

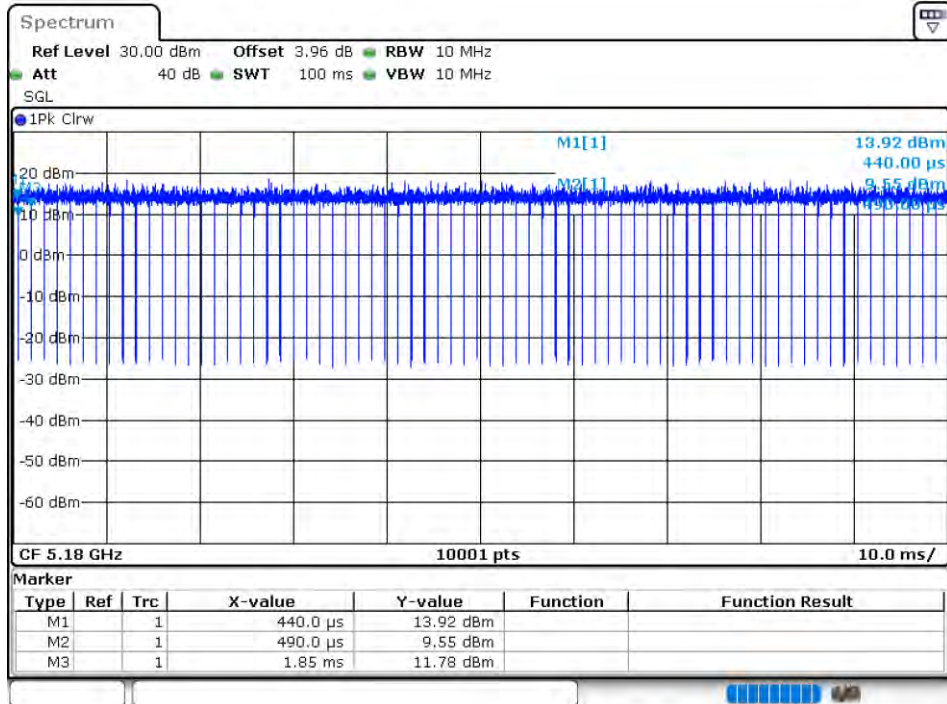
5.2G:

Duty Cycle

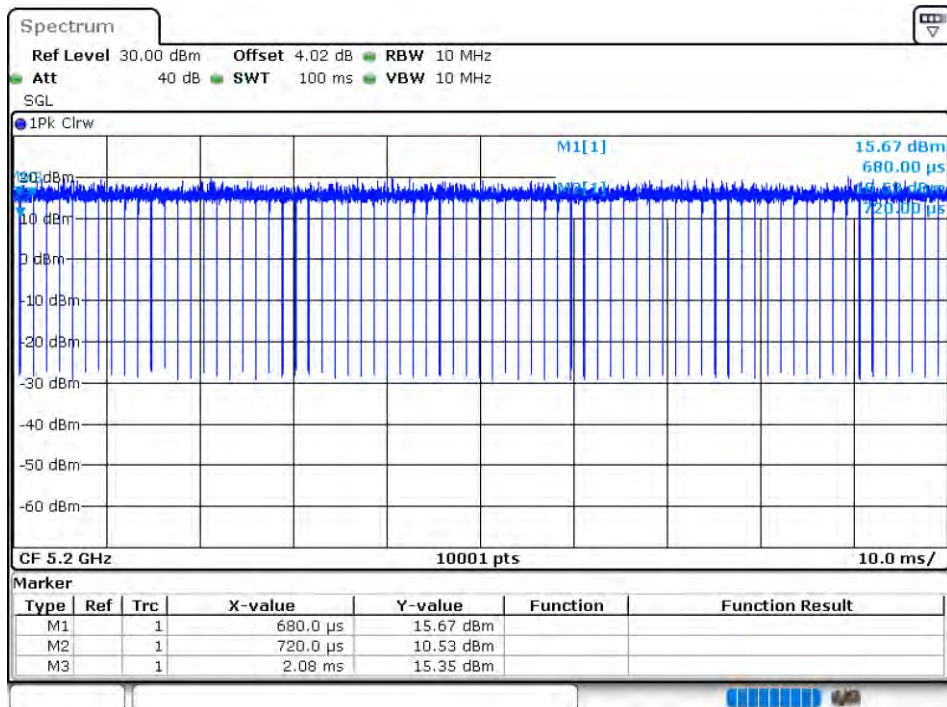
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.56	0.11	0.74
NVNT	a	5200	Ant1	97.57	0.11	0.74
NVNT	a	5240	Ant1	97.57	0.11	0.74
NVNT	a	5180	Ant2	97.57	0.11	0.74
NVNT	a	5200	Ant2	97.59	0.11	0.74
NVNT	a	5240	Ant2	97.58	0.11	0.74
NVNT	n20	5180	Ant1	97.41	0.11	0.79
NVNT	n20	5200	Ant1	97.39	0.11	0.79
NVNT	n20	5240	Ant1	97.39	0.11	0.79
NVNT	n20	5180	Ant2	97.41	0.11	0.79
NVNT	n20	5200	Ant2	97.45	0.11	0.78
NVNT	n20	5240	Ant2	97.42	0.11	0.79
NVNT	n40	5190	Ant1	96.68	0.15	1.59
NVNT	n40	5230	Ant1	96.68	0.15	1.59
NVNT	n40	5190	Ant2	96.73	0.14	1.59
NVNT	n40	5230	Ant2	96.79	0.14	1.56

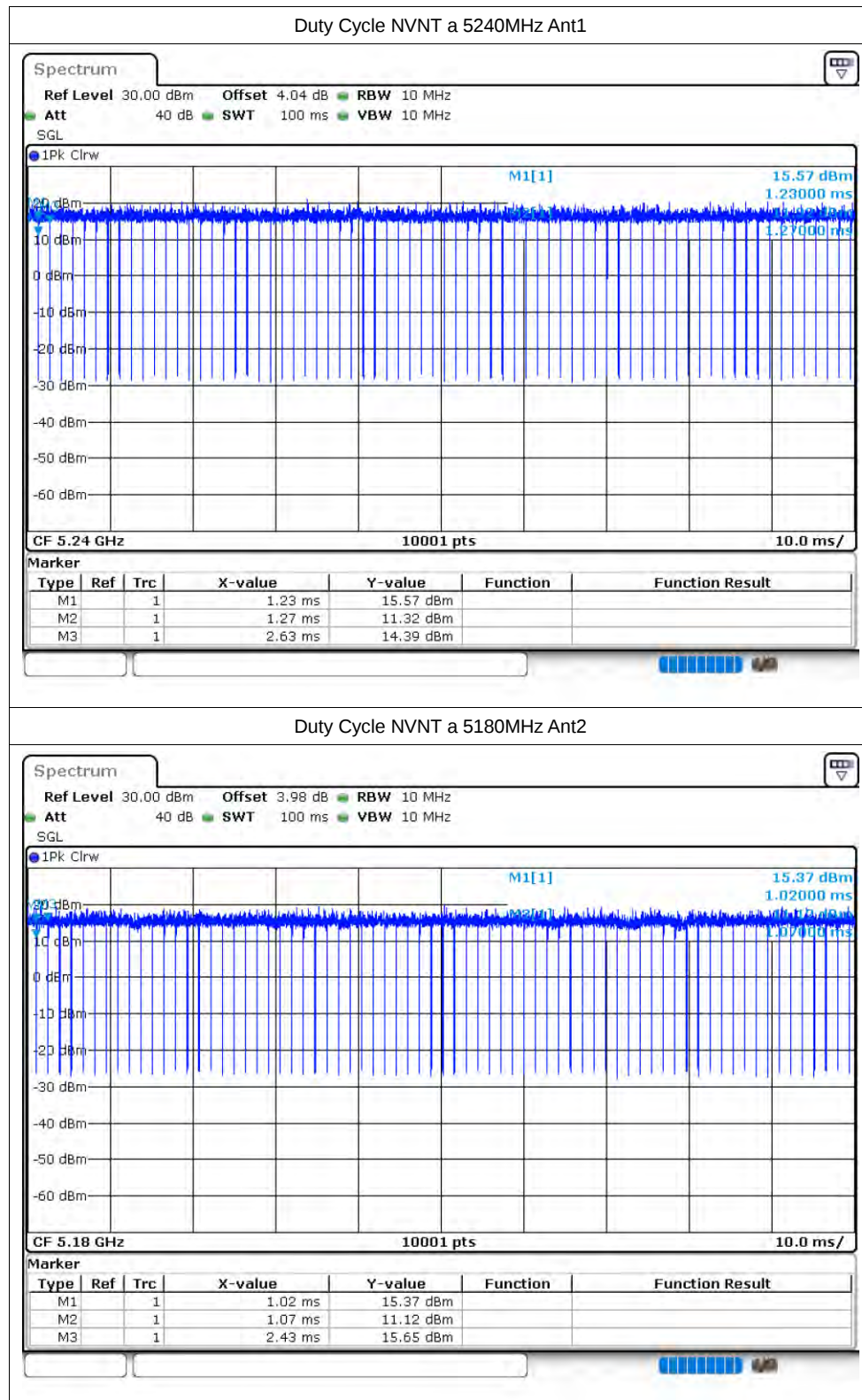
Test Graphs

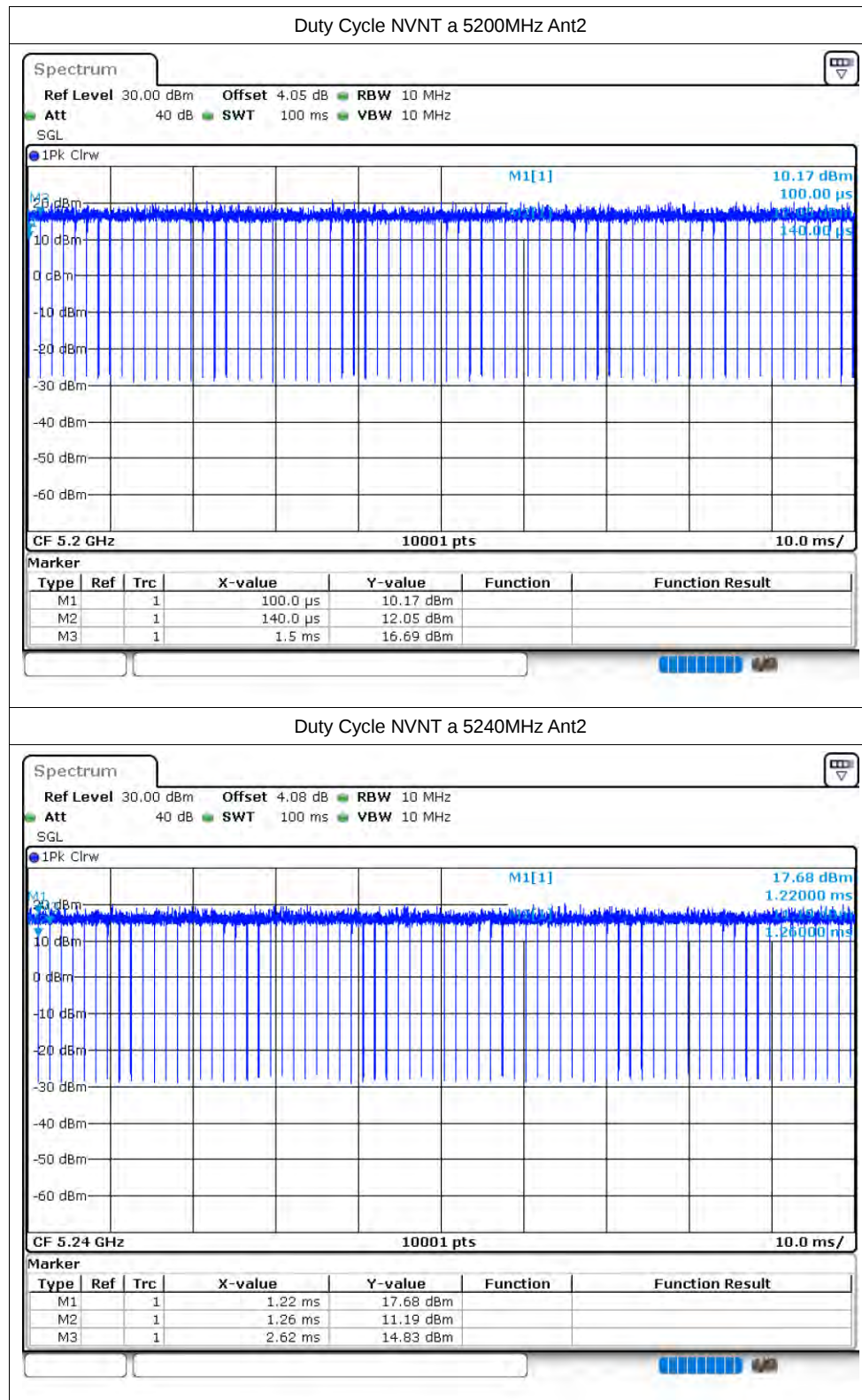
Duty Cycle NVNT a 5180MHz Ant1

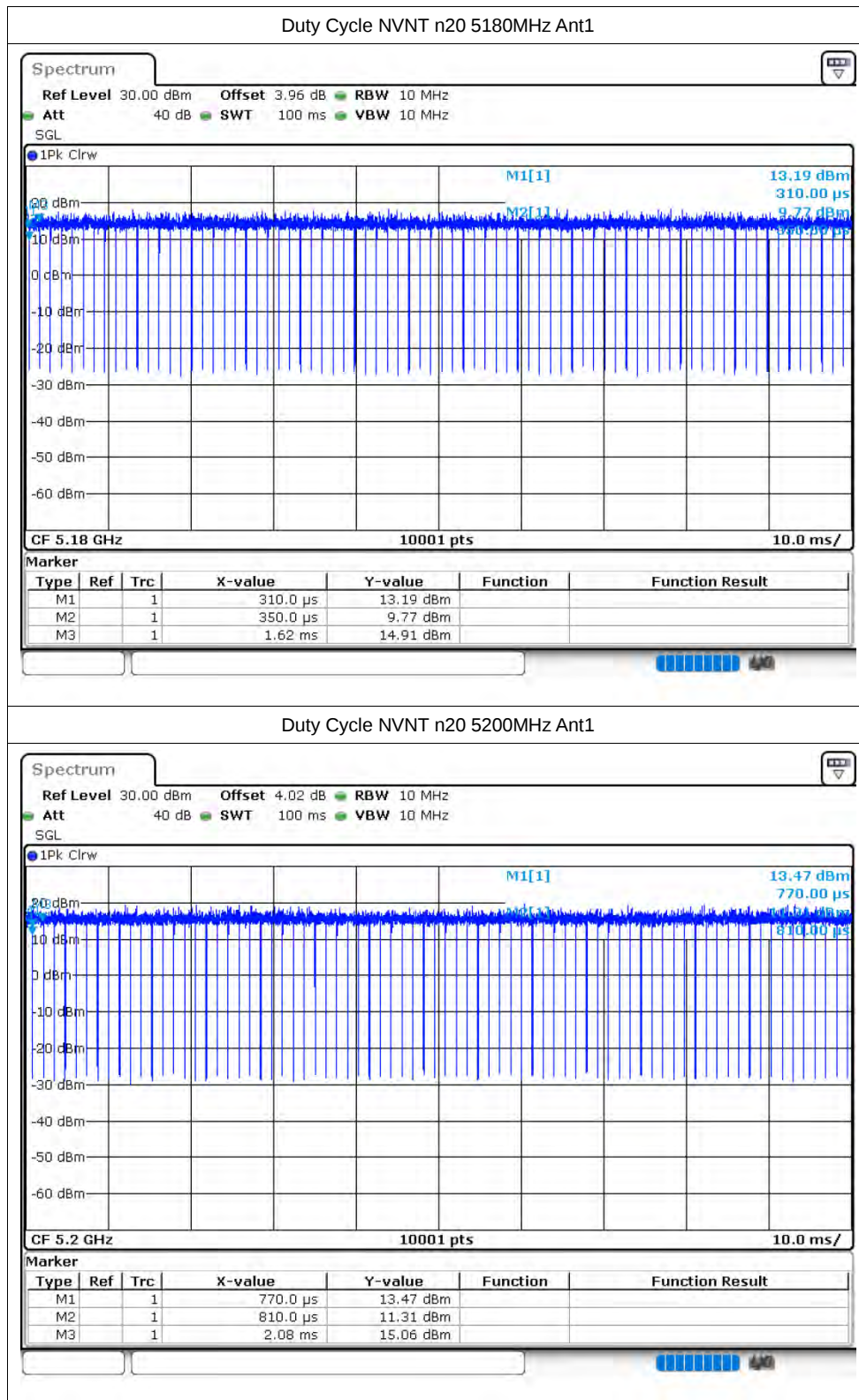


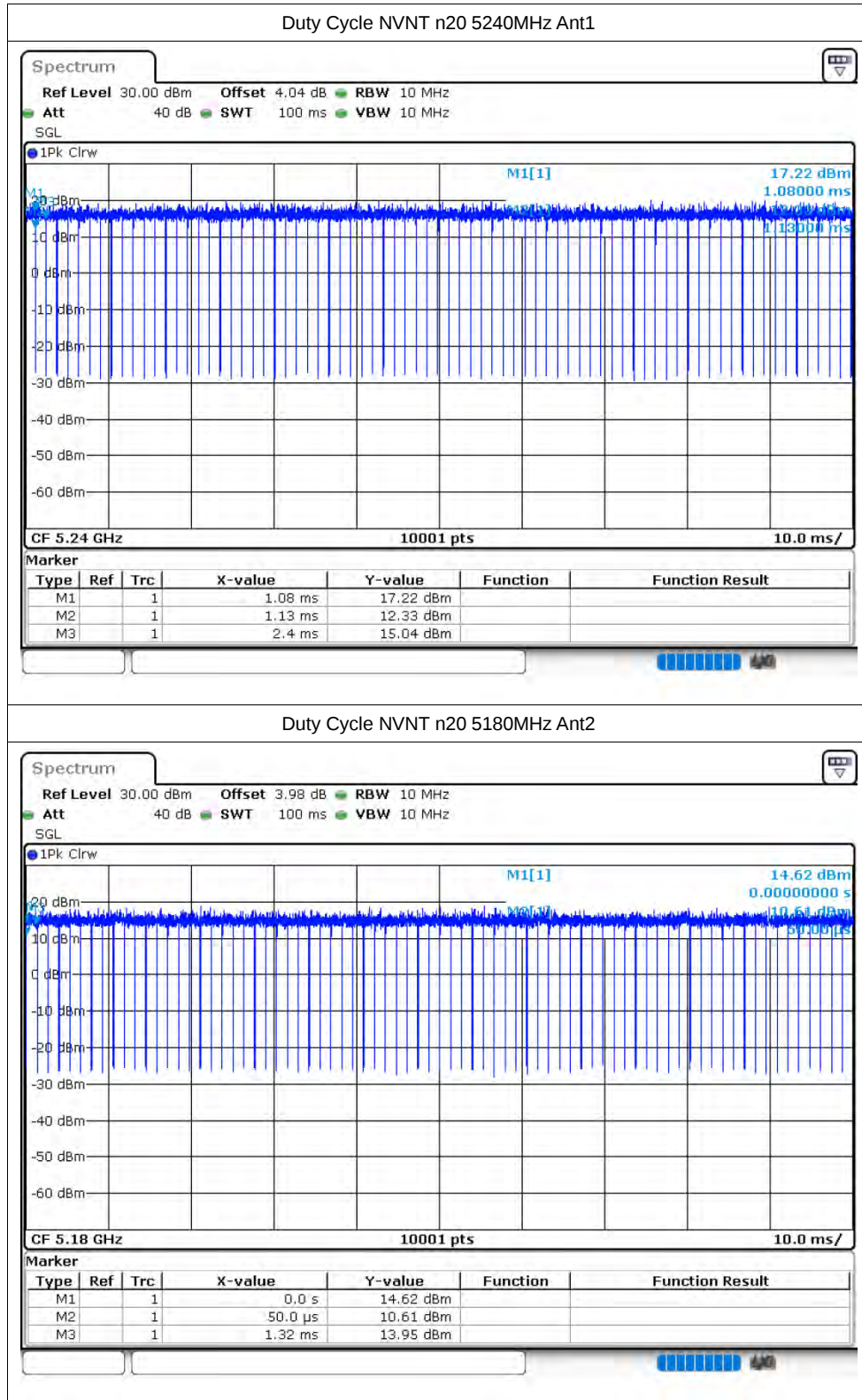
Duty Cycle NVNT a 5200MHz Ant1

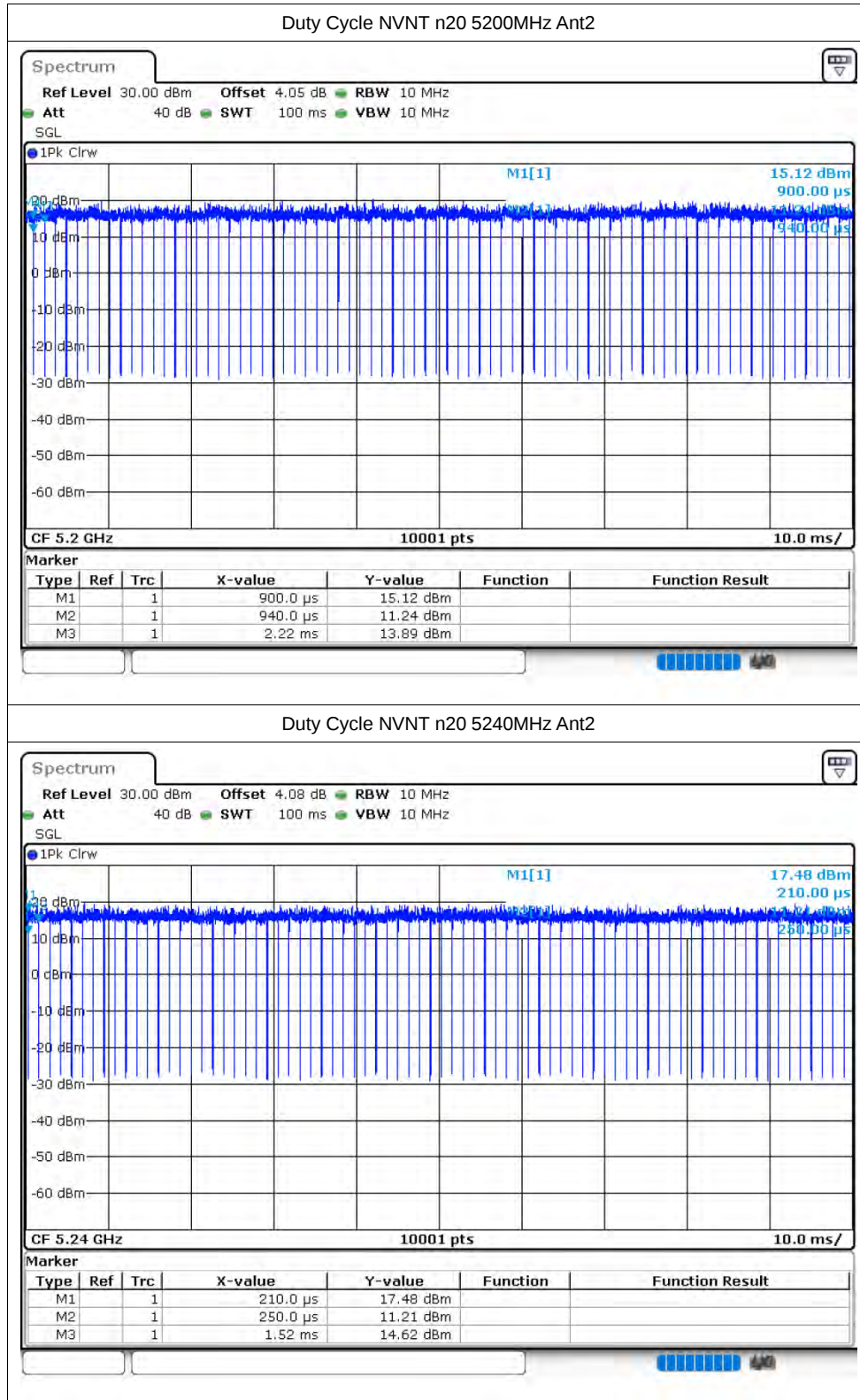


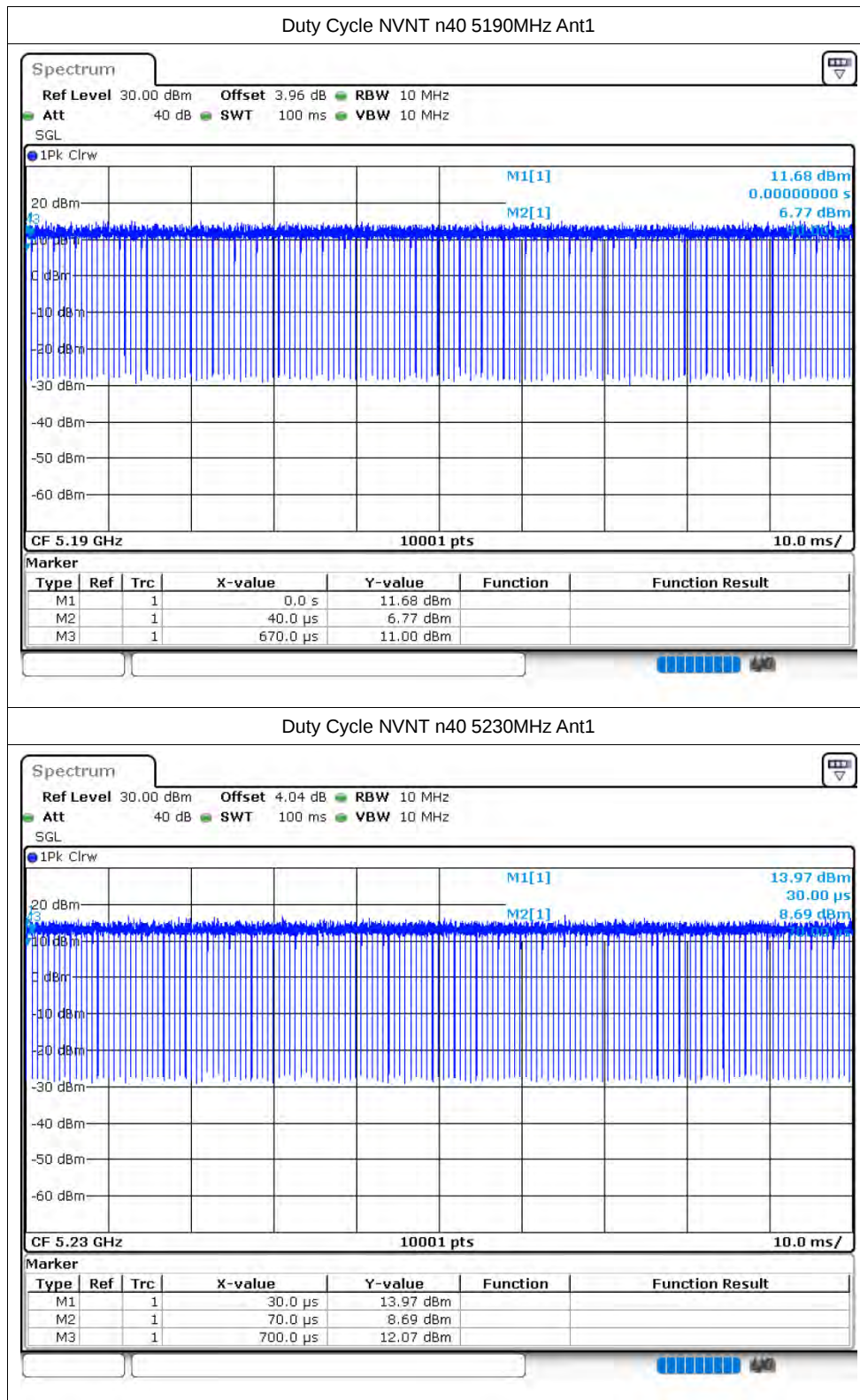


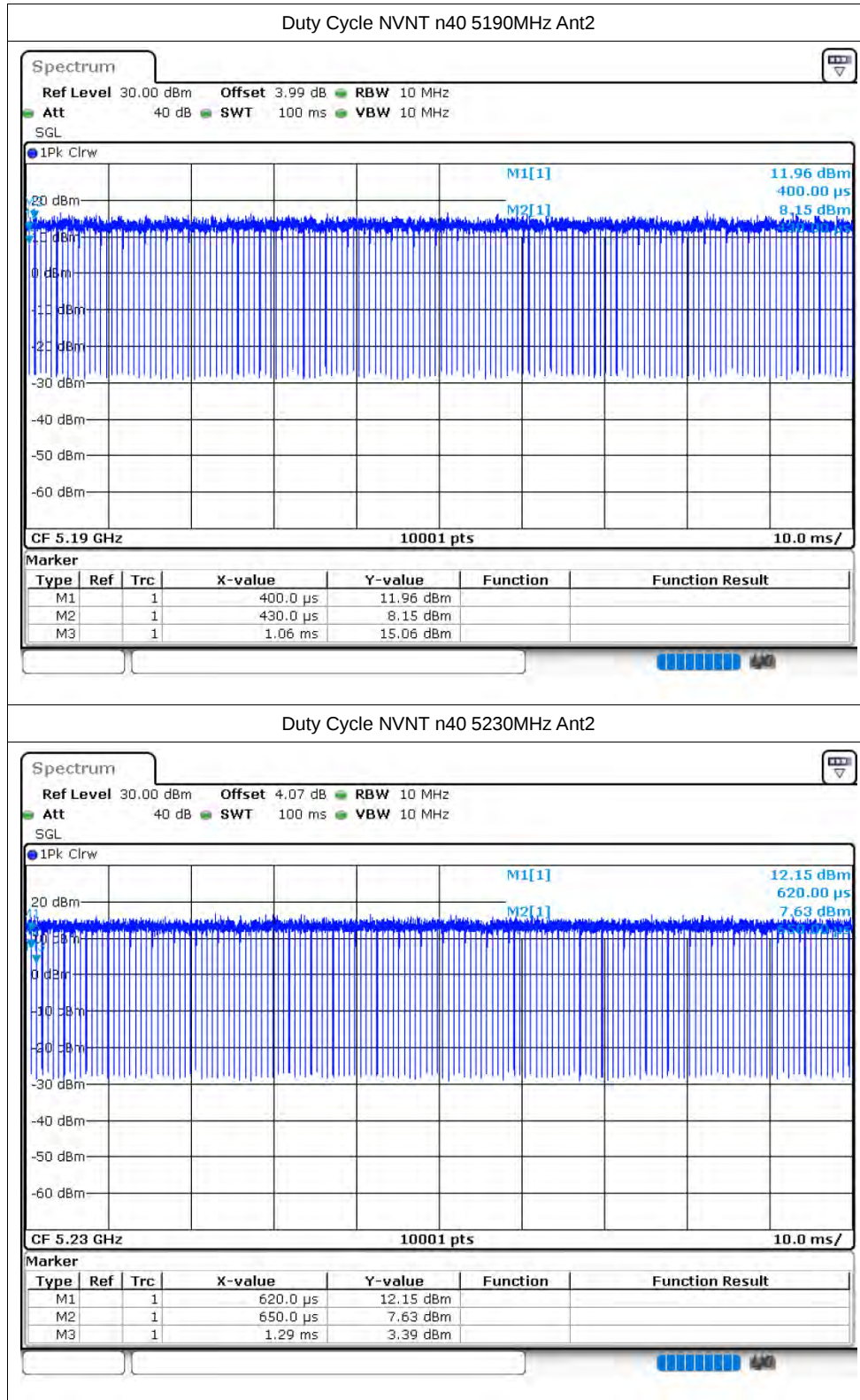












Maximum Conducted Output Power

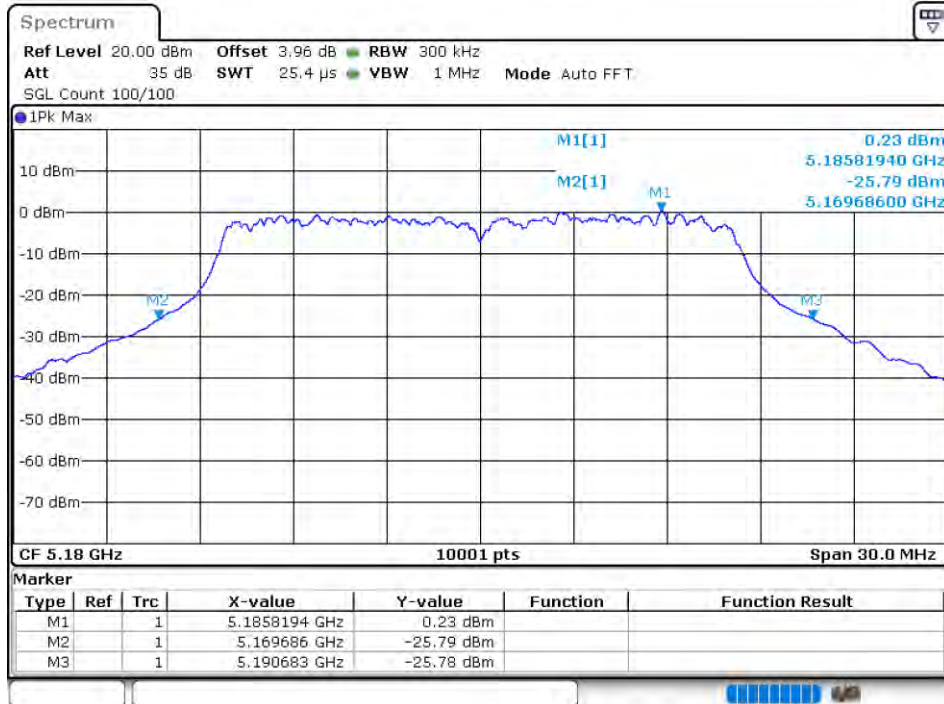
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.31	24	Pass
NVNT	a	5200	Ant1	11.8	24	Pass
NVNT	a	5240	Ant1	12.27	24	Pass
NVNT	a	5180	Ant2	12.33	24	Pass
NVNT	a	5200	Ant2	12.58	24	Pass
NVNT	a	5240	Ant2	12.4	24	Pass
NVNT	n20	5180	Ant1	11.45	24	Pass
NVNT	n20	5200	Ant1	11.82	24	Pass
NVNT	n20	5240	Ant1	12.21	24	Pass
NVNT	n20	5180	Ant2	11.91	24	Pass
NVNT	n20	5200	Ant2	12.63	24	Pass
NVNT	n20	5240	Ant2	12.5	24	Pass
NVNT	n40	5190	Ant1	11.53	24	Pass
NVNT	n40	5230	Ant1	12.01	24	Pass
NVNT	n40	5190	Ant2	12.6	24	Pass
NVNT	n40	5230	Ant2	12.55	24	Pass

-26dB Bandwidth

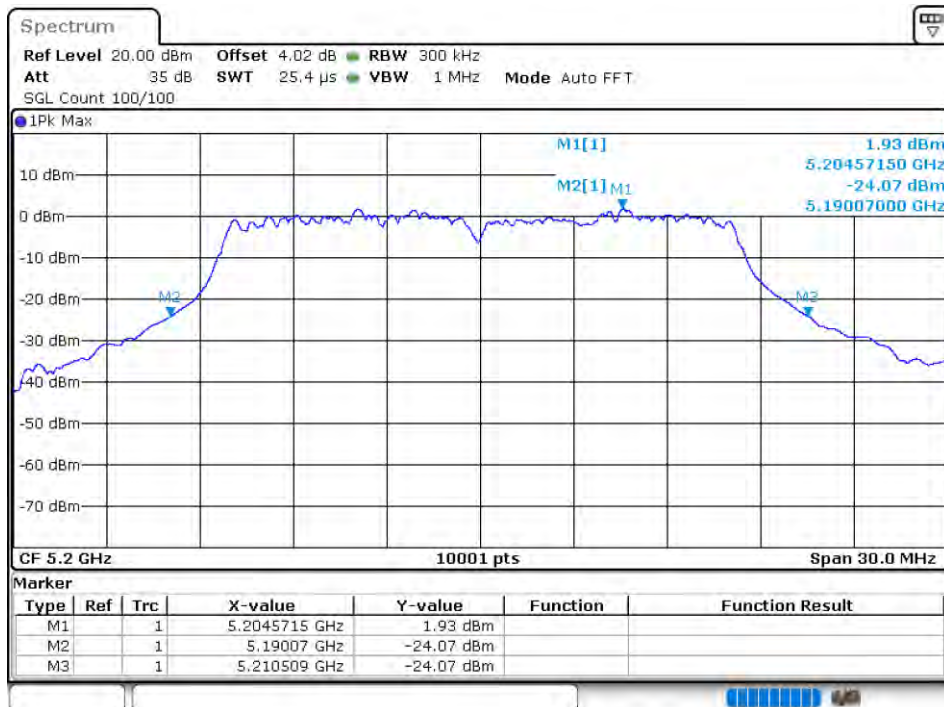
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.997	Pass
NVNT	a	5200	Ant1	20.439	Pass
NVNT	a	5240	Ant1	22.092	Pass
NVNT	a	5180	Ant2	20.625	Pass
NVNT	a	5200	Ant2	21.972	Pass
NVNT	a	5240	Ant2	20.394	Pass
NVNT	n20	5180	Ant1	22.383	Pass
NVNT	n20	5200	Ant1	21.891	Pass
NVNT	n20	5240	Ant1	21.975	Pass
NVNT	n20	5180	Ant2	22.572	Pass
NVNT	n20	5200	Ant2	24.504	Pass
NVNT	n20	5240	Ant2	22.524	Pass
NVNT	n40	5190	Ant1	48.426	Pass
NVNT	n40	5230	Ant1	46.932	Pass
NVNT	n40	5190	Ant2	46.884	Pass
NVNT	n40	5230	Ant2	46.788	Pass

Test Graphs

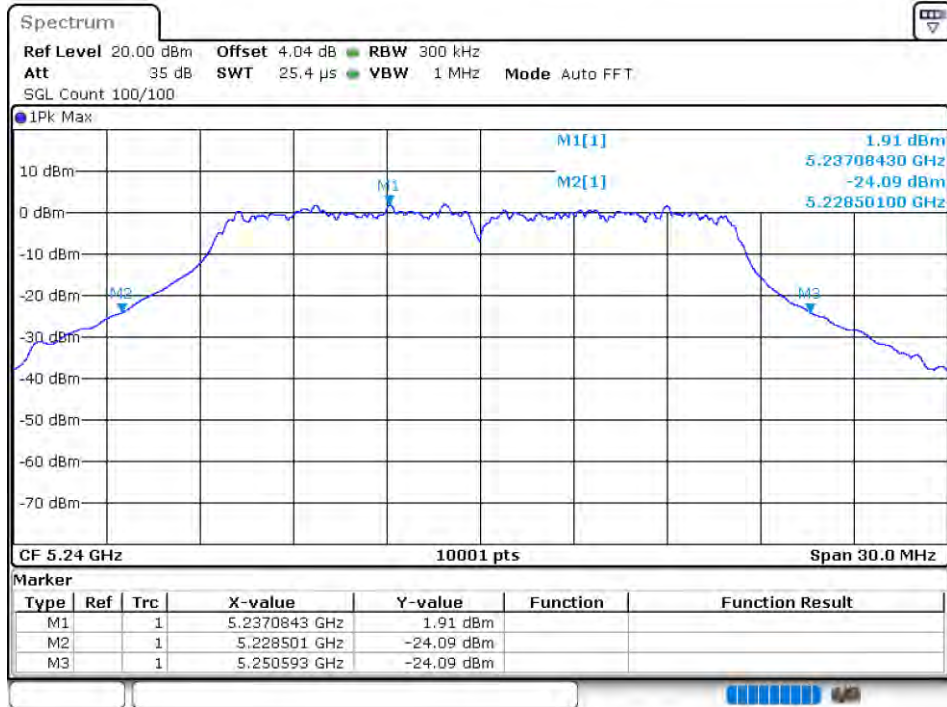
-26dB Bandwidth NVNT a 5180MHz Ant1



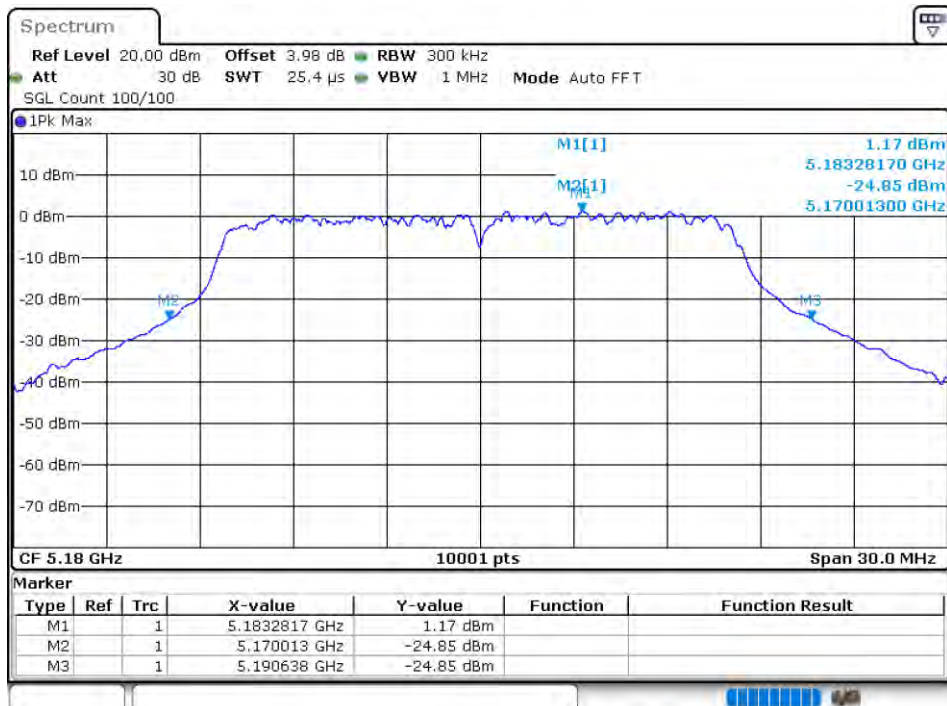
-26dB Bandwidth NVNT a 5200MHz Ant1



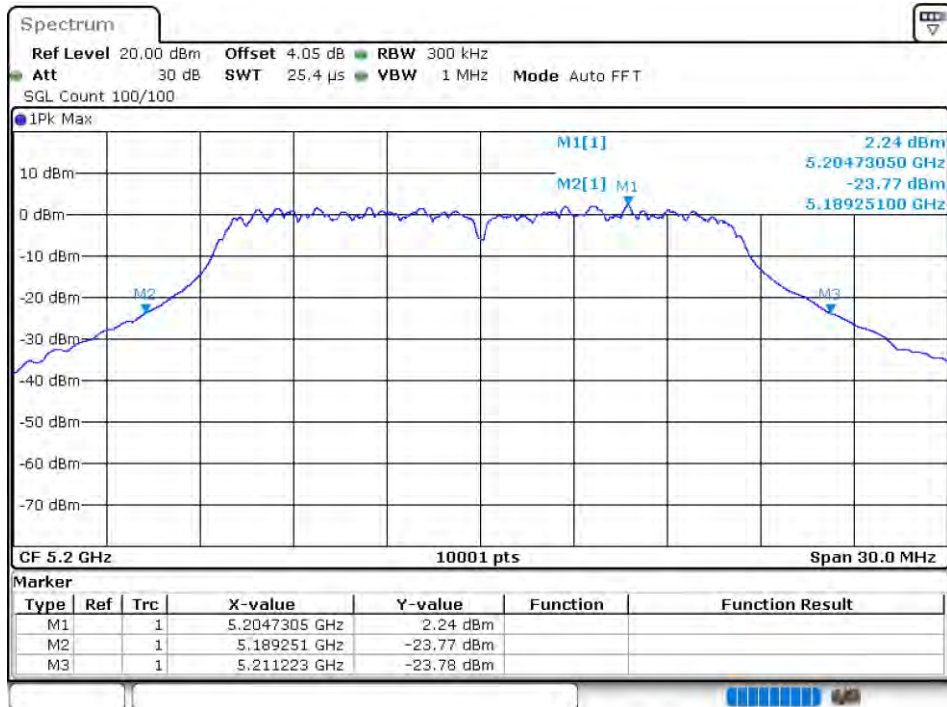
-26dB Bandwidth NVNT a 5240MHz Ant1



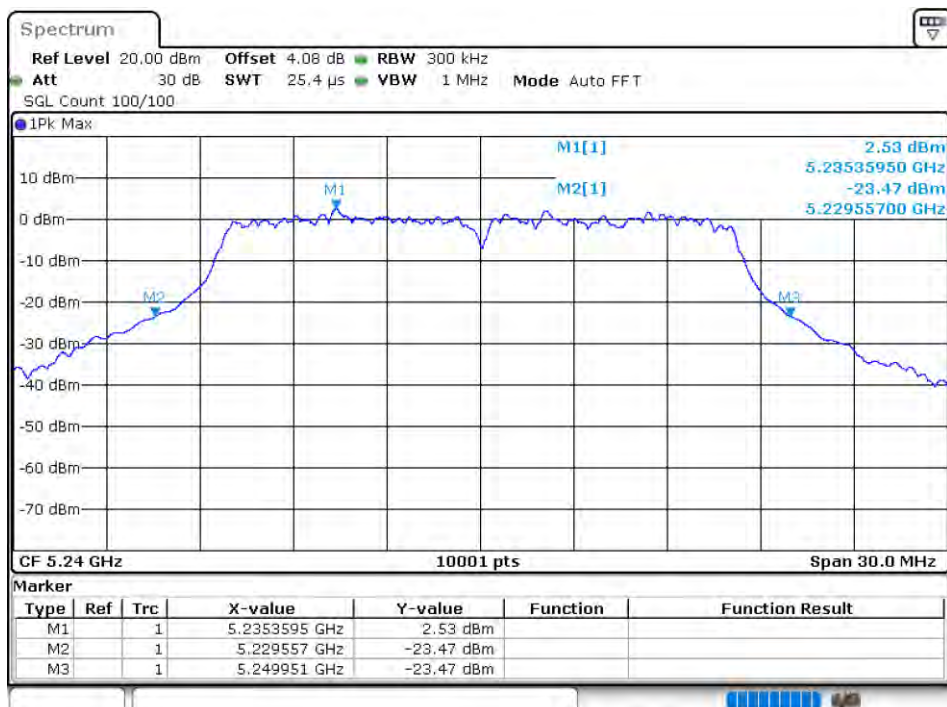
-26dB Bandwidth NVNT a 5180MHz Ant2



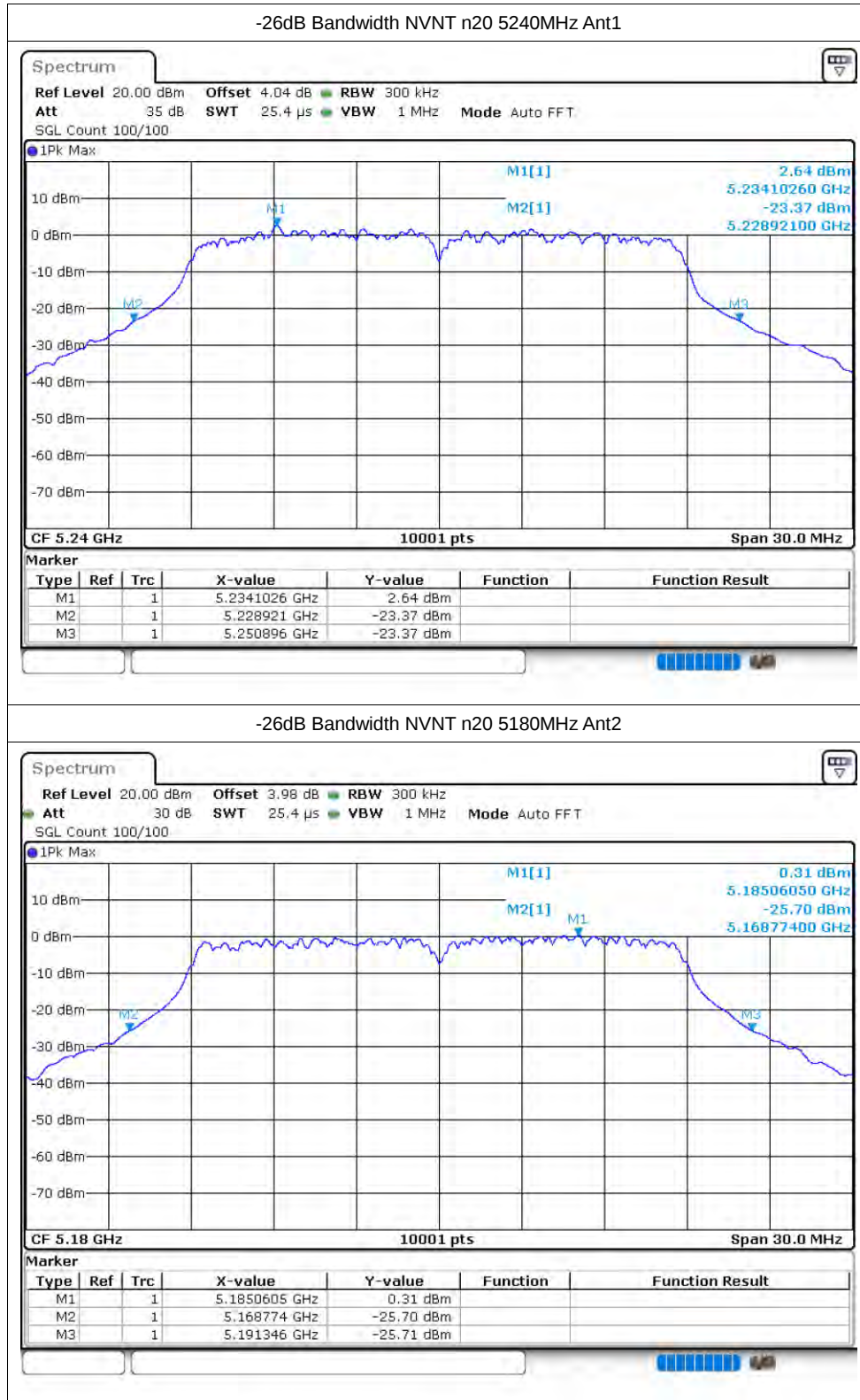
-26dB Bandwidth NVNT a 5200MHz Ant2



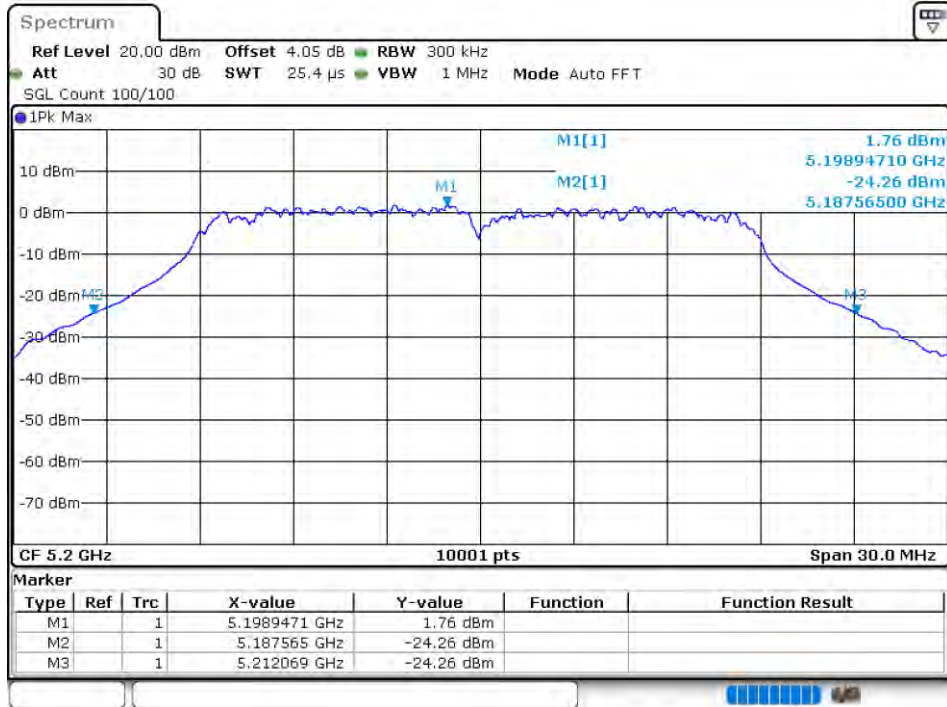
-26dB Bandwidth NVNT a 5240MHz Ant2



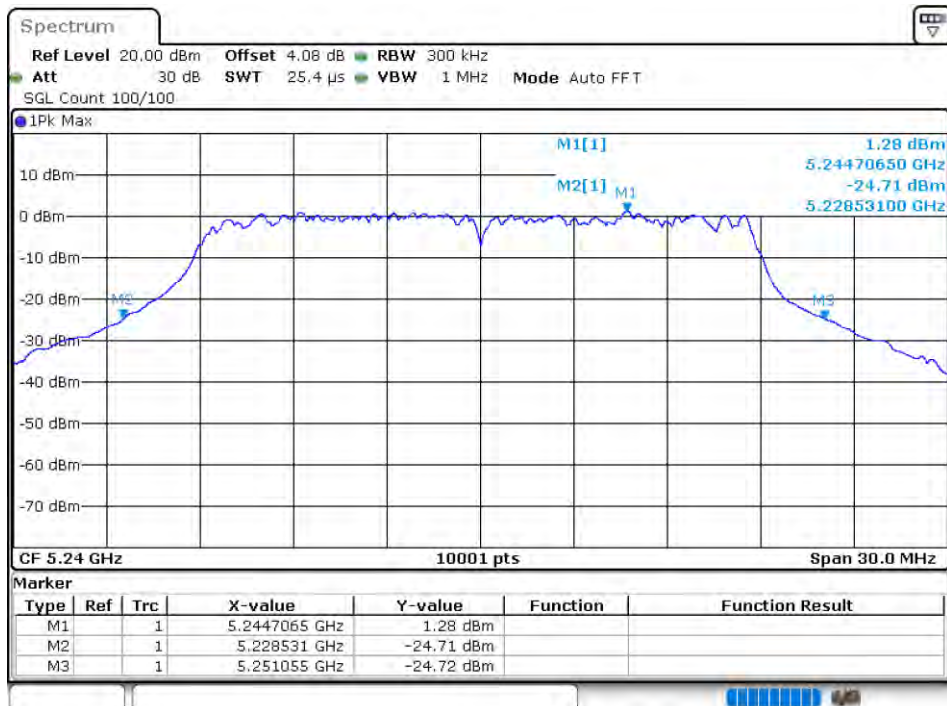


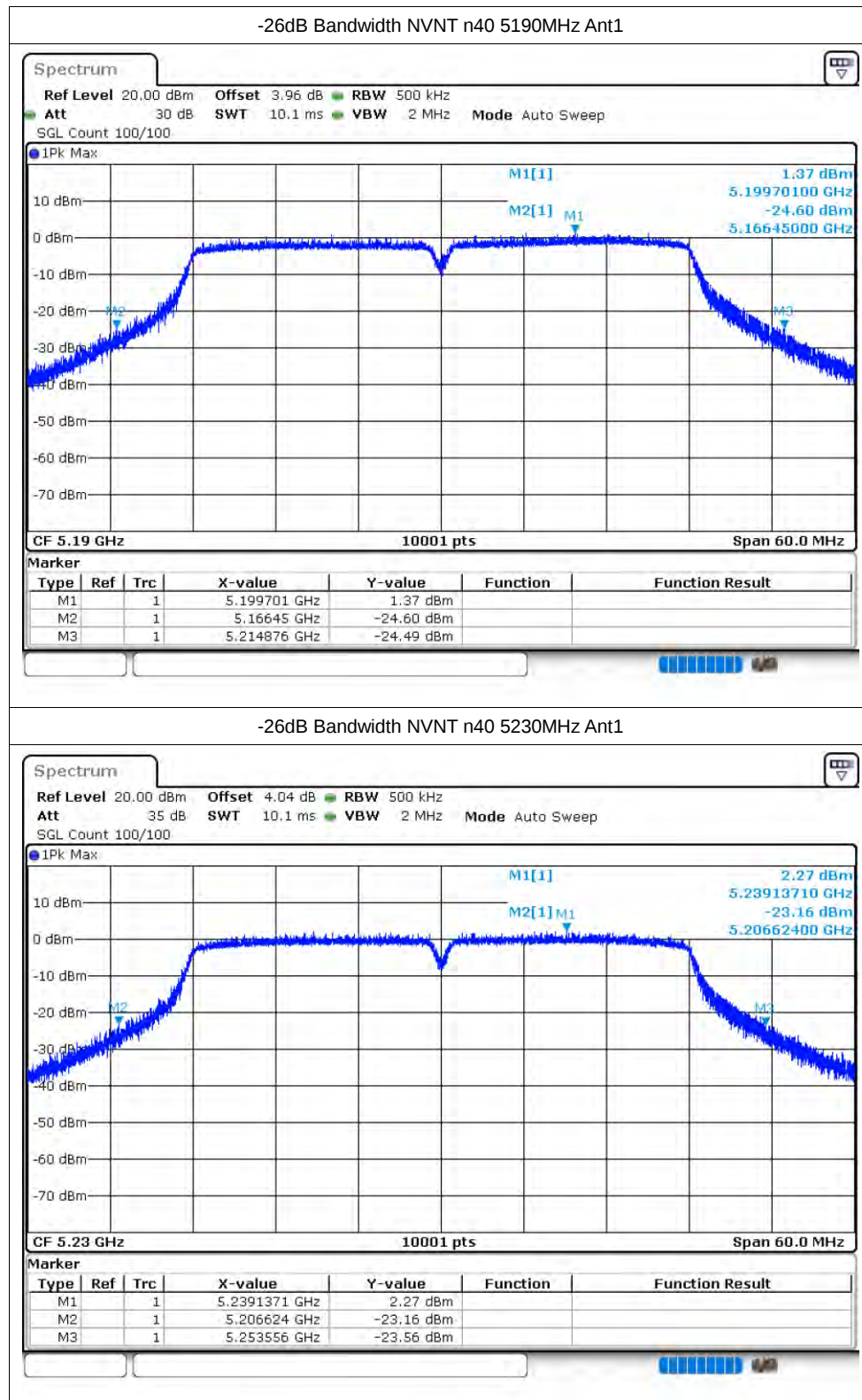


-26dB Bandwidth NVNT n20 5200MHz Ant2

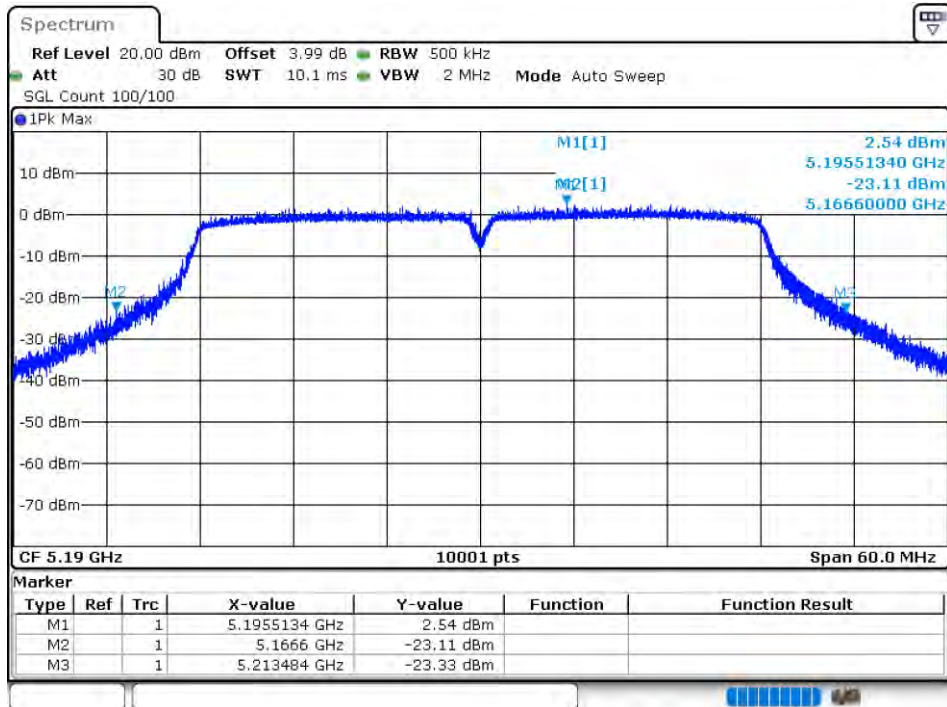


-26dB Bandwidth NVNT n20 5240MHz Ant2

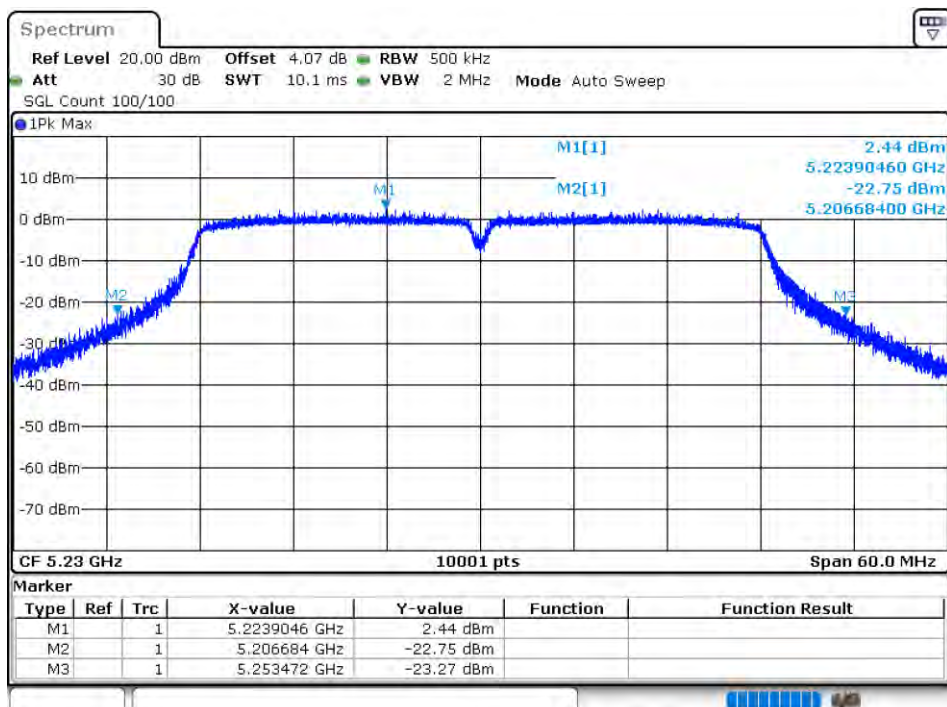




-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant2

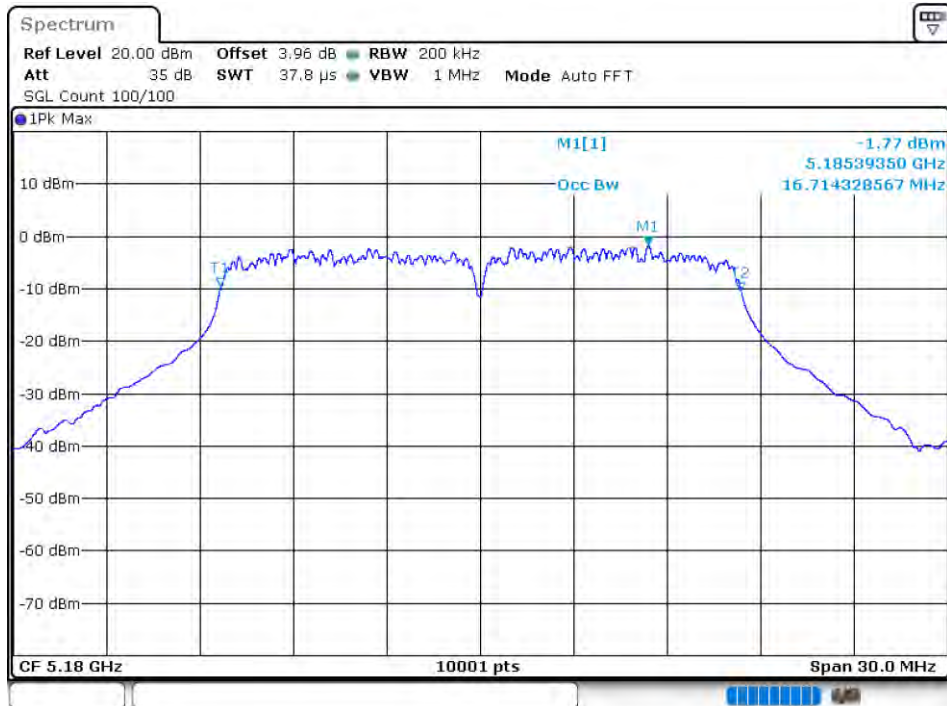


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.714
NVNT	a	5200	Ant1	16.573
NVNT	a	5240	Ant1	16.477
NVNT	a	5180	Ant2	16.567
NVNT	a	5200	Ant2	16.675
NVNT	a	5240	Ant2	16.816
NVNT	n20	5180	Ant1	17.767
NVNT	n20	5200	Ant1	17.692
NVNT	n20	5240	Ant1	17.629
NVNT	n20	5180	Ant2	17.749
NVNT	n20	5200	Ant2	17.752
NVNT	n20	5240	Ant2	17.701
NVNT	n40	5190	Ant1	36.692
NVNT	n40	5230	Ant1	36.542
NVNT	n40	5190	Ant2	36.572
NVNT	n40	5230	Ant2	36.578

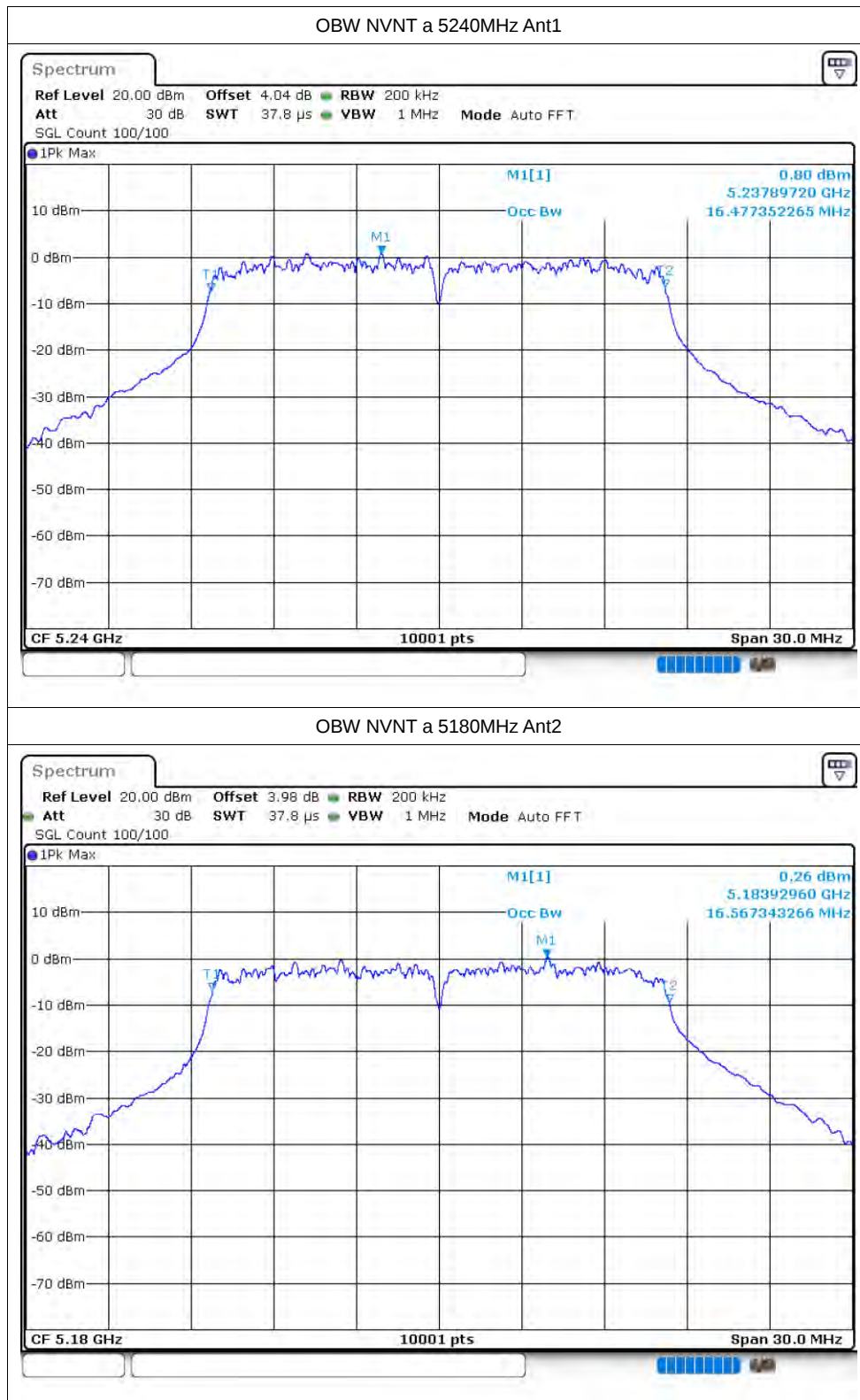
Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1

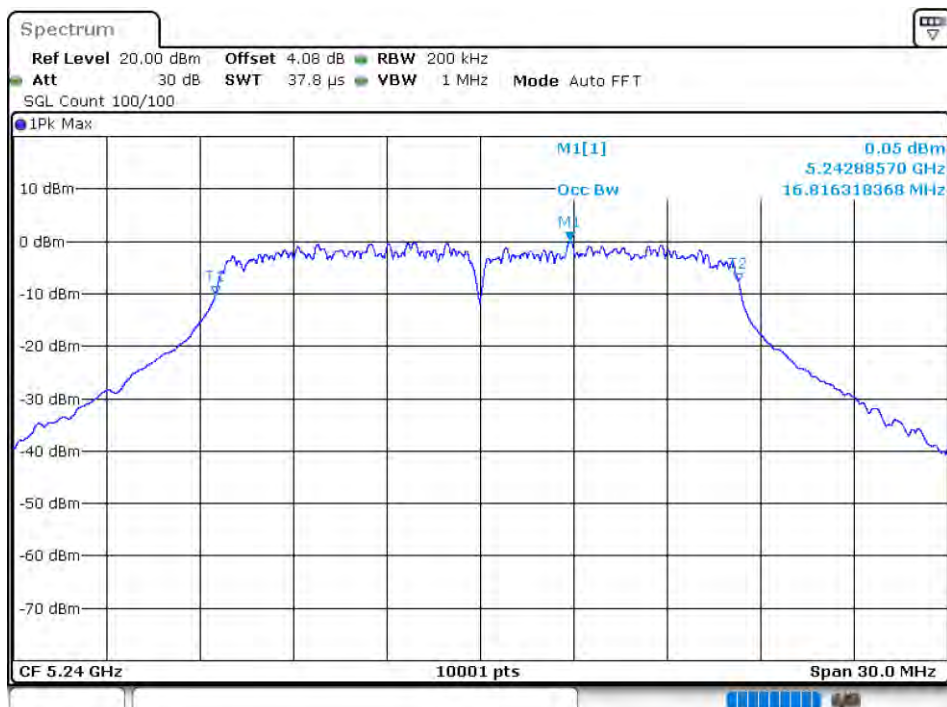


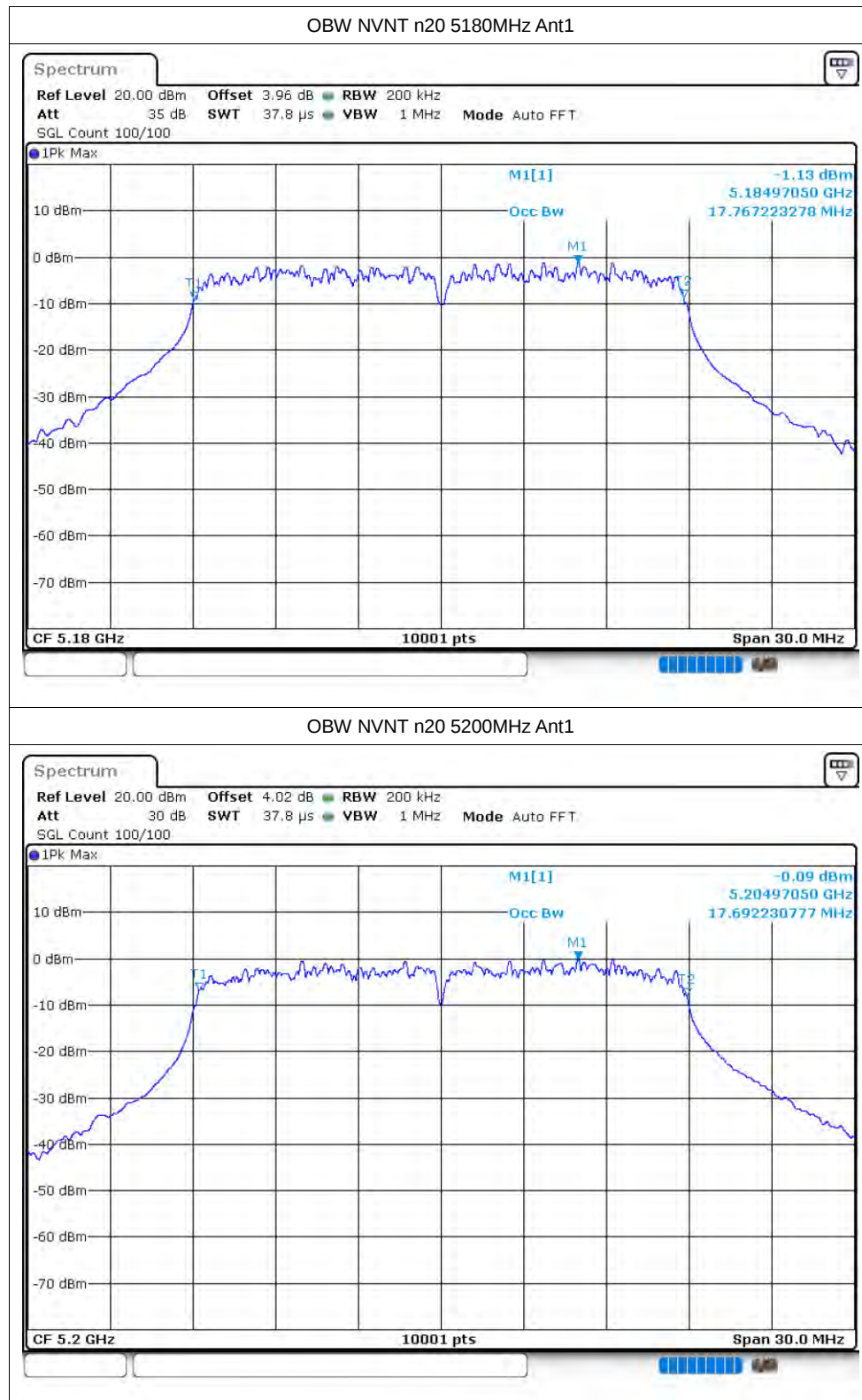


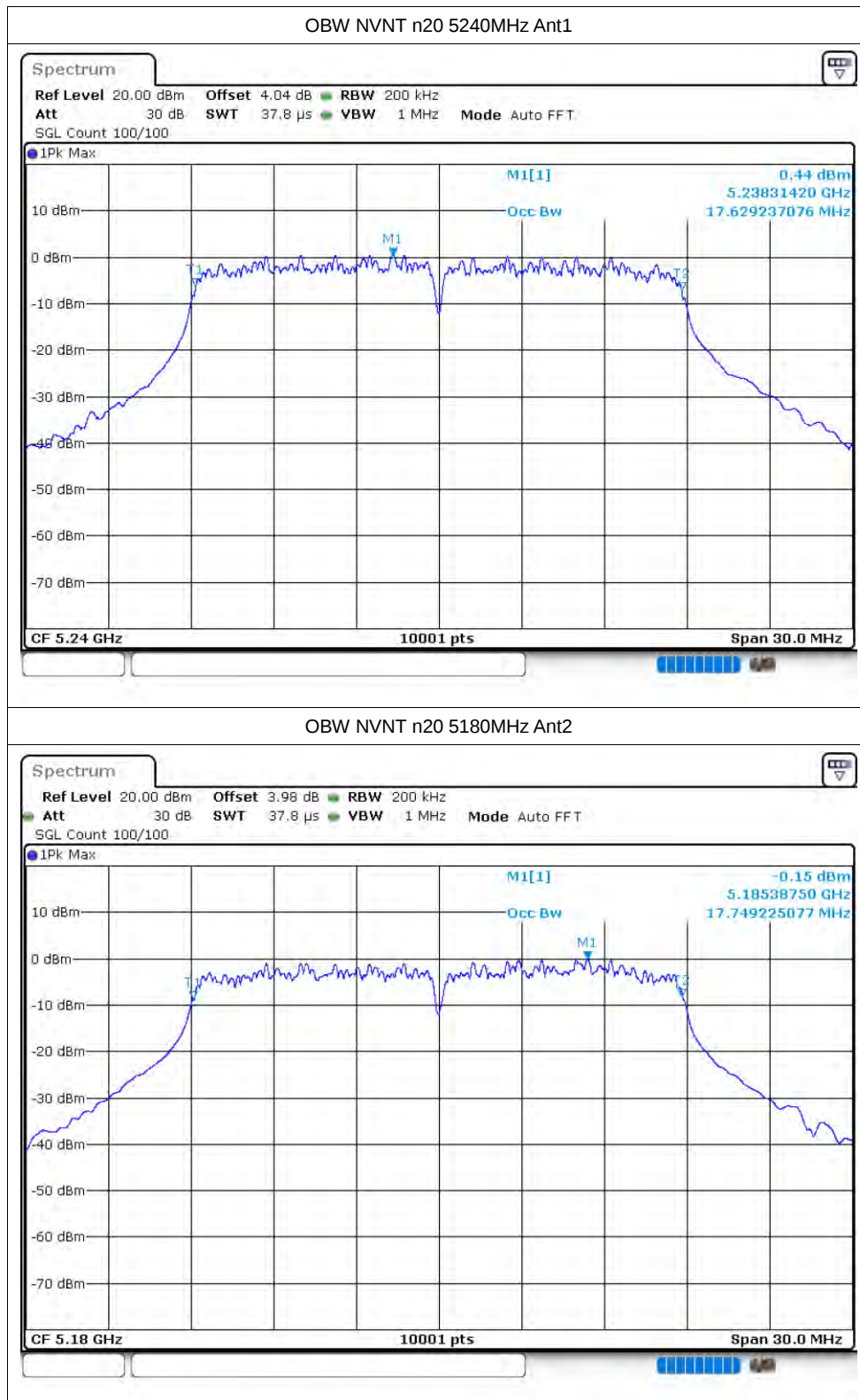
OBW NVNT a 5200MHz Ant2

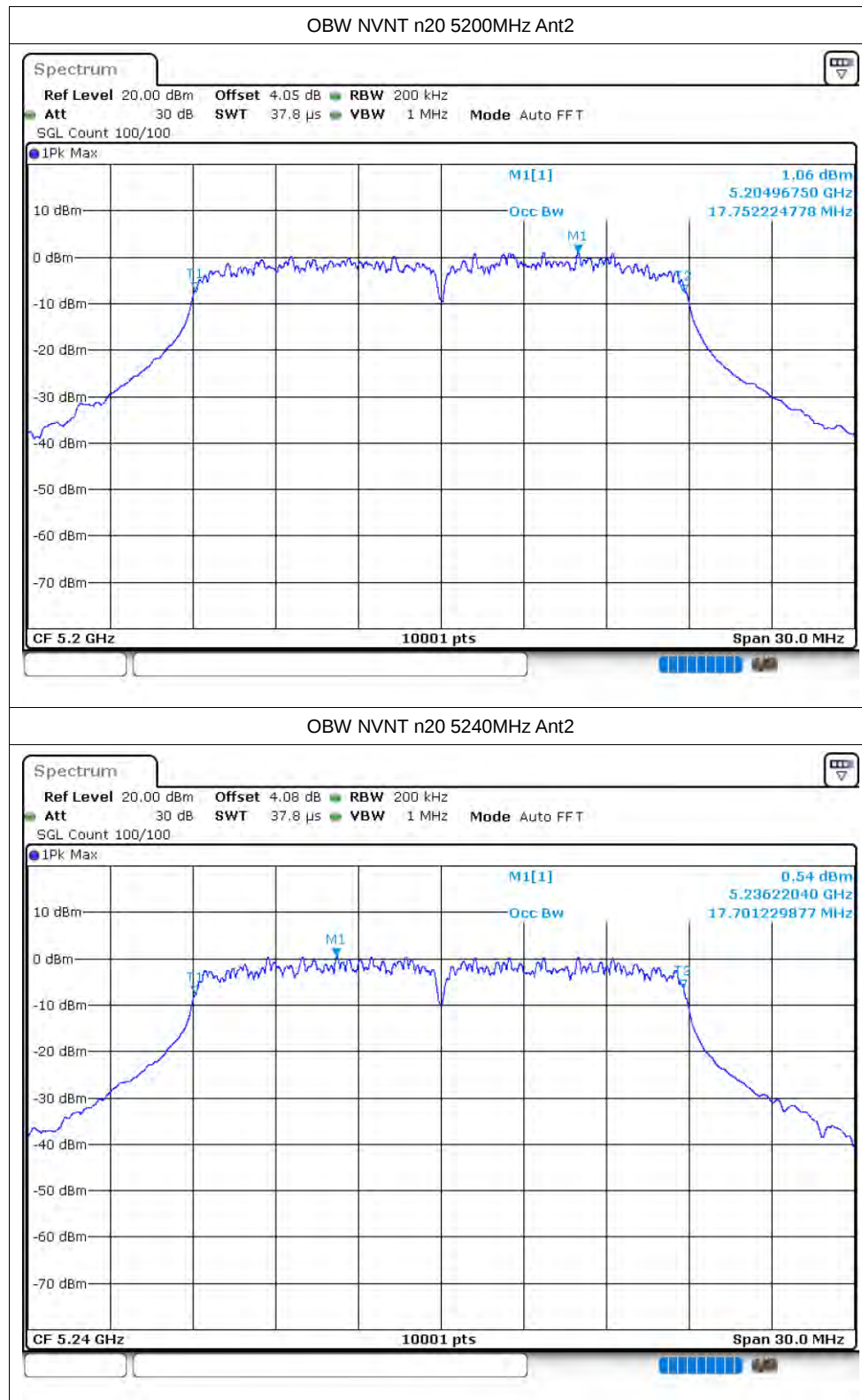


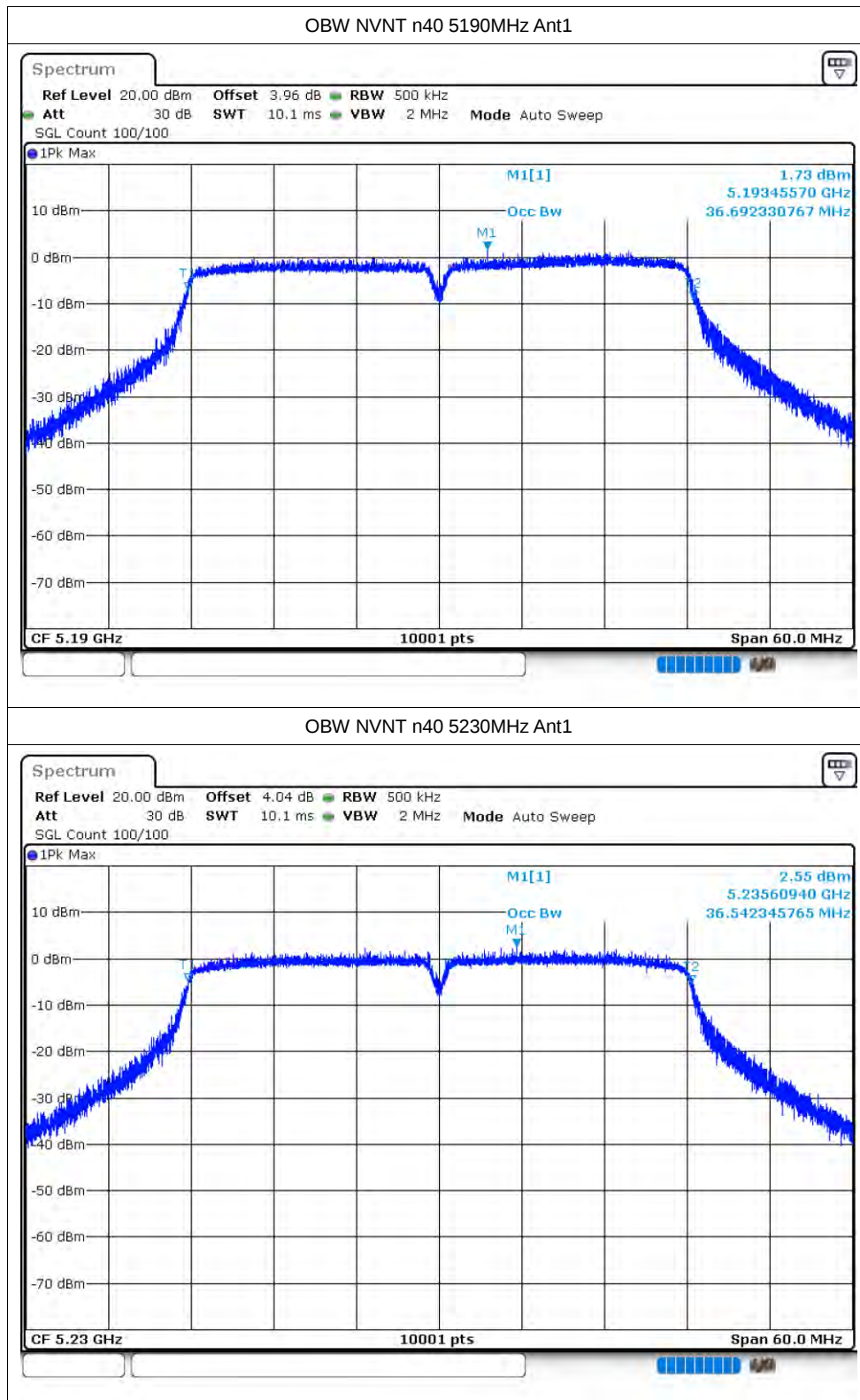
OBW NVNT a 5240MHz Ant2

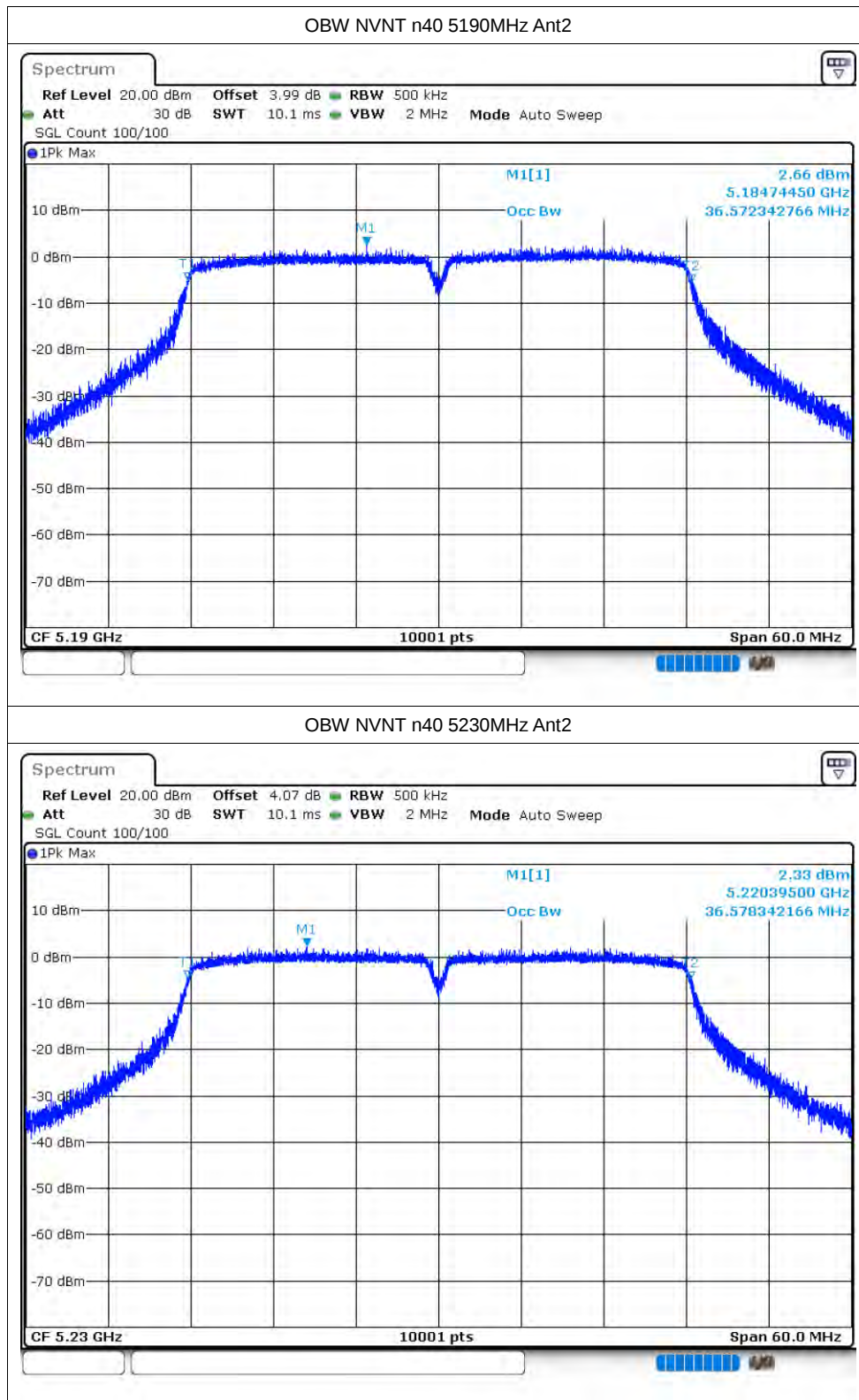










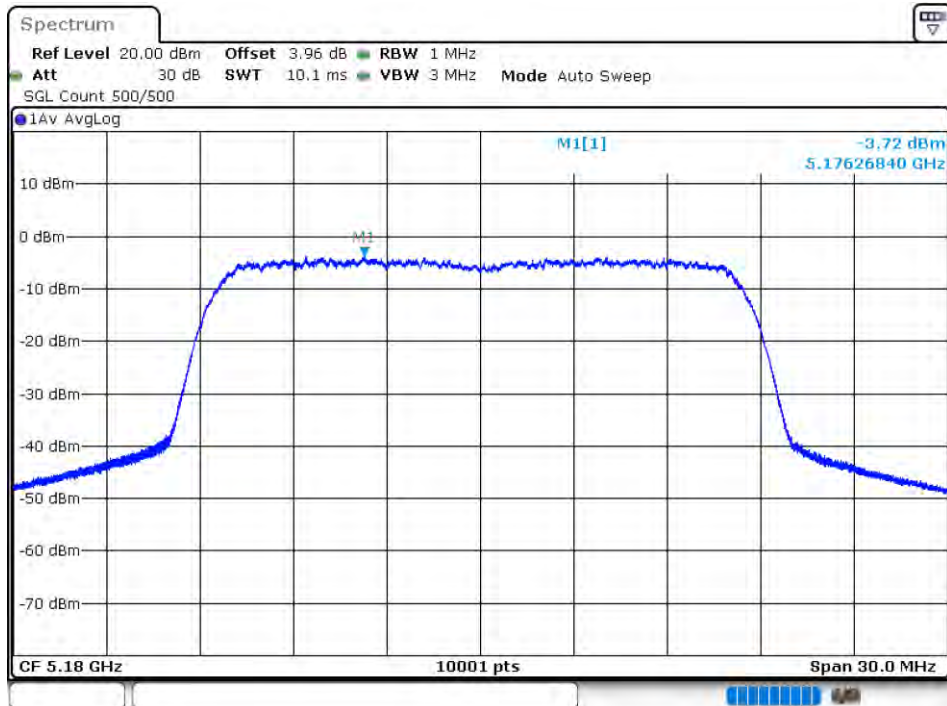


Maximum Power Spectral Density Level

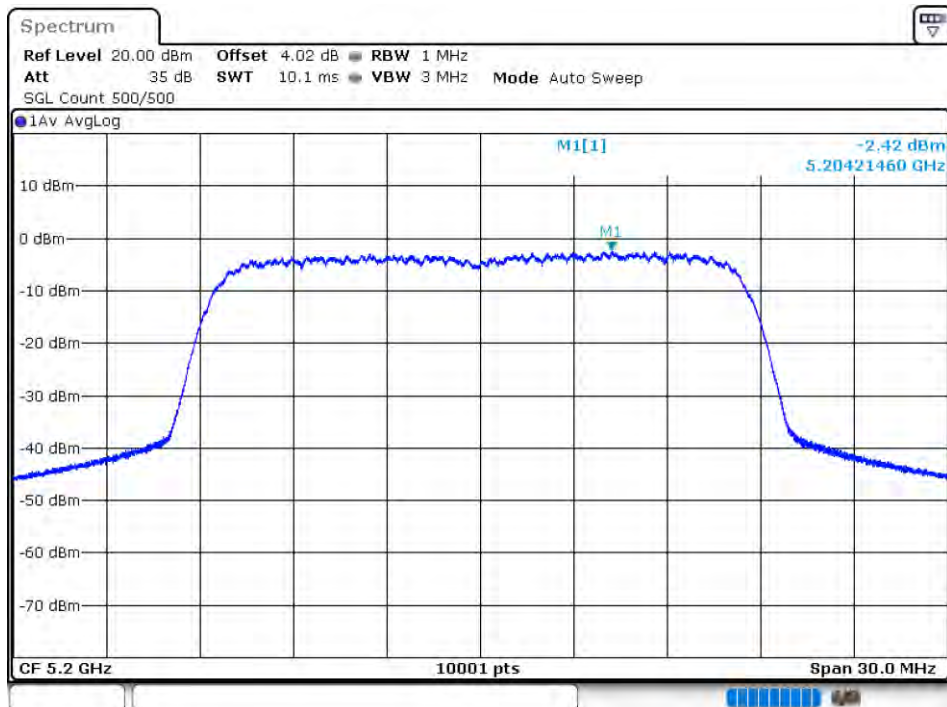
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-3.72	0.11	-3.61	11	Pass
NVNT	a	5200	Ant1	-2.42	0.11	-2.31	11	Pass
NVNT	a	5240	Ant1	-2.07	0.11	-1.96	11	Pass
NVNT	a	5180	Ant2	-1.32	0.11	-1.21	11	Pass
NVNT	a	5200	Ant2	-1.04	0.11	-0.93	11	Pass
NVNT	a	5240	Ant2	-1.16	0.11	-1.05	11	Pass
NVNT	n20	5180	Ant1	-3.24	0.11	-3.13	11	Pass
NVNT	n20	5200	Ant1	-1.63	0.11	-1.52	11	Pass
NVNT	n20	5240	Ant1	-0.93	0.11	-0.82	11	Pass
NVNT	n20	5180	Ant2	-1.87	0.11	-1.76	11	Pass
NVNT	n20	5200	Ant2	-0.98	0.11	-0.87	11	Pass
NVNT	n20	5240	Ant2	-1.27	0.11	-1.16	11	Pass
NVNT	n40	5190	Ant1	-6.86	0.15	-6.71	11	Pass
NVNT	n40	5230	Ant1	-4.01	0.15	-3.86	11	Pass
NVNT	n40	5190	Ant2	-4.21	0.14	-4.07	11	Pass
NVNT	n40	5230	Ant2	-4.35	0.14	-4.21	11	Pass

Test Graphs

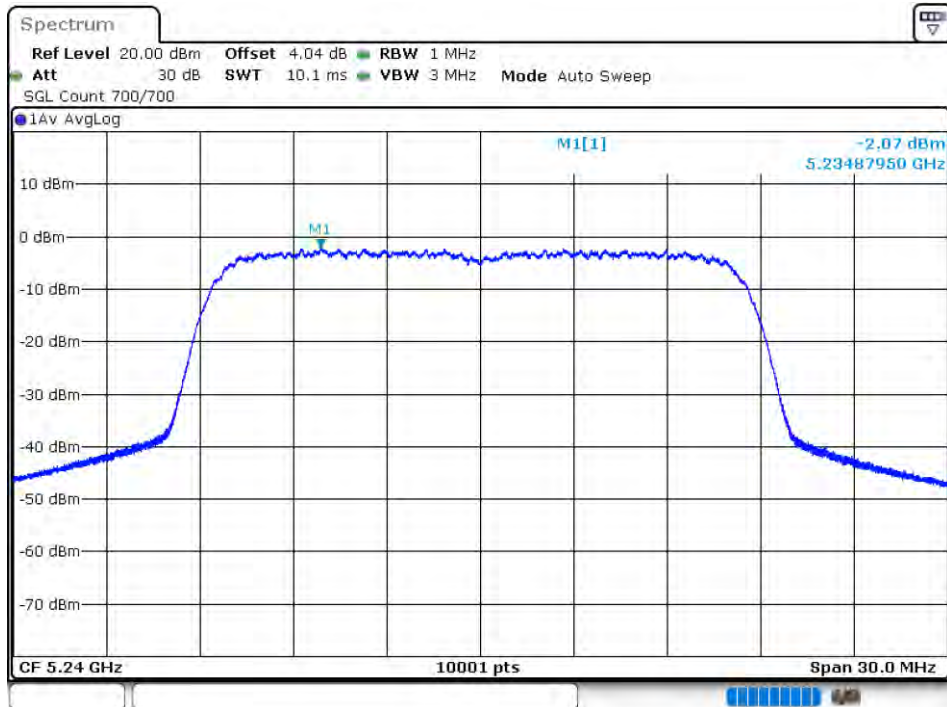
PSD NVNT a 5180MHz Ant1



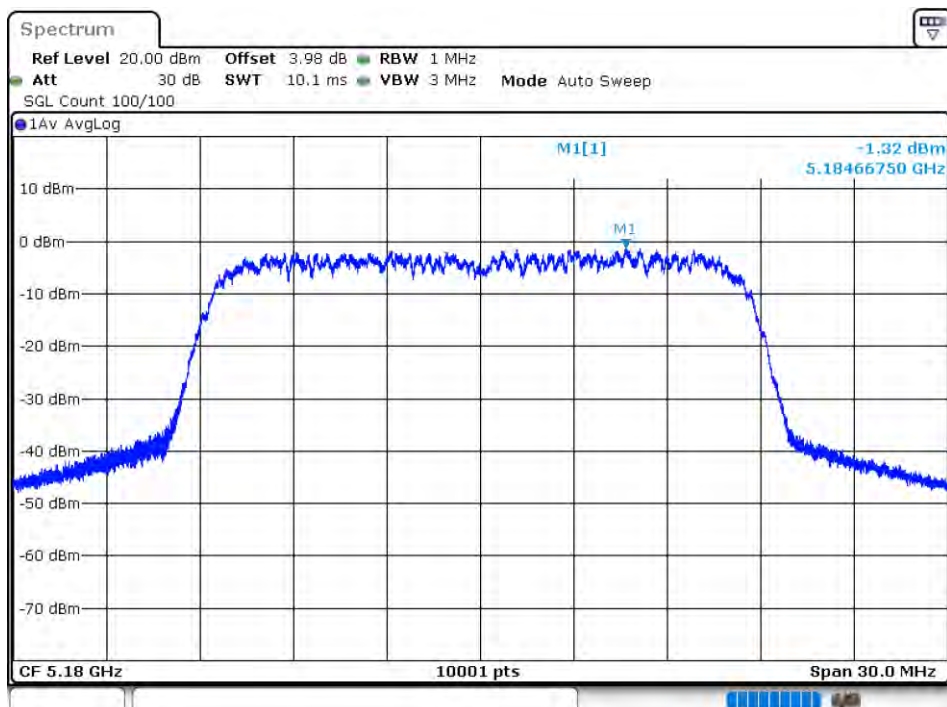
PSD NVNT a 5200MHz Ant1

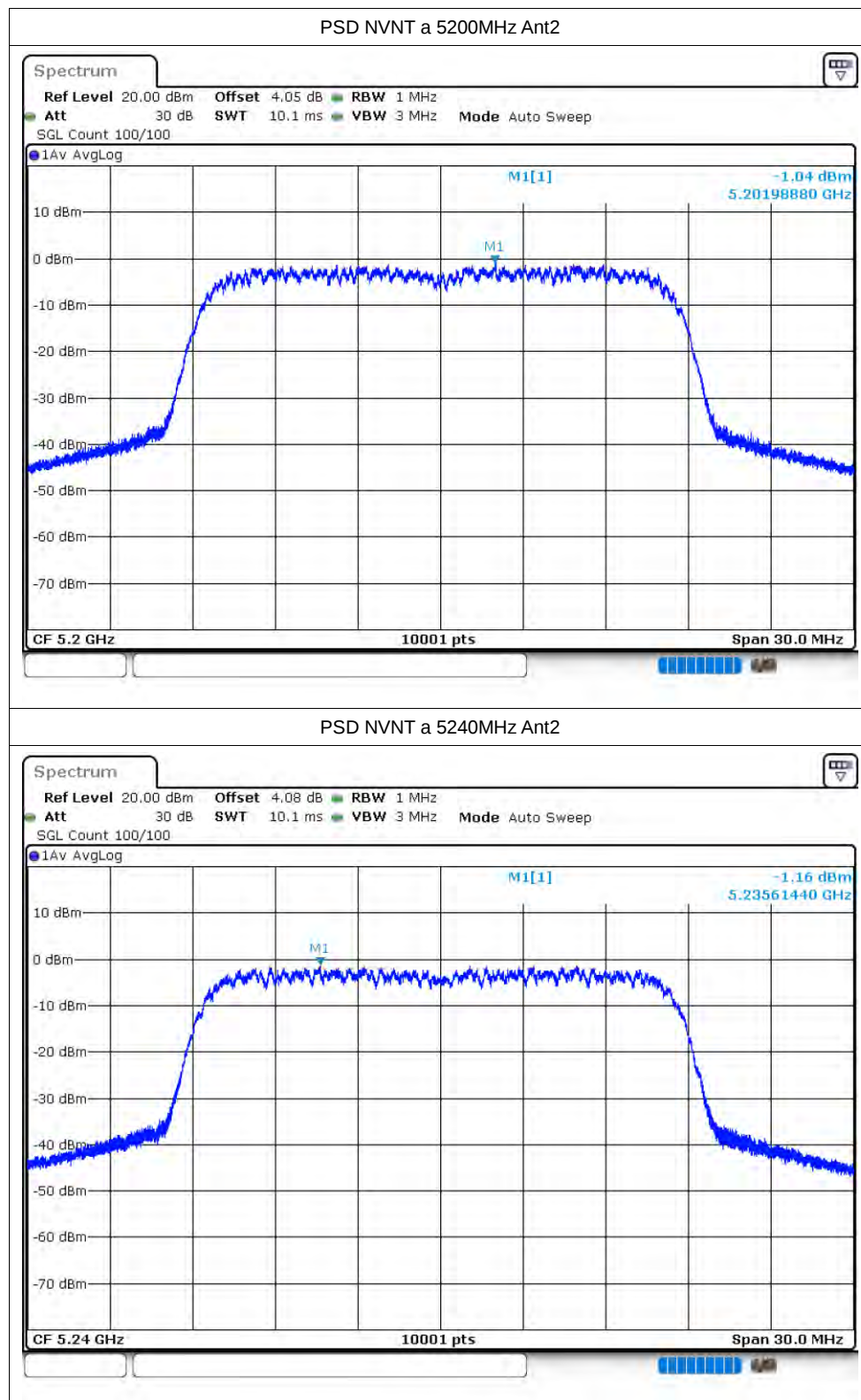


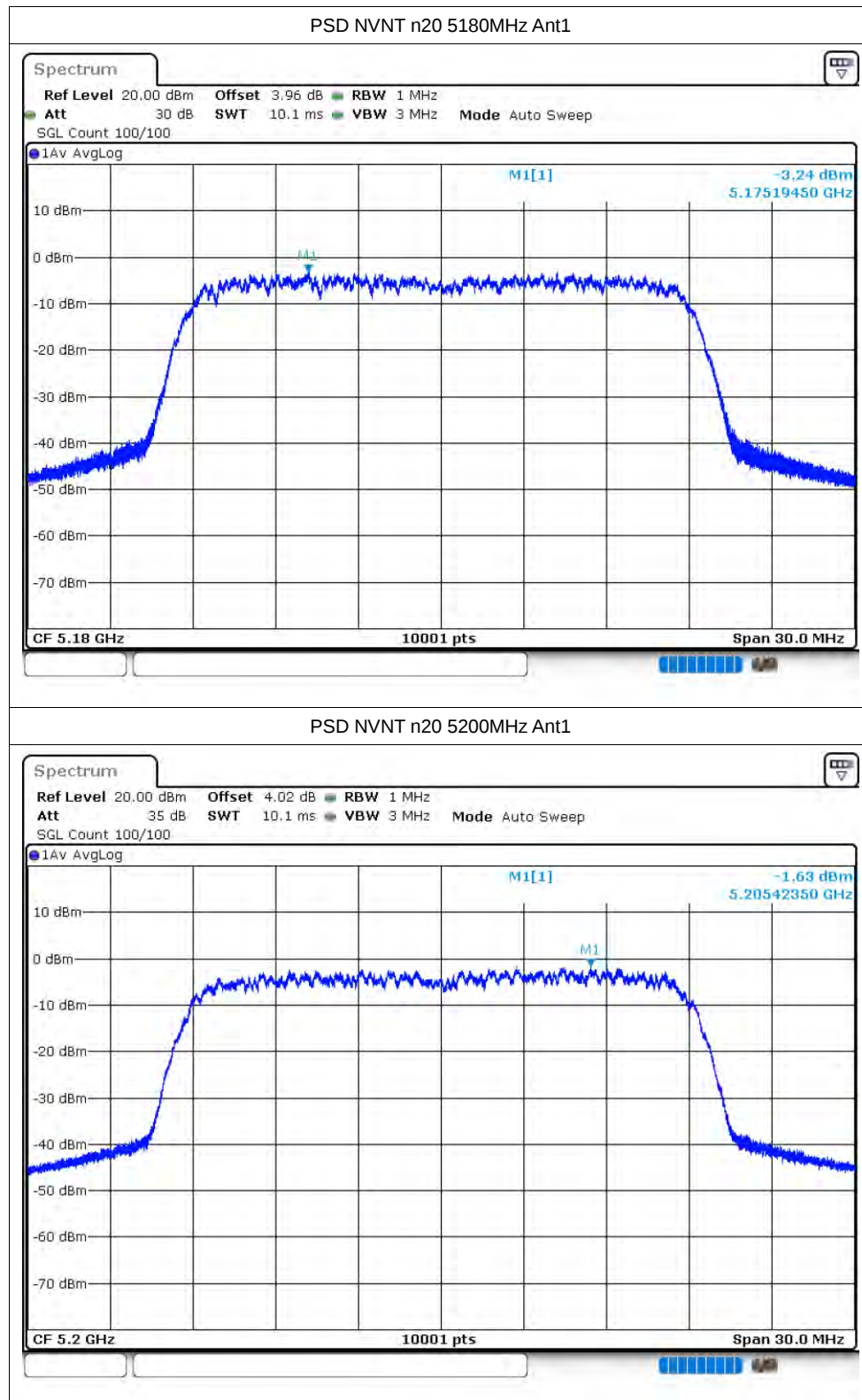
PSD NVNT a 5240MHz Ant1

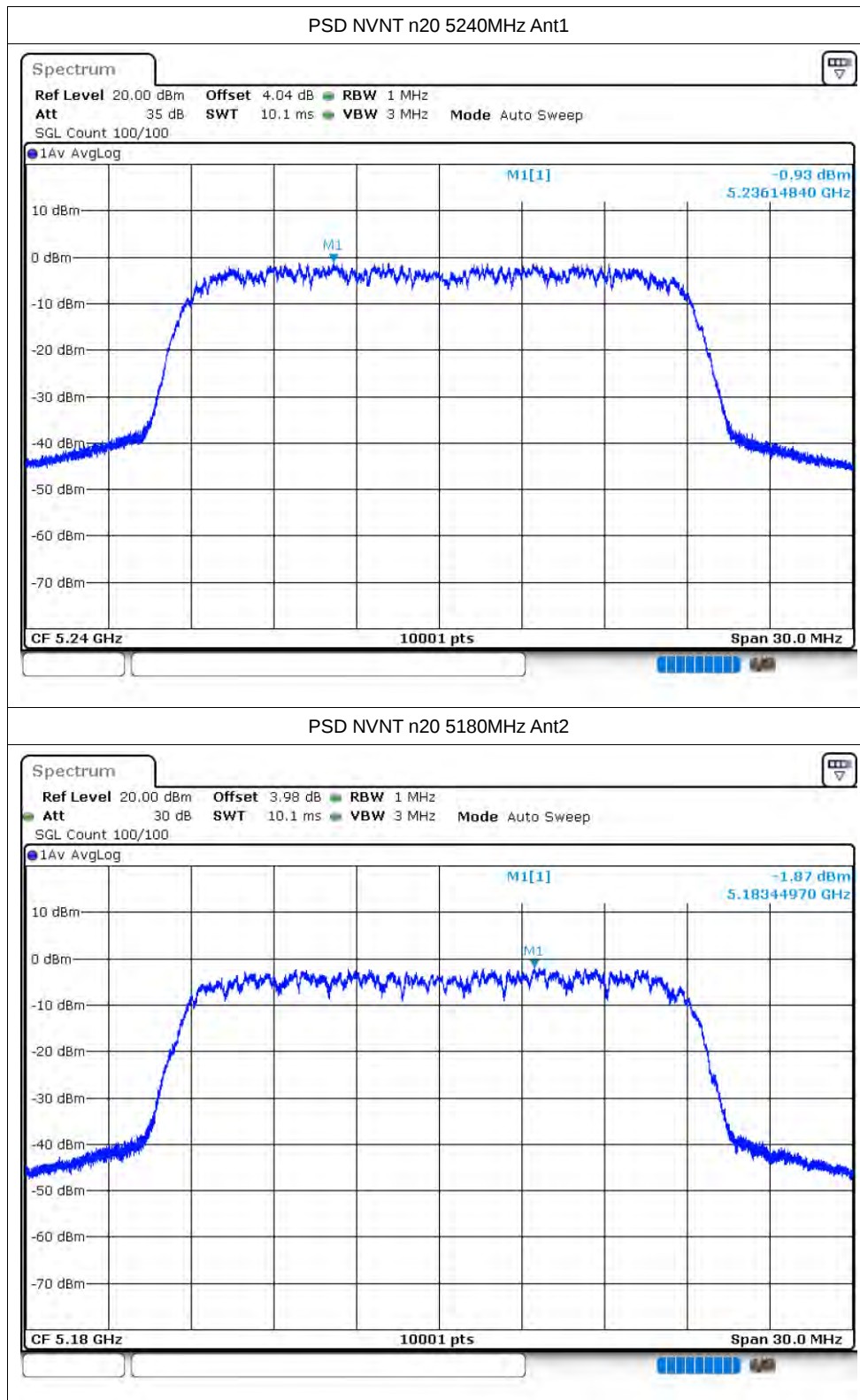


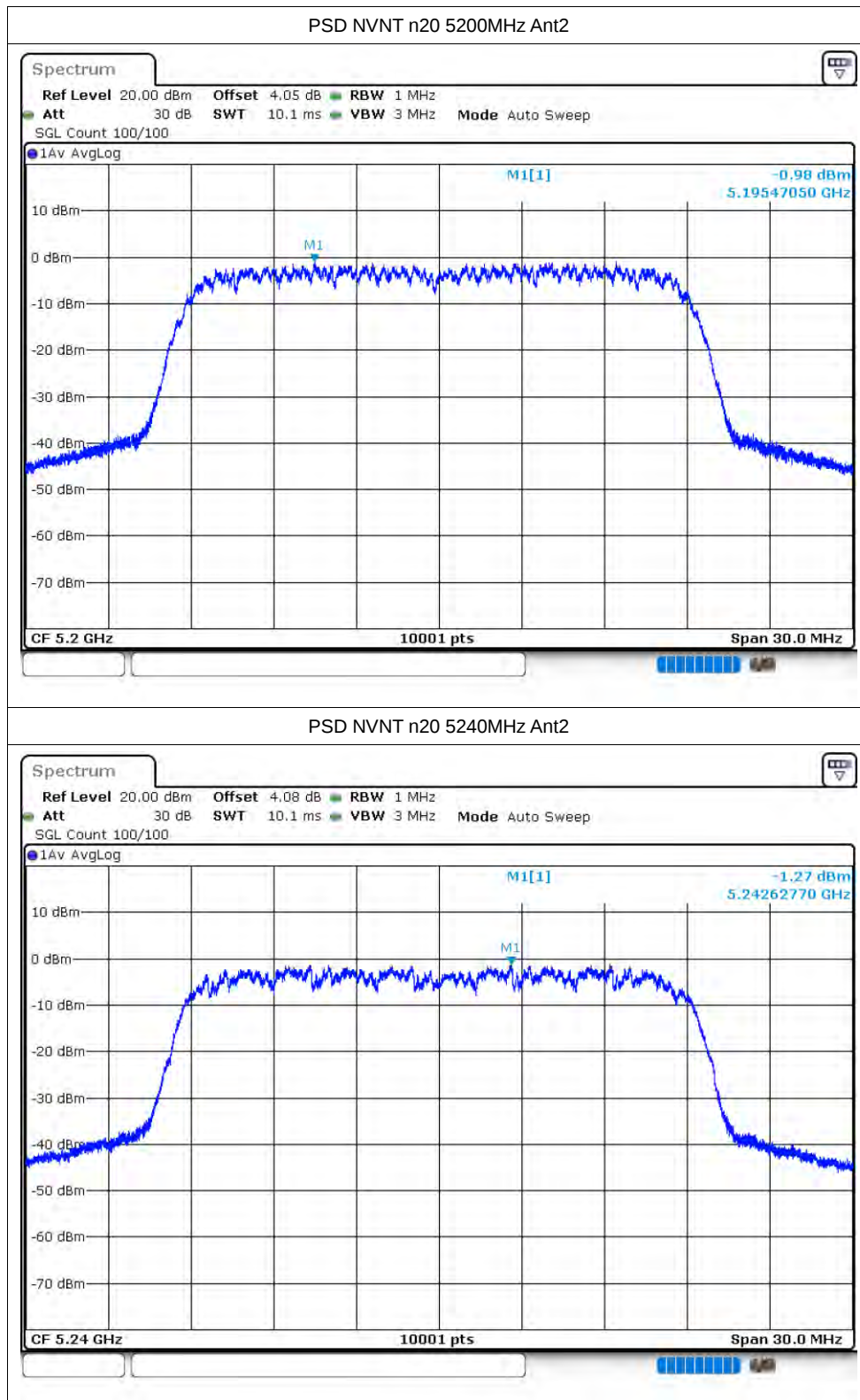
PSD NVNT a 5180MHz Ant2

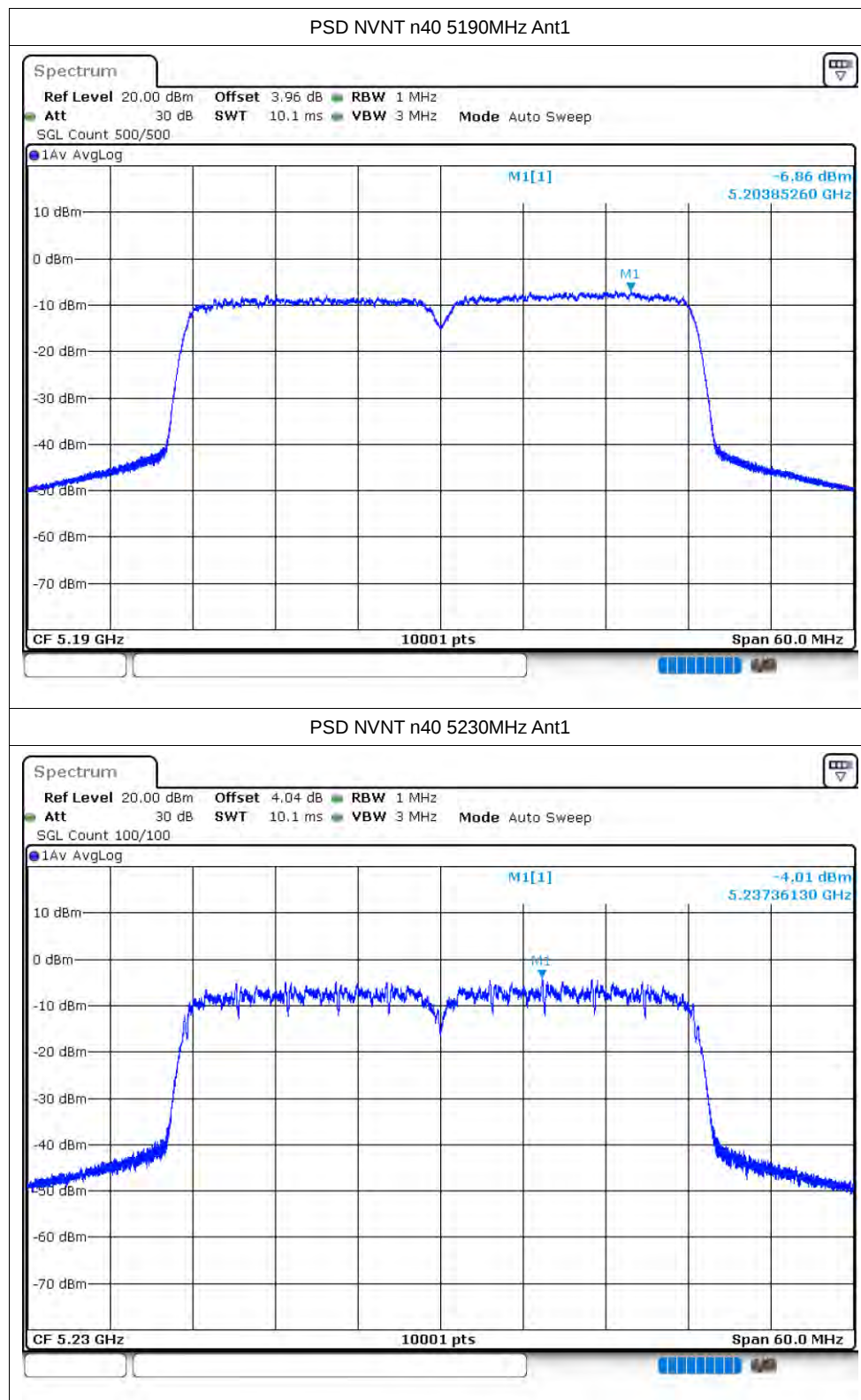


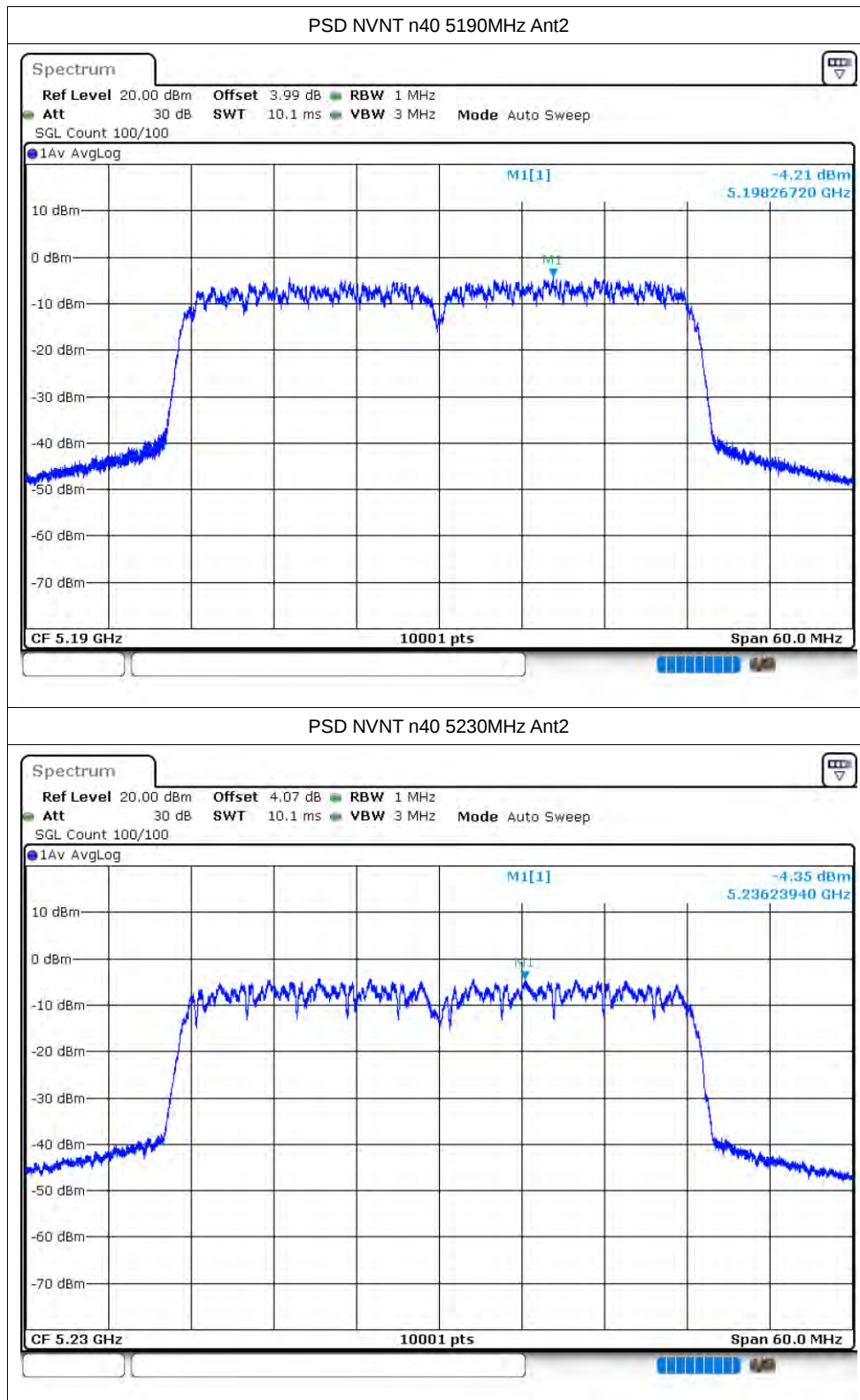












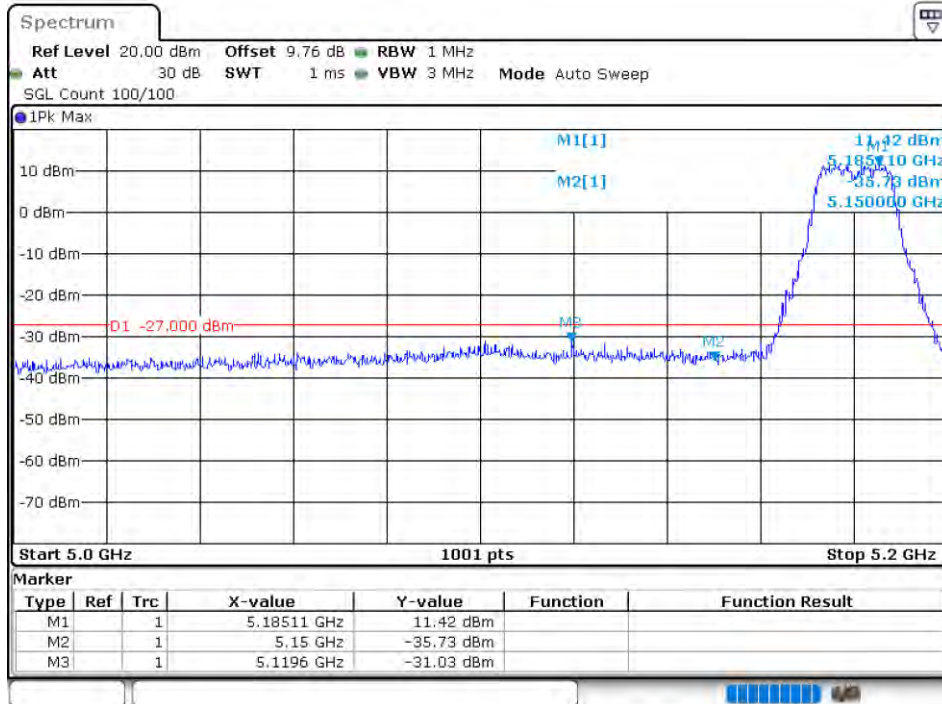
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-31.03	-27	Pass
NVNT	a	5240	Ant1	-29.22	-27	Pass
NVNT	a	5180	Ant2	-31.24	-27	Pass
NVNT	a	5240	Ant2	-31.05	-27	Pass
NVNT	n20	5180	Ant1	-32.48	-27	Pass
NVNT	n20	5240	Ant1	-30.35	-27	Pass
NVNT	n20	5180	Ant2	-31.41	-27	Pass
NVNT	n20	5240	Ant2	-31.85	-27	Pass
NVNT	n40	5190	Ant1	-32.7	-27	Pass
NVNT	n40	5230	Ant1	-31.12	-27	Pass
NVNT	n40	5190	Ant2	-31.08	-27	Pass
NVNT	n40	5230	Ant2	-31.87	-27	Pass

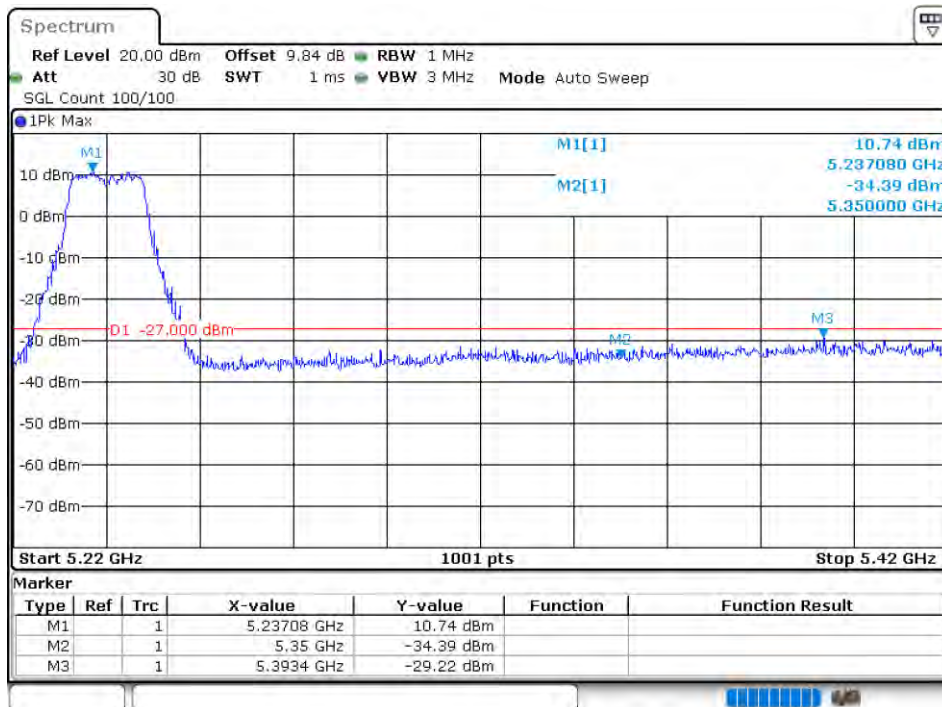
Note: This test has increased antenna gain .

Test Graphs

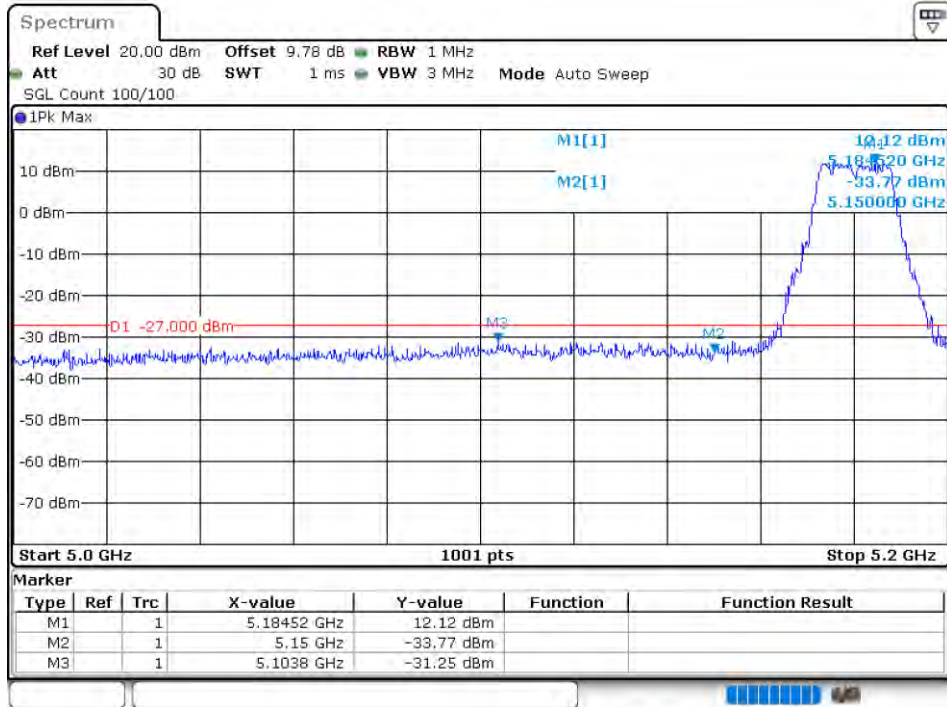
Band Edge NVNT a 5180MHz Low Ant1



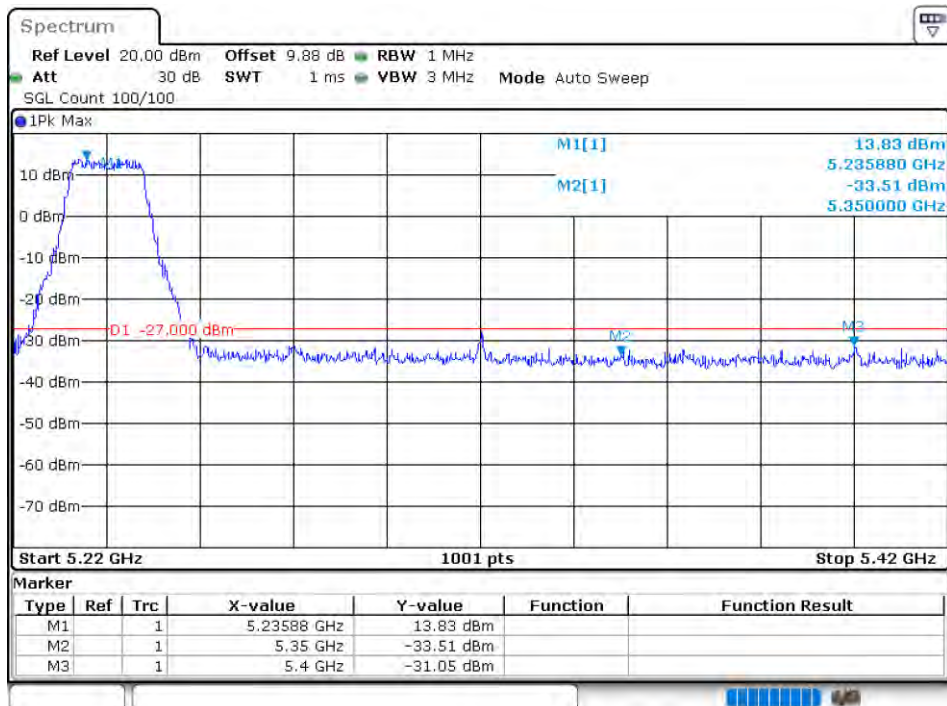
Band Edge NVNT a 5240MHz High Ant1



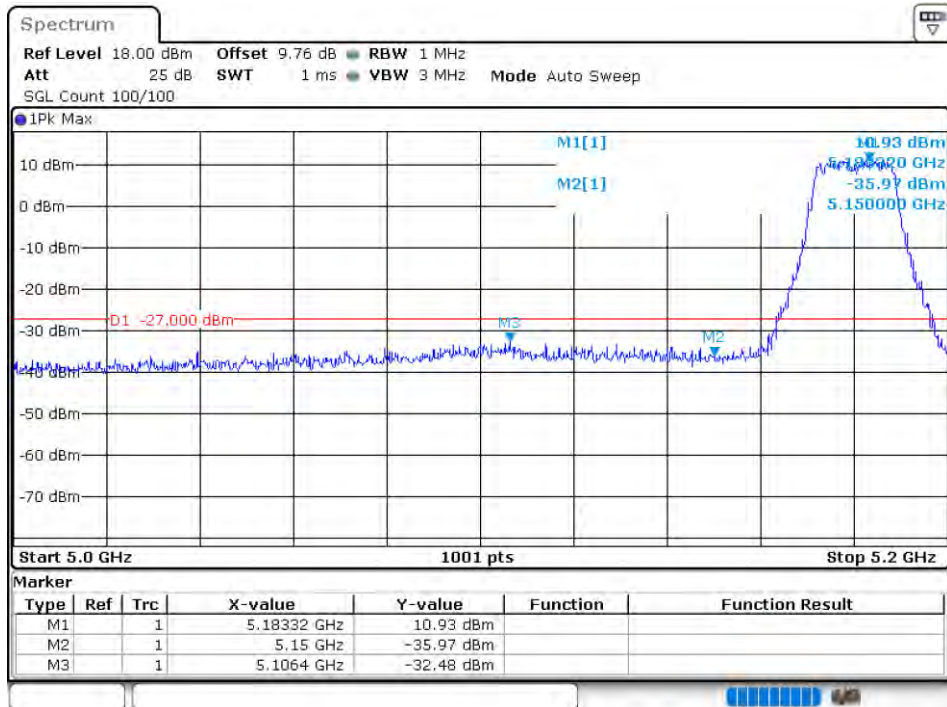
Band Edge NVNT a 5180MHz Low Ant2



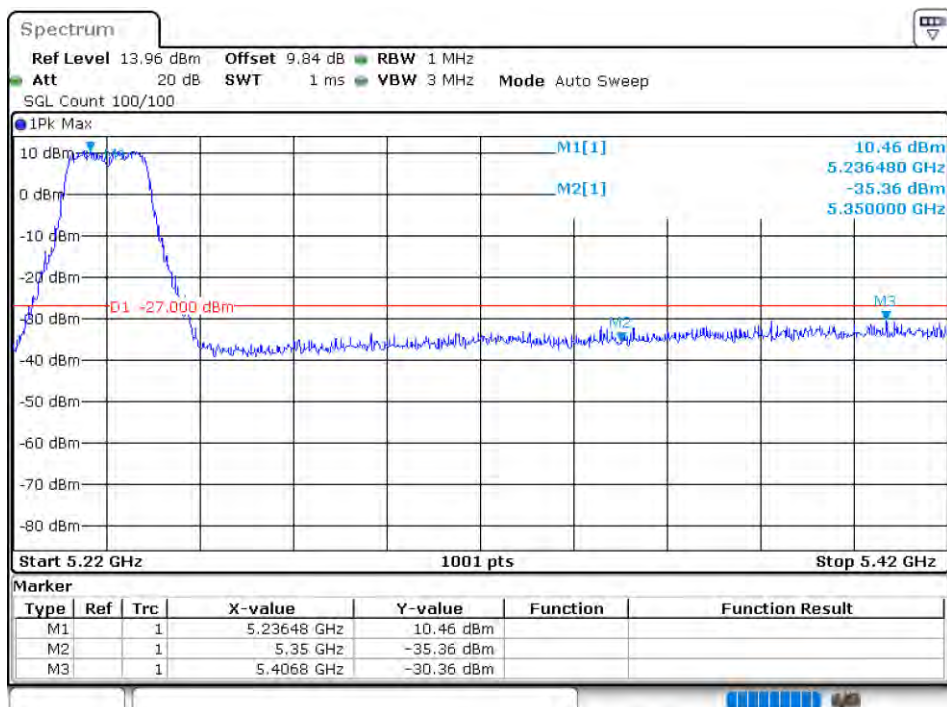
Band Edge NVNT a 5240MHz High Ant2



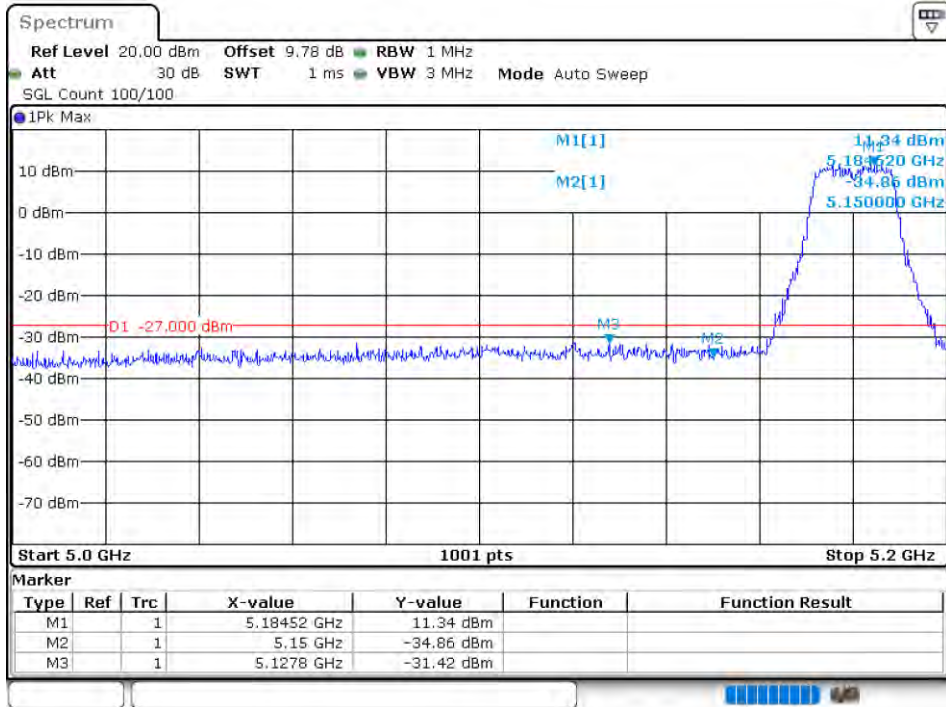
Band Edge NVNT n20 5180MHz Low Ant1



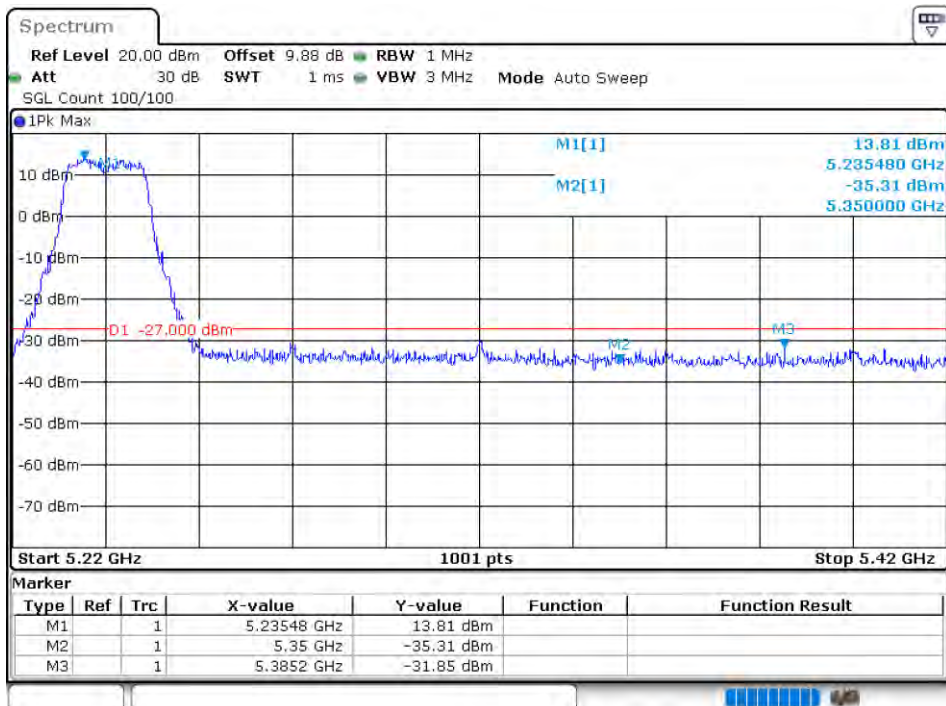
Band Edge NVNT n20 5240MHz High Ant1



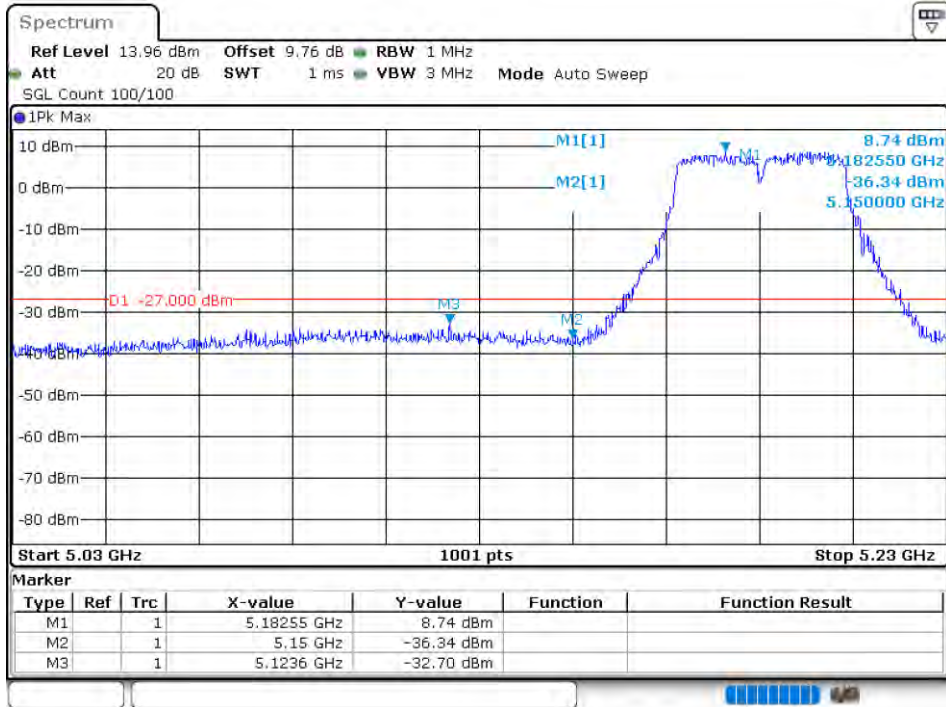
Band Edge NVNT n20 5180MHz Low Ant2



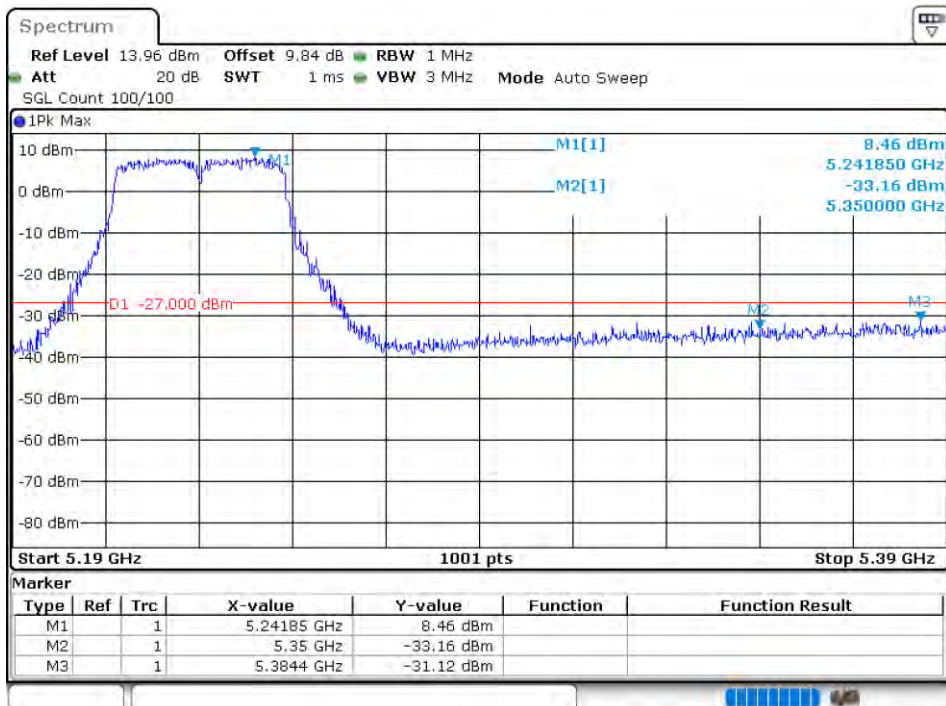
Band Edge NVNT n20 5240MHz High Ant2



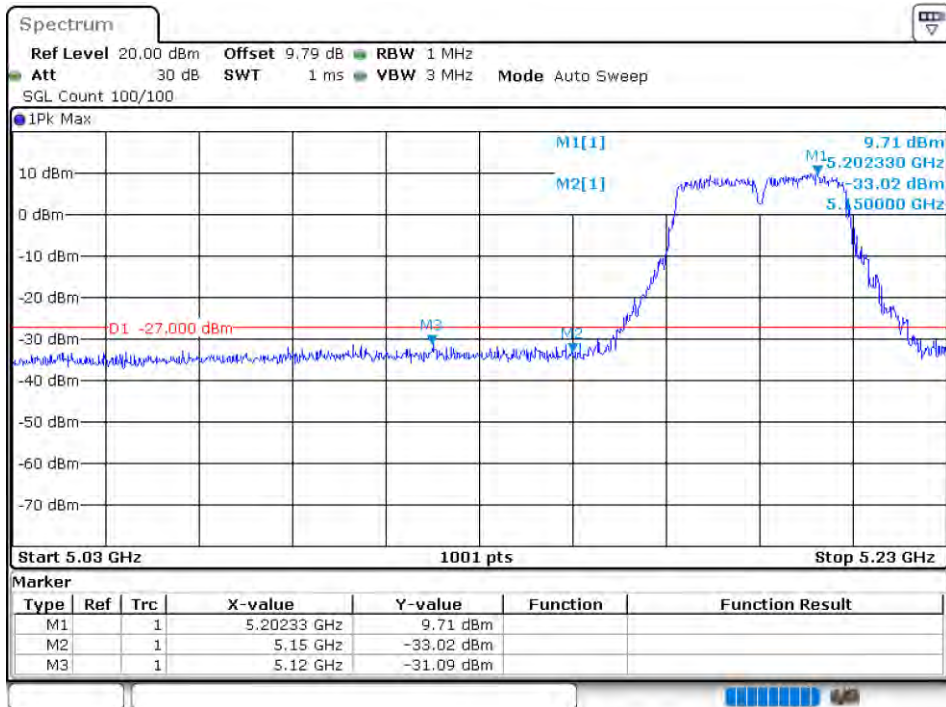
Band Edge NVNT n40 5190MHz Low Ant1



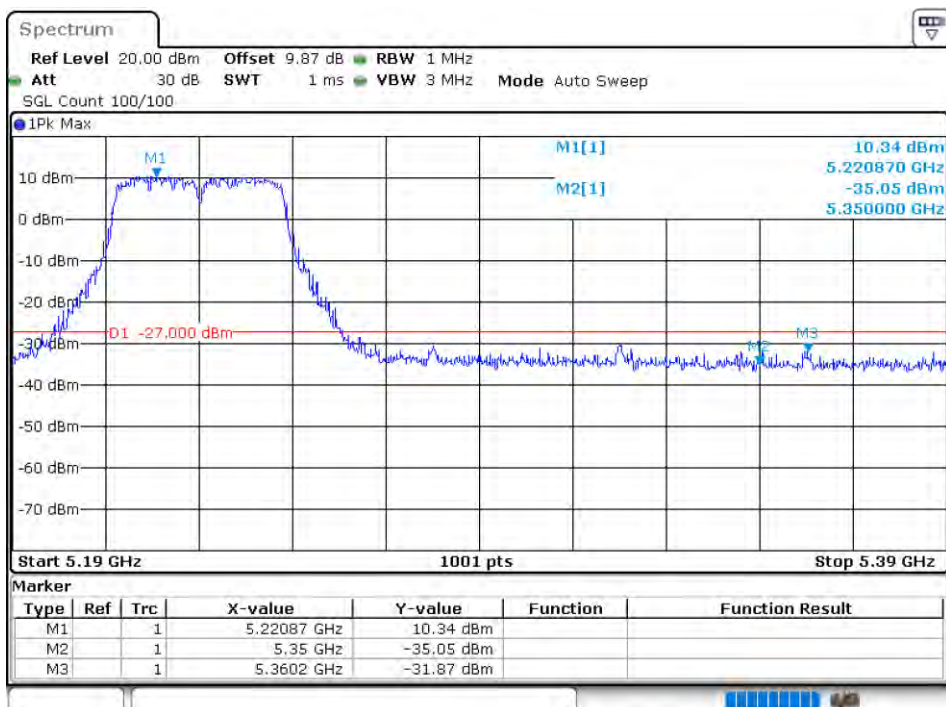
Band Edge NVNT n40 5230MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant2



Band Edge NVNT n40 5230MHz High Ant2



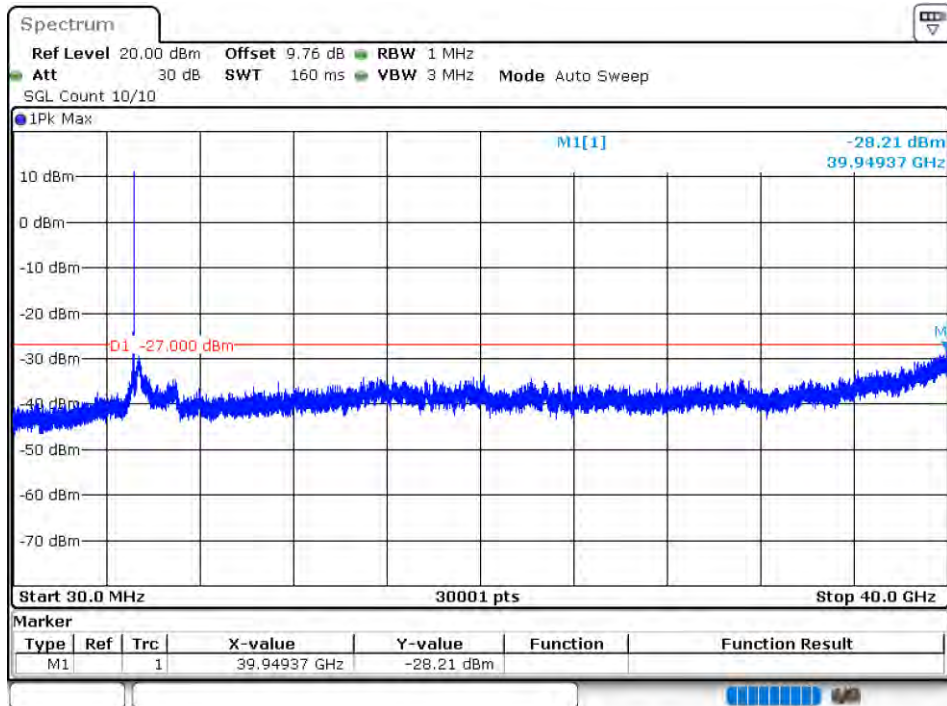
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-28.21	-27	Pass
NVNT	a	5200	Ant1	-27.62	-27	Pass
NVNT	a	5240	Ant1	-28.93	-27	Pass
NVNT	a	5180	Ant2	-27.89	-27	Pass
NVNT	a	5200	Ant2	-28.43	-27	Pass
NVNT	a	5240	Ant2	-28.63	-27	Pass
NVNT	n20	5180	Ant1	-28.77	-27	Pass
NVNT	n20	5200	Ant1	-30.08	-27	Pass
NVNT	n20	5240	Ant1	-31.57	-27	Pass
NVNT	n20	5180	Ant2	-28.8	-27	Pass
NVNT	n20	5200	Ant2	-27.73	-27	Pass
NVNT	n20	5240	Ant2	-28.35	-27	Pass
NVNT	n40	5190	Ant1	-30.3	-27	Pass
NVNT	n40	5230	Ant1	-29.86	-27	Pass
NVNT	n40	5190	Ant2	-28.47	-27	Pass
NVNT	n40	5230	Ant2	-28.37	-27	Pass

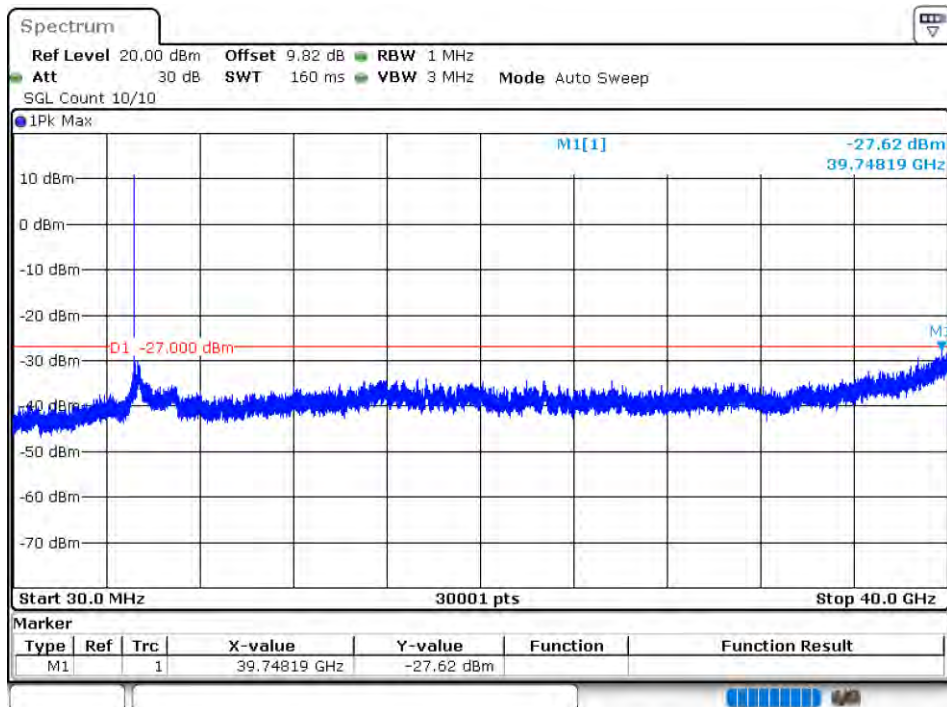
Note: This test has increased antenna gain .

Test Graphs

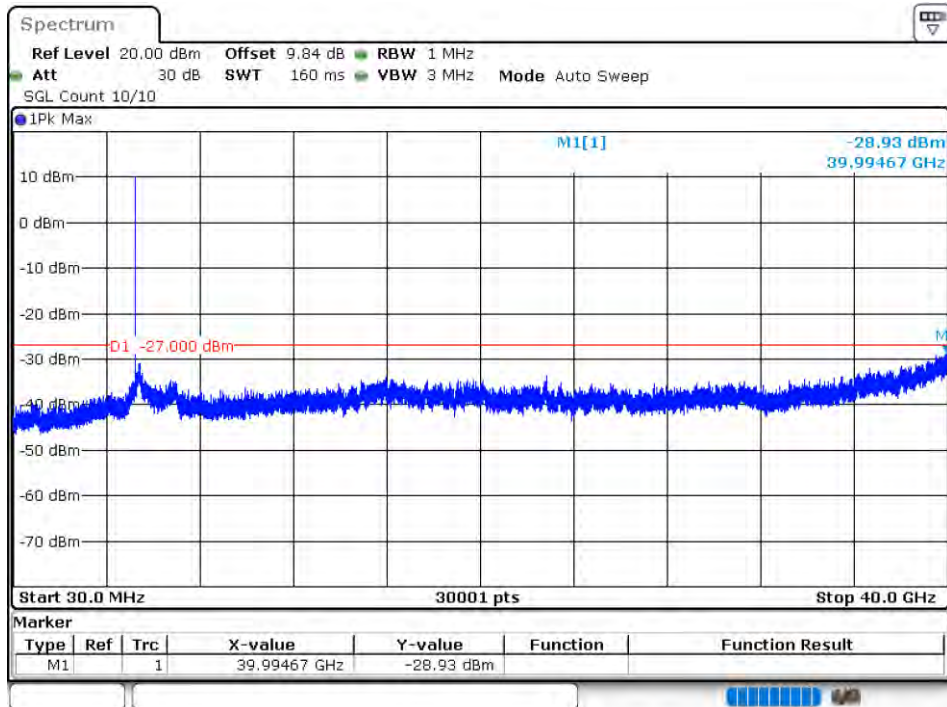
Tx. Spurious NVNT a 5180MHz Ant1 Emission



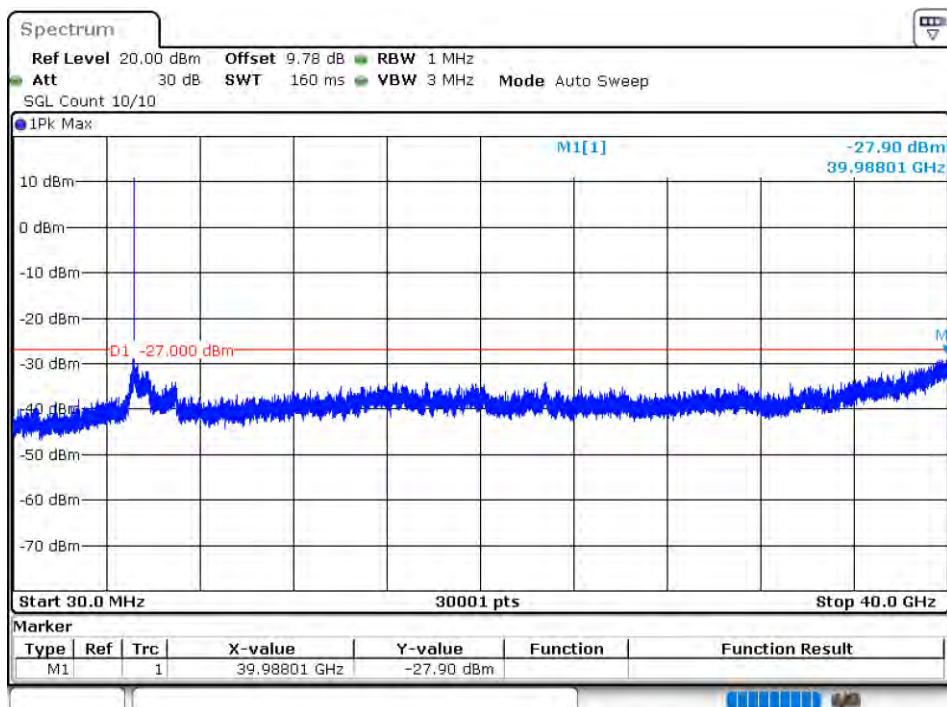
Tx. Spurious NVNT a 5200MHz Ant1 Emission



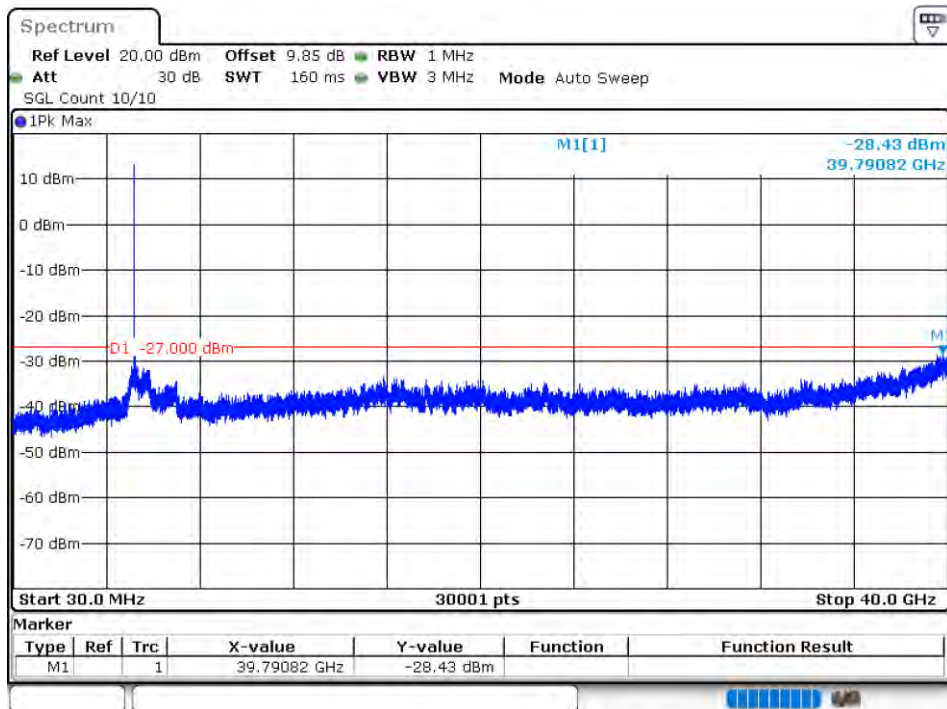
Tx. Spurious NVNT a 5240MHz Ant1 Emission



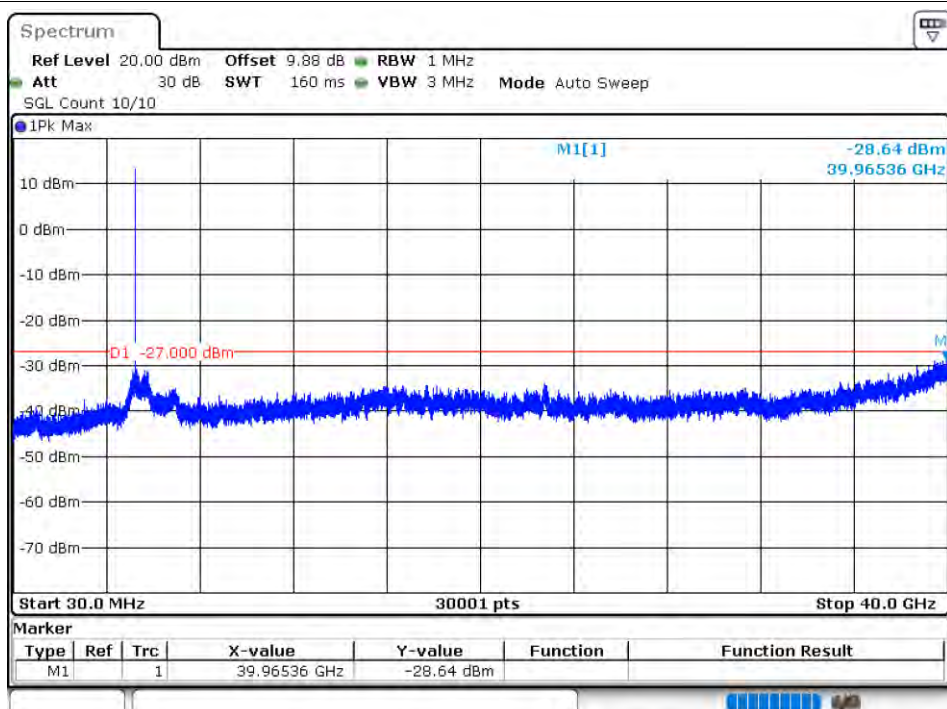
Tx. Spurious NVNT a 5180MHz Ant2 Emission



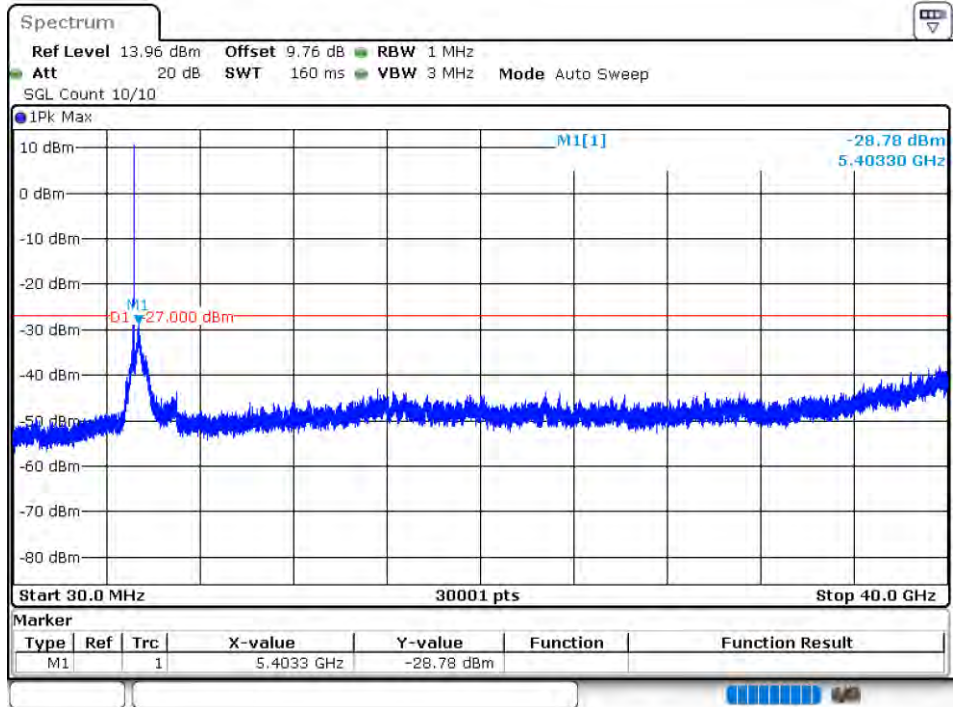
Tx. Spurious NVNT a 5200MHz Ant2 Emission



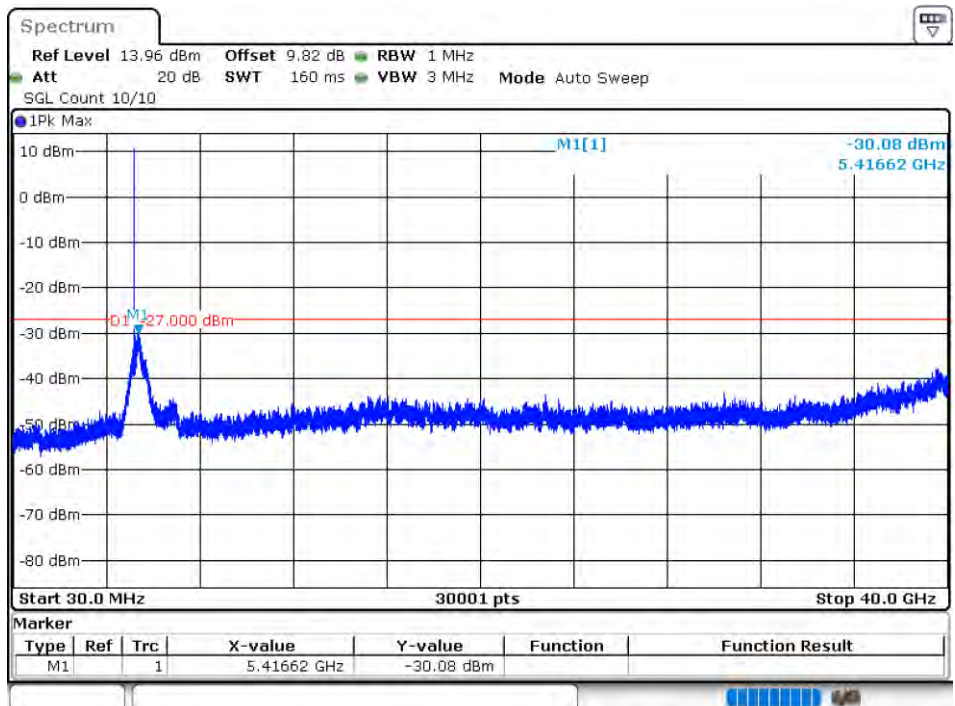
Tx. Spurious NVNT a 5240MHz Ant2 Emission



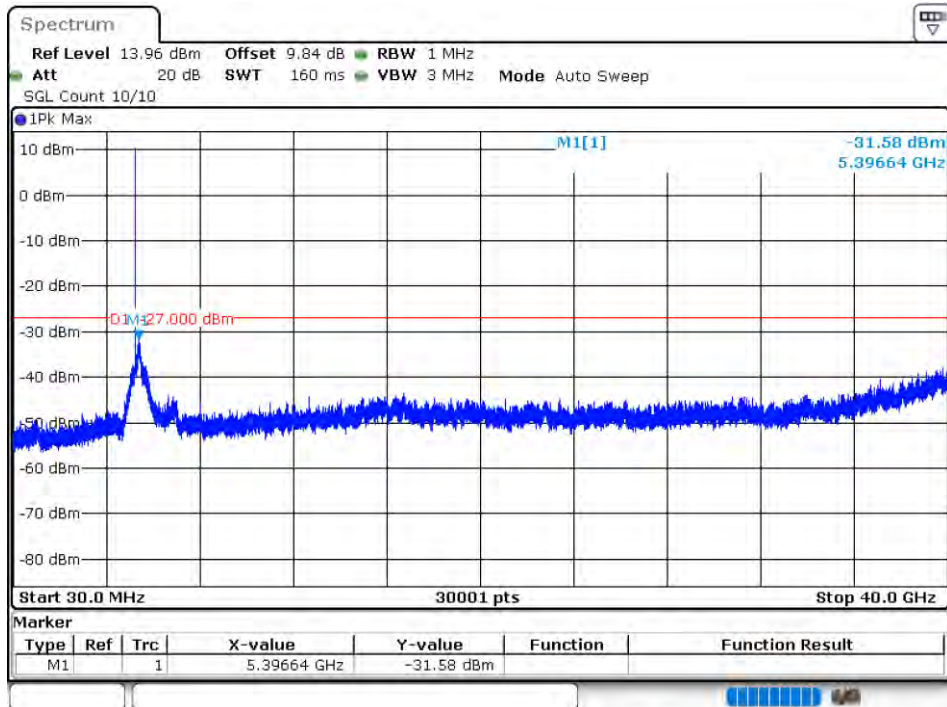
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



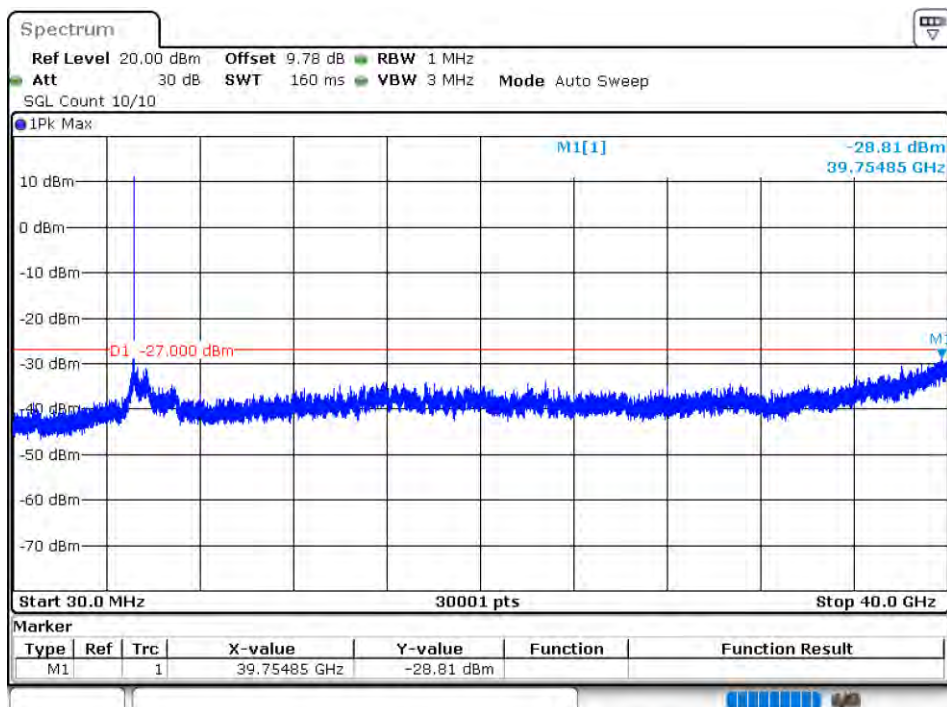
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



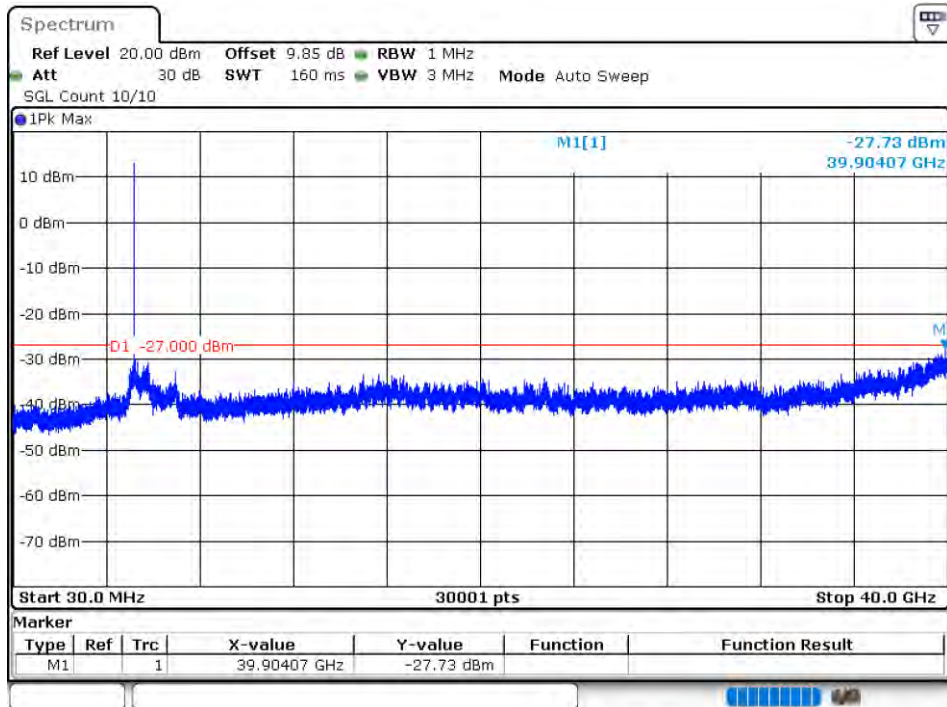
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



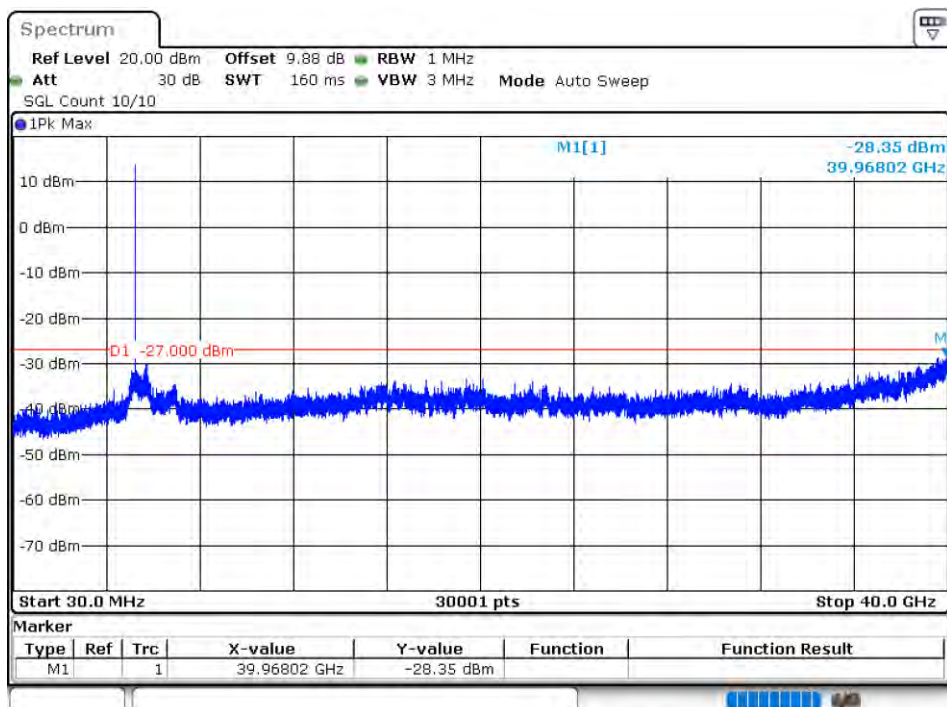
Tx. Spurious NVNT n20 5180MHz Ant2 Emission



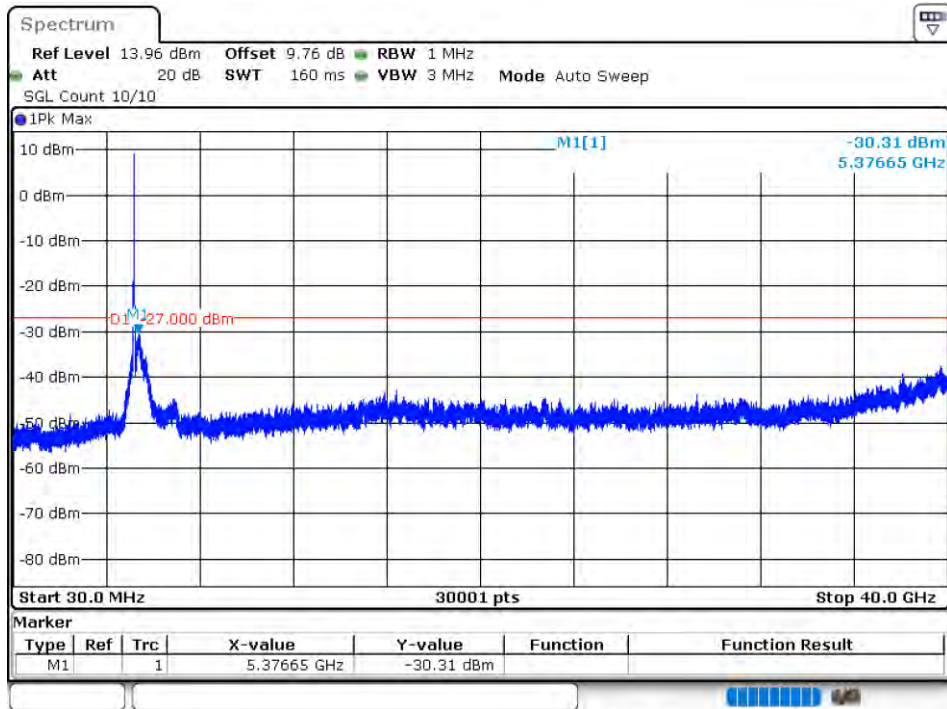
Tx. Spurious NVNT n20 5200MHz Ant2 Emission



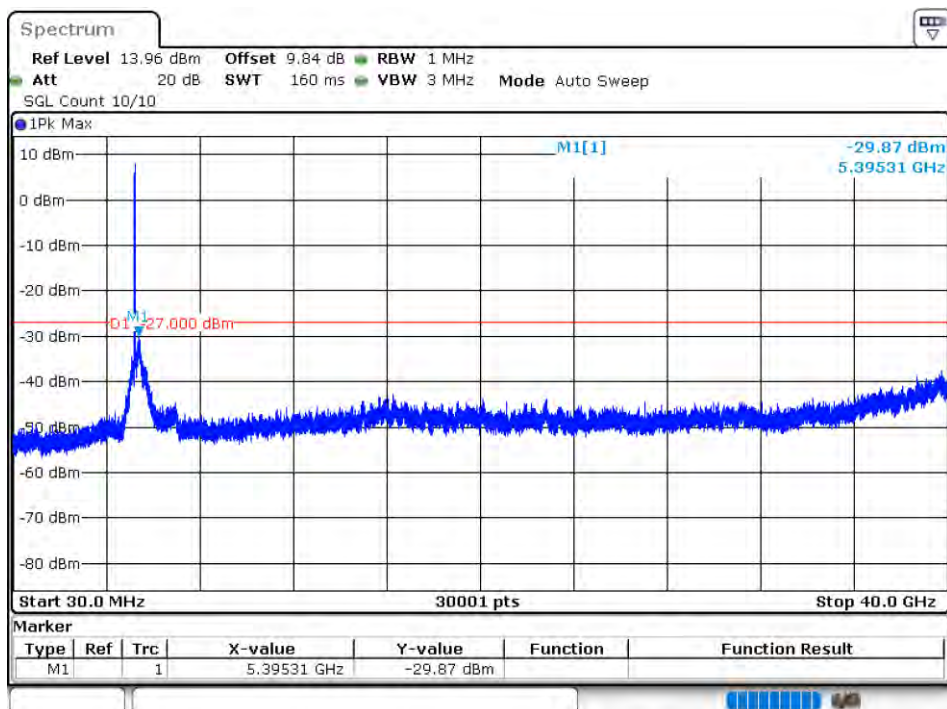
Tx. Spurious NVNT n20 5240MHz Ant2 Emission



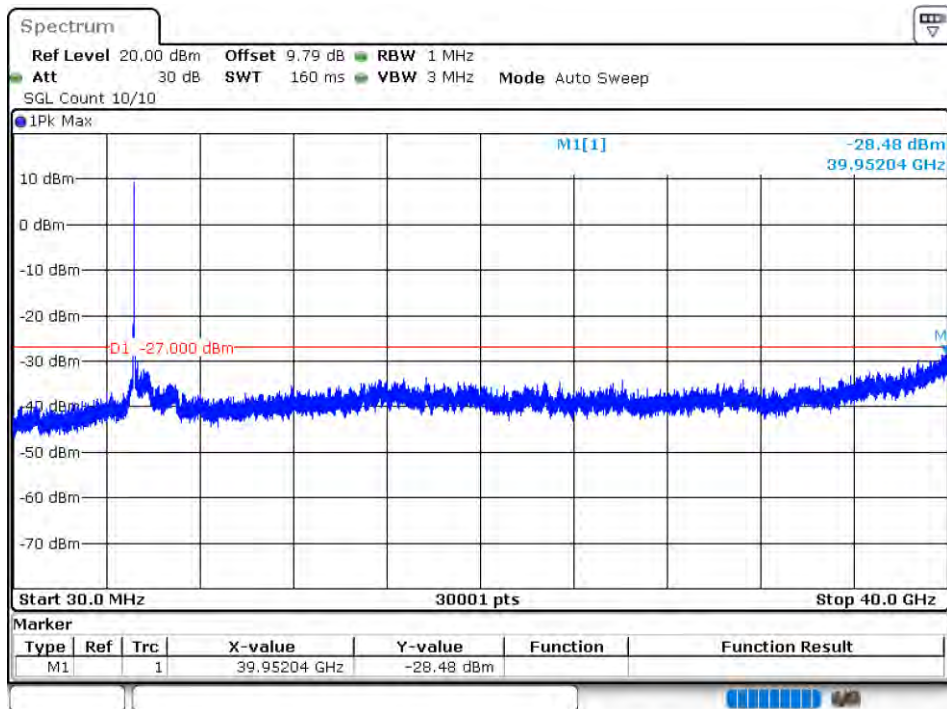
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



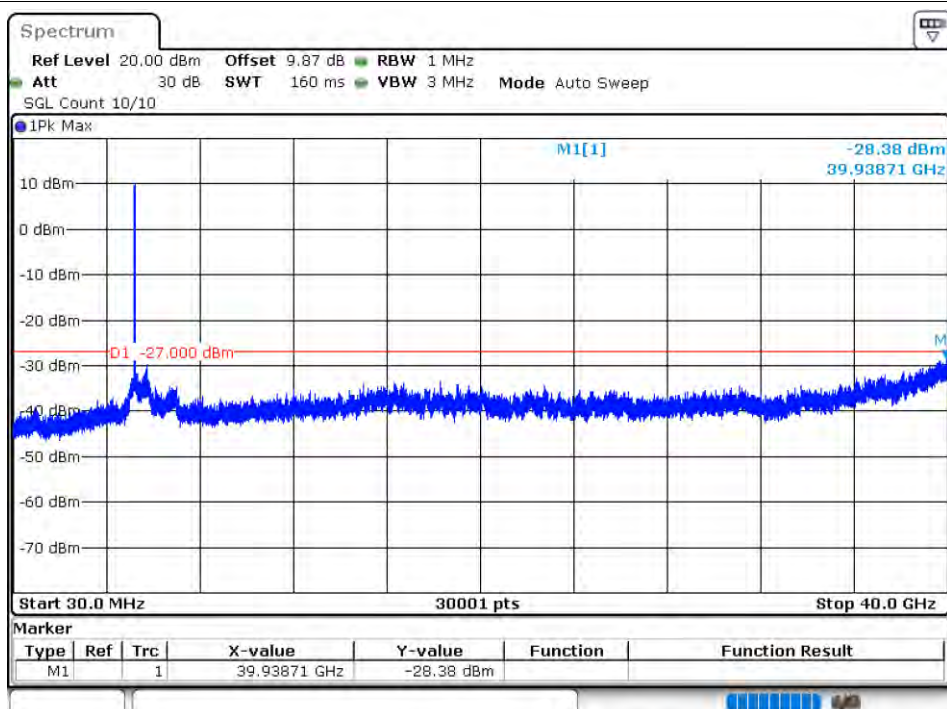
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant2 Emission



Tx. Spurious NVNT n40 5230MHz Ant2 Emission



5.2G-MIMO:

Maximum Conducted Output Power

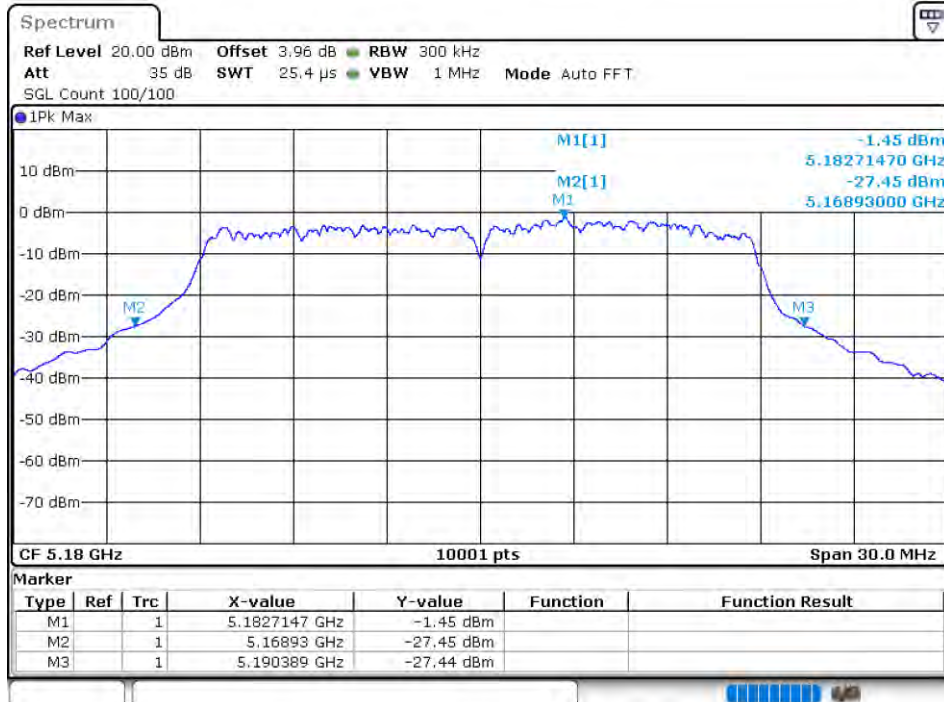
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant1	9.83	--	Pass
NVNT	n20	5180	Ant2	11.55	--	Pass
NVNT	n20	5180	Sum	13.78	21.42	Pass
NVNT	n20	5200	Ant1	9.79	--	Pass
NVNT	n20	5200	Ant2	11.72	--	Pass
NVNT	n20	5200	Sum	13.87	21.42	Pass
NVNT	n20	5240	Ant1	10.37	--	Pass
NVNT	n20	5240	Ant2	11.72	--	Pass
NVNT	n20	5240	Sum	14.11	21.42	Pass
NVNT	n40	5190	Ant1	9.88	--	Pass
NVNT	n40	5190	Ant2	11.74	--	Pass
NVNT	n40	5190	Sum	13.92	21.42	Pass
NVNT	n40	5230	Ant1	10.29	--	Pass
NVNT	n40	5230	Ant2	11.76	--	Pass
NVNT	n40	5230	Sum	14.1	21.42	Pass

-26dB Bandwidth

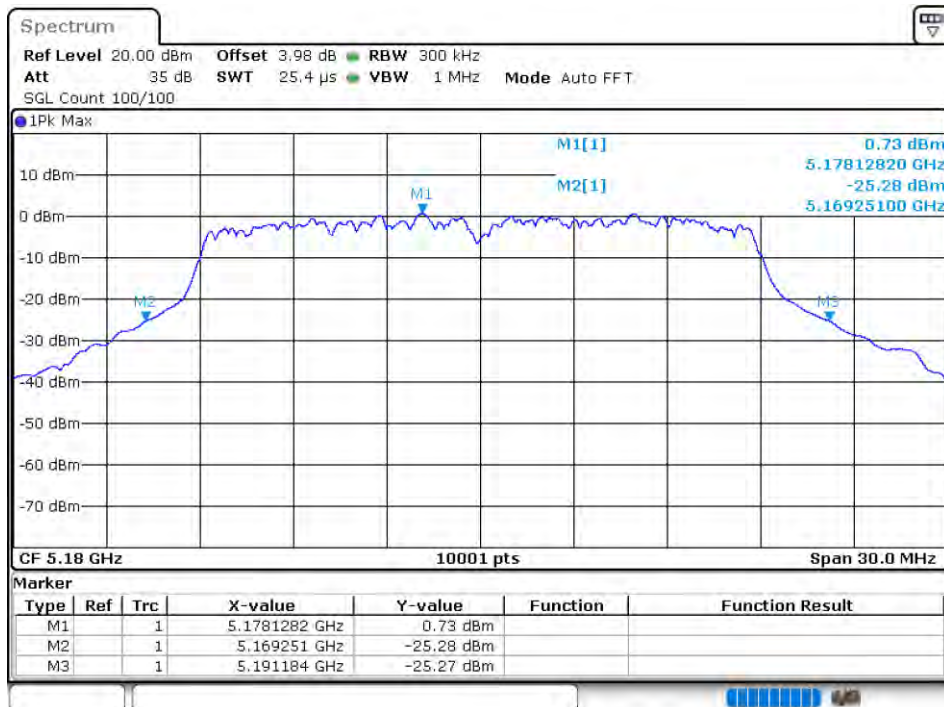
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	n20	5180	Ant1	21.459	Pass
NVNT	n20	5180	Ant2	21.933	Pass
NVNT	n20	5200	Ant1	22.74	Pass
NVNT	n20	5200	Ant2	21.48	Pass
NVNT	n20	5240	Ant1	22.689	Pass
NVNT	n20	5240	Ant2	22.446	Pass
NVNT	n40	5190	Ant1	46.752	Pass
NVNT	n40	5190	Ant2	45.594	Pass
NVNT	n40	5230	Ant1	46.578	Pass
NVNT	n40	5230	Ant2	48.036	Pass

Test Graphs

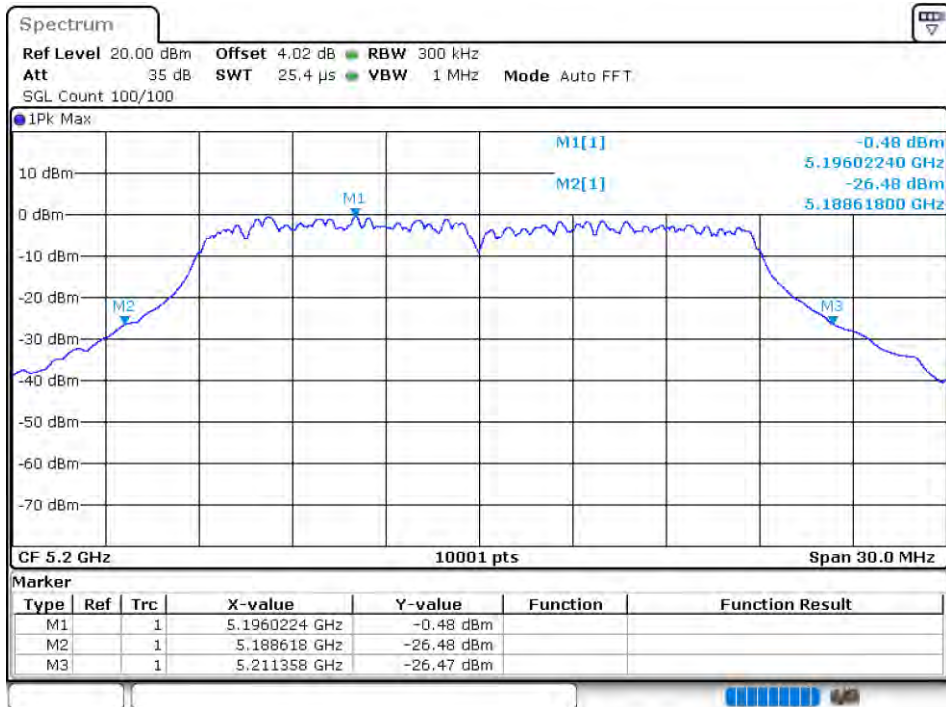
-26dB Bandwidth NVNT n20 5180MHz Ant1



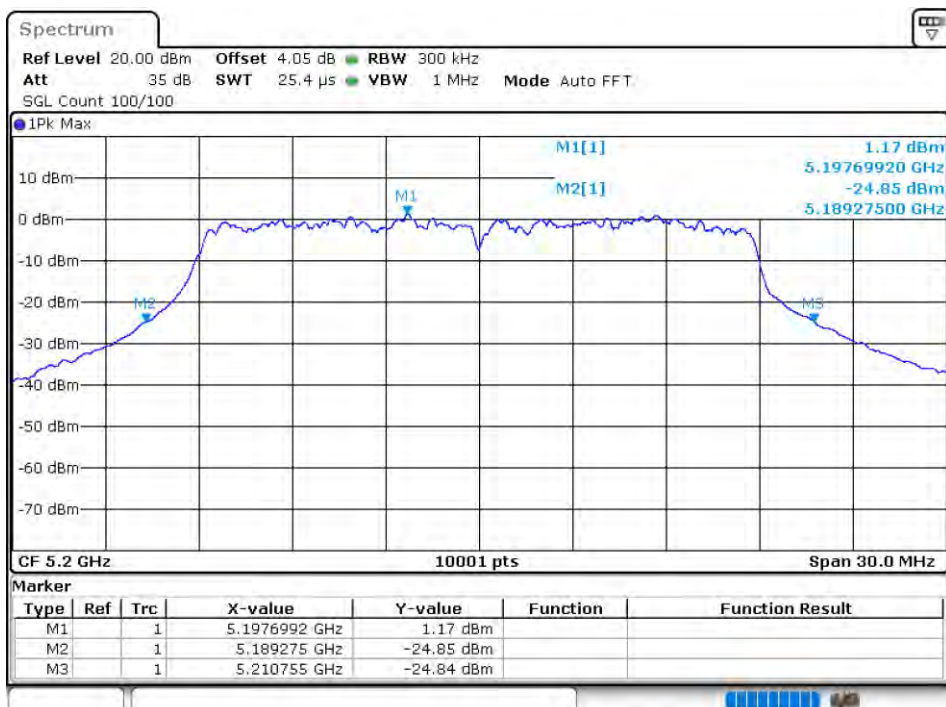
-26dB Bandwidth NVNT n20 5180MHz Ant2



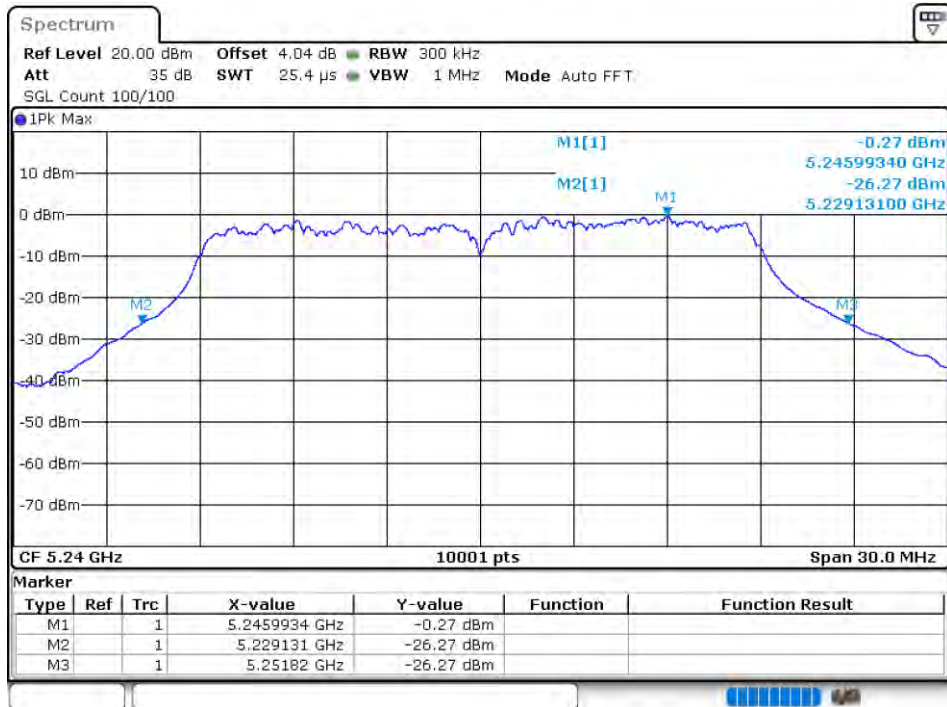
-26dB Bandwidth NVNT n20 5200MHz Ant1



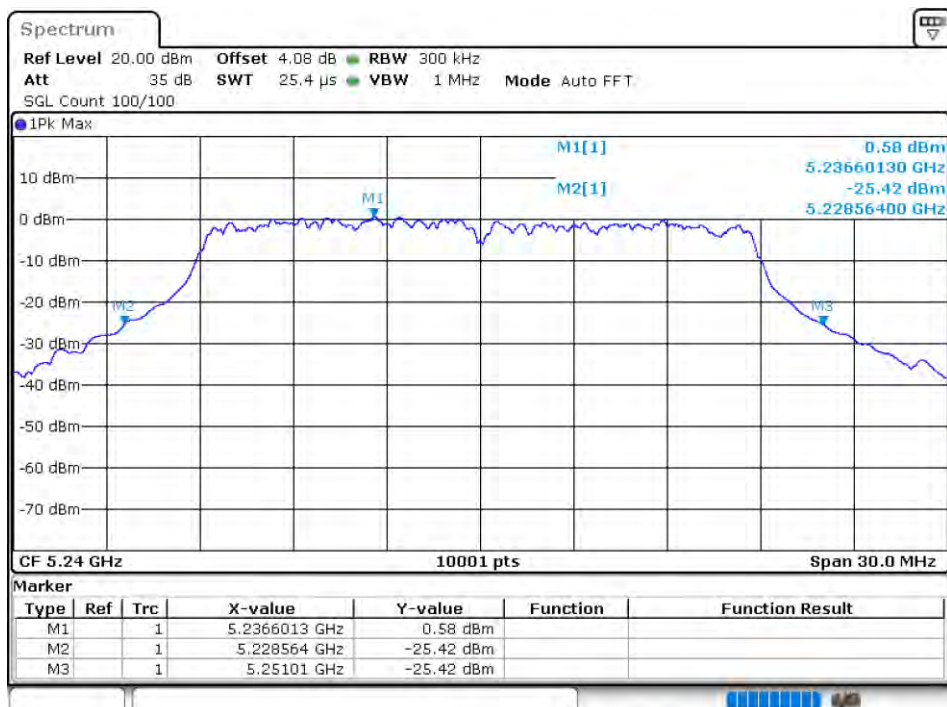
-26dB Bandwidth NVNT n20 5200MHz Ant2



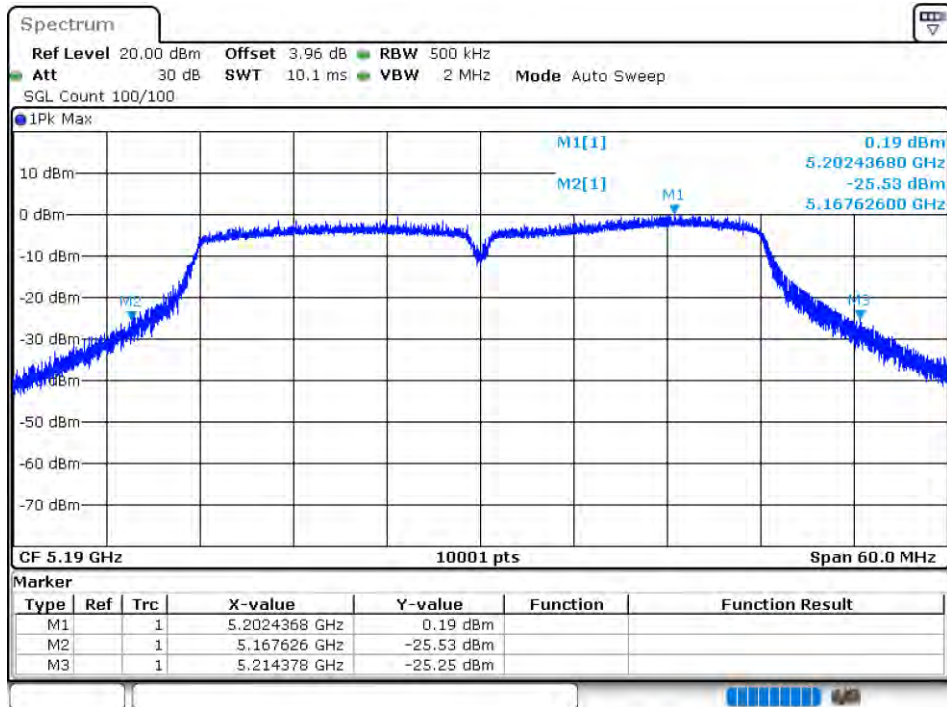
-26dB Bandwidth NVNT n20 5240MHz Ant1



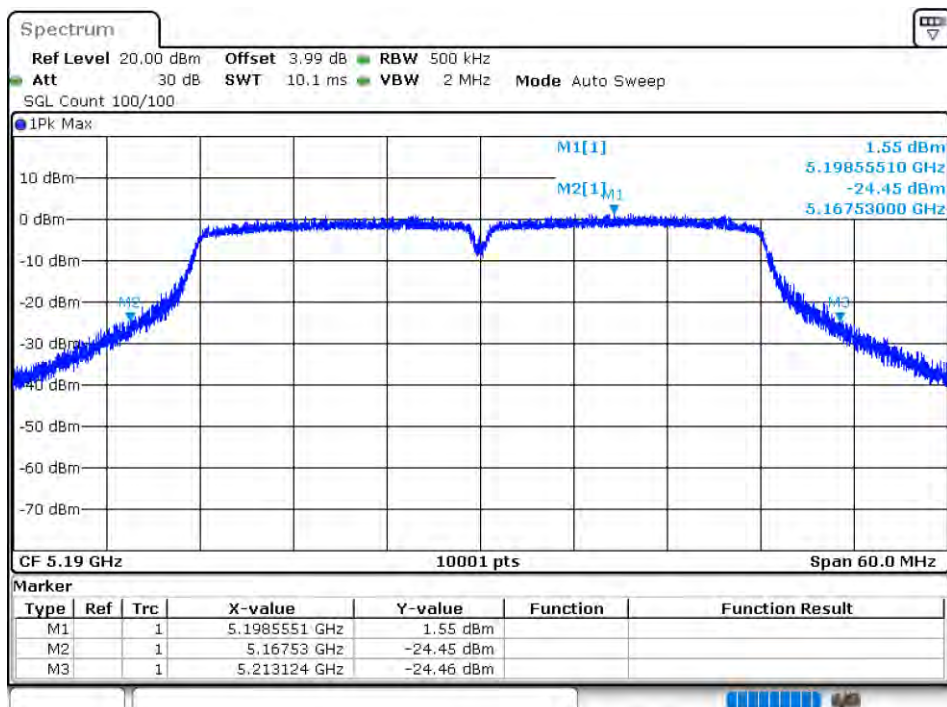
-26dB Bandwidth NVNT n20 5240MHz Ant2



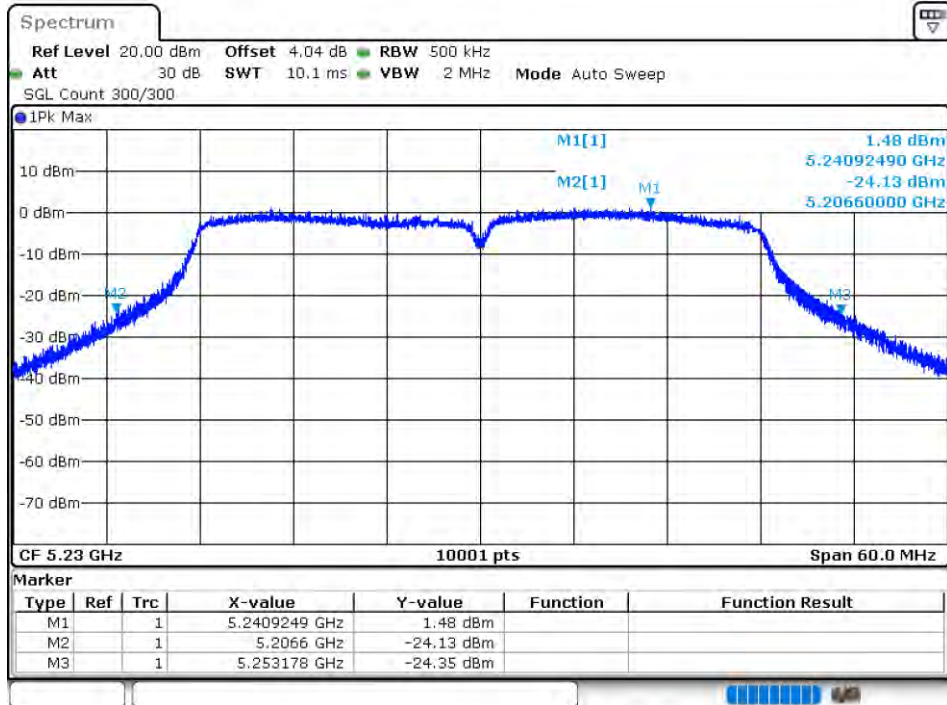
-26dB Bandwidth NVNT n40 5190MHz Ant1



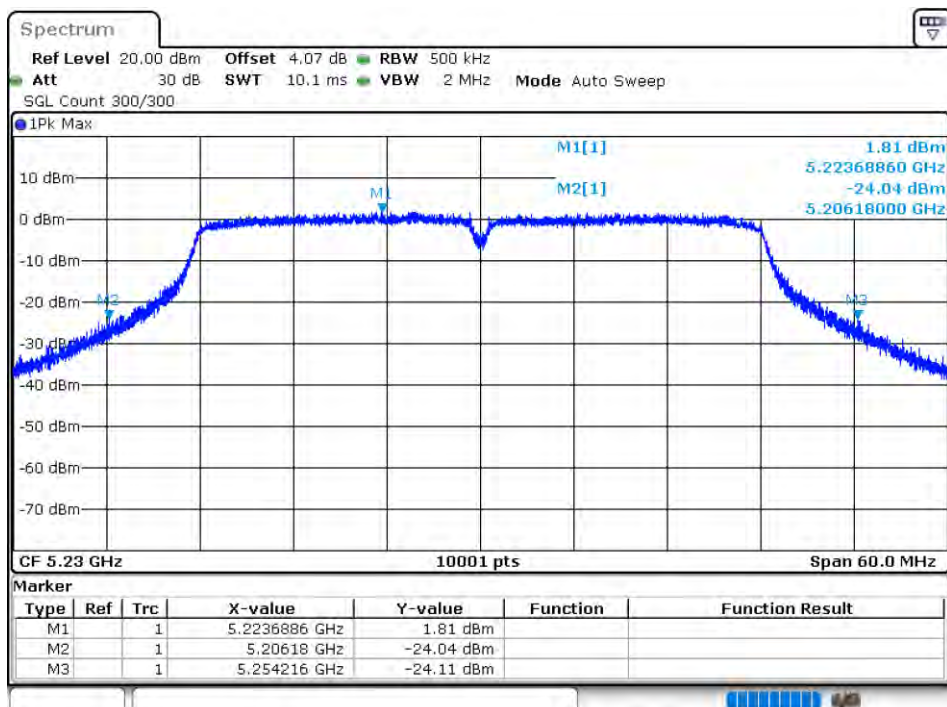
-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant2

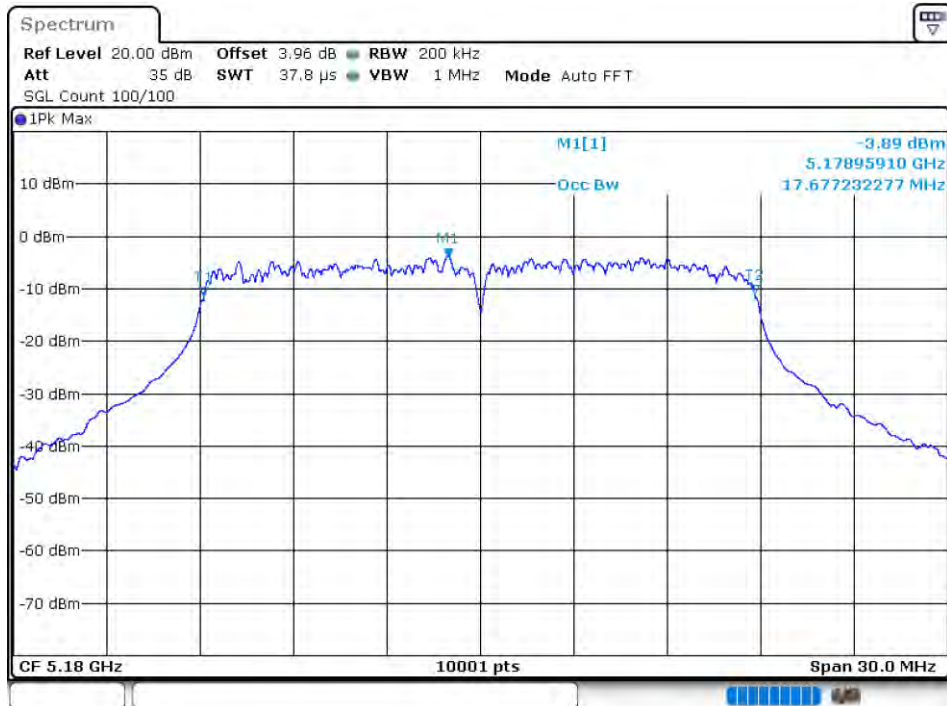


Occupied Channel Bandwidth

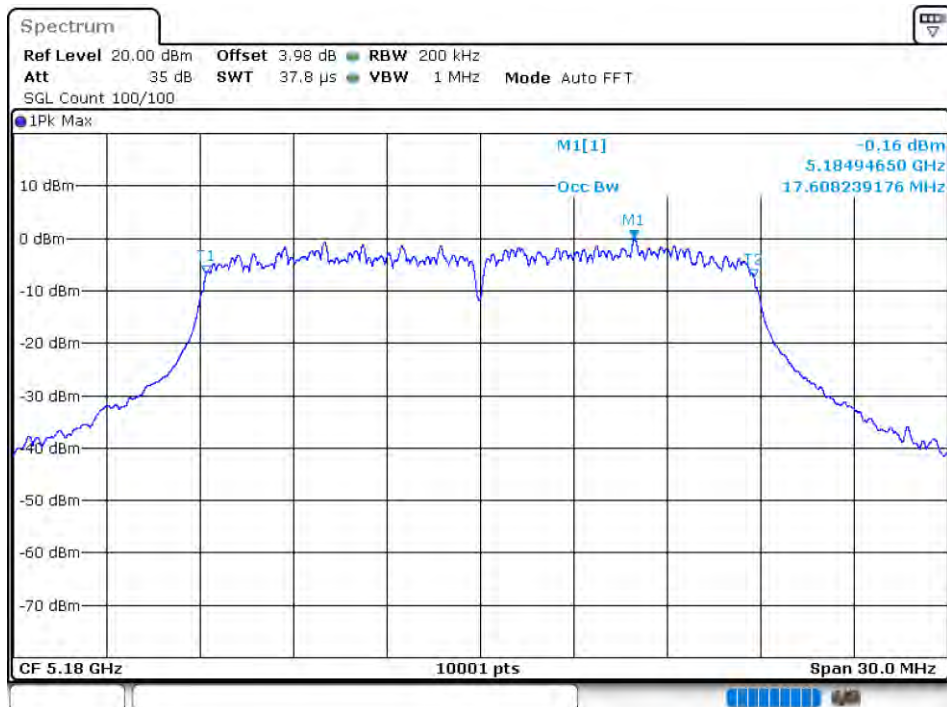
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	n20	5180	Ant1	17.677
NVNT	n20	5180	Ant2	17.608
NVNT	n20	5200	Ant1	17.638
NVNT	n20	5200	Ant2	17.629
NVNT	n20	5240	Ant1	17.731
NVNT	n20	5240	Ant2	17.635
NVNT	n40	5190	Ant1	36.704
NVNT	n40	5190	Ant2	36.398
NVNT	n40	5230	Ant1	36.692
NVNT	n40	5230	Ant2	36.482

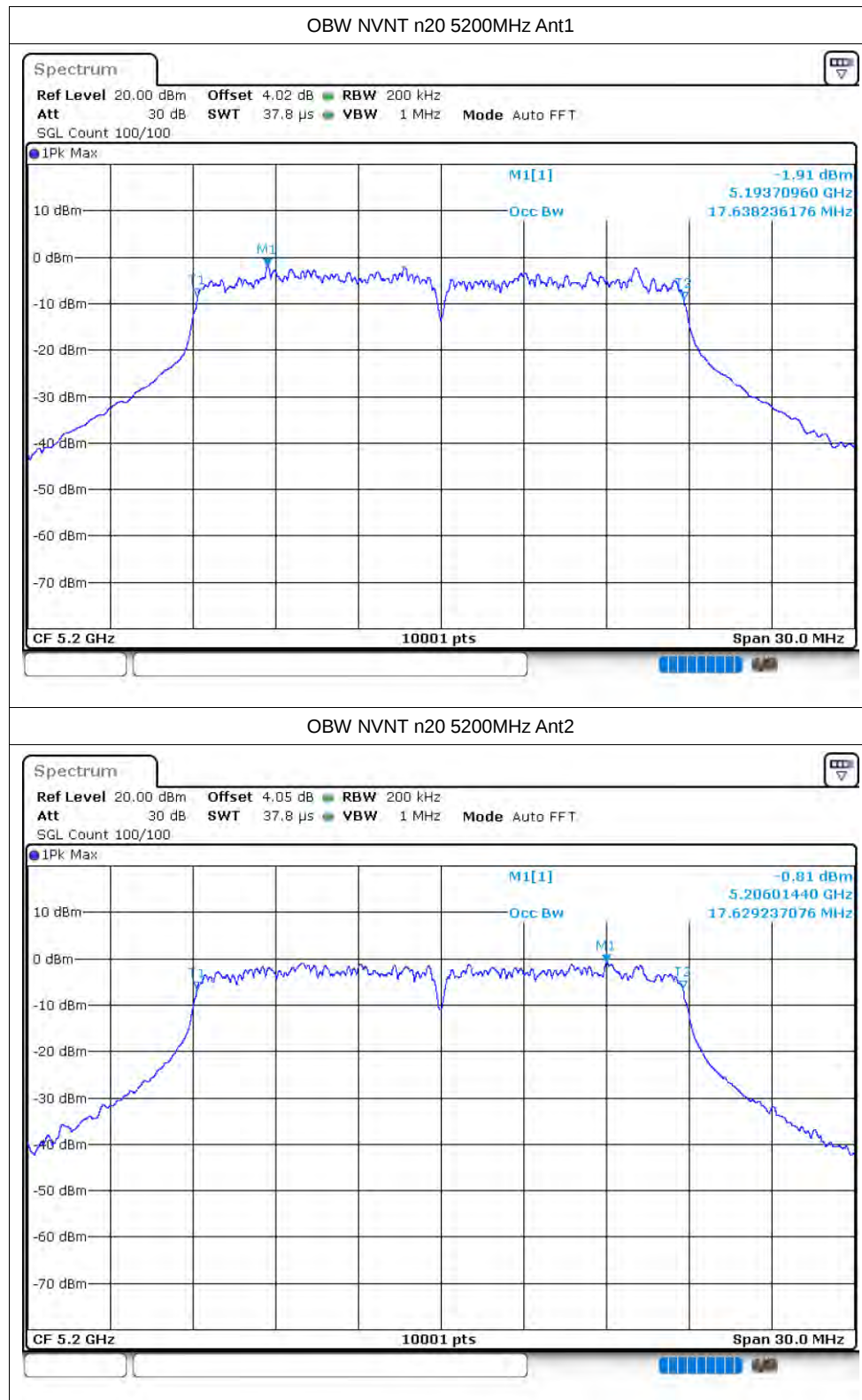
Test Graphs

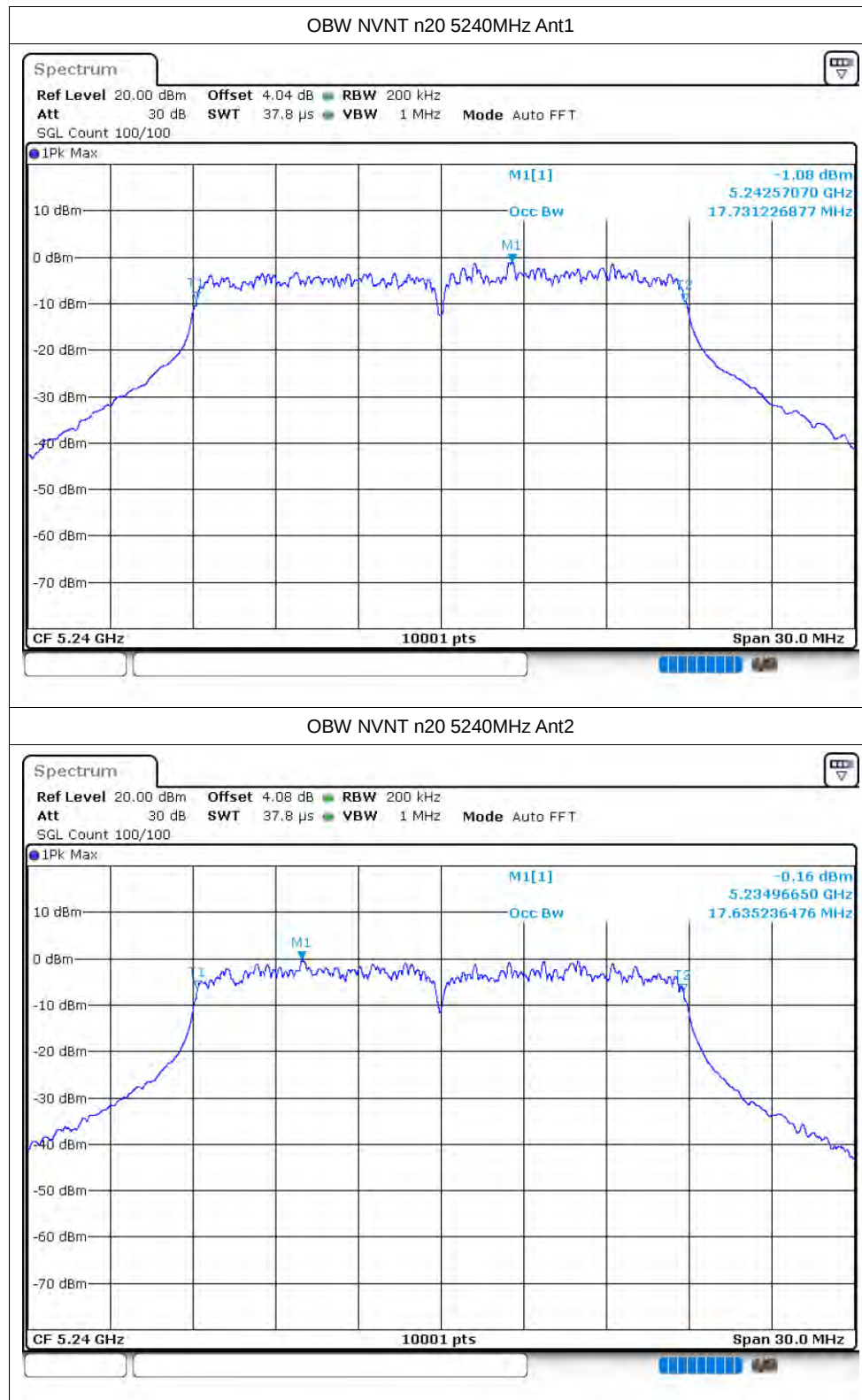
OBW NVNT n20 5180MHz Ant1

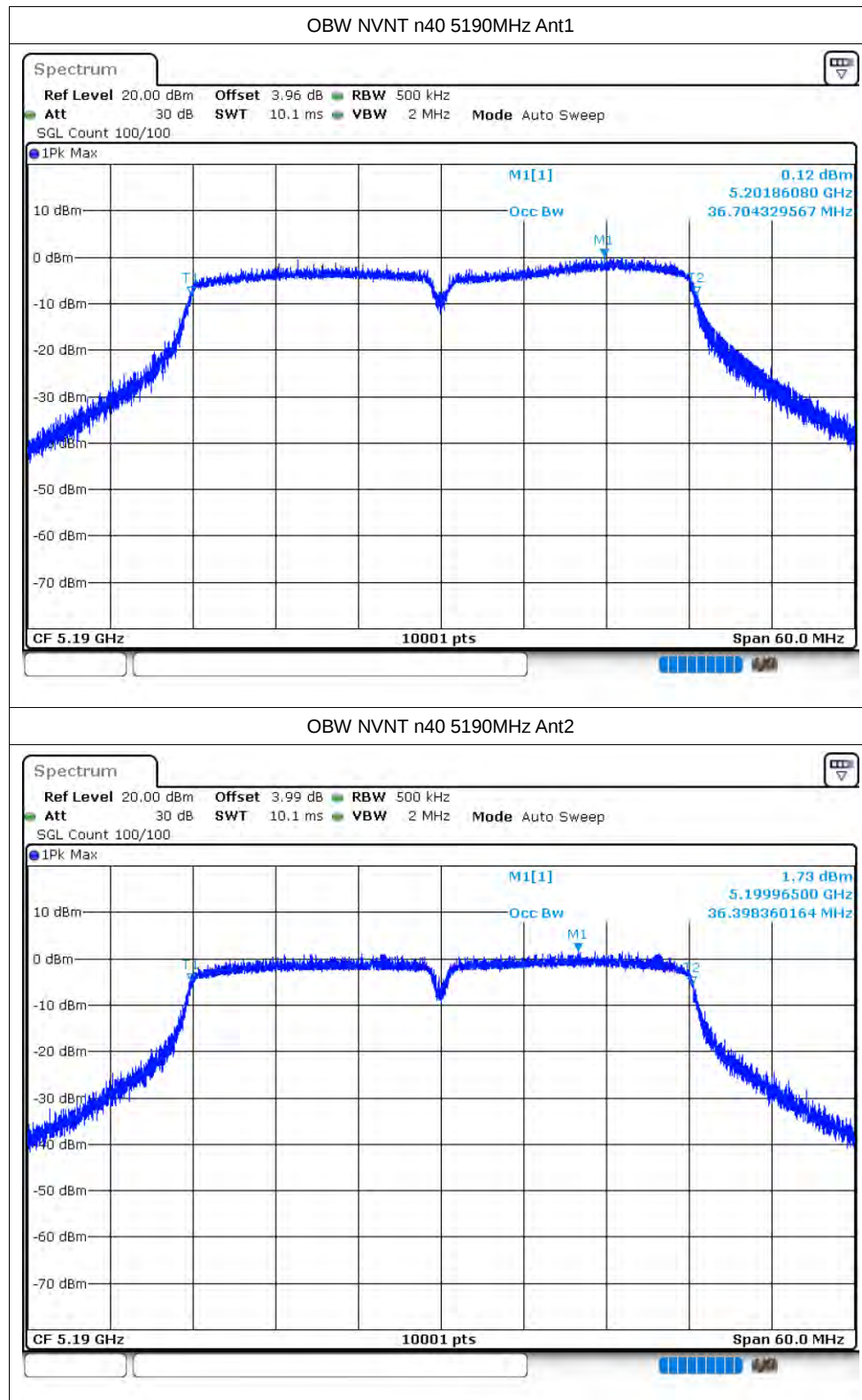


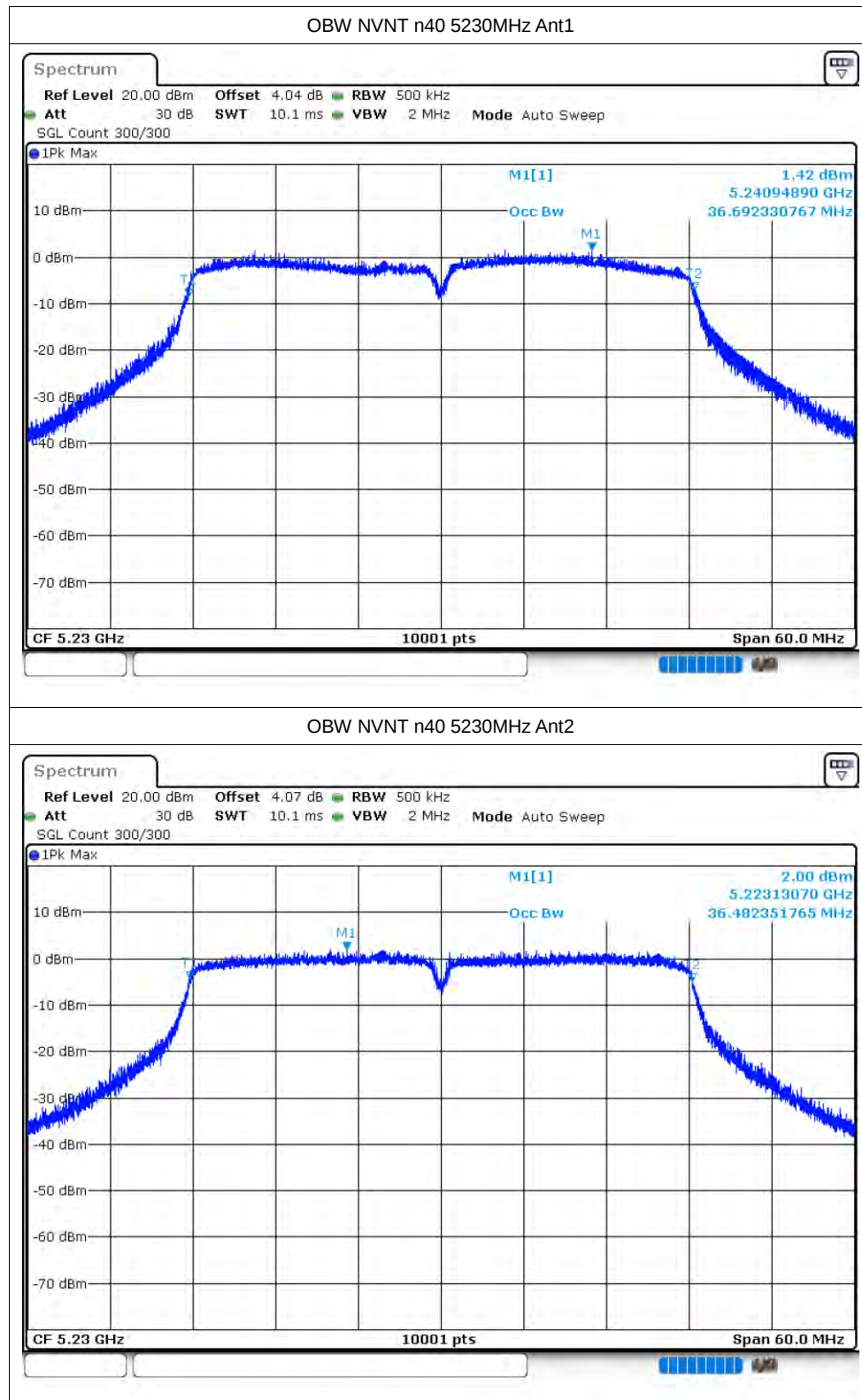
OBW NVNT n20 5180MHz Ant2









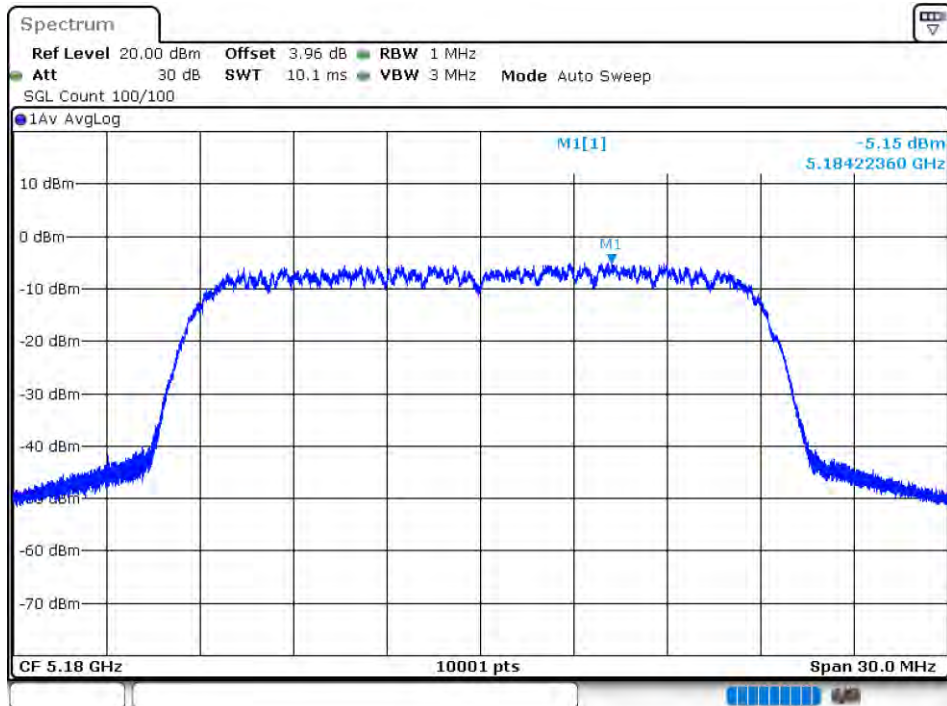


Maximum Power Spectral Density Level

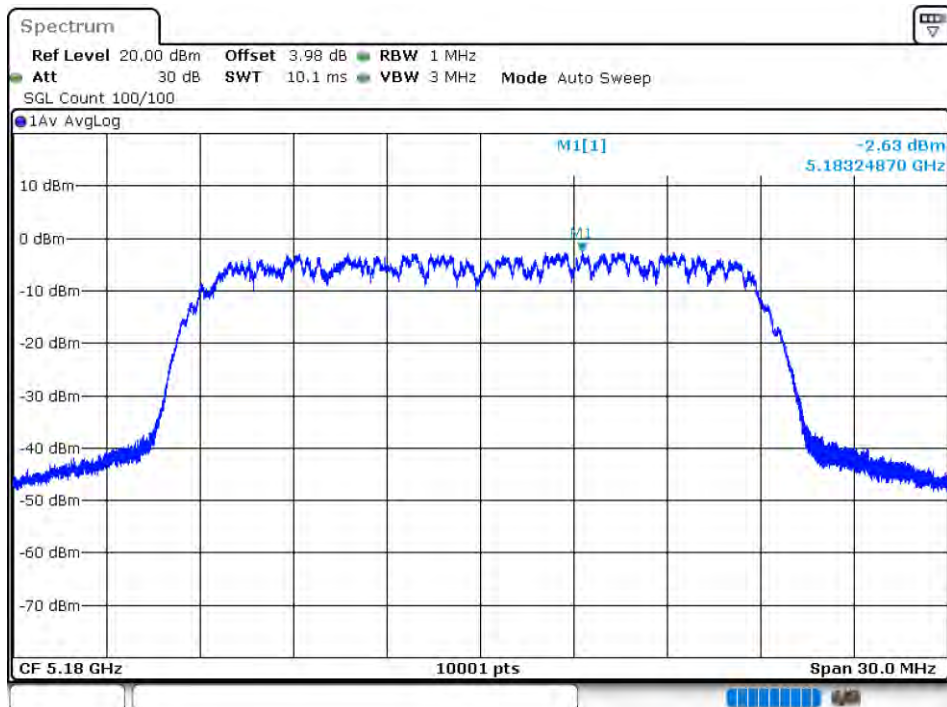
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant1	-5.15	0.11	-5.04	--	Pass
NVNT	n20	5180	Ant2	-2.63	0.11	-2.52	--	Pass
NVNT	n20	5180	Sum			-0.59	8.42	Pass
NVNT	n20	5200	Ant1	-3.65	0.11	-3.54	--	Pass
NVNT	n20	5200	Ant2	-1.41	0.11	-1.3	--	Pass
NVNT	n20	5200	Sum			0.73	8.42	Pass
NVNT	n20	5240	Ant1	-2.81	0.11	-2.7	--	Pass
NVNT	n20	5240	Ant2	-1.86	0.11	-1.75	--	Pass
NVNT	n20	5240	Sum			0.81	8.42	Pass
NVNT	n40	5190	Ant1	-6.3	0.15	-6.15	--	Pass
NVNT	n40	5190	Ant2	-5.2	0.15	-5.05	--	Pass
NVNT	n40	5190	Sum			-2.55	8.42	Pass
NVNT	n40	5230	Ant1	-6.53	0.14	-6.39	--	Pass
NVNT	n40	5230	Ant2	-6.12	0.14	-5.98	--	Pass
NVNT	n40	5230	Sum			-3.17	8.42	Pass

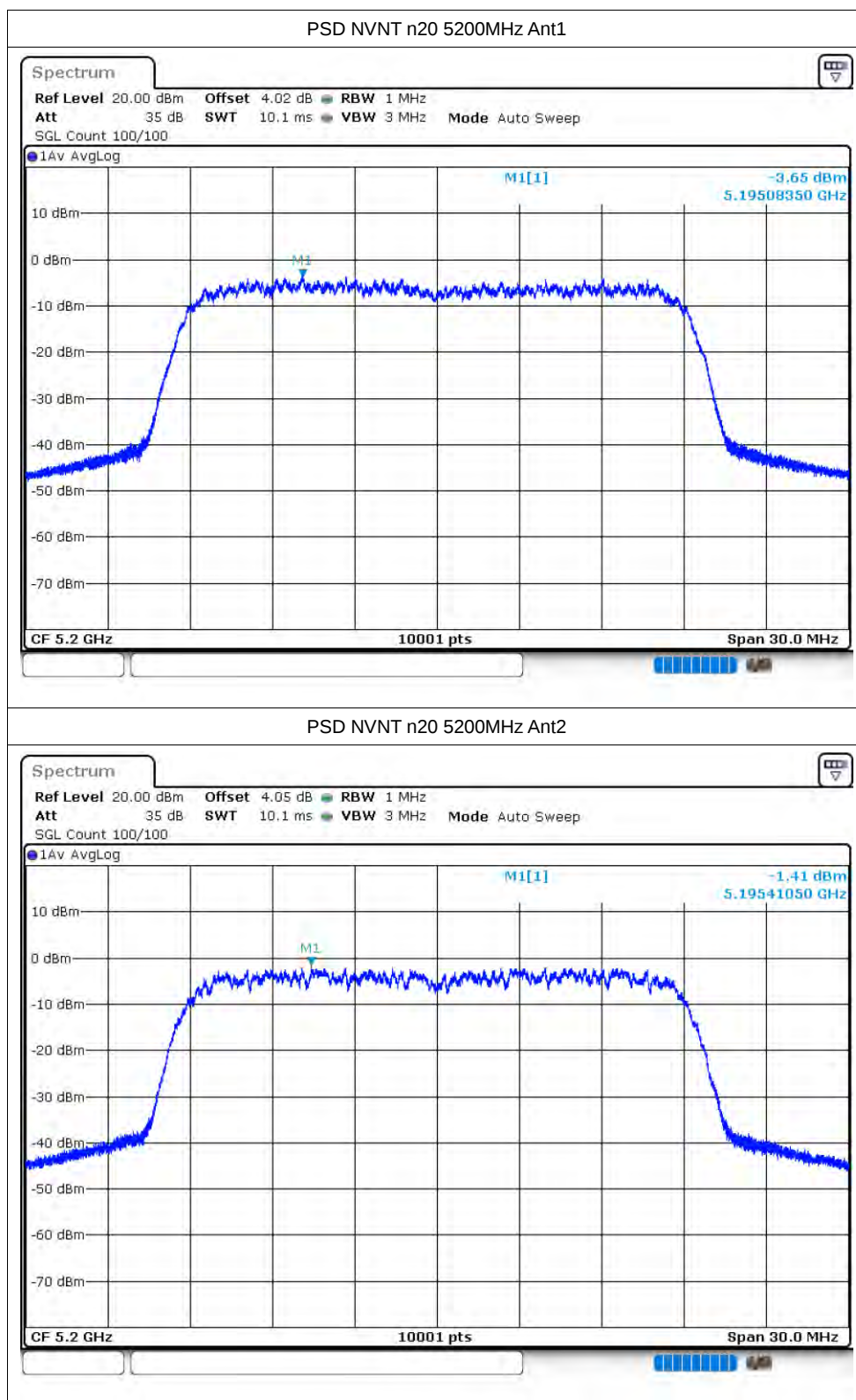
Test Graphs

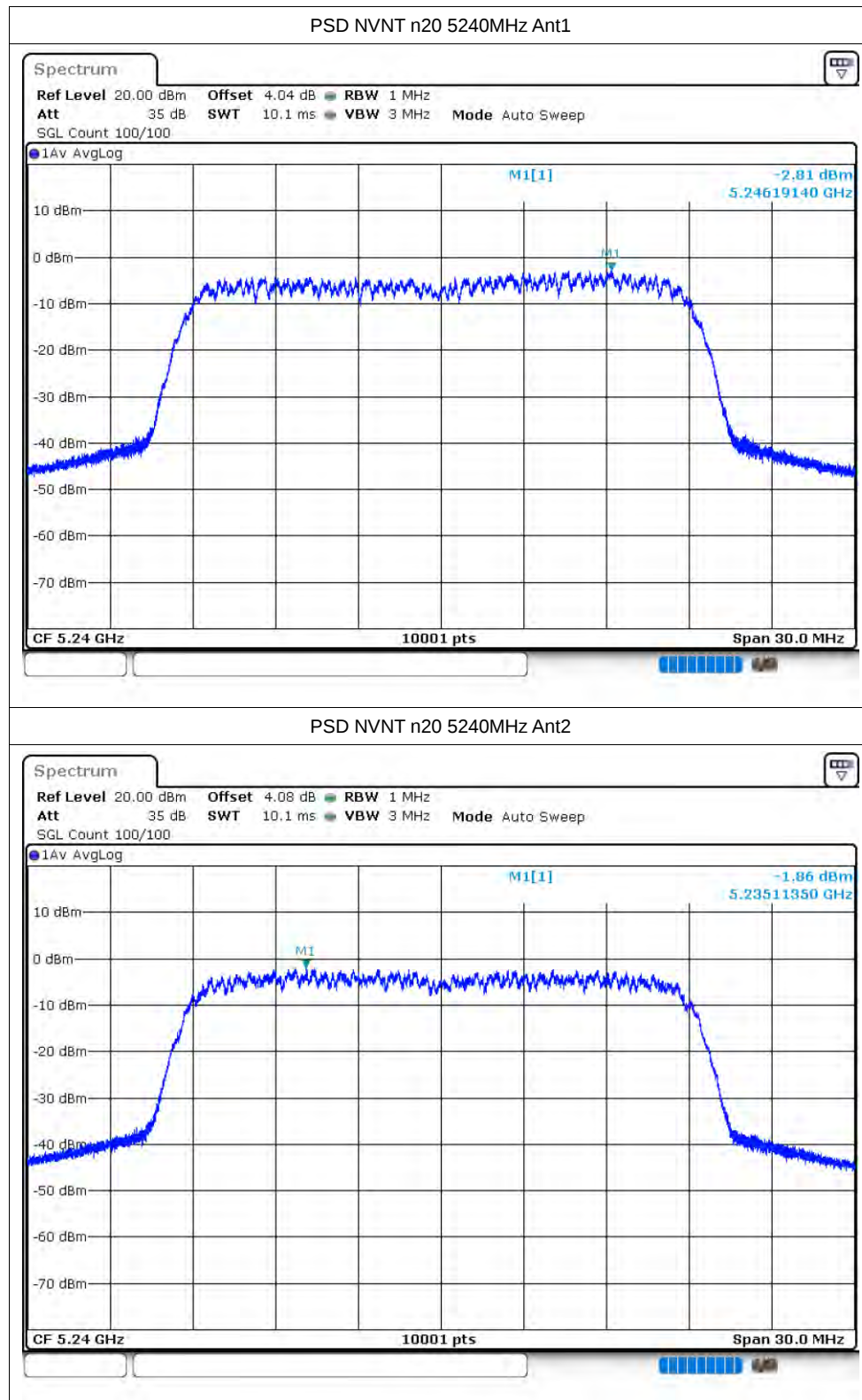
PSD NVNT n20 5180MHz Ant1

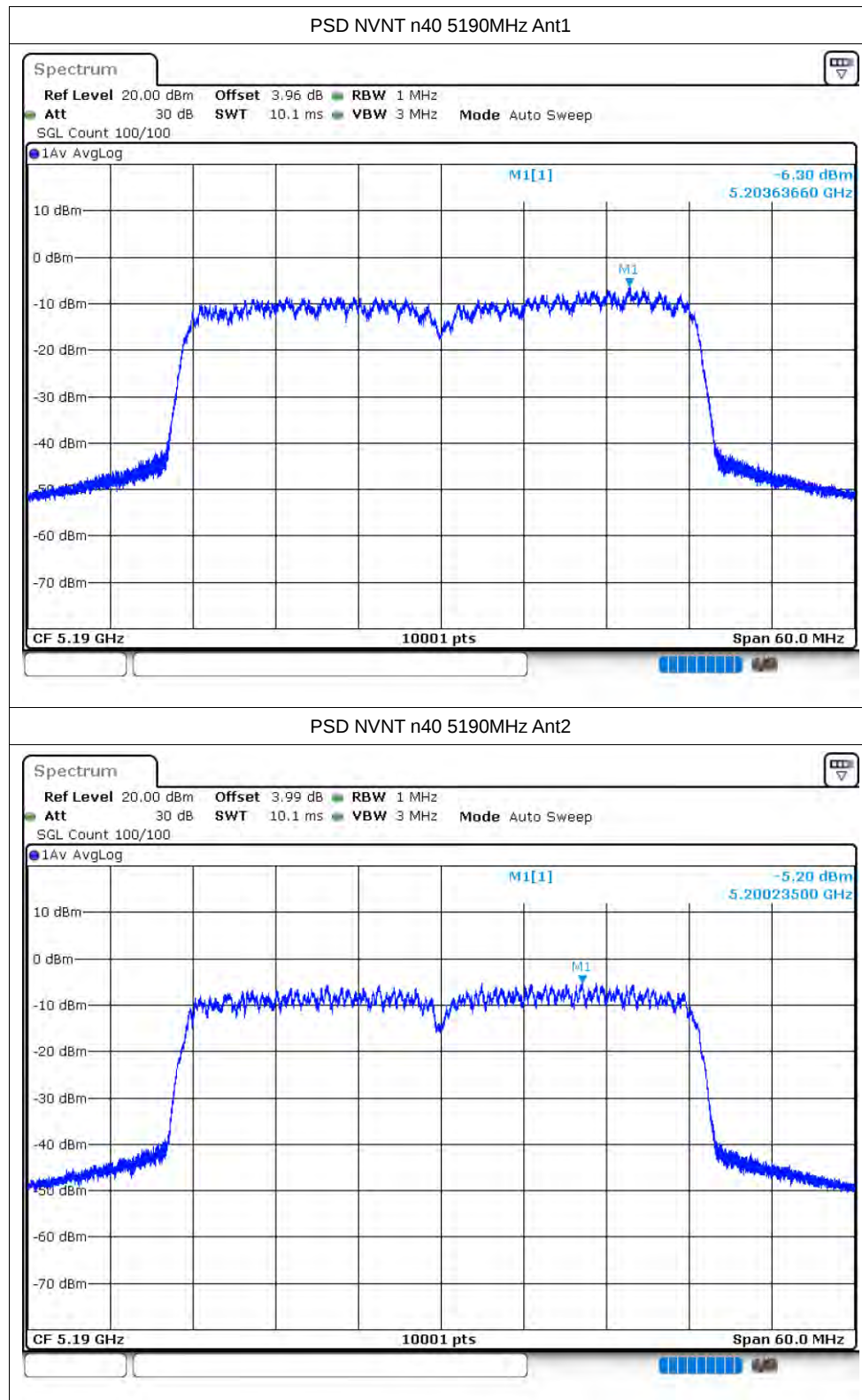


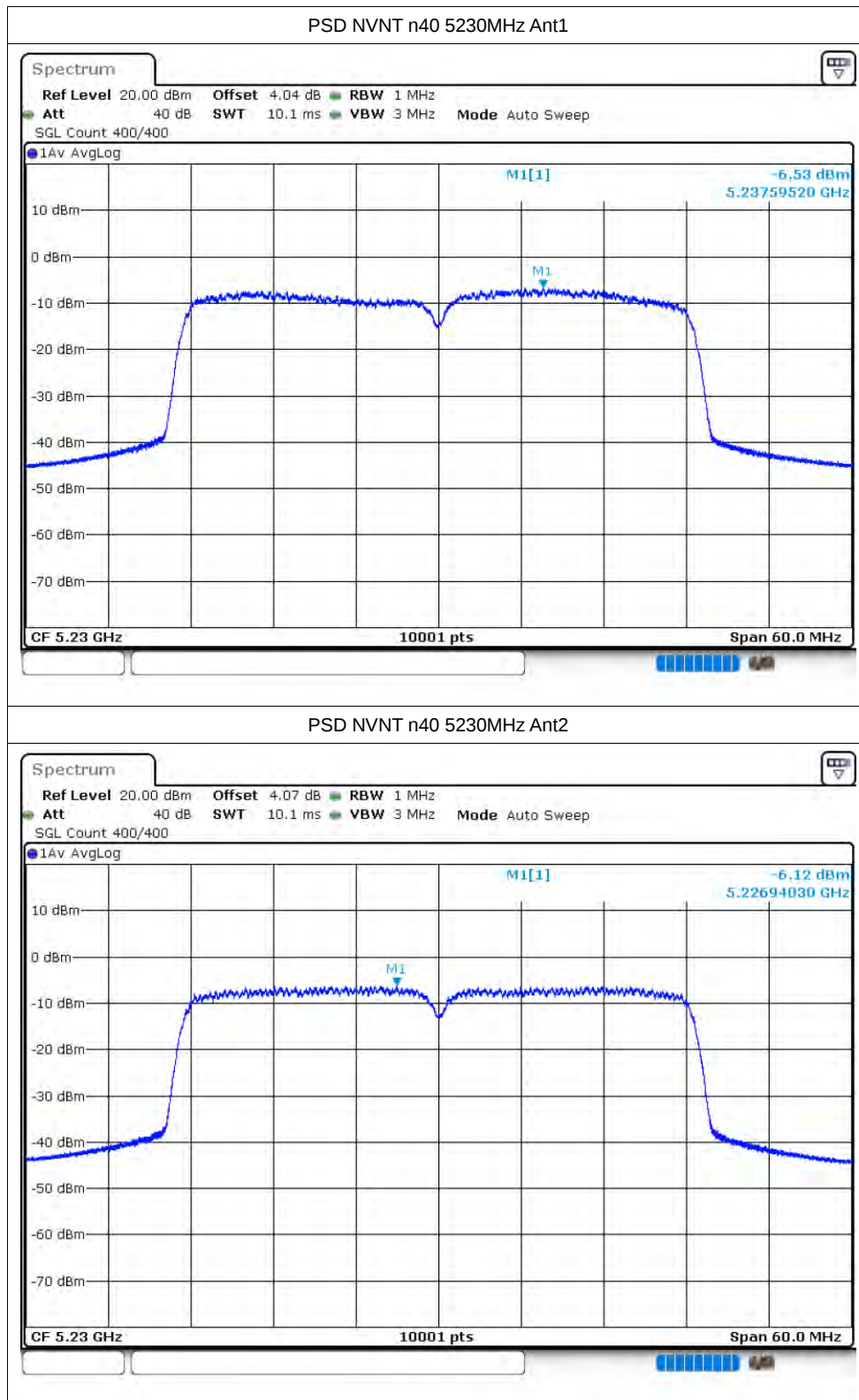
PSD NVNT n20 5180MHz Ant2











Band Edge

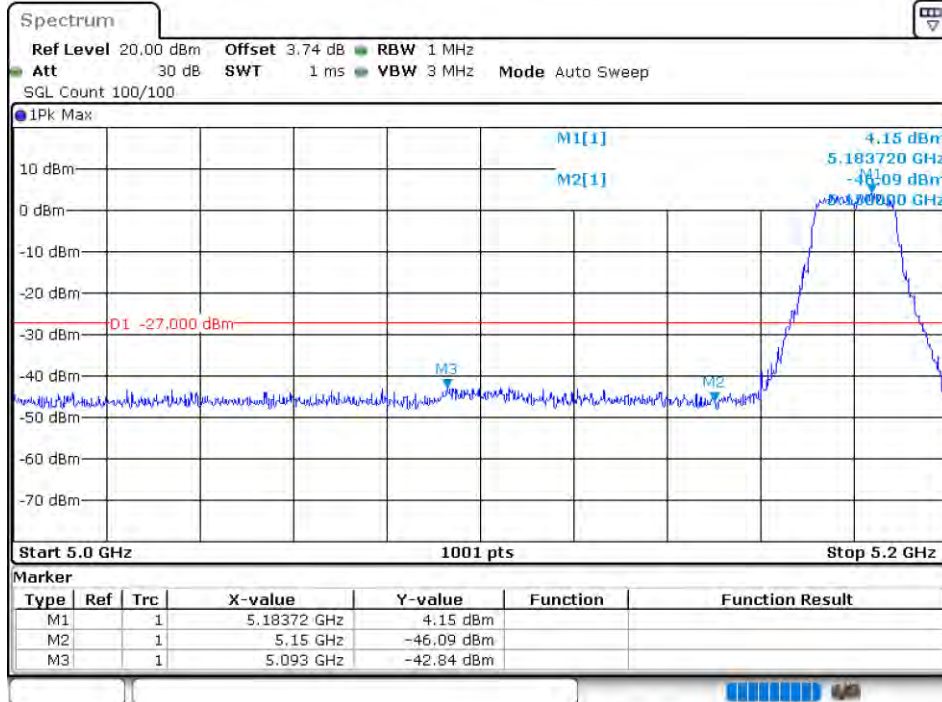
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant1	-32.66	-27	Pass
NVNT	n20	5180	Ant2	-31.81	-27	Pass
NVNT	n20	5240	Ant1	-31.13	-27	Pass
NVNT	n20	5240	Ant2	-32.91	-27	Pass
NVNT	n40	5190	Ant1	-33.81	-27	Pass
NVNT	n40	5190	Ant2	-29.3	-27	Pass
NVNT	n40	5230	Ant1	-30.21	-27	Pass
NVNT	n40	5230	Ant2	-32.59	-27	Pass

Note: 1) This test has increased antenna gain .

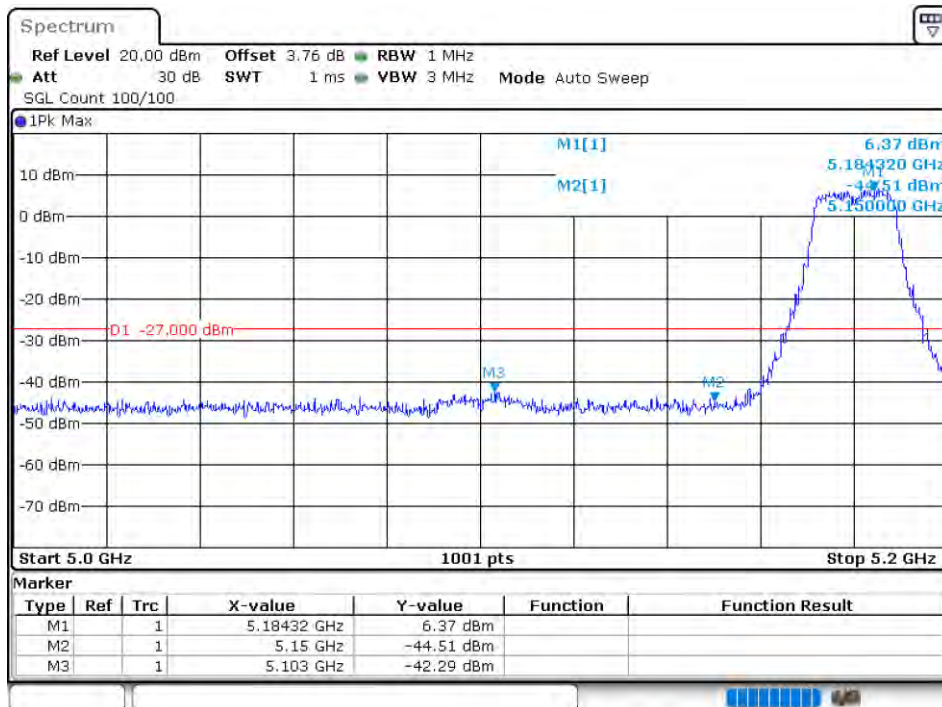
2) The ANT 1& ANT 2 both has 3dB margin below the limit, so the MIMO mode is passed.

Test Graphs

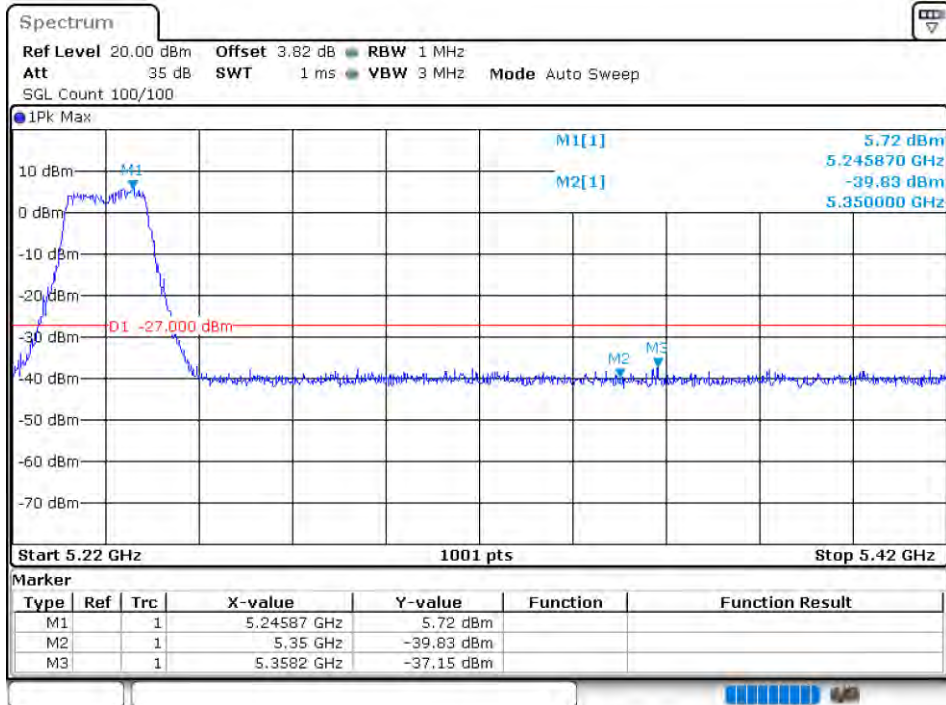
Band Edge NVNT n20 5180MHz Low Ant1



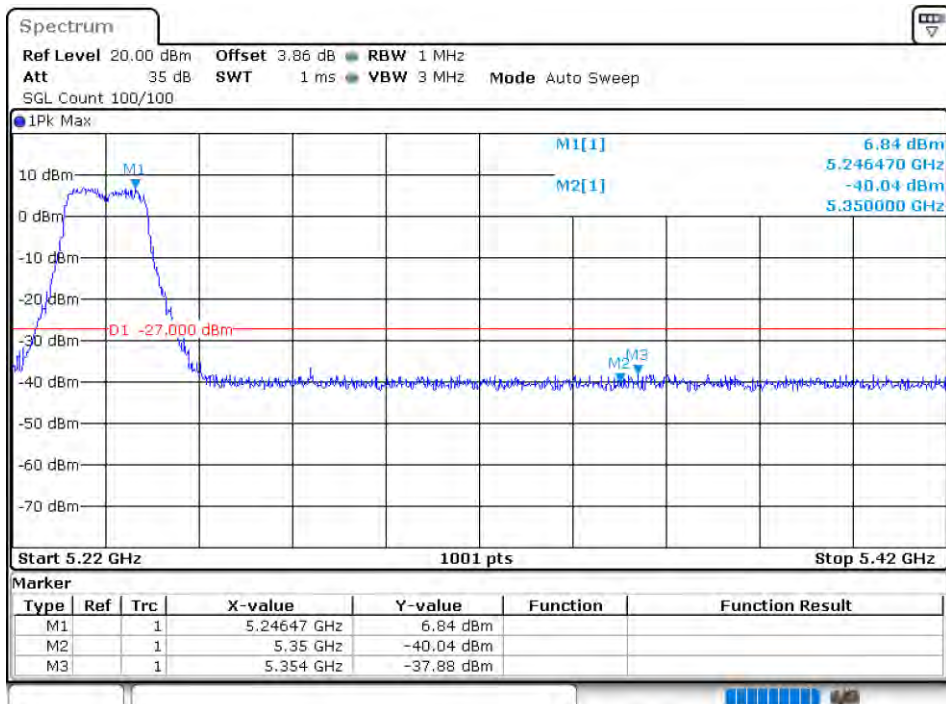
Band Edge NVNT n20 5180MHz Low Ant2



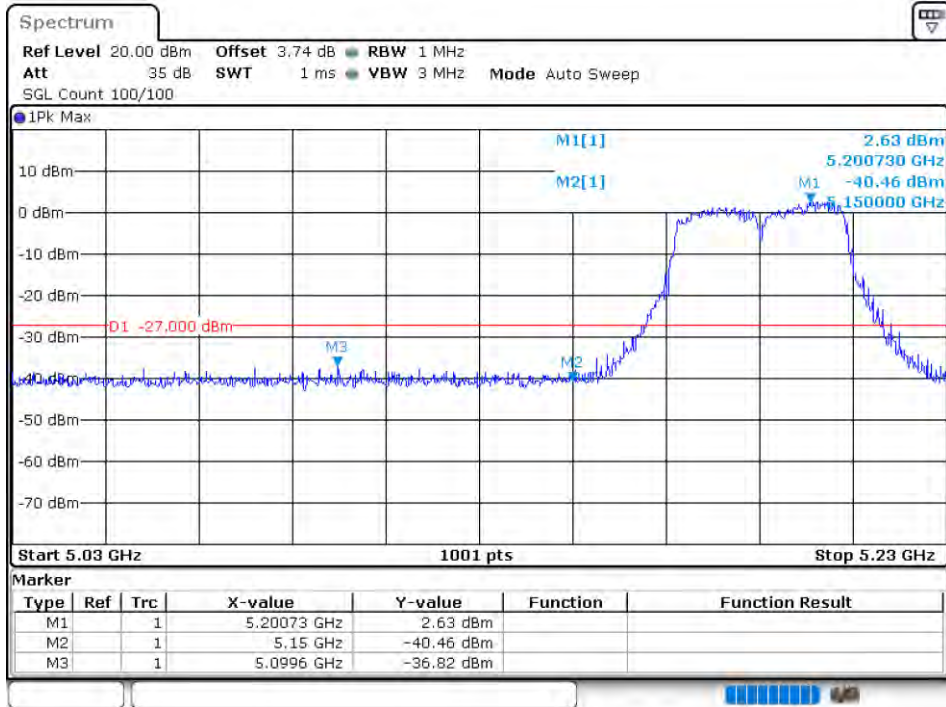
Band Edge NVNT n20 5240MHz High Ant1



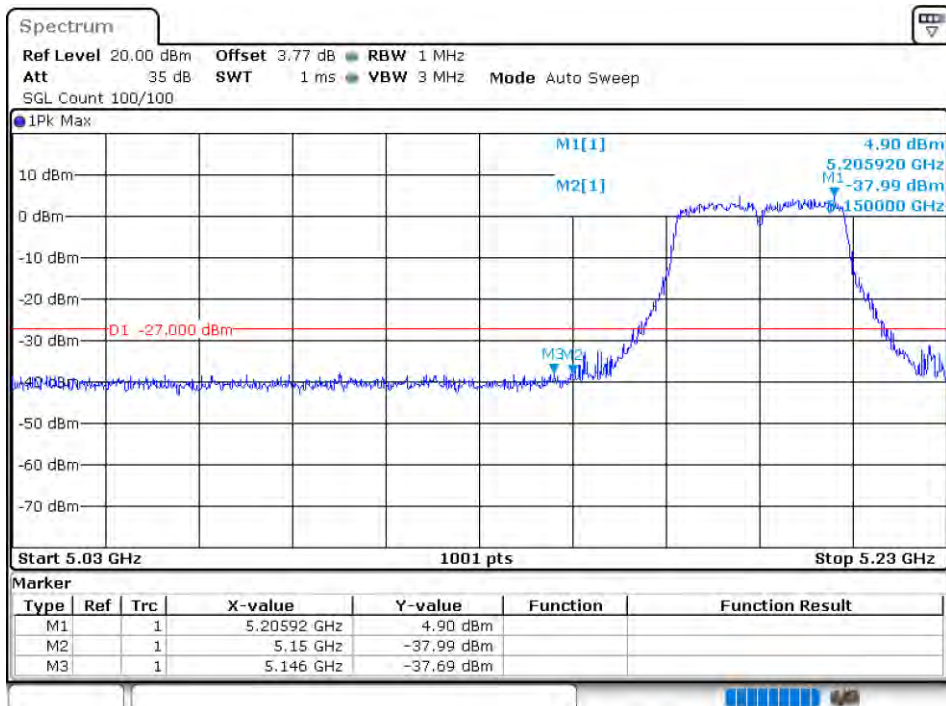
Band Edge NVNT n20 5240MHz High Ant2



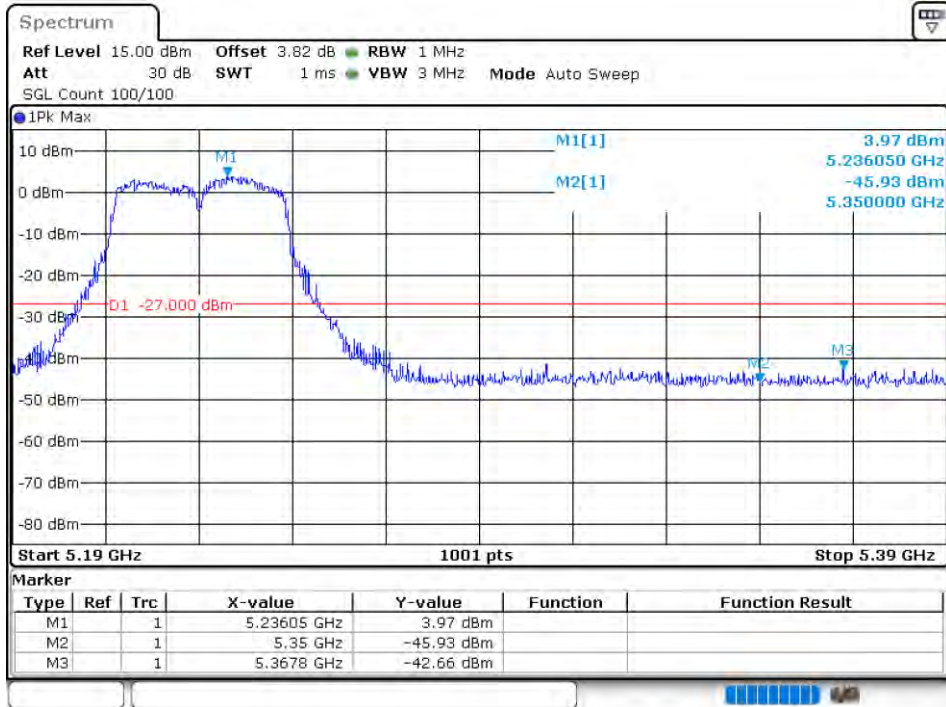
Band Edge NVNT n40 5190MHz Low Ant1



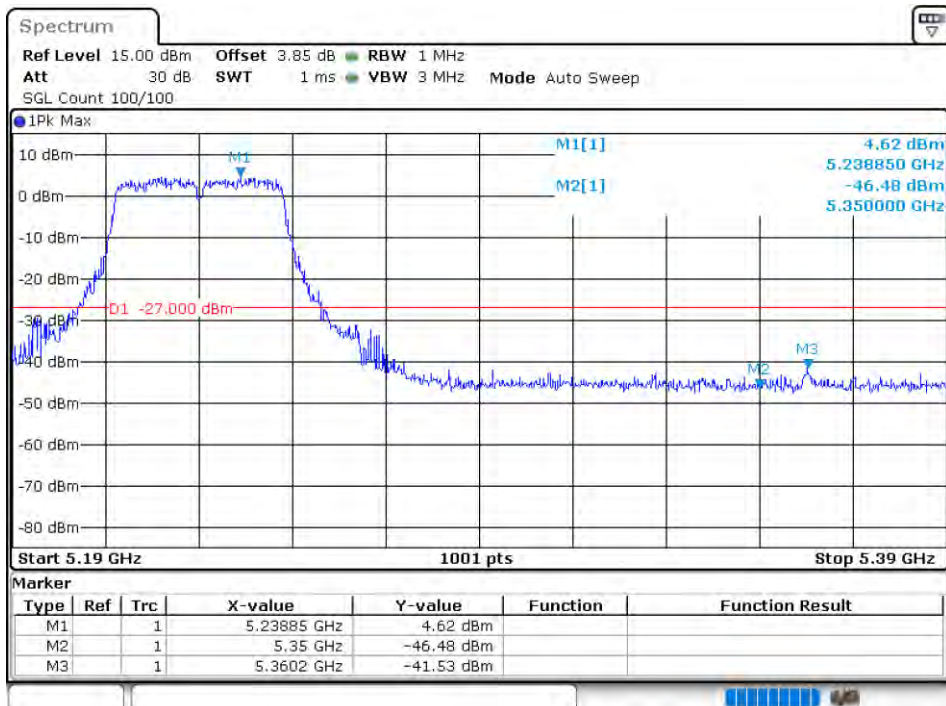
Band Edge NVNT n40 5190MHz Low Ant2



Band Edge NVNT n40 5230MHz High Ant1



Band Edge NVNT n40 5230MHz High Ant2



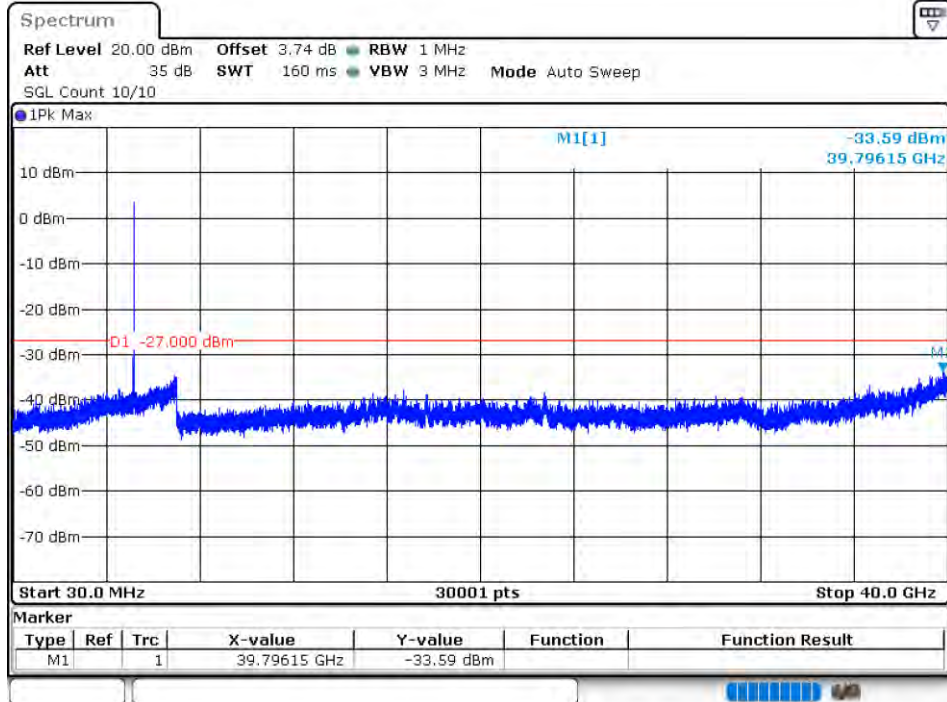
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant1	-33.59	-27	Pass
NVNT	n20	5180	Ant2	-33.76	-27	Pass
NVNT	n20	5200	Ant1	-33.57	-27	Pass
NVNT	n20	5200	Ant2	-33.97	-27	Pass
NVNT	n20	5240	Ant1	-34.21	-27	Pass
NVNT	n20	5240	Ant2	-33.32	-27	Pass
NVNT	n40	5190	Ant1	-33.43	-27	Pass
NVNT	n40	5190	Ant2	-33.89	-27	Pass
NVNT	n40	5230	Ant1	-35.08	-27	Pass
NVNT	n40	5230	Ant2	-34.22	-27	Pass

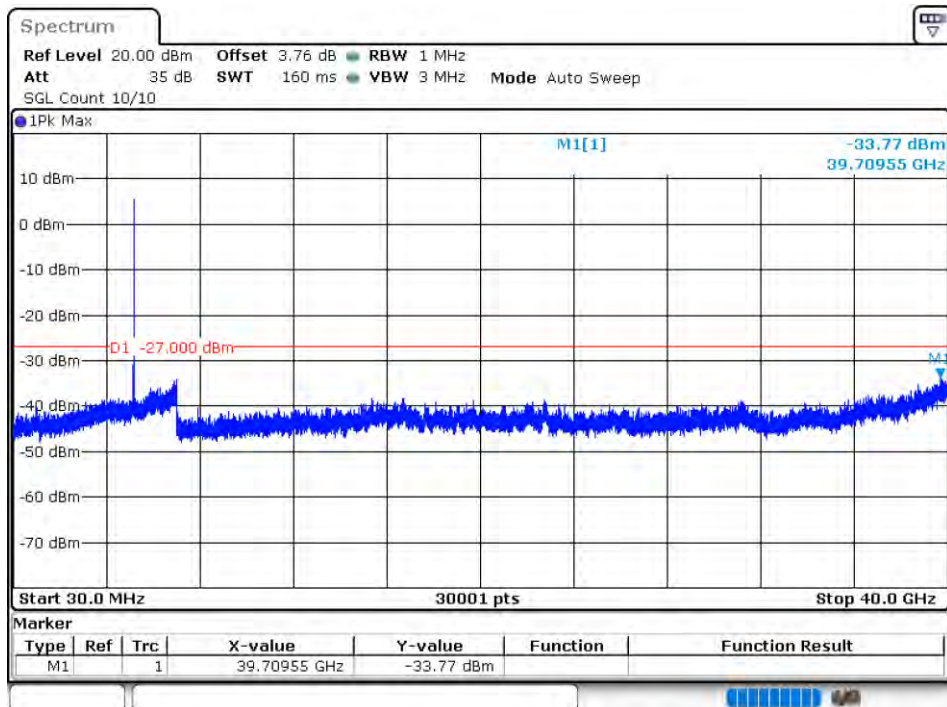
Note: This test has increased antenna gain .

Test Graphs

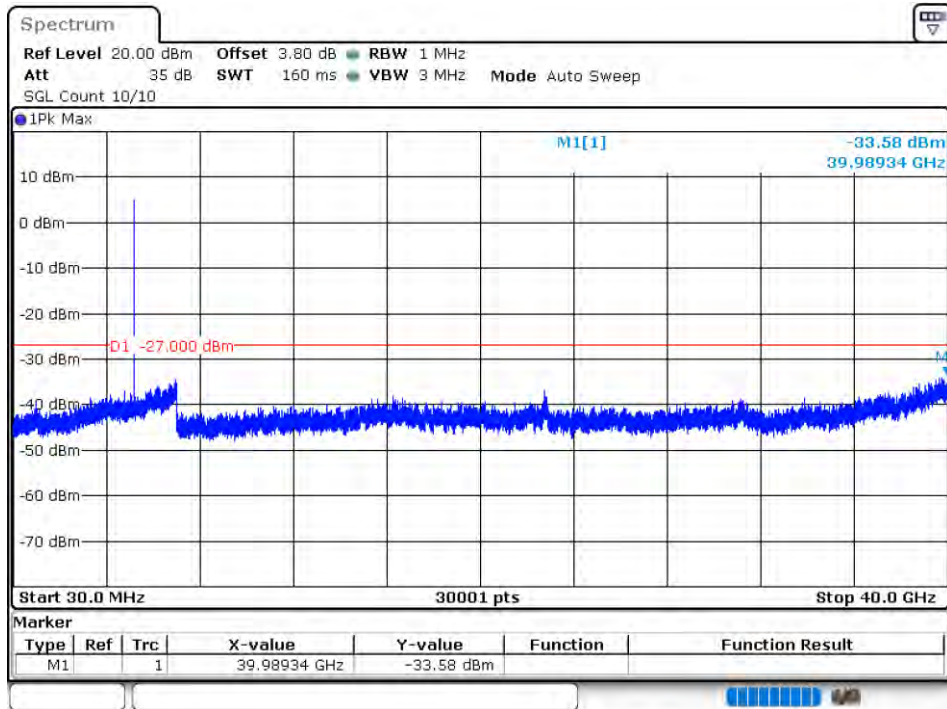
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



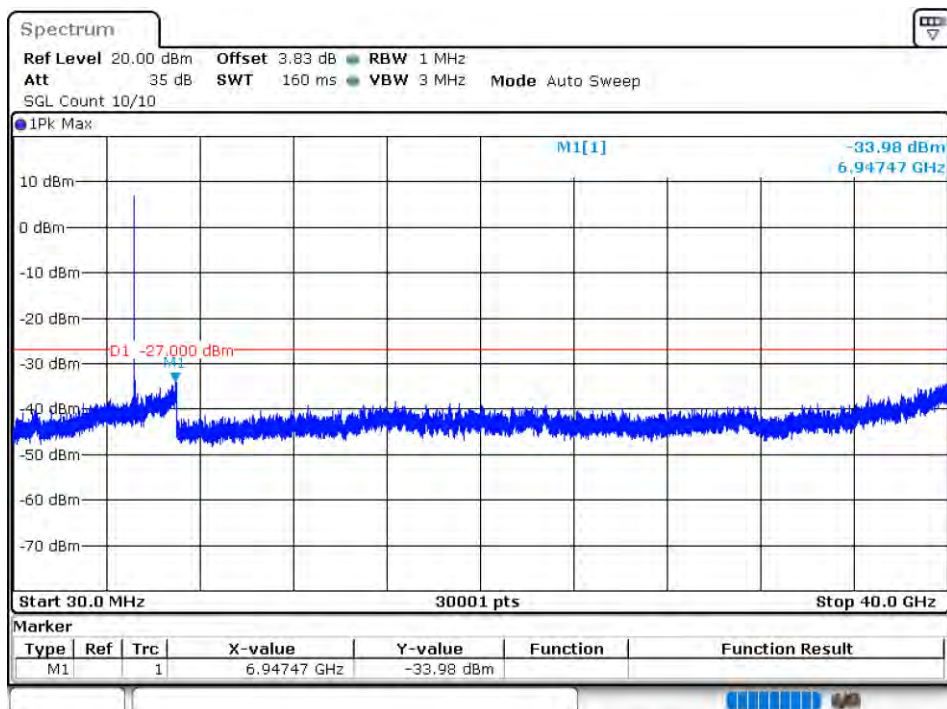
Tx. Spurious NVNT n20 5180MHz Ant2 Emission



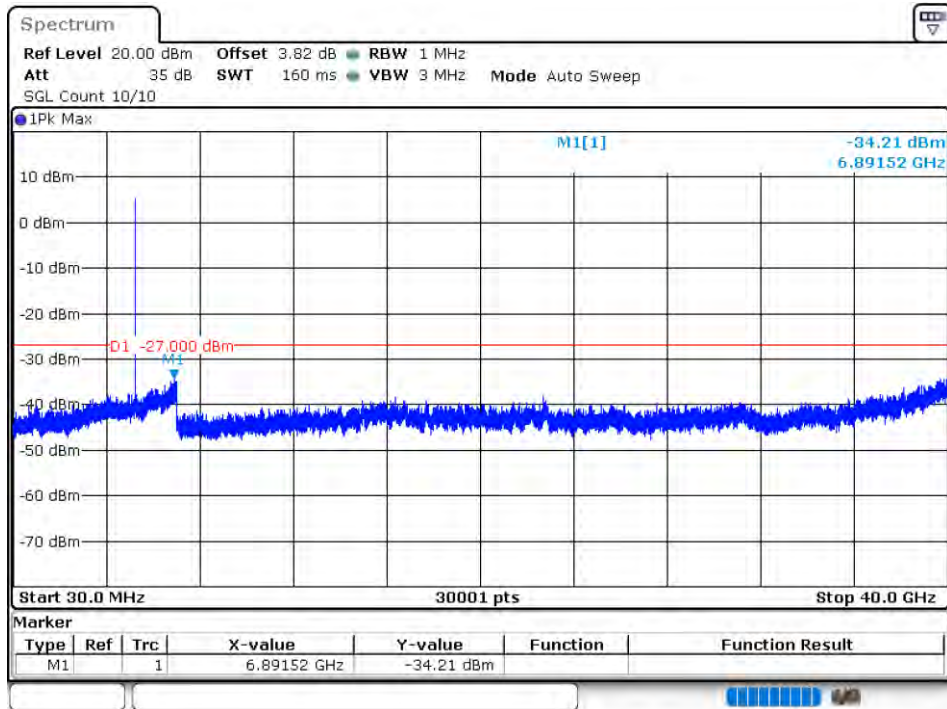
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



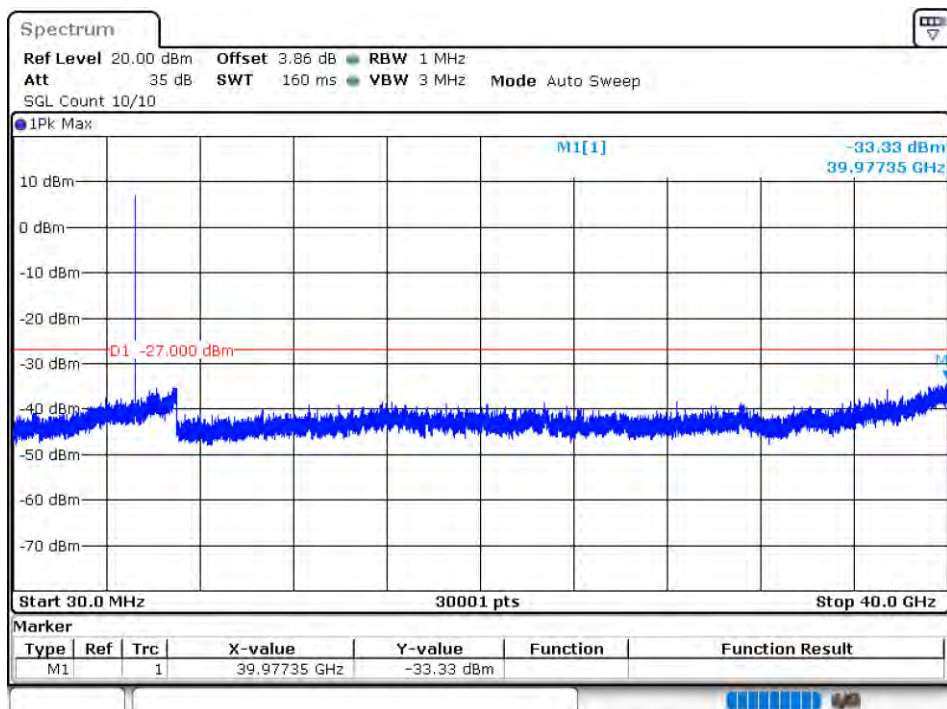
Tx. Spurious NVNT n20 5200MHz Ant2 Emission



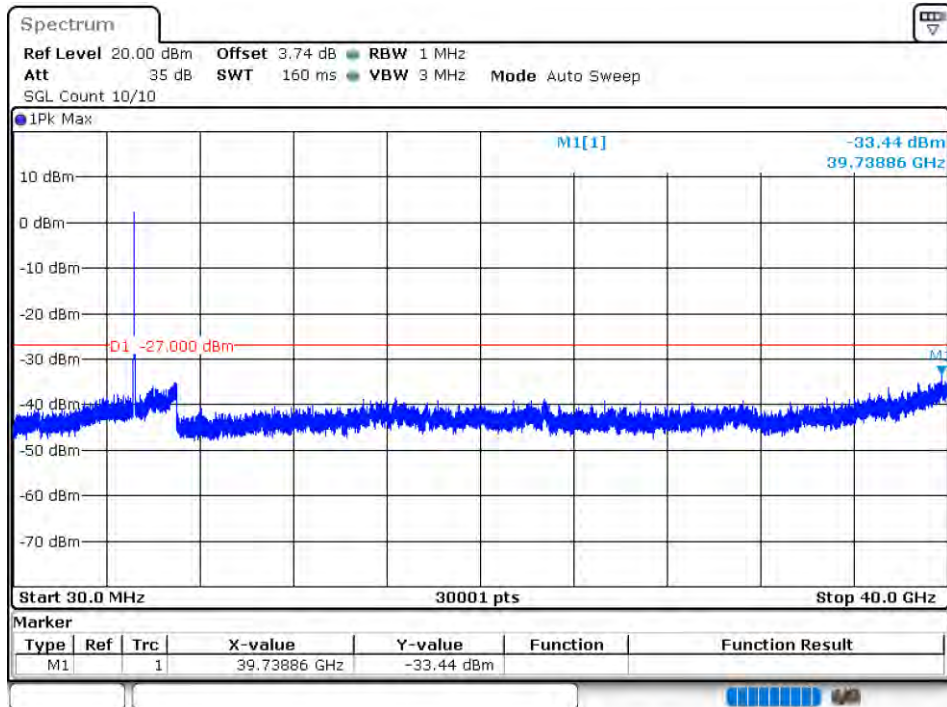
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



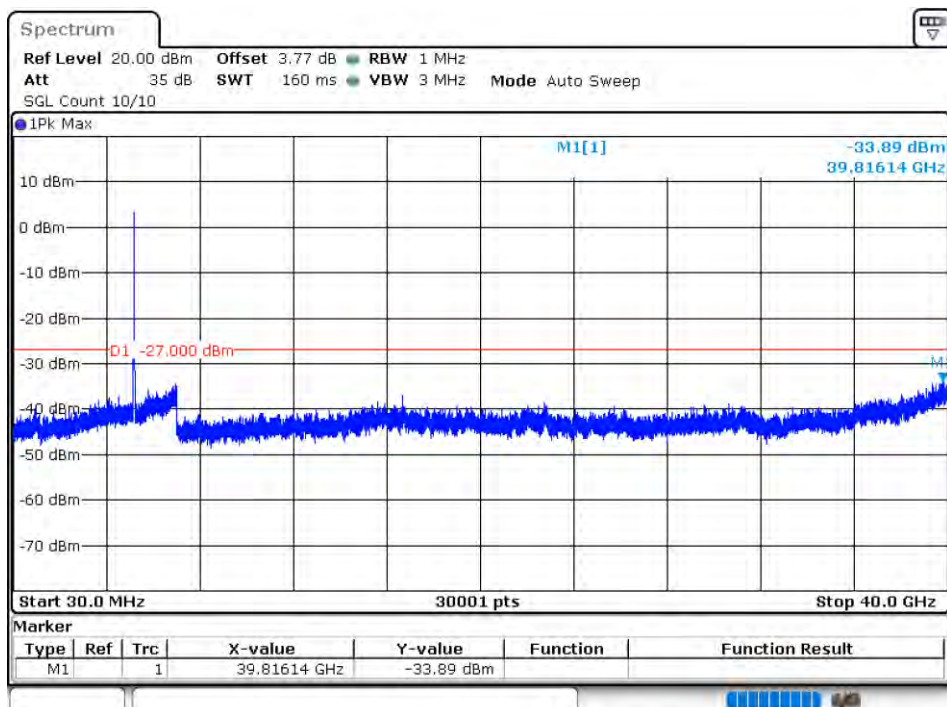
Tx. Spurious NVNT n20 5240MHz Ant2 Emission



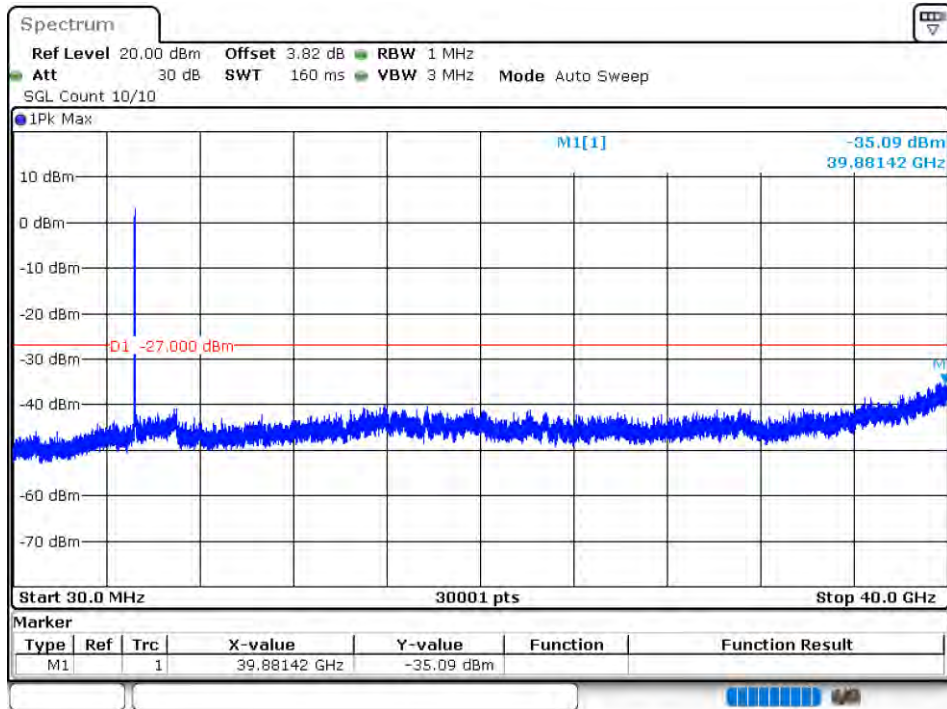
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant2 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant2 Emission

