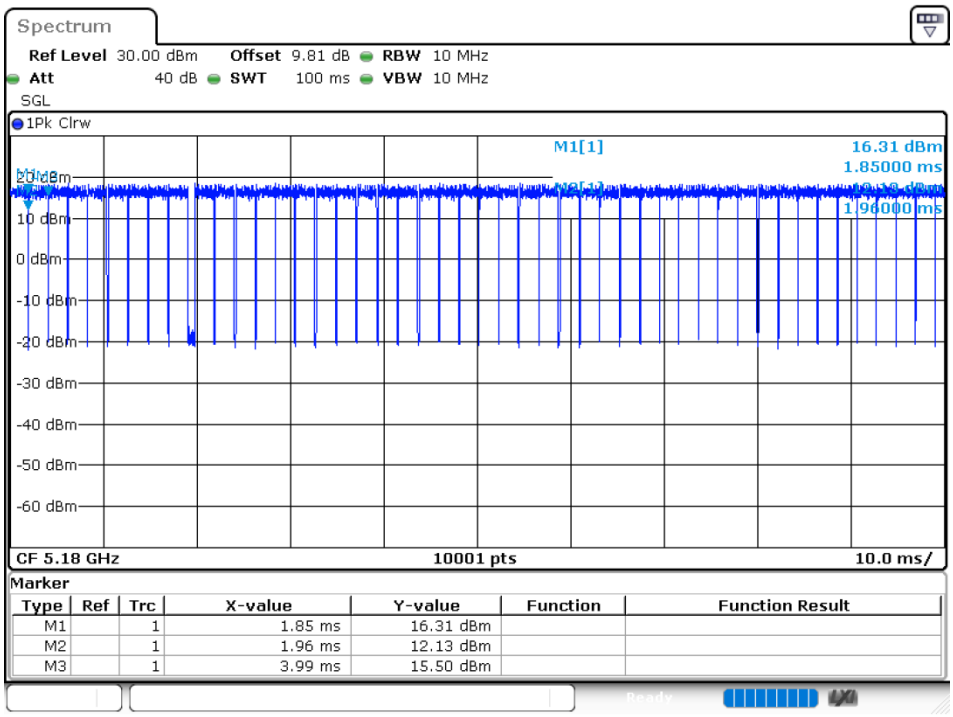
5.2G:

Duty Cycle

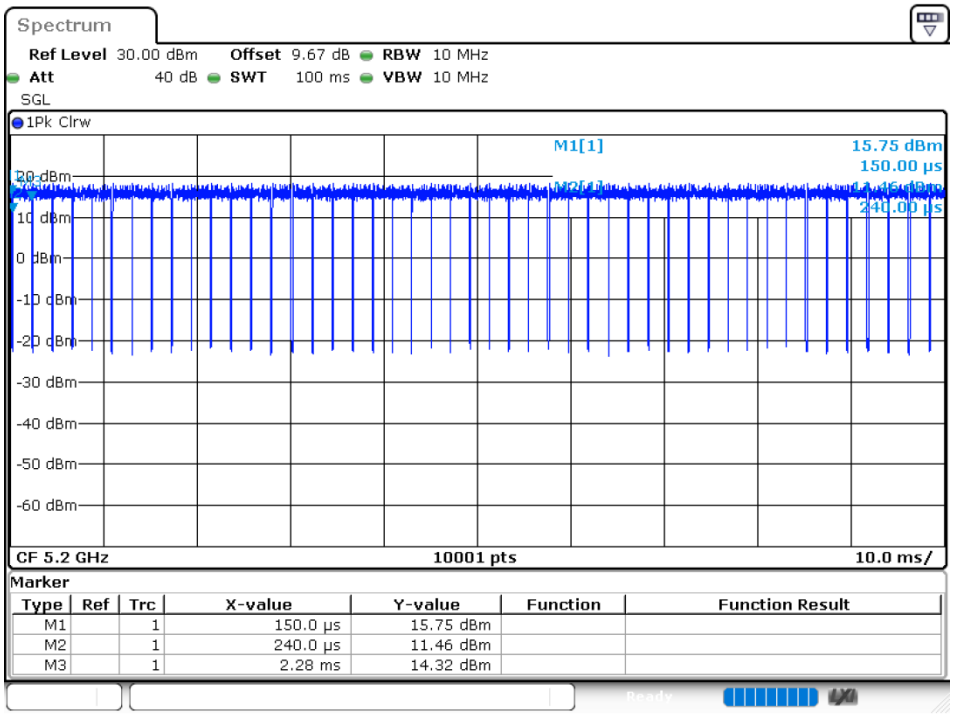
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.72	0.24	0.49
NVNT	a	5200	Ant1	95.64	0.19	0.49
NVNT	a	5240	Ant1	94.88	0.23	0.49
NVNT	n20	5180	Ant1	94.71	0.24	0.53
NVNT	n20	5200	Ant1	95.81	0.19	0.53
NVNT	n20	5240	Ant1	94.59	0.24	0.53
NVNT	n40	5190	Ant1	86.25	0.64	1.08
NVNT	n40	5230	Ant1	89.37	0.49	1.08
NVNT	ac20	5180	Ant1	94.95	0.23	0.53
NVNT	ac20	5200	Ant1	92	0.36	0.53
NVNT	ac20	5240	Ant1	95.26	0.21	0.53
NVNT	ac40	5190	Ant1	90.97	0.41	1.06
NVNT	ac40	5230	Ant1	89.79	0.47	1.08

Test Graphs

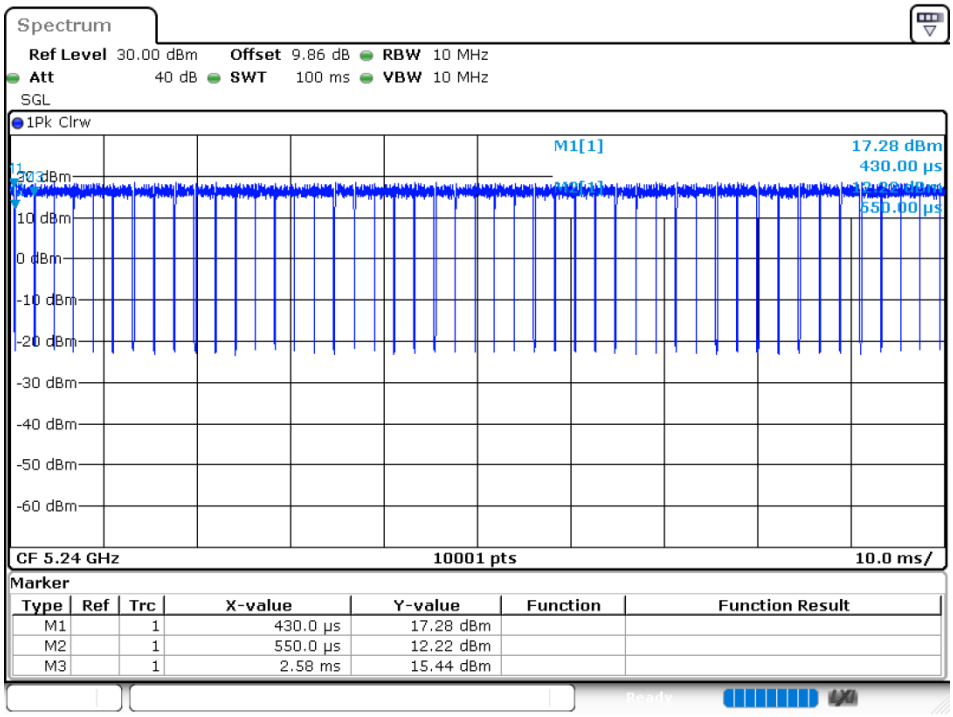
Duty Cycle NVNT a 5180MHz Ant1



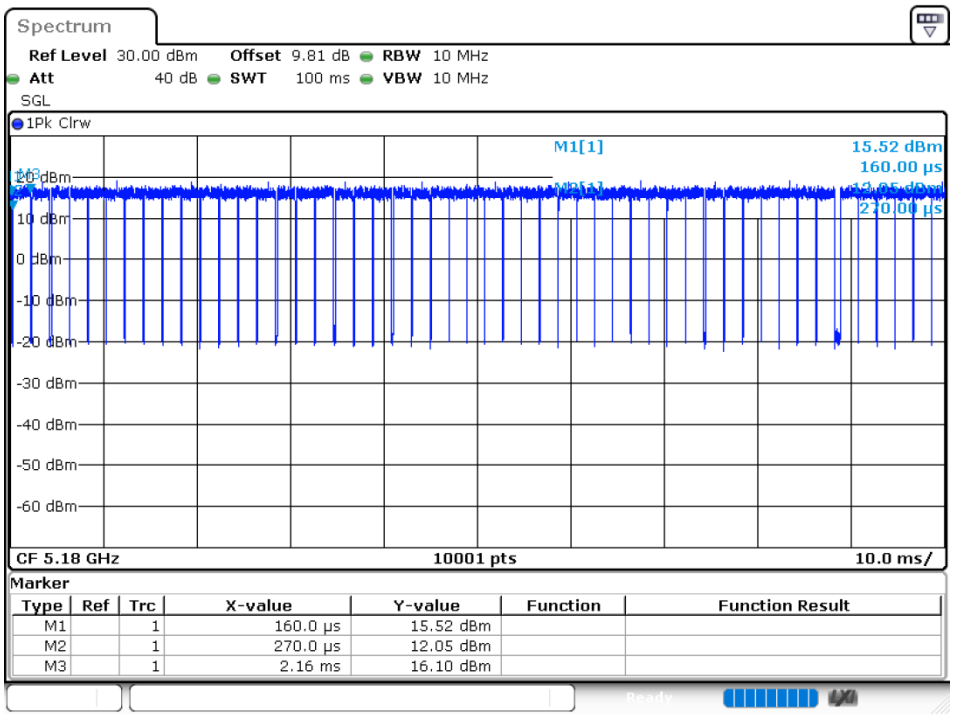
Duty Cycle NVNT a 5200MHz Ant1



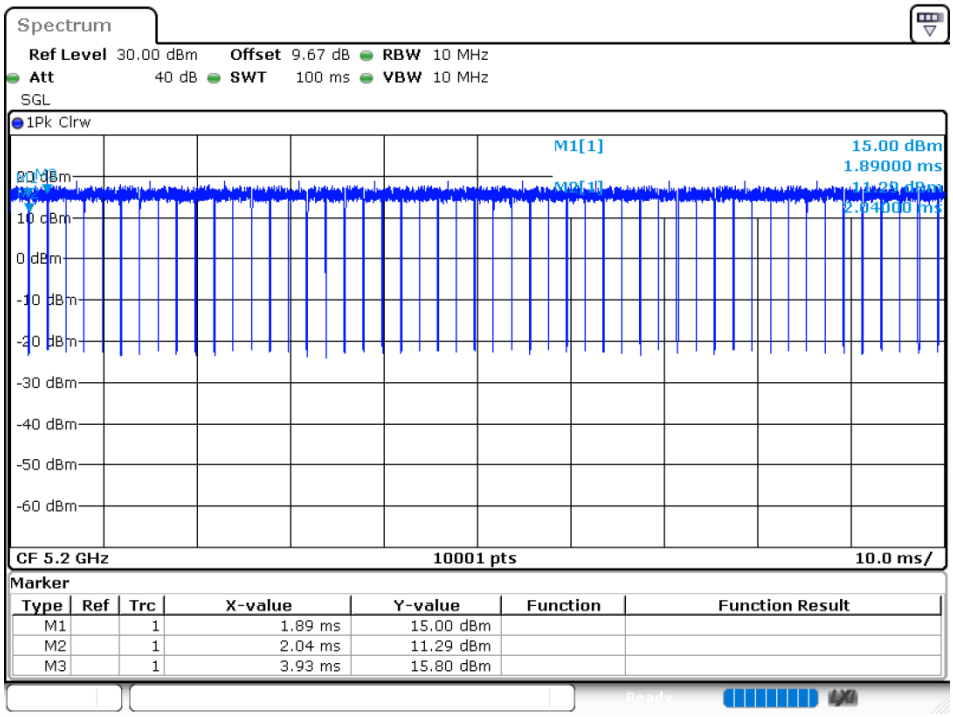
Duty Cycle NVNT a 5240MHz Ant1



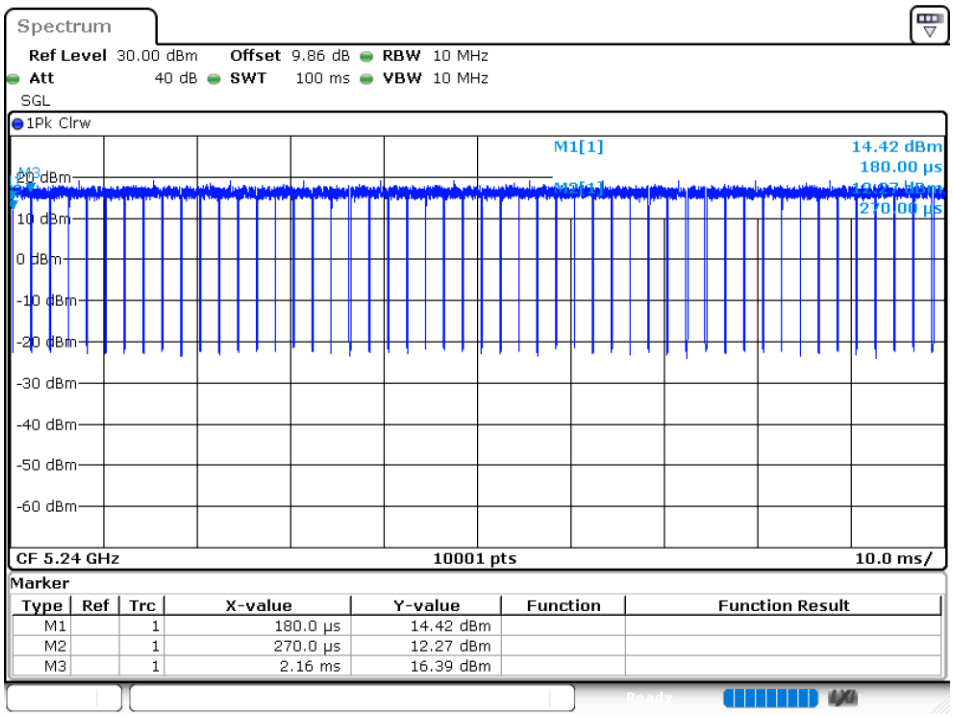
Duty Cycle NVNT n20 5180MHz Ant1



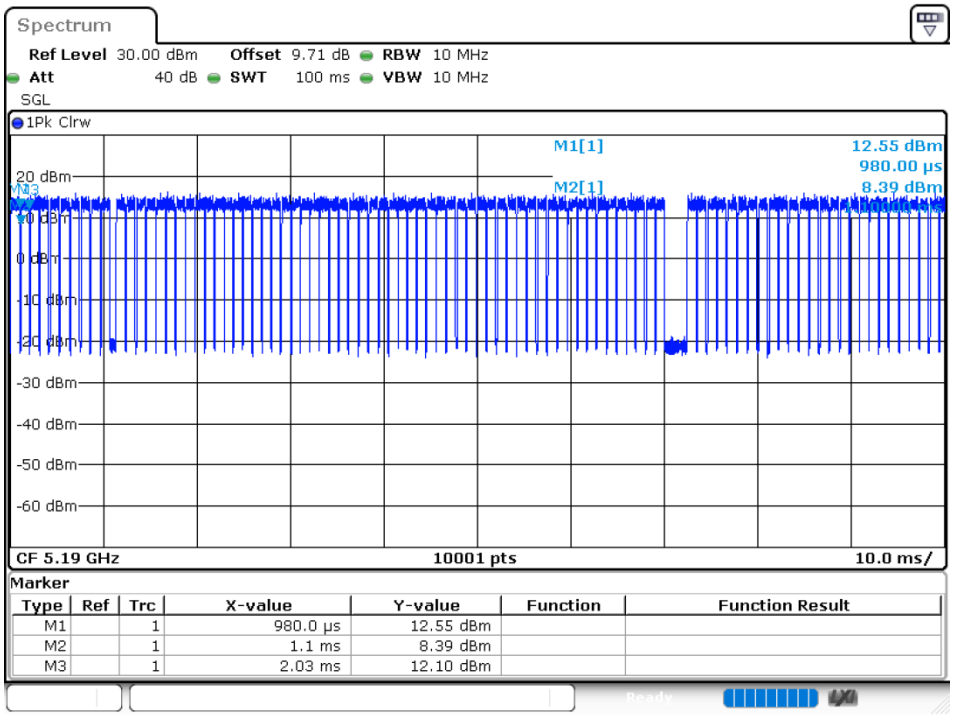
Duty Cycle NVNT n20 5200MHz Ant1



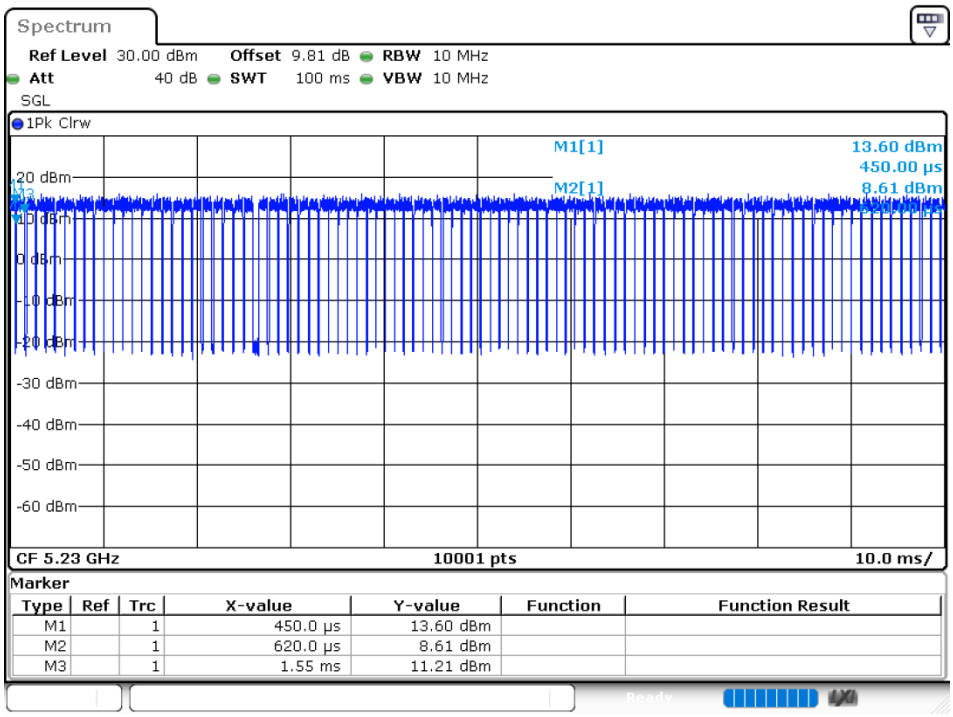
Duty Cycle NVNT n20 5240MHz Ant1



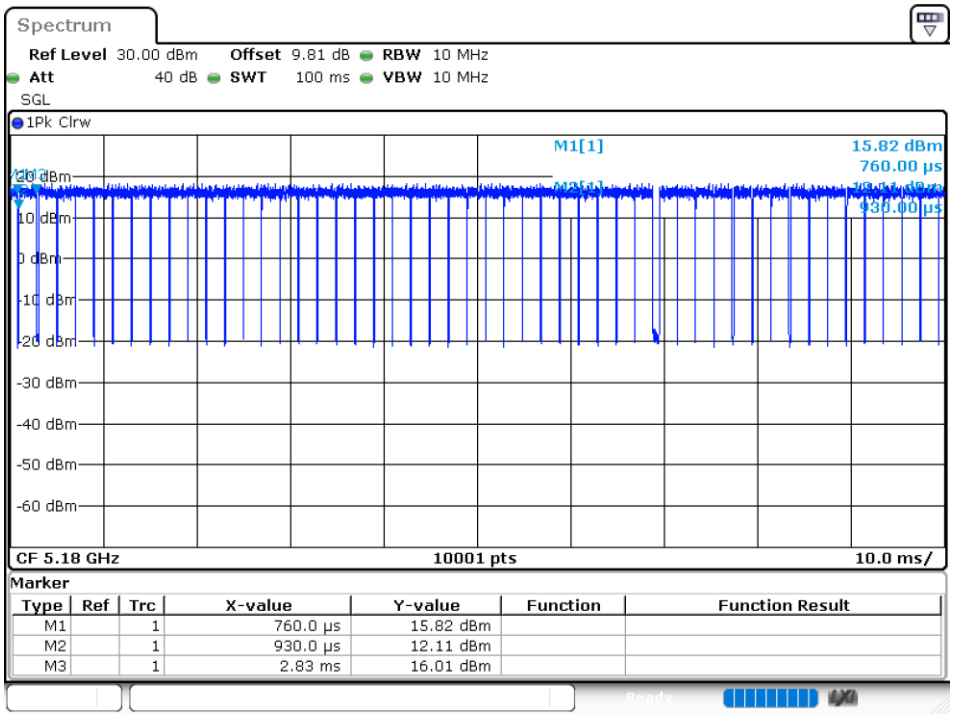
Duty Cycle NVNT n40 5190MHz Ant1



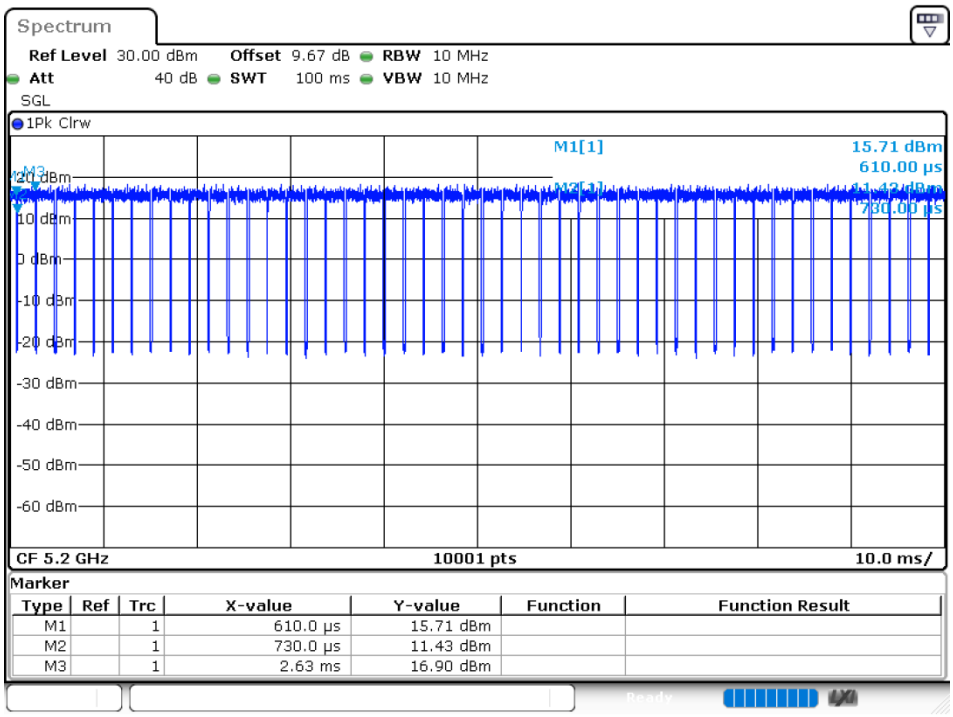
Duty Cycle NVNT n40 5230MHz Ant1



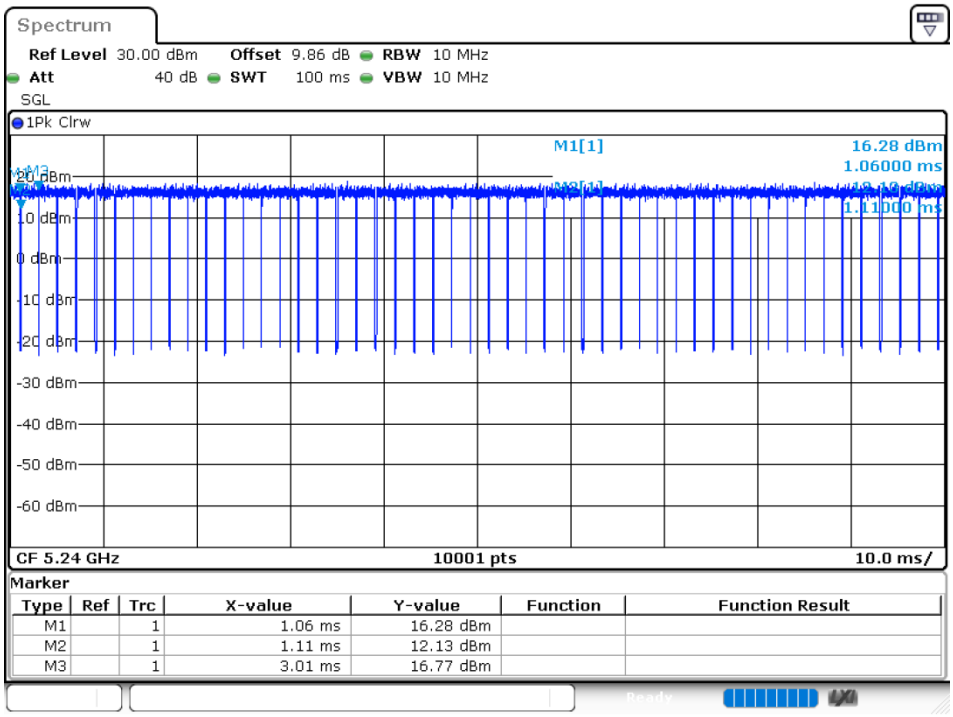
Duty Cycle NVNT ac20 5180MHz Ant1



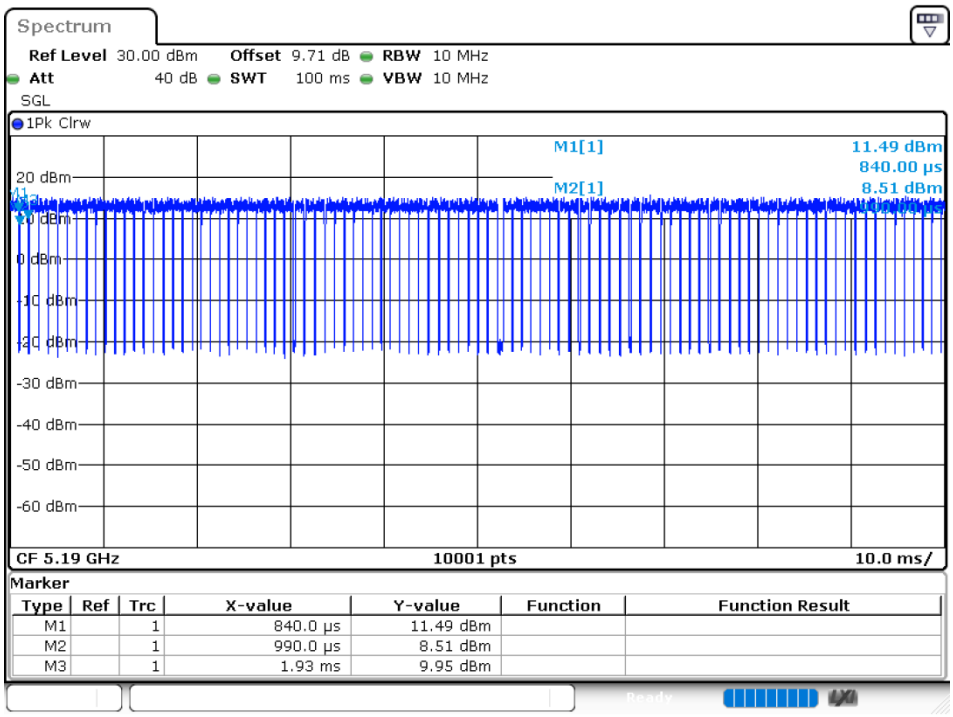
Duty Cycle NVNT ac20 5200MHz Ant1



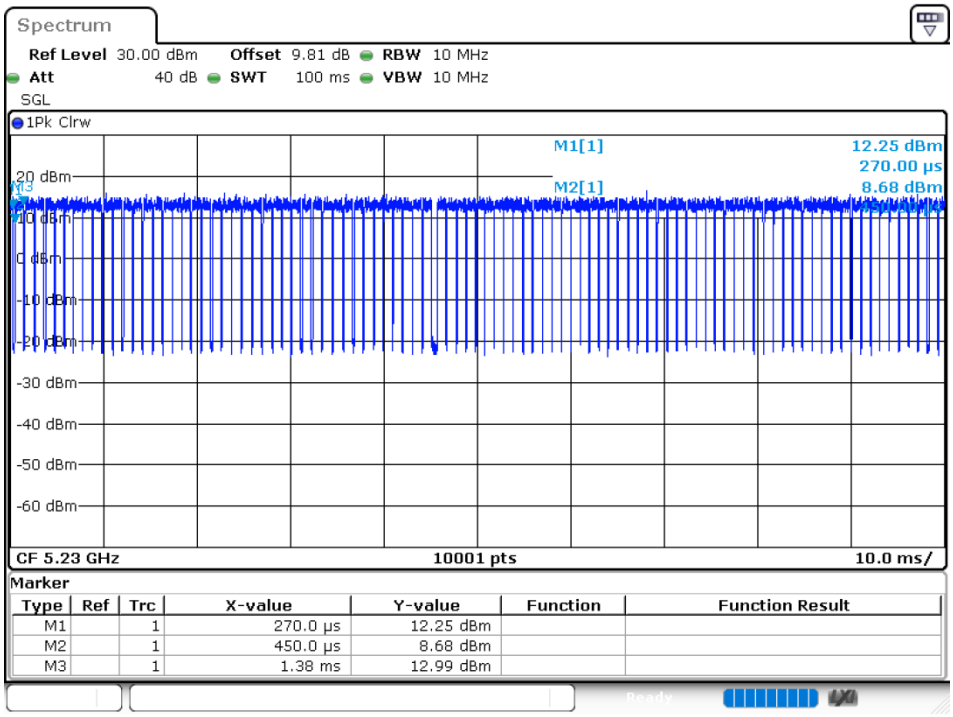
Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	270.0 µs	12.25 dBm		
M2		1	450.0 µs	8.68 dBm		
M3		1	1.38 ms	12.99 dBm		

Maximum Conducted Output Power

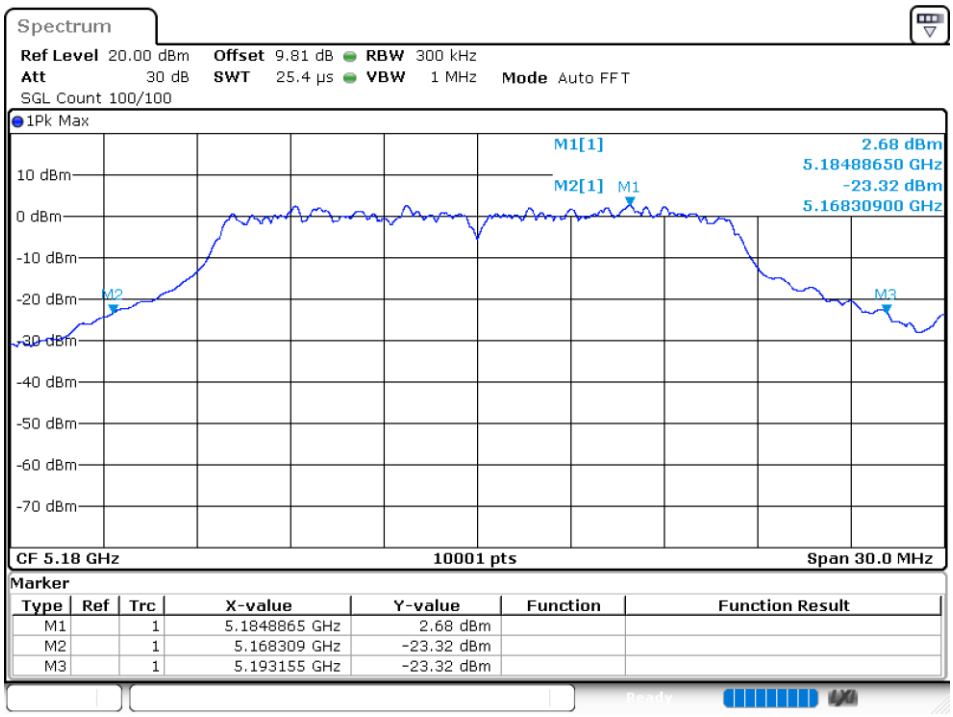
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	9.92	0.24	10.16	24	Pass
NVNT	a	5200	Ant1	9.97	0.19	10.16	24	Pass
NVNT	a	5240	Ant1	10.17	0.23	10.4	24	Pass
NVNT	n20	5180	Ant1	9.84	0.24	10.08	24	Pass
NVNT	n20	5200	Ant1	9.88	0.19	10.07	24	Pass
NVNT	n20	5240	Ant1	10.15	0.24	10.39	24	Pass
NVNT	n40	5190	Ant1	9.51	0.64	10.15	24	Pass
NVNT	n40	5230	Ant1	9.59	0.49	10.08	24	Pass
NVNT	ac20	5180	Ant1	9.85	0.23	10.08	24	Pass
NVNT	ac20	5200	Ant1	9.78	0.36	10.14	24	Pass
NVNT	ac20	5240	Ant1	10.16	0.21	10.37	24	Pass
NVNT	ac40	5190	Ant1	9.71	0.41	10.12	24	Pass
NVNT	ac40	5230	Ant1	9.61	0.47	10.08	24	Pass

-26dB Bandwidth

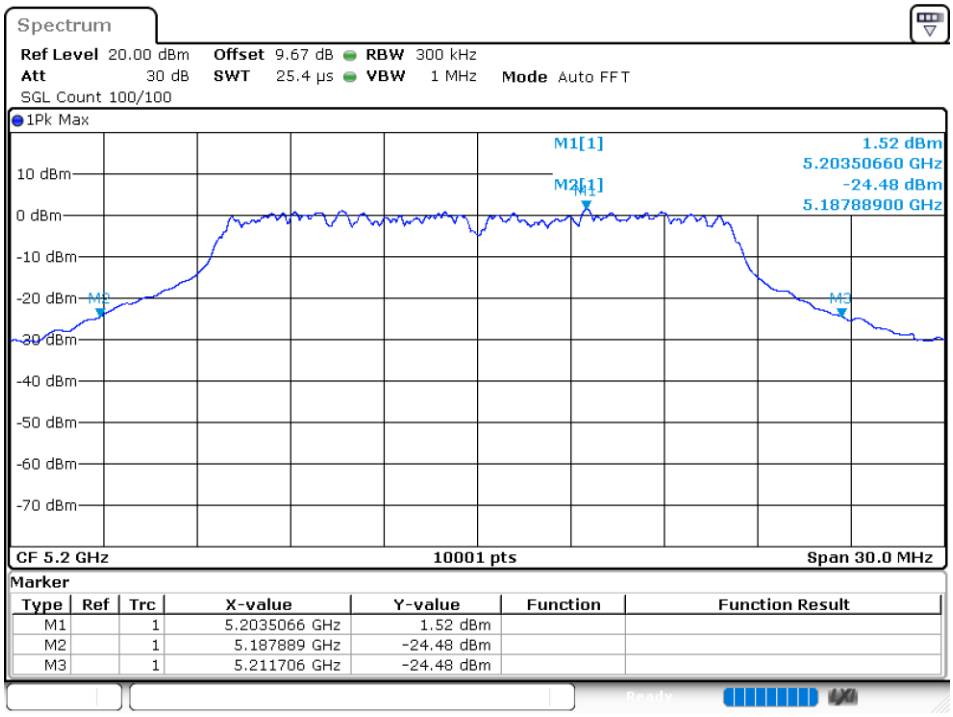
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	24.846	0.5	Pass
NVNT	a	5200	Ant1	23.817	0.5	Pass
NVNT	a	5240	Ant1	22.893	0.5	Pass
NVNT	n20	5180	Ant1	24.945	0.5	Pass
NVNT	n20	5200	Ant1	25.173	0.5	Pass
NVNT	n20	5240	Ant1	25.143	0.5	Pass
NVNT	n40	5190	Ant1	49.014	0.5	Pass
NVNT	n40	5230	Ant1	49.104	0.5	Pass
NVNT	ac20	5180	Ant1	24.858	0.5	Pass
NVNT	ac20	5200	Ant1	23.859	0.5	Pass
NVNT	ac20	5240	Ant1	25.323	0.5	Pass
NVNT	ac40	5190	Ant1	47.628	0.5	Pass
NVNT	ac40	5230	Ant1	48.054	0.5	Pass

Test Graphs

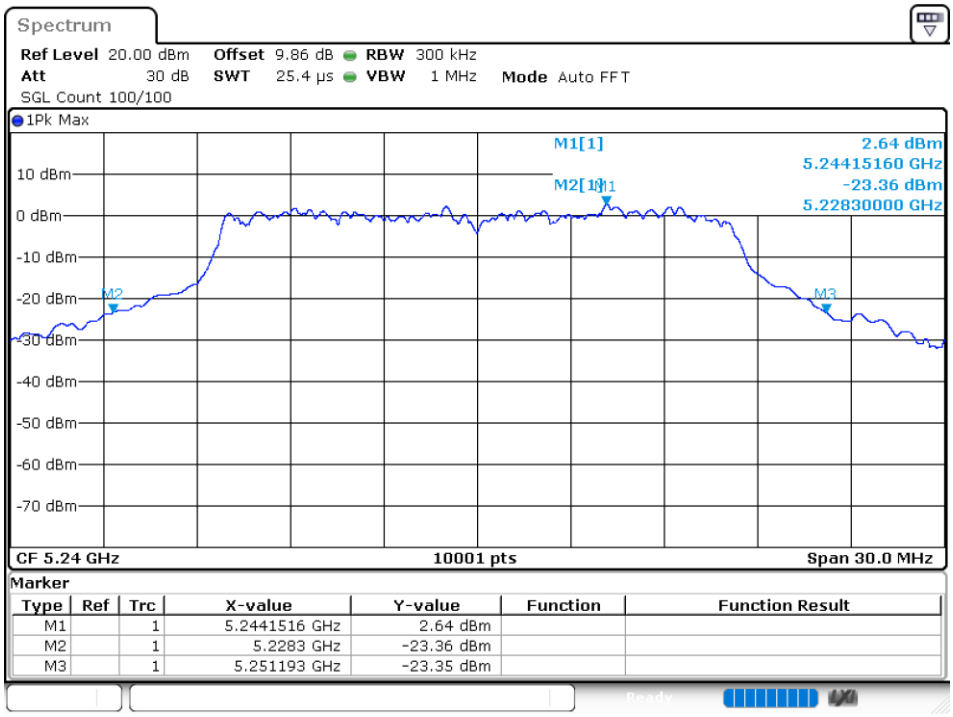
-26dB Bandwidth NVNT a 5180MHz Ant1



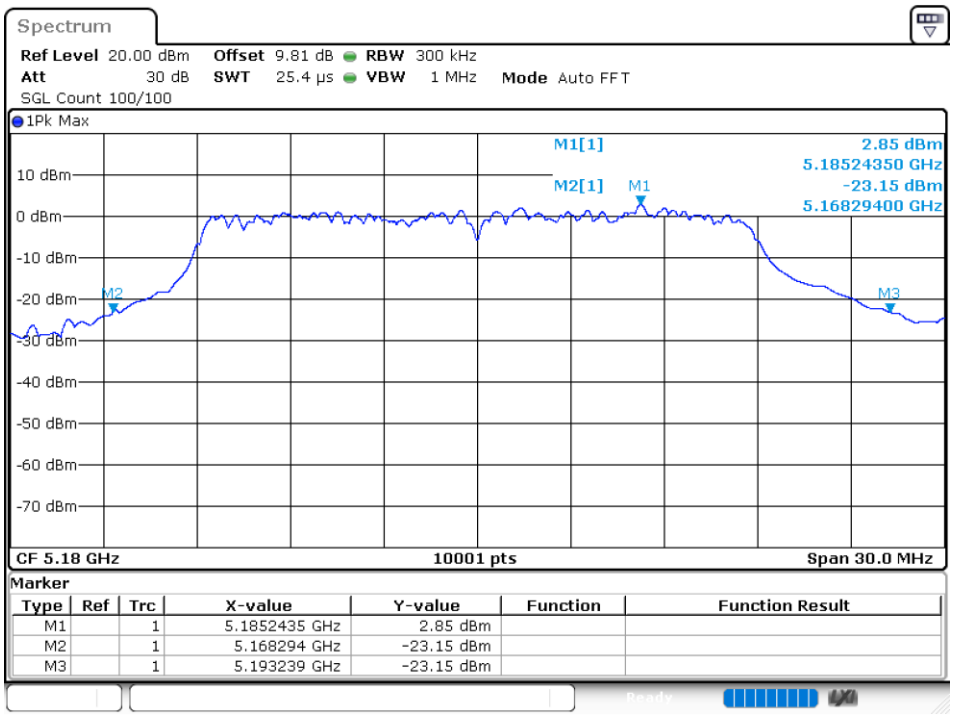
-26dB Bandwidth NVNT a 5200MHz Ant1



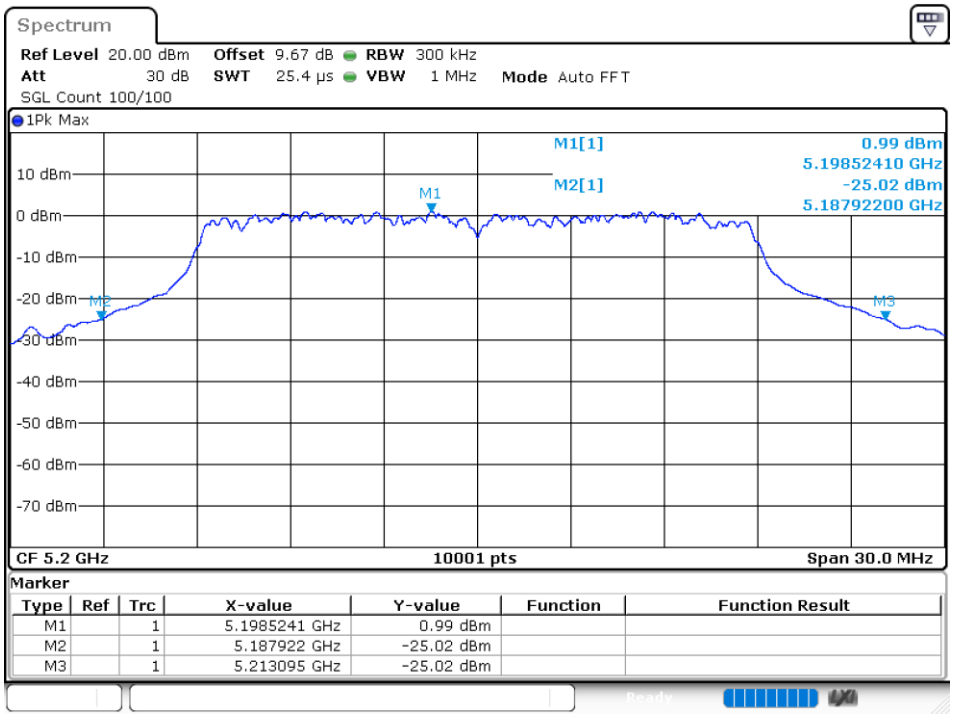
-26dB Bandwidth NVNT a 5240MHz Ant1



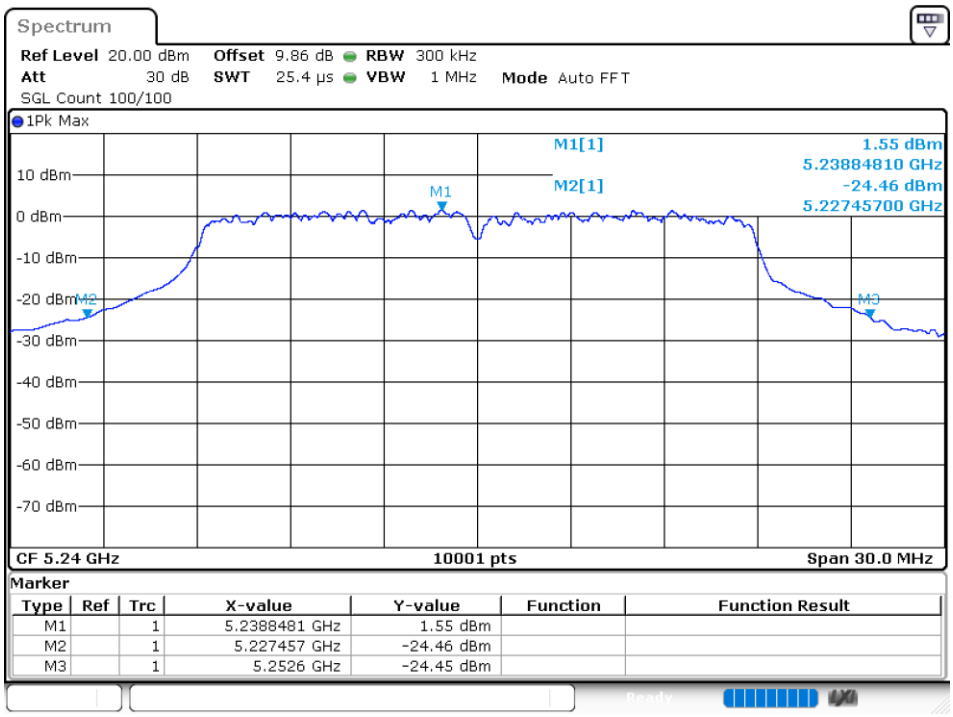
-26dB Bandwidth NVNT n20 5180MHz Ant1



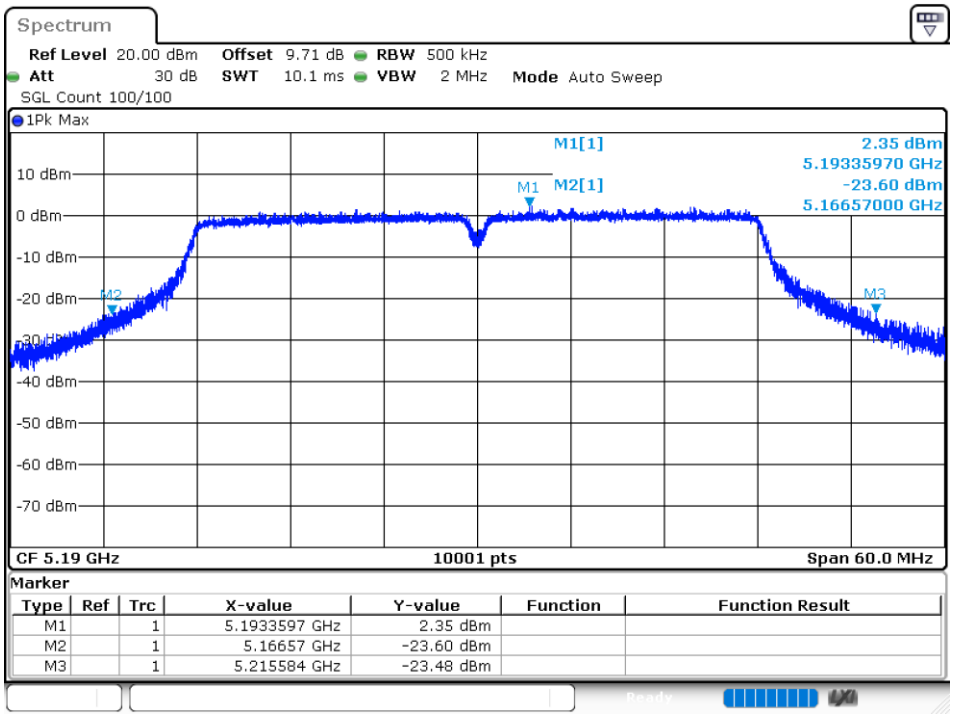
-26dB Bandwidth NVNT n20 5200MHz Ant1



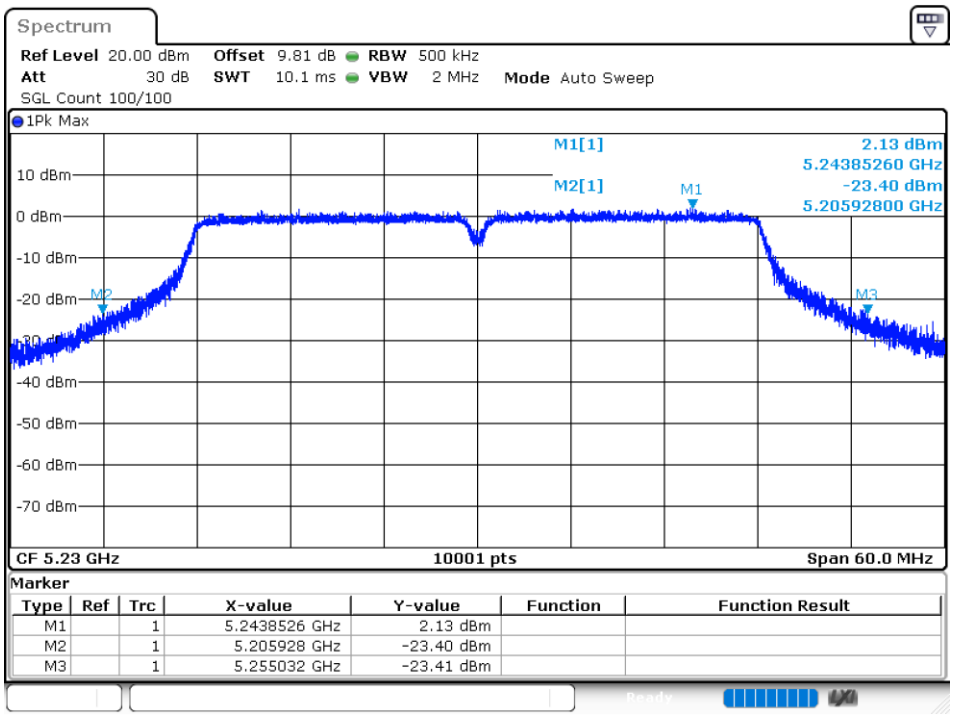
-26dB Bandwidth NVNT n20 5240MHz Ant1



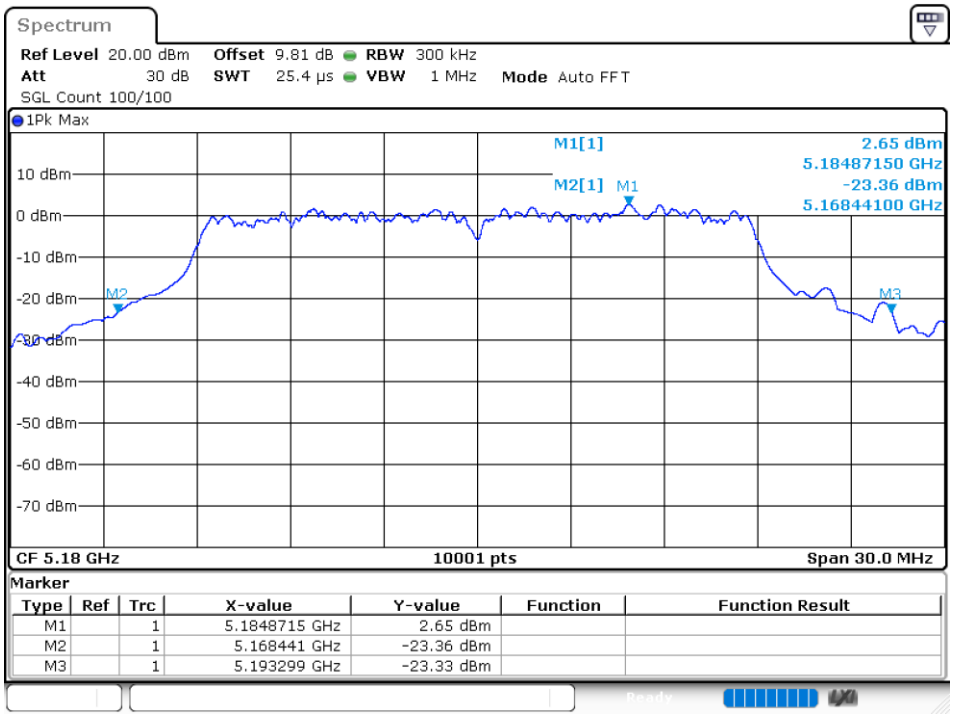
-26dB Bandwidth NVNT n40 5190MHz Ant1



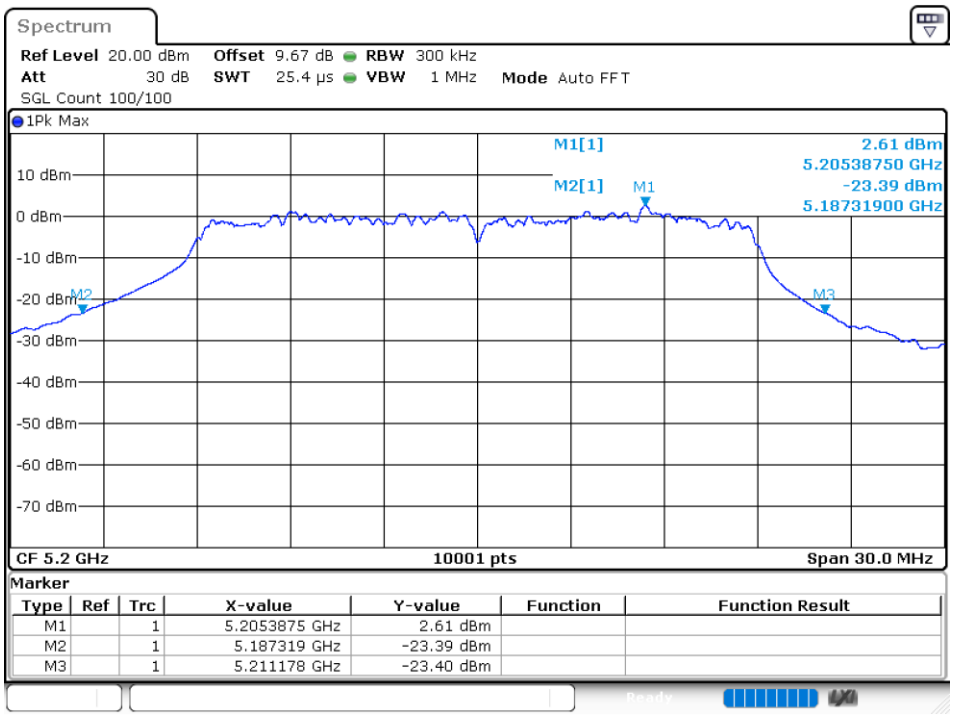
-26dB Bandwidth NVNT n40 5230MHz Ant1



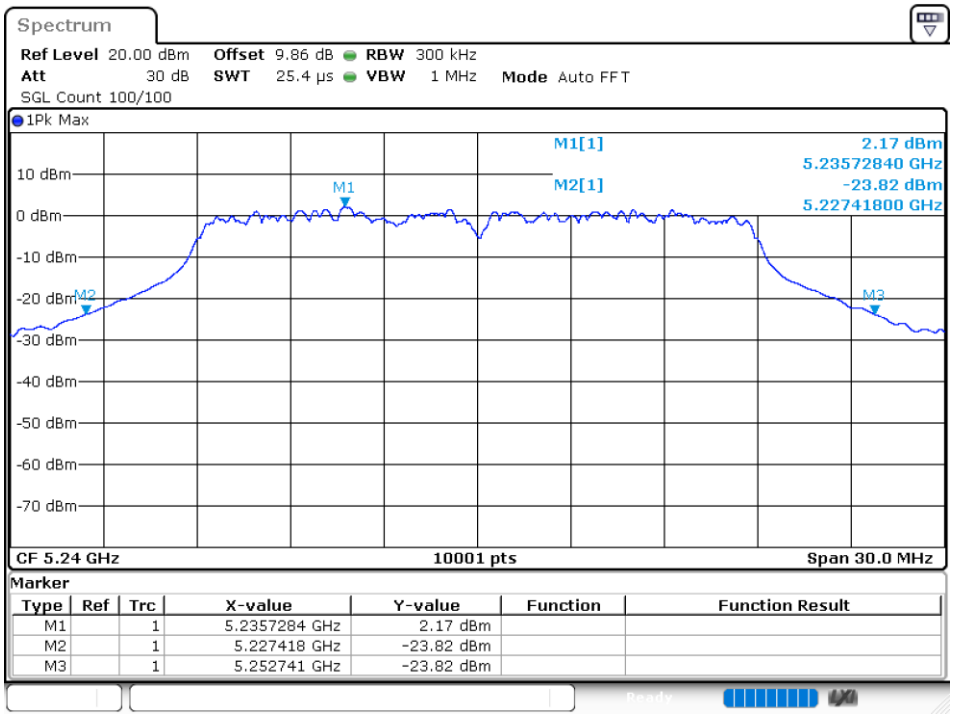
-26dB Bandwidth NVNT ac20 5180MHz Ant1



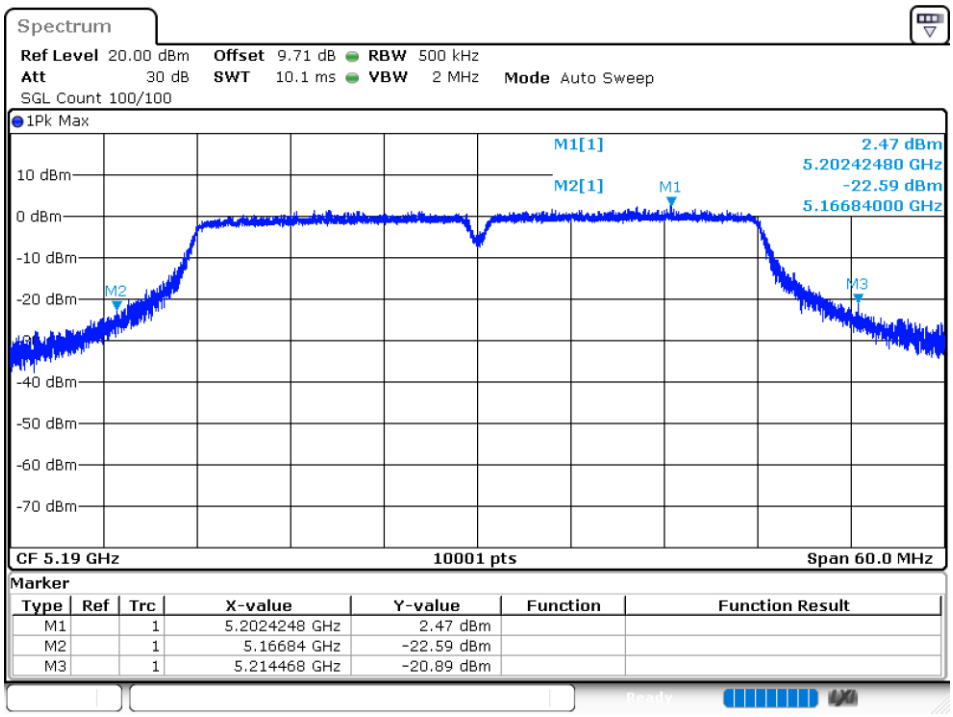
-26dB Bandwidth NVNT ac20 5200MHz Ant1



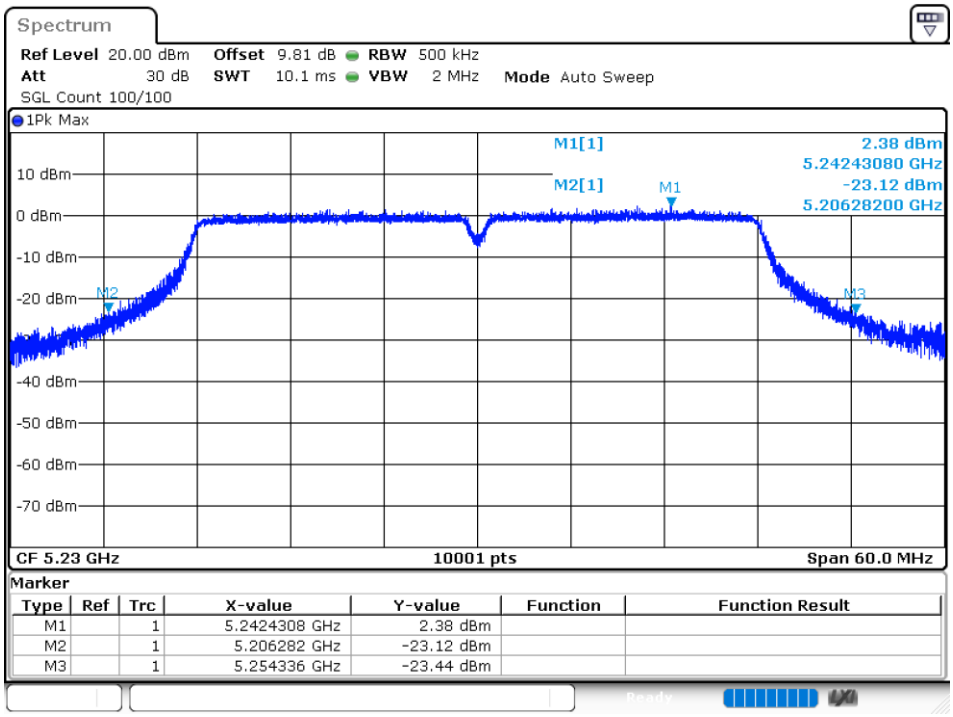
-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1

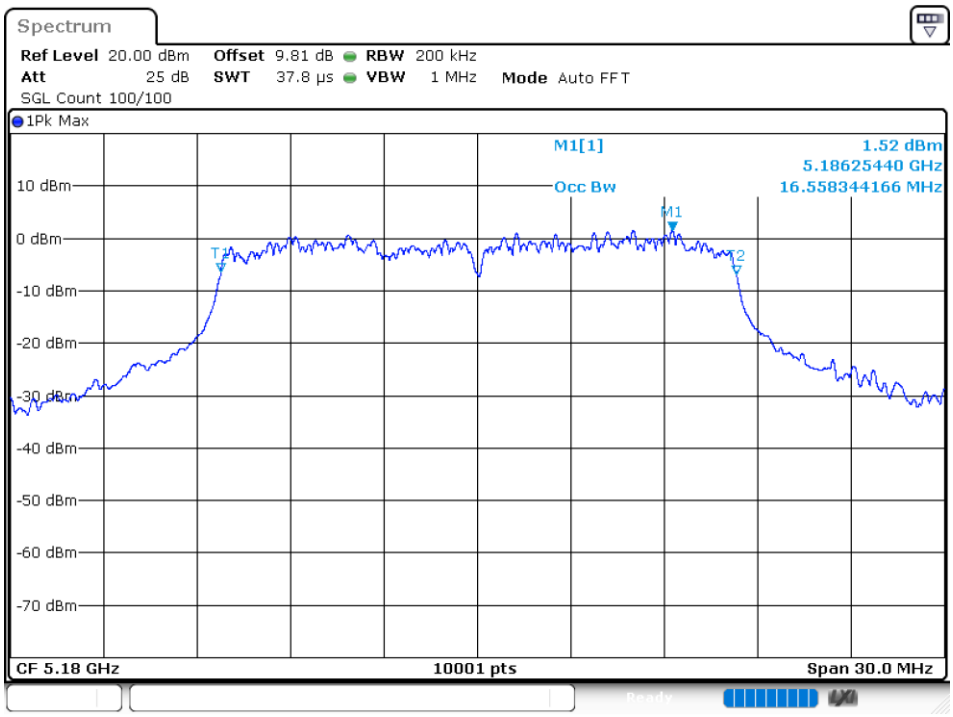


Occupied Channel Bandwidth

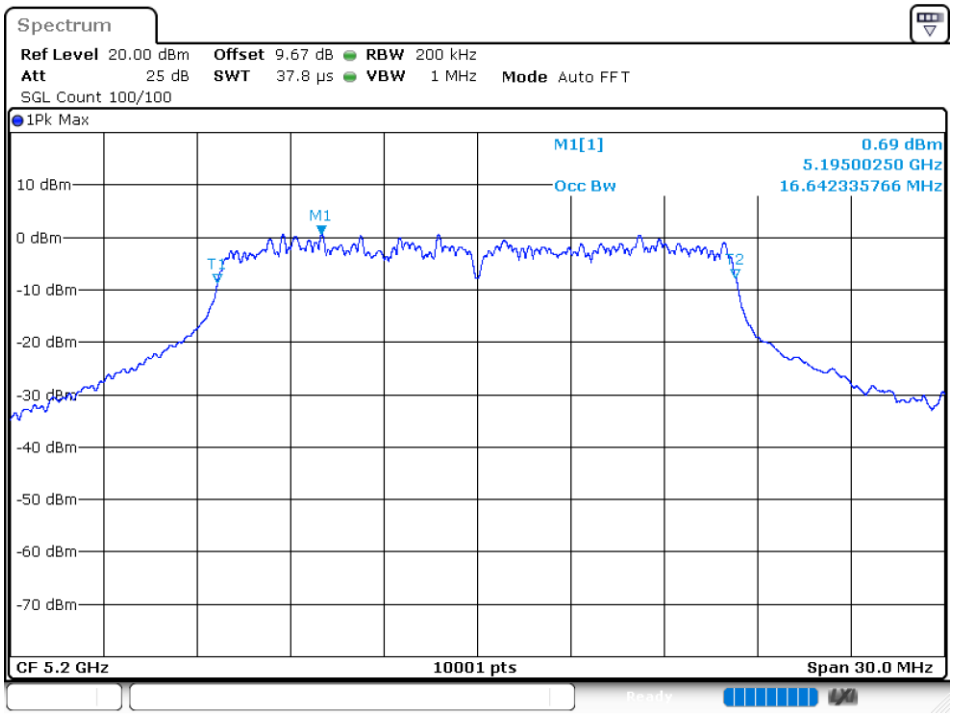
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.558
NVNT	a	5200	Ant1	16.642
NVNT	a	5240	Ant1	16.621
NVNT	n20	5180	Ant1	18.061
NVNT	n20	5200	Ant1	17.875
NVNT	n20	5240	Ant1	17.908
NVNT	n40	5190	Ant1	36.746
NVNT	n40	5230	Ant1	36.776
NVNT	ac20	5180	Ant1	17.926
NVNT	ac20	5200	Ant1	17.953
NVNT	ac20	5240	Ant1	17.923
NVNT	ac40	5190	Ant1	36.788
NVNT	ac40	5230	Ant1	36.824

Test Graphs

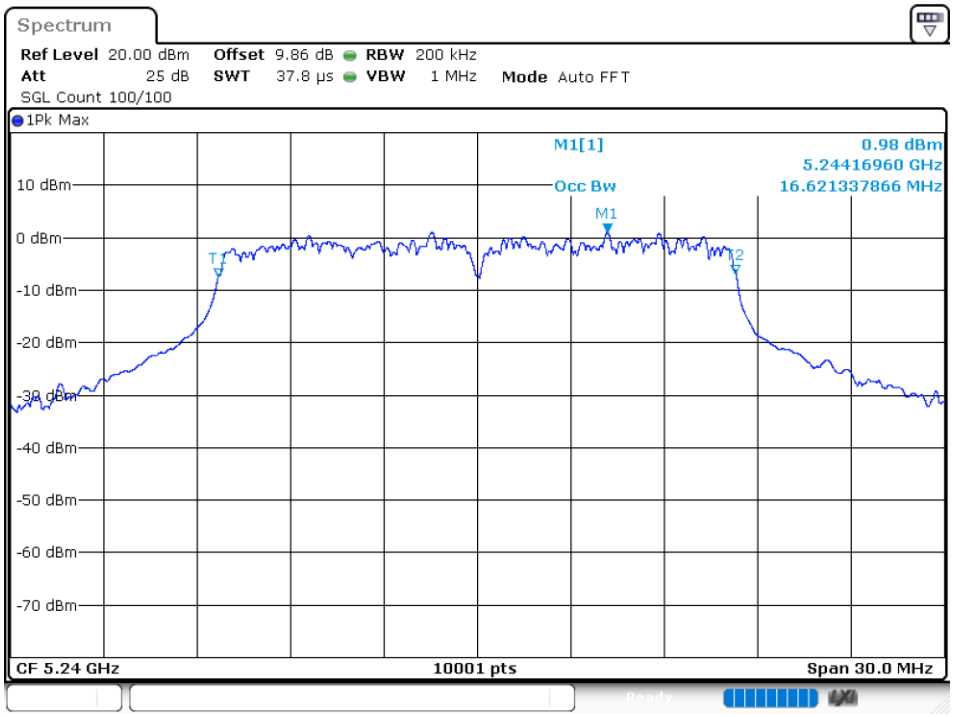
OBW NVNT a 5180MHz Ant1



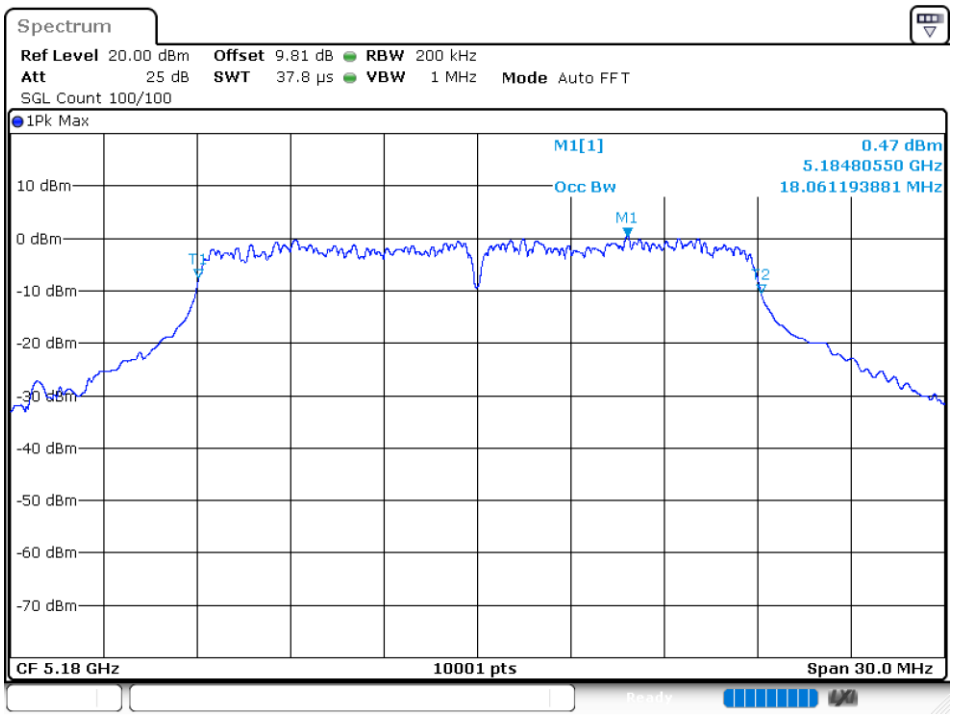
OBW NVNT a 5200MHz Ant1



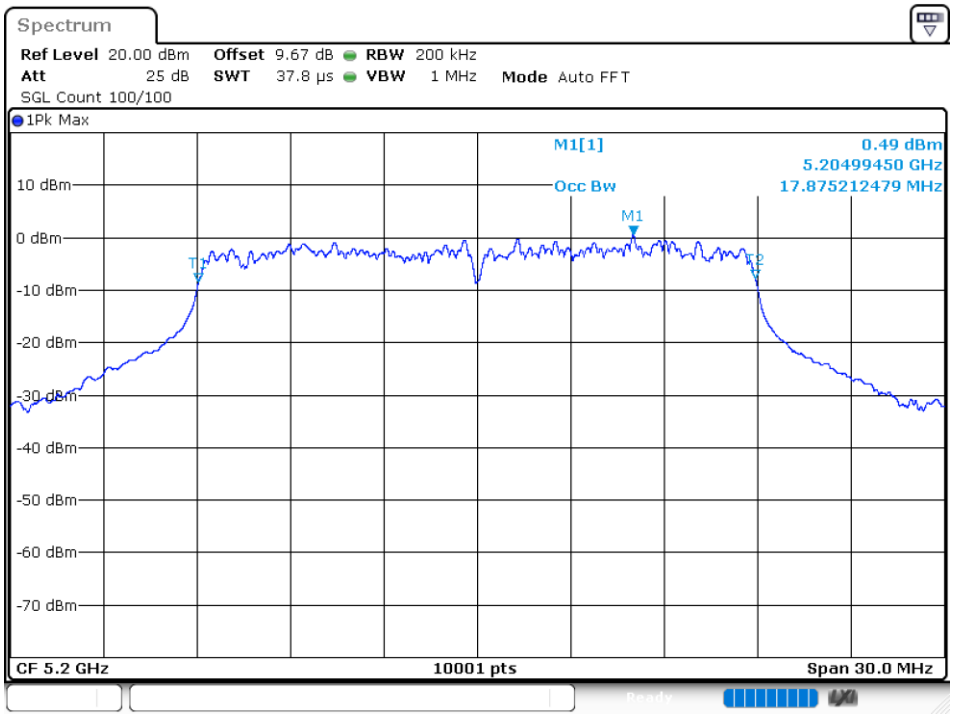
OBW NVNT a 5240MHz Ant1



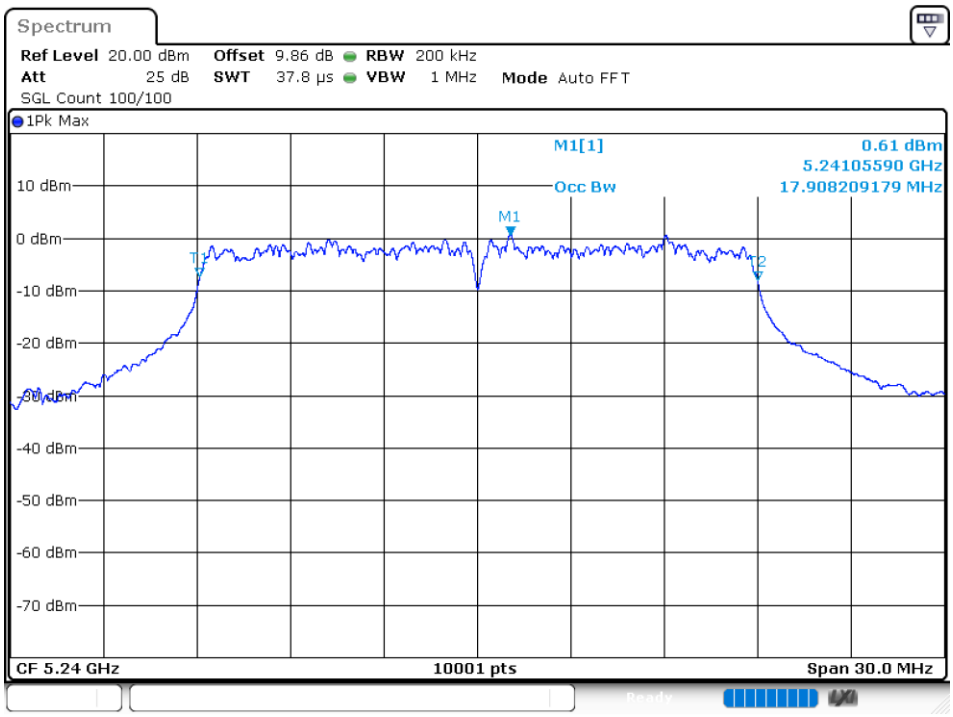
OBW NVNT n20 5180MHz Ant1



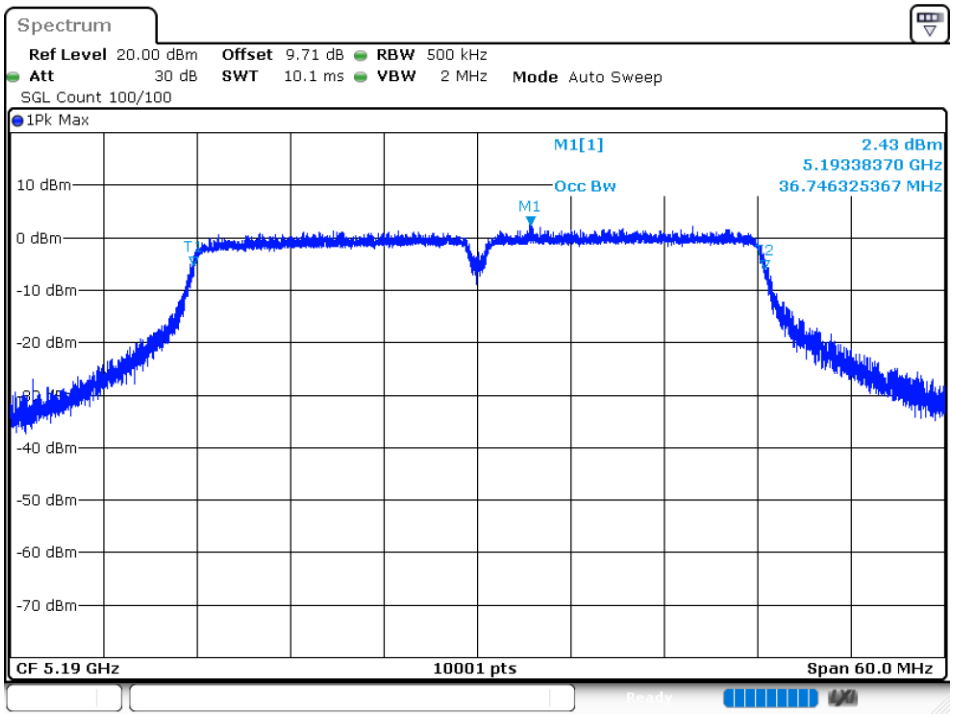
OBW NVNT n20 5200MHz Ant1



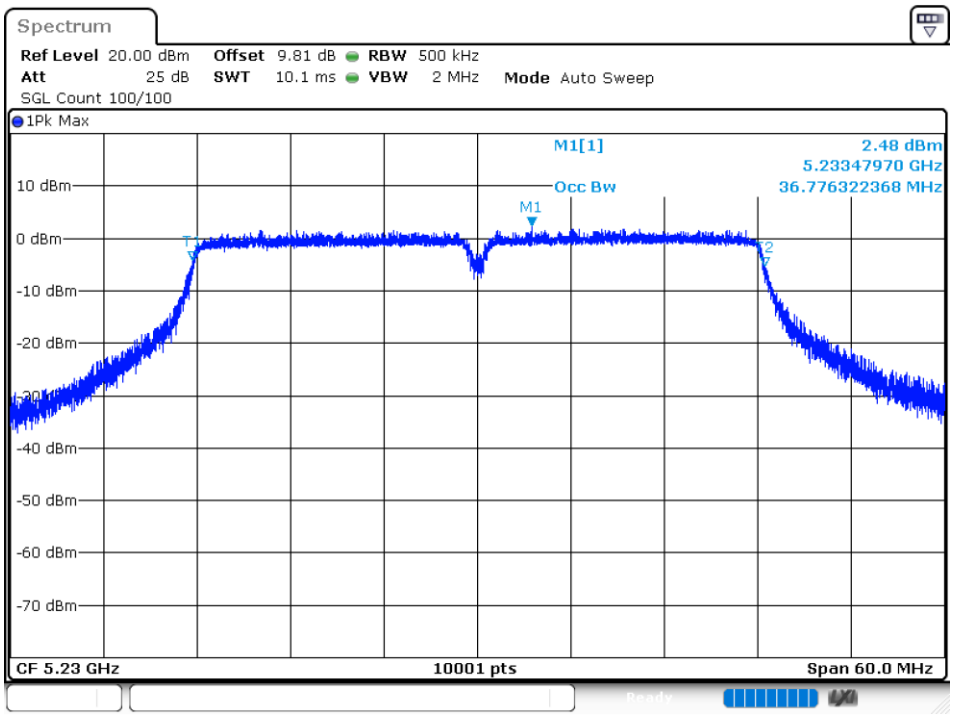
OBW NVNT n20 5240MHz Ant1



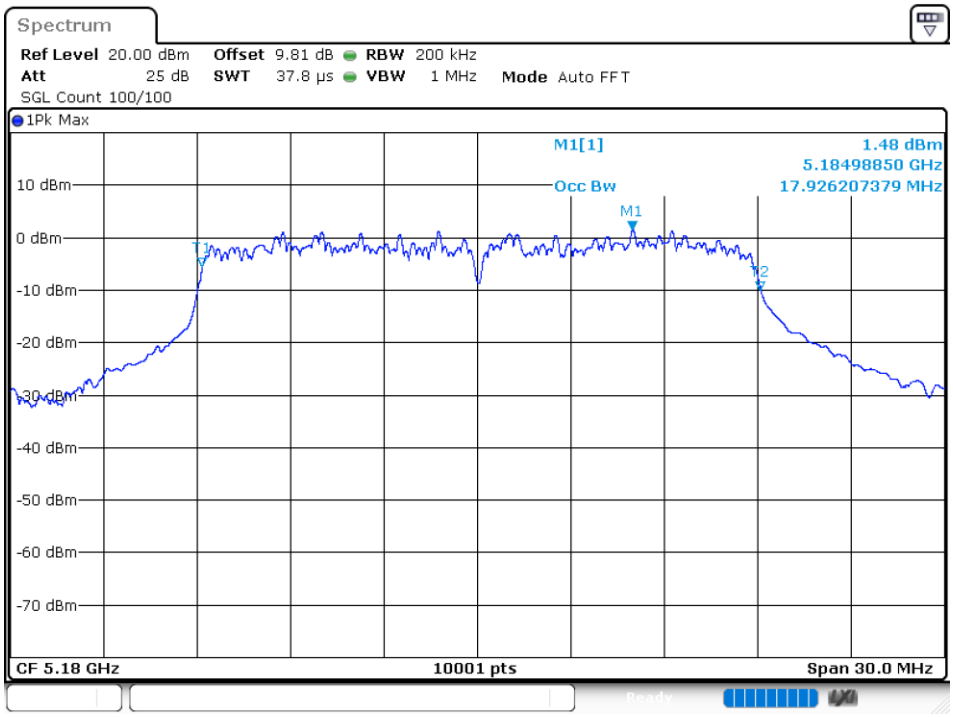
OBW NVNT n40 5190MHz Ant1



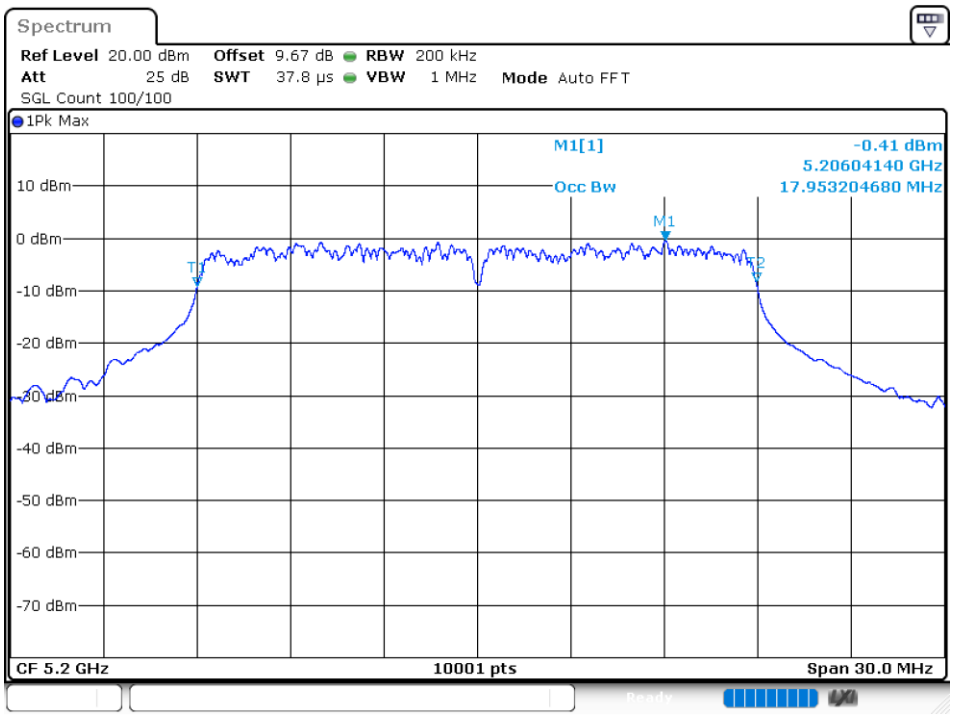
OBW NVNT n40 5230MHz Ant1



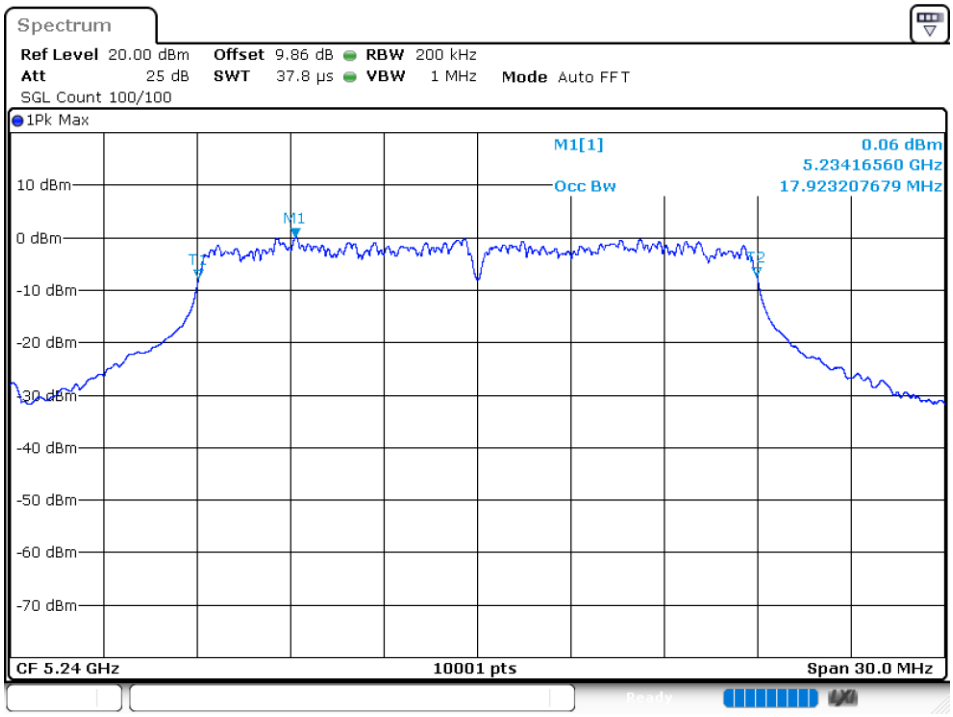
OBW NVNT ac20 5180MHz Ant1



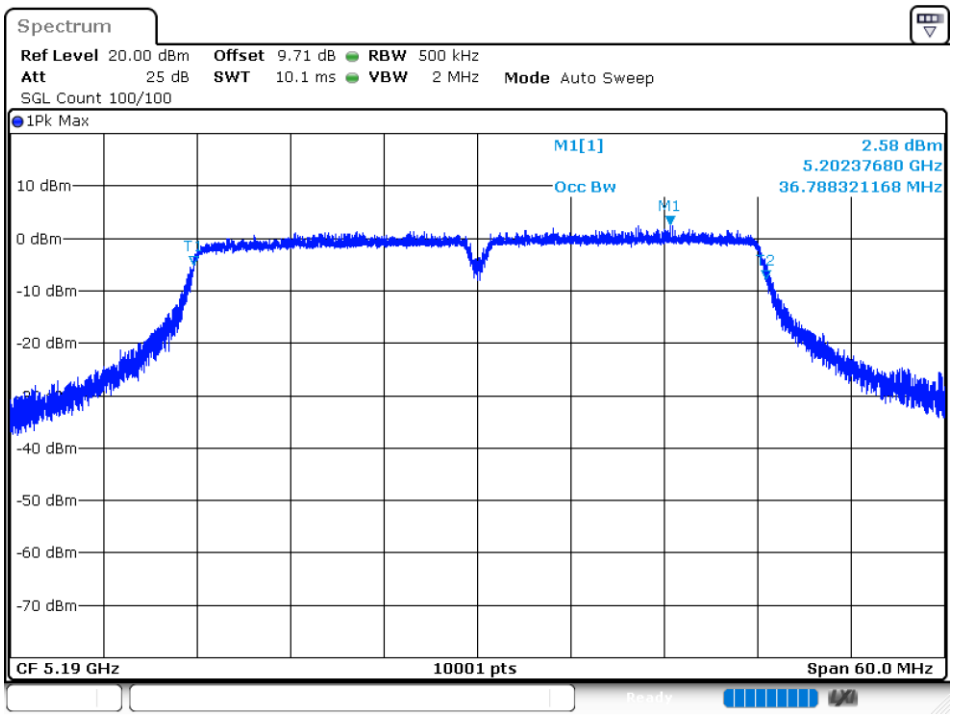
OBW NVNT ac20 5200MHz Ant1



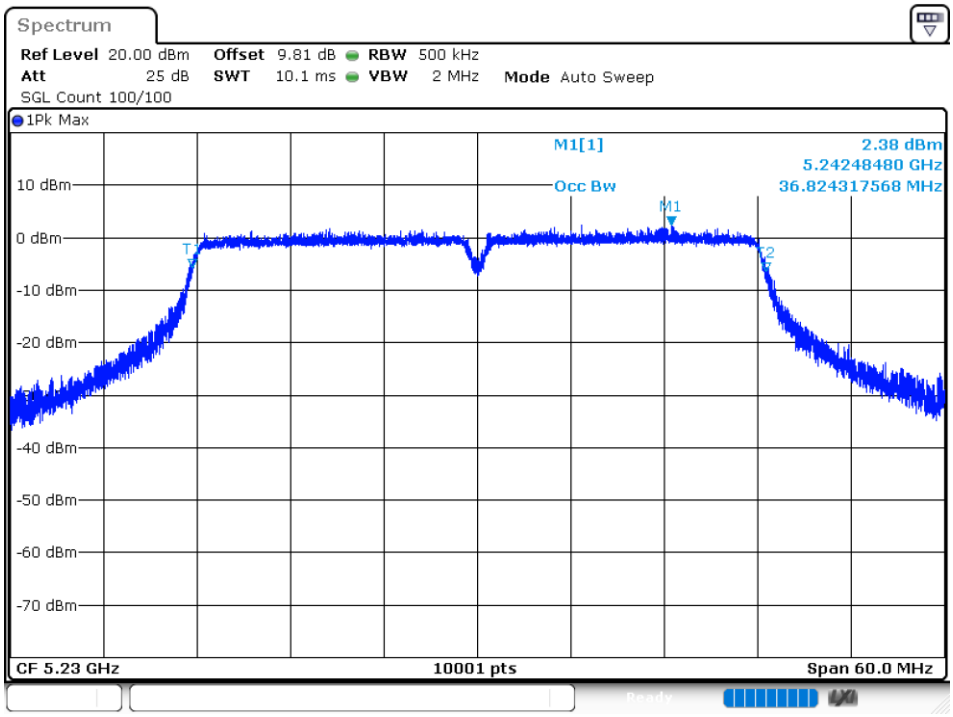
OBW NVNT ac20 5240MHz Ant1



OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1

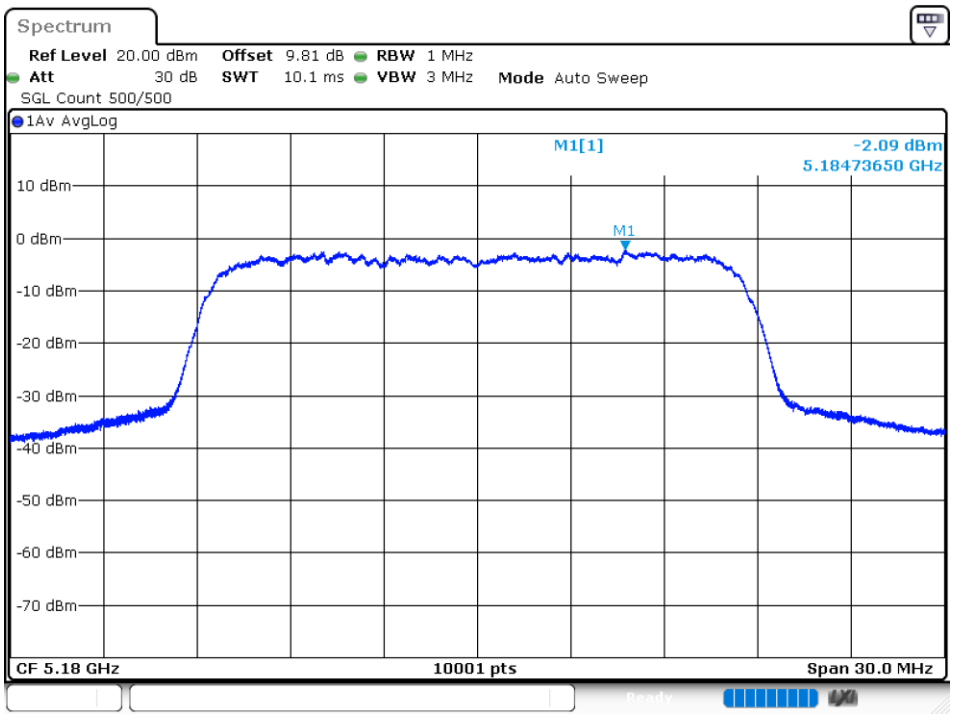


Maximum Power Spectral Density Level

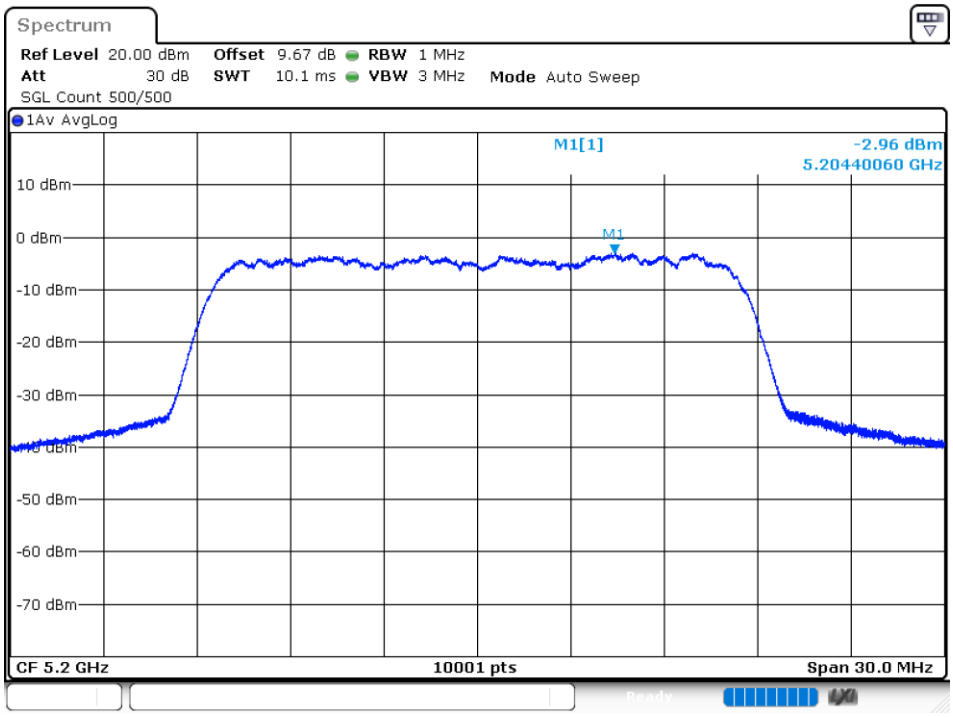
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.09	0.24	-1.85	11	Pass
NVNT	a	5200	Ant1	-2.96	0.19	-2.77	11	Pass
NVNT	a	5240	Ant1	-2.37	0.23	-2.14	11	Pass
NVNT	n20	5180	Ant1	-1.92	0.24	-1.68	11	Pass
NVNT	n20	5200	Ant1	-3.59	0.19	-3.4	11	Pass
NVNT	n20	5240	Ant1	-2.98	0.24	-2.74	11	Pass
NVNT	n40	5190	Ant1	-8.2	0.64	-7.56	11	Pass
NVNT	n40	5230	Ant1	-5.96	0.49	-5.47	11	Pass
NVNT	ac20	5180	Ant1	-2.48	0.23	-2.25	11	Pass
NVNT	ac20	5200	Ant1	-3.57	0.36	-3.21	11	Pass
NVNT	ac20	5240	Ant1	-1.43	0.21	-1.22	11	Pass
NVNT	ac40	5190	Ant1	-8.14	0.41	-7.73	11	Pass
NVNT	ac40	5230	Ant1	-8.04	0.47	-7.57	11	Pass

Test Graphs

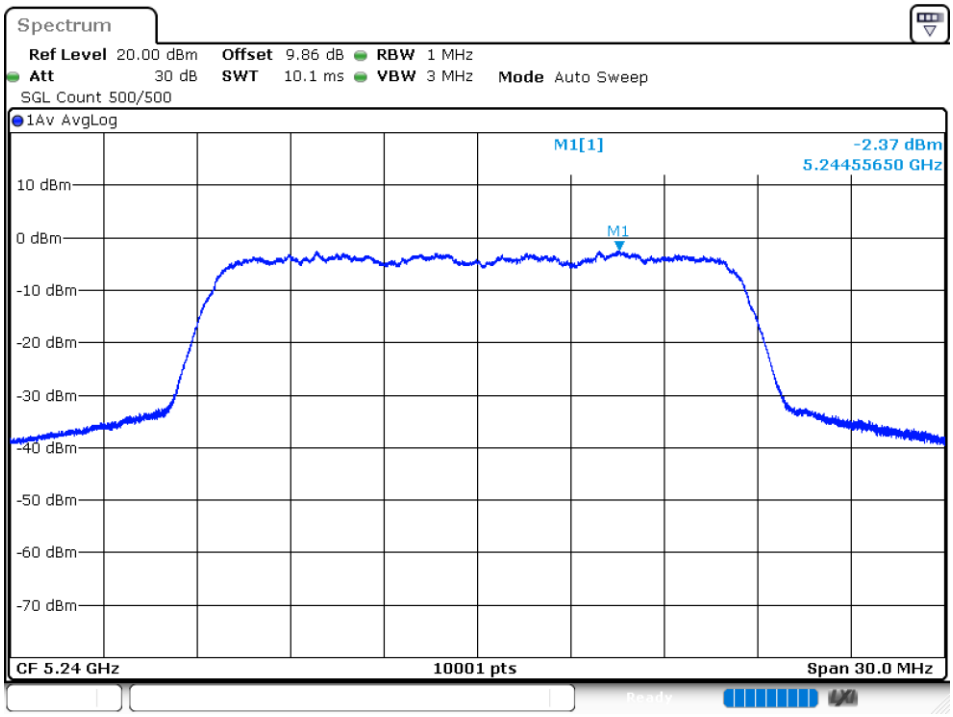
PSD NVNT a 5180MHz Ant1



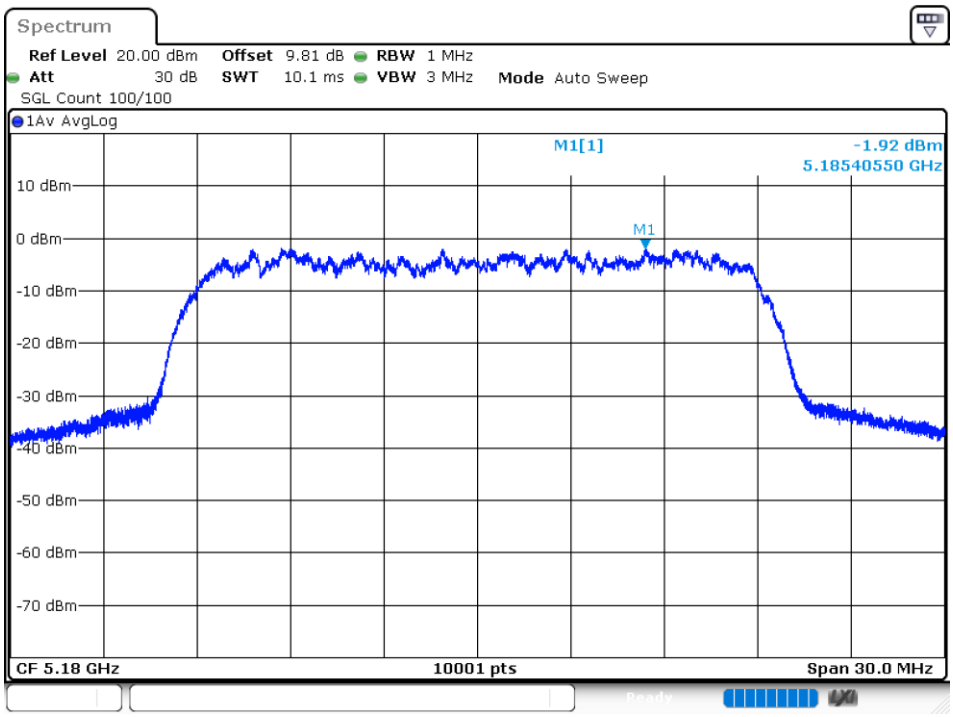
PSD NVNT a 5200MHz Ant1



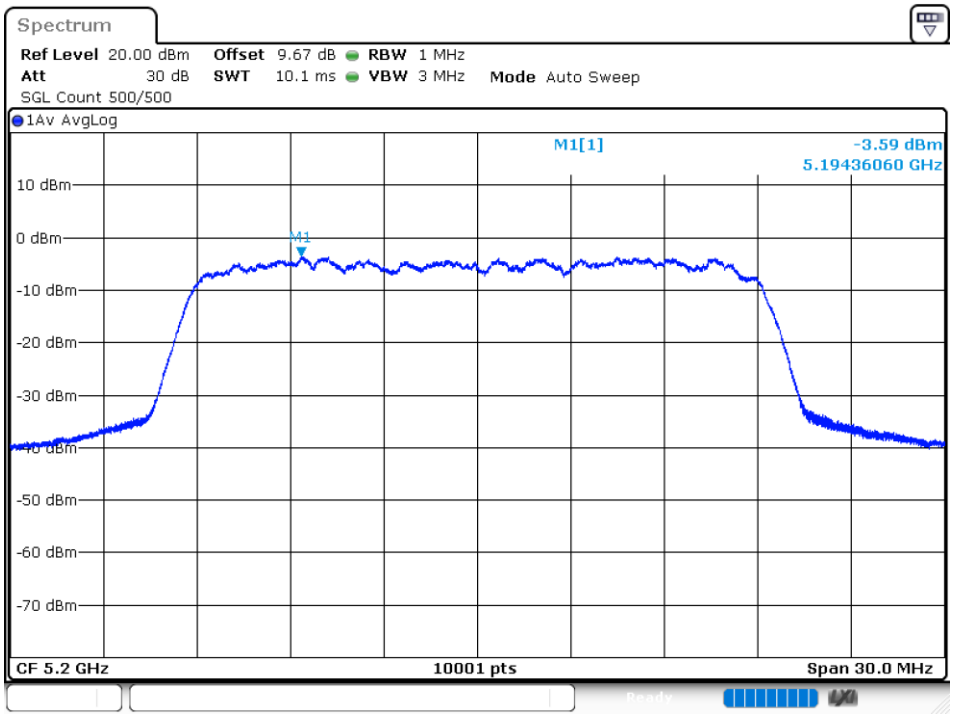
PSD NVNT a 5240MHz Ant1



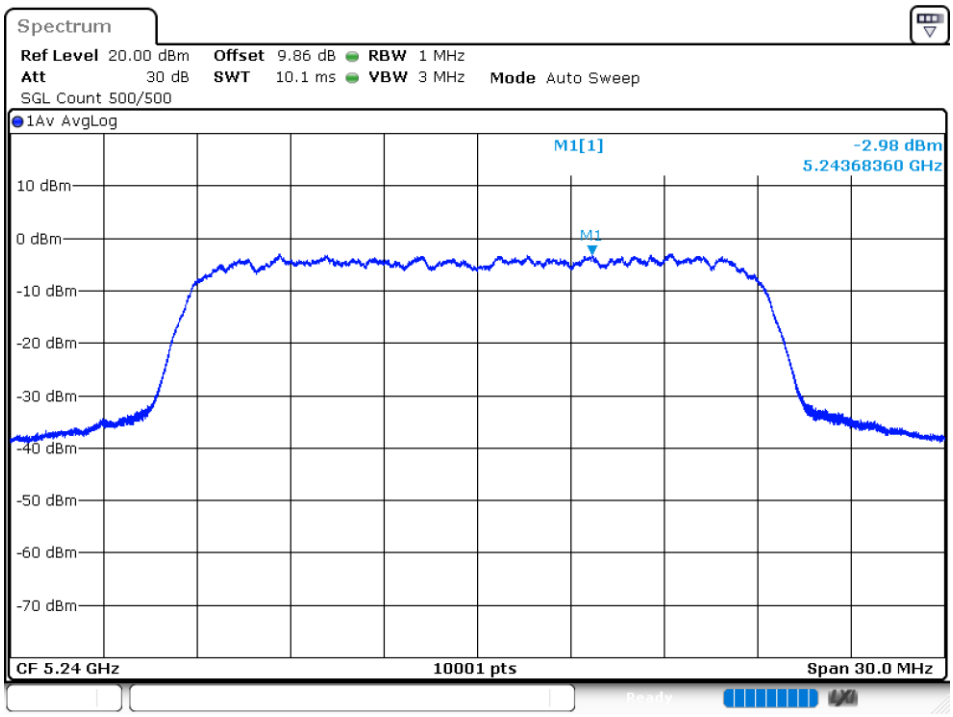
PSD NVNT n20 5180MHz Ant1



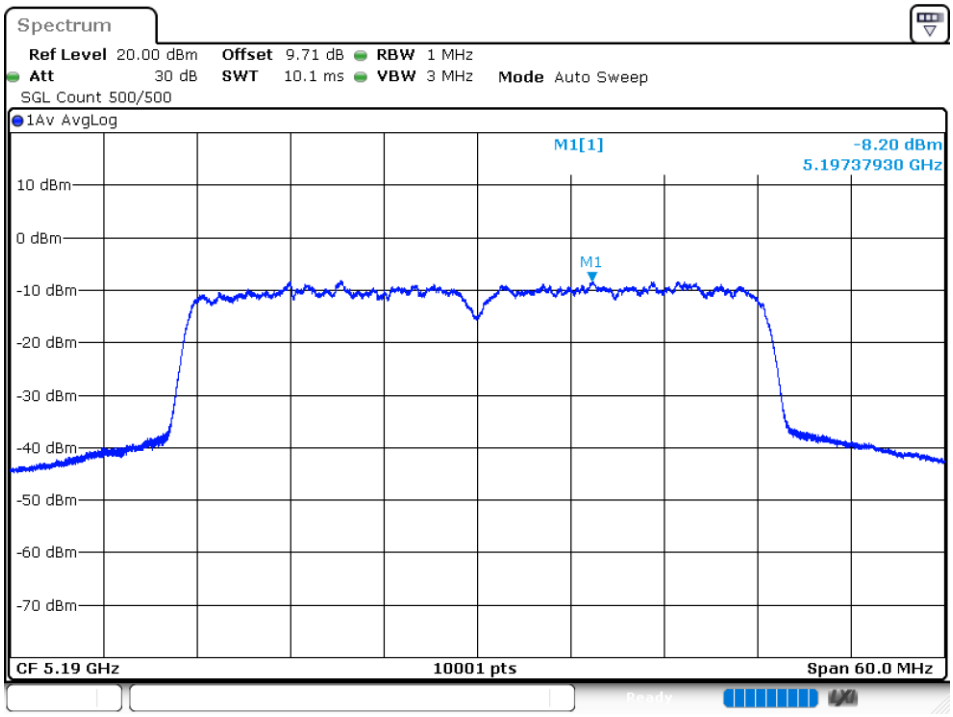
PSD NVNT n20 5200MHz Ant1



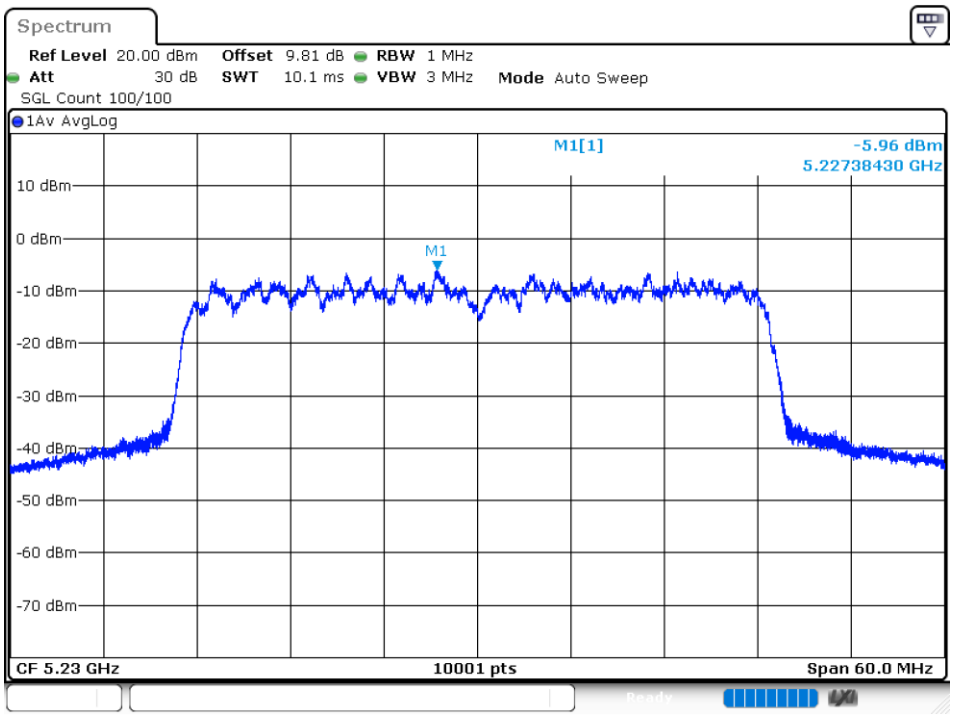
PSD NVNT n20 5240MHz Ant1



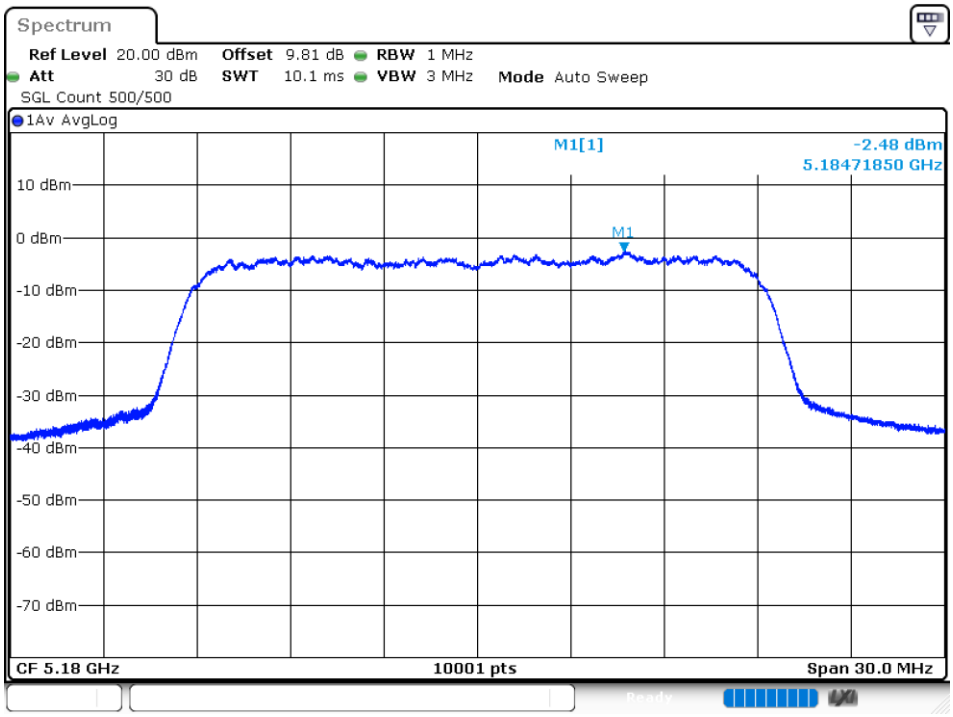
PSD NVNT n40 5190MHz Ant1



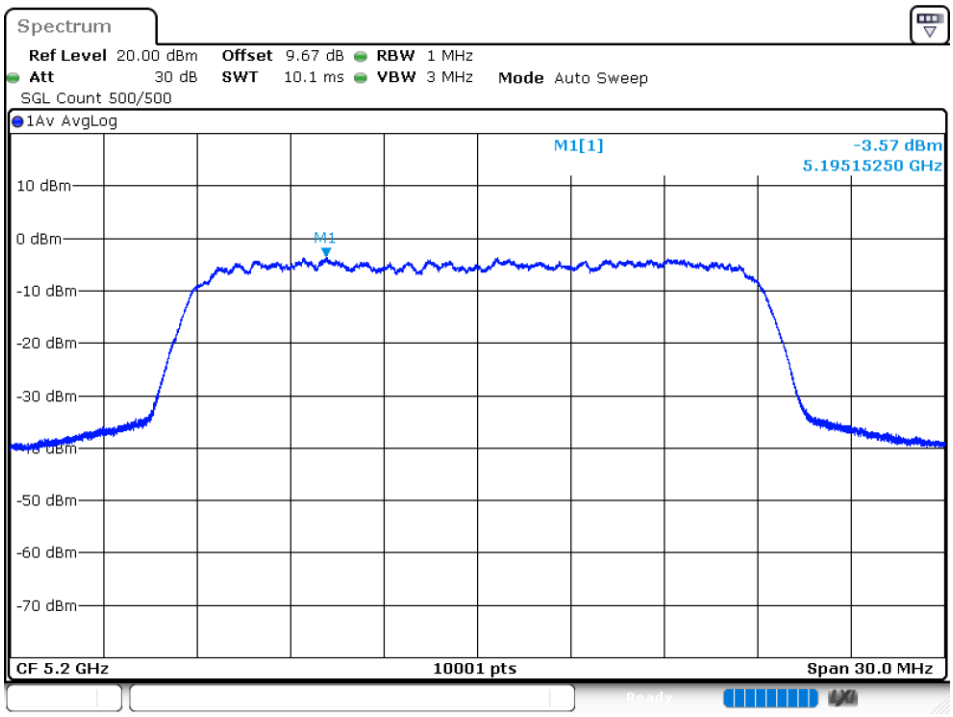
PSD NVNT n40 5230MHz Ant1



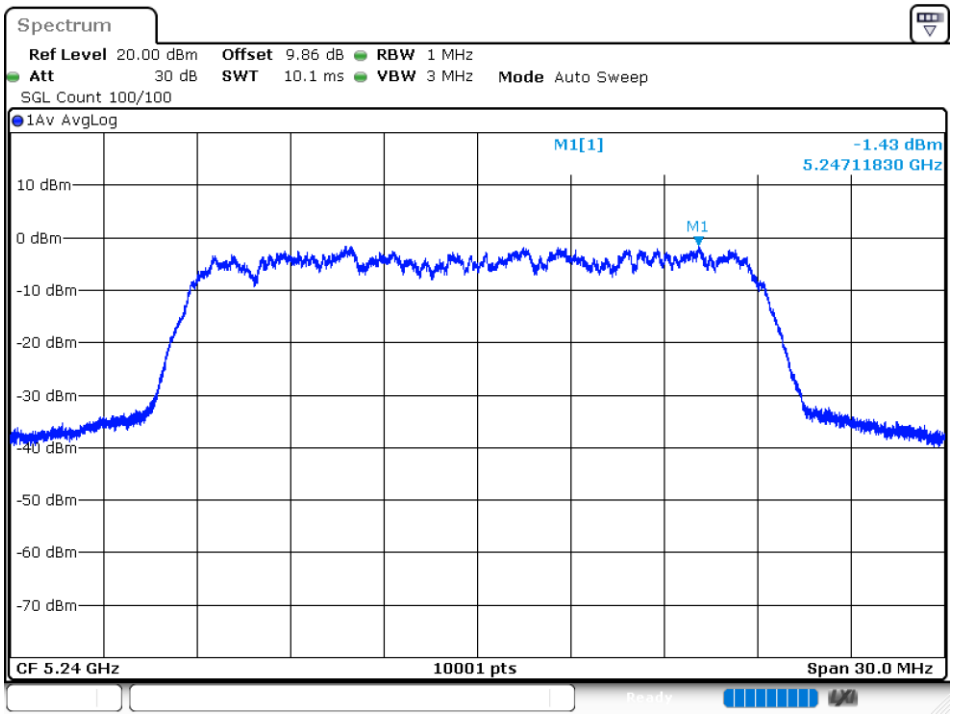
PSD NVNT ac20 5180MHz Ant1



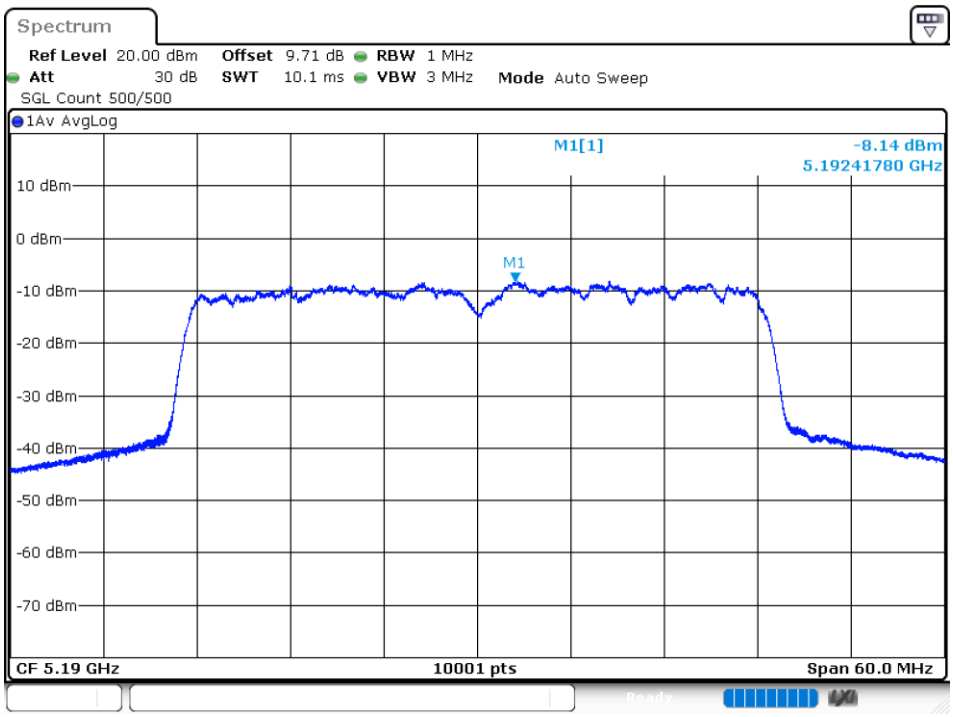
PSD NVNT ac20 5200MHz Ant1



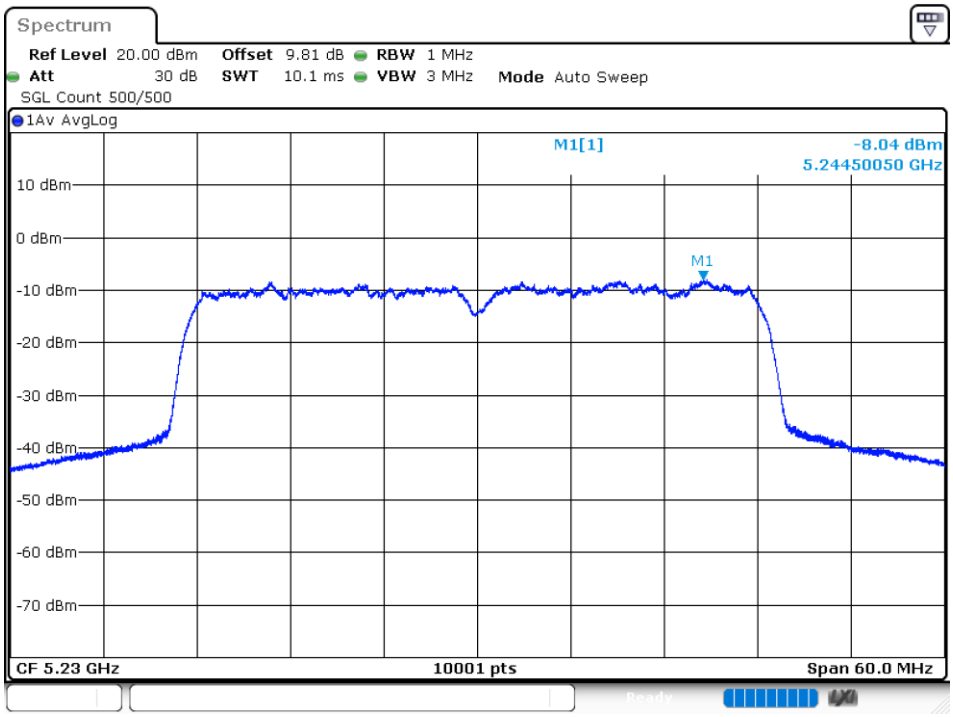
PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1

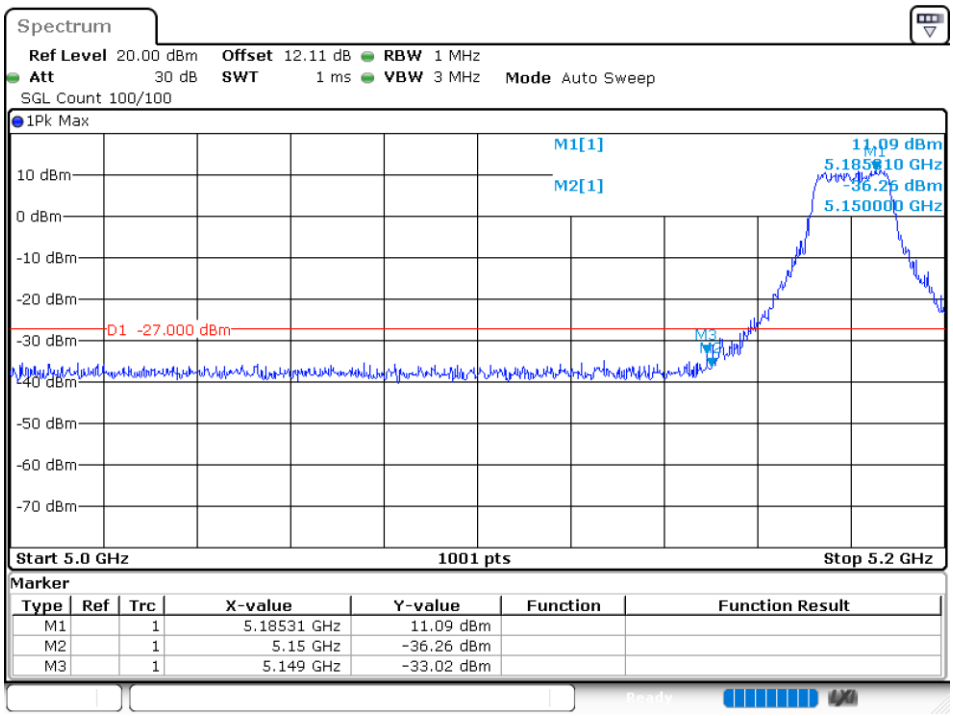


Band Edge

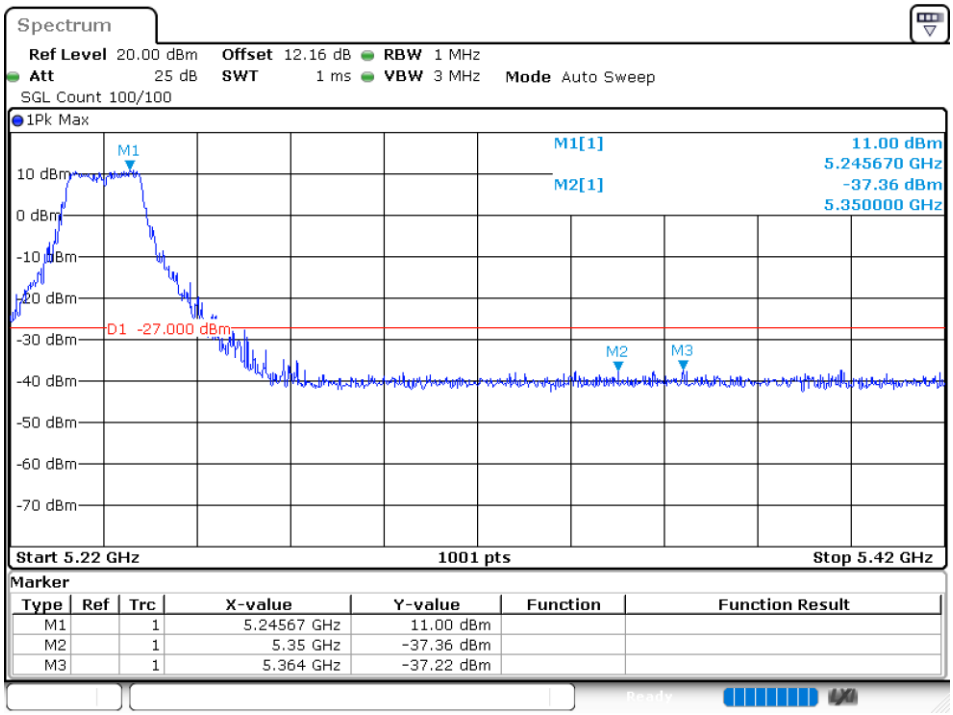
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-33.02	-27	Pass
NVNT	a	5240	Ant1	-37.21	-27	Pass
NVNT	n20	5180	Ant1	-30.36	-27	Pass
NVNT	n20	5240	Ant1	-37.22	-27	Pass
NVNT	n40	5190	Ant1	-29.02	-27	Pass
NVNT	n40	5230	Ant1	-34.72	-27	Pass
NVNT	ac20	5180	Ant1	-31.72	-27	Pass
NVNT	ac20	5240	Ant1	-37.77	-27	Pass
NVNT	ac40	5190	Ant1	-28.49	-27	Pass
NVNT	ac40	5230	Ant1	-37.31	-27	Pass

Test Graphs

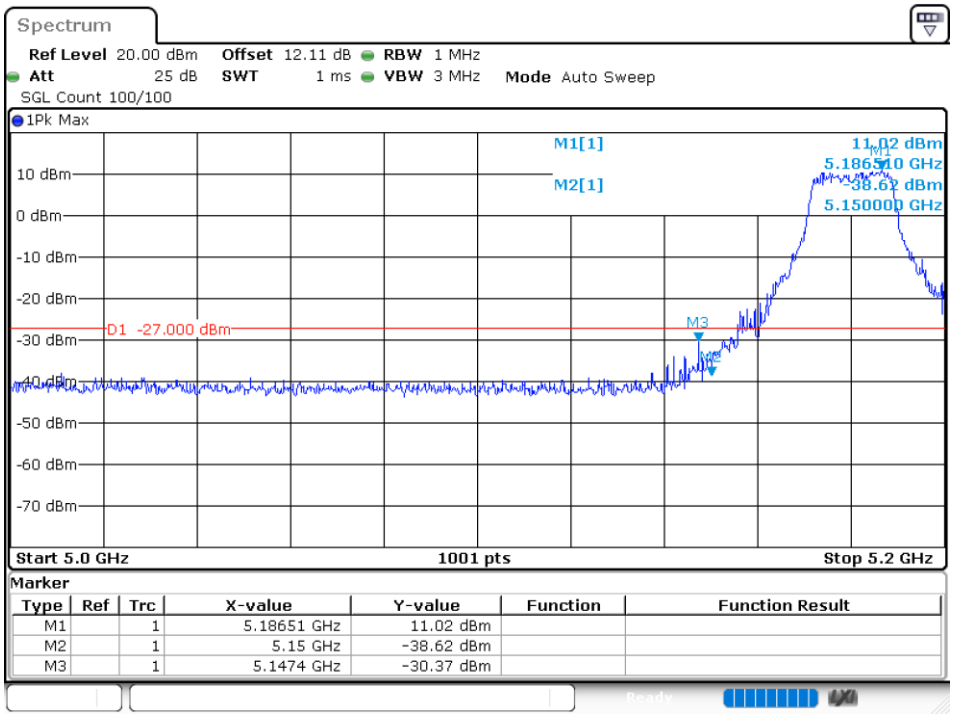
Band Edge NVNT a 5180MHz Low Ant1



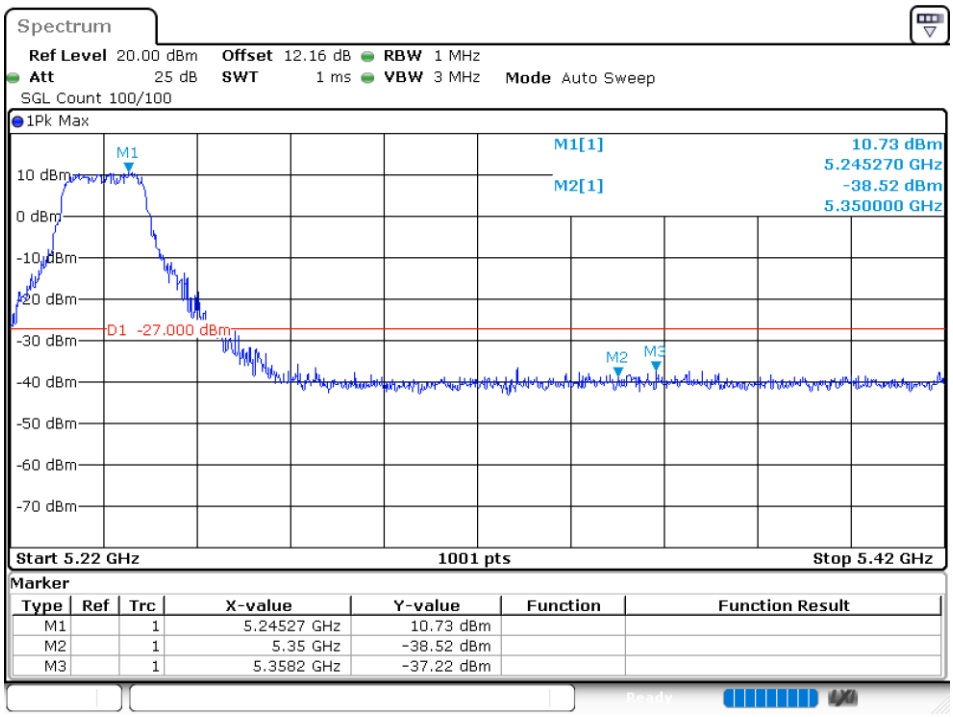
Band Edge NVNT a 5240MHz High Ant1



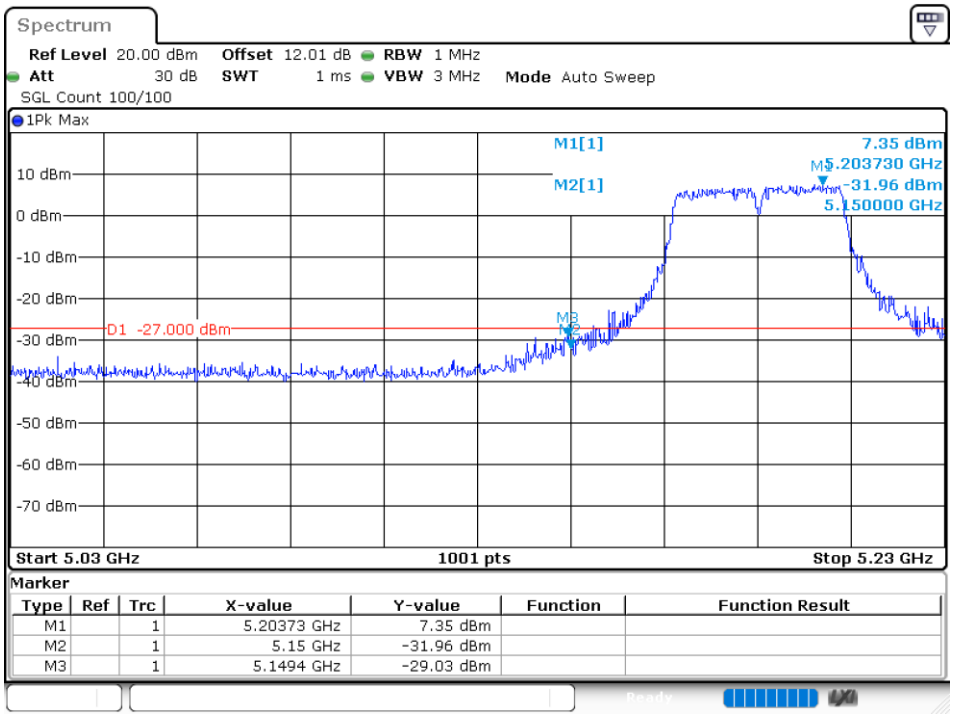
Band Edge NVNT n20 5180MHz Low Ant1



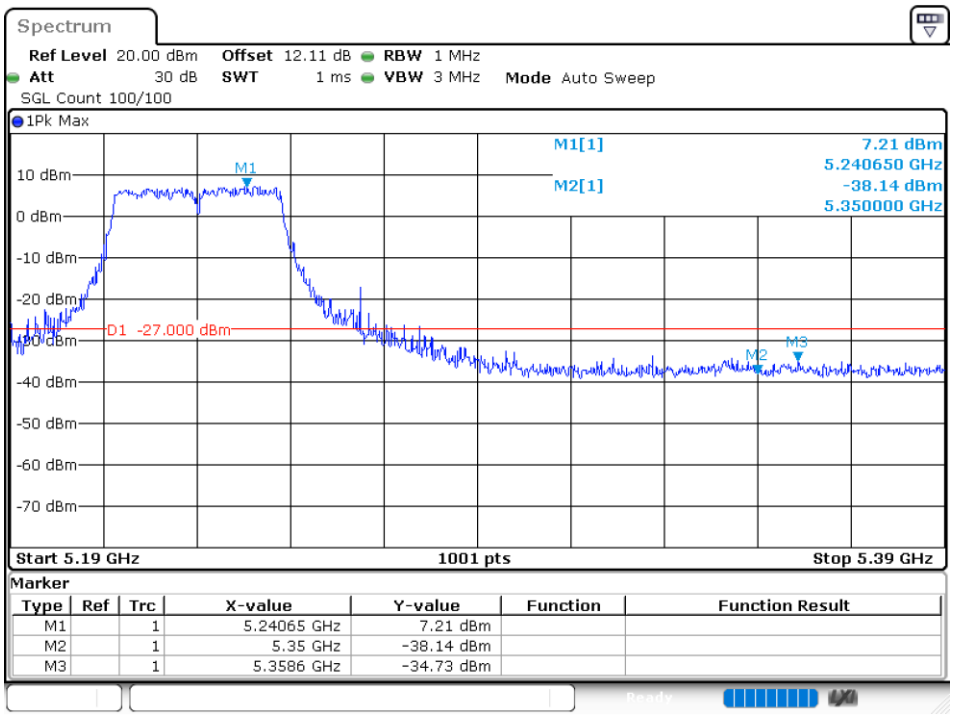
Band Edge NVNT n20 5240MHz High Ant1



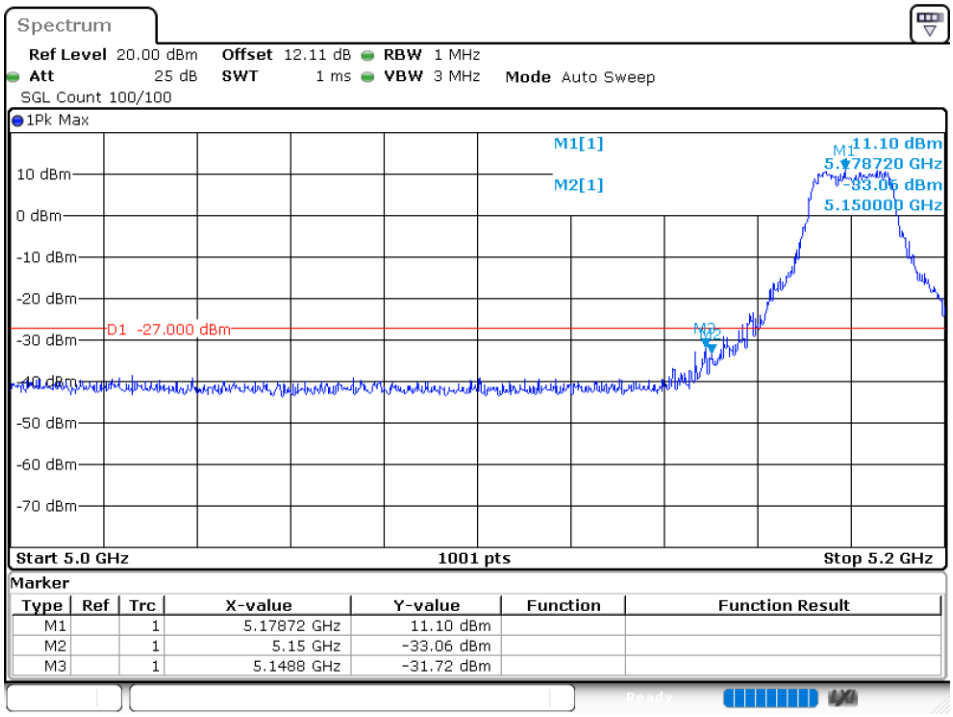
Band Edge NVNT n40 5190MHz Low Ant1



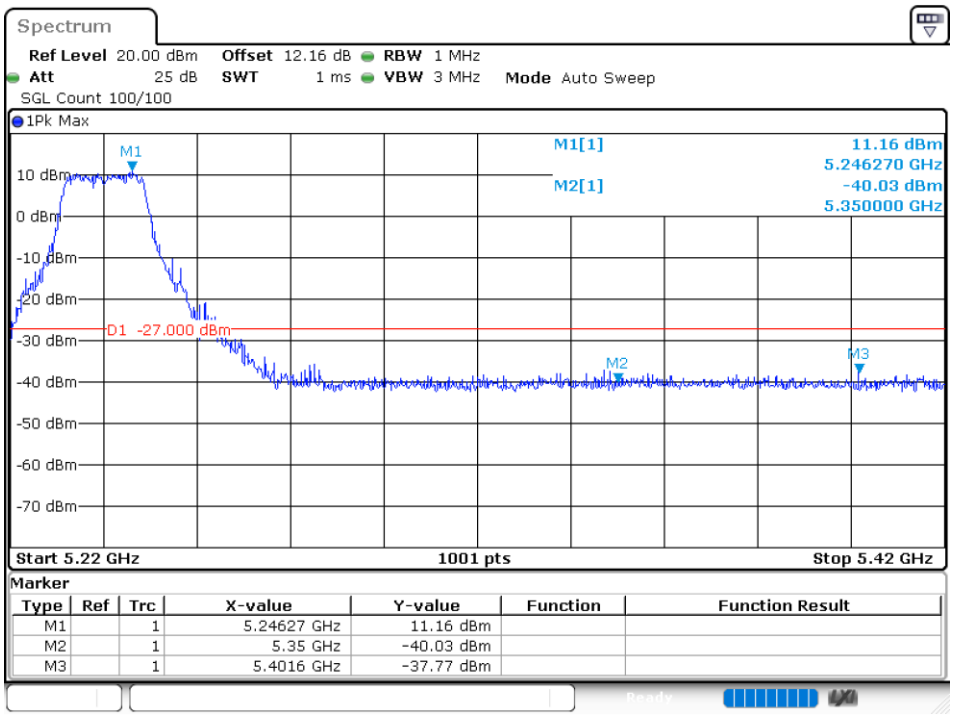
Band Edge NVNT n40 5230MHz High Ant1



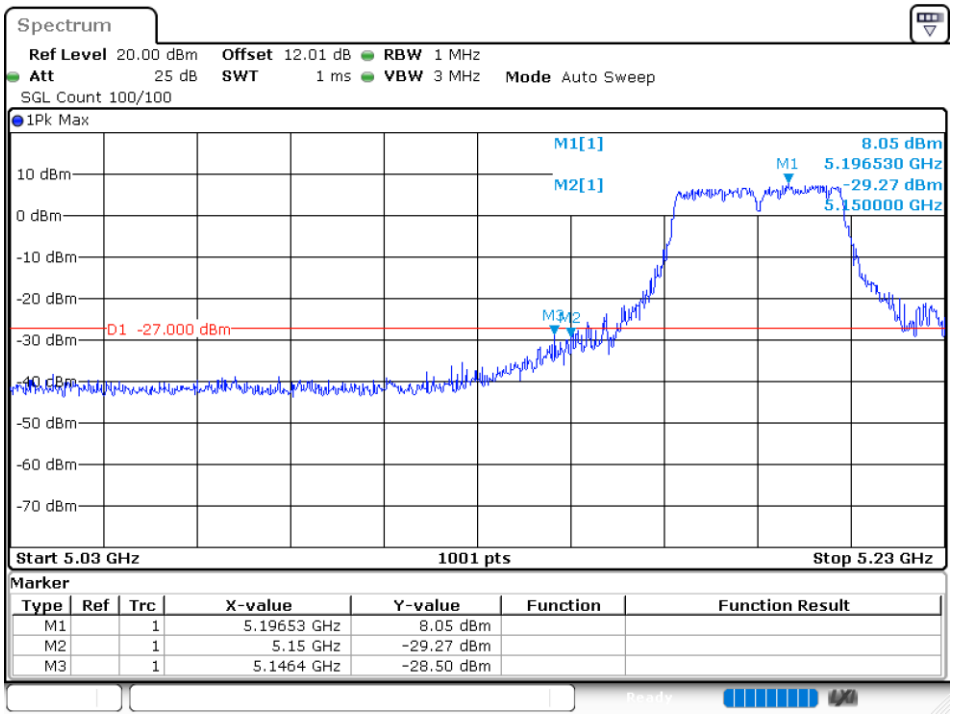
Band Edge NVNT ac20 5180MHz Low Ant1



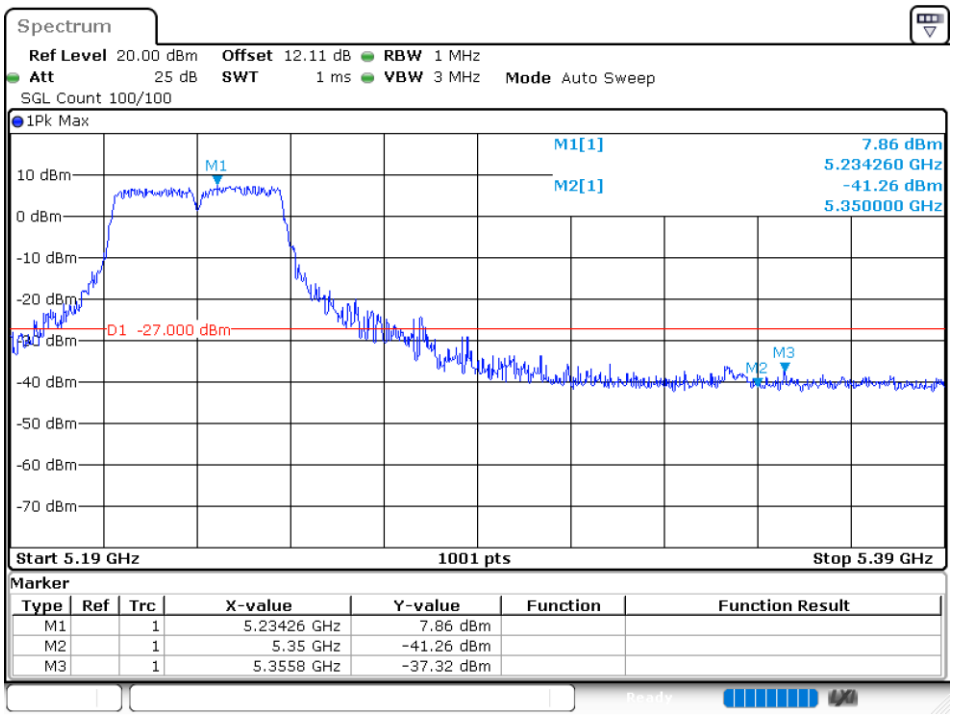
Band Edge NVNT ac20 5240MHz High Ant1



Band Edge NVNT ac40 5190MHz Low Ant1



Band Edge NVNT ac40 5230MHz High Ant1

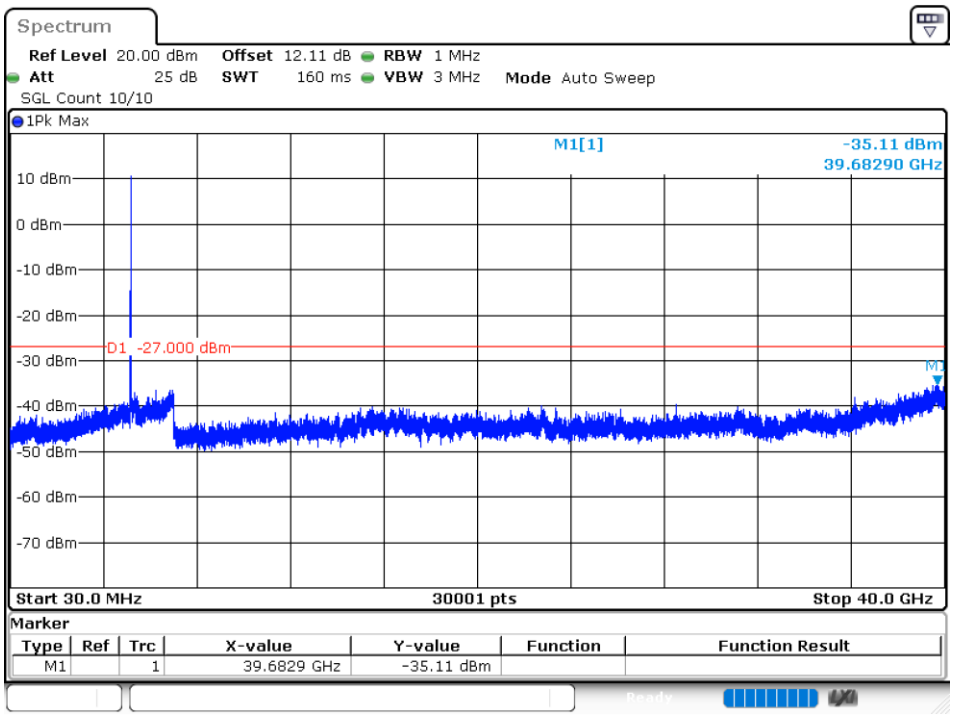


Conducted RF Spurious Emission

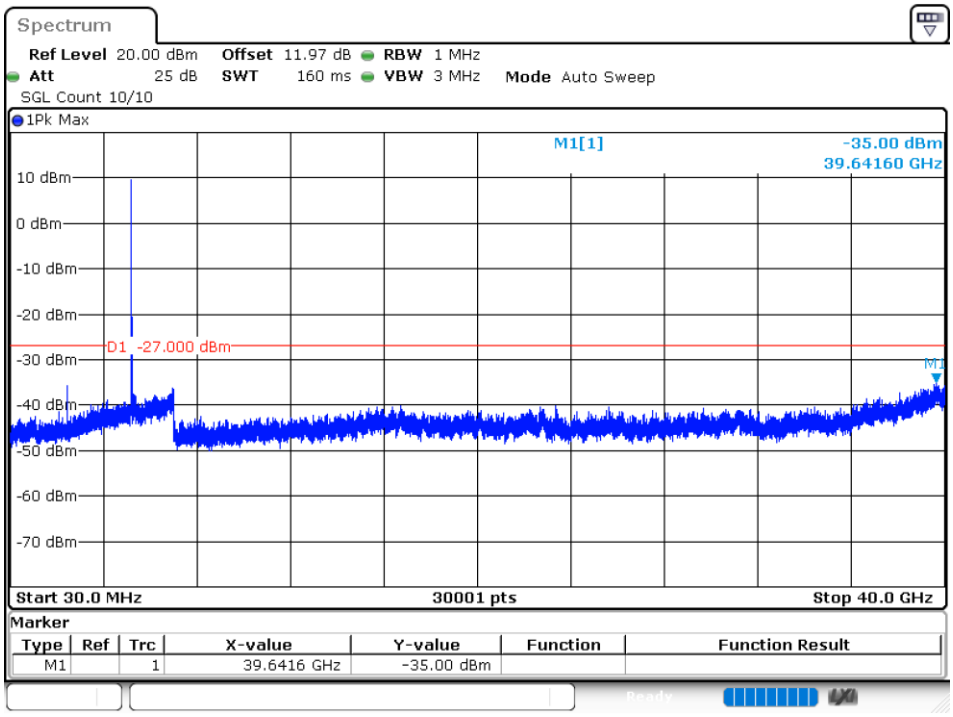
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-35.11	-27	Pass
NVNT	a	5200	Ant1	-34.99	-27	Pass
NVNT	a	5240	Ant1	-34.45	-27	Pass
NVNT	n20	5180	Ant1	-34.8	-27	Pass
NVNT	n20	5200	Ant1	-34.46	-27	Pass
NVNT	n20	5240	Ant1	-34.02	-27	Pass
NVNT	n40	5190	Ant1	-34.58	-27	Pass
NVNT	n40	5230	Ant1	-35.36	-27	Pass
NVNT	ac20	5180	Ant1	-35.71	-27	Pass
NVNT	ac20	5200	Ant1	-33.78	-27	Pass
NVNT	ac20	5240	Ant1	-33.77	-27	Pass
NVNT	ac40	5190	Ant1	-34.55	-27	Pass
NVNT	ac40	5230	Ant1	-34.8	-27	Pass

Test Graphs

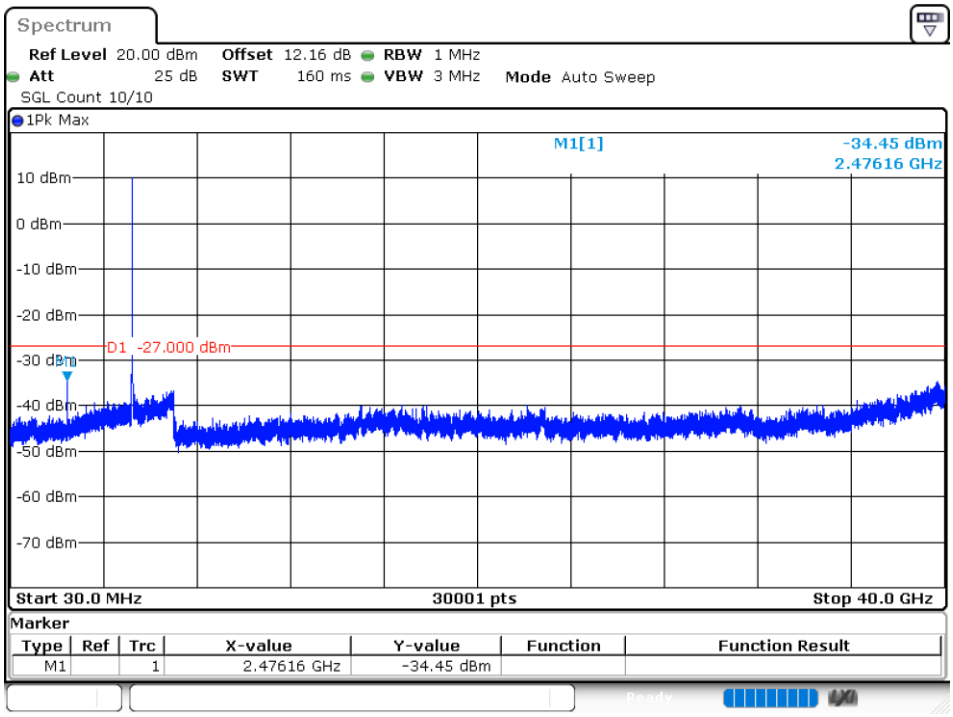
Tx. Spurious NVNT a 5180MHz Ant1 Emission



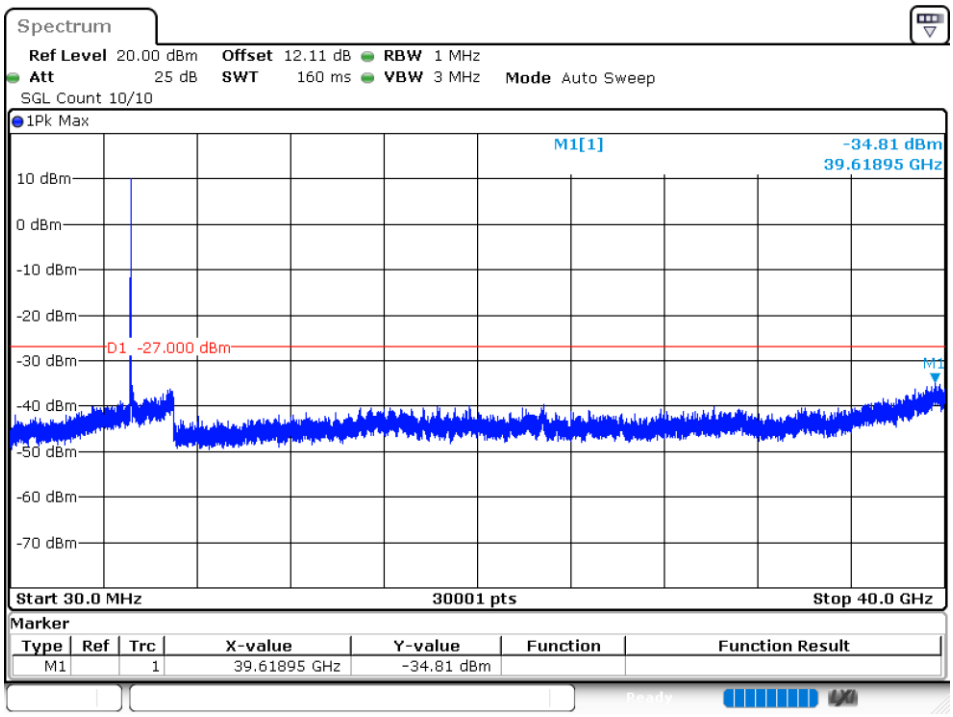
Tx. Spurious NVNT a 5200MHz Ant1 Emission



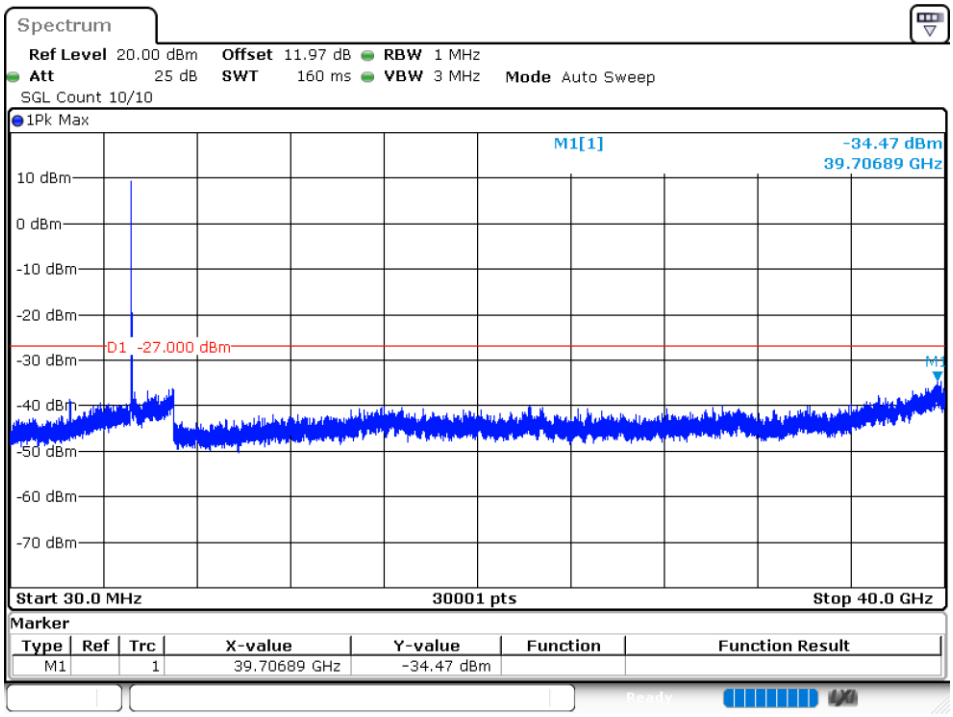
Tx. Spurious NVNT a 5240MHz Ant1 Emission



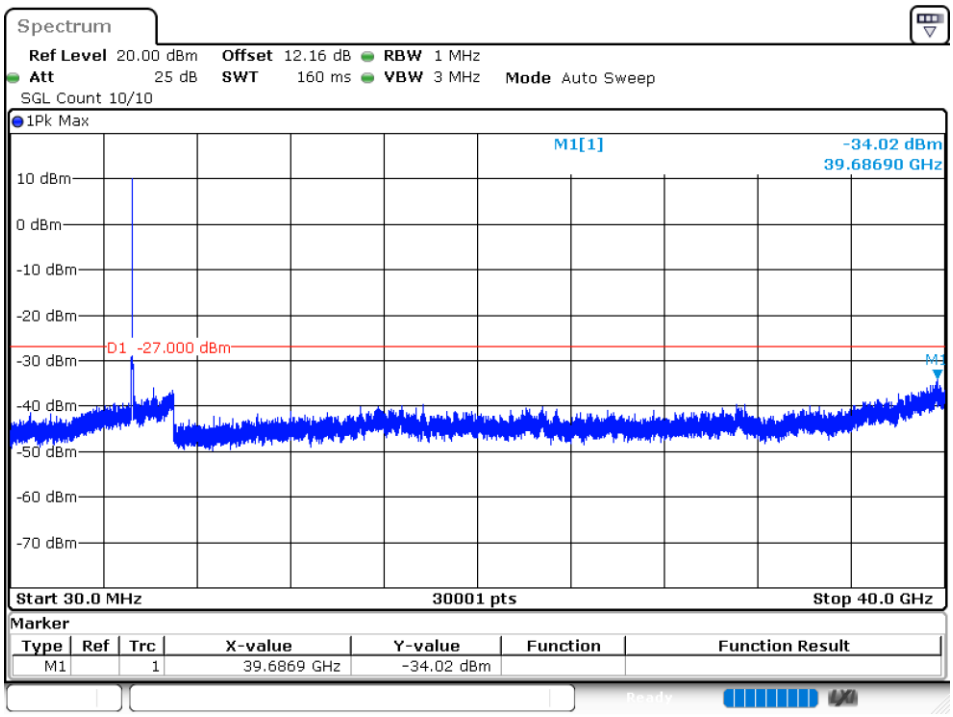
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



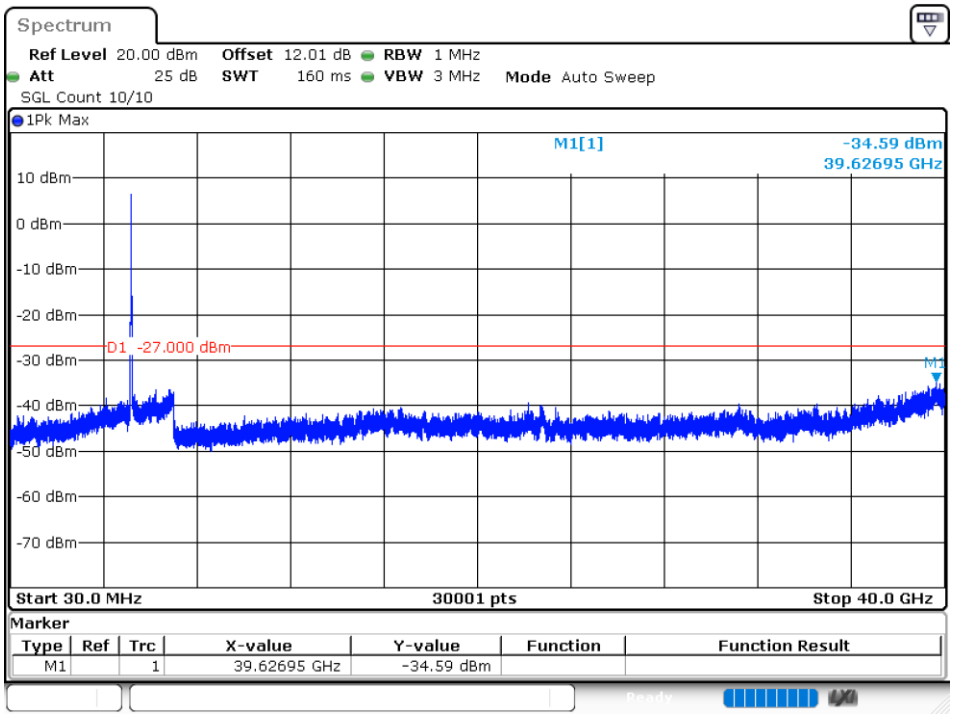
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



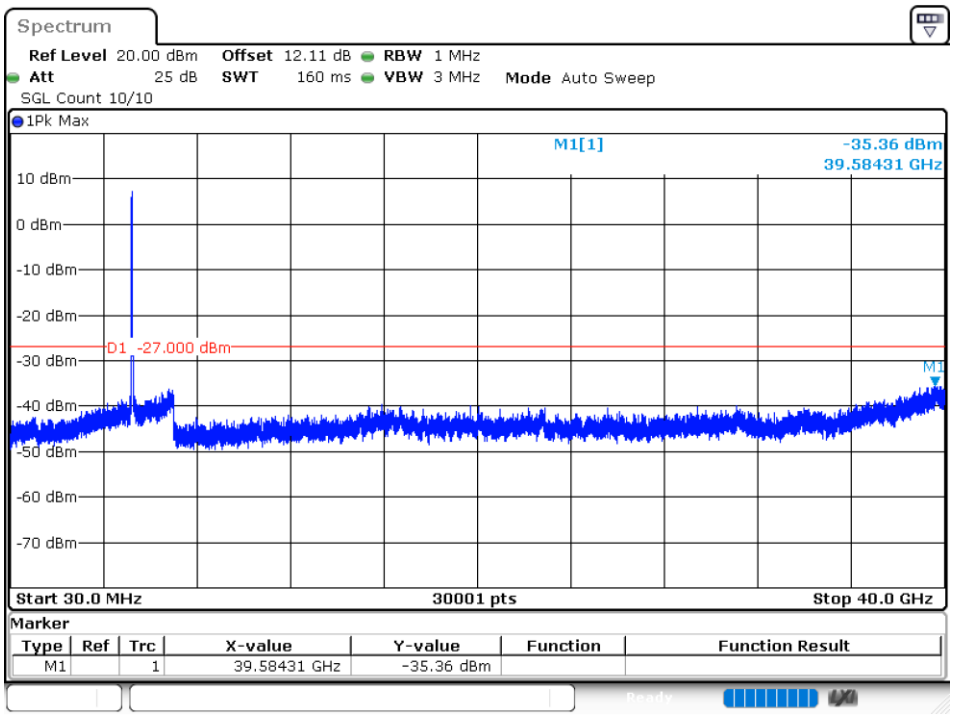
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



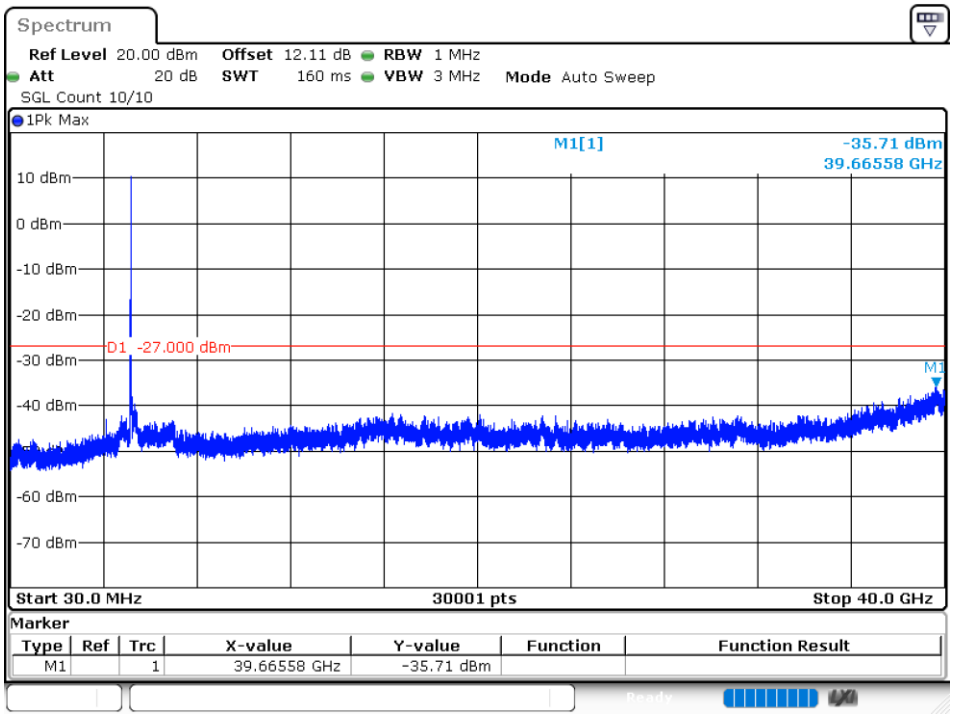
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



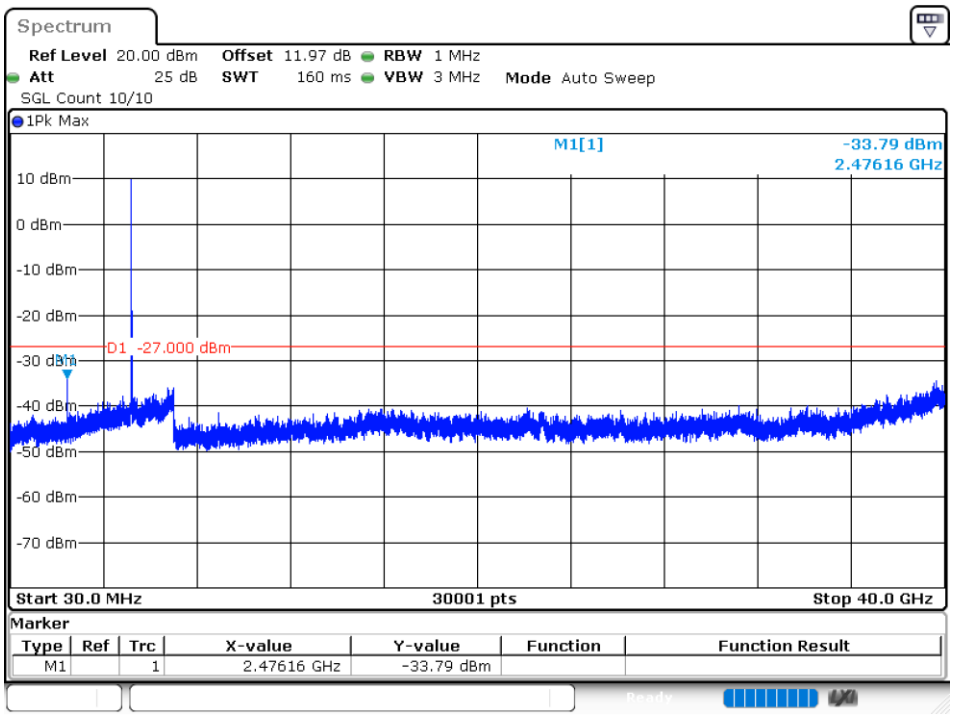
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



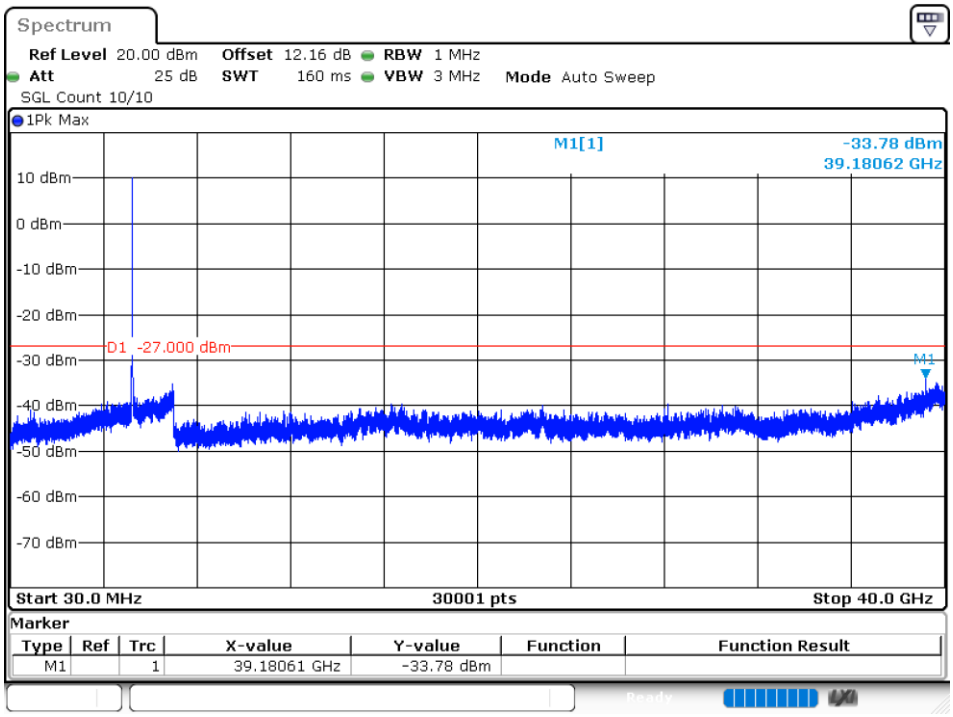
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



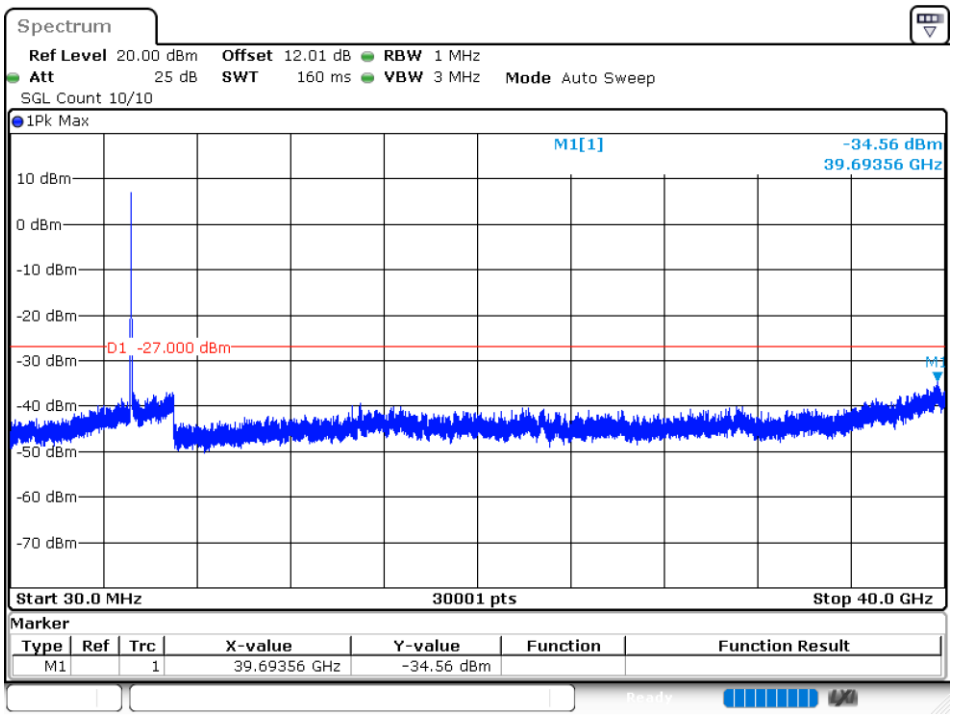
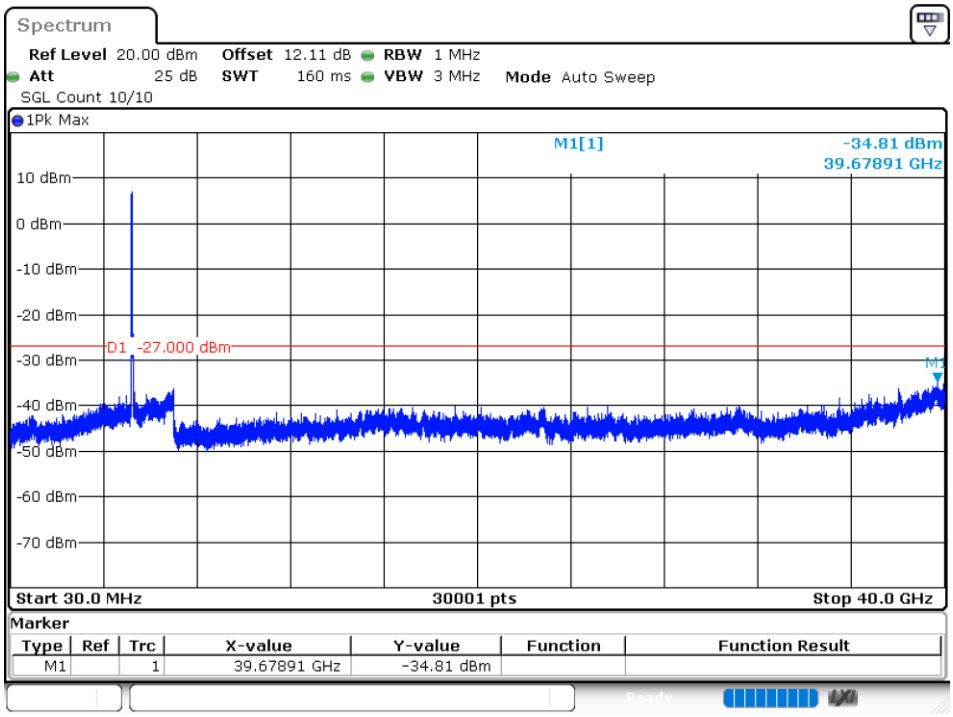
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission