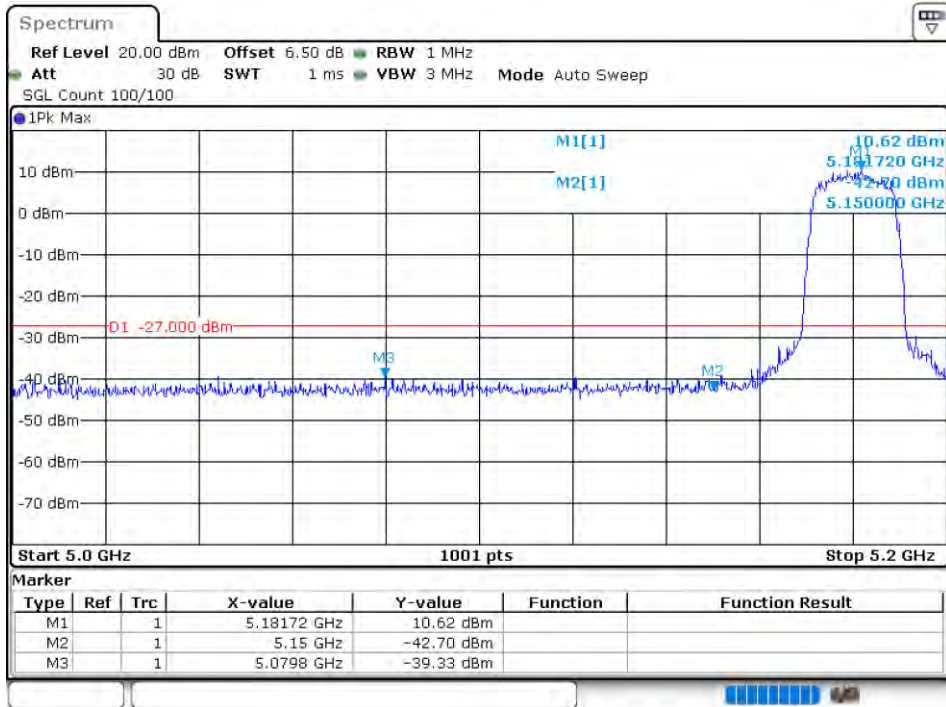
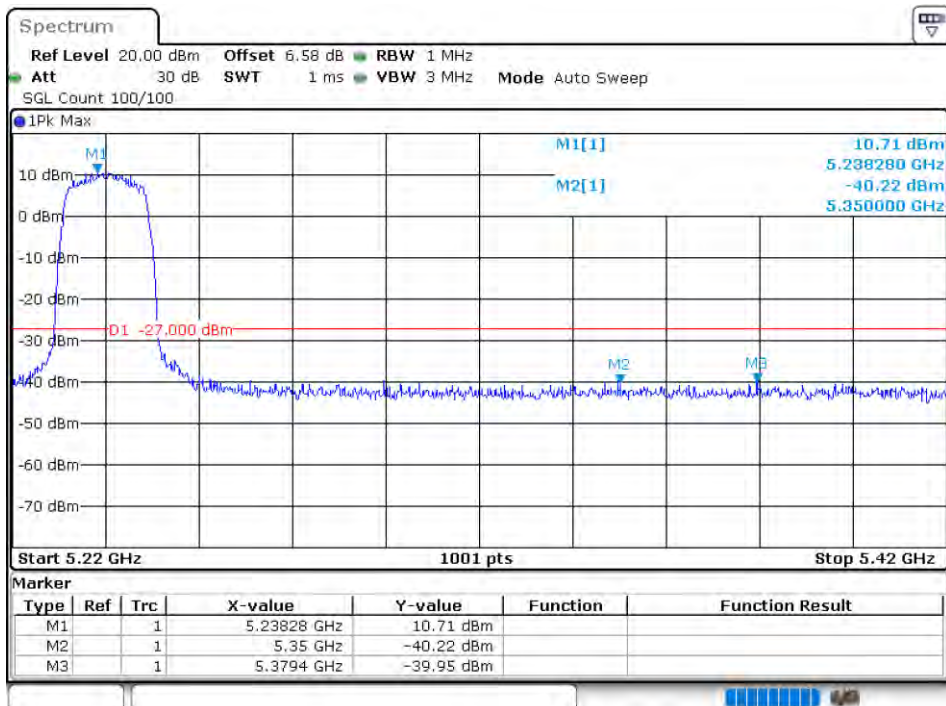


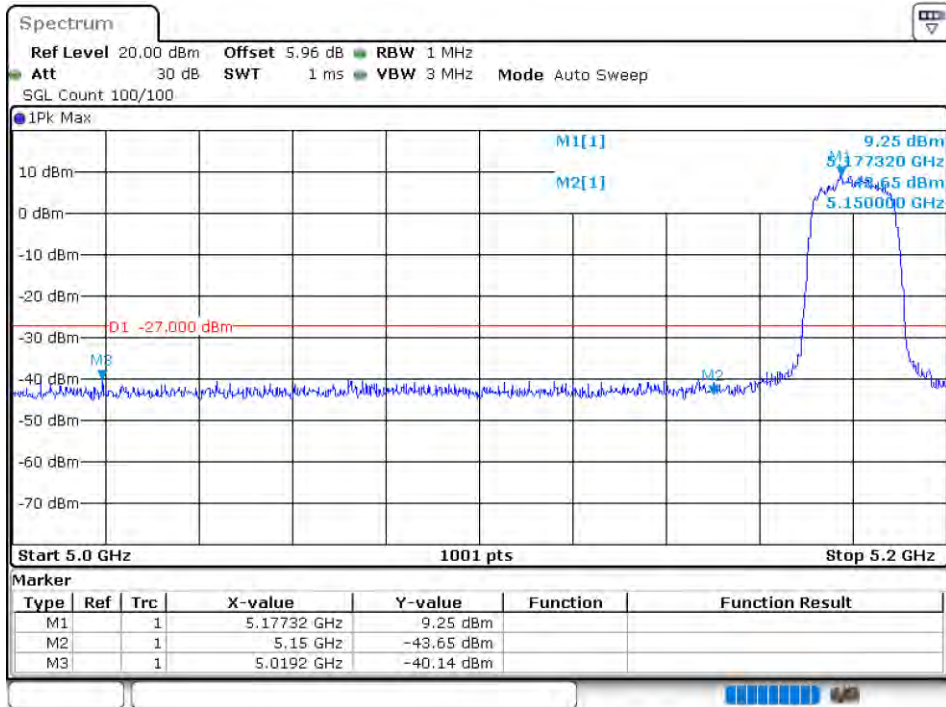
Band Edge NVNT ac20 5180MHz Low Ant1



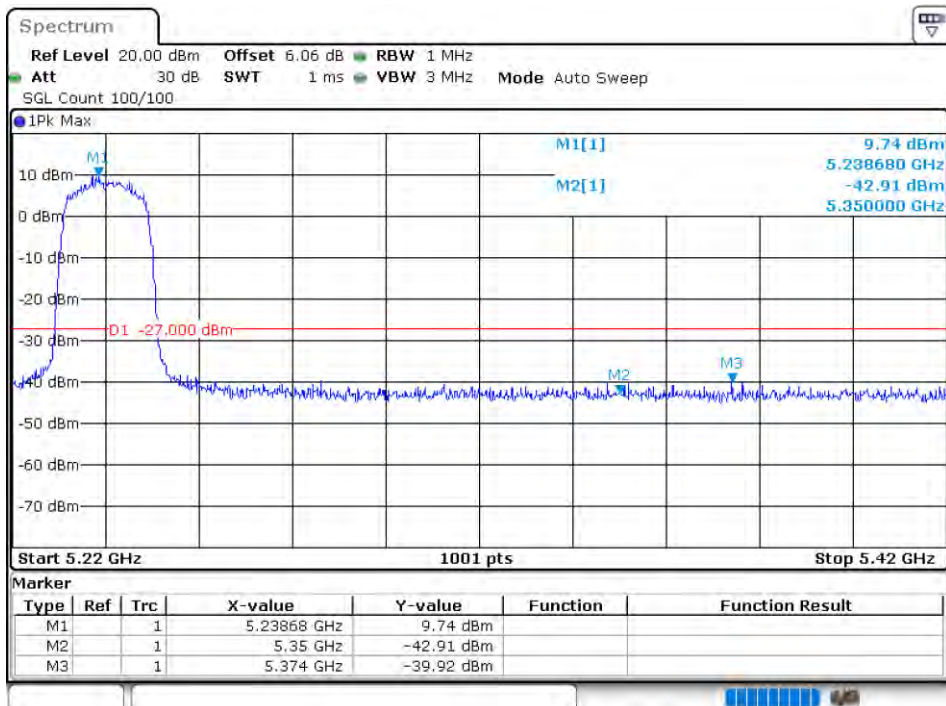
Band Edge NVNT ac20 5240MHz High Ant1



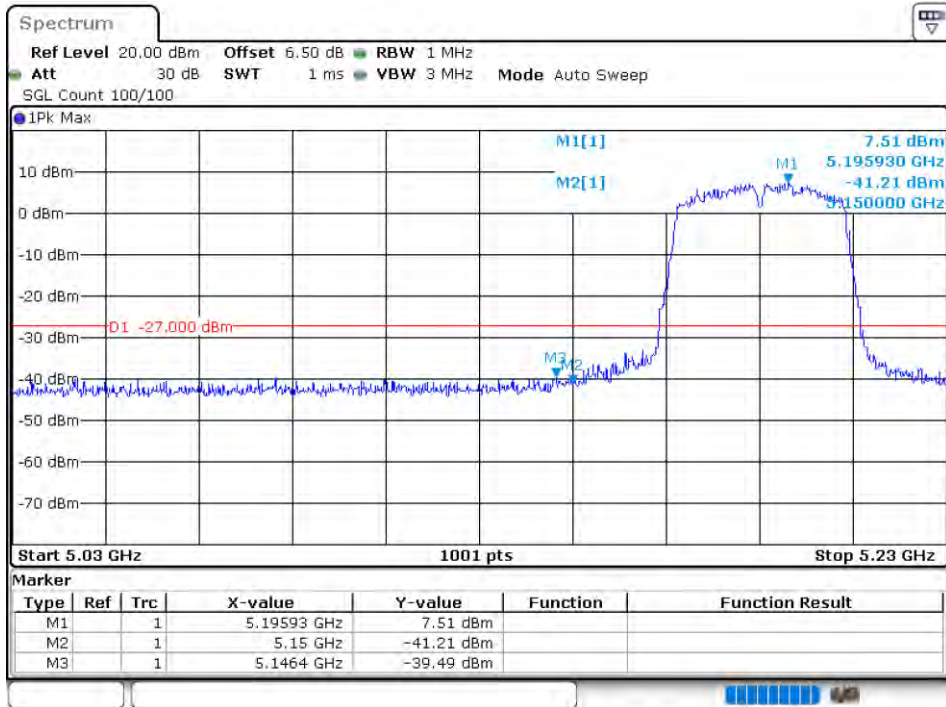
Band Edge NVNT ac20 5180MHz Low Ant2



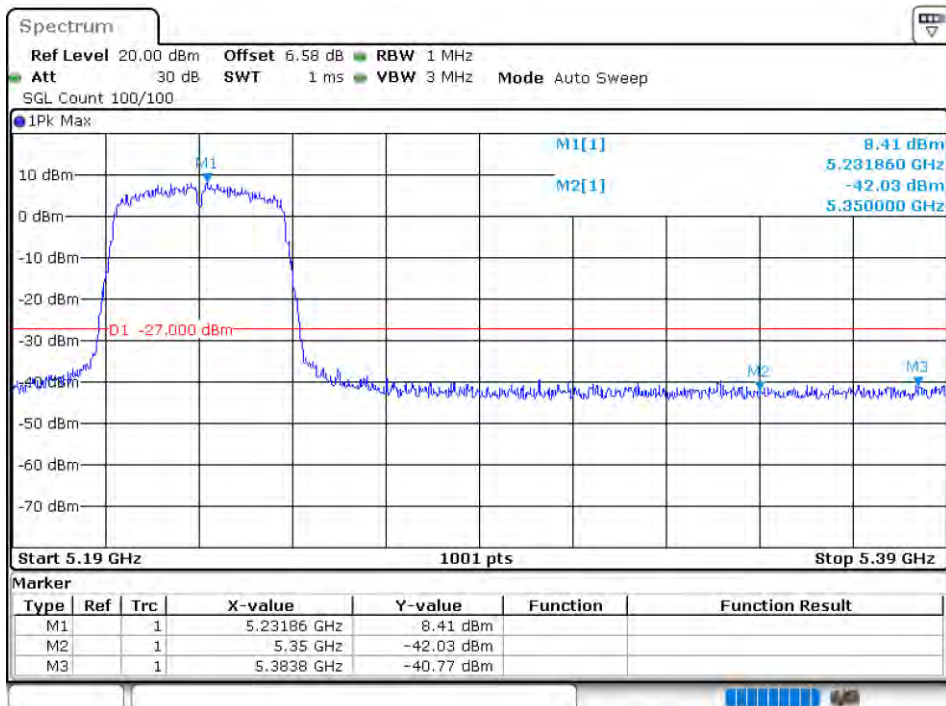
Band Edge NVNT ac20 5240MHz High Ant2



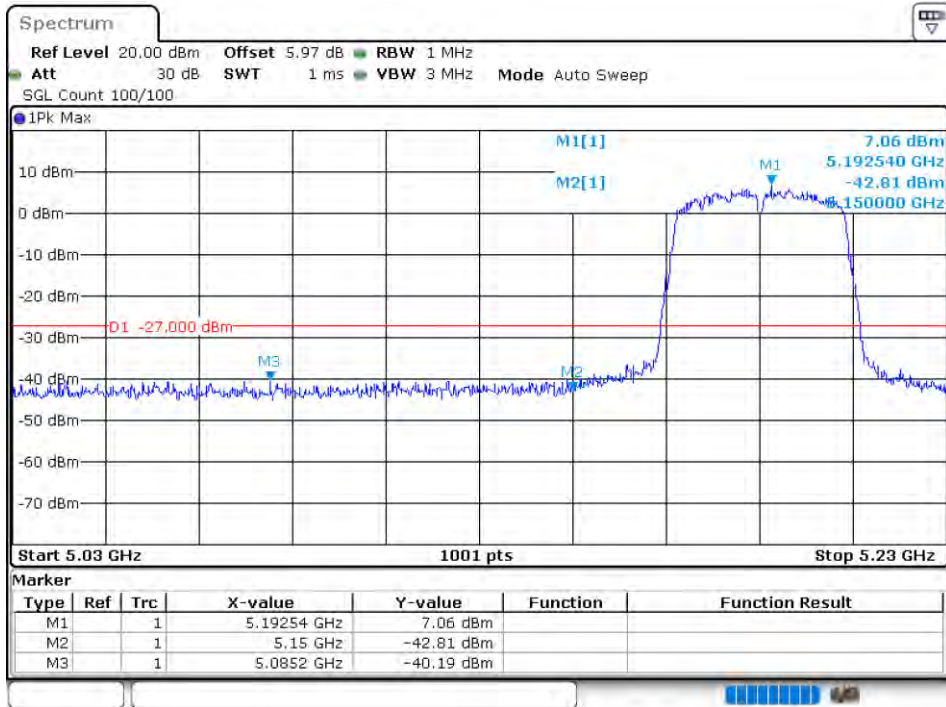
Band Edge NVNT ac40 5190MHz Low Ant1



Band Edge NVNT ac40 5230MHz High Ant1



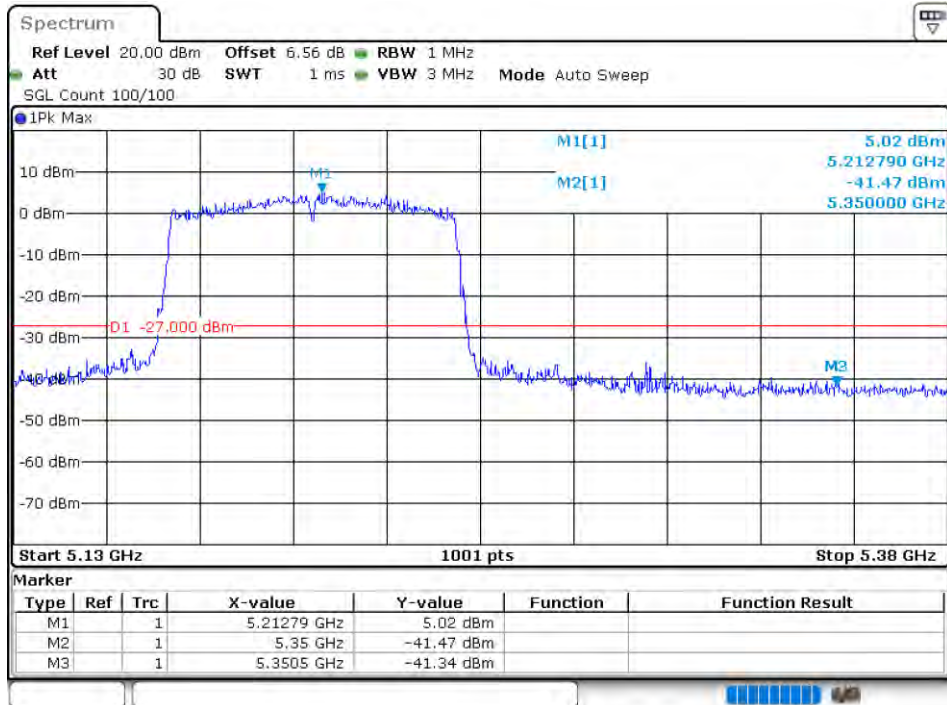
Band Edge NVNT ac40 5190MHz Low Ant2



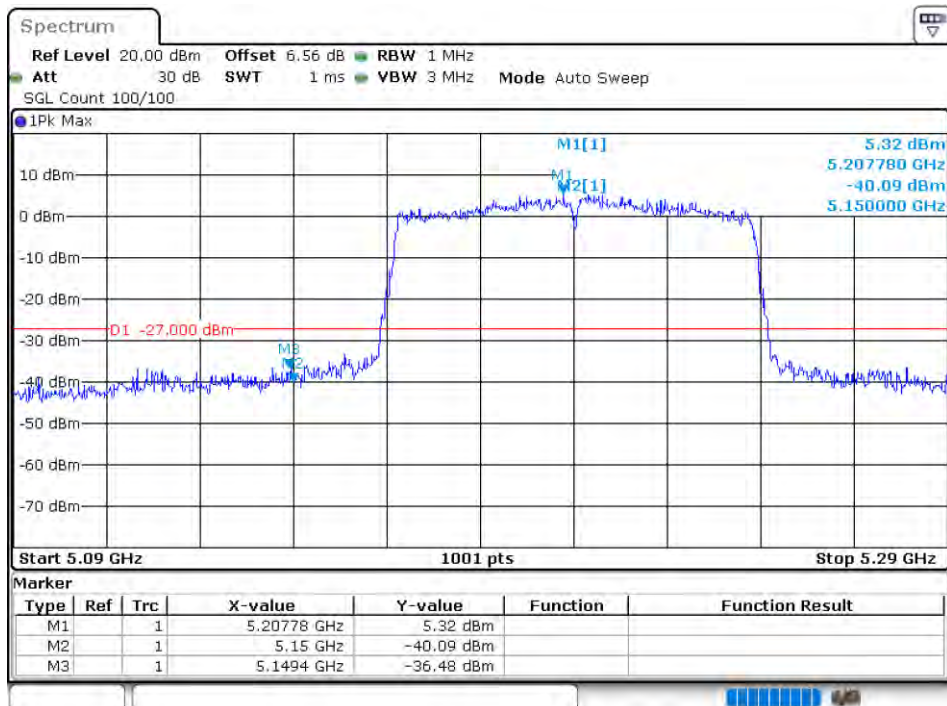
Band Edge NVNT ac40 5230MHz High Ant2



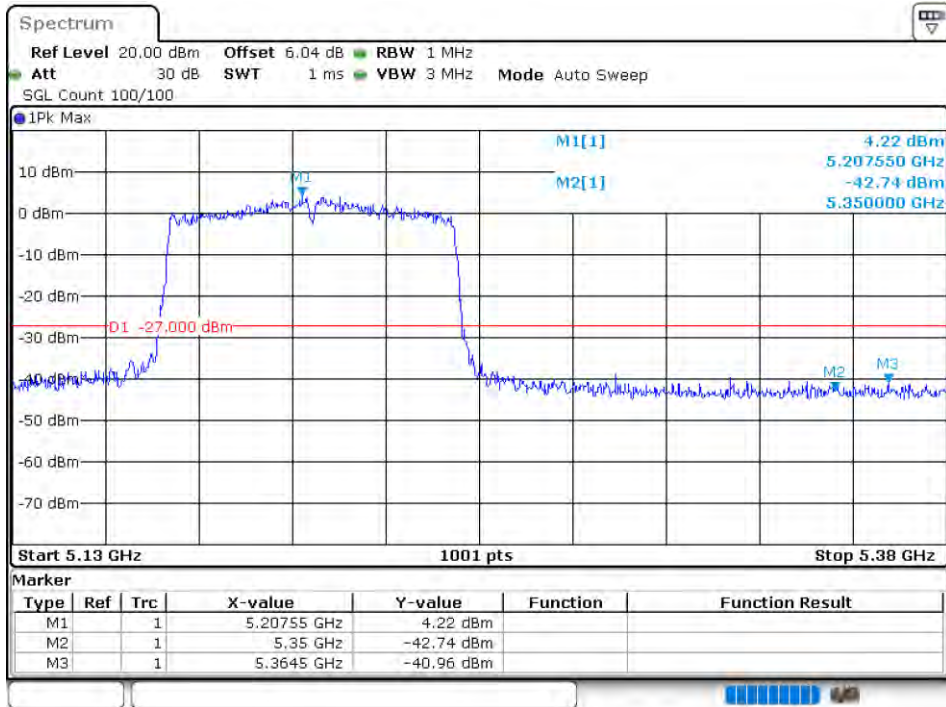
Band Edge NVNT ac80 5210MHz High Ant1



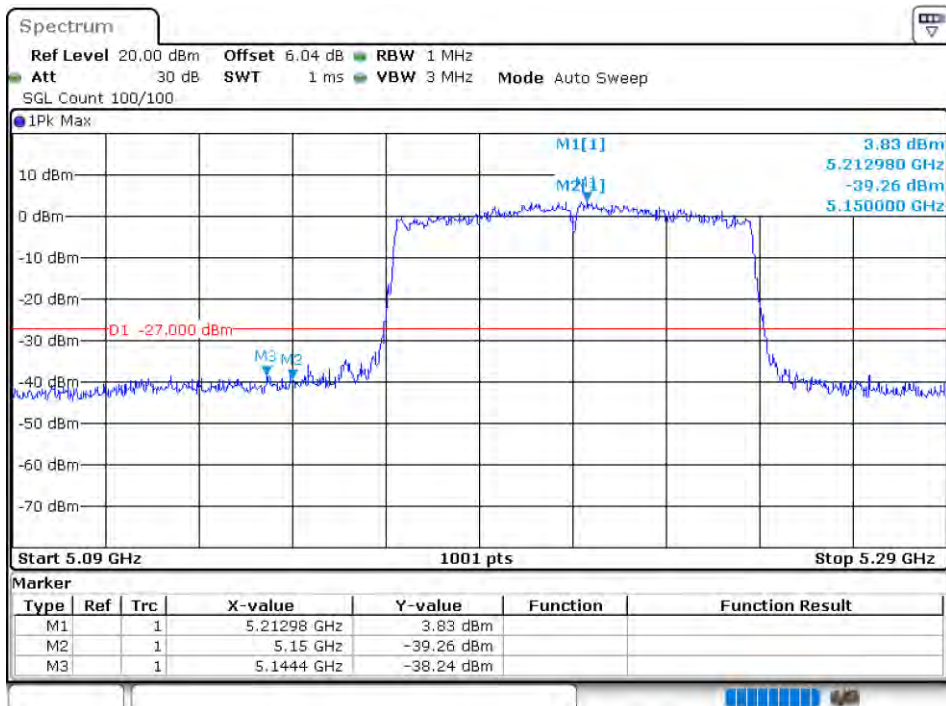
Band Edge NVNT ac80 5210MHz Low Ant1



Band Edge NVNT ac80 5210MHz High Ant2



Band Edge NVNT ac80 5210MHz Low Ant2

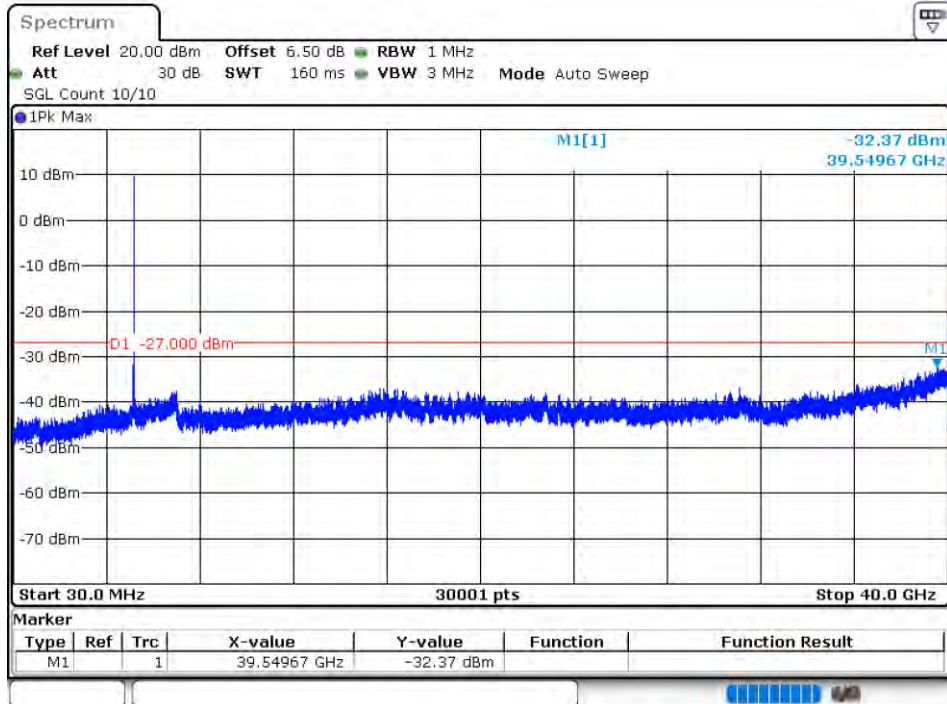


Conducted RF Spurious Emission

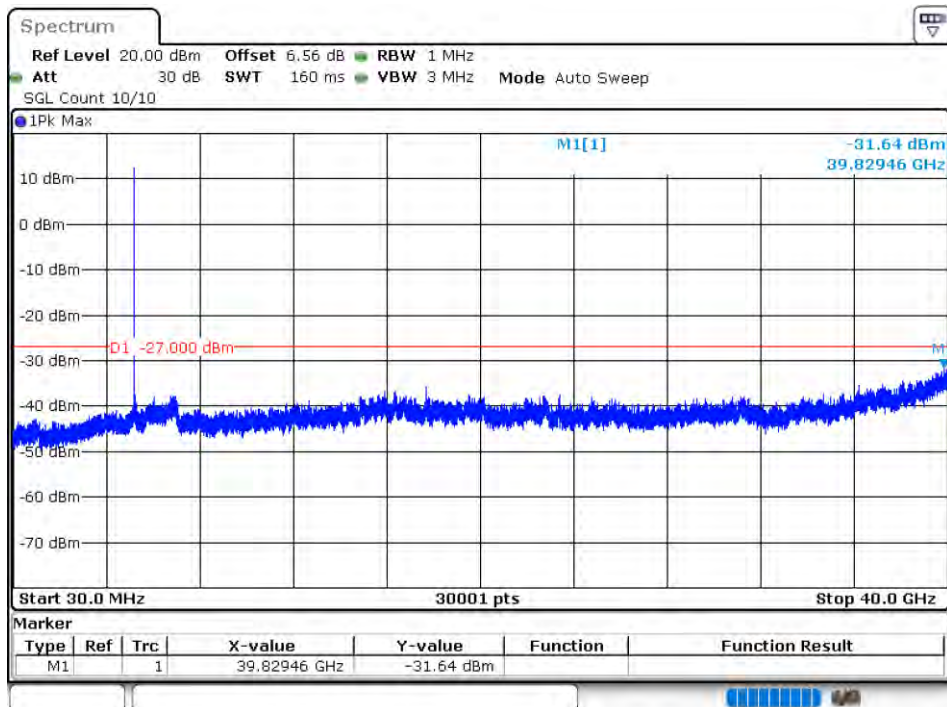
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-32.37	-27	Pass
NVNT	a	5200	Ant1	-31.64	-27	Pass
NVNT	a	5240	Ant1	-31.38	-27	Pass
NVNT	a	5180	Ant2	-31.47	-27	Pass
NVNT	a	5200	Ant2	-31.51	-27	Pass
NVNT	a	5240	Ant2	-31.32	-27	Pass
NVNT	n20	5180	Ant1	-31.44	-27	Pass
NVNT	n20	5200	Ant1	-32.02	-27	Pass
NVNT	n20	5240	Ant1	-31.74	-27	Pass
NVNT	n20	5180	Ant2	-31.64	-27	Pass
NVNT	n20	5200	Ant2	-31.5	-27	Pass
NVNT	n20	5240	Ant2	-31.61	-27	Pass
NVNT	n40	5190	Ant1	-31.74	-27	Pass
NVNT	n40	5230	Ant1	-31.38	-27	Pass
NVNT	n40	5190	Ant2	-31.13	-27	Pass
NVNT	n40	5230	Ant2	-31.33	-27	Pass
NVNT	ac20	5180	Ant1	-31.53	-27	Pass
NVNT	ac20	5200	Ant1	-31.95	-27	Pass
NVNT	ac20	5240	Ant1	-31.38	-27	Pass
NVNT	ac20	5180	Ant2	-30.85	-27	Pass
NVNT	ac20	5200	Ant2	-31.06	-27	Pass
NVNT	ac20	5240	Ant2	-31.45	-27	Pass
NVNT	ac40	5190	Ant1	-32.11	-27	Pass
NVNT	ac40	5230	Ant1	-31.95	-27	Pass
NVNT	ac40	5190	Ant2	-30.99	-27	Pass
NVNT	ac40	5230	Ant2	-30.96	-27	Pass
NVNT	ac80	5210	Ant1	-32.15	-27	Pass
NVNT	ac80	5210	Ant2	-31.51	-27	Pass

Test Graphs

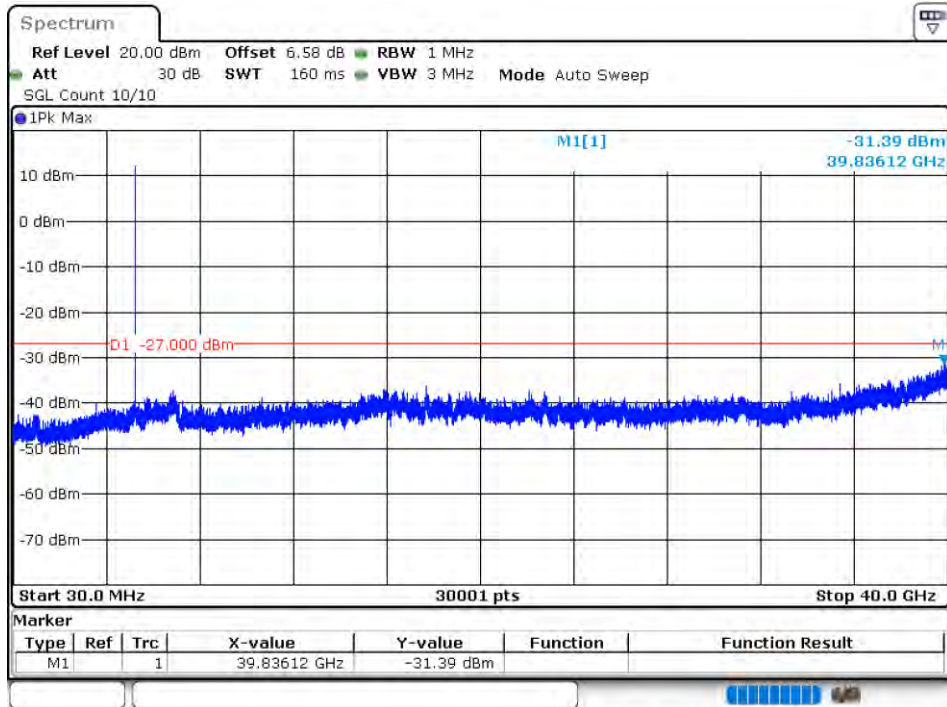
Tx. Spurious NVNT a 5180MHz Ant1 Emission



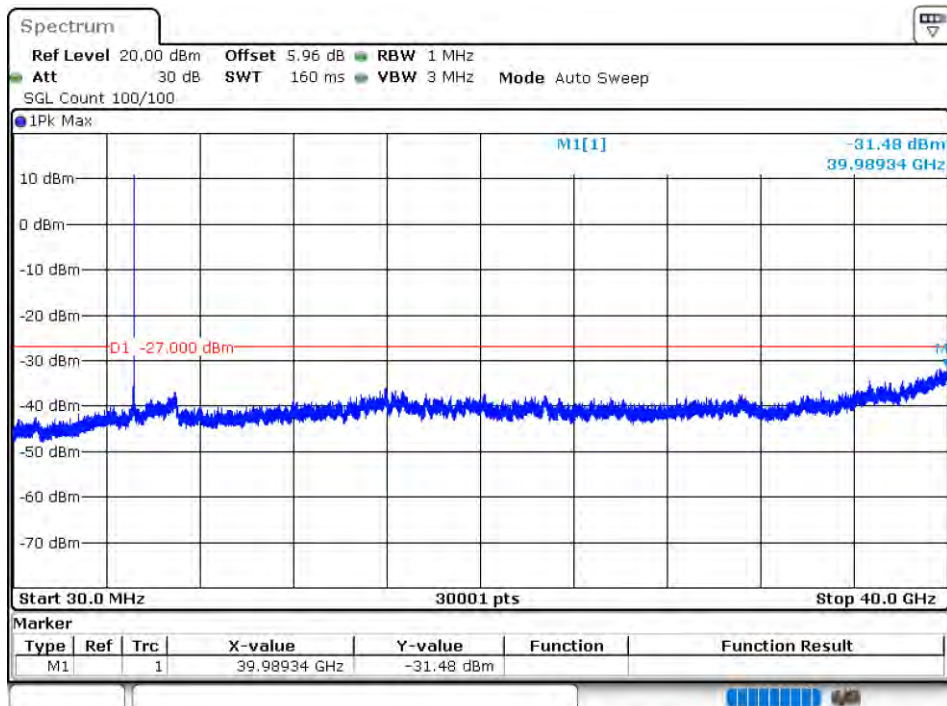
Tx. Spurious NVNT a 5200MHz Ant1 Emission



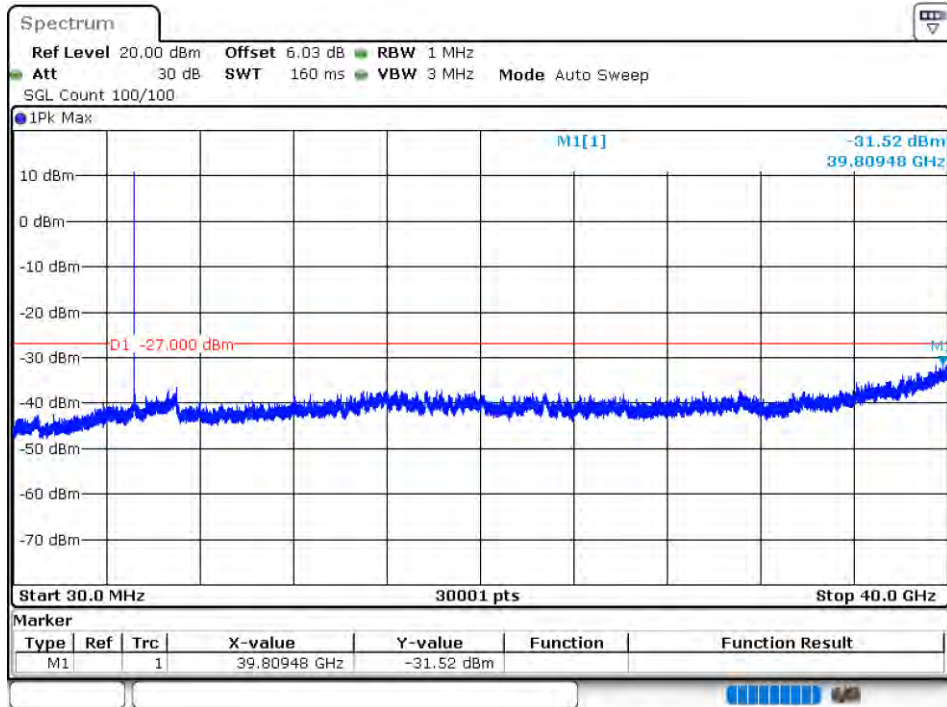
Tx. Spurious NVNT a 5240MHz Ant1 Emission



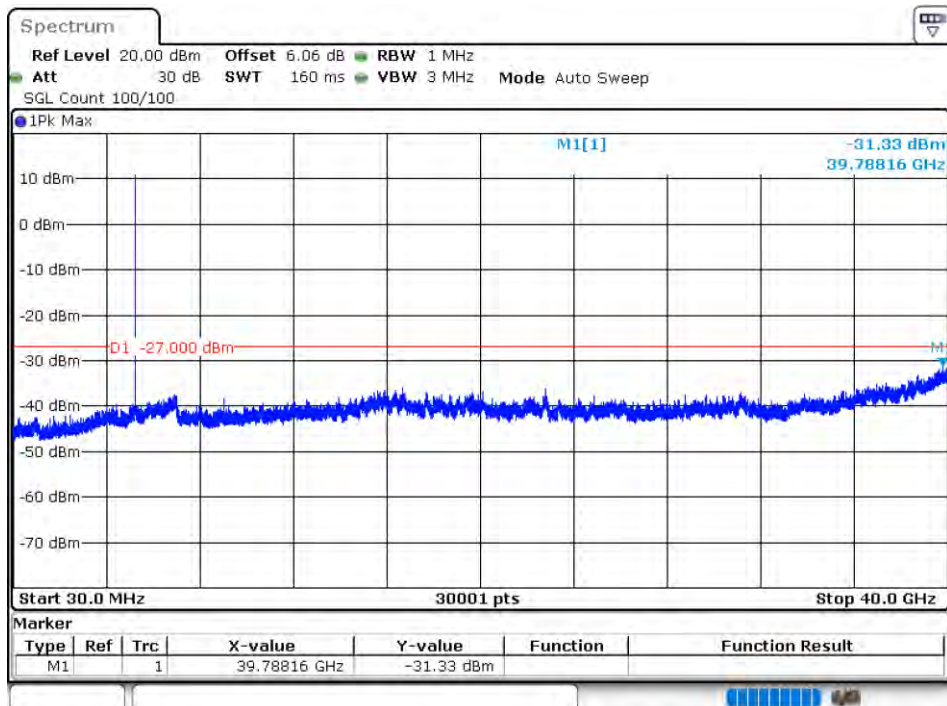
Tx. Spurious NVNT a 5180MHz Ant2 Emission



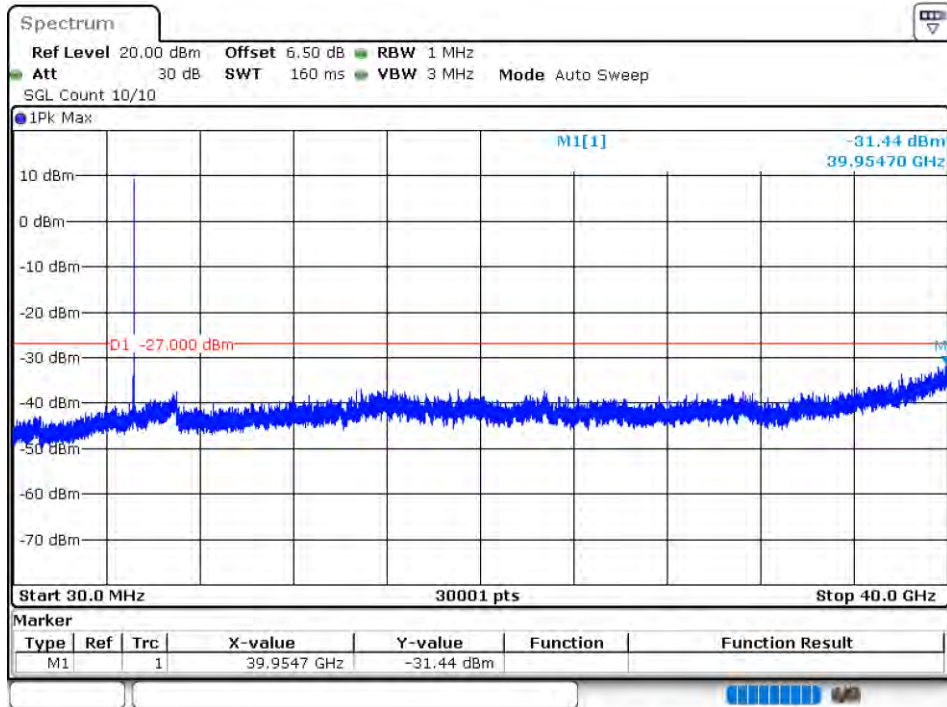
Tx. Spurious NVNT a 5200MHz Ant2 Emission



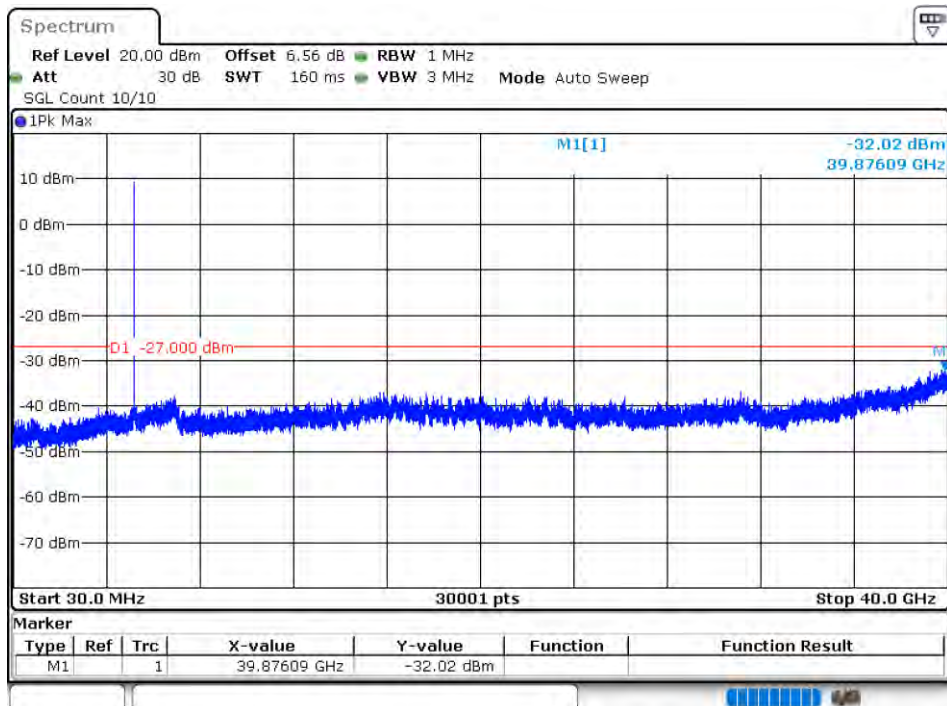
Tx. Spurious NVNT a 5240MHz Ant2 Emission



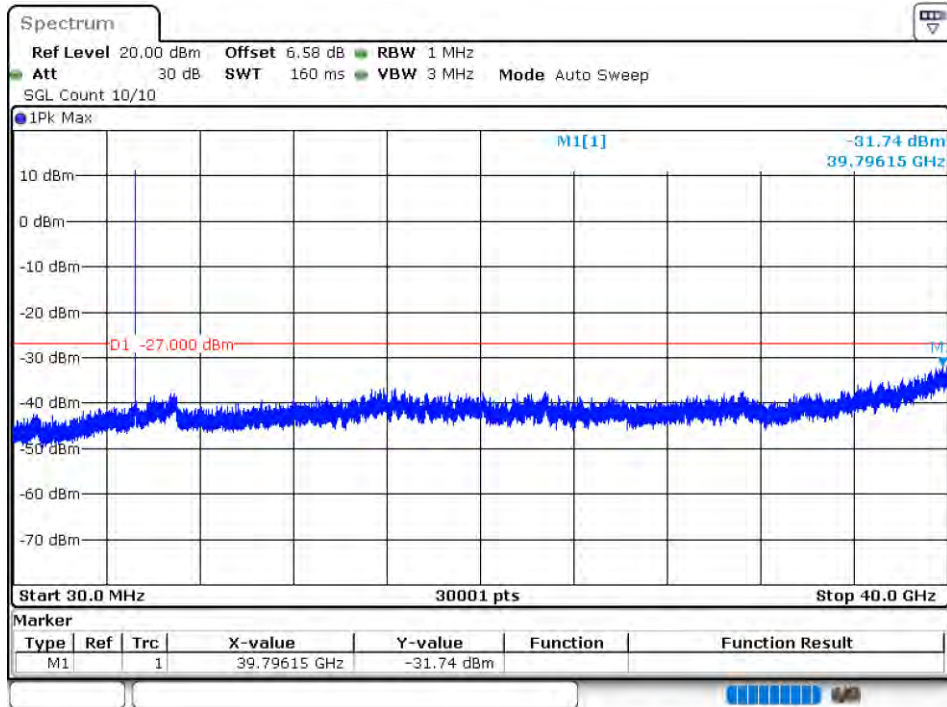
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



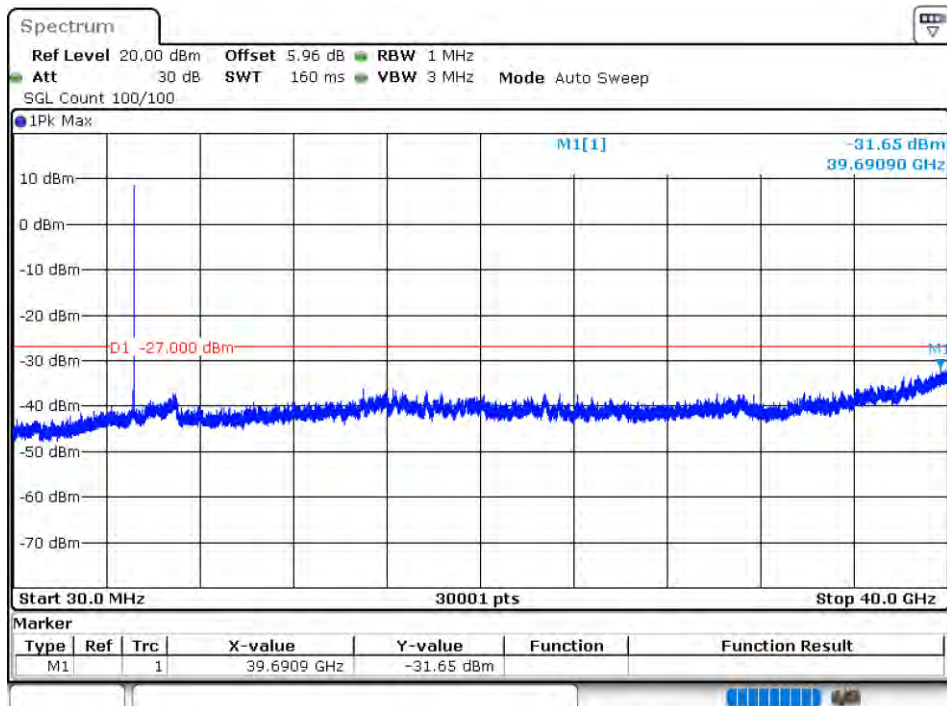
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



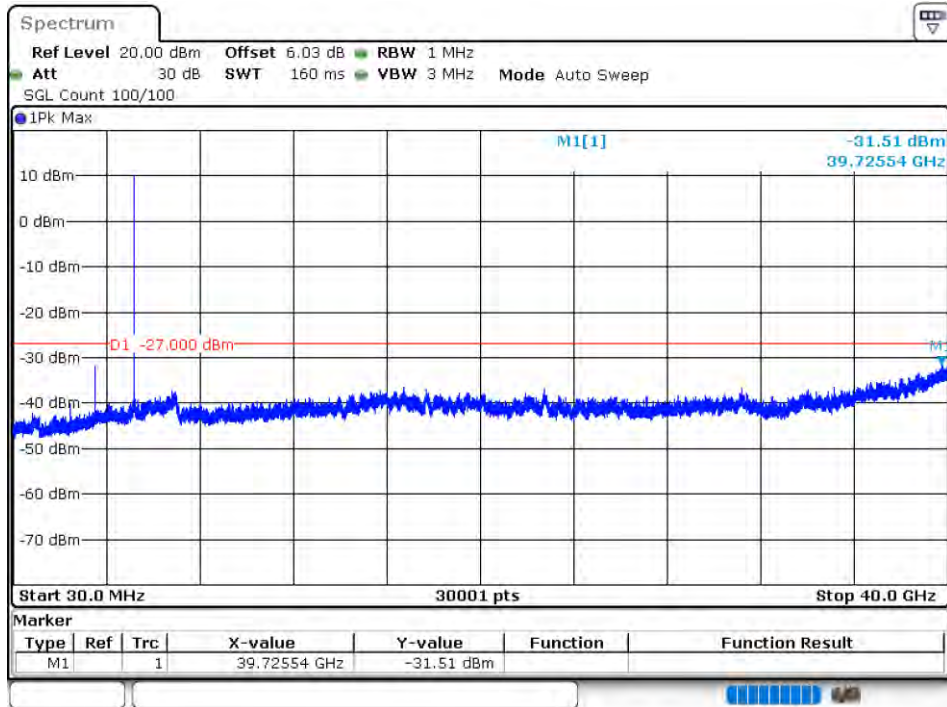
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



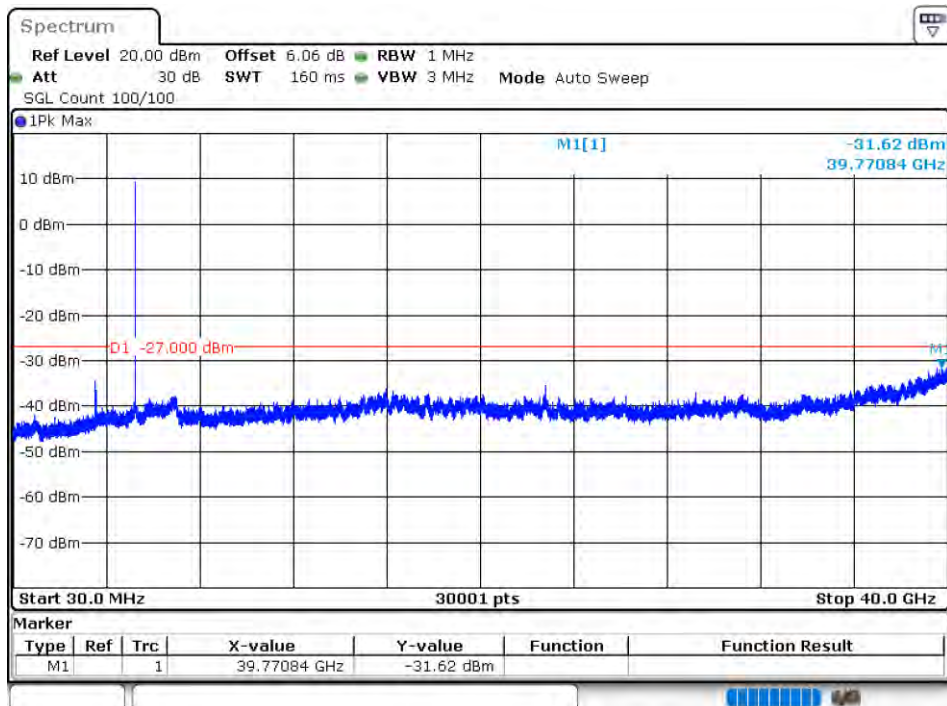
Tx. Spurious NVNT n20 5180MHz Ant2 Emission



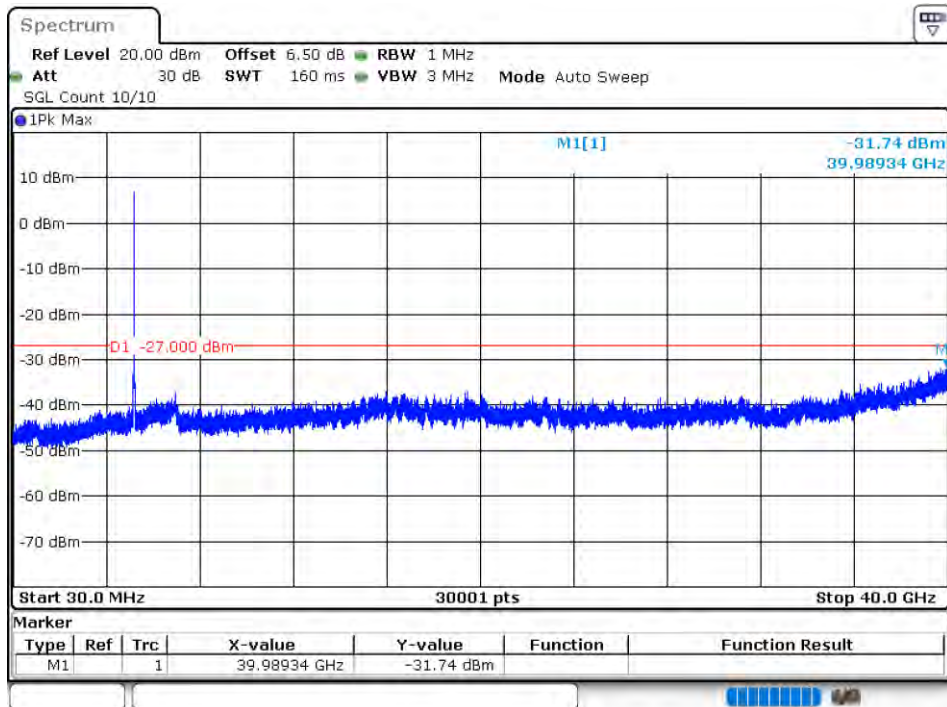
Tx. Spurious NVNT n20 5200MHz Ant2 Emission



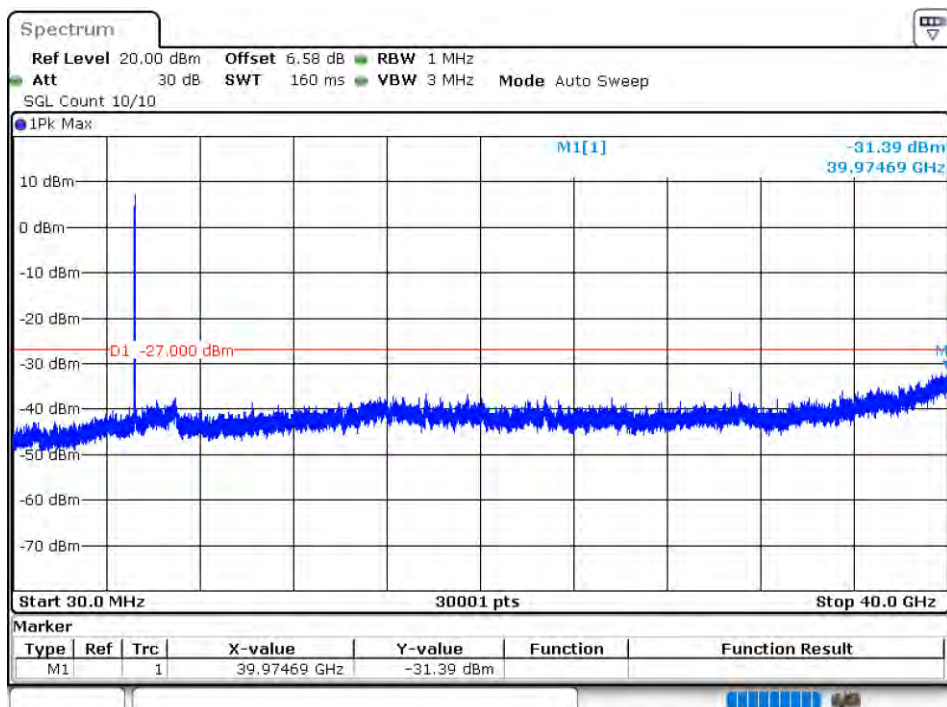
Tx. Spurious NVNT n20 5240MHz Ant2 Emission



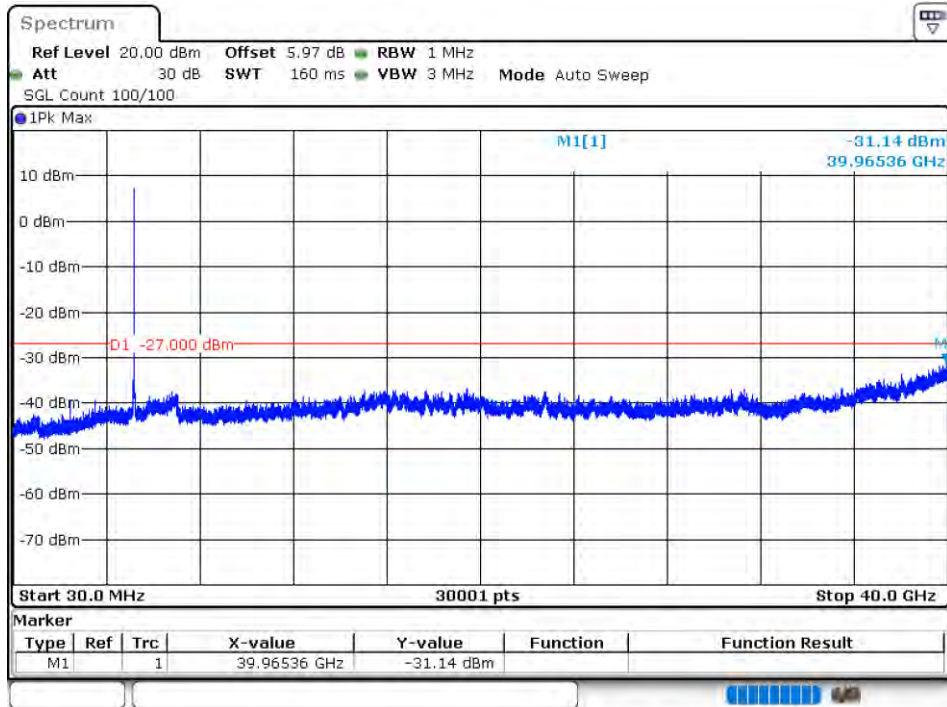
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



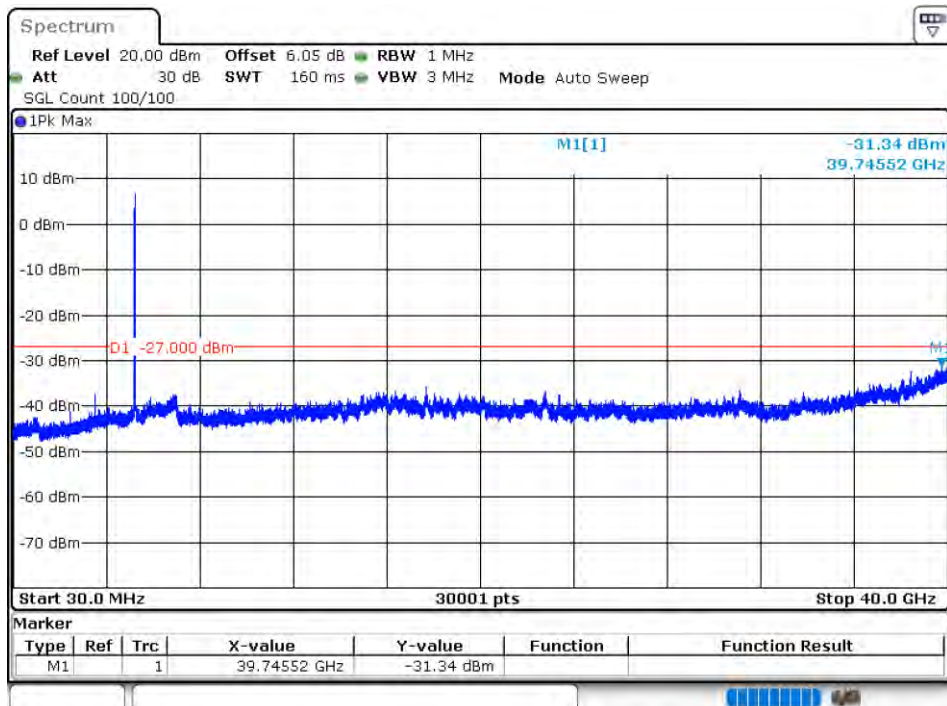
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



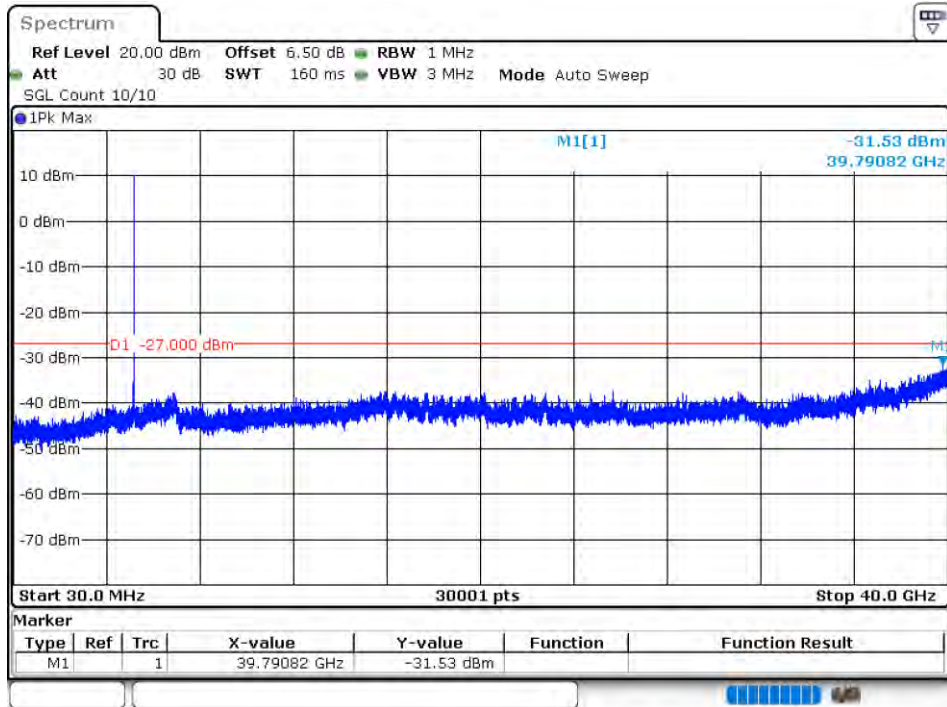
Tx. Spurious NVNT n40 5190MHz Ant2 Emission



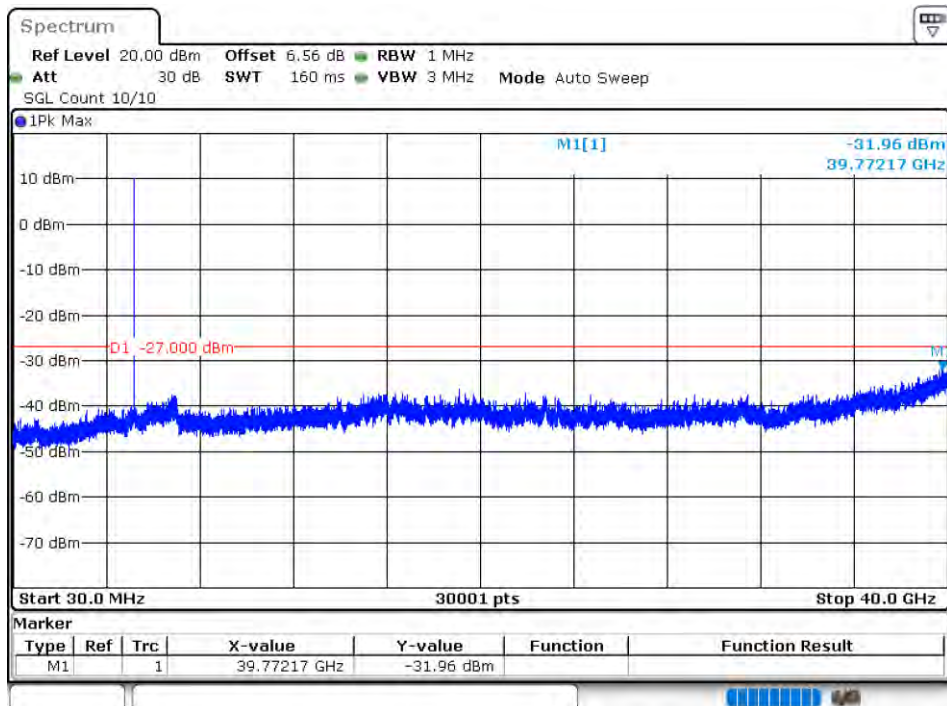
Tx. Spurious NVNT n40 5230MHz Ant2 Emission



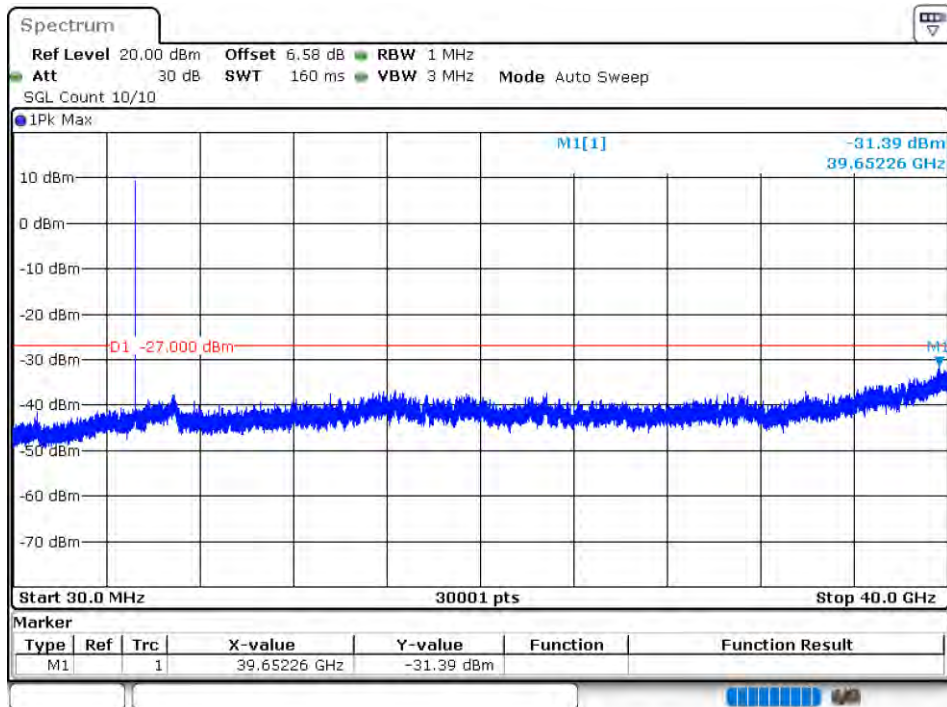
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



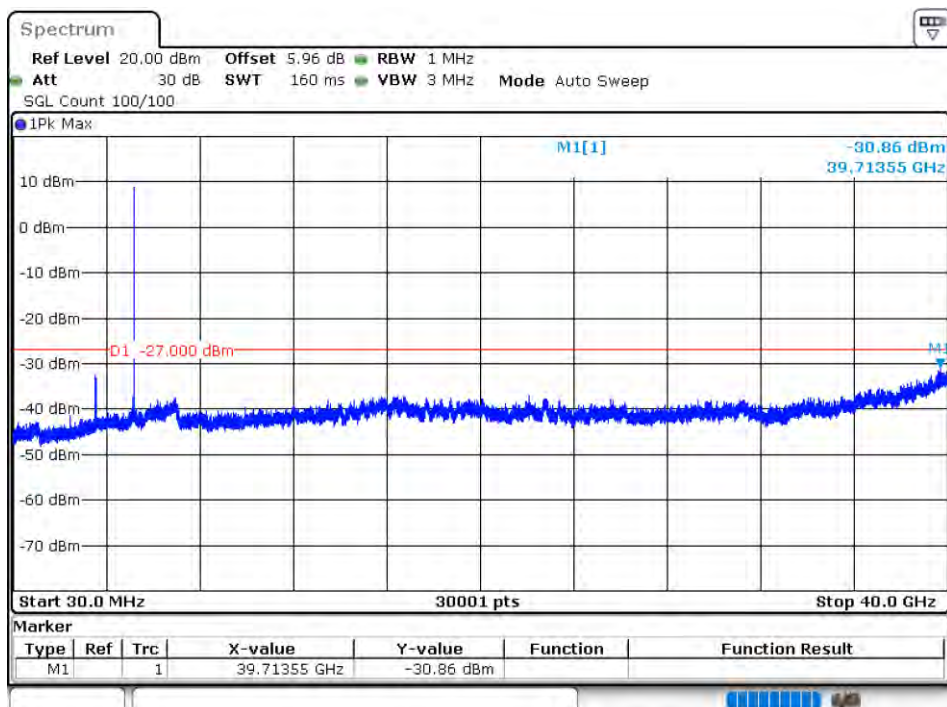
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



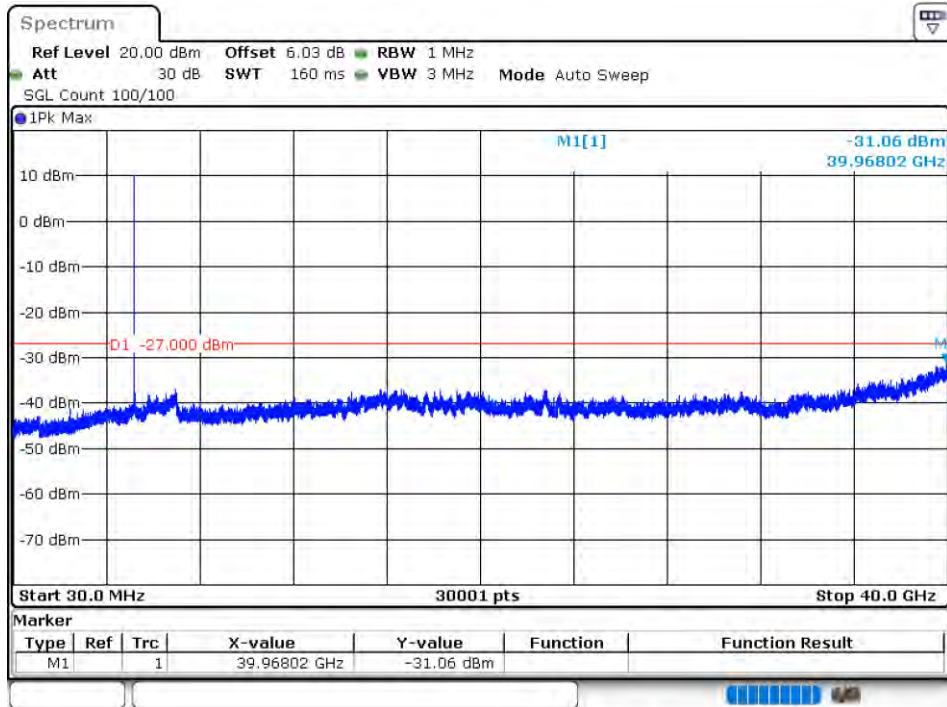
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



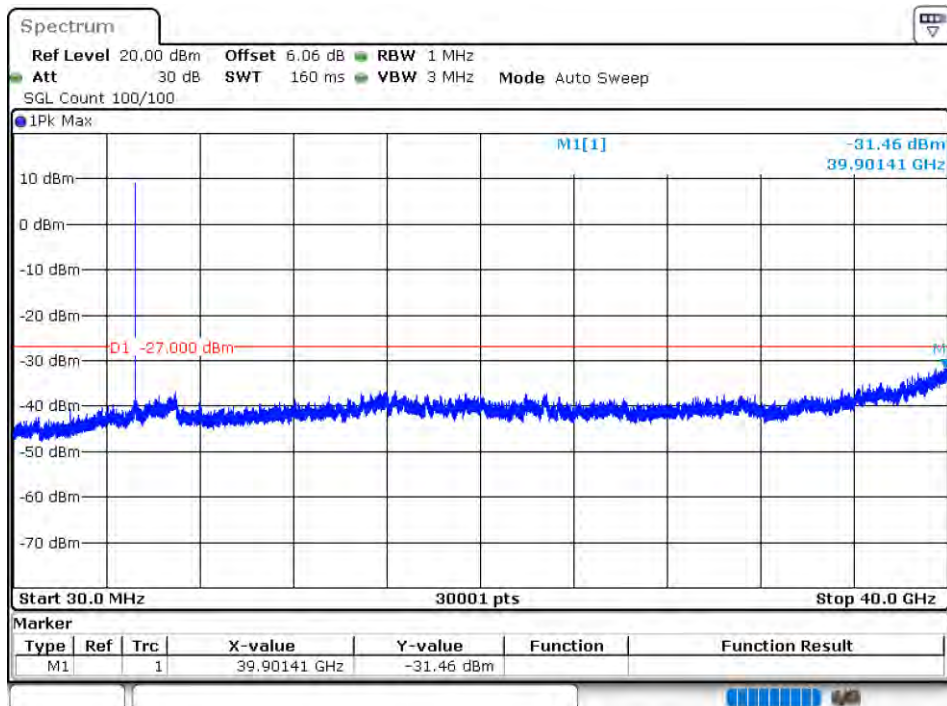
Tx. Spurious NVNT ac20 5180MHz Ant2 Emission



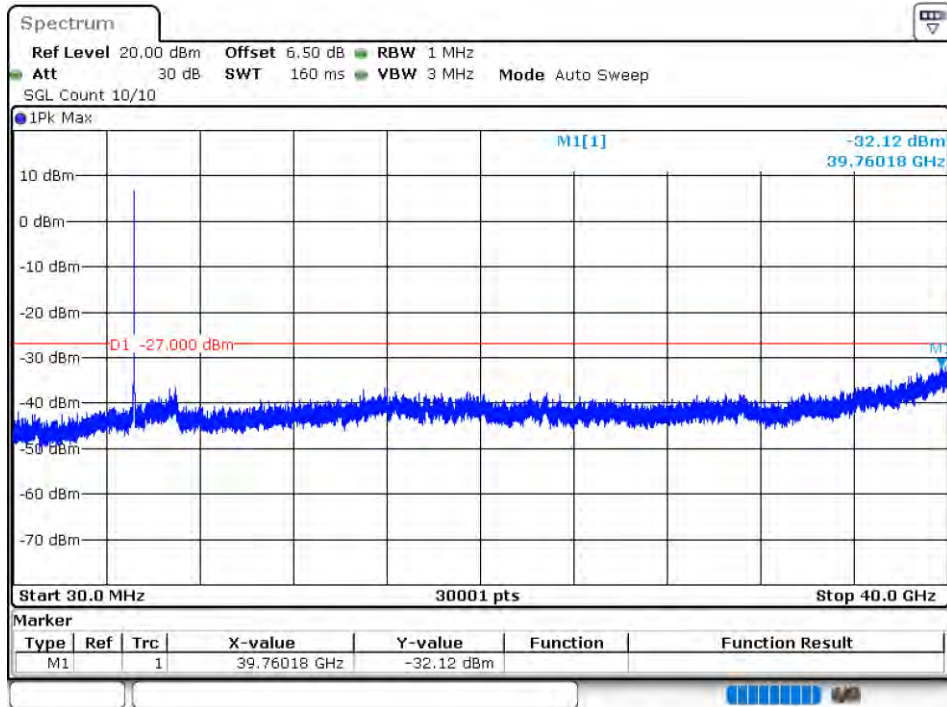
Tx. Spurious NVNT ac20 5200MHz Ant2 Emission



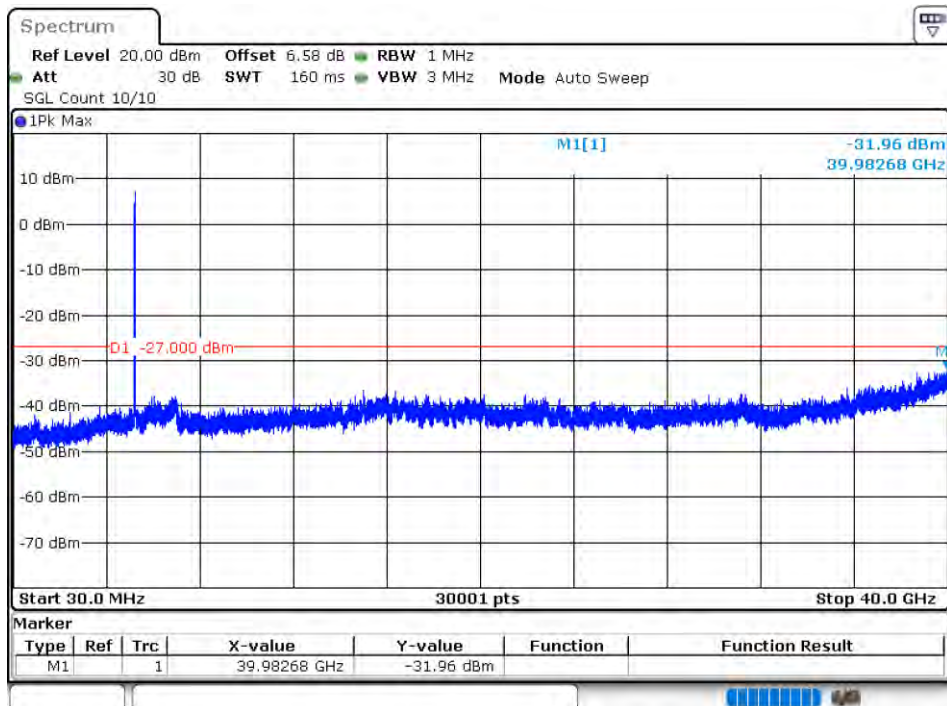
Tx. Spurious NVNT ac20 5240MHz Ant2 Emission



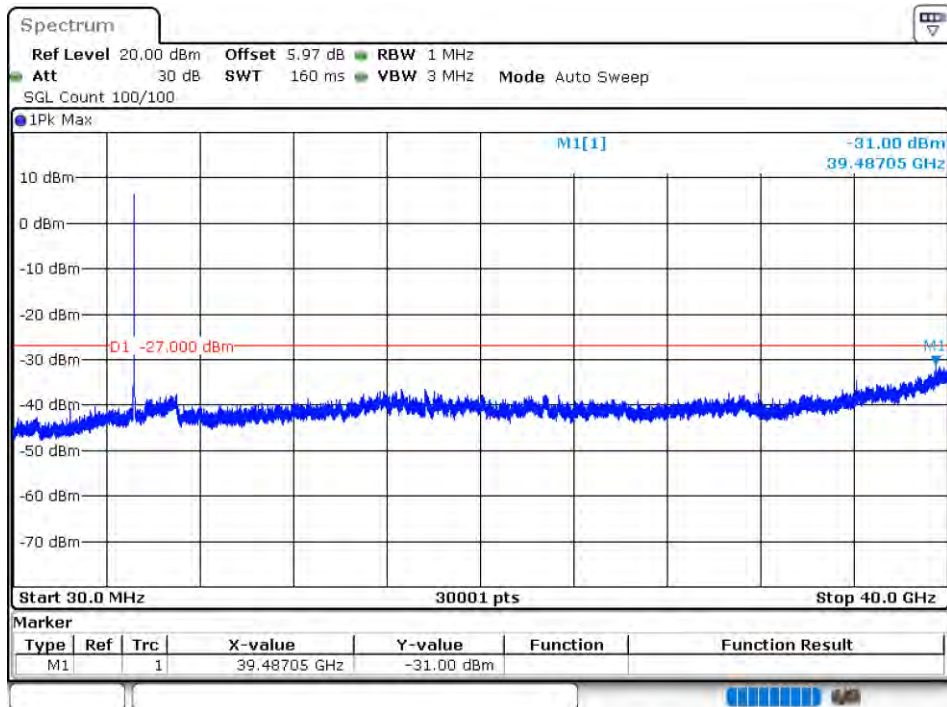
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



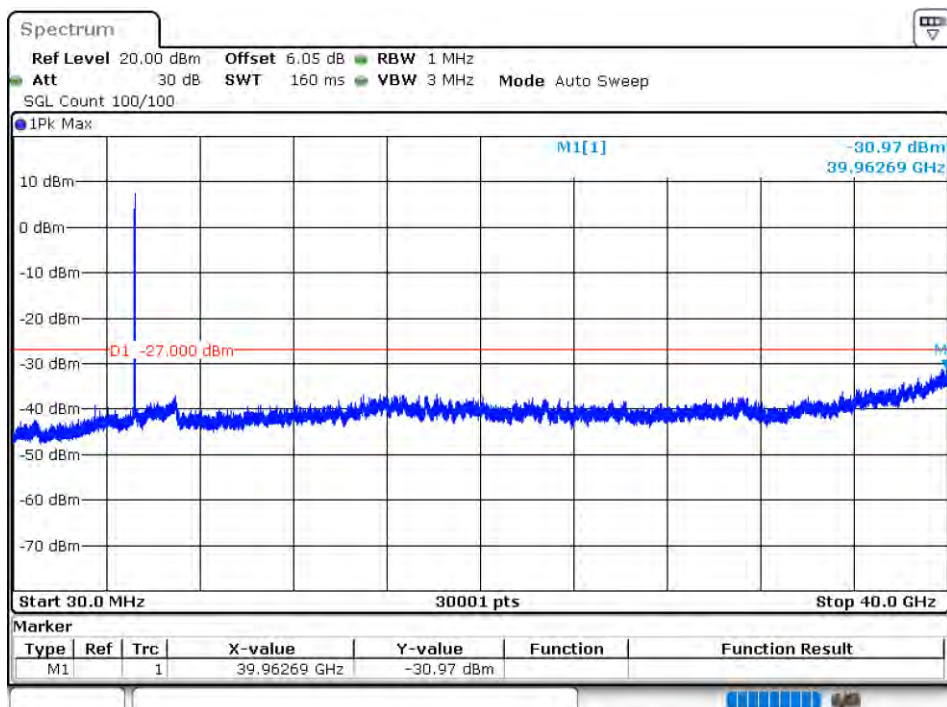
Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



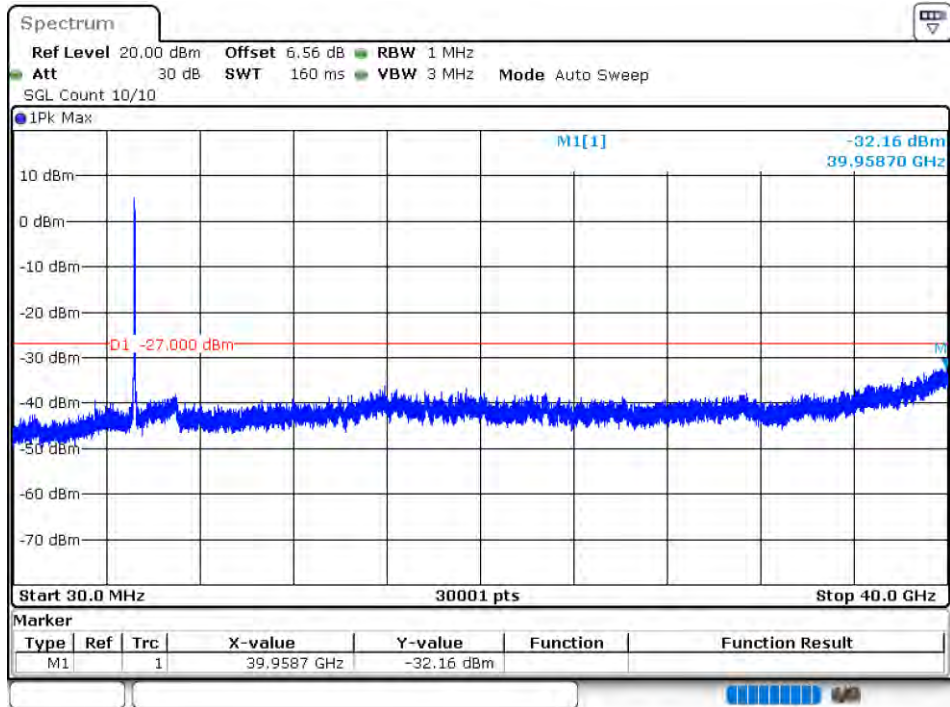
Tx. Spurious NVNT ac40 5190MHz Ant2 Emission



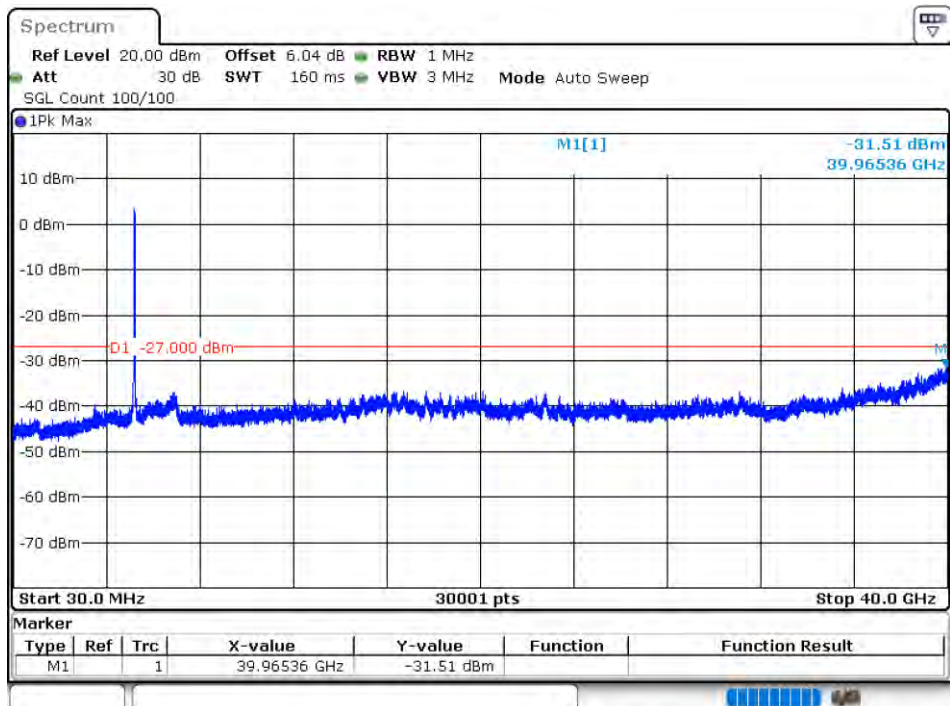
Tx. Spurious NVNT ac40 5230MHz Ant2 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant2 Emission



5.2G WIFI MIMO

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	9.18	--	Pass
NVNT	ac20	5180	Ant2	10.02	--	Pass
NVNT	ac20	5180	Sum	12.63	24	Pass
NVNT	ac20	5200	Ant1	9.26	--	Pass
NVNT	ac20	5200	Ant2	10.18	--	Pass
NVNT	ac20	5200	Sum	12.75	24	Pass
NVNT	ac20	5240	Ant1	9.49	--	Pass
NVNT	ac20	5240	Ant2	10.21	--	Pass
NVNT	ac20	5240	Sum	12.88	24	Pass
NVNT	ac40	5190	Ant1	9.06	--	Pass
NVNT	ac40	5190	Ant2	10.12	--	Pass
NVNT	ac40	5190	Sum	12.63	24	Pass
NVNT	ac40	5230	Ant1	9.48	--	Pass
NVNT	ac40	5230	Ant2	10.17	--	Pass
NVNT	ac40	5230	Sum	12.85	24	Pass
NVNT	ac80	5210	Ant1	9.18	--	Pass
NVNT	ac80	5210	Ant2	10.05	--	Pass
NVNT	ac80	5210	Sum	12.65	24	Pass
NVNT	n20	5180	Ant1	9.49	--	Pass
NVNT	n20	5180	Ant2	10.05	--	Pass
NVNT	n20	5180	Sum	12.79	24	Pass
NVNT	n20	5200	Ant1	9.27	--	Pass
NVNT	n20	5200	Ant2	10.25	--	Pass
NVNT	n20	5200	Sum	12.8	24	Pass
NVNT	n20	5240	Ant1	9.64	--	Pass
NVNT	n20	5240	Ant2	10.22	--	Pass
NVNT	n20	5240	Sum	12.95	24	Pass
NVNT	n40	5190	Ant1	9.3	--	Pass
NVNT	n40	5190	Ant2	10.08	--	Pass
NVNT	n40	5190	Sum	12.72	24	Pass
NVNT	n40	5230	Ant1	9.31	--	Pass
NVNT	n40	5230	Ant2	10.08	--	Pass
NVNT	n40	5230	Sum	12.72	24	Pass

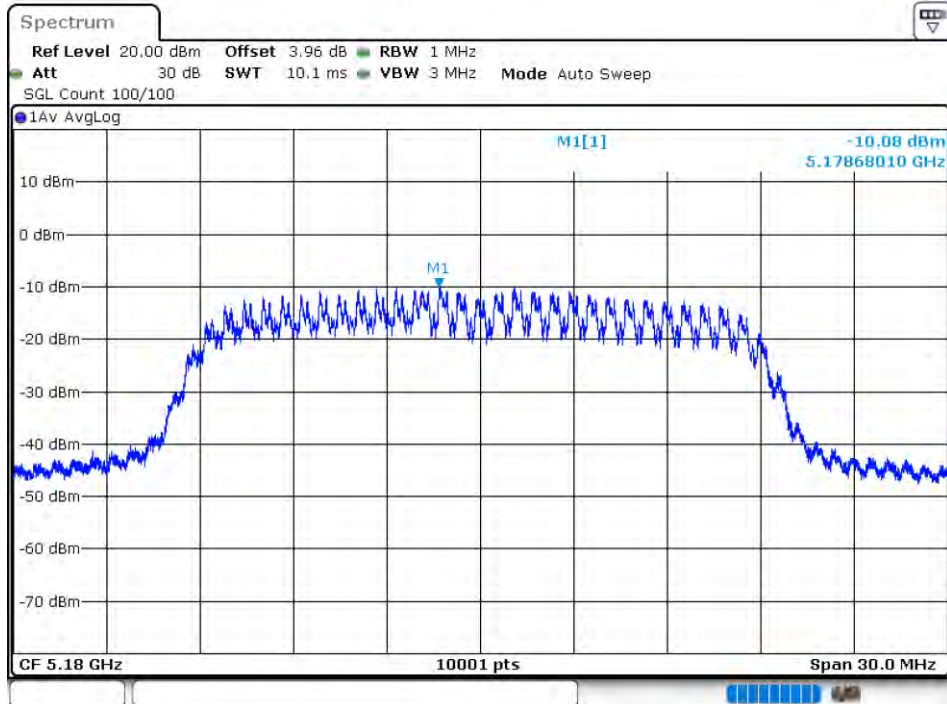
Note: The average power value already includes the duty cycle factor

Maximum Power Spectral Density Level

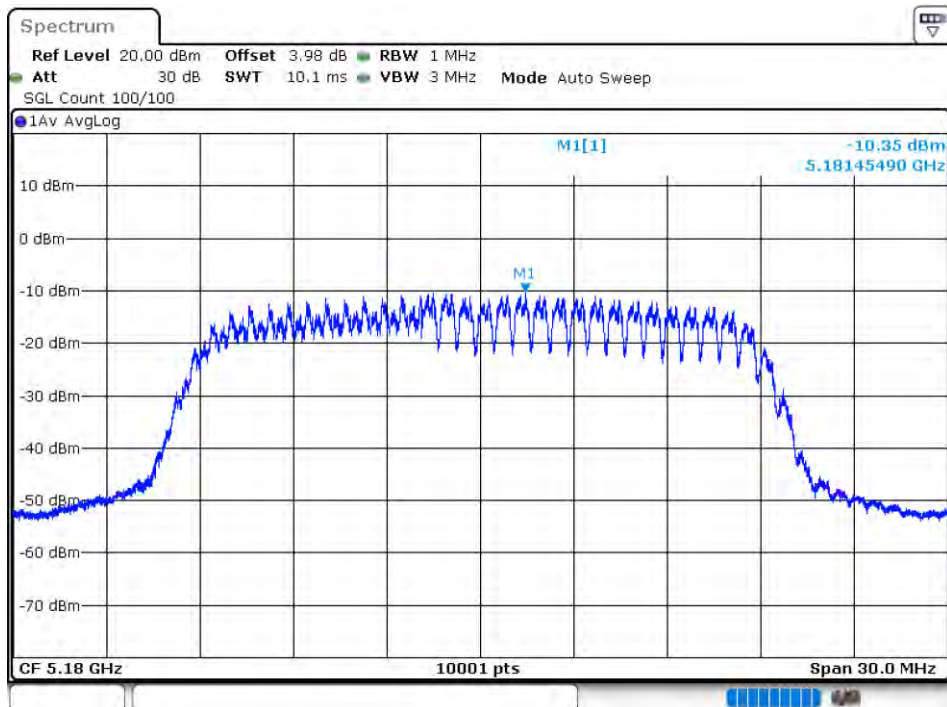
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	-10.08	0.76	-9.32	--	Pass
NVNT	ac20	5180	Ant2	-10.35	0.76	-9.59	--	Pass
NVNT	ac20	5180	Sum	-7.2	0.76	-6.44	11	Pass
NVNT	ac20	5200	Ant1	-10.49	0.76	-9.73	--	Pass
NVNT	ac20	5200	Ant2	-11.55	0.76	-10.79	--	Pass
NVNT	ac20	5200	Sum	-7.98	0.76	-7.22	11	Pass
NVNT	ac20	5240	Ant1	-8.7	0.76	-7.94	--	Pass
NVNT	ac20	5240	Ant2	-8.51	0.76	-7.75	--	Pass
NVNT	ac20	5240	Sum	-5.59	0.76	-4.83	11	Pass
NVNT	ac40	5190	Ant1	-16.51	1.14	-15.37	--	Pass
NVNT	ac40	5190	Ant2	-17.05	1.14	-15.91	--	Pass
NVNT	ac40	5190	Sum	-13.76	1.14	-12.62	11	Pass
NVNT	ac40	5230	Ant1	-16.67	1.13	-15.54	--	Pass
NVNT	ac40	5230	Ant2	-17.93	1.13	-16.8	--	Pass
NVNT	ac40	5230	Sum	-14.24	1.13	-13.11	11	Pass
NVNT	ac80	5210	Ant1	-19.72	1.5	-18.22	--	Pass
NVNT	ac80	5210	Ant2	-21.9	1.5	-20.4	--	Pass
NVNT	ac80	5210	Sum	-17.66	1.5	-16.16	11	Pass
NVNT	n20	5180	Ant1	-11.51	0.77	-10.74	--	Pass
NVNT	n20	5180	Ant2	-11.42	0.77	-10.65	--	Pass
NVNT	n20	5180	Sum	-8.45	0.77	-7.68	11	Pass
NVNT	n20	5200	Ant1	-9.77	0.77	-9	--	Pass
NVNT	n20	5200	Ant2	-9	0.77	-8.23	--	Pass
NVNT	n20	5200	Sum	-6.36	0.77	-5.59	11	Pass
NVNT	n20	5240	Ant1	-8.56	0.77	-7.79	--	Pass
NVNT	n20	5240	Ant2	-9.58	0.77	-8.81	--	Pass
NVNT	n20	5240	Sum	-6.03	0.77	-5.26	11	Pass
NVNT	n40	5190	Ant1	-18.31	1.17	-17.14	--	Pass
NVNT	n40	5190	Ant2	-17.85	1.17	-16.68	--	Pass
NVNT	n40	5190	Sum	-15.06	1.17	-13.89	11	Pass
NVNT	n40	5230	Ant1	2.55	1.1	3.65	--	Pass
NVNT	n40	5230	Ant2	1.99	1.44	3.43	--	Pass
NVNT	n40	5230	Sum	5.29	1.14	6.43	11	Pass

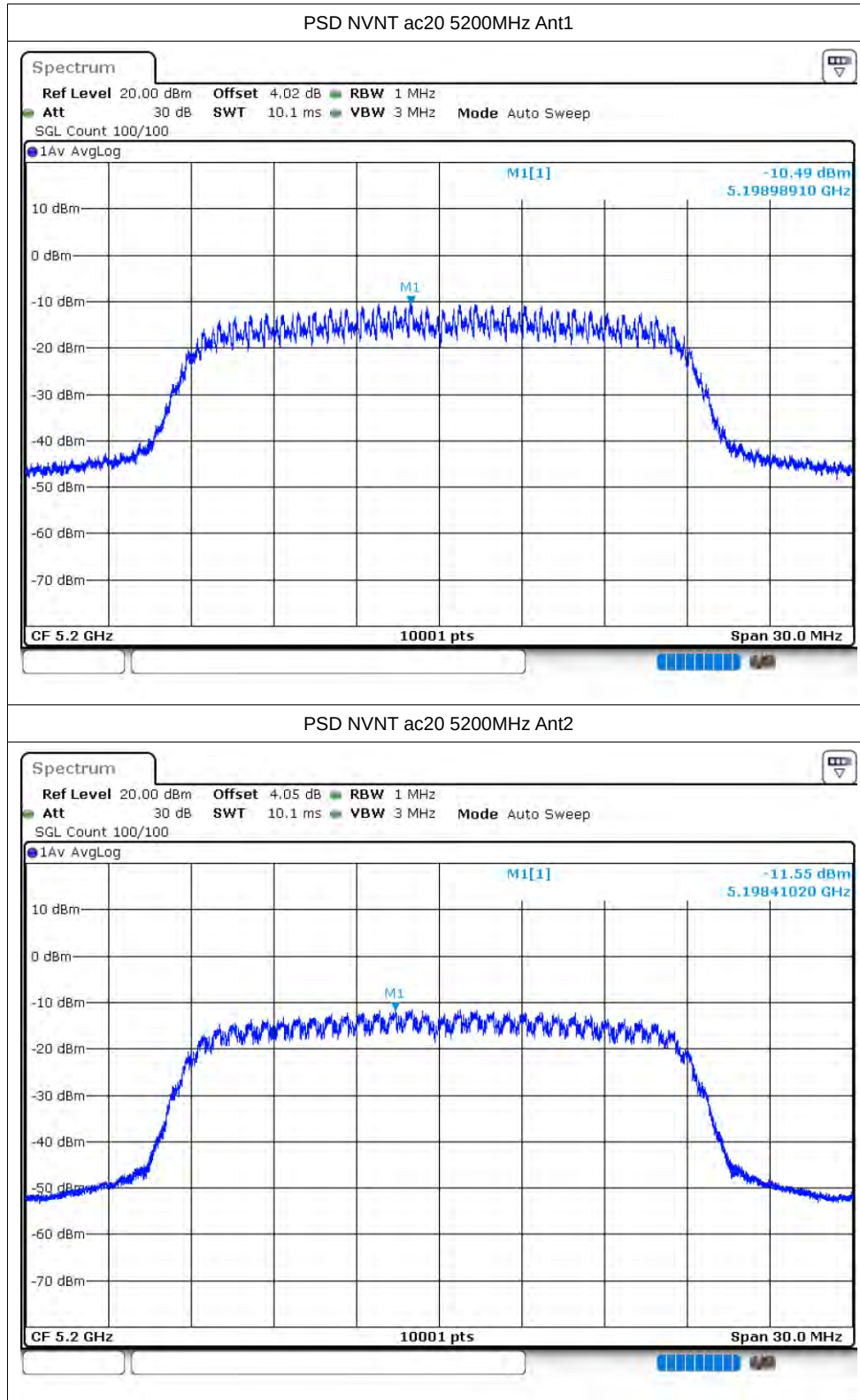
Test Graphs

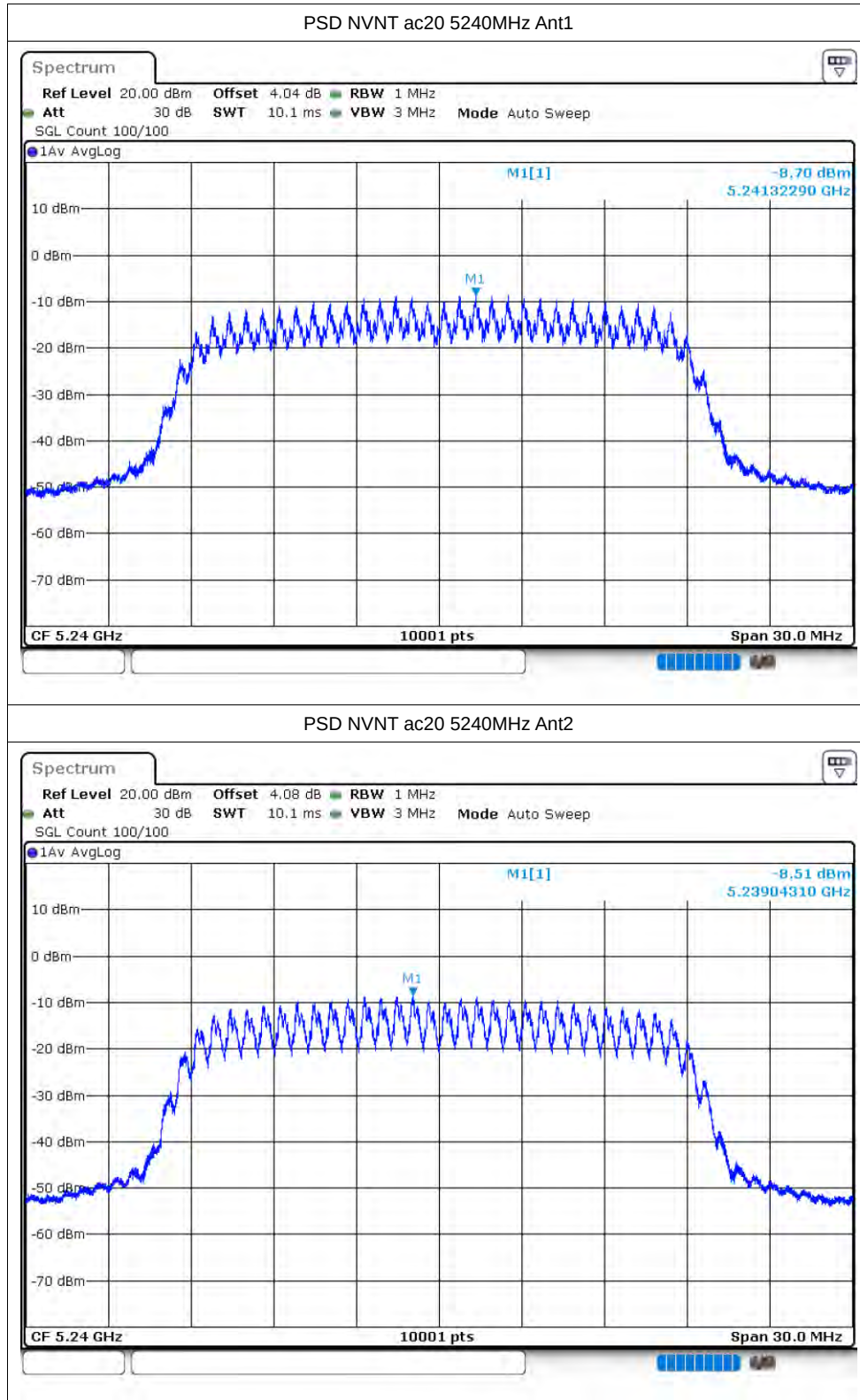
PSD NVNT ac20 5180MHz Ant1

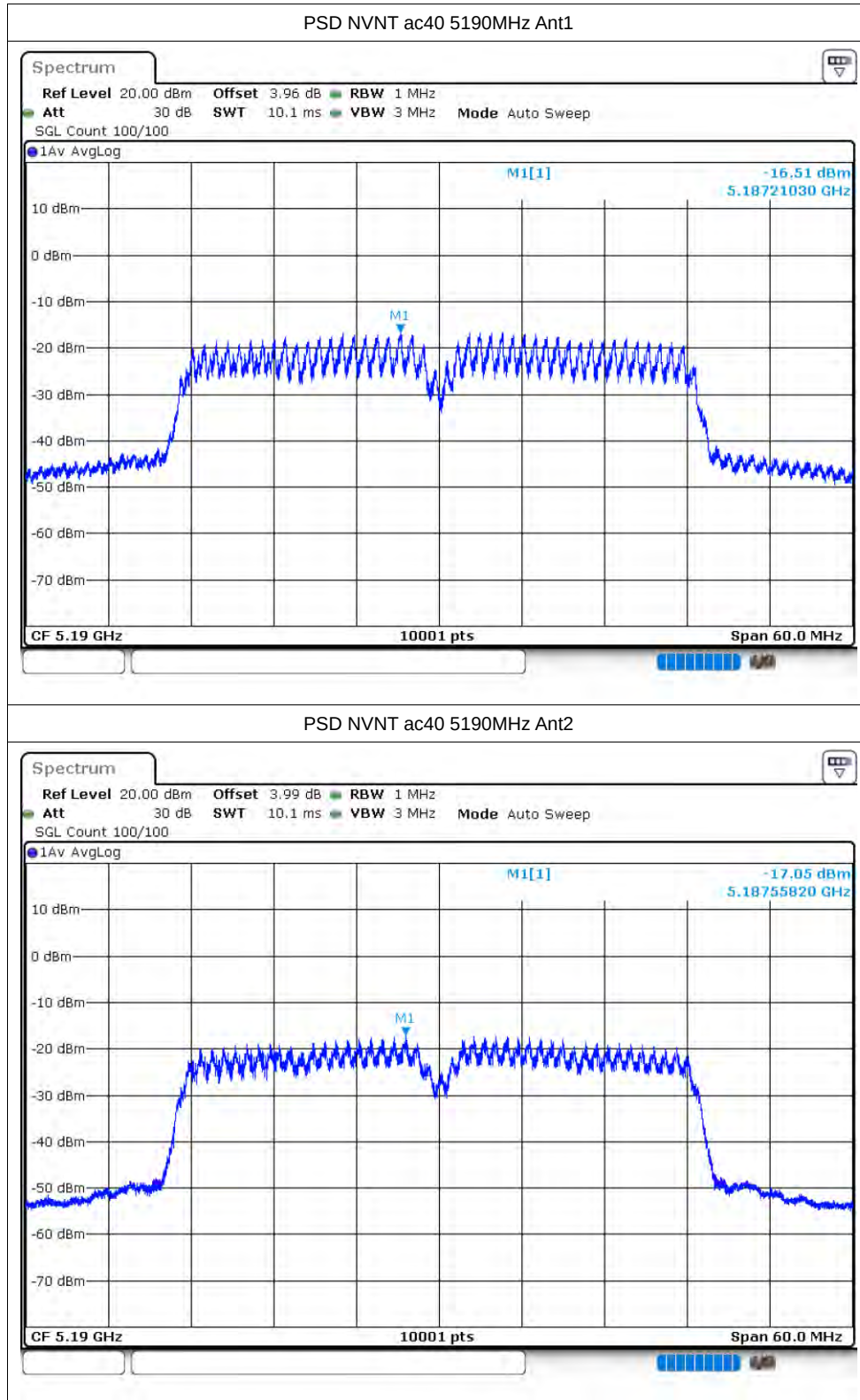


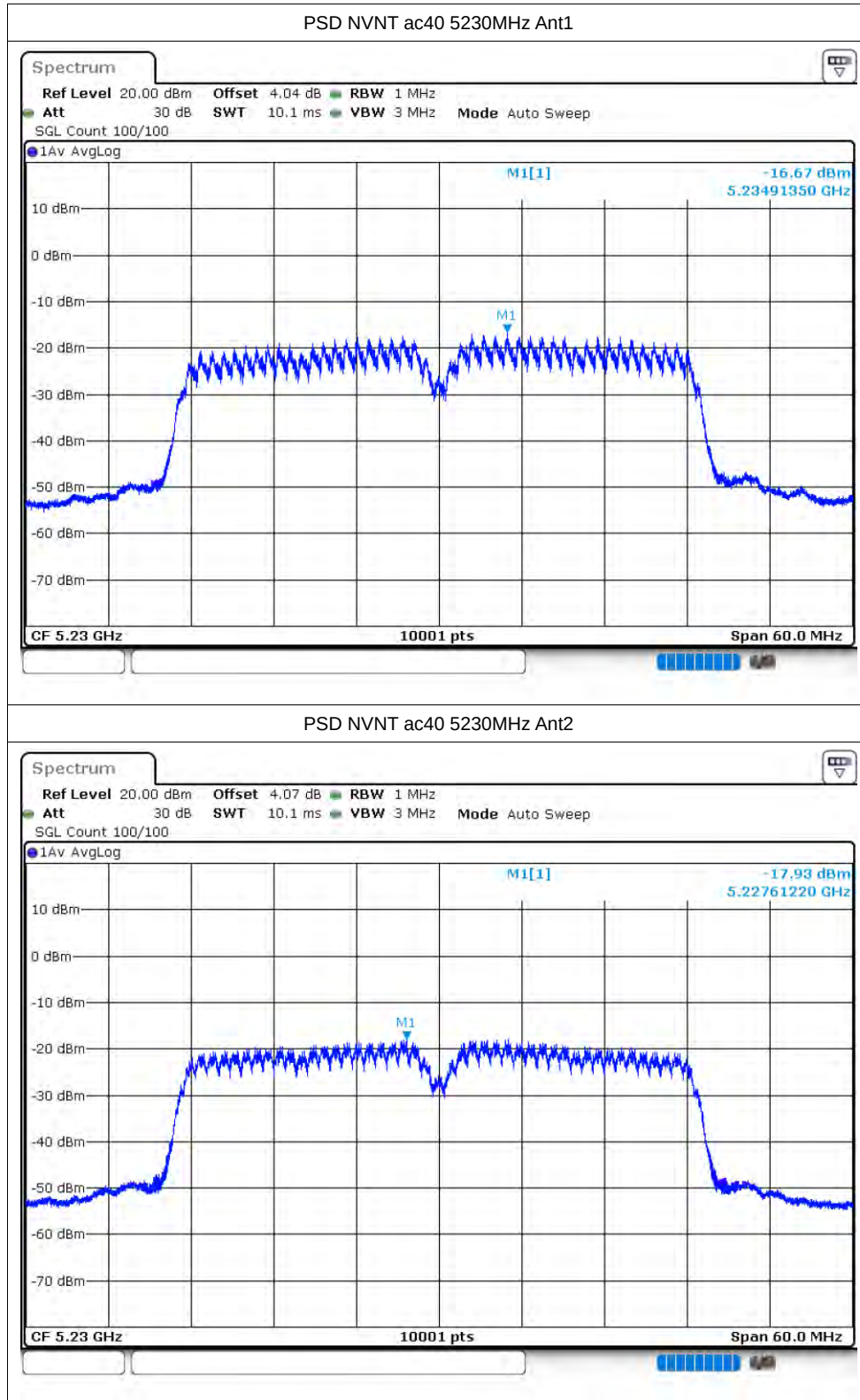
PSD NVNT ac20 5180MHz Ant2

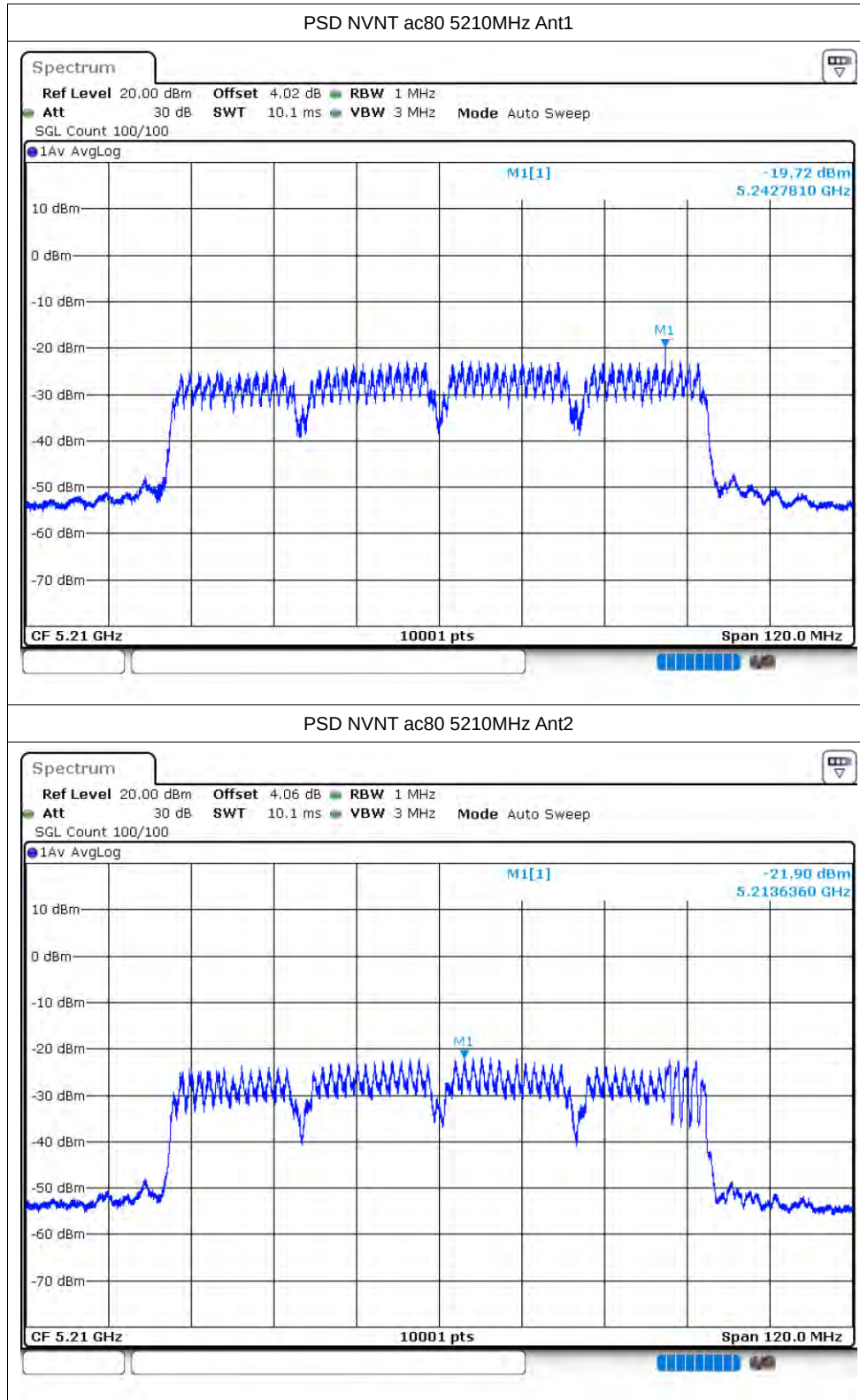


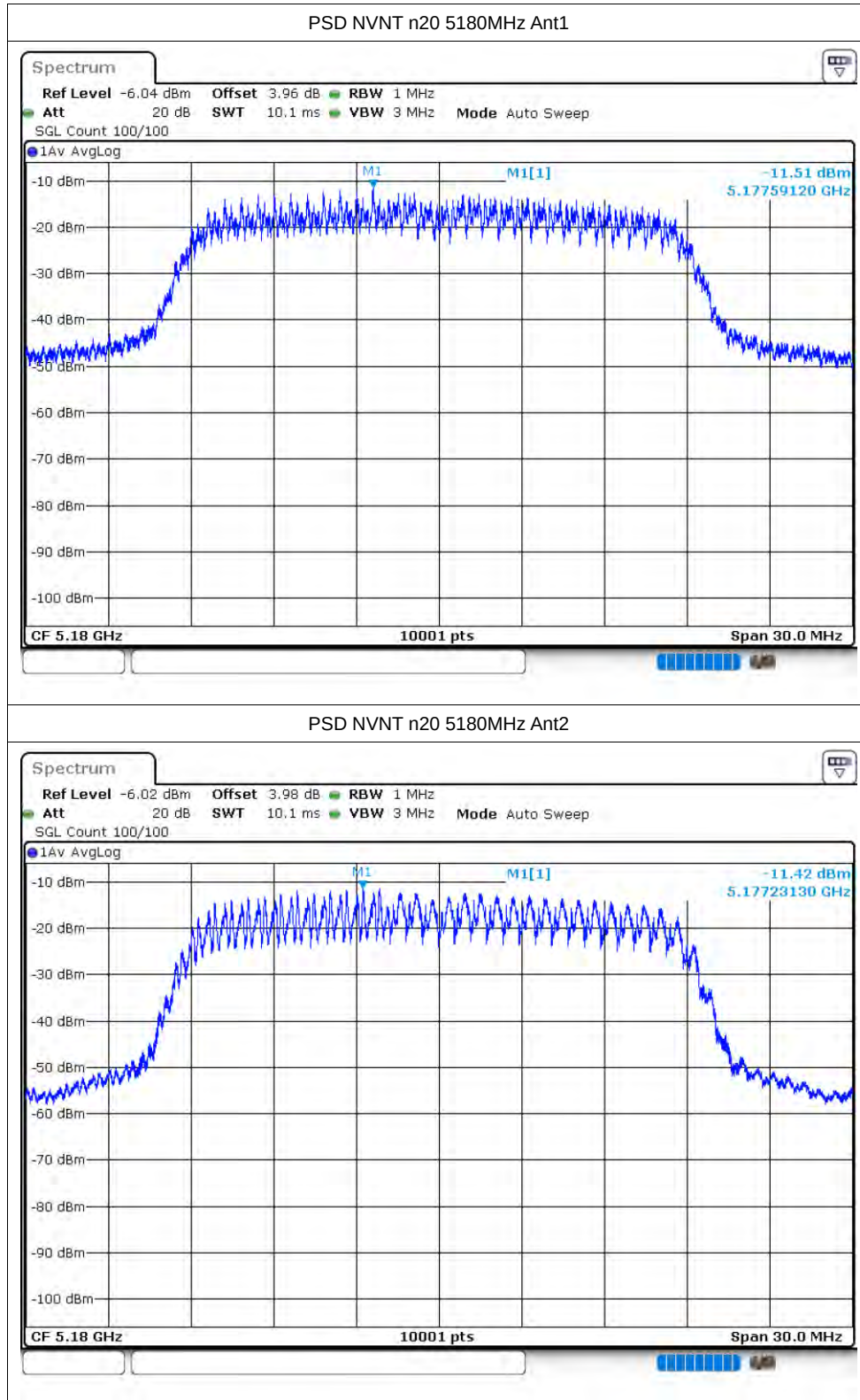


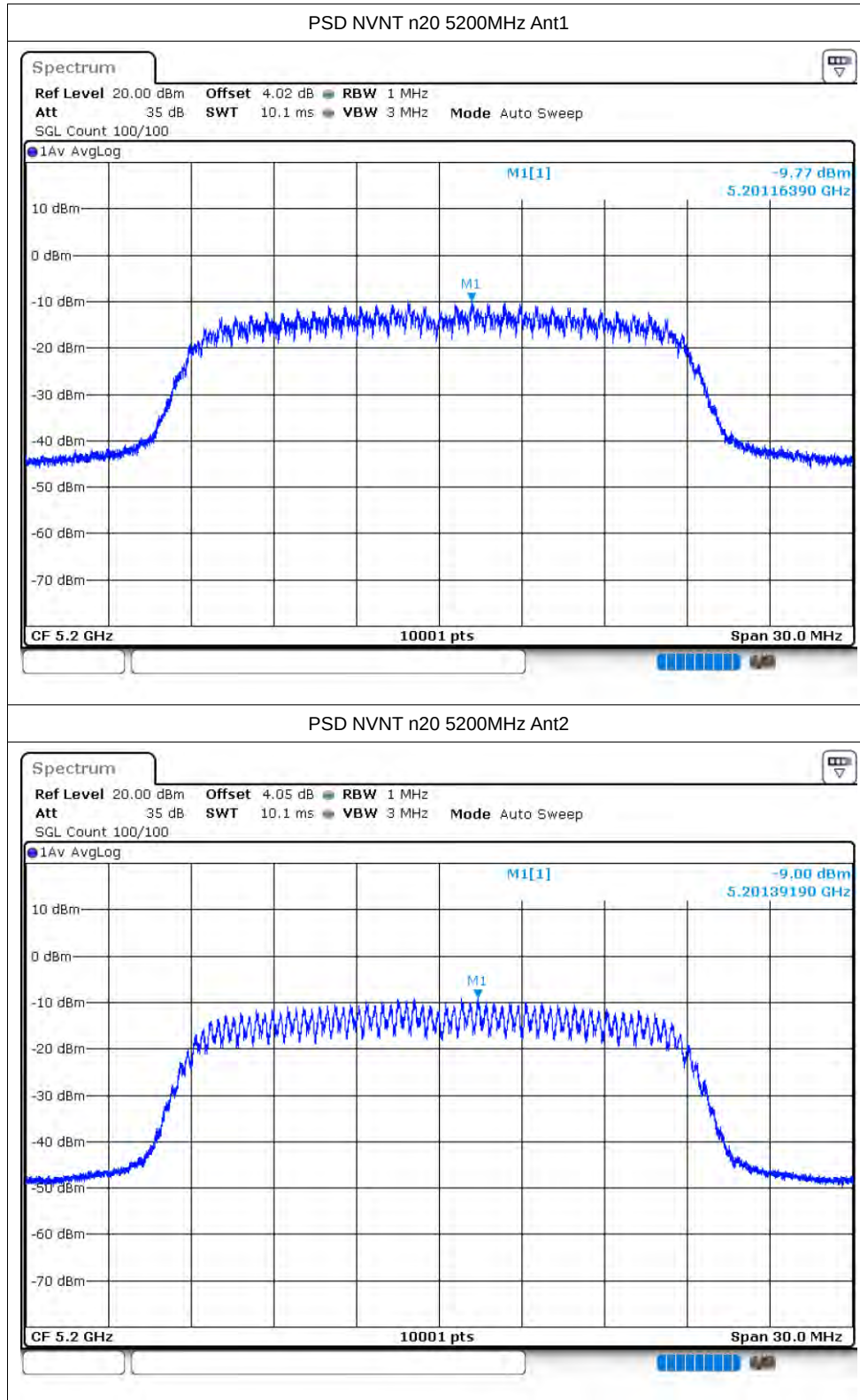


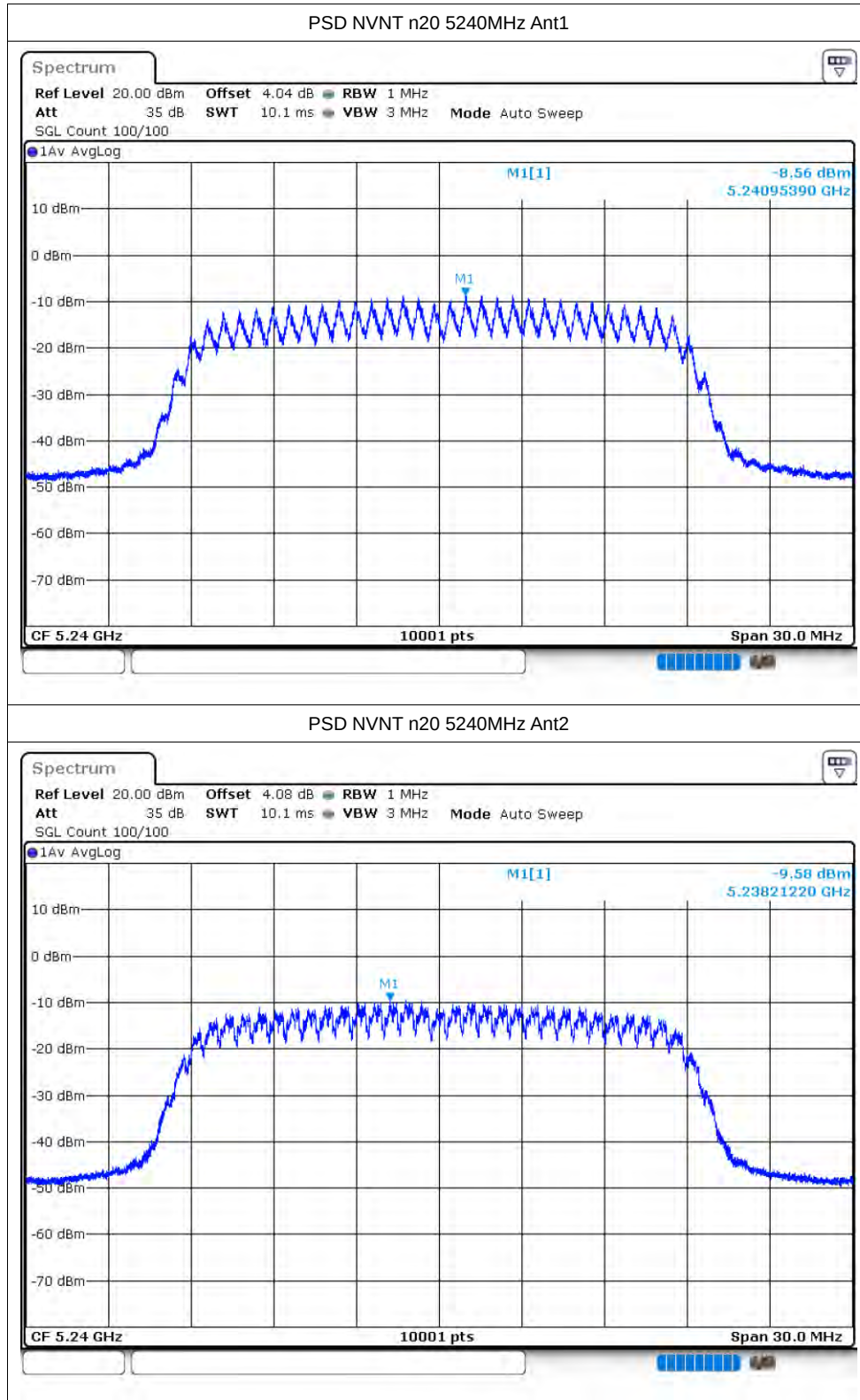


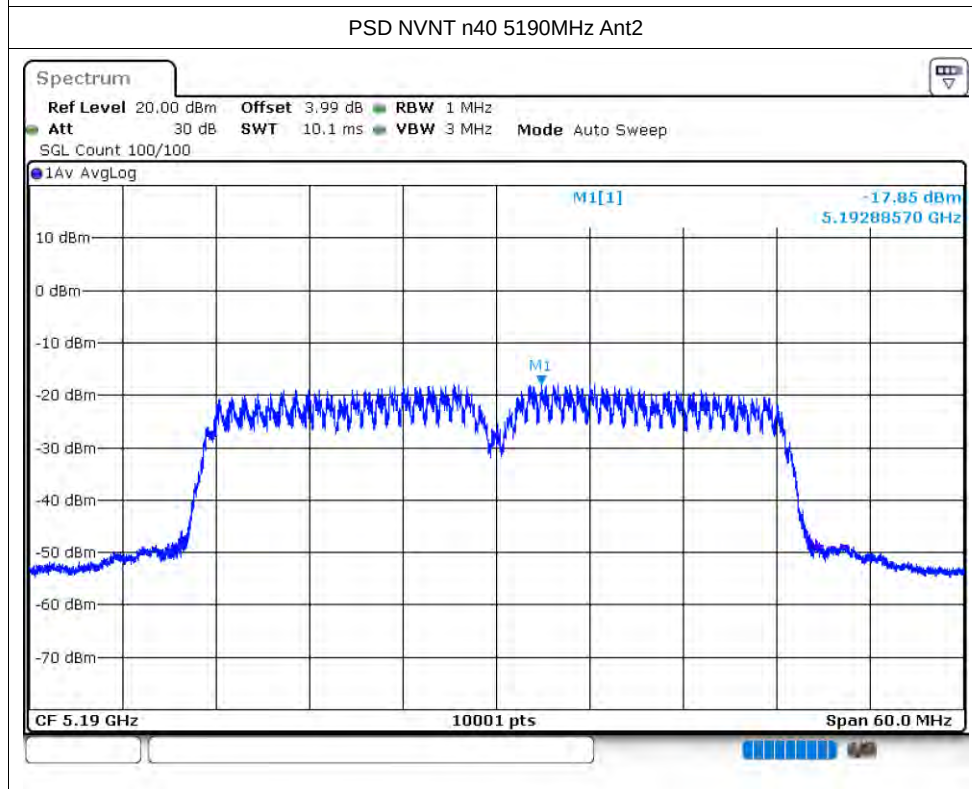
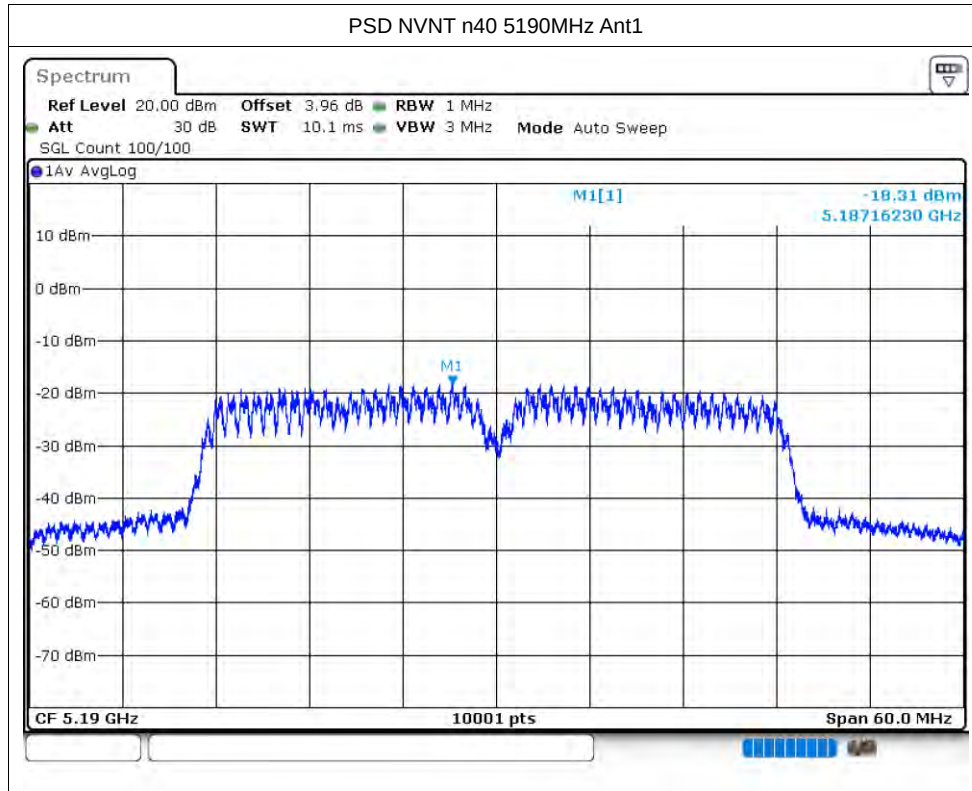


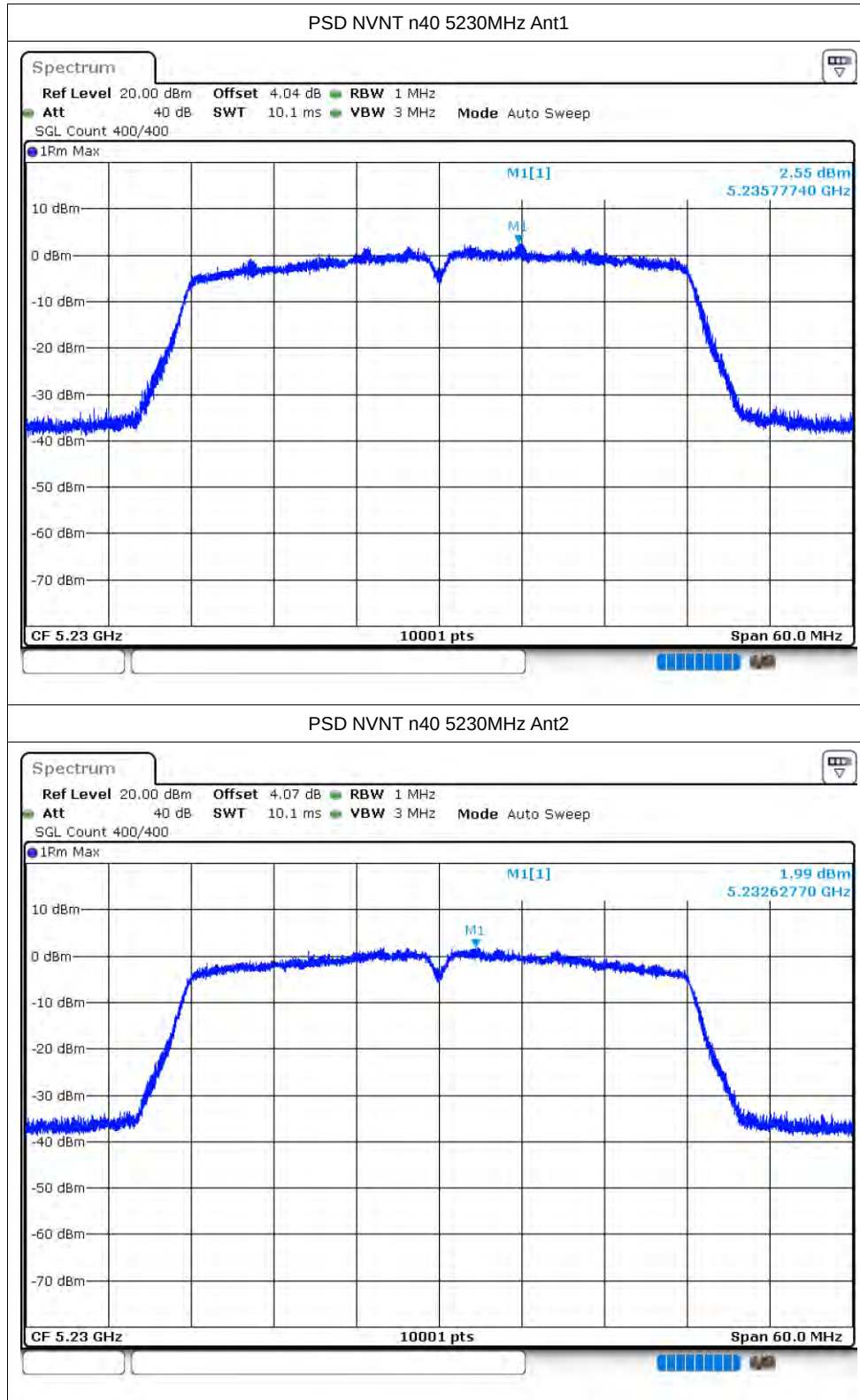












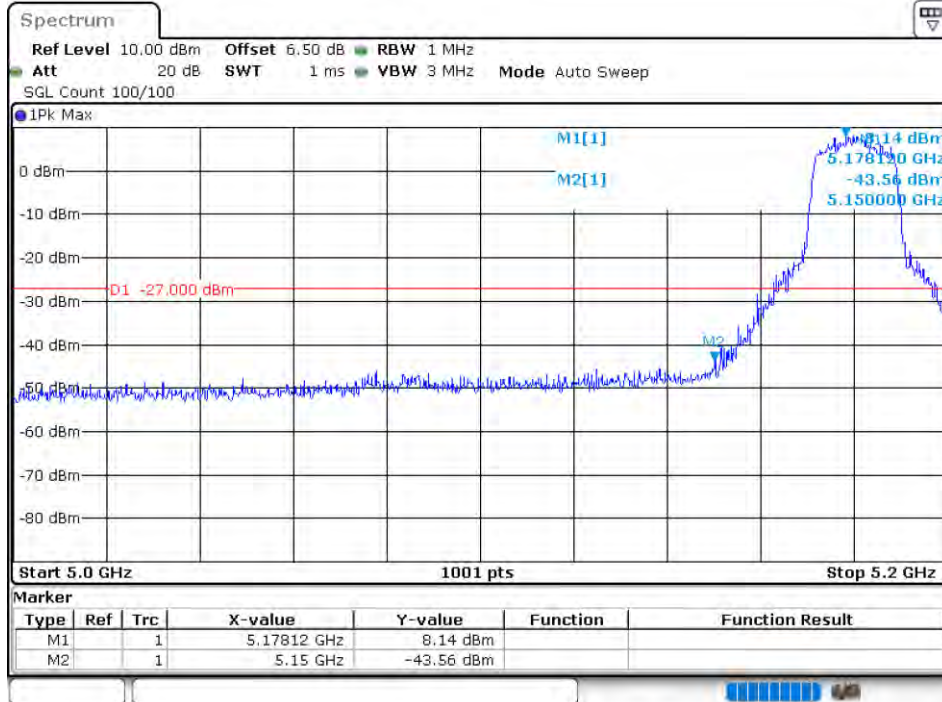
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	-43.55	-27	Pass
NVNT	ac20	5180	Ant2	-44.25	-27	Pass
NVNT	ac20	5240	Ant1	-47.36	-27	Pass
NVNT	ac20	5240	Ant2	-47.31	-27	Pass
NVNT	ac40	5190	Ant1	-34.73	-27	Pass
NVNT	ac40	5190	Ant2	-44.91	-27	Pass
NVNT	ac40	5230	Ant1	-47.45	-27	Pass
NVNT	ac40	5230	Ant2	-48.26	-27	Pass
NVNT	ac80	5210	Ant1	-40.5	-27	Pass
NVNT	ac80	5210	Ant2	-40.75	-27	Pass
NVNT	ac80	5210	Ant1	-48.4	-27	Pass
NVNT	ac80	5210	Ant2	-48.4	-27	Pass
NVNT	n20	5180	Ant1	-40.28	-27	Pass
NVNT	n20	5180	Ant2	-45.14	-27	Pass
NVNT	n20	5240	Ant1	-47.4	-27	Pass
NVNT	n20	5240	Ant2	-47.57	-27	Pass
NVNT	n40	5190	Ant1	-34.21	-27	Pass
NVNT	n40	5190	Ant2	-45.45	-27	Pass
NVNT	n40	5230	Ant1	-46.9	-27	Pass
NVNT	n40	5230	Ant2	-48.76	-27	Pass

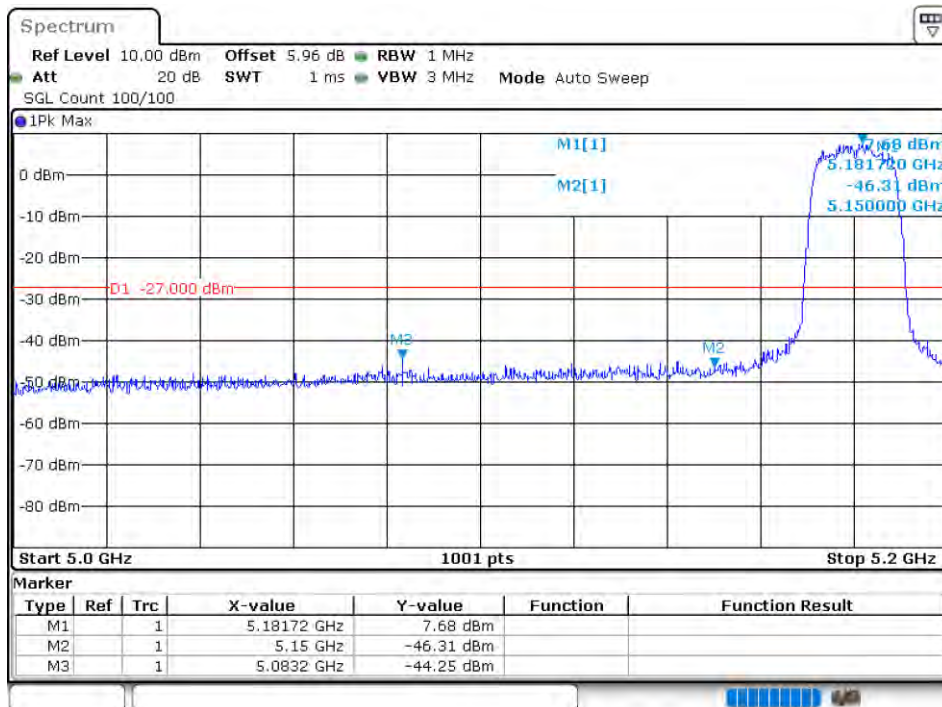
Note: The emissions of Ant 1& Ant 2 both have 3dB margin for the limits, so the MIMO test data is below the limits, this conclusion is based on validation results.

Test Graphs

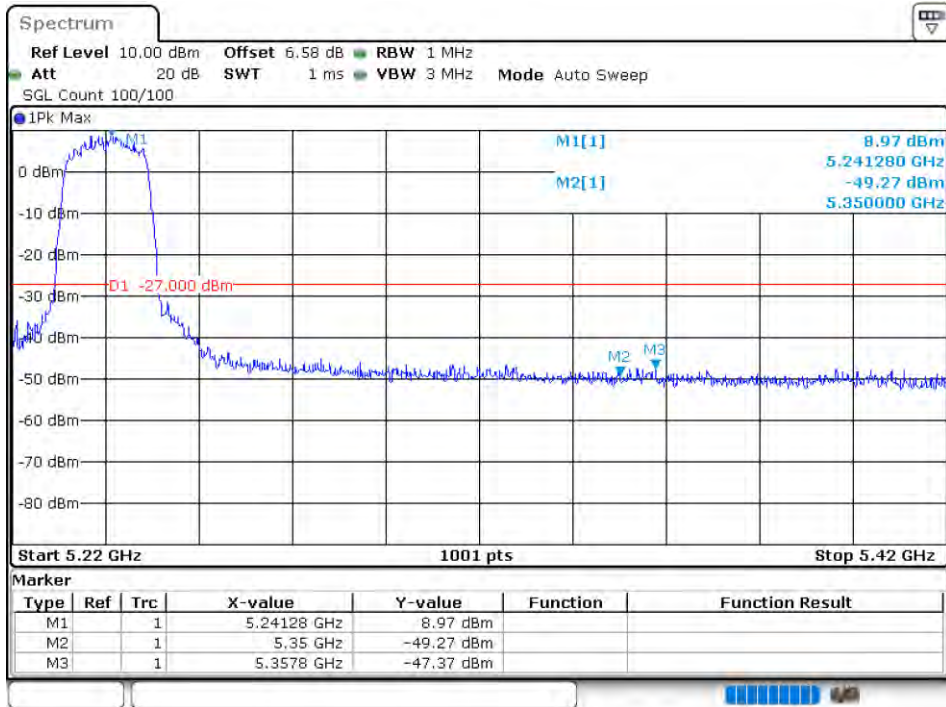
Band Edge NVNT ac20 5180MHz Low Ant1



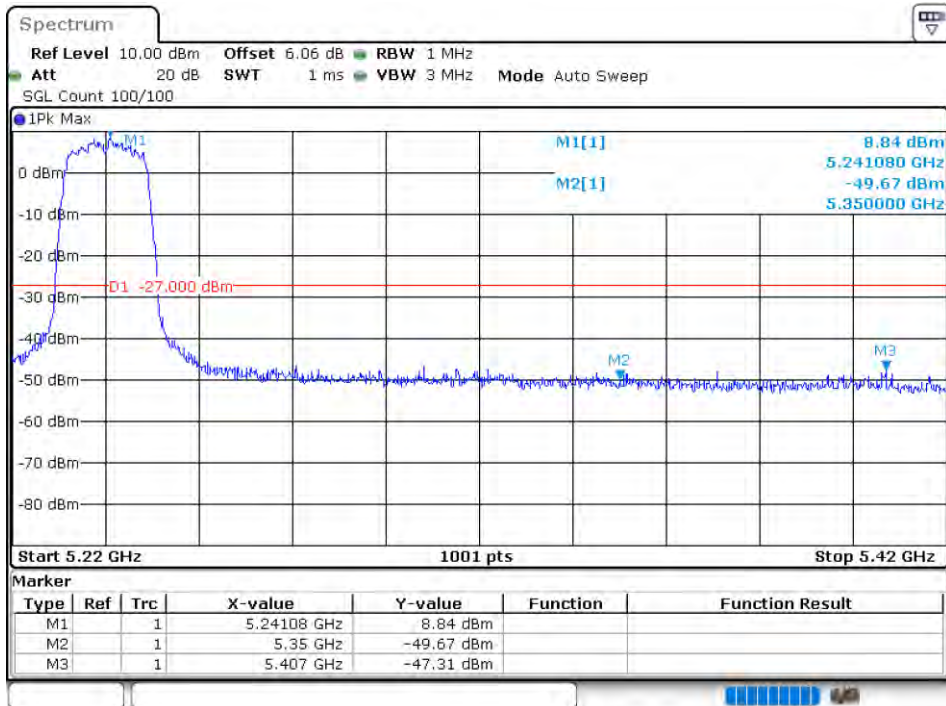
Band Edge NVNT ac20 5180MHz Low Ant2



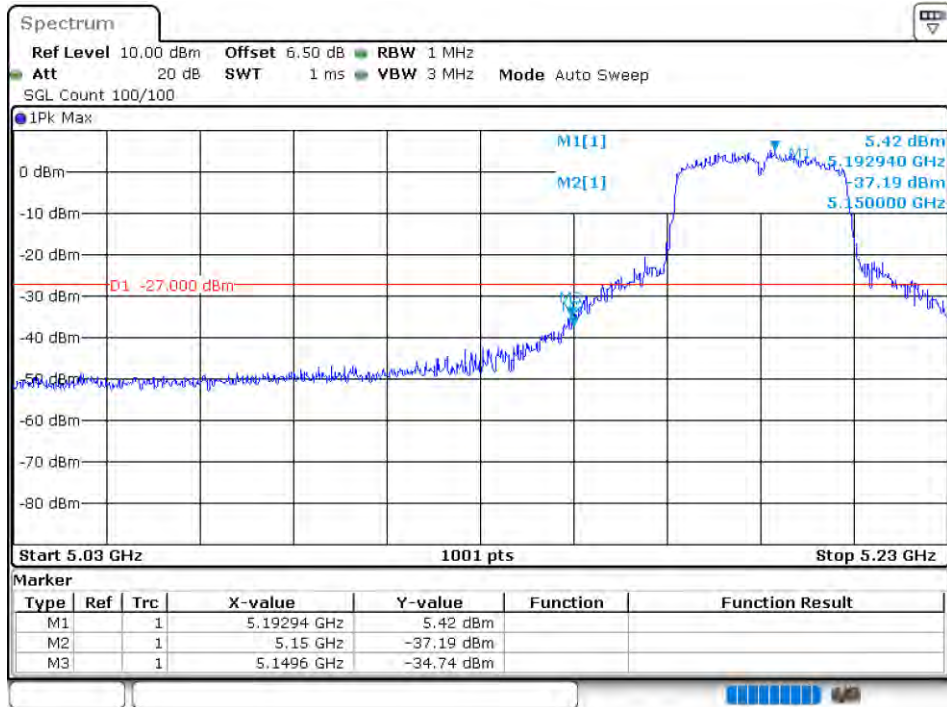
Band Edge NVNT ac20 5240MHz High Ant1



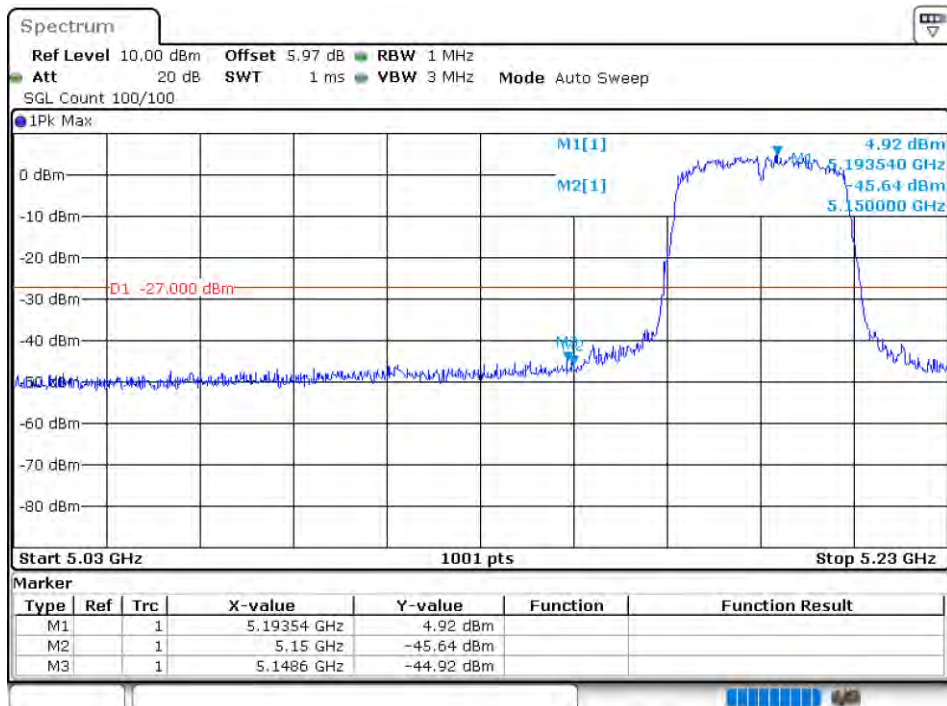
Band Edge NVNT ac20 5240MHz High Ant2



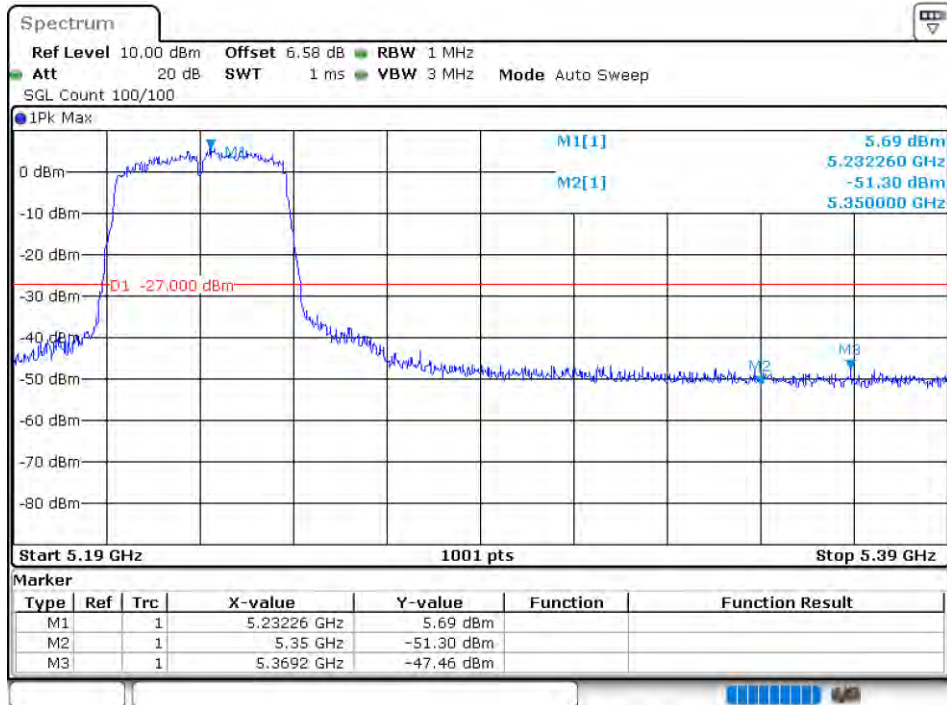
Band Edge NVNT ac40 5190MHz Low Ant1



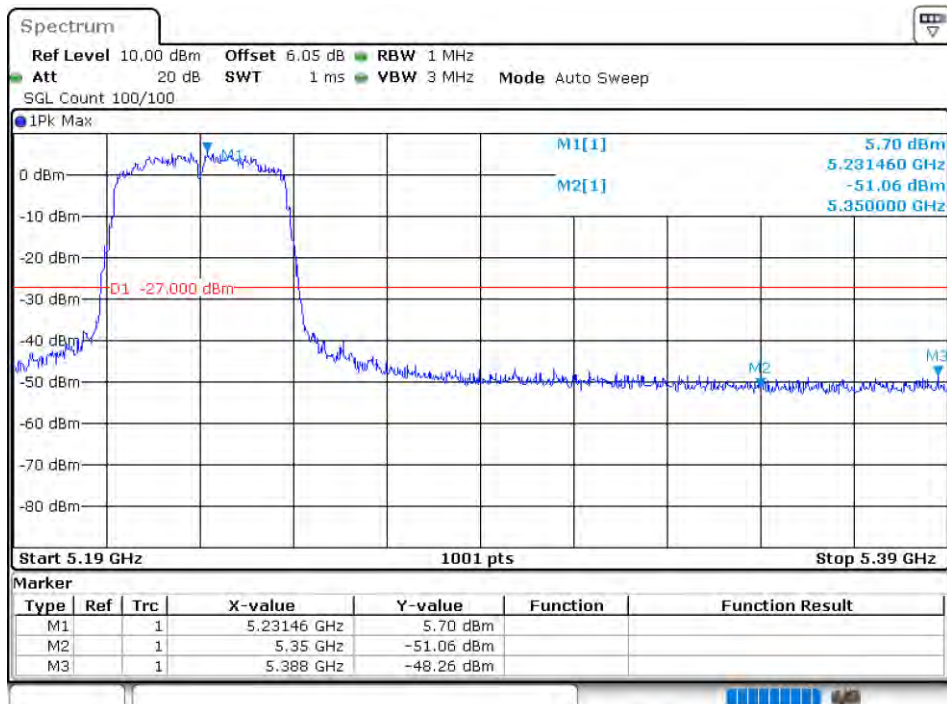
Band Edge NVNT ac40 5190MHz Low Ant2



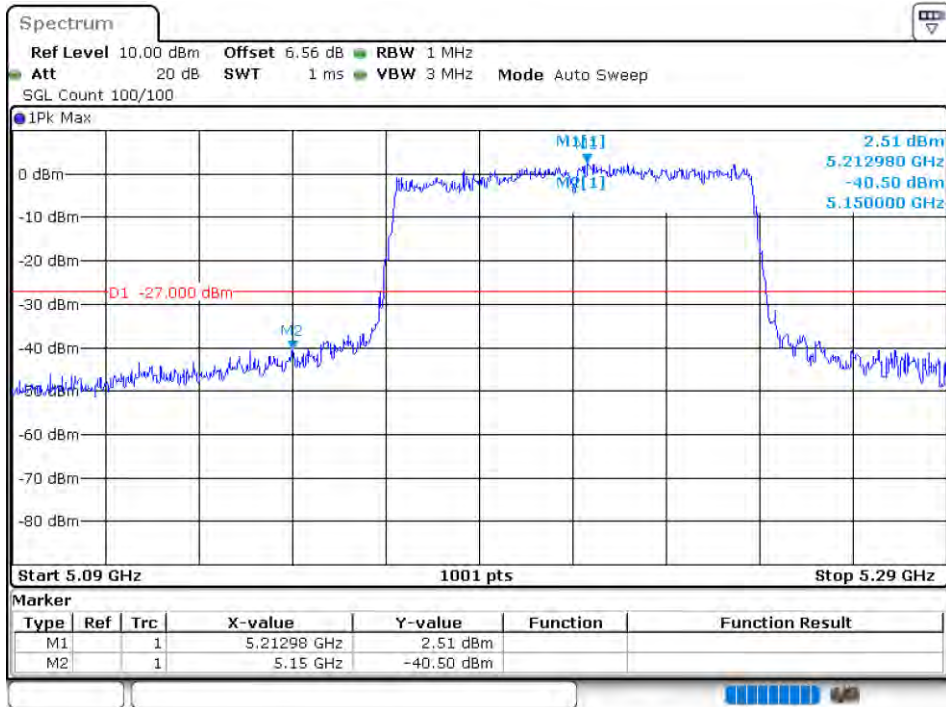
Band Edge NVNT ac40 5230MHz High Ant1



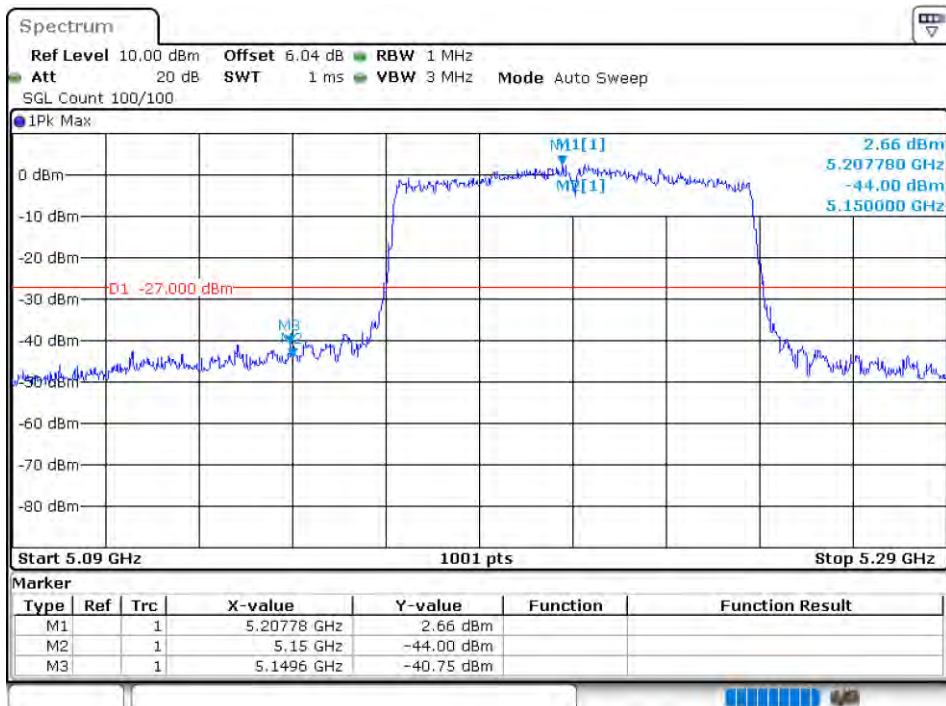
Band Edge NVNT ac40 5230MHz High Ant2



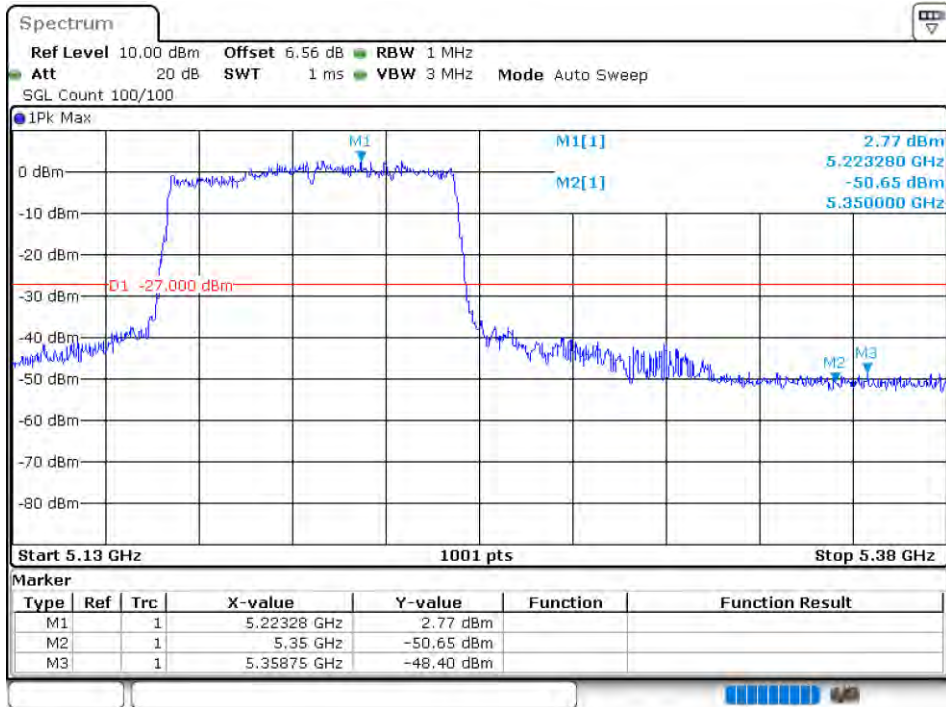
Band Edge NVNT ac80 5210MHz Low Ant1



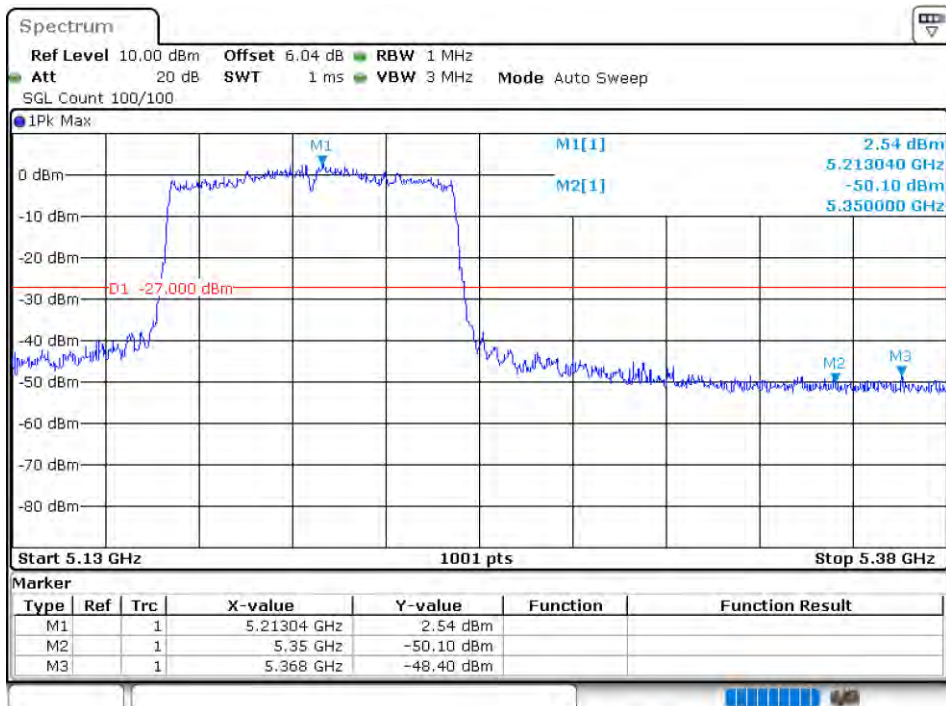
Band Edge NVNT ac80 5210MHz Low Ant2



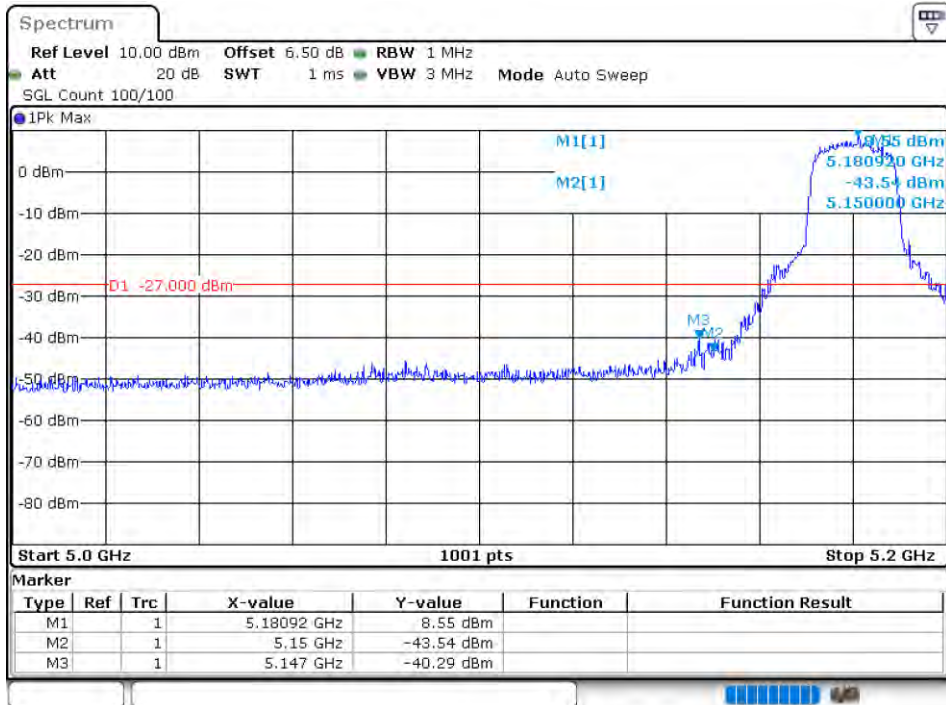
Band Edge NVNT ac80 5210MHz High Ant1



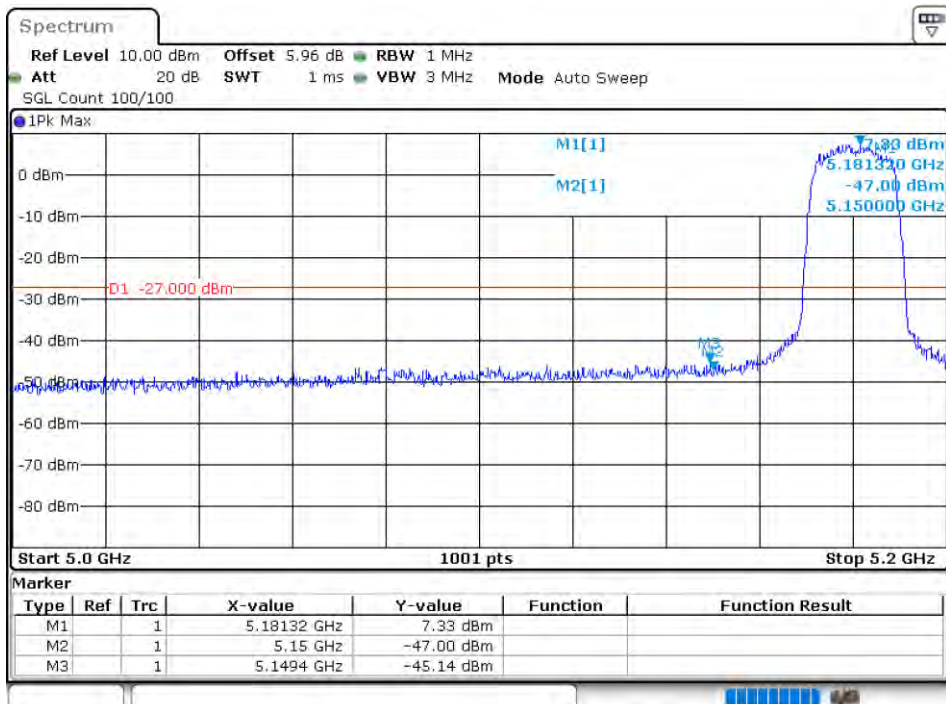
Band Edge NVNT ac80 5210MHz High Ant2



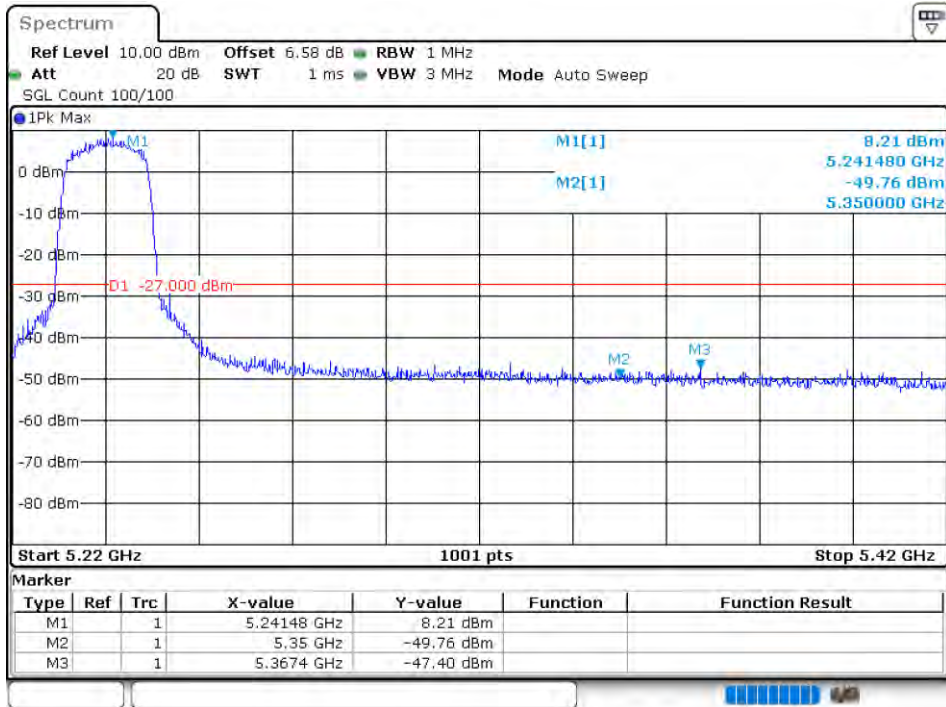
Band Edge NVNT n20 5180MHz Low Ant1



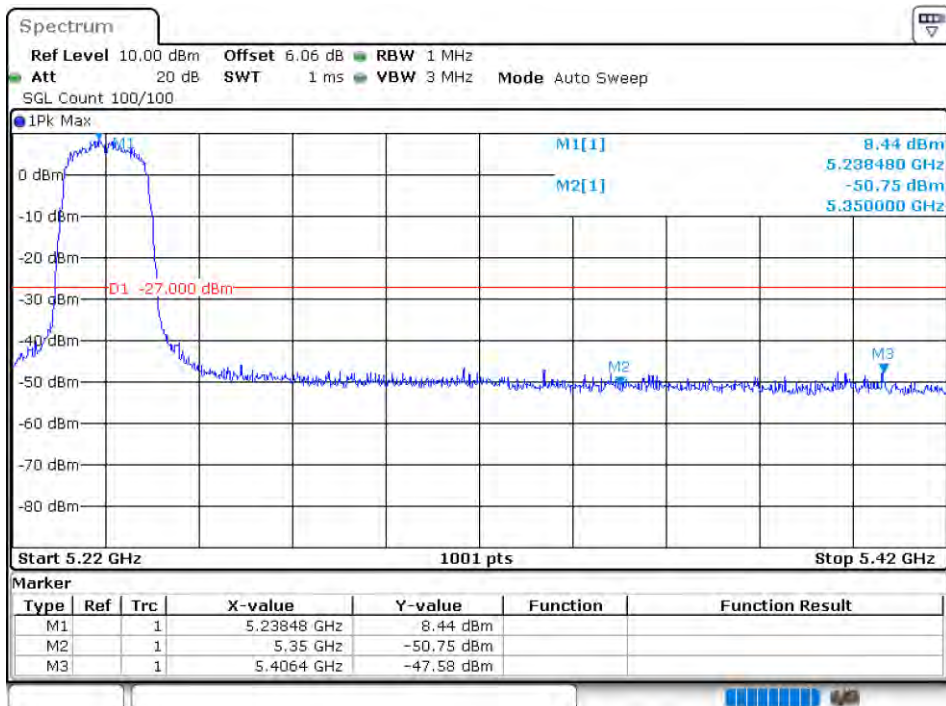
Band Edge NVNT n20 5180MHz Low Ant2



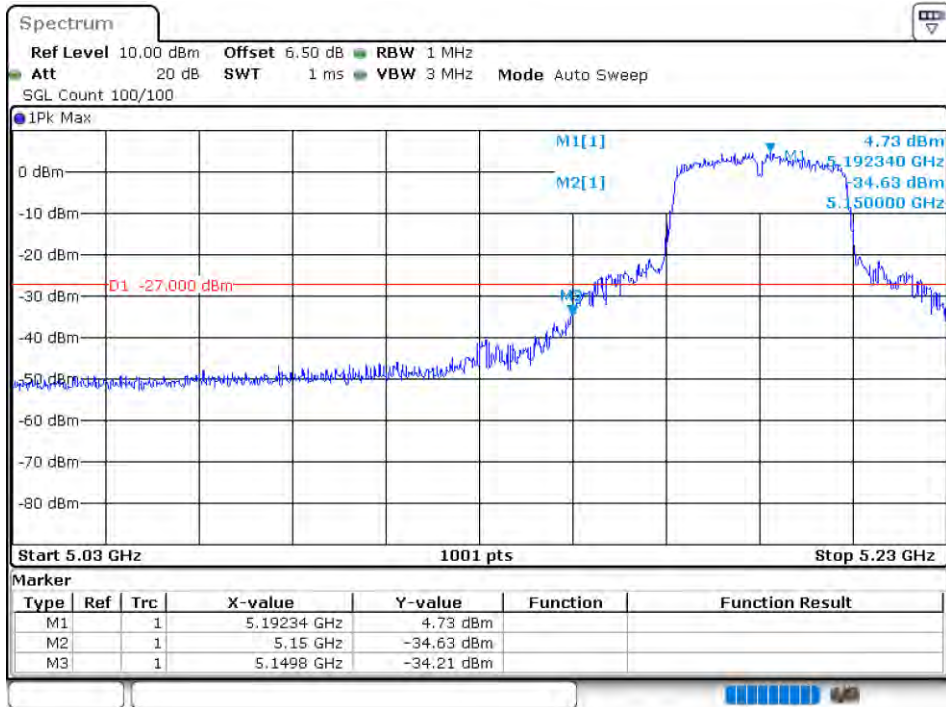
Band Edge NVNT n20 5240MHz High Ant1



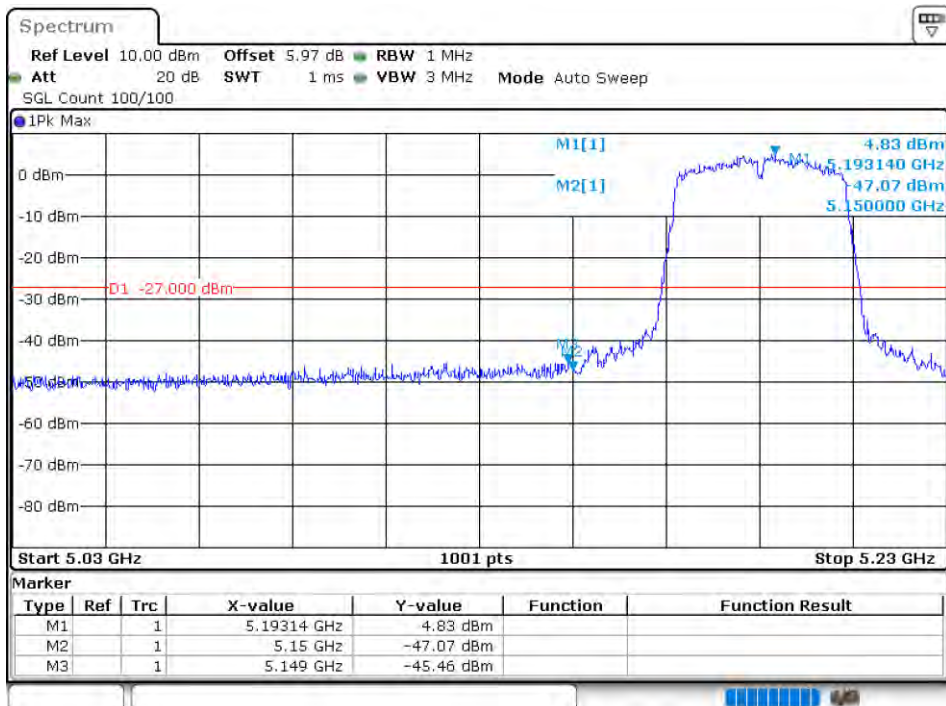
Band Edge NVNT n20 5240MHz High Ant2



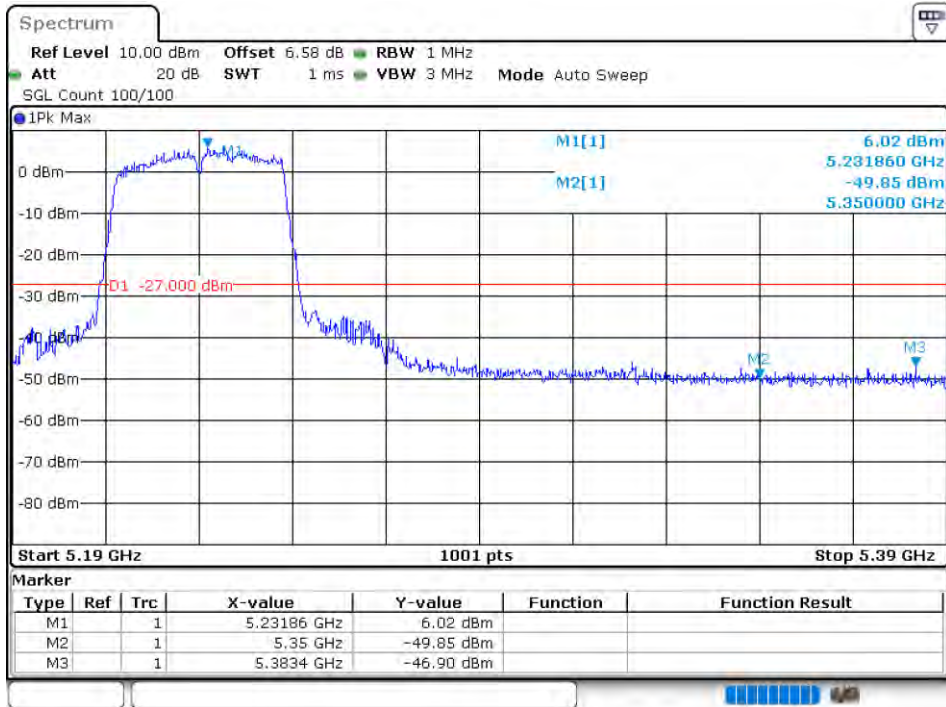
Band Edge NVNT n40 5190MHz Low Ant1



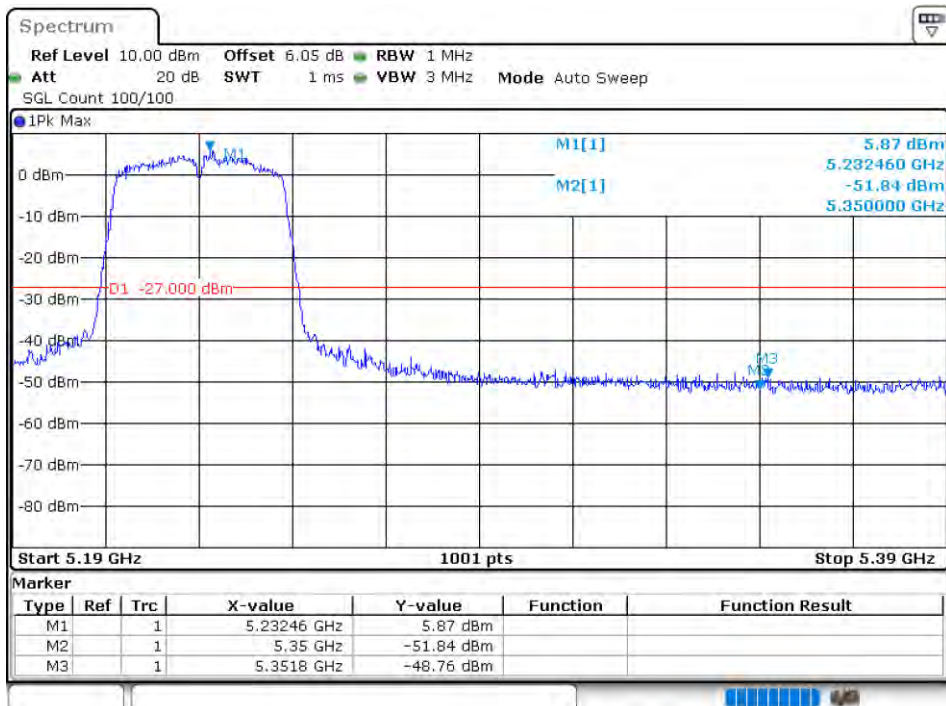
Band Edge NVNT n40 5190MHz Low Ant2



Band Edge NVNT n40 5230MHz High Ant1



Band Edge NVNT n40 5230MHz High Ant2



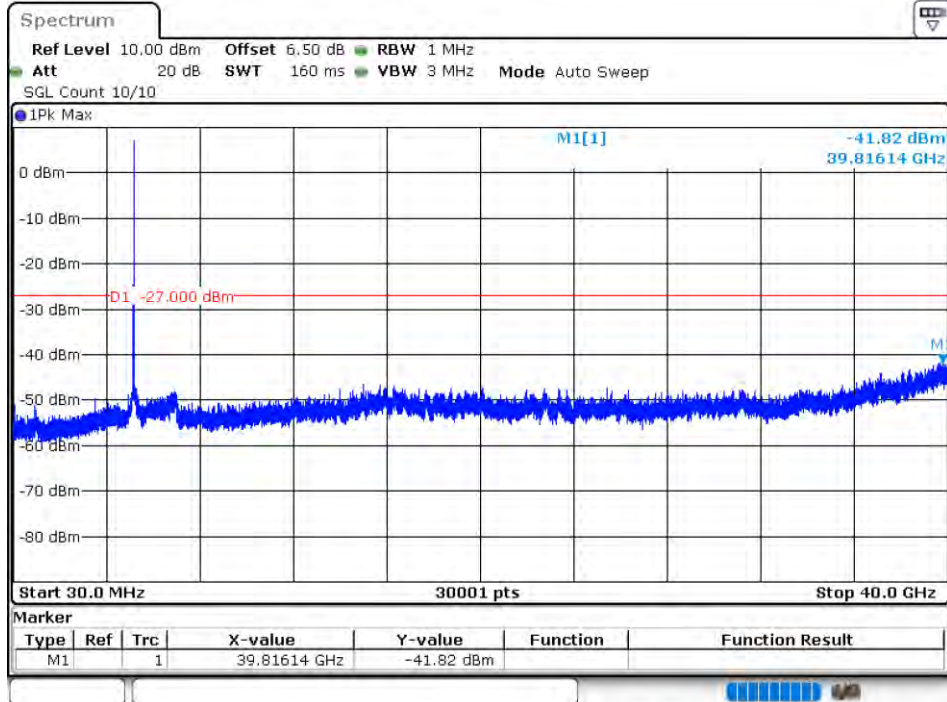
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	-41.82	-27	Pass
NVNT	ac20	5180	Ant2	-41.96	-27	Pass
NVNT	ac20	5200	Ant1	-40.7	-27	Pass
NVNT	ac20	5200	Ant2	-41.9	-27	Pass
NVNT	ac20	5240	Ant1	-40.57	-27	Pass
NVNT	ac20	5240	Ant2	-41.71	-27	Pass
NVNT	ac40	5190	Ant1	-40.74	-27	Pass
NVNT	ac40	5190	Ant2	-41.93	-27	Pass
NVNT	ac40	5230	Ant1	-40.56	-27	Pass
NVNT	ac40	5230	Ant2	-42.04	-27	Pass
NVNT	ac80	5210	Ant1	-41.55	-27	Pass
NVNT	ac80	5210	Ant2	-41.53	-27	Pass
NVNT	n20	5180	Ant1	-41.57	-27	Pass
NVNT	n20	5180	Ant2	-42.26	-27	Pass
NVNT	n20	5200	Ant1	-40.92	-27	Pass
NVNT	n20	5200	Ant2	-41.79	-27	Pass
NVNT	n20	5240	Ant1	-40.97	-27	Pass
NVNT	n20	5240	Ant2	-42.15	-27	Pass
NVNT	n40	5190	Ant1	-41.11	-27	Pass
NVNT	n40	5190	Ant2	-42.15	-27	Pass
NVNT	n40	5230	Ant1	-40.99	-27	Pass
NVNT	n40	5230	Ant2	-42.36	-27	Pass

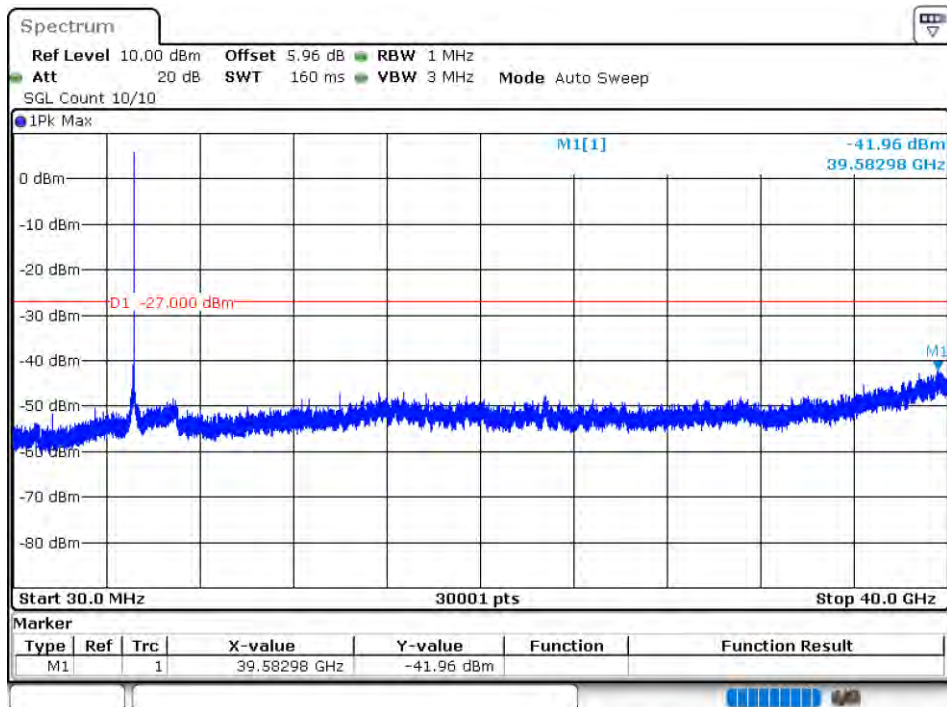
Note: The emissions of Ant 1& Ant 2 both have 3dB margin for the limits, so the MIMO test data is below the limits, this conclusion is based on validation results.

Test Graphs

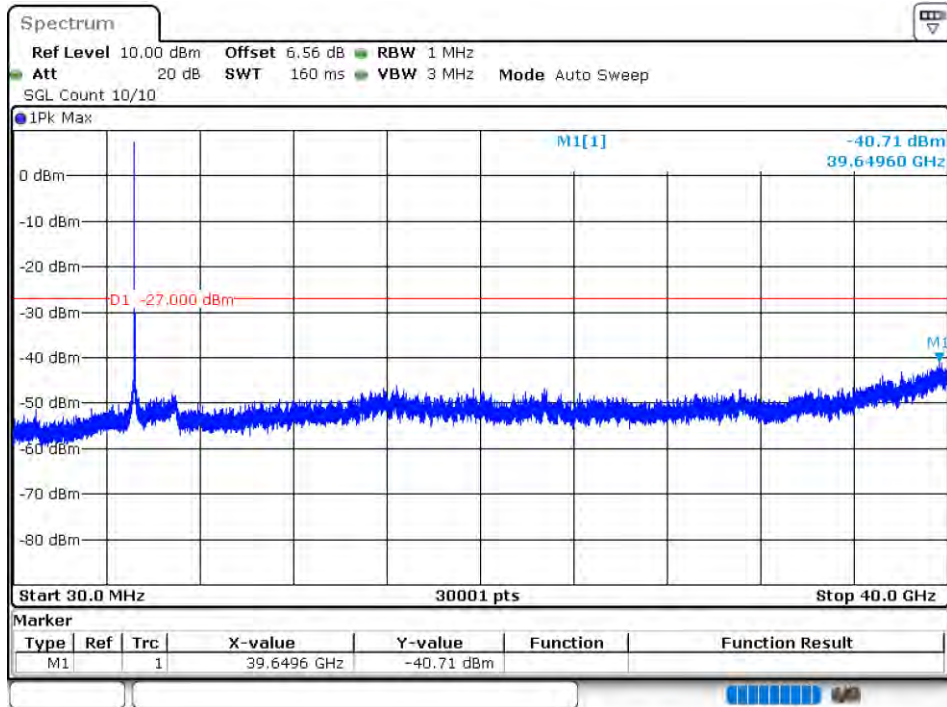
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



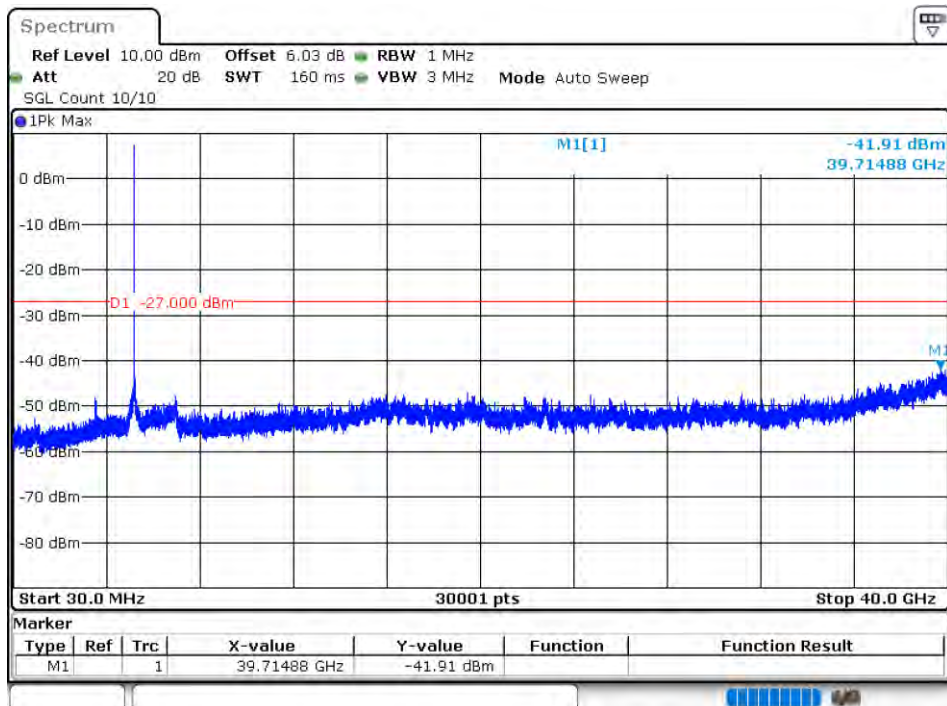
Tx. Spurious NVNT ac20 5180MHz Ant2 Emission



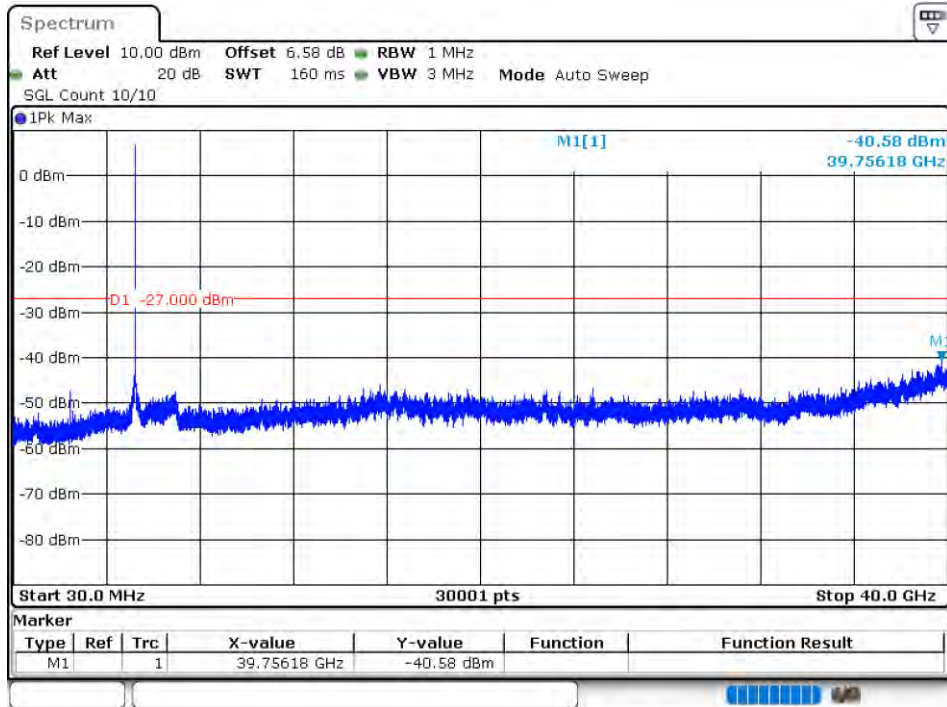
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



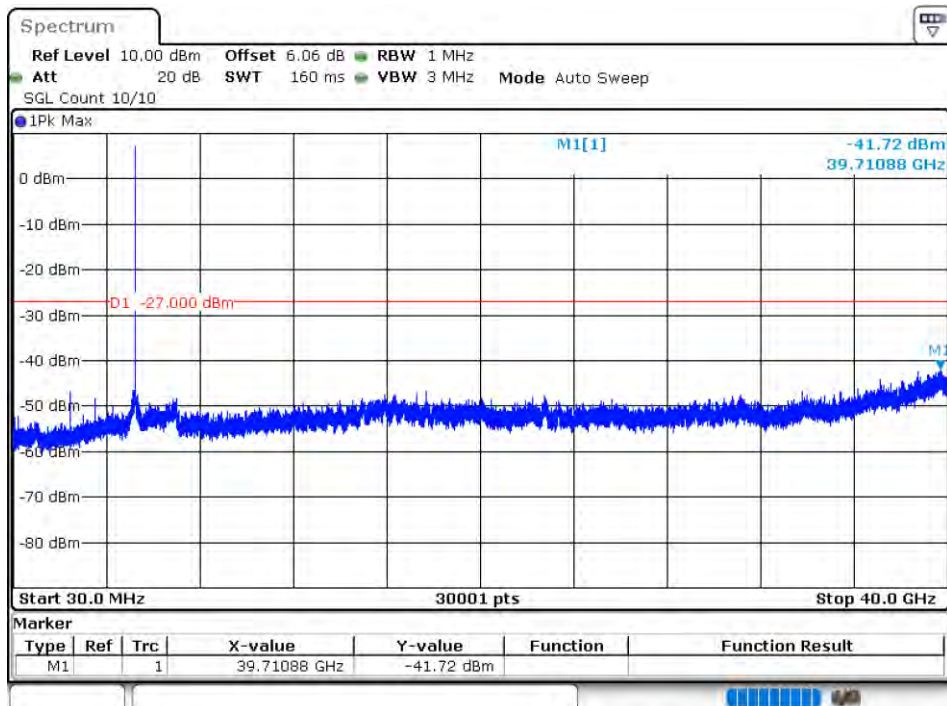
Tx. Spurious NVNT ac20 5200MHz Ant2 Emission



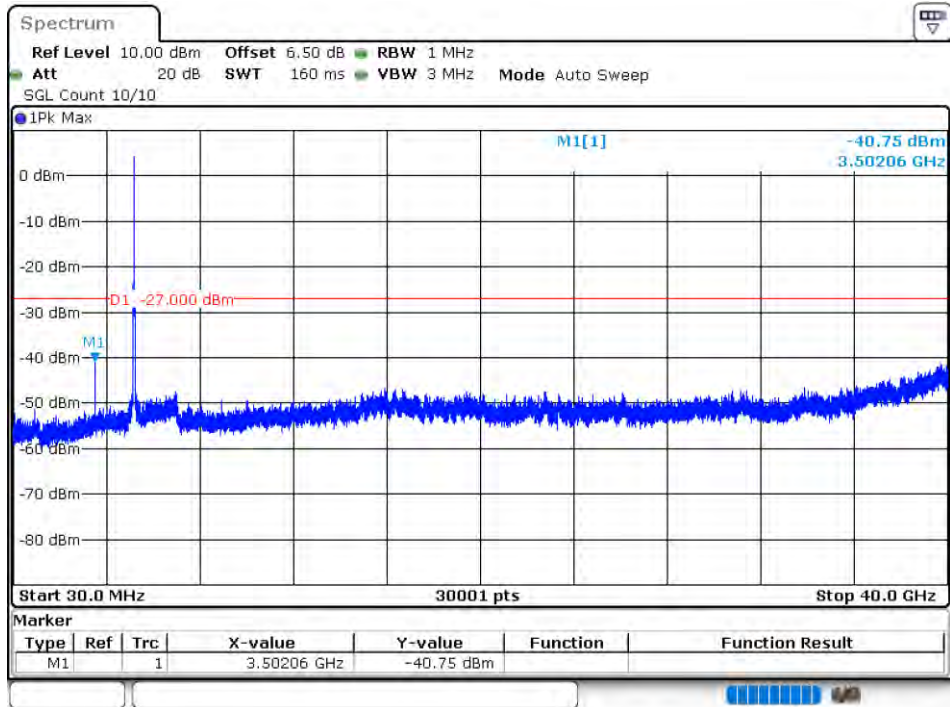
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



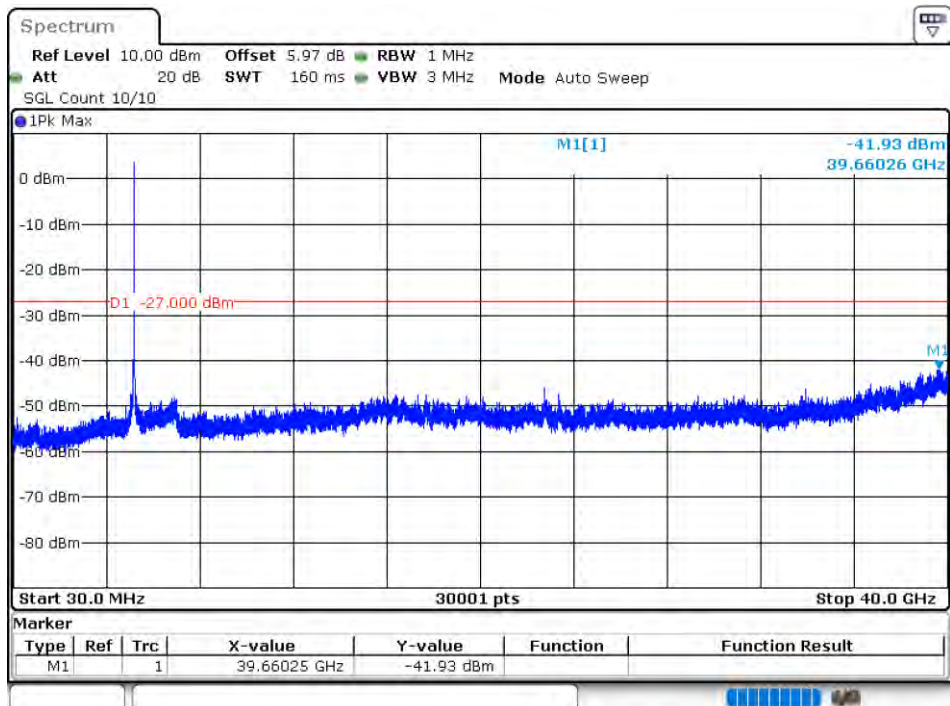
Tx. Spurious NVNT ac20 5240MHz Ant2 Emission



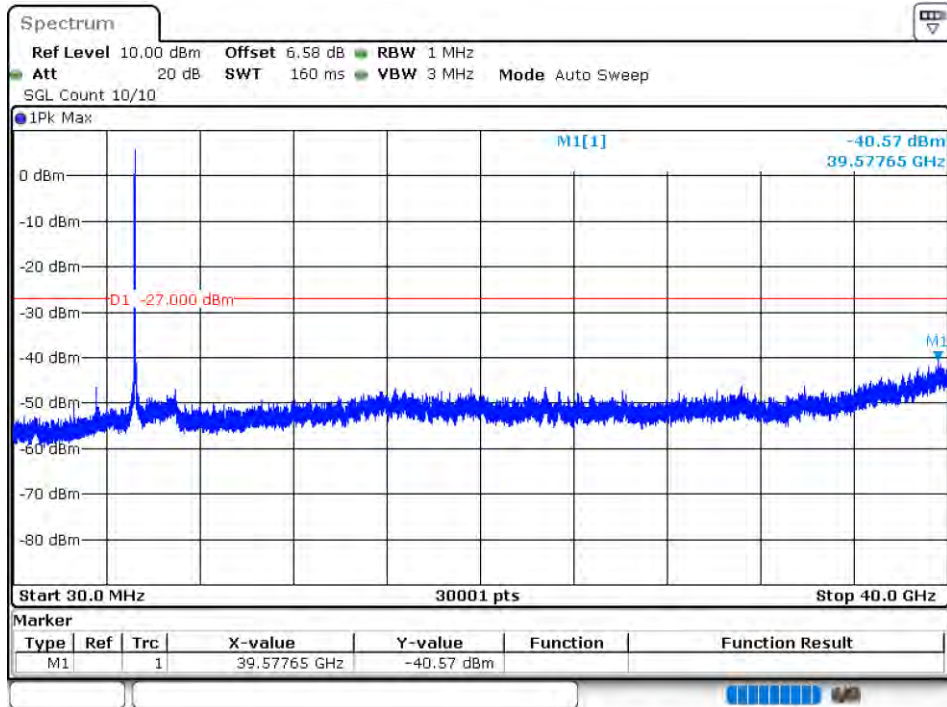
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



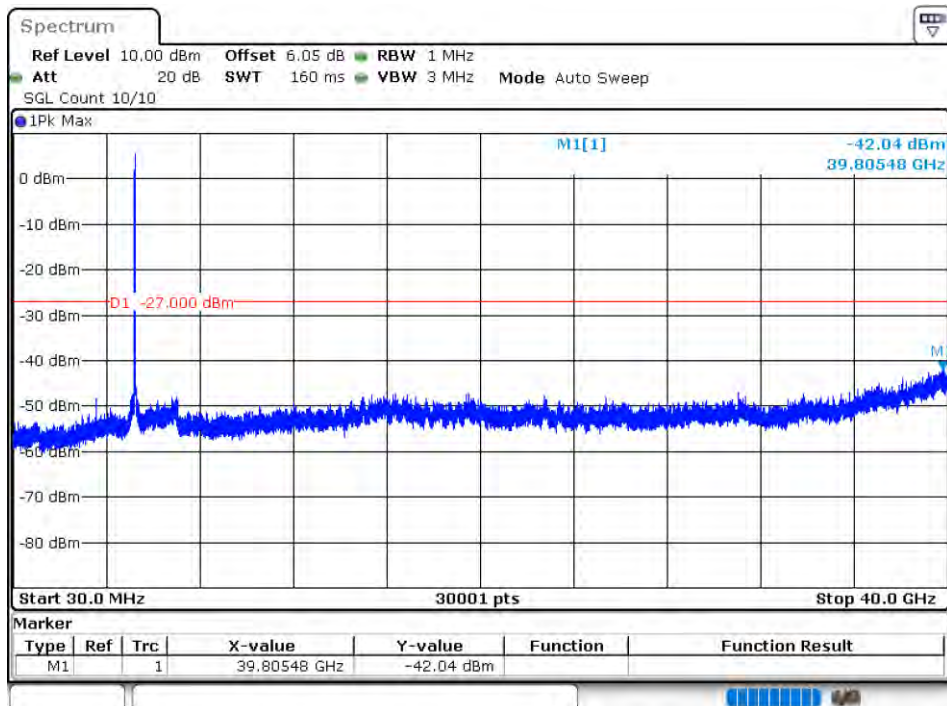
Tx. Spurious NVNT ac40 5190MHz Ant2 Emission



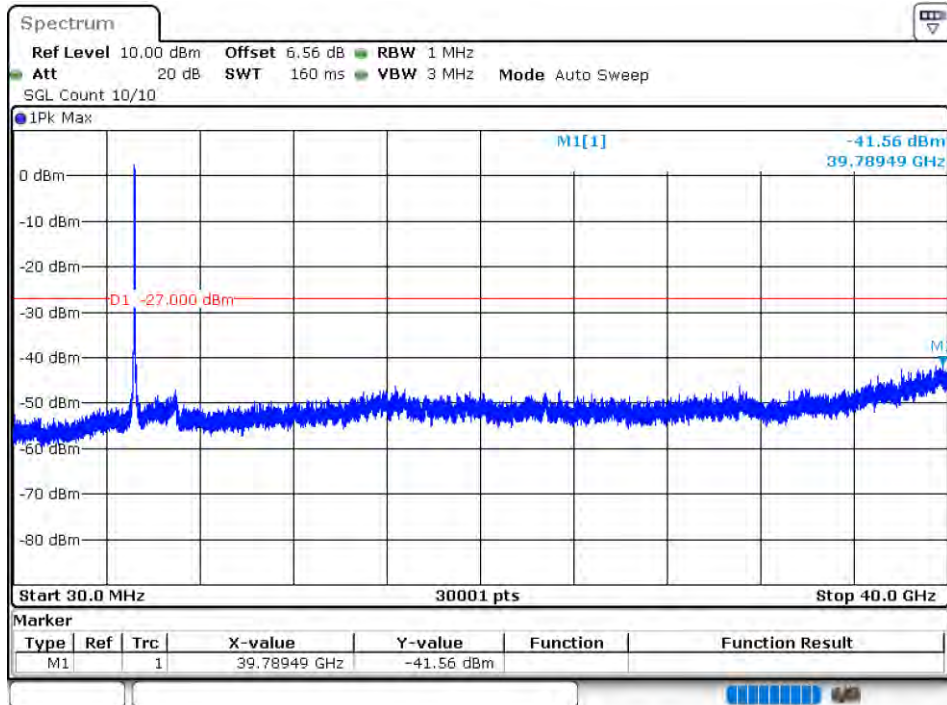
Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



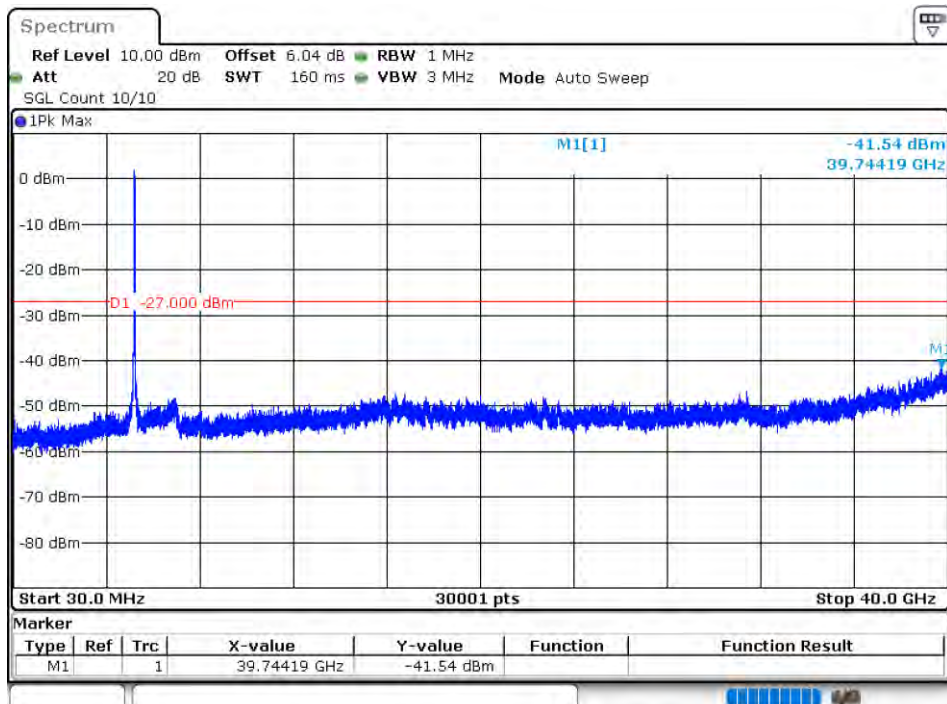
Tx. Spurious NVNT ac40 5230MHz Ant2 Emission



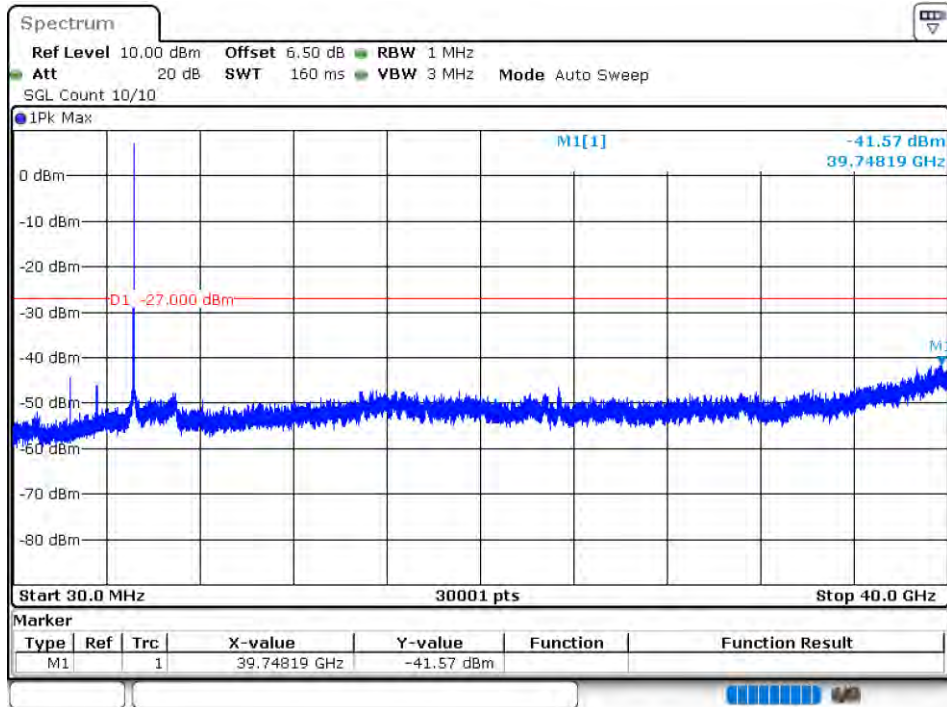
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



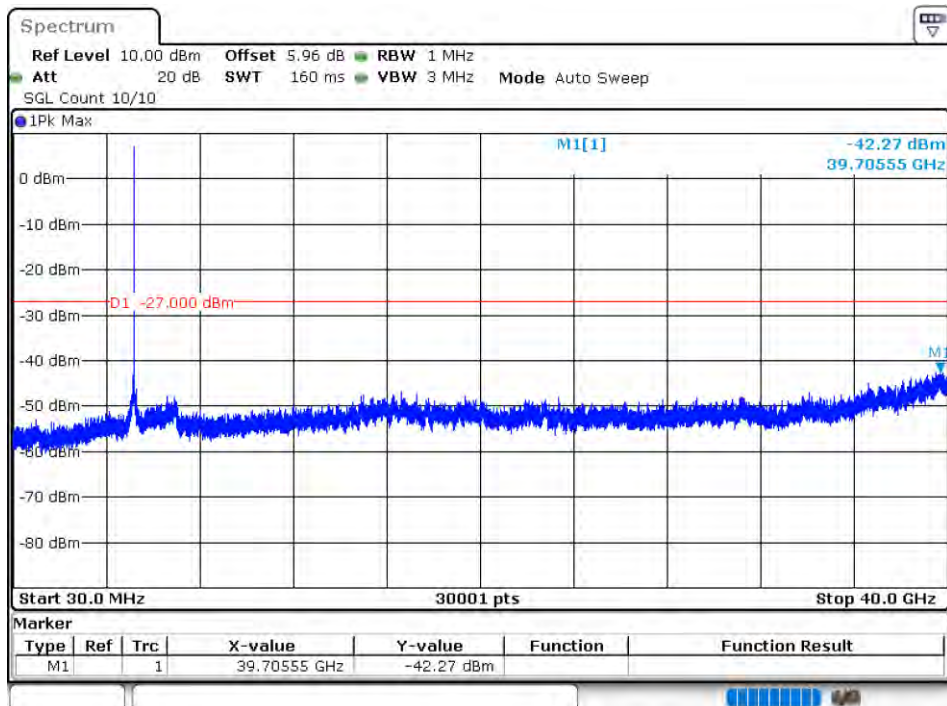
Tx. Spurious NVNT ac80 5210MHz Ant2 Emission



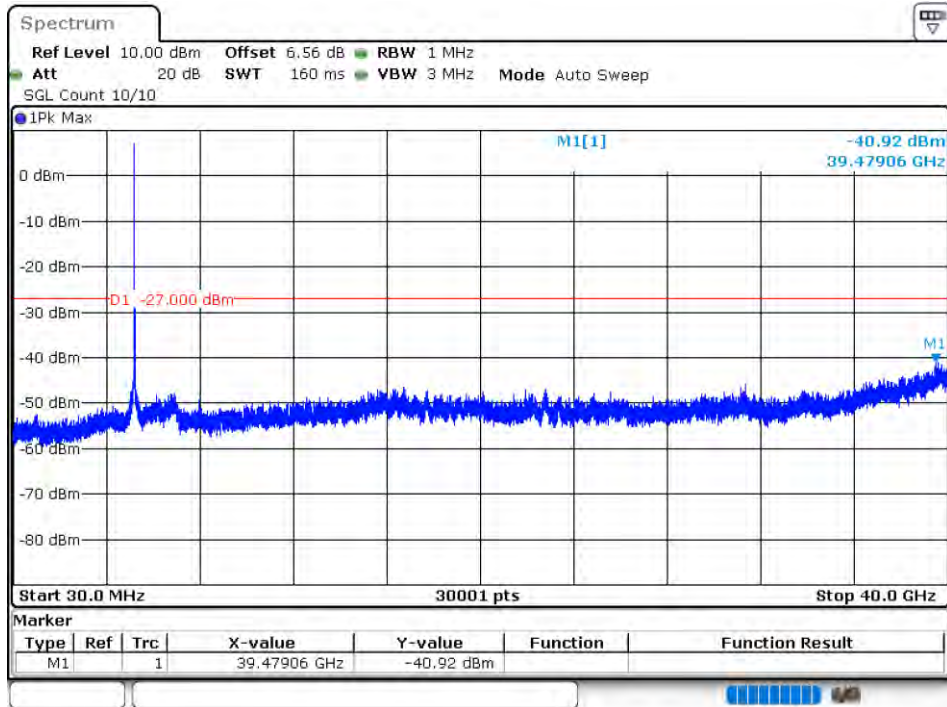
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



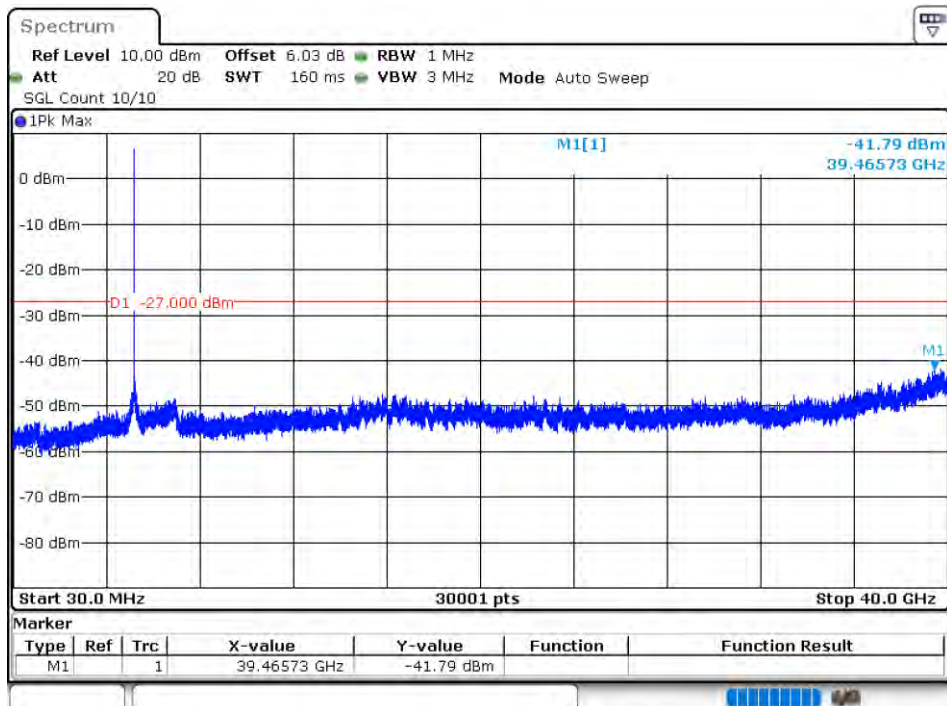
Tx. Spurious NVNT n20 5180MHz Ant2 Emission



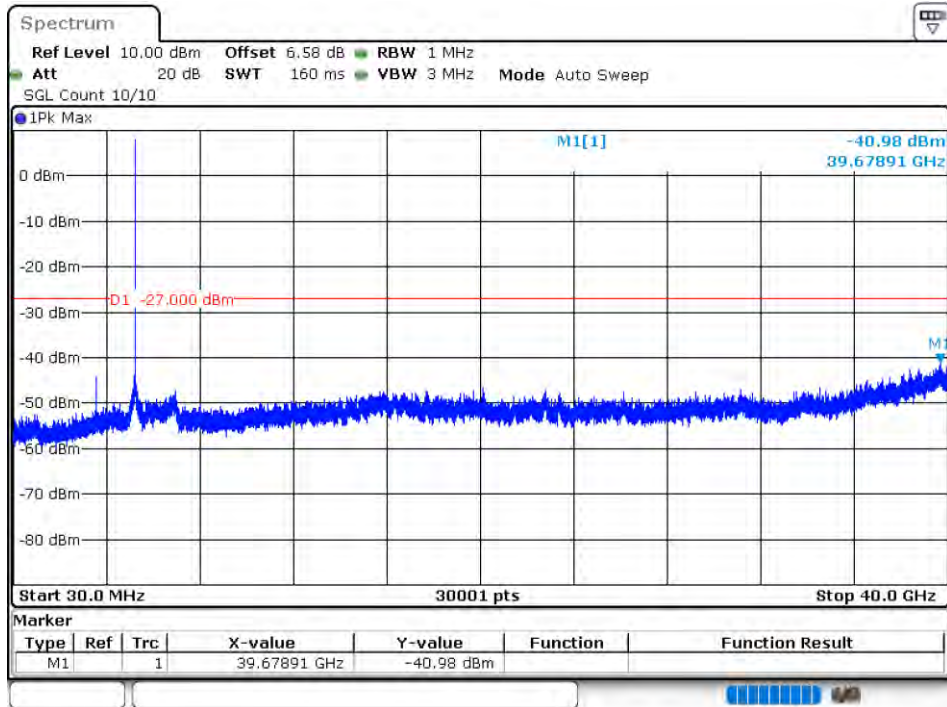
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



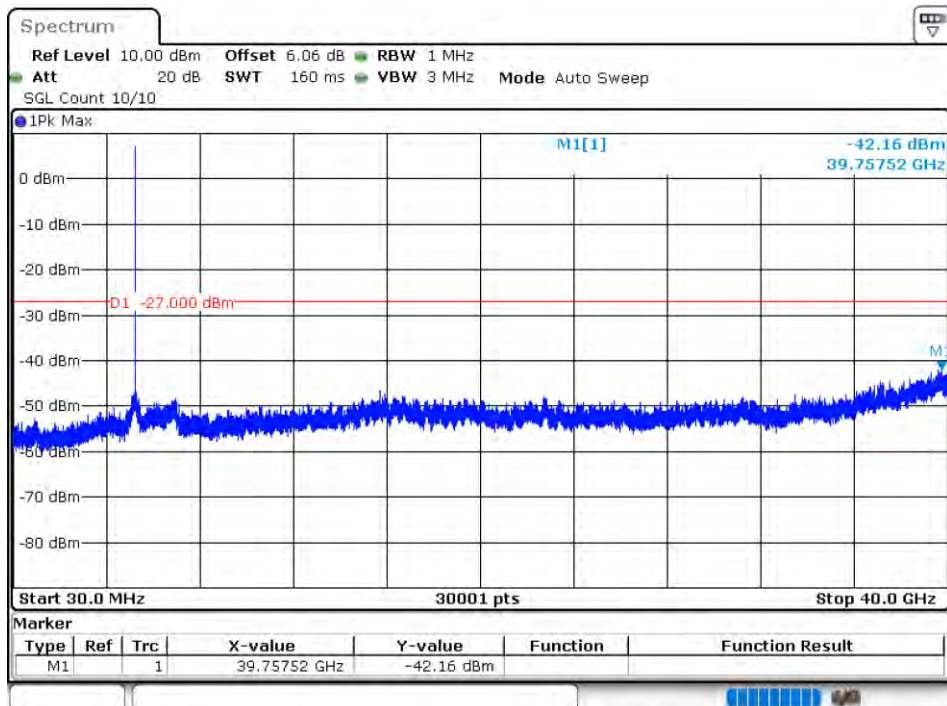
Tx. Spurious NVNT n20 5200MHz Ant2 Emission



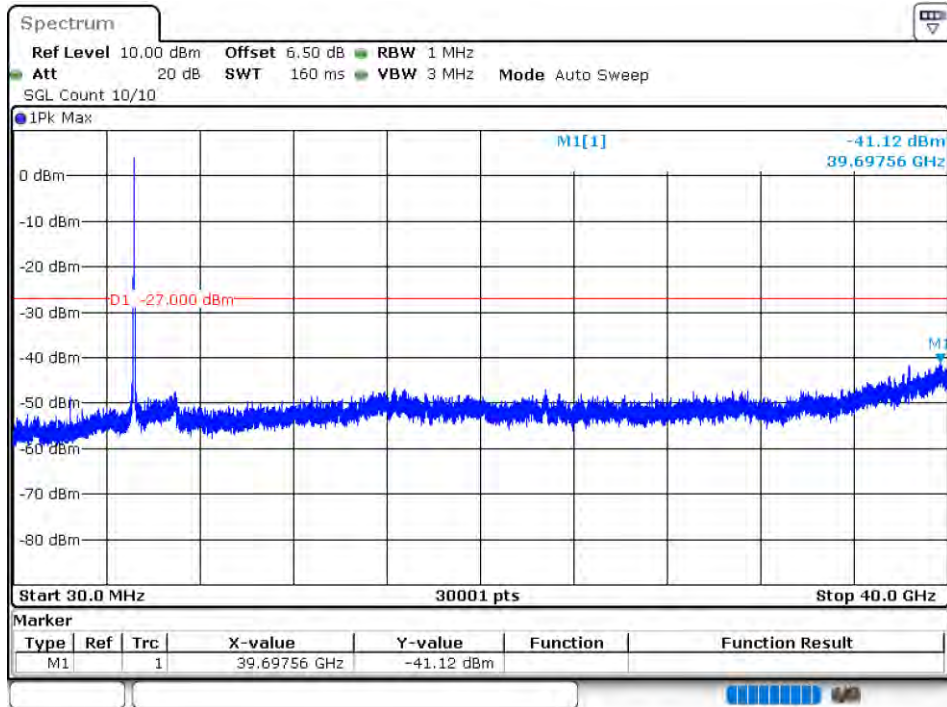
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



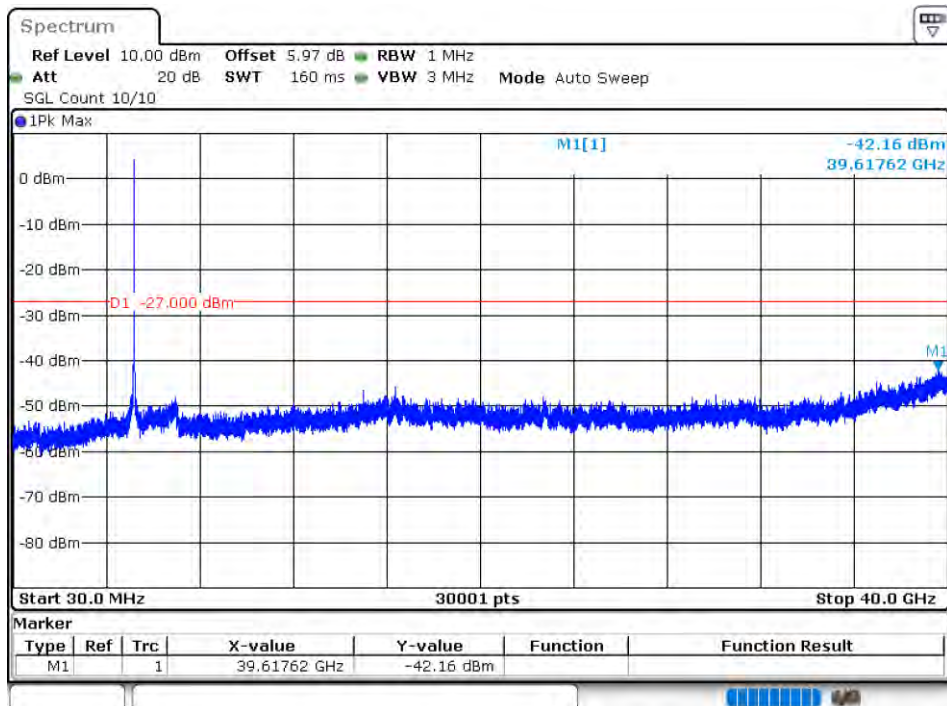
Tx. Spurious NVNT n20 5240MHz Ant2 Emission



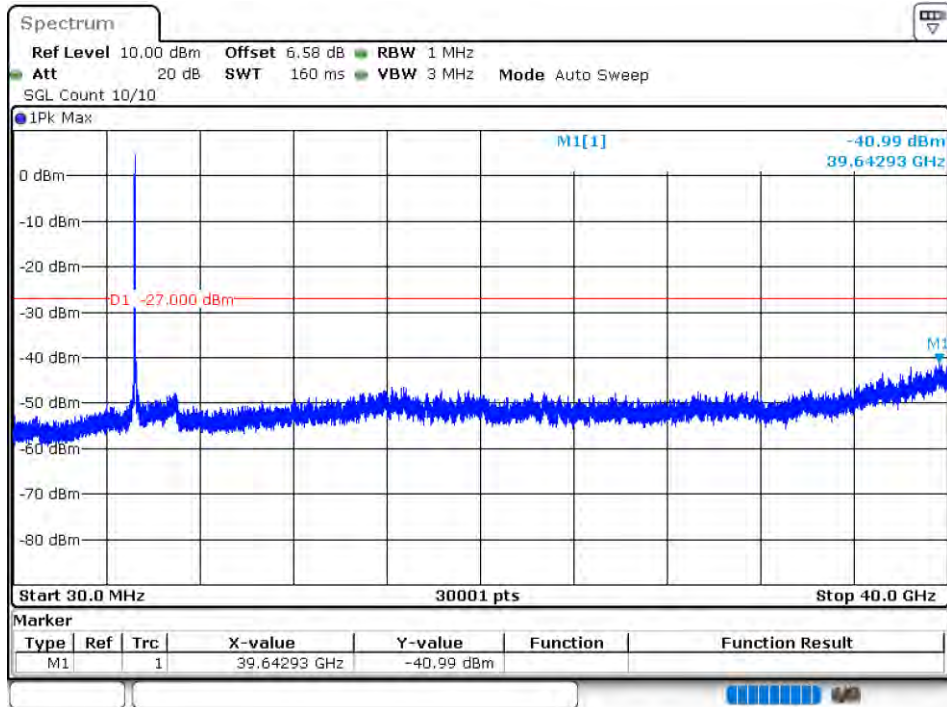
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



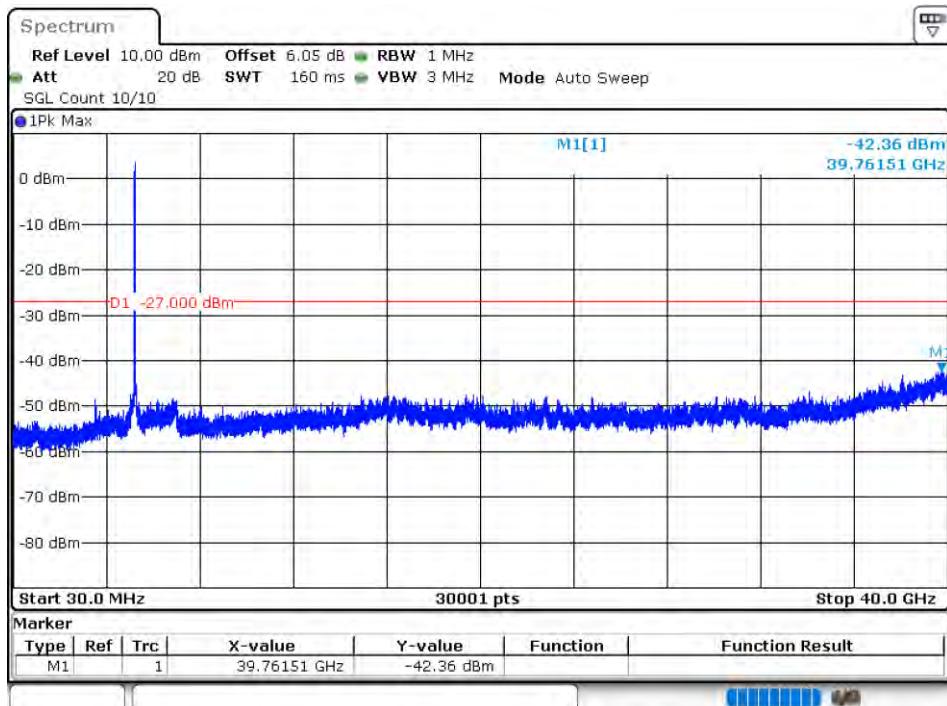
Tx. Spurious NVNT n40 5190MHz Ant2 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant2 Emission



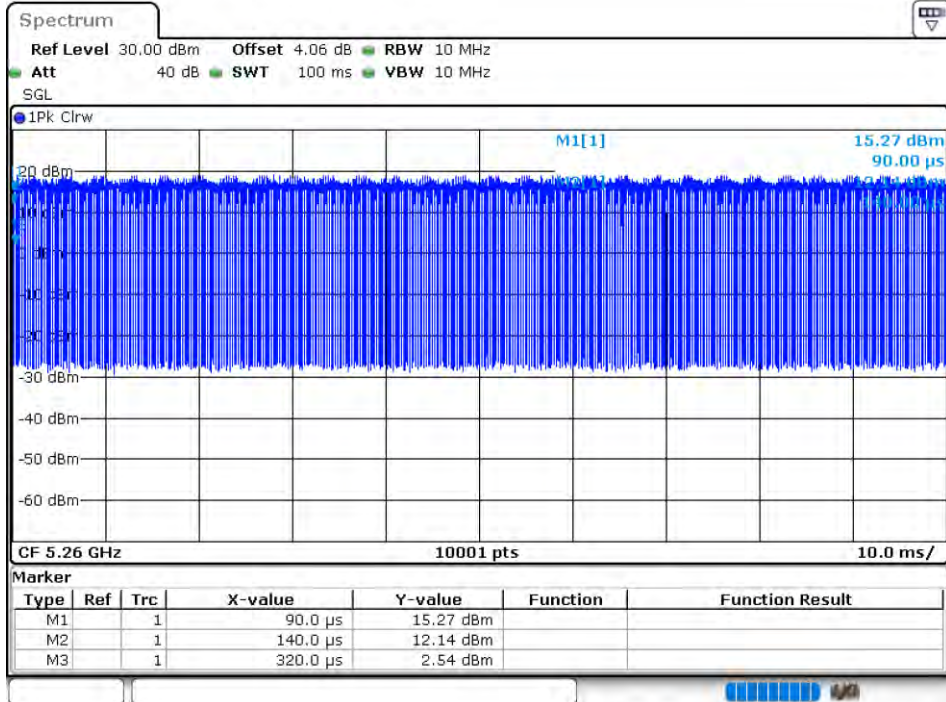
5.3G WIFI SISO

Duty Cycle

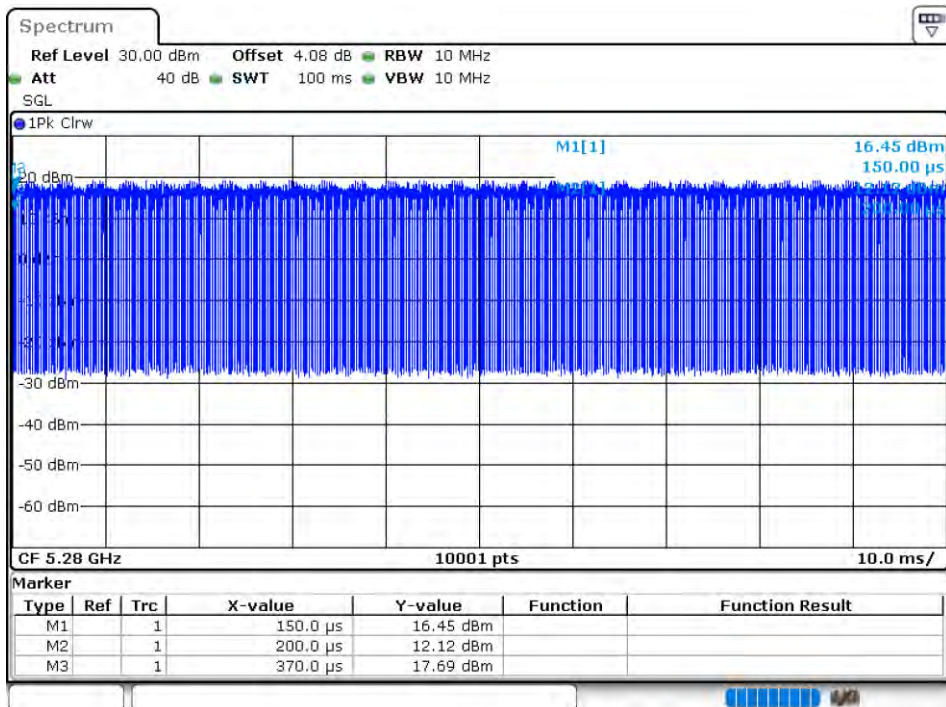
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	84.2	0.75	5.56
NVNT	a	5280	Ant1	84.21	0.75	5.88
NVNT	a	5320	Ant1	84.19	0.75	5.88
NVNT	a	5260	Ant2	84.3	0.74	5.88
NVNT	a	5280	Ant2	84.24	0.74	5.88
NVNT	a	5320	Ant2	84.34	0.74	5.88
NVNT	n20	5260	Ant1	83.31	0.79	5.88
NVNT	n20	5280	Ant1	83.26	0.8	6.25
NVNT	n20	5320	Ant1	83.31	0.79	6.25
NVNT	n20	5260	Ant2	83.37	0.79	6.25
NVNT	n20	5280	Ant2	83.37	0.79	6.25
NVNT	n20	5320	Ant2	83.39	0.79	5.88
NVNT	n40	5270	Ant1	76.28	1.18	10
NVNT	n40	5310	Ant1	76.34	1.17	10
NVNT	n40	5270	Ant2	76.41	1.17	10
NVNT	n40	5310	Ant2	76.54	1.16	10
NVNT	ac20	5260	Ant1	83.6	0.78	5.88
NVNT	ac20	5280	Ant1	83.58	0.78	5.88
NVNT	ac20	5320	Ant1	83.6	0.78	5.88
NVNT	ac20	5260	Ant2	83.67	0.77	5.88
NVNT	ac20	5280	Ant2	83.67	0.77	6.25
NVNT	ac20	5320	Ant2	83.7	0.77	5.88
NVNT	ac40	5270	Ant1	77.01	1.13	10
NVNT	ac40	5310	Ant1	76.87	1.14	10
NVNT	ac40	5270	Ant2	77.04	1.13	10
NVNT	ac40	5310	Ant2	77.02	1.13	9.09
NVNT	ac80	5290	Ant1	70.91	1.49	14.29
NVNT	ac80	5290	Ant2	71.06	1.48	14.29

Test Graphs

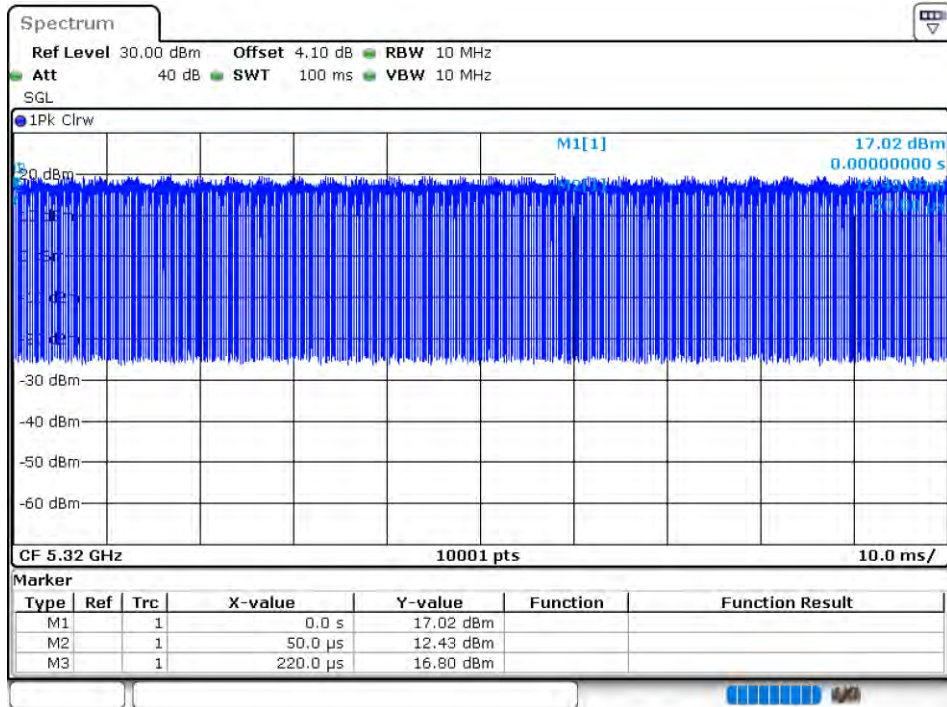
Duty Cycle NVNT a 5260MHz Ant1



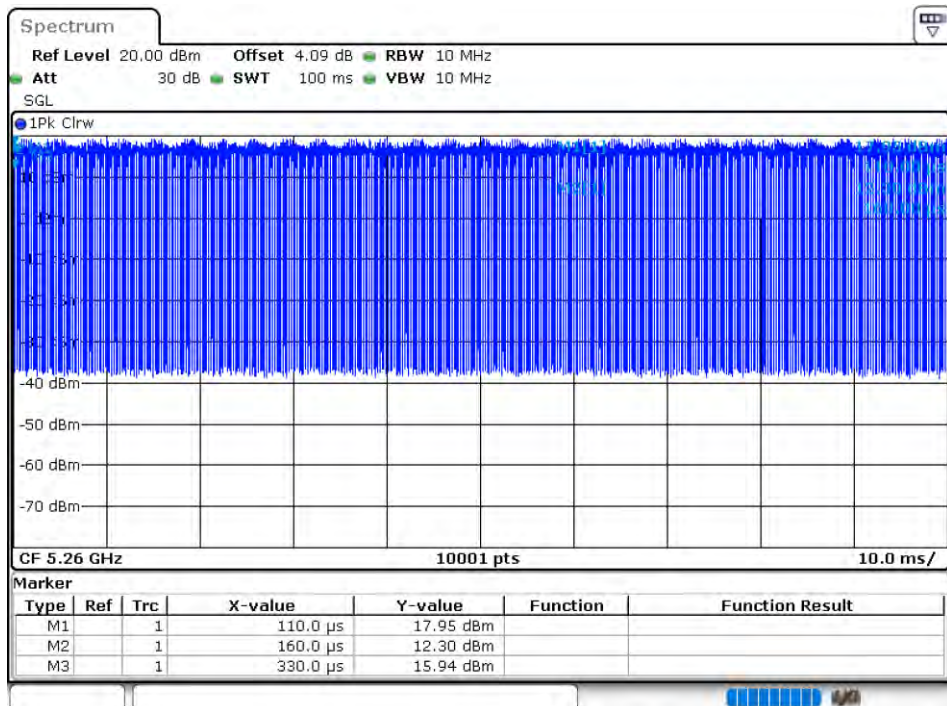
Duty Cycle NVNT a 5280MHz Ant1

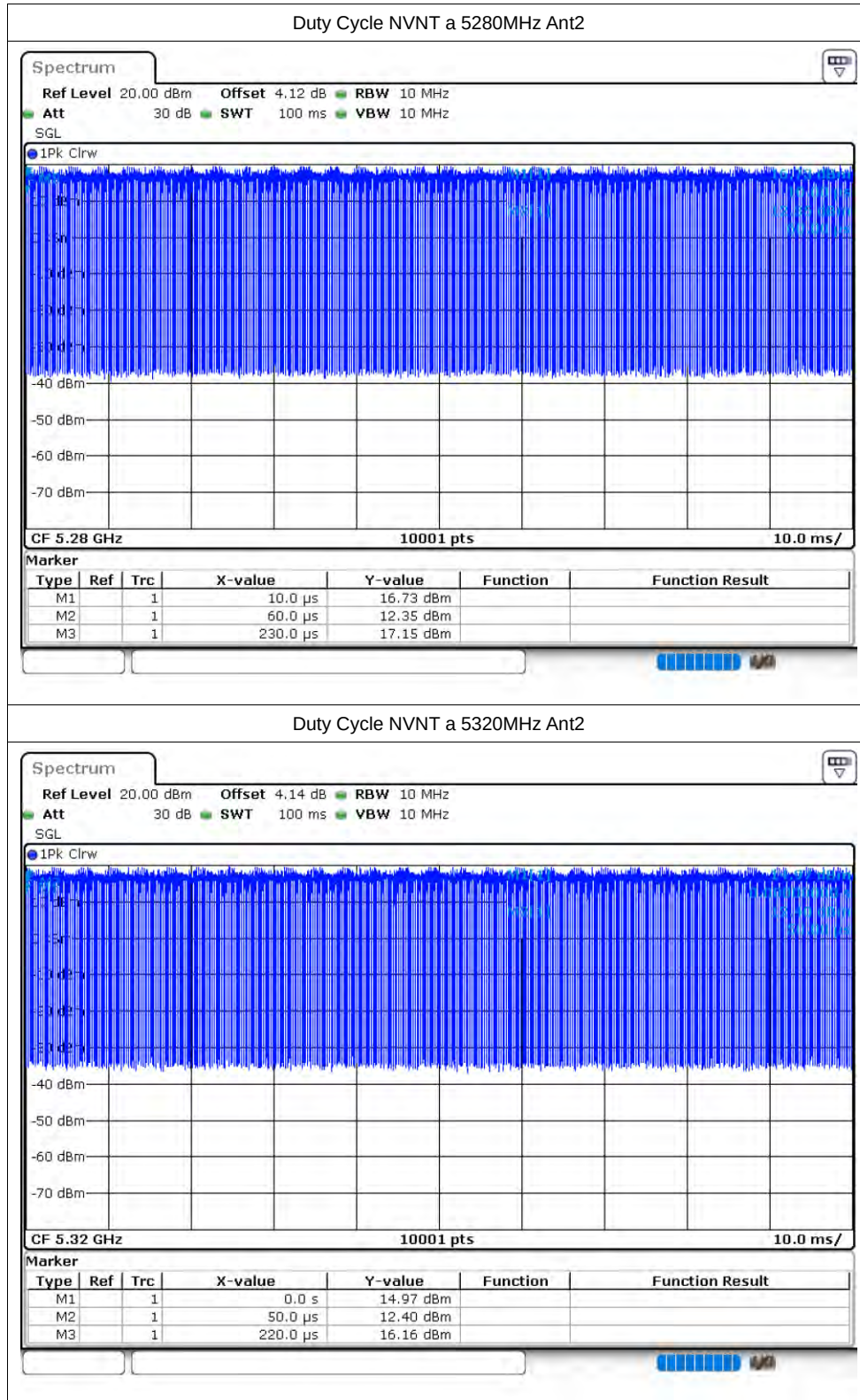


Duty Cycle NVNT a 5320MHz Ant1

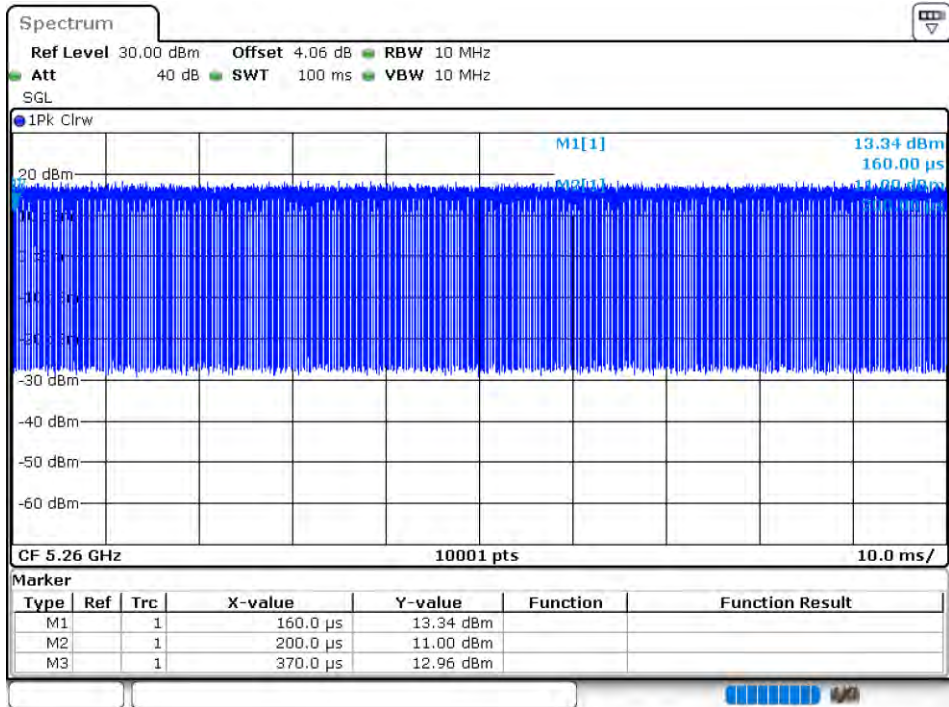


Duty Cycle NVNT a 5260MHz Ant2

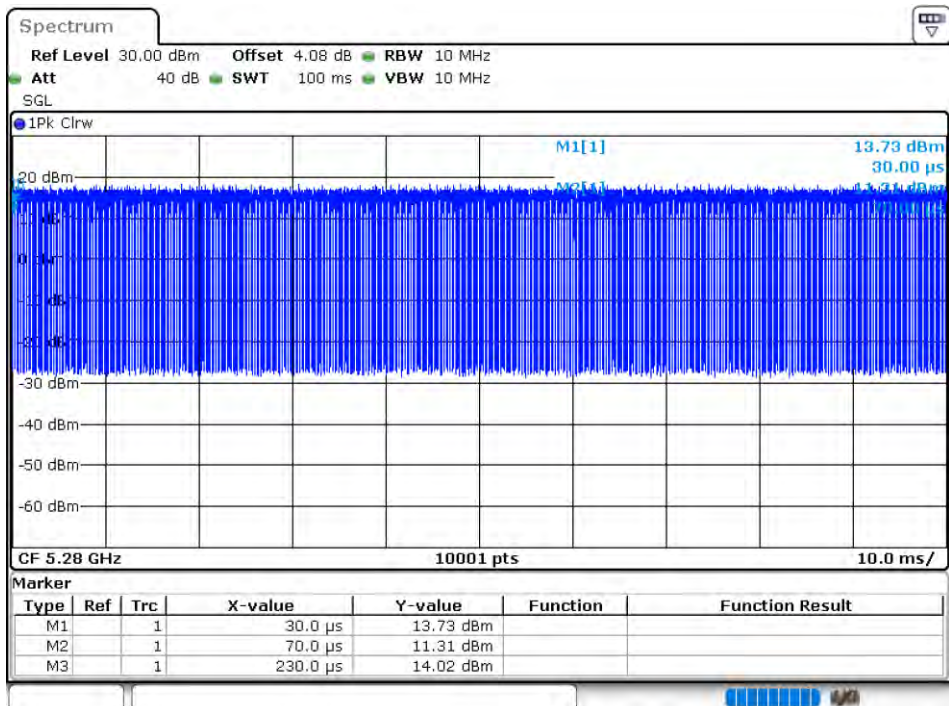


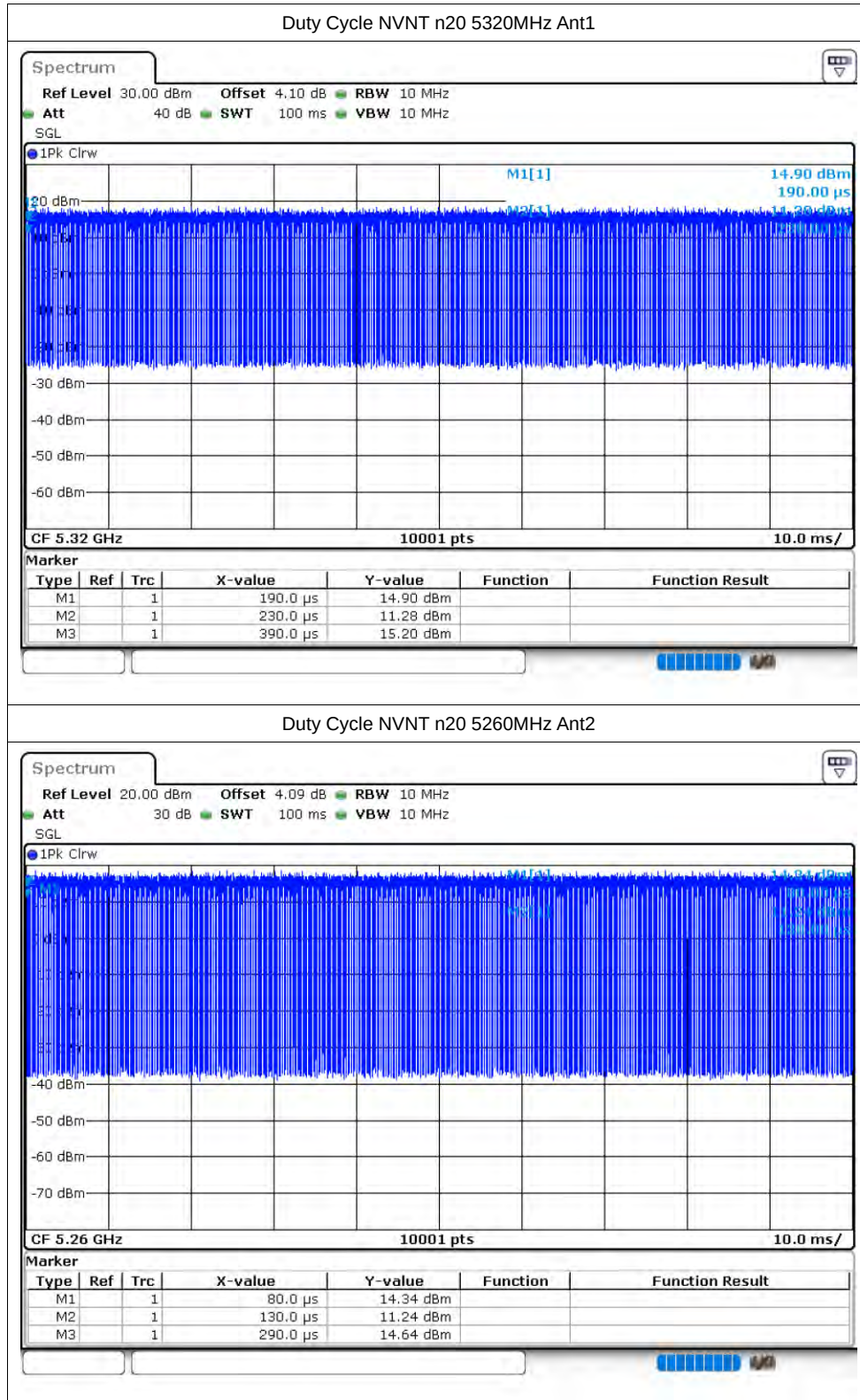


Duty Cycle NVNT n20 5260MHz Ant1

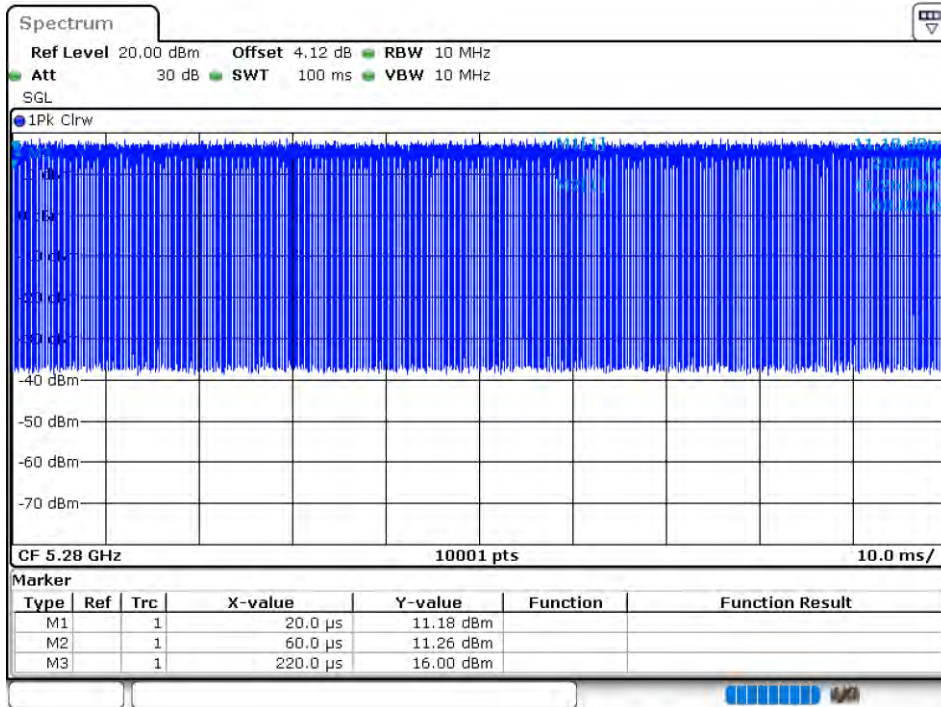


Duty Cycle NVNT n20 5280MHz Ant1

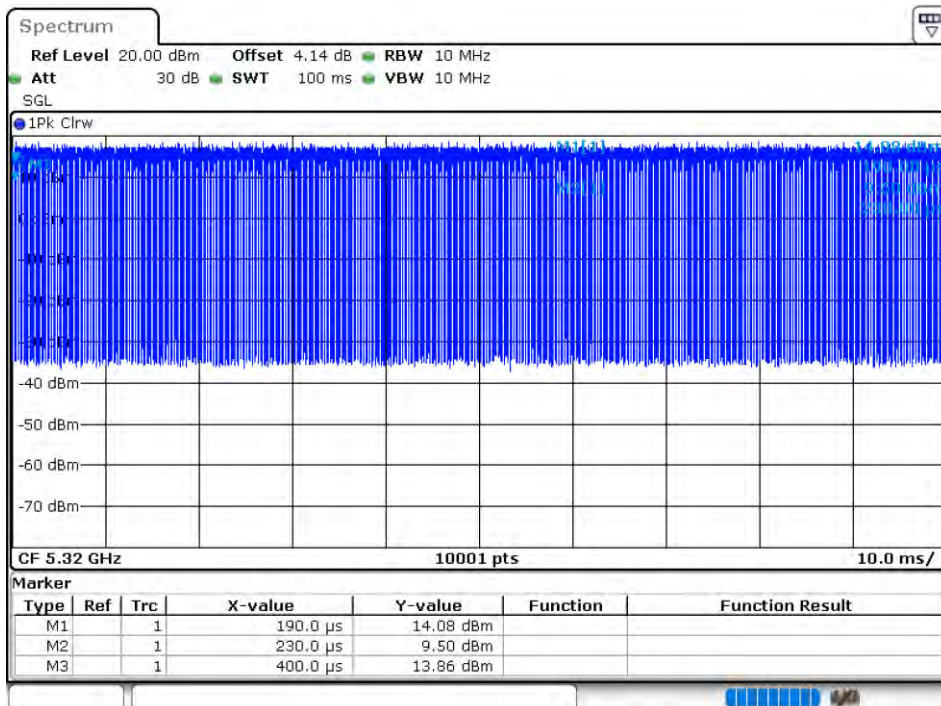




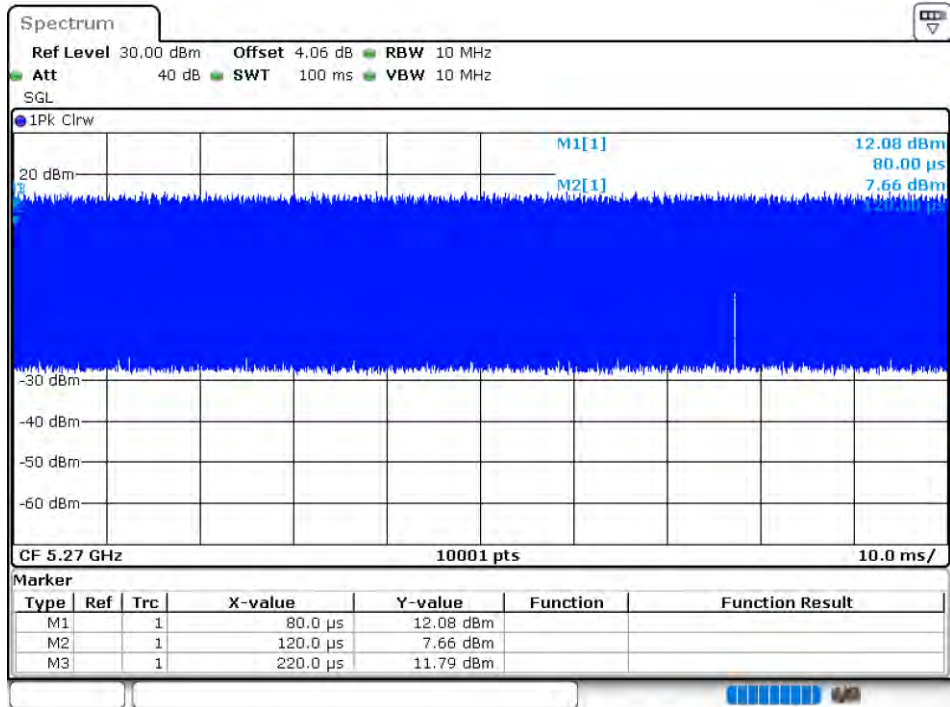
Duty Cycle NVNT n20 5280MHz Ant2



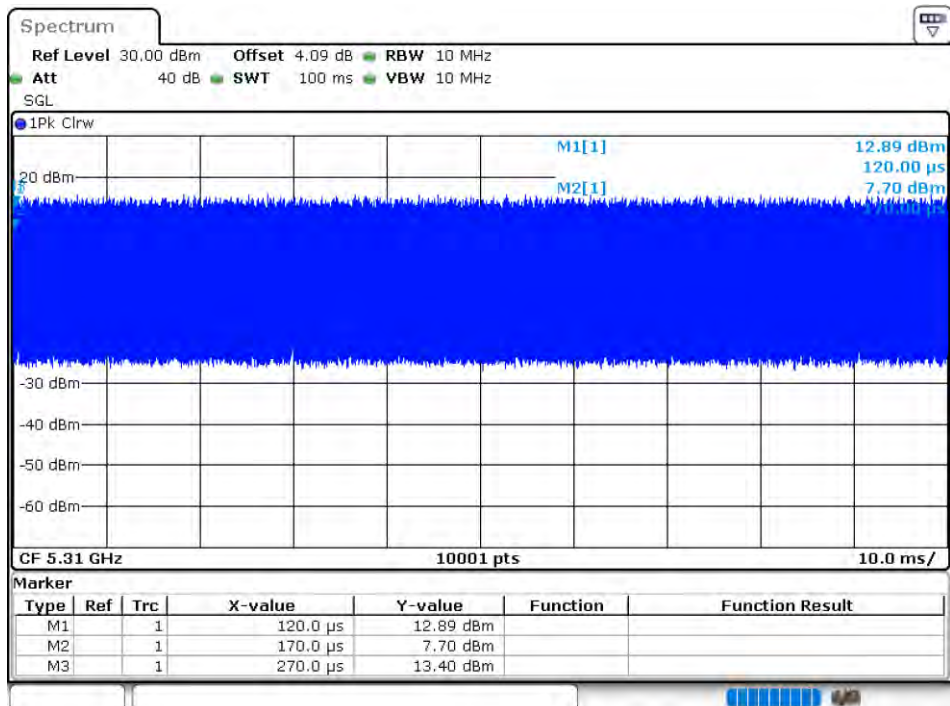
Duty Cycle NVNT n20 5320MHz Ant2

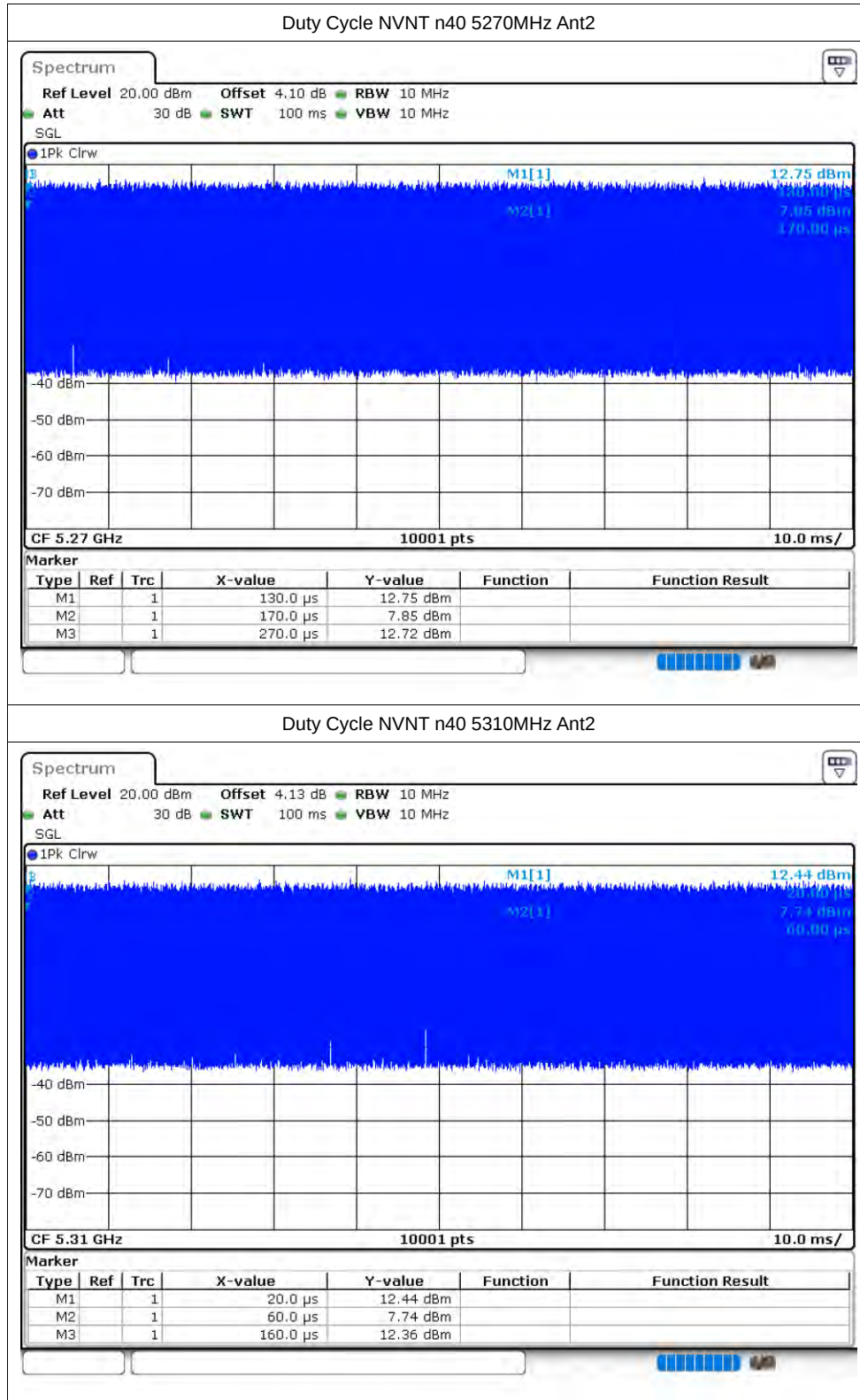


Duty Cycle NVNT n40 5270MHz Ant1

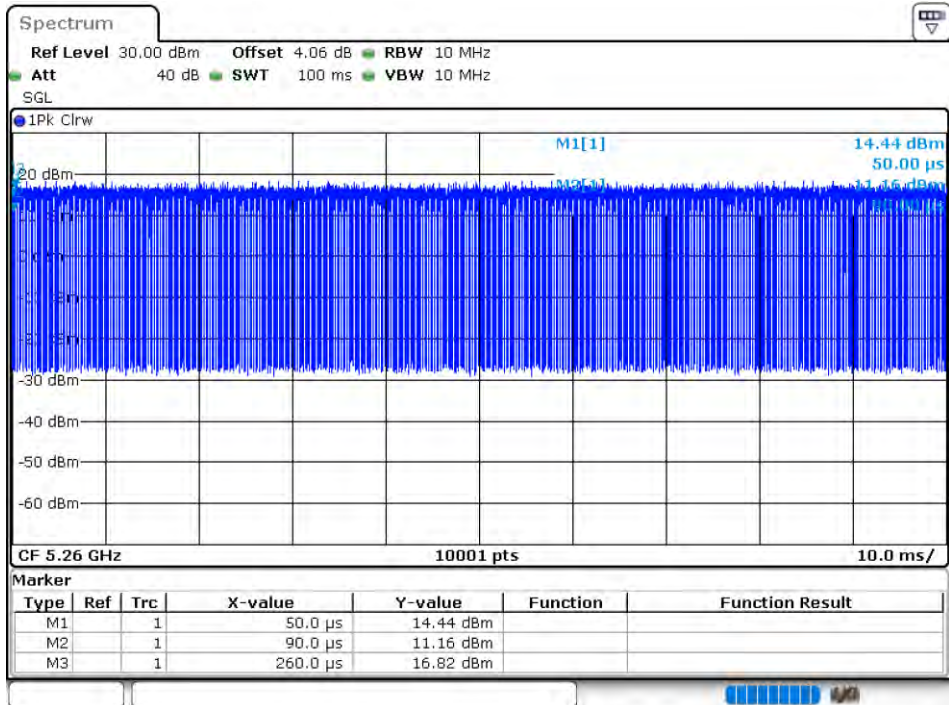


Duty Cycle NVNT n40 5310MHz Ant1





Duty Cycle NVNT ac20 5260MHz Ant1



Duty Cycle NVNT ac20 5280MHz Ant1

