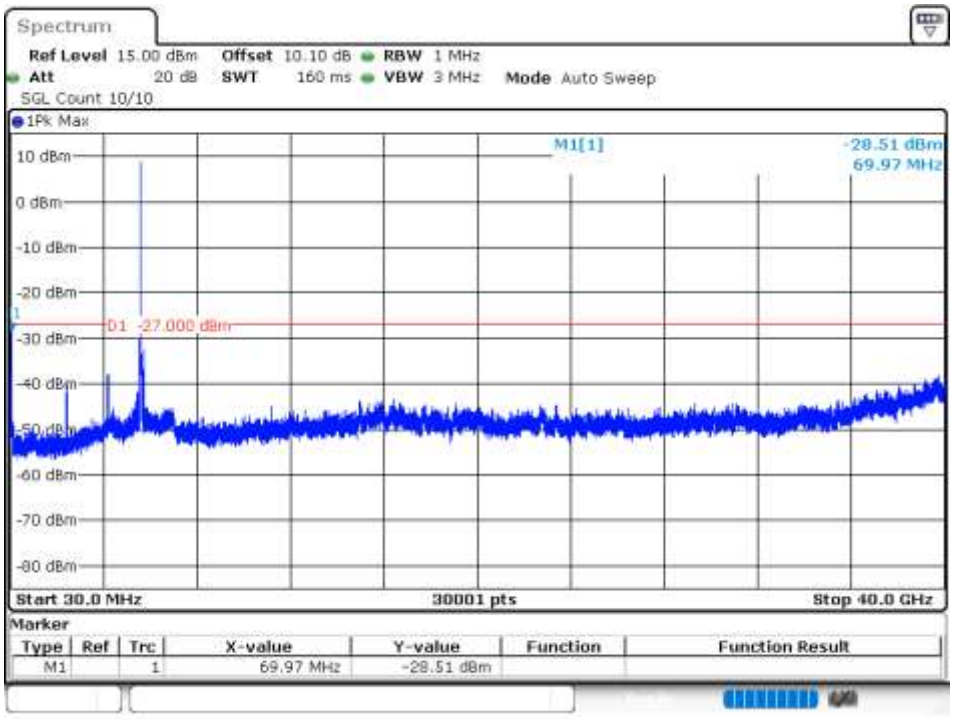
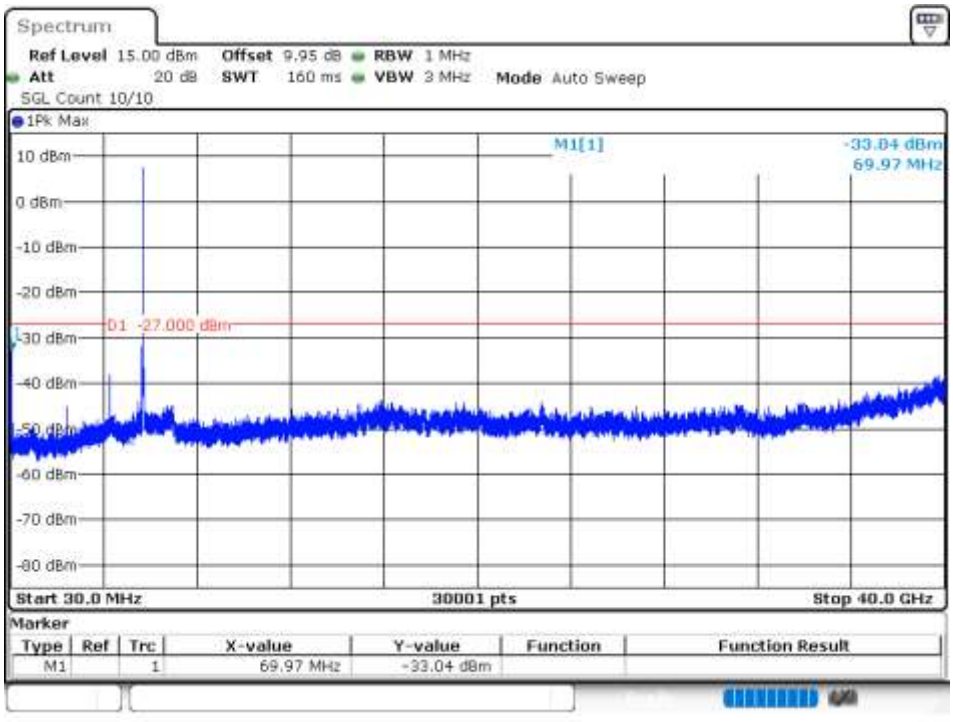
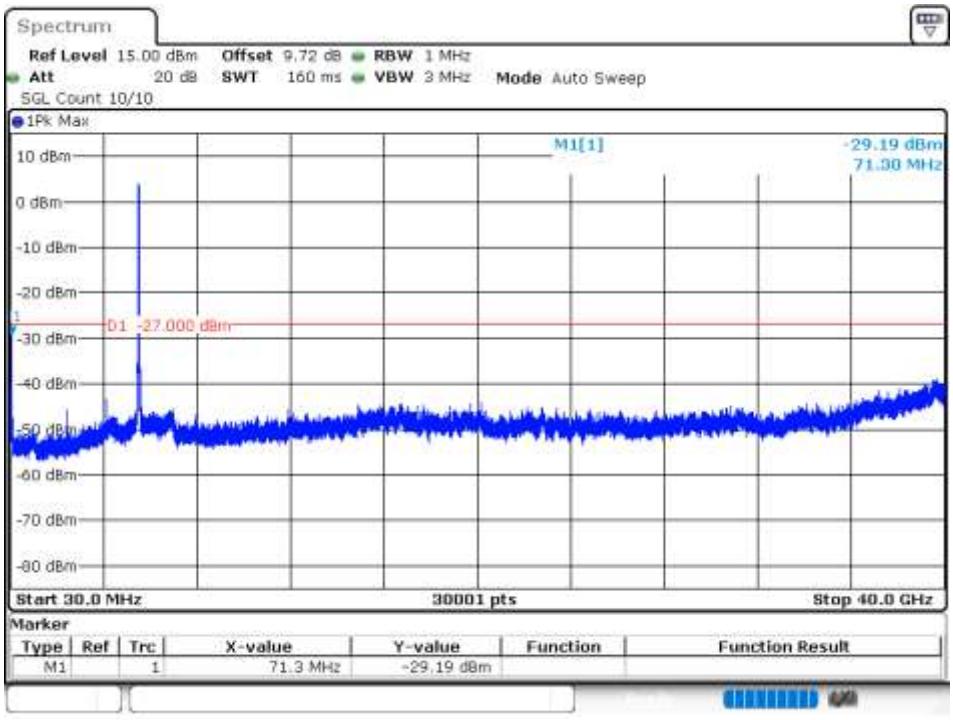
Tx. Spurious NVNT ac20 5600MHz Ant1 Emission



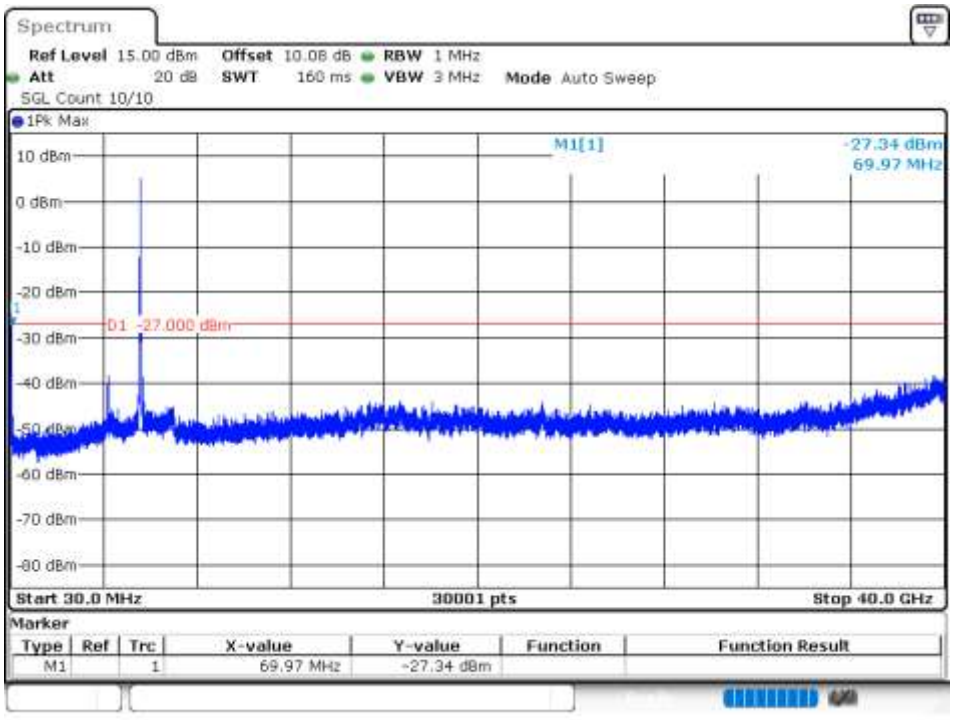
Tx. Spurious NVNT ac20 5700MHz Ant1 Emission

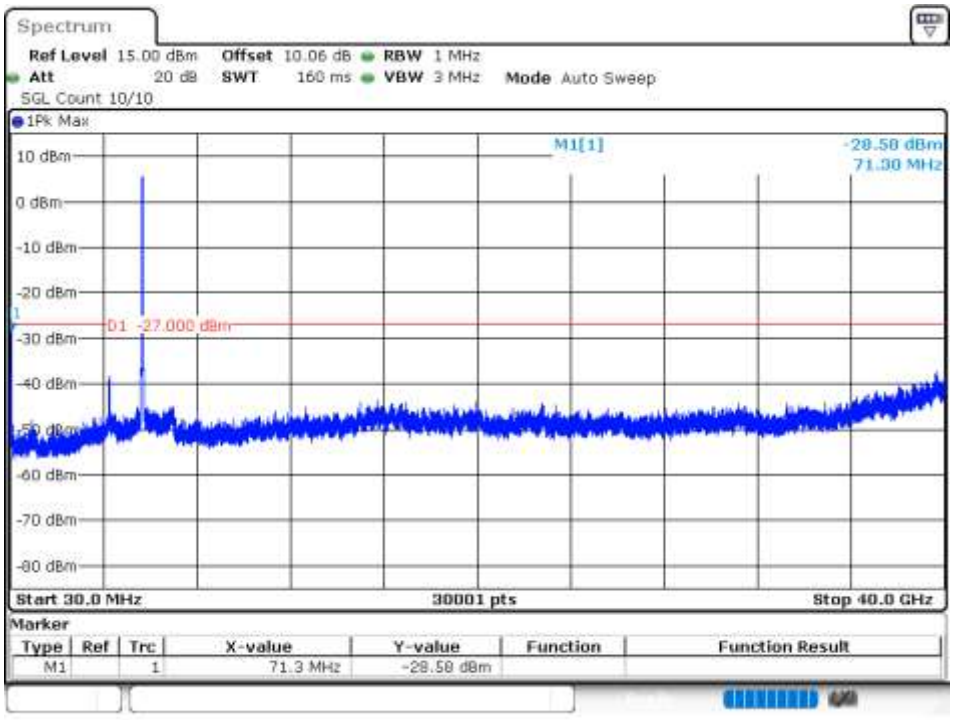


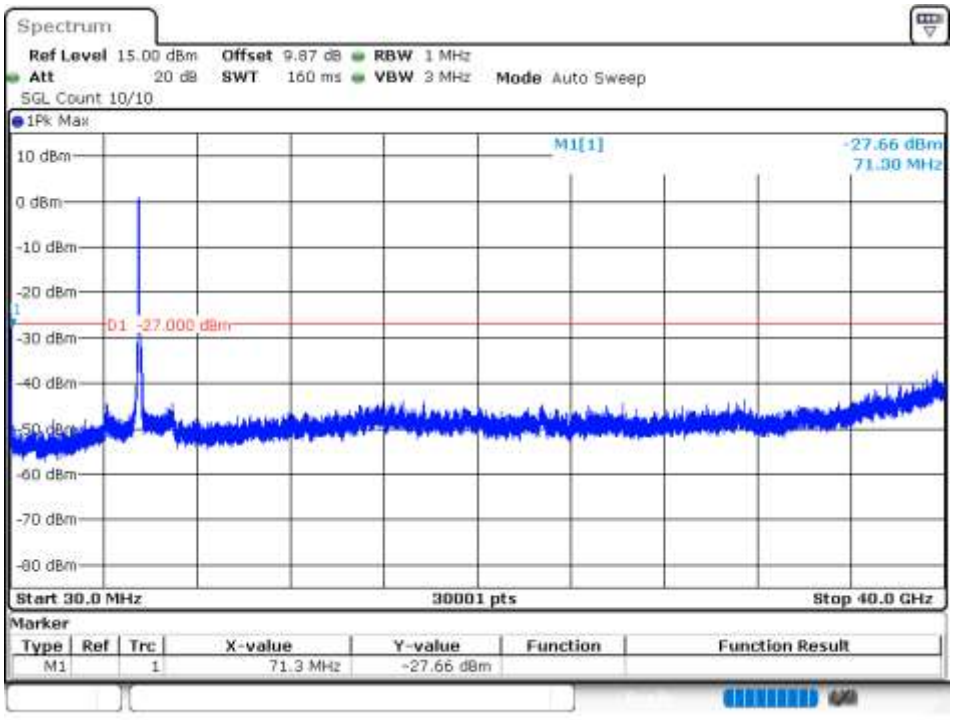
Tx. Spurious NVNT ac40 5510MHz Ant1 Emission



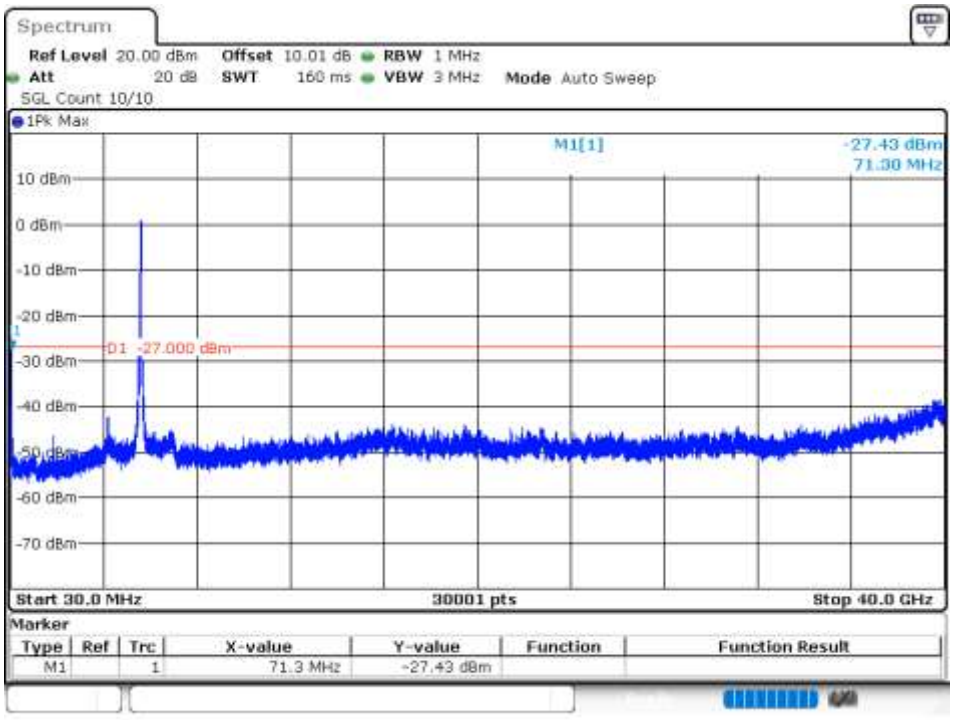
Tx. Spurious NVNT ac40 5590MHz Ant1 Emission



Tx. Spurious NVNT ac40 5670MHz Ant1 Emission


Tx. Spurious NVNT ac80 5530MHz Ant1 Emission


Tx. Spurious NVNT ac80 5610MHz Ant1 Emission

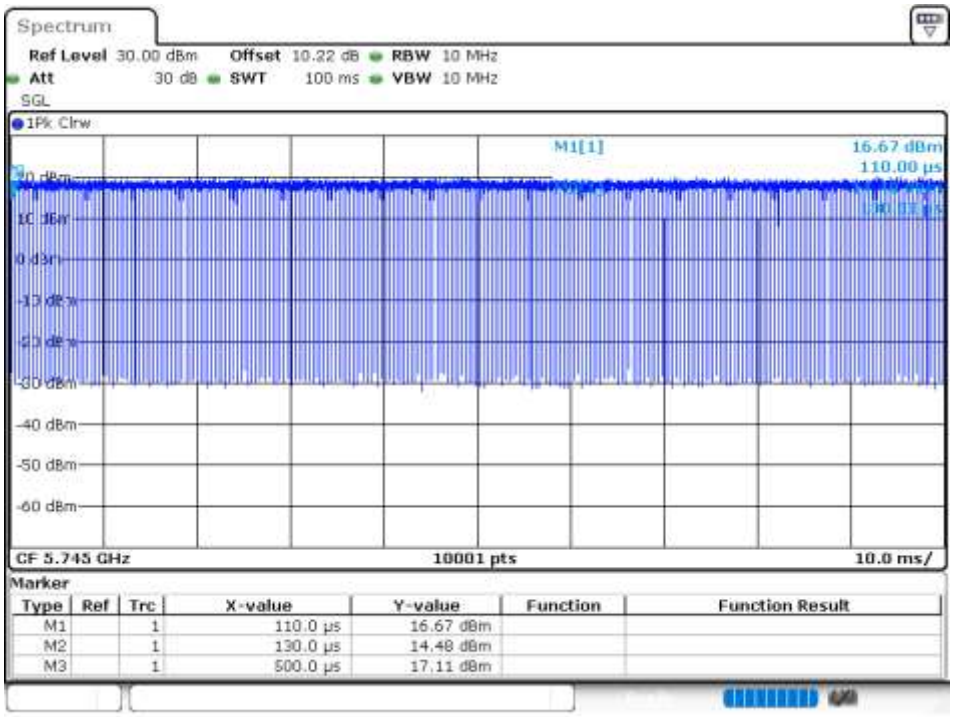


5.8G WIFI

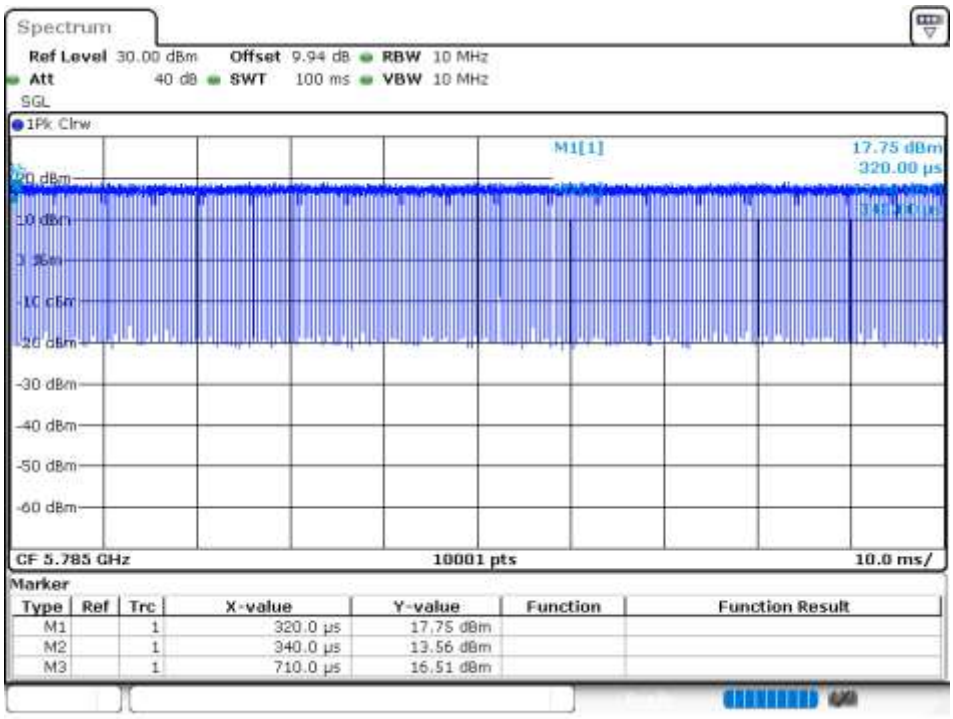
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	97.04	0.13	2.7
NVNT	a	5785	Ant1	97.05	0.13	2.7
NVNT	a	5825	Ant1	97.09	0.13	2.78
NVNT	n20	5745	Ant1	97.01	0.13	2.86
NVNT	n20	5785	Ant1	96.82	0.14	2.78
NVNT	n20	5825	Ant1	96.96	0.13	2.78
NVNT	n40	5755	Ant1	94.48	0.25	5.26
NVNT	n40	5795	Ant1	94.51	0.25	5.26
NVNT	ac20	5745	Ant1	96.79	0.14	3.03
NVNT	ac20	5785	Ant1	96.78	0.14	3.03
NVNT	ac20	5825	Ant1	96.77	0.14	3.03
NVNT	ac40	5755	Ant1	94.19	0.26	5.56
NVNT	ac40	5795	Ant1	94.21	0.26	5.56
NVNT	ac80	5775	Ant1	91.04	0.41	9.09

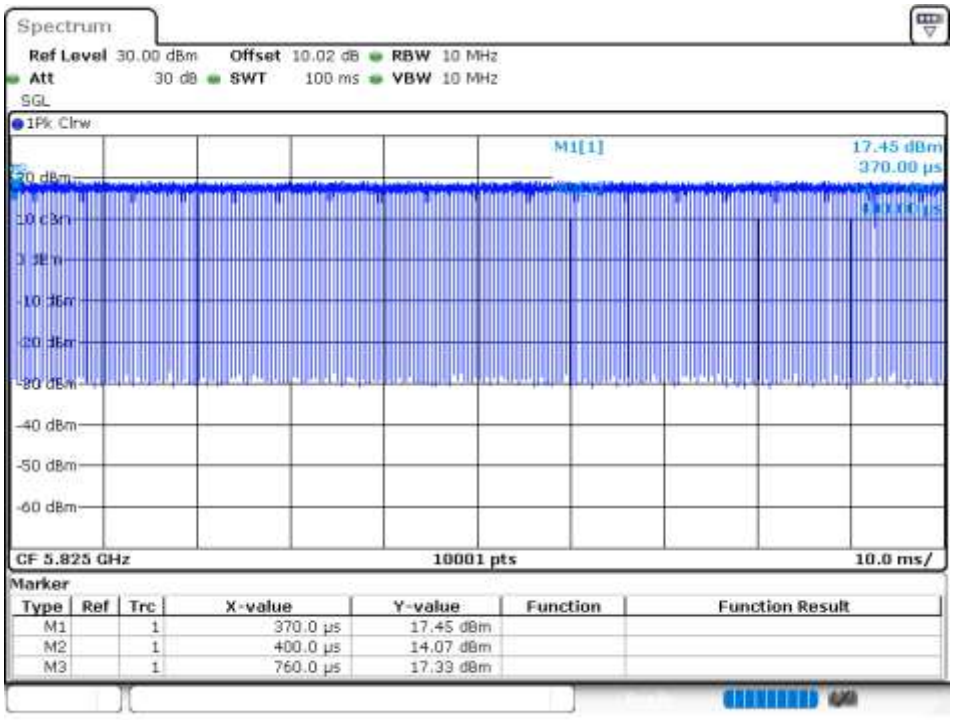
Test Graphs
Duty Cycle NVNT a 5745MHz Ant1



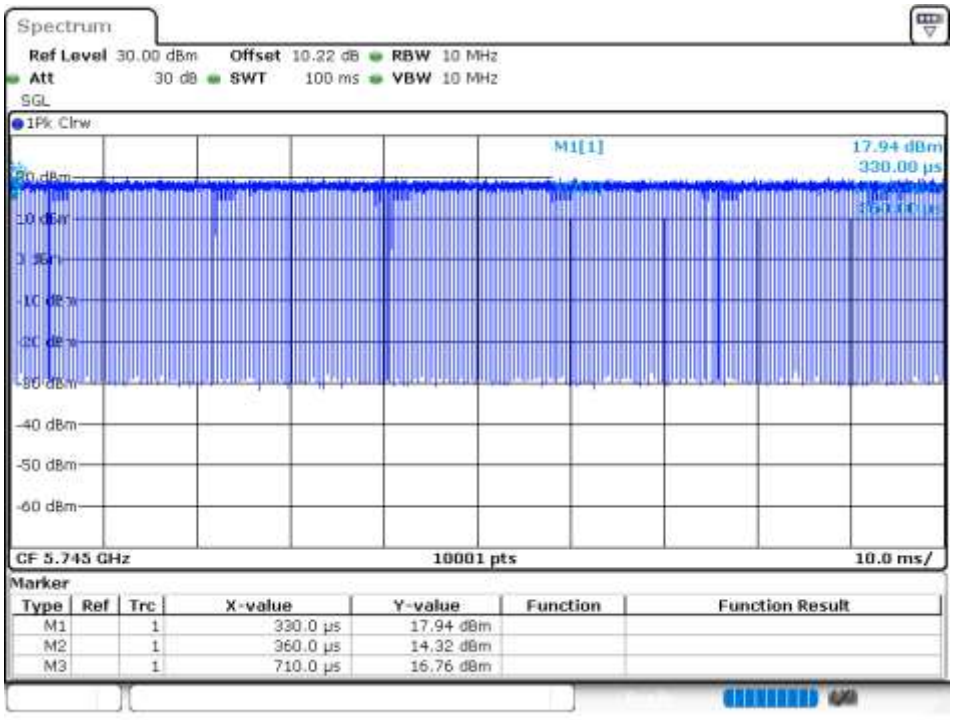
Duty Cycle NVNT a 5785MHz Ant1



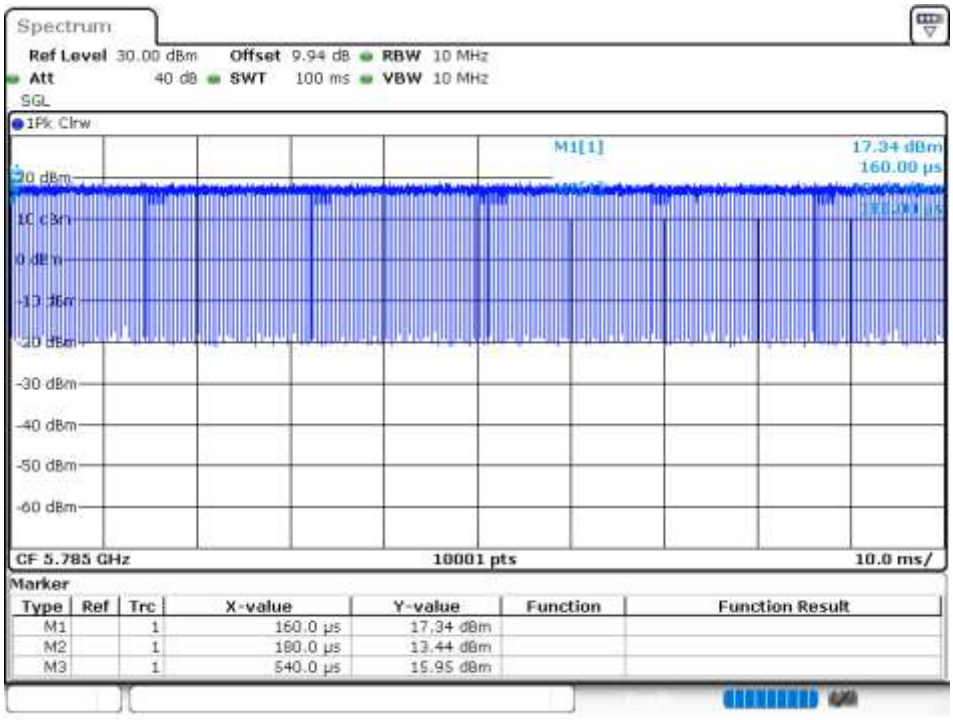
Duty Cycle NVNT a 5825MHz Ant1



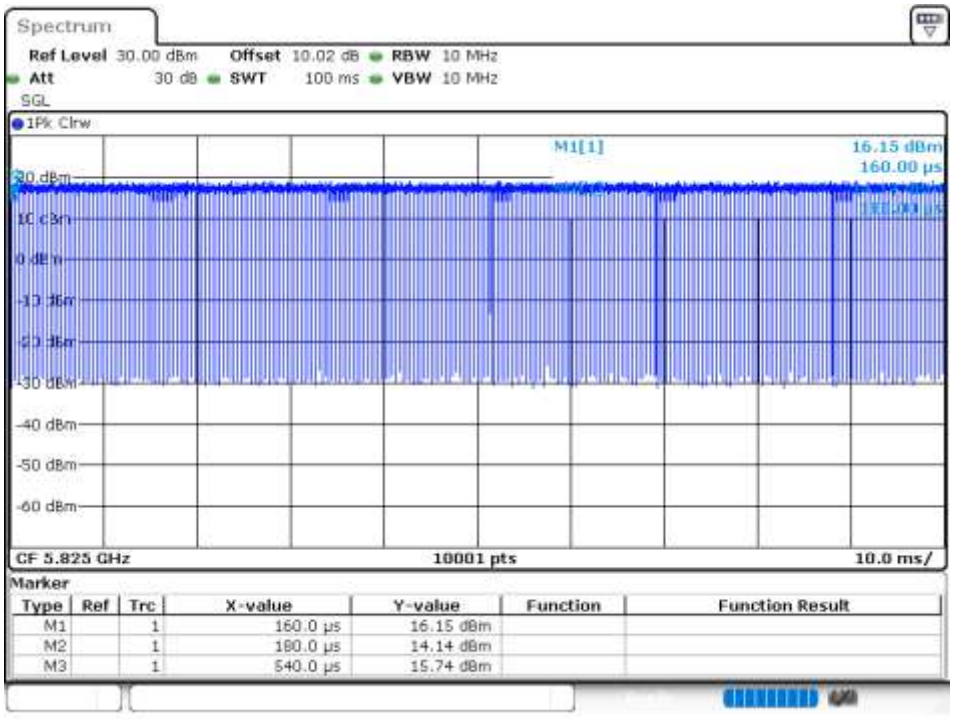
Duty Cycle NVNT n20 5745MHz Ant1



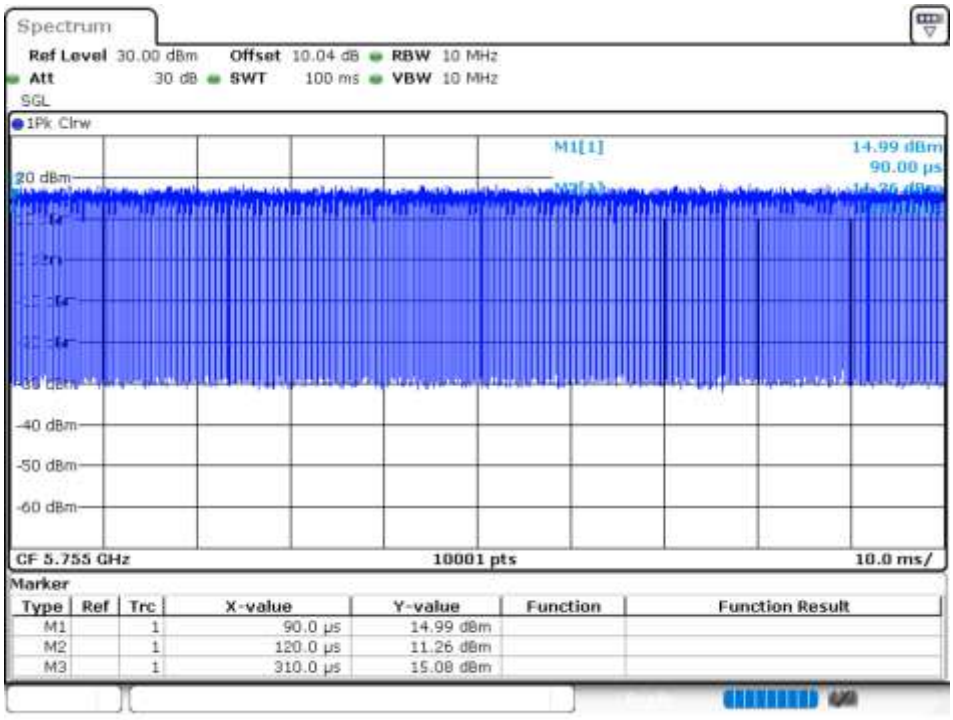
Duty Cycle NVNT n20 5785MHz Ant1



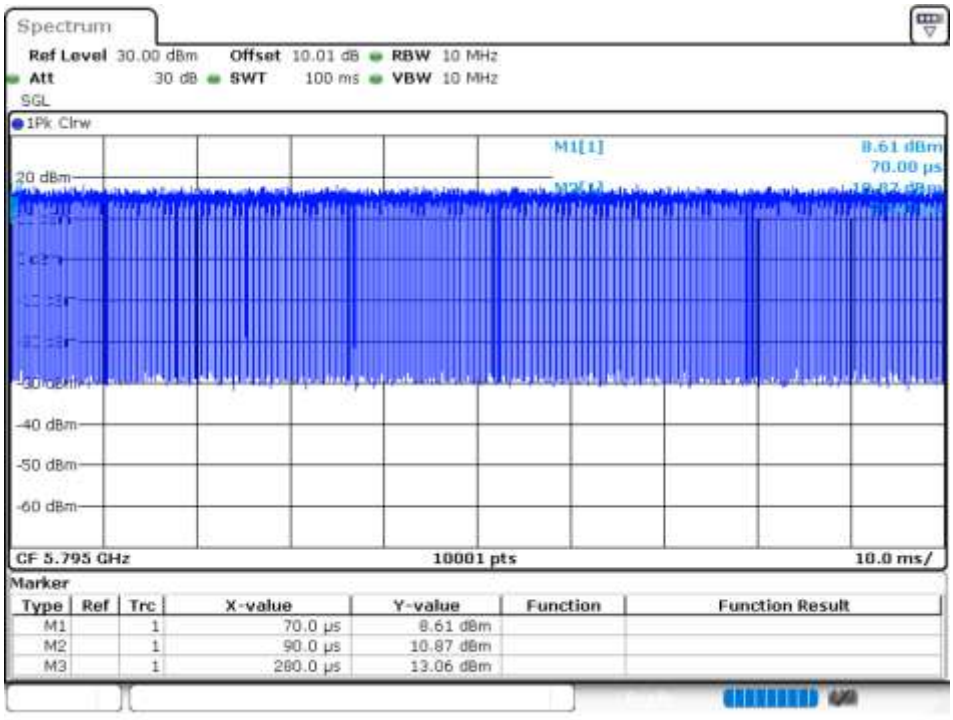
Duty Cycle NVNT n20 5825MHz Ant1



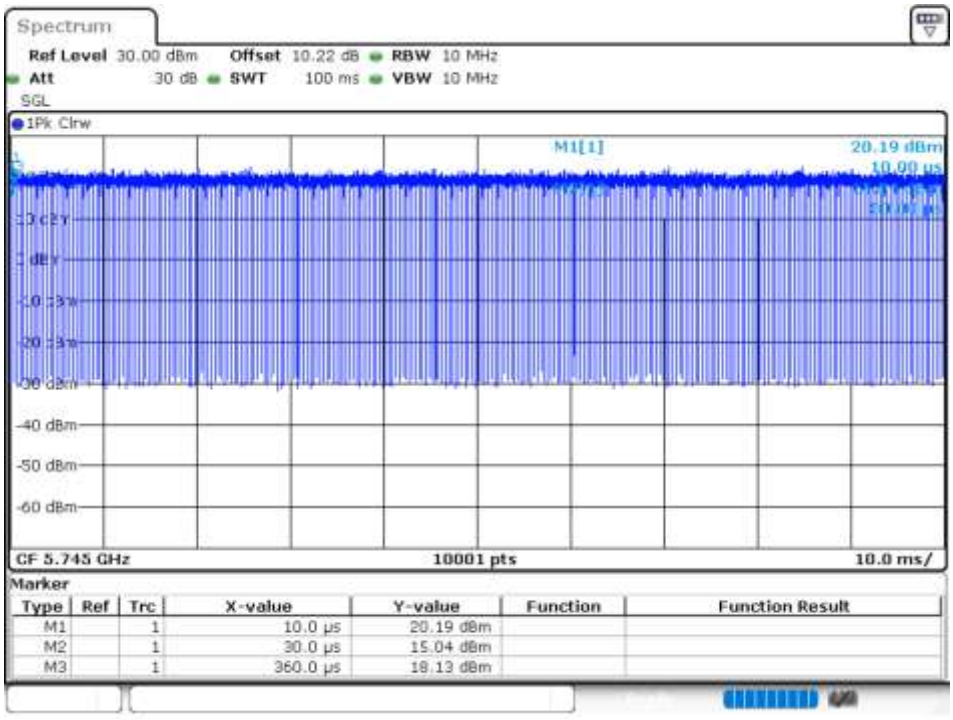
Duty Cycle NVNT n40 5755MHz Ant1



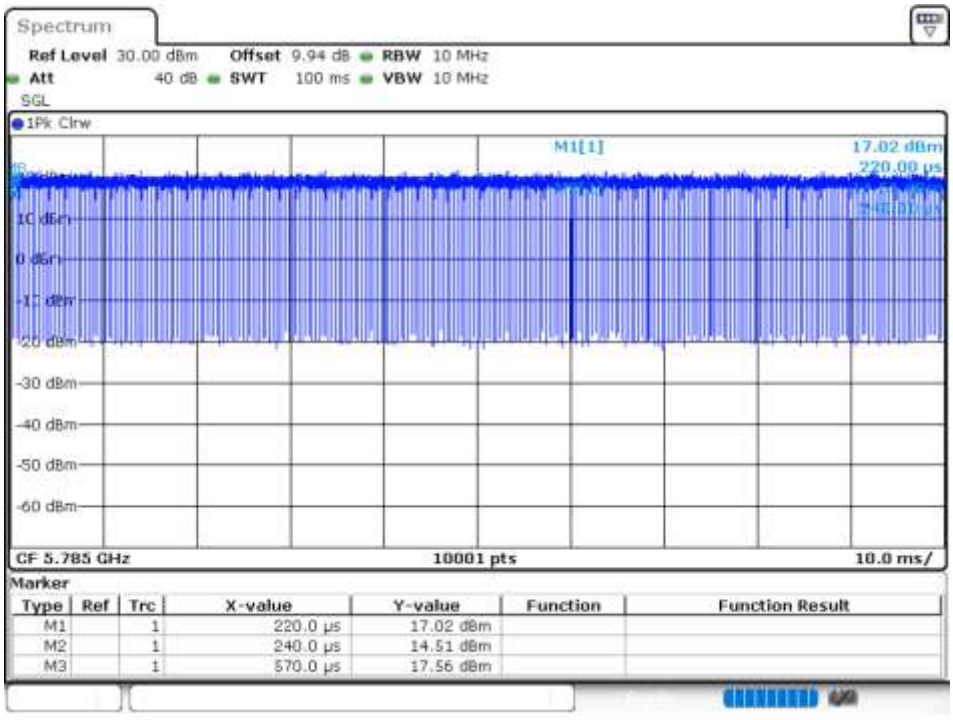
Duty Cycle NVNT n40 5795MHz Ant1



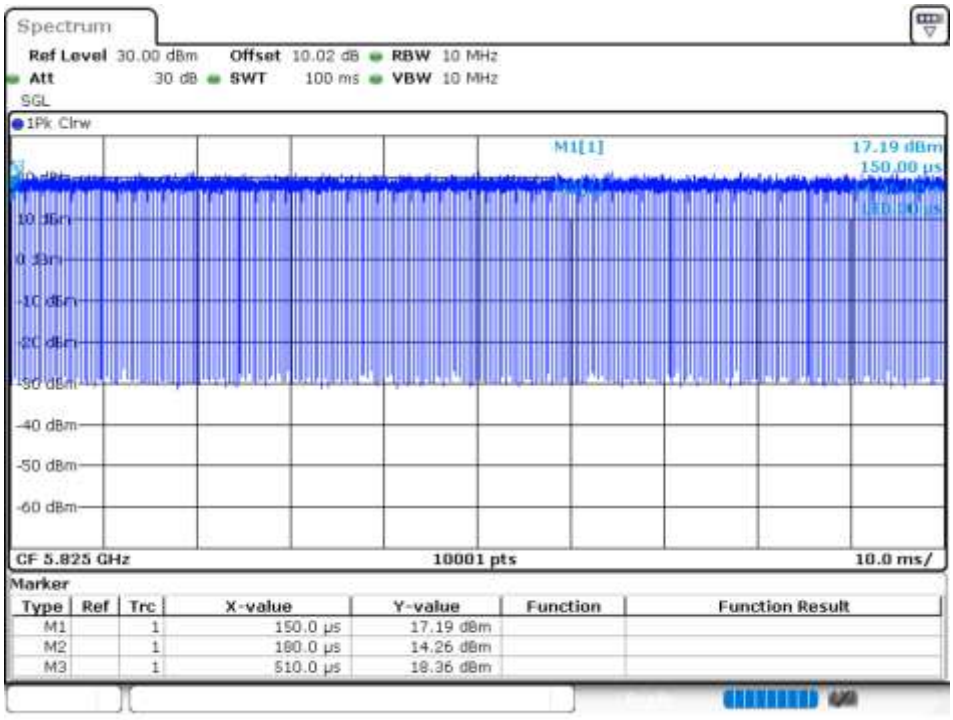
Duty Cycle NVNT ac20 5745MHz Ant1



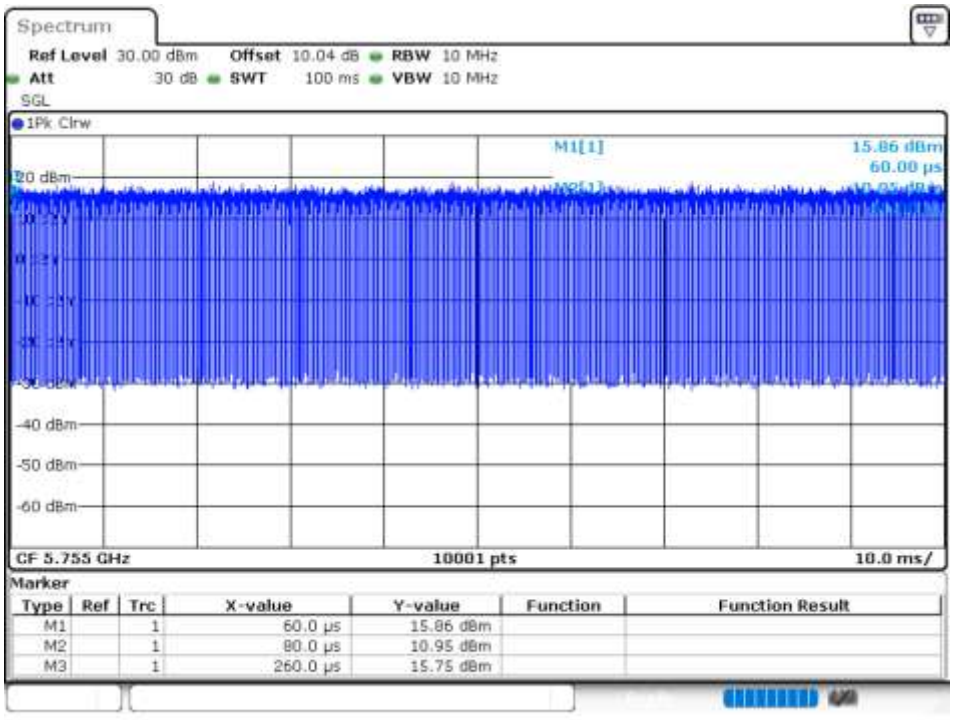
Duty Cycle NVNT ac20 5785MHz Ant1



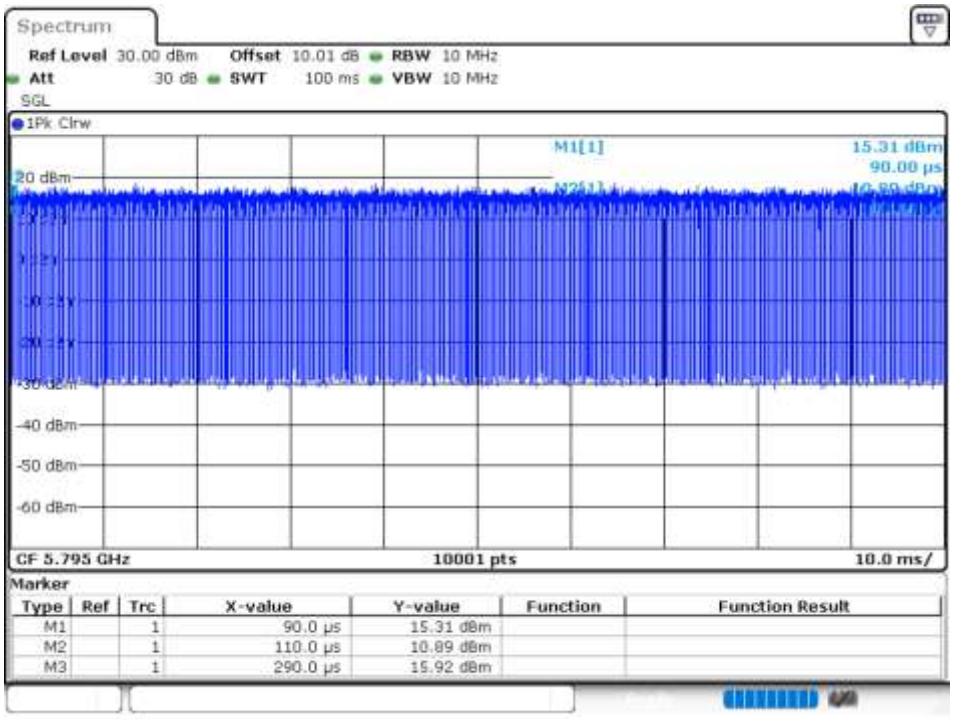
Duty Cycle NVNT ac20 5825MHz Ant1



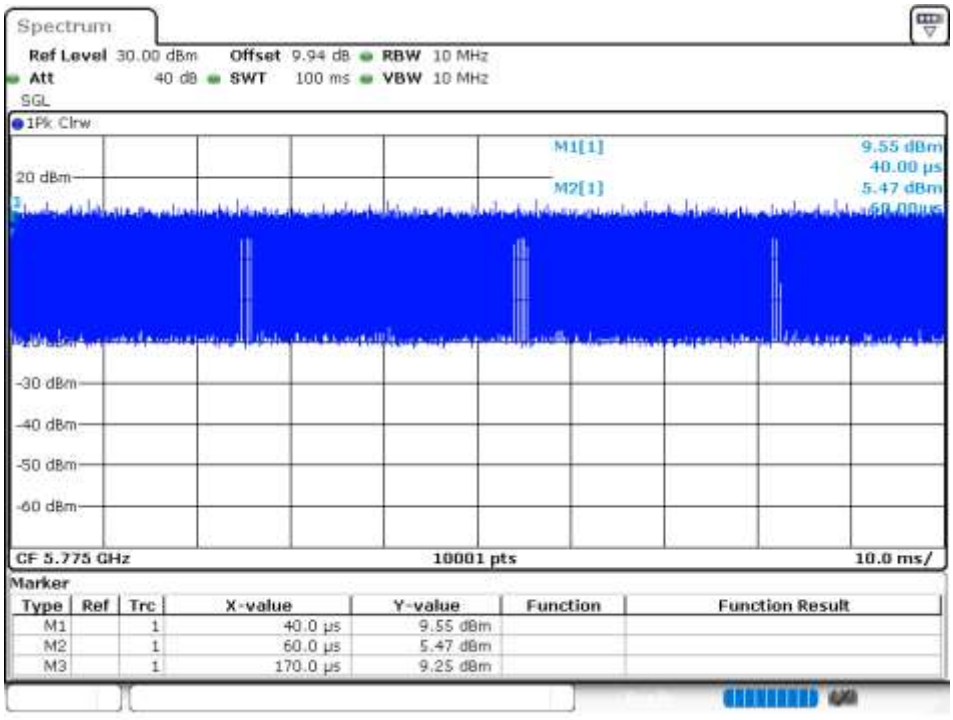
Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



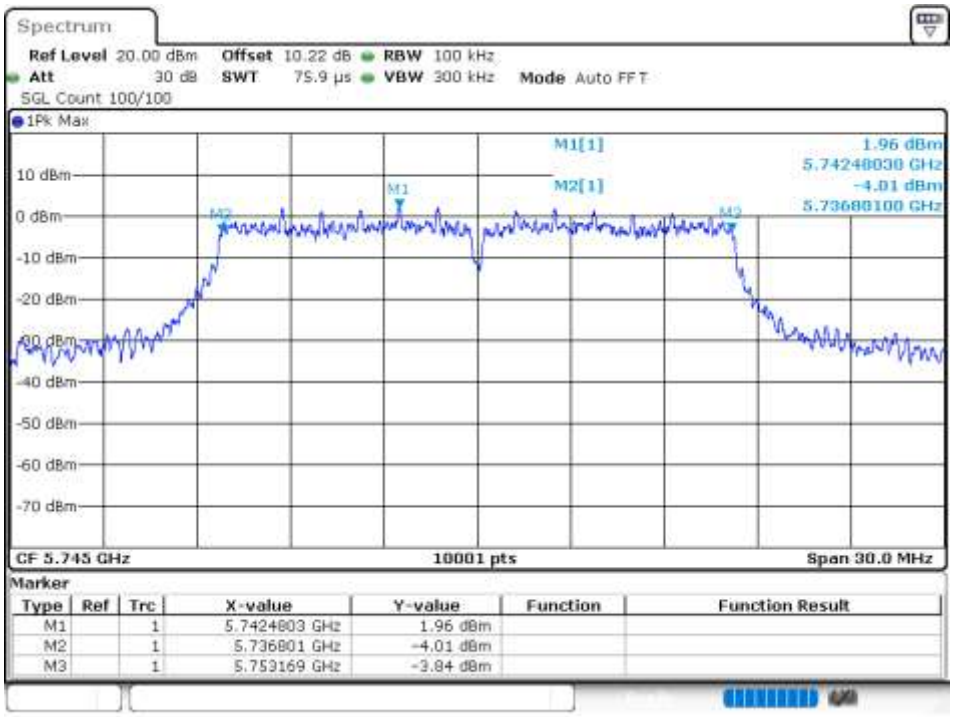
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.44	0.13	12.57	30	Pass
NVNT	a	5785	Ant1	12.05	0.13	12.18	30	Pass
NVNT	a	5825	Ant1	12.52	0.13	12.65	30	Pass
NVNT	n20	5745	Ant1	12.49	0.13	12.62	30	Pass
NVNT	n20	5785	Ant1	12.15	0.14	12.29	30	Pass
NVNT	n20	5825	Ant1	12.78	0.13	12.91	30	Pass
NVNT	n40	5755	Ant1	13.24	0.25	13.49	30	Pass
NVNT	n40	5795	Ant1	12.65	0.25	12.9	30	Pass
NVNT	ac20	5745	Ant1	12.91	0.14	13.05	30	Pass
NVNT	ac20	5785	Ant1	12.95	0.14	13.09	30	Pass
NVNT	ac20	5825	Ant1	12.61	0.14	12.75	30	Pass
NVNT	ac40	5755	Ant1	13.21	0.26	13.47	30	Pass
NVNT	ac40	5795	Ant1	12.61	0.26	12.87	30	Pass
NVNT	ac80	5775	Ant1	11.65	0.41	12.06	30	Pass

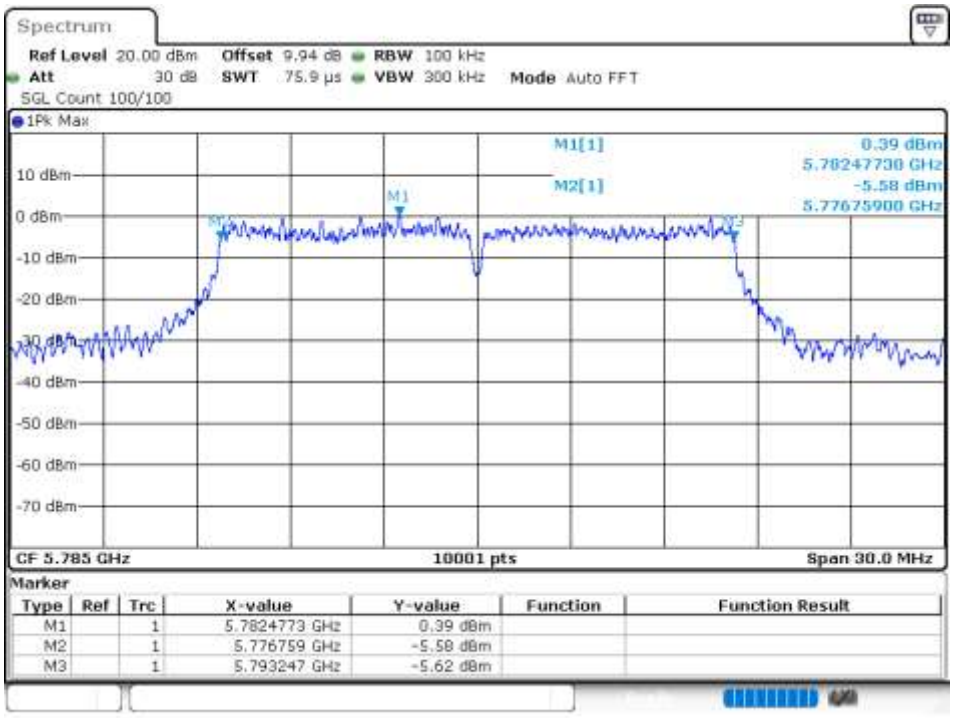
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.368	0.5	Pass
NVNT	a	5785	Ant1	16.488	0.5	Pass
NVNT	a	5825	Ant1	16.53	0.5	Pass
NVNT	n20	5745	Ant1	17.568	0.5	Pass
NVNT	n20	5785	Ant1	17.568	0.5	Pass
NVNT	n20	5825	Ant1	17.565	0.5	Pass
NVNT	n40	5755	Ant1	35.778	0.5	Pass
NVNT	n40	5795	Ant1	35.712	0.5	Pass
NVNT	ac20	5745	Ant1	17.55	0.5	Pass
NVNT	ac20	5785	Ant1	17.562	0.5	Pass
NVNT	ac20	5825	Ant1	17.547	0.5	Pass
NVNT	ac40	5755	Ant1	35.214	0.5	Pass
NVNT	ac40	5795	Ant1	35.526	0.5	Pass
NVNT	ac80	5775	Ant1	76.416	0.5	Pass

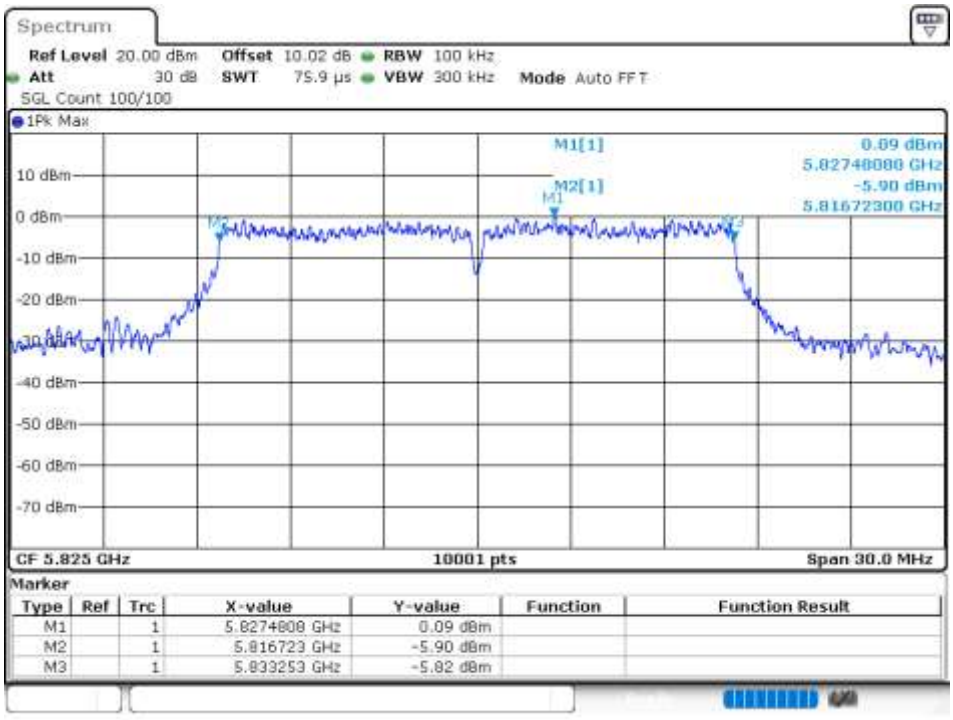
Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1



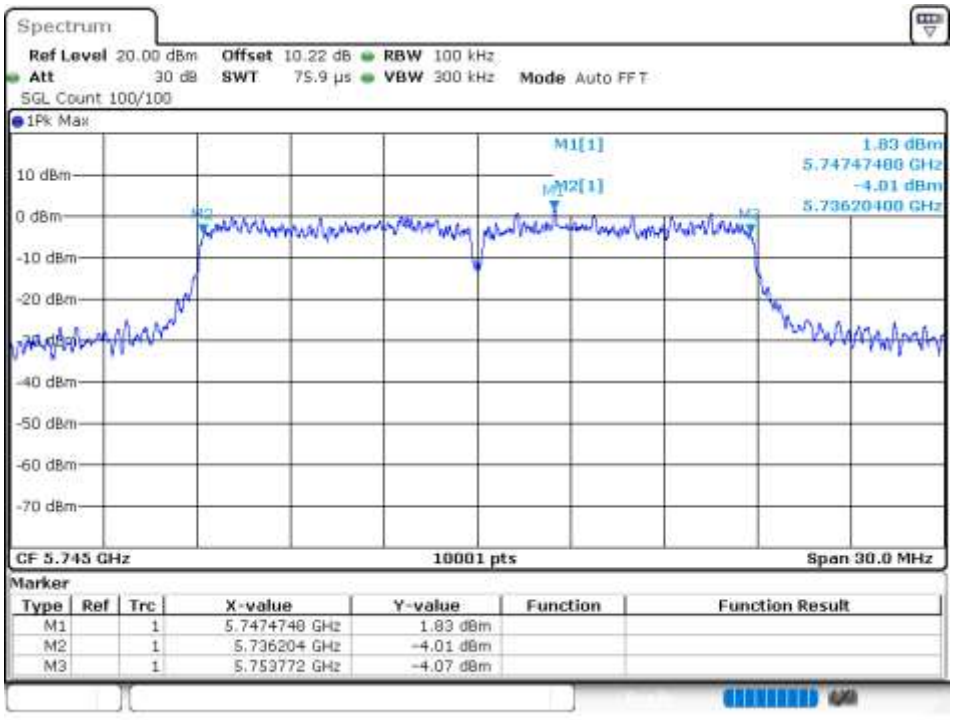
-6dB Bandwidth NVNT a 5785MHz Ant1



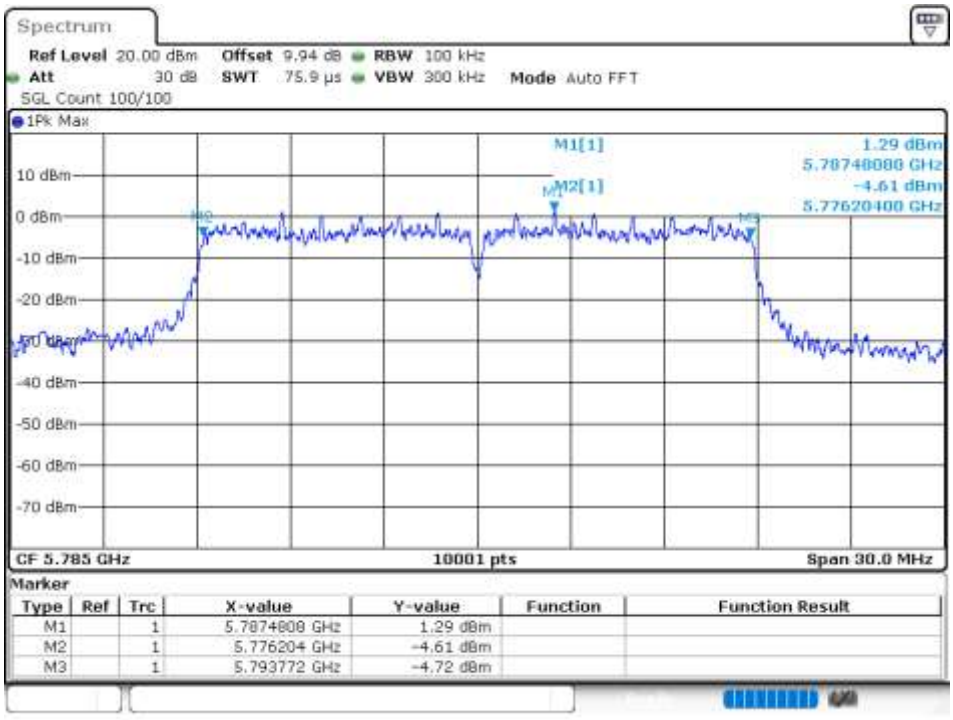
-6dB Bandwidth NVNT a 5825MHz Ant1



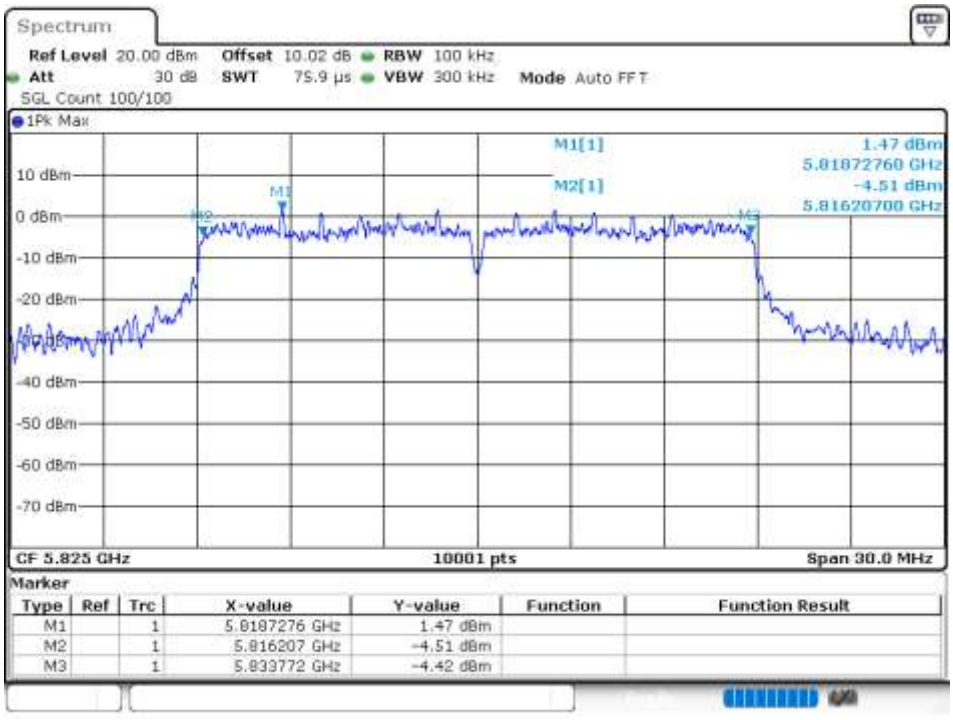
-6dB Bandwidth NVNT n20 5745MHz Ant1



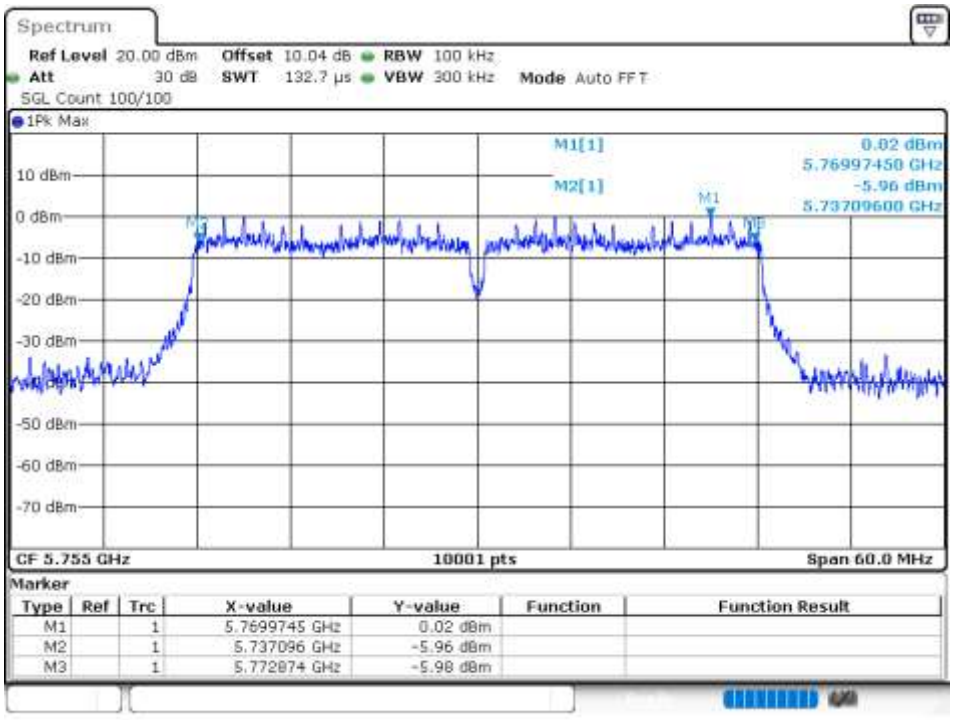
-6dB Bandwidth NVNT n20 5785MHz Ant1



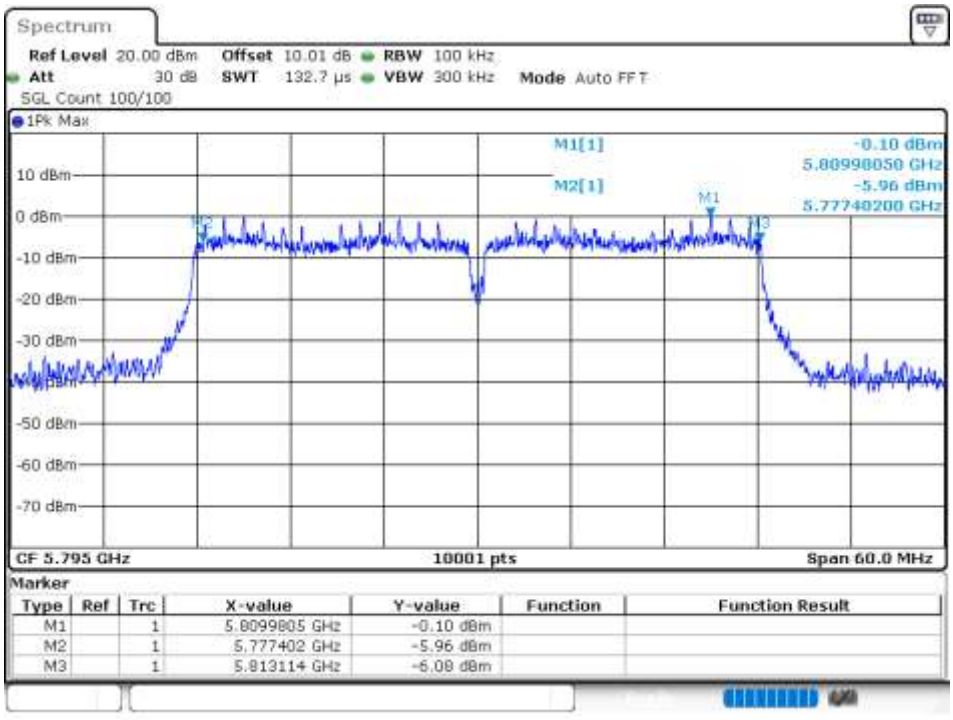
-6dB Bandwidth NVNT n20 5825MHz Ant1



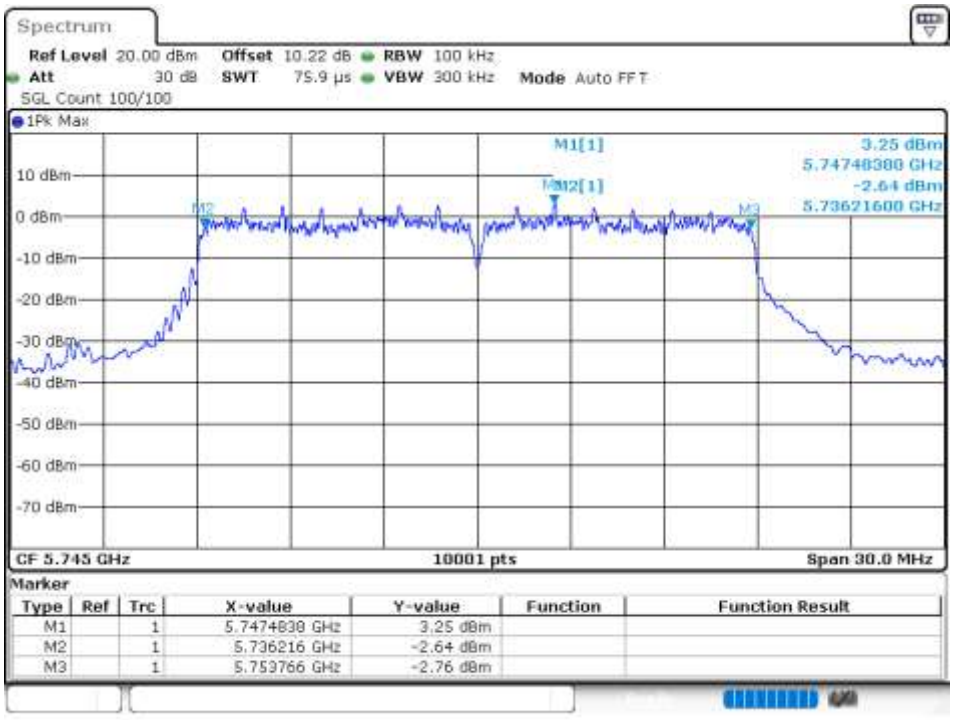
-6dB Bandwidth NVNT n40 5755MHz Ant1



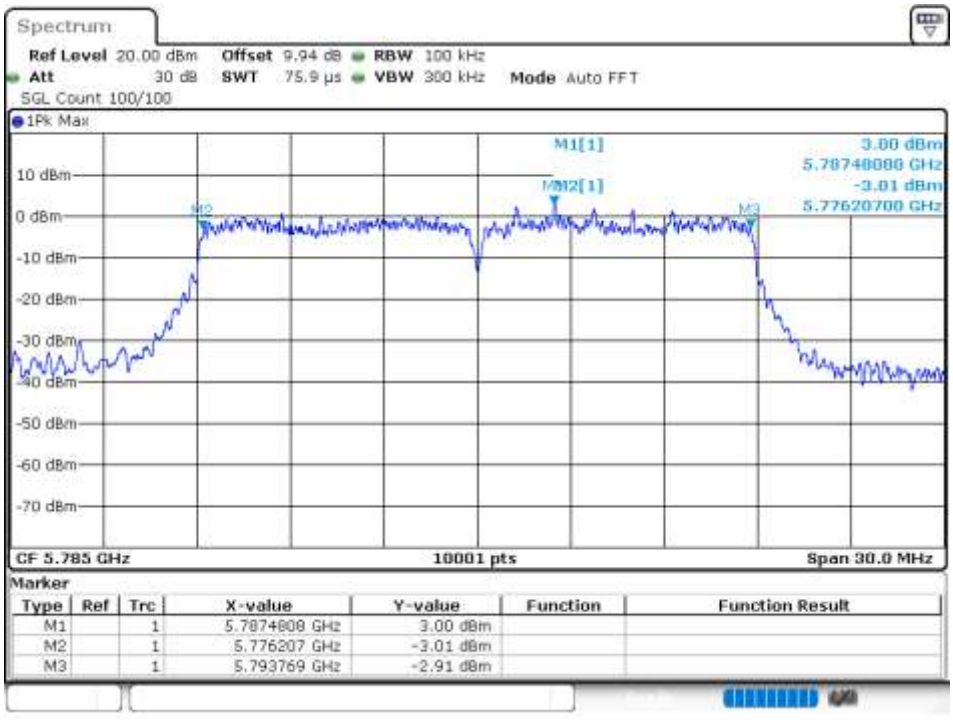
-6dB Bandwidth NVNT n40 5795MHz Ant1



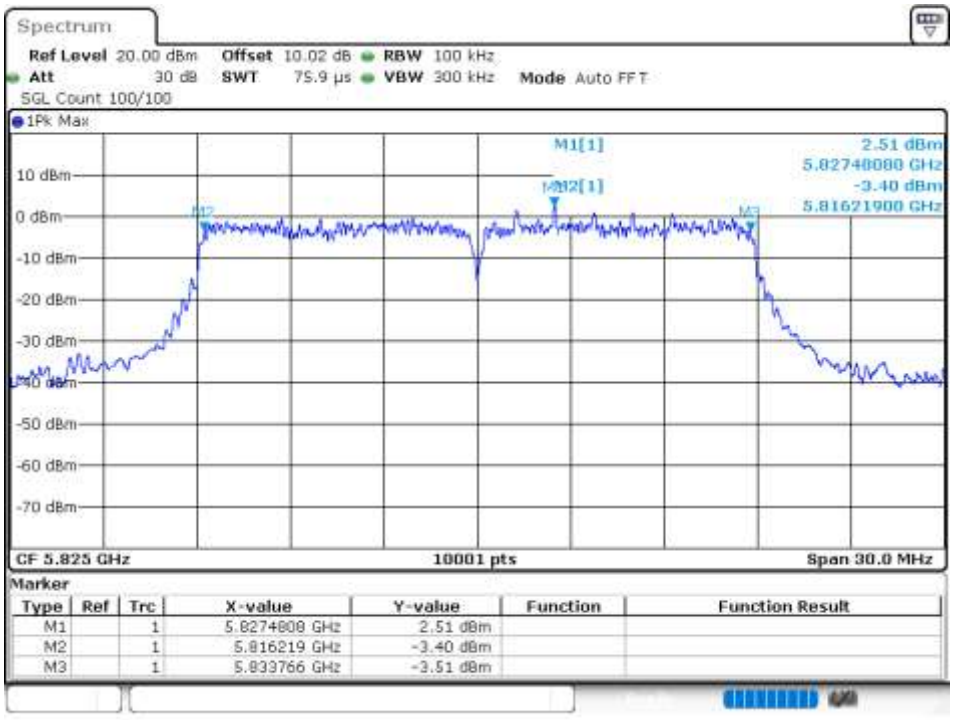
-6dB Bandwidth NVNT ac20 5745MHz Ant1



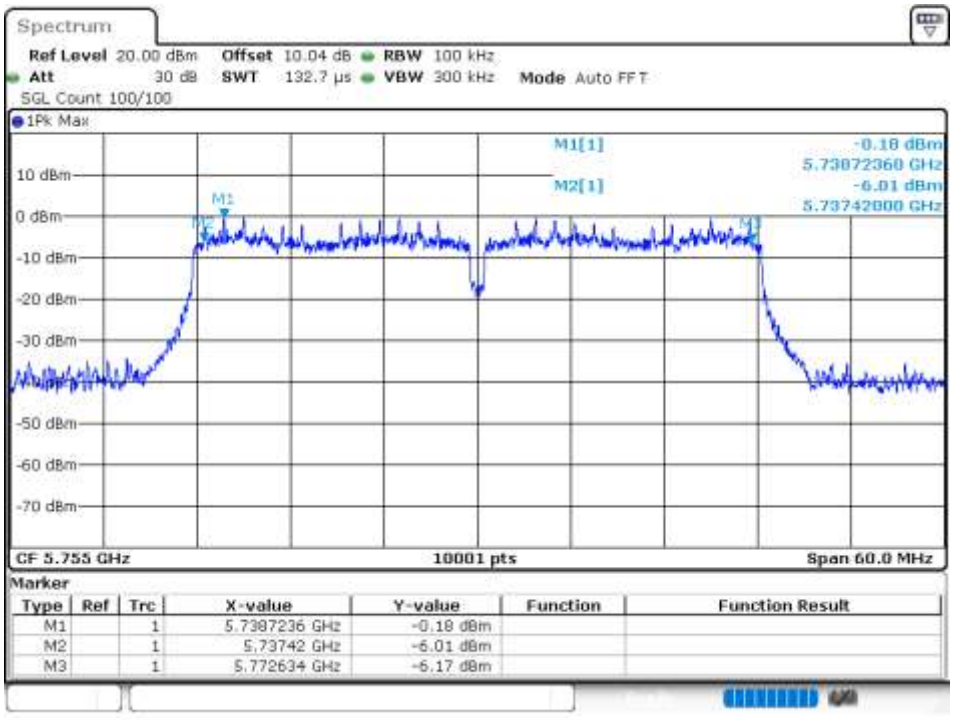
-6dB Bandwidth NVNT ac20 5785MHz Ant1



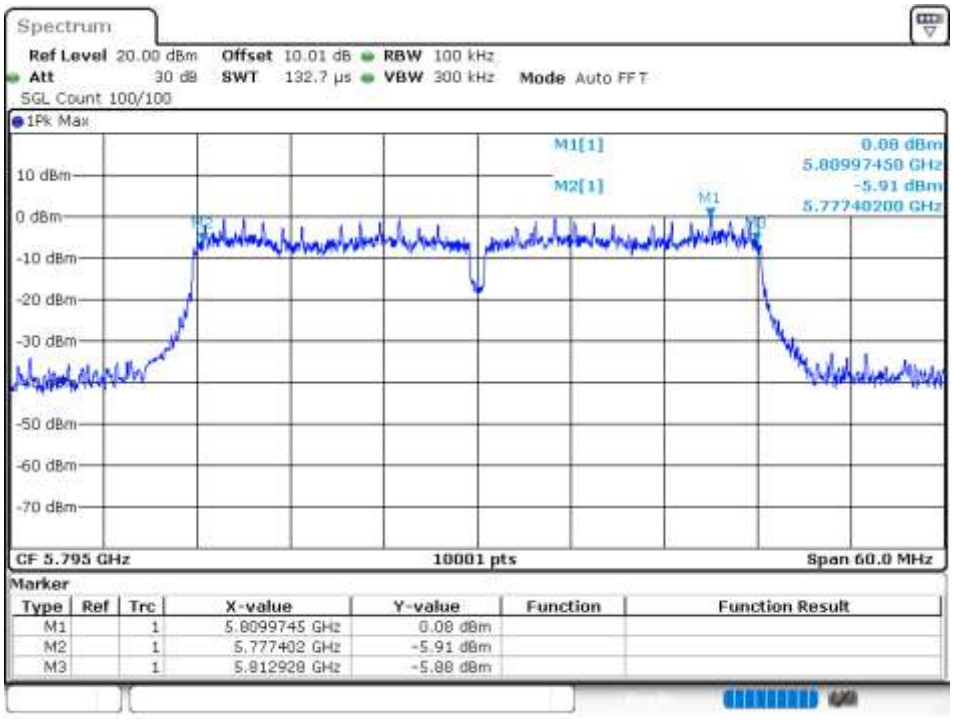
-6dB Bandwidth NVNT ac20 5825MHz Ant1



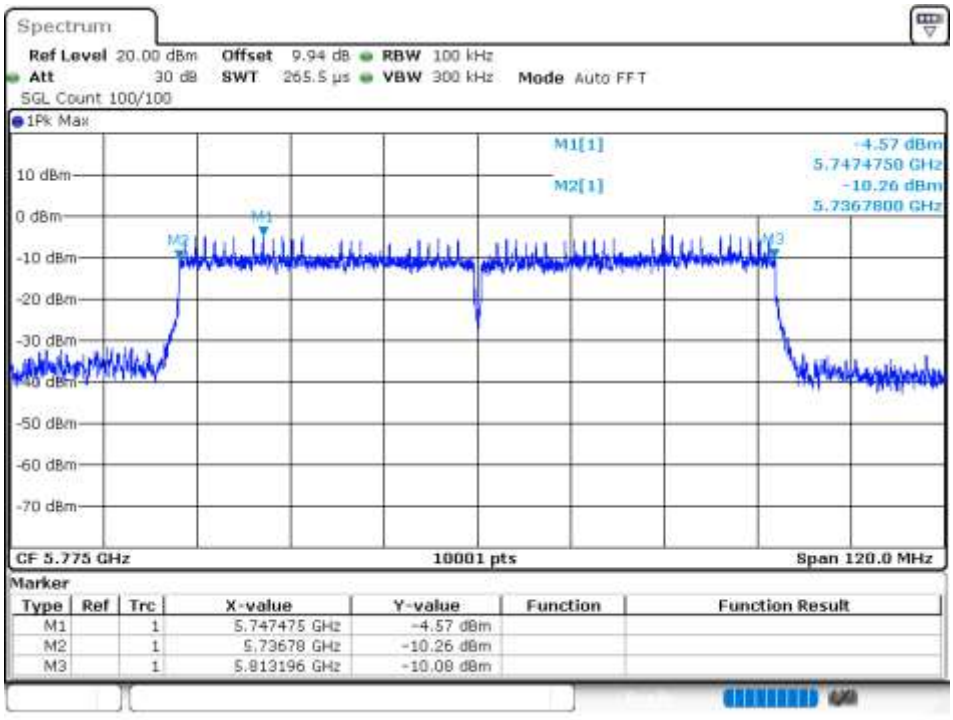
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



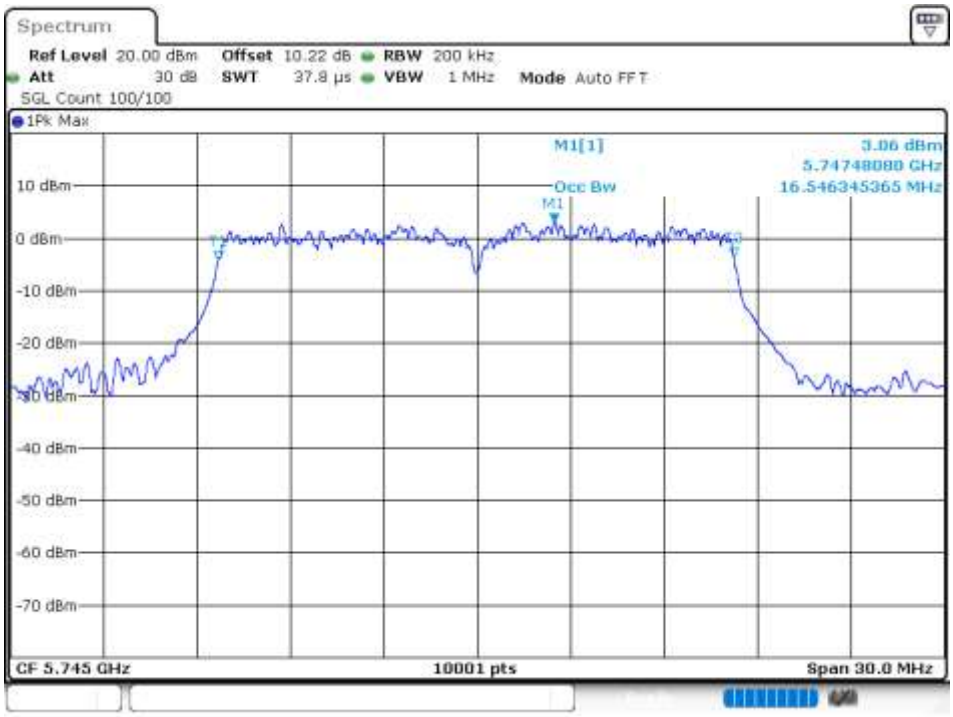
-6dB Bandwidth NVNT ac80 5775MHz Ant1



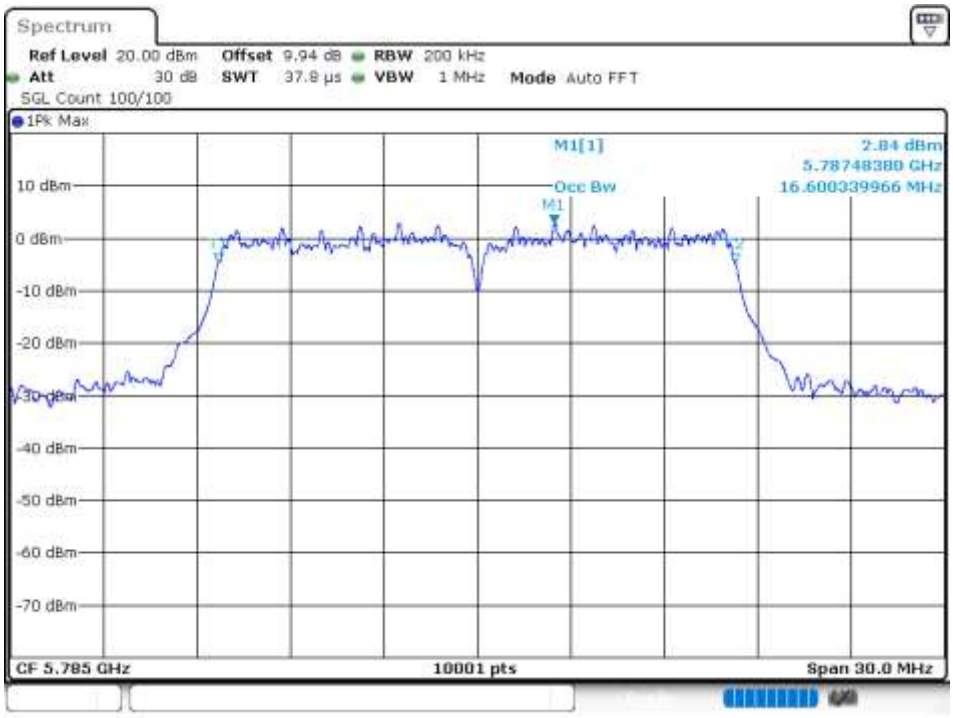
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.546
NVNT	a	5785	Ant1	16.6
NVNT	a	5825	Ant1	16.585
NVNT	n20	5745	Ant1	17.749
NVNT	n20	5785	Ant1	17.767
NVNT	n20	5825	Ant1	17.62
NVNT	n40	5755	Ant1	36.338
NVNT	n40	5795	Ant1	36.332
NVNT	ac20	5745	Ant1	17.692
NVNT	ac20	5785	Ant1	17.647
NVNT	ac20	5825	Ant1	17.677
NVNT	ac40	5755	Ant1	36.254
NVNT	ac40	5795	Ant1	36.284
NVNT	ac80	5775	Ant1	76.42

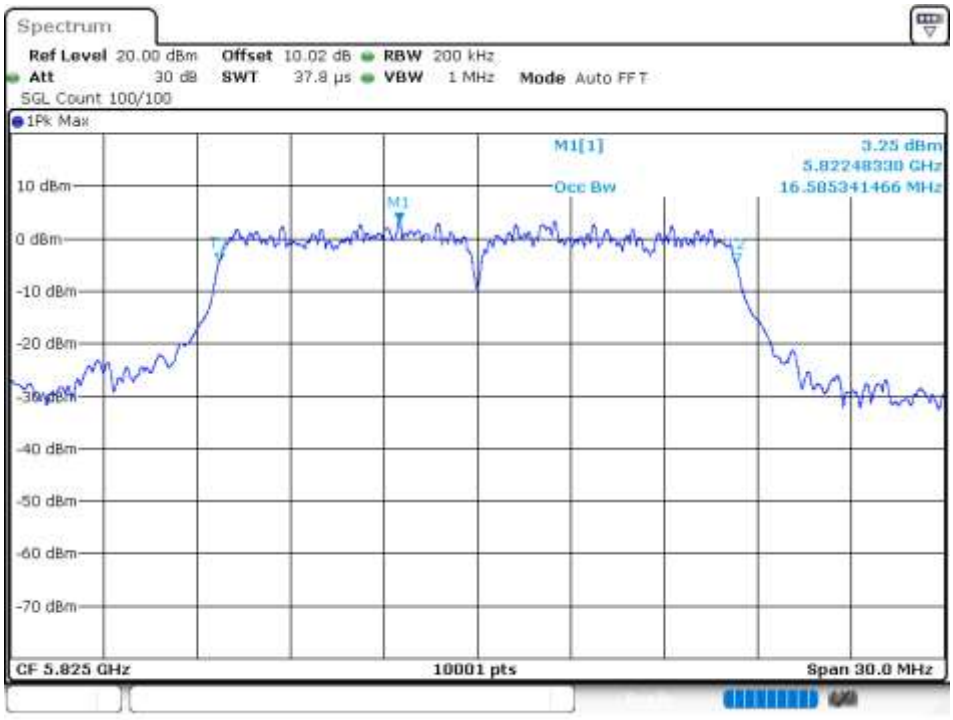
Test Graphs
OBW NVNT a 5745MHz Ant1



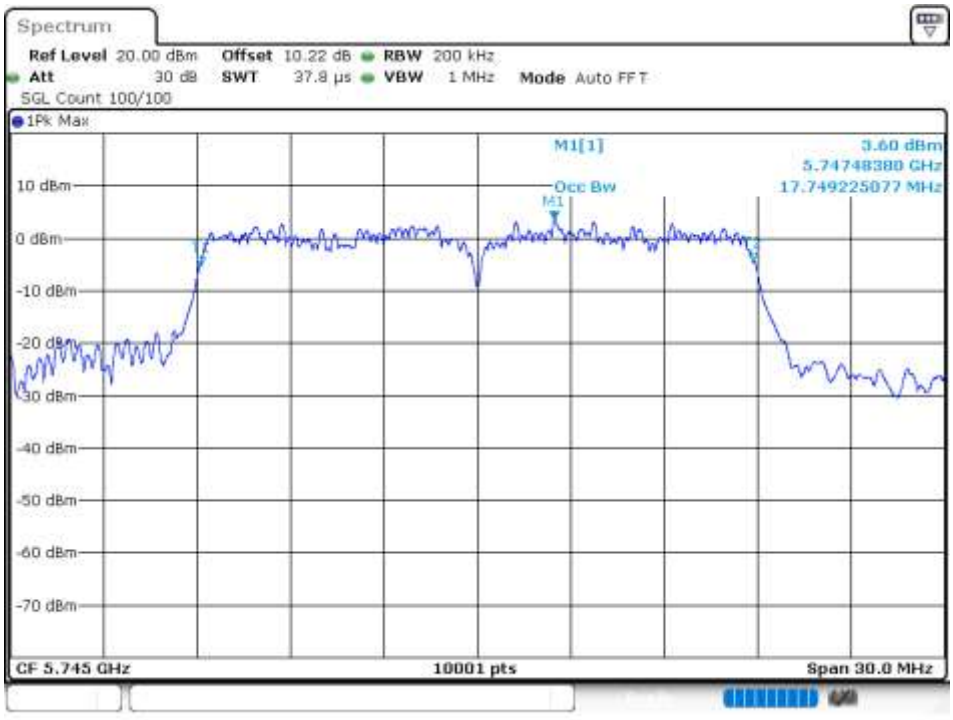
OBW NVNT a 5785MHz Ant1



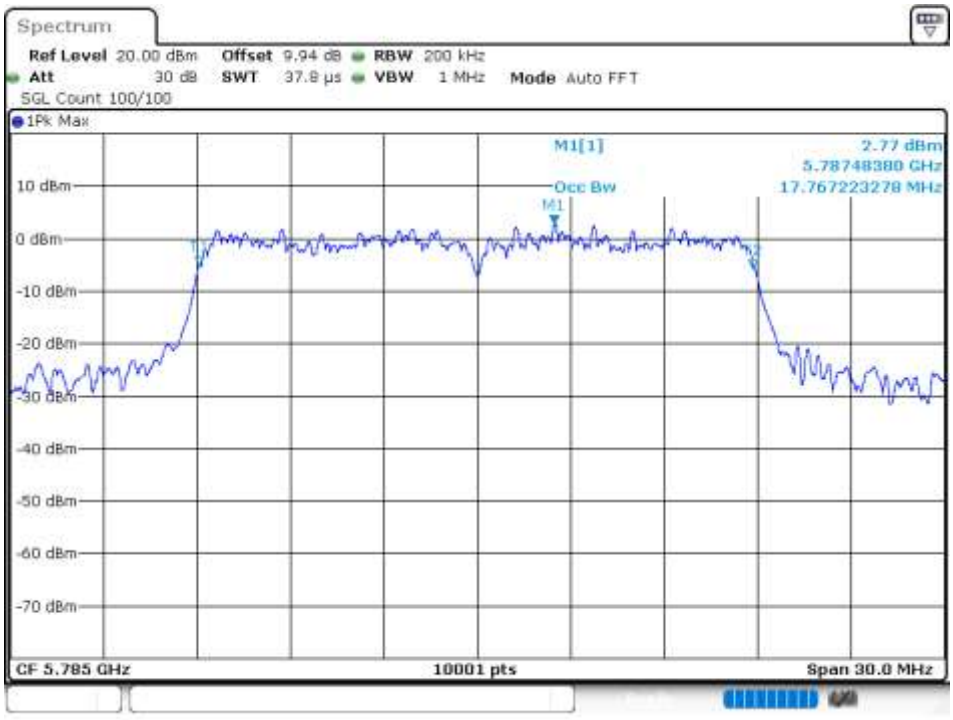
OBW NVNT a 5825MHz Ant1



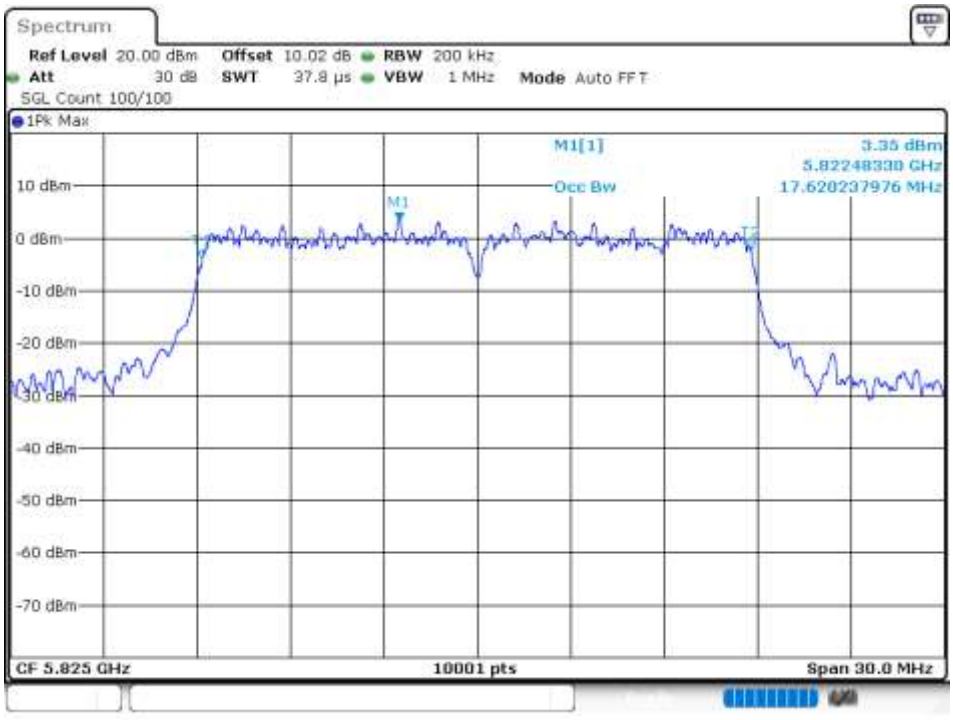
OBW NVNT n20 5745MHz Ant1



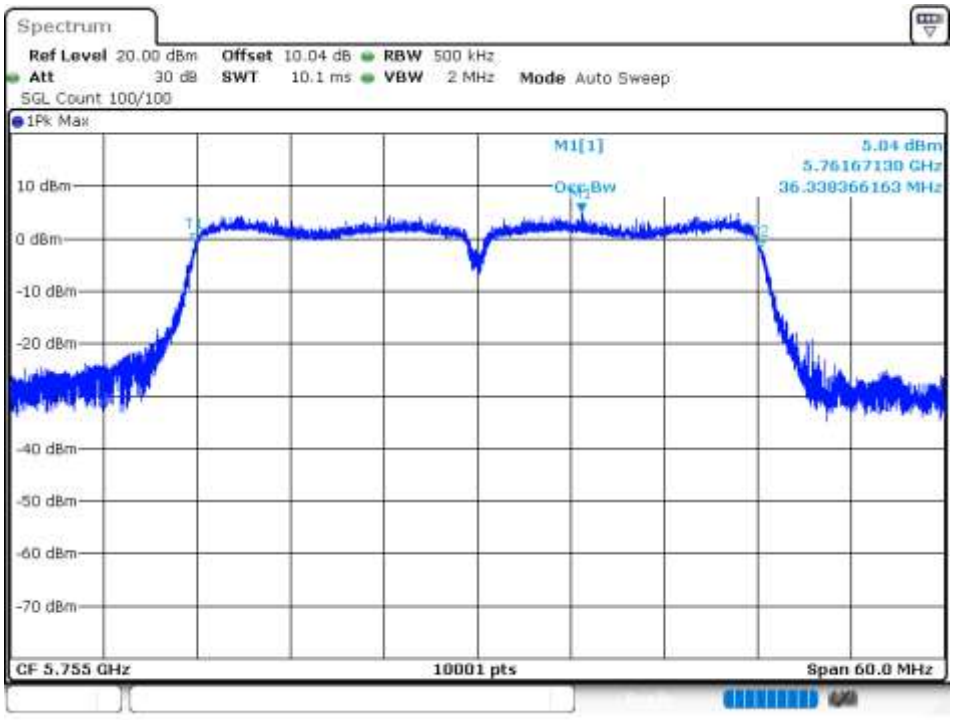
OBW NVNT n20 5785MHz Ant1



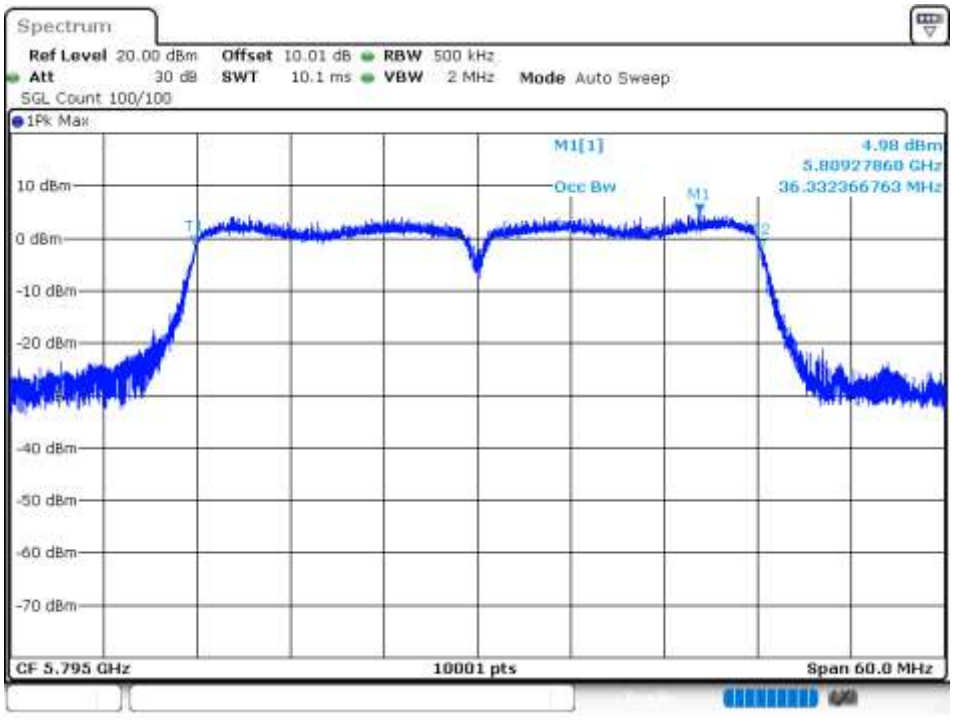
OBW NVNT n20 5825MHz Ant1



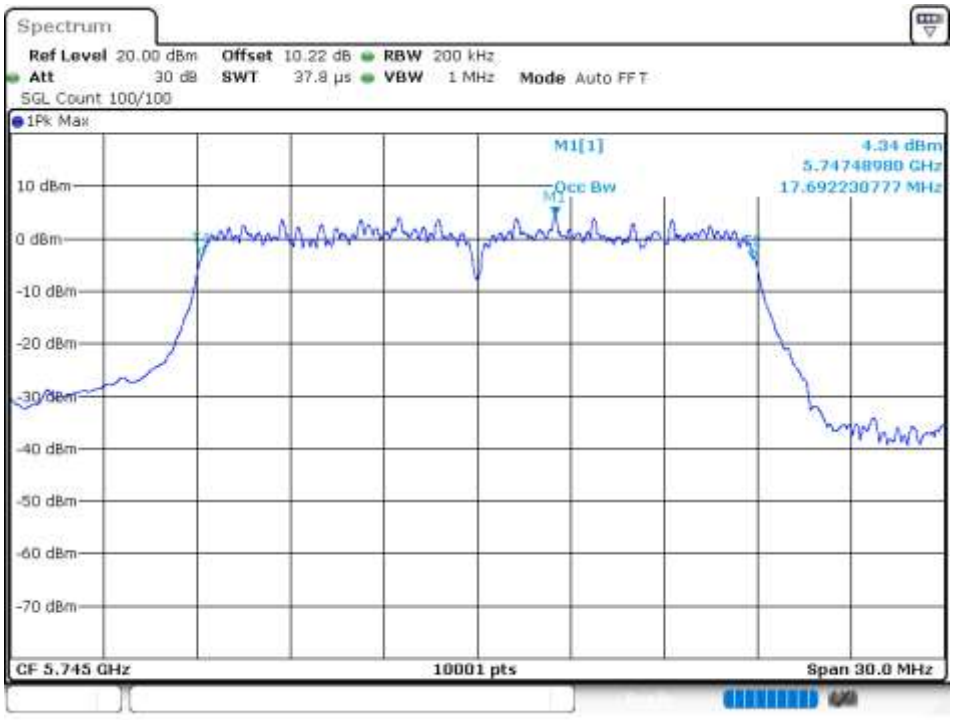
OBW NVNT n40 5755MHz Ant1



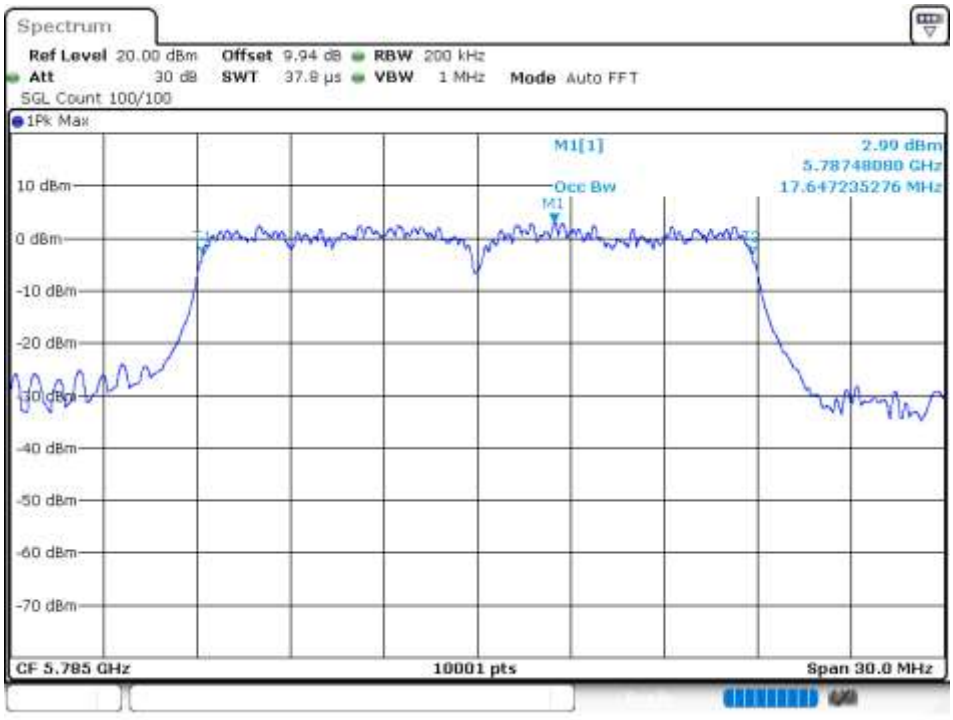
OBW NVNT n40 5795MHz Ant1



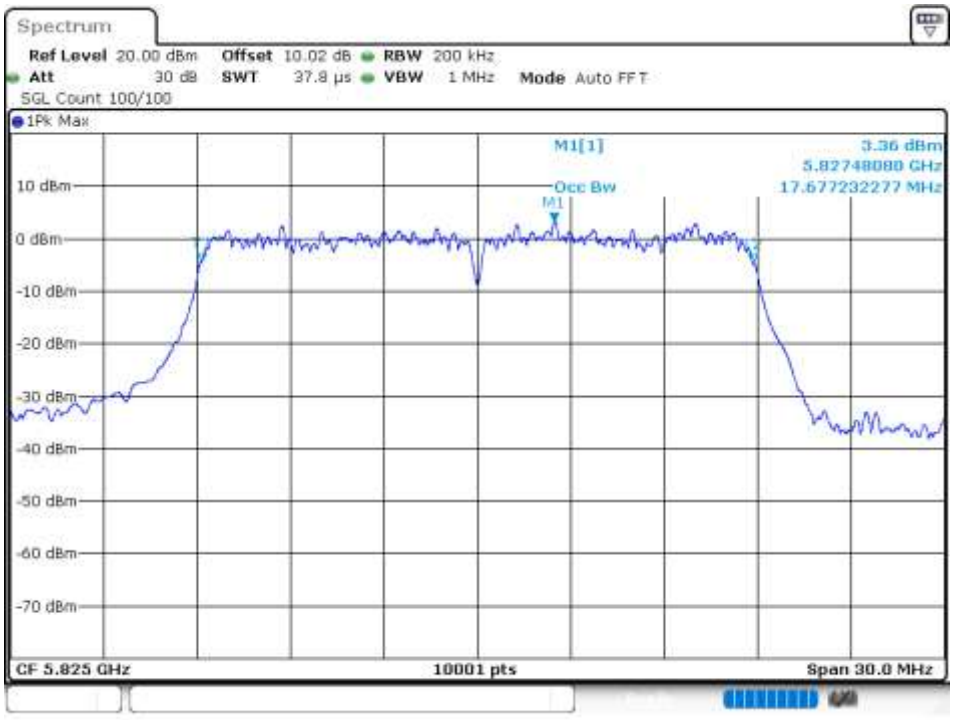
OBW NVNT ac20 5745MHz Ant1



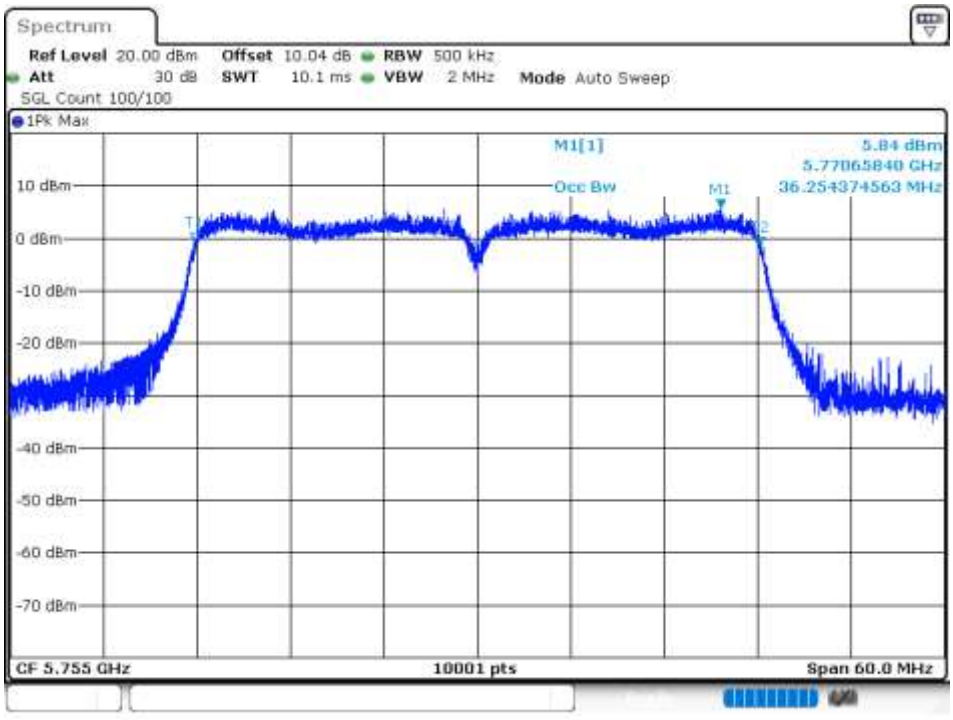
OBW NVNT ac20 5785MHz Ant1



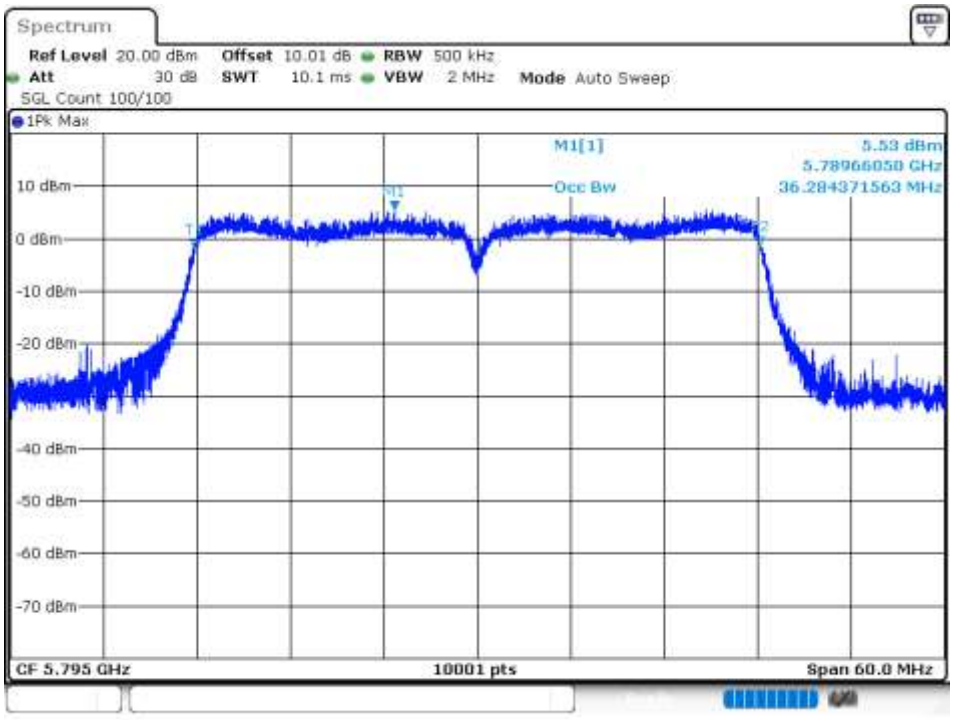
OBW NVNT ac20 5825MHz Ant1



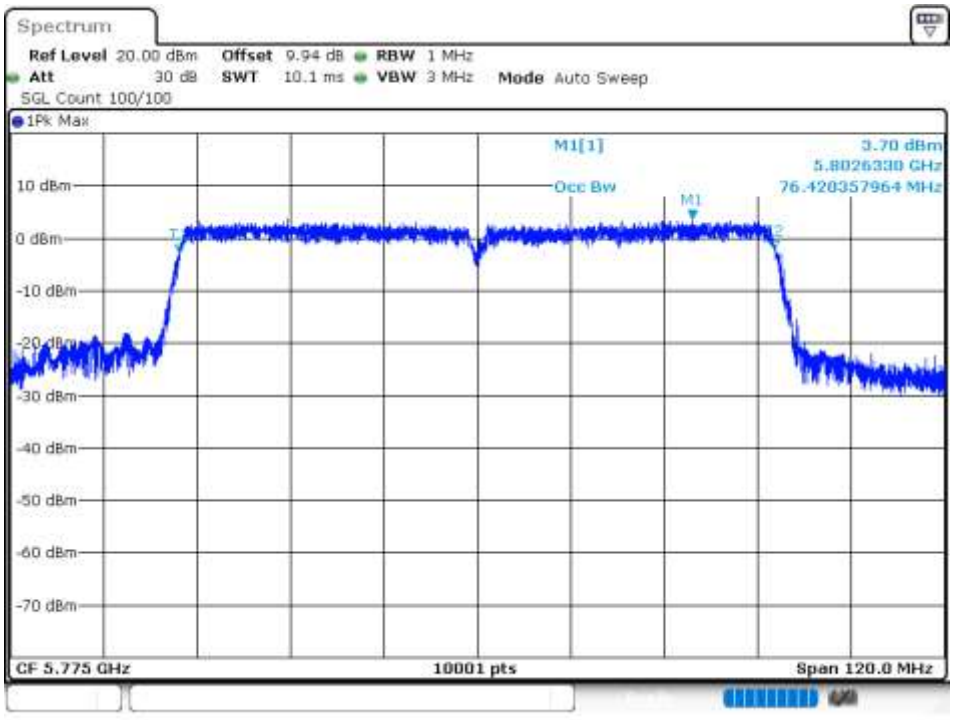
OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1

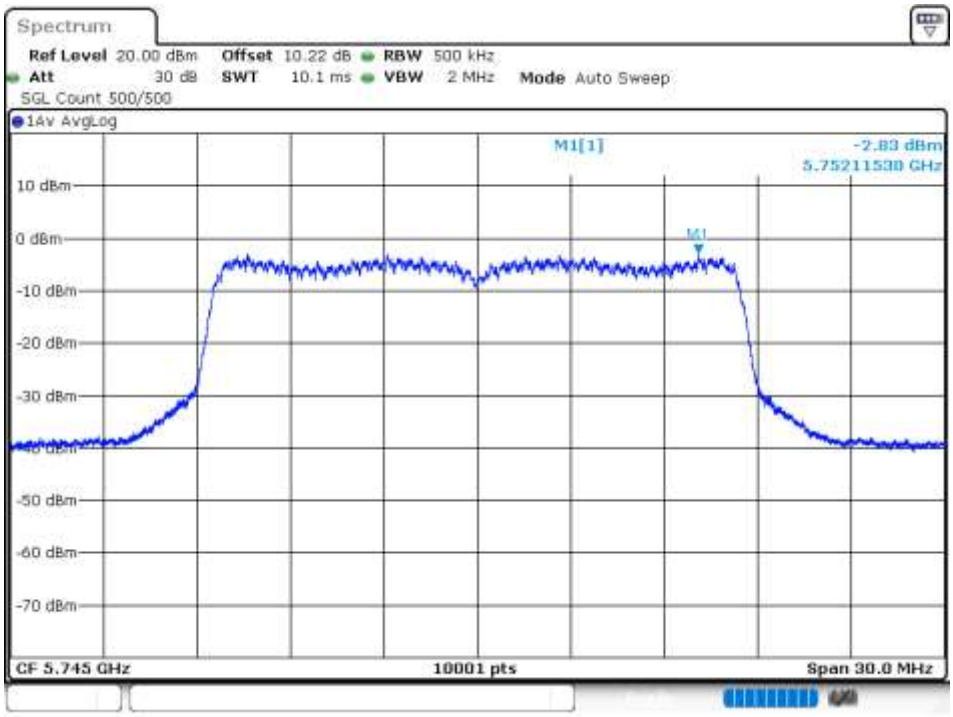
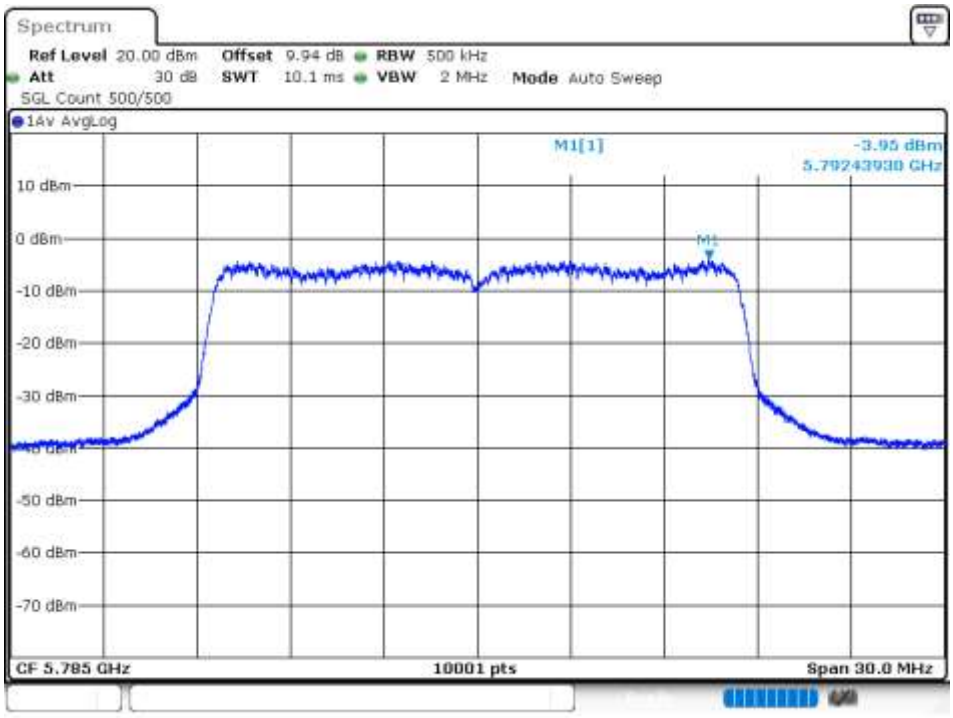


OBW NVNT ac80 5775MHz Ant1

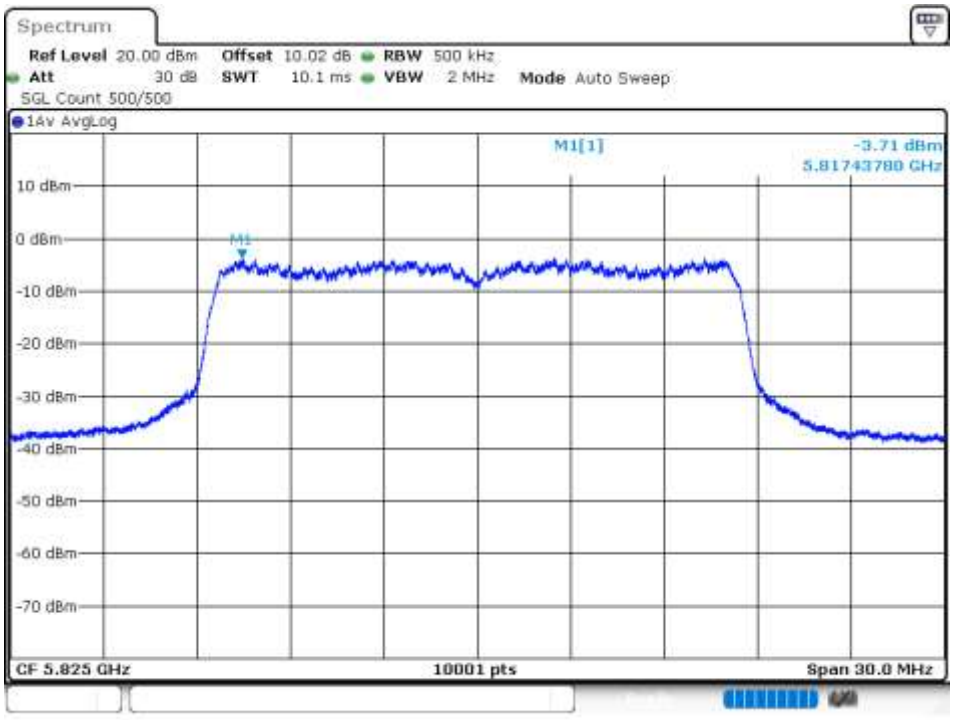


Maximum Power Spectral Density Level

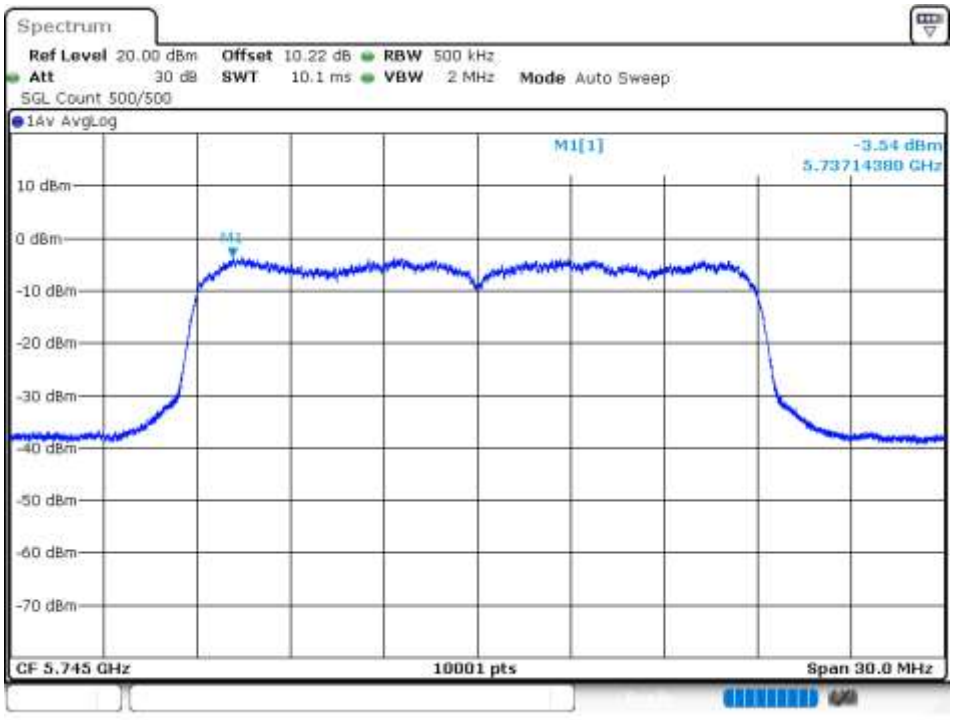
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-2.83	0.13	-2.7	30	Pass
NVNT	a	5785	Ant1	-3.95	0.13	-3.82	30	Pass
NVNT	a	5825	Ant1	-3.71	0.13	-3.58	30	Pass
NVNT	n20	5745	Ant1	-3.54	0.13	-3.41	30	Pass
NVNT	n20	5785	Ant1	-3.77	0.14	-3.63	30	Pass
NVNT	n20	5825	Ant1	-3.89	0.13	-3.76	30	Pass
NVNT	n40	5755	Ant1	-7.6	0.25	-7.35	30	Pass
NVNT	n40	5795	Ant1	-7.07	0.25	-6.82	30	Pass
NVNT	ac20	5745	Ant1	-2.65	0.14	-2.51	30	Pass
NVNT	ac20	5785	Ant1	-3.37	0.14	-3.23	30	Pass
NVNT	ac20	5825	Ant1	-3.87	0.14	-3.73	30	Pass
NVNT	ac40	5755	Ant1	-8.35	0.26	-8.09	30	Pass
NVNT	ac40	5795	Ant1	-8.38	0.26	-8.12	30	Pass
NVNT	ac80	5775	Ant1	-14.35	0.41	-13.94	30	Pass

Test Graphs
PSD NVNT a 5745MHz Ant1

PSD NVNT a 5785MHz Ant1


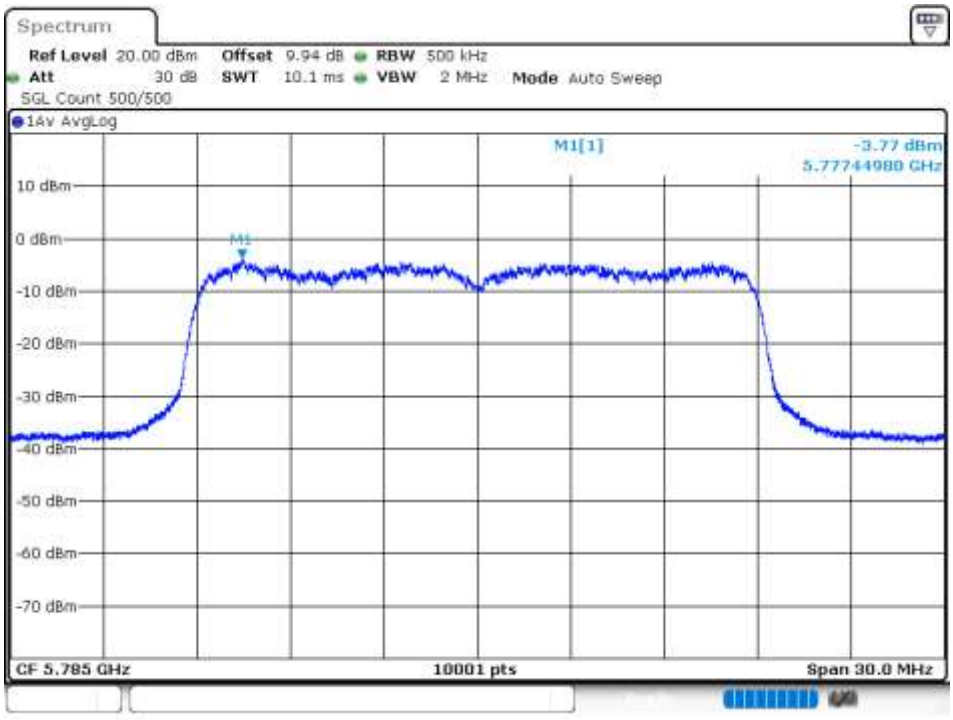
PSD NVNT a 5825MHz Ant1



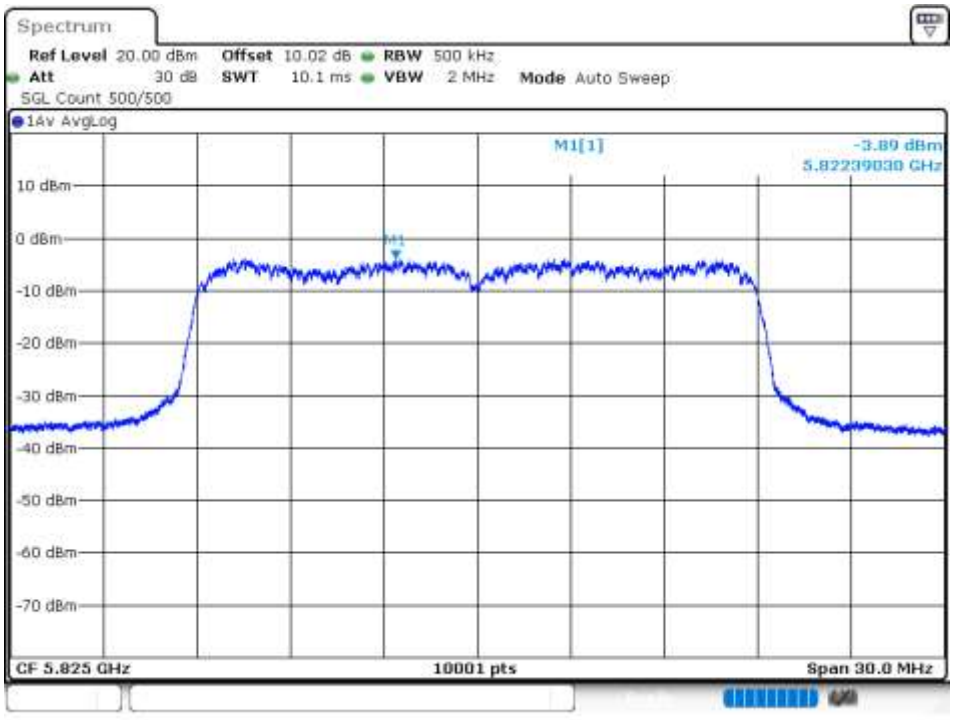
PSD NVNT n20 5745MHz Ant1



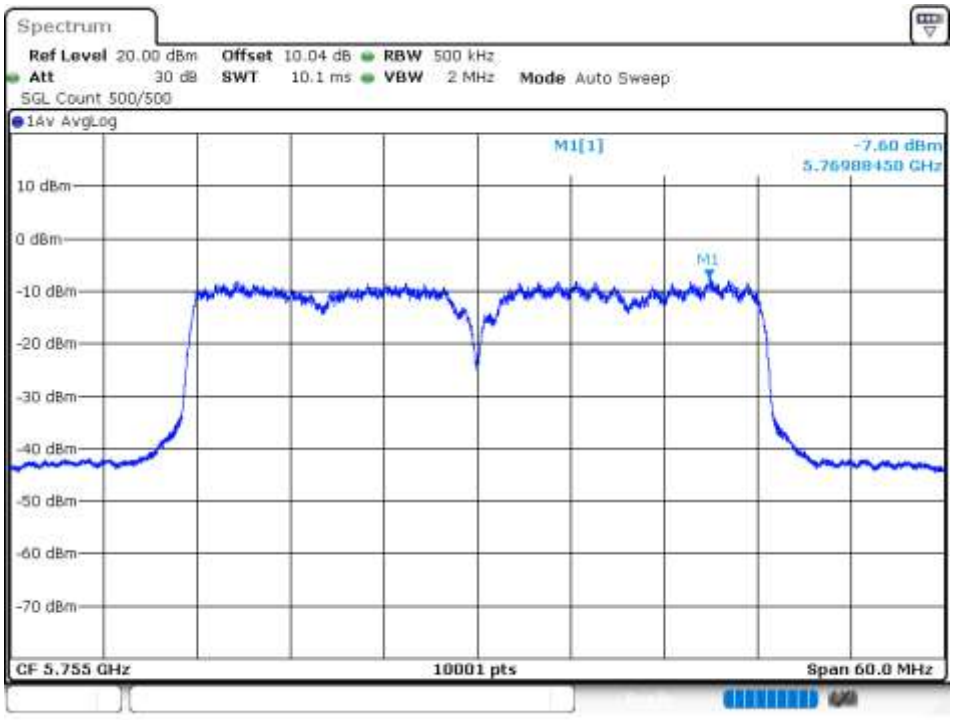
PSD NVNT n20 5785MHz Ant1



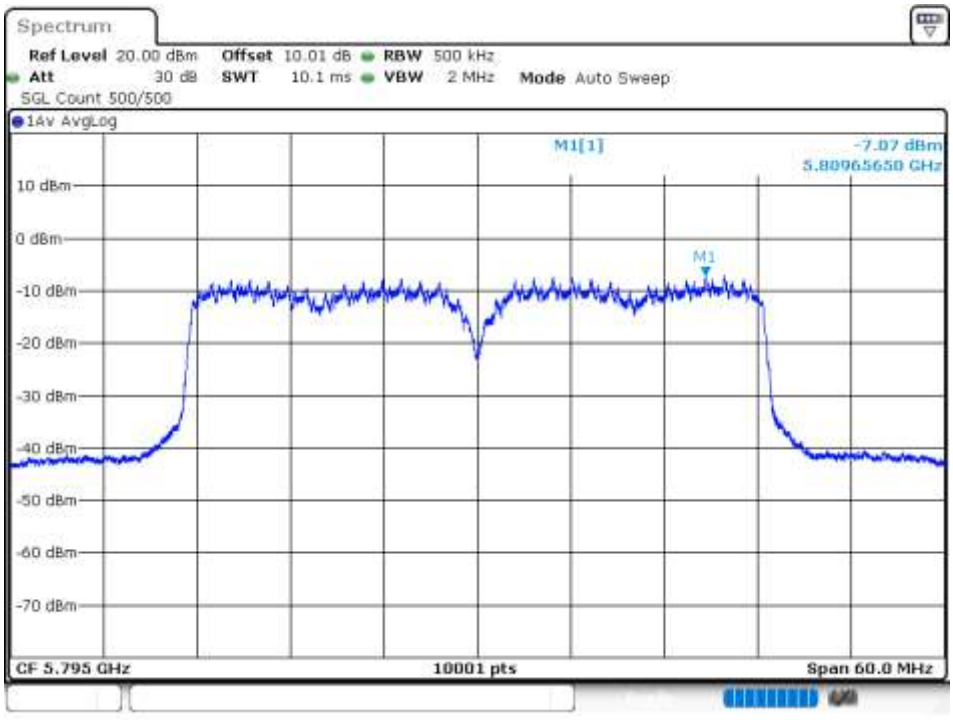
PSD NVNT n20 5825MHz Ant1



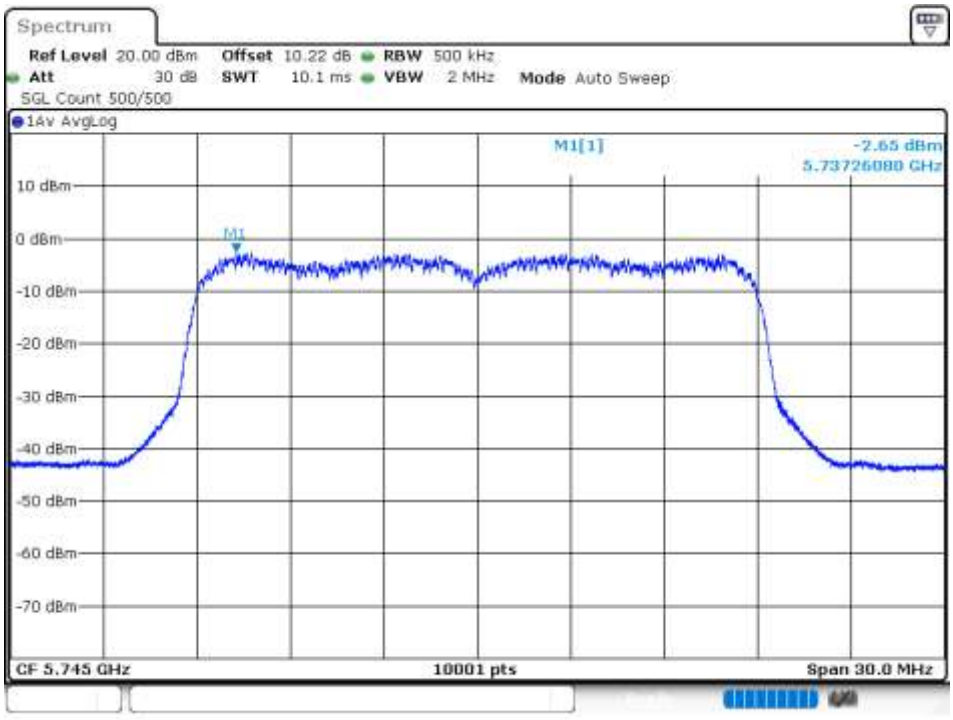
PSD NVNT n40 5755MHz Ant1



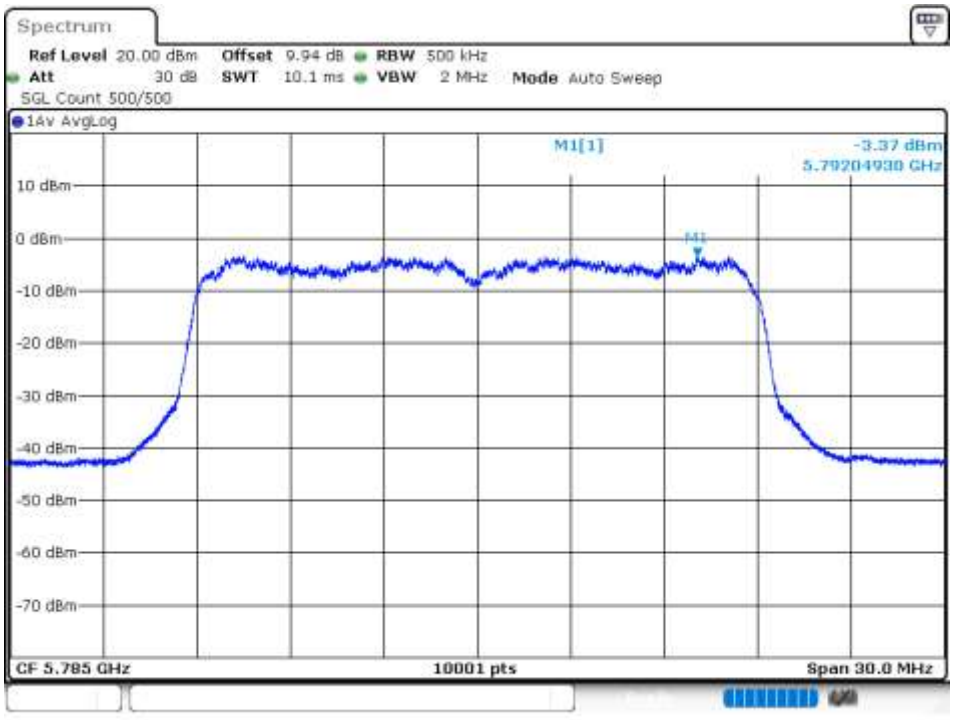
PSD NVNT n40 5795MHz Ant1



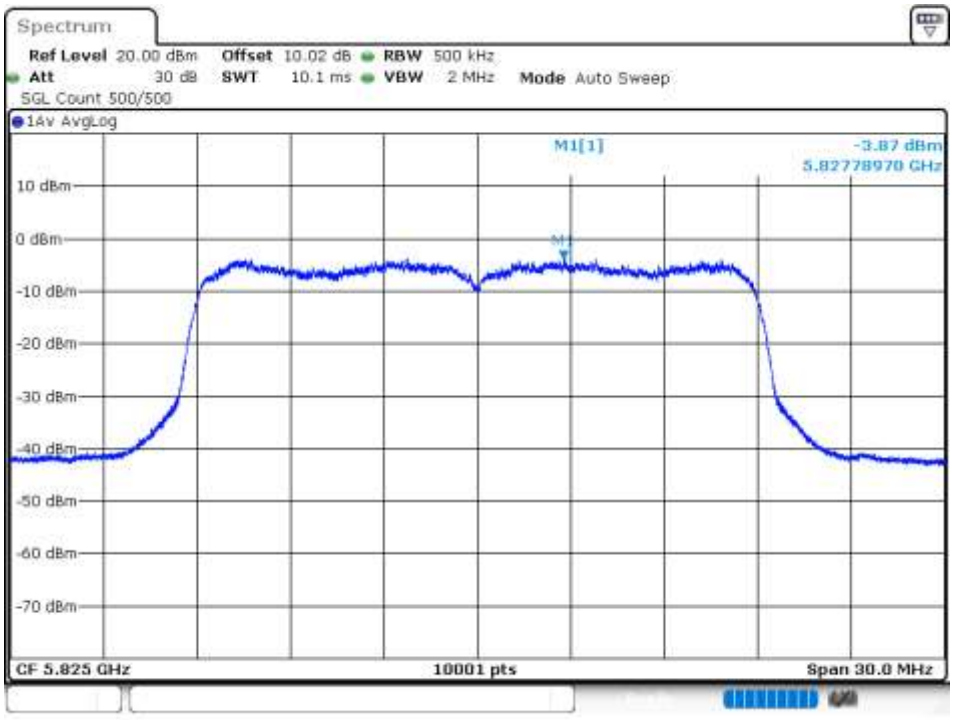
PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1

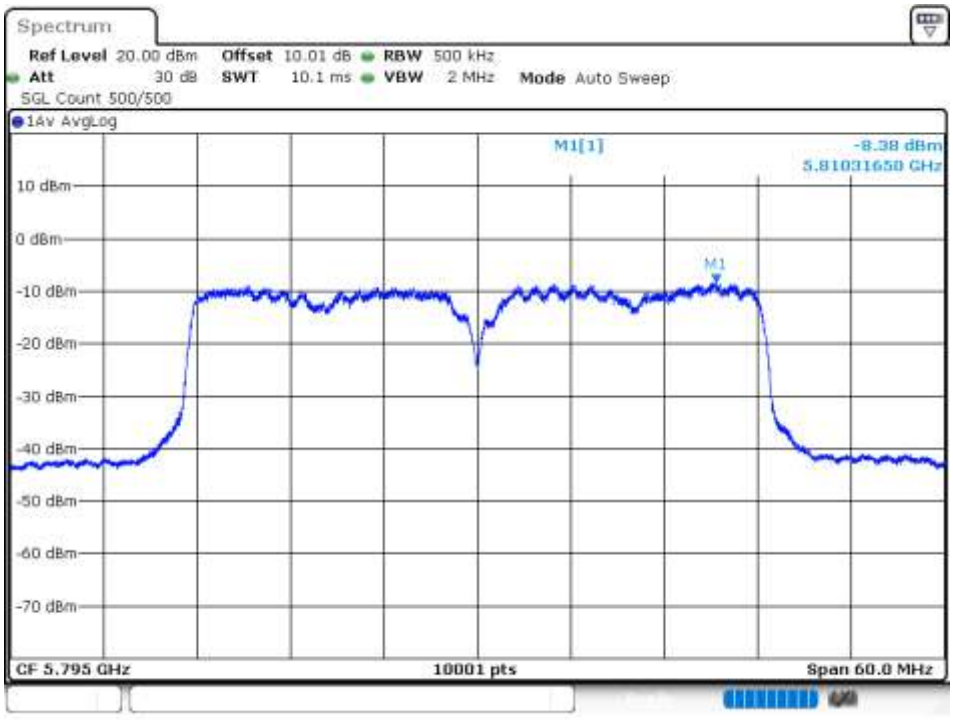


PSD NVNT ac20 5825MHz Ant1

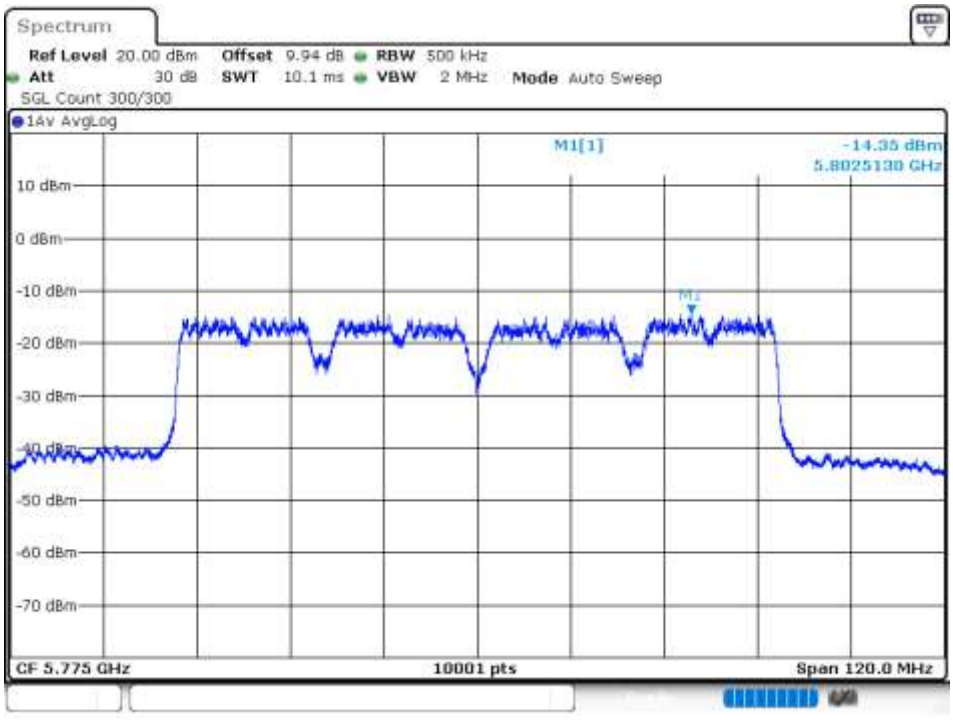


PSD NVNT ac40 5755MHz Ant1

PSD NVNT ac40 5795MHz Ant1



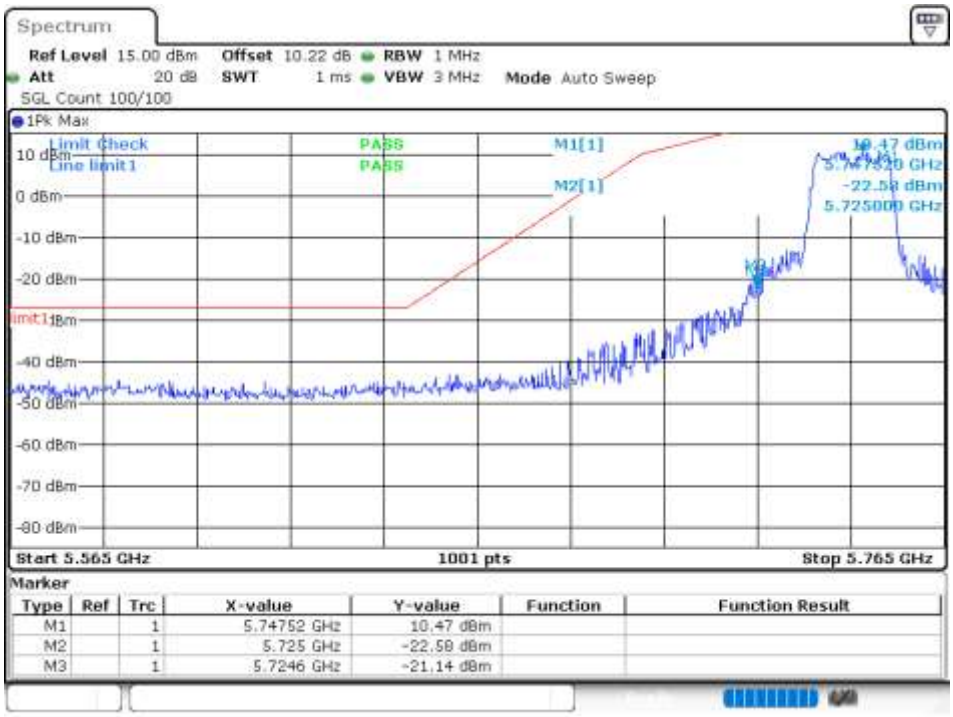
PSD NVNT ac80 5775MHz Ant1



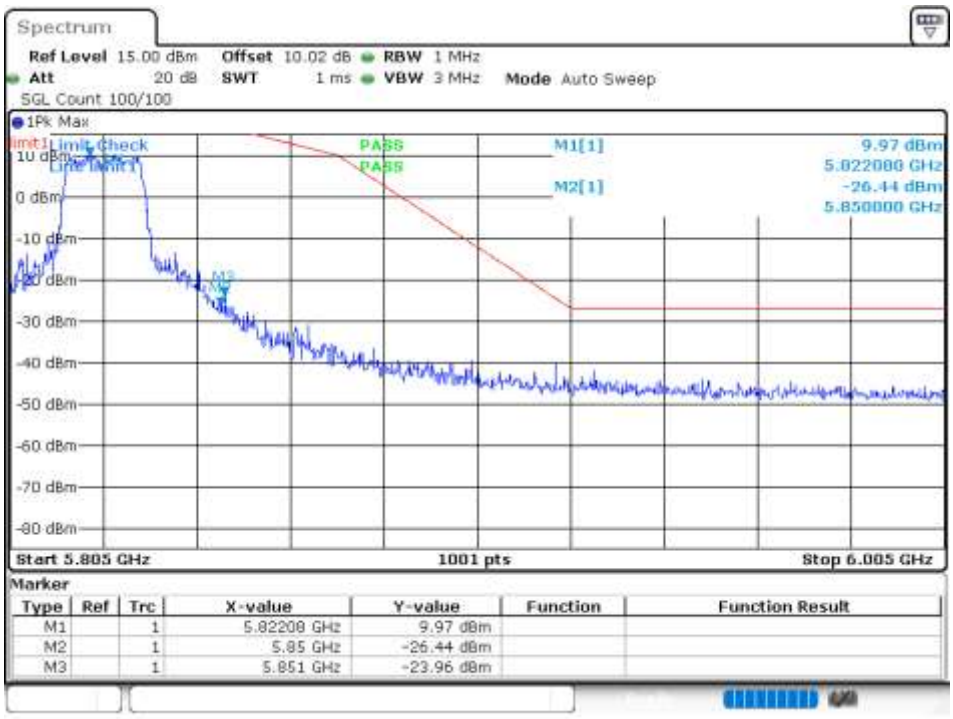
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-21.14		Pass
NVNT	a	5825	Ant1	-23.95		Pass
NVNT	n20	5745	Ant1	-18.62		Pass
NVNT	n20	5825	Ant1	-21.51		Pass
NVNT	n40	5755	Ant1	-20.56		Pass
NVNT	n40	5795	Ant1	-30.4		Pass
NVNT	ac20	5745	Ant1	-22.19		Pass
NVNT	ac20	5825	Ant1	-29.81		Pass
NVNT	ac40	5755	Ant1	-23.74		Pass
NVNT	ac40	5795	Ant1	-26.96		Pass
NVNT	ac80	5775	Ant1	-23.72		Pass

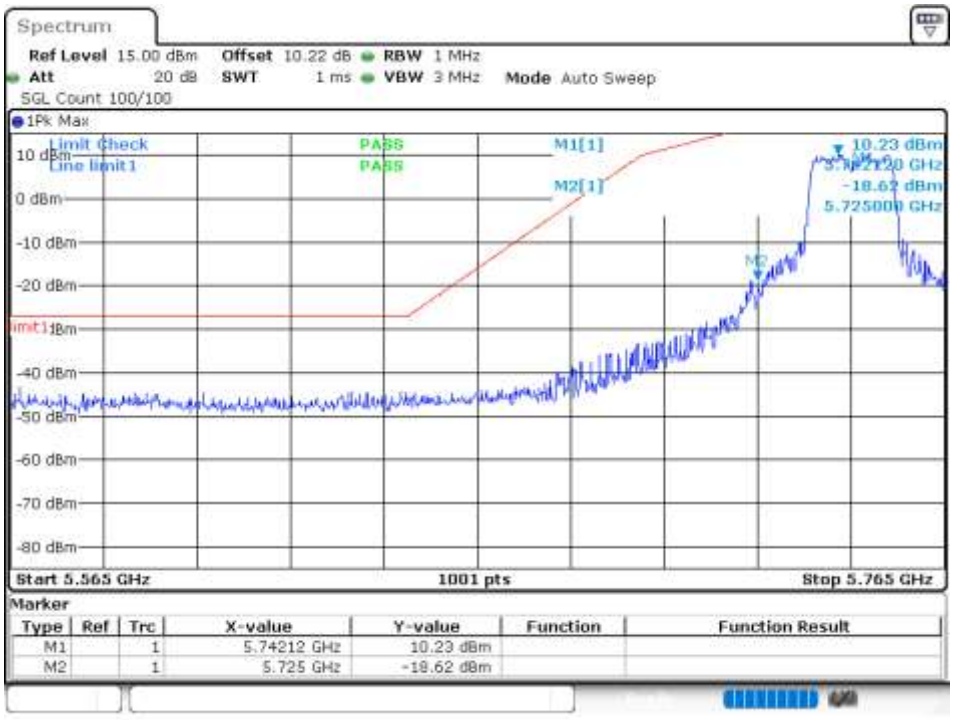
Test Graphs
Band Edge NVNT a 5745MHz Low Ant1



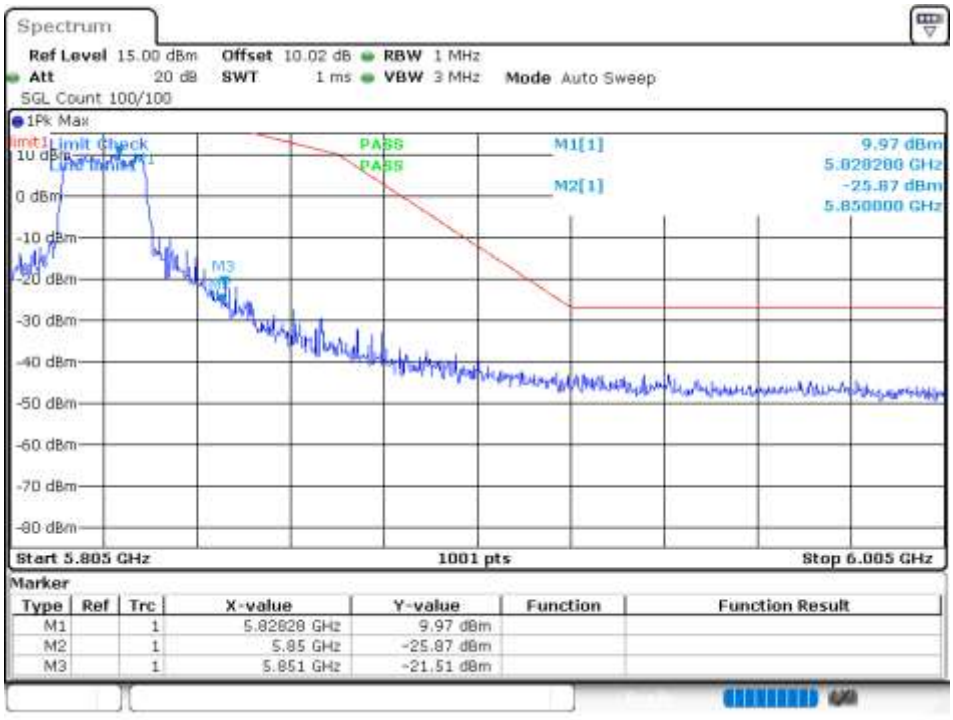
Band Edge NVNT a 5825MHz High Ant1



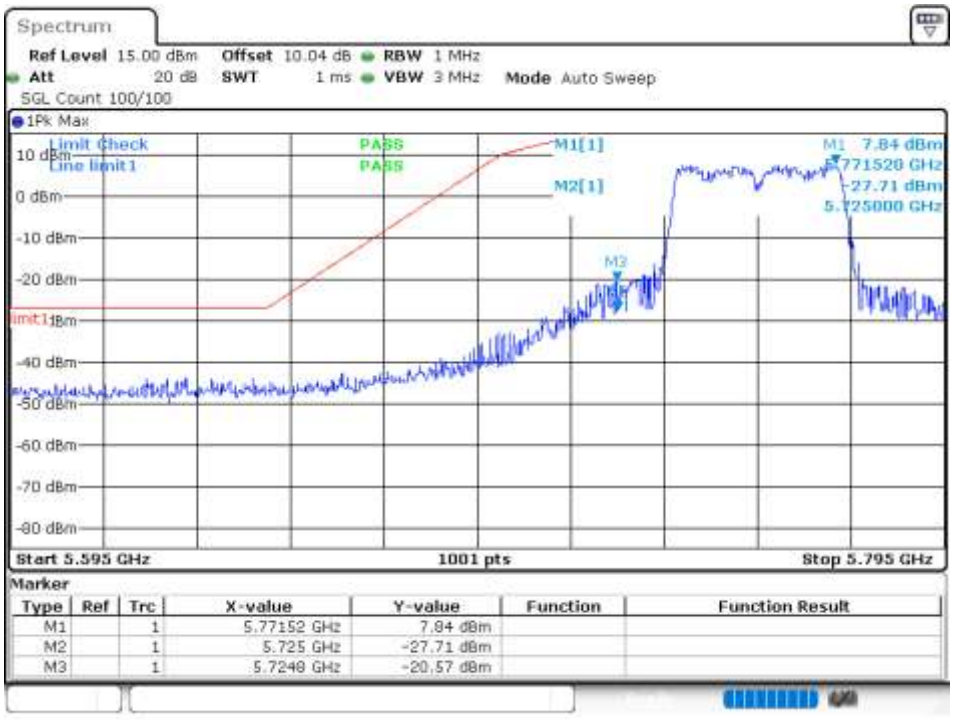
Band Edge NVNT n20 5745MHz Low Ant1



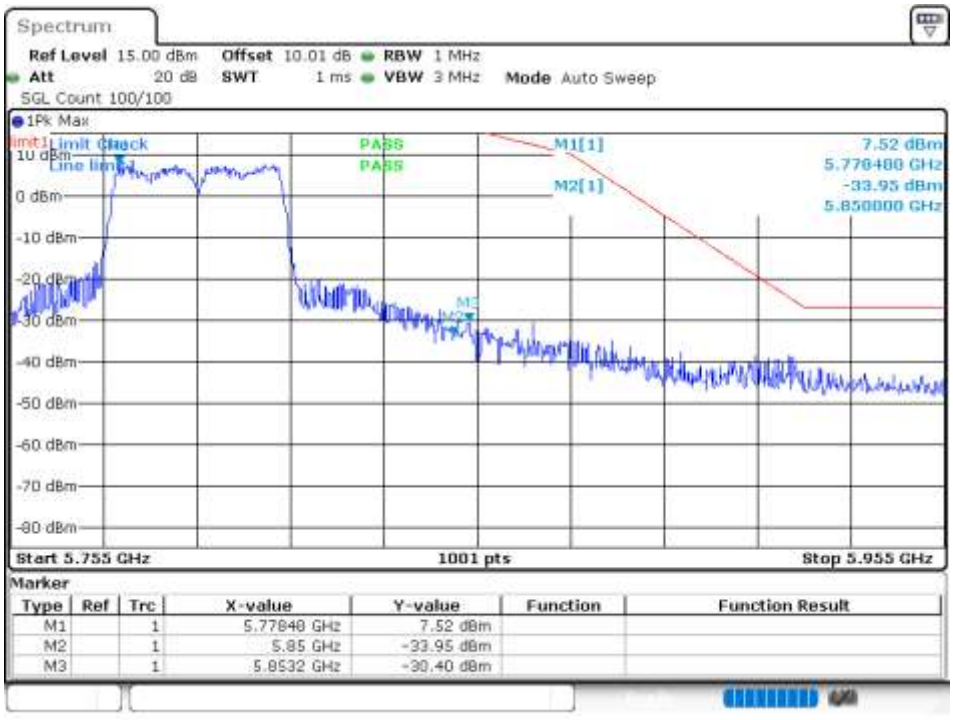
Band Edge NVNT n20 5825MHz High Ant1



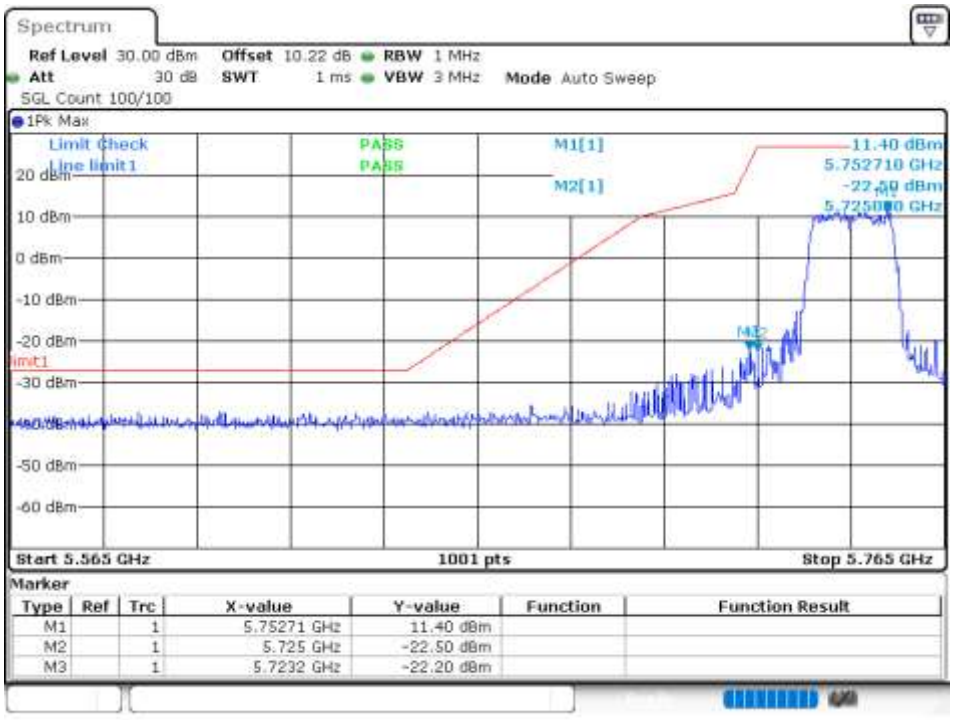
Band Edge NVNT n40 5755MHz Low Ant1



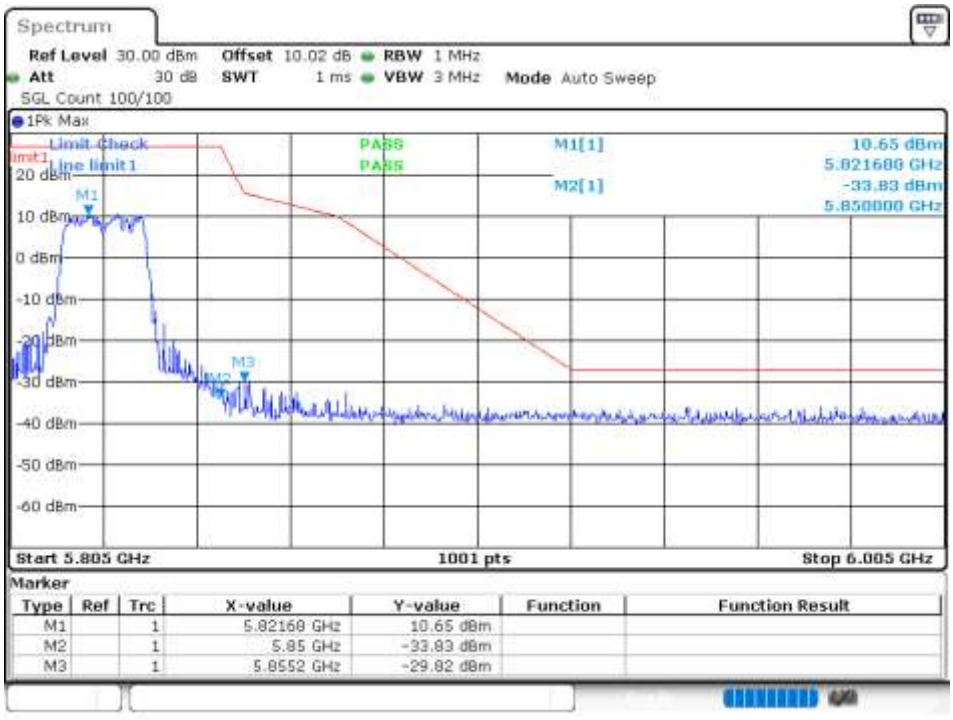
Band Edge NVNT n40 5795MHz High Ant1



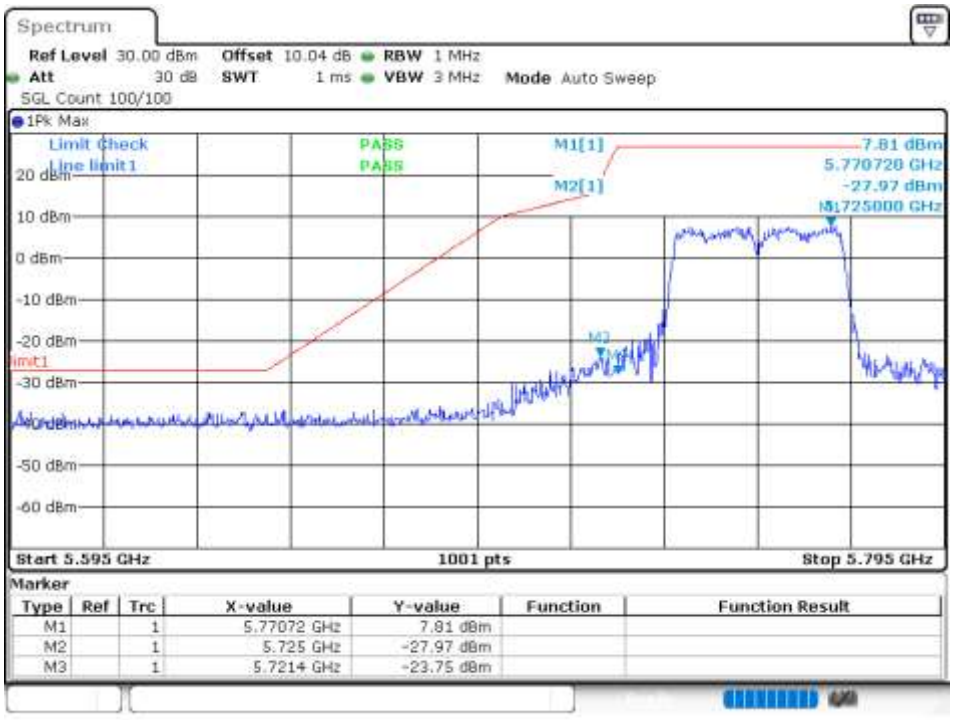
Band Edge NVNT ac20 5745MHz Low Ant1



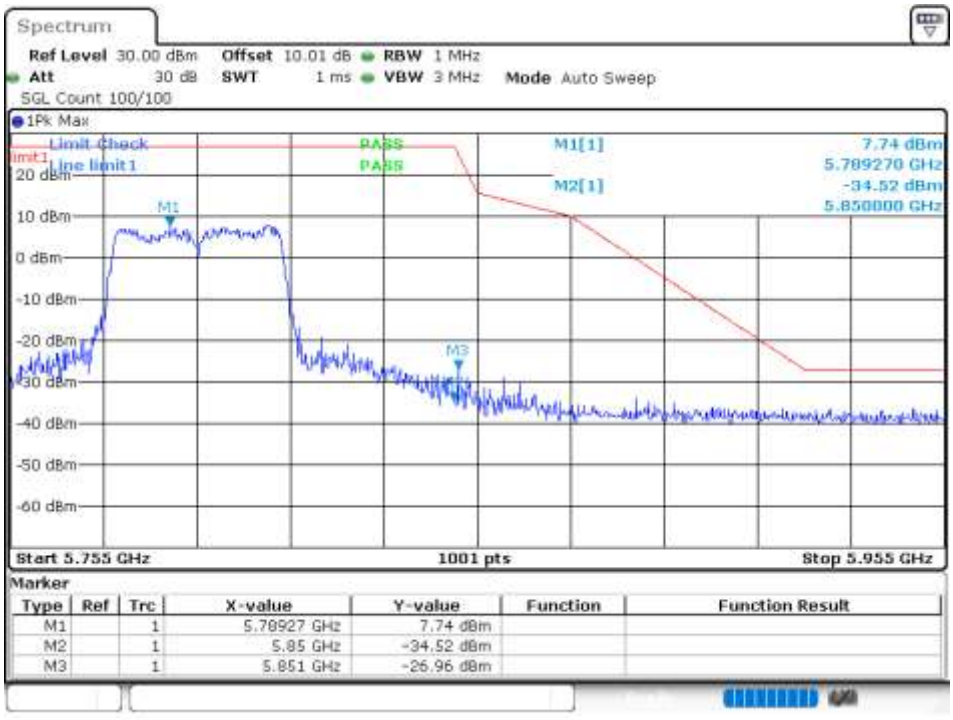
Band Edge NVNT ac20 5825MHz High Ant1



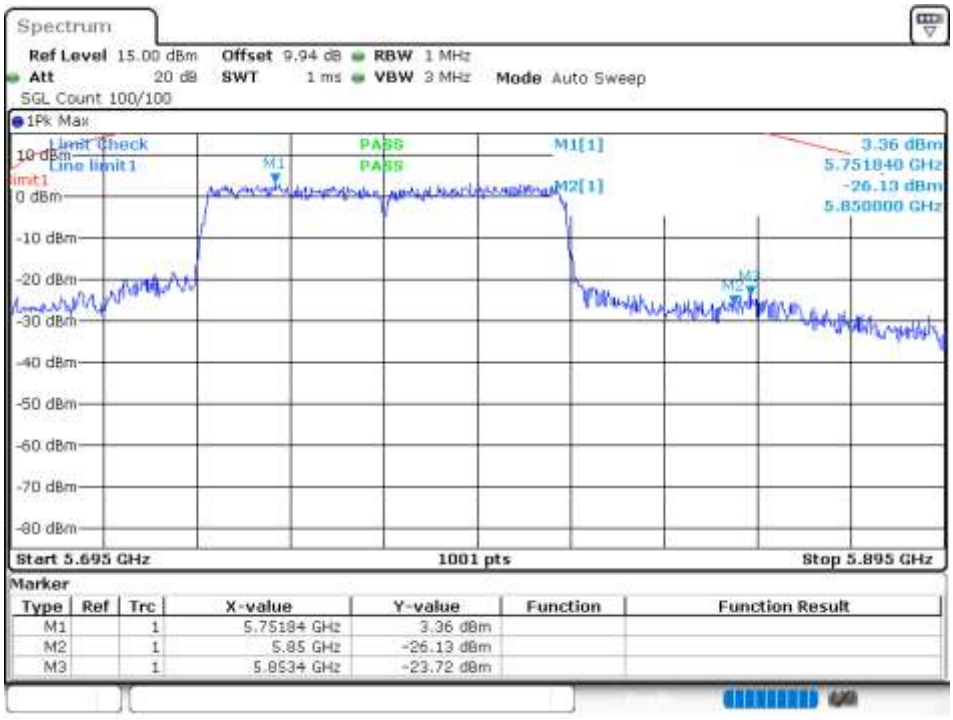
Band Edge NVNT ac40 5755MHz Low Ant1



Band Edge NVNT ac40 5795MHz High Ant1



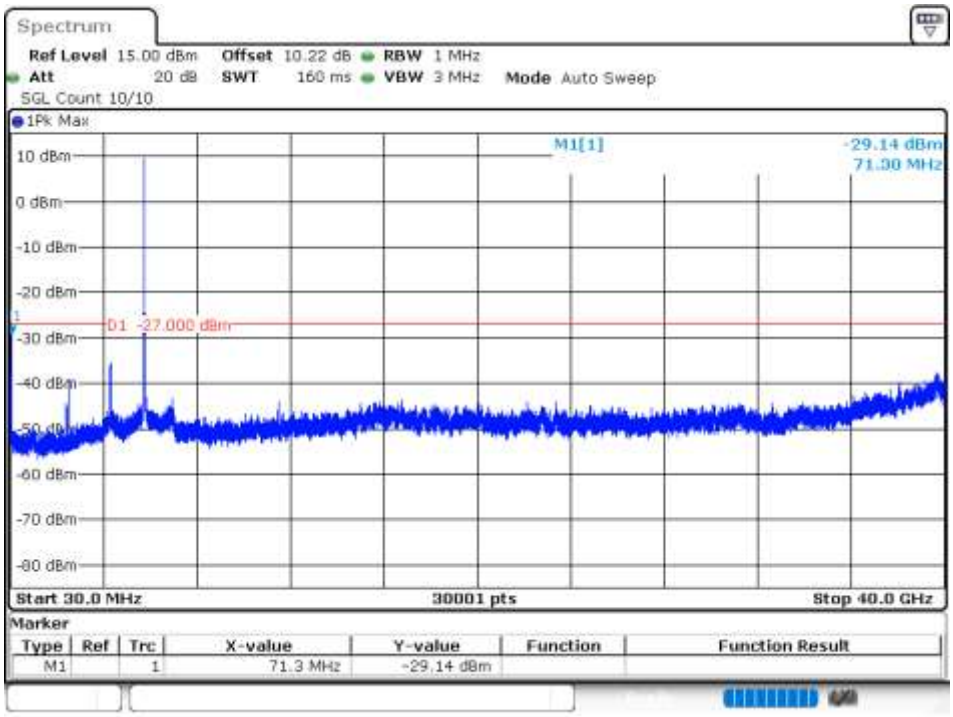
Band Edge NVNT ac80 5775MHz High Ant1



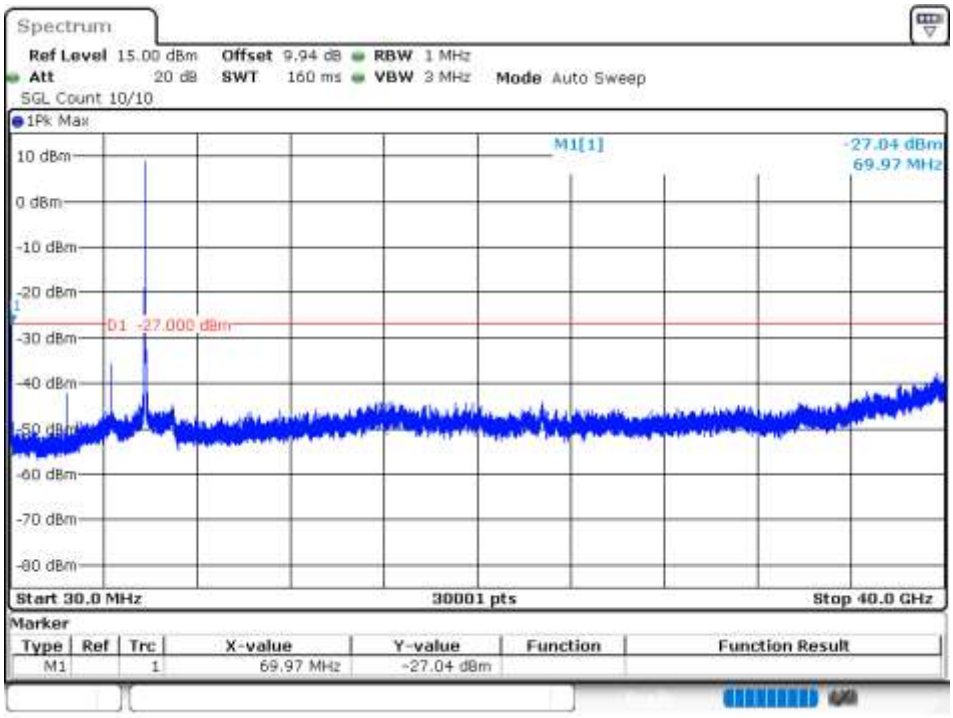
Conducted RF Spurious Emission

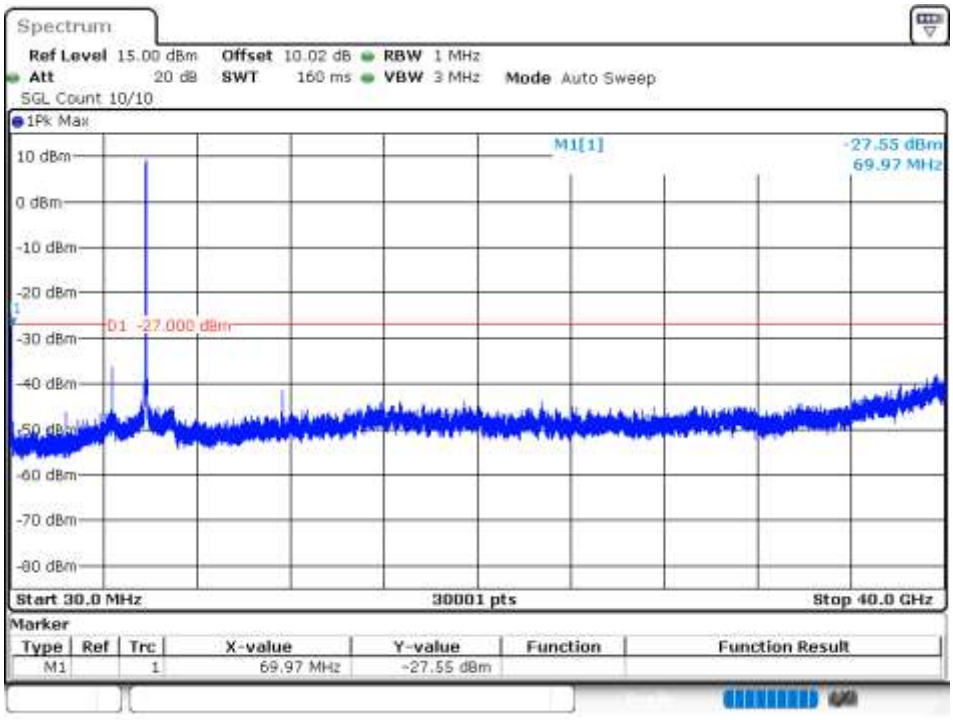
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5745	Ant1	-29.14	-27	Pass
NVNT	a	5785	Ant1	-27.04	-27	Pass
NVNT	a	5825	Ant1	-27.54	-27	Pass
NVNT	n20	5745	Ant1	-27.69	-27	Pass
NVNT	n20	5785	Ant1	-28.31	-27	Pass
NVNT	n20	5825	Ant1	-28.49	-27	Pass
NVNT	n40	5755	Ant1	-37.34	-27	Pass
NVNT	n40	5795	Ant1	-37.13	-27	Pass
NVNT	ac20	5745	Ant1	-35.58	-27	Pass
NVNT	ac20	5785	Ant1	-36.65	-27	Pass
NVNT	ac20	5825	Ant1	-36.81	-27	Pass
NVNT	ac40	5755	Ant1	-34.23	-27	Pass
NVNT	ac40	5795	Ant1	-36.94	-27	Pass
NVNT	ac80	5775	Ant1	-29.61	-27	Pass

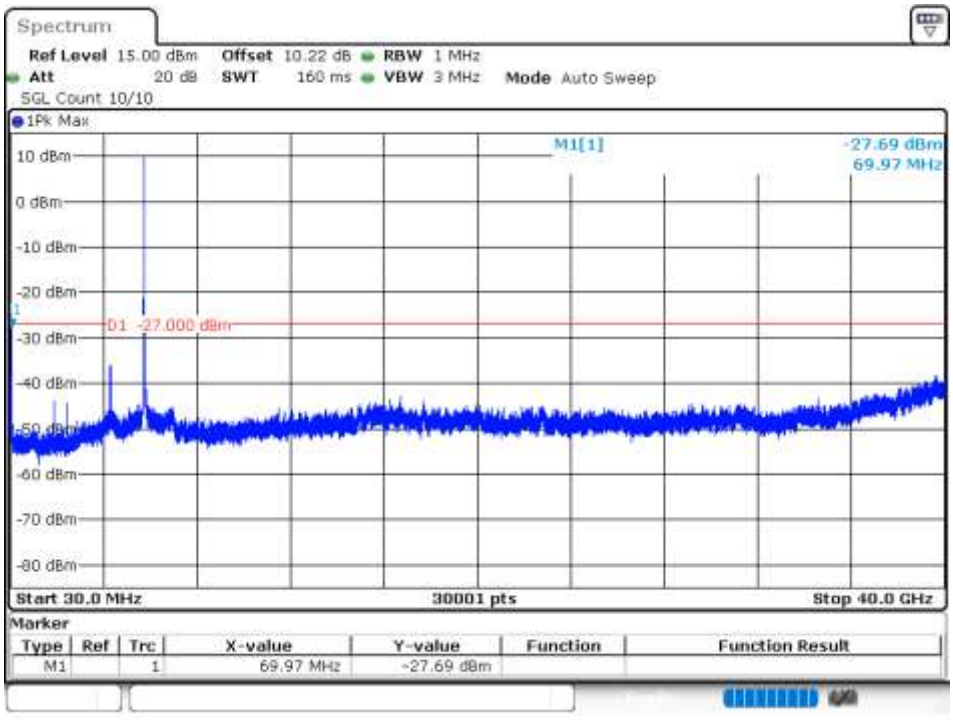
Test Graphs
Tx. Spurious NVNT a 5745MHz Ant1 Emission

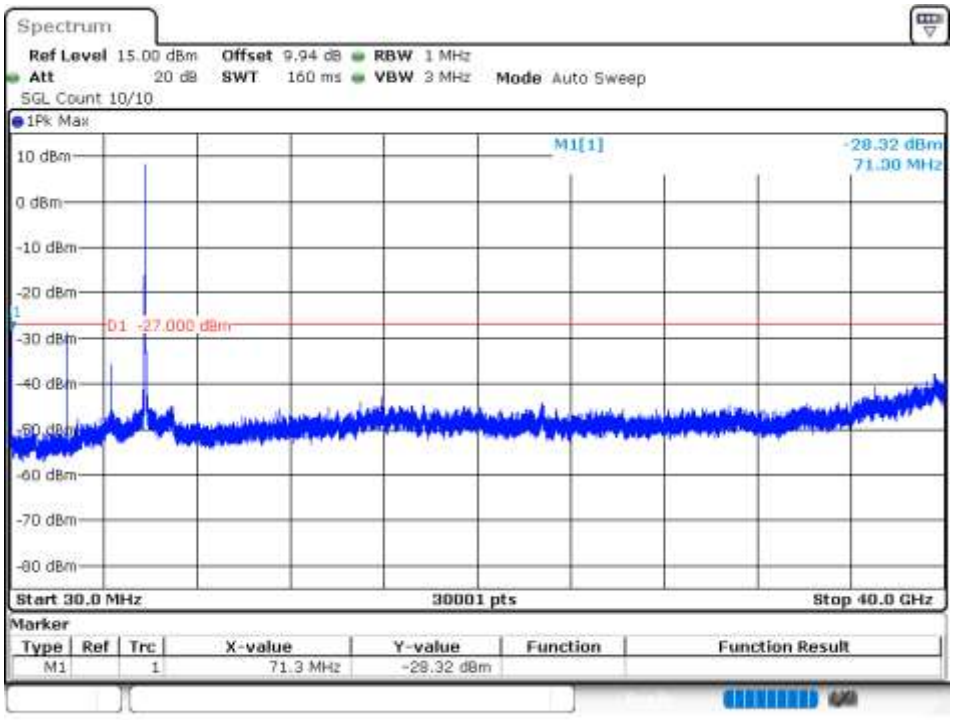


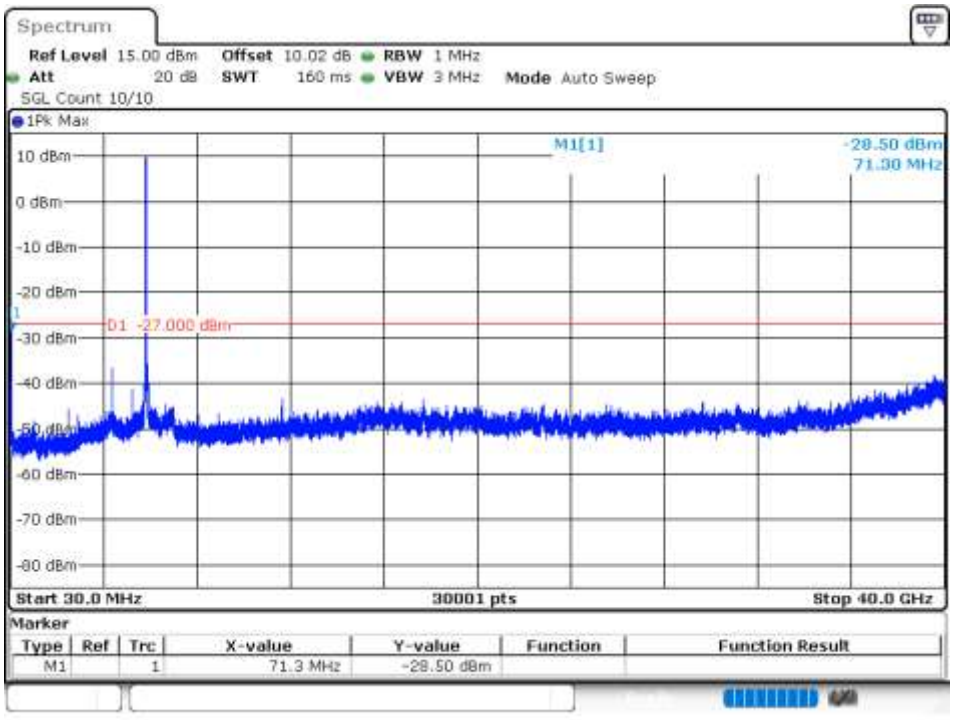
Tx. Spurious NVNT a 5785MHz Ant1 Emission

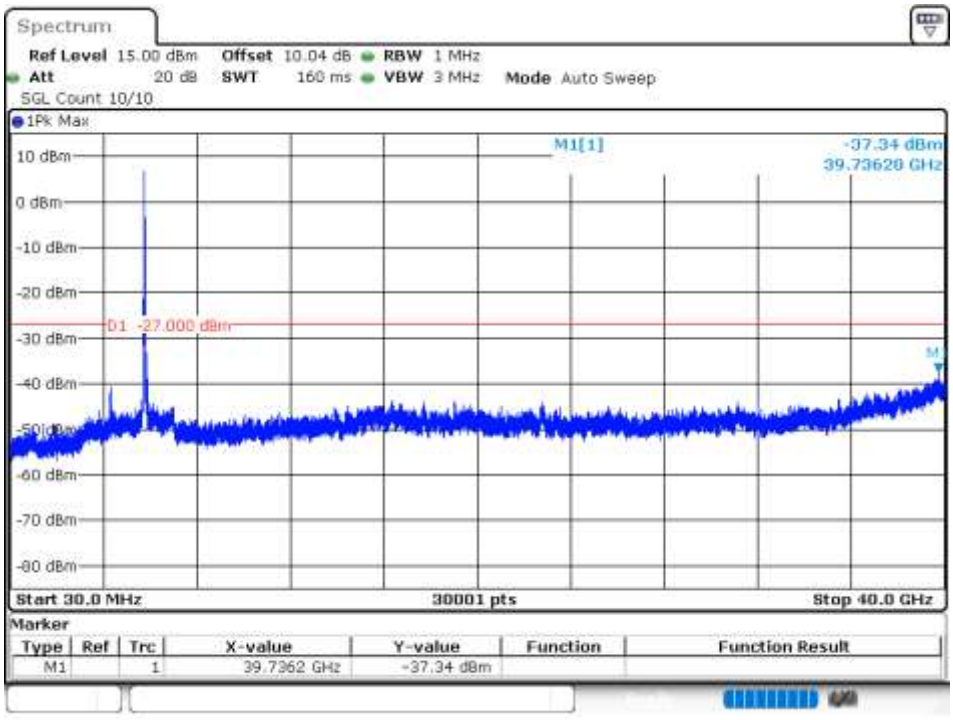


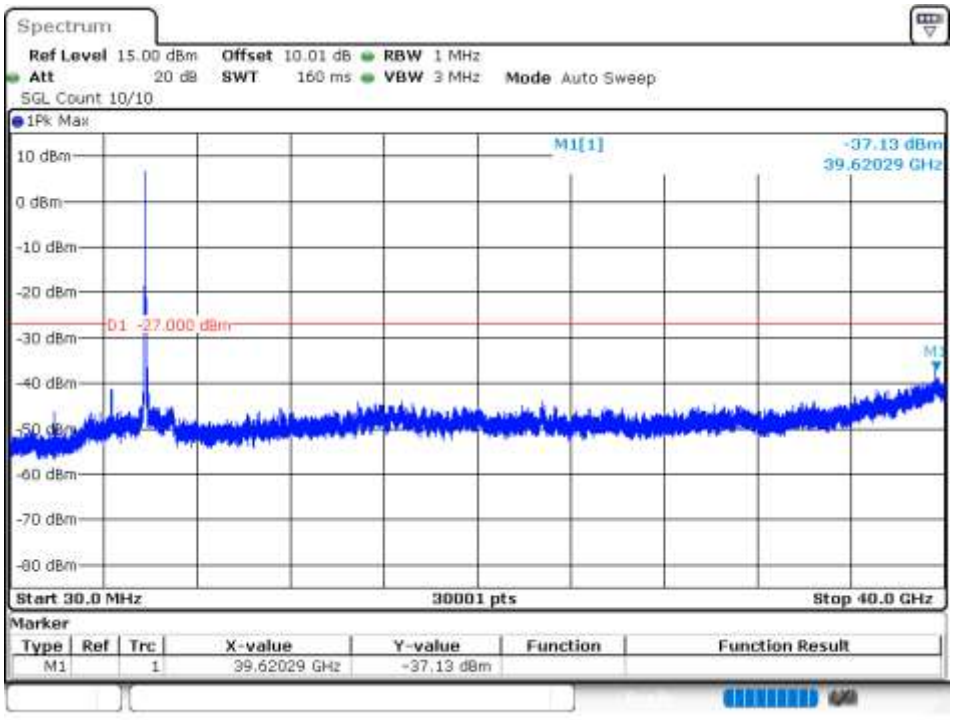
Tx. Spurious NVNT a 5825MHz Ant1 Emission


Tx. Spurious NVNT n20 5745MHz Ant1 Emission


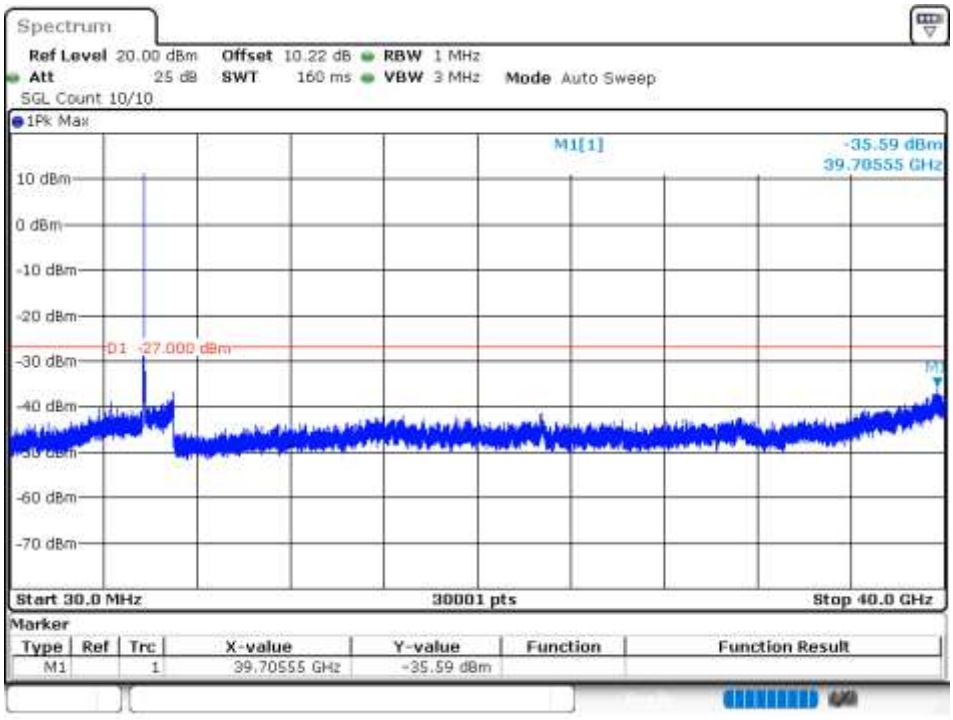
Tx. Spurious NVNT n20 5785MHz Ant1 Emission


Tx. Spurious NVNT n20 5825MHz Ant1 Emission


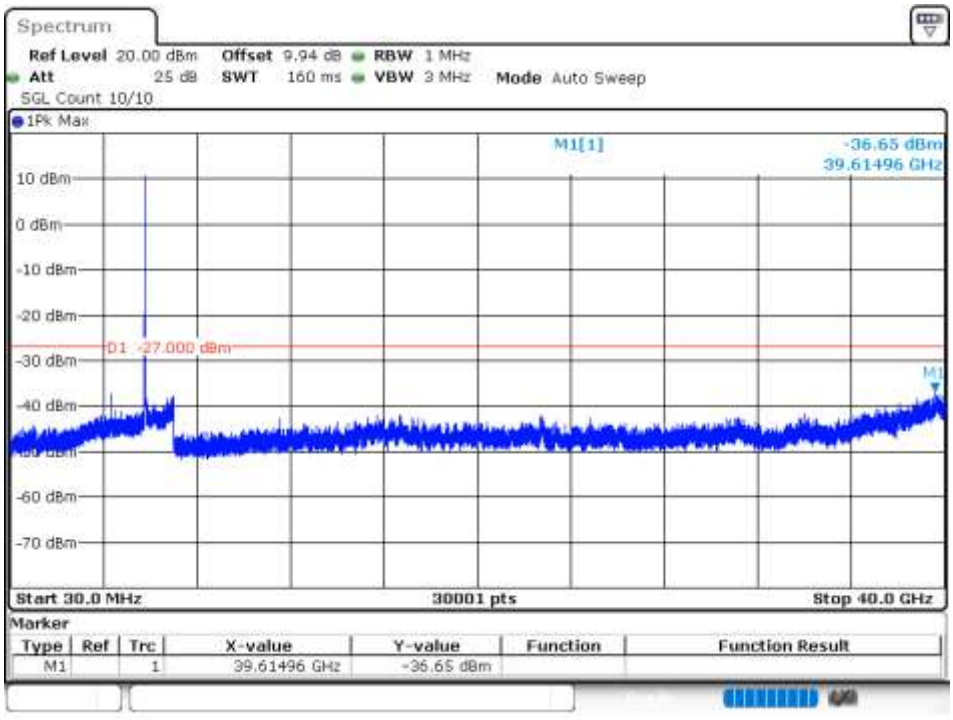
Tx. Spurious NVNT n40 5755MHz Ant1 Emission


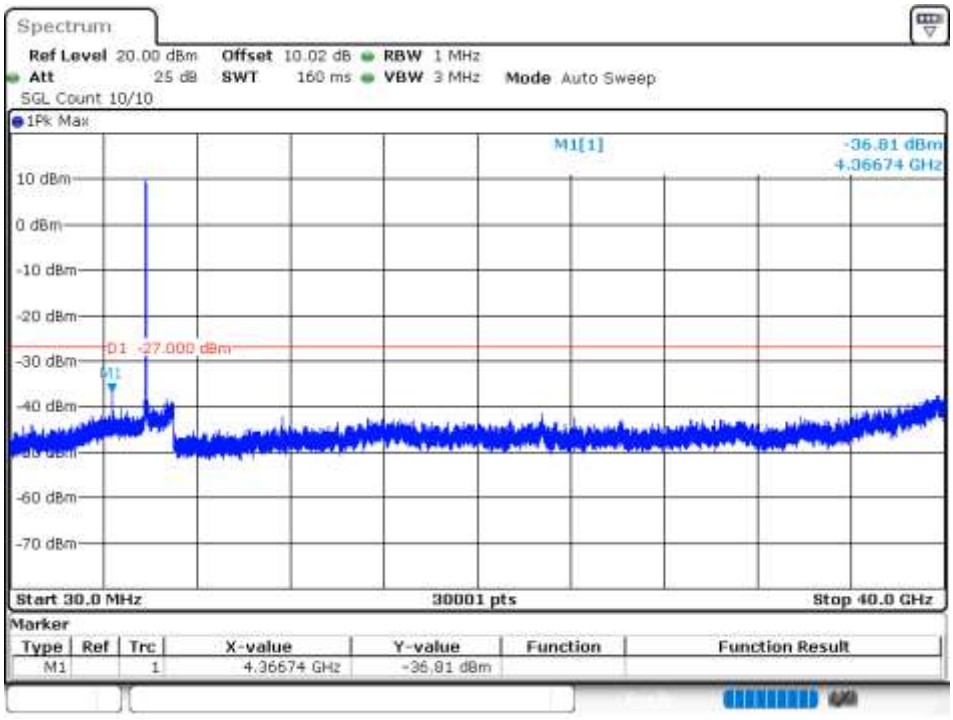
Tx. Spurious NVNT n40 5795MHz Ant1 Emission


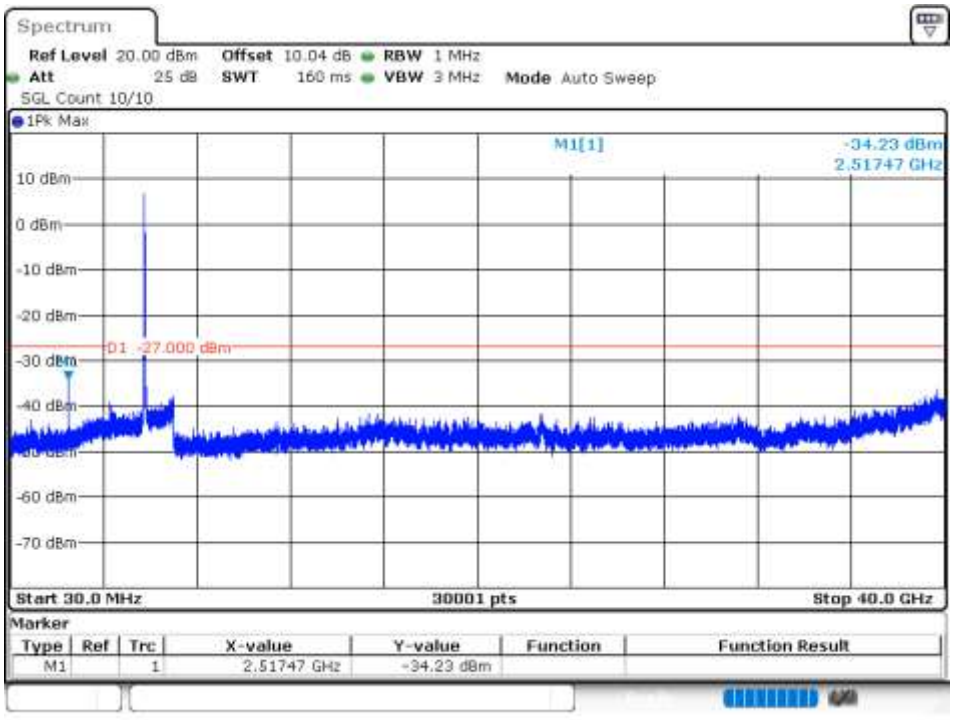
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



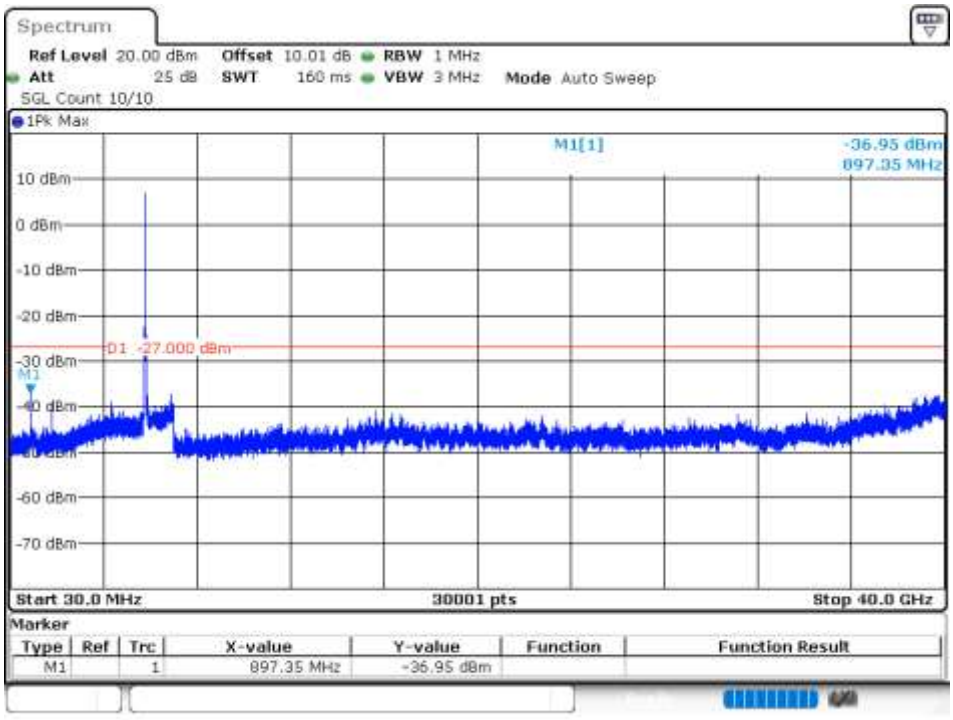
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



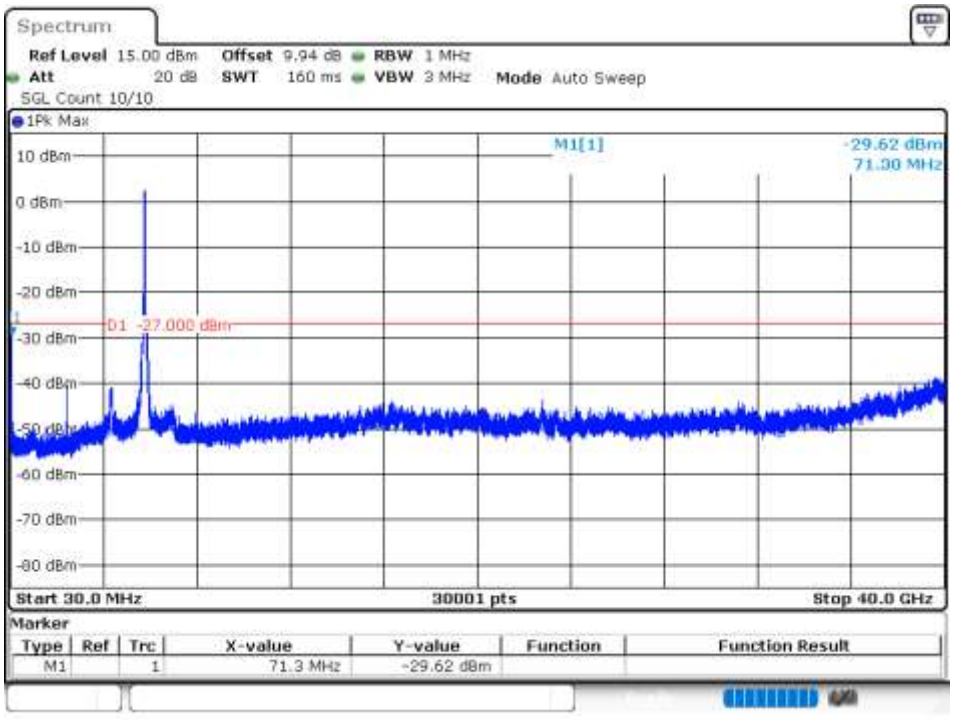
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission


Tx. Spurious NVNT ac40 5755MHz Ant1 Emission


Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



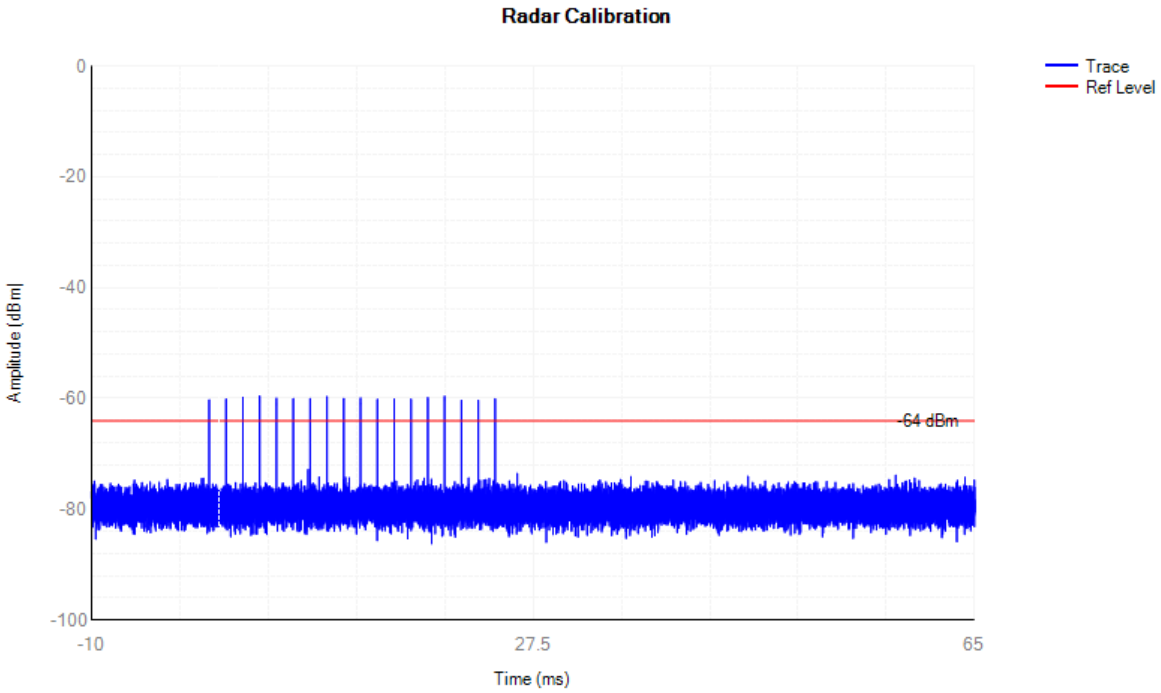
Tx. Spurious NVNT ac80 5775MHz Ant1 Emission



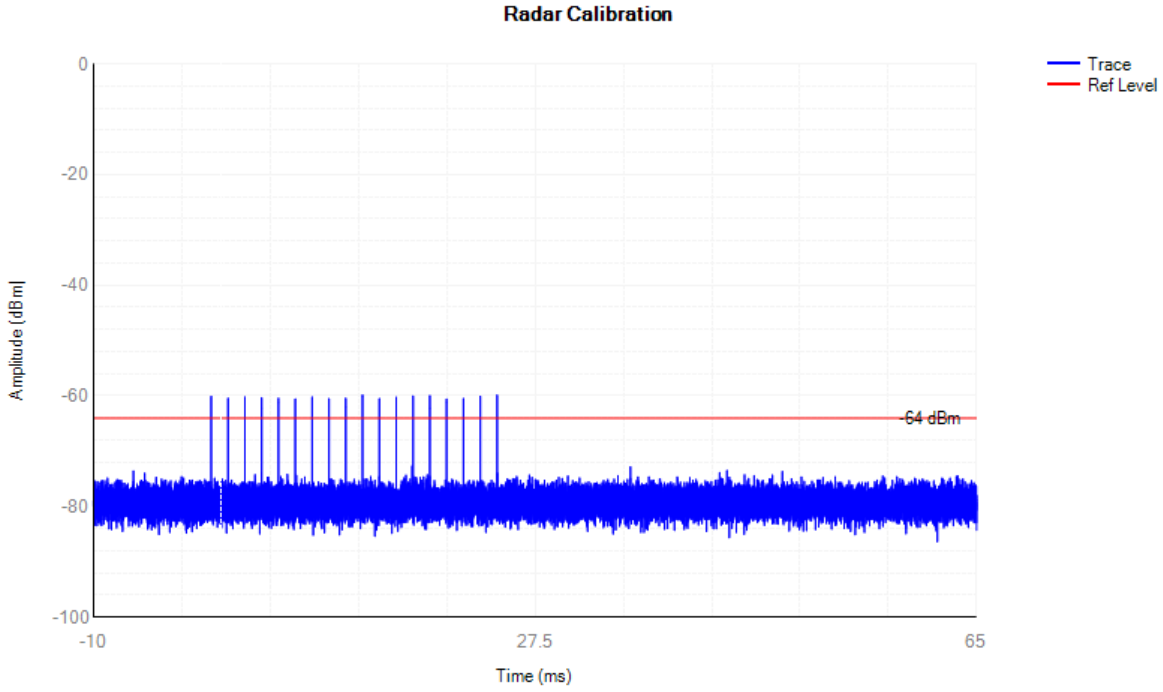
DFS

Calibration

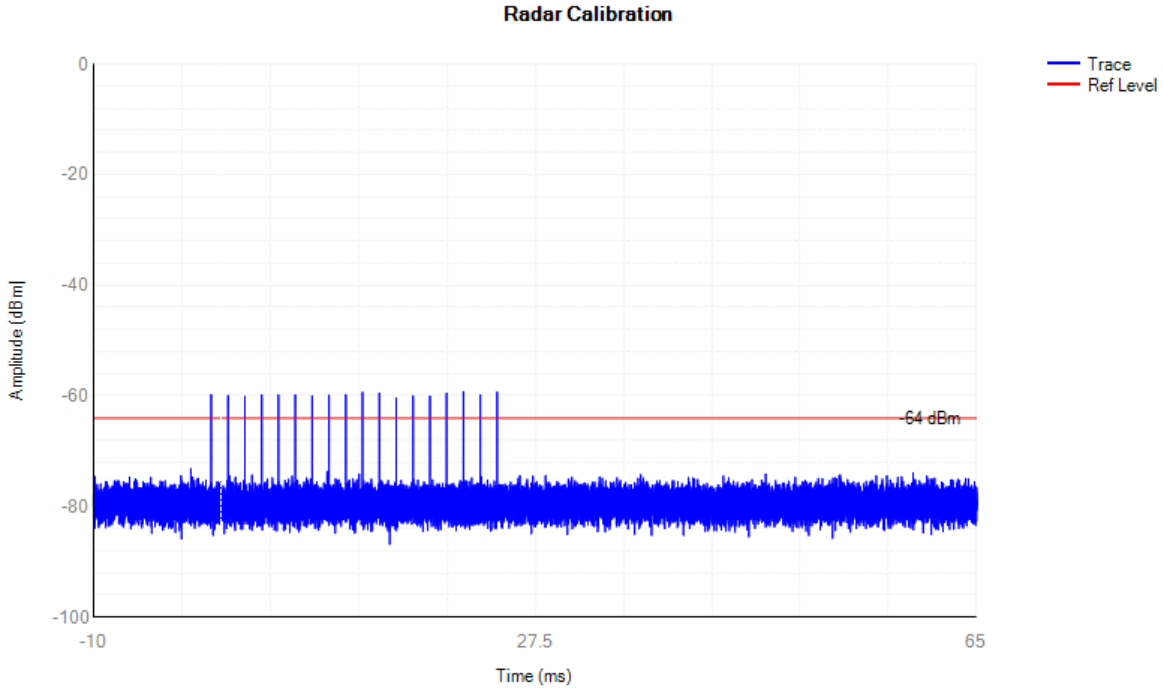
5260MHz a DFS_FCC_T0



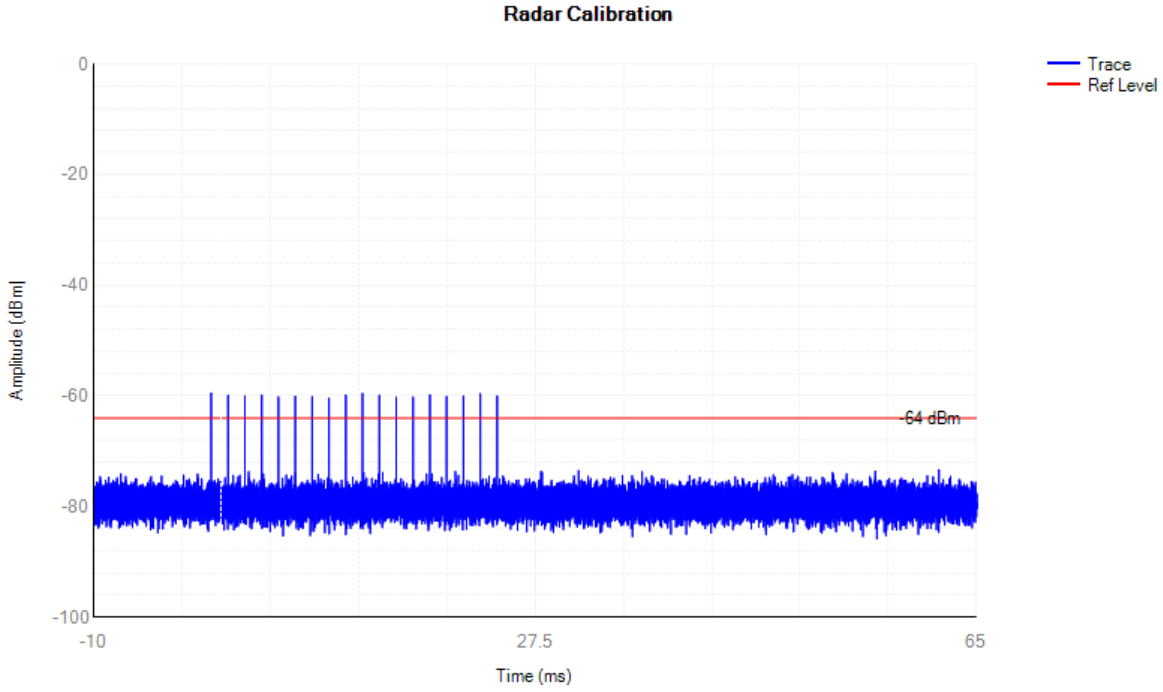
5500MHz a DFS_FCC_T0



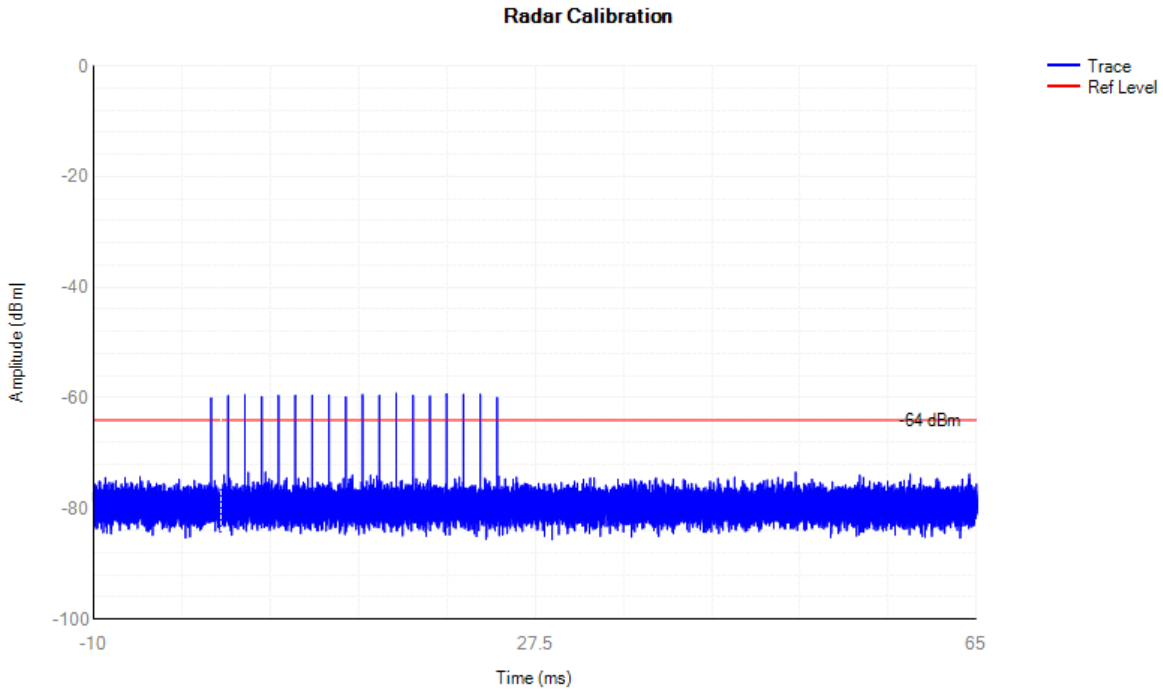
5270MHz n40 DFS_FCC_T0



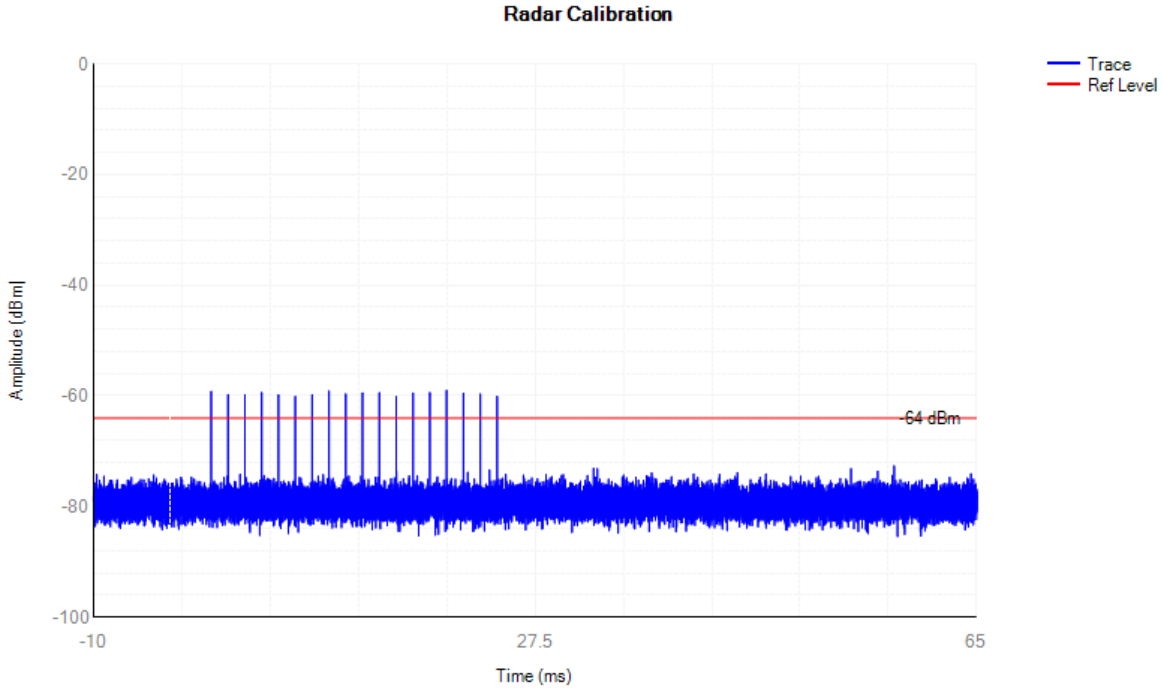
5510MHz n40 DFS_FCC_T0



5290MHz ac80 DFS_FCC_T0

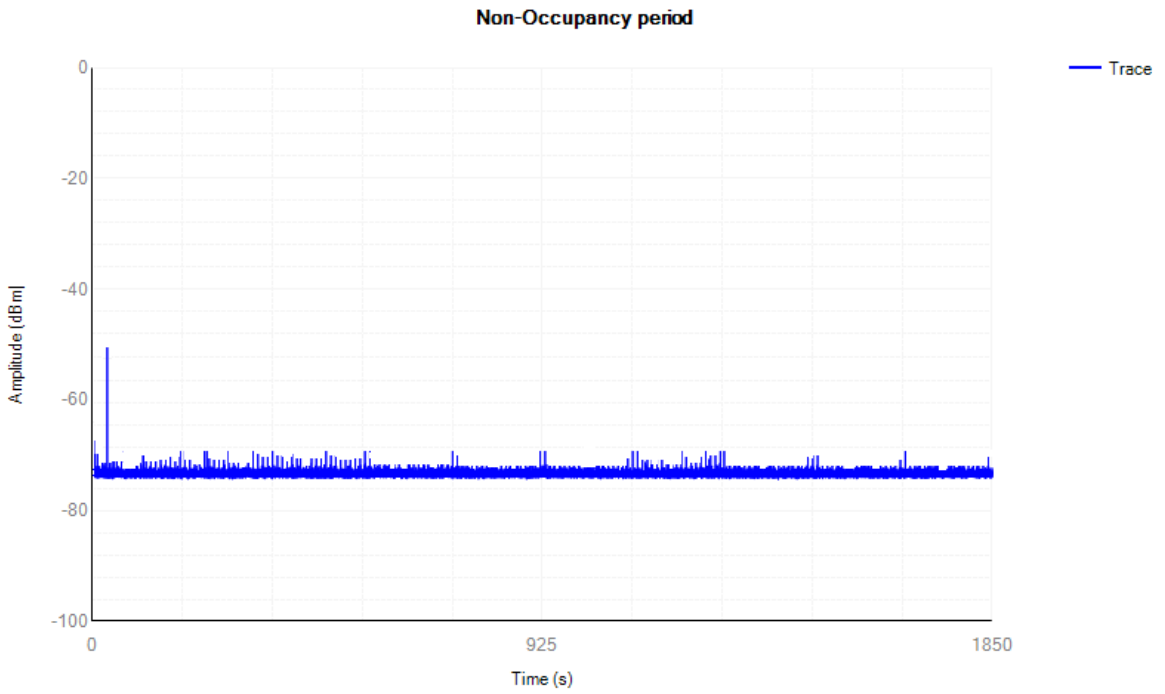


5530MHz ac80 DFS_FCC_T0

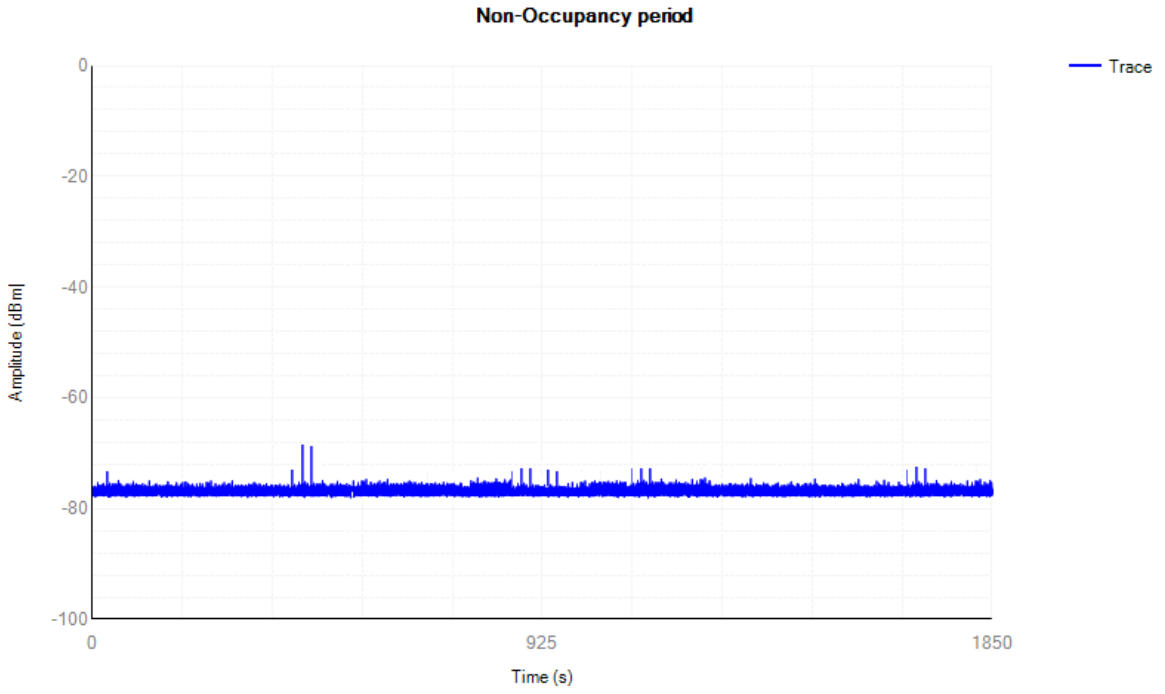

Radar Calibration
Trace
Ref Level
0
-20
-40
-60
-80
-100
Amplitude [dBm]
-64 dBm
-10
27.5
65
Time (ms)

Non-Occupancy

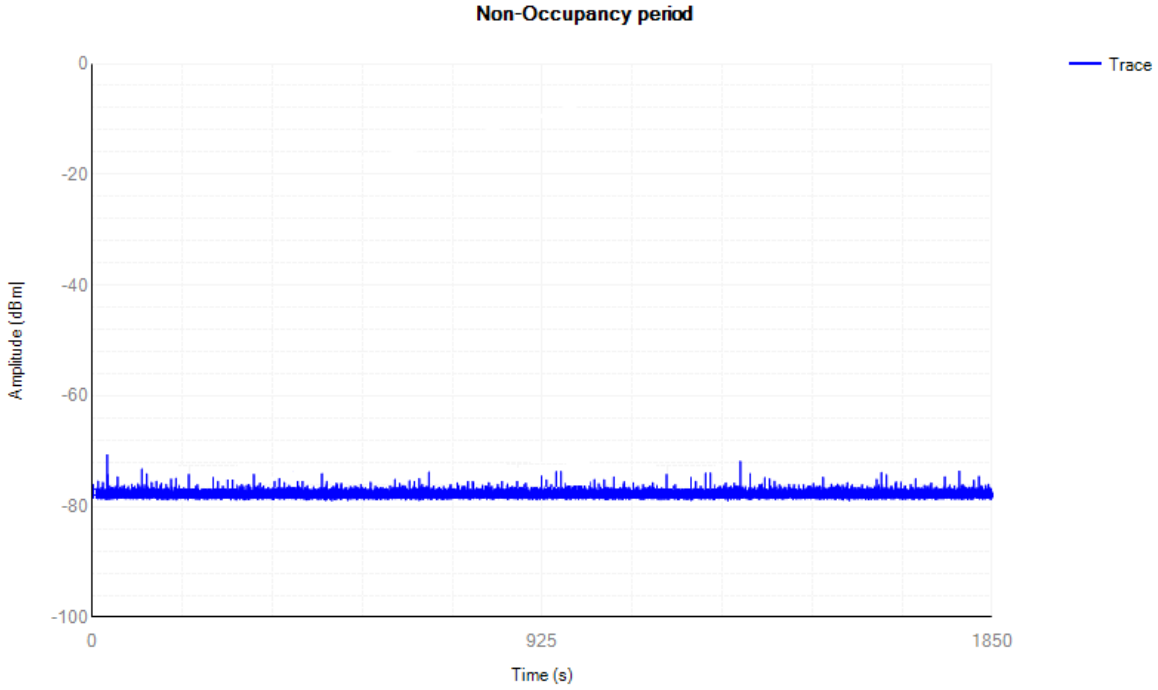
5260MHz a Non-Occupancy



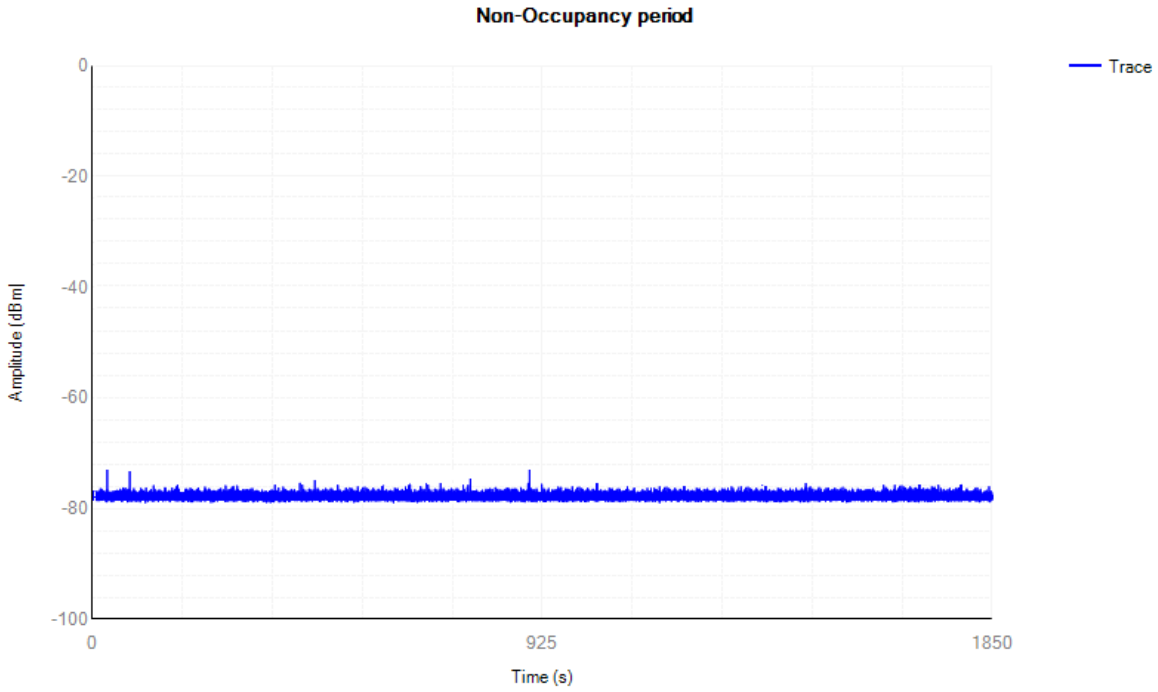
5500MHz a Non-Occupancy



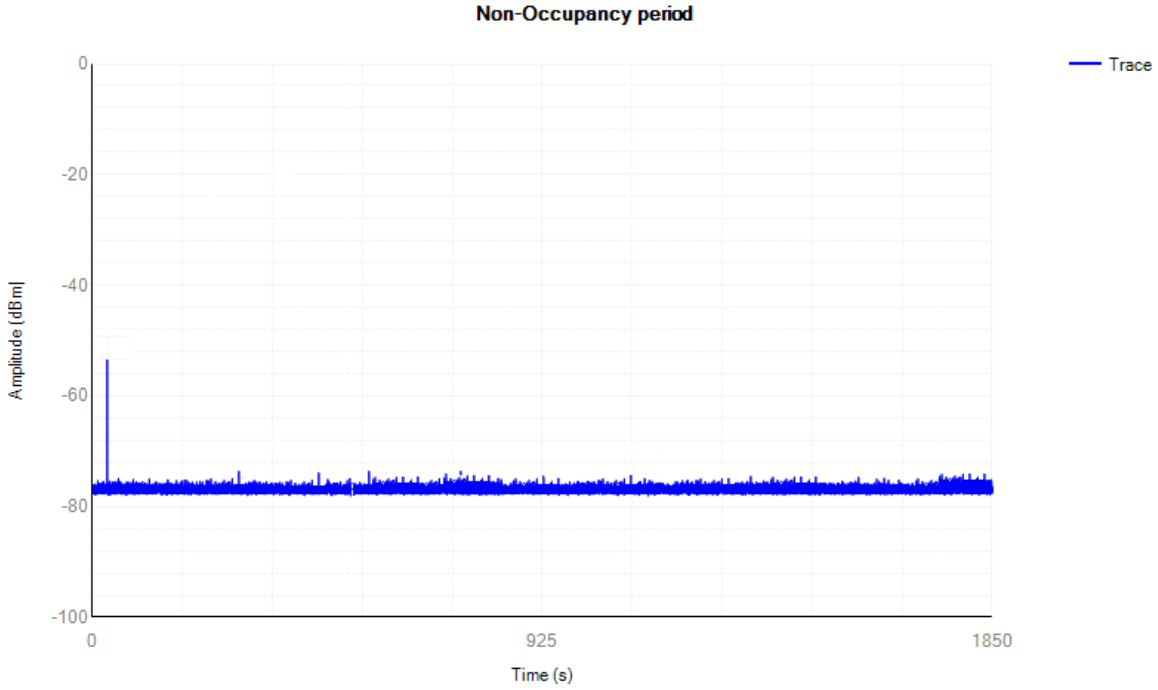
5270MHz n40 Non-Occupancy



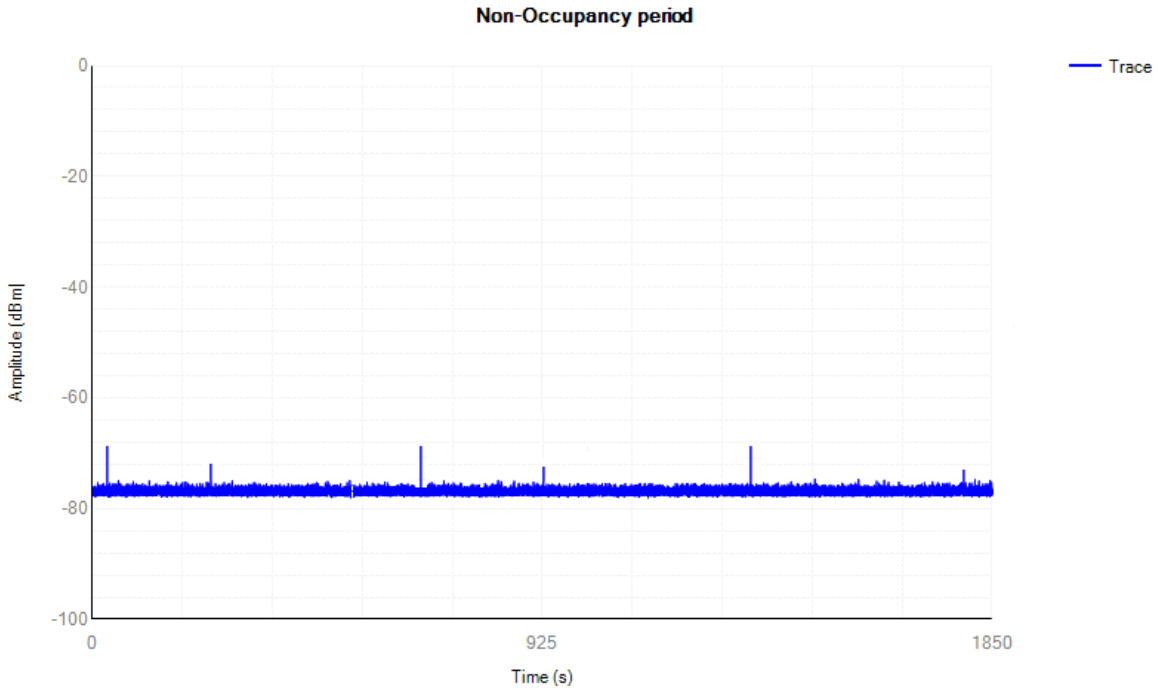
5510MHz n40 Non-Occupancy



5290MHz ac80 Non-Occupancy



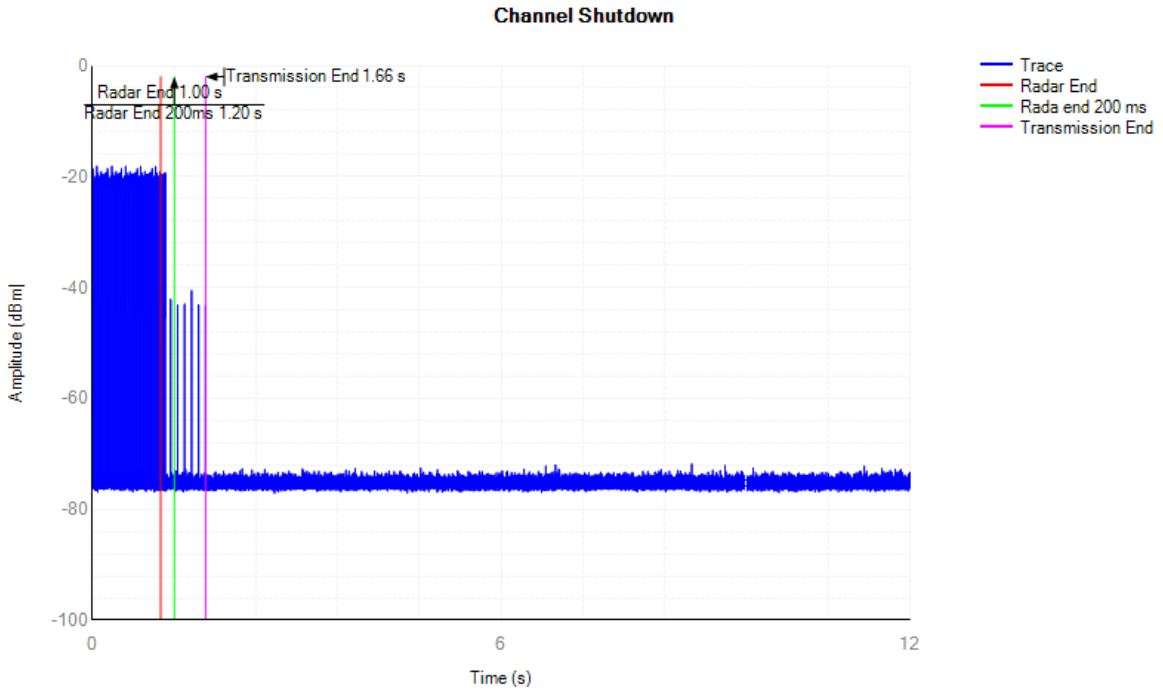
5530MHz ac80 Non-Occupancy



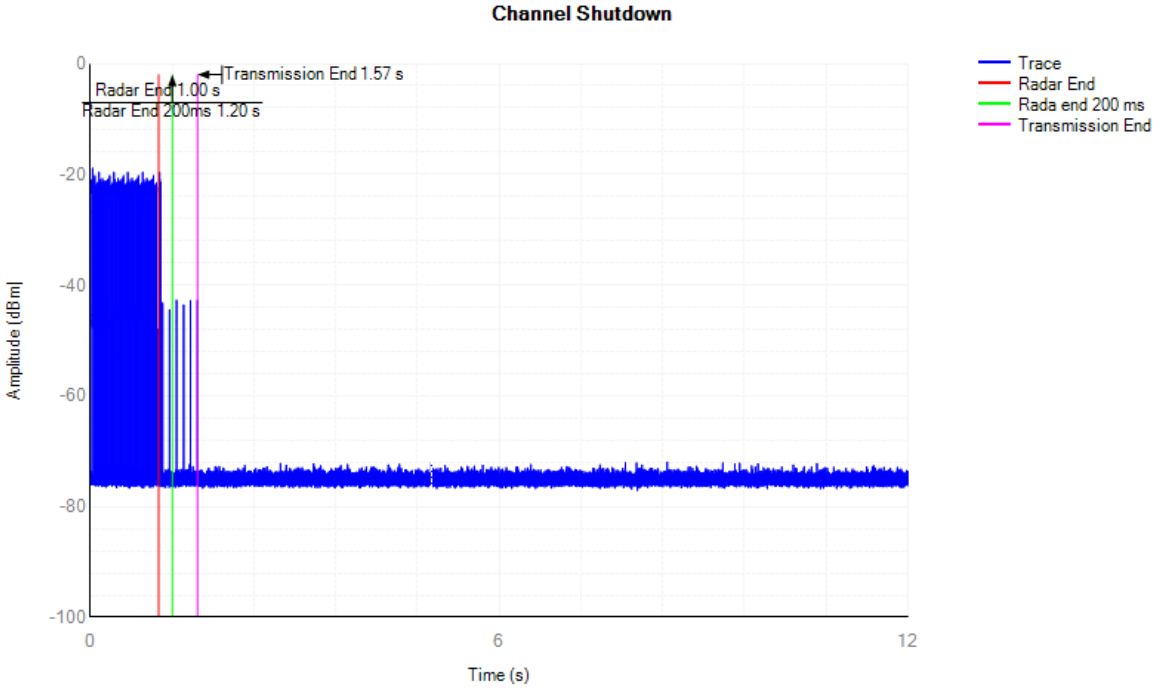
Shutdown Time

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
a	5260	0.6588	10	0.0232	0.26	0.0036	0.06	Pass
a	5500	0.57	10	0.0172	0.26	0.002	0.06	Pass
n40	5270	0.404	10	0.002	0.26	0.0012	0.06	Pass
n40	5510	0.0724	10	0.002	0.26	0	0.06	Pass
ac80	5290	0.0648	10	0.0036	0.26	0	0.06	Pass
ac80	5530	0.3752	10	0.0052	0.26	0.0008	0.06	Pass

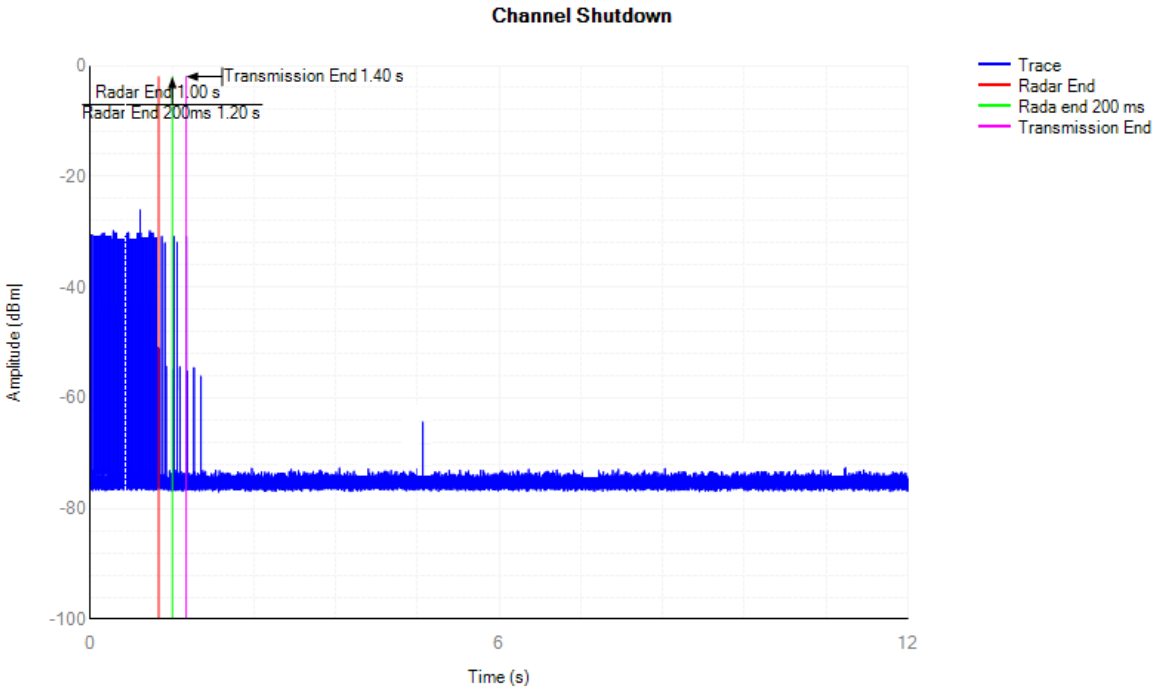
5260MHz a Shutdown



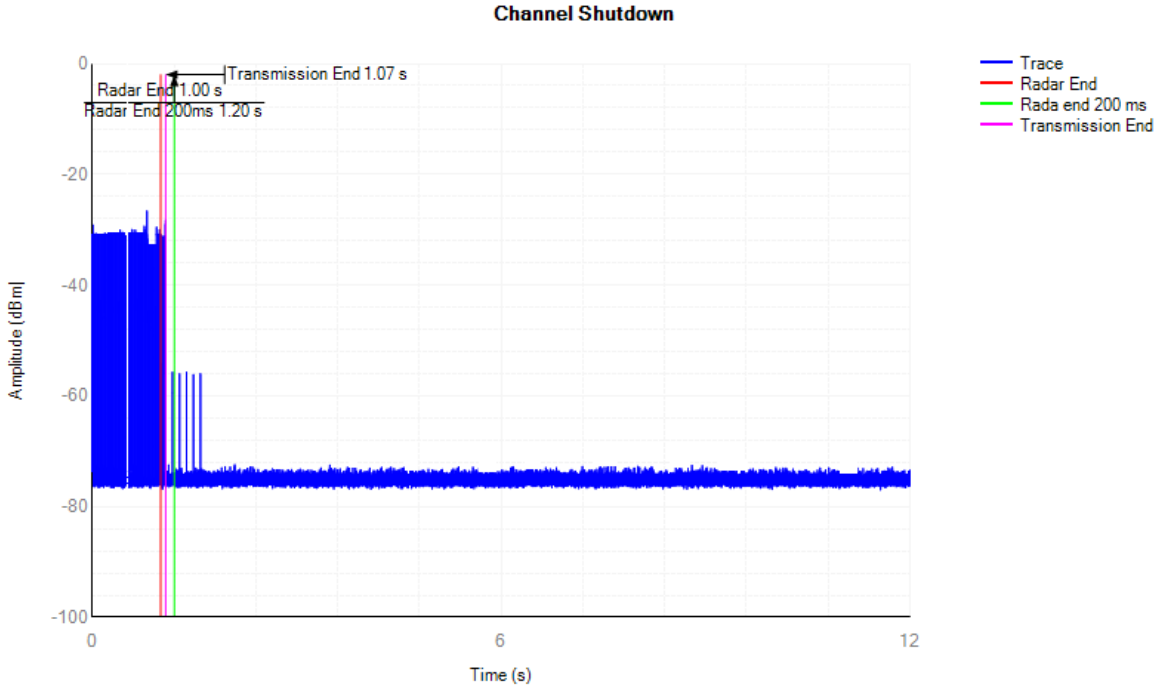
5500MHz a Shutdown



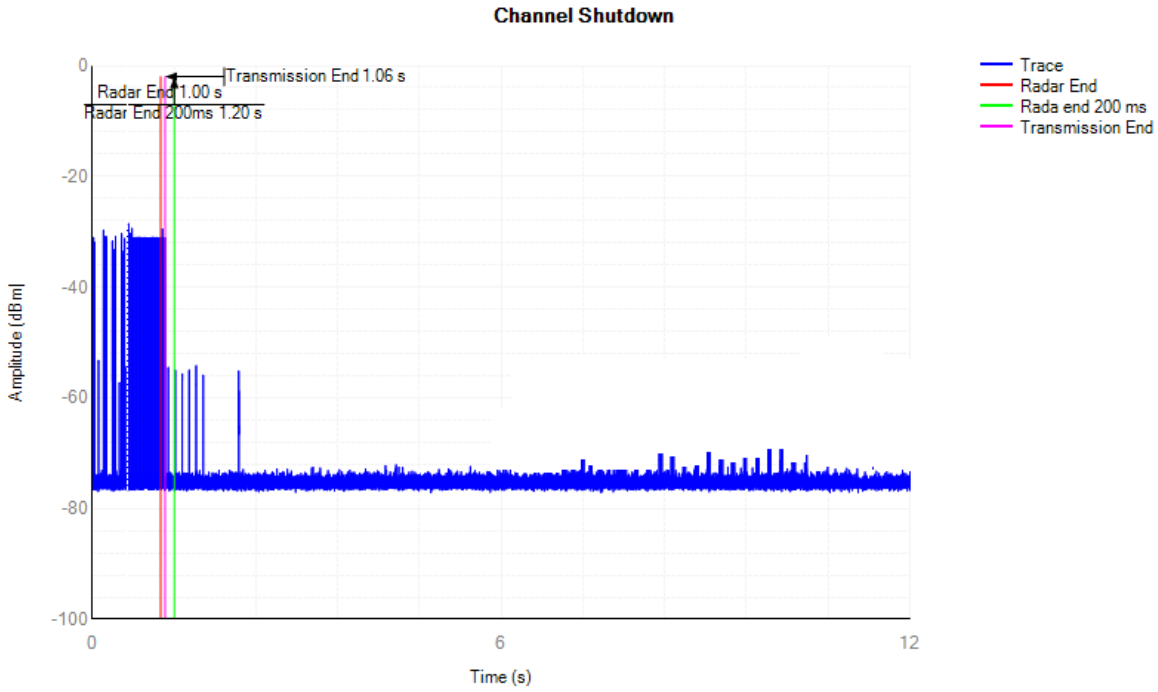
5270MHz n40 Shutdown



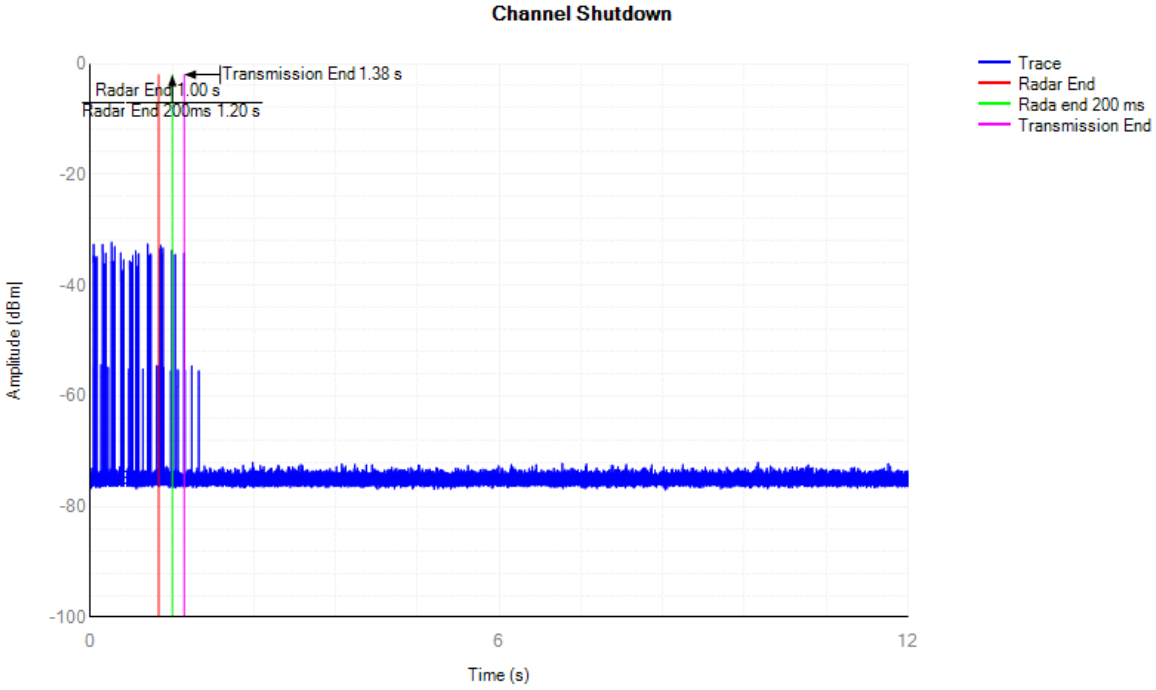
5510MHz n40 Shutdown



5290MHz ac80 Shutdown



5530MHz ac80 Shutdown


Channel Shutdown
Trace
Radar End
Rada end 200 ms
Transmission End
Transmission End 1.38 s
Radar End 1.00 s
Radar End 200ms 1.20 s
0
-20
-40
-60
-80
-100
Amplitude [dBm]
0
6
12
Time (s)