

WIFI 5.2G:

Duty Cycle

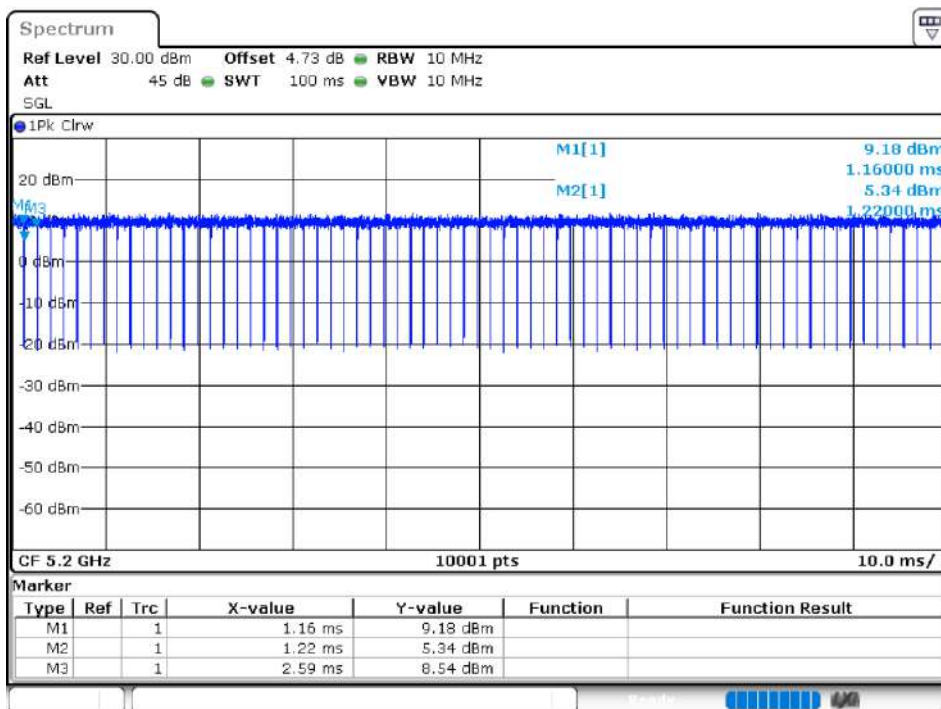
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	96.27	0.17	0.74
NVNT	a	5200	Ant1	96.29	0.16	0.73
NVNT	a	5240	Ant1	96.29	0.16	0.73
NVNT	n20	5180	Ant1	95.44	0.2	0.87
NVNT	n20	5200	Ant1	95.49	0.2	0.87
NVNT	n20	5240	Ant1	95.9	0.18	0.86
NVNT	n40	5190	Ant1	91.71	0.38	1.72
NVNT	n40	5230	Ant1	91.69	0.38	1.75
NVNT	ac20	5180	Ant1	95.61	0.19	0.86
NVNT	ac20	5200	Ant1	95.67	0.19	0.86
NVNT	ac20	5240	Ant1	95.65	0.19	0.86
NVNT	ac40	5190	Ant1	91.76	0.37	1.72
NVNT	ac40	5230	Ant1	91.77	0.37	1.72
NVNT	ac80	5210	Ant1	85.28	0.69	3.45

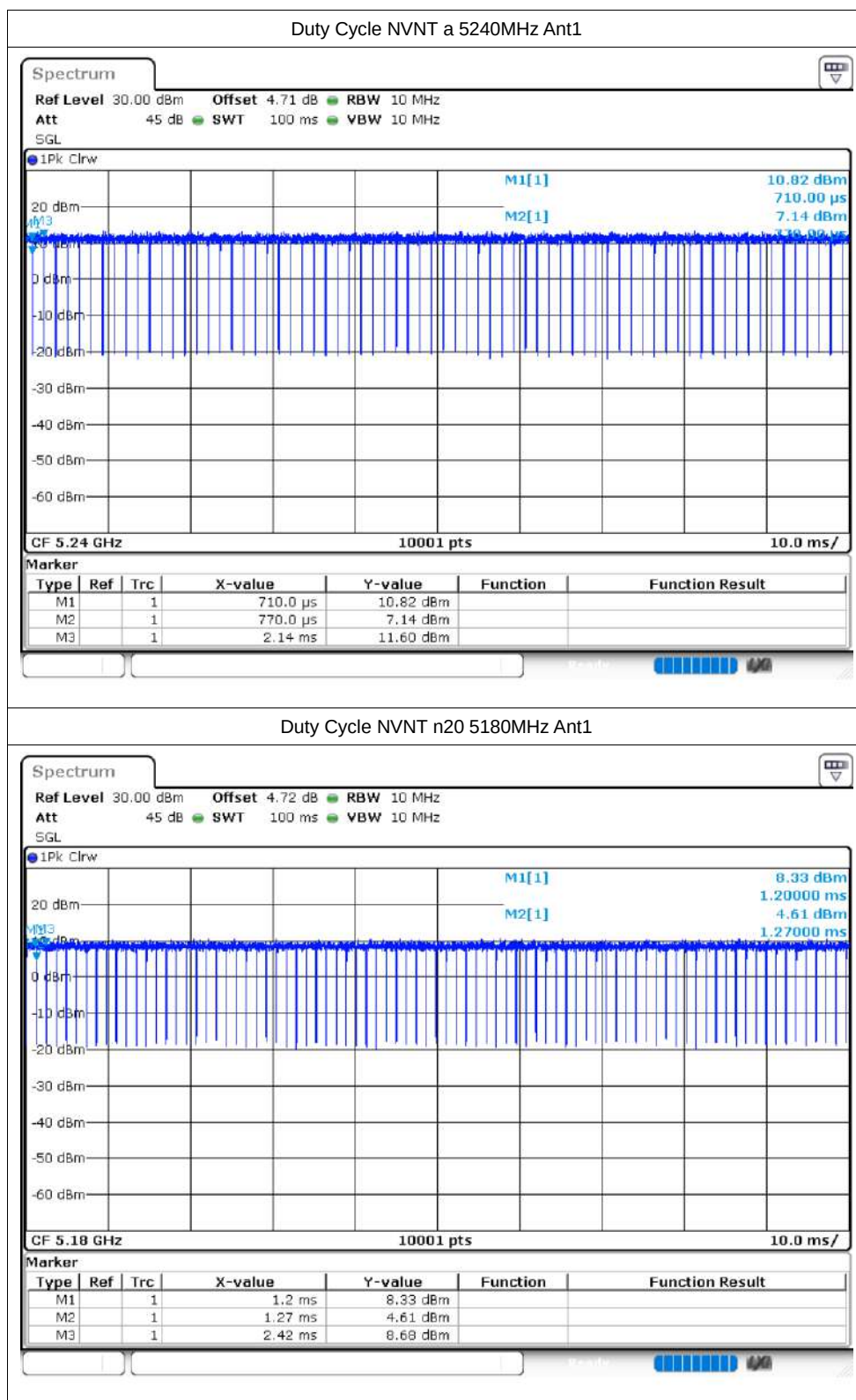
Test Graphs

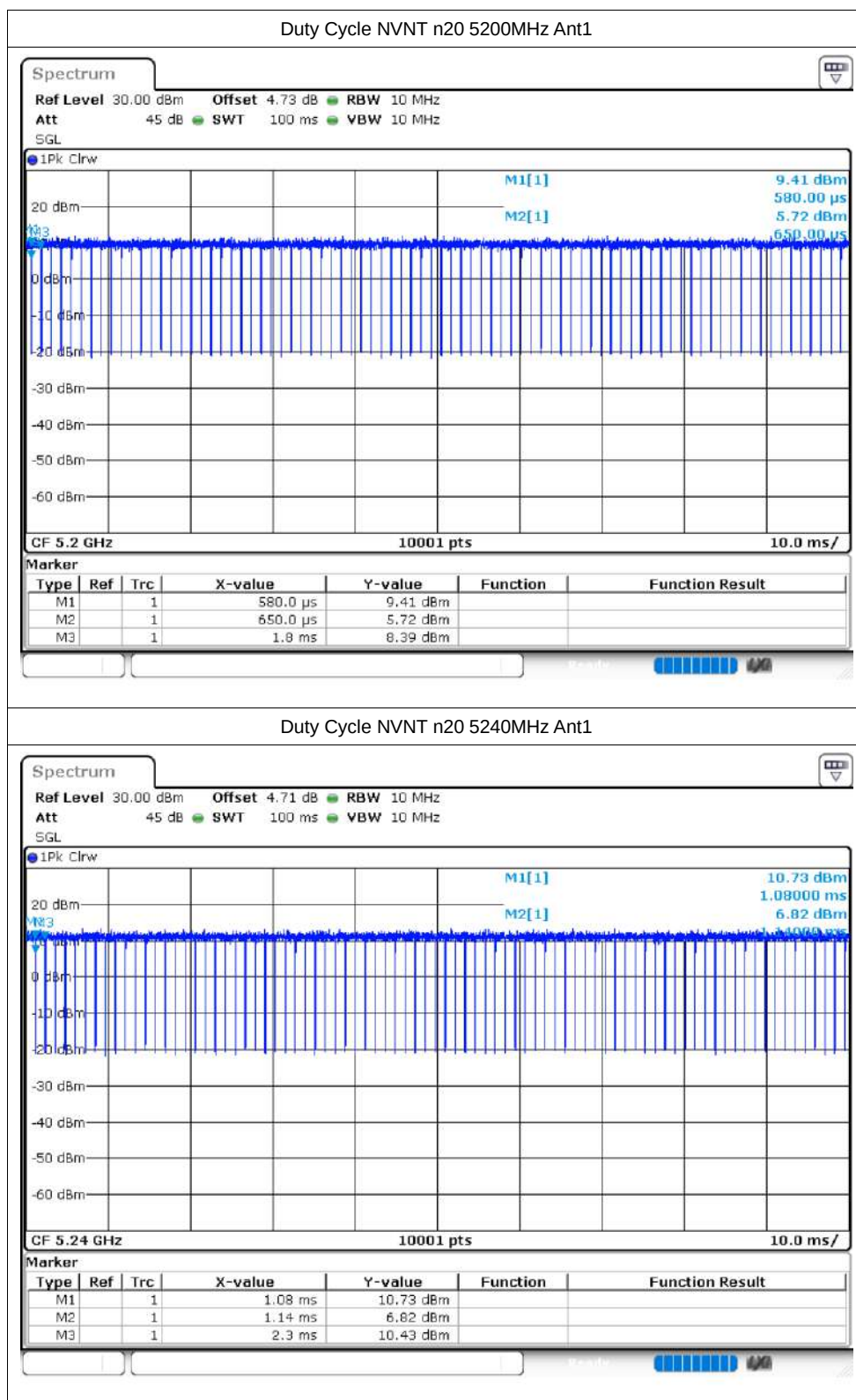
Duty Cycle NVNT a 5180MHz Ant1

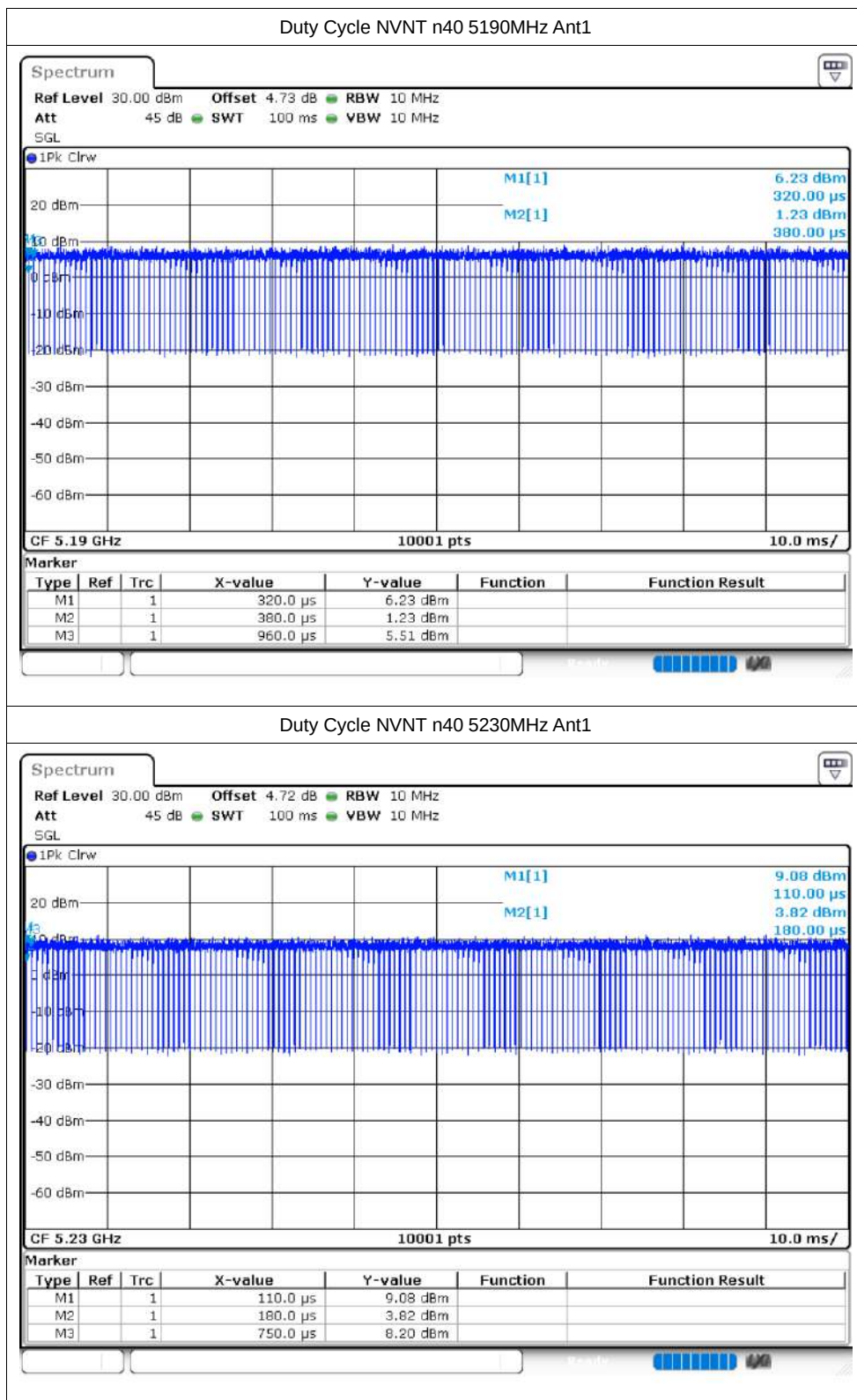


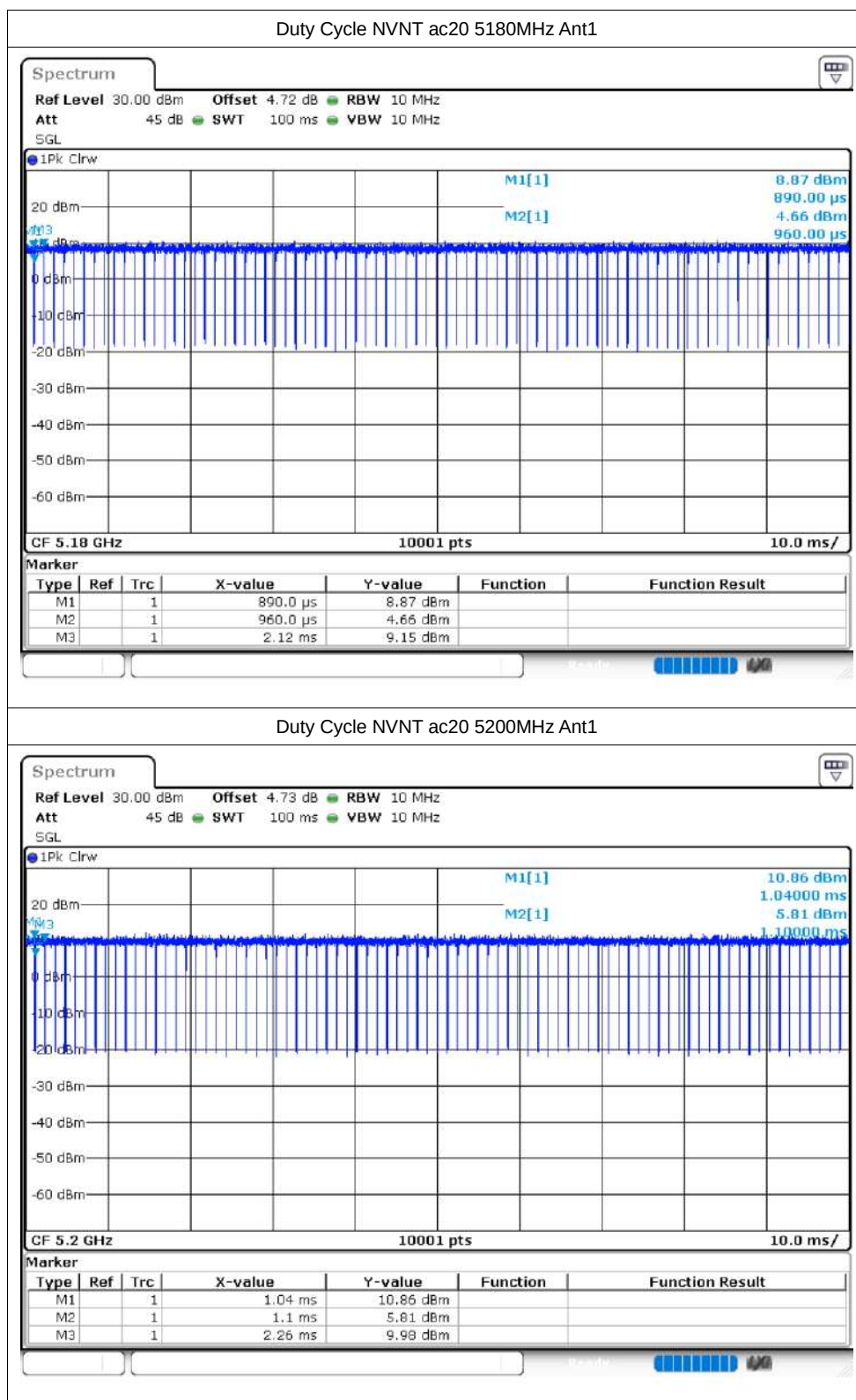
Duty Cycle NVNT a 5200MHz Ant1

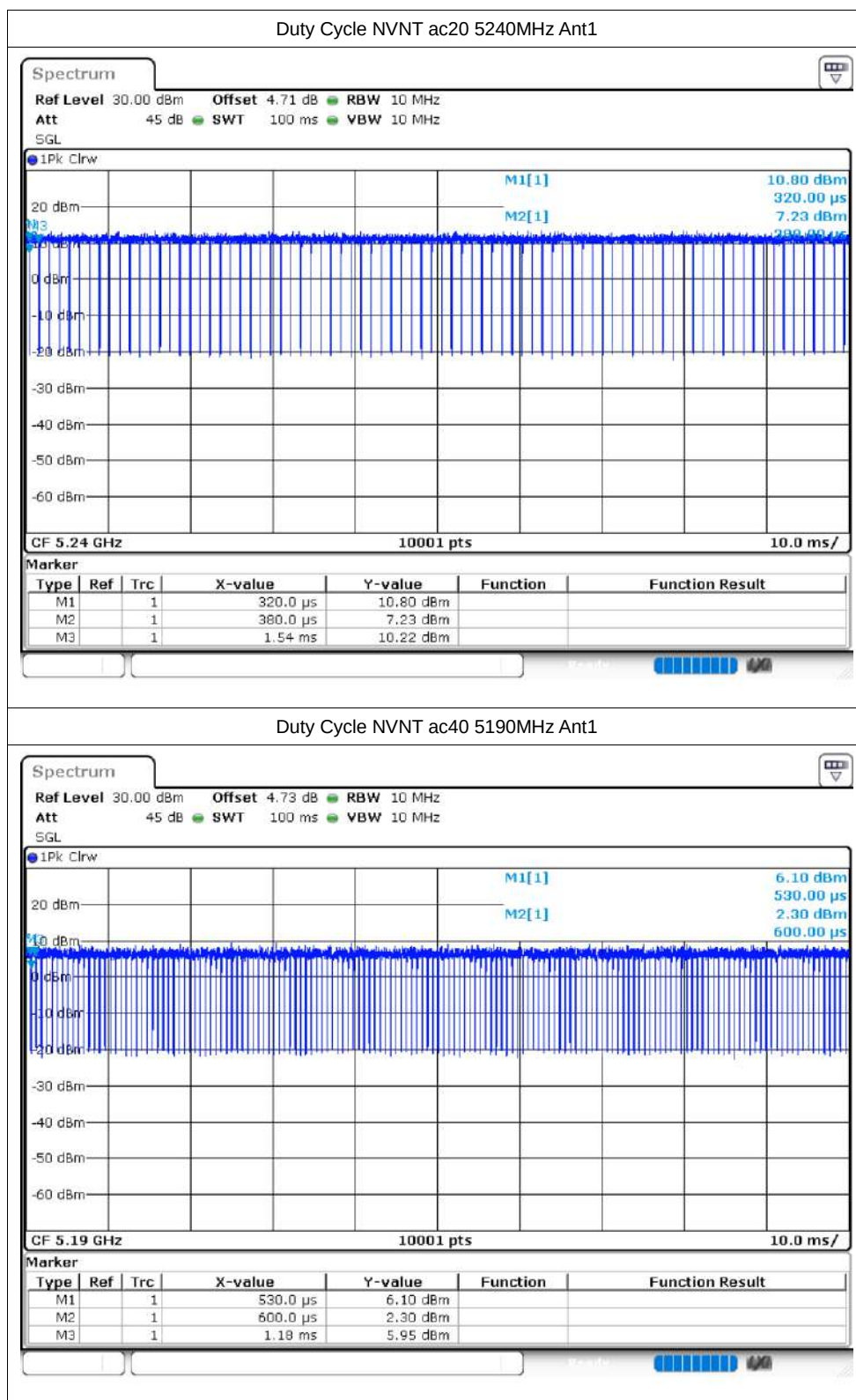


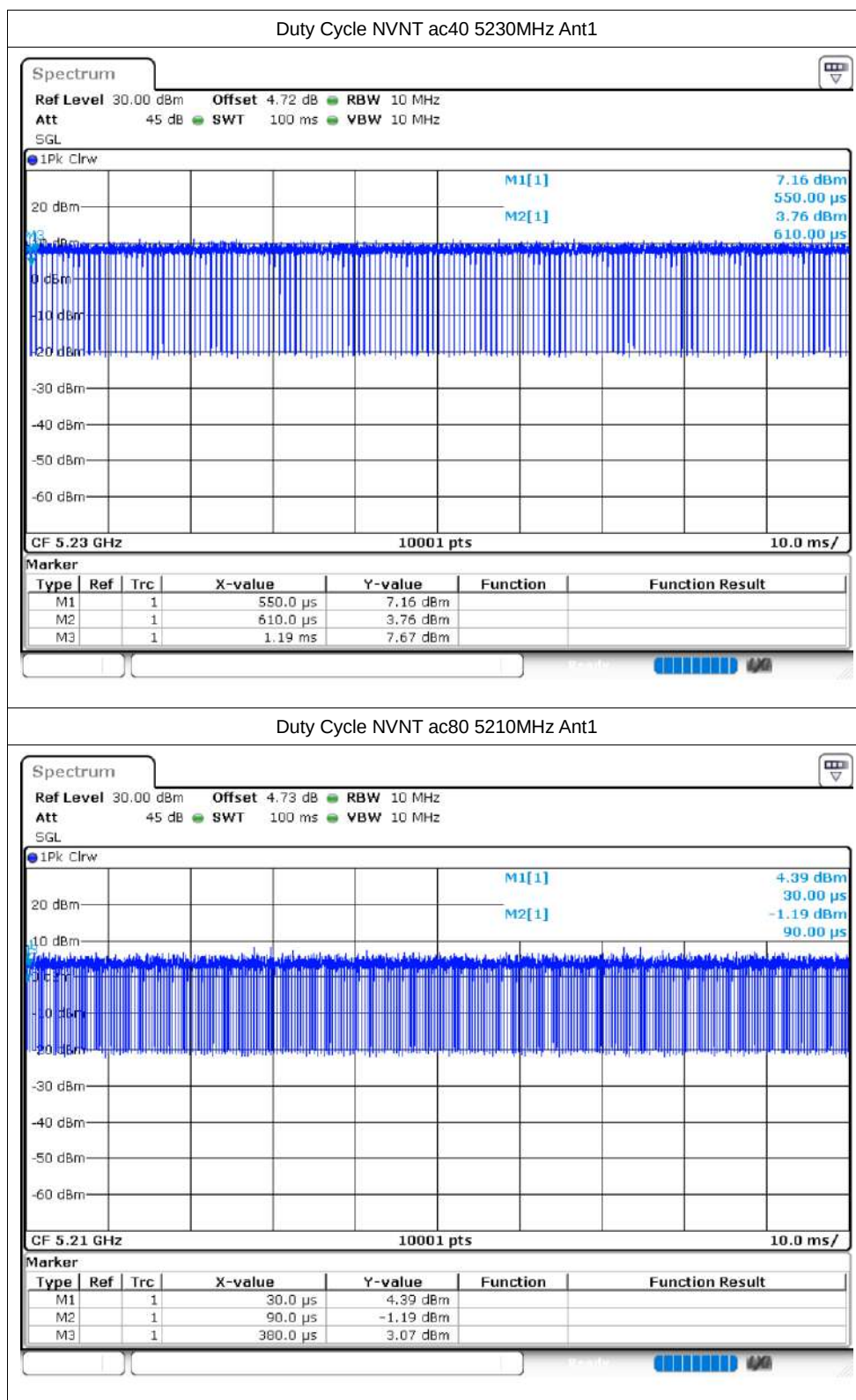












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.37	24	Pass
NVNT	a	5200	Ant1	4.69	24	Pass
NVNT	a	5240	Ant1	5.51	24	Pass
NVNT	n20	5180	Ant1	5.5	24	Pass
NVNT	n20	5200	Ant1	5.82	24	Pass
NVNT	n20	5240	Ant1	5.93	24	Pass
NVNT	n40	5190	Ant1	4.74	24	Pass
NVNT	n40	5230	Ant1	5.88	24	Pass
NVNT	ac20	5180	Ant1	5.26	24	Pass
NVNT	ac20	5200	Ant1	5.6	24	Pass
NVNT	ac20	5240	Ant1	5.62	24	Pass
NVNT	ac40	5190	Ant1	5.37	24	Pass
NVNT	ac40	5230	Ant1	5.86	24	Pass
NVNT	ac80	5210	Ant1	5.94	24	Pass

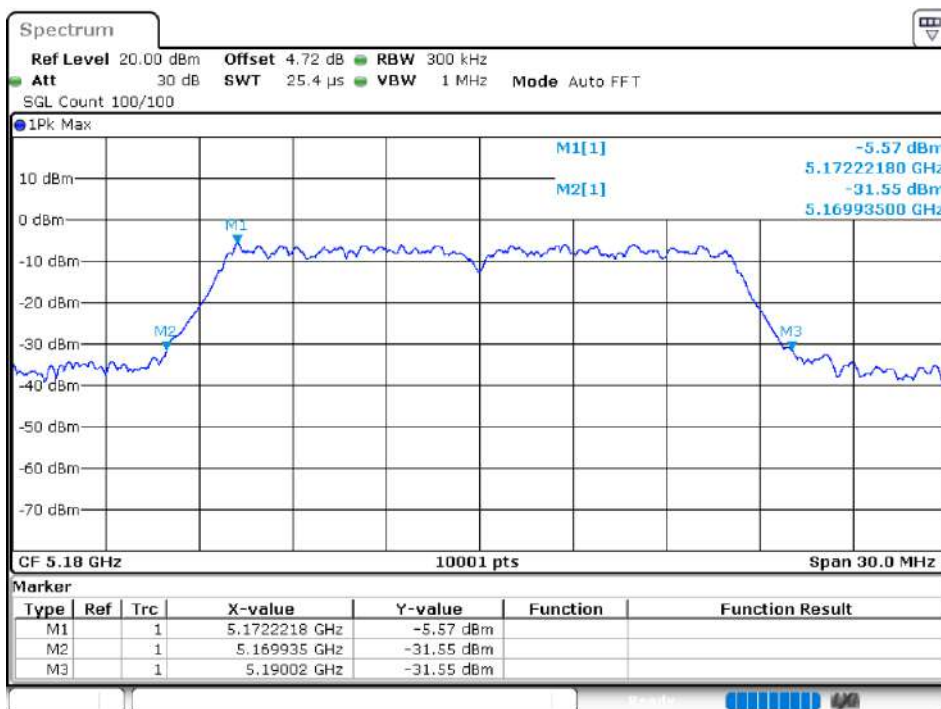
Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.085	Pass
NVNT	a	5200	Ant1	19.98	Pass
NVNT	a	5240	Ant1	21.09	Pass
NVNT	n20	5180	Ant1	23.052	Pass
NVNT	n20	5200	Ant1	24.465	Pass
NVNT	n20	5240	Ant1	20.691	Pass
NVNT	n40	5190	Ant1	49.278	Pass
NVNT	n40	5230	Ant1	49.122	Pass
NVNT	ac20	5180	Ant1	24.249	Pass
NVNT	ac20	5200	Ant1	22.377	Pass
NVNT	ac20	5240	Ant1	23.37	Pass
NVNT	ac40	5190	Ant1	52.572	Pass
NVNT	ac40	5230	Ant1	42.636	Pass
NVNT	ac80	5210	Ant1	87.804	Pass

Test Graphs

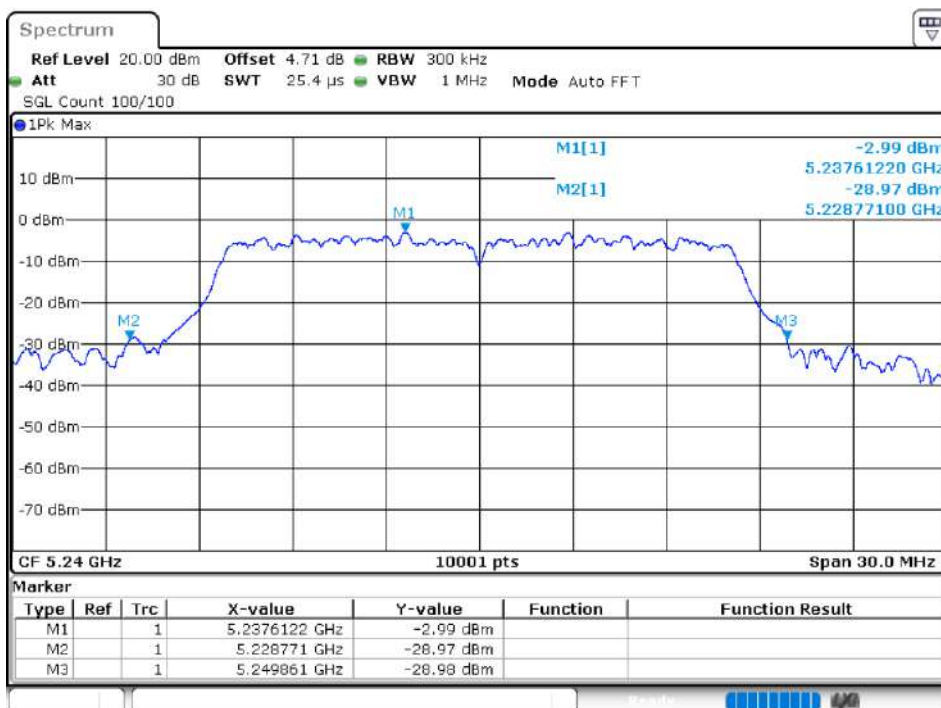
-26dB Bandwidth NVNT a 5180MHz Ant1



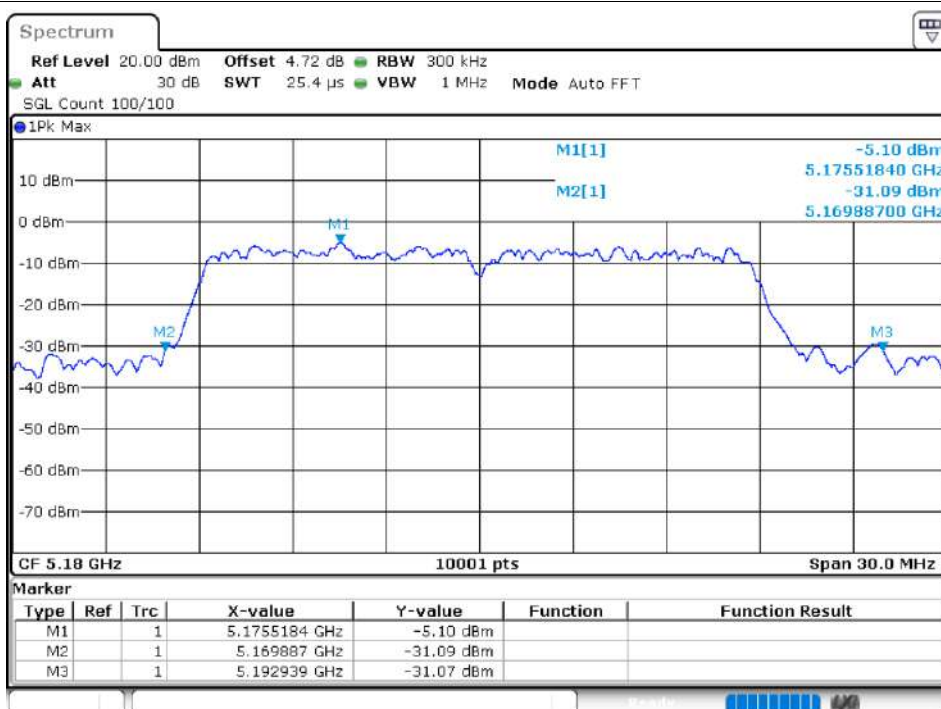
-26dB Bandwidth NVNT a 5200MHz Ant1

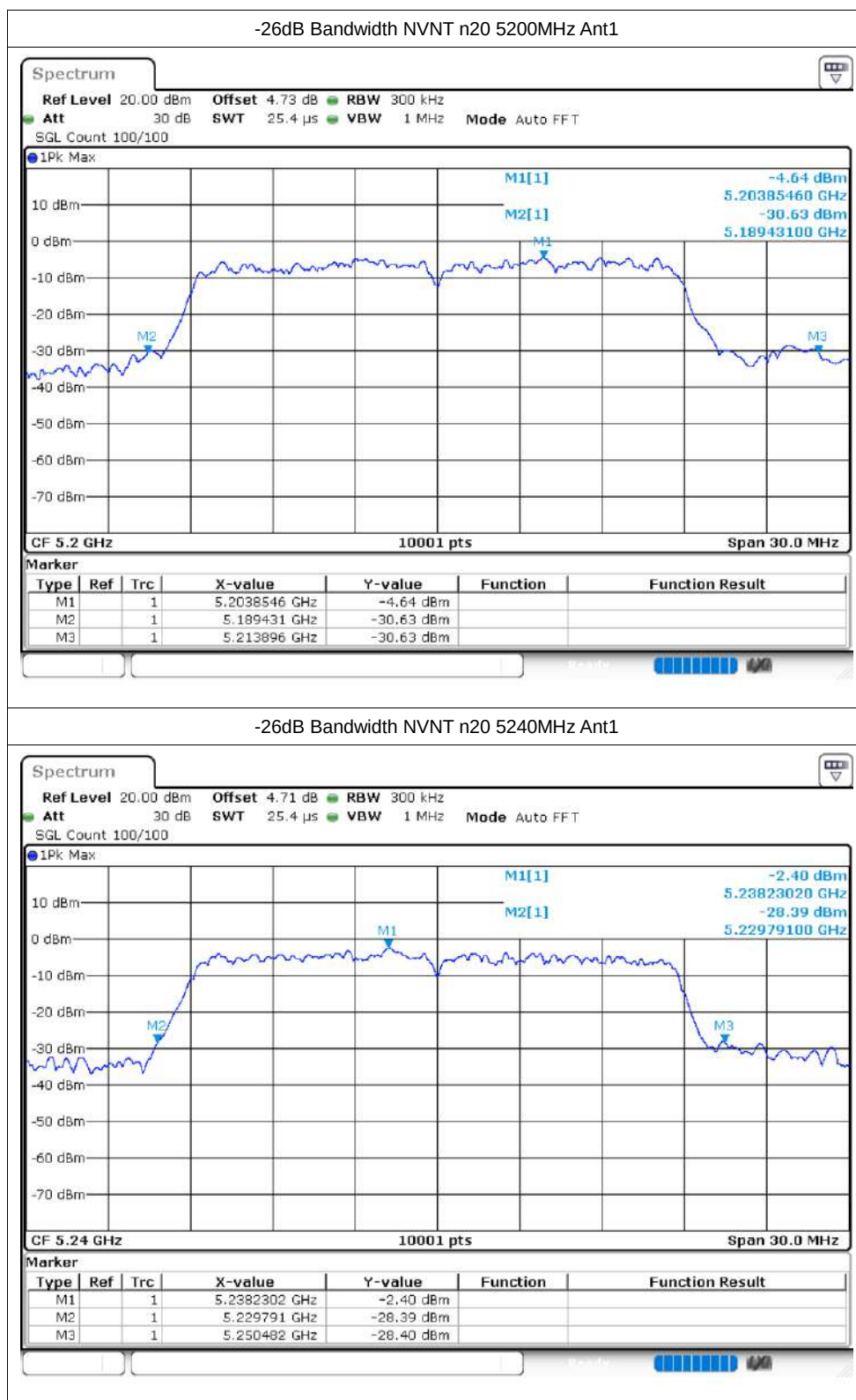


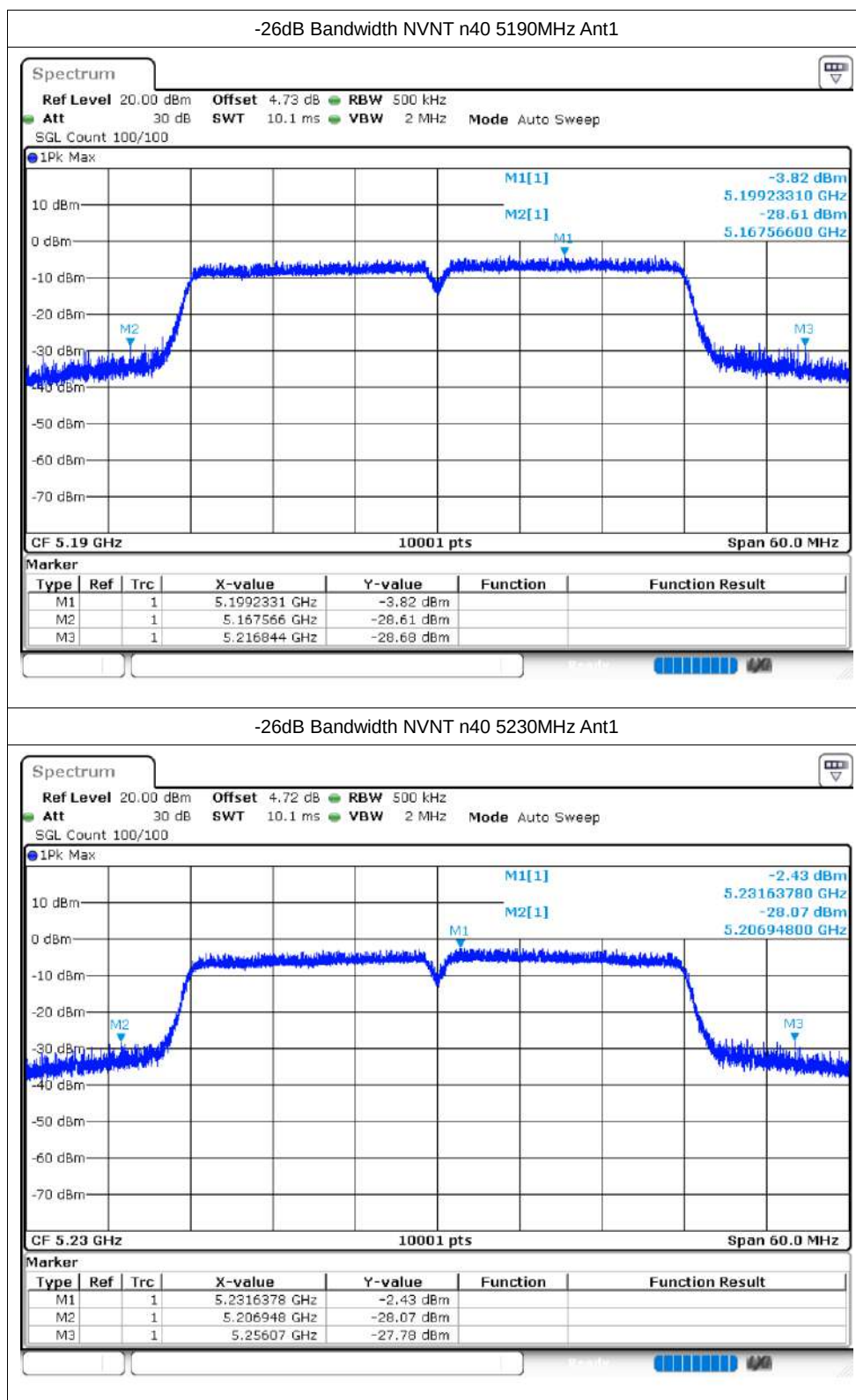
-26dB Bandwidth NVNT a 5240MHz Ant1

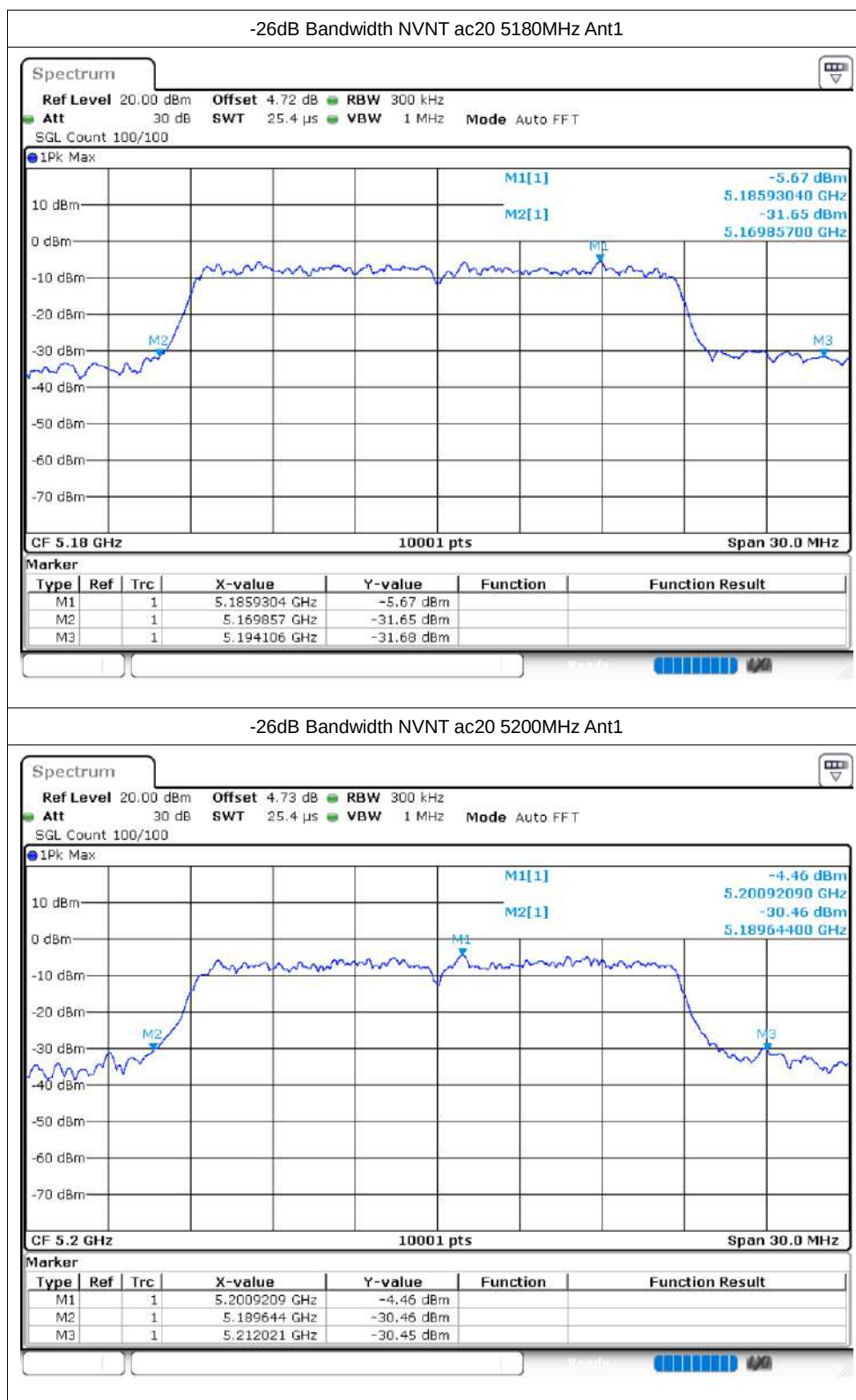


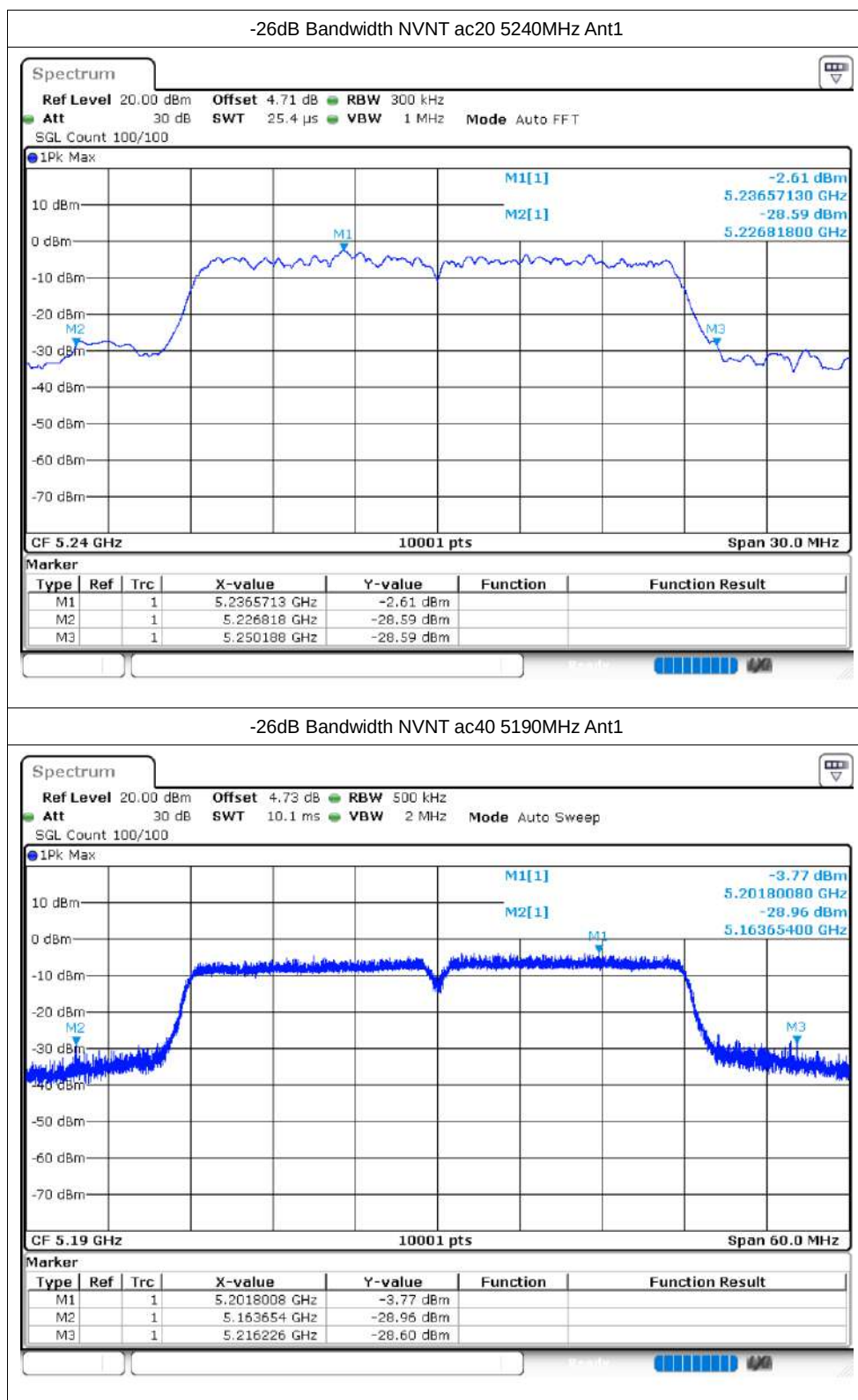
-26dB Bandwidth NVNT n20 5180MHz Ant1

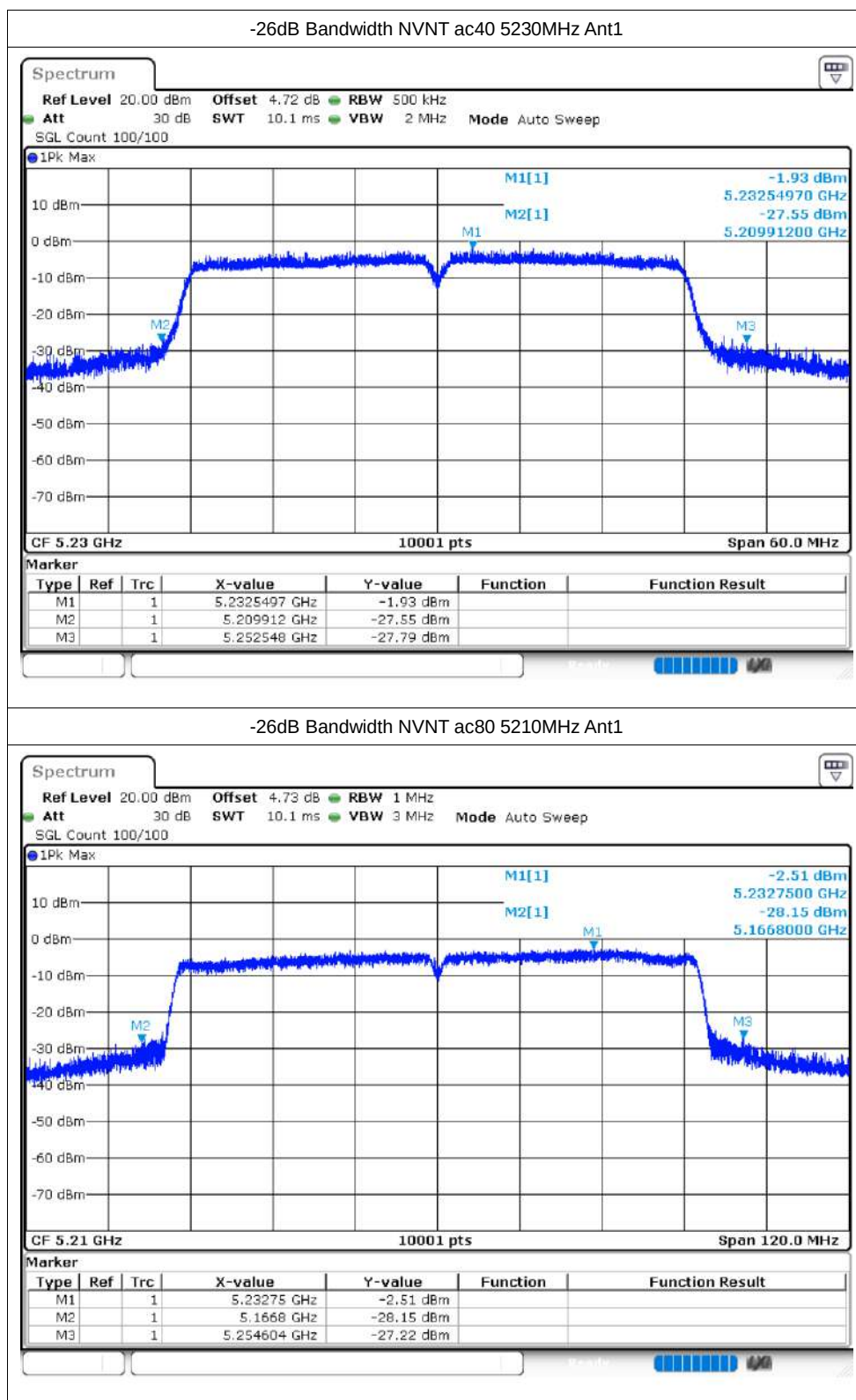










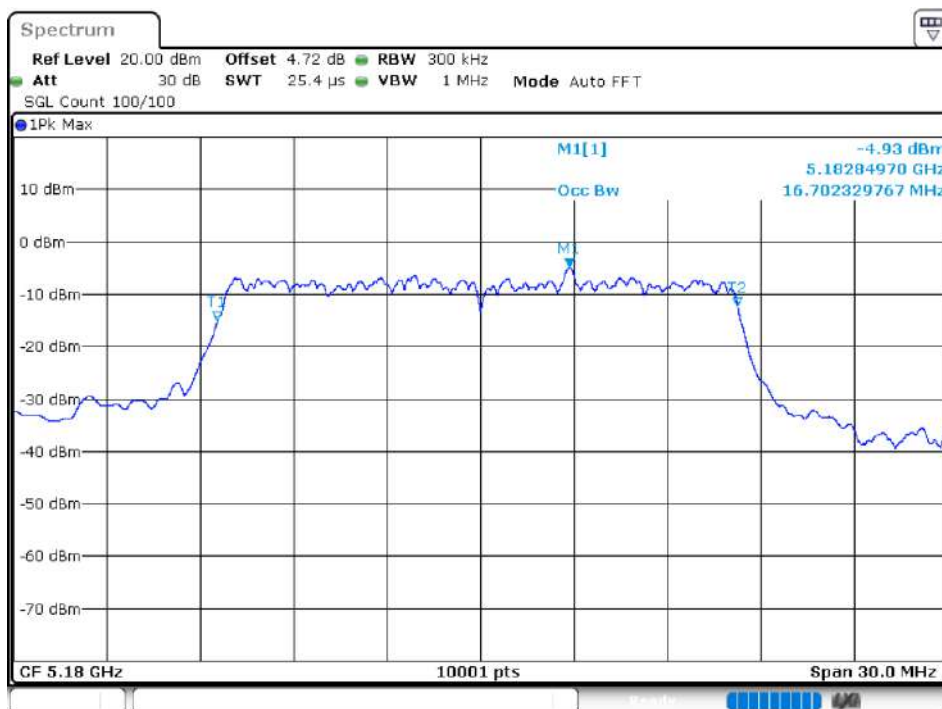


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.702
NVNT	a	5200	Ant1	16.711
NVNT	a	5240	Ant1	16.663
NVNT	n20	5180	Ant1	17.671
NVNT	n20	5200	Ant1	17.623
NVNT	n20	5240	Ant1	17.596
NVNT	n40	5190	Ant1	36.206
NVNT	n40	5230	Ant1	36.092
NVNT	ac20	5180	Ant1	17.788
NVNT	ac20	5200	Ant1	17.668
NVNT	ac20	5240	Ant1	17.806
NVNT	ac40	5190	Ant1	36.212
NVNT	ac40	5230	Ant1	36.086
NVNT	ac80	5210	Ant1	75.448

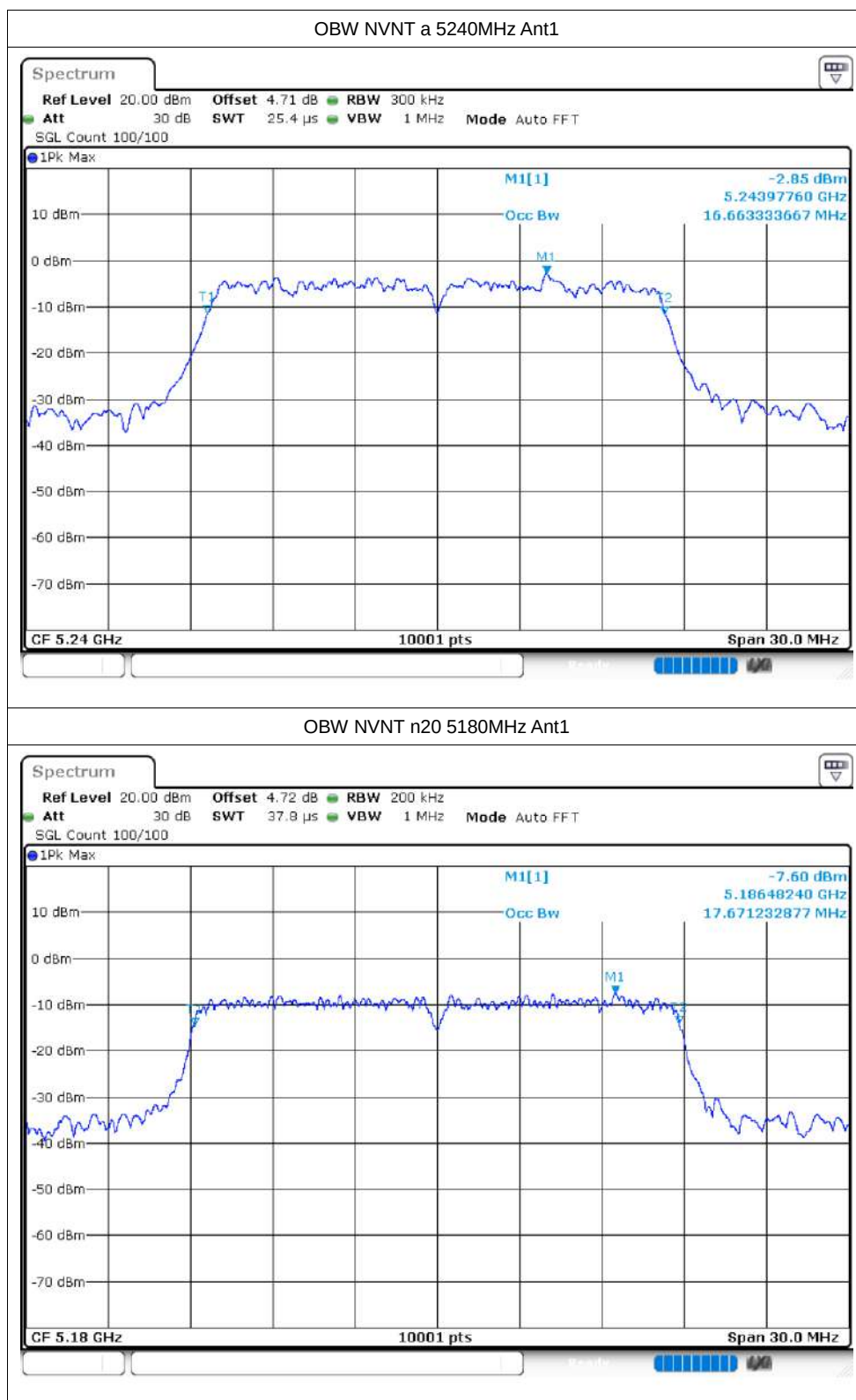
Test Graphs

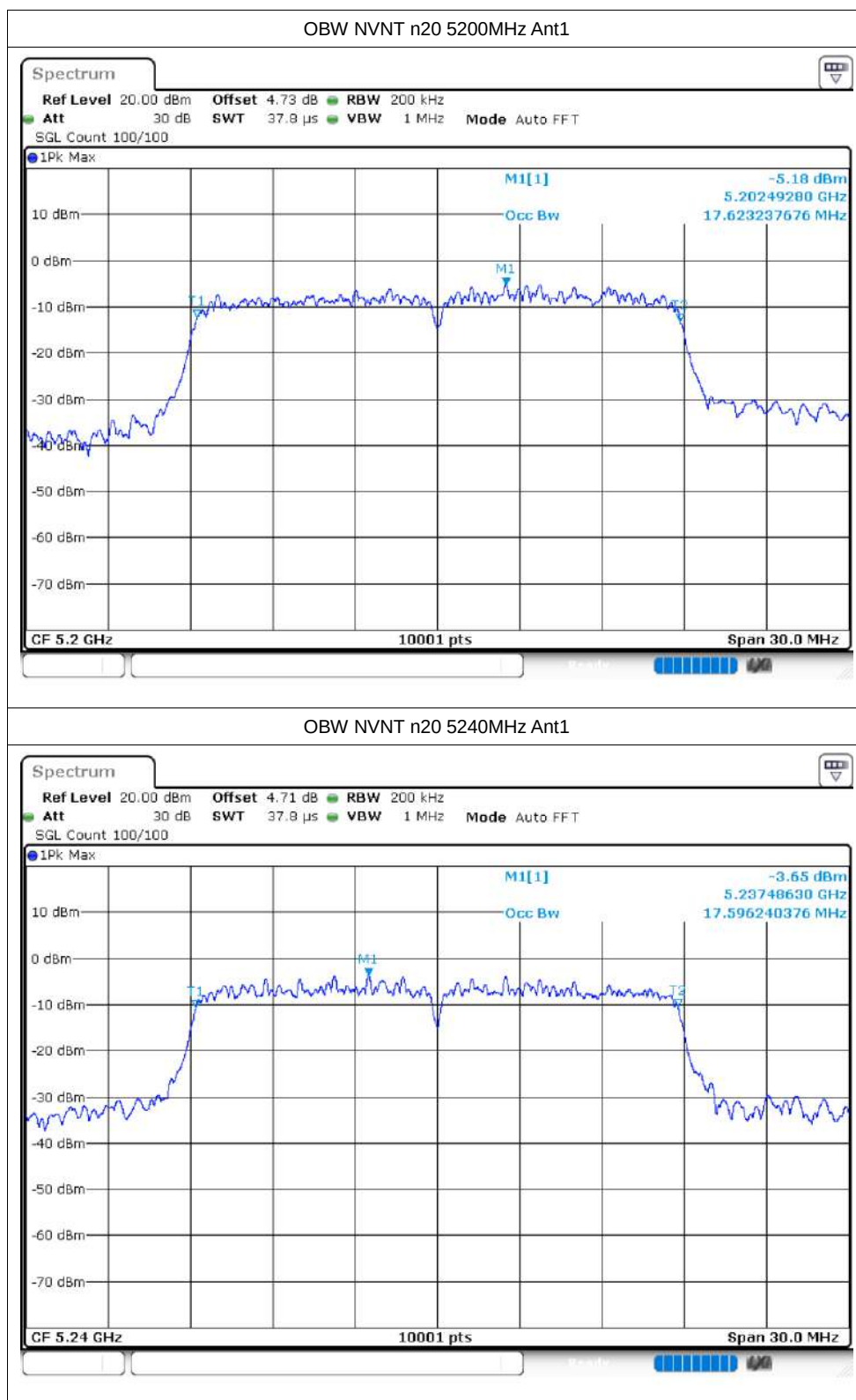
OBW NVNT a 5180MHz Ant1

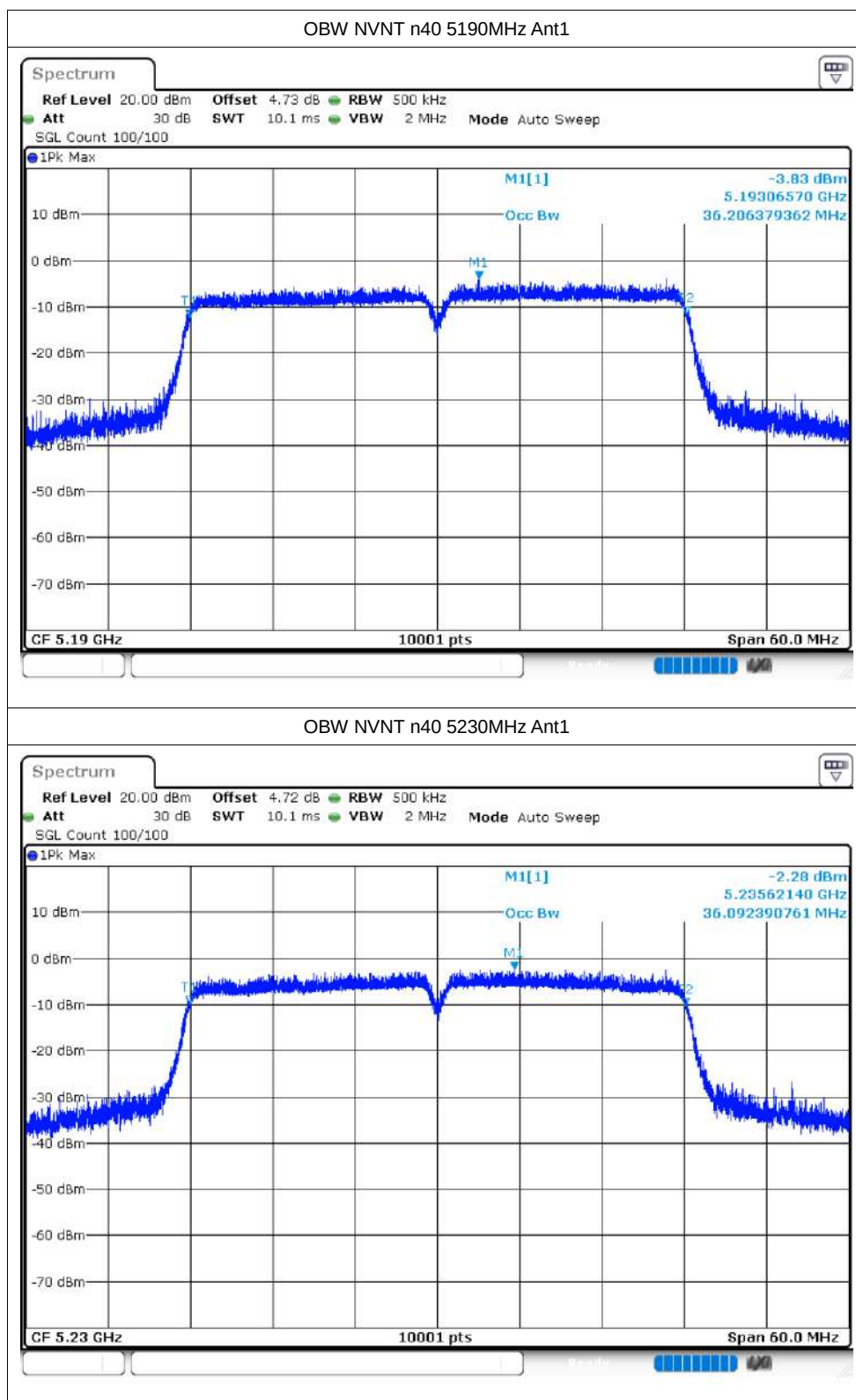


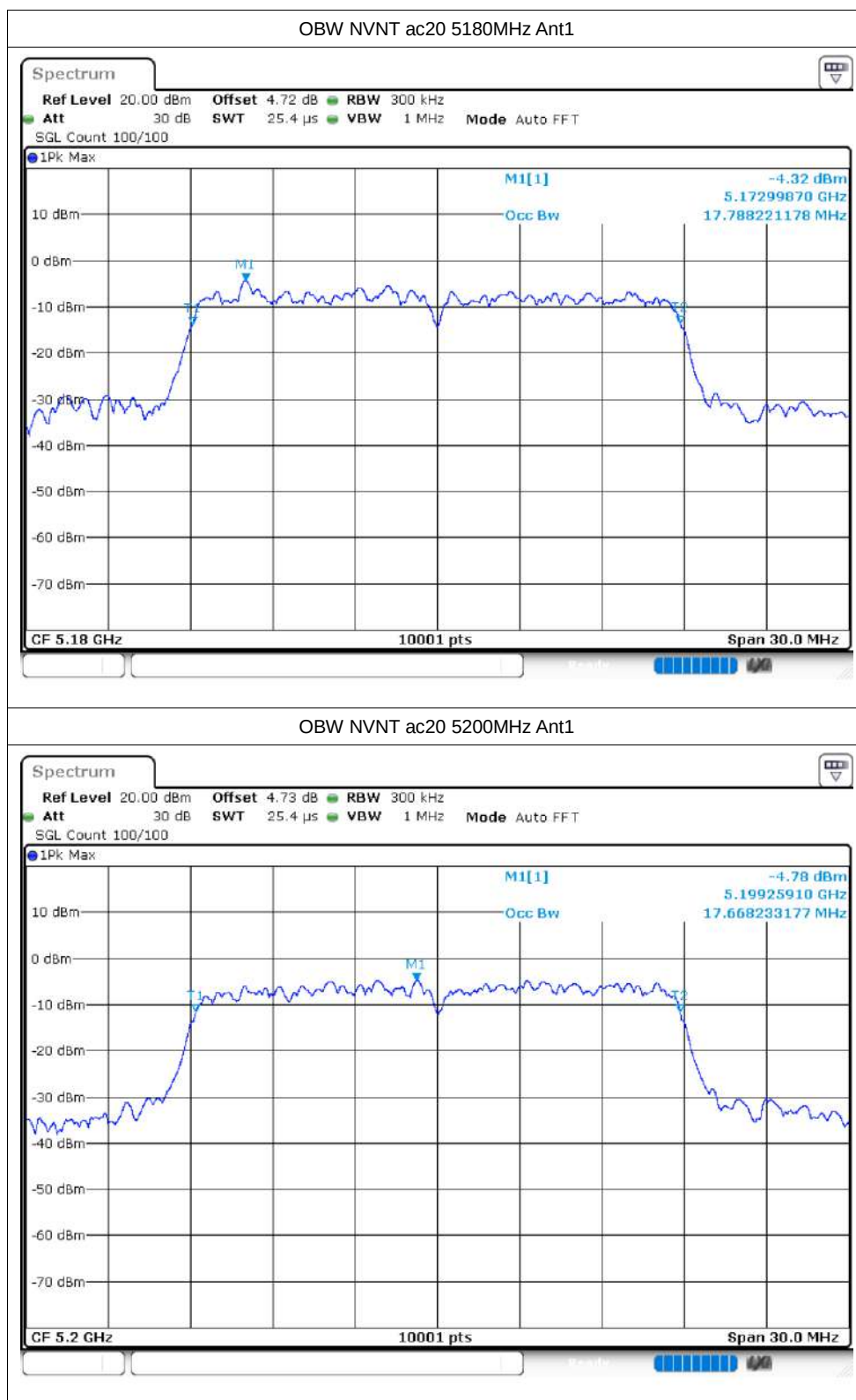
OBW NVNT a 5200MHz Ant1

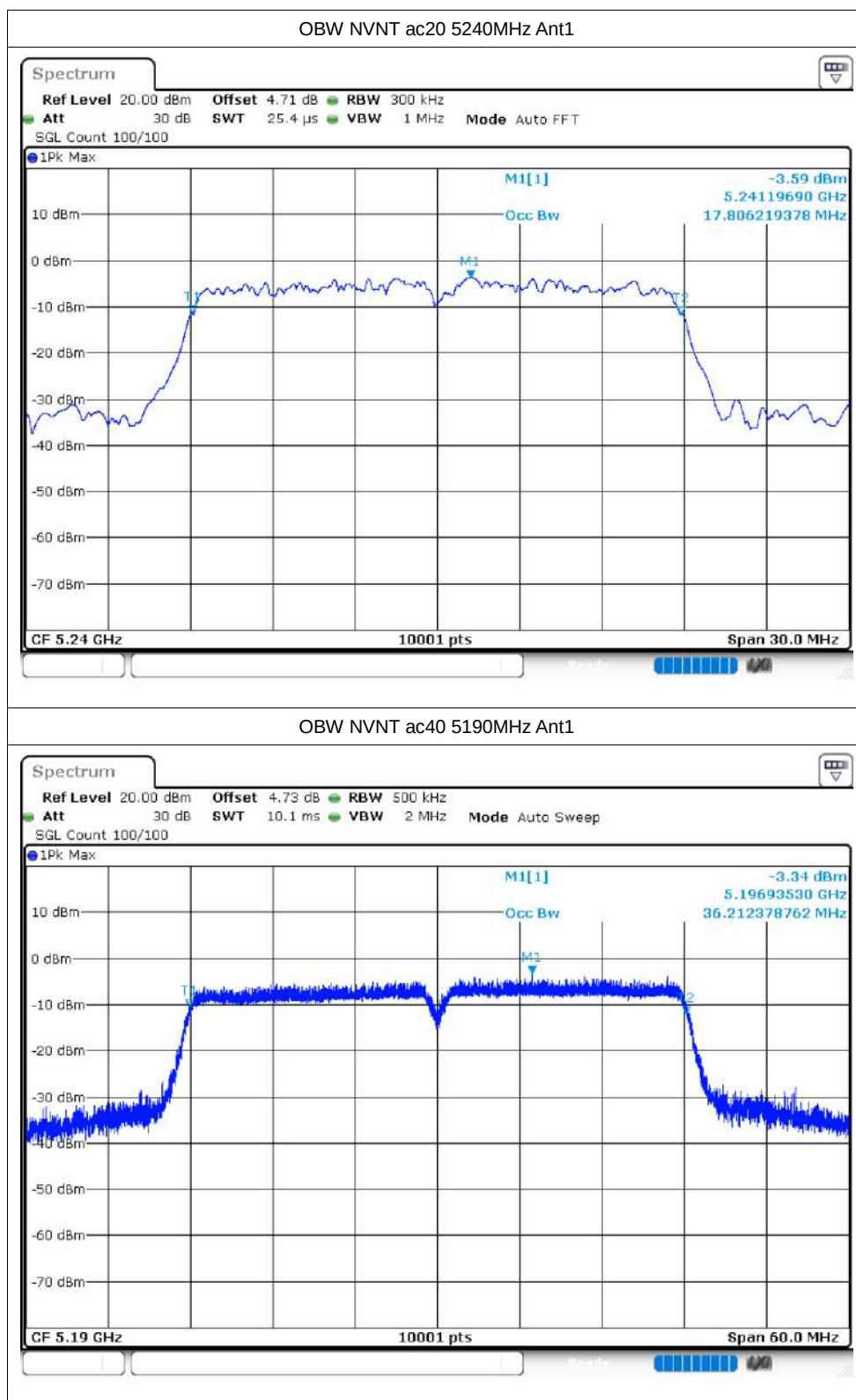


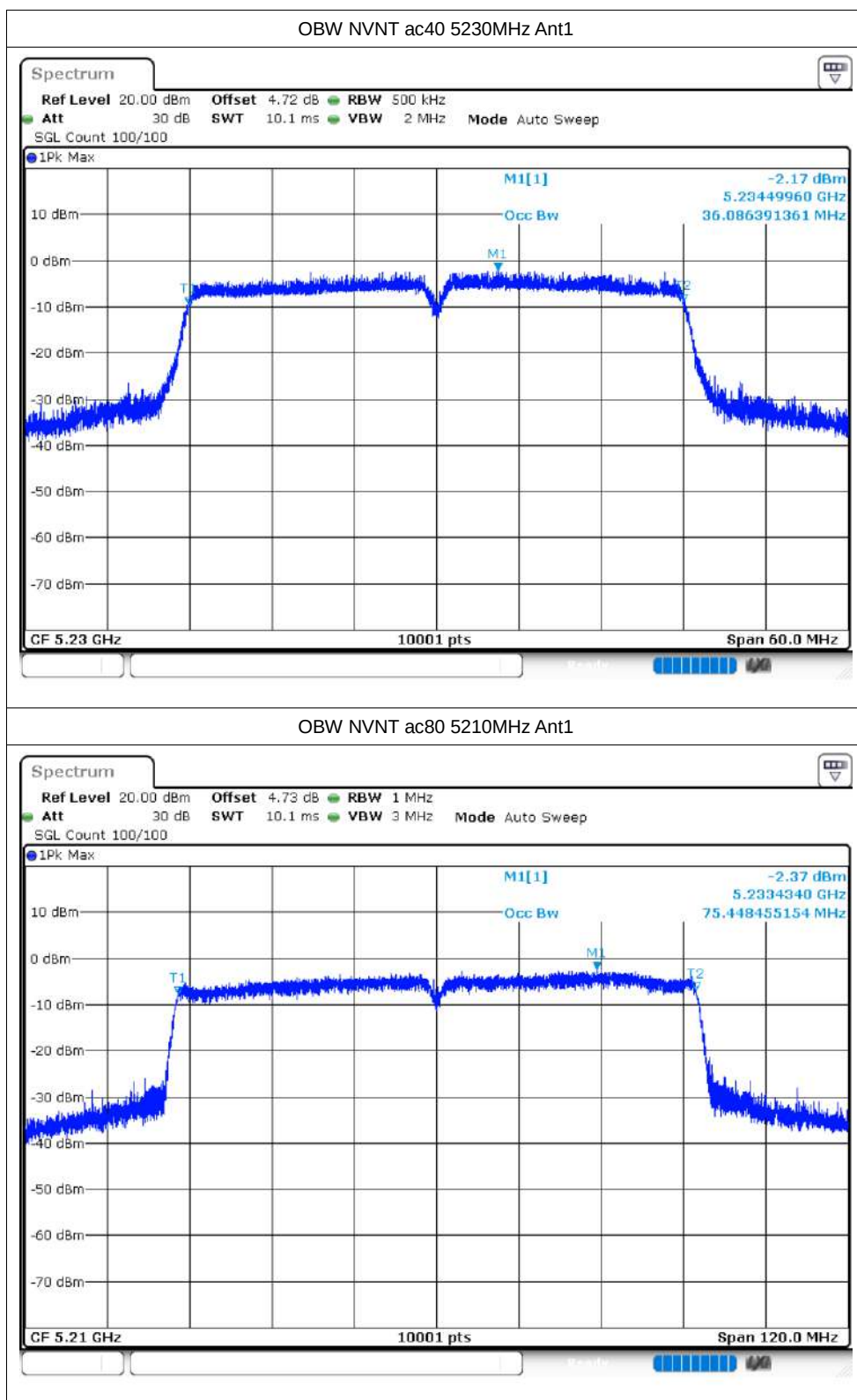










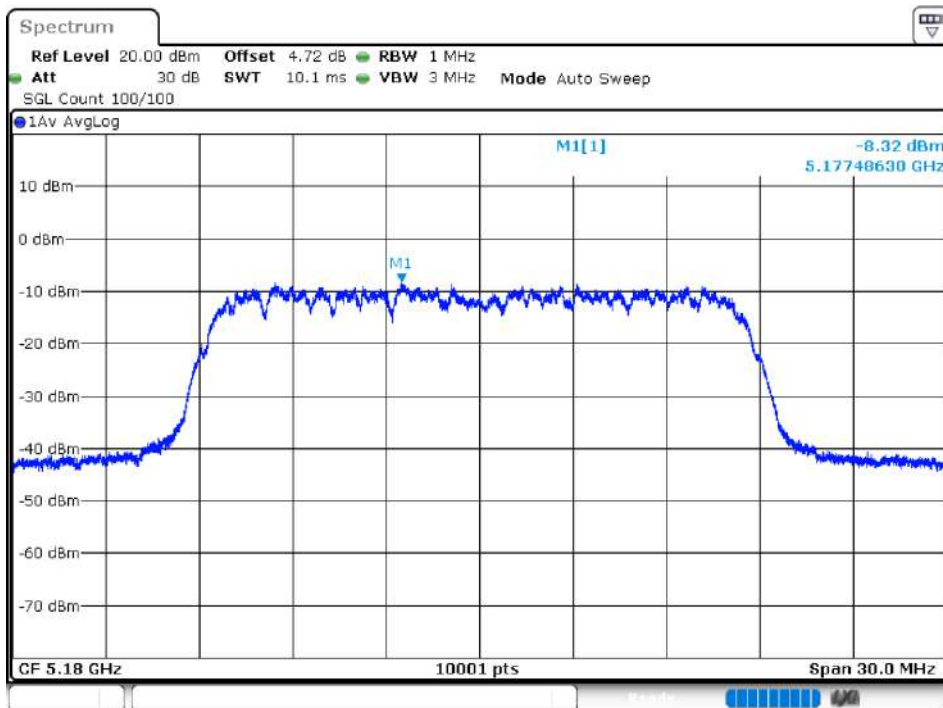


Maximum Power Spectral Density Level

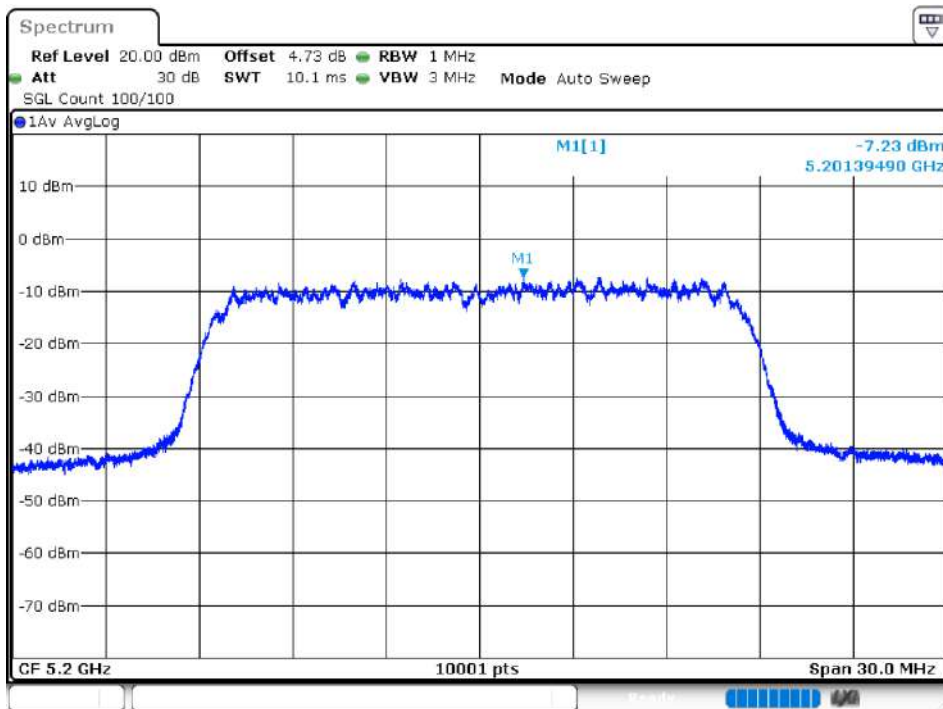
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-8.32	0.17	-8.15	11	Pass
NVNT	a	5200	Ant1	-7.23	0.16	-7.07	11	Pass
NVNT	a	5240	Ant1	-6.64	0.16	-6.48	11	Pass
NVNT	n20	5180	Ant1	-8.81	0.2	-8.61	11	Pass
NVNT	n20	5200	Ant1	-7.66	0.2	-7.46	11	Pass
NVNT	n20	5240	Ant1	-6.44	0.18	-6.26	11	Pass
NVNT	n40	5190	Ant1	-13.09	0.38	-12.71	11	Pass
NVNT	n40	5230	Ant1	-10.59	0.38	-10.21	11	Pass
NVNT	ac20	5180	Ant1	-8.38	0.19	-8.19	11	Pass
NVNT	ac20	5200	Ant1	-7.53	0.19	-7.34	11	Pass
NVNT	ac20	5240	Ant1	-6.18	0.19	-5.99	11	Pass
NVNT	ac40	5190	Ant1	-13.3	0.37	-12.93	11	Pass
NVNT	ac40	5230	Ant1	-11.48	0.37	-11.11	11	Pass
NVNT	ac80	5210	Ant1	-16.65	0.69	-15.96	11	Pass

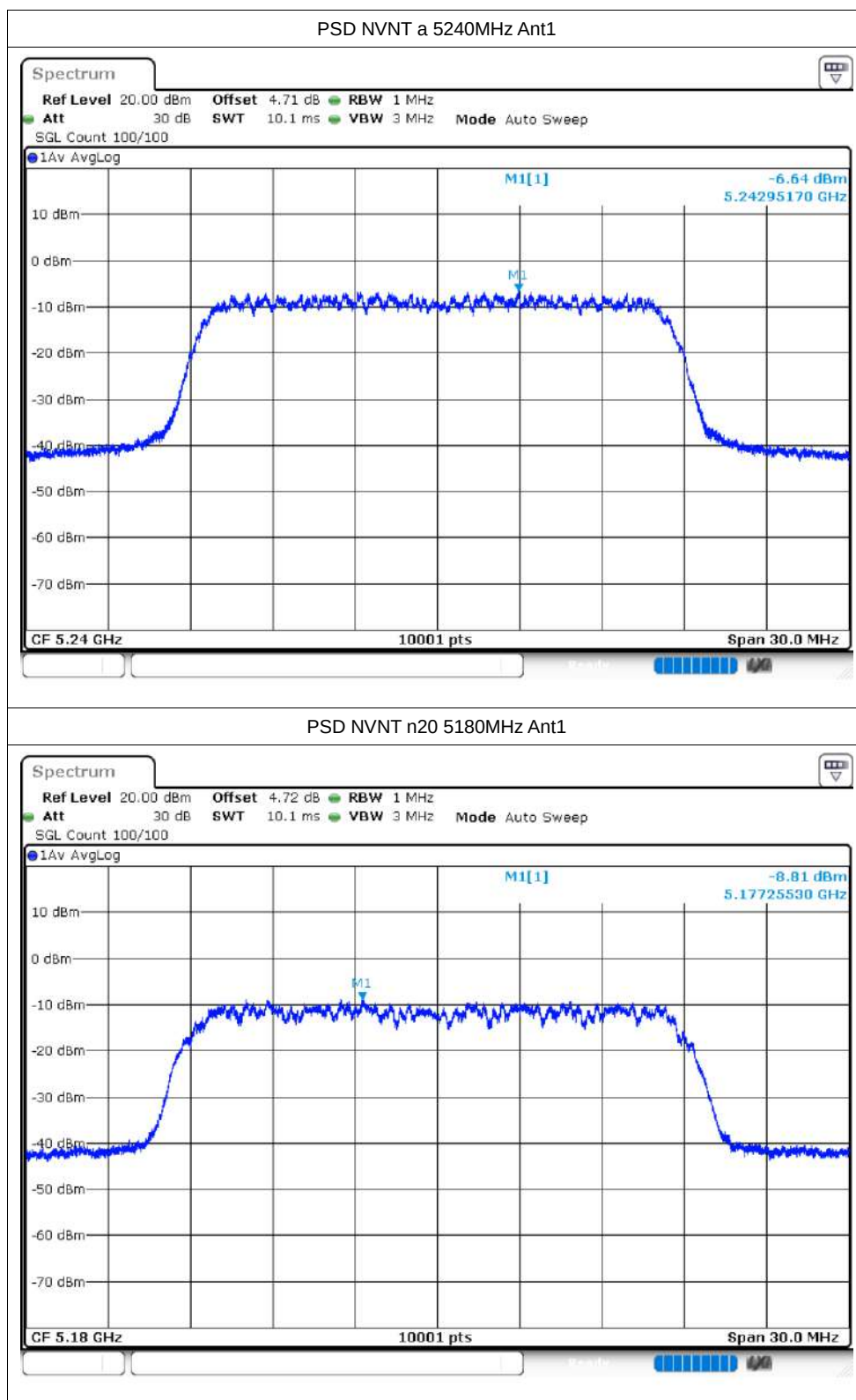
Test Graphs

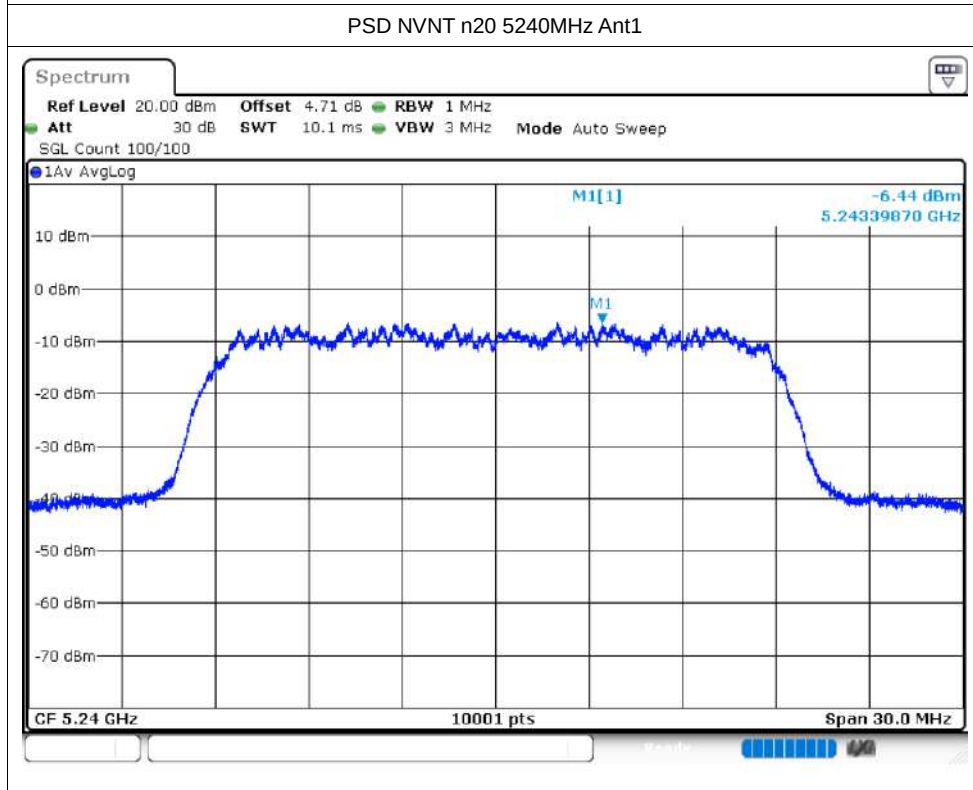
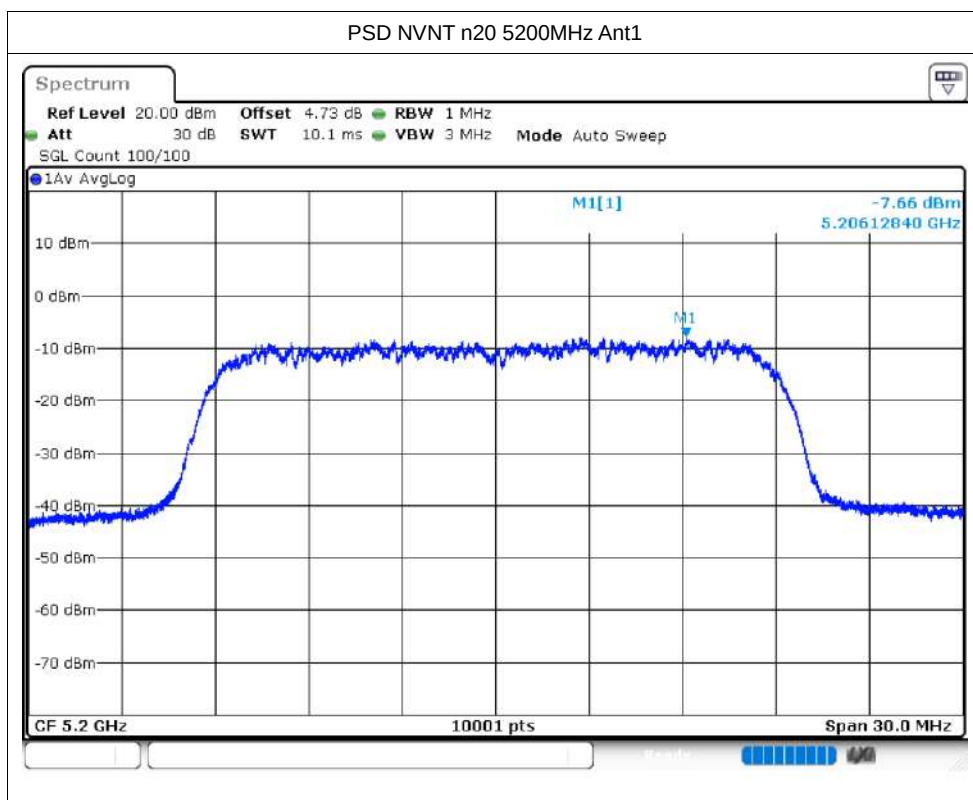
PSD NVNT a 5180MHz Ant1

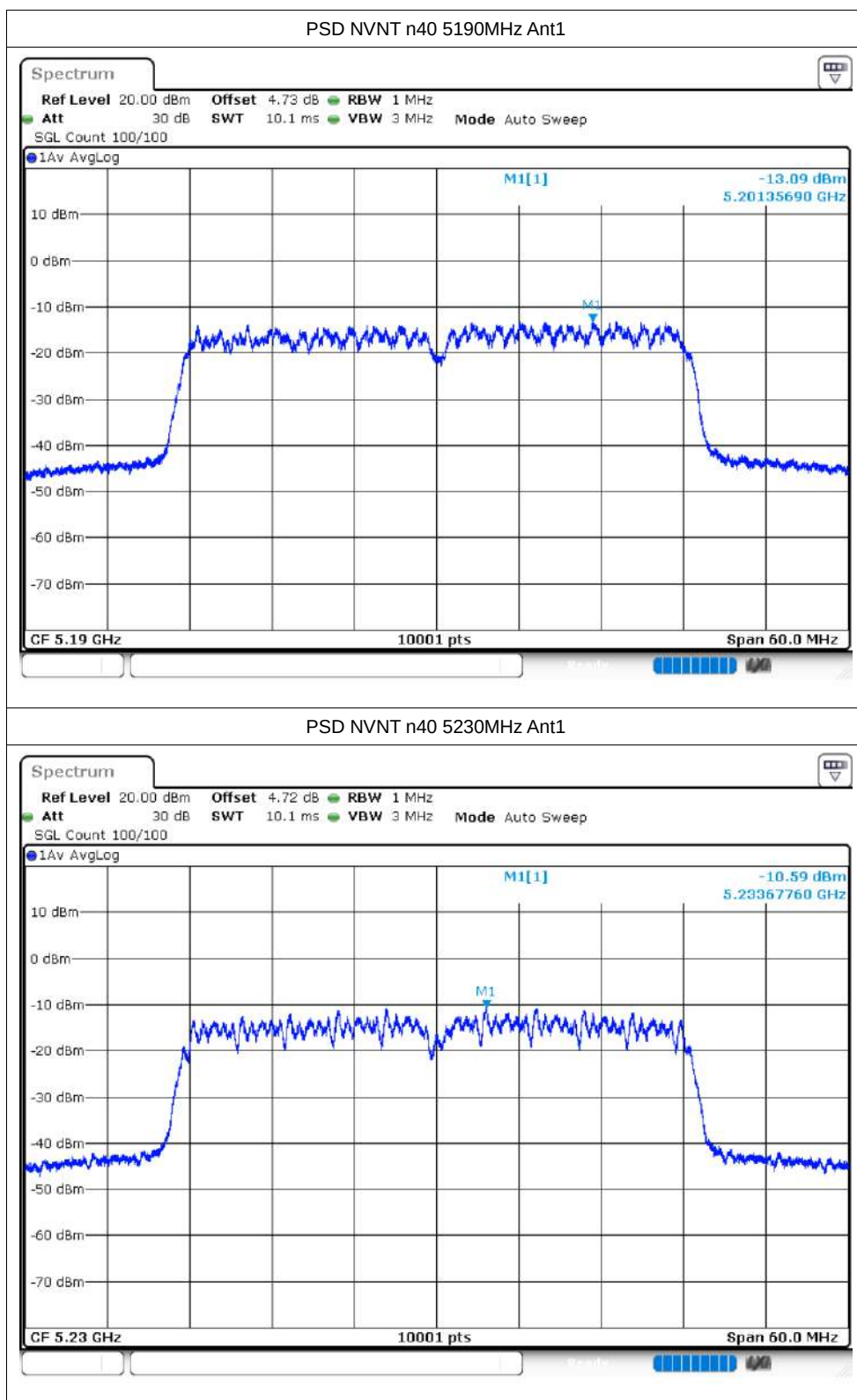


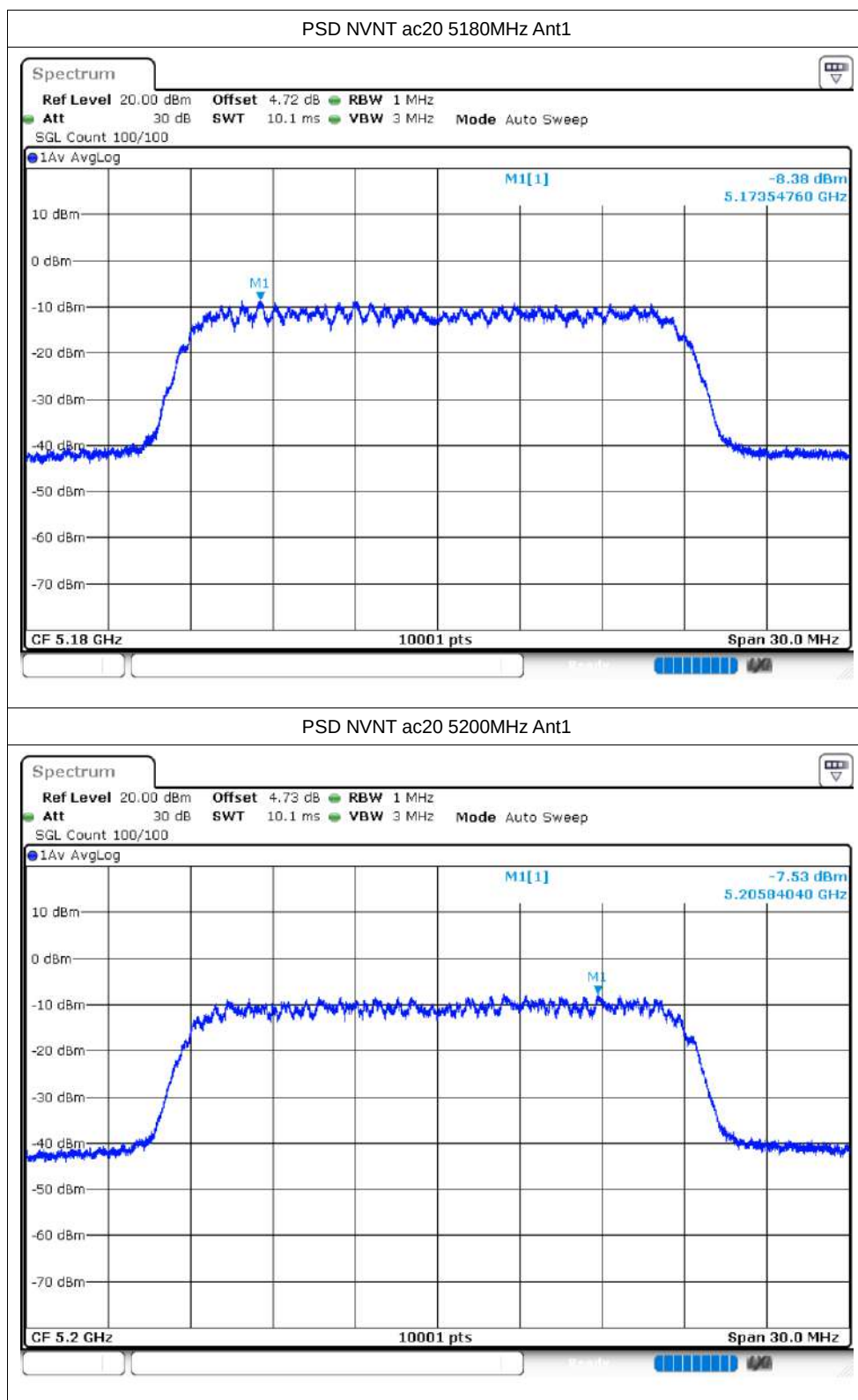
PSD NVNT a 5200MHz Ant1

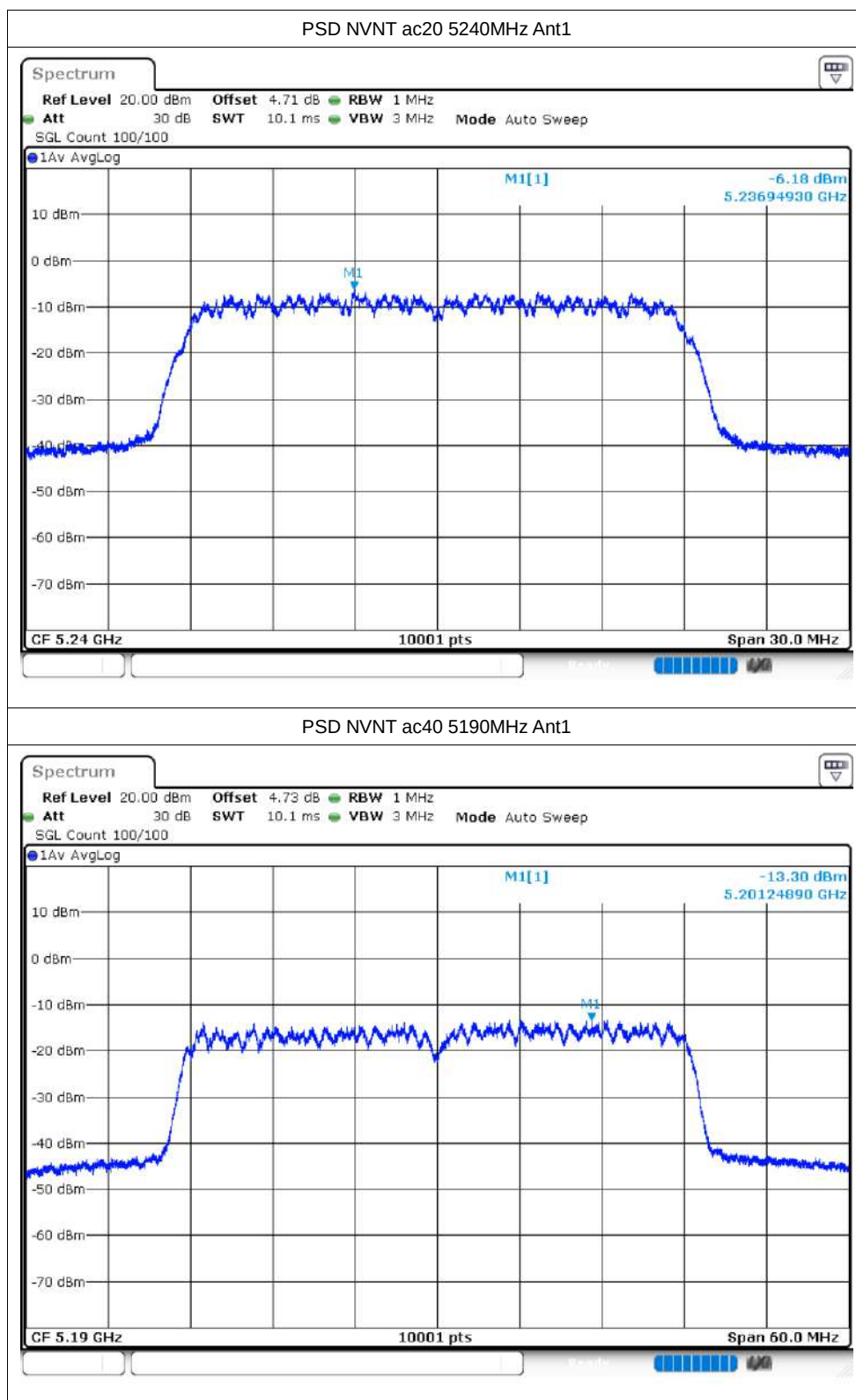


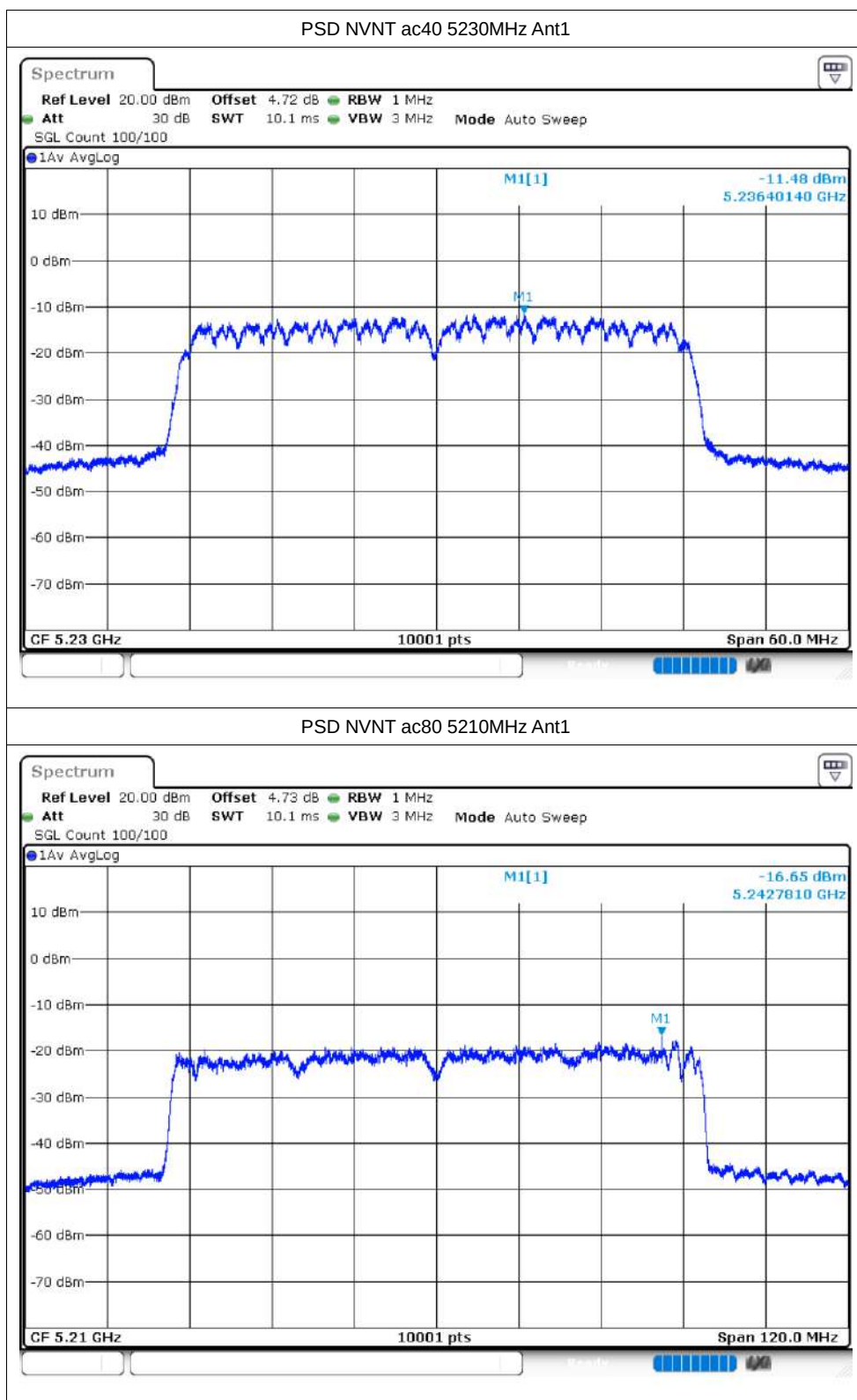










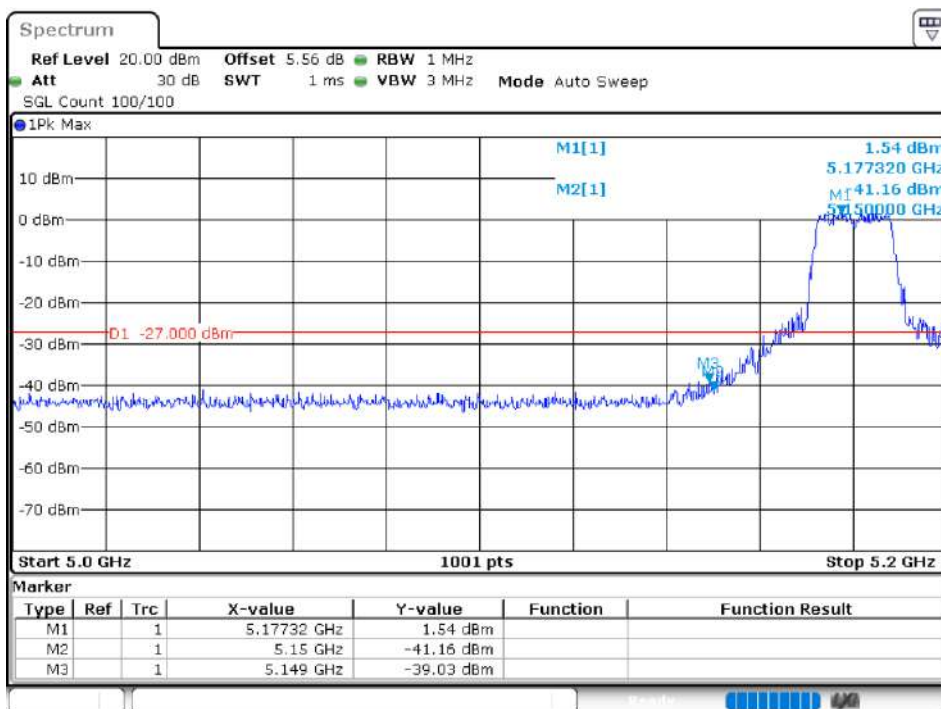


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-39.02	-27	Pass
NVNT	a	5240	Ant1	-41.18	-27	Pass
NVNT	n20	5180	Ant1	-37.66	-27	Pass
NVNT	n20	5240	Ant1	-41.6	-27	Pass
NVNT	n40	5190	Ant1	-35.04	-27	Pass
NVNT	n40	5230	Ant1	-41.76	-27	Pass
NVNT	ac20	5180	Ant1	-35.06	-27	Pass
NVNT	ac20	5240	Ant1	-39.53	-27	Pass
NVNT	ac40	5190	Ant1	-35.78	-27	Pass
NVNT	ac40	5230	Ant1	-41.51	-27	Pass
NVNT	ac80	5210	Ant1	-40.26	-27	Pass
NVNT	ac80	5210	Ant1	-34.97	-27	Pass

Test Graphs

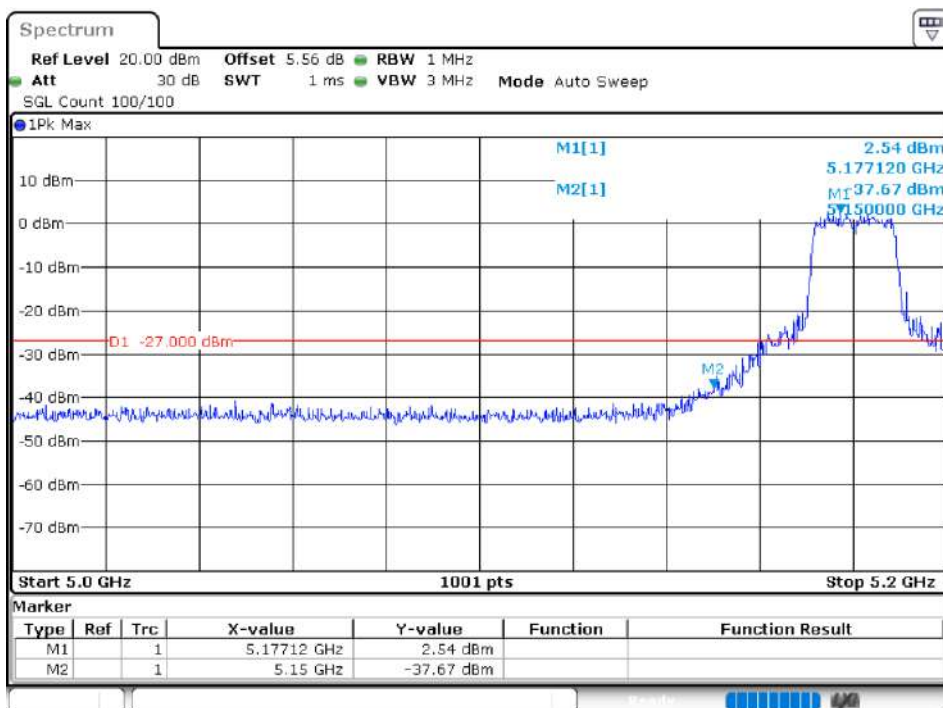
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1



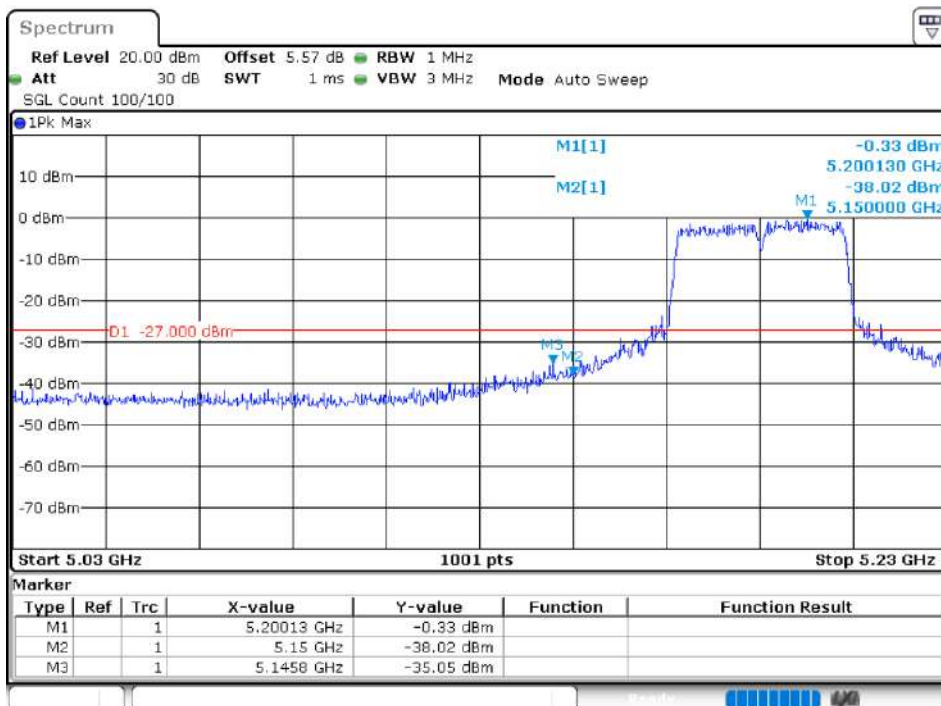
Band Edge NVNT n20 5180MHz Low Ant1



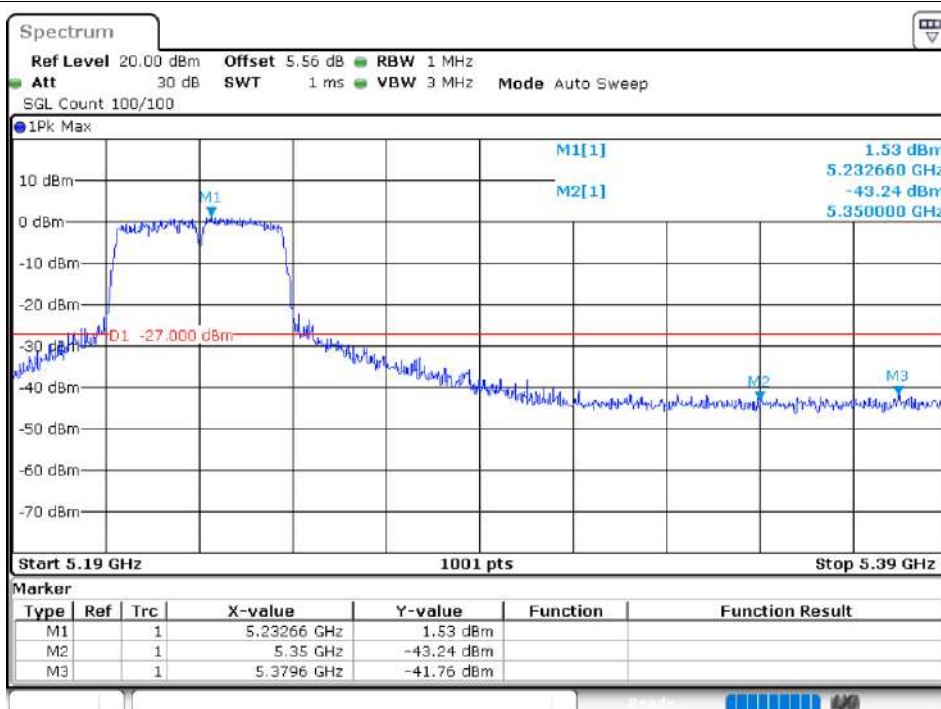
Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



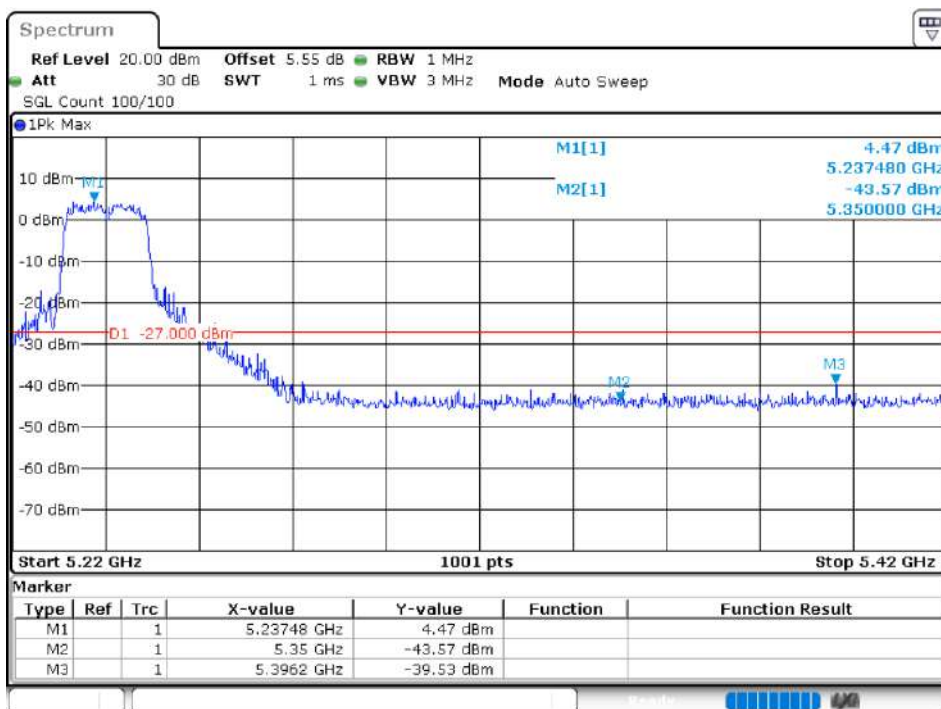
Band Edge NVNT n40 5230MHz High Ant1



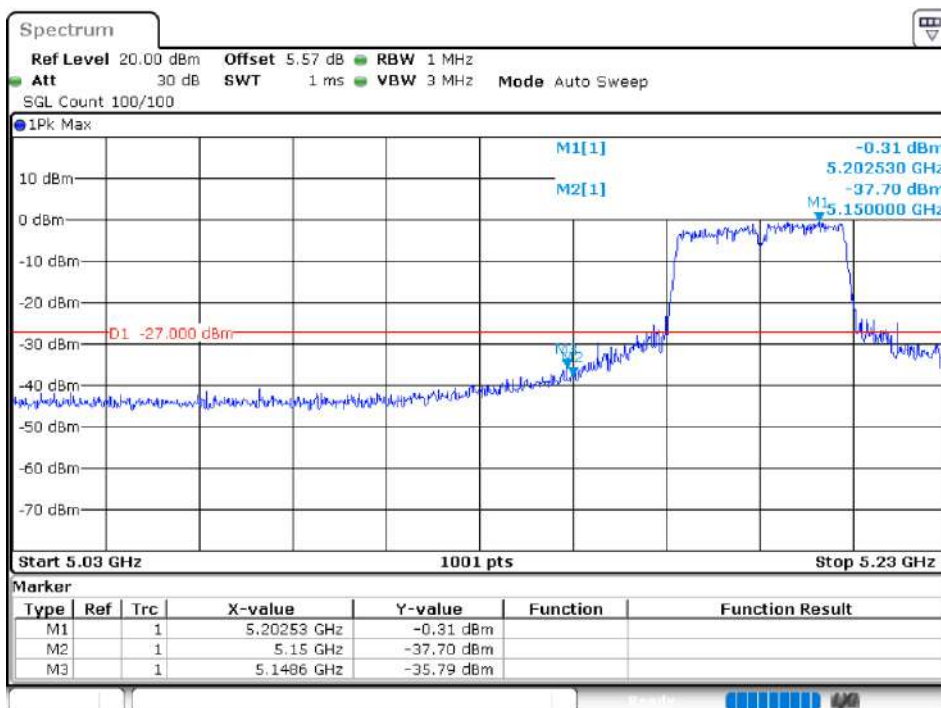
Band Edge NVNT ac20 5180MHz Low Ant1



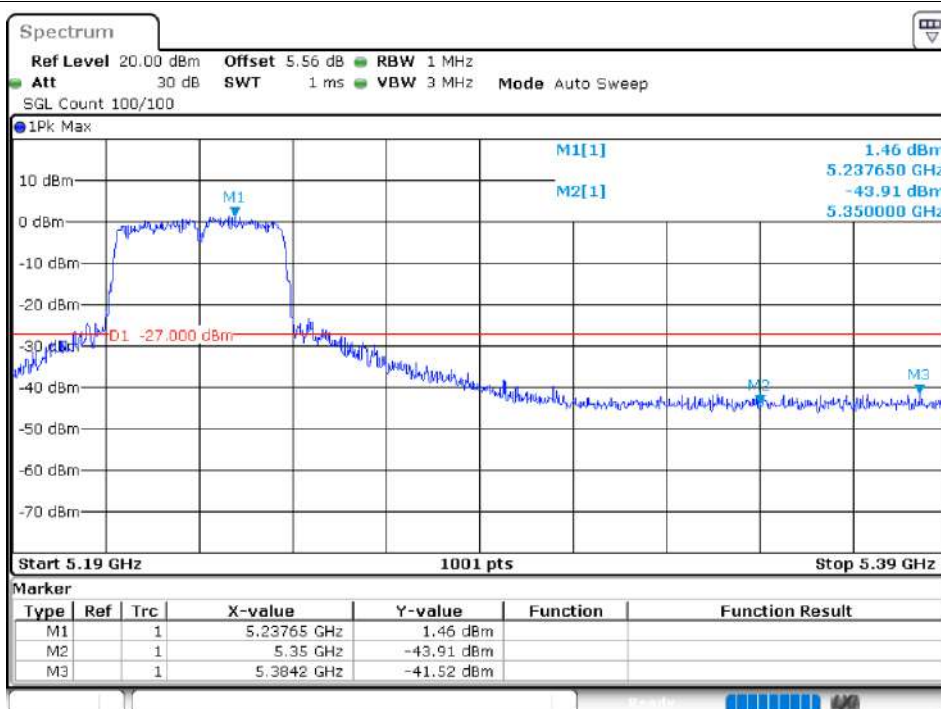
Band Edge NVNT ac20 5240MHz High Ant1



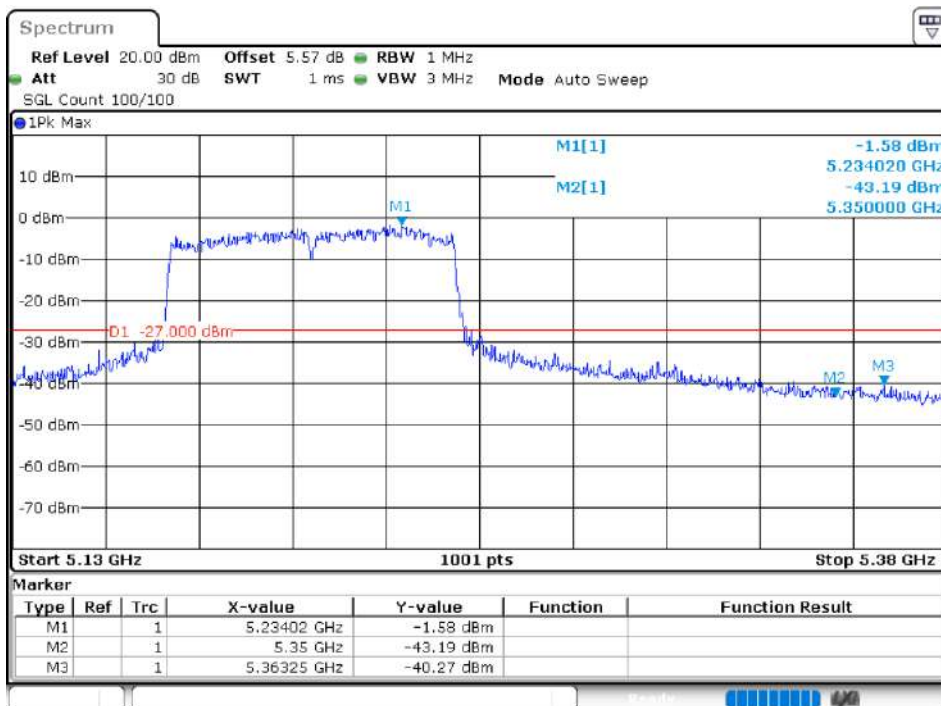
Band Edge NVNT ac40 5190MHz Low Ant1



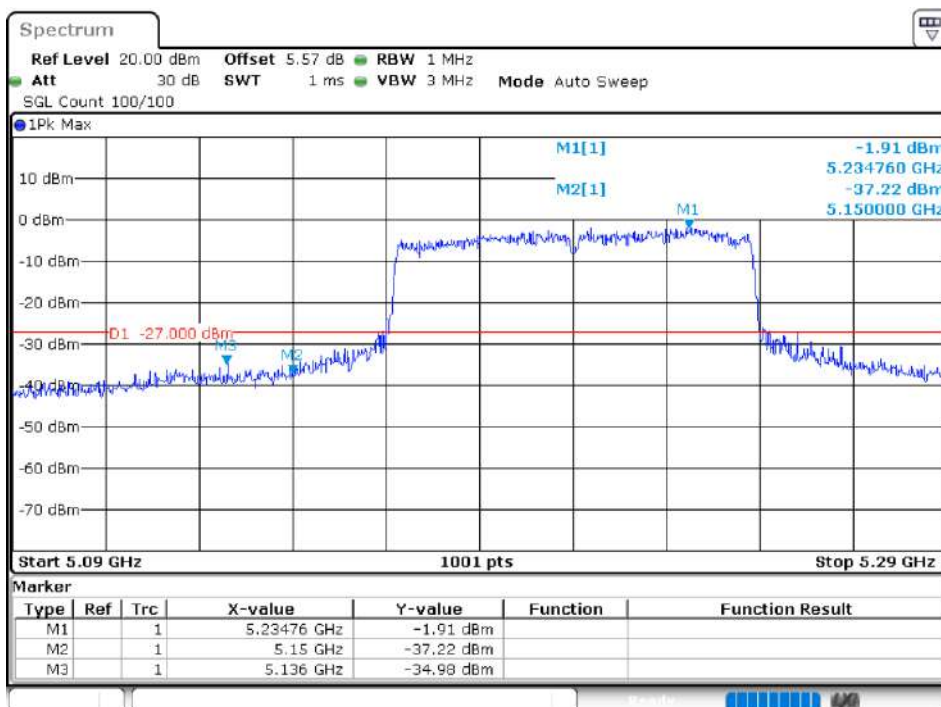
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

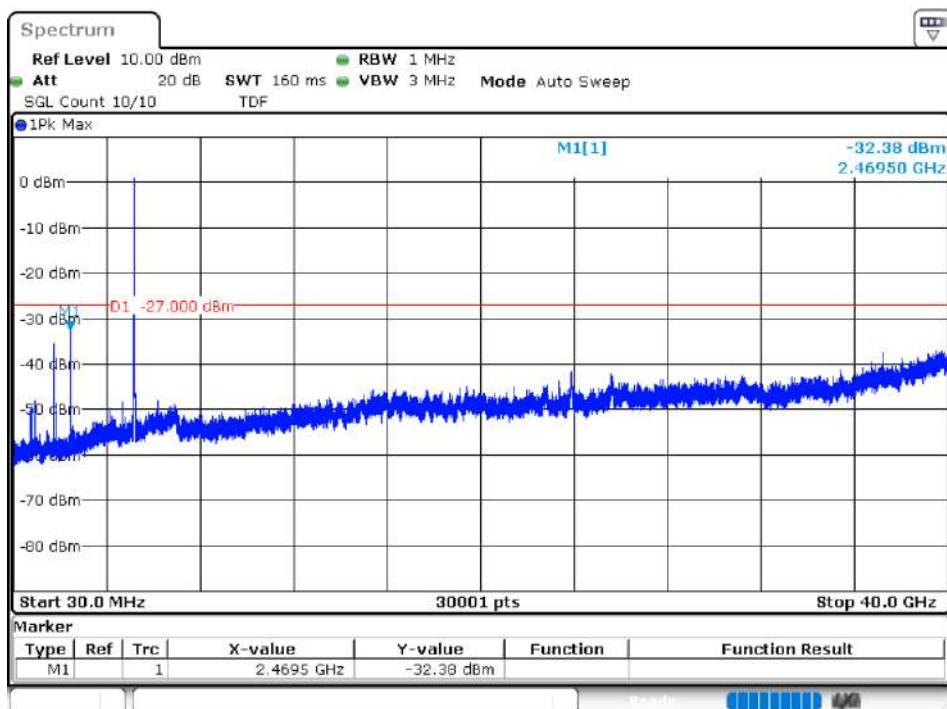


Conducted RF Spurious Emission

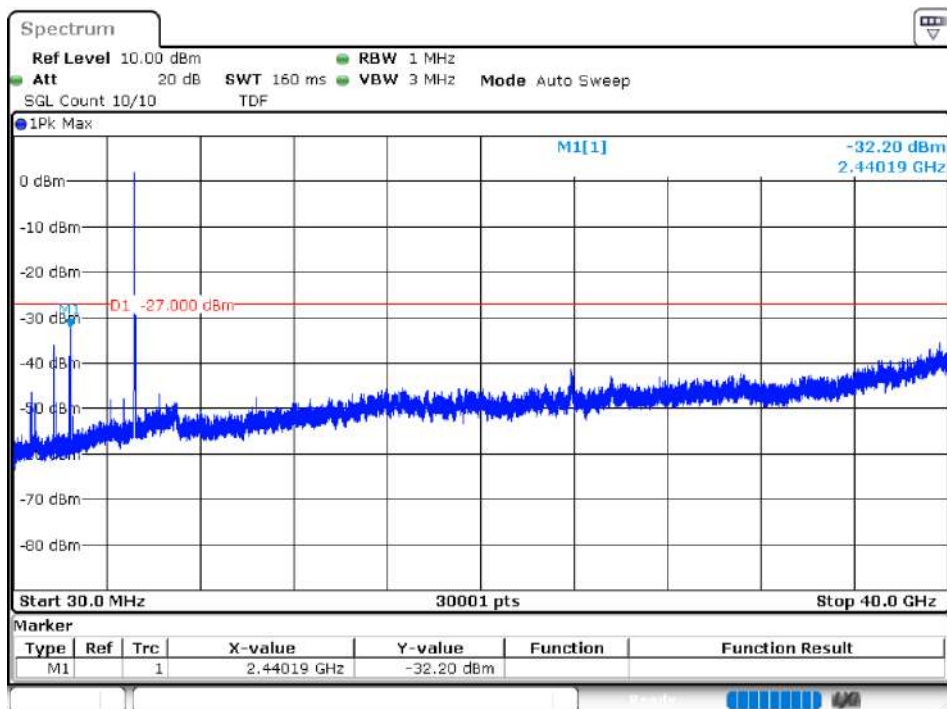
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-32.38	-27	Pass
NVNT	a	5200	Ant1	-32.2	-27	Pass
NVNT	a	5240	Ant1	-35.76	-27	Pass
NVNT	n20	5180	Ant1	-27.58	-27	Pass
NVNT	n20	5200	Ant1	-27.24	-27	Pass
NVNT	n20	5240	Ant1	-27.11	-27	Pass
NVNT	n40	5190	Ant1	-27.17	-27	Pass
NVNT	n40	5230	Ant1	-27.19	-27	Pass
NVNT	ac20	5180	Ant1	-27.35	-27	Pass
NVNT	ac20	5200	Ant1	-27.04	-27	Pass
NVNT	ac20	5240	Ant1	-27.25	-27	Pass
NVNT	ac40	5190	Ant1	-27.16	-27	Pass
NVNT	ac40	5230	Ant1	-27.1	-27	Pass
NVNT	ac80	5210	Ant1	-27.17	-27	Pass

Test Graphs

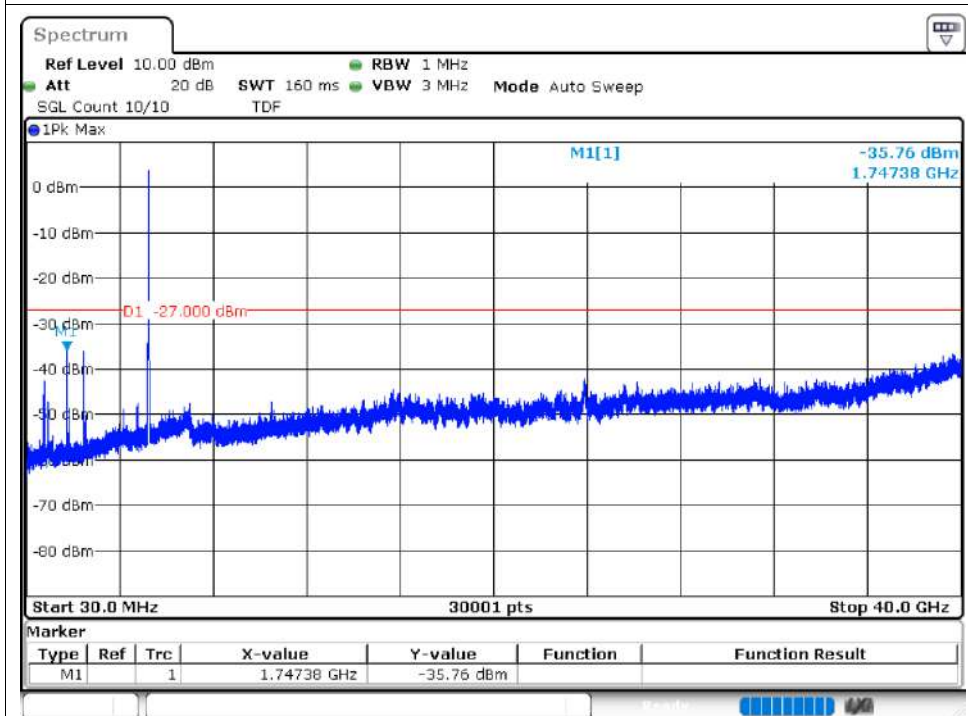
Tx. Spurious NVNT a 5180MHz Ant1 Emission



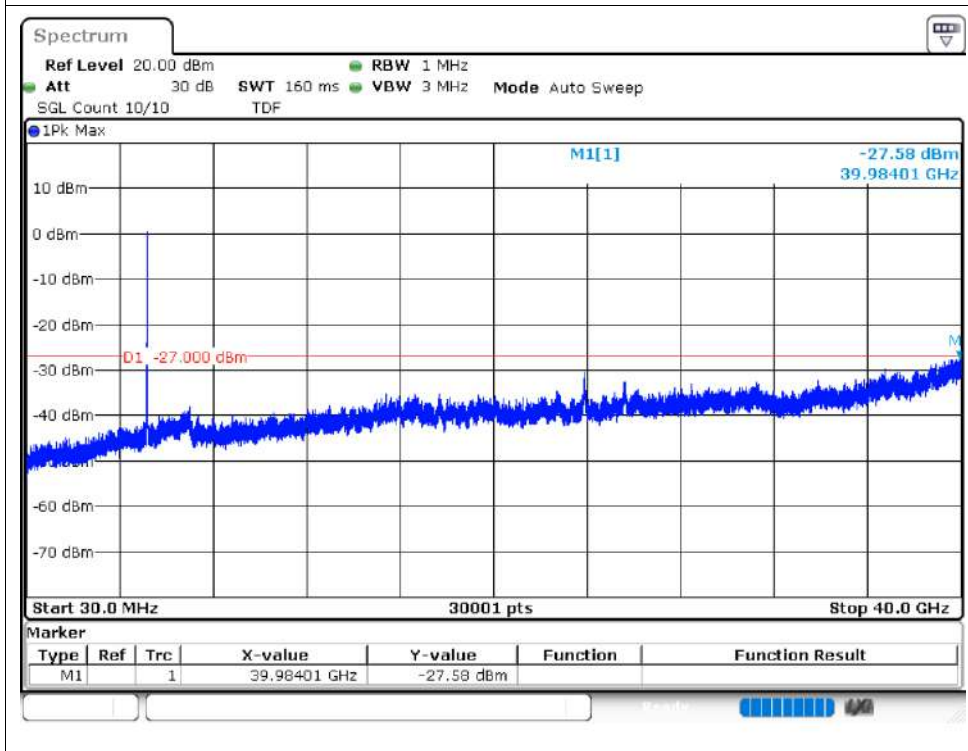
Tx. Spurious NVNT a 5200MHz Ant1 Emission



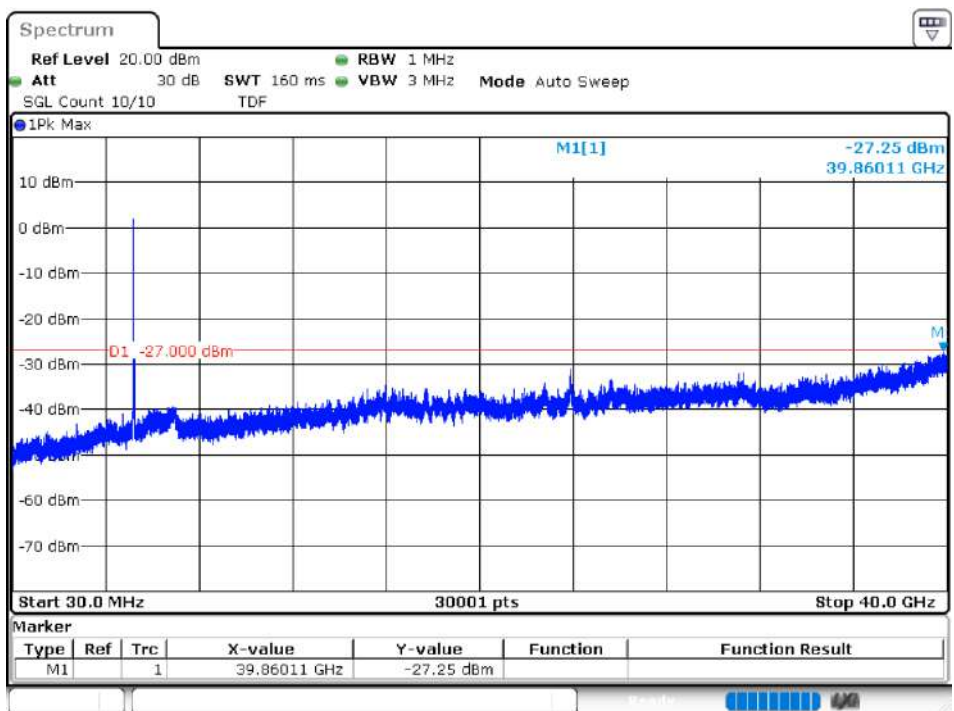
Tx. Spurious NVNT a 5240MHz Ant1 Emission



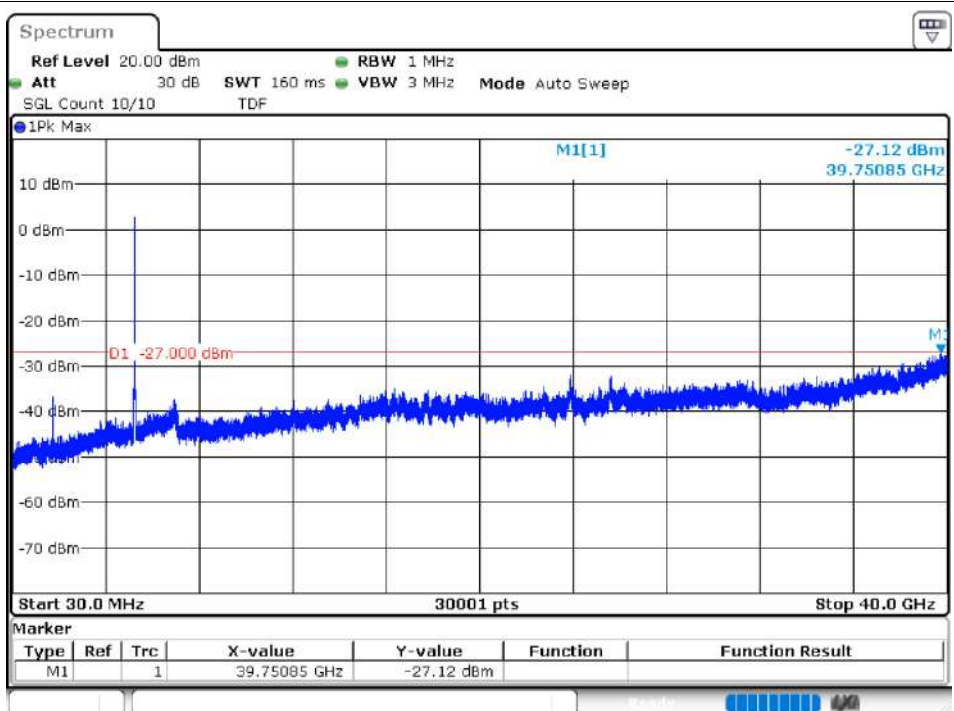
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



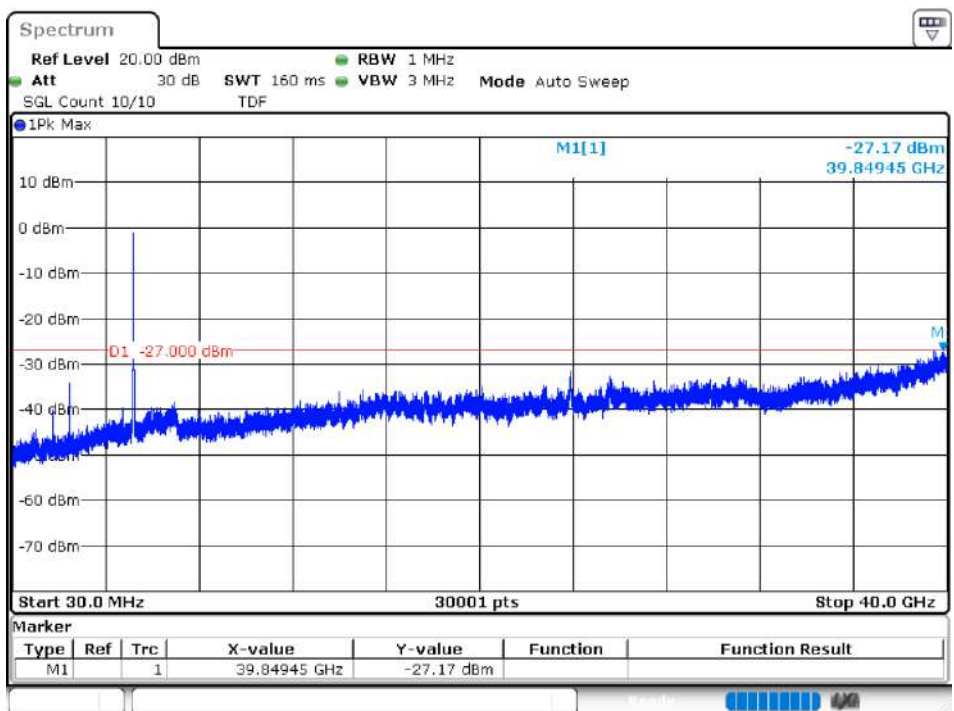
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



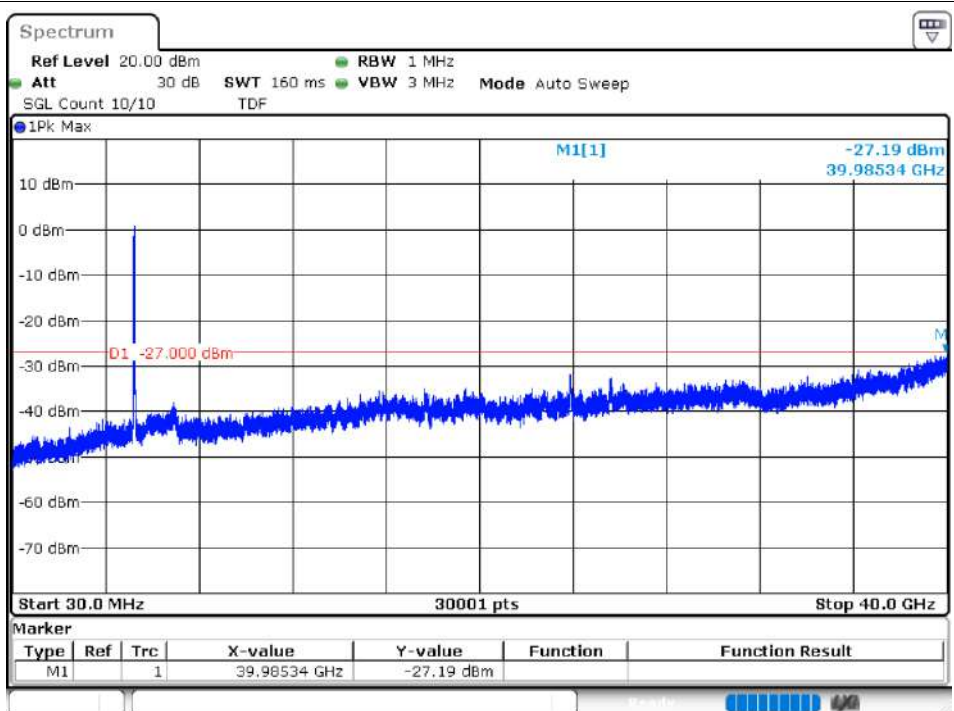
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



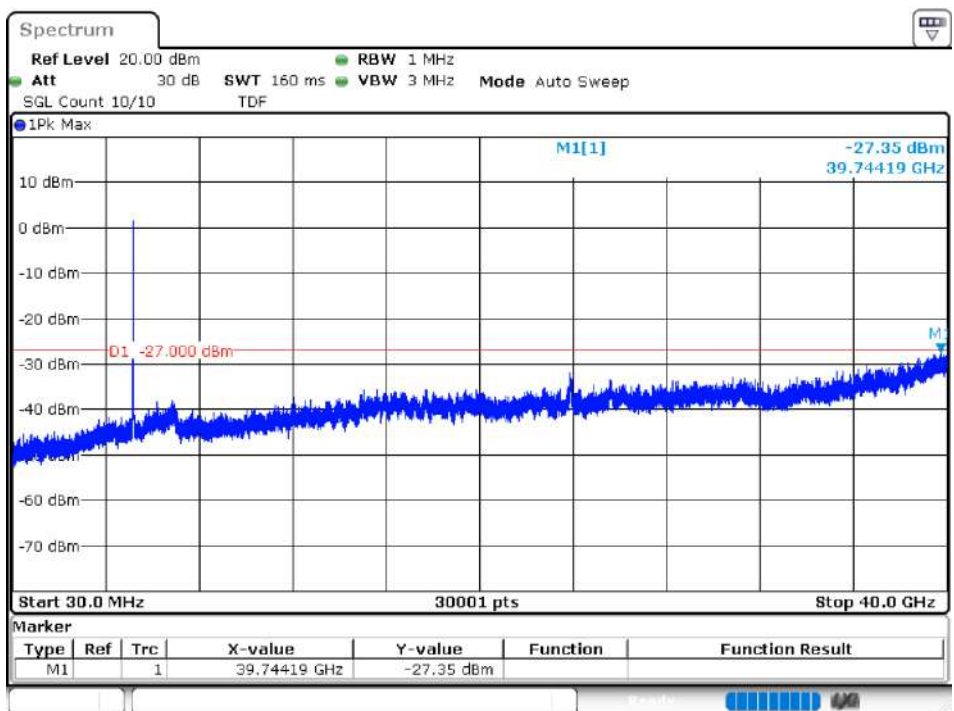
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



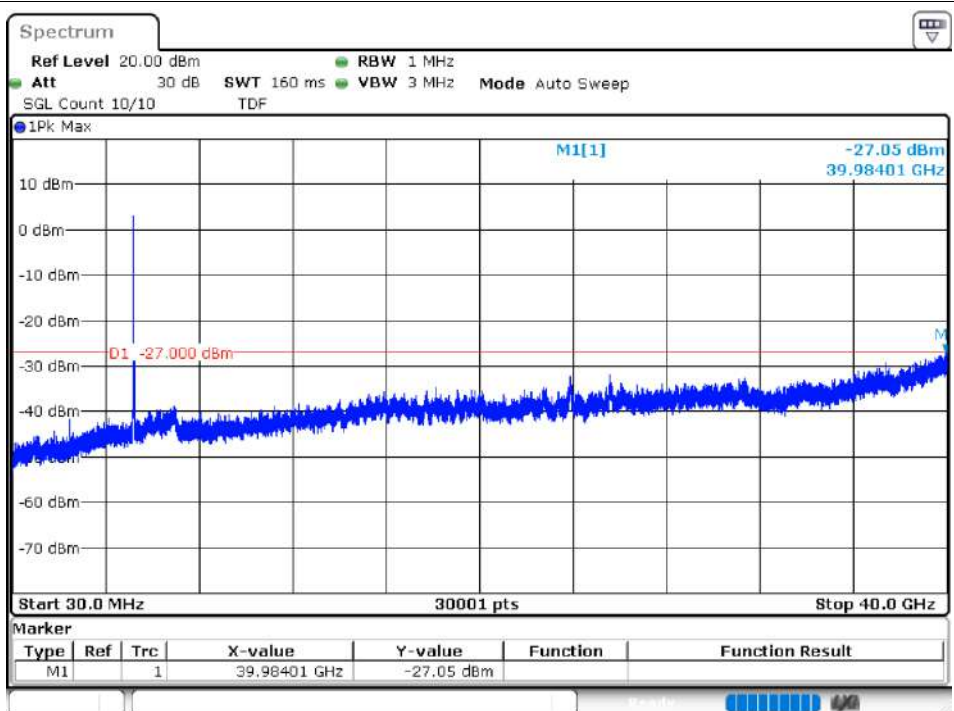
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



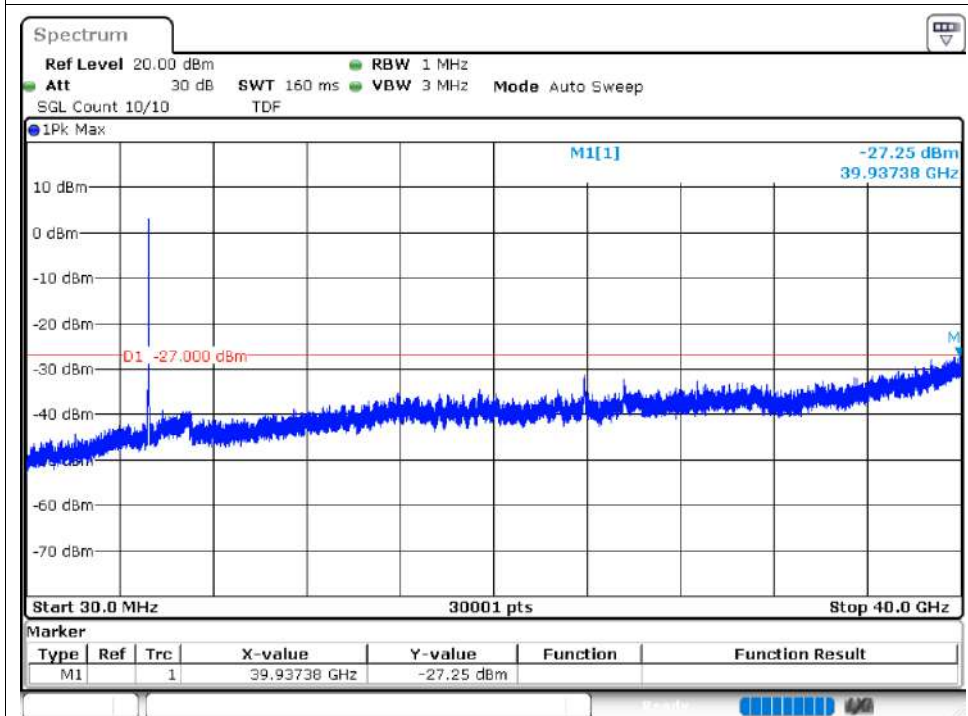
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



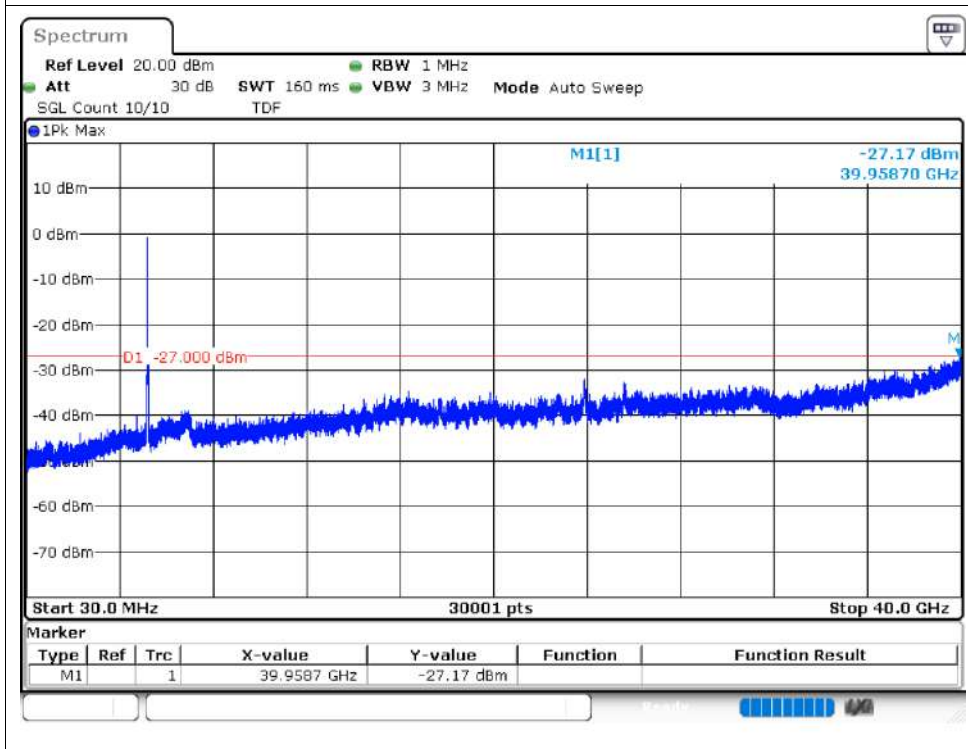
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission

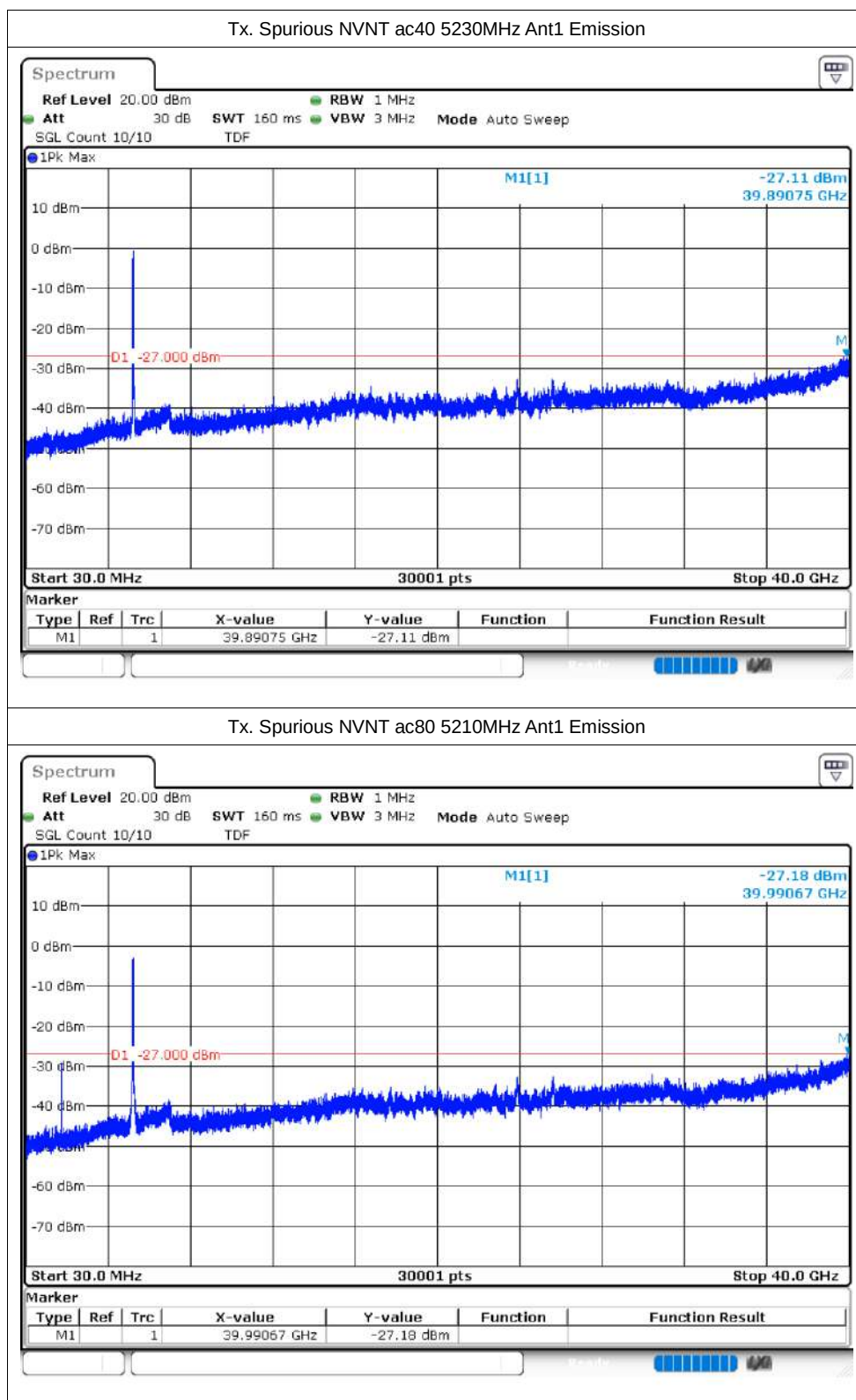


Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



Tx. Spurious NVNT ac40 5190MHz Ant1 Emission





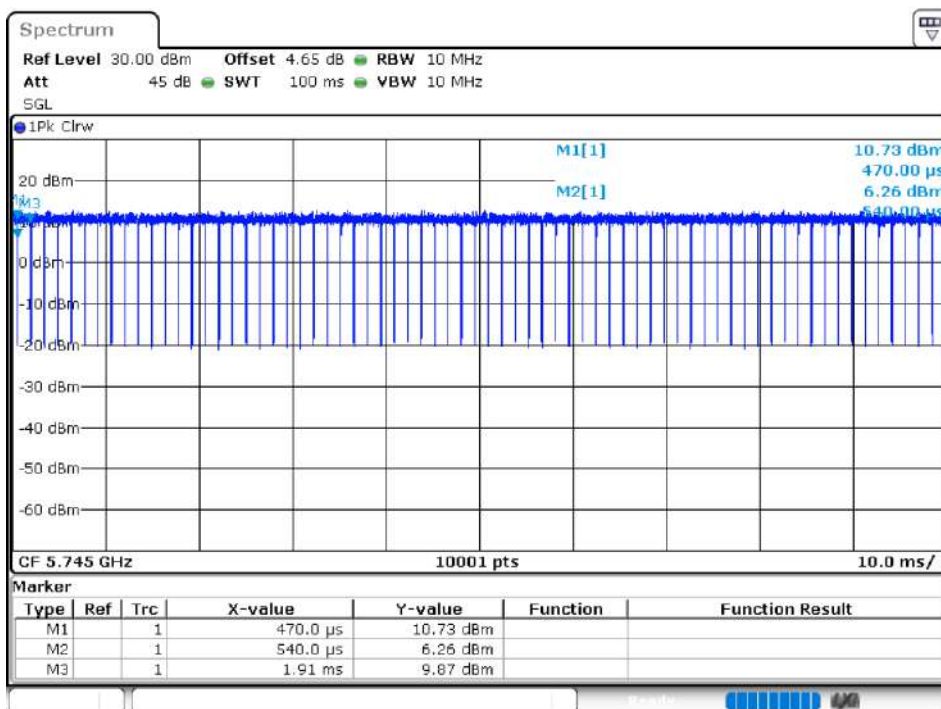
WIFI 5.8G

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	95.34	0.21	0.73
NVNT	a	5785	Ant1	95.55	0.2	0.73
NVNT	a	5825	Ant1	99.46	0.02	0.7
NVNT	n20	5745	Ant1	94.81	0.23	0.86
NVNT	n20	5785	Ant1	94.77	0.23	0.87
NVNT	n20	5825	Ant1	94.82	0.23	0.87
NVNT	n40	5755	Ant1	90.25	0.45	1.72
NVNT	n40	5795	Ant1	98.41	0.07	33.33
NVNT	ac20	5745	Ant1	94.64	0.24	0.86
NVNT	ac20	5785	Ant1	94.76	0.23	0.86
NVNT	ac20	5825	Ant1	94.69	0.24	0.87
NVNT	ac40	5755	Ant1	88.18	0.55	1.75
NVNT	ac40	5795	Ant1	90.25	0.45	1.72
NVNT	ac80	5775	Ant1	82.06	0.86	3.33

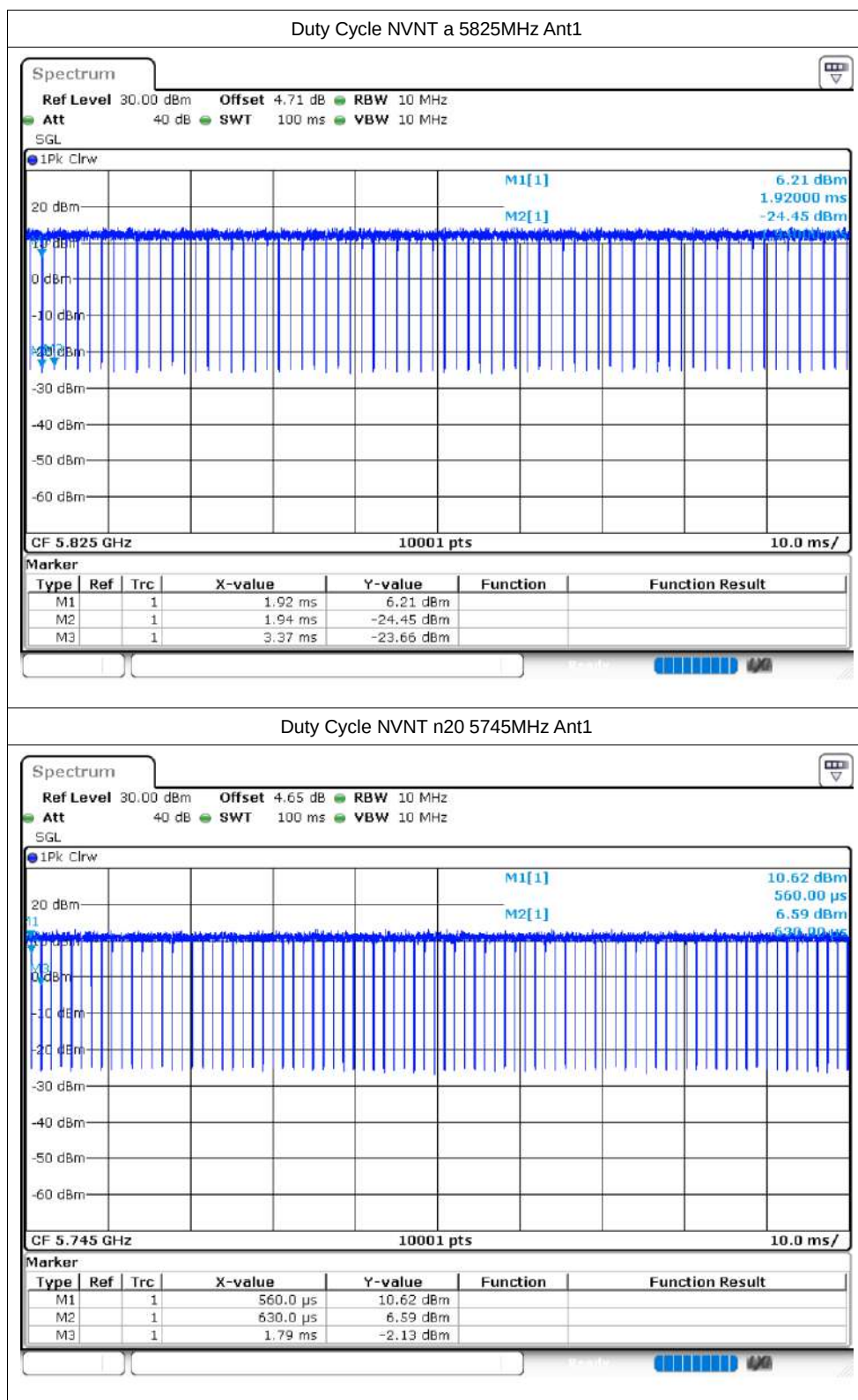
Test Graphs

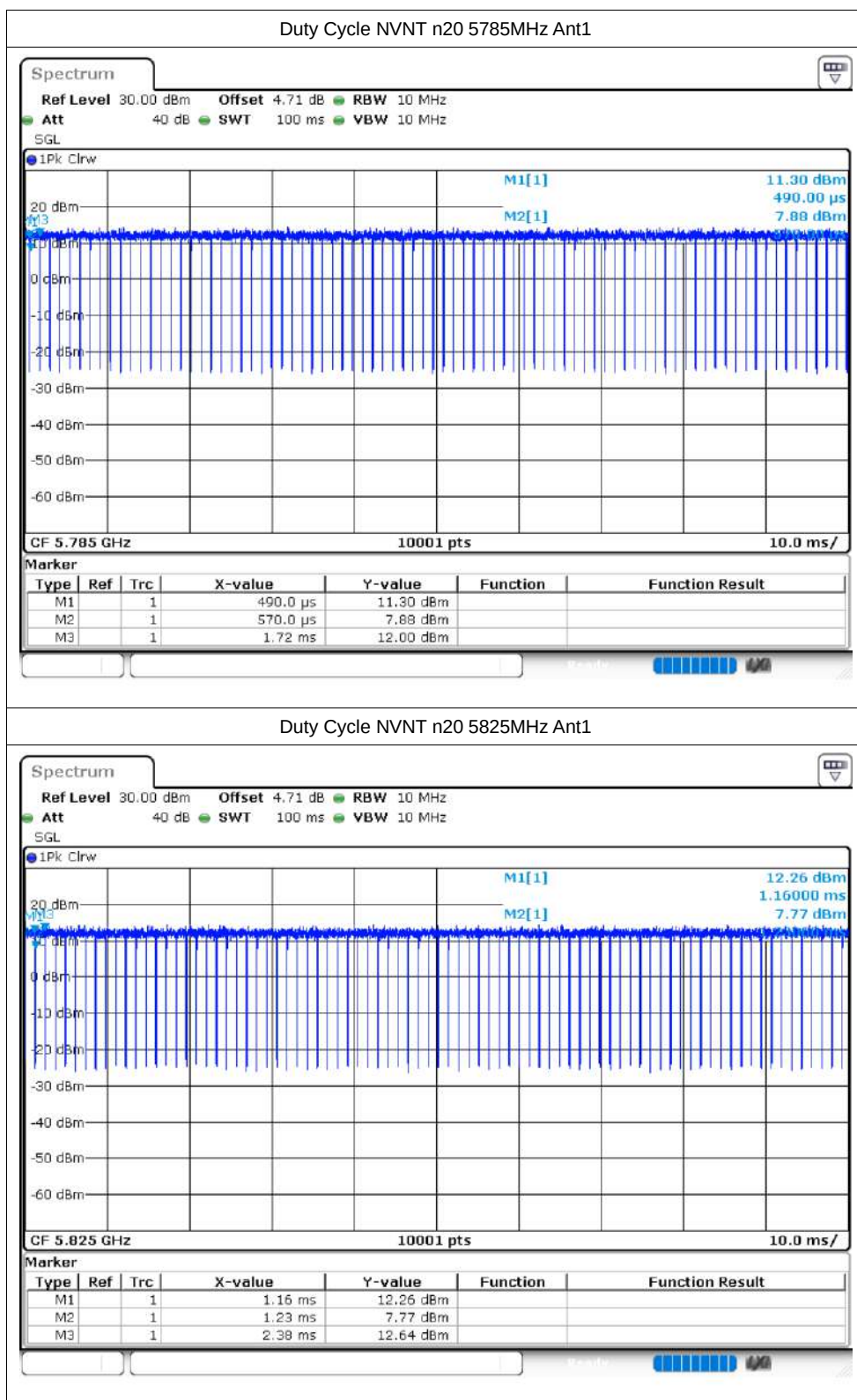
Duty Cycle NVNT a 5745MHz Ant1

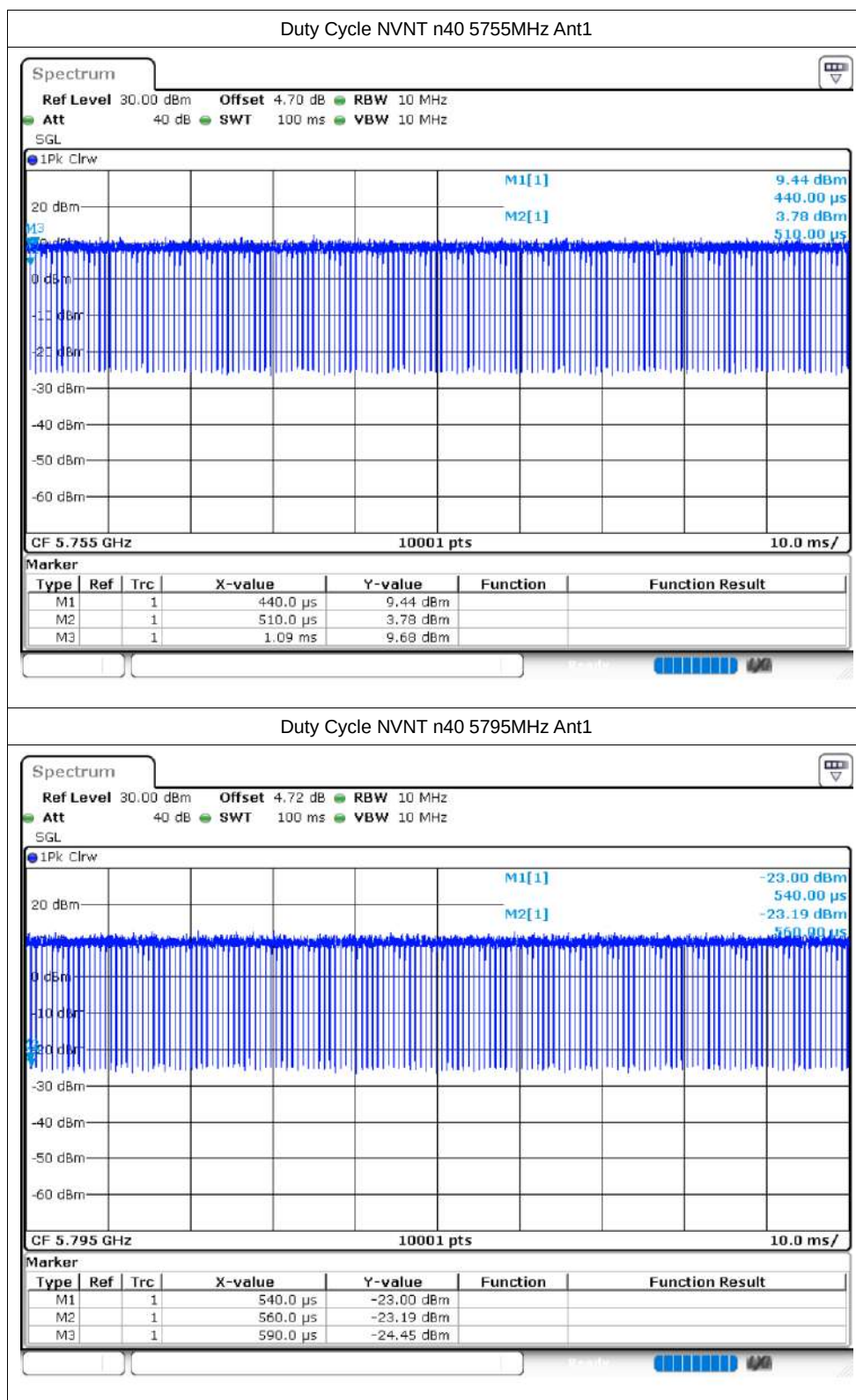


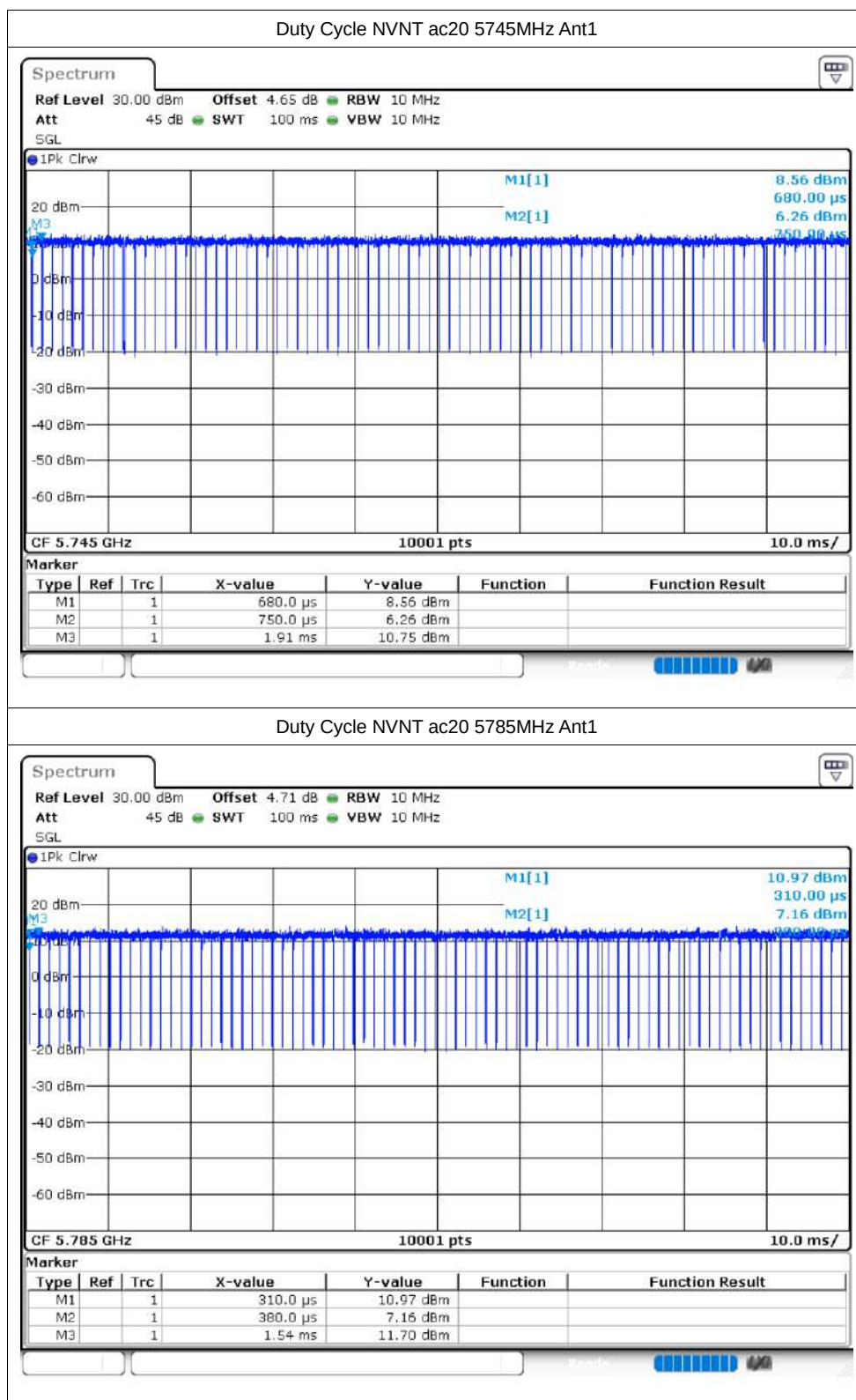
Duty Cycle NVNT a 5785MHz Ant1

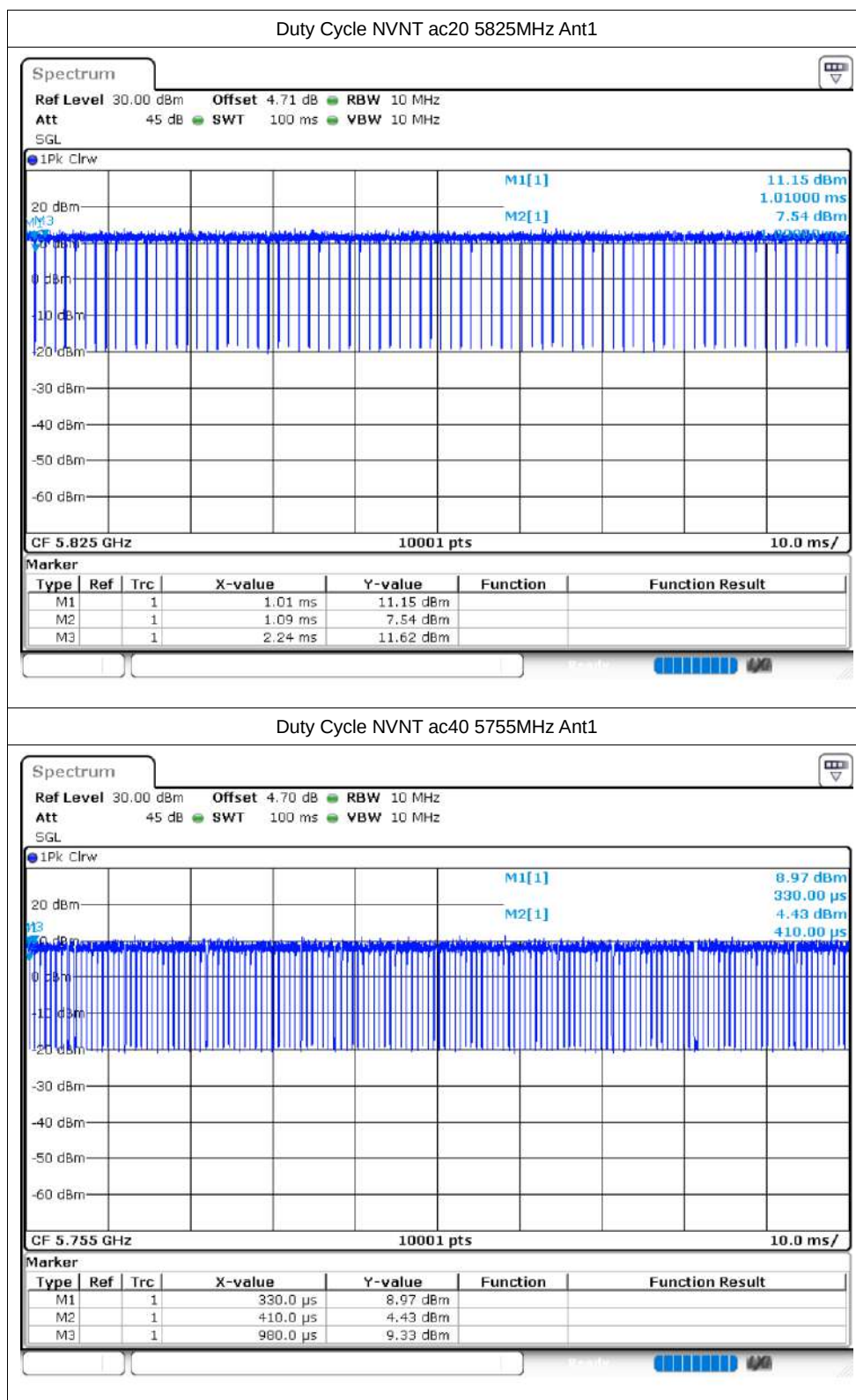


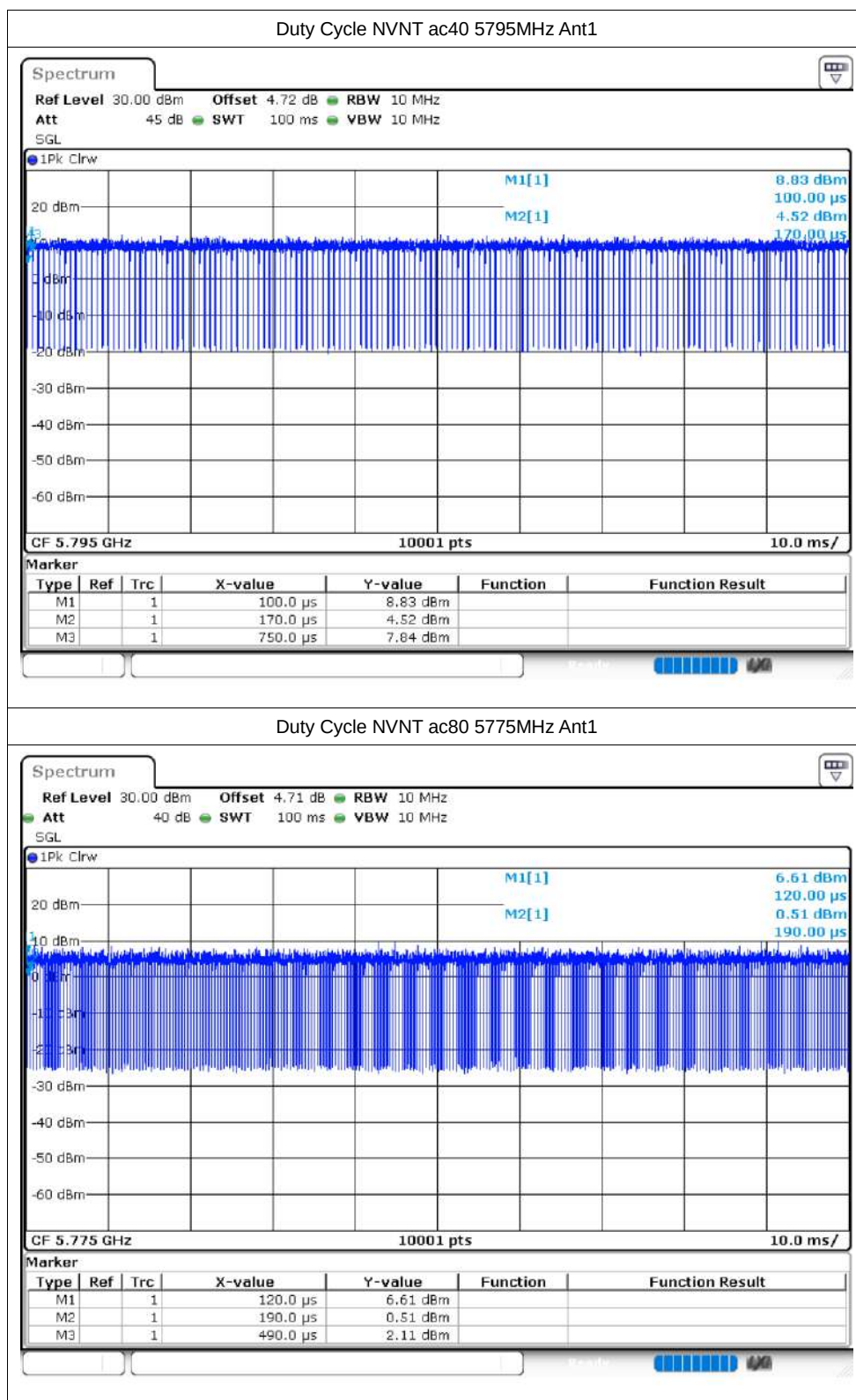












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	7.95	30	Pass
NVNT	a	5785	Ant1	7.53	30	Pass
NVNT	a	5825	Ant1	7.46	30	Pass
NVNT	n20	5745	Ant1	8.08	30	Pass
NVNT	n20	5785	Ant1	8	30	Pass
NVNT	n20	5825	Ant1	7.41	30	Pass
NVNT	n40	5755	Ant1	7.92	30	Pass
NVNT	n40	5795	Ant1	7.86	30	Pass
NVNT	ac20	5745	Ant1	8.06	30	Pass
NVNT	ac20	5785	Ant1	7.73	30	Pass
NVNT	ac20	5825	Ant1	7.81	30	Pass
NVNT	ac40	5755	Ant1	7.88	30	Pass
NVNT	ac40	5795	Ant1	7.89	30	Pass
NVNT	ac80	5775	Ant1	7.62	30	Pass

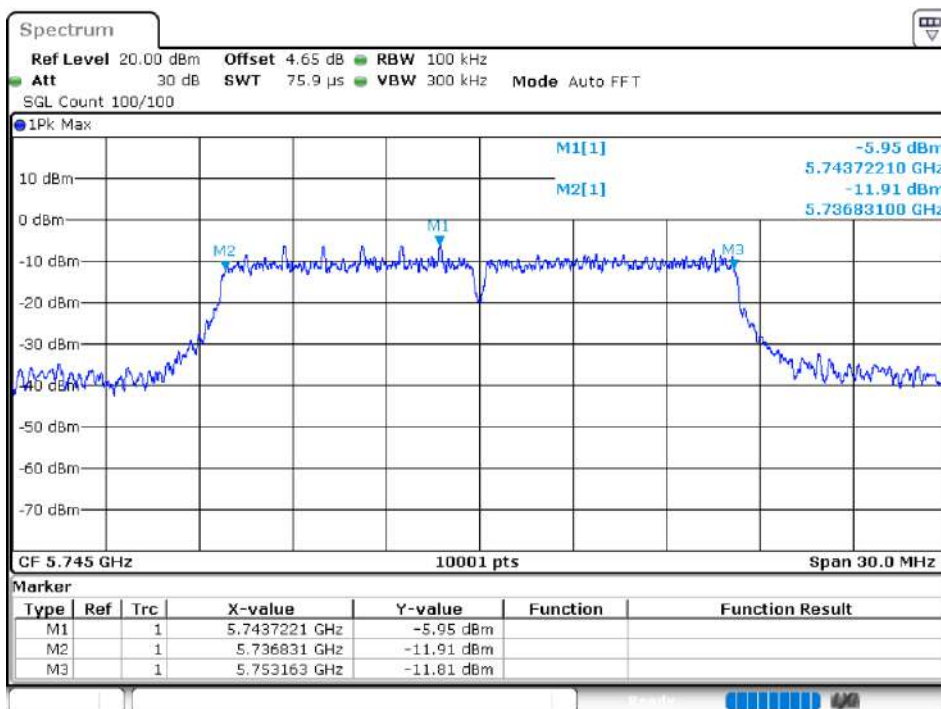
Note: The average power value already includes the duty cycle factor

-6dB Bandwidth

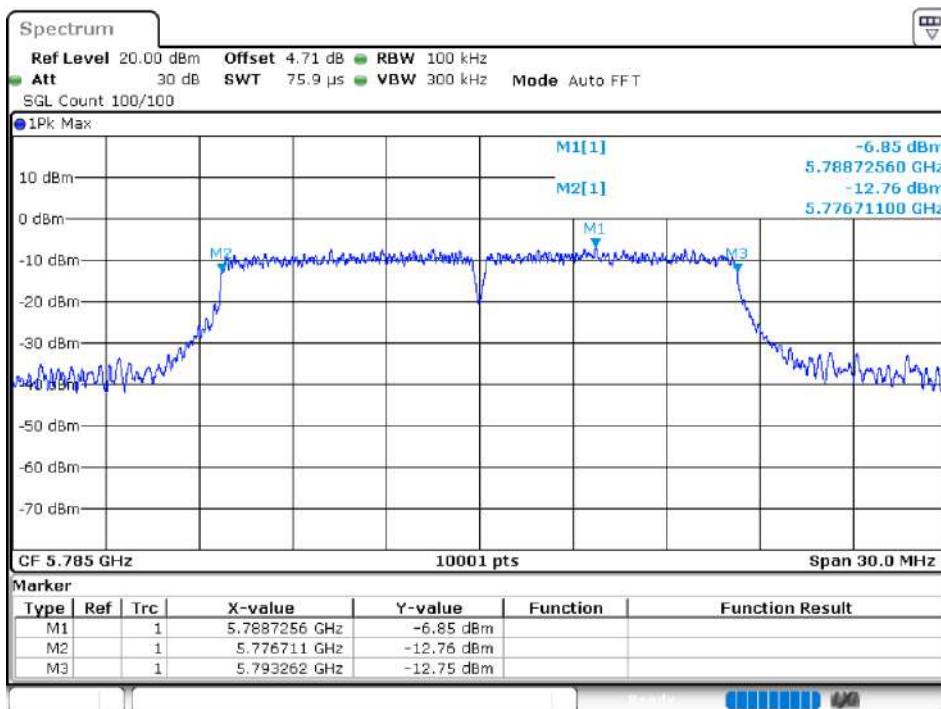
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.332	0.5	Pass
NVNT	a	5785	Ant1	16.551	0.5	Pass
NVNT	a	5825	Ant1	16.521	0.5	Pass
NVNT	n20	5745	Ant1	17.604	0.5	Pass
NVNT	n20	5785	Ant1	17.7	0.5	Pass
NVNT	n20	5825	Ant1	17.58	0.5	Pass
NVNT	n40	5755	Ant1	35.844	0.5	Pass
NVNT	n40	5795	Ant1	34.668	0.5	Pass
NVNT	ac20	5745	Ant1	17.592	0.5	Pass
NVNT	ac20	5785	Ant1	17.412	0.5	Pass
NVNT	ac20	5825	Ant1	17.286	0.5	Pass
NVNT	ac40	5755	Ant1	35.508	0.5	Pass
NVNT	ac40	5795	Ant1	35.43	0.5	Pass
NVNT	ac80	5775	Ant1	75.36	0.5	Pass

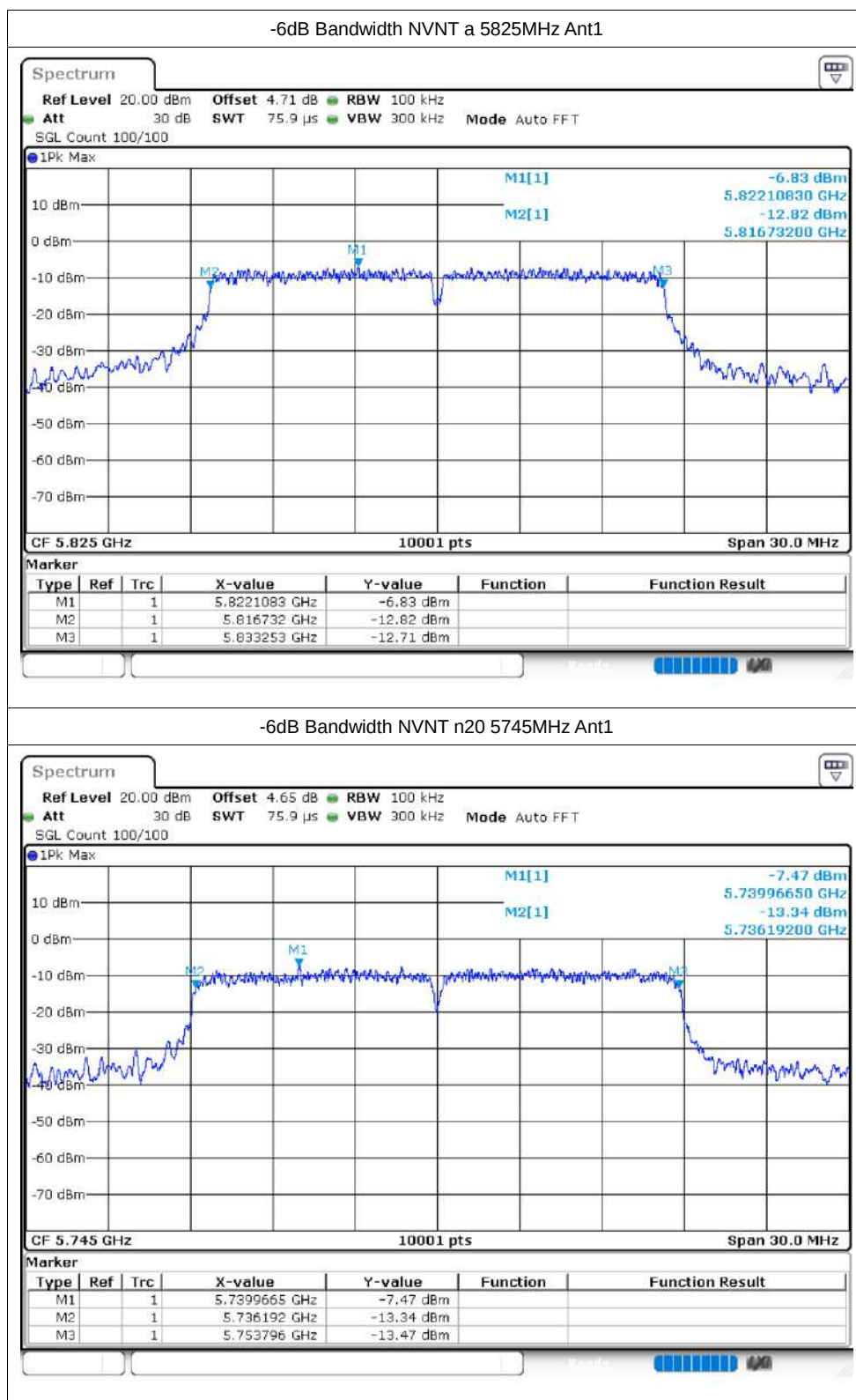
Test Graphs

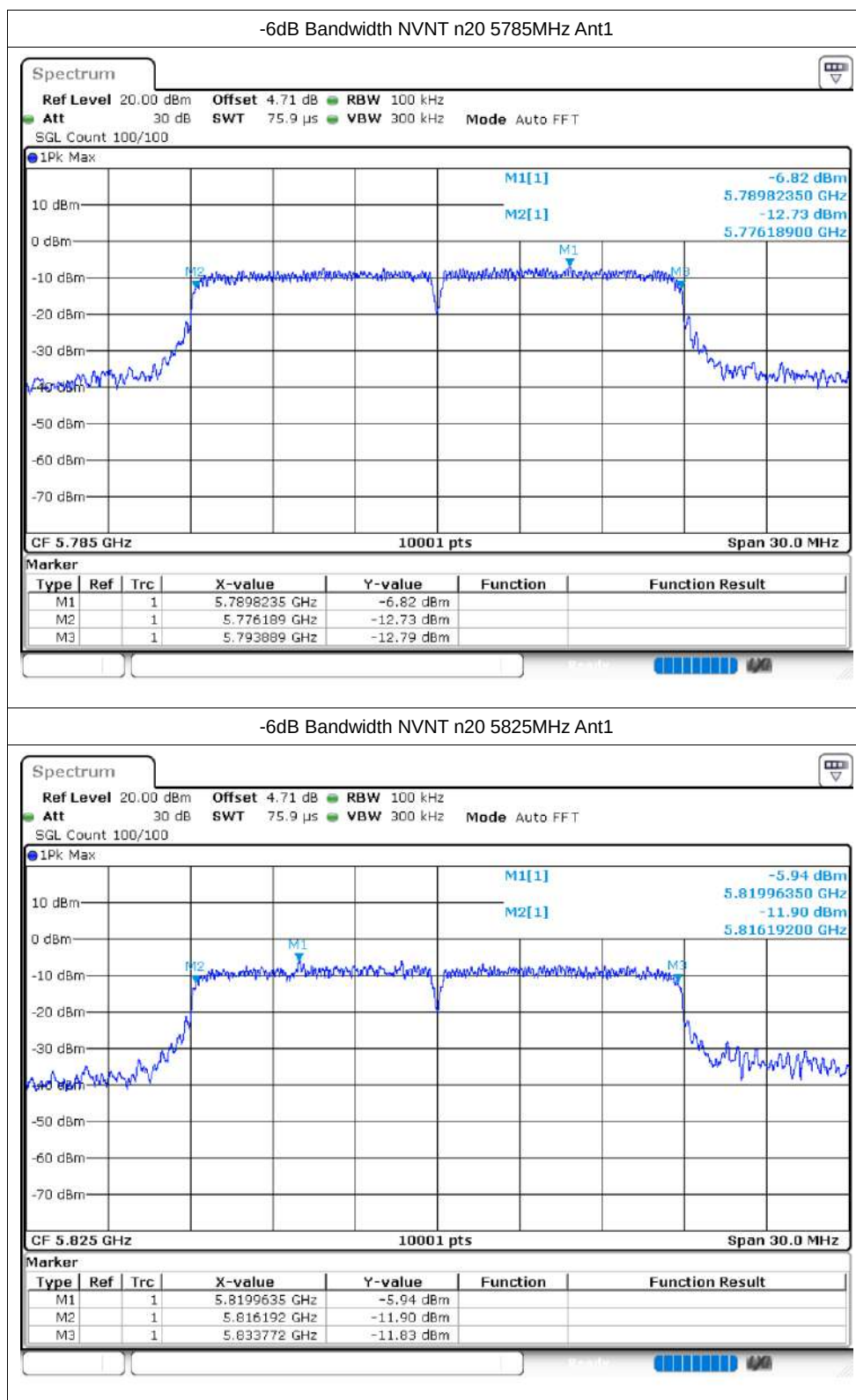
-6dB Bandwidth NVNT a 5745MHz Ant1

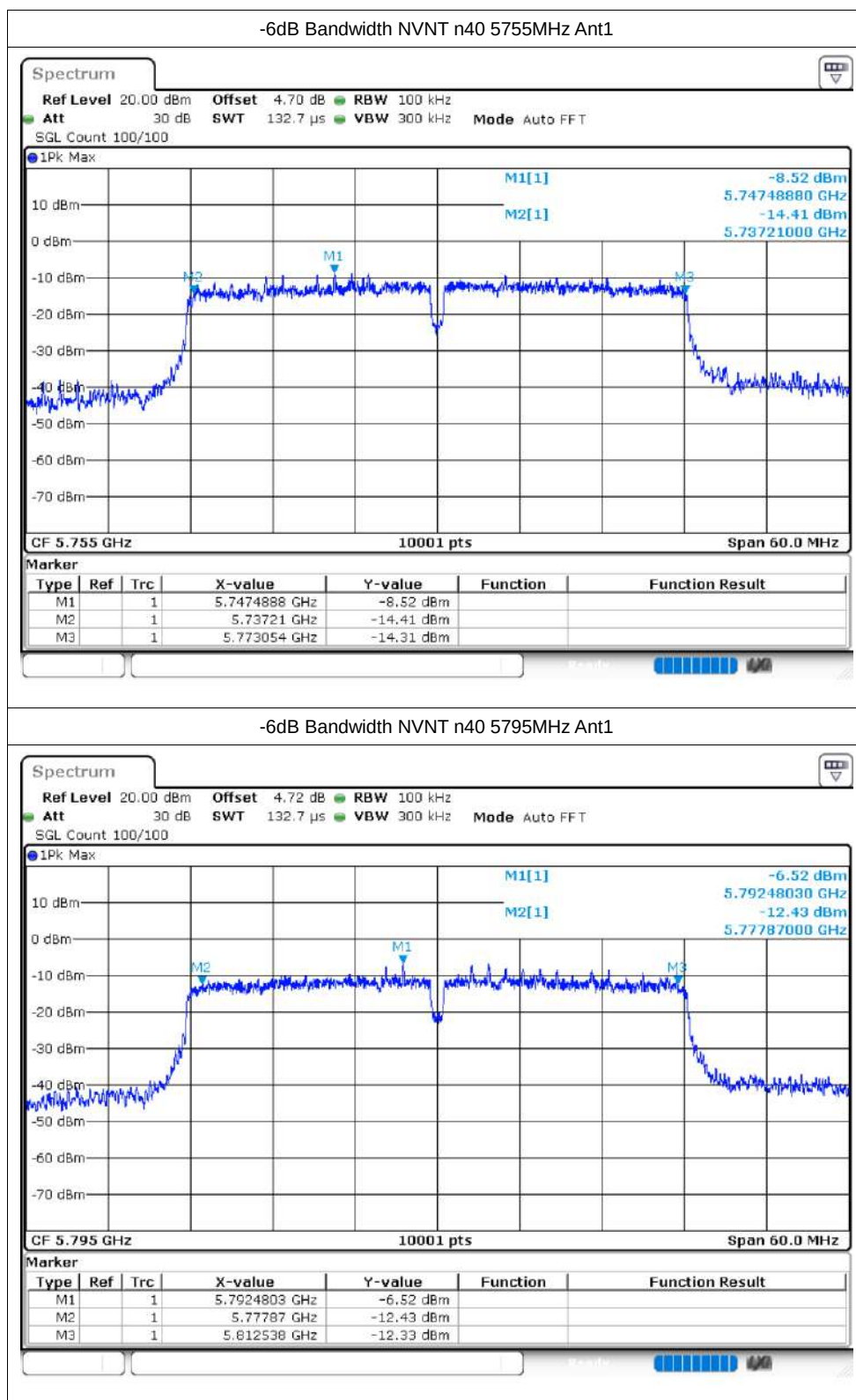


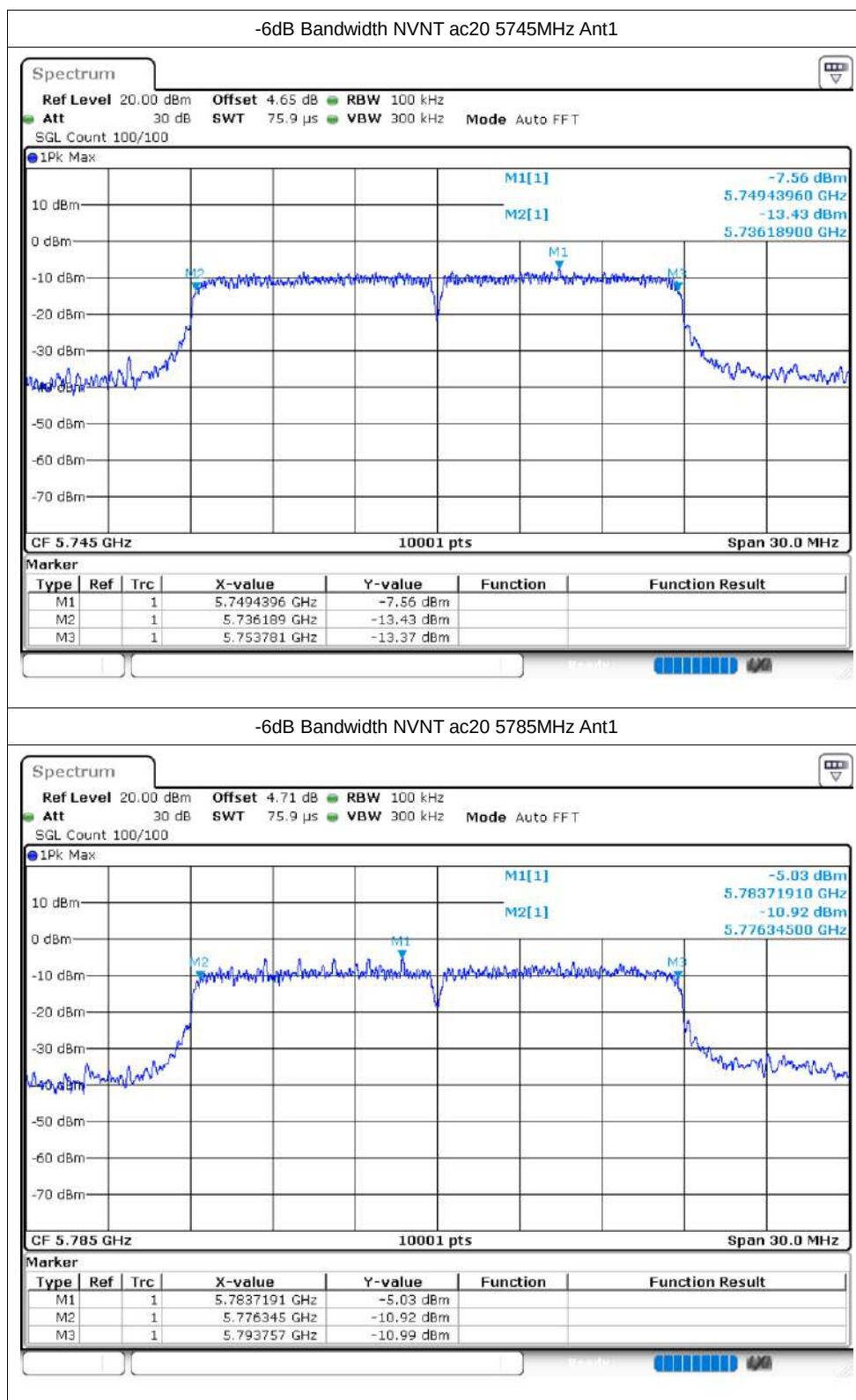
-6dB Bandwidth NVNT a 5785MHz Ant1

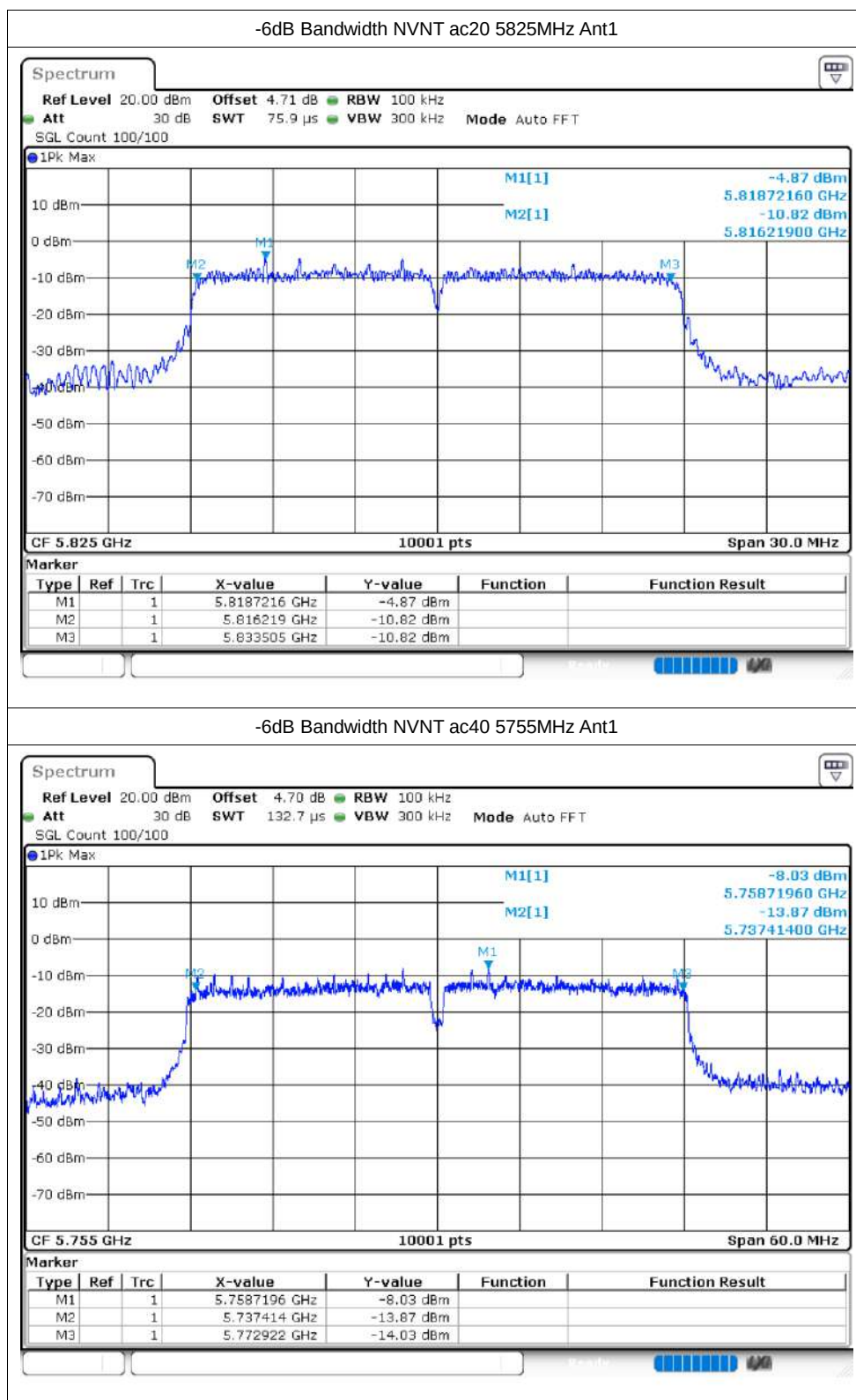


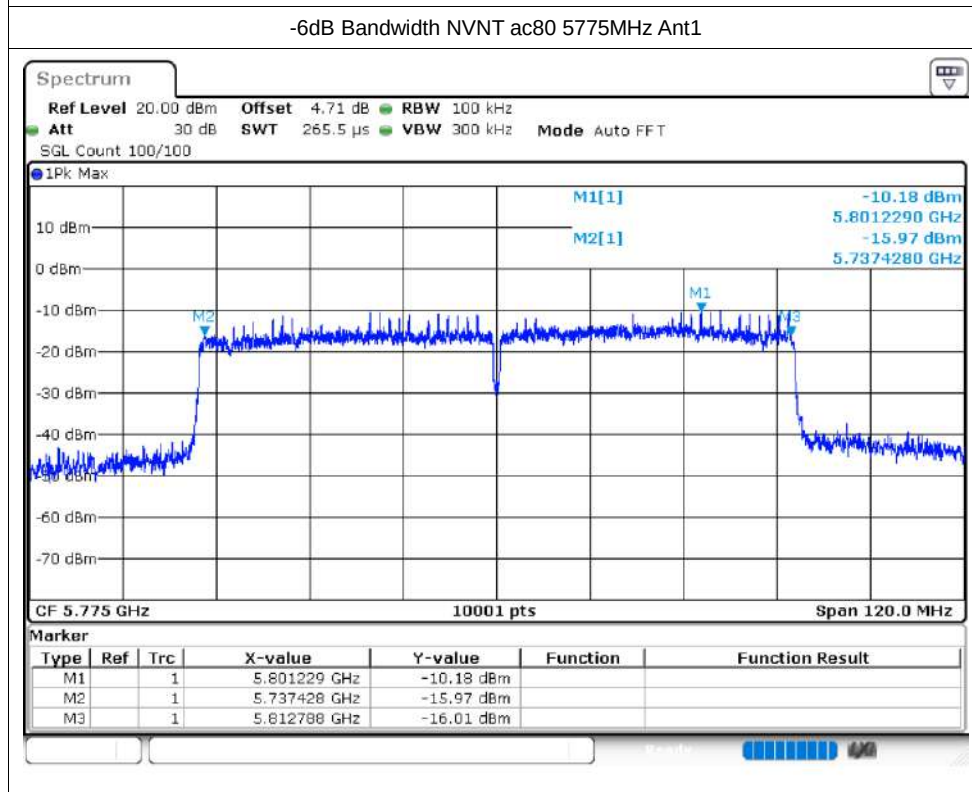
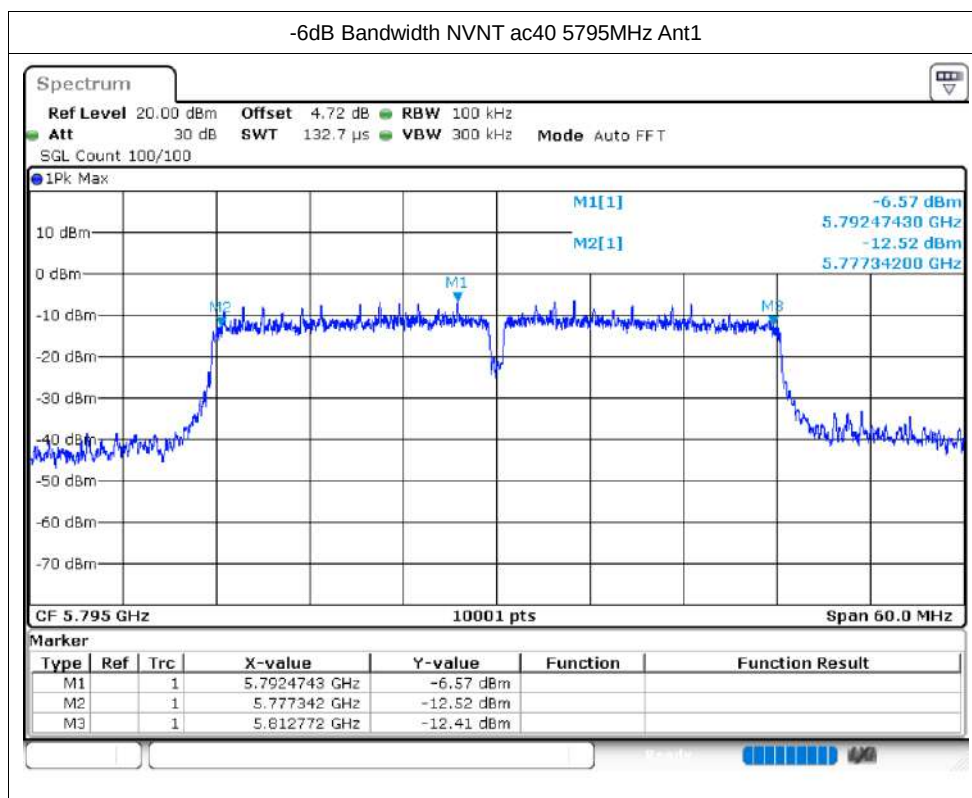












Occupied Channel Bandwidth

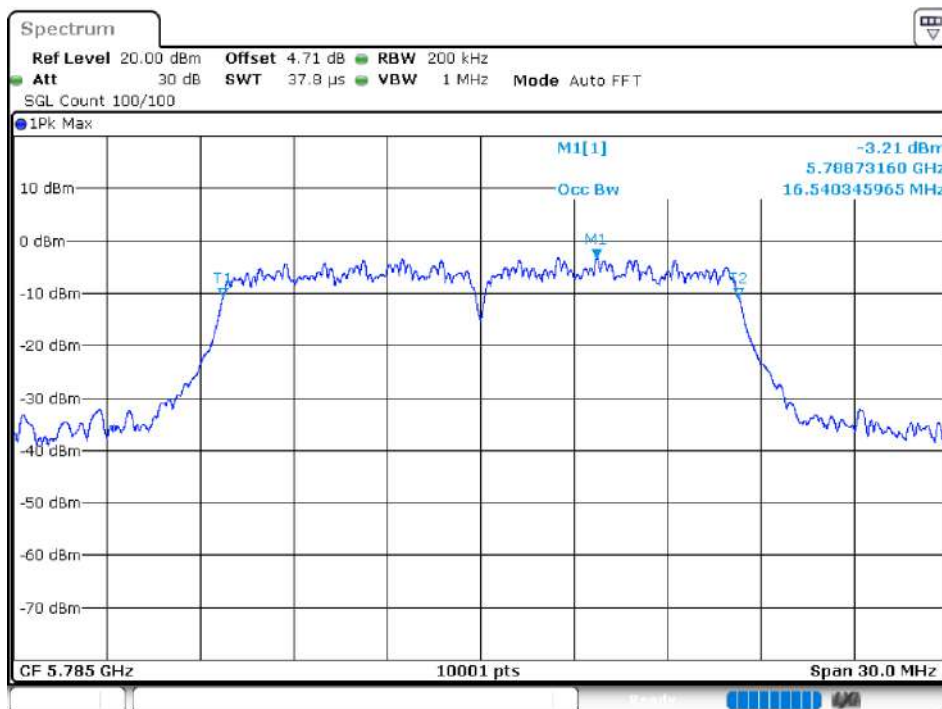
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.624
NVNT	a	5785	Ant1	16.54
NVNT	a	5825	Ant1	16.588
NVNT	n20	5745	Ant1	17.788
NVNT	n20	5785	Ant1	17.614
NVNT	n20	5825	Ant1	17.596
NVNT	n40	5755	Ant1	36.146
NVNT	n40	5795	Ant1	36.086
NVNT	ac20	5745	Ant1	17.692
NVNT	ac20	5785	Ant1	17.614
NVNT	ac20	5825	Ant1	17.659
NVNT	ac40	5755	Ant1	36.134
NVNT	ac40	5795	Ant1	36.098
NVNT	ac80	5775	Ant1	75.448

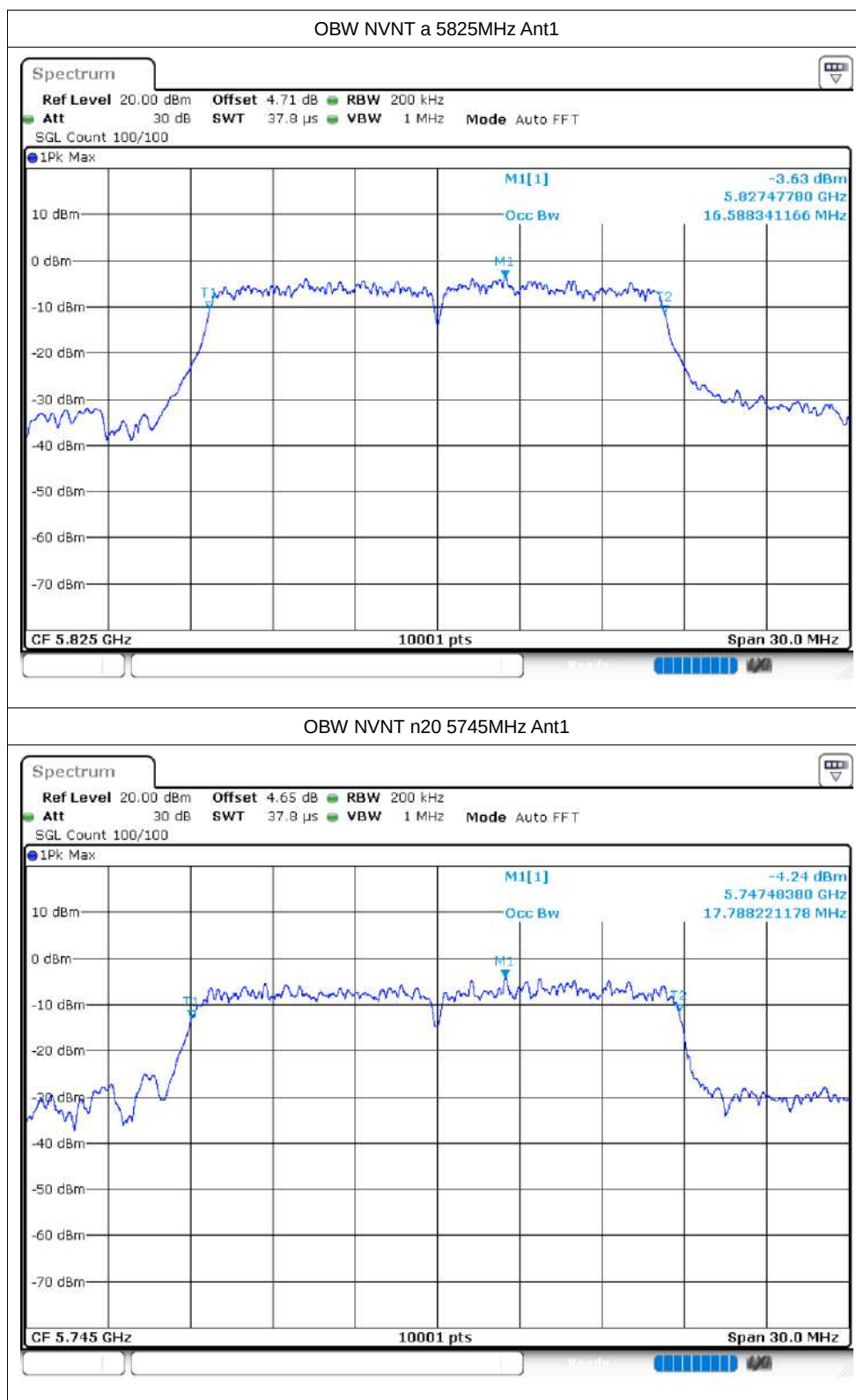
Test Graphs

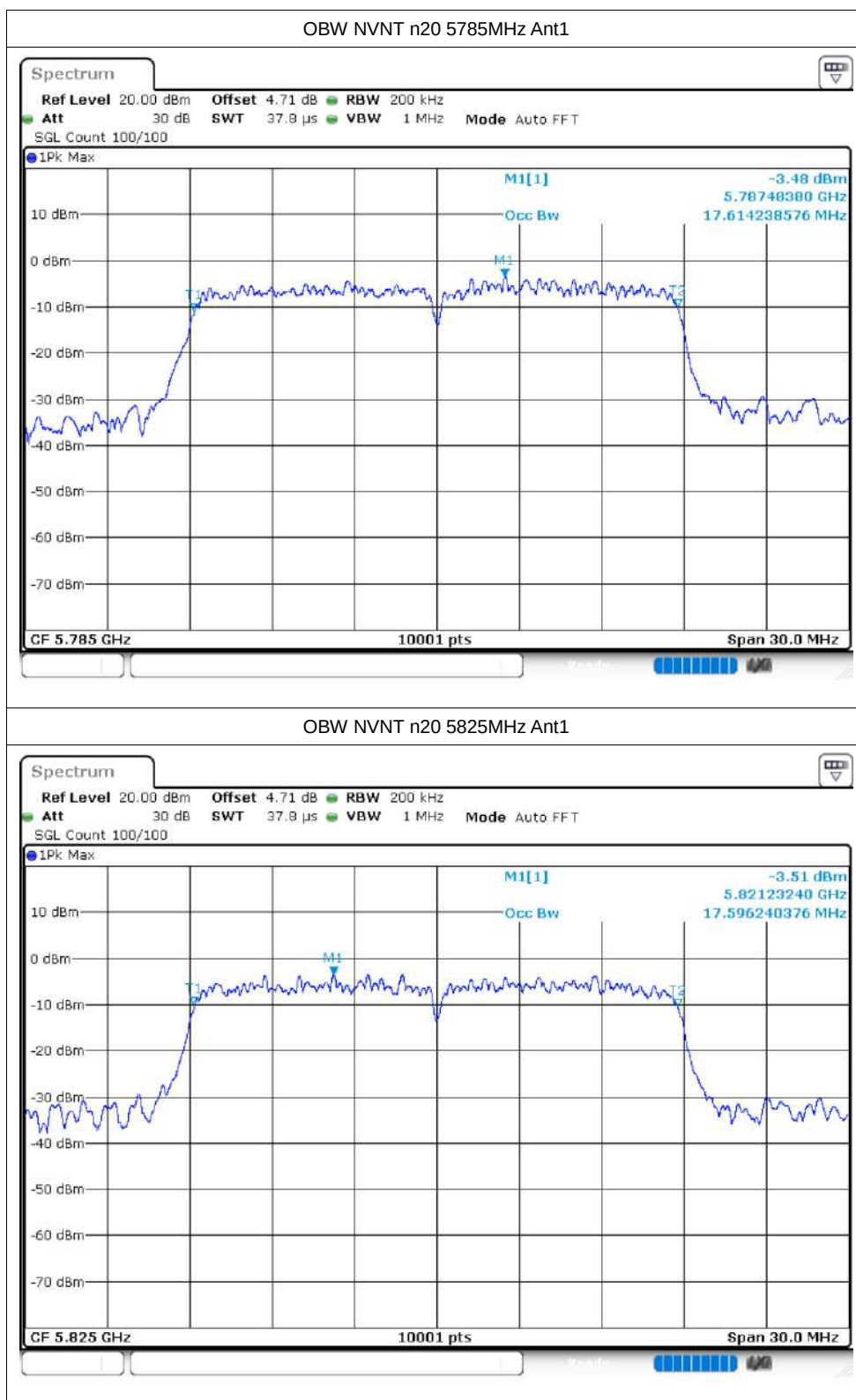
OBW NVNT a 5745MHz Ant1

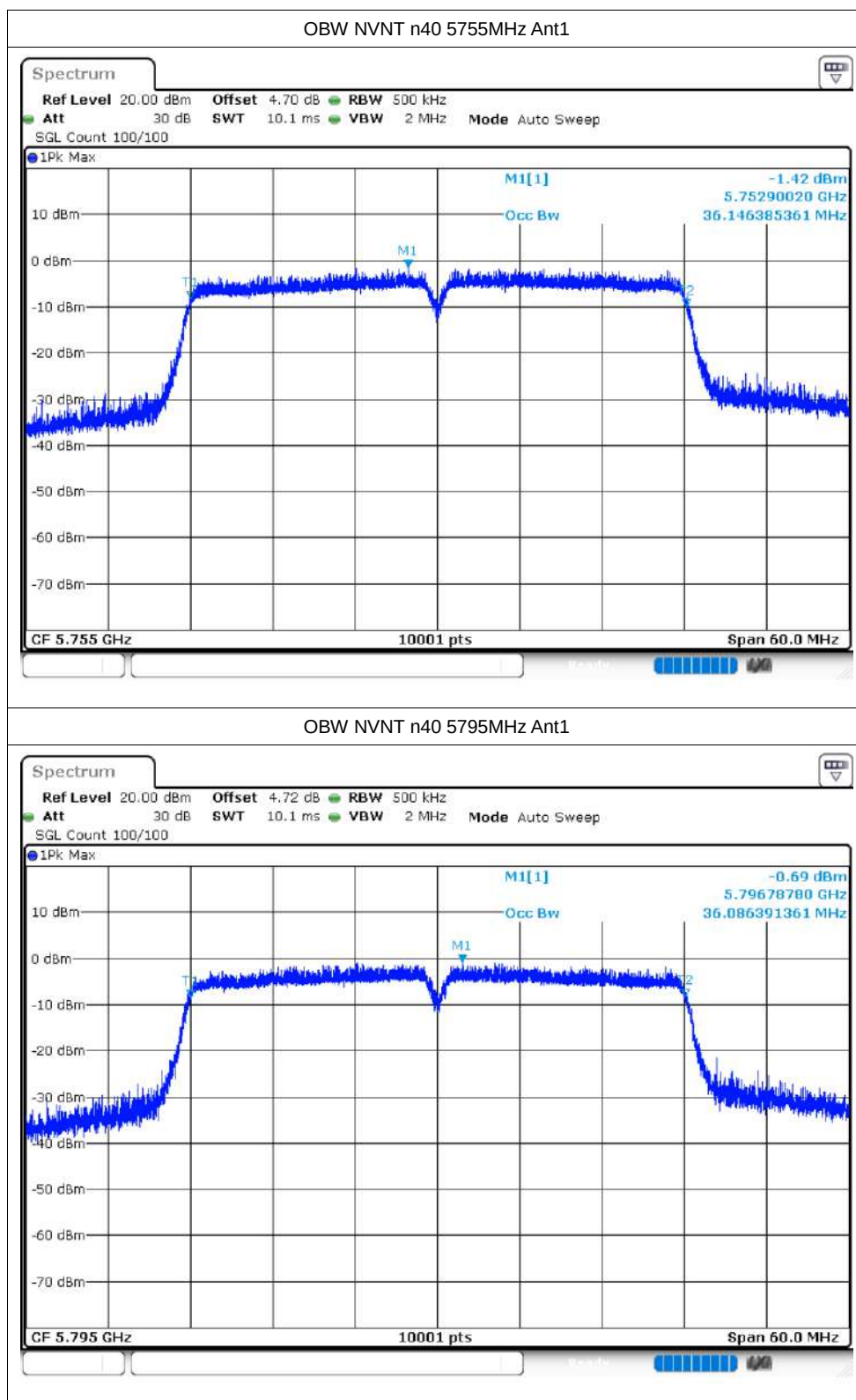


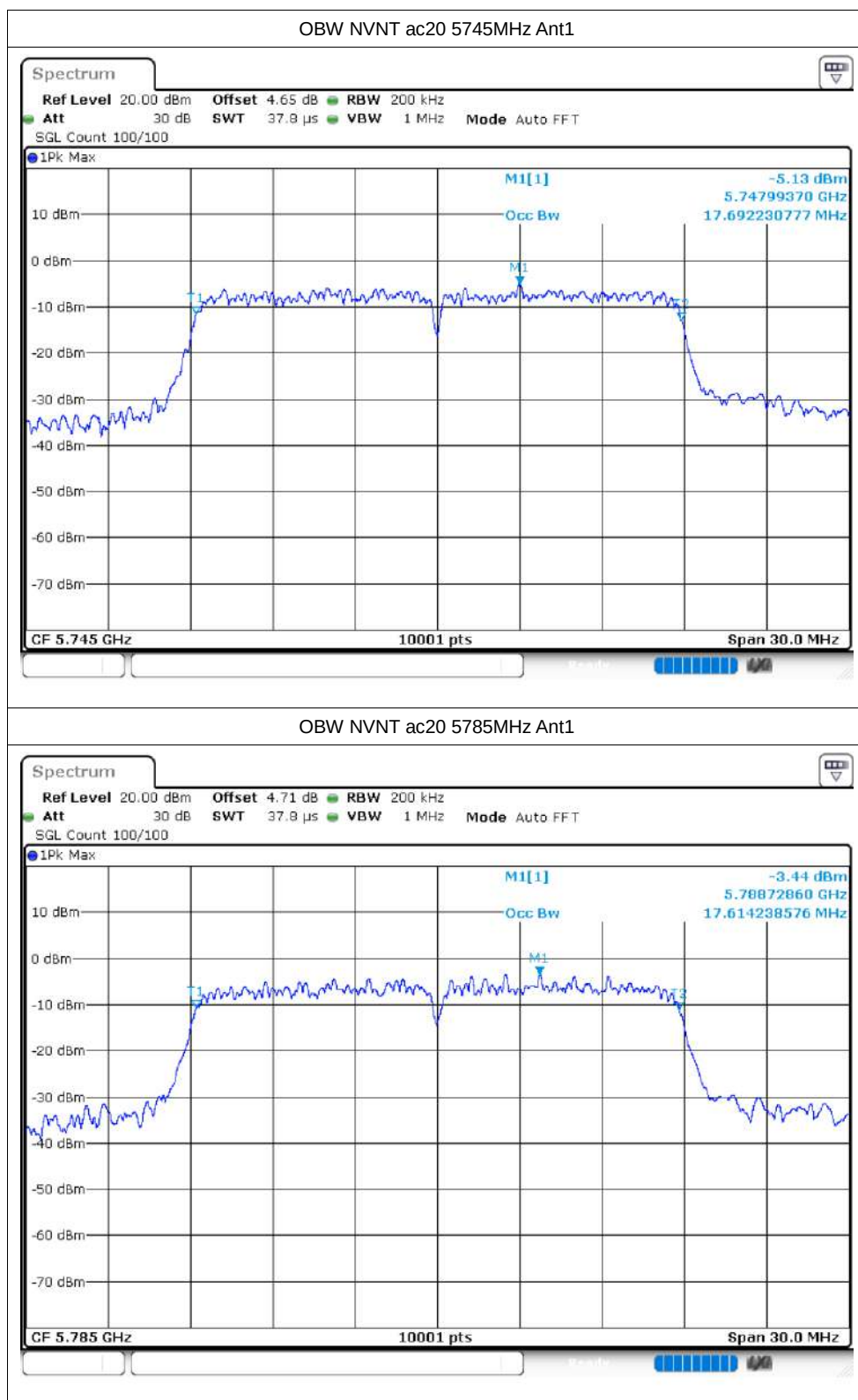
OBW NVNT a 5785MHz Ant1

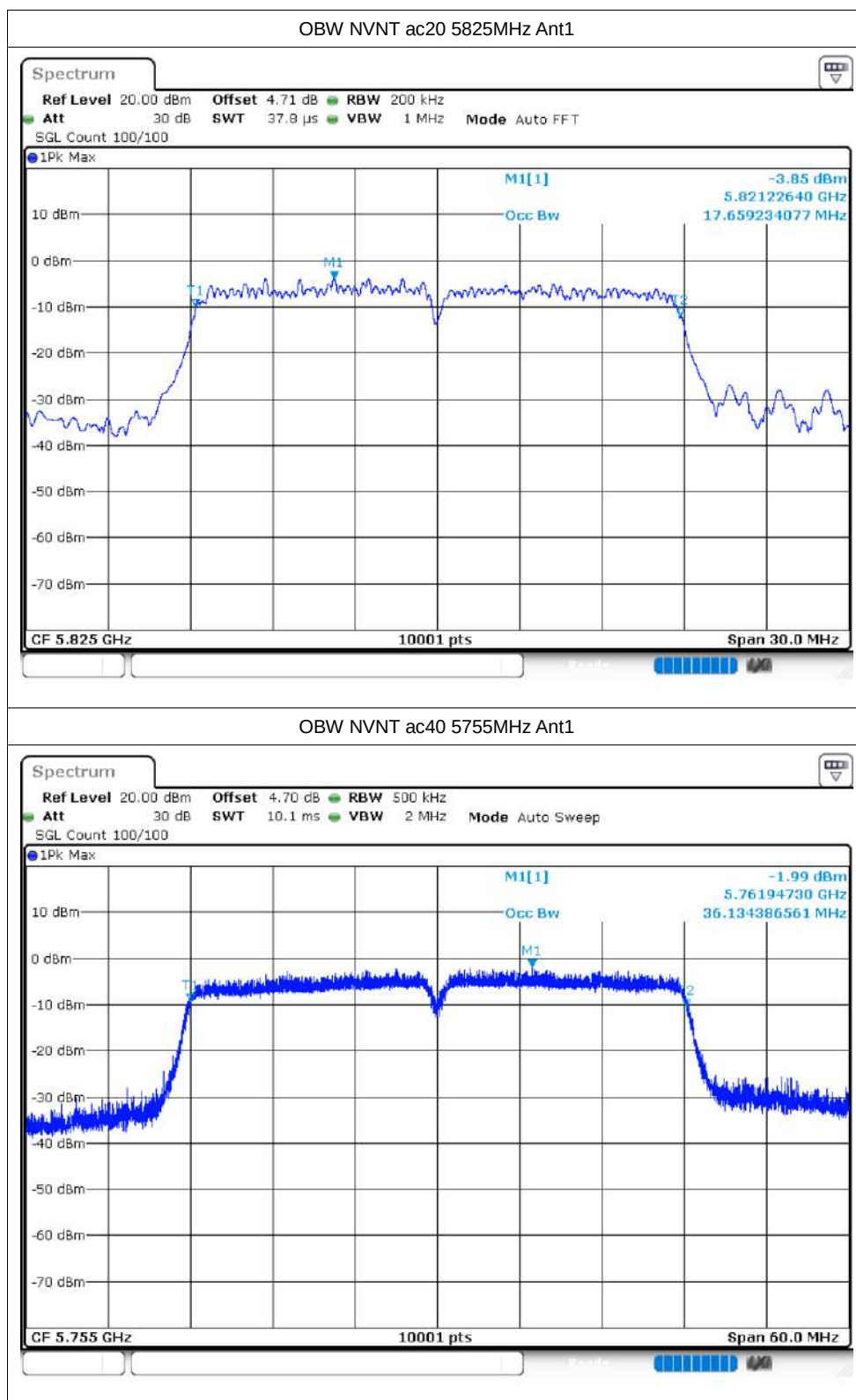


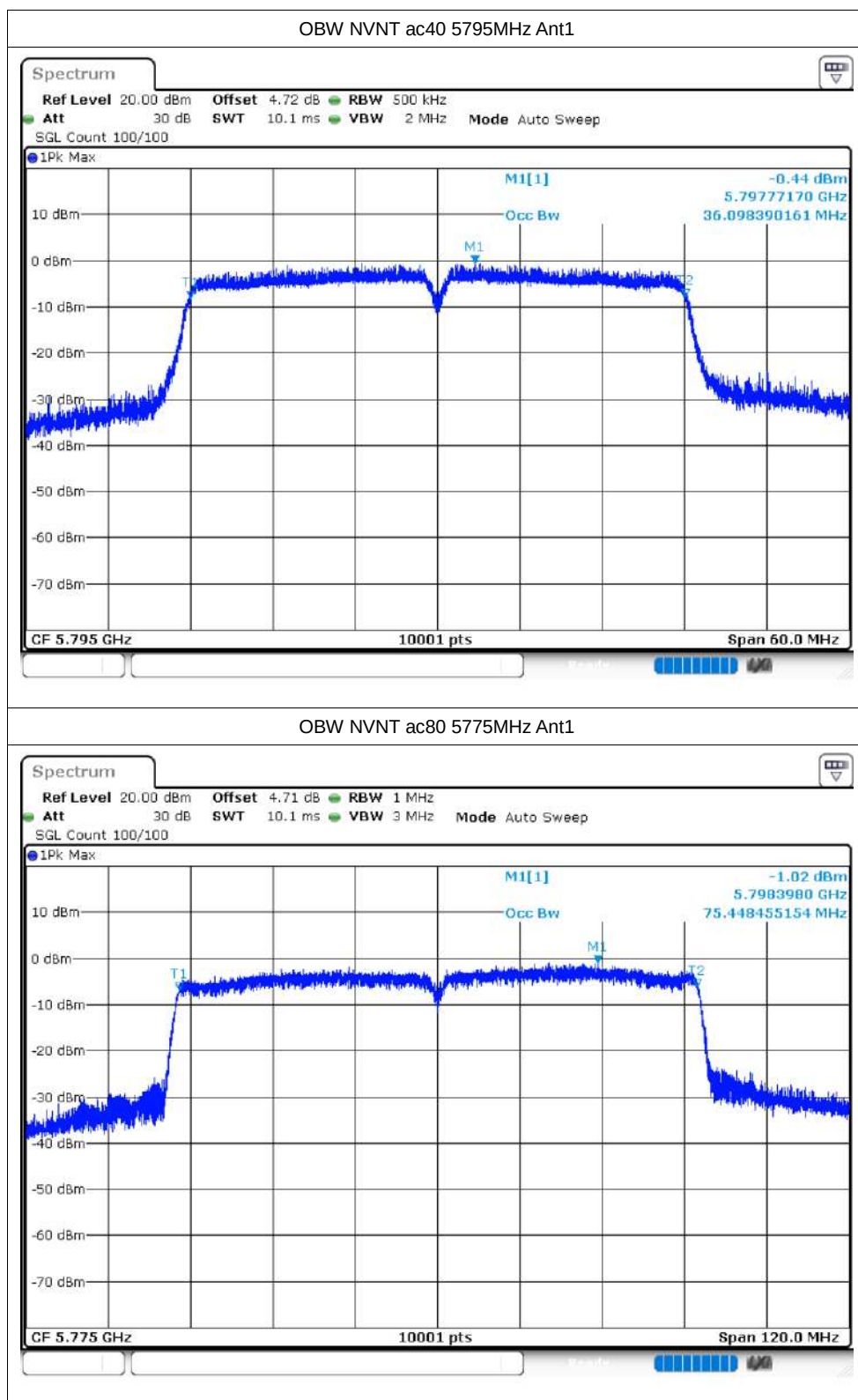










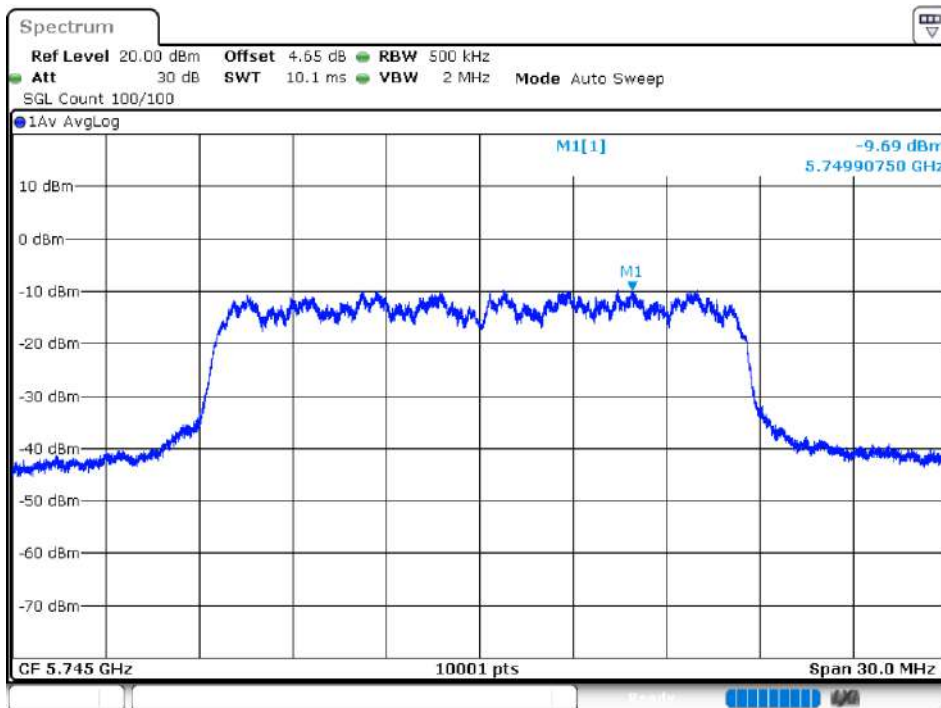


Maximum Power Spectral Density Level

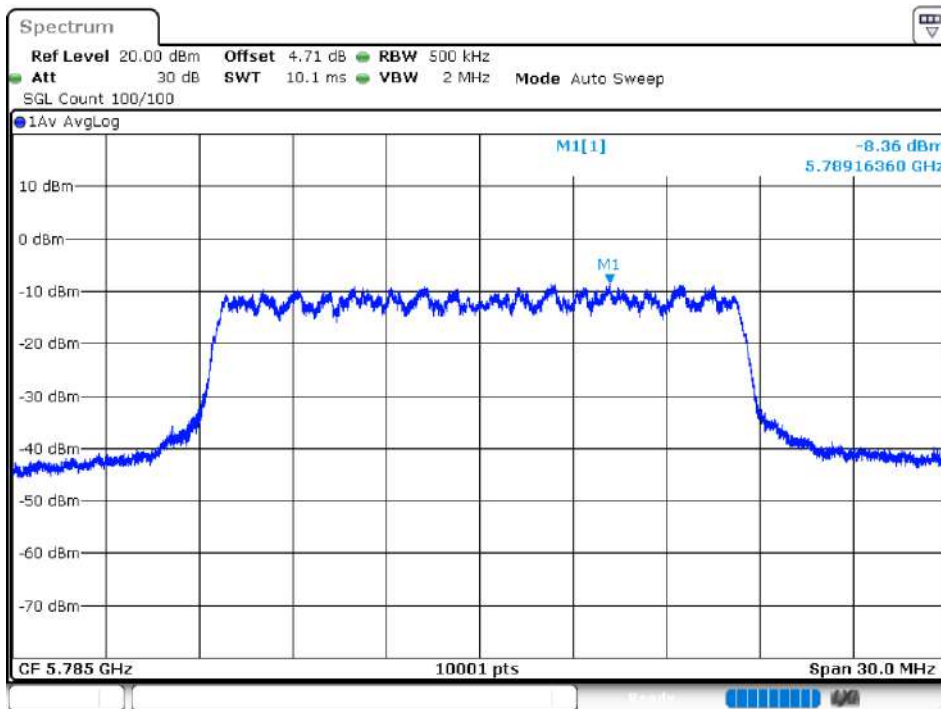
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-9.69	0.21	-9.48	30	Pass
NVNT	a	5785	Ant1	-8.36	0.2	-8.16	30	Pass
NVNT	a	5825	Ant1	-8.46	0.02	-8.44	30	Pass
NVNT	n20	5745	Ant1	-10.22	0.23	-9.99	30	Pass
NVNT	n20	5785	Ant1	-8.7	0.23	-8.47	30	Pass
NVNT	n20	5825	Ant1	-9.56	0.23	-9.33	30	Pass
NVNT	n40	5755	Ant1	-14.12	0.45	-13.67	30	Pass
NVNT	n40	5795	Ant1	-13.19	0.07	-13.12	30	Pass
NVNT	ac20	5745	Ant1	-10.73	0.24	-10.49	30	Pass
NVNT	ac20	5785	Ant1	-9.29	0.23	-9.06	30	Pass
NVNT	ac20	5825	Ant1	-10.64	0.24	-10.4	30	Pass
NVNT	ac40	5755	Ant1	-15.02	0.55	-14.47	30	Pass
NVNT	ac40	5795	Ant1	-13.06	0.45	-12.61	30	Pass
NVNT	ac80	5775	Ant1	-19.07	0.86	-18.21	30	Pass

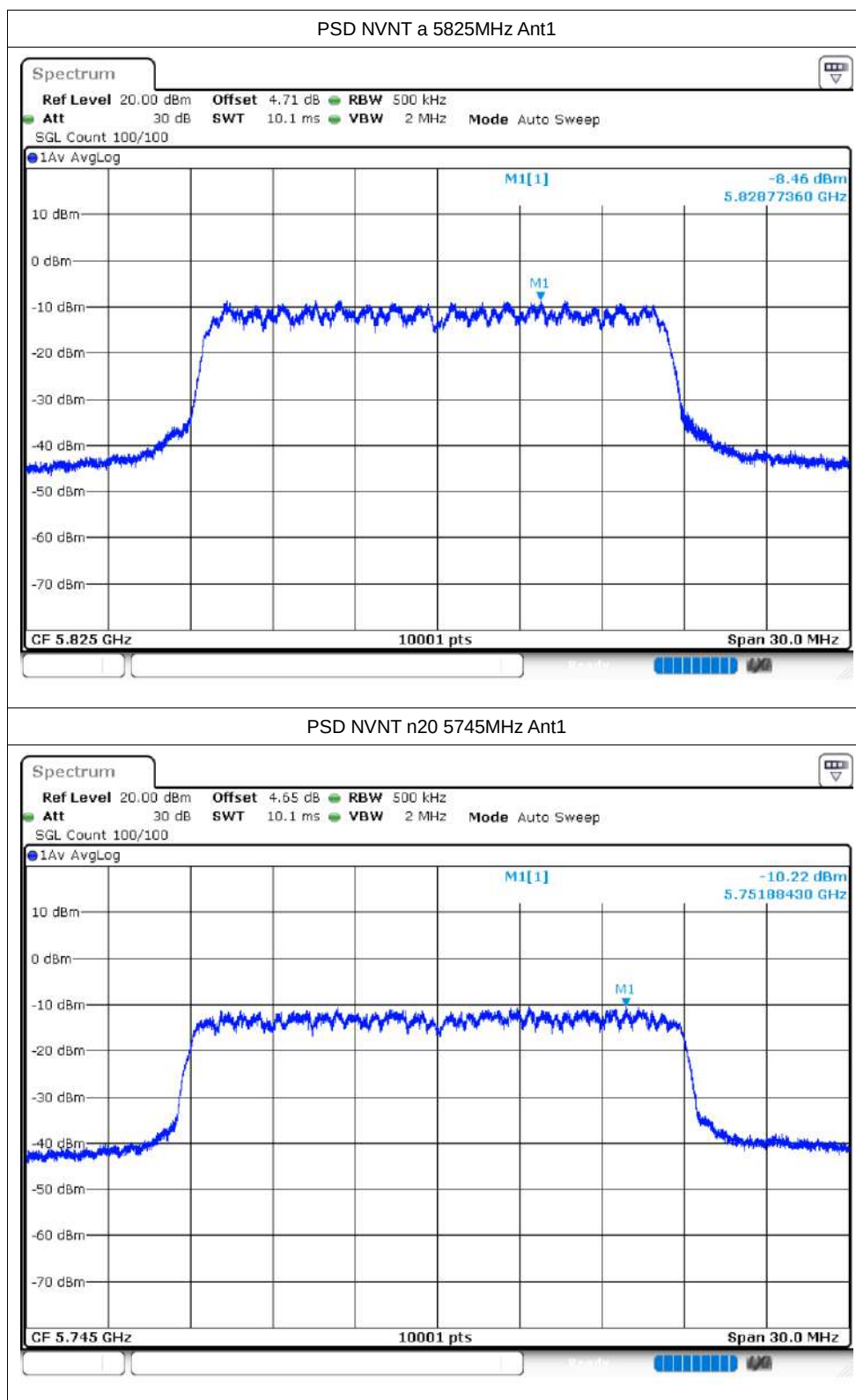
Test Graphs

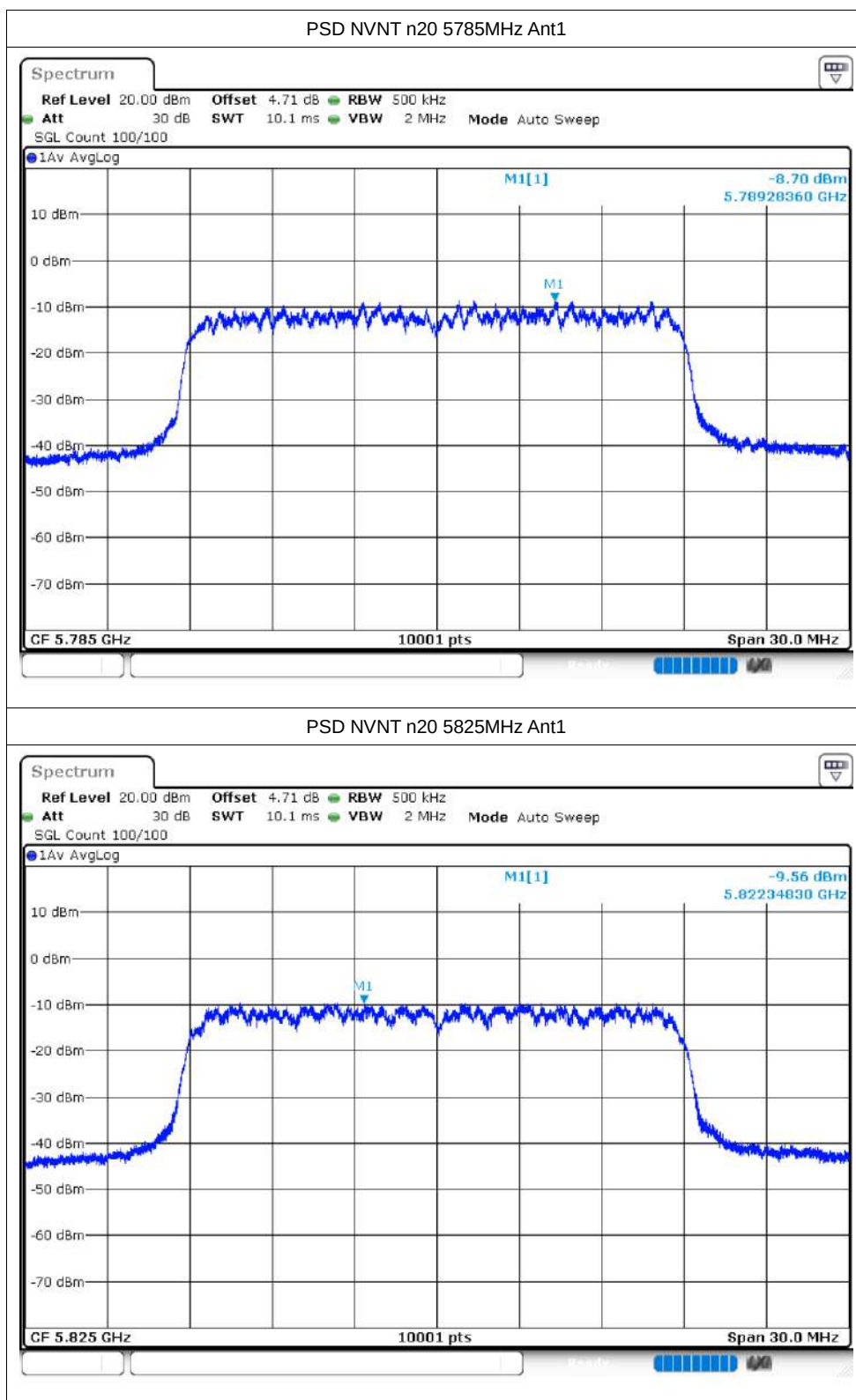
PSD NVNT a 5745MHz Ant1

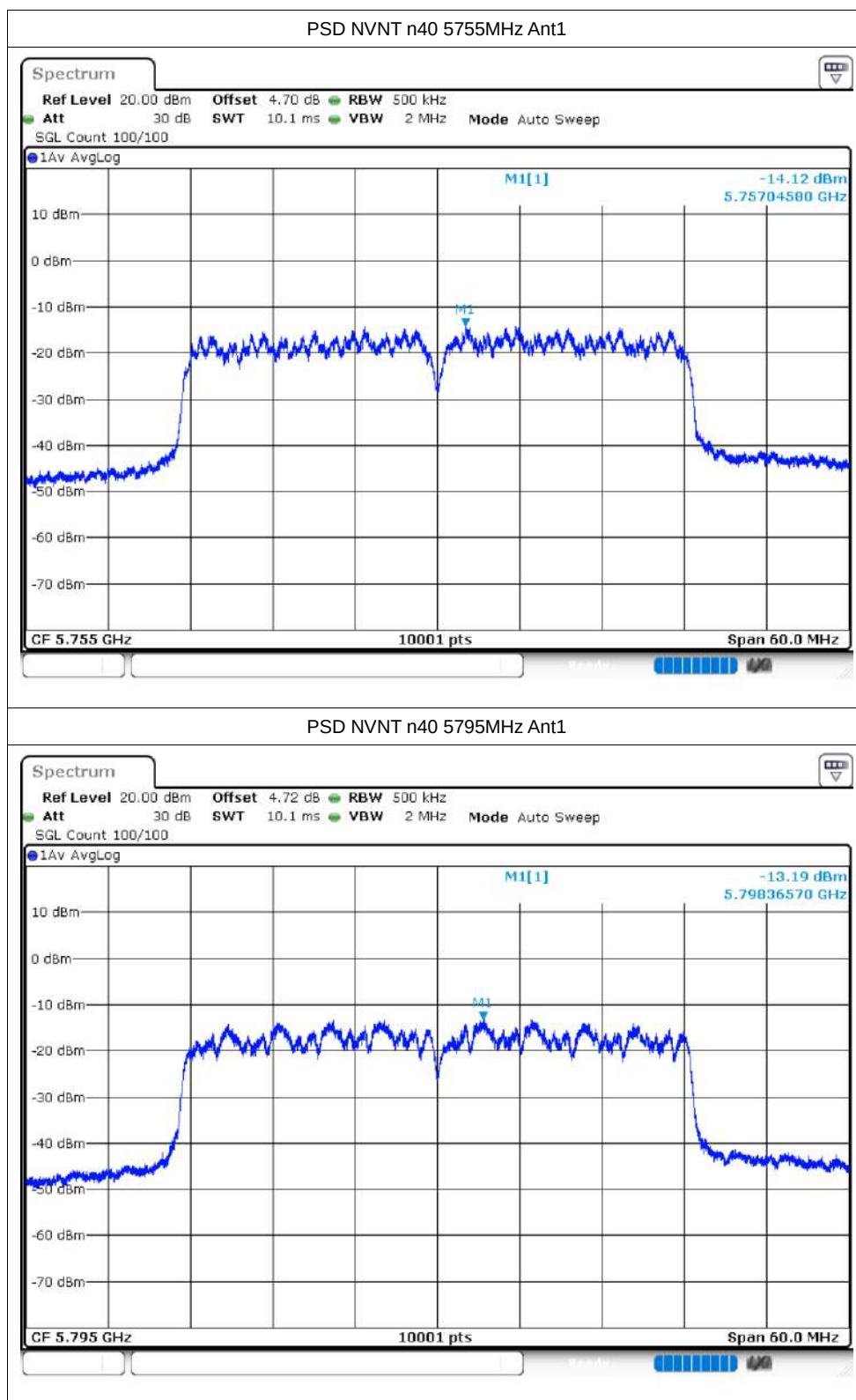


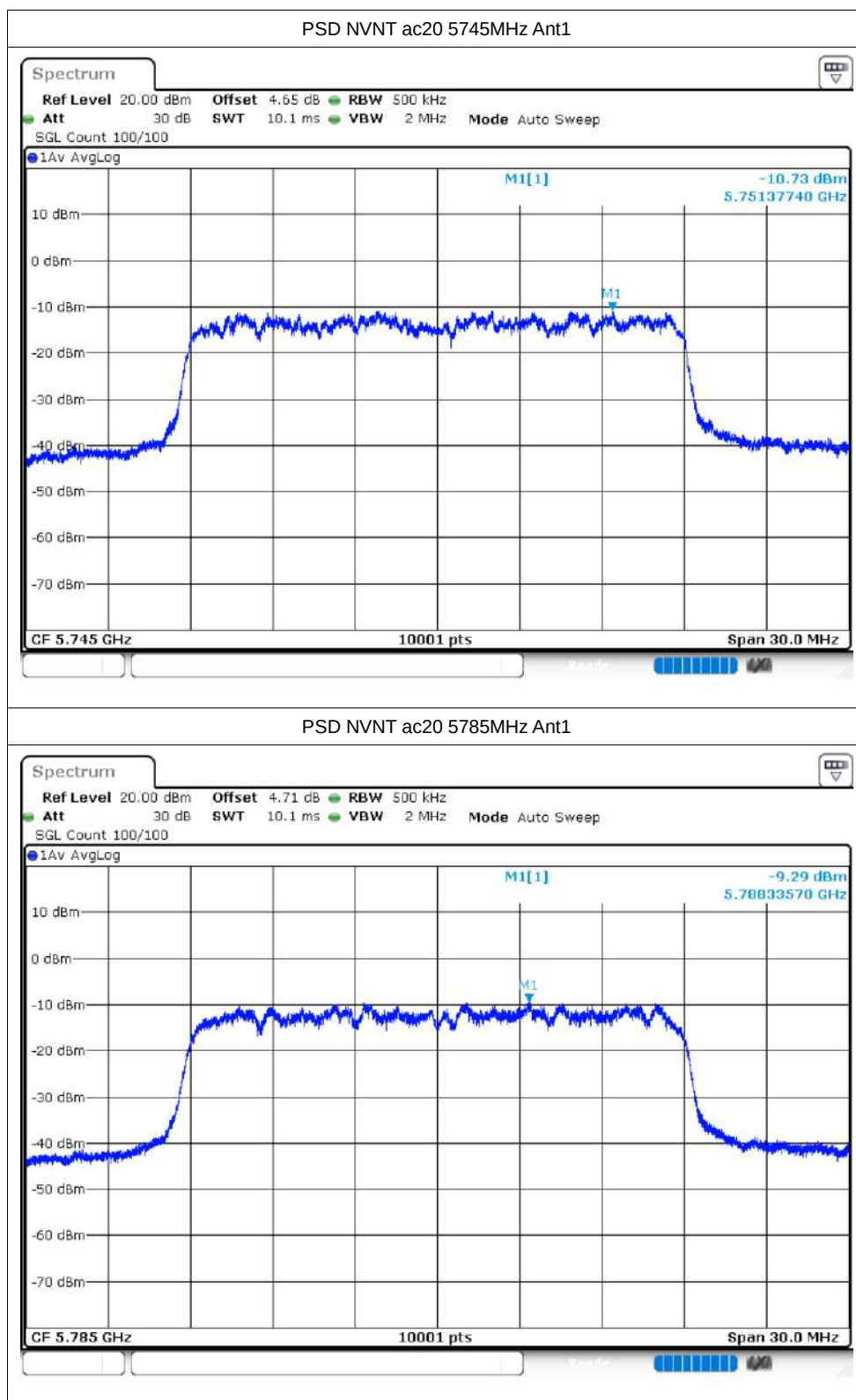
PSD NVNT a 5785MHz Ant1

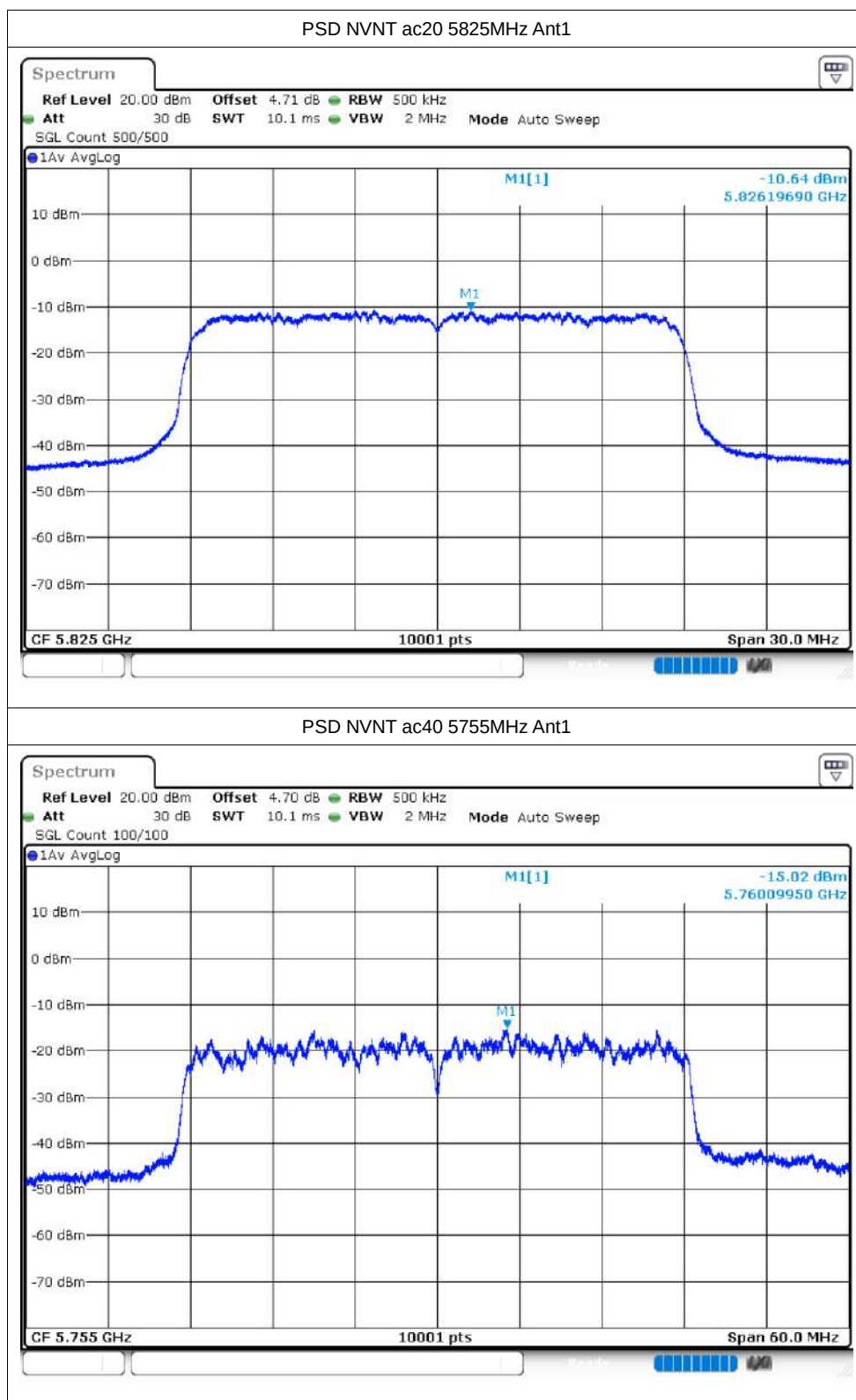


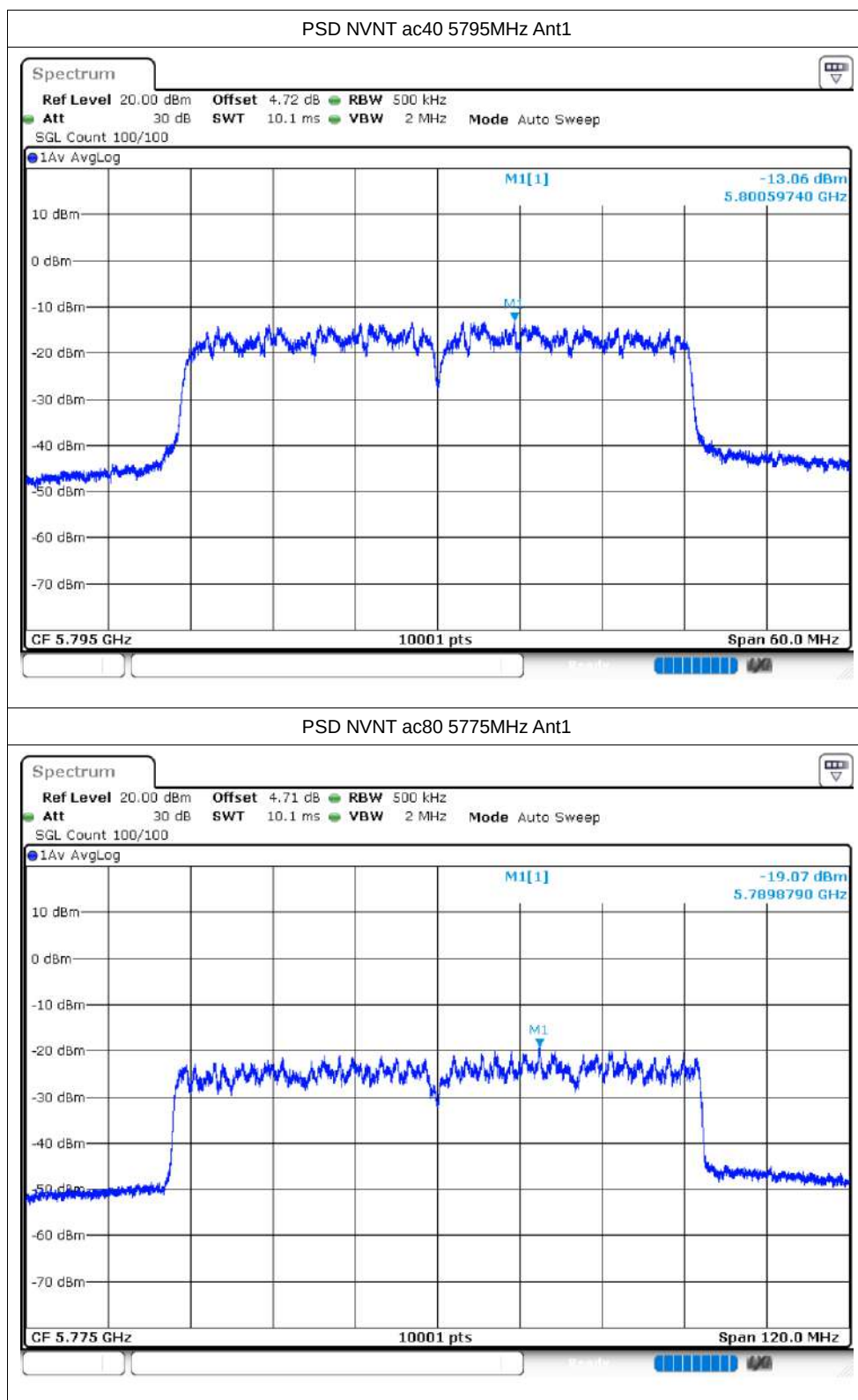










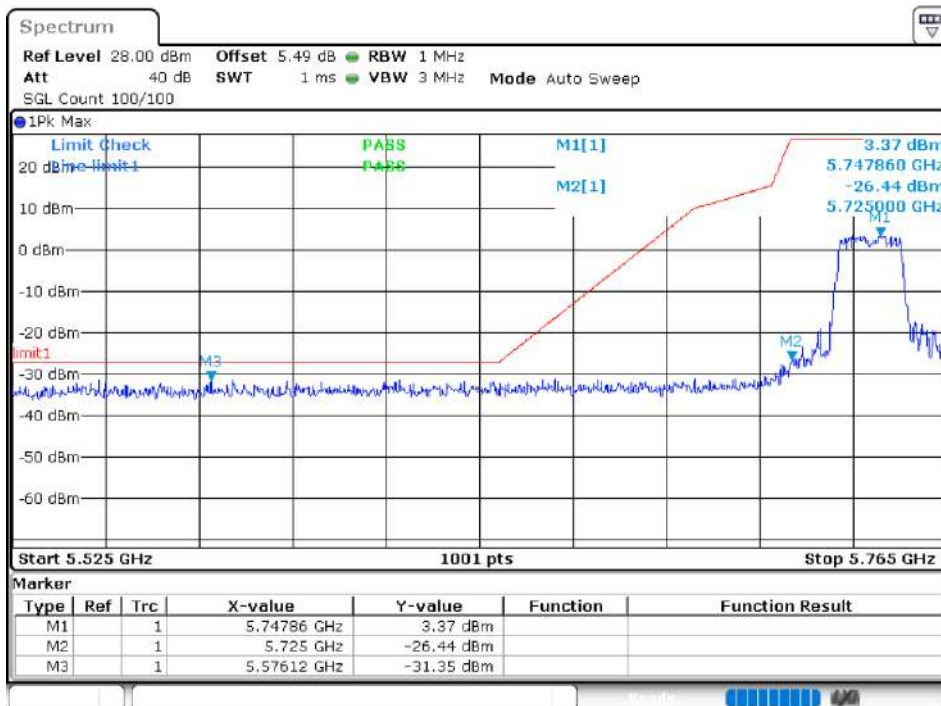


Band Edge

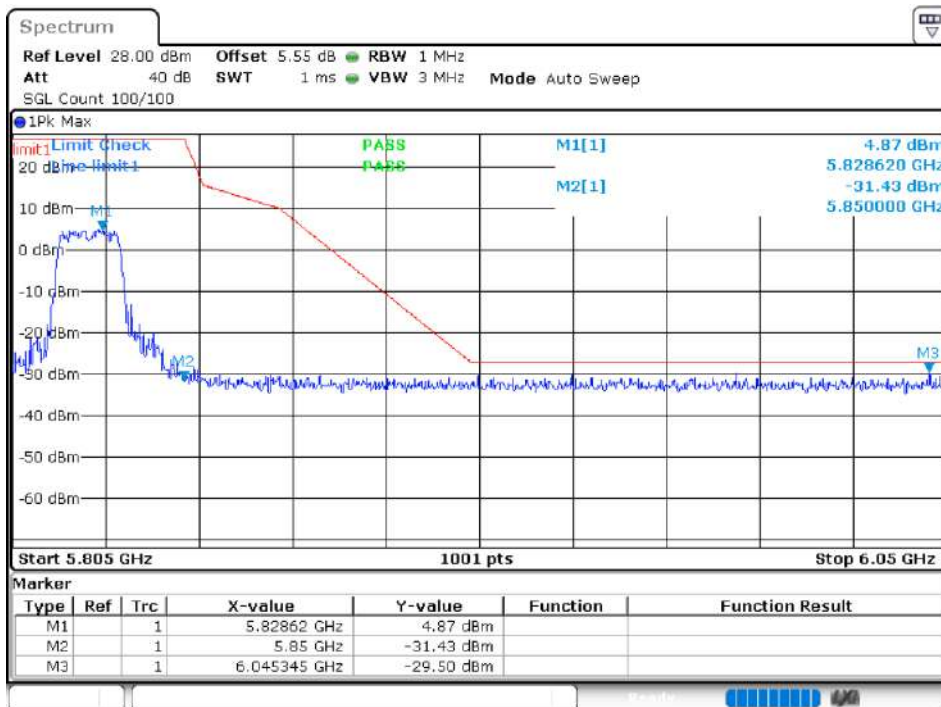
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-31.35	-27	Pass
NVNT	a	5825	Ant1	-29.5	-27	Pass
NVNT	n20	5745	Ant1	-30.43	-27	Pass
NVNT	n20	5825	Ant1	-30.01	-27	Pass
NVNT	n40	5755	Ant1	-30.58	-27	Pass
NVNT	n40	5795	Ant1	-29.78	-27	Pass
NVNT	ac20	5745	Ant1	-30.53	-27	Pass
NVNT	ac20	5825	Ant1	-29.22	-27	Pass
NVNT	ac40	5755	Ant1	-31.42	-27	Pass
NVNT	ac40	5795	Ant1	-29.63	-27	Pass
NVNT	ac80	5755	Ant1	-30.39	-27	Pass
NVNT	ac80	5755	Ant1	-30.86	-27	Pass

Test Graphs

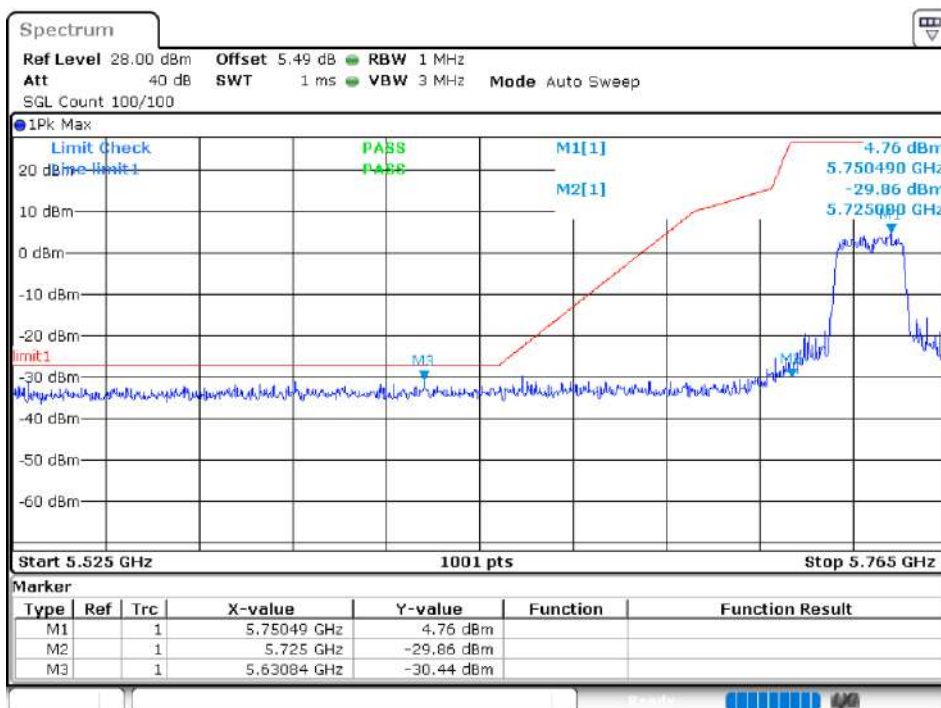
Band Edge NVNT a 5745MHz Low Ant1



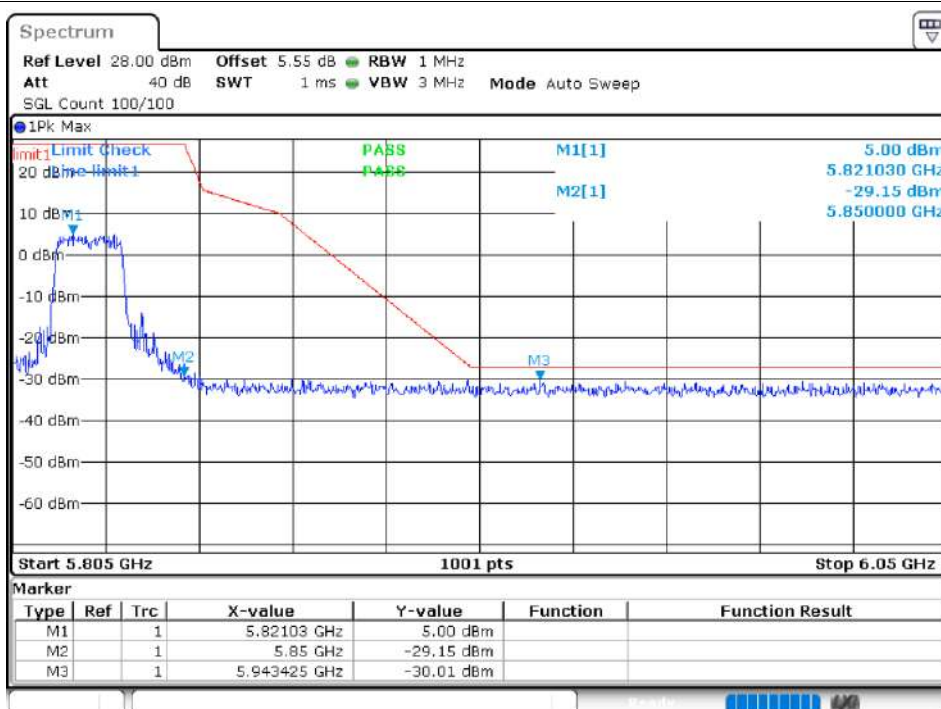
Band Edge NVNT a 5825MHz High Ant1



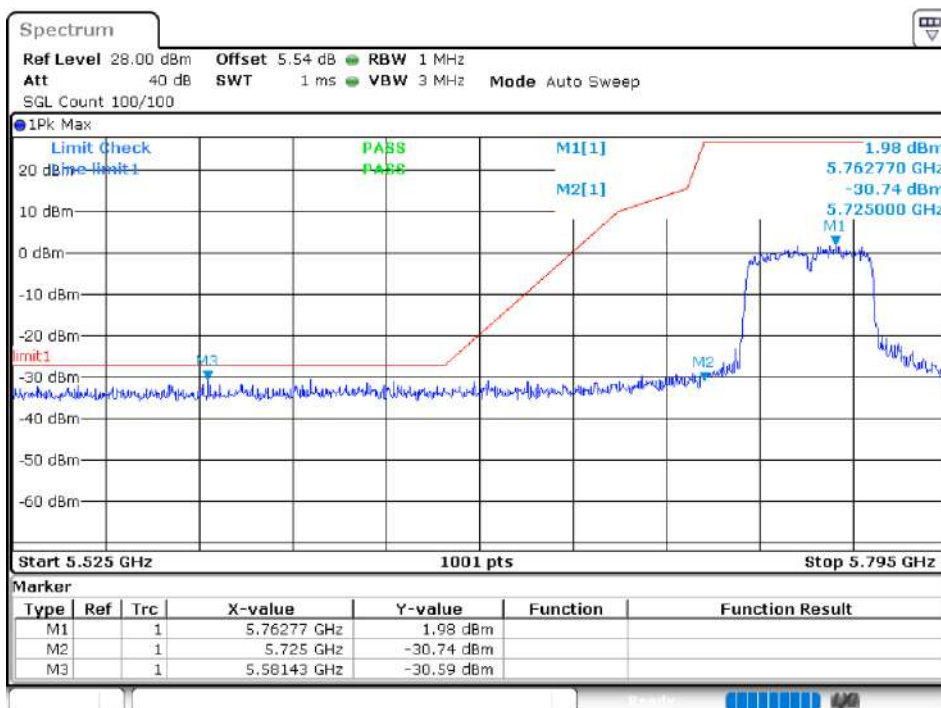
Band Edge NVNT n20 5745MHz Low Ant1



Band Edge NVNT n20 5825MHz High Ant1



Band Edge NVNT n40 5755MHz Low Ant1



Band Edge NVNT n40 5795MHz High Ant1

