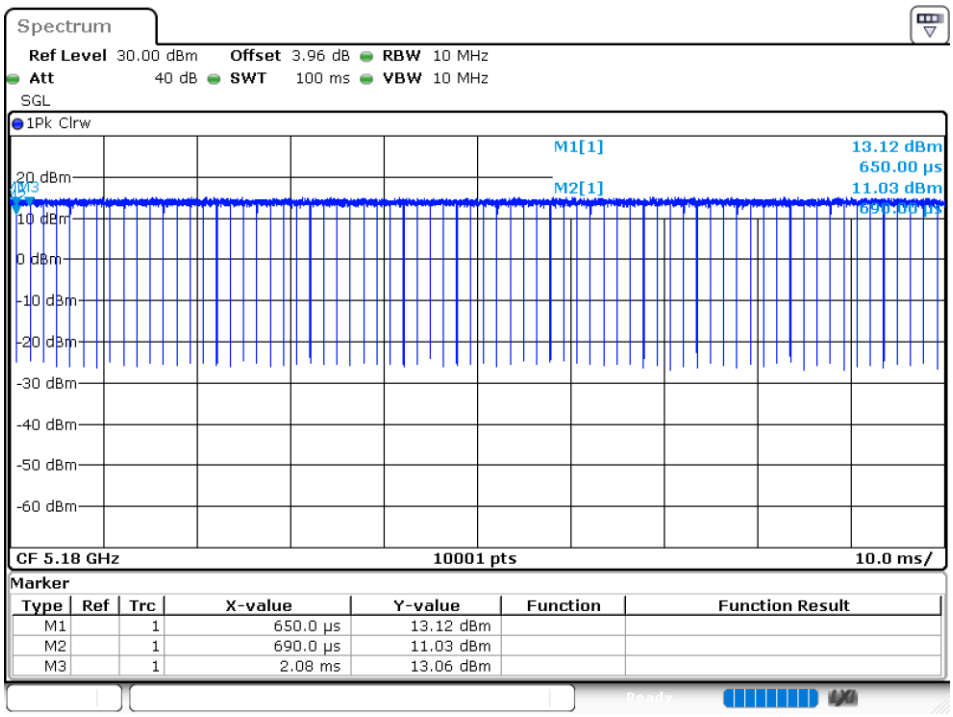
WIFI 5.2G:

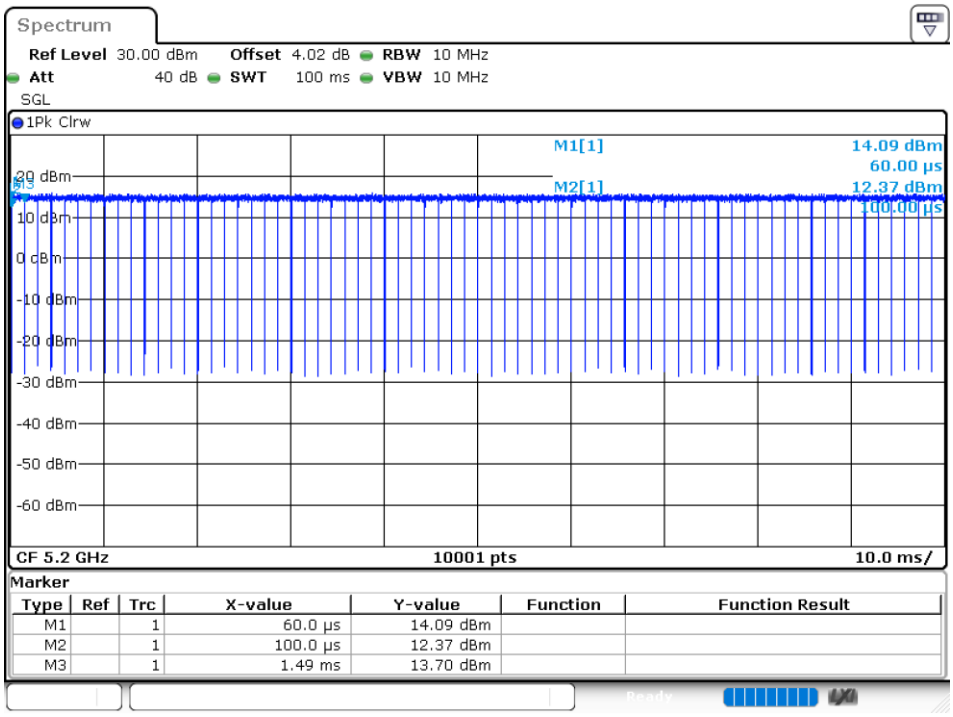
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.2	0.08	0.72
NVNT	a	5200	Ant1	98.2	0.08	0.72
NVNT	a	5240	Ant1	98.15	0.08	0.71
NVNT	n20	5180	Ant1	98.06	0.09	0.77
NVNT	n20	5200	Ant1	98.07	0.08	0.77
NVNT	n20	5240	Ant1	98.06	0.09	0.77
NVNT	n40	5190	Ant1	96.35	0.16	1.54
NVNT	n40	5230	Ant1	96.33	0.16	1.54
NVNT	ac20	5180	Ant1	98.04	0.09	0.76
NVNT	ac20	5200	Ant1	98.09	0.08	0.76
NVNT	ac20	5240	Ant1	98.08	0.08	0.76
NVNT	ac40	5190	Ant1	96.34	0.16	1.54
NVNT	ac40	5230	Ant1	96.35	0.16	1.54
NVNT	ac80	5210	Ant1	93.12	0.31	3.12

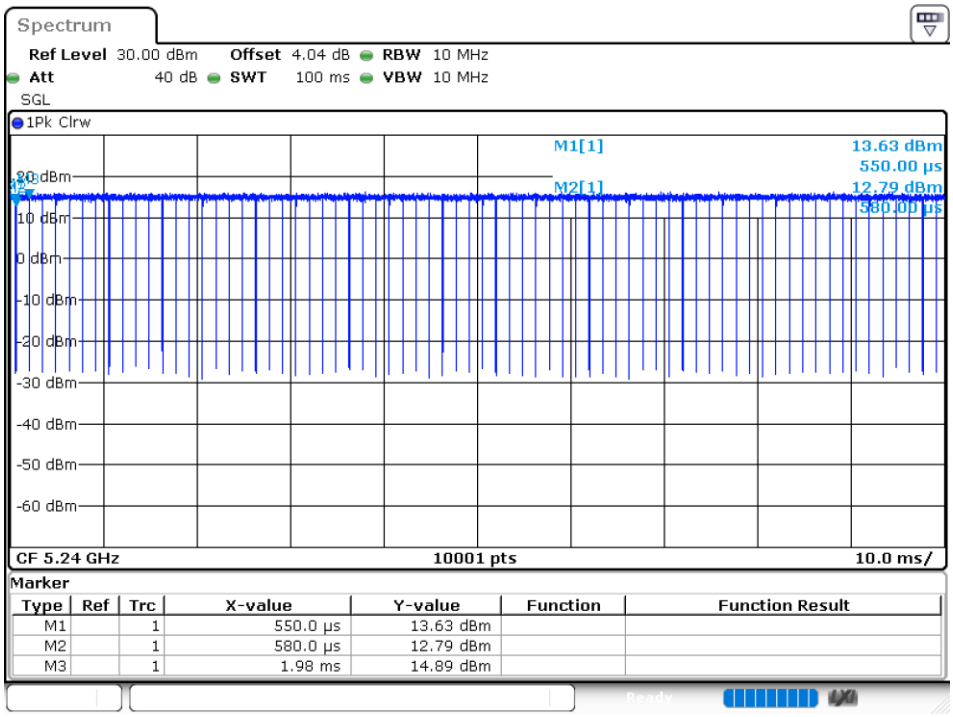
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



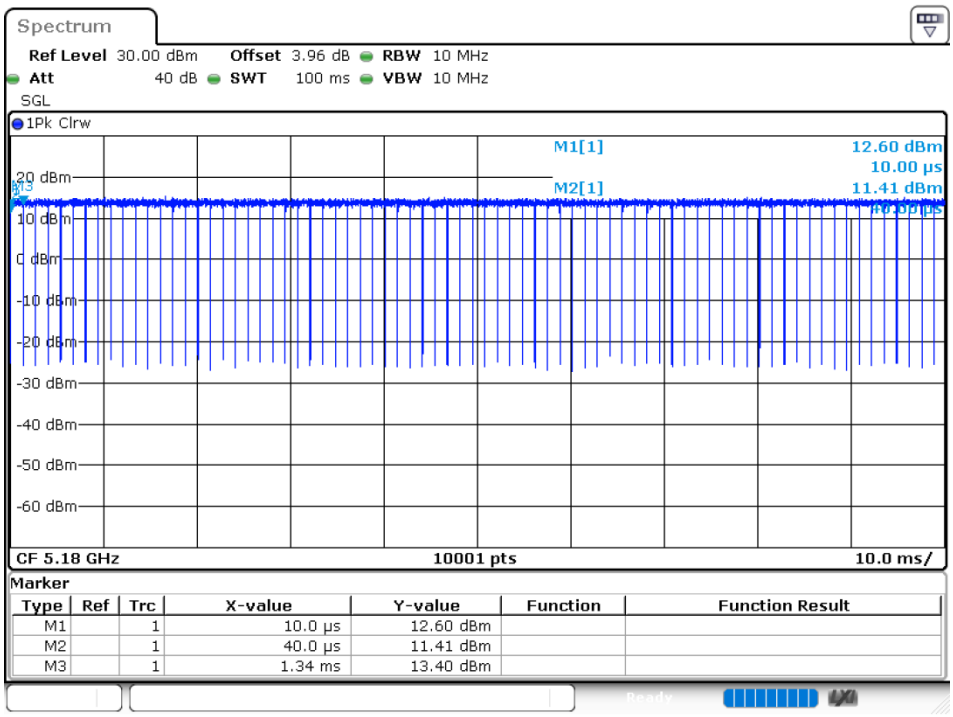
Duty Cycle NVNT a 5200MHz Ant1



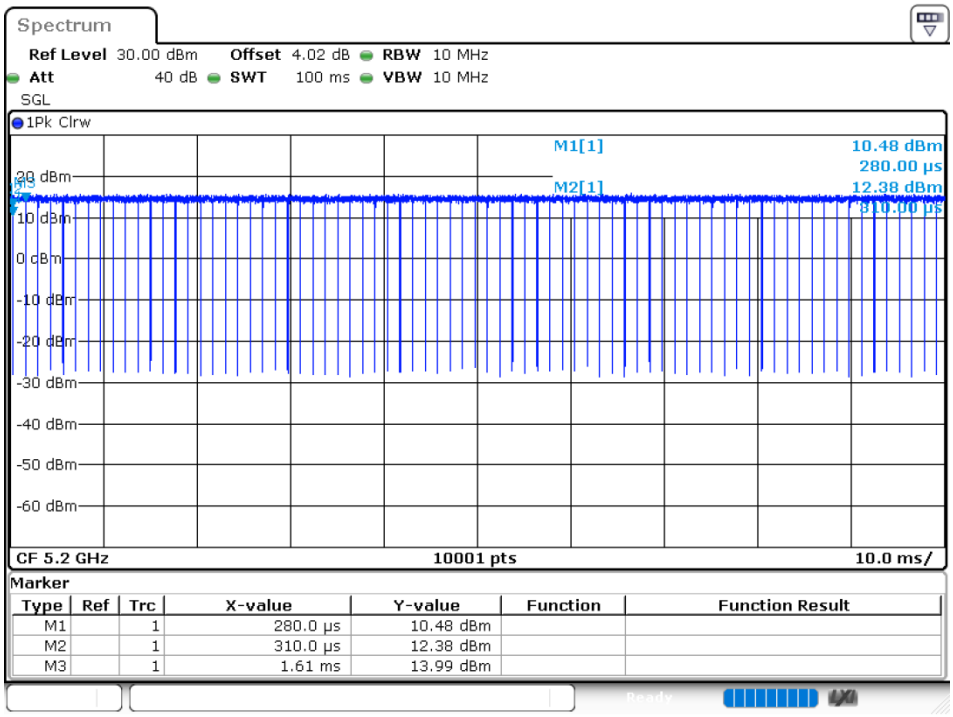
Duty Cycle NVNT a 5240MHz Ant1



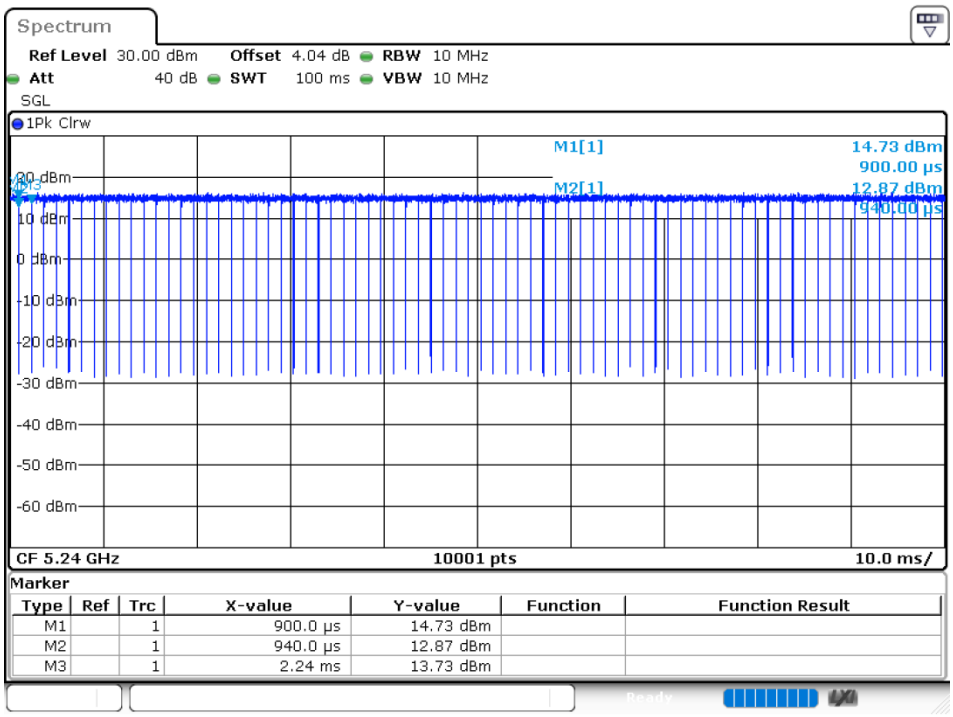
Duty Cycle NVNT n20 5180MHz Ant1



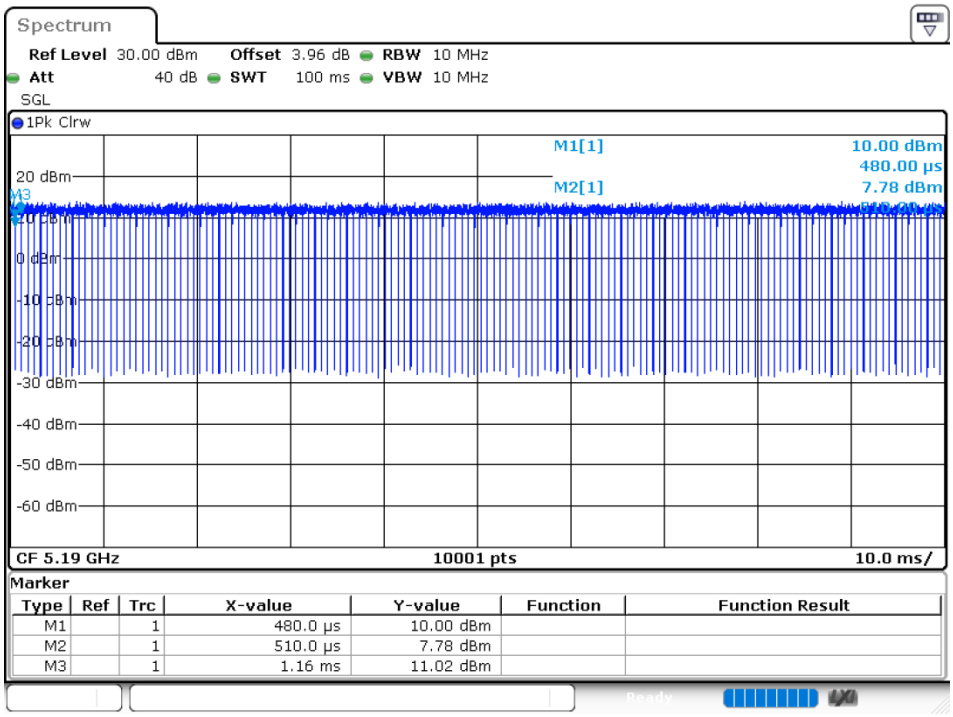
Duty Cycle NVNT n20 5200MHz Ant1



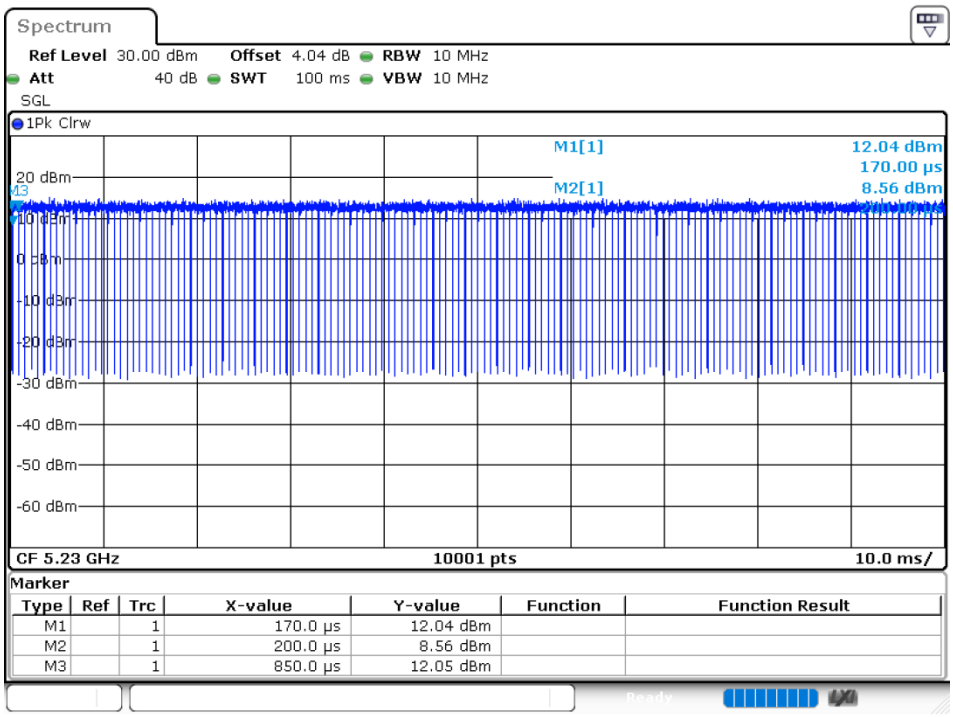
Duty Cycle NVNT n20 5240MHz Ant1



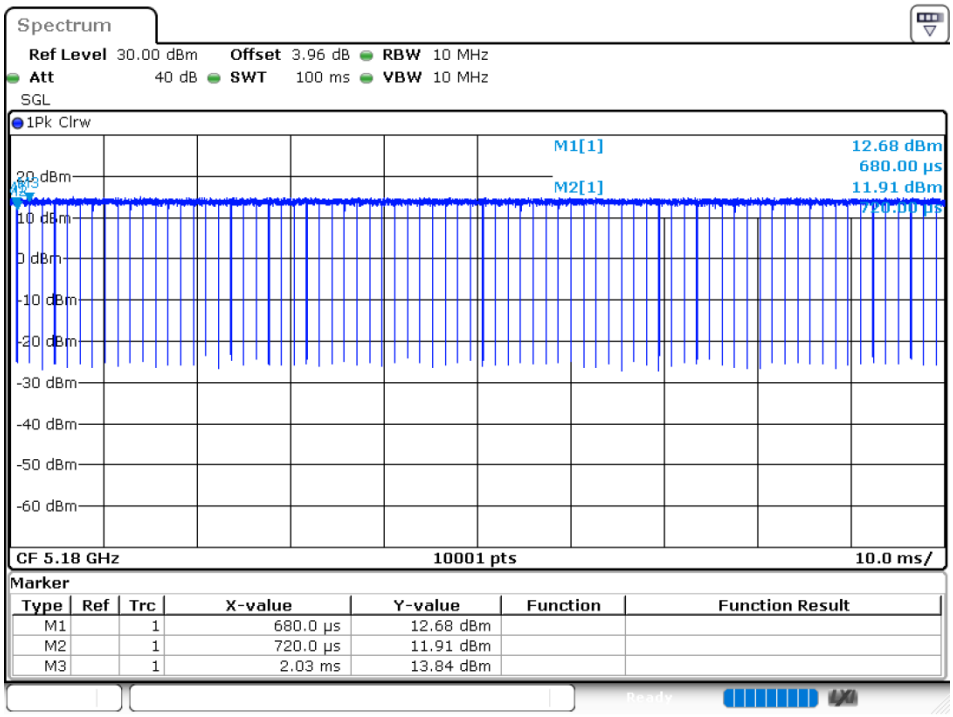
Duty Cycle NVNT n40 5190MHz Ant1



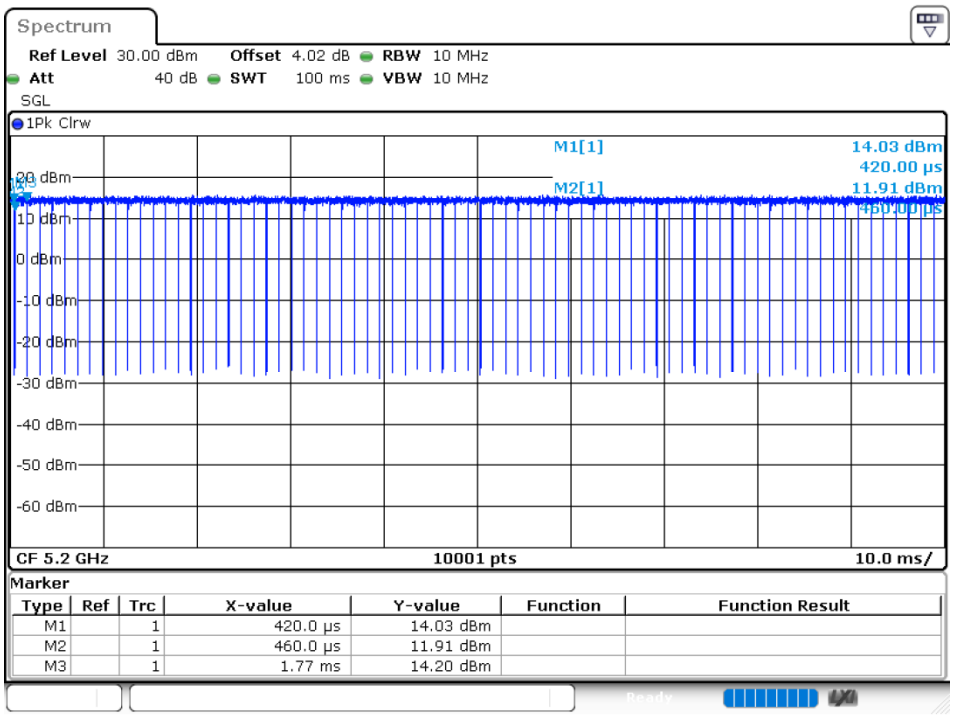
Duty Cycle NVNT n40 5230MHz Ant1



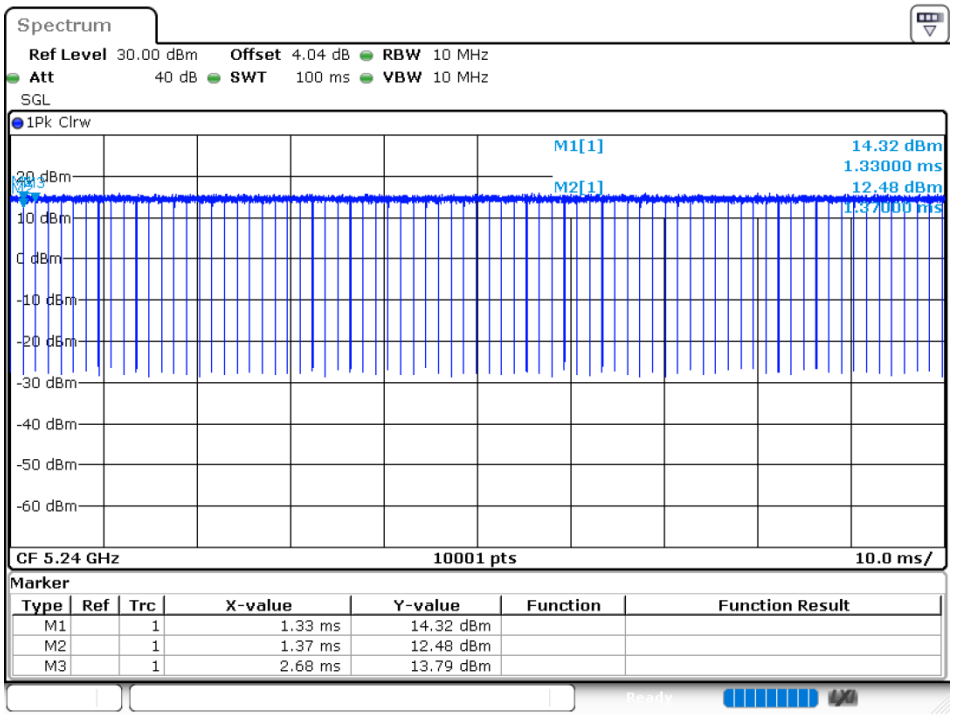
Duty Cycle NVNT ac20 5180MHz Ant1



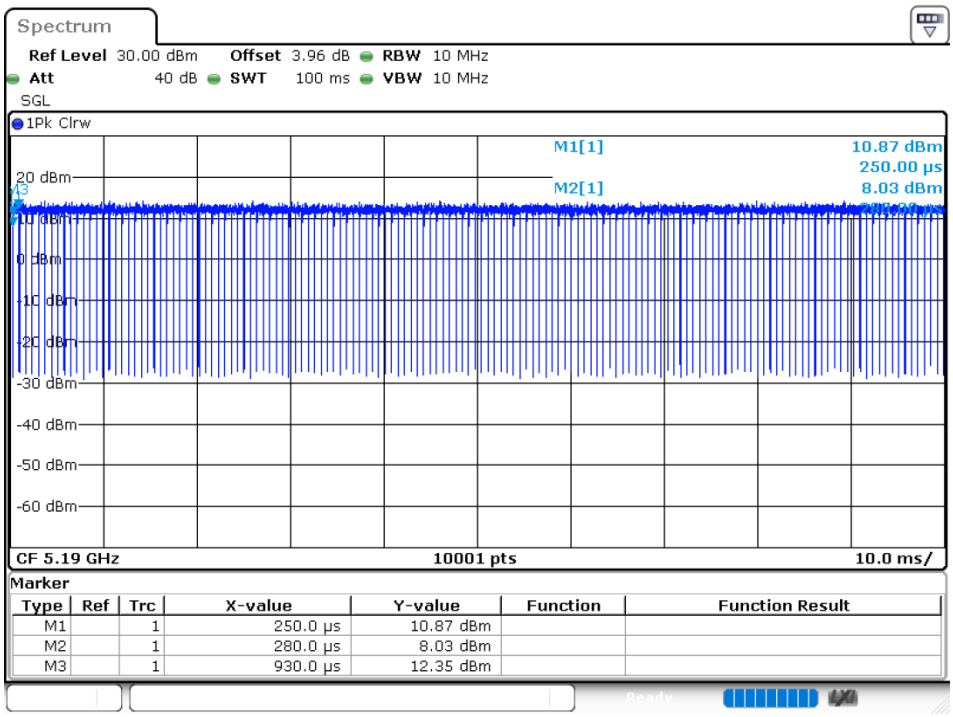
Duty Cycle NVNT ac20 5200MHz Ant1



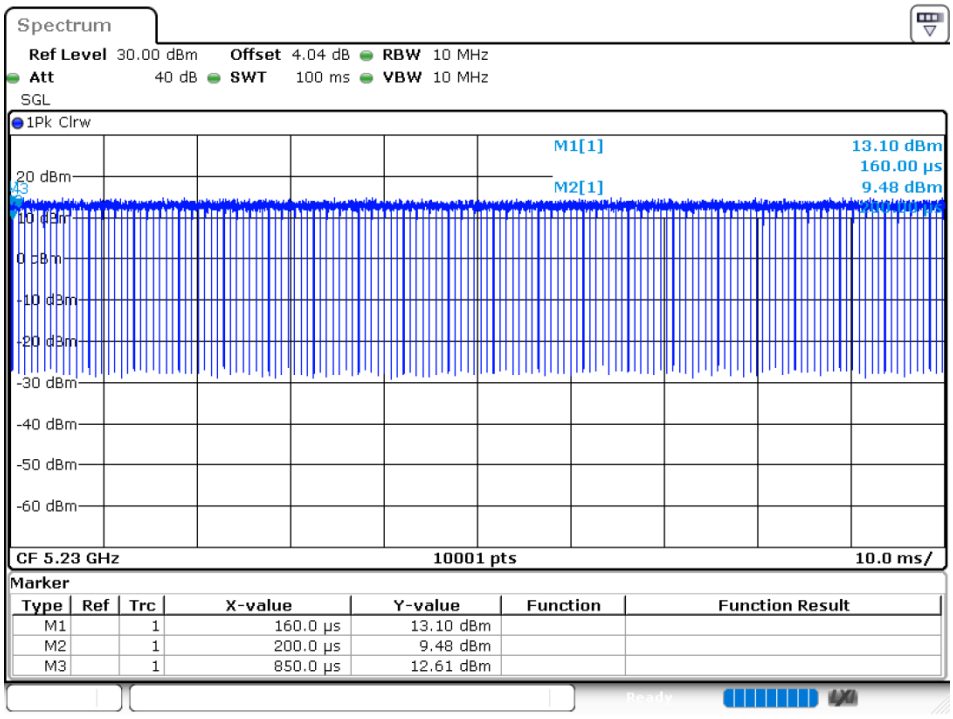
Duty Cycle NVNT ac20 5240MHz Ant1



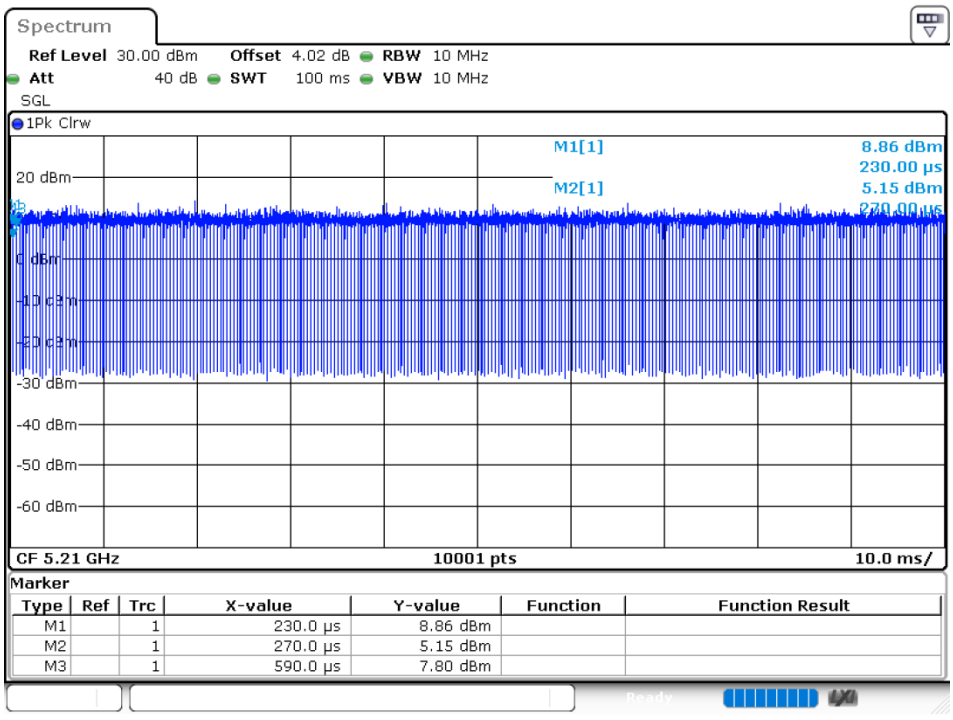
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



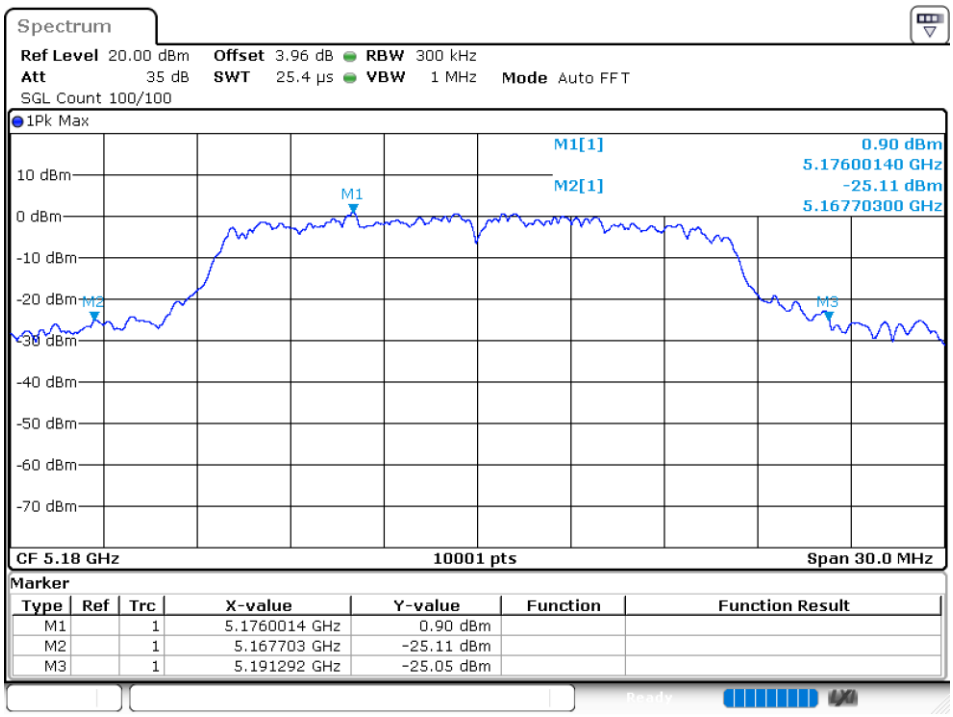
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.32	24	Pass
NVNT	a	5200	Ant1	11.27	24	Pass
NVNT	a	5240	Ant1	10.94	24	Pass
NVNT	n20	5180	Ant1	11.59	24	Pass
NVNT	n20	5200	Ant1	11.25	24	Pass
NVNT	n20	5240	Ant1	10.7	24	Pass
NVNT	n40	5190	Ant1	10.89	24	Pass
NVNT	n40	5230	Ant1	10.49	24	Pass
NVNT	ac20	5180	Ant1	11.71	24	Pass
NVNT	ac20	5200	Ant1	10.95	24	Pass
NVNT	ac20	5240	Ant1	10.5	24	Pass
NVNT	ac40	5190	Ant1	11.49	24	Pass
NVNT	ac40	5230	Ant1	10.74	24	Pass
NVNT	ac80	5210	Ant1	10.98	24	Pass

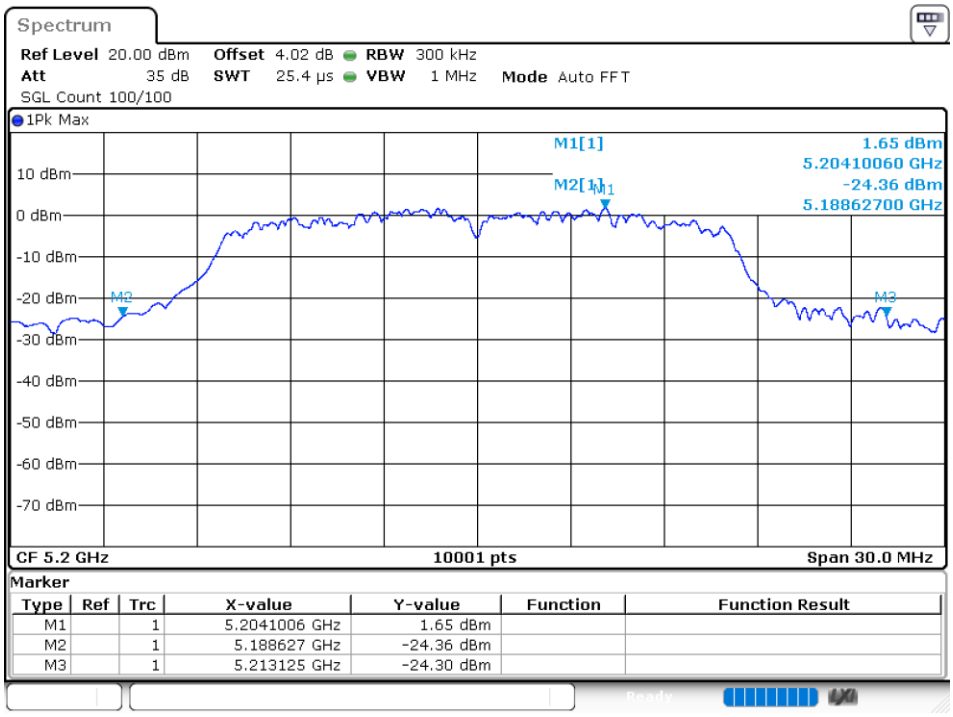
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.589	Pass
NVNT	a	5200	Ant1	24.498	Pass
NVNT	a	5240	Ant1	26.154	Pass
NVNT	n20	5180	Ant1	25.161	Pass
NVNT	n20	5200	Ant1	26.724	Pass
NVNT	n20	5240	Ant1	28.773	Pass
NVNT	n40	5190	Ant1	70.52	Pass
NVNT	n40	5230	Ant1	71.272	Pass
NVNT	ac20	5180	Ant1	26.634	Pass
NVNT	ac20	5200	Ant1	24.168	Pass
NVNT	ac20	5240	Ant1	28.593	Pass
NVNT	ac40	5190	Ant1	70.512	Pass
NVNT	ac40	5230	Ant1	68.112	Pass
NVNT	ac80	5210	Ant1	119.1	Pass

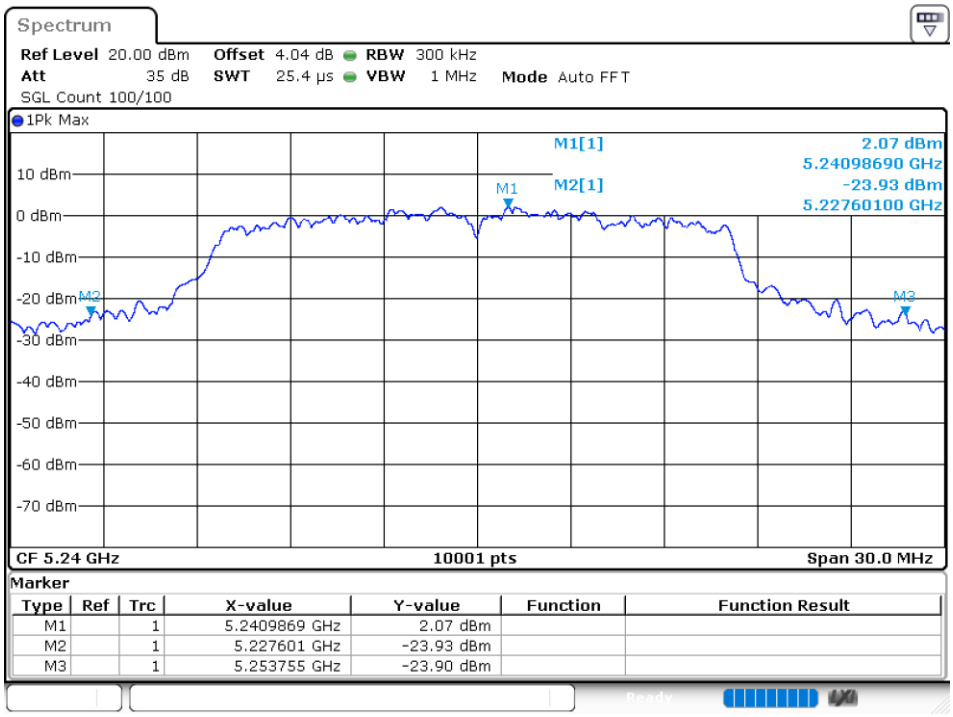
Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant1



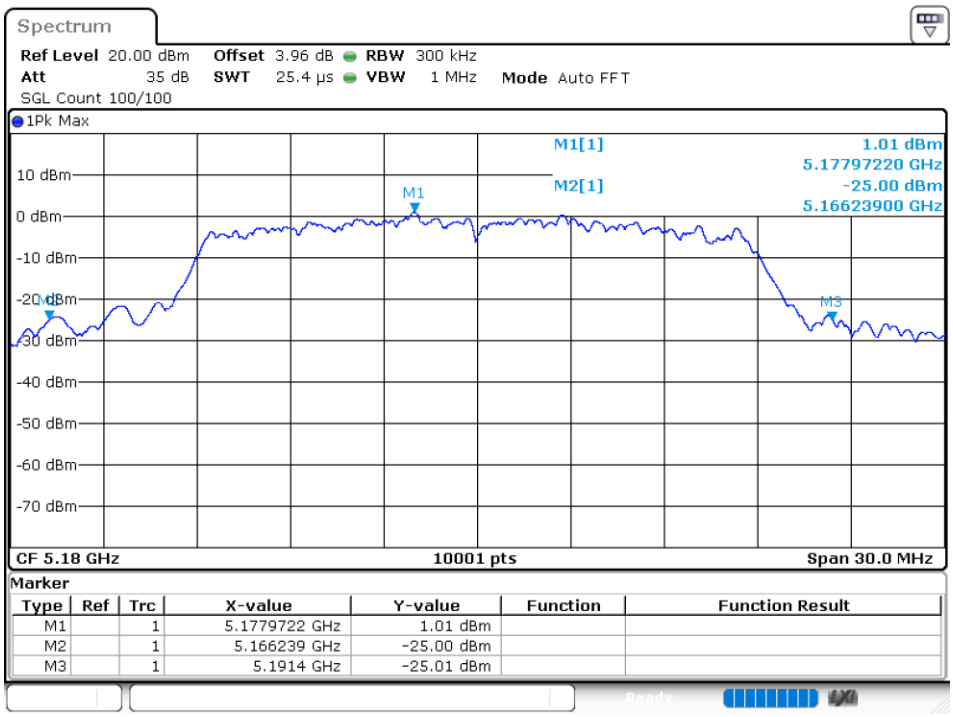
-26dB Bandwidth NVNT a 5200MHz Ant1



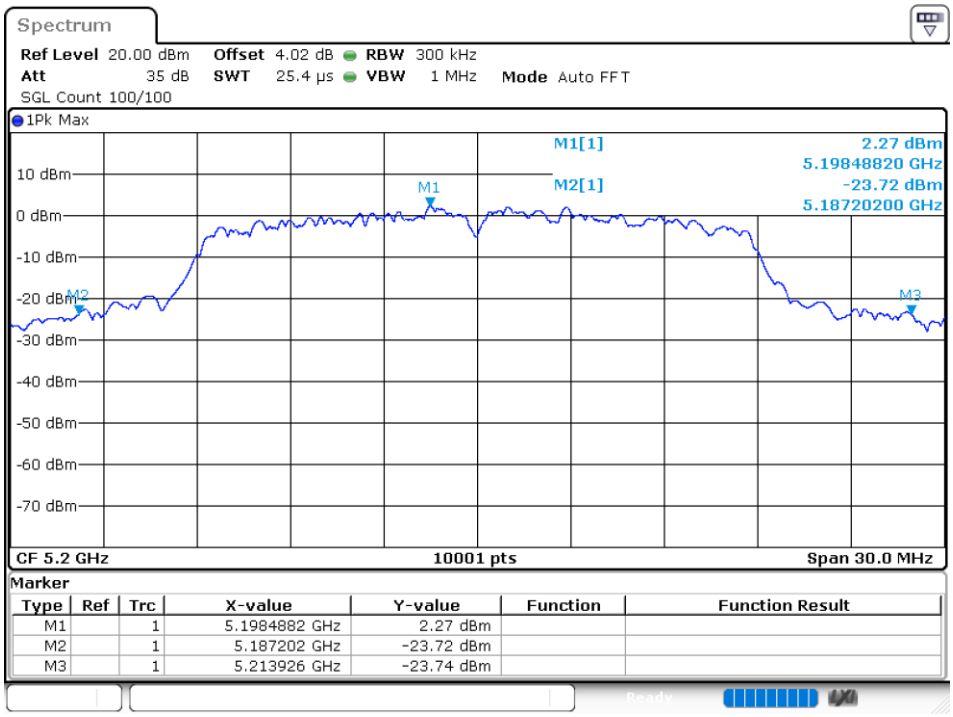
-26dB Bandwidth NVNT a 5240MHz Ant1



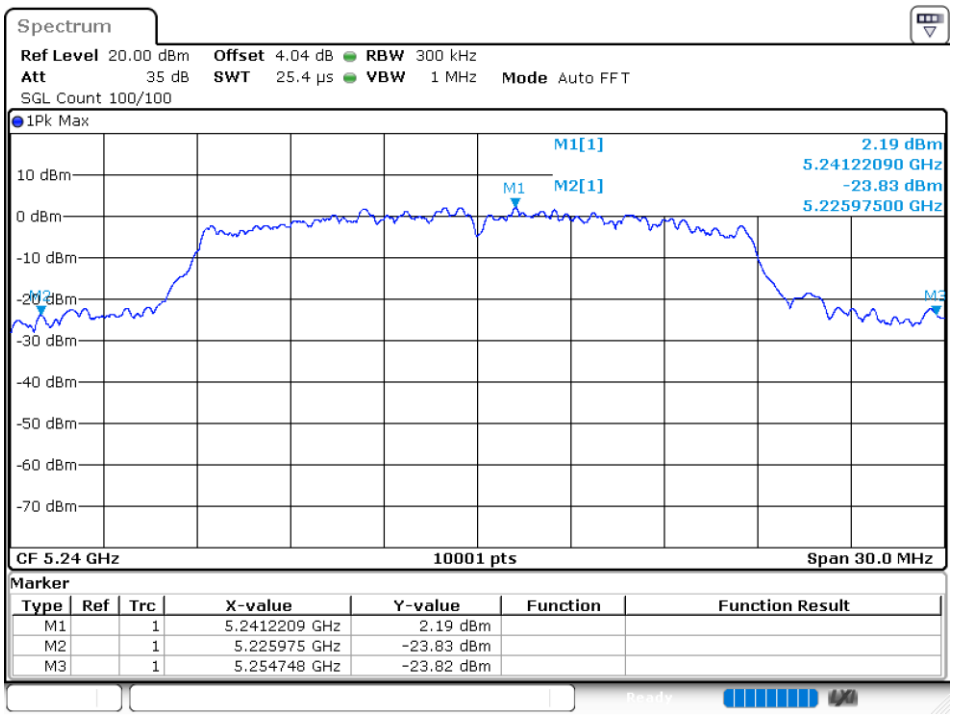
-26dB Bandwidth NVNT n20 5180MHz Ant1



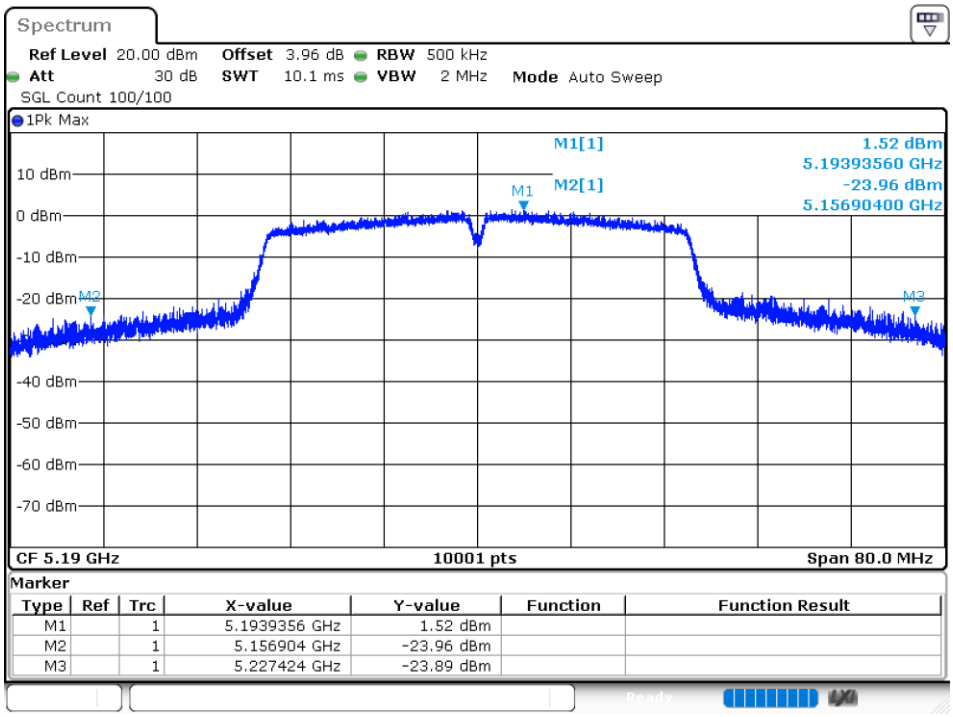
-26dB Bandwidth NVNT n20 5200MHz Ant1



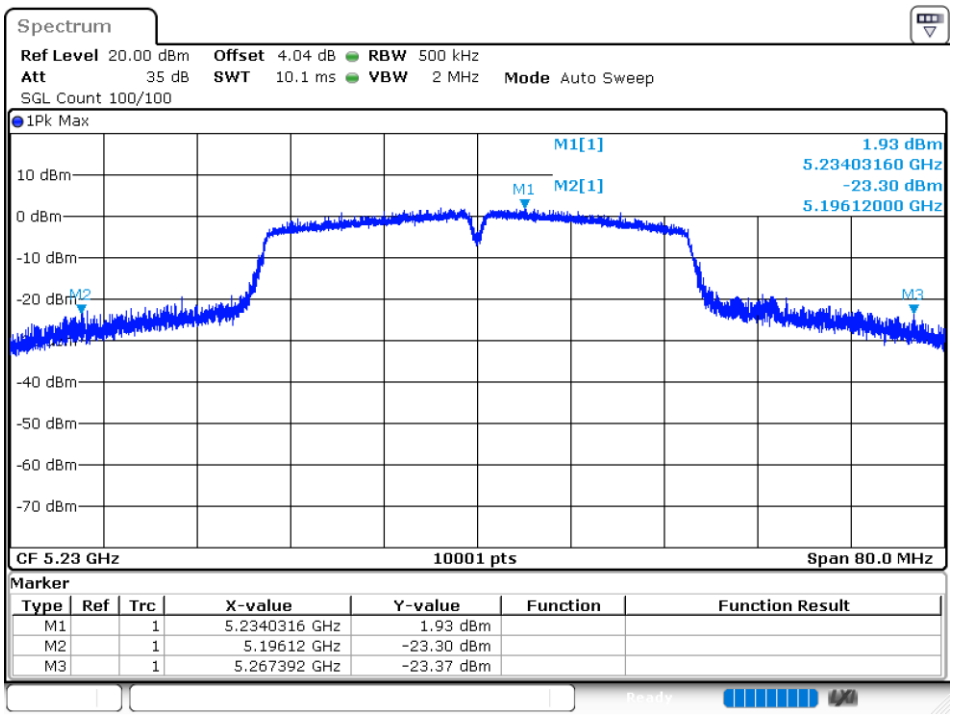
-26dB Bandwidth NVNT n20 5240MHz Ant1



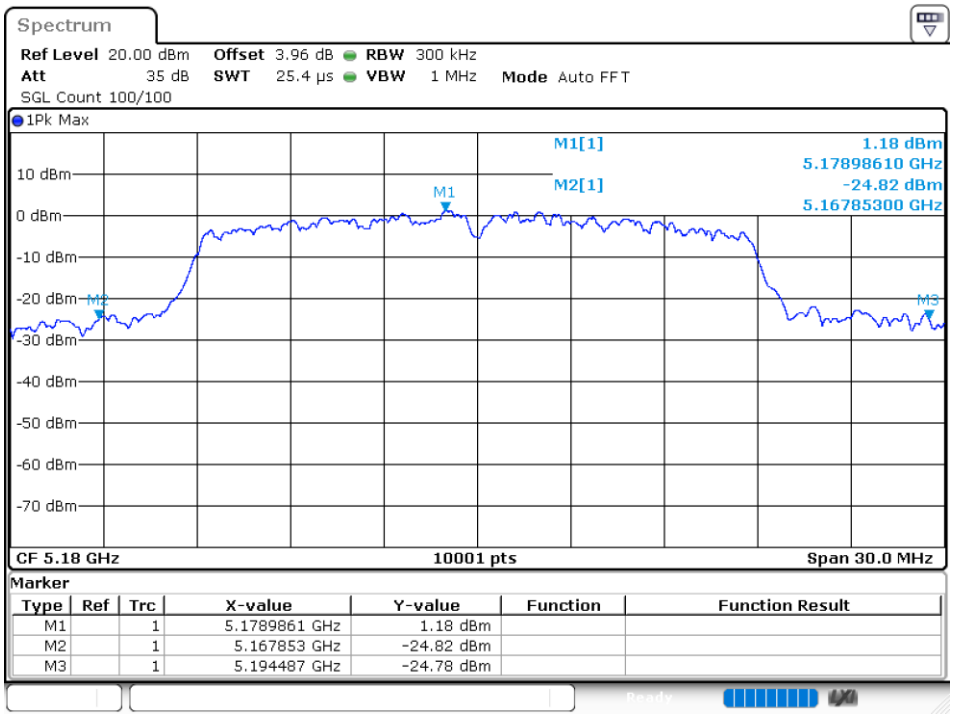
-26dB Bandwidth NVNT n40 5190MHz Ant1



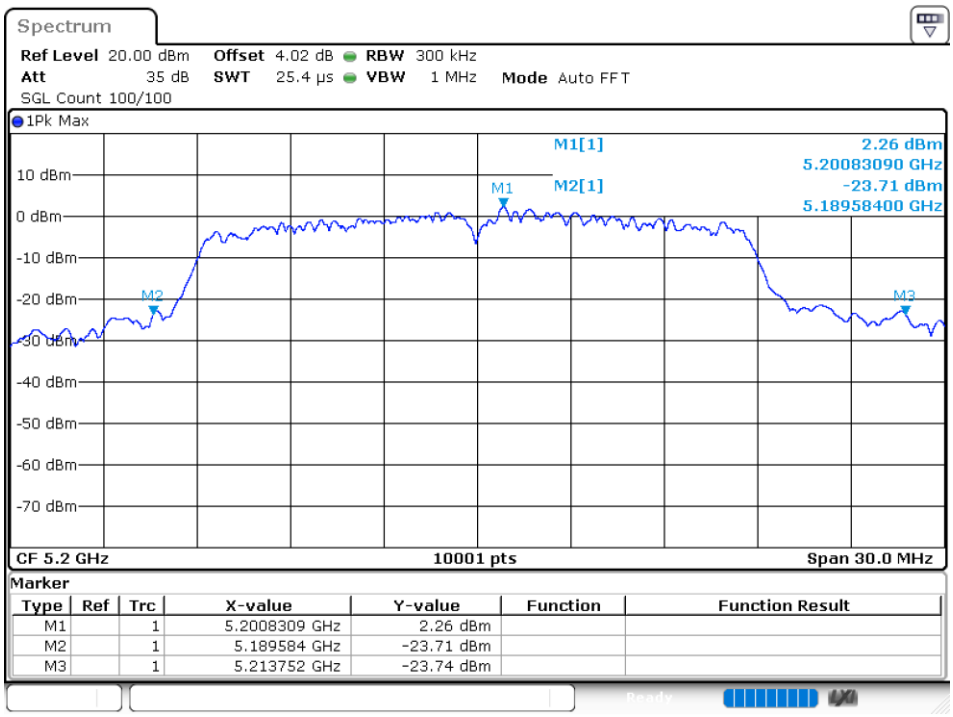
-26dB Bandwidth NVNT n40 5230MHz Ant1



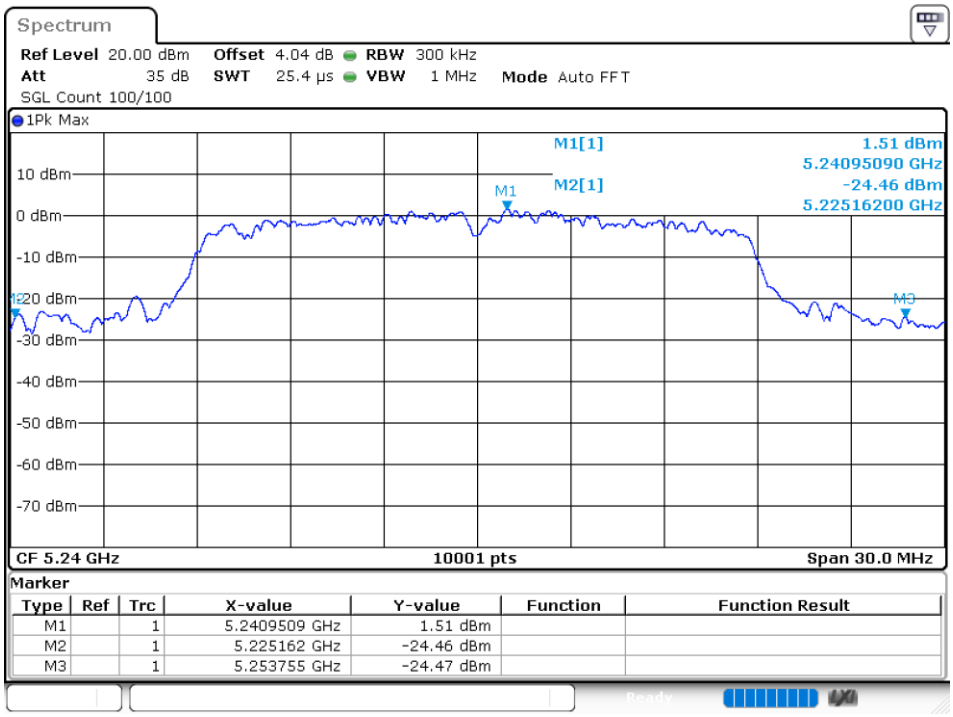
-26dB Bandwidth NVNT ac20 5180MHz Ant1



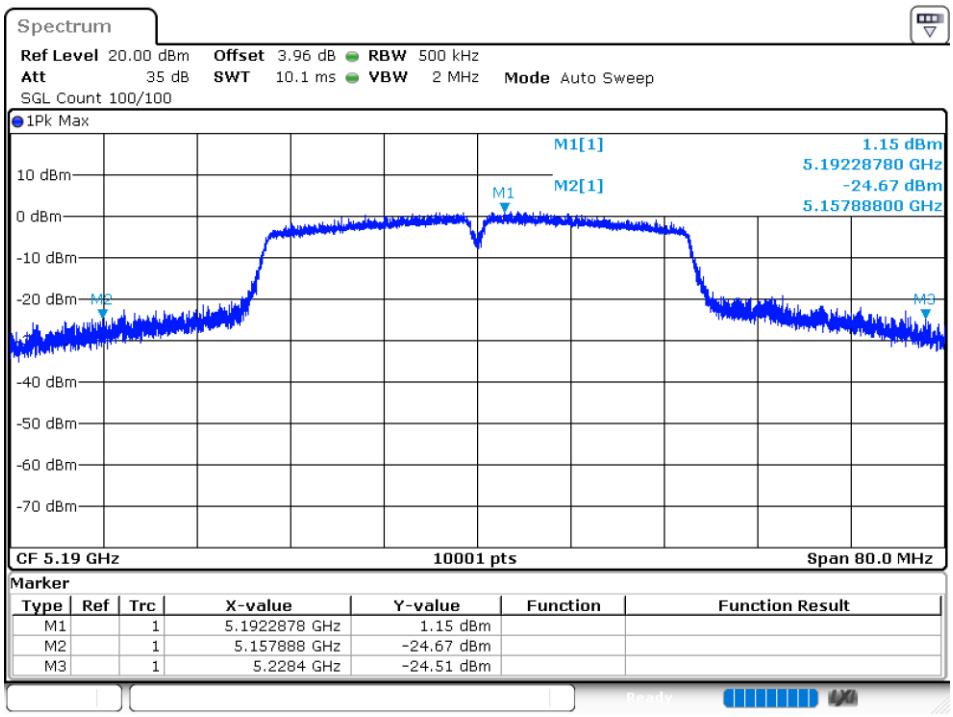
-26dB Bandwidth NVNT ac20 5200MHz Ant1



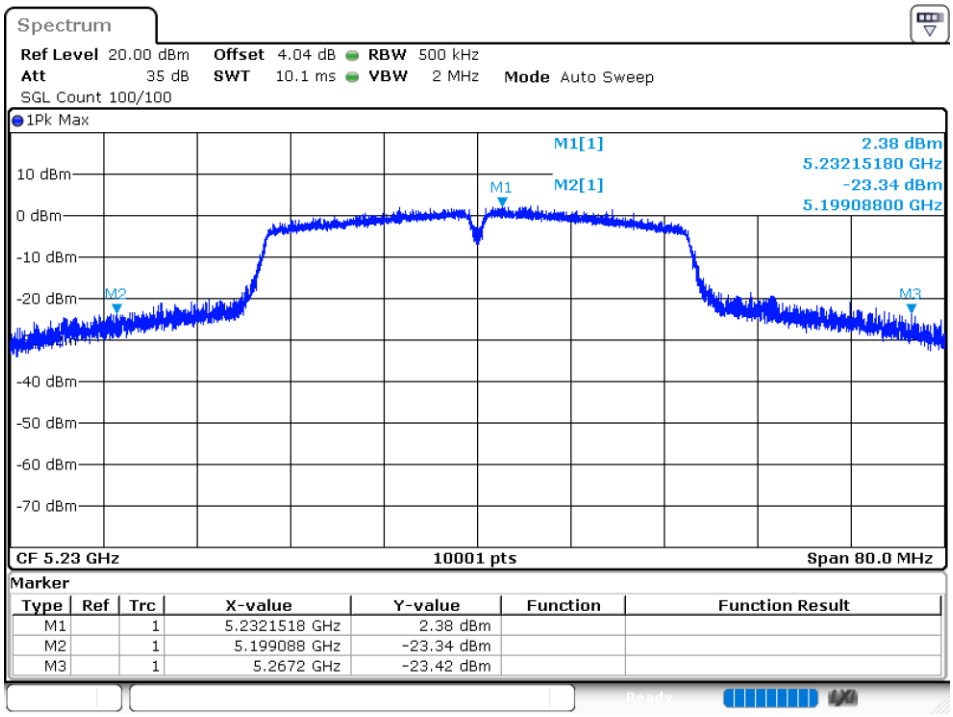
-26dB Bandwidth NVNT ac20 5240MHz Ant1



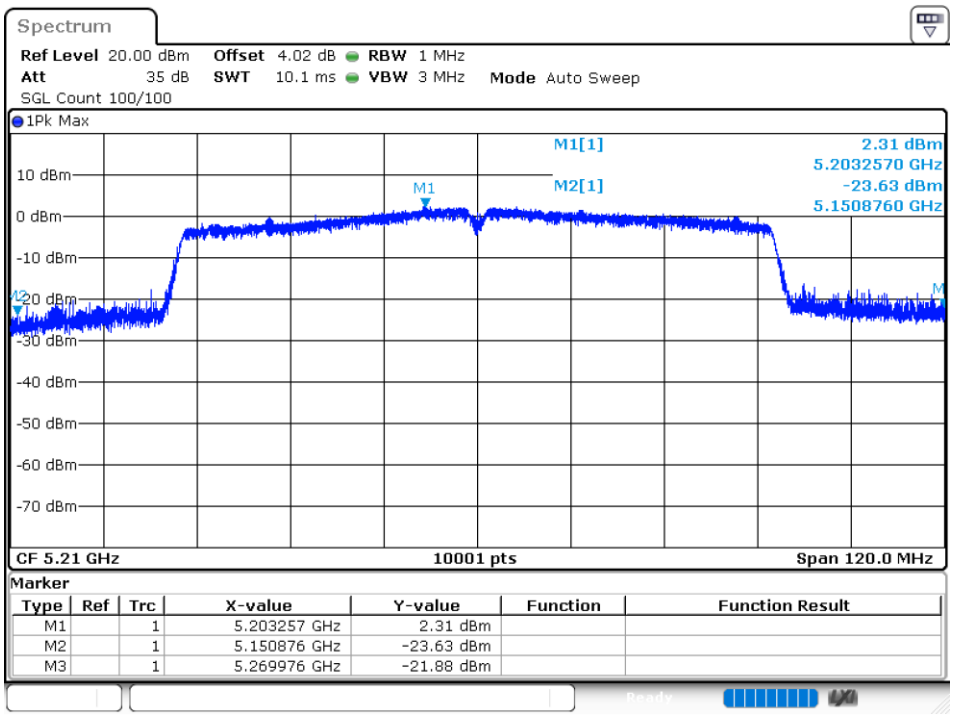
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



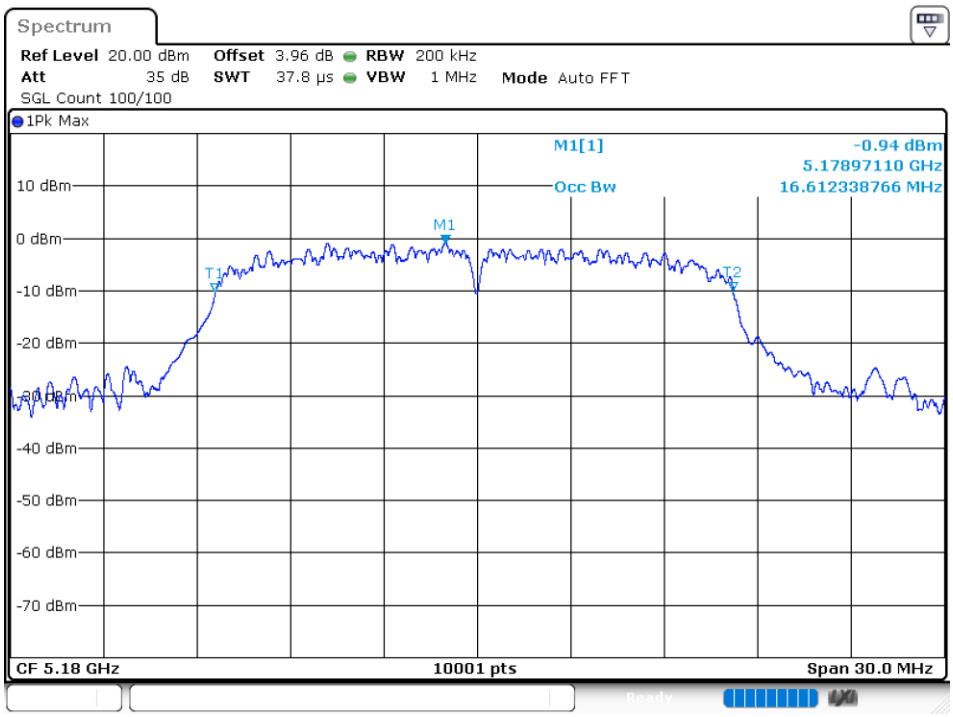
-26dB Bandwidth NVNT ac80 5210MHz Ant1



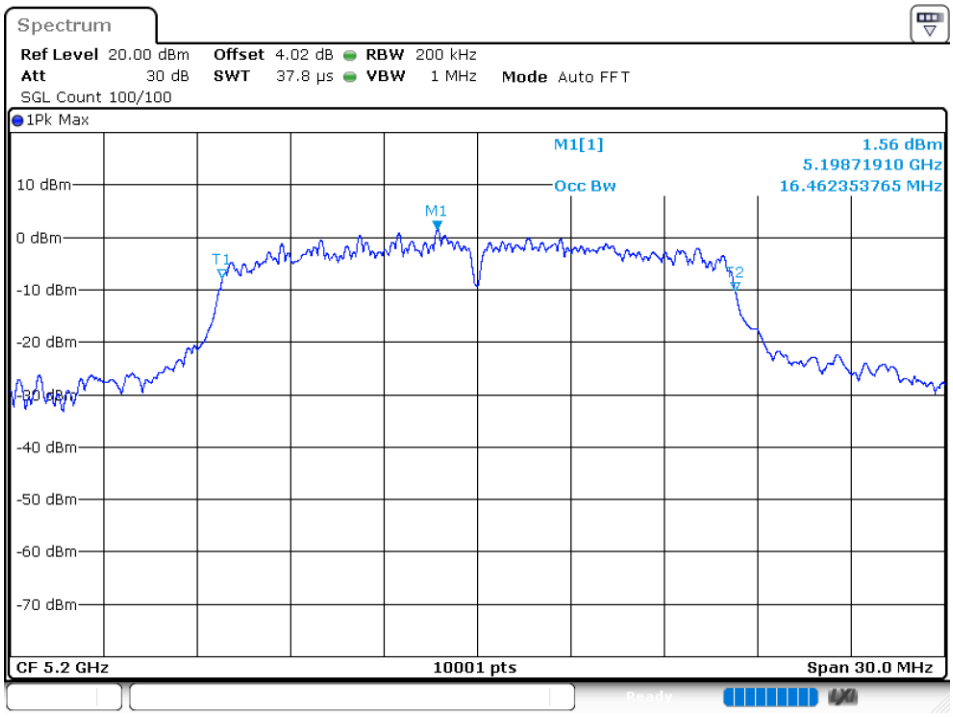
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.612
NVNT	a	5200	Ant1	16.462
NVNT	a	5240	Ant1	16.747
NVNT	n20	5180	Ant1	17.695
NVNT	n20	5200	Ant1	17.719
NVNT	n20	5240	Ant1	17.731
NVNT	n40	5190	Ant1	36.398
NVNT	n40	5230	Ant1	36.32
NVNT	ac20	5180	Ant1	17.629
NVNT	ac20	5200	Ant1	17.59
NVNT	ac20	5240	Ant1	17.605
NVNT	ac40	5190	Ant1	36.476
NVNT	ac40	5230	Ant1	36.338
NVNT	ac80	5210	Ant1	75.592

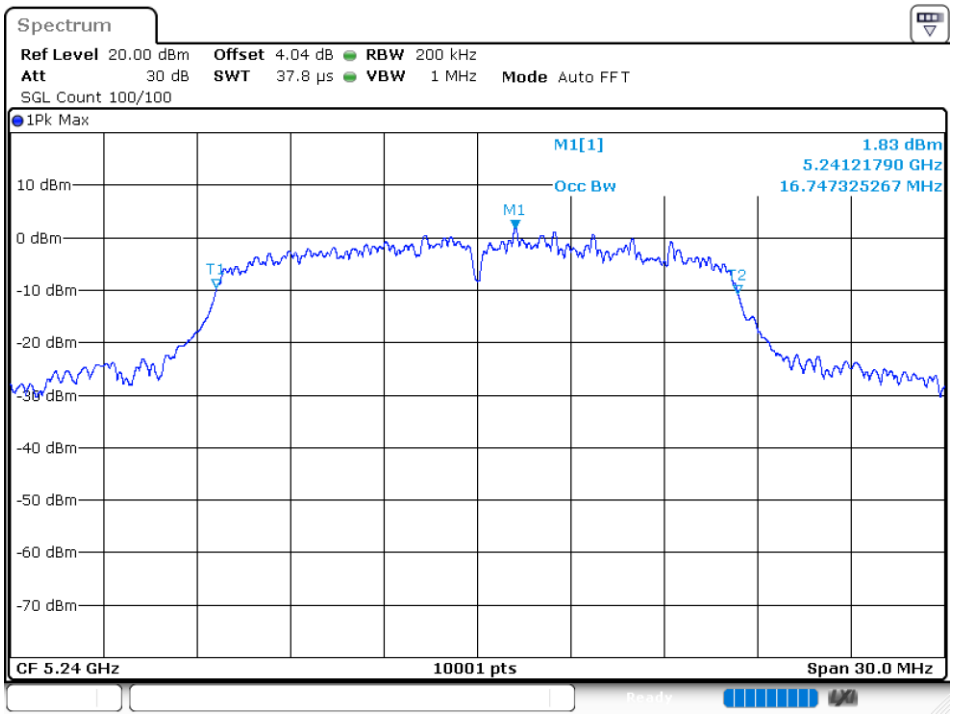
Test Graphs
OBW NVNT a 5180MHz Ant1



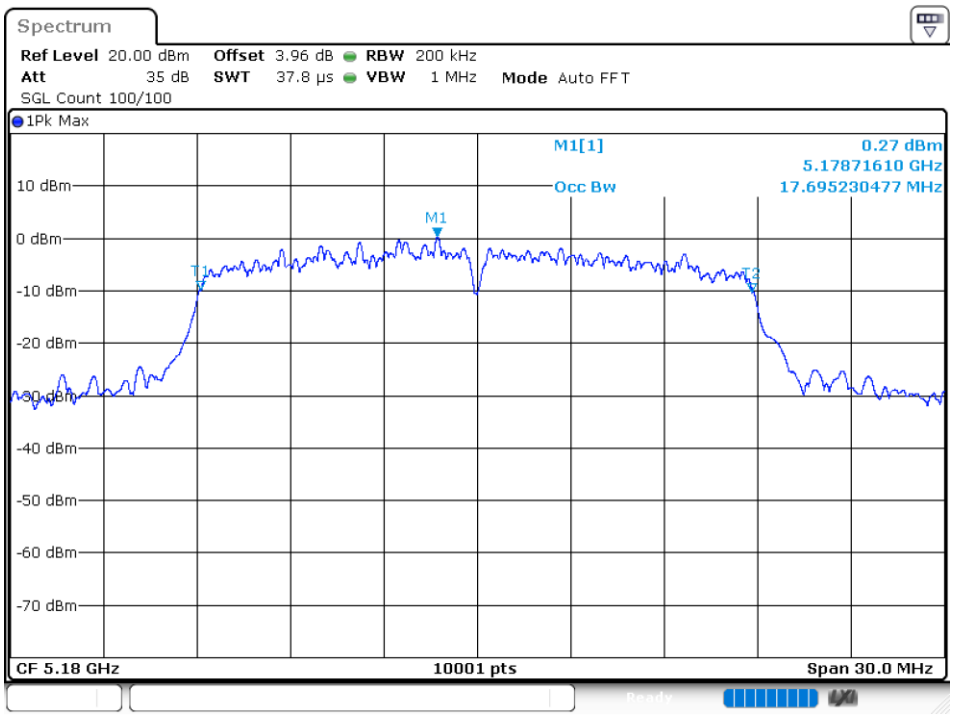
OBW NVNT a 5200MHz Ant1



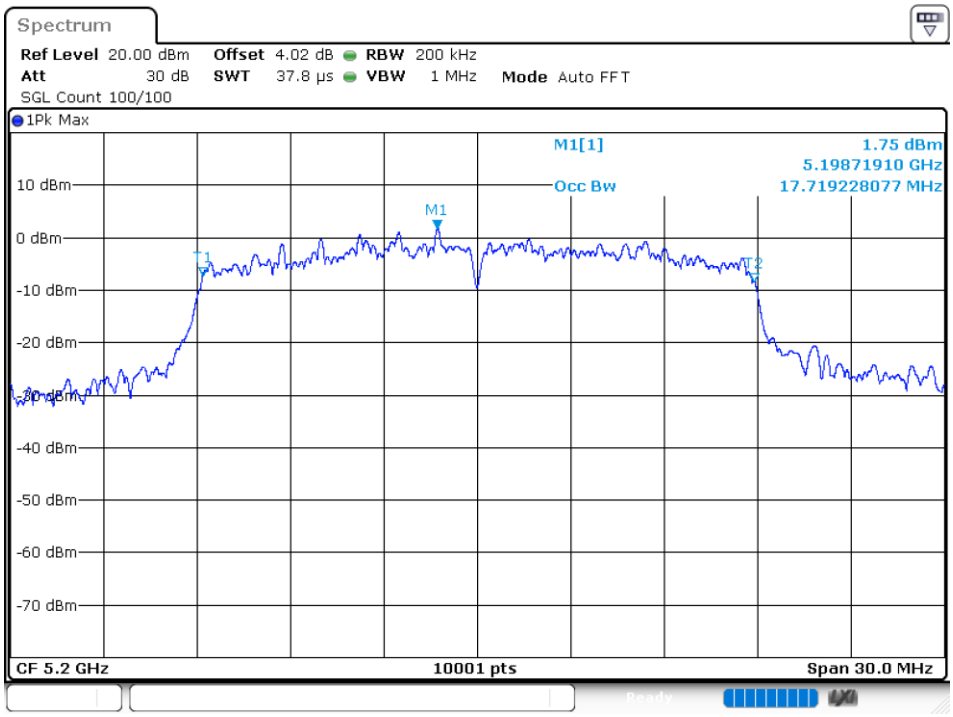
OBW NVNT a 5240MHz Ant1



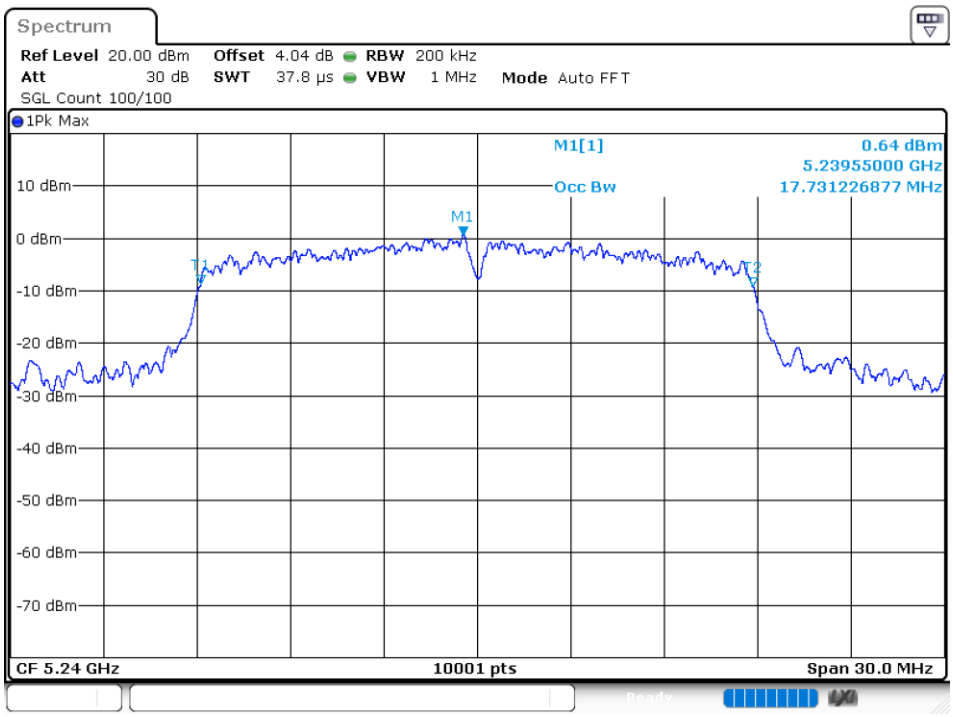
OBW NVNT n20 5180MHz Ant1



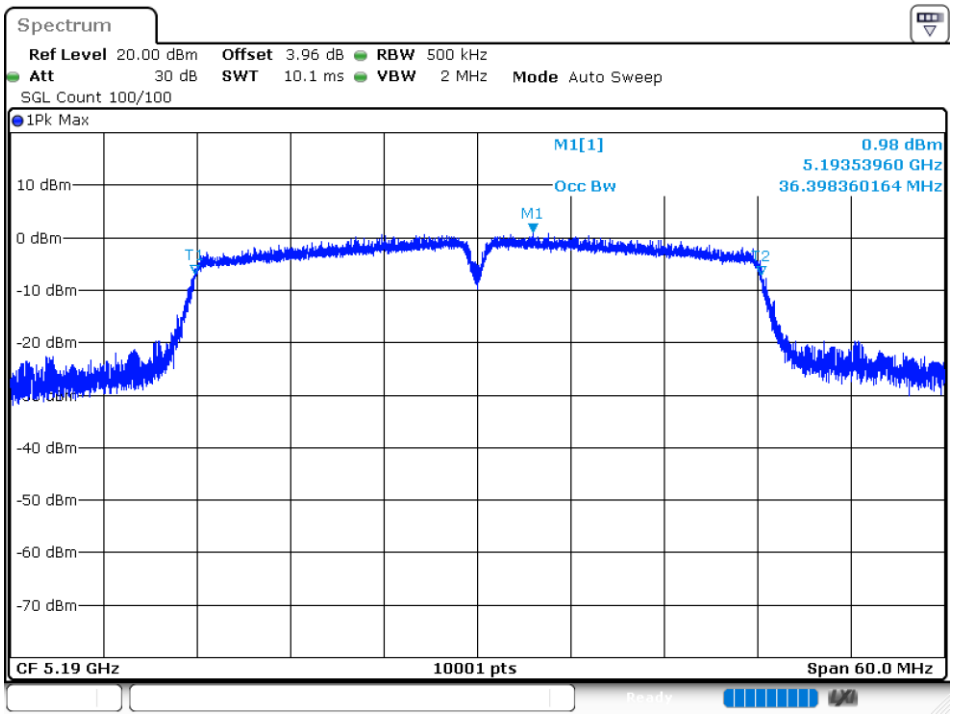
OBW NVNT n20 5200MHz Ant1



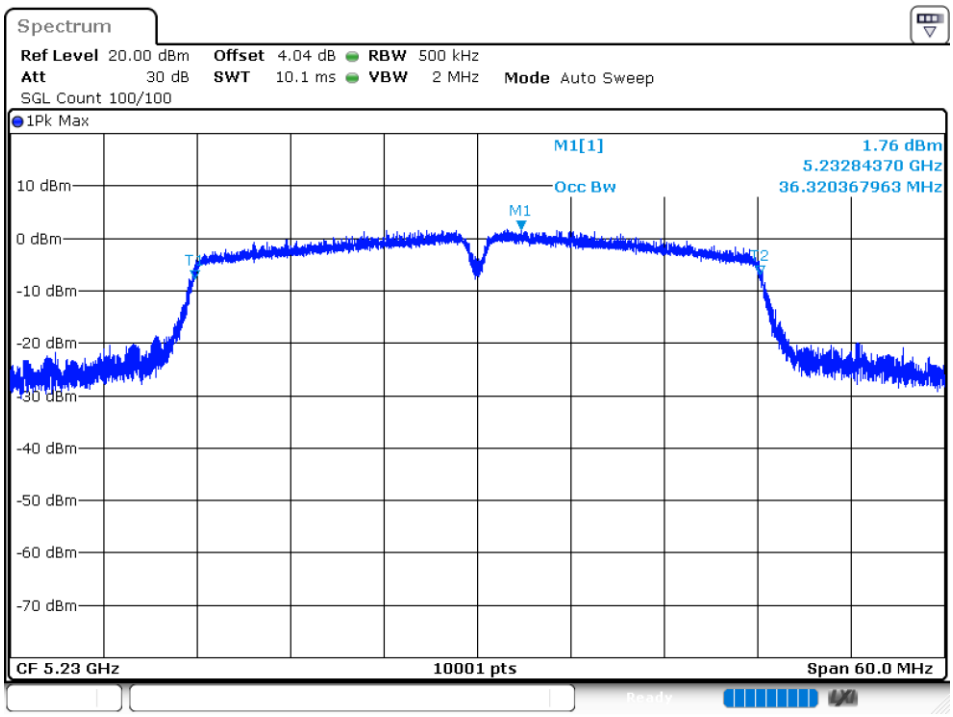
OBW NVNT n20 5240MHz Ant1



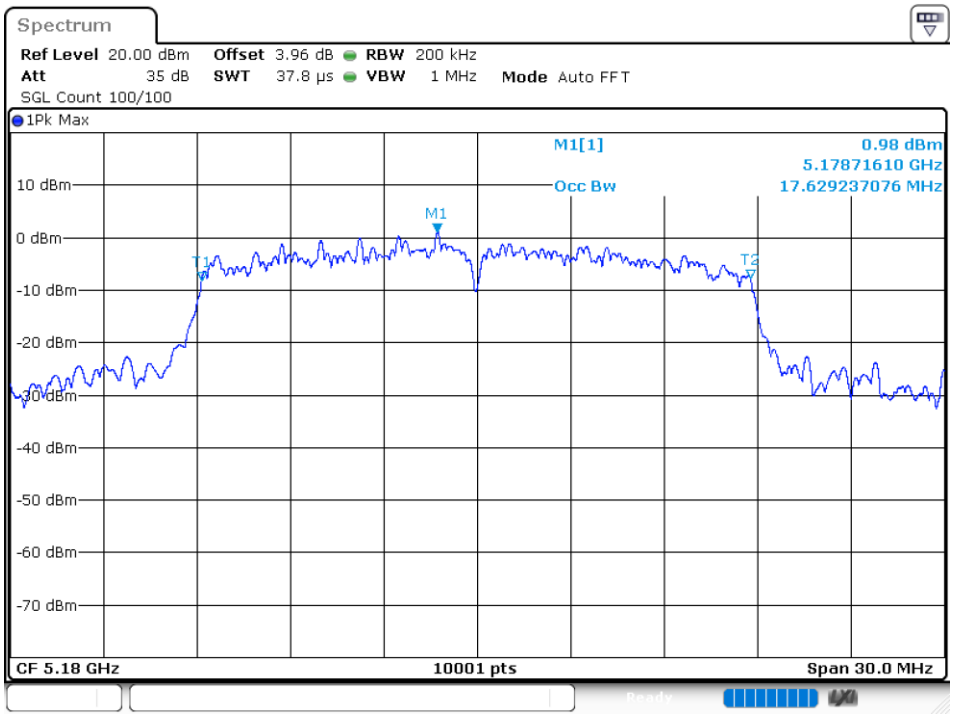
OBW NVNT n40 5190MHz Ant1



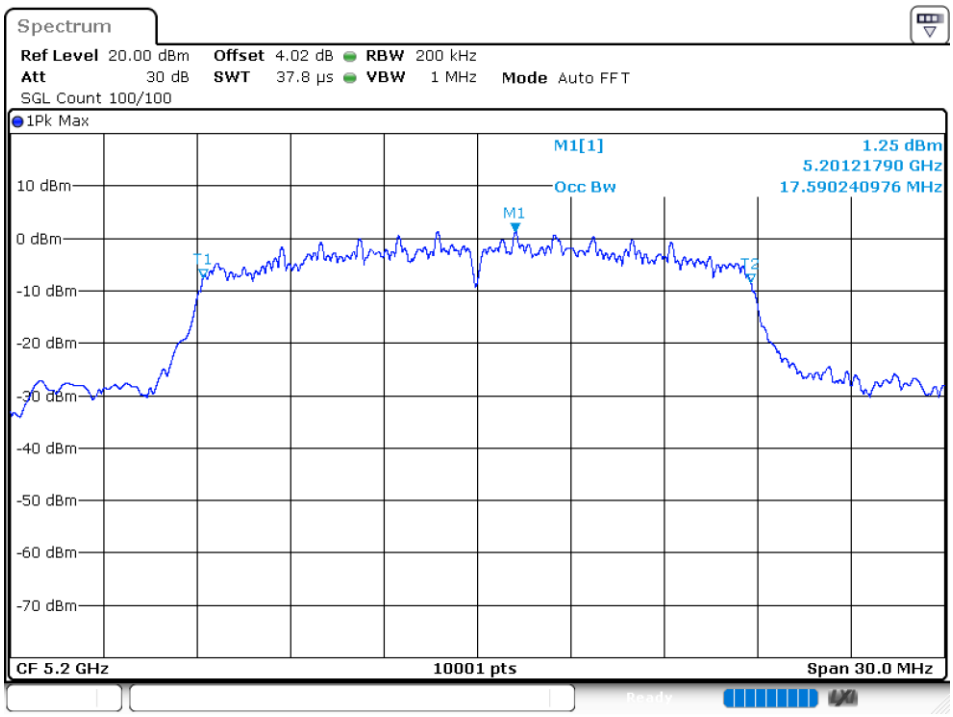
OBW NVNT n40 5230MHz Ant1



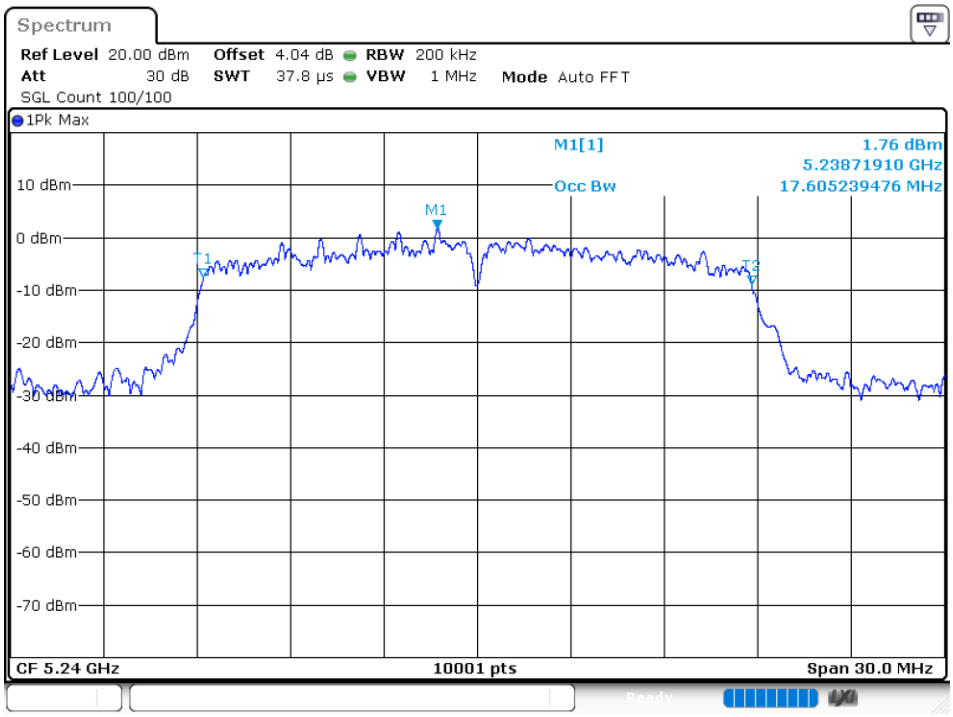
OBW NVNT ac20 5180MHz Ant1



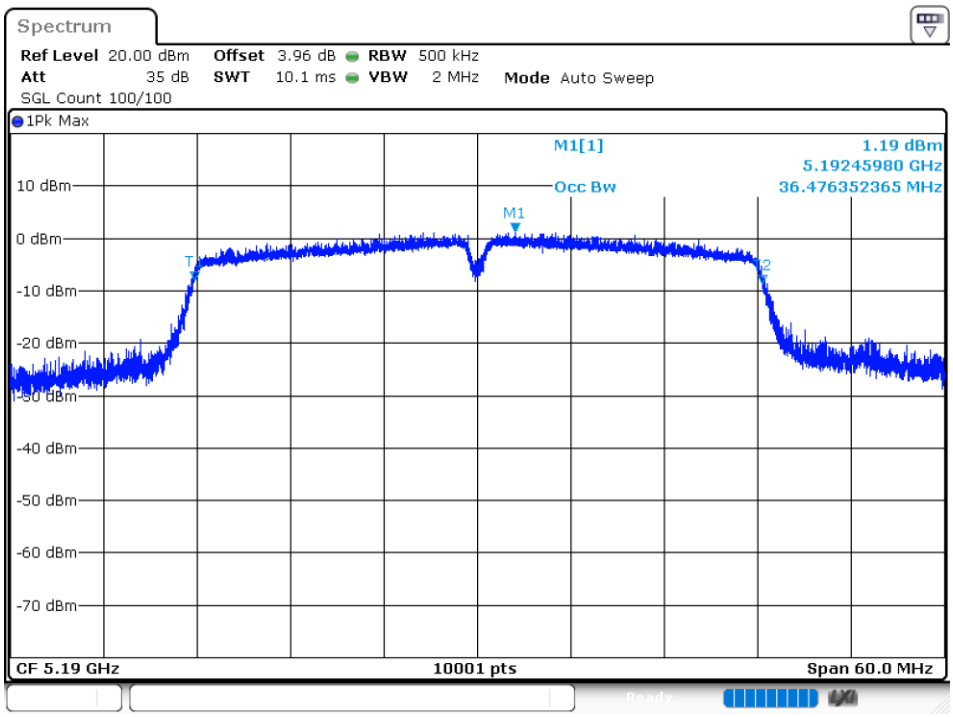
OBW NVNT ac20 5200MHz Ant1



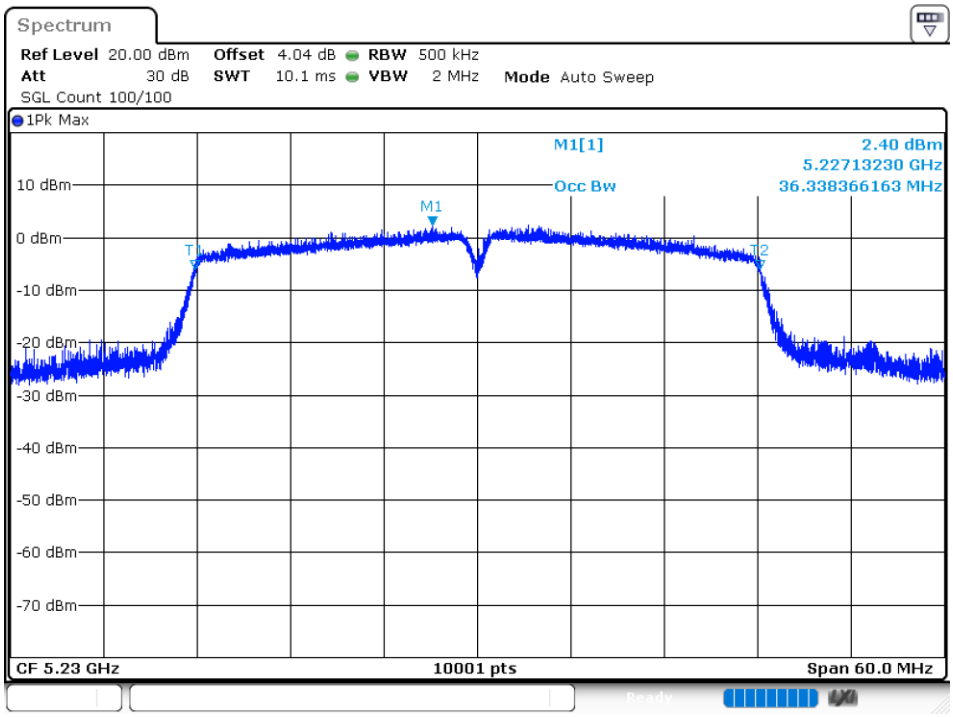
OBW NVNT ac20 5240MHz Ant1



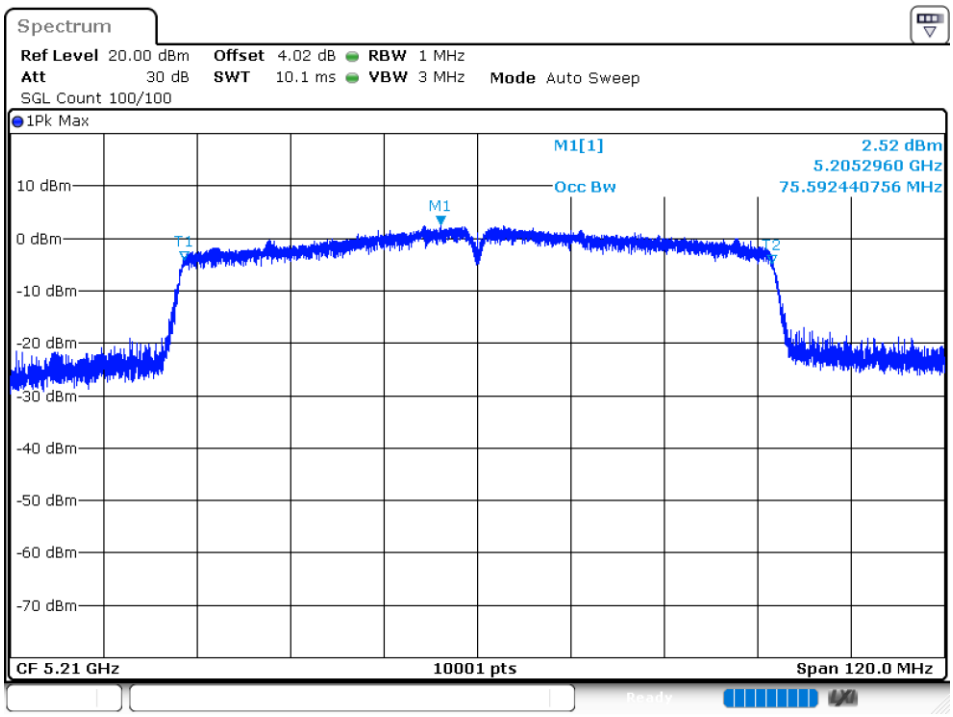
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



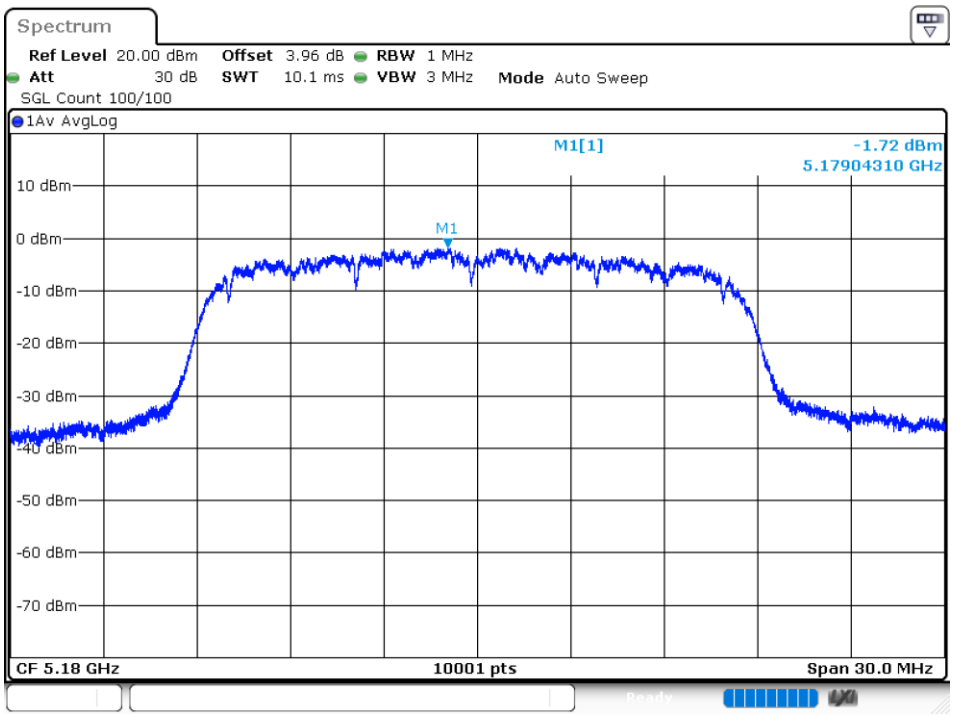
OBW NVNT ac80 5210MHz Ant1



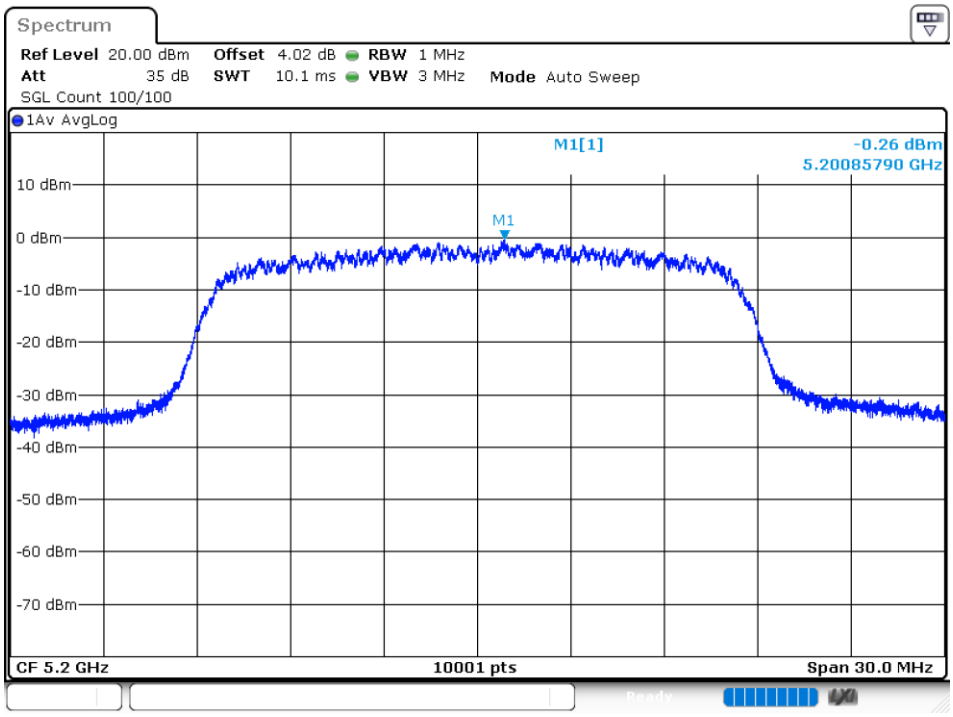
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-1.72	0.08	-1.64	11	Pass
NVNT	a	5200	Ant1	-0.26	0.08	-0.18	11	Pass
NVNT	a	5240	Ant1	-0.4	0.08	-0.32	11	Pass
NVNT	n20	5180	Ant1	-1.95	0.09	-1.86	11	Pass
NVNT	n20	5200	Ant1	-1.17	0.08	-1.09	11	Pass
NVNT	n20	5240	Ant1	-0.67	0.09	-0.58	11	Pass
NVNT	n40	5190	Ant1	-5.52	0.16	-5.36	11	Pass
NVNT	n40	5230	Ant1	-5.25	0.16	-5.09	11	Pass
NVNT	ac20	5180	Ant1	-1.87	0.09	-1.78	11	Pass
NVNT	ac20	5200	Ant1	-1.01	0.08	-0.93	11	Pass
NVNT	ac20	5240	Ant1	-0.86	0.08	-0.78	11	Pass
NVNT	ac40	5190	Ant1	-4.55	0.16	-4.39	11	Pass
NVNT	ac40	5230	Ant1	-4.26	0.16	-4.1	11	Pass
NVNT	ac80	5210	Ant1	-10.06	0.31	-9.75	11	Pass

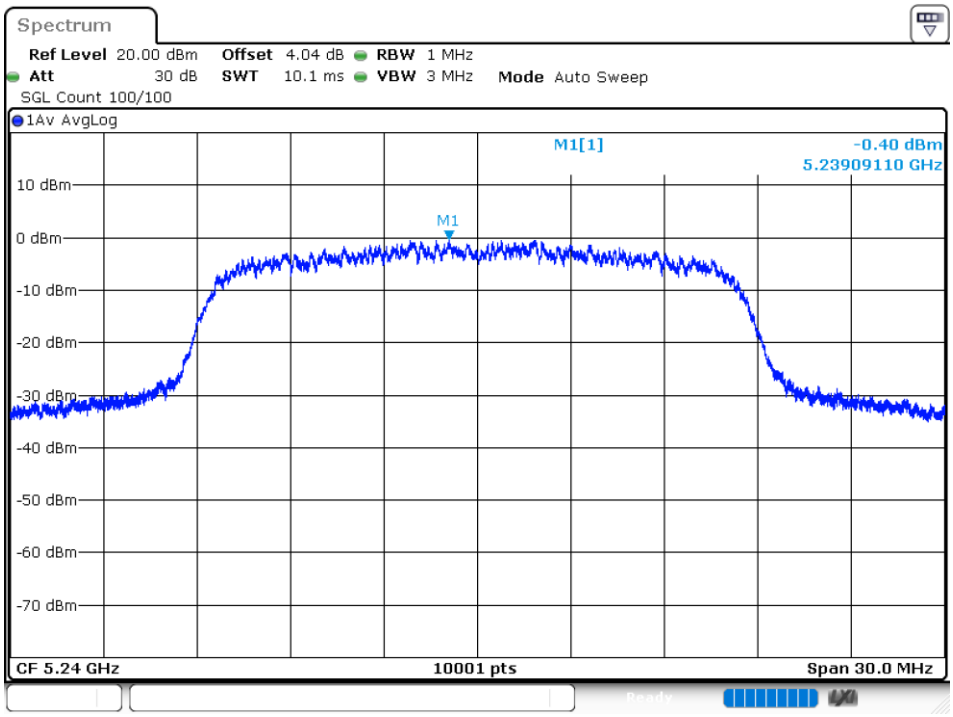
Test Graphs
PSD NVNT a 5180MHz Ant1



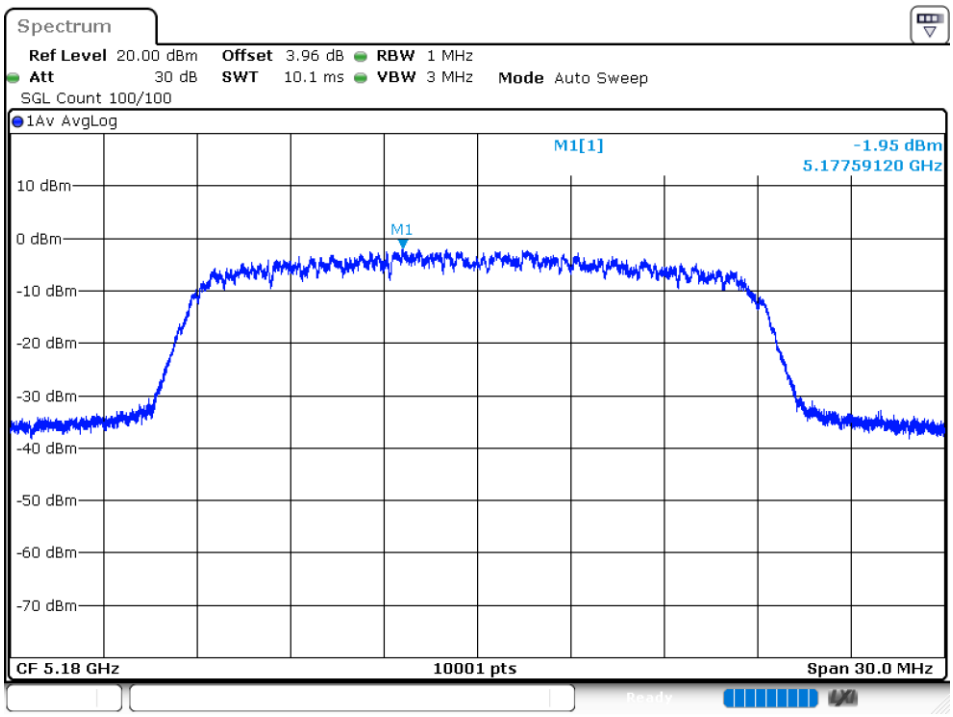
PSD NVNT a 5200MHz Ant1



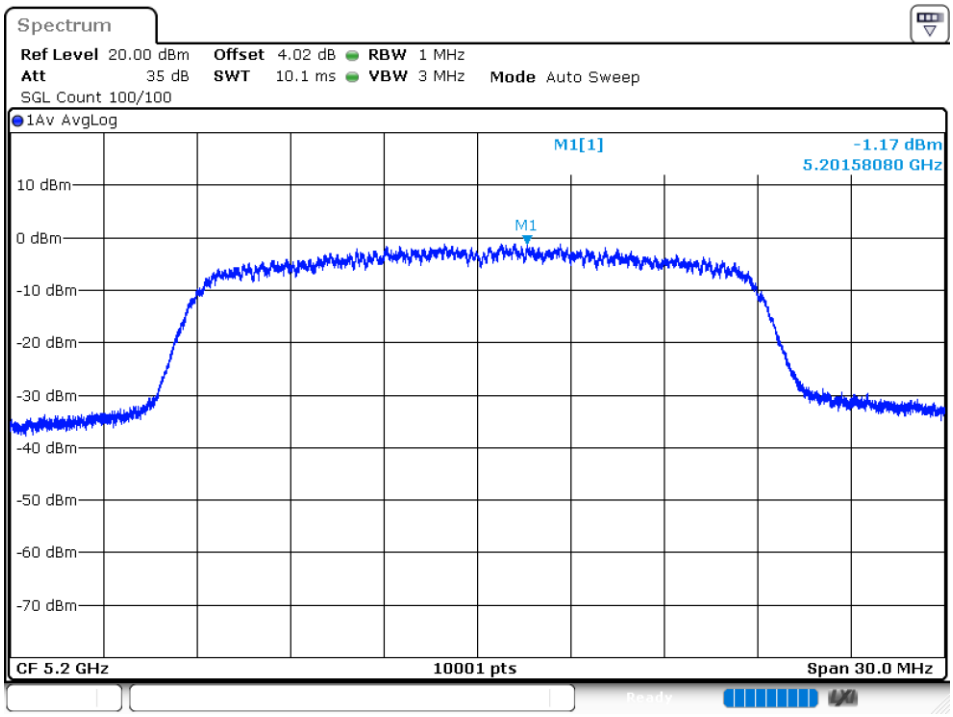
PSD NVNT a 5240MHz Ant1



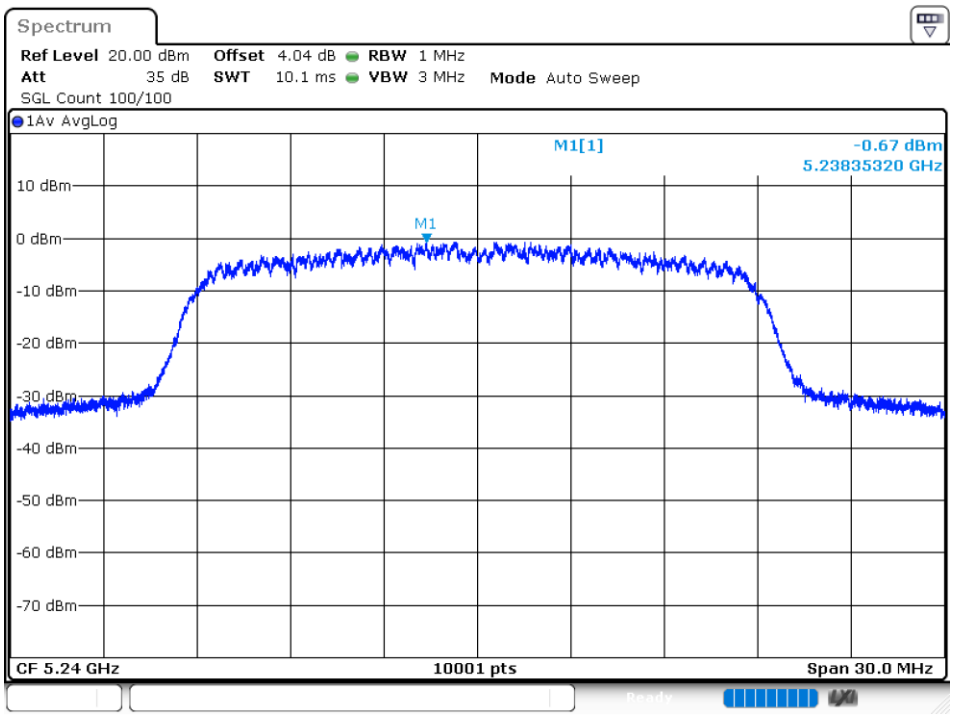
PSD NVNT n20 5180MHz Ant1



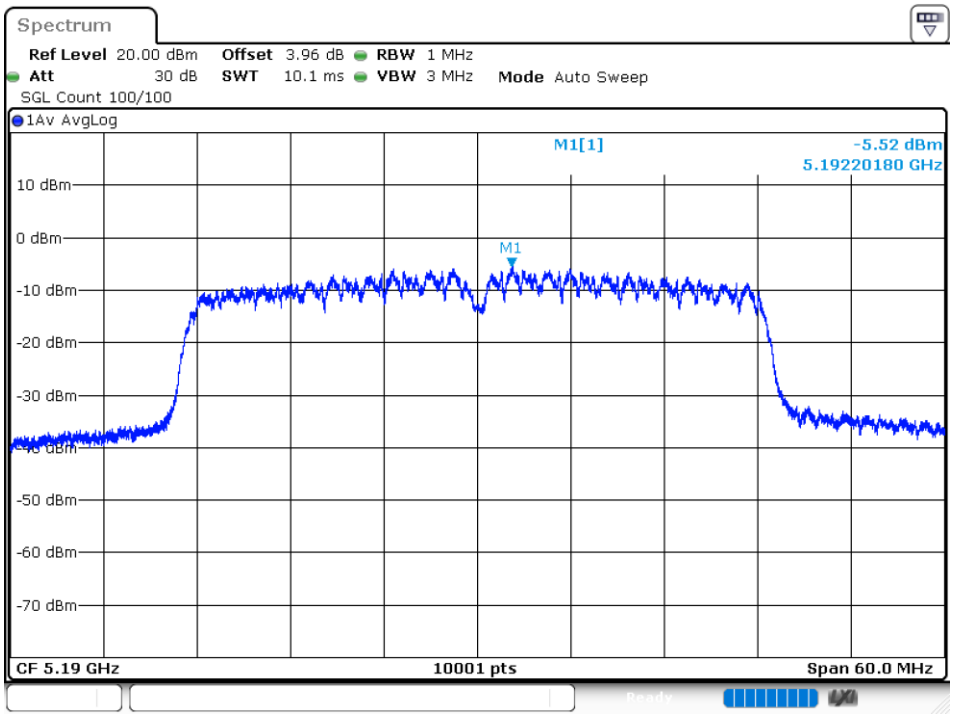
PSD NVNT n20 5200MHz Ant1



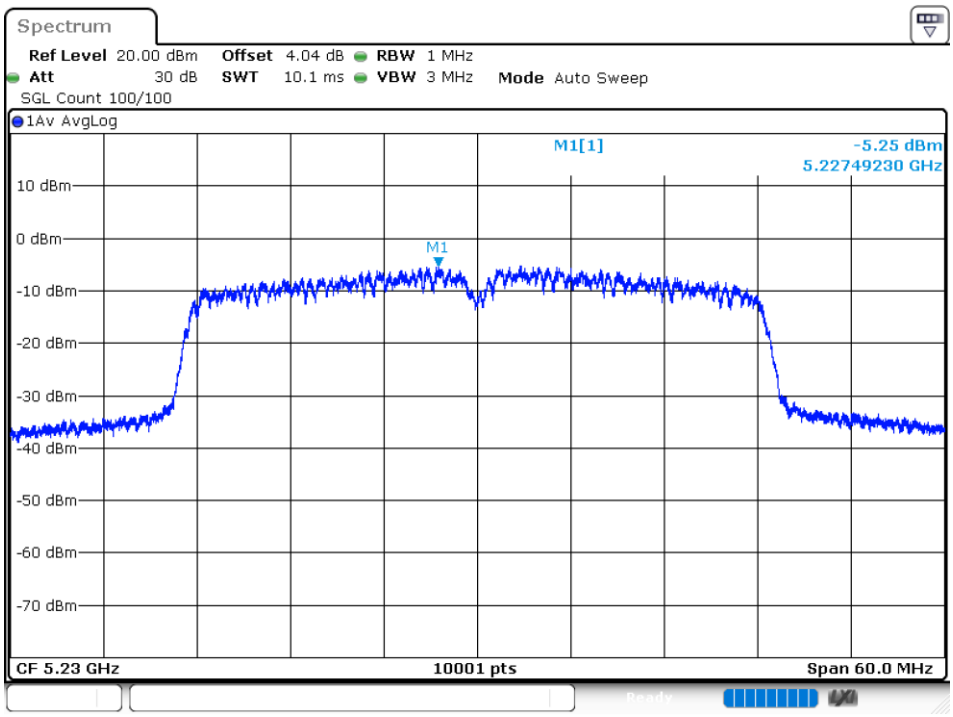
PSD NVNT n20 5240MHz Ant1



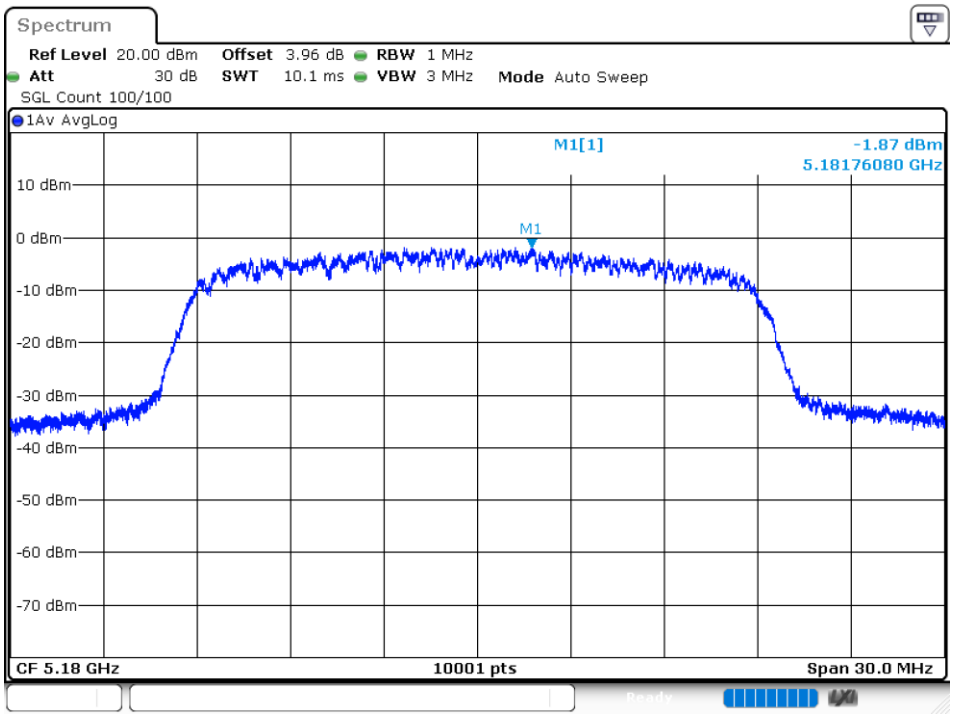
PSD NVNT n40 5190MHz Ant1



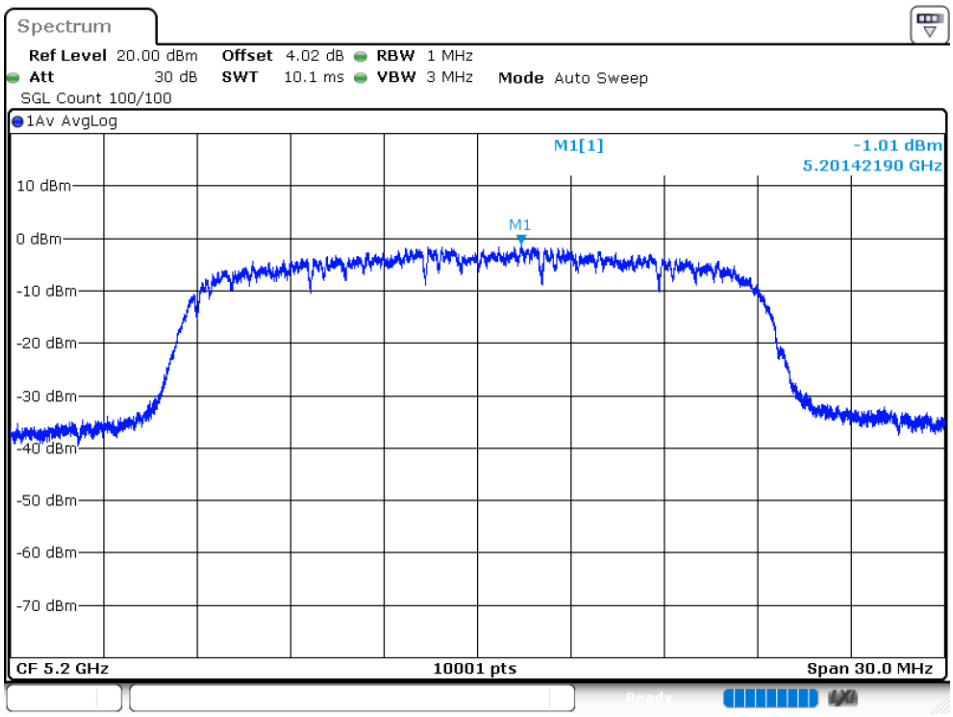
PSD NVNT n40 5230MHz Ant1



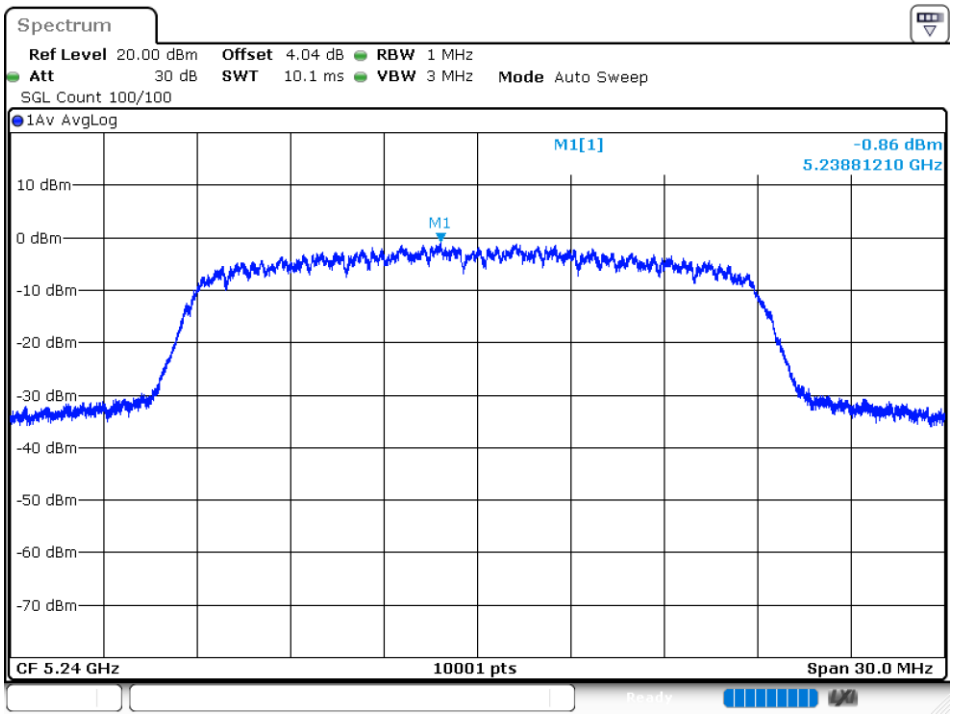
PSD NVNT ac20 5180MHz Ant1



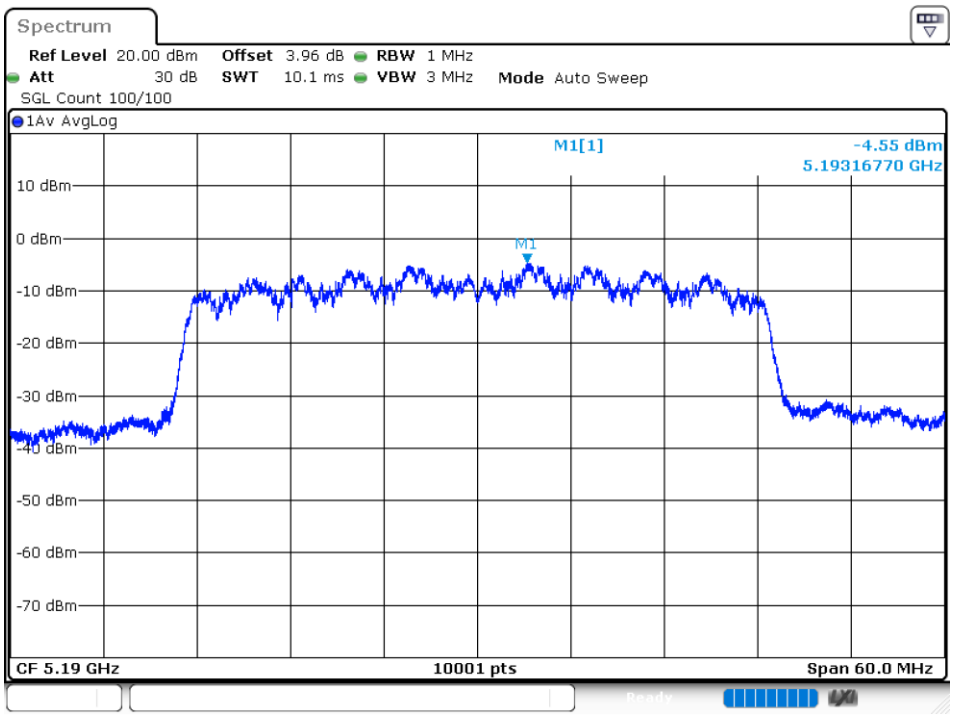
PSD NVNT ac20 5200MHz Ant1



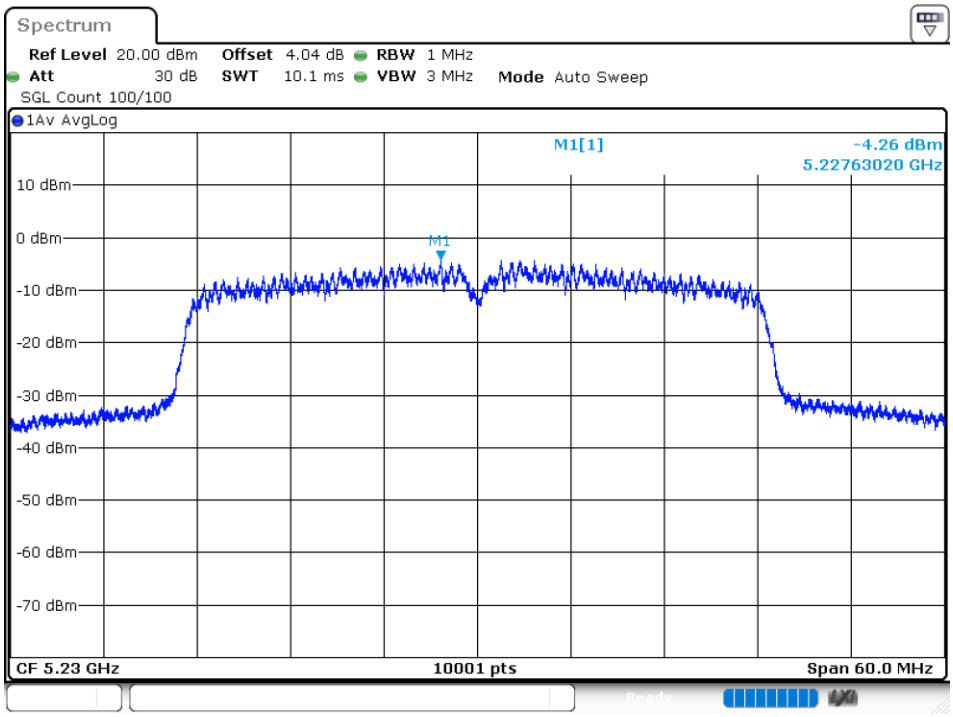
PSD NVNT ac20 5240MHz Ant1



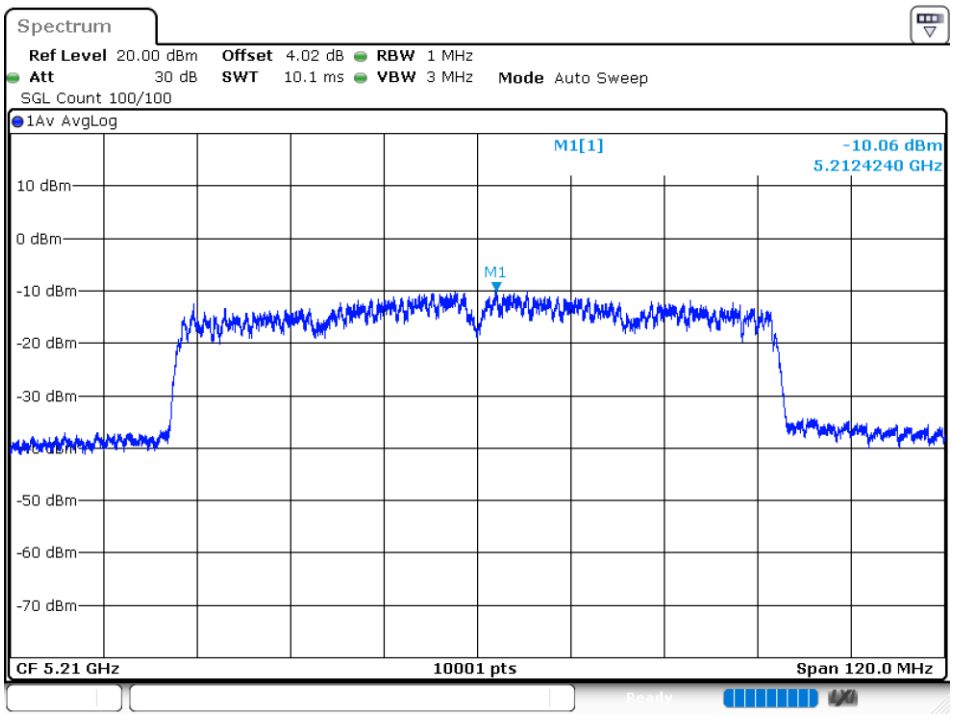
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



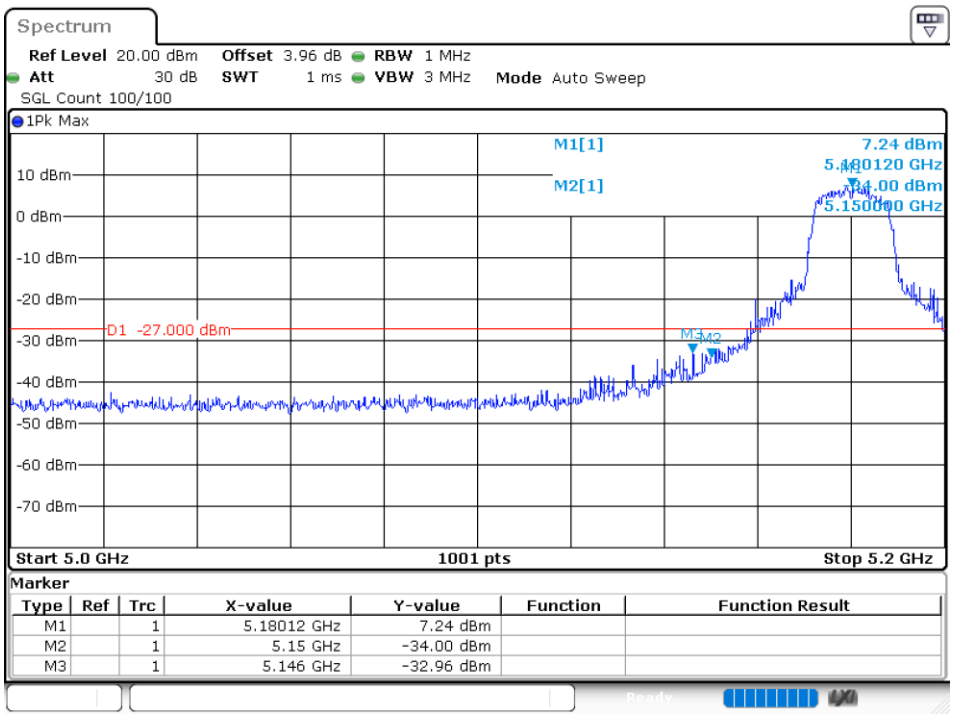
PSD NVNT ac80 5210MHz Ant1



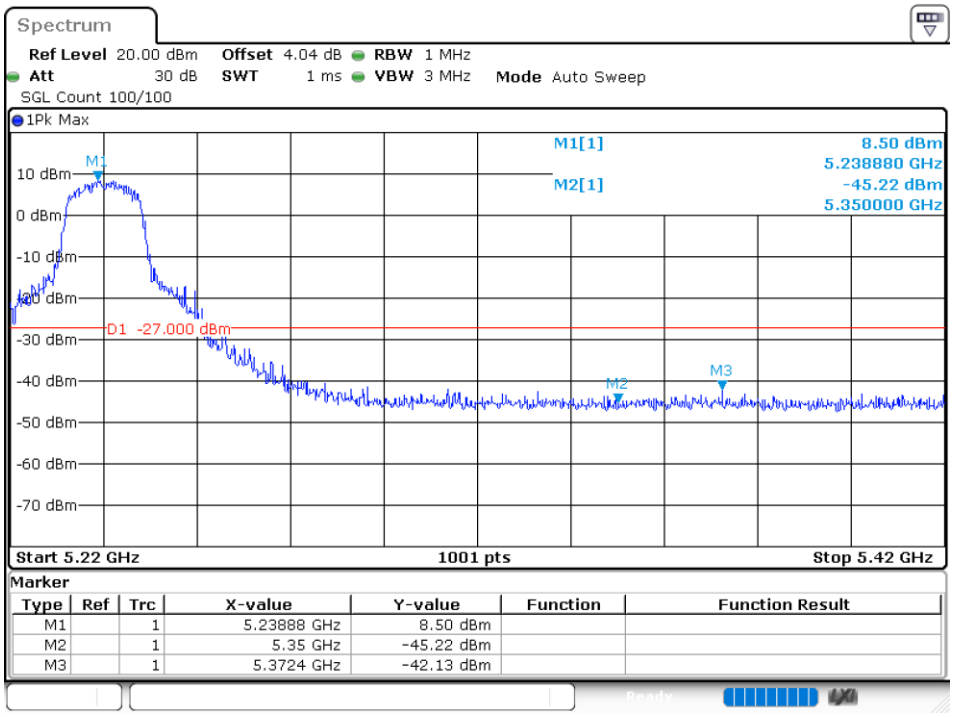
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-32.96	-27	Pass
NVNT	a	5240	Ant1	-42.12	-27	Pass
NVNT	n20	5180	Ant1	-31.25	-27	Pass
NVNT	n20	5240	Ant1	-42.31	-27	Pass
NVNT	n40	5190	Ant1	-27.06	-27	Pass
NVNT	n40	5230	Ant1	-43.54	-27	Pass
NVNT	ac20	5180	Ant1	-27.27	-27	Pass
NVNT	ac20	5240	Ant1	-42.9	-27	Pass
NVNT	ac40	5190	Ant1	-27.34	-27	Pass
NVNT	ac40	5230	Ant1	-42.96	-27	Pass
NVNT	ac80	5210	Ant1	-27.44	-27	Pass
NVNT	ac80	5210	Ant1	-40.47	-27	Pass

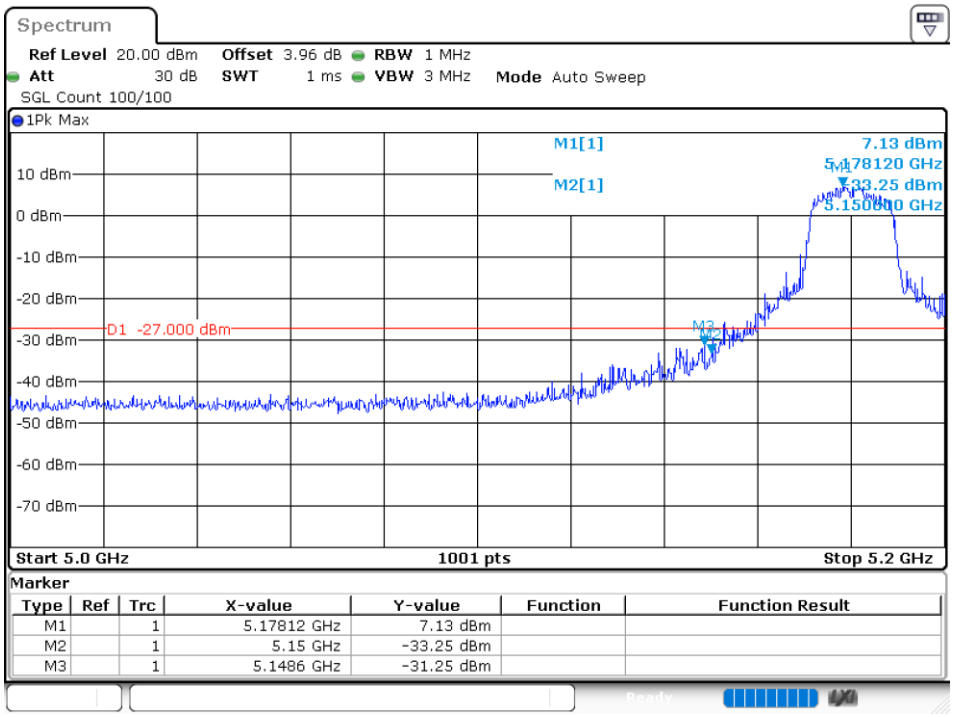
Test Graphs
Band Edge NVNT a 5180MHz Low Ant1



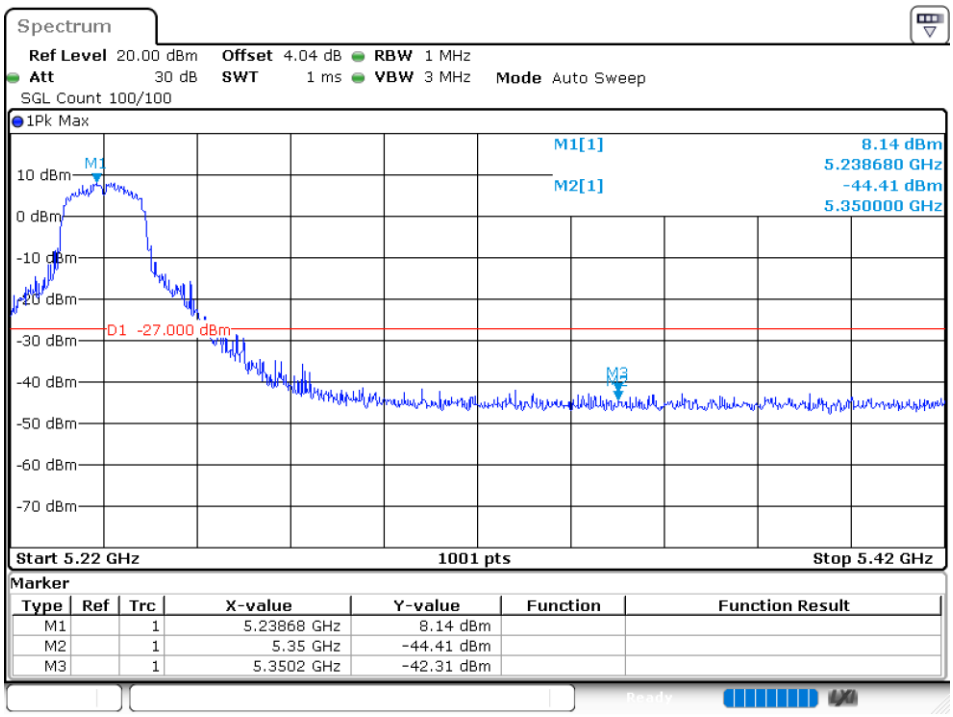
Band Edge NVNT a 5240MHz High Ant1



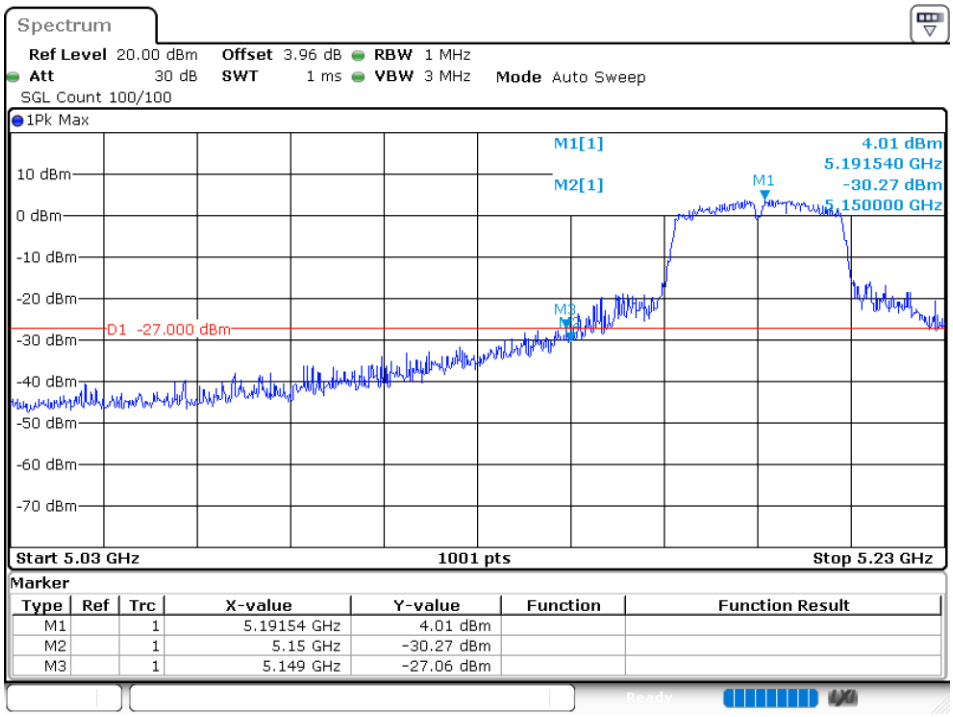
Band Edge NVNT n20 5180MHz Low Ant1



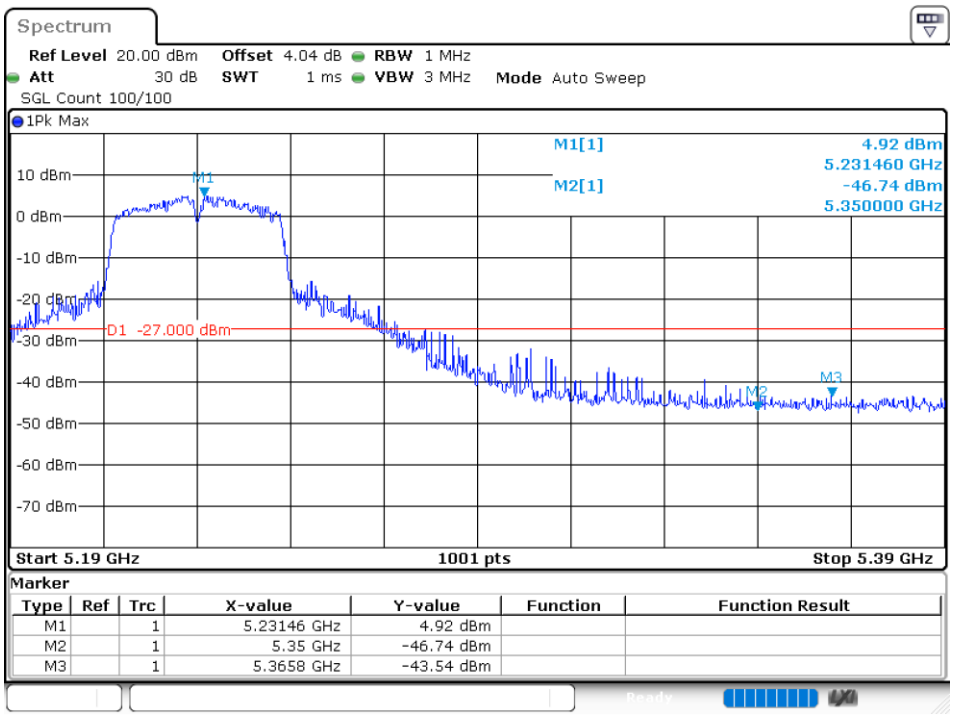
Band Edge NVNT n20 5240MHz High Ant1



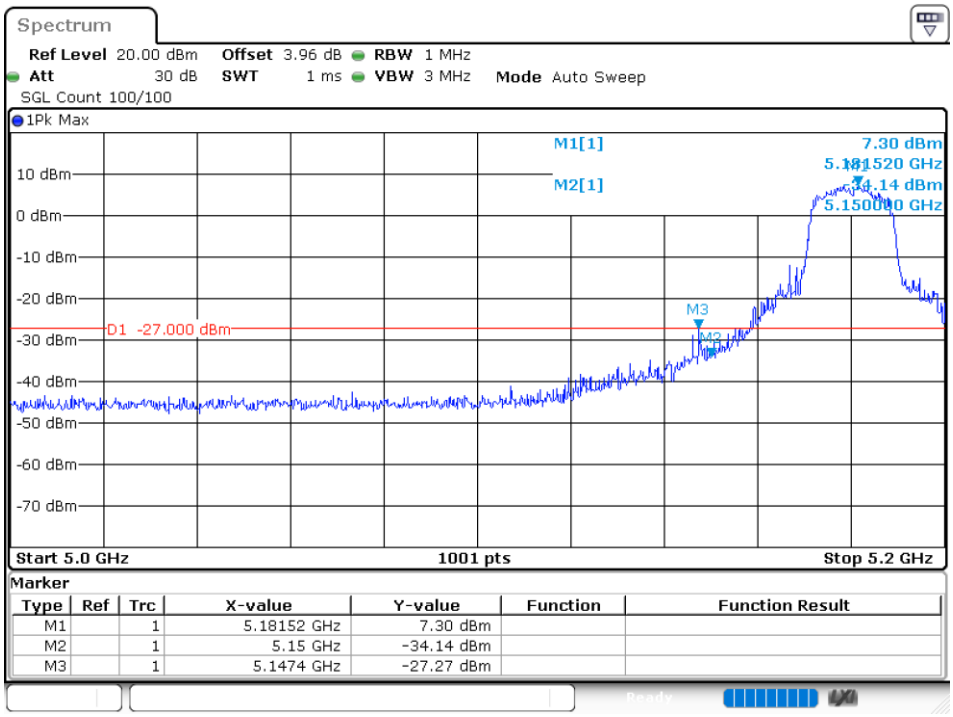
Band Edge NVNT n40 5190MHz Low Ant1



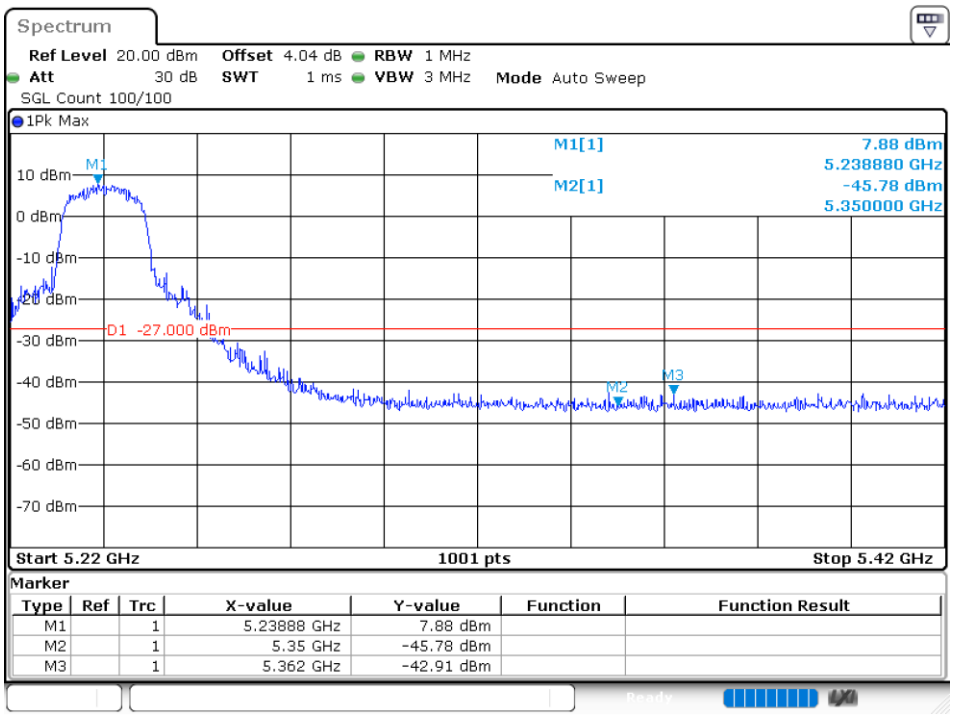
Band Edge NVNT n40 5230MHz High Ant1



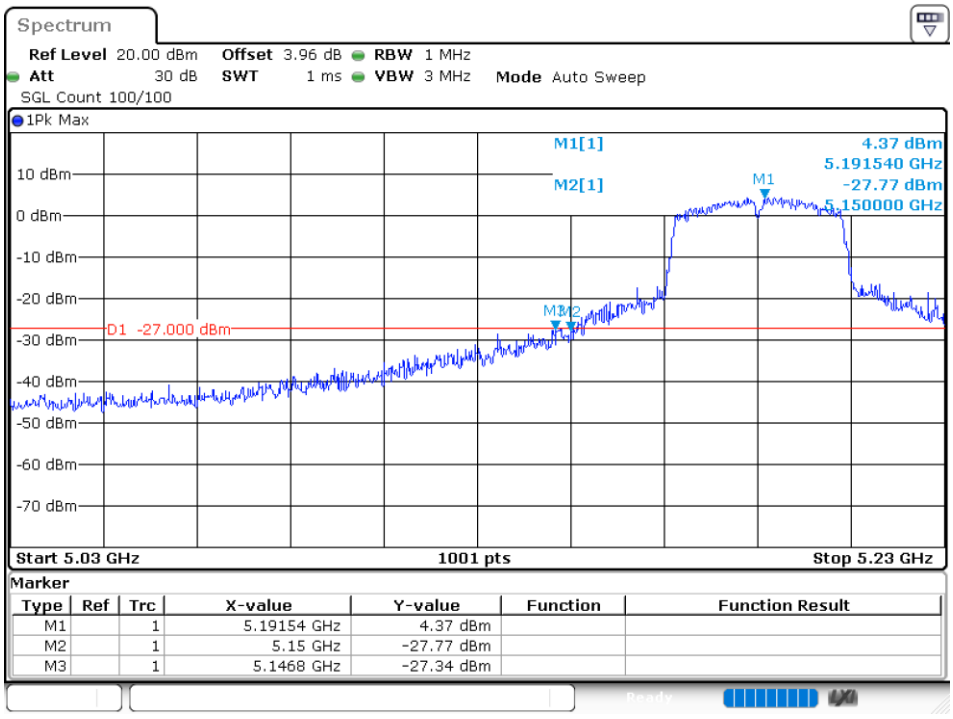
Band Edge NVNT ac20 5180MHz Low Ant1



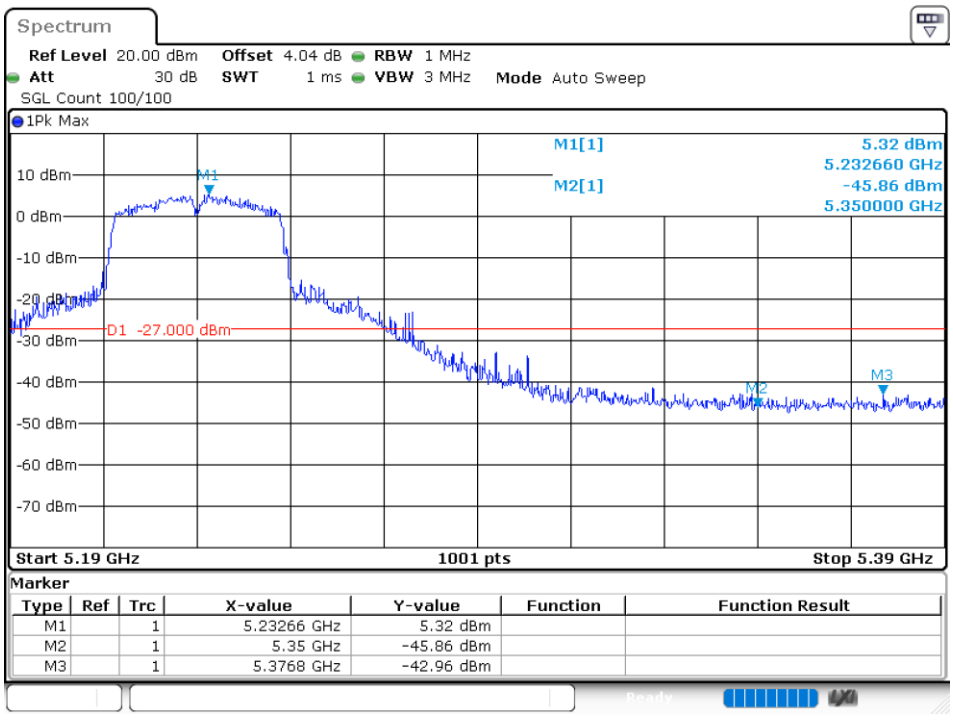
Band Edge NVNT ac20 5240MHz High Ant1



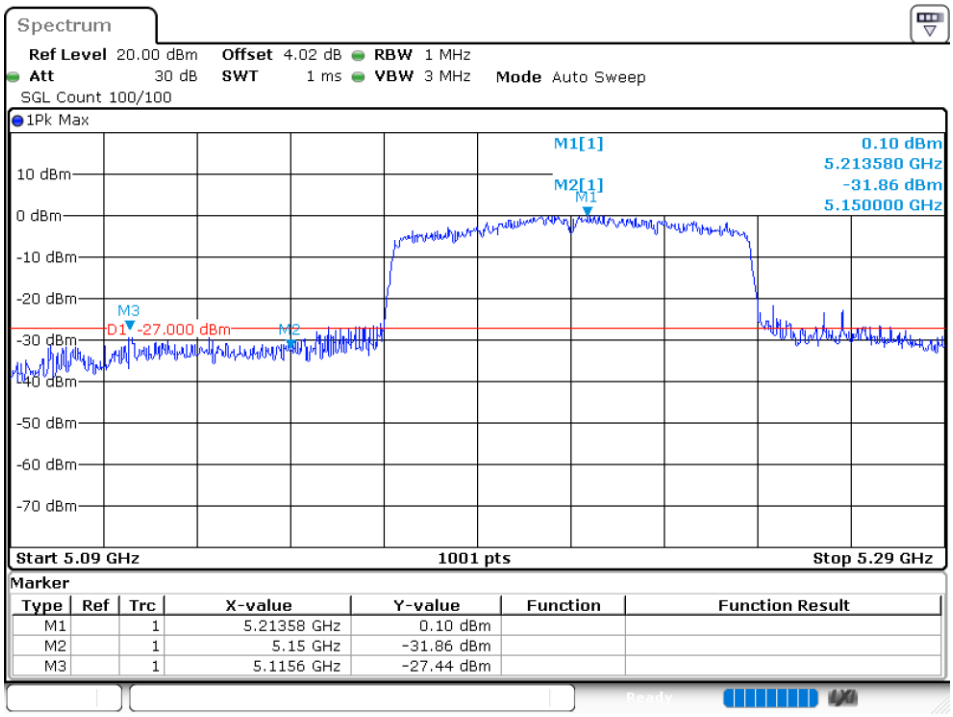
Band Edge NVNT ac40 5190MHz Low Ant1



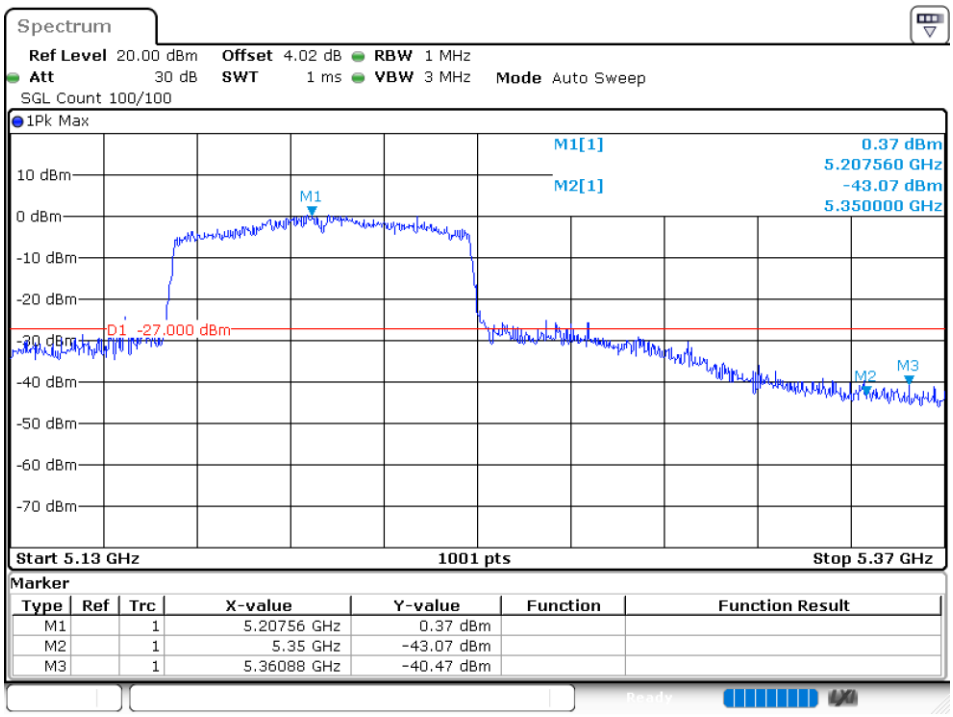
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1



Band Edge NVNT ac80 5210MHz High Ant1

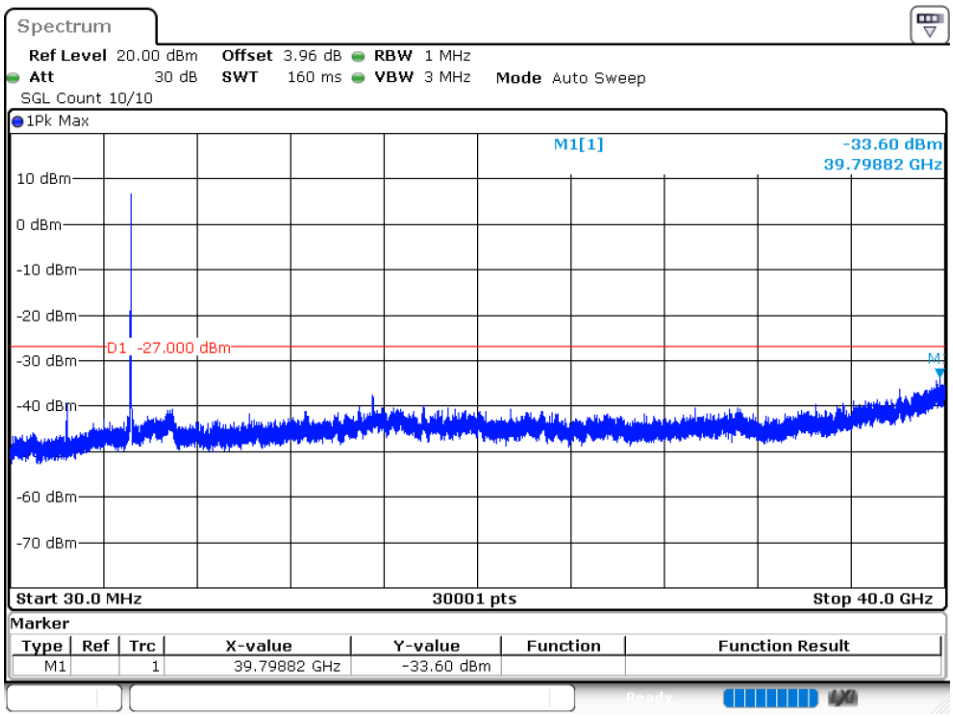


Conducted RF Spurious Emission

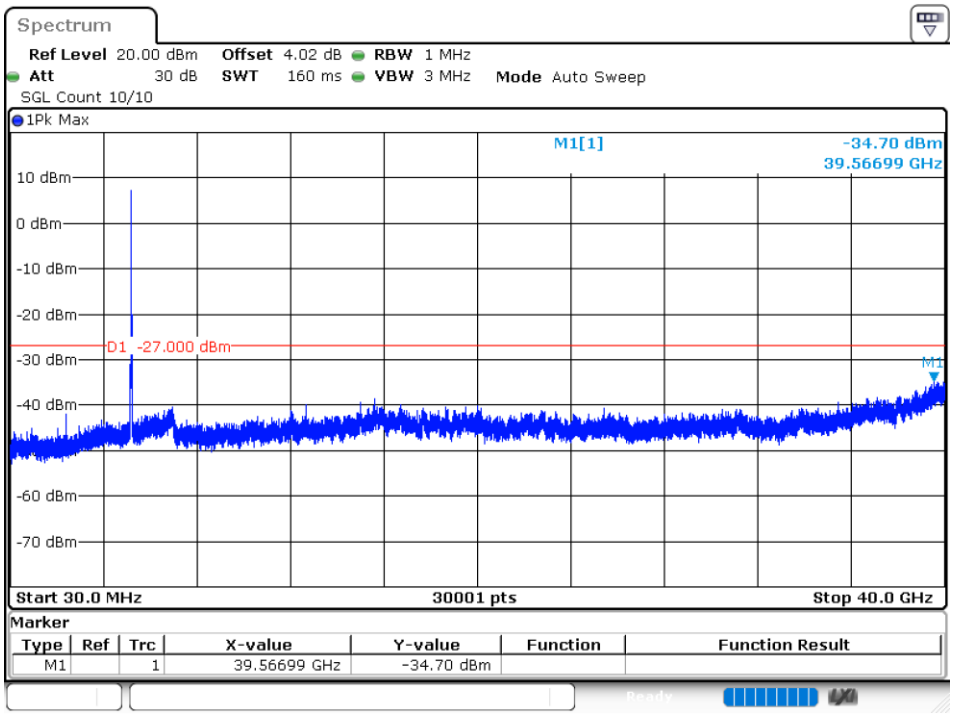
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-33.59	-27	Pass
NVNT	a	5200	Ant1	-34.7	-27	Pass
NVNT	a	5240	Ant1	-34.42	-27	Pass
NVNT	n20	5180	Ant1	-34.54	-27	Pass
NVNT	n20	5200	Ant1	-34.59	-27	Pass
NVNT	n20	5240	Ant1	-34.34	-27	Pass
NVNT	n40	5190	Ant1	-34.49	-27	Pass
NVNT	n40	5230	Ant1	-34.77	-27	Pass
NVNT	ac20	5180	Ant1	-34.74	-27	Pass
NVNT	ac20	5200	Ant1	-34.6	-27	Pass
NVNT	ac20	5240	Ant1	-34.43	-27	Pass
NVNT	ac40	5190	Ant1	-34.38	-27	Pass
NVNT	ac40	5230	Ant1	-34.41	-27	Pass
NVNT	ac80	5210	Ant1	-35.13	-27	Pass

Test Graphs

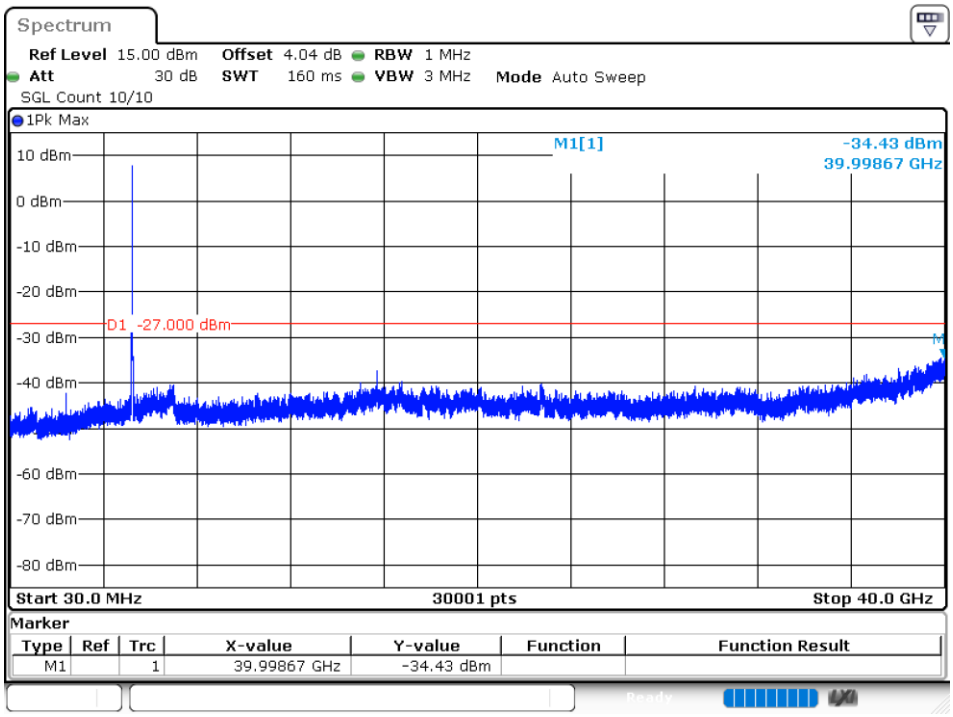
Tx. Spurious NVNT a 5180MHz Ant1 Emission



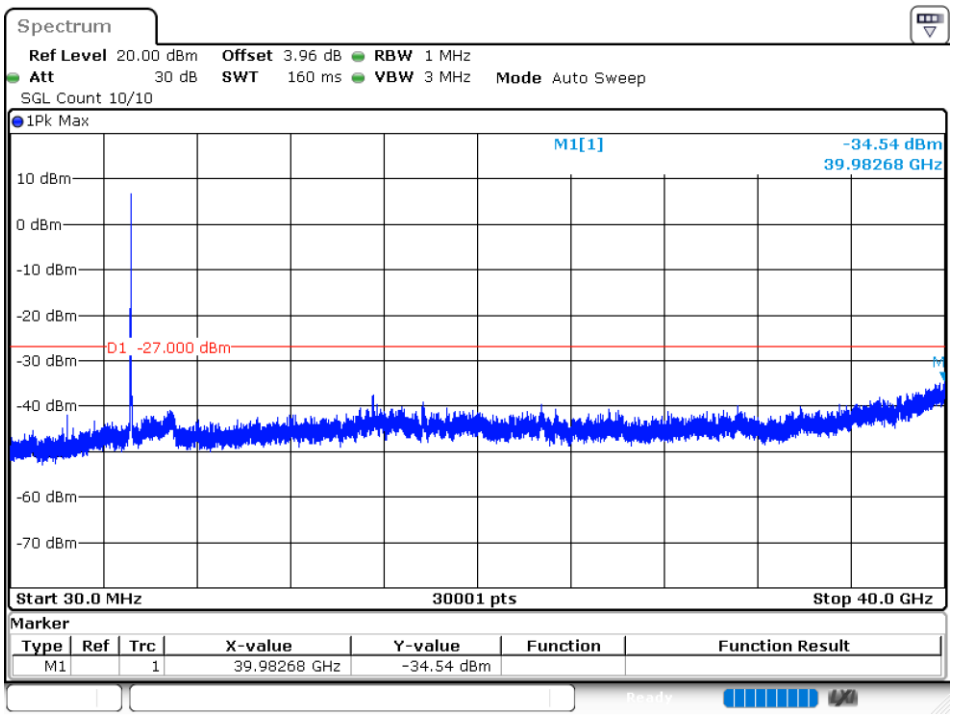
Tx. Spurious NVNT a 5200MHz Ant1 Emission



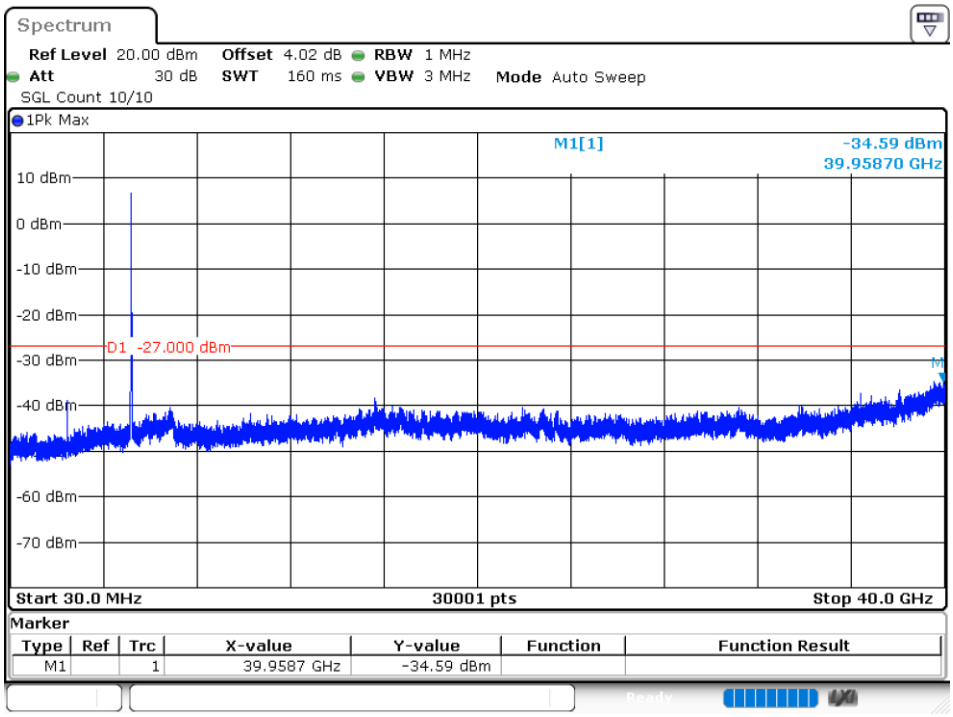
Tx. Spurious NVNT a 5240MHz Ant1 Emission



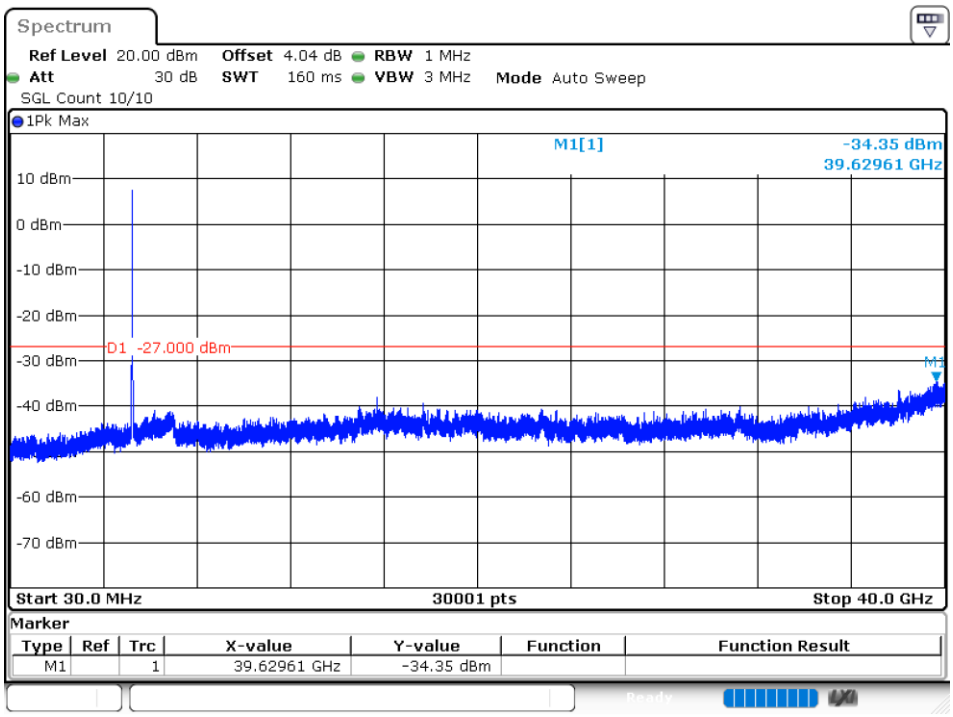
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



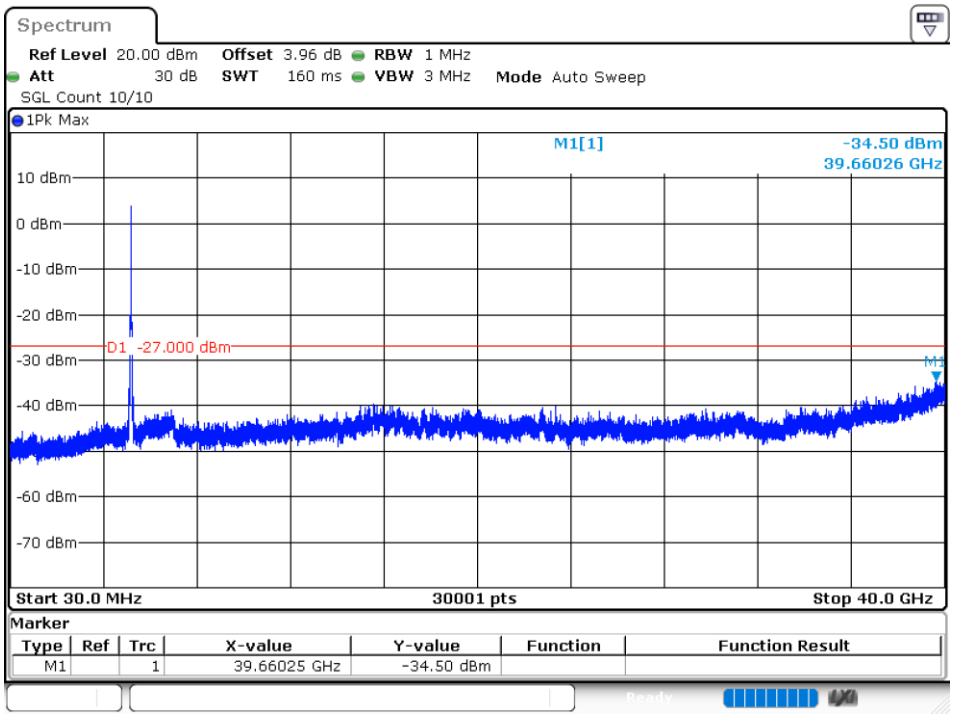
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



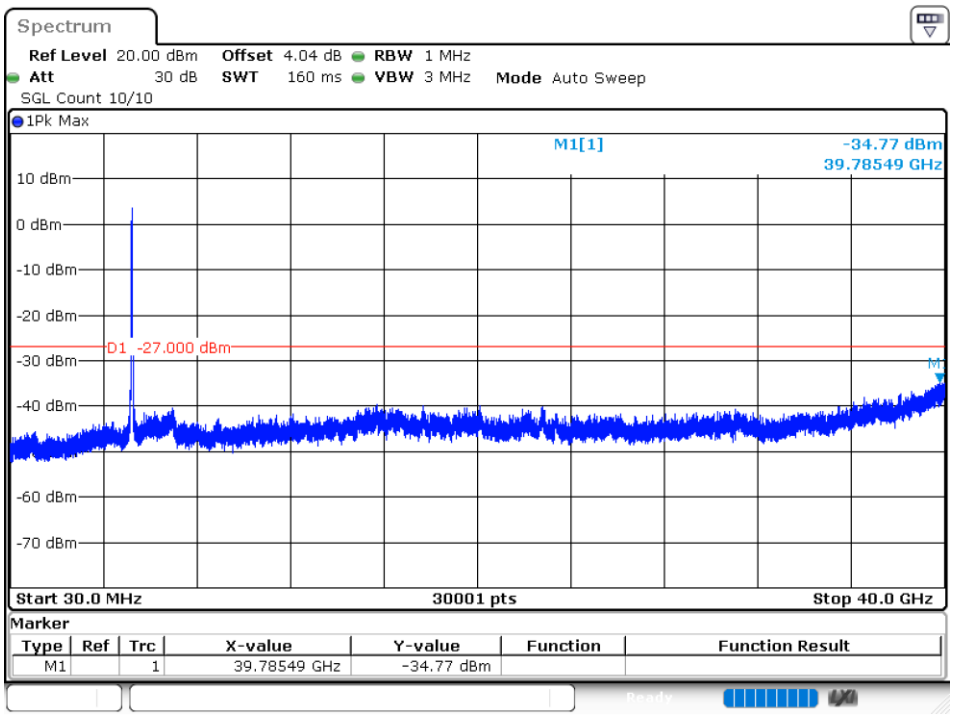
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



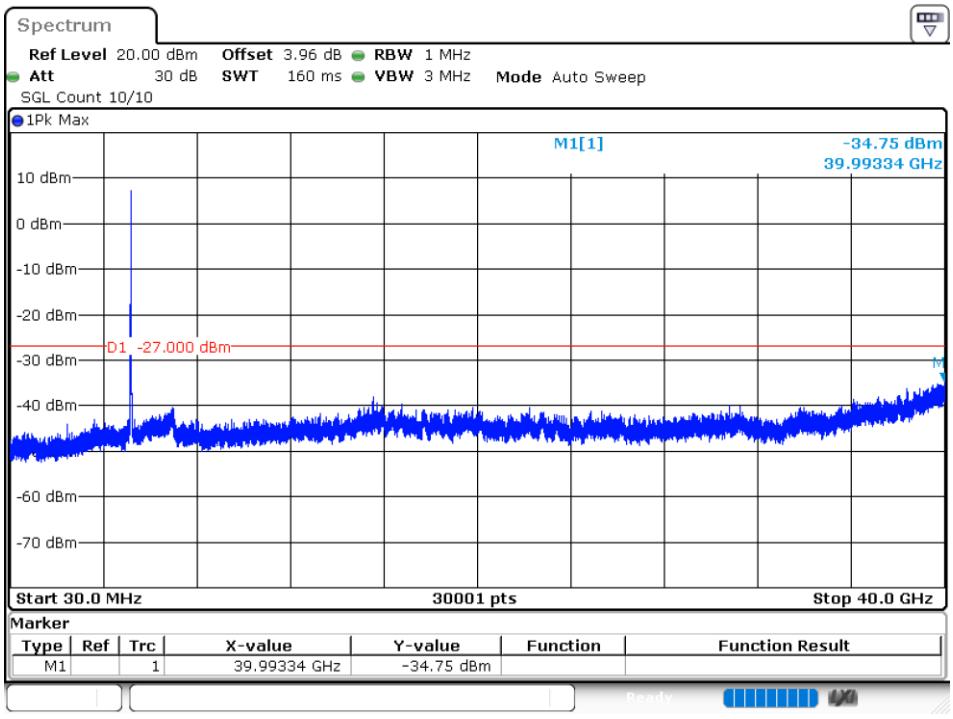
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



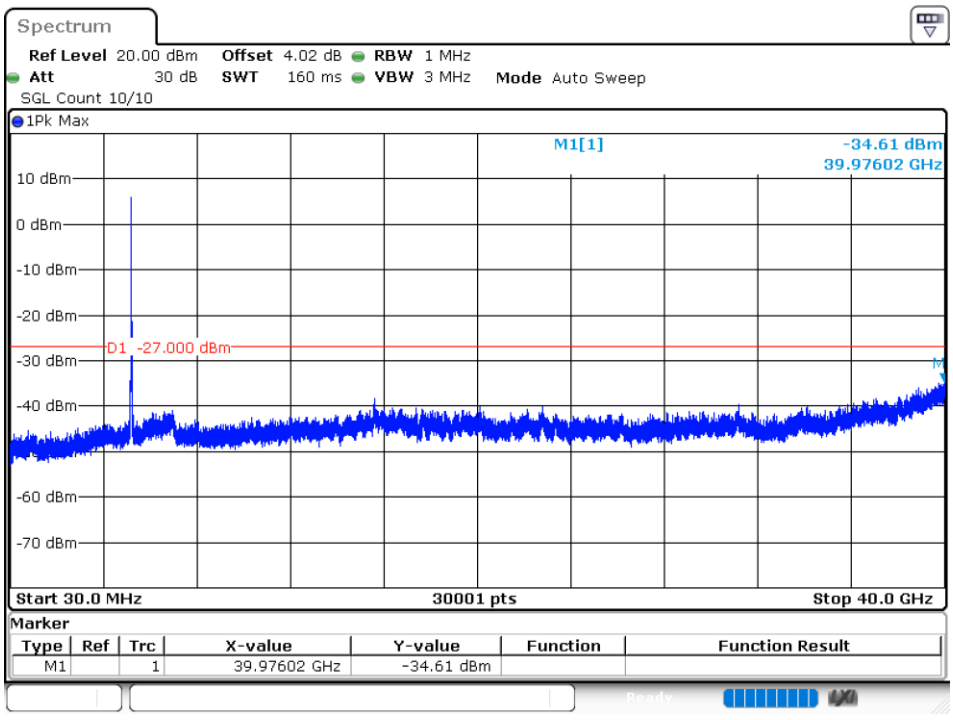
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



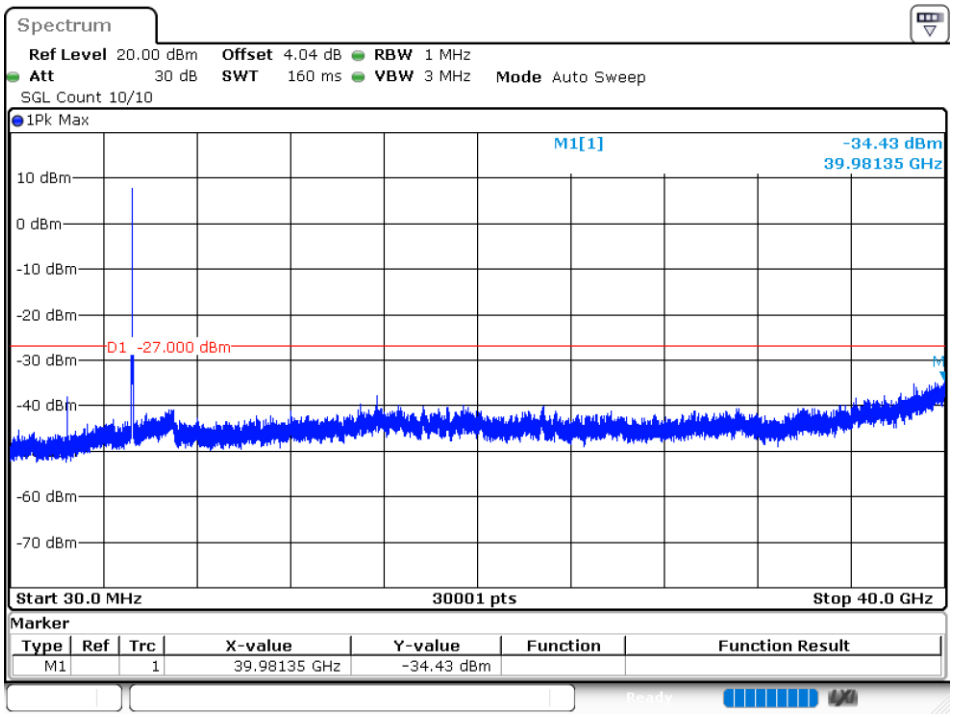
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



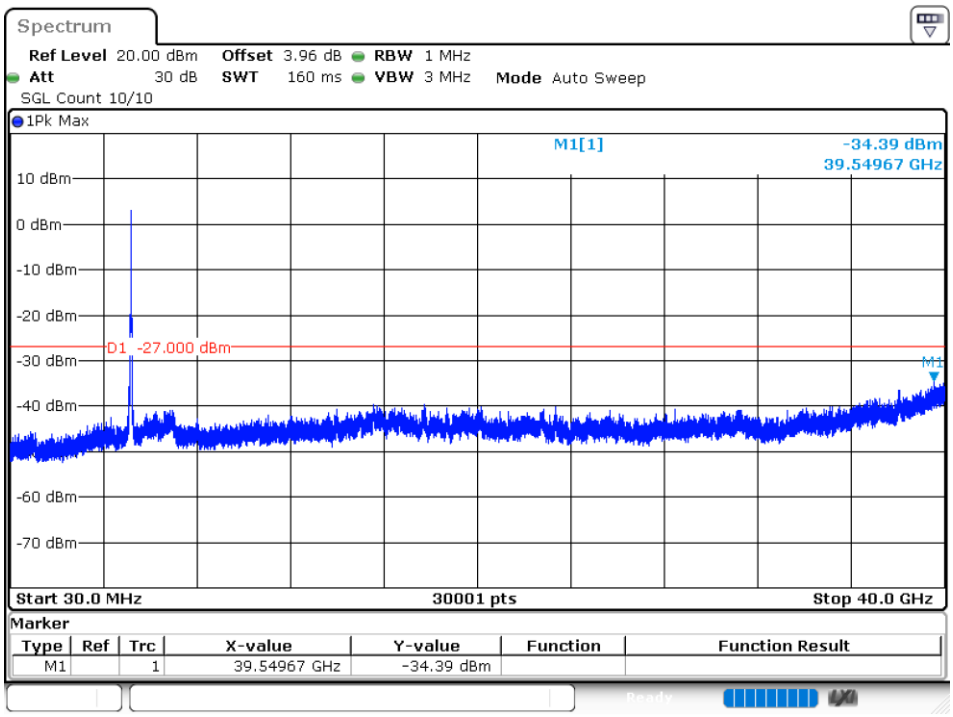
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



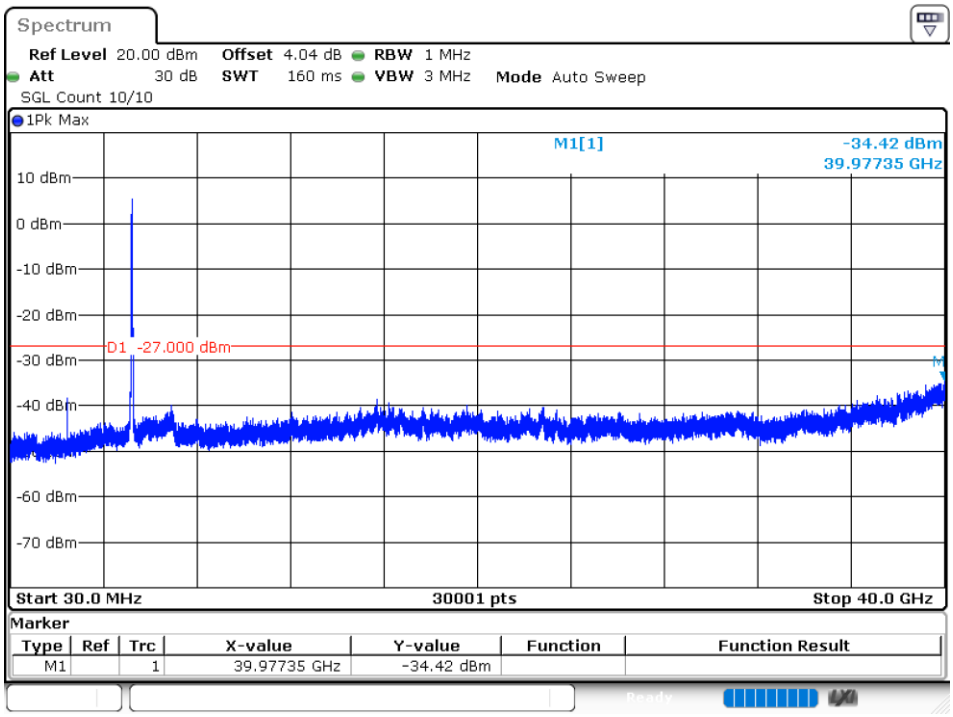
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



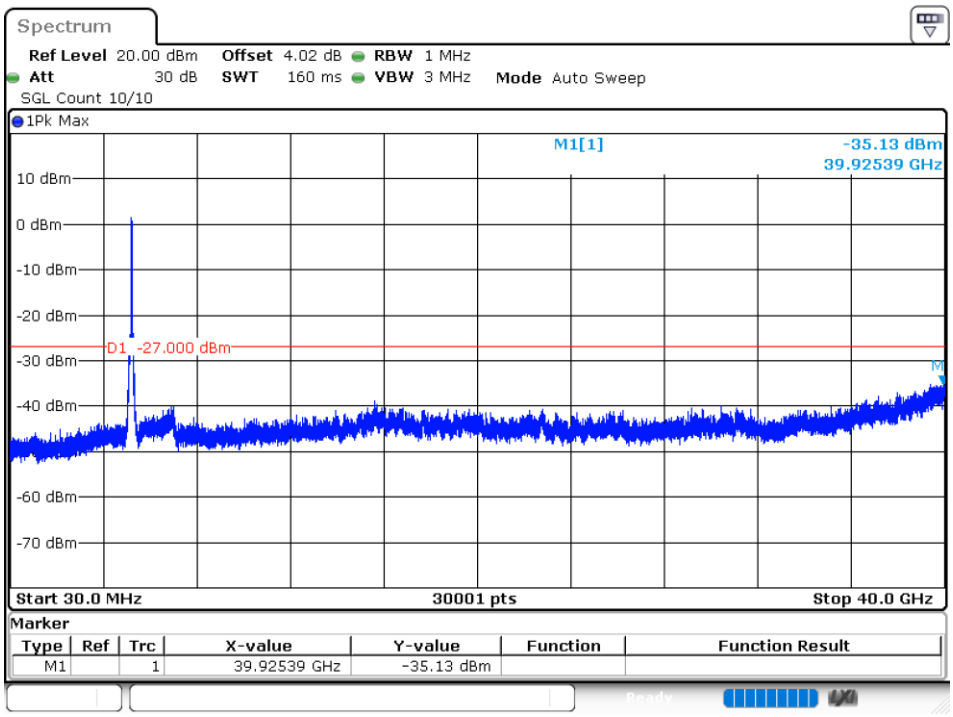
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission

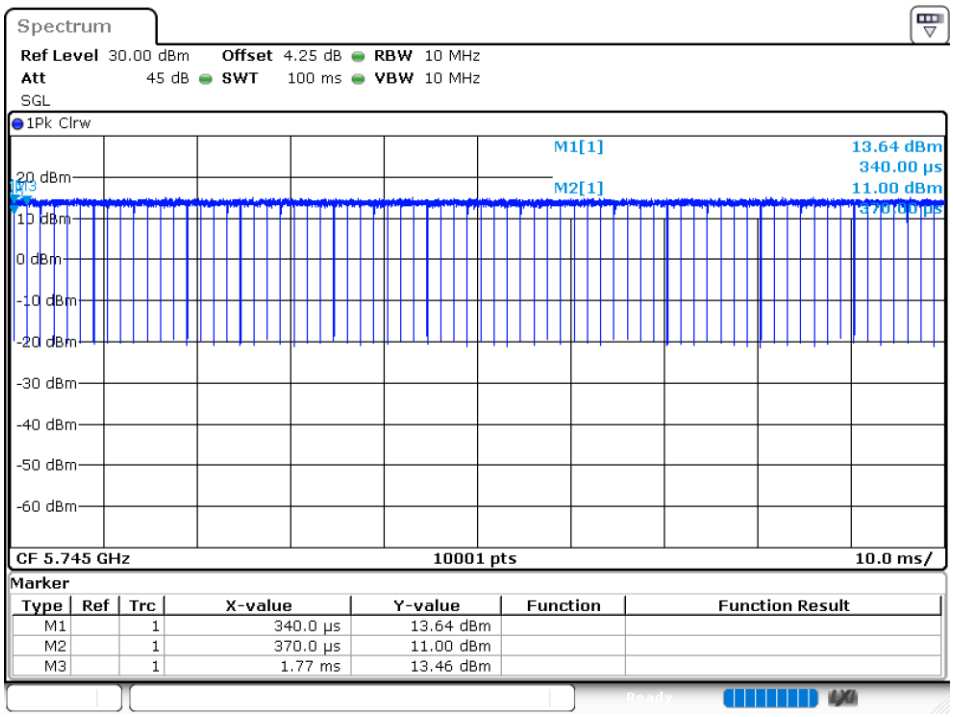


WIFI 5.8G:

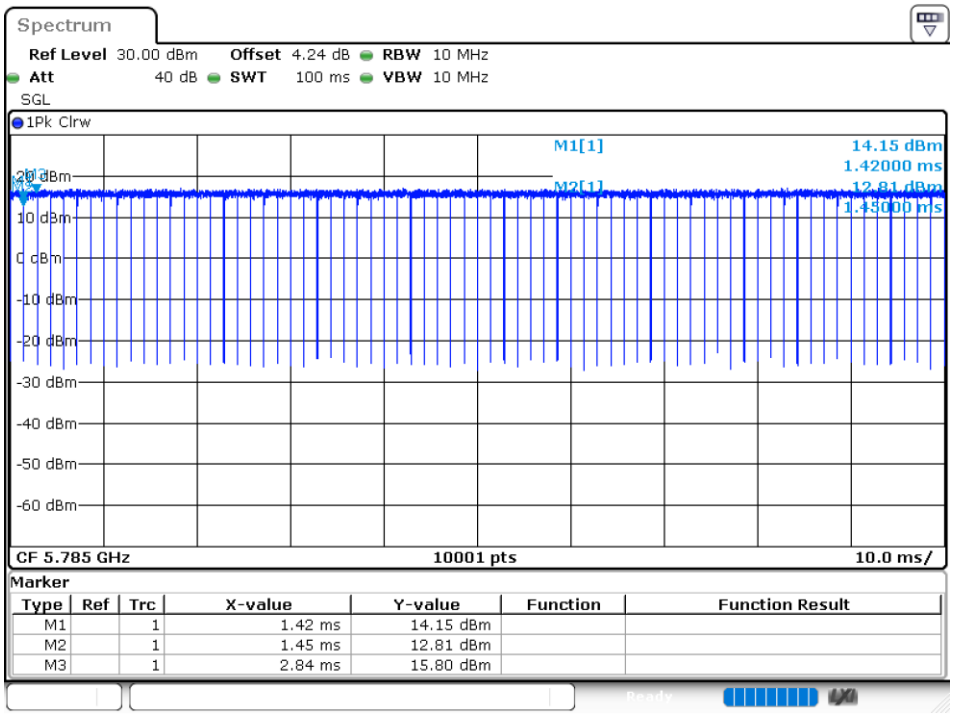
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	98.2	0.08	0.71
NVNT	a	5785	Ant1	98.18	0.08	0.72
NVNT	a	5825	Ant1	99.33	0.03	0.71
NVNT	n20	5745	Ant1	98.07	0.08	0.77
NVNT	n20	5785	Ant1	98.06	0.09	0.77
NVNT	n20	5825	Ant1	99.06	0.04	0.38
NVNT	n40	5755	Ant1	97.93	0.09	1.54
NVNT	n40	5795	Ant1	98.03	0.09	0.75
NVNT	ac20	5745	Ant1	98.04	0.09	0.76
NVNT	ac20	5785	Ant1	98.1	0.08	0.76
NVNT	ac20	5825	Ant1	98.09	0.08	0.76
NVNT	ac40	5755	Ant1	96.36	0.16	1.54
NVNT	ac40	5795	Ant1	96.37	0.16	1.54
NVNT	ac80	5775	Ant1	93.15	0.31	3.03

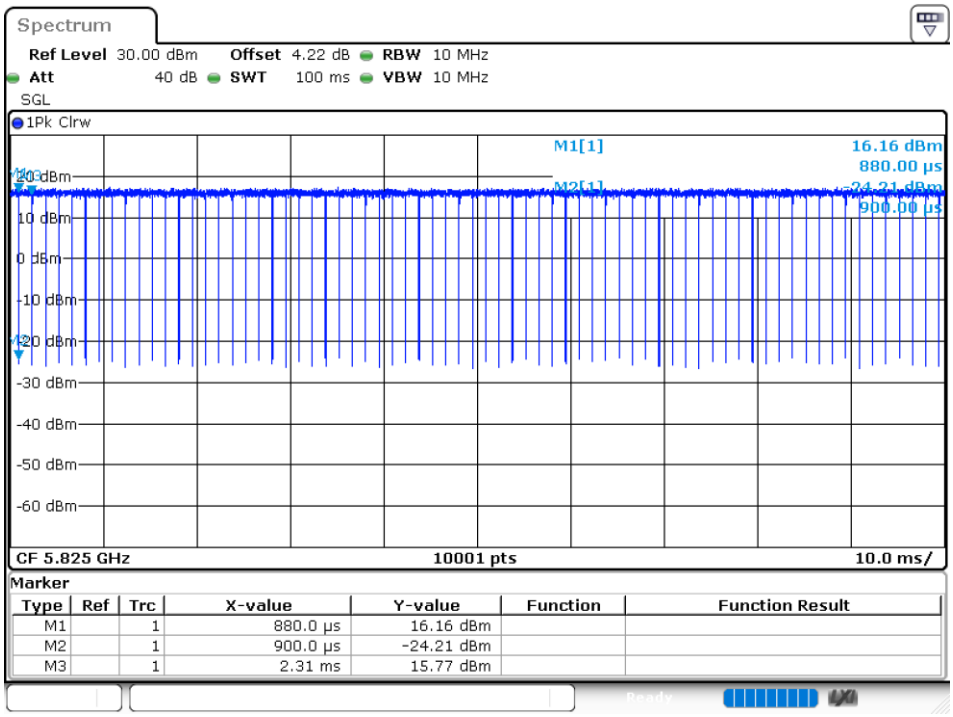
Test Graphs
Duty Cycle NVNT a 5745MHz Ant1



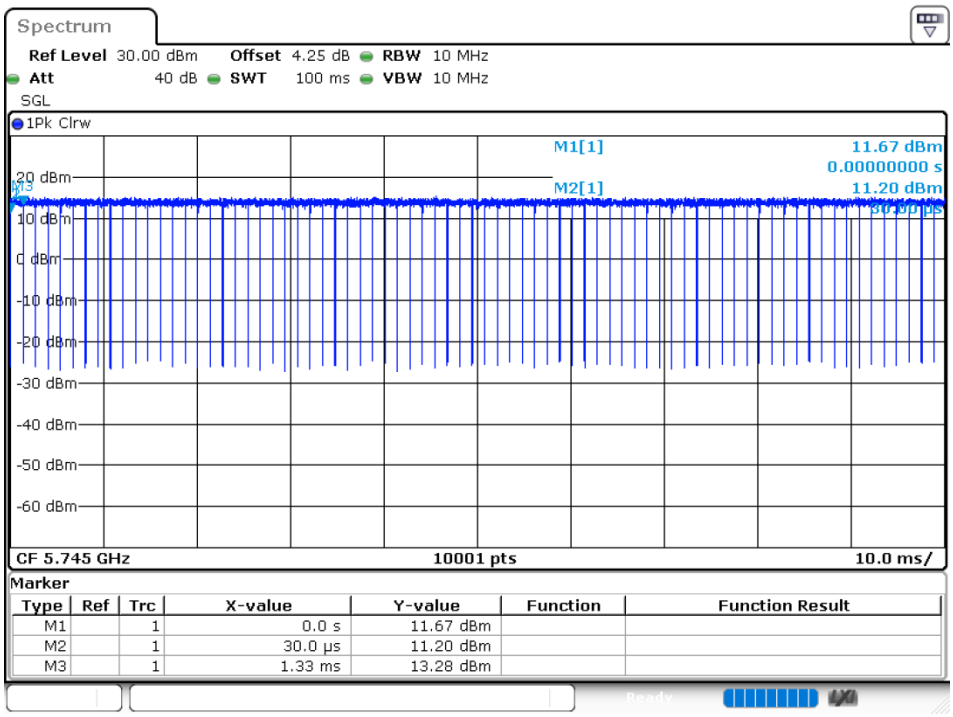
Duty Cycle NVNT a 5785MHz Ant1



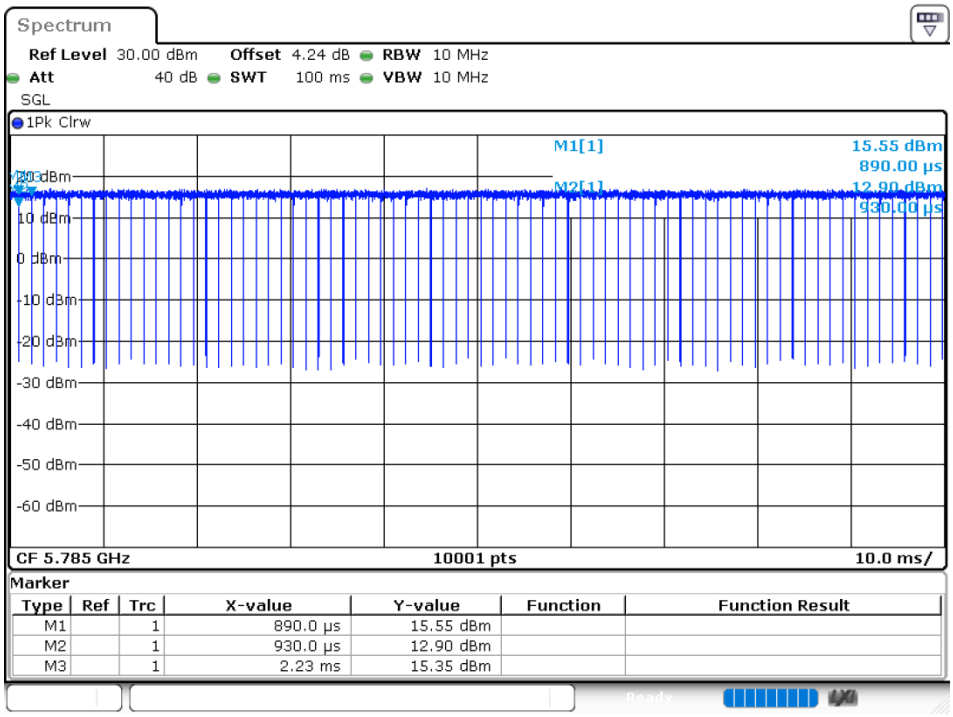
Duty Cycle NVNT a 5825MHz Ant1



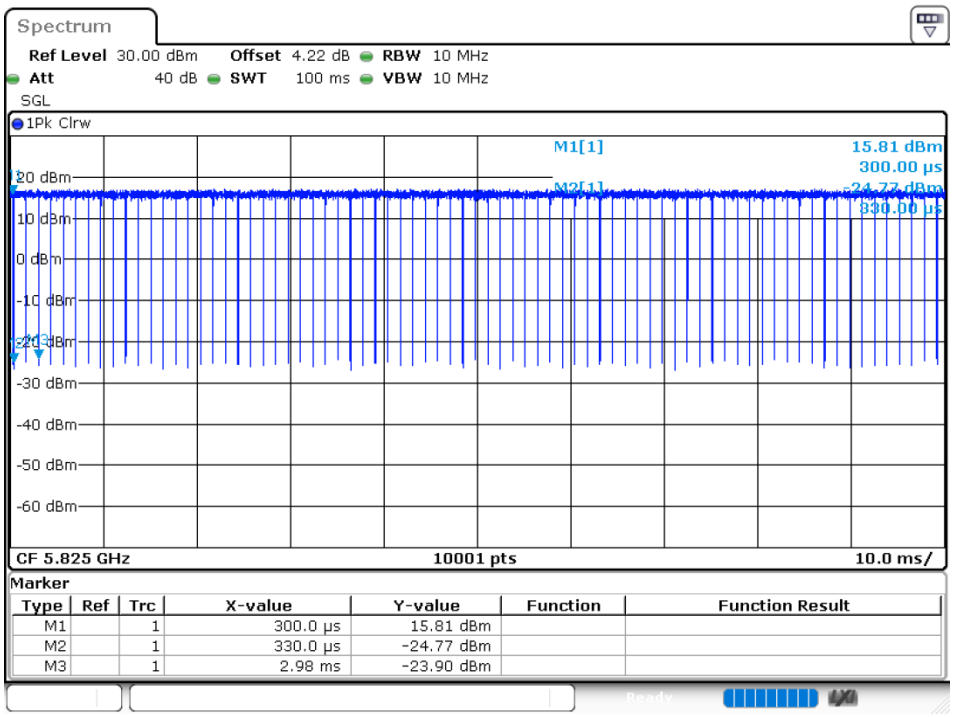
Duty Cycle NVNT n20 5745MHz Ant1



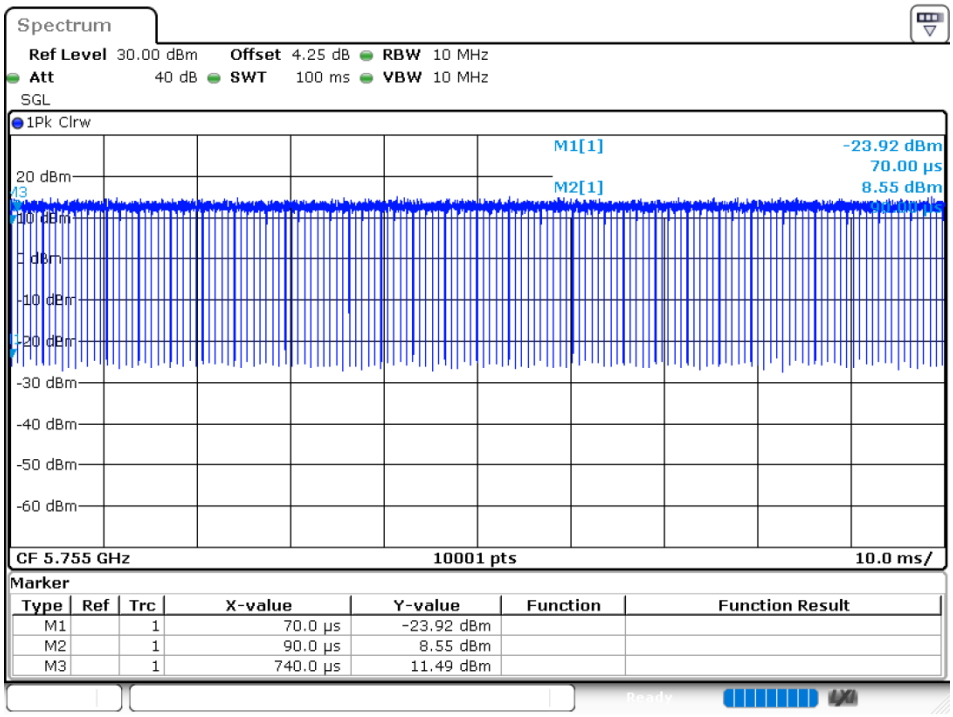
Duty Cycle NVNT n20 5785MHz Ant1



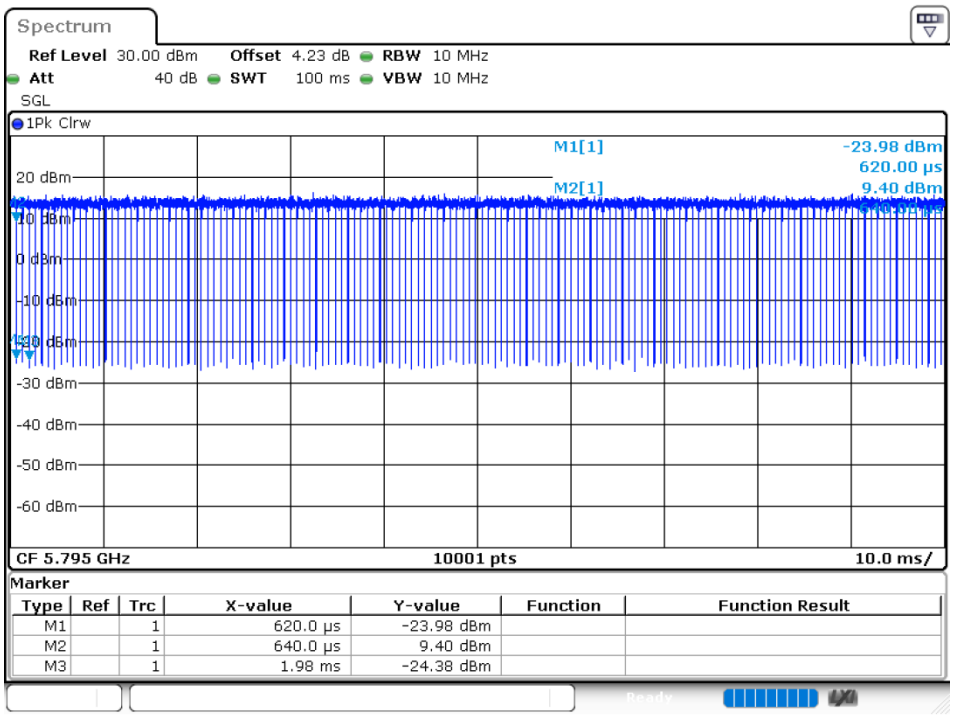
Duty Cycle NVNT n20 5825MHz Ant1



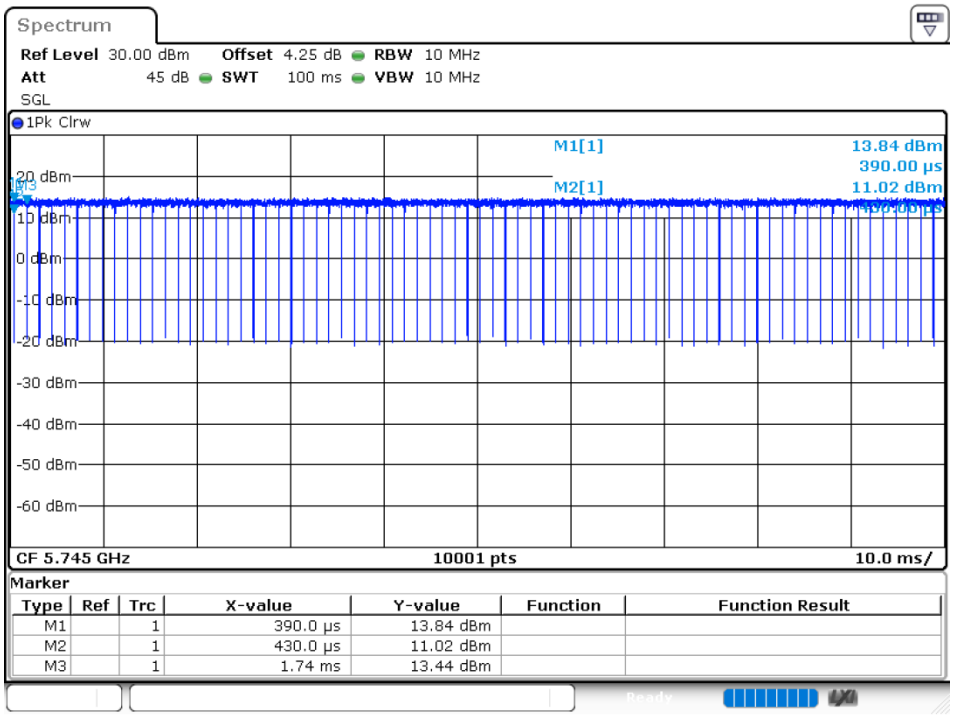
Duty Cycle NVNT n40 5755MHz Ant1



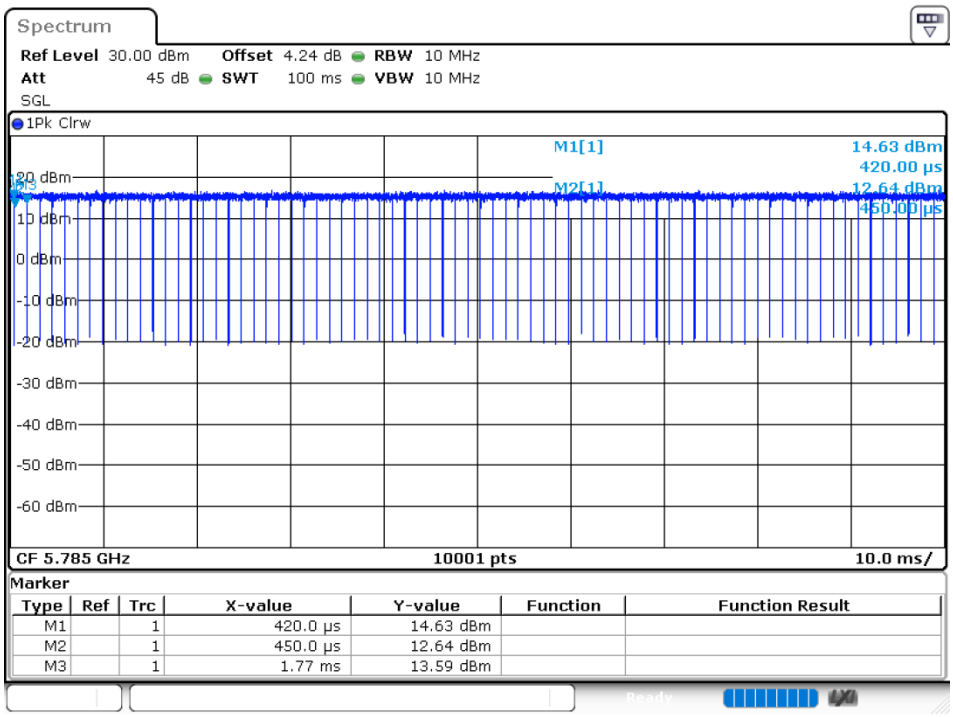
Duty Cycle NVNT n40 5795MHz Ant1



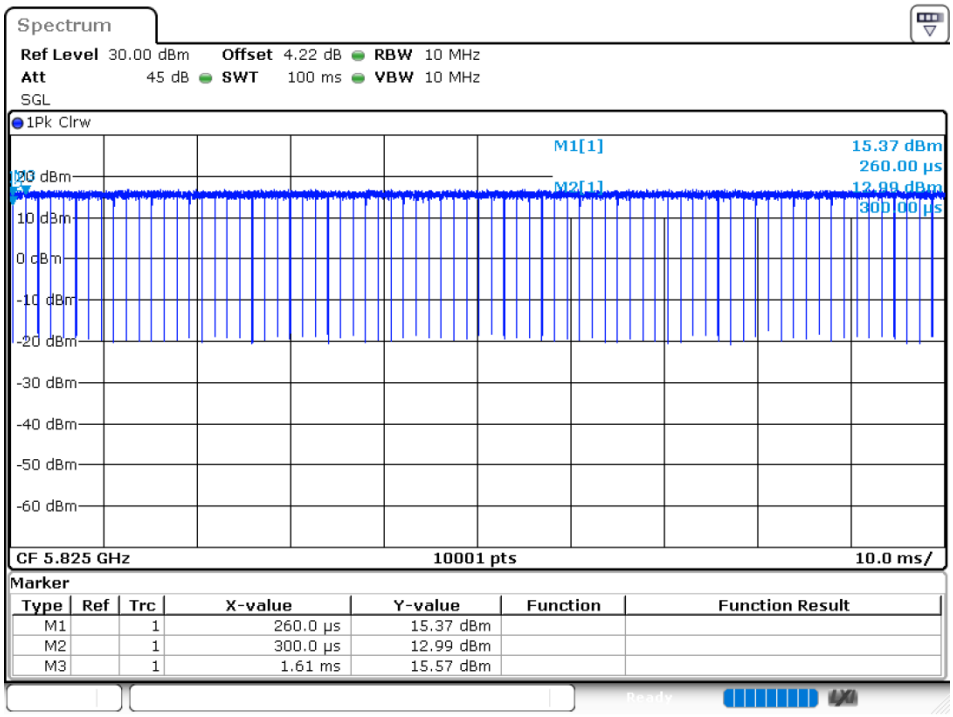
Duty Cycle NVNT ac20 5745MHz Ant1



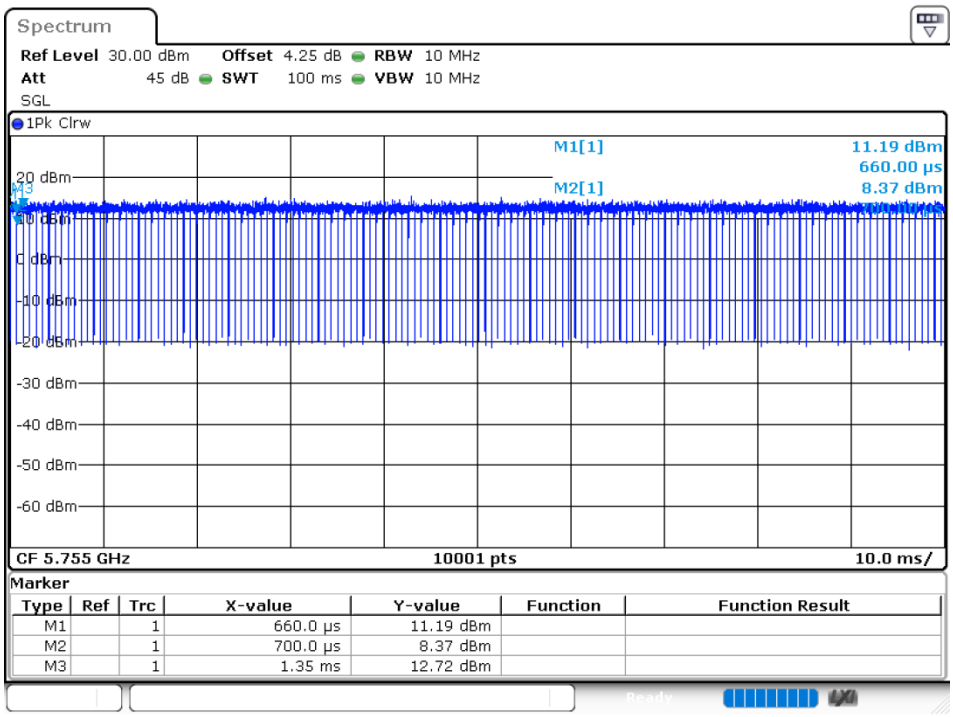
Duty Cycle NVNT ac20 5785MHz Ant1



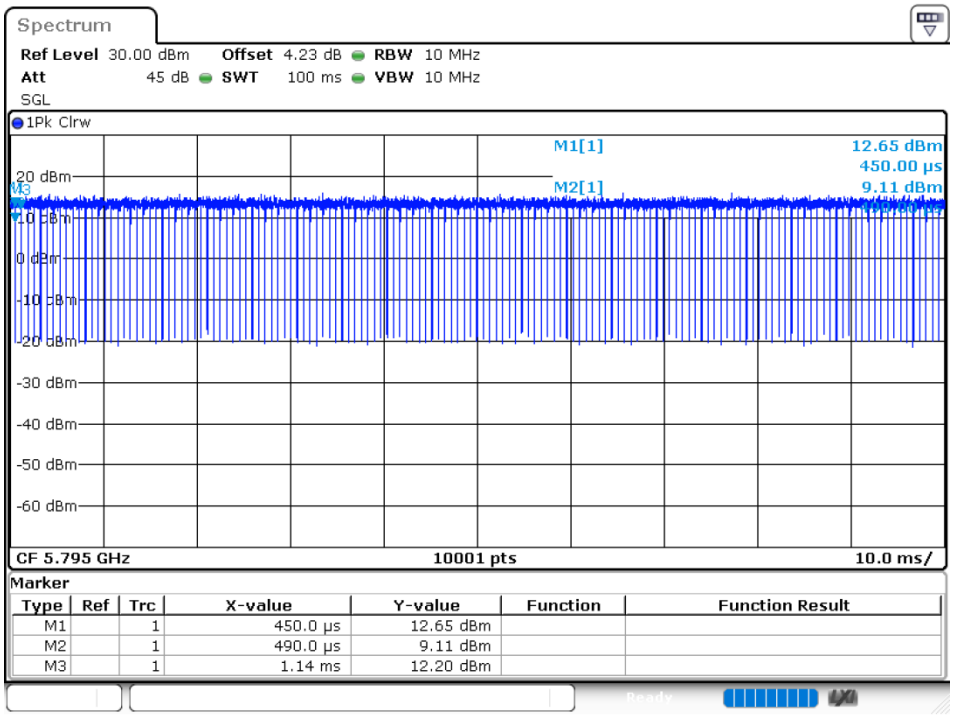
Duty Cycle NVNT ac20 5825MHz Ant1



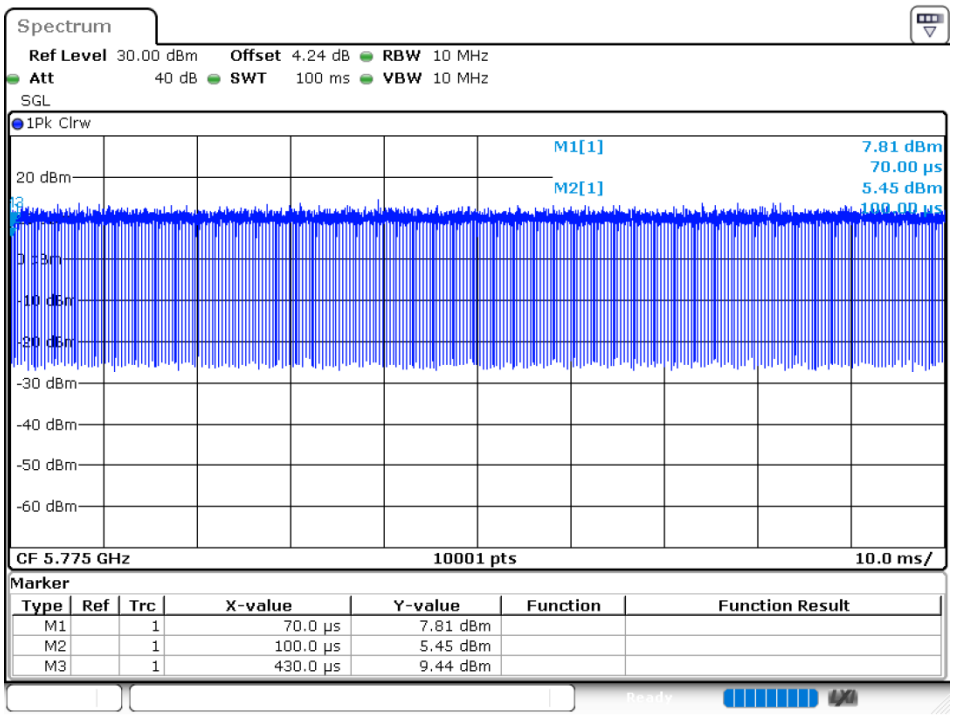
Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



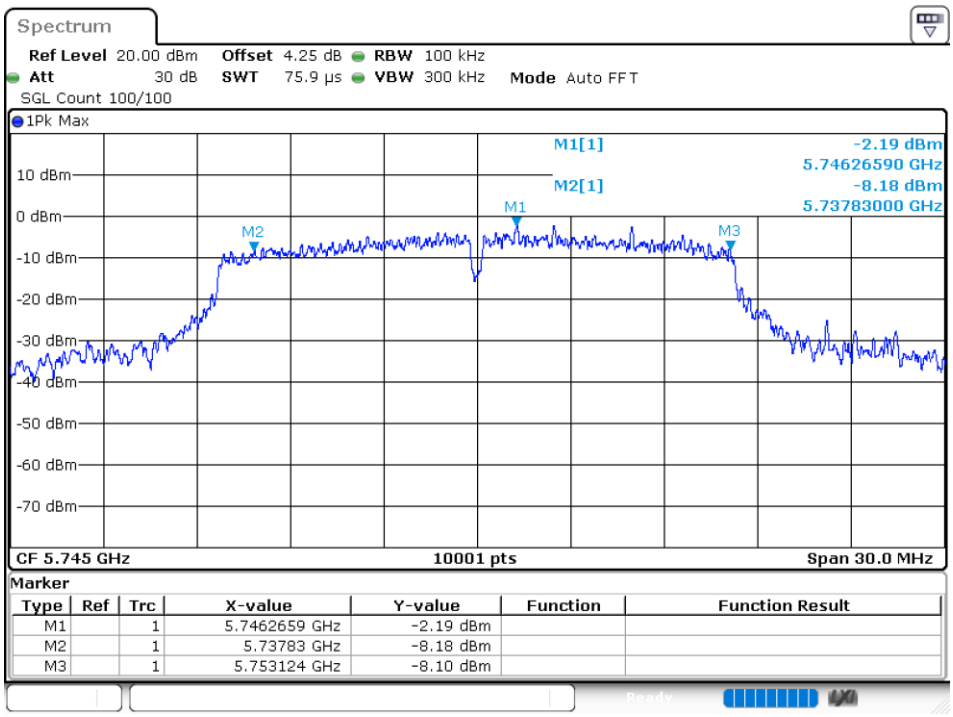
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	10.88	30	Pass
NVNT	a	5785	Ant1	11.38	30	Pass
NVNT	a	5825	Ant1	11.76	30	Pass
NVNT	n20	5745	Ant1	10.69	30	Pass
NVNT	n20	5785	Ant1	11.27	30	Pass
NVNT	n20	5825	Ant1	11.86	30	Pass
NVNT	n40	5755	Ant1	10.53	30	Pass
NVNT	n40	5795	Ant1	11.44	30	Pass
NVNT	ac20	5745	Ant1	11.4	30	Pass
NVNT	ac20	5785	Ant1	11.29	30	Pass
NVNT	ac20	5825	Ant1	12.13	30	Pass
NVNT	ac40	5755	Ant1	10.78	30	Pass
NVNT	ac40	5795	Ant1	11.63	30	Pass
NVNT	ac80	5775	Ant1	10.91	30	Pass

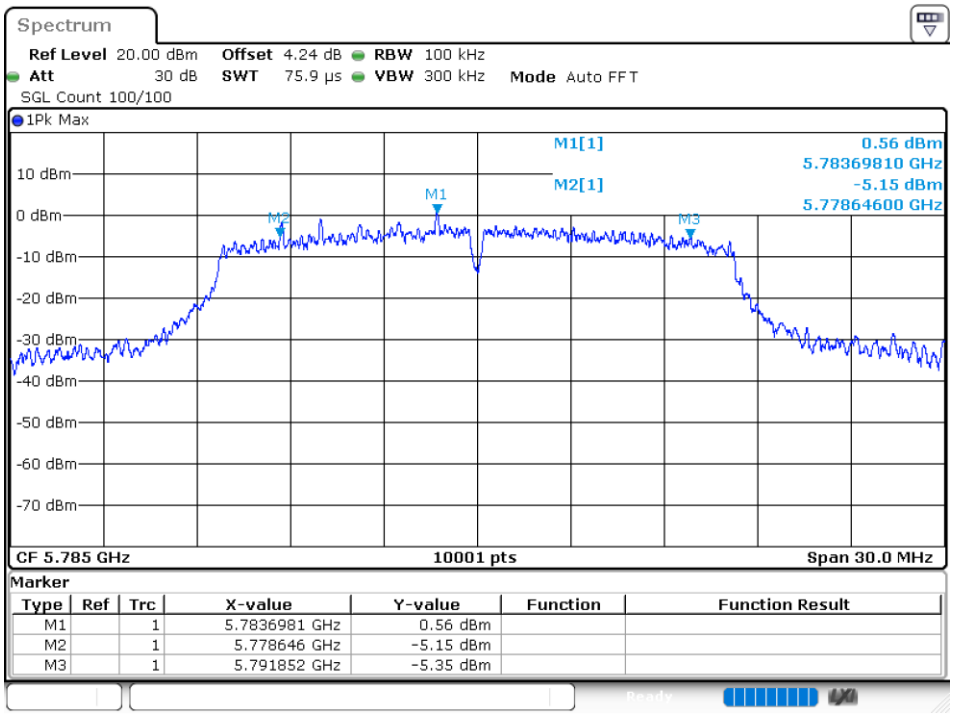
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.294	0.5	Pass
NVNT	a	5785	Ant1	13.206	0.5	Pass
NVNT	a	5825	Ant1	16.32	0.5	Pass
NVNT	n20	5745	Ant1	16.911	0.5	Pass
NVNT	n20	5785	Ant1	12.633	0.5	Pass
NVNT	n20	5825	Ant1	17.562	0.5	Pass
NVNT	n40	5755	Ant1	30.114	0.5	Pass
NVNT	n40	5795	Ant1	30.054	0.5	Pass
NVNT	ac20	5745	Ant1	13.851	0.5	Pass
NVNT	ac20	5785	Ant1	17.523	0.5	Pass
NVNT	ac20	5825	Ant1	12.636	0.5	Pass
NVNT	ac40	5755	Ant1	27.636	0.5	Pass
NVNT	ac40	5795	Ant1	35.022	0.5	Pass
NVNT	ac80	5775	Ant1	73.824	0.5	Pass

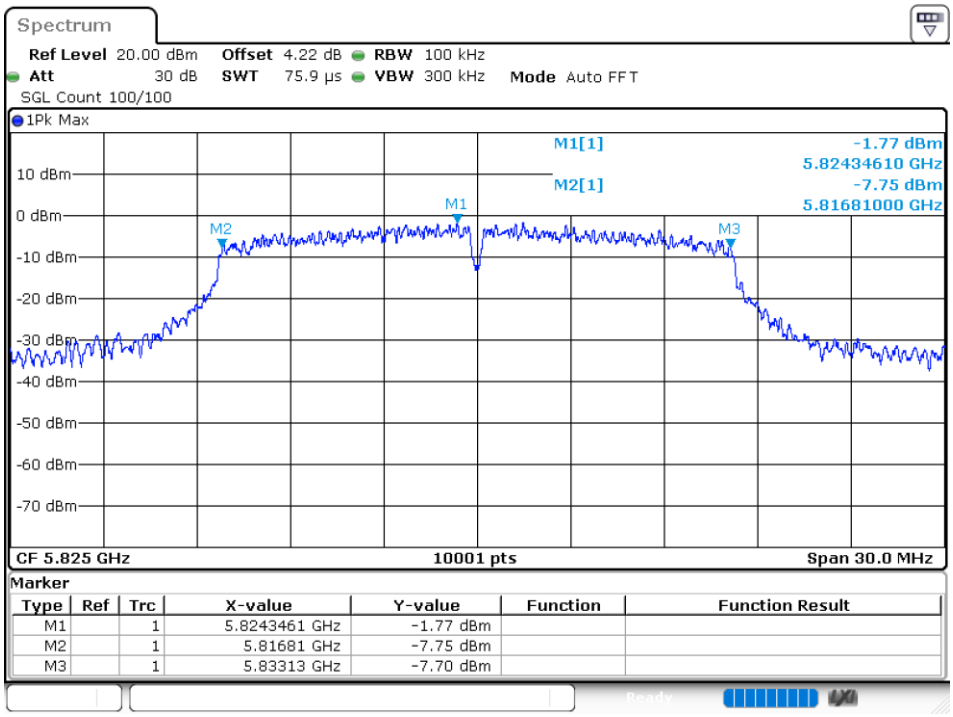
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1



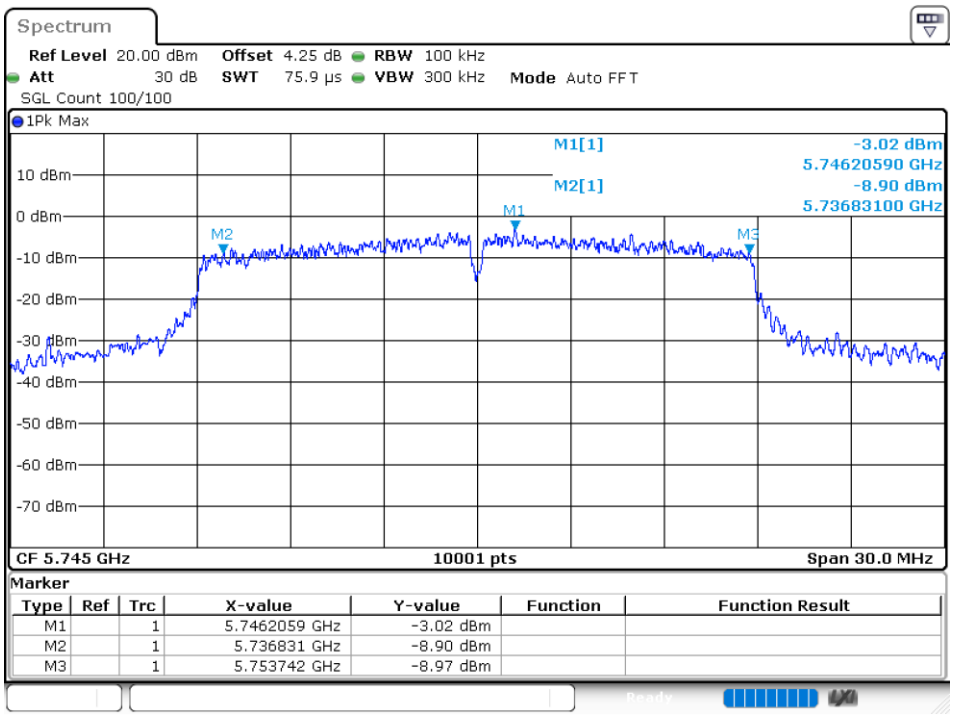
-6dB Bandwidth NVNT a 5785MHz Ant1



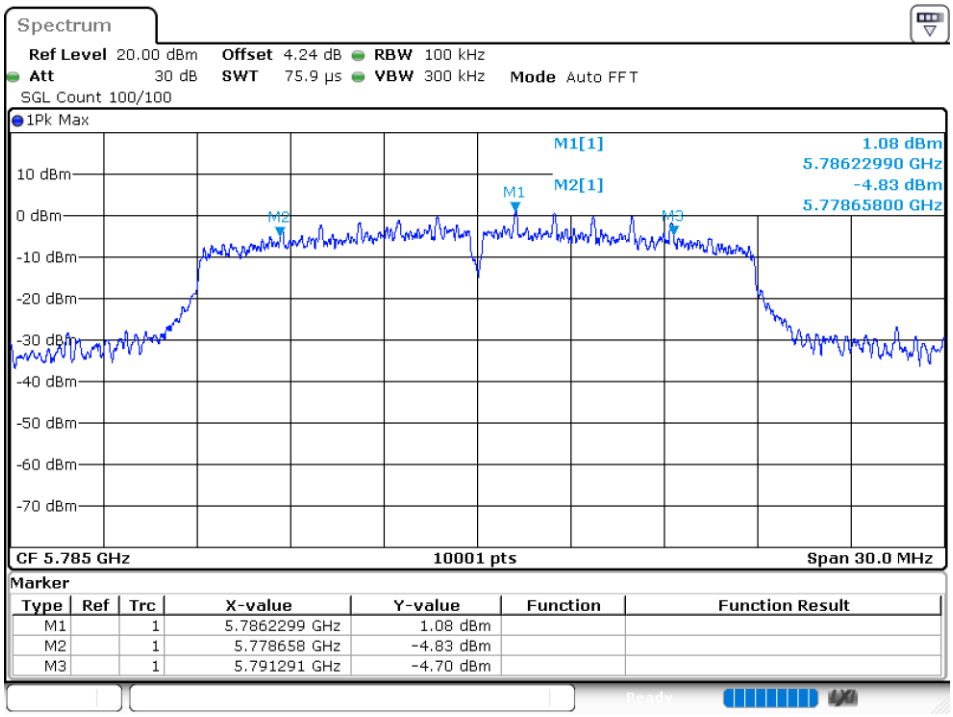
-6dB Bandwidth NVNT a 5825MHz Ant1



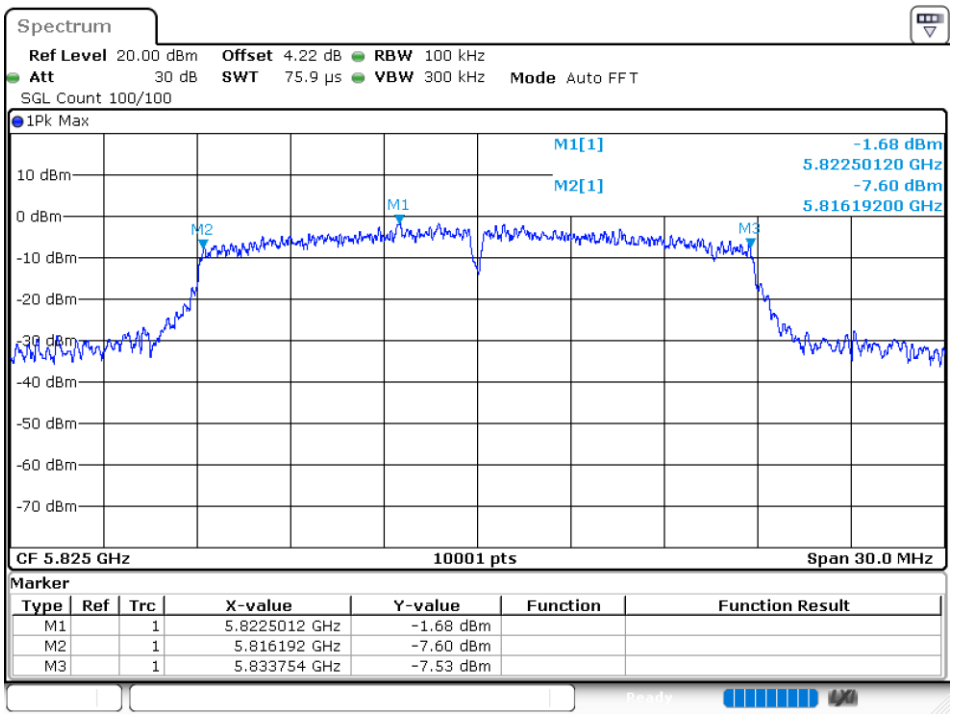
-6dB Bandwidth NVNT n20 5745MHz Ant1



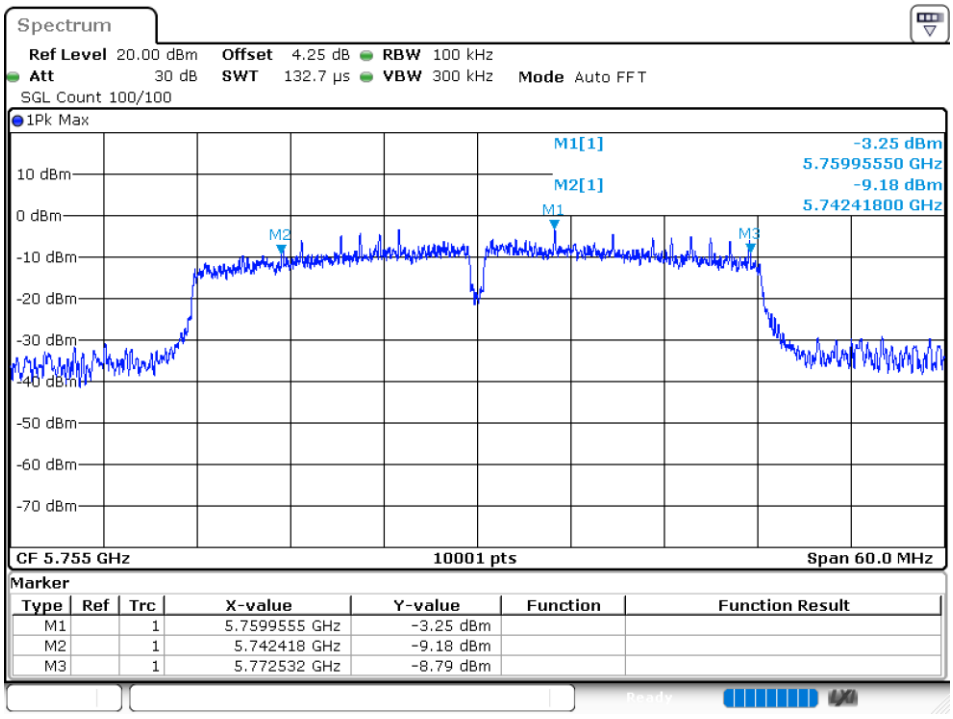
-6dB Bandwidth NVNT n20 5785MHz Ant1



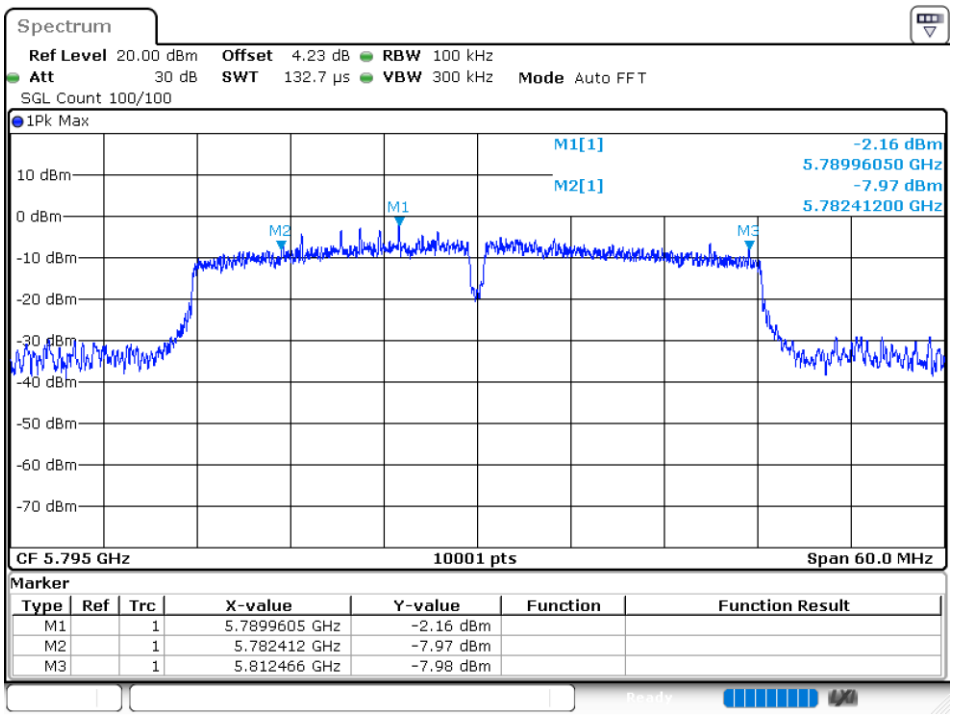
-6dB Bandwidth NVNT n20 5825MHz Ant1



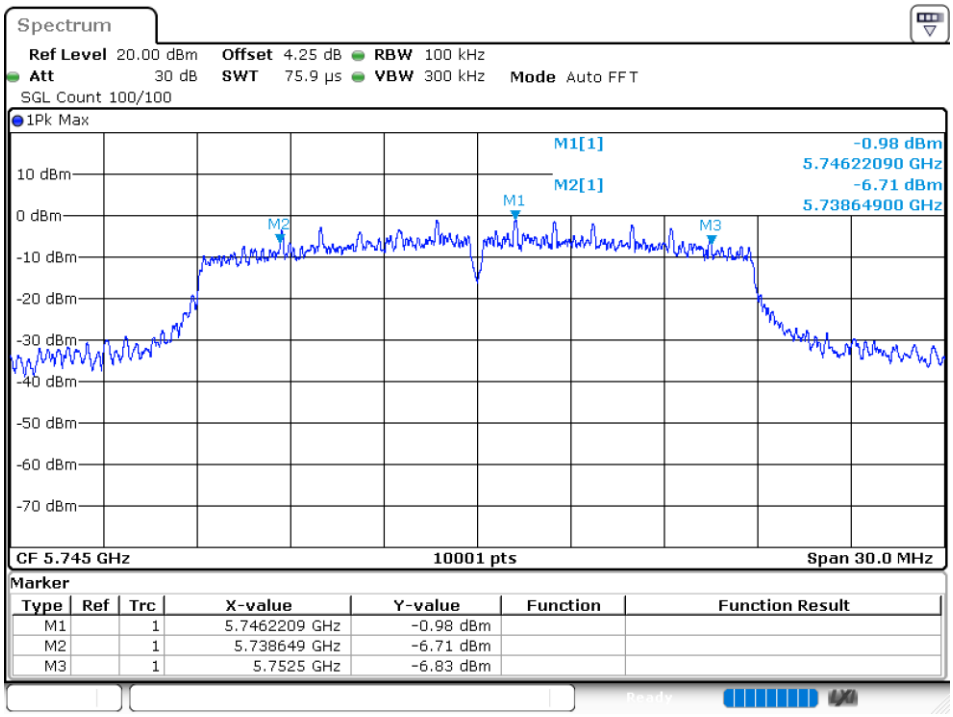
-6dB Bandwidth NVNT n40 5755MHz Ant1



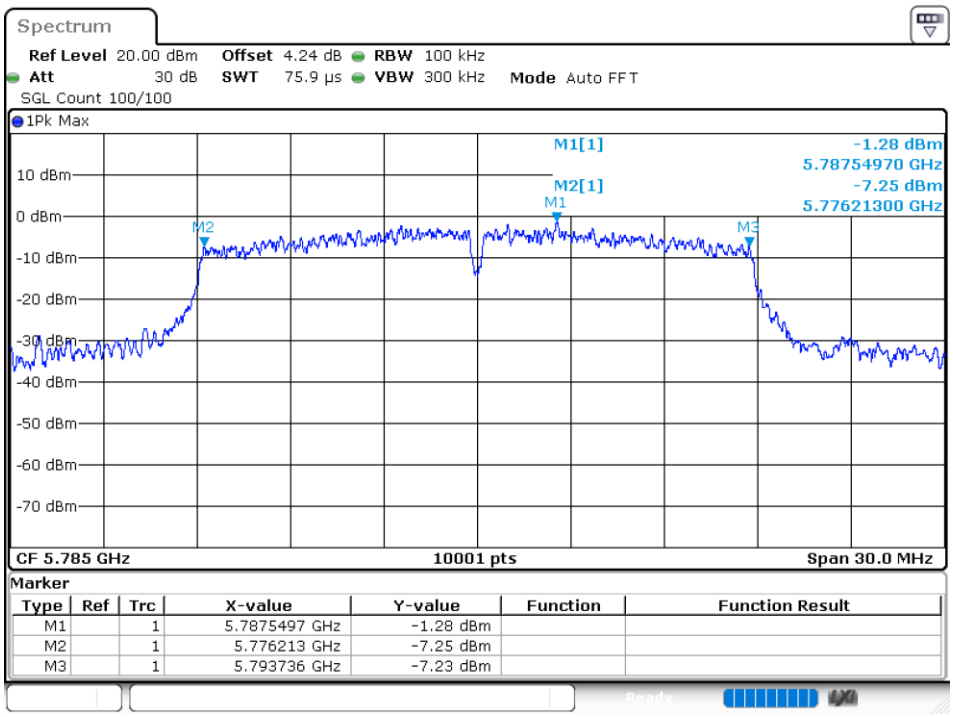
-6dB Bandwidth NVNT n40 5795MHz Ant1



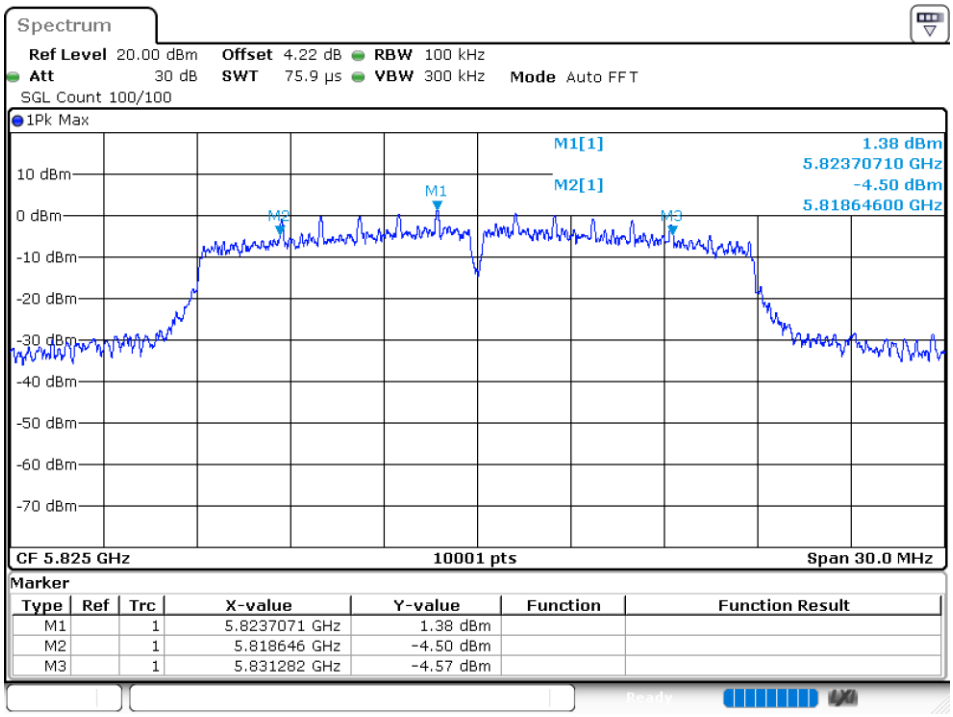
-6dB Bandwidth NVNT ac20 5745MHz Ant1



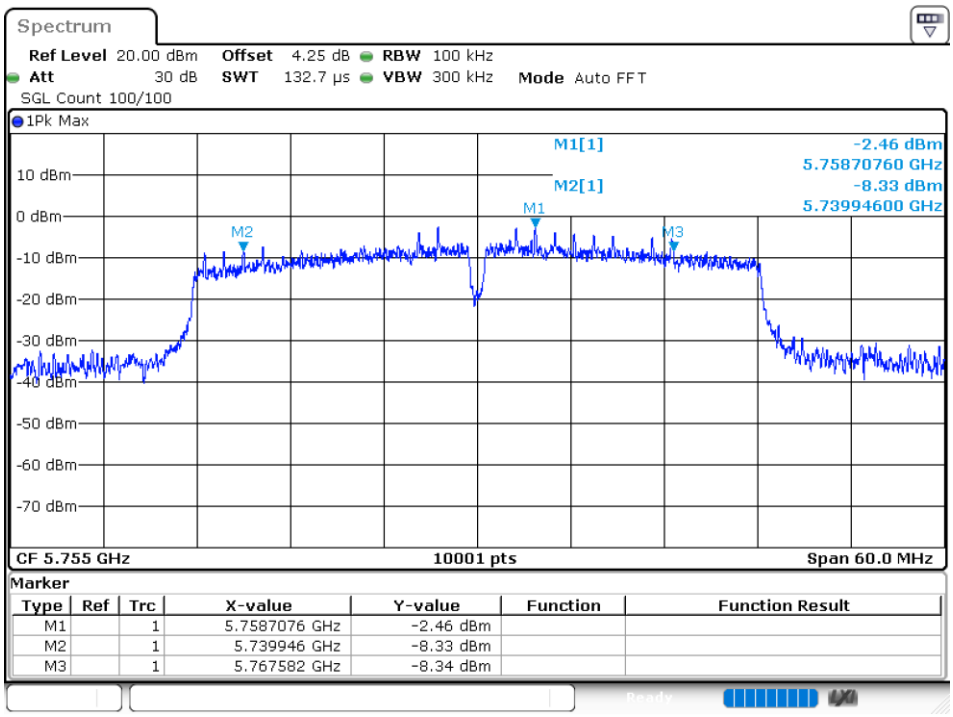
-6dB Bandwidth NVNT ac20 5785MHz Ant1



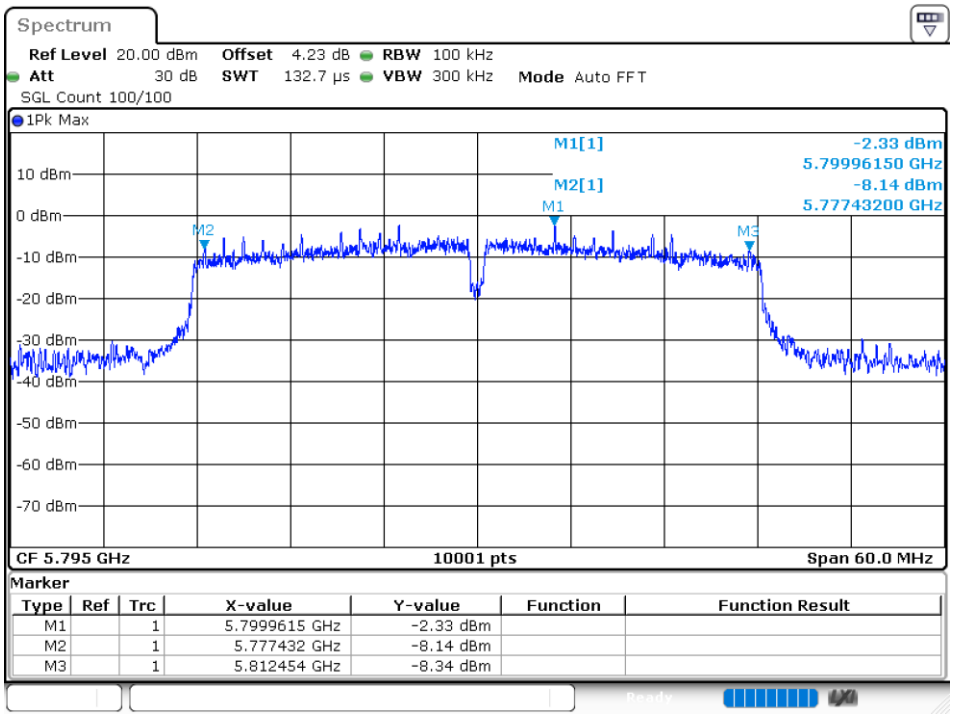
-6dB Bandwidth NVNT ac20 5825MHz Ant1



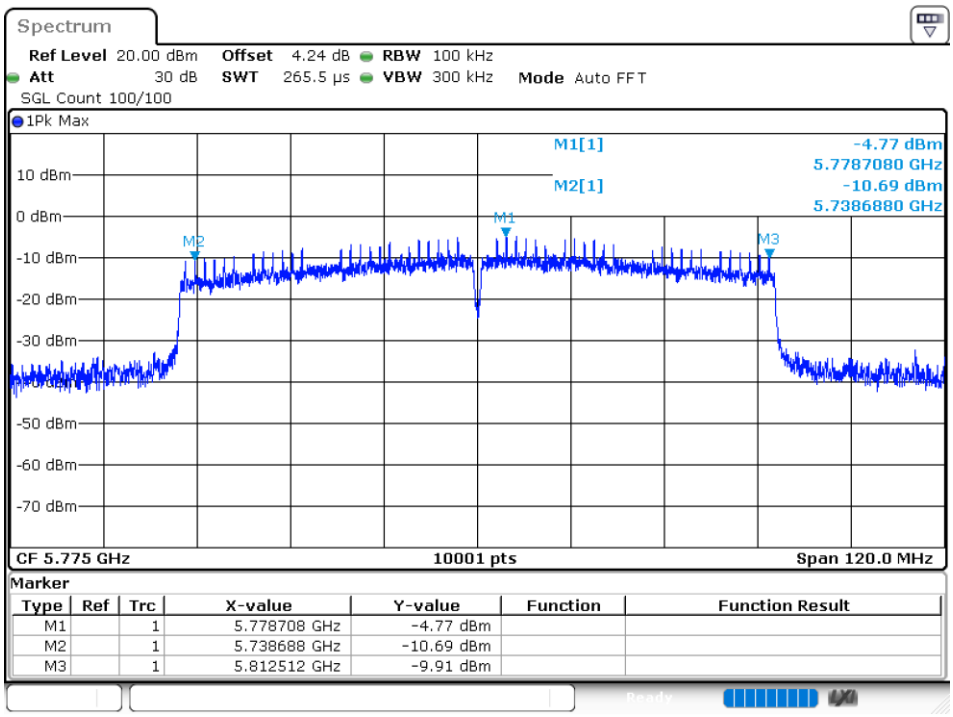
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



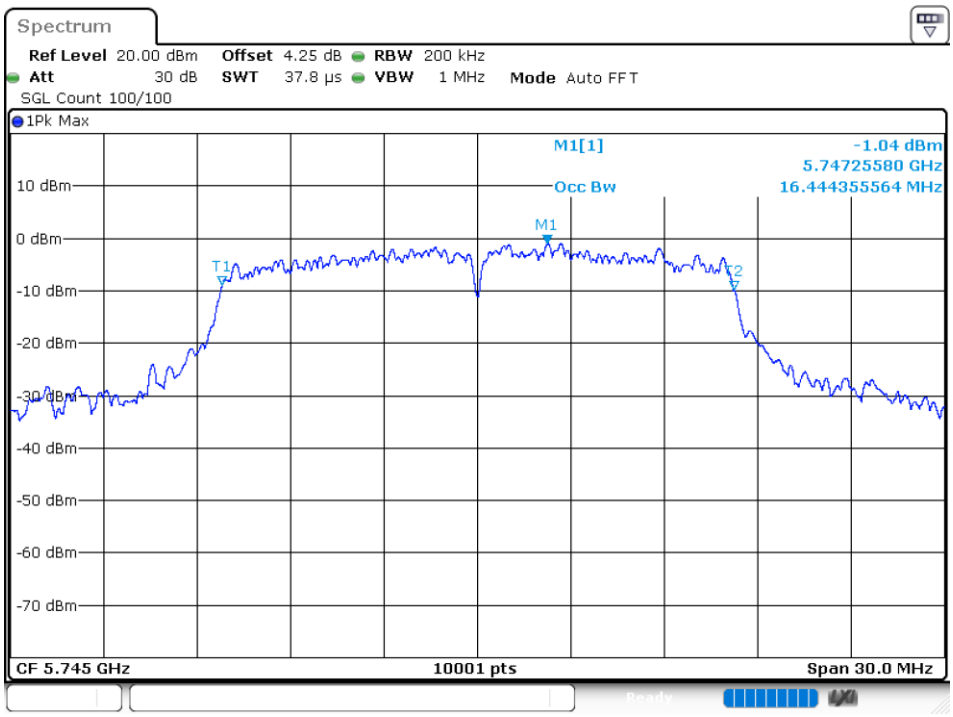
-6dB Bandwidth NVNT ac80 5775MHz Ant1



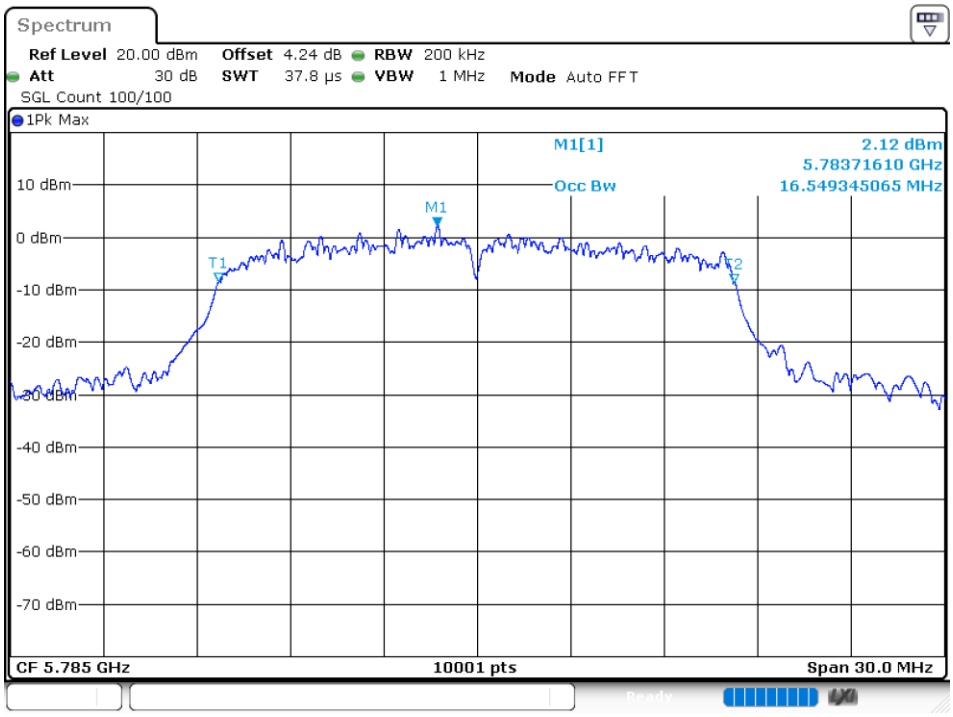
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.444
NVNT	a	5785	Ant1	16.549
NVNT	a	5825	Ant1	16.432
NVNT	n20	5745	Ant1	17.659
NVNT	n20	5785	Ant1	17.641
NVNT	n20	5825	Ant1	17.662
NVNT	n40	5755	Ant1	36.194
NVNT	n40	5795	Ant1	36.254
NVNT	ac20	5745	Ant1	17.62
NVNT	ac20	5785	Ant1	17.593
NVNT	ac20	5825	Ant1	17.611
NVNT	ac40	5755	Ant1	36.158
NVNT	ac40	5795	Ant1	36.194
NVNT	ac80	5775	Ant1	75.232

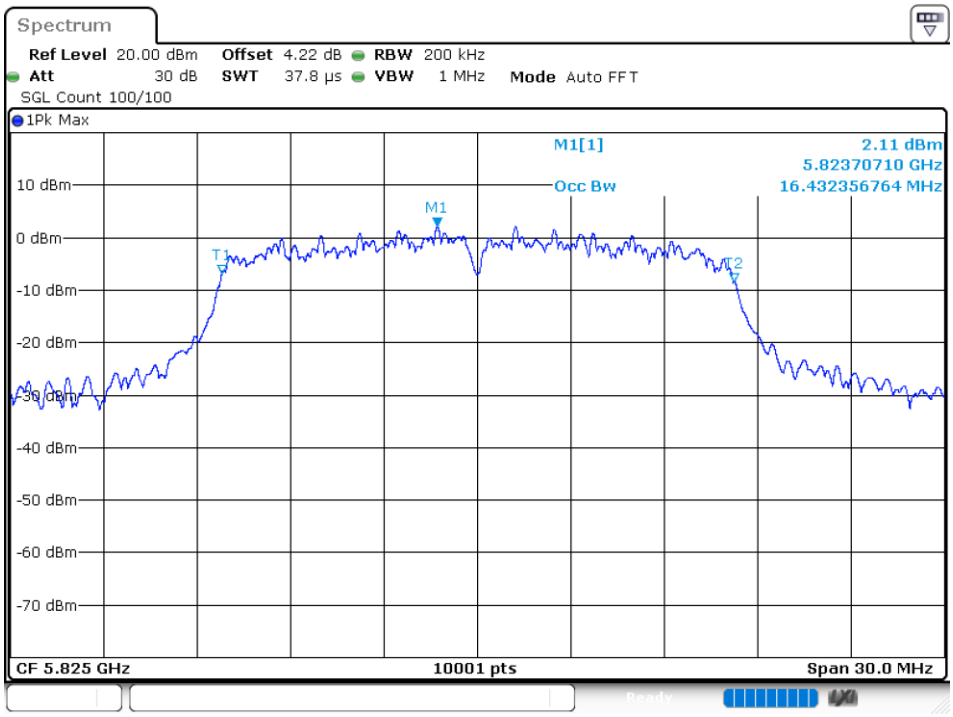
Test Graphs
OBW NVNT a 5745MHz Ant1



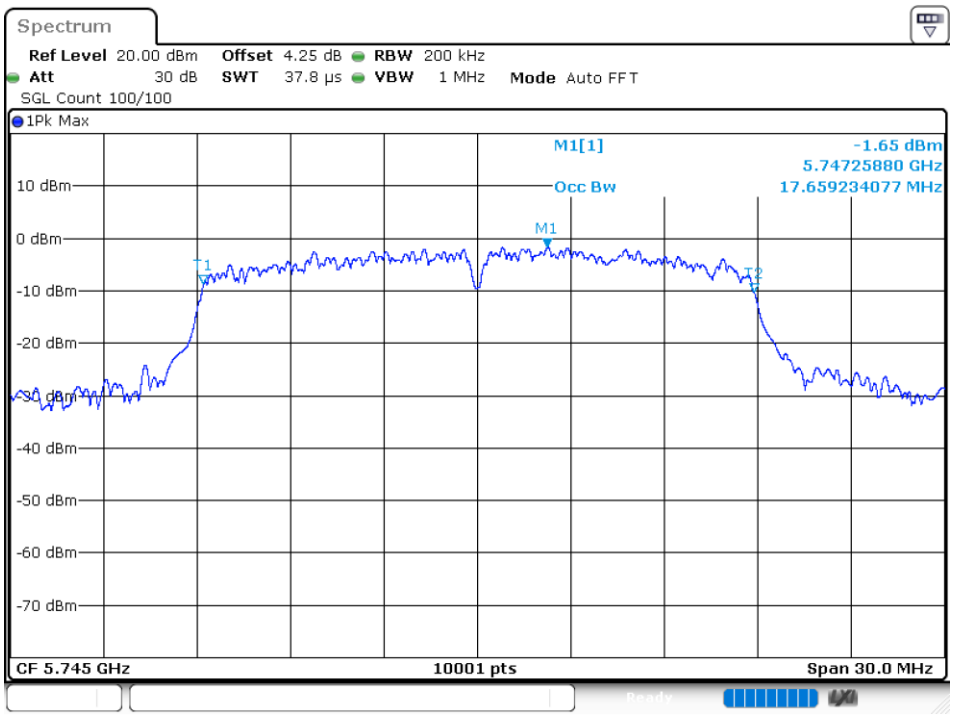
OBW NVNT a 5785MHz Ant1



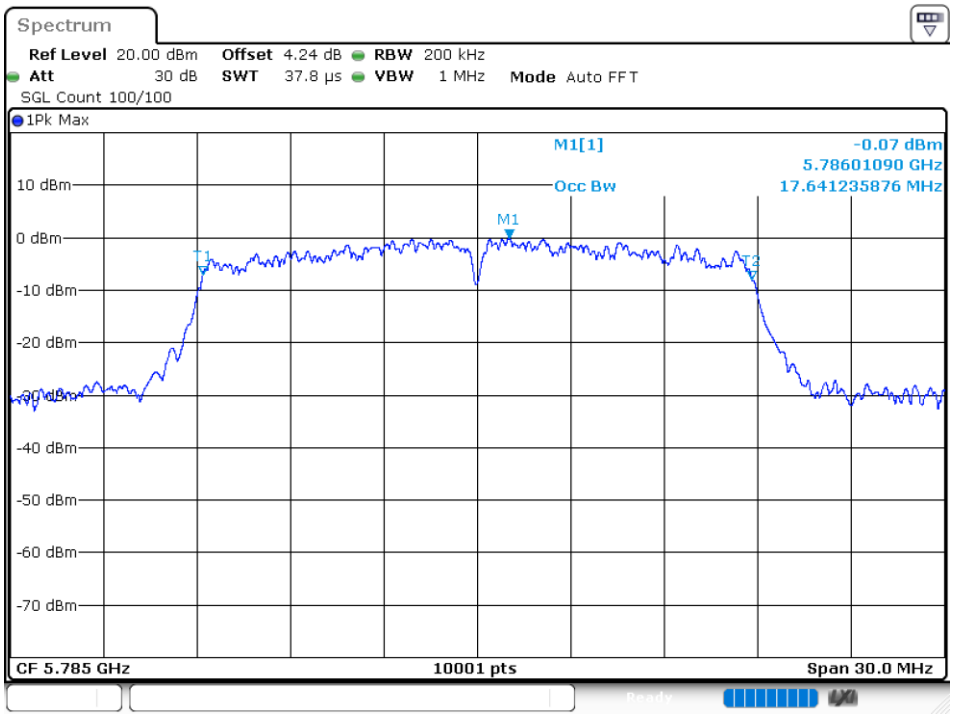
OBW NVNT a 5825MHz Ant1



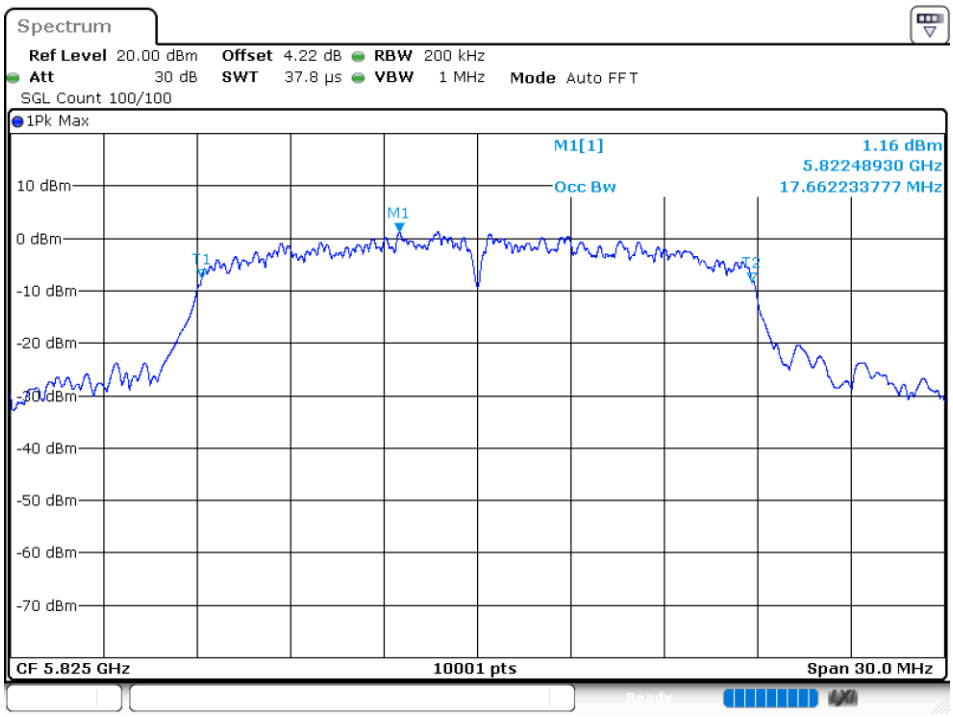
OBW NVNT n20 5745MHz Ant1



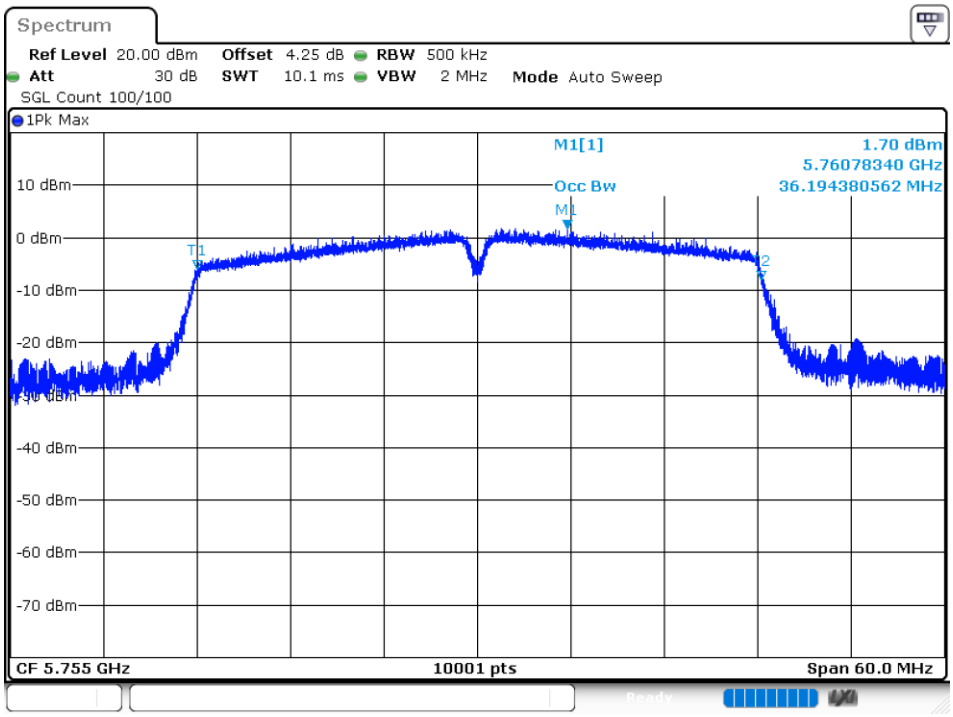
OBW NVNT n20 5785MHz Ant1



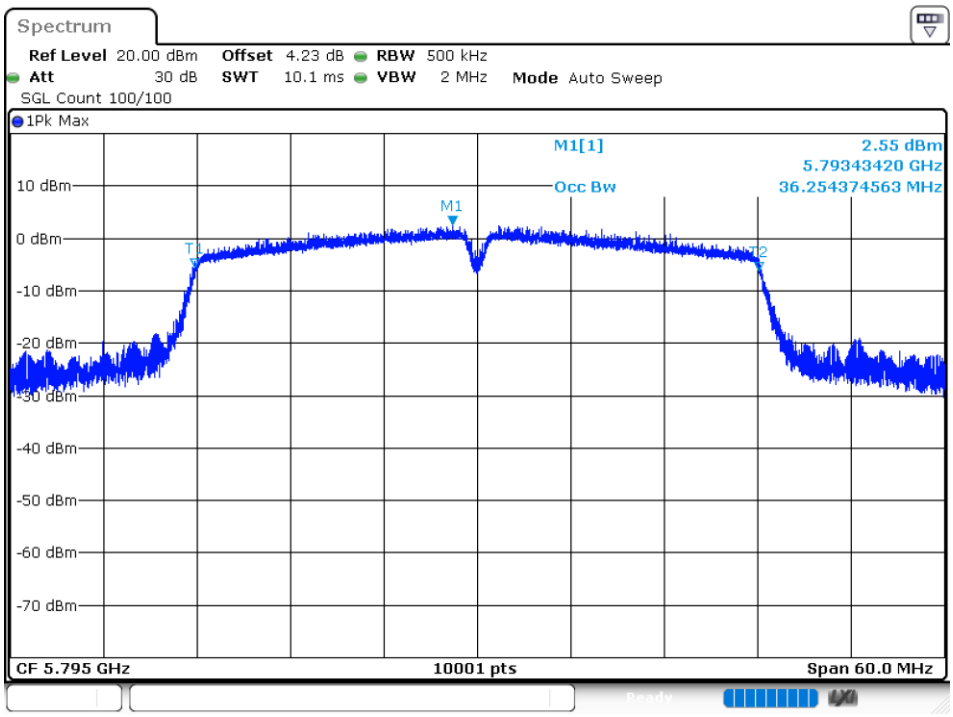
OBW NVNT n20 5825MHz Ant1



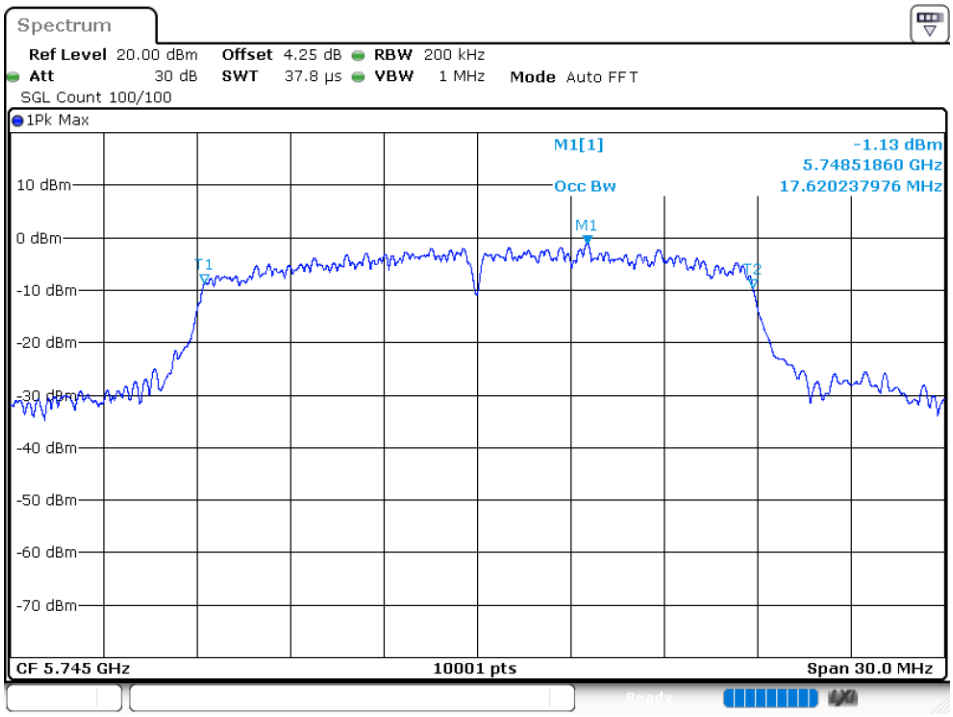
OBW NVNT n40 5755MHz Ant1



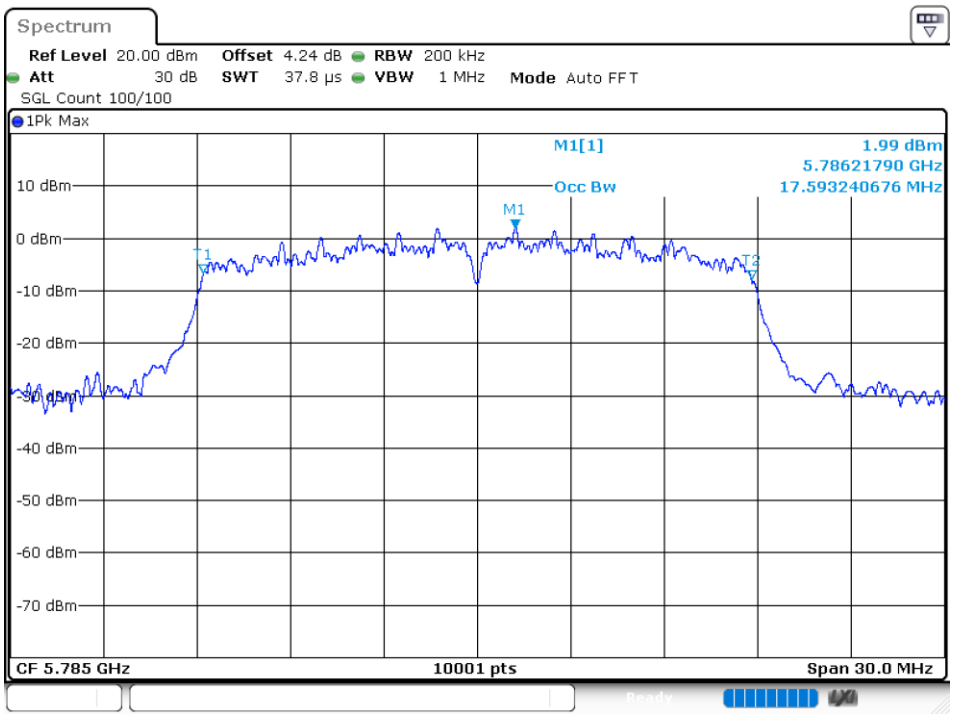
OBW NVNT n40 5795MHz Ant1



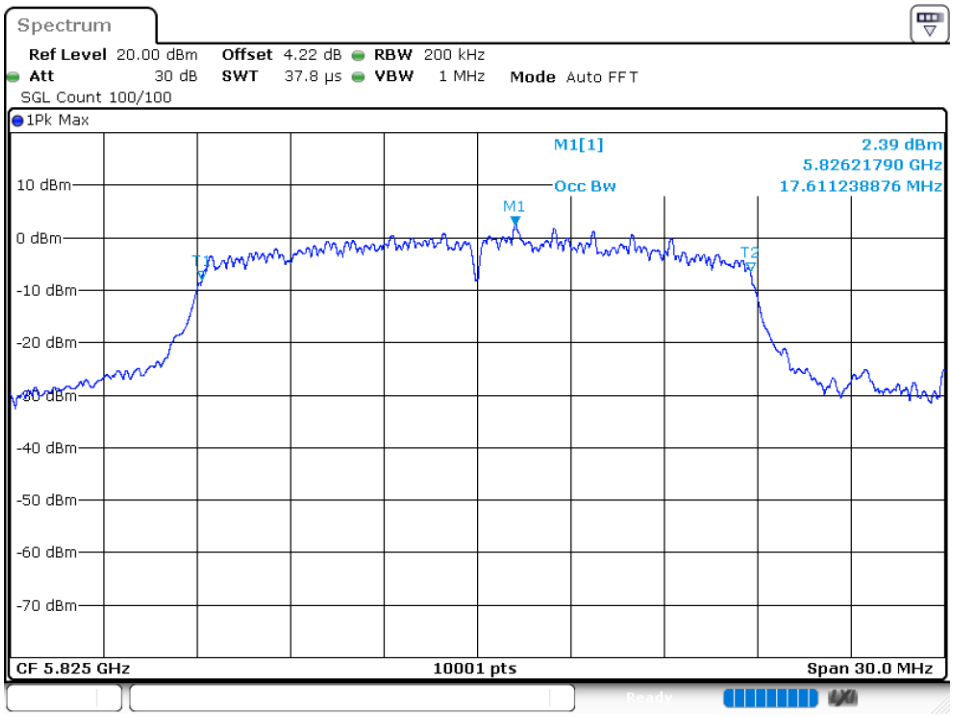
OBW NVNT ac20 5745MHz Ant1



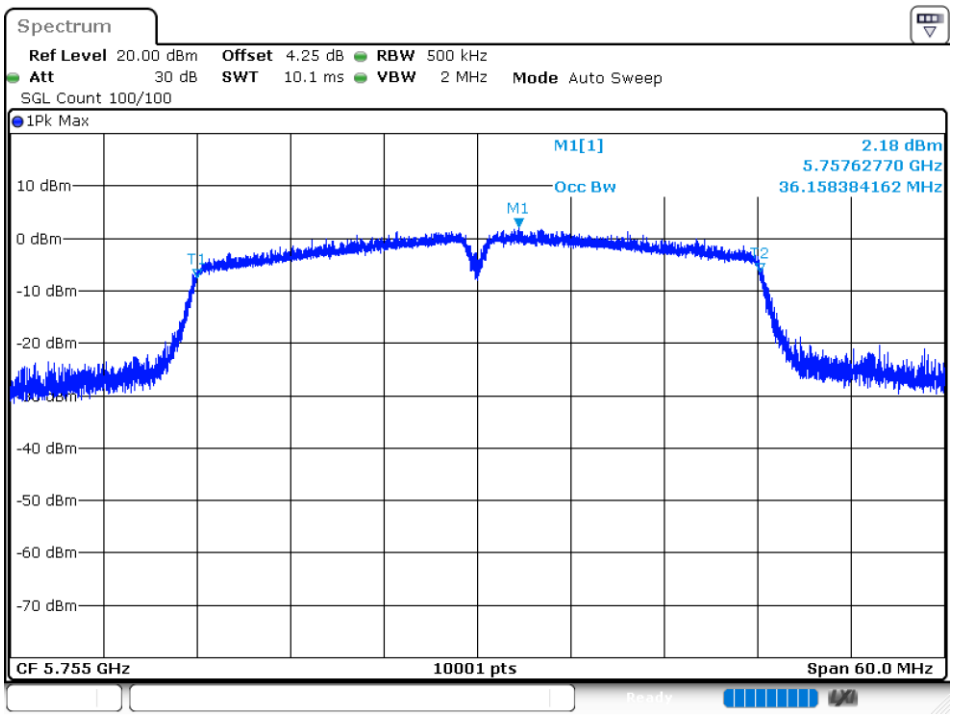
OBW NVNT ac20 5785MHz Ant1



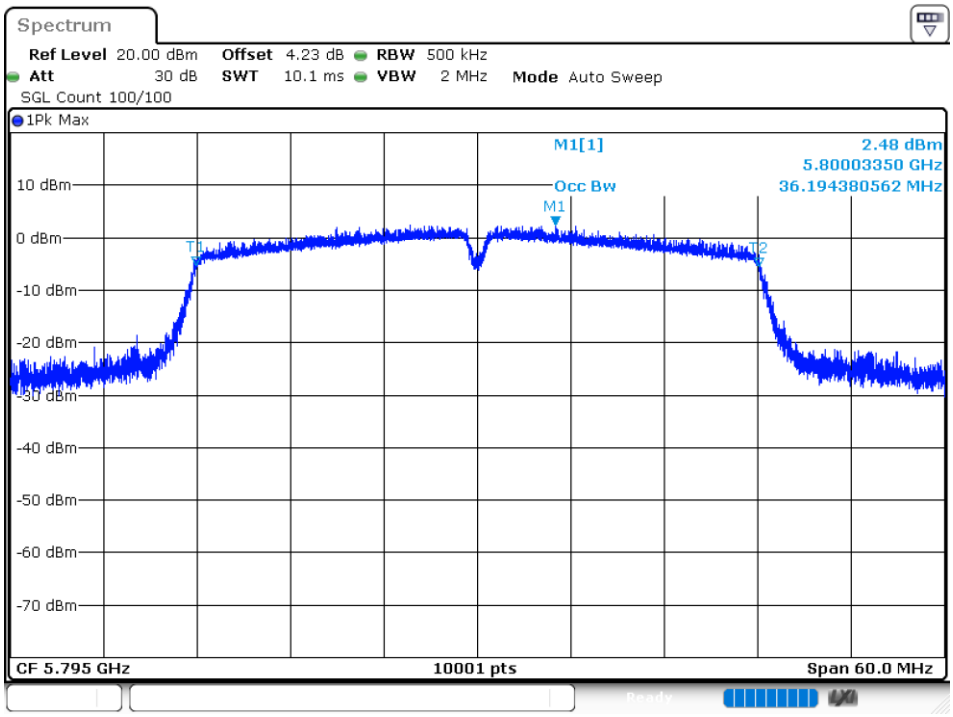
OBW NVNT ac20 5825MHz Ant1



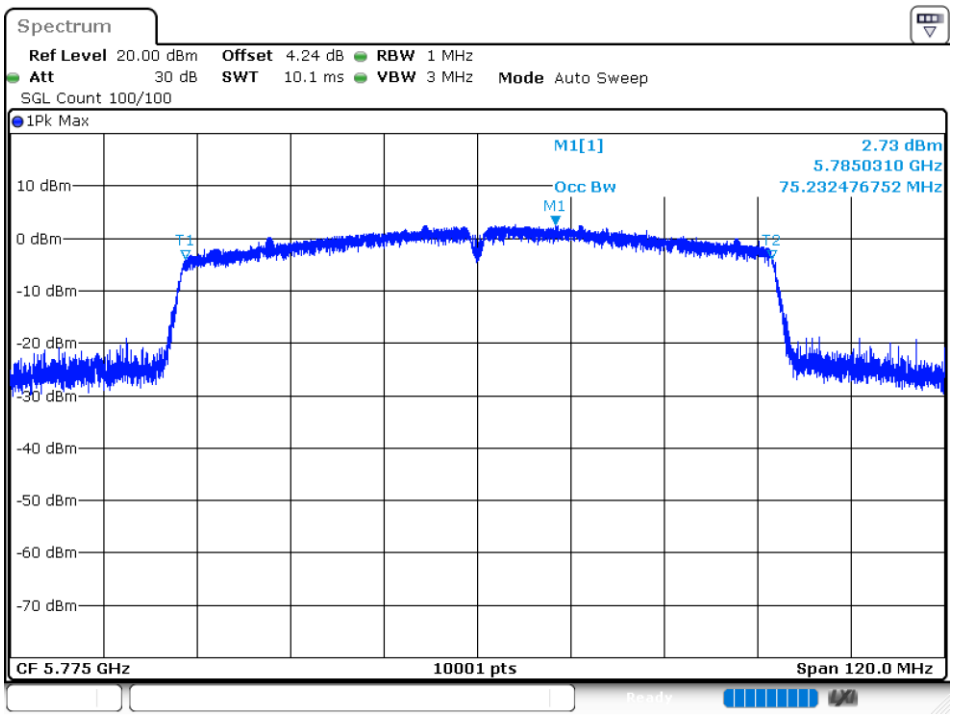
OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



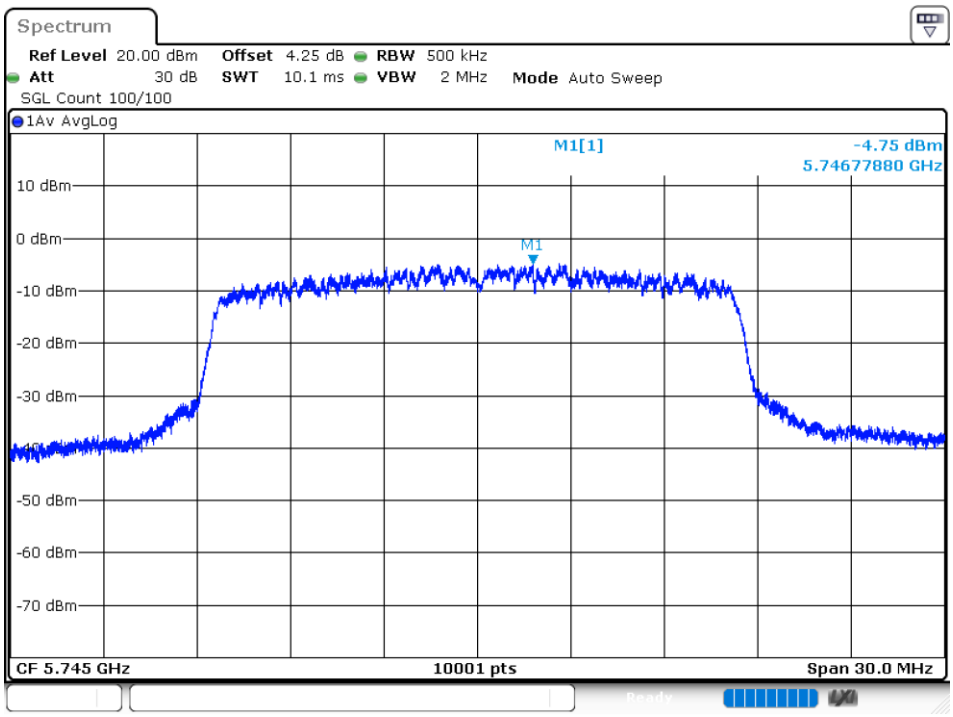
OBW NVNT ac80 5775MHz Ant1



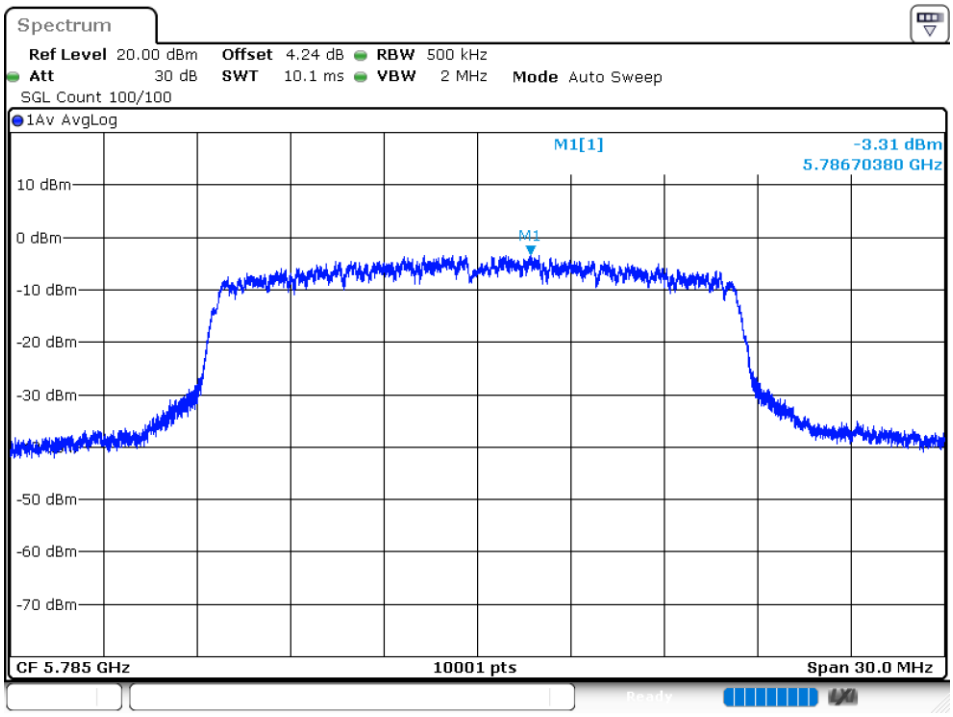
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-4.75	0.08	-4.67	30	Pass
NVNT	a	5785	Ant1	-3.31	0.08	-3.23	30	Pass
NVNT	a	5825	Ant1	-2.63	0.03	-2.6	30	Pass
NVNT	n20	5745	Ant1	-5.08	0.08	-5	30	Pass
NVNT	n20	5785	Ant1	-3.08	0.09	-2.99	30	Pass
NVNT	n20	5825	Ant1	-2.81	0.04	-2.77	30	Pass
NVNT	n40	5755	Ant1	-7.24	0.09	-7.15	30	Pass
NVNT	n40	5795	Ant1	-6.49	0.09	-6.4	30	Pass
NVNT	ac20	5745	Ant1	-5.14	0.09	-5.05	30	Pass
NVNT	ac20	5785	Ant1	-3.44	0.08	-3.36	30	Pass
NVNT	ac20	5825	Ant1	-2.96	0.08	-2.88	30	Pass
NVNT	ac40	5755	Ant1	-7.42	0.16	-7.26	30	Pass
NVNT	ac40	5795	Ant1	-7.05	0.16	-6.89	30	Pass
NVNT	ac80	5775	Ant1	-11.2	0.31	-10.89	30	Pass

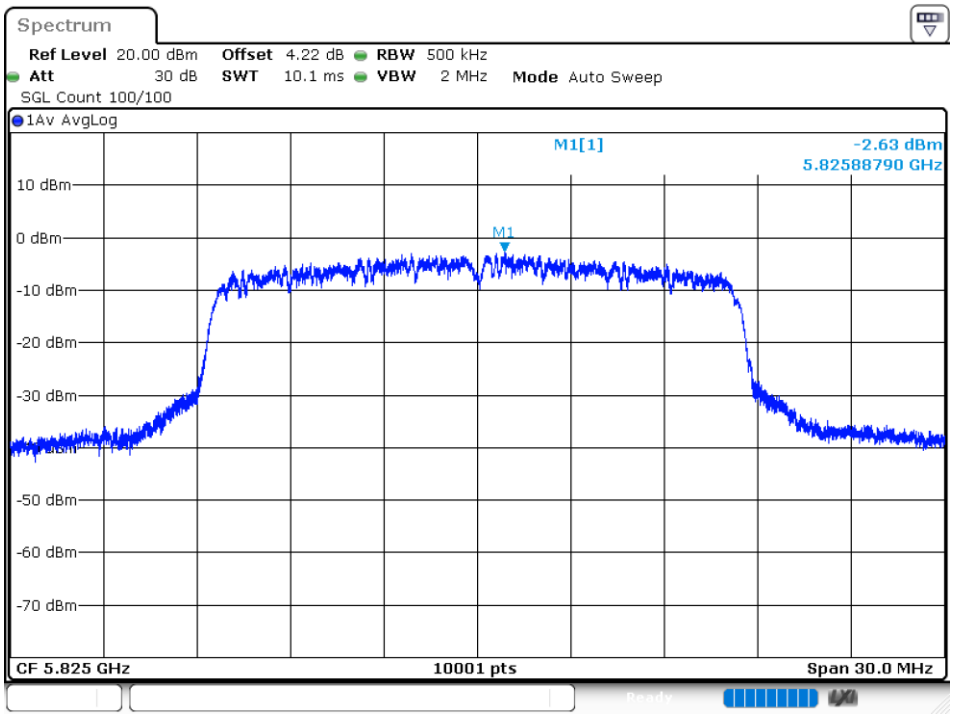
Test Graphs
PSD NVNT a 5745MHz Ant1



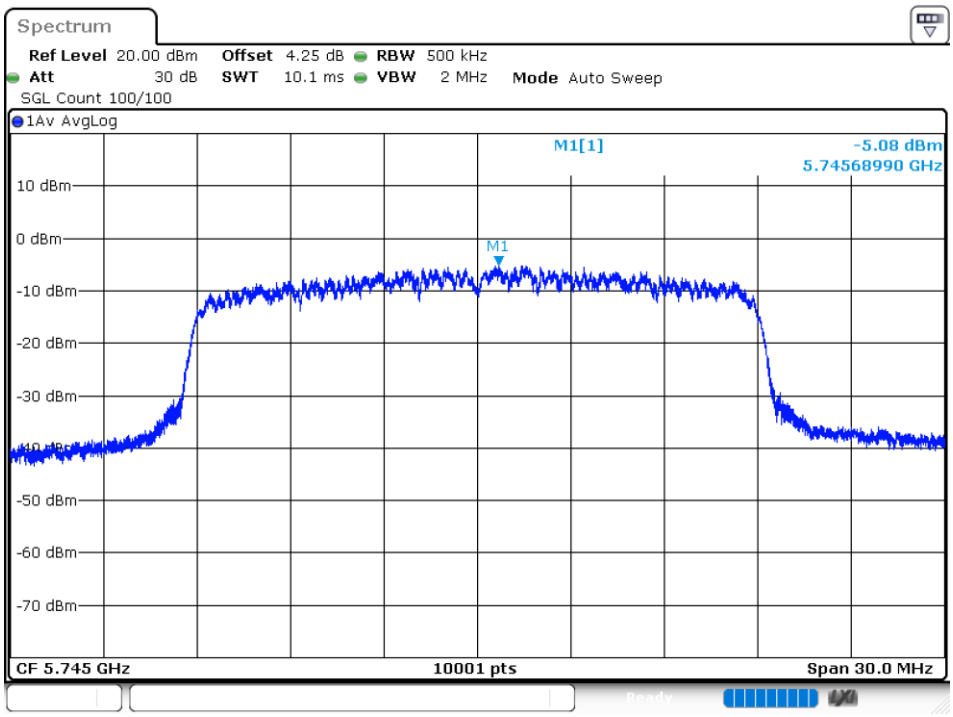
PSD NVNT a 5785MHz Ant1



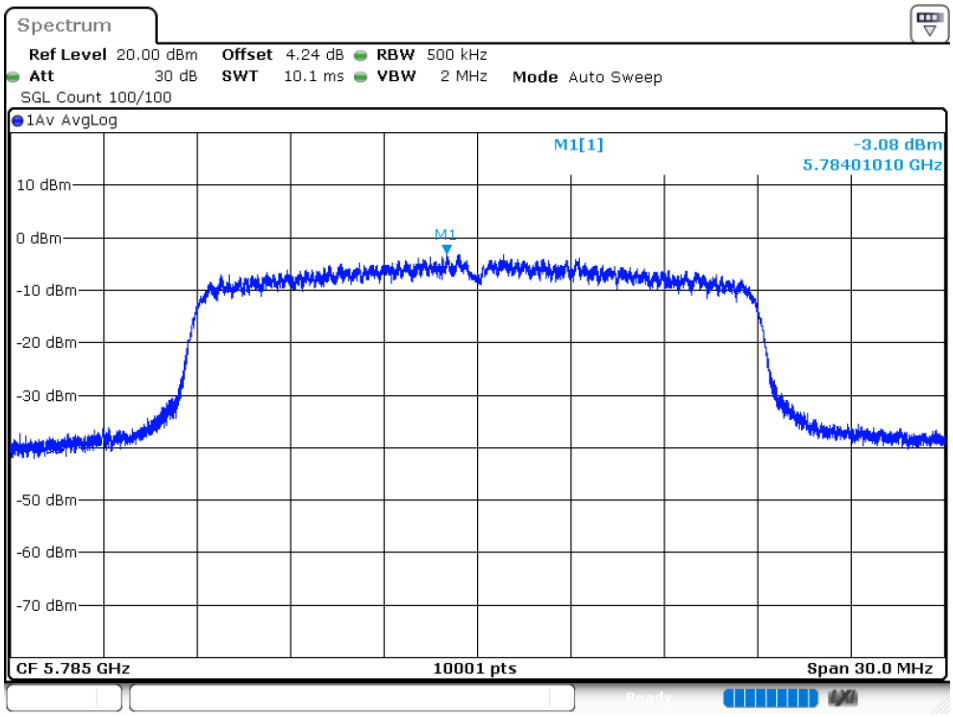
PSD NVNT a 5825MHz Ant1



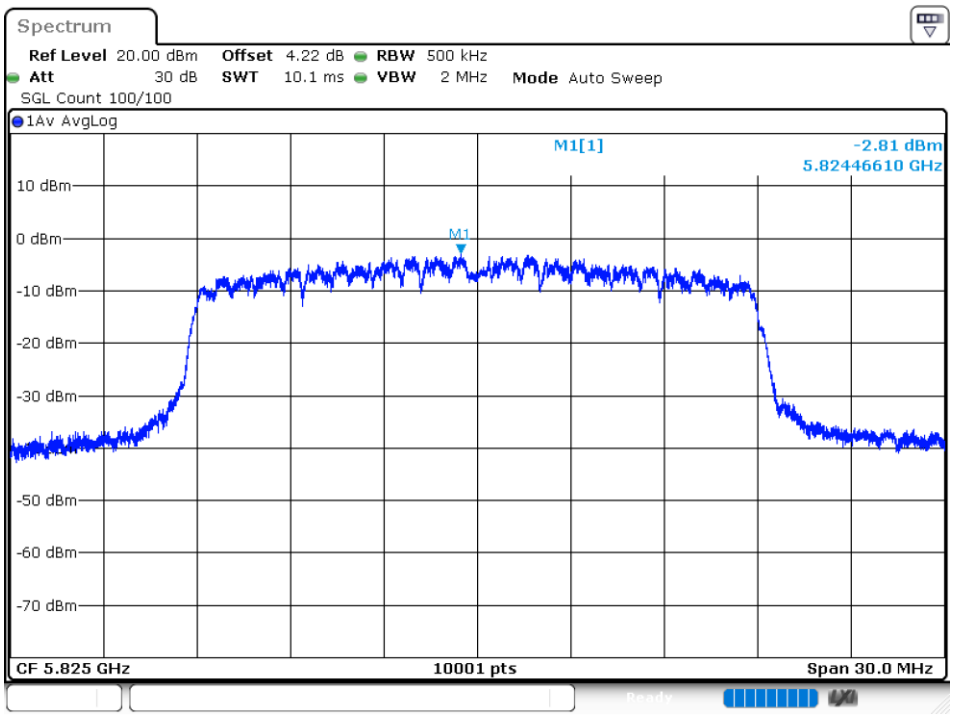
PSD NVNT n20 5745MHz Ant1



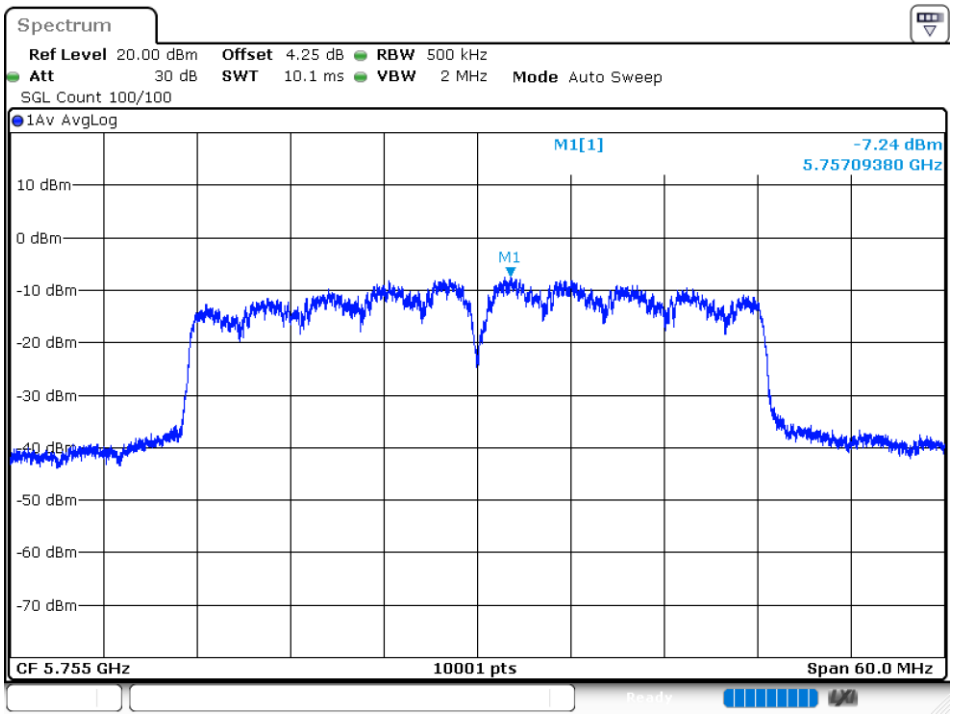
PSD NVNT n20 5785MHz Ant1



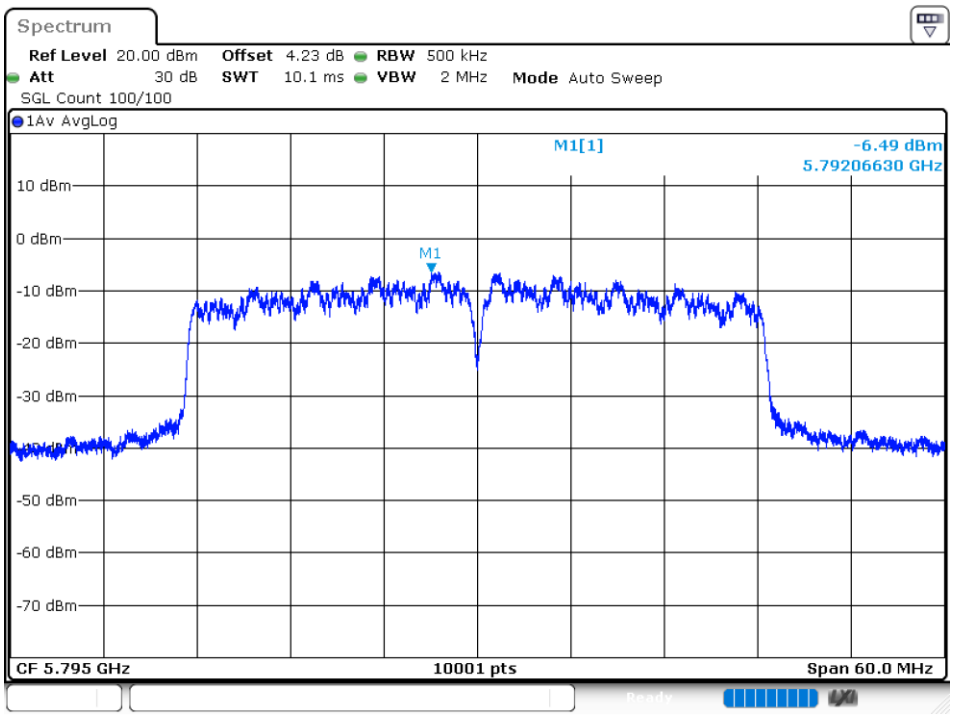
PSD NVNT n20 5825MHz Ant1



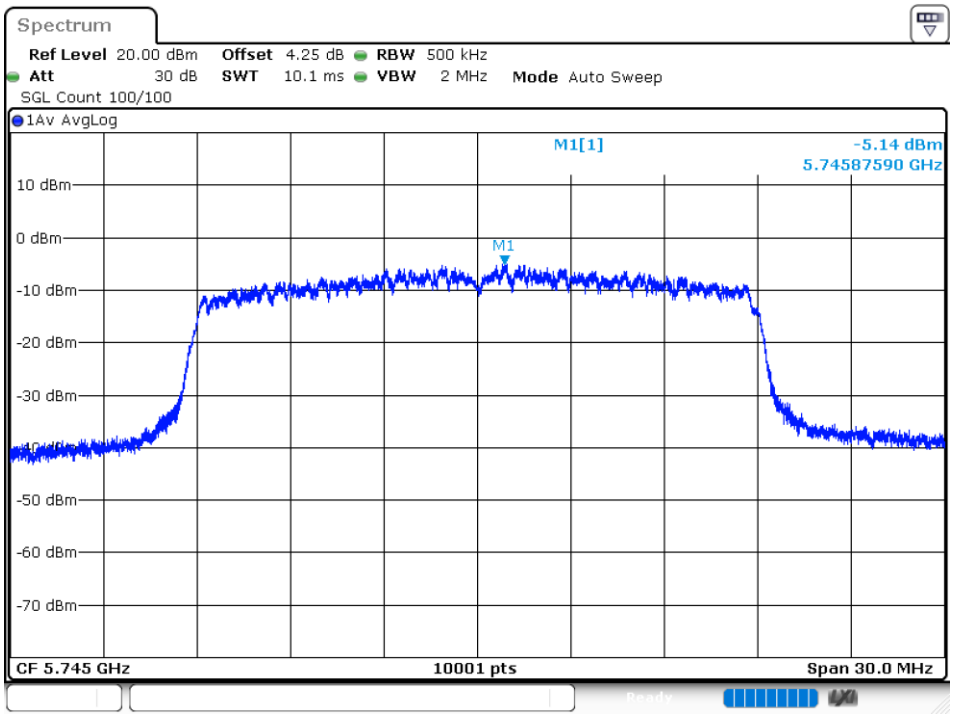
PSD NVNT n40 5755MHz Ant1



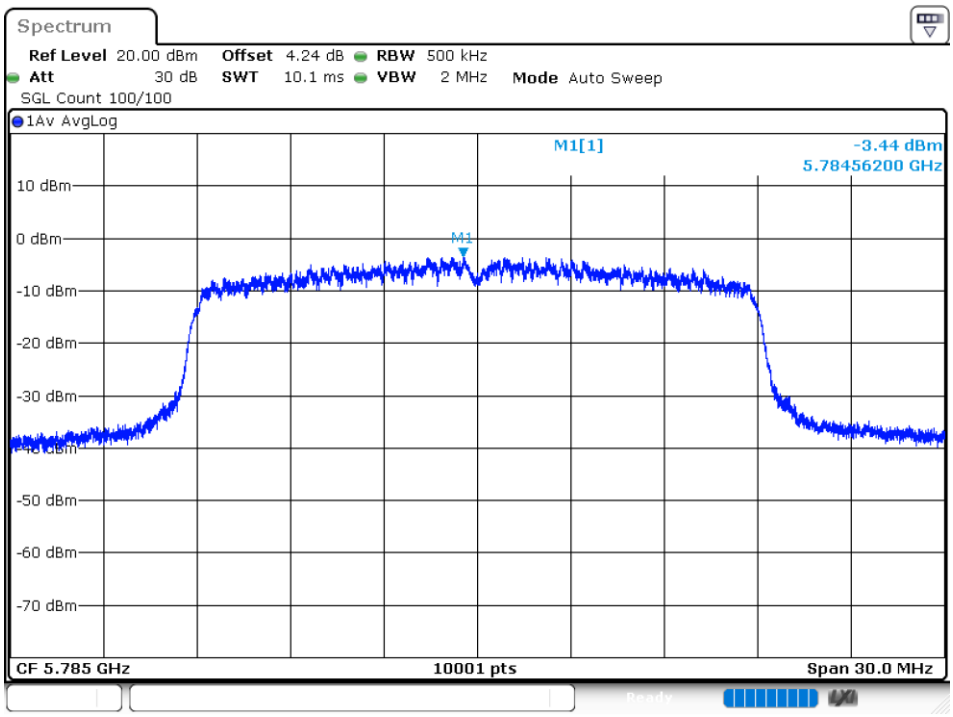
PSD NVNT n40 5795MHz Ant1



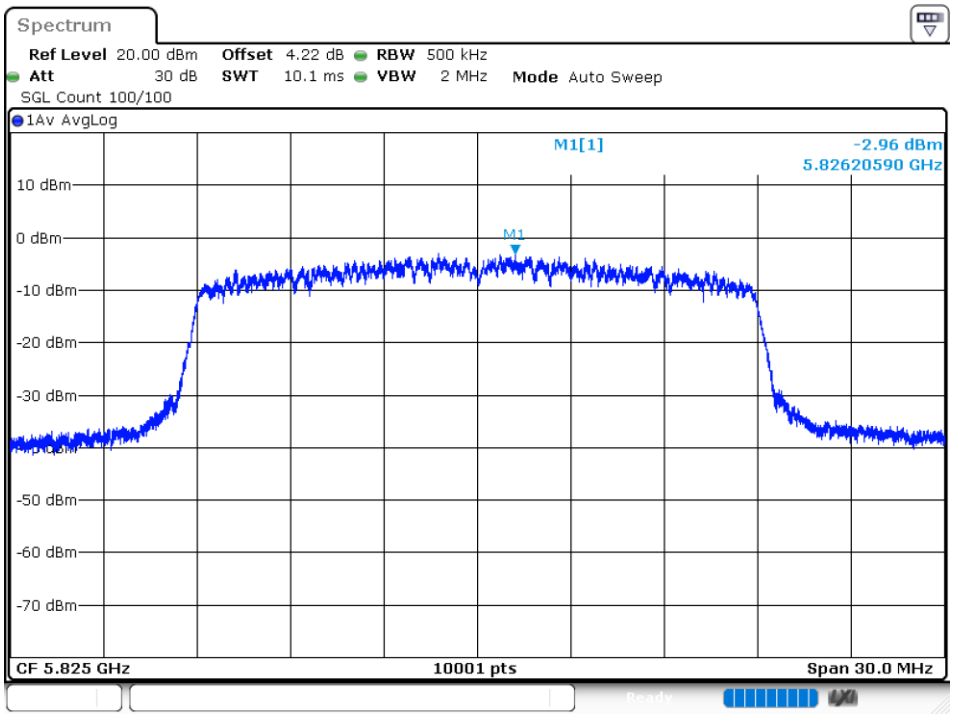
PSD NVNT ac20 5745MHz Ant1



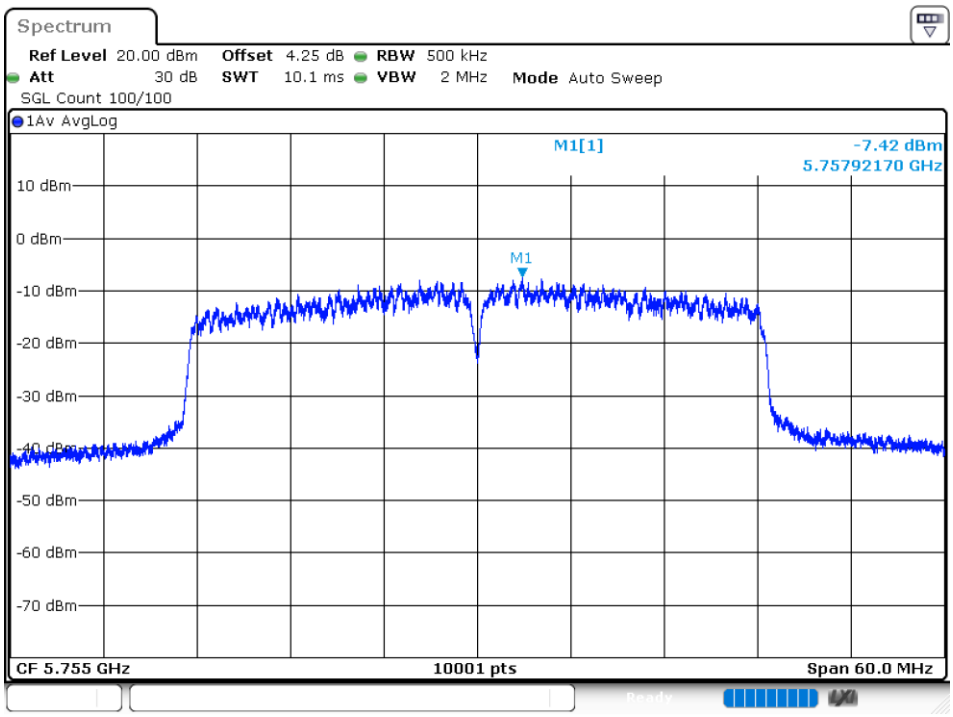
PSD NVNT ac20 5785MHz Ant1



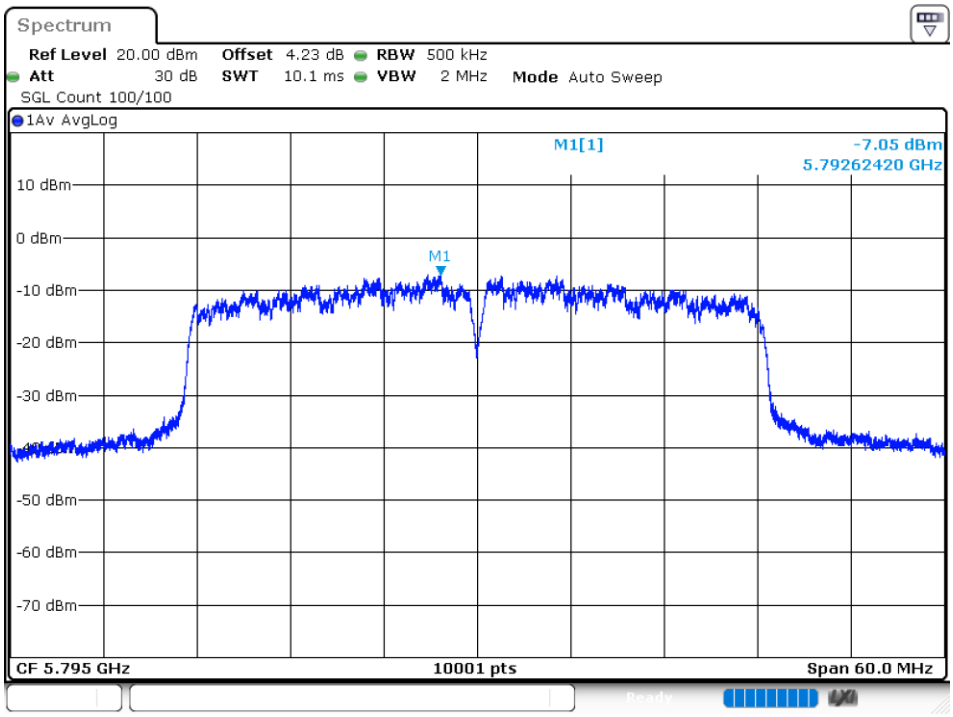
PSD NVNT ac20 5825MHz Ant1



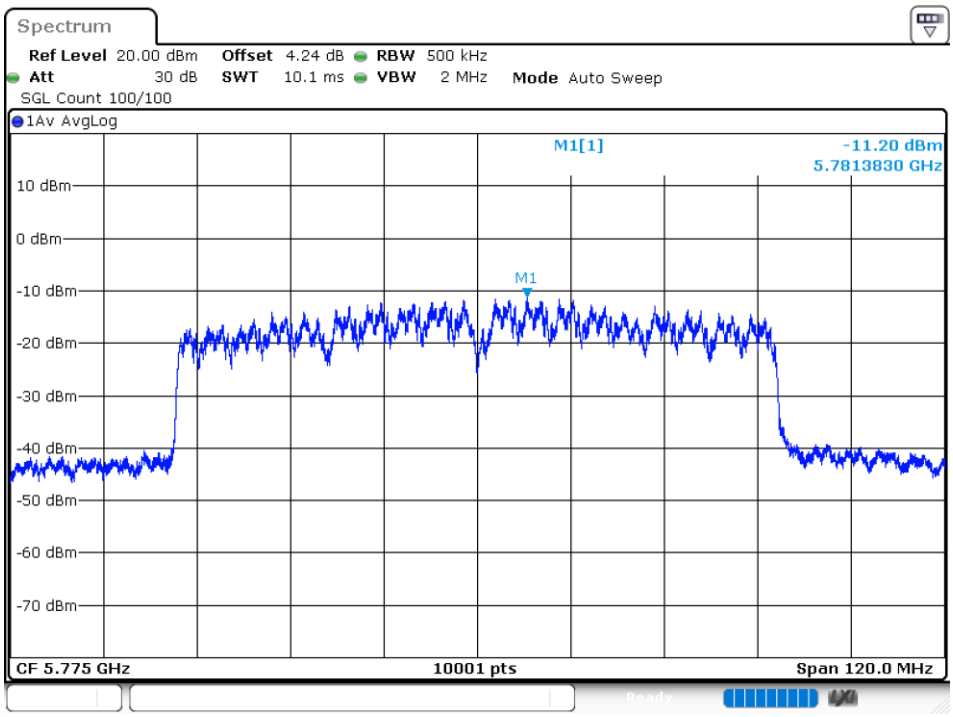
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



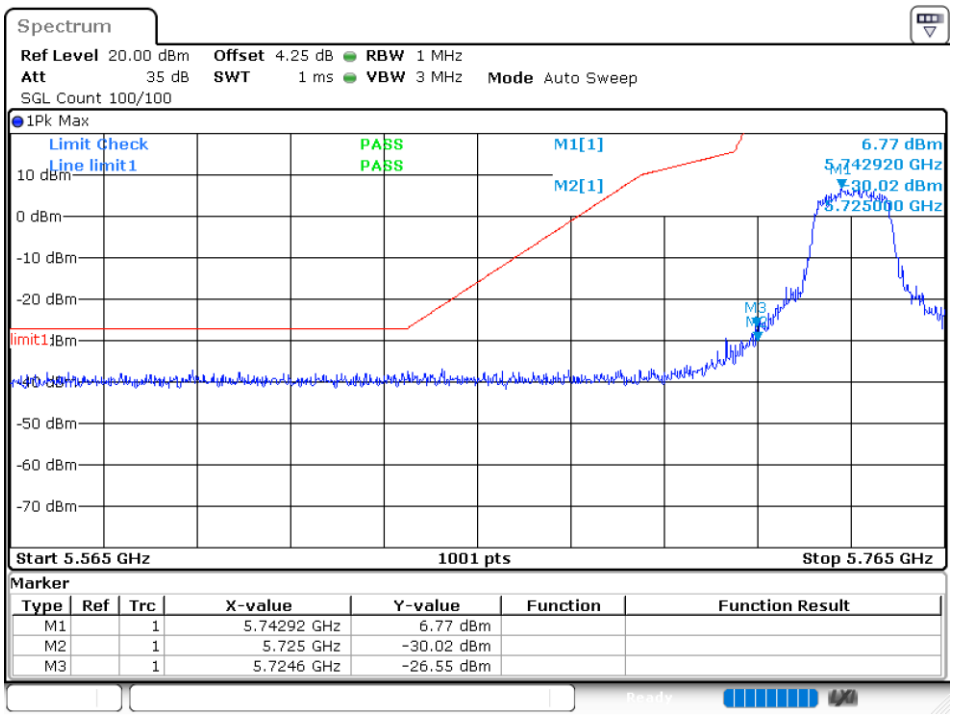
PSD NVNT ac80 5775MHz Ant1



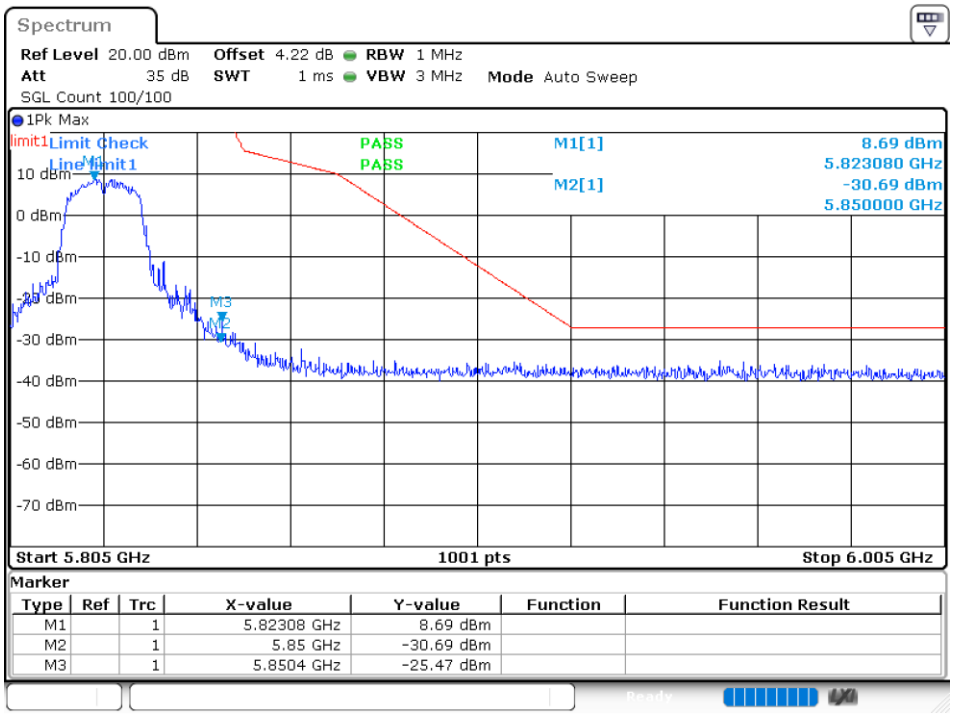
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-26.55	Pass
NVNT	a	5825	Ant1	-25.47	Pass
NVNT	n20	5745	Ant1	-26.48	Pass
NVNT	n20	5825	Ant1	-26.6	Pass
NVNT	n40	5755	Ant1	-20.24	Pass
NVNT	n40	5795	Ant1	-28.32	Pass
NVNT	ac20	5745	Ant1	-24.53	Pass
NVNT	ac20	5825	Ant1	-25.73	Pass
NVNT	ac40	5755	Ant1	-22.67	Pass
NVNT	ac40	5795	Ant1	-31.71	Pass
NVNT	ac80	5775	Ant1	-23.4	Pass

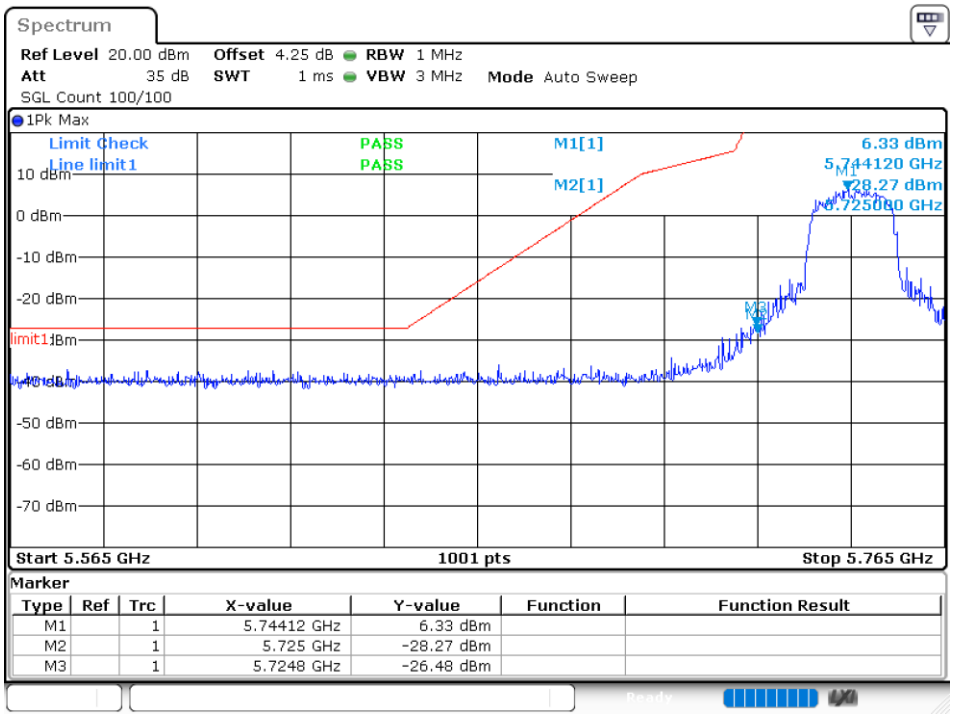
Test Graphs
Band Edge NVNT a 5745MHz Low Ant1



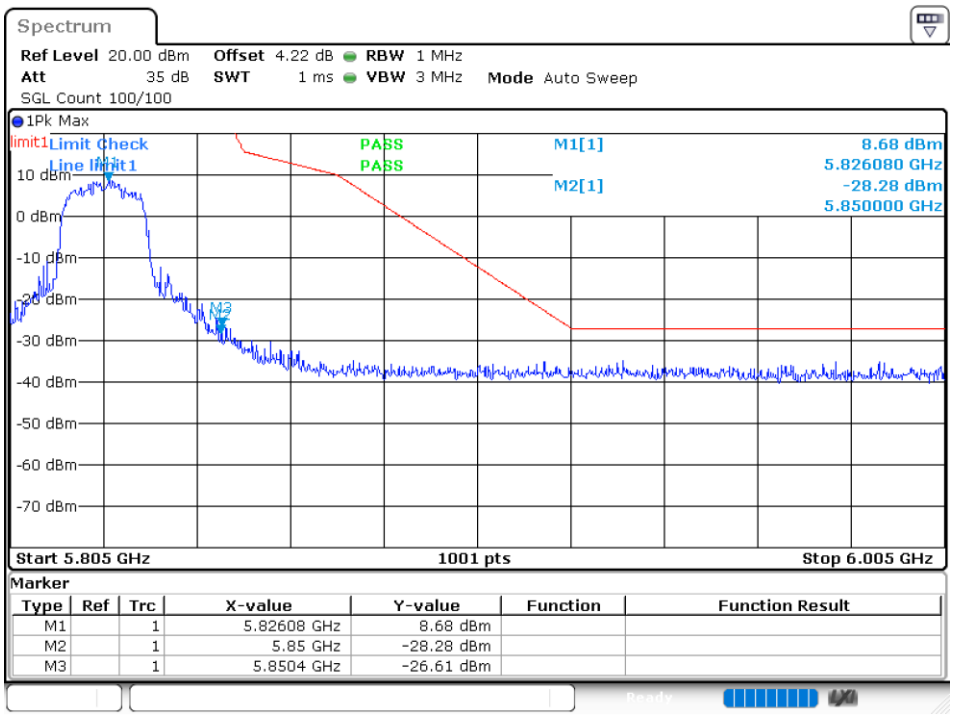
Band Edge NVNT a 5825MHz High Ant1



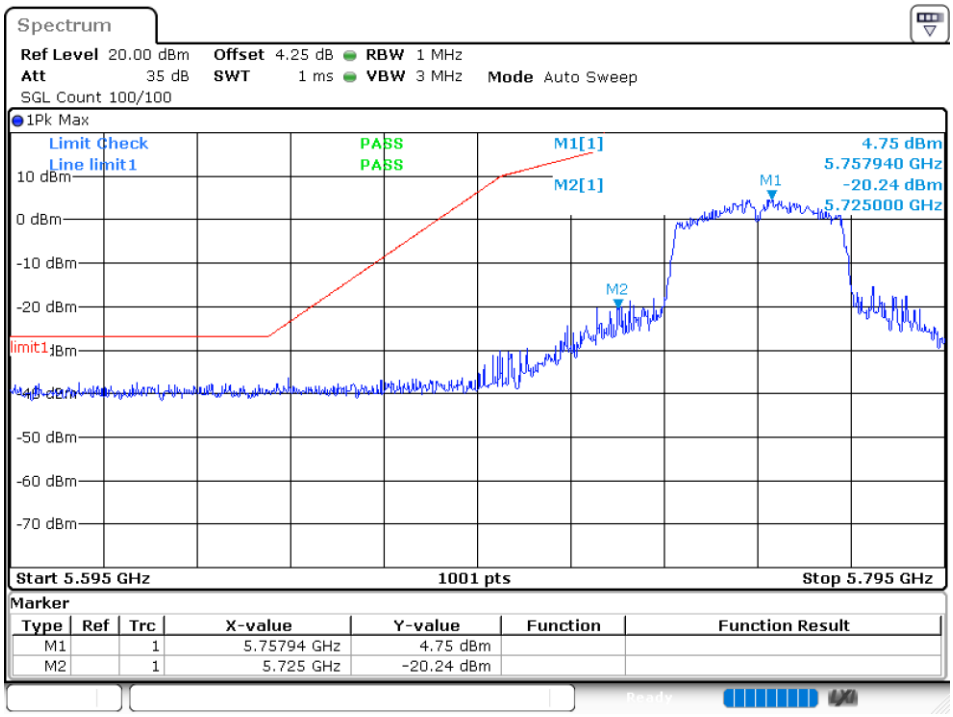
Band Edge NVNT n20 5745MHz Low Ant1



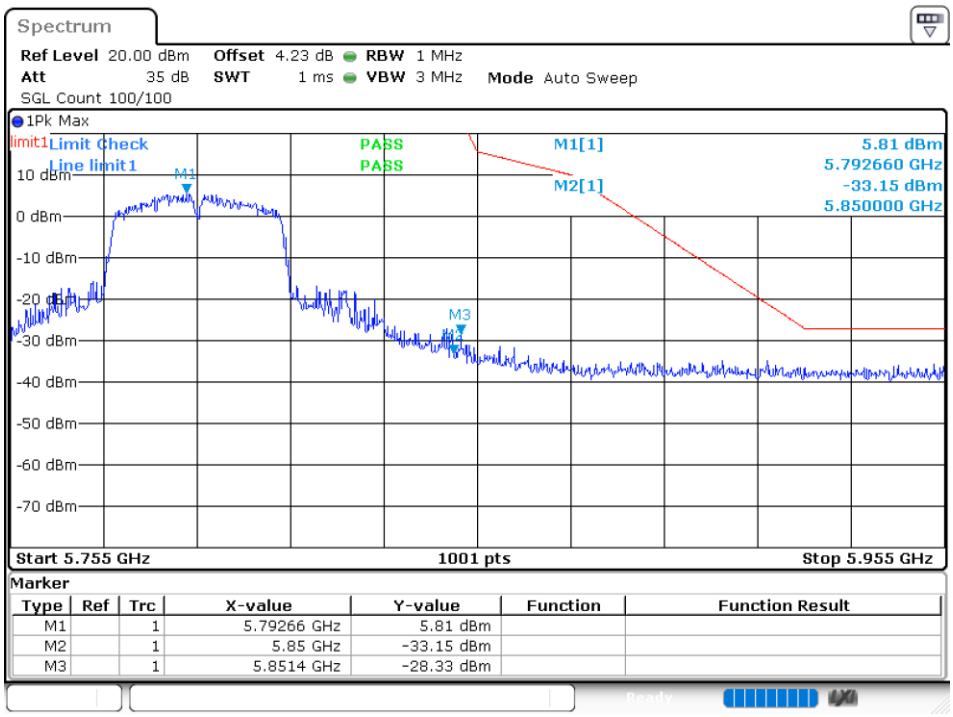
Band Edge NVNT n20 5825MHz High Ant1



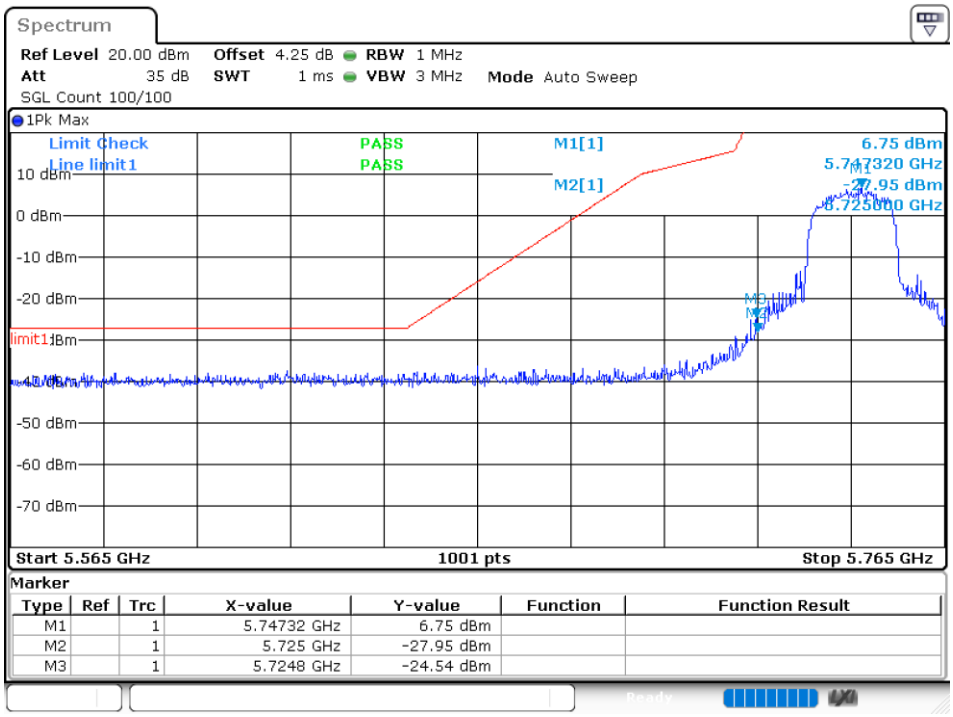
Band Edge NVNT n40 5755MHz Low Ant1



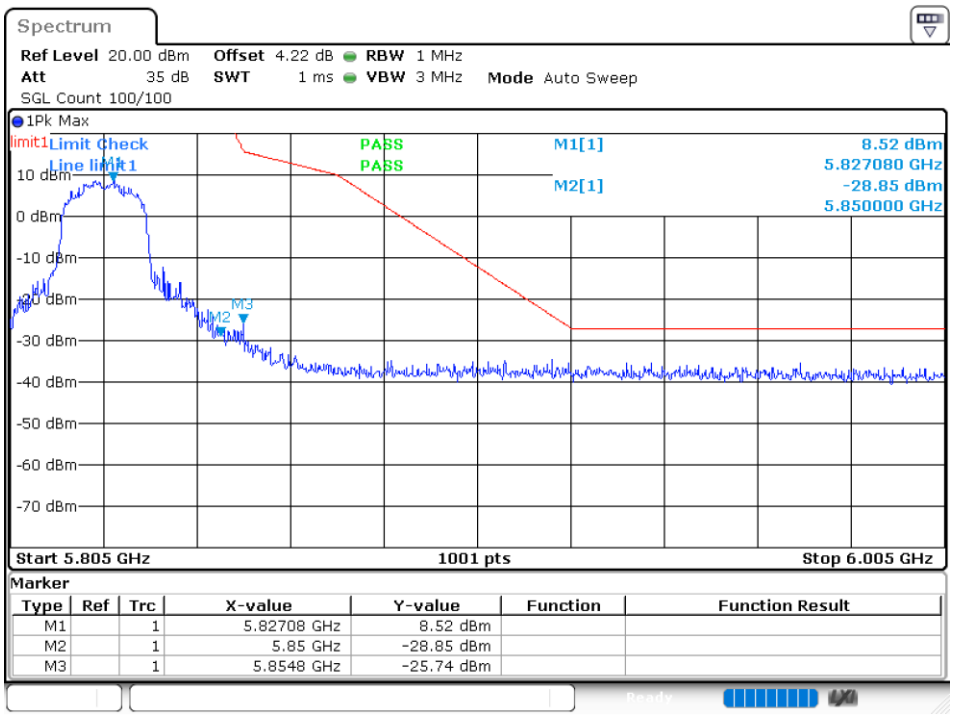
Band Edge NVNT n40 5795MHz High Ant1



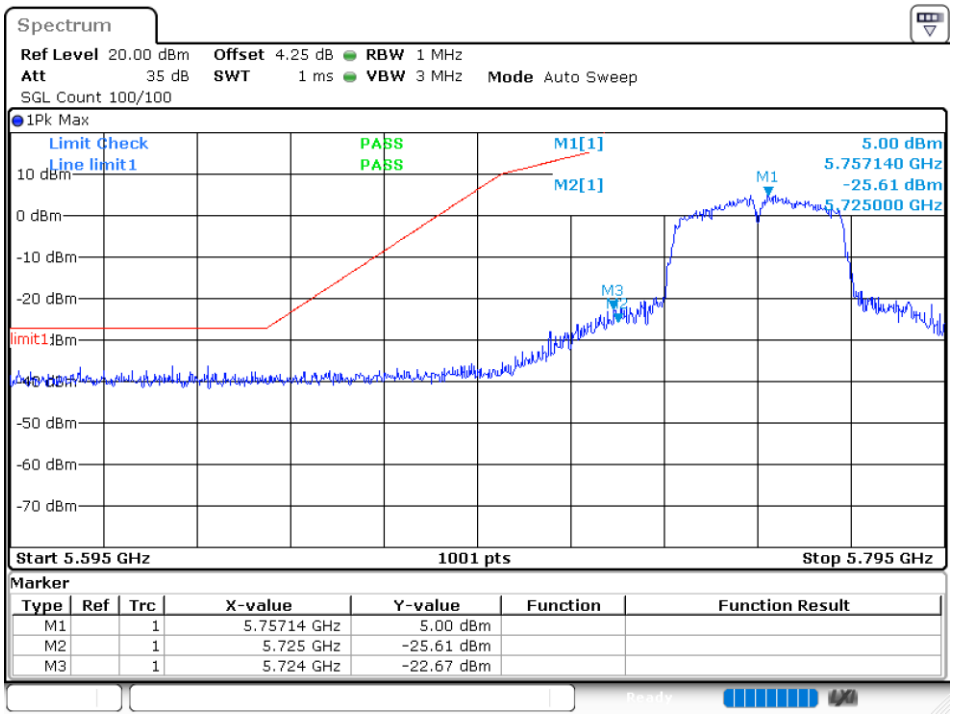
Band Edge NVNT ac20 5745MHz Low Ant1



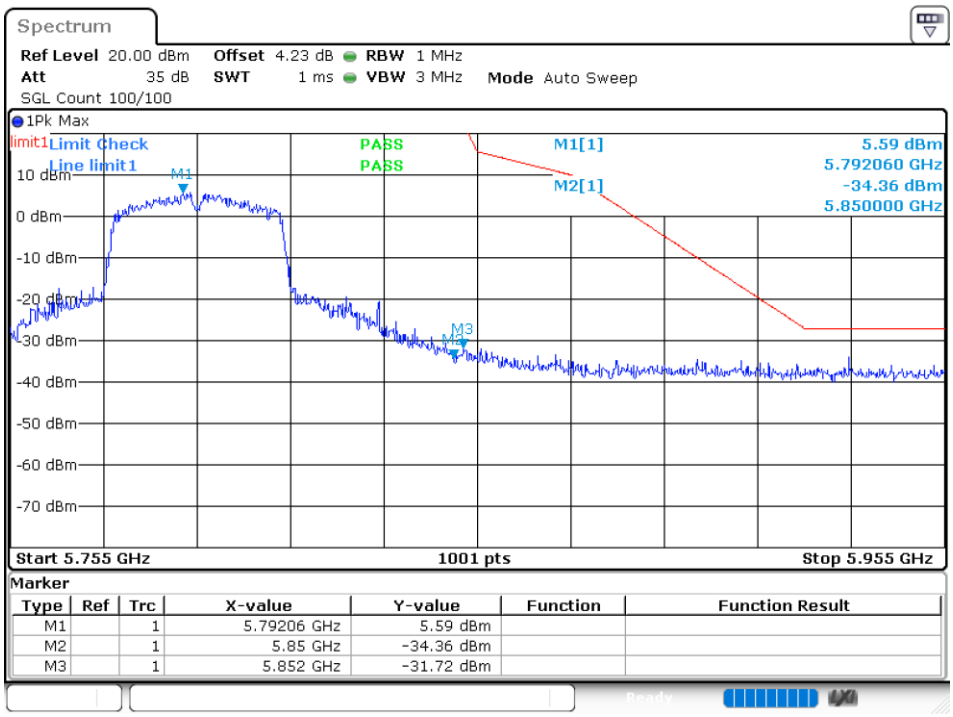
Band Edge NVNT ac20 5825MHz High Ant1



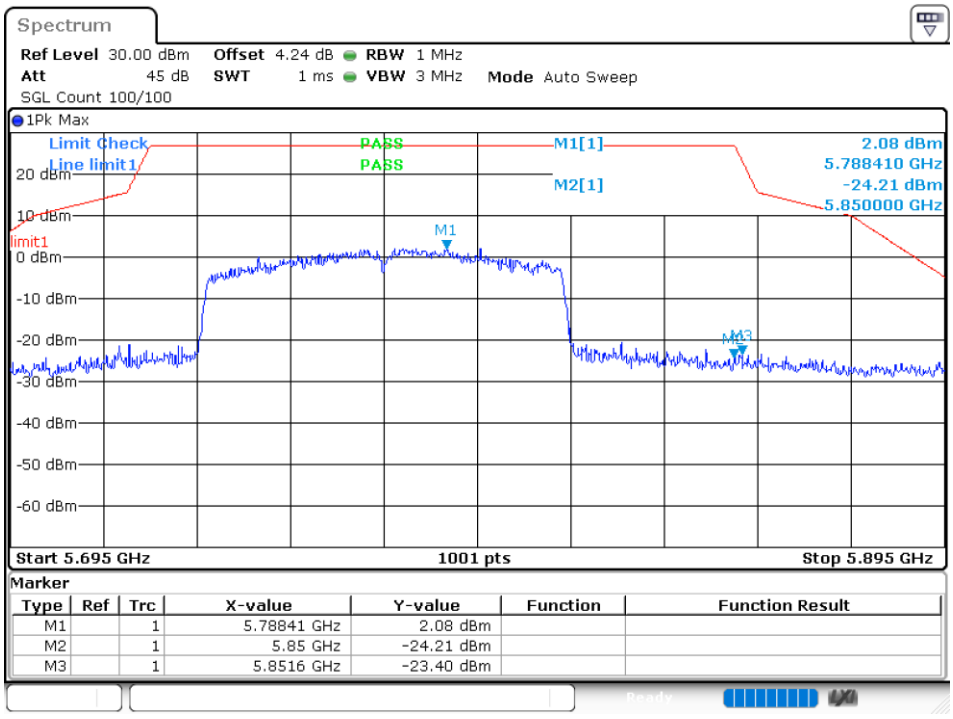
Band Edge NVNT ac40 5755MHz Low Ant1



Band Edge NVNT ac40 5795MHz High Ant1



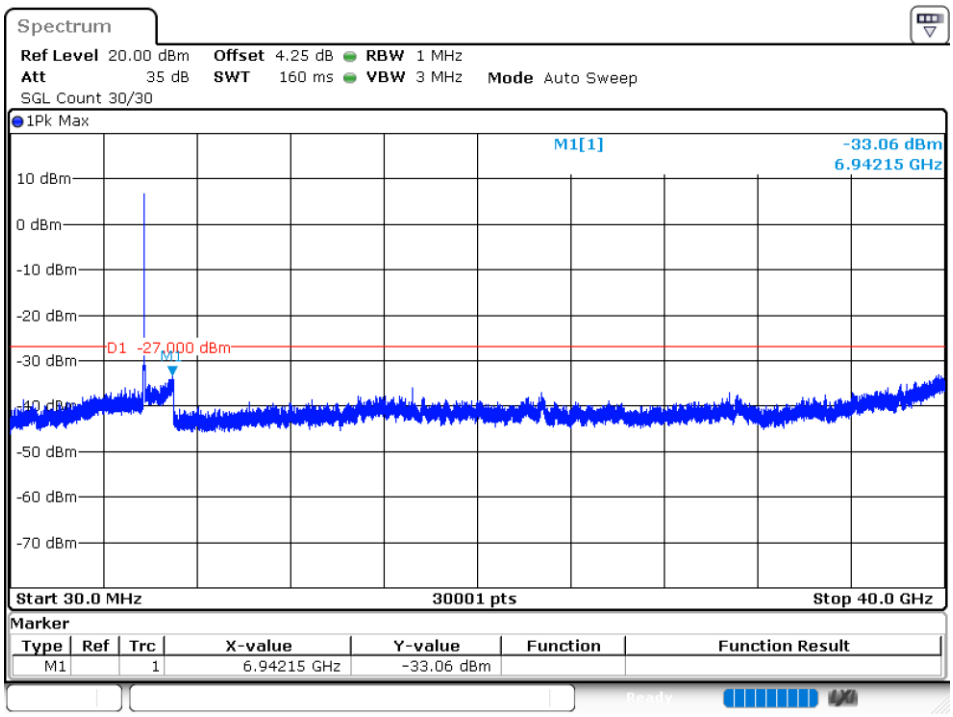
Band Edge NVNT ac80 5775MHz High Ant1



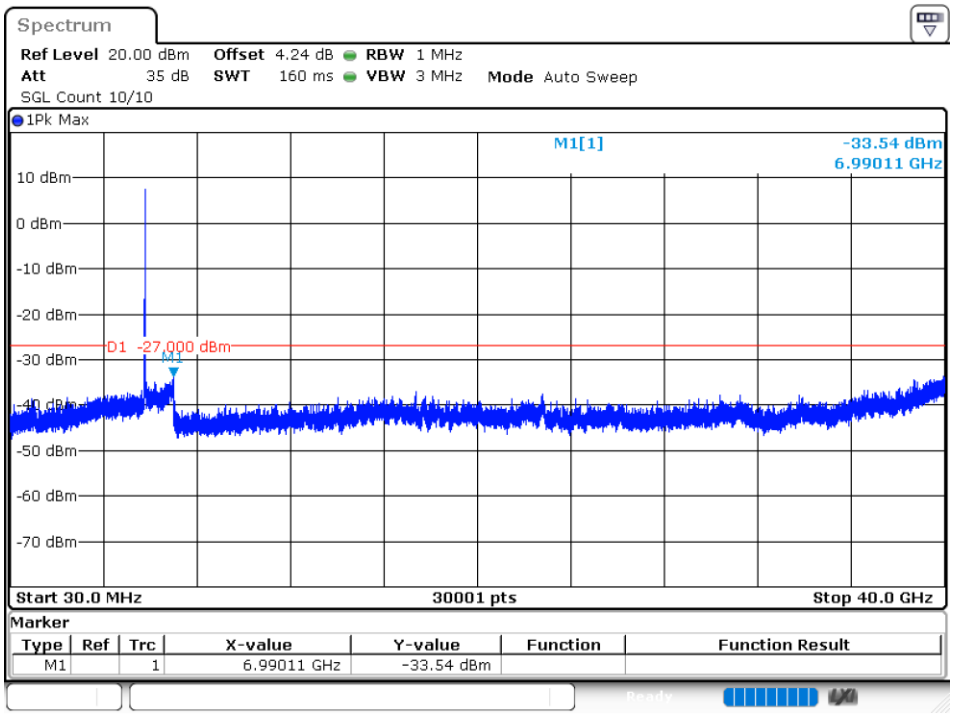
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5745	Ant1	-33.06	-27	Pass
NVNT	a	5785	Ant1	-33.53	-27	Pass
NVNT	a	5825	Ant1	-33.33	-27	Pass
NVNT	n20	5745	Ant1	-33.55	-27	Pass
NVNT	n20	5785	Ant1	-32.44	-27	Pass
NVNT	n20	5825	Ant1	-32.42	-27	Pass
NVNT	n40	5755	Ant1	-32.54	-27	Pass
NVNT	n40	5795	Ant1	-33.27	-27	Pass
NVNT	ac20	5745	Ant1	-33.36	-27	Pass
NVNT	ac20	5785	Ant1	-32.33	-27	Pass
NVNT	ac20	5825	Ant1	-33.03	-27	Pass
NVNT	ac40	5755	Ant1	-33.63	-27	Pass
NVNT	ac40	5795	Ant1	-33	-27	Pass
NVNT	ac80	5775	Ant1	-32.58	-27	Pass

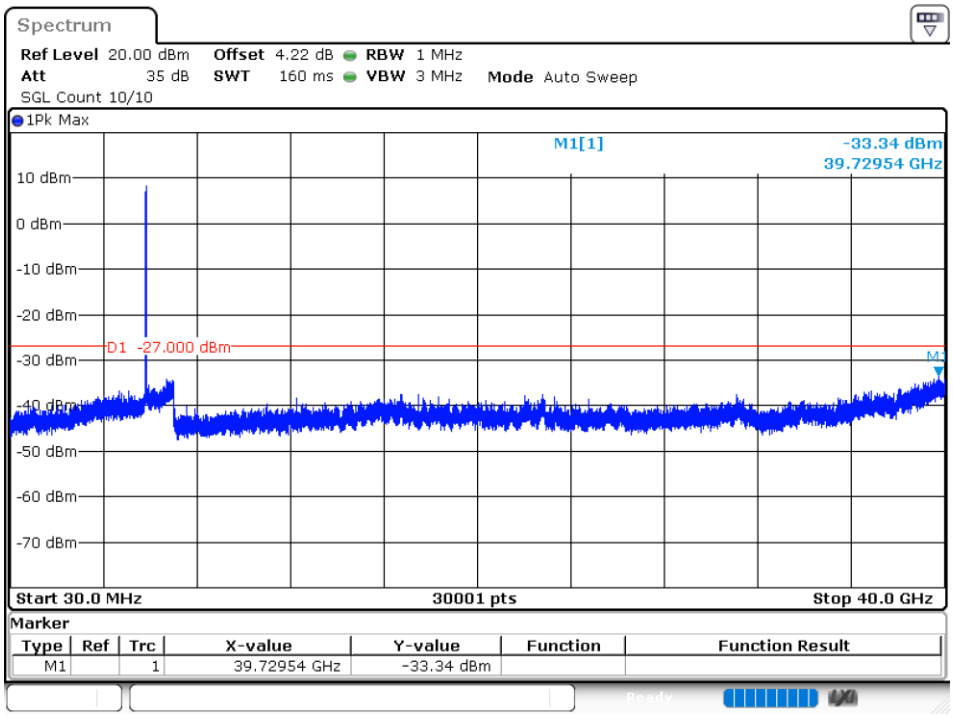
Test Graphs
Tx. Spurious NVNT a 5745MHz Ant1 Emission



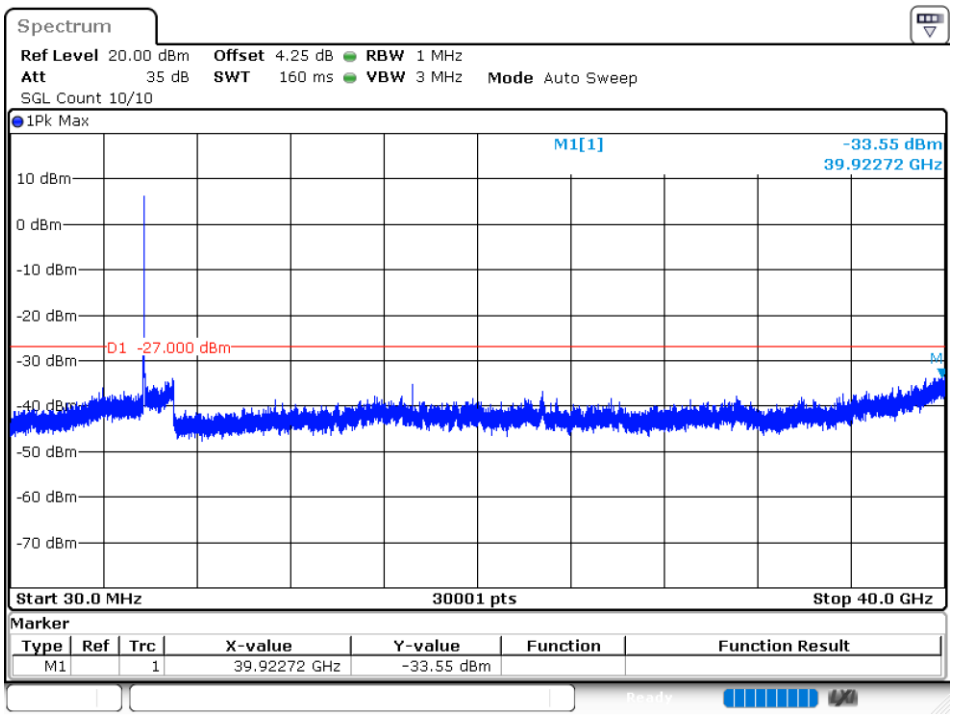
Tx. Spurious NVNT a 5785MHz Ant1 Emission



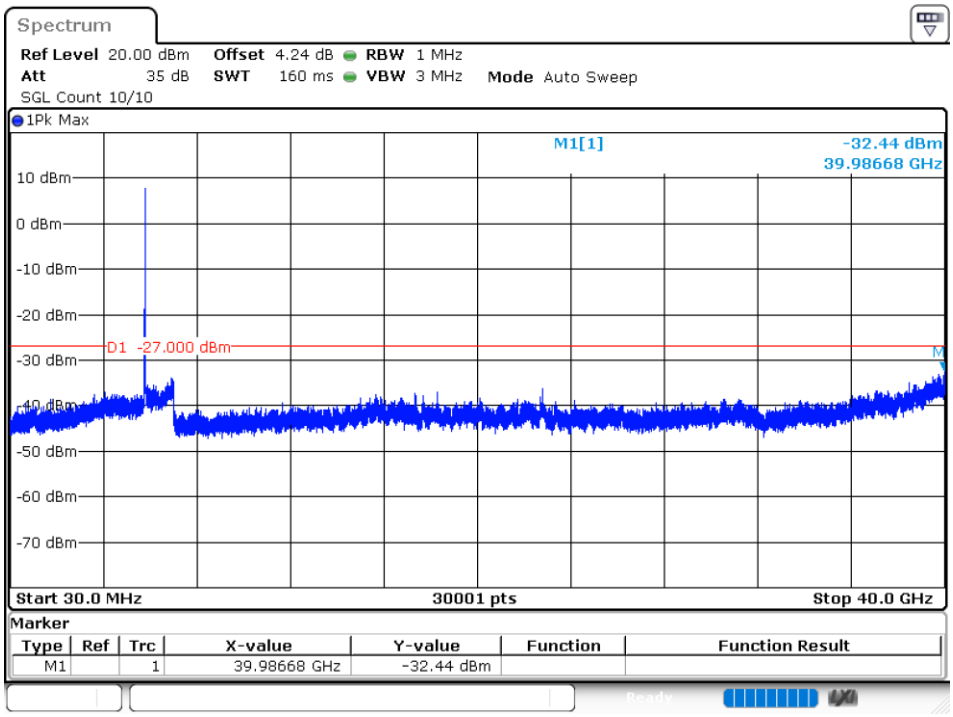
Tx. Spurious NVNT a 5825MHz Ant1 Emission



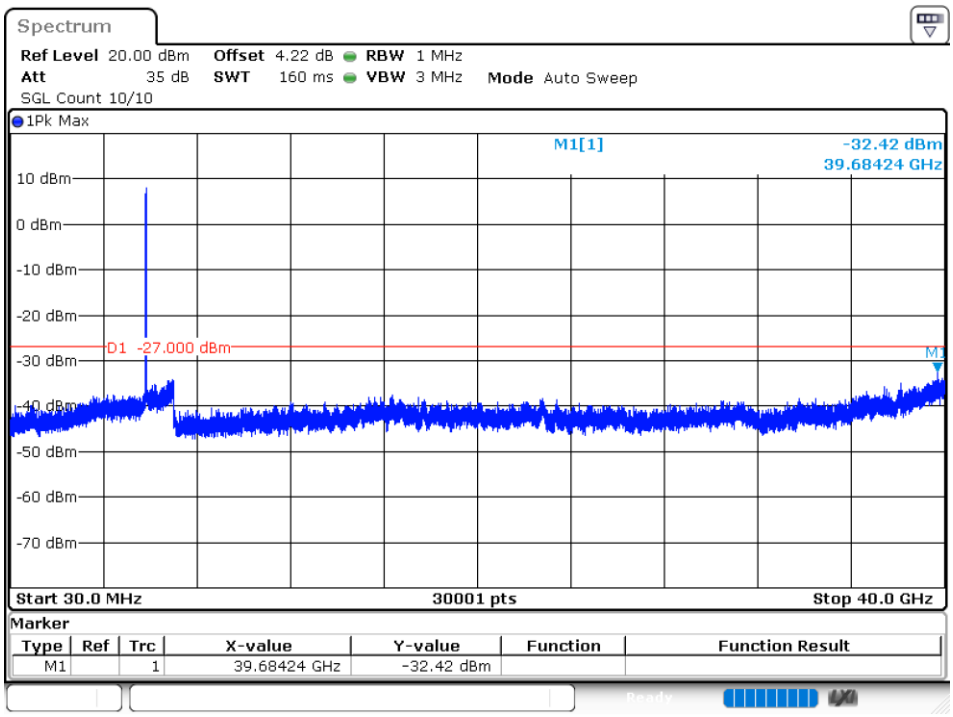
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



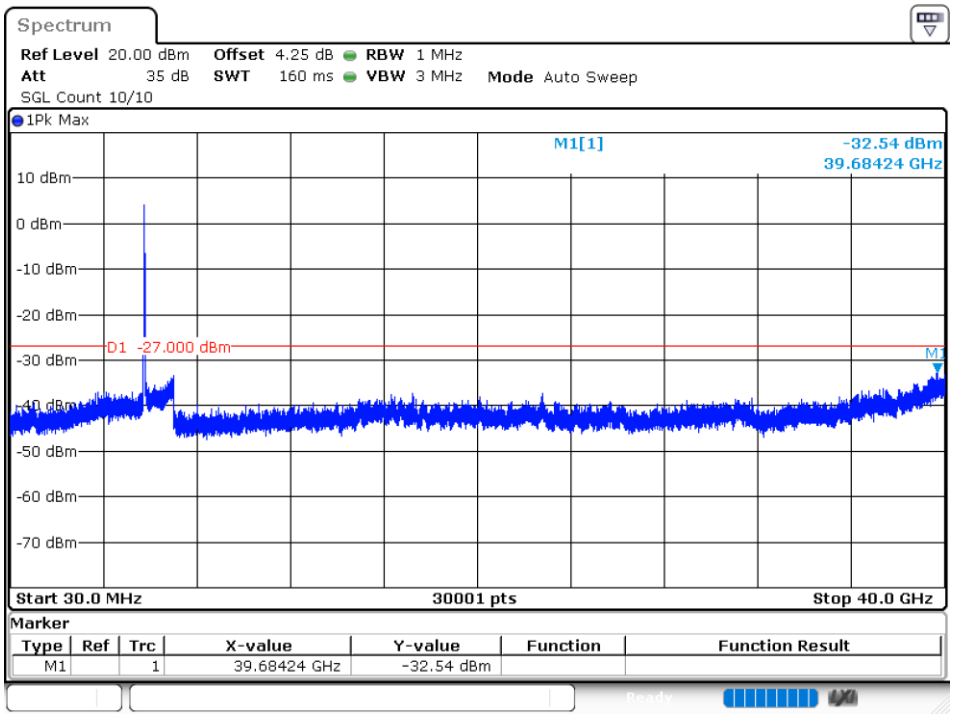
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



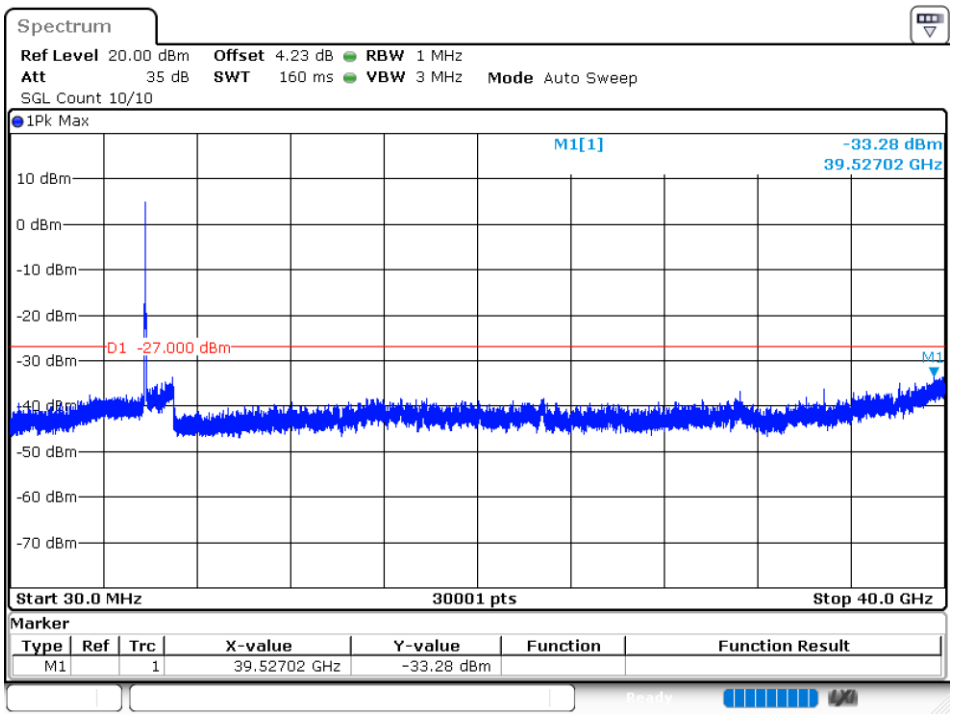
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



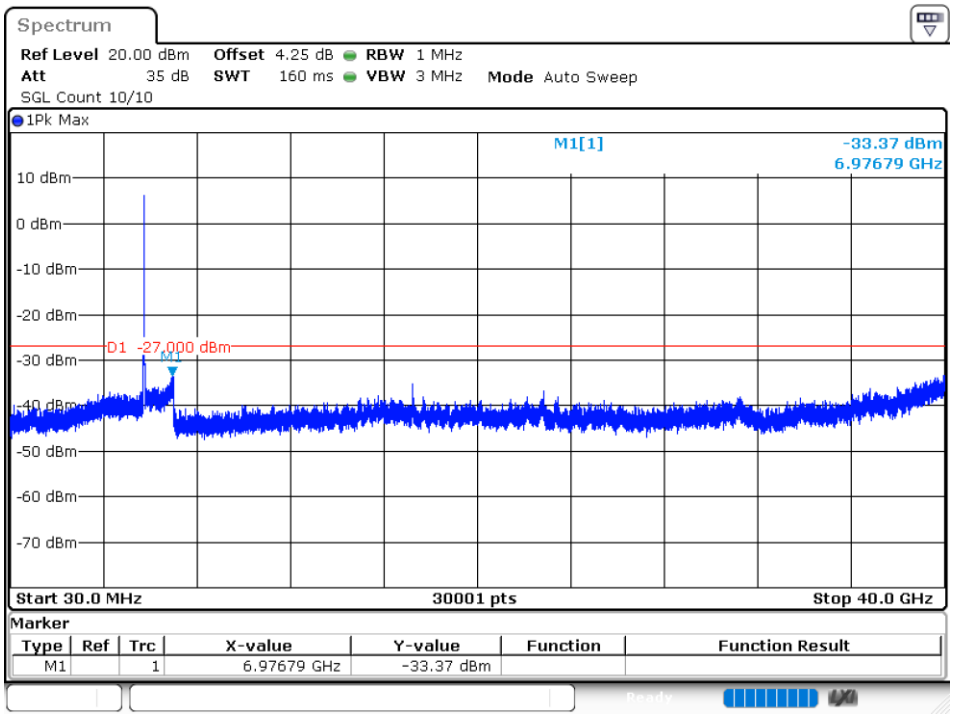
Tx. Spurious NVNT n40 5755MHz Ant1 Emission



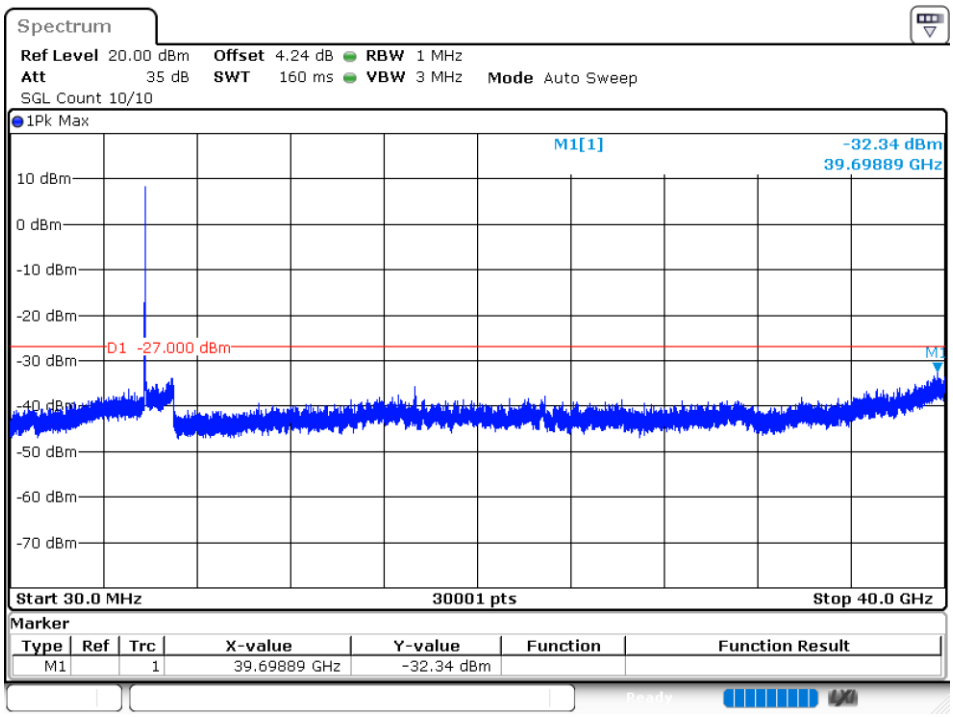
Tx. Spurious NVNT n40 5795MHz Ant1 Emission



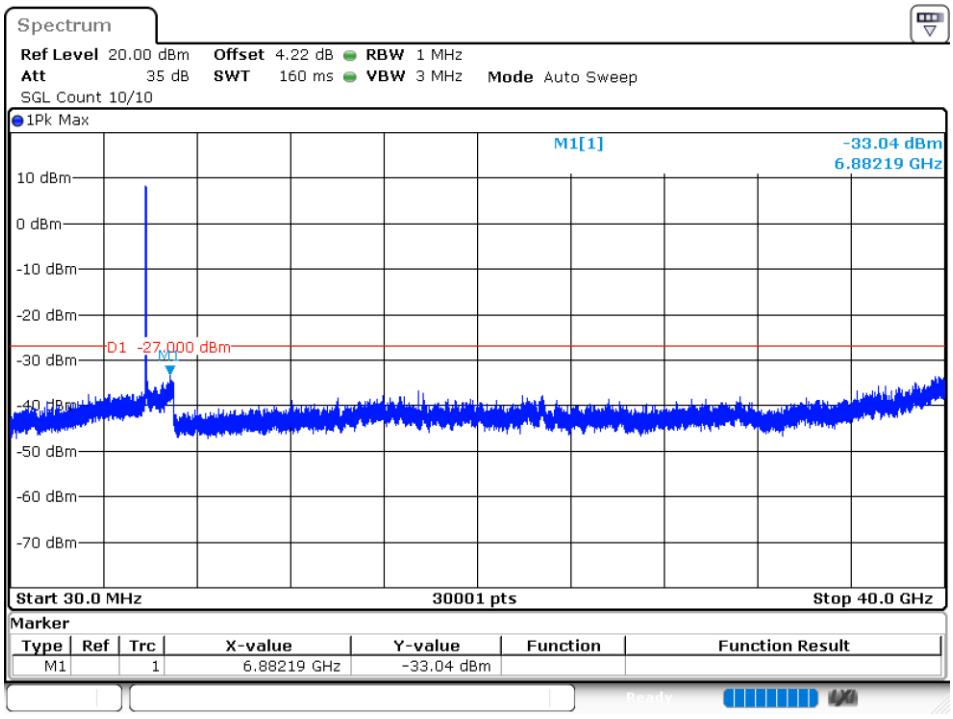
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



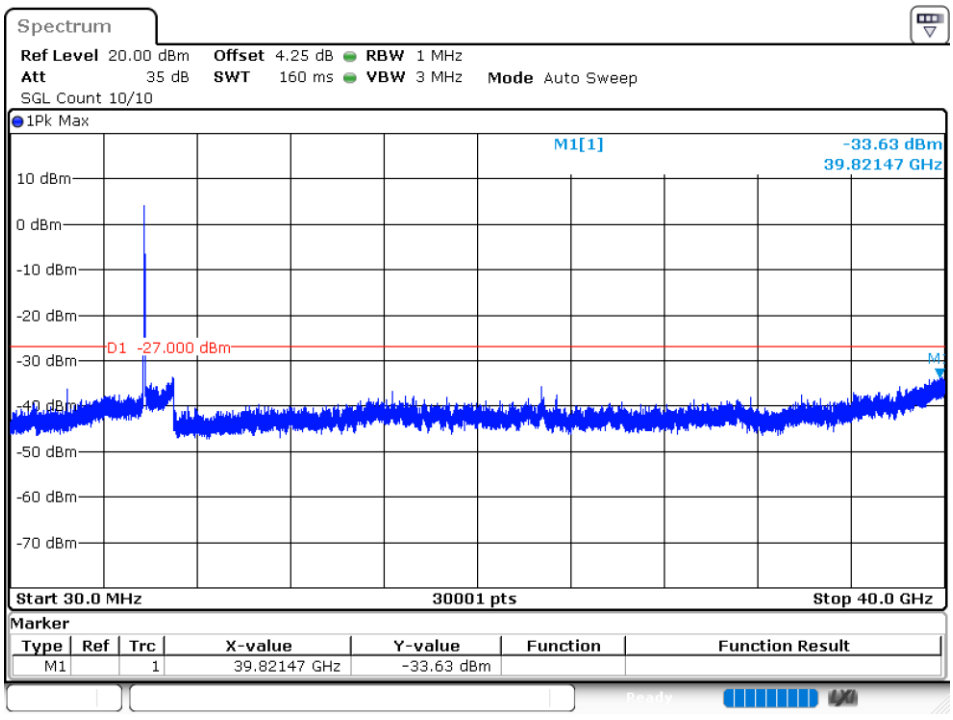
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



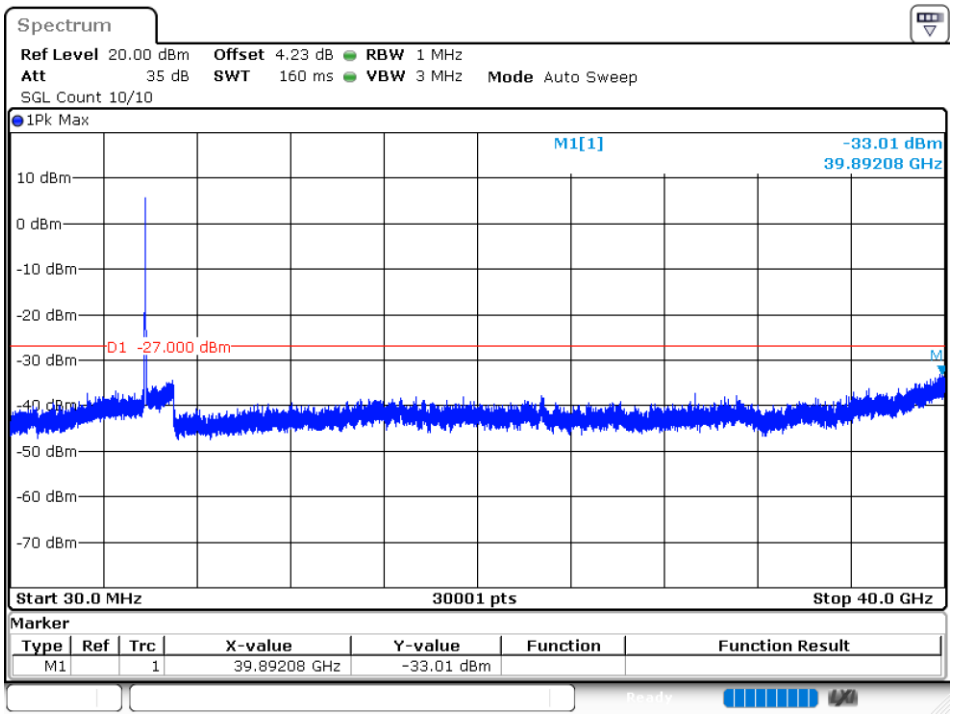
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



Tx. Spurious NVNT ac80 5775MHz Ant1 Emission

