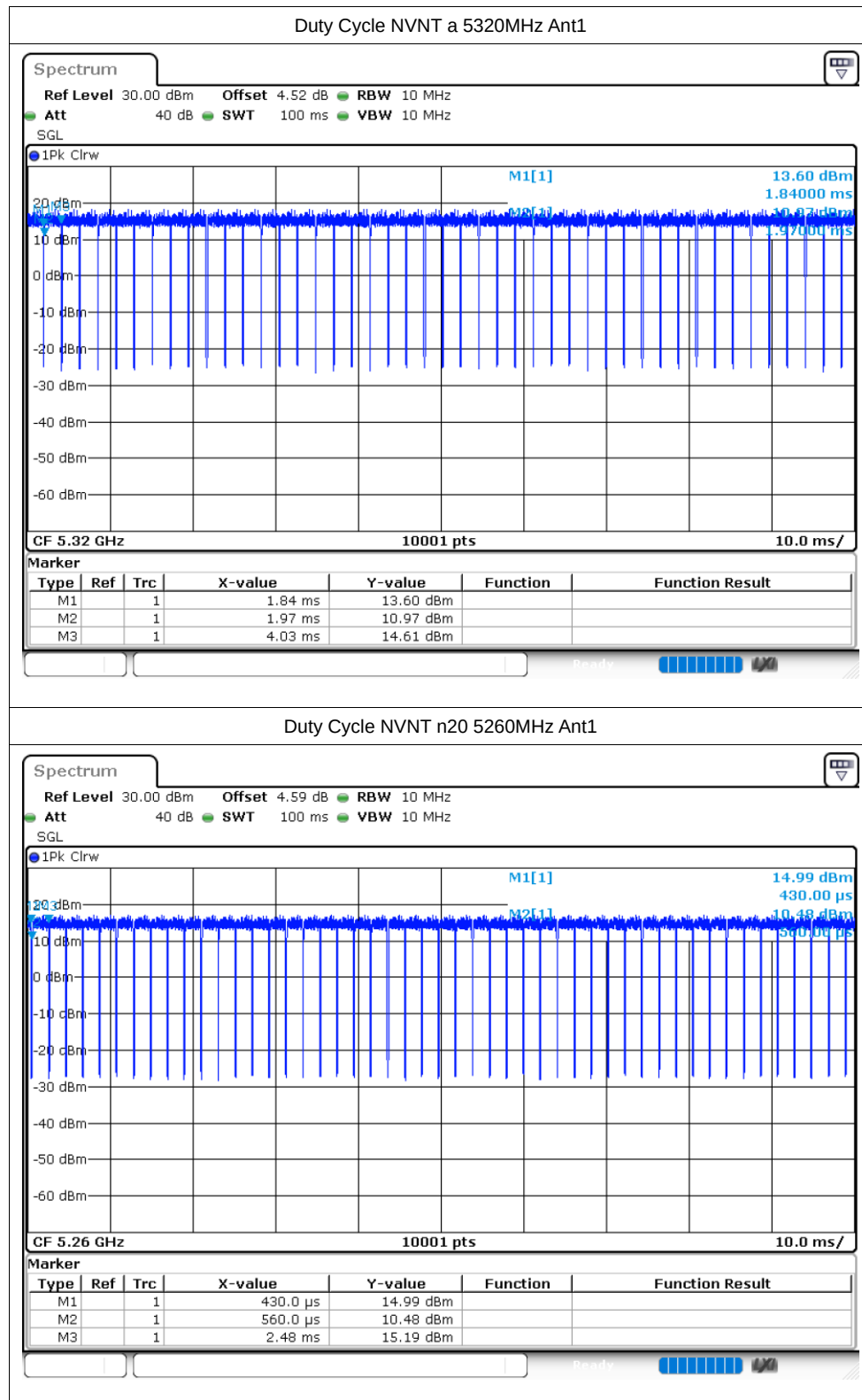
Test Graphs

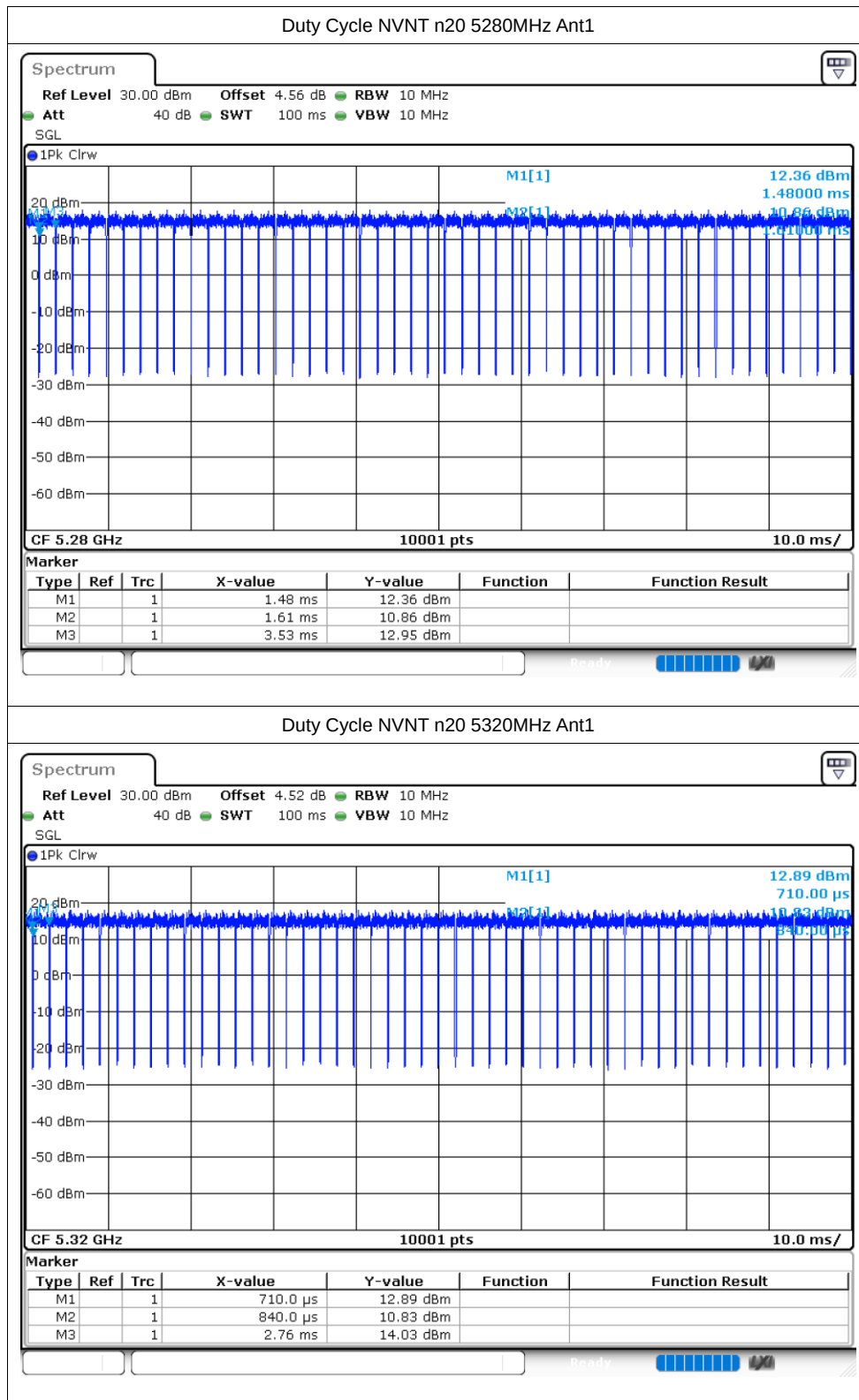
Duty Cycle NVNT a 5260MHz Ant1

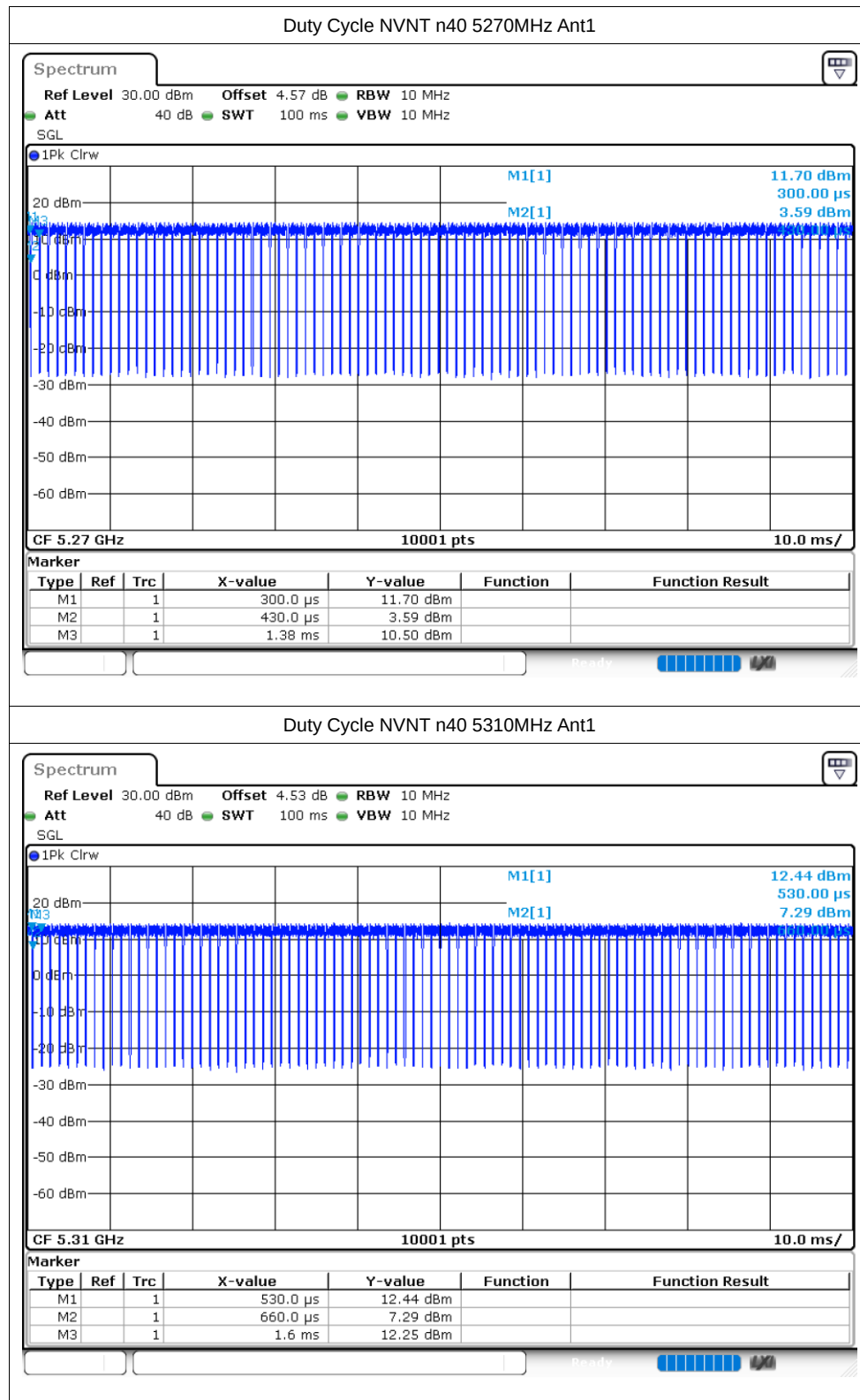


Duty Cycle NVNT a 5280MHz Ant1









Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	11.08	24	Pass
NVNT	a	5280	Ant1	10.96	24	Pass
NVNT	a	5320	Ant1	11.5	24	Pass
NVNT	n20	5260	Ant1	10.99	24	Pass
NVNT	n20	5280	Ant1	11.15	24	Pass
NVNT	n20	5320	Ant1	11.49	24	Pass
NVNT	n40	5270	Ant1	11.3	24	Pass
NVNT	n40	5310	Ant1	11.36	24	Pass

Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	20.748	Pass
NVNT	a	5280	Ant1	21.024	Pass
NVNT	a	5320	Ant1	21.267	Pass
NVNT	n20	5260	Ant1	21.807	Pass
NVNT	n20	5280	Ant1	21.231	Pass
NVNT	n20	5320	Ant1	20.895	Pass
NVNT	n40	5270	Ant1	39.786	Pass
NVNT	n40	5310	Ant1	39.168	Pass

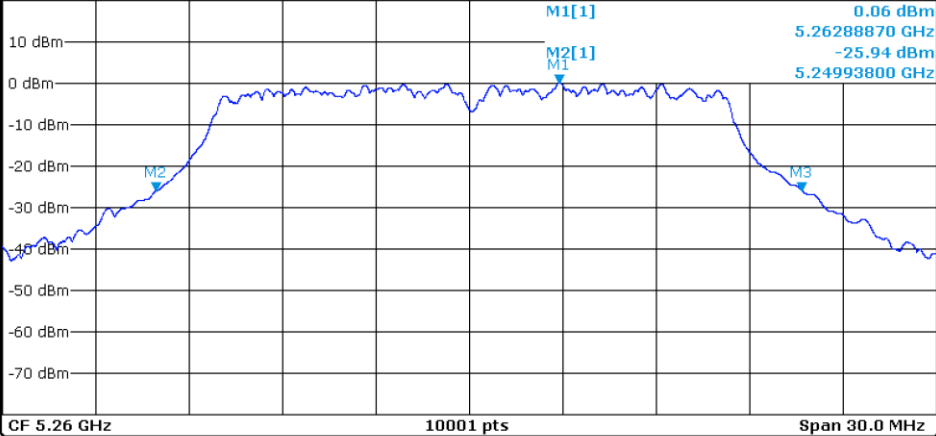
Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.59 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

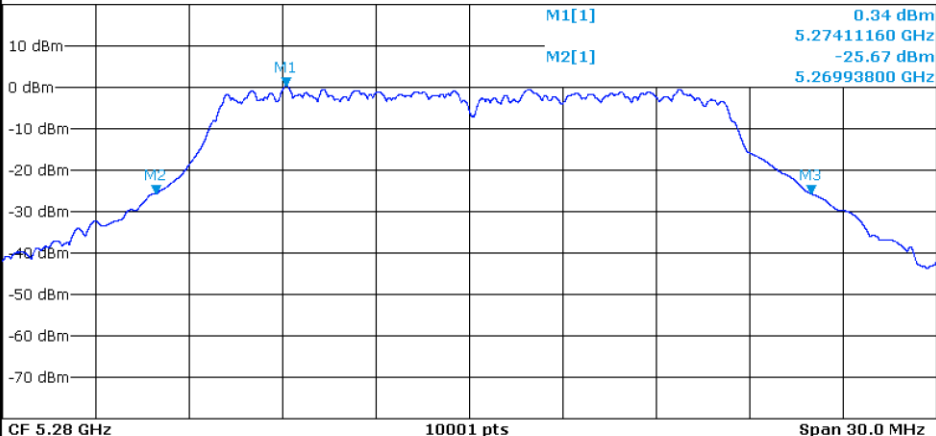


-26dB Bandwidth NVNT a 5280MHz Ant1

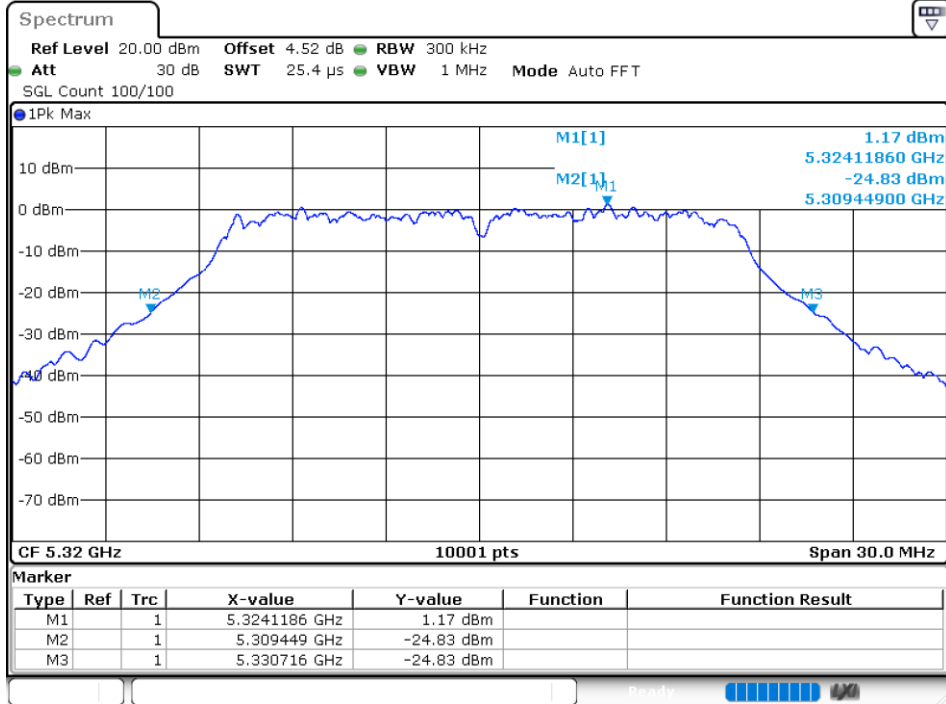
Spectrum

Ref Level 20.00 dBm Offset 4.56 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

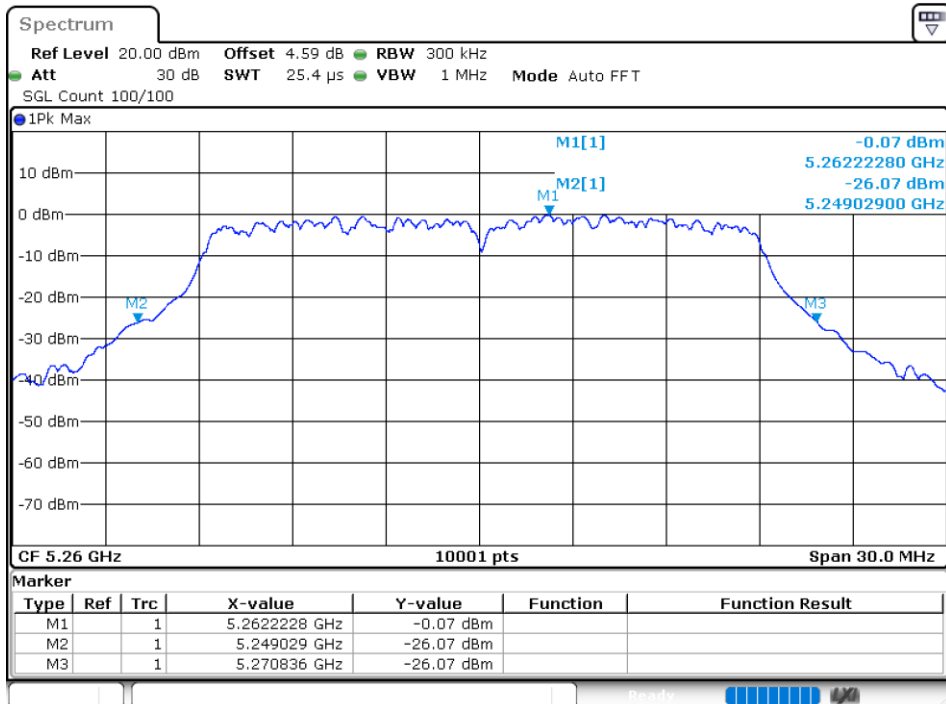
1Pk Max

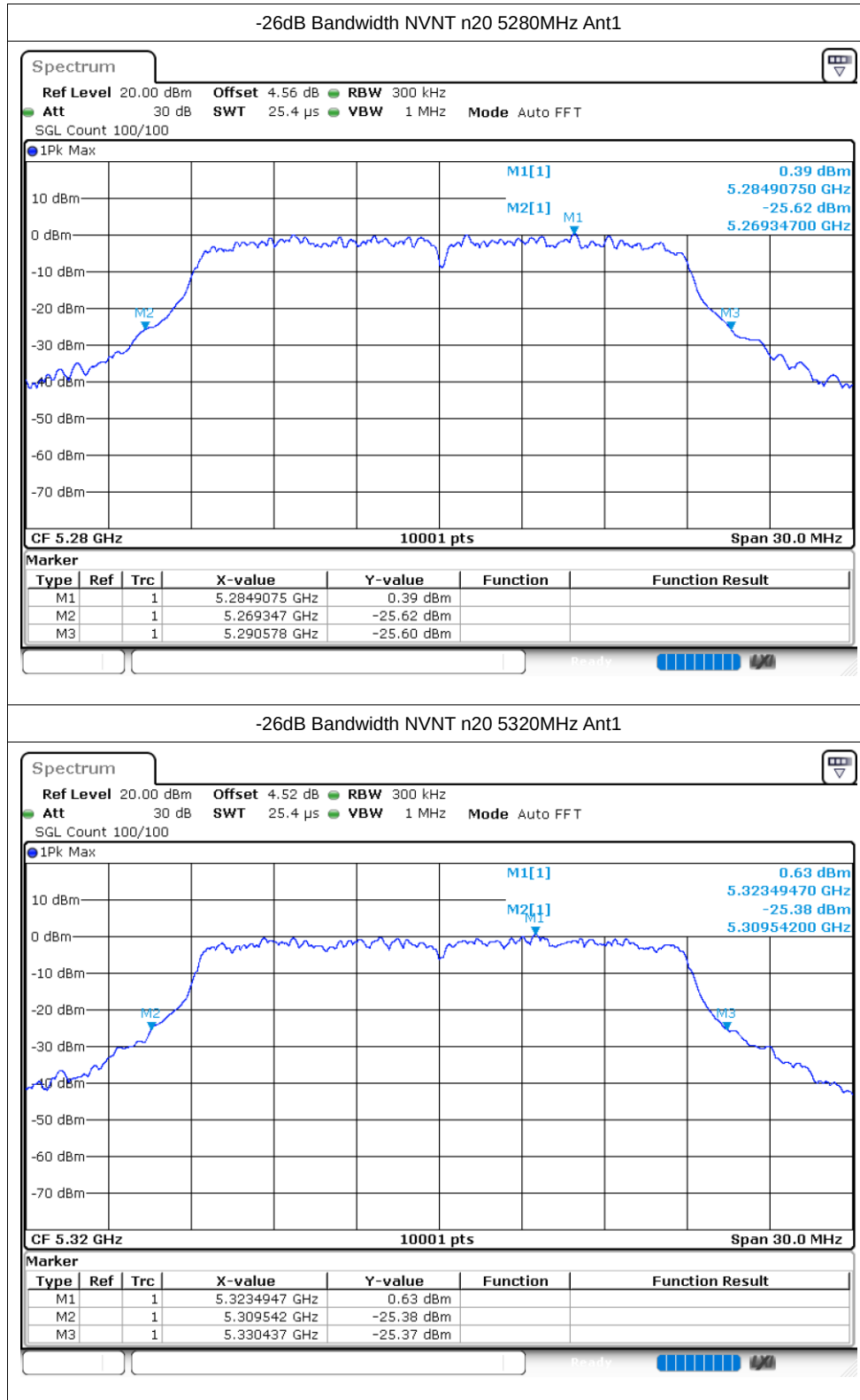


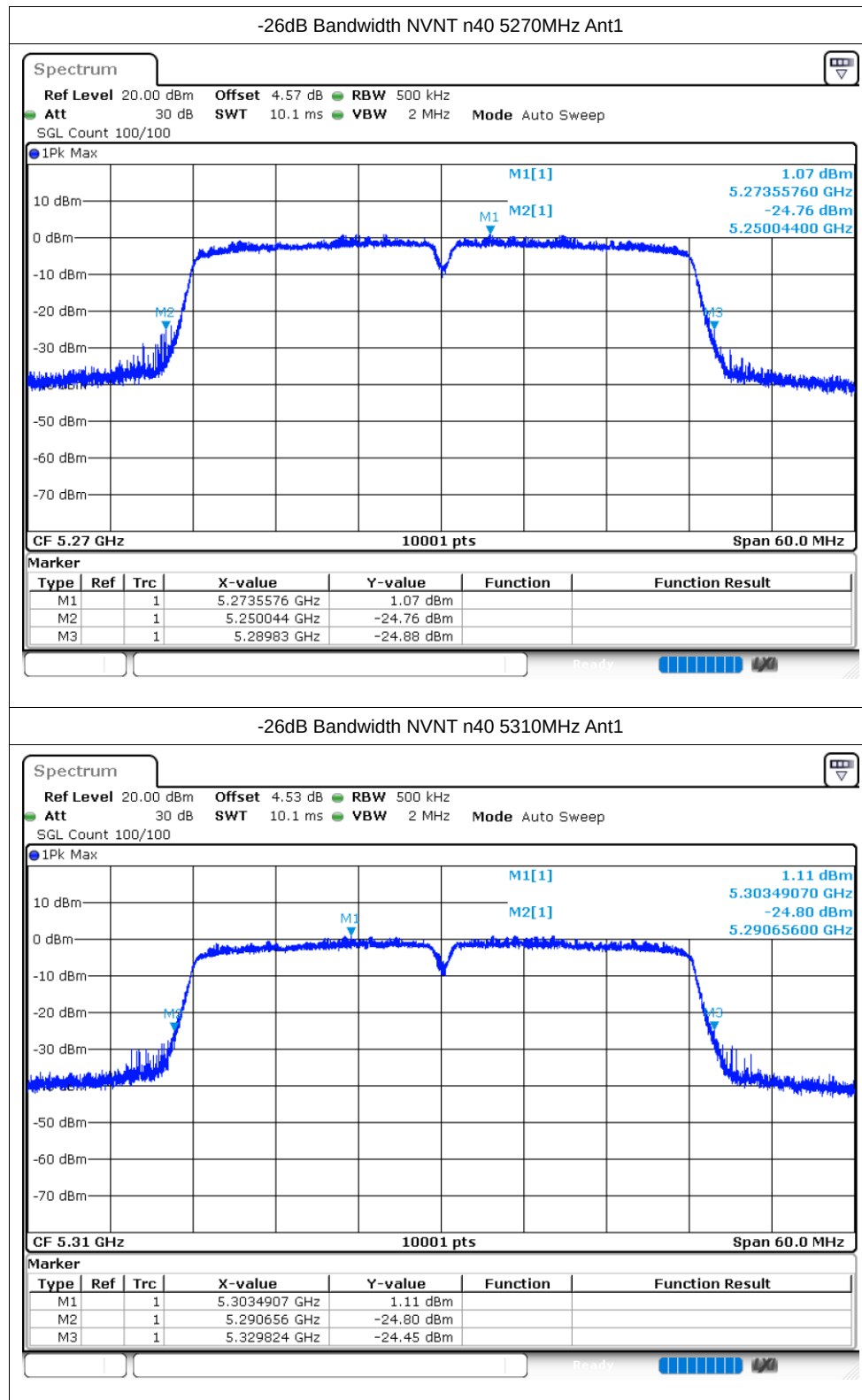
-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1





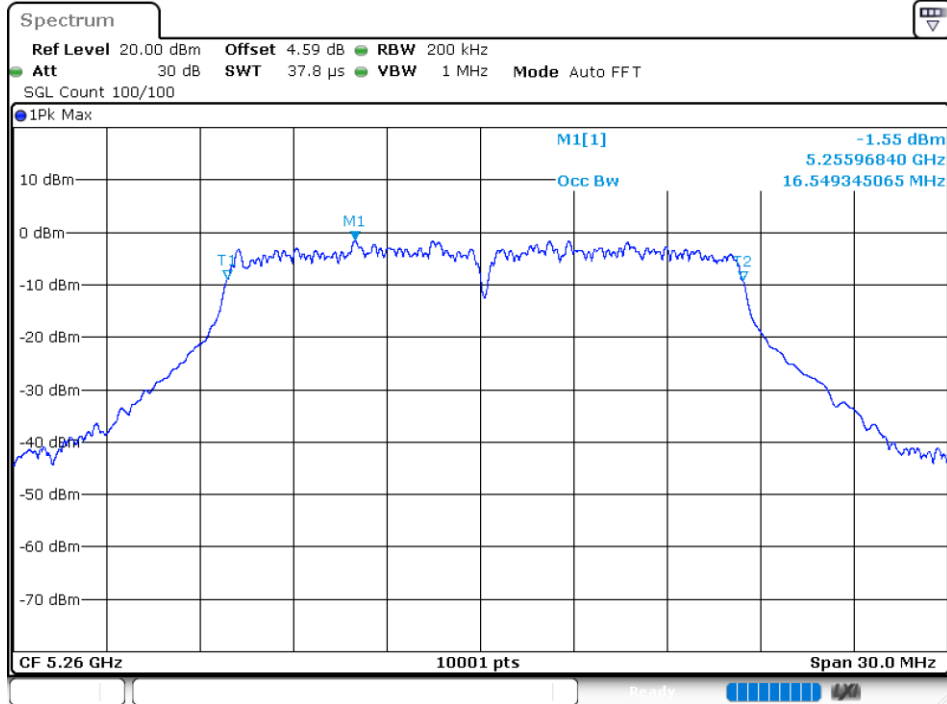


Occupied Channel Bandwidth

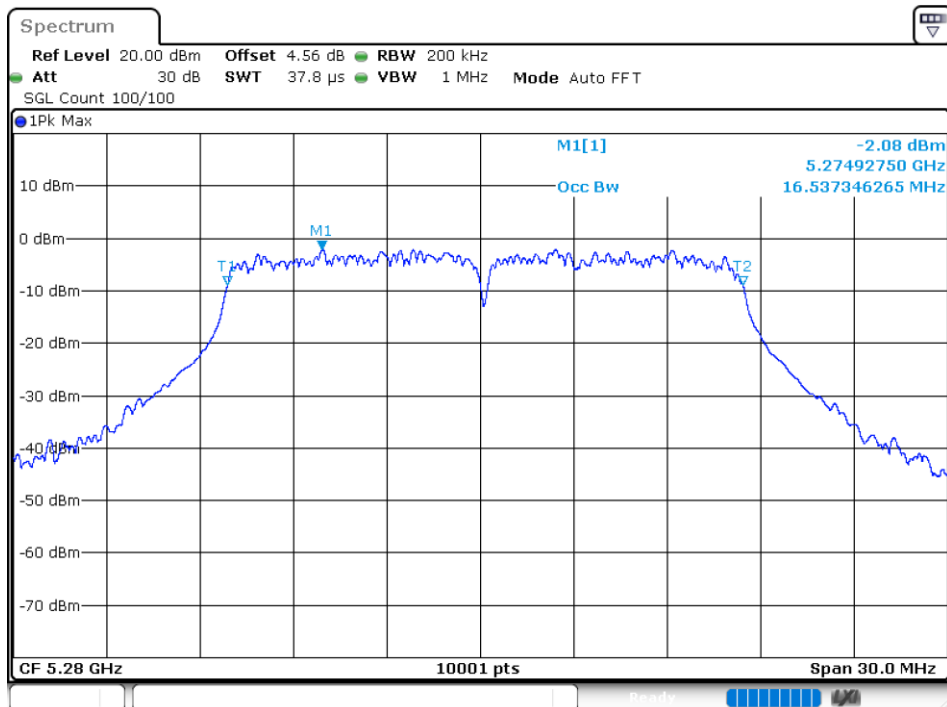
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.549
NVNT	a	5280	Ant1	16.537
NVNT	a	5320	Ant1	16.645
NVNT	n20	5260	Ant1	17.632
NVNT	n20	5280	Ant1	17.716
NVNT	n20	5320	Ant1	17.86
NVNT	n40	5270	Ant1	35.822
NVNT	n40	5310	Ant1	35.828

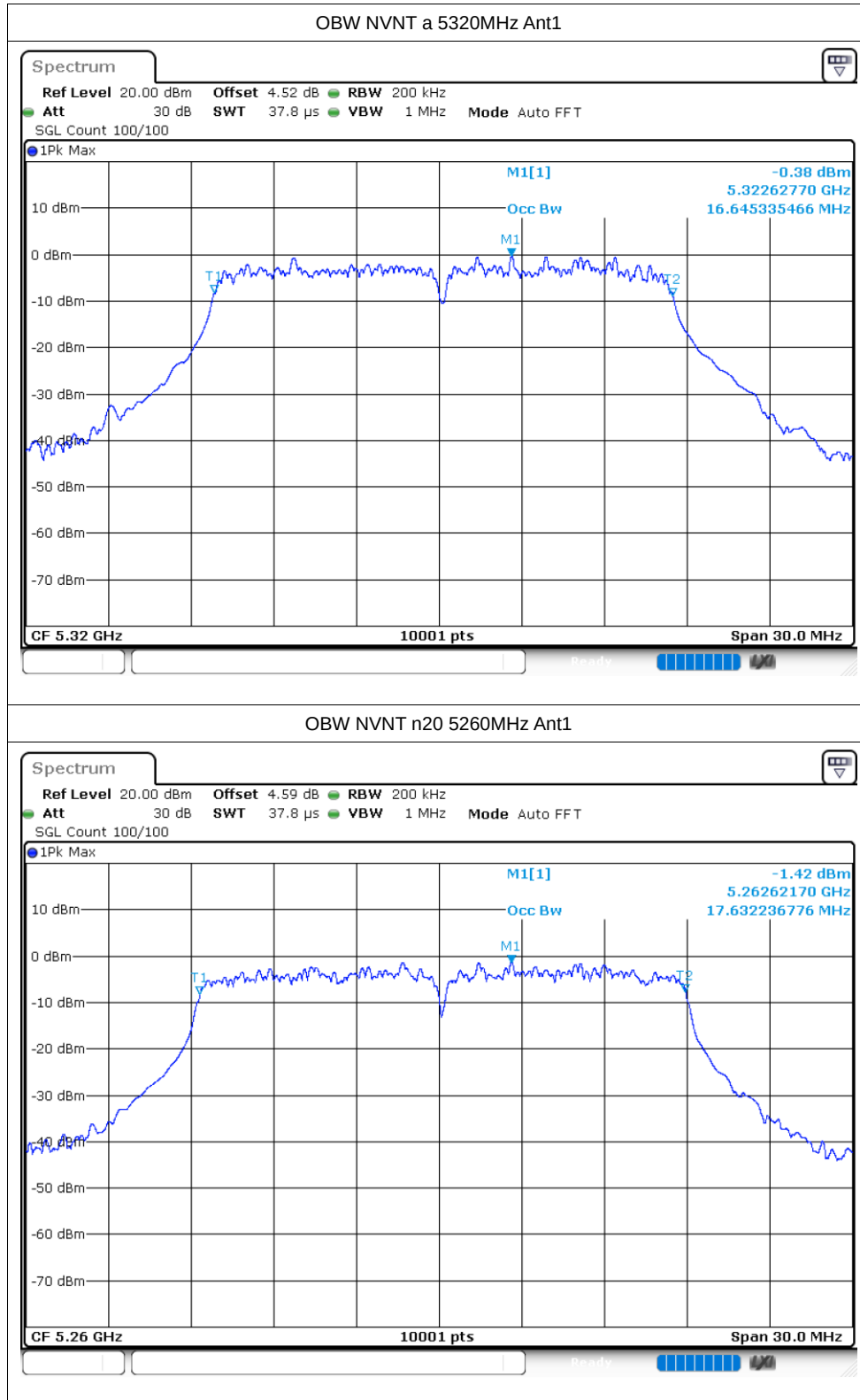
Test Graphs

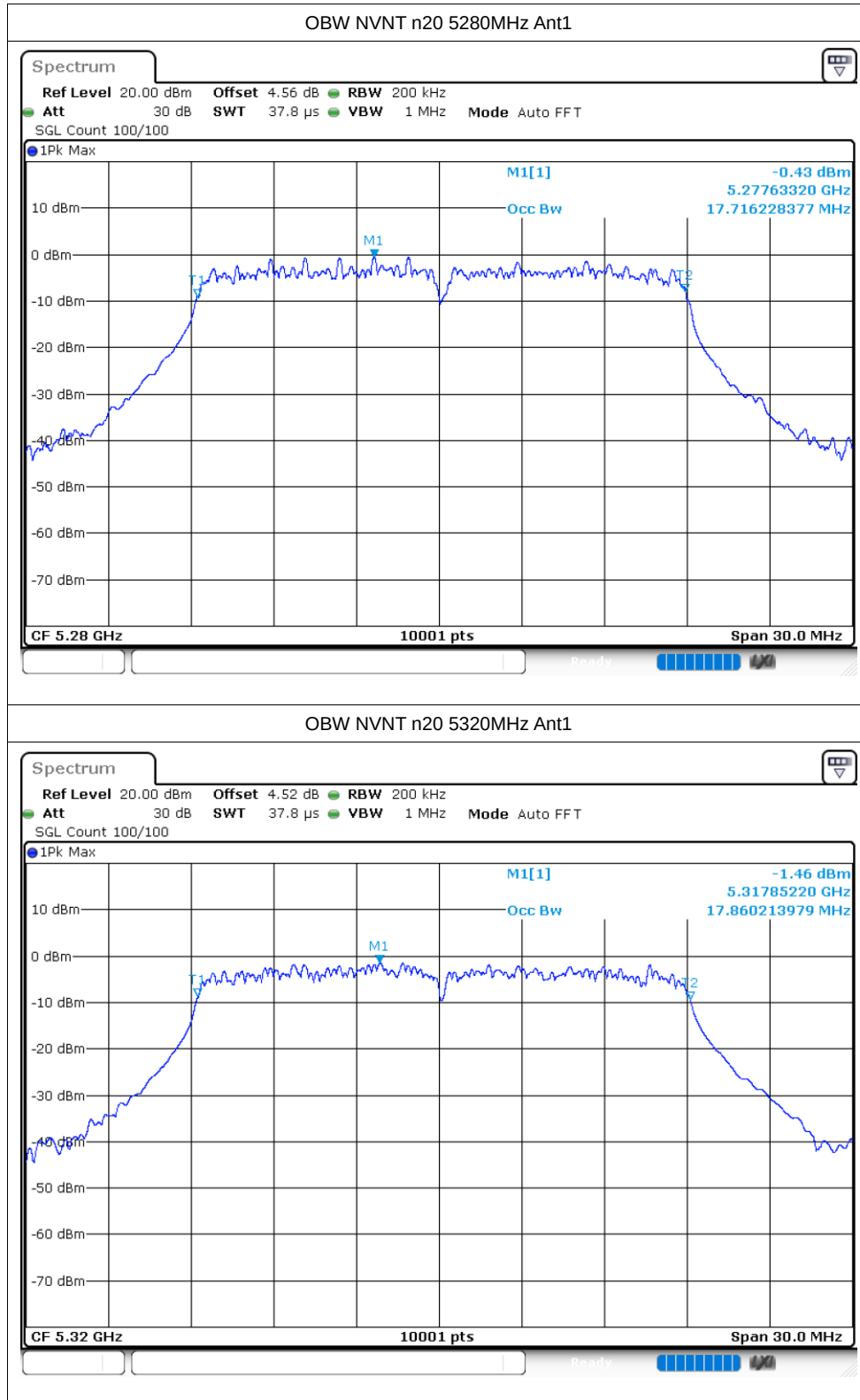
OBW NVNT a 5260MHz Ant1

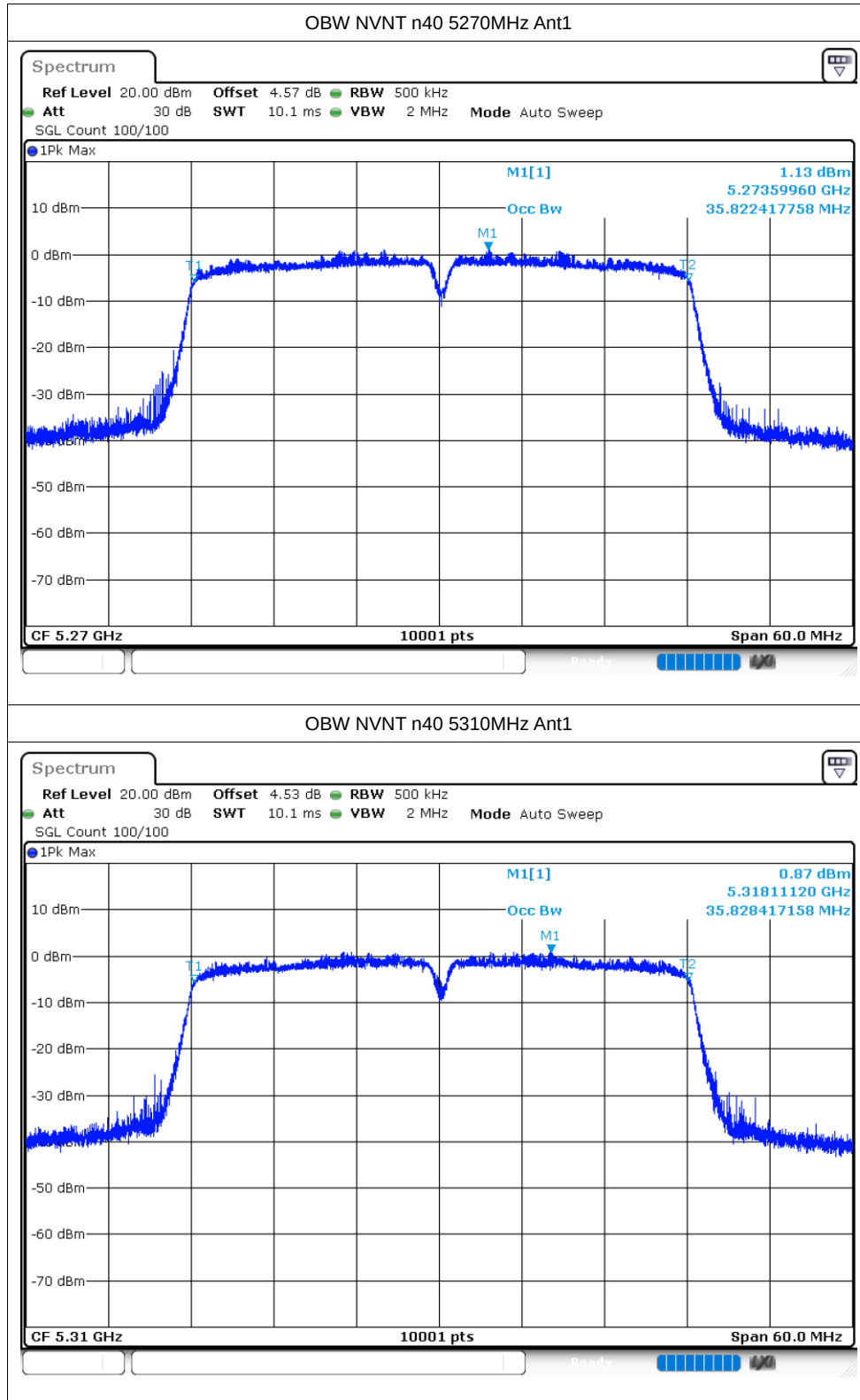


OBW NVNT a 5280MHz Ant1







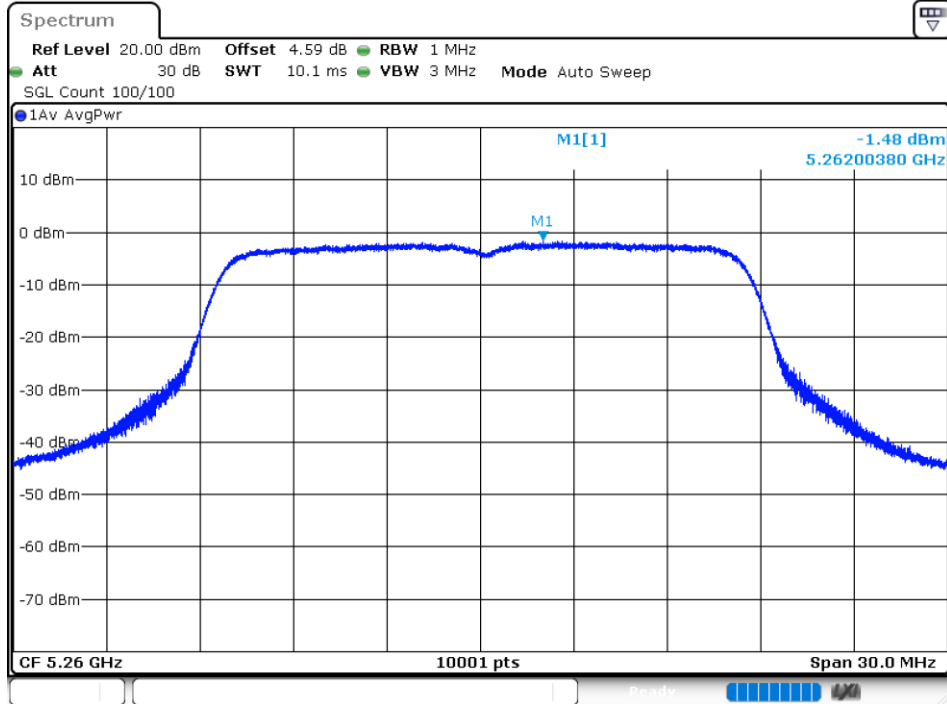


Maximum Power Spectral Density Level

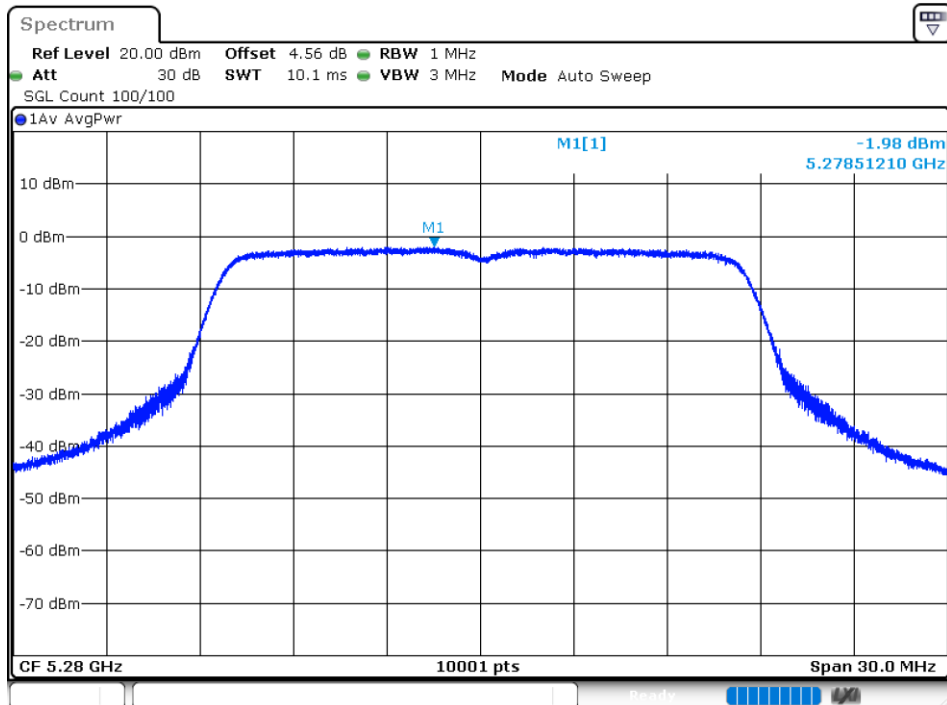
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-1.48	0.24	-1.24	11	Pass
NVNT	a	5280	Ant1	-1.98	0.25	-1.73	11	Pass
NVNT	a	5320	Ant1	-1.38	0.24	-1.14	11	Pass
NVNT	n20	5260	Ant1	-2.04	0.26	-1.78	11	Pass
NVNT	n20	5280	Ant1	-1.98	0.26	-1.72	11	Pass
NVNT	n20	5320	Ant1	-1.8	0.26	-1.54	11	Pass
NVNT	n40	5270	Ant1	-4.88	0.51	-4.37	11	Pass
NVNT	n40	5310	Ant1	-4.53	0.51	-4.02	11	Pass

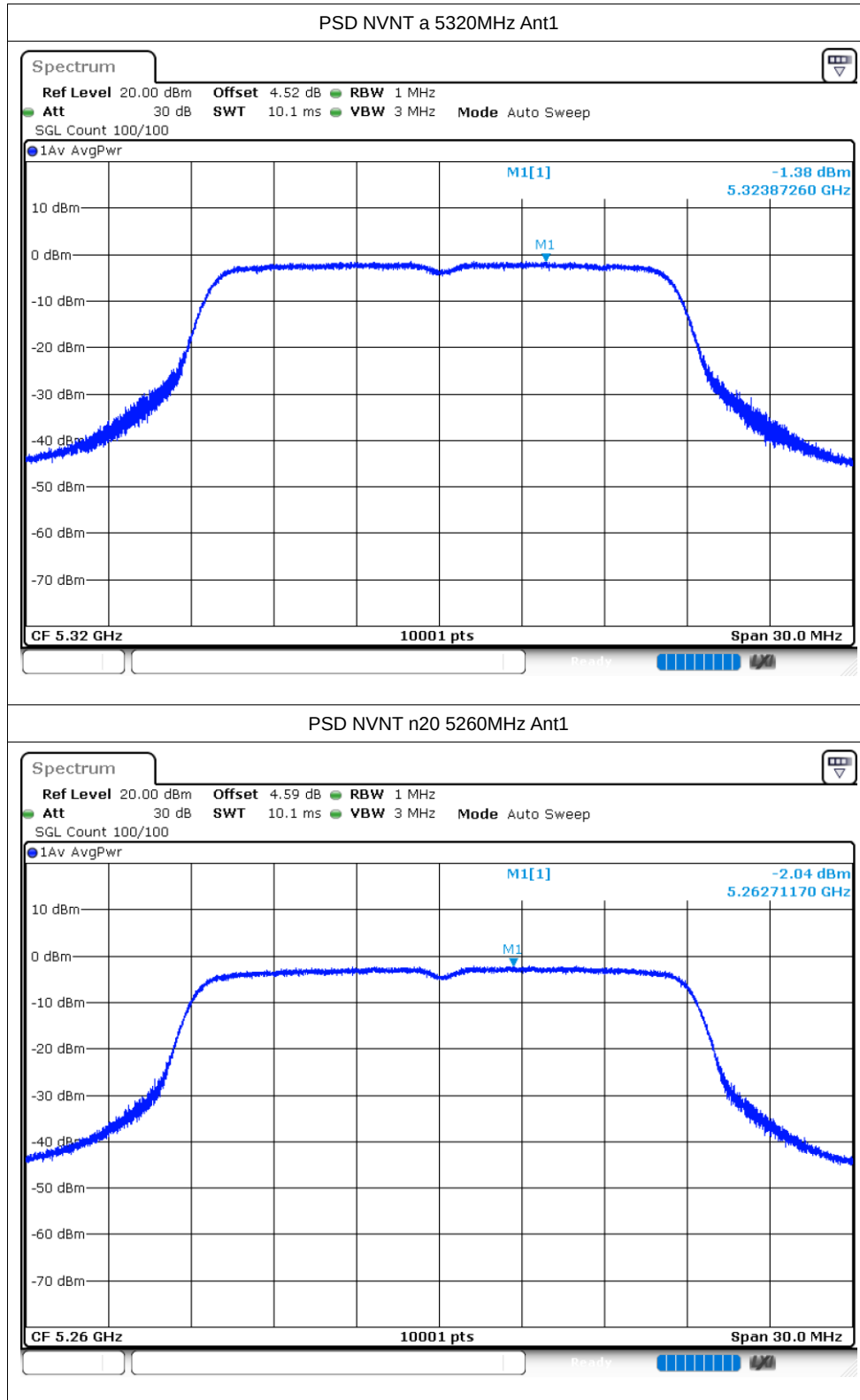
Test Graphs

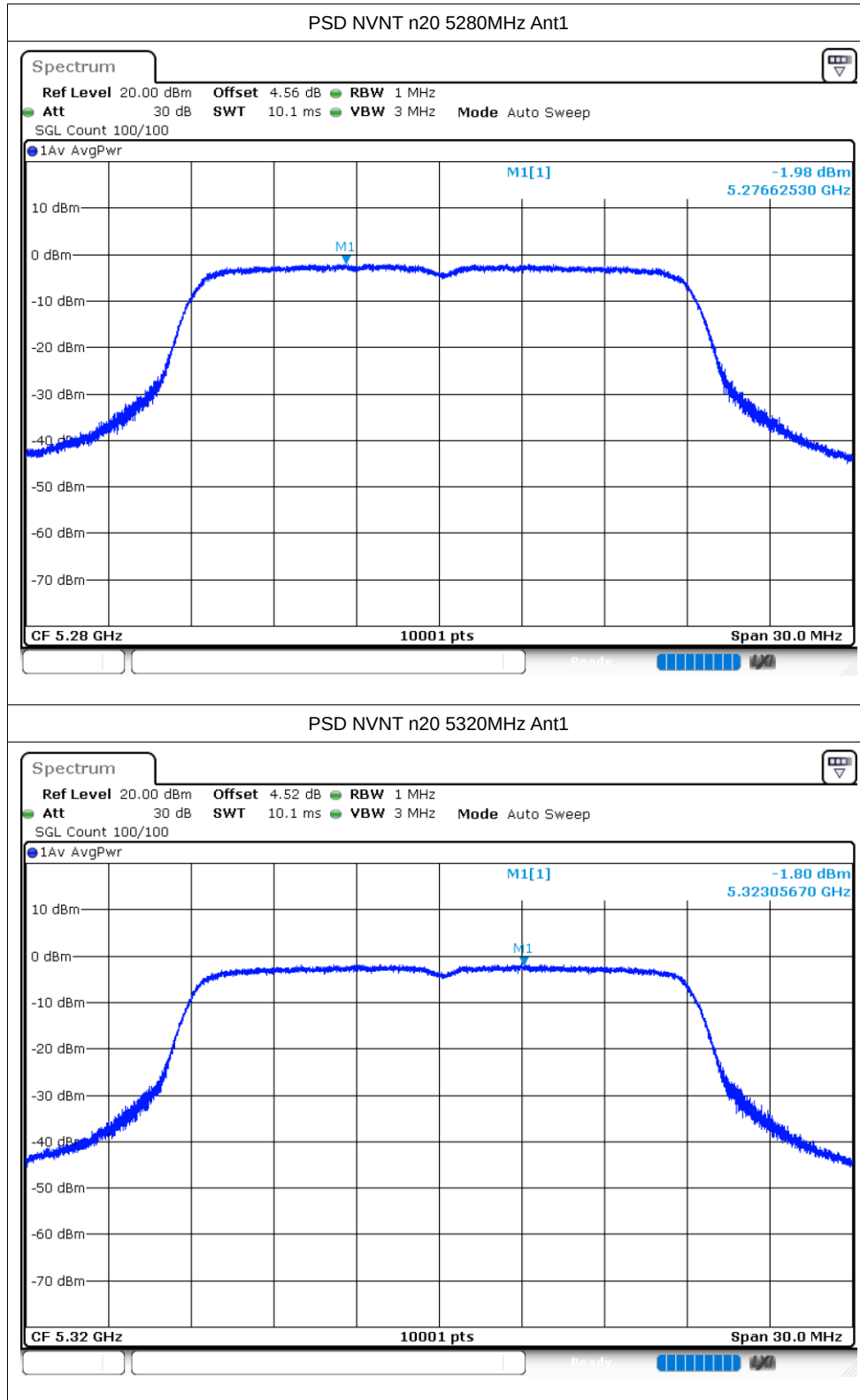
PSD NVNT a 5260MHz Ant1

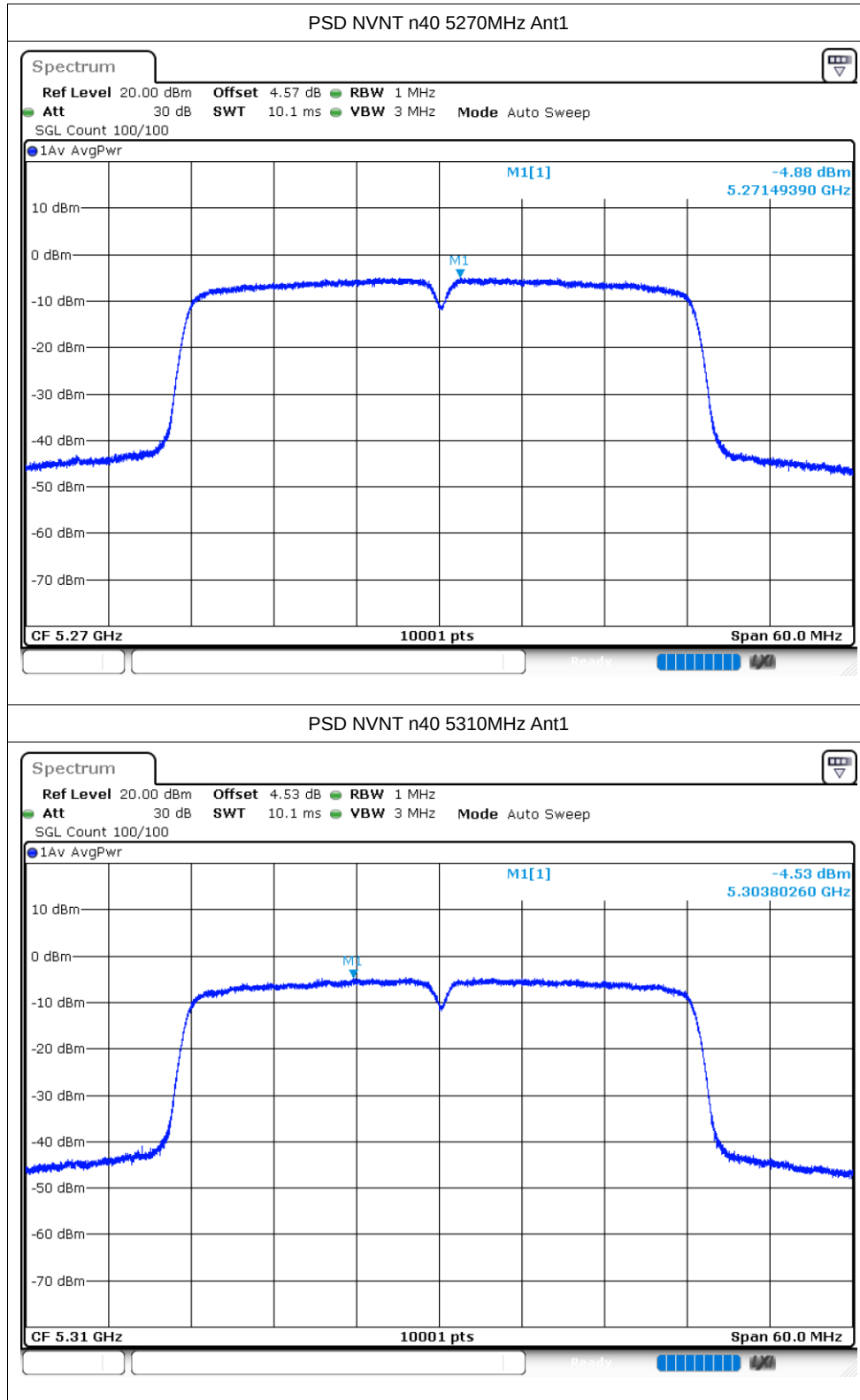


PSD NVNT a 5280MHz Ant1









5.6G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	94.6	0.24	0.48
NVNT	a	5600	Ant1	94.48	0.25	0.48
NVNT	a	5700	Ant1	94.53	0.24	0.48
NVNT	n20	5500	Ant1	94.12	0.26	0.52
NVNT	n20	5600	Ant1	94.24	0.26	0.52
NVNT	n20	5700	Ant1	94.12	0.26	0.52
NVNT	n40	5510	Ant1	88.84	0.51	1.06
NVNT	n40	5590	Ant1	88.73	0.52	1.06
NVNT	n40	5670	Ant1	88.84	0.51	1.05

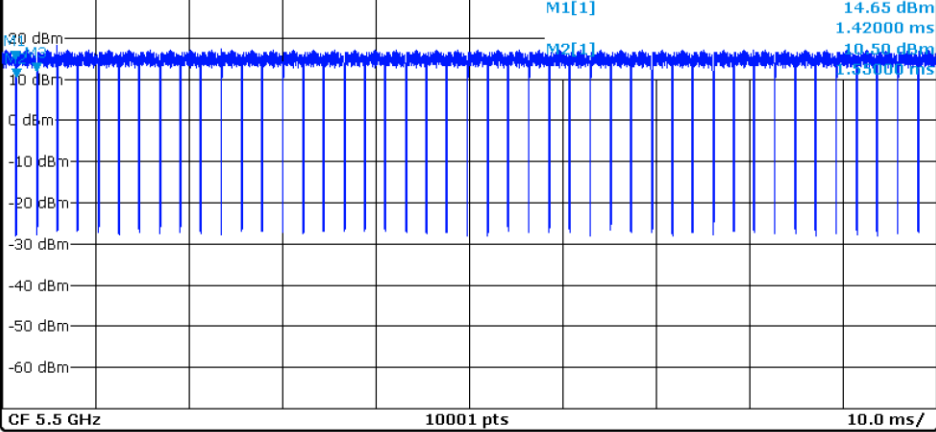
Test Graphs

Duty Cycle NVNT a 5500MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.55 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw

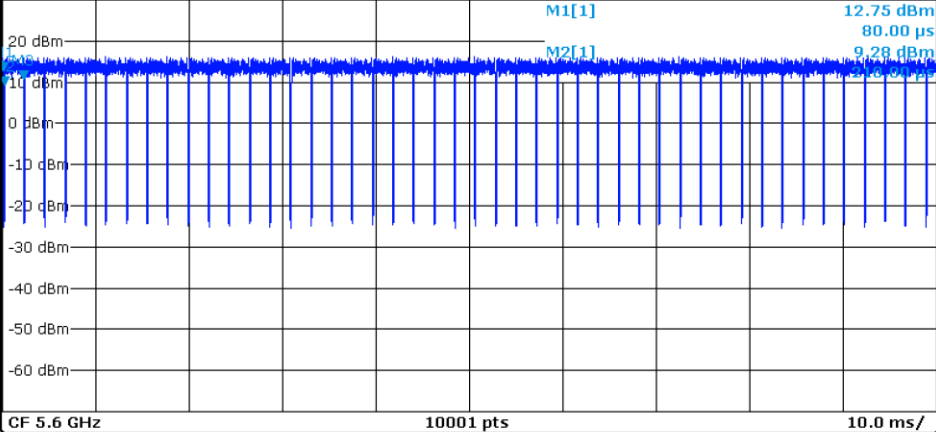


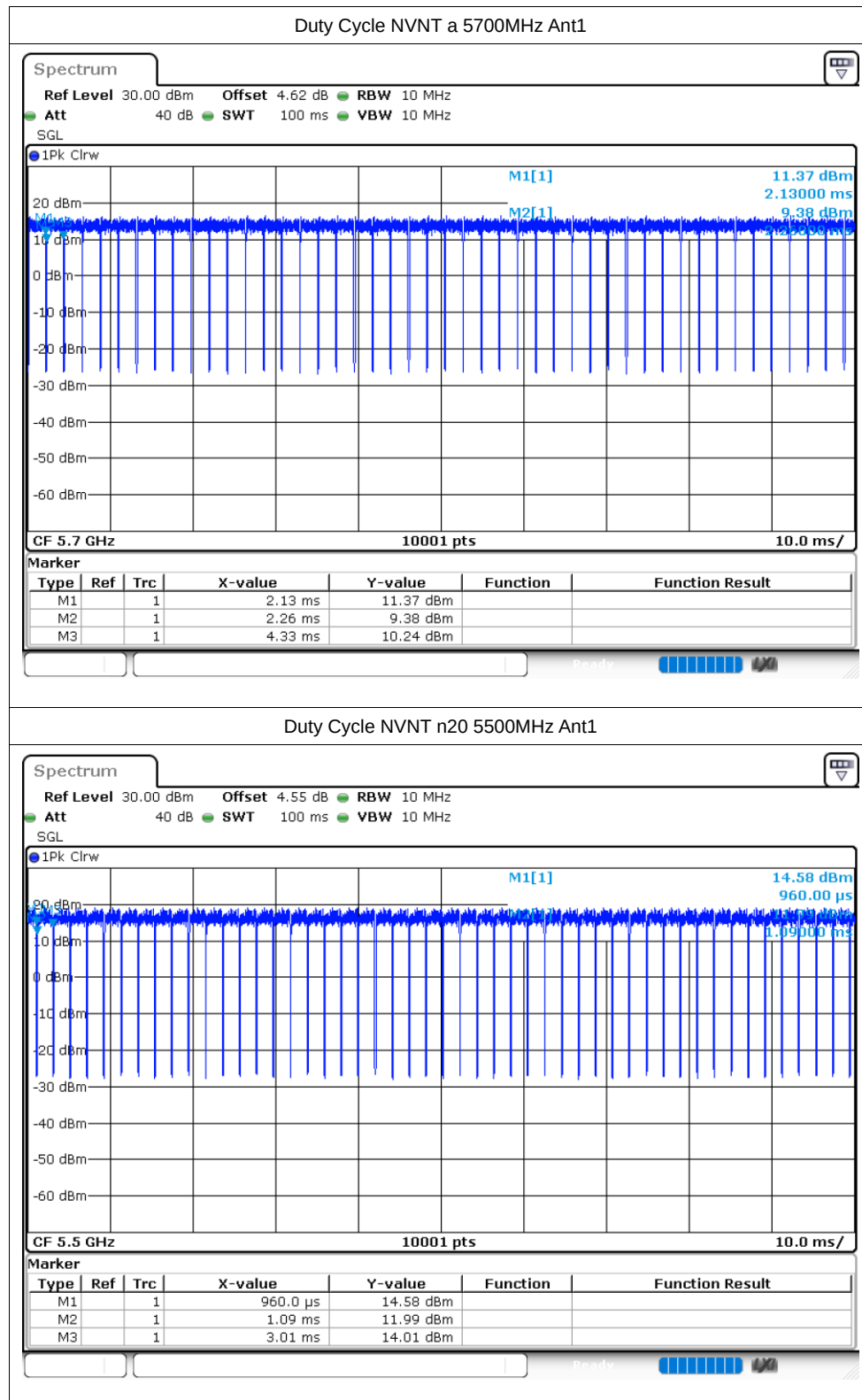
Duty Cycle NVNT a 5600MHz Ant1

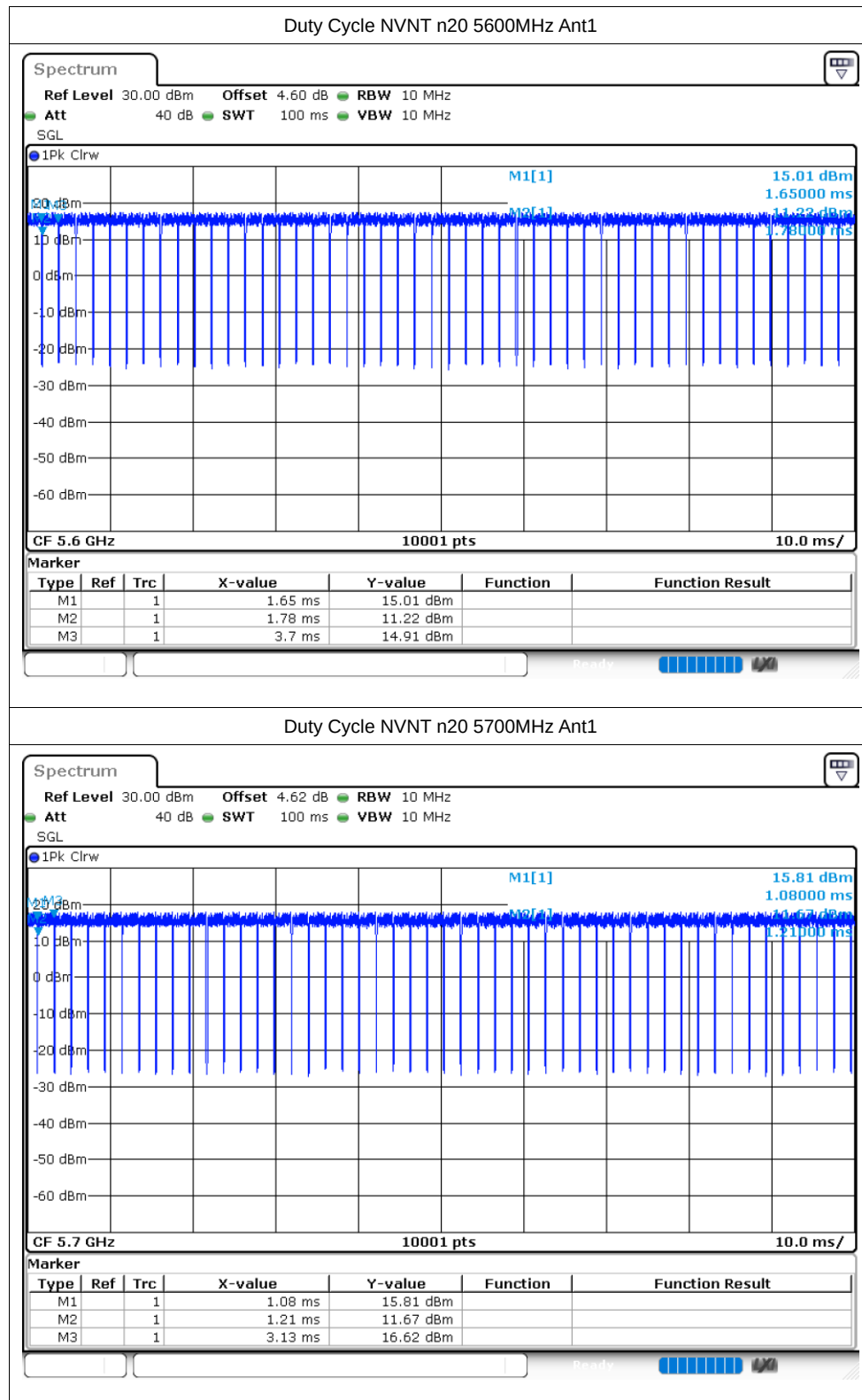
Spectrum

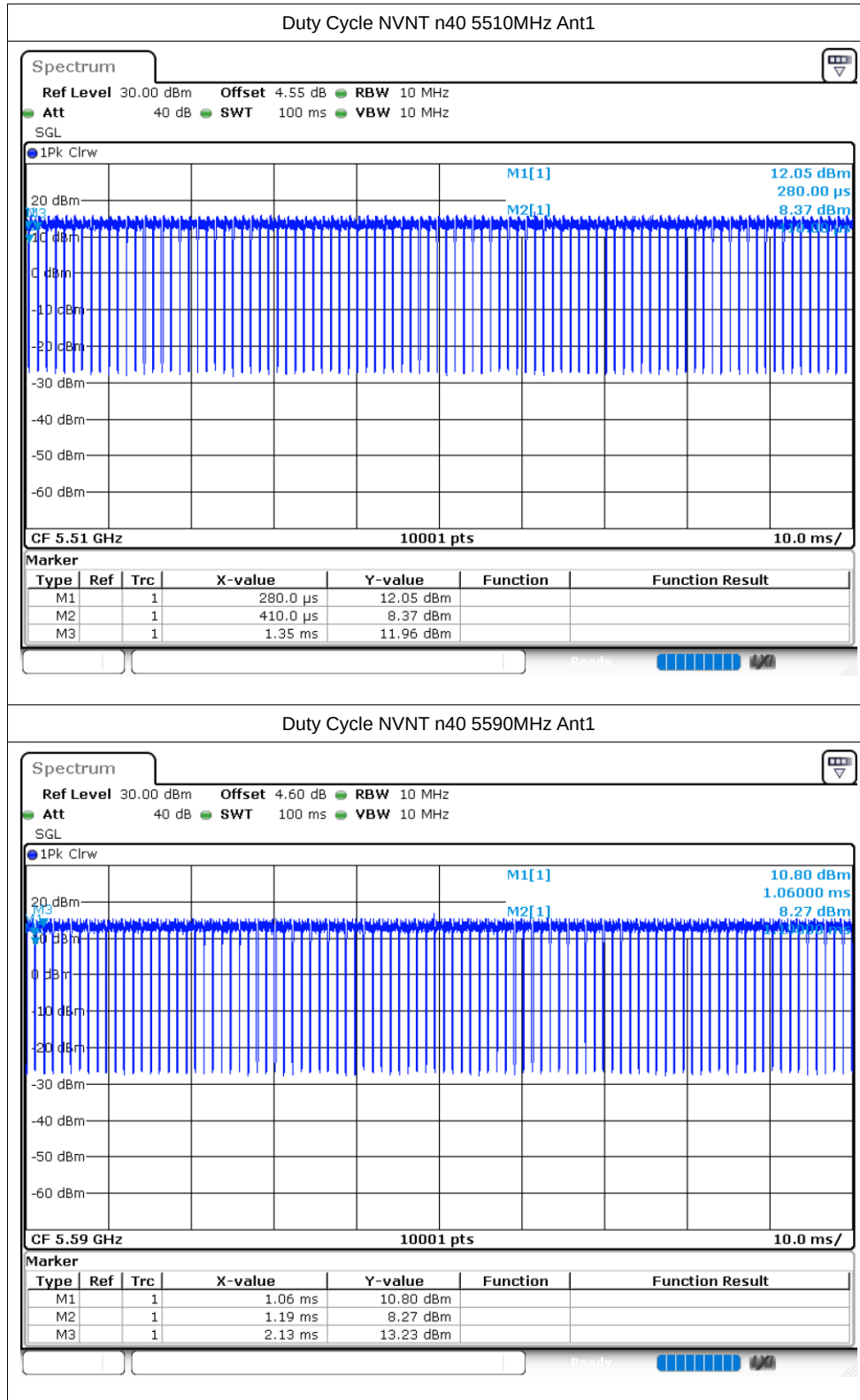
Ref Level 30.00 dBm Offset 4.60 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL

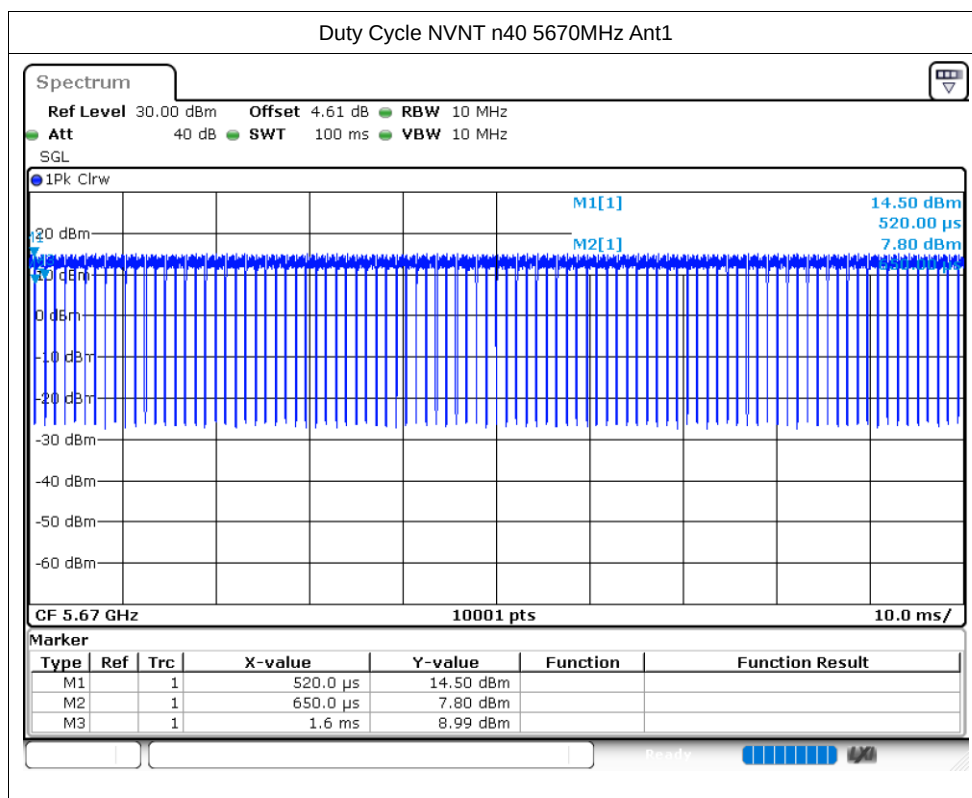
1Pk Clrw











Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	10.39	24	Pass
NVNT	a	5600	Ant1	9.16	24	Pass
NVNT	a	5700	Ant1	9.71	24	Pass
NVNT	n20	5500	Ant1	11.66	24	Pass
NVNT	n20	5600	Ant1	11.2	24	Pass
NVNT	n20	5700	Ant1	11.83	24	Pass
NVNT	n40	5510	Ant1	11.77	24	Pass
NVNT	n40	5590	Ant1	11.68	24	Pass
NVNT	n40	5670	Ant1	11.47	24	Pass

Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	20.664	Pass
NVNT	a	5600	Ant1	20.964	Pass
NVNT	a	5700	Ant1	21.534	Pass
NVNT	n20	5500	Ant1	20.604	Pass
NVNT	n20	5600	Ant1	22.497	Pass
NVNT	n20	5700	Ant1	21.984	Pass
NVNT	n40	5510	Ant1	38.778	Pass
NVNT	n40	5590	Ant1	39.102	Pass
NVNT	n40	5670	Ant1	38.91	Pass