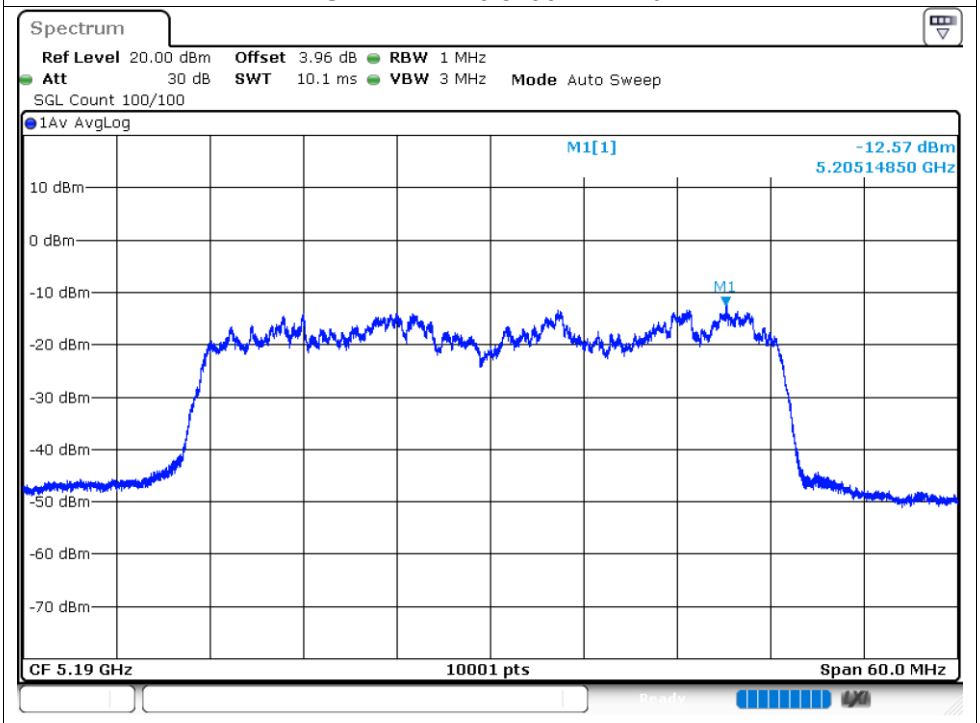
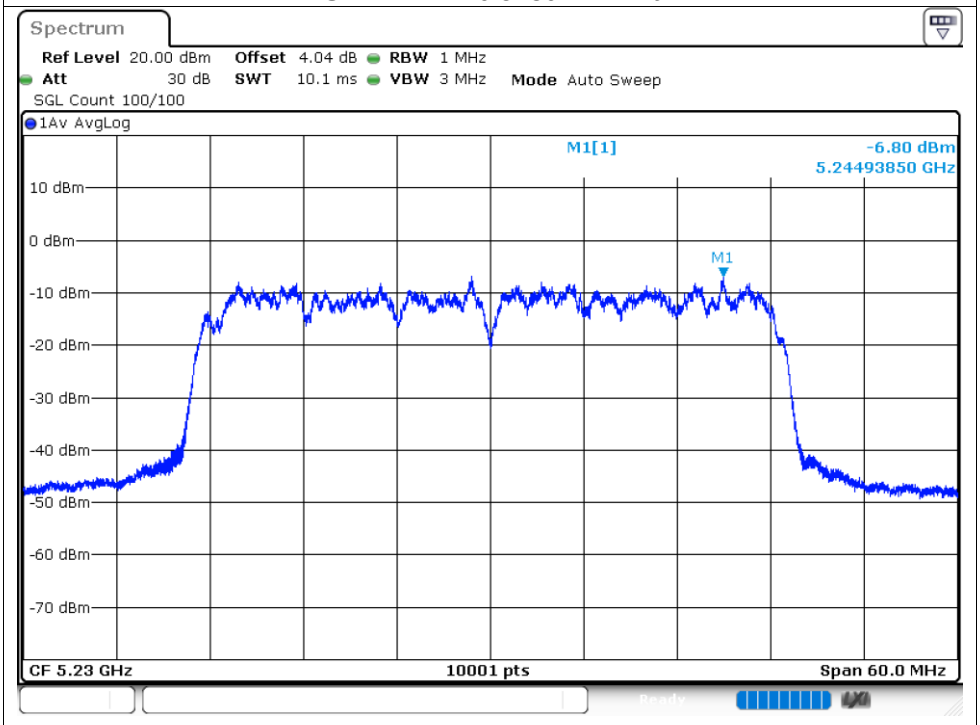
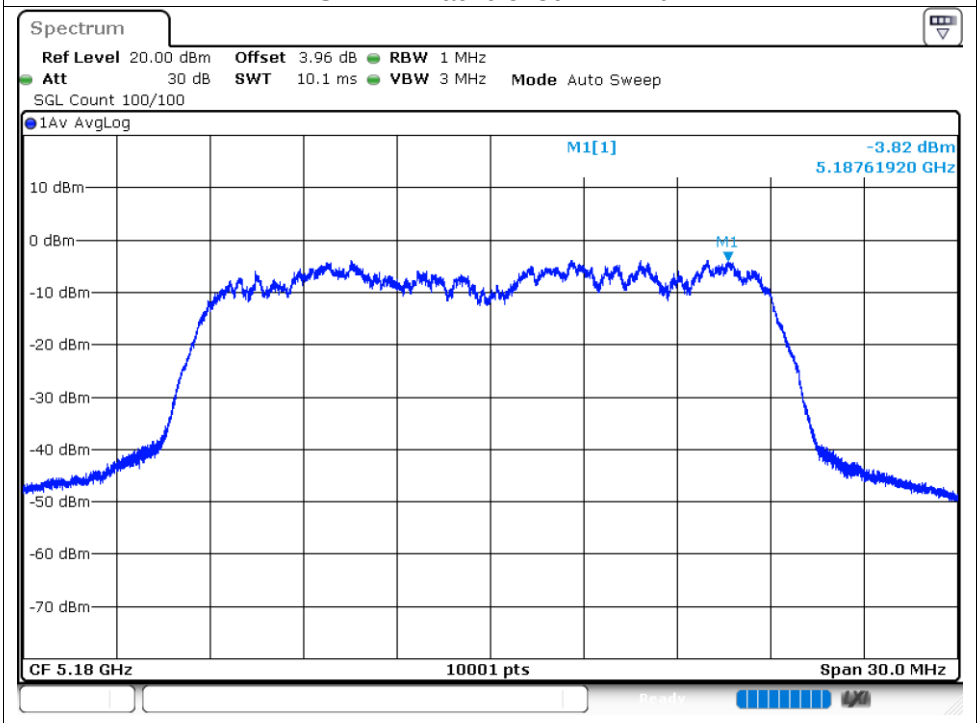
PSD NVNT n40 5190MHz Ant1



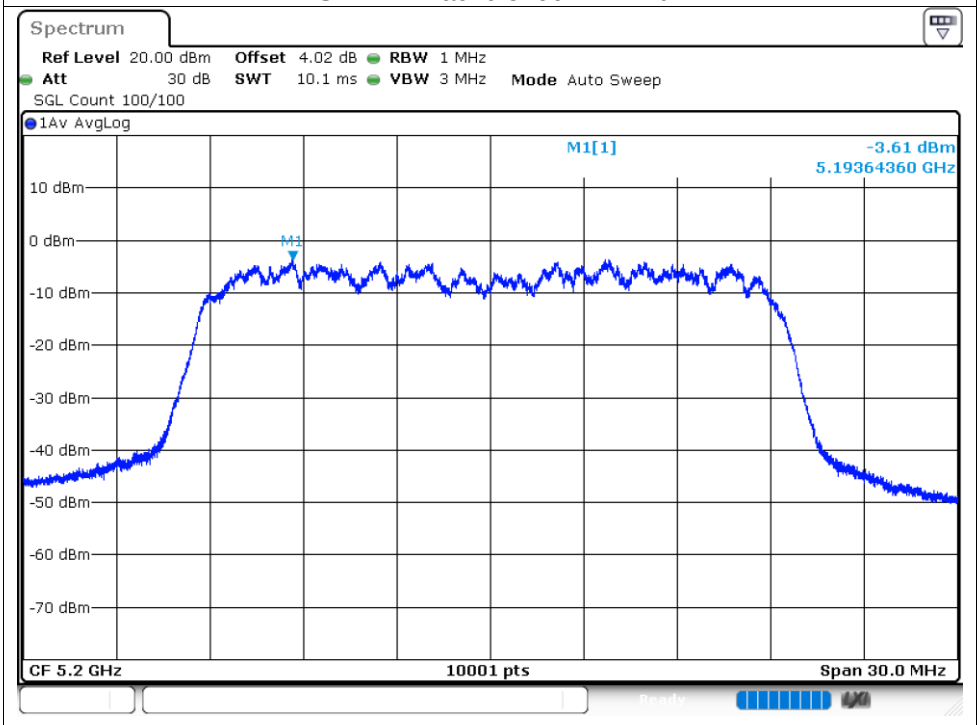
PSD NVNT n40 5230MHz Ant1



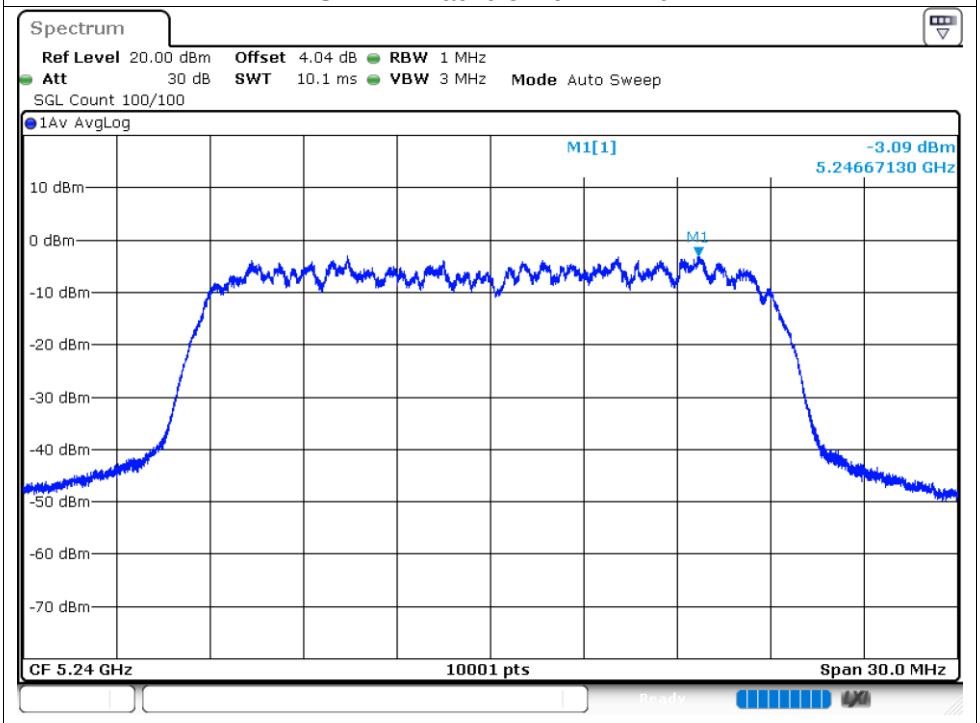
PSD NVNT ac20 5180MHz Ant1



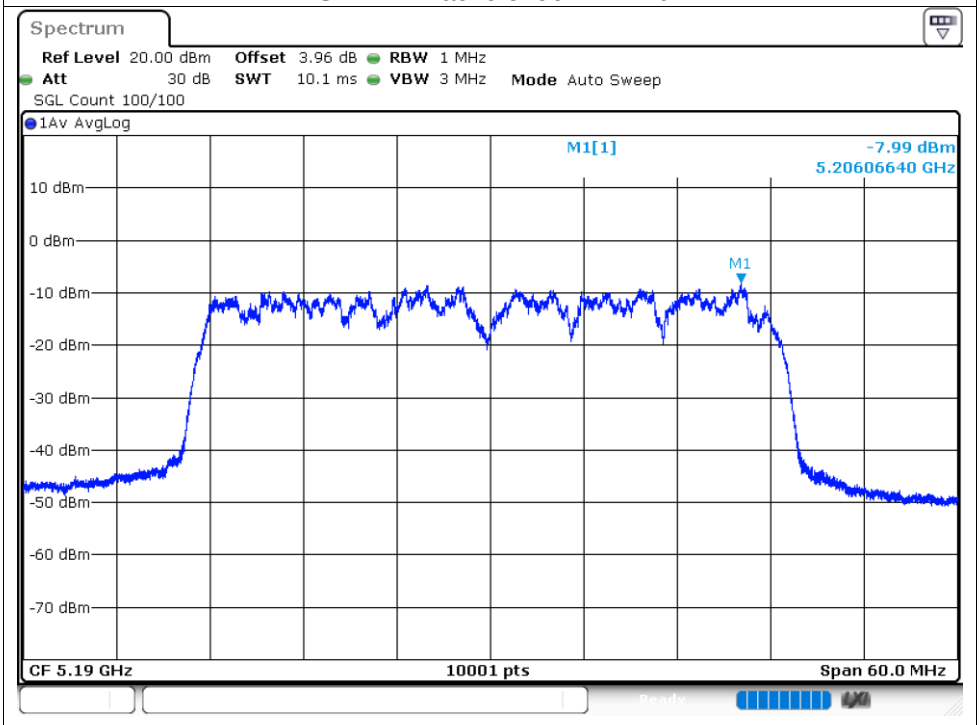
PSD NVNT ac20 5200MHz Ant1



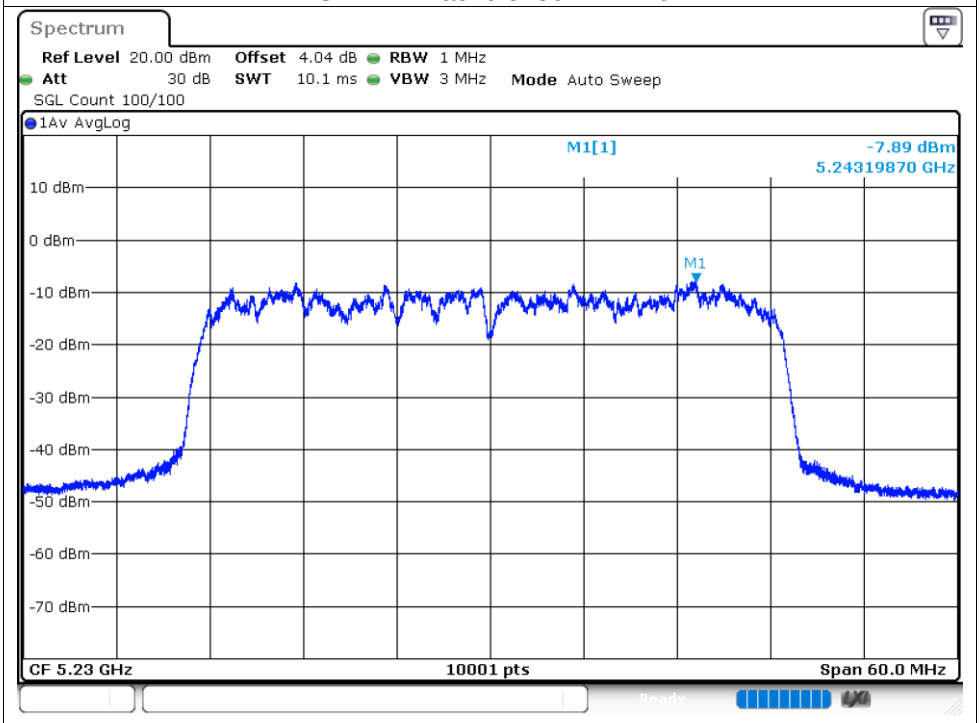
PSD NVNT ac20 5240MHz Ant1



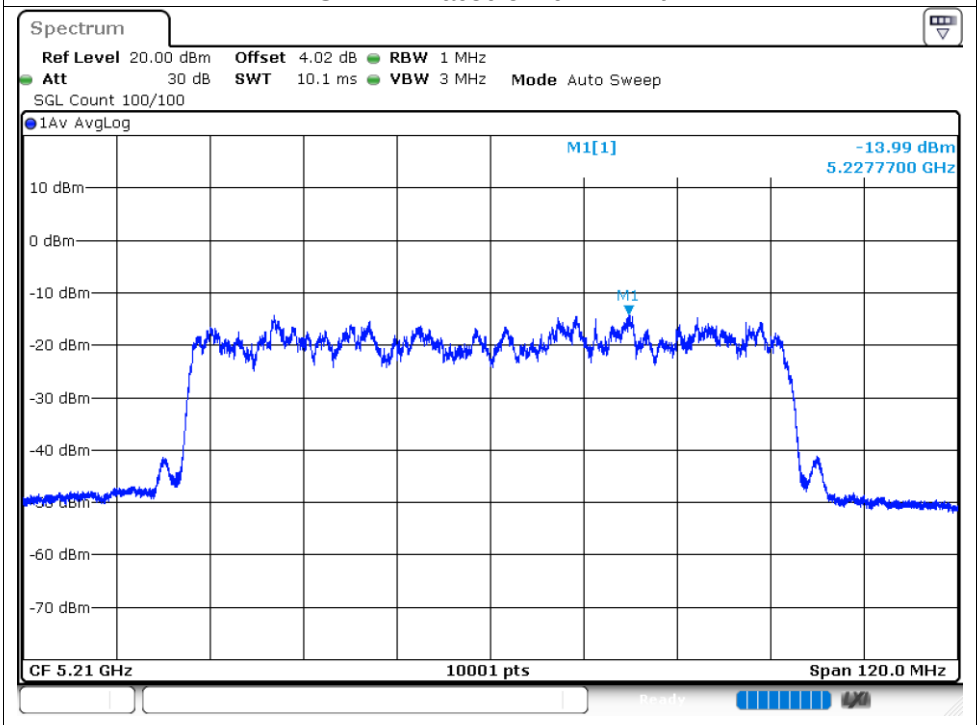
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



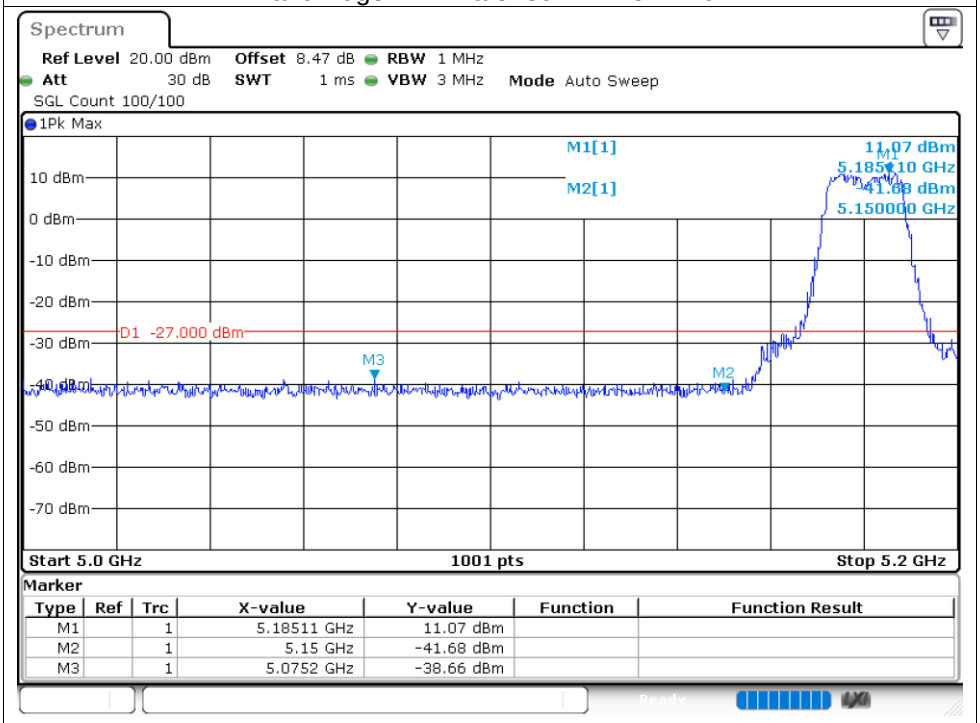
5.1.6 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-38.65	-27	Pass
NVNT	a	5240	Ant1	-38.15	-27	Pass
NVNT	n20	5180	Ant1	-38.07	-27	Pass
NVNT	n20	5240	Ant1	-37.91	-27	Pass
NVNT	n40	5190	Ant1	-32.54	-27	Pass
NVNT	n40	5230	Ant1	-38.92	-27	Pass
NVNT	ac20	5180	Ant1	-38.9	-27	Pass
NVNT	ac20	5240	Ant1	-38.53	-27	Pass
NVNT	ac40	5190	Ant1	-32.44	-27	Pass
NVNT	ac40	5230	Ant1	-38.6	-27	Pass
NVNT	ac80	5210	Ant1	-38.65	-27	Pass
NVNT	ac80	5210	Ant1	-28.36	-27	Pass

Note: This test has increased antenna gain.

Test Graphs

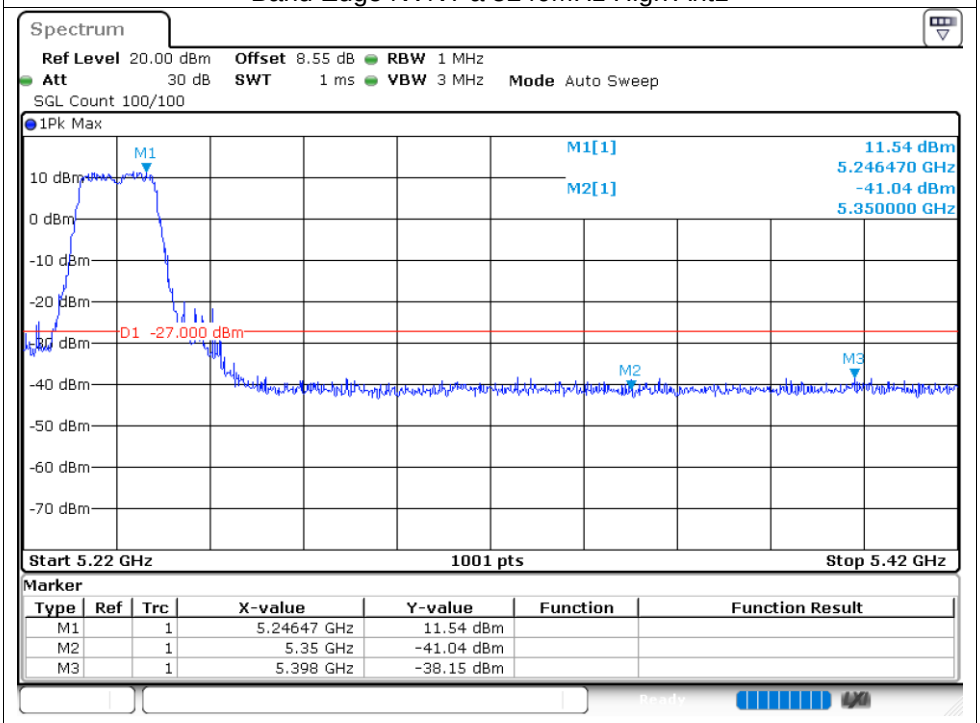
Band Edge NVNT a 5180MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18511 GHz	11.07 dBm		
M2		1	5.15 GHz	-41.68 dBm		
M3		1	5.0752 GHz	-38.66 dBm		

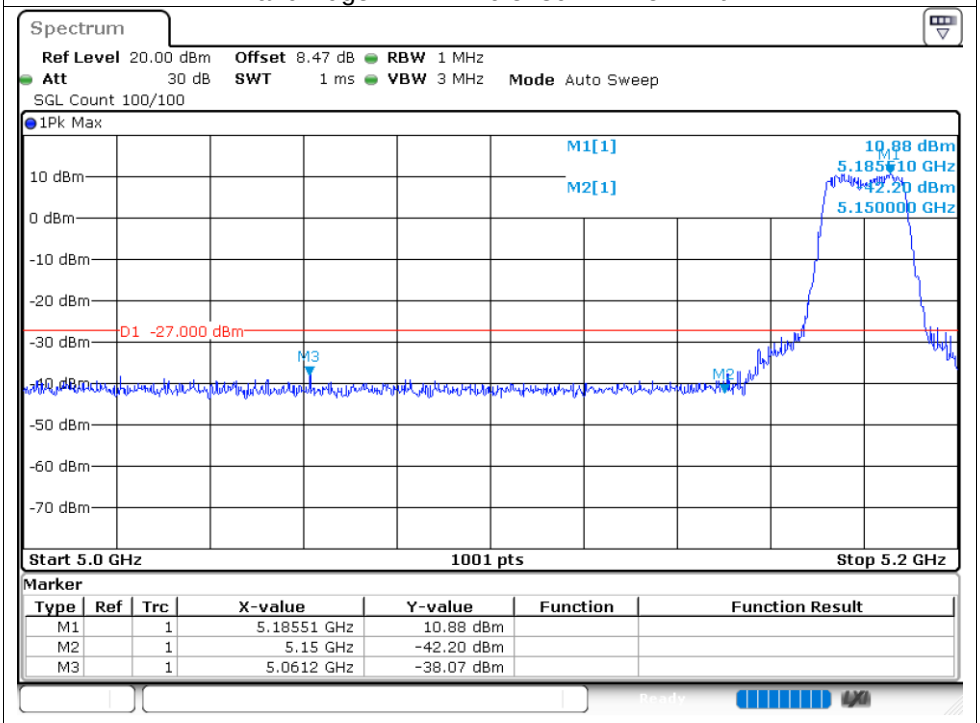
Band Edge NVNT a 5240MHz High Ant1



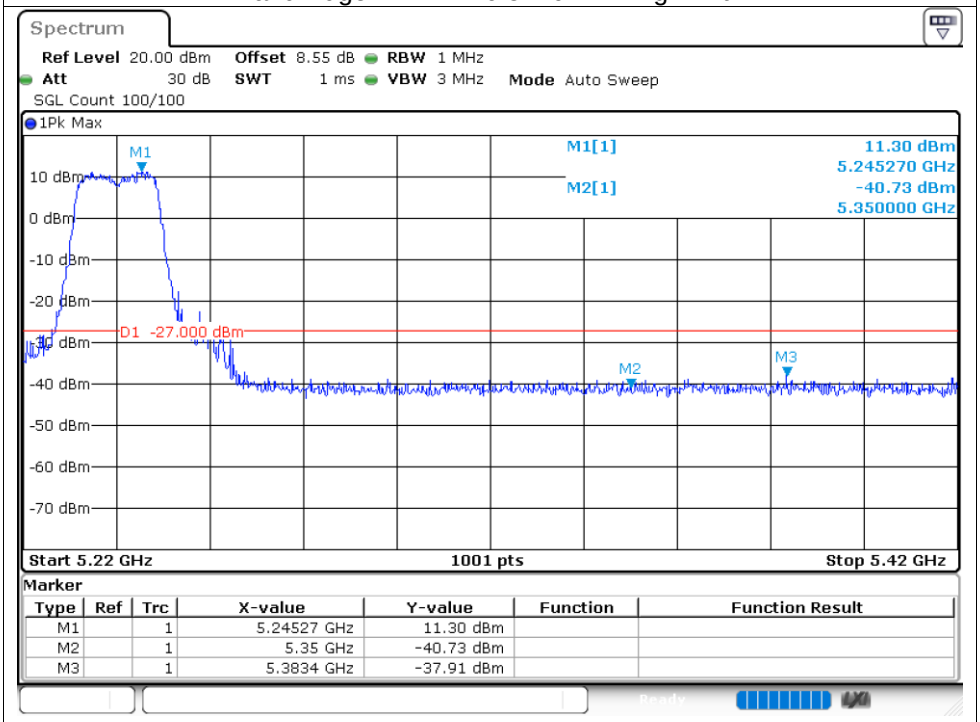
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.24647 GHz	11.54 dBm		
M2		1	5.35 GHz	-41.04 dBm		
M3		1	5.398 GHz	-38.15 dBm		

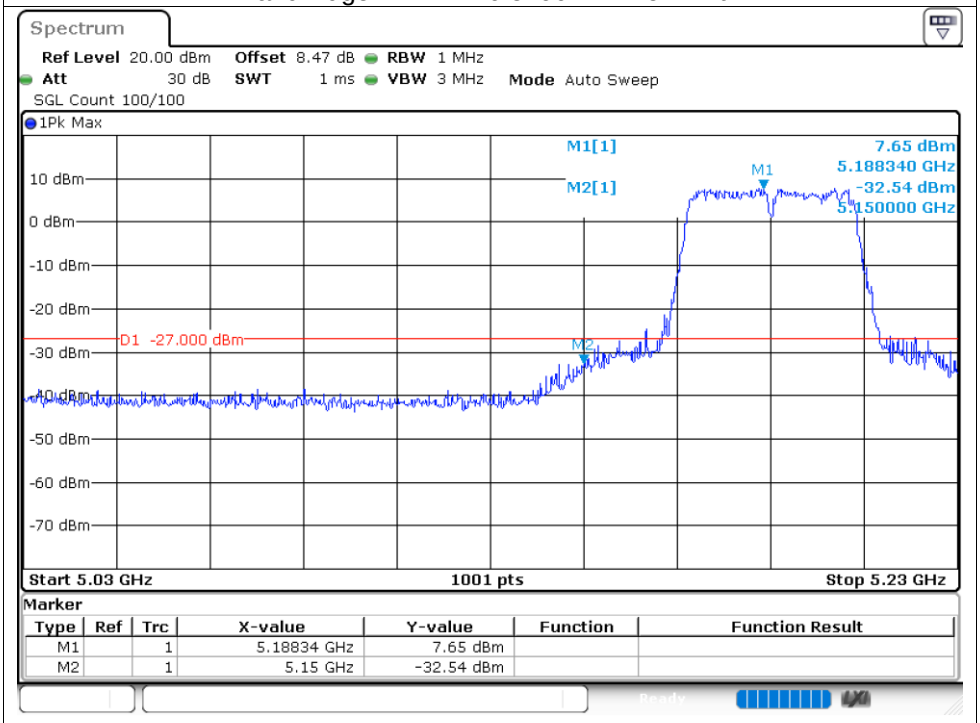
Band Edge NVNT n20 5180MHz Low Ant1



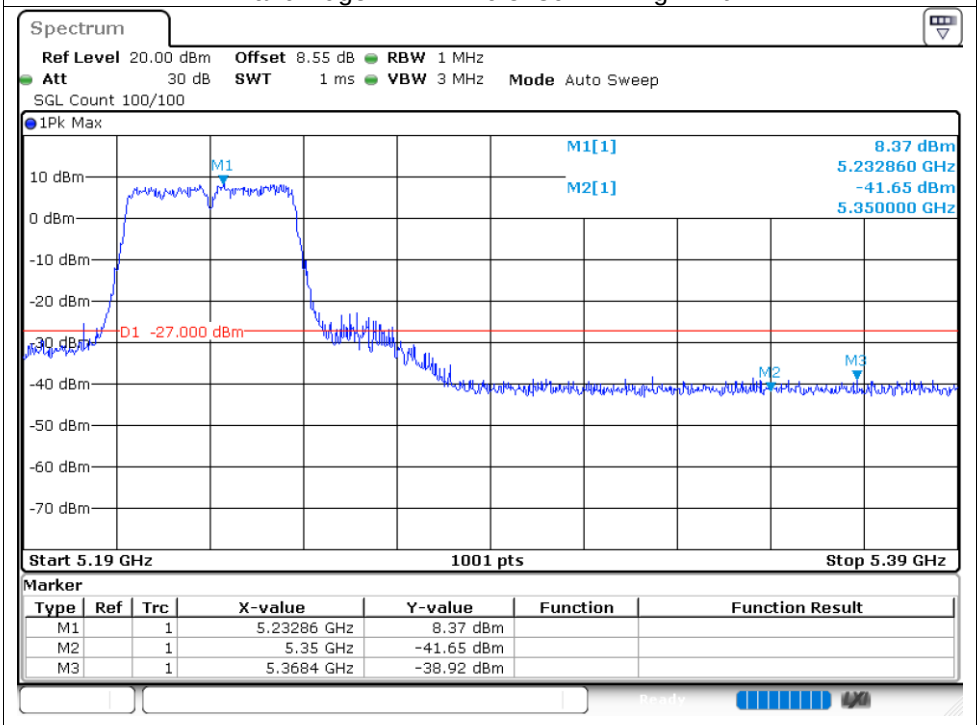
Band Edge NVNT n20 5240MHz High Ant1



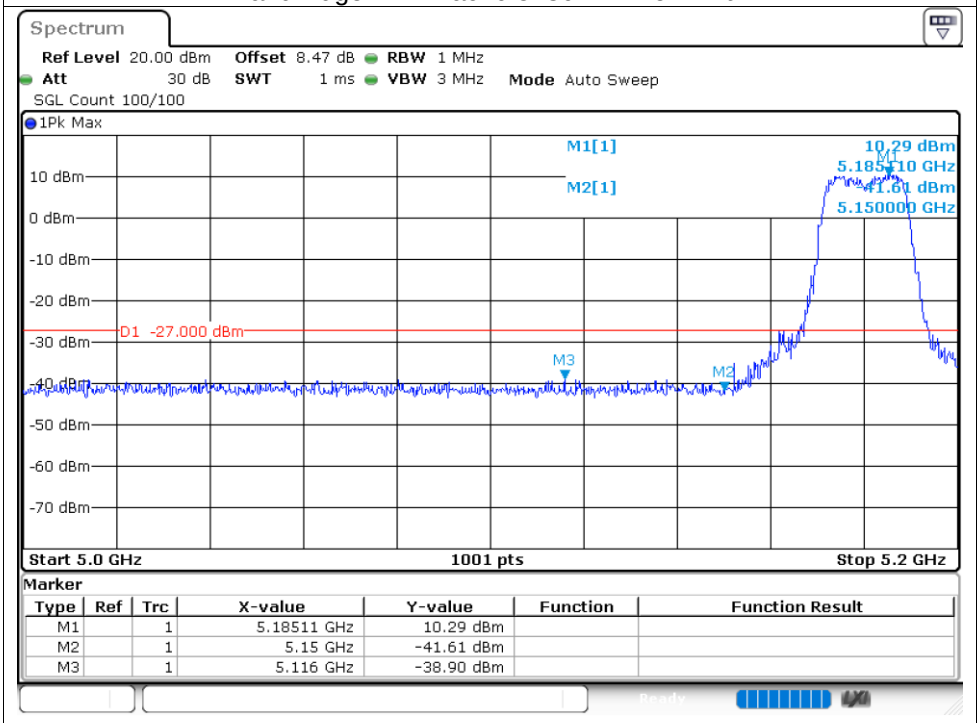
Band Edge NVNT n40 5190MHz Low Ant1



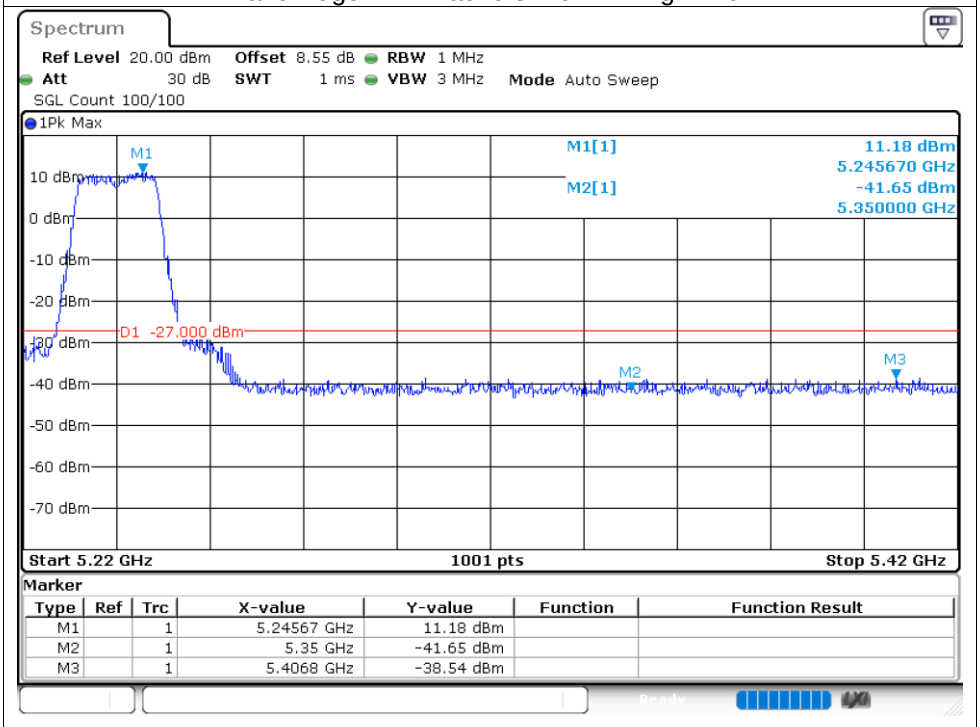
Band Edge NVNT n40 5230MHz High Ant1



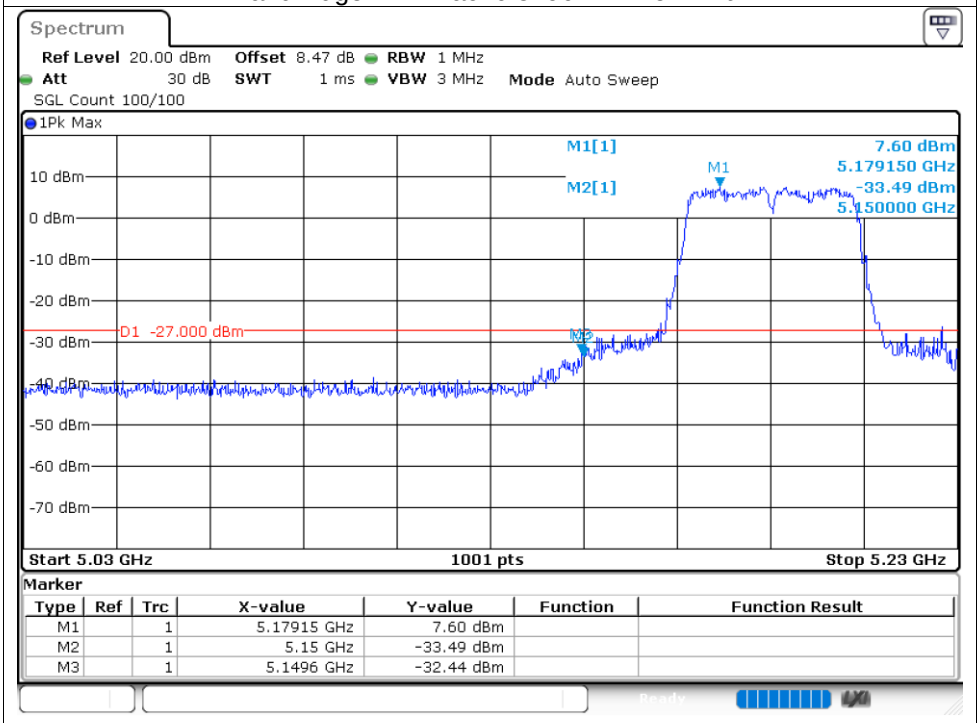
Band Edge NVNT ac20 5180MHz Low Ant1



Band Edge NVNT ac20 5240MHz High Ant1



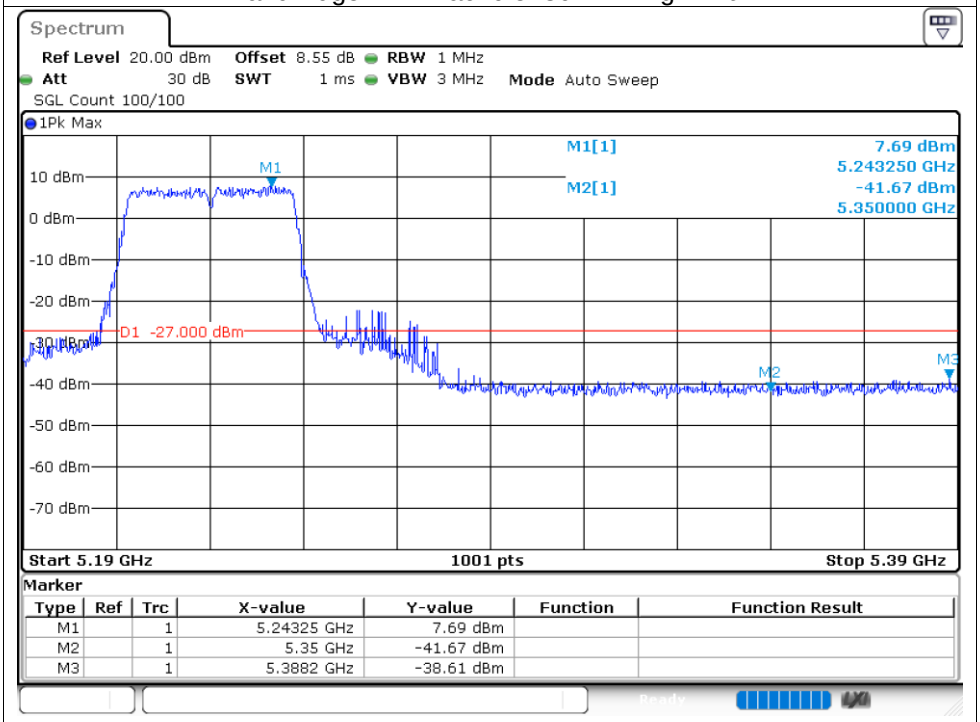
Band Edge NVNT ac40 5190MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.17915 GHz	7.60 dBm		
M2		1	5.15 GHz	-33.49 dBm		
M3		1	5.1496 GHz	-32.44 dBm		

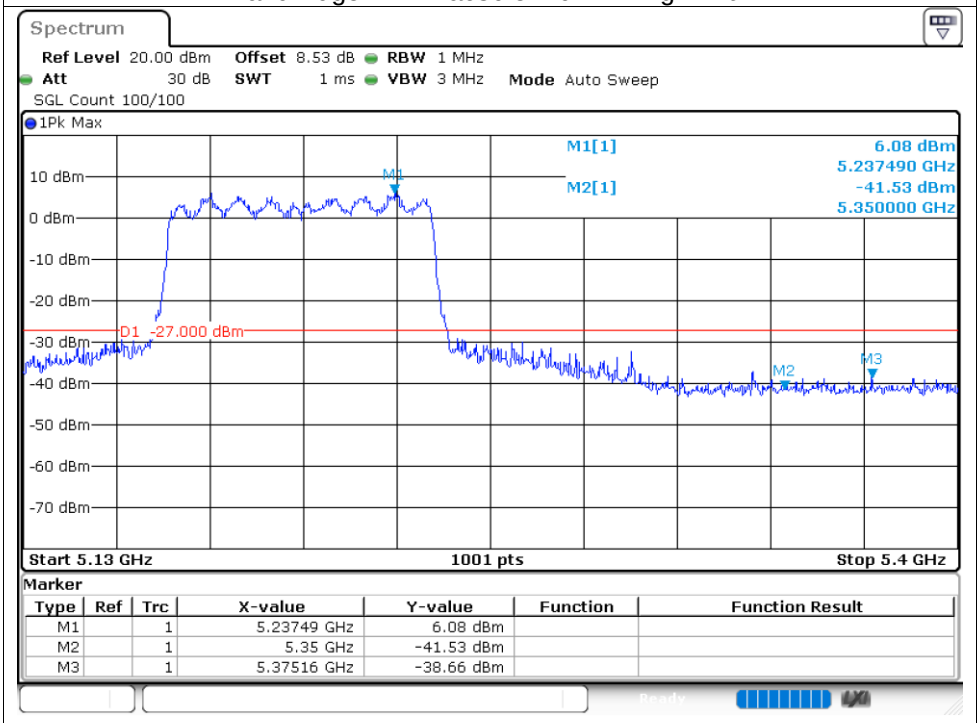
Band Edge NVNT ac40 5230MHz High Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.24325 GHz	7.69 dBm		
M2		1	5.35 GHz	-41.67 dBm		
M3		1	5.3882 GHz	-38.61 dBm		

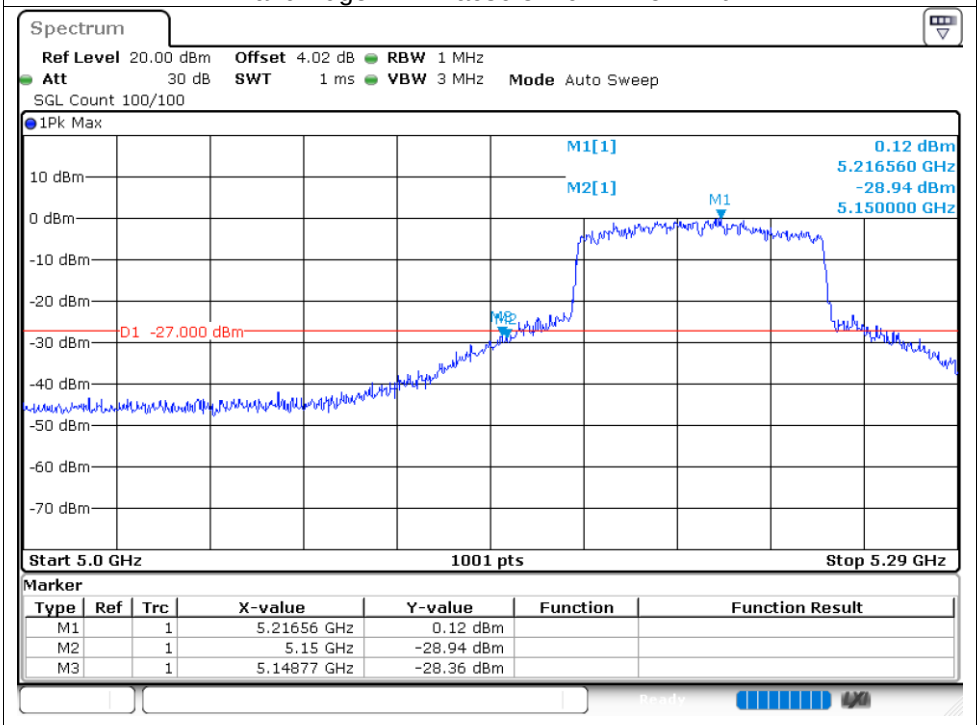
Band Edge NVNT ac80 5210MHz High Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.23749 GHz	6.08 dBm		
M2		1	5.35 GHz	-41.53 dBm		
M3		1	5.37516 GHz	-38.66 dBm		

Band Edge NVNT ac80 5210MHz low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.21656 GHz	0.12 dBm		
M2		1	5.15 GHz	-28.94 dBm		
M3		1	5.14877 GHz	-28.36 dBm		

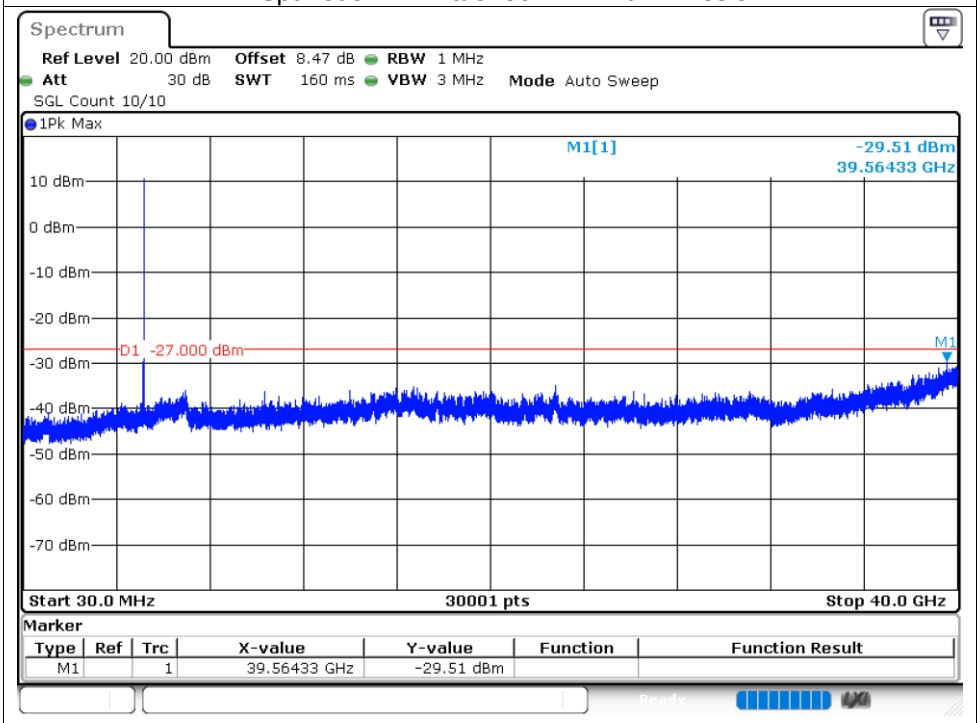
5.1.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-29.5	-27	Pass
NVNT	a	5200	Ant1	-30.43	-27	Pass
NVNT	a	5240	Ant1	-29.02	-27	Pass
NVNT	n20	5180	Ant1	-30.51	-27	Pass
NVNT	n20	5200	Ant1	-30.14	-27	Pass
NVNT	n20	5240	Ant1	-29.63	-27	Pass
NVNT	n40	5190	Ant1	-30.66	-27	Pass
NVNT	n40	5230	Ant1	-30.14	-27	Pass
NVNT	ac20	5180	Ant1	-30.12	-27	Pass
NVNT	ac20	5200	Ant1	-29.85	-27	Pass
NVNT	ac20	5240	Ant1	-30.36	-27	Pass
NVNT	ac40	5190	Ant1	-29.9	-27	Pass
NVNT	ac40	5230	Ant1	-28.79	-27	Pass
NVNT	ac80	5210	Ant1	-29.61	-27	Pass

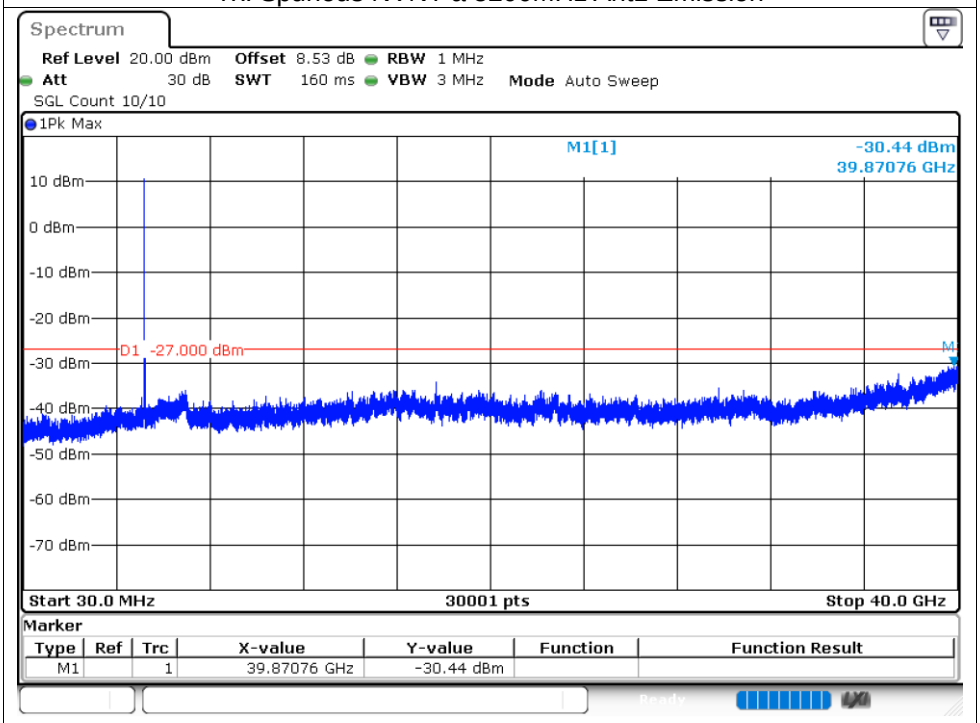
Note: This test has increased antenna gain.

Test Graphs

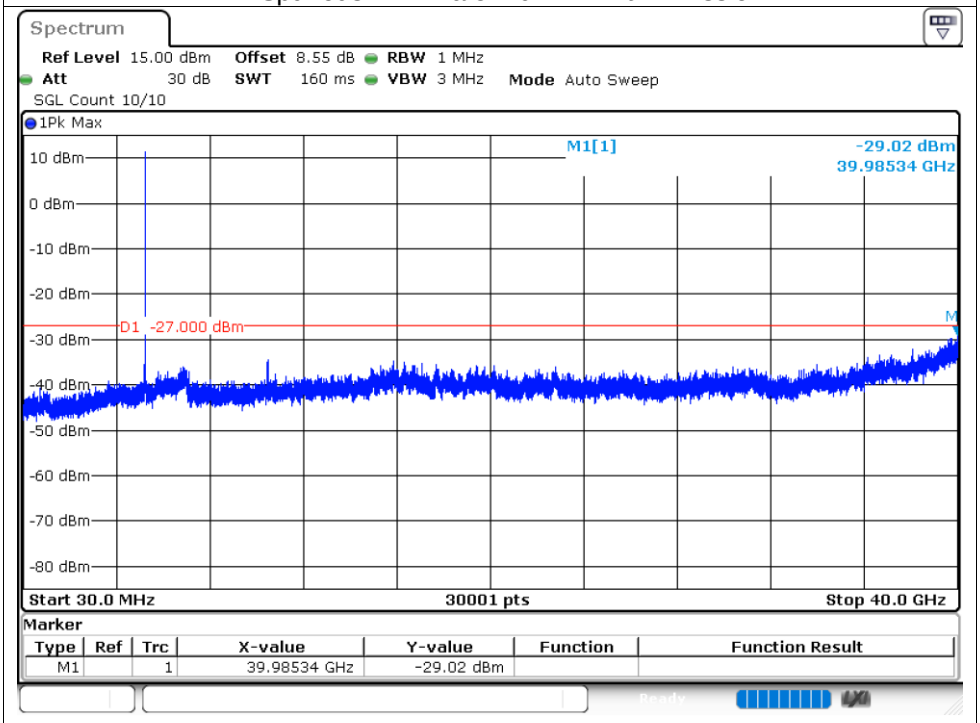
Tx. Spurious NVNT a 5180MHz Ant1 Emission



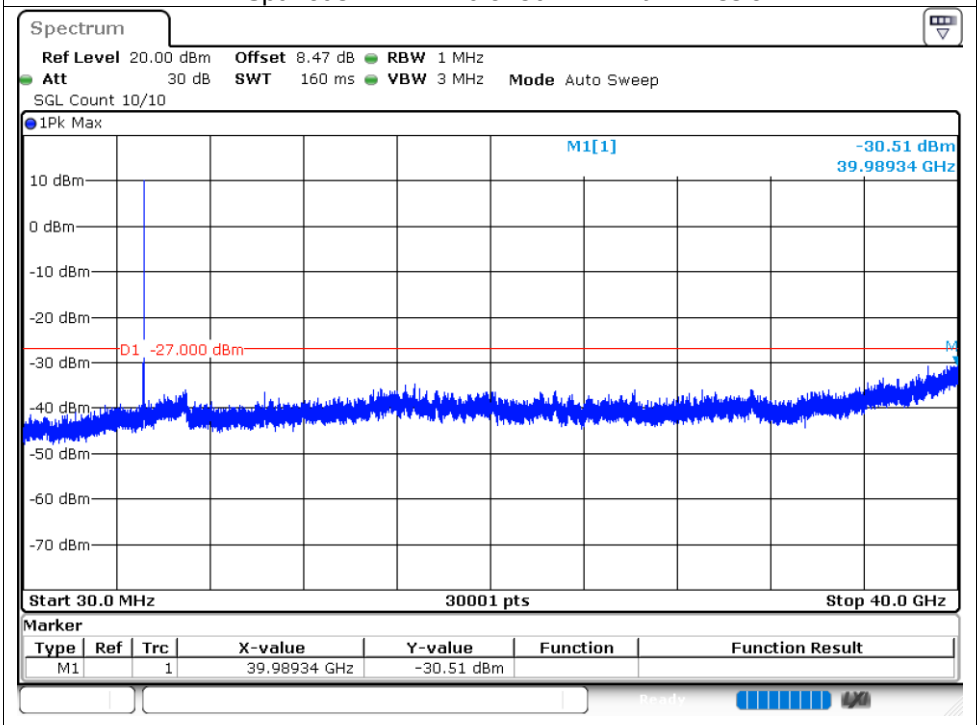
Tx. Spurious NVNT a 5200MHz Ant1 Emission



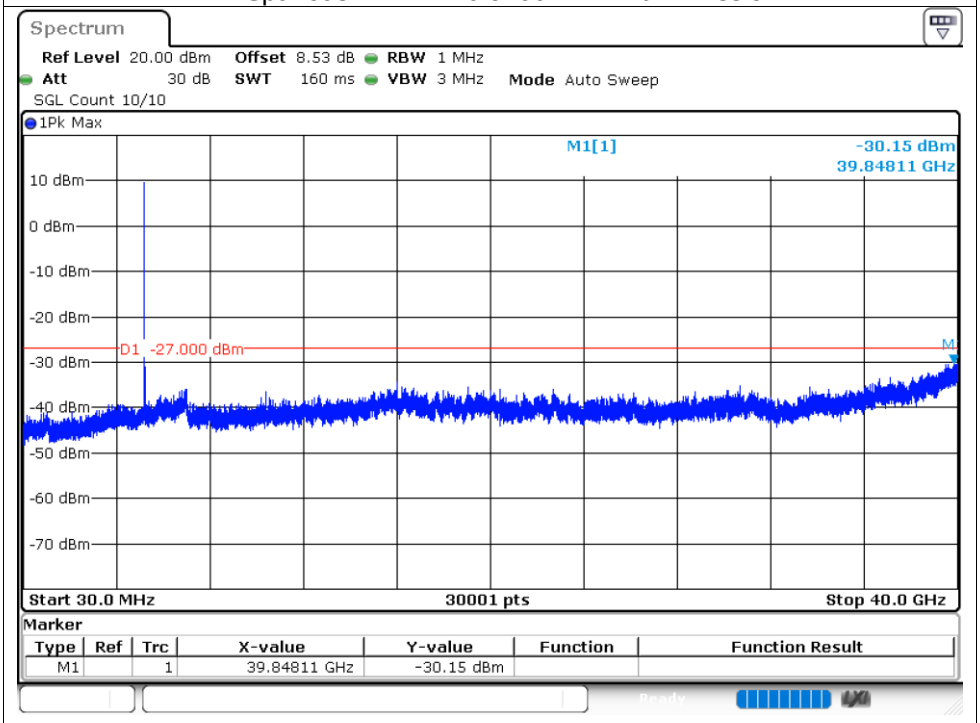
Tx. Spurious NVNT a 5240MHz Ant1 Emission



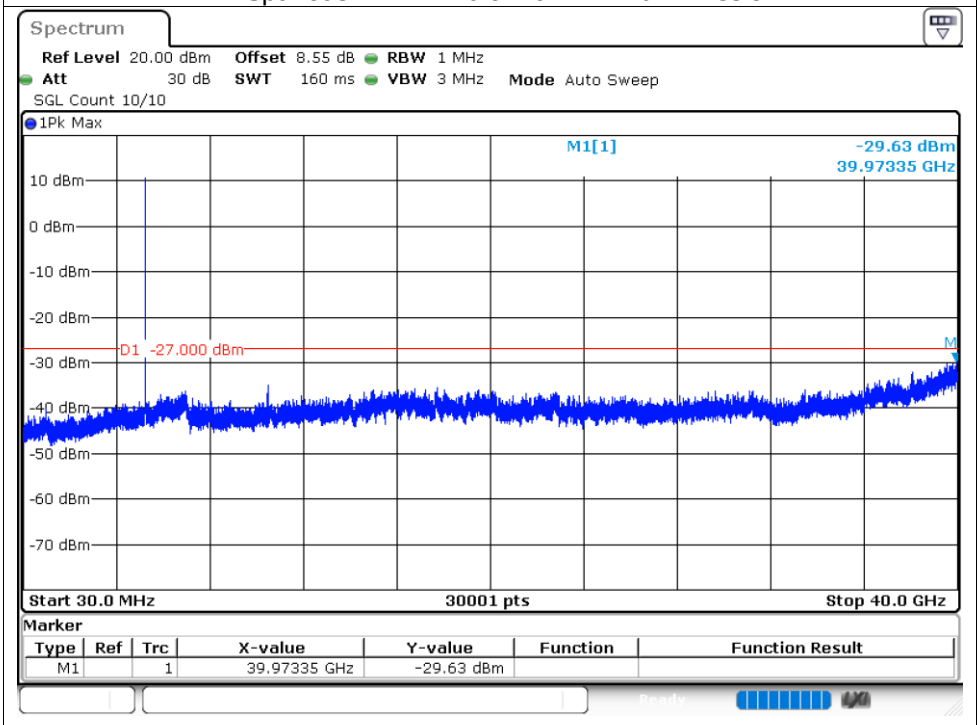
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



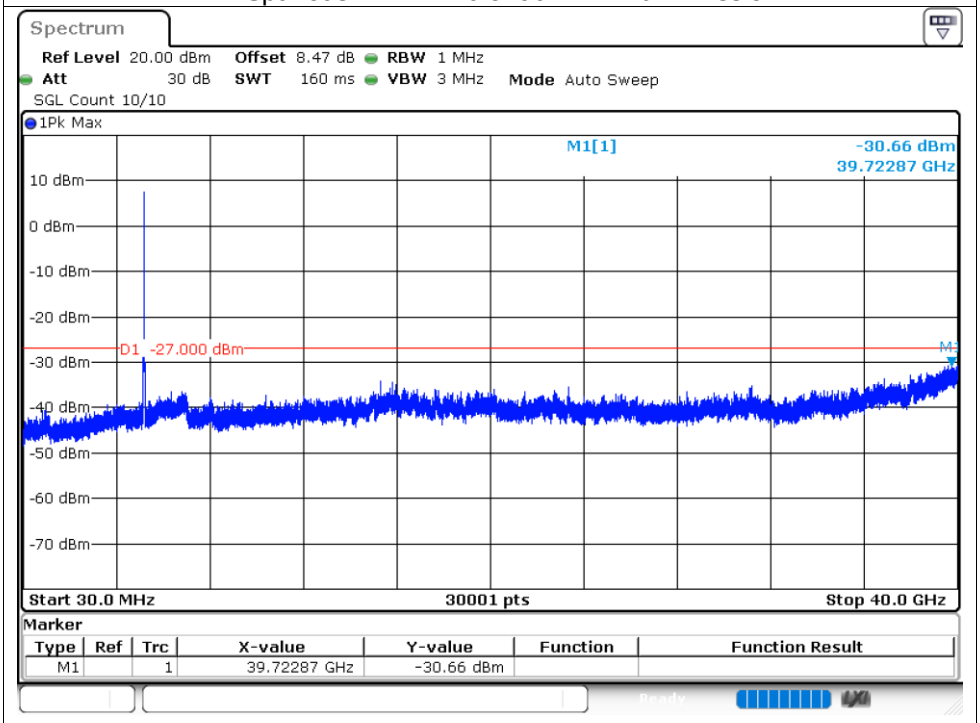
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



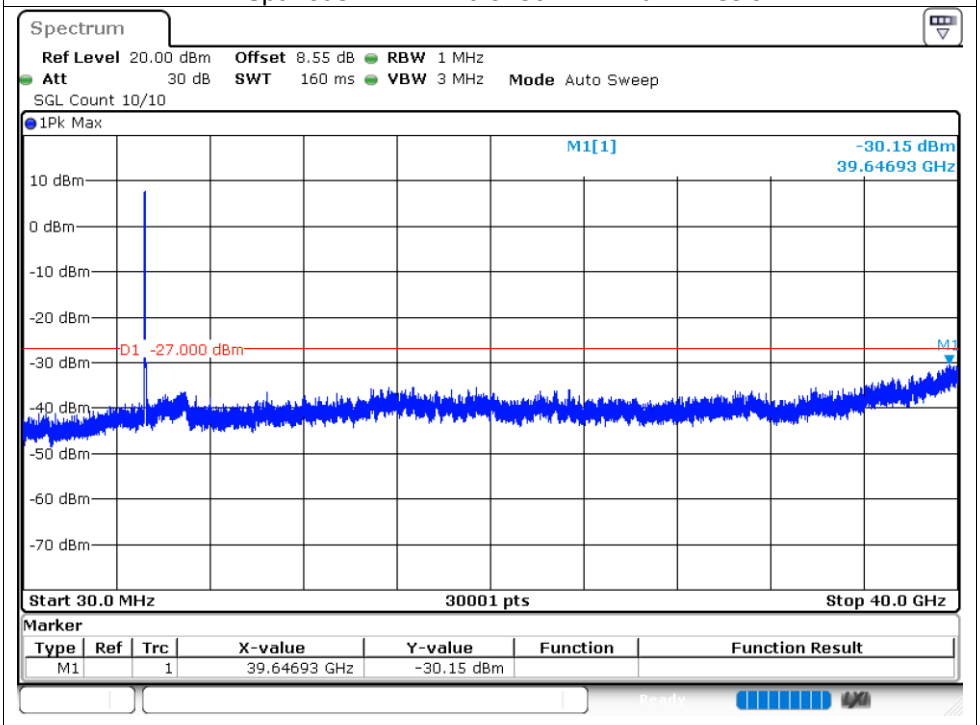
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



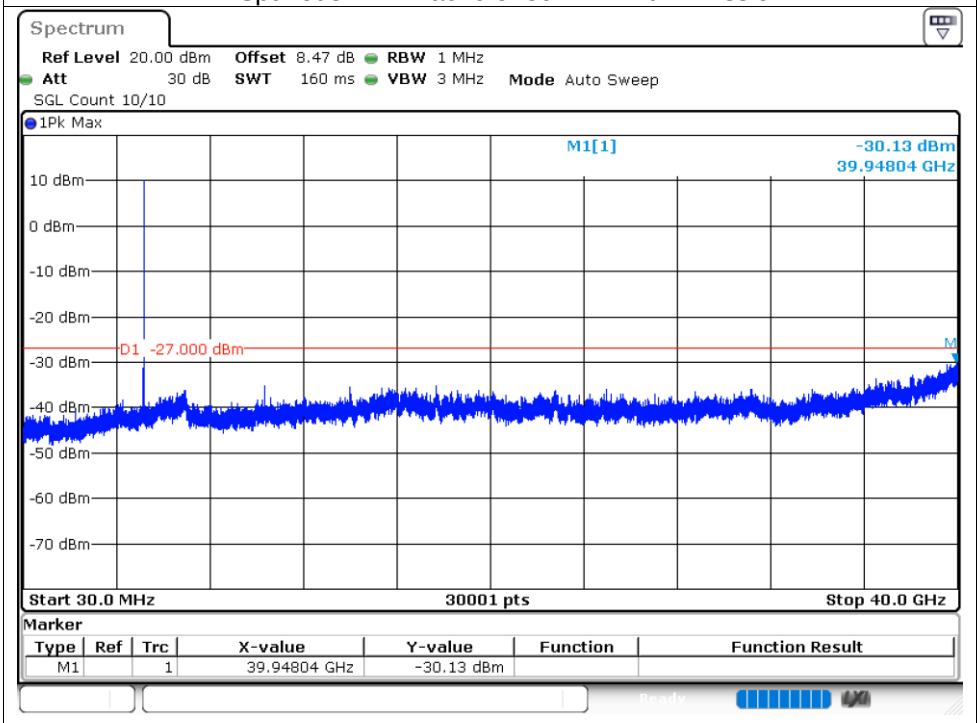
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



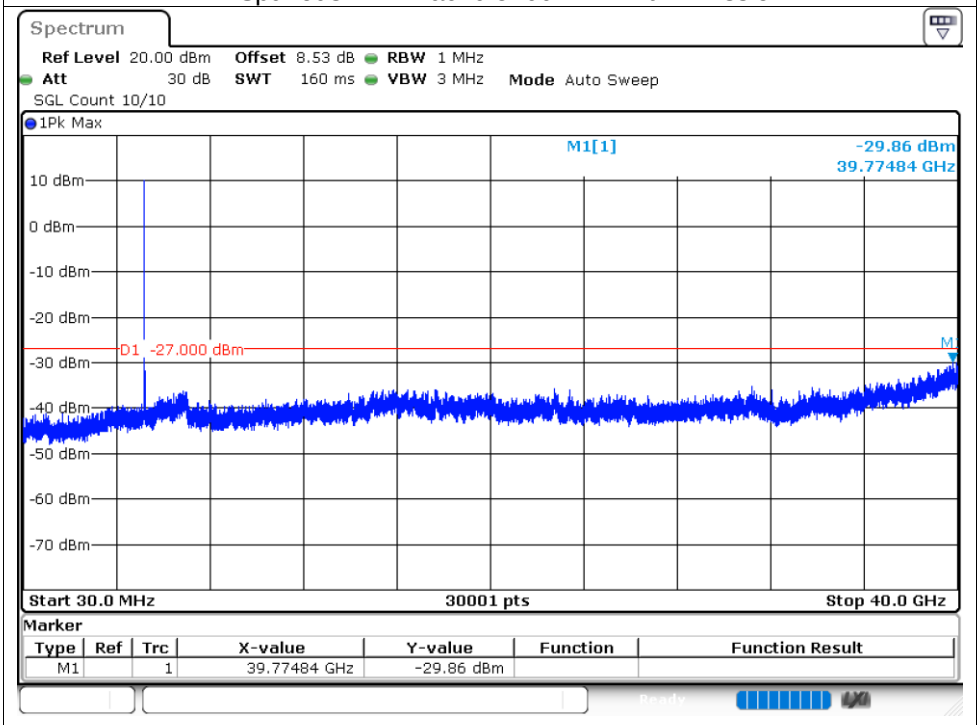
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



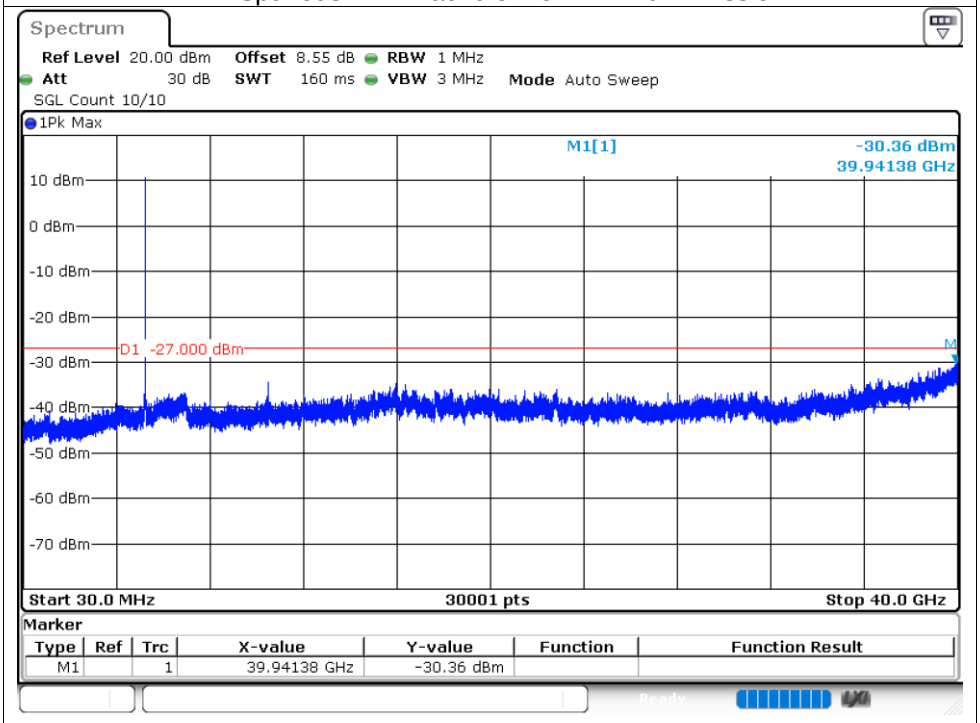
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



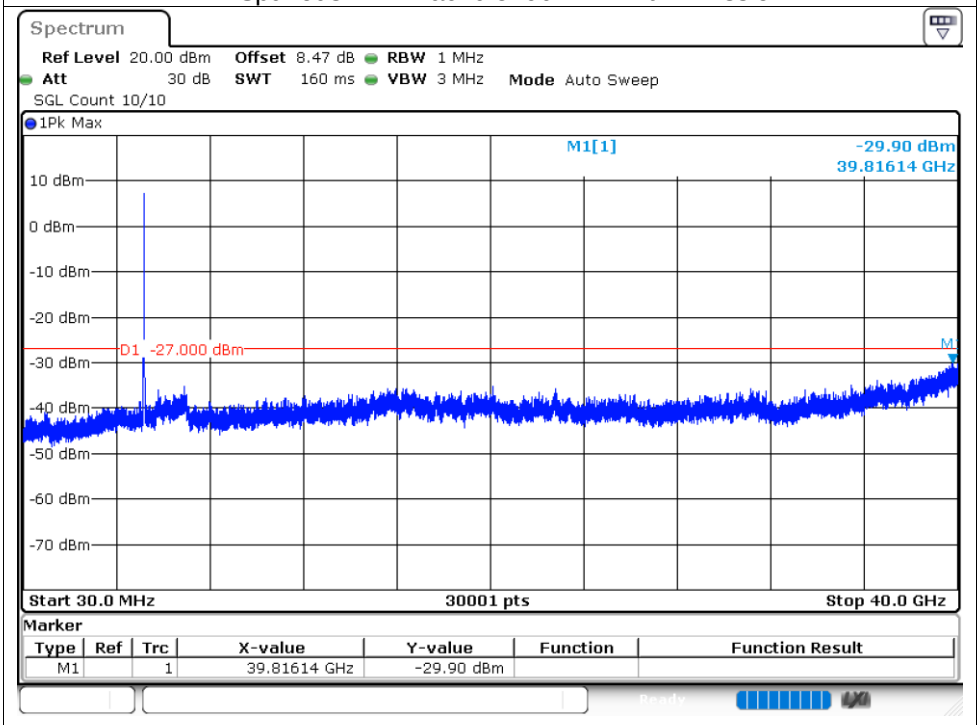
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



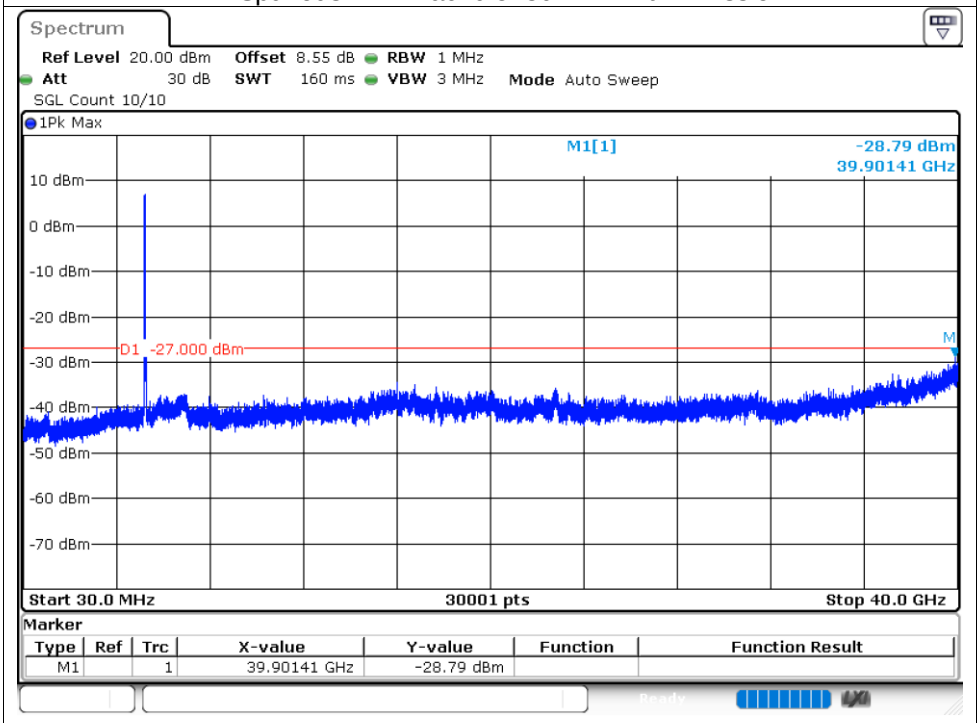
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



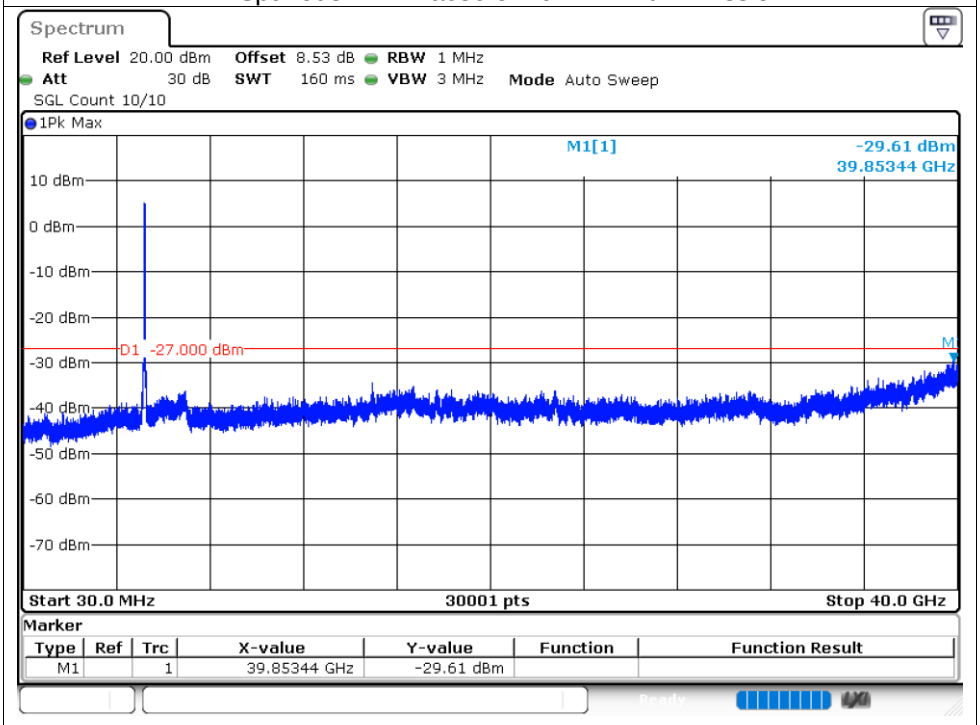
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



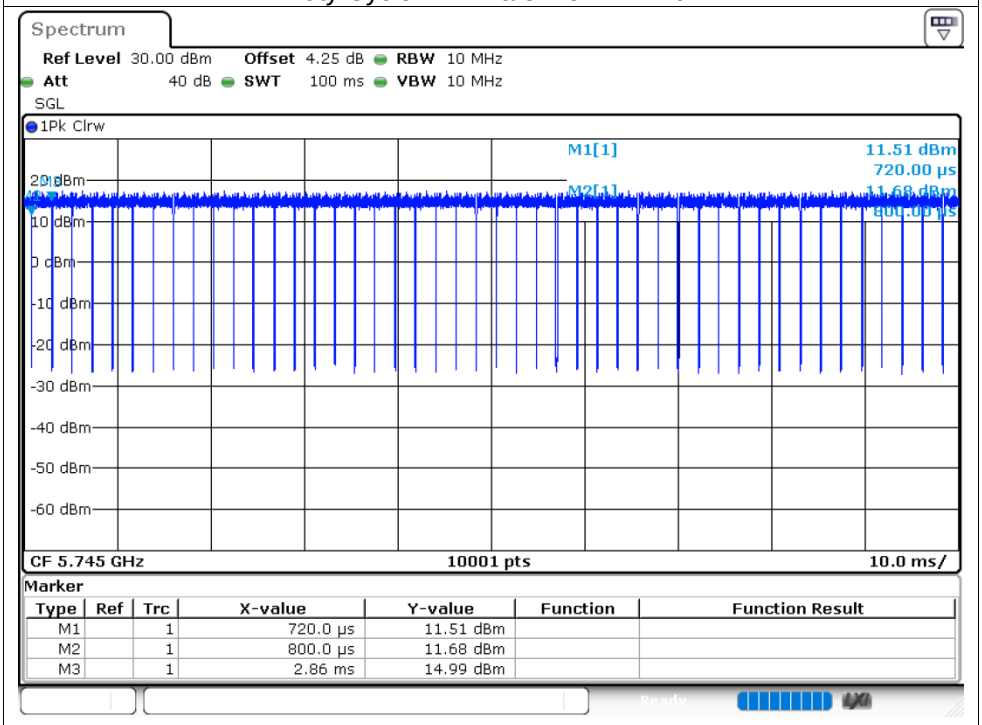
5.2 5.8G WIFI

5.2.1 DUTY CYCLE

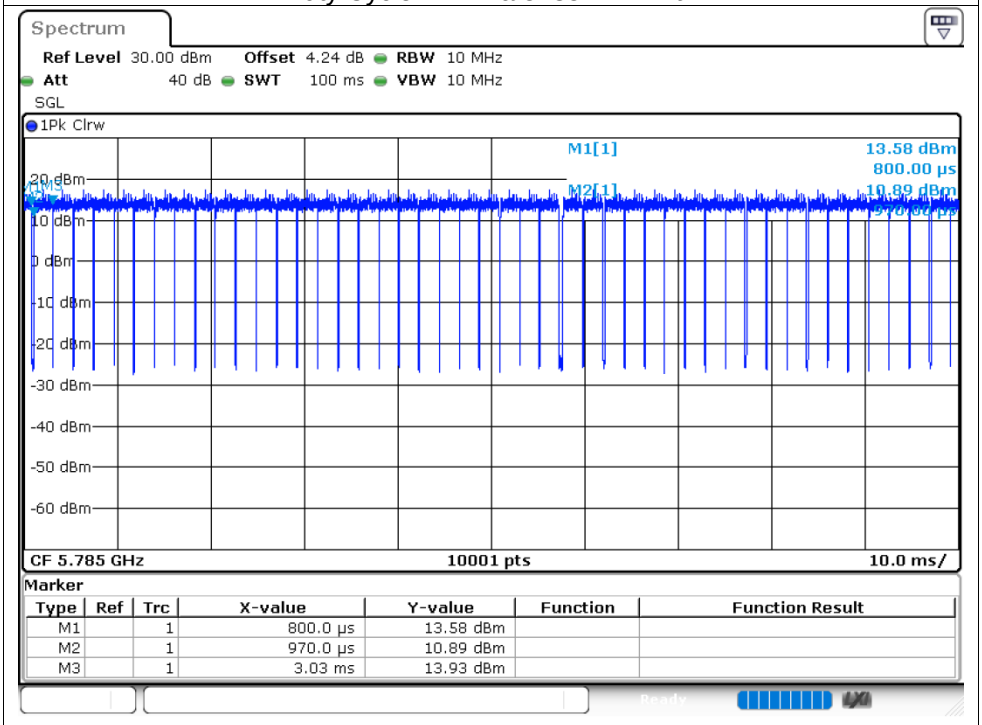
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	95.65	0.19	0.49
NVNT	a	5785	Ant1	95.02	0.22	0.49
NVNT	a	5825	Ant1	95.39	0.2	0.48
NVNT	n20	5745	Ant1	95.27	0.21	0.52
NVNT	n20	5785	Ant1	95.13	0.22	0.52
NVNT	n20	5825	Ant1	95.12	0.22	0.52
NVNT	n40	5755	Ant1	91.46	0.39	1.05
NVNT	n40	5795	Ant1	91.38	0.39	1.05
NVNT	ac20	5745	Ant1	95.61	0.19	0.52
NVNT	ac20	5785	Ant1	94.84	0.23	0.52
NVNT	ac20	5825	Ant1	95.2	0.21	0.52
NVNT	ac40	5755	Ant1	90.48	0.43	1.05
NVNT	ac40	5795	Ant1	90.9	0.41	1.05
NVNT	ac80	5775	Ant1	83.17	0.8	2.17

Test Graphs

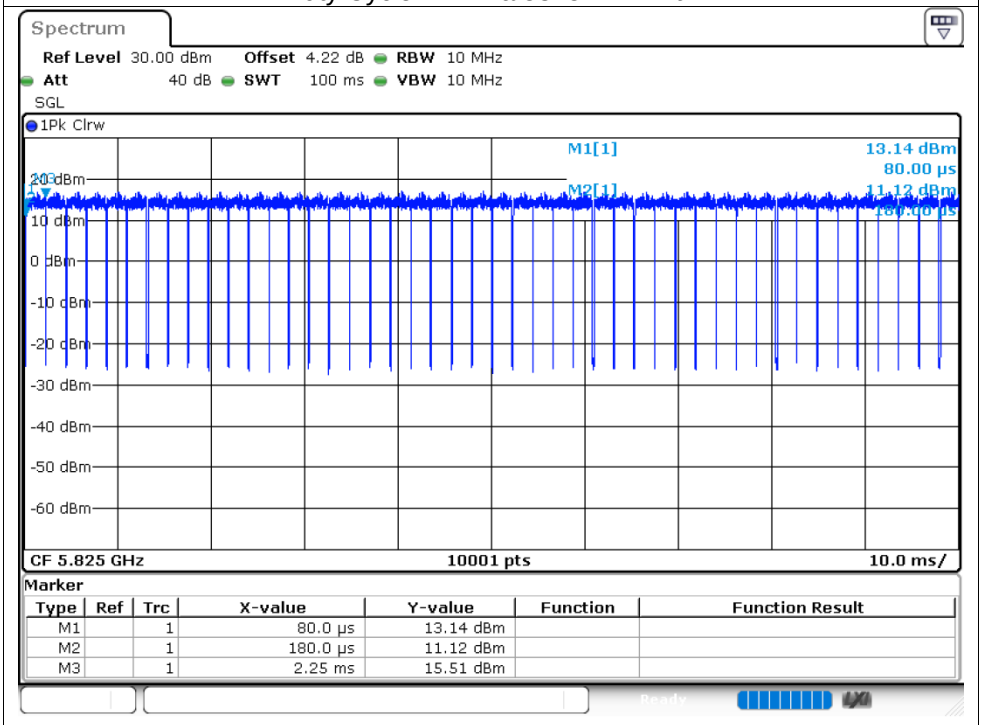
Duty Cycle NVNT a 5745MHz Ant1



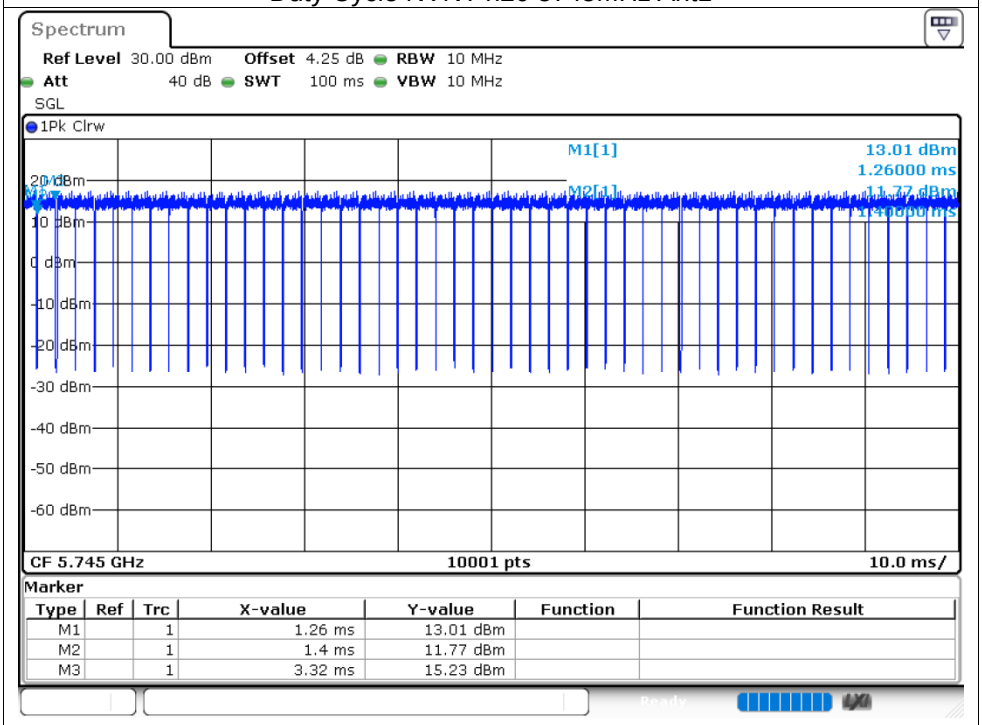
Duty Cycle NVNT a 5785MHz Ant1



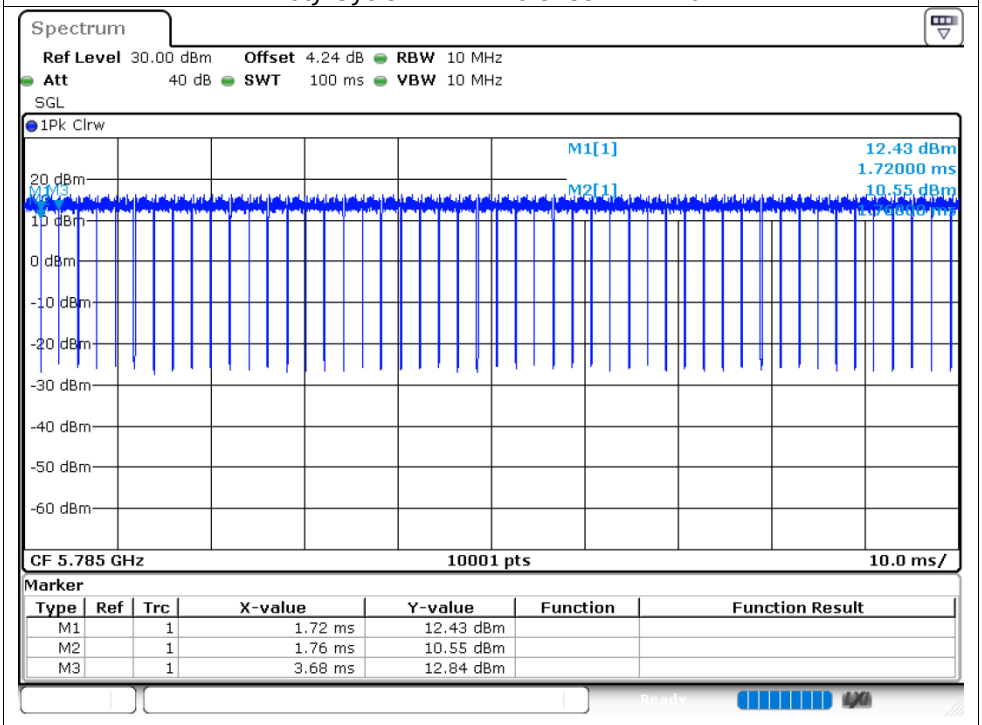
Duty Cycle NVNT a 5825MHz Ant1



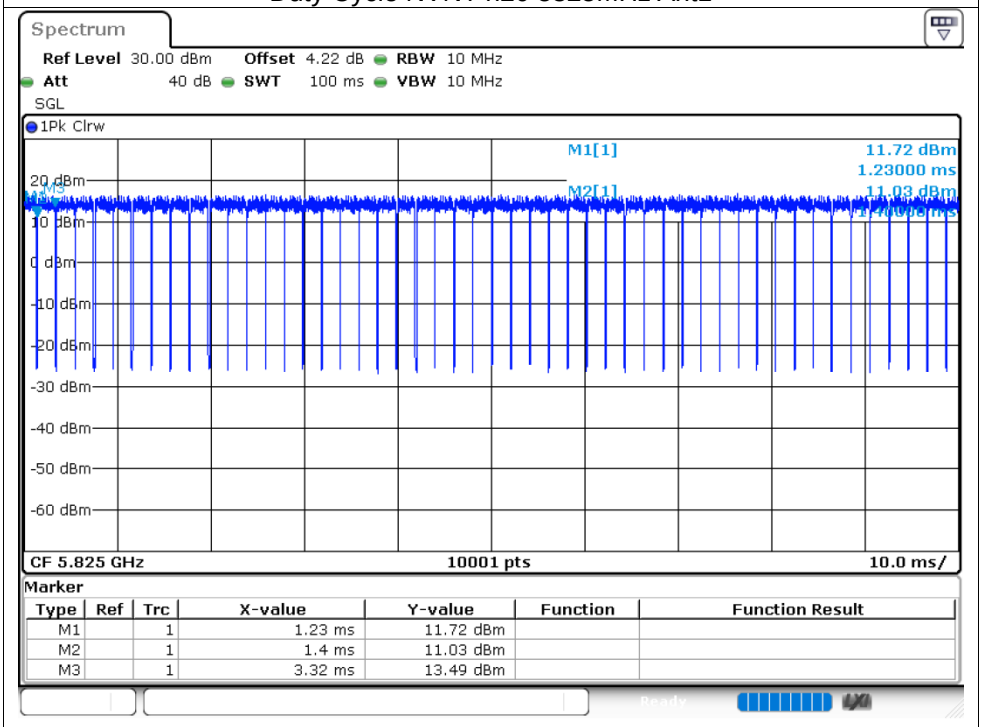
Duty Cycle NVNT n20 5745MHz Ant1



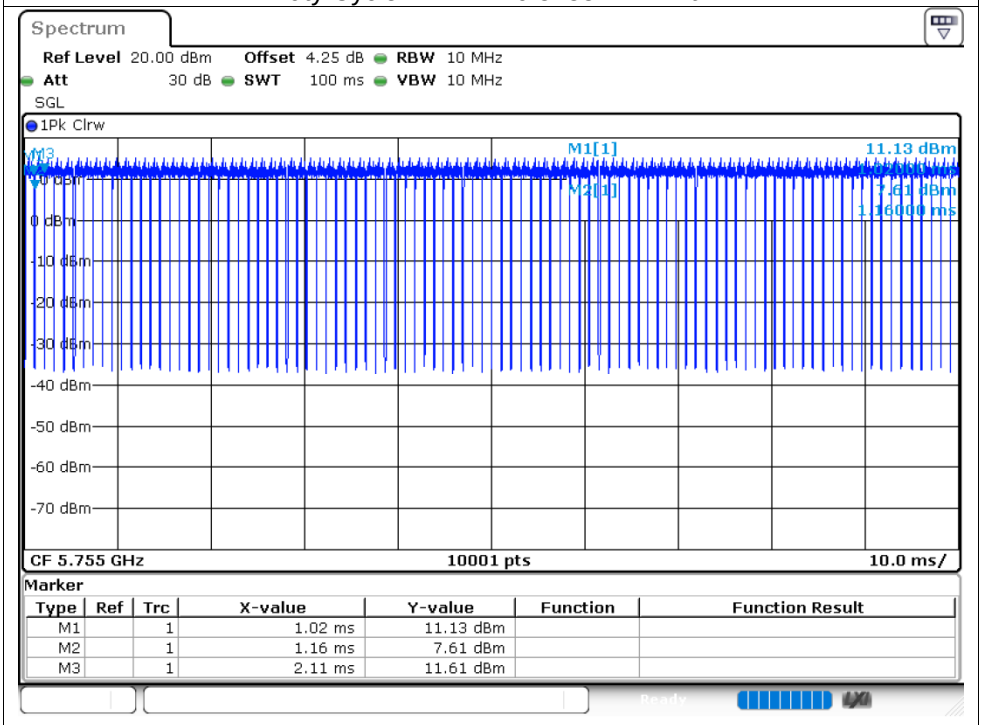
Duty Cycle NVNT n20 5785MHz Ant1



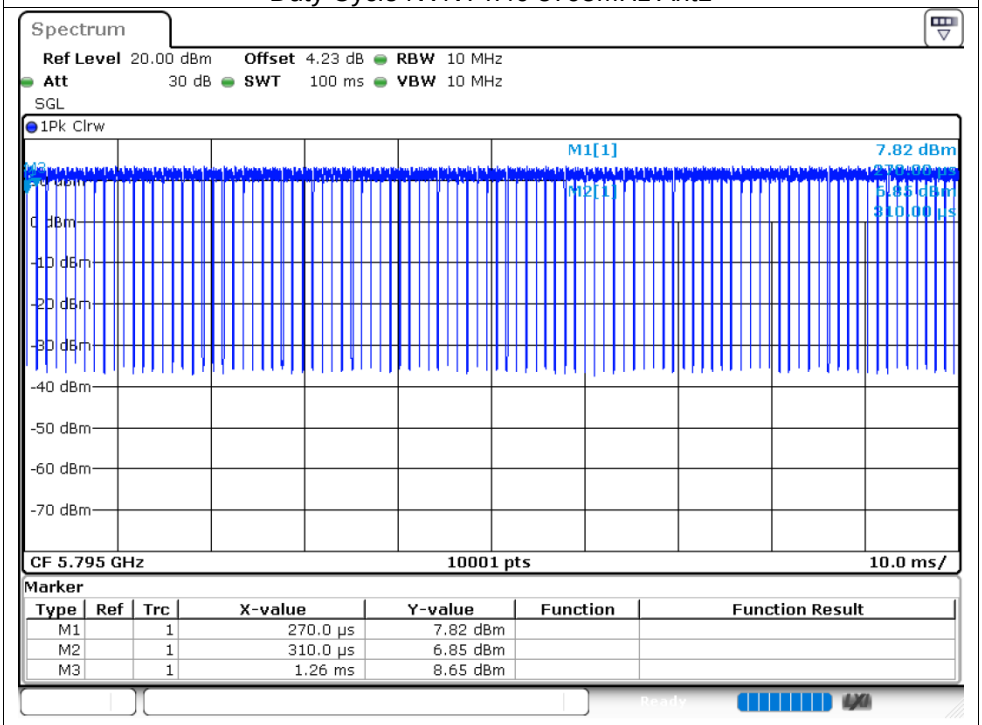
Duty Cycle NVNT n20 5825MHz Ant1



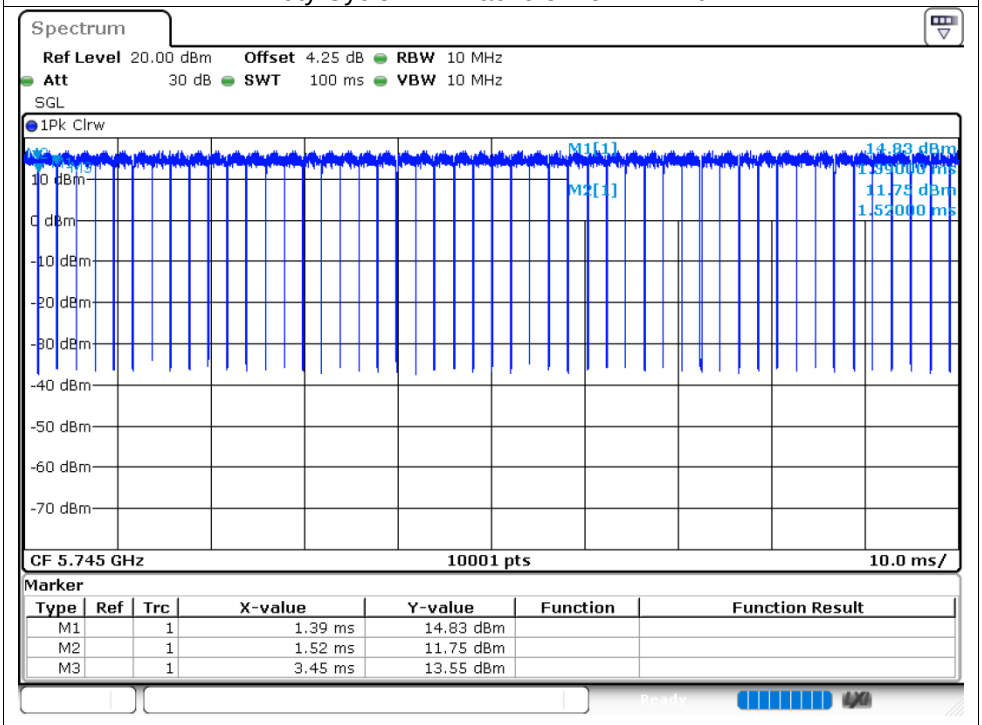
Duty Cycle NVNT n40 5755MHz Ant1



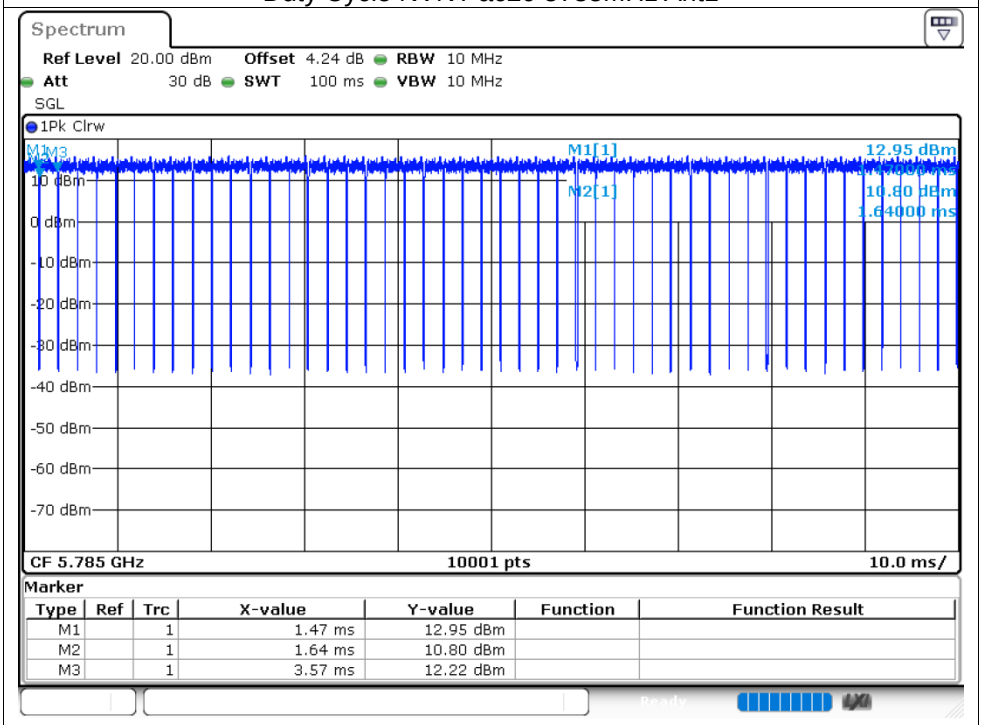
Duty Cycle NVNT n40 5795MHz Ant1



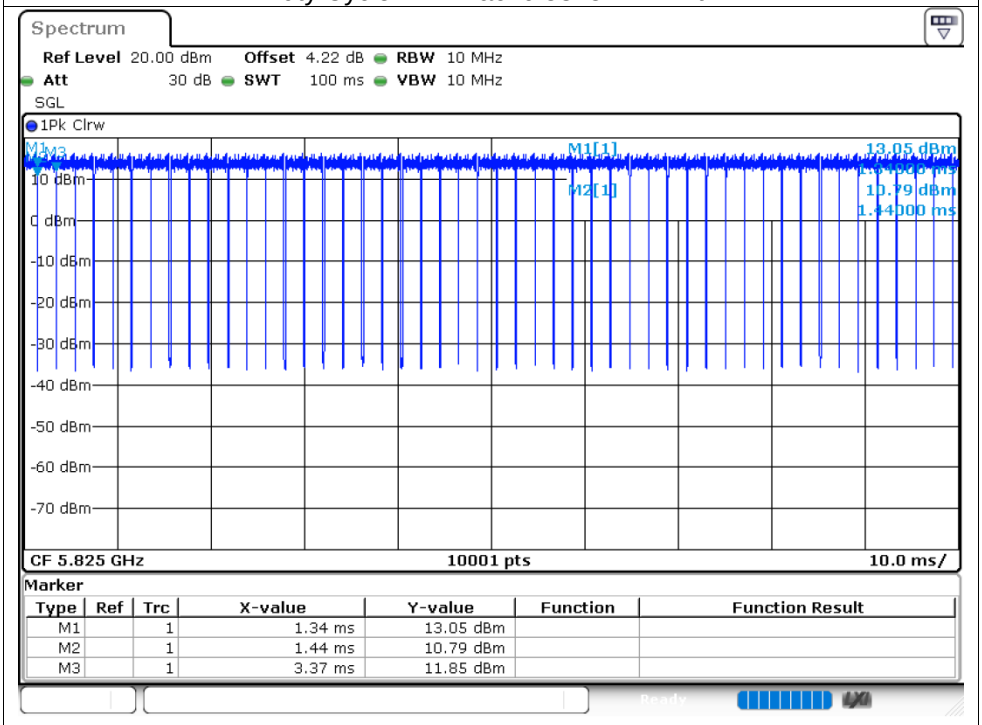
Duty Cycle NVNT ac20 5745MHz Ant1



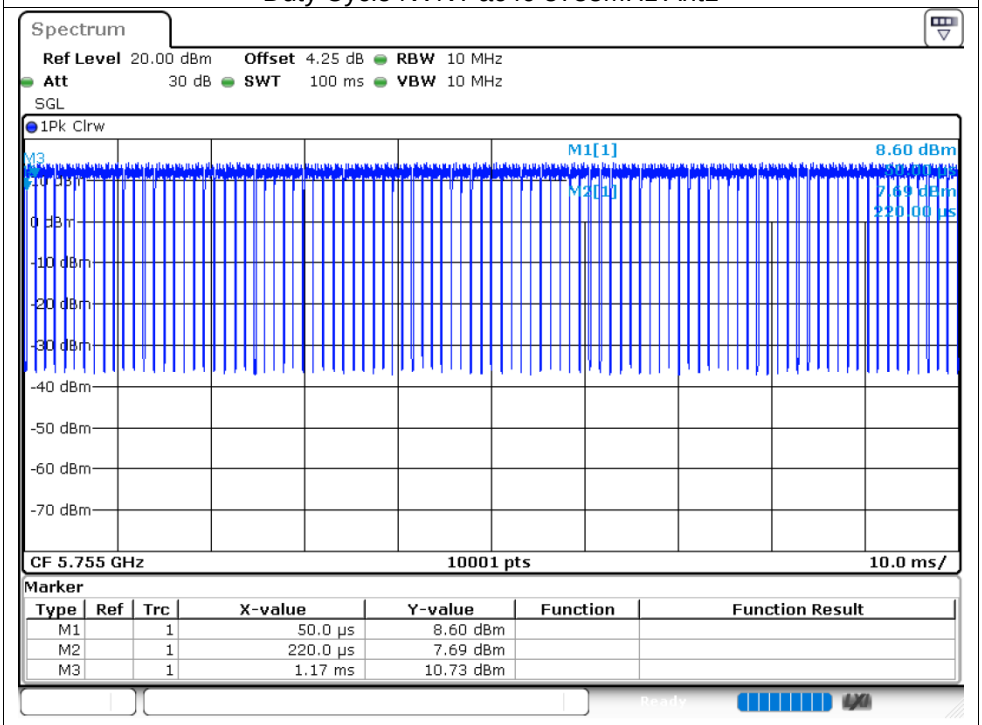
Duty Cycle NVNT ac20 5785MHz Ant1



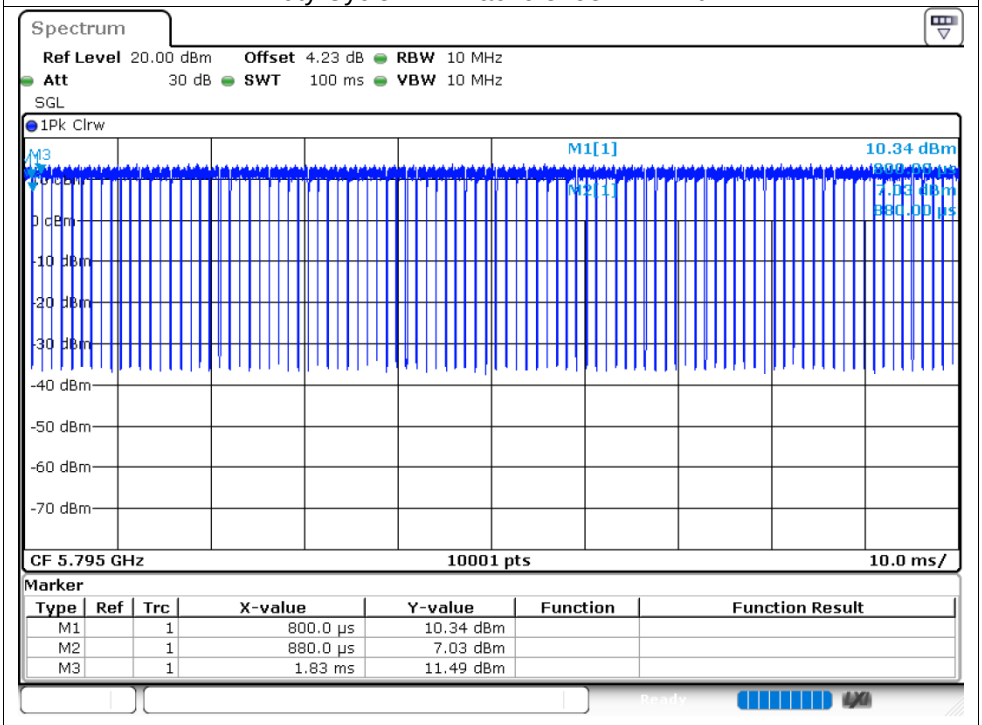
Duty Cycle NVNT ac20 5825MHz Ant1



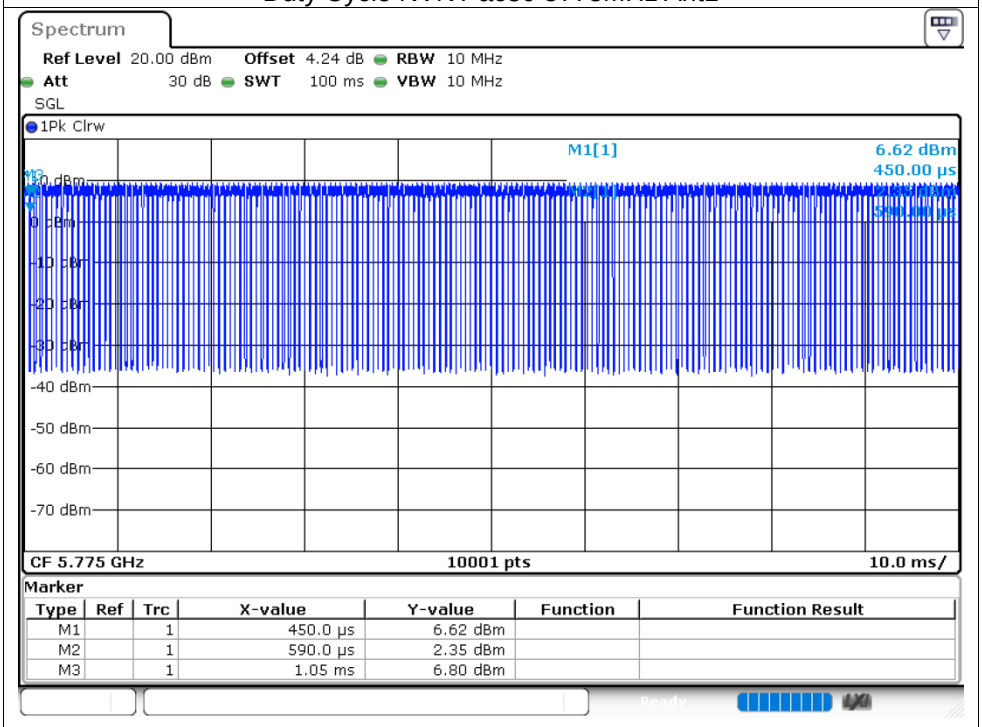
Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



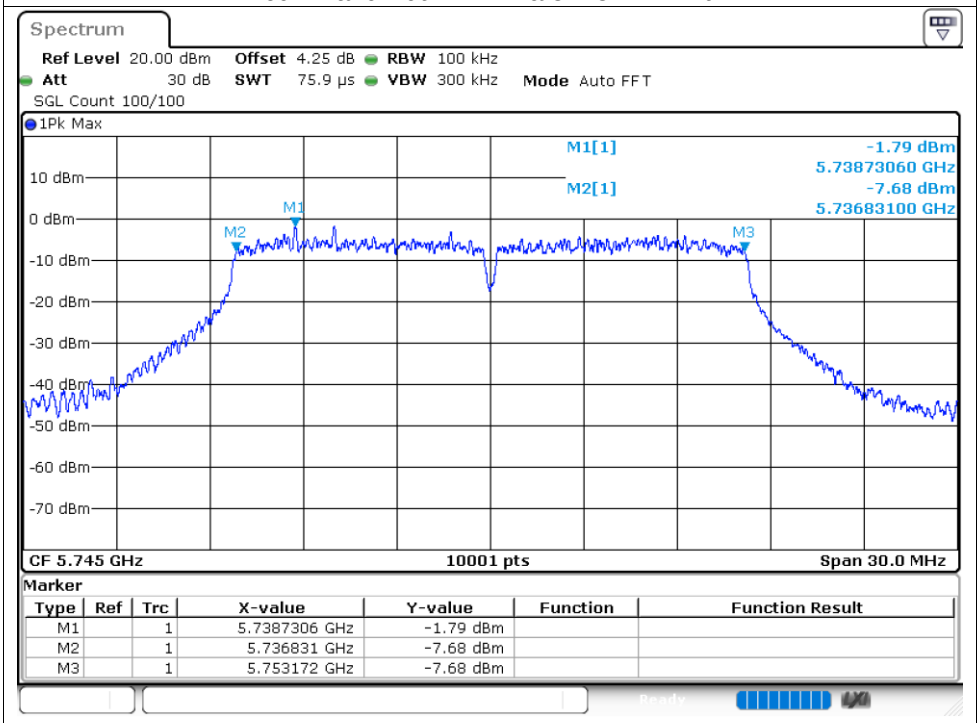
5.2.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	10.7	30	Pass
NVNT	a	5785	Ant1	11.2	30	Pass
NVNT	a	5825	Ant1	10.86	30	Pass
NVNT	n20	5745	Ant1	10.57	30	Pass
NVNT	n20	5785	Ant1	10.83	30	Pass
NVNT	n20	5825	Ant1	10.96	30	Pass
NVNT	n40	5755	Ant1	10.83	30	Pass
NVNT	n40	5795	Ant1	11.18	30	Pass
NVNT	ac20	5745	Ant1	10.7	30	Pass
NVNT	ac20	5785	Ant1	10.86	30	Pass
NVNT	ac20	5825	Ant1	10.71	30	Pass
NVNT	ac40	5755	Ant1	10.68	30	Pass
NVNT	ac40	5795	Ant1	11.12	30	Pass
NVNT	ac80	5775	Ant1	10.82	30	Pass

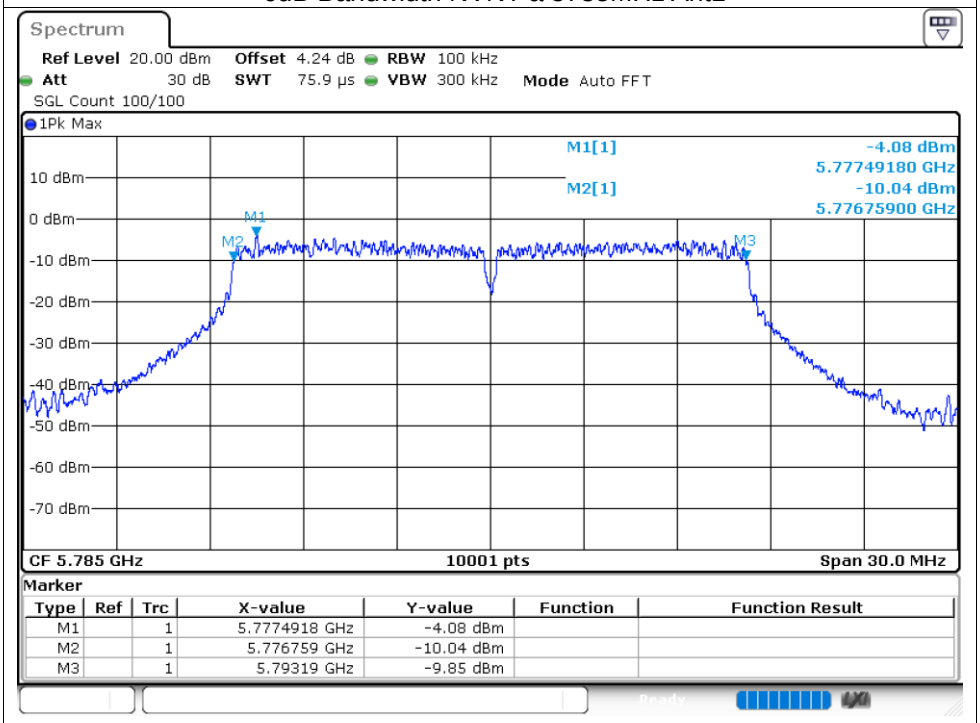
5.2.3 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.341	0.5	Pass
NVNT	a	5785	Ant1	16.431	0.5	Pass
NVNT	a	5825	Ant1	16.545	0.5	Pass
NVNT	n20	5745	Ant1	17.574	0.5	Pass
NVNT	n20	5785	Ant1	17.691	0.5	Pass
NVNT	n20	5825	Ant1	16.899	0.5	Pass
NVNT	n40	5755	Ant1	35.082	0.5	Pass
NVNT	n40	5795	Ant1	35.118	0.5	Pass
NVNT	ac20	5745	Ant1	17.7	0.5	Pass
NVNT	ac20	5785	Ant1	17.682	0.5	Pass
NVNT	ac20	5825	Ant1	17.613	0.5	Pass
NVNT	ac40	5755	Ant1	35.148	0.5	Pass
NVNT	ac40	5795	Ant1	35.148	0.5	Pass
NVNT	ac80	5775	Ant1	75.06	0.5	Pass

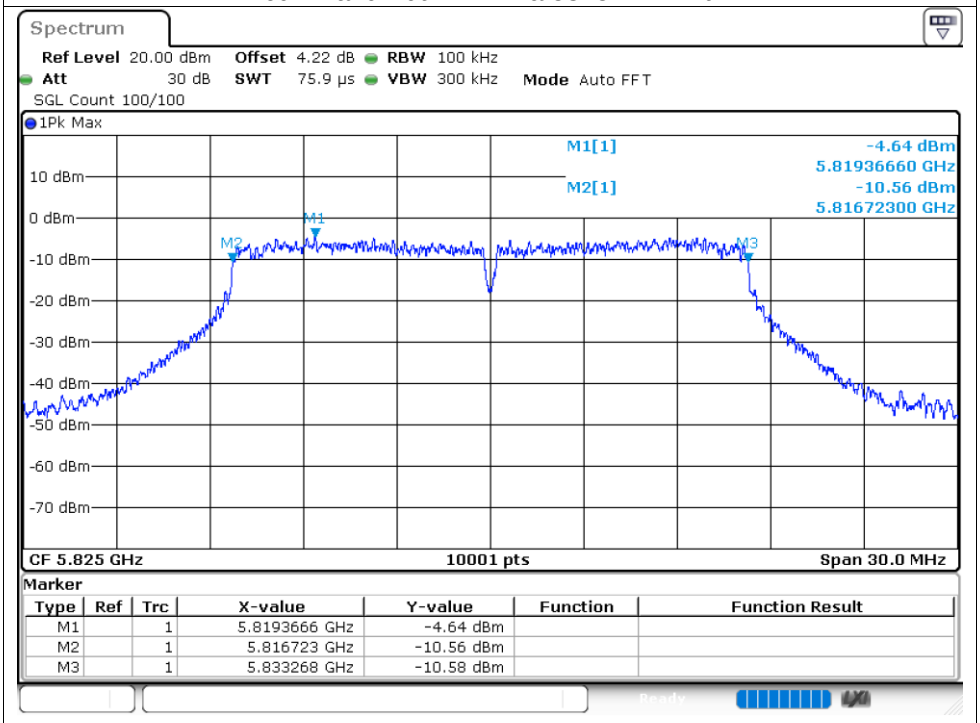
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1



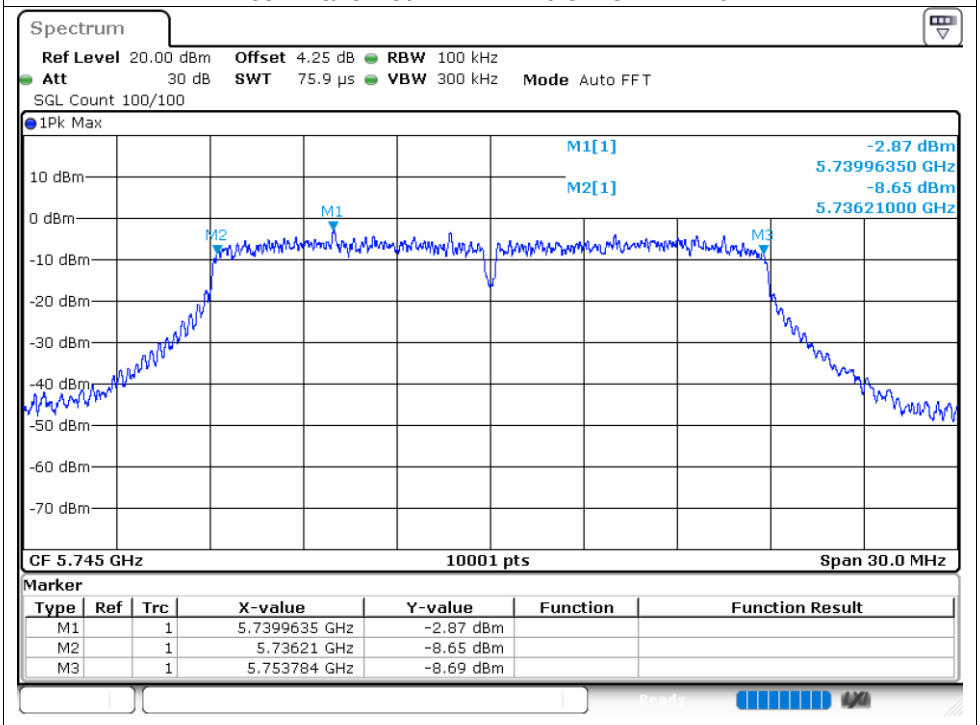
-6dB Bandwidth NVNT a 5785MHz Ant1



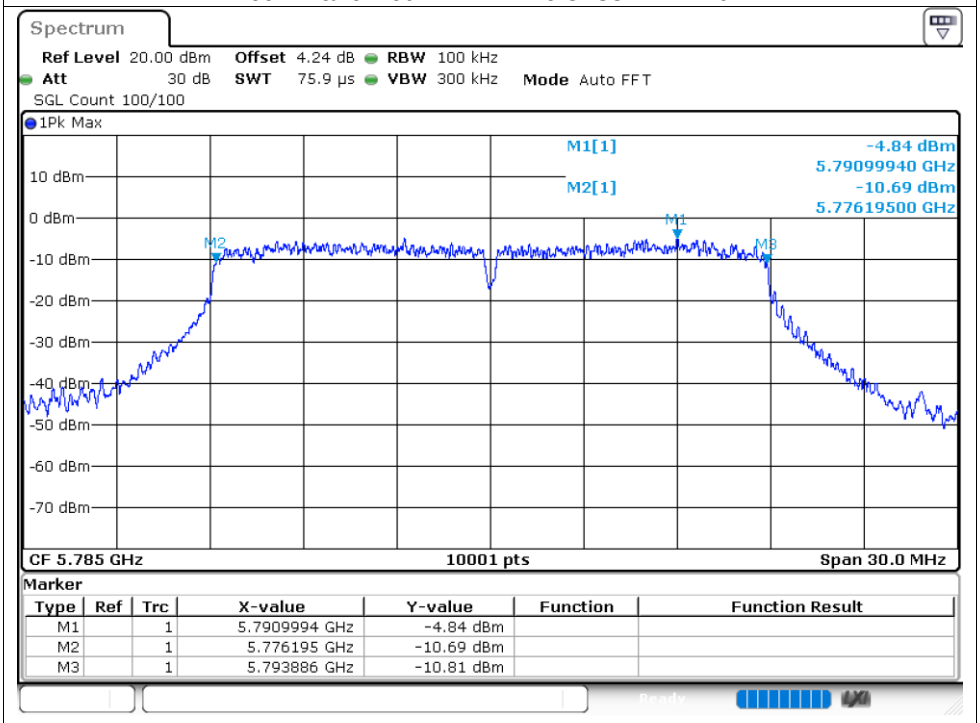
-6dB Bandwidth NVNT a 5825MHz Ant1



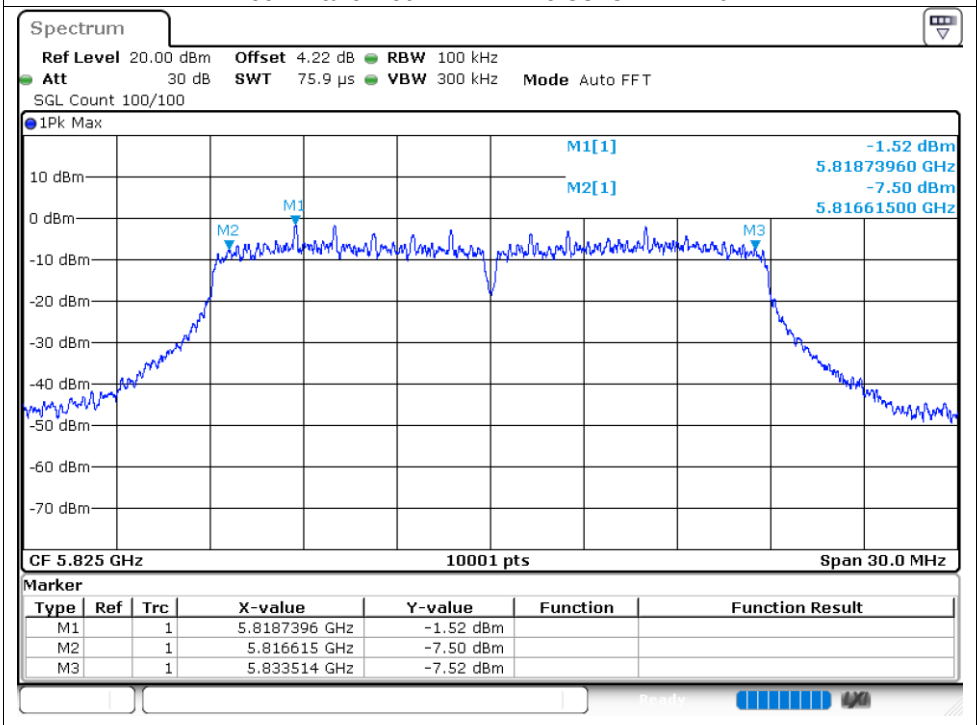
-6dB Bandwidth NVNT n20 5745MHz Ant1



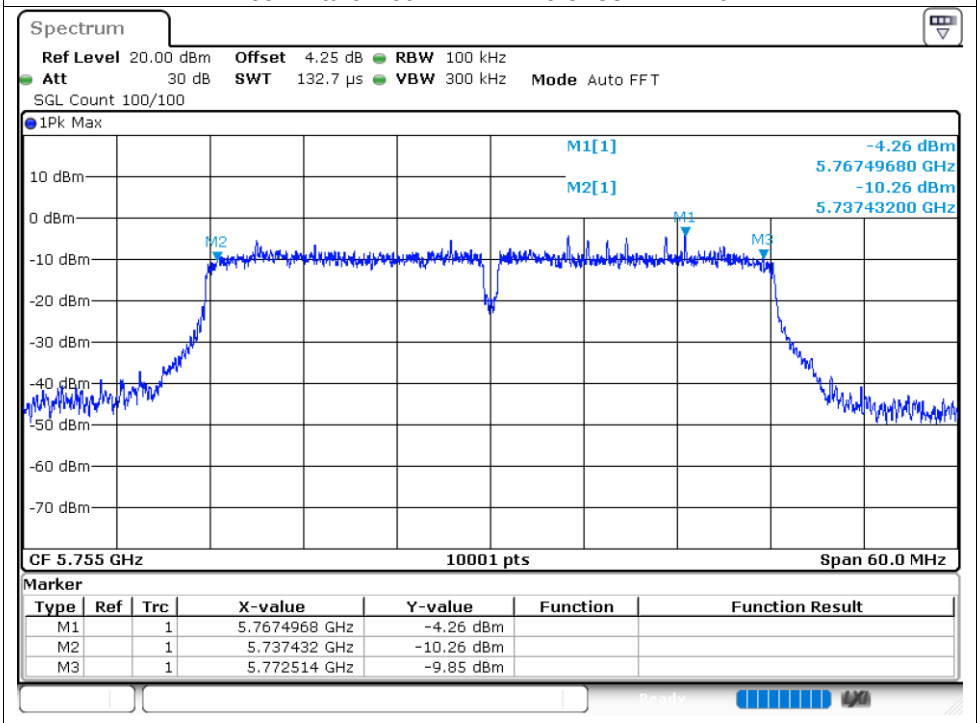
-6dB Bandwidth NVNT n20 5785MHz Ant1



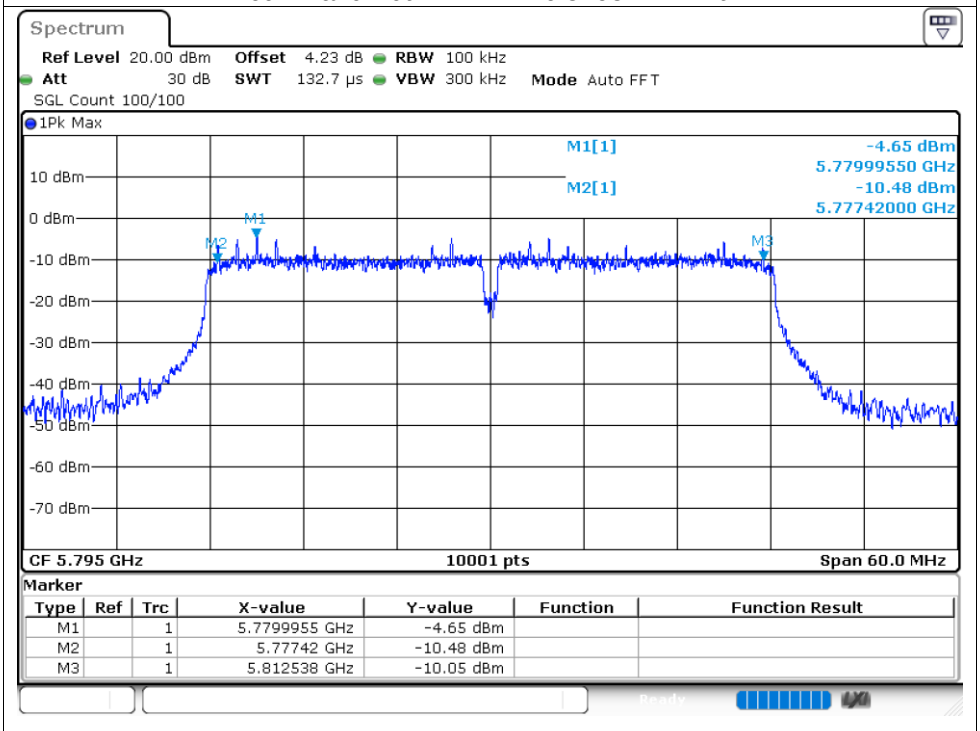
-6dB Bandwidth NVNT n20 5825MHz Ant1



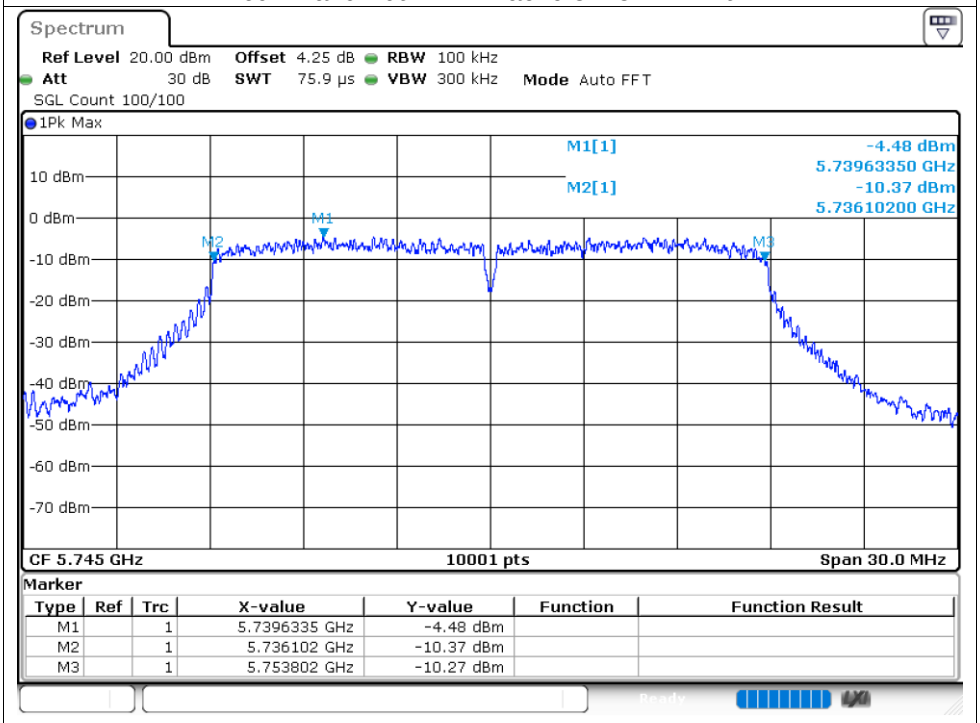
-6dB Bandwidth NVNT n40 5755MHz Ant1



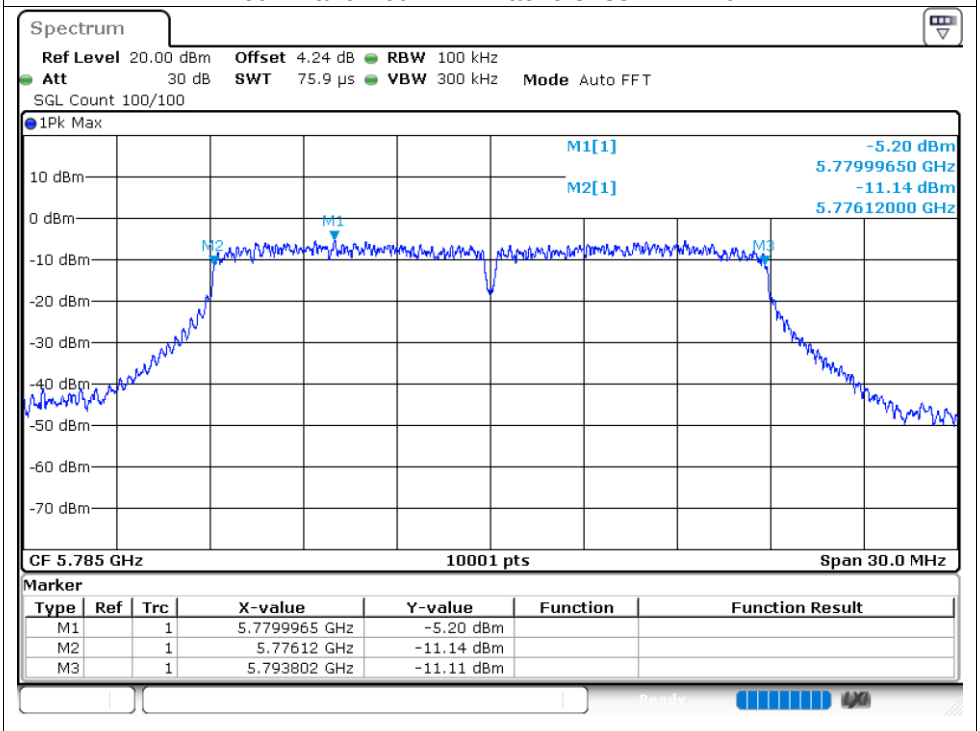
-6dB Bandwidth NVNT n40 5795MHz Ant1



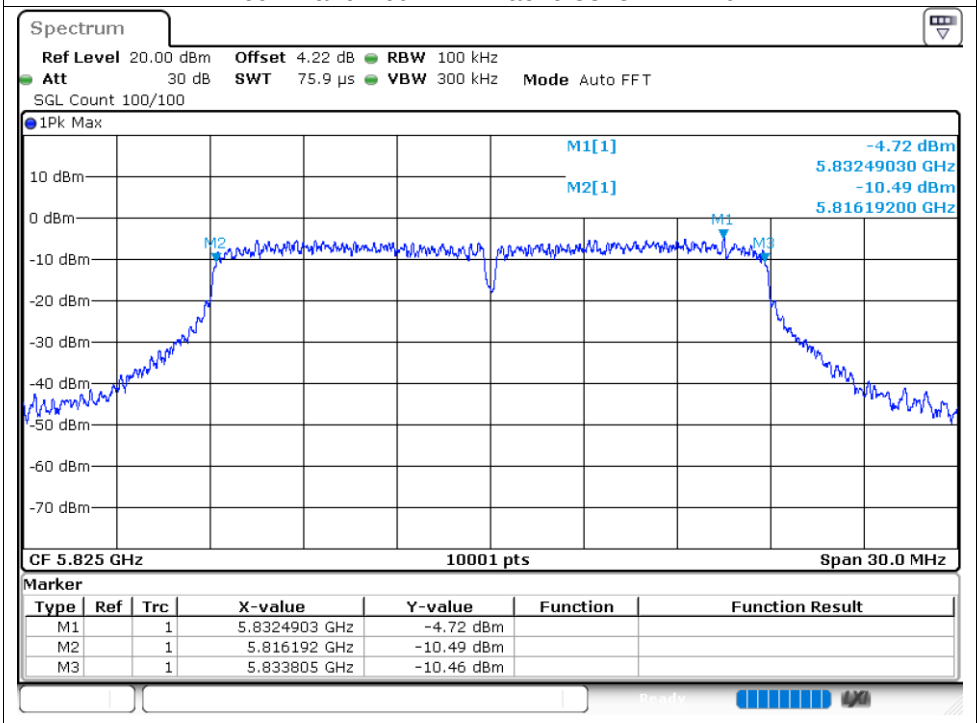
-6dB Bandwidth NVNT ac20 5745MHz Ant1



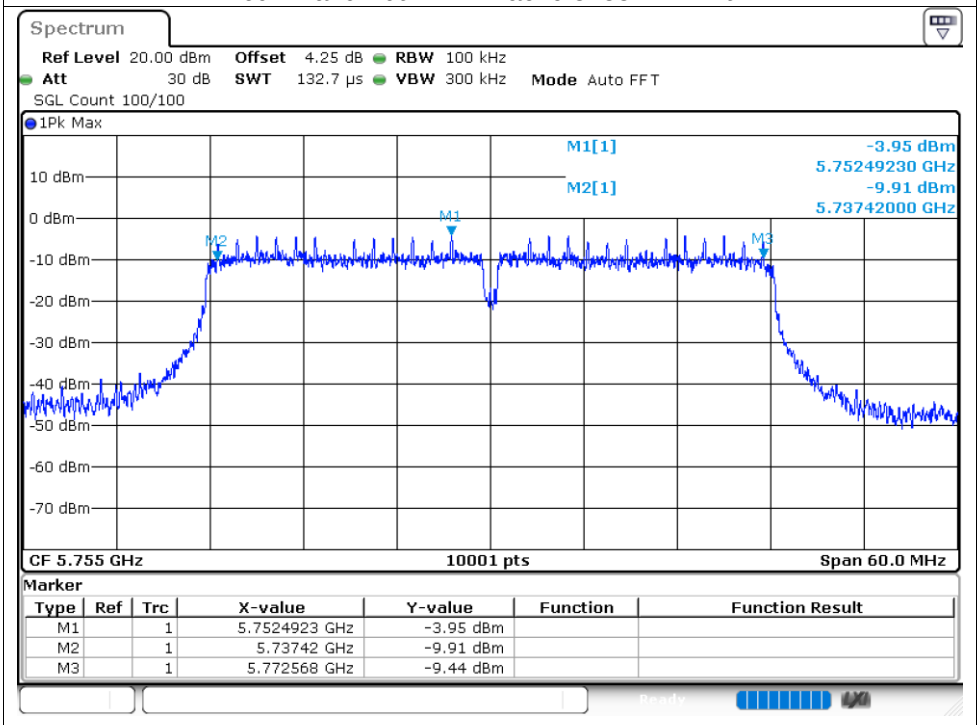
-6dB Bandwidth NVNT ac20 5785MHz Ant1



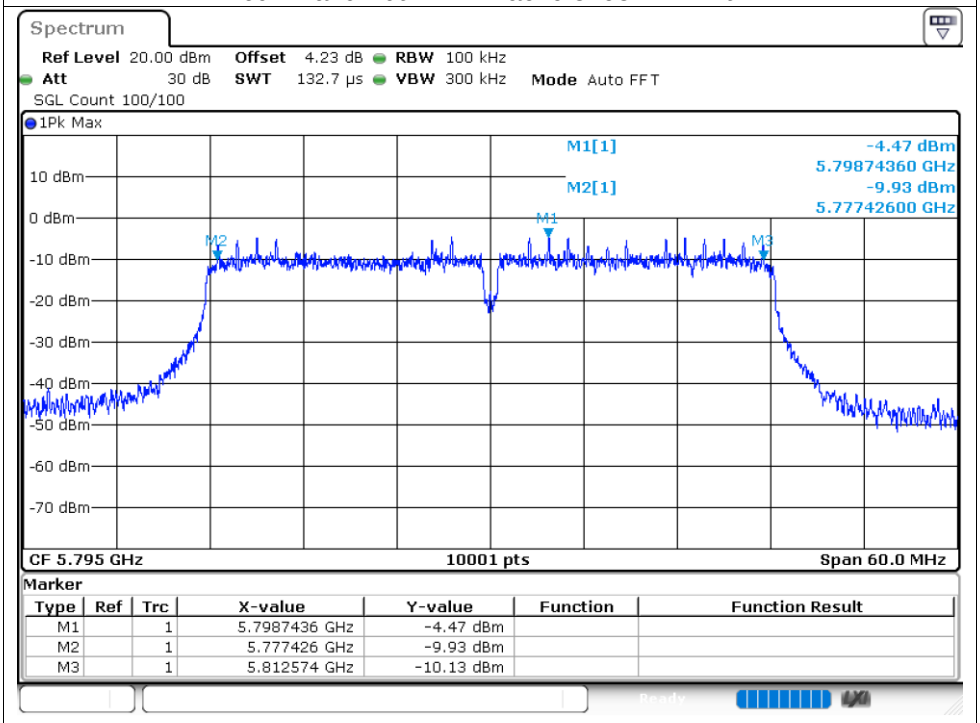
-6dB Bandwidth NVNT ac20 5825MHz Ant1



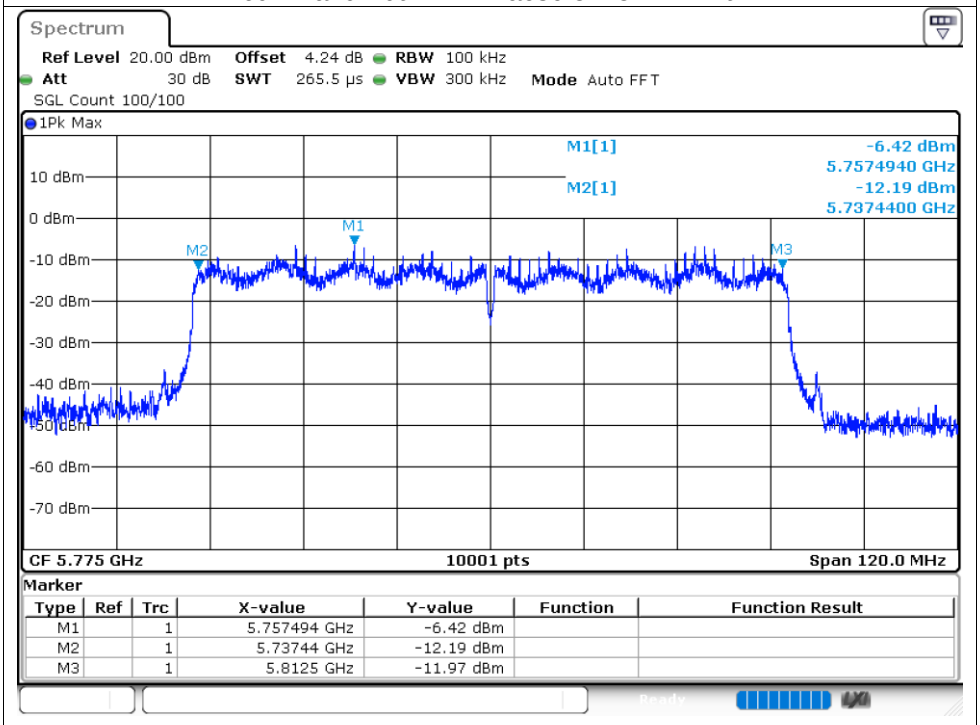
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



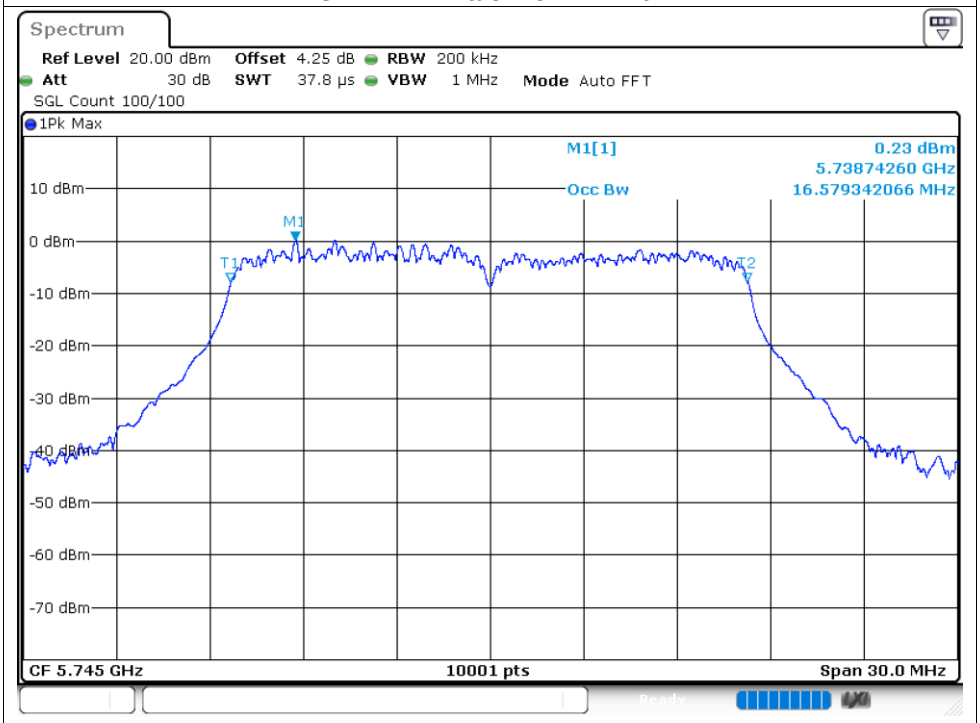
-6dB Bandwidth NVNT ac80 5775MHz Ant1



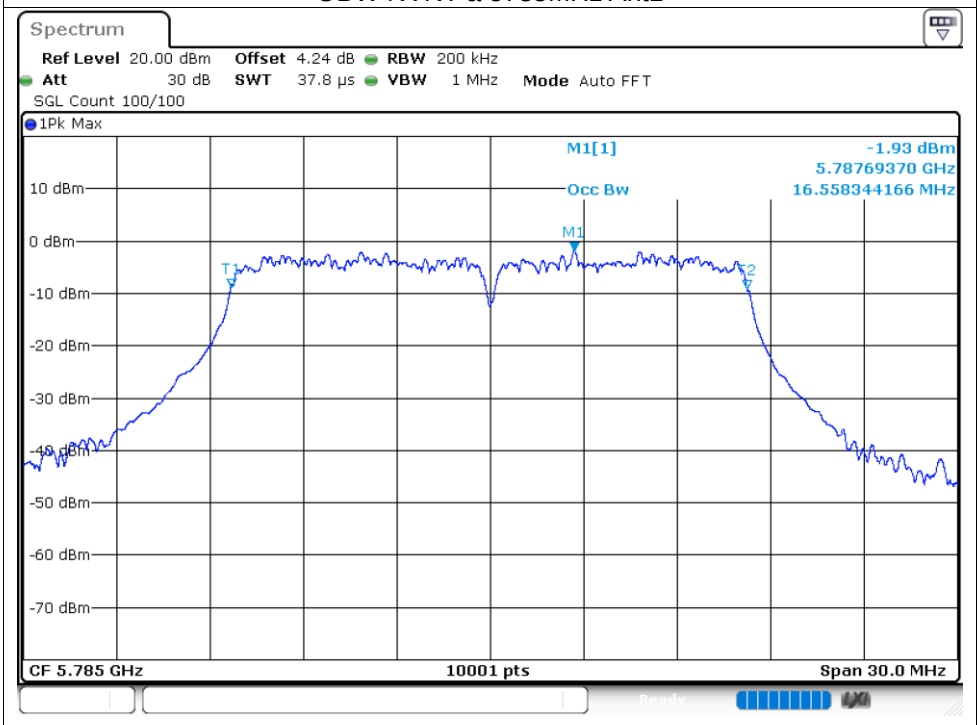
5.2.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.579
NVNT	a	5785	Ant1	16.558
NVNT	a	5825	Ant1	16.681
NVNT	n20	5745	Ant1	17.656
NVNT	n20	5785	Ant1	17.644
NVNT	n20	5825	Ant1	17.638
NVNT	n40	5755	Ant1	36.2
NVNT	n40	5795	Ant1	36.242
NVNT	ac20	5745	Ant1	17.611
NVNT	ac20	5785	Ant1	17.545
NVNT	ac20	5825	Ant1	17.671
NVNT	ac40	5755	Ant1	36.23
NVNT	ac40	5795	Ant1	36.188
NVNT	ac80	5775	Ant1	75.34

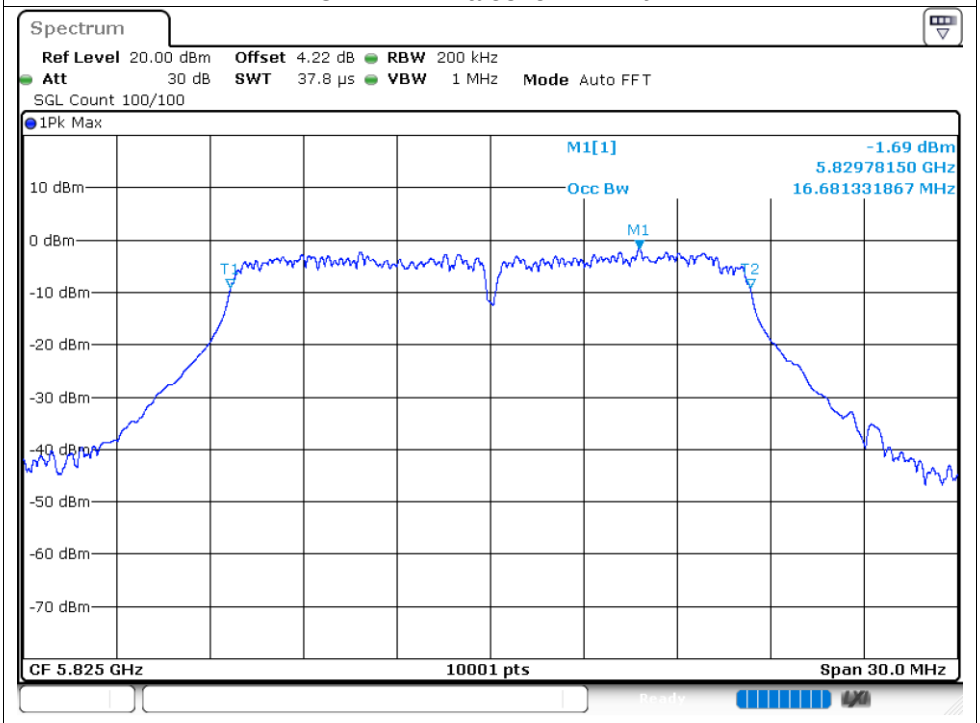
Test Graphs
OBW NVNT a 5745MHz Ant1



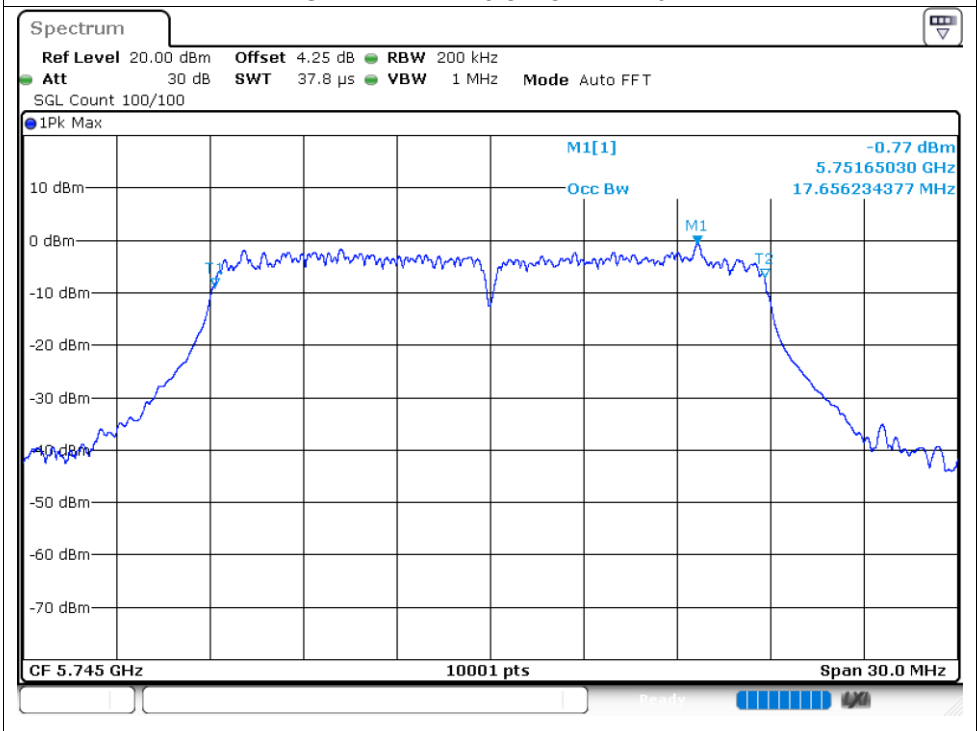
OBW NVNT a 5785MHz Ant1



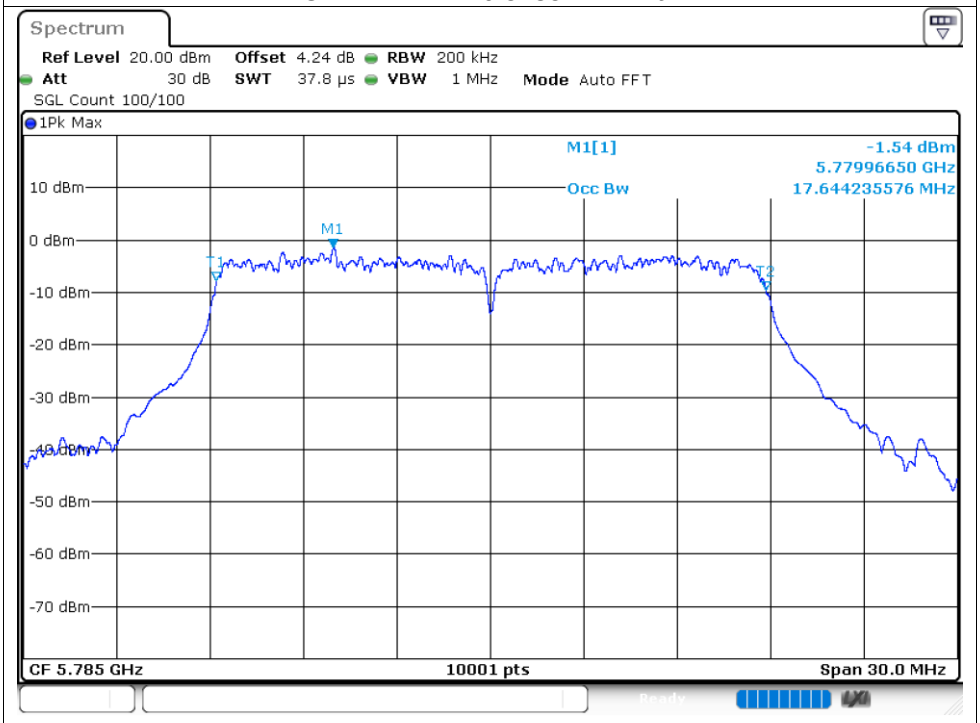
OBW NVNT a 5825MHz Ant1



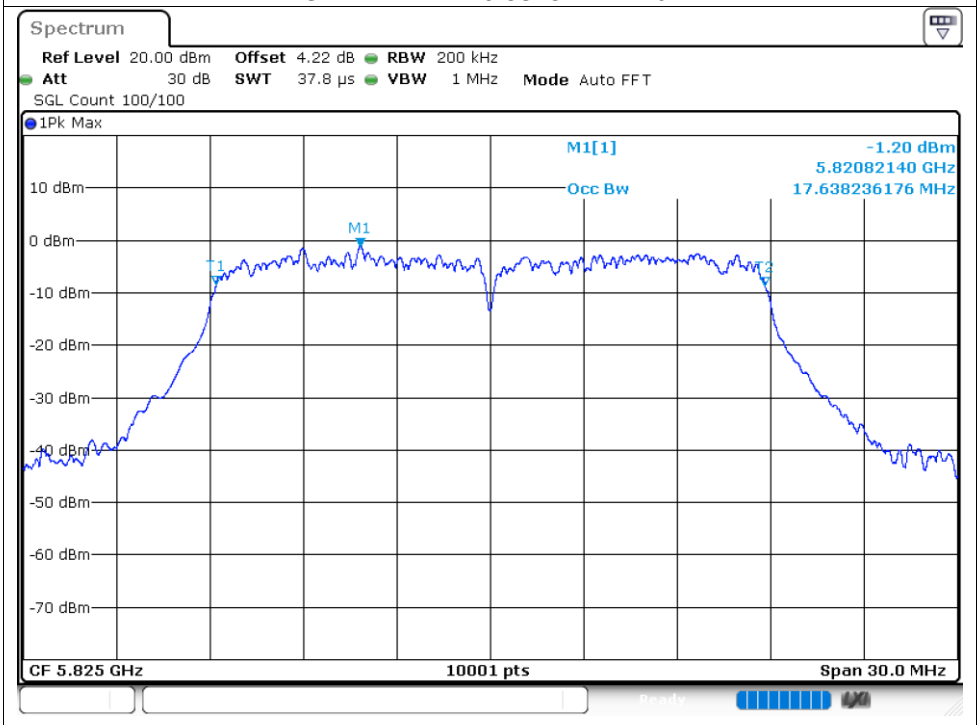
OBW NVNT n20 5745MHz Ant1



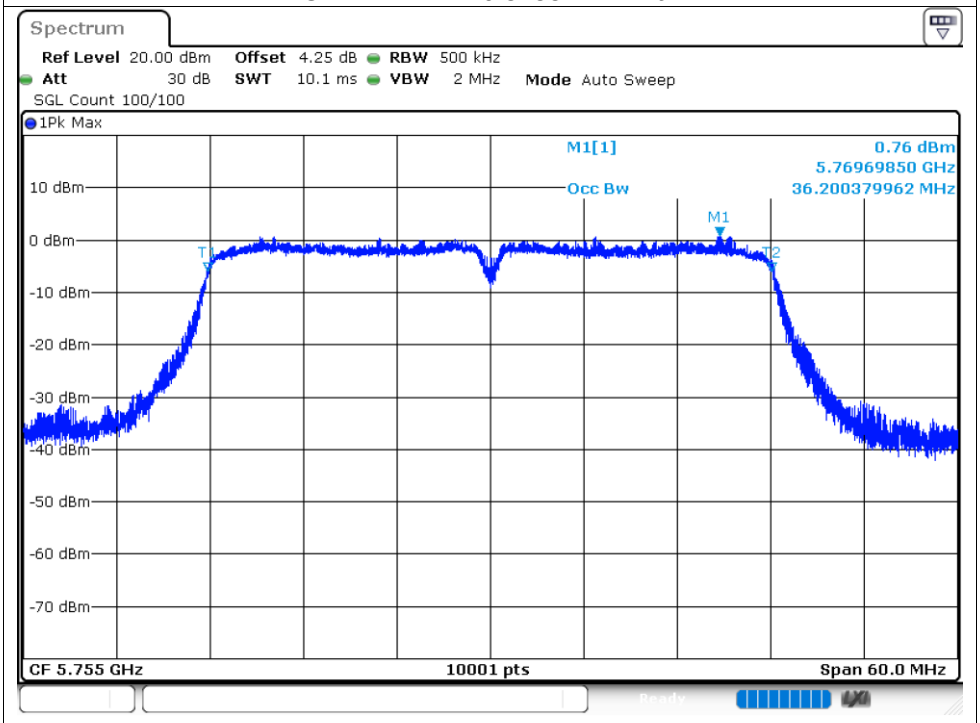
OBW NVNT n20 5785MHz Ant1



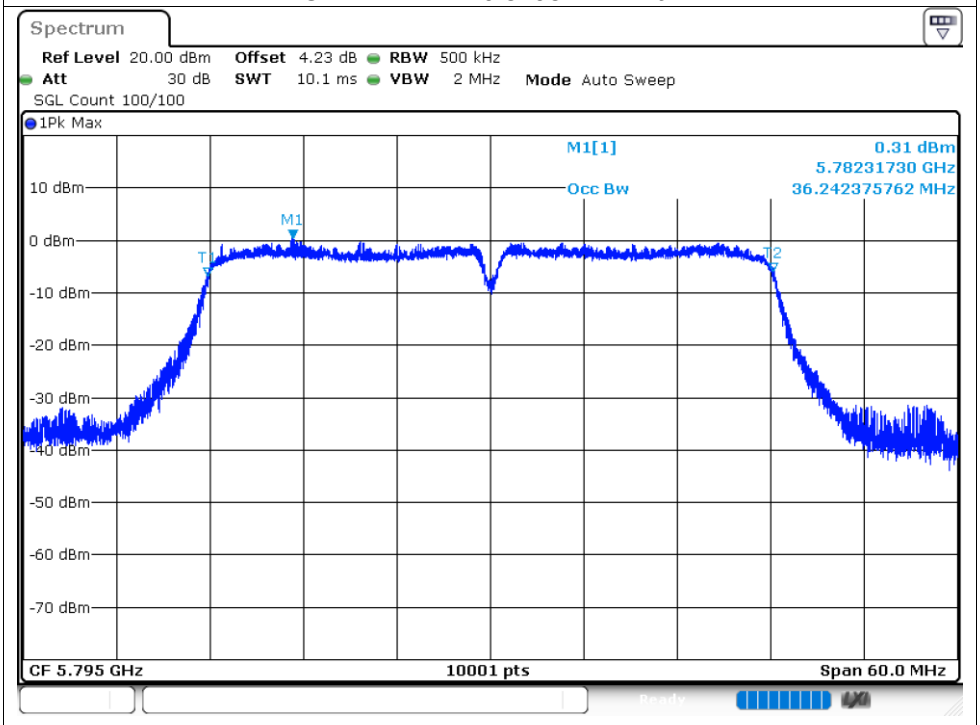
OBW NVNT n20 5825MHz Ant1



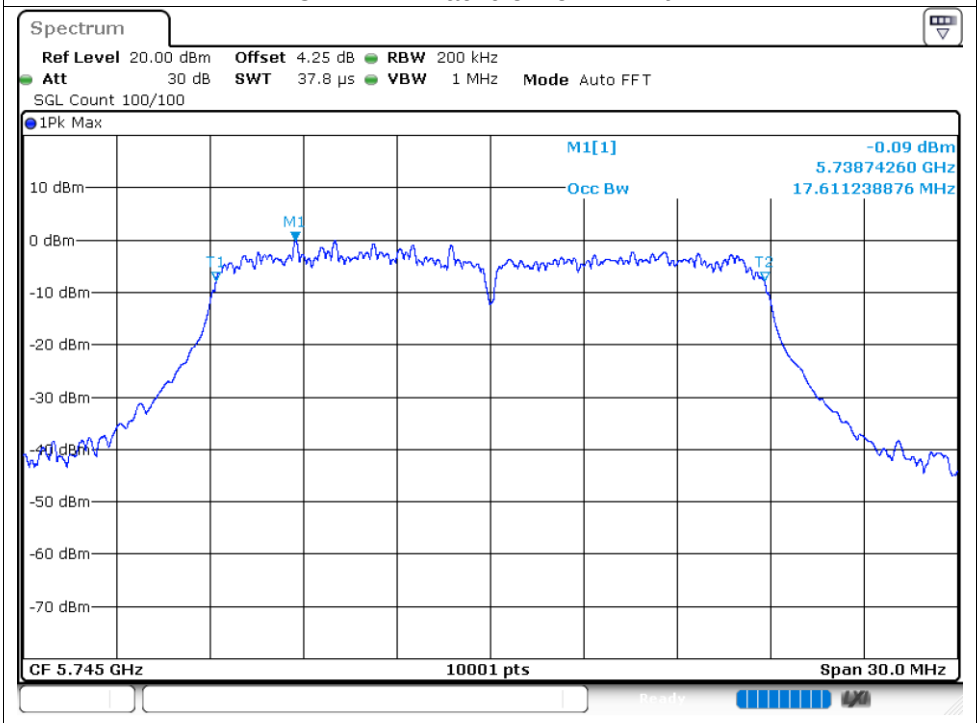
OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1