

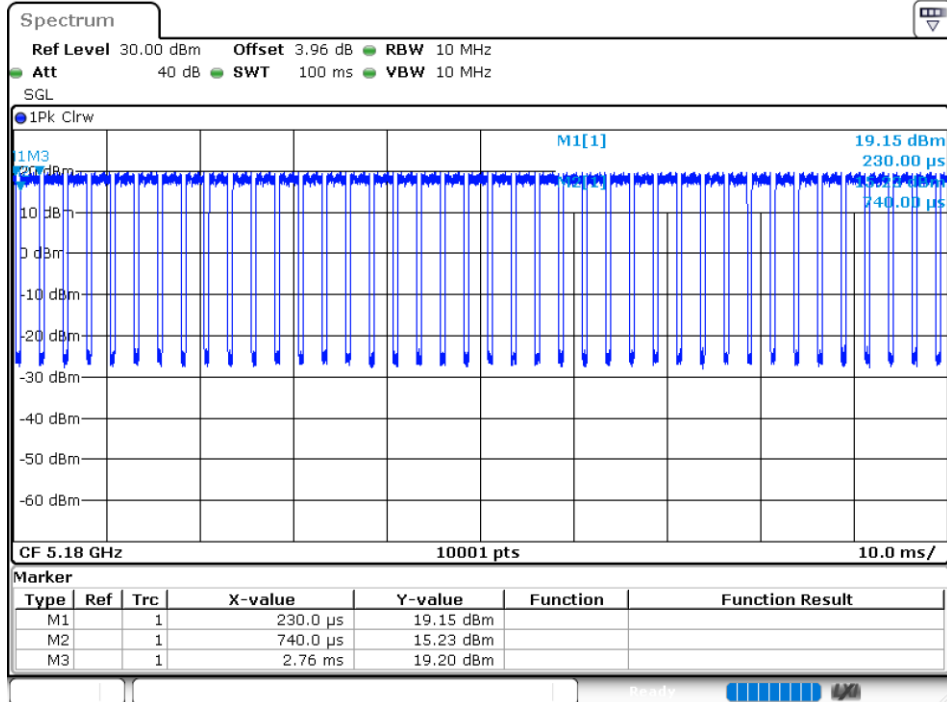
5.2G WIFI

Duty Cycle

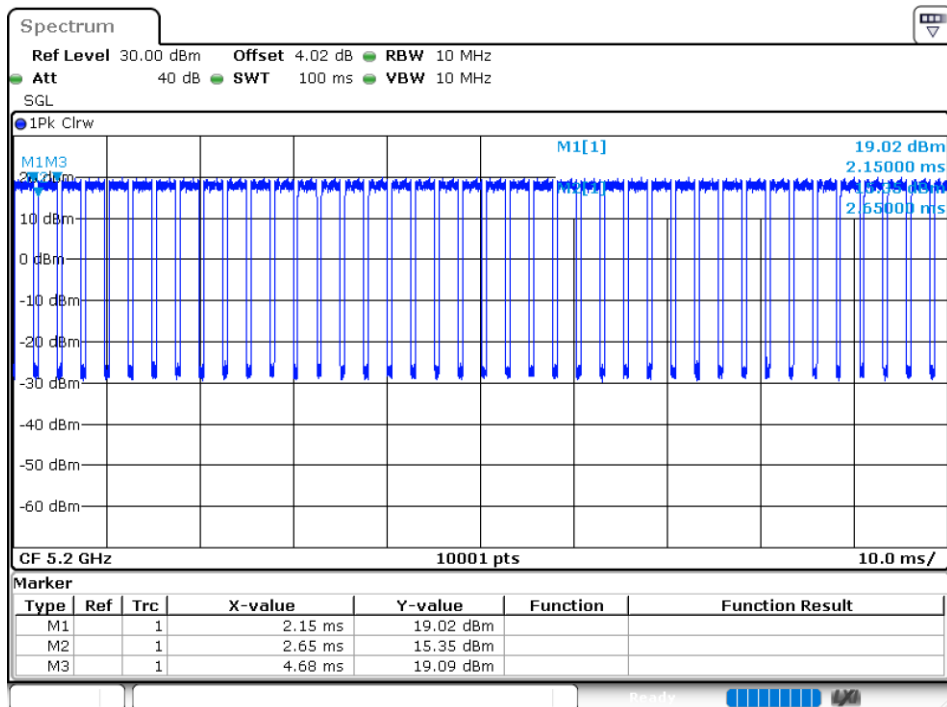
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	80.31	0.95	0.5
NVNT	a	5200	Ant1	80.67	0.93	0.49
NVNT	a	5240	Ant1	80.3	0.95	0.49
NVNT	n20	5180	Ant1	79.33	1.01	0.53
NVNT	n20	5200	Ant1	79.3	1.01	0.53
NVNT	n20	5240	Ant1	79.36	1	0.53
NVNT	n40	5190	Ant1	65.55	1.83	1.09
NVNT	n40	5230	Ant1	65.5	1.84	1.09

Test Graphs

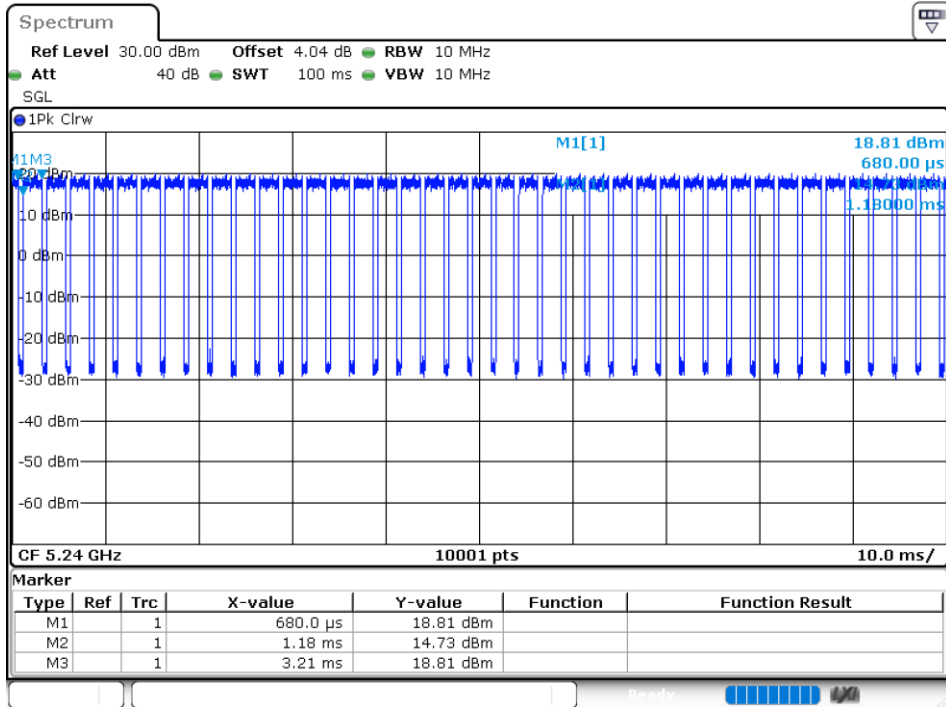
Duty Cycle NVNT a 5180MHz Ant1



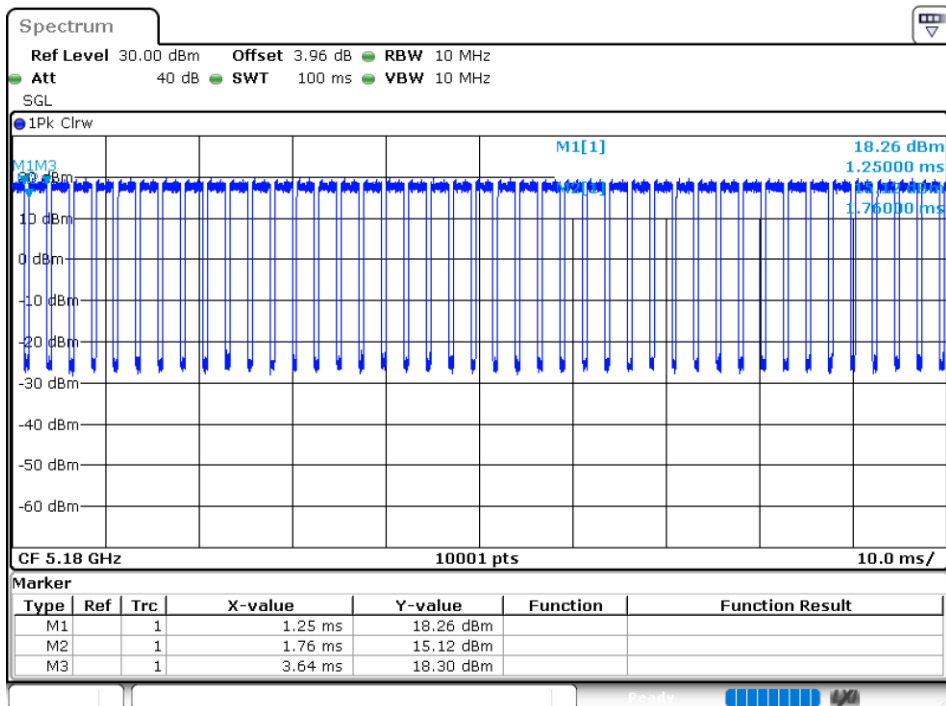
Duty Cycle NVNT a 5200MHz Ant1



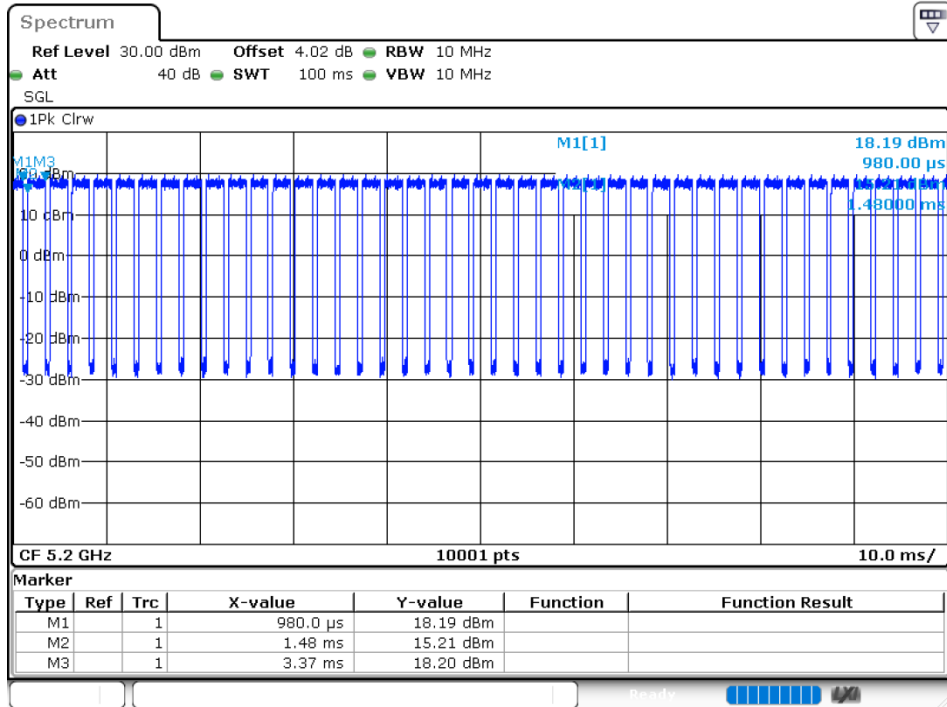
Duty Cycle NVNT a 5240MHz Ant1



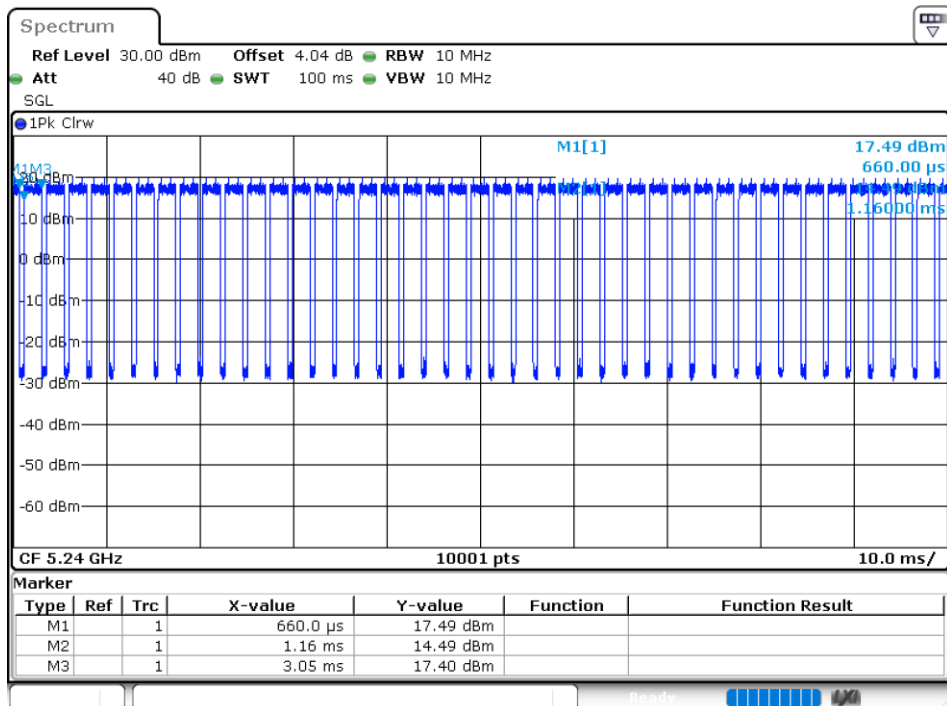
Duty Cycle NVNT n20 5180MHz Ant1



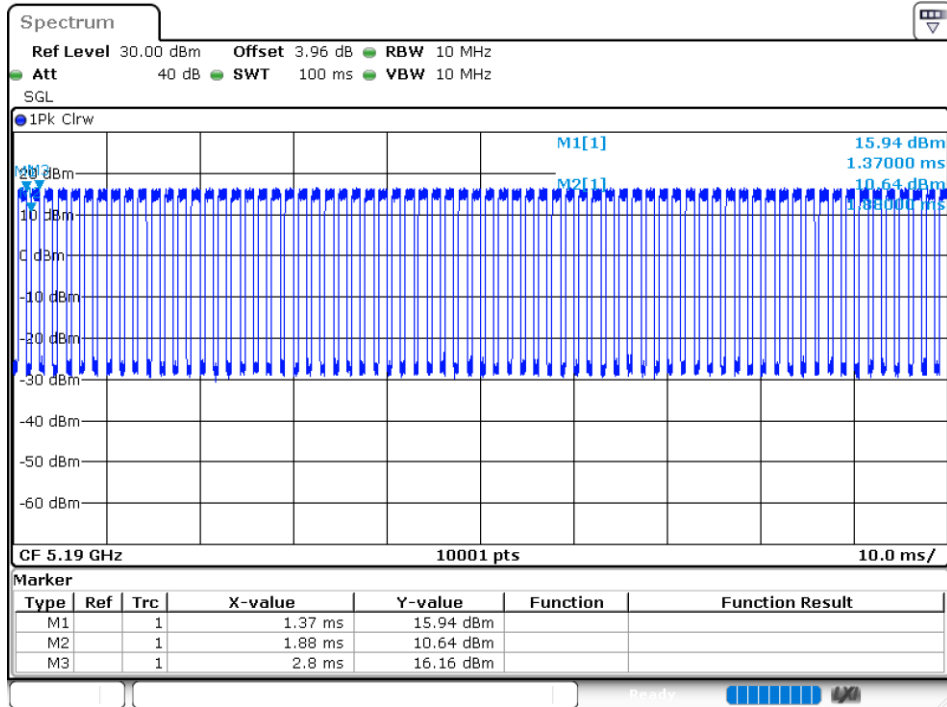
Duty Cycle NVNT n20 5200MHz Ant1



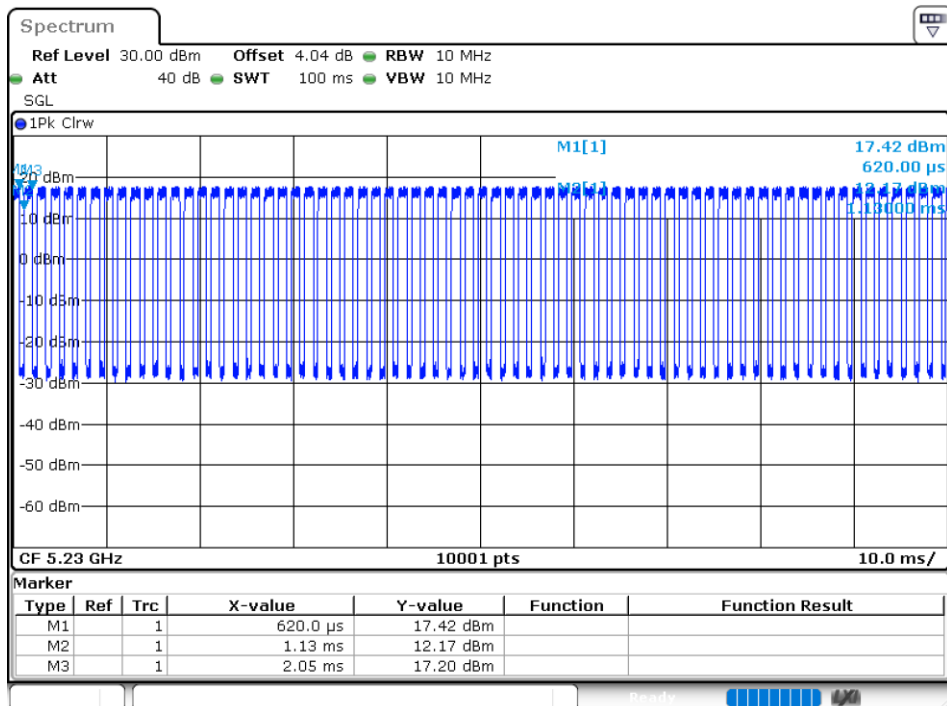
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

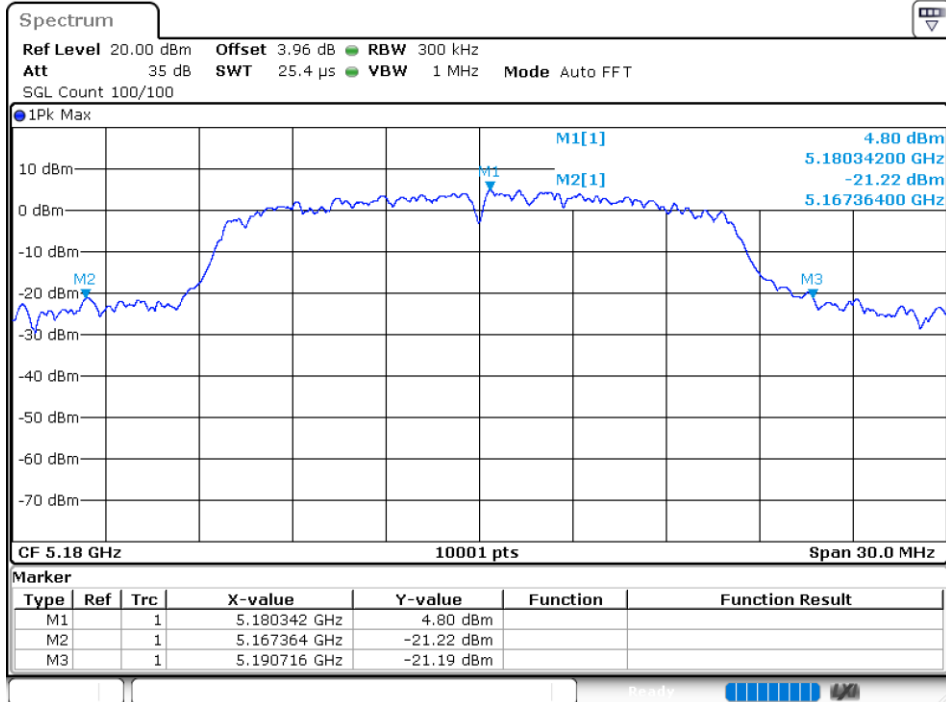
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	14.62	24	Pass
NVNT	a	5200	Ant1	14.48	24	Pass
NVNT	a	5240	Ant1	14.23	24	Pass
NVNT	n20	5180	Ant1	14.46	24	Pass
NVNT	n20	5200	Ant1	14.34	24	Pass
NVNT	n20	5240	Ant1	13.99	24	Pass
NVNT	n40	5190	Ant1	12.81	24	Pass
NVNT	n40	5230	Ant1	14.34	24	Pass

-26dB Bandwidth

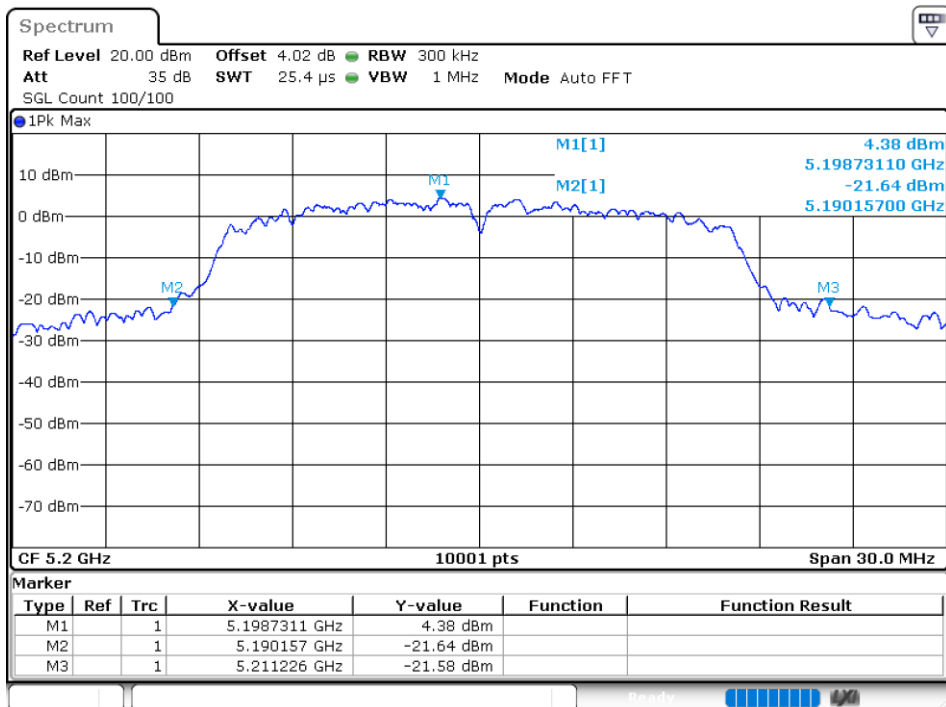
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.352	Pass
NVNT	a	5200	Ant1	21.069	Pass
NVNT	a	5240	Ant1	20.415	Pass
NVNT	n20	5180	Ant1	23.586	Pass
NVNT	n20	5200	Ant1	25.335	Pass
NVNT	n20	5240	Ant1	20.607	Pass
NVNT	n40	5190	Ant1	38.328	Pass
NVNT	n40	5230	Ant1	51.462	Pass

Test Graphs

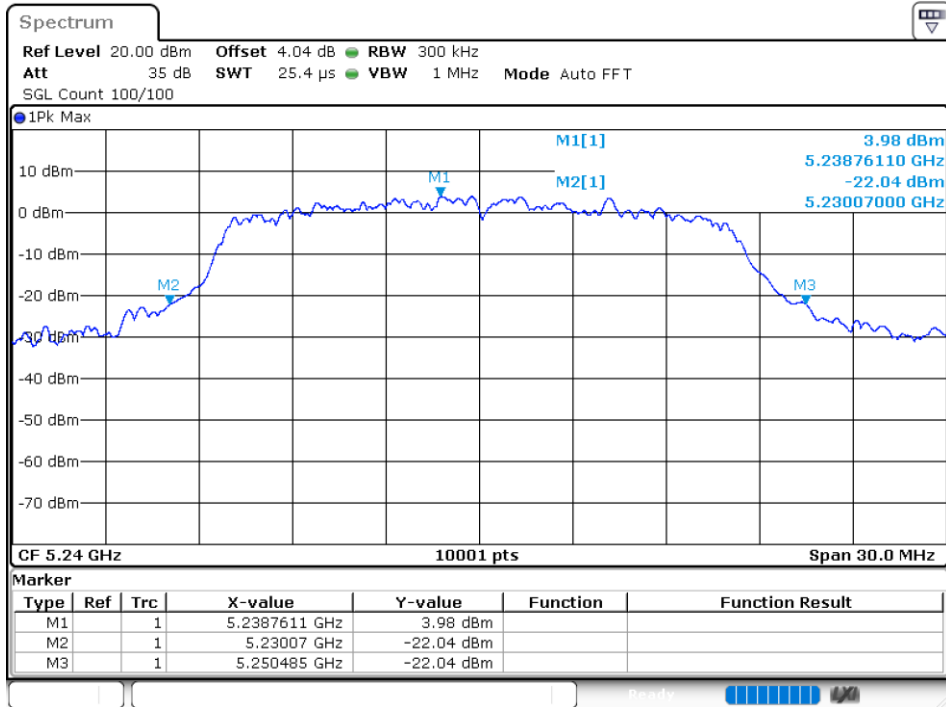
-26dB Bandwidth NVNT a 5180MHz Ant1



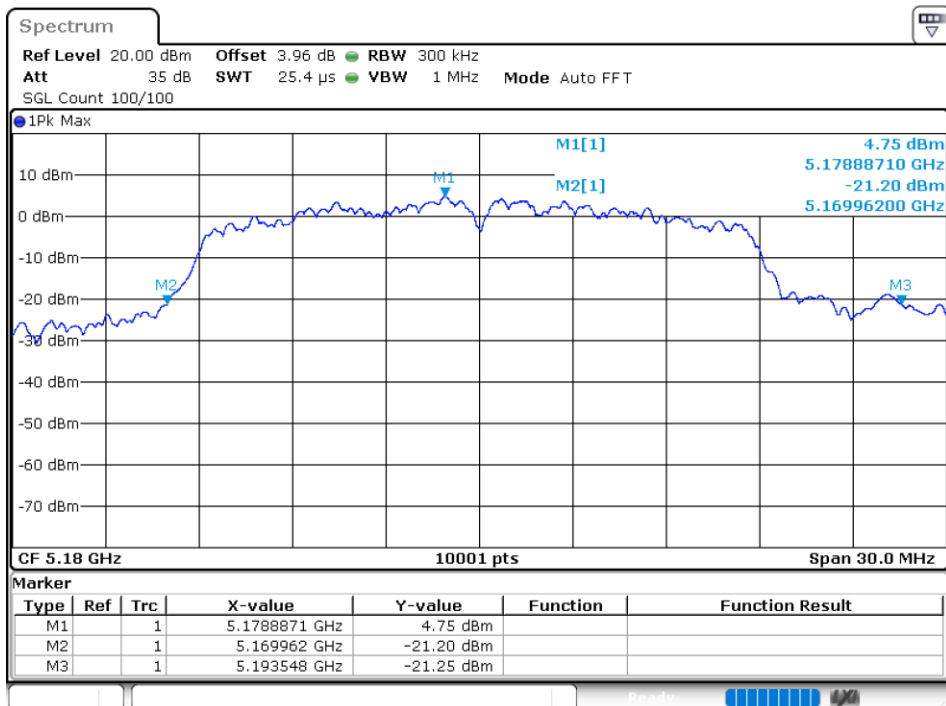
-26dB Bandwidth NVNT a 5200MHz Ant1



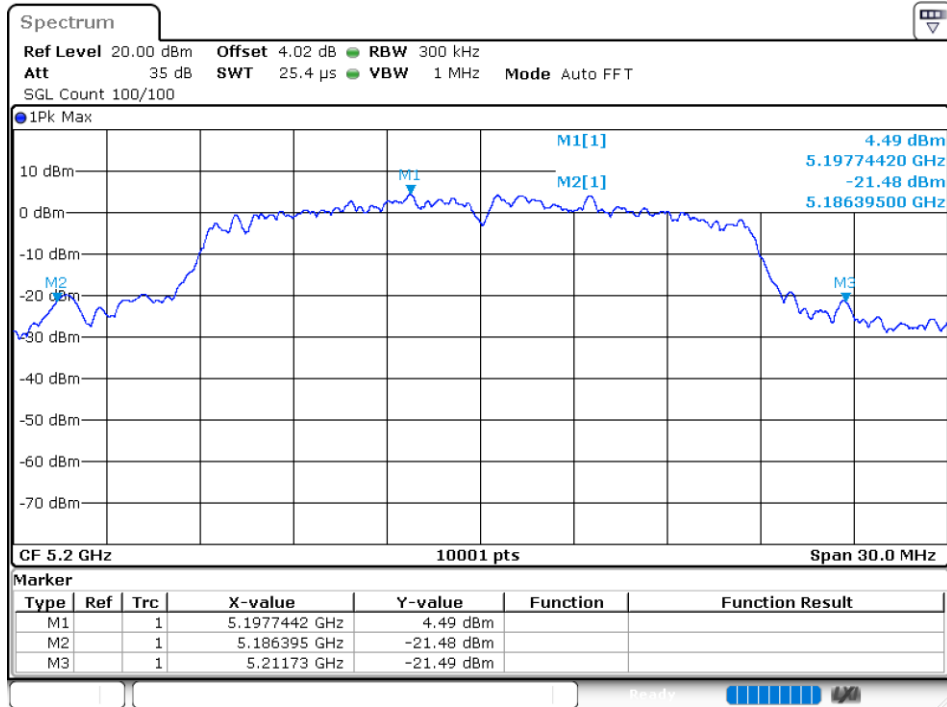
-26dB Bandwidth NVNT a 5240MHz Ant1



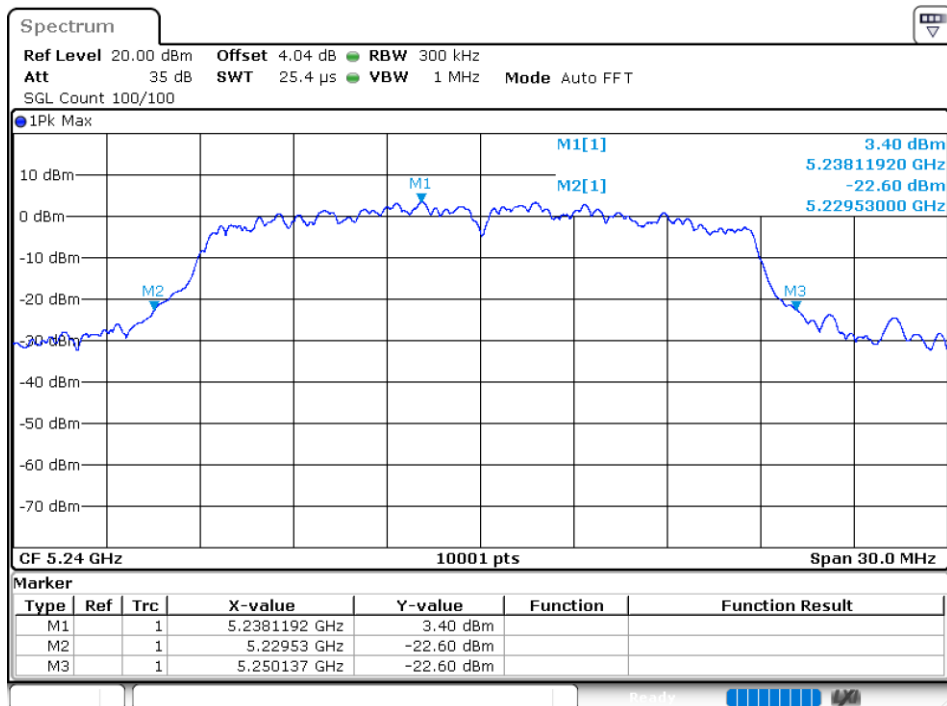
-26dB Bandwidth NVNT n20 5180MHz Ant1



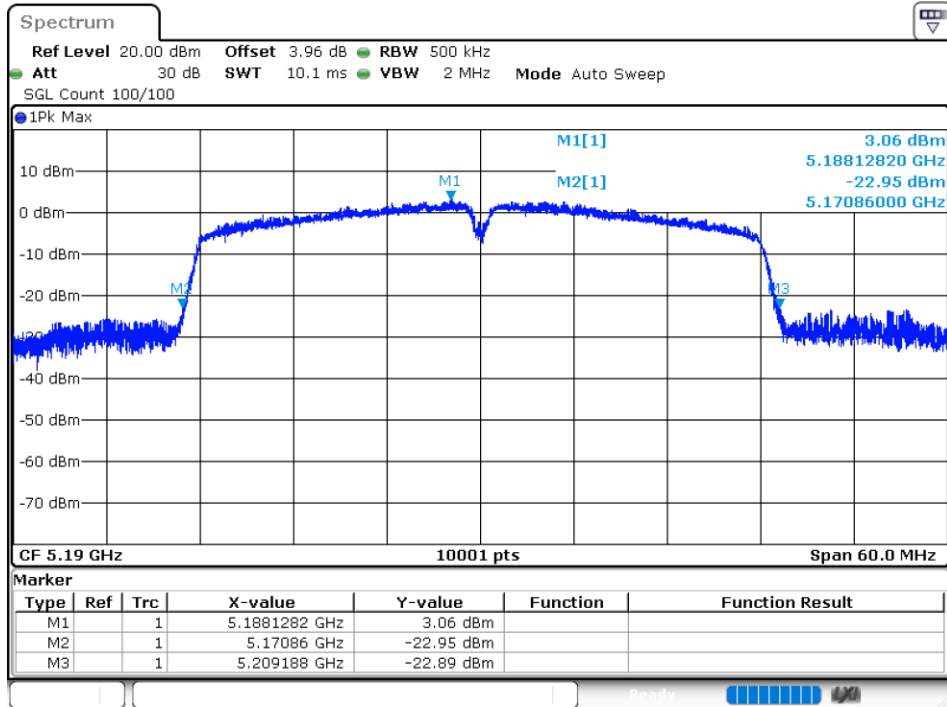
-26dB Bandwidth NVNT n20 5200MHz Ant1



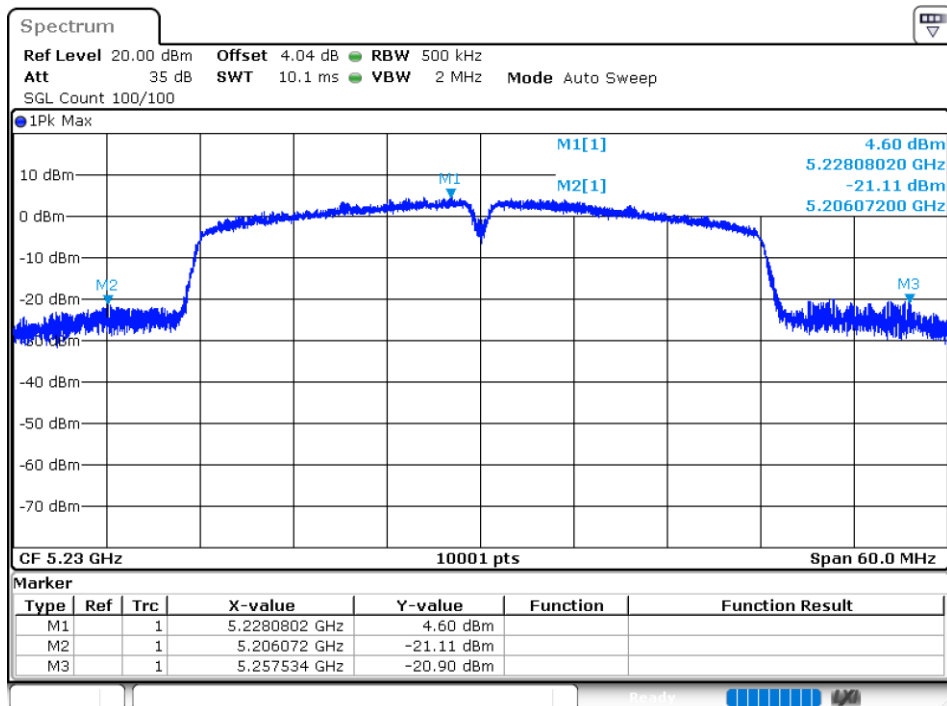
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

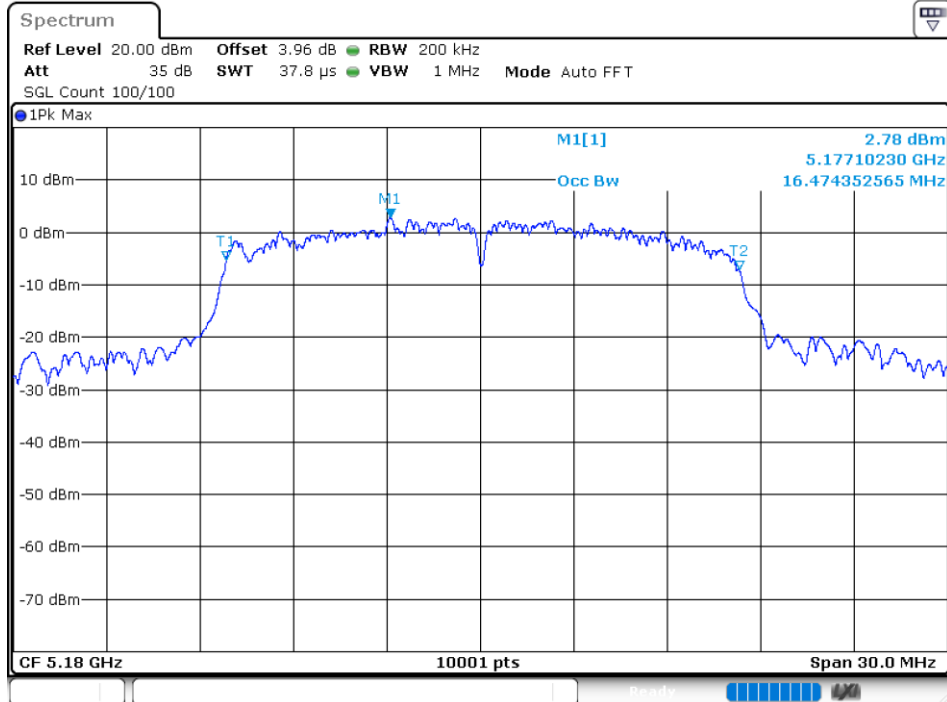


Occupied Channel Bandwidth

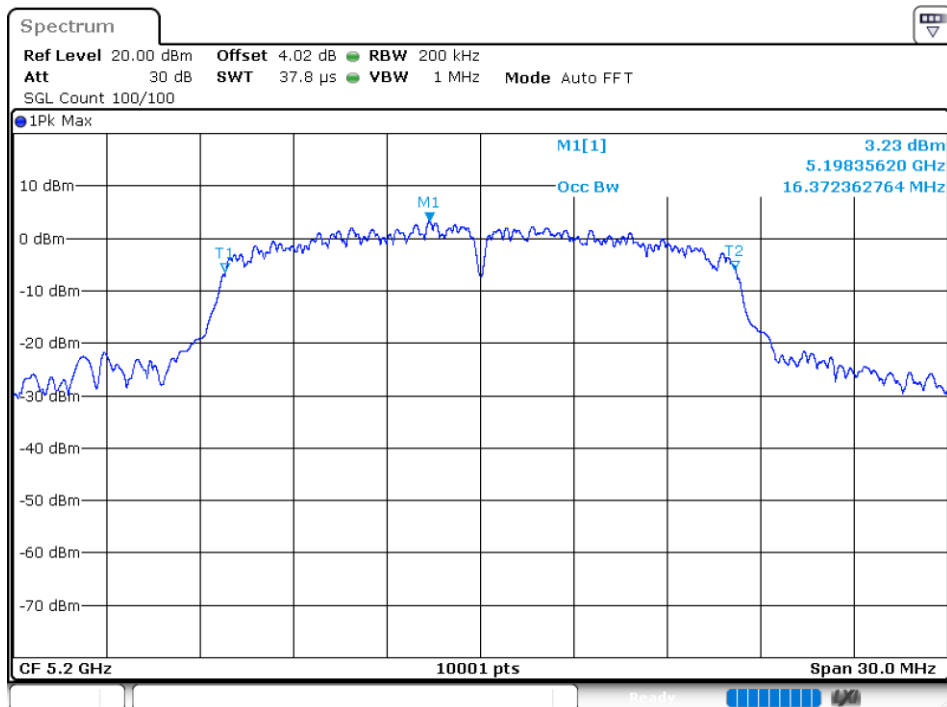
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.474
NVNT	a	5200	Ant1	16.372
NVNT	a	5240	Ant1	16.297
NVNT	n20	5180	Ant1	17.488
NVNT	n20	5200	Ant1	17.512
NVNT	n20	5240	Ant1	17.356
NVNT	n40	5190	Ant1	35.318
NVNT	n40	5230	Ant1	35.408

Test Graphs

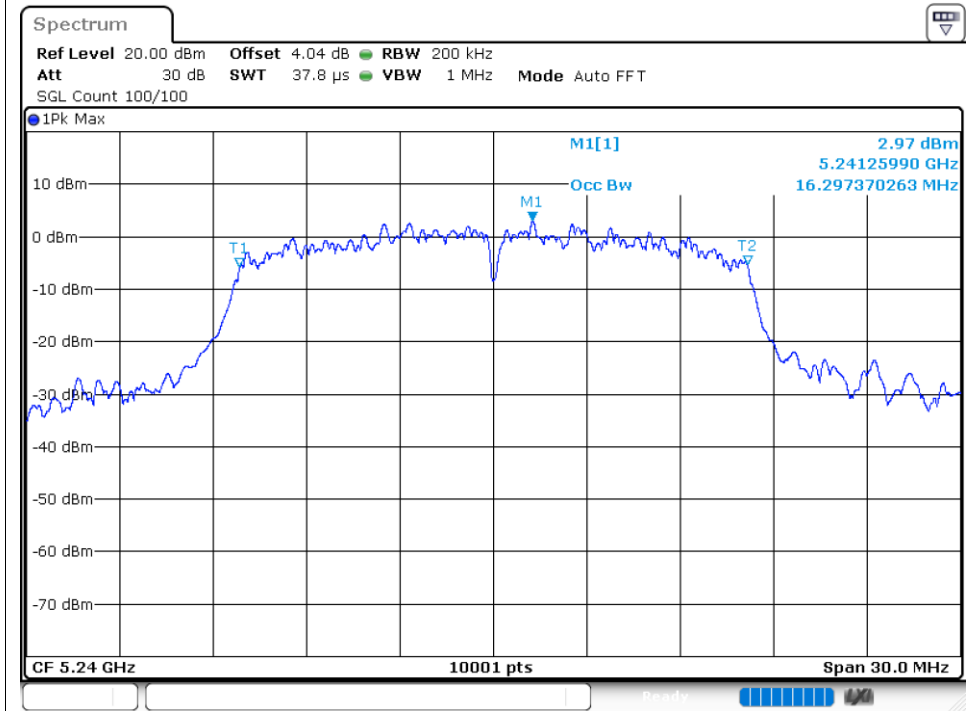
OBW NVNT a 5180MHz Ant1



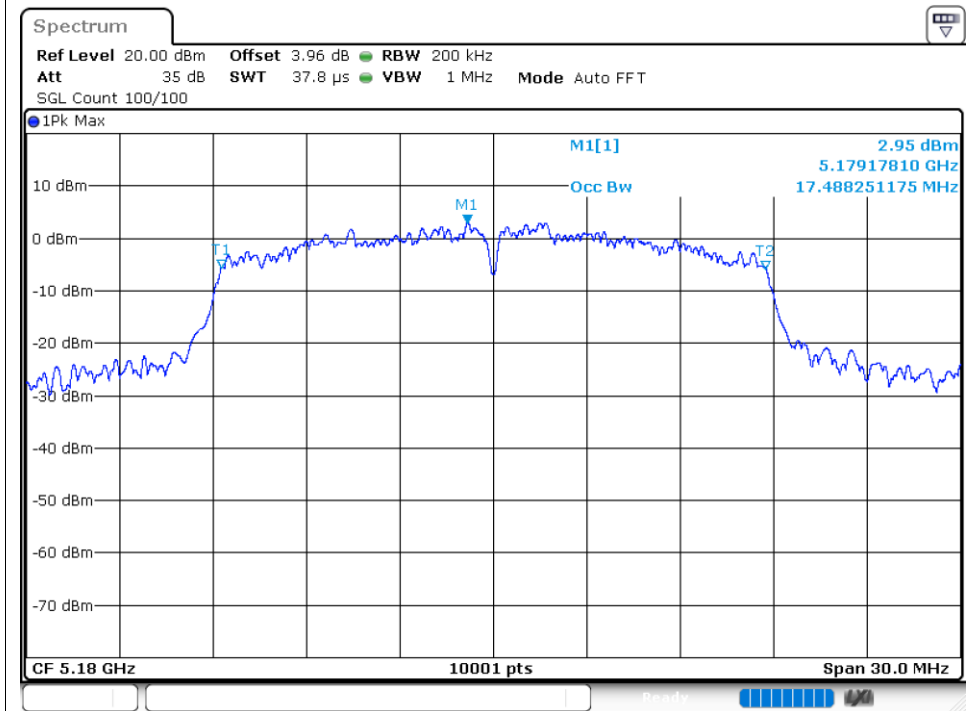
OBW NVNT a 5200MHz Ant1



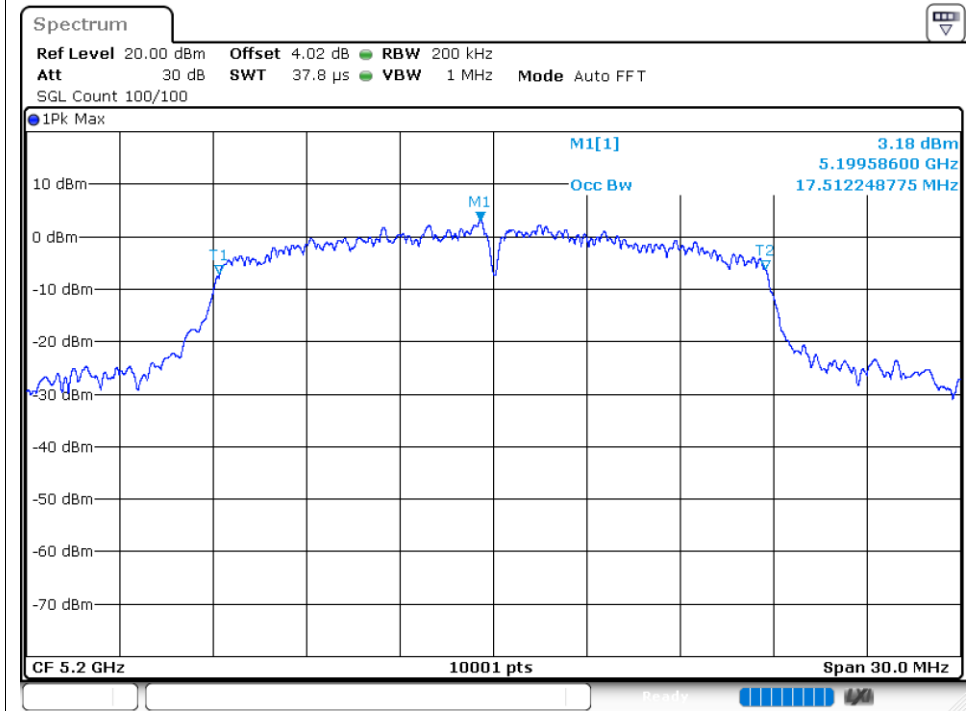
OBW NVNT a 5240MHz Ant1



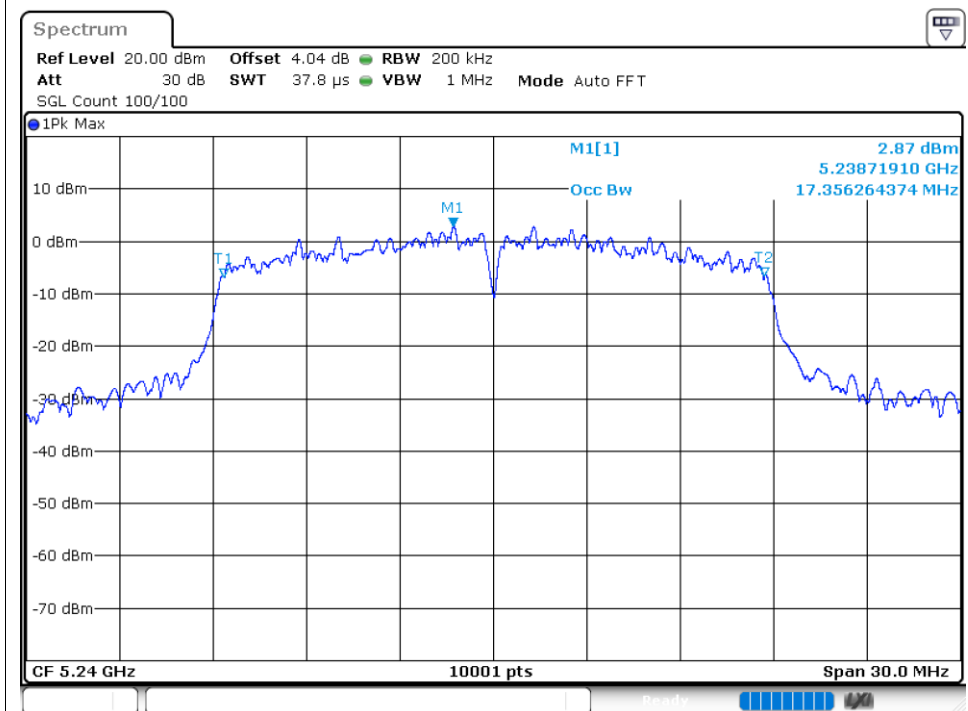
OBW NVNT n20 5180MHz Ant1



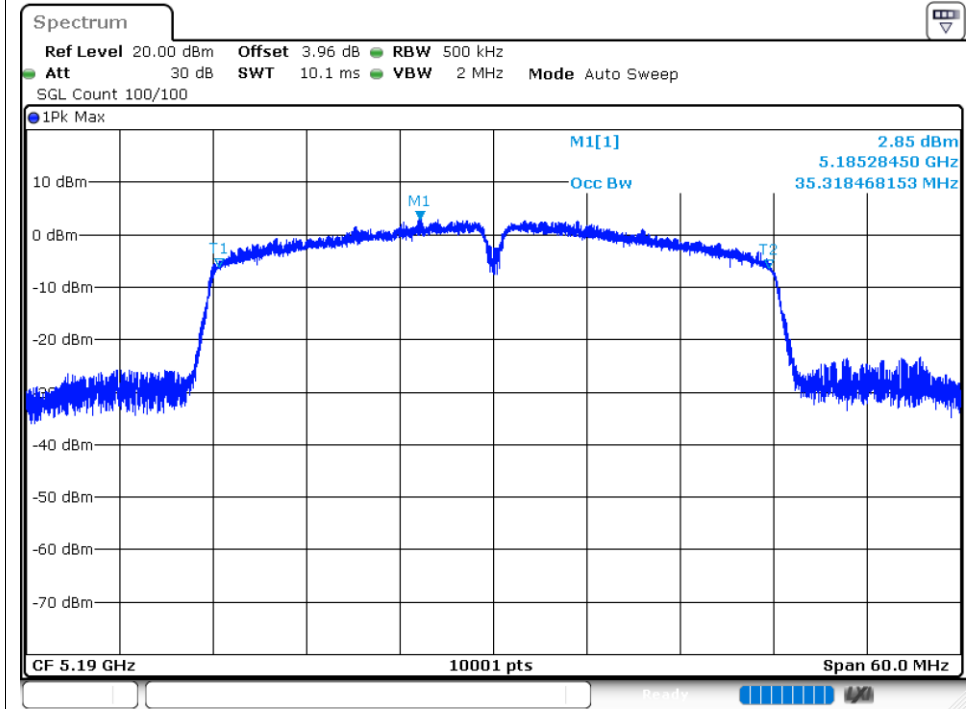
OBW NVNT n20 5200MHz Ant1



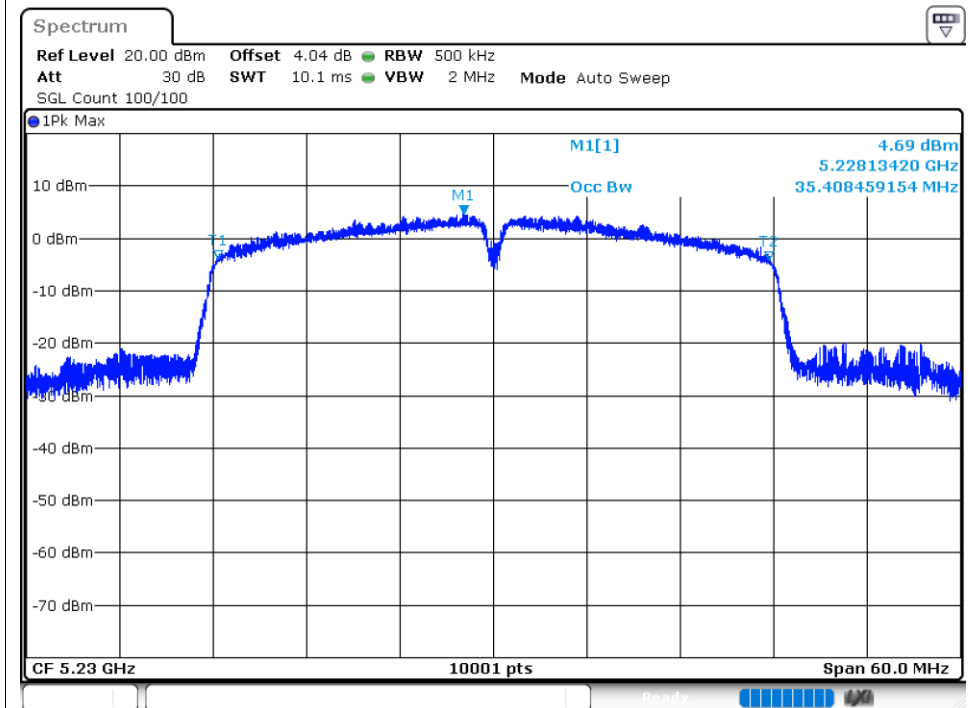
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1

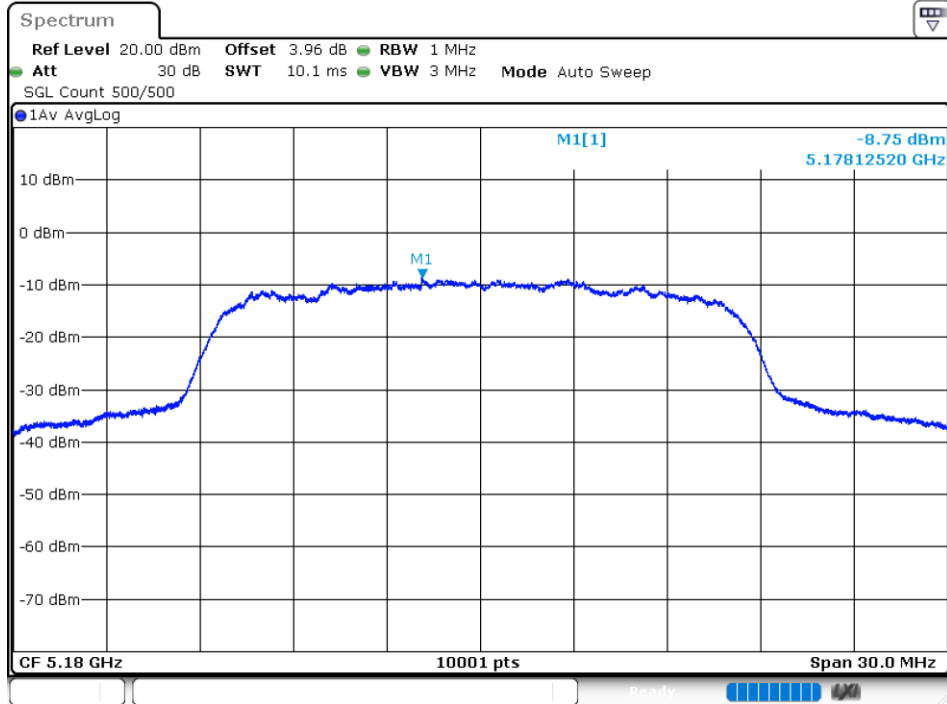


Maximum Power Spectral Density Level

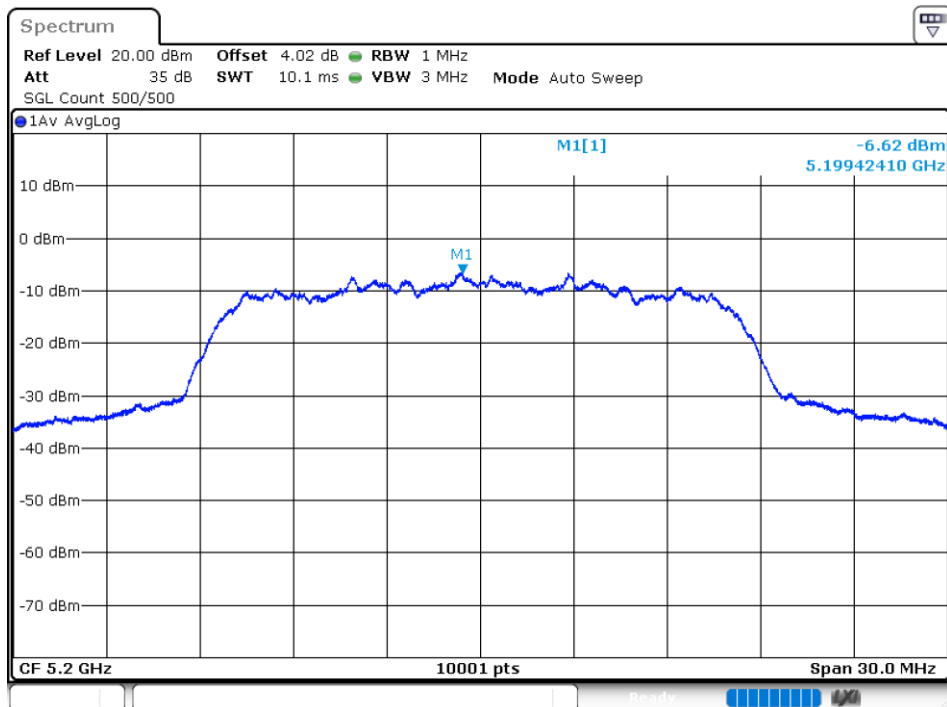
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-8.75	0.95	-7.8	11	Pass
NVNT	a	5200	Ant1	-6.62	0.93	-5.69	11	Pass
NVNT	a	5240	Ant1	-7.57	0.95	-6.62	11	Pass
NVNT	n20	5180	Ant1	-8.17	1.01	-7.16	11	Pass
NVNT	n20	5200	Ant1	-7.37	1.01	-6.36	11	Pass
NVNT	n20	5240	Ant1	-7.1	1	-6.1	11	Pass
NVNT	n40	5190	Ant1	-18.71	1.83	-16.88	11	Pass
NVNT	n40	5230	Ant1	-19.2	1.84	-17.36	11	Pass

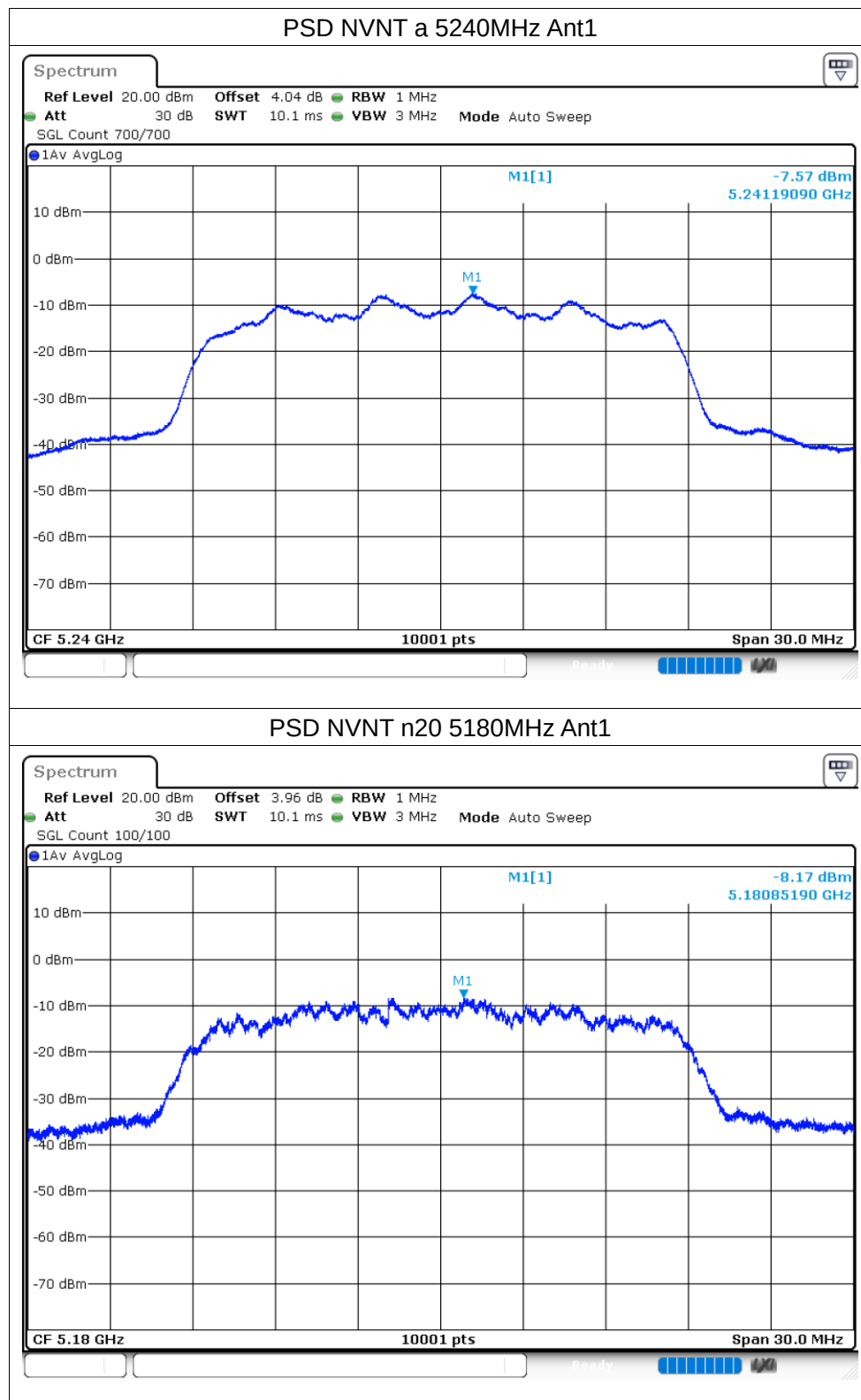
Test Graphs

PSD NVNT a 5180MHz Ant1

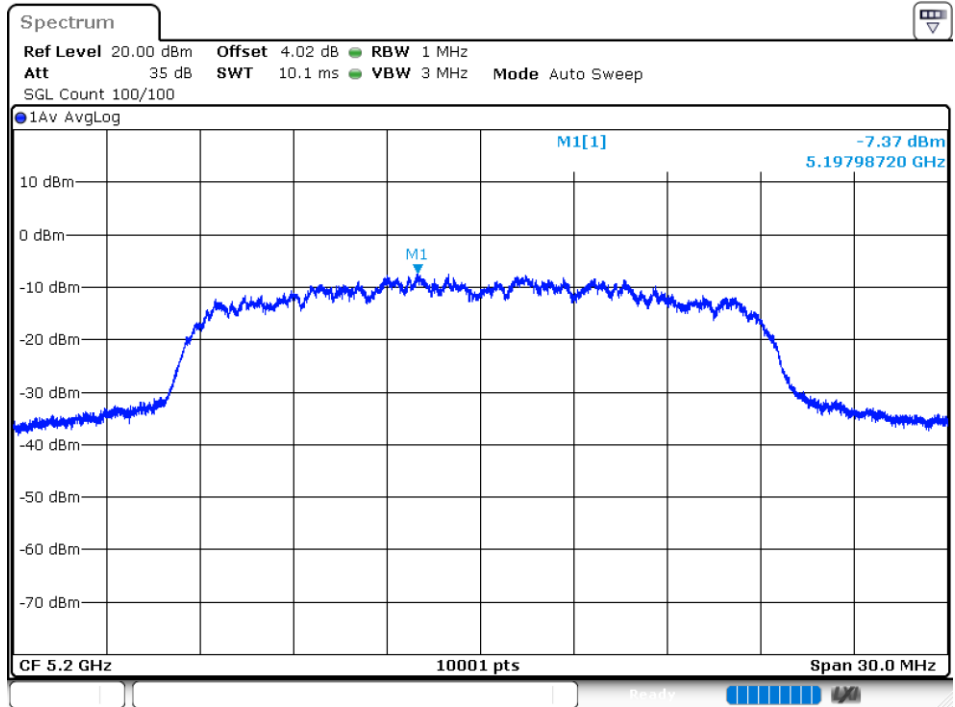


PSD NVNT a 5200MHz Ant1

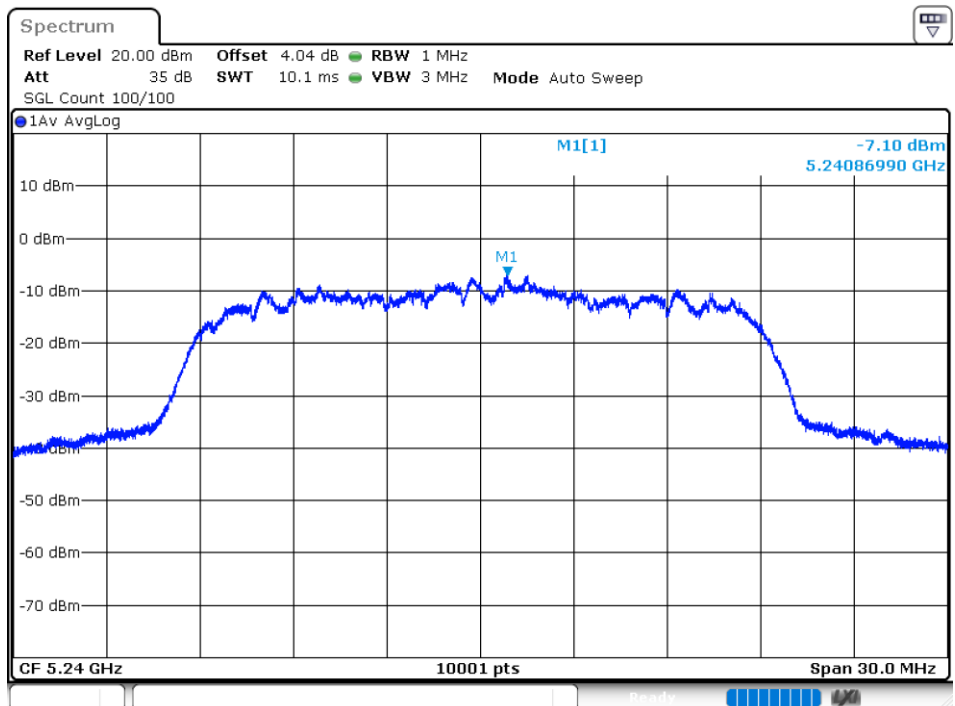




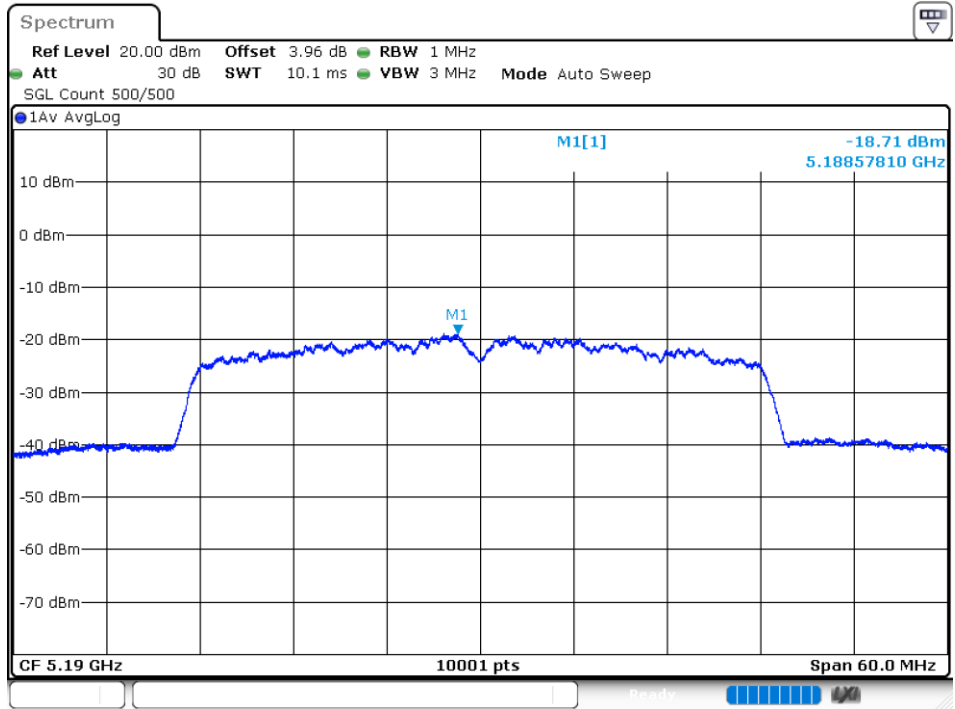
PSD NVNT n20 5200MHz Ant1



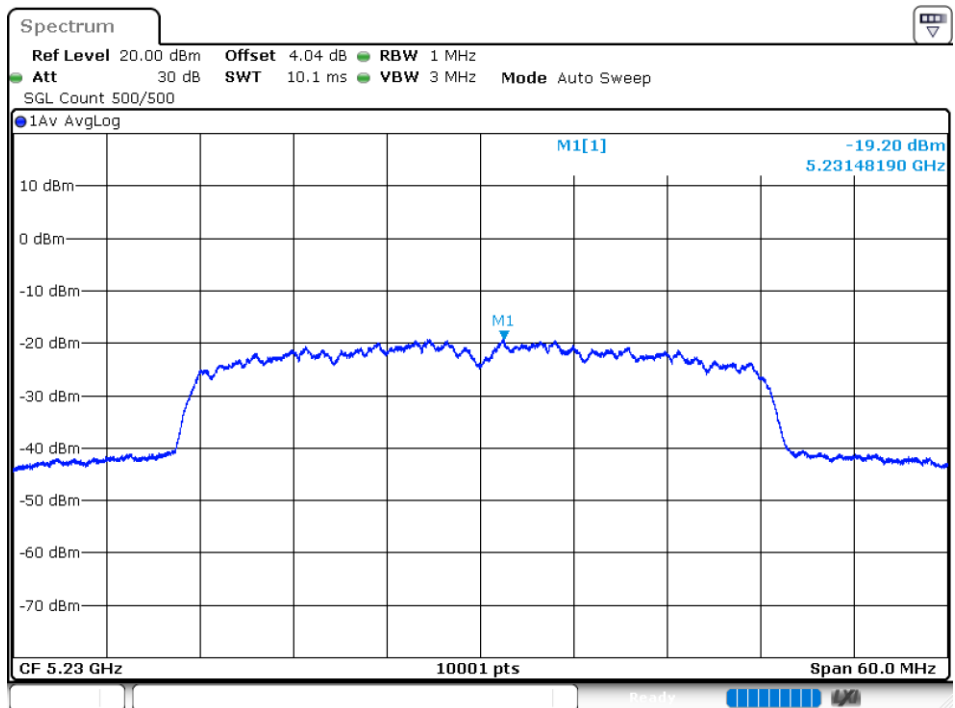
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



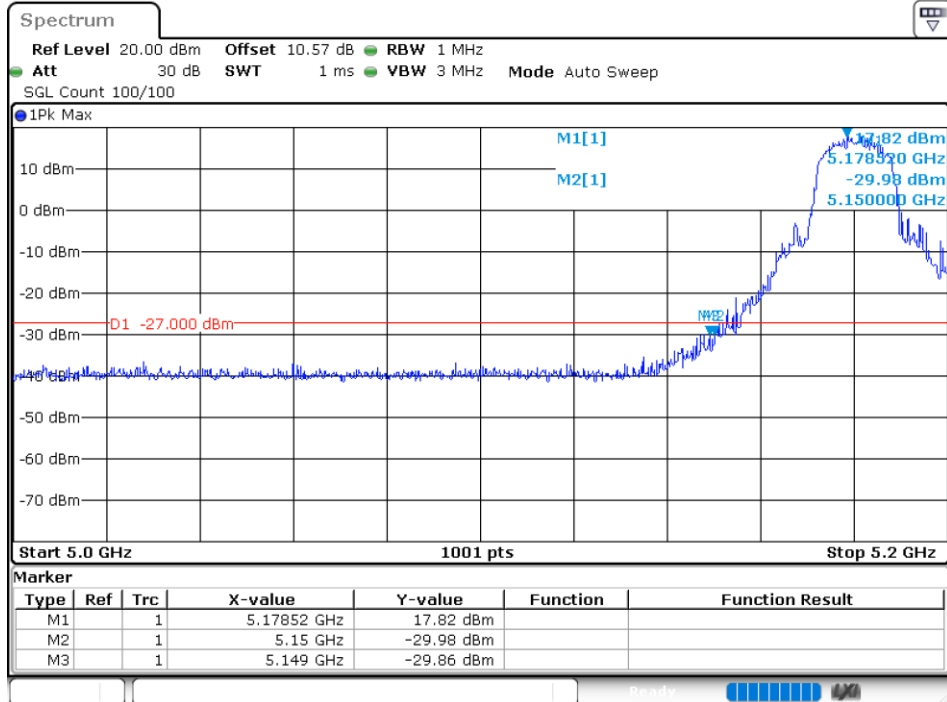
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-29.86	-27	Pass
NVNT	a	5240	Ant1	-41.01	-27	Pass
NVNT	n20	5180	Ant1	-28.69	-27	Pass
NVNT	n20	5240	Ant1	-35.66	-27	Pass
NVNT	n40	5190	Ant1	-27.22	-27	Pass
NVNT	n40	5230	Ant1	-36.59	-27	Pass

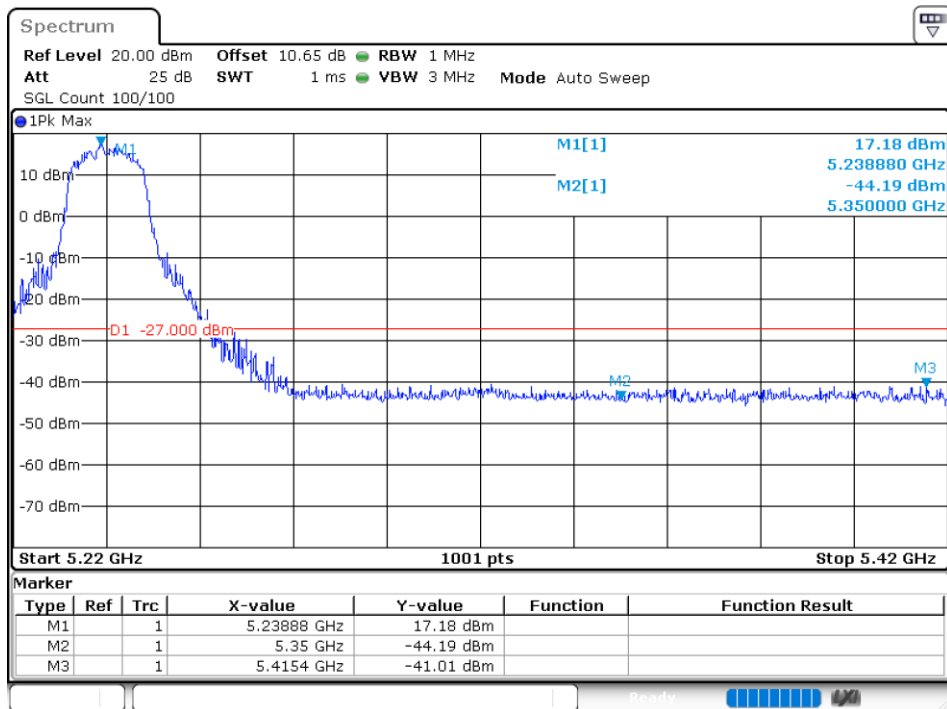
Note: Tested with increased antenna gain.

Test Graphs

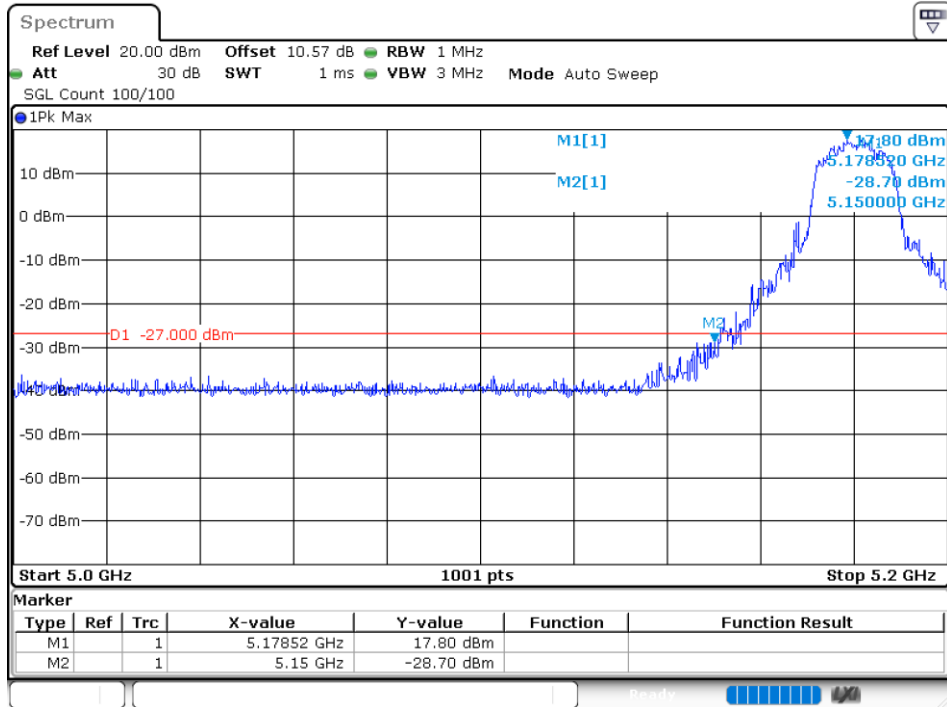
Band Edge NVNT a 5180MHz Low Ant1



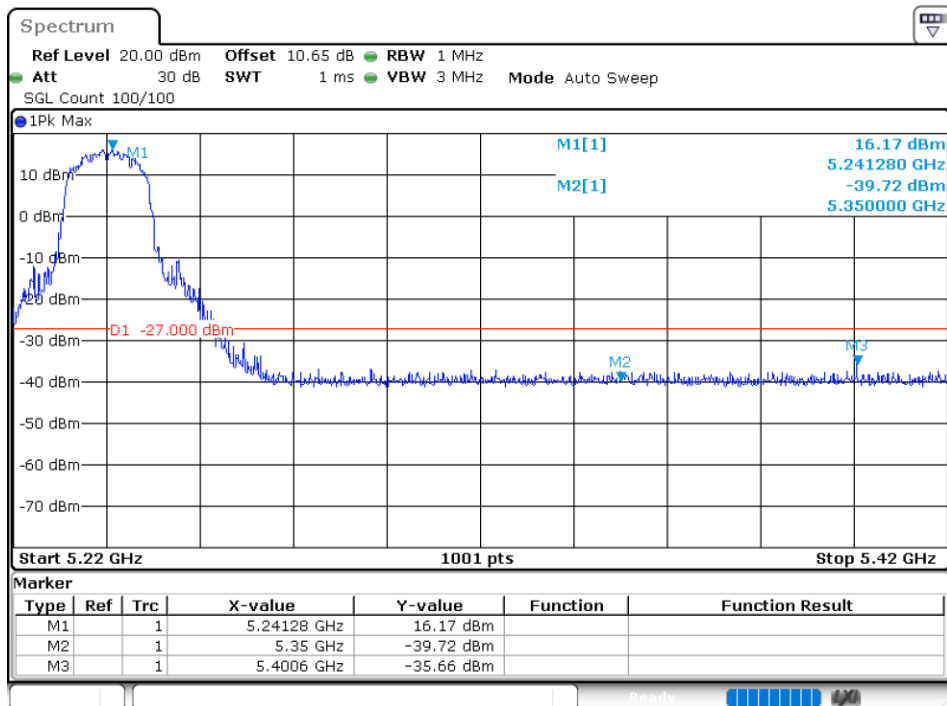
Band Edge NVNT a 5240MHz High Ant1



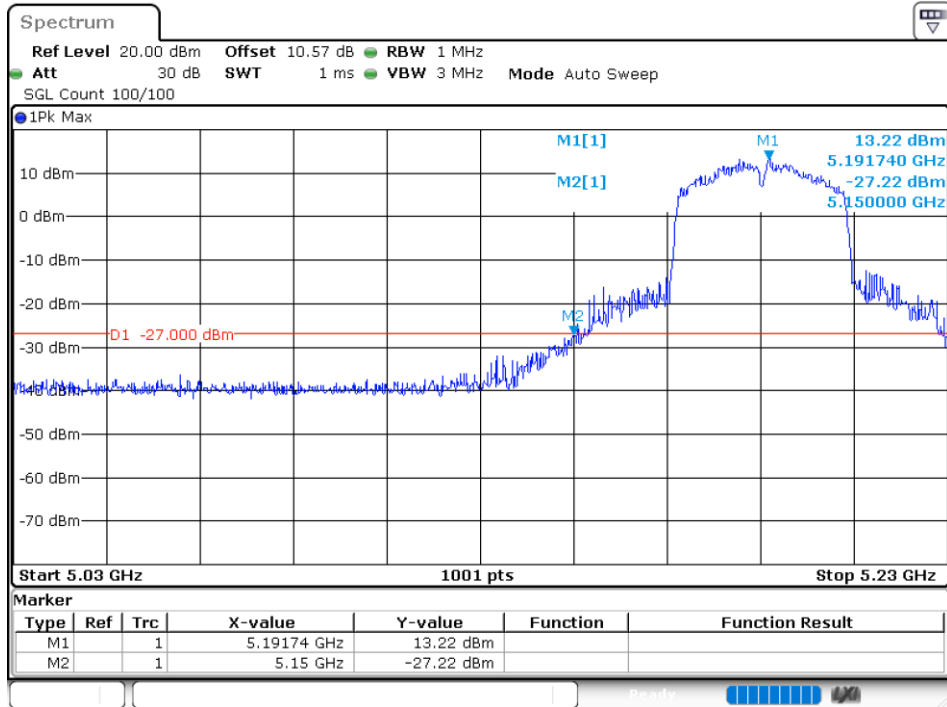
Band Edge NVNT n20 5180MHz Low Ant1



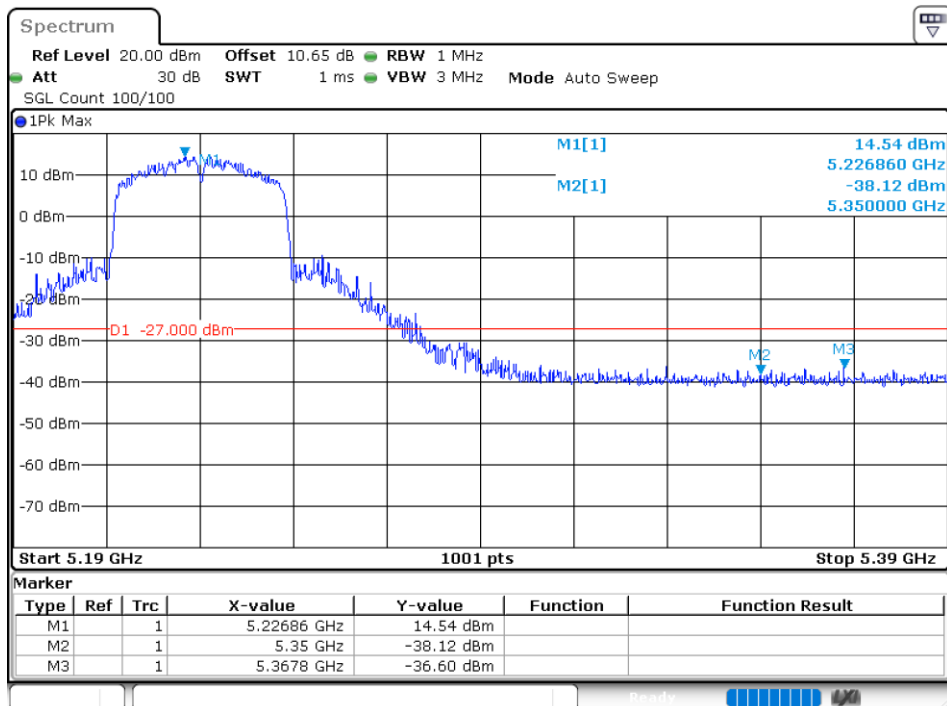
Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1



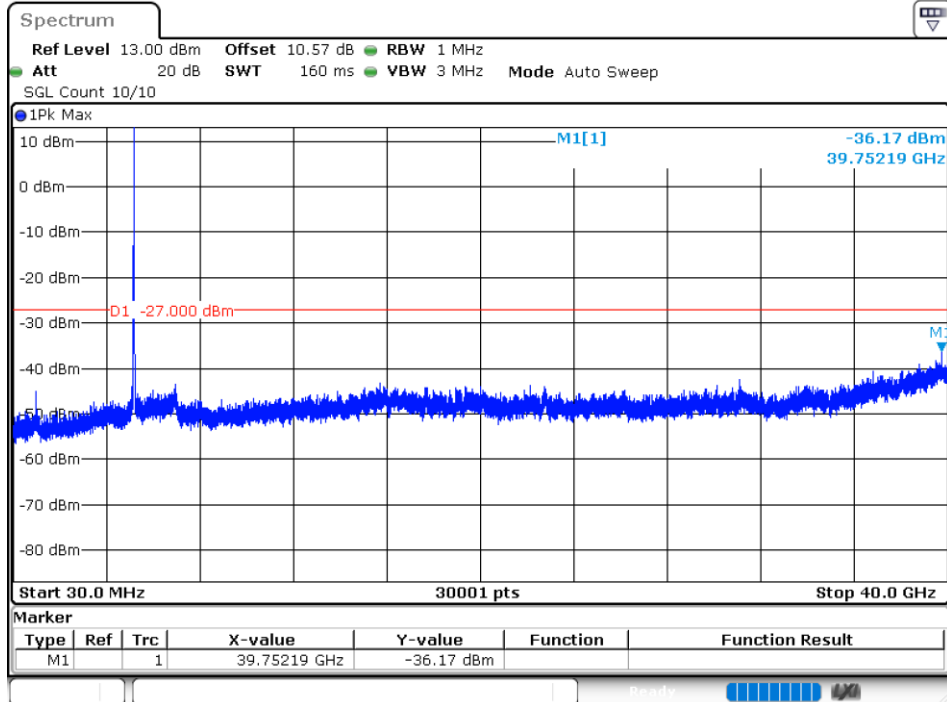
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-36.16	-27	Pass
NVNT	a	5200	Ant1	-27.71	-27	Pass
NVNT	a	5240	Ant1	-28.6	-27	Pass
NVNT	n20	5180	Ant1	-27.46	-27	Pass
NVNT	n20	5200	Ant1	-27.01	-27	Pass
NVNT	n20	5240	Ant1	-27.84	-27	Pass
NVNT	n40	5190	Ant1	-28.48	-27	Pass
NVNT	n40	5230	Ant1	-27.9	-27	Pass

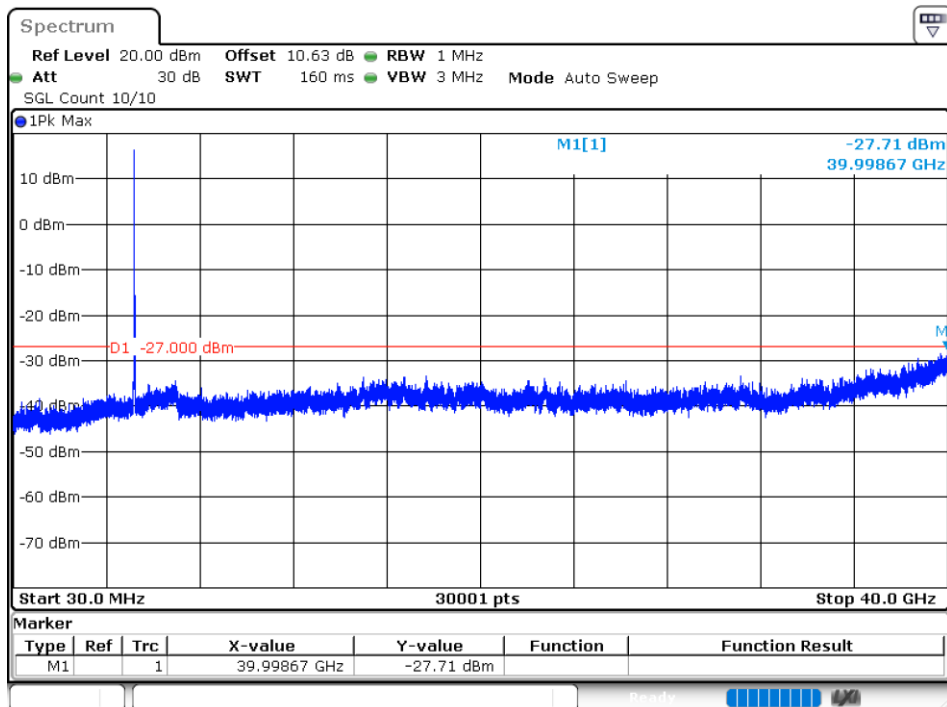
Note: Tested with increased antenna gain.

Test Graphs

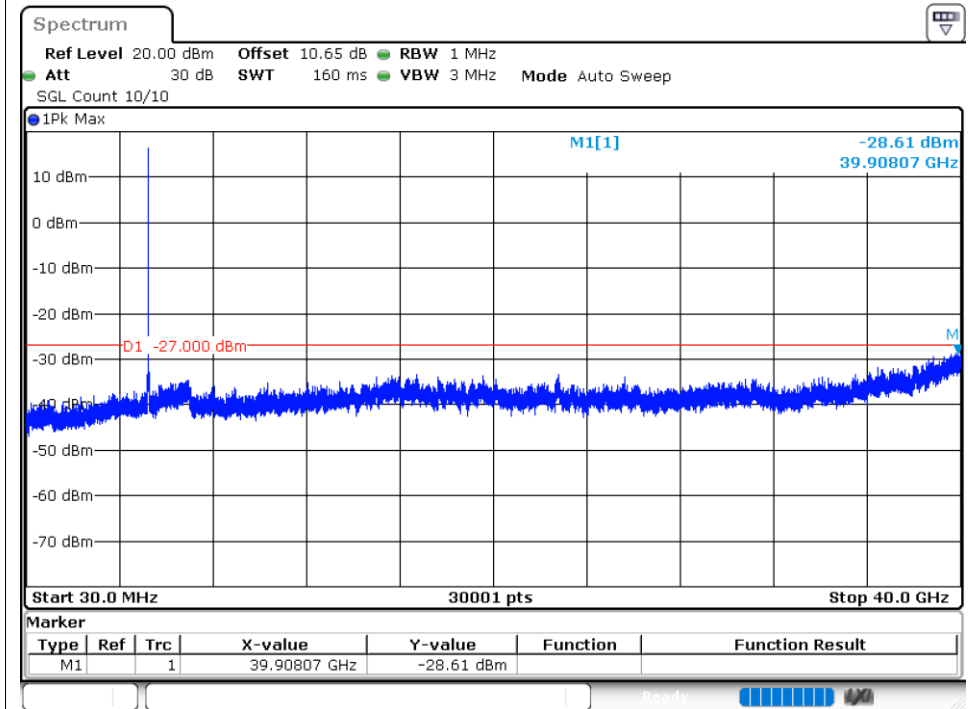
Tx. Spurious NVNT a 5180MHz Ant1 Emission



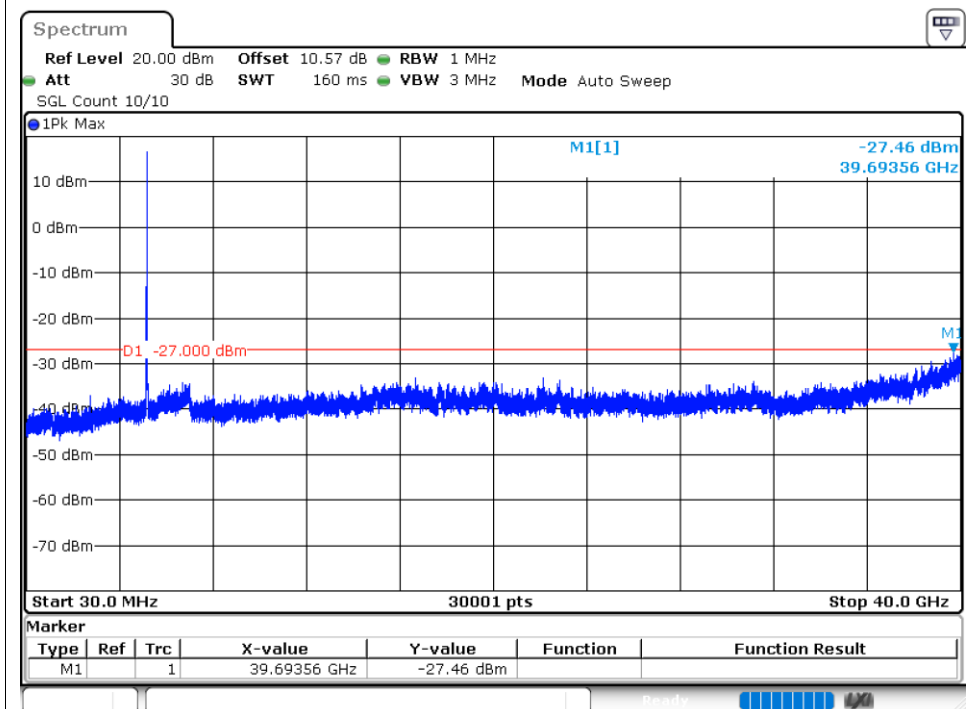
Tx. Spurious NVNT a 5200MHz Ant1 Emission



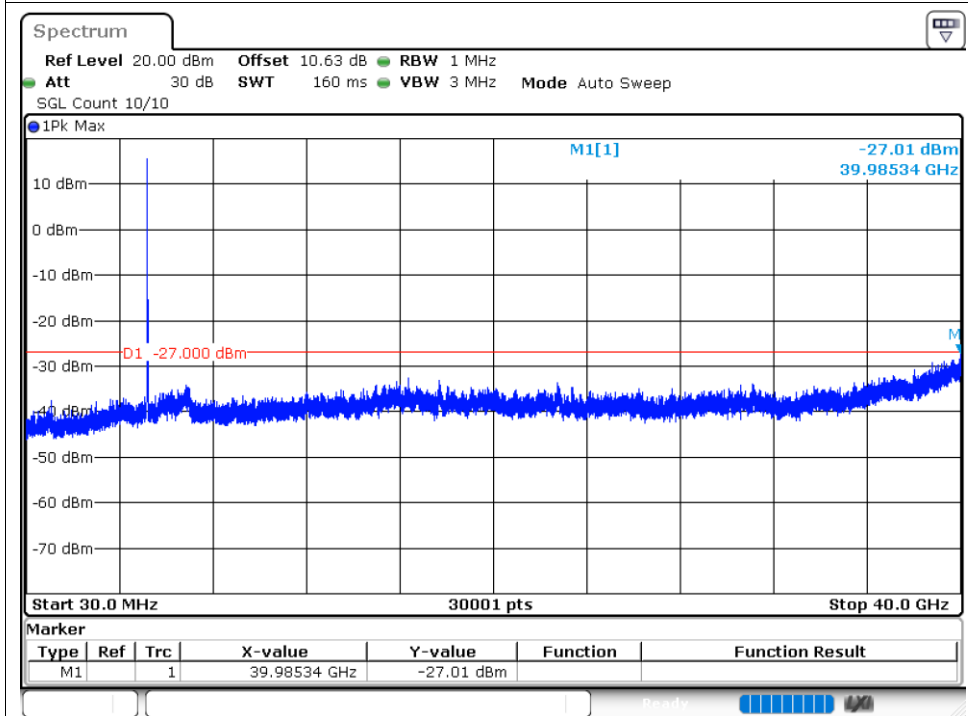
Tx. Spurious NVNT a 5240MHz Ant1 Emission



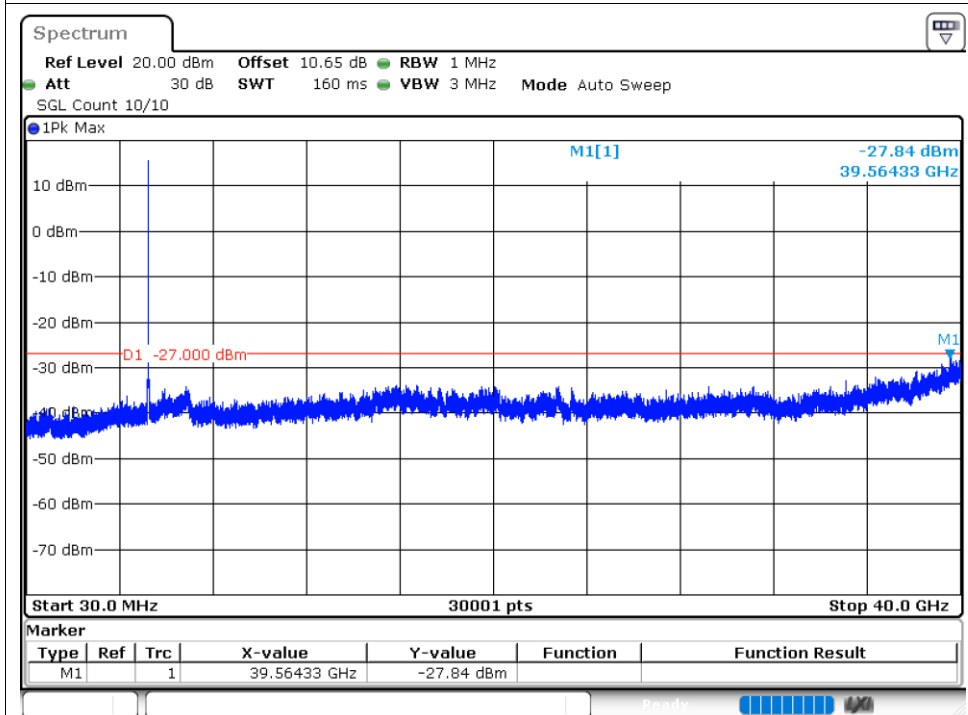
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



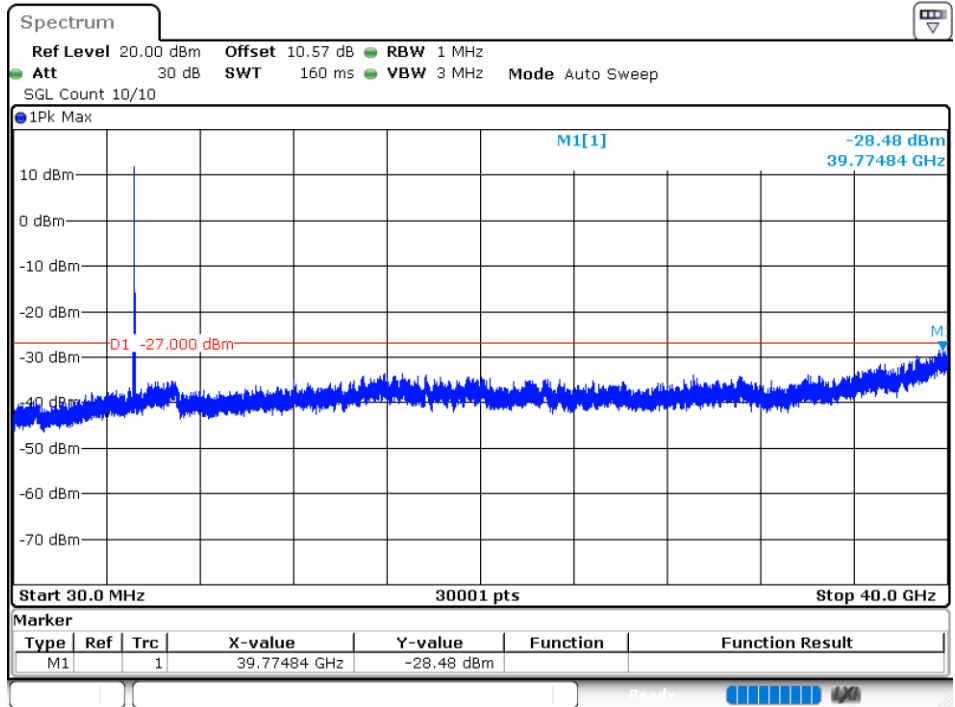
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



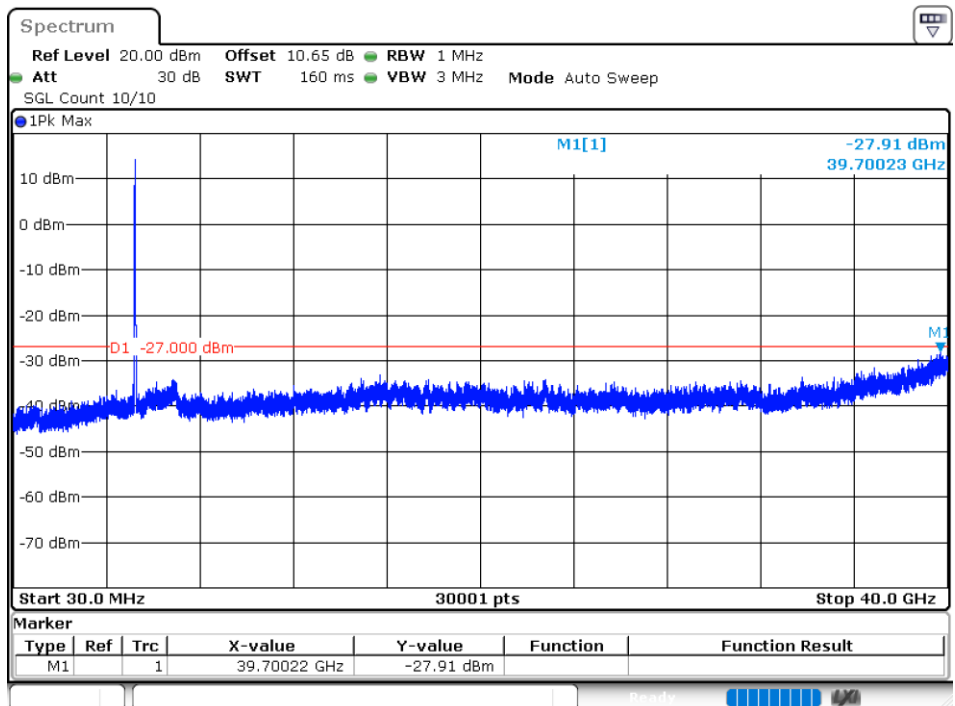
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



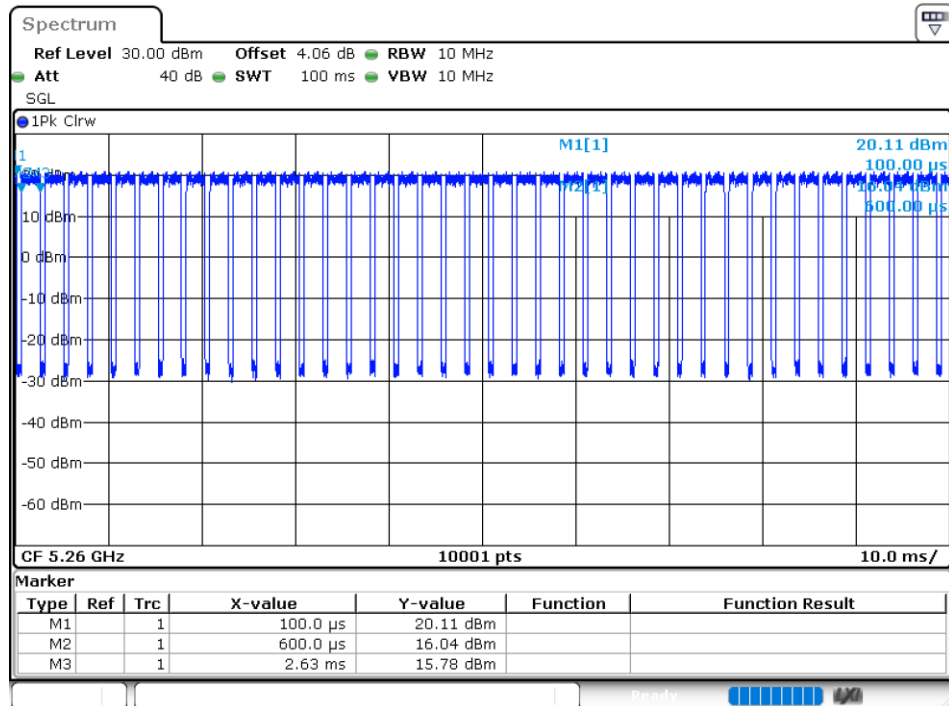
5.3G WIFI

Duty Cycle

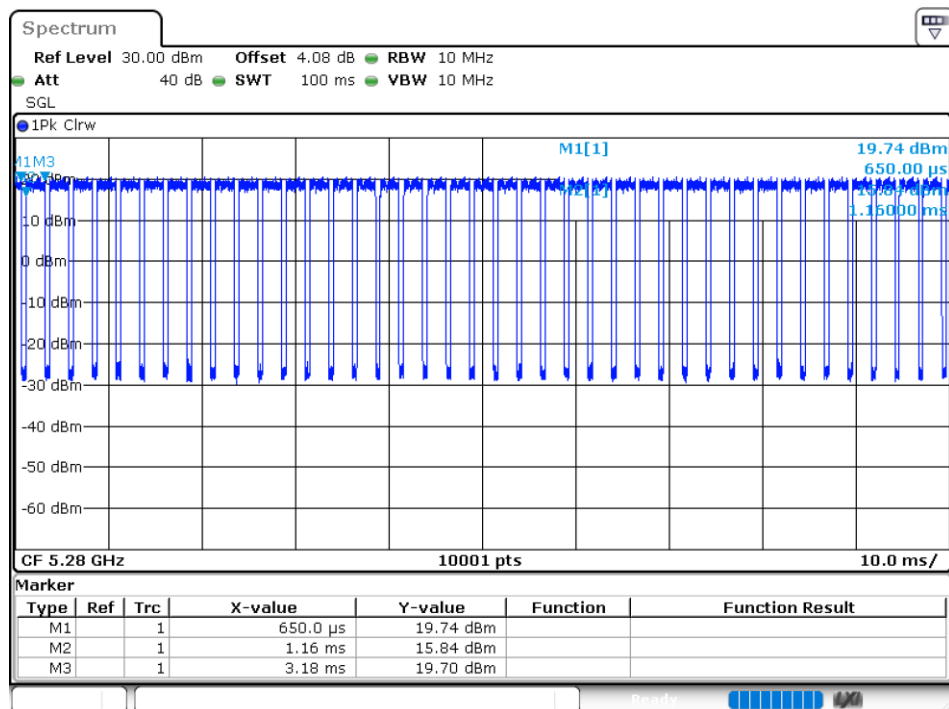
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	80.31	0.95	0.49
NVNT	a	5280	Ant1	80.31	0.95	0.5
NVNT	a	5320	Ant1	80.31	0.95	0.49
NVNT	n20	5260	Ant1	79.31	1.01	0.53
NVNT	n20	5280	Ant1	79.3	1.01	0.53
NVNT	n20	5320	Ant1	79.73	0.98	0.53
NVNT	n40	5270	Ant1	65.68	1.83	1.08
NVNT	n40	5310	Ant1	65.6	1.83	1.09

Test Graphs

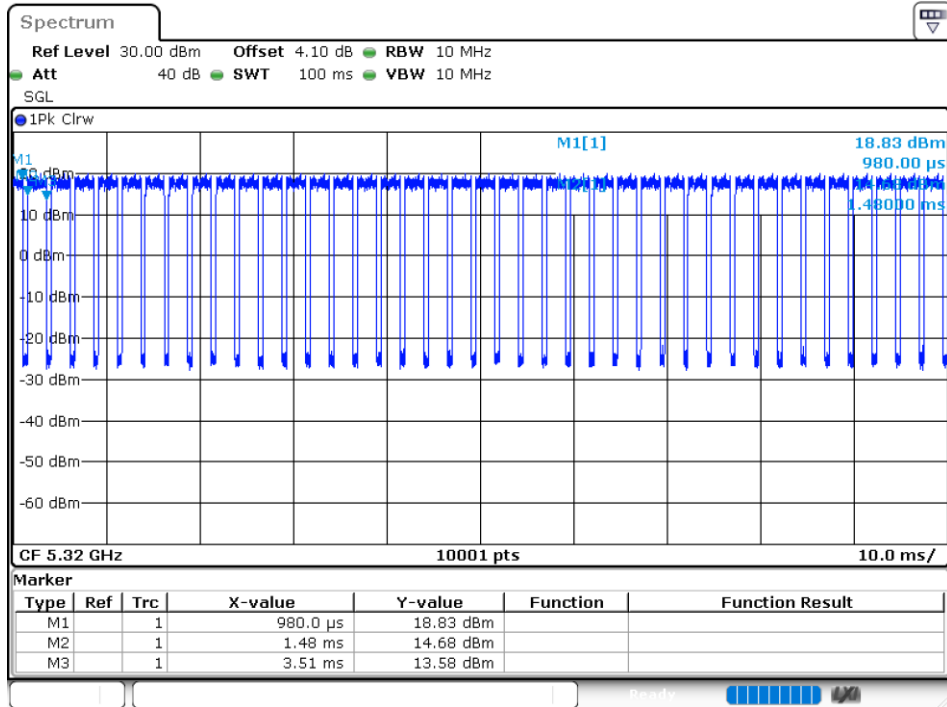
Duty Cycle NVNT a 5260MHz Ant1



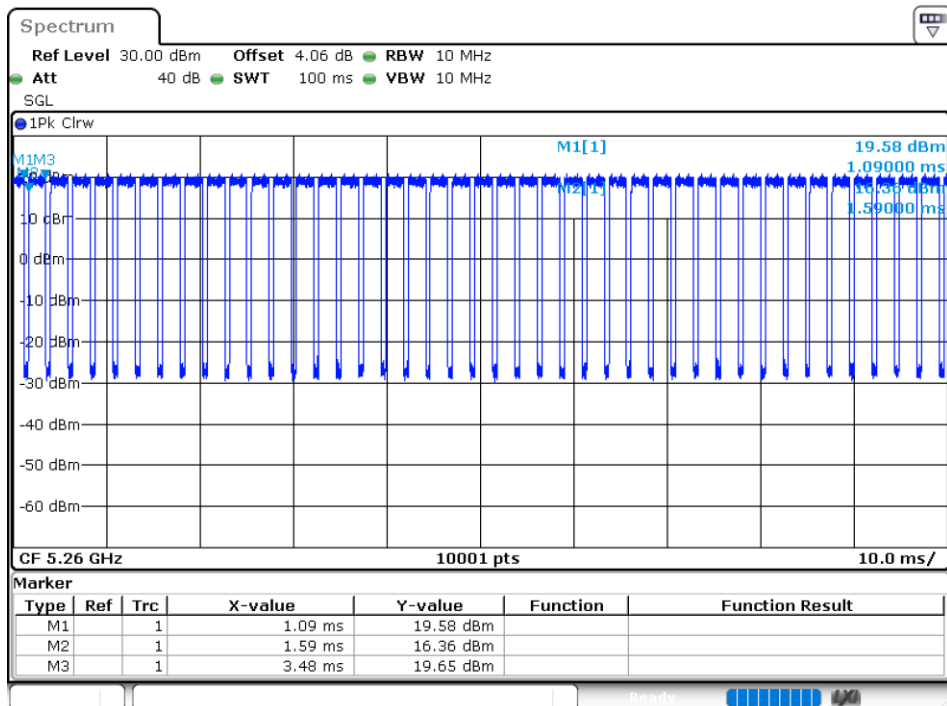
Duty Cycle NVNT a 5280MHz Ant1



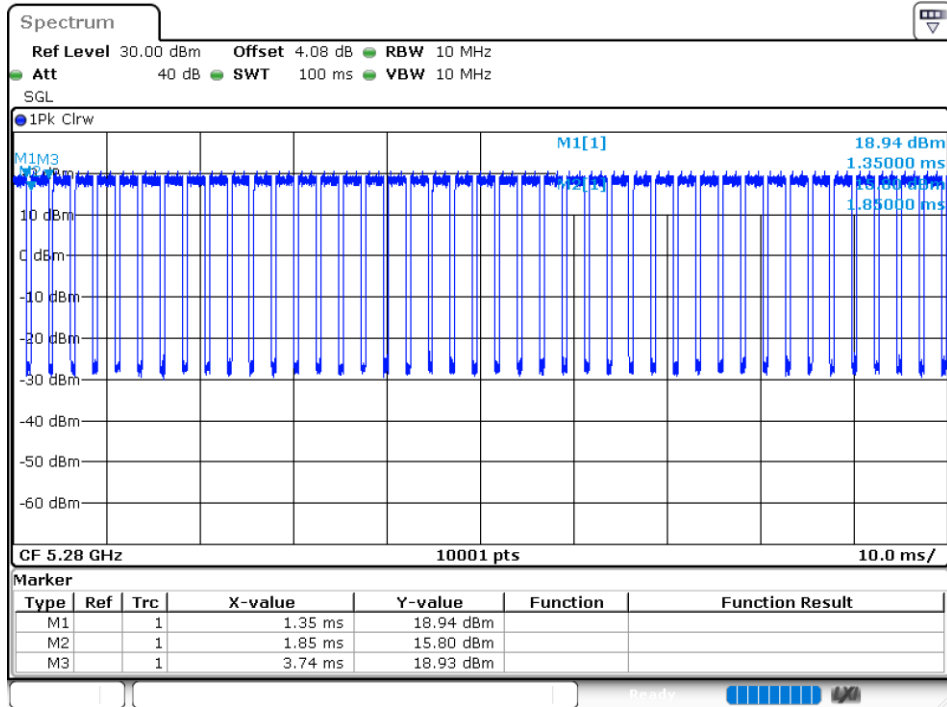
Duty Cycle NVNT a 5320MHz Ant1



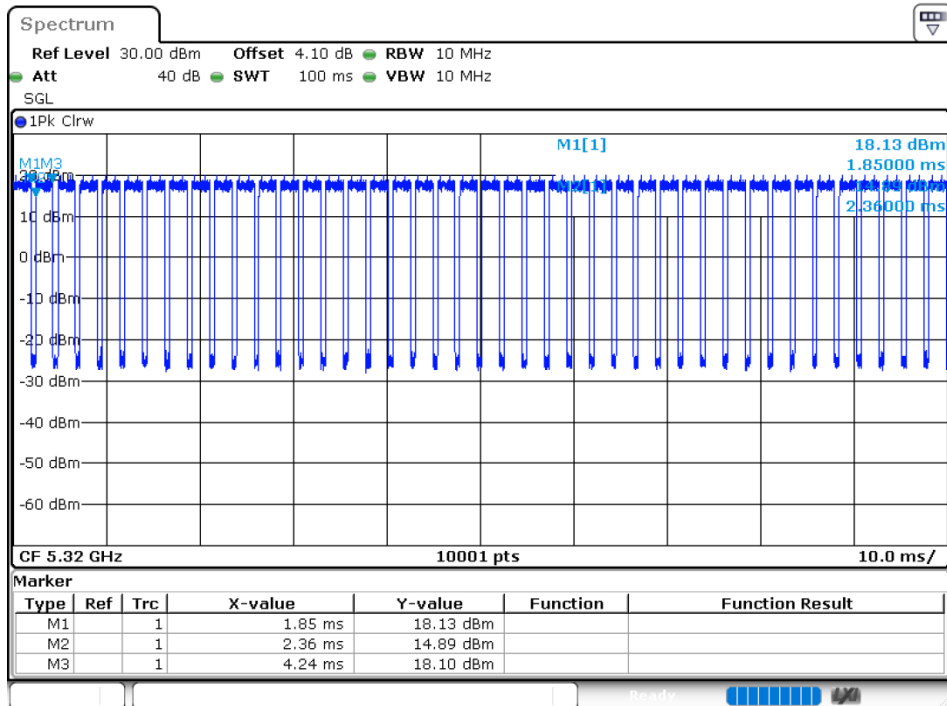
Duty Cycle NVNT n20 5260MHz Ant1



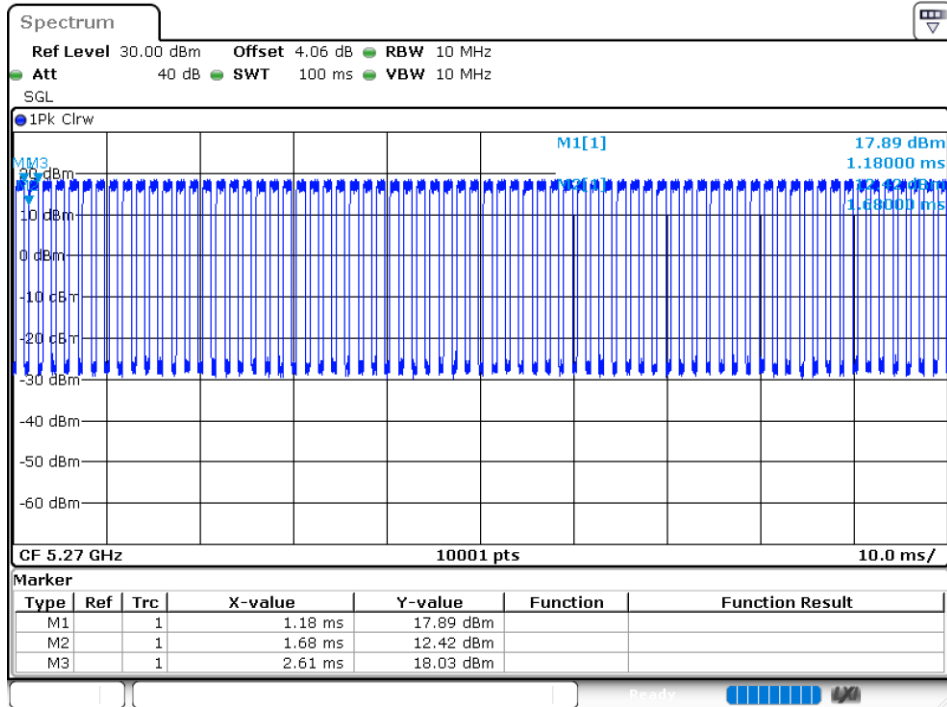
Duty Cycle NVNT n20 5280MHz Ant1



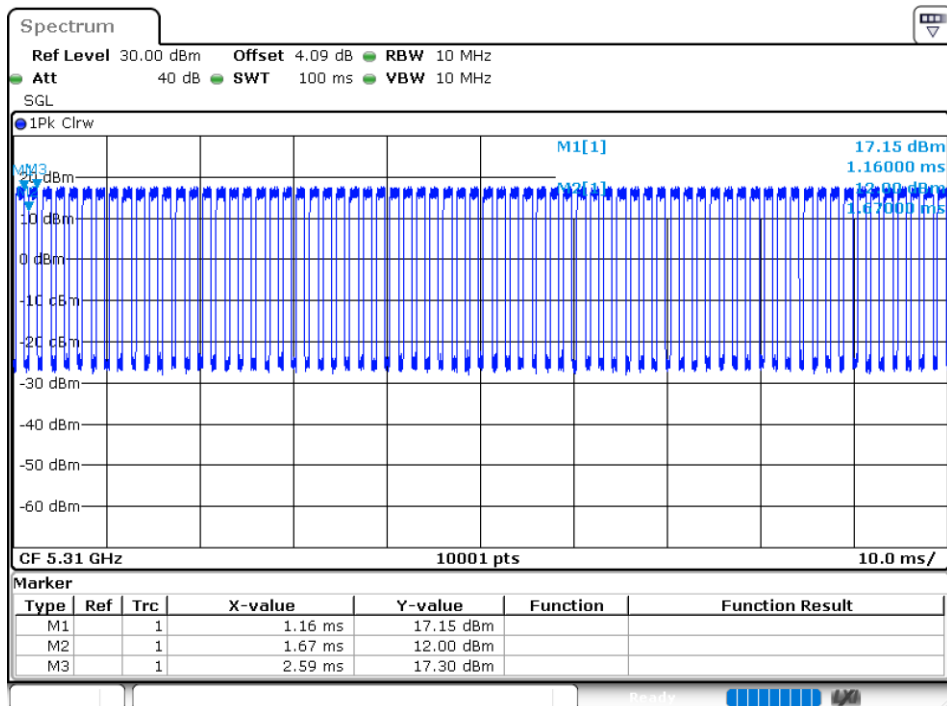
Duty Cycle NVNT n20 5320MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



Maximum Conducted Output Power

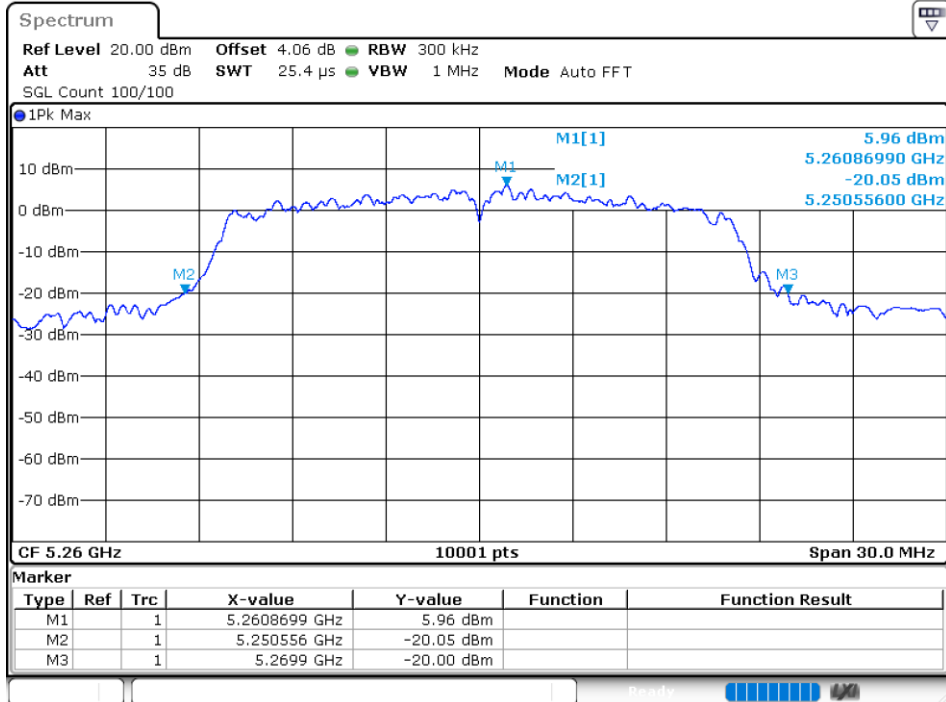
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	14.98	24	Pass
NVNT	a	5280	Ant1	14.58	24	Pass
NVNT	a	5320	Ant1	14.22	24	Pass
NVNT	n20	5260	Ant1	15.05	24	Pass
NVNT	n20	5280	Ant1	14.36	24	Pass
NVNT	n20	5320	Ant1	14.21	24	Pass
NVNT	n40	5270	Ant1	14.72	24	Pass
NVNT	n40	5310	Ant1	14.31	24	Pass

-26dB Bandwidth

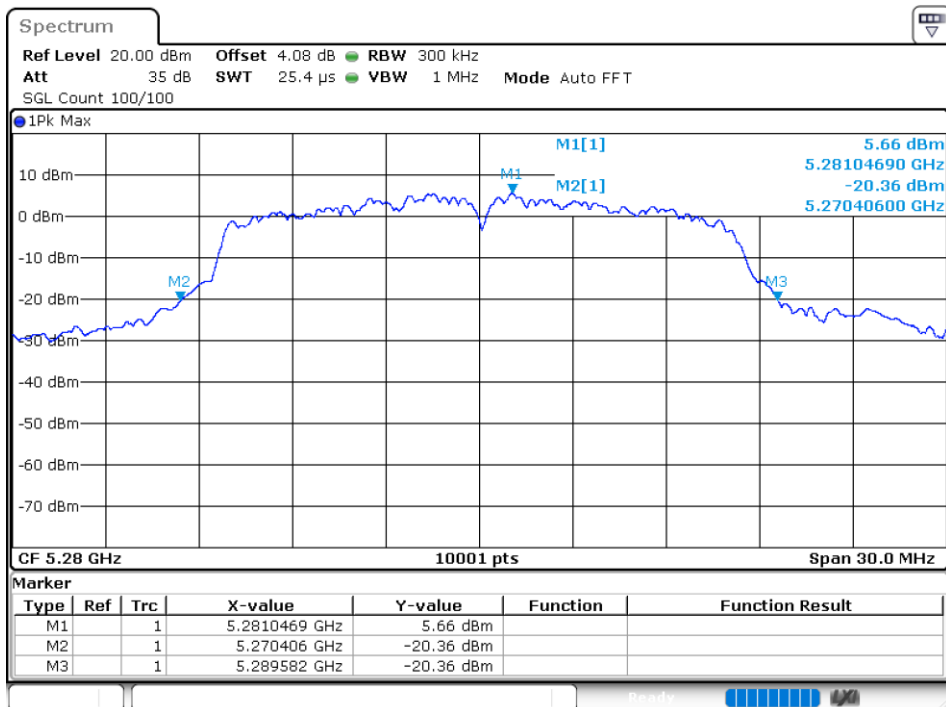
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	19.344	Pass
NVNT	a	5280	Ant1	19.176	Pass
NVNT	a	5320	Ant1	19.242	Pass
NVNT	n20	5260	Ant1	21.435	Pass
NVNT	n20	5280	Ant1	21.216	Pass
NVNT	n20	5320	Ant1	20.583	Pass
NVNT	n40	5270	Ant1	51.594	Pass
NVNT	n40	5310	Ant1	41.766	Pass

Test Graphs

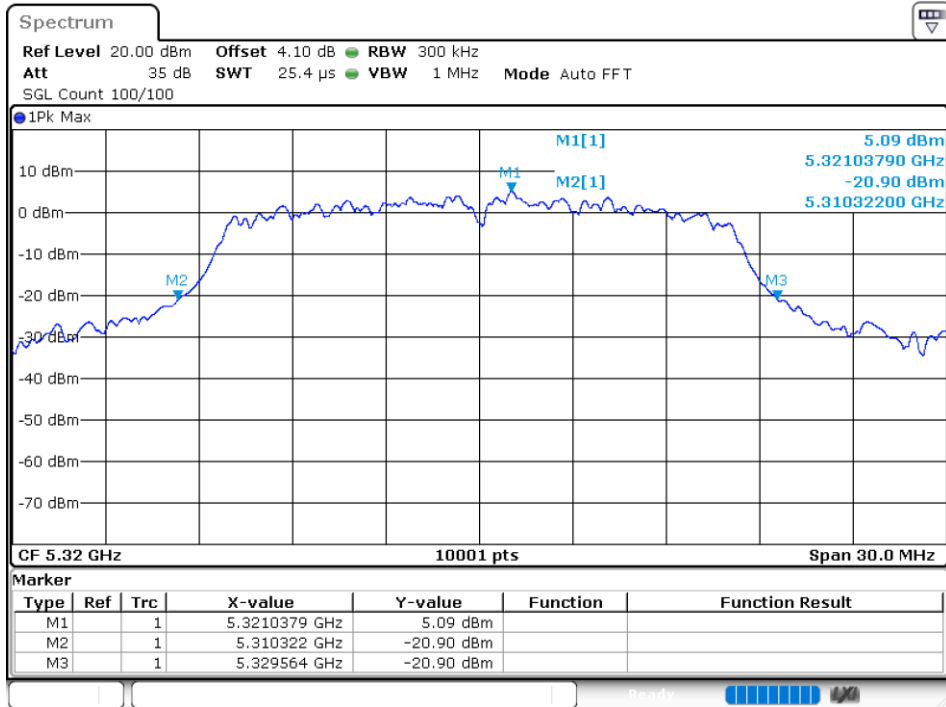
-26dB Bandwidth NVNT a 5260MHz Ant1



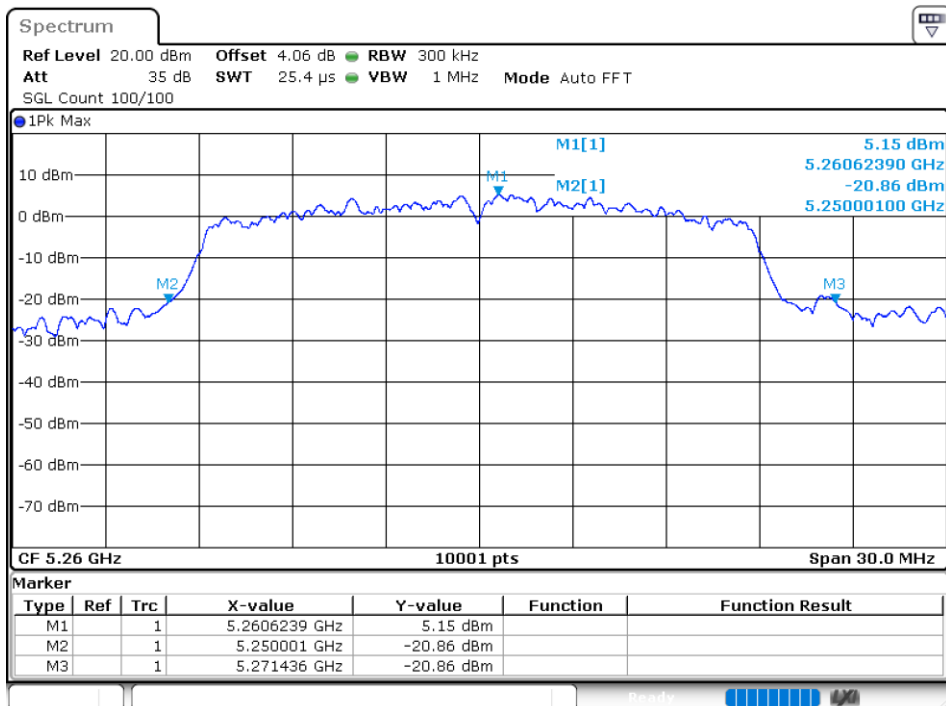
-26dB Bandwidth NVNT a 5280MHz Ant1



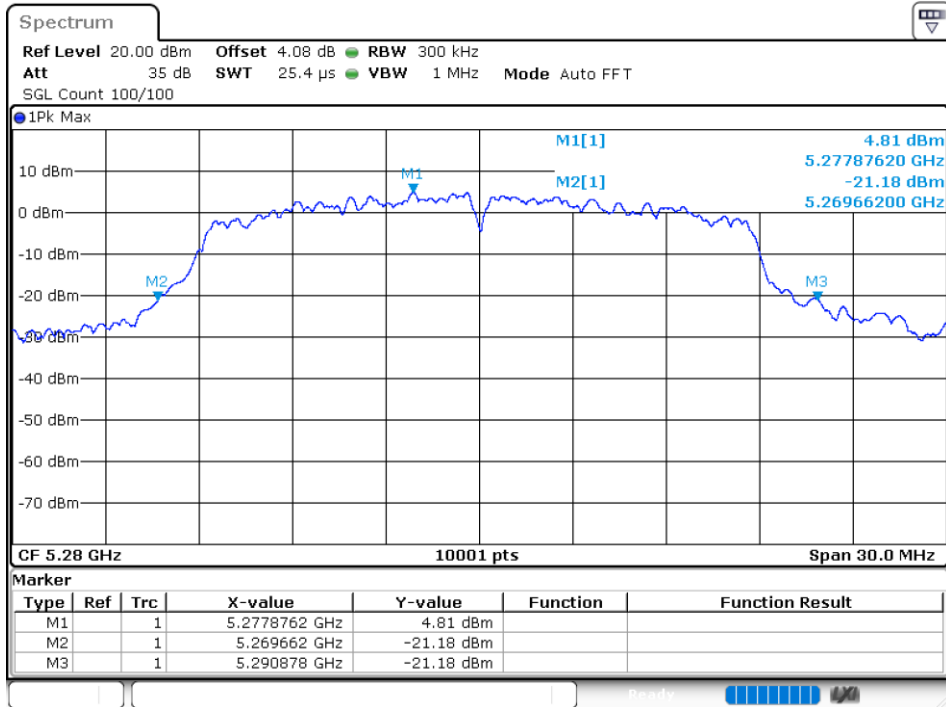
-26dB Bandwidth NVNT a 5320MHz Ant1



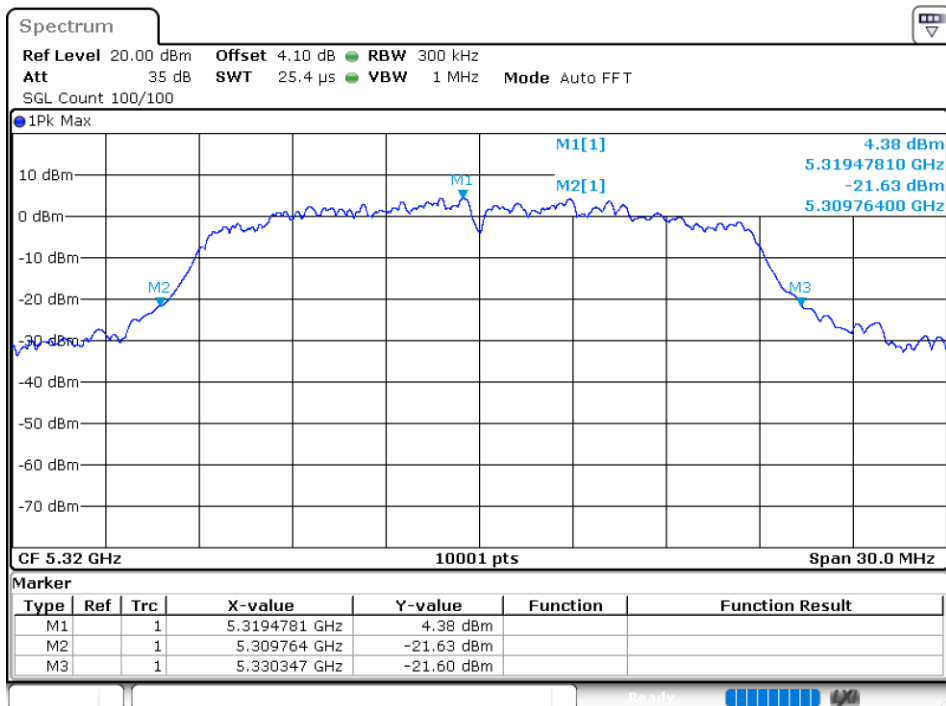
-26dB Bandwidth NVNT n20 5260MHz Ant1



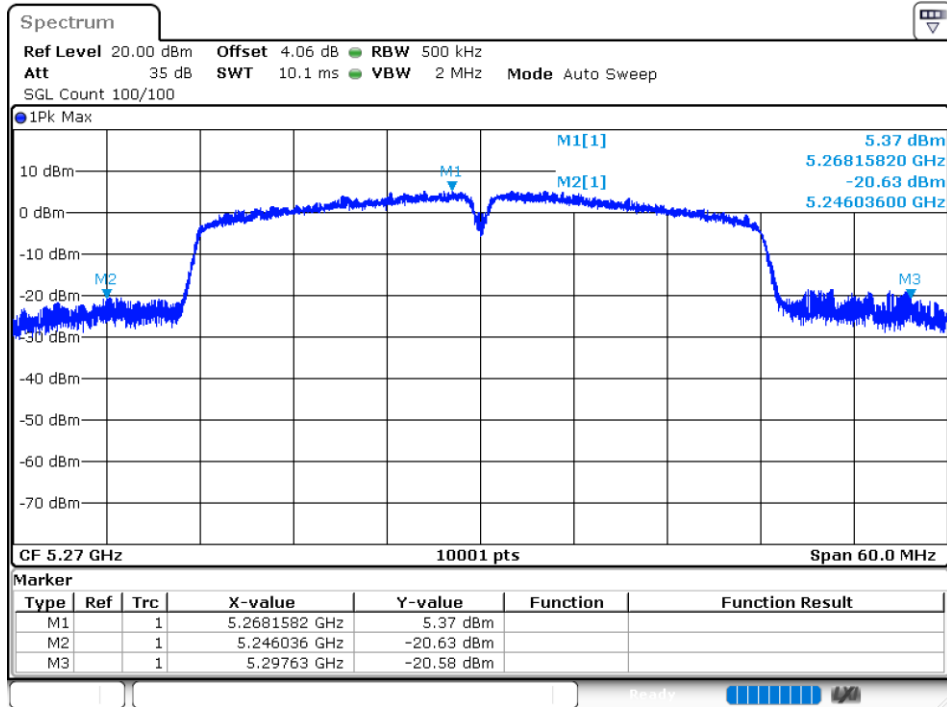
-26dB Bandwidth NVNT n20 5280MHz Ant1



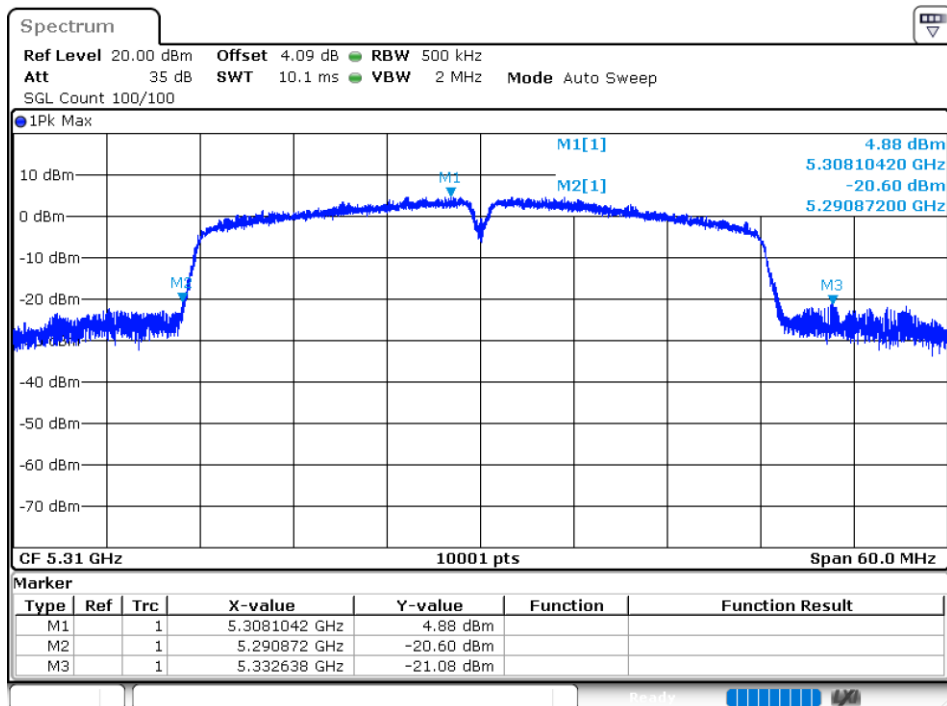
-26dB Bandwidth NVNT n20 5320MHz Ant1



-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1

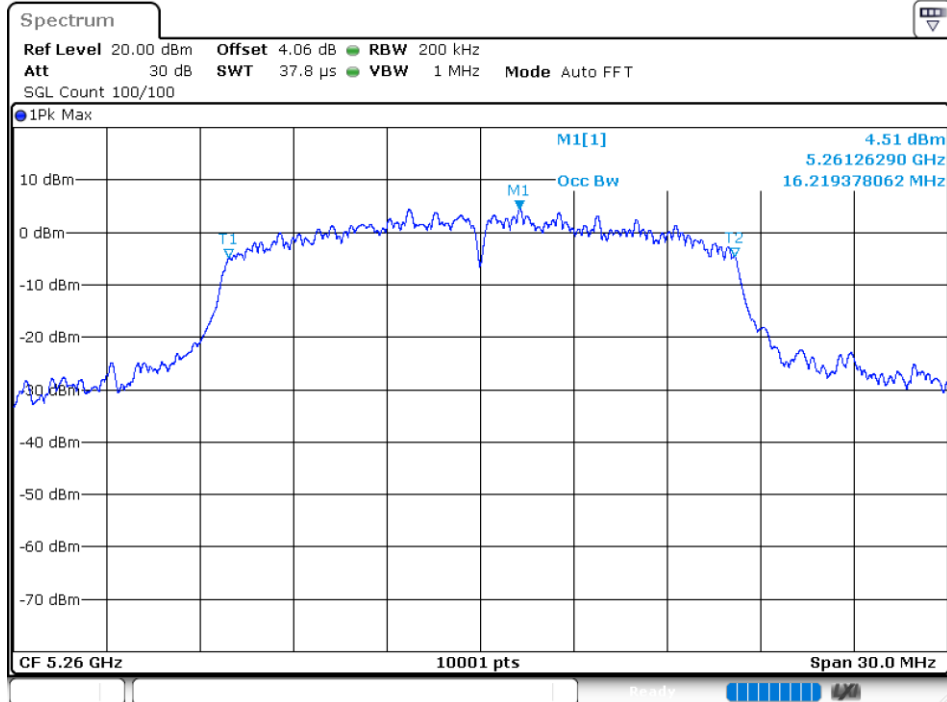


Occupied Channel Bandwidth

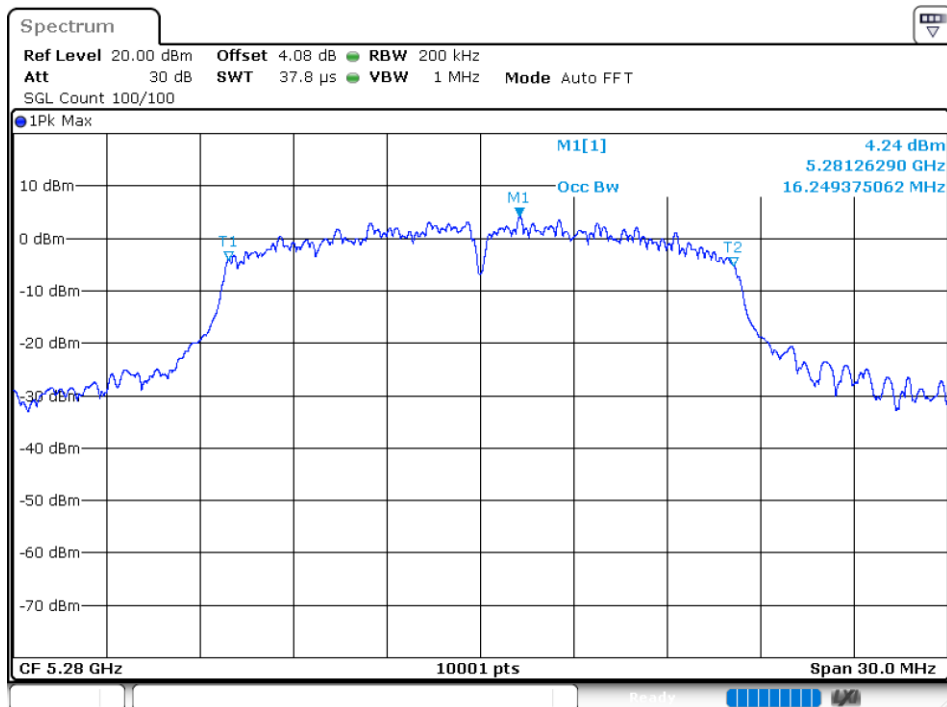
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.219
NVNT	a	5280	Ant1	16.249
NVNT	a	5320	Ant1	16.219
NVNT	n20	5260	Ant1	17.389
NVNT	n20	5280	Ant1	17.395
NVNT	n20	5320	Ant1	17.422
NVNT	n40	5270	Ant1	35.408
NVNT	n40	5310	Ant1	35.348

Test Graphs

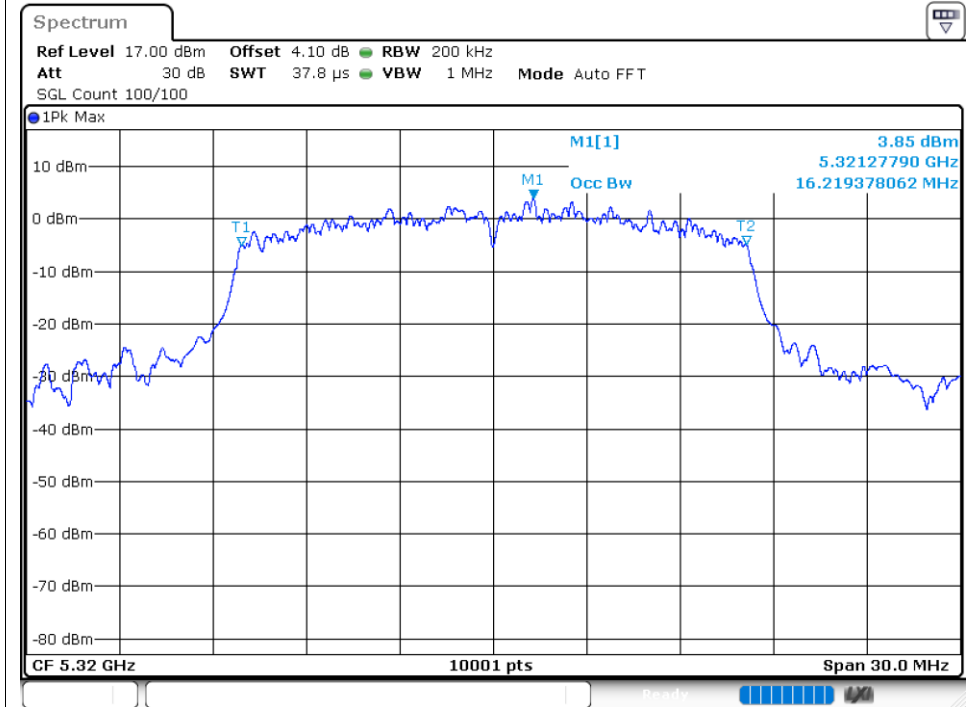
OBW NVNT a 5260MHz Ant1



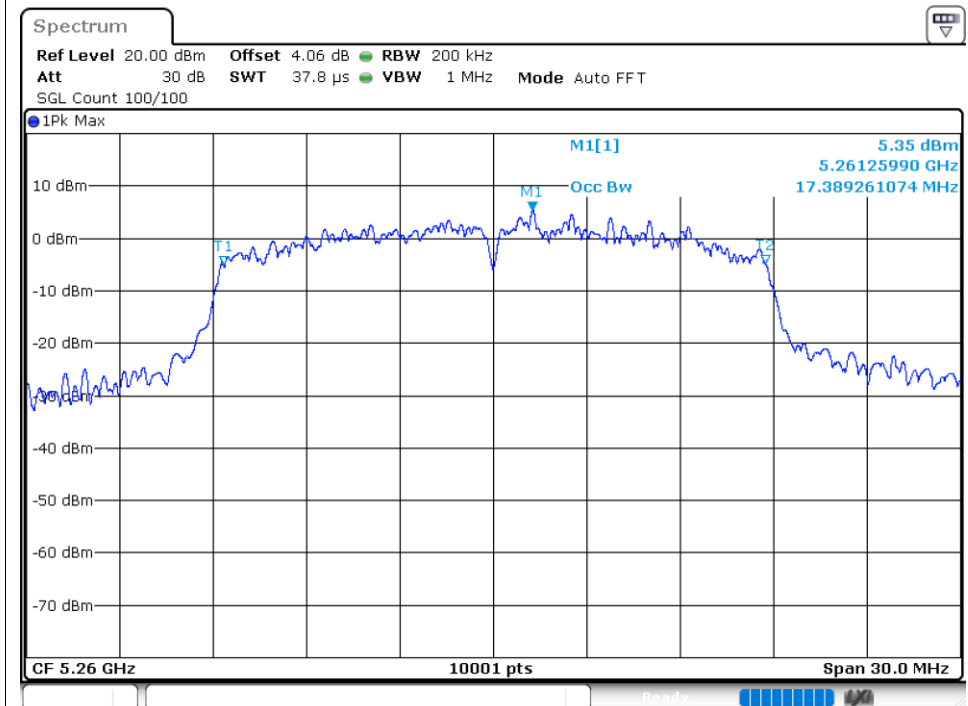
OBW NVNT a 5280MHz Ant1



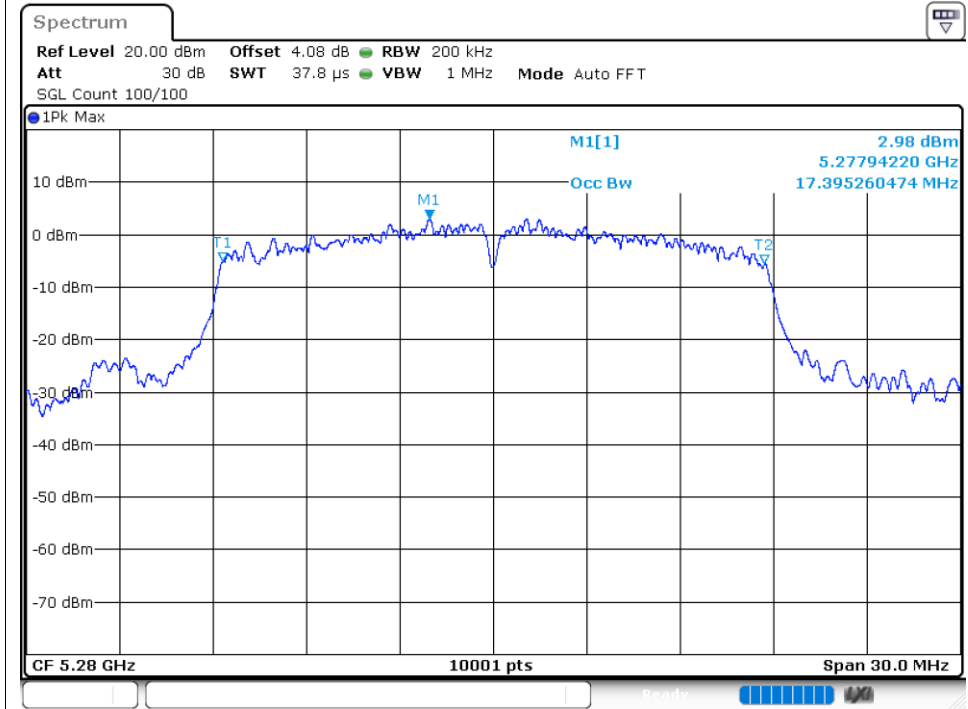
OBW NVNT a 5320MHz Ant1



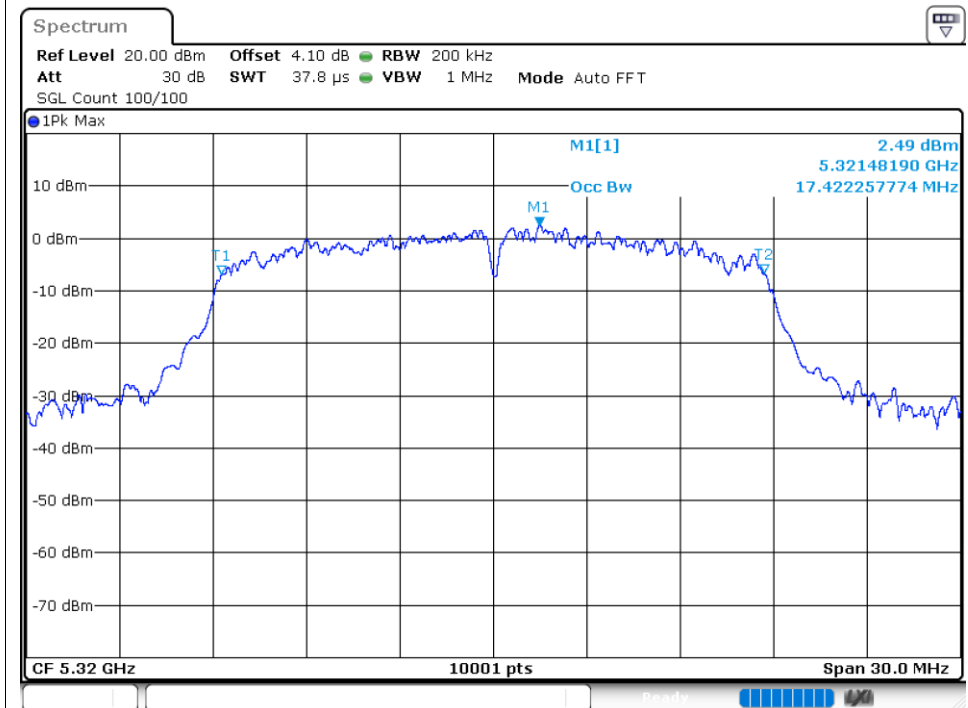
OBW NVNT n20 5260MHz Ant1



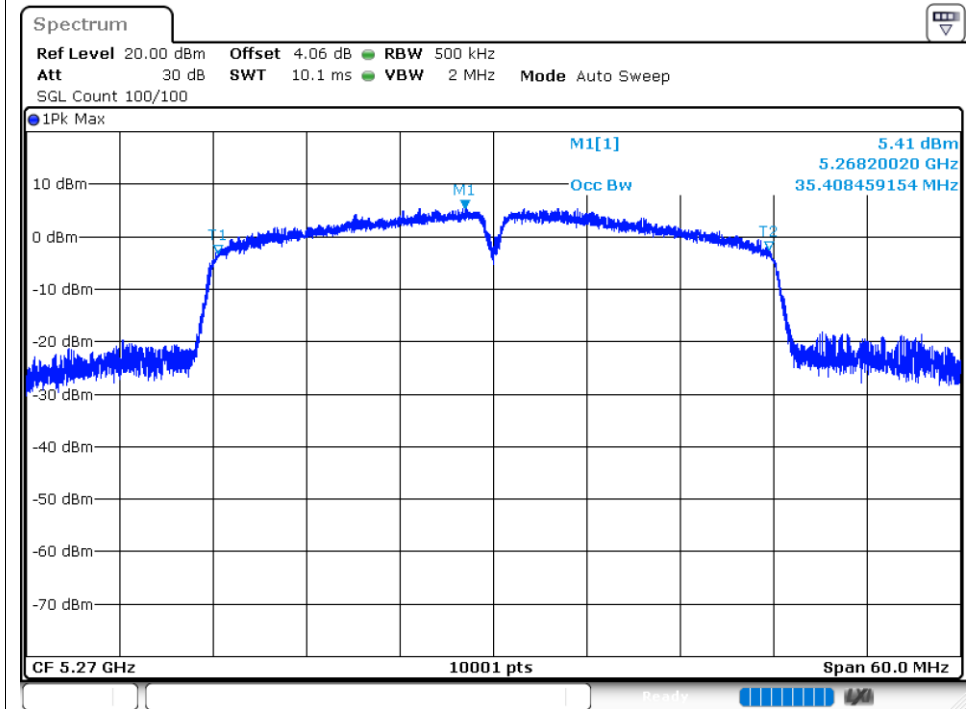
OBW NVNT n20 5280MHz Ant1



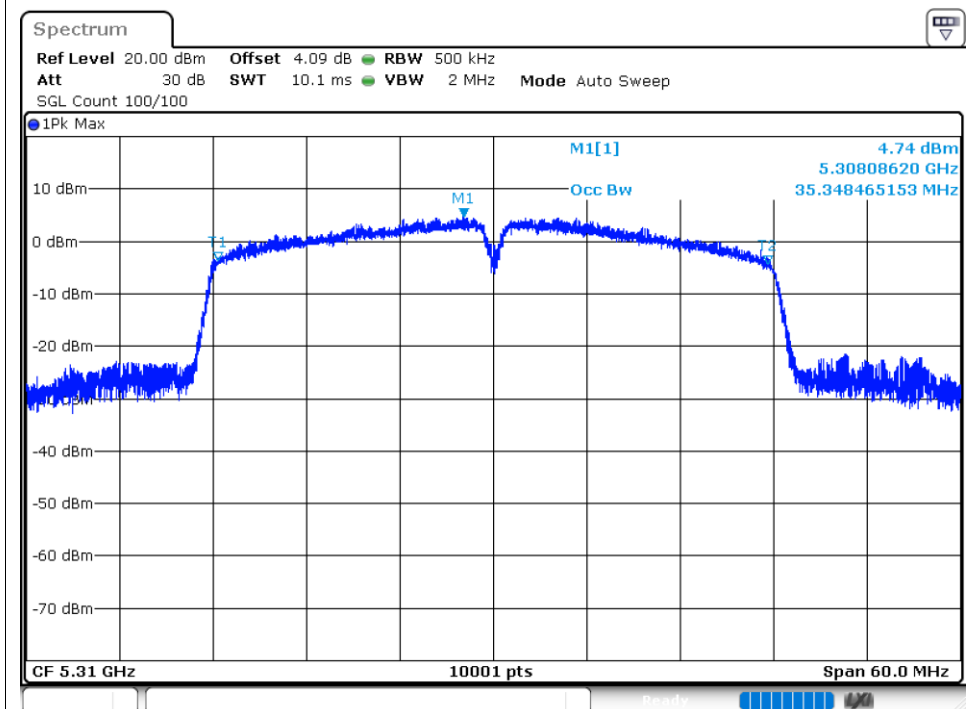
OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1



OBW NVNT n40 5310MHz Ant1

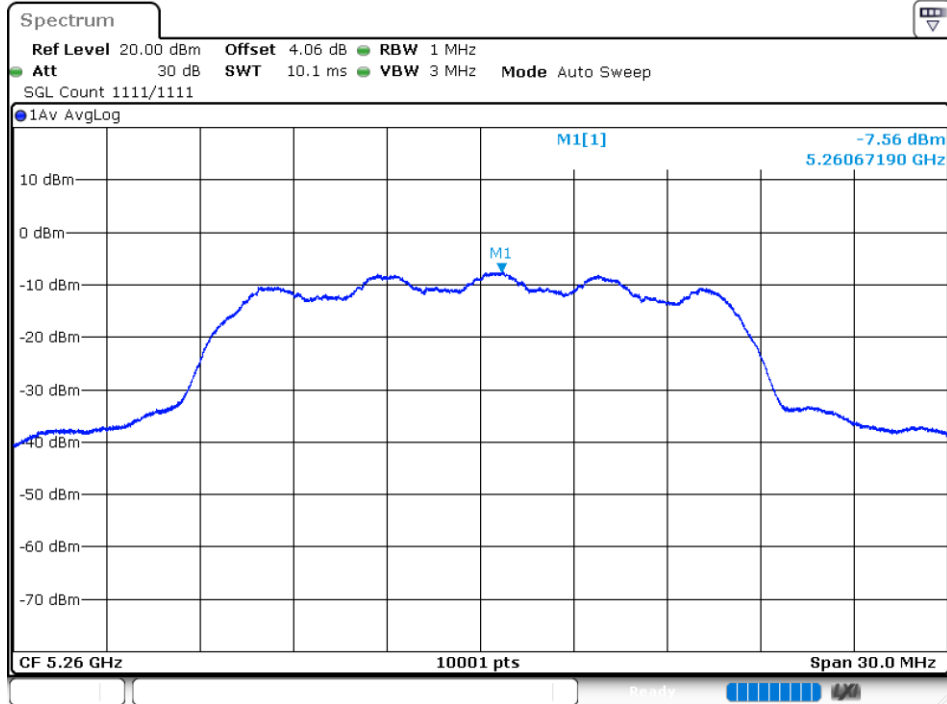


Maximum Power Spectral Density Level

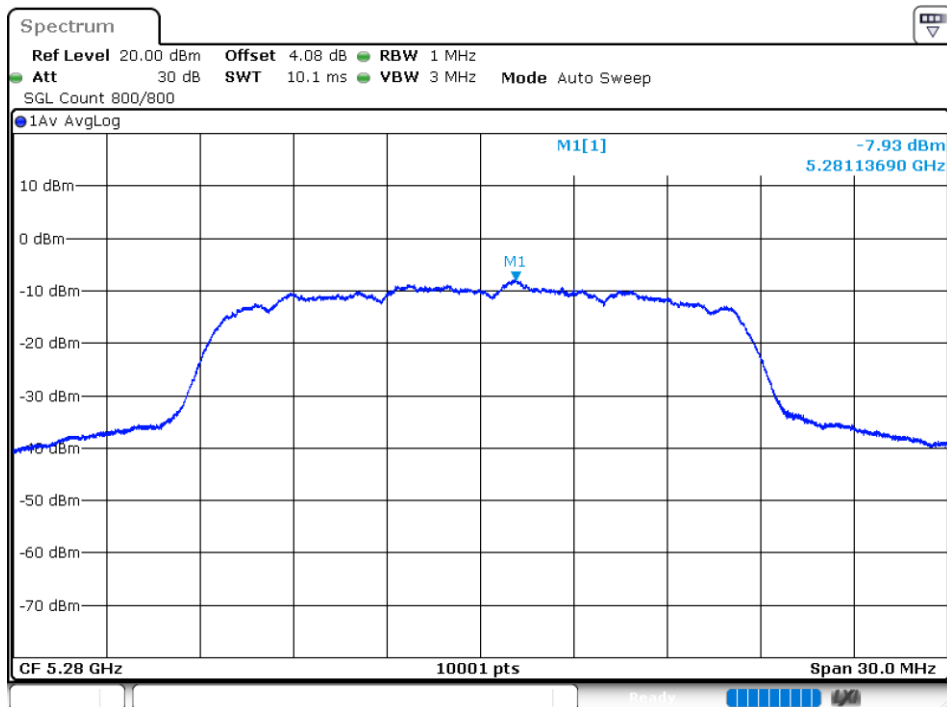
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-7.56	0.95	-6.61	11	Pass
NVNT	a	5280	Ant1	-7.93	0.95	-6.98	11	Pass
NVNT	a	5320	Ant1	-7.66	0.95	-6.71	11	Pass
NVNT	n20	5260	Ant1	-8.44	1.01	-7.43	11	Pass
NVNT	n20	5280	Ant1	-9.23	1.01	-8.22	11	Pass
NVNT	n20	5320	Ant1	-9.59	0.98	-8.61	11	Pass
NVNT	n40	5270	Ant1	-19.15	1.83	-17.32	11	Pass
NVNT	n40	5310	Ant1	-19.65	1.83	-17.82	11	Pass

Test Graphs

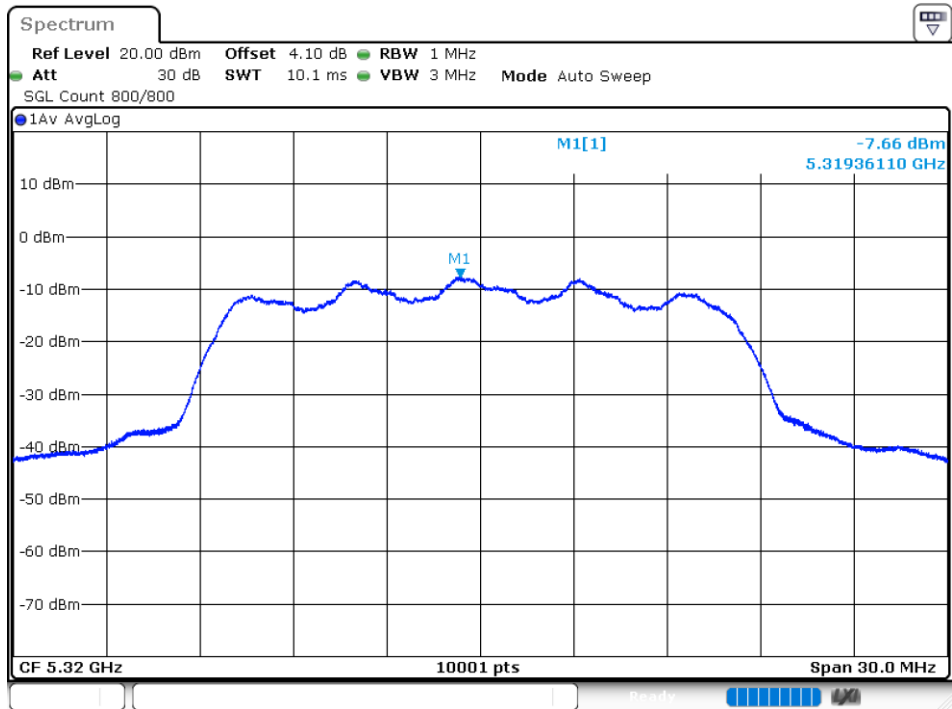
PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1



PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1

