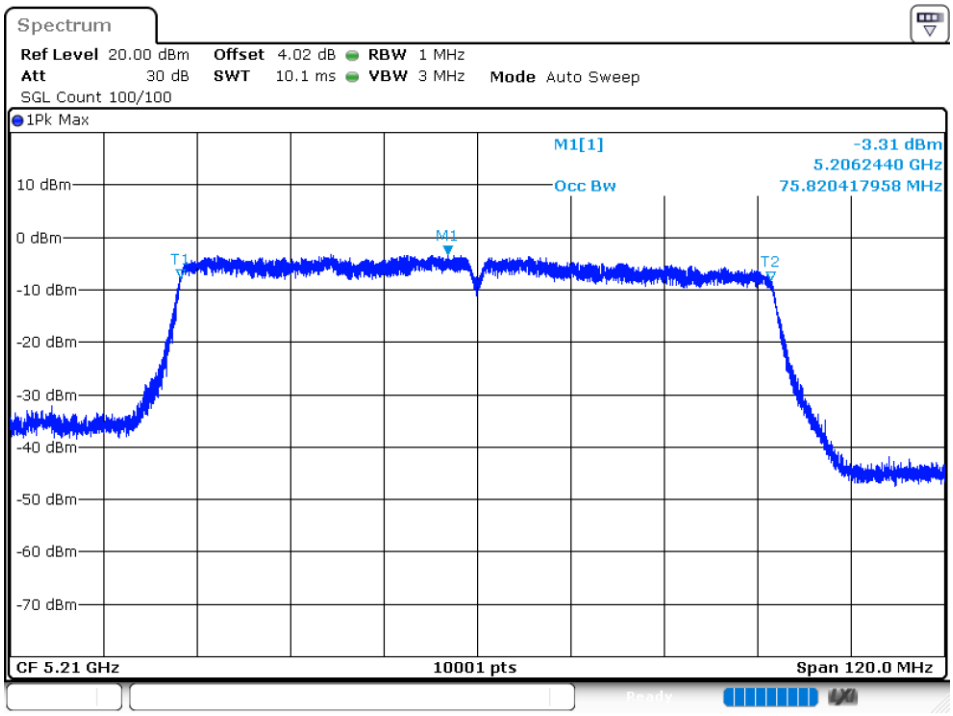
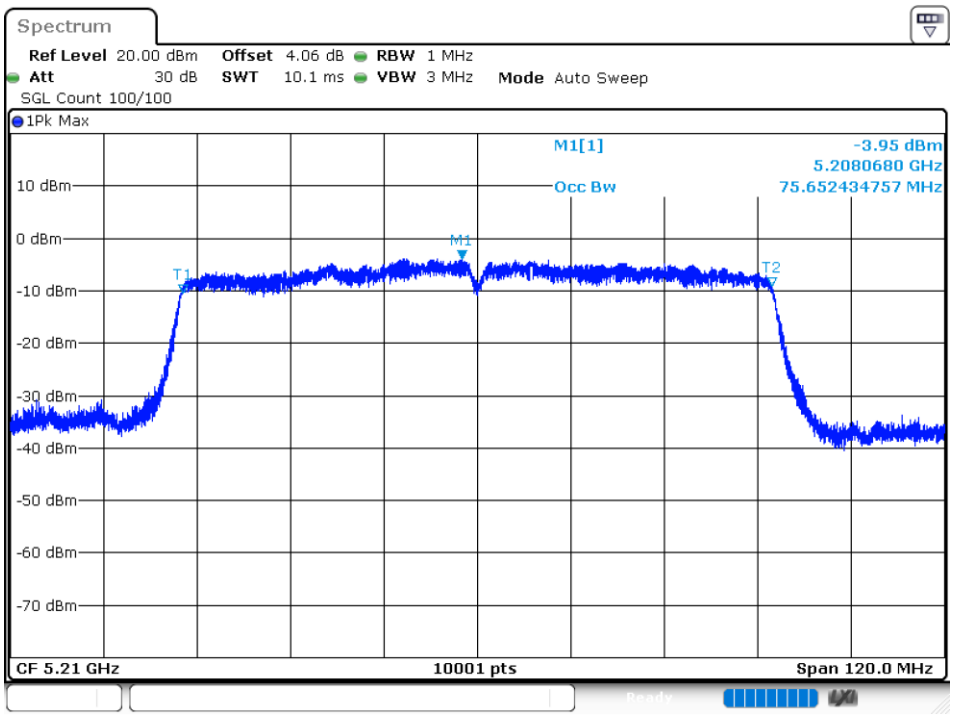
OBW NVNT ac80 5210MHz Ant1



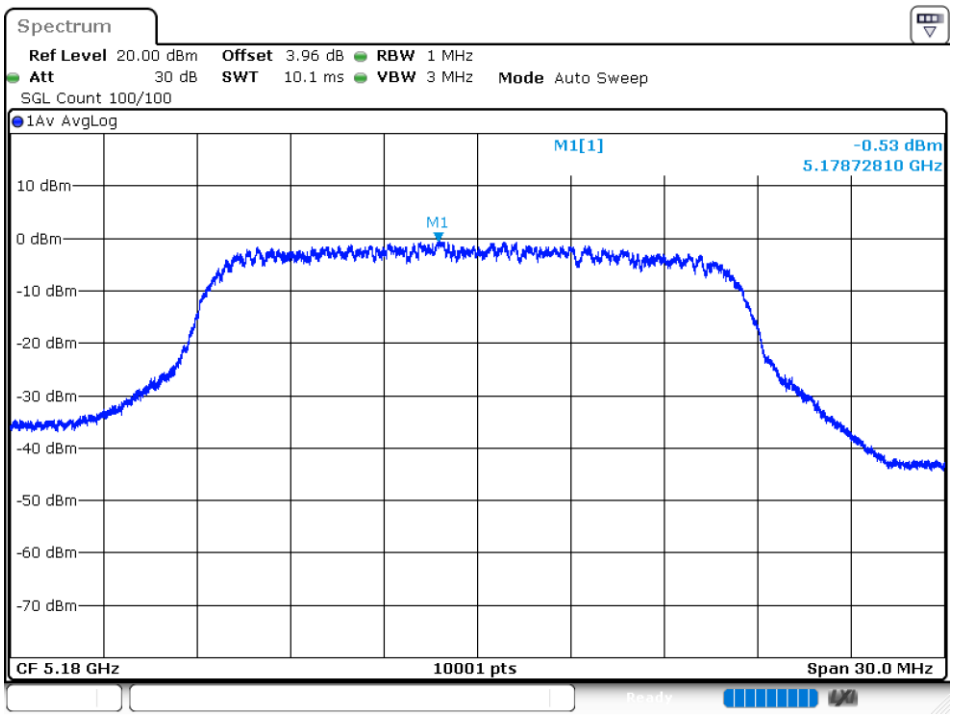
OBW NVNT ac80 5210MHz Ant2



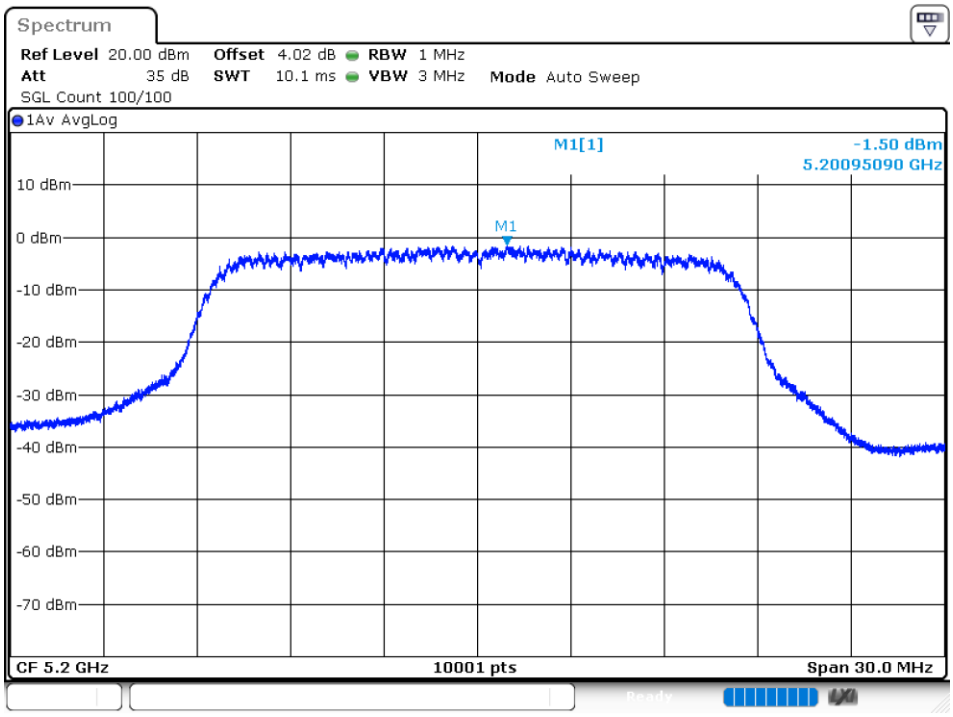
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.53	0.06	-0.47	11	Pass
NVNT	a	5200	Ant1	-1.5	0.06	-1.44	11	Pass
NVNT	a	5240	Ant1	-0.6	0.06	-0.54	11	Pass
NVNT	a	5180	Ant2	-2.54	0.06	-2.48	11	Pass
NVNT	a	5200	Ant2	-1.04	0.06	-0.98	11	Pass
NVNT	a	5240	Ant2	-0.63	0.06	-0.57	11	Pass
NVNT	n20	5180	Ant1	-0.9	0.06	-0.84	11	Pass
NVNT	n20	5200	Ant1	-1.87	0.06	-1.81	11	Pass
NVNT	n20	5240	Ant1	-1.42	0.06	-1.36	11	Pass
NVNT	n20	5180	Ant2	-4.01	0.06	-3.95	11	Pass
NVNT	n20	5200	Ant2	-2.89	0.06	-2.83	11	Pass
NVNT	n20	5240	Ant2	-2.05	0.06	-1.99	11	Pass
NVNT	n40	5190	Ant1	-8.25	0.12	-8.13	11	Pass
NVNT	n40	5230	Ant1	-7.12	0.12	-7	11	Pass
NVNT	n40	5190	Ant2	-9.63	0.12	-9.51	11	Pass
NVNT	n40	5230	Ant2	-8.26	0.12	-8.14	11	Pass
NVNT	ac20	5180	Ant1	-1.75	0.06	-1.69	11	Pass
NVNT	ac20	5200	Ant1	-2.12	0.06	-2.06	11	Pass
NVNT	ac20	5240	Ant1	-1.22	0.06	-1.16	11	Pass
NVNT	ac20	5180	Ant2	-4.27	0.06	-4.21	11	Pass
NVNT	ac20	5200	Ant2	-2.86	0.06	-2.8	11	Pass
NVNT	ac20	5240	Ant2	-2.18	0.06	-2.12	11	Pass
NVNT	ac40	5190	Ant1	-8.08	0.12	-7.96	11	Pass
NVNT	ac40	5230	Ant1	-6.84	0.12	-6.72	11	Pass
NVNT	ac40	5190	Ant2	-10.31	0.12	-10.19	11	Pass
NVNT	ac40	5230	Ant2	-8.67	0.12	-8.55	11	Pass
NVNT	ac80	5210	Ant1	-13.82	0.36	-13.46	11	Pass
NVNT	ac80	5210	Ant2	-14.88	0.26	-14.62	11	Pass

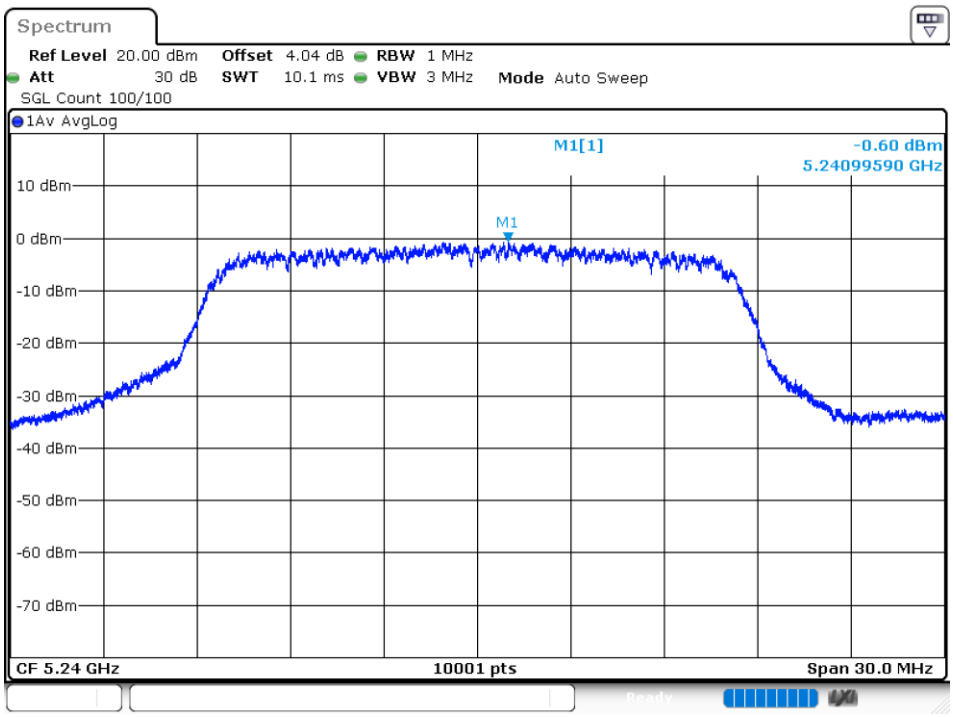
Test Graphs
PSD NVNT a 5180MHz Ant1



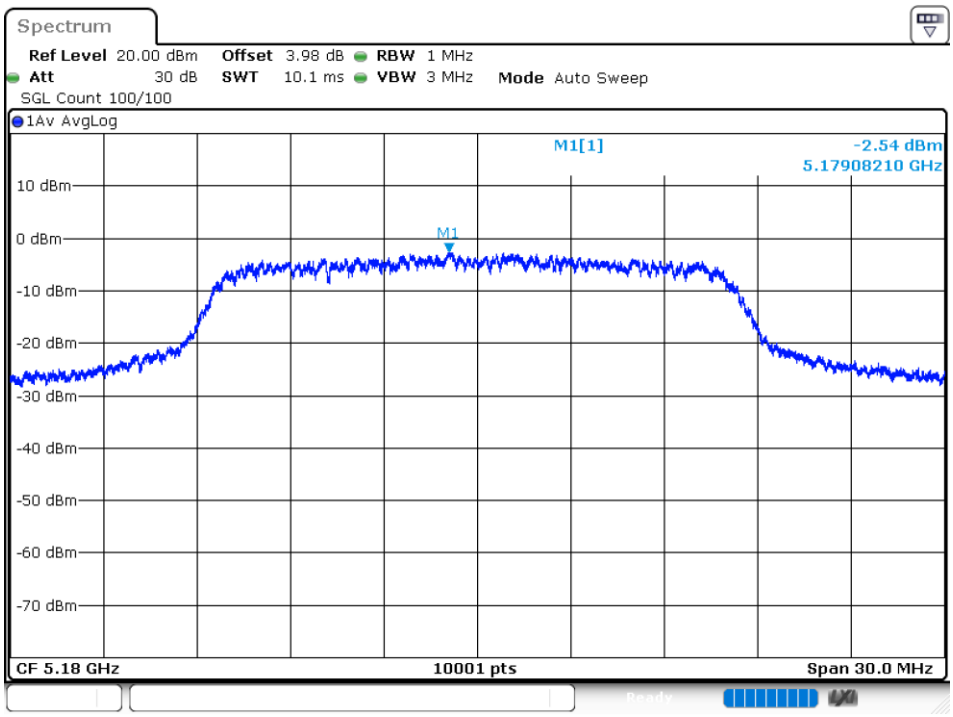
PSD NVNT a 5200MHz Ant1



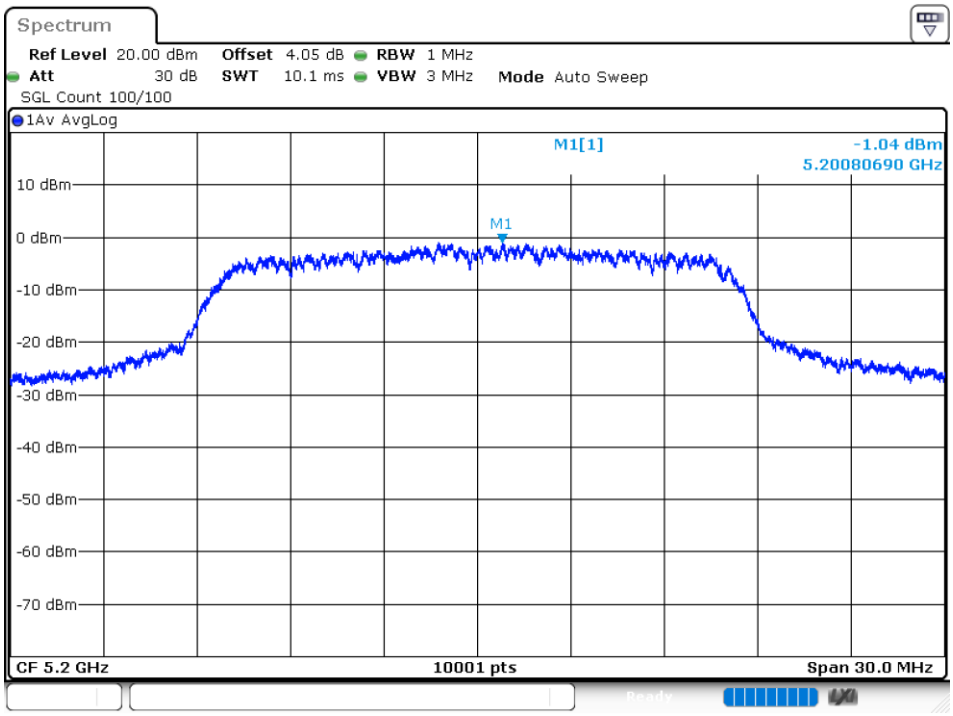
PSD NVNT a 5240MHz Ant1



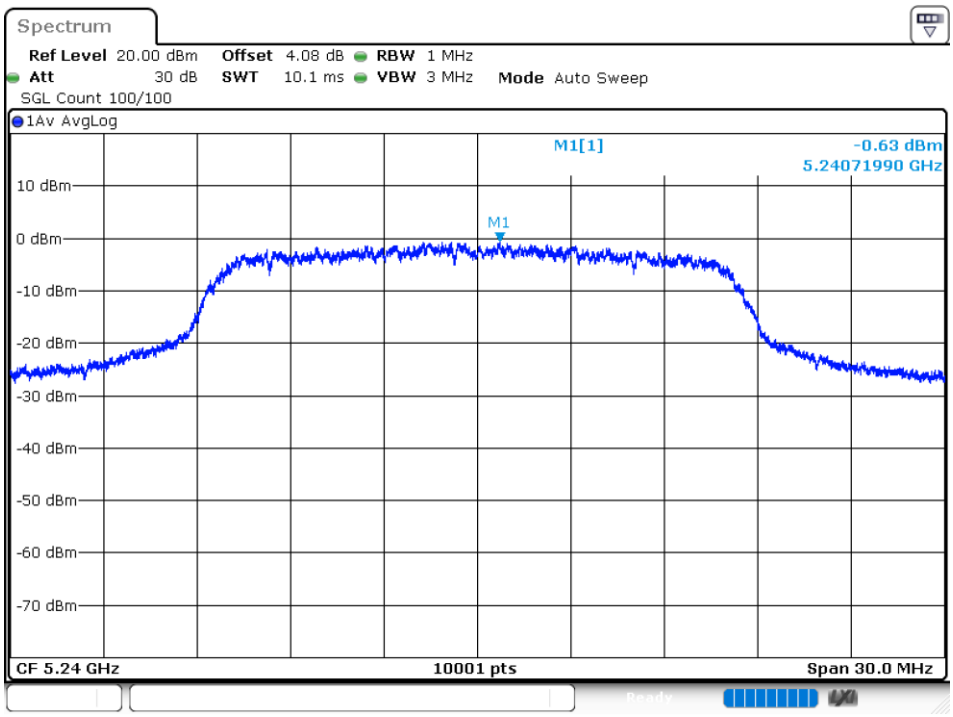
PSD NVNT a 5180MHz Ant2



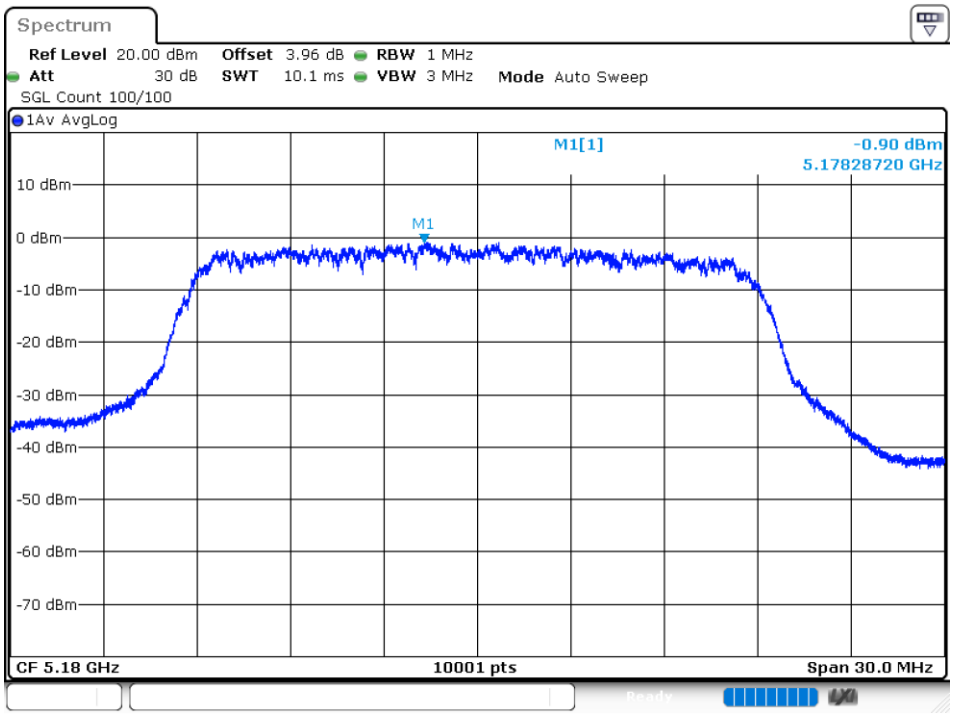
PSD NVNT a 5200MHz Ant2



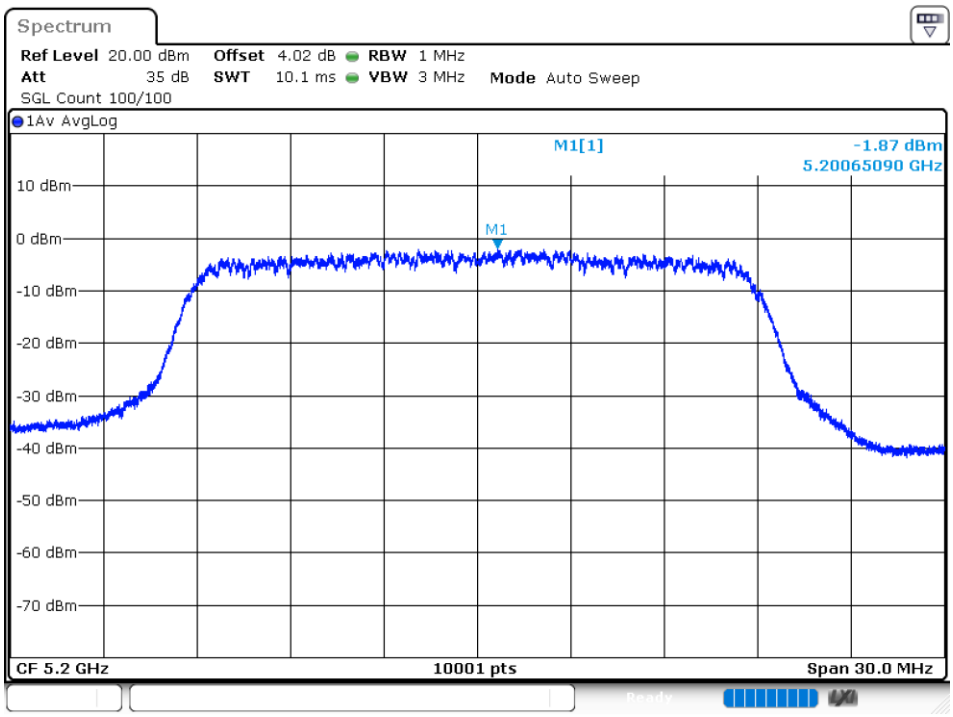
PSD NVNT a 5240MHz Ant2



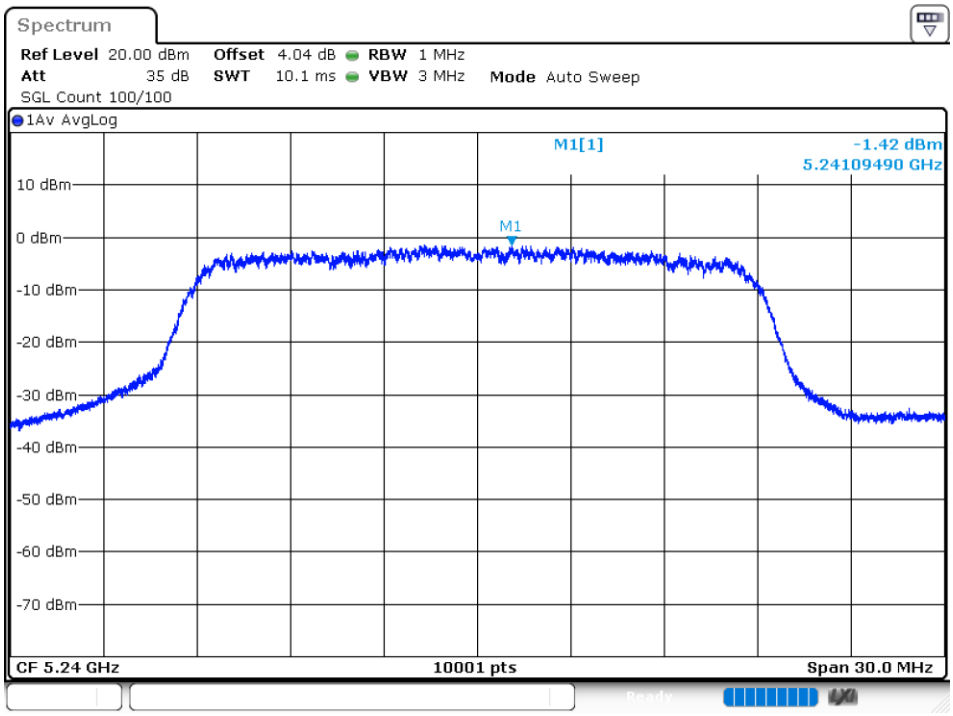
PSD NVNT n20 5180MHz Ant1



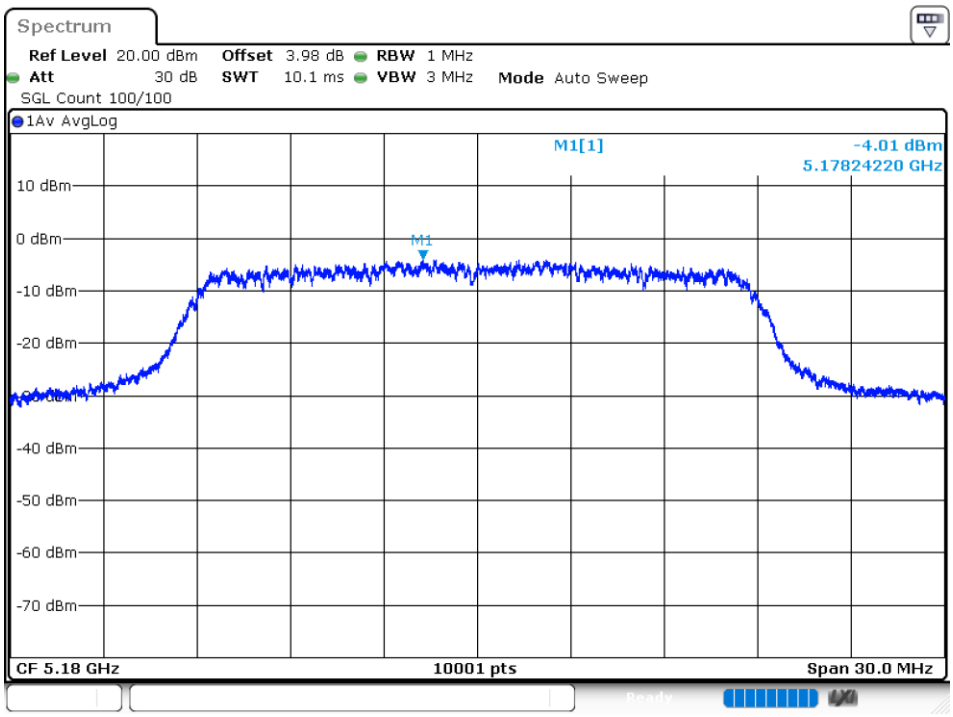
PSD NVNT n20 5200MHz Ant1



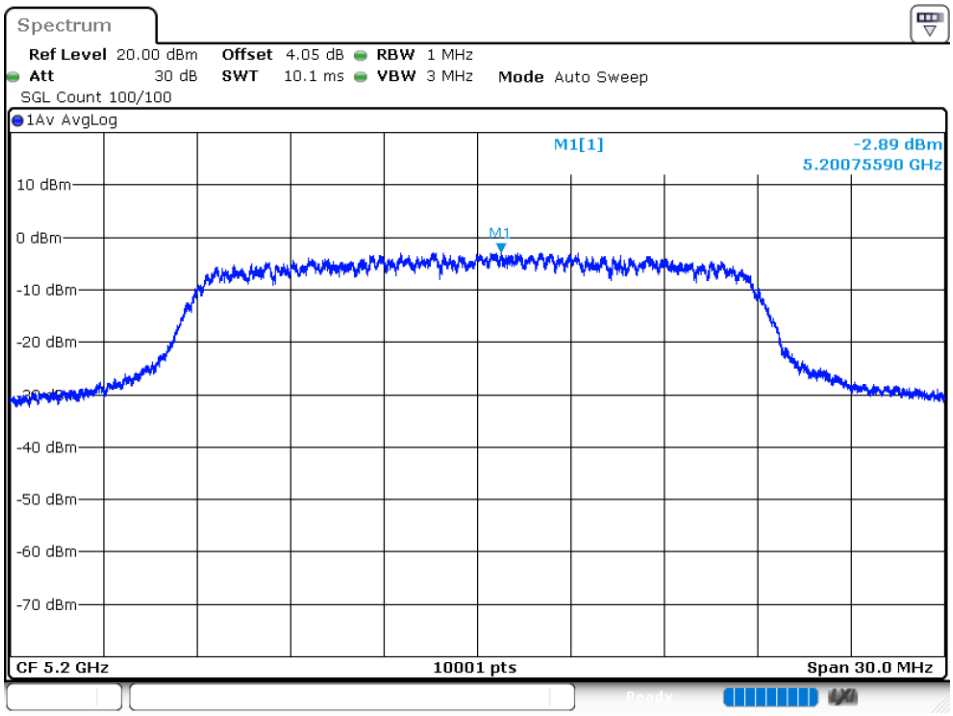
PSD NVNT n20 5240MHz Ant1



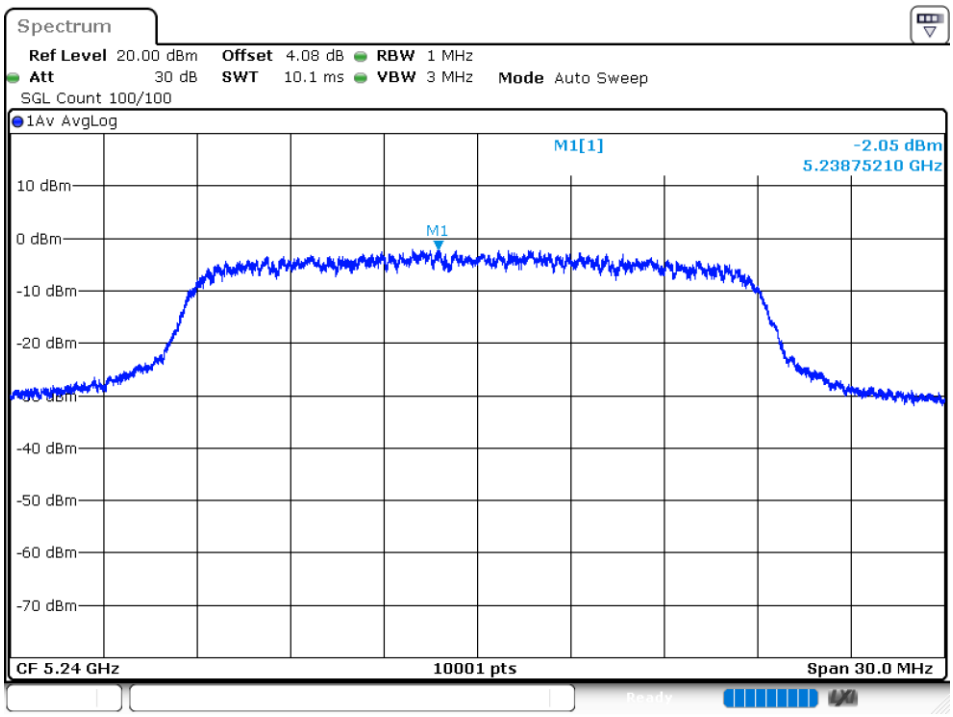
PSD NVNT n20 5180MHz Ant2



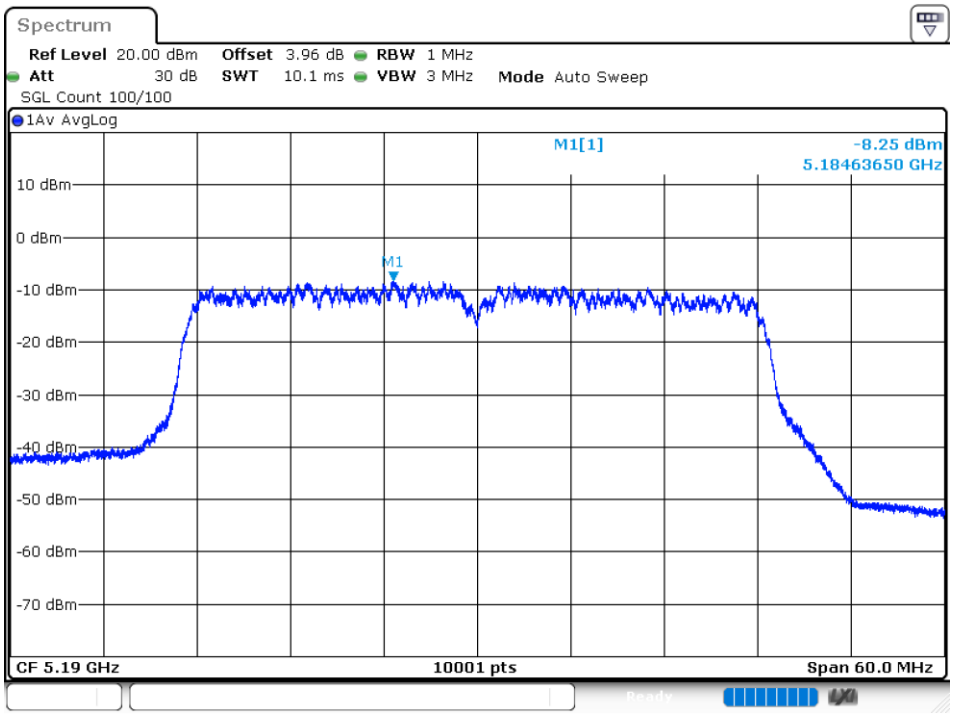
PSD NVNT n20 5200MHz Ant2



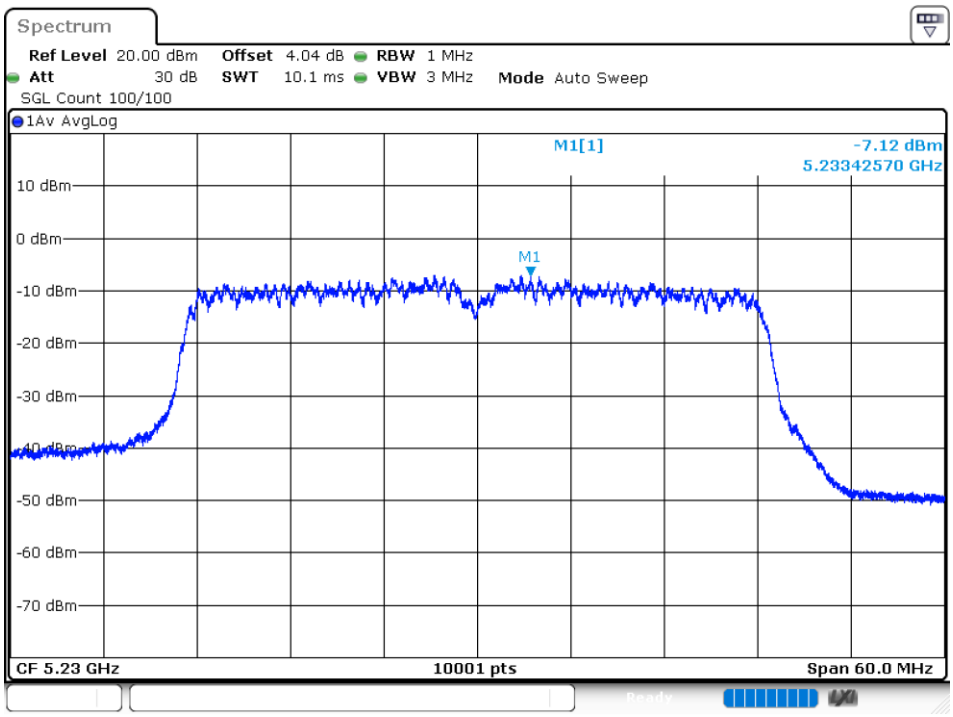
PSD NVNT n20 5240MHz Ant2



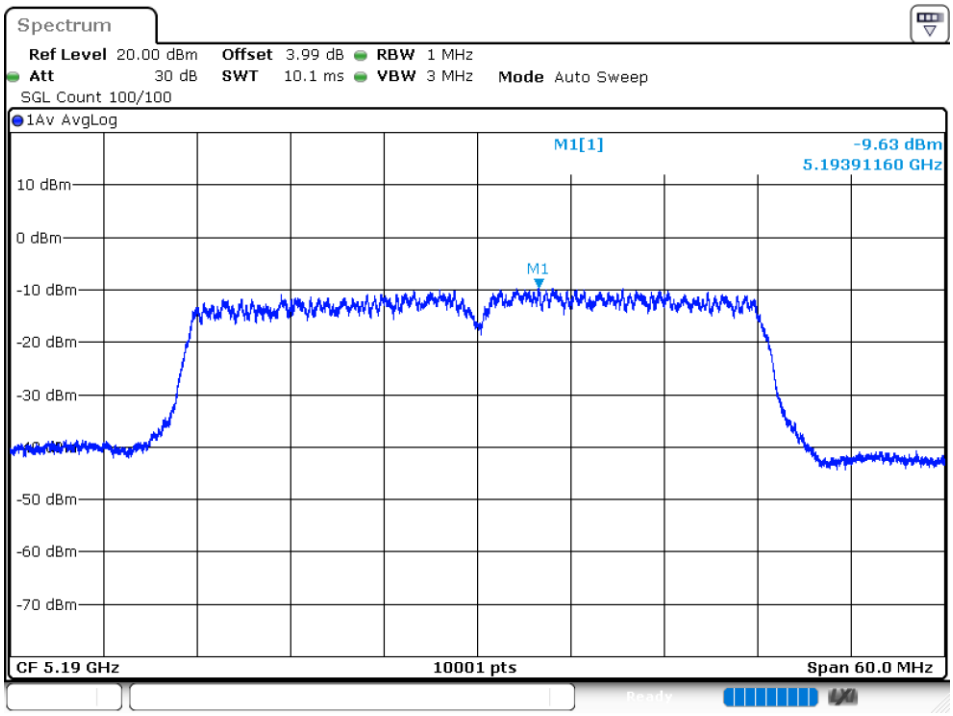
PSD NVNT n40 5190MHz Ant1



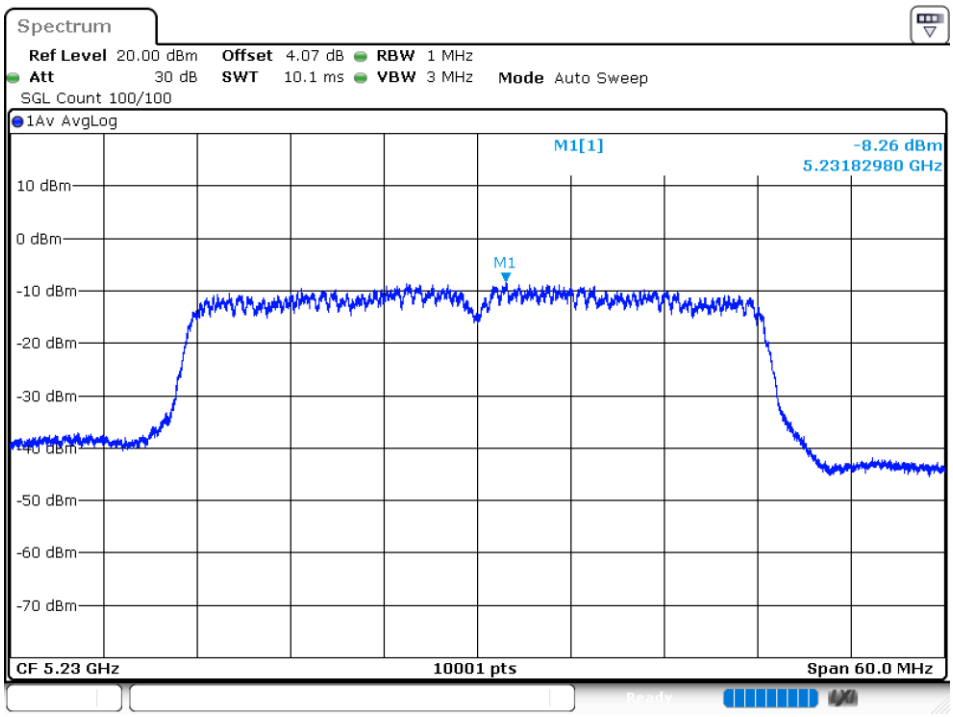
PSD NVNT n40 5230MHz Ant1



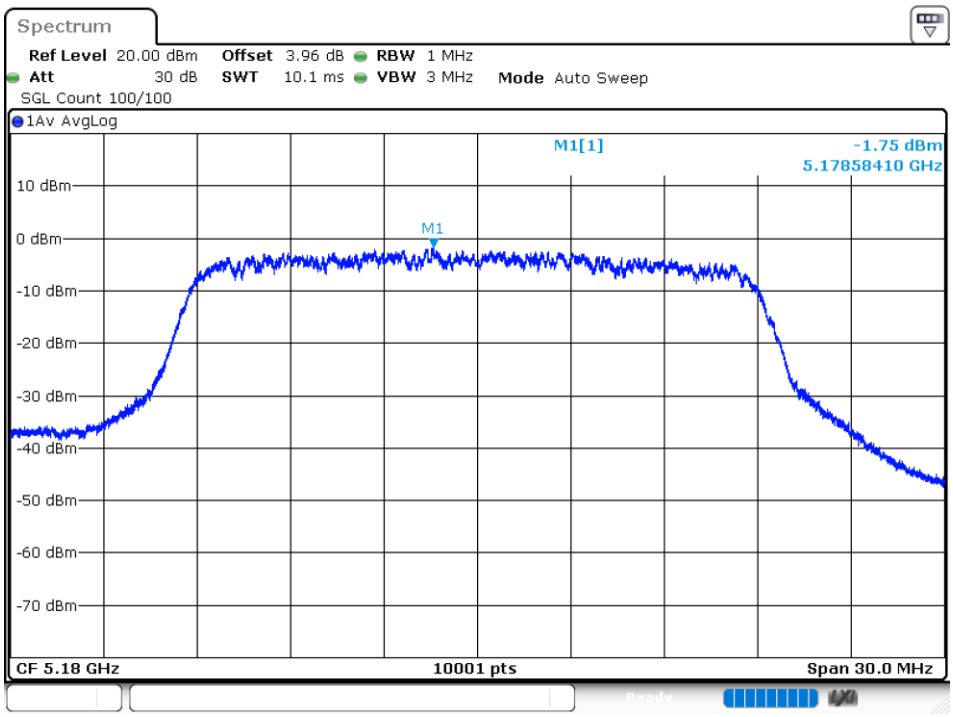
PSD NVNT n40 5190MHz Ant2



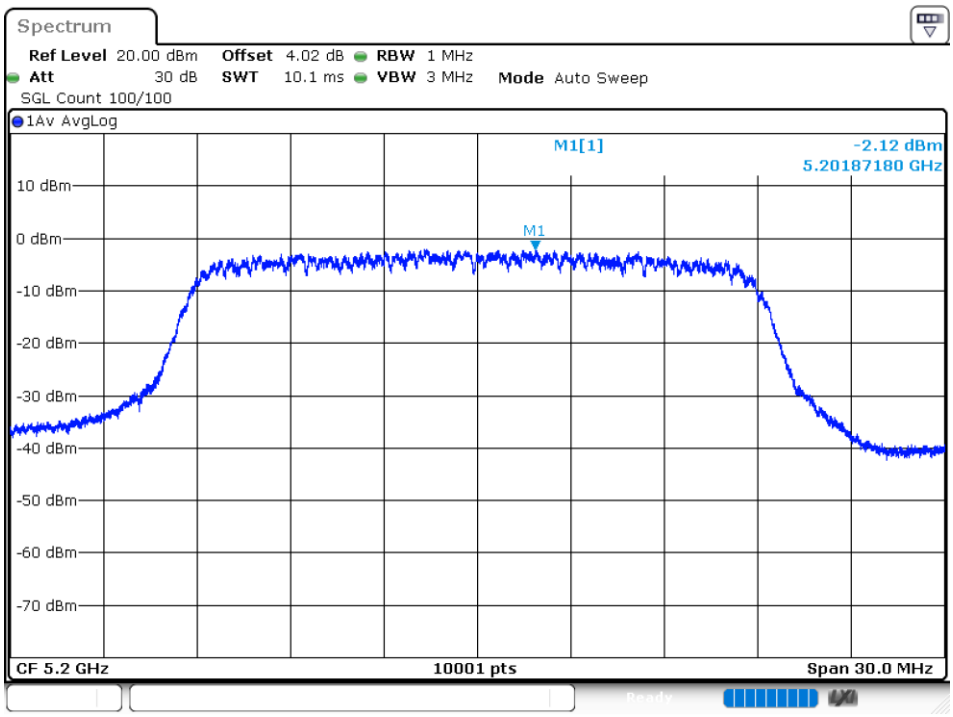
PSD NVNT n40 5230MHz Ant2



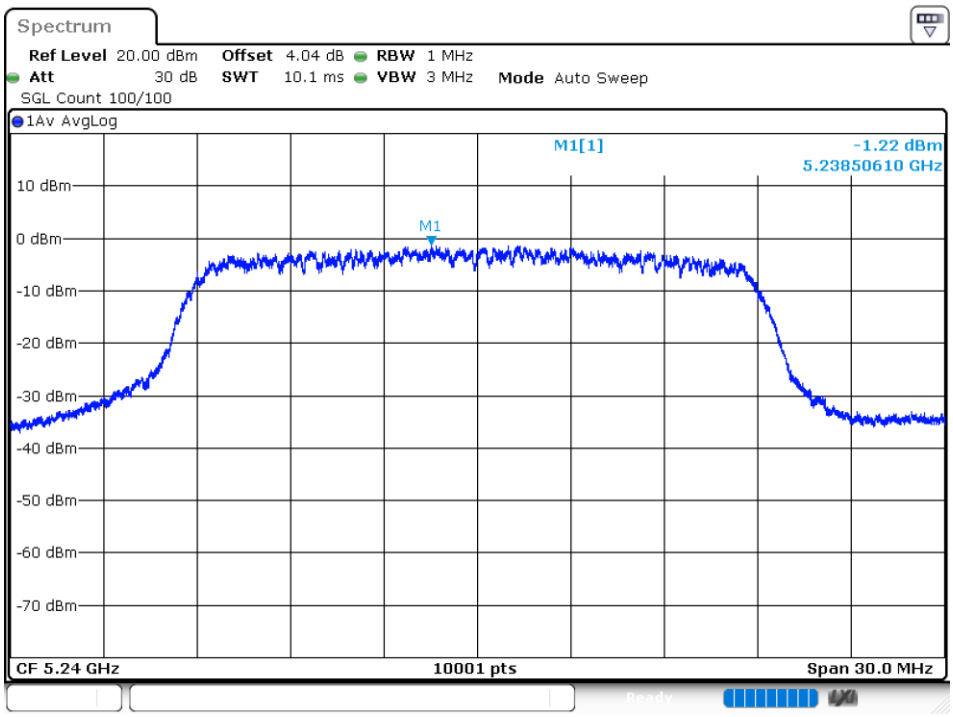
PSD NVNT ac20 5180MHz Ant1



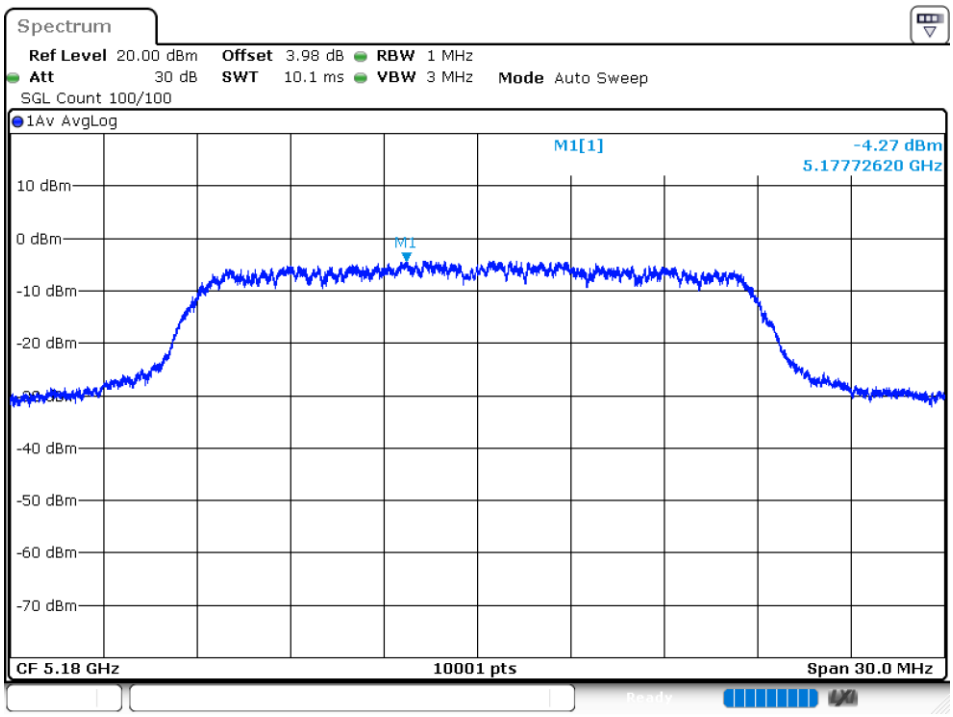
PSD NVNT ac20 5200MHz Ant1



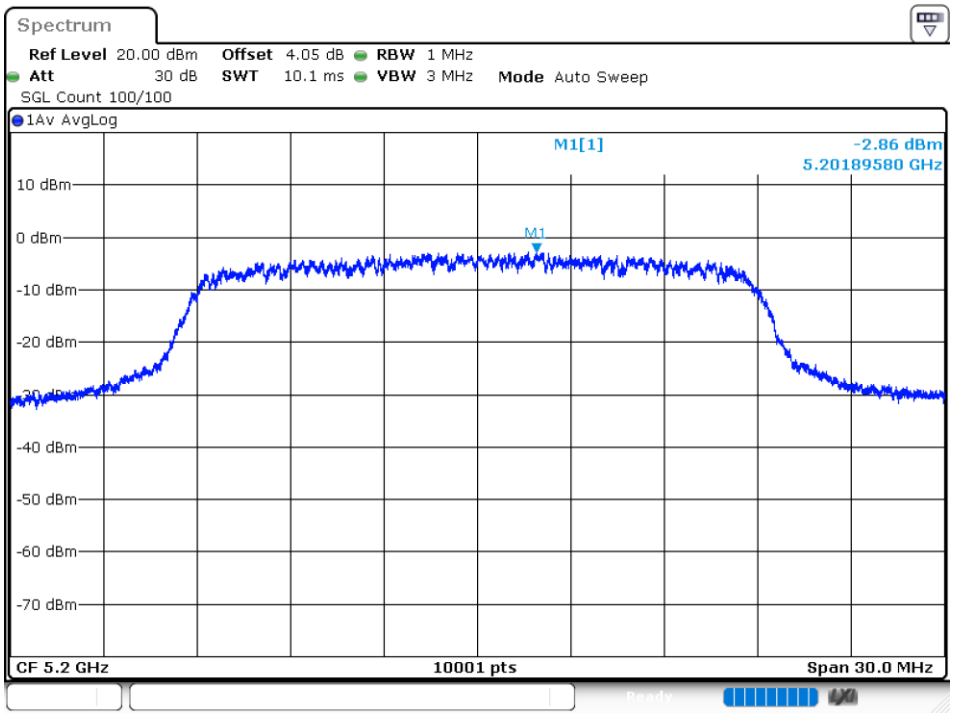
PSD NVNT ac20 5240MHz Ant1



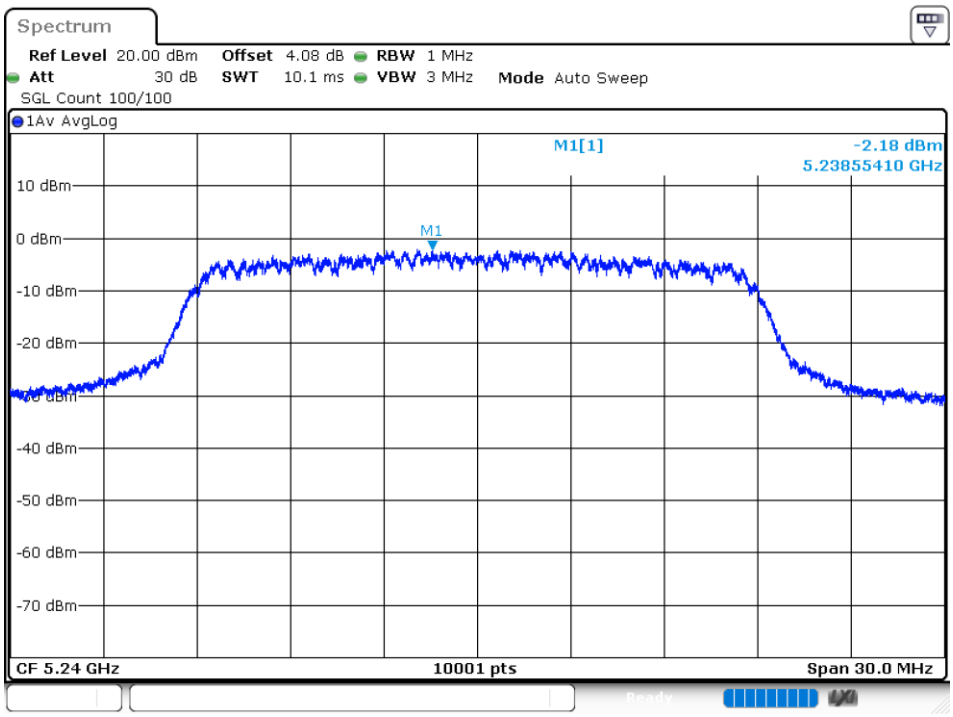
PSD NVNT ac20 5180MHz Ant2



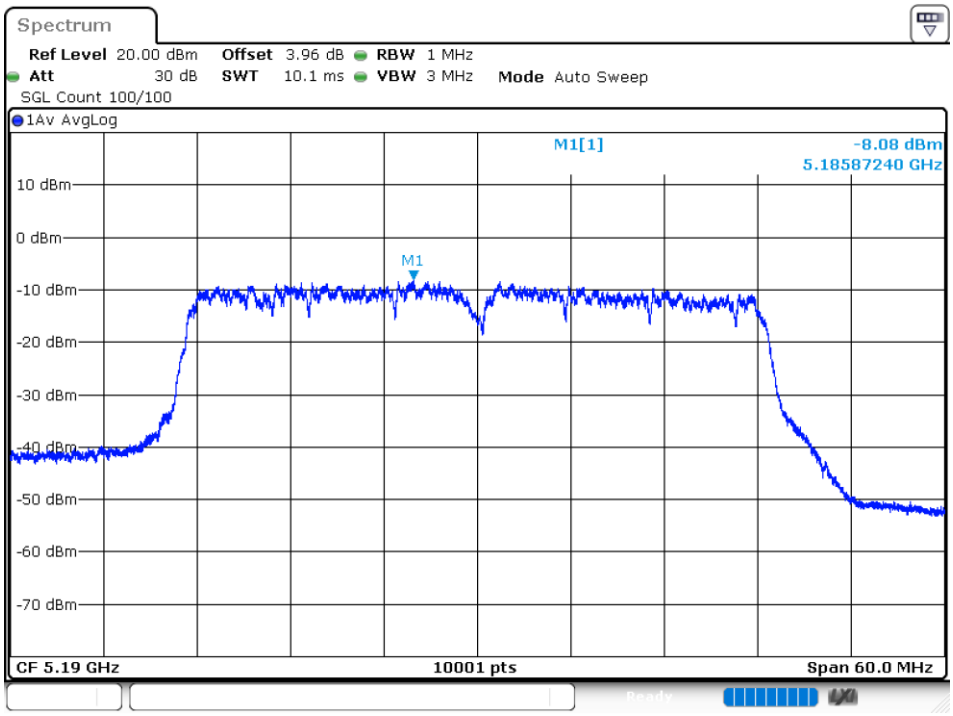
PSD NVNT ac20 5200MHz Ant2



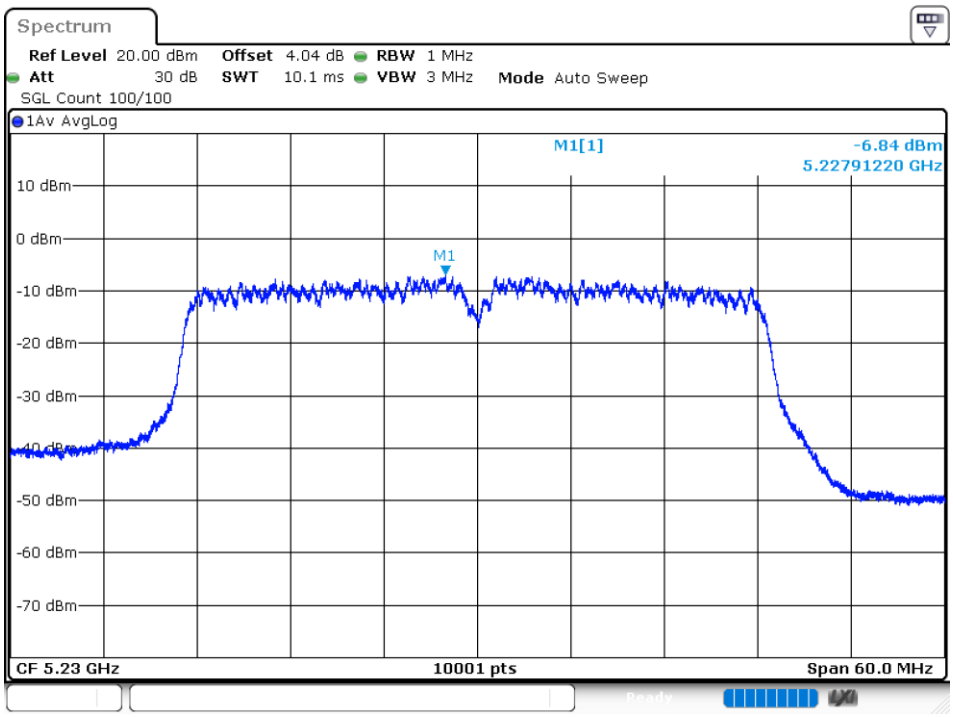
PSD NVNT ac20 5240MHz Ant2



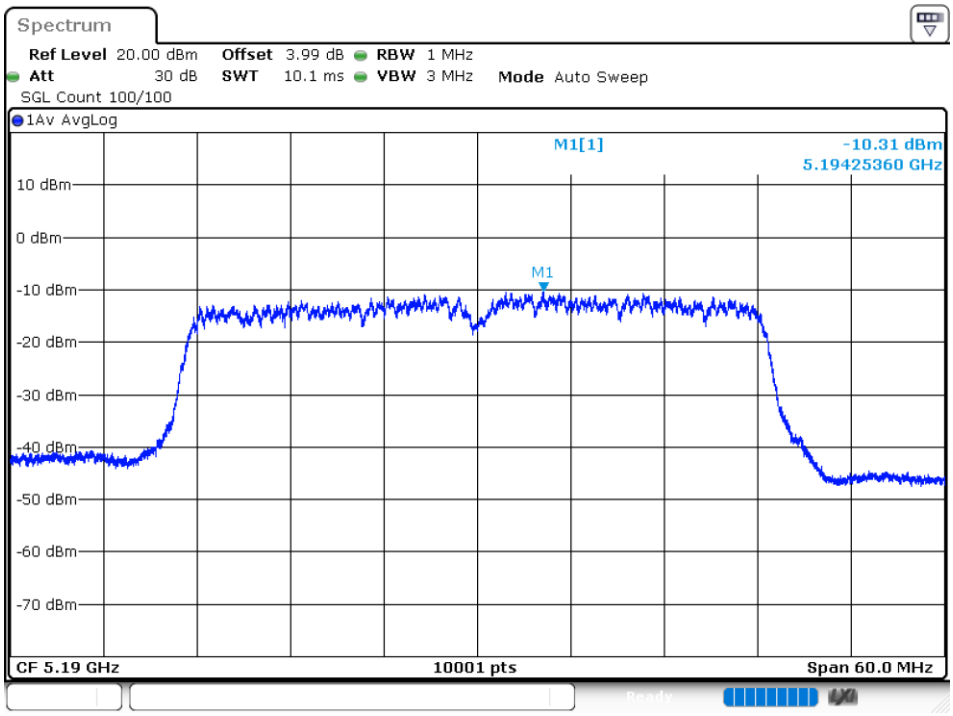
PSD NVNT ac40 5190MHz Ant1



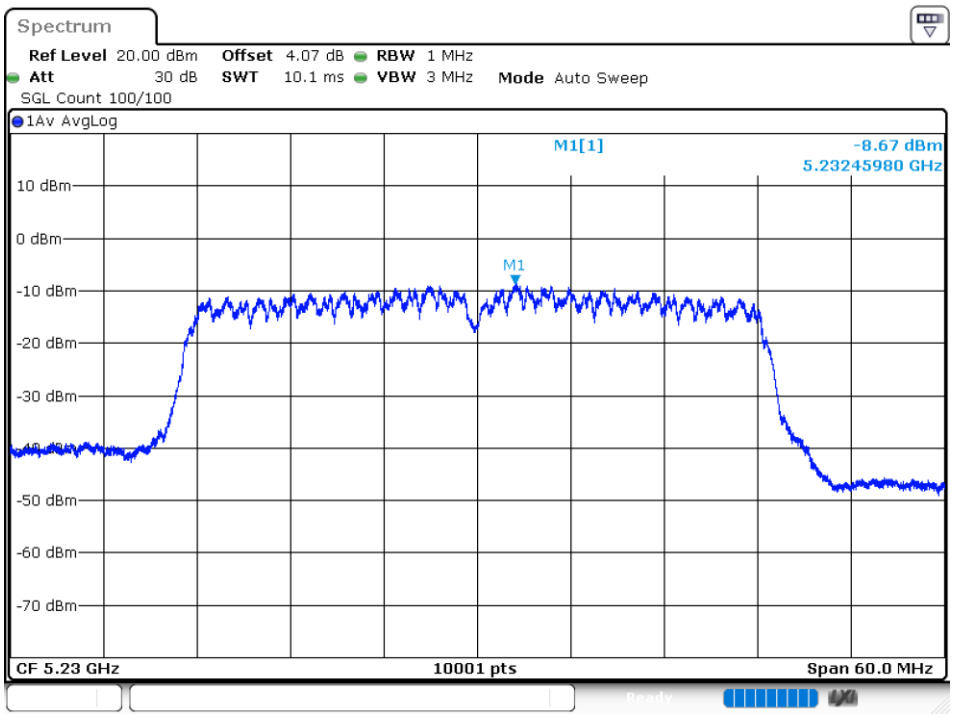
PSD NVNT ac40 5230MHz Ant1



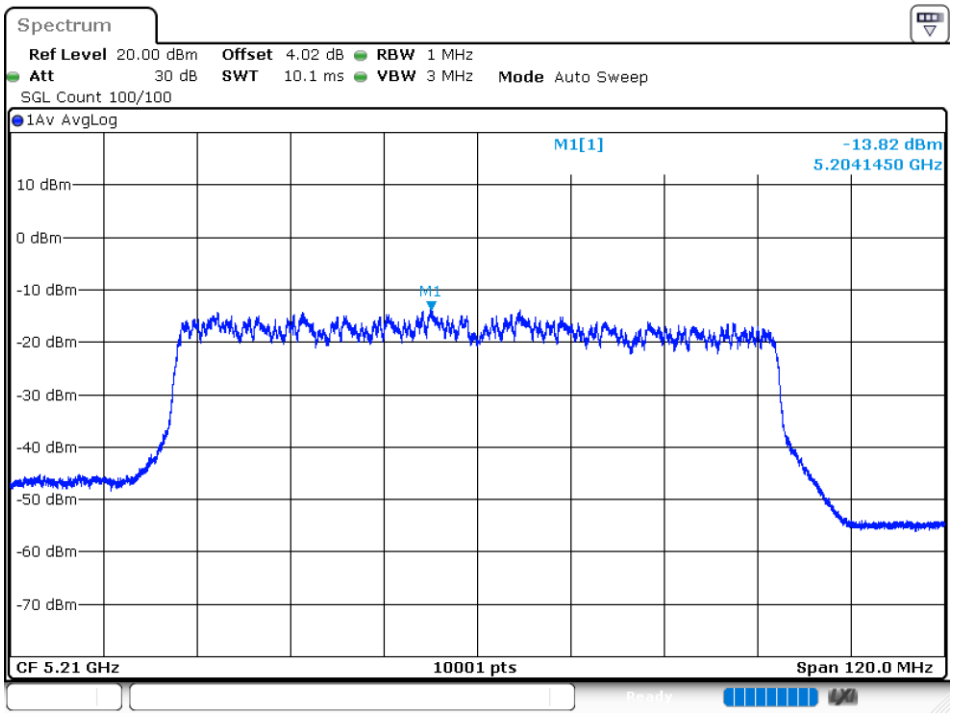
PSD NVNT ac40 5190MHz Ant2



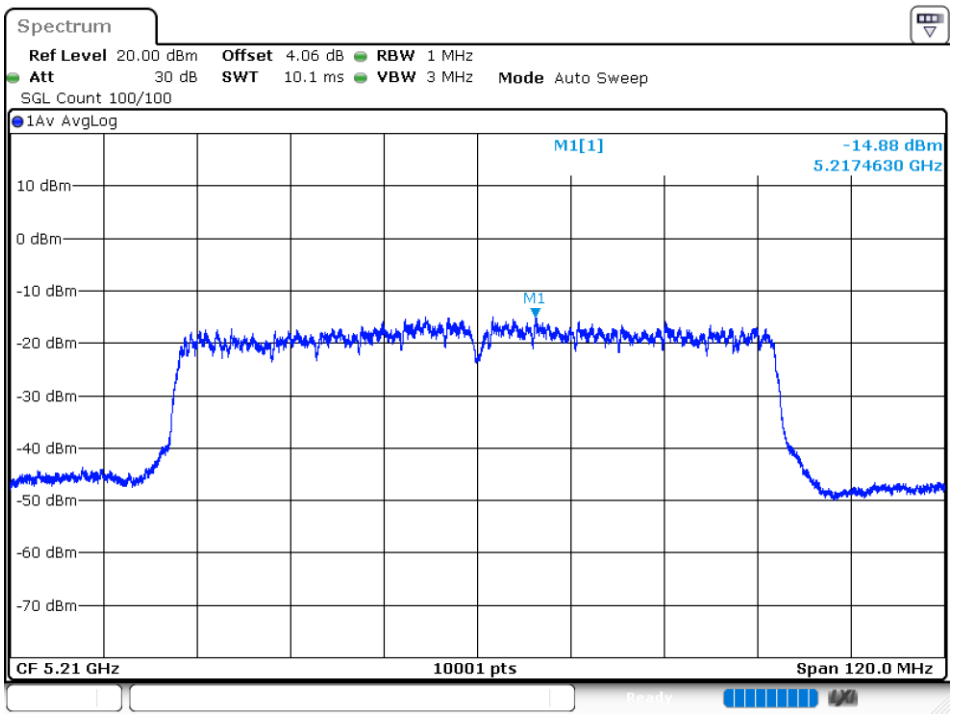
PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac80 5210MHz Ant2

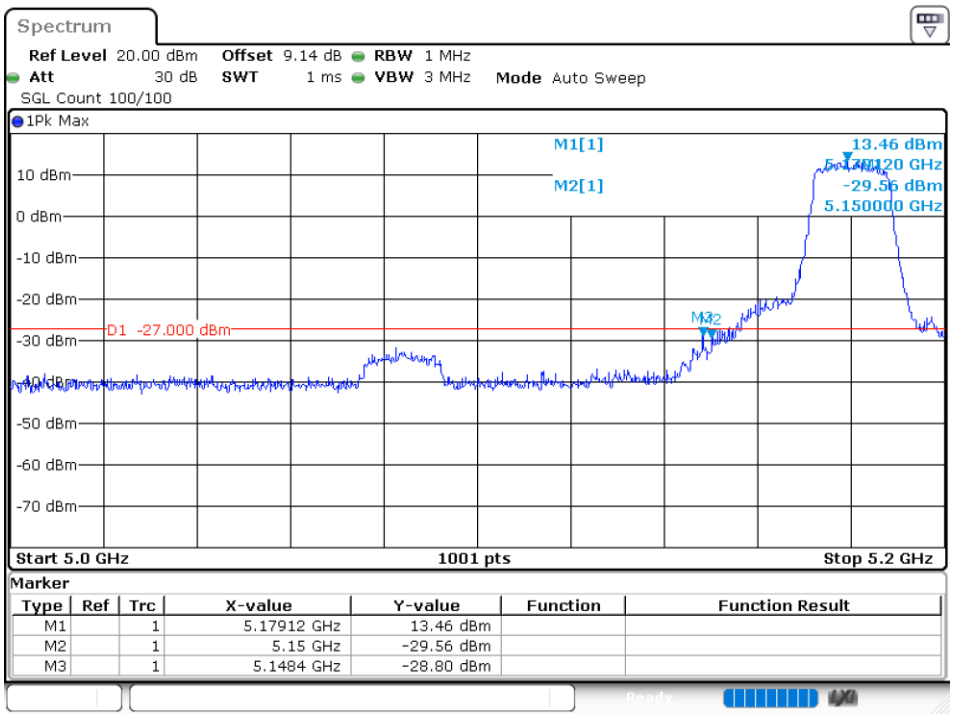


Band Edge

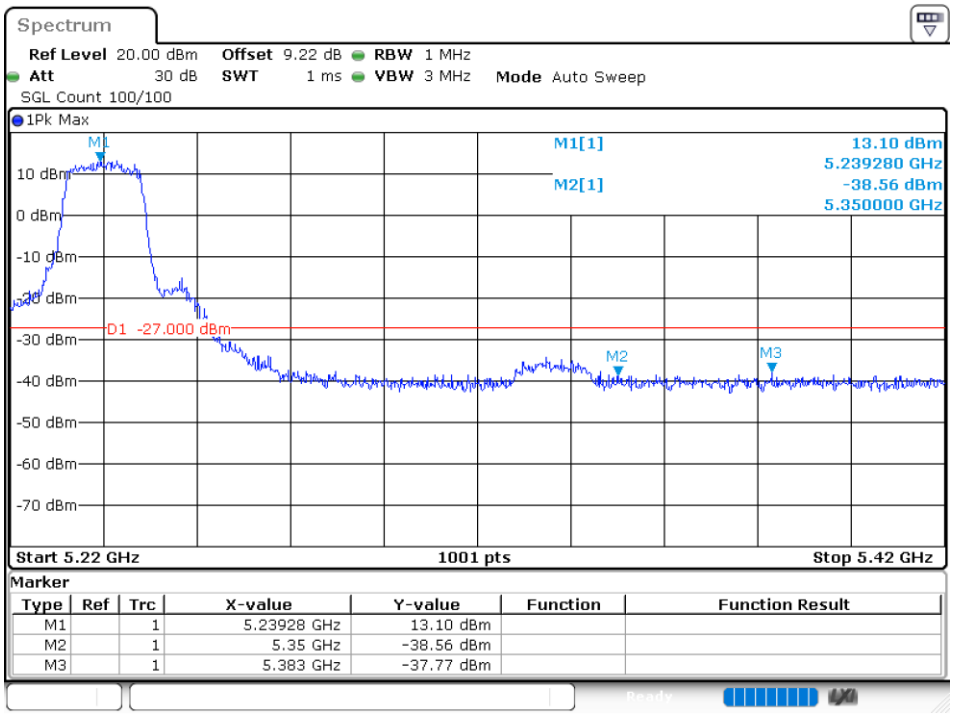
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-28.79	-27	Pass
NVNT	a	5240	Ant1	-37.77	-27	Pass
NVNT	a	5180	Ant2	-27.75	-27	Pass
NVNT	a	5240	Ant2	-37.31	-27	Pass
NVNT	n20	5180	Ant1	-28.17	-27	Pass
NVNT	n20	5240	Ant1	-37.11	-27	Pass
NVNT	n20	5180	Ant2	-32.25	-27	Pass
NVNT	n20	5240	Ant2	-37.46	-27	Pass
NVNT	n40	5190	Ant1	-28.41	-27	Pass
NVNT	n40	5230	Ant1	-38.2	-27	Pass
NVNT	n40	5190	Ant2	-27.49	-27	Pass
NVNT	n40	5230	Ant2	-37.34	-27	Pass
NVNT	ac20	5180	Ant1	-31.34	-27	Pass
NVNT	ac20	5240	Ant1	-38.44	-27	Pass
NVNT	ac20	5180	Ant2	-32.52	-27	Pass
NVNT	ac20	5240	Ant2	-37.8	-27	Pass
NVNT	ac40	5190	Ant1	-27.28	-27	Pass
NVNT	ac40	5230	Ant1	-37.66	-27	Pass
NVNT	ac40	5190	Ant2	-29.34	-27	Pass
NVNT	ac40	5230	Ant2	-38.37	-27	Pass
NVNT	ac80	5210	Ant1	-28.93	-27	Pass
NVNT	ac80	5210	Ant1	-38.49	-27	Pass
NVNT	ac80	5210	Ant2	-28.42	-27	Pass
NVNT	ac80	5210	Ant2	-37.36	-27	Pass

Note: The test results have been added with Antenna Gain.

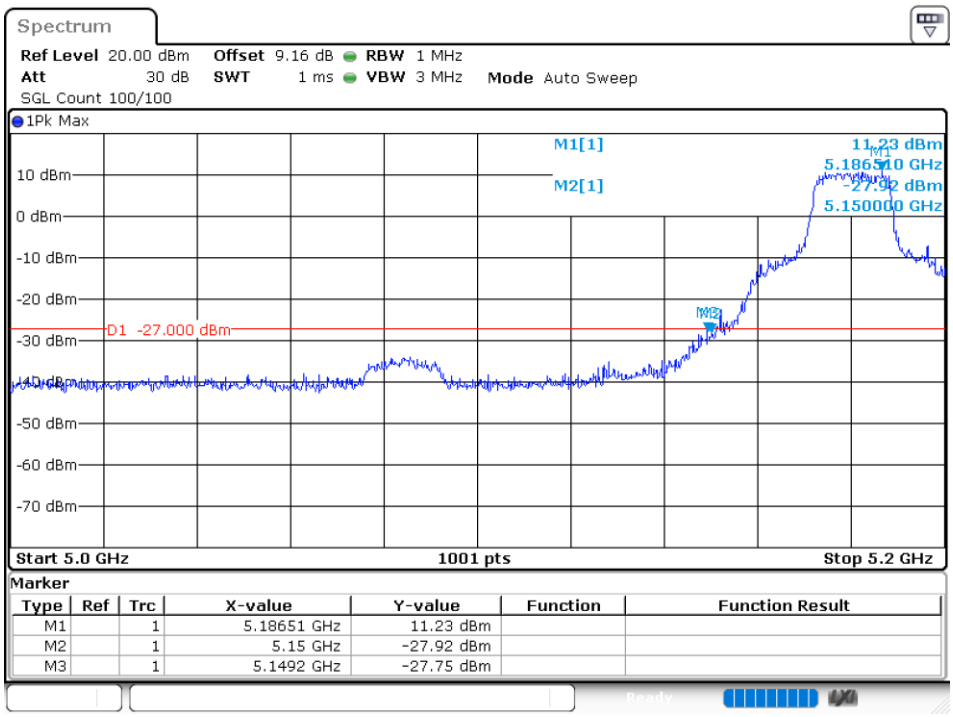
Test Graphs
Band Edge NVNT a 5180MHz Low Ant1



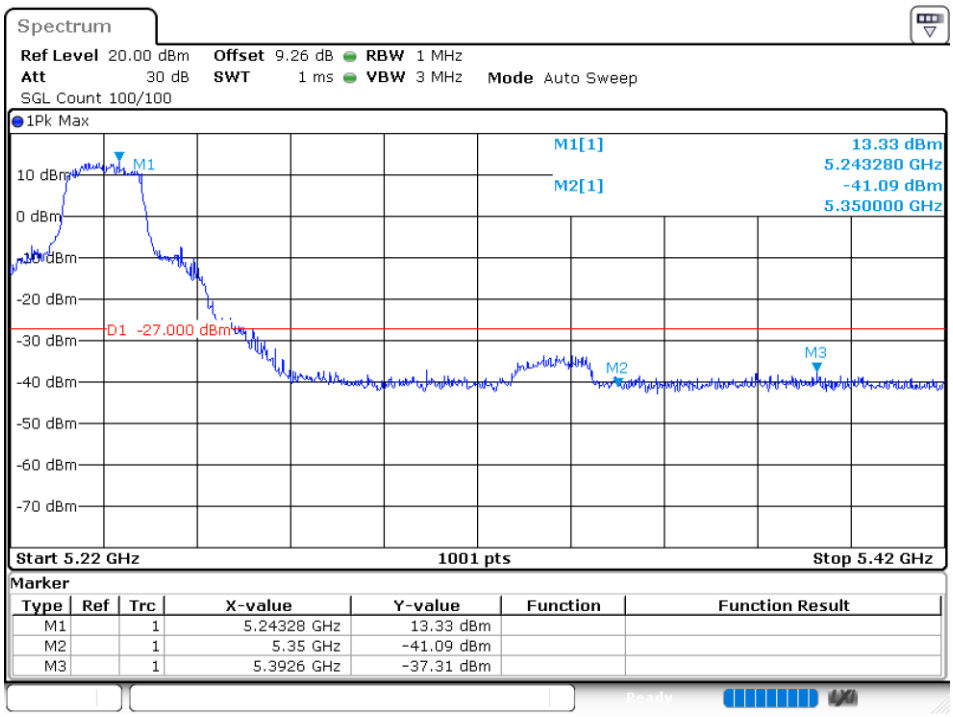
Band Edge NVNT a 5240MHz High Ant1



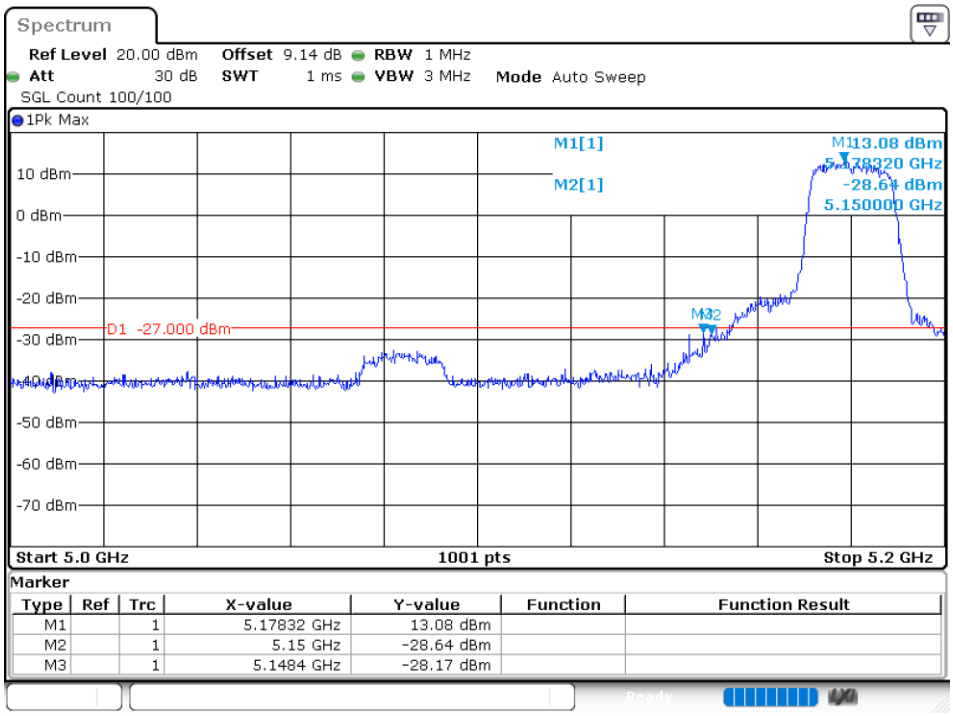
Band Edge NVNT a 5180MHz Low Ant2



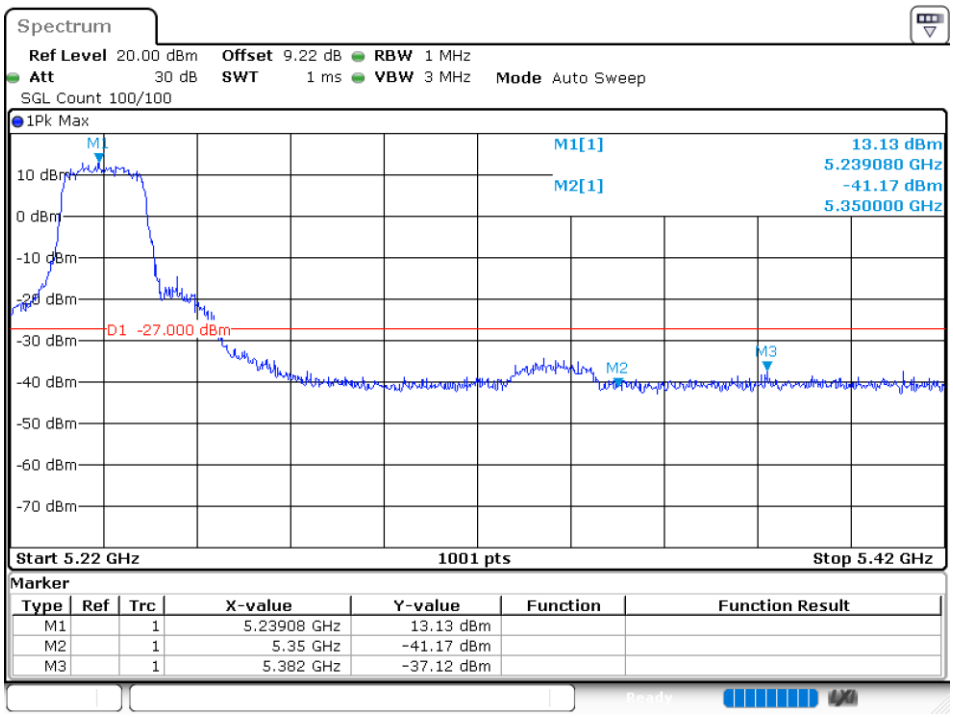
Band Edge NVNT a 5240MHz High Ant2



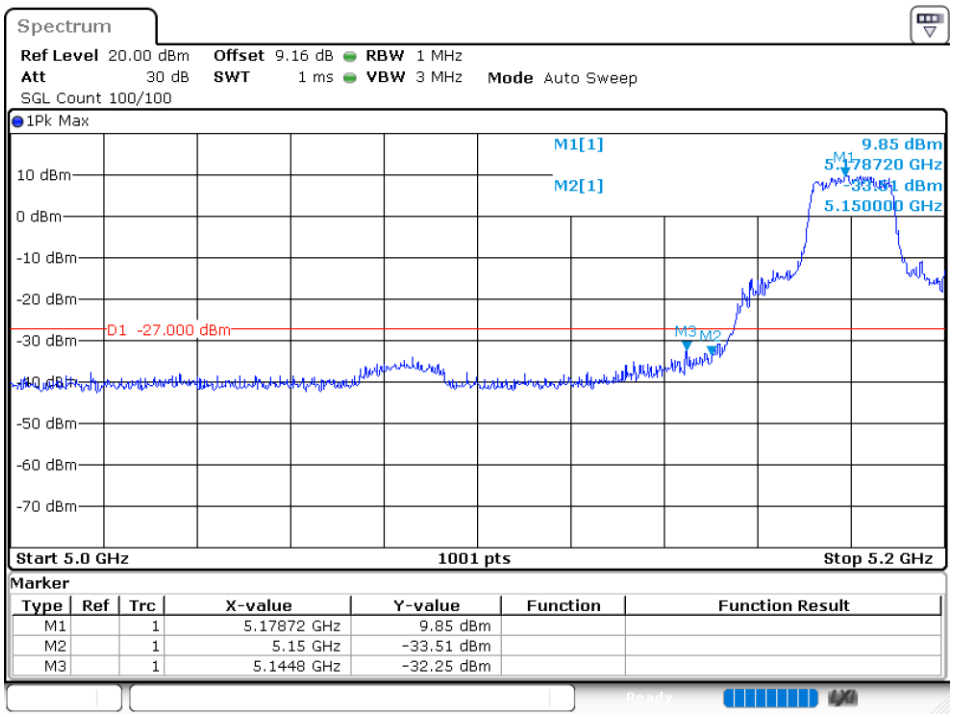
Band Edge NVNT n20 5180MHz Low Ant1



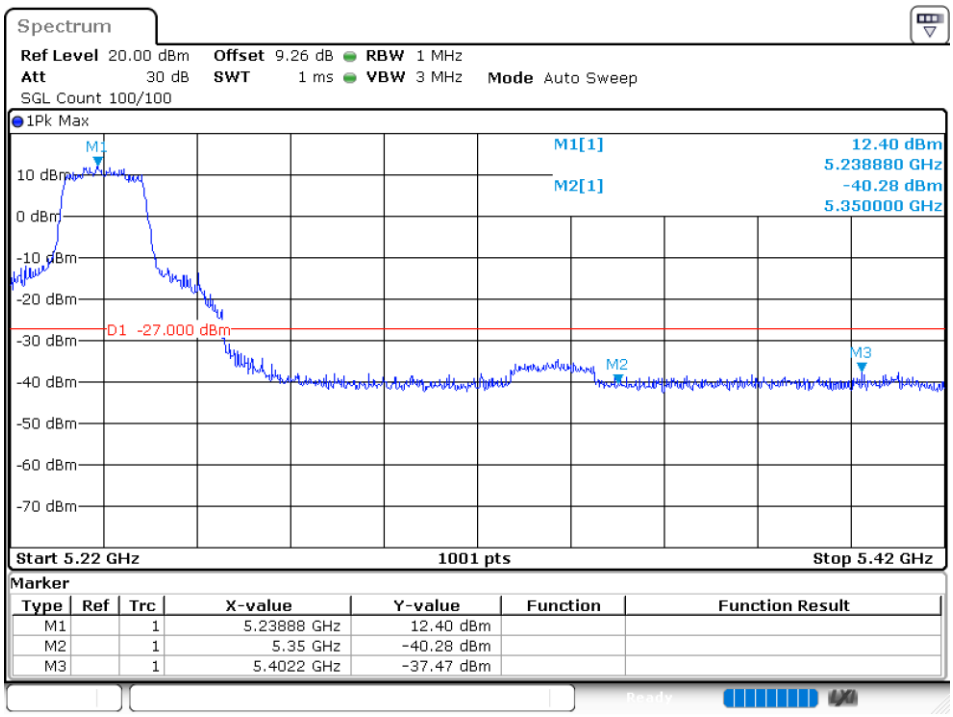
Band Edge NVNT n20 5240MHz High Ant1



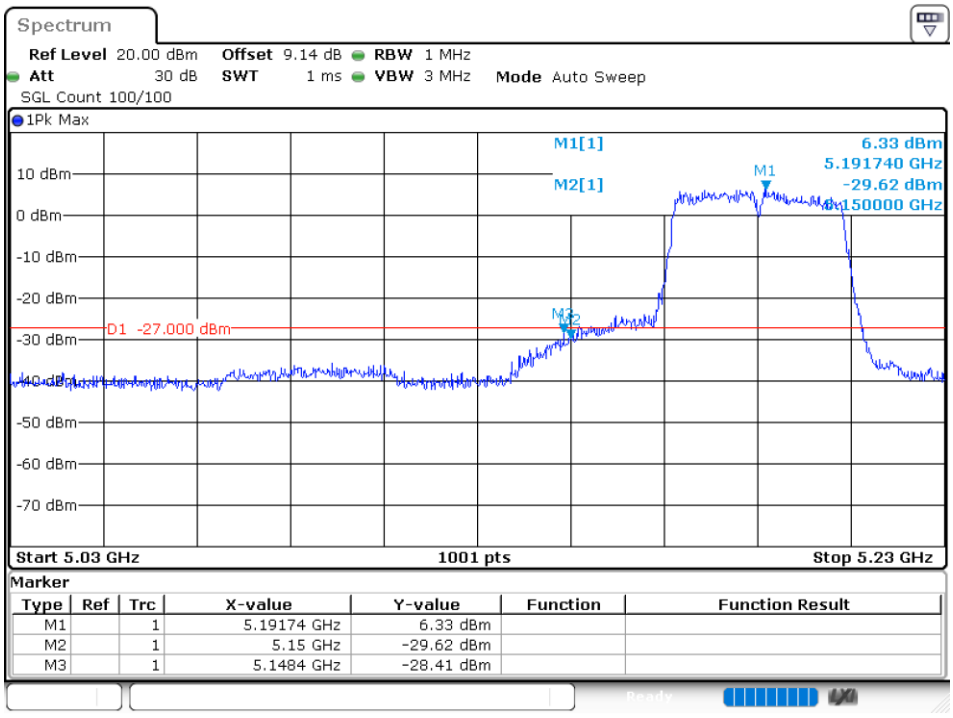
Band Edge NVNT n20 5180MHz Low Ant2



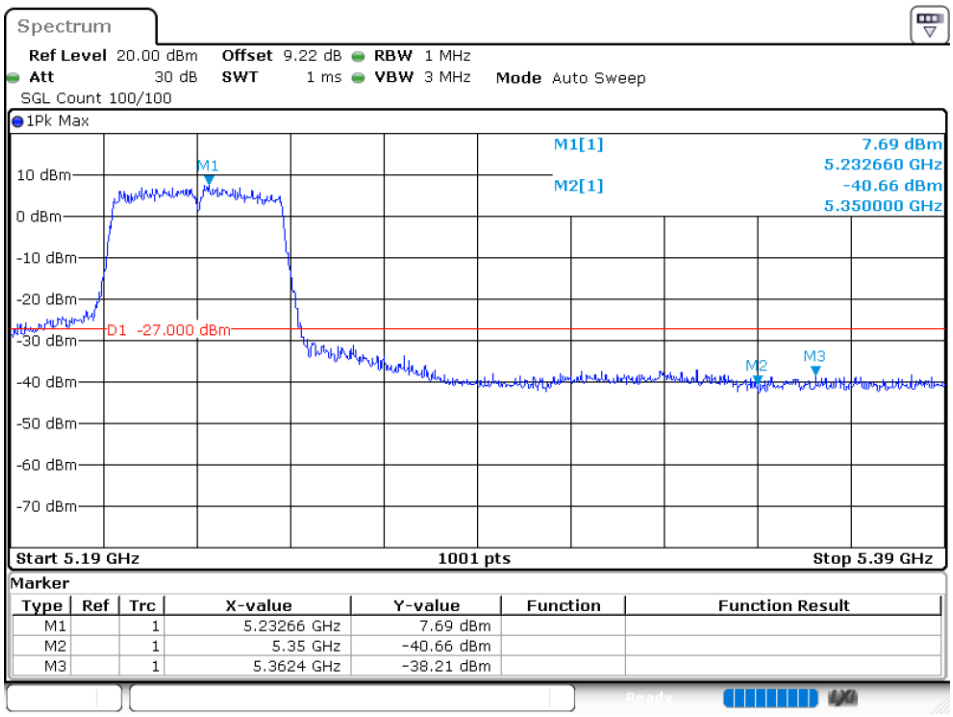
Band Edge NVNT n20 5240MHz High Ant2



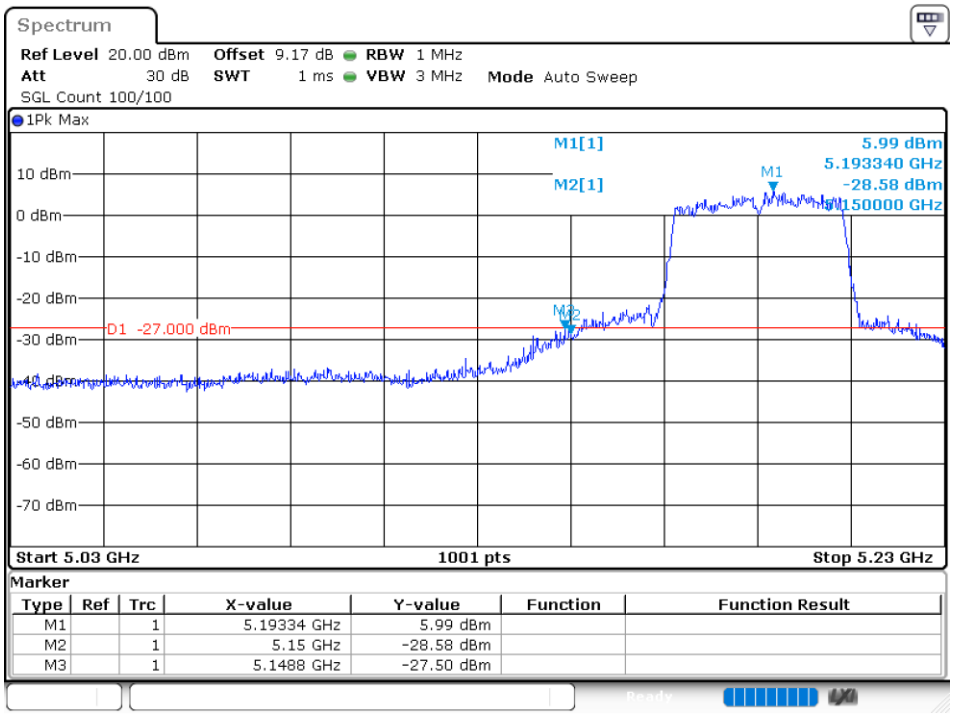
Band Edge NVNT n40 5190MHz Low Ant1



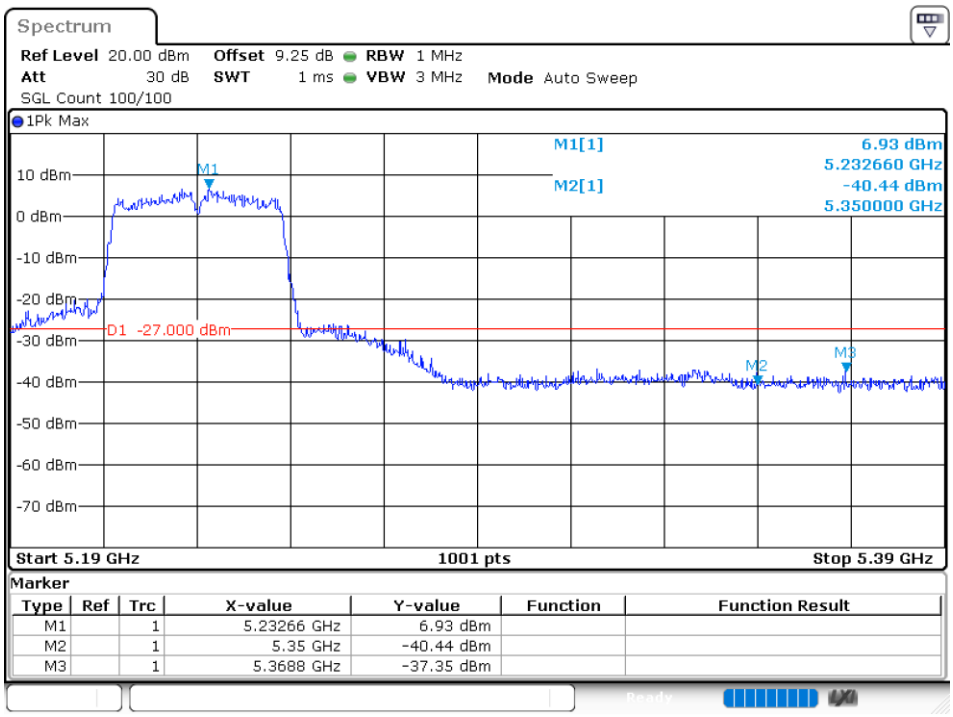
Band Edge NVNT n40 5230MHz High Ant1



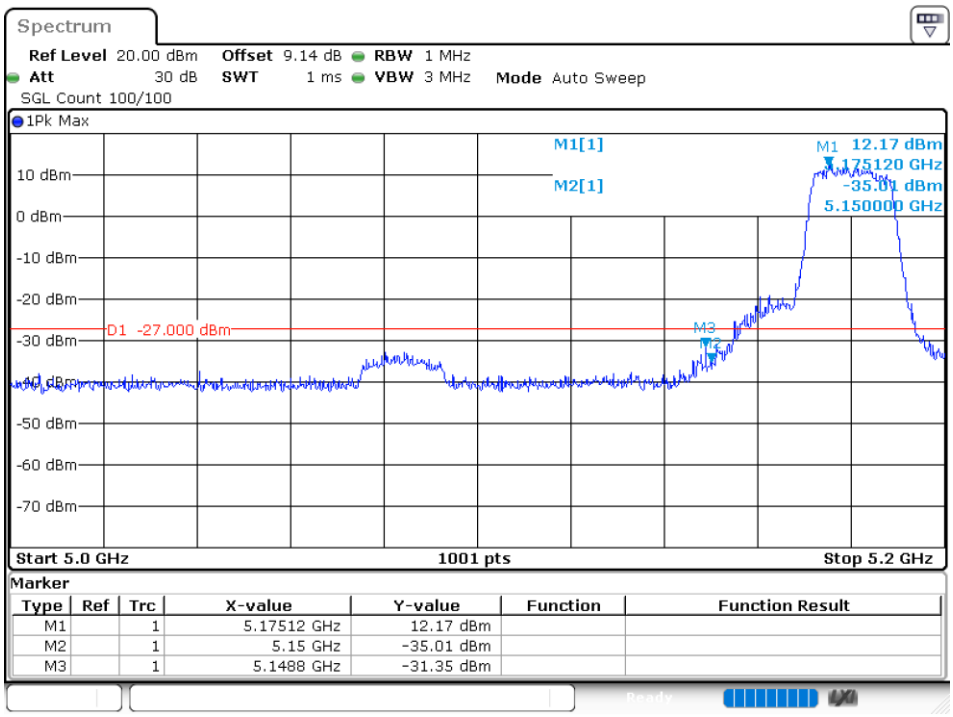
Band Edge NVNT n40 5190MHz Low Ant2



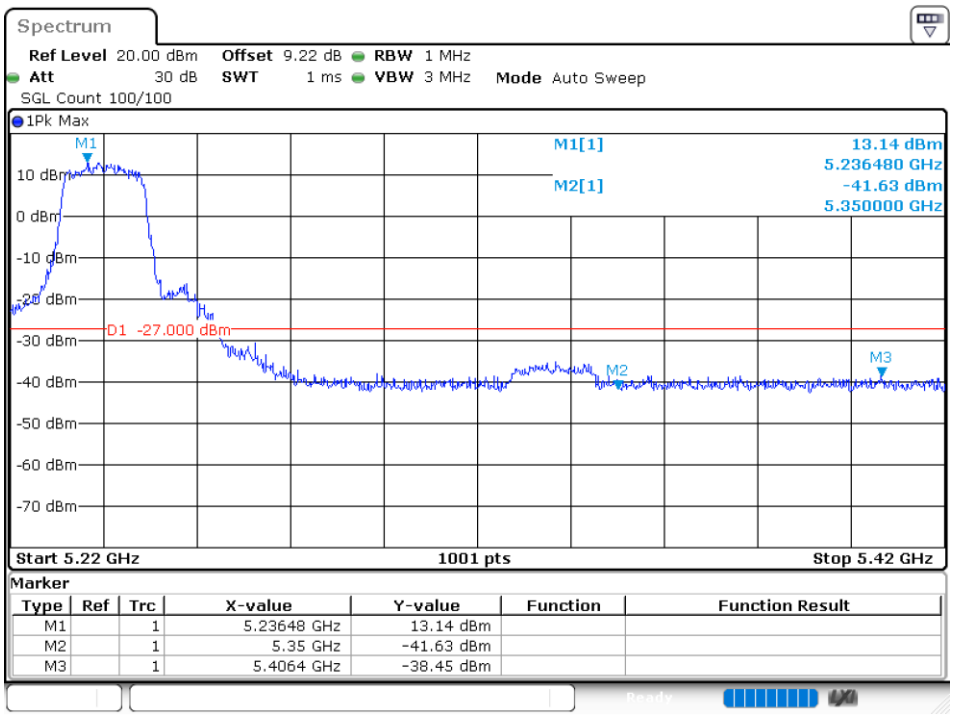
Band Edge NVNT n40 5230MHz High Ant2



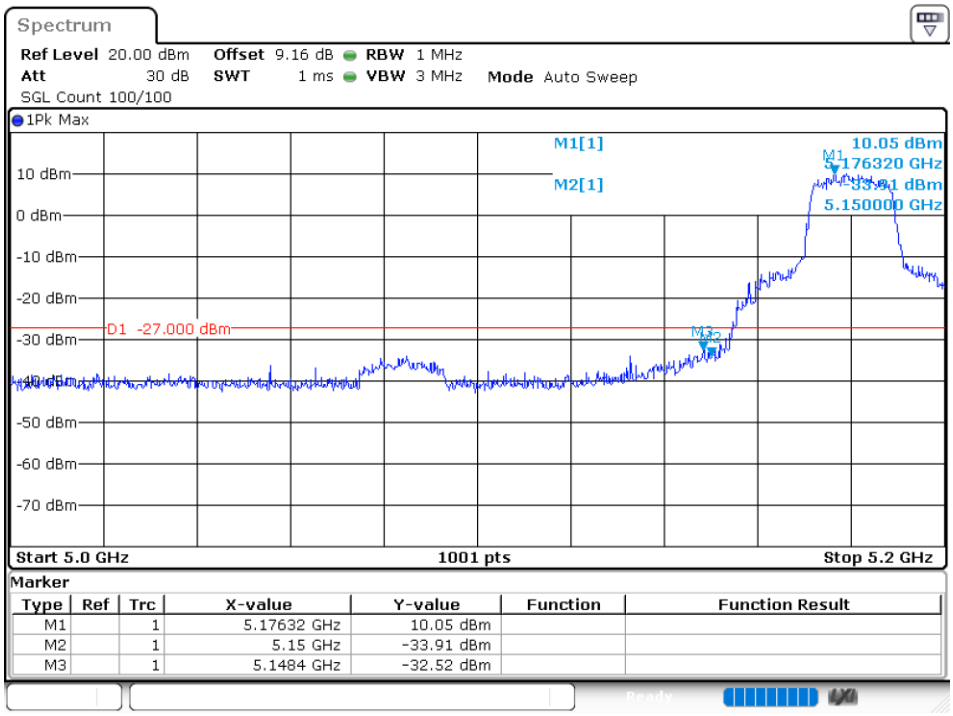
Band Edge NVNT ac20 5180MHz Low Ant1



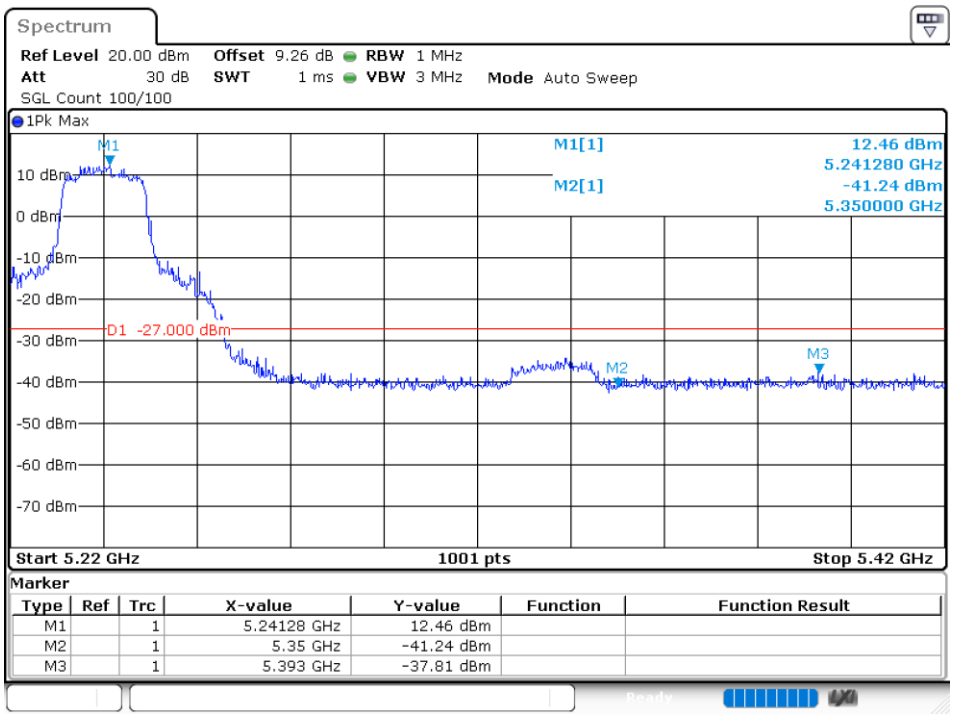
Band Edge NVNT ac20 5240MHz High Ant1



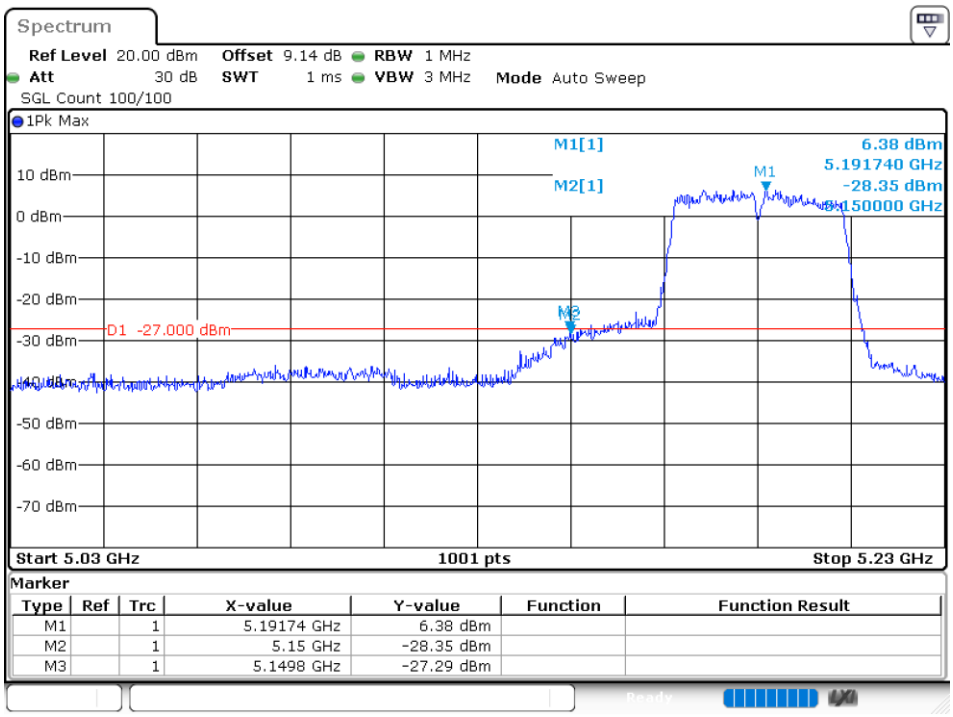
Band Edge NVNT ac20 5180MHz Low Ant2



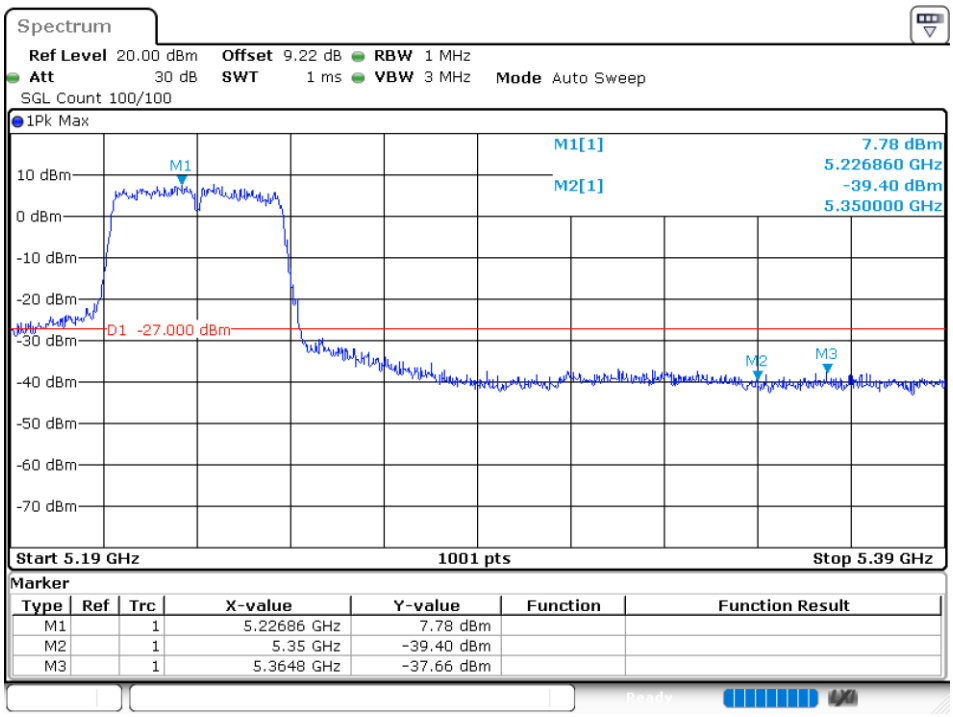
Band Edge NVNT ac20 5240MHz High Ant2



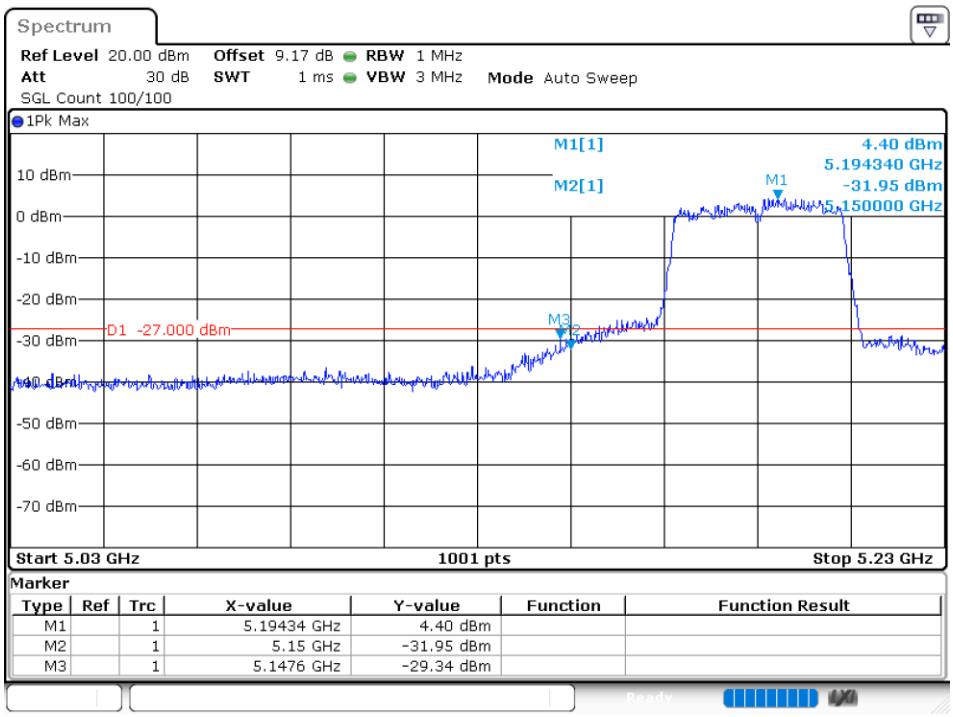
Band Edge NVNT ac40 5190MHz Low Ant1



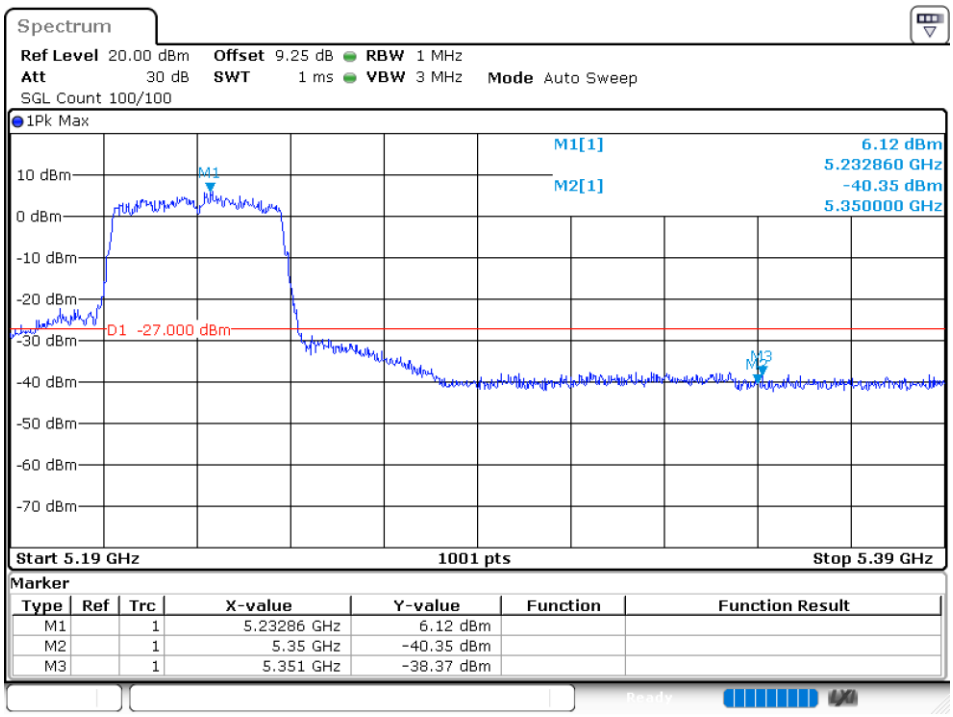
Band Edge NVNT ac40 5230MHz High Ant1



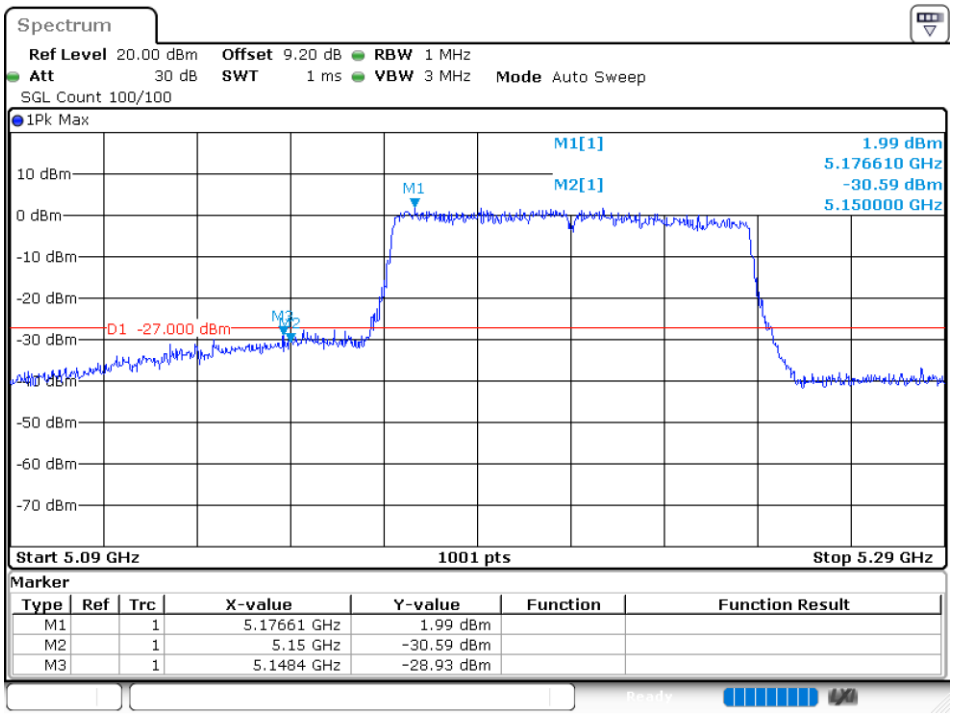
Band Edge NVNT ac40 5190MHz Low Ant2



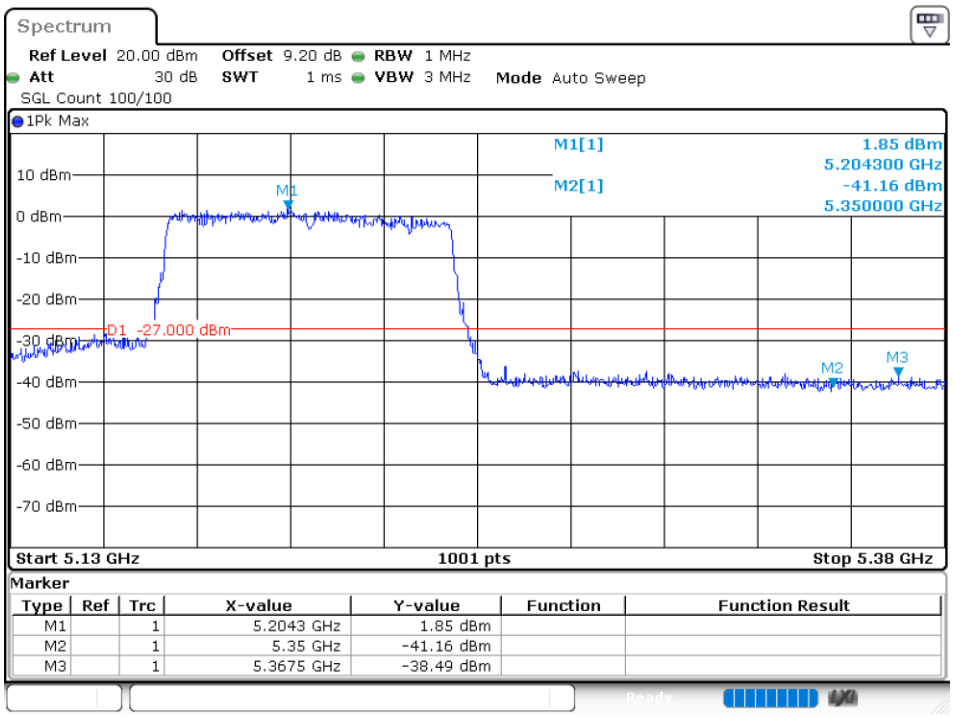
Band Edge NVNT ac40 5230MHz High Ant2



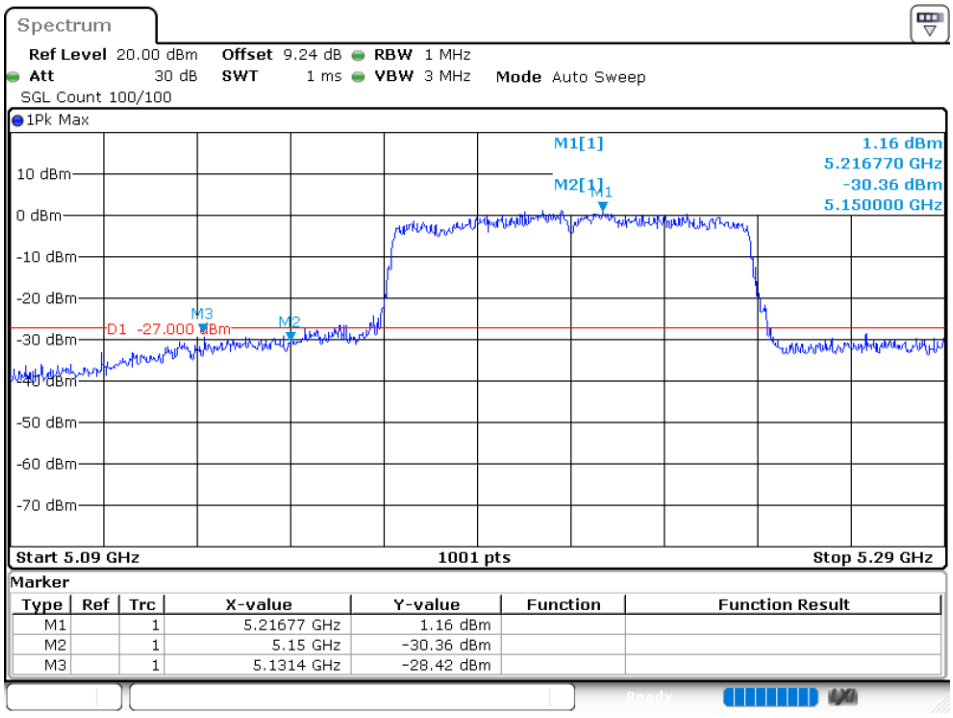
Band Edge NVNT ac80 5210MHz Low Ant1



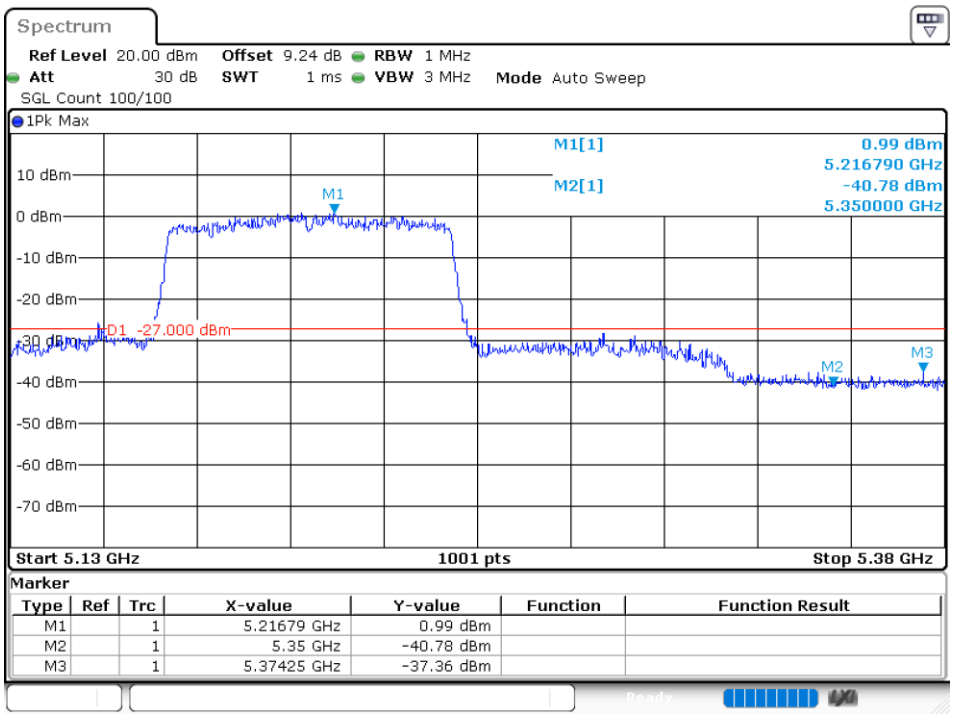
Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant2



Band Edge NVNT ac80 5210MHz High Ant2

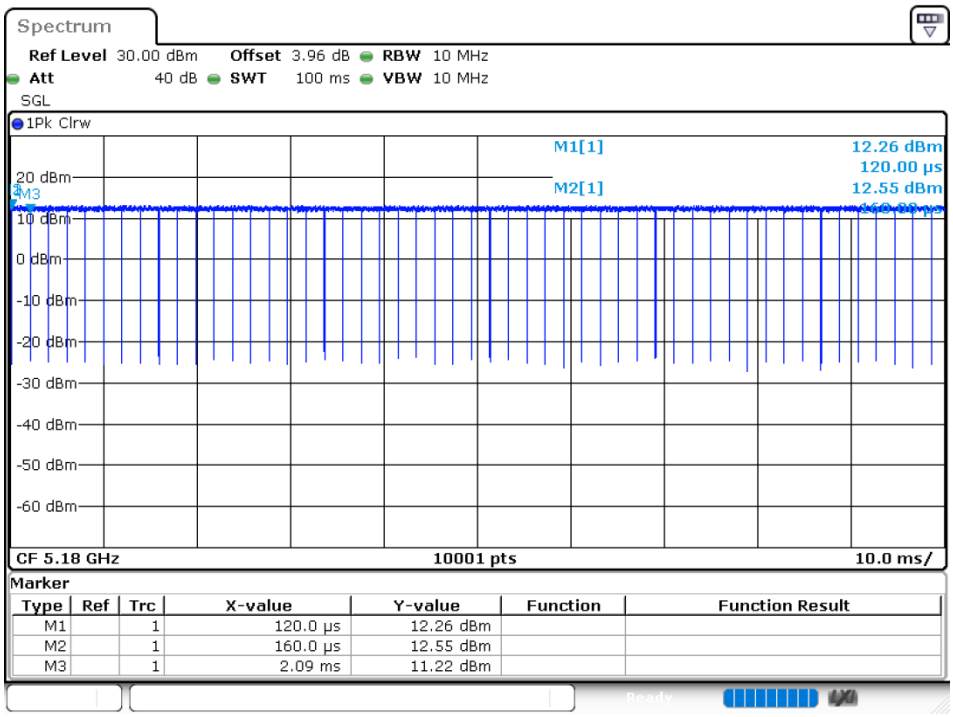


5.2GWIFI MIMO

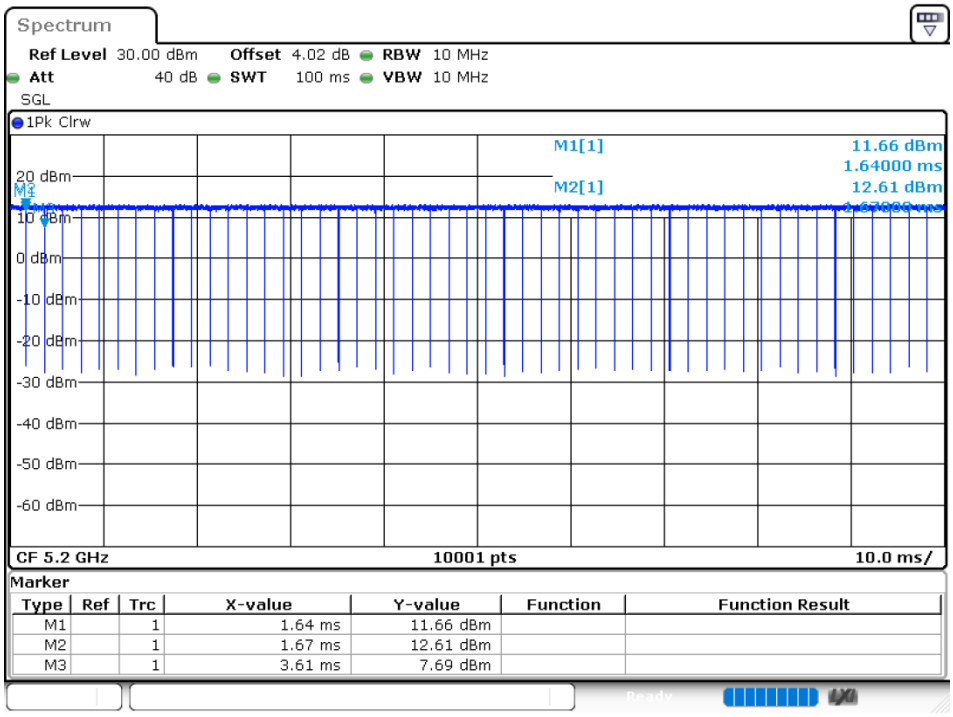
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac20	5180	Ant1	98.62	0.06	0.52
NVNT	ac20	5200	Ant1	98.65	0.06	0.52
NVNT	ac20	5240	Ant1	98.62	0.06	0.52
NVNT	ac40	5190	Ant1	97.29	0.12	1.04
NVNT	ac40	5230	Ant1	97.35	0.12	1.05
NVNT	ac80	5210	Ant1	94	0.27	2.17
NVNT	n20	5180	Ant1	98.64	0.06	0.52
NVNT	n20	5200	Ant1	98.63	0.06	0.52
NVNT	n20	5240	Ant1	98.62	0.06	0.52
NVNT	n40	5190	Ant1	97.35	0.12	1.05
NVNT	n40	5230	Ant1	97.29	0.12	1.06
NVNT	ac20	5180	Ant2	98.62	0.06	0.52
NVNT	ac20	5200	Ant2	98.62	0.06	0.52
NVNT	ac20	5240	Ant2	98.62	0.06	0.52
NVNT	ac40	5190	Ant2	97.3	0.12	1.05
NVNT	ac40	5230	Ant2	97.27	0.12	1.05
NVNT	ac80	5210	Ant2	94	0.27	2.17
NVNT	n20	5180	Ant2	98.62	0.06	0.52
NVNT	n20	5200	Ant2	98.61	0.06	0.52
NVNT	n20	5240	Ant2	98.62	0.06	0.52
NVNT	n40	5190	Ant2	97.27	0.12	1.05
NVNT	n40	5230	Ant2	97.38	0.12	1.05

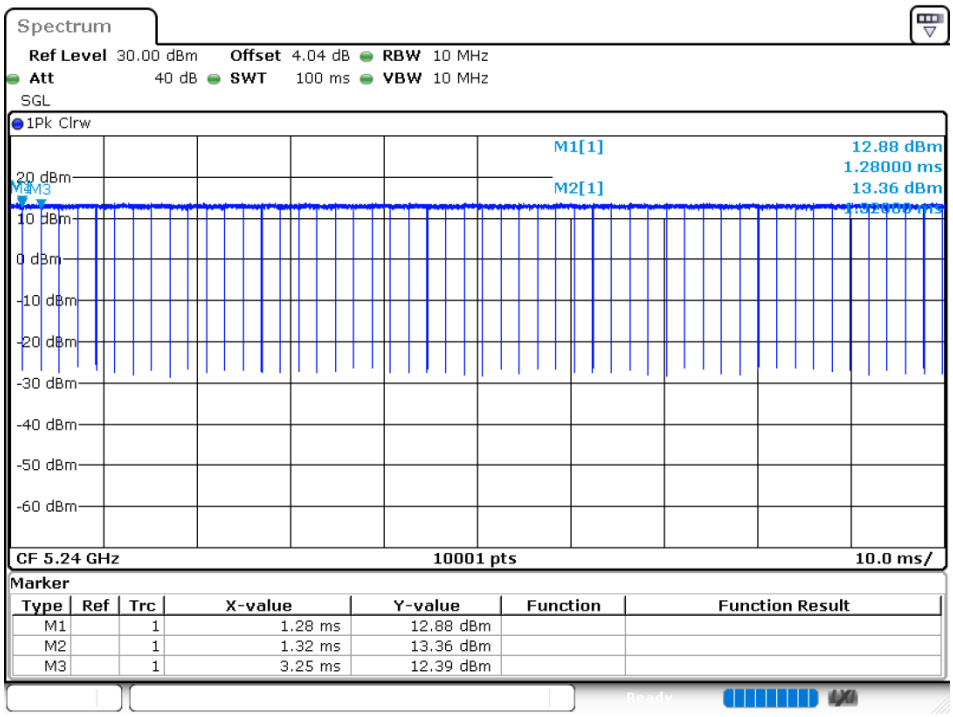
Test Graphs
Duty Cycle NVNT ac20 5180MHz Ant1



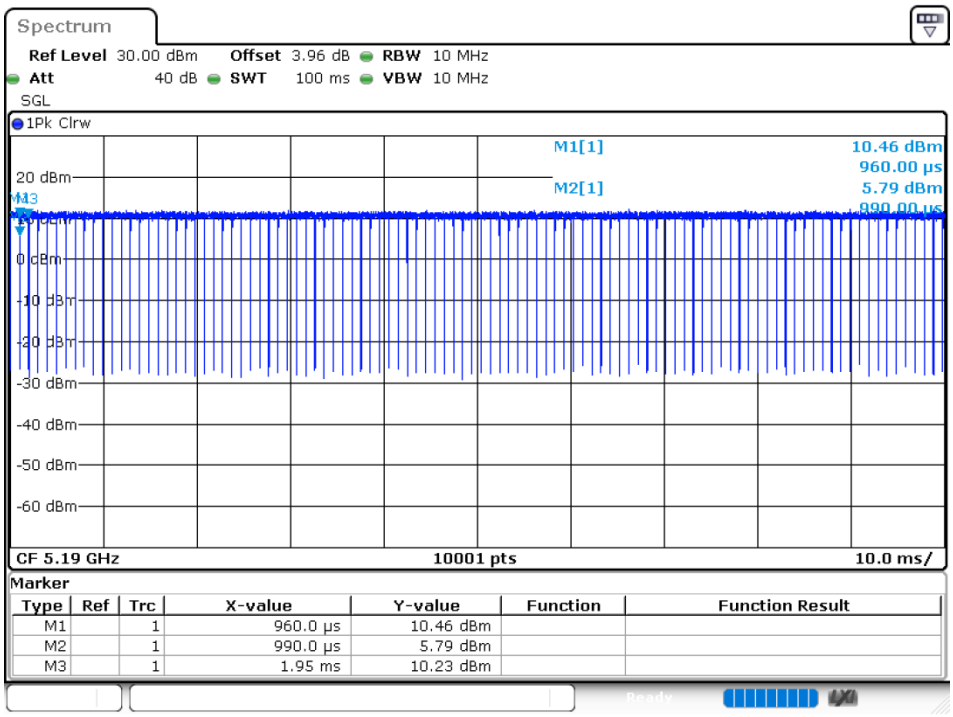
Duty Cycle NVNT ac20 5200MHz Ant1



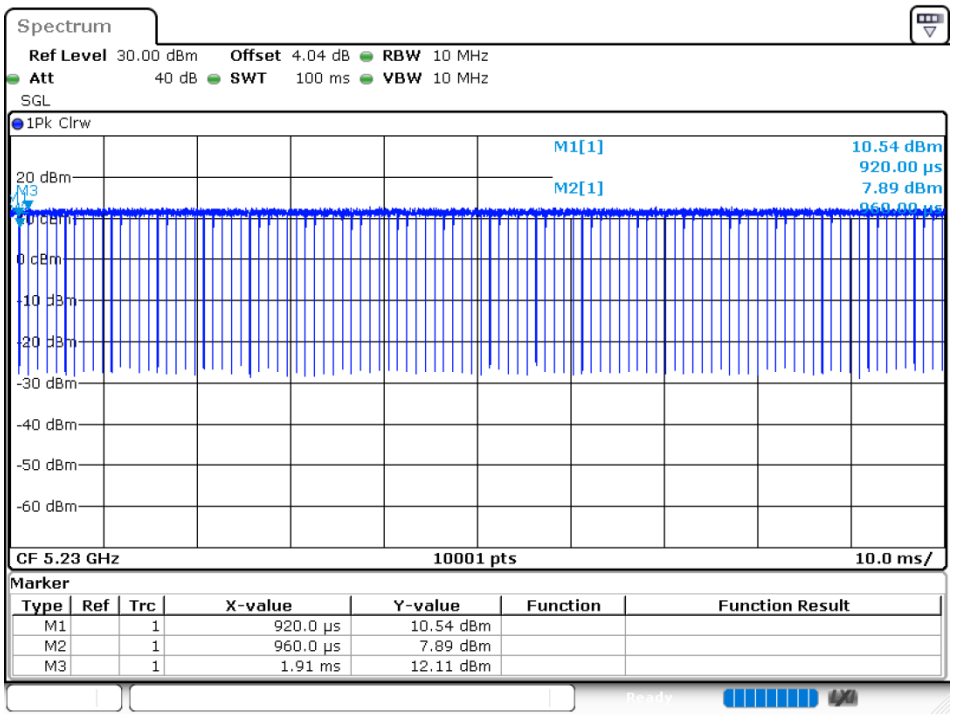
Duty Cycle NVNT ac20 5240MHz Ant1



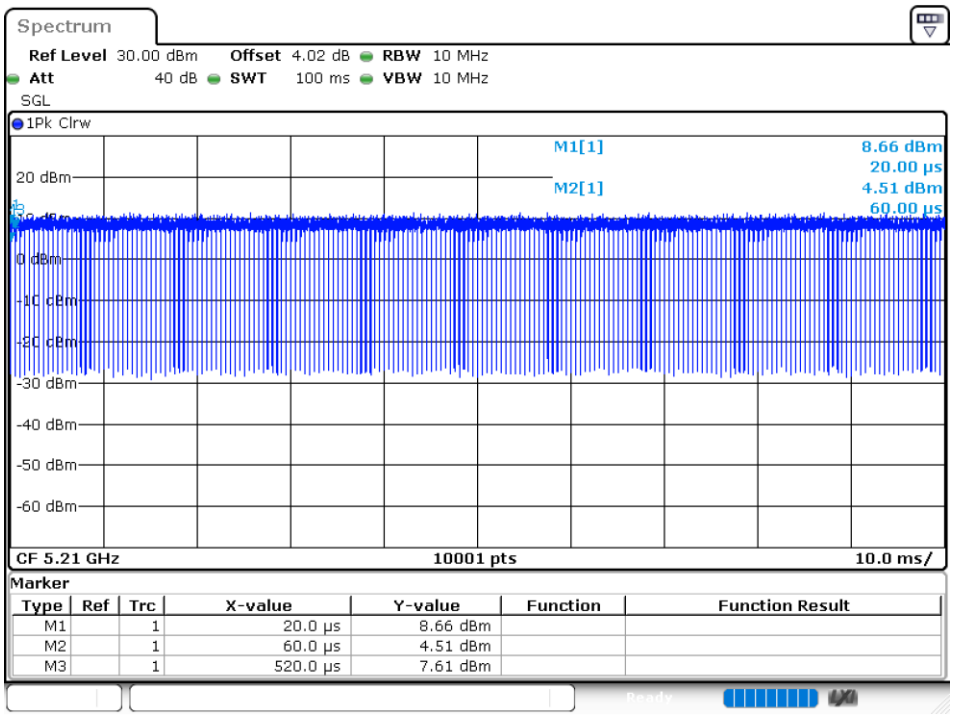
Duty Cycle NVNT ac40 5190MHz Ant1



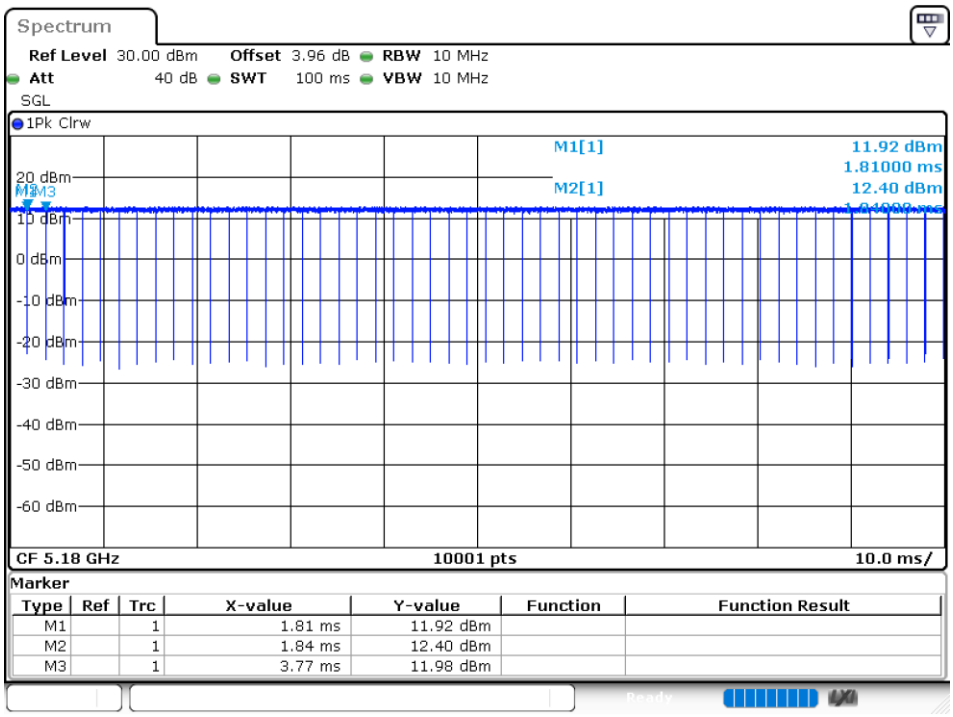
Duty Cycle NVNT ac40 5230MHz Ant1



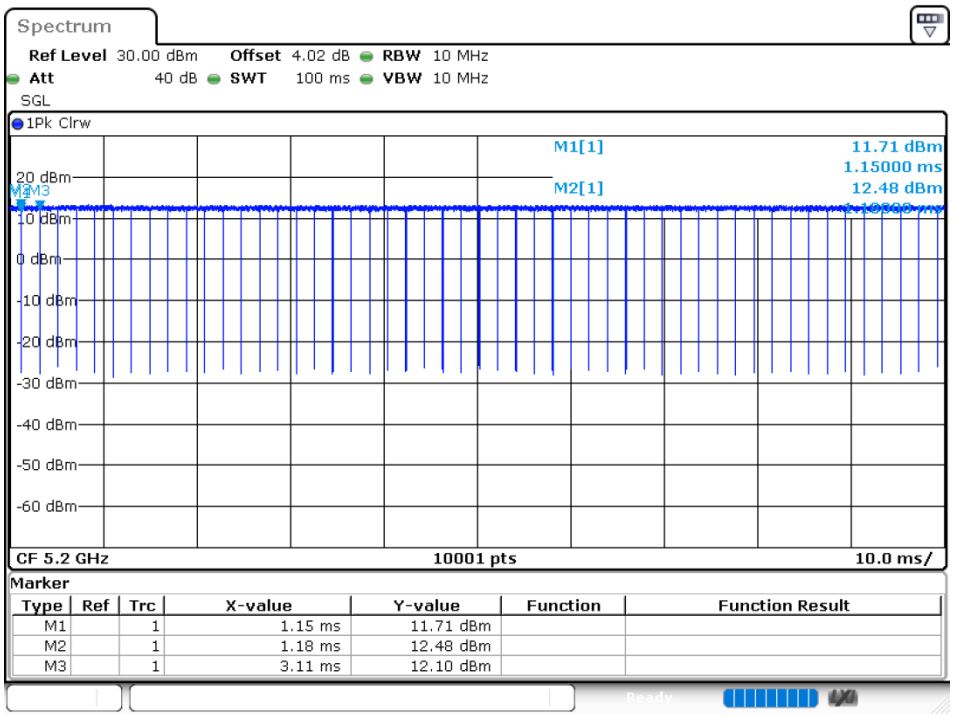
Duty Cycle NVNT ac80 5210MHz Ant1



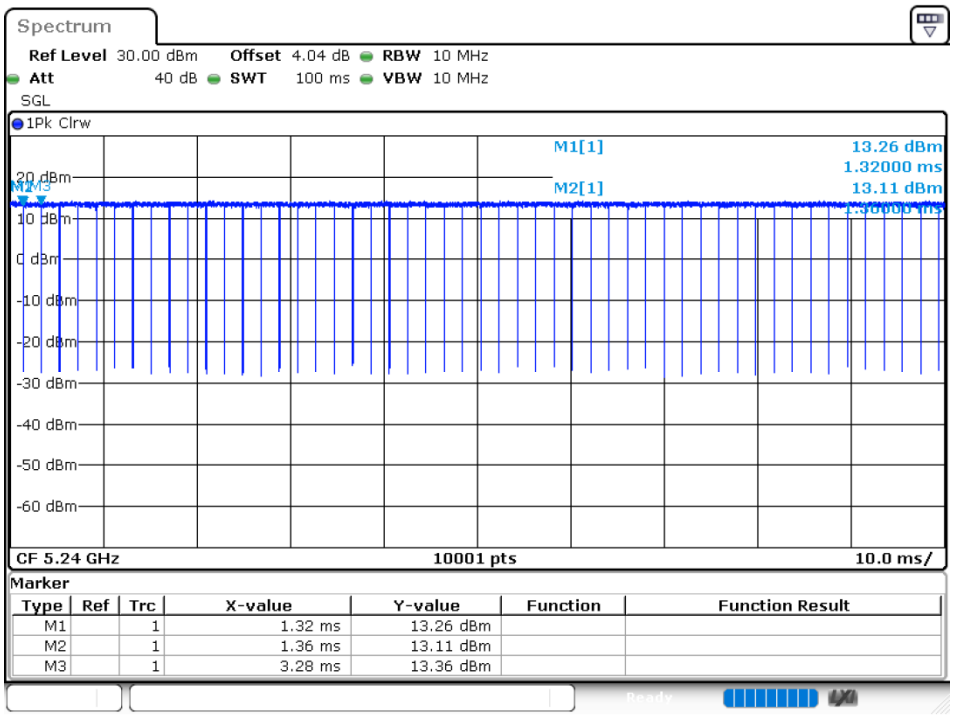
Duty Cycle NVNT n20 5180MHz Ant1



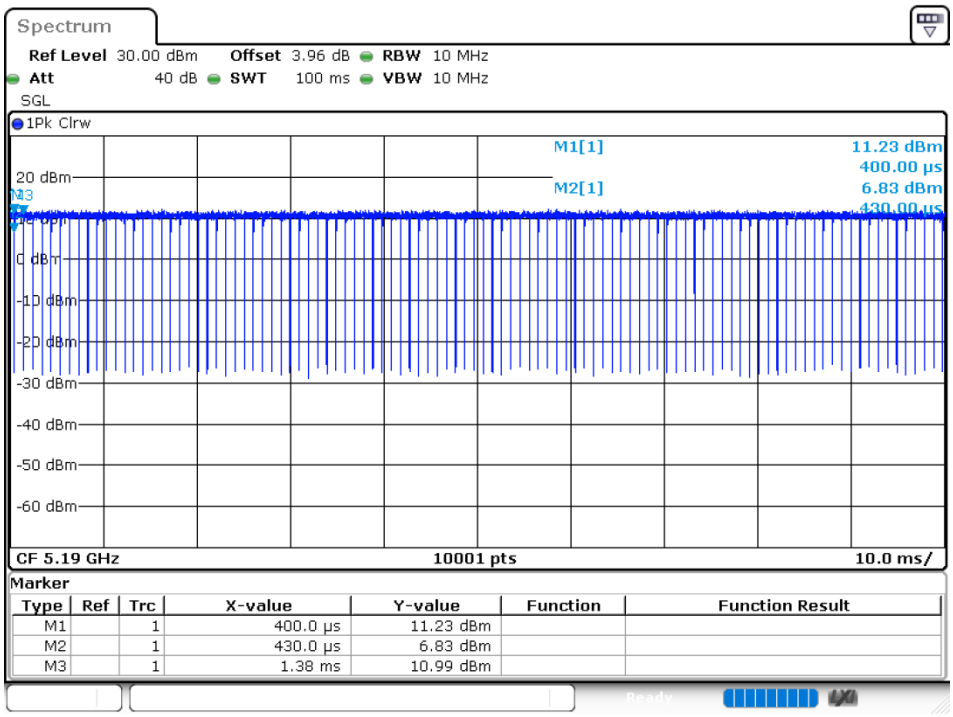
Duty Cycle NVNT n20 5200MHz Ant1



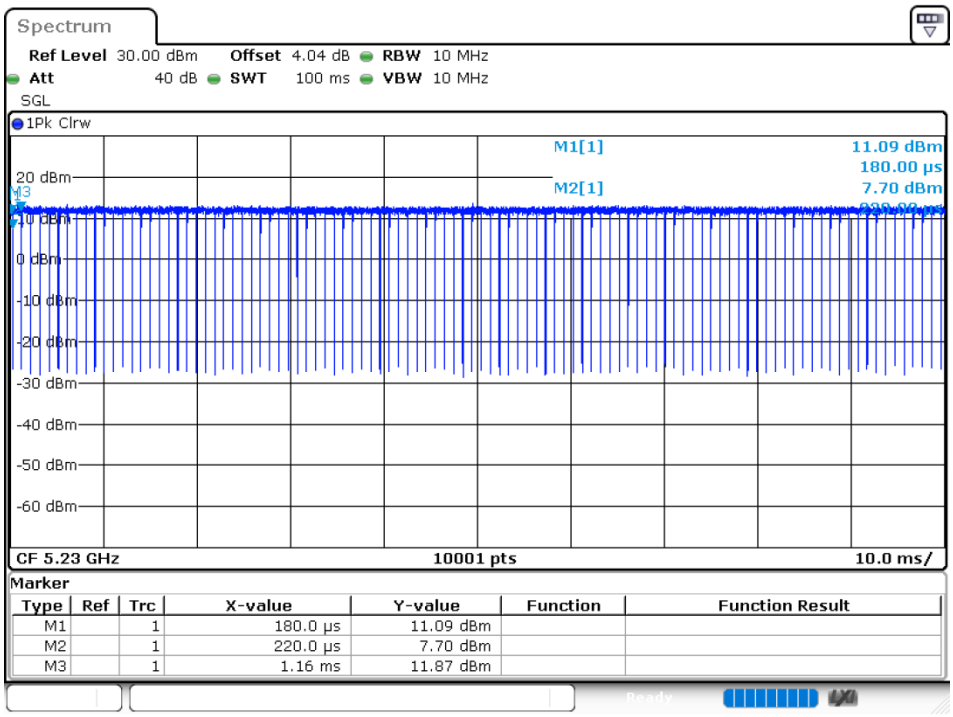
Duty Cycle NVNT n20 5240MHz Ant1



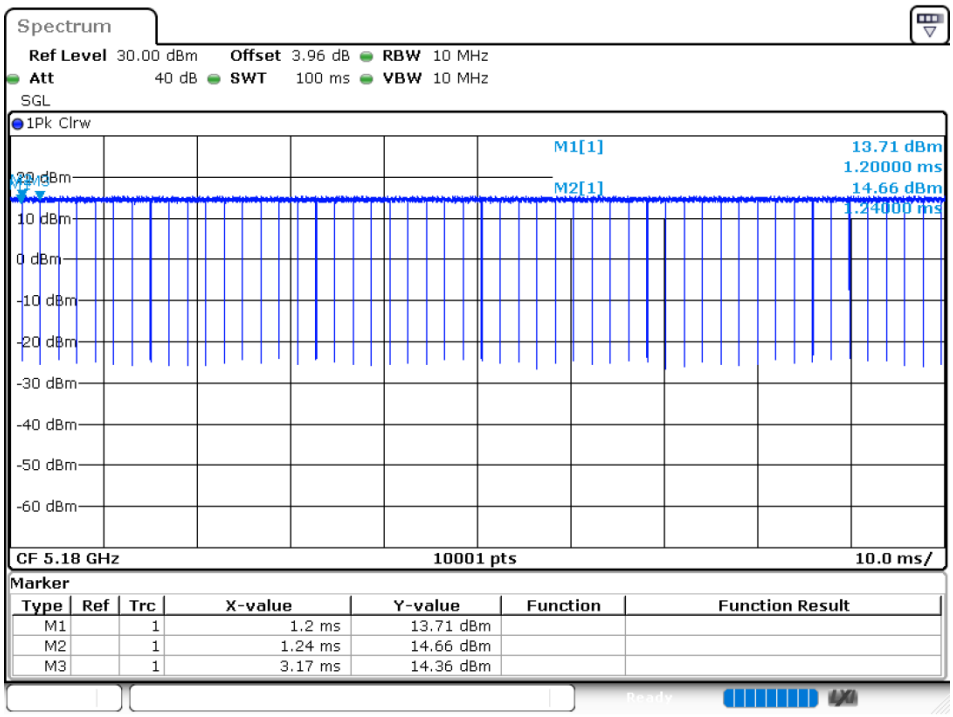
Duty Cycle NVNT n40 5190MHz Ant1



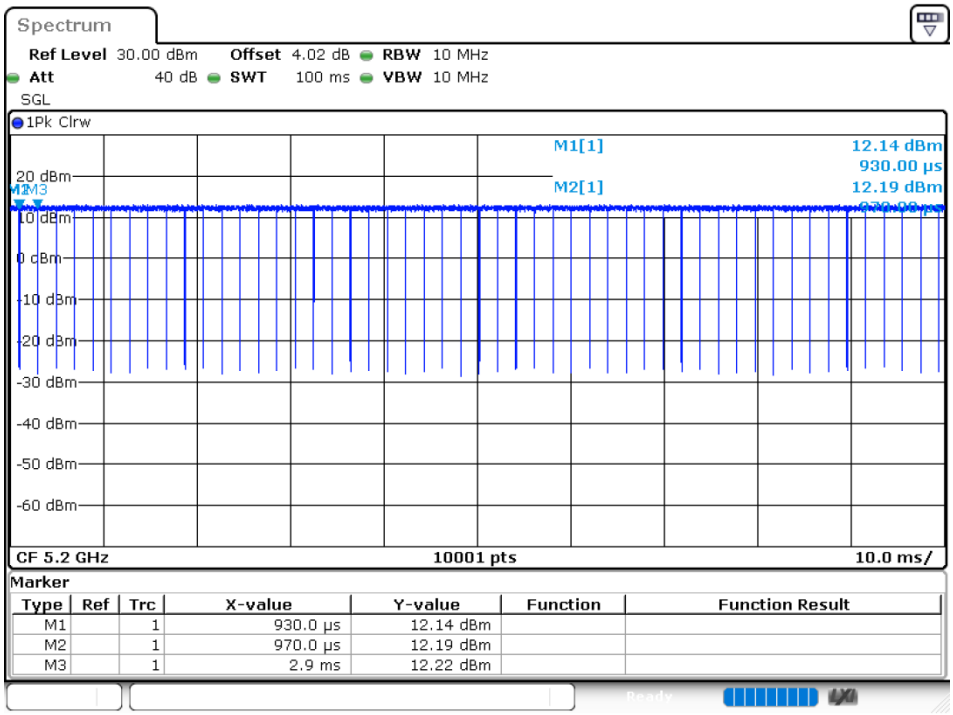
Duty Cycle NVNT n40 5230MHz Ant1



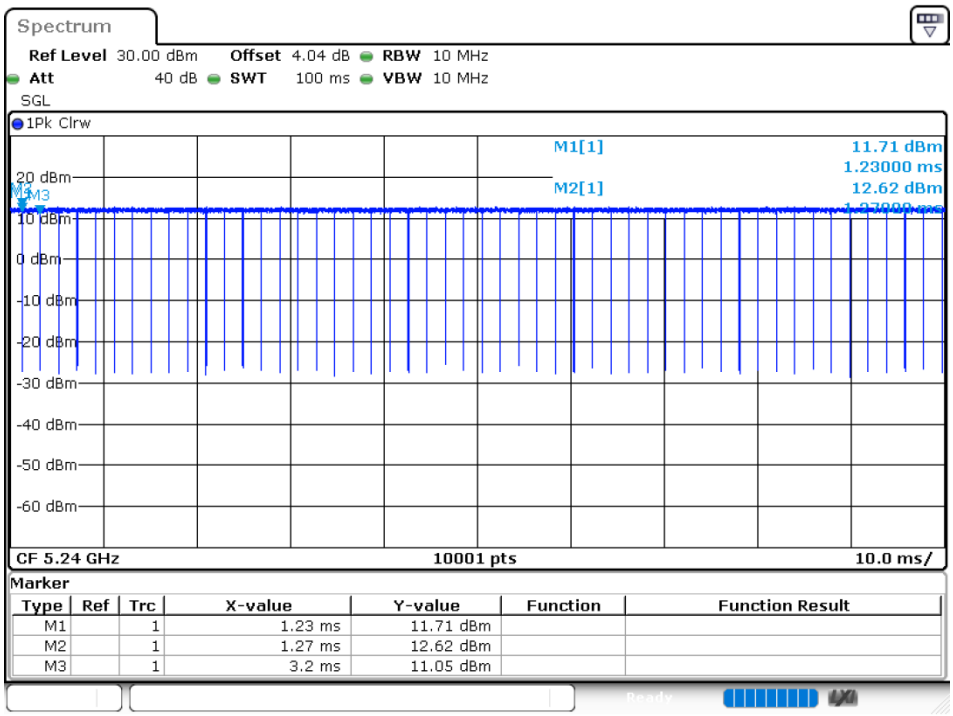
Duty Cycle NVNT ac20 5180MHz Ant2



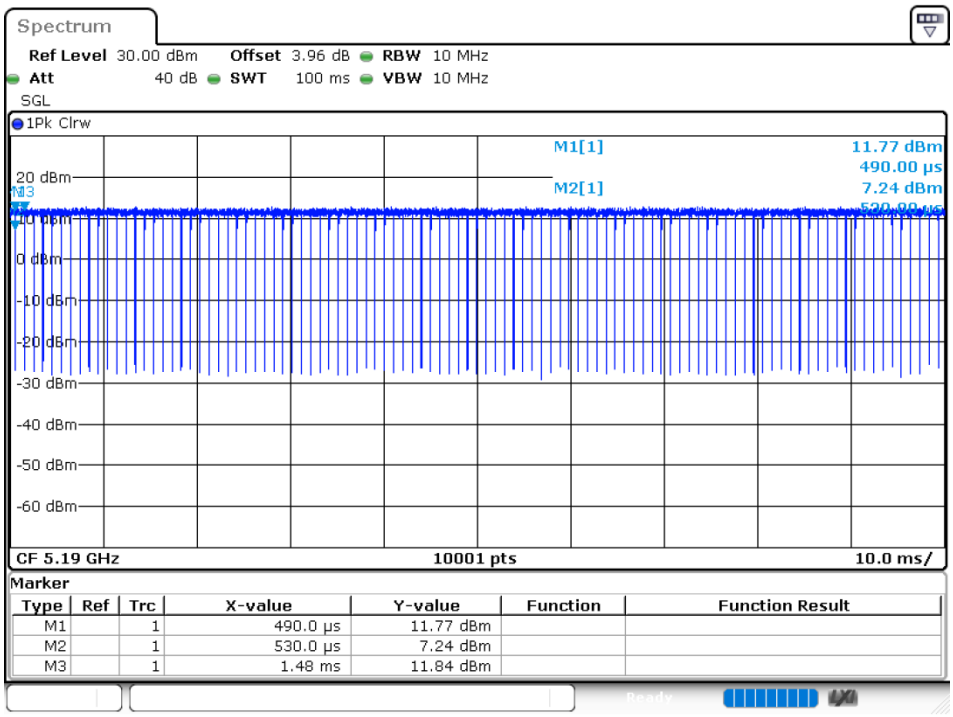
Duty Cycle NVNT ac20 5200MHz Ant2



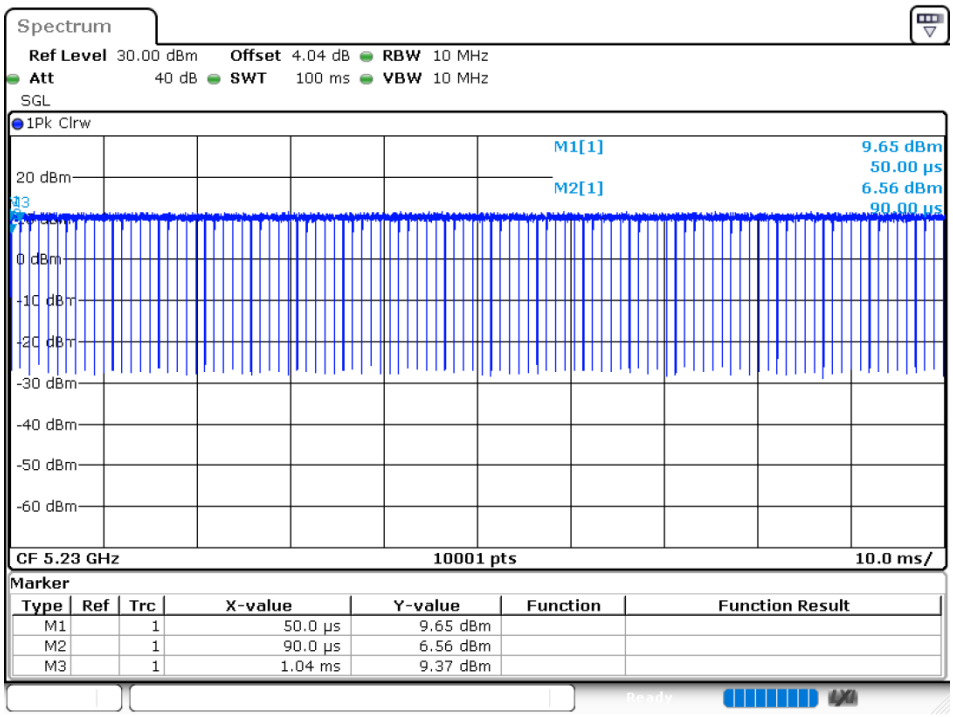
Duty Cycle NVNT ac20 5240MHz Ant2



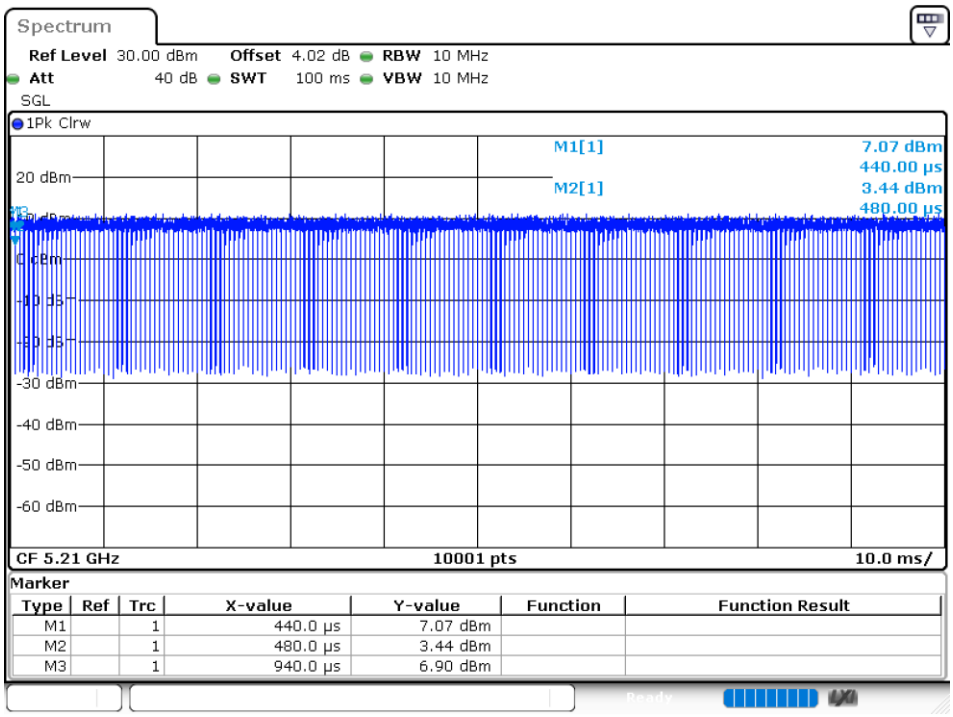
Duty Cycle NVNT ac40 5190MHz Ant2



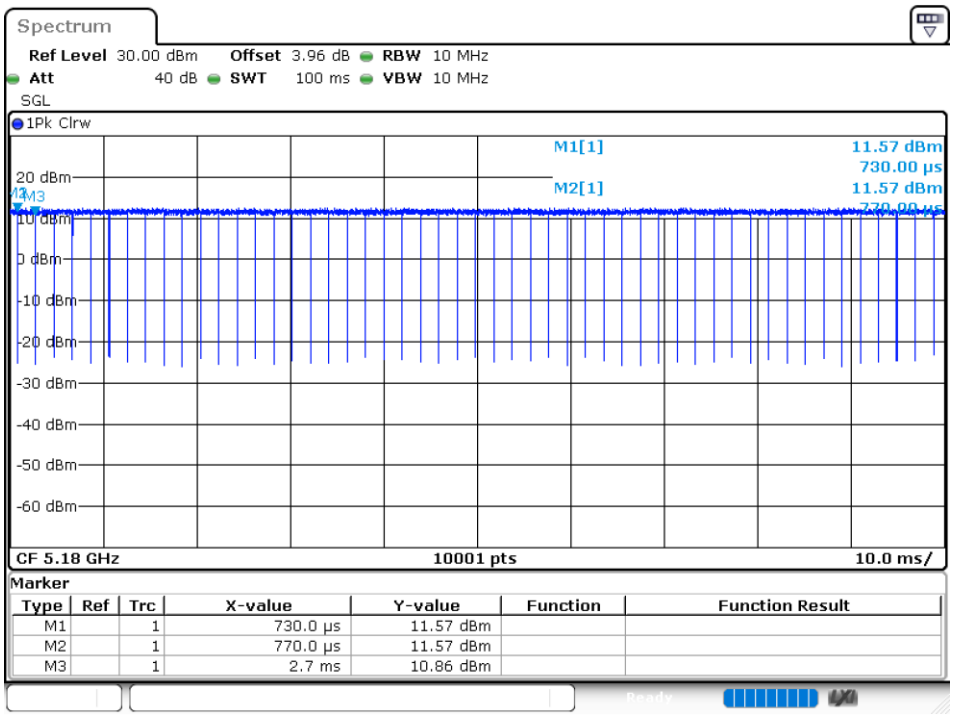
Duty Cycle NVNT ac40 5230MHz Ant2



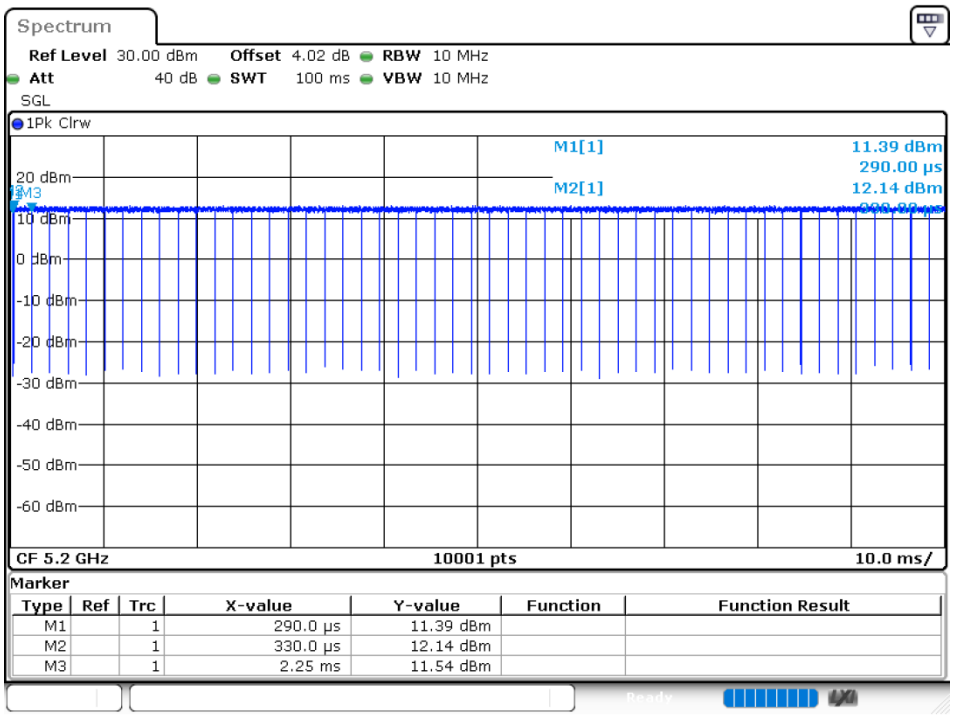
Duty Cycle NVNT ac80 5210MHz Ant2



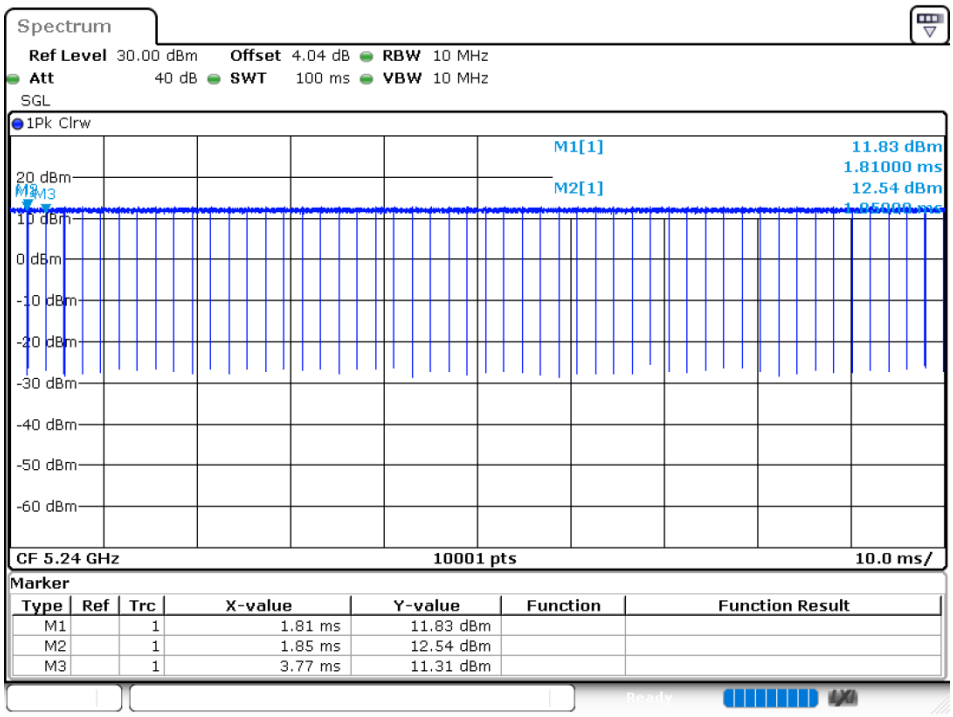
Duty Cycle NVNT n20 5180MHz Ant2



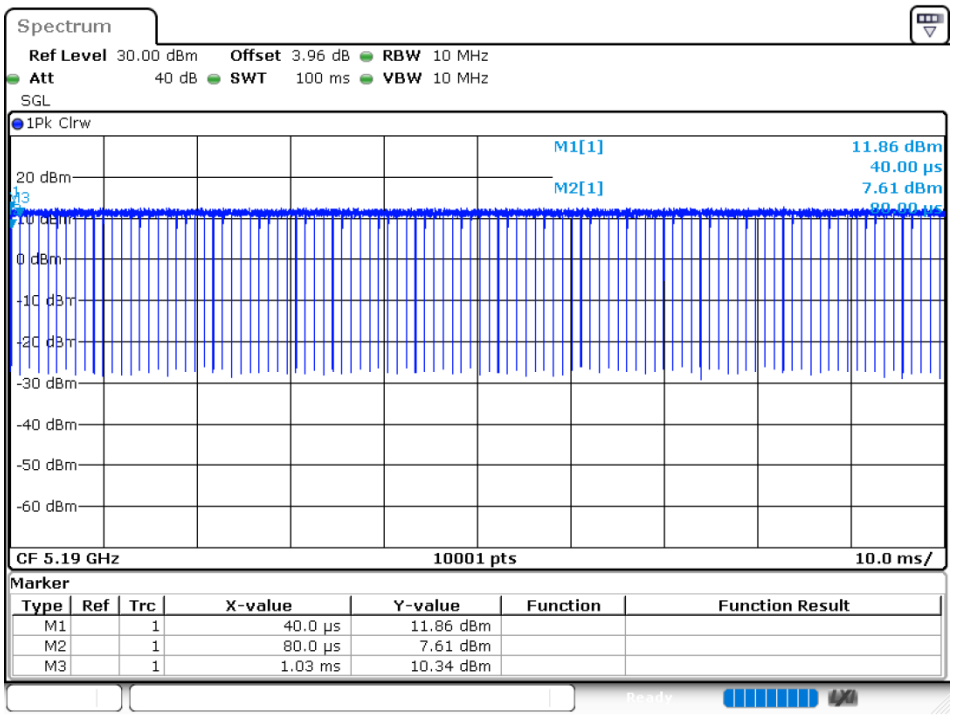
Duty Cycle NVNT n20 5200MHz Ant2



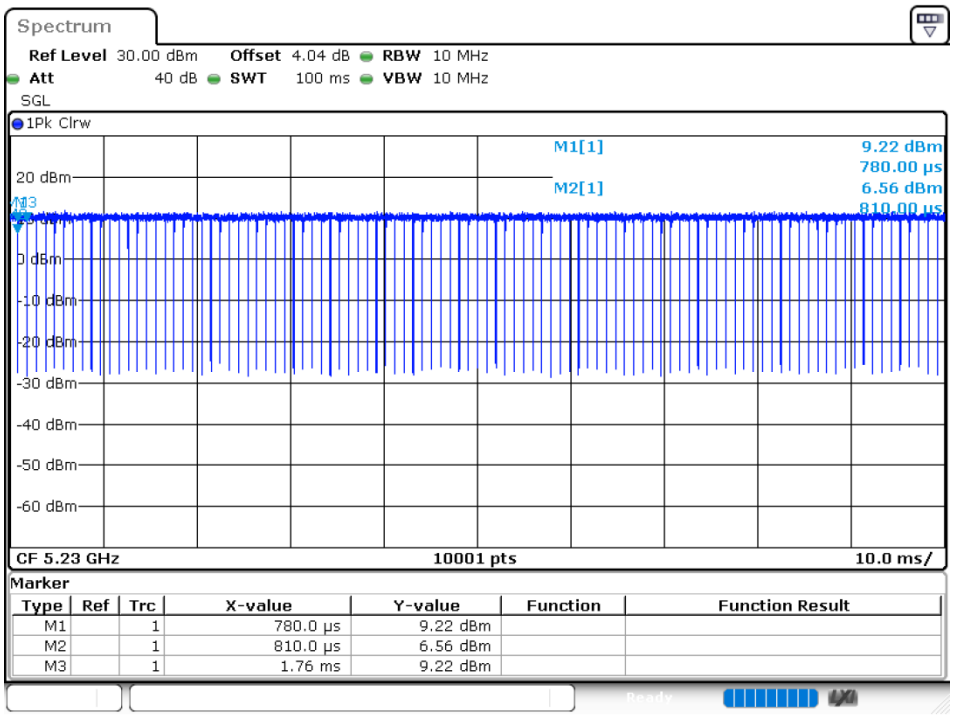
Duty Cycle NVNT n20 5240MHz Ant2



Duty Cycle NVNT n40 5190MHz Ant2



Duty Cycle NVNT n40 5230MHz Ant2



Maximum Conducted Output Power

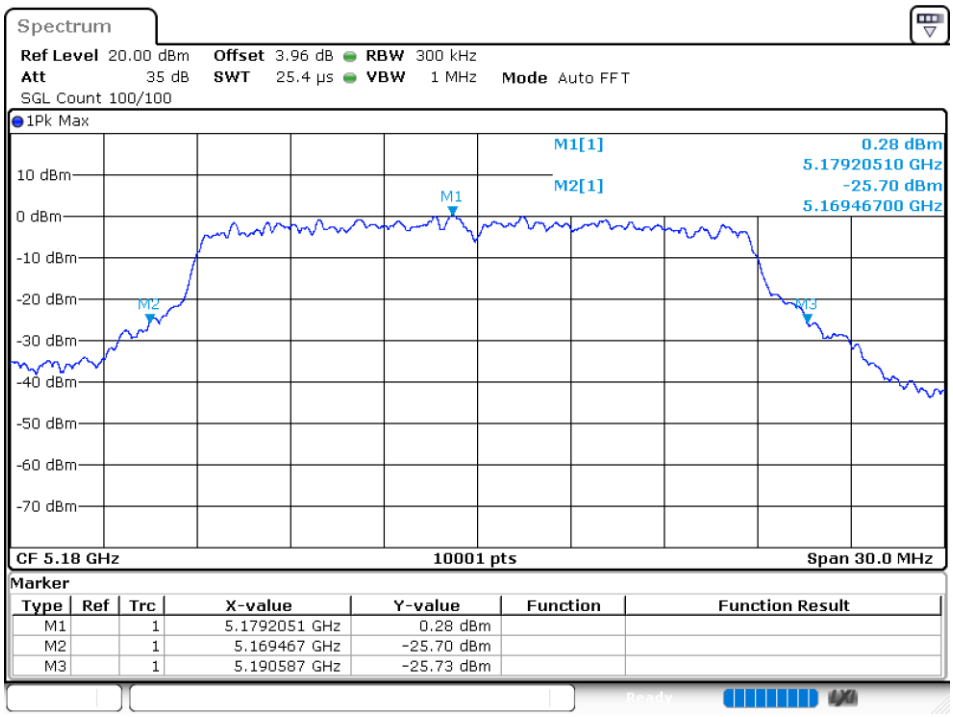
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	10.32	21.81	Pass
NVNT	ac20	5180	Ant2	9.86	21.81	Pass
NVNT	ac20	5180	Sum	13.11	21.81	Pass
NVNT	ac20	5200	Ant1	9.27	21.81	Pass
NVNT	ac20	5200	Ant2	9.71	21.81	Pass
NVNT	ac20	5200	Sum	12.51	21.81	Pass
NVNT	ac20	5240	Ant1	10.8	21.81	Pass
NVNT	ac20	5240	Ant2	9.47	21.81	Pass
NVNT	ac20	5240	Sum	13.2	21.81	Pass
NVNT	ac40	5190	Ant1	10.15	21.81	Pass
NVNT	ac40	5190	Ant2	9.87	21.81	Pass
NVNT	ac40	5190	Sum	13.02	21.81	Pass
NVNT	ac40	5230	Ant1	10.82	21.81	Pass
NVNT	ac40	5230	Ant2	9.57	21.81	Pass
NVNT	ac40	5230	Sum	13.25	21.81	Pass
NVNT	ac80	5210	Ant1	9.41	21.81	Pass
NVNT	ac80	5210	Ant2	9.51	21.81	Pass
NVNT	ac80	5210	Sum	12.47	21.81	Pass
NVNT	n20	5180	Ant1	10.51	21.81	Pass
NVNT	n20	5180	Ant2	9.8	21.81	Pass
NVNT	n20	5180	Sum	13.18	21.81	Pass
NVNT	n20	5200	Ant1	9.37	21.81	Pass
NVNT	n20	5200	Ant2	9.66	21.81	Pass
NVNT	n20	5200	Sum	12.53	21.81	Pass
NVNT	n20	5240	Ant1	10.8	21.81	Pass
NVNT	n20	5240	Ant2	9.25	21.81	Pass
NVNT	n20	5240	Sum	13.1	21.81	Pass
NVNT	n40	5190	Ant1	9.99	21.81	Pass
NVNT	n40	5190	Ant2	9.82	21.81	Pass
NVNT	n40	5190	Sum	12.92	21.81	Pass
NVNT	n40	5230	Ant1	10.85	21.81	Pass
NVNT	n40	5230	Ant2	9.51	21.81	Pass
NVNT	n40	5230	Sum	13.24	21.81	Pass

Note: The conducted power values of Ant1 and Ant 2 already include the duty cycle factor.

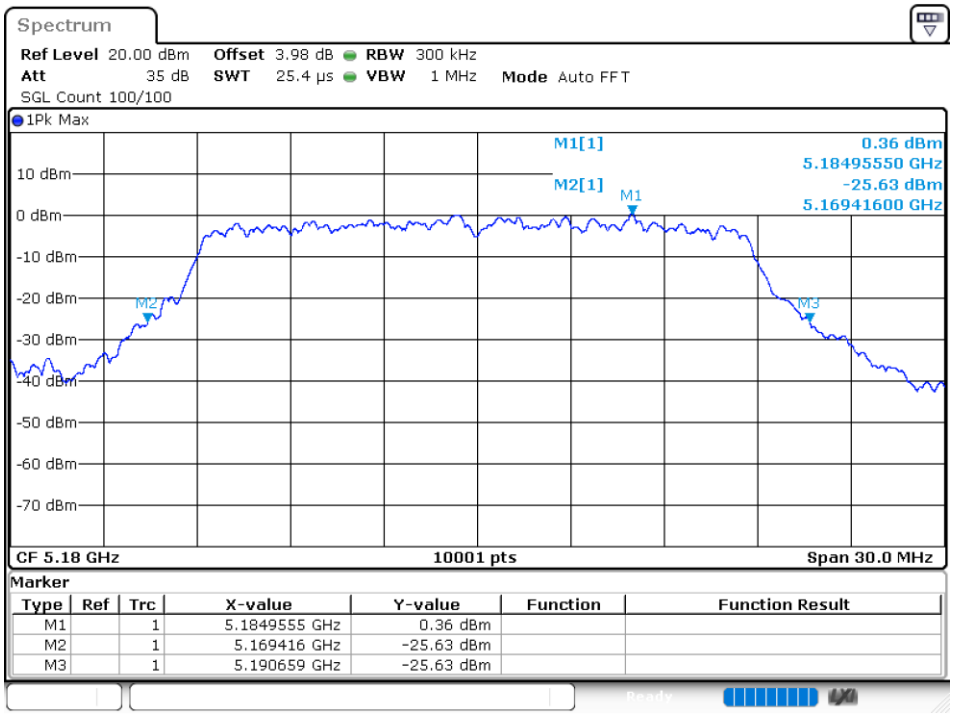
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	ac20	5180	Ant1	21.12	Pass
NVNT	ac20	5180	Ant2	21.243	Pass
NVNT	ac20	5200	Ant1	21.387	Pass
NVNT	ac20	5200	Ant2	21.357	Pass
NVNT	ac20	5240	Ant1	22.236	Pass
NVNT	ac20	5240	Ant2	21.507	Pass
NVNT	ac40	5190	Ant1	41.52	Pass
NVNT	ac40	5190	Ant2	41.442	Pass
NVNT	ac40	5230	Ant1	41.058	Pass
NVNT	ac40	5230	Ant2	41.514	Pass
NVNT	ac80	5210	Ant1	82.968	Pass
NVNT	ac80	5210	Ant2	83.412	Pass
NVNT	n20	5180	Ant1	21.426	Pass
NVNT	n20	5180	Ant2	21.546	Pass
NVNT	n20	5200	Ant1	20.757	Pass
NVNT	n20	5200	Ant2	21.222	Pass
NVNT	n20	5240	Ant1	21.48	Pass
NVNT	n20	5240	Ant2	21.216	Pass
NVNT	n40	5190	Ant1	41.46	Pass
NVNT	n40	5190	Ant2	41.346	Pass
NVNT	n40	5230	Ant1	41.76	Pass
NVNT	n40	5230	Ant2	41.388	Pass

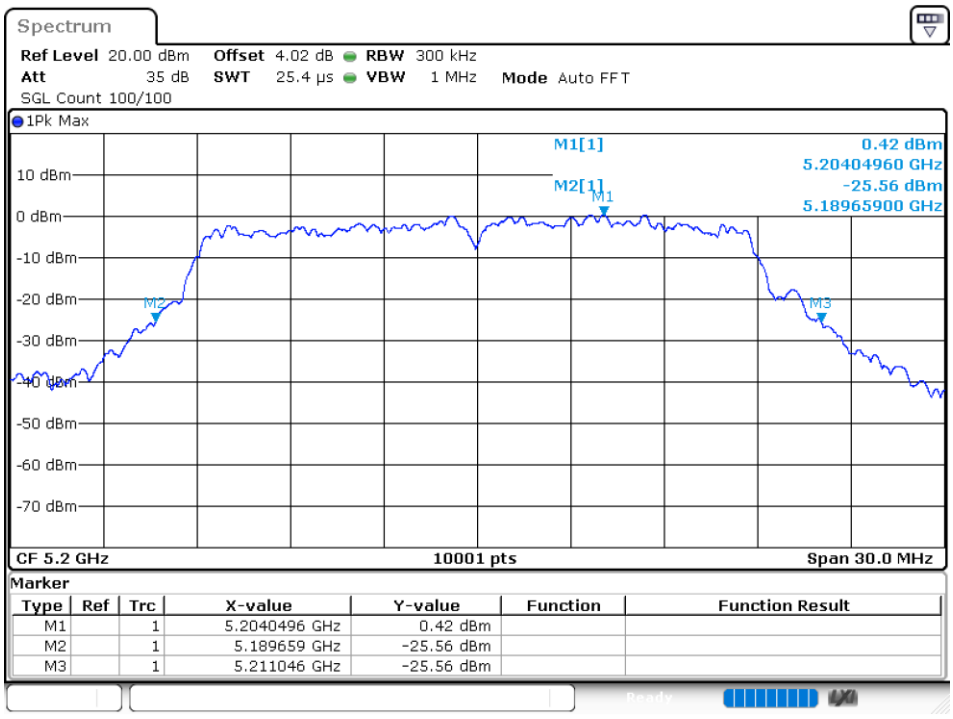
Test Graphs
-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant2



-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant2