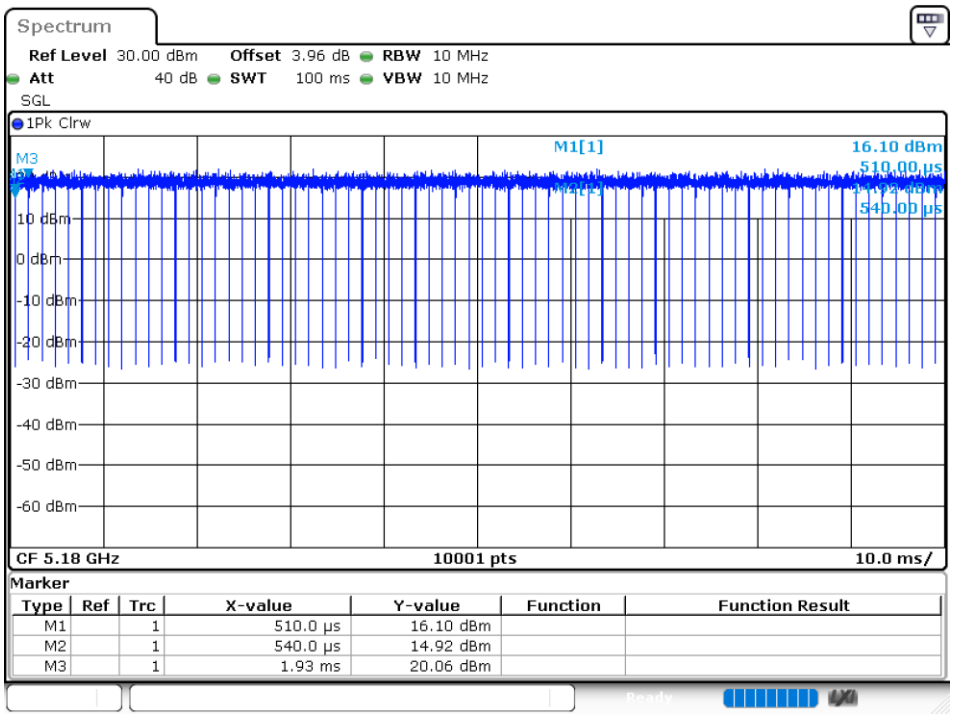
5.2G WIFI

Duty Cycle

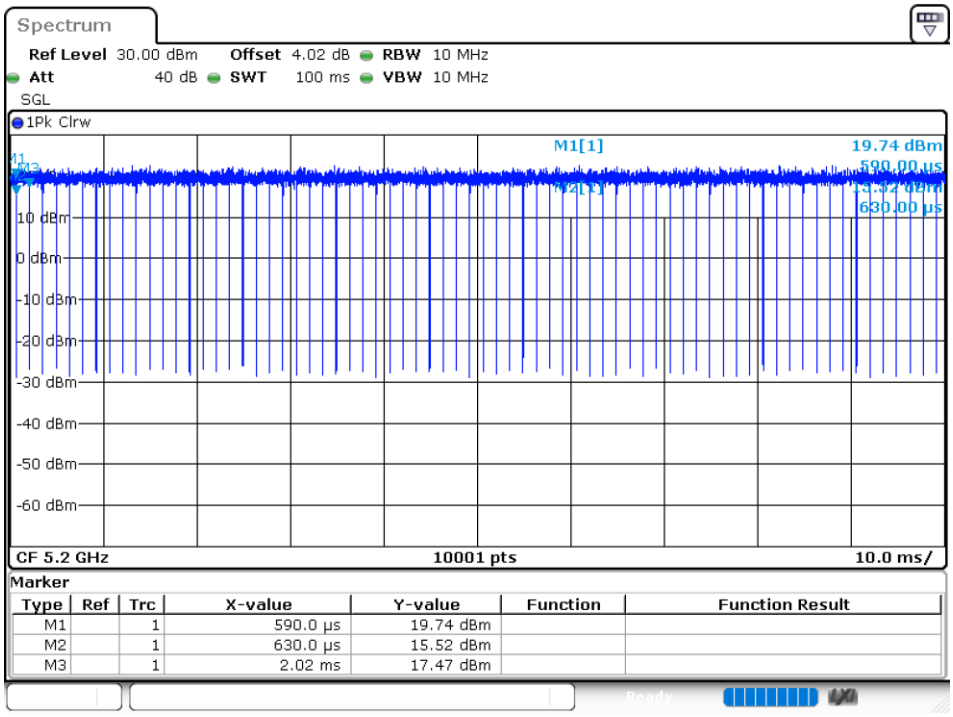
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.2	0.08	0.72
NVNT	a	5200	Ant1	98.2	0.08	0.72
NVNT	a	5240	Ant1	98.19	0.08	0.72
NVNT	n20	5180	Ant1	98.07	0.08	0.77
NVNT	n20	5200	Ant1	98.07	0.08	0.77
NVNT	n20	5240	Ant1	98.06	0.09	0.77
NVNT	n40	5190	Ant1	92.8	0.32	1.56
NVNT	n40	5230	Ant1	95.45	0.2	1.54
NVNT	ac20	5180	Ant1	98.07	0.08	0.76
NVNT	ac20	5200	Ant1	98.07	0.08	0.76
NVNT	ac20	5240	Ant1	98.02	0.09	0.76
NVNT	ac40	5190	Ant1	95.49	0.2	1.54
NVNT	ac40	5230	Ant1	94.8	0.23	1.52
NVNT	ac80	5210	Ant1	85.76	0.67	3.03

Test Graphs

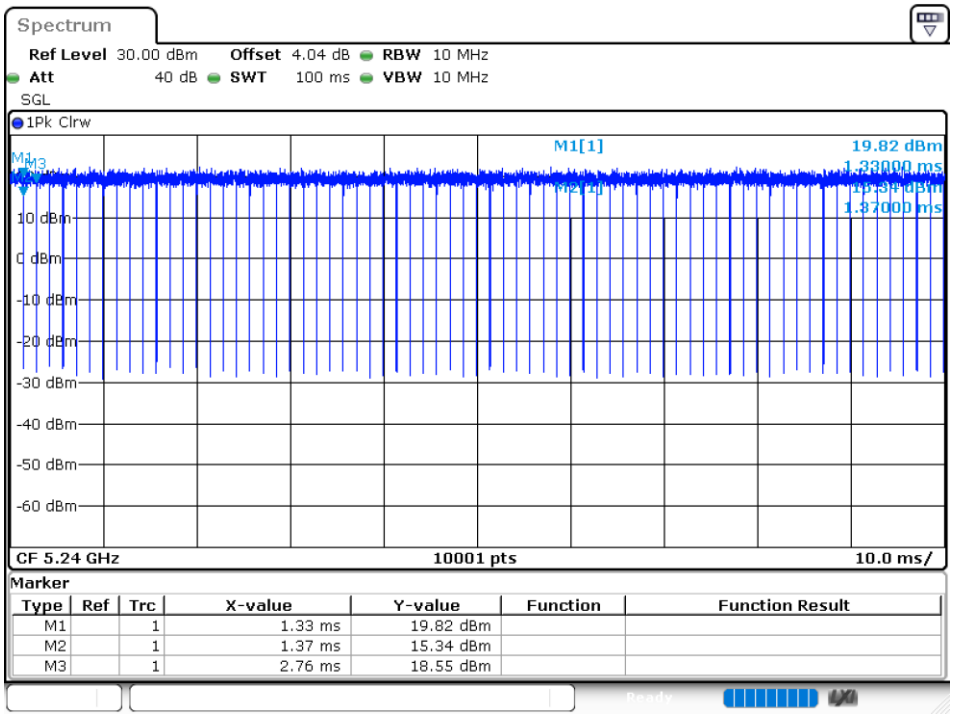
Duty Cycle NVNT a 5180MHz Ant1



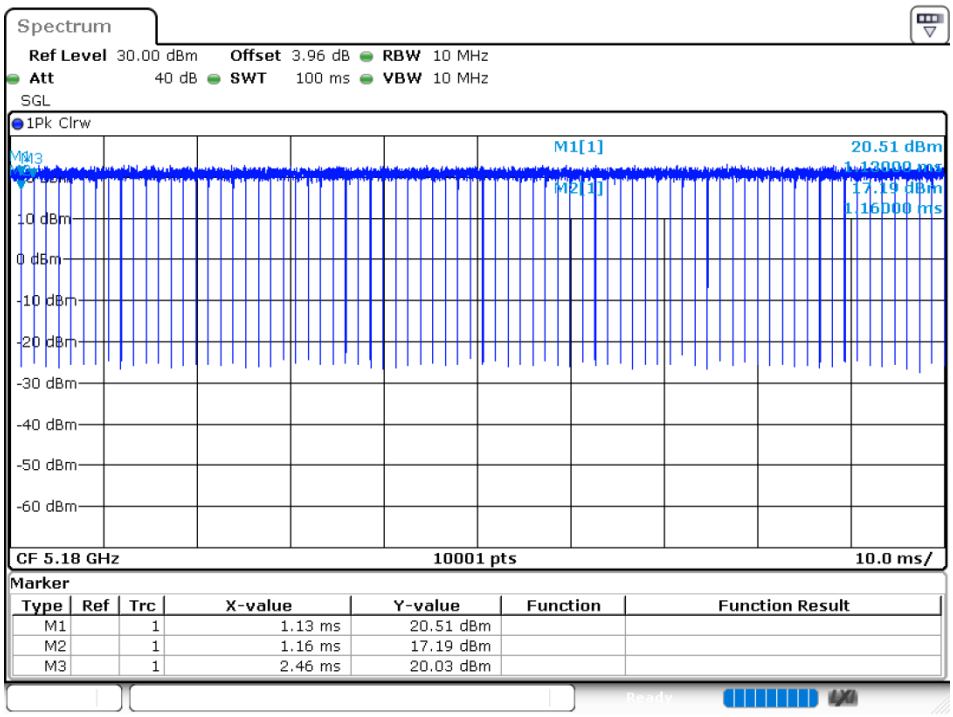
Duty Cycle NVNT a 5200MHz Ant1



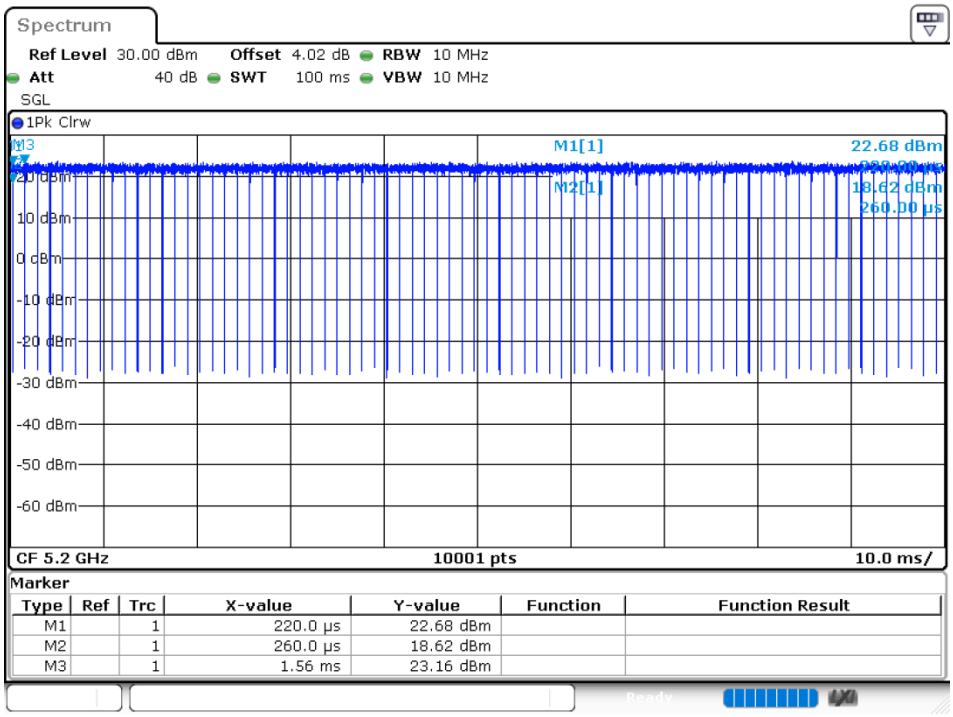
Duty Cycle NVNT a 5240MHz Ant1



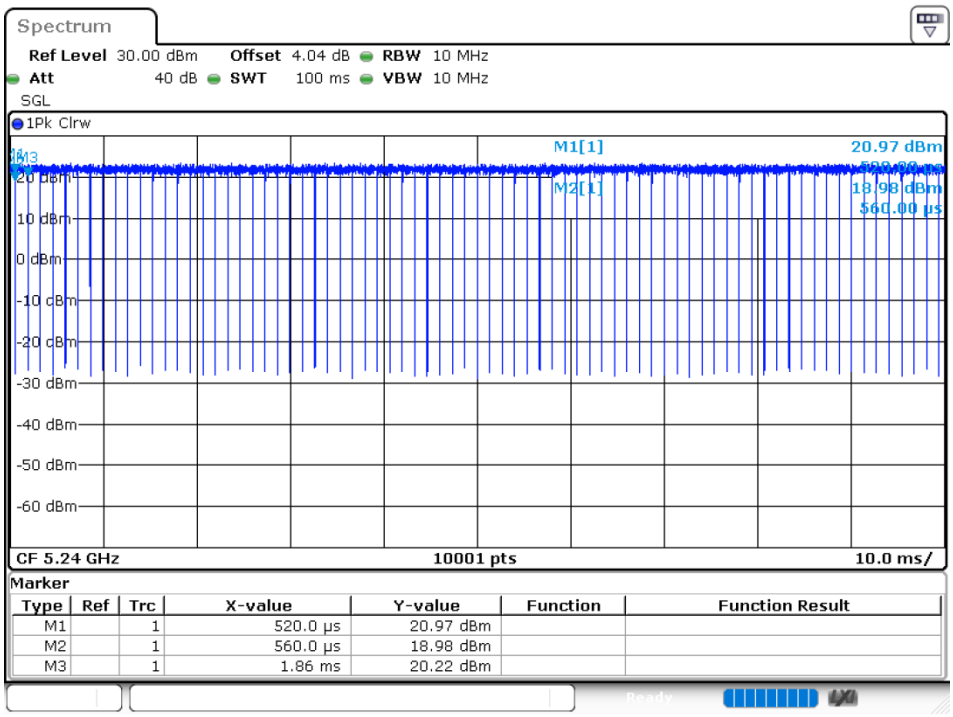
Duty Cycle NVNT n20 5180MHz Ant1



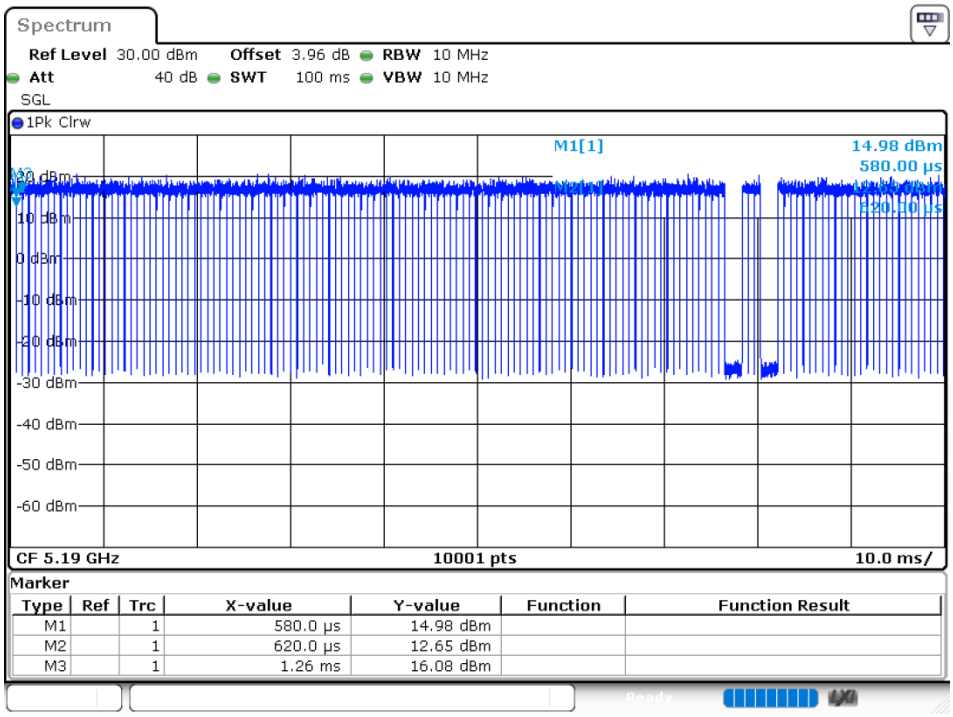
Duty Cycle NVNT n20 5200MHz Ant1



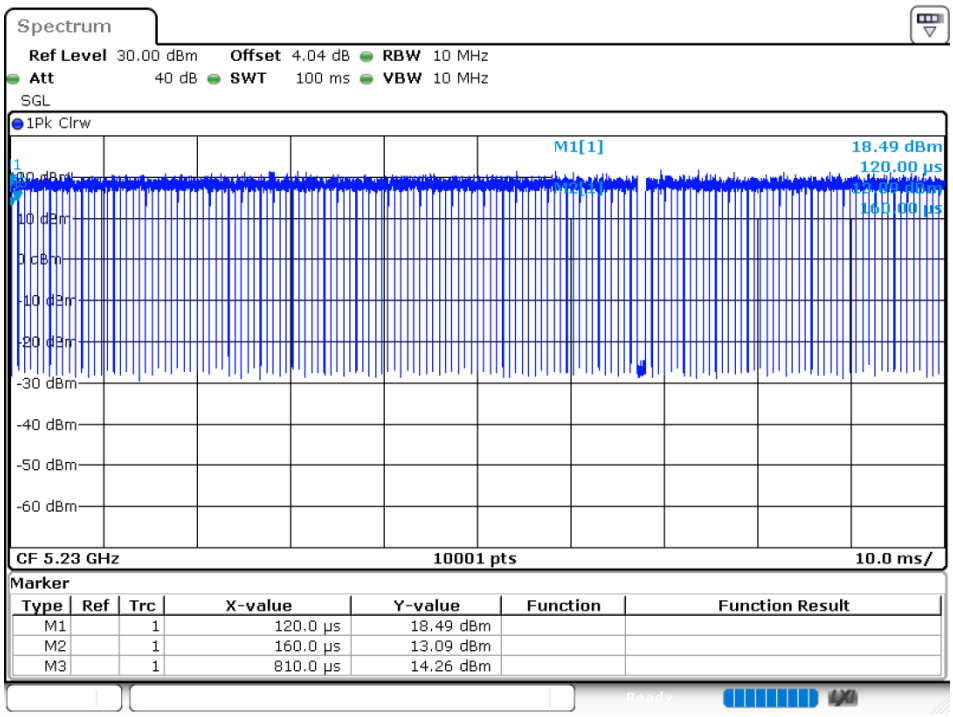
Duty Cycle NVNT n20 5240MHz Ant1



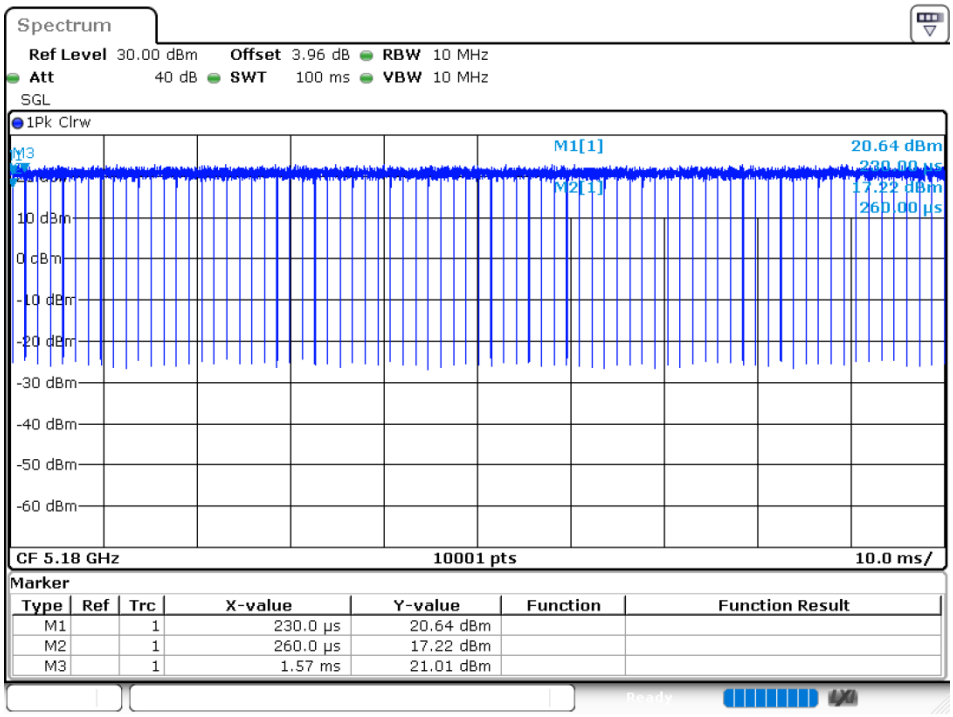
Duty Cycle NVNT n40 5190MHz Ant1



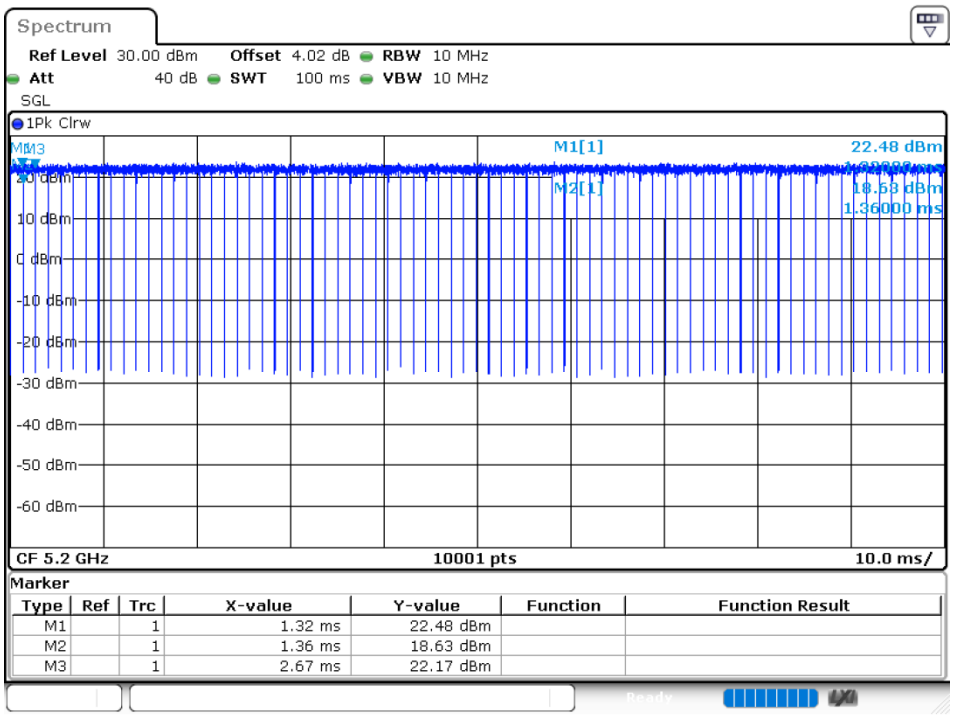
Duty Cycle NVNT n40 5230MHz Ant1



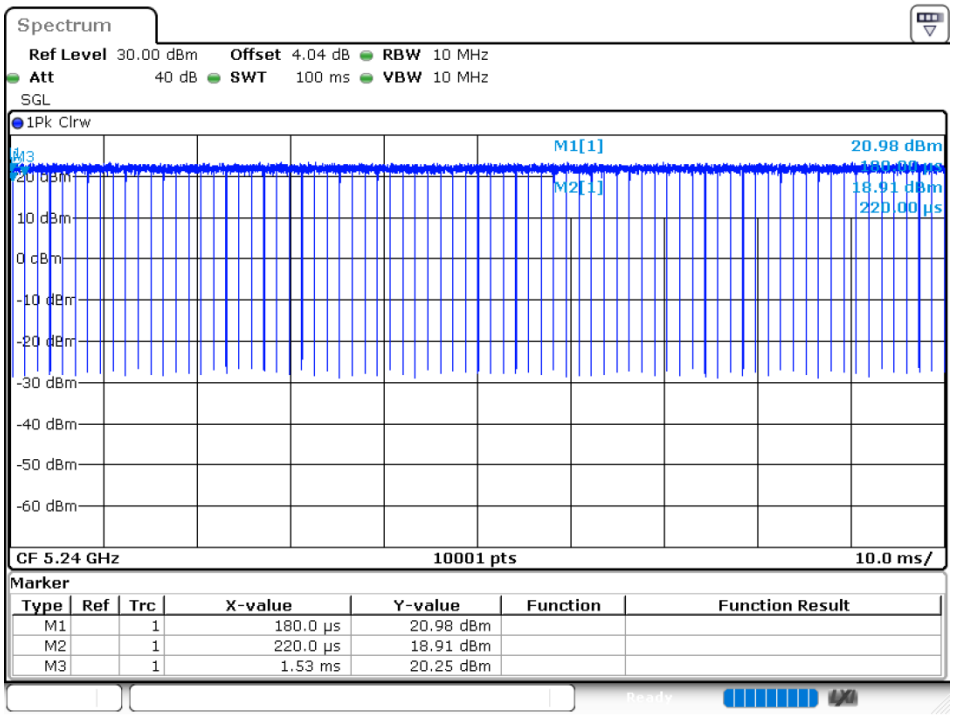
Duty Cycle NVNT ac20 5180MHz Ant1



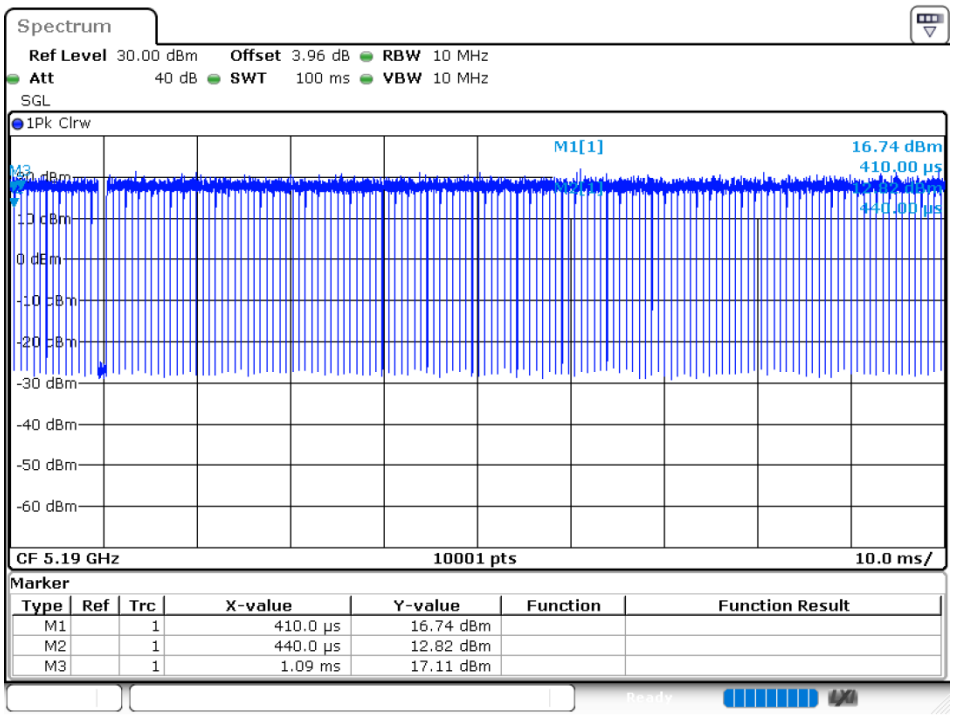
Duty Cycle NVNT ac20 5200MHz Ant1



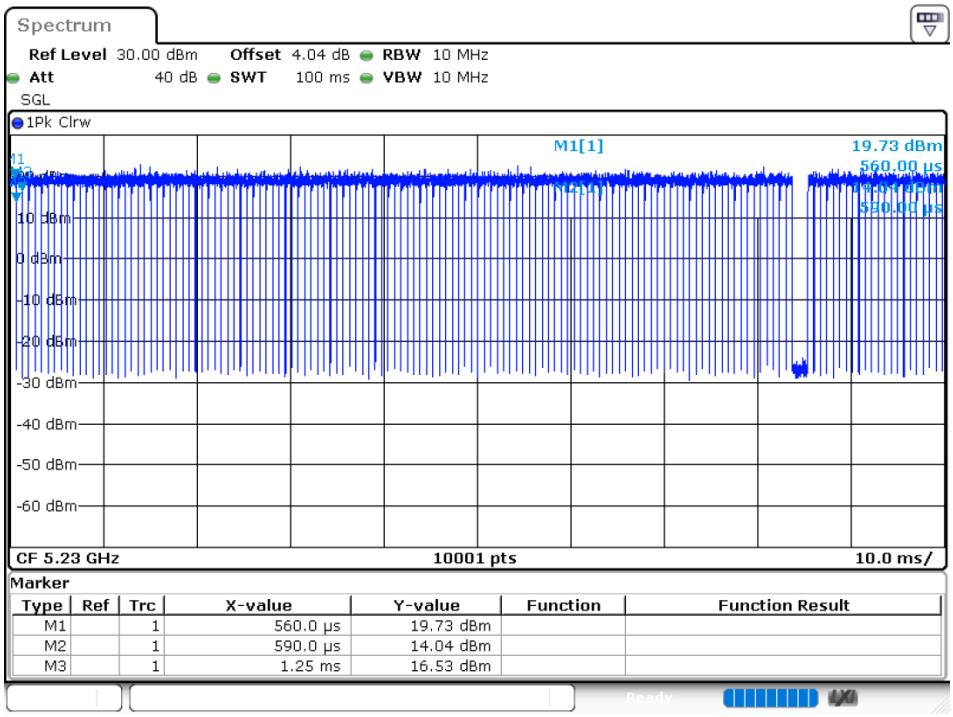
Duty Cycle NVNT ac20 5240MHz Ant1



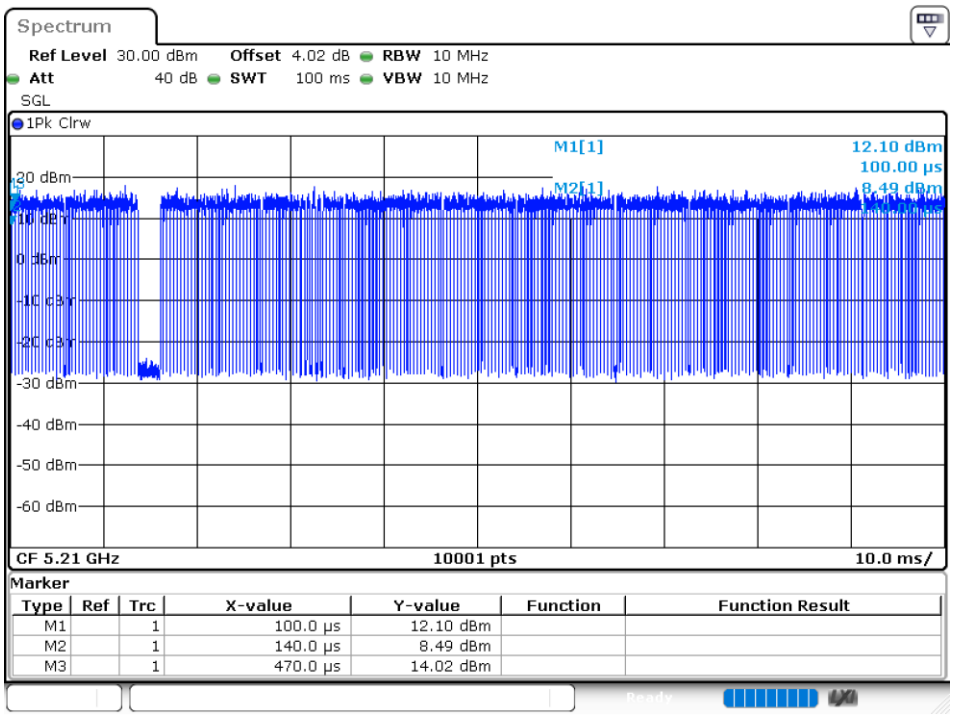
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

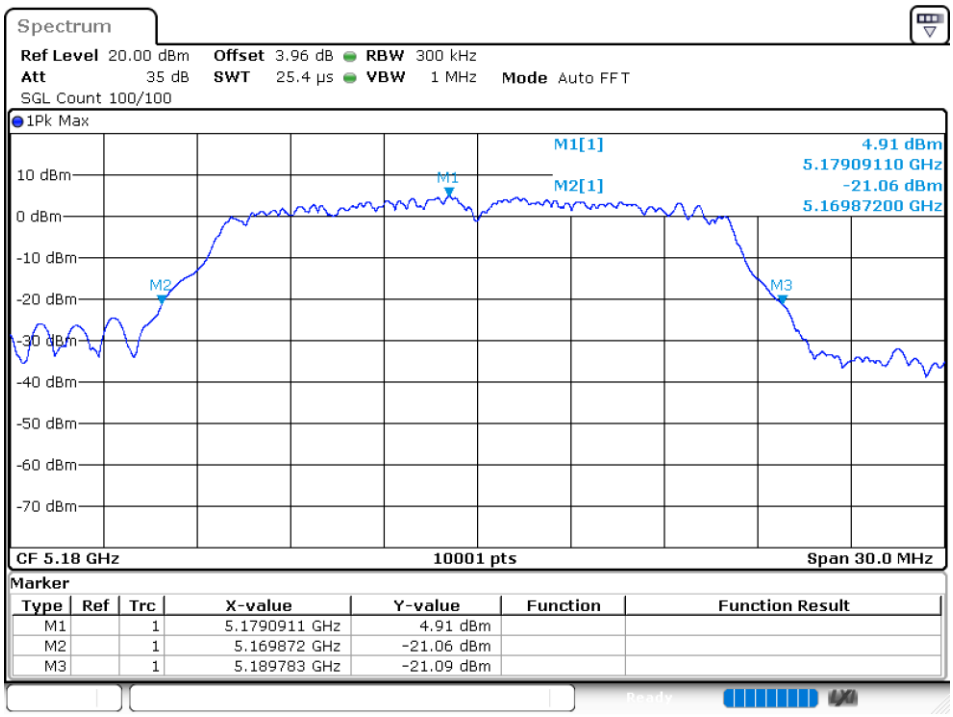
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.52	24	Pass
NVNT	a	5200	Ant1	16.48	24	Pass
NVNT	a	5240	Ant1	16.63	24	Pass
NVNT	n20	5180	Ant1	16.35	24	Pass
NVNT	n20	5200	Ant1	16.24	24	Pass
NVNT	n20	5240	Ant1	16.31	24	Pass
NVNT	n40	5190	Ant1	14.43	24	Pass
NVNT	n40	5230	Ant1	16.21	24	Pass
NVNT	ac20	5180	Ant1	16.32	24	Pass
NVNT	ac20	5200	Ant1	16.17	24	Pass
NVNT	ac20	5240	Ant1	16.22	24	Pass
NVNT	ac40	5190	Ant1	14.23	24	Pass
NVNT	ac40	5230	Ant1	16.19	24	Pass
NVNT	ac80	5210	Ant1	13.54	24	Pass

-26dB Bandwidth

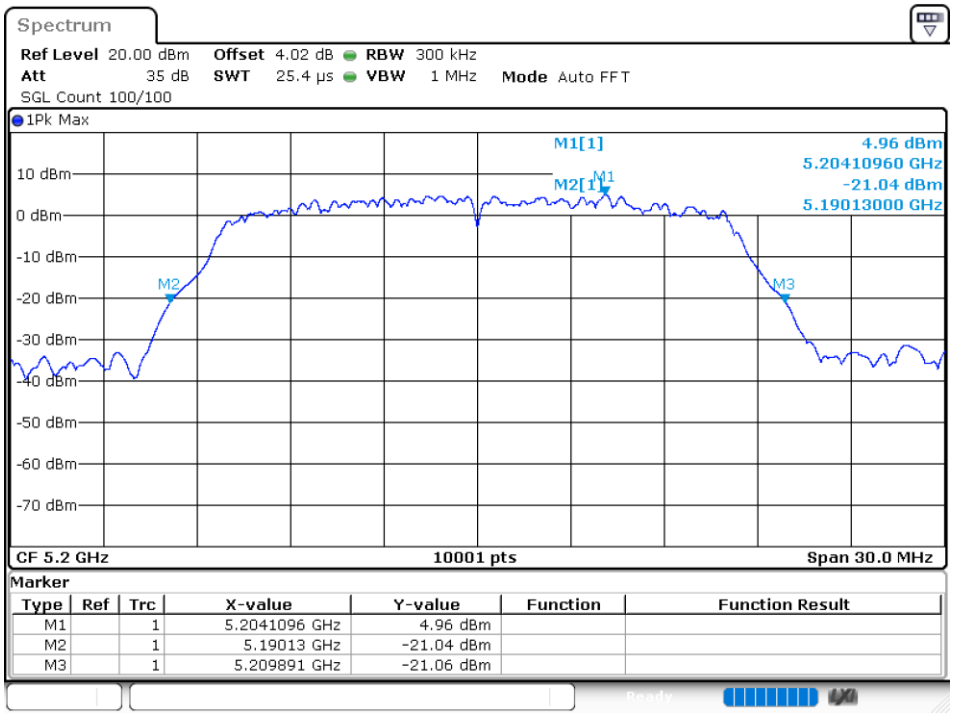
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.911	Pass
NVNT	a	5200	Ant1	19.761	Pass
NVNT	a	5240	Ant1	19.797	Pass
NVNT	n20	5180	Ant1	23.463	Pass
NVNT	n20	5200	Ant1	21.378	Pass
NVNT	n20	5240	Ant1	20.313	Pass
NVNT	n40	5190	Ant1	40.794	Pass
NVNT	n40	5230	Ant1	43.596	Pass
NVNT	ac20	5180	Ant1	20.364	Pass
NVNT	ac20	5200	Ant1	20.418	Pass
NVNT	ac20	5240	Ant1	20.31	Pass
NVNT	ac40	5190	Ant1	40.692	Pass
NVNT	ac40	5230	Ant1	43.926	Pass
NVNT	ac80	5210	Ant1	81.252	Pass

Test Graphs

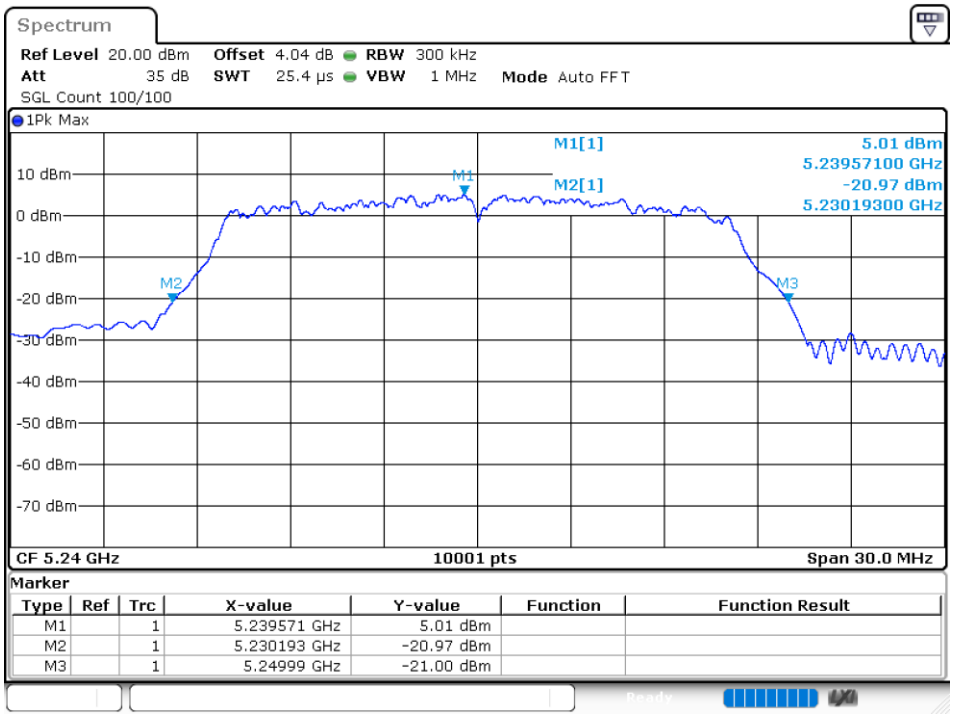
-26dB Bandwidth NVNT a 5180MHz Ant1



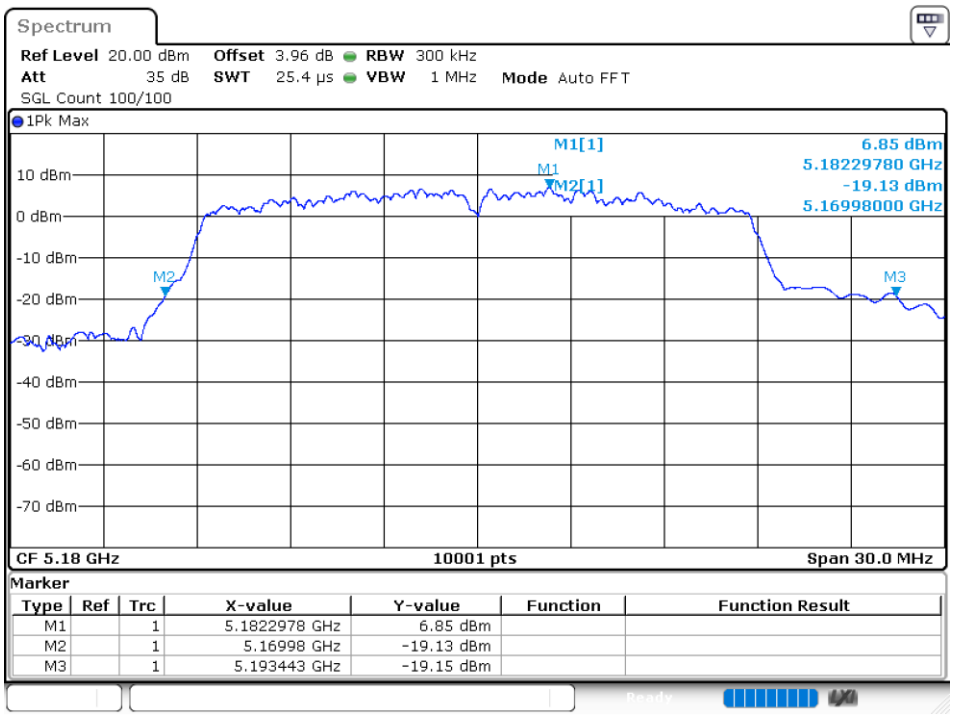
-26dB Bandwidth NVNT a 5200MHz Ant1



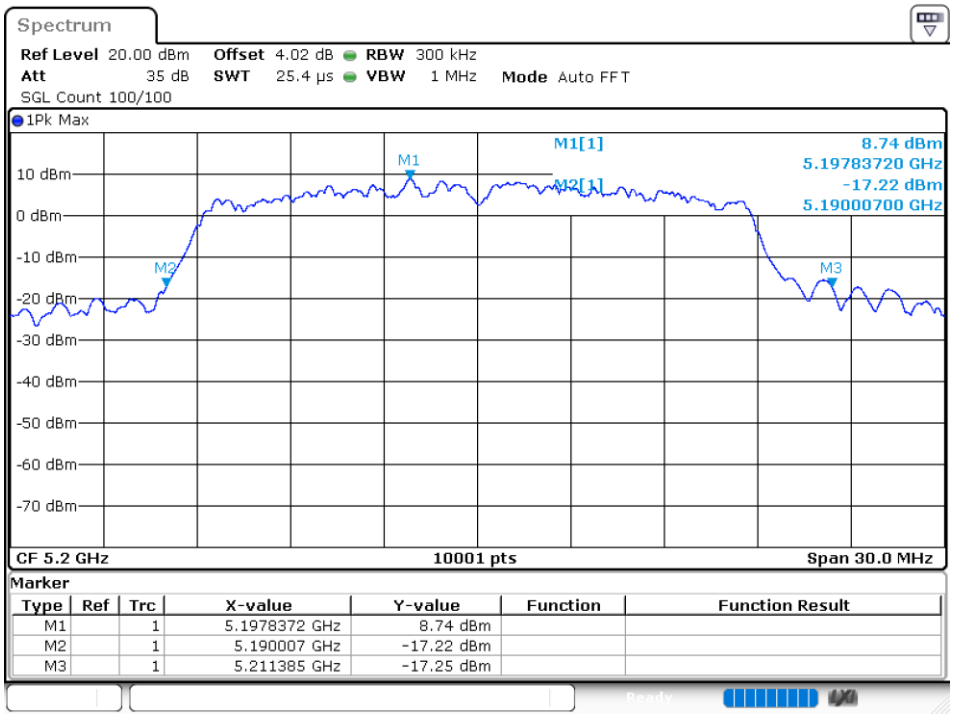
-26dB Bandwidth NVNT a 5240MHz Ant1



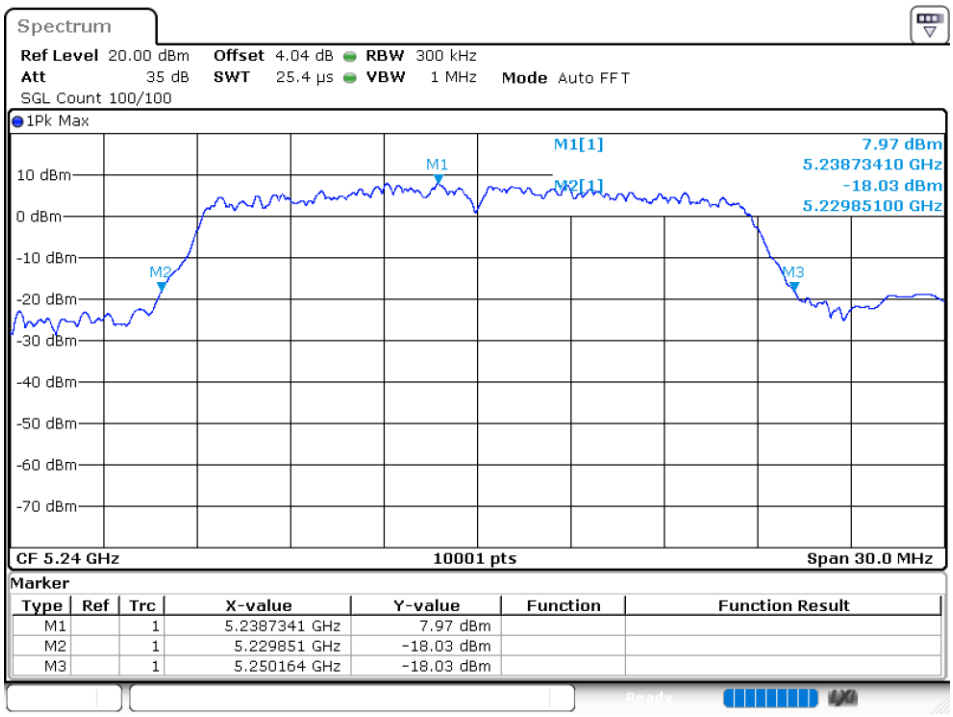
-26dB Bandwidth NVNT n20 5180MHz Ant1



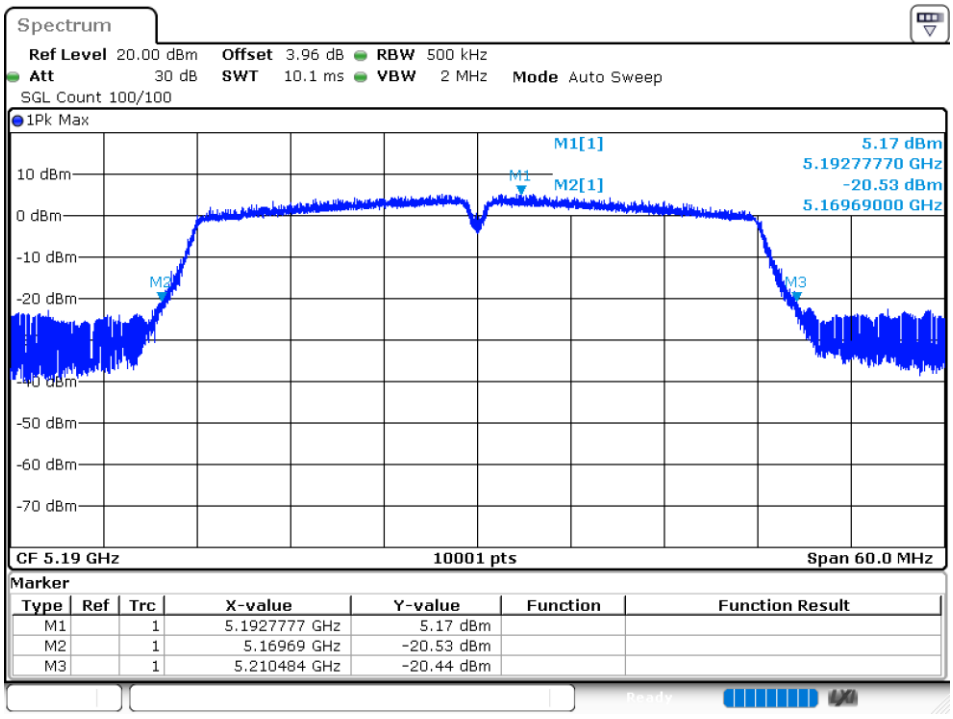
-26dB Bandwidth NVNT n20 5200MHz Ant1



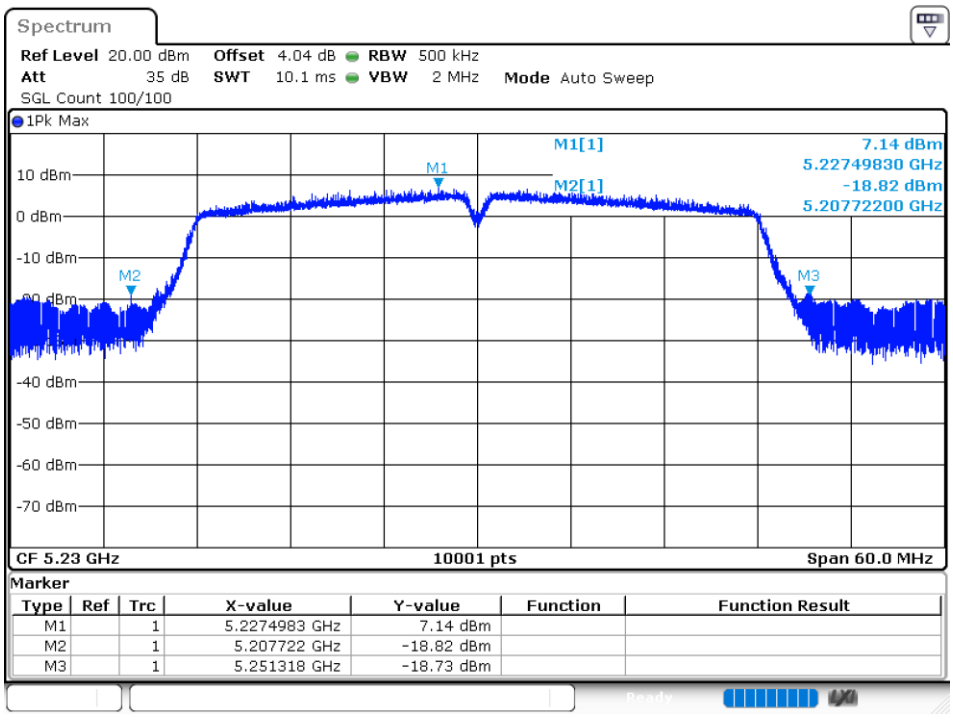
-26dB Bandwidth NVNT n20 5240MHz Ant1



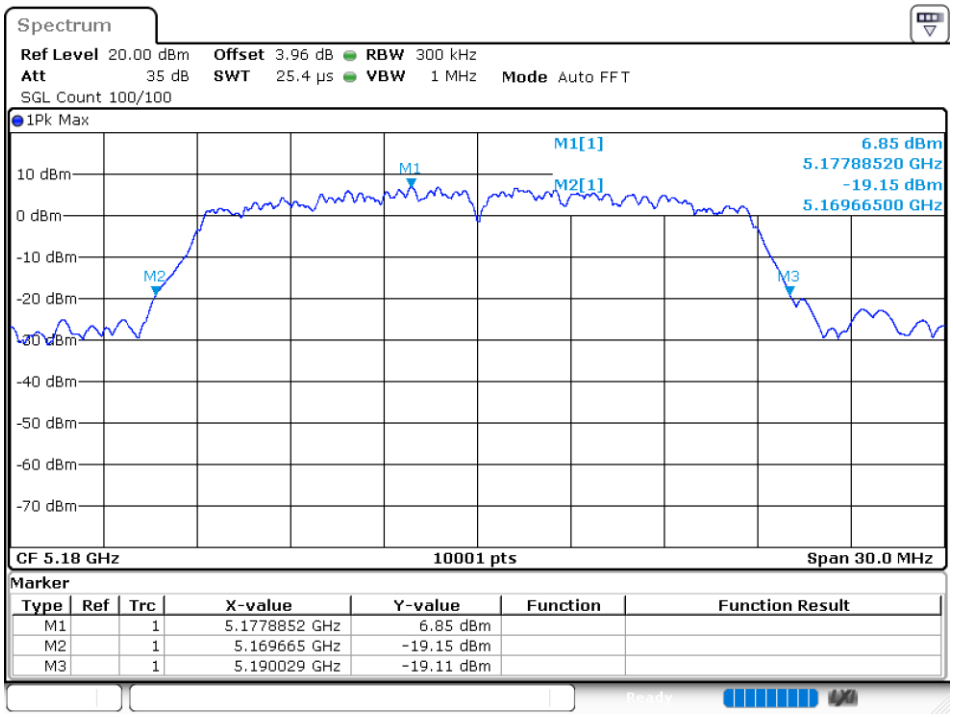
-26dB Bandwidth NVNT n40 5190MHz Ant1



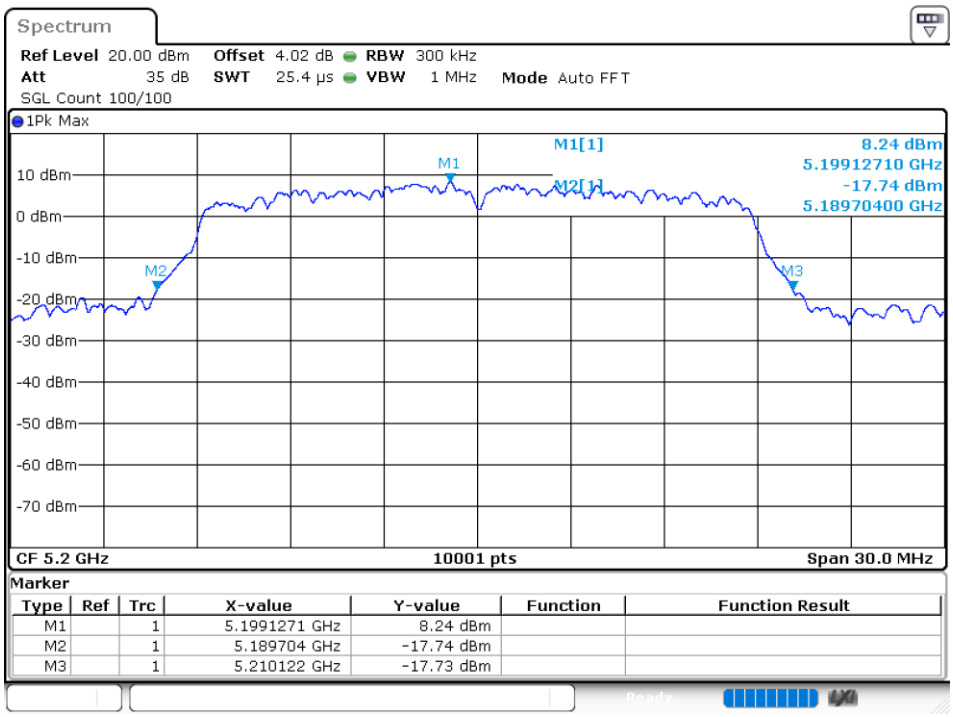
-26dB Bandwidth NVNT n40 5230MHz Ant1



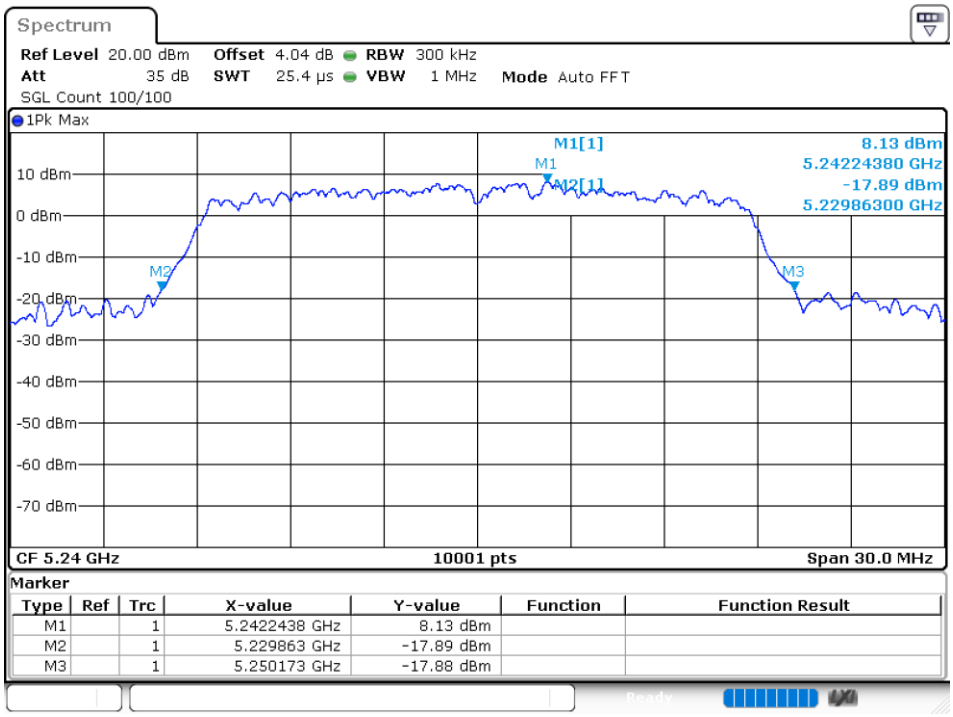
-26dB Bandwidth NVNT ac20 5180MHz Ant1



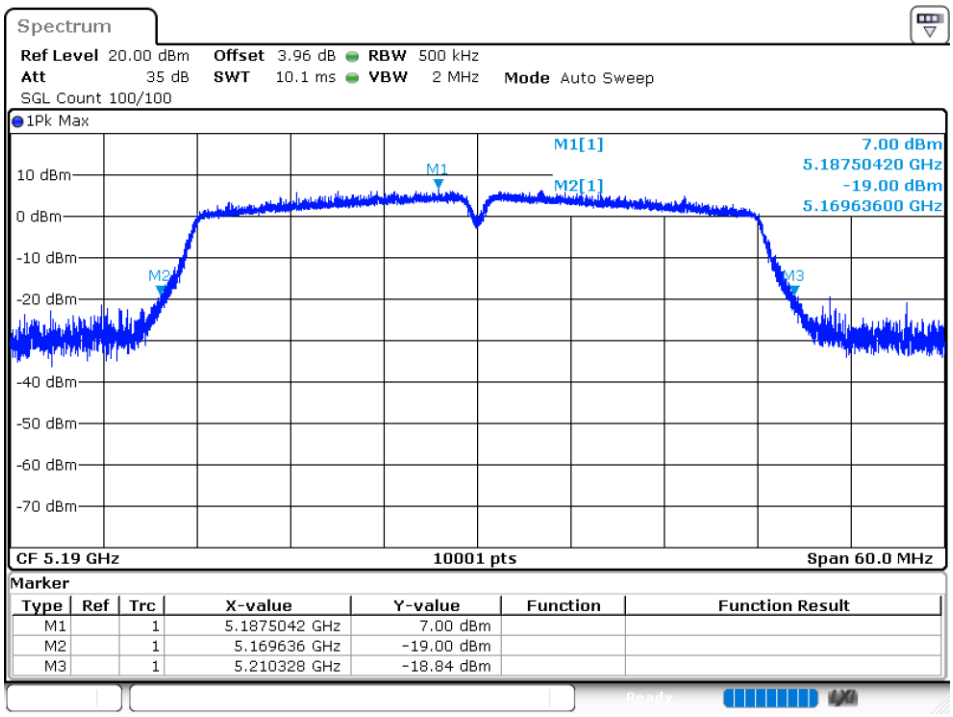
-26dB Bandwidth NVNT ac20 5200MHz Ant1



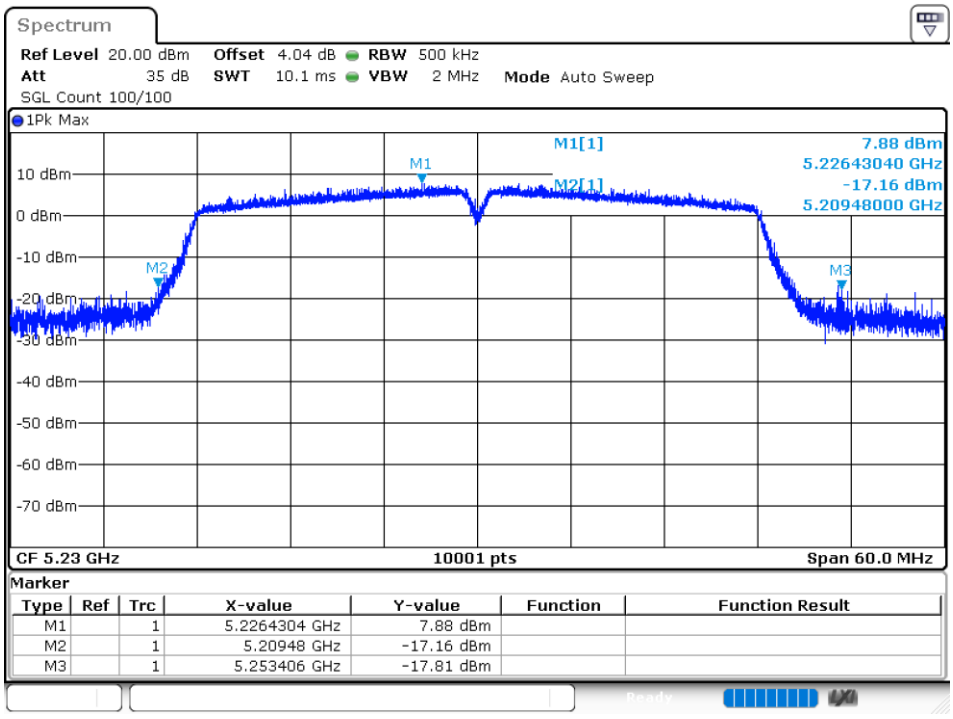
-26dB Bandwidth NVNT ac20 5240MHz Ant1



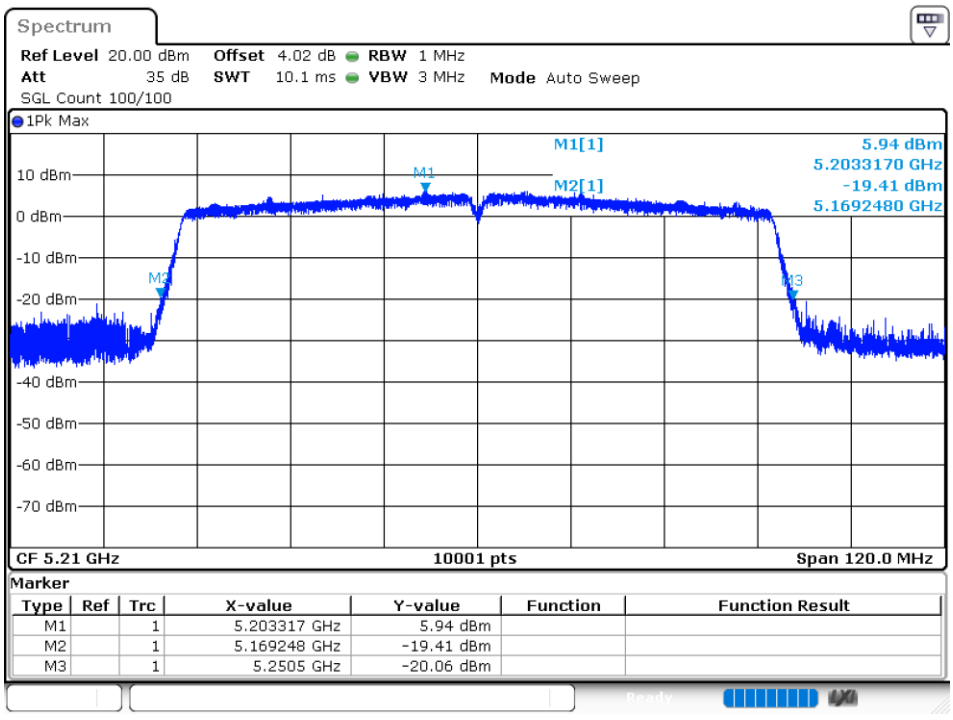
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



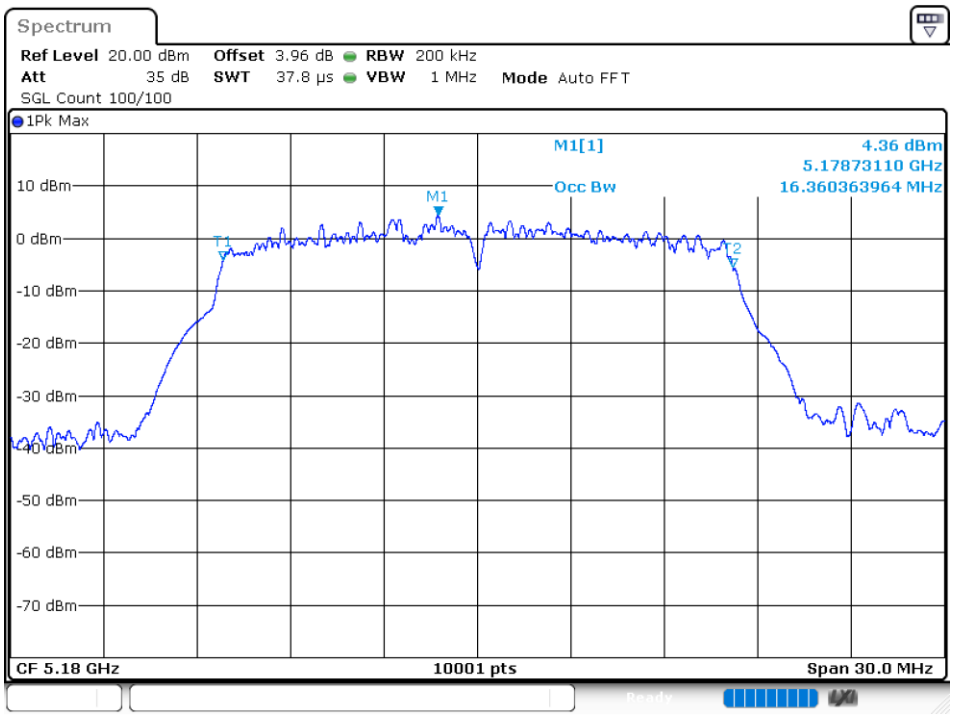
-26dB Bandwidth NVNT ac80 5210MHz Ant1



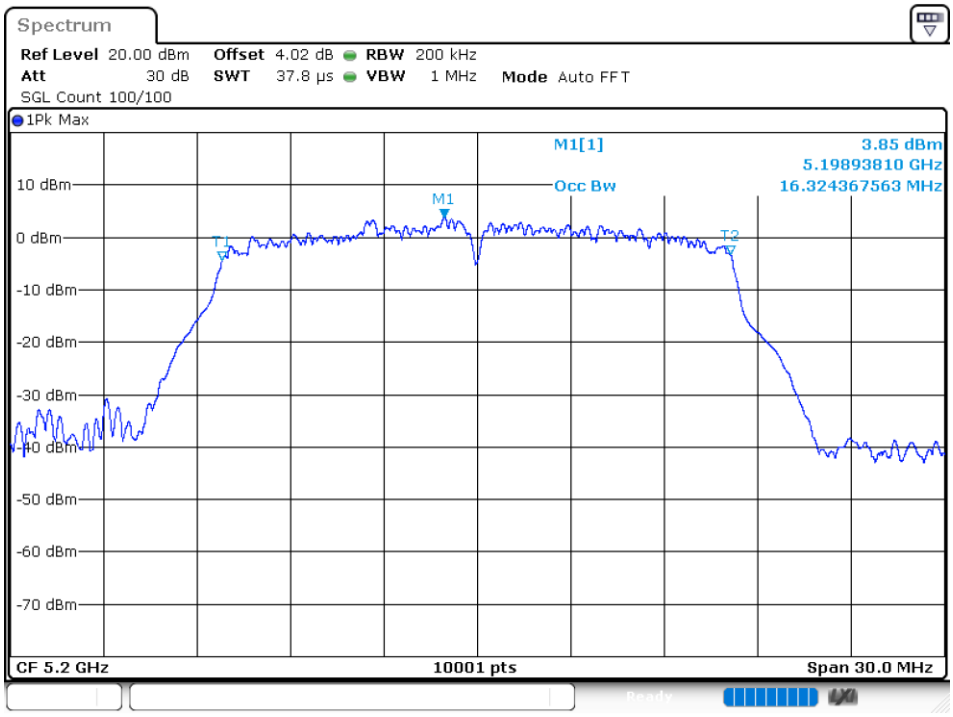
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.36
NVNT	a	5200	Ant1	16.324
NVNT	a	5240	Ant1	16.669
NVNT	n20	5180	Ant1	17.596
NVNT	n20	5200	Ant1	17.686
NVNT	n20	5240	Ant1	17.596
NVNT	n40	5190	Ant1	36.068
NVNT	n40	5230	Ant1	36.08
NVNT	ac20	5180	Ant1	17.521
NVNT	ac20	5200	Ant1	17.575
NVNT	ac20	5240	Ant1	17.62
NVNT	ac40	5190	Ant1	36.044
NVNT	ac40	5230	Ant1	36.068
NVNT	ac80	5210	Ant1	75.256

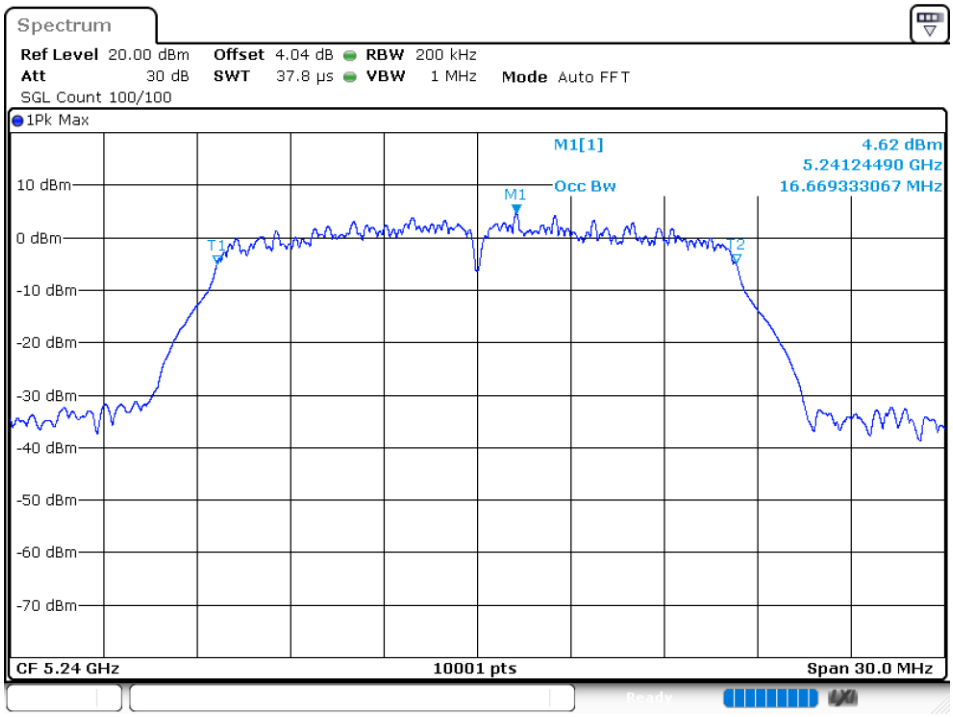
Test Graphs
OBW NVNT a 5180MHz Ant1



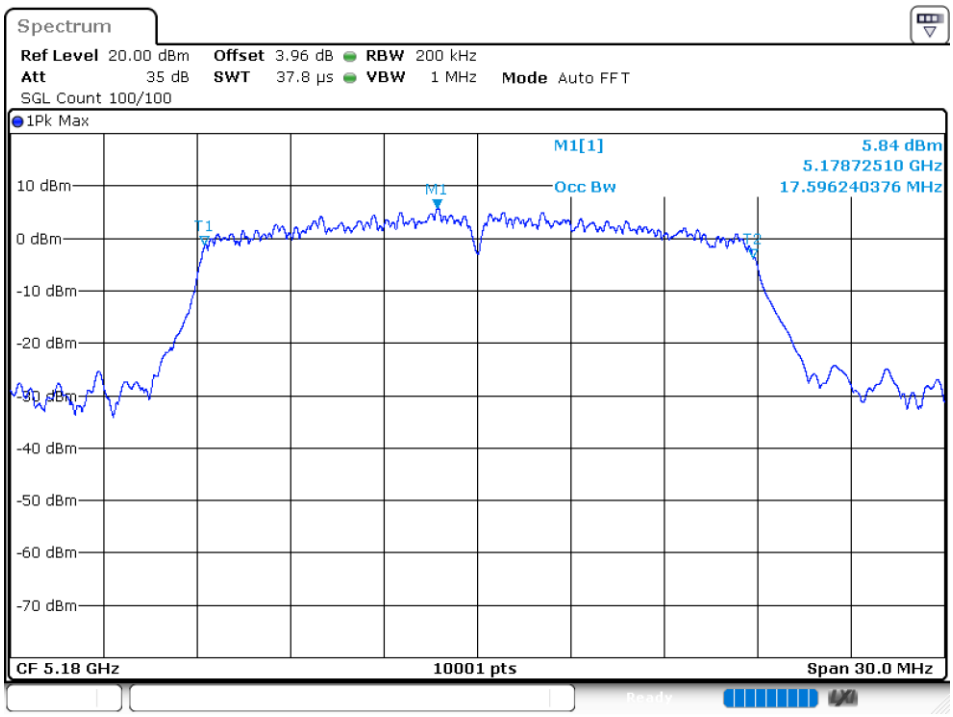
OBW NVNT a 5200MHz Ant1



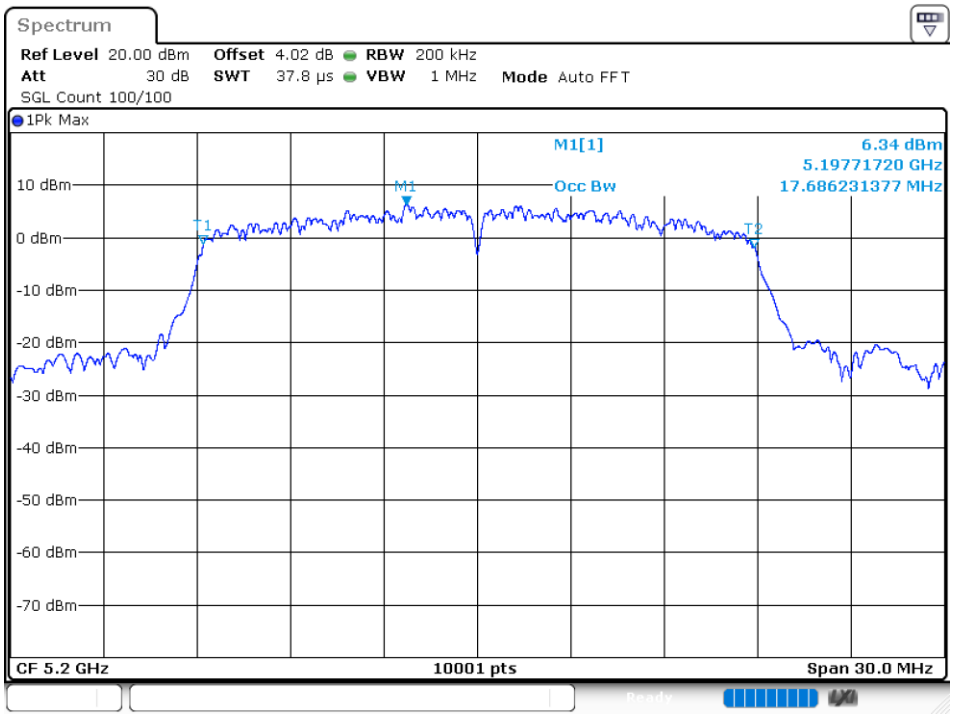
OBW NVNT a 5240MHz Ant1



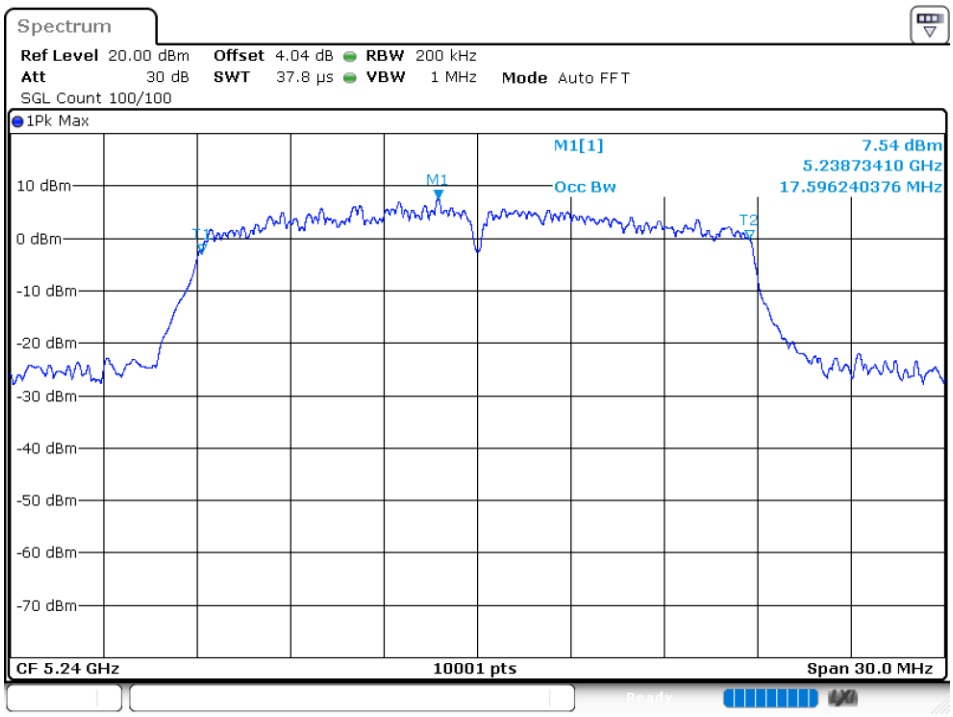
OBW NVNT n20 5180MHz Ant1



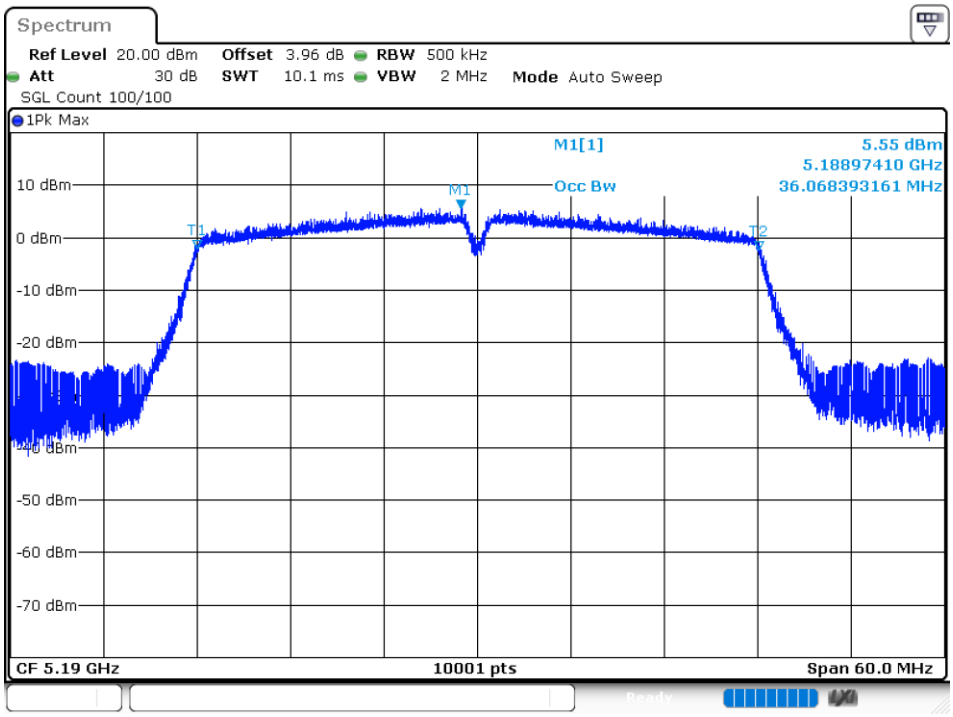
OBW NVNT n20 5200MHz Ant1



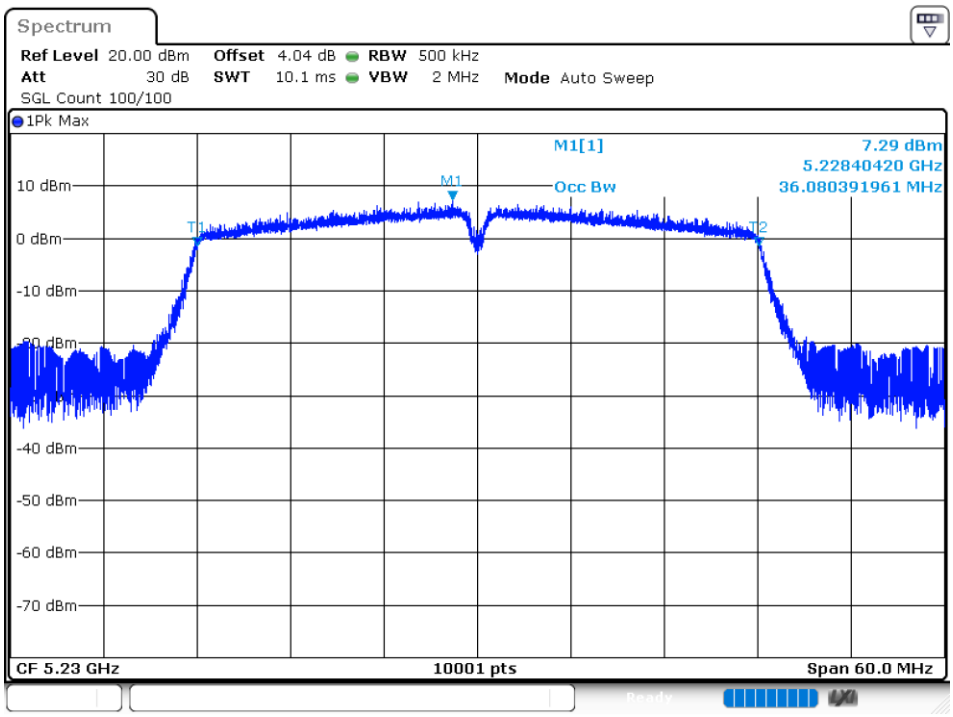
OBW NVNT n20 5240MHz Ant1



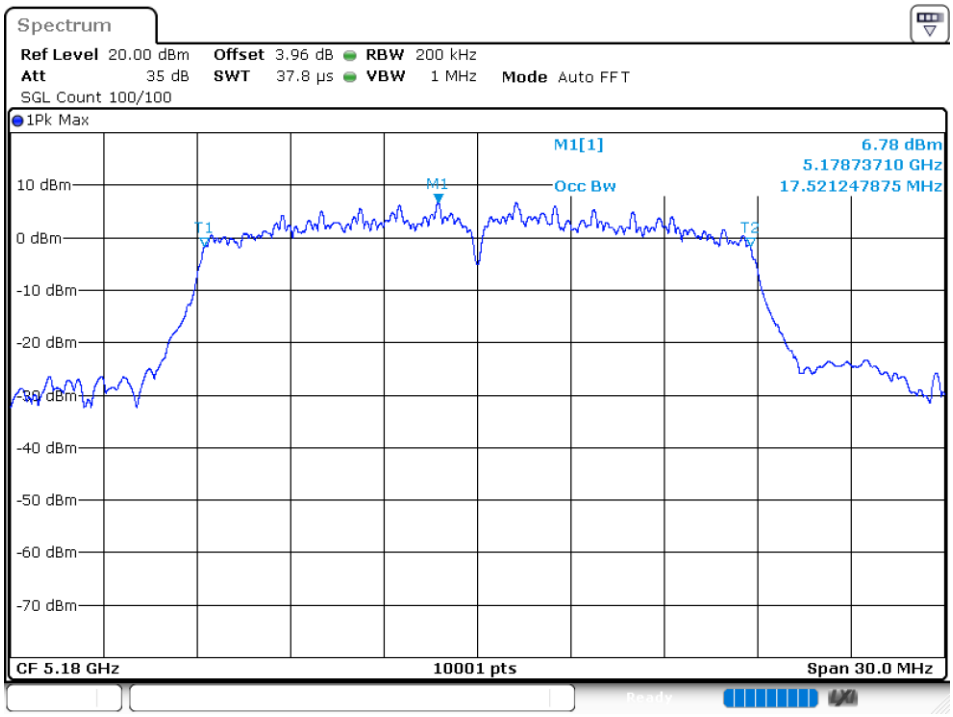
OBW NVNT n40 5190MHz Ant1



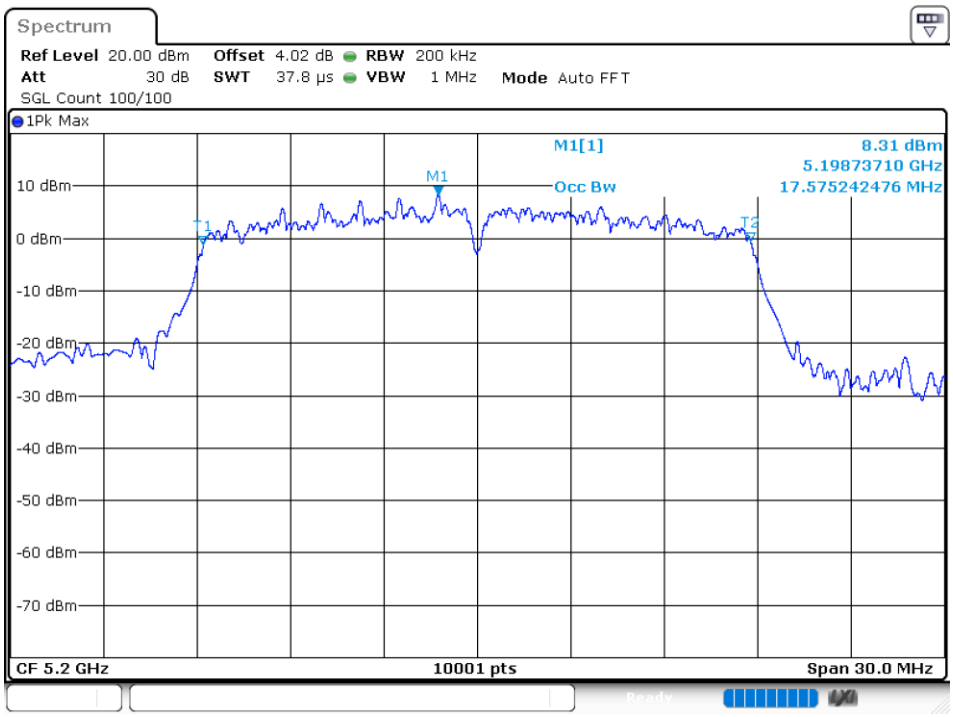
OBW NVNT n40 5230MHz Ant1



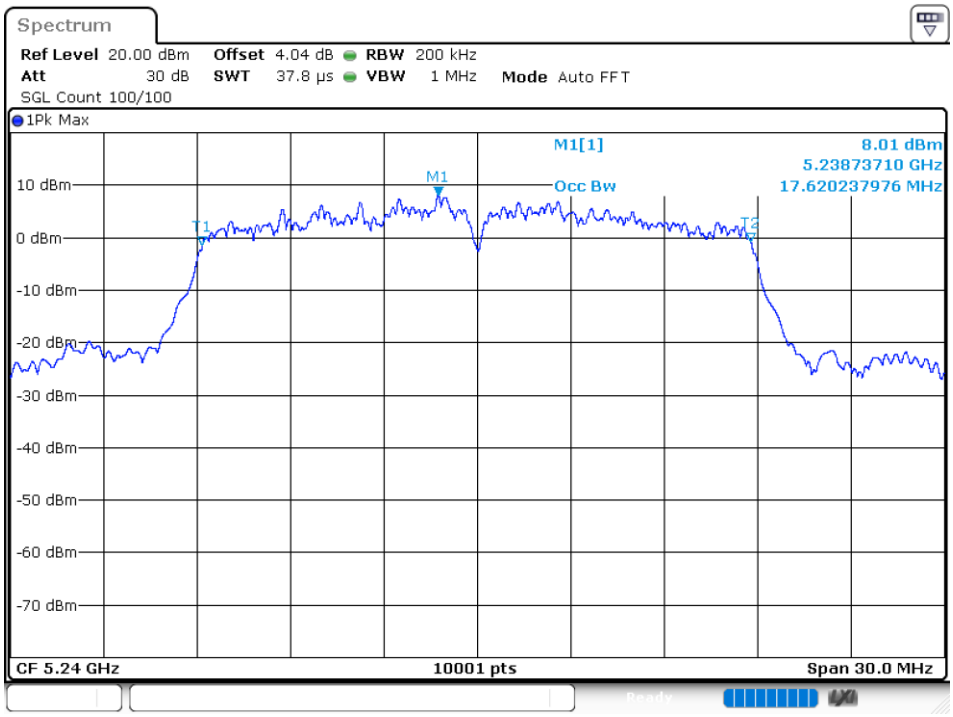
OBW NVNT ac20 5180MHz Ant1



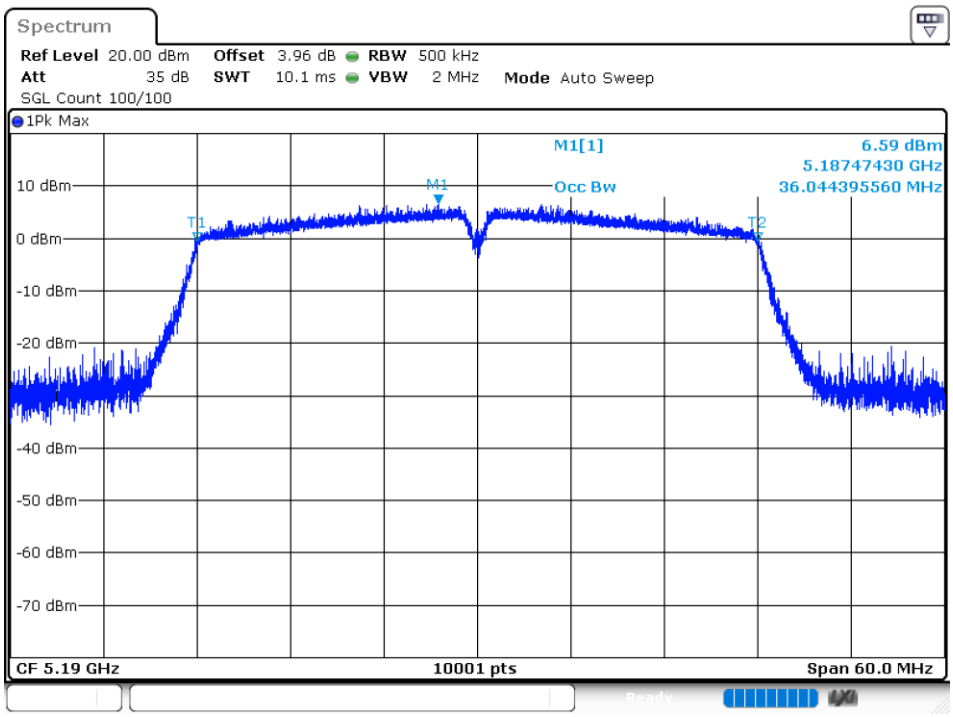
OBW NVNT ac20 5200MHz Ant1



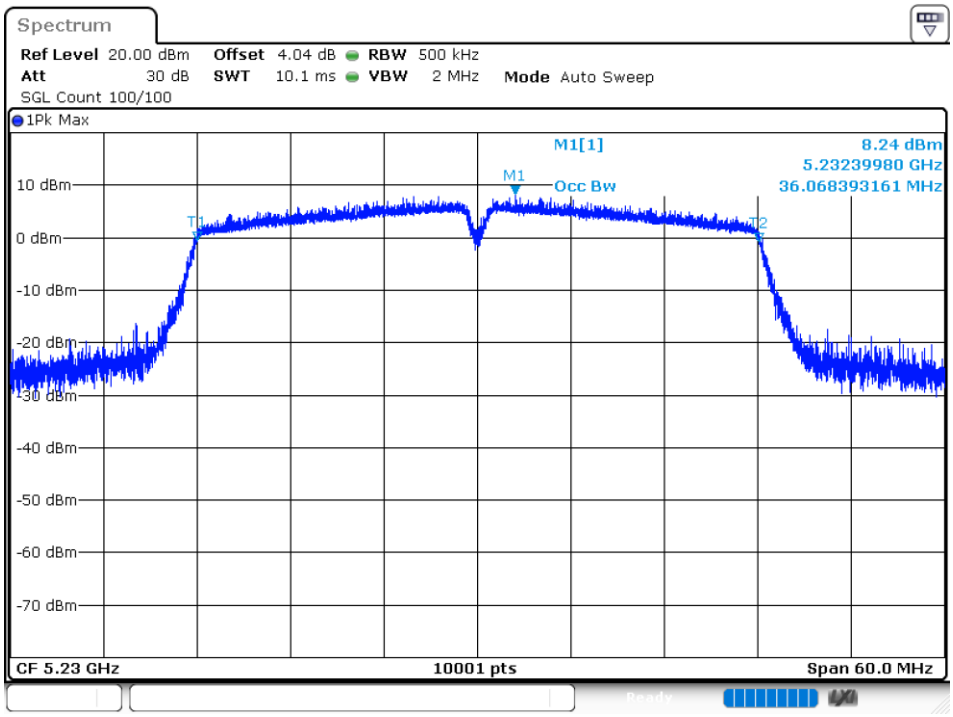
OBW NVNT ac20 5240MHz Ant1



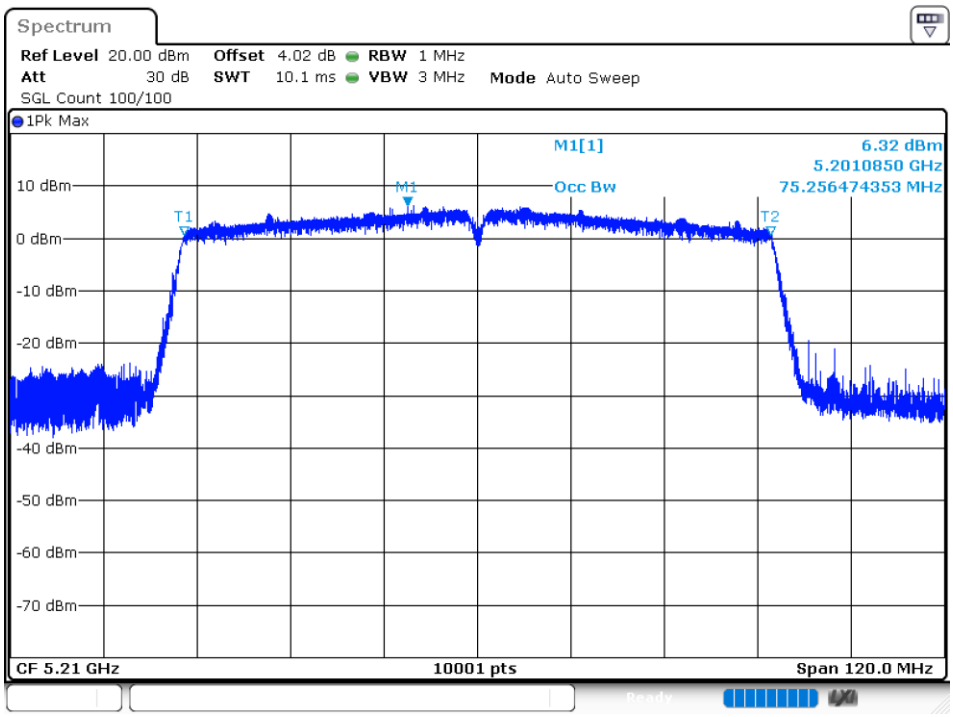
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



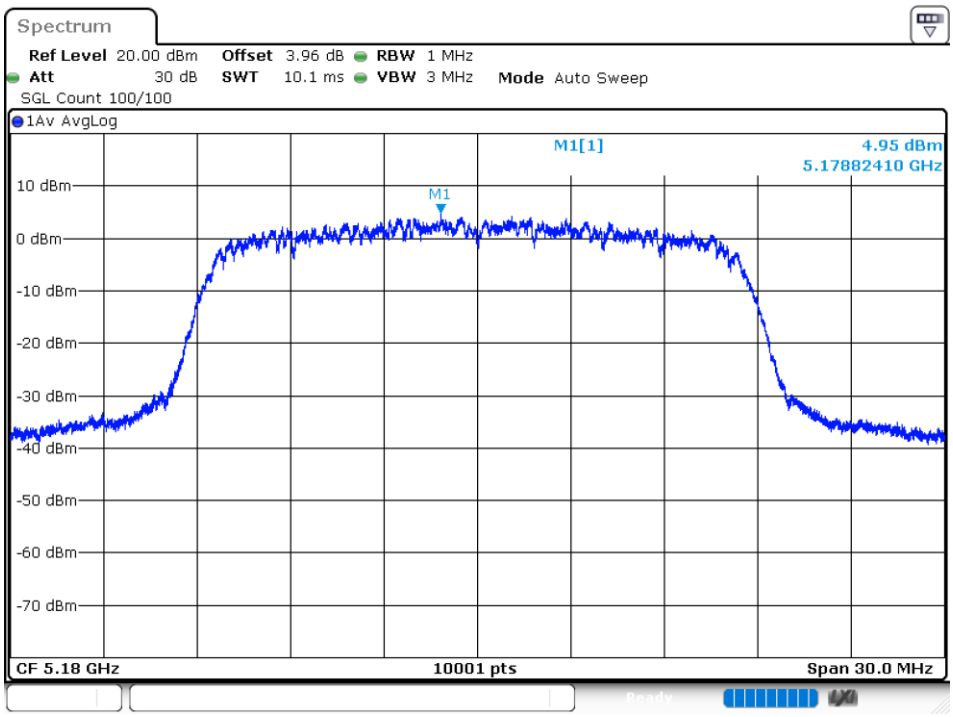
OBW NVNT ac80 5210MHz Ant1



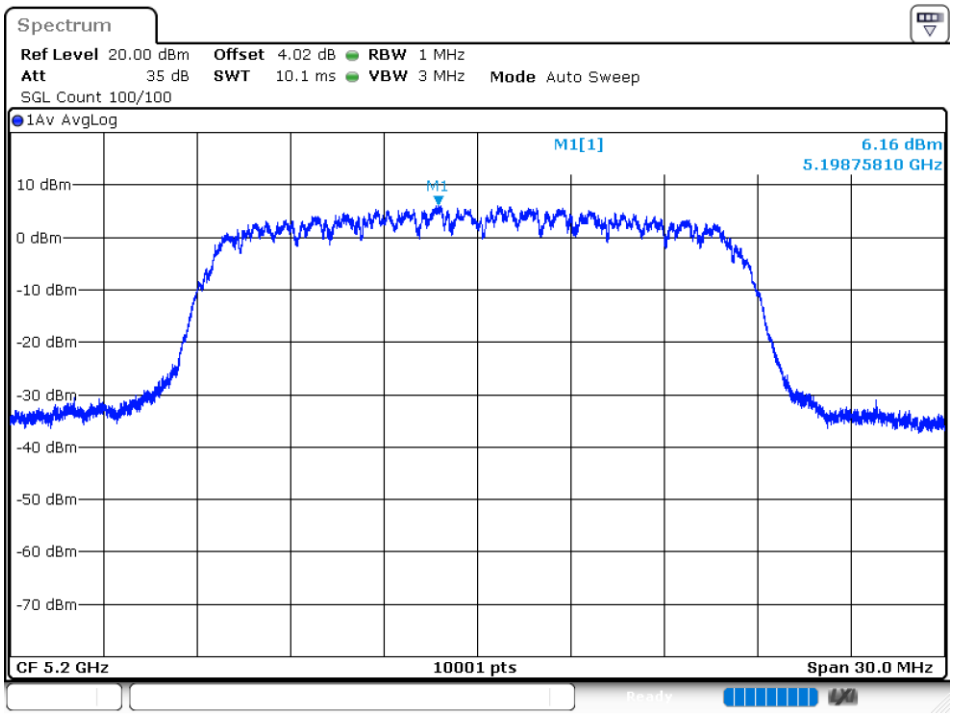
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	4.95	0.08	5.03	11	Pass
NVNT	a	5200	Ant1	6.16	0.08	6.24	11	Pass
NVNT	a	5240	Ant1	5.86	0.08	5.94	11	Pass
NVNT	n20	5180	Ant1	4.92	0.08	5.00	11	Pass
NVNT	n20	5200	Ant1	5.43	0.08	5.51	11	Pass
NVNT	n20	5240	Ant1	5.93	0.09	6.02	11	Pass
NVNT	n40	5190	Ant1	-1.1	0.32	-0.78	11	Pass
NVNT	n40	5230	Ant1	0.43	0.2	0.63	11	Pass
NVNT	ac20	5180	Ant1	4.92	0.08	5.00	11	Pass
NVNT	ac20	5200	Ant1	5.93	0.08	6.01	11	Pass
NVNT	ac20	5240	Ant1	5.43	0.09	5.52	11	Pass
NVNT	ac40	5190	Ant1	-3.63	0.2	-3.43	11	Pass
NVNT	ac40	5230	Ant1	-0.47	0.23	-0.24	11	Pass
NVNT	ac80	5210	Ant1	-7.87	0.67	-7.20	11	Pass

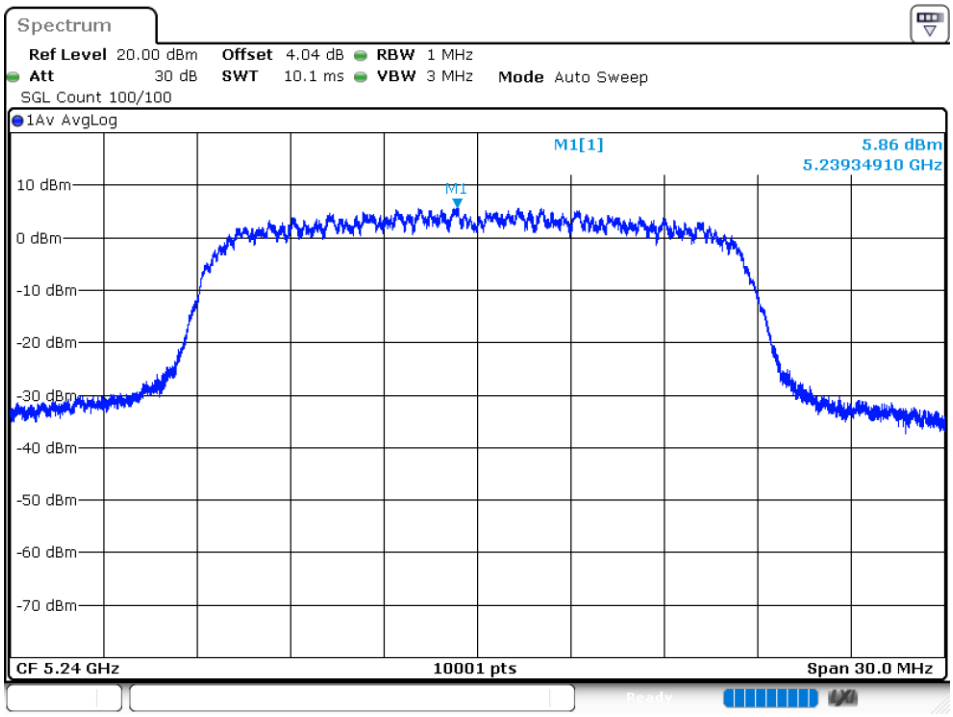
Test Graphs
PSD NVNT a 5180MHz Ant1



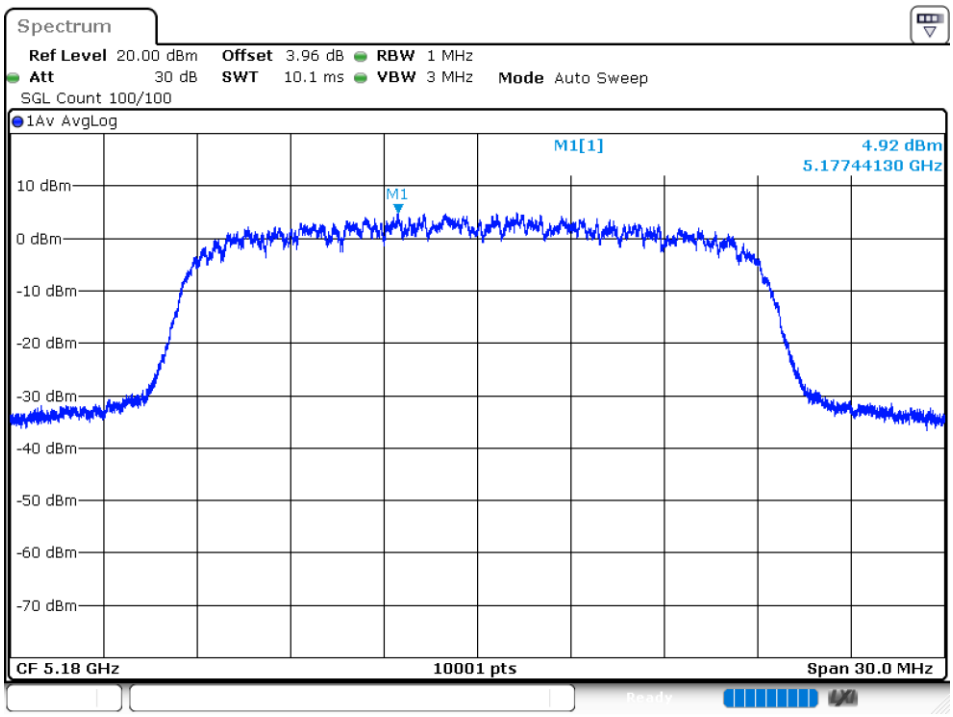
PSD NVNT a 5200MHz Ant1



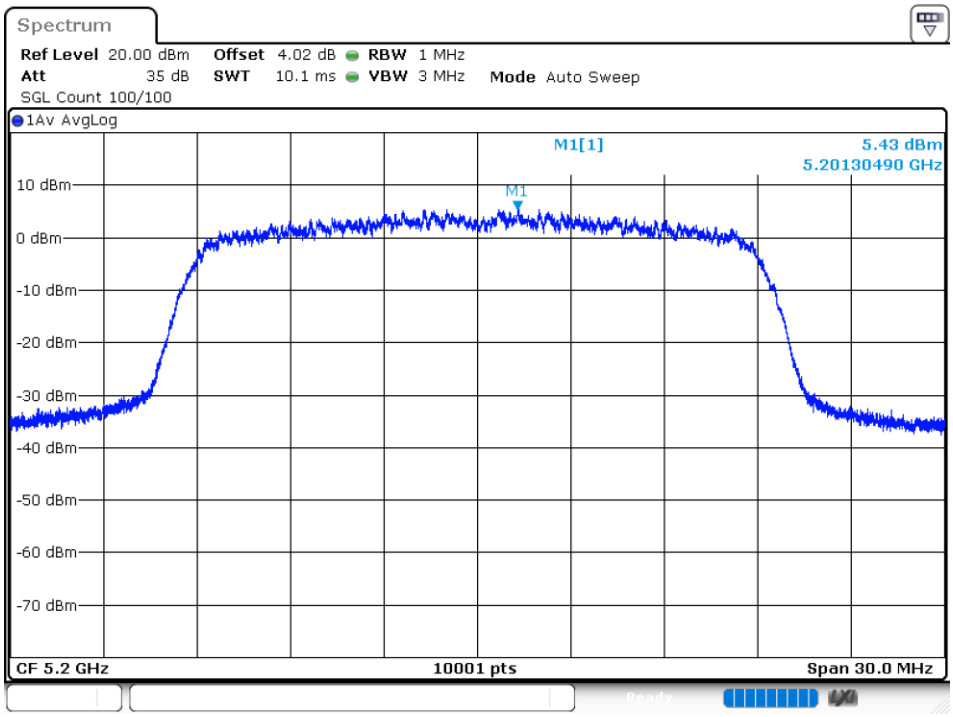
PSD NVNT a 5240MHz Ant1



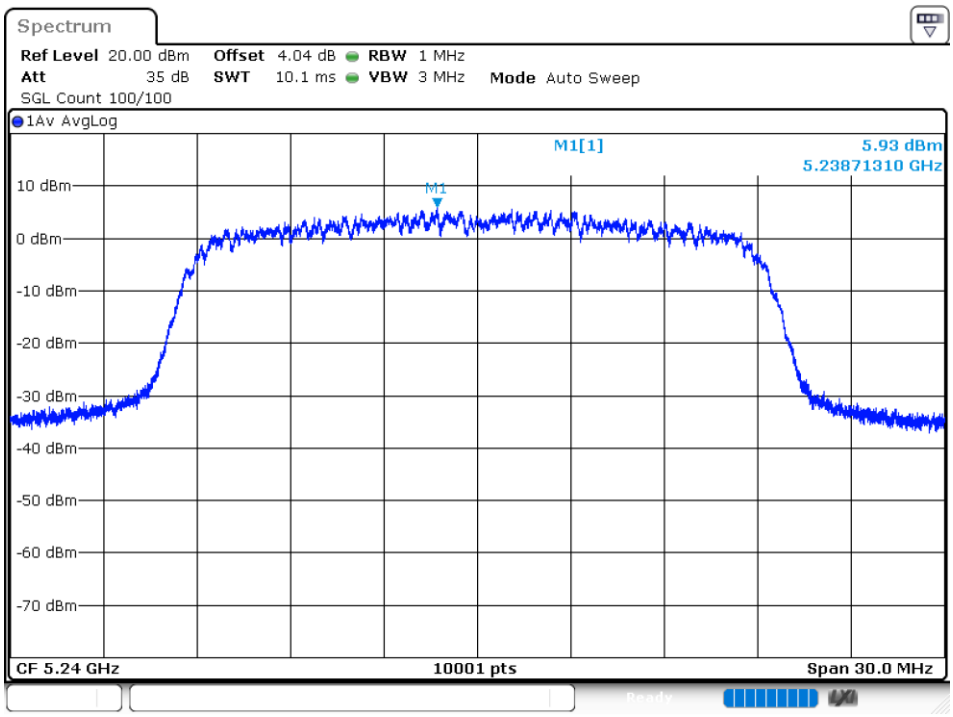
PSD NVNT n20 5180MHz Ant1



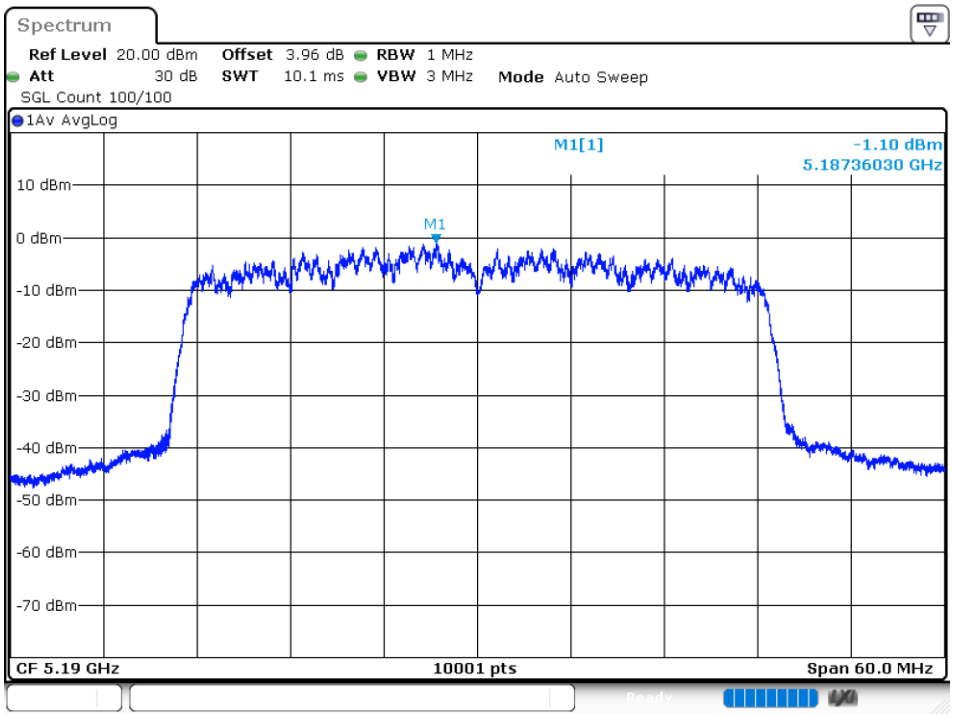
PSD NVNT n20 5200MHz Ant1



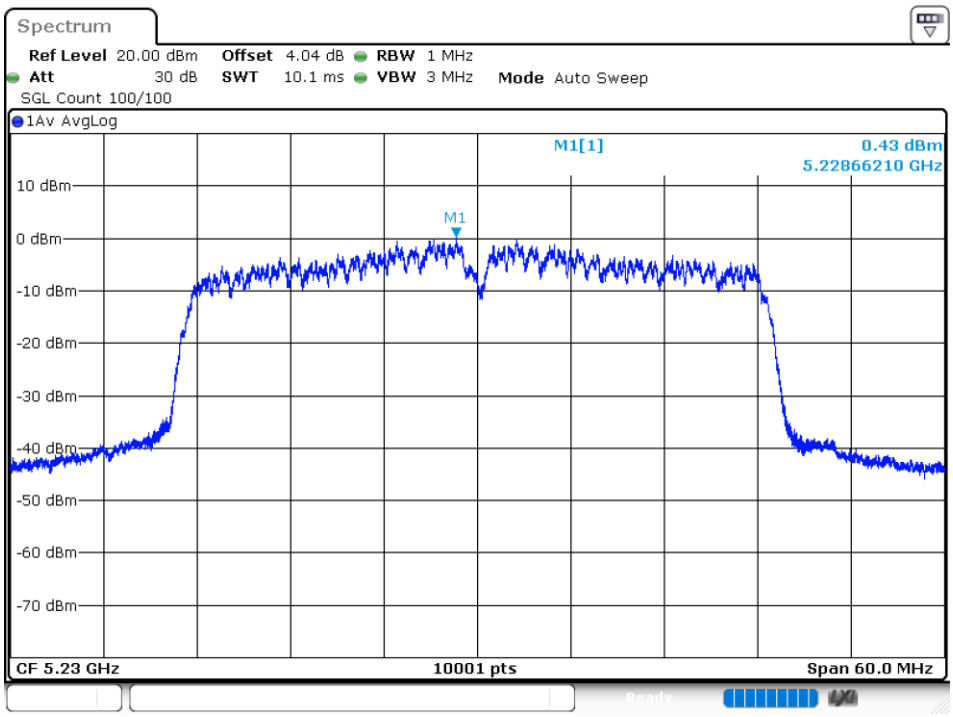
PSD NVNT n20 5240MHz Ant1



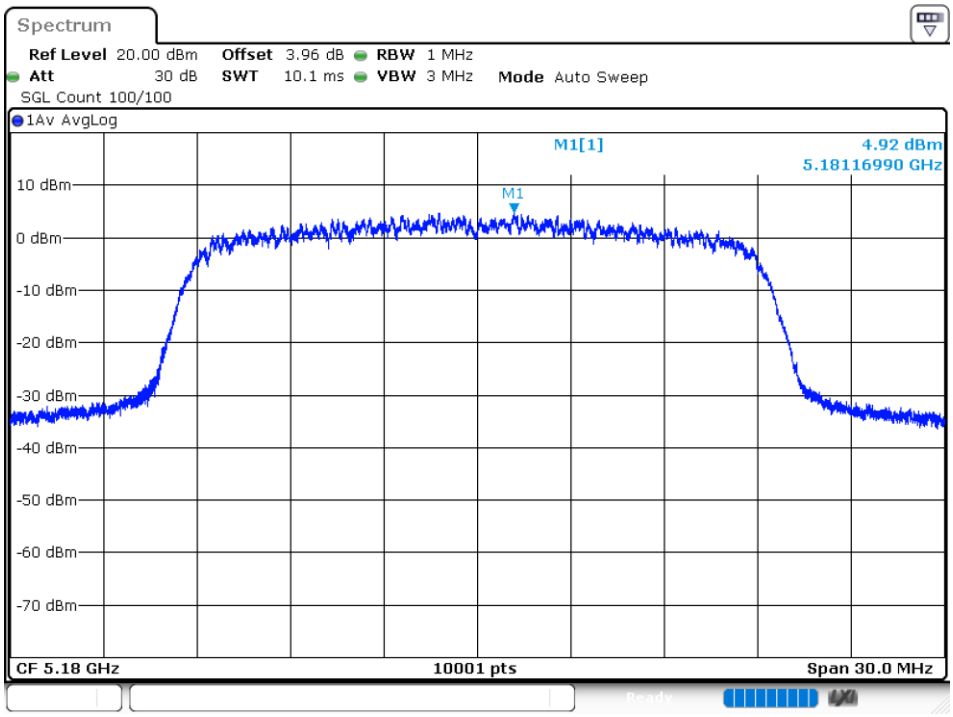
PSD NVNT n40 5190MHz Ant1



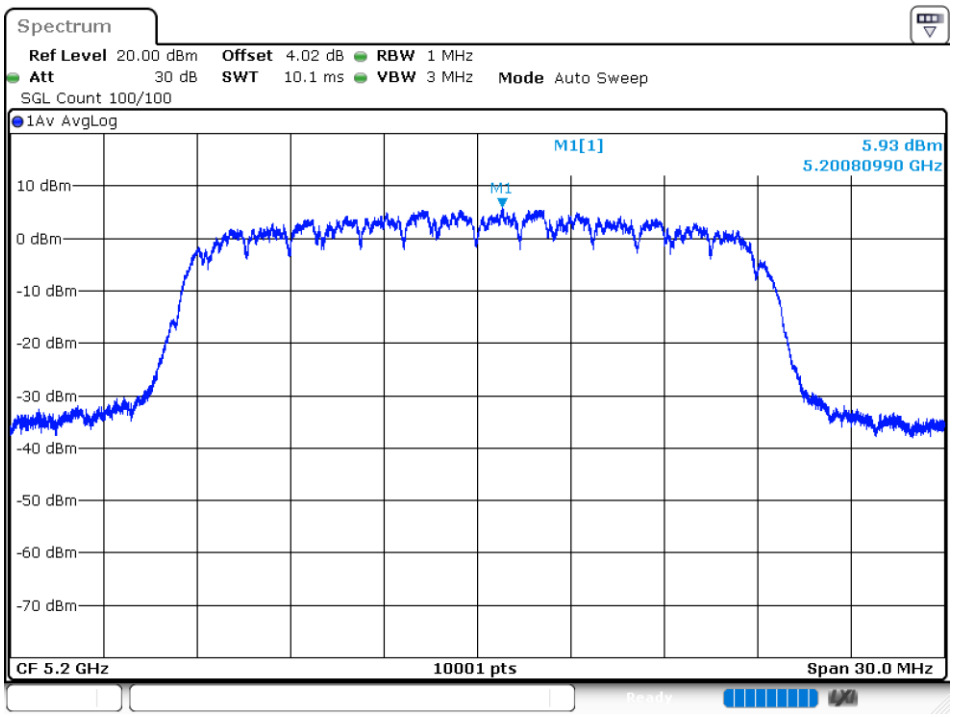
PSD NVNT n40 5230MHz Ant1



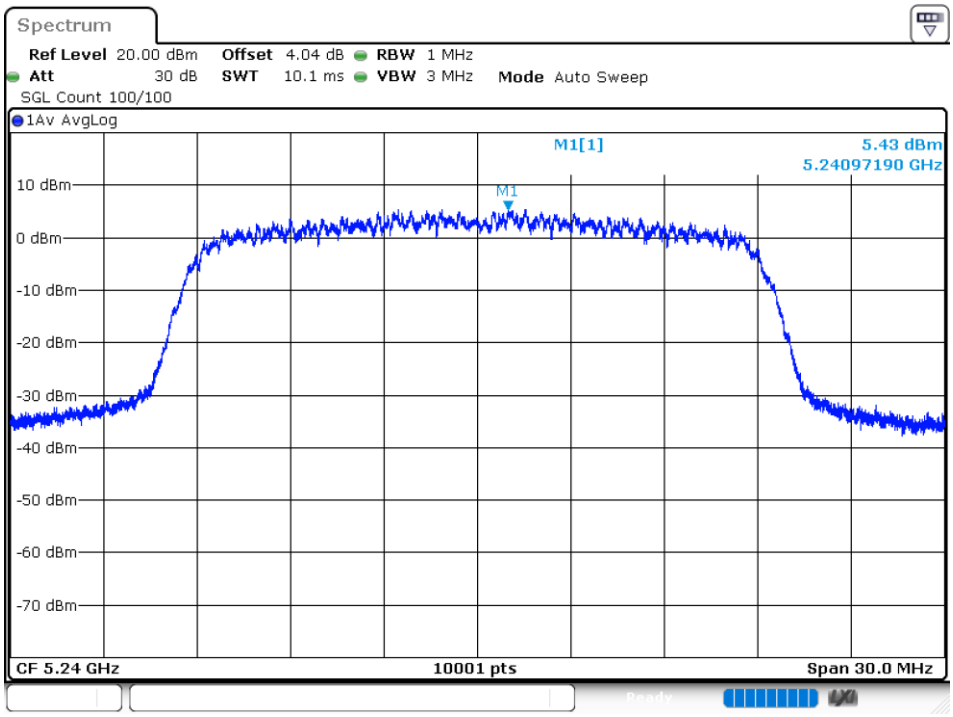
PSD NVNT ac20 5180MHz Ant1



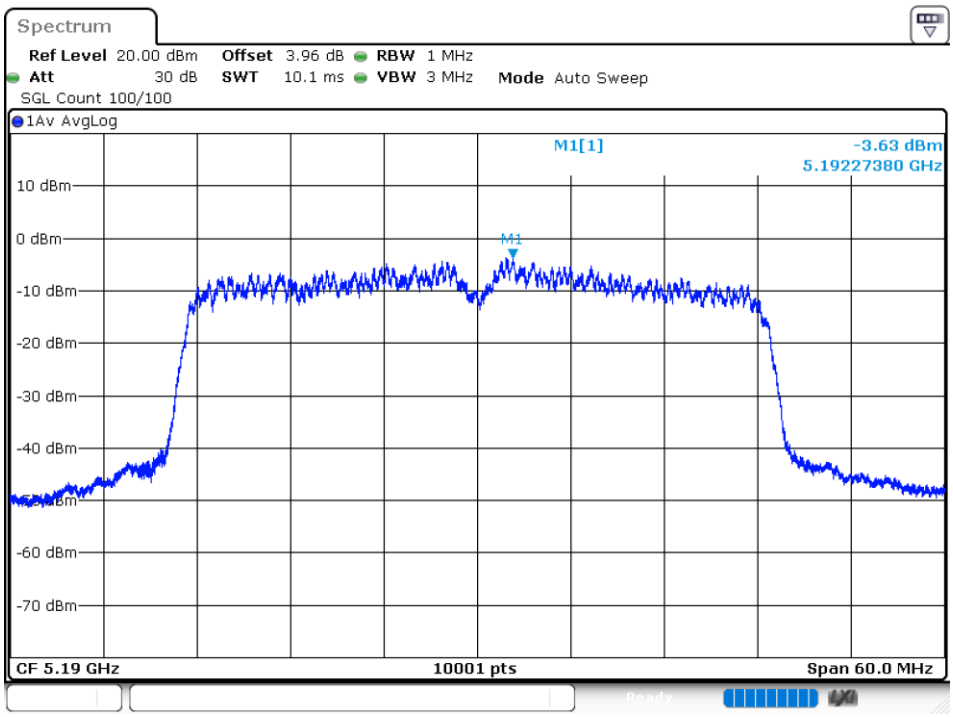
PSD NVNT ac20 5200MHz Ant1



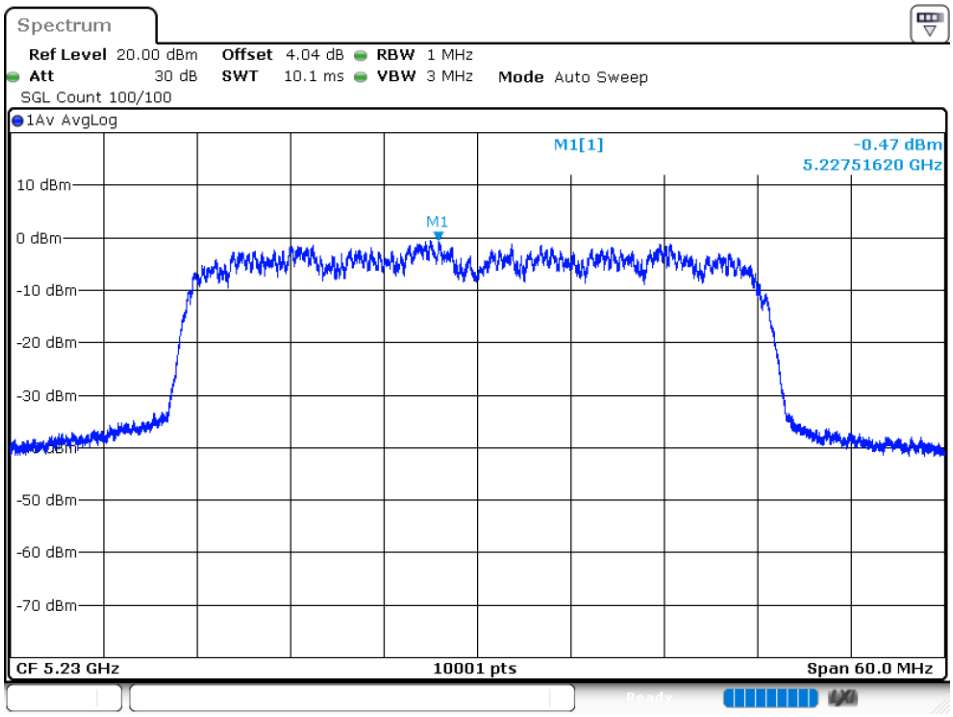
PSD NVNT ac20 5240MHz Ant1



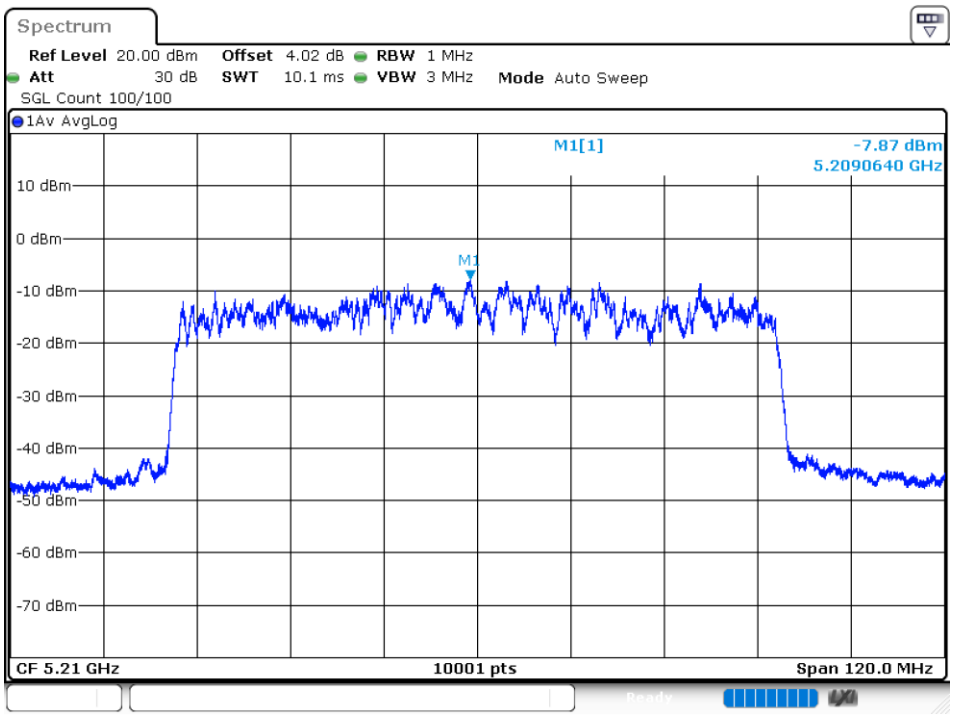
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



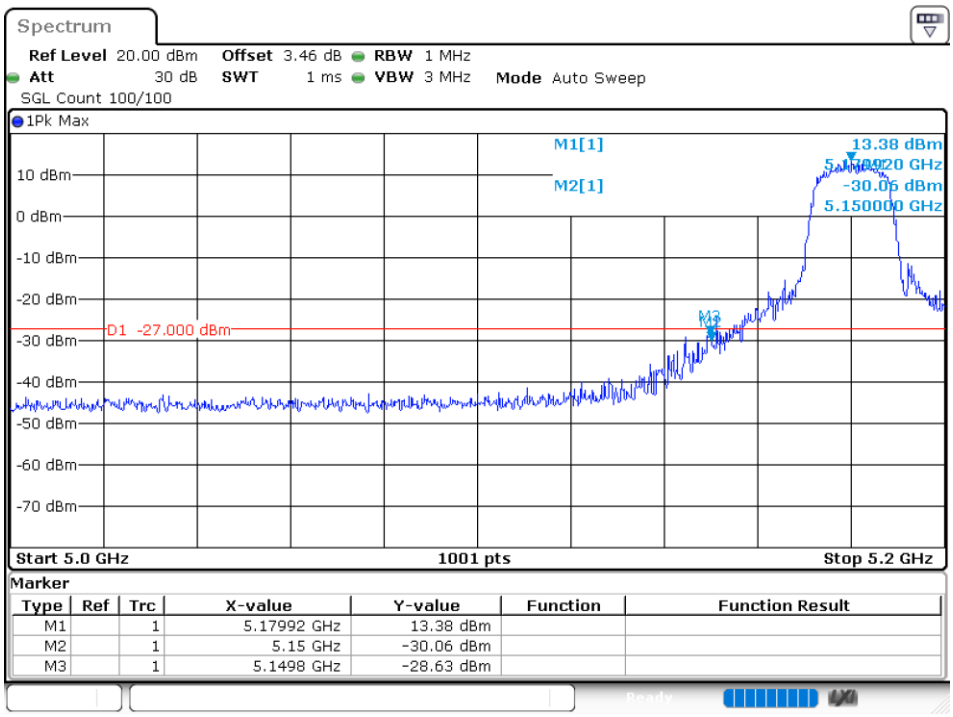
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-28.62	-27	Pass
NVNT	a	5240	Ant1	-41.74	-27	Pass
NVNT	n20	5180	Ant1	-27.27	-27	Pass
NVNT	n20	5240	Ant1	-42.86	-27	Pass
NVNT	n40	5190	Ant1	-28.78	-27	Pass
NVNT	n40	5230	Ant1	-41.94	-27	Pass
NVNT	ac20	5180	Ant1	-27.27	-27	Pass
NVNT	ac20	5240	Ant1	-42.58	-27	Pass
NVNT	ac40	5190	Ant1	-28.78	-27	Pass
NVNT	ac40	5230	Ant1	-42.54	-27	Pass
NVNT	ac80	5210	Ant1	-27.12	-27	Pass
NVNT	ac80	5210	Ant1	-39.54	-27	Pass

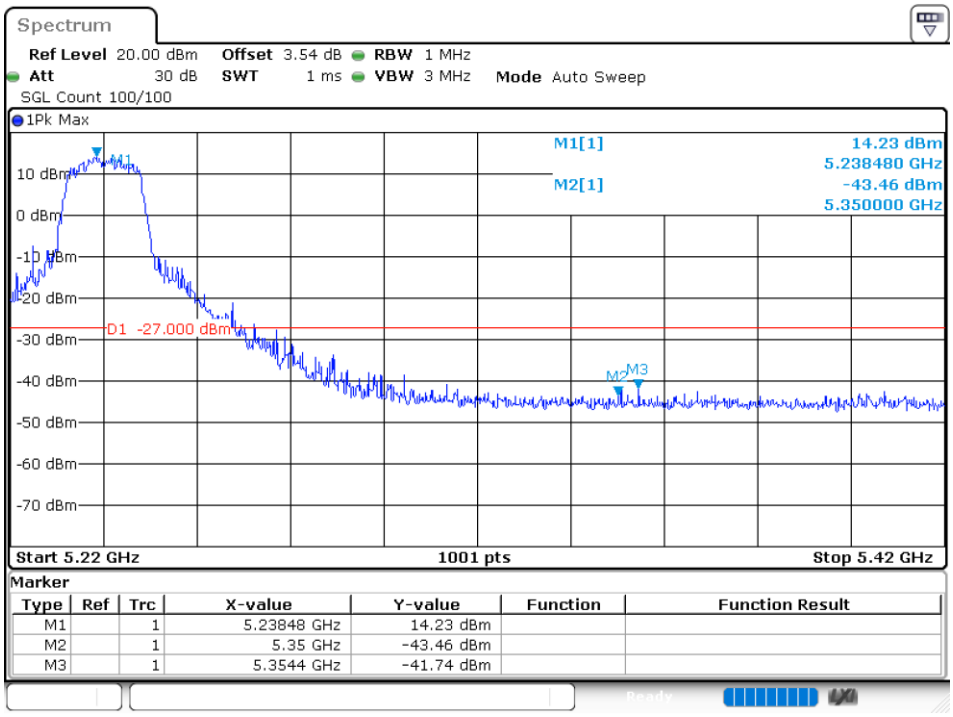
Note: This test has increased antenna gain.

Test Graphs

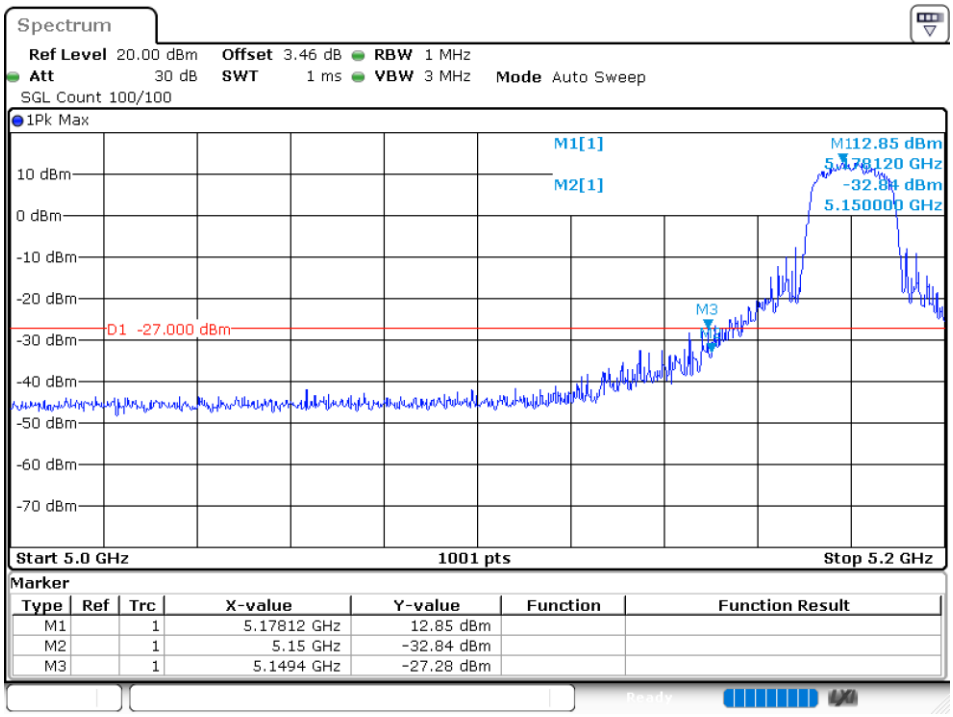
Band Edge NVNT a 5180MHz Low Ant1



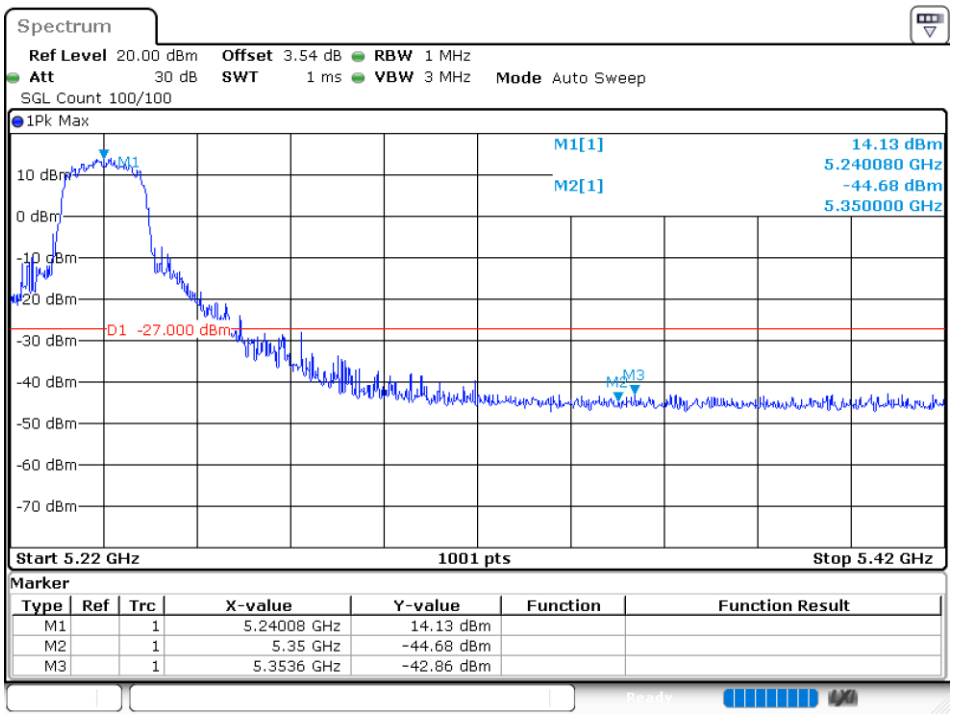
Band Edge NVNT a 5240MHz High Ant1



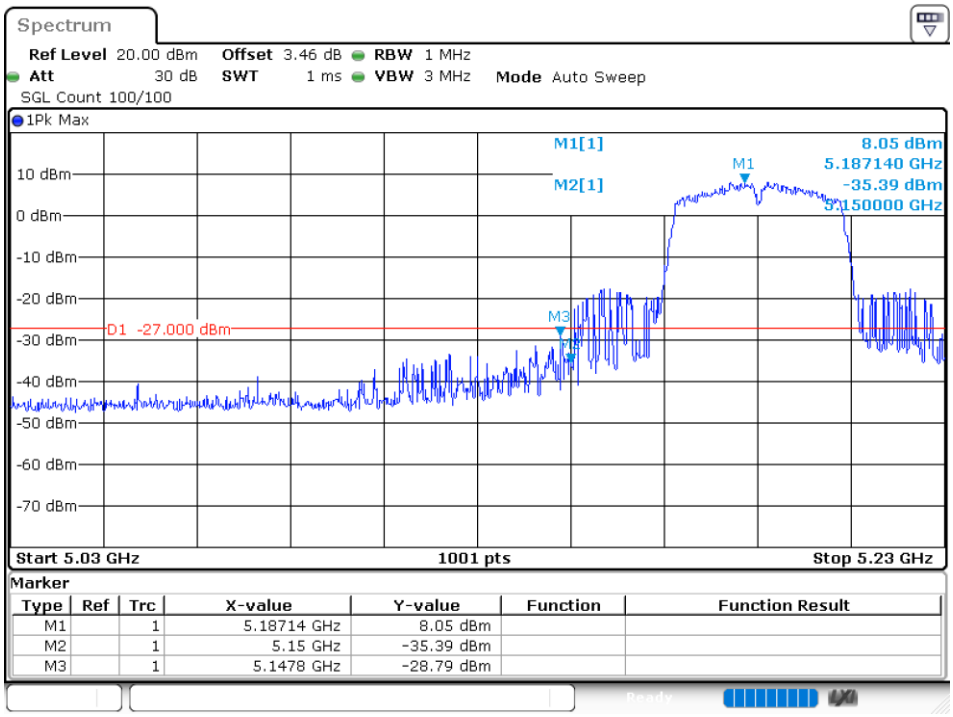
Band Edge NVNT n20 5180MHz Low Ant1



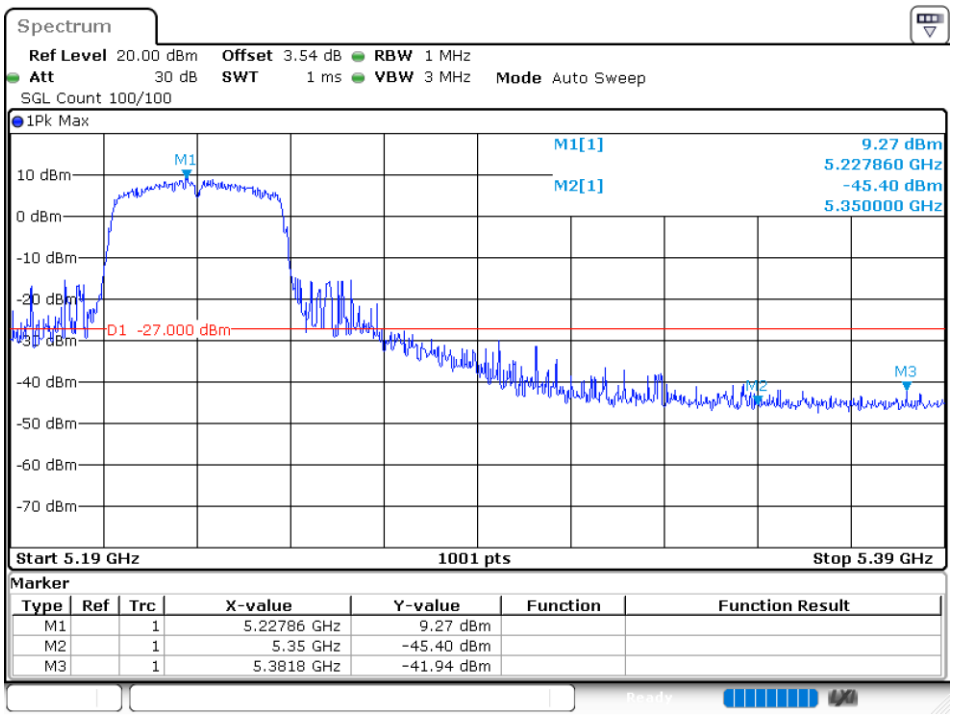
Band Edge NVNT n20 5240MHz High Ant1



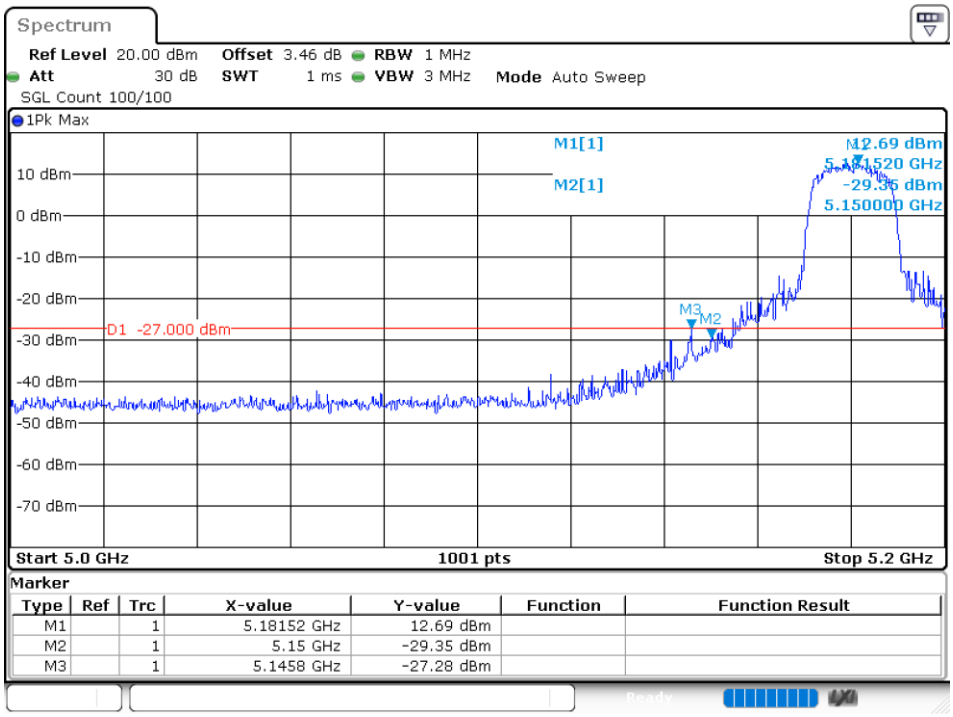
Band Edge NVNT n40 5190MHz Low Ant1



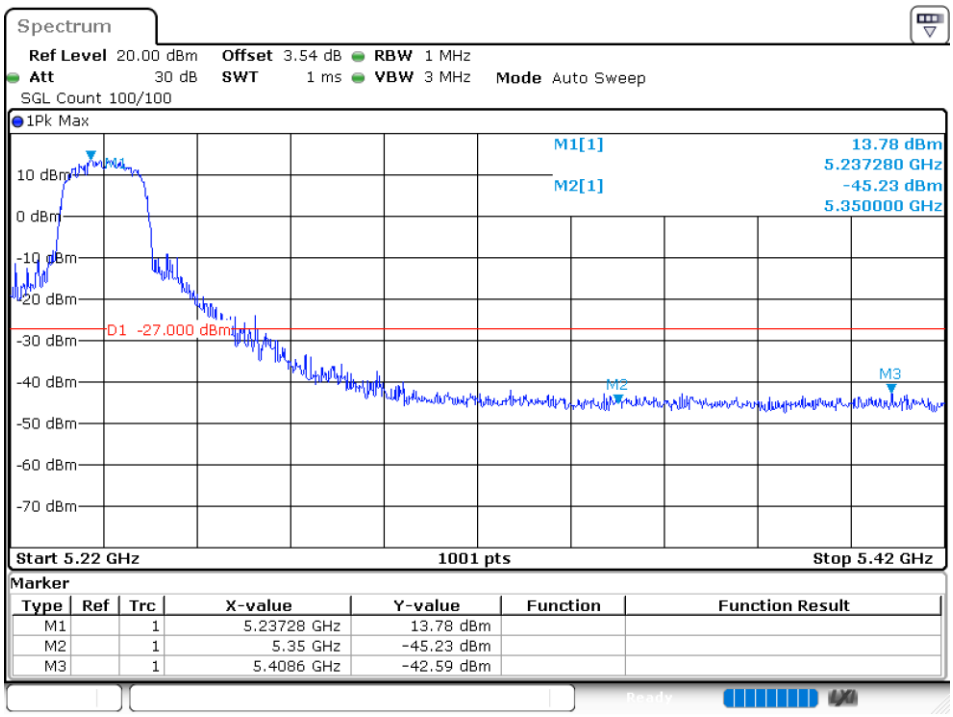
Band Edge NVNT n40 5230MHz High Ant1



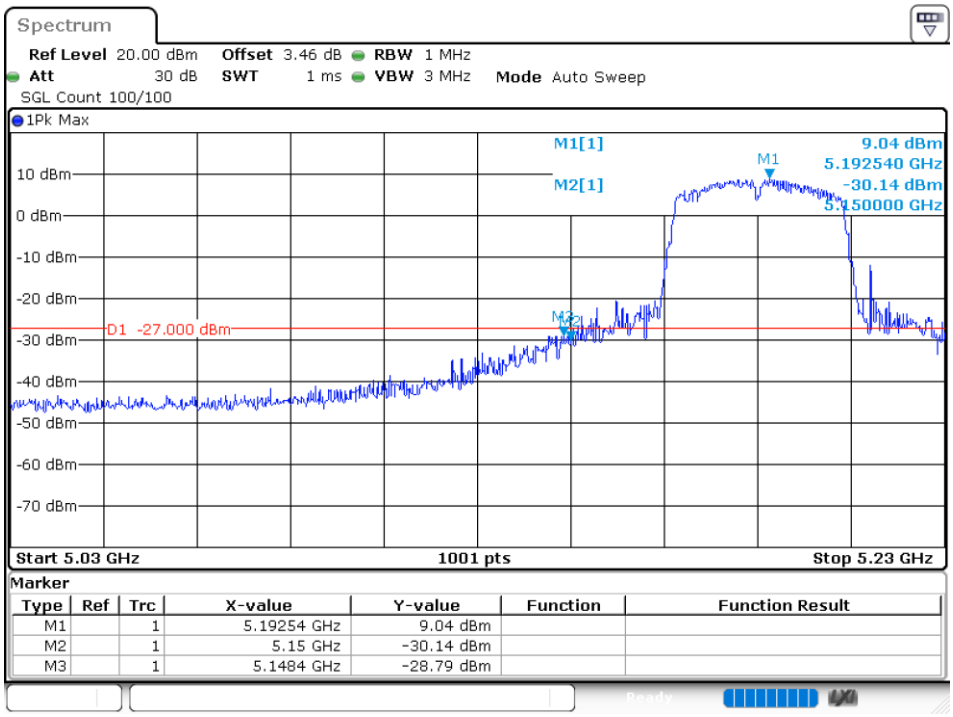
Band Edge NVNT ac20 5180MHz Low Ant1



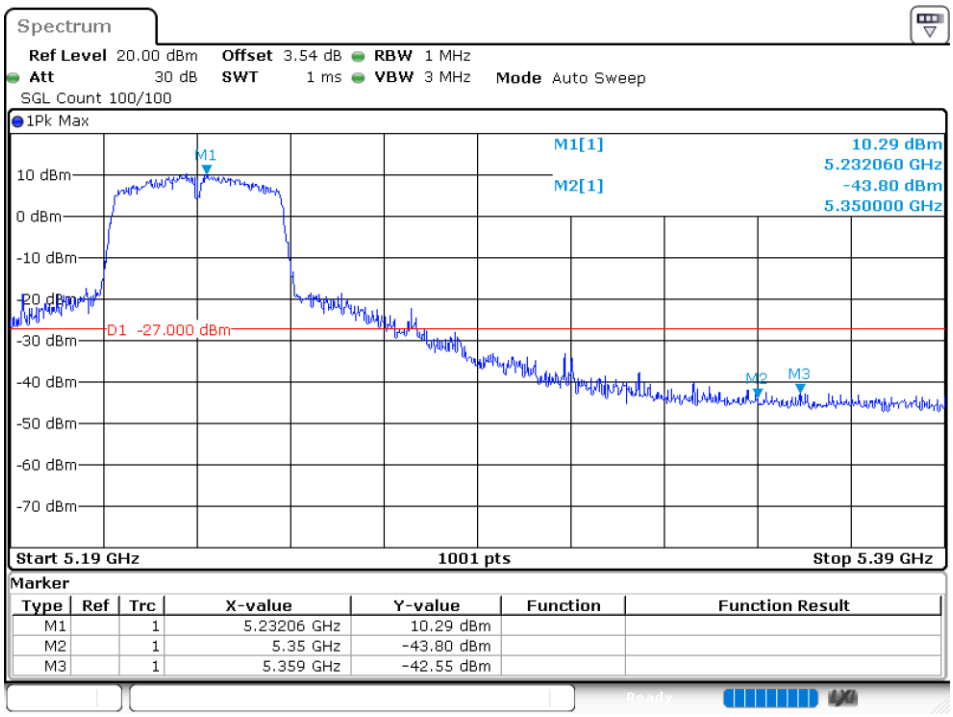
Band Edge NVNT ac20 5240MHz High Ant1



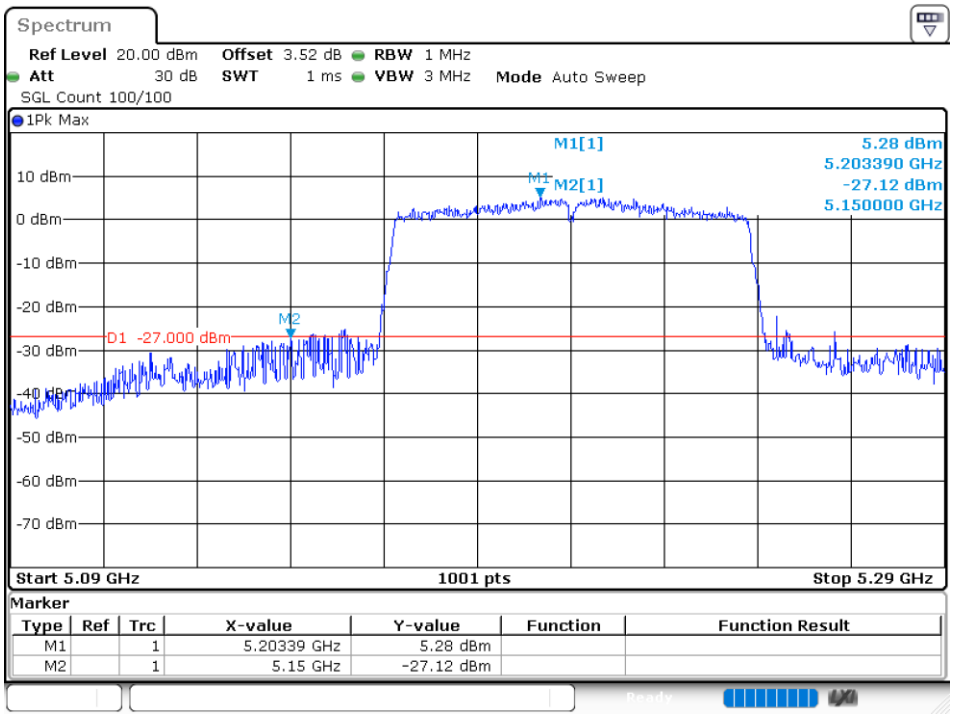
Band Edge NVNT ac40 5190MHz Low Ant1



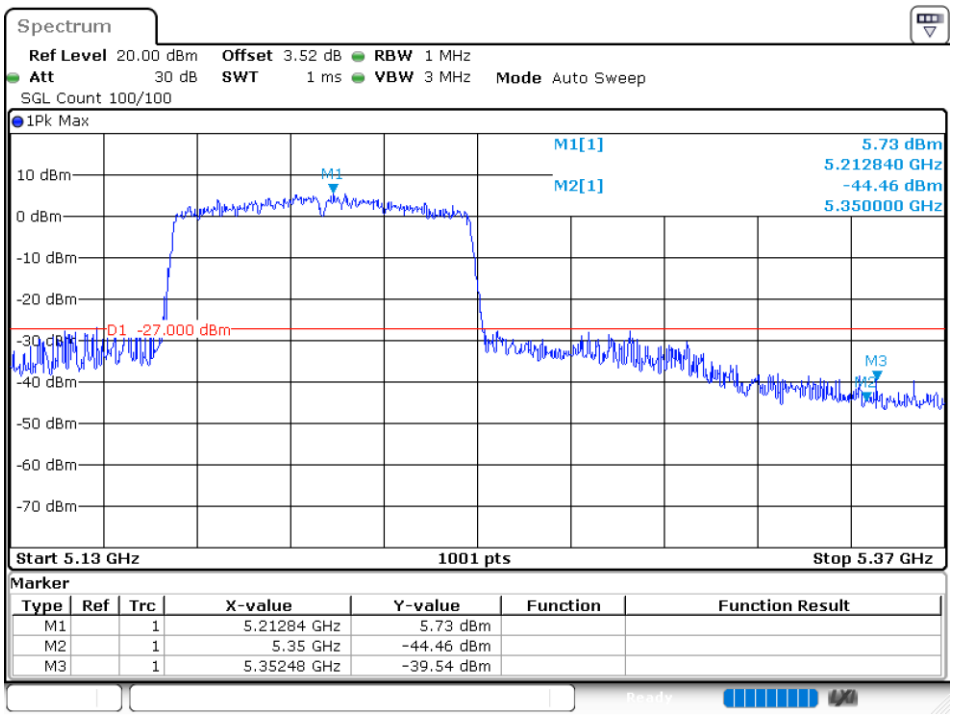
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1



Band Edge NVNT ac80 5210MHz High Ant1



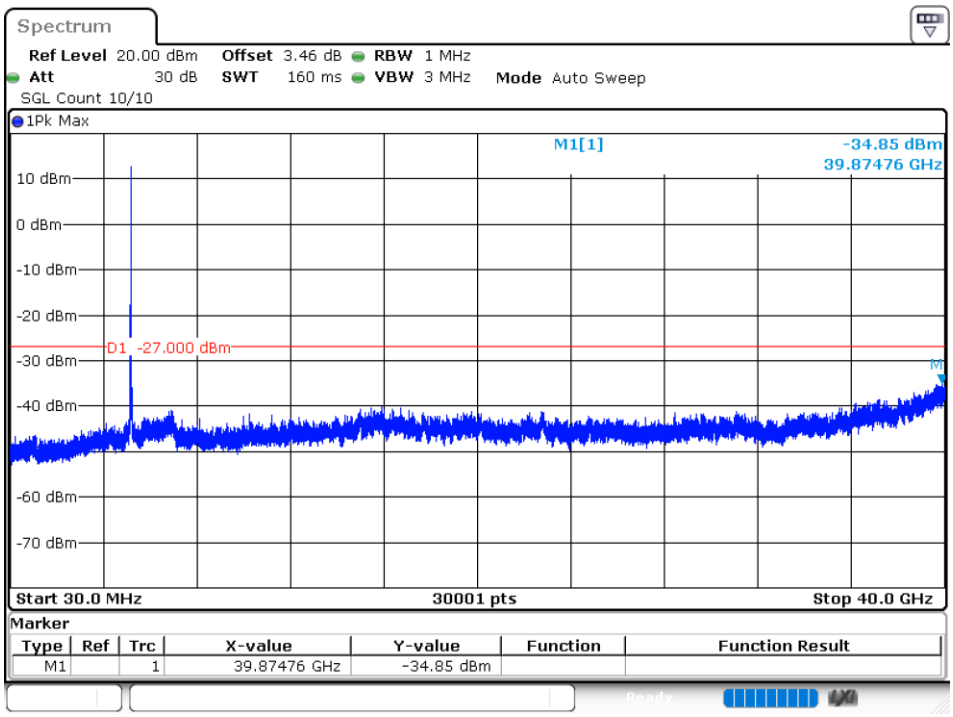
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-34.85	-27	Pass
NVNT	a	5200	Ant1	-34.9	-27	Pass
NVNT	a	5240	Ant1	-33.64	-27	Pass
NVNT	n20	5180	Ant1	-34.52	-27	Pass
NVNT	n20	5200	Ant1	-34.07	-27	Pass
NVNT	n20	5240	Ant1	-34.84	-27	Pass
NVNT	n40	5190	Ant1	-34.55	-27	Pass
NVNT	n40	5230	Ant1	-34.62	-27	Pass
NVNT	ac20	5180	Ant1	-35.07	-27	Pass
NVNT	ac20	5200	Ant1	-34.97	-27	Pass
NVNT	ac20	5240	Ant1	-34.13	-27	Pass
NVNT	ac40	5190	Ant1	-34.36	-27	Pass
NVNT	ac40	5230	Ant1	-34.5	-27	Pass
NVNT	ac80	5210	Ant1	-34.79	-27	Pass

Note: This test has increased antenna gain.

Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission



Tx. Spurious NVNT a 5200MHz Ant1 Emission