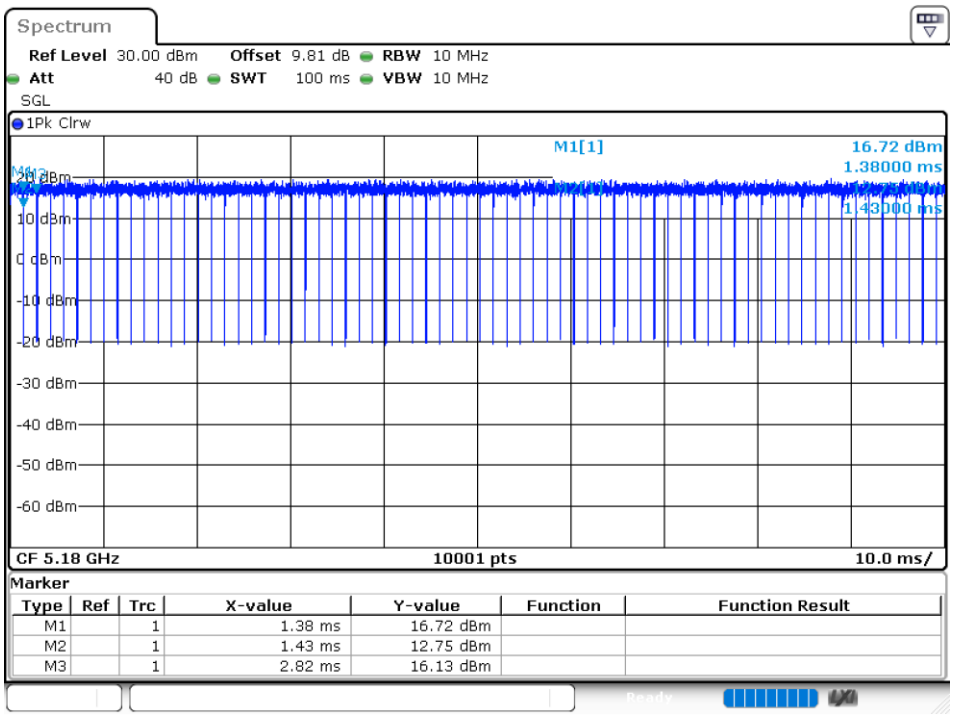
5.2G WIFI:

Duty Cycle

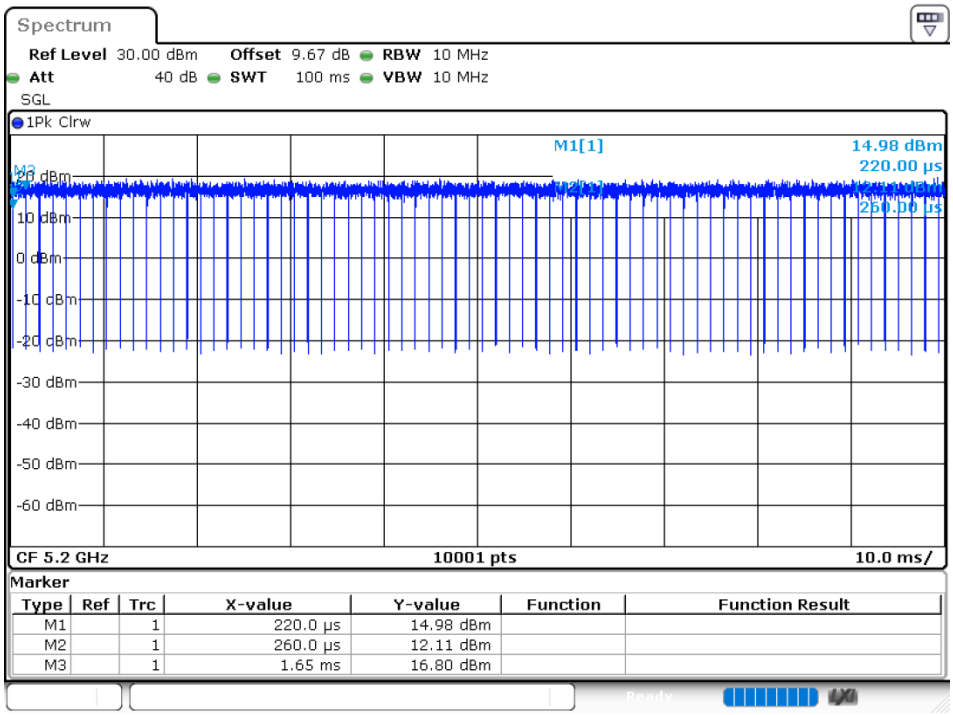
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.61	0.11	0.72
NVNT	a	5200	Ant1	97.58	0.11	0.72
NVNT	a	5240	Ant1	97.58	0.11	0.71
NVNT	n20	5180	Ant1	97.41	0.11	0.77
NVNT	n20	5200	Ant1	97.44	0.11	0.77
NVNT	n20	5240	Ant1	97.41	0.11	0.77
NVNT	n40	5190	Ant1	95.07	0.22	1.54
NVNT	n40	5230	Ant1	95.05	0.22	1.54
NVNT	ac20	5180	Ant1	97.49	0.11	0.76
NVNT	ac20	5200	Ant1	97.49	0.11	0.76
NVNT	ac20	5240	Ant1	97.45	0.11	0.76
NVNT	ac40	5190	Ant1	95.09	0.22	1.54
NVNT	ac40	5230	Ant1	95.08	0.22	1.54
NVNT	ac80	5210	Ant1	90.68	0.42	3.03

Test Graphs

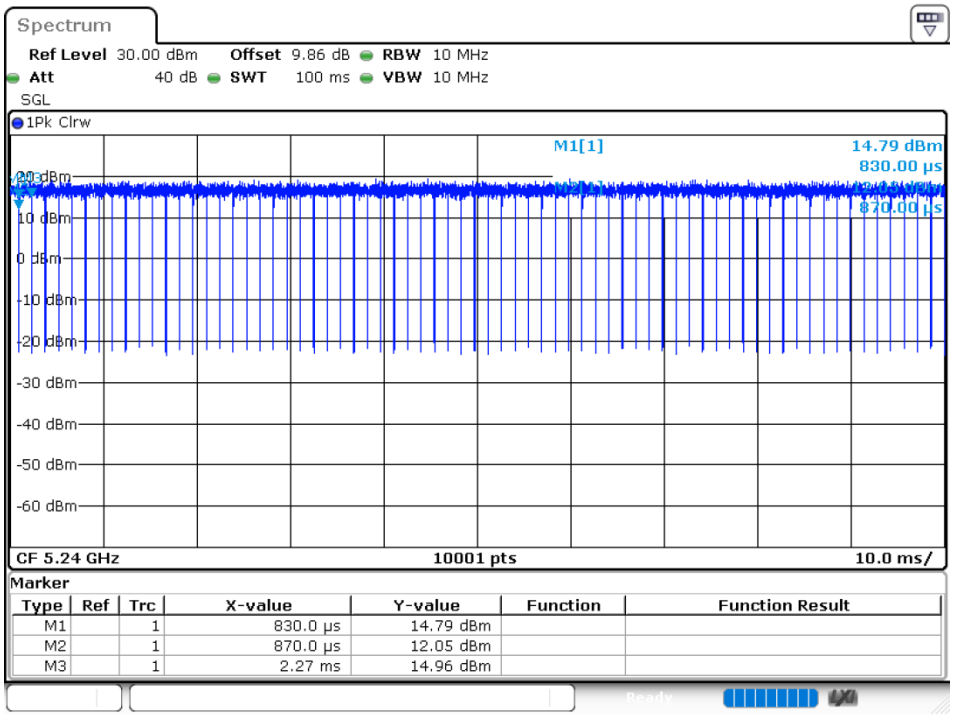
Duty Cycle NVNT a 5180MHz Ant1



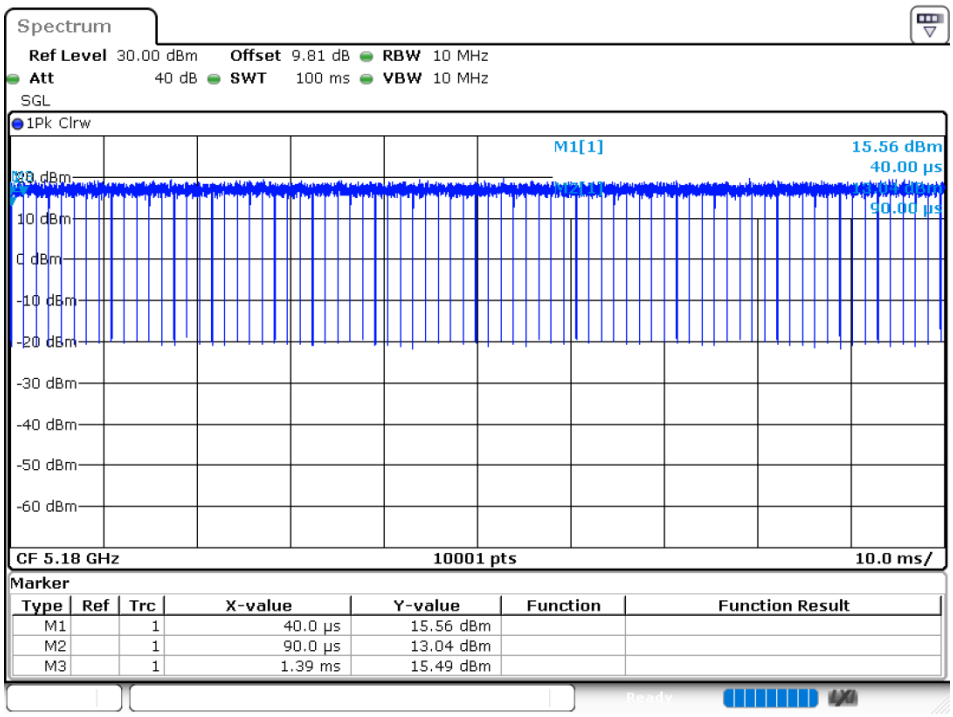
Duty Cycle NVNT a 5200MHz Ant1



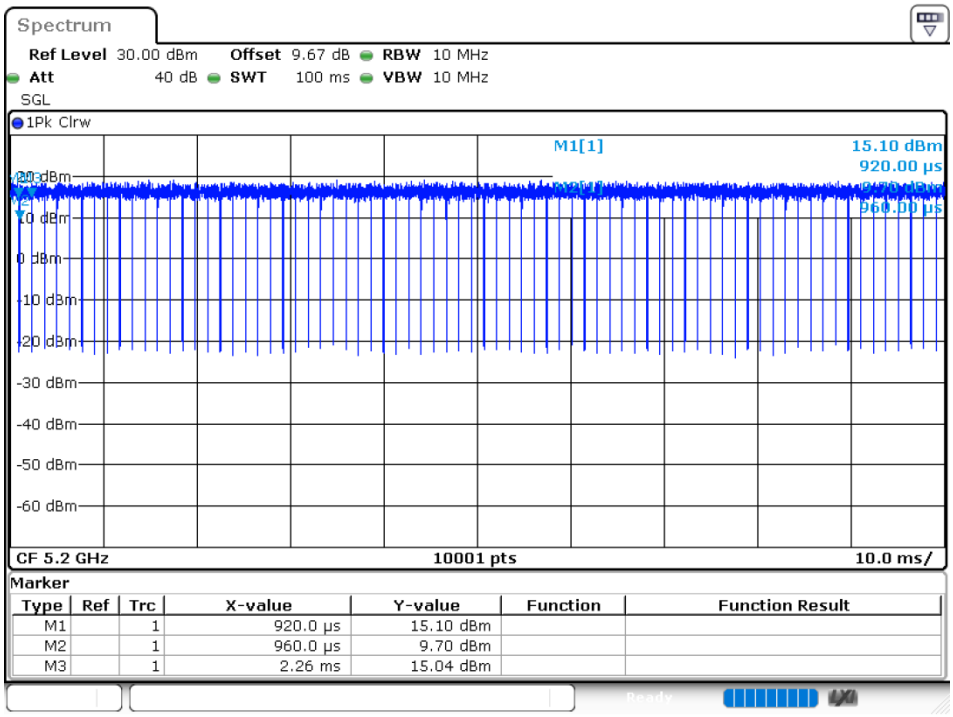
Duty Cycle NVNT a 5240MHz Ant1



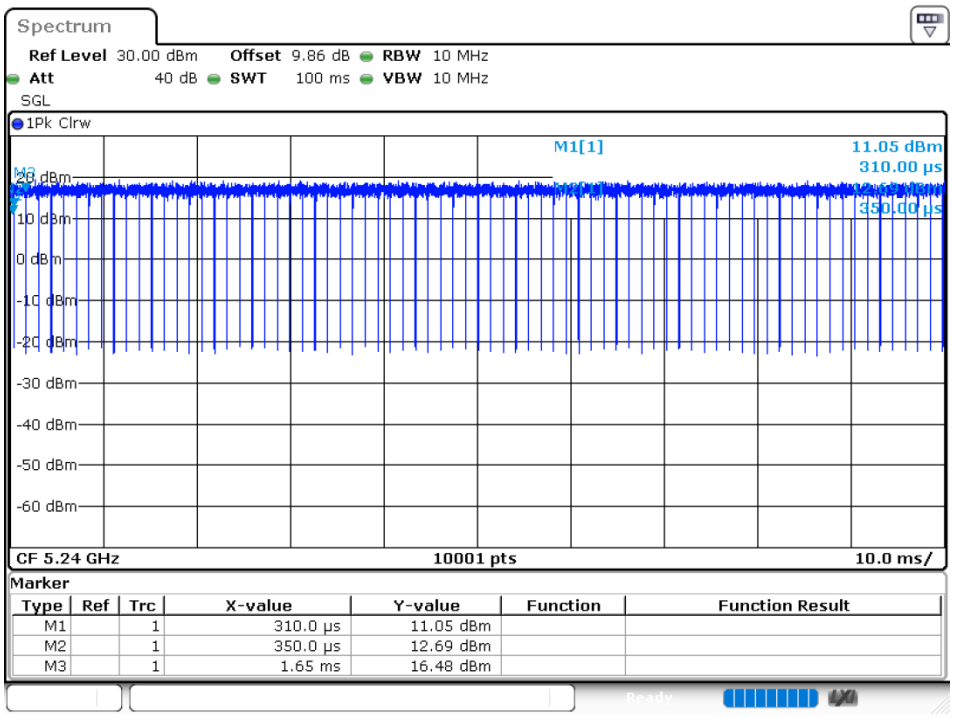
Duty Cycle NVNT n20 5180MHz Ant1



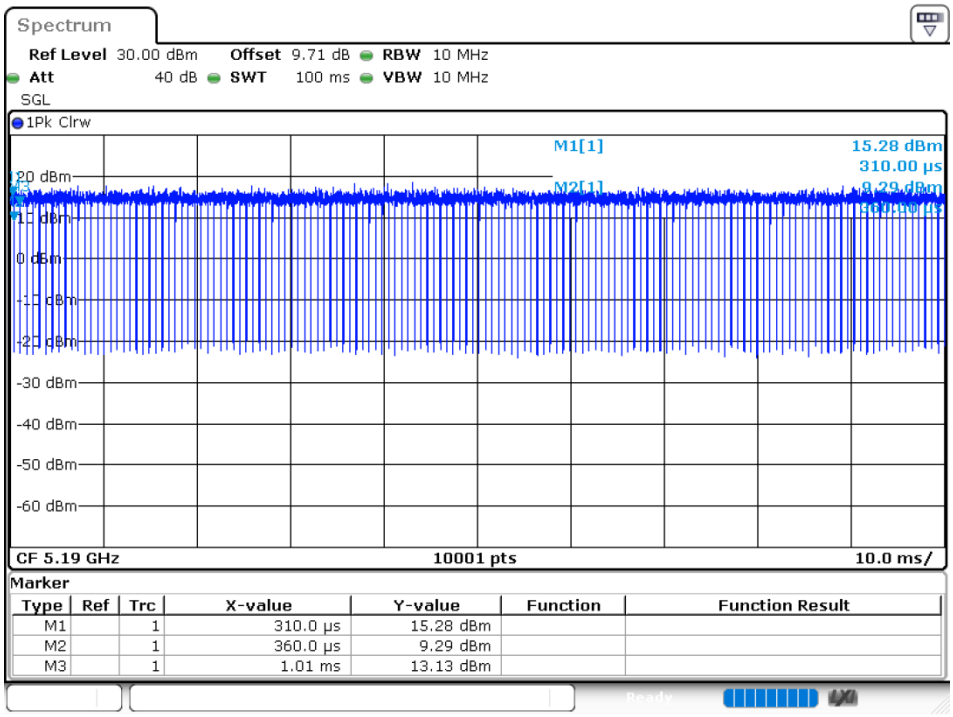
Duty Cycle NVNT n20 5200MHz Ant1



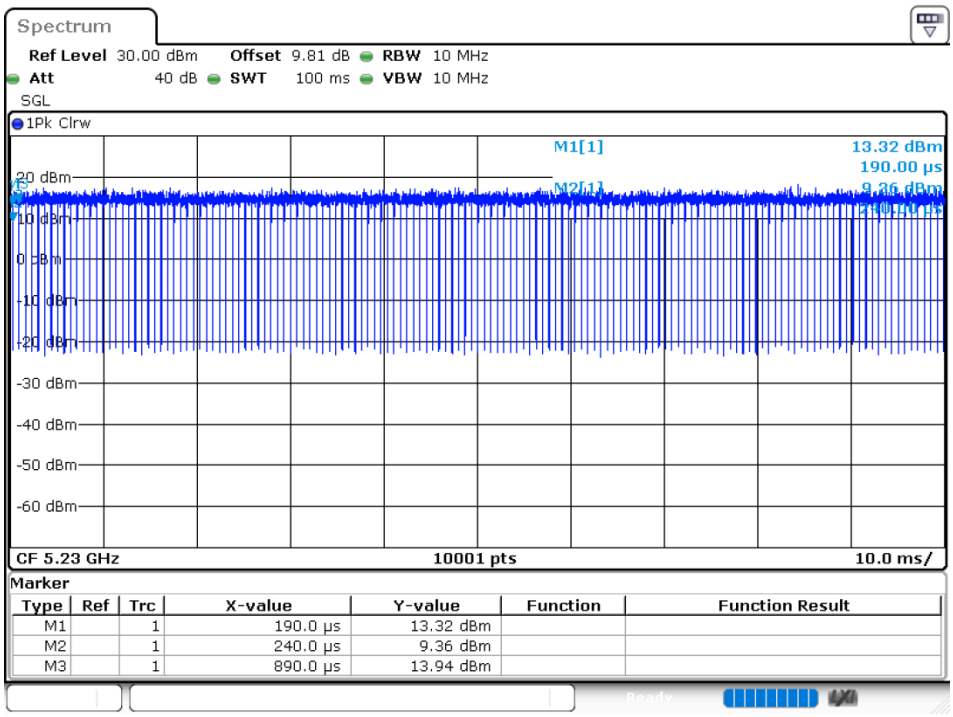
Duty Cycle NVNT n20 5240MHz Ant1



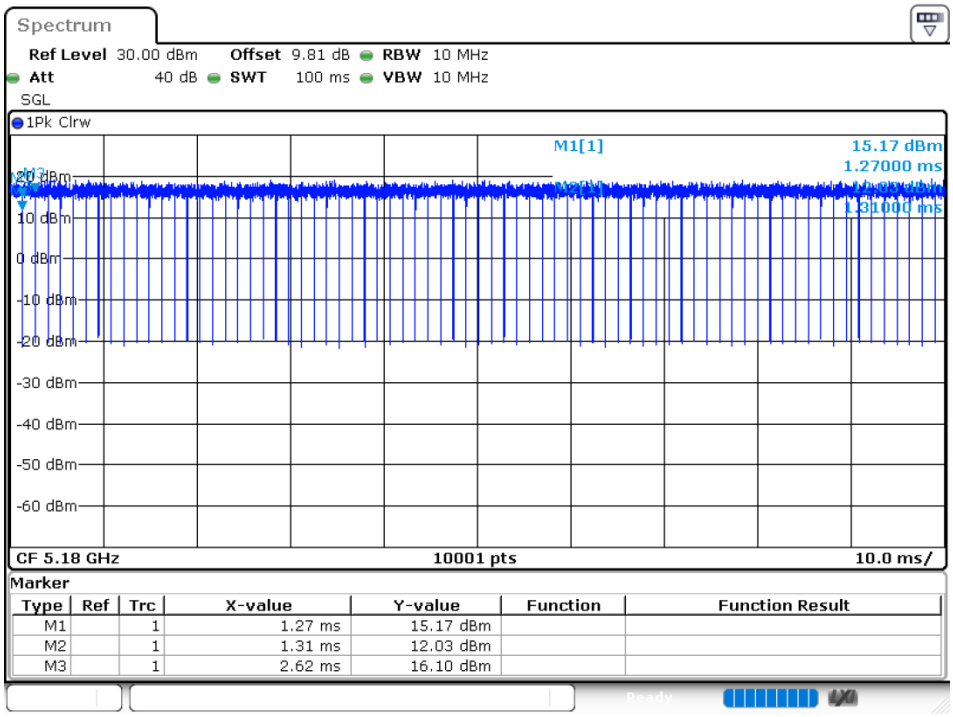
Duty Cycle NVNT n40 5190MHz Ant1



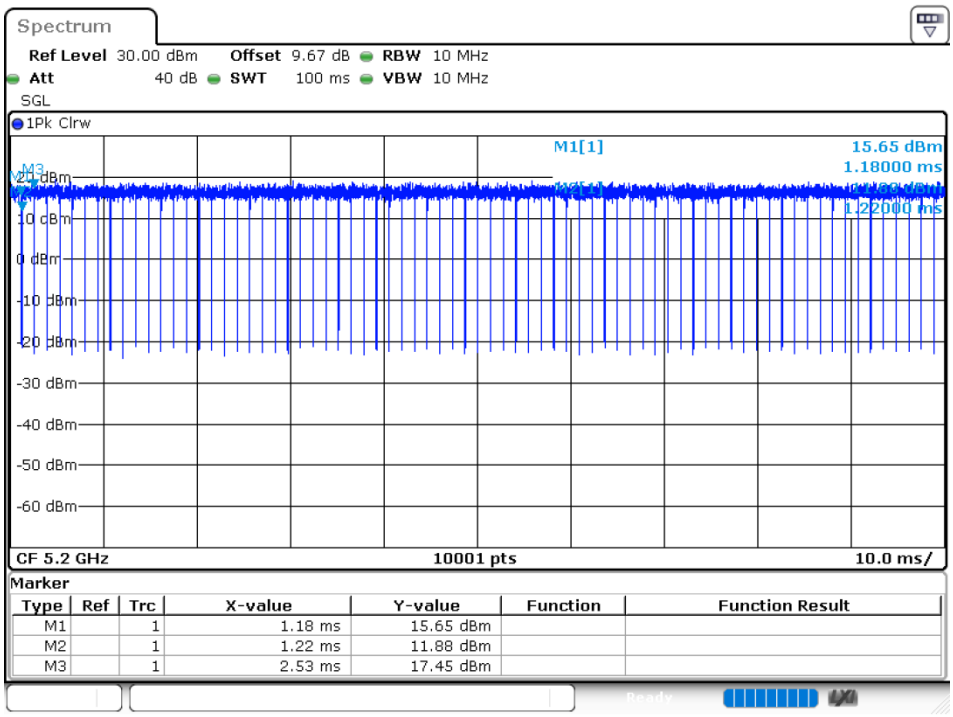
Duty Cycle NVNT n40 5230MHz Ant1



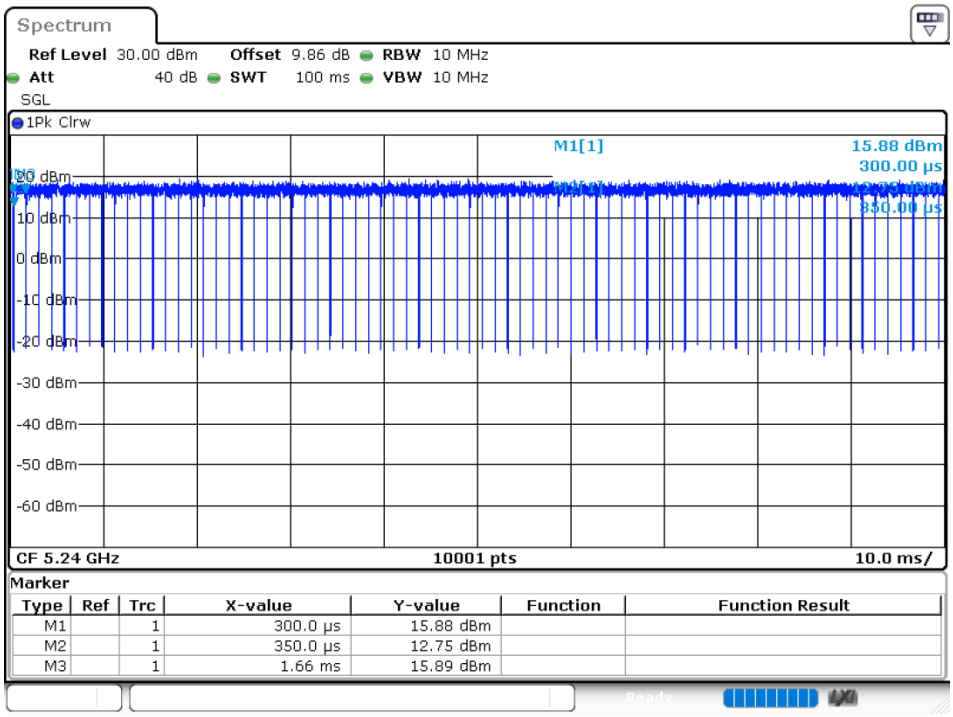
Duty Cycle NVNT ac20 5180MHz Ant1



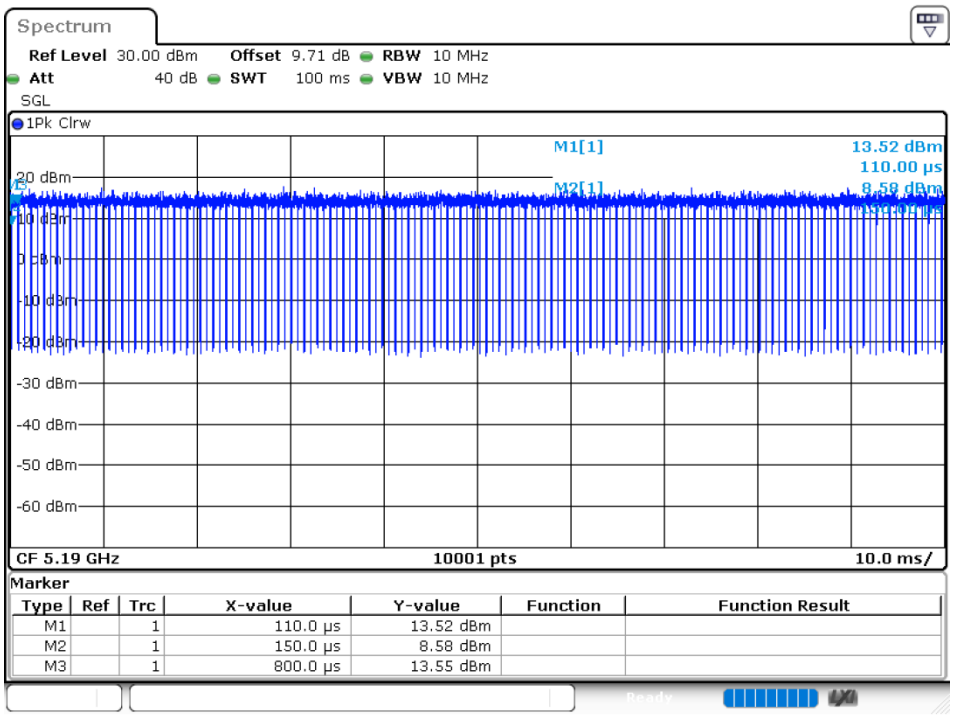
Duty Cycle NVNT ac20 5200MHz Ant1



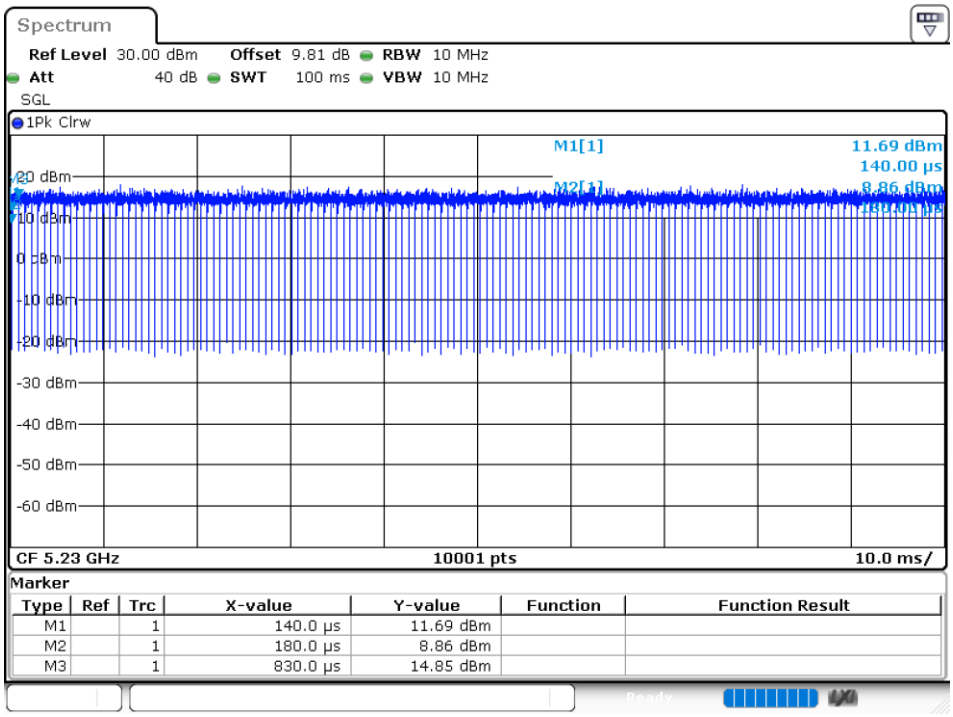
Duty Cycle NVNT ac20 5240MHz Ant1



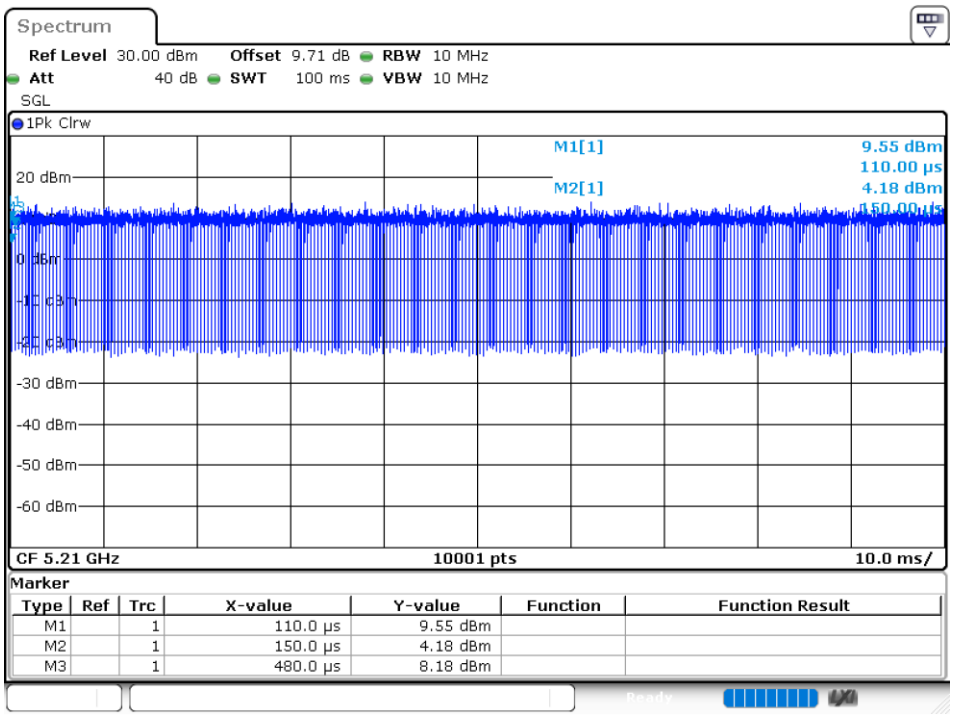
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

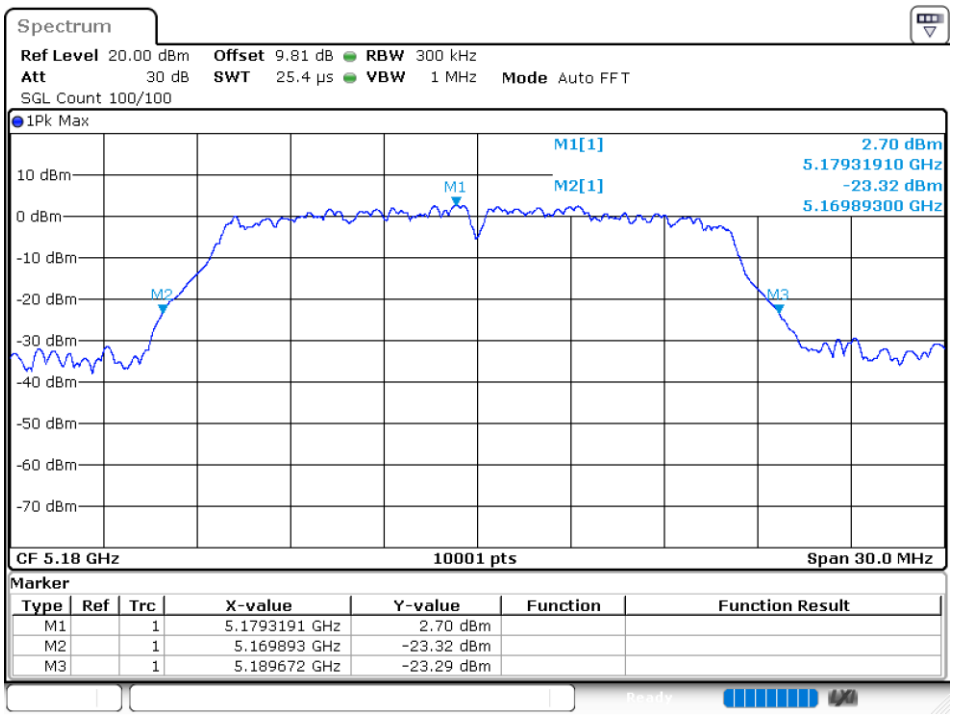
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.62	0.11	10.73	24	Pass
NVNT	a	5200	Ant1	10.34	0.11	10.45	24	Pass
NVNT	a	5240	Ant1	9.96	0.11	10.07	24	Pass
NVNT	n20	5180	Ant1	10.63	0.11	10.74	24	Pass
NVNT	n20	5200	Ant1	10.12	0.11	10.23	24	Pass
NVNT	n20	5240	Ant1	10.3	0.11	10.41	24	Pass
NVNT	n40	5190	Ant1	10.52	0.22	10.74	24	Pass
NVNT	n40	5230	Ant1	10.31	0.22	10.53	24	Pass
NVNT	ac20	5180	Ant1	10.07	0.11	10.18	24	Pass
NVNT	ac20	5200	Ant1	10.23	0.11	10.34	24	Pass
NVNT	ac20	5240	Ant1	10.22	0.11	10.33	24	Pass
NVNT	ac40	5190	Ant1	10	0.22	10.22	24	Pass
NVNT	ac40	5230	Ant1	10.22	0.22	10.44	24	Pass
NVNT	ac80	5210	Ant1	9.59	0.42	10.01	24	Pass

-26dB Bandwidth

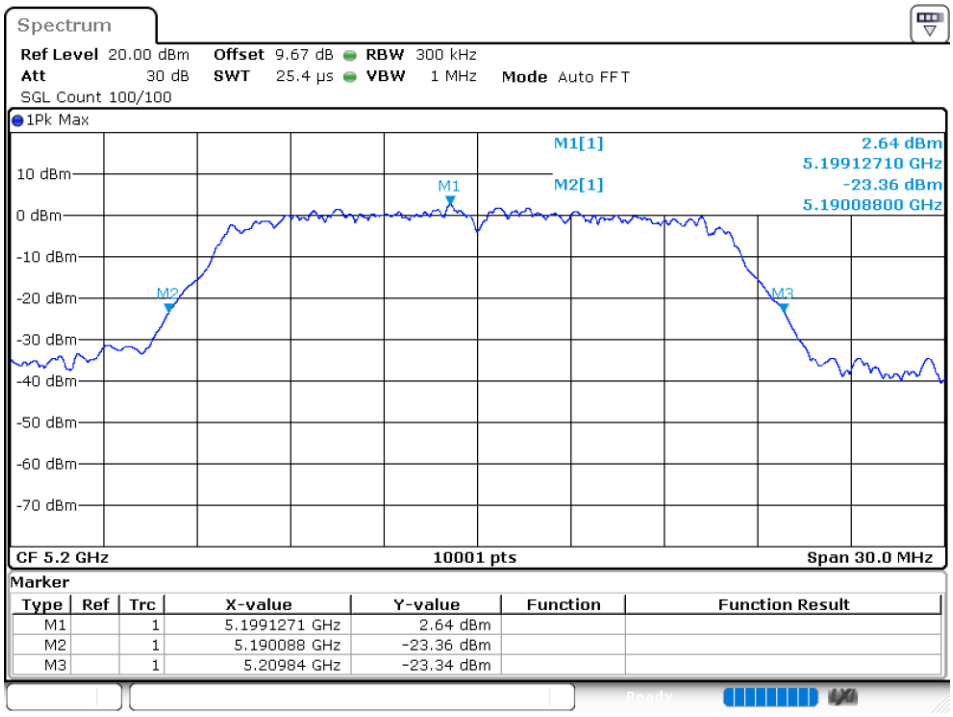
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.779	Pass
NVNT	a	5200	Ant1	19.752	Pass
NVNT	a	5240	Ant1	19.602	Pass
NVNT	n20	5180	Ant1	20.514	Pass
NVNT	n20	5200	Ant1	20.046	Pass
NVNT	n20	5240	Ant1	20.037	Pass
NVNT	n40	5190	Ant1	49.494	Pass
NVNT	n40	5230	Ant1	50.358	Pass
NVNT	ac20	5180	Ant1	20.115	Pass
NVNT	ac20	5200	Ant1	19.782	Pass
NVNT	ac20	5240	Ant1	19.974	Pass
NVNT	ac40	5190	Ant1	40.674	Pass
NVNT	ac40	5230	Ant1	40.734	Pass
NVNT	ac80	5210	Ant1	81.084	Pass

Test Graphs

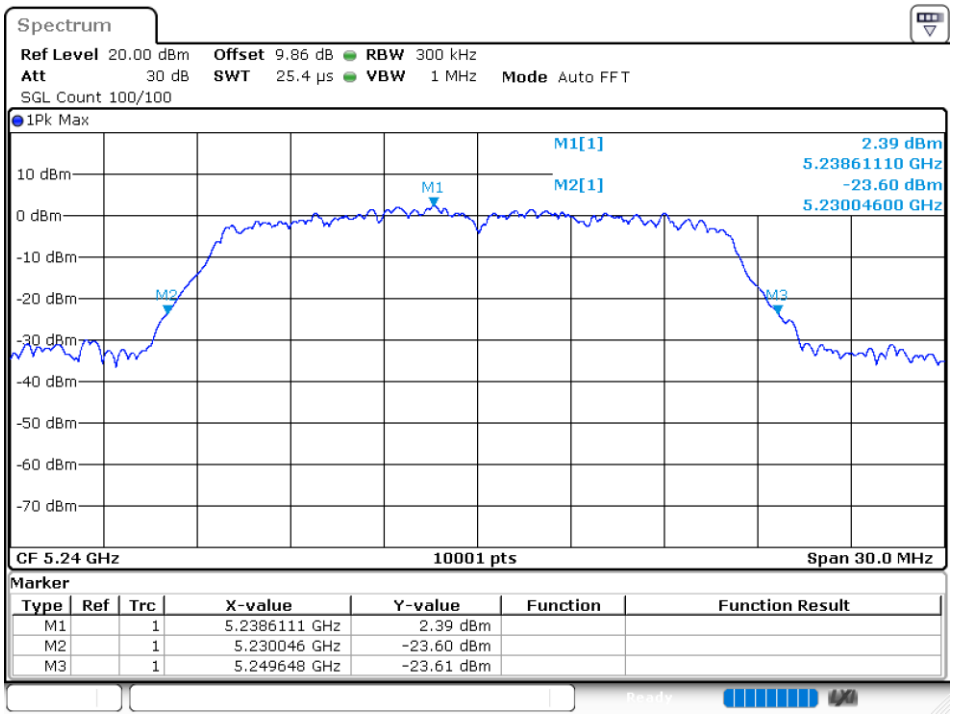
-26dB Bandwidth NVNT a 5180MHz Ant1



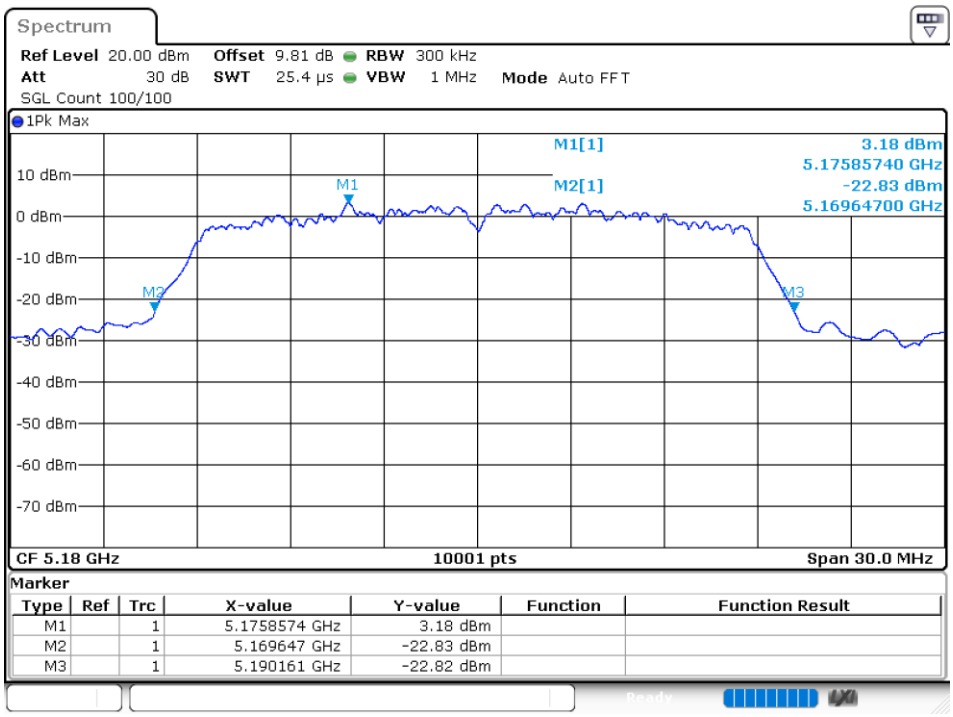
-26dB Bandwidth NVNT a 5200MHz Ant1



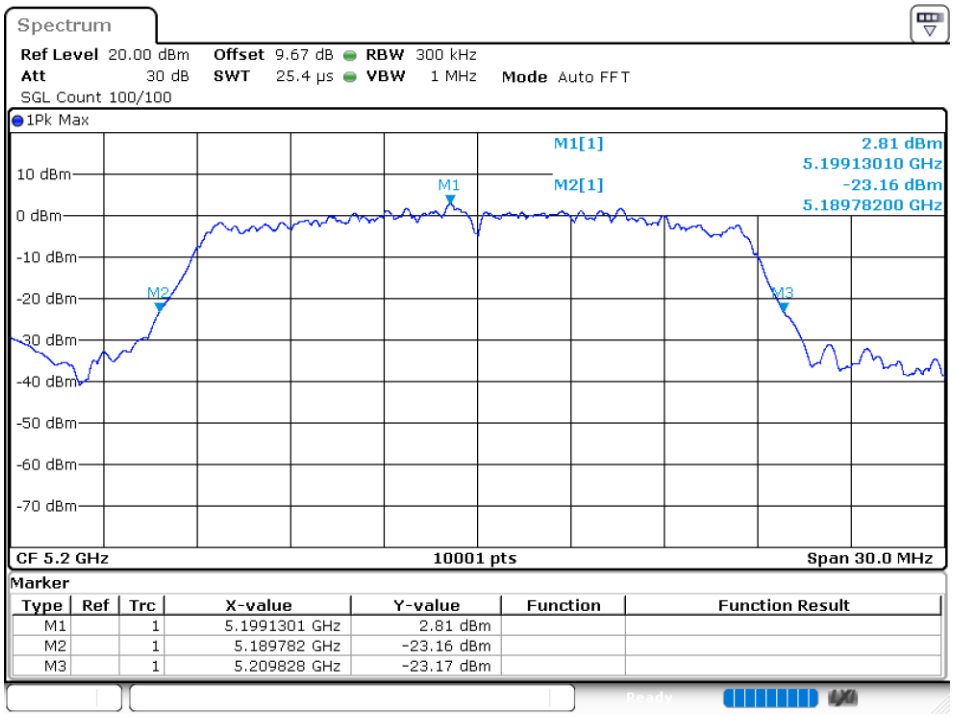
-26dB Bandwidth NVNT a 5240MHz Ant1



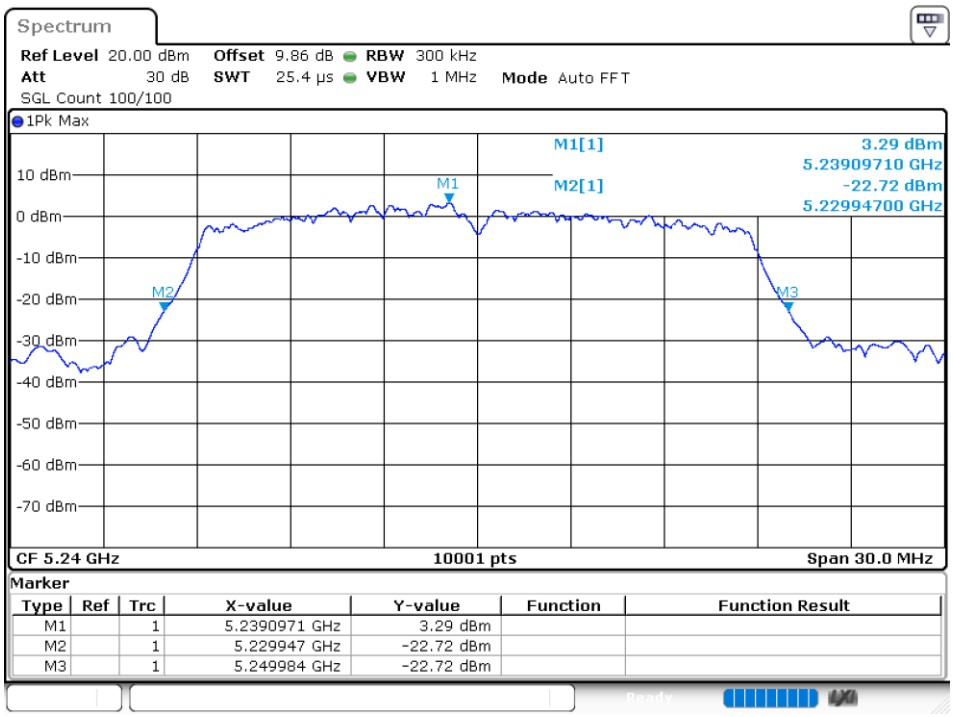
-26dB Bandwidth NVNT n20 5180MHz Ant1



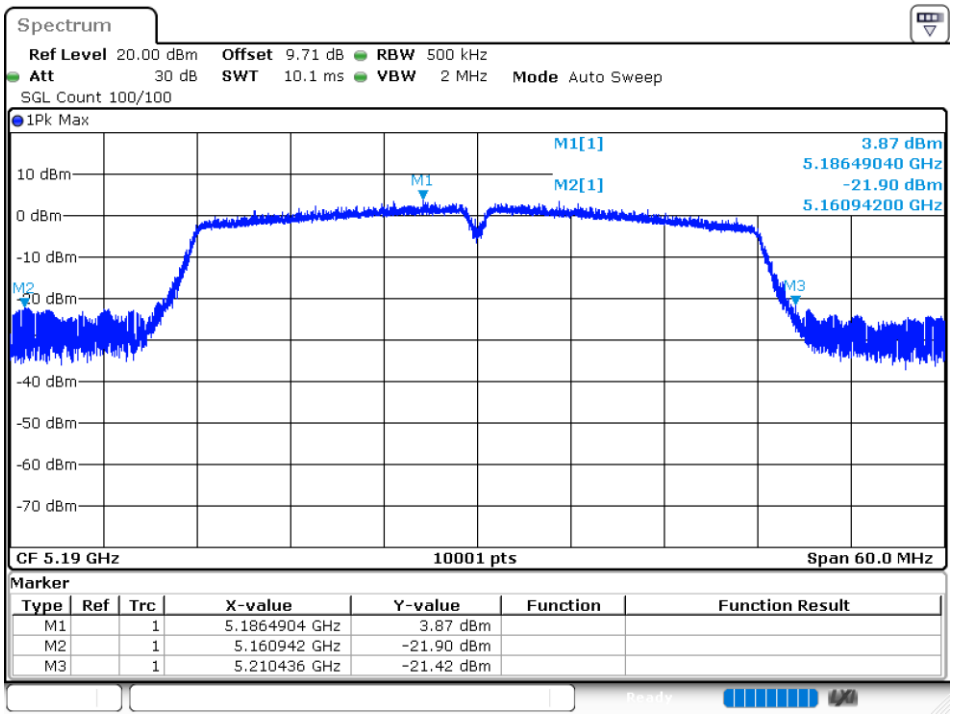
-26dB Bandwidth NVNT n20 5200MHz Ant1



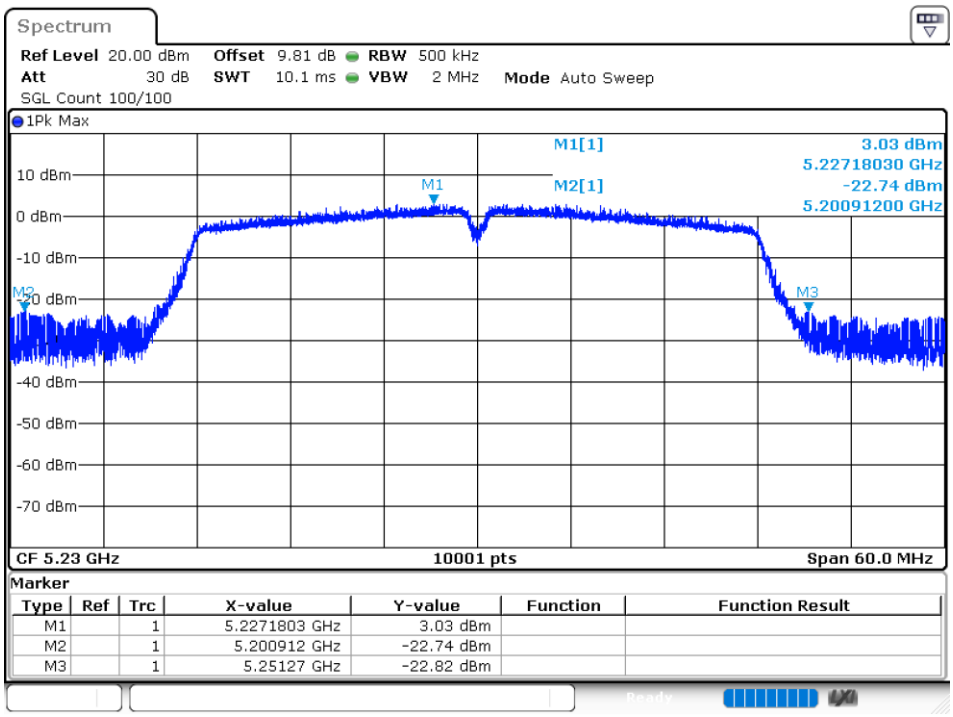
-26dB Bandwidth NVNT n20 5240MHz Ant1



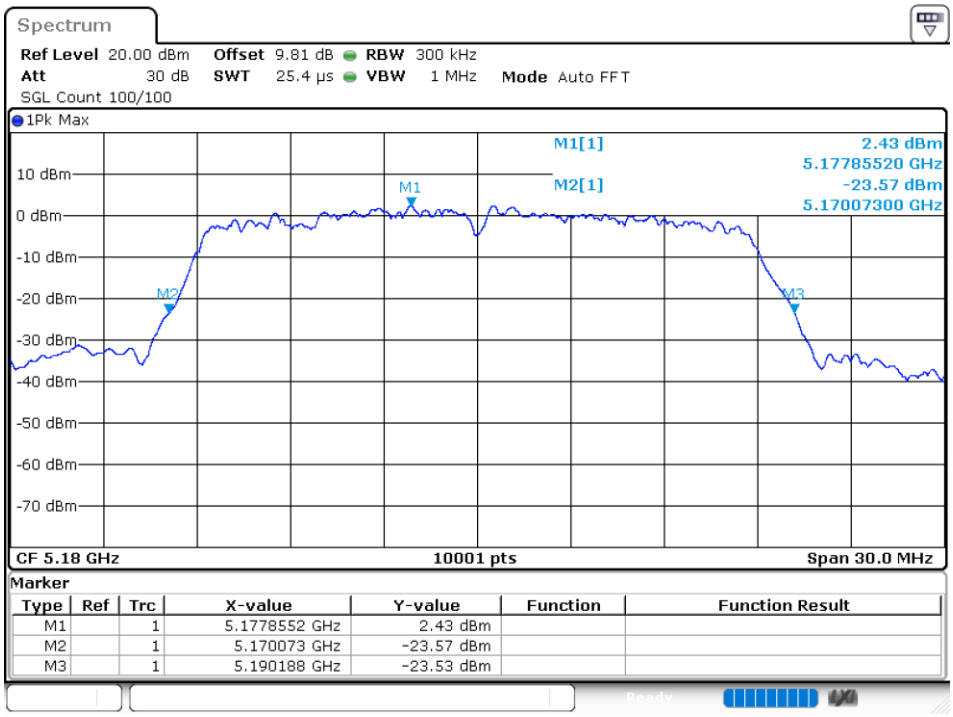
-26dB Bandwidth NVNT n40 5190MHz Ant1



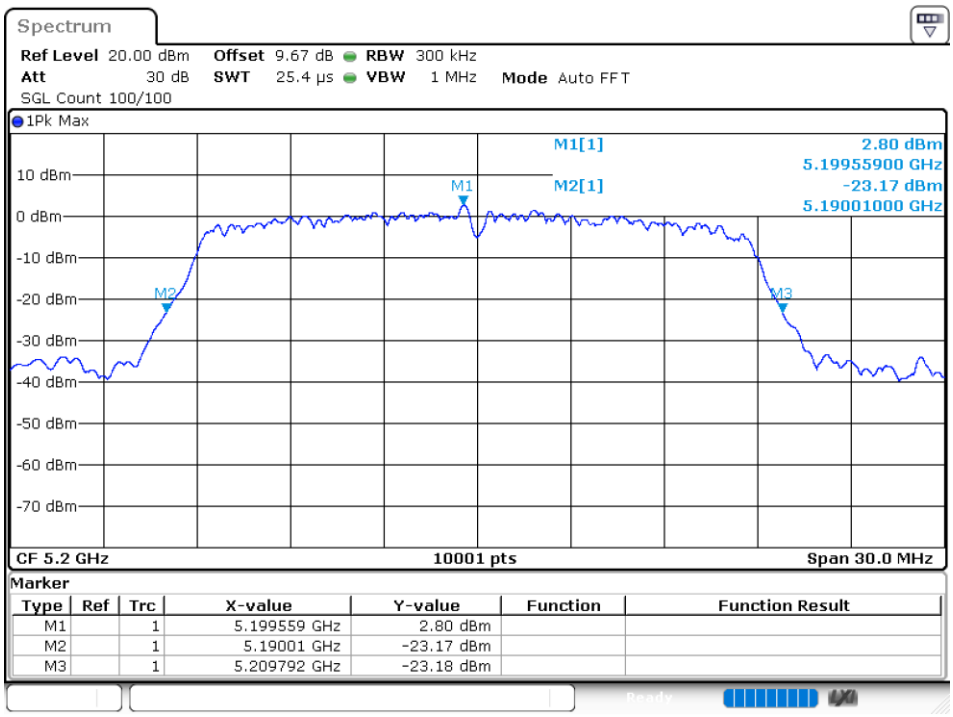
-26dB Bandwidth NVNT n40 5230MHz Ant1



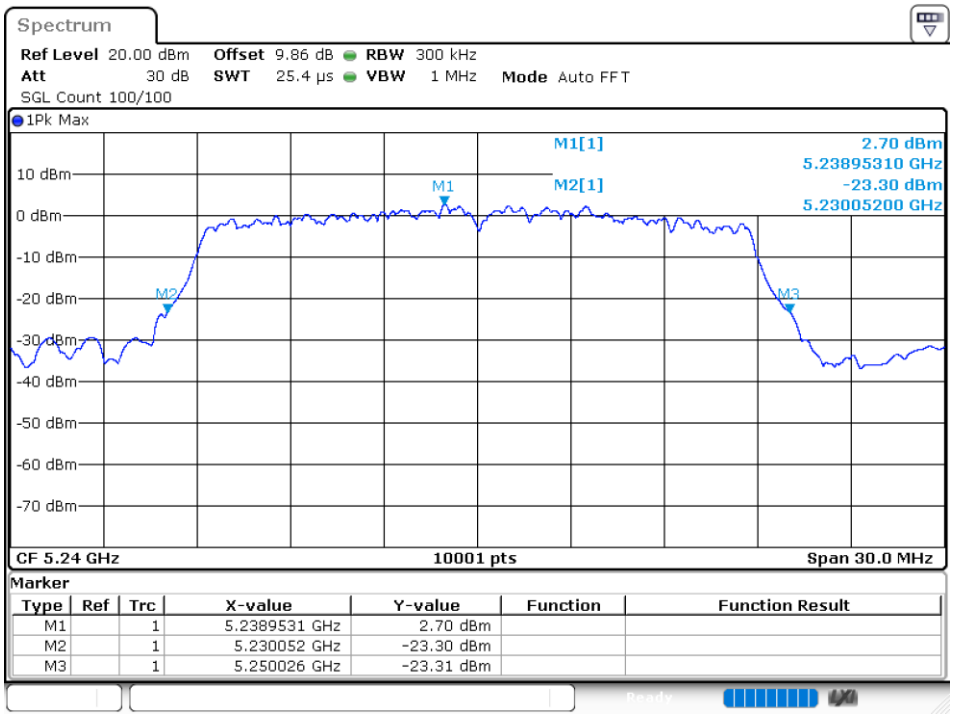
-26dB Bandwidth NVNT ac20 5180MHz Ant1



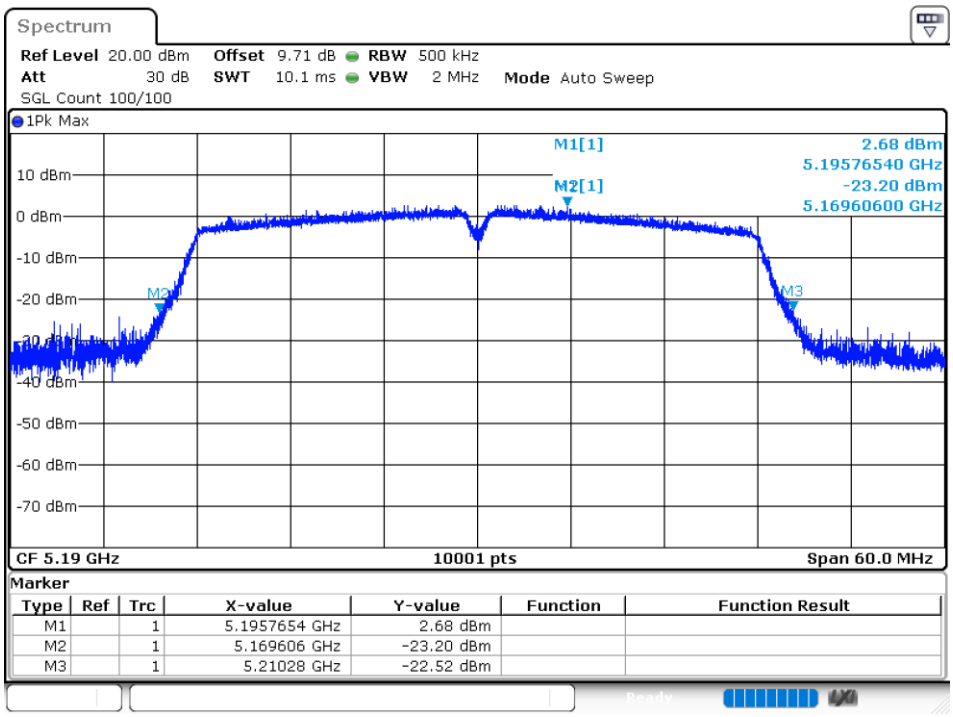
-26dB Bandwidth NVNT ac20 5200MHz Ant1



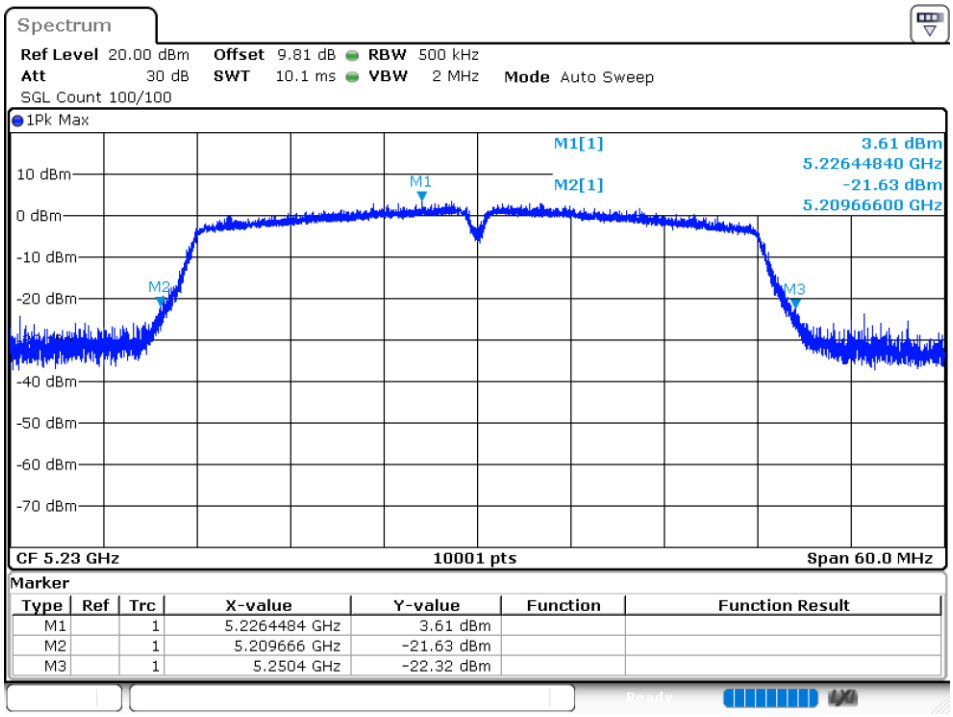
-26dB Bandwidth NVNT ac20 5240MHz Ant1



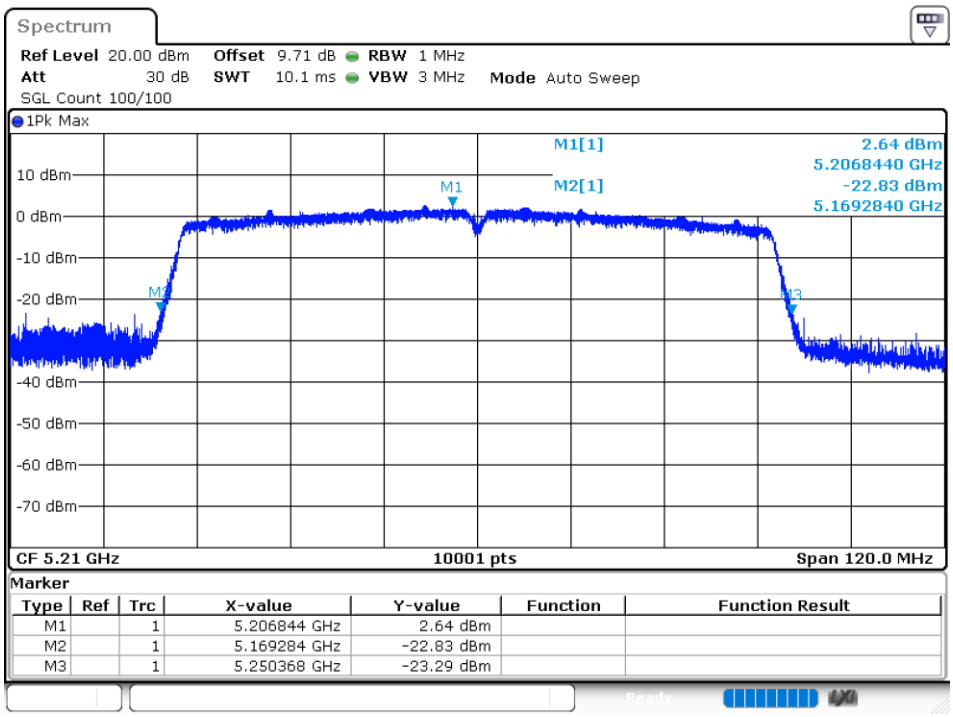
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

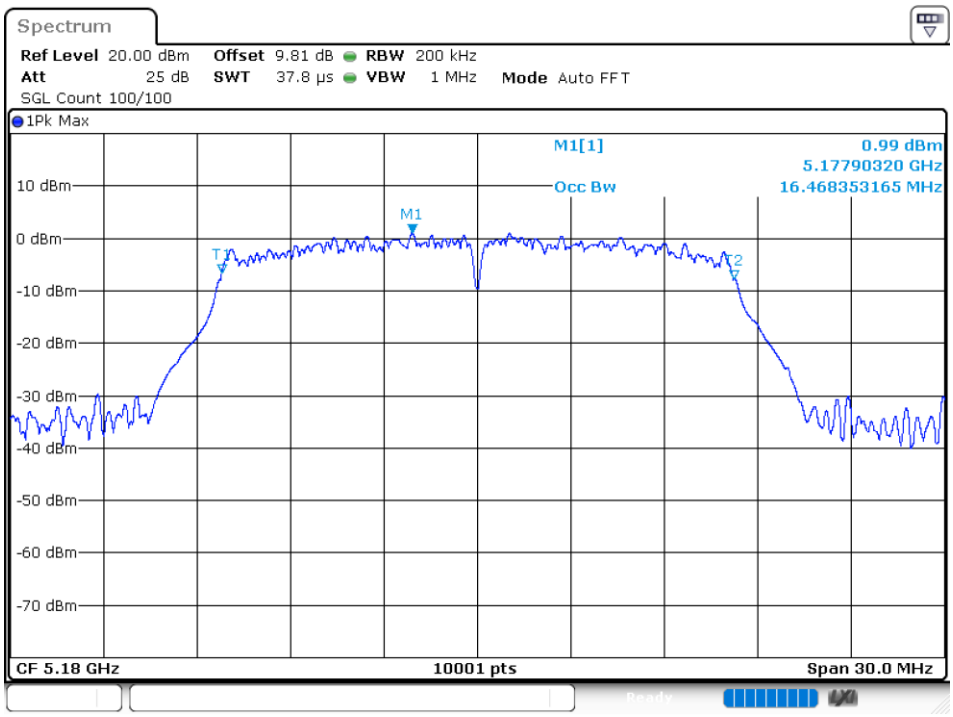


Occupied Channel Bandwidth

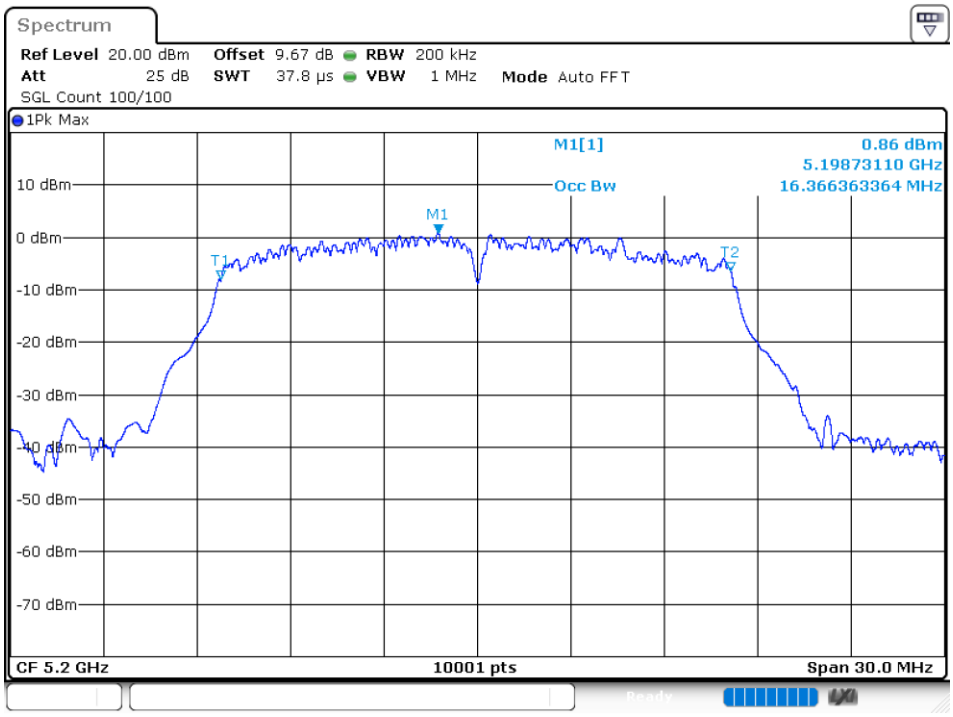
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.468
NVNT	a	5200	Ant1	16.366
NVNT	a	5240	Ant1	16.381
NVNT	n20	5180	Ant1	17.611
NVNT	n20	5200	Ant1	17.515
NVNT	n20	5240	Ant1	17.536
NVNT	n40	5190	Ant1	36.08
NVNT	n40	5230	Ant1	36.044
NVNT	ac20	5180	Ant1	17.53
NVNT	ac20	5200	Ant1	17.518
NVNT	ac20	5240	Ant1	17.578
NVNT	ac40	5190	Ant1	35.996
NVNT	ac40	5230	Ant1	35.972
NVNT	ac80	5210	Ant1	75.196

Test Graphs

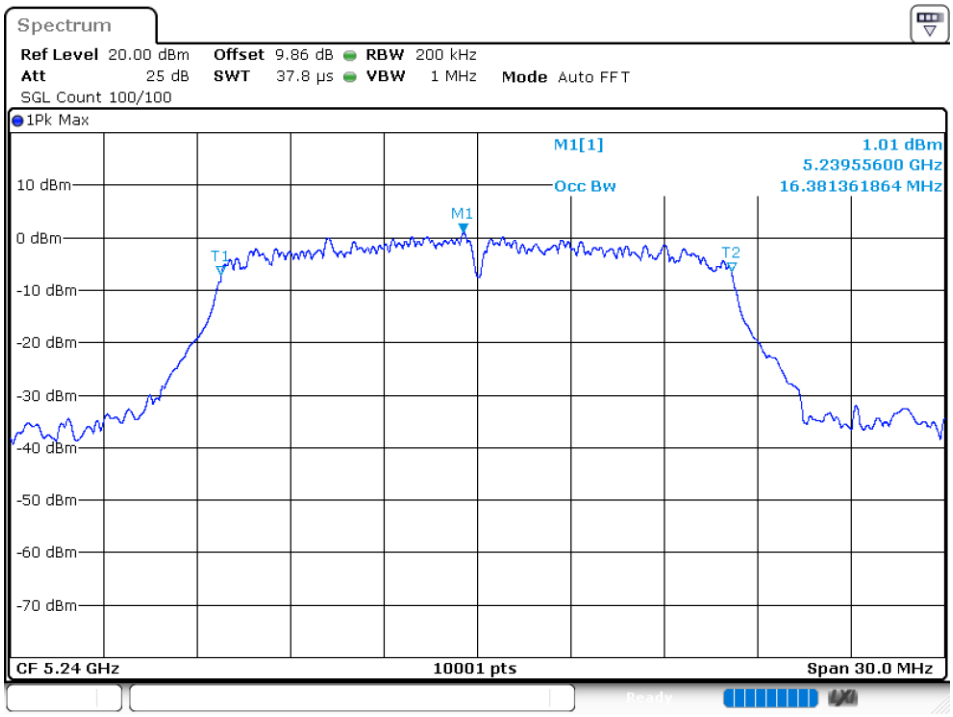
OBW NVNT a 5180MHz Ant1



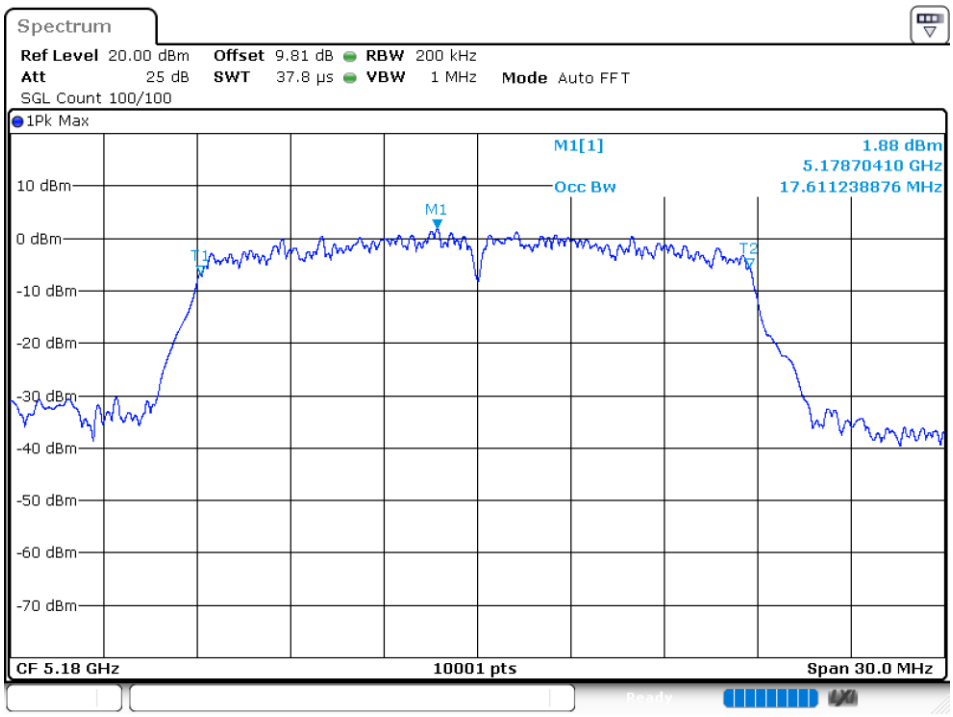
OBW NVNT a 5200MHz Ant1



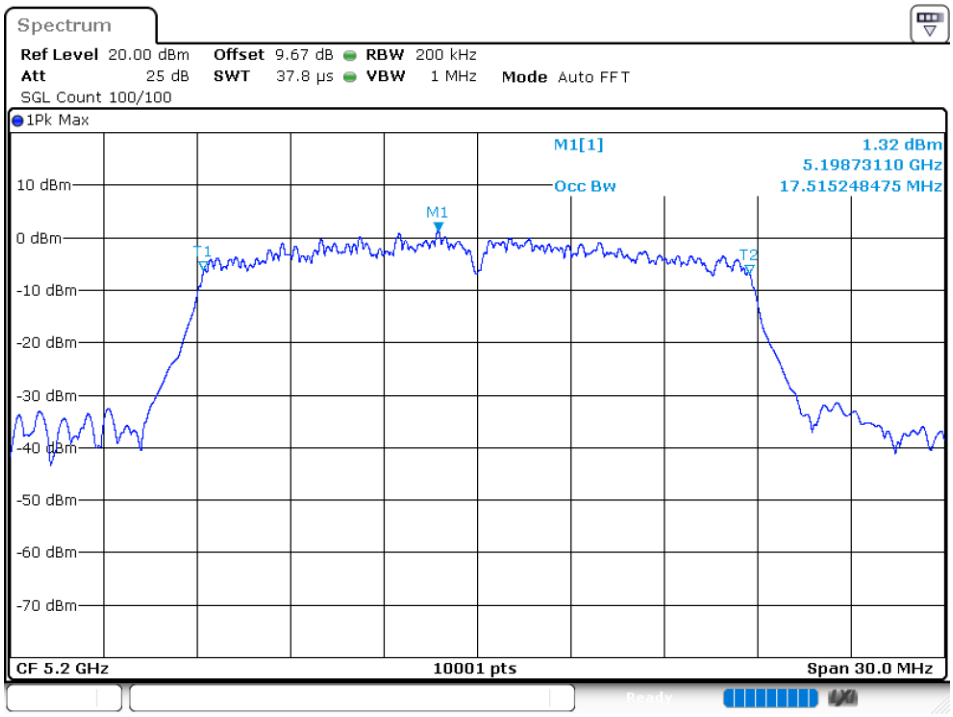
OBW NVNT a 5240MHz Ant1



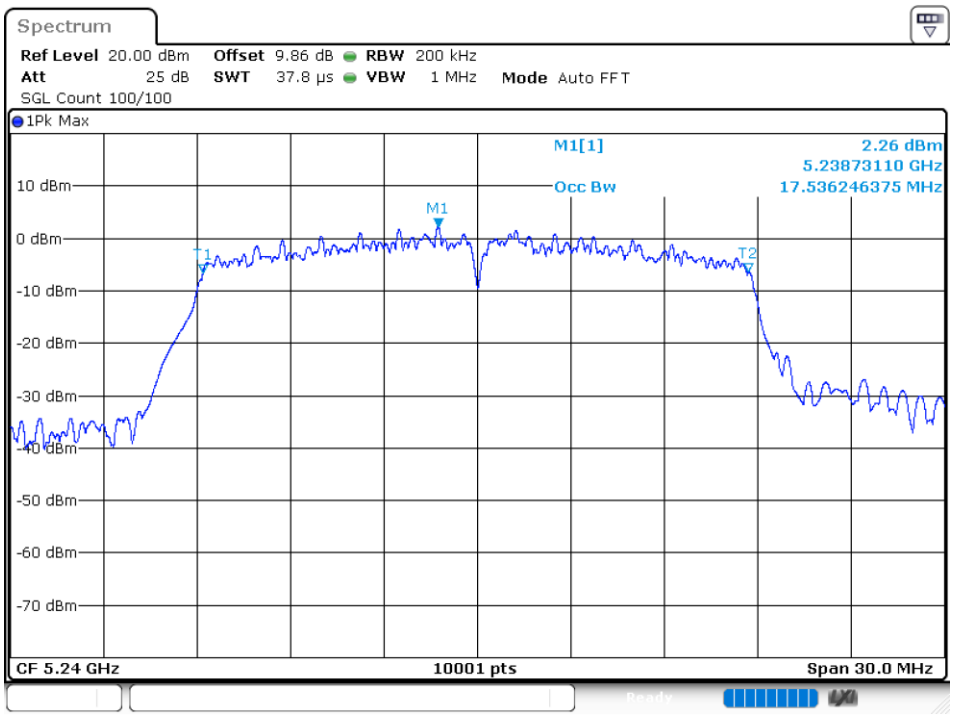
OBW NVNT n20 5180MHz Ant1



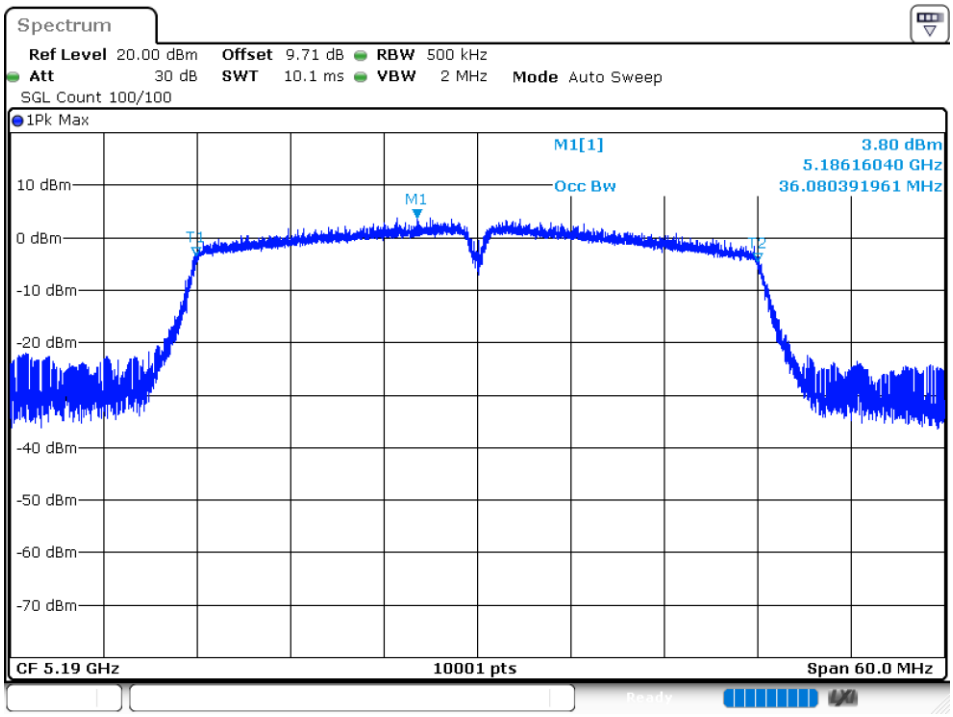
OBW NVNT n20 5200MHz Ant1



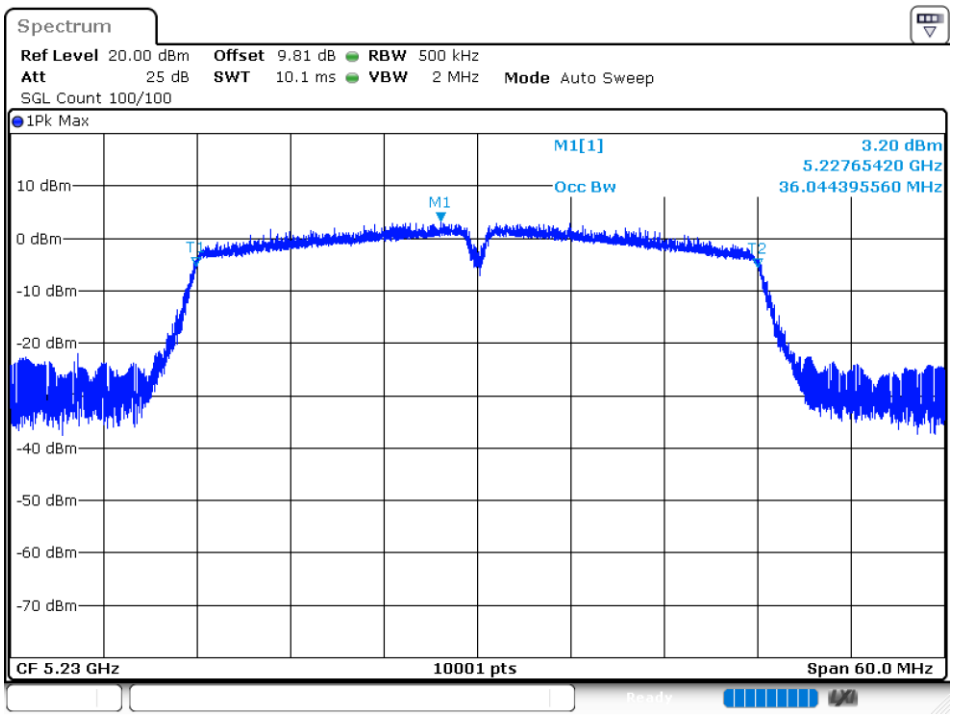
OBW NVNT n20 5240MHz Ant1



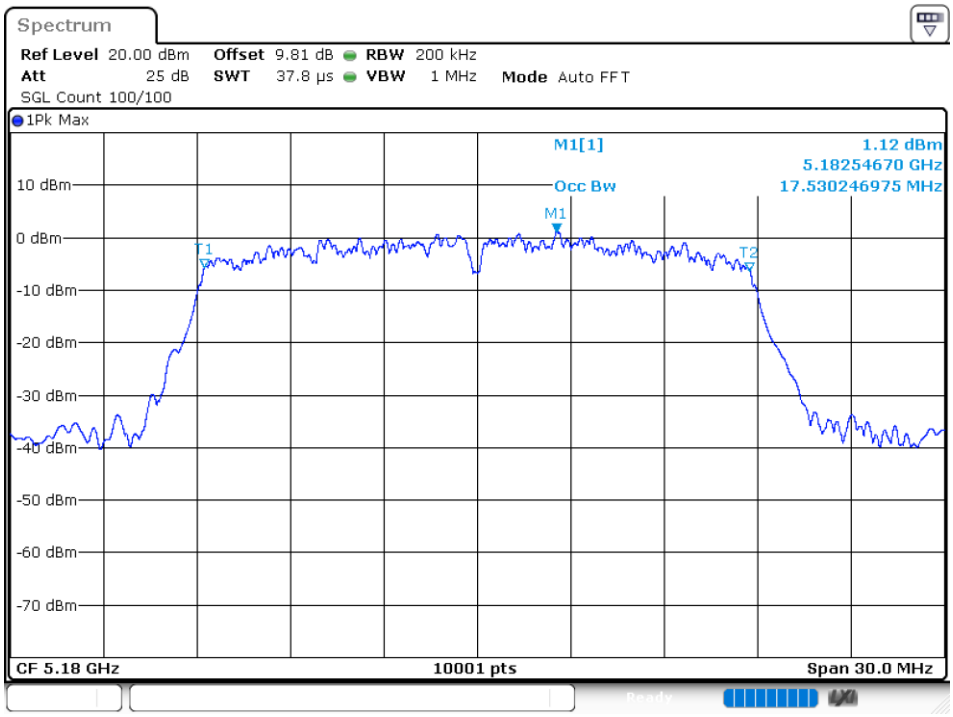
OBW NVNT n40 5190MHz Ant1



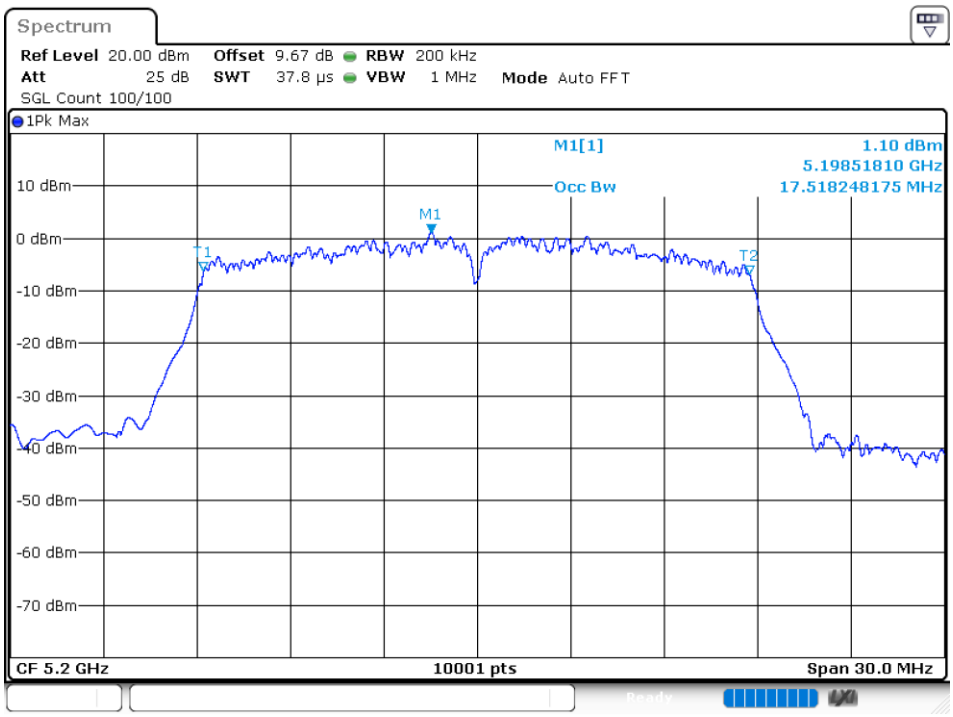
OBW NVNT n40 5230MHz Ant1



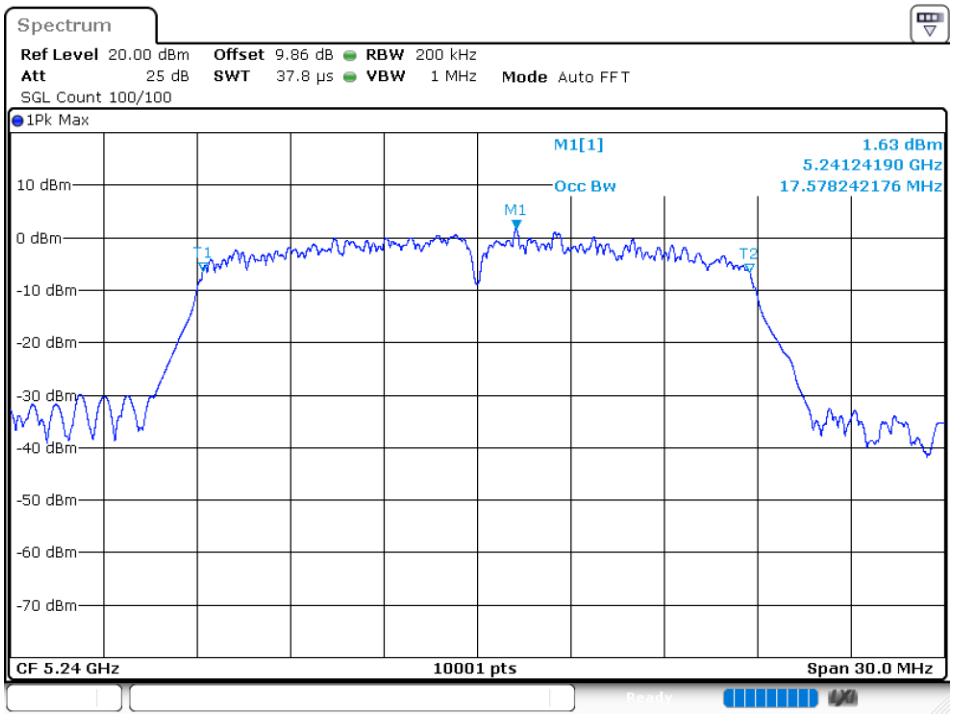
OBW NVNT ac20 5180MHz Ant1



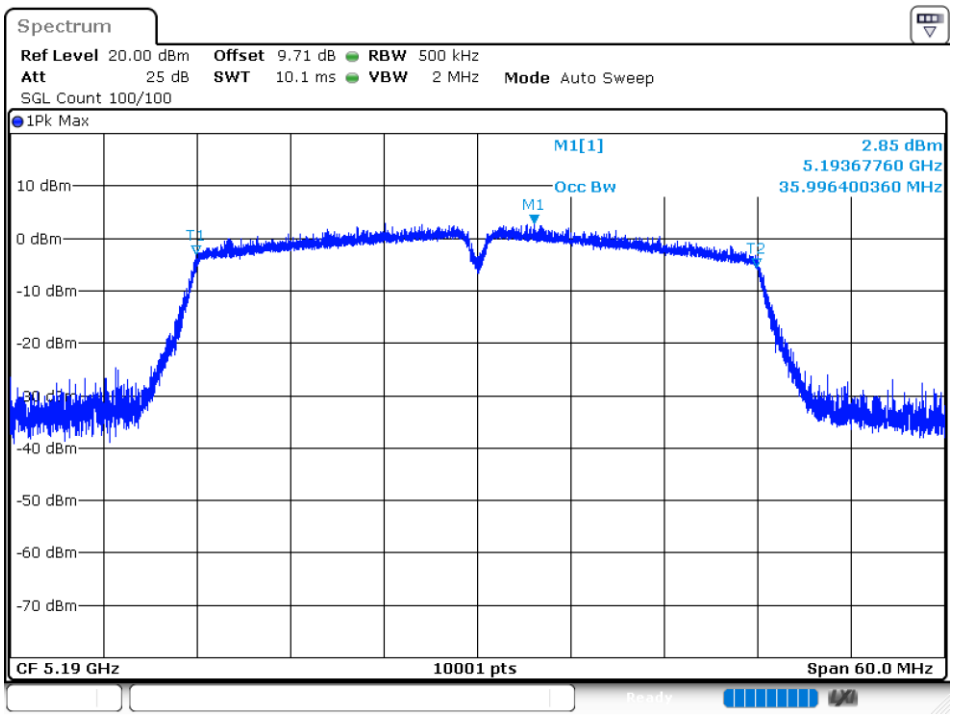
OBW NVNT ac20 5200MHz Ant1



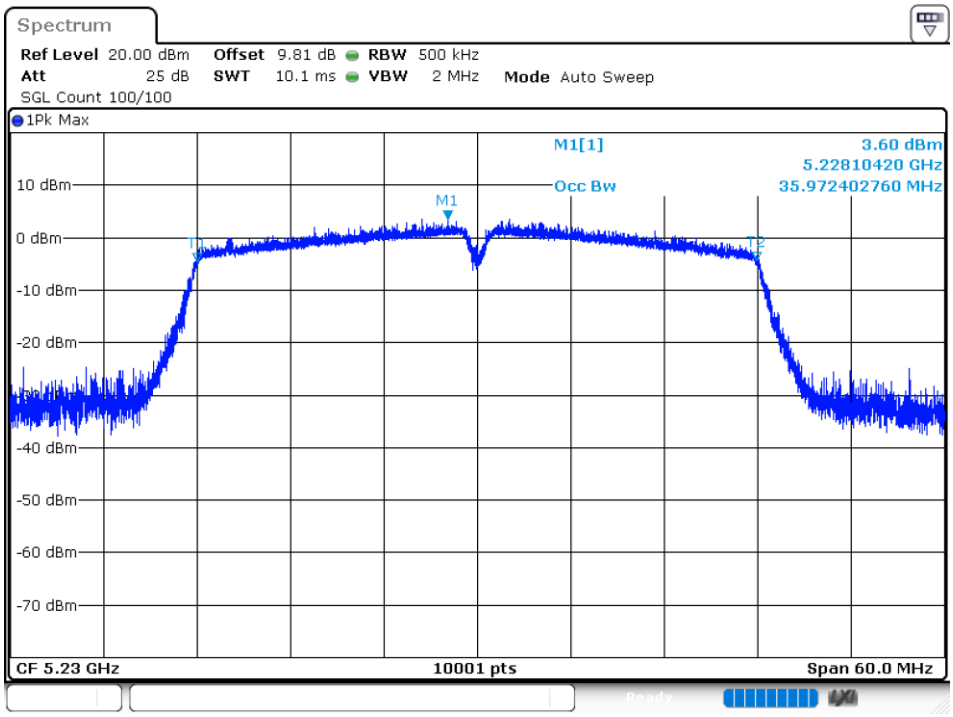
OBW NVNT ac20 5240MHz Ant1



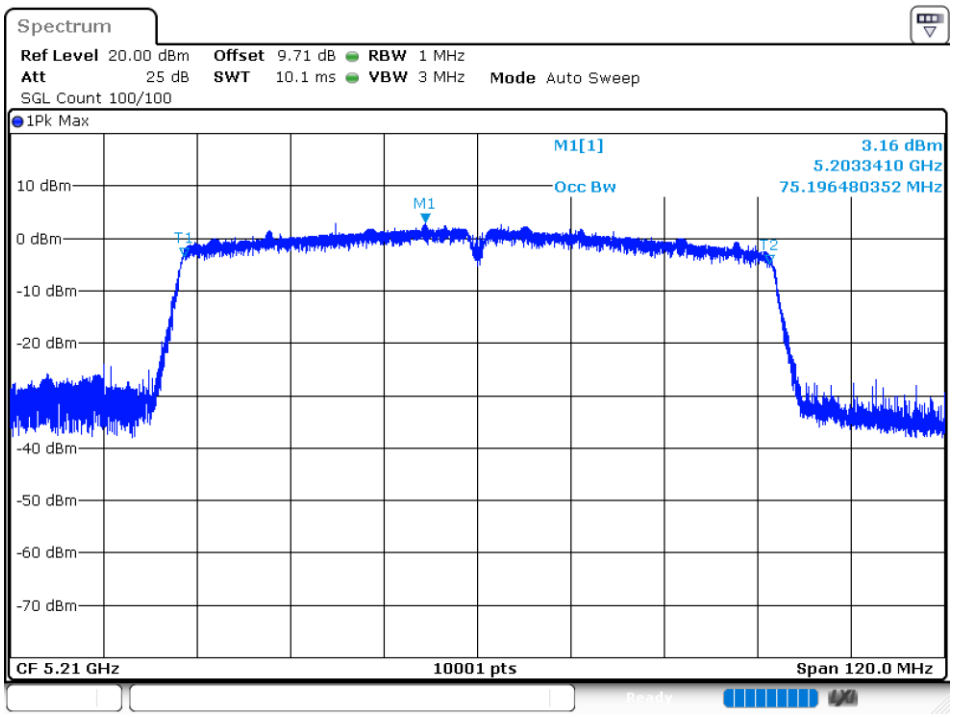
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



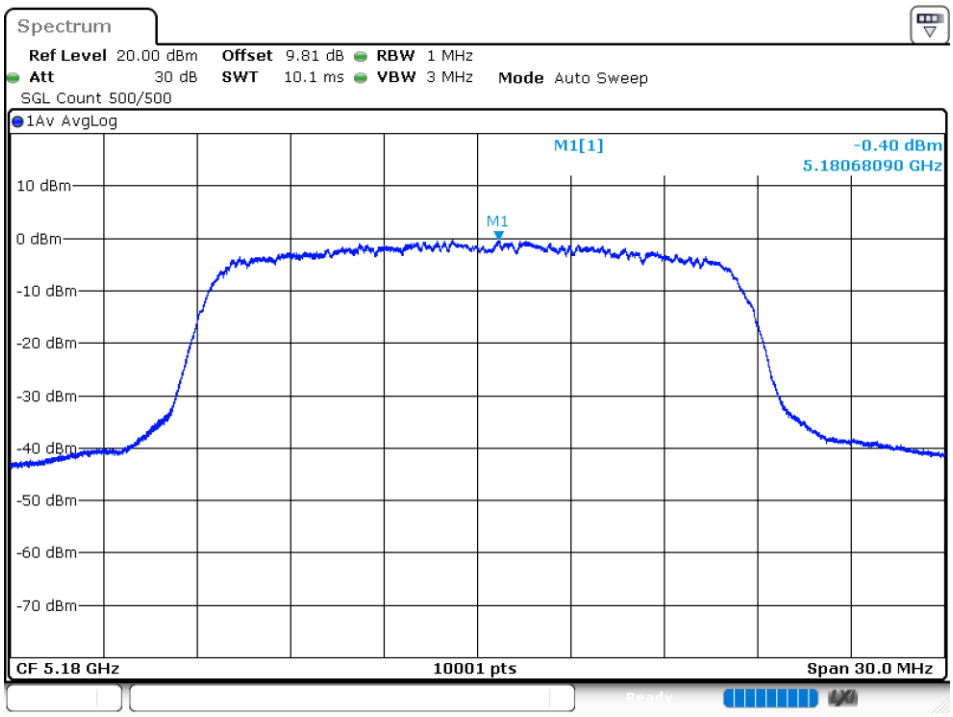
OBW NVNT ac80 5210MHz Ant1



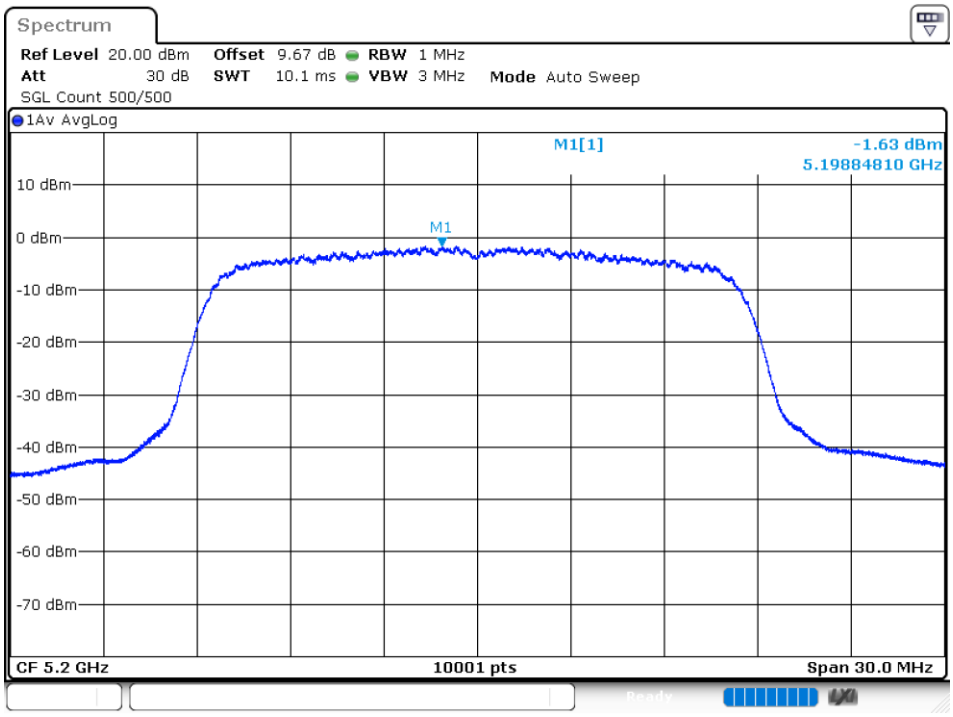
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.4	0.11	-0.29	11	Pass
NVNT	a	5200	Ant1	-1.63	0.11	-1.52	11	Pass
NVNT	a	5240	Ant1	-1.41	0.11	-1.3	11	Pass
NVNT	n20	5180	Ant1	-0.96	0.11	-0.85	11	Pass
NVNT	n20	5200	Ant1	-1.89	0.11	-1.78	11	Pass
NVNT	n20	5240	Ant1	-1.34	0.11	-1.23	11	Pass
NVNT	n40	5190	Ant1	-5.17	0.22	-4.95	11	Pass
NVNT	n40	5230	Ant1	-3.17	0.22	-2.95	11	Pass
NVNT	ac20	5180	Ant1	-1.3	0.11	-1.19	11	Pass
NVNT	ac20	5200	Ant1	-1.53	0.11	-1.42	11	Pass
NVNT	ac20	5240	Ant1	-0.15	0.11	-0.04	11	Pass
NVNT	ac40	5190	Ant1	-5.73	0.22	-5.51	11	Pass
NVNT	ac40	5230	Ant1	-5.13	0.22	-4.91	11	Pass
NVNT	ac80	5210	Ant1	-10.82	0.42	-10.4	11	Pass

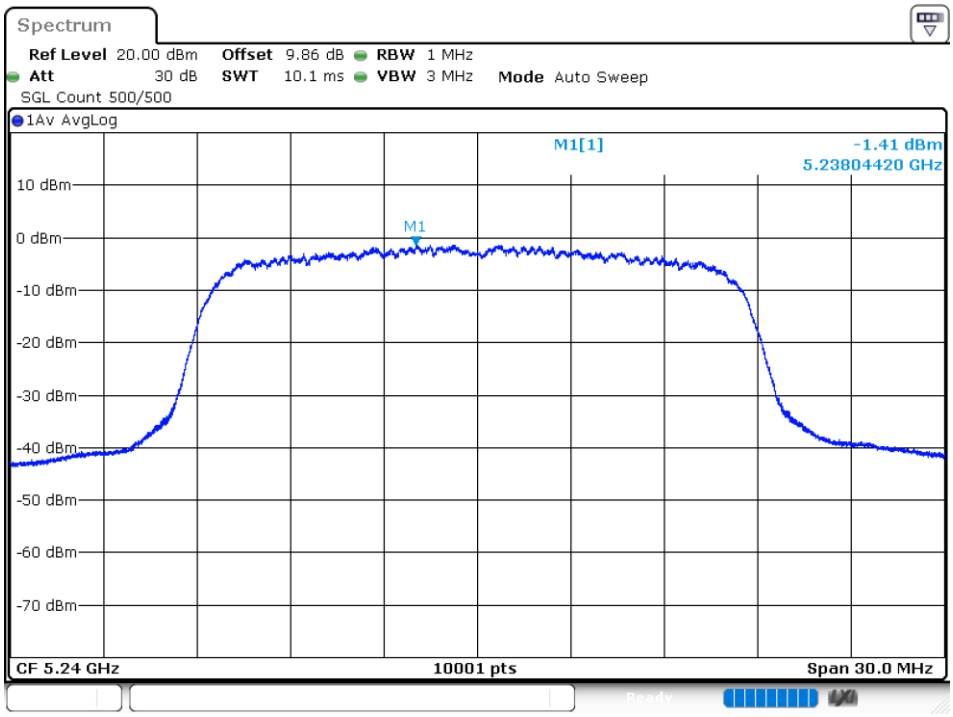
Test Graphs
PSD NVNT a 5180MHz Ant1



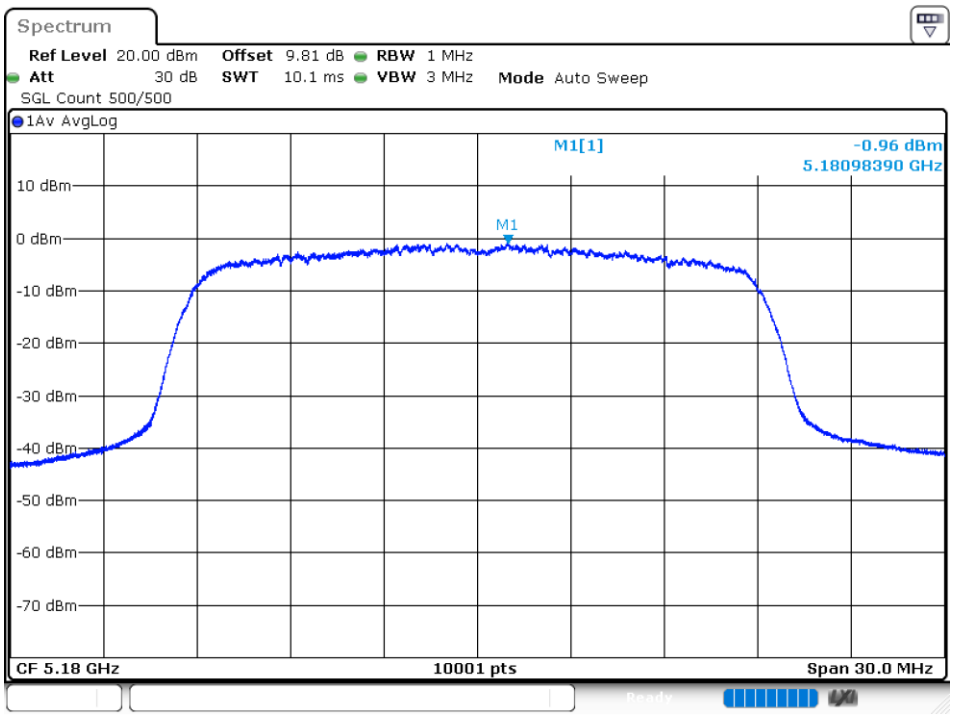
PSD NVNT a 5200MHz Ant1



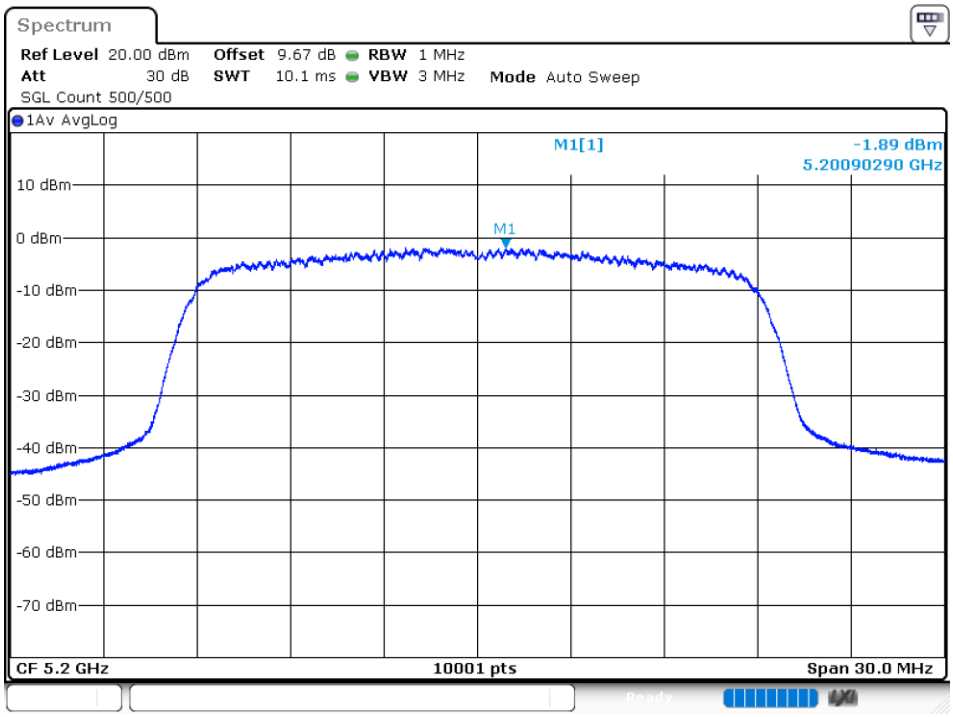
PSD NVNT a 5240MHz Ant1



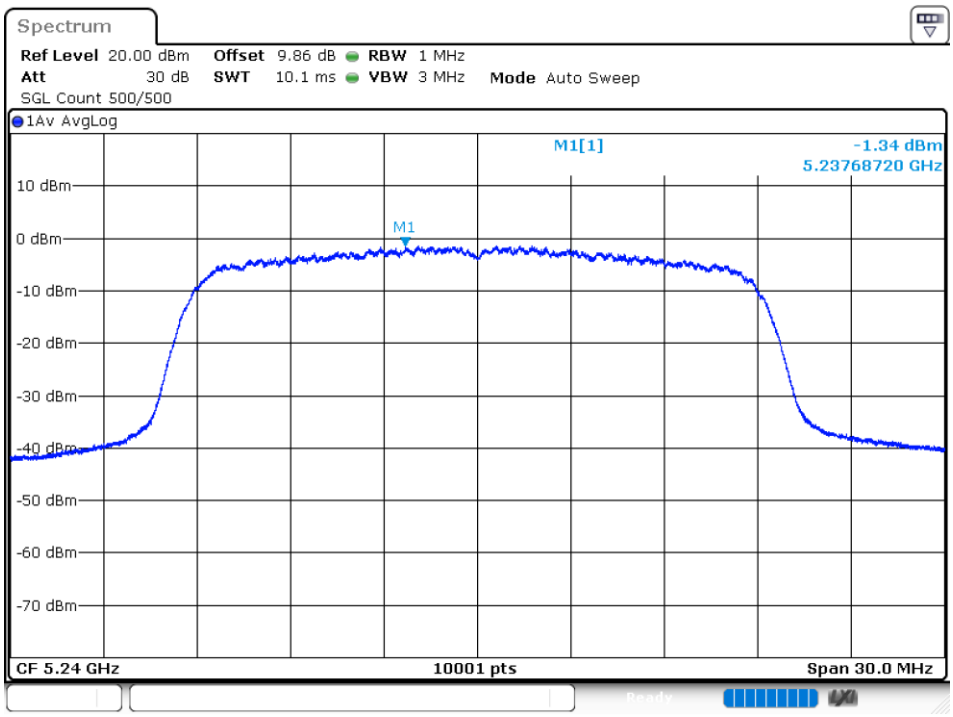
PSD NVNT n20 5180MHz Ant1



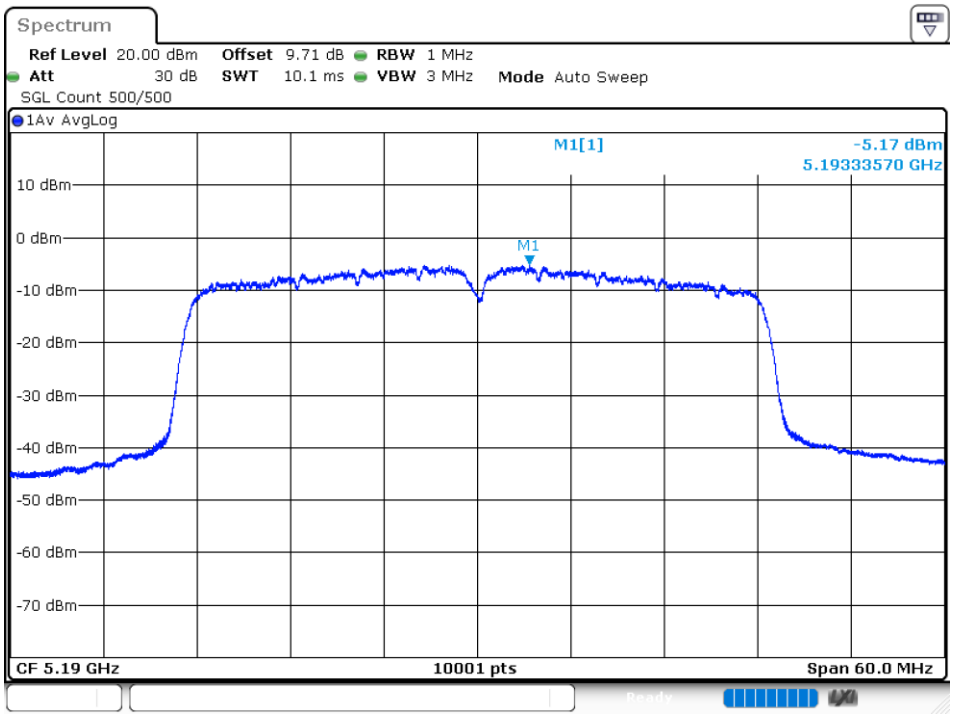
PSD NVNT n20 5200MHz Ant1



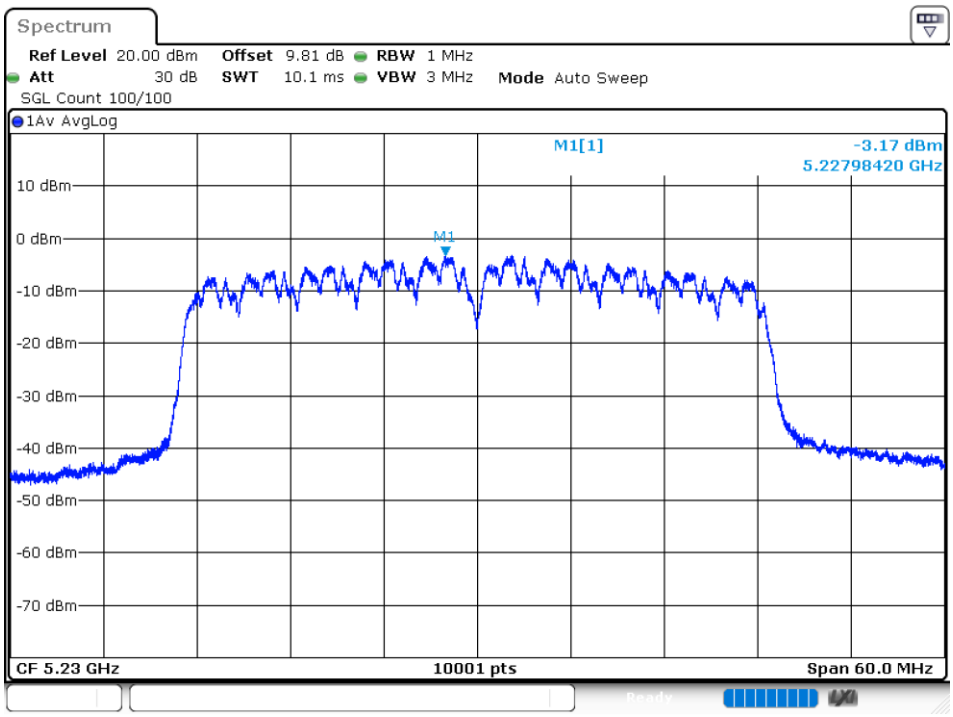
PSD NVNT n20 5240MHz Ant1



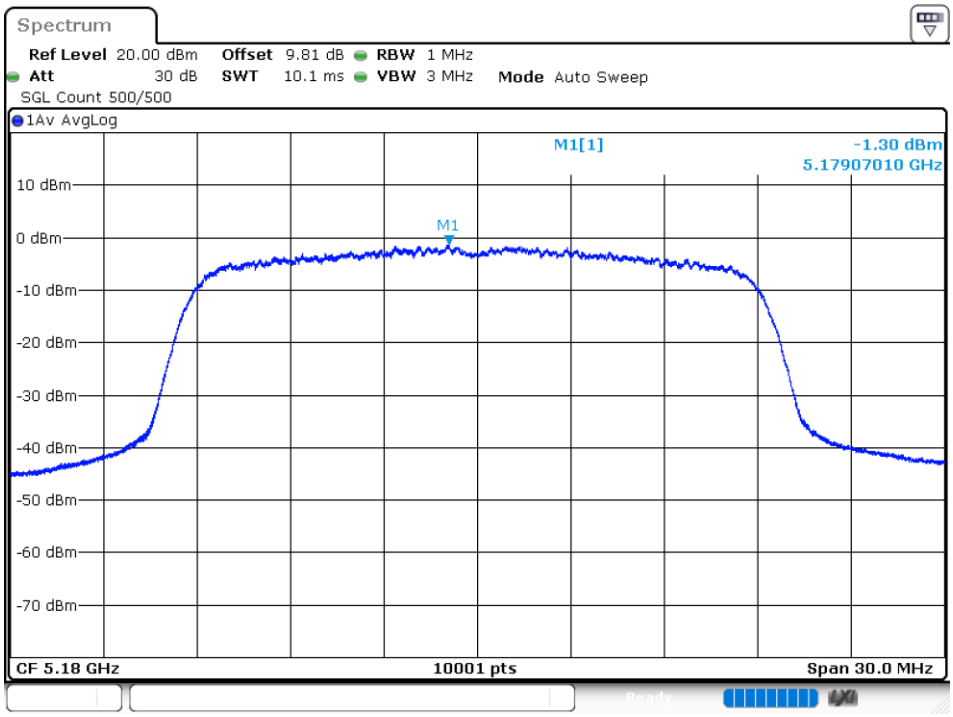
PSD NVNT n40 5190MHz Ant1



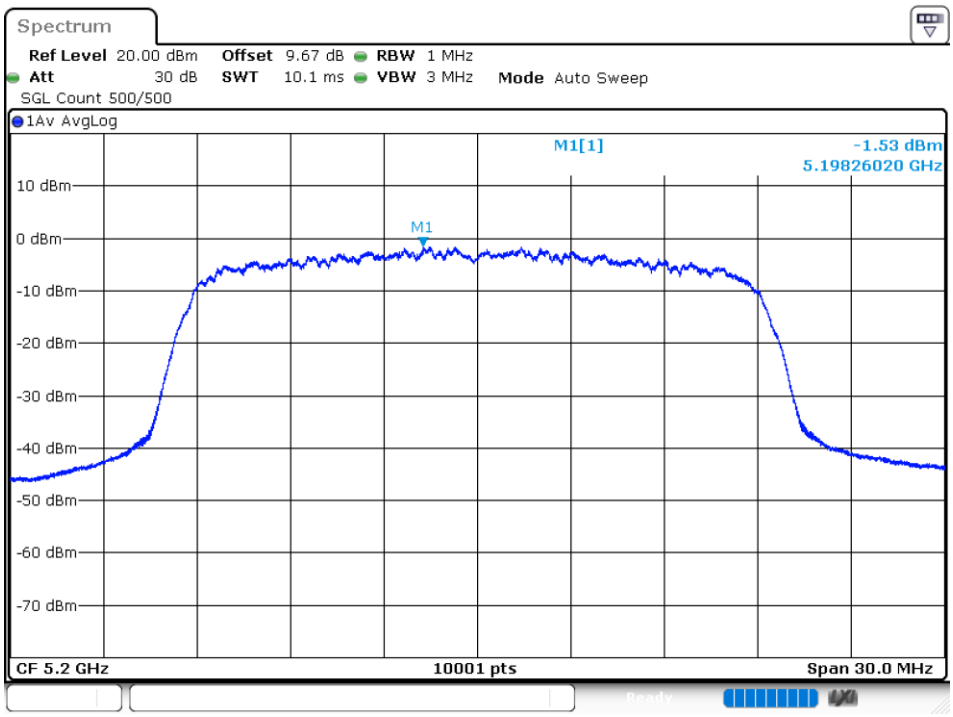
PSD NVNT n40 5230MHz Ant1



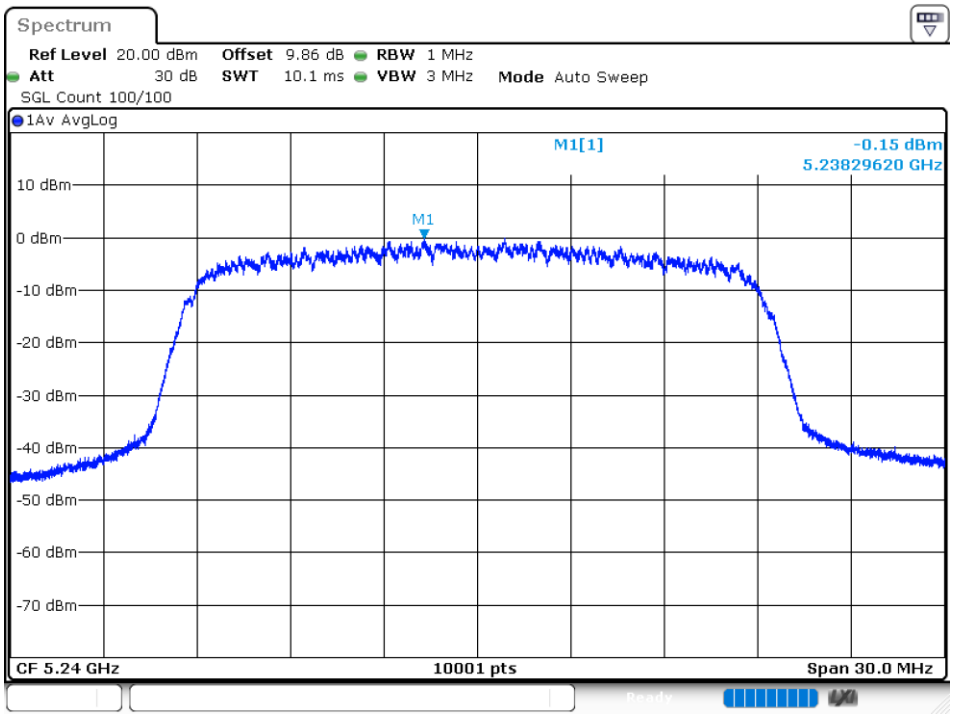
PSD NVNT ac20 5180MHz Ant1



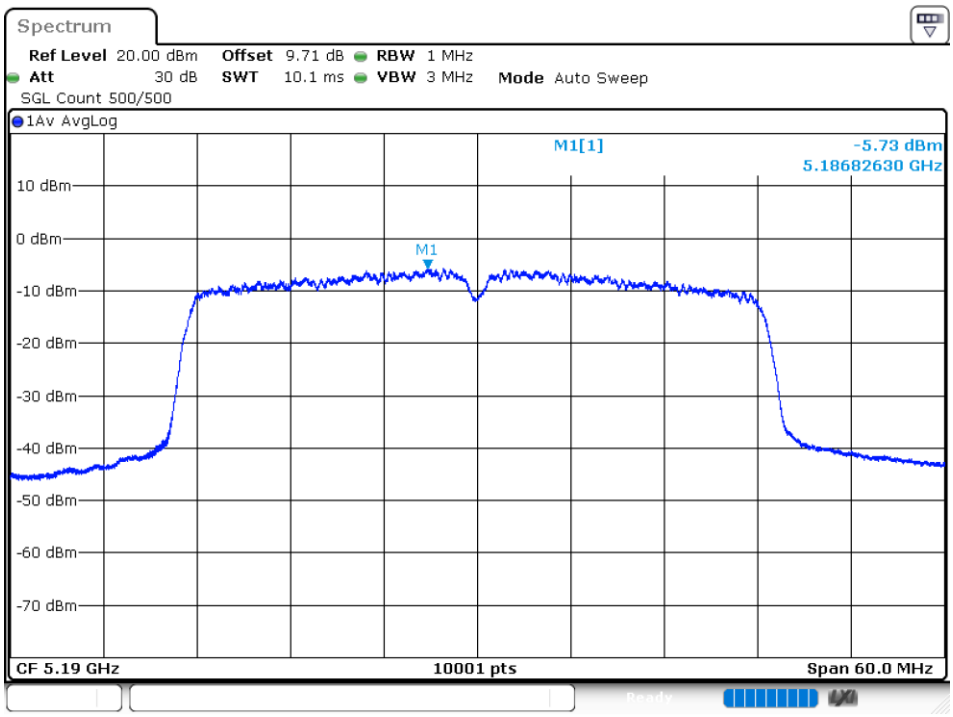
PSD NVNT ac20 5200MHz Ant1



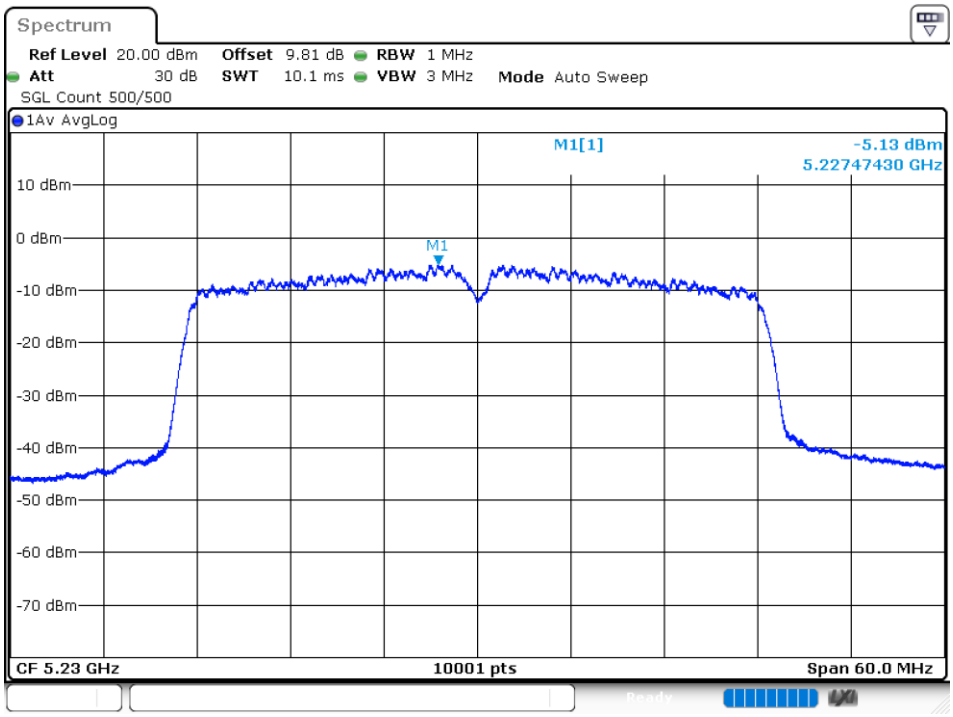
PSD NVNT ac20 5240MHz Ant1



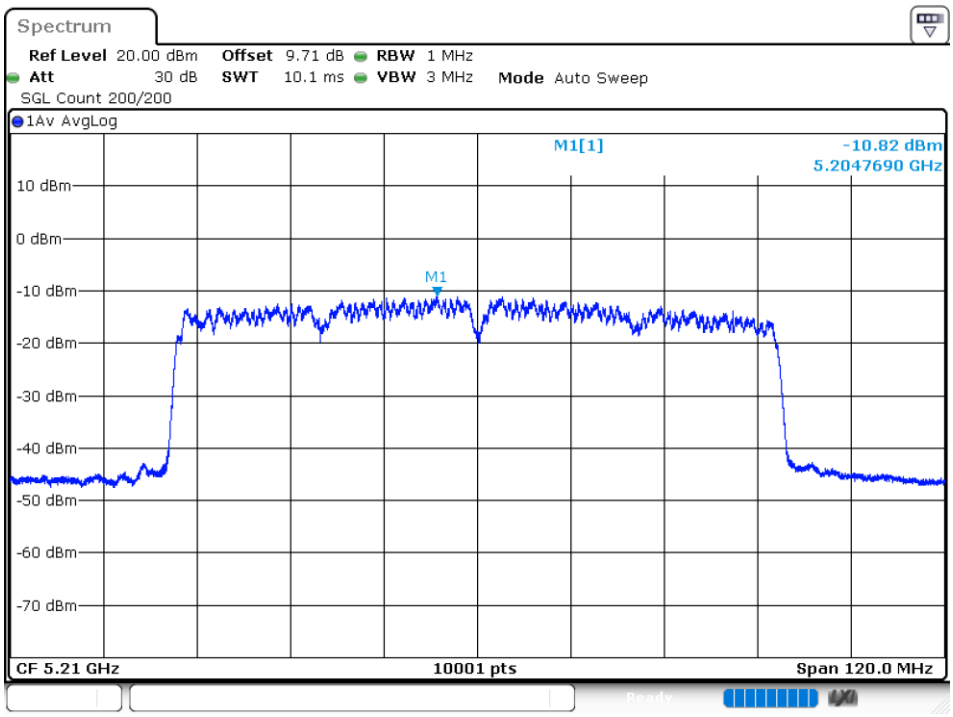
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1

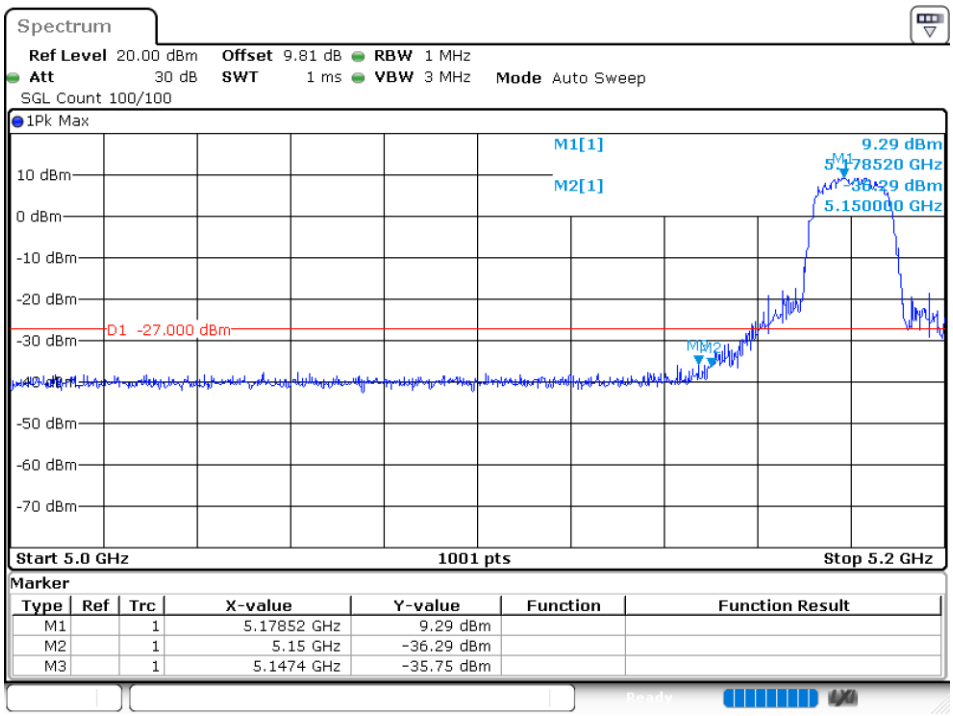


Band Edge

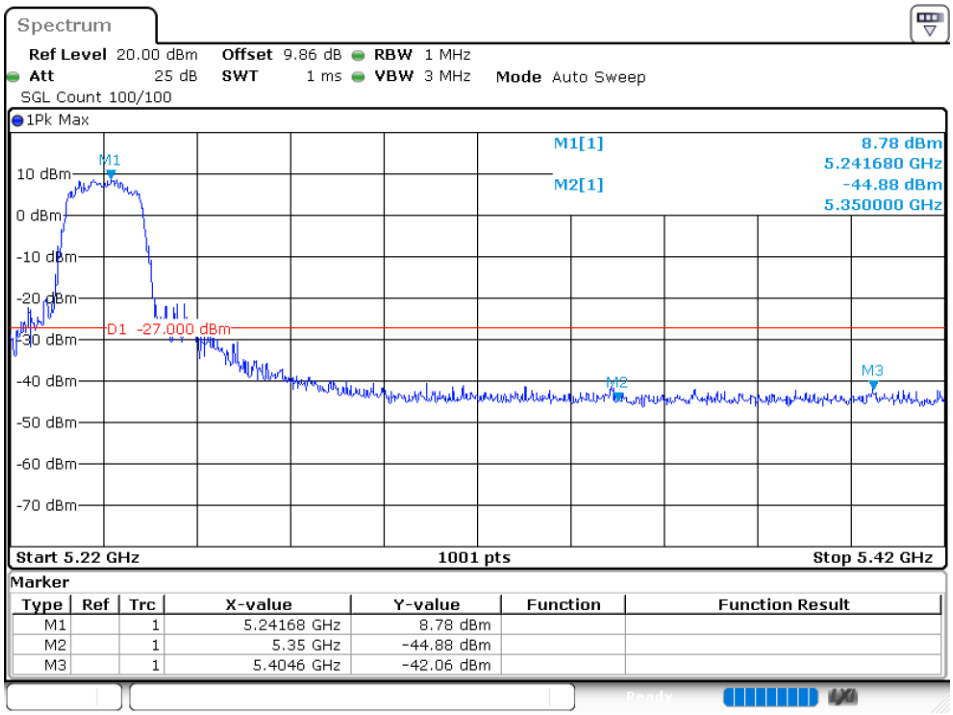
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-35.75	-27	Pass
NVNT	a	5240	Ant1	-42.05	-27	Pass
NVNT	n20	5180	Ant1	-33.18	-27	Pass
NVNT	n20	5240	Ant1	-41.4	-27	Pass
NVNT	n40	5190	Ant1	-28.66	-27	Pass
NVNT	n40	5230	Ant1	-37.56	-27	Pass
NVNT	ac20	5180	Ant1	-35.44	-27	Pass
NVNT	ac20	5240	Ant1	-40.65	-27	Pass
NVNT	ac40	5190	Ant1	-29.78	-27	Pass
NVNT	ac40	5230	Ant1	-41.31	-27	Pass
NVNT	ac80	5210	Ant1	-44.28	-27	Pass

Test Graphs

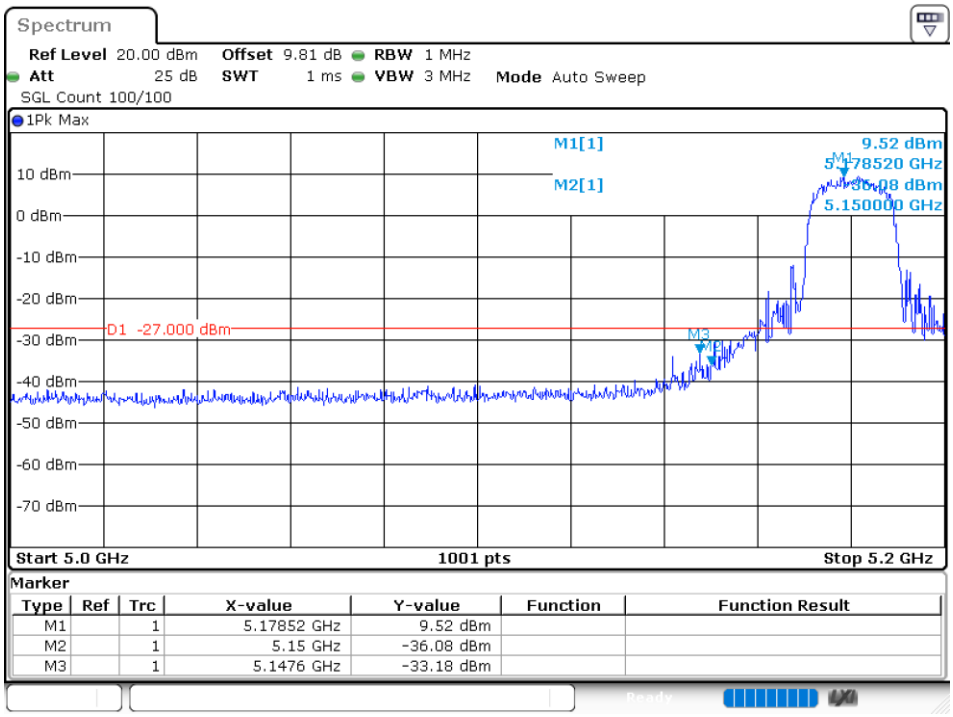
Band Edge NVNT a 5180MHz Low Ant1



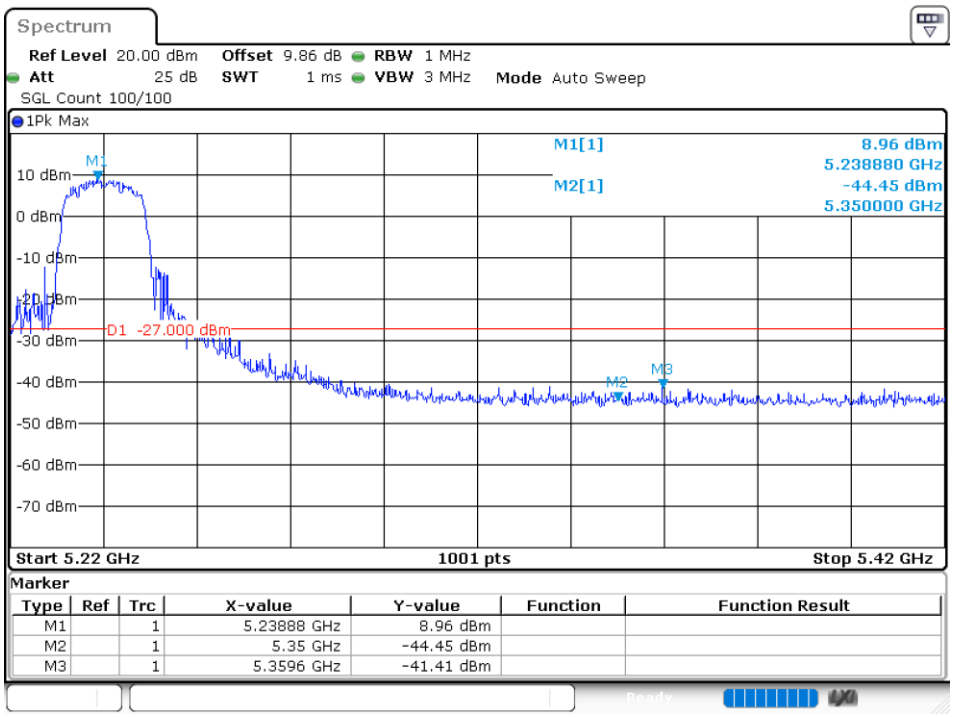
Band Edge NVNT a 5240MHz High Ant1



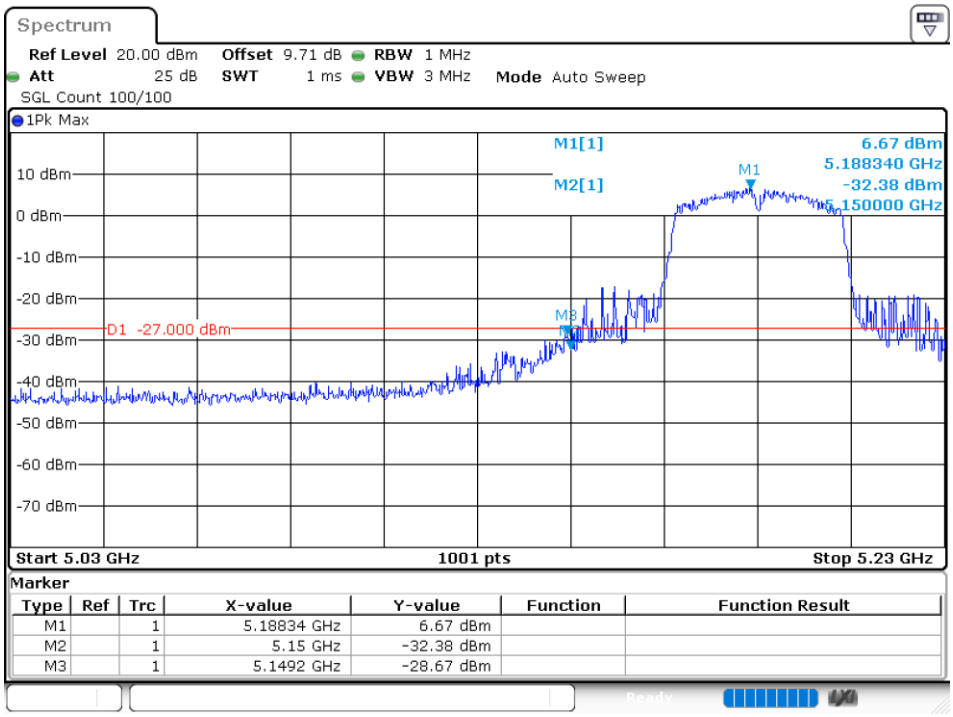
Band Edge NVNT n20 5180MHz Low Ant1



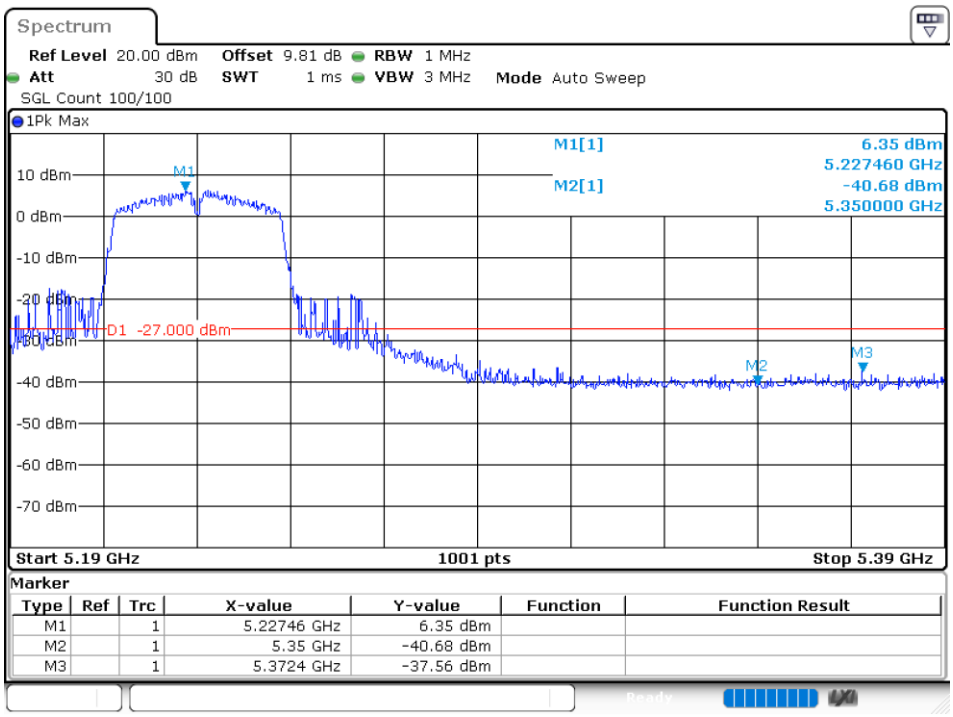
Band Edge NVNT n20 5240MHz High Ant1



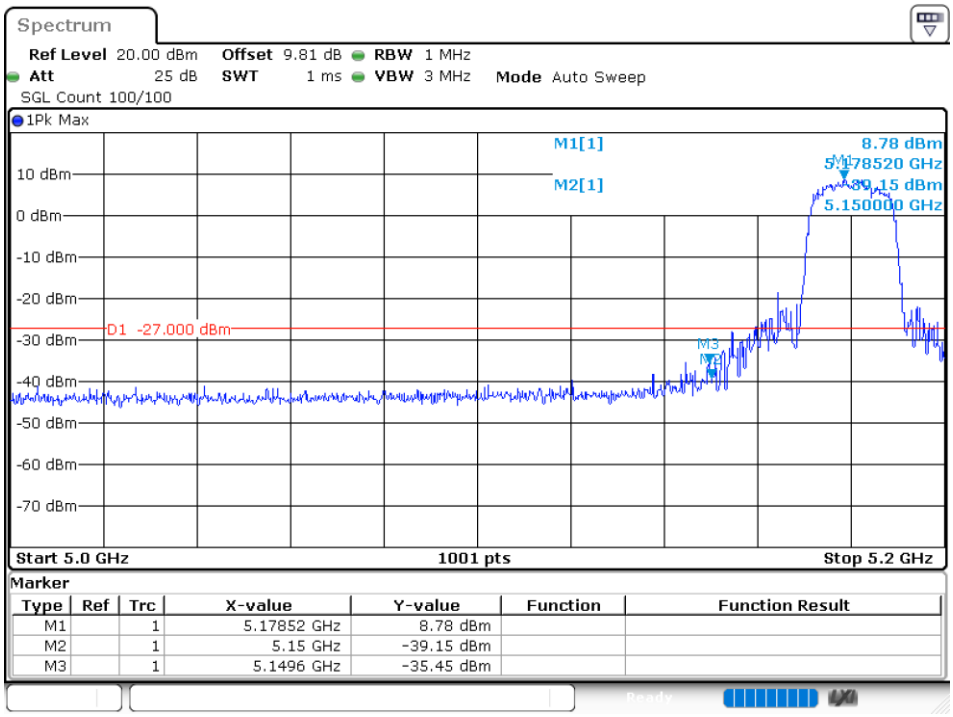
Band Edge NVNT n40 5190MHz Low Ant1



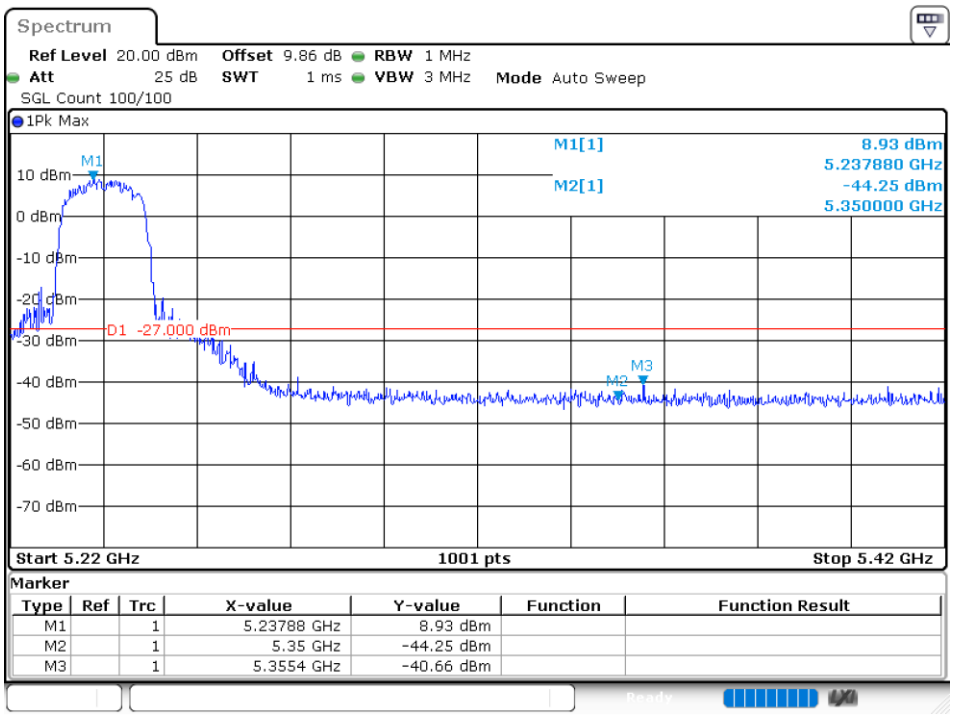
Band Edge NVNT n40 5230MHz High Ant1



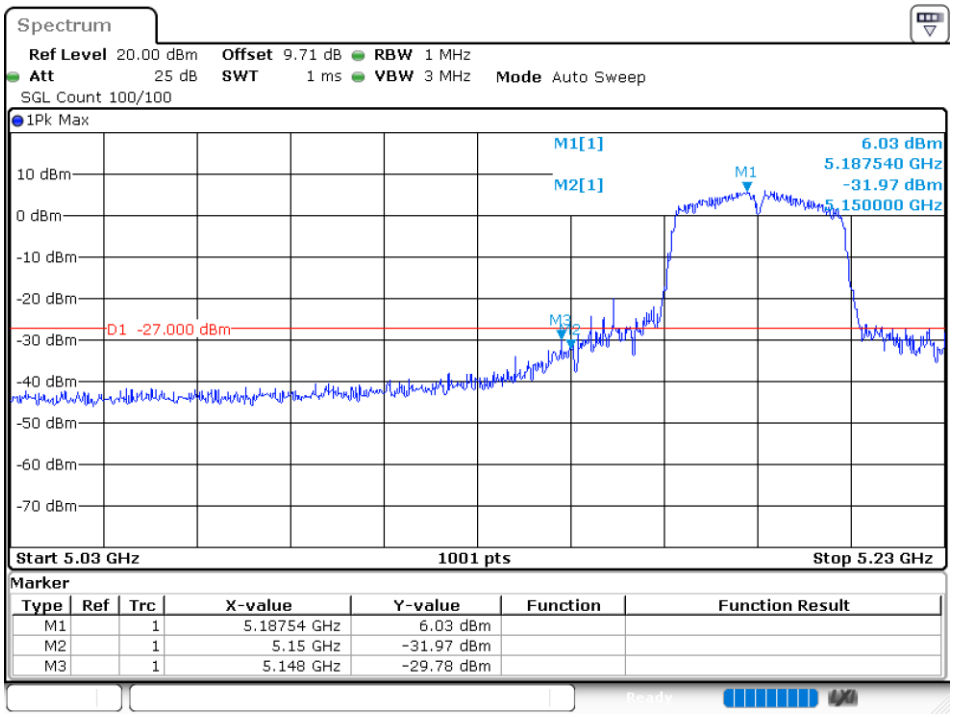
Band Edge NVNT ac20 5180MHz Low Ant1



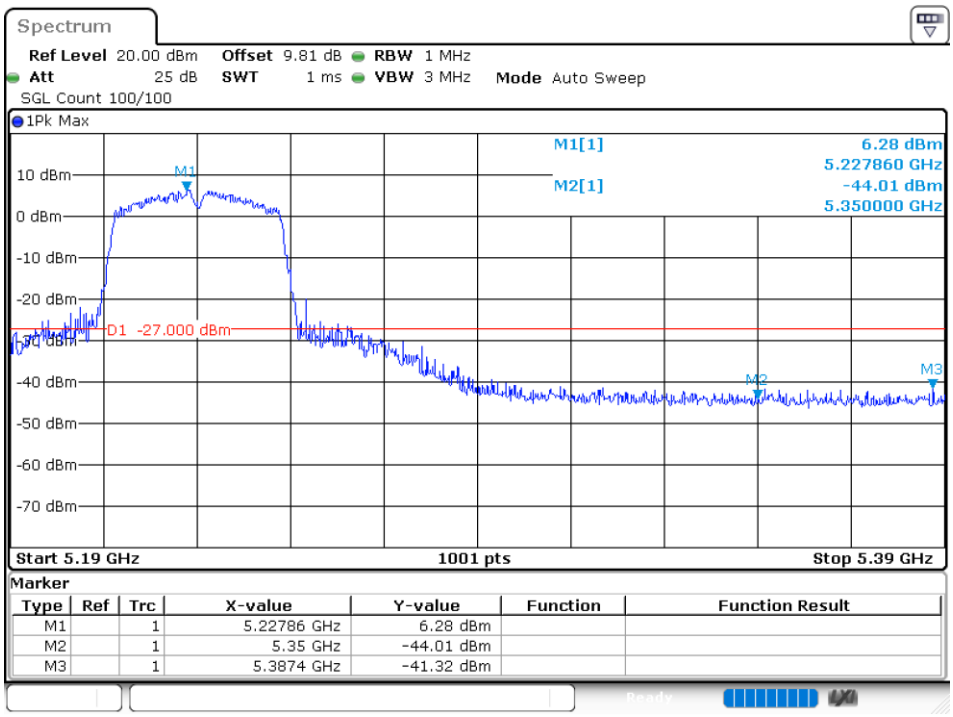
Band Edge NVNT ac20 5240MHz High Ant1



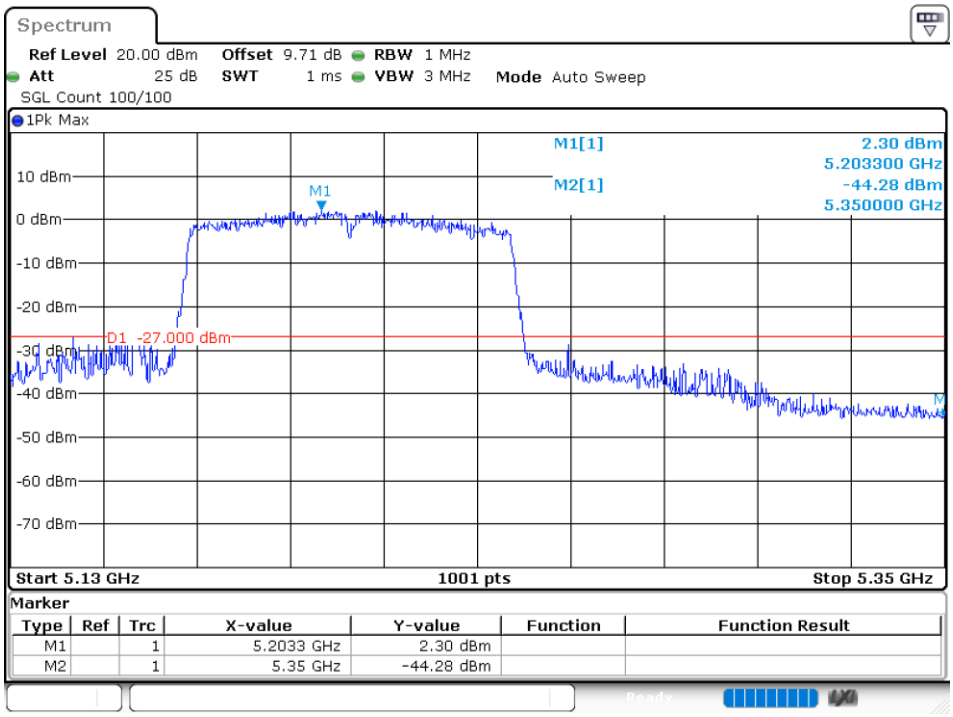
Band Edge NVNT ac40 5190MHz Low Ant1



Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1

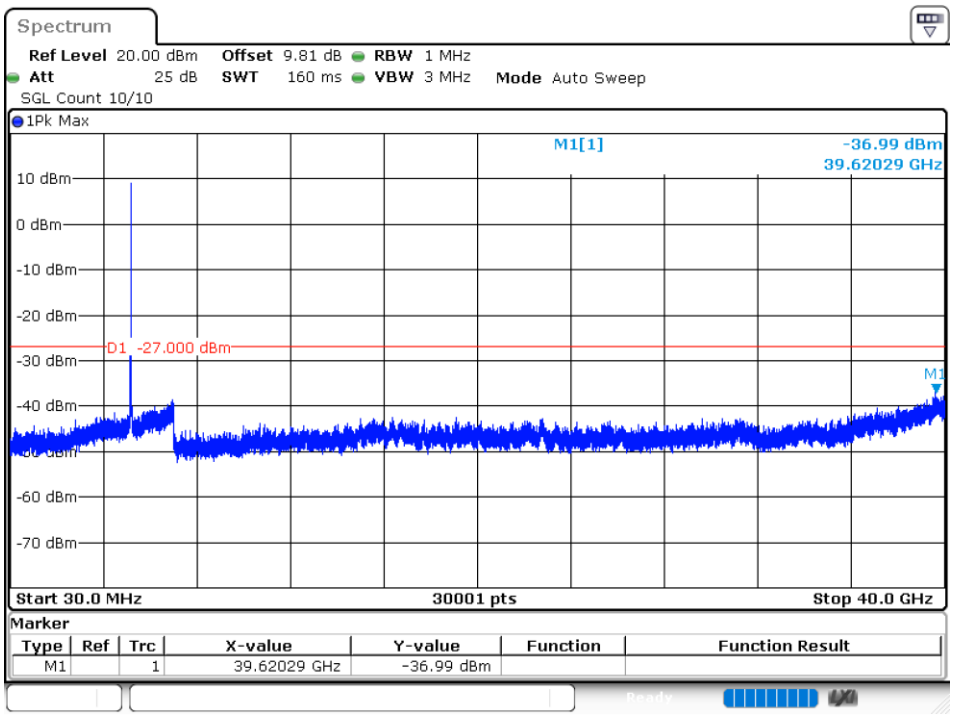


Conducted RF Spurious Emission

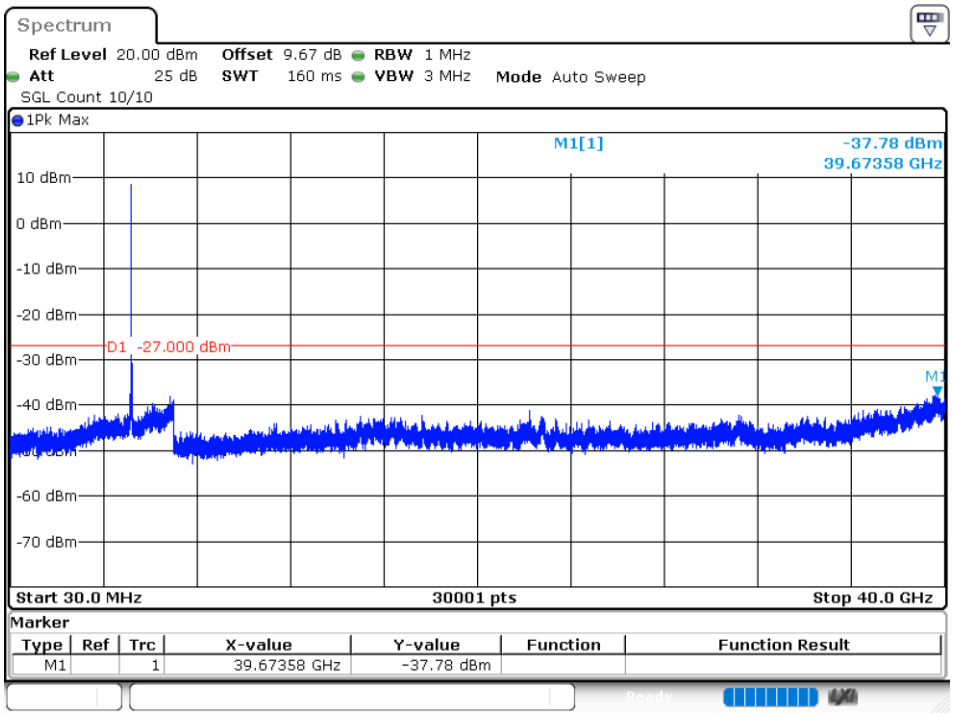
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-36.99	-27	Pass
NVNT	a	5200	Ant1	-37.77	-27	Pass
NVNT	a	5240	Ant1	-37.59	-27	Pass
NVNT	n20	5180	Ant1	-37.01	-27	Pass
NVNT	n20	5200	Ant1	-37.66	-27	Pass
NVNT	n20	5240	Ant1	-36.73	-27	Pass
NVNT	n40	5190	Ant1	-36.93	-27	Pass
NVNT	n40	5230	Ant1	-36.94	-27	Pass
NVNT	ac20	5180	Ant1	-37.12	-27	Pass
NVNT	ac20	5200	Ant1	-37.93	-27	Pass
NVNT	ac20	5240	Ant1	-36.88	-27	Pass
NVNT	ac40	5190	Ant1	-37.67	-27	Pass
NVNT	ac40	5230	Ant1	-36.68	-27	Pass
NVNT	ac80	5210	Ant1	-37.58	-27	Pass

Test Graphs

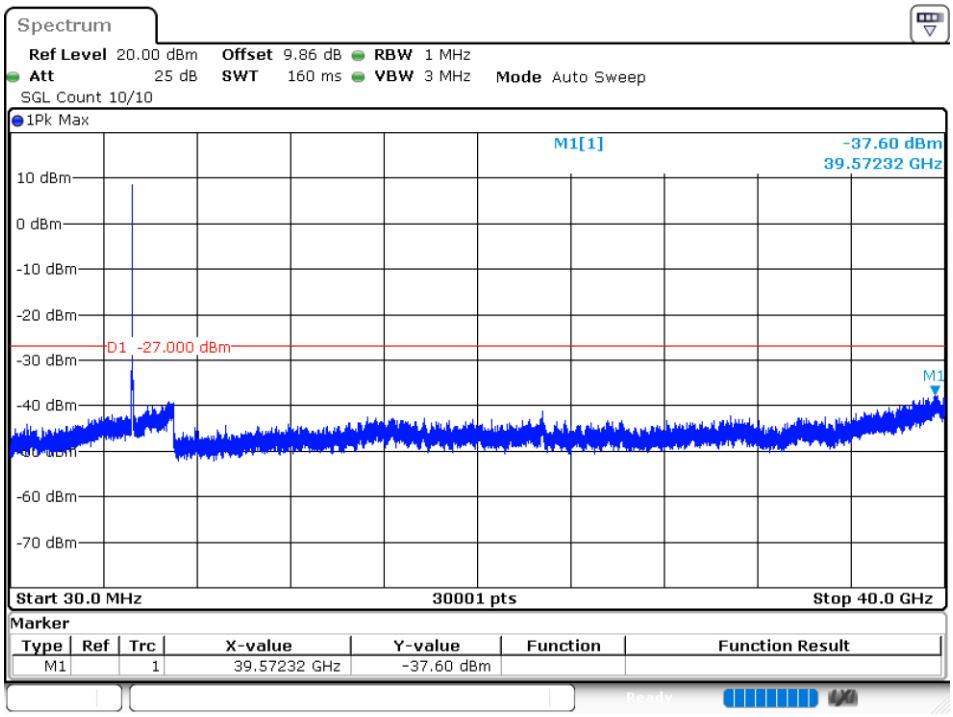
Tx. Spurious NVNT a 5180MHz Ant1 Emission



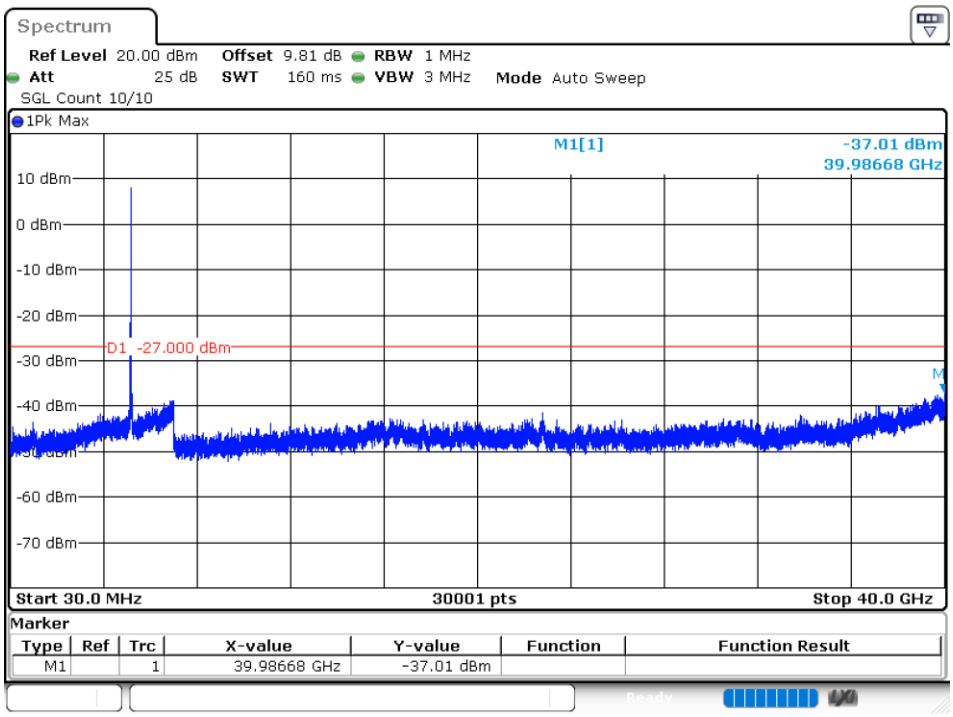
Tx. Spurious NVNT a 5200MHz Ant1 Emission



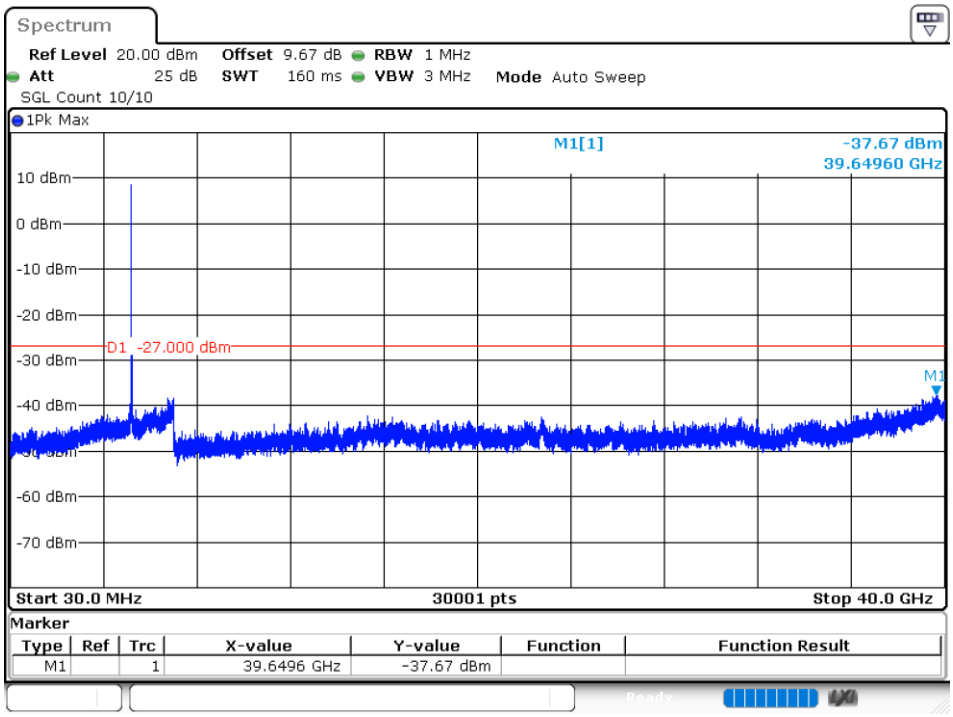
Tx. Spurious NVNT a 5240MHz Ant1 Emission



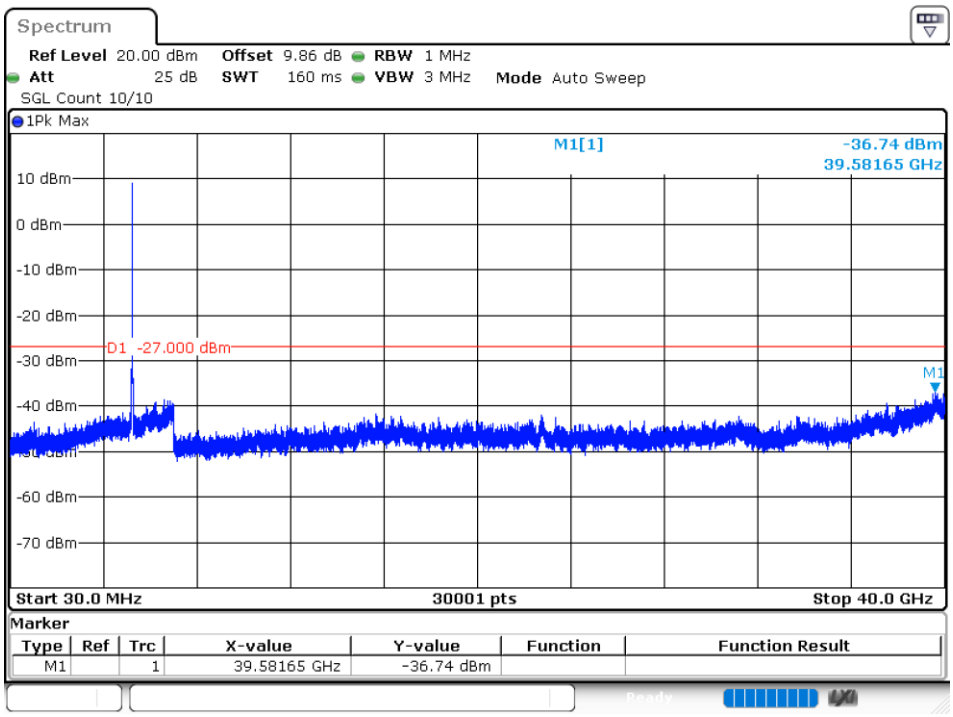
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



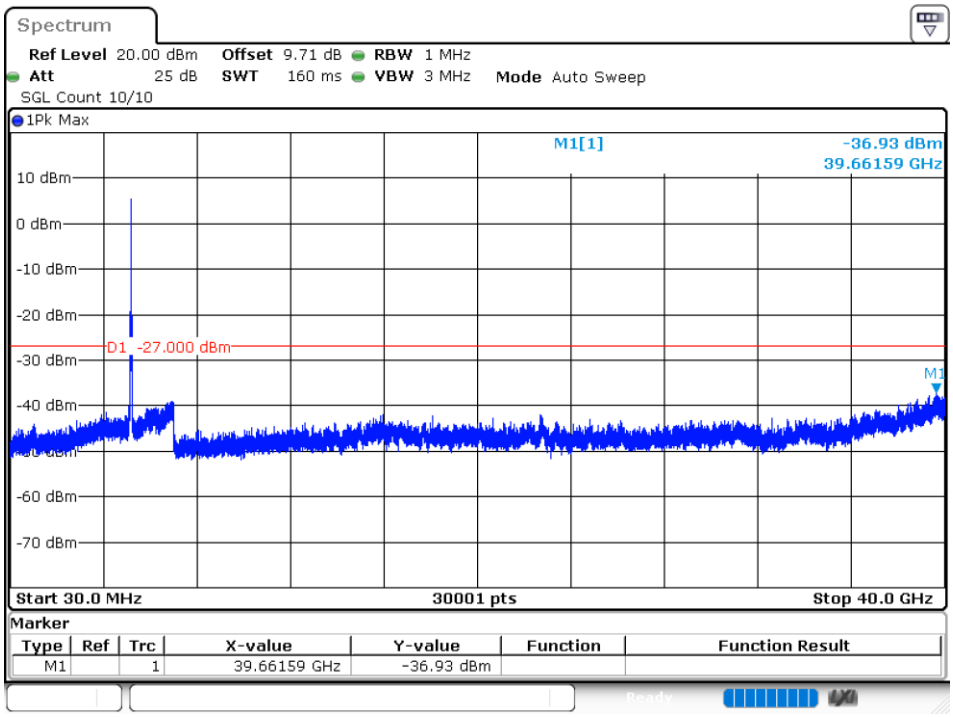
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



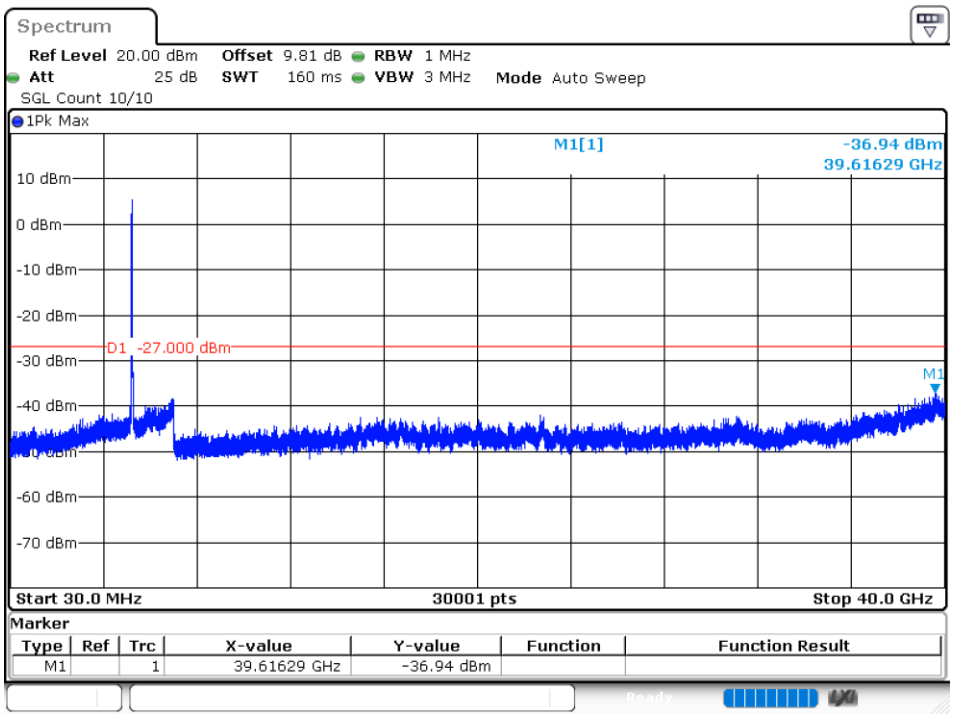
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



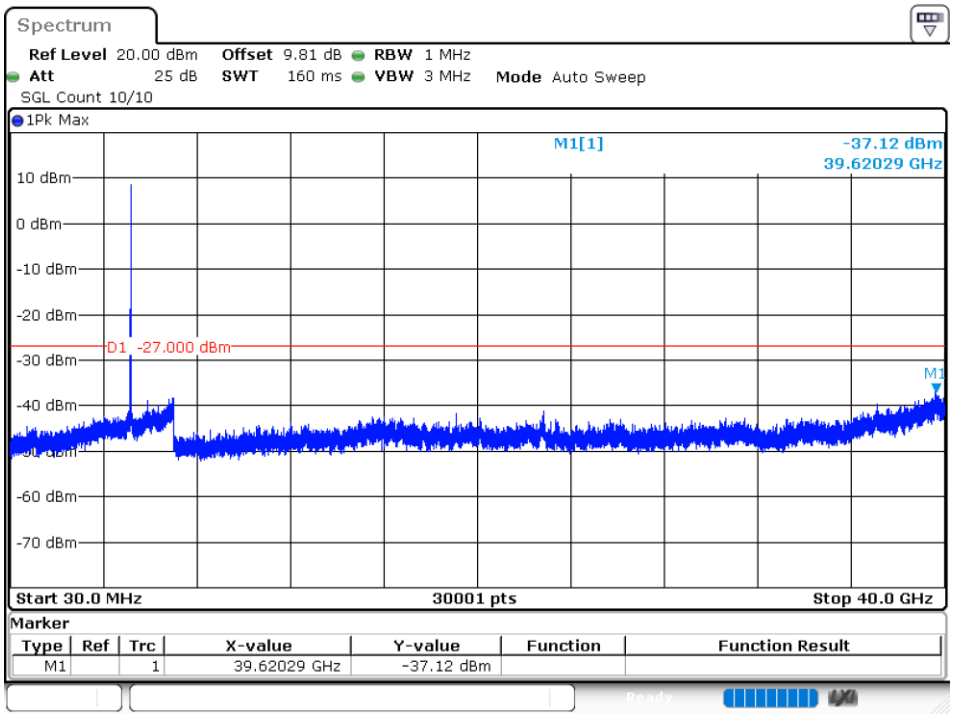
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



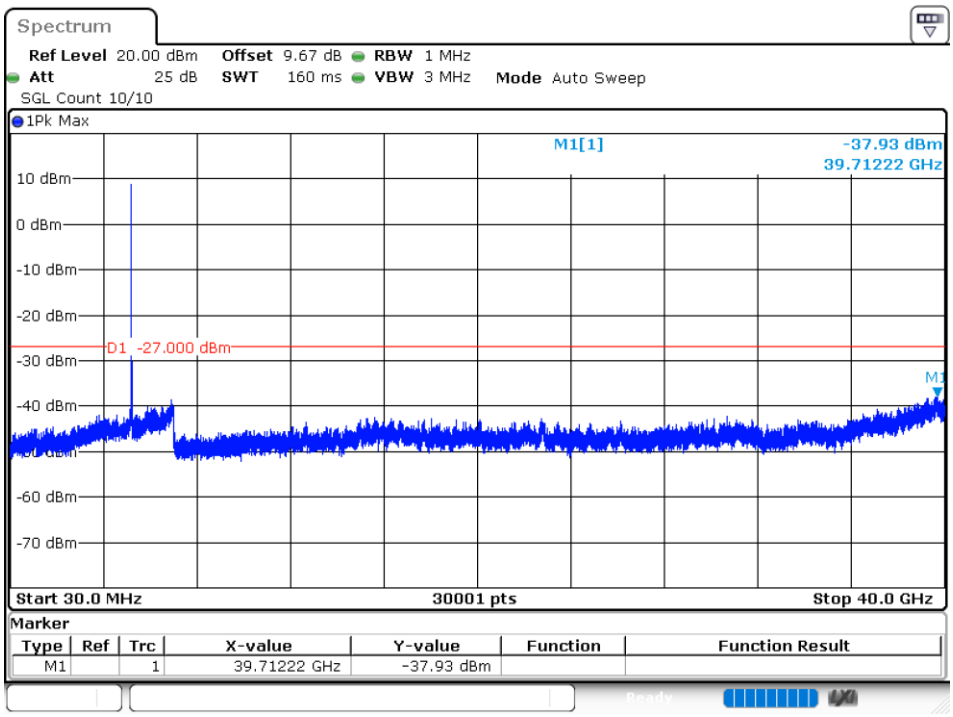
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



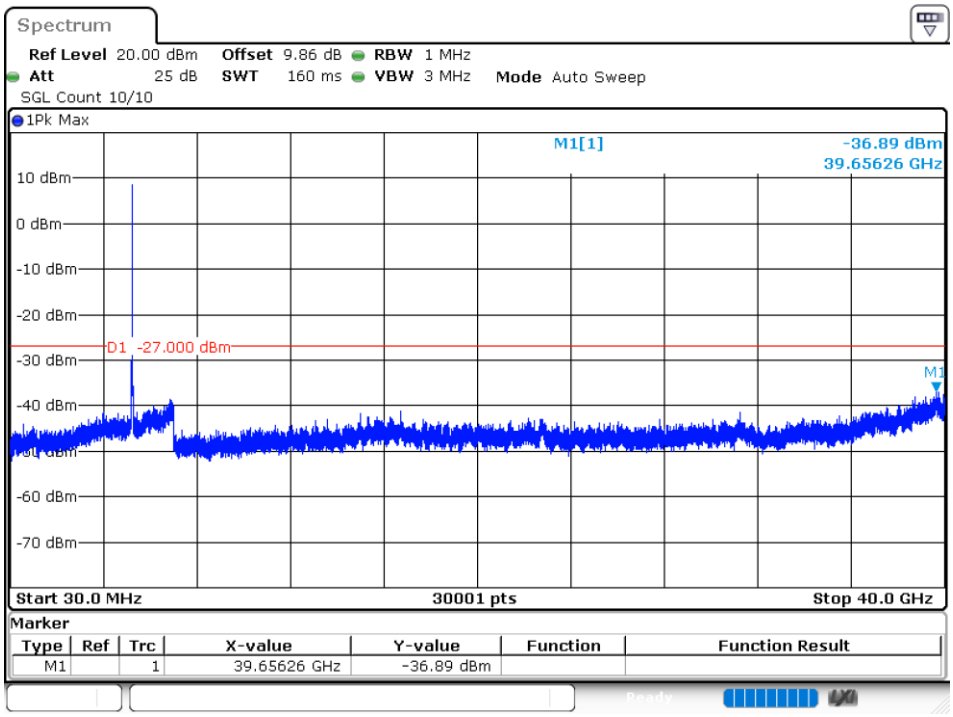
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



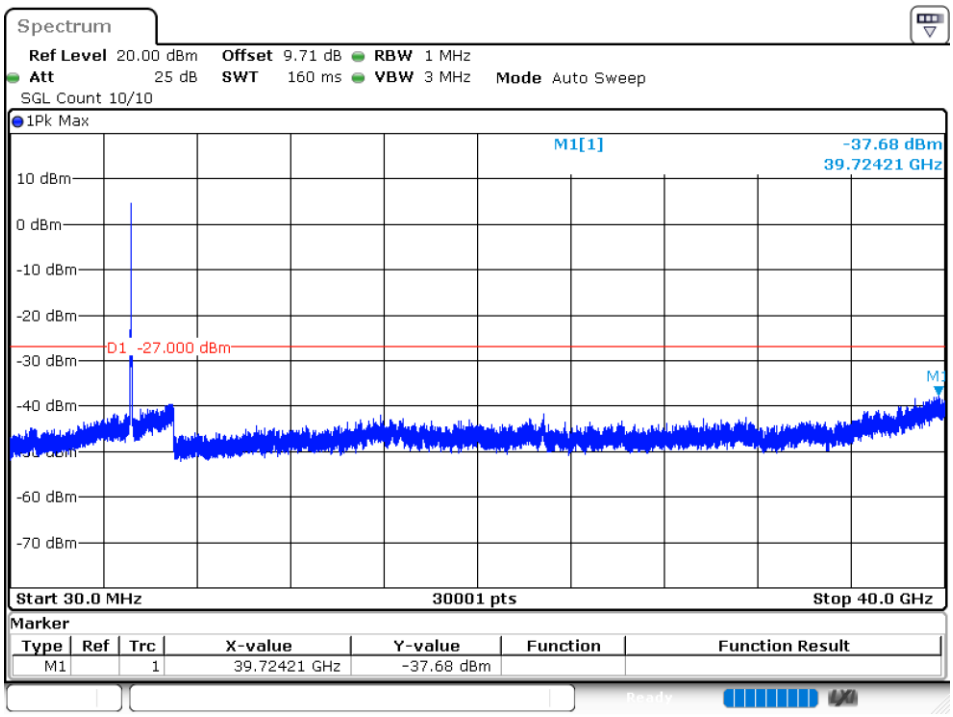
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



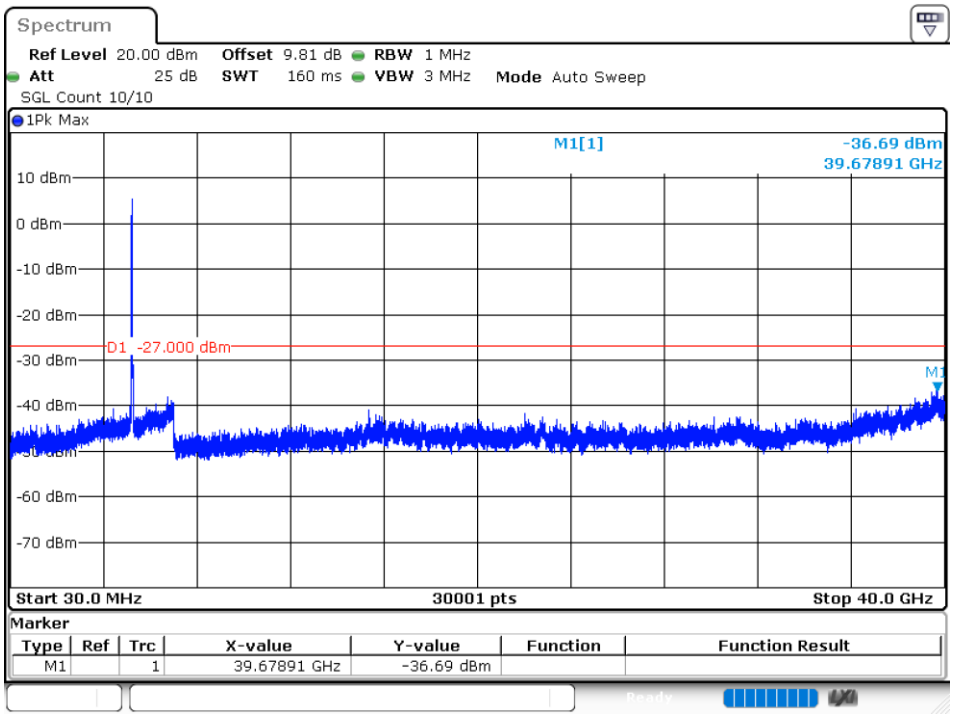
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



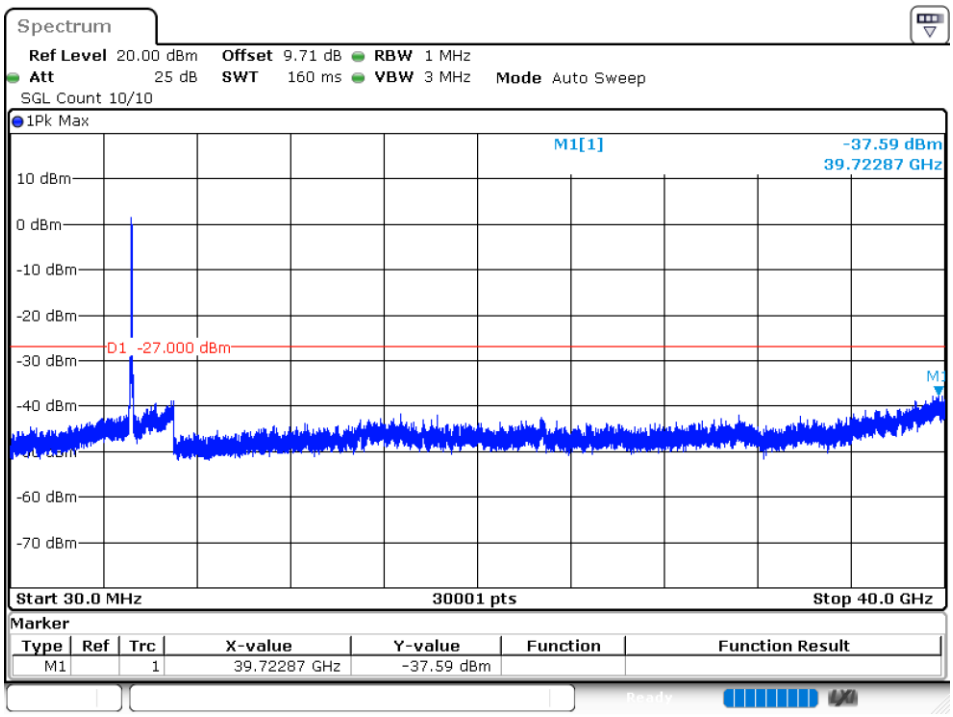
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



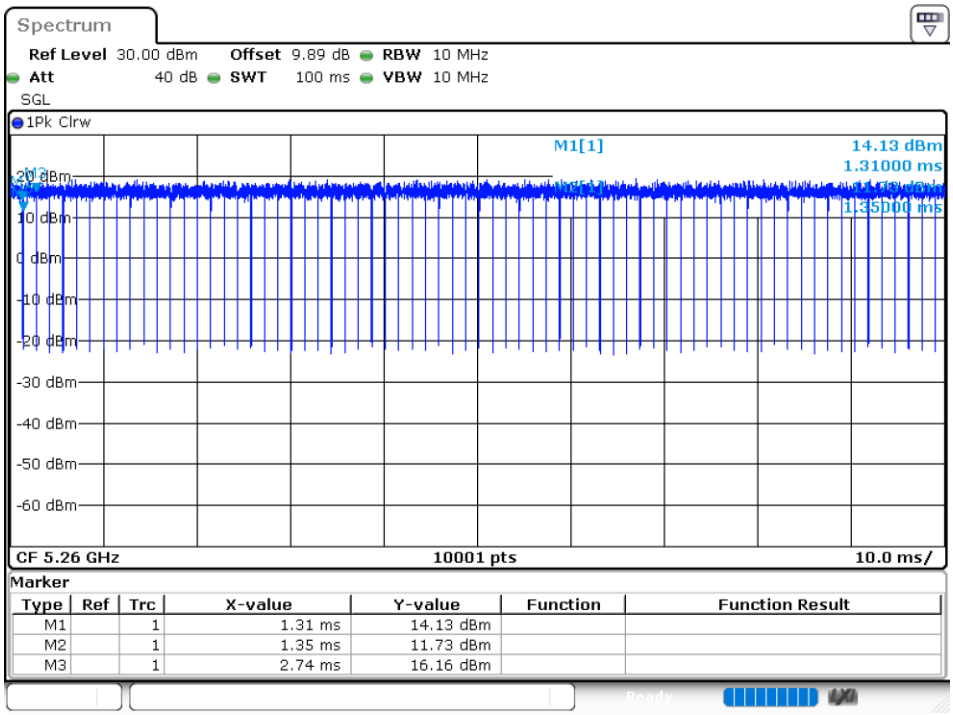
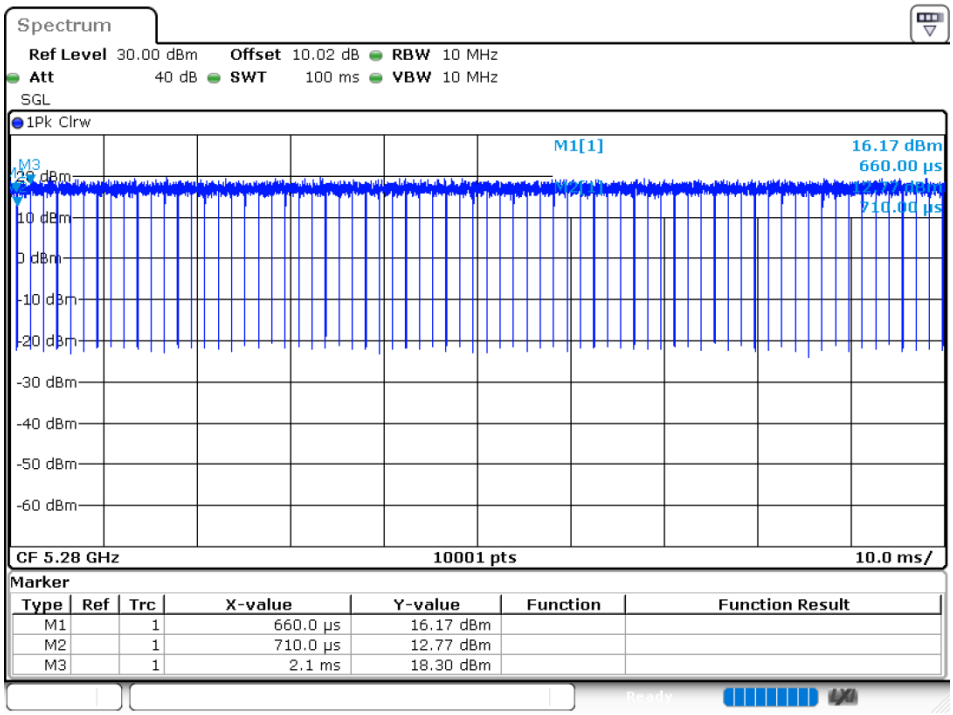
5.3G WIFI:

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.62	0.1	0.72
NVNT	a	5280	Ant1	97.6	0.11	0.72
NVNT	a	5320	Ant1	97.59	0.11	0.72
NVNT	n20	5260	Ant1	97.44	0.11	0.77
NVNT	n20	5280	Ant1	97.41	0.11	0.77
NVNT	n20	5320	Ant1	97.44	0.11	0.77
NVNT	n40	5270	Ant1	95.07	0.22	1.56
NVNT	n40	5310	Ant1	95.07	0.22	1.54
NVNT	ac20	5260	Ant1	97.44	0.11	0.76
NVNT	ac20	5280	Ant1	97.42	0.11	0.76
NVNT	ac20	5320	Ant1	97.45	0.11	0.76
NVNT	ac40	5270	Ant1	95.1	0.22	1.52
NVNT	ac40	5310	Ant1	95.08	0.22	1.54
NVNT	ac80	5290	Ant1	90.64	0.43	3.03

Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5280MHz Ant1