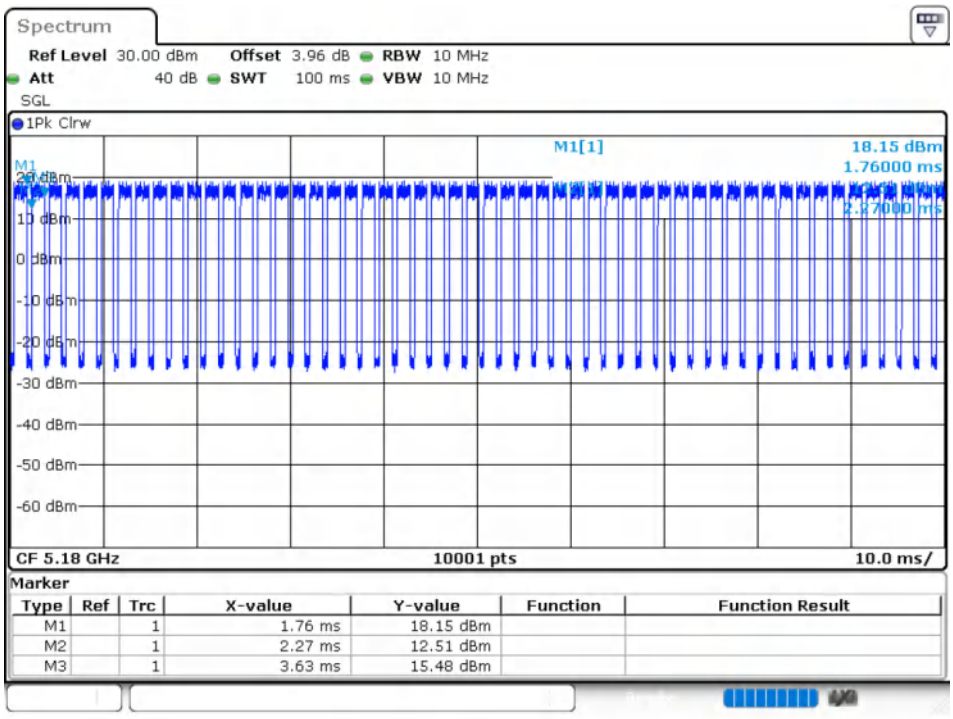
5.2G WIFI

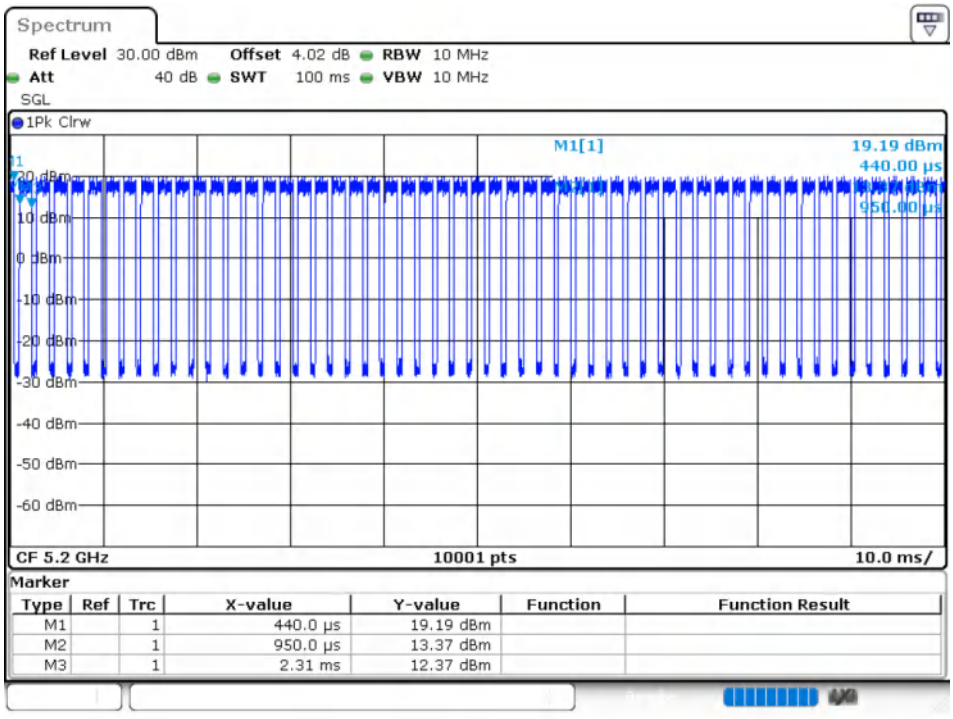
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	73.51	1.34	0.74
NVNT	a	5200	Ant1	73.42	1.34	0.74
NVNT	a	5240	Ant1	73.59	1.33	0.74
NVNT	a	5180	Ant2	73.46	1.34	0.74
NVNT	a	5200	Ant2	73.57	1.33	0.74
NVNT	a	5240	Ant2	73.82	1.32	0.74
NVNT	n20	5180	Ant1	72.03	1.42	0.79
NVNT	n20	5200	Ant1	72.43	1.4	0.79
NVNT	n20	5240	Ant1	72.16	1.42	0.79
NVNT	n20	5180	Ant2	72.06	1.42	0.79
NVNT	n20	5200	Ant2	72.45	1.4	0.79
NVNT	n20	5240	Ant2	72.23	1.41	0.78
NVNT	n40	5190	Ant1	56.58	2.47	1.59
NVNT	n40	5230	Ant1	56.68	2.47	1.56
NVNT	n40	5190	Ant2	56.51	2.48	1.59
NVNT	n40	5230	Ant2	56.61	2.47	1.56
NVNT	ac20	5180	Ant1	72.1	1.42	0.79
NVNT	ac20	5200	Ant1	72.01	1.43	0.78
NVNT	ac20	5240	Ant1	72.44	1.4	0.78
NVNT	ac20	5180	Ant2	72.47	1.4	0.78
NVNT	ac20	5200	Ant2	72.05	1.42	0.79
NVNT	ac20	5240	Ant2	72.51	1.4	0.78
NVNT	ac40	5190	Ant1	56.83	2.45	1.59
NVNT	ac40	5230	Ant1	56.69	2.46	1.56
NVNT	ac40	5190	Ant2	56.69	2.46	1.59
NVNT	ac40	5230	Ant2	56.73	2.46	1.59
NVNT	ac80	5210	Ant1	39.86	4	3.12
NVNT	ac80	5210	Ant2	41.04	3.87	3.12

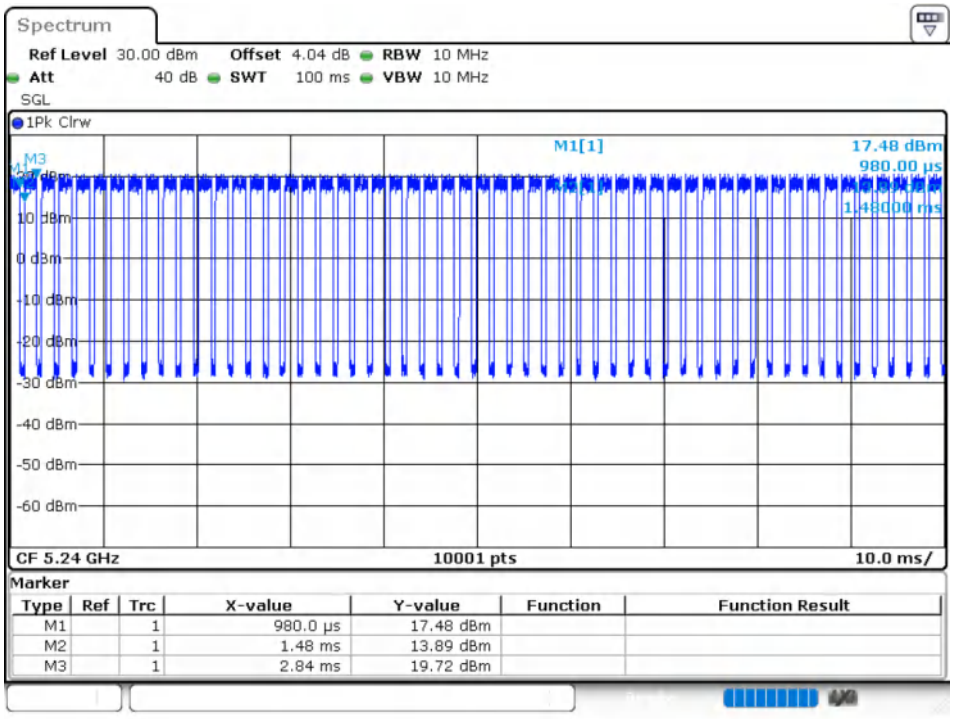
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



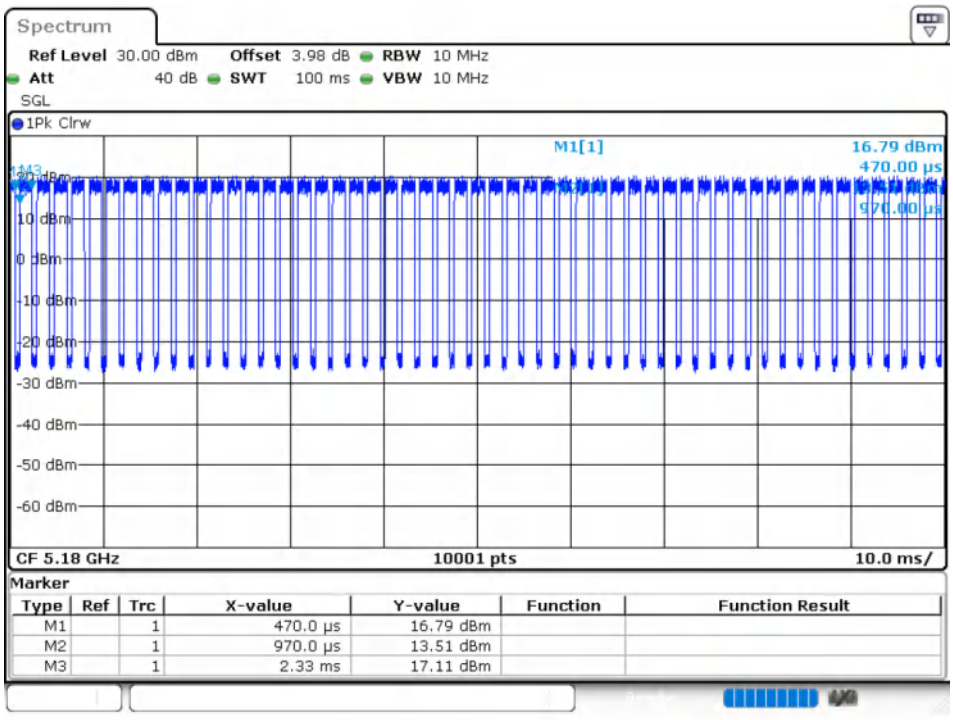
Duty Cycle NVNT a 5200MHz Ant1



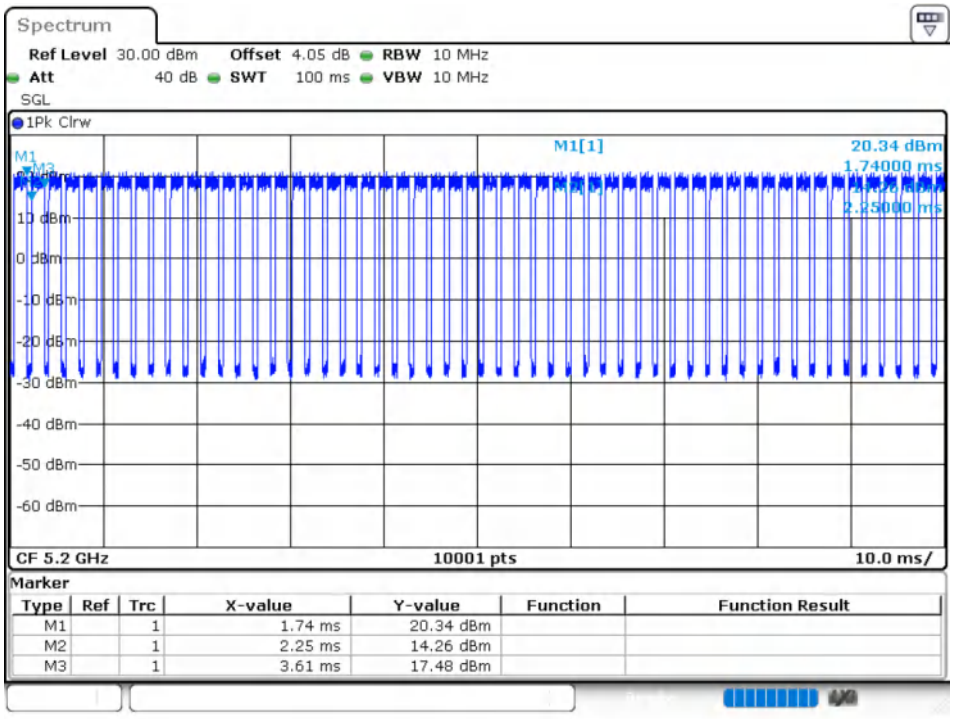
Duty Cycle NVNT a 5240MHz Ant1



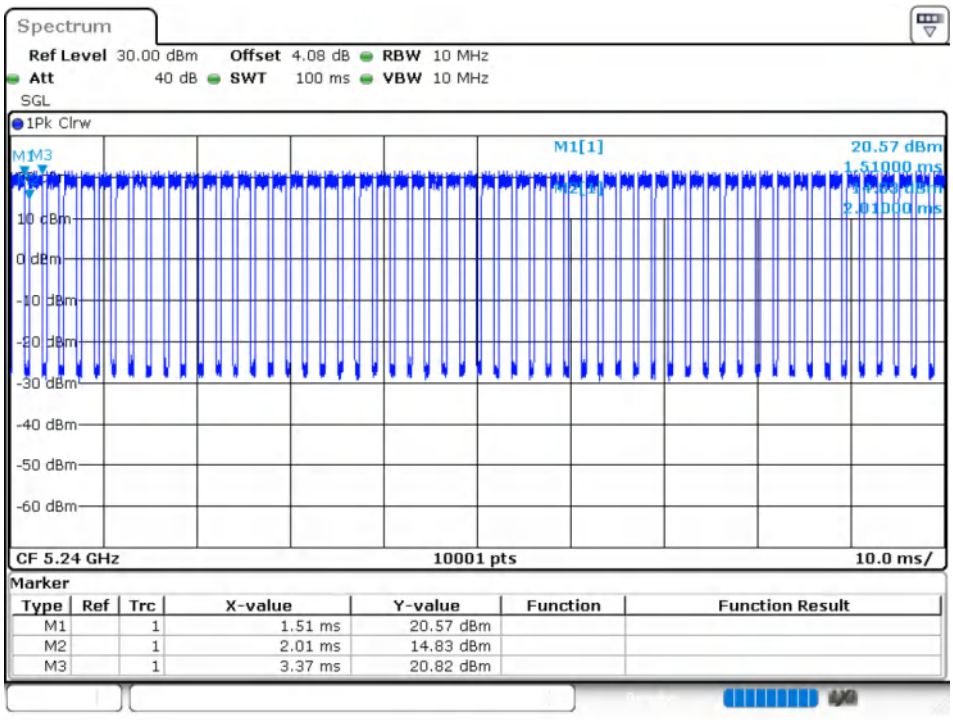
Duty Cycle NVNT a 5180MHz Ant2



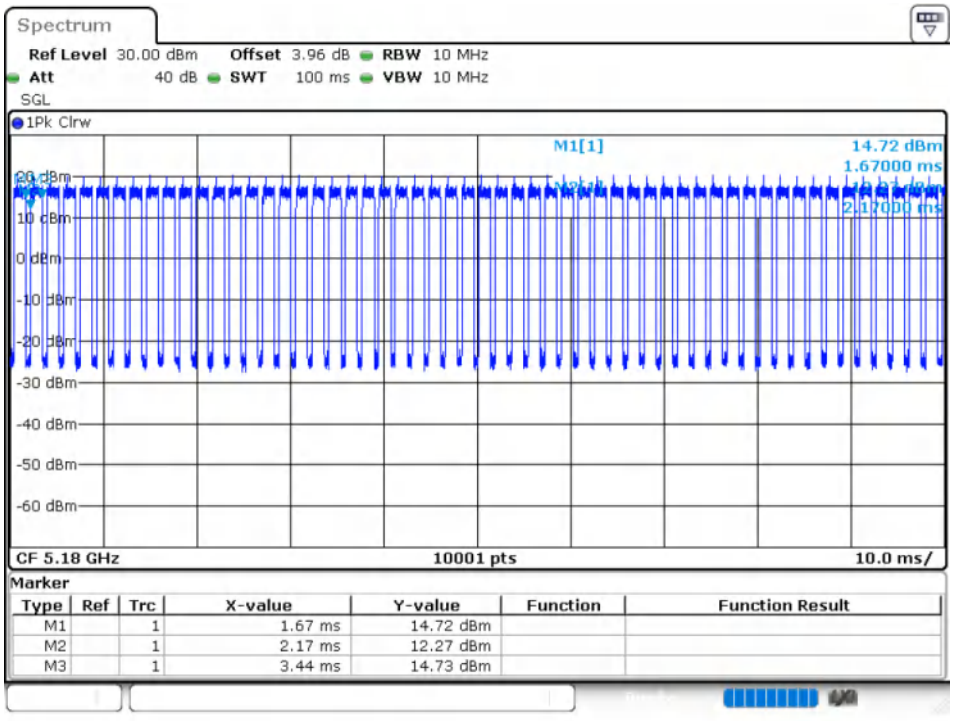
Duty Cycle NVNT a 5200MHz Ant2



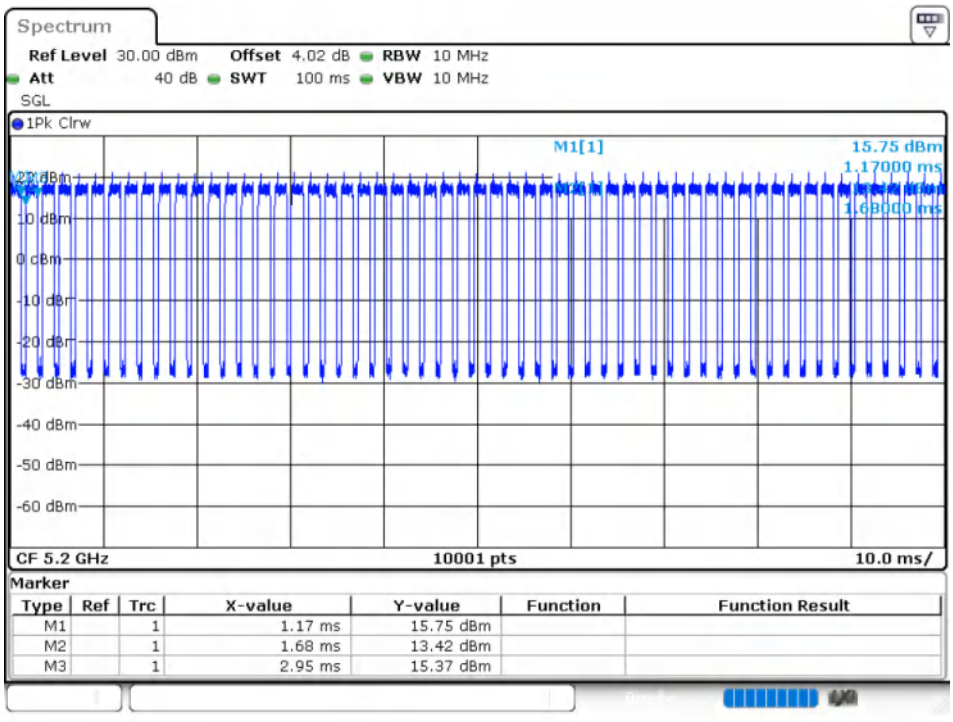
Duty Cycle NVNT a 5240MHz Ant2



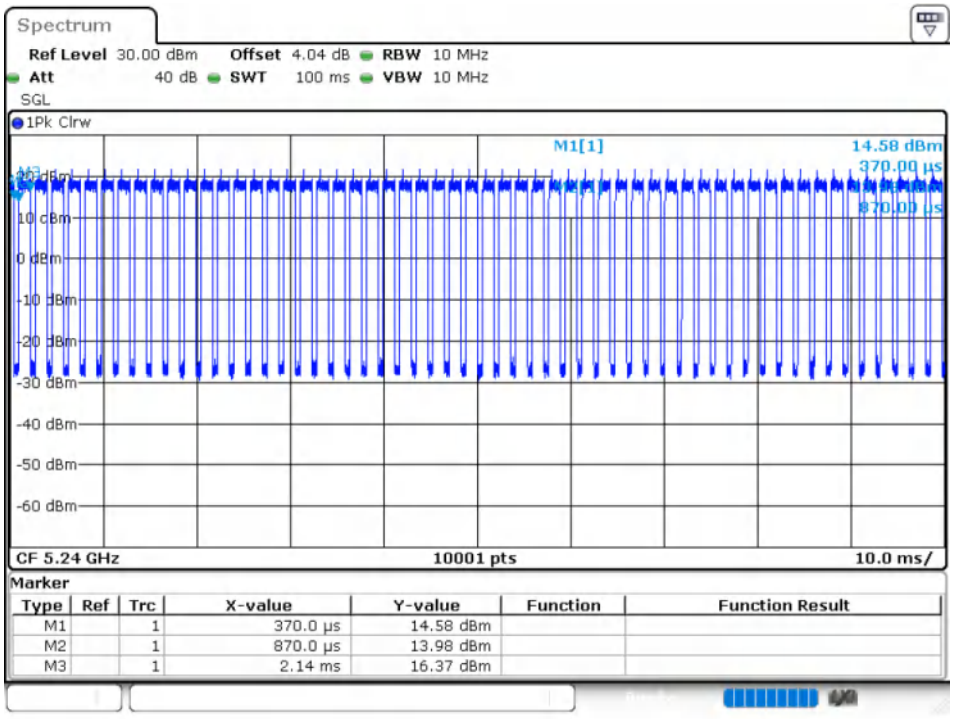
Duty Cycle NVNT n20 5180MHz Ant1



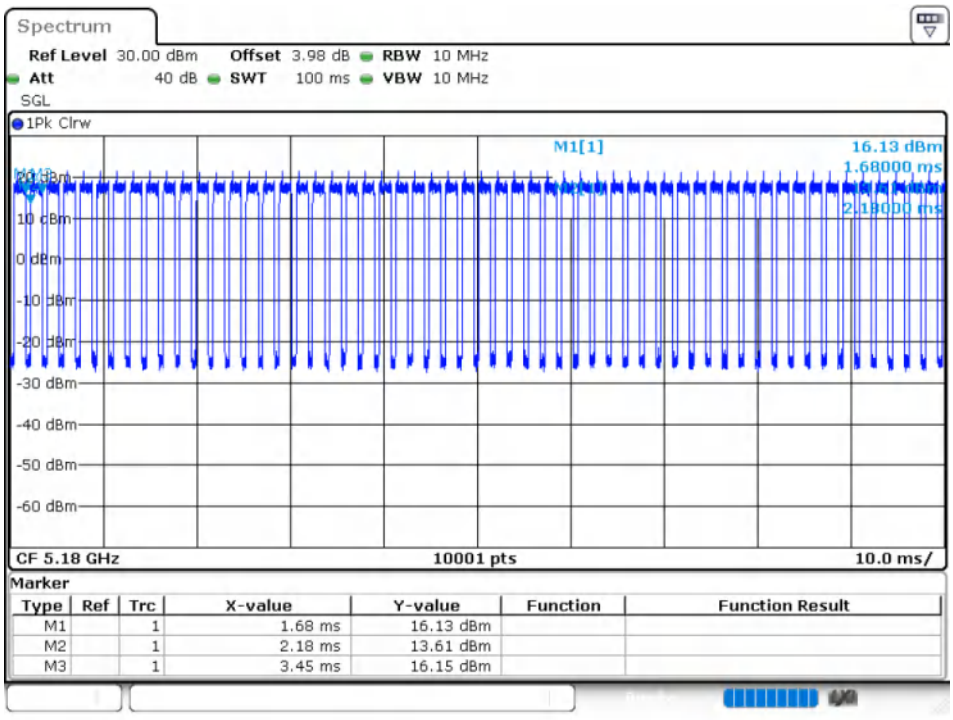
Duty Cycle NVNT n20 5200MHz Ant1



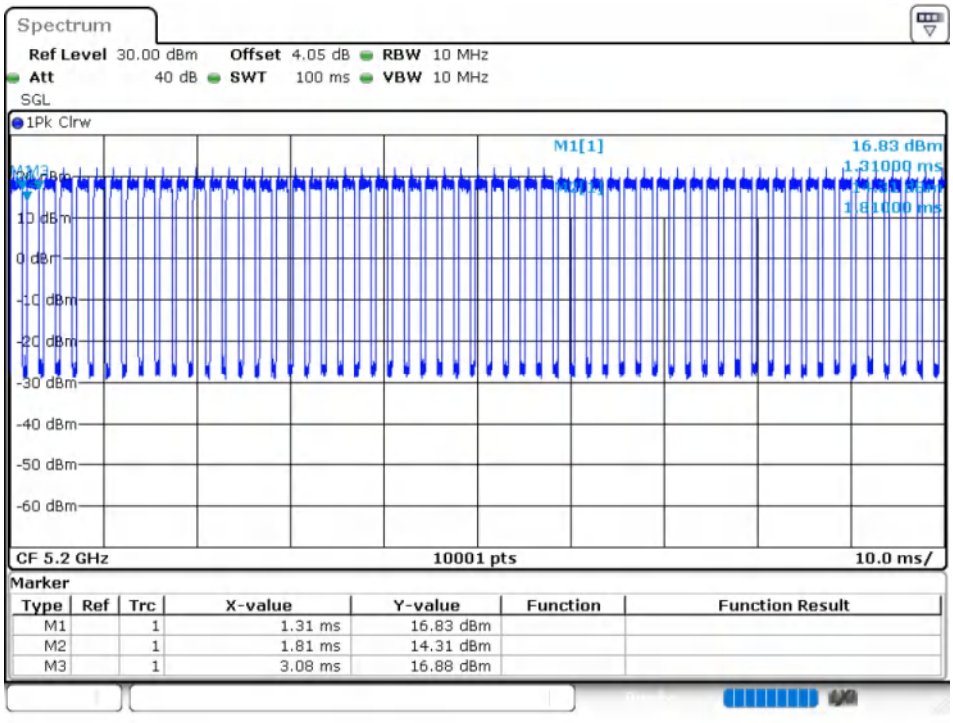
Duty Cycle NVNT n20 5240MHz Ant1



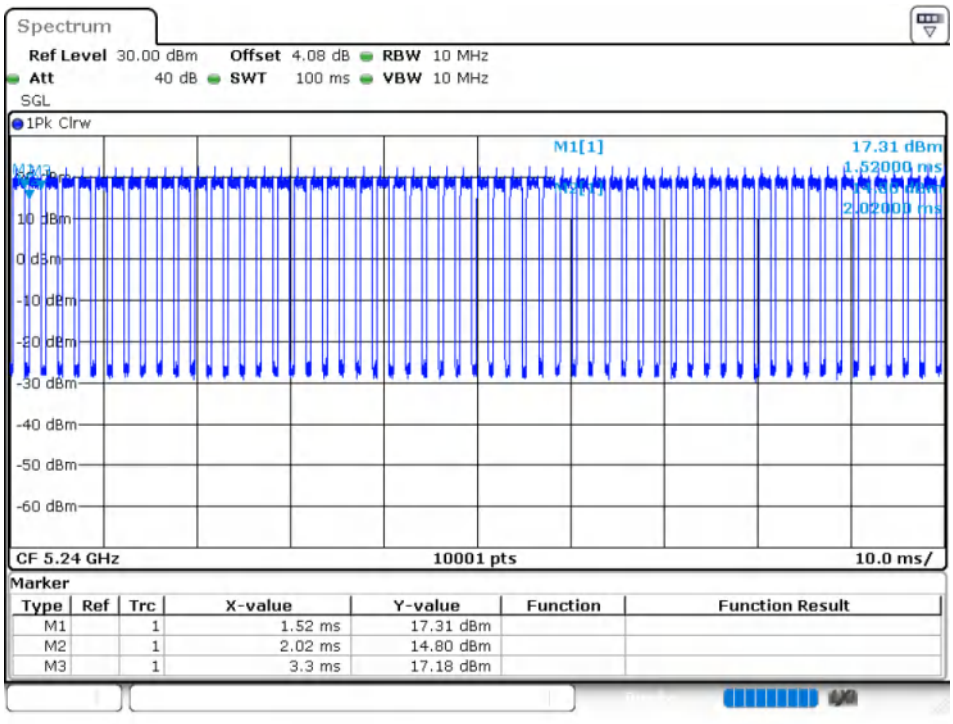
Duty Cycle NVNT n20 5180MHz Ant2



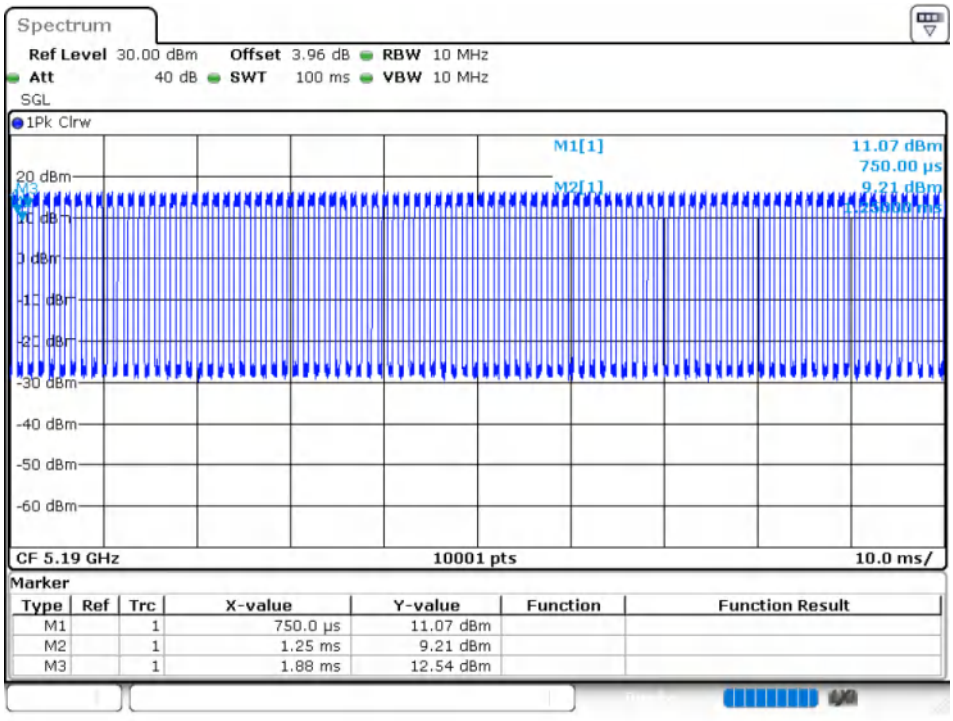
Duty Cycle NVNT n20 5200MHz Ant2



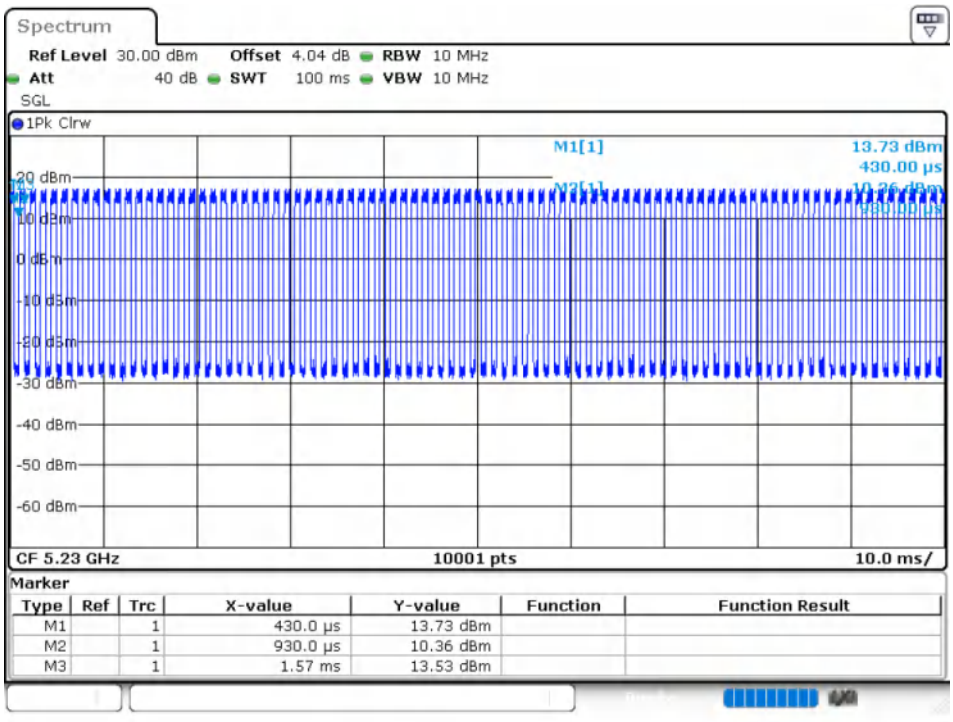
Duty Cycle NVNT n20 5240MHz Ant2



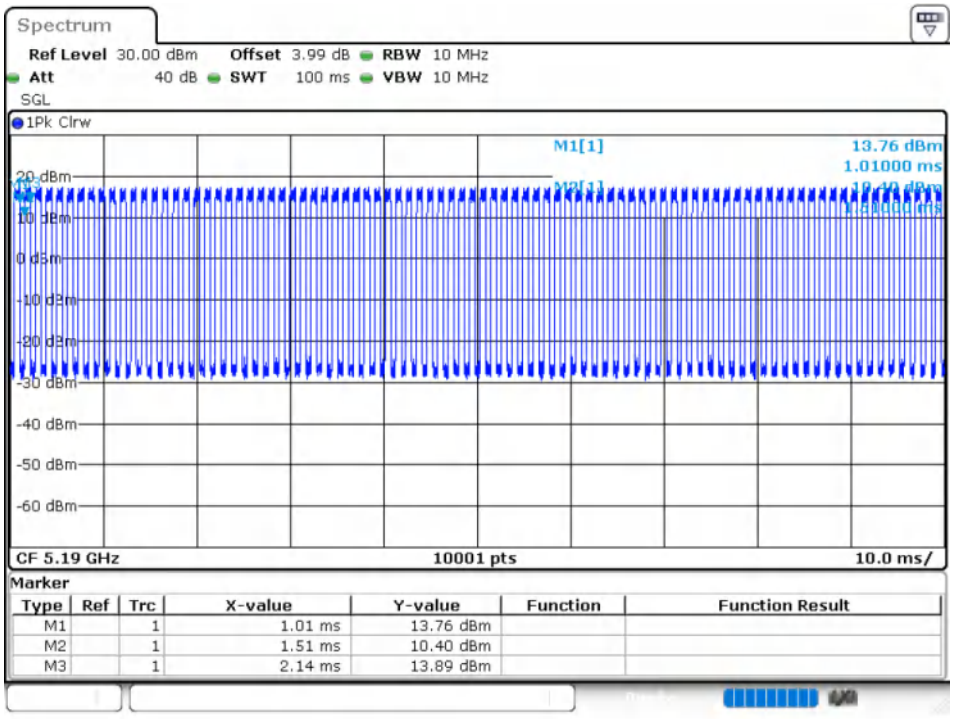
Duty Cycle NVNT n40 5190MHz Ant1



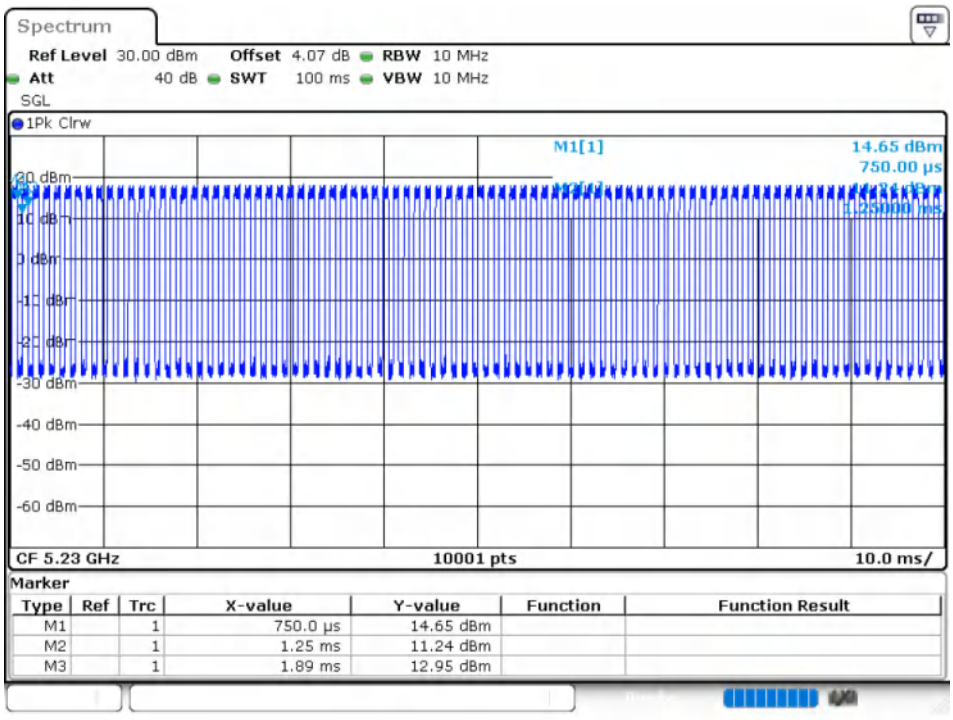
Duty Cycle NVNT n40 5230MHz Ant1



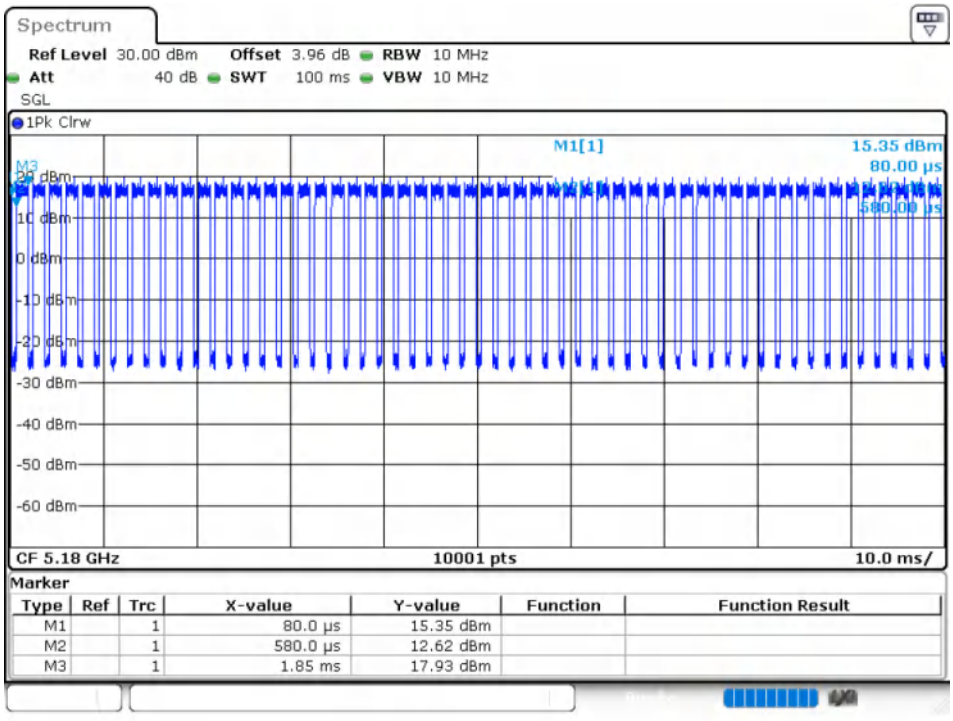
Duty Cycle NVNT n40 5190MHz Ant2



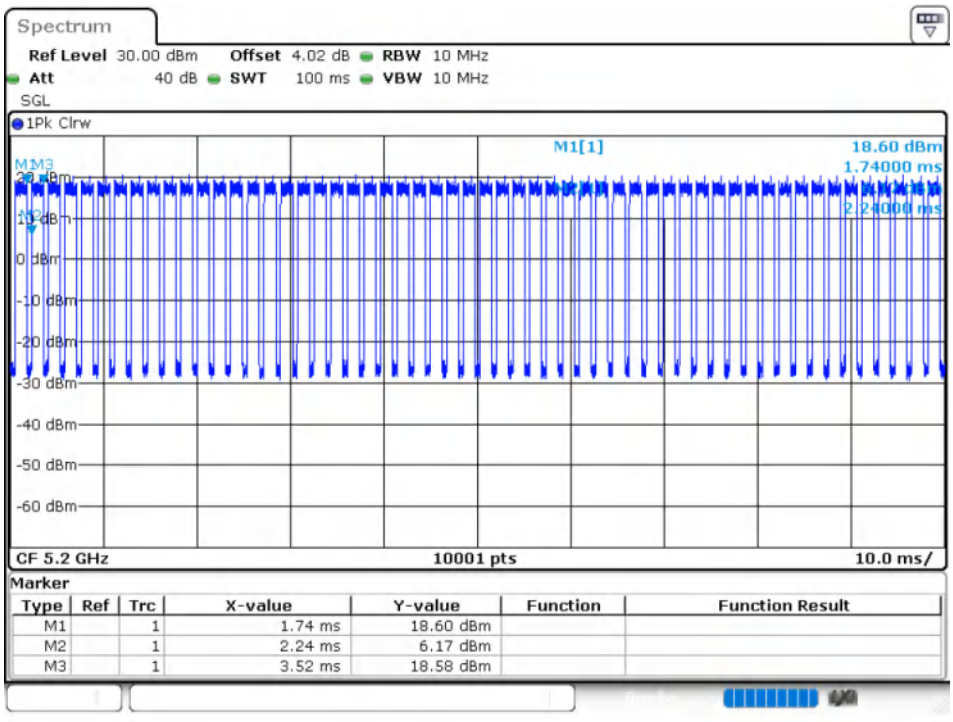
Duty Cycle NVNT n40 5230MHz Ant2



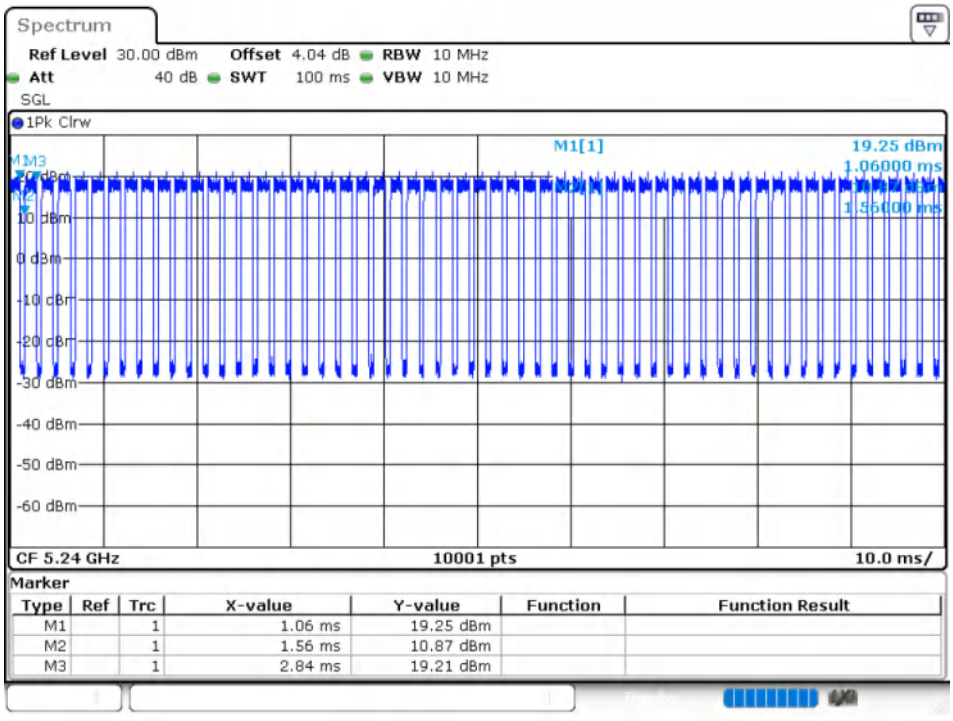
Duty Cycle NVNT ac20 5180MHz Ant1



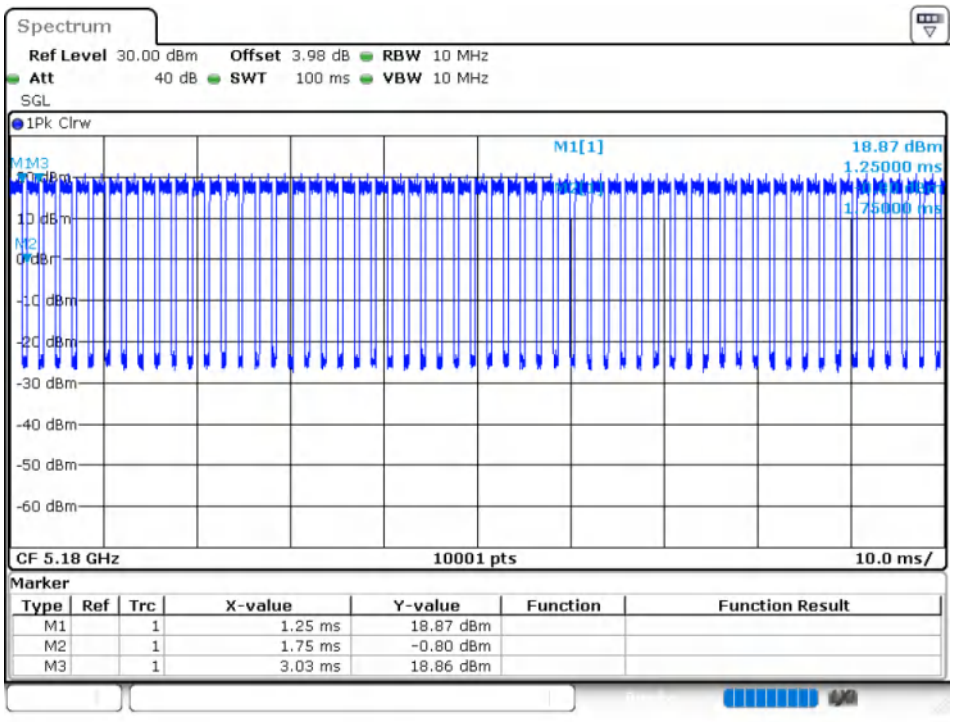
Duty Cycle NVNT ac20 5200MHz Ant1



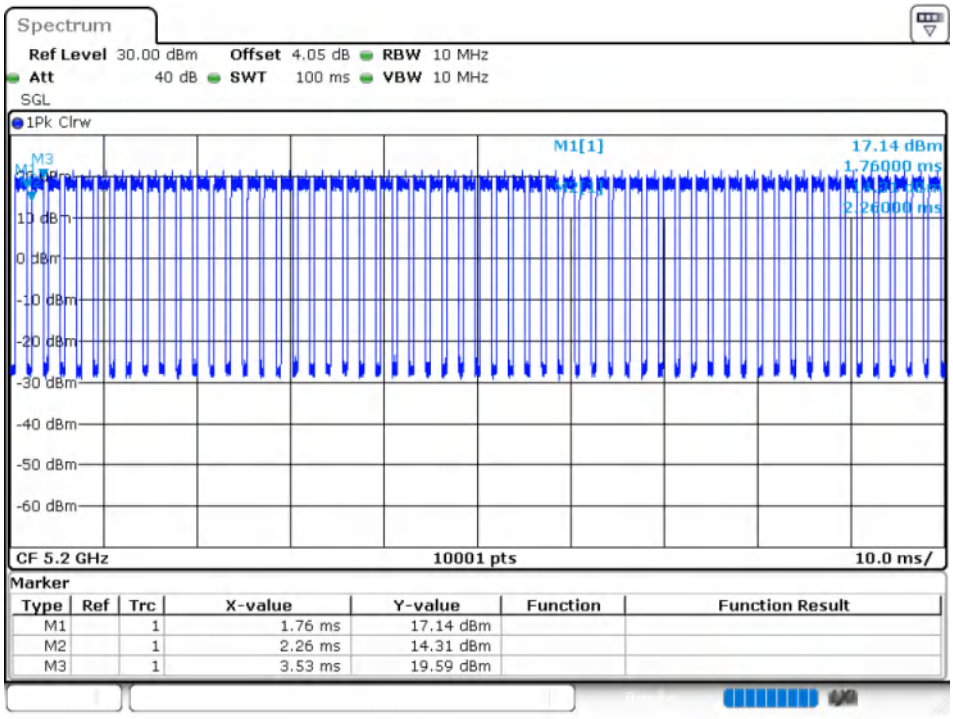
Duty Cycle NVNT ac20 5240MHz Ant1



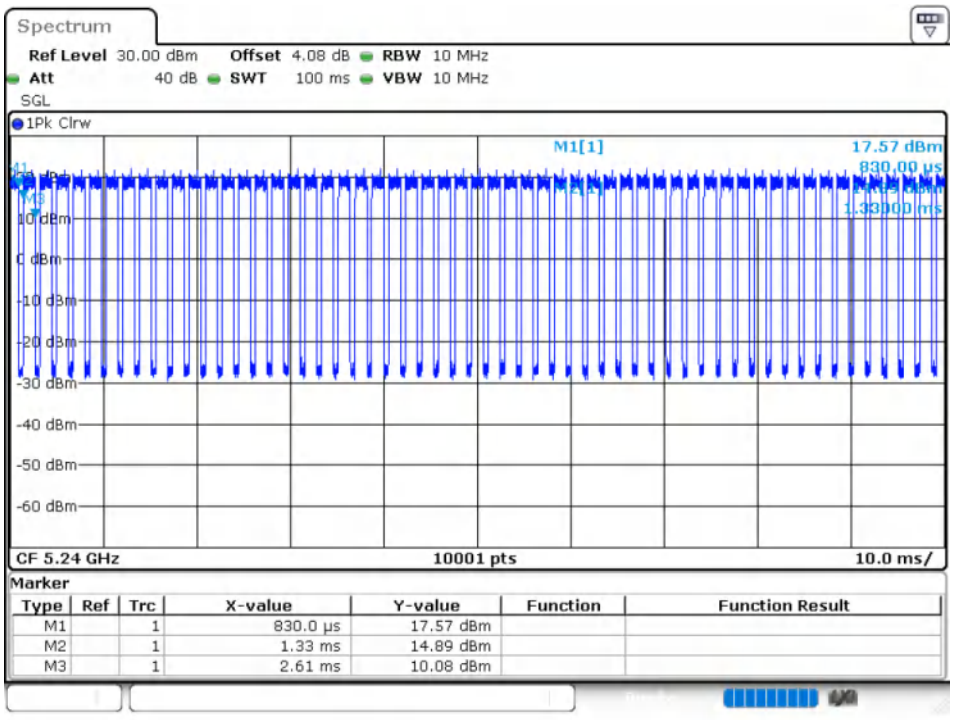
Duty Cycle NVNT ac20 5180MHz Ant2



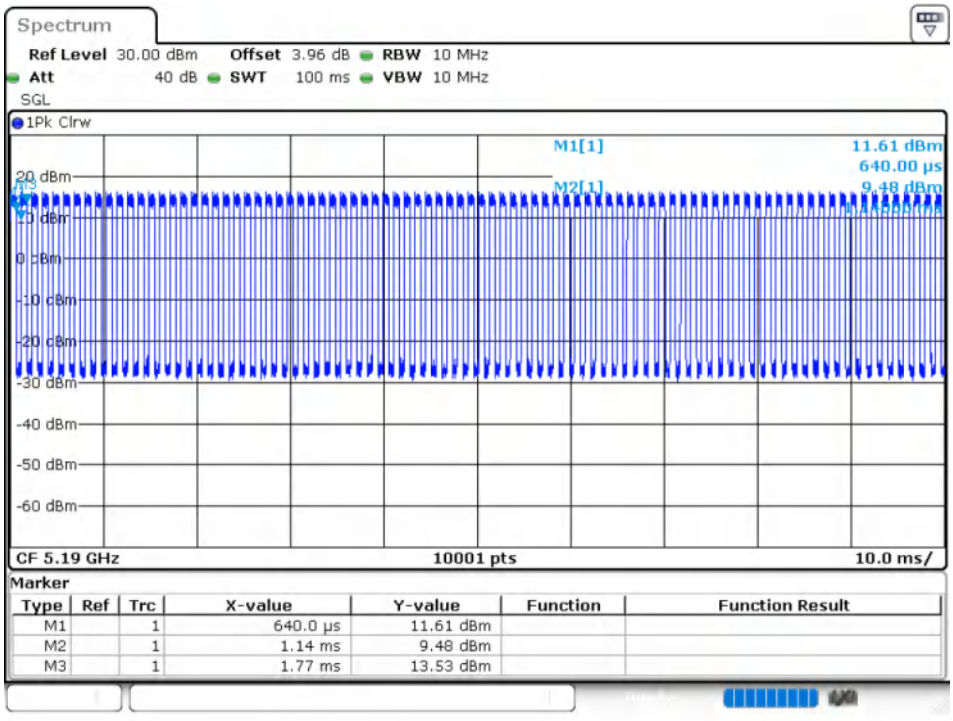
Duty Cycle NVNT ac20 5200MHz Ant2



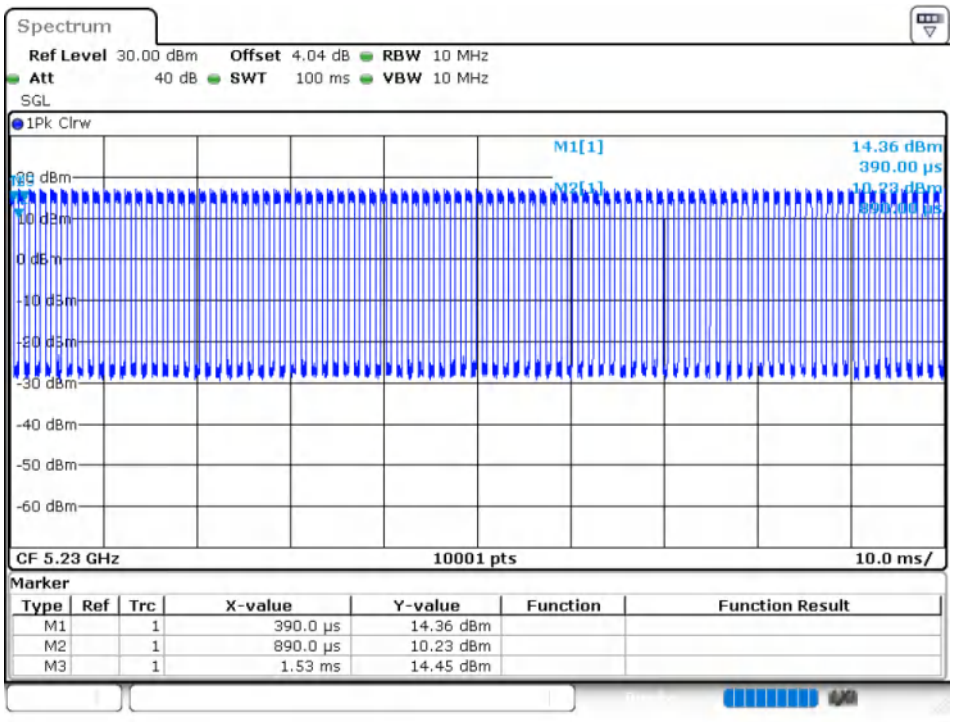
Duty Cycle NVNT ac20 5240MHz Ant2



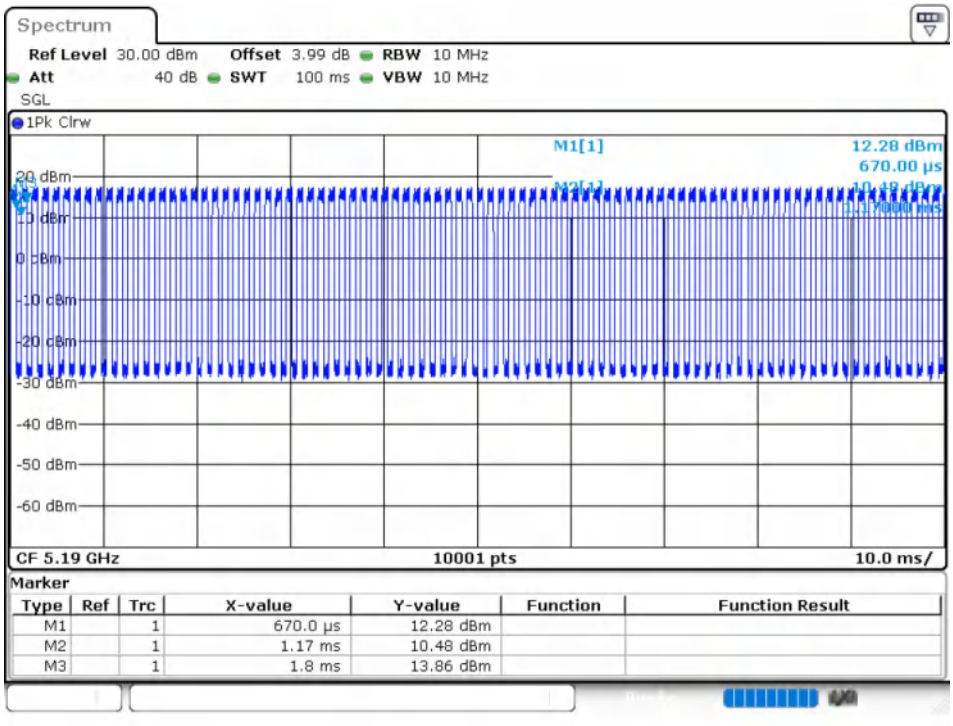
Duty Cycle NVNT ac40 5190MHz Ant1



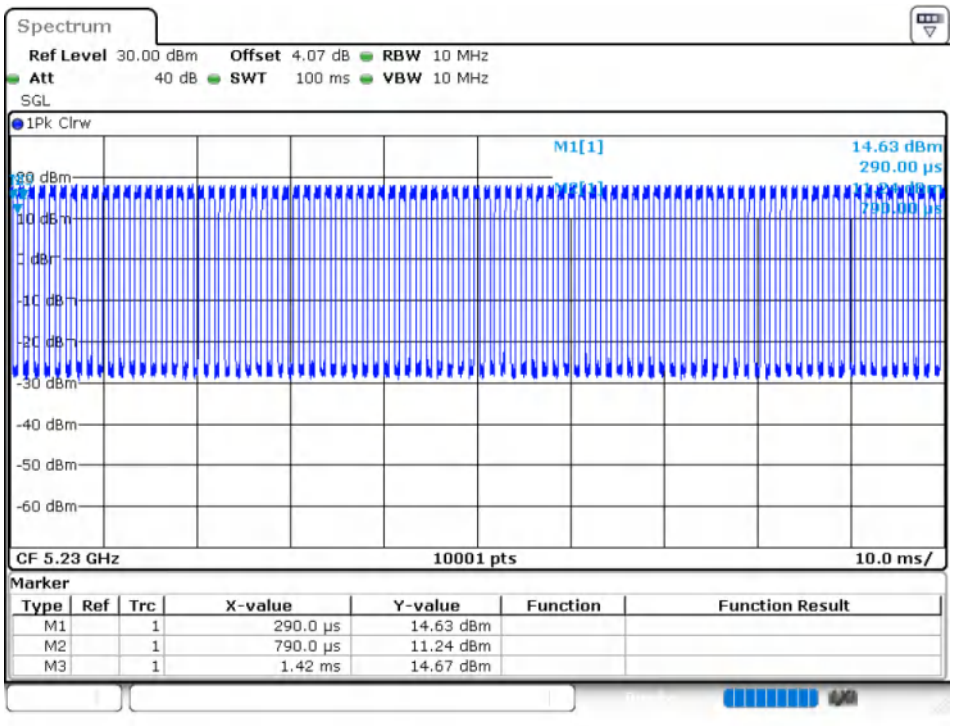
Duty Cycle NVNT ac40 5230MHz Ant1



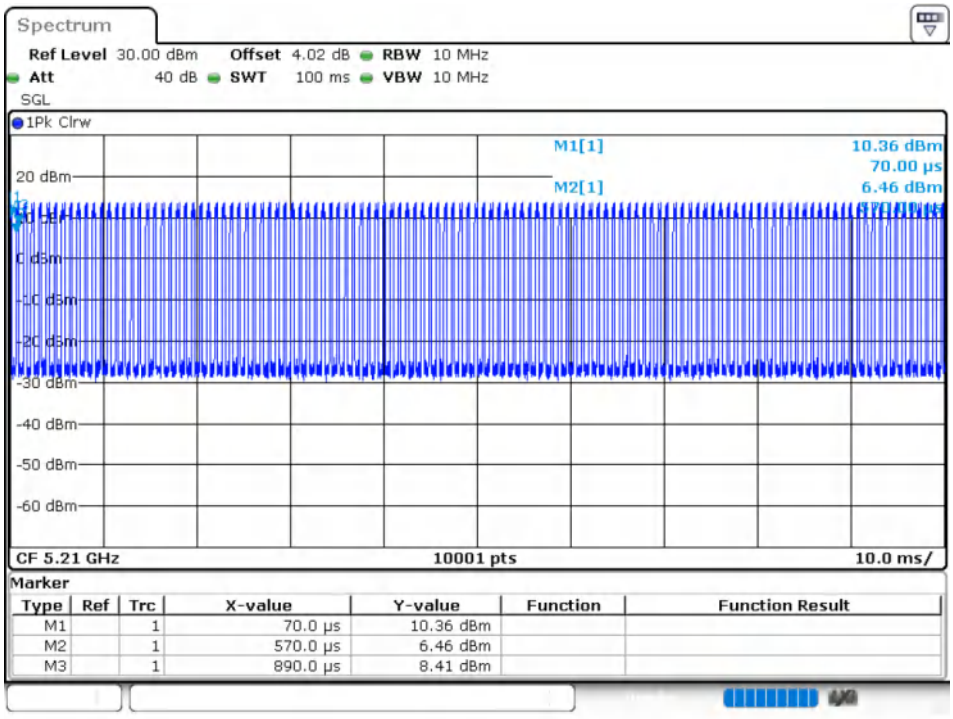
Duty Cycle NVNT ac40 5190MHz Ant2



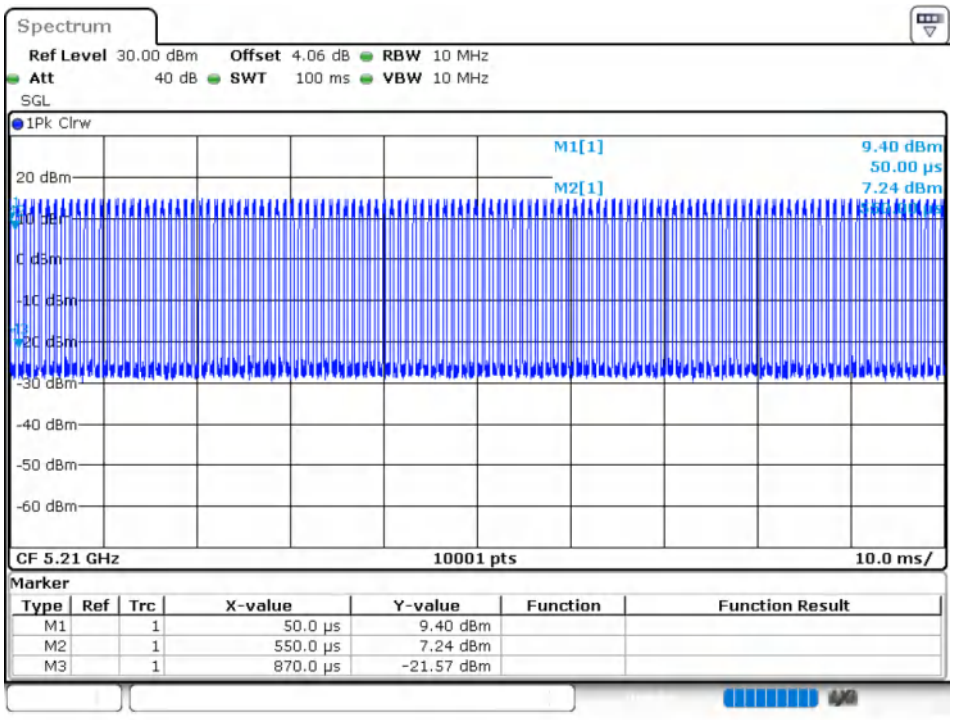
Duty Cycle NVNT ac40 5230MHz Ant2



Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant2



Maximum Conducted Output Power

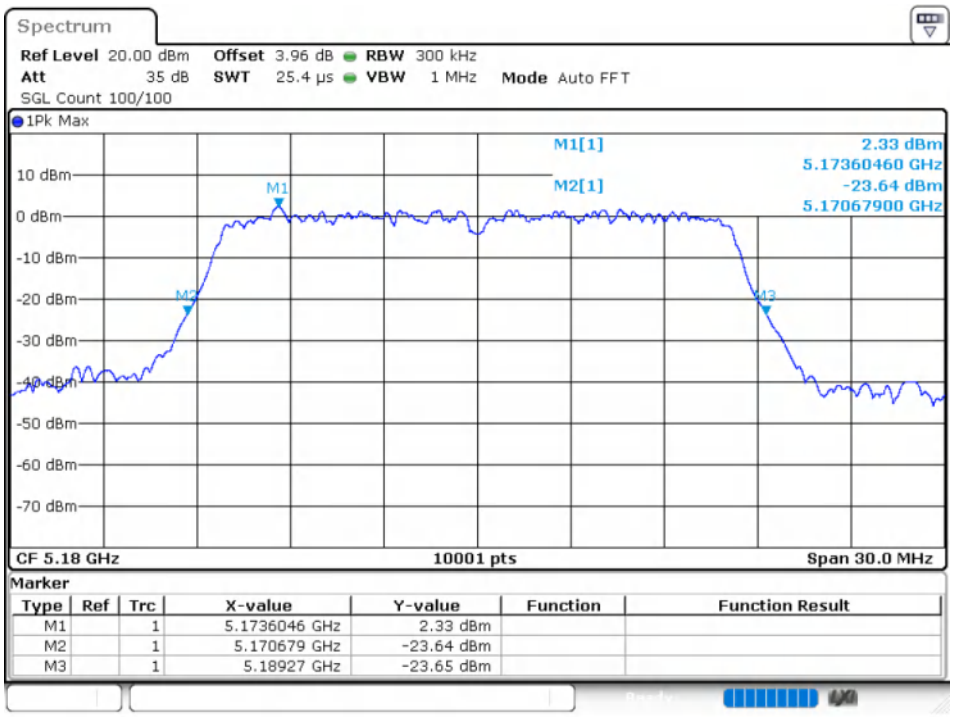
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.94	24	Pass
NVNT	a	5200	Ant1	12.98	24	Pass
NVNT	a	5240	Ant1	13.05	24	Pass
NVNT	a	5180	Ant2	13.89	24	Pass
NVNT	a	5200	Ant2	14.06	24	Pass
NVNT	a	5240	Ant2	14.23	24	Pass
NVNT	n20	5180	Ant1	12.93	23.44	Pass
NVNT	n20	5200	Ant1	12.93	23.44	Pass
NVNT	n20	5240	Ant1	13.14	23.44	Pass
NVNT	n20	5180	Ant2	13.88	23.44	Pass
NVNT	n20	5200	Ant2	14.01	23.44	Pass
NVNT	n20	5240	Ant2	14.24	23.44	Pass
NVNT	n40	5190	Ant1	12.71	23.44	Pass
NVNT	n40	5230	Ant1	12.76	23.44	Pass
NVNT	n40	5190	Ant2	13.69	23.44	Pass
NVNT	n40	5230	Ant2	13.87	23.44	Pass
NVNT	ac20	5180	Ant1	12.83	23.44	Pass
NVNT	ac20	5200	Ant1	12.92	23.44	Pass
NVNT	ac20	5240	Ant1	13.08	23.44	Pass
NVNT	ac20	5180	Ant2	13.91	23.44	Pass
NVNT	ac20	5200	Ant2	14.03	23.44	Pass
NVNT	ac20	5240	Ant2	14.22	23.44	Pass
NVNT	ac40	5190	Ant1	12.7	23.44	Pass
NVNT	ac40	5230	Ant1	12.7	23.44	Pass
NVNT	ac40	5190	Ant2	13.73	23.44	Pass
NVNT	ac40	5230	Ant2	13.9	23.44	Pass
NVNT	ac80	5210	Ant1	12.73	23.44	Pass
NVNT	ac80	5210	Ant2	13.69	23.44	Pass

Note:The test has added Duty Factor.

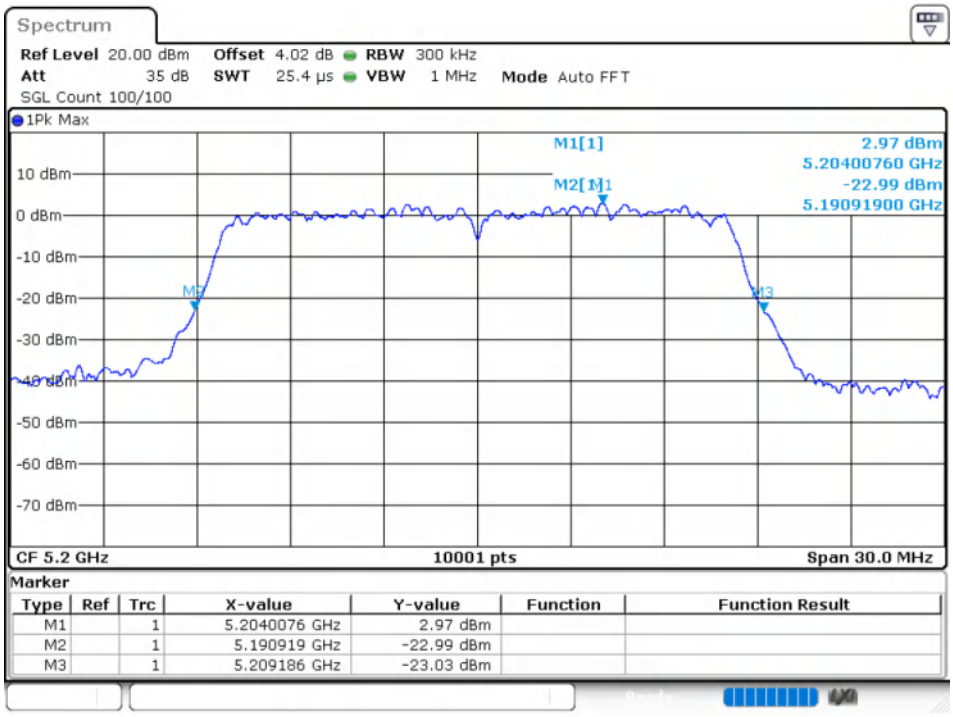
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	18.591	Pass
NVNT	a	5200	Ant1	18.267	Pass
NVNT	a	5240	Ant1	18.321	Pass
NVNT	a	5180	Ant2	18.324	Pass
NVNT	a	5200	Ant2	18.747	Pass
NVNT	a	5240	Ant2	18.33	Pass
NVNT	n20	5180	Ant1	19.272	Pass
NVNT	n20	5200	Ant1	19.368	Pass
NVNT	n20	5240	Ant1	19.287	Pass
NVNT	n20	5180	Ant2	19.509	Pass
NVNT	n20	5200	Ant2	19.275	Pass
NVNT	n20	5240	Ant2	19.26	Pass
NVNT	n40	5190	Ant1	41.634	Pass
NVNT	n40	5230	Ant1	41.358	Pass
NVNT	n40	5190	Ant2	41.484	Pass
NVNT	n40	5230	Ant2	41.04	Pass
NVNT	ac20	5180	Ant1	19.698	Pass
NVNT	ac20	5200	Ant1	19.629	Pass
NVNT	ac20	5240	Ant1	19.596	Pass
NVNT	ac20	5180	Ant2	19.614	Pass
NVNT	ac20	5200	Ant2	19.326	Pass
NVNT	ac20	5240	Ant2	19.311	Pass
NVNT	ac40	5190	Ant1	41.652	Pass
NVNT	ac40	5230	Ant1	41.322	Pass
NVNT	ac40	5190	Ant2	41.598	Pass
NVNT	ac40	5230	Ant2	41.346	Pass
NVNT	ac80	5210	Ant1	80.892	Pass
NVNT	ac80	5210	Ant2	81.12	Pass

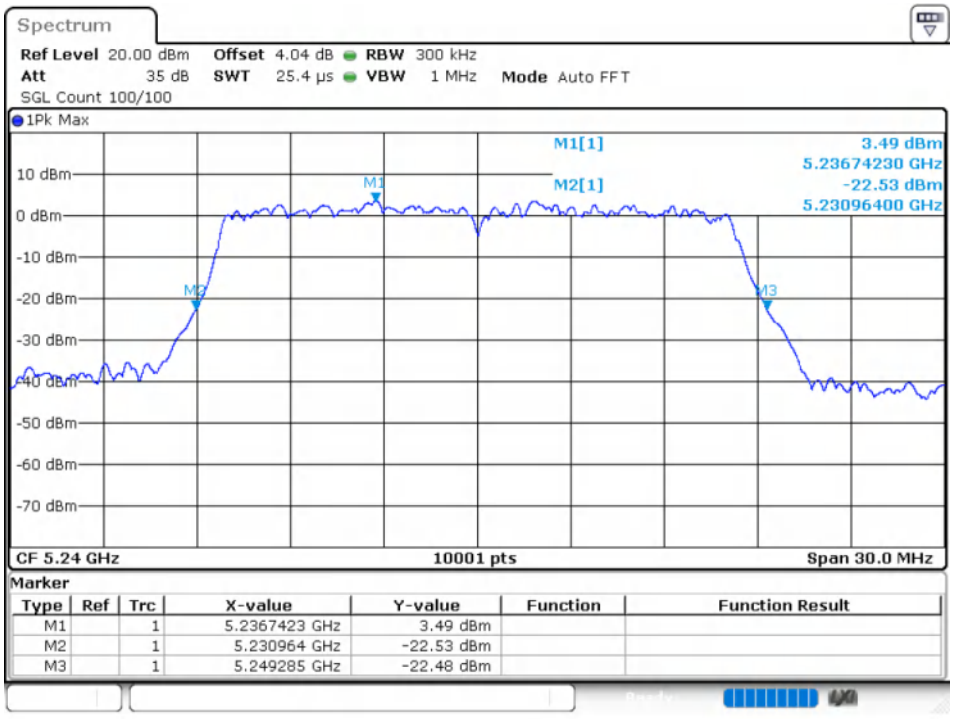
Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant1



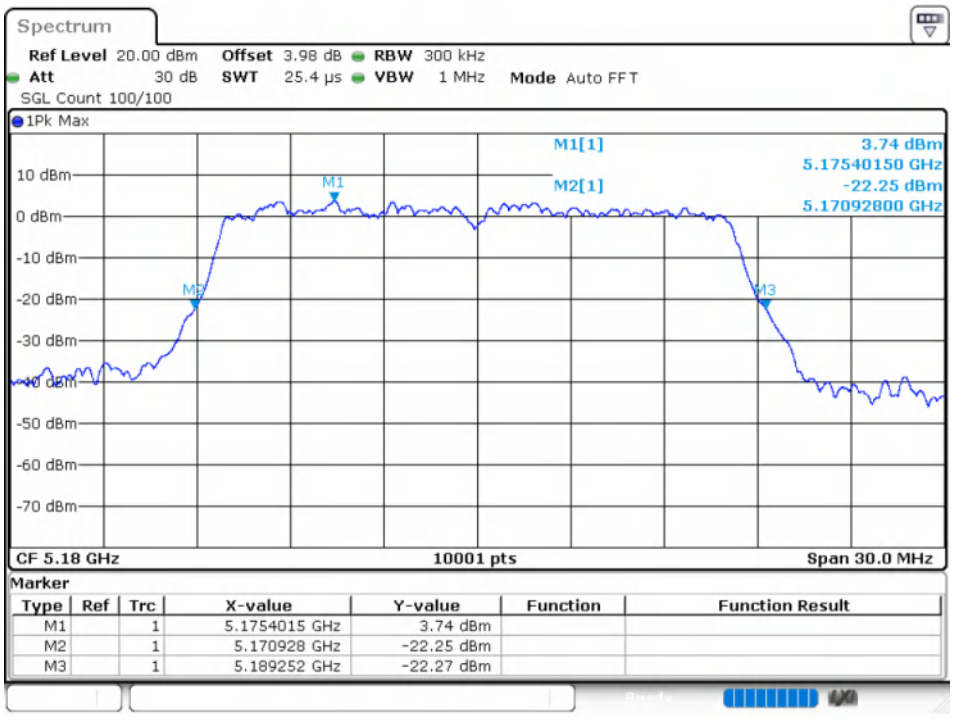
-26dB Bandwidth NVNT a 5200MHz Ant1



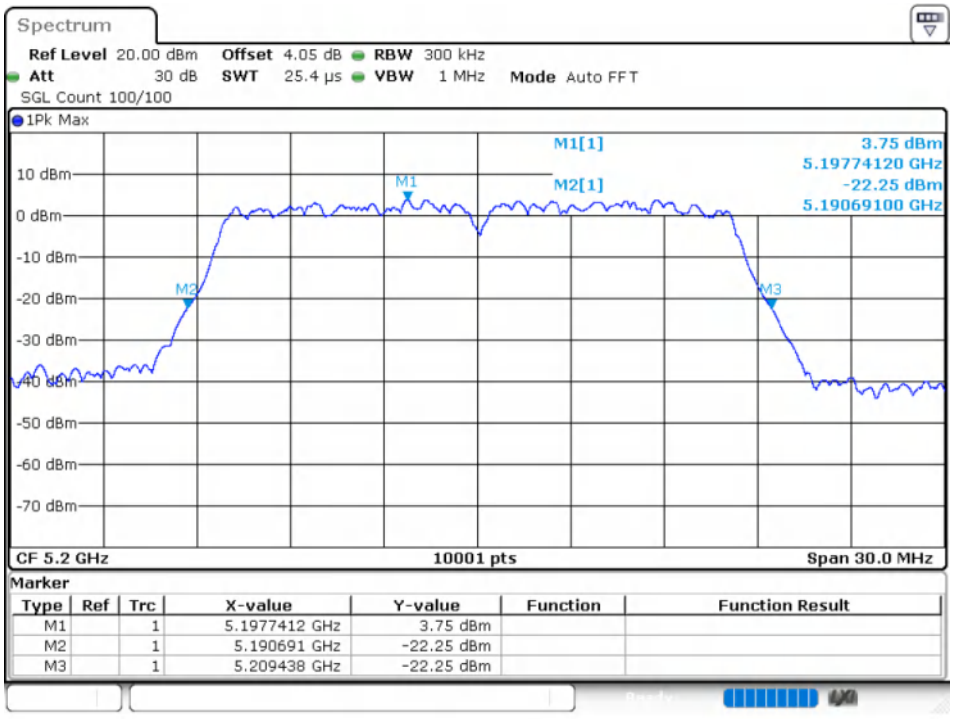
-26dB Bandwidth NVNT a 5240MHz Ant1



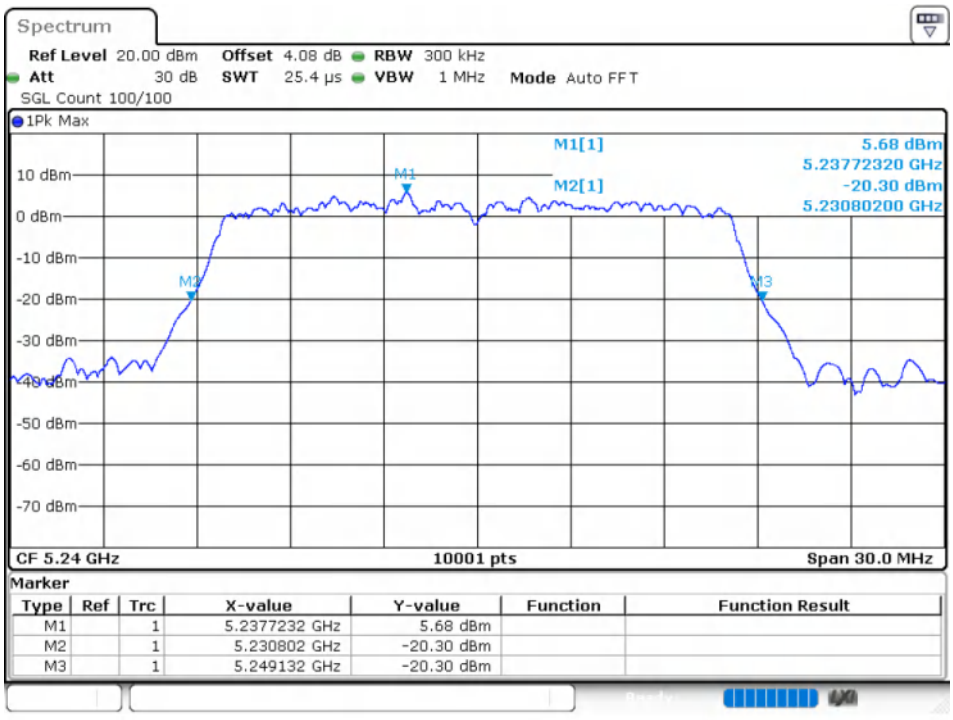
-26dB Bandwidth NVNT a 5180MHz Ant2



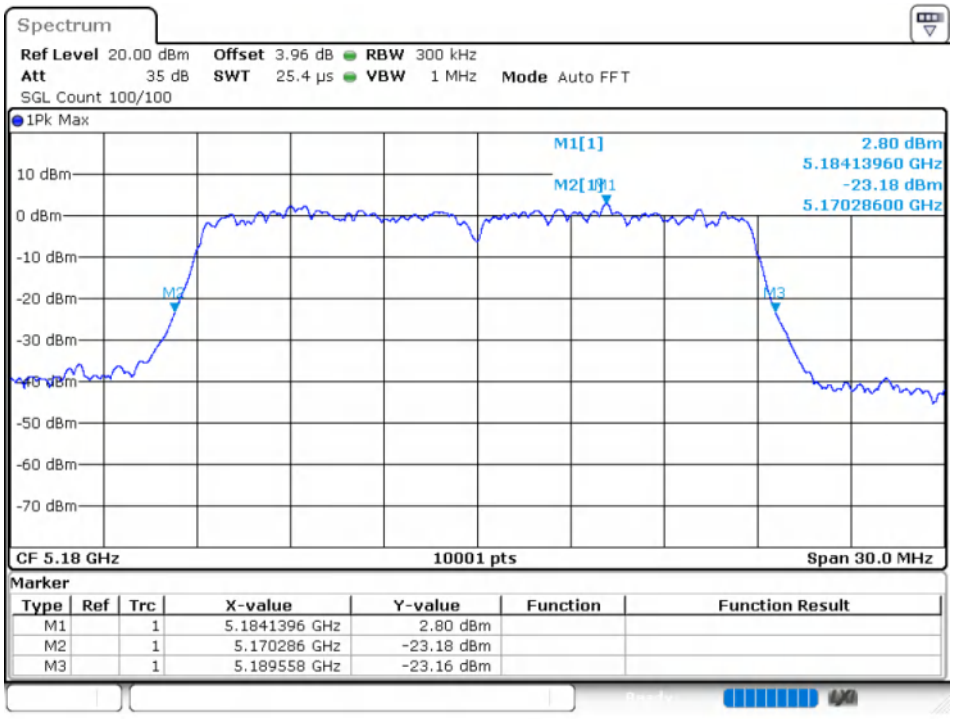
-26dB Bandwidth NVNT a 5200MHz Ant2



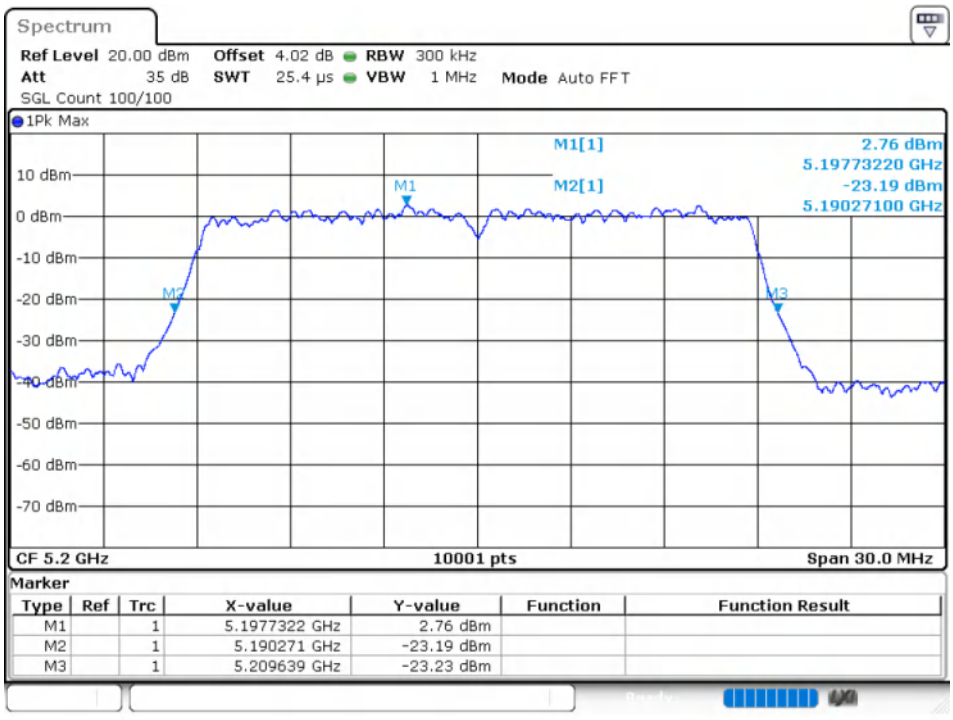
-26dB Bandwidth NVNT a 5240MHz Ant2



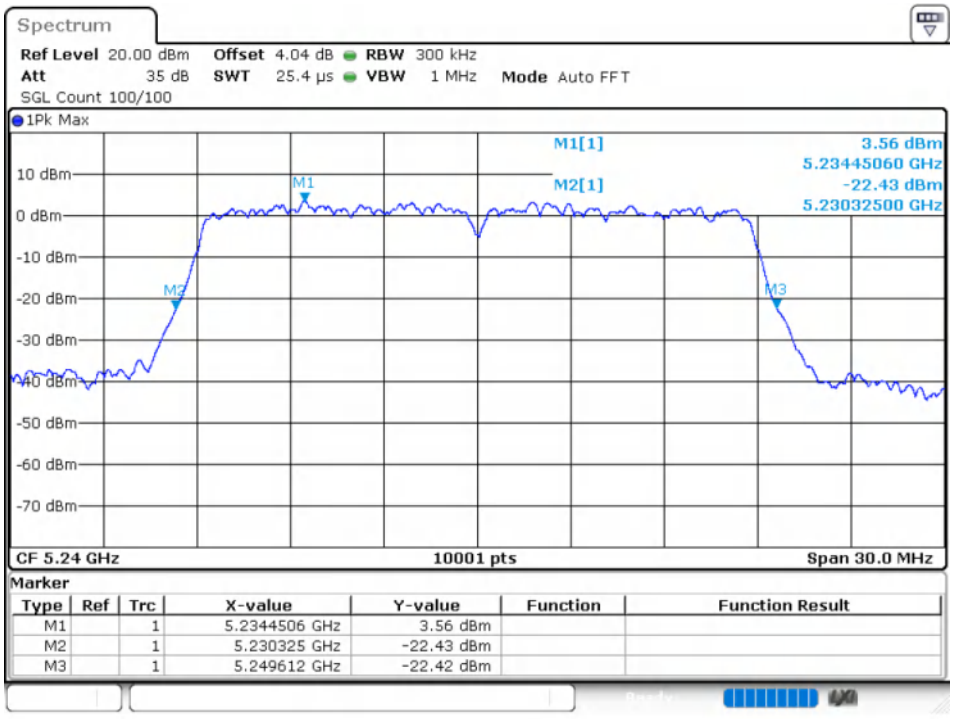
-26dB Bandwidth NVNT n20 5180MHz Ant1



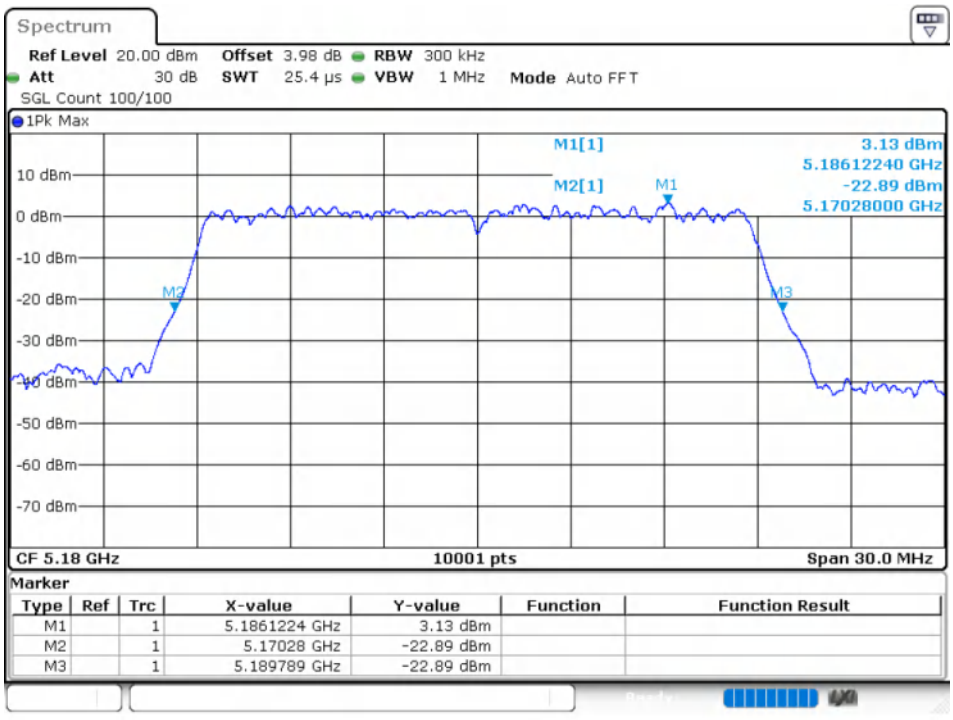
-26dB Bandwidth NVNT n20 5200MHz Ant1



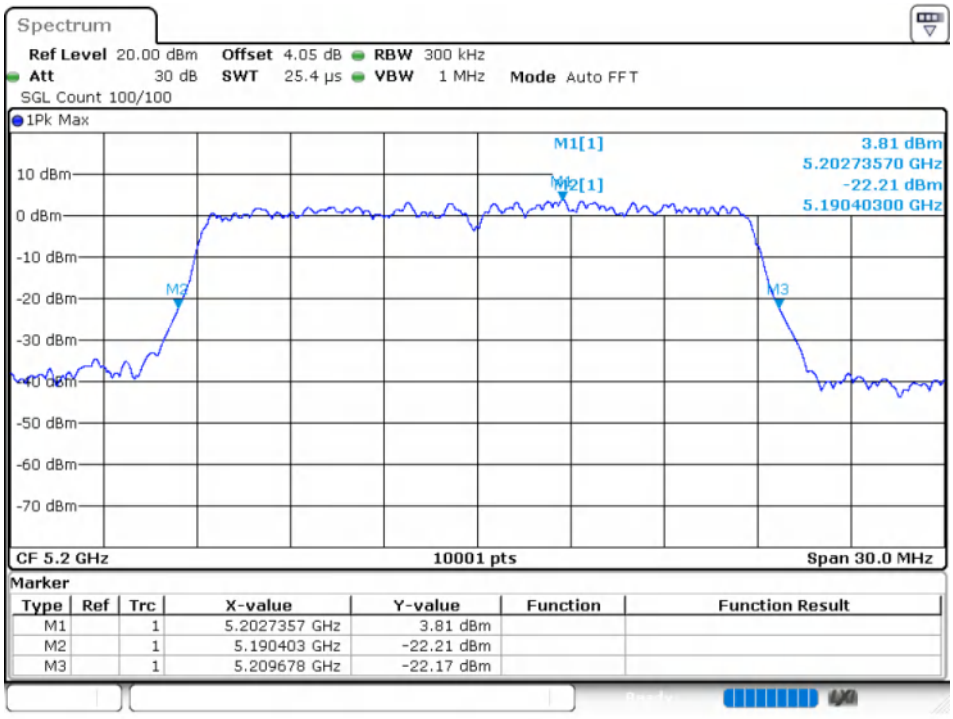
-26dB Bandwidth NVNT n20 5240MHz Ant1



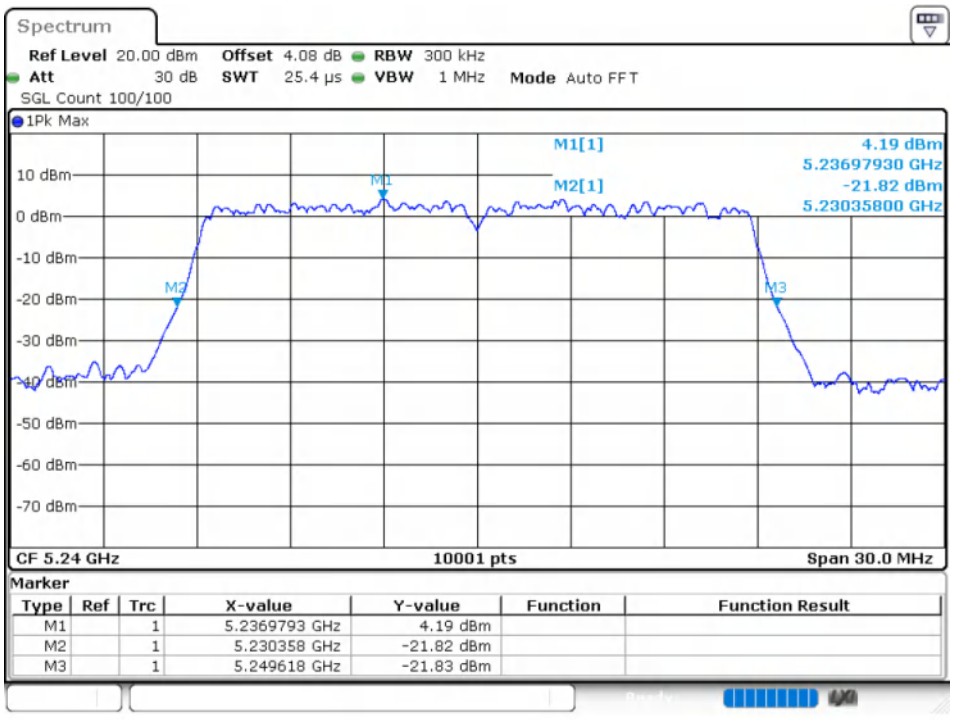
-26dB Bandwidth NVNT n20 5180MHz Ant2



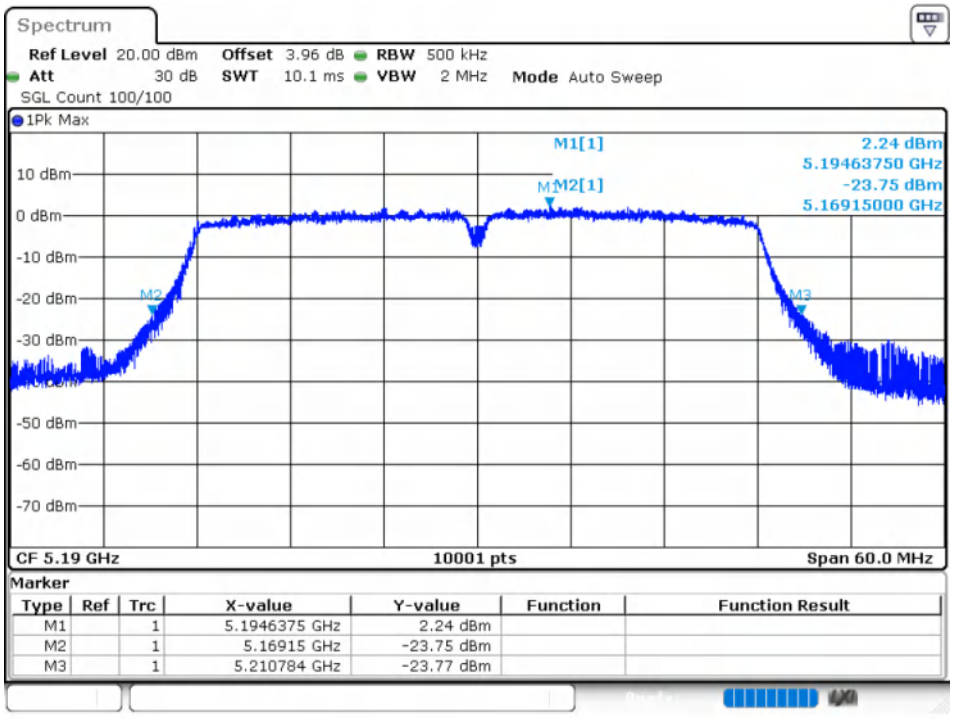
-26dB Bandwidth NVNT n20 5200MHz Ant2



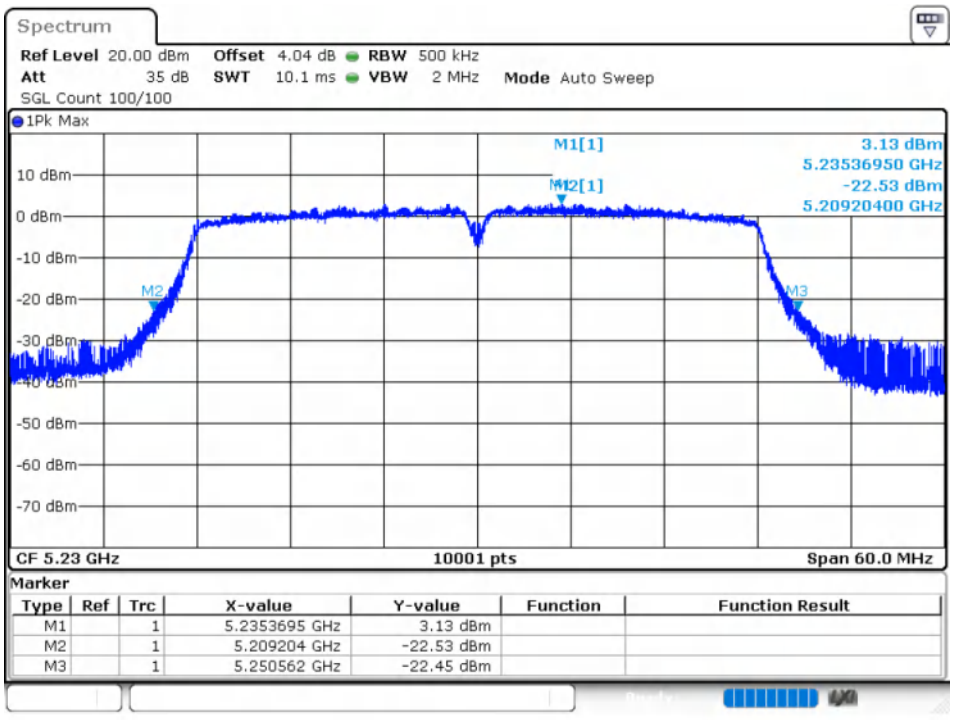
-26dB Bandwidth NVNT n20 5240MHz Ant2



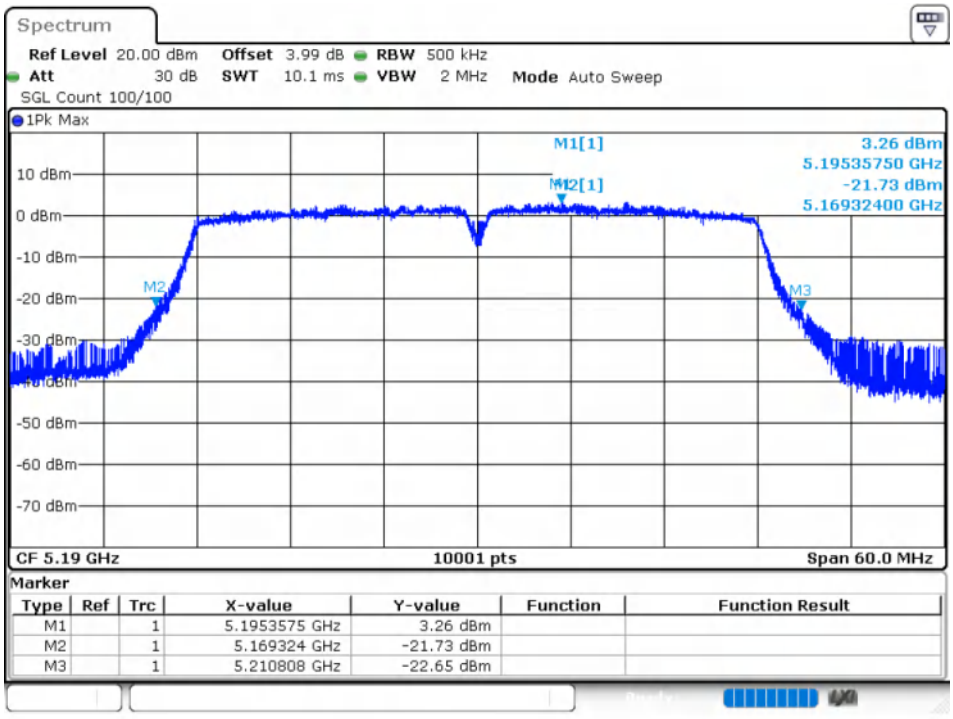
-26dB Bandwidth NVNT n40 5190MHz Ant1



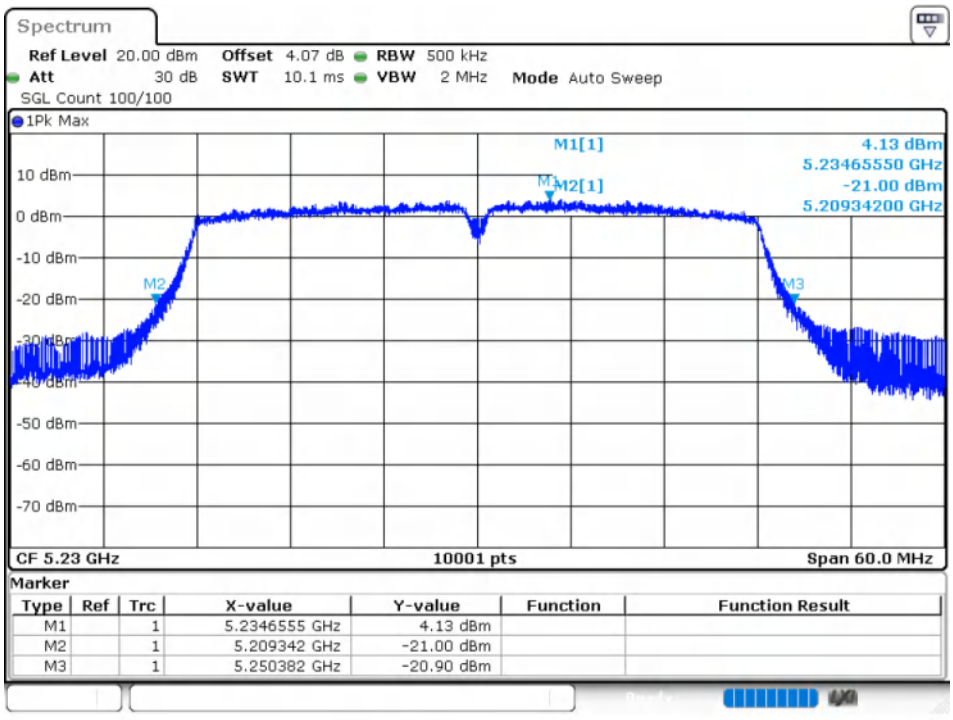
-26dB Bandwidth NVNT n40 5230MHz Ant1



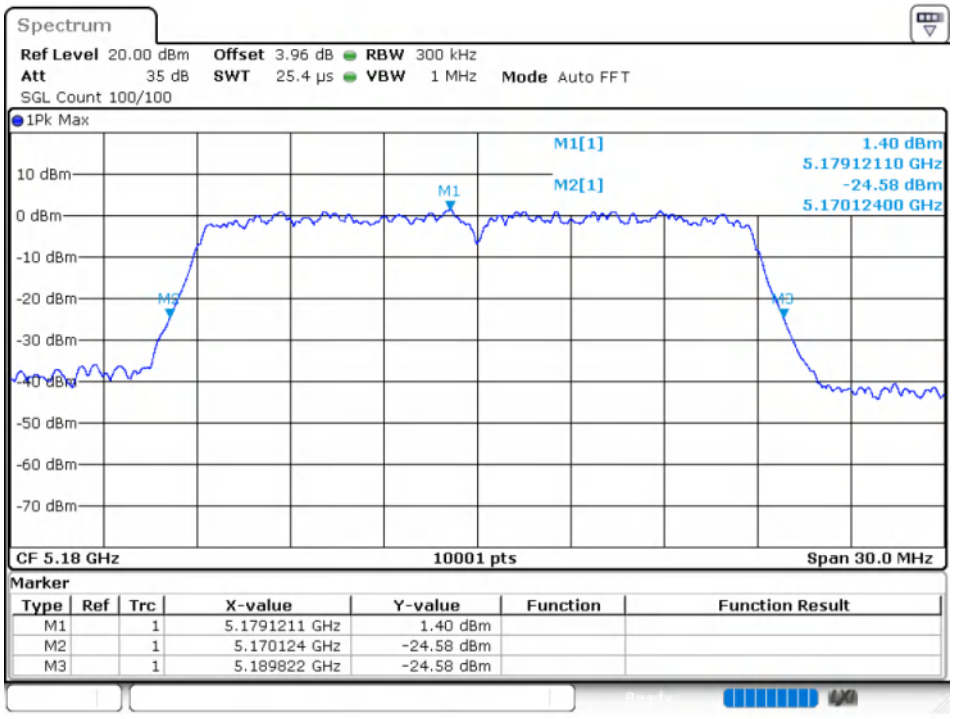
-26dB Bandwidth NVNT n40 5190MHz Ant2



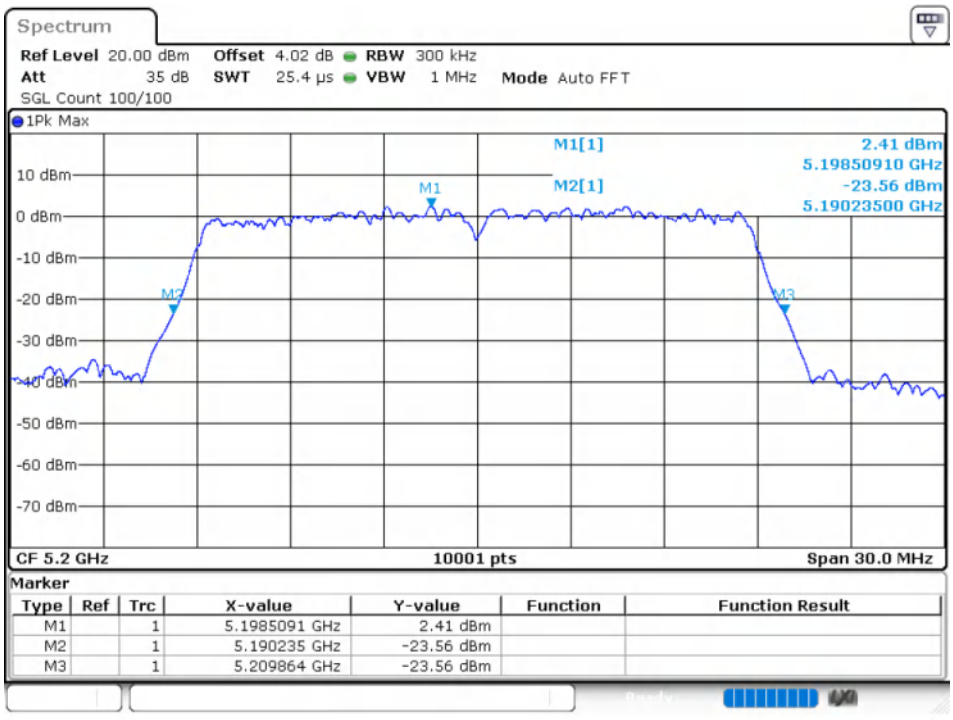
-26dB Bandwidth NVNT n40 5230MHz Ant2



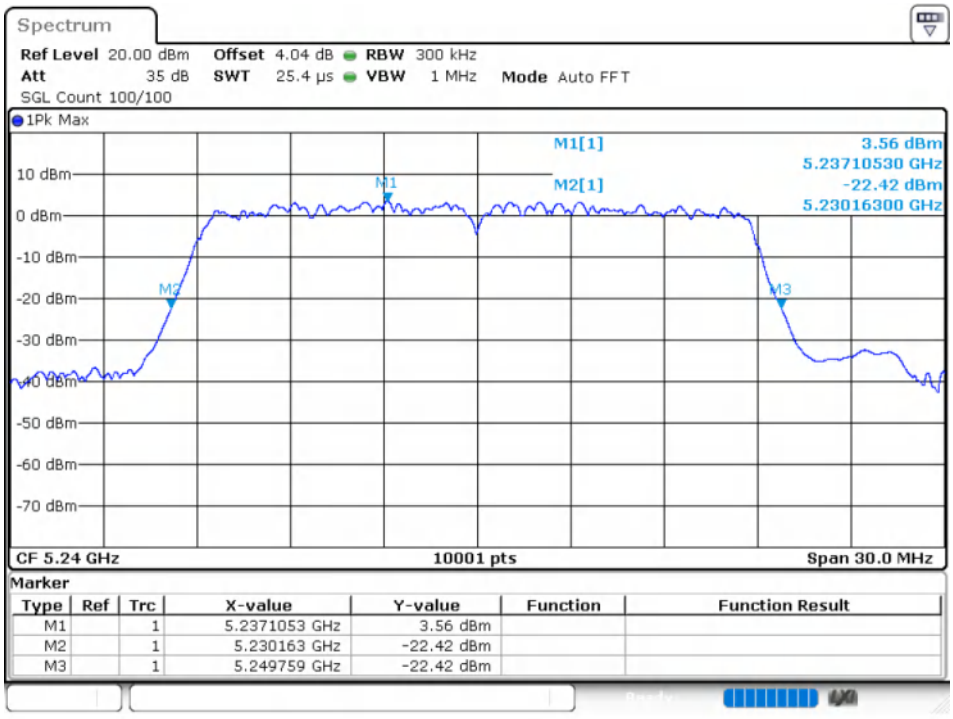
-26dB Bandwidth NVNT ac20 5180MHz Ant1



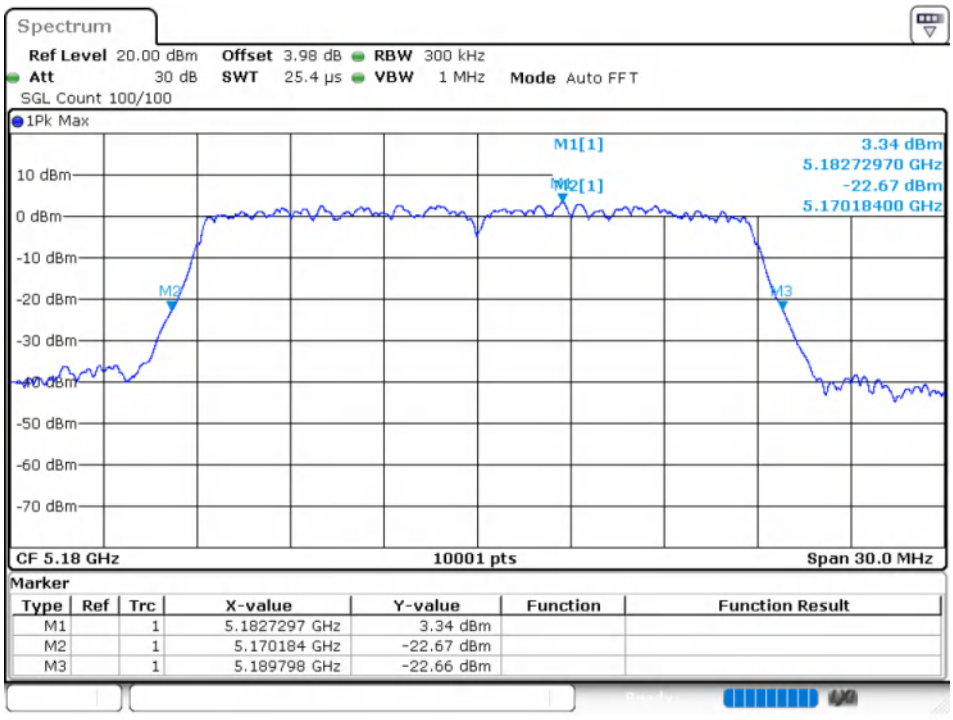
-26dB Bandwidth NVNT ac20 5200MHz Ant1



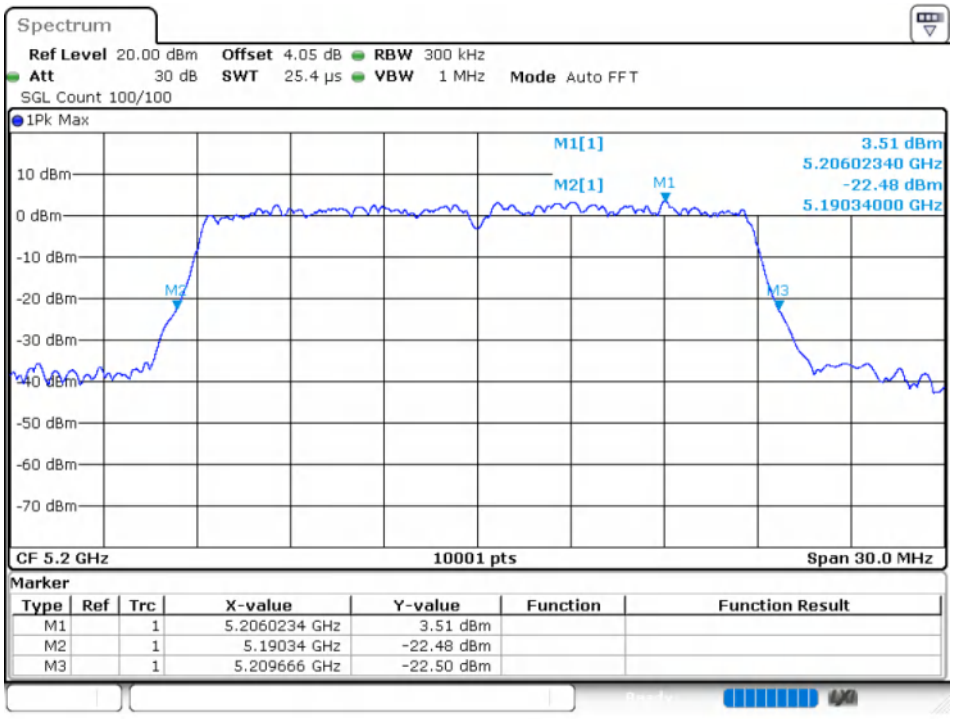
-26dB Bandwidth NVNT ac20 5240MHz Ant1



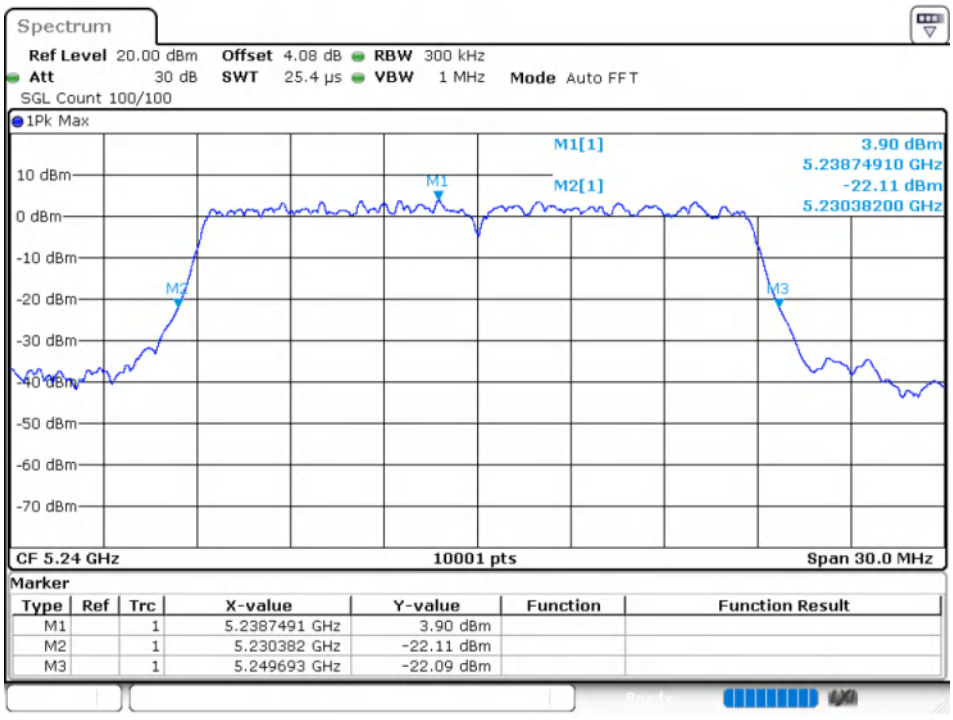
-26dB Bandwidth NVNT ac20 5180MHz Ant2



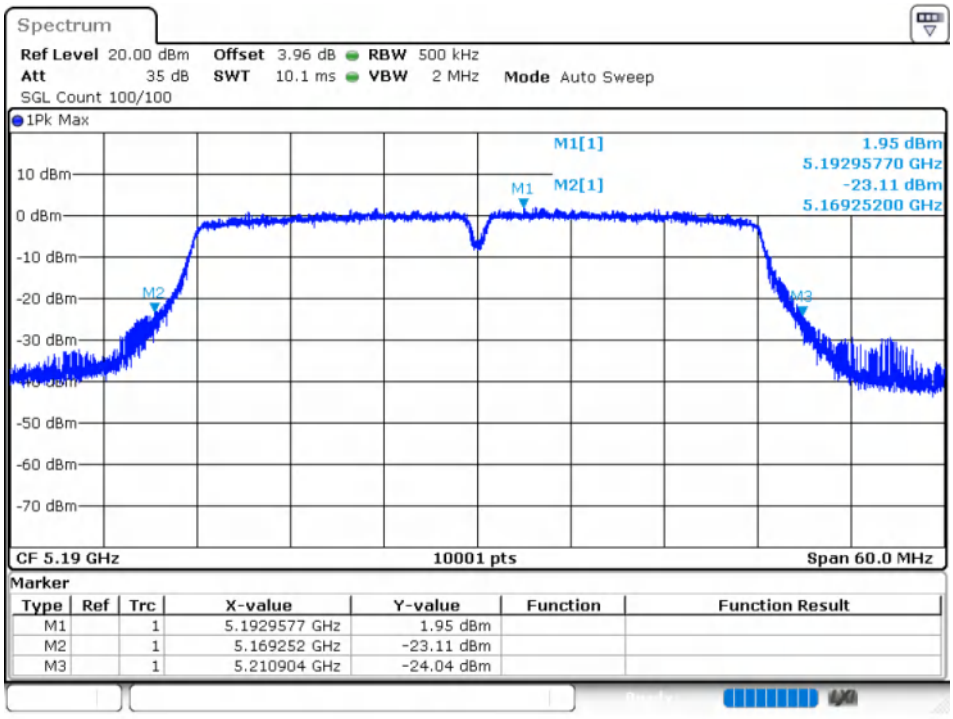
-26dB Bandwidth NVNT ac20 5200MHz Ant2



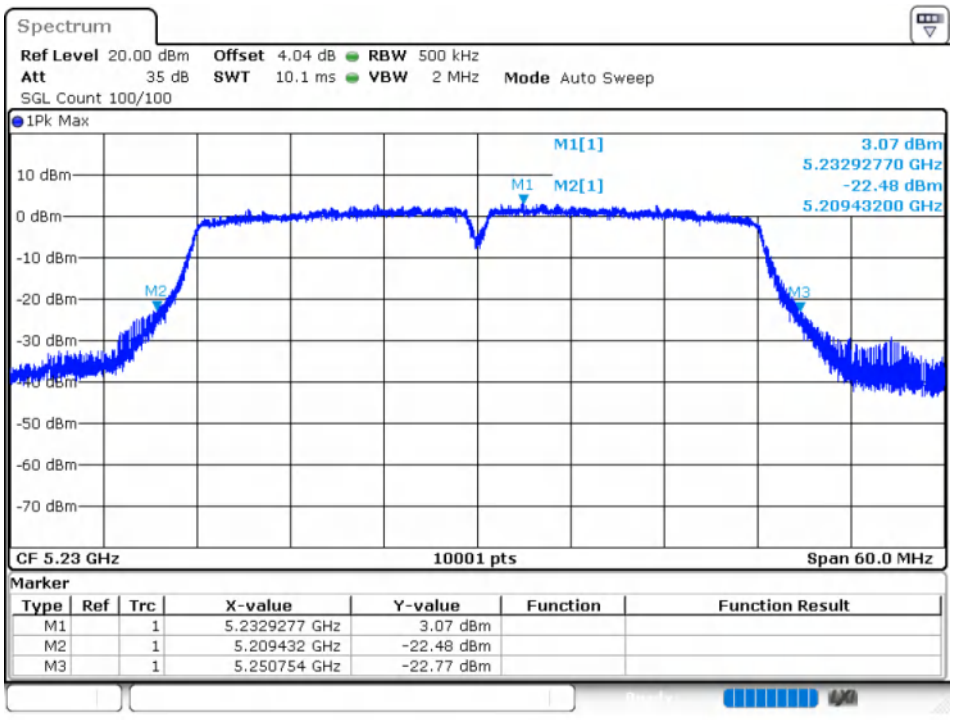
-26dB Bandwidth NVNT ac20 5240MHz Ant2



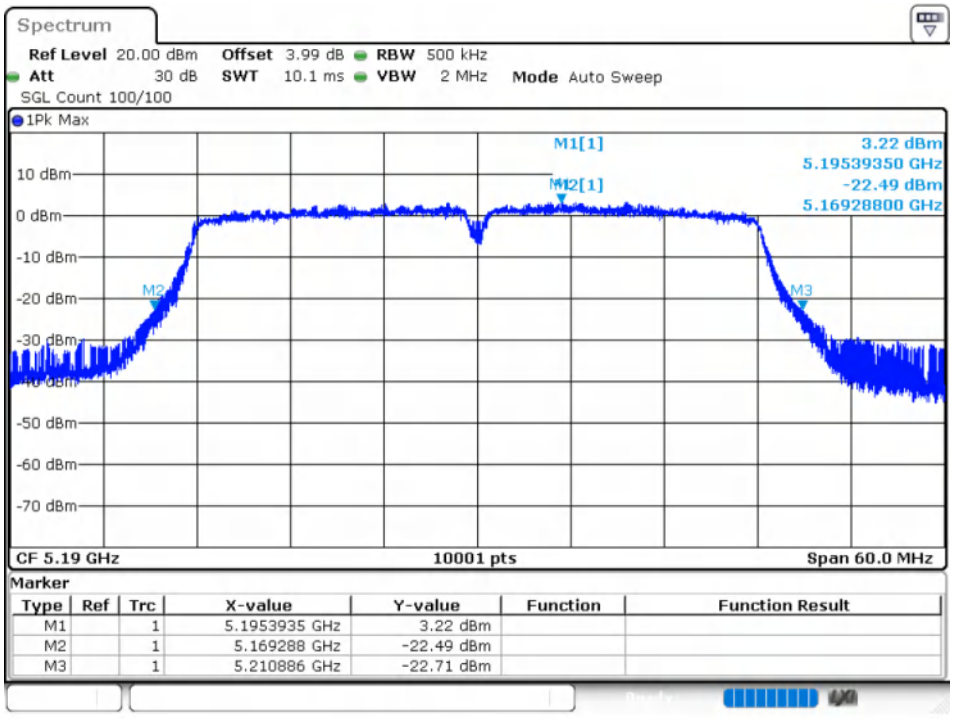
-26dB Bandwidth NVNT ac40 5190MHz Ant1



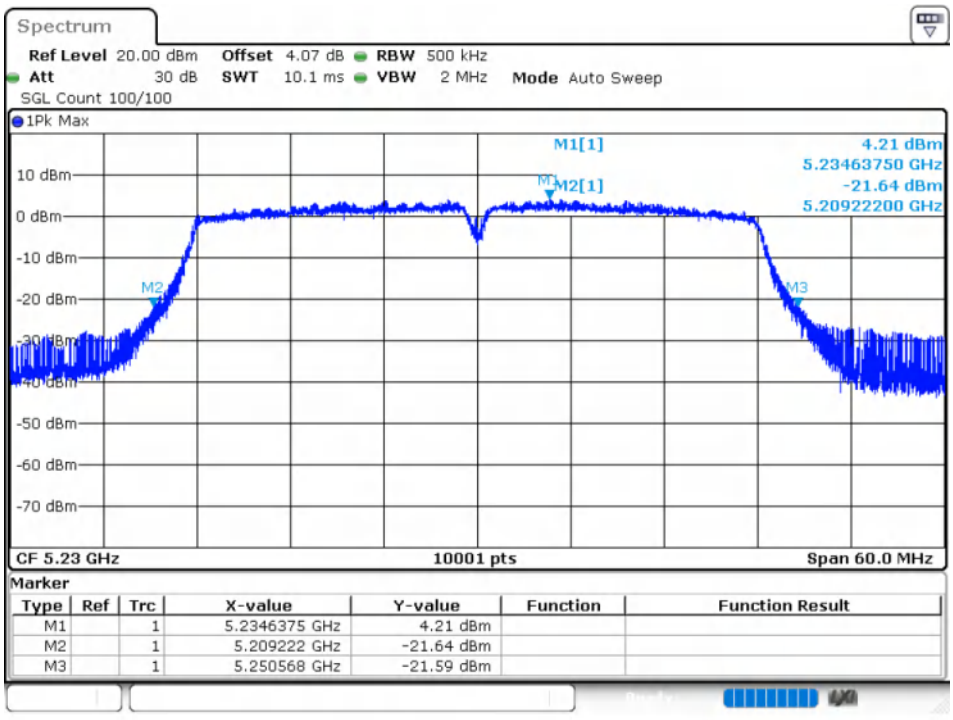
-26dB Bandwidth NVNT ac40 5230MHz Ant1



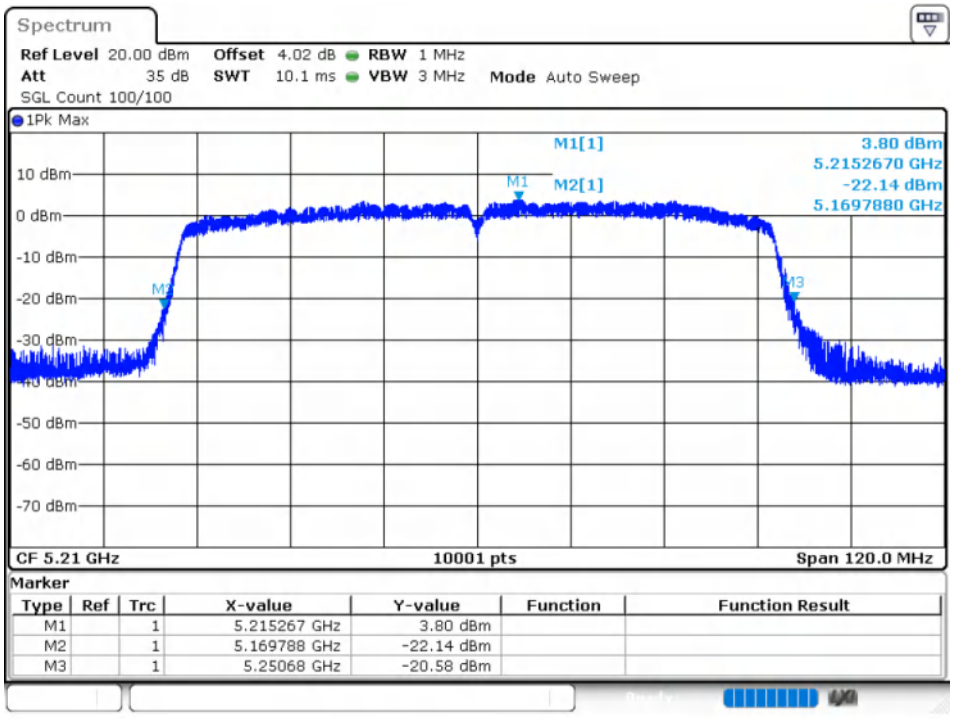
-26dB Bandwidth NVNT ac40 5190MHz Ant2



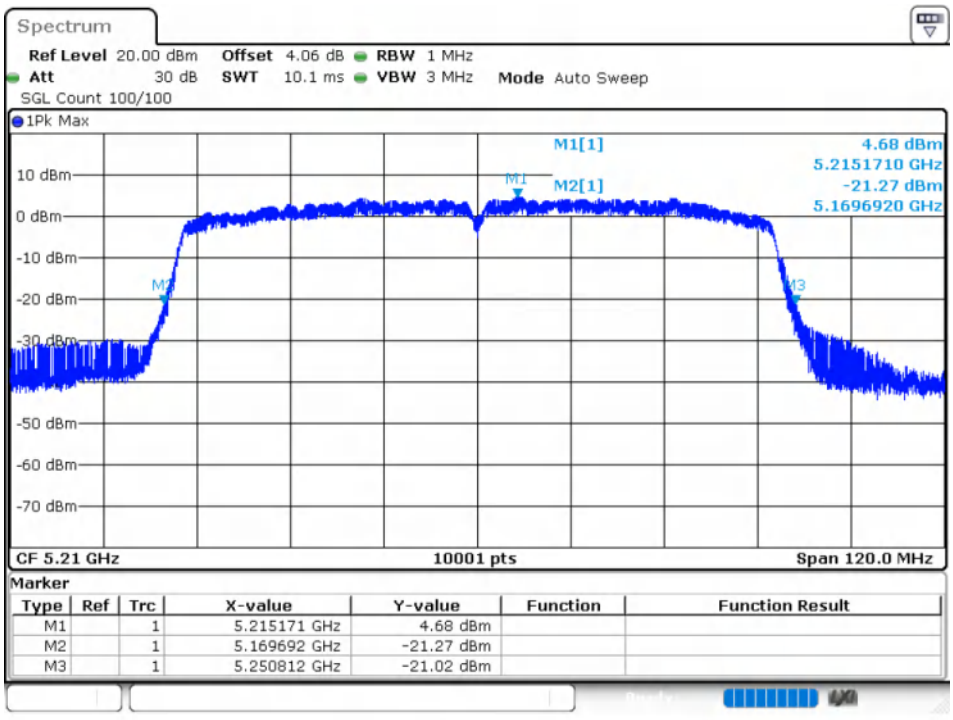
-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant1



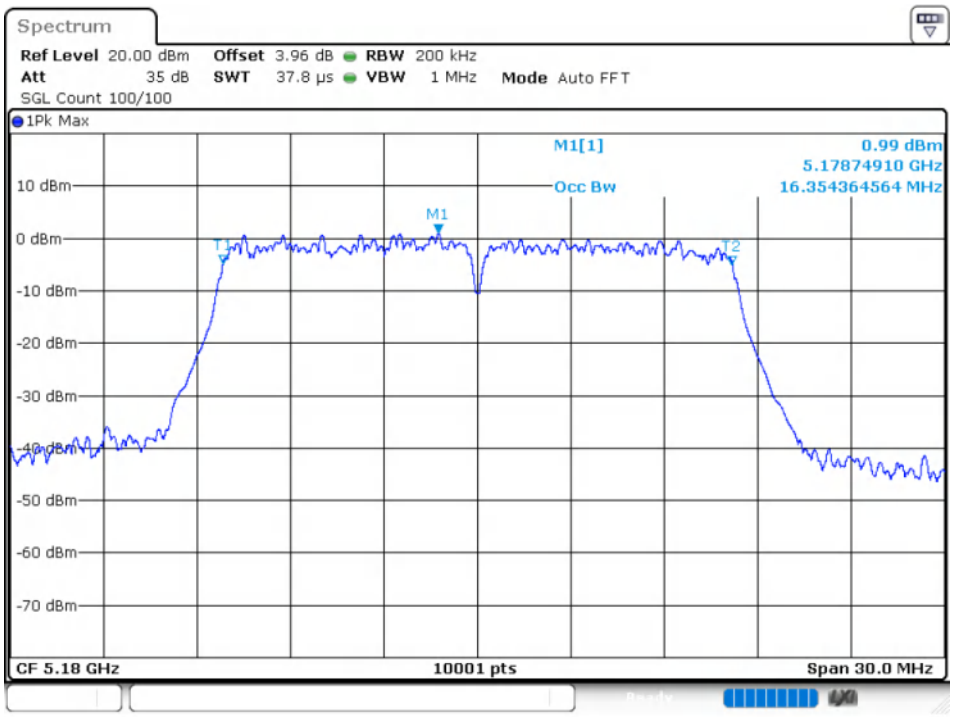
-26dB Bandwidth NVNT ac80 5210MHz Ant2



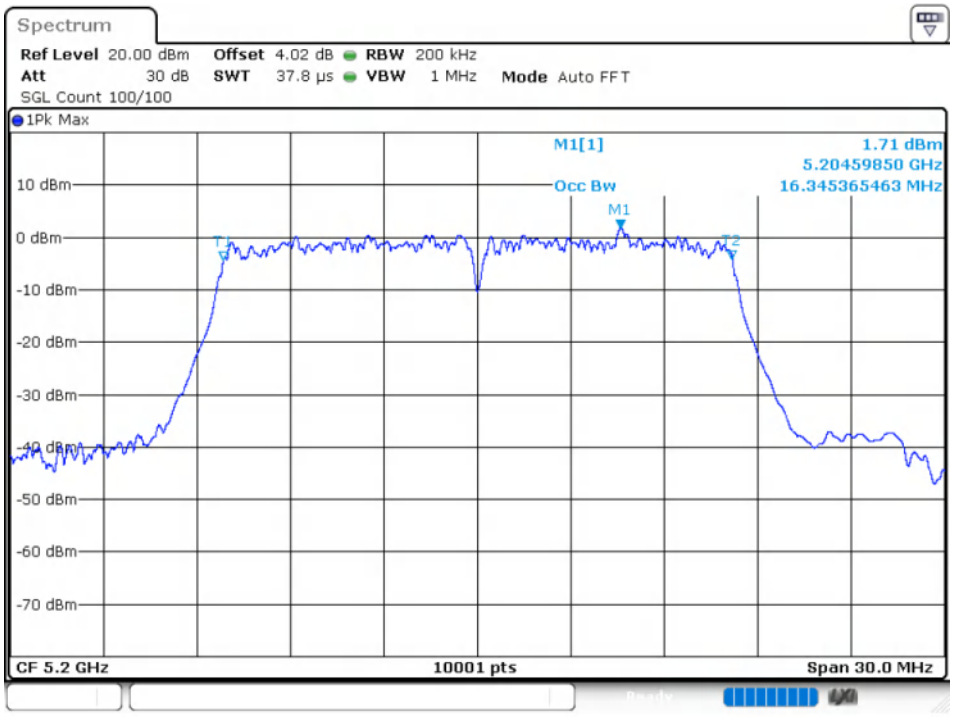
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.354
NVNT	a	5200	Ant1	16.345
NVNT	a	5240	Ant1	16.345
NVNT	a	5180	Ant2	16.345
NVNT	a	5200	Ant2	16.324
NVNT	a	5240	Ant2	16.333
NVNT	n20	5180	Ant1	17.53
NVNT	n20	5200	Ant1	17.524
NVNT	n20	5240	Ant1	17.485
NVNT	n20	5180	Ant2	17.548
NVNT	n20	5200	Ant2	17.536
NVNT	n20	5240	Ant2	17.533
NVNT	n40	5190	Ant1	36.134
NVNT	n40	5230	Ant1	36.104
NVNT	n40	5190	Ant2	36.128
NVNT	n40	5230	Ant2	36.08
NVNT	ac20	5180	Ant1	17.551
NVNT	ac20	5200	Ant1	17.515
NVNT	ac20	5240	Ant1	17.527
NVNT	ac20	5180	Ant2	17.563
NVNT	ac20	5200	Ant2	17.506
NVNT	ac20	5240	Ant2	17.533
NVNT	ac40	5190	Ant1	36.152
NVNT	ac40	5230	Ant1	36.086
NVNT	ac40	5190	Ant2	36.14
NVNT	ac40	5230	Ant2	36.074
NVNT	ac80	5210	Ant1	74.633
NVNT	ac80	5210	Ant2	74.585

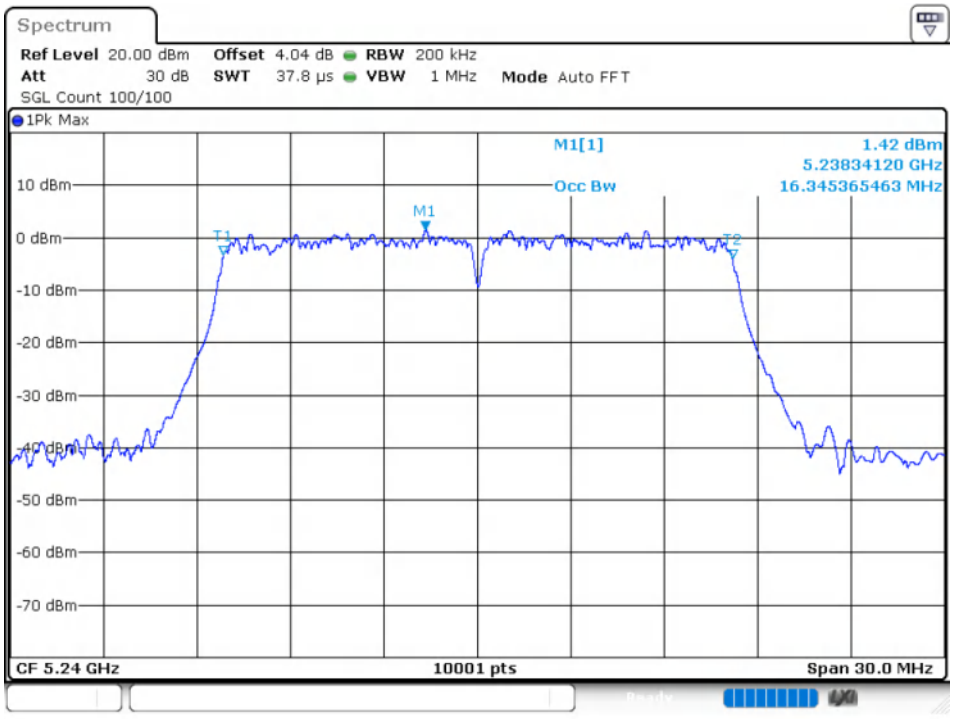
Test Graphs
OBW NVNT a 5180MHz Ant1



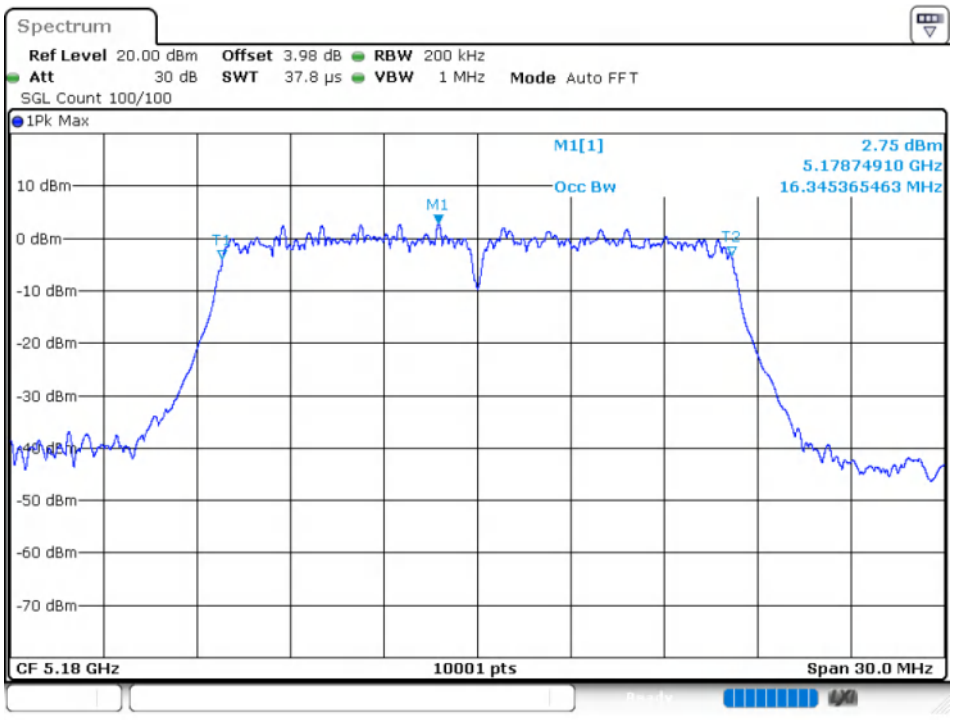
OBW NVNT a 5200MHz Ant1



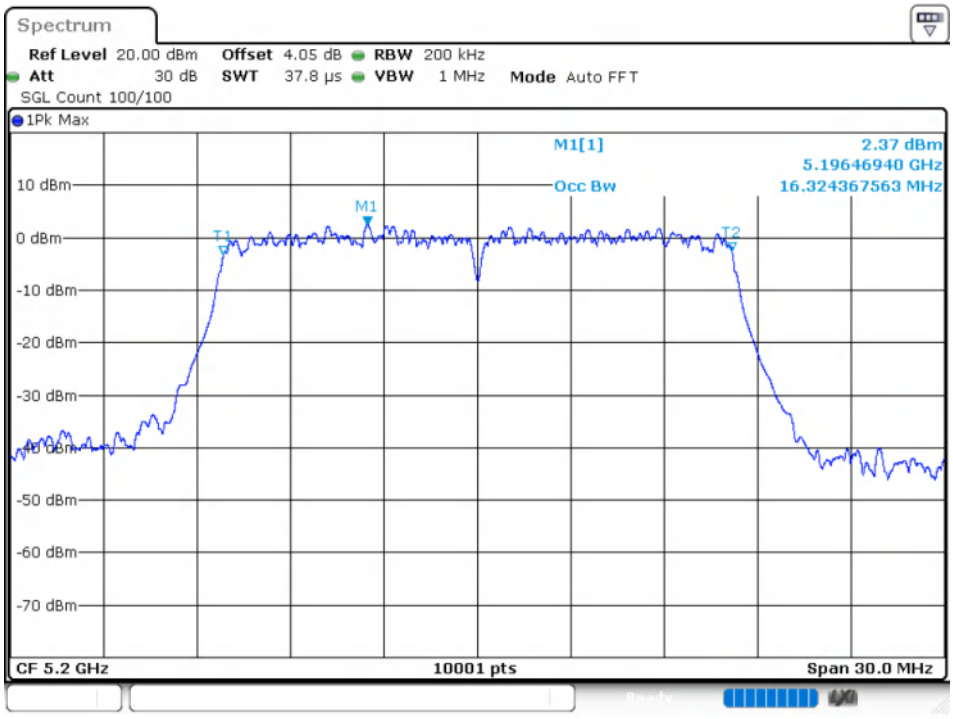
OBW NVNT a 5240MHz Ant1



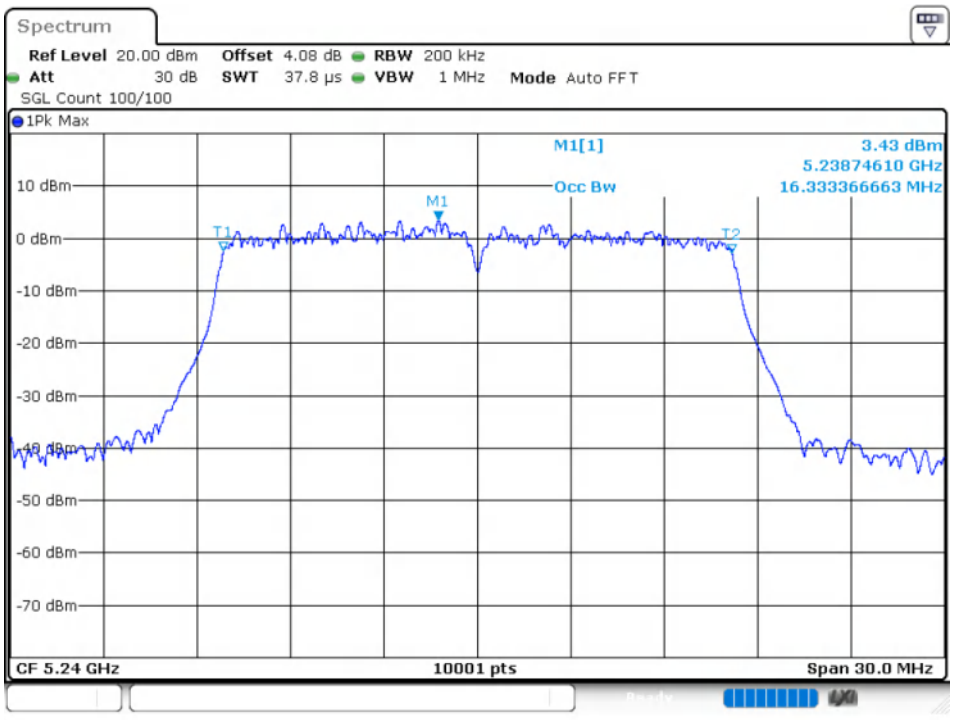
OBW NVNT a 5180MHz Ant2



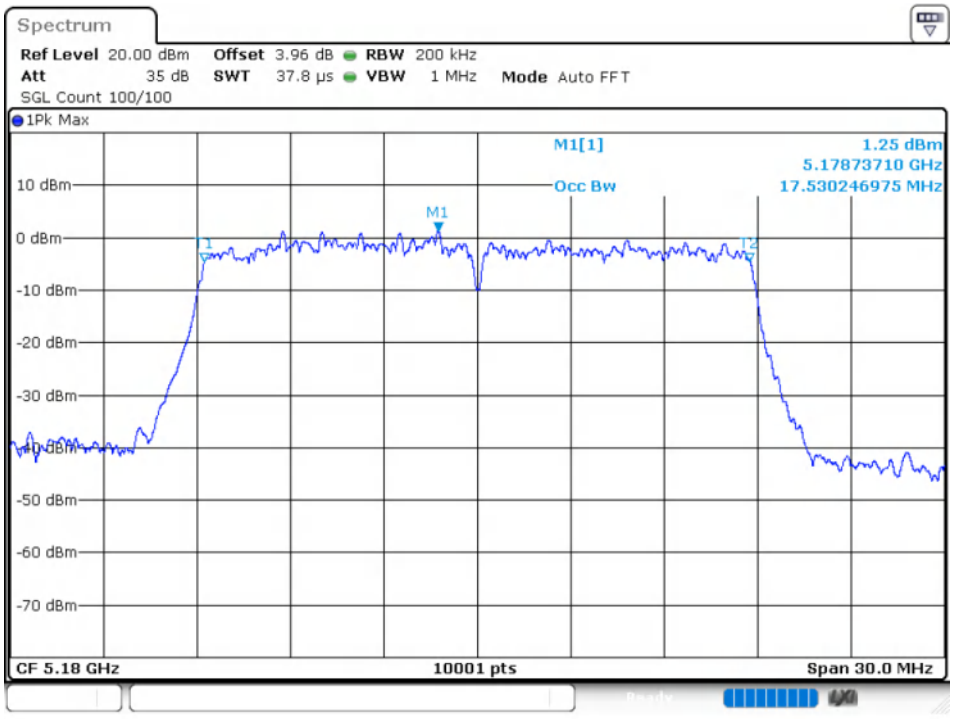
OBW NVNT a 5200MHz Ant2



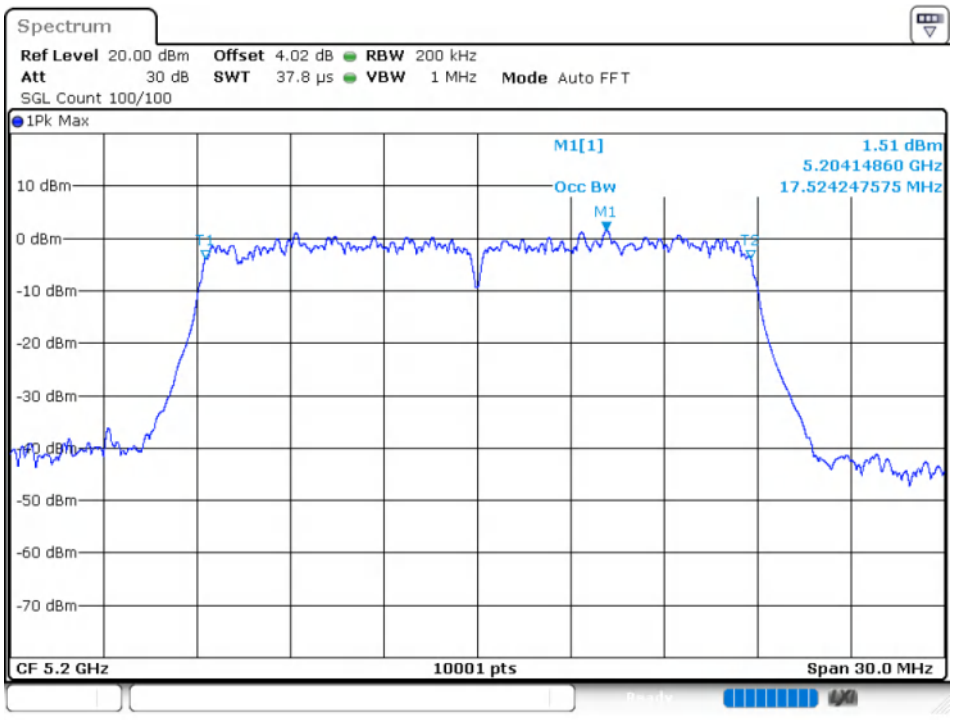
OBW NVNT a 5240MHz Ant2



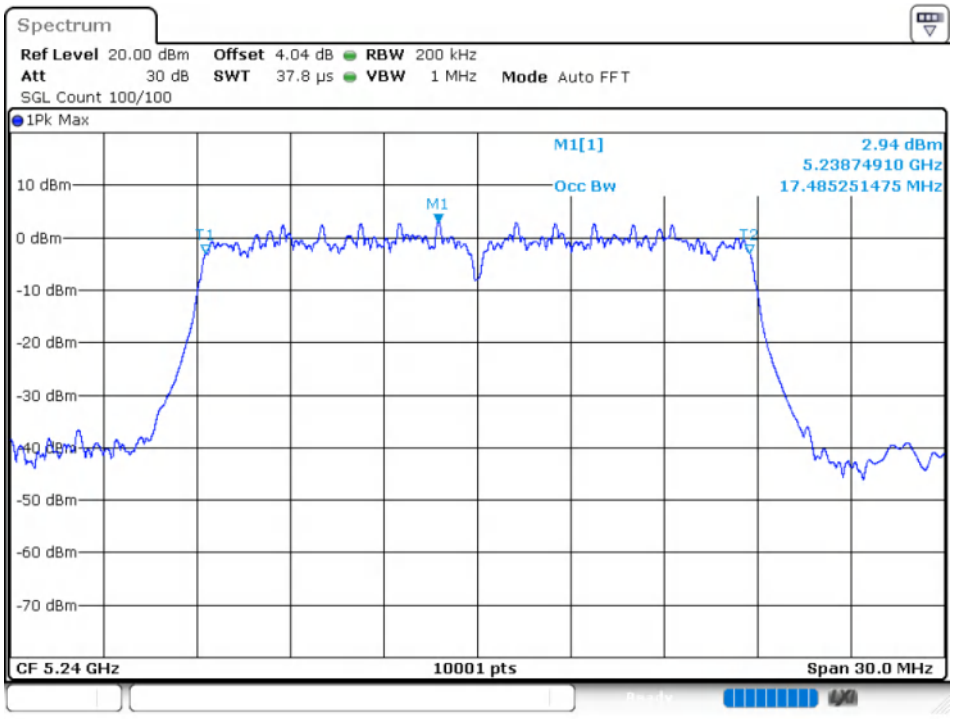
OBW NVNT n20 5180MHz Ant1



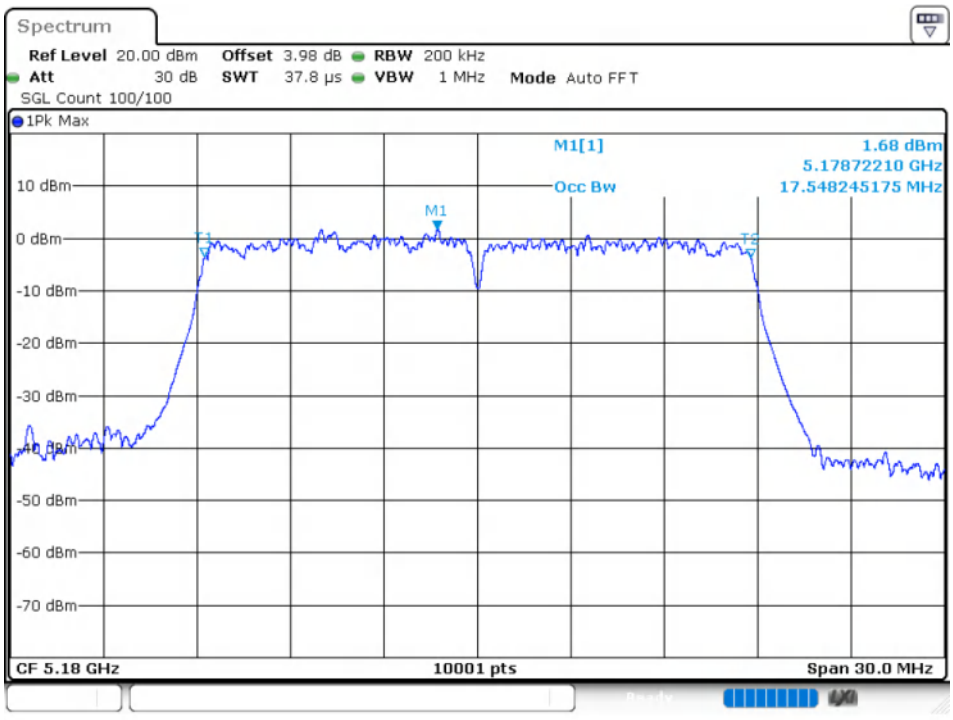
OBW NVNT n20 5200MHz Ant1



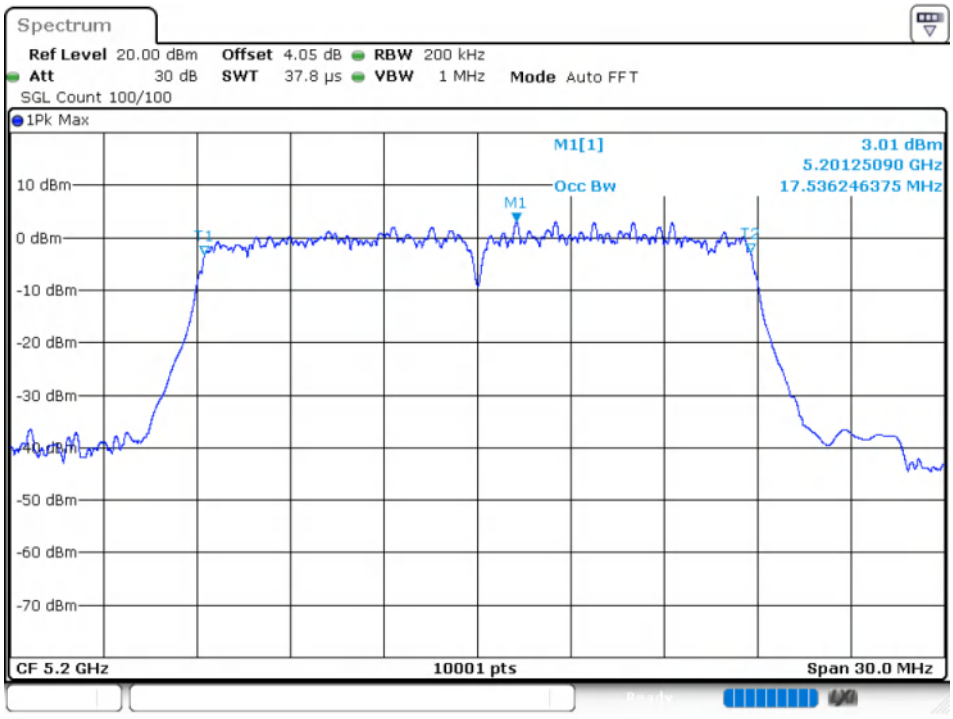
OBW NVNT n20 5240MHz Ant1



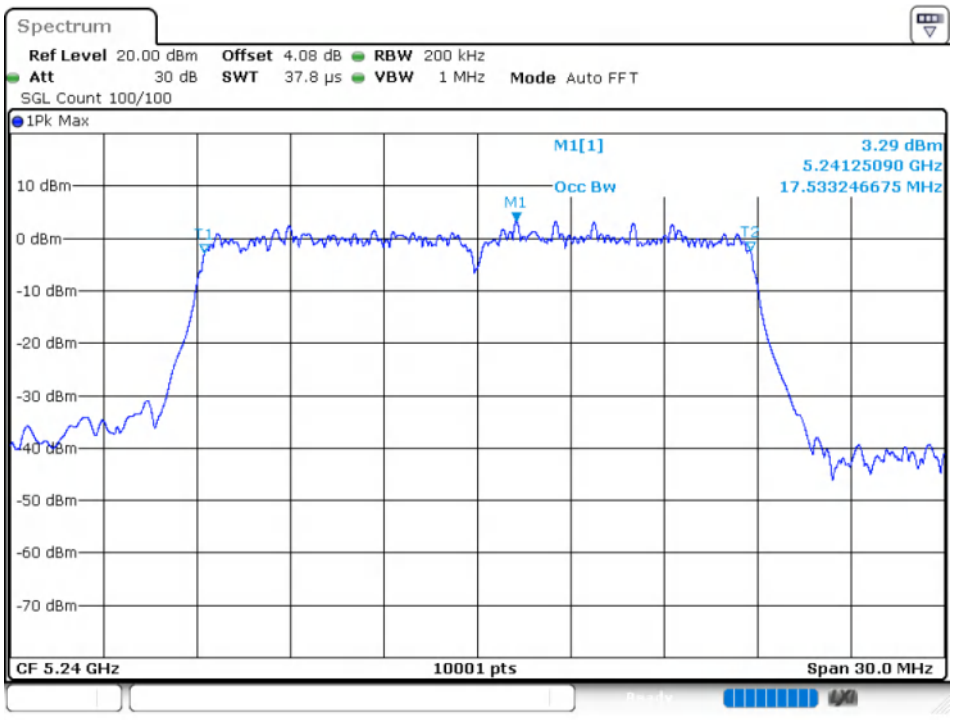
OBW NVNT n20 5180MHz Ant2



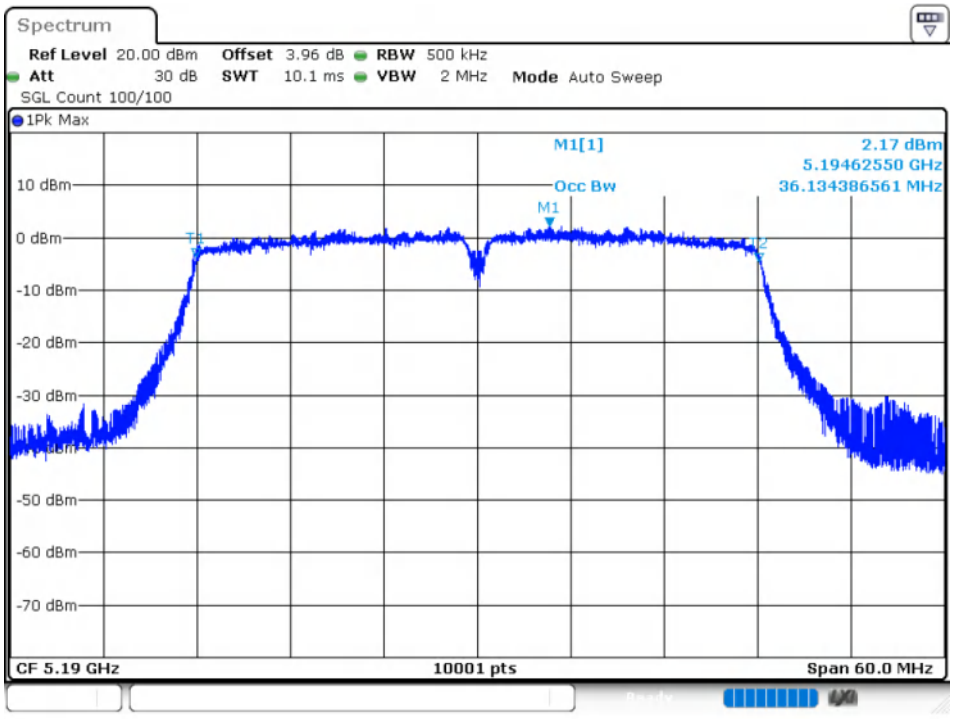
OBW NVNT n20 5200MHz Ant2



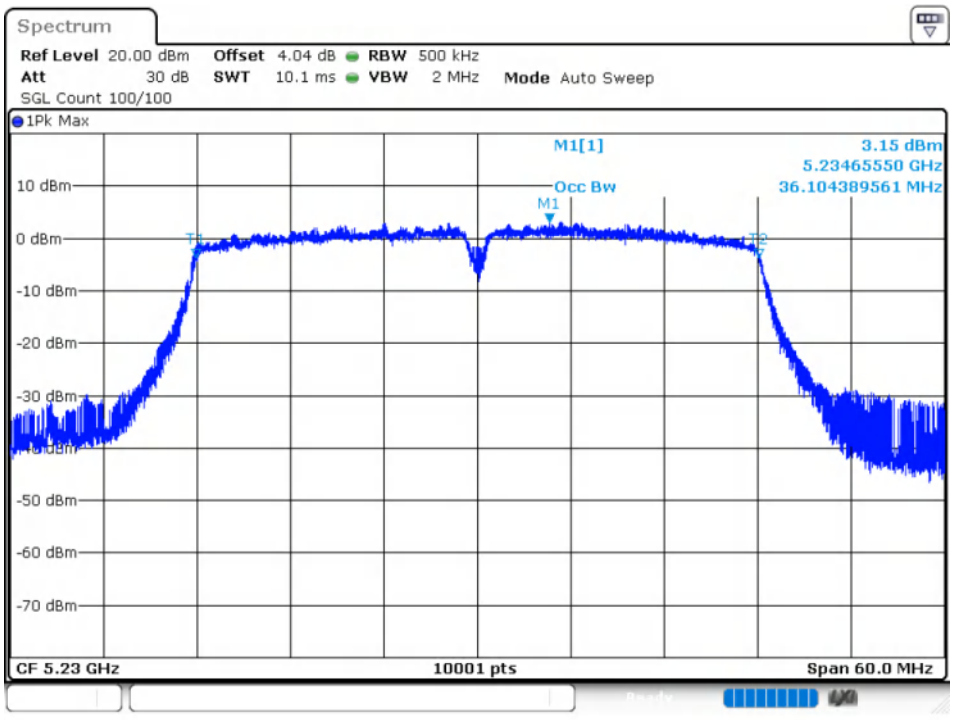
OBW NVNT n20 5240MHz Ant2



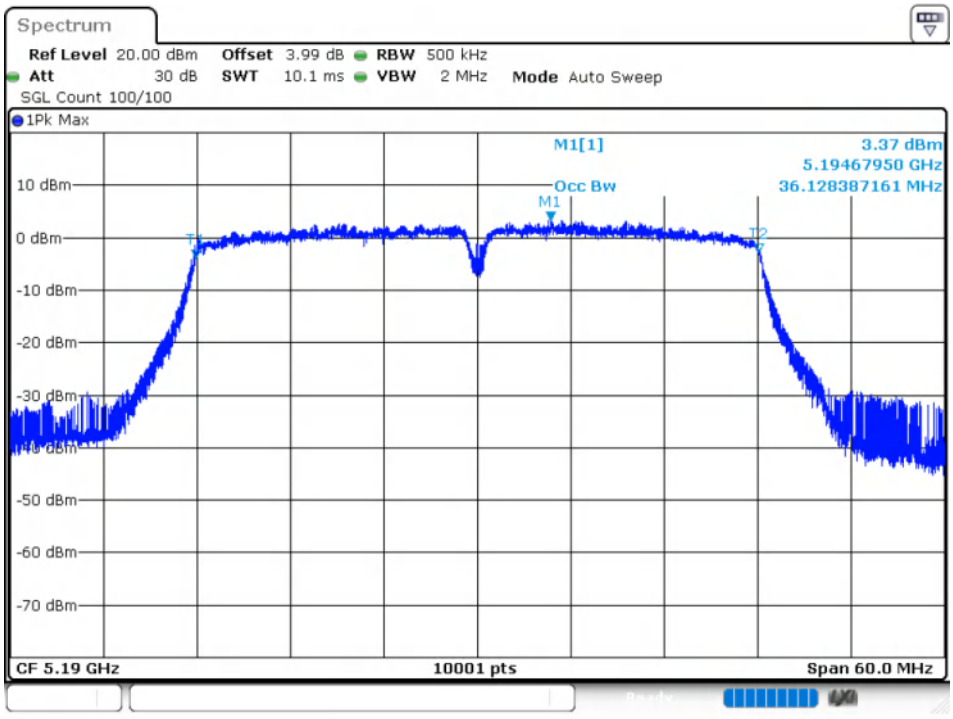
OBW NVNT n40 5190MHz Ant1



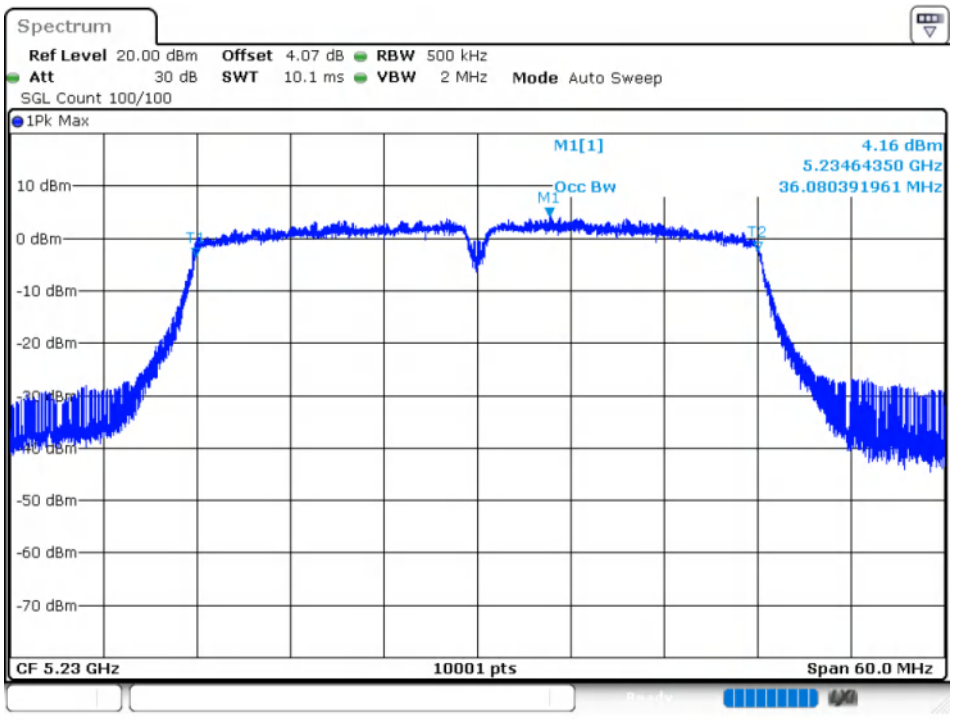
OBW NVNT n40 5230MHz Ant1



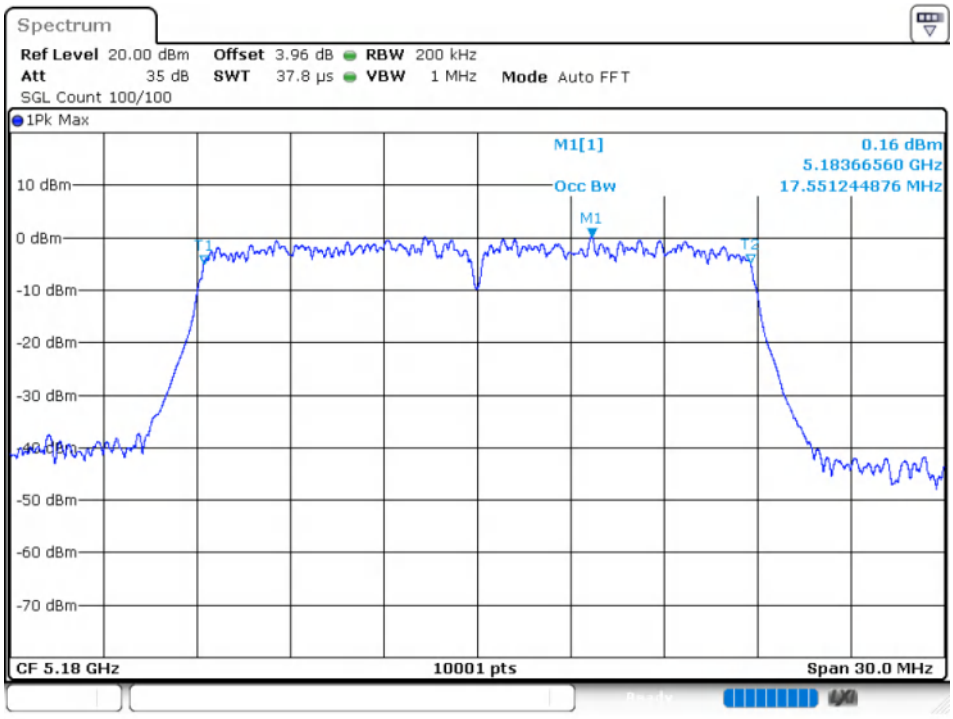
OBW NVNT n40 5190MHz Ant2



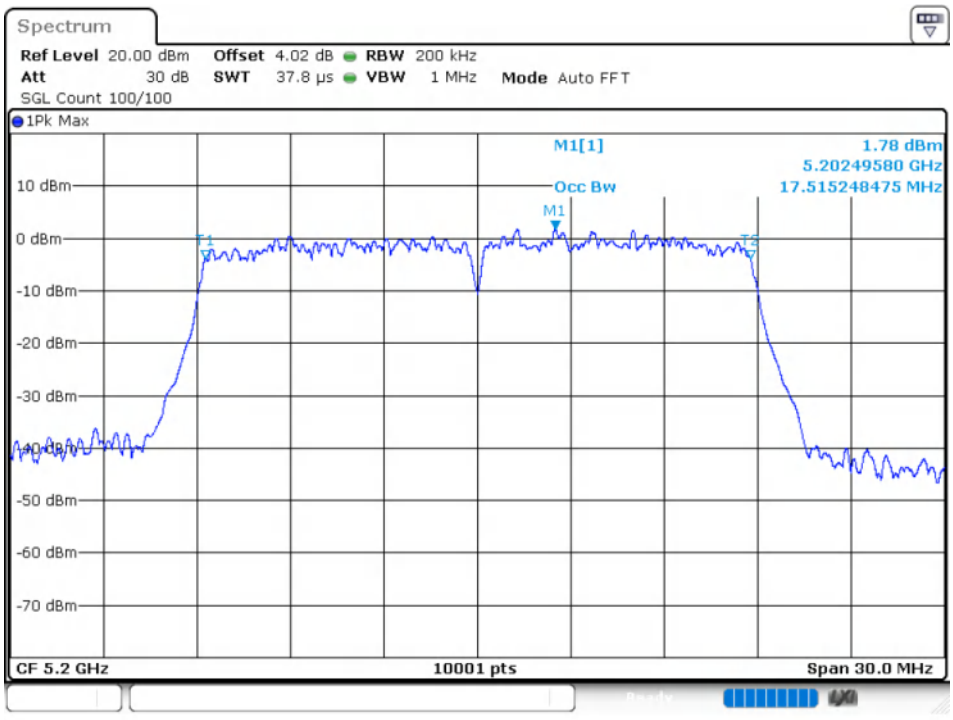
OBW NVNT n40 5230MHz Ant2



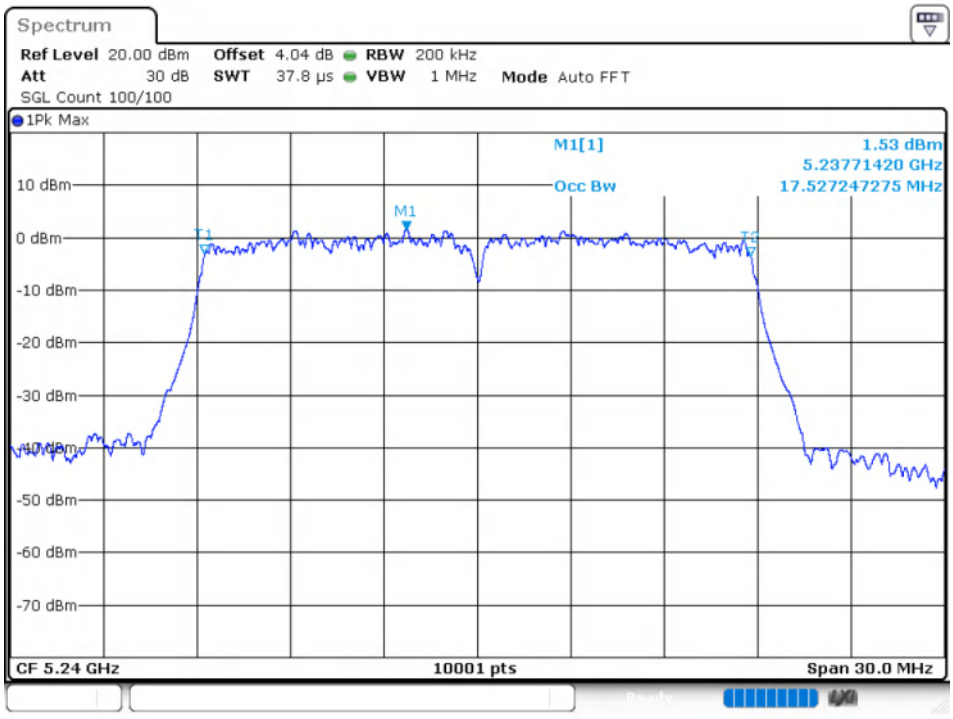
OBW NVNT ac20 5180MHz Ant1



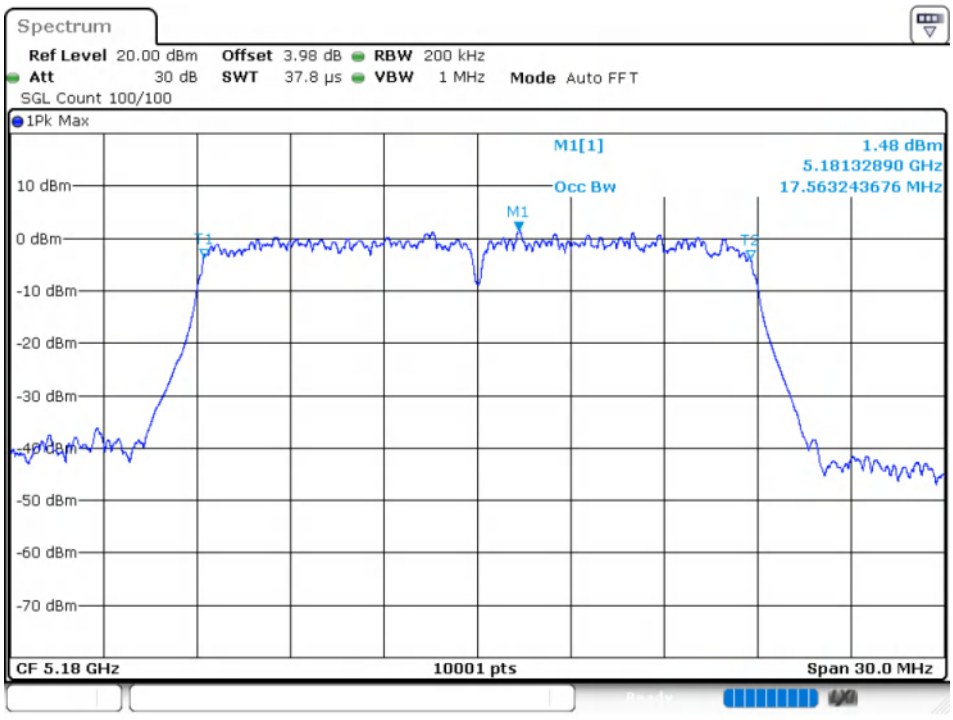
OBW NVNT ac20 5200MHz Ant1



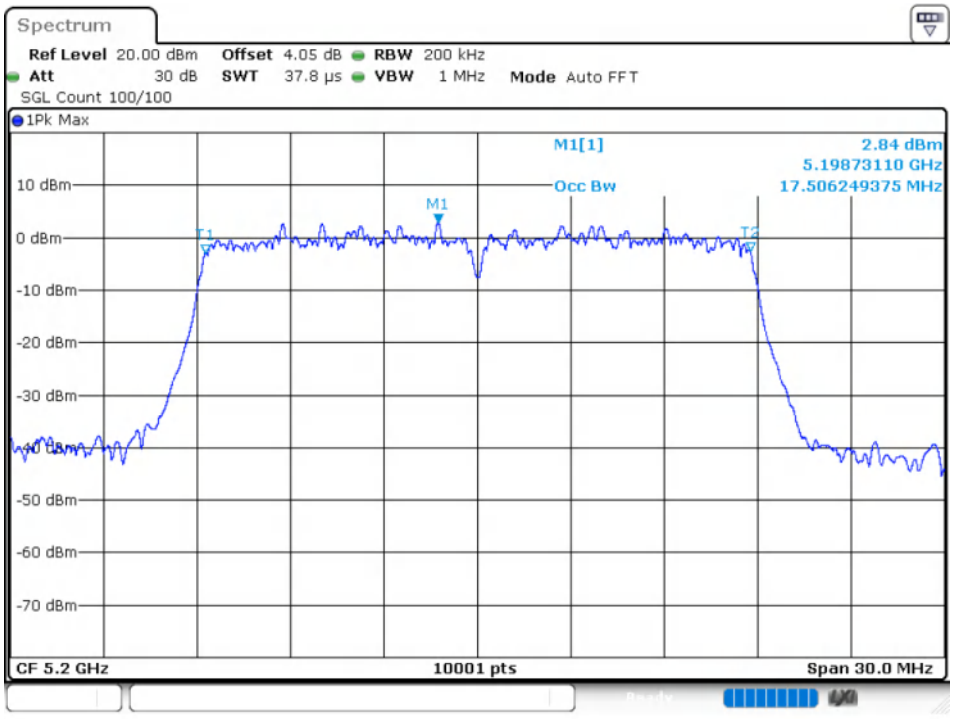
OBW NVNT ac20 5240MHz Ant1



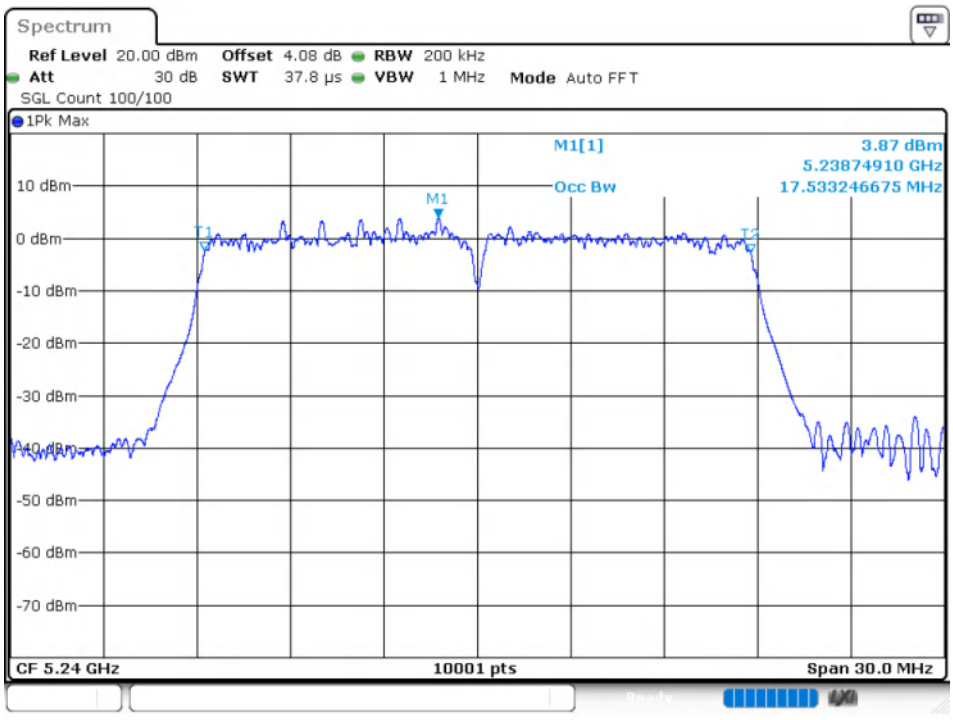
OBW NVNT ac20 5180MHz Ant2



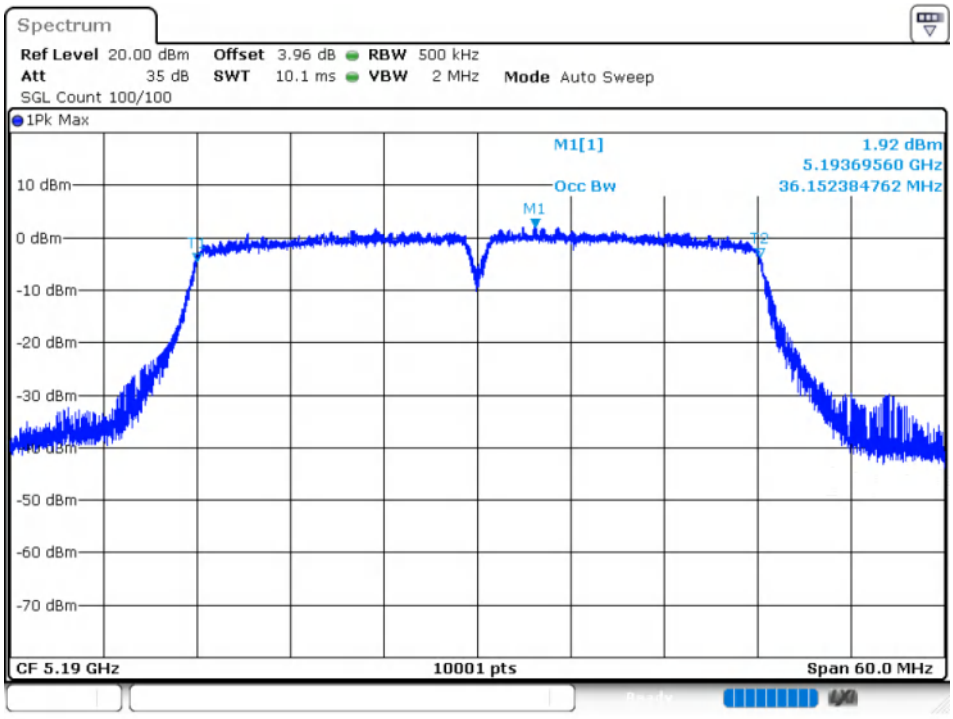
OBW NVNT ac20 5200MHz Ant2



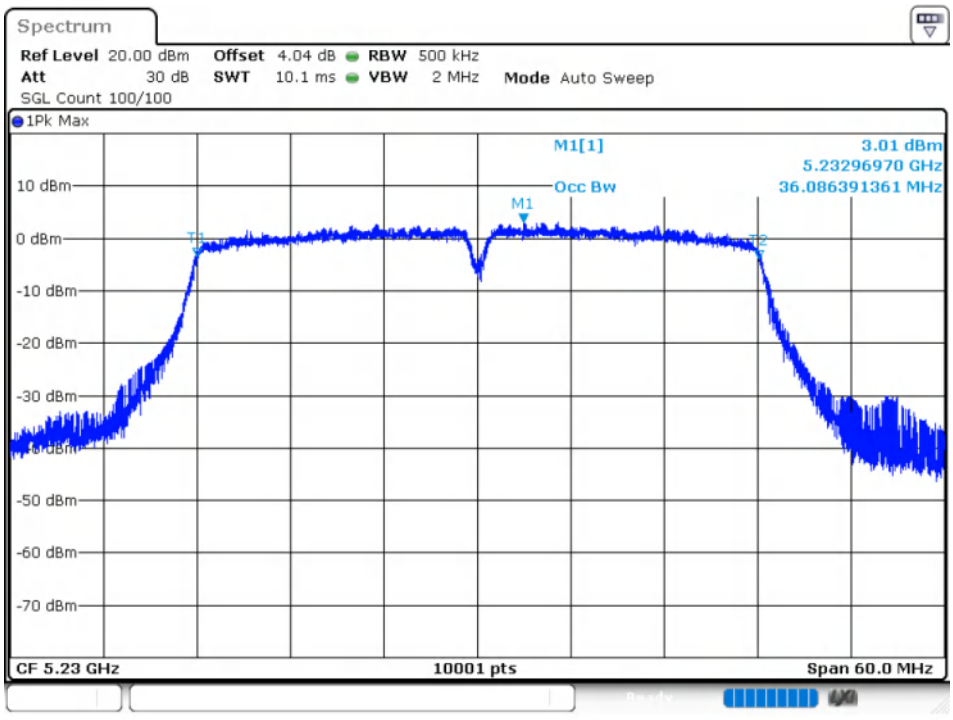
OBW NVNT ac20 5240MHz Ant2



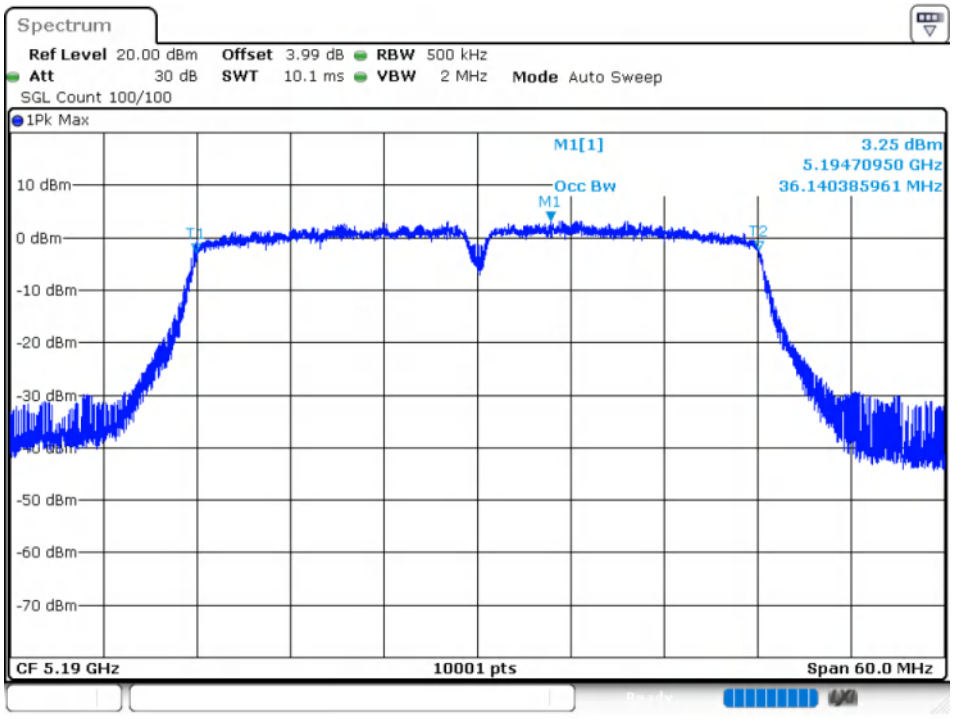
OBW NVNT ac40 5190MHz Ant1



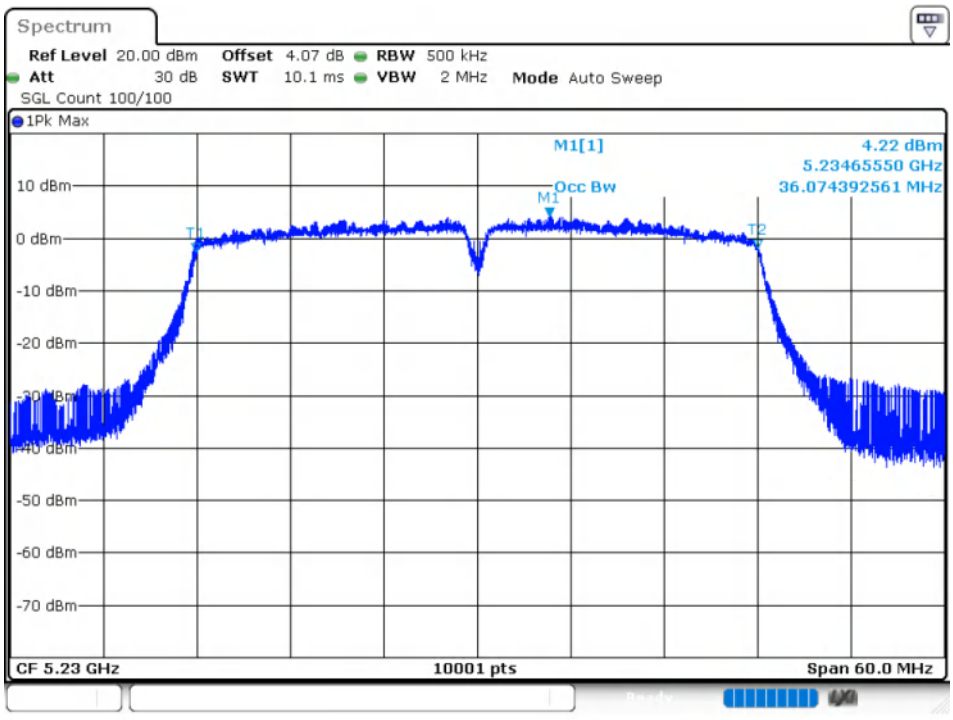
OBW NVNT ac40 5230MHz Ant1



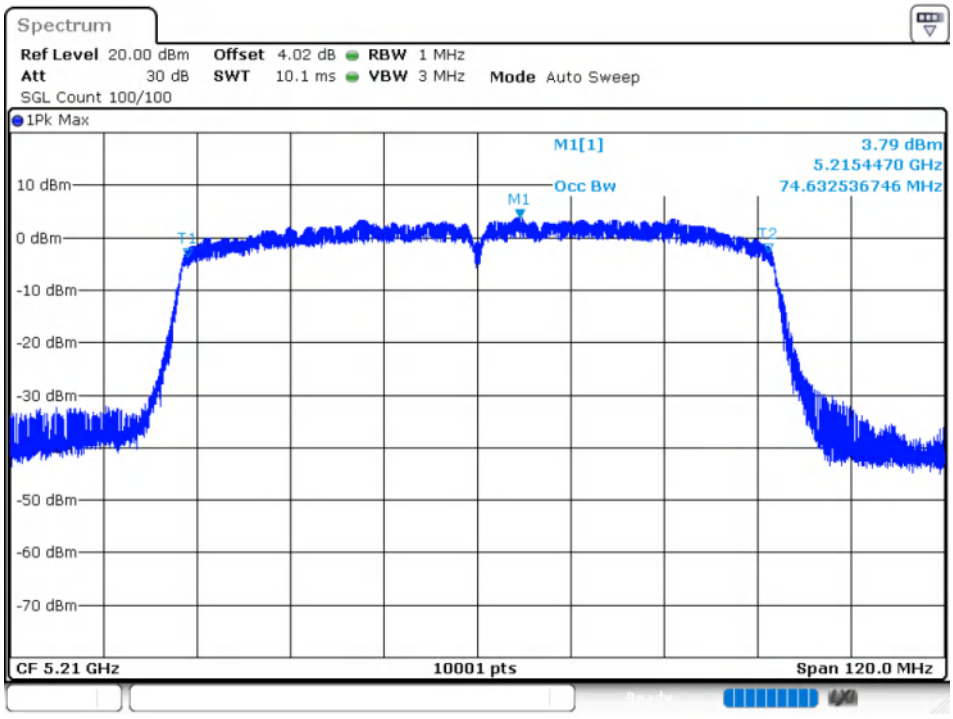
OBW NVNT ac40 5190MHz Ant2



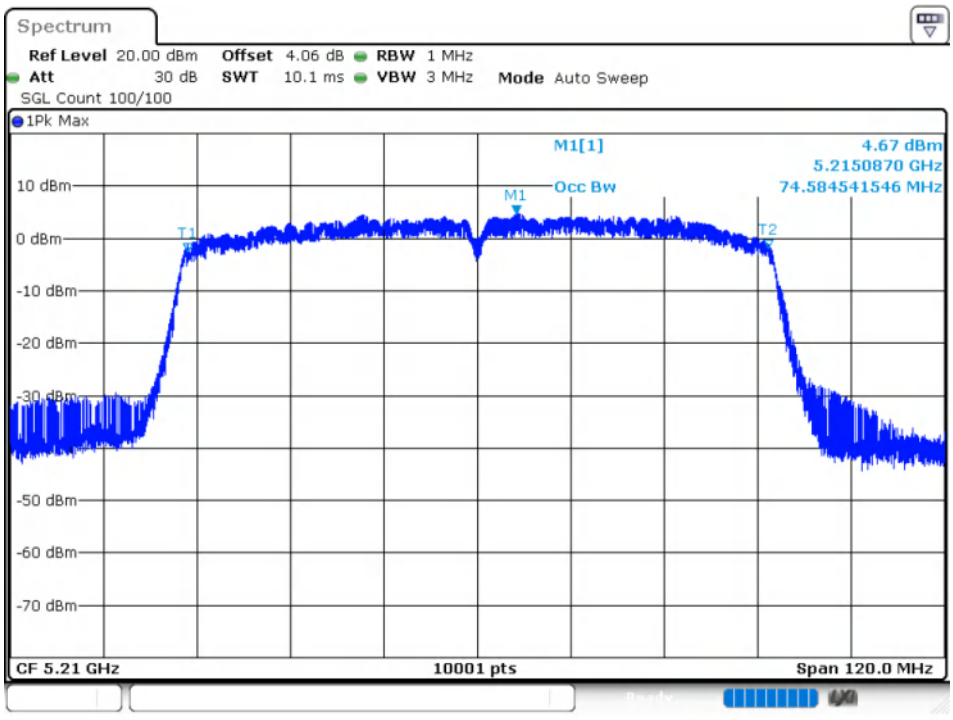
OBW NVNT ac40 5230MHz Ant2



OBW NVNT ac80 5210MHz Ant1

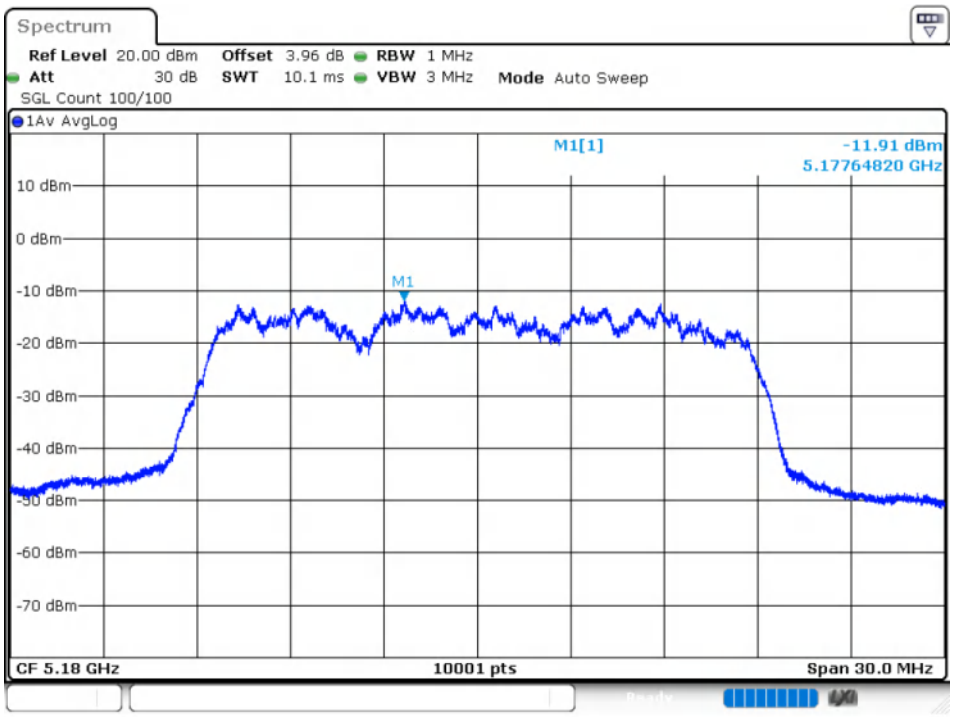
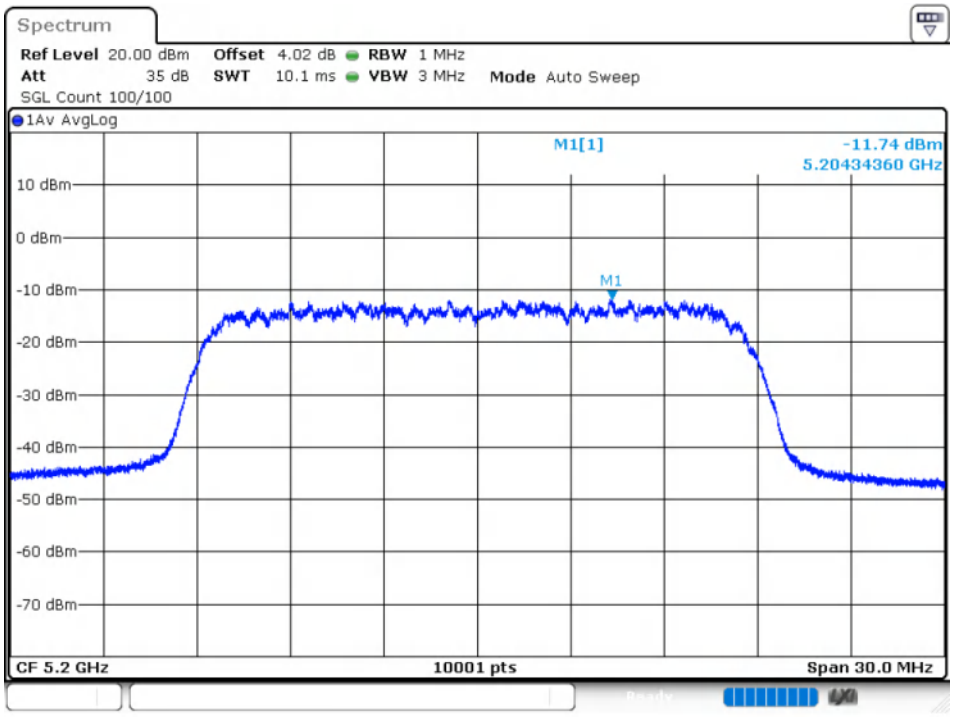


OBW NVNT ac80 5210MHz Ant2

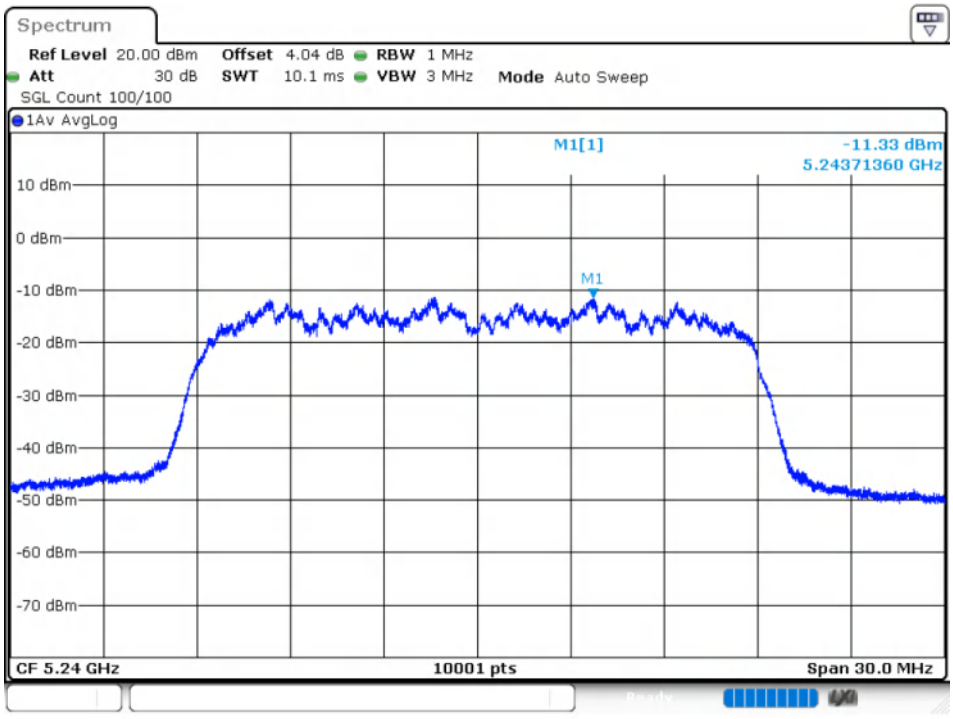


Maximum Power Spectral Density Level

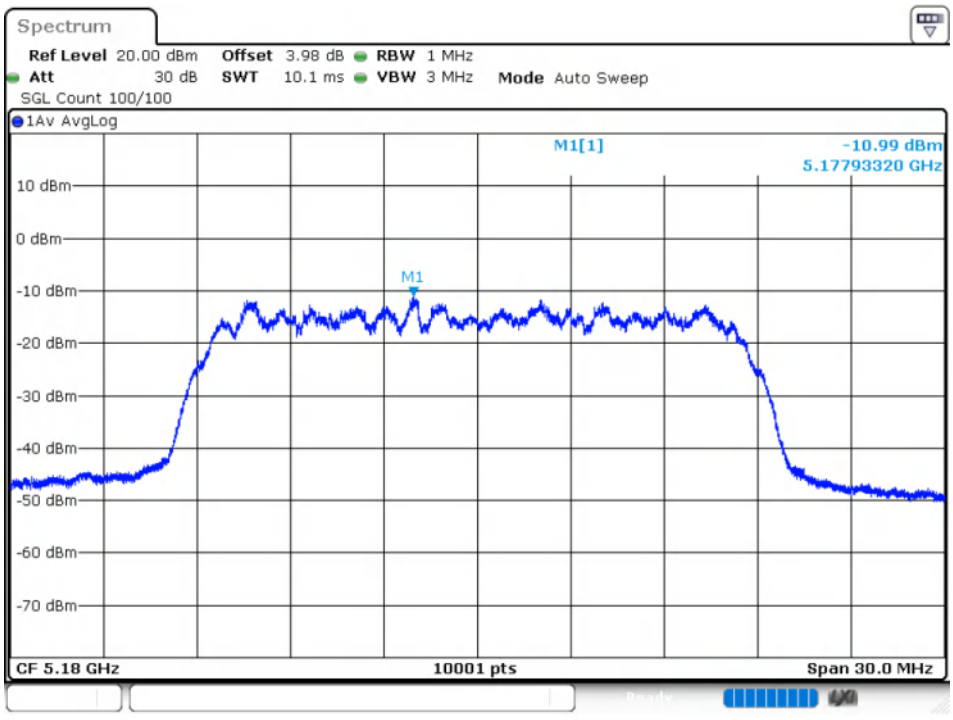
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-11.91	1.34	-10.57	11	Pass
NVNT	a	5200	Ant1	-11.74	1.34	-10.4	11	Pass
NVNT	a	5240	Ant1	-11.33	1.33	-10	11	Pass
NVNT	a	5180	Ant2	-10.99	1.34	-9.65	11	Pass
NVNT	a	5200	Ant2	-8.4	1.33	-7.07	11	Pass
NVNT	a	5240	Ant2	-11.09	1.32	-9.77	11	Pass
NVNT	n20	5180	Ant1	-13.3	1.42	-11.88	10.44	Pass
NVNT	n20	5200	Ant1	-11.45	1.4	-10.05	10.44	Pass
NVNT	n20	5240	Ant1	-10.48	1.42	-9.06	10.44	Pass
NVNT	n20	5180	Ant2	-12.89	1.42	-11.47	10.44	Pass
NVNT	n20	5200	Ant2	-12.88	1.4	-11.48	10.44	Pass
NVNT	n20	5240	Ant2	-11.09	1.41	-9.68	10.44	Pass
NVNT	n40	5190	Ant1	-24.27	2.47	-21.8	10.44	Pass
NVNT	n40	5230	Ant1	-23.75	2.47	-21.28	10.44	Pass
NVNT	n40	5190	Ant2	-22.63	2.48	-20.15	10.44	Pass
NVNT	n40	5230	Ant2	-23	2.47	-20.53	10.44	Pass
NVNT	ac20	5180	Ant1	-12.82	1.42	-11.4	10.44	Pass
NVNT	ac20	5200	Ant1	-12.81	1.43	-11.38	10.44	Pass
NVNT	ac20	5240	Ant1	-11.88	1.4	-10.48	10.44	Pass
NVNT	ac20	5180	Ant2	-11.56	1.4	-10.16	10.44	Pass
NVNT	ac20	5200	Ant2	-11.72	1.42	-10.3	10.44	Pass
NVNT	ac20	5240	Ant2	-11.88	1.4	-10.48	10.44	Pass
NVNT	ac40	5190	Ant1	-22.99	2.45	-20.54	10.44	Pass
NVNT	ac40	5230	Ant1	-22.85	2.46	-20.39	10.44	Pass
NVNT	ac40	5190	Ant2	-19.33	2.46	-16.87	10.44	Pass
NVNT	ac40	5230	Ant2	-21.99	2.46	-19.53	10.44	Pass
NVNT	ac80	5210	Ant1	-31.44	4	-27.44	10.44	Pass
NVNT	ac80	5210	Ant2	-31.91	3.87	-28.04	10.44	Pass

Test Graphs
PSD NVNT a 5180MHz Ant1

PSD NVNT a 5200MHz Ant1


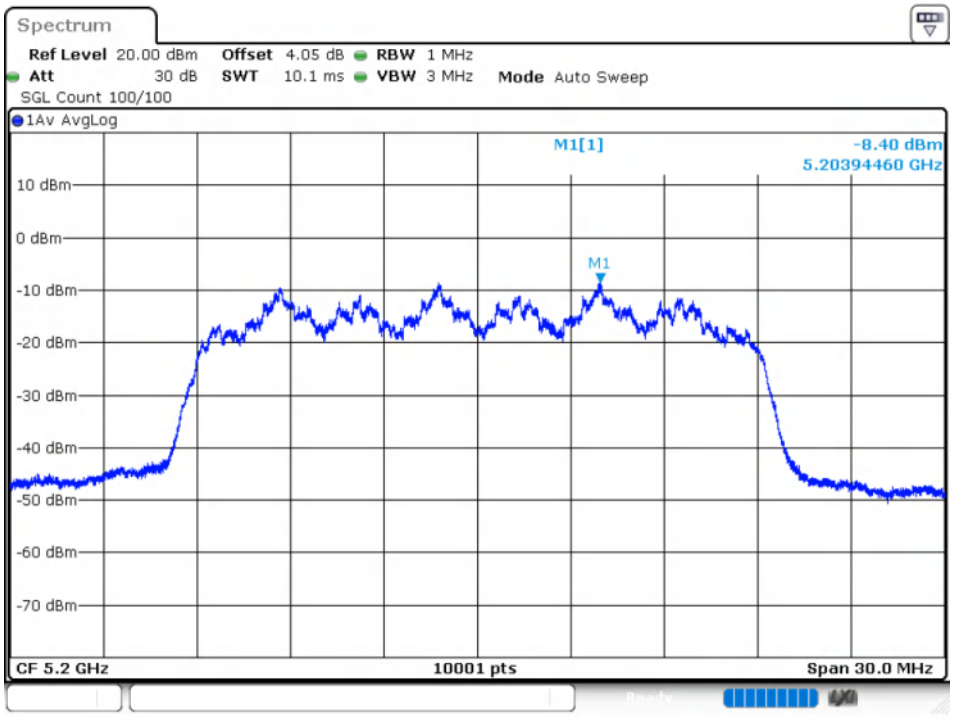
PSD NVNT a 5240MHz Ant1



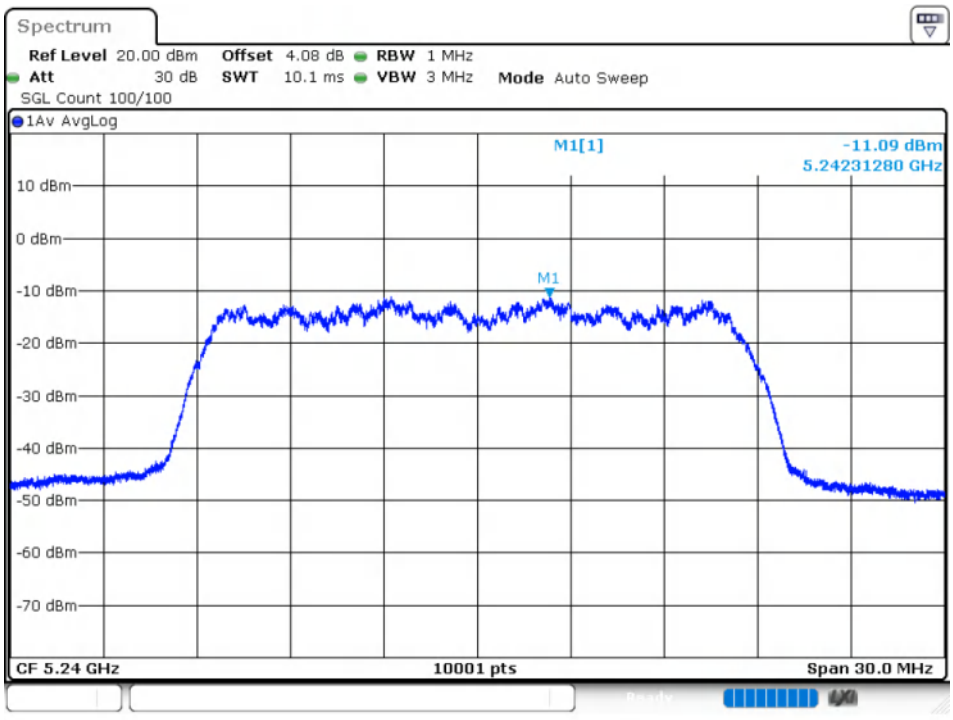
PSD NVNT a 5180MHz Ant2



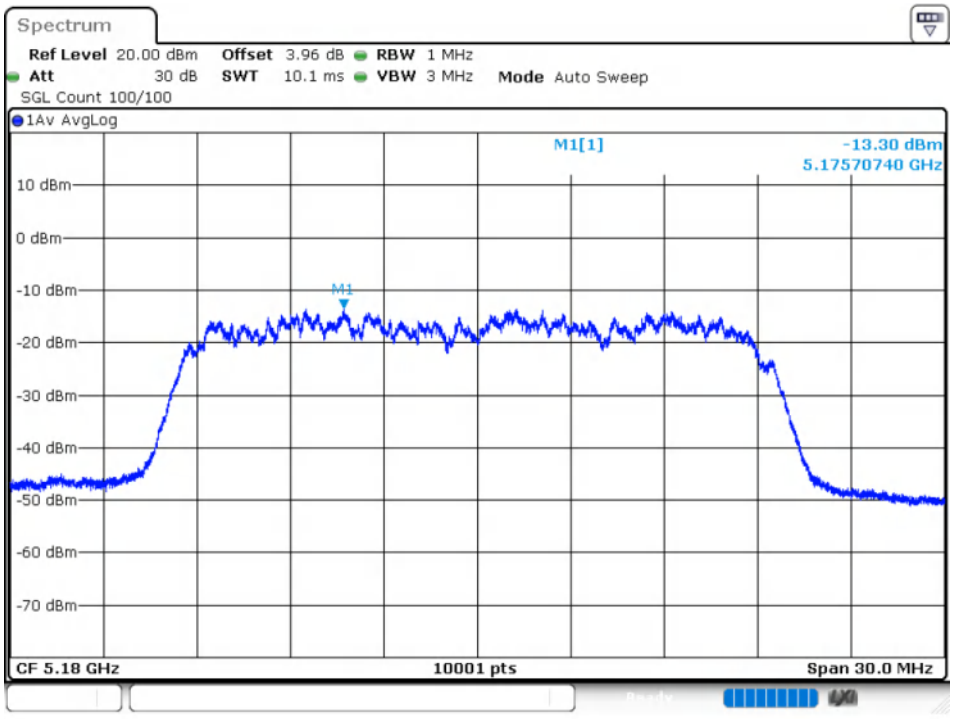
PSD NVNT a 5200MHz Ant2



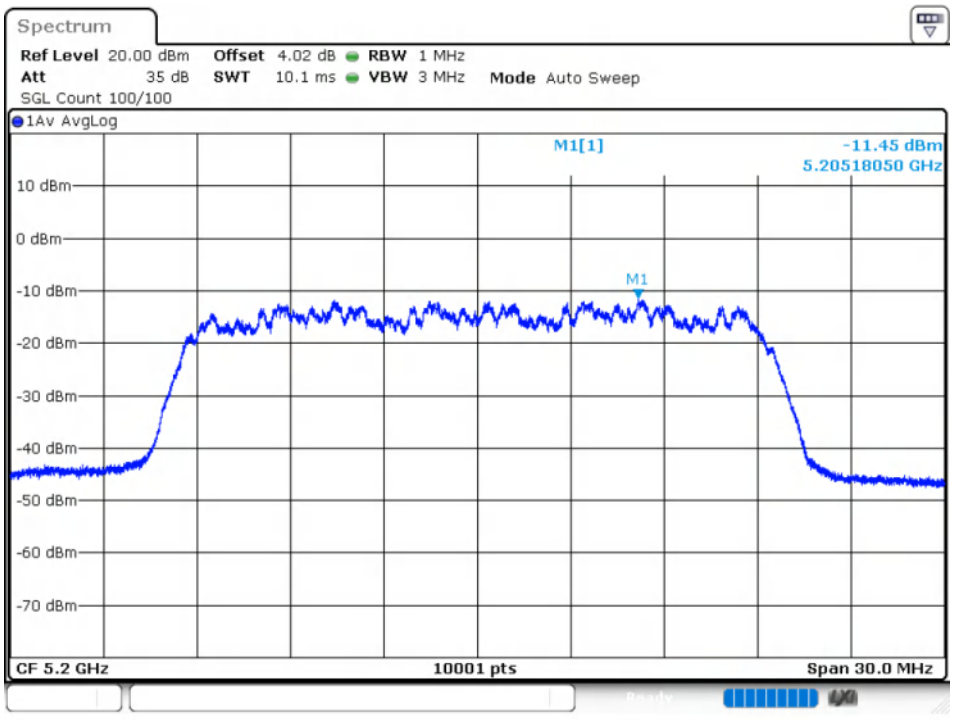
PSD NVNT a 5240MHz Ant2



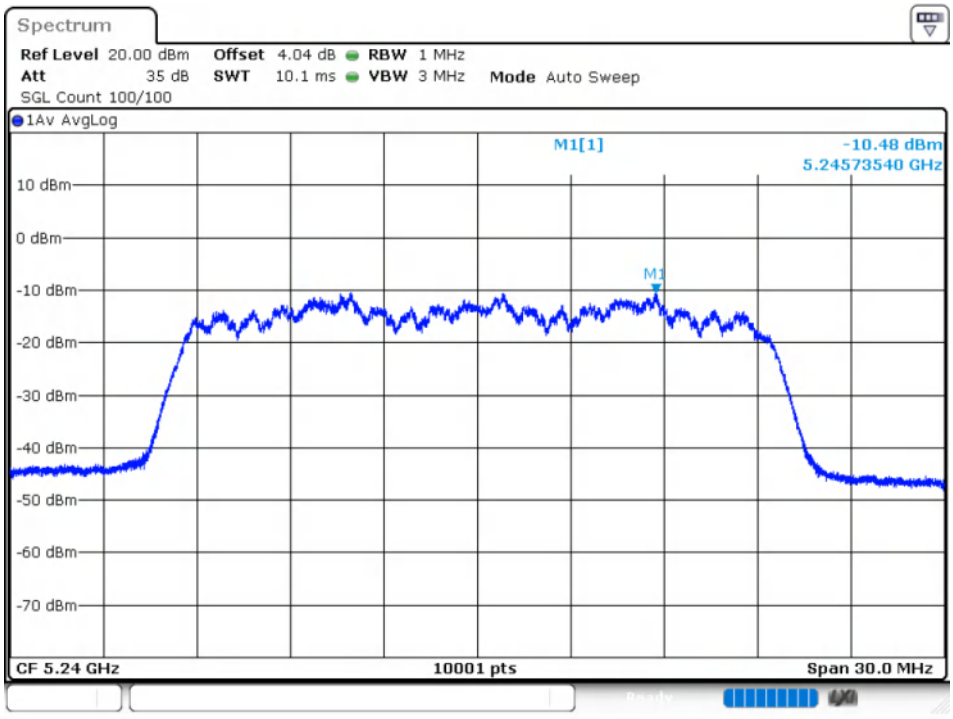
PSD NVNT n20 5180MHz Ant1



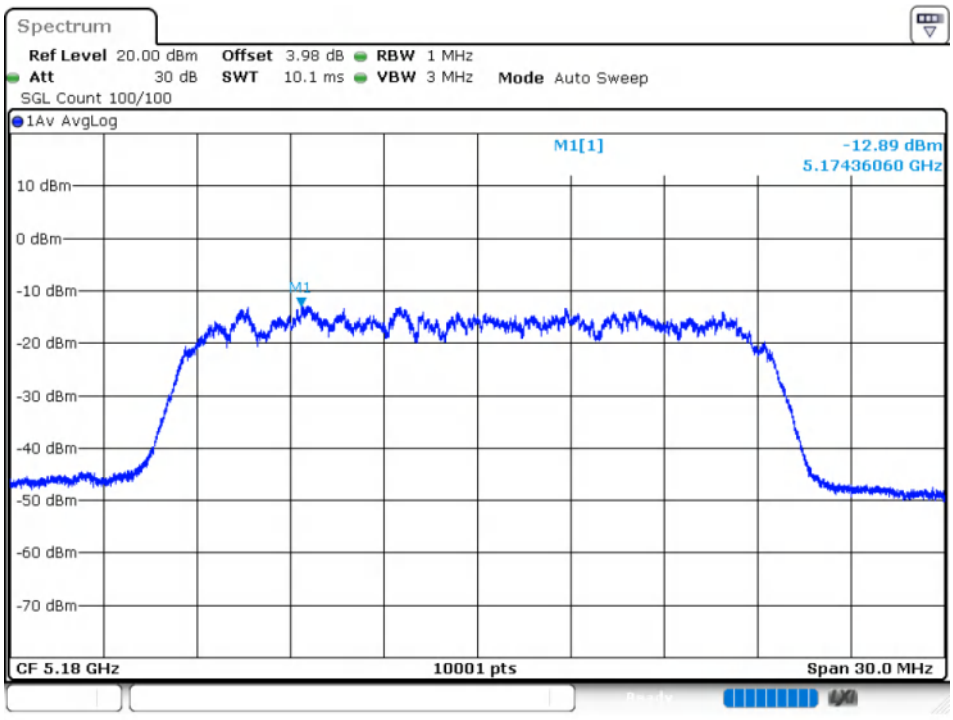
PSD NVNT n20 5200MHz Ant1



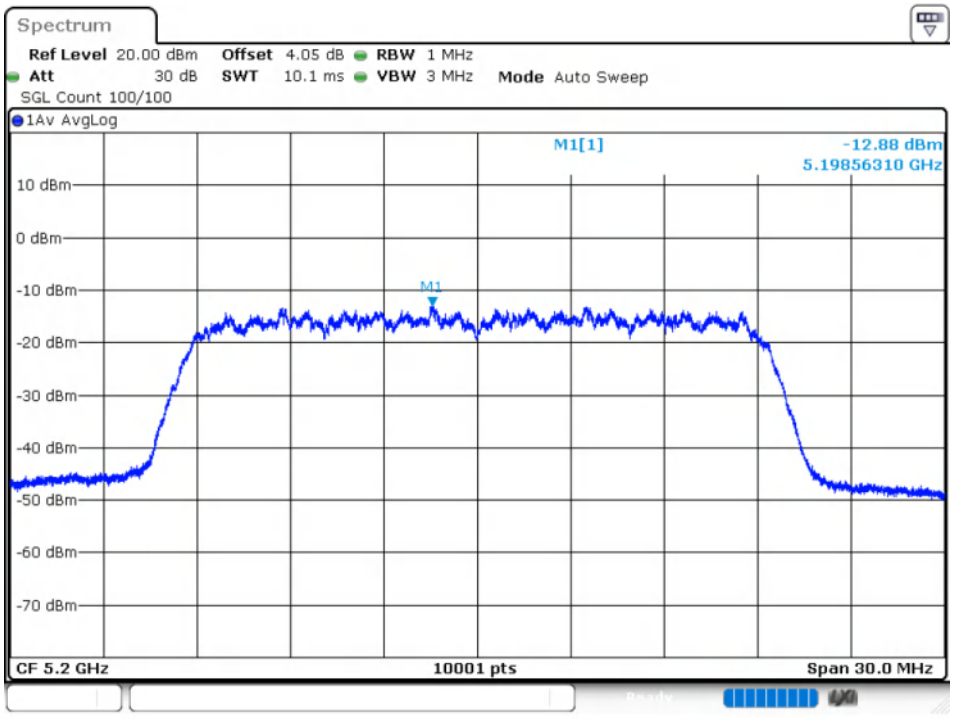
PSD NVNT n20 5240MHz Ant1



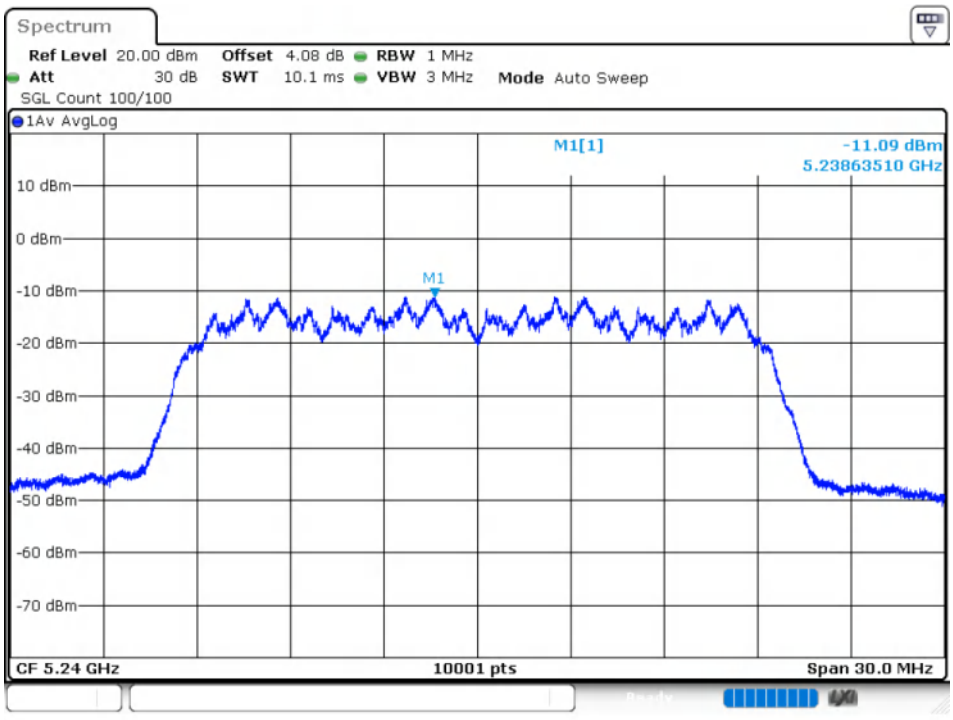
PSD NVNT n20 5180MHz Ant2



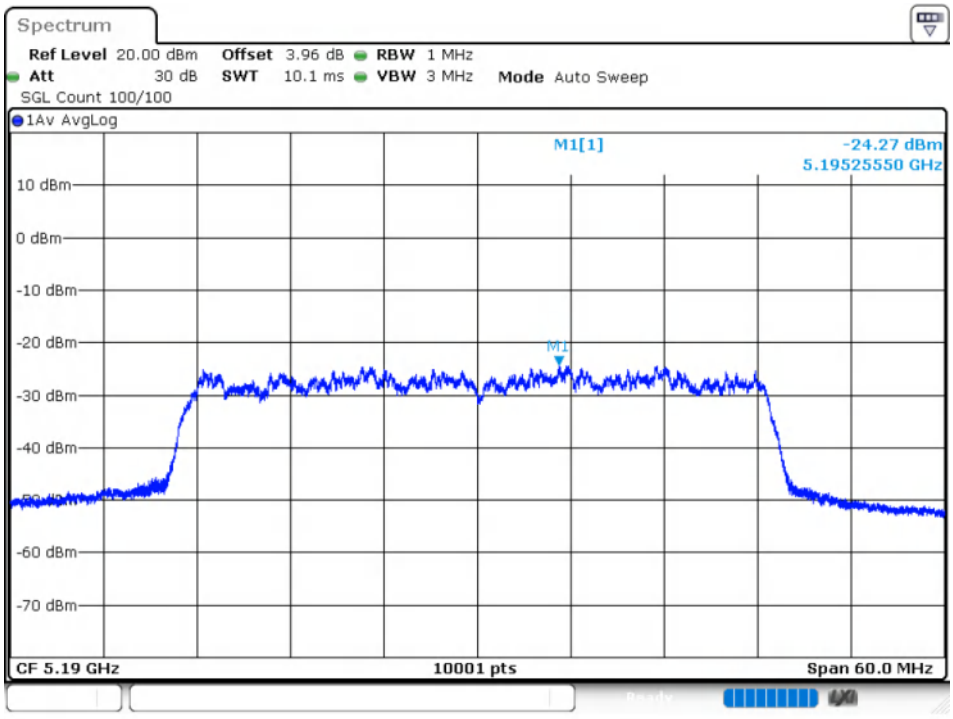
PSD NVNT n20 5200MHz Ant2



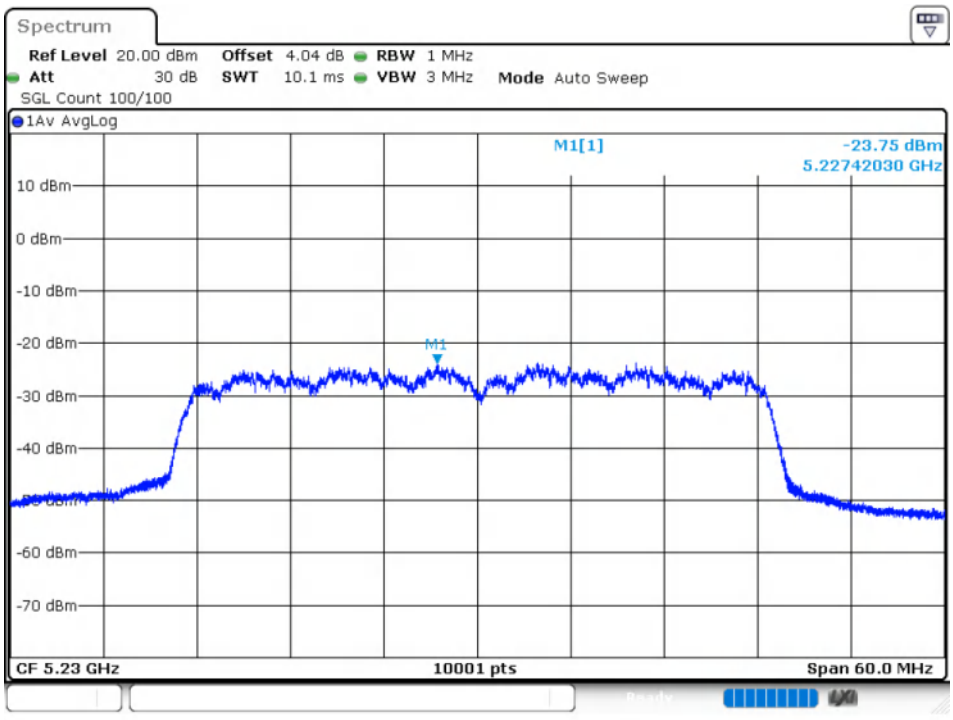
PSD NVNT n20 5240MHz Ant2



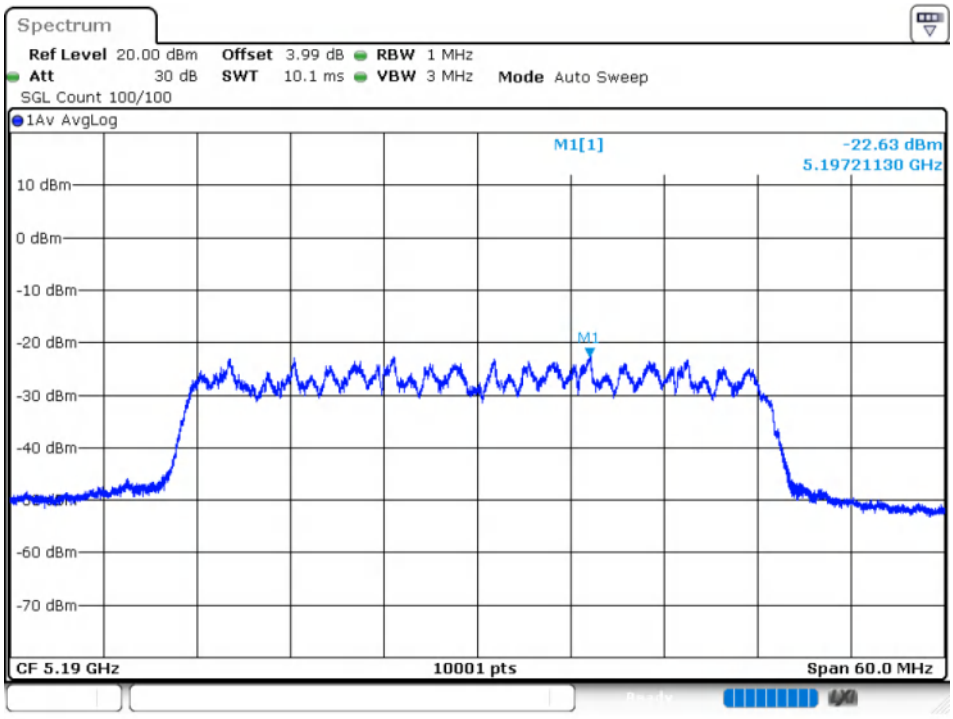
PSD NVNT n40 5190MHz Ant1



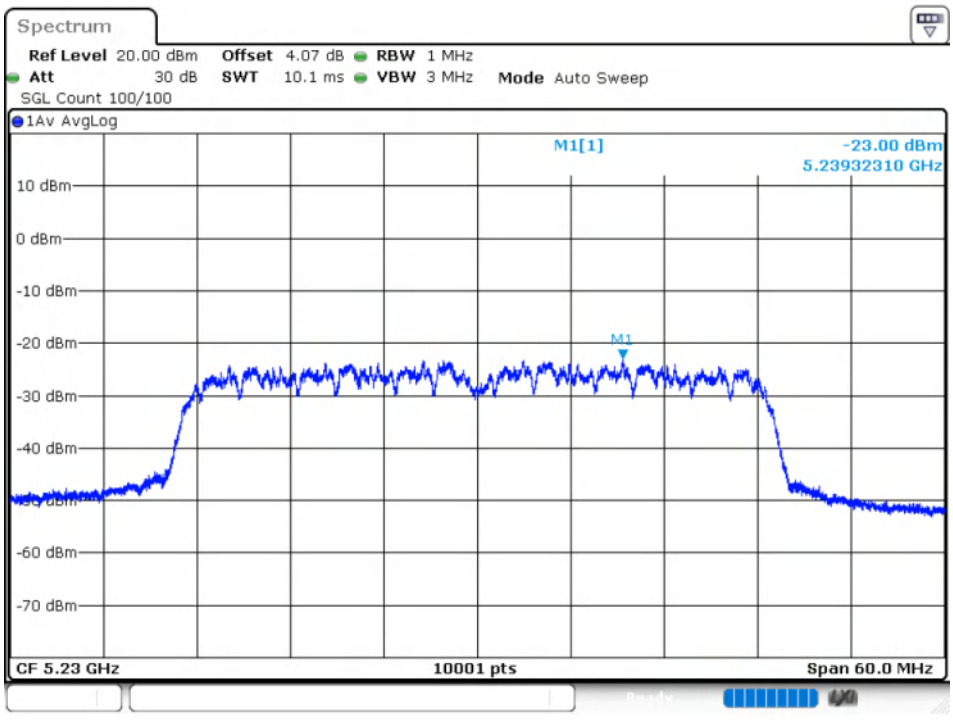
PSD NVNT n40 5230MHz Ant1



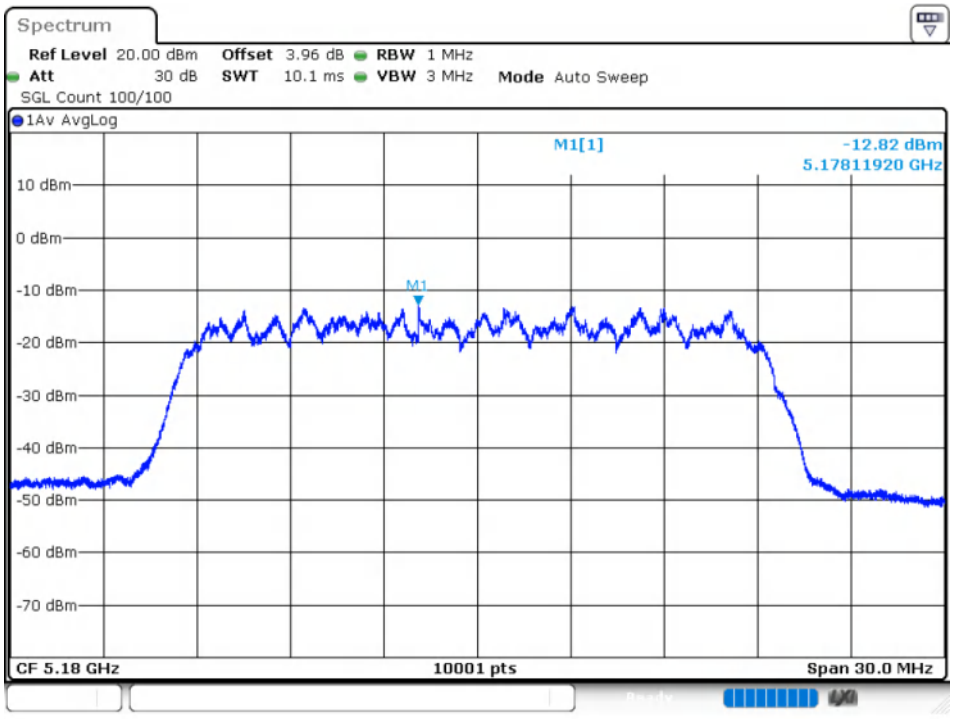
PSD NVNT n40 5190MHz Ant2



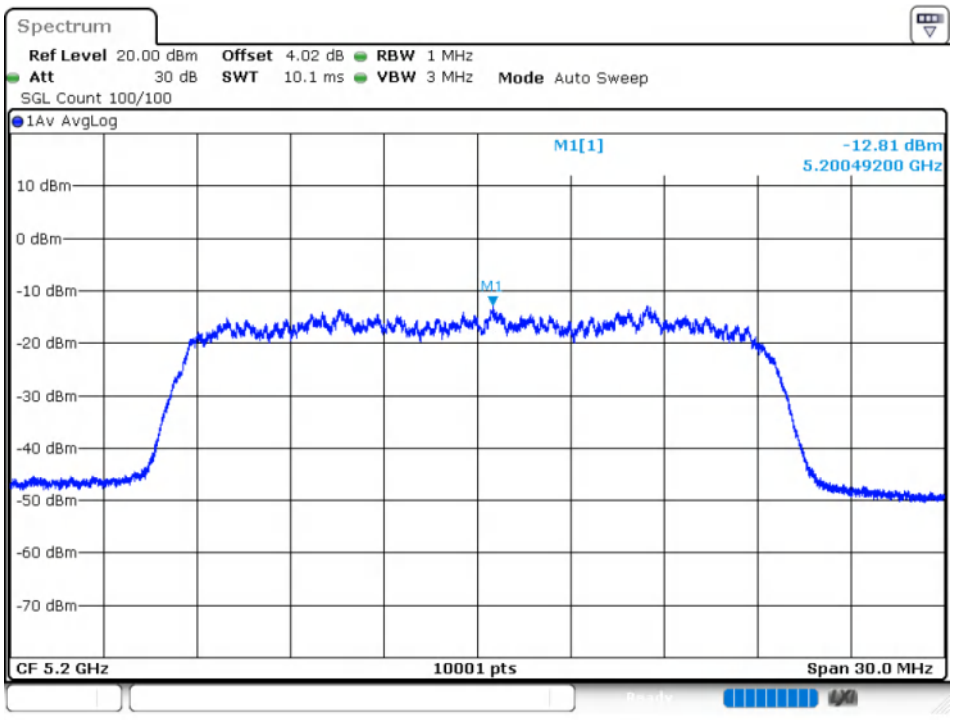
PSD NVNT n40 5230MHz Ant2



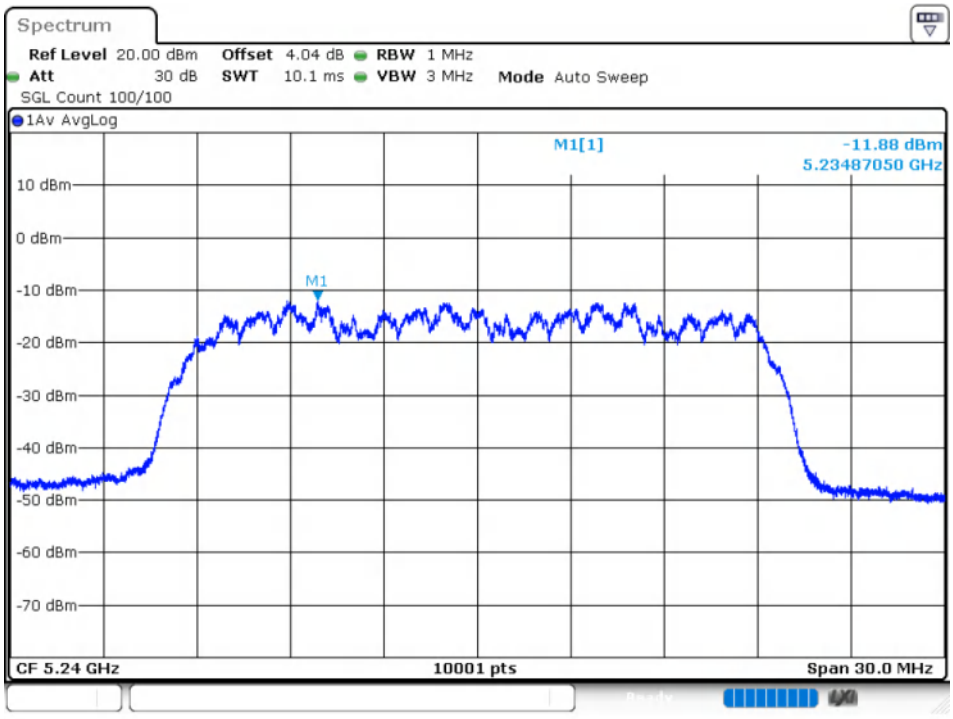
PSD NVNT ac20 5180MHz Ant1



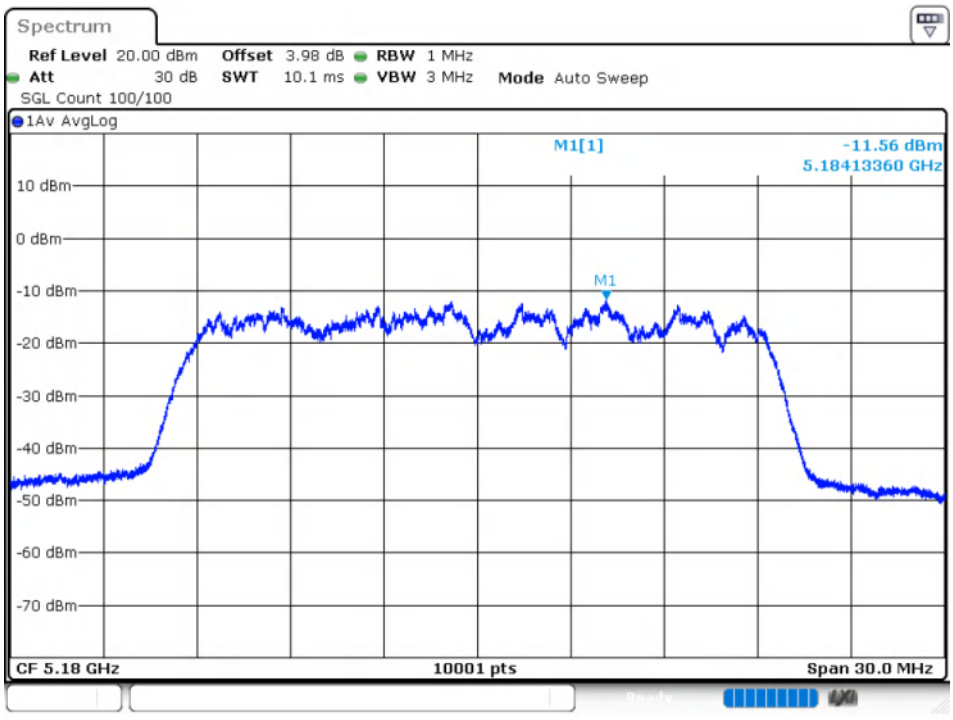
PSD NVNT ac20 5200MHz Ant1



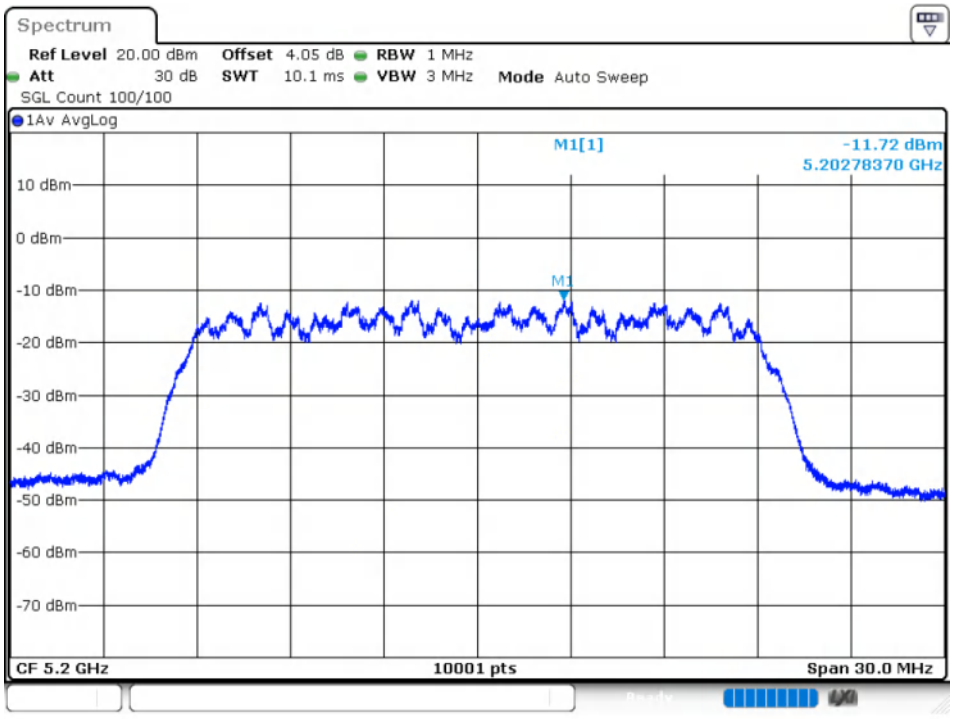
PSD NVNT ac20 5240MHz Ant1



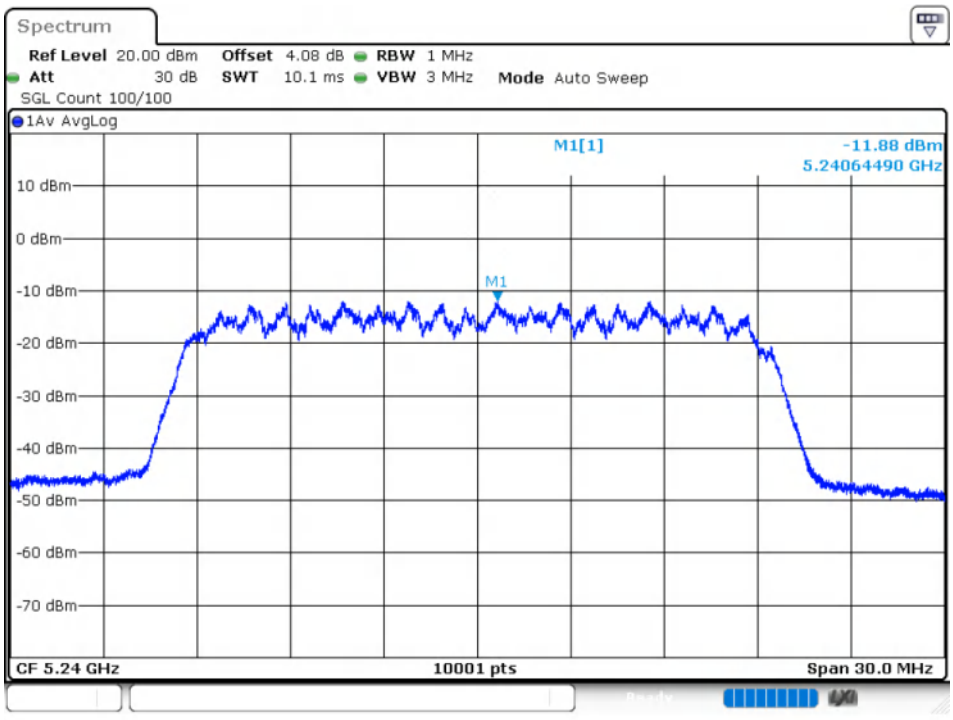
PSD NVNT ac20 5180MHz Ant2



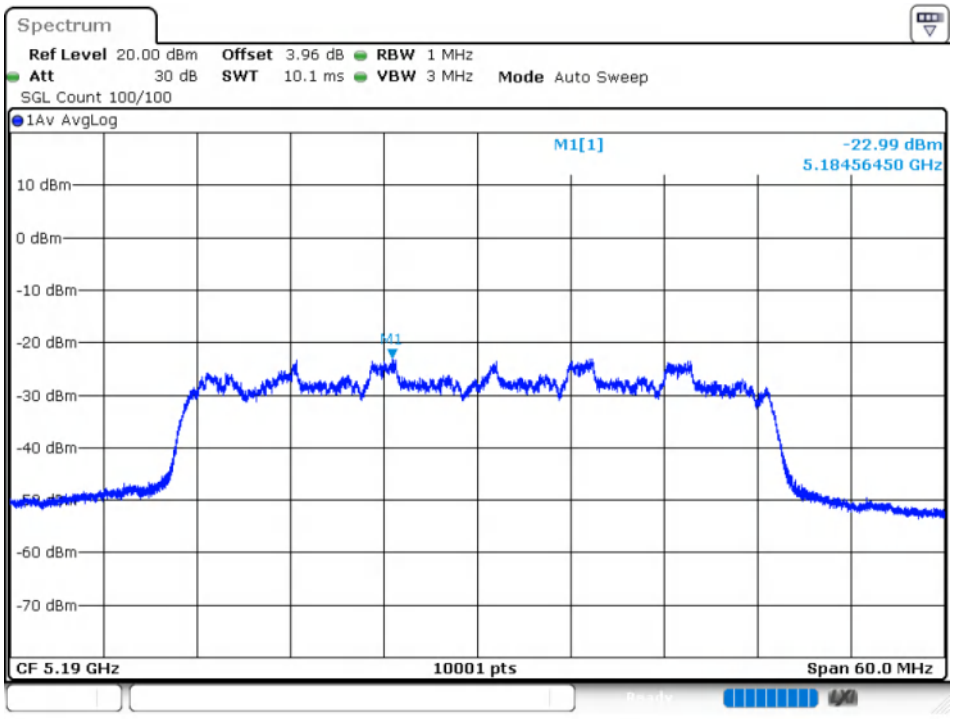
PSD NVNT ac20 5200MHz Ant2



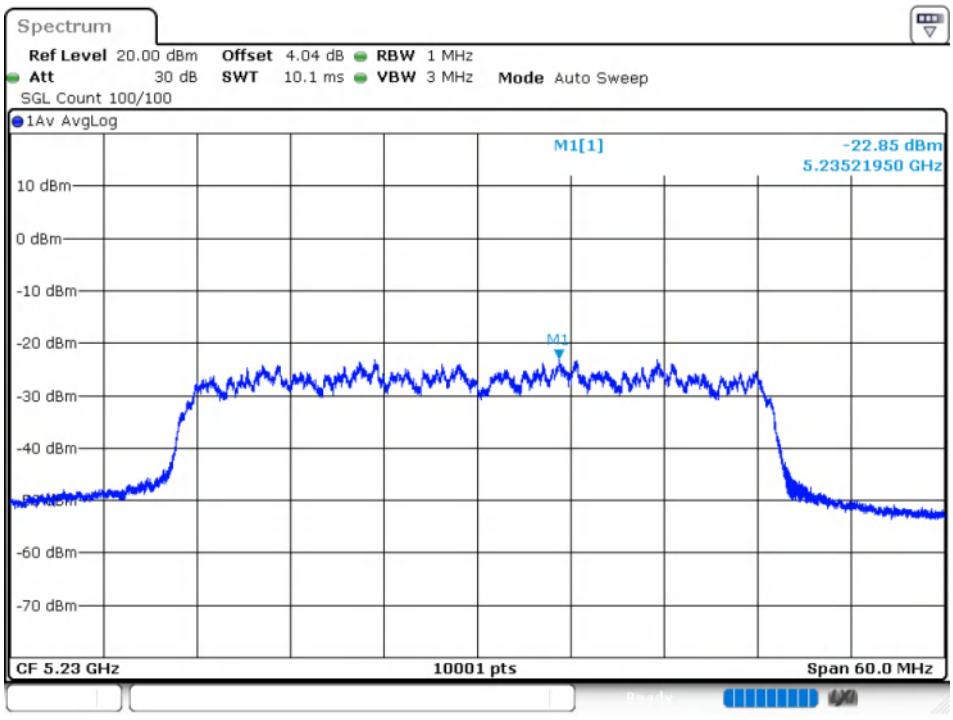
PSD NVNT ac20 5240MHz Ant2



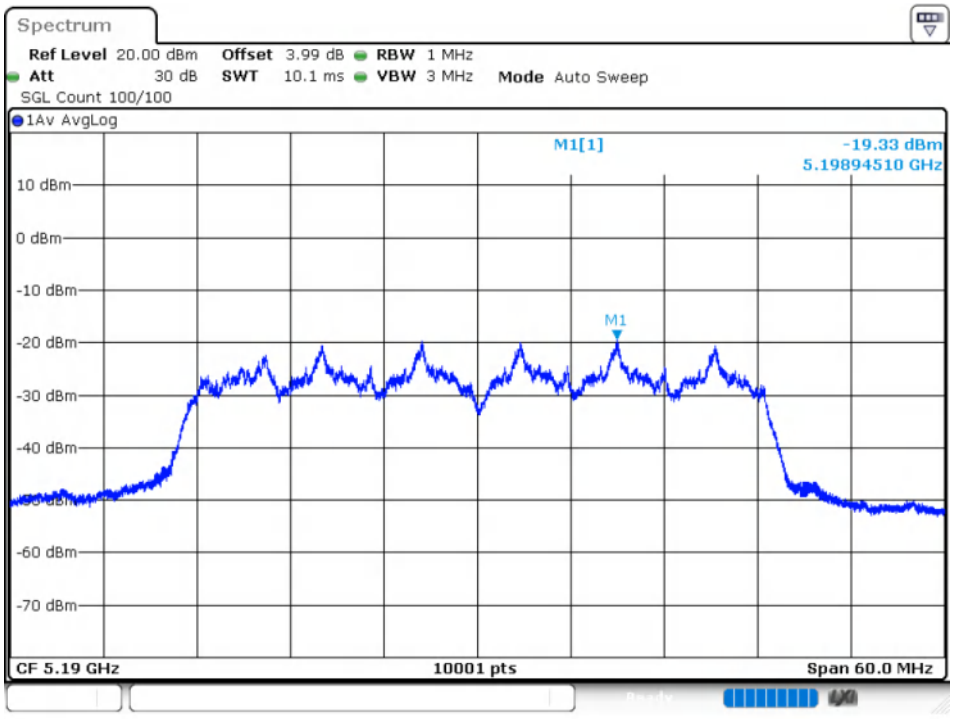
PSD NVNT ac40 5190MHz Ant1



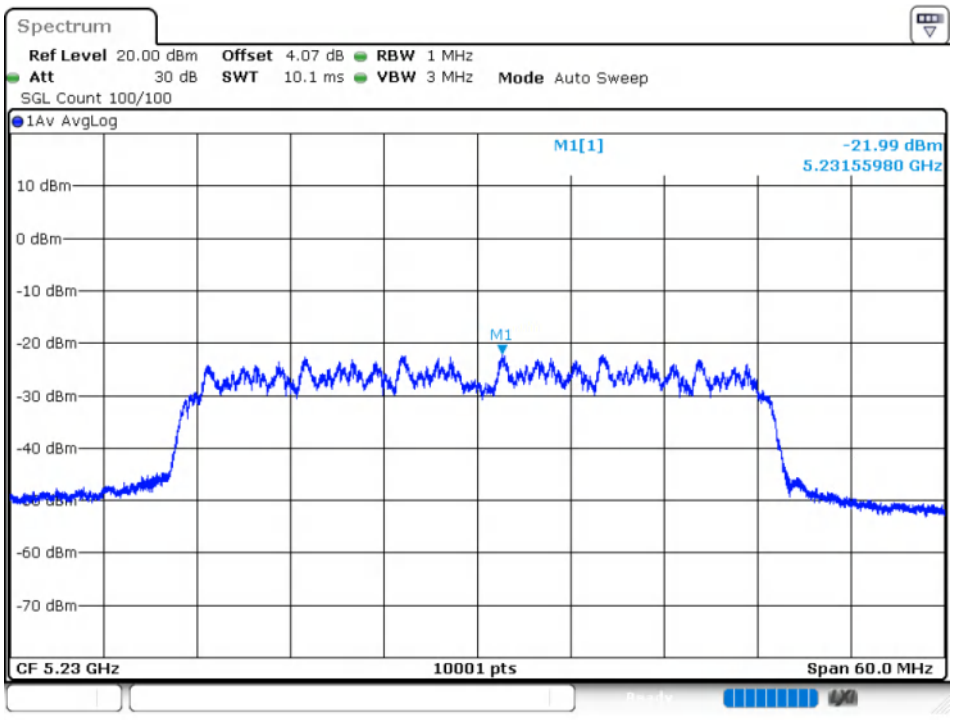
PSD NVNT ac40 5230MHz Ant1



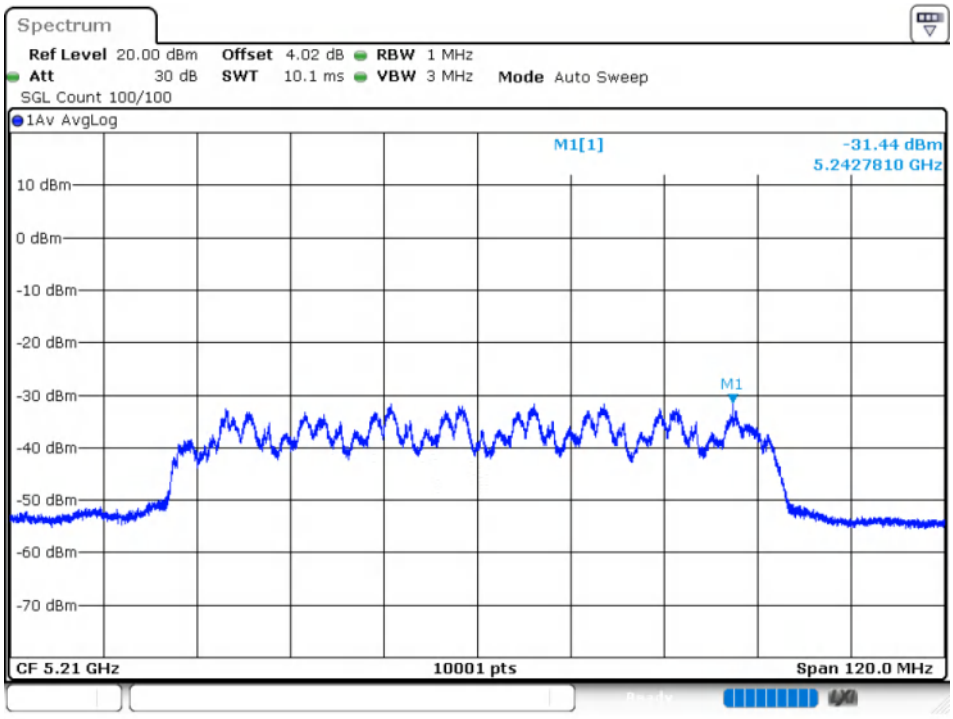
PSD NVNT ac40 5190MHz Ant2



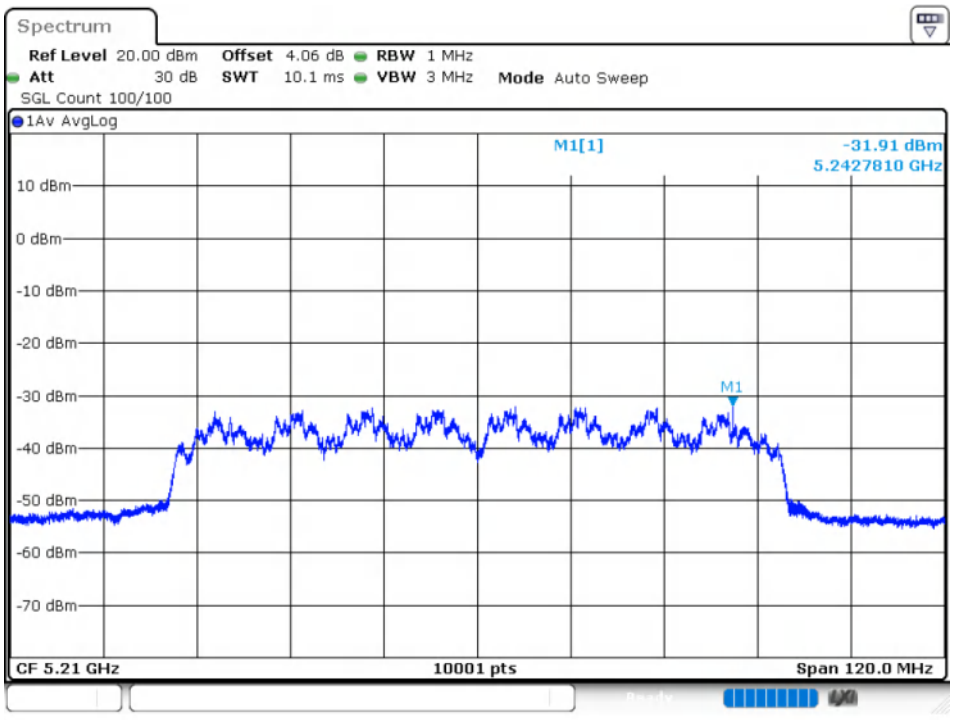
PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant1



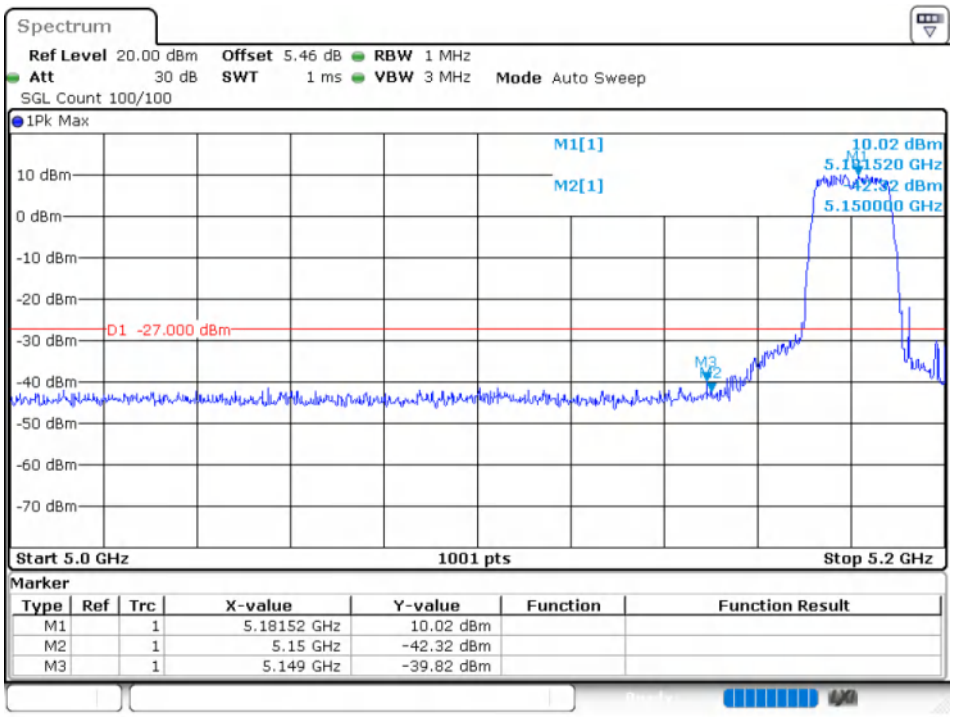
PSD NVNT ac80 5210MHz Ant2



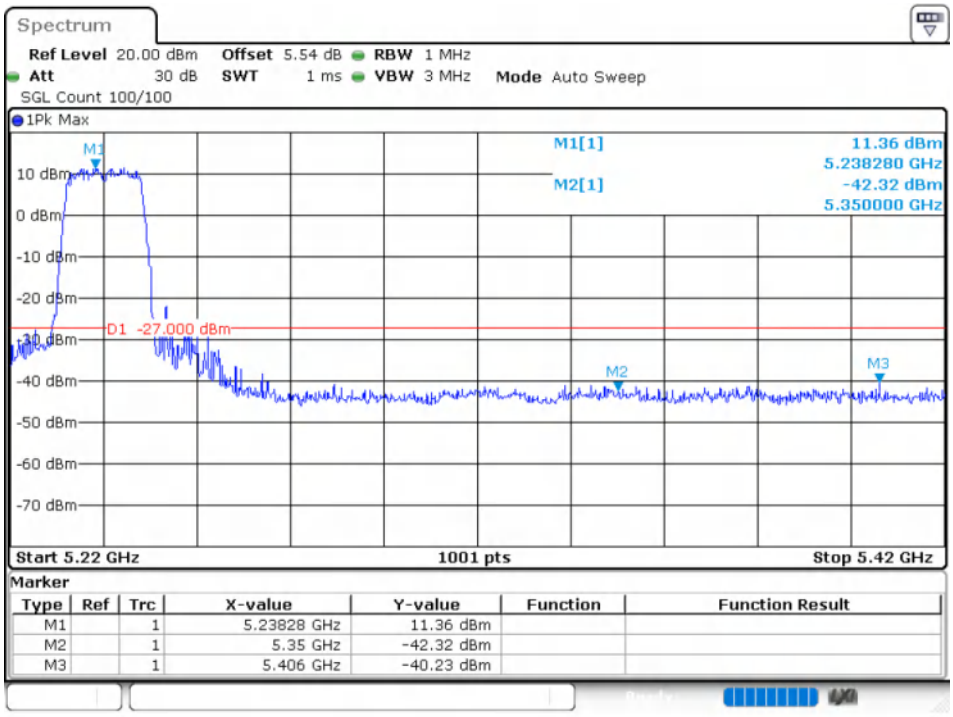
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-39.81	-27	Pass
NVNT	a	5240	Ant1	-40.22	-27	Pass
NVNT	a	5180	Ant2	-39.96	-27	Pass
NVNT	a	5240	Ant2	-40.7	-27	Pass
NVNT	n20	5180	Ant1	-41.08	-27	Pass
NVNT	n20	5240	Ant1	-41.38	-27	Pass
NVNT	n20	5180	Ant2	-39.88	-27	Pass
NVNT	n20	5240	Ant2	-40.52	-27	Pass
NVNT	n40	5190	Ant1	-32.99	-27	Pass
NVNT	n40	5230	Ant1	-40.68	-27	Pass
NVNT	n40	5190	Ant2	-32.23	-27	Pass
NVNT	n40	5230	Ant2	-41.28	-27	Pass
NVNT	ac20	5180	Ant1	-36	-27	Pass
NVNT	ac20	5240	Ant1	-40.63	-27	Pass
NVNT	ac20	5180	Ant2	-38.66	-27	Pass
NVNT	ac20	5240	Ant2	-40.39	-27	Pass
NVNT	ac40	5190	Ant1	-32.89	-27	Pass
NVNT	ac40	5230	Ant1	-41.43	-27	Pass
NVNT	ac40	5190	Ant2	-36.1	-27	Pass
NVNT	ac40	5230	Ant2	-41.93	-27	Pass
NVNT	ac80	5210	Ant1	-33.1	-27	Pass
NVNT	ac80	5210	Ant1	-44.99	-27	Pass
NVNT	ac80	5210	Ant2	-31.81	-27	Pass
NVNT	ac80	5210	Ant2	-43.8	-27	Pass

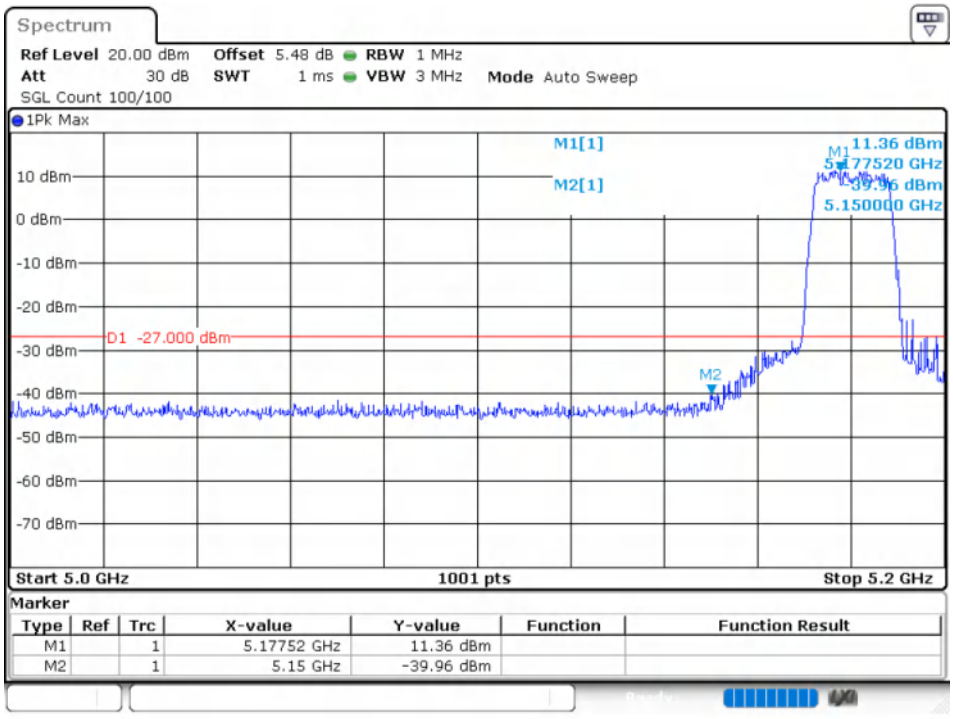
Test Graphs
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1



Band Edge NVNT a 5180MHz Low Ant2



Band Edge NVNT a 5240MHz High Ant2