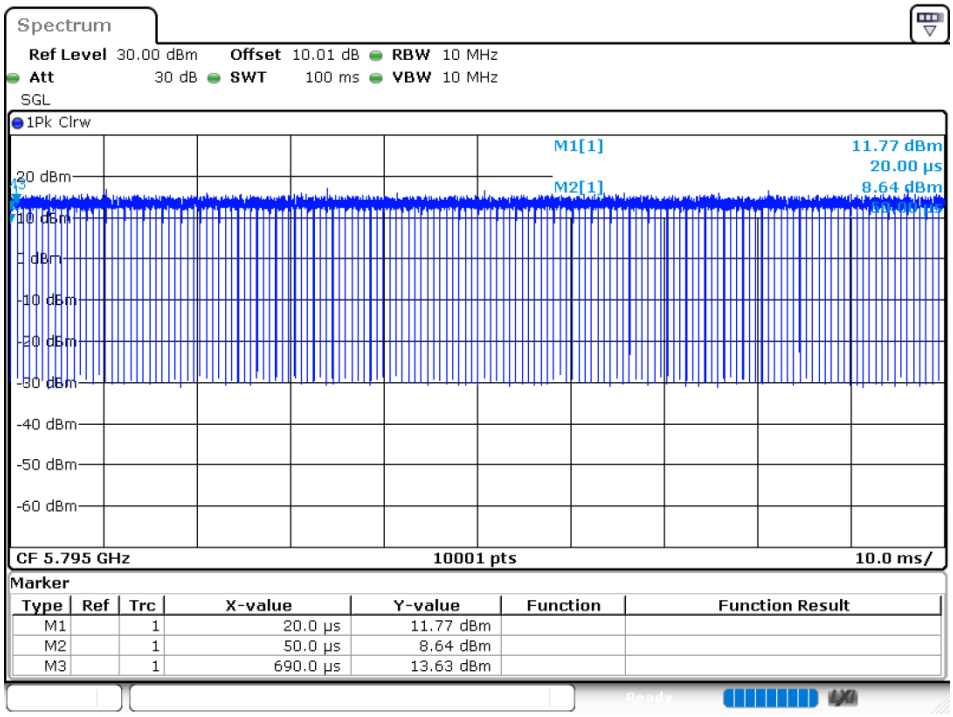
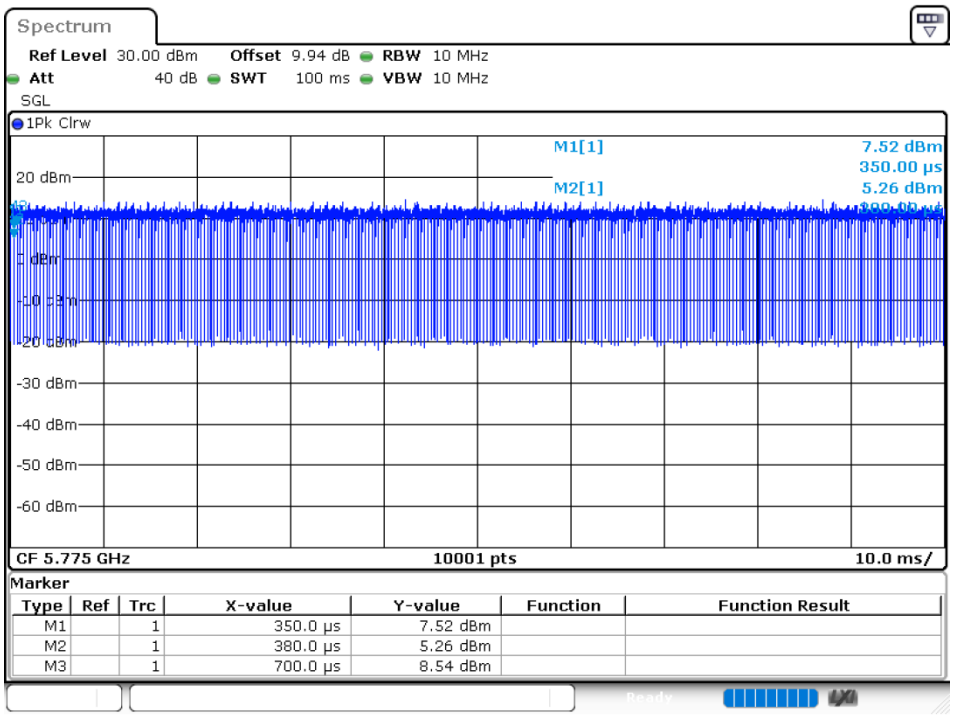
Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



Maximum Conducted Output Power

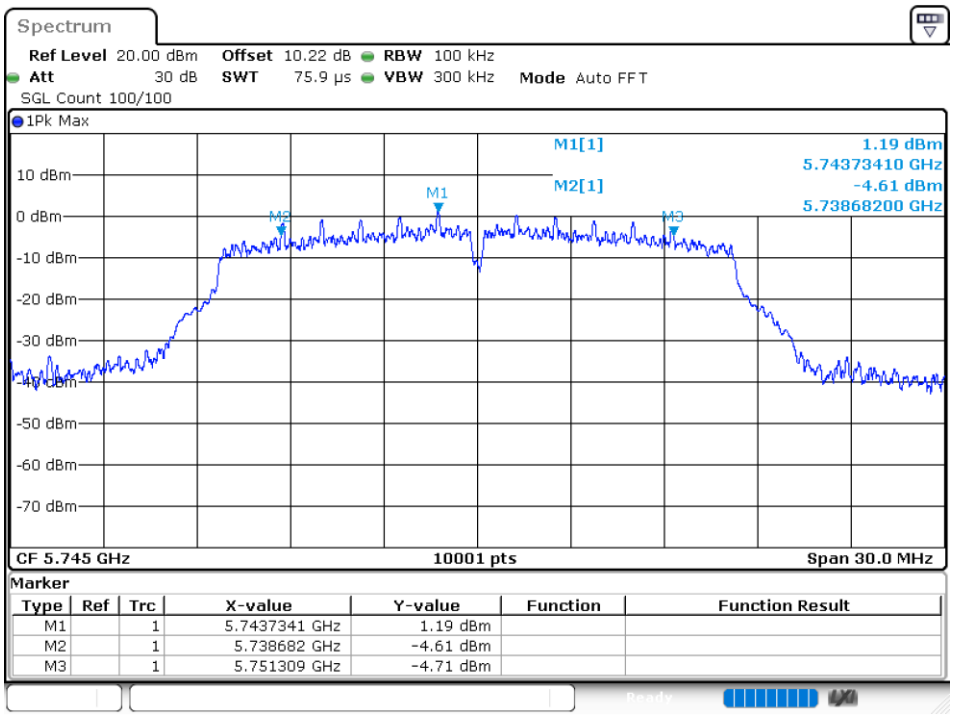
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.82	0.08	9.9	30	Pass
NVNT	a	5785	Ant1	10	0.08	10.08	30	Pass
NVNT	a	5825	Ant1	10.47	0.08	10.55	30	Pass
NVNT	n20	5745	Ant1	9.67	0.09	9.76	30	Pass
NVNT	n20	5785	Ant1	9.88	0.09	9.97	30	Pass
NVNT	n20	5825	Ant1	10.42	0.08	10.5	30	Pass
NVNT	n40	5755	Ant1	10.27	0.16	10.43	30	Pass
NVNT	n40	5795	Ant1	9.5	0.17	9.67	30	Pass
NVNT	ac20	5745	Ant1	9.71	0.08	9.79	30	Pass
NVNT	ac20	5785	Ant1	9.96	0.09	10.05	30	Pass
NVNT	ac20	5825	Ant1	10.49	0.08	10.57	30	Pass
NVNT	ac40	5755	Ant1	10.2	0.16	10.36	30	Pass
NVNT	ac40	5795	Ant1	9.42	0.16	9.58	30	Pass
NVNT	ac80	5775	Ant1	10.07	0.33	10.4	30	Pass

-6dB Bandwidth

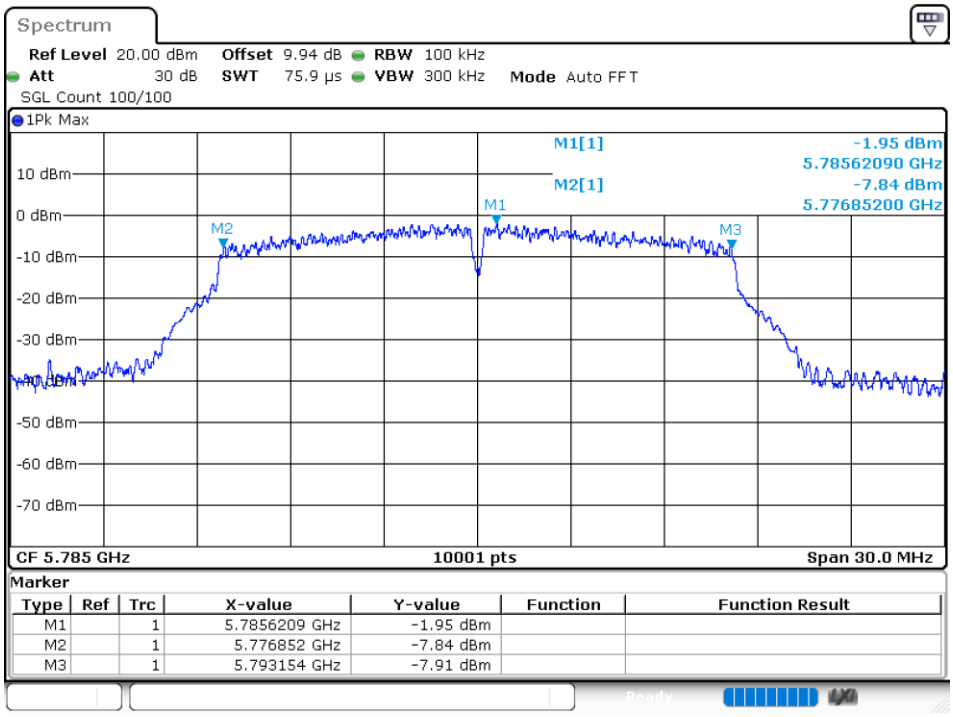
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	12.627	0.5	Pass
NVNT	a	5785	Ant1	16.302	0.5	Pass
NVNT	a	5825	Ant1	13.818	0.5	Pass
NVNT	n20	5745	Ant1	16.659	0.5	Pass
NVNT	n20	5785	Ant1	14.031	0.5	Pass
NVNT	n20	5825	Ant1	17.184	0.5	Pass
NVNT	n40	5755	Ant1	28.836	0.5	Pass
NVNT	n40	5795	Ant1	35.082	0.5	Pass
NVNT	ac20	5745	Ant1	14.253	0.5	Pass
NVNT	ac20	5785	Ant1	11.73	0.5	Pass
NVNT	ac20	5825	Ant1	15.519	0.5	Pass
NVNT	ac40	5755	Ant1	32.532	0.5	Pass
NVNT	ac40	5795	Ant1	30.06	0.5	Pass
NVNT	ac80	5775	Ant1	75.12	0.5	Pass

Test Graphs

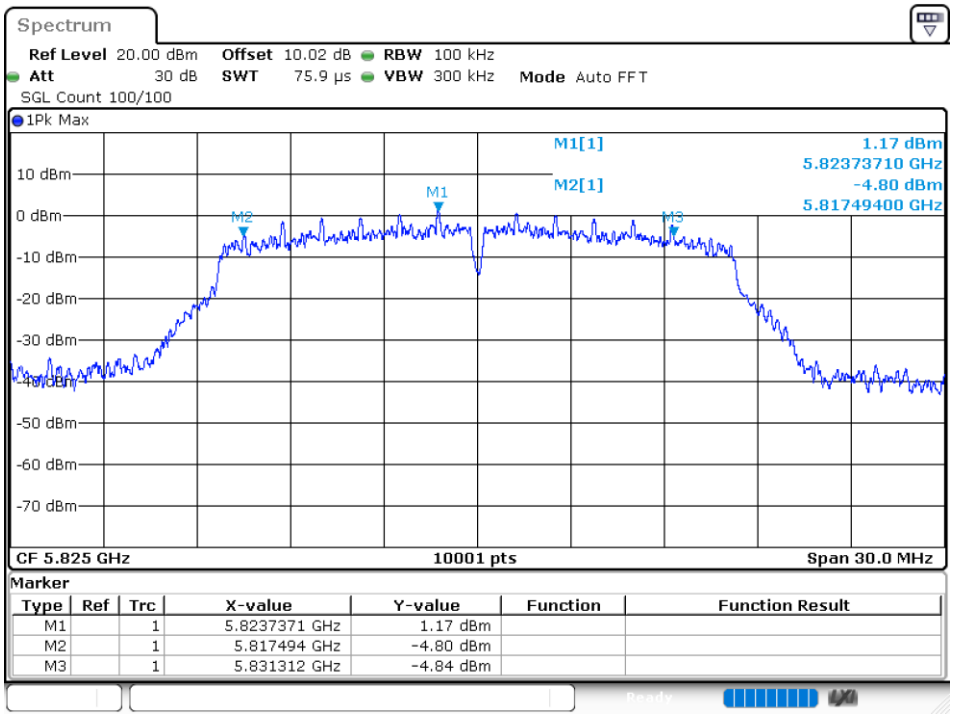
-6dB Bandwidth NVNT a 5745MHz Ant1



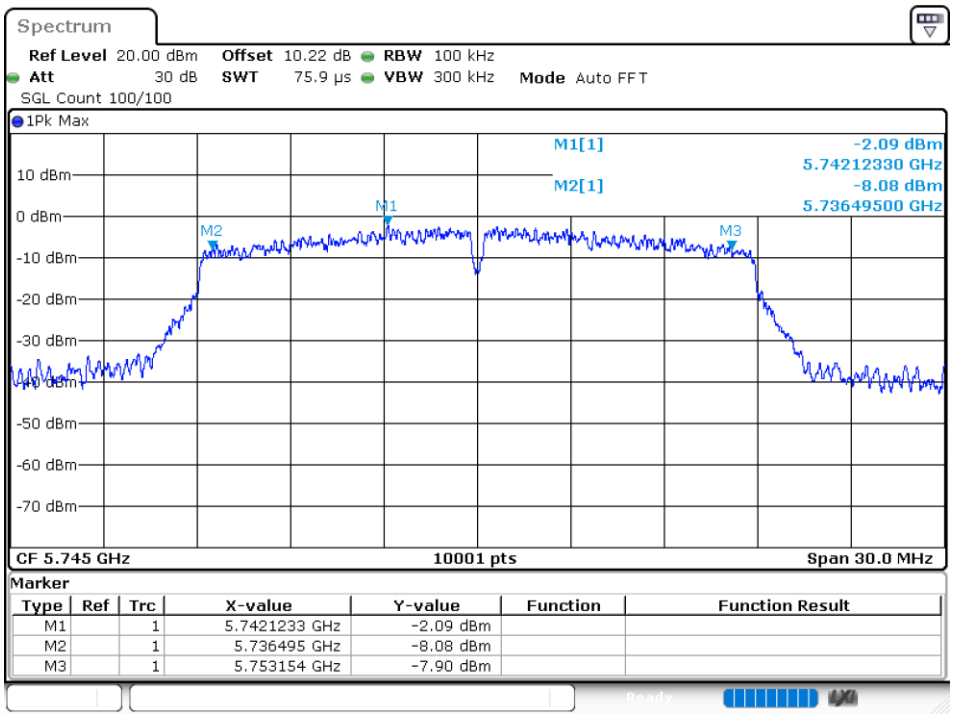
-6dB Bandwidth NVNT a 5785MHz Ant1



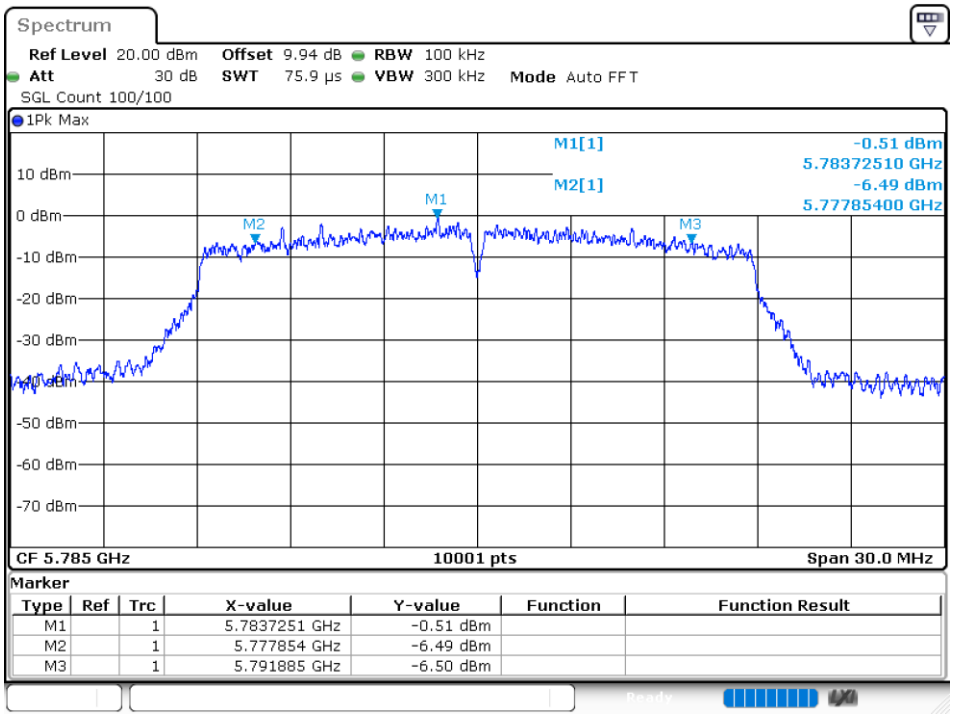
-6dB Bandwidth NVNT a 5825MHz Ant1



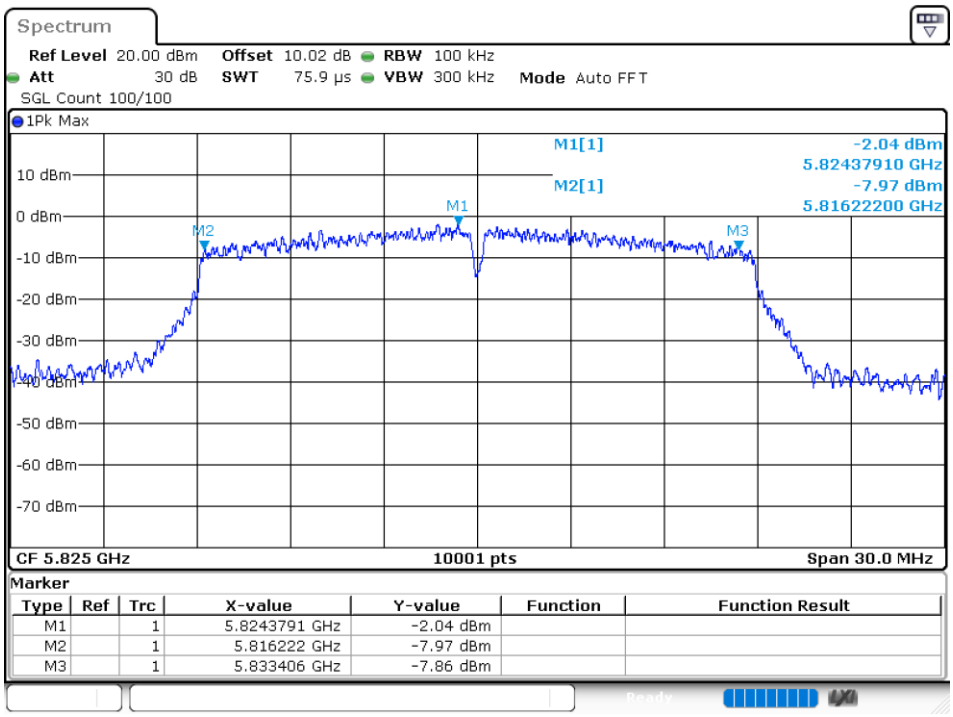
-6dB Bandwidth NVNT n20 5745MHz Ant1



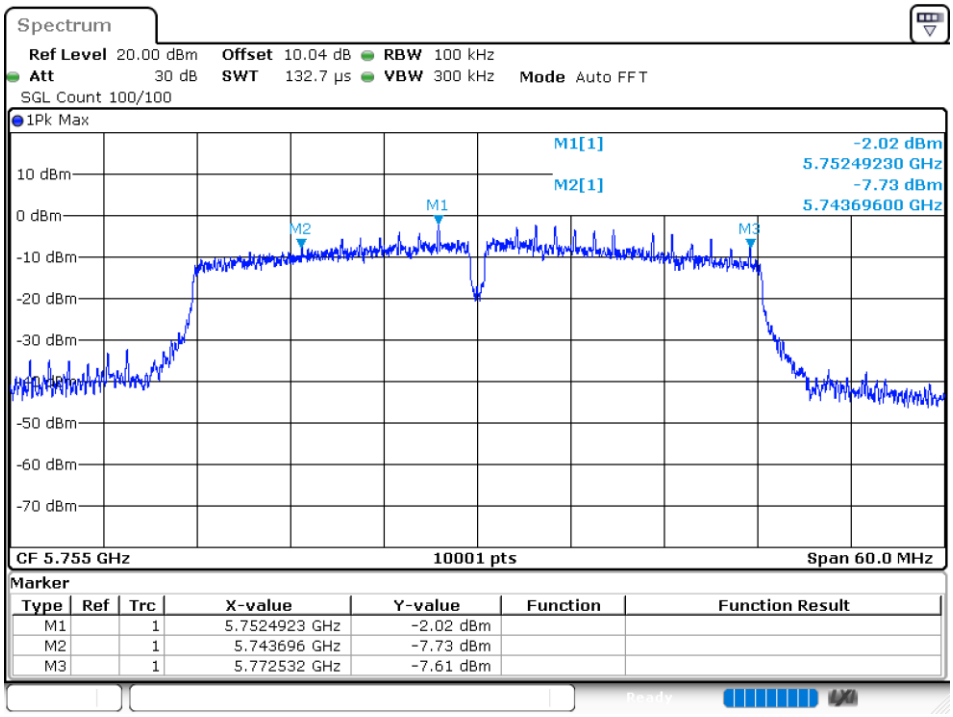
-6dB Bandwidth NVNT n20 5785MHz Ant1



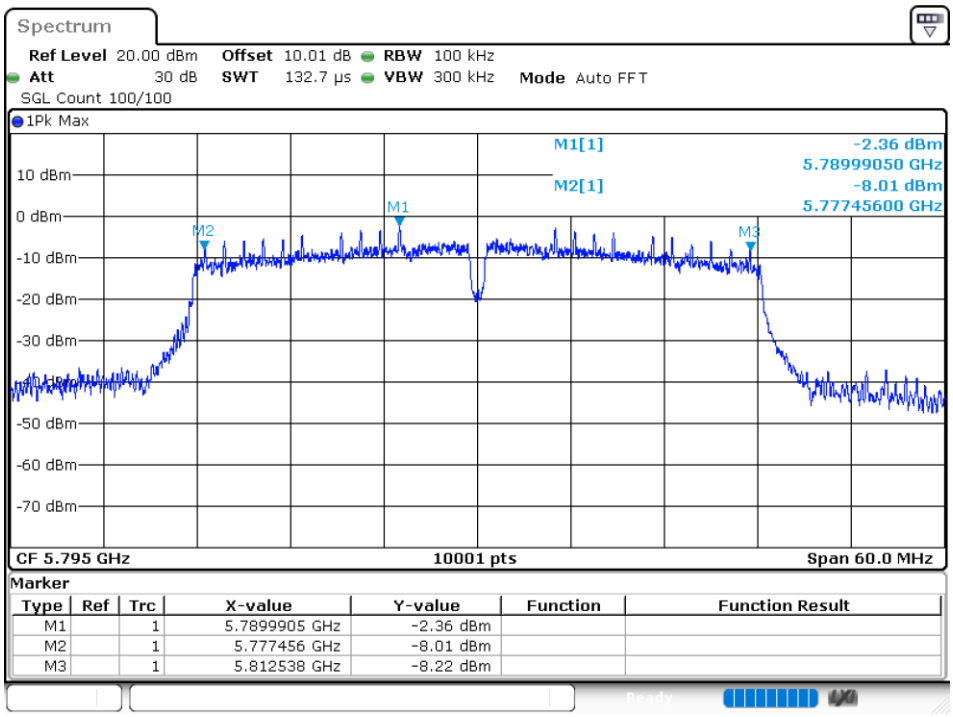
-6dB Bandwidth NVNT n20 5825MHz Ant1



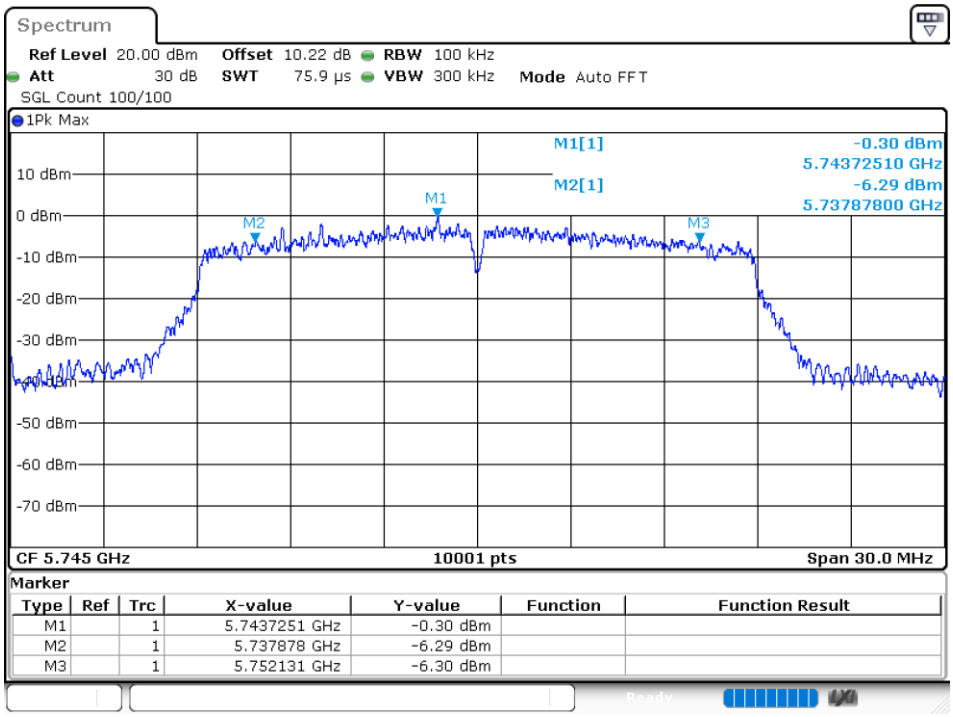
-6dB Bandwidth NVNT n40 5755MHz Ant1



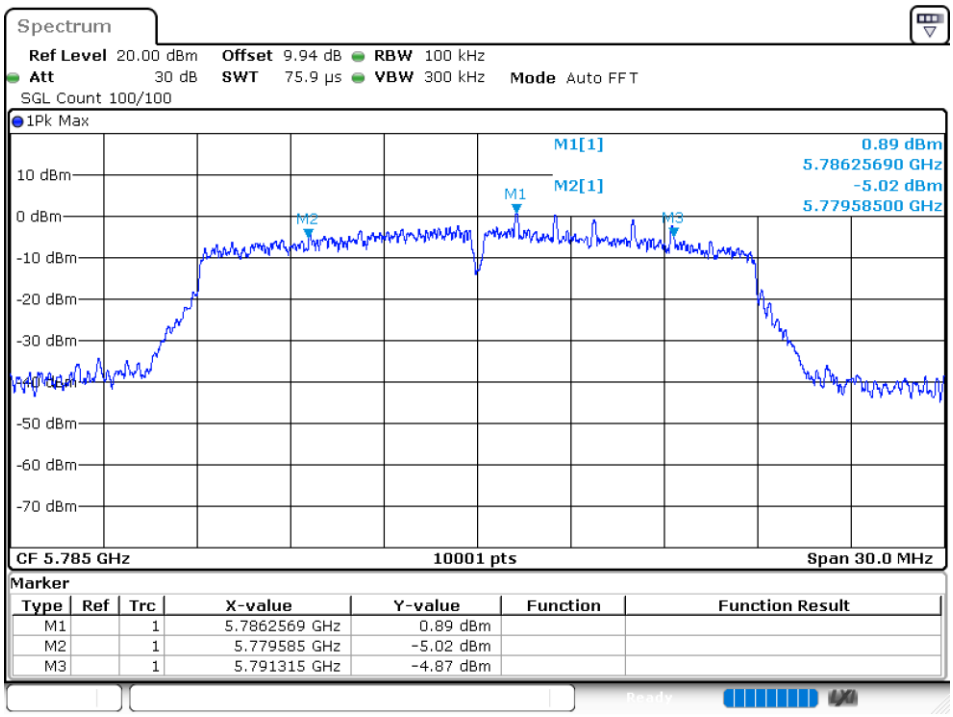
-6dB Bandwidth NVNT n40 5795MHz Ant1



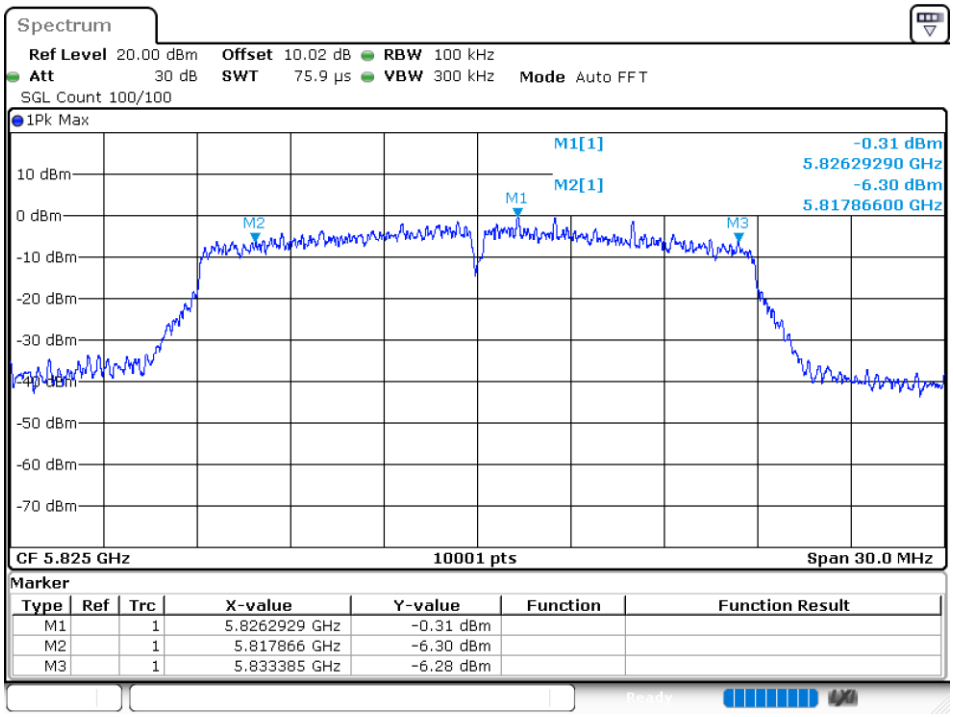
-6dB Bandwidth NVNT ac20 5745MHz Ant1



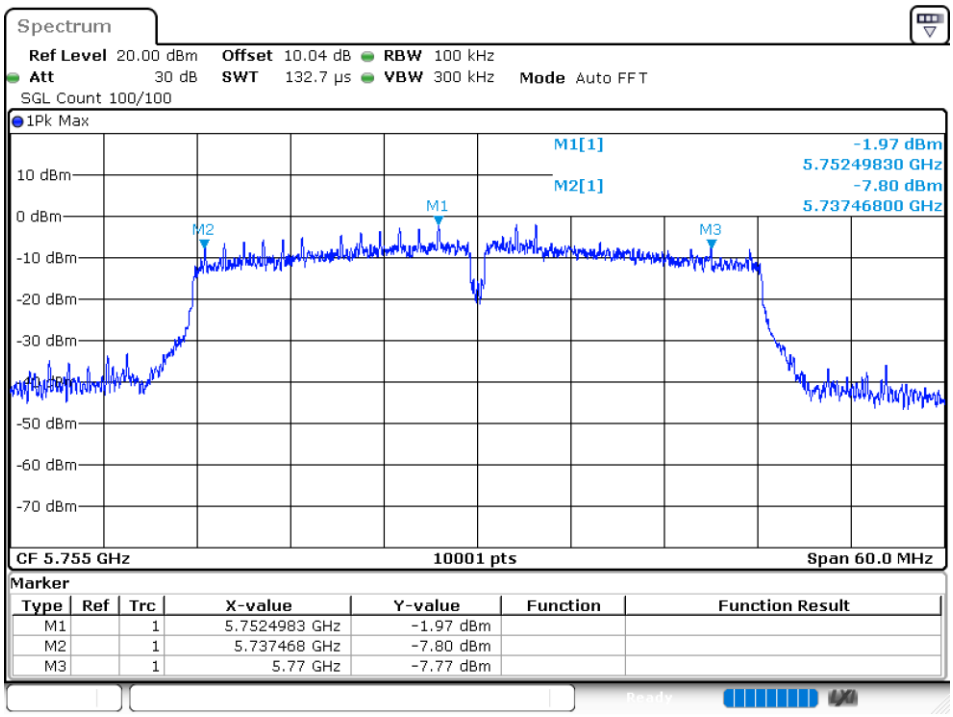
-6dB Bandwidth NVNT ac20 5785MHz Ant1



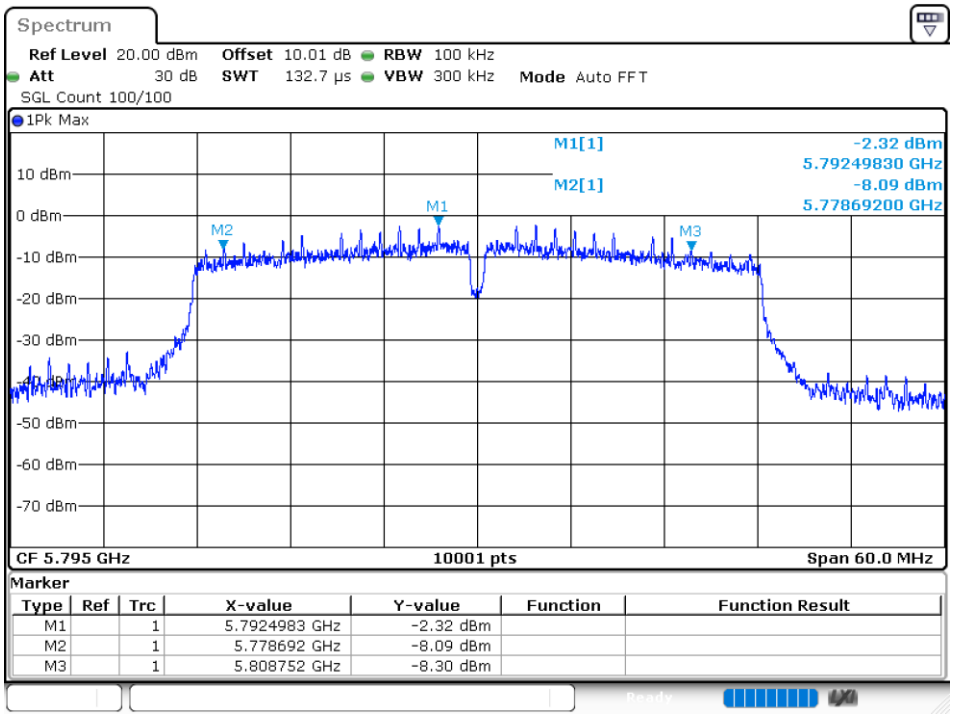
-6dB Bandwidth NVNT ac20 5825MHz Ant1



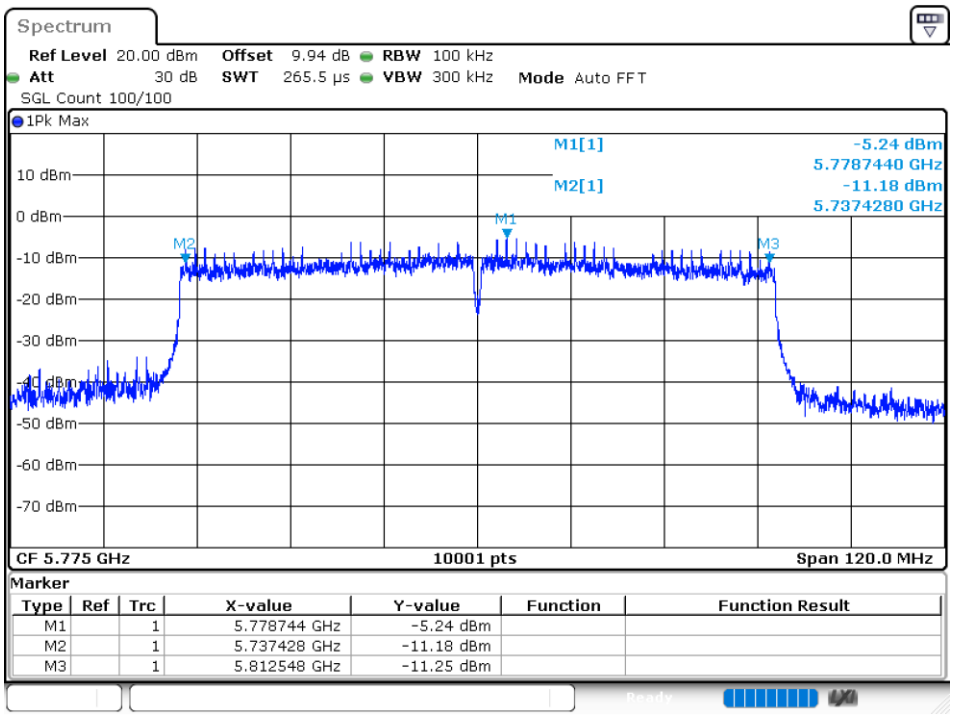
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



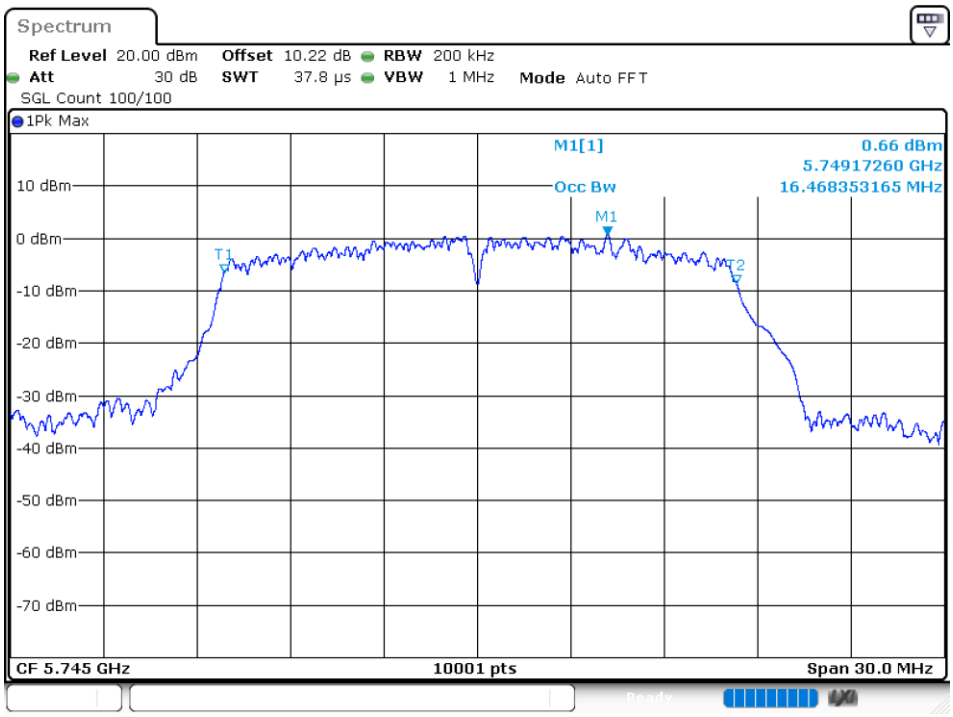
-6dB Bandwidth NVNT ac80 5775MHz Ant1



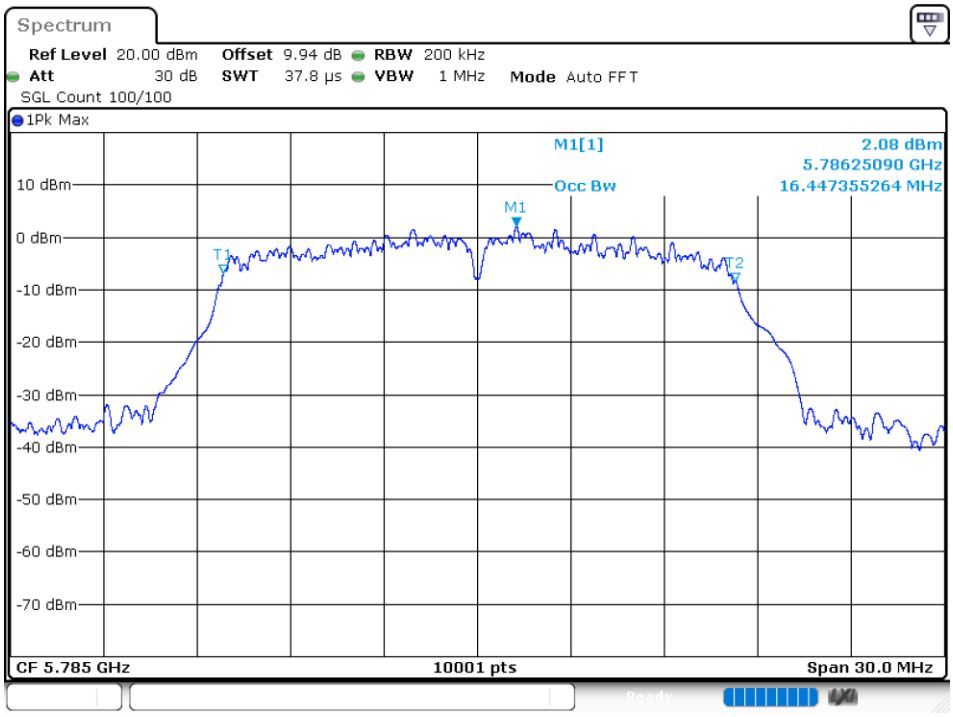
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.468
NVNT	a	5785	Ant1	16.447
NVNT	a	5825	Ant1	16.381
NVNT	n20	5745	Ant1	17.563
NVNT	n20	5785	Ant1	17.518
NVNT	n20	5825	Ant1	17.485
NVNT	n40	5755	Ant1	35.96
NVNT	n40	5795	Ant1	35.966
NVNT	ac20	5745	Ant1	17.488
NVNT	ac20	5785	Ant1	17.5
NVNT	ac20	5825	Ant1	17.476
NVNT	ac40	5755	Ant1	35.954
NVNT	ac40	5795	Ant1	35.942
NVNT	ac80	5775	Ant1	75.568

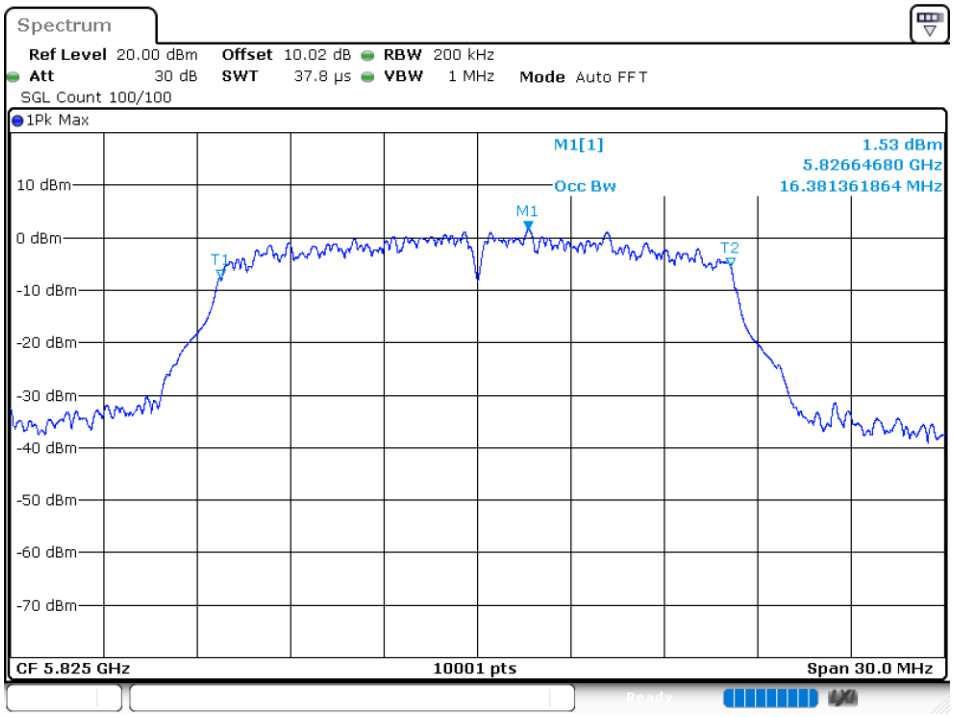
Test Graphs
OBW NVNT a 5745MHz Ant1



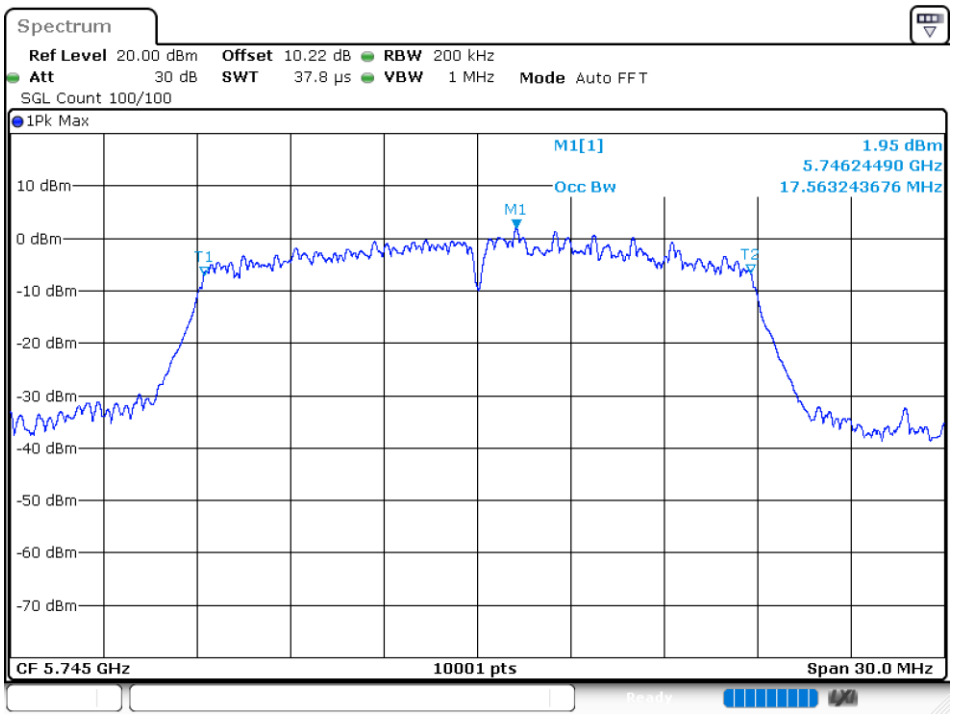
OBW NVNT a 5785MHz Ant1



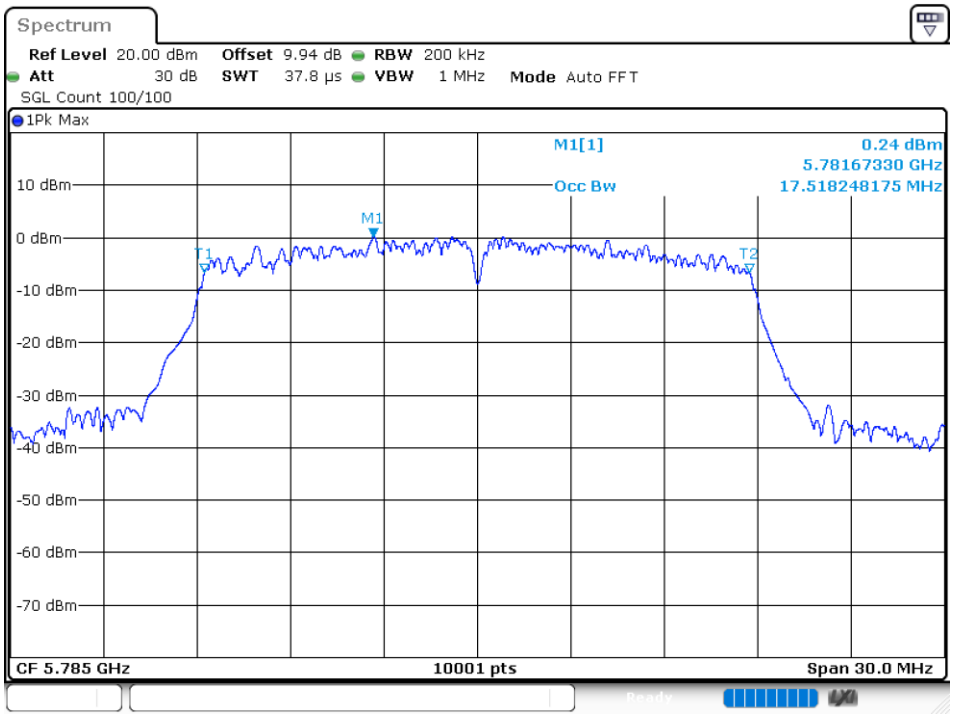
OBW NVNT a 5825MHz Ant1



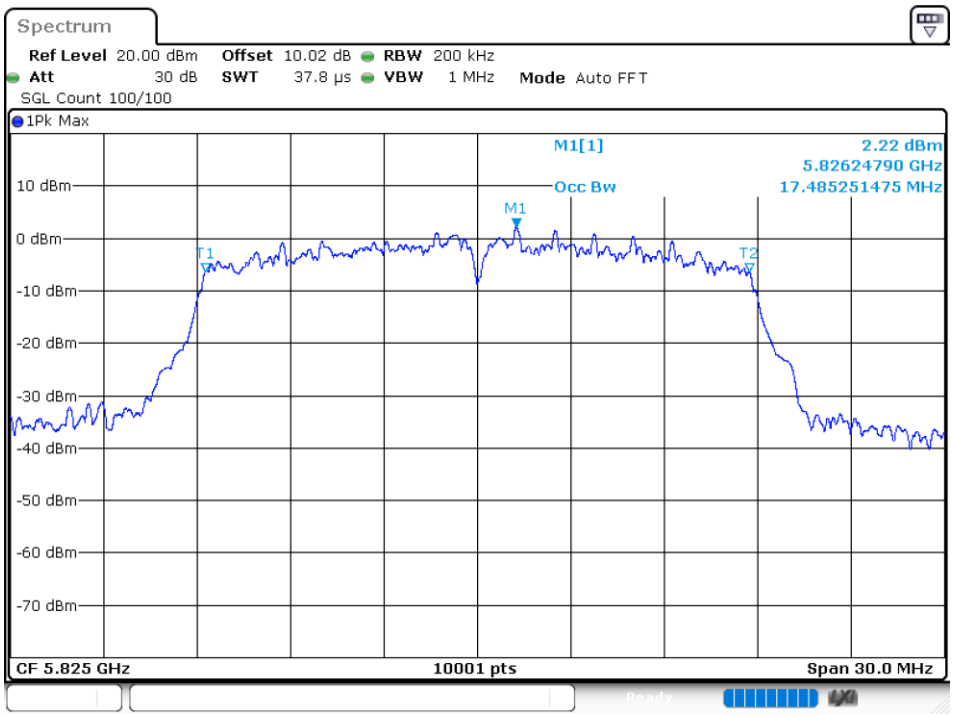
OBW NVNT n20 5745MHz Ant1



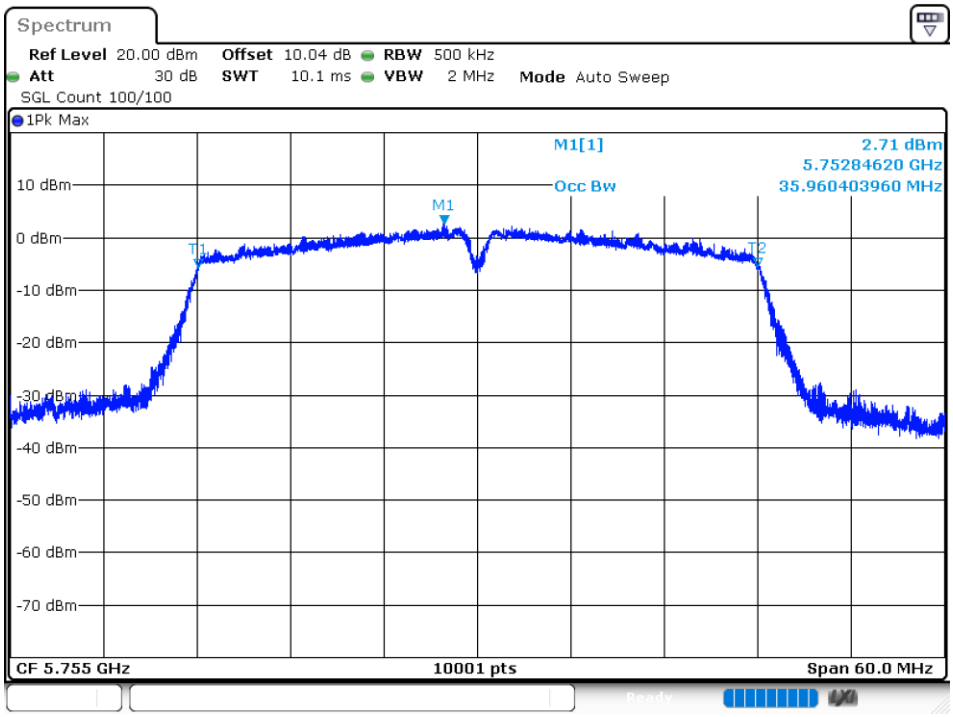
OBW NVNT n20 5785MHz Ant1



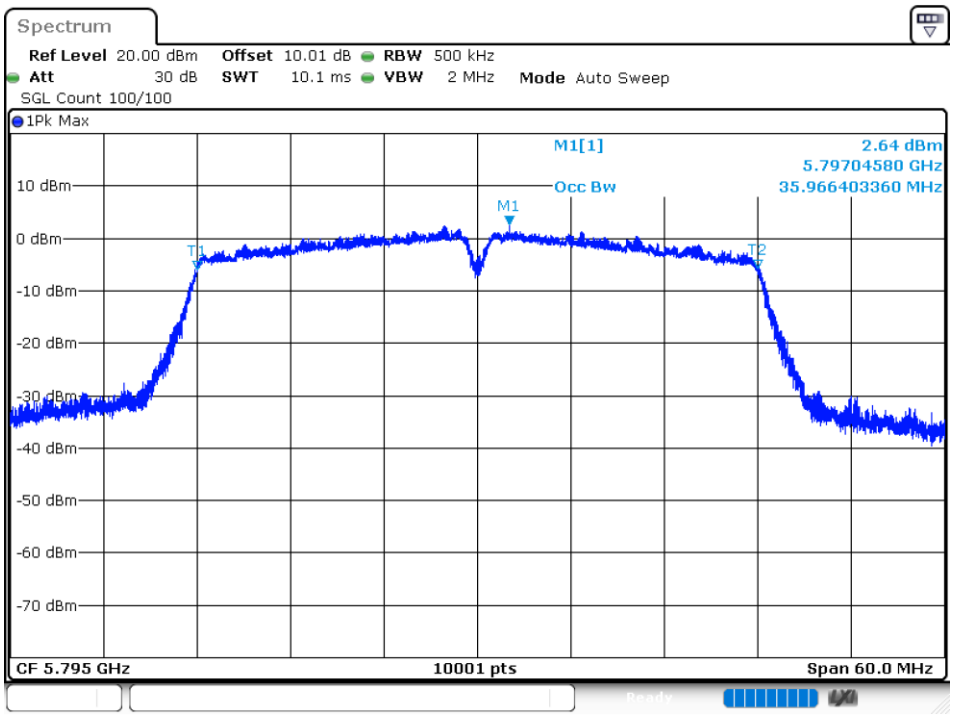
OBW NVNT n20 5825MHz Ant1



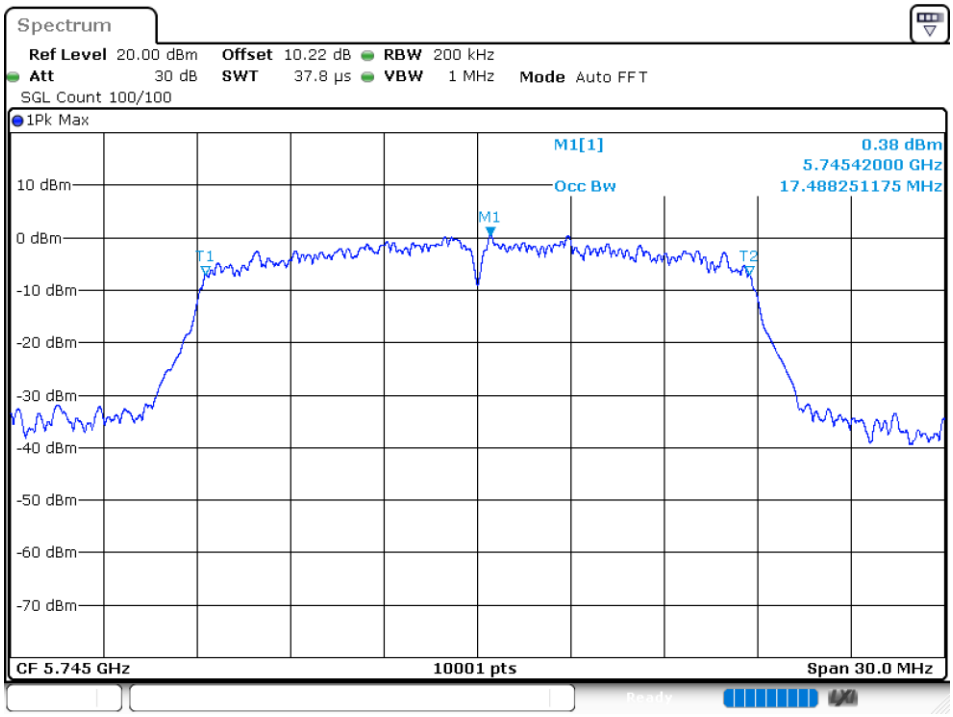
OBW NVNT n40 5755MHz Ant1



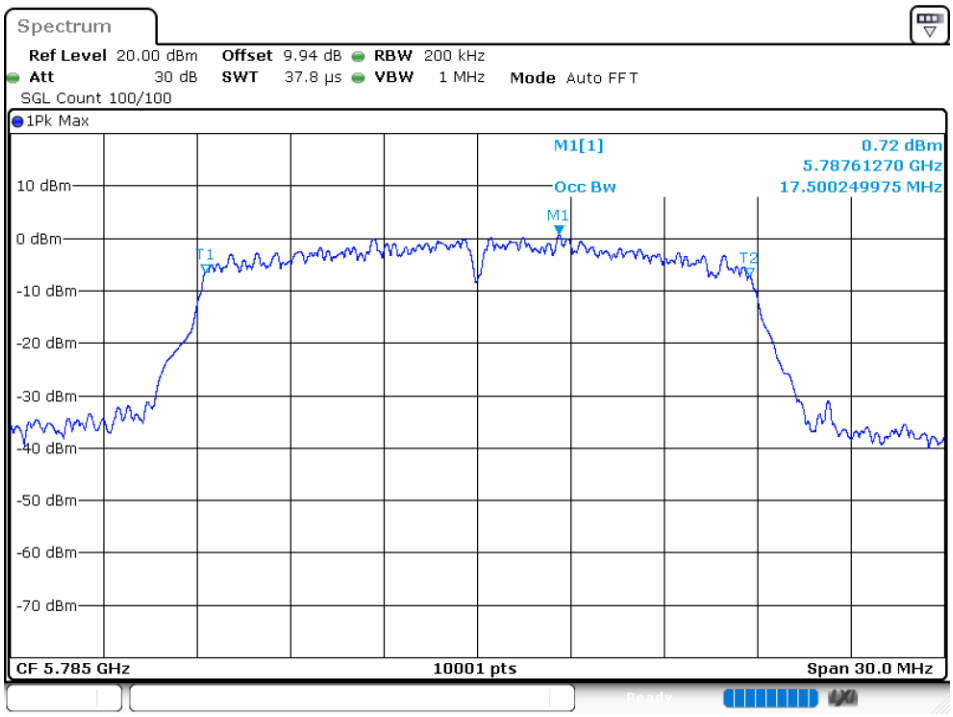
OBW NVNT n40 5795MHz Ant1



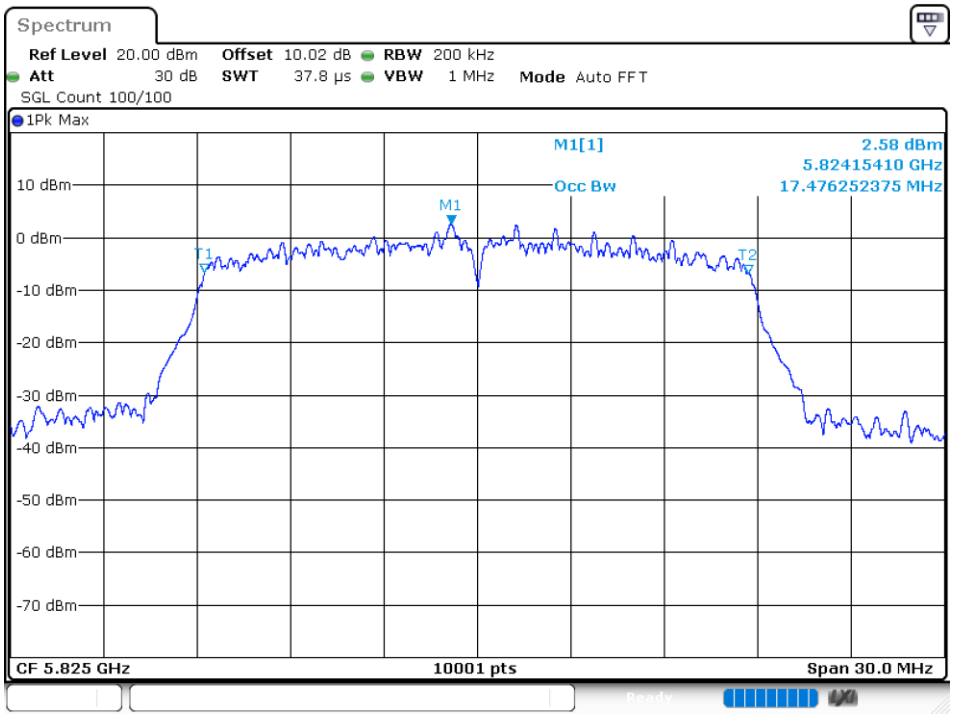
OBW NVNT ac20 5745MHz Ant1



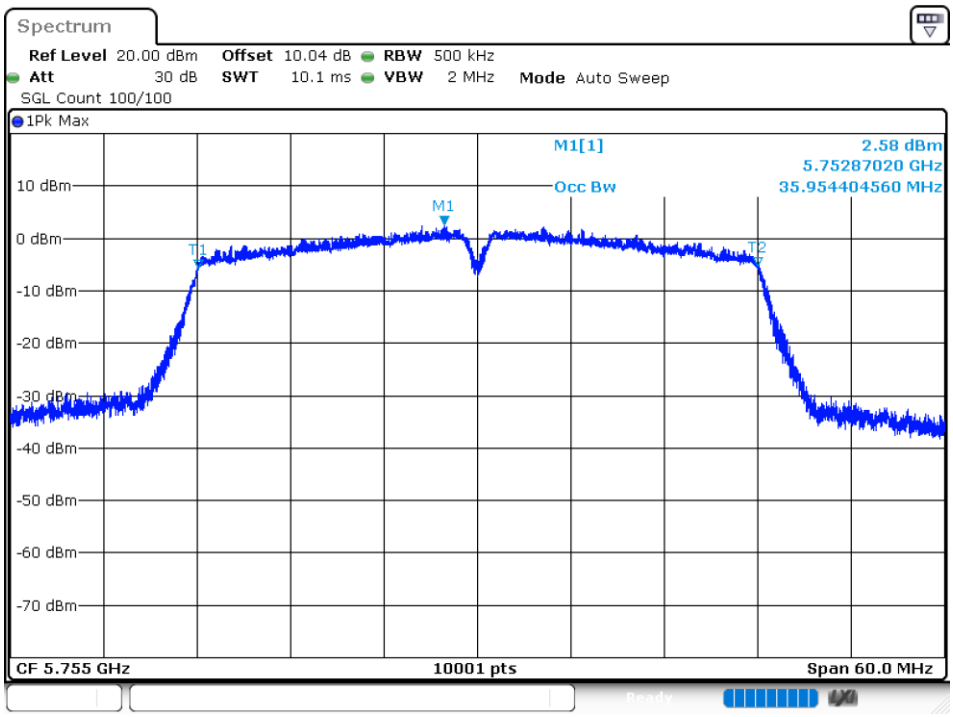
OBW NVNT ac20 5785MHz Ant1



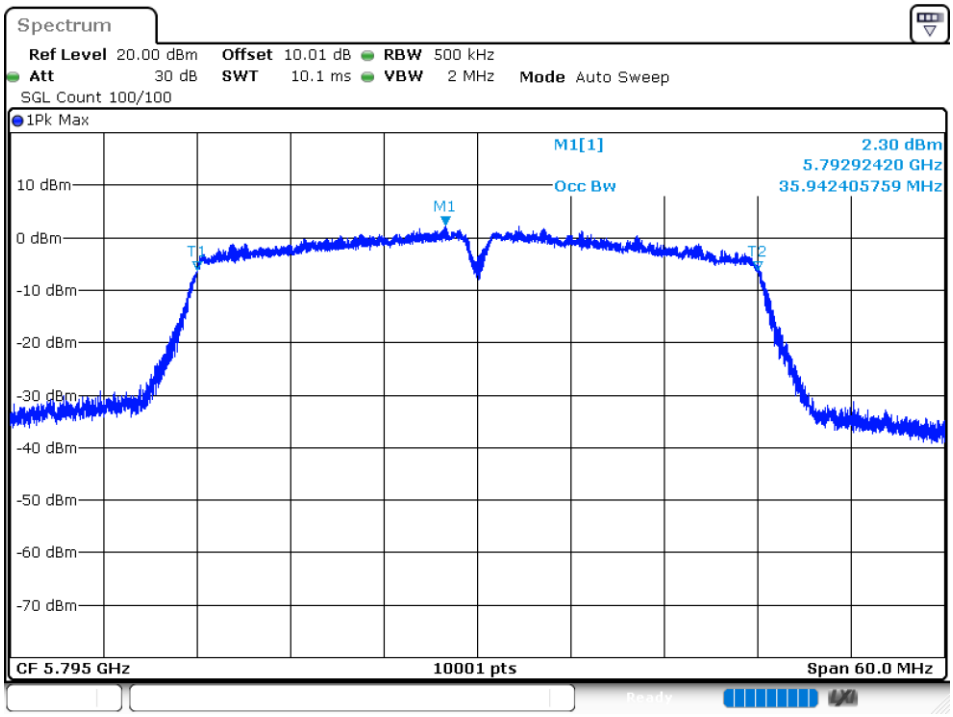
OBW NVNT ac20 5825MHz Ant1



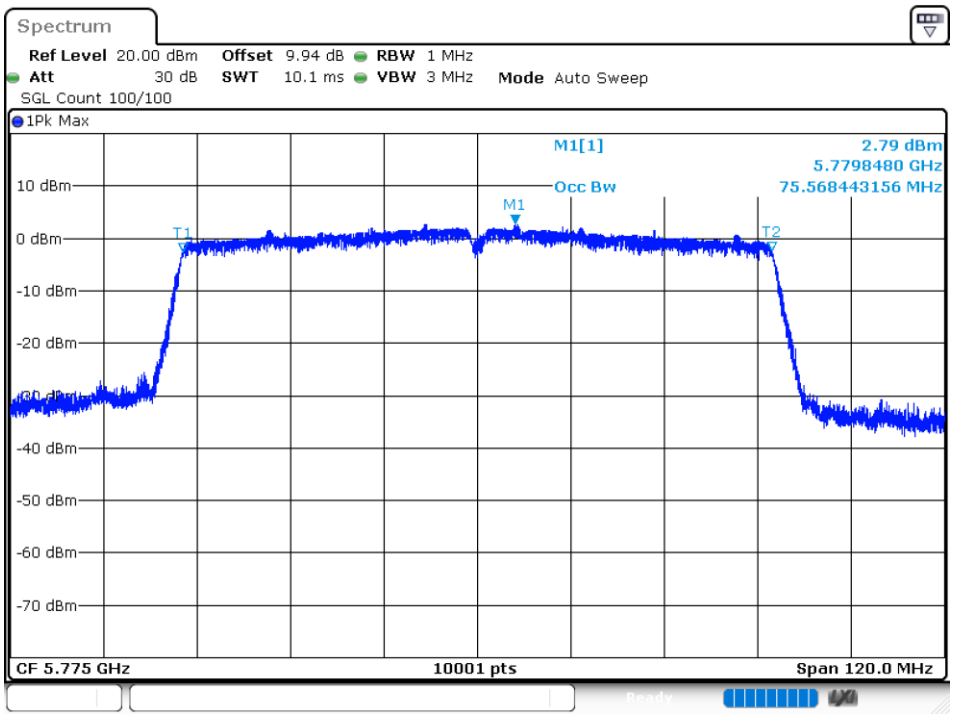
OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



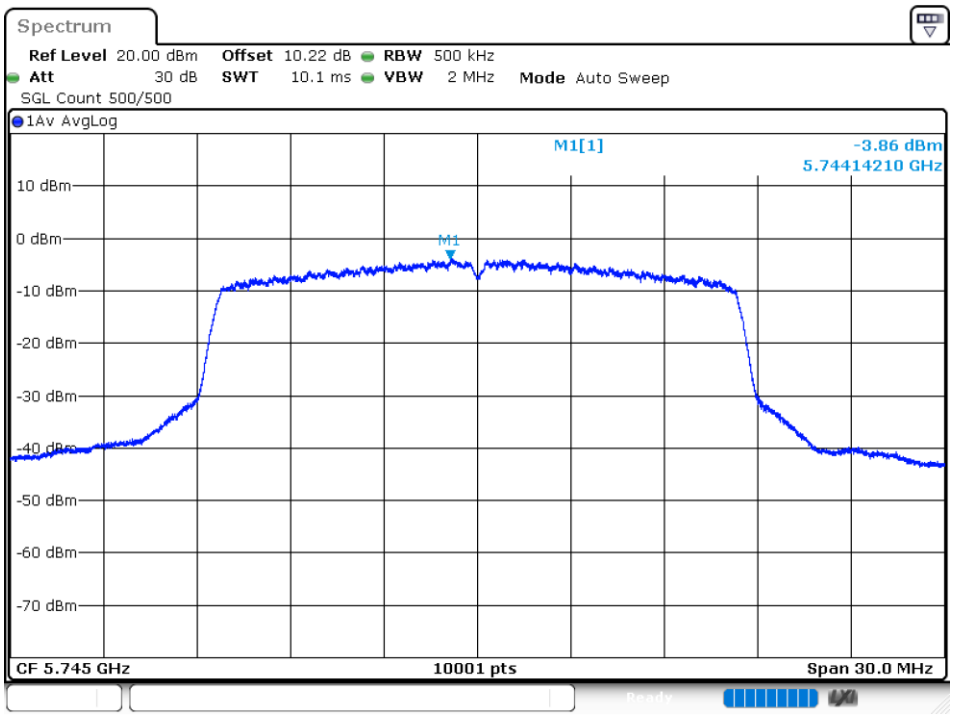
OBW NVNT ac80 5775MHz Ant1



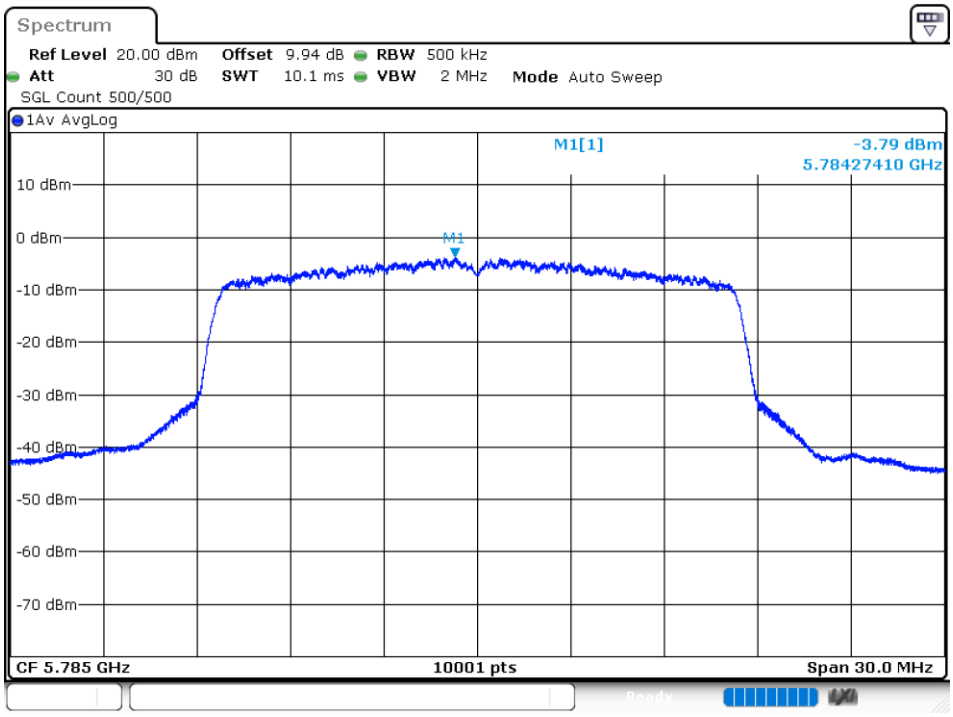
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-3.86	0.08	-3.78	30	Pass
NVNT	a	5785	Ant1	-3.79	0.08	-3.71	30	Pass
NVNT	a	5825	Ant1	-3.32	0.08	-3.24	30	Pass
NVNT	n20	5745	Ant1	-4.35	0.09	-4.26	30	Pass
NVNT	n20	5785	Ant1	-4.42	0.09	-4.33	30	Pass
NVNT	n20	5825	Ant1	-4.16	0.08	-4.08	30	Pass
NVNT	n40	5755	Ant1	-8.3	0.16	-8.14	30	Pass
NVNT	n40	5795	Ant1	-8.58	0.17	-8.41	30	Pass
NVNT	ac20	5745	Ant1	-4.59	0.08	-4.51	30	Pass
NVNT	ac20	5785	Ant1	-4.44	0.09	-4.35	30	Pass
NVNT	ac20	5825	Ant1	-4.23	0.08	-4.15	30	Pass
NVNT	ac40	5755	Ant1	-8.12	0.16	-7.96	30	Pass
NVNT	ac40	5795	Ant1	-8.77	0.16	-8.61	30	Pass
NVNT	ac80	5775	Ant1	-13.19	0.33	-12.86	30	Pass

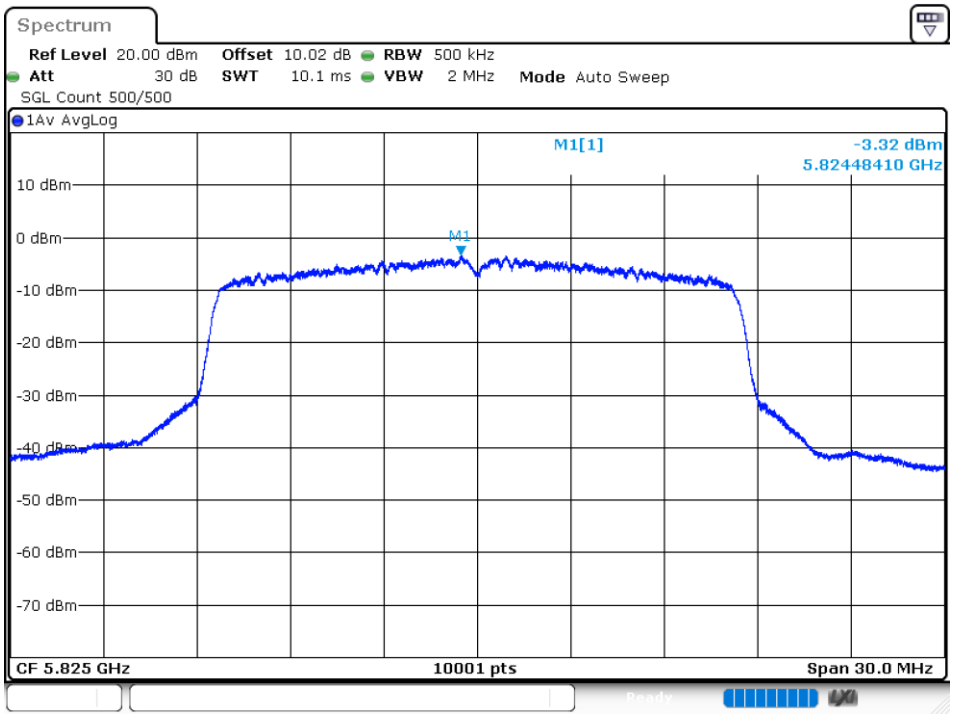
Test Graphs
PSD NVNT a 5745MHz Ant1



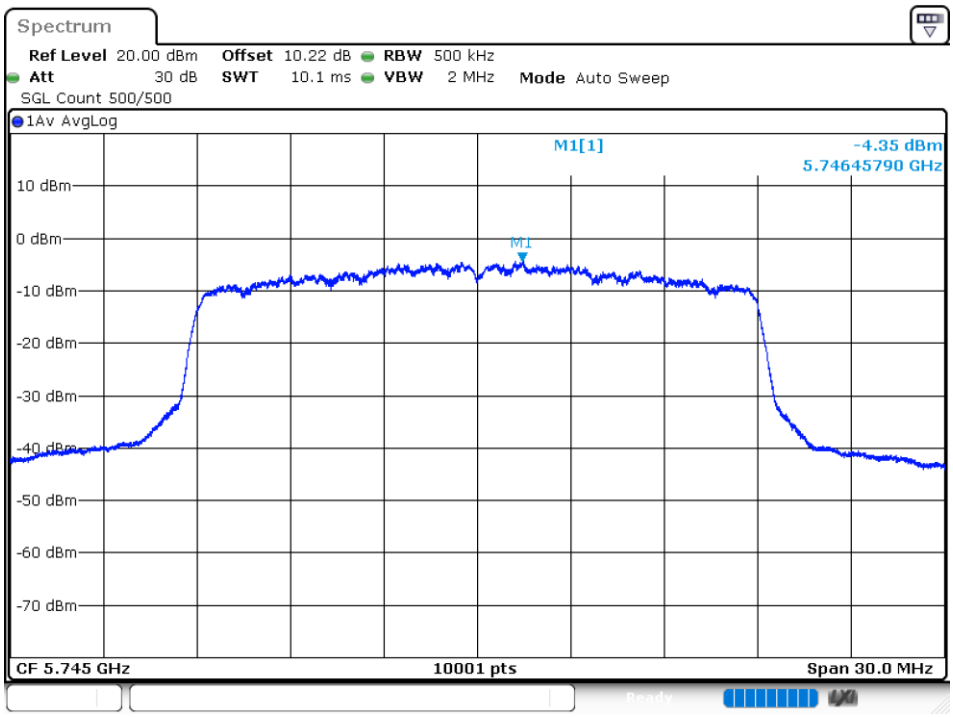
PSD NVNT a 5785MHz Ant1



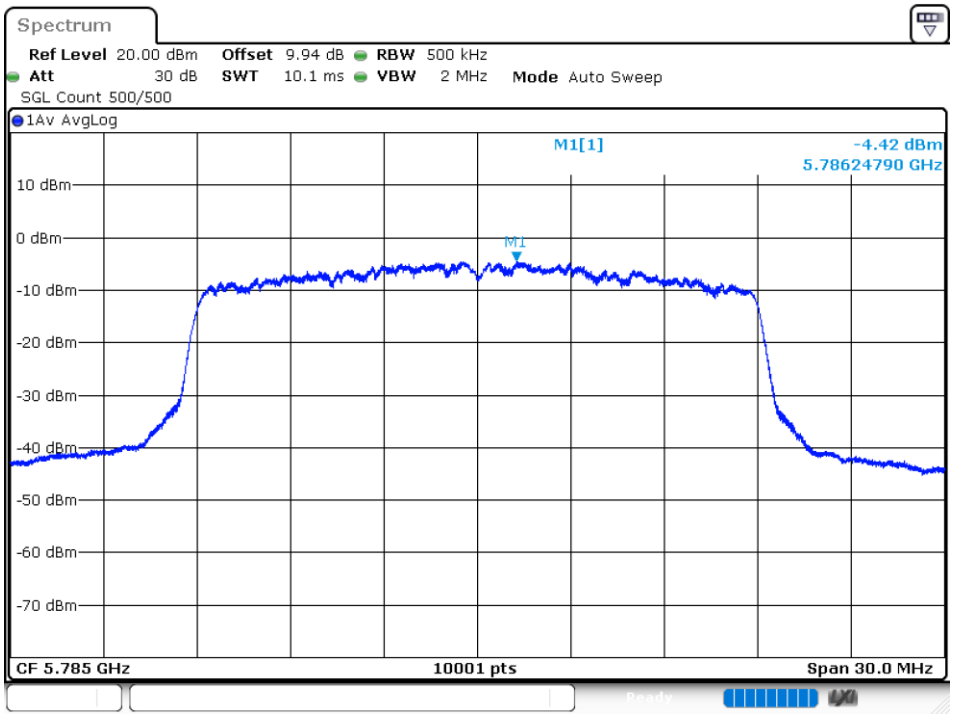
PSD NVNT a 5825MHz Ant1



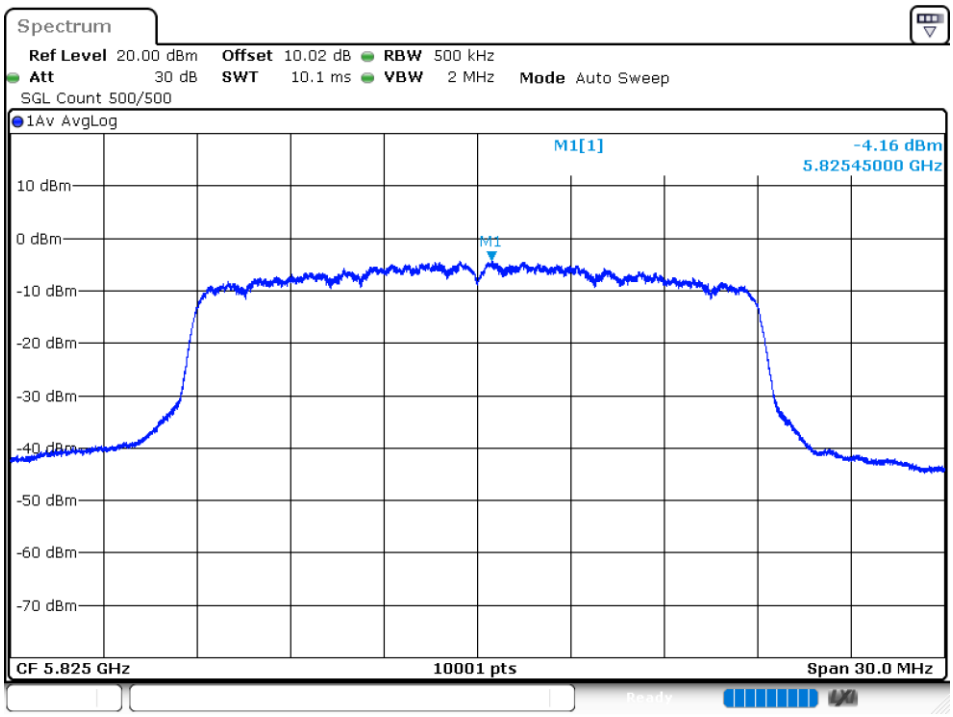
PSD NVNT n20 5745MHz Ant1



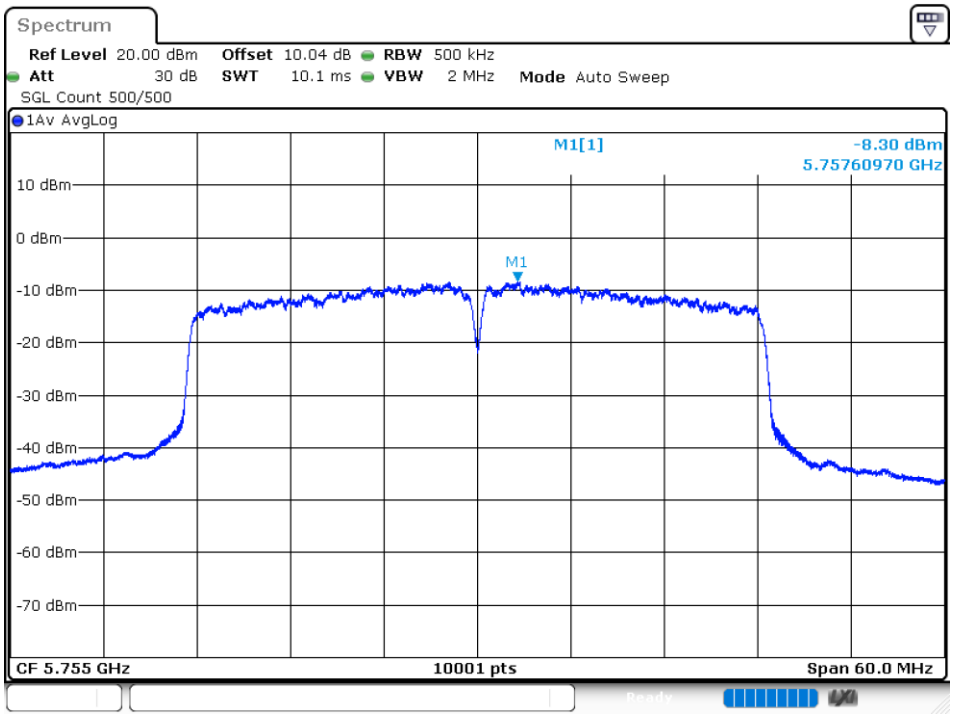
PSD NVNT n20 5785MHz Ant1



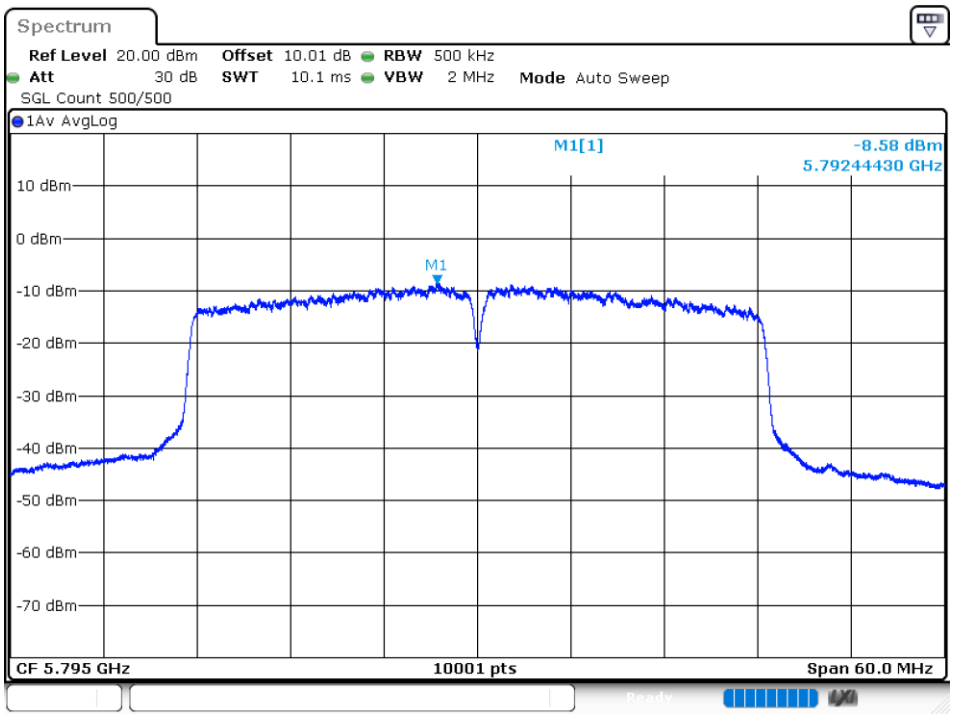
PSD NVNT n20 5825MHz Ant1



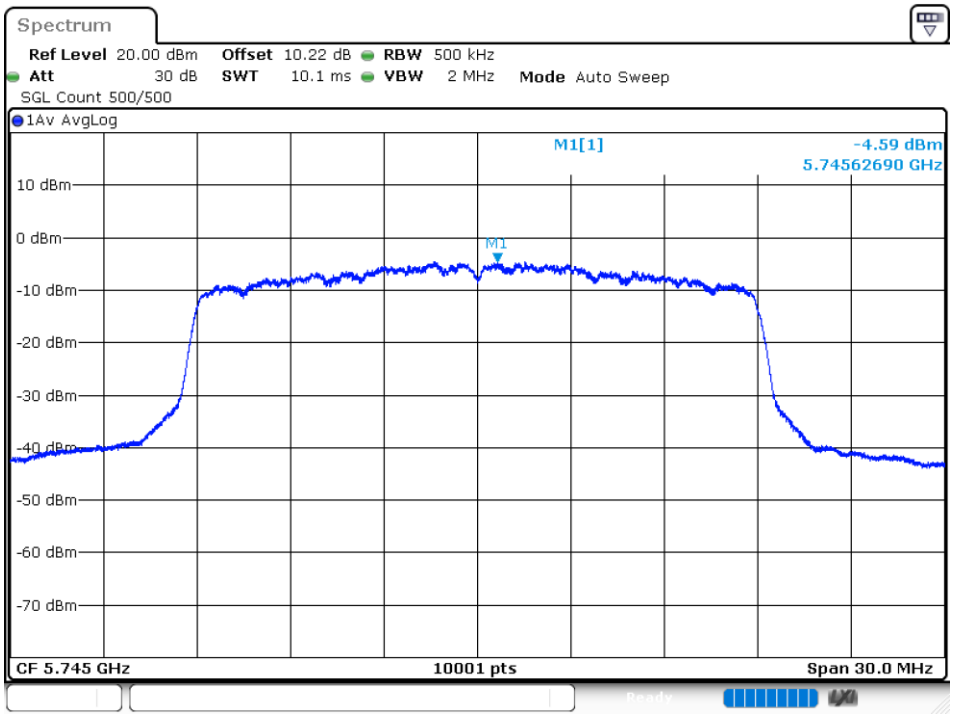
PSD NVNT n40 5755MHz Ant1



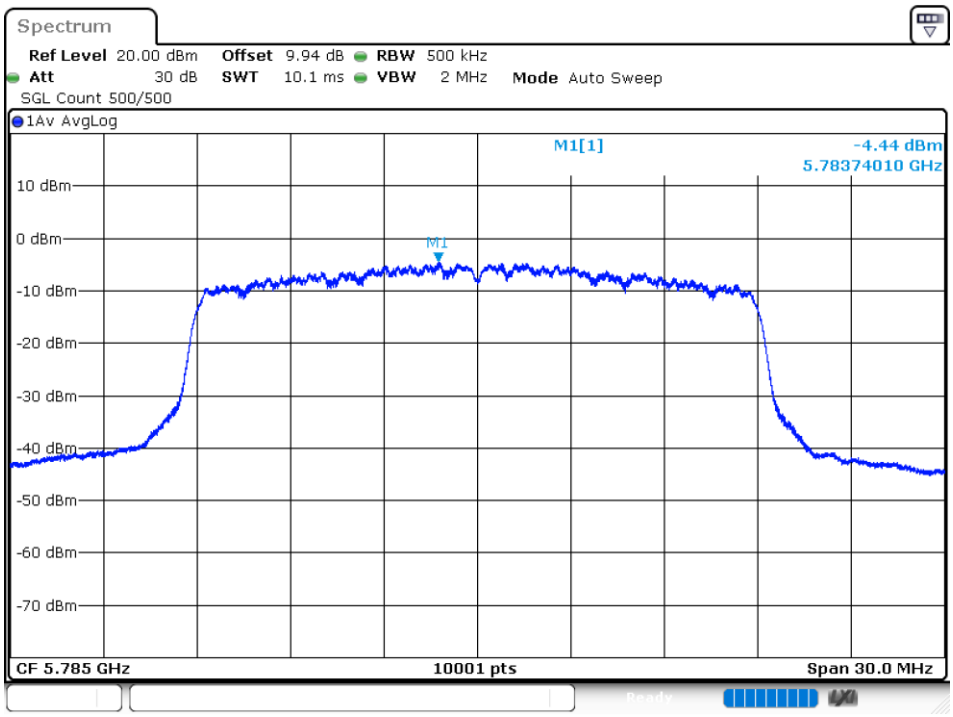
PSD NVNT n40 5795MHz Ant1



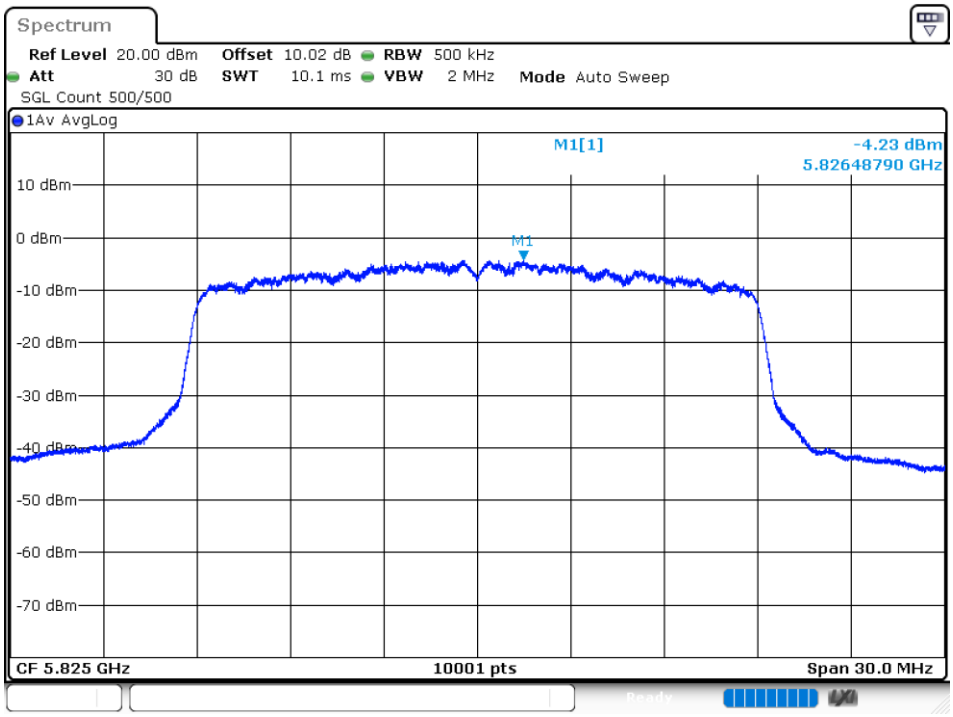
PSD NVNT ac20 5745MHz Ant1



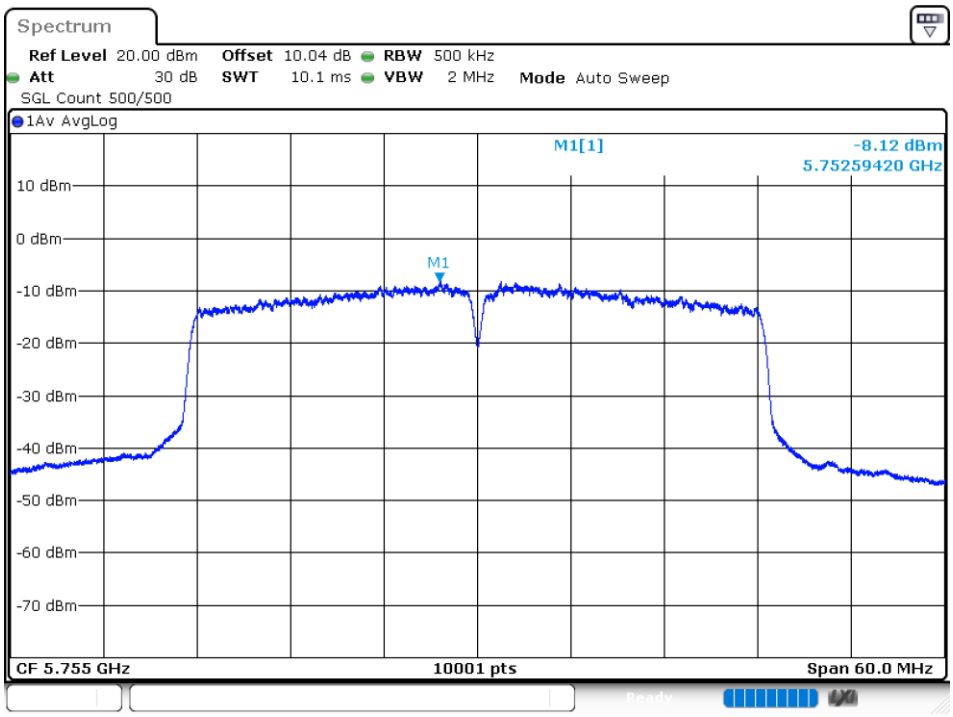
PSD NVNT ac20 5785MHz Ant1



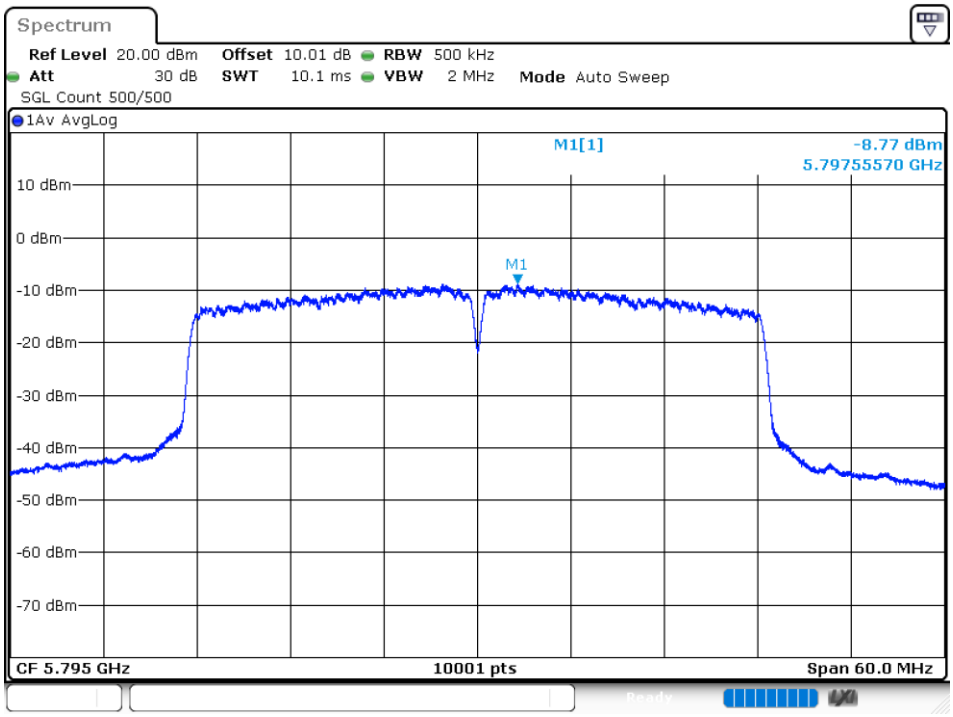
PSD NVNT ac20 5825MHz Ant1



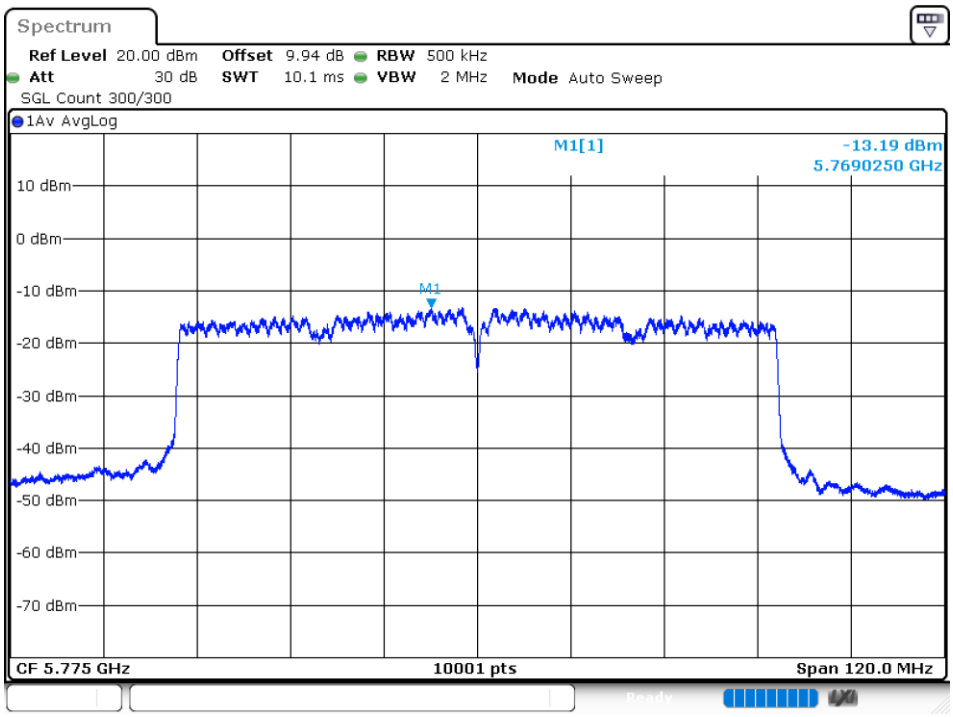
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1

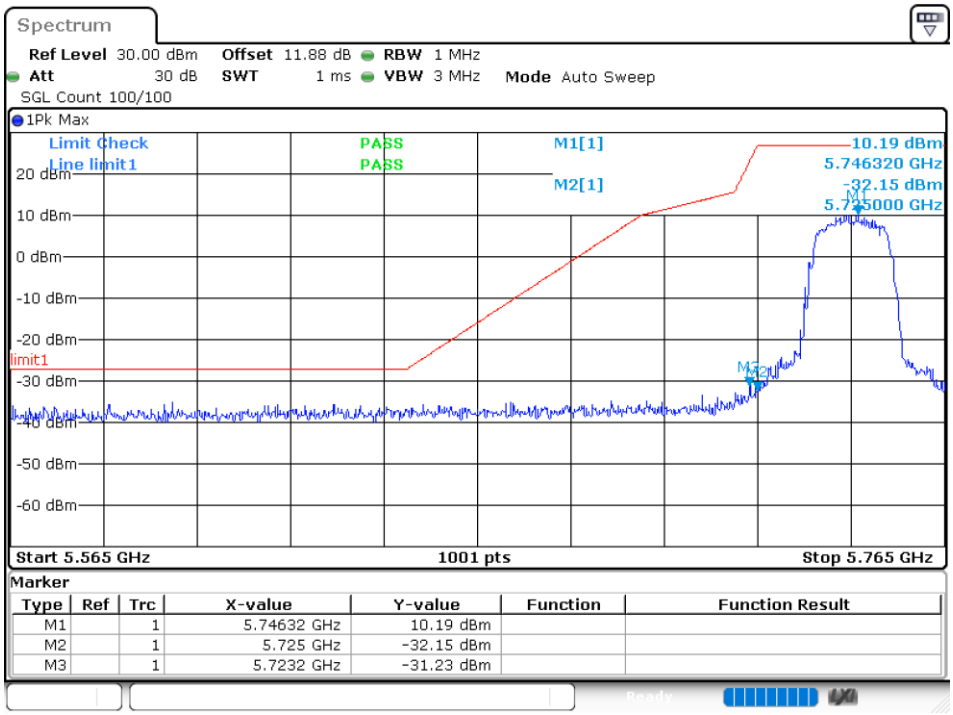


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-31.23	Pass
NVNT	a	5825	Ant1	-33.01	Pass
NVNT	n20	5745	Ant1	-26.06	Pass
NVNT	n20	5825	Ant1	-32.77	Pass
NVNT	n40	5755	Ant1	-28.6	Pass
NVNT	n40	5795	Ant1	-32.98	Pass
NVNT	ac20	5745	Ant1	-27.58	Pass
NVNT	ac20	5825	Ant1	-32.28	Pass
NVNT	ac40	5755	Ant1	-27.66	Pass
NVNT	ac40	5795	Ant1	-33.6	Pass
NVNT	ac80	5775	Ant1	-32.68	Pass

Test Graphs

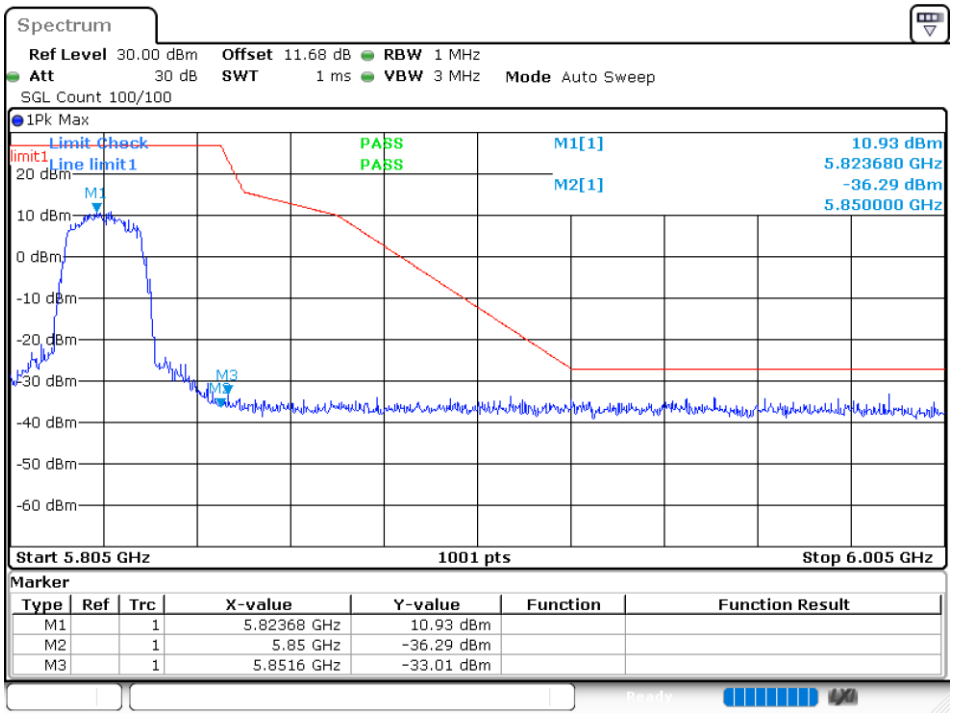
Band Edge NVNT a 5745MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.74632 GHz	10.19 dBm		
M2		1	5.725 GHz	-32.15 dBm		
M3		1	5.7232 GHz	-31.23 dBm		

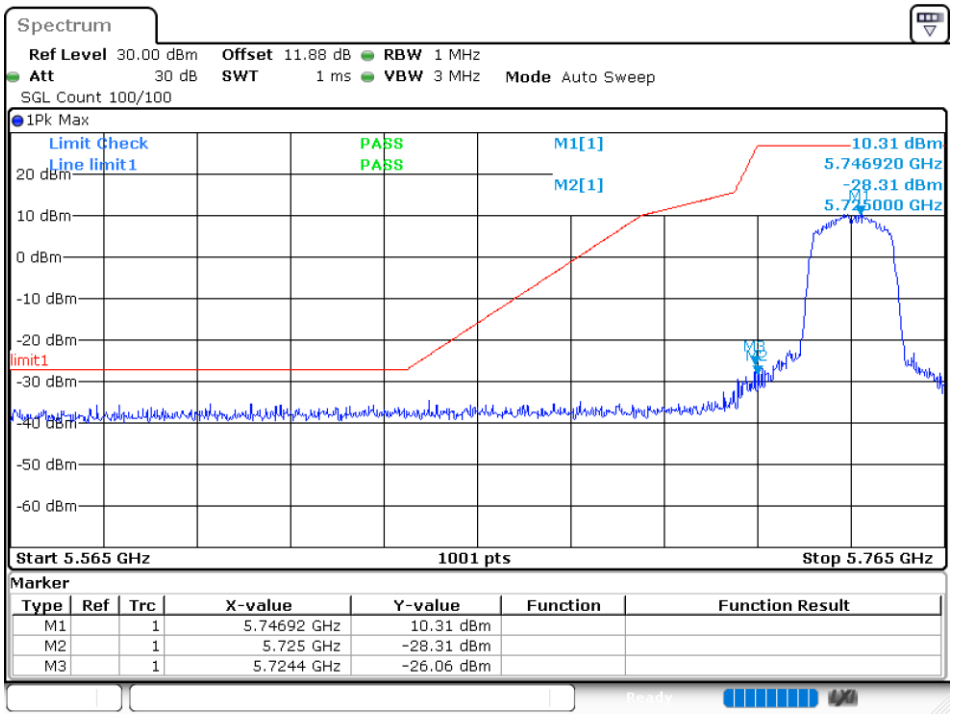
Band Edge NVNT a 5825MHz High Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.82368 GHz	10.93 dBm		
M2		1	5.85 GHz	-36.29 dBm		
M3		1	5.8516 GHz	-33.01 dBm		

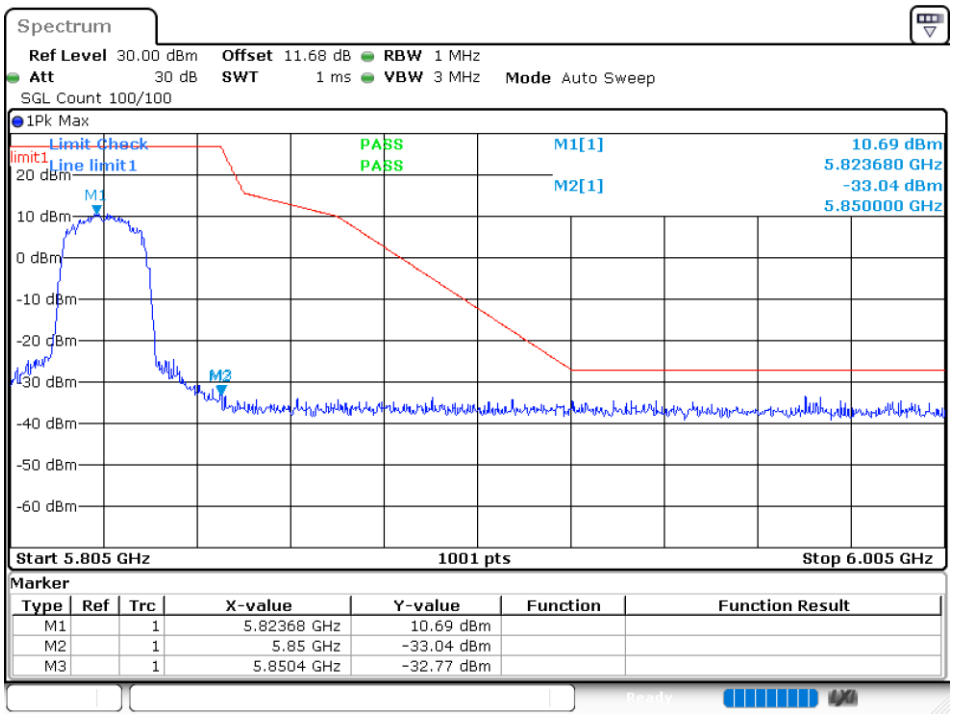
Band Edge NVNT n20 5745MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.74692 GHz	10.31 dBm		
M2		1	5.725 GHz	-28.31 dBm		
M3		1	5.7244 GHz	-26.06 dBm		

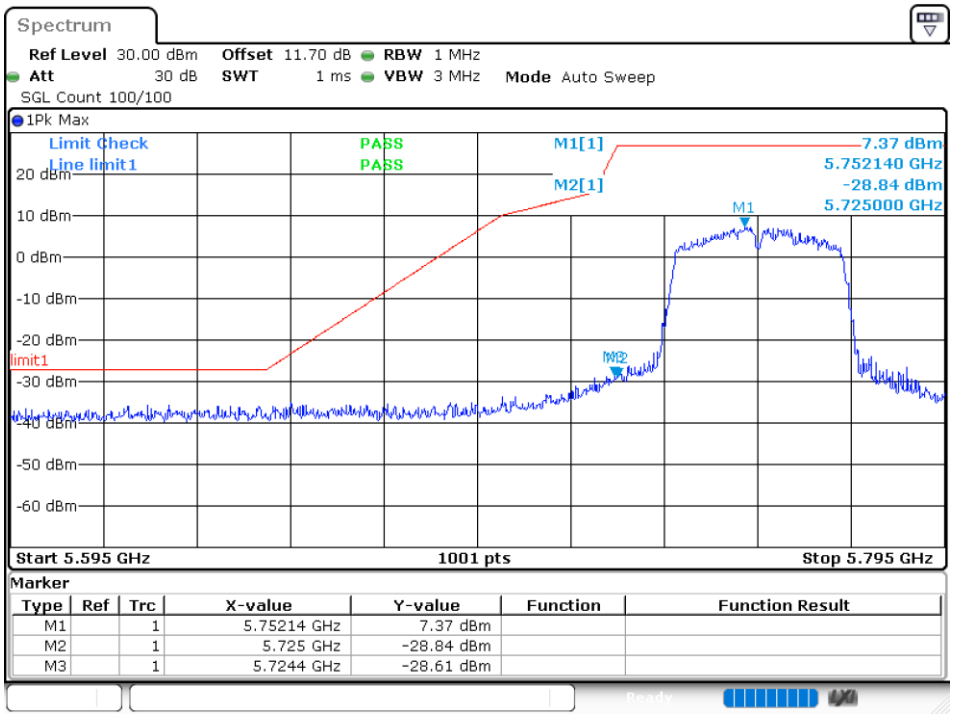
Band Edge NVNT n20 5825MHz High Ant1



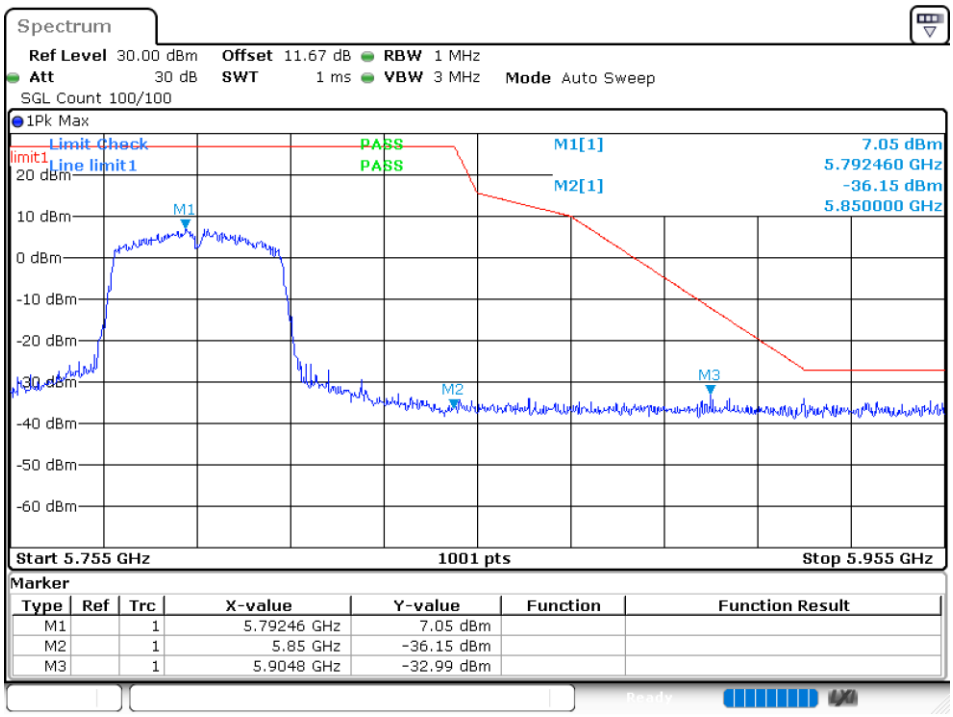
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.82368 GHz	10.69 dBm		
M2		1	5.85 GHz	-33.04 dBm		
M3		1	5.8504 GHz	-32.77 dBm		

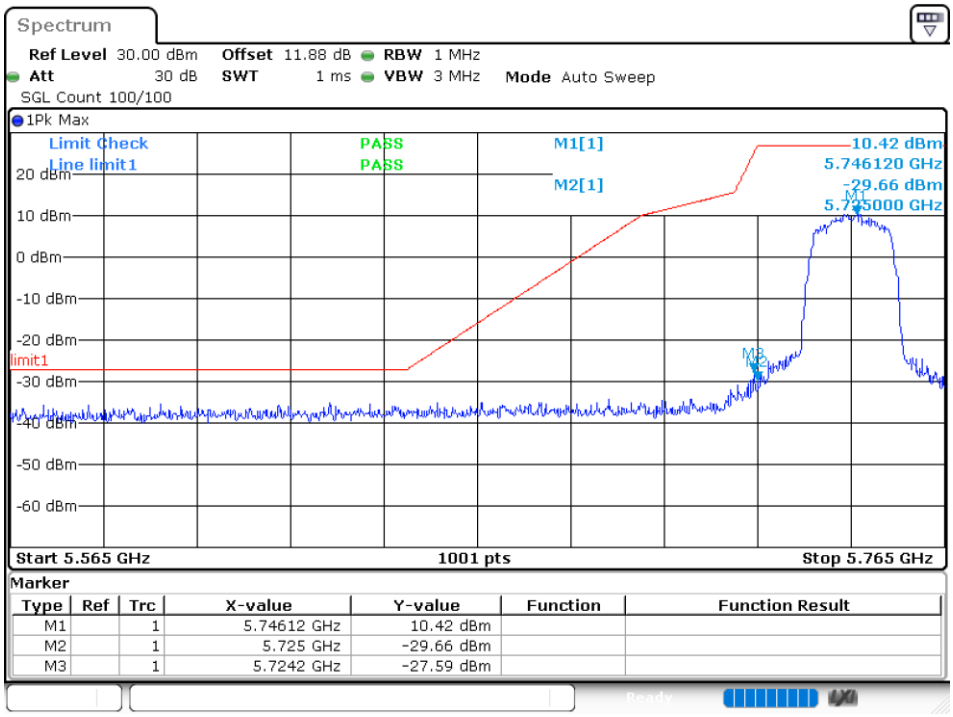
Band Edge NVNT n40 5755MHz Low Ant1



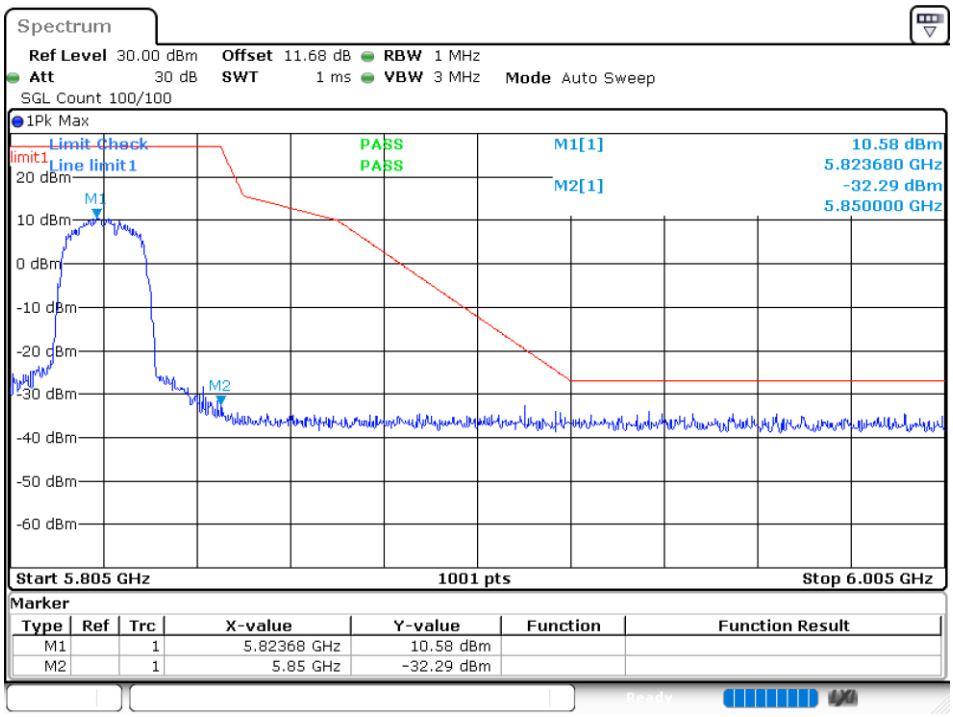
Band Edge NVNT n40 5795MHz High Ant1



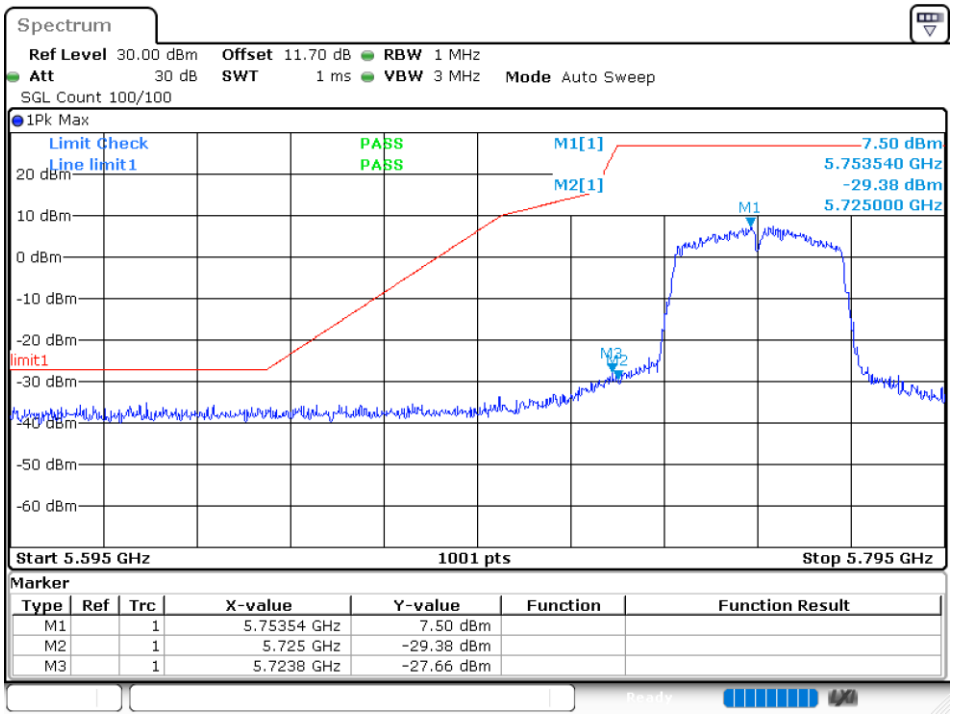
Band Edge NVNT ac20 5745MHz Low Ant1



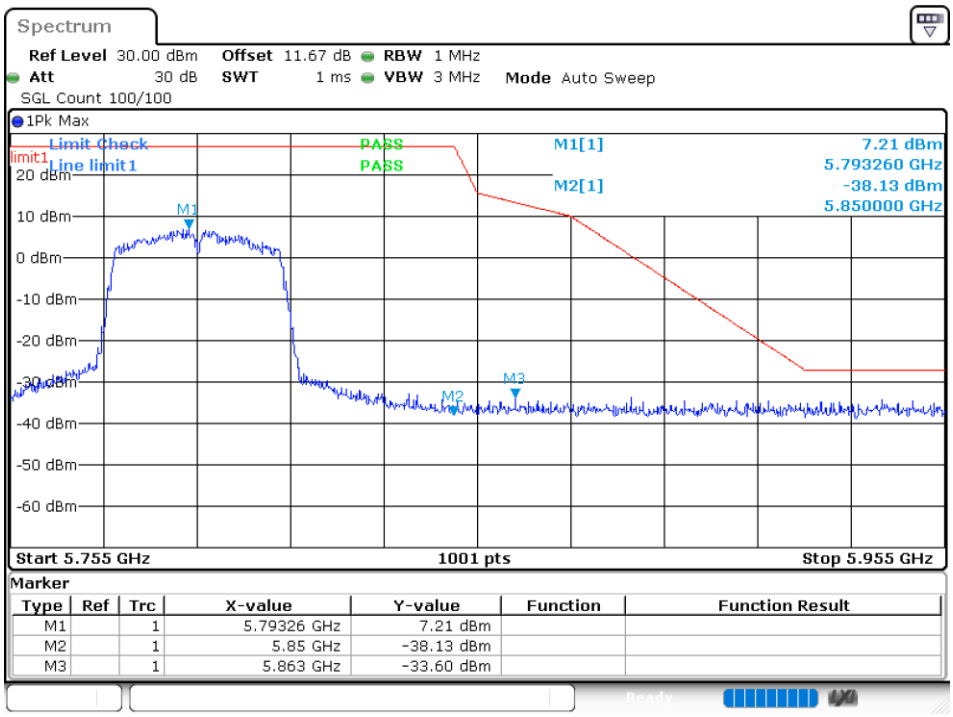
Band Edge NVNT ac20 5825MHz High Ant1



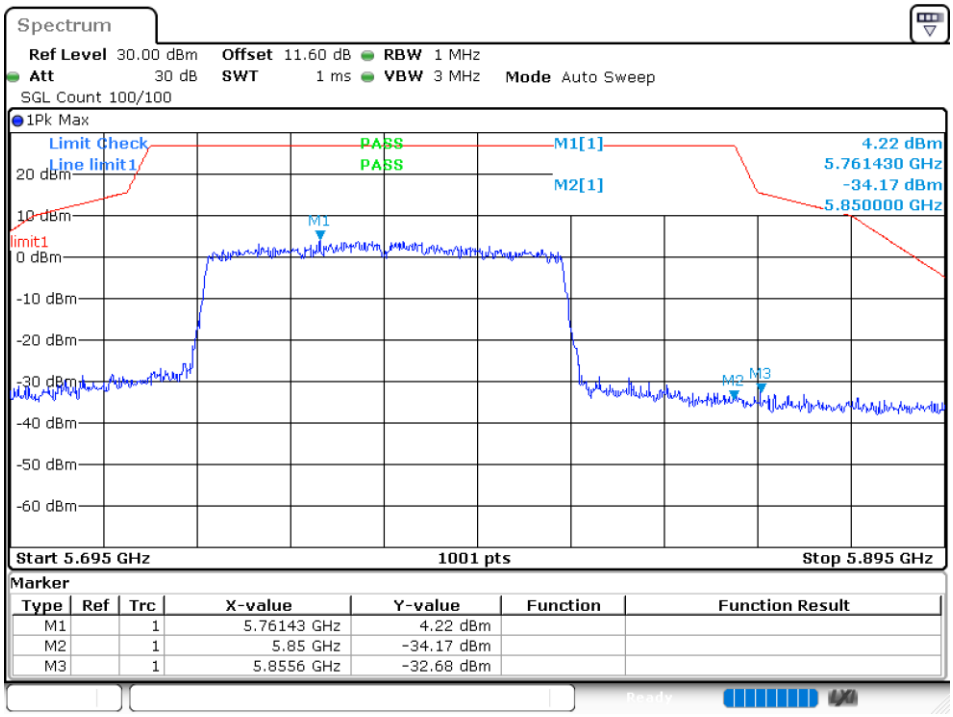
Band Edge NVNT ac40 5755MHz Low Ant1



Band Edge NVNT ac40 5795MHz High Ant1



Band Edge NVNT ac80 5775MHz High Ant1

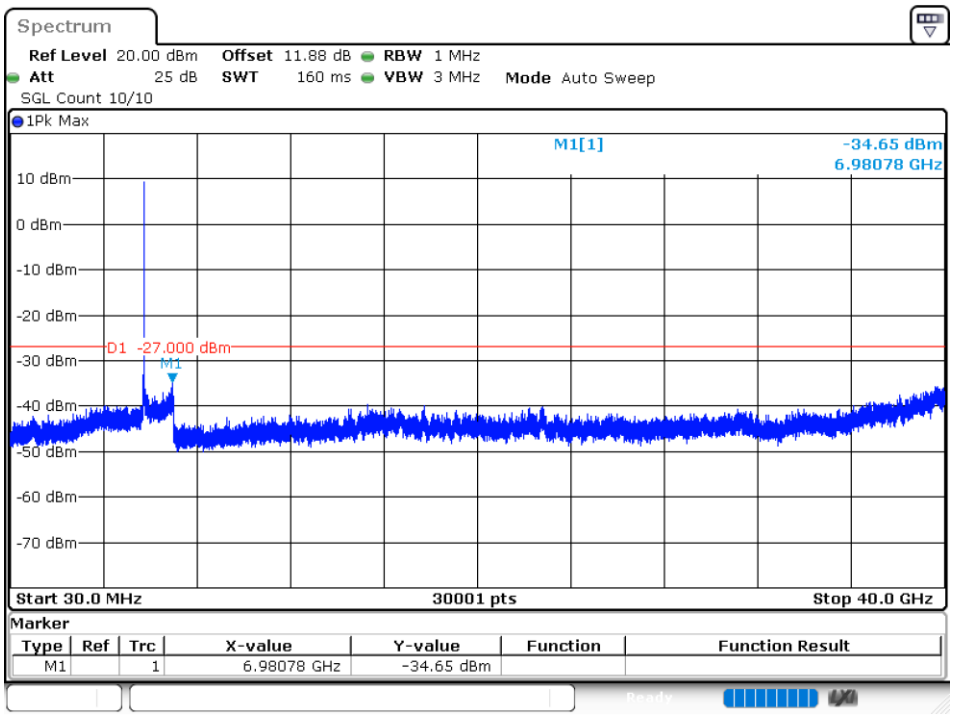


Conducted RF Spurious Emission

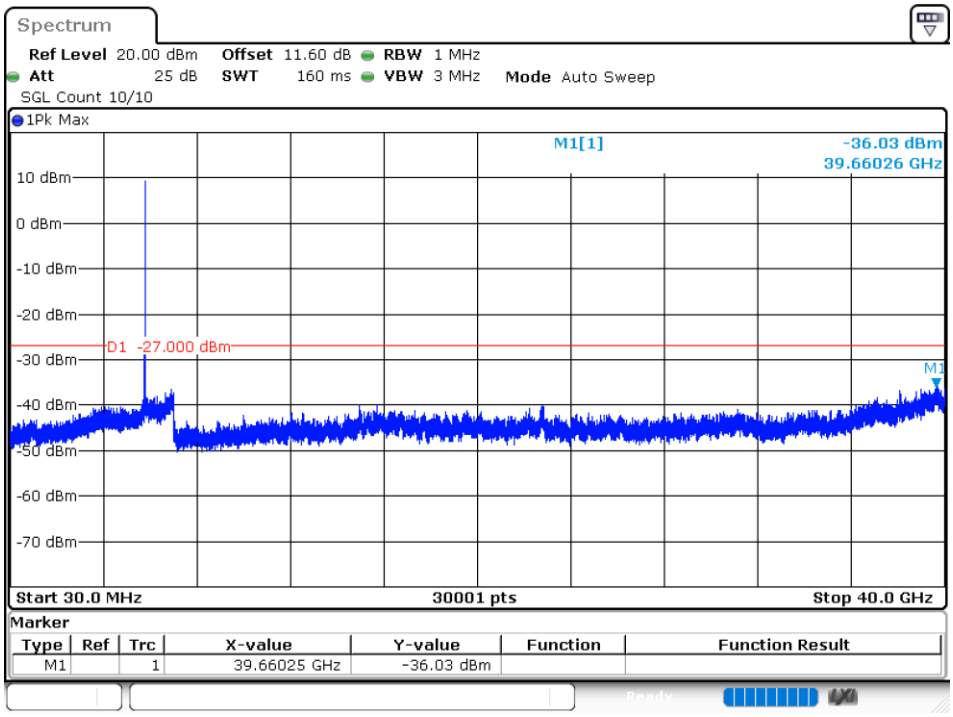
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-34.64	-27	Pass
NVNT	a	5785	Ant1	-36.02	-27	Pass
NVNT	a	5825	Ant1	-35.45	-27	Pass
NVNT	n20	5745	Ant1	-35.44	-27	Pass
NVNT	n20	5785	Ant1	-34.92	-27	Pass
NVNT	n20	5825	Ant1	-35.22	-27	Pass
NVNT	n40	5755	Ant1	-35.2	-27	Pass
NVNT	n40	5795	Ant1	-35.46	-27	Pass
NVNT	ac20	5745	Ant1	-35.23	-27	Pass
NVNT	ac20	5785	Ant1	-35.77	-27	Pass
NVNT	ac20	5825	Ant1	-35.72	-27	Pass
NVNT	ac40	5755	Ant1	-35.45	-27	Pass
NVNT	ac40	5795	Ant1	-34.03	-27	Pass
NVNT	ac80	5775	Ant1	-35.45	-27	Pass

Test Graphs

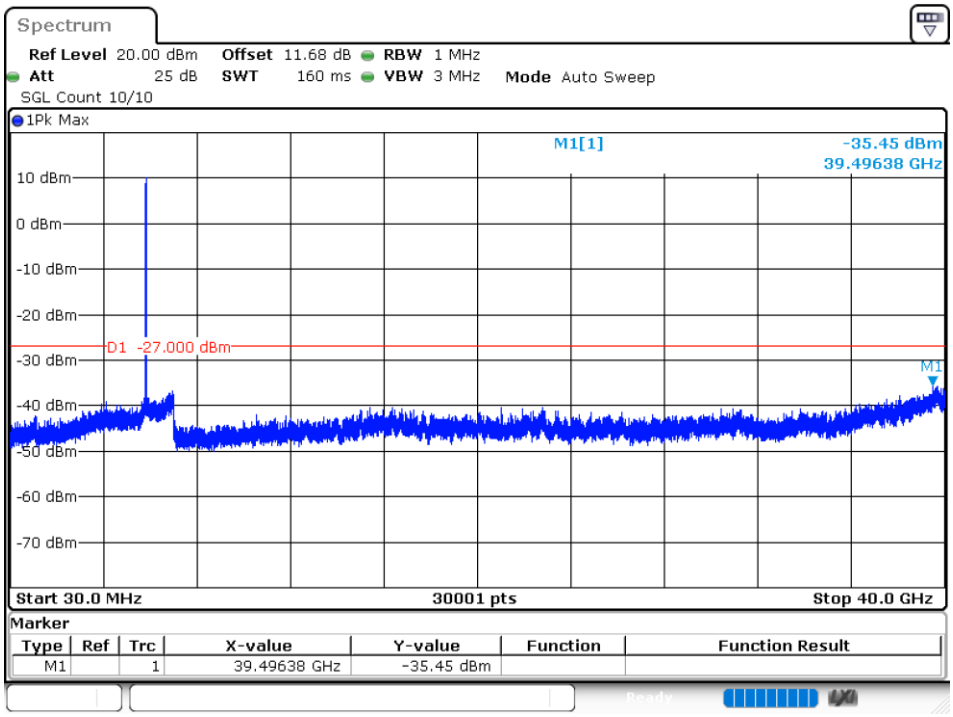
Tx. Spurious NVNT a 5745MHz Ant1 Emission



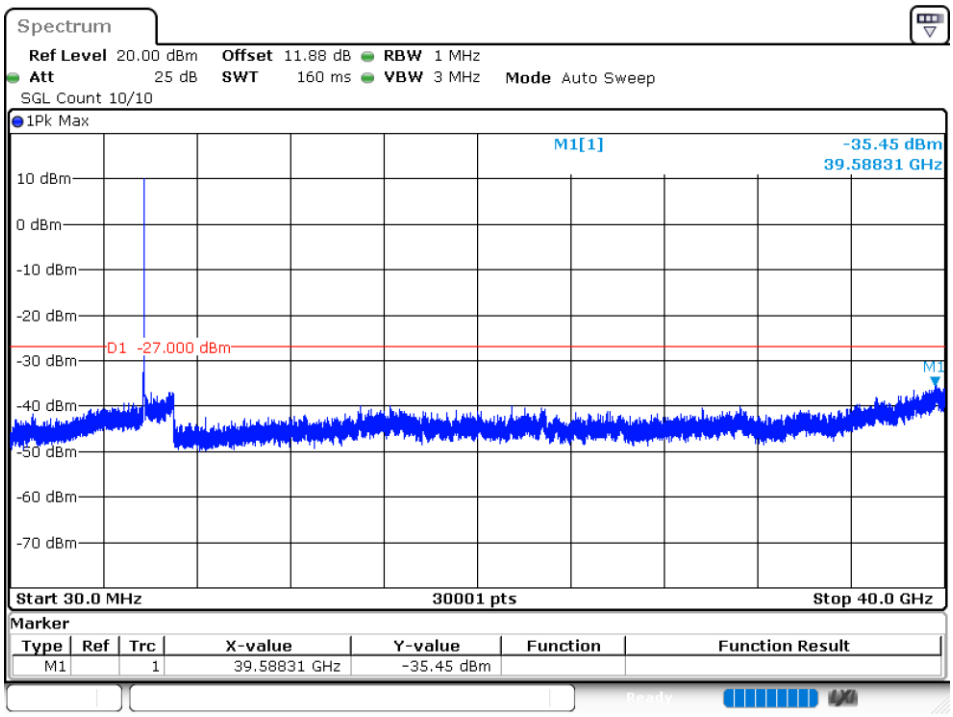
Tx. Spurious NVNT a 5785MHz Ant1 Emission



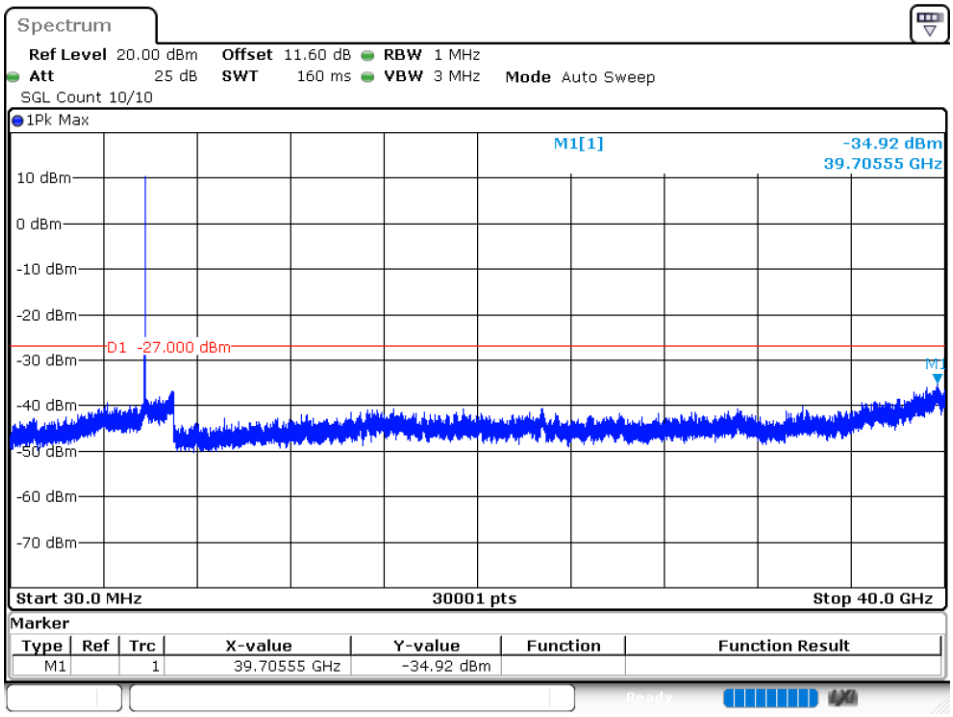
Tx. Spurious NVNT a 5825MHz Ant1 Emission



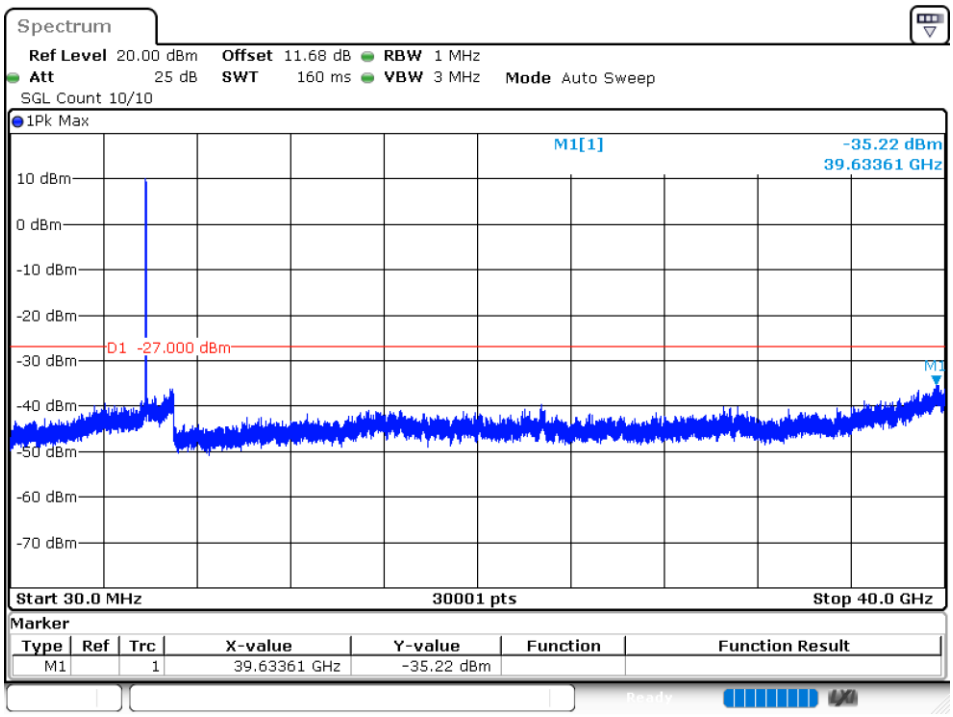
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



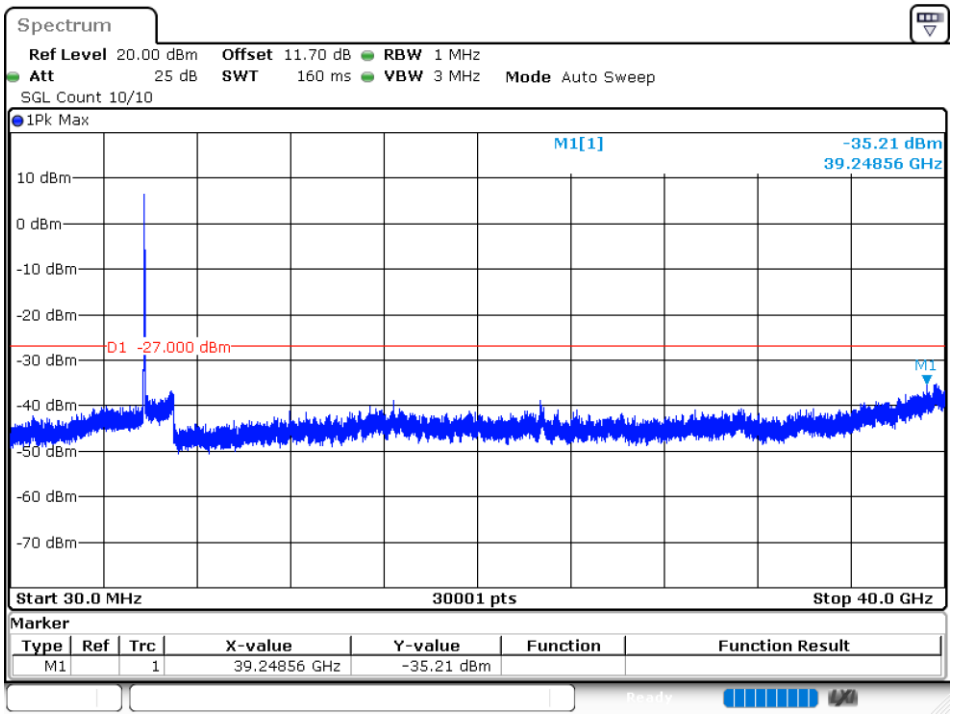
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



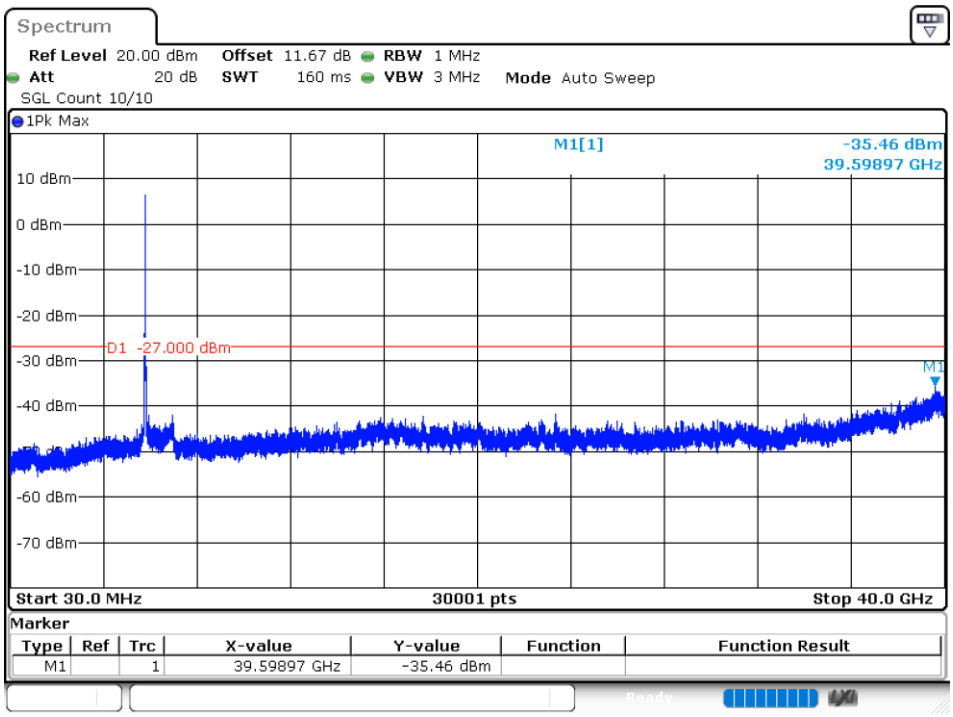
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



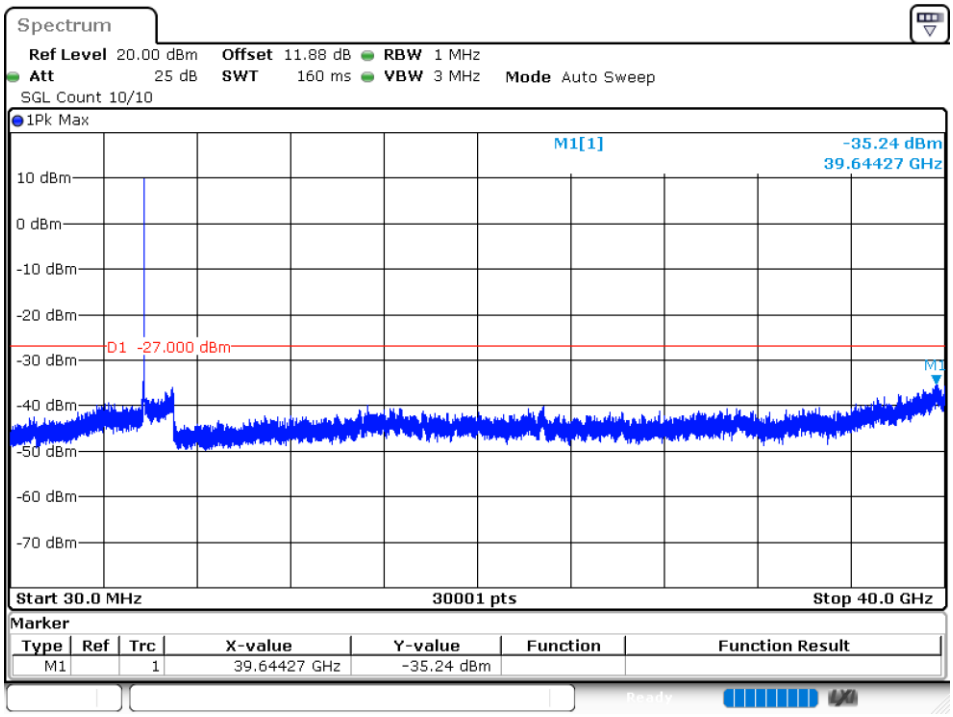
Tx. Spurious NVNT n40 5755MHz Ant1 Emission



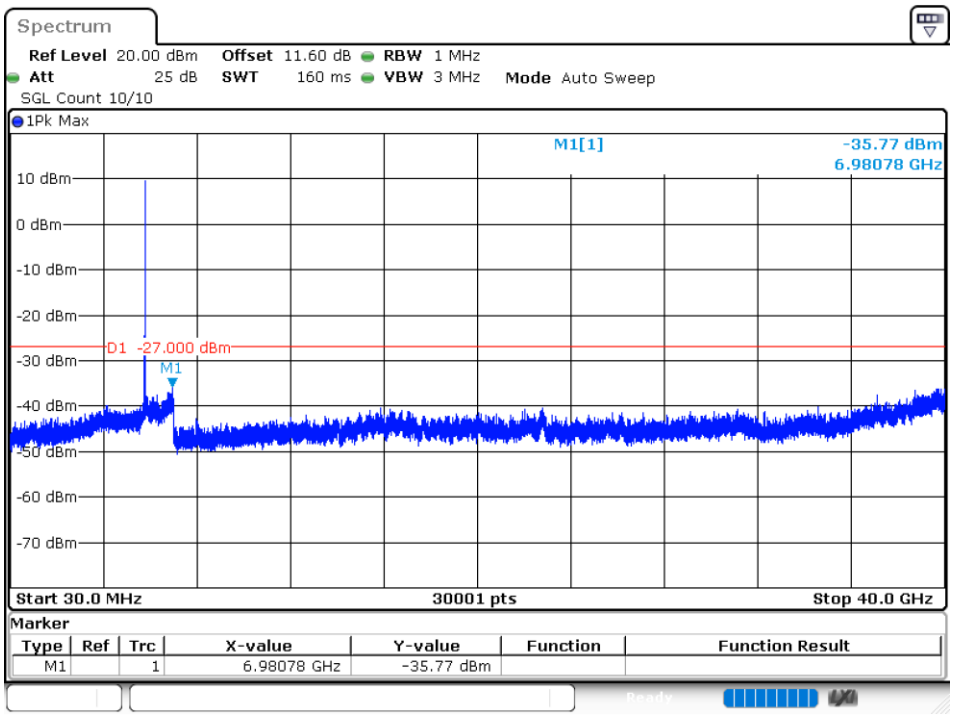
Tx. Spurious NVNT n40 5795MHz Ant1 Emission



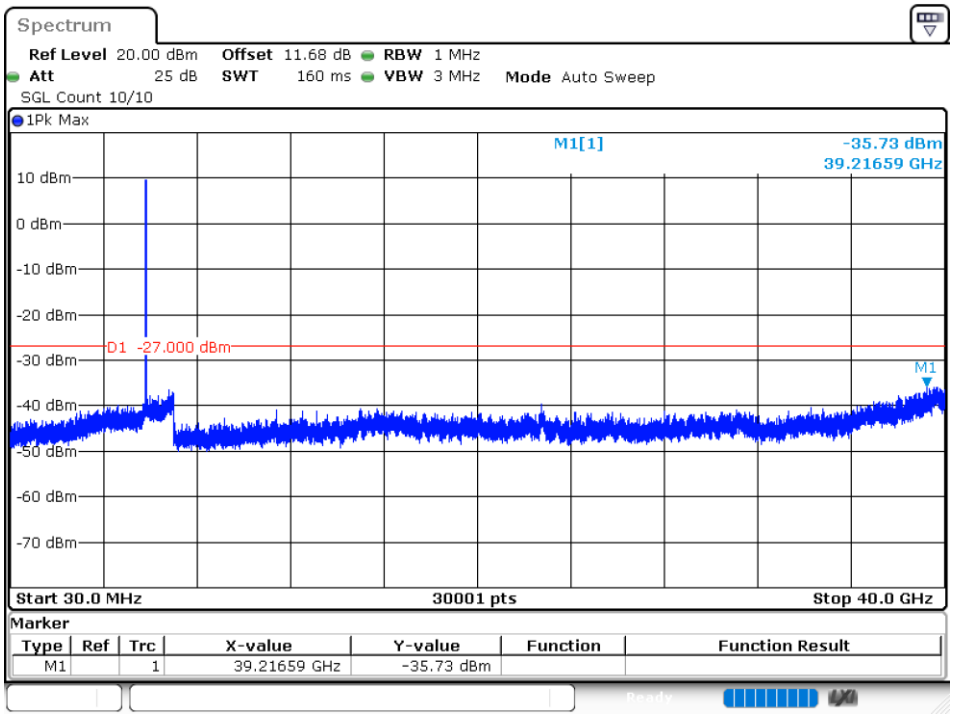
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



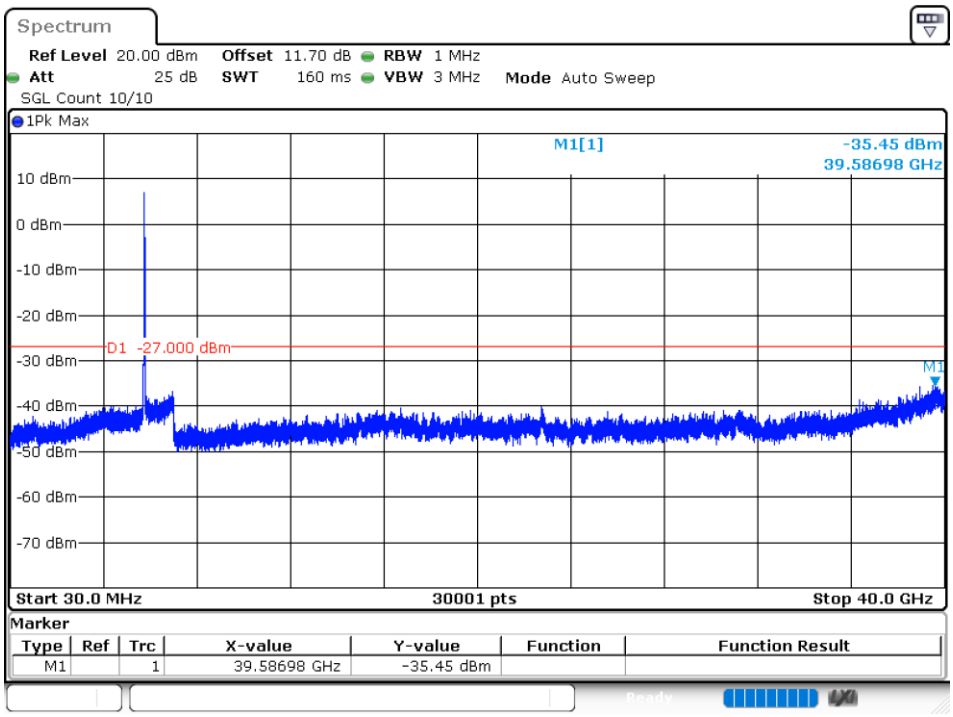
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



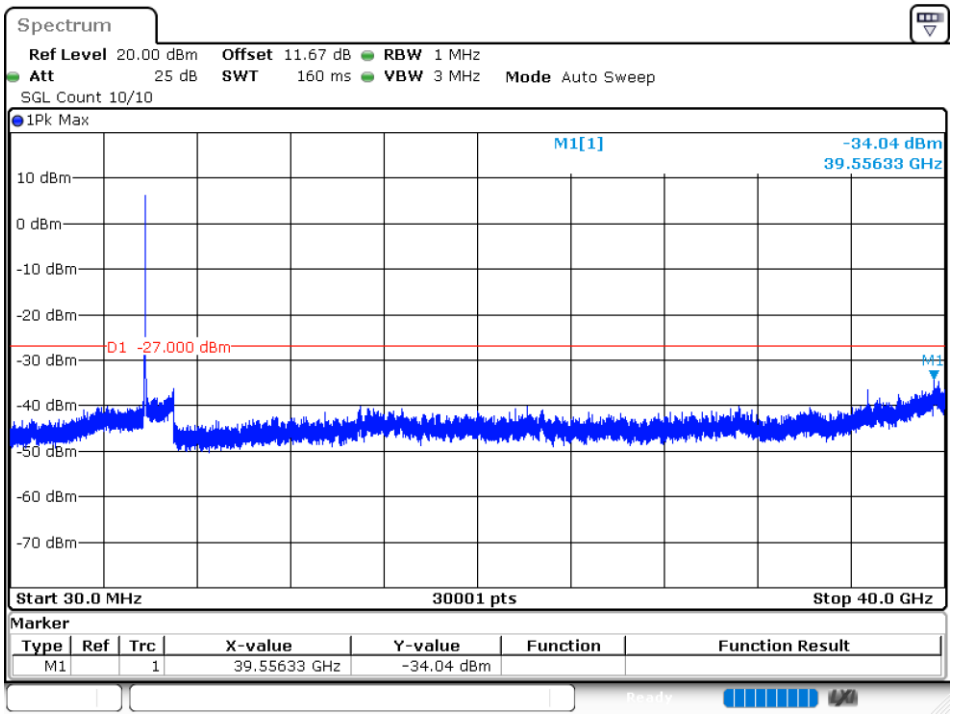
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



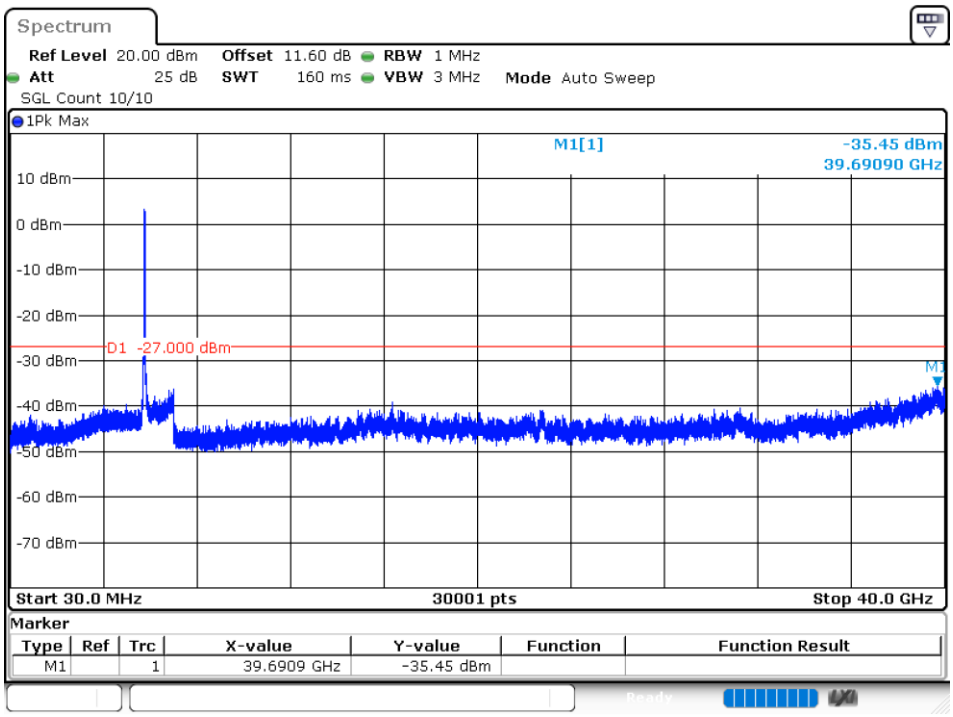
Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



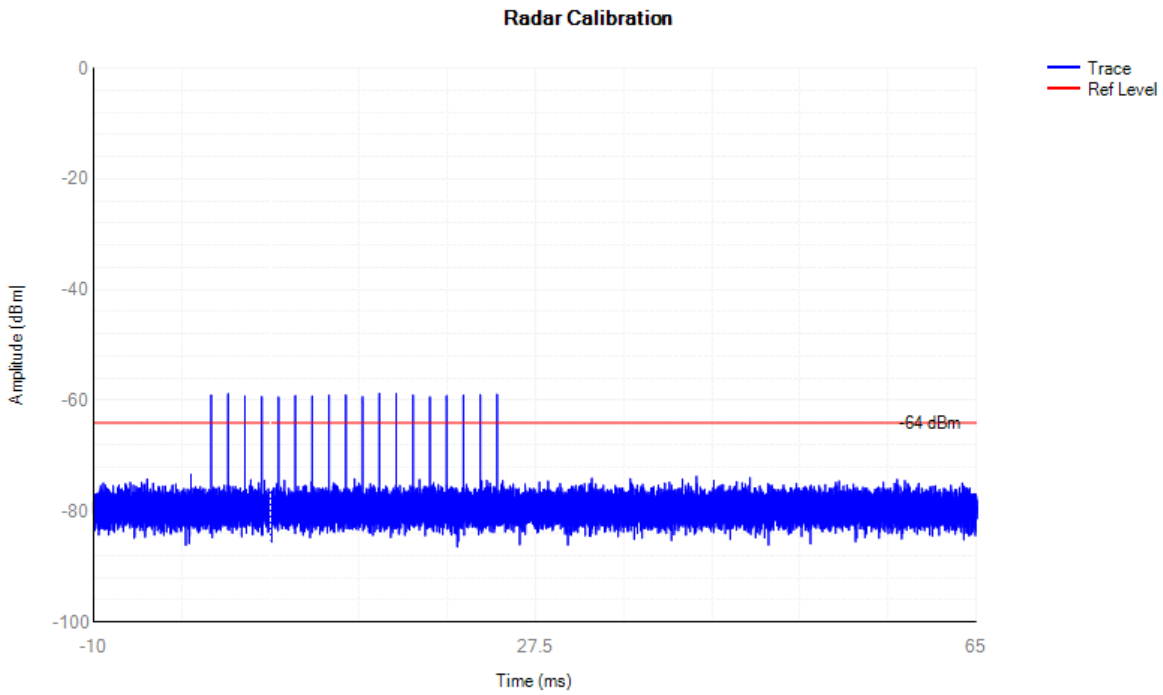
Tx. Spurious NVNT ac80 5775MHz Ant1 Emission



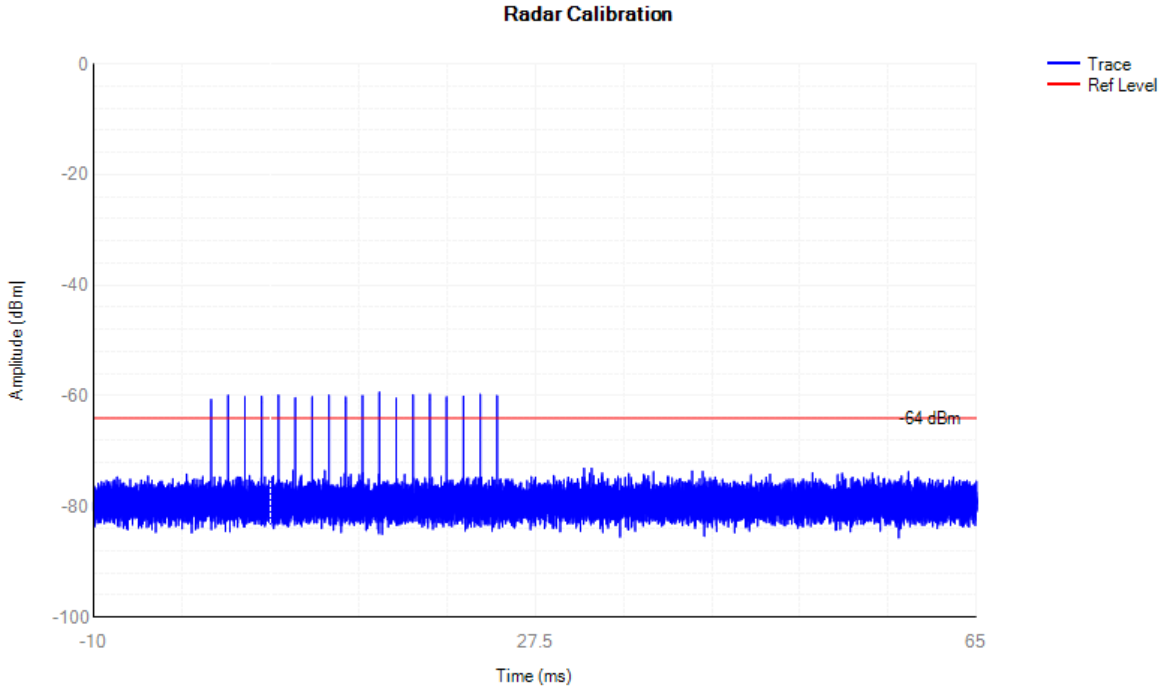
DFS

Calibration

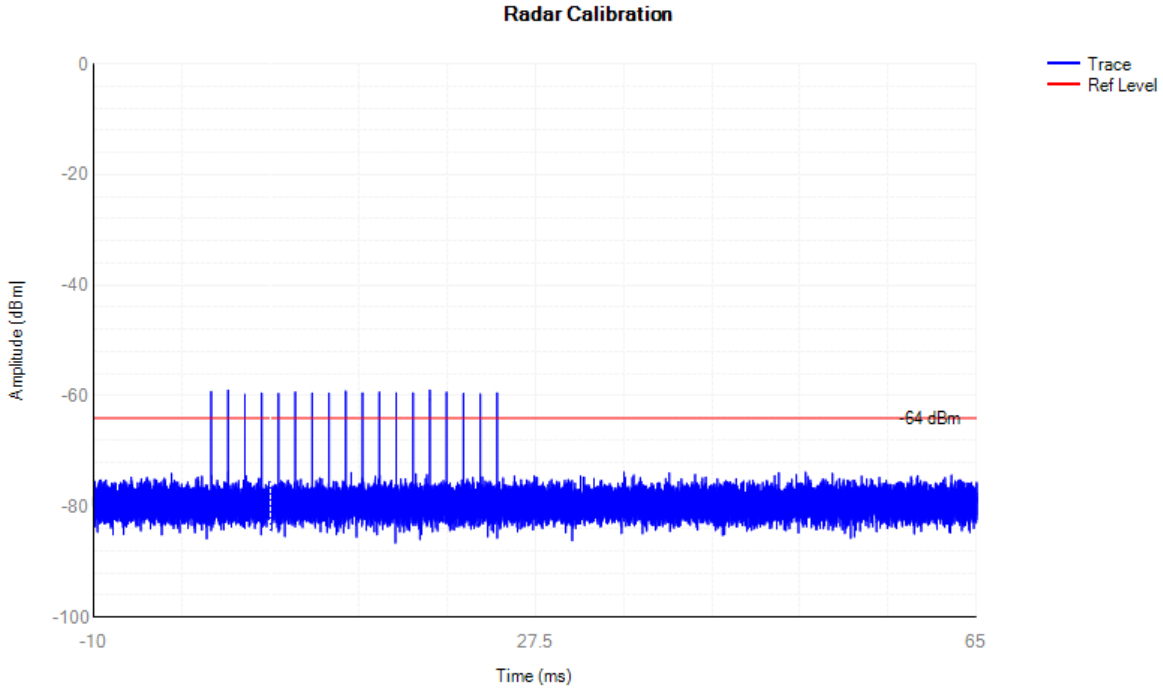
5290MHz ac80 DFS_FCC_T0



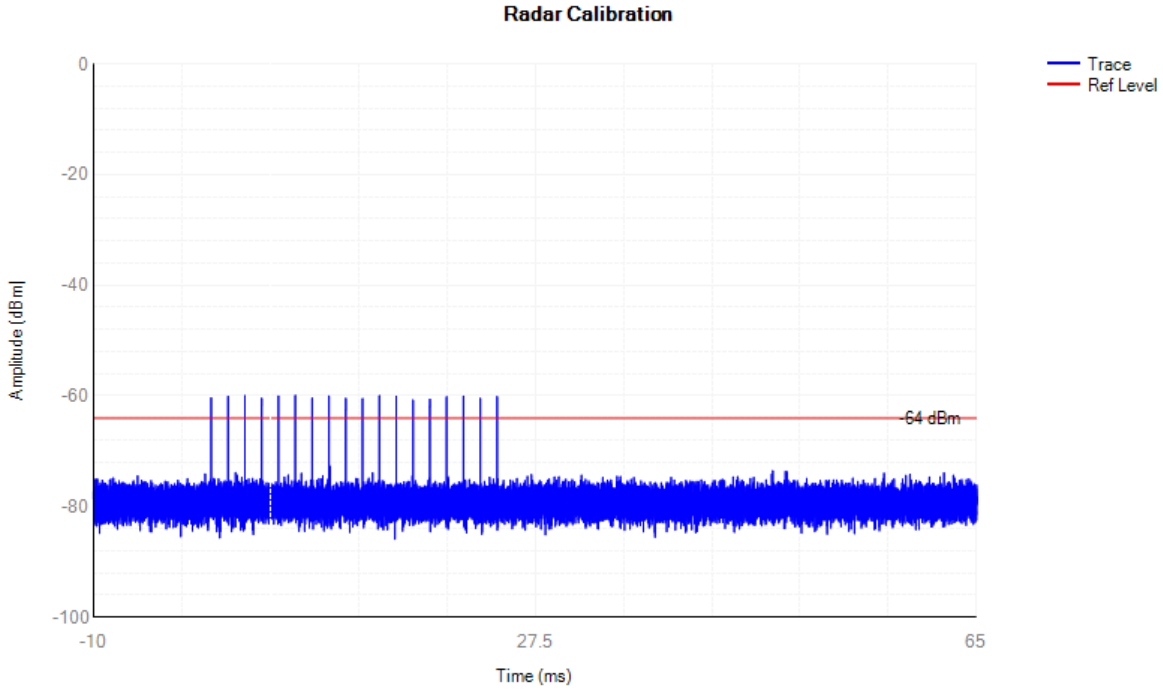
5530MHz ac80 DFS_FCC_T0



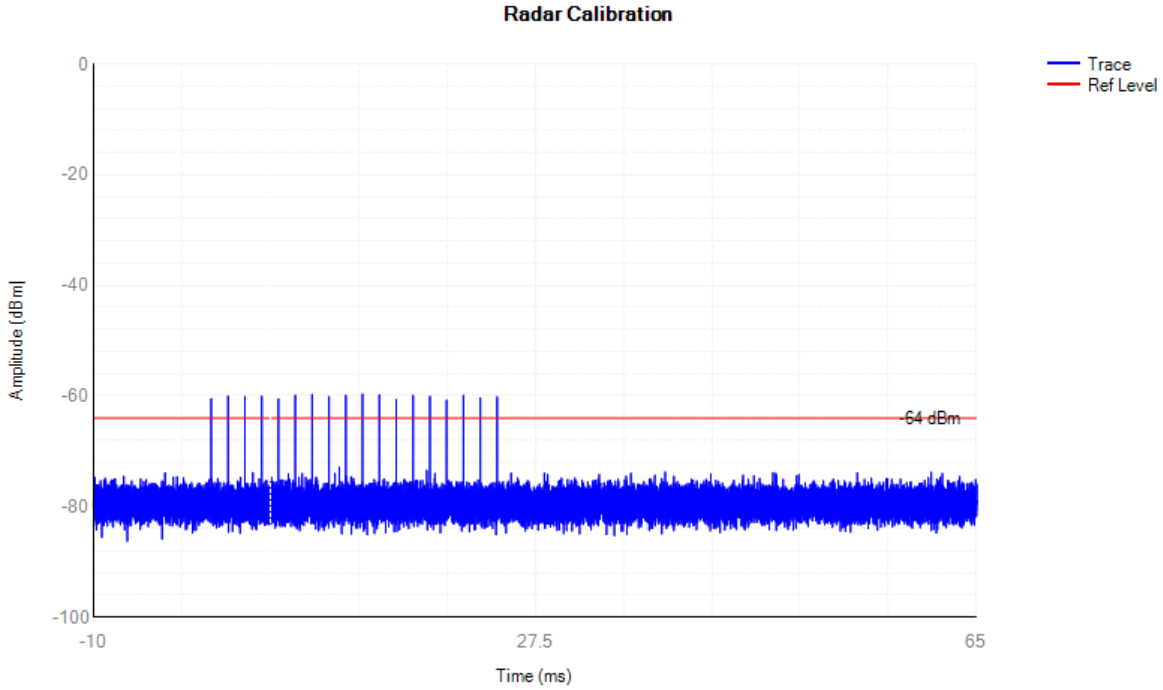
5310MHz n40 DFS_FCC_T0



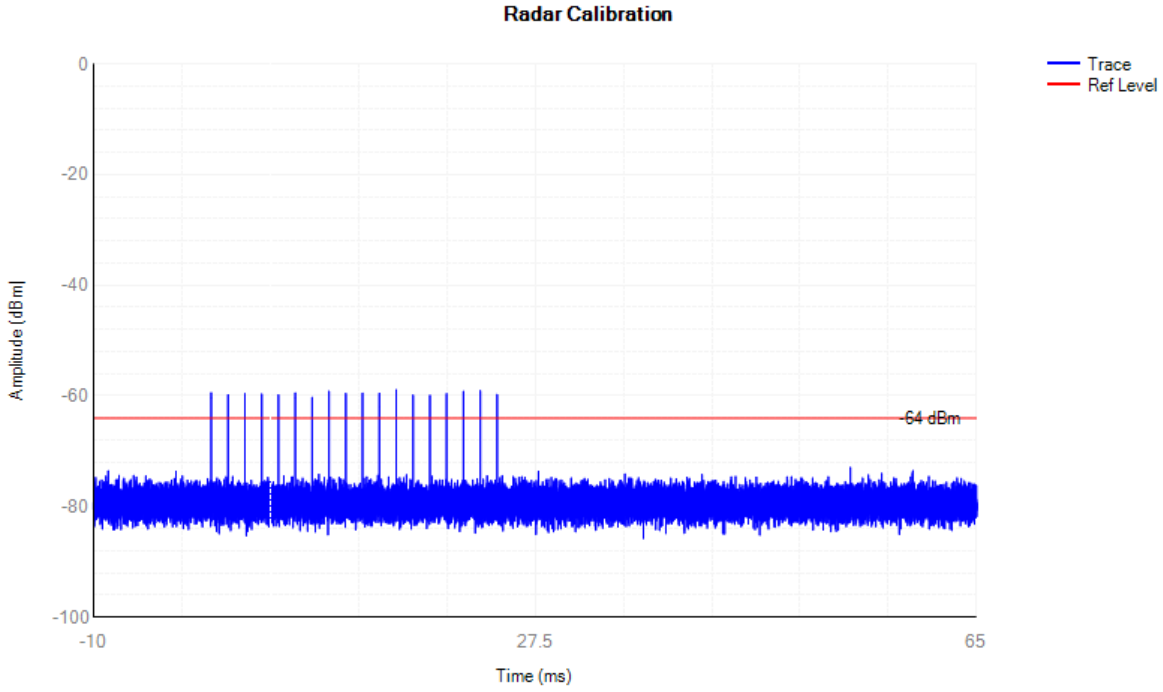
5510MHz n40 DFS_FCC_T0



5320MHz a DFS_FCC_T0

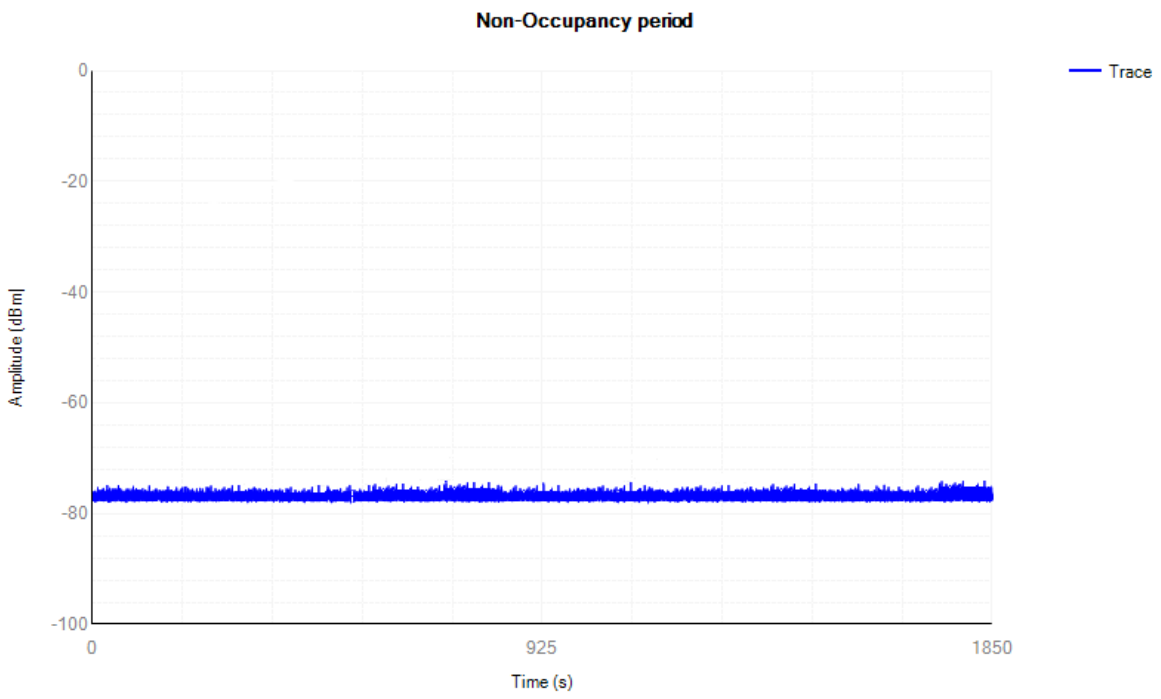


5500MHz a DFS_FCC_T0

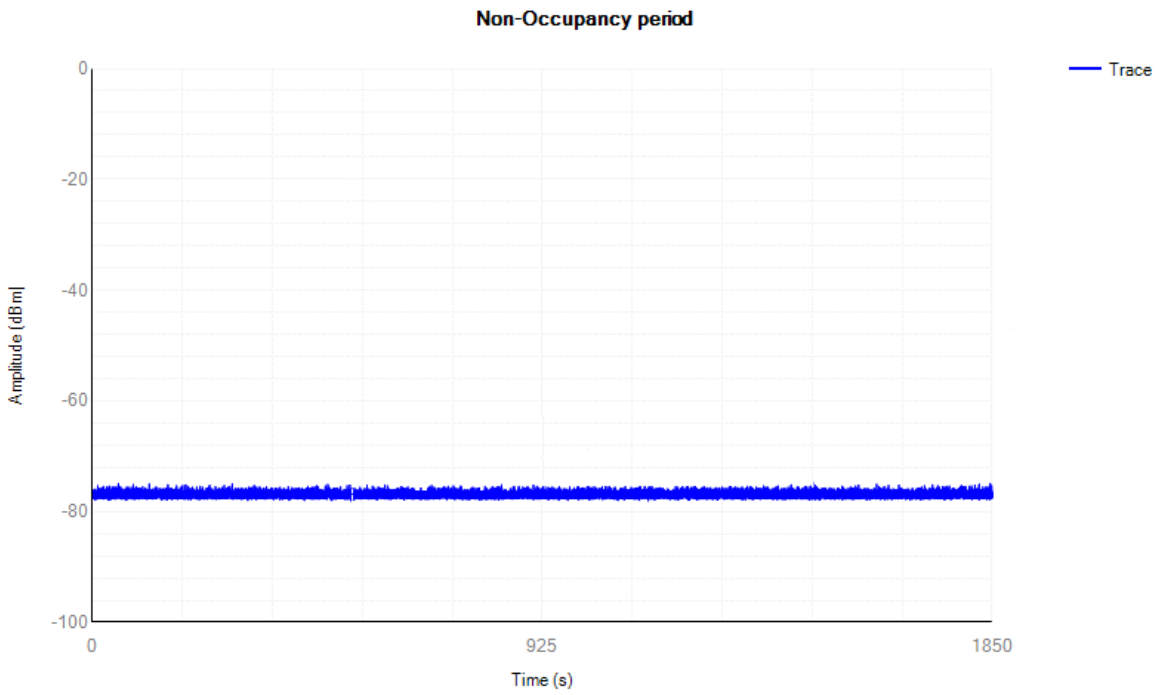

Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
-64 dBm
-10
27.5
65
Time (ms)

Non-Occupancy

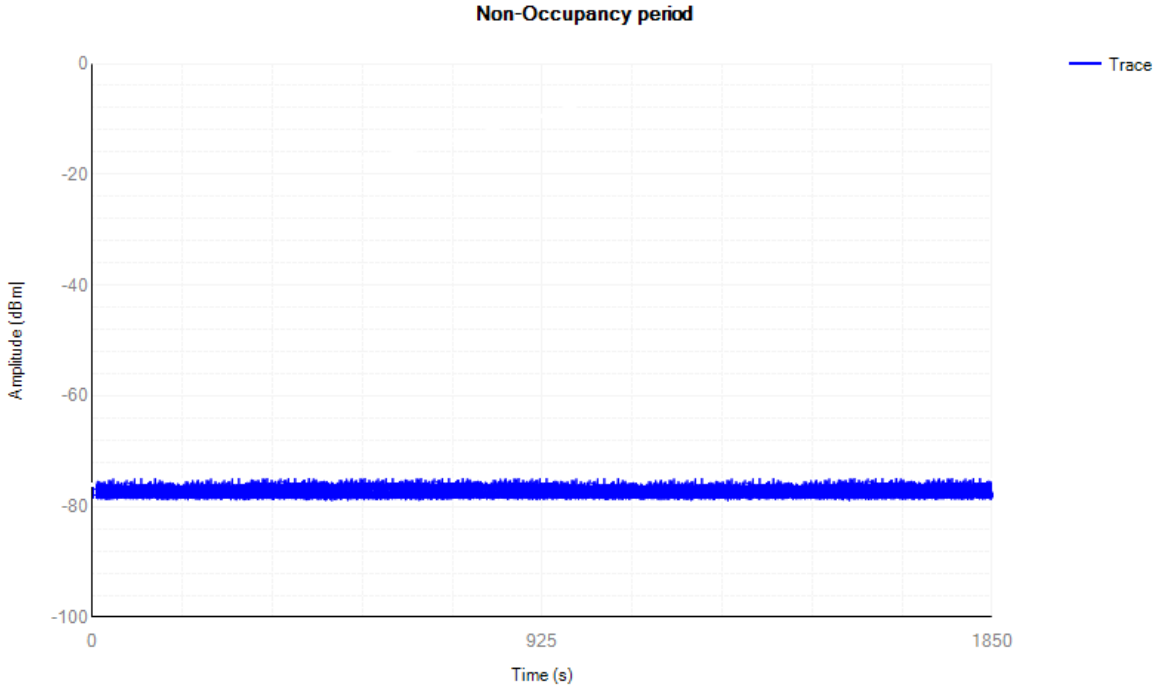
5290MHz ac80 Non-Occupancy



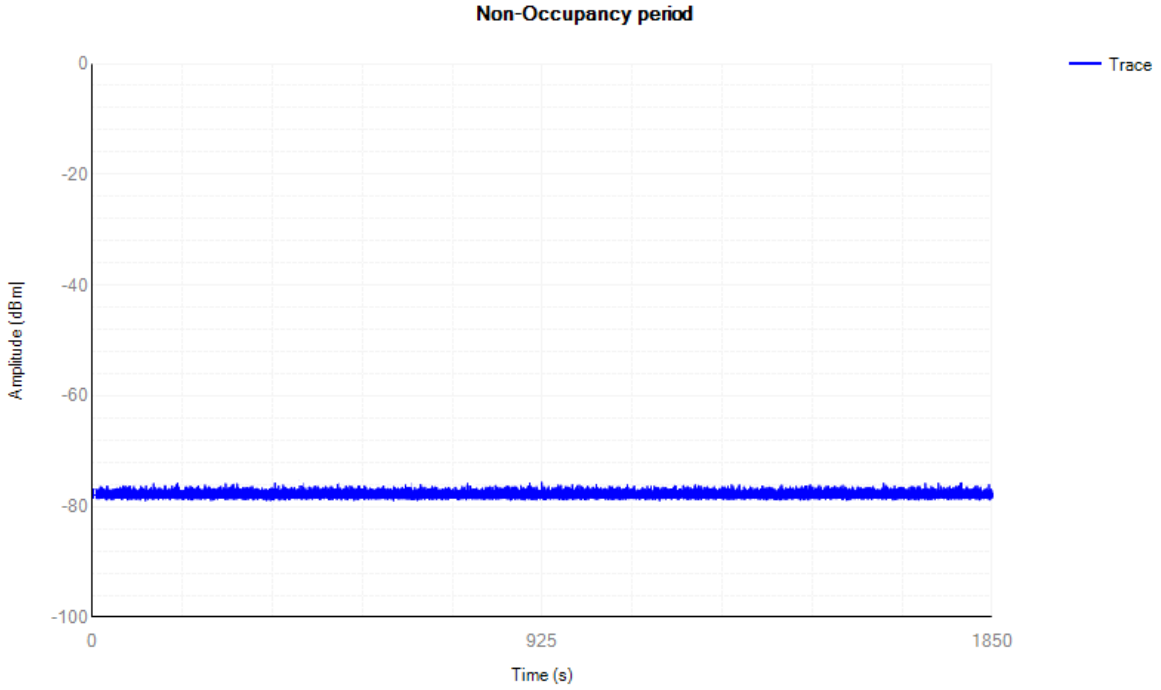
5530MHz ac80 Non-Occupancy



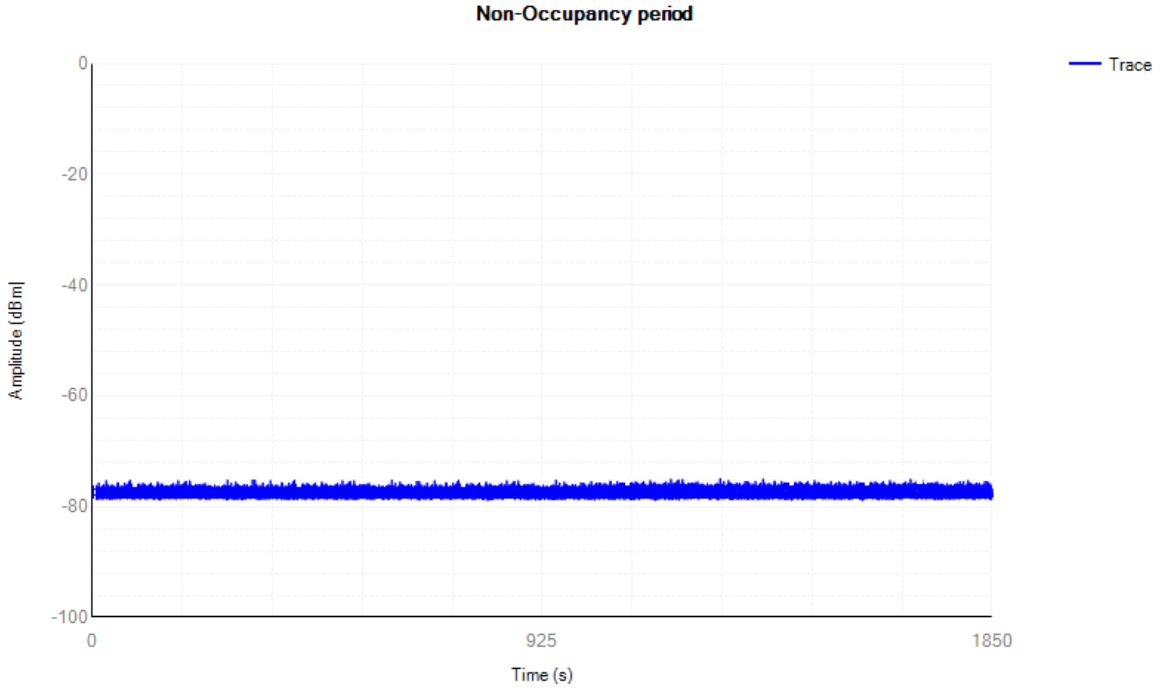
5310MHz n40 Non-Occupancy



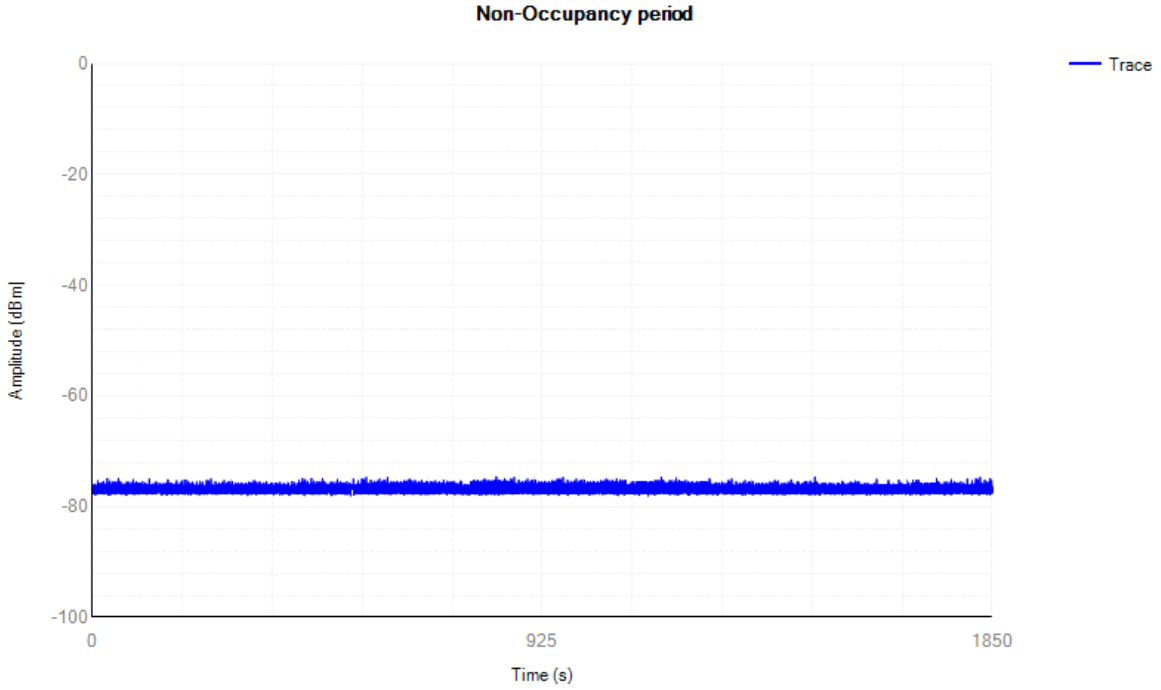
5510MHz n40 Non-Occupancy



5320MHz a Non-Occupancy



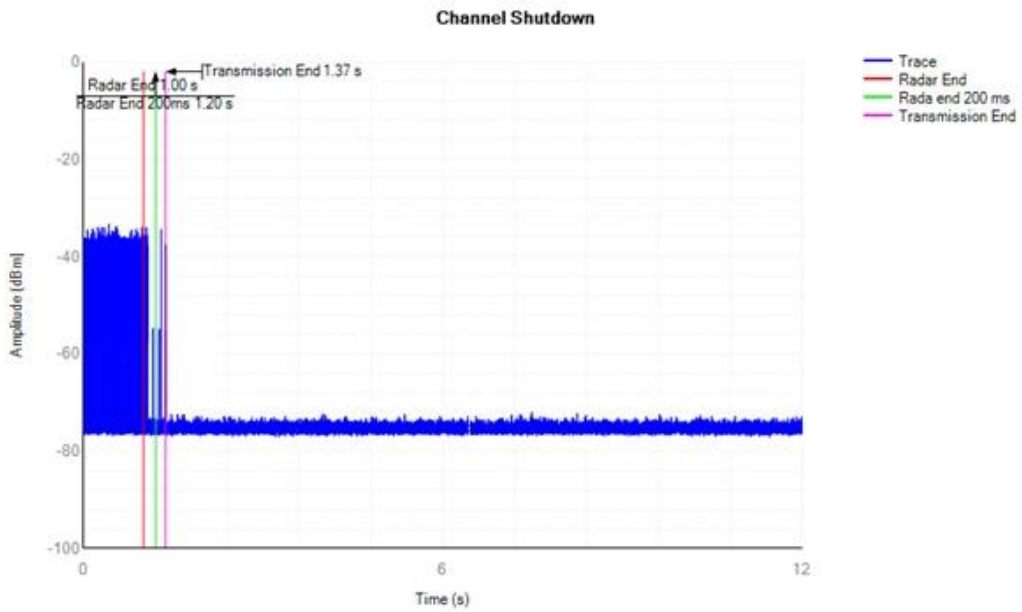
5500MHz a Non-Occupancy



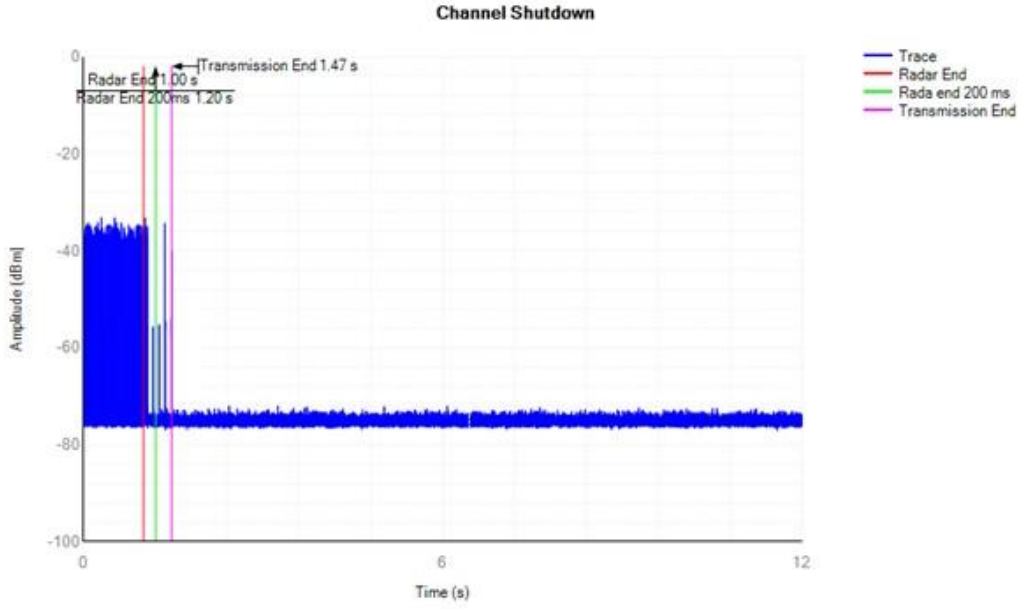
Shutdown Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5290	0.366	10	0.0096	0.26	0.0008	0.06	Pass
ac80	5530	0.4692	10	0.0072	0.26	0.0008	0.06	Pass
n40	5310	0.53	10	0.0084	0.26	0.0036	0.06	Pass
n40	5510	0.4512	10	0.0072	0.26	0.0024	0.06	Pass
a	5320	0.4912	10	0.0052	0.26	0.0024	0.06	Pass
a	5500	0.514	10	0.0092	0.26	0.0024	0.06	Pass

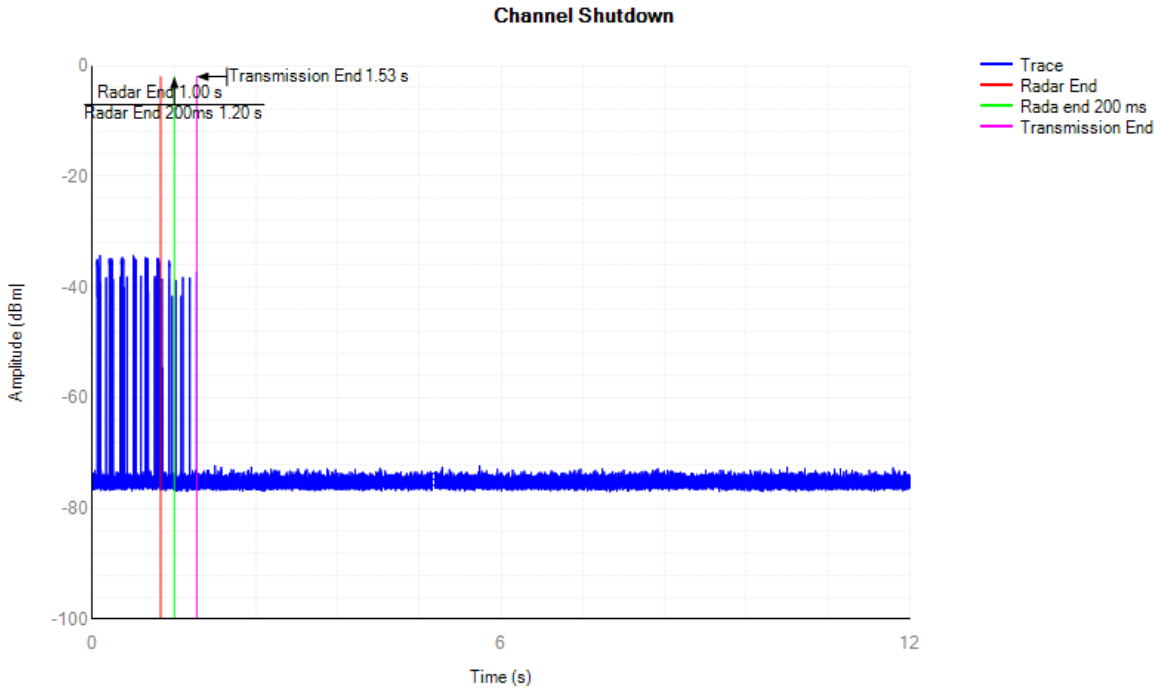
5290MHz ac80 Shutdown



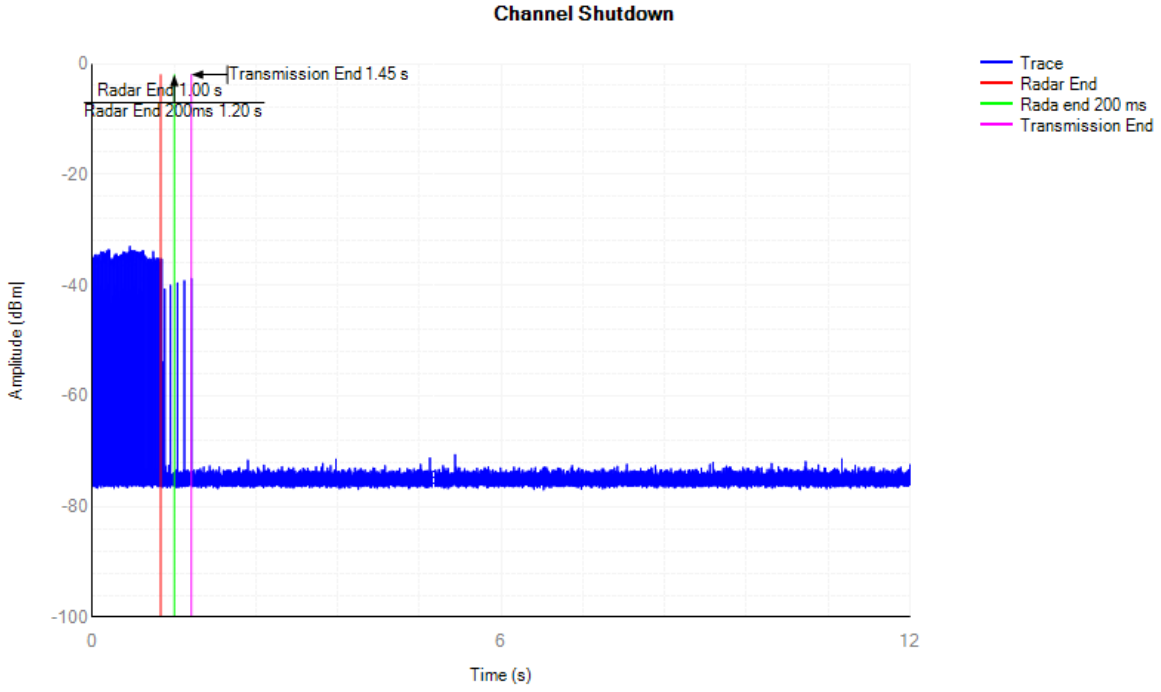
5530MHz ac80 Shutdown



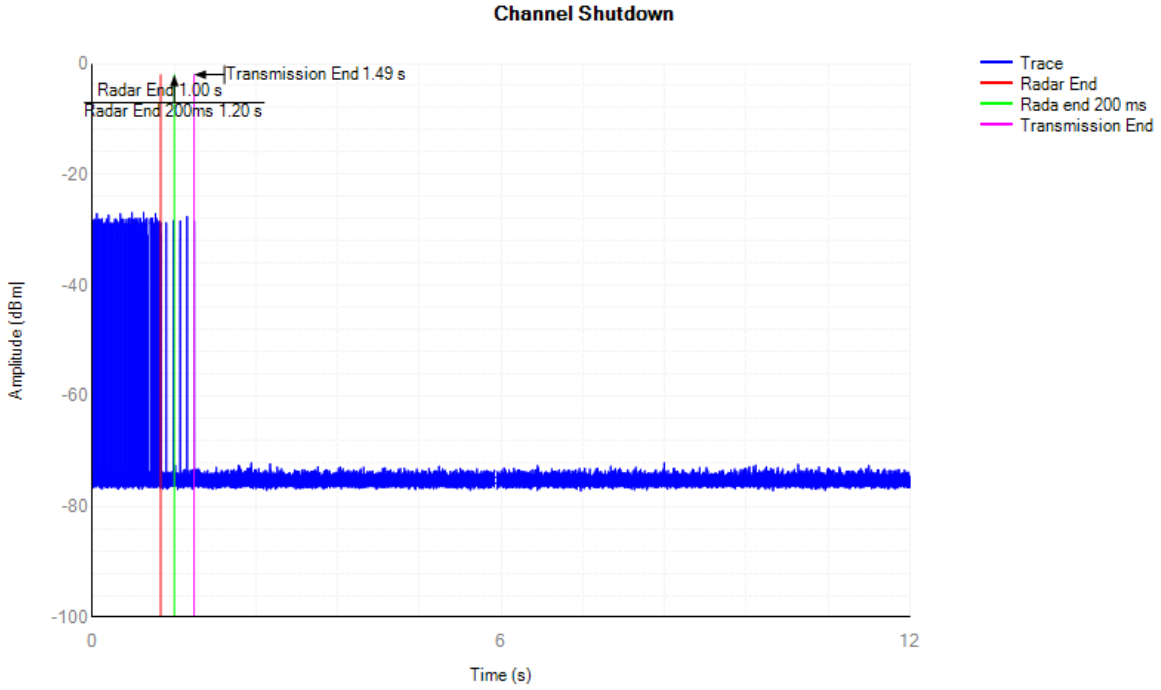
5310MHz n40 Shutdown



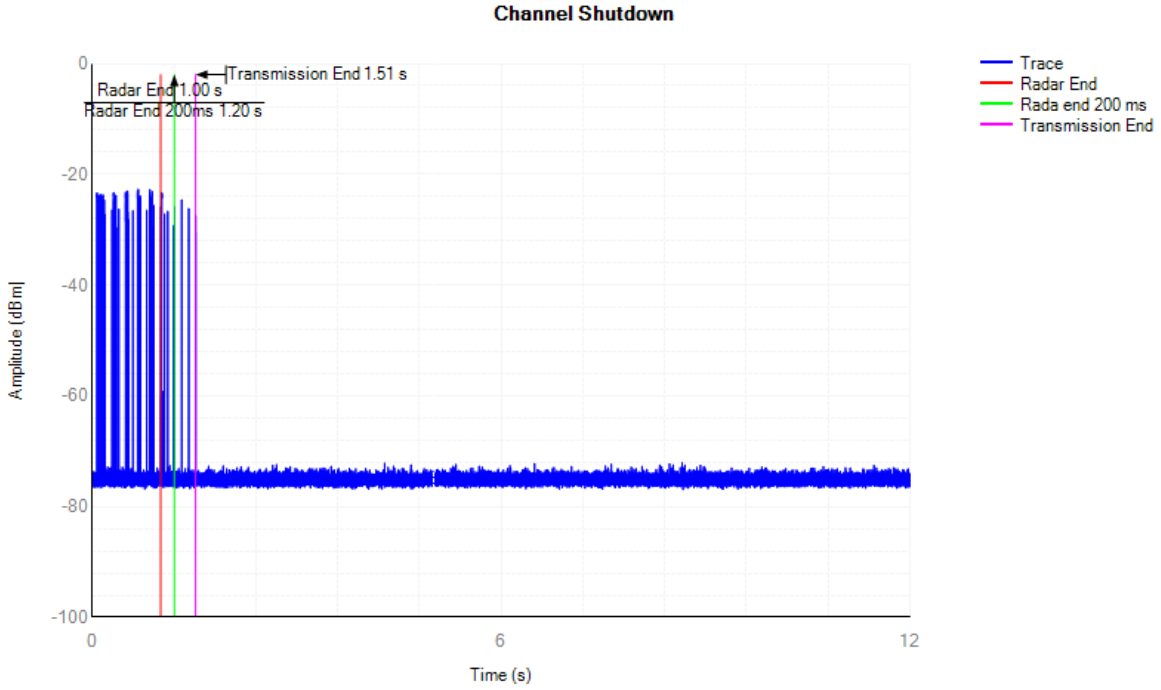
5510MHz n40 Shutdown



5320MHz a Shutdown



5500MHz a Shutdown


Channel Shutdown
Transmission End 1.51 s
Radar End 1.00 s
Radar End 200ms 1.20 s
Trace
Radar End
Rada end 200 ms
Transmission End
Amplitude [dBm]
0
-20
-40
-60
-80
-100
0
6
12
Time (s)