

WIFI 5.2G

Duty Cycle

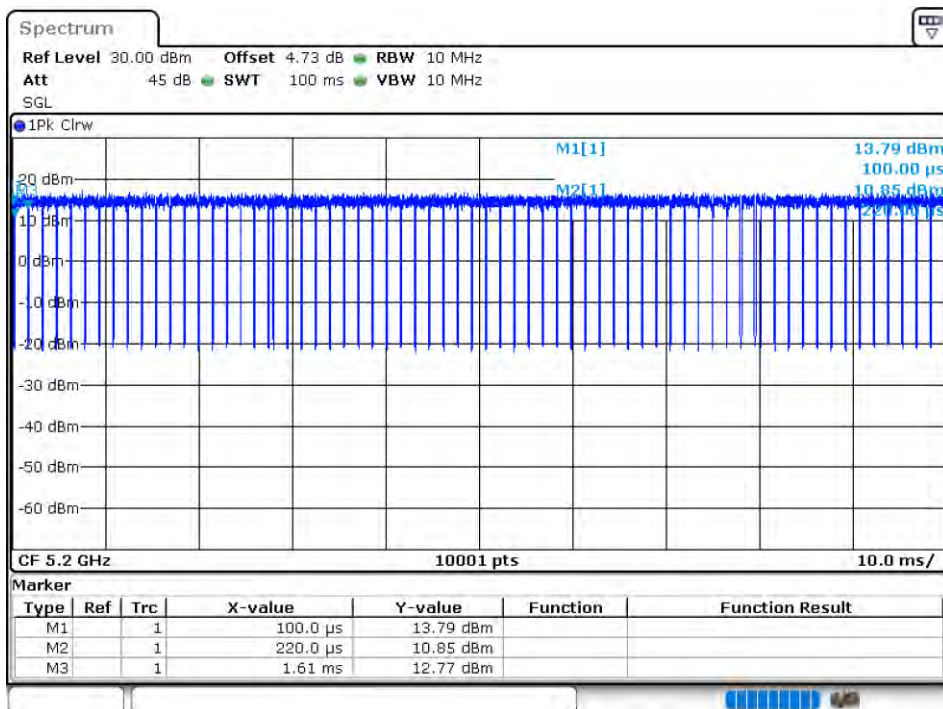
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	92.4	0.34	0.71
NVNT	a	5200	Ant1	92.27	0.35	0.72
NVNT	a	5240	Ant1	92.48	0.34	0.72
NVNT	n20	5180	Ant1	91.76	0.37	0.77
NVNT	n20	5200	Ant1	91.91	0.37	0.77
NVNT	n20	5240	Ant1	91.93	0.37	0.77
NVNT	n40	5190	Ant1	75.79	1.2	1.54
NVNT	n40	5230	Ant1	76.01	1.19	1.54
NVNT	ac20	5180	Ant1	91.91	0.37	0.76
NVNT	ac20	5200	Ant1	91.95	0.36	0.76
NVNT	ac20	5240	Ant1	92	0.36	0.76
NVNT	ac40	5190	Ant1	75.56	1.22	1.52
NVNT	ac40	5230	Ant1	76.18	1.18	1.54
NVNT	ac80	5210	Ant1	61.43	2.12	3.13

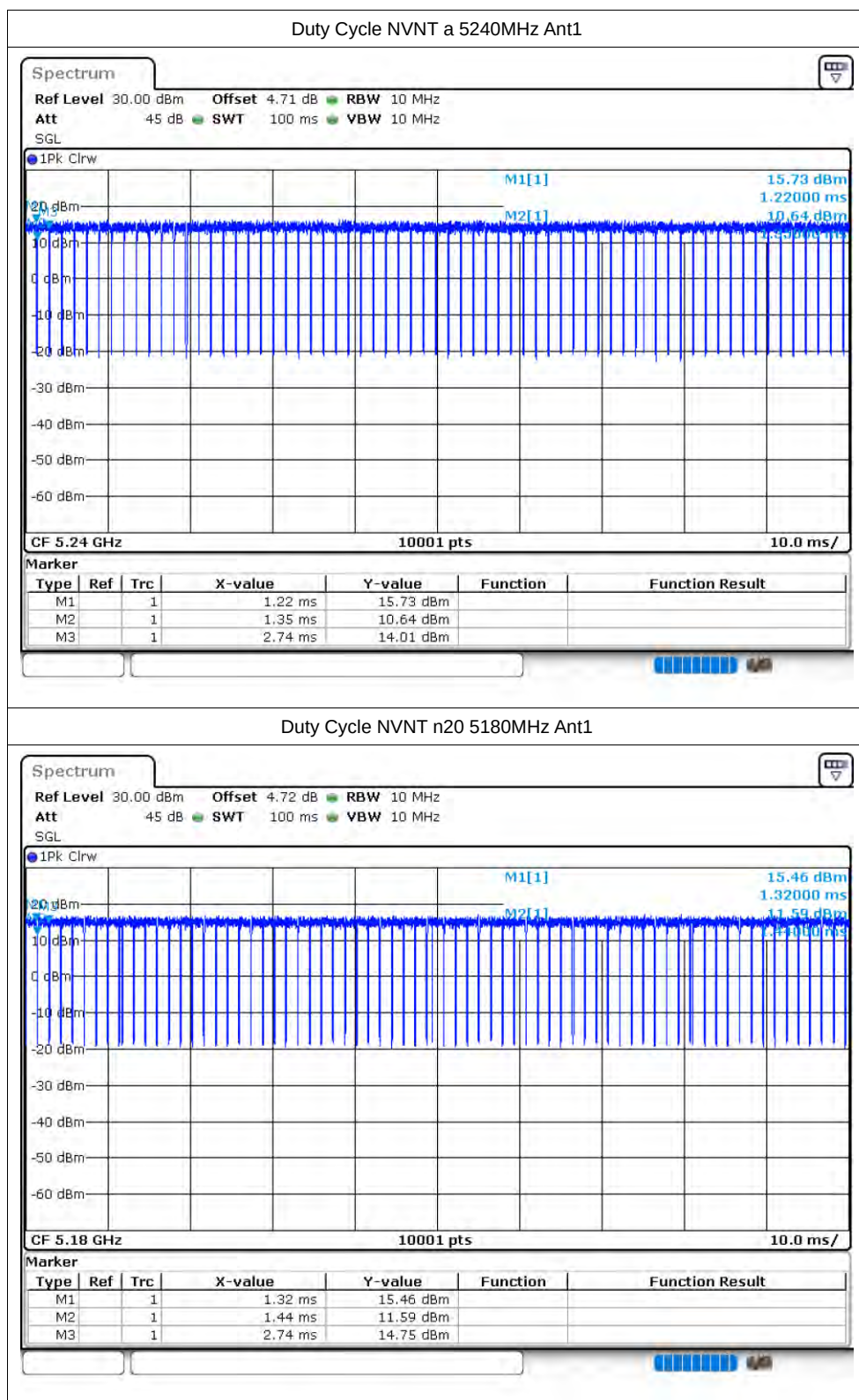
Test Graphs

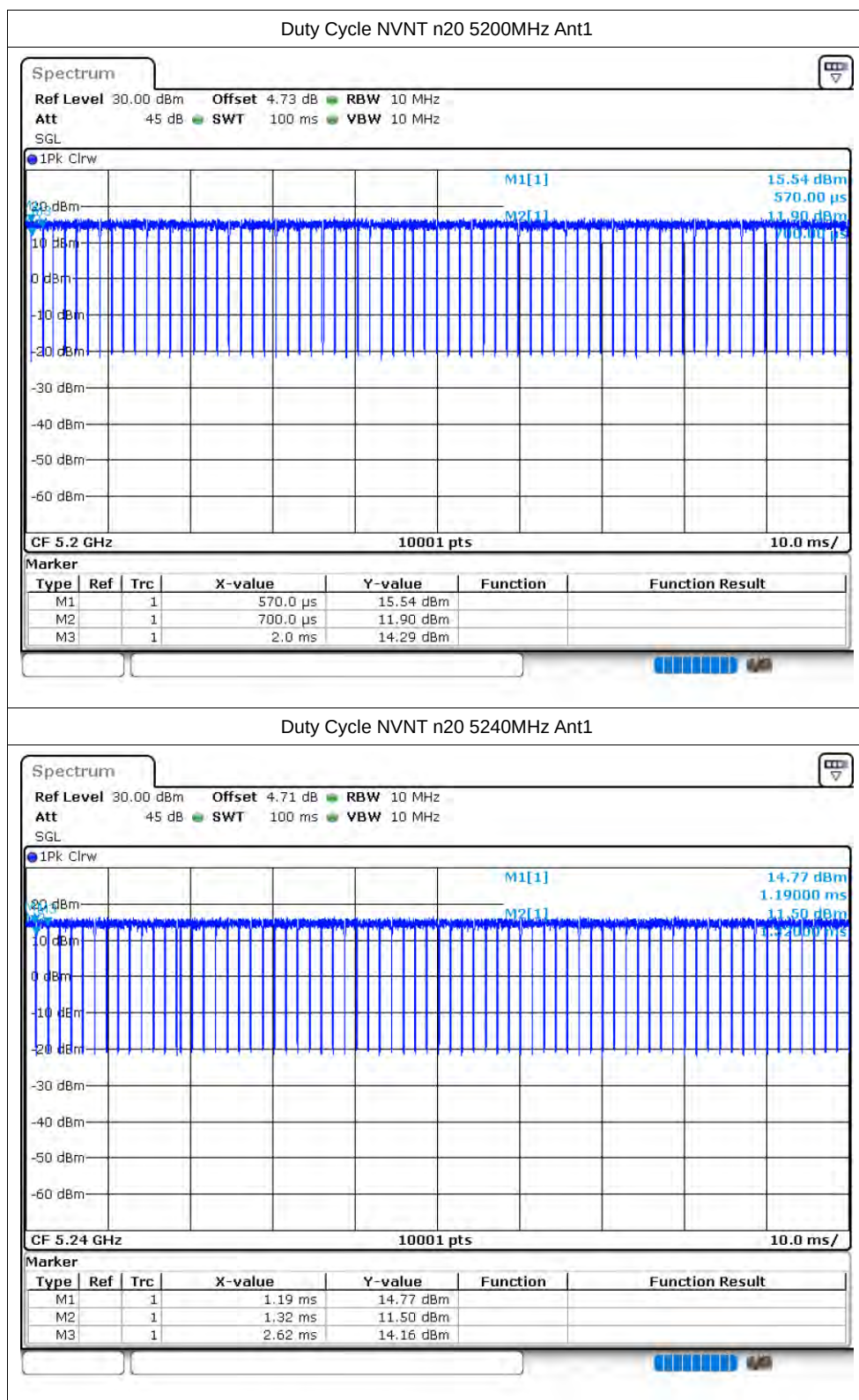
Duty Cycle NVNT a 5180MHz Ant1

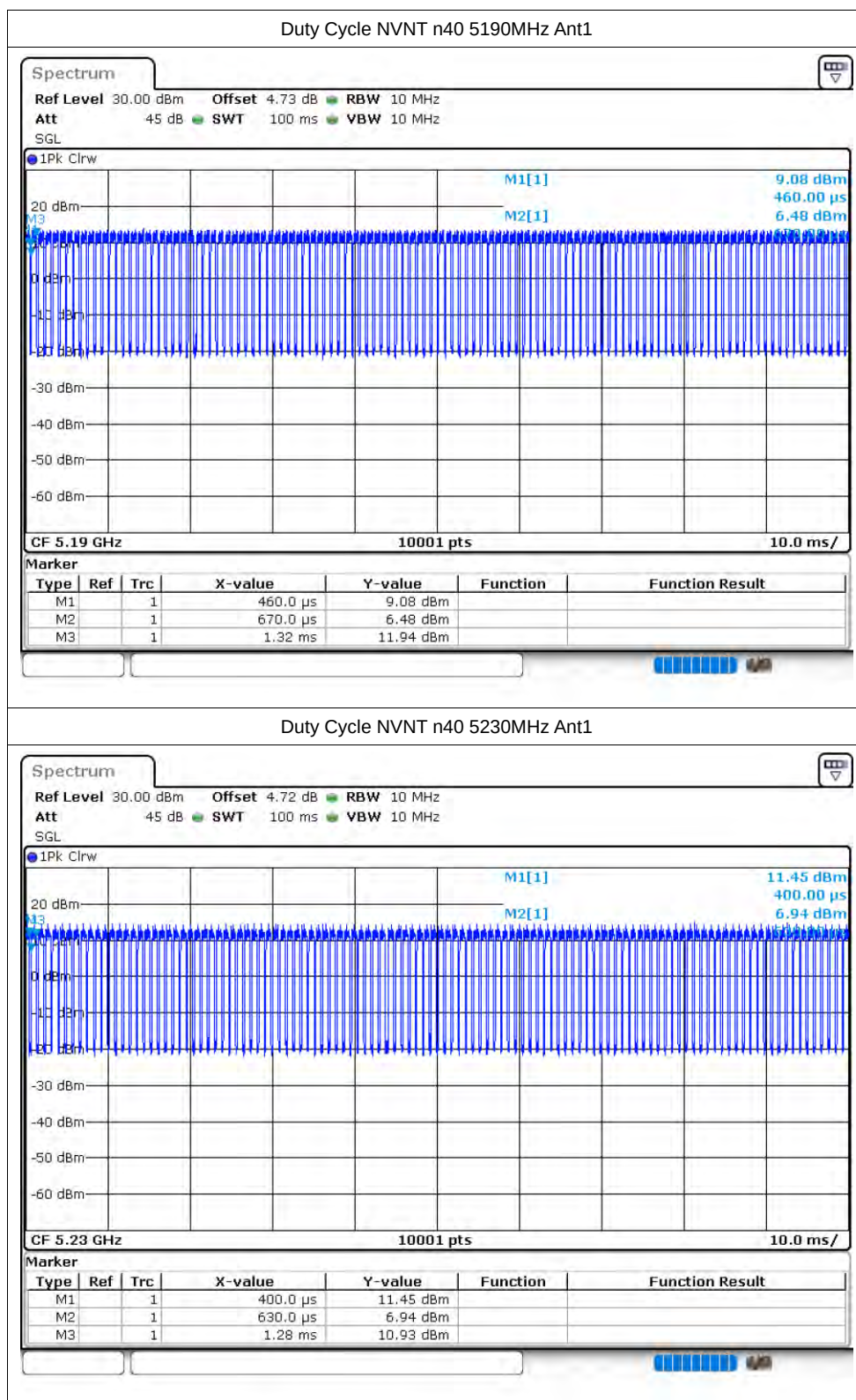


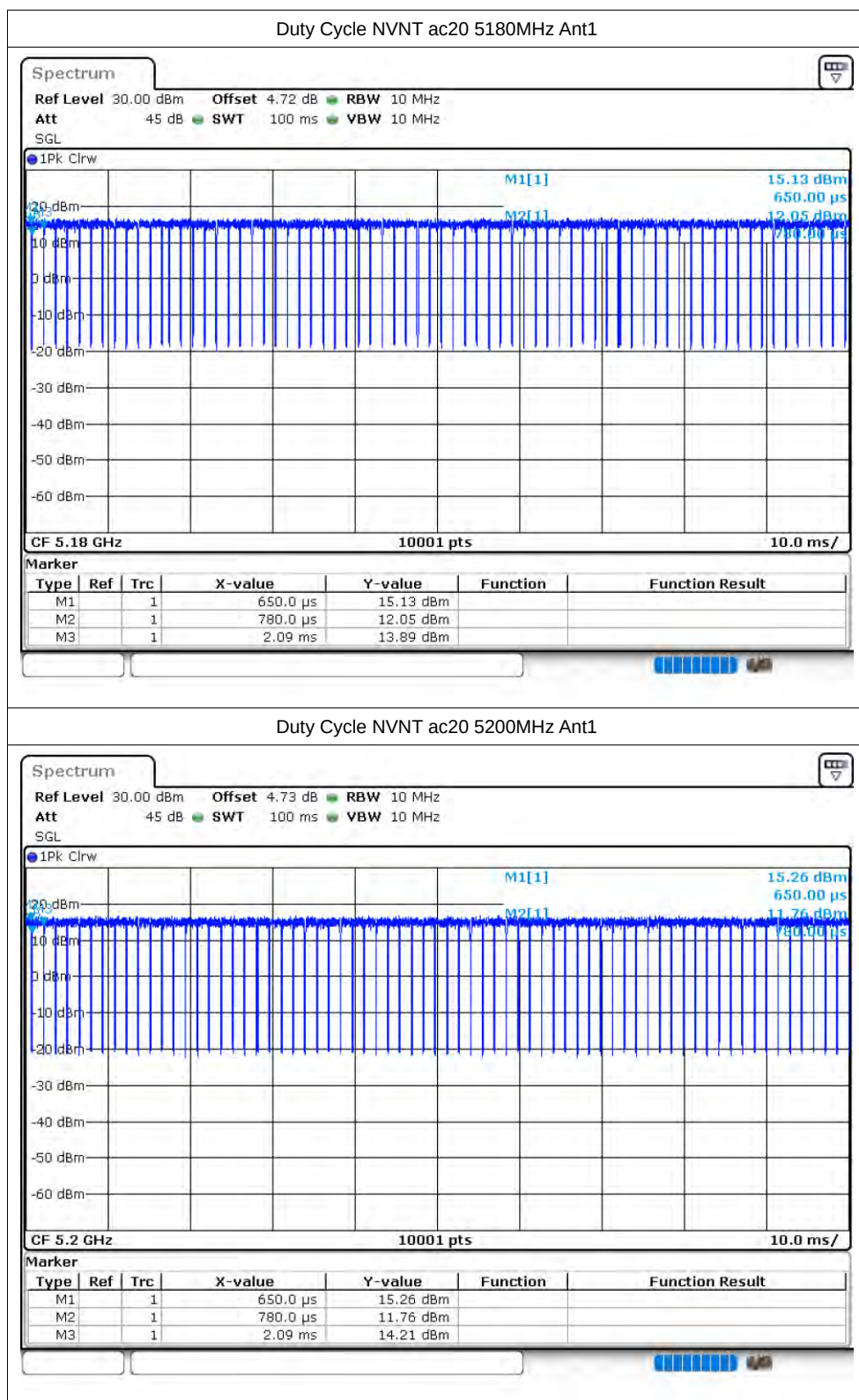
Duty Cycle NVNT a 5200MHz Ant1

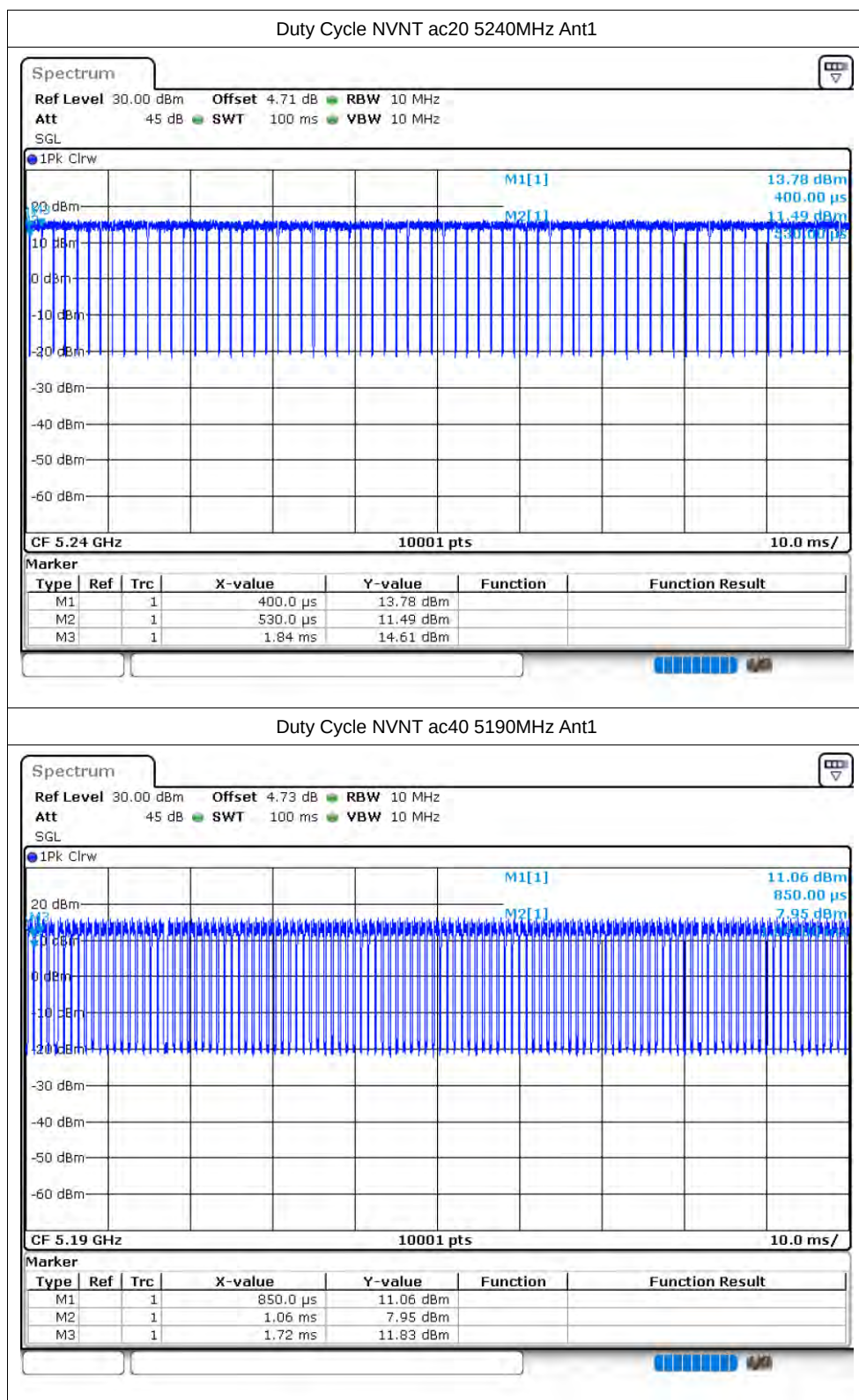


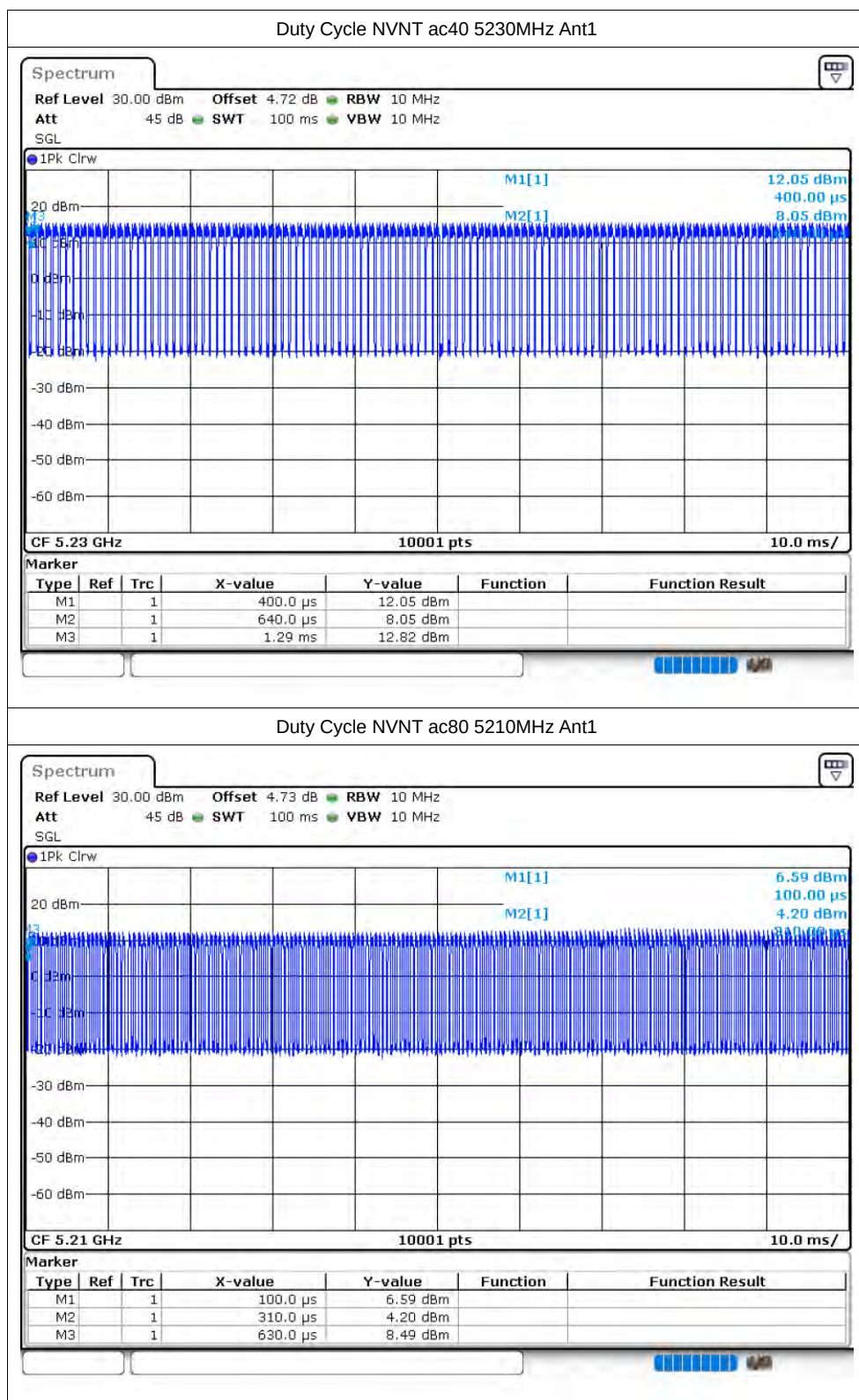












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.54	24	Pass
NVNT	a	5200	Ant1	10.13	24	Pass
NVNT	a	5240	Ant1	10.43	24	Pass
NVNT	n20	5180	Ant1	10.95	24	Pass
NVNT	n20	5200	Ant1	10.81	24	Pass
NVNT	n20	5240	Ant1	10.62	24	Pass
NVNT	n40	5190	Ant1	10.03	24	Pass
NVNT	n40	5230	Ant1	10.33	24	Pass
NVNT	ac20	5180	Ant1	11.15	24	Pass
NVNT	ac20	5200	Ant1	10.97	24	Pass
NVNT	ac20	5240	Ant1	10.66	24	Pass
NVNT	ac40	5190	Ant1	10.83	24	Pass
NVNT	ac40	5230	Ant1	10.34	24	Pass
NVNT	ac80	5210	Ant1	10.2	24	Pass

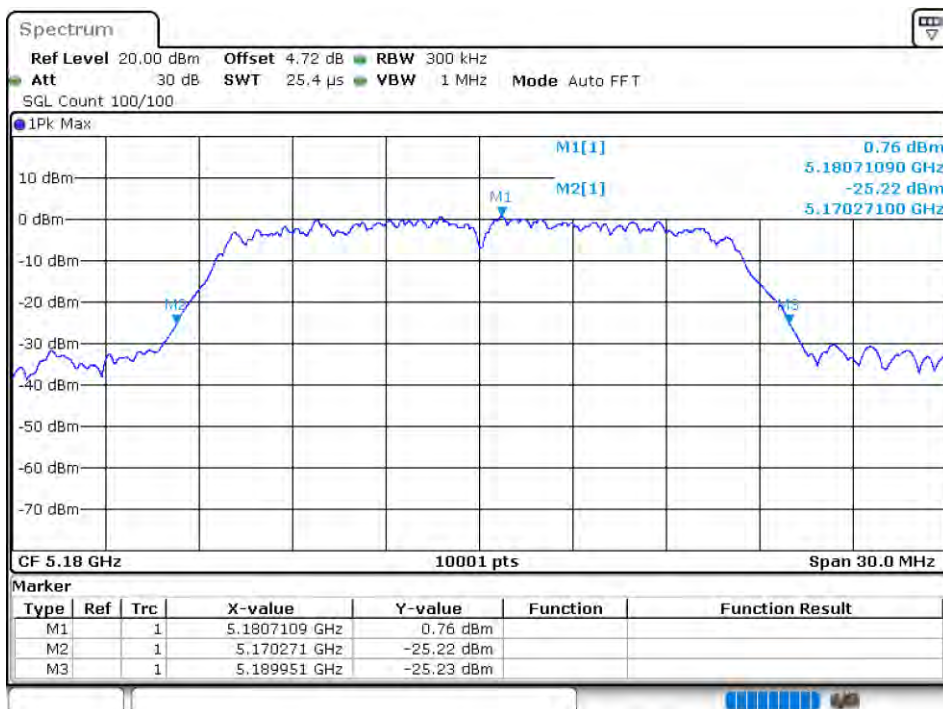
Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

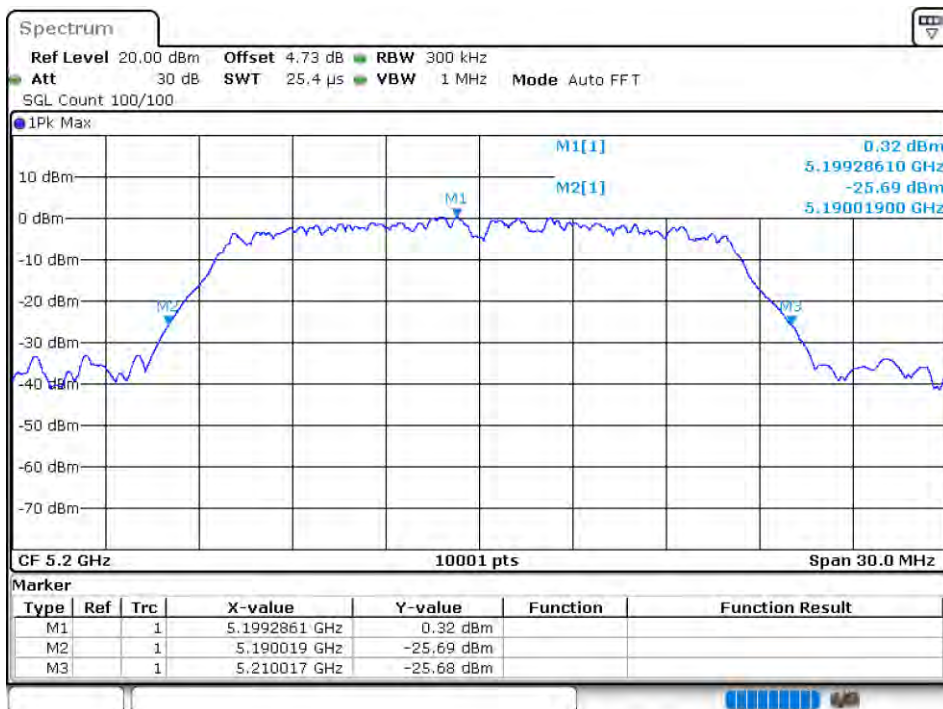
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	19.68
NVNT	a	5200	Ant1	19.998
NVNT	a	5240	Ant1	19.371
NVNT	n20	5180	Ant1	19.926
NVNT	n20	5200	Ant1	20.484
NVNT	n20	5240	Ant1	20.088
NVNT	n40	5190	Ant1	40.416
NVNT	n40	5230	Ant1	40.446
NVNT	ac20	5180	Ant1	20.181
NVNT	ac20	5200	Ant1	20.31
NVNT	ac20	5240	Ant1	20.325
NVNT	ac40	5190	Ant1	40.704
NVNT	ac40	5230	Ant1	41.724
NVNT	ac80	5210	Ant1	86.592

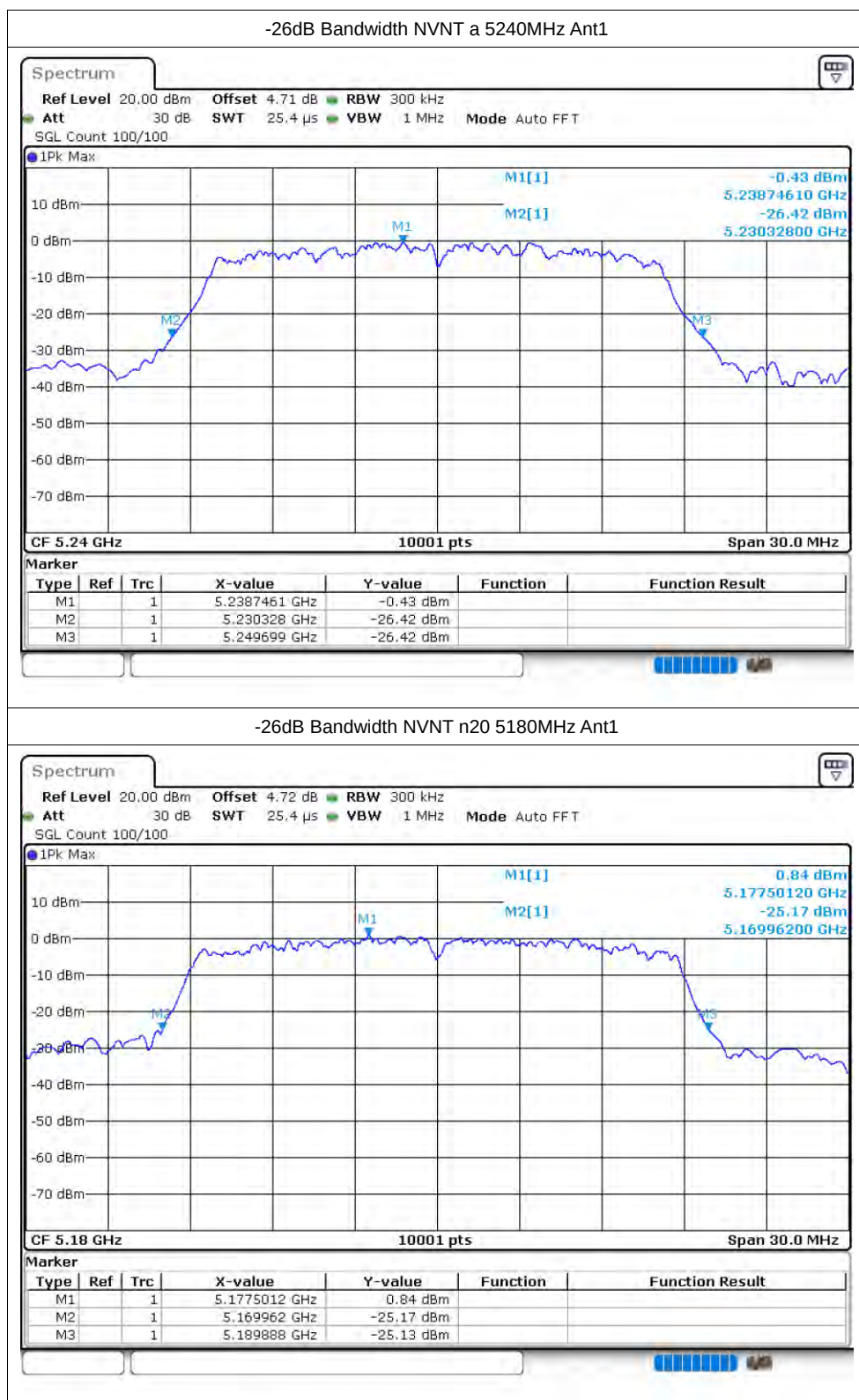
Test Graphs

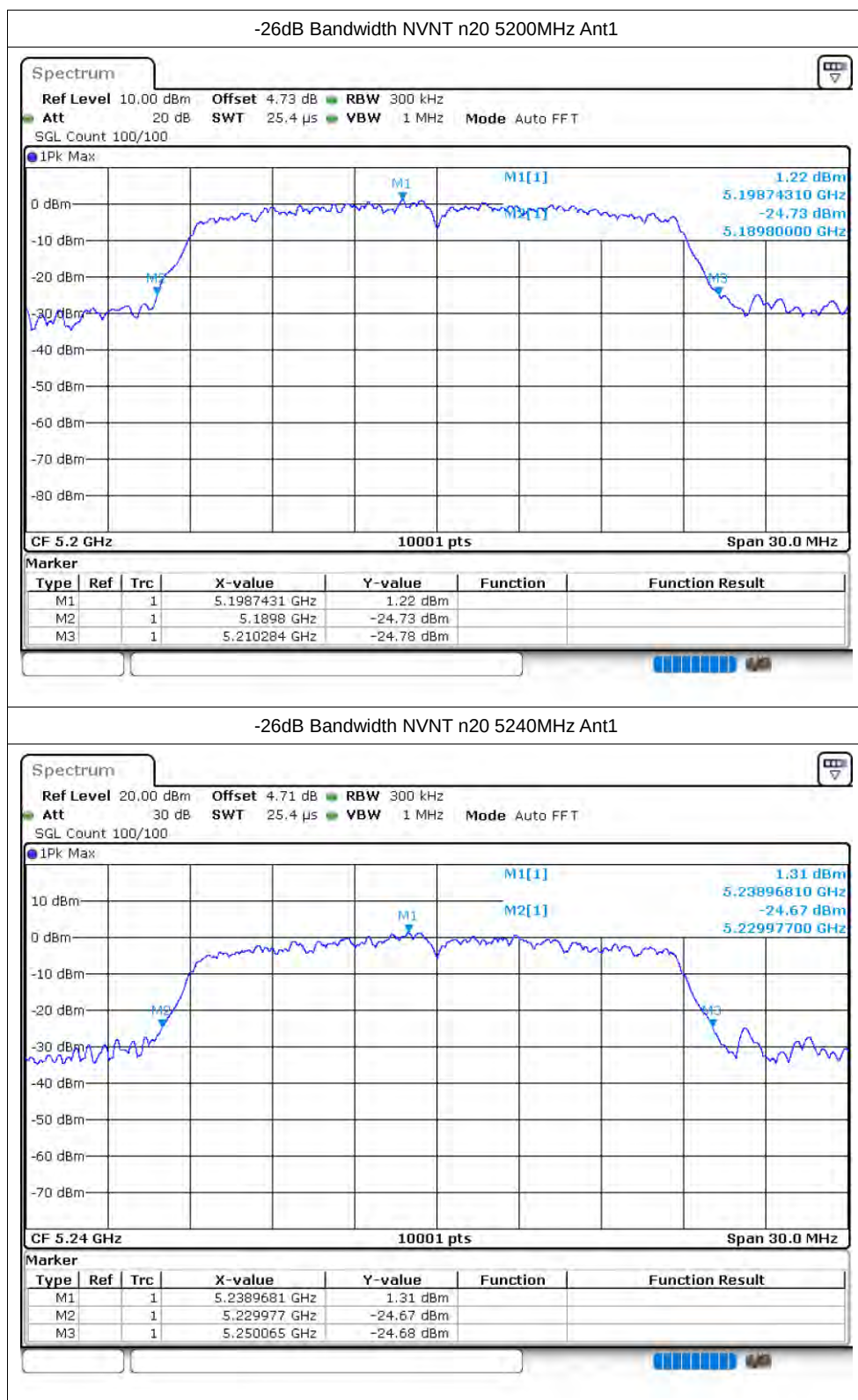
-26dB Bandwidth NVNT a 5180MHz Ant1

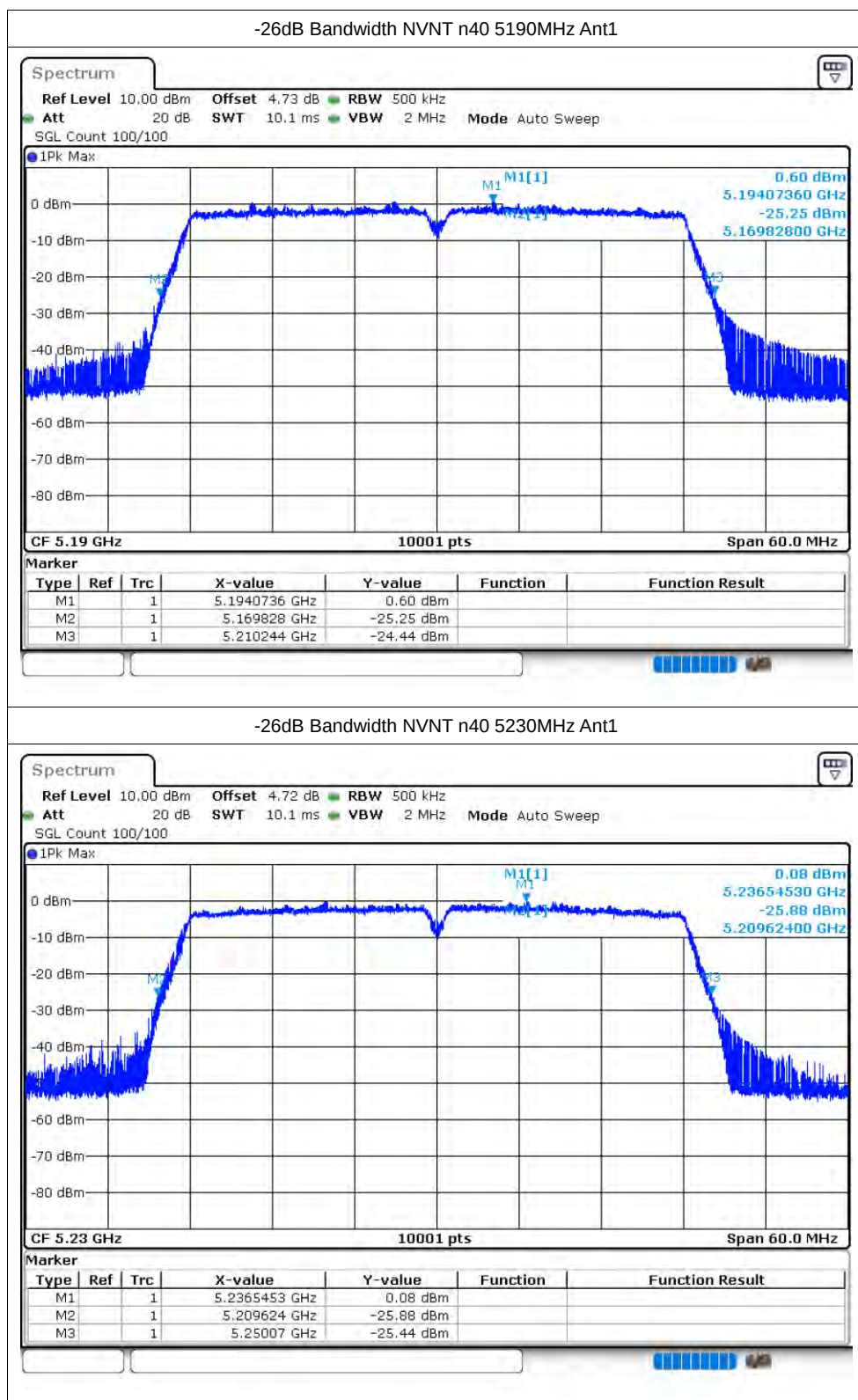


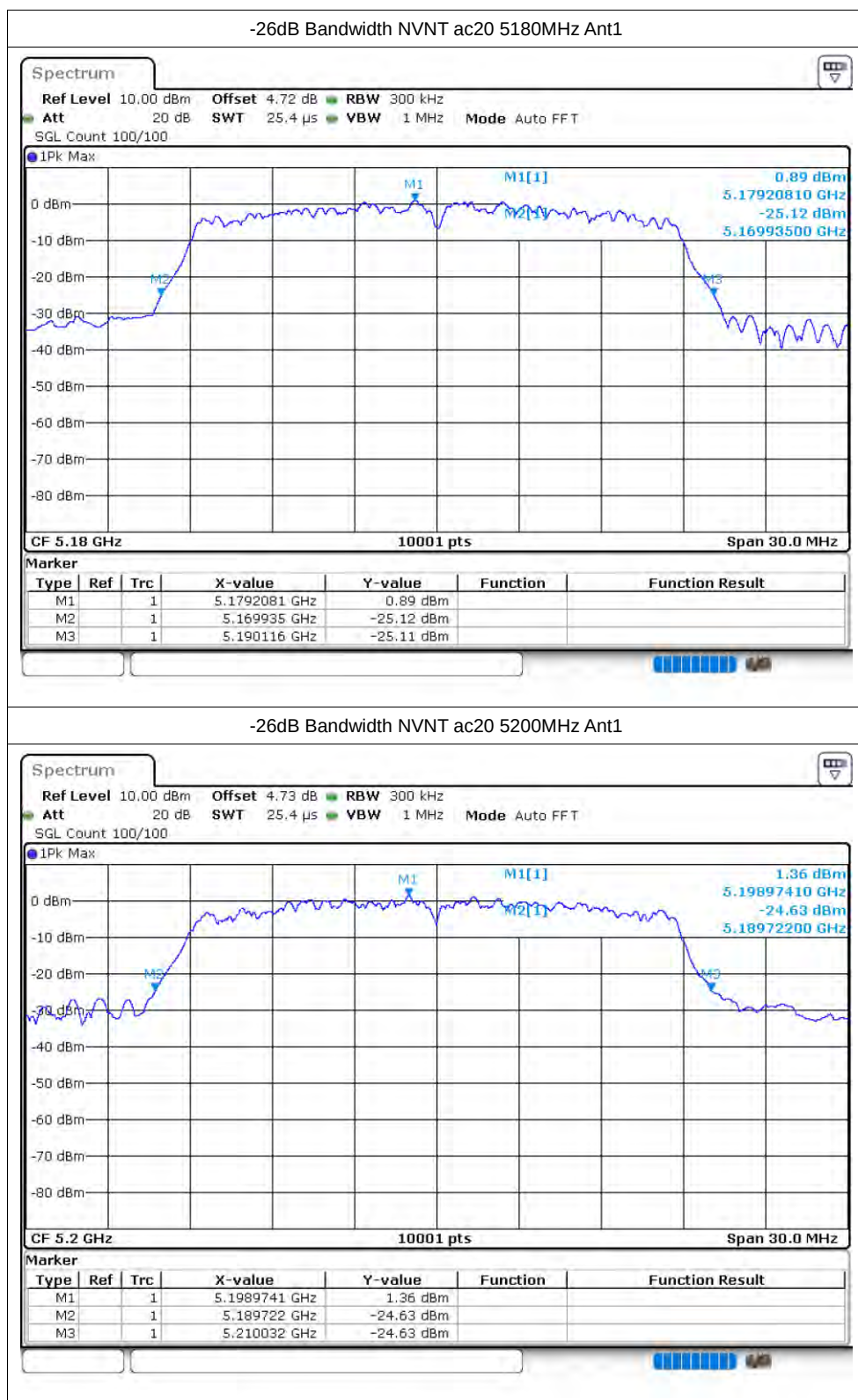
-26dB Bandwidth NVNT a 5200MHz Ant1

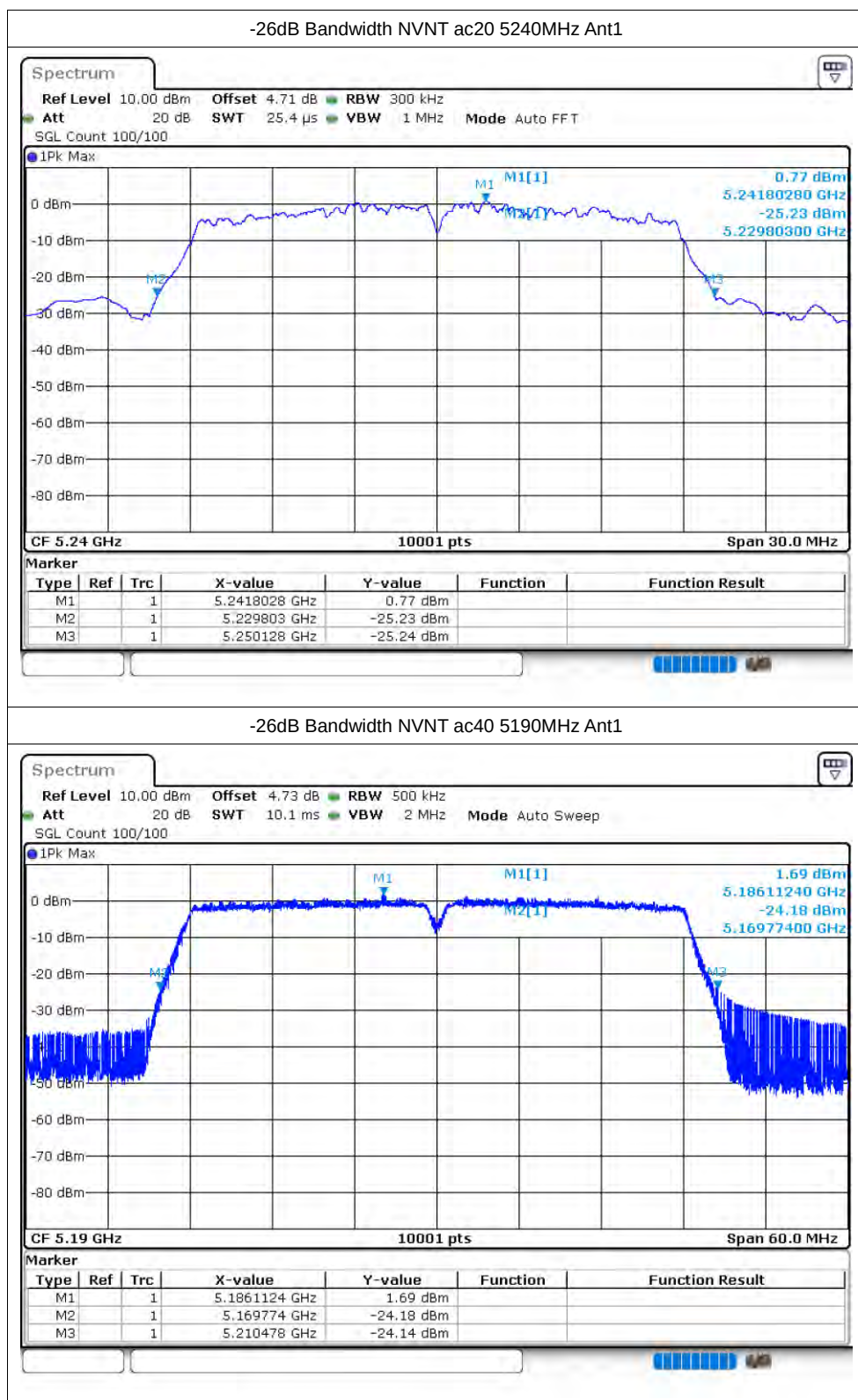


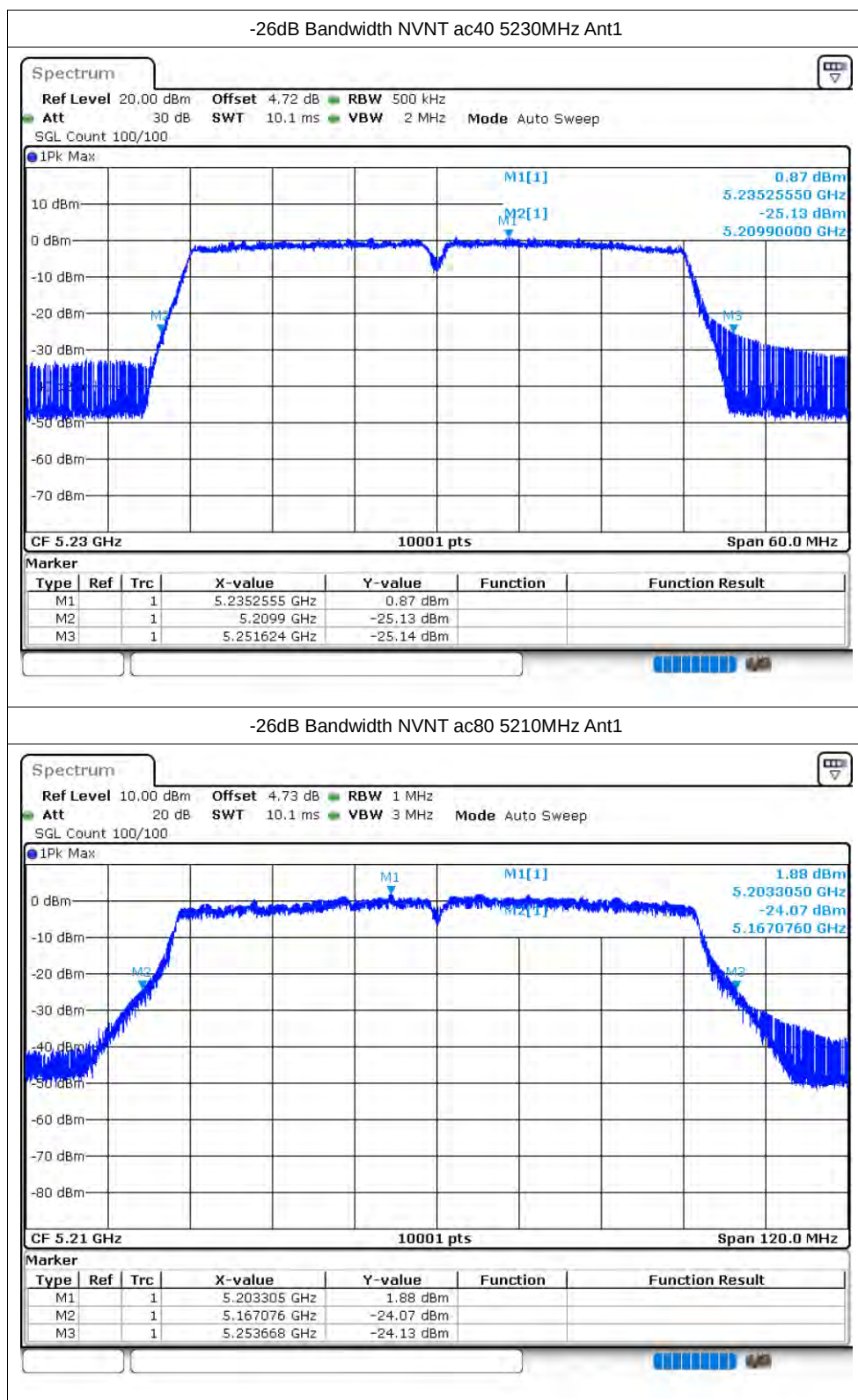












Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.672
NVNT	a	5200	Ant1	16.723
NVNT	a	5240	Ant1	16.753
NVNT	n20	5180	Ant1	17.617
NVNT	n20	5200	Ant1	17.734
NVNT	n20	5240	Ant1	17.524
NVNT	n40	5190	Ant1	36.44
NVNT	n40	5230	Ant1	36.338
NVNT	ac20	5180	Ant1	17.647
NVNT	ac20	5200	Ant1	17.656
NVNT	ac20	5240	Ant1	17.734
NVNT	ac40	5190	Ant1	36.386
NVNT	ac40	5230	Ant1	36.272
NVNT	ac80	5210	Ant1	75.544

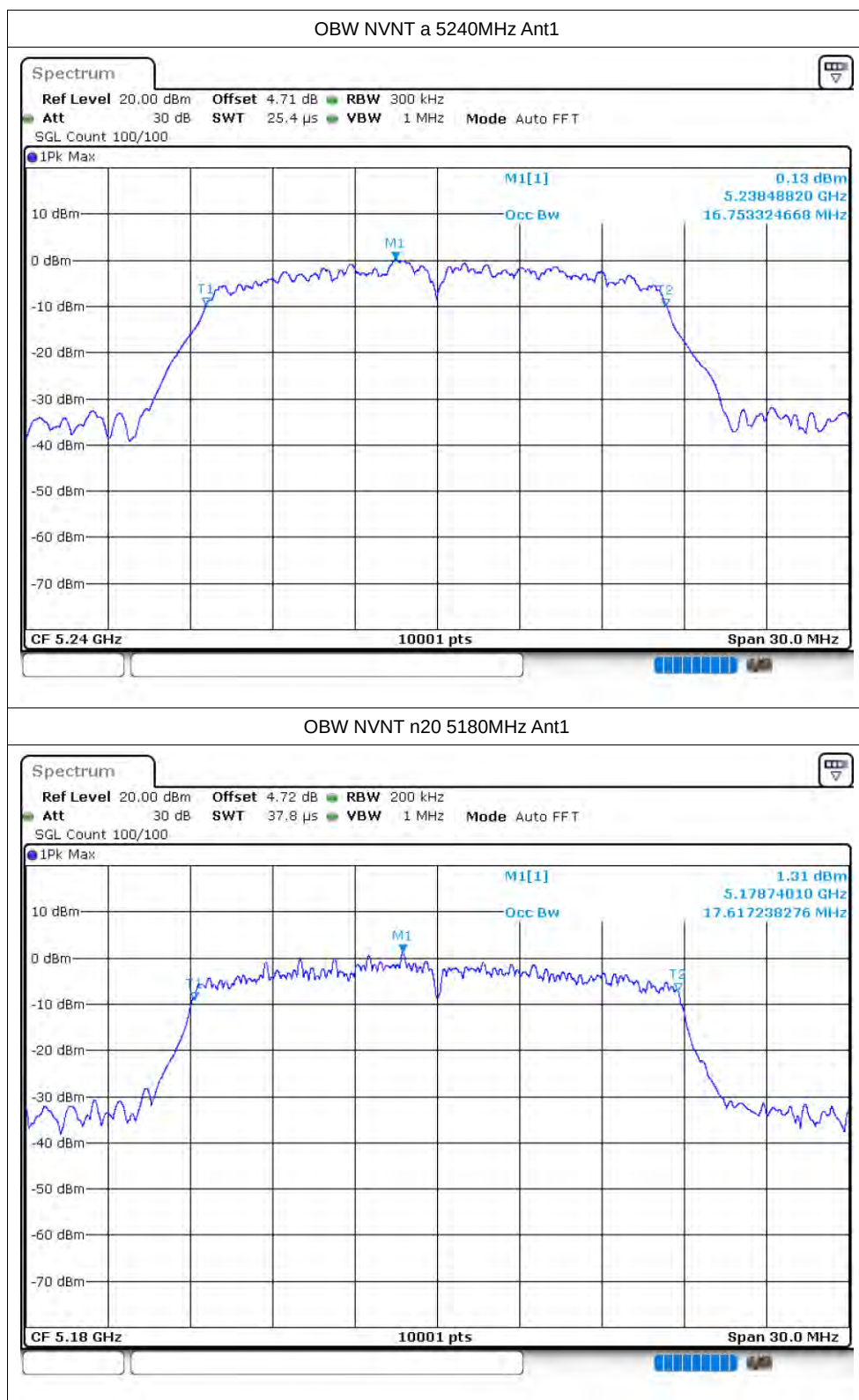
Test Graphs

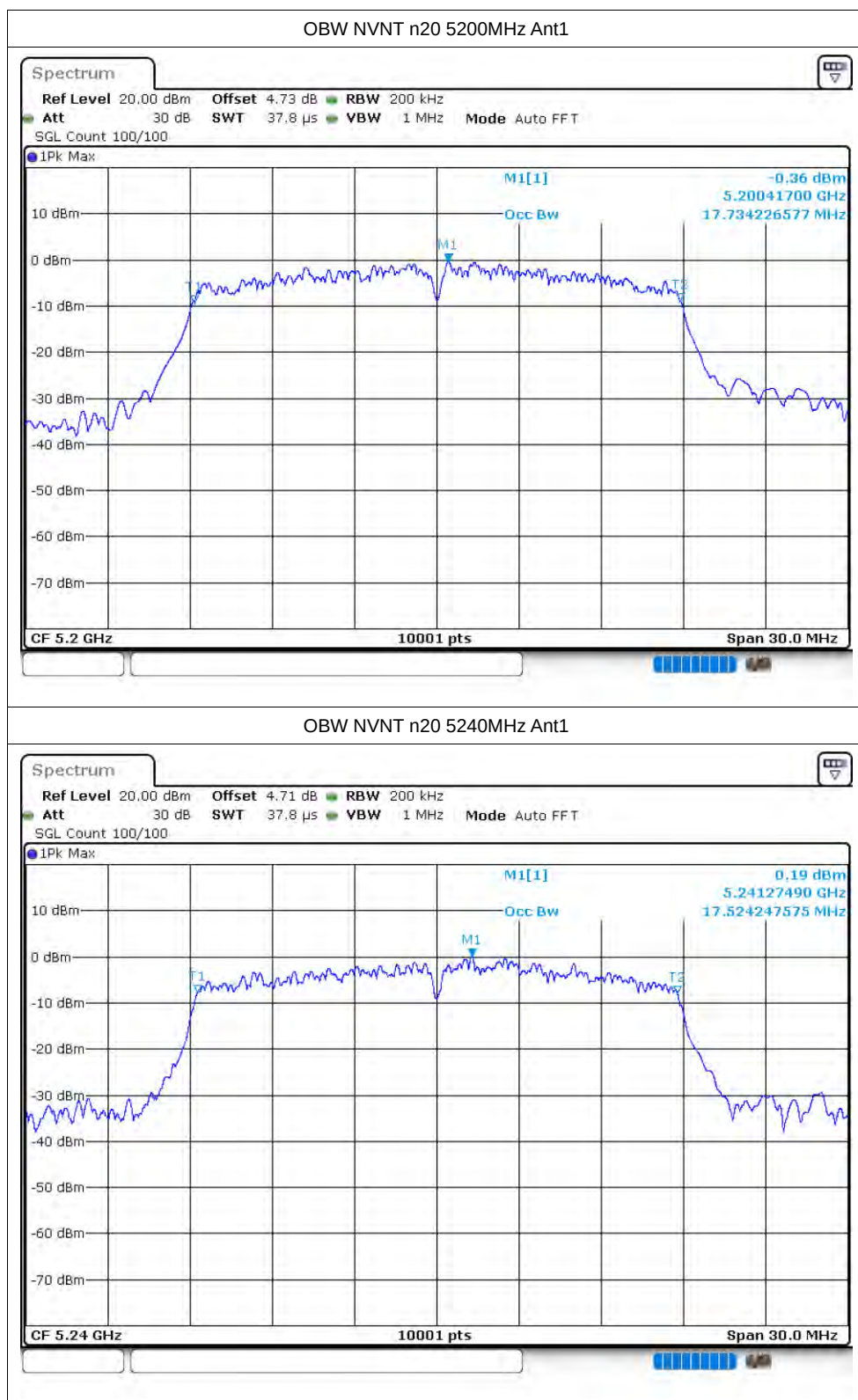
OBW NVNT a 5180MHz Ant1

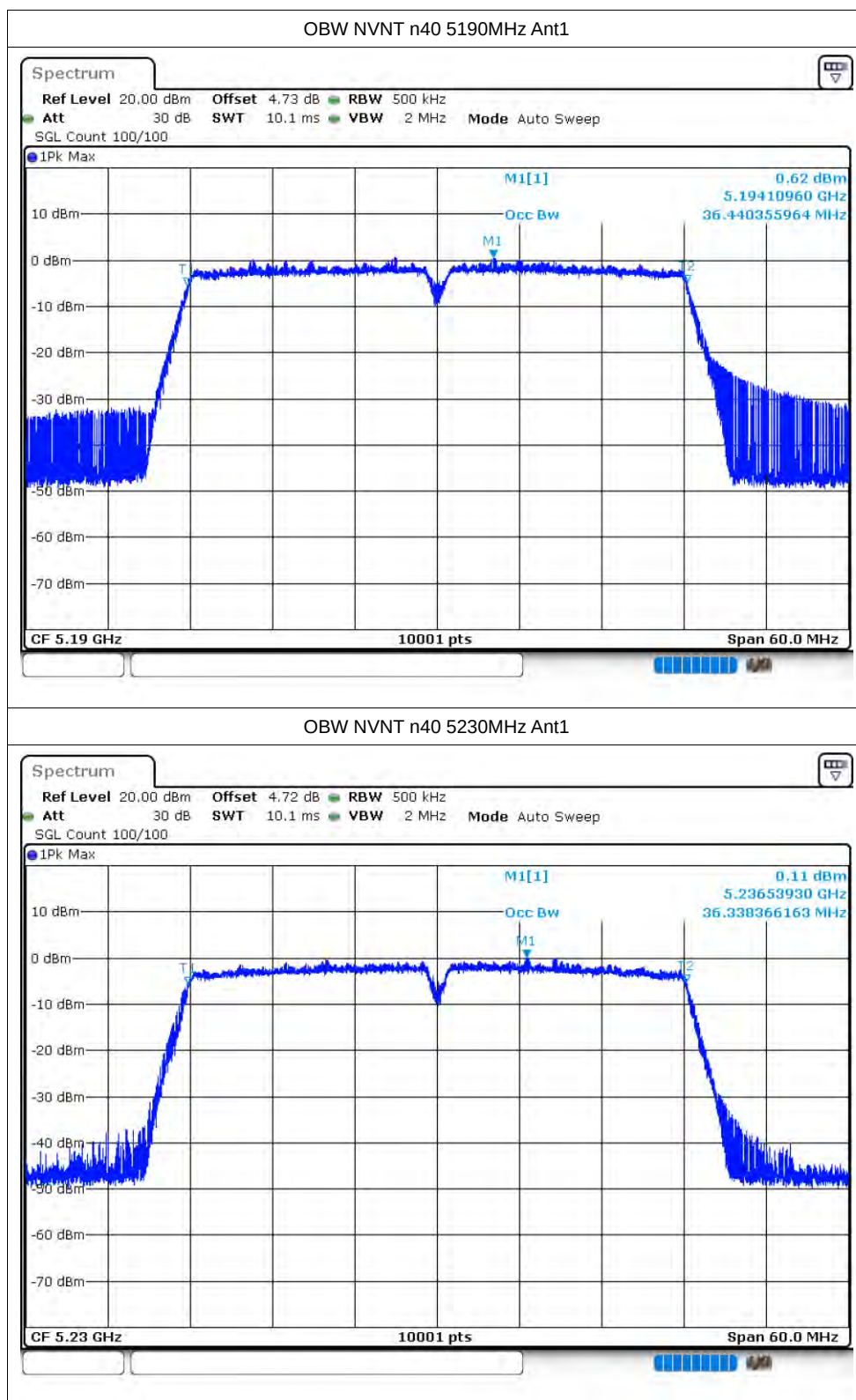


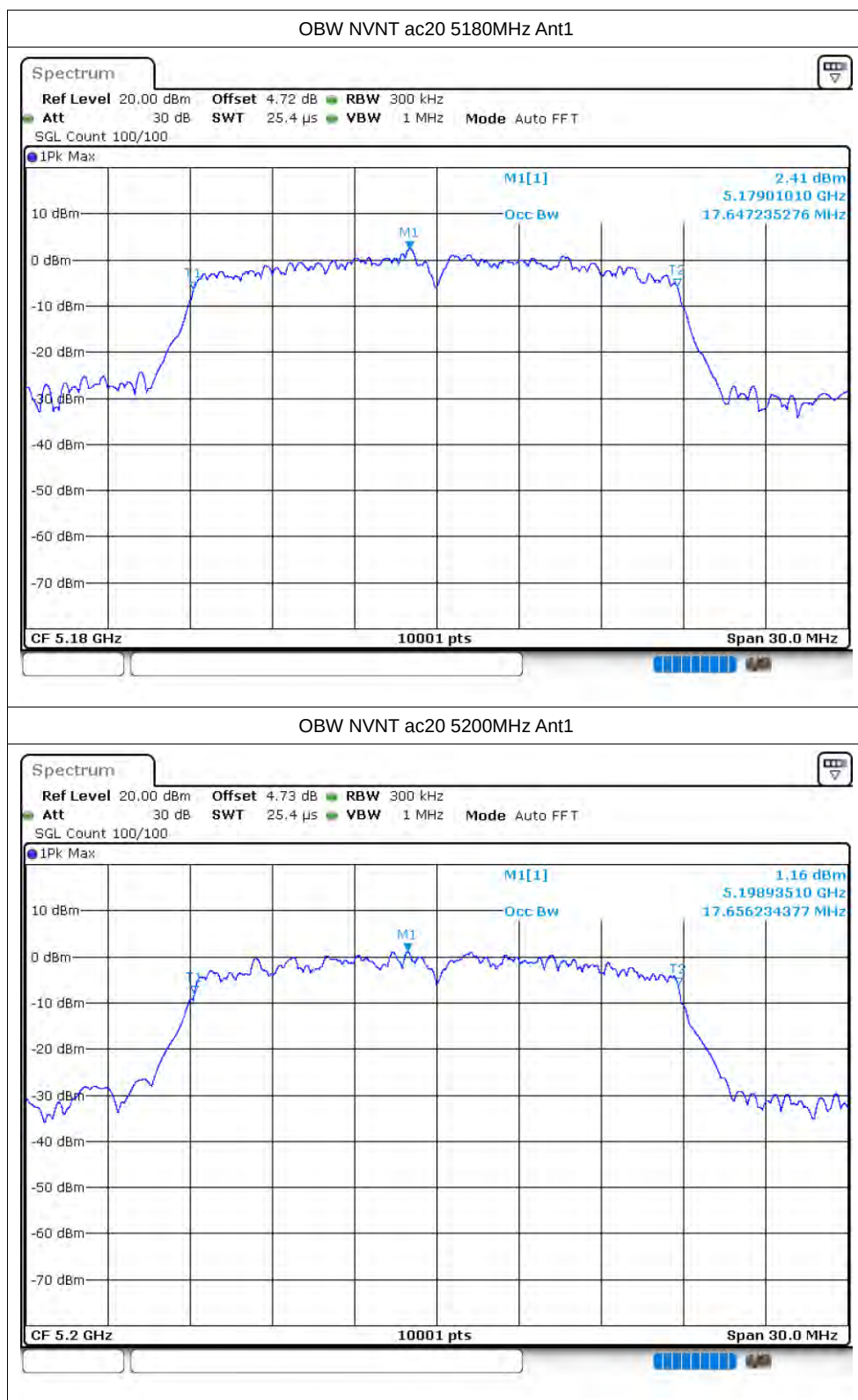
OBW NVNT a 5200MHz Ant1

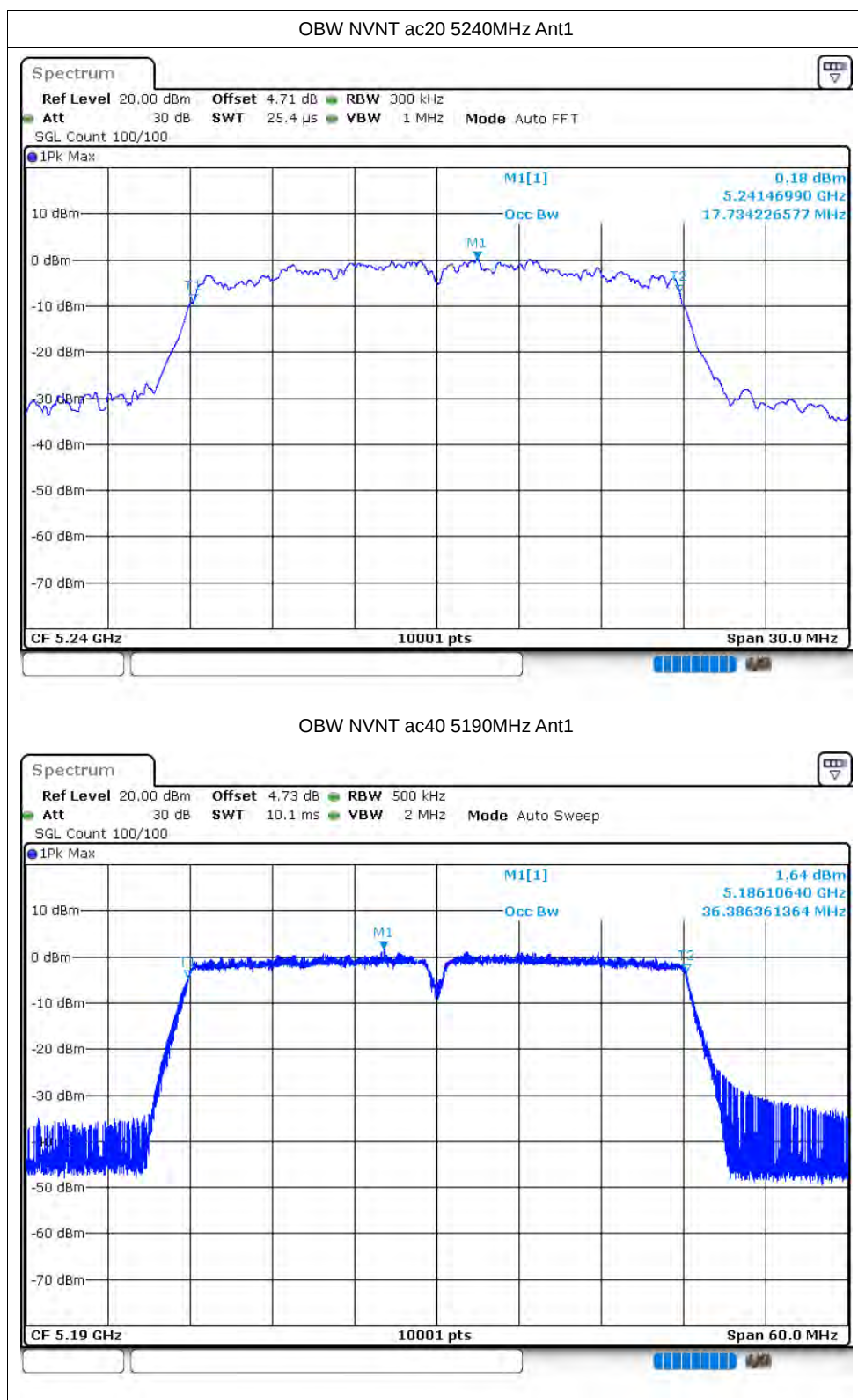


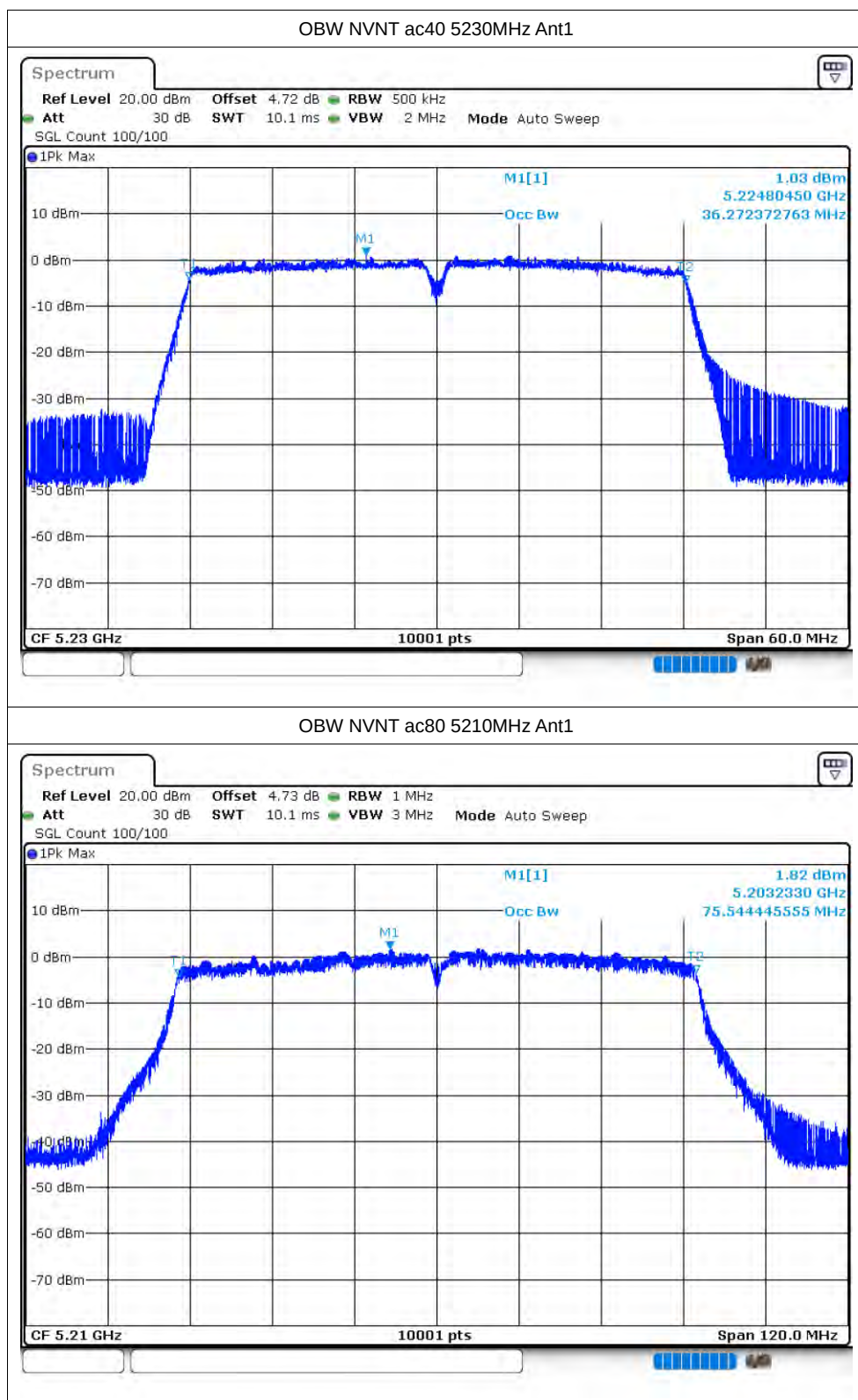










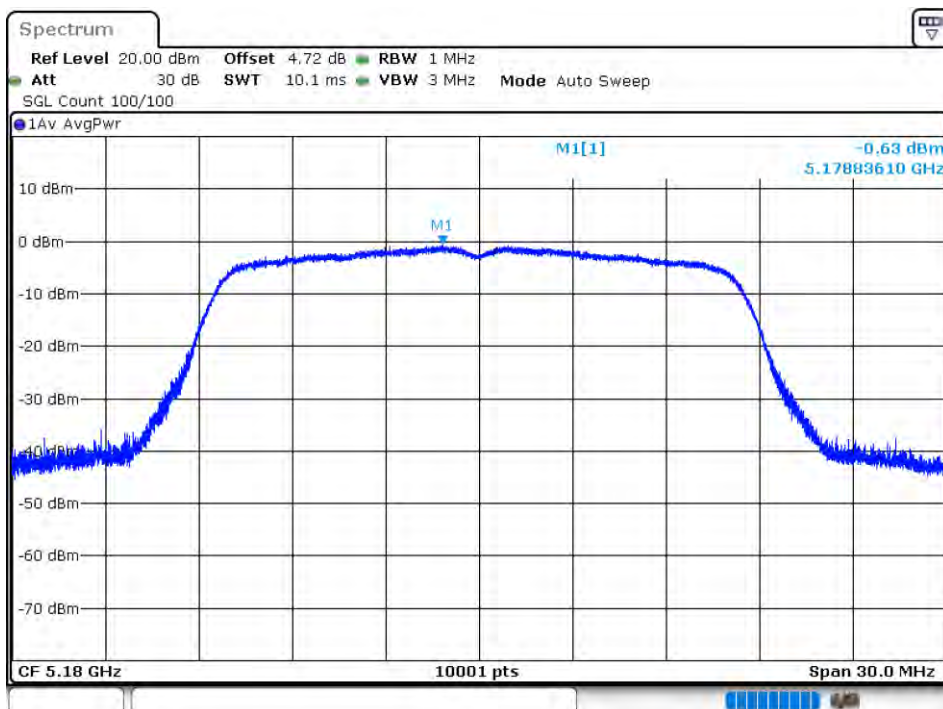


Maximum Power Spectral Density Level

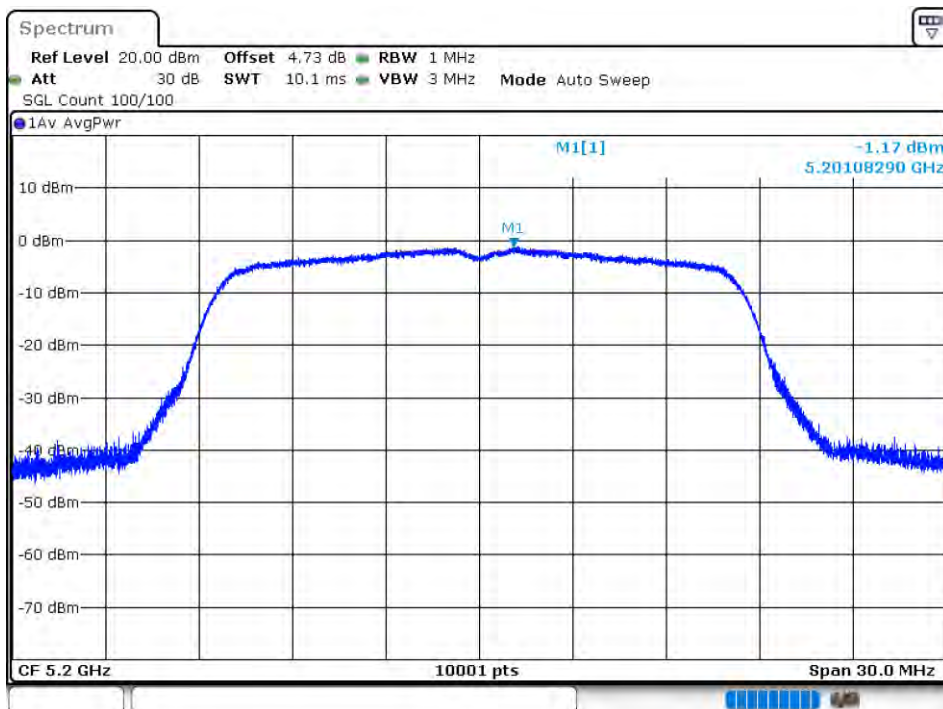
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.63	0.34	-0.29	11	Pass
NVNT	a	5200	Ant1	-1.17	0.35	-0.82	11	Pass
NVNT	a	5240	Ant1	-2.24	0.34	-1.9	11	Pass
NVNT	n20	5180	Ant1	-0.81	0.37	-0.44	11	Pass
NVNT	n20	5200	Ant1	-1	0.37	-0.63	11	Pass
NVNT	n20	5240	Ant1	-1.37	0.37	-1	11	Pass
NVNT	n40	5190	Ant1	-6.13	1.2	-4.93	11	Pass
NVNT	n40	5230	Ant1	-6.14	1.19	-4.95	11	Pass
NVNT	ac20	5180	Ant1	-0.14	0.37	0.23	11	Pass
NVNT	ac20	5200	Ant1	-0.56	0.36	-0.2	11	Pass
NVNT	ac20	5240	Ant1	-1.1	0.36	-0.74	11	Pass
NVNT	ac40	5190	Ant1	-4.27	1.22	-3.05	11	Pass
NVNT	ac40	5230	Ant1	-4.61	1.18	-3.43	11	Pass
NVNT	ac80	5210	Ant1	-8.61	2.12	-6.49	11	Pass

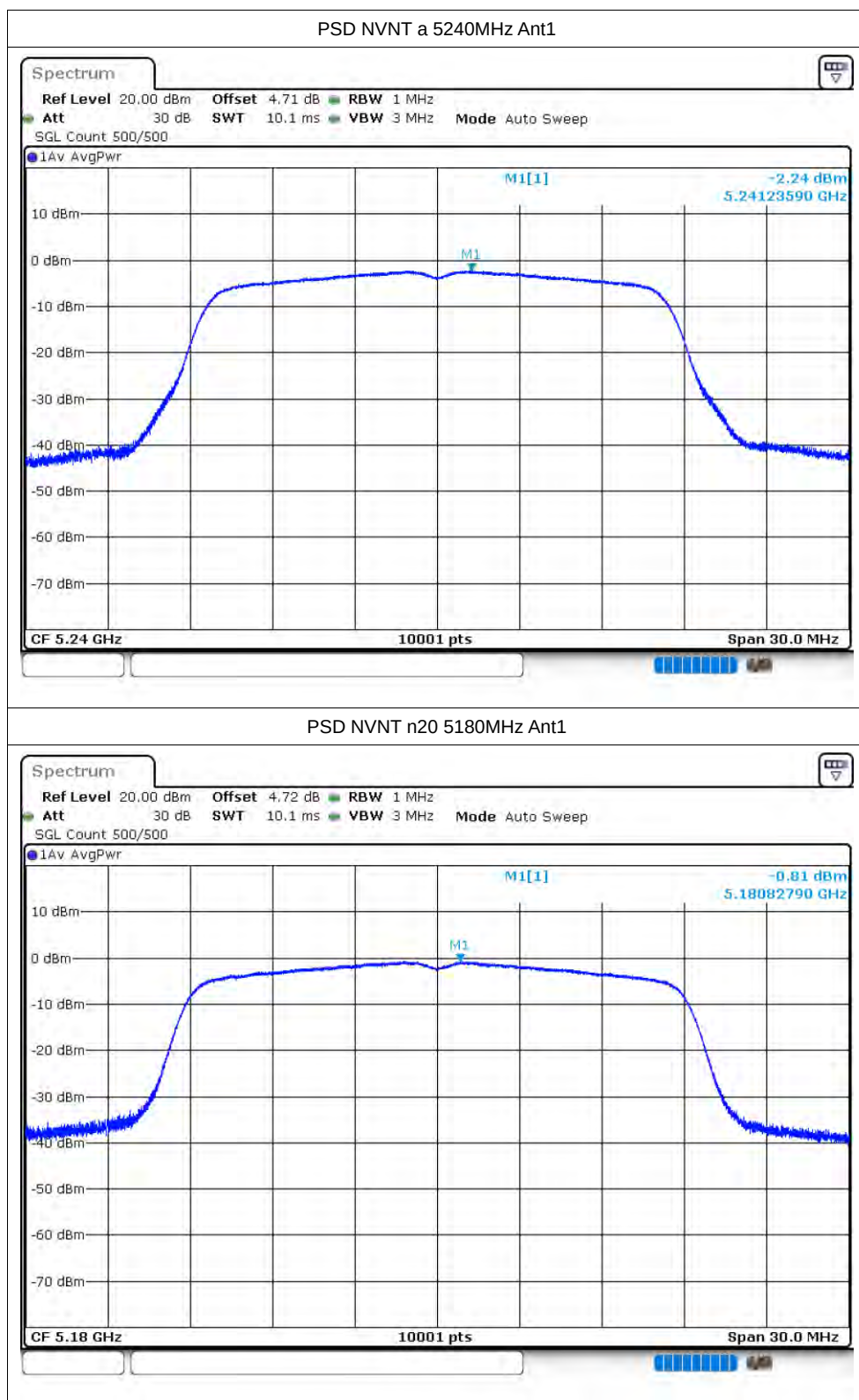
Test Graphs

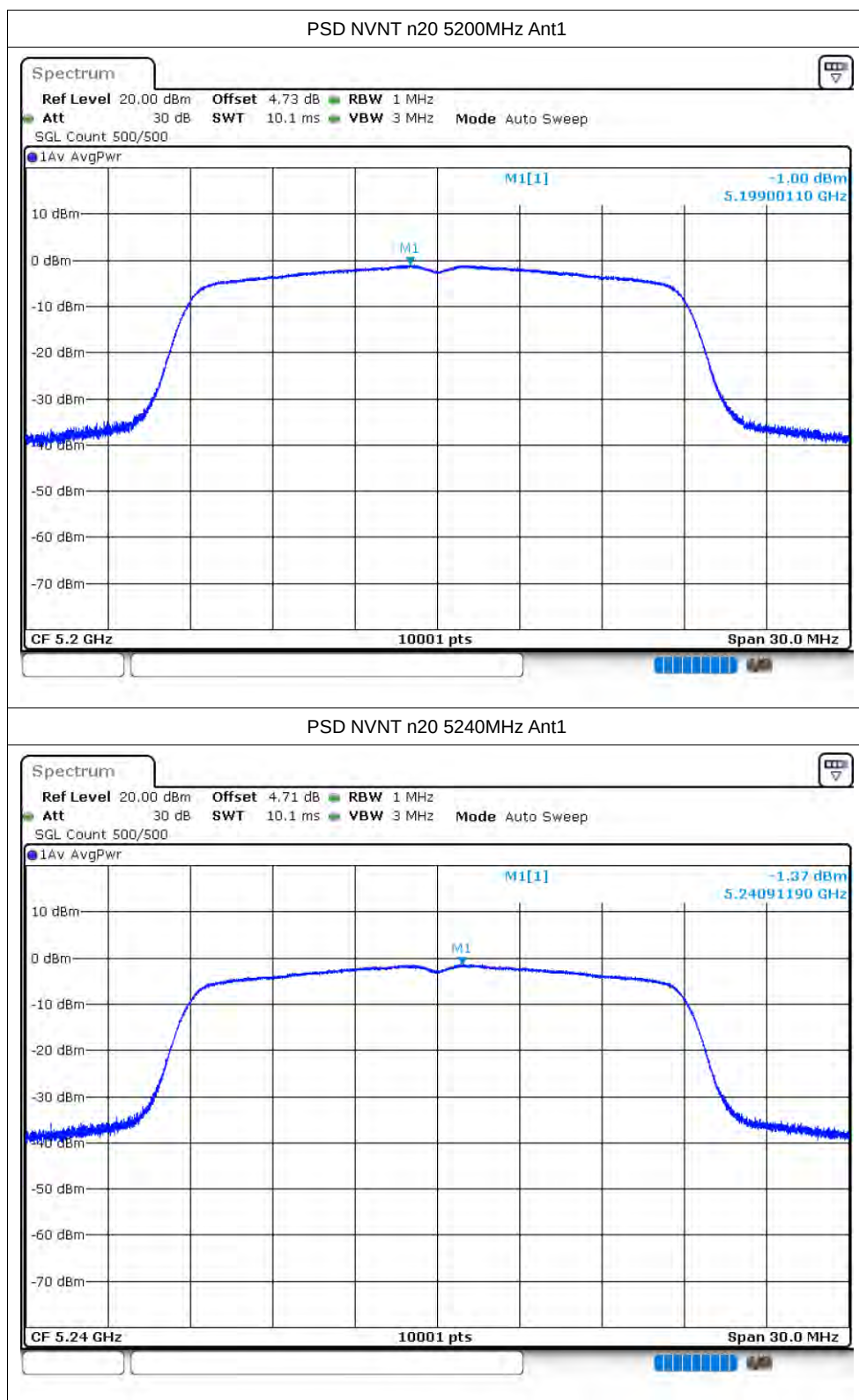
PSD NVNT a 5180MHz Ant1

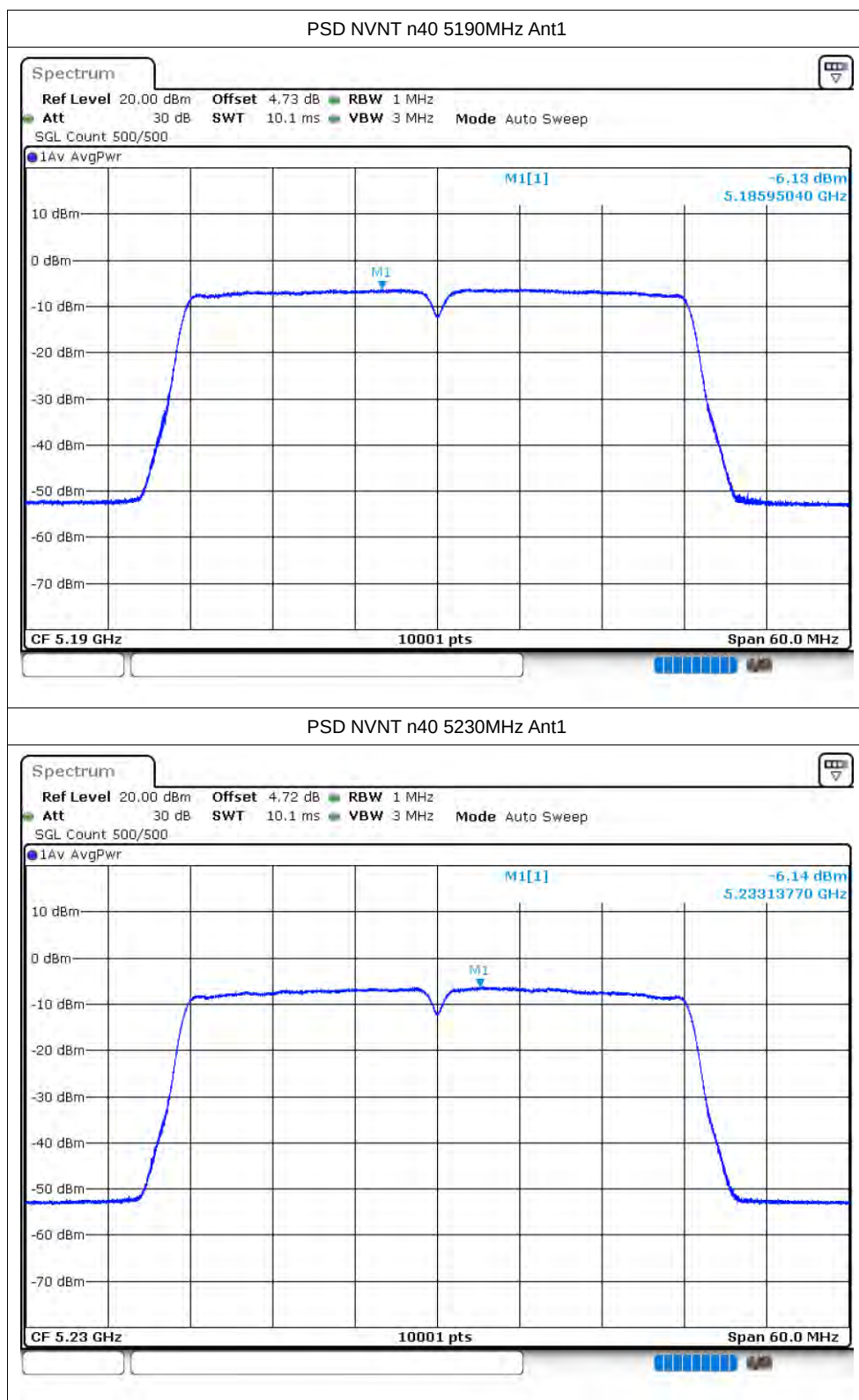


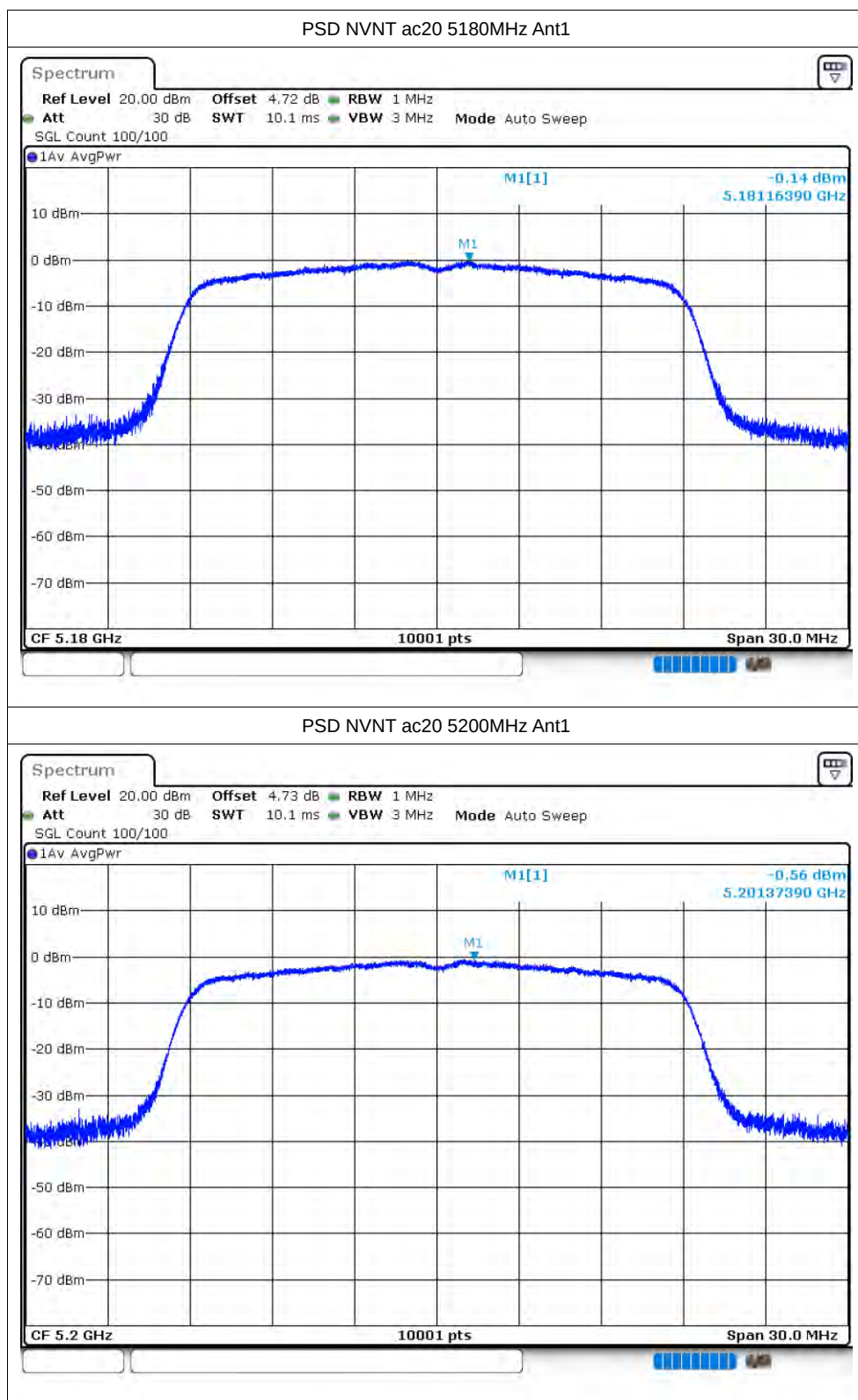
PSD NVNT a 5200MHz Ant1

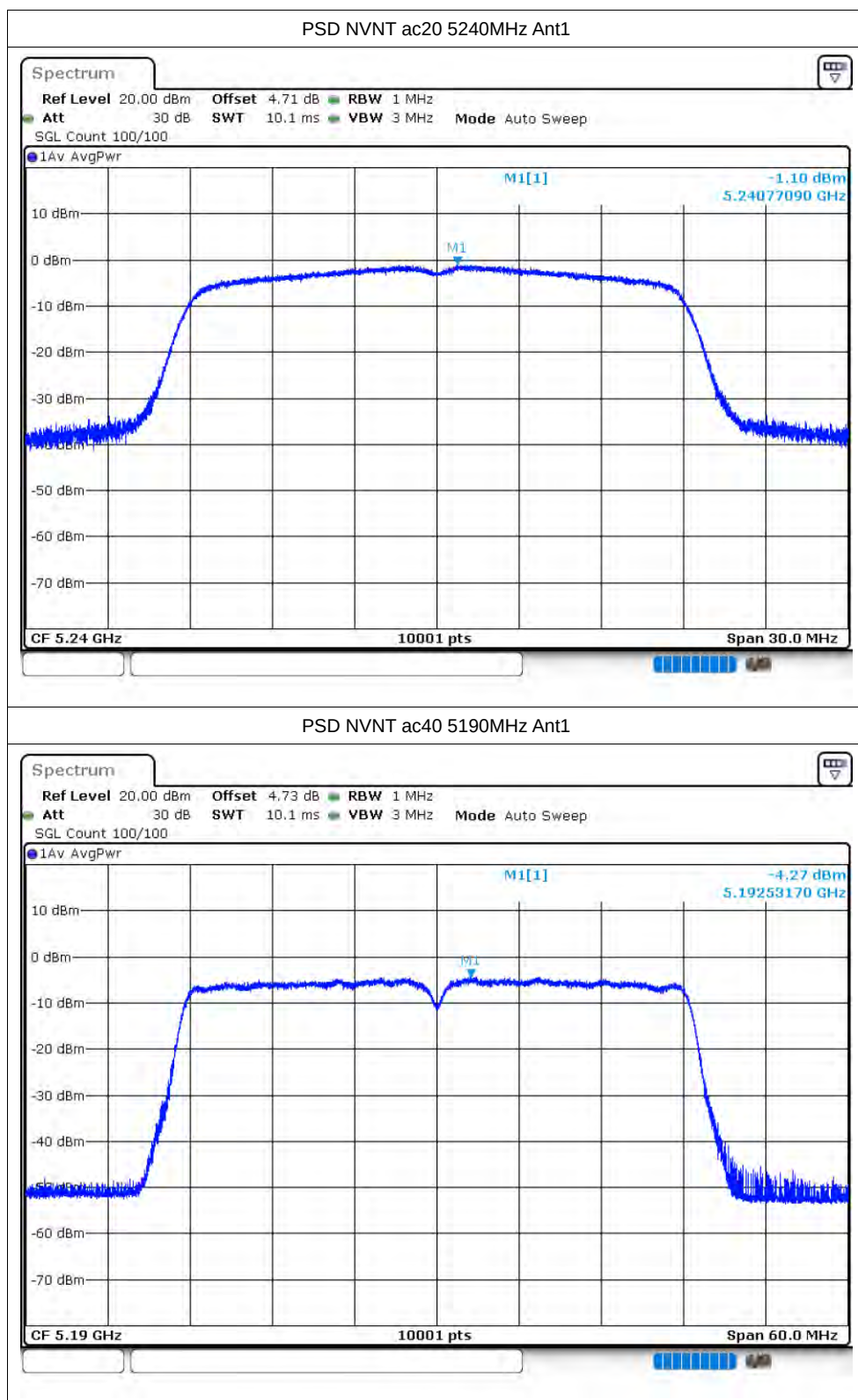


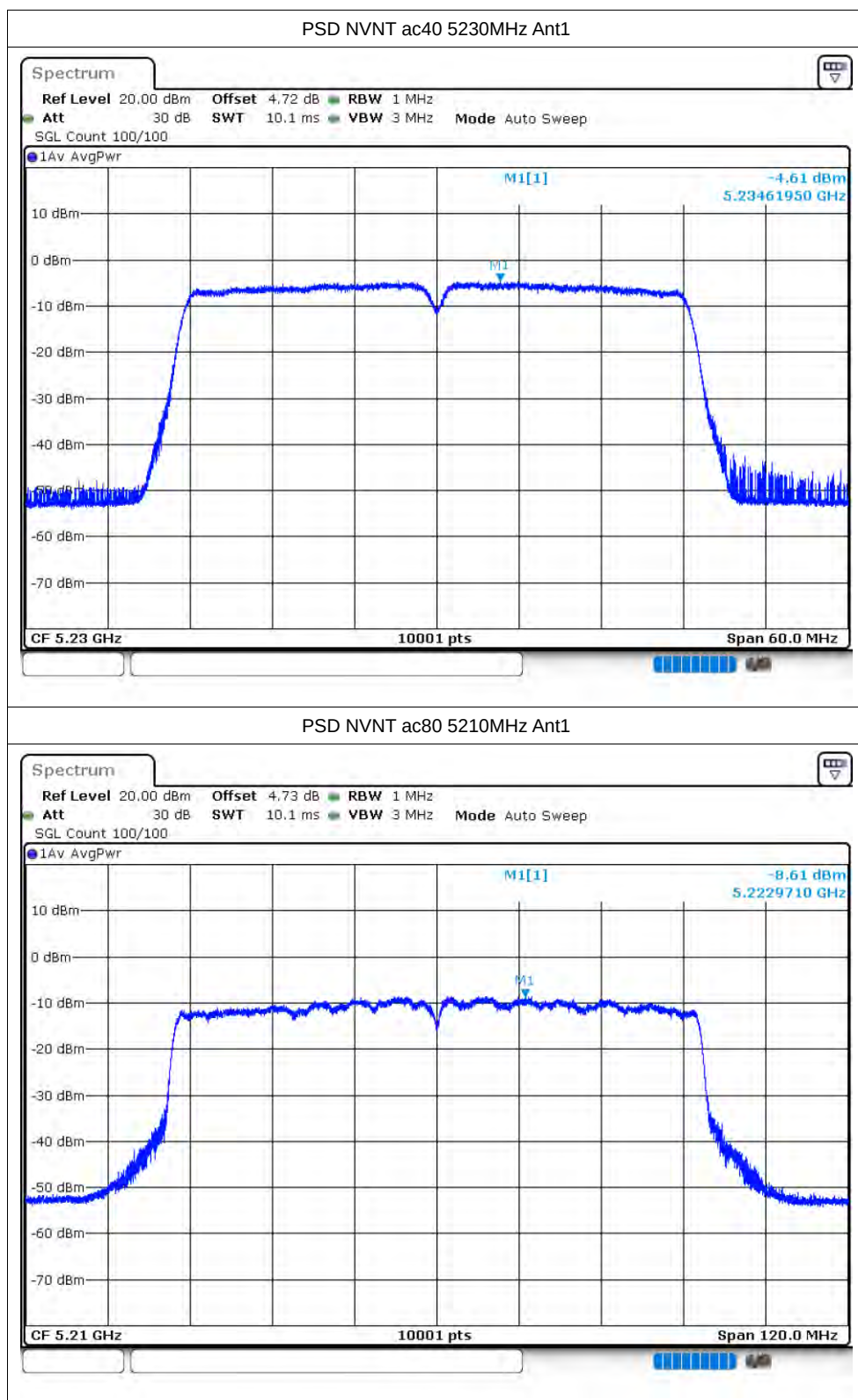












Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-37.79	-27	Pass
NVNT	a	5240	Ant1	-41.8	-27	Pass
NVNT	n20	5180	Ant1	-34.11	-27	Pass
NVNT	n20	5240	Ant1	-40.32	-27	Pass
NVNT	n40	5190	Ant1	-40.08	-27	Pass
NVNT	n40	5230	Ant1	-40.7	-27	Pass
NVNT	ac20	5180	Ant1	-30.91	-27	Pass
NVNT	ac20	5240	Ant1	-42.03	-27	Pass
NVNT	ac40	5190	Ant1	-31.73	-27	Pass
NVNT	ac40	5230	Ant1	-36.85	-27	Pass
NVNT	ac80	5210	Ant1	-40.12	-27	Pass
NVNT	ac80	5210	Ant1	-36.05	-27	Pass

Test Graphs

Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1



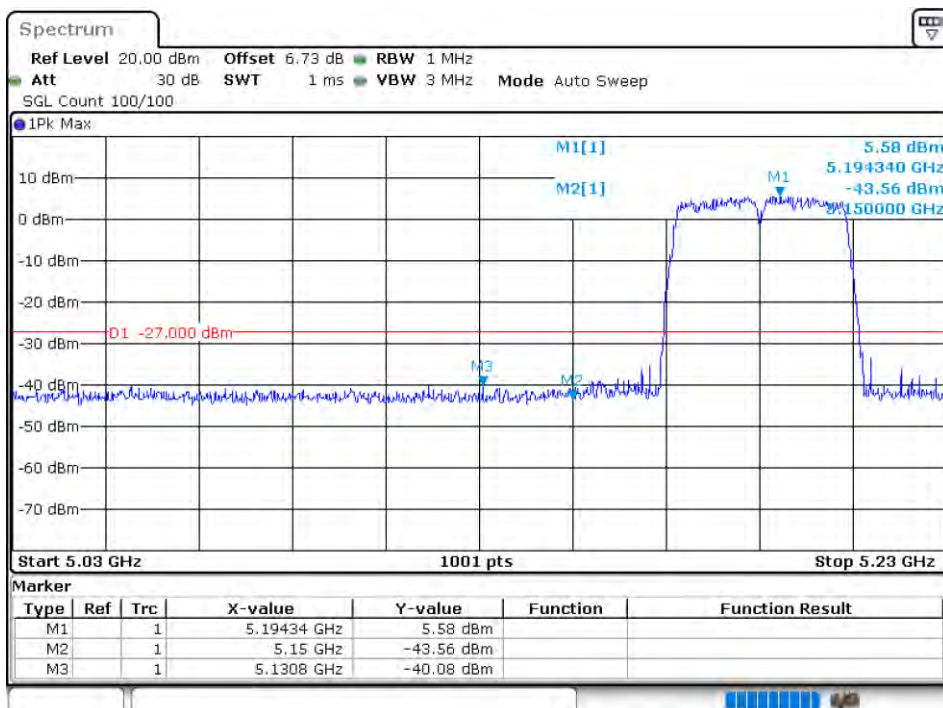
Band Edge NVNT n20 5180MHz Low Ant1



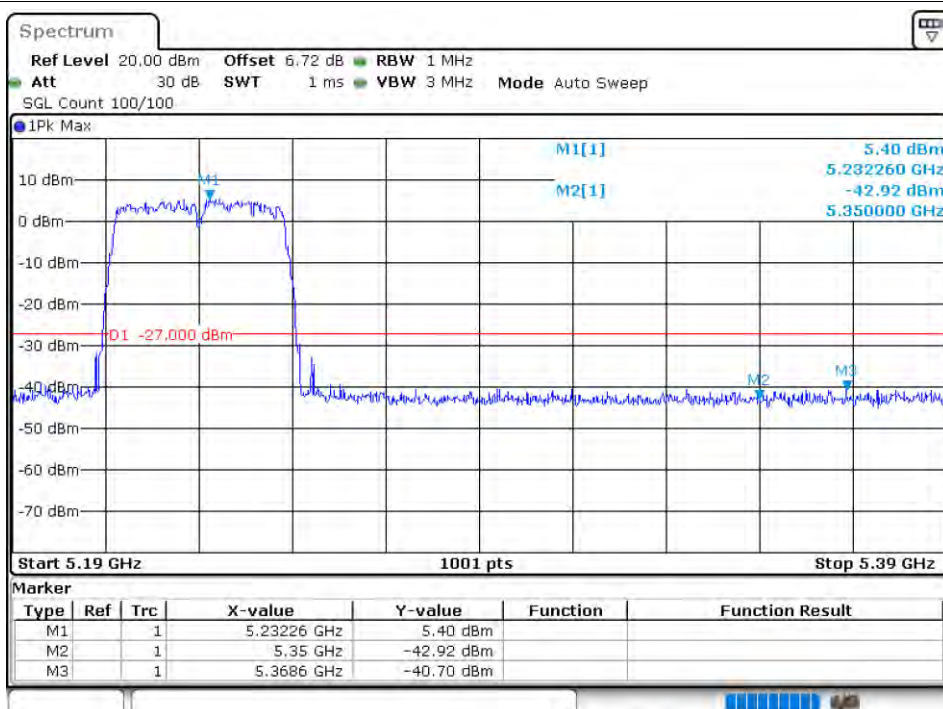
Band Edge NVNT n20 5240MHz High Ant1

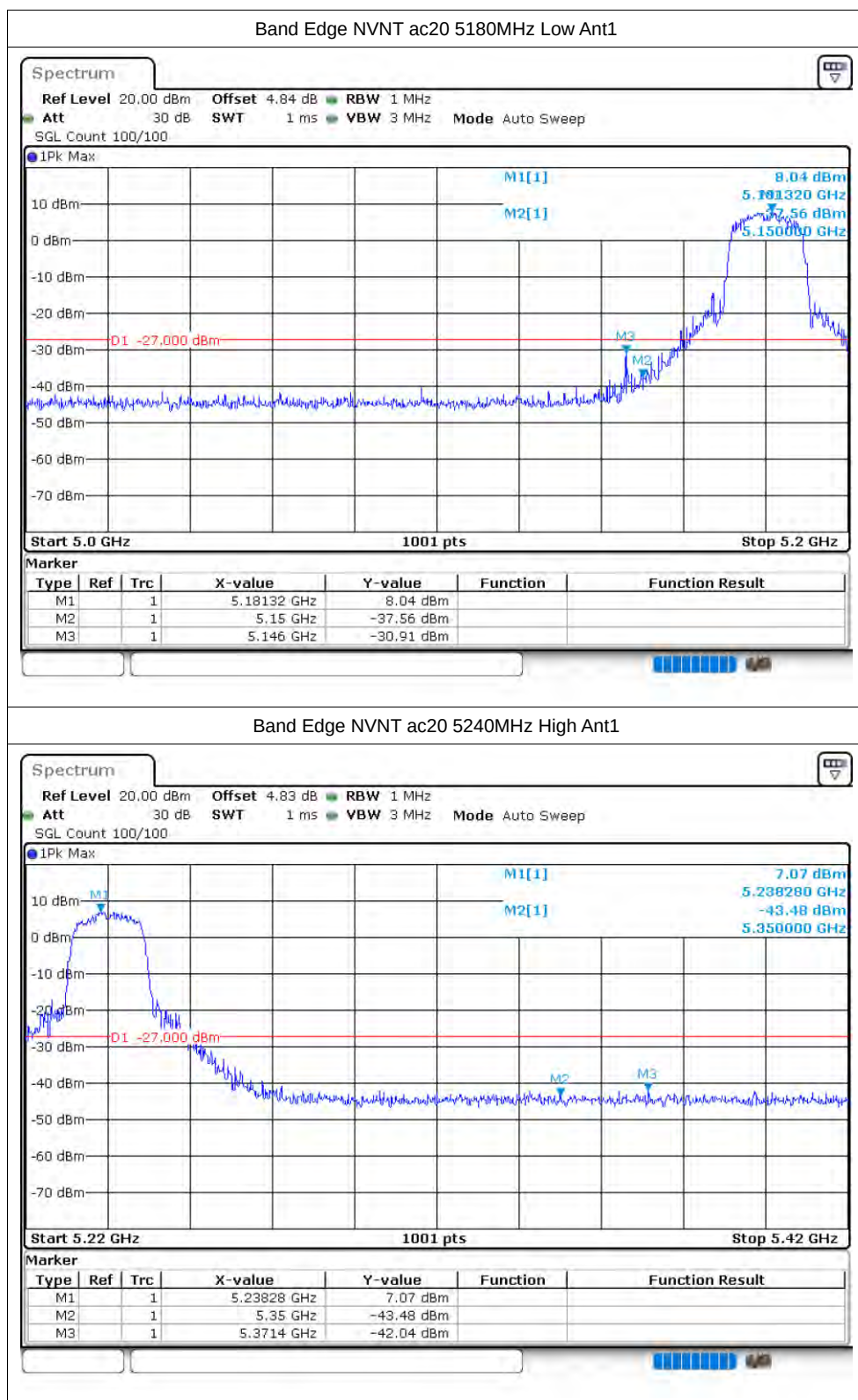


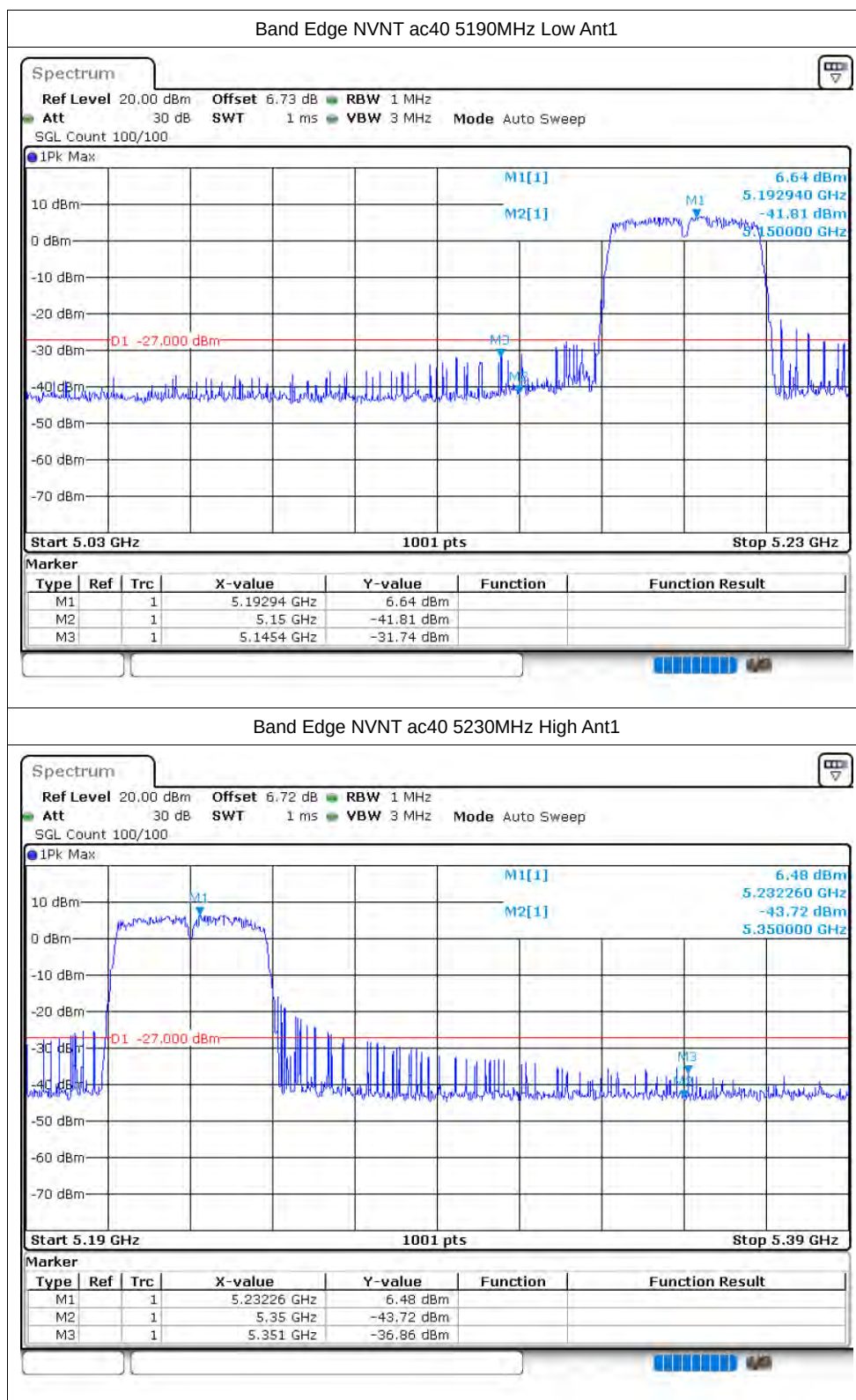
Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1



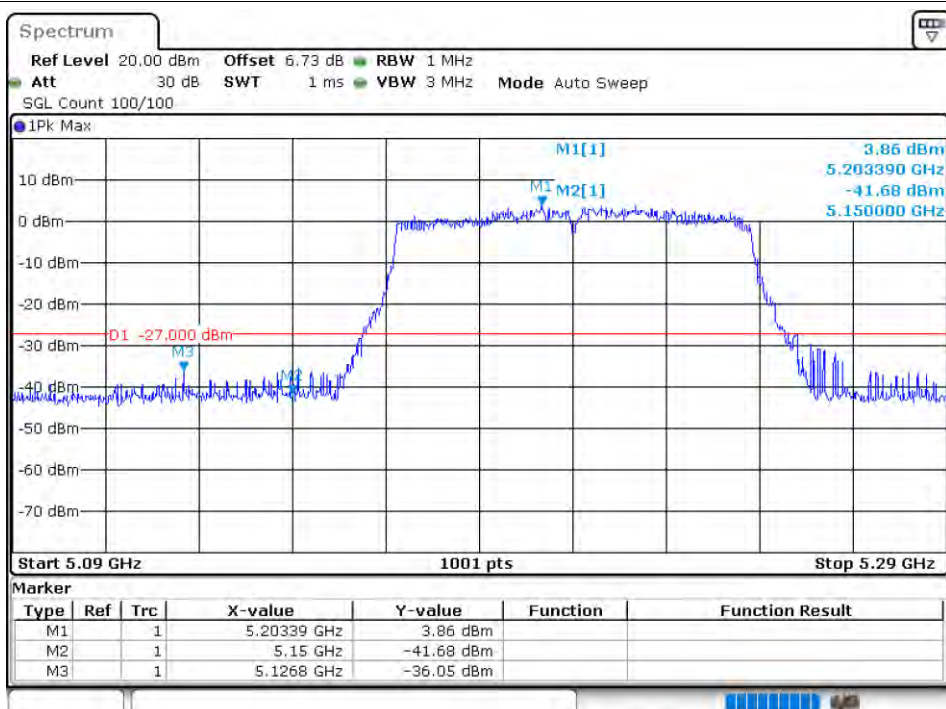




Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

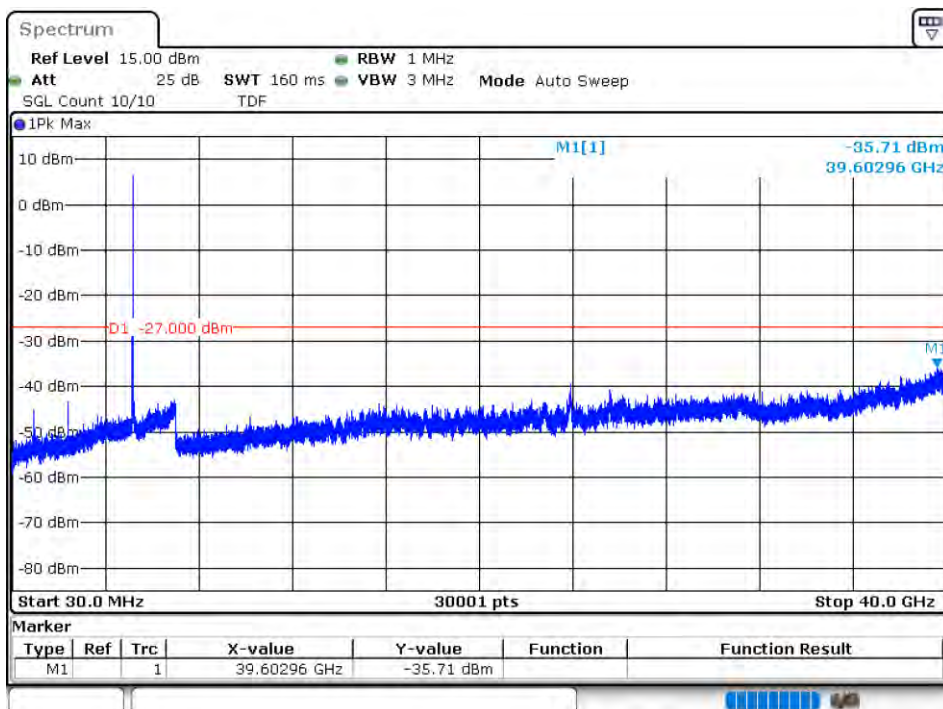


Conducted RF Spurious Emission

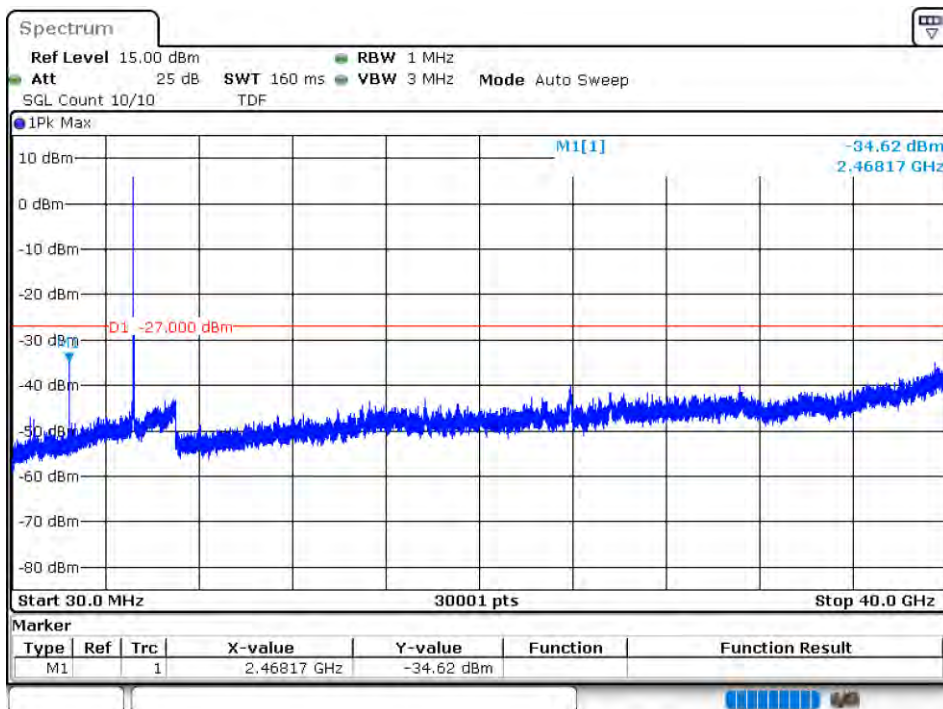
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit(dBm)	Verdict
NVNT	a	5180	Ant1	-35.7	-27	Pass
NVNT	a	5200	Ant1	-34.61	-27	Pass
NVNT	a	5240	Ant1	-36.47	-27	Pass
NVNT	n20	5180	Ant1	-36.02	-27	Pass
NVNT	n20	5200	Ant1	-36.02	-27	Pass
NVNT	n20	5240	Ant1	-36.24	-27	Pass
NVNT	n40	5190	Ant1	-33.46	-27	Pass
NVNT	n40	5230	Ant1	-33.64	-27	Pass
NVNT	ac20	5180	Ant1	-36.32	-27	Pass
NVNT	ac20	5200	Ant1	-35.69	-27	Pass
NVNT	ac20	5240	Ant1	-36.55	-27	Pass
NVNT	ac40	5190	Ant1	-33.31	-27	Pass
NVNT	ac40	5230	Ant1	-33.51	-27	Pass
NVNT	ac80	5210	Ant1	-34.21	-27	Pass

Test Graphs

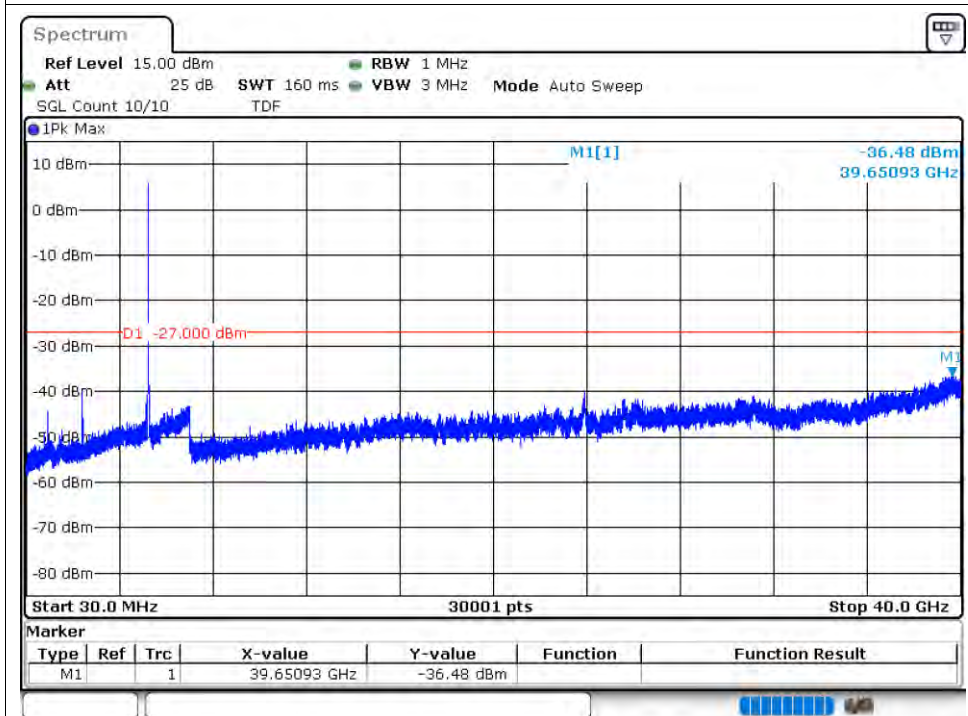
Tx. Spurious NVNT a 5180MHz Ant1 Emission



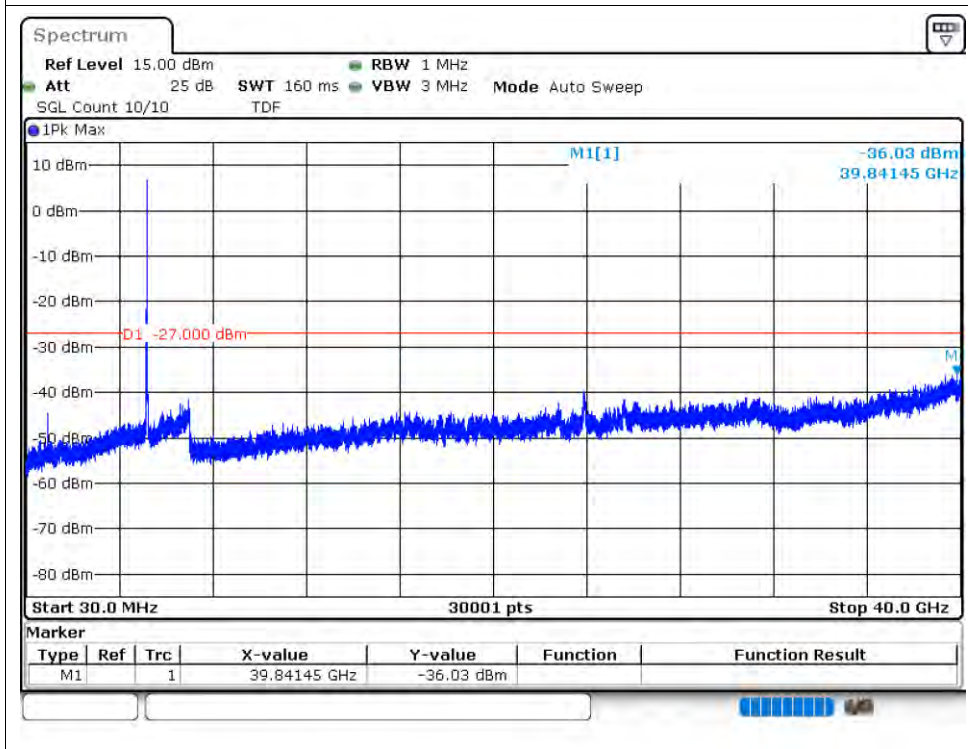
Tx. Spurious NVNT a 5200MHz Ant1 Emission

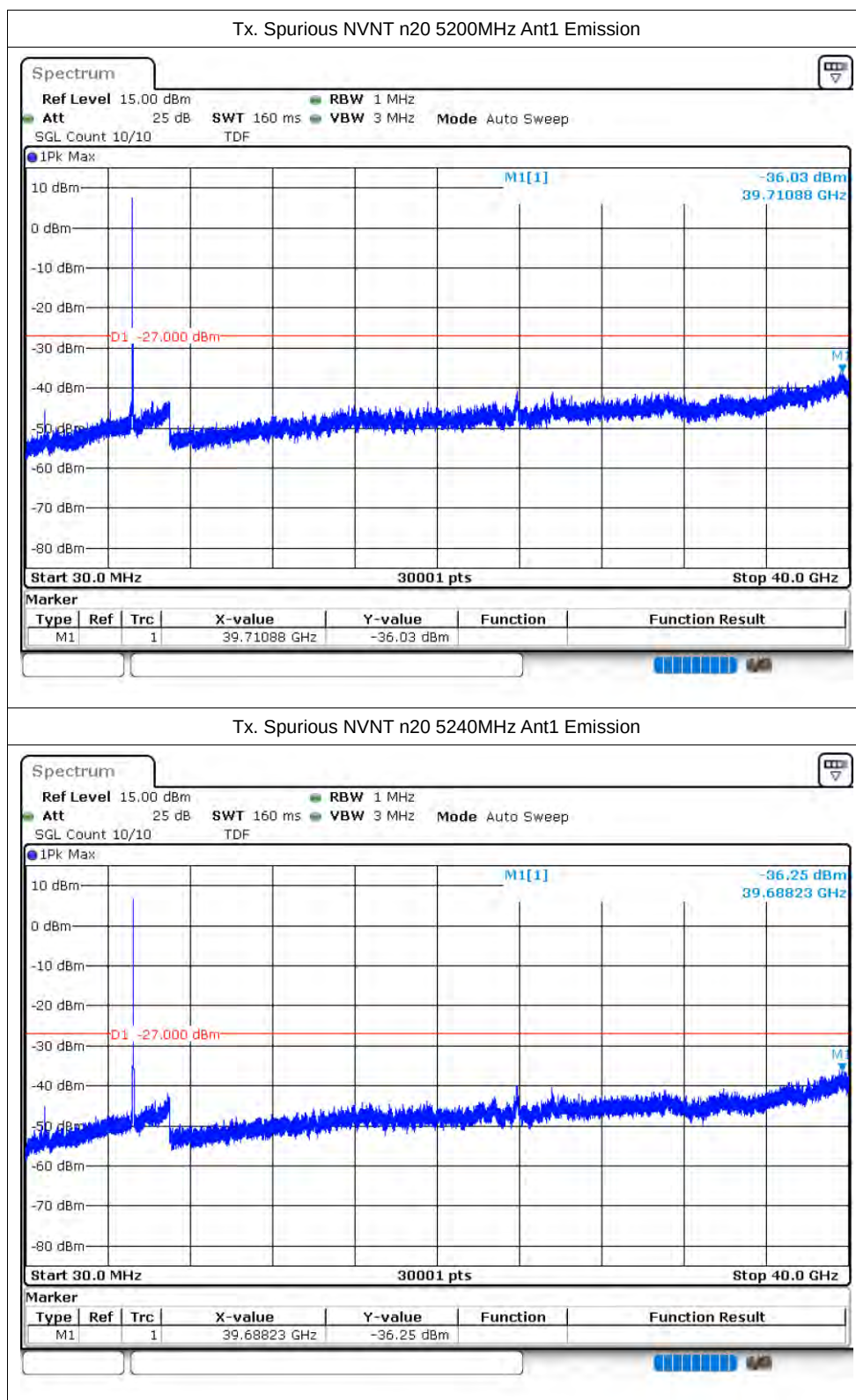


Tx. Spurious NVNT a 5240MHz Ant1 Emission

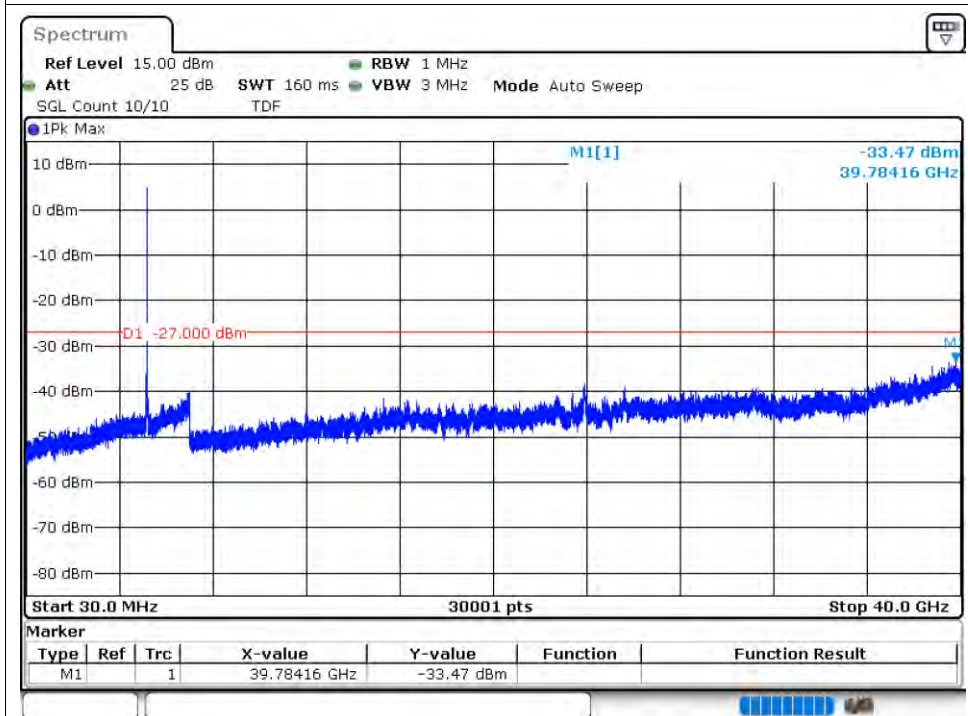


Tx. Spurious NVNT n20 5180MHz Ant1 Emission

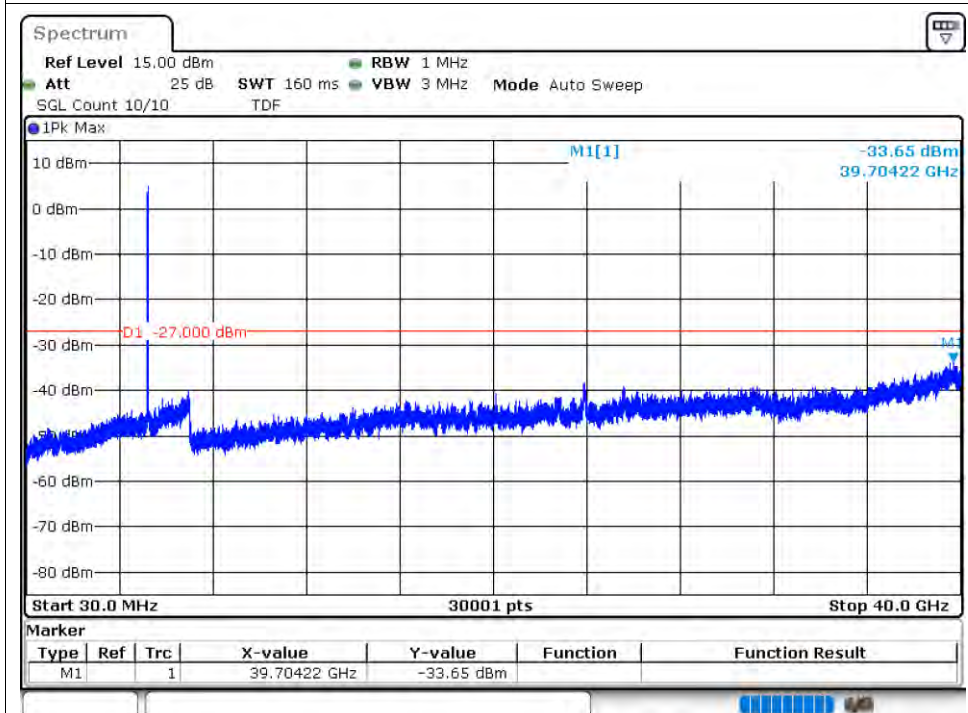


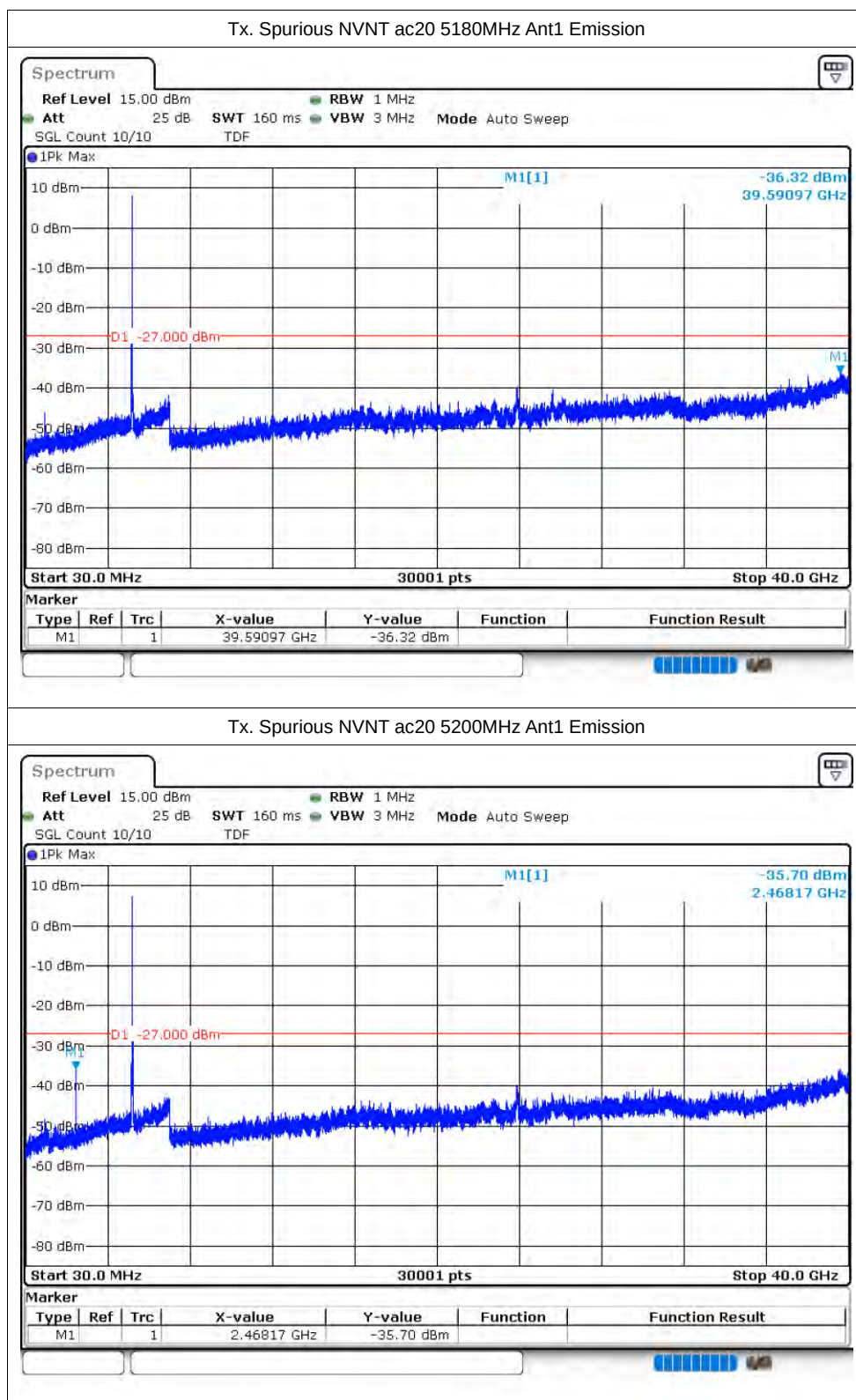


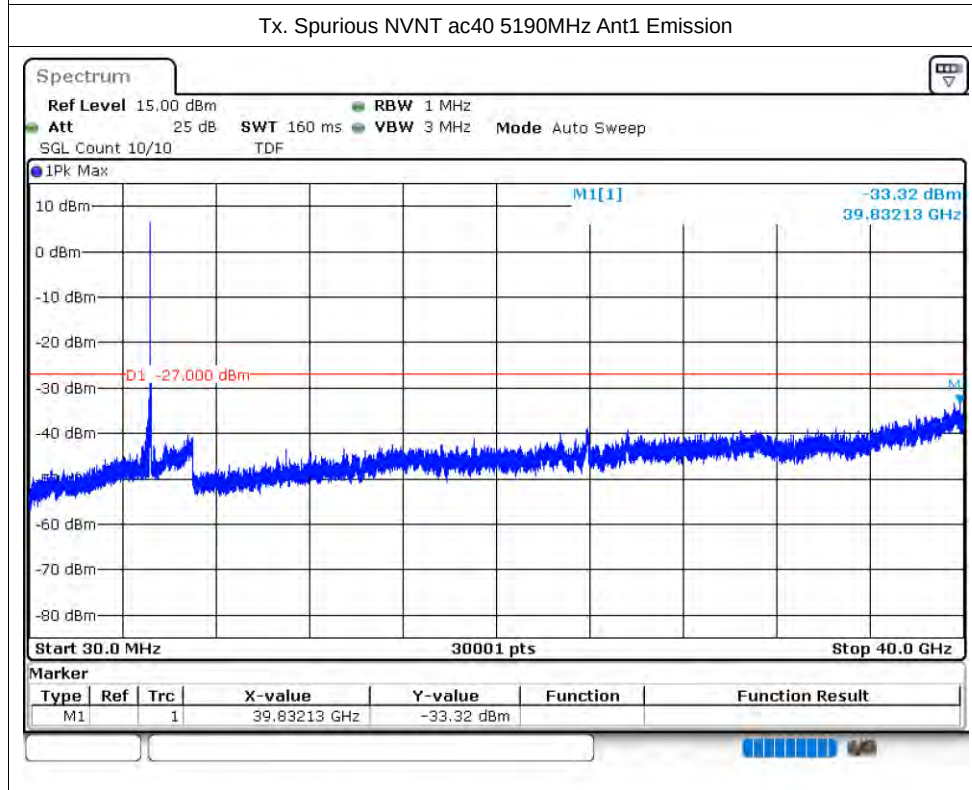
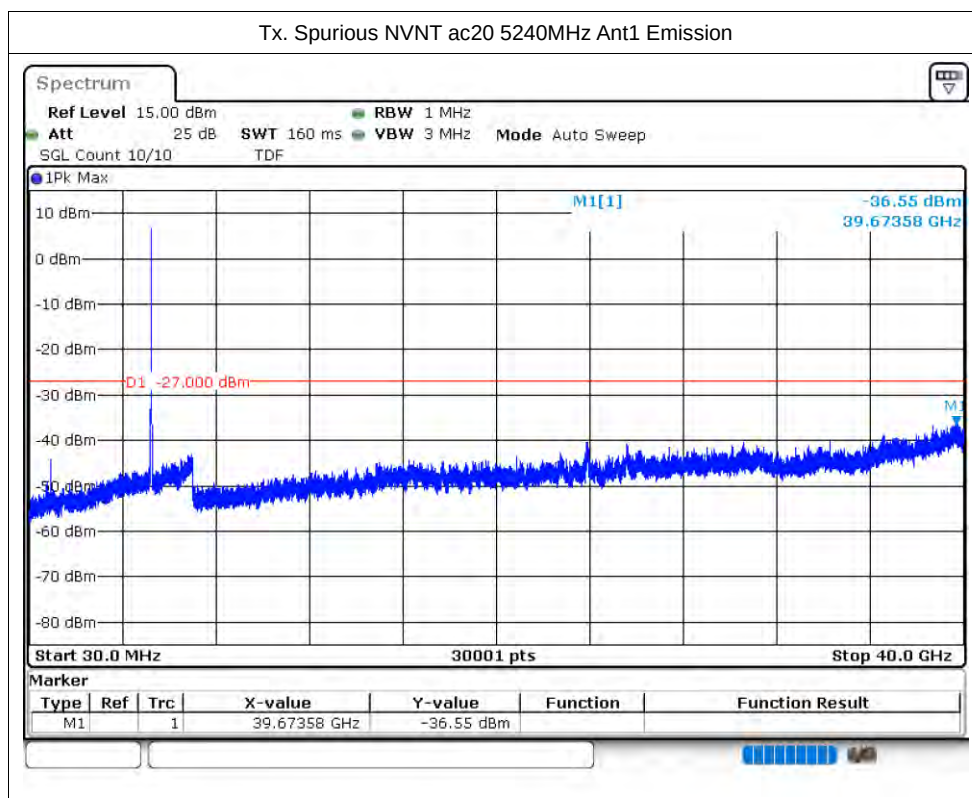
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



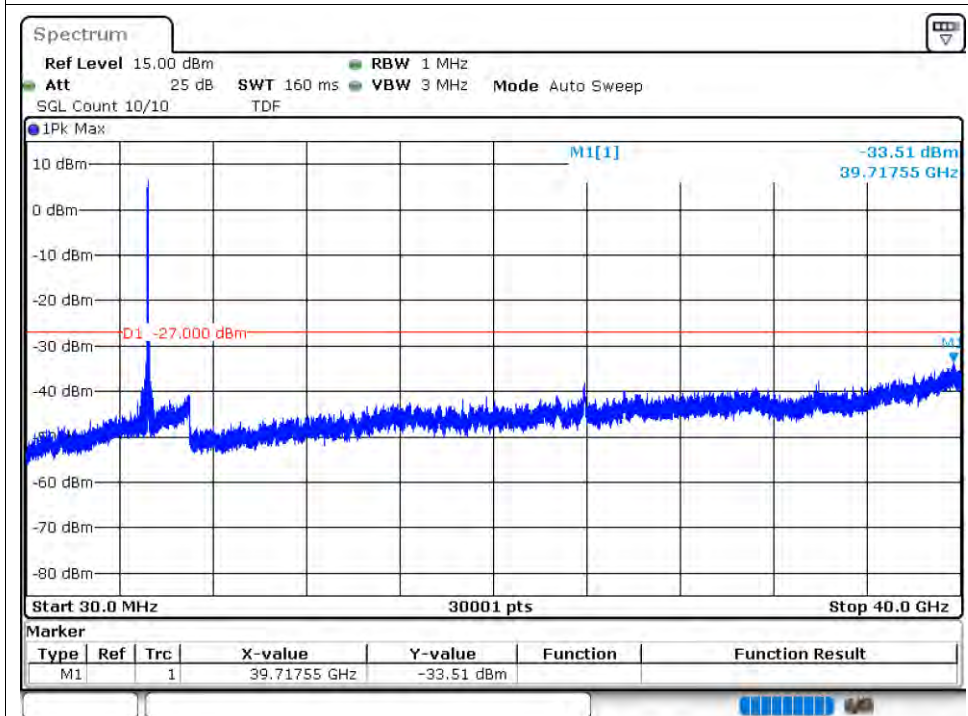
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



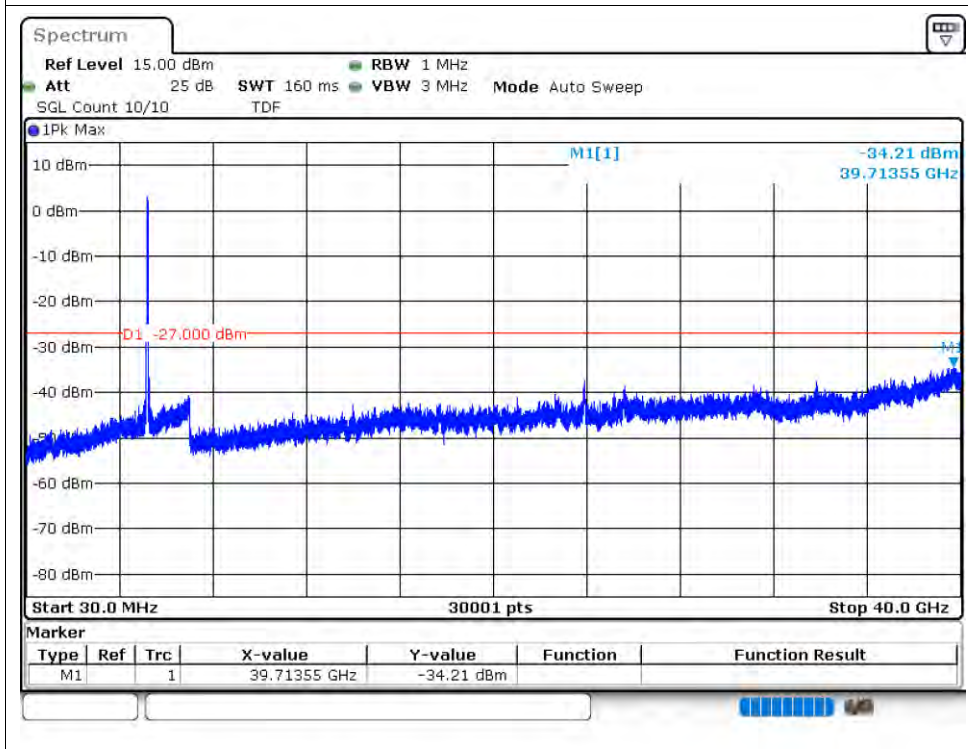




Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission

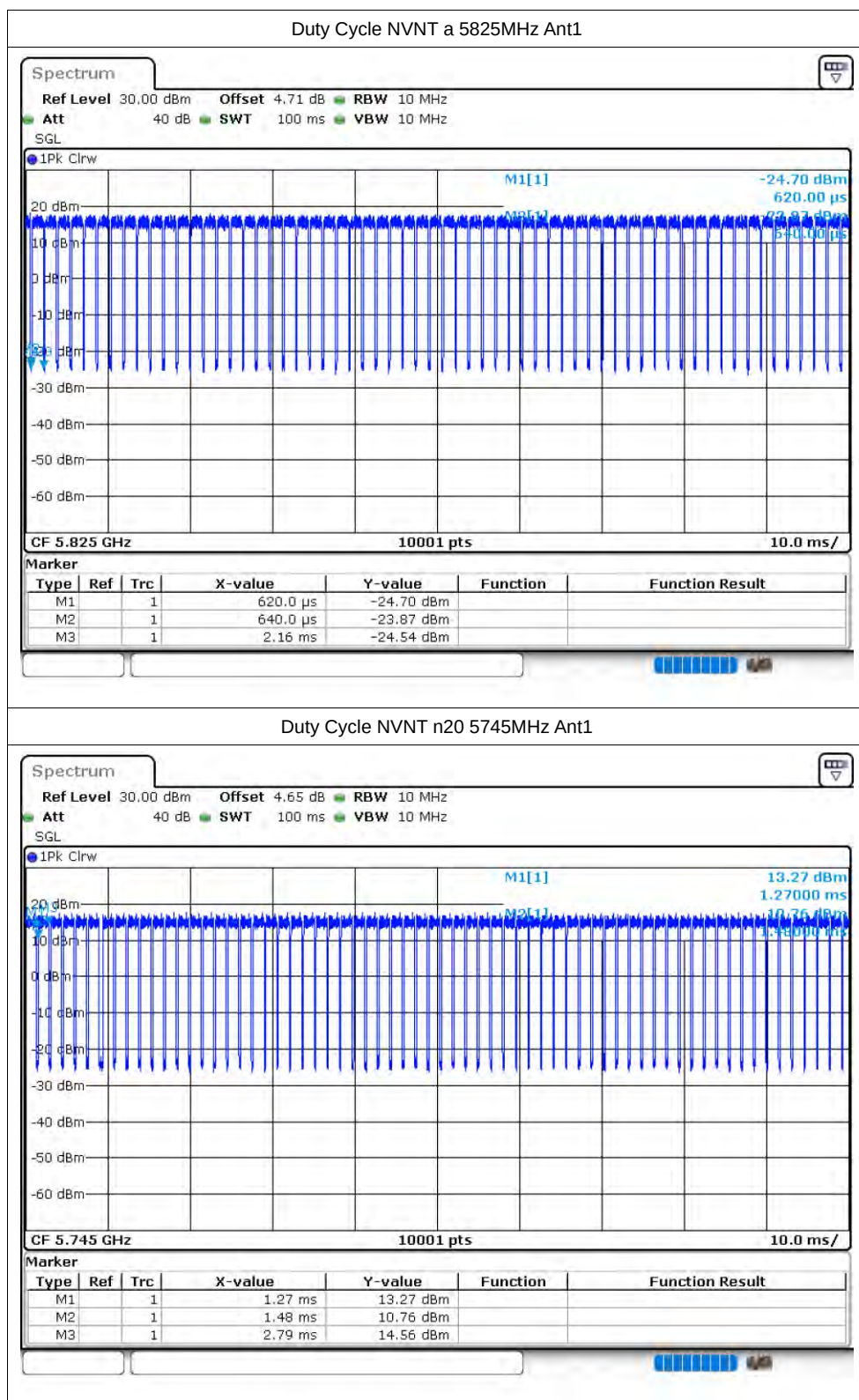


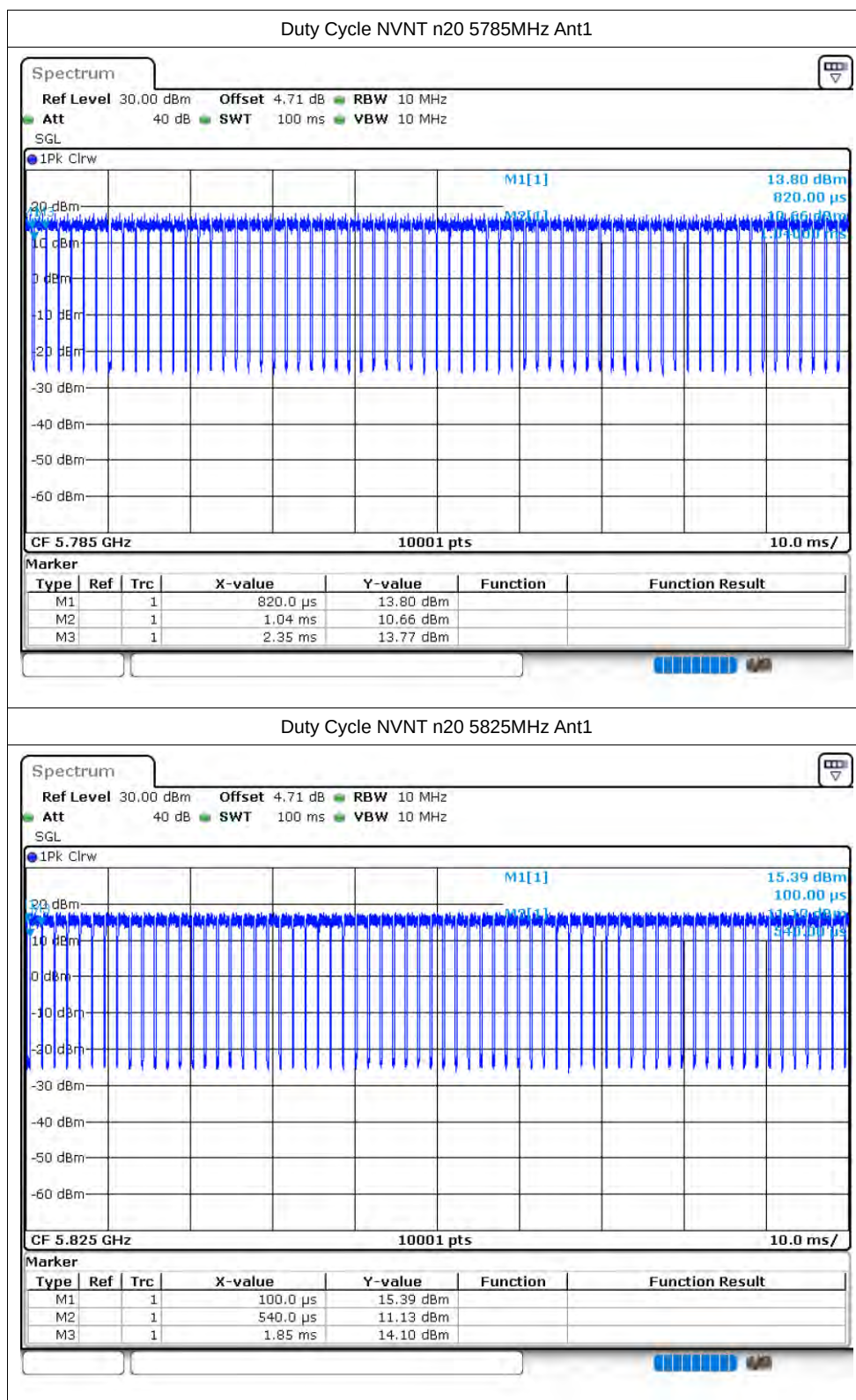
WIFI 5.8G

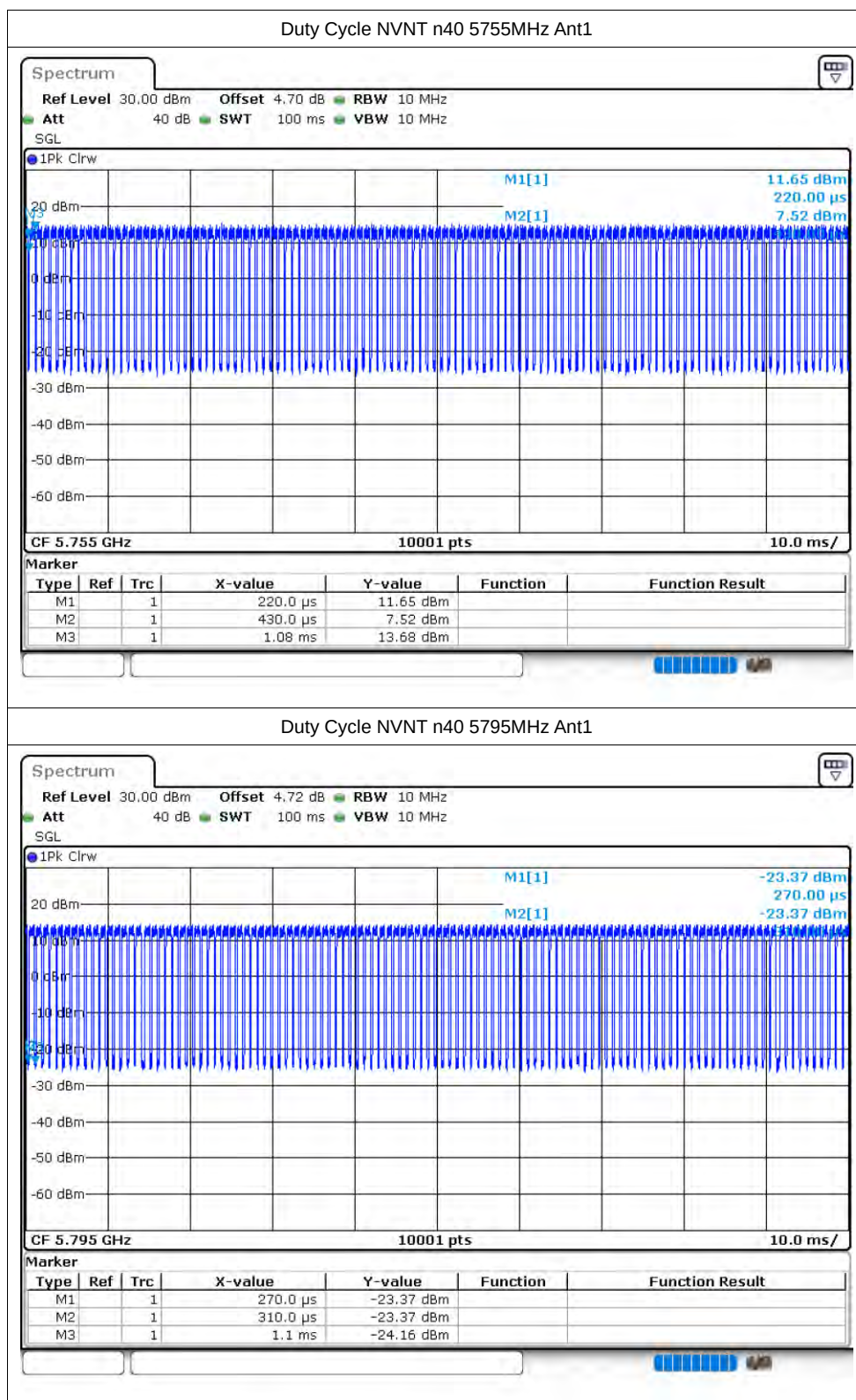
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	86.94	0.61	0.71
NVNT	a	5785	Ant1	87.17	0.6	0.71
NVNT	a	5825	Ant1	98.71	0.06	0.66
NVNT	n20	5745	Ant1	86.35	0.64	0.76
NVNT	n20	5785	Ant1	86.36	0.64	0.76
NVNT	n20	5825	Ant1	86.12	0.65	0.76
NVNT	n40	5755	Ant1	75.87	1.2	1.54
NVNT	n40	5795	Ant1	97.13	0.13	1.27
NVNT	ac20	5745	Ant1	86.33	0.64	0.76
NVNT	ac20	5785	Ant1	86.38	0.64	0.76
NVNT	ac20	5825	Ant1	86.35	0.64	0.76
NVNT	ac40	5755	Ant1	76.22	1.18	1.52
NVNT	ac40	5795	Ant1	75.95	1.19	1.54
NVNT	ac80	5775	Ant1	61.04	2.14	3.13



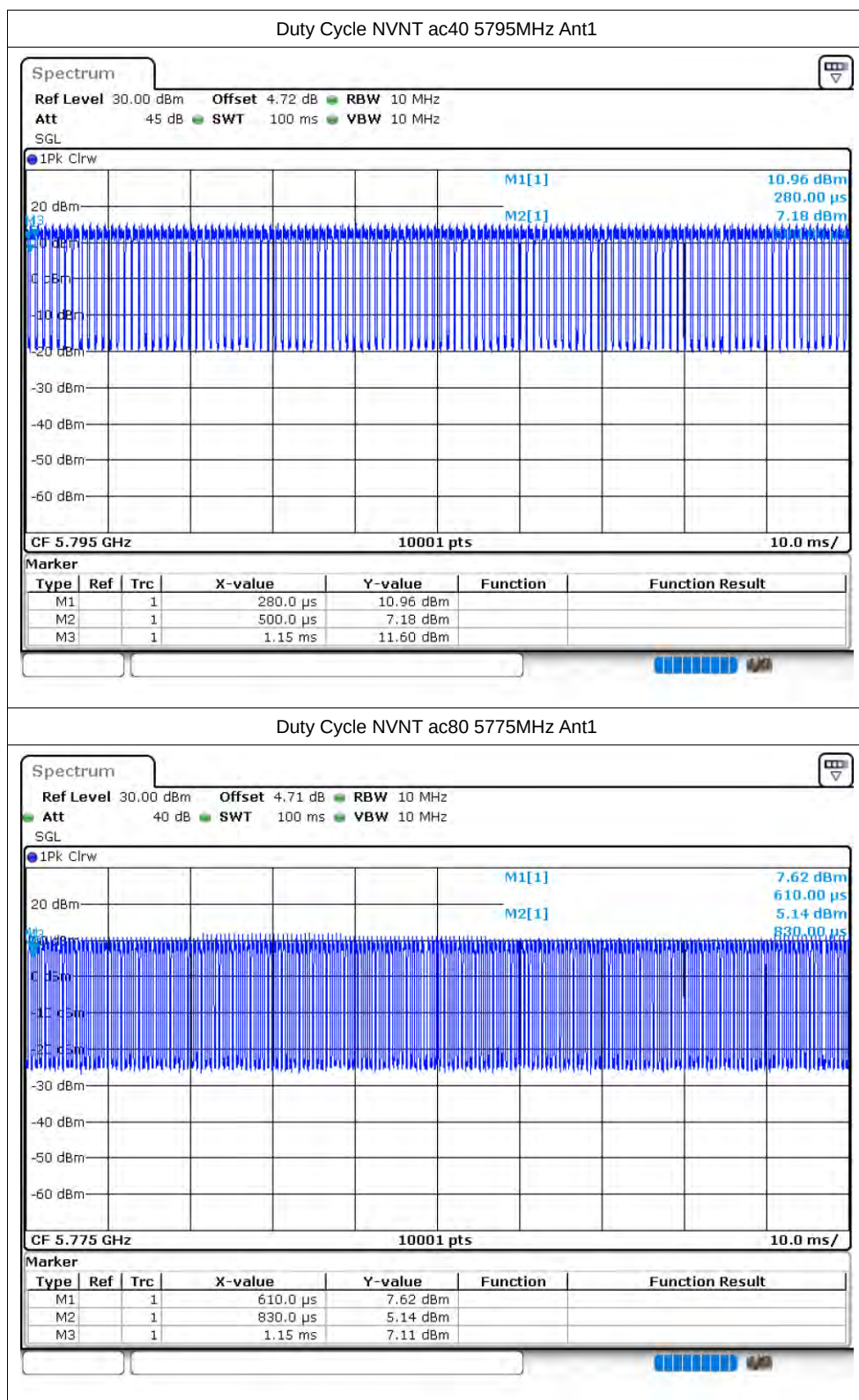












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	10.42	30	Pass
NVNT	a	5785	Ant1	10.14	30	Pass
NVNT	a	5825	Ant1	10.84	30	Pass
NVNT	n20	5745	Ant1	10.13	30	Pass
NVNT	n20	5785	Ant1	10.5	30	Pass
NVNT	n20	5825	Ant1	11	30	Pass
NVNT	n40	5755	Ant1	10.29	30	Pass
NVNT	n40	5795	Ant1	10.53	30	Pass
NVNT	ac20	5745	Ant1	10.3	30	Pass
NVNT	ac20	5785	Ant1	10.42	30	Pass
NVNT	ac20	5825	Ant1	11	30	Pass
NVNT	ac40	5755	Ant1	10.31	30	Pass
NVNT	ac40	5795	Ant1	10.55	30	Pass
NVNT	ac80	5775	Ant1	10.34	30	Pass

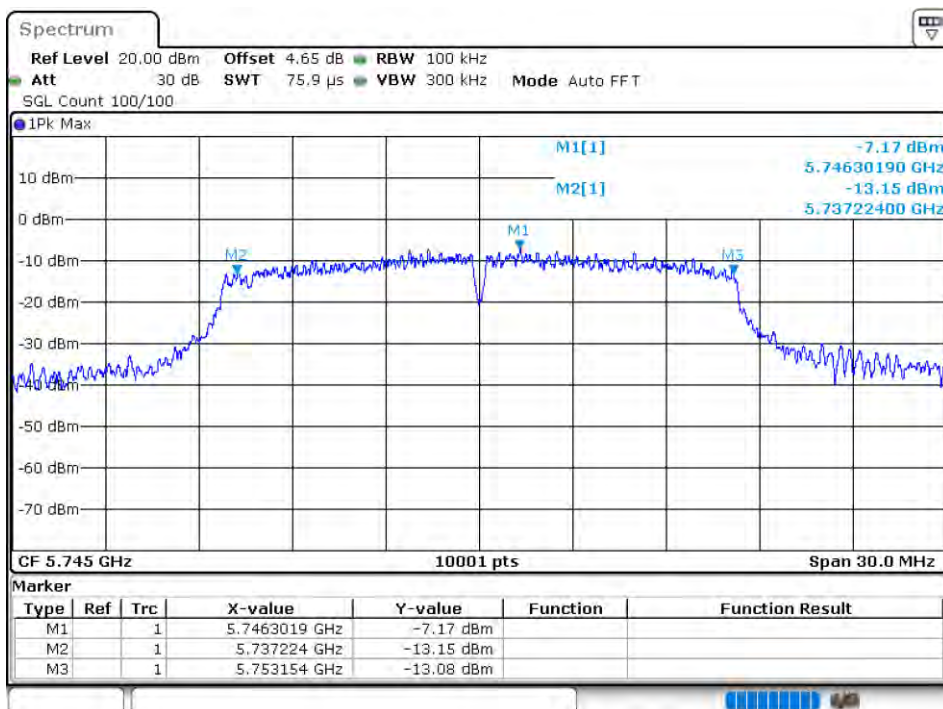
Note: The Duty Cycle factor has already been included.

-6dB Bandwidth

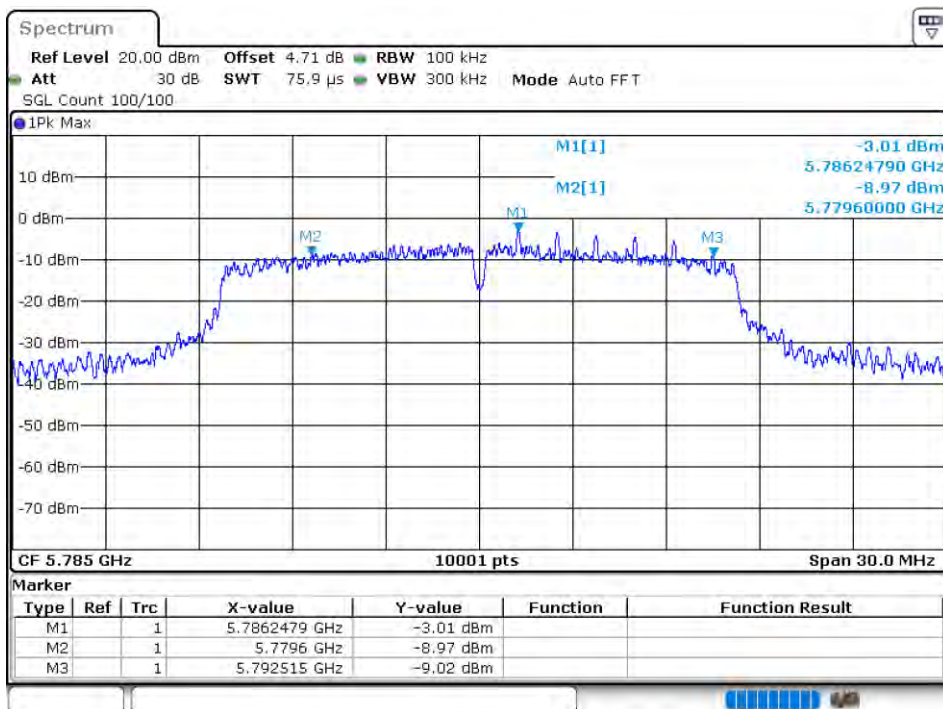
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.93	0.5	Pass
NVNT	a	5785	Ant1	12.915	0.5	Pass
NVNT	a	5825	Ant1	16.332	0.5	Pass
NVNT	n20	5745	Ant1	17.154	0.5	Pass
NVNT	n20	5785	Ant1	15.951	0.5	Pass
NVNT	n20	5825	Ant1	17.298	0.5	Pass
NVNT	n40	5755	Ant1	30.084	0.5	Pass
NVNT	n40	5795	Ant1	33.834	0.5	Pass
NVNT	ac20	5745	Ant1	16.668	0.5	Pass
NVNT	ac20	5785	Ant1	17.565	0.5	Pass
NVNT	ac20	5825	Ant1	13.131	0.5	Pass
NVNT	ac40	5755	Ant1	35.094	0.5	Pass
NVNT	ac40	5795	Ant1	30.042	0.5	Pass
NVNT	ac80	5775	Ant1	62.604	0.5	Pass

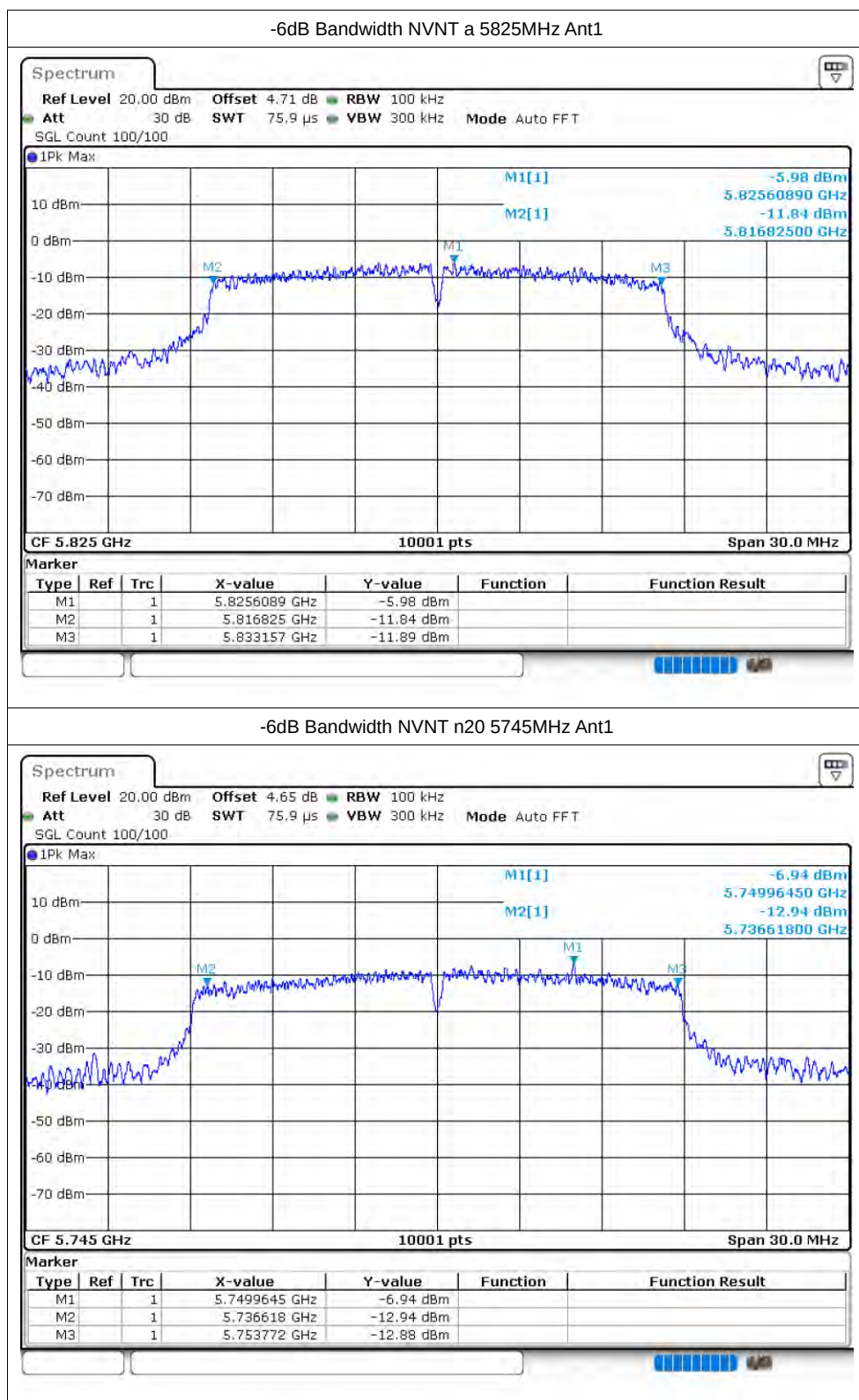
Test Graphs

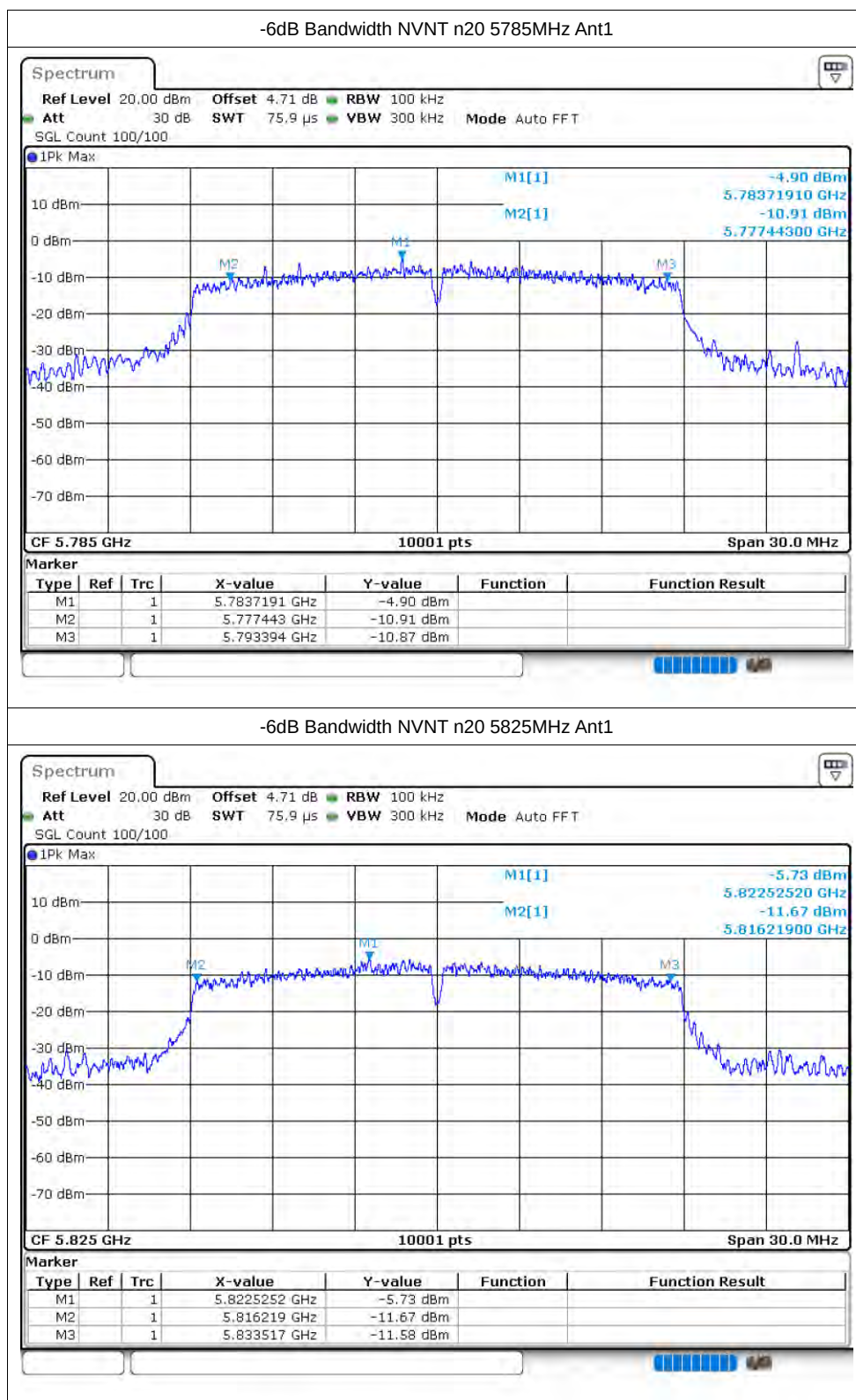
-6dB Bandwidth NVNT a 5745MHz Ant1

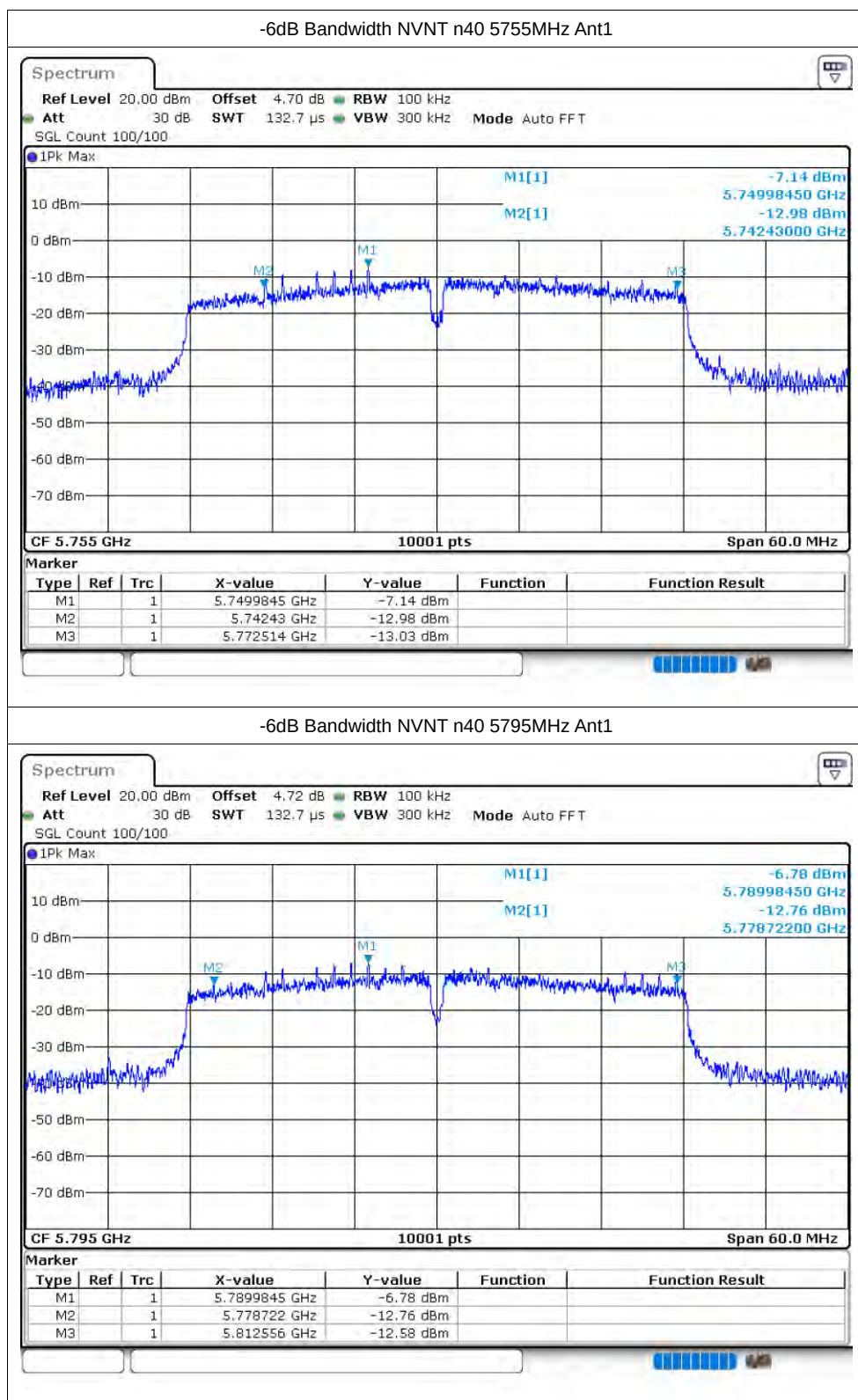


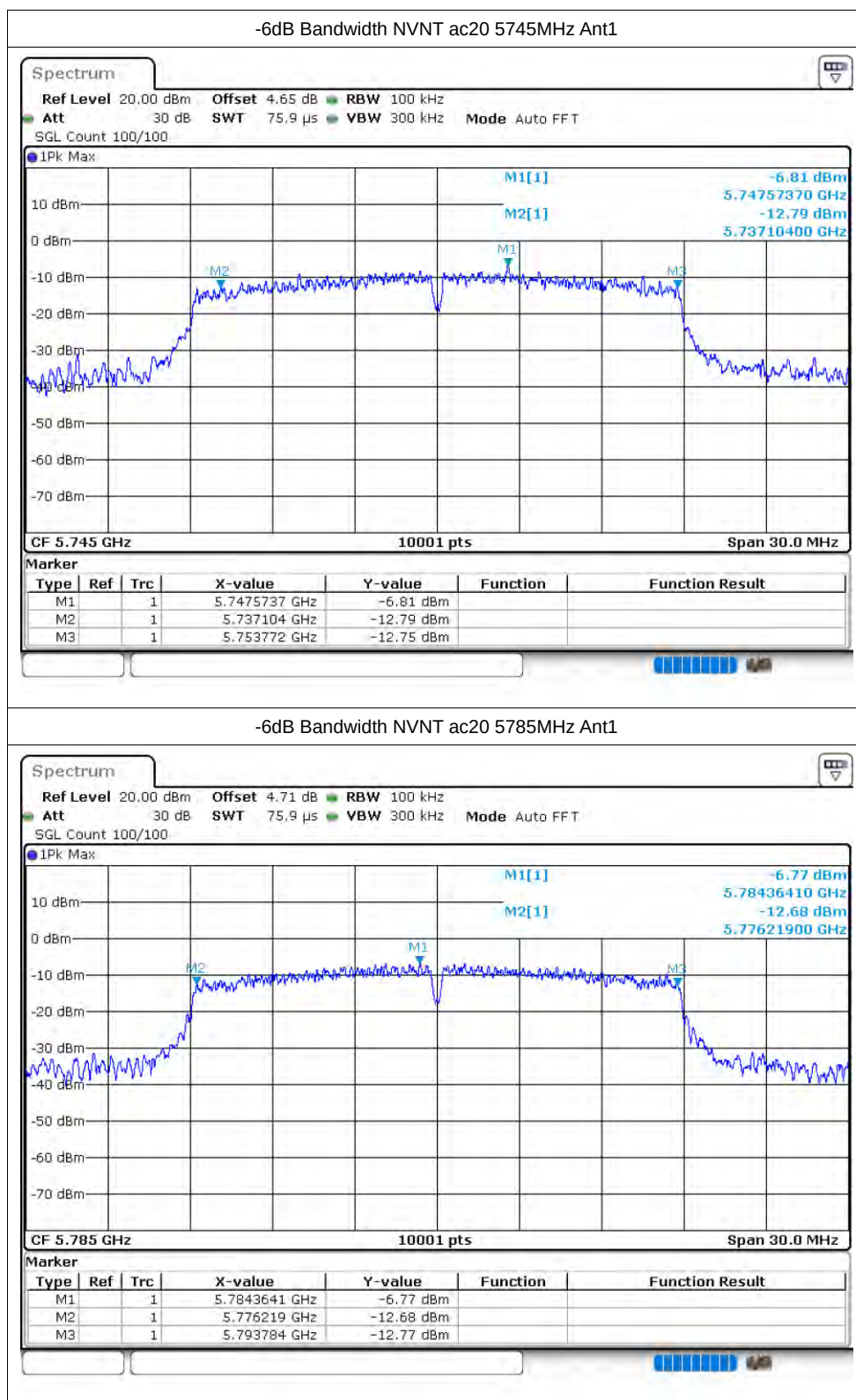
-6dB Bandwidth NVNT a 5785MHz Ant1

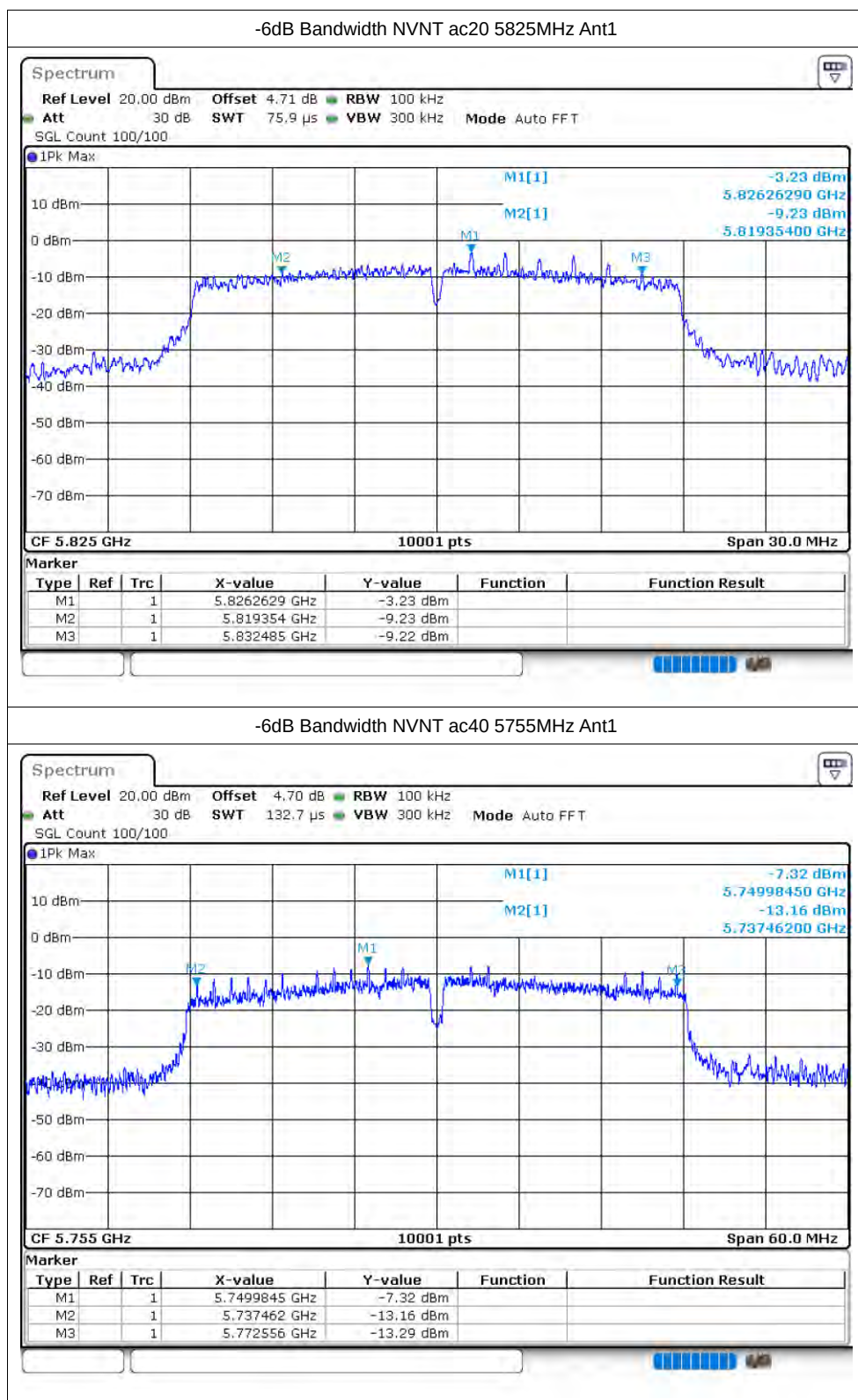


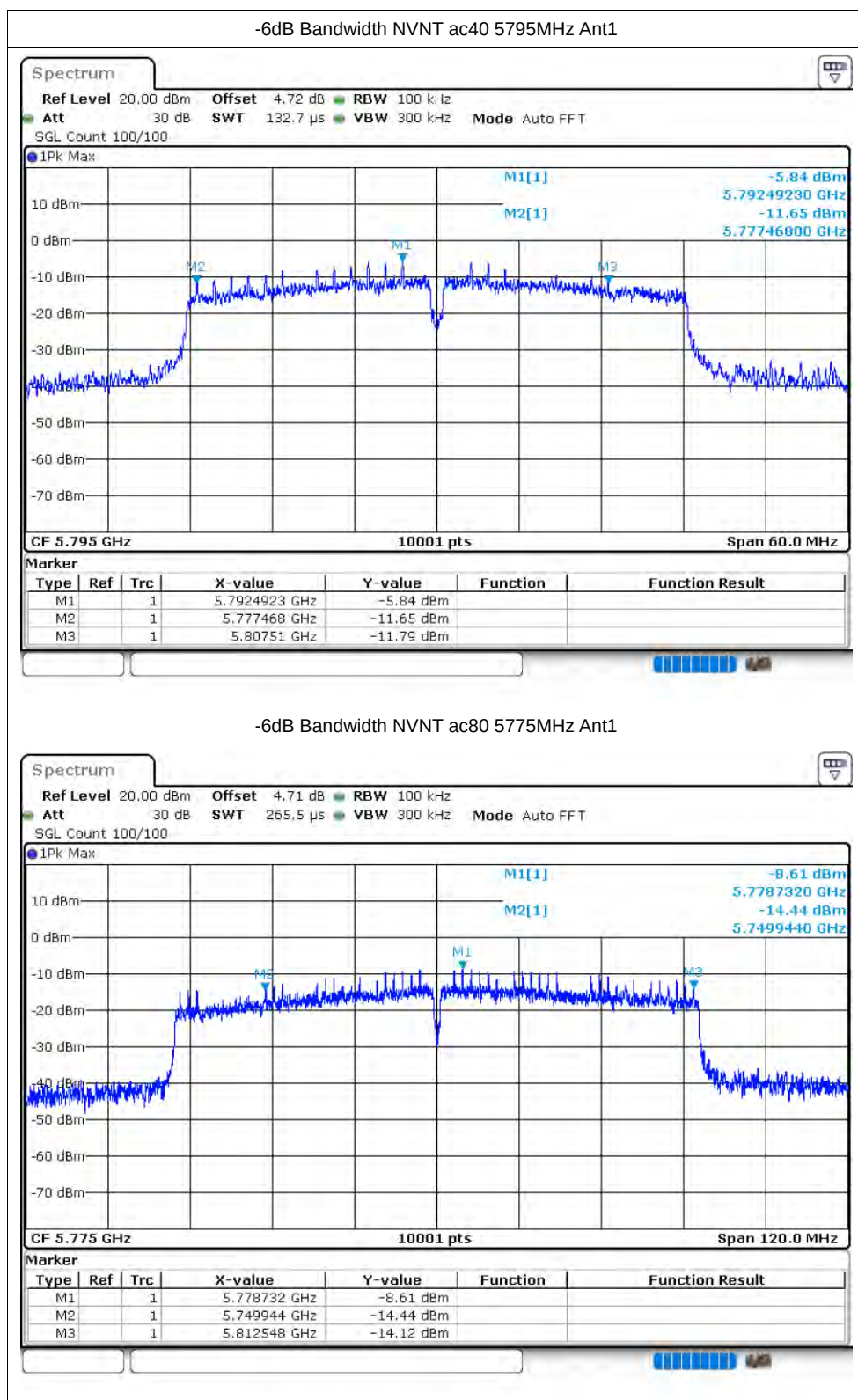










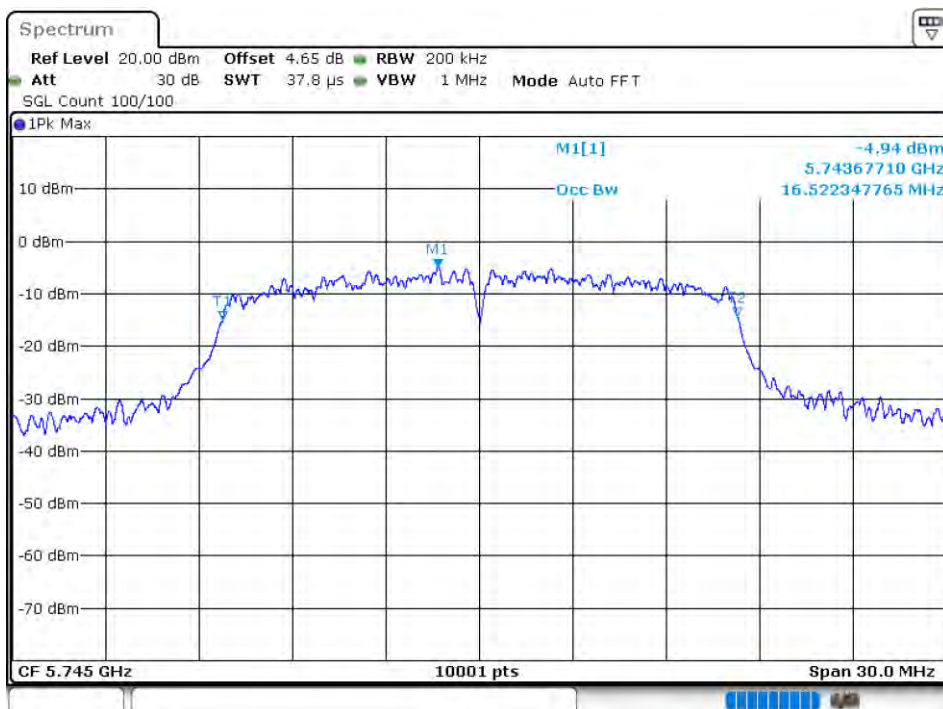


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.522
NVNT	a	5785	Ant1	16.492
NVNT	a	5825	Ant1	16.561
NVNT	n20	5745	Ant1	17.617
NVNT	n20	5785	Ant1	17.662
NVNT	n20	5825	Ant1	17.671
NVNT	n40	5755	Ant1	36.308
NVNT	n40	5795	Ant1	36.254
NVNT	ac20	5745	Ant1	17.674
NVNT	ac20	5785	Ant1	17.599
NVNT	ac20	5825	Ant1	17.635
NVNT	ac40	5755	Ant1	36.2
NVNT	ac40	5795	Ant1	36.206
NVNT	ac80	5775	Ant1	75.28

Test Graphs

OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1

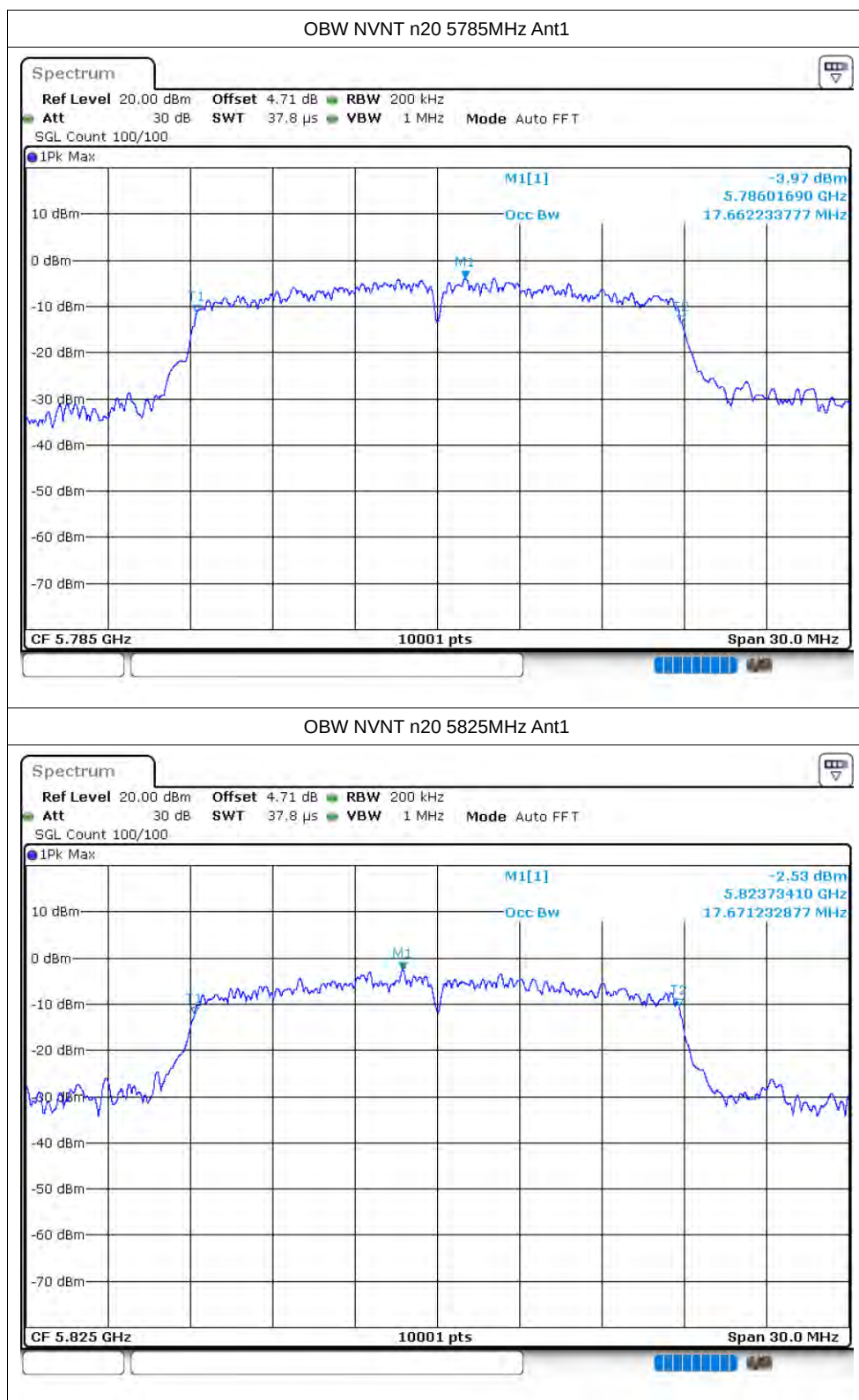


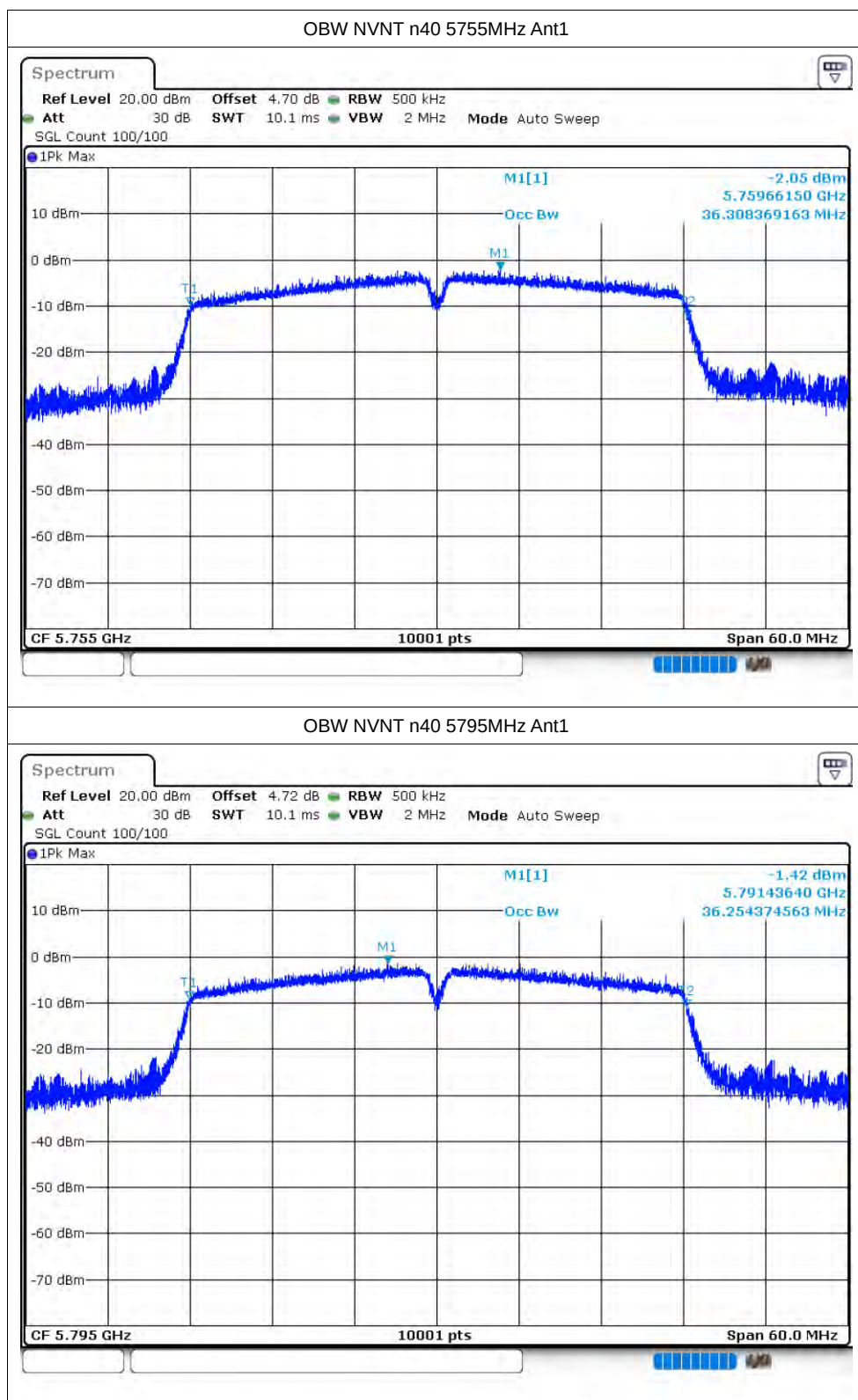
OBW NVNT a 5825MHz Ant1

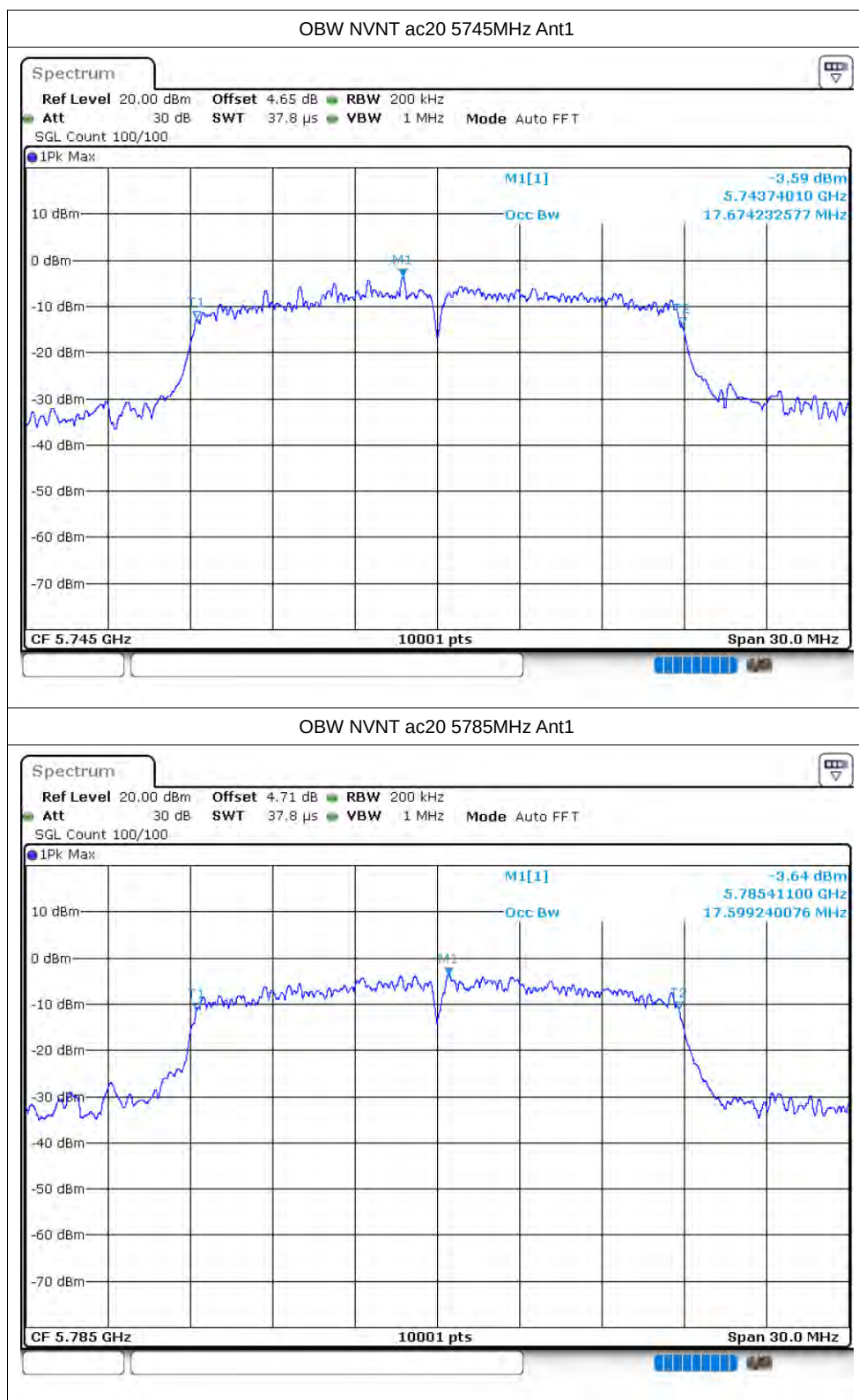


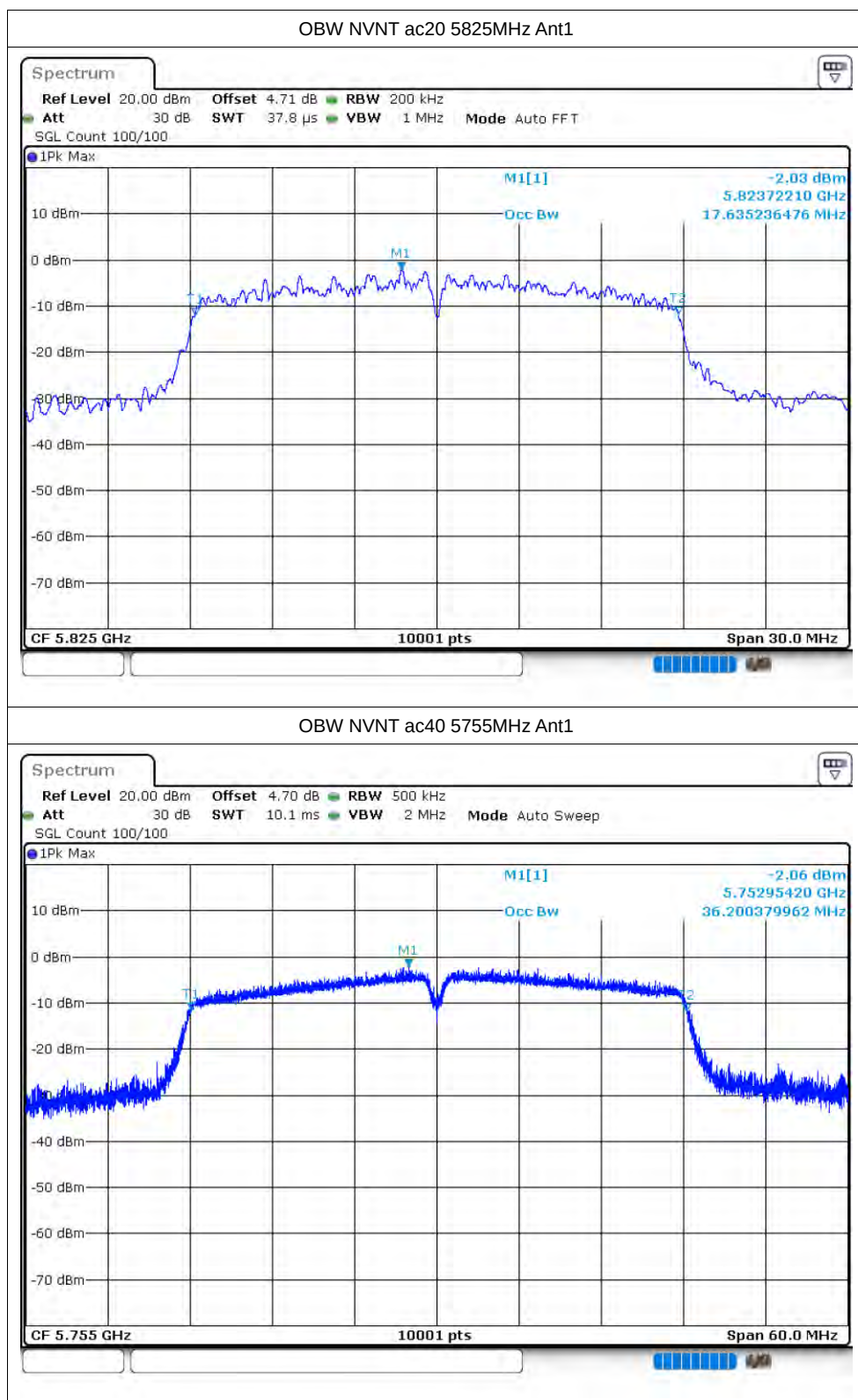
OBW NVNT n20 5745MHz Ant1

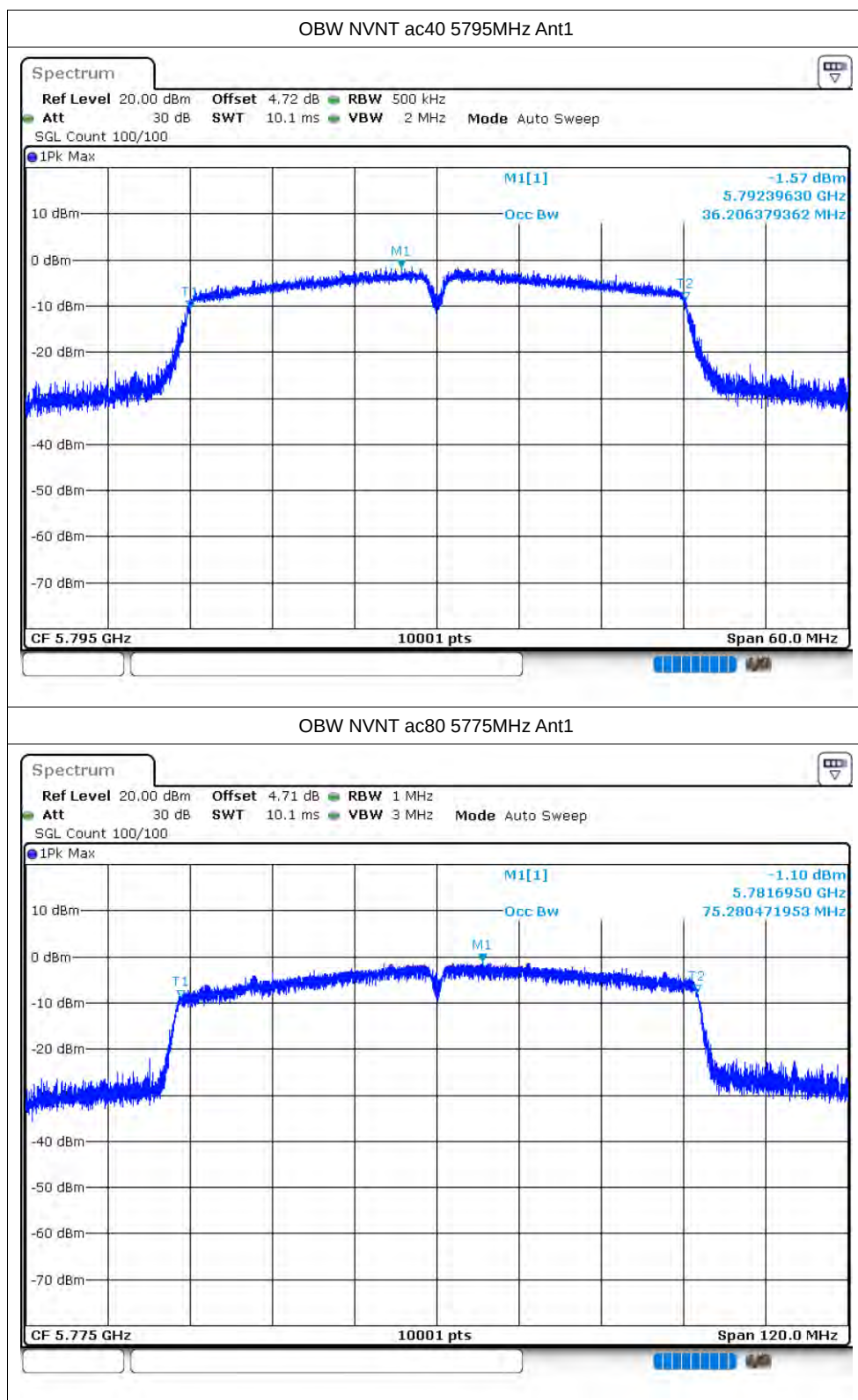










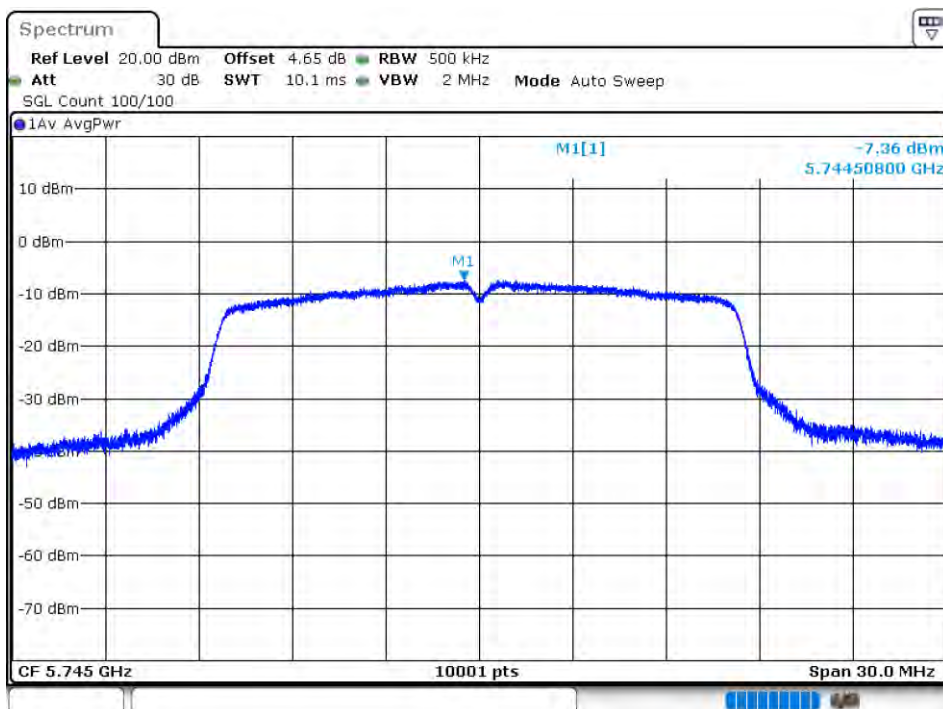


Maximum Power Spectral Density Level

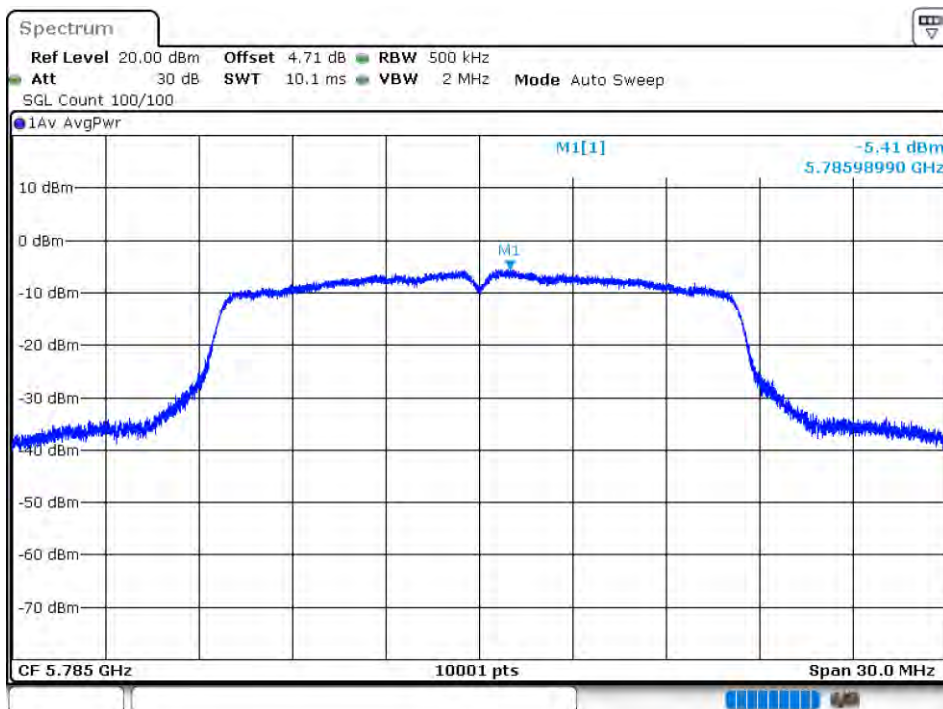
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-7.36	0.34	-7.02	30	Pass
NVNT	a	5785	Ant1	-5.41	0.34	-5.07	30	Pass
NVNT	a	5825	Ant1	-5.25	0.05	-5.2	30	Pass
NVNT	n20	5745	Ant1	-7.71	0.37	-7.34	30	Pass
NVNT	n20	5785	Ant1	-5.93	0.37	-5.56	30	Pass
NVNT	n20	5825	Ant1	-5.95	0.36	-5.59	30	Pass
NVNT	n40	5755	Ant1	-10.03	0.7	-9.33	30	Pass
NVNT	n40	5795	Ant1	-9.54	0.1	-9.44	30	Pass
NVNT	ac20	5745	Ant1	-7.89	0.36	-7.53	30	Pass
NVNT	ac20	5785	Ant1	-6.08	0.37	-5.71	30	Pass
NVNT	ac20	5825	Ant1	-6.47	0.37	-6.1	30	Pass
NVNT	ac40	5755	Ant1	-10.07	0.69	-9.38	30	Pass
NVNT	ac40	5795	Ant1	-9.64	0.69	-8.95	30	Pass
NVNT	ac80	5775	Ant1	-12.8	1.27	-11.53	30	Pass

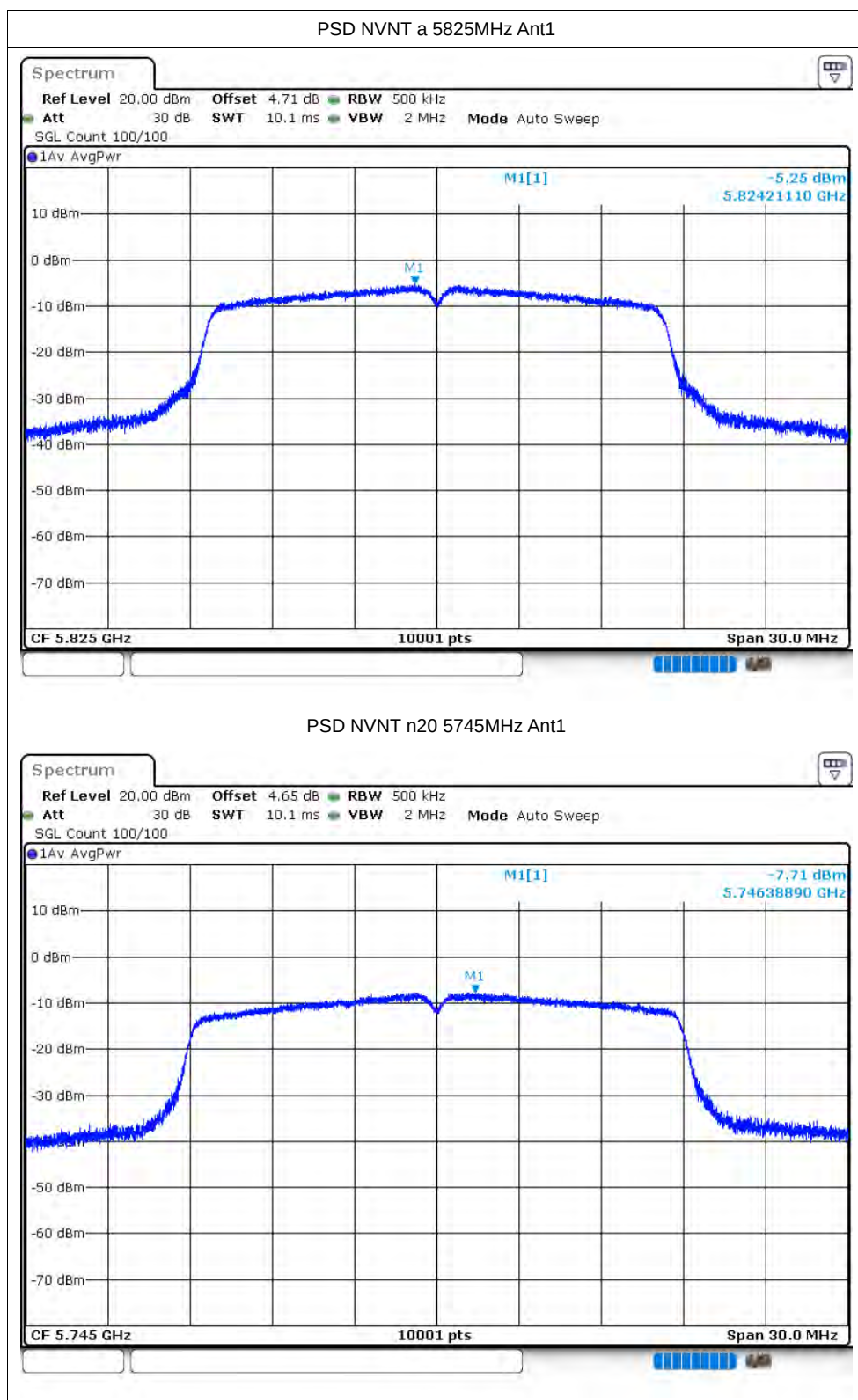
Test Graphs

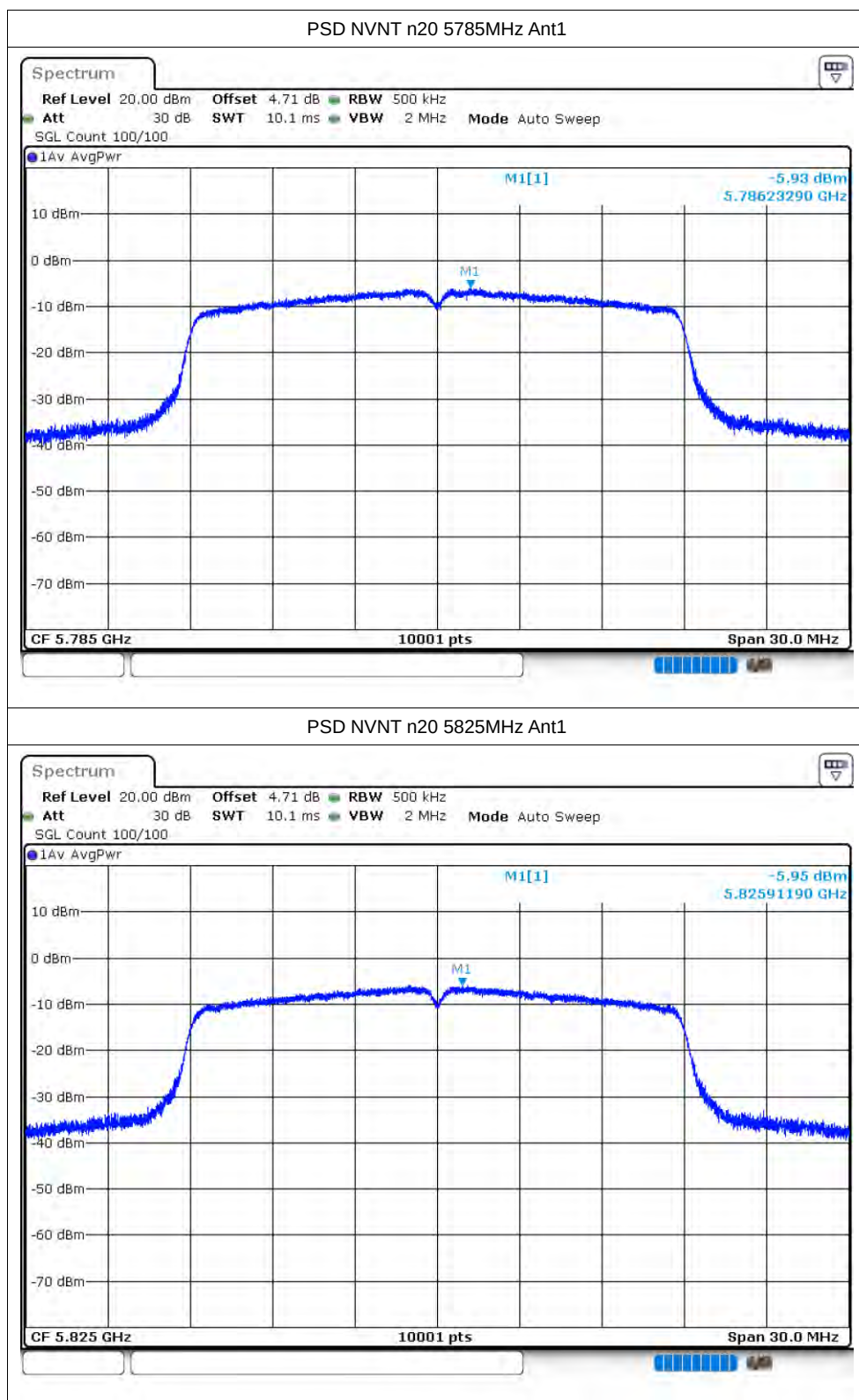
PSD NVNT a 5745MHz Ant1

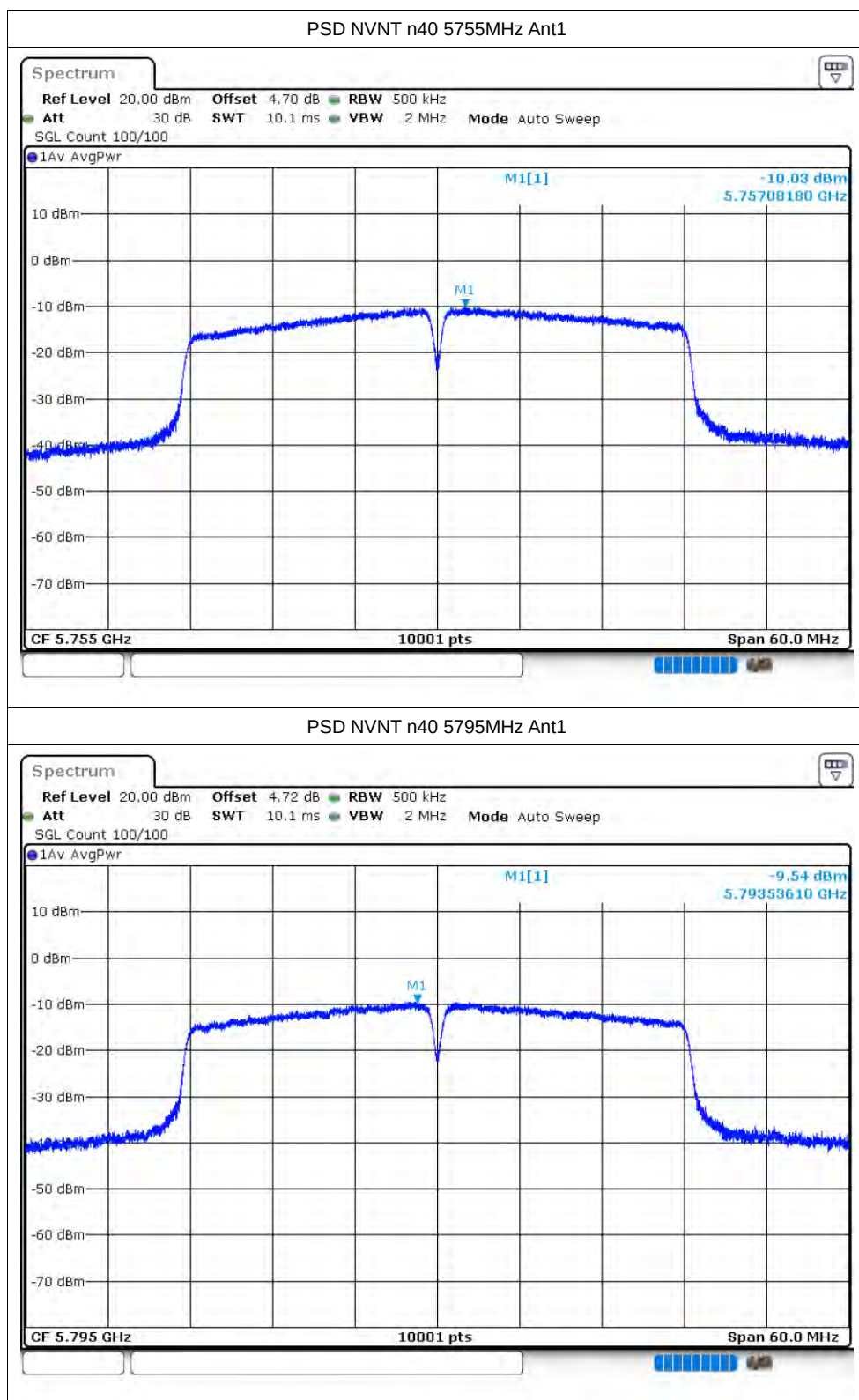


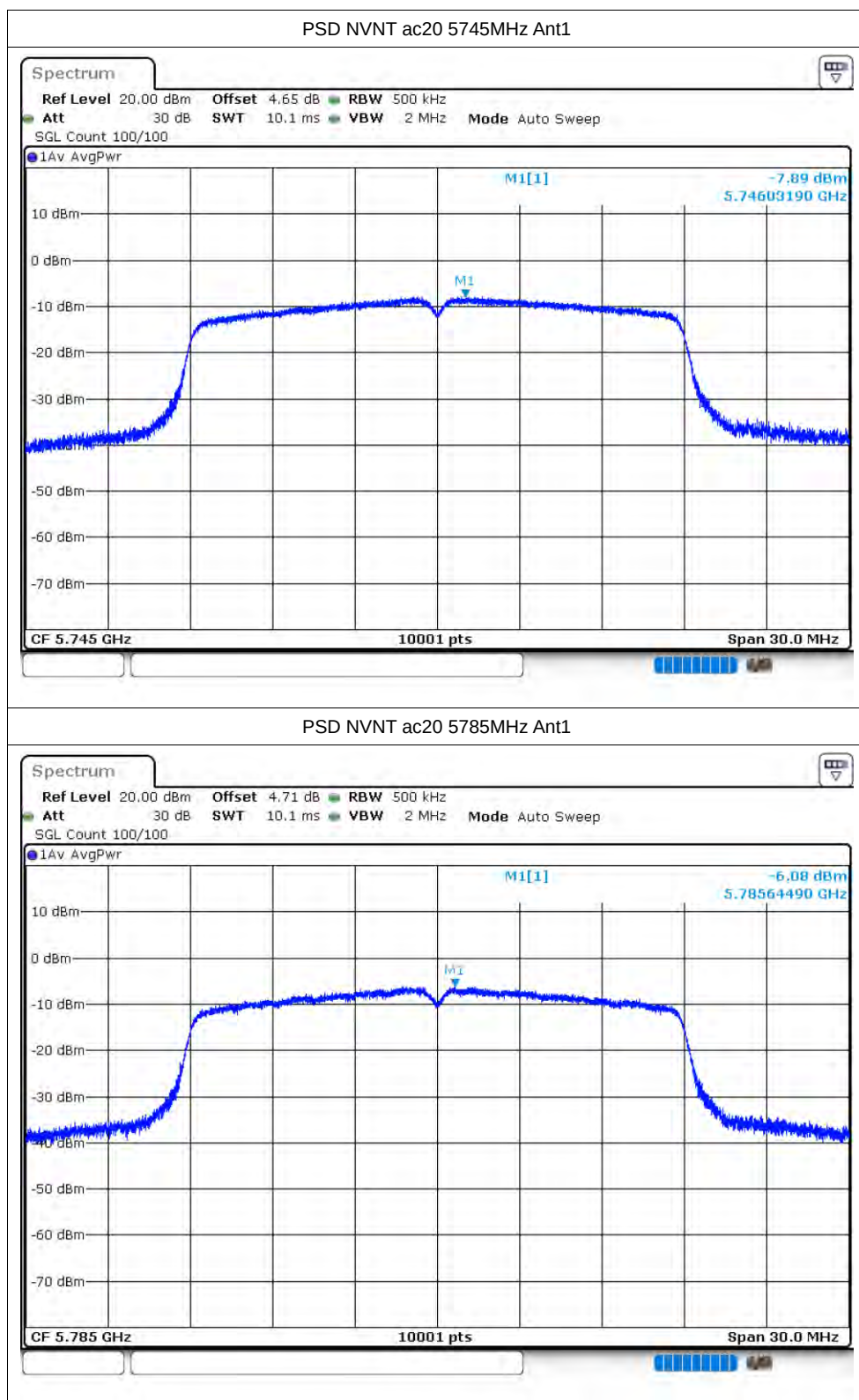
PSD NVNT a 5785MHz Ant1

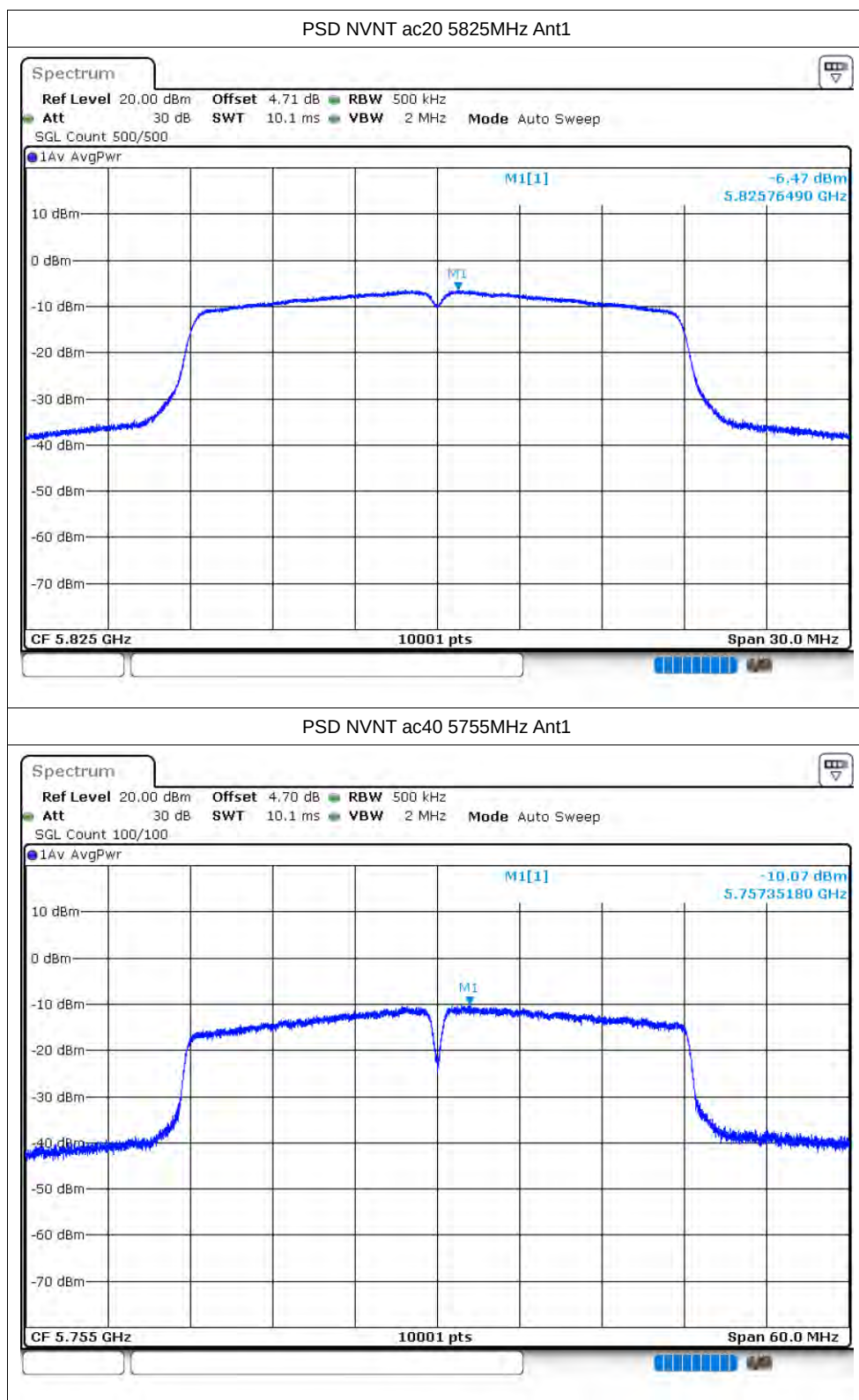


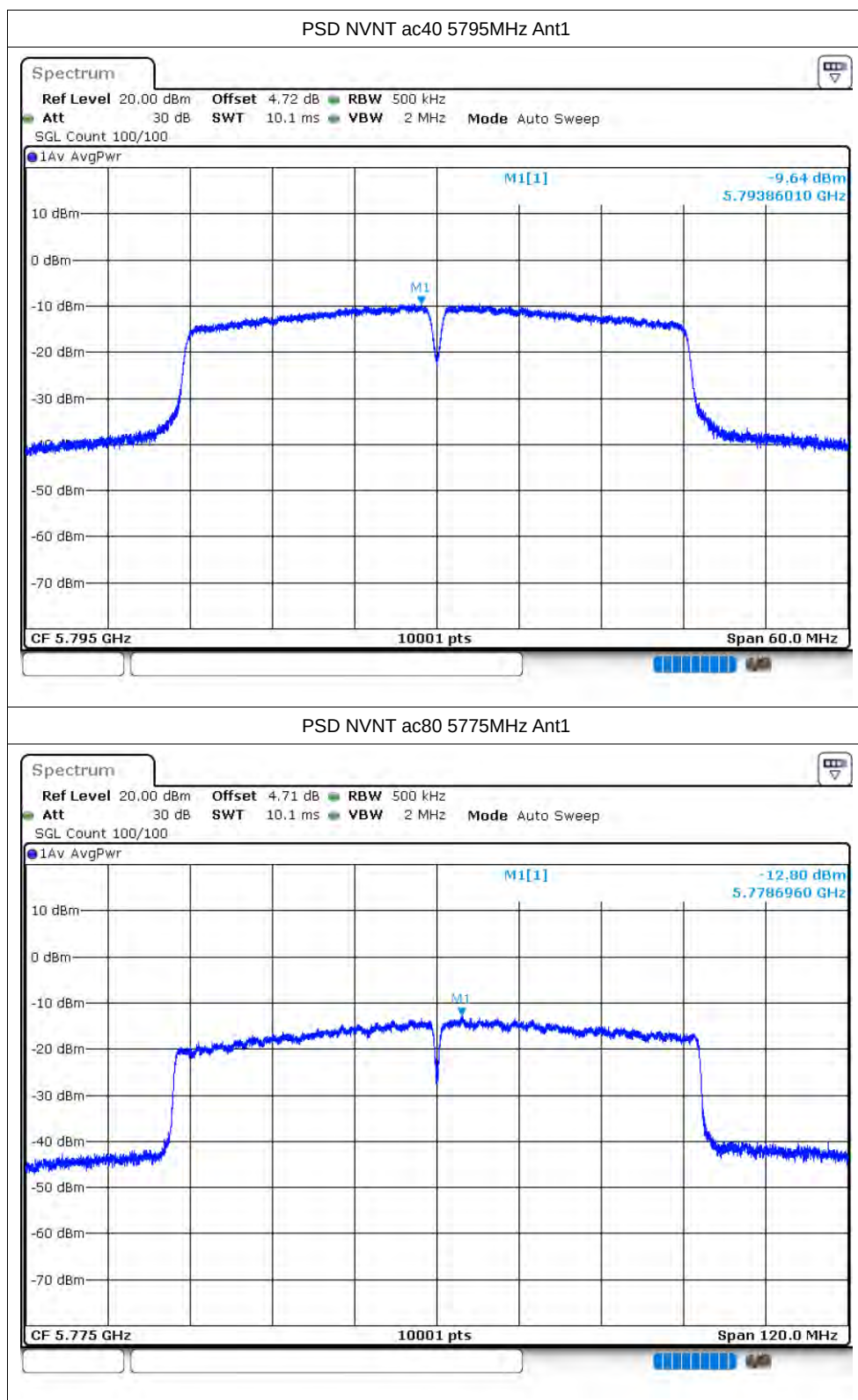










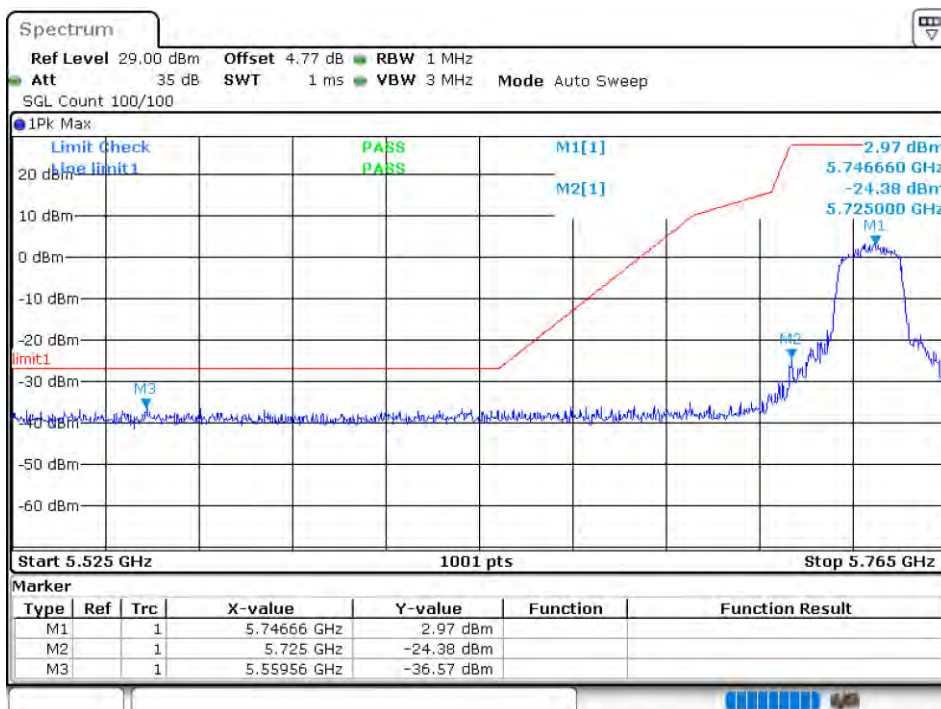


Band Edge

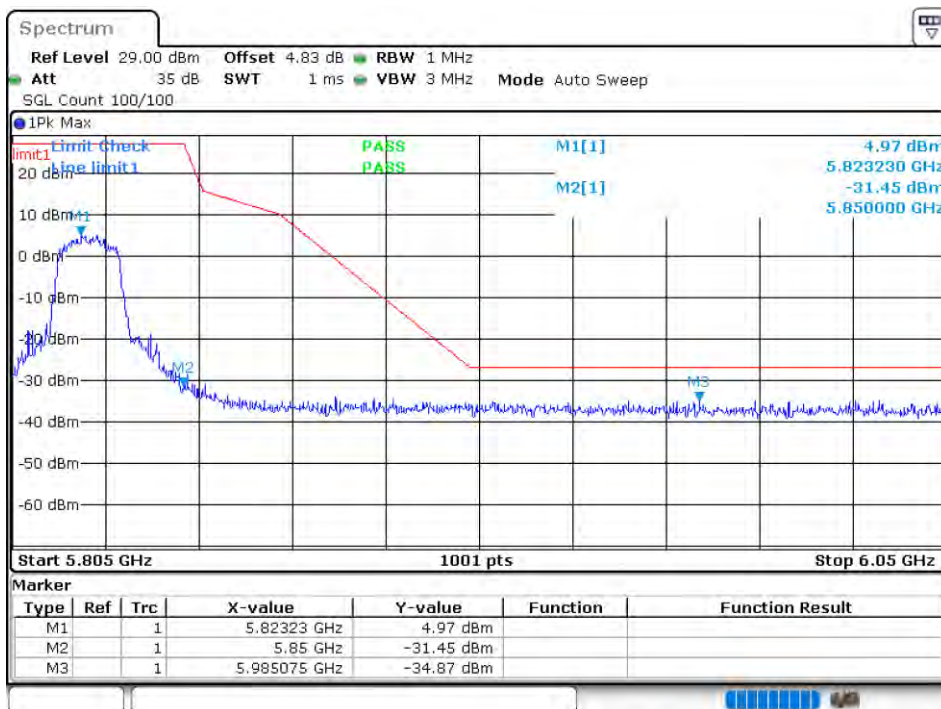
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-36.56	-27	Pass
NVNT	a	5825	Ant1	-34.86	-27	Pass
NVNT	n20	5745	Ant1	-36.1	-27	Pass
NVNT	n20	5825	Ant1	-34.61	-27	Pass
NVNT	n40	5755	Ant1	-36.08	-27	Pass
NVNT	n40	5795	Ant1	-34.67	-27	Pass
NVNT	ac20	5745	Ant1	-35.92	-27	Pass
NVNT	ac20	5825	Ant1	-33.61	-27	Pass
NVNT	ac40	5755	Ant1	-36.48	-27	Pass
NVNT	ac40	5795	Ant1	-34.38	-27	Pass
NVNT	ac80	5755	Ant1	-33.84	-27	Pass
NVNT	ac80	5755	Ant1	-35.82	-27	Pass

Test Graphs

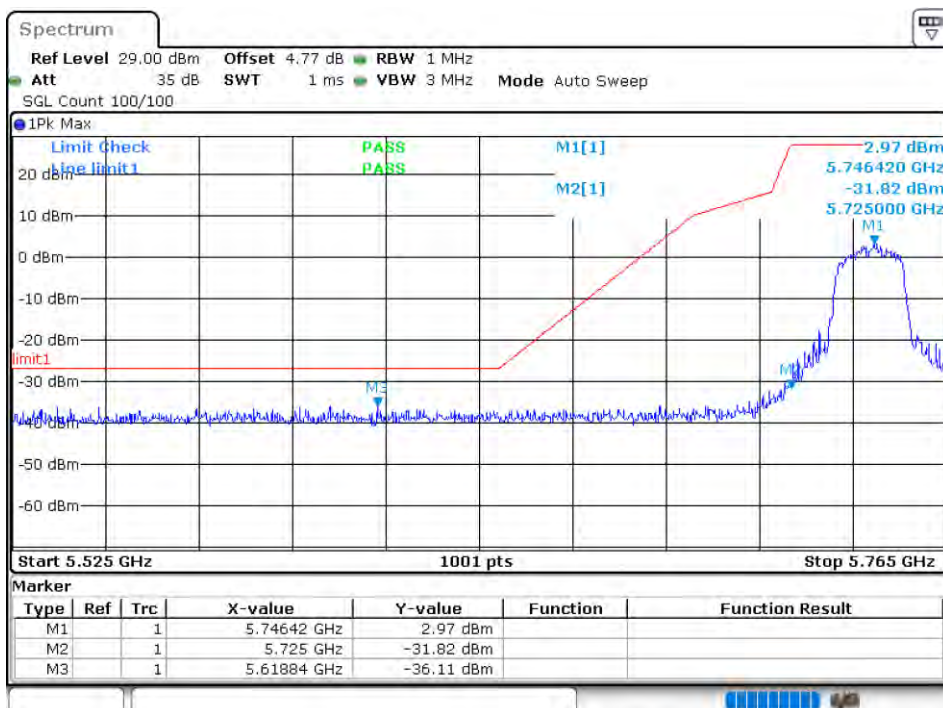
Band Edge NVNT a 5745MHz Low Ant1



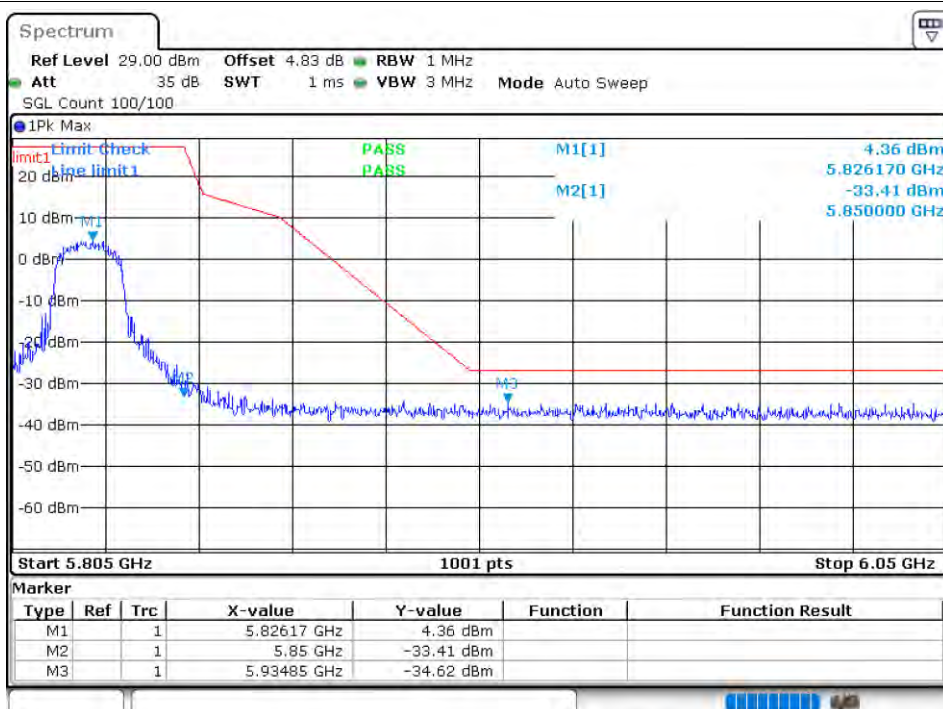
Band Edge NVNT a 5825MHz High Ant1



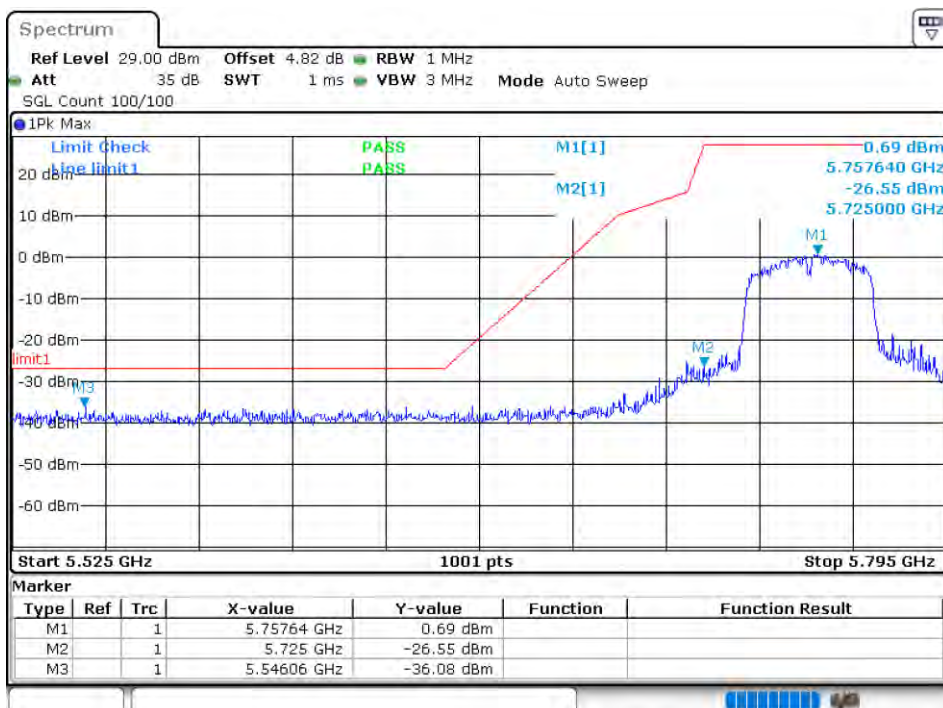
Band Edge NVNT n20 5745MHz Low Ant1



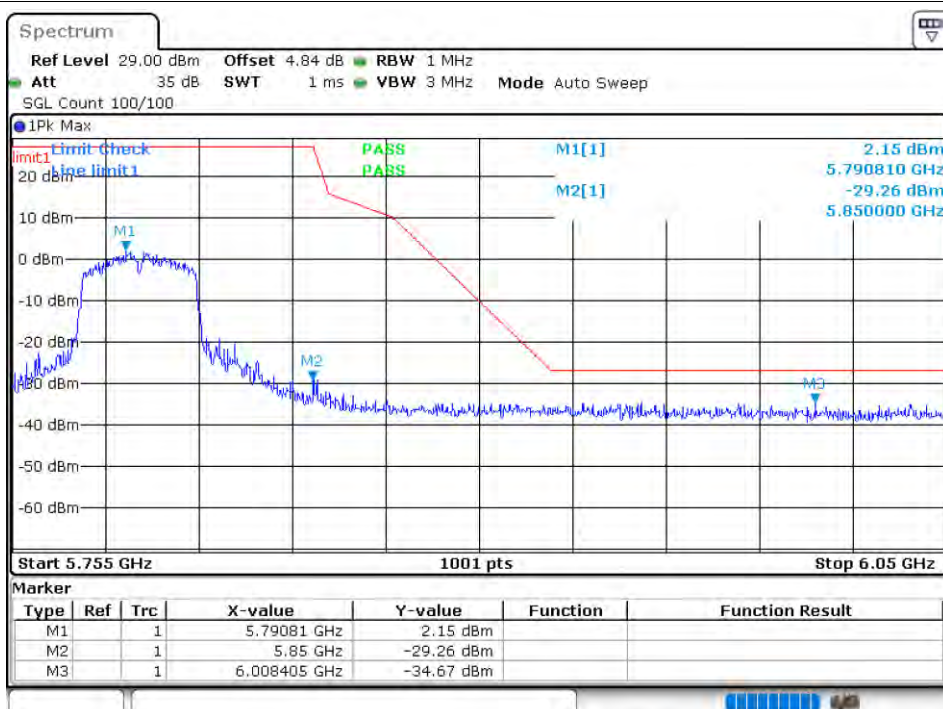
Band Edge NVNT n20 5825MHz High Ant1

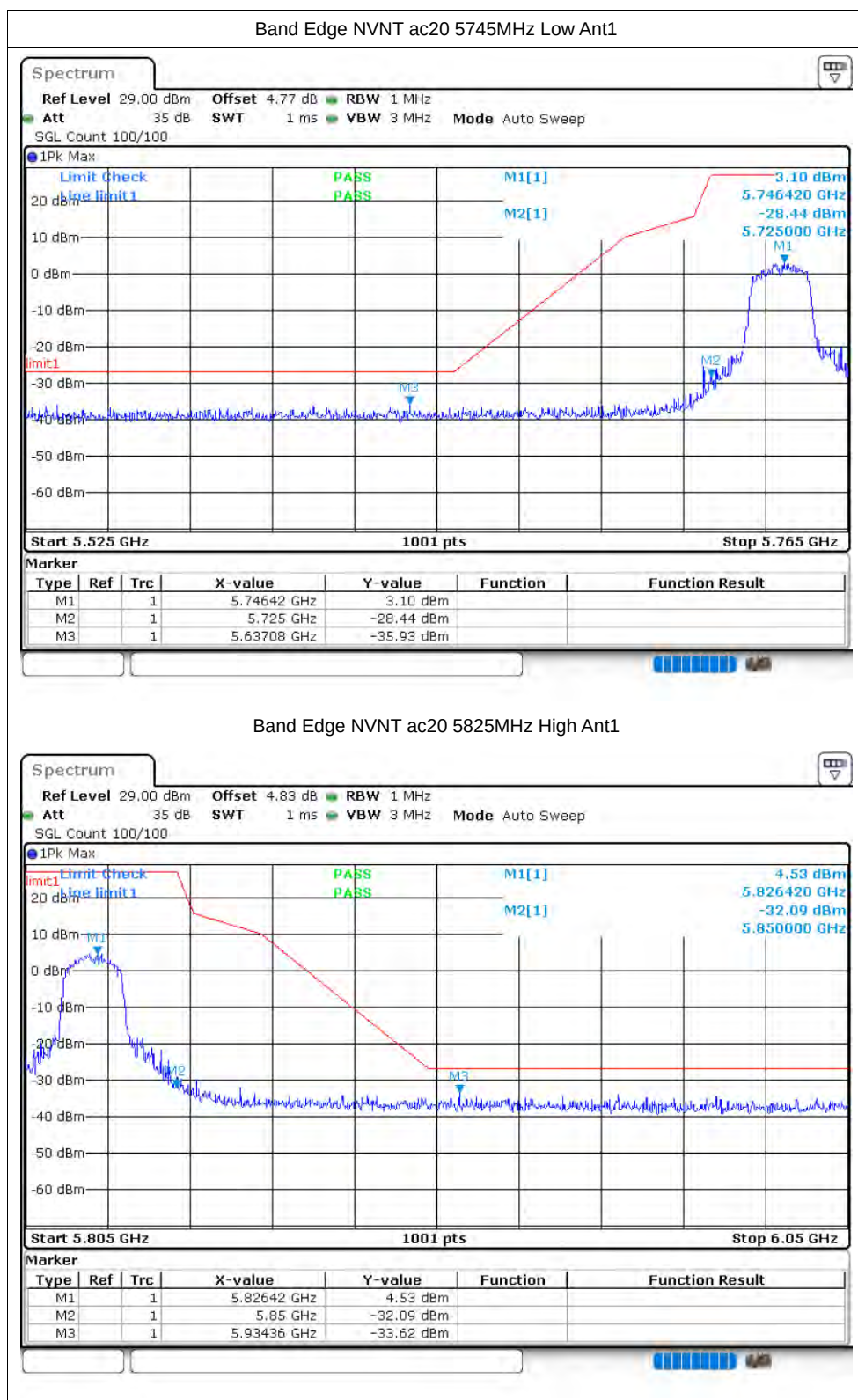


Band Edge NVNT n40 5755MHz Low Ant1

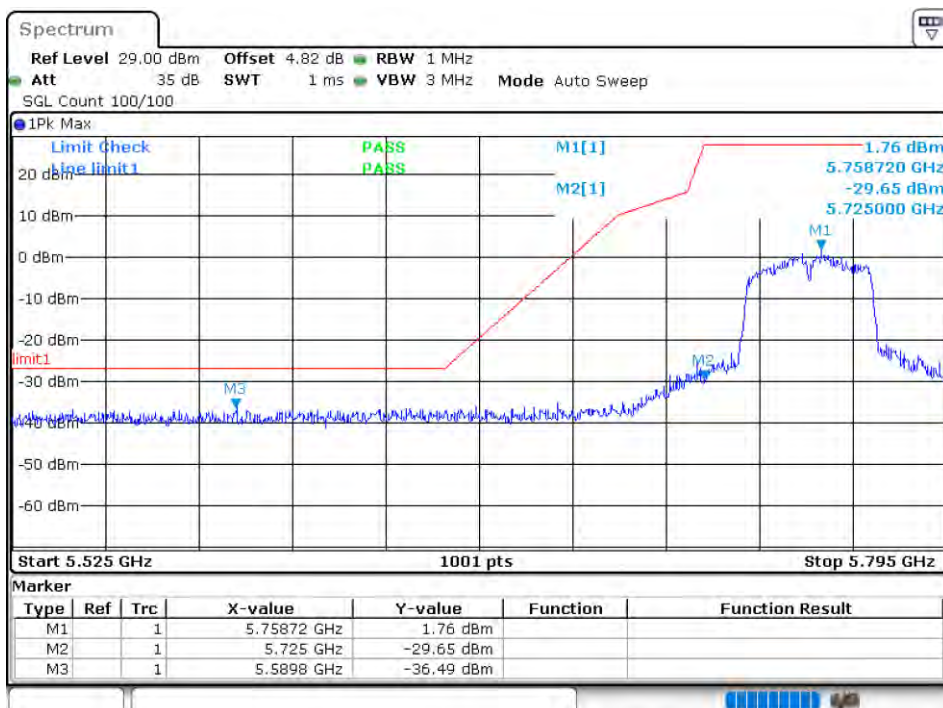


Band Edge NVNT n40 5795MHz High Ant1

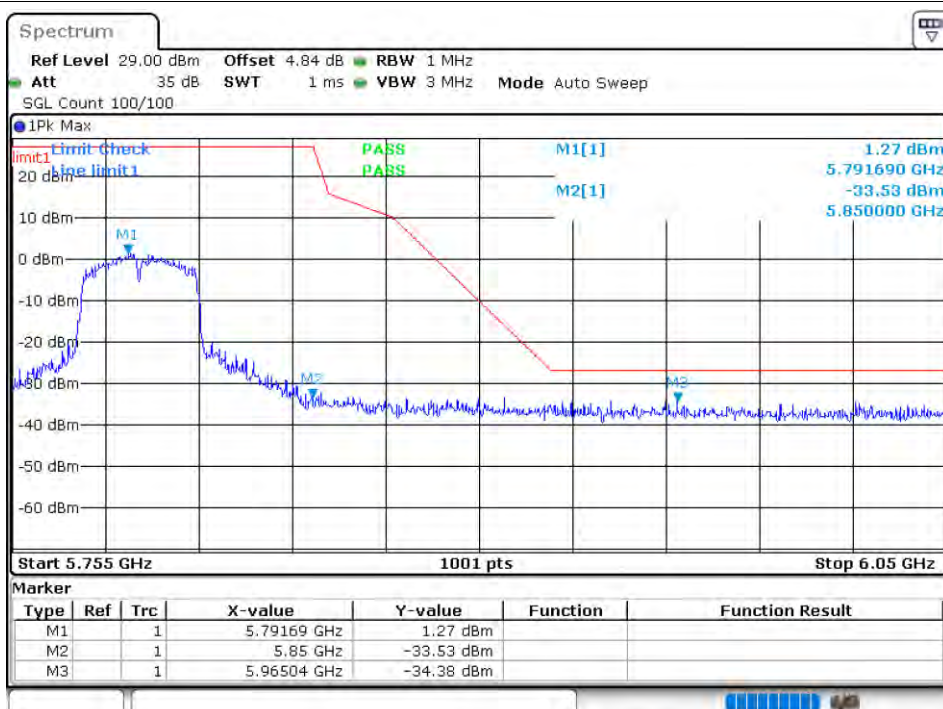




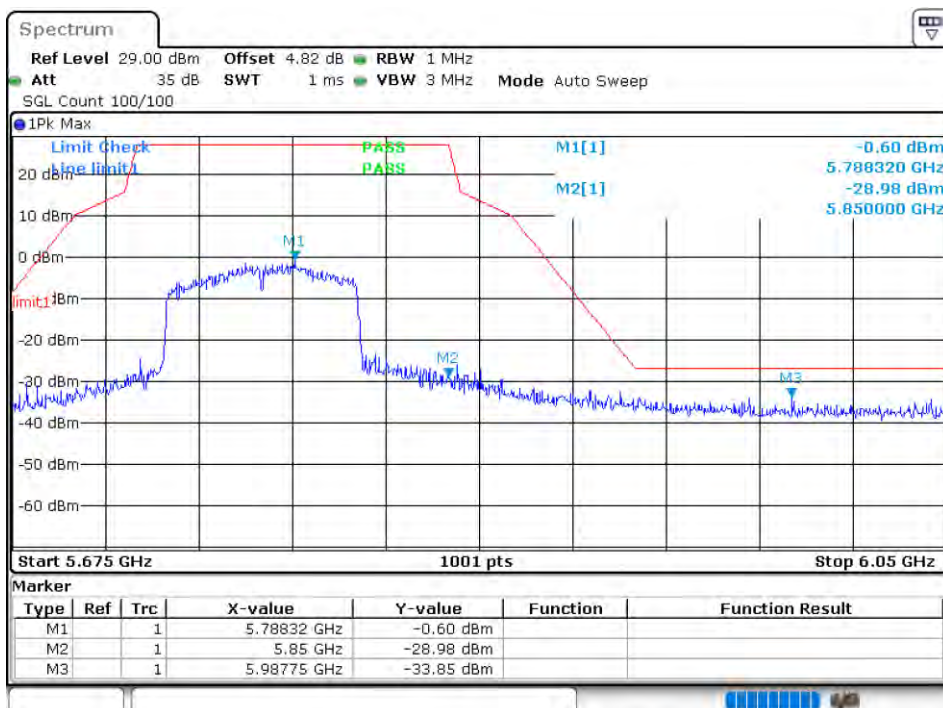
Band Edge NVNT ac40 5755MHz Low Ant1



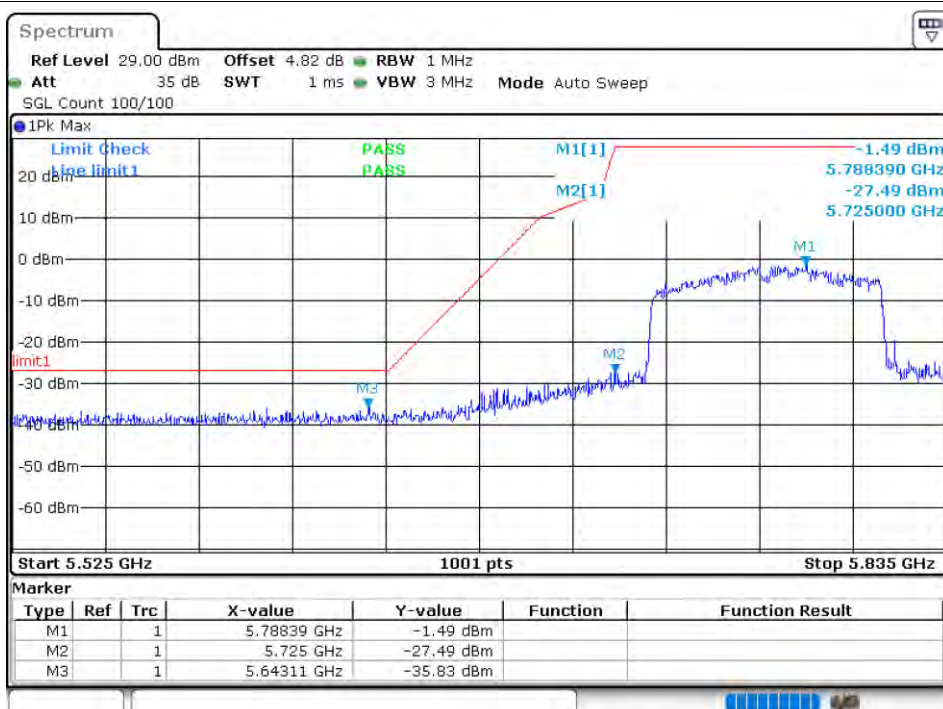
Band Edge NVNT ac40 5795MHz High Ant1



Band Edge NVNT ac80 5755MHz High Ant1



Band Edge NVNT ac80 5755MHz Low Ant1

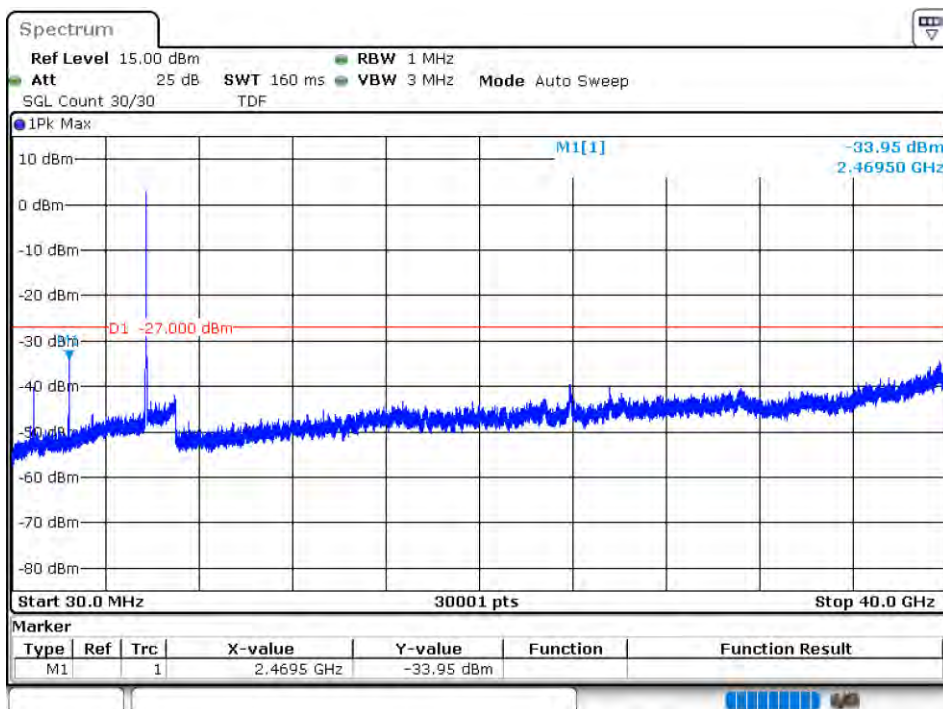


Conducted RF Spurious Emission

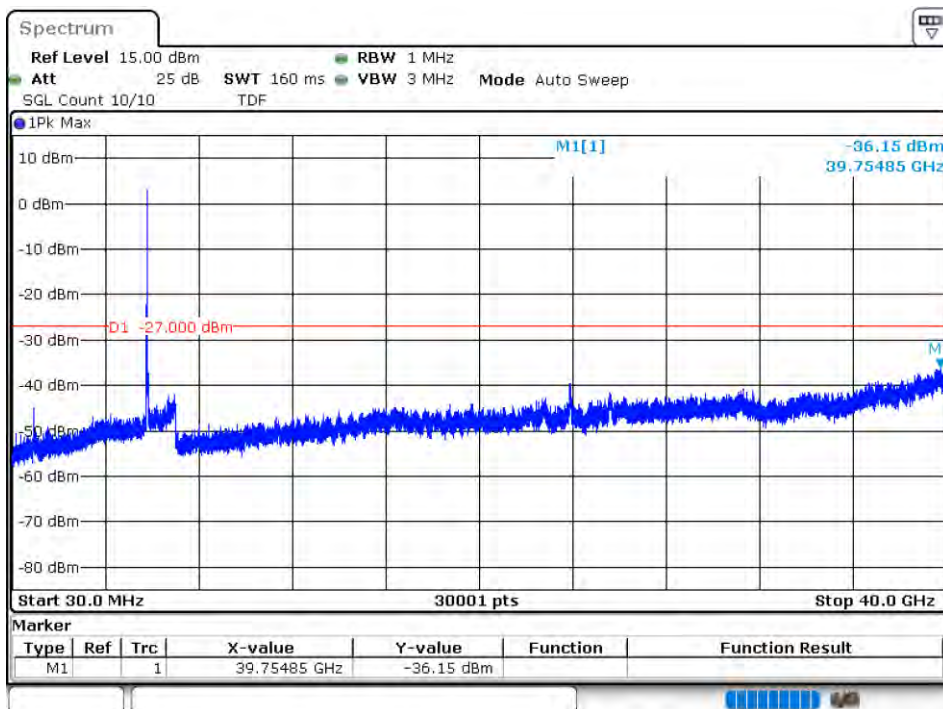
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit(dBm)	Verdict
NVNT	a	5745	Ant1	-33.94	-27	Pass
NVNT	a	5785	Ant1	-36.15	-27	Pass
NVNT	a	5825	Ant1	-34.45	-27	Pass
NVNT	n20	5745	Ant1	-34.11	-27	Pass
NVNT	n20	5785	Ant1	-35.36	-27	Pass
NVNT	n20	5825	Ant1	-36.42	-27	Pass
NVNT	n40	5755	Ant1	-35.91	-27	Pass
NVNT	n40	5795	Ant1	-35.46	-27	Pass
NVNT	ac20	5745	Ant1	-35.94	-27	Pass
NVNT	ac20	5785	Ant1	-35.82	-27	Pass
NVNT	ac20	5825	Ant1	-35.32	-27	Pass
NVNT	ac40	5755	Ant1	-36.29	-27	Pass
NVNT	ac40	5795	Ant1	-34.87	-27	Pass
NVNT	ac80	5775	Ant1	-35.55	-27	Pass

Test Graphs

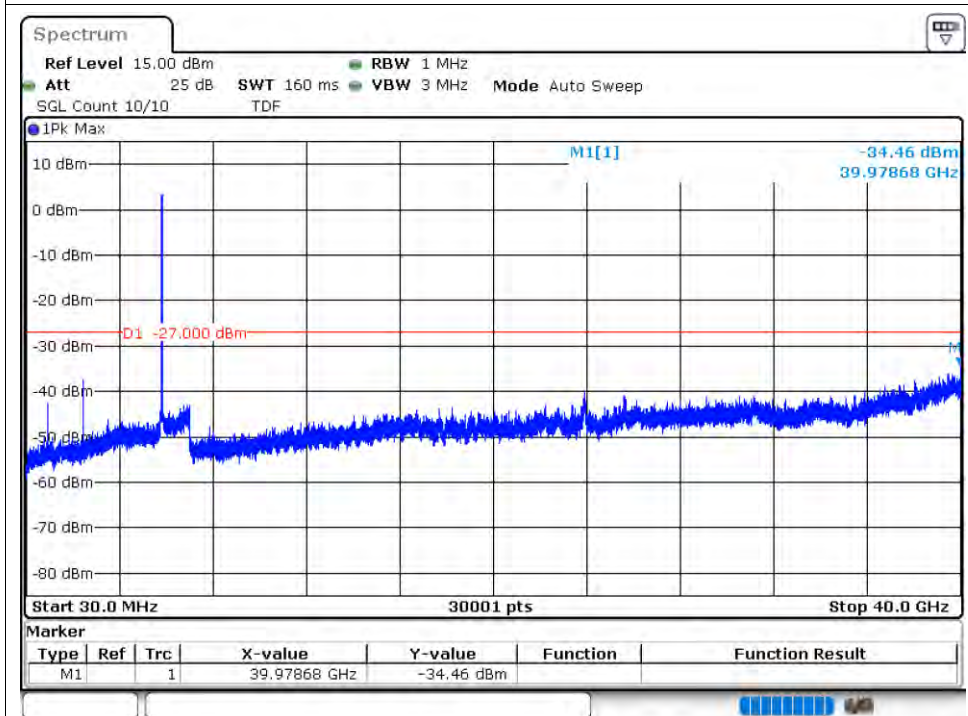
Tx. Spurious NVNT a 5745MHz Ant1 Emission



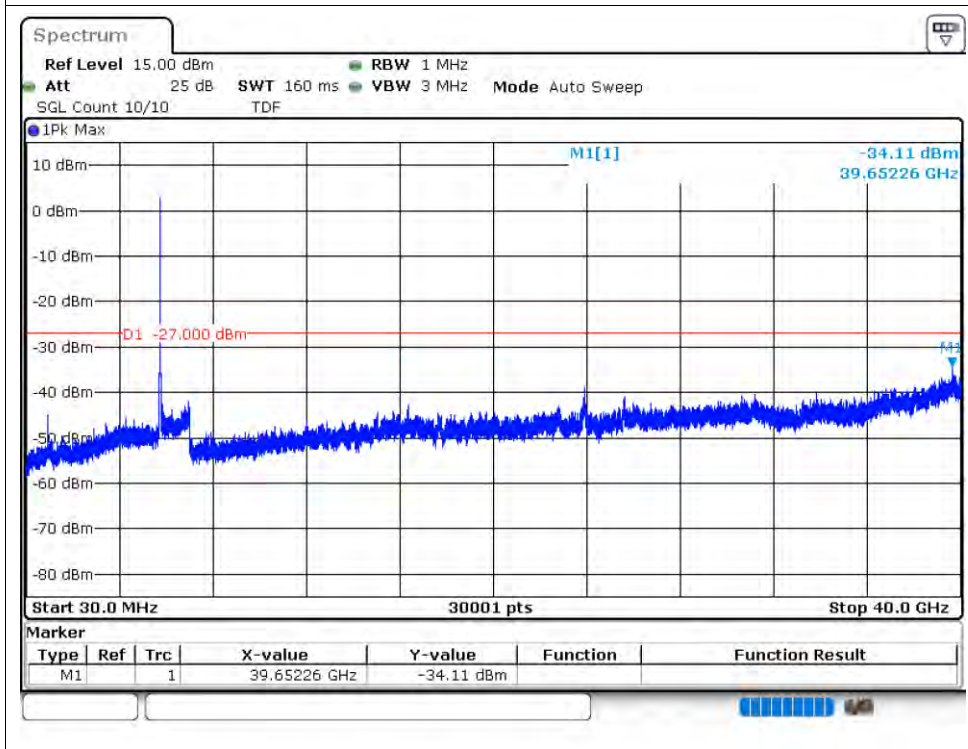
Tx. Spurious NVNT a 5785MHz Ant1 Emission



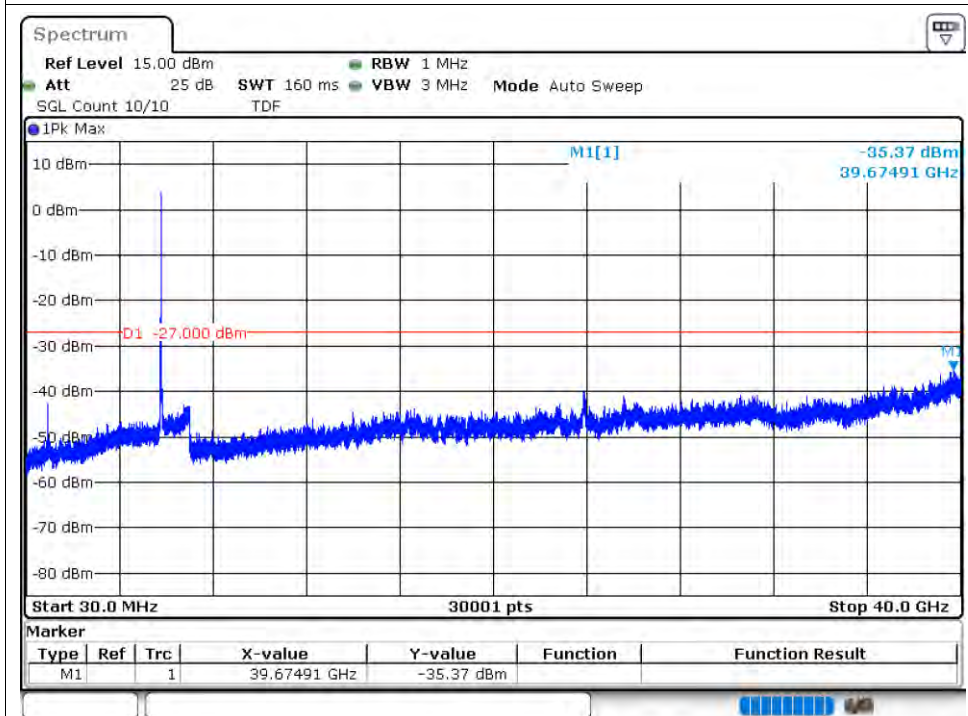
Tx. Spurious NVNT a 5825MHz Ant1 Emission



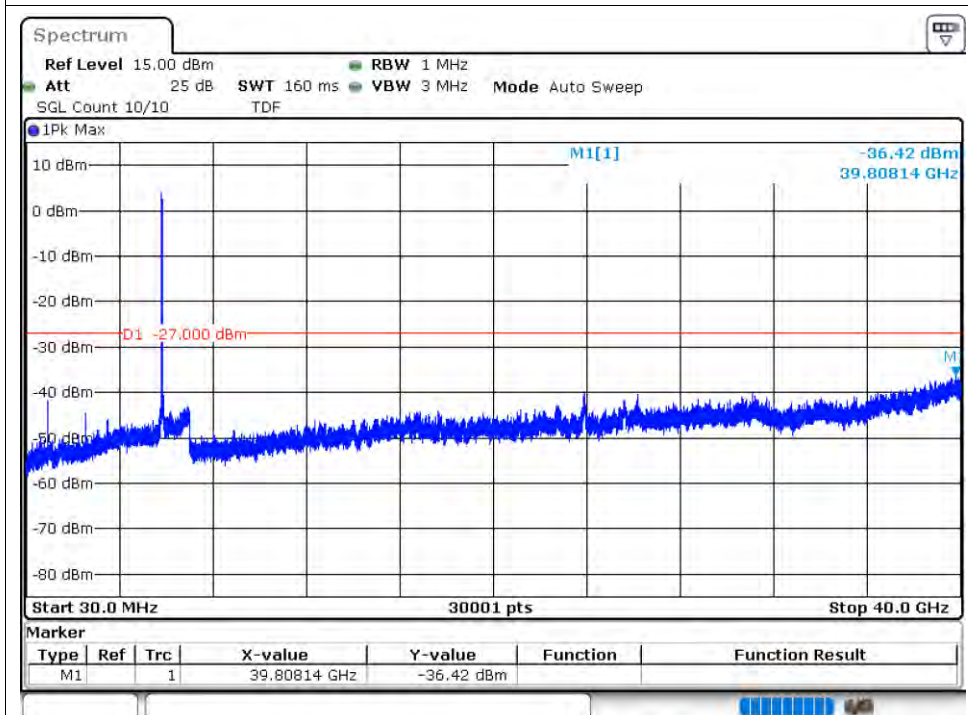
Tx. Spurious NVNT n20 5745MHz Ant1 Emission

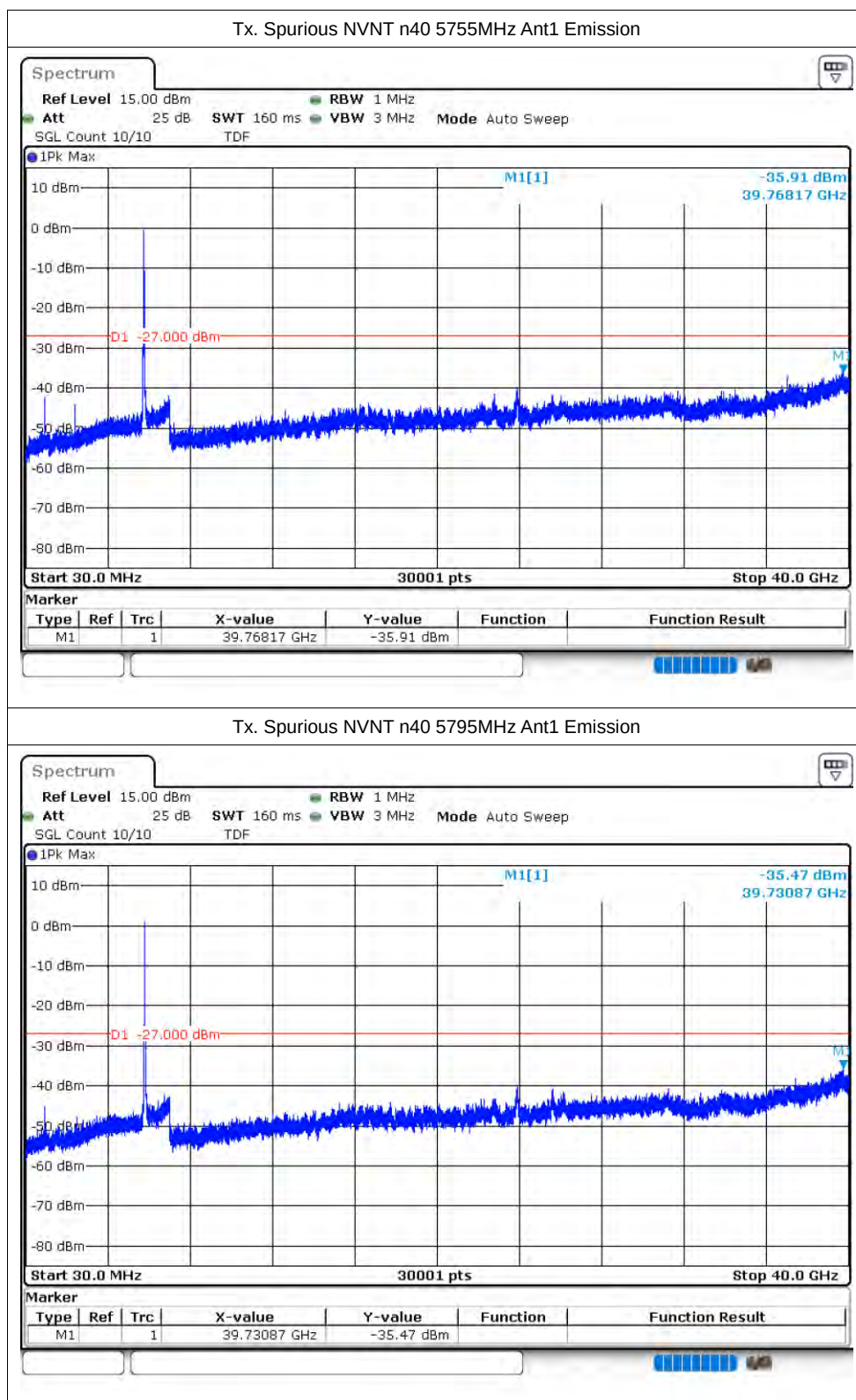


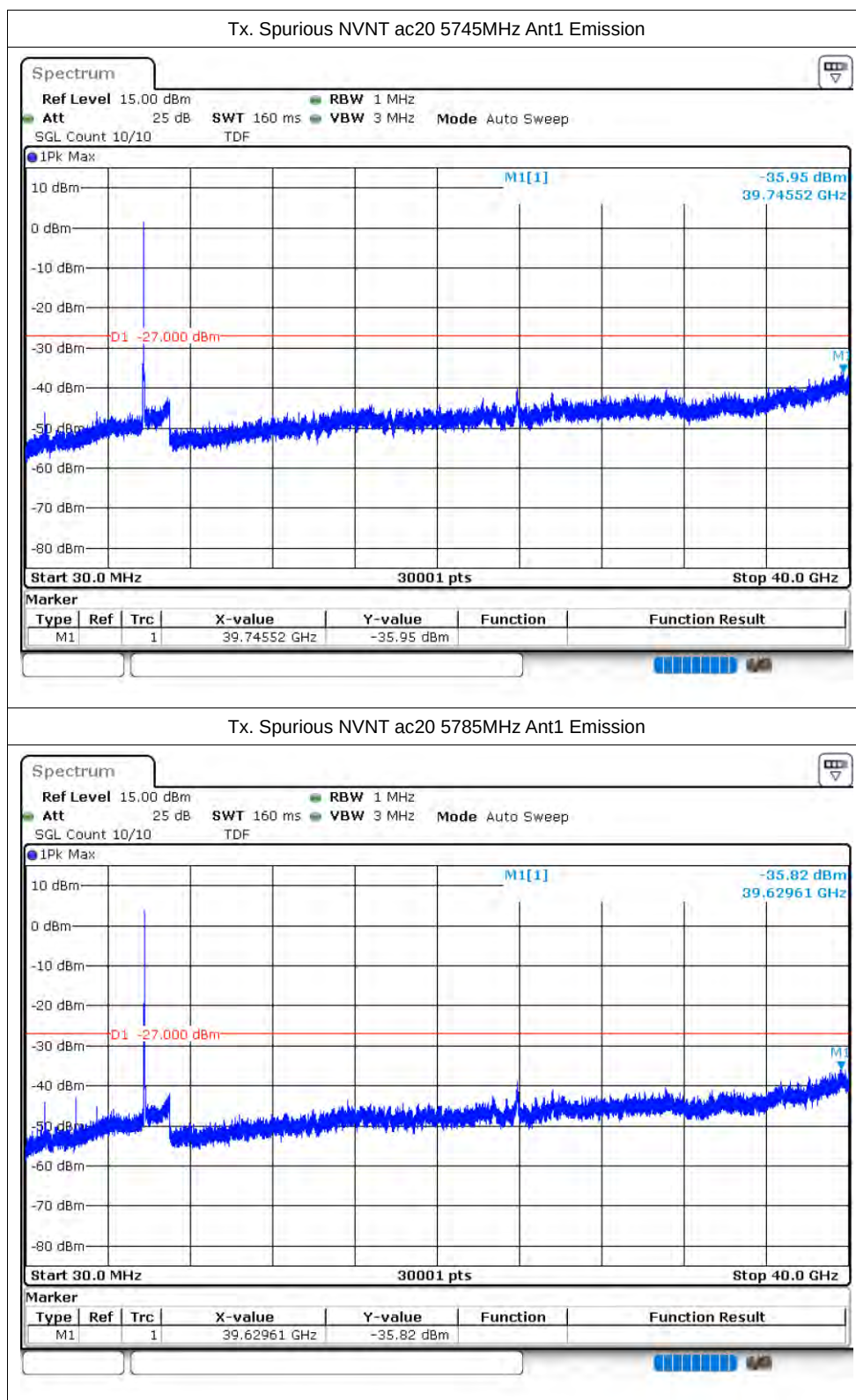
Tx. Spurious NVNT n20 5785MHz Ant1 Emission

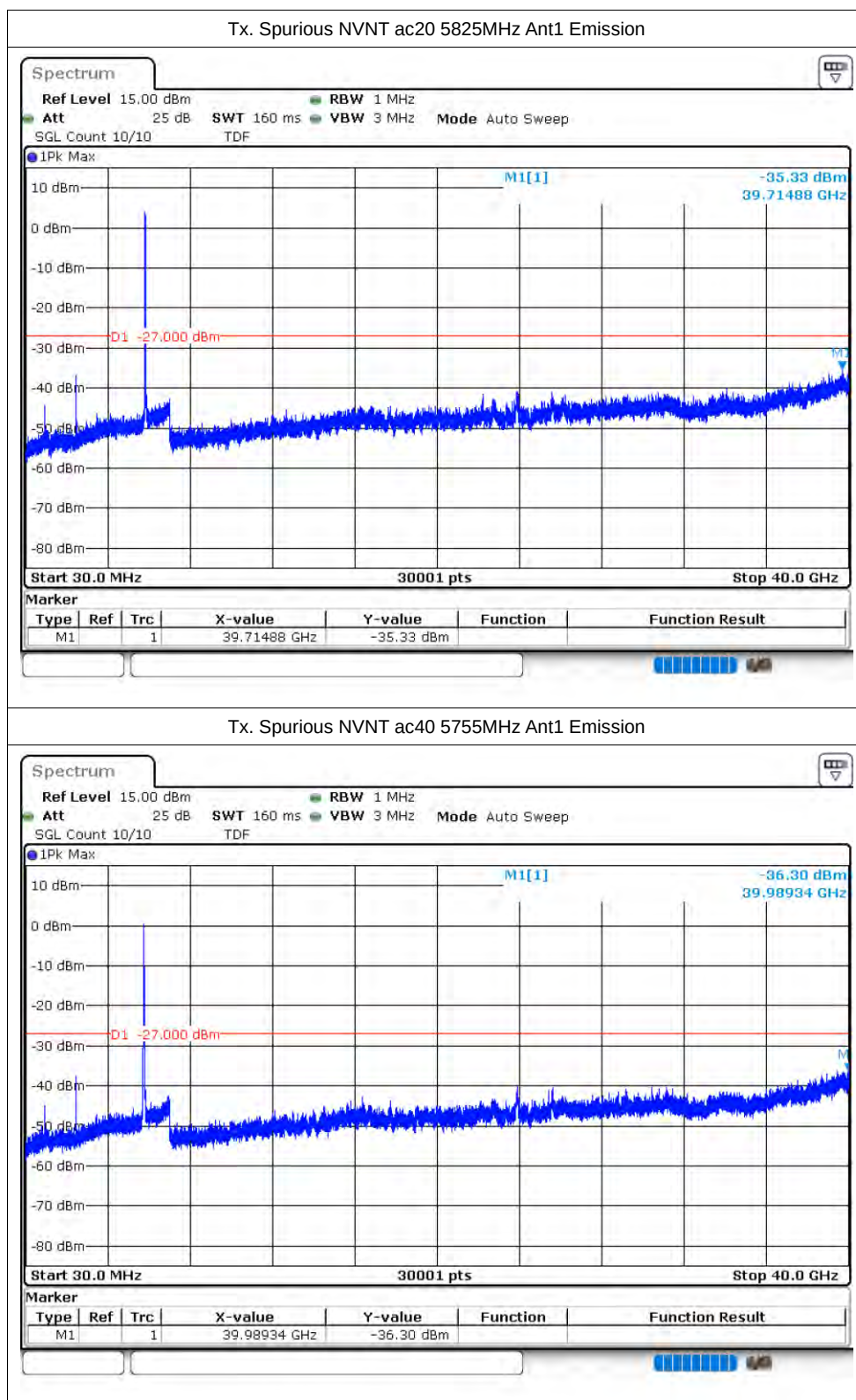


Tx. Spurious NVNT n20 5825MHz Ant1 Emission

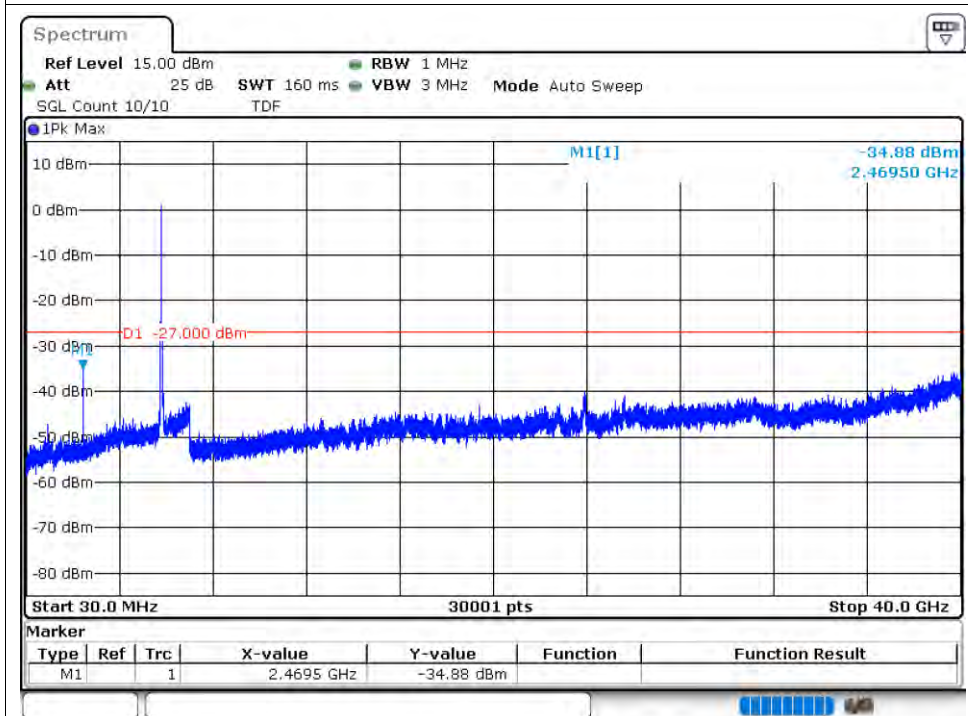








Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



Tx. Spurious NVNT ac80 5775MHz Ant1 Emission

