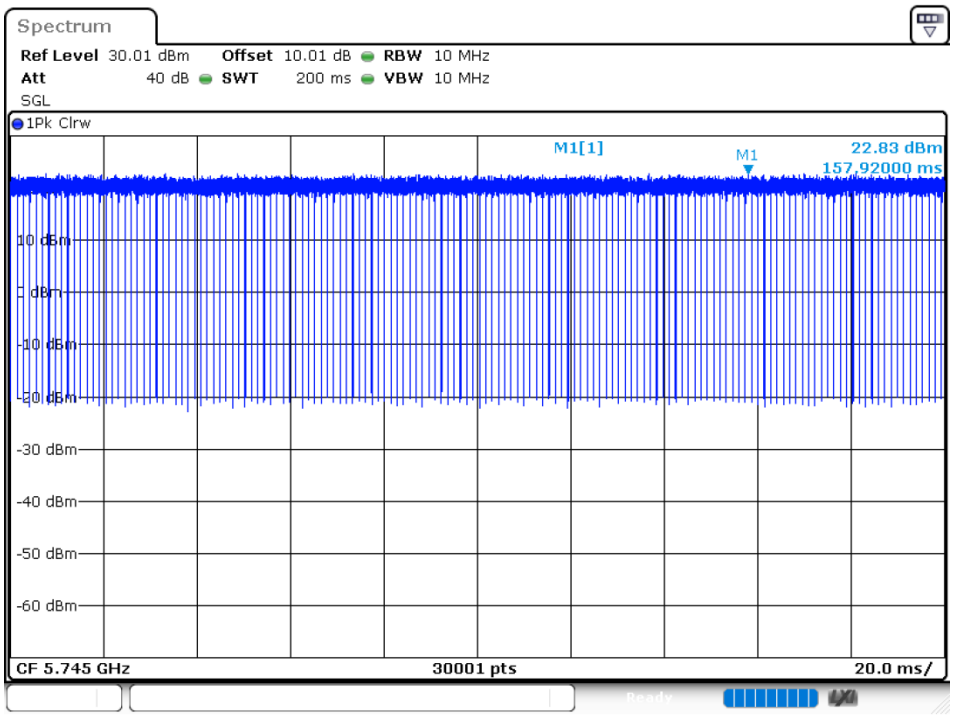
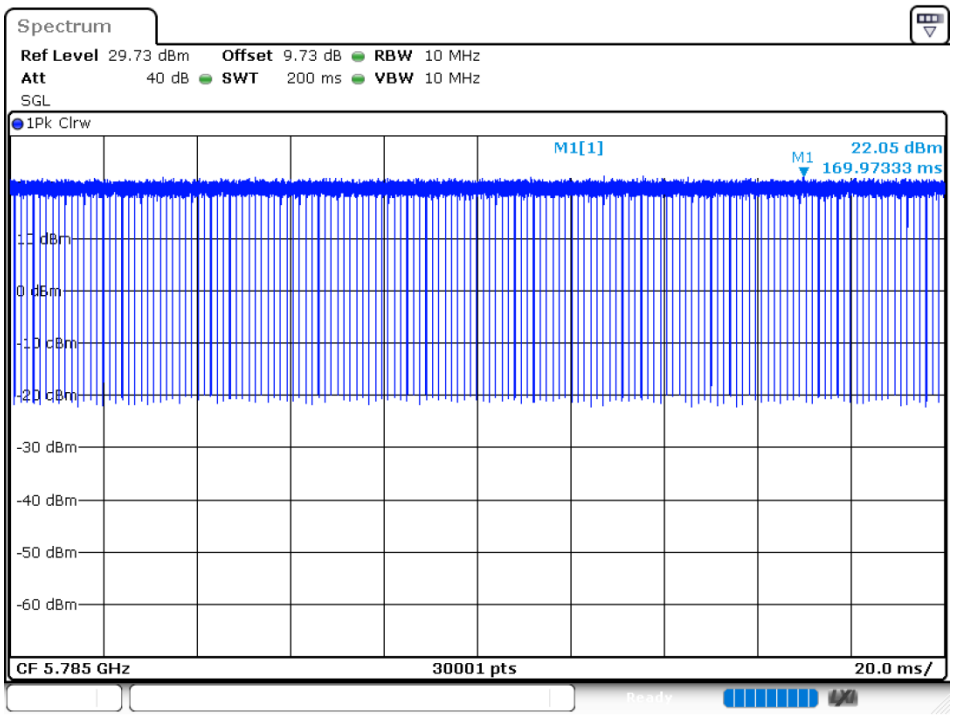
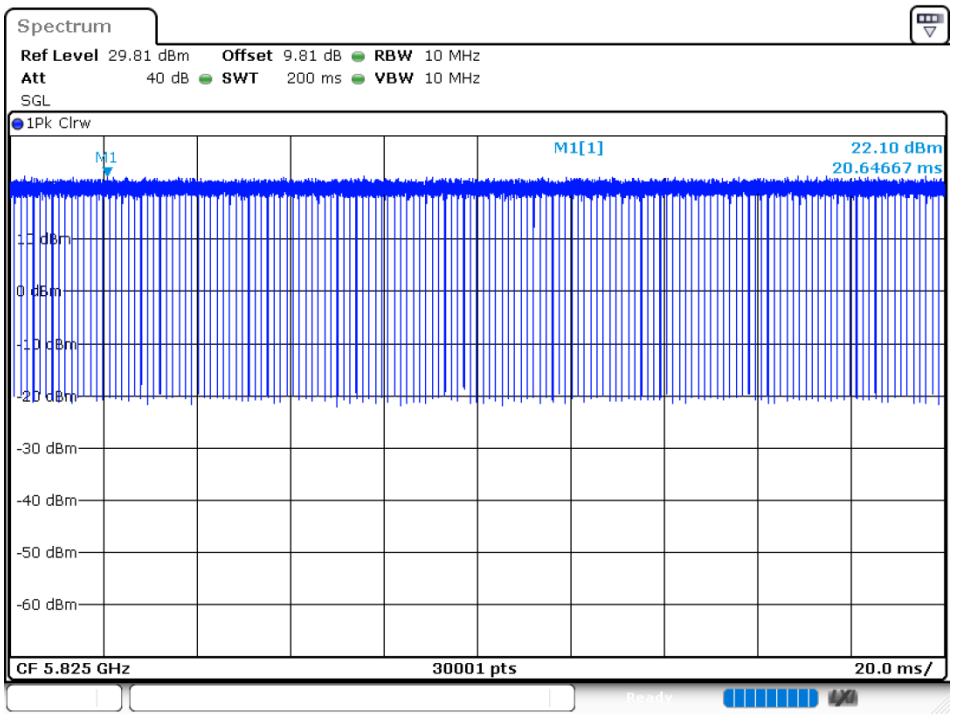


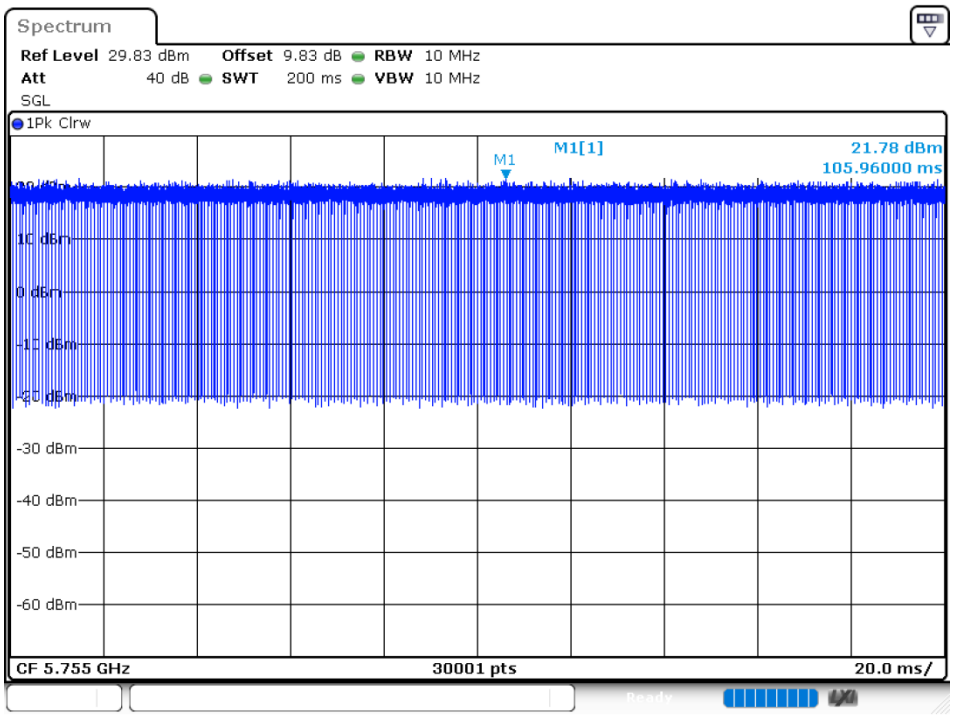
Duty Cycle NVNT 802.11ac20 5785MHz



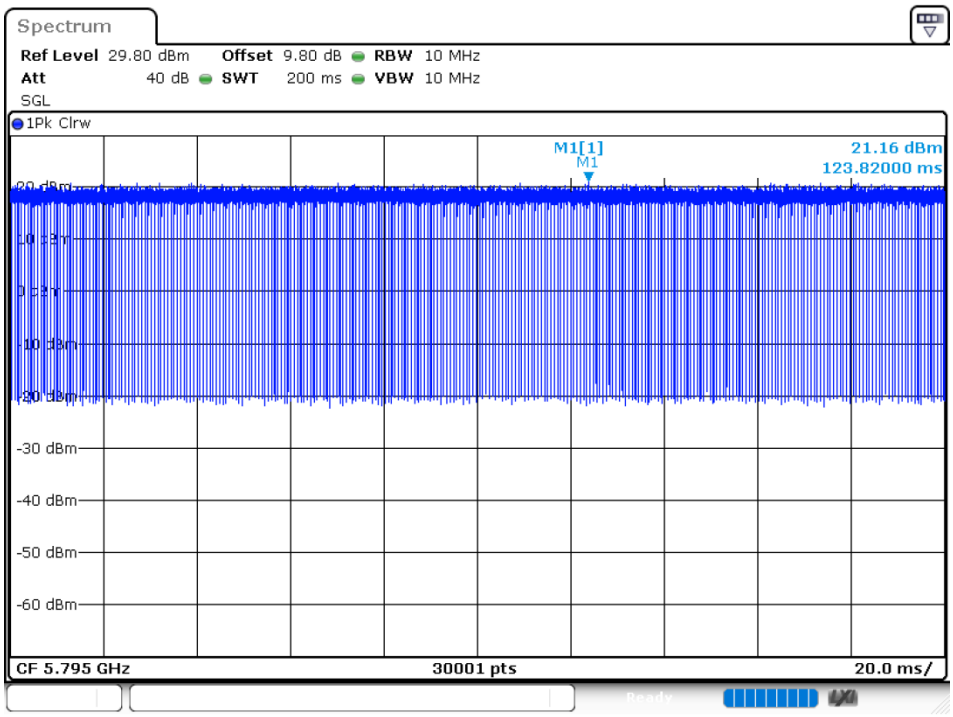
Duty Cycle NVNT 802.11ac20 5825MHz



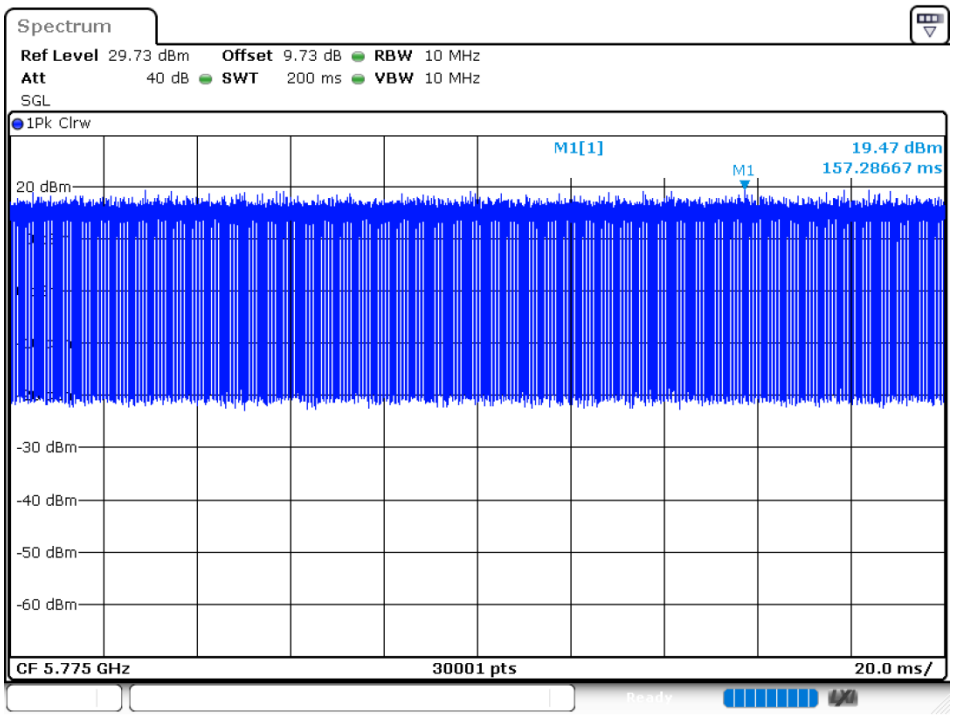
Duty Cycle NVNT 802.11ac40 5755MHz



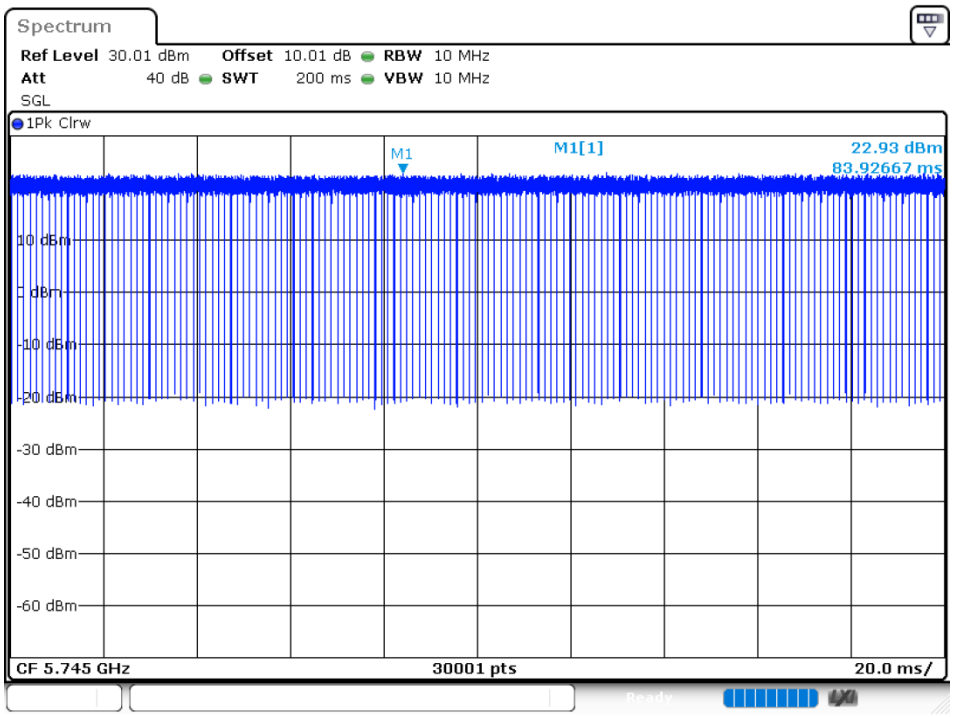
Duty Cycle NVNT 802.11ac40 5795MHz



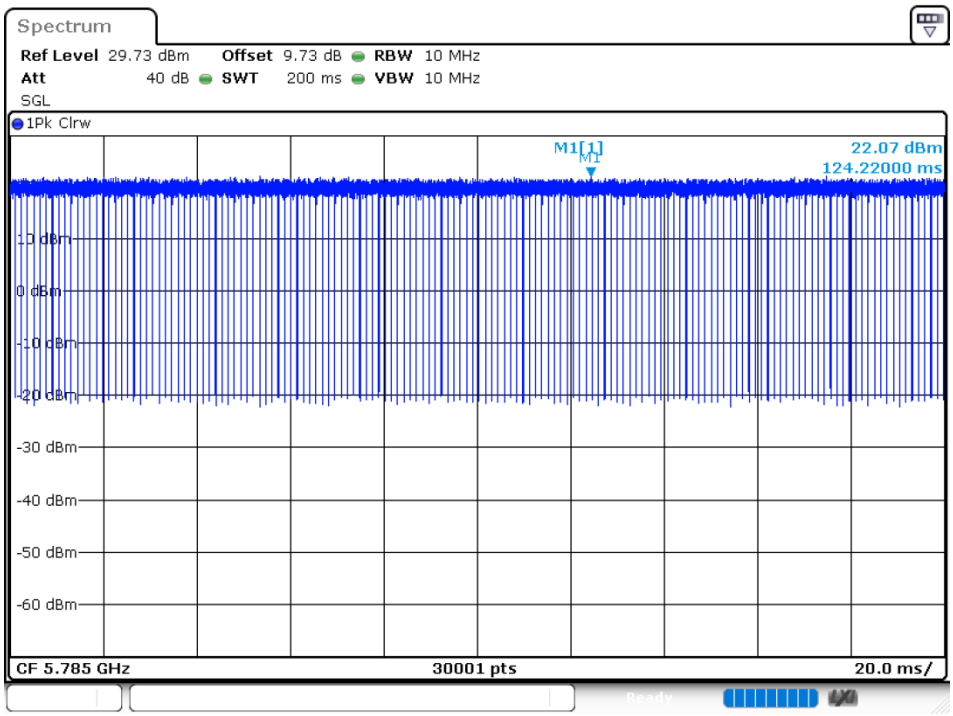
Duty Cycle NVNT 802.11ac80 5775MHz



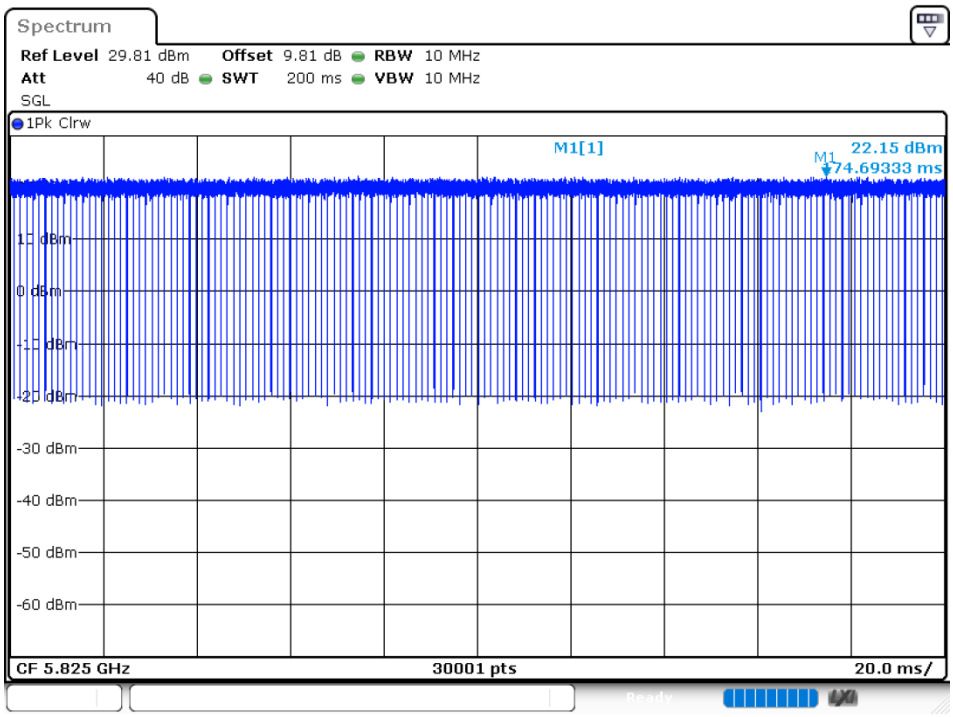
Duty Cycle NVNT 802.11n(HT20) 5745MHz



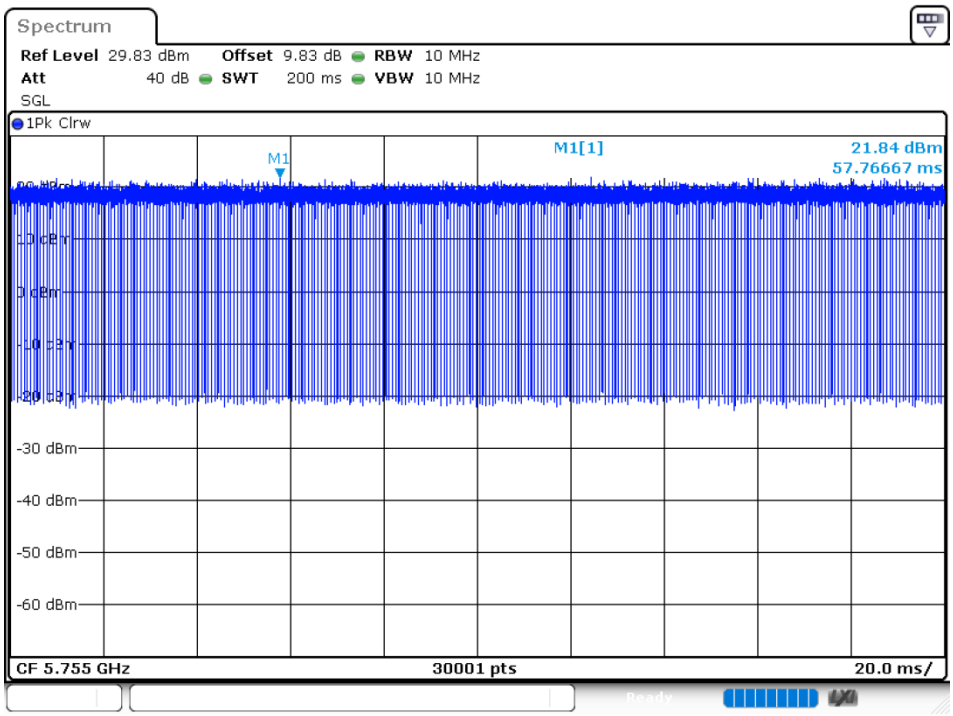
Duty Cycle NVNT 802.11n(HT20) 5785MHz



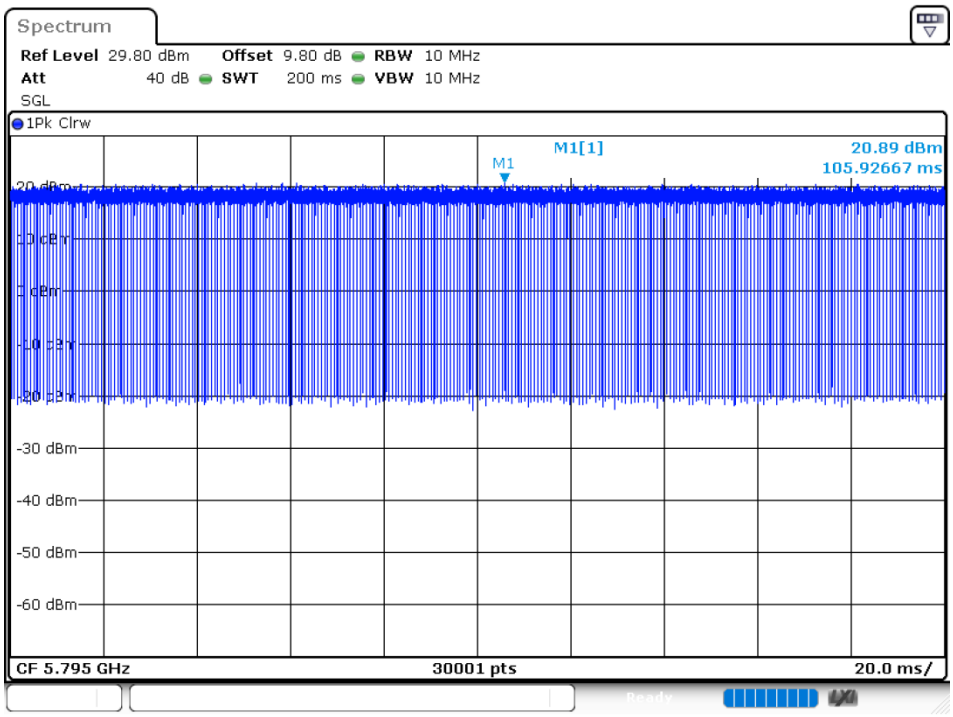
Duty Cycle NVNT 802.11n(HT20) 5825MHz



Duty Cycle NVNT 802.11n(HT40) 5755MHz



Duty Cycle NVNT 802.11n(HT40) 5795MHz


Spectrum
Ref Level 29.80 dBm Offset 9.80 dB RBW 10 MHz
Att 40 dB SWT 200 ms VBW 10 MHz
SGL
1Pk Clrw
M1[1] 20.89 dBm
105.92667 ms
M1
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.795 GHz
30001 pts
20.0 ms/

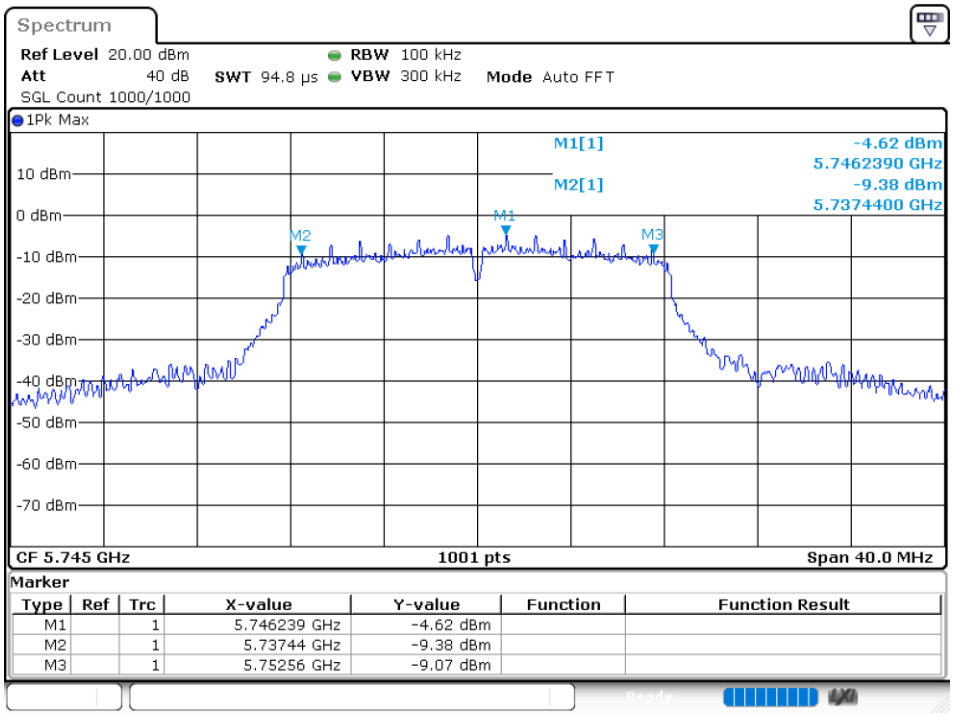
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	Ant 1	14.33	0.12	14.45	30	Pass
NVNT	802.11a	5785	Ant 1	13.74	0.12	13.86	30	Pass
NVNT	802.11a	5825	Ant 1	13.98	0.12	14.1	30	Pass
NVNT	802.11ac20	5745	Ant 1	14.12	0.12	14.24	30	Pass
NVNT	802.11ac20	5785	Ant 1	13.59	0.12	13.71	30	Pass
NVNT	802.11ac20	5825	Ant 1	13.71	0.12	13.83	30	Pass
NVNT	802.11ac40	5755	Ant 1	14.35	0.24	14.59	30	Pass
NVNT	802.11ac40	5795	Ant 1	14.53	0.24	14.77	30	Pass
NVNT	802.11ac80	5775	Ant 1	14	0.47	14.47	30	Pass
NVNT	802.11n(HT20)	5745	Ant 1	14.19	0.12	14.31	30	Pass
NVNT	802.11n(HT20)	5785	Ant 1	13.57	0.12	13.69	30	Pass
NVNT	802.11n(HT20)	5825	Ant 1	13.75	0.12	13.87	30	Pass
NVNT	802.11n(HT40)	5755	Ant 1	14.27	0.24	14.51	30	Pass
NVNT	802.11n(HT40)	5795	Ant 1	14.43	0.24	14.67	30	Pass

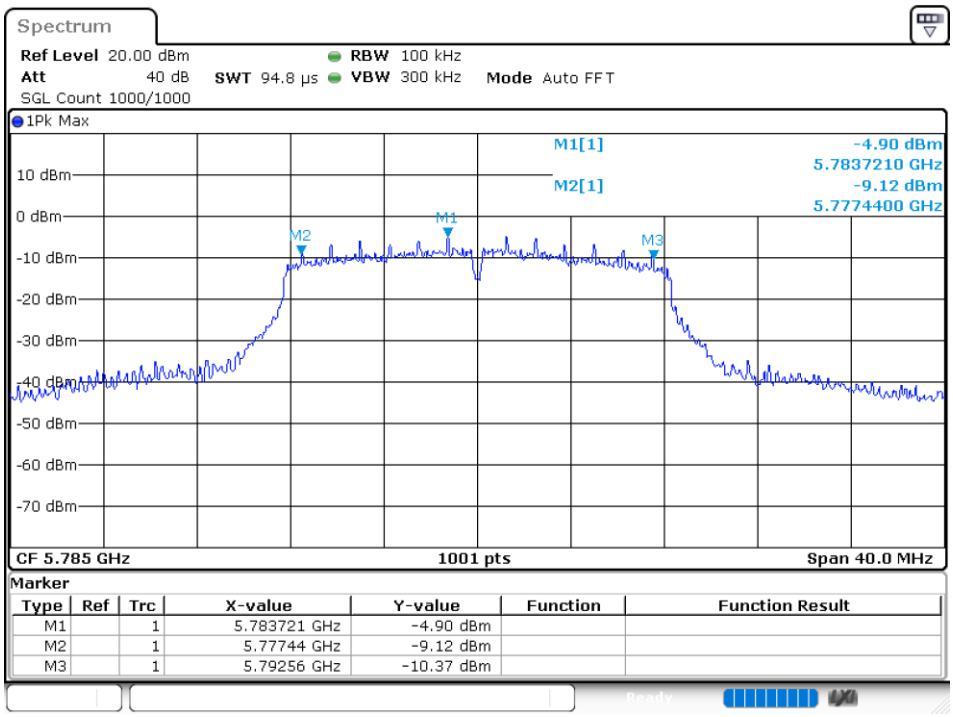
-6dB Emission Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	Ant 1	15.12	0.5	Pass
NVNT	802.11a	5785	Ant 1	15.12	0.5	Pass
NVNT	802.11a	5825	Ant 1	15.08	0.5	Pass
NVNT	802.11ac20	5745	Ant 1	16.08	0.5	Pass
NVNT	802.11ac20	5785	Ant 1	15.12	0.5	Pass
NVNT	802.11ac20	5825	Ant 1	14.2	0.5	Pass
NVNT	802.11ac40	5755	Ant 1	35.04	0.5	Pass
NVNT	802.11ac40	5795	Ant 1	35.12	0.5	Pass
NVNT	802.11ac80	5775	Ant 1	75.2	0.5	Pass
NVNT	802.11n(HT20)	5745	Ant 1	17.52	0.5	Pass
NVNT	802.11n(HT20)	5785	Ant 1	15.12	0.5	Pass
NVNT	802.11n(HT20)	5825	Ant 1	15.12	0.5	Pass
NVNT	802.11n(HT40)	5755	Ant 1	35.12	0.5	Pass
NVNT	802.11n(HT40)	5795	Ant 1	35.12	0.5	Pass

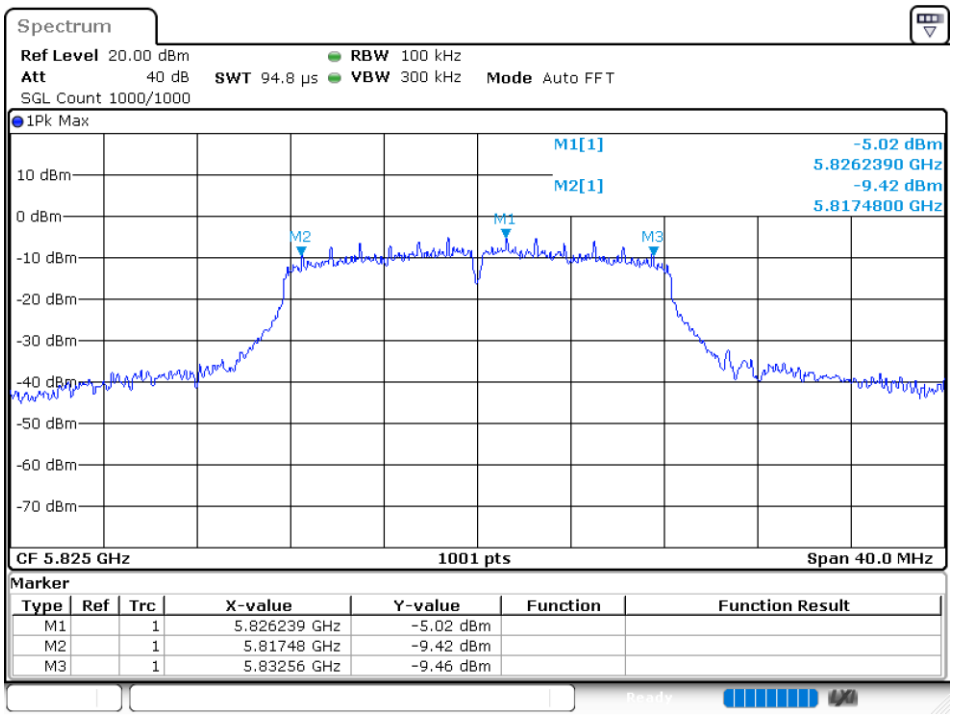
EBW NVNT 802.11a 5745MHz Ant1



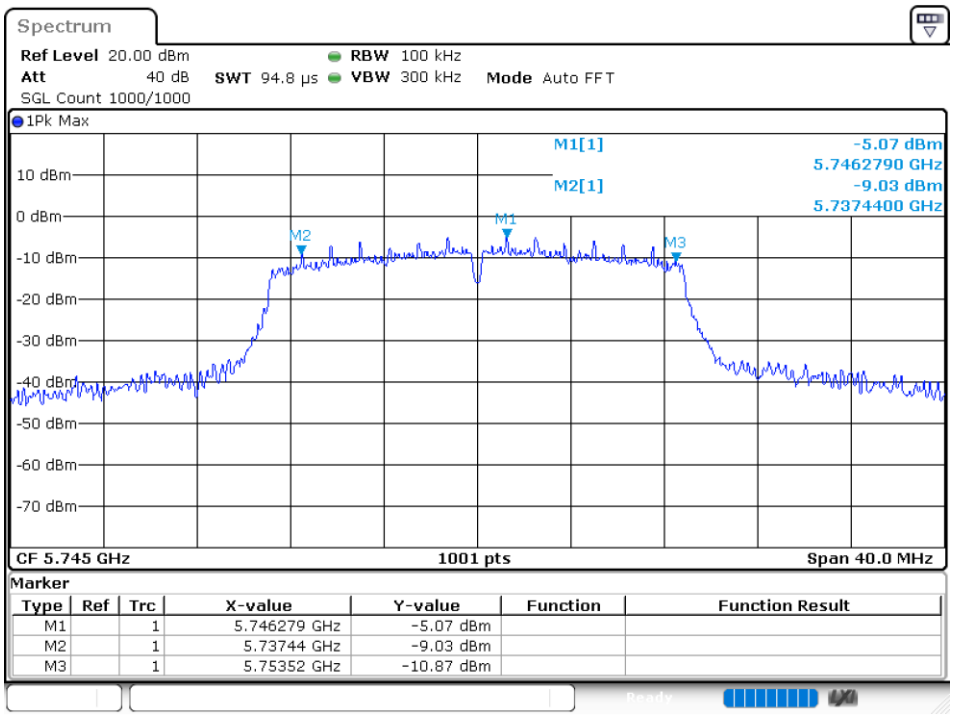
EBW NVNT 802.11a 5785MHz Ant1



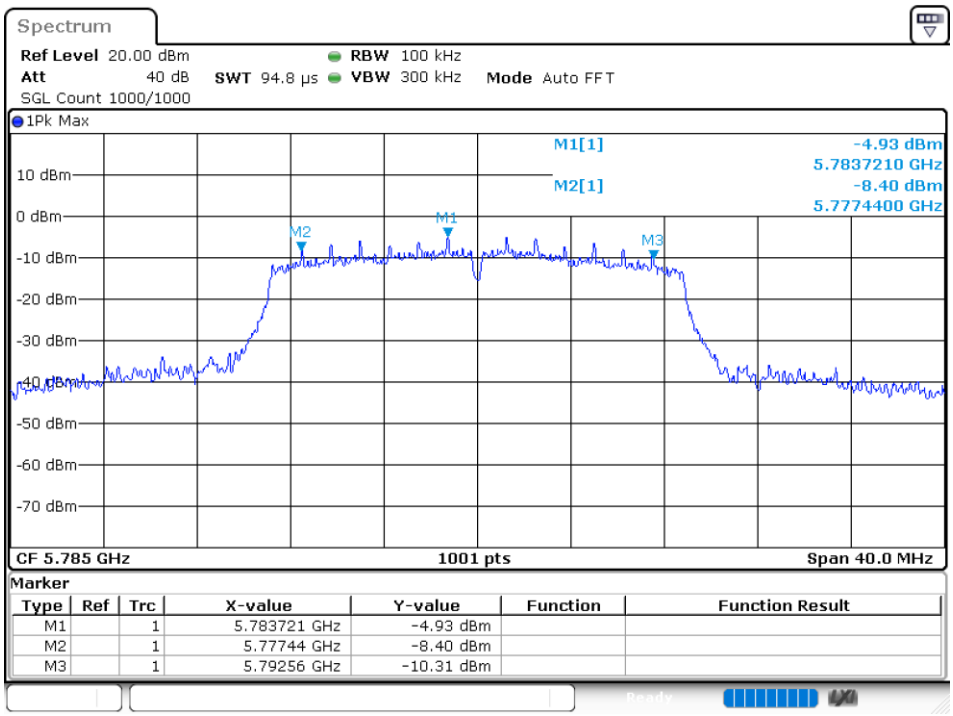
EBW NVNT 802.11a 5825MHz Ant1



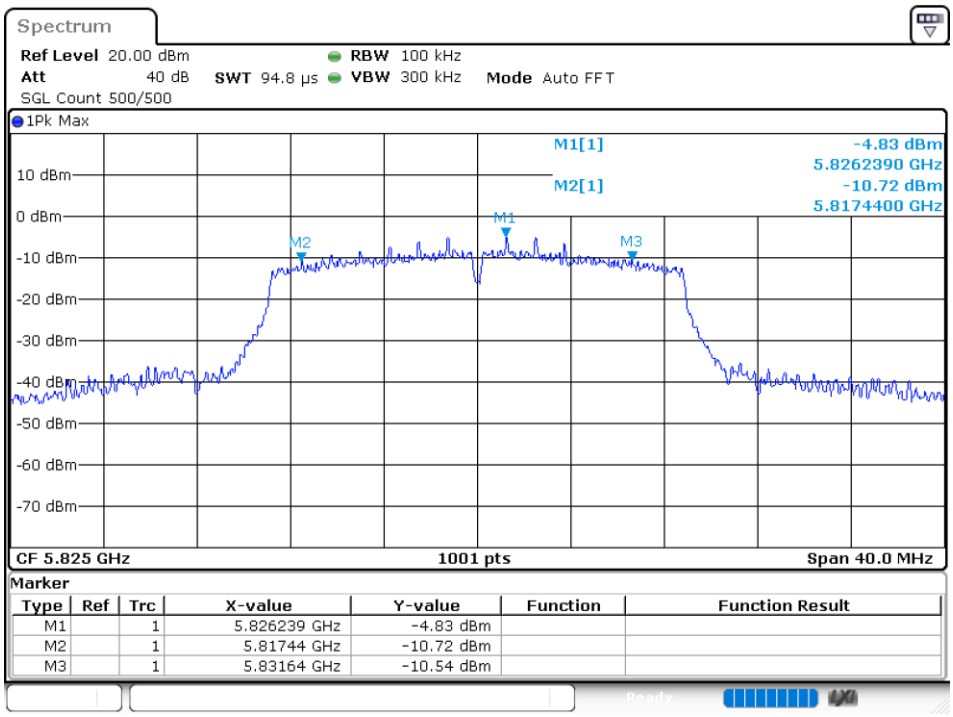
EBW NVNT 802.11ac20 5745MHz Ant1



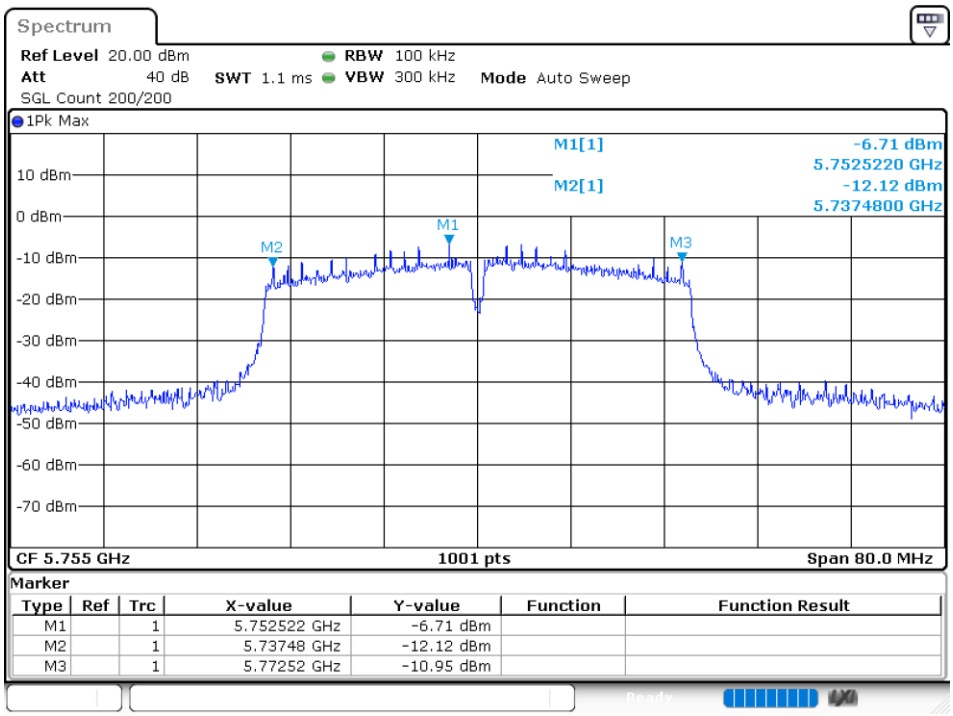
EBW NVNT 802.11ac20 5785MHz Ant1



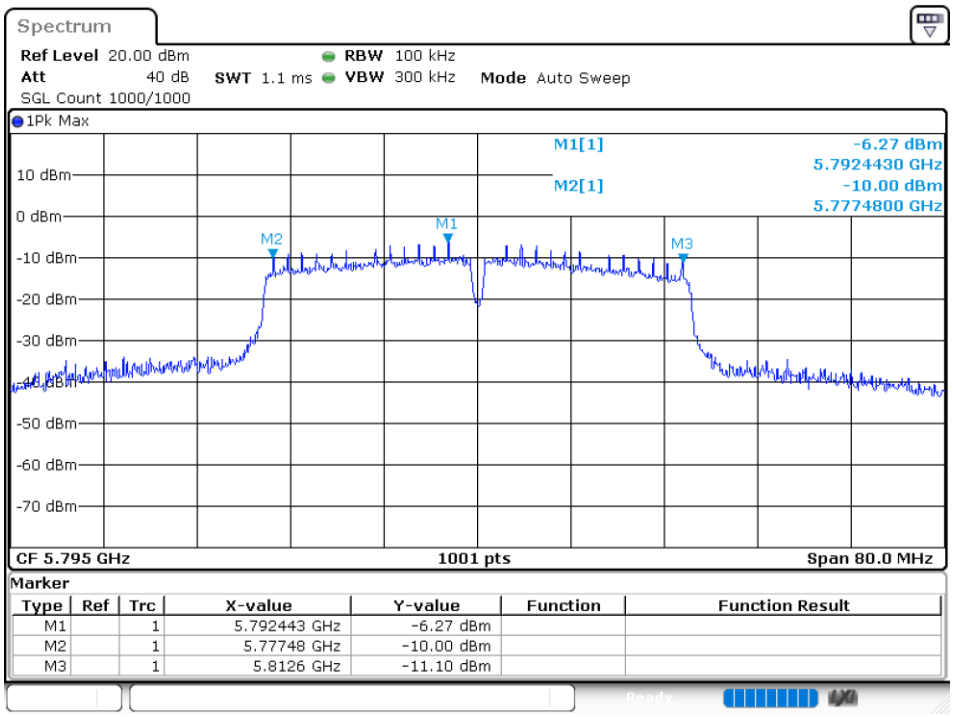
EBW NVNT 802.11ac20 5825MHz Ant1



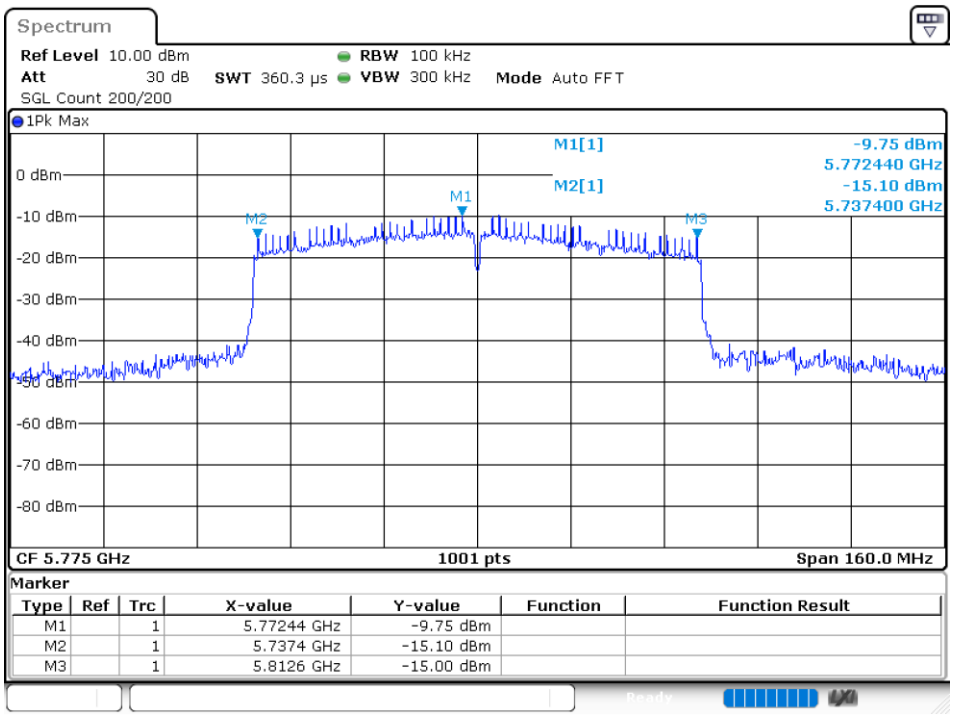
EBW NVNT 802.11ac40 5755MHz Ant1



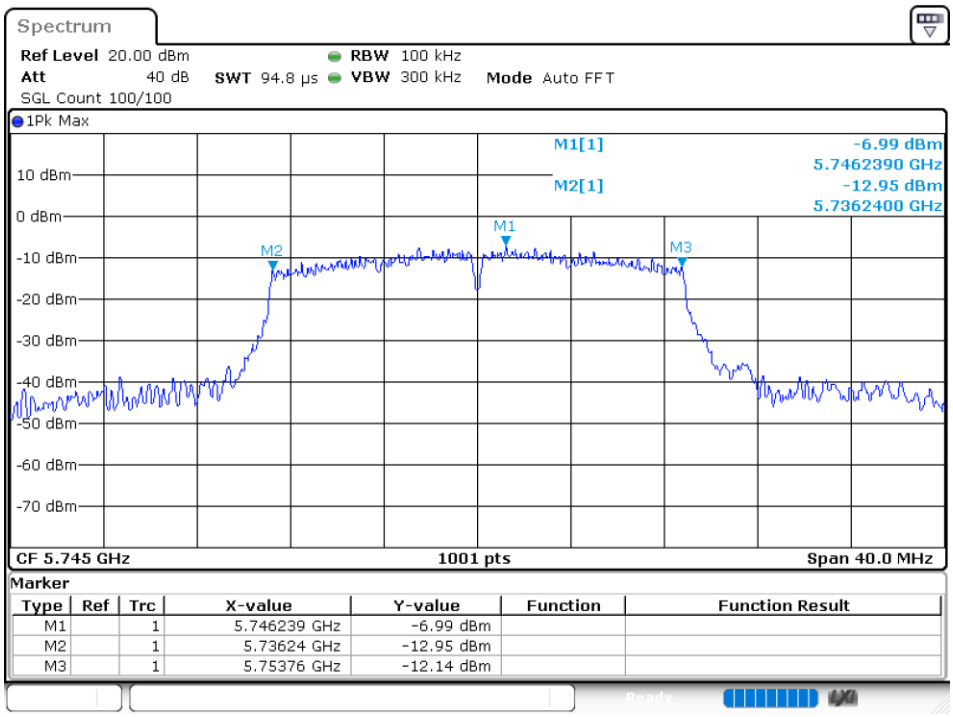
EBW NVNT 802.11ac40 5795MHz Ant1



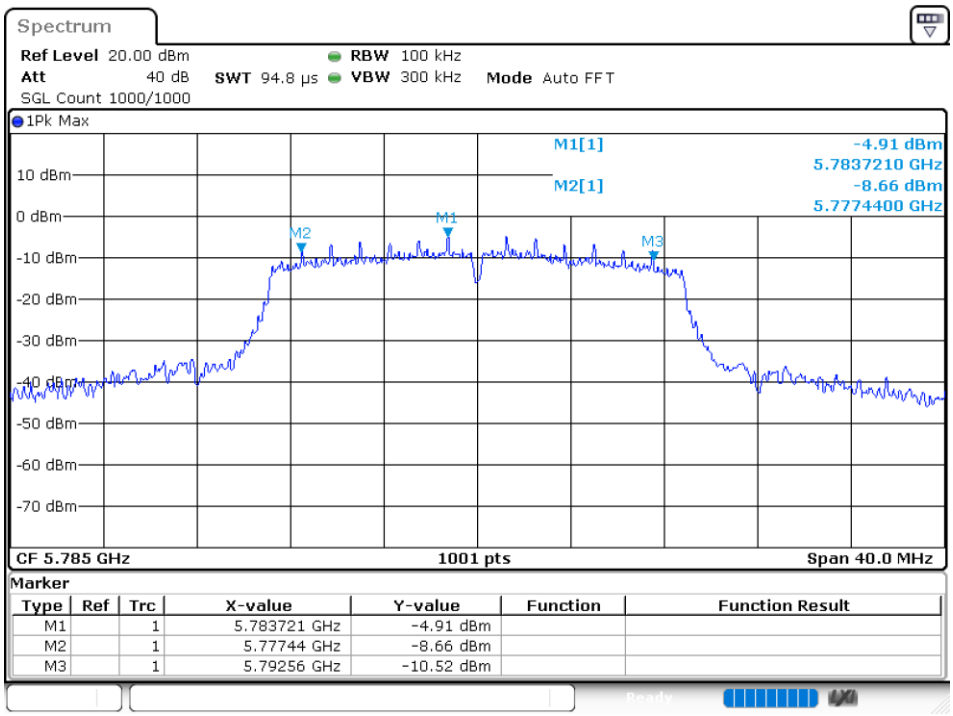
EBW NVNT 802.11ac80 5775MHz Ant1



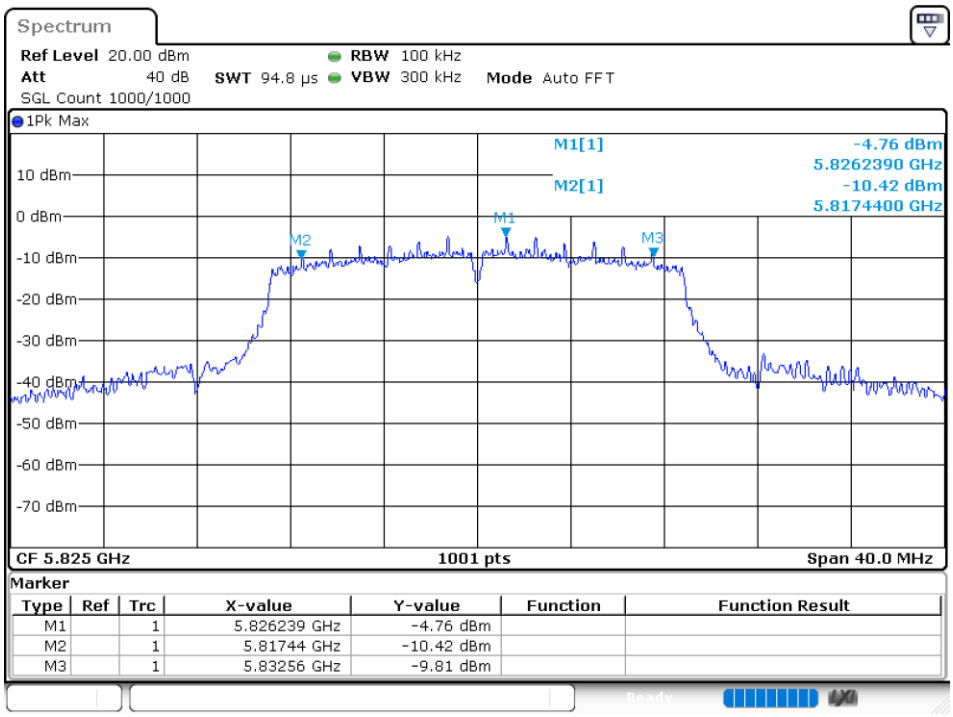
EBW NVNT 802.11n(HT20) 5745MHz Ant1



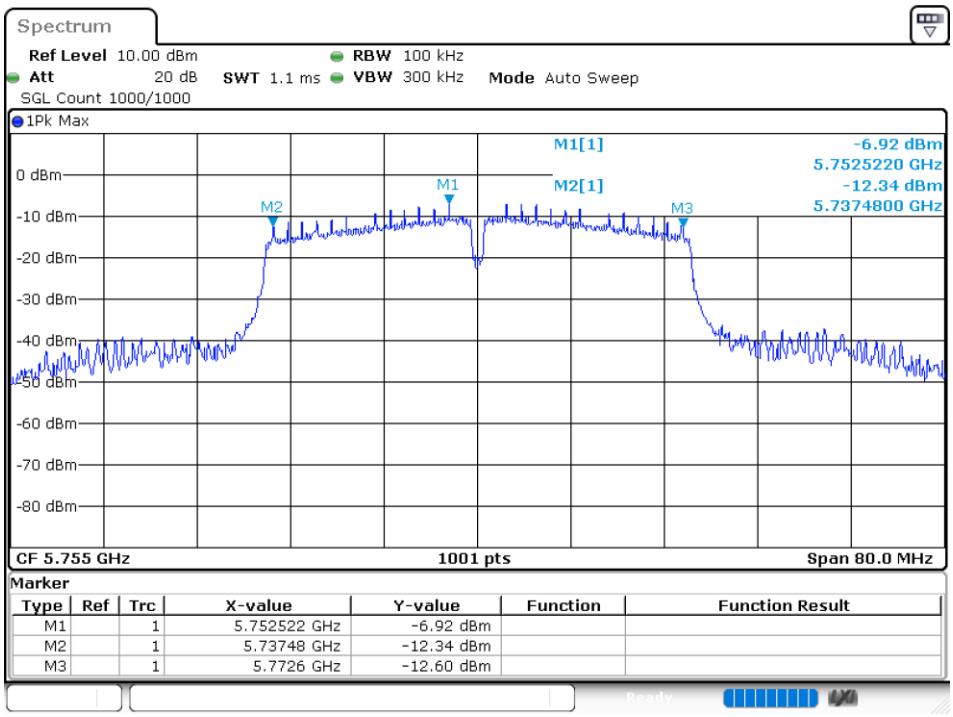
EBW NVNT 802.11n(HT20) 5785MHz Ant1



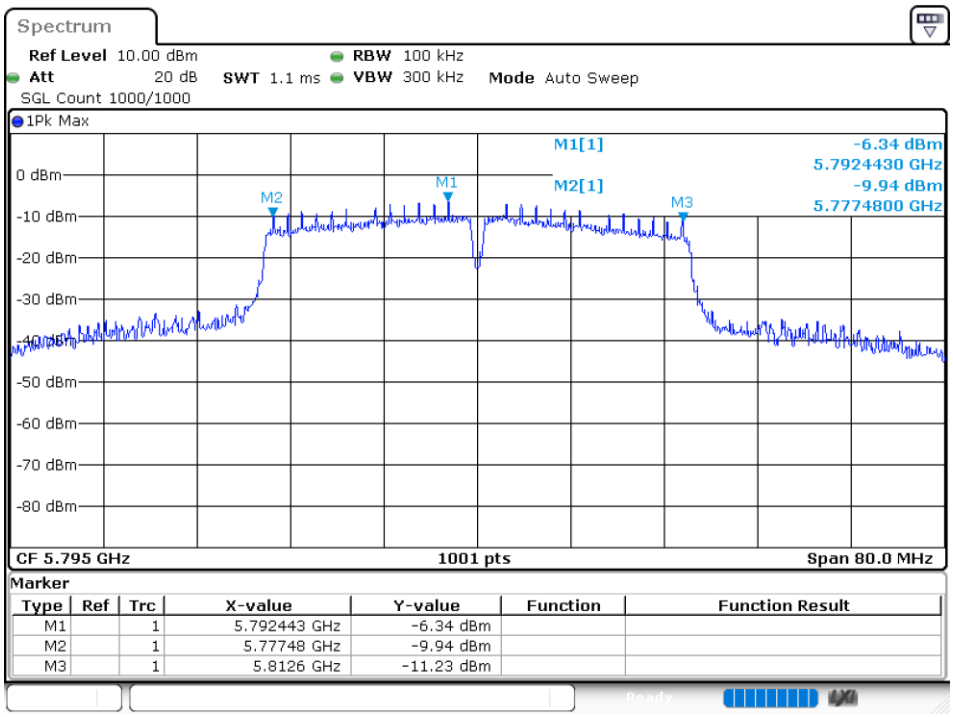
EBW NVNT 802.11n(HT20) 5825MHz Ant1



EBW NVNT 802.11n(HT40) 5755MHz Ant1



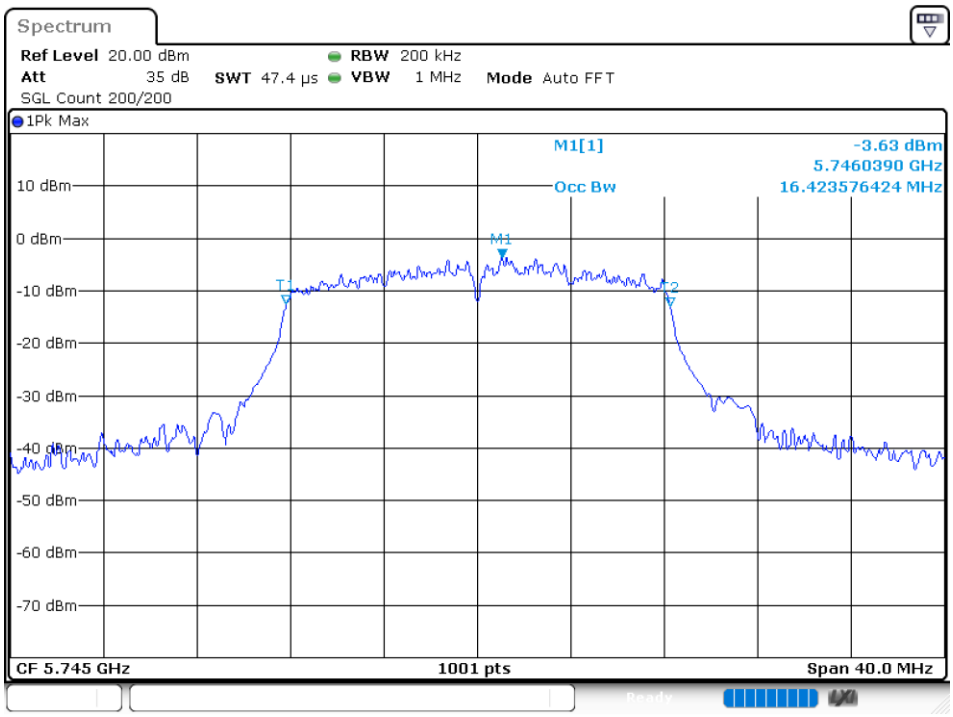
EBW NVNT 802.11n(HT40) 5795MHz Ant1


Spectrum
Ref Level 10.00 dBm
RBW 100 kHz
Att 20 dB
SWT 1.1 ms
VBW 300 kHz
Mode Auto Sweep
SGL Count 1000/1000
1Pk Max
M1[1] -6.34 dBm 5.7924430 GHz
M2[1] -9.94 dBm 5.7774800 GHz
M1
M2
M3
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
CF 5.795 GHz
1001 pts
Span 80.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.792443 GHz -6.34 dBm
M2 1 5.77748 GHz -9.94 dBm
M3 1 5.8126 GHz -11.23 dBm

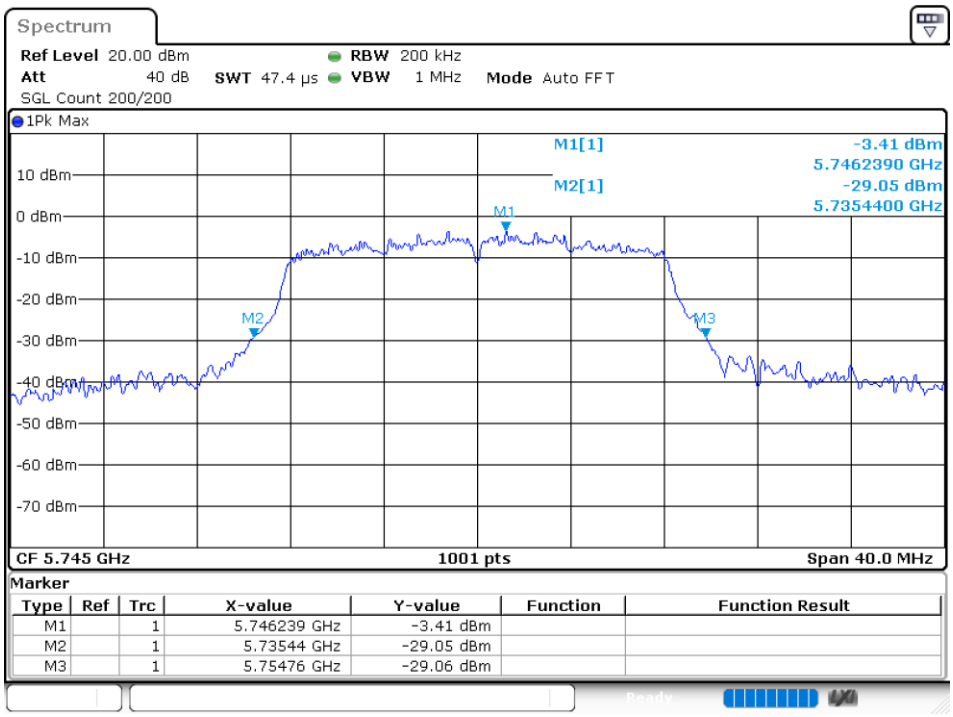
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	Ant 1	16.4236	19.32	Pass
NVNT	802.11a	5785	Ant 1	16.5435	19.88	Pass
NVNT	802.11a	5825	Ant 1	16.3836	20.48	Pass
NVNT	802.11ac20	5745	Ant 1	17.5025	19.92	Pass
NVNT	802.11ac20	5785	Ant 1	17.5824	19.8	Pass
NVNT	802.11ac20	5825	Ant 1	17.5824	20.04	Pass
NVNT	802.11ac40	5755	Ant 1	36.2837	44.72	Pass
NVNT	802.11ac40	5795	Ant 1	36.9231	65.2	Pass
NVNT	802.11ac80	5775	Ant 1	75.4446	81.28	Pass
NVNT	802.11n(HT20)	5745	Ant 1	17.7023	25.16	Pass
NVNT	802.11n(HT20)	5785	Ant 1	17.5824	22.72	Pass
NVNT	802.11n(HT20)	5825	Ant 1	17.7023	21	Pass
NVNT	802.11n(HT40)	5755	Ant 1	36.4436	45.2	Pass
NVNT	802.11n(HT40)	5795	Ant 1	37.2428	67.04	Pass

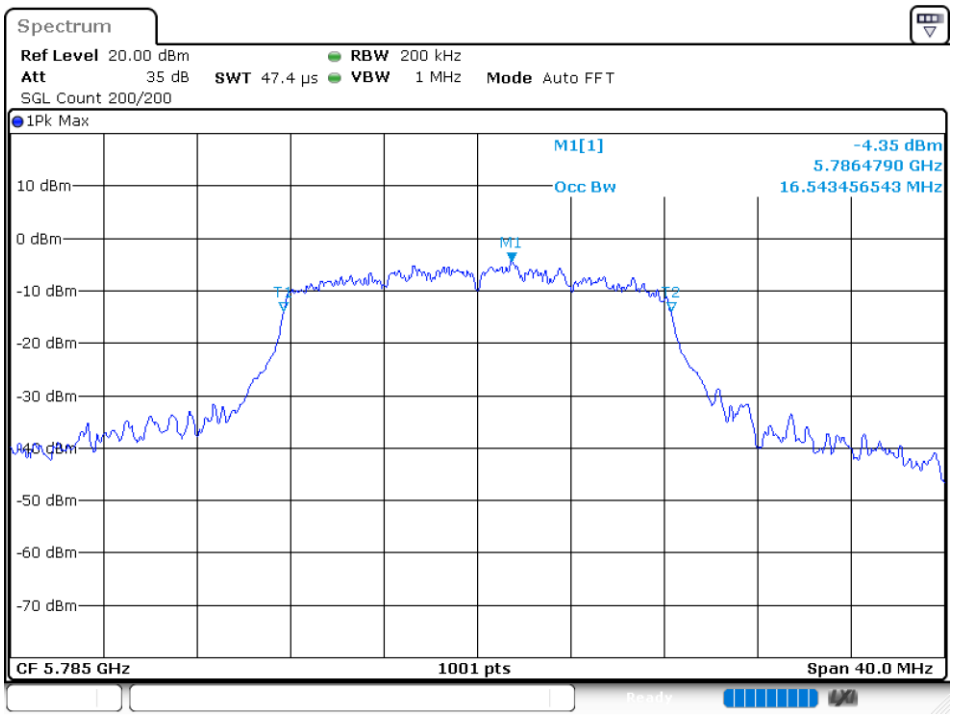
OBW NVNT 802.11a 5745MHz Ant1



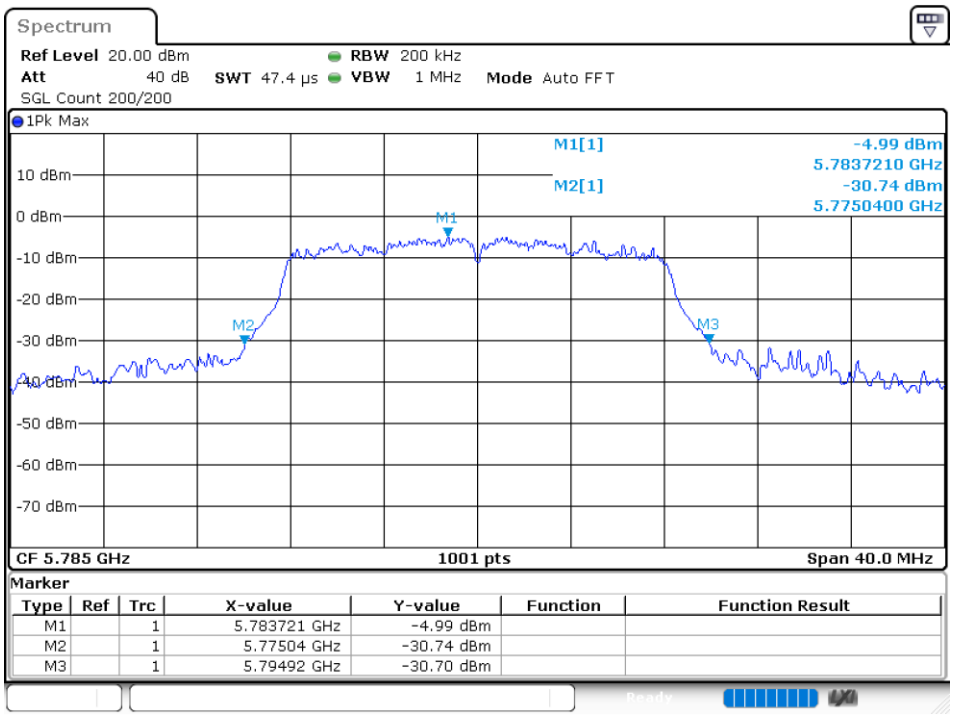
-26 dB BW NVNT 802.11a 5745MHz Ant1



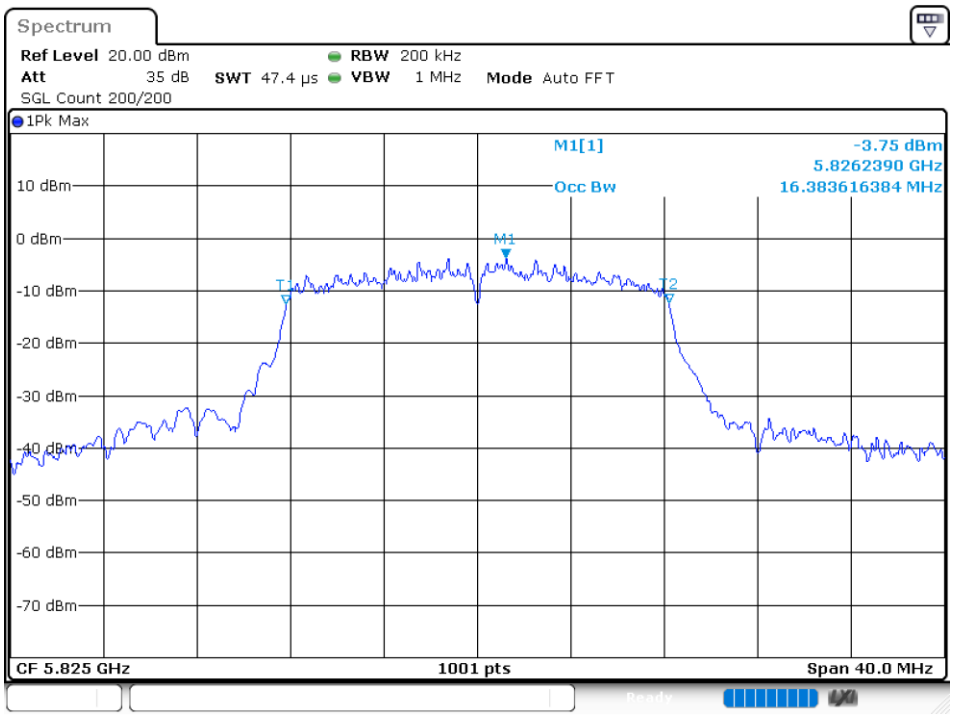
OBW NVNT 802.11a 5785MHz Ant1



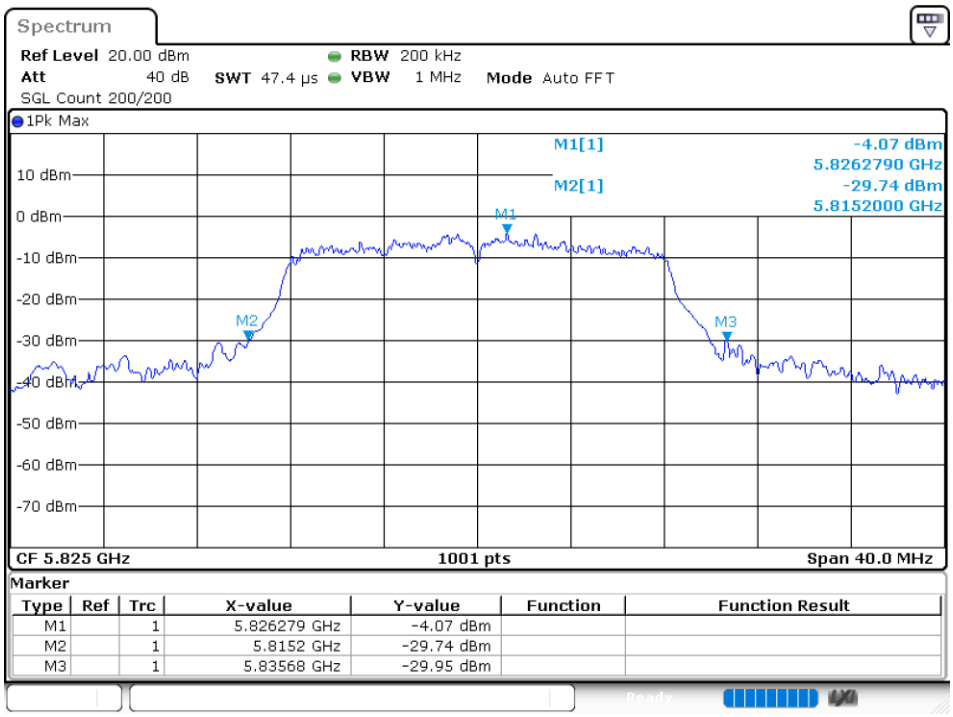
-26 dB BW NVNT 802.11a 5785MHz Ant1



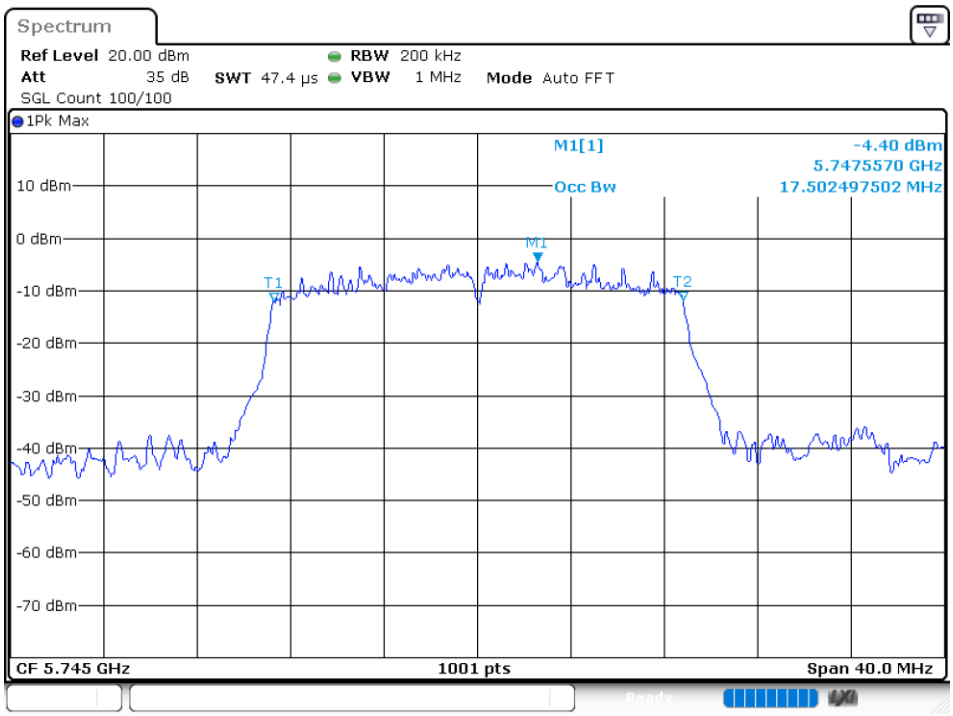
OBW NVNT 802.11a 5825MHz Ant1



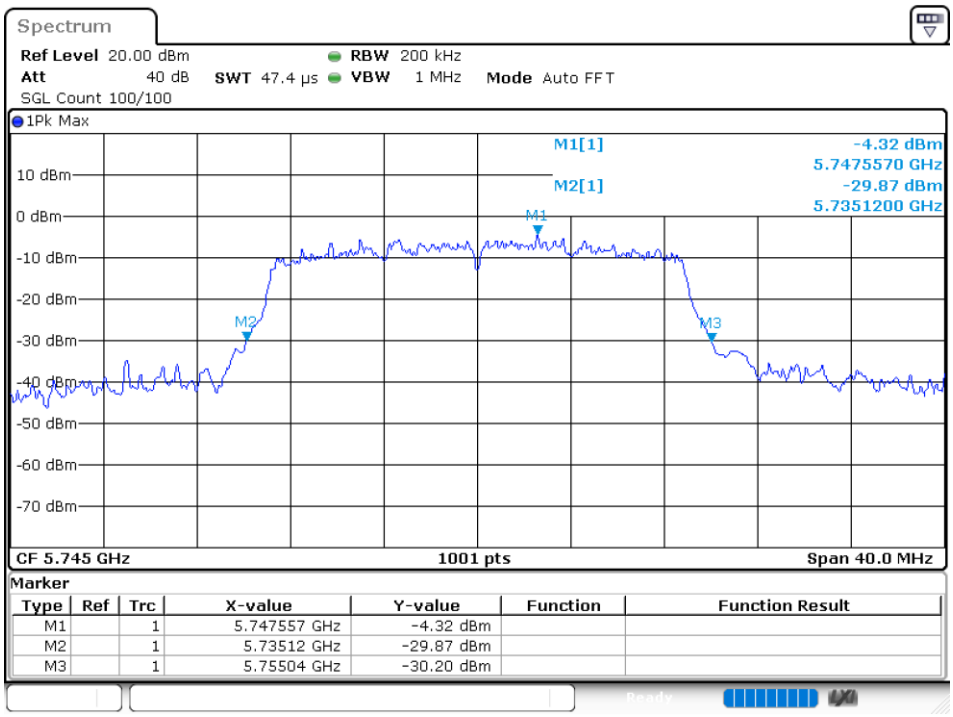
-26 dB BW NVNT 802.11a 5825MHz Ant1



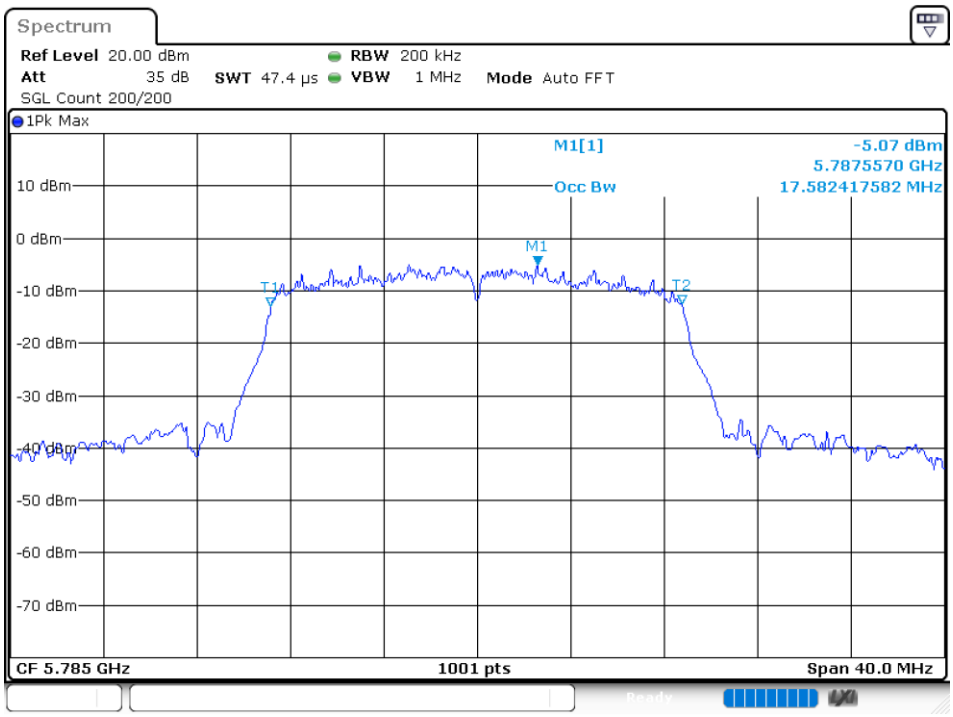
OBW NVNT 802.11ac20 5745MHz Ant1



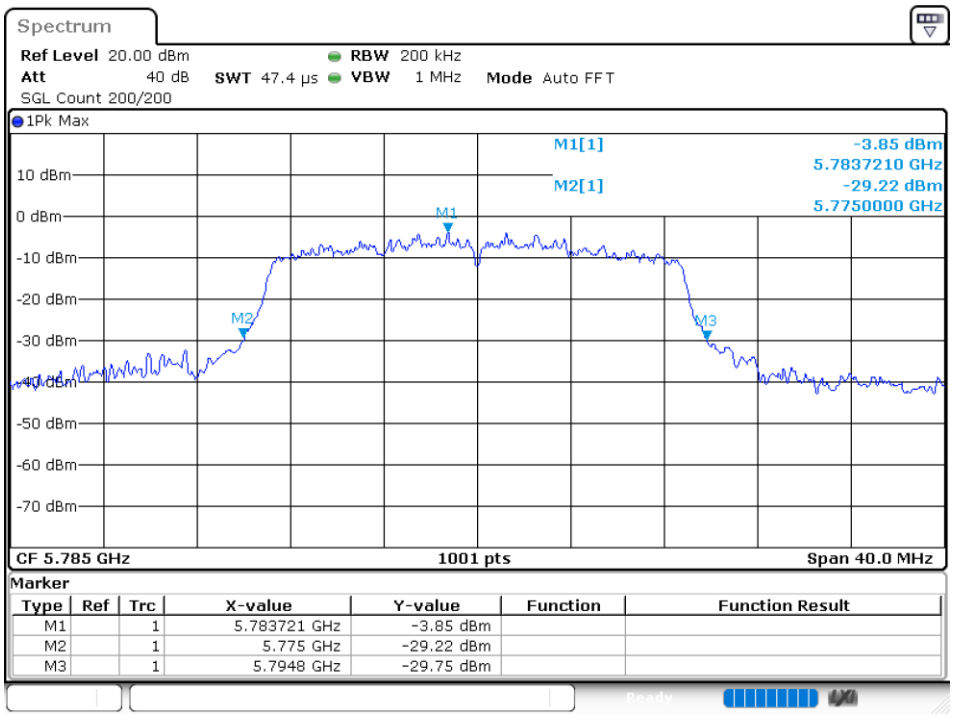
-26 dB BW NVNT 802.11ac20 5745MHz Ant1



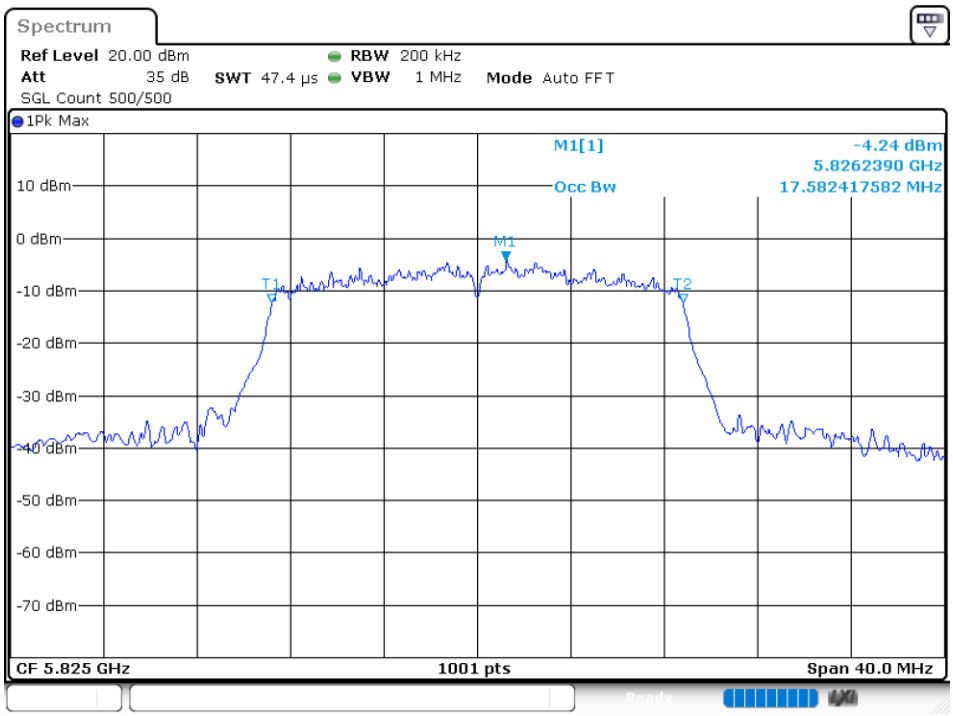
OBW NVNT 802.11ac20 5785MHz Ant1



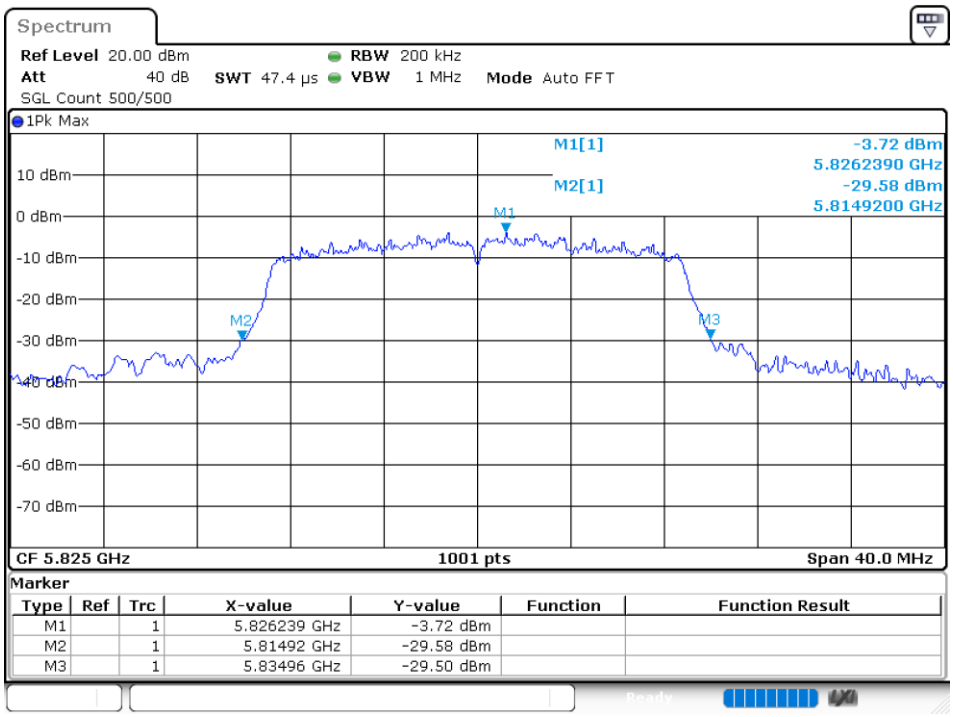
-26 dB BW NVNT 802.11ac20 5785MHz Ant1



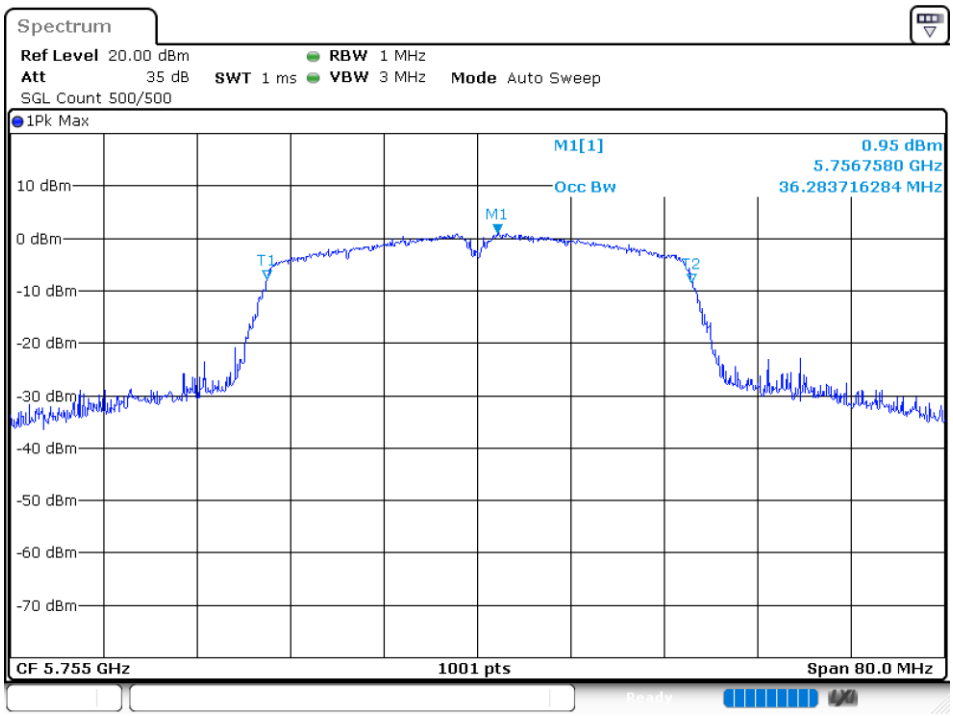
OBW NVNT 802.11ac20 5825MHz Ant1



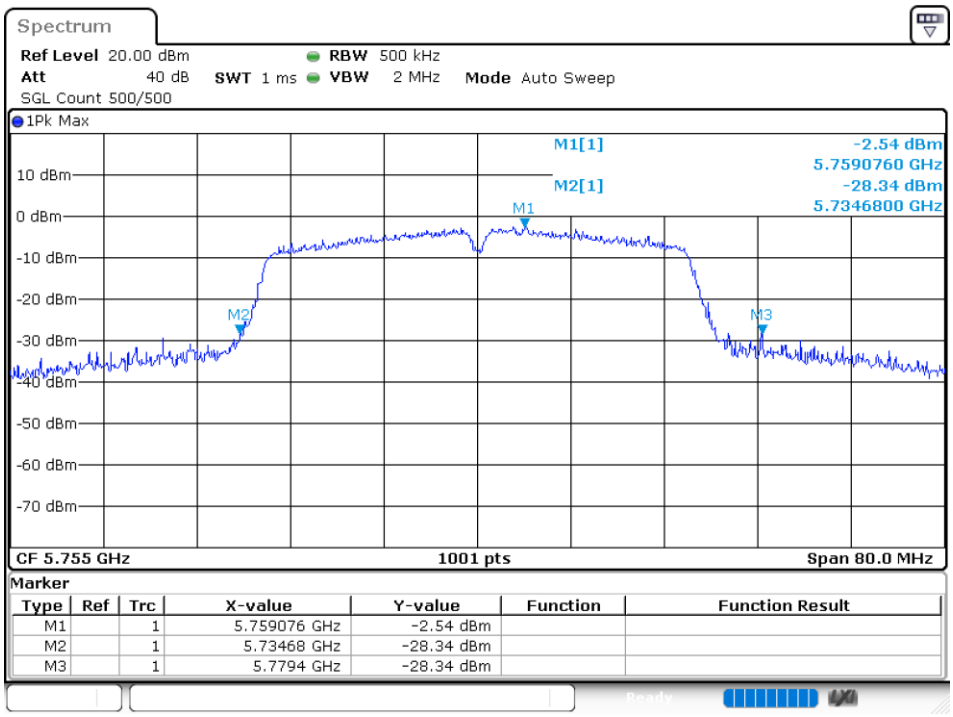
-26 dB BW NVNT 802.11ac20 5825MHz Ant1



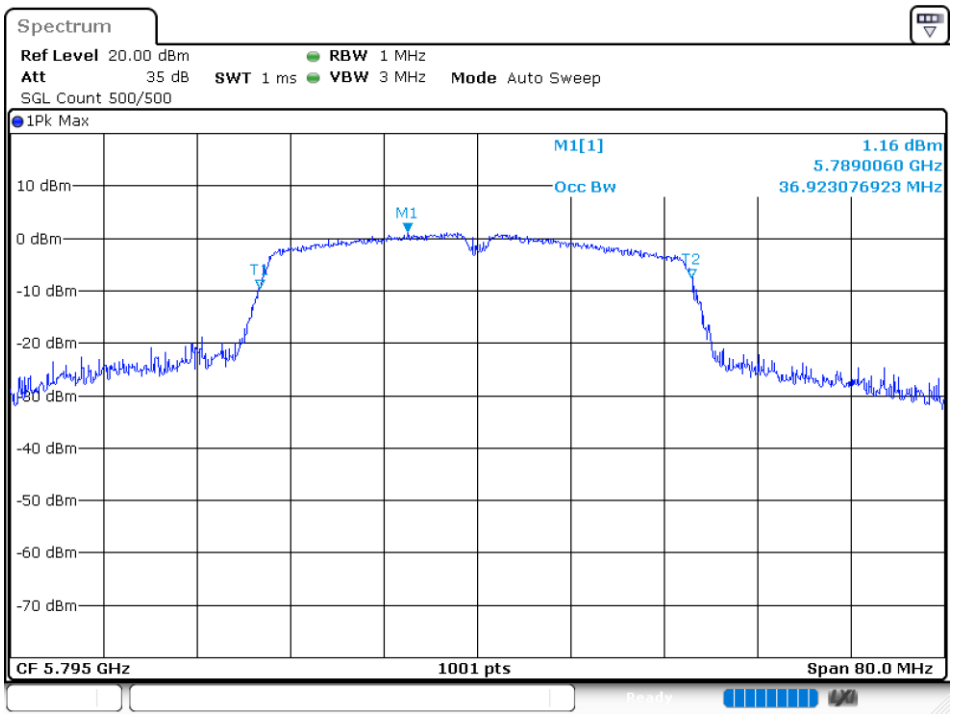
OBW NVNT 802.11ac40 5755MHz Ant1



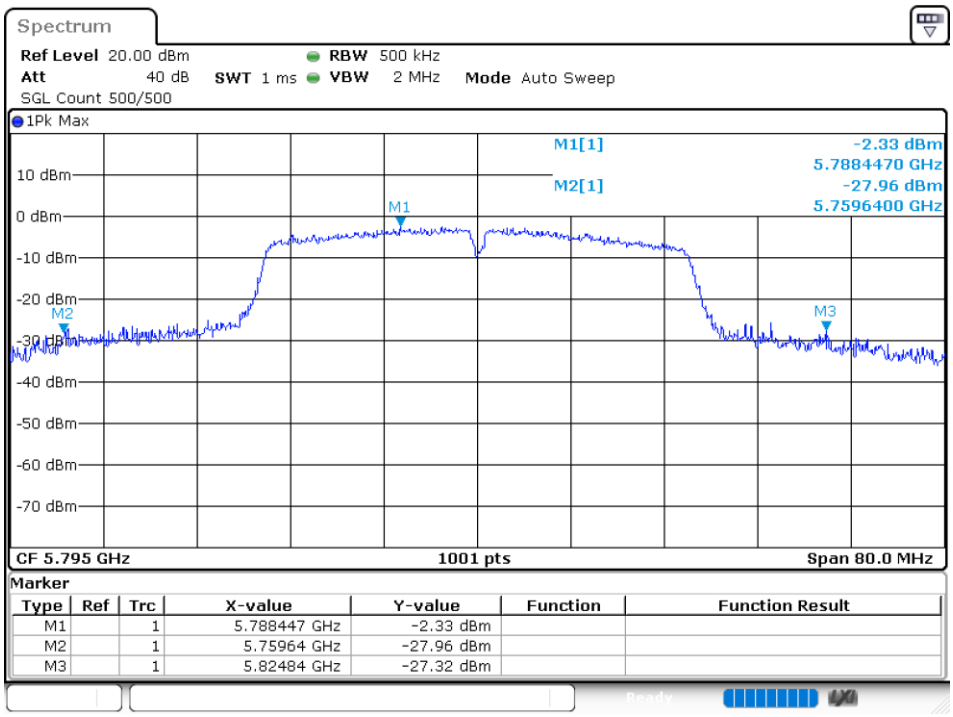
-26 dB BW NVNT 802.11ac40 5755MHz Ant1



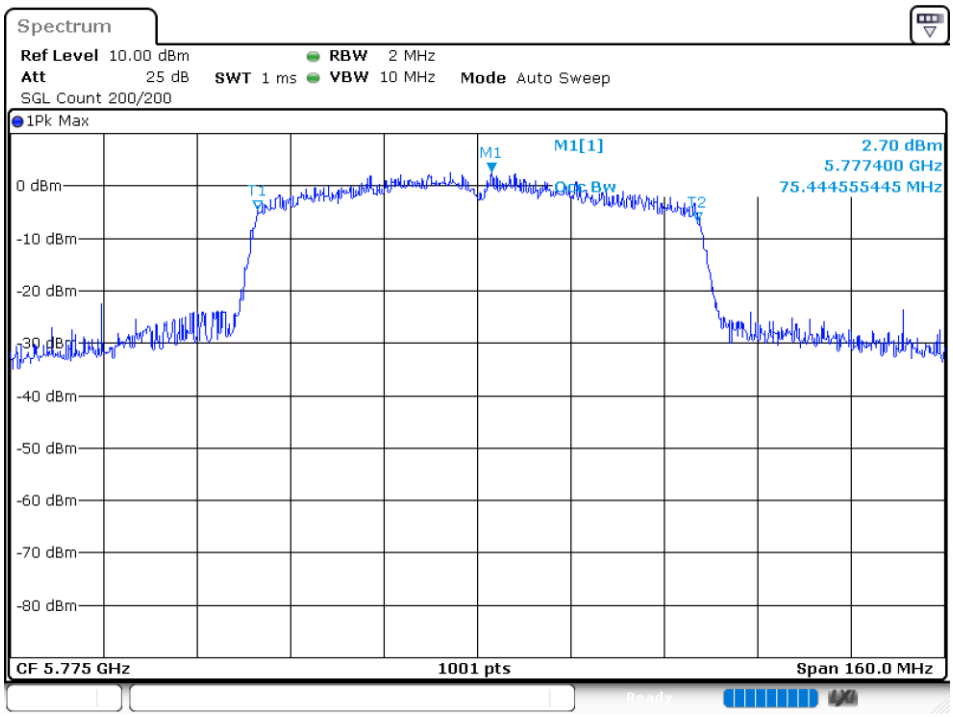
OBW NVNT 802.11ac40 5795MHz Ant1



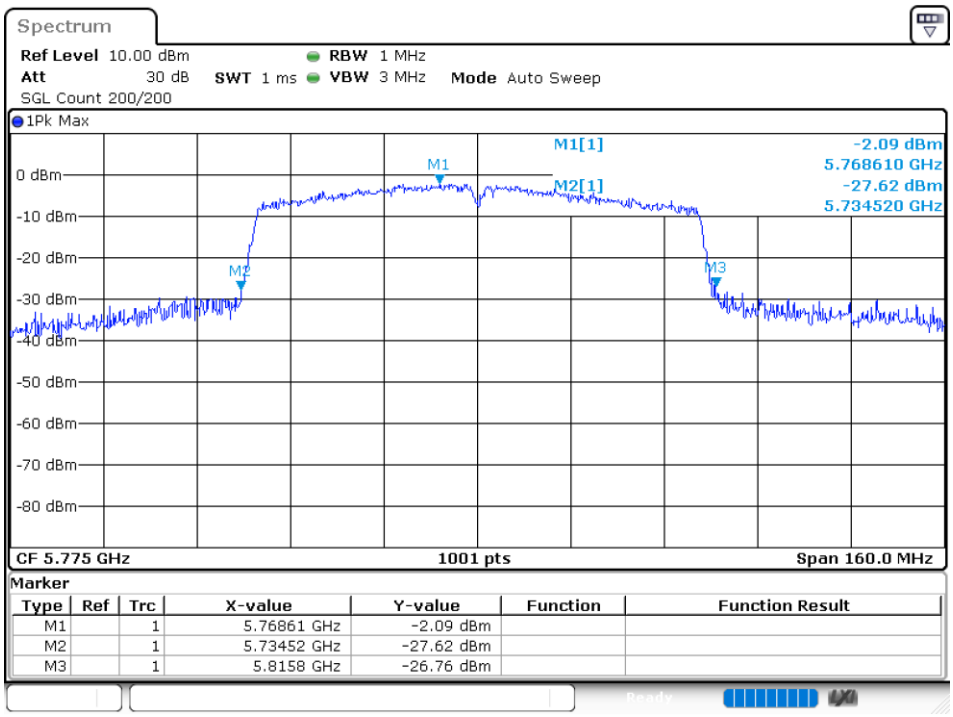
-26 dB BW NVNT 802.11ac40 5795MHz Ant1



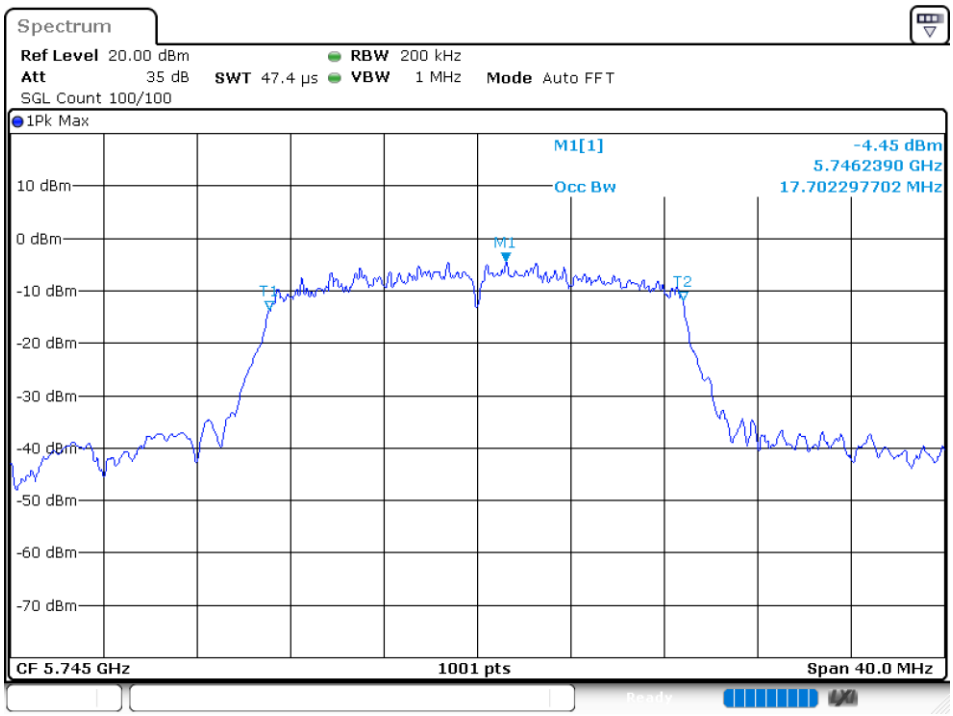
OBW NVNT 802.11ac80 5775MHz Ant1



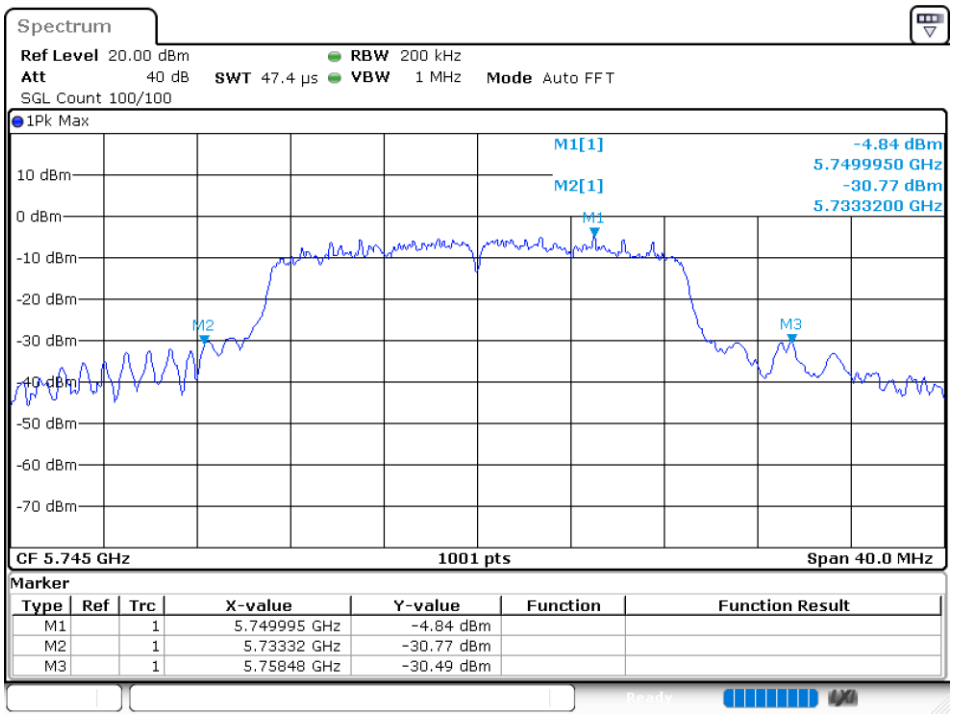
-26 dB BW NVNT 802.11ac80 5775MHz Ant1



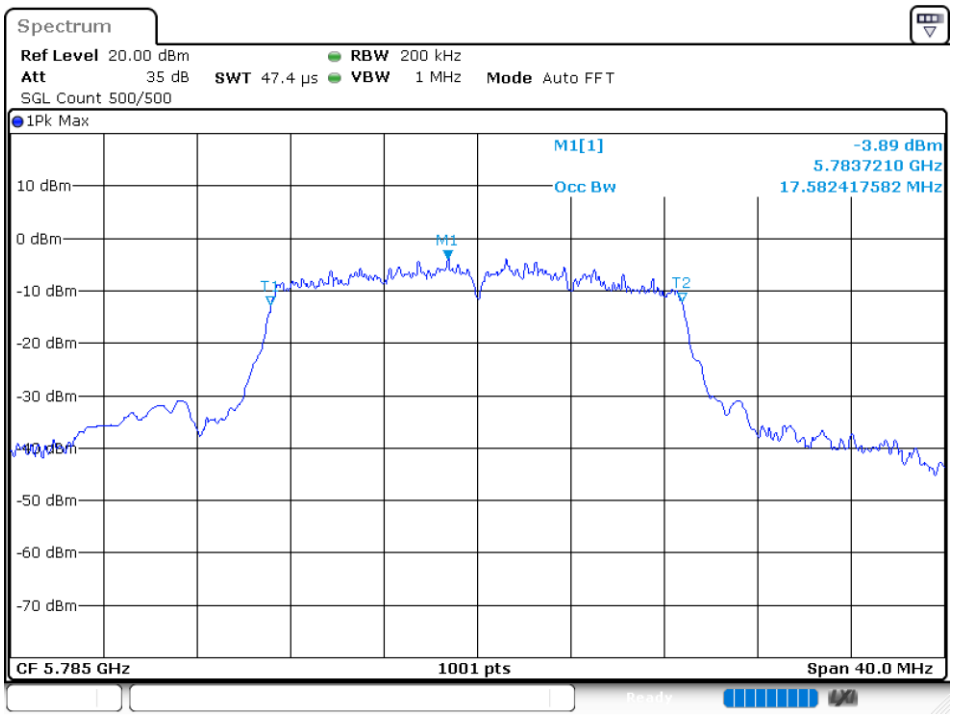
OBW NVNT 802.11n(HT20) 5745MHz Ant1



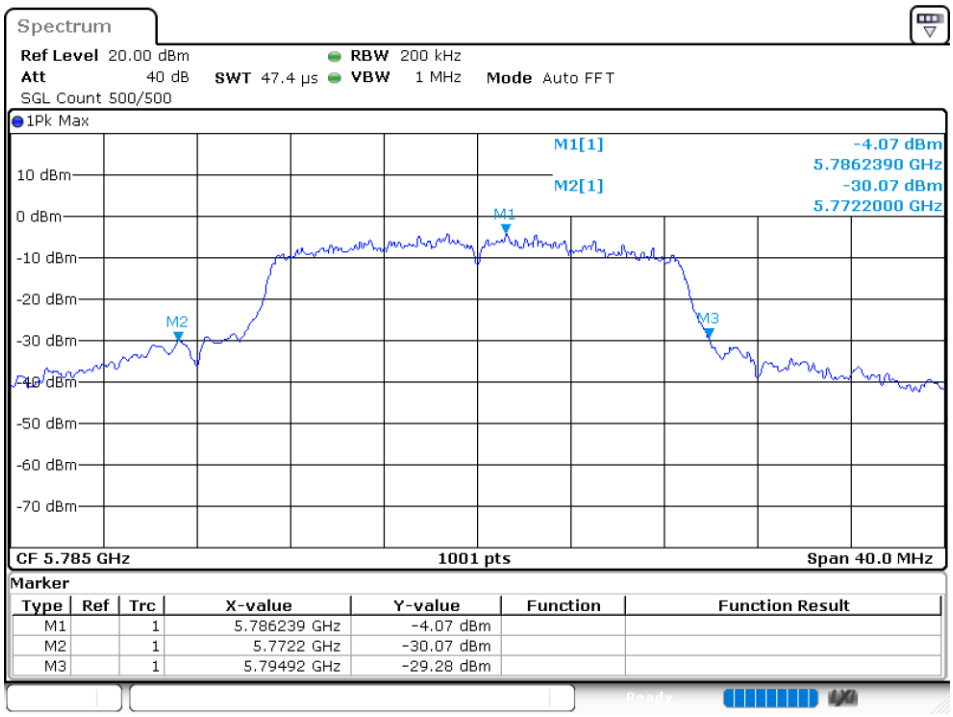
-26 dB BW NVNT 802.11n(HT20) 5745MHz Ant1



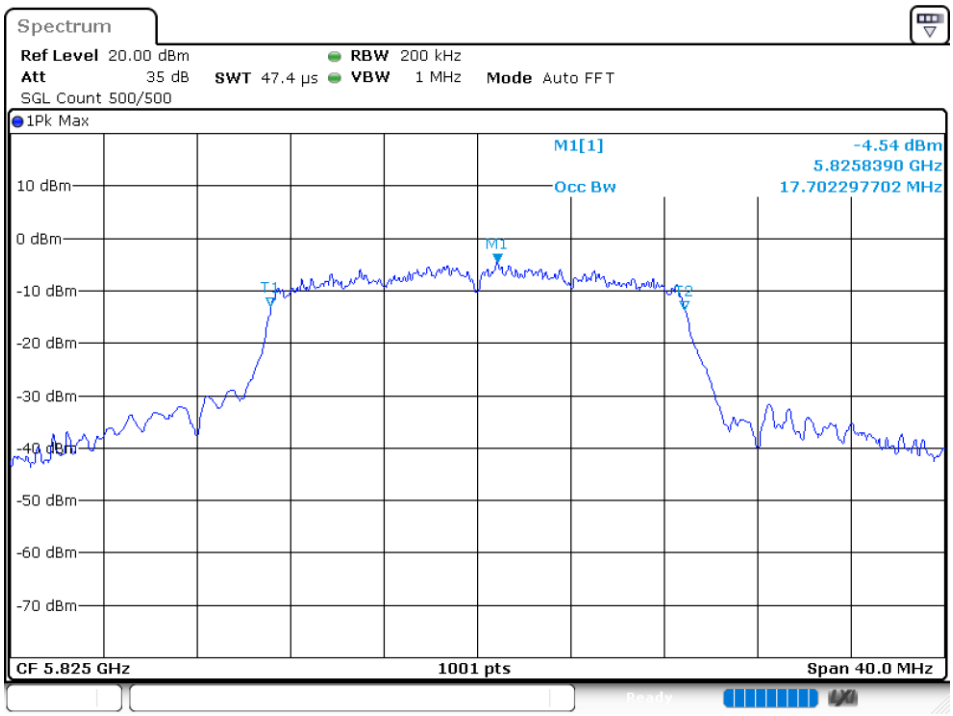
OBW NVNT 802.11n(HT20) 5785MHz Ant1



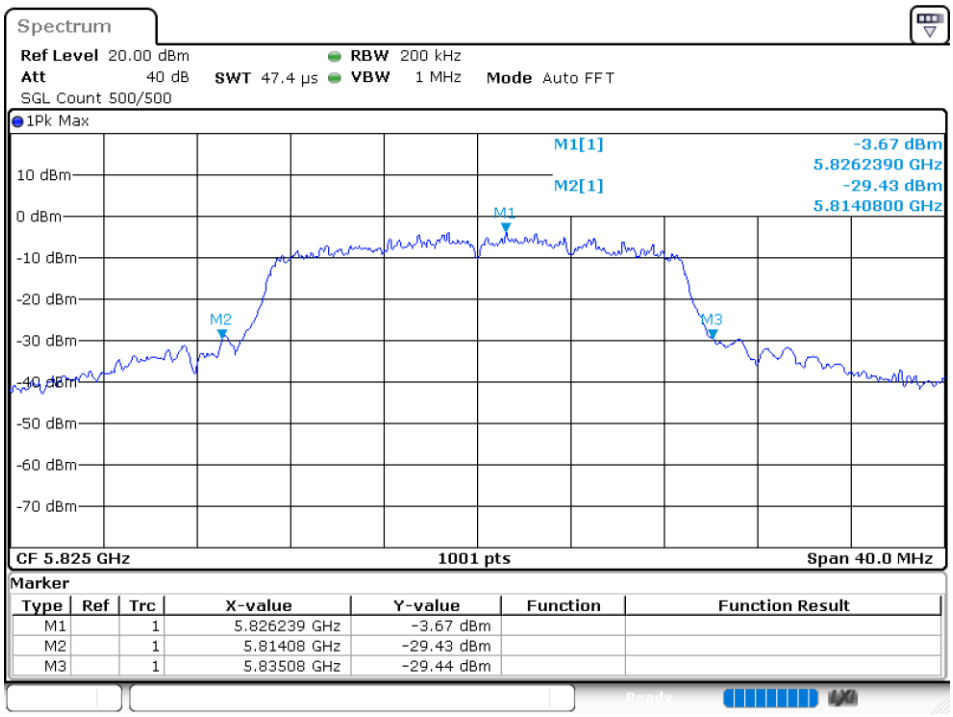
-26 dB BW NVNT 802.11n(HT20) 5785MHz Ant1



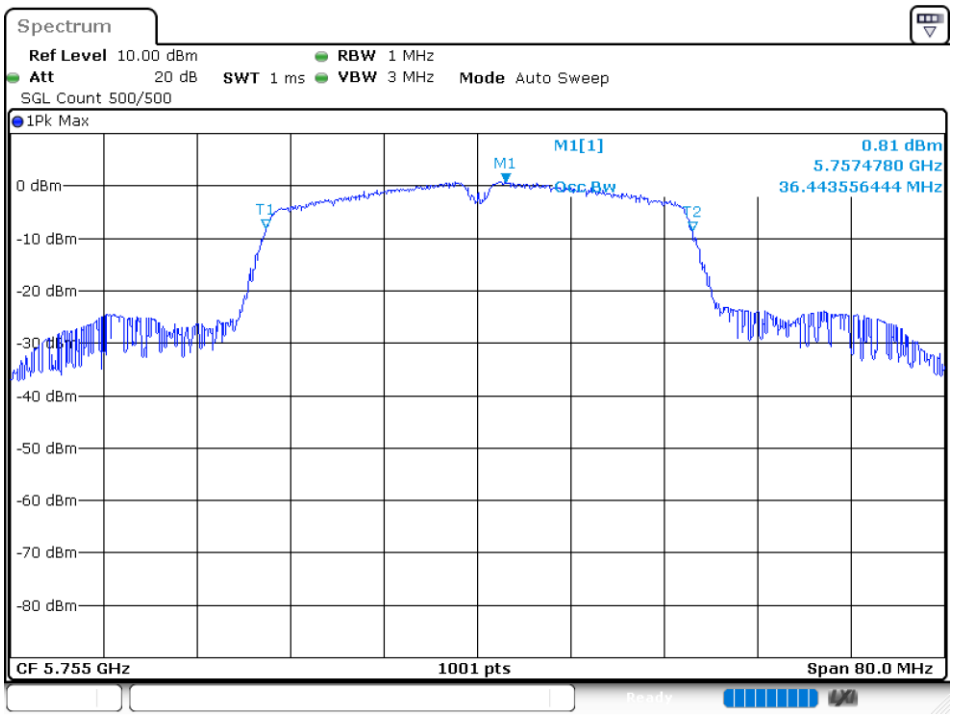
OBW NVNT 802.11n(HT20) 5825MHz Ant1



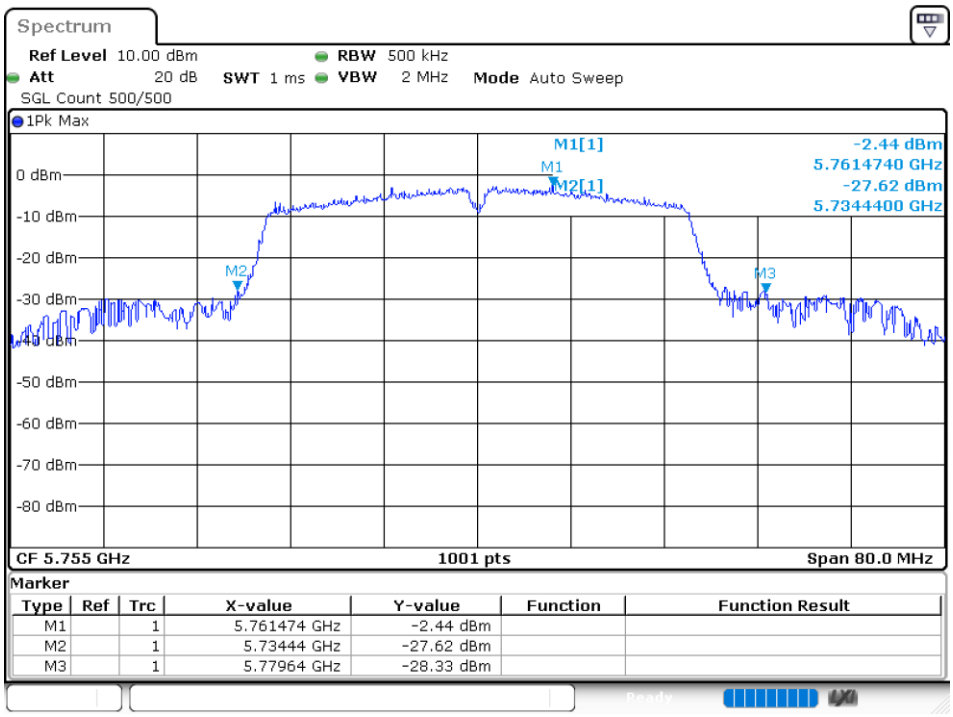
-26 dB BW NVNT 802.11n(HT20) 5825MHz Ant1



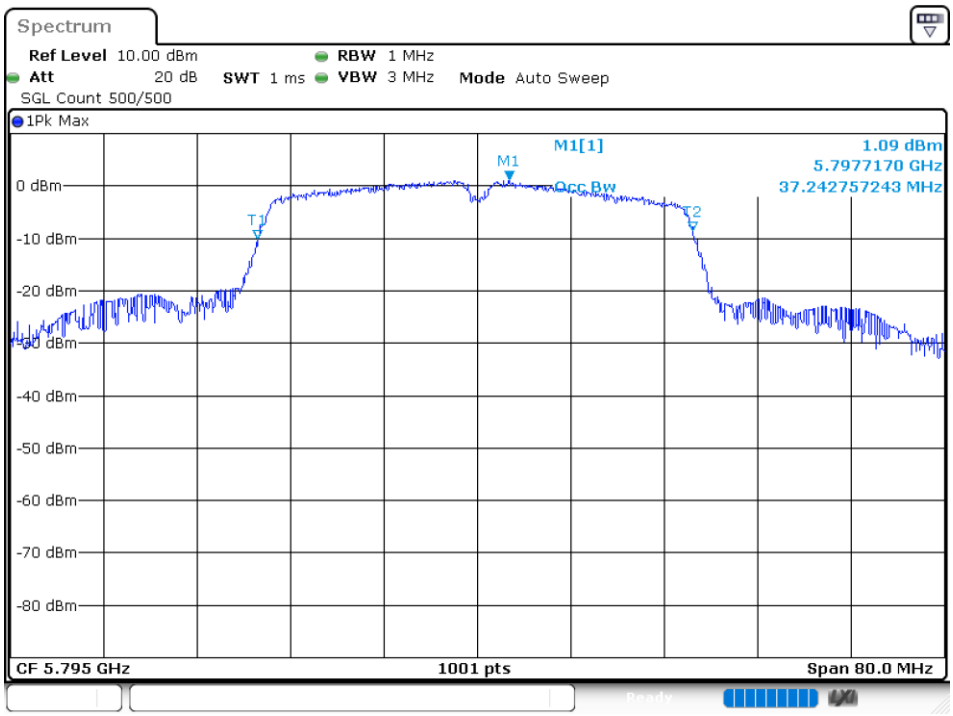
OBW NVNT 802.11n(HT40) 5755MHz Ant1



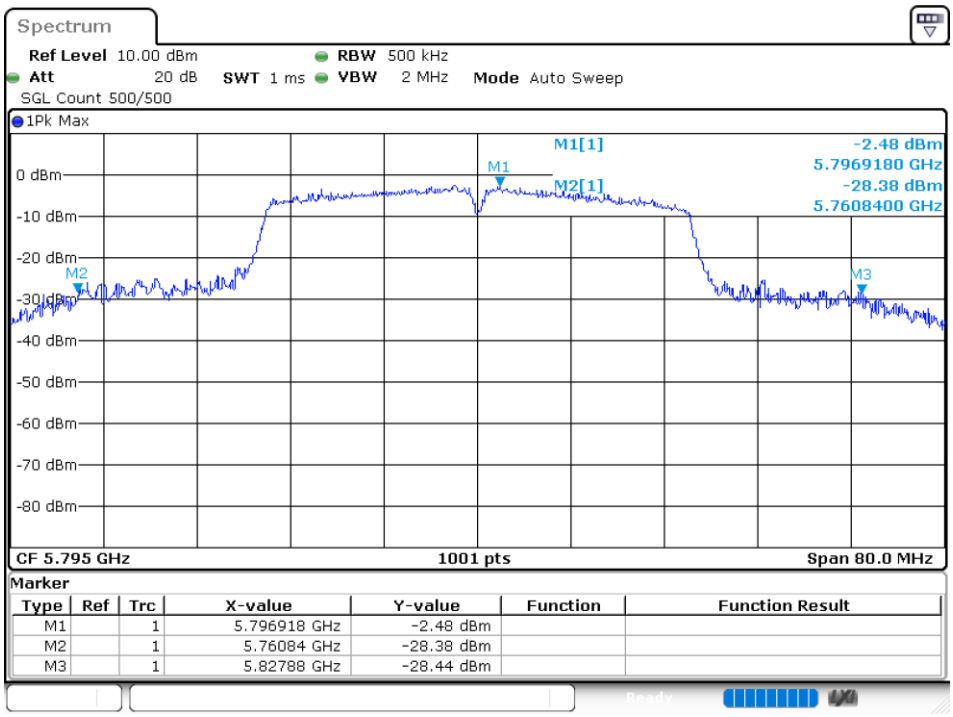
-26 dB BW NVNT 802.11n(HT40) 5755MHz Ant1



OBW NVNT 802.11n(HT40) 5795MHz Ant1



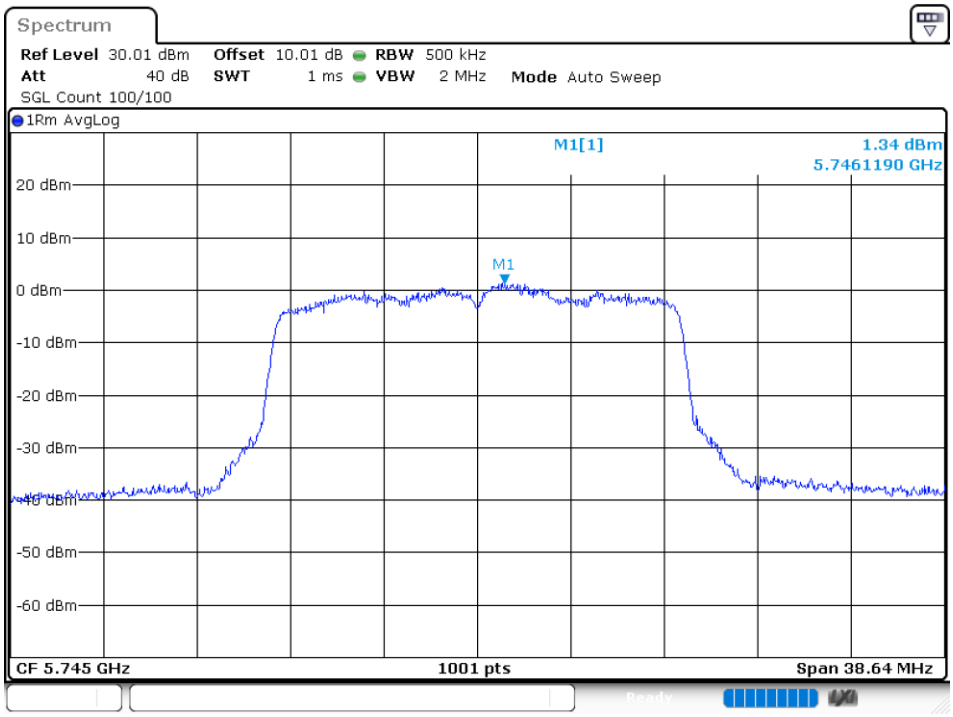
-26 dB BW NVNT 802.11n(HT40) 5795MHz Ant1


Spectrum
Ref Level 10.00 dBm
RBW 500 kHz
Att 20 dB
SWT 1 ms
VBW 2 MHz
Mode Auto Sweep
SGL Count 500/500
1Pk Max
M1[1]
-2.48 dBm
5.7969180 GHz
M2[1]
-28.38 dBm
5.7608400 GHz
M1
M2
M3
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
CF 5.795 GHz
1001 pts
Span 80.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.796918 GHz -2.48 dBm
M2 1 5.76084 GHz -28.38 dBm
M3 1 5.82788 GHz -28.44 dBm

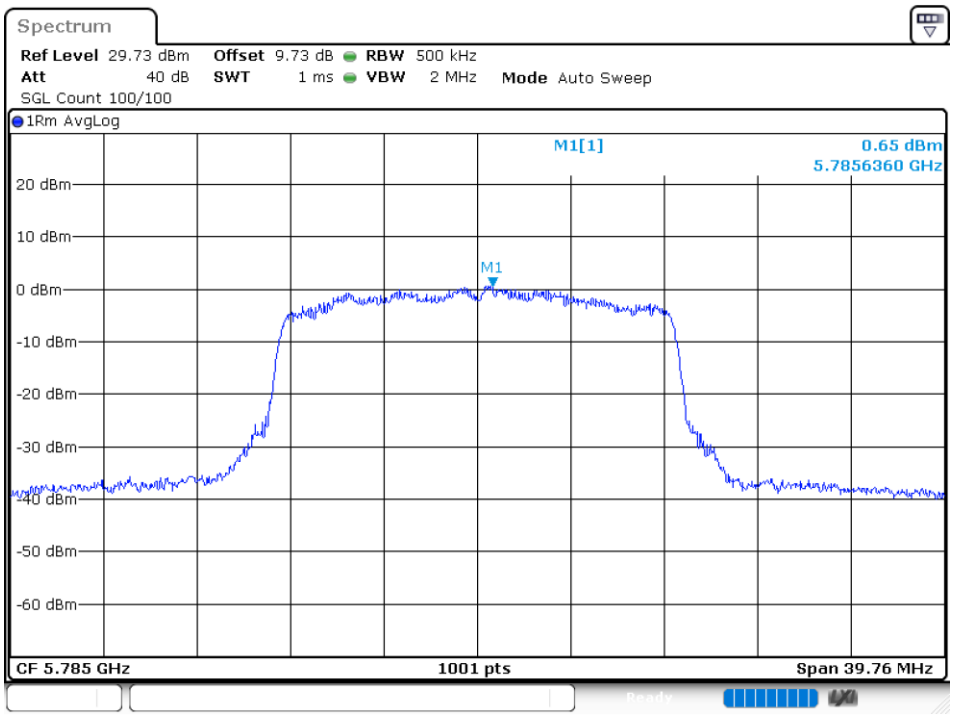
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	Ant 1	1.343	30	Pass
NVNT	802.11a	5785	Ant 1	0.648	30	Pass
NVNT	802.11a	5825	Ant 1	0.559	30	Pass
NVNT	802.11ac20	5745	Ant 1	0.187	30	Pass
NVNT	802.11ac20	5785	Ant 1	-0.298	30	Pass
NVNT	802.11ac20	5825	Ant 1	-0.26	30	Pass
NVNT	802.11ac40	5755	Ant 1	-4.161	30	Pass
NVNT	802.11ac40	5795	Ant 1	-3.855	30	Pass
NVNT	802.11ac80	5775	Ant 1	-9.585	30	Pass
NVNT	802.11n(HT20)	5745	Ant 1	-0.272	30	Pass
NVNT	802.11n(HT20)	5785	Ant 1	-0.707	30	Pass
NVNT	802.11n(HT20)	5825	Ant 1	-0.627	30	Pass
NVNT	802.11n(HT40)	5755	Ant 1	-3.722	30	Pass
NVNT	802.11n(HT40)	5795	Ant 1	-4.75	30	Pass

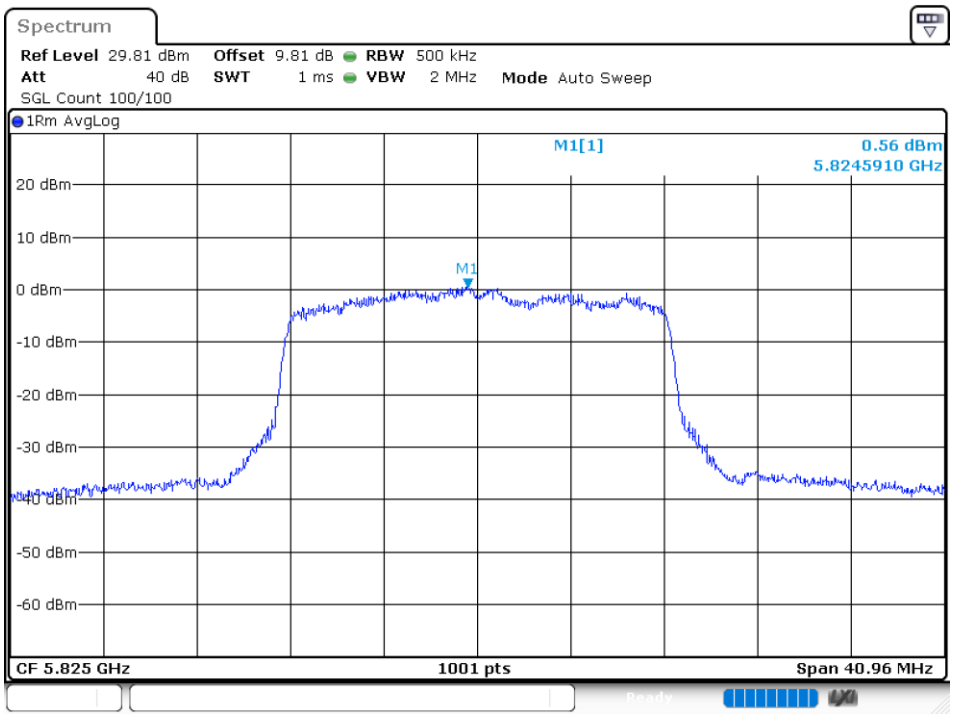
PSD NVNT 802.11a 5745MHz Ant1



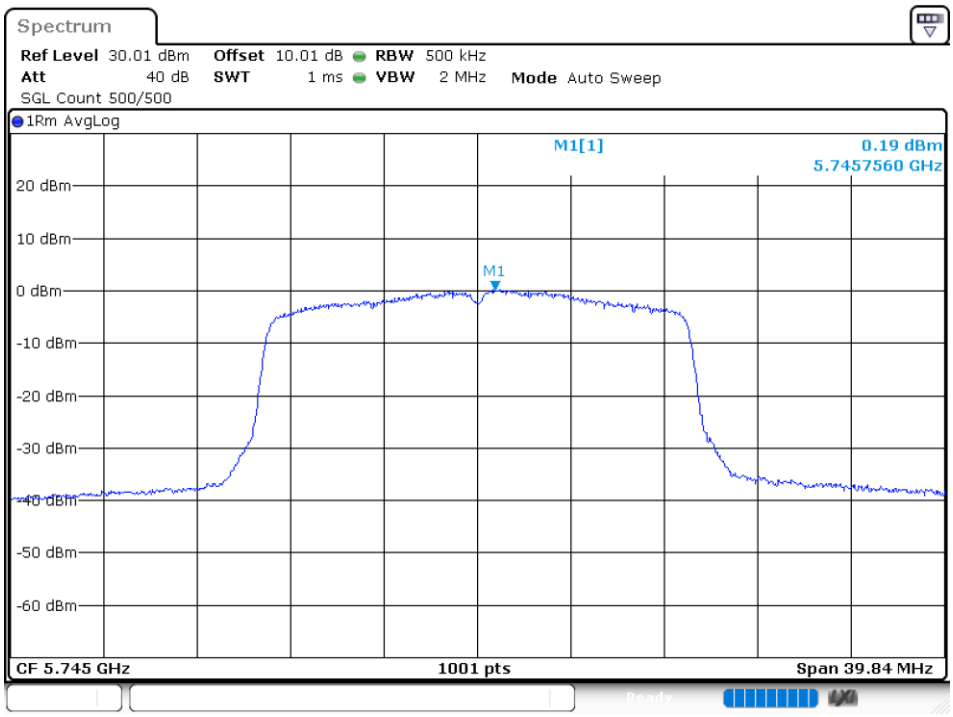
PSD NVNT 802.11a 5785MHz Ant1



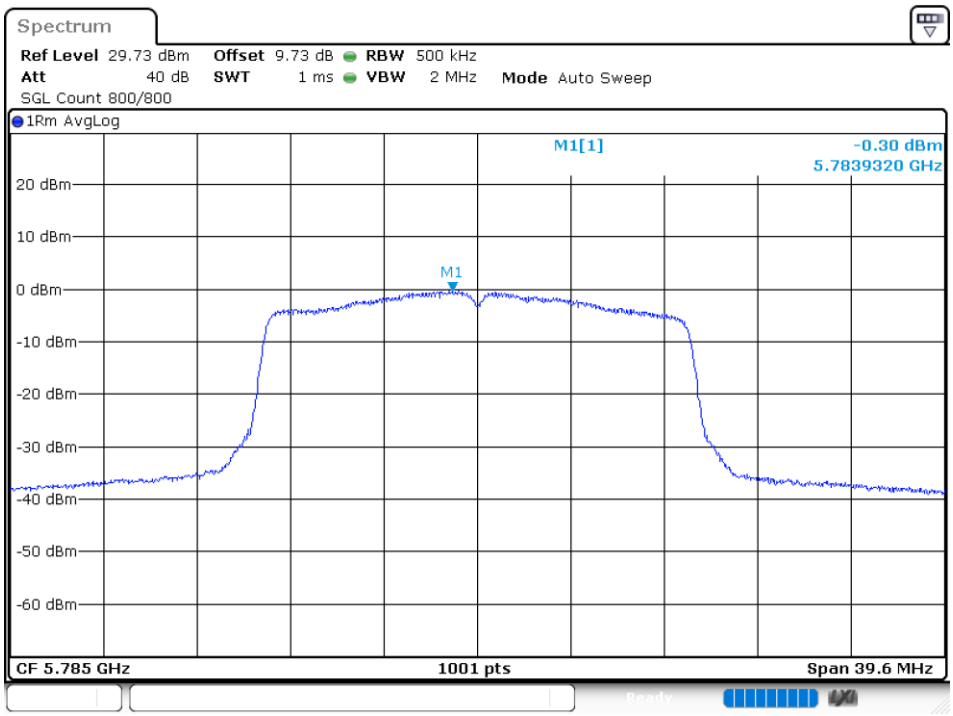
PSD NVNT 802.11a 5825MHz Ant1



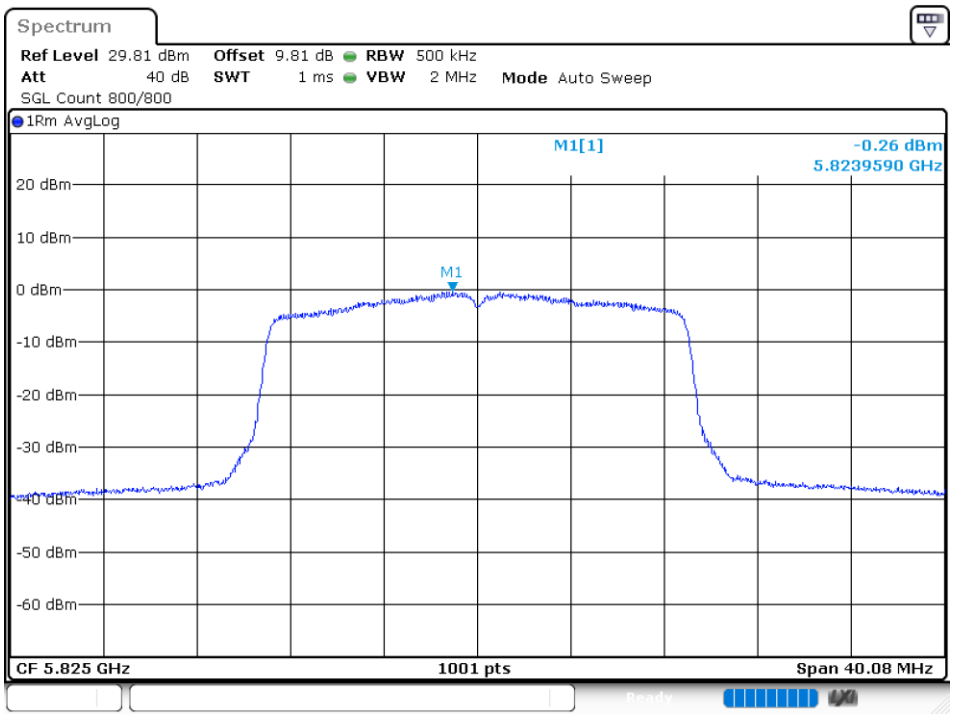
PSD NVNT 802.11ac20 5745MHz Ant1



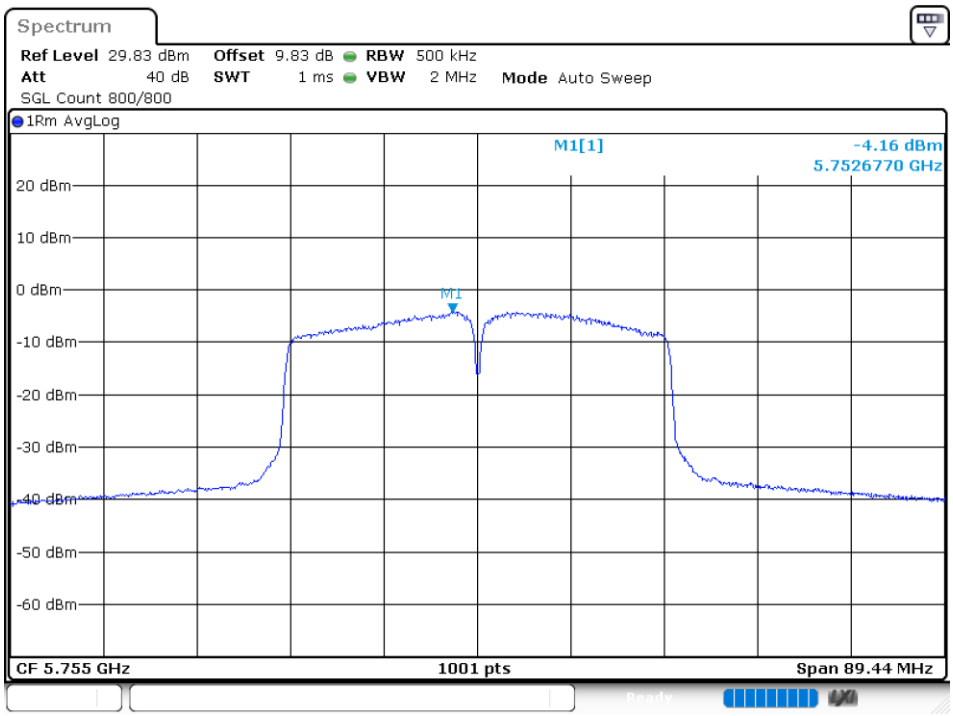
PSD NVNT 802.11ac20 5785MHz Ant1



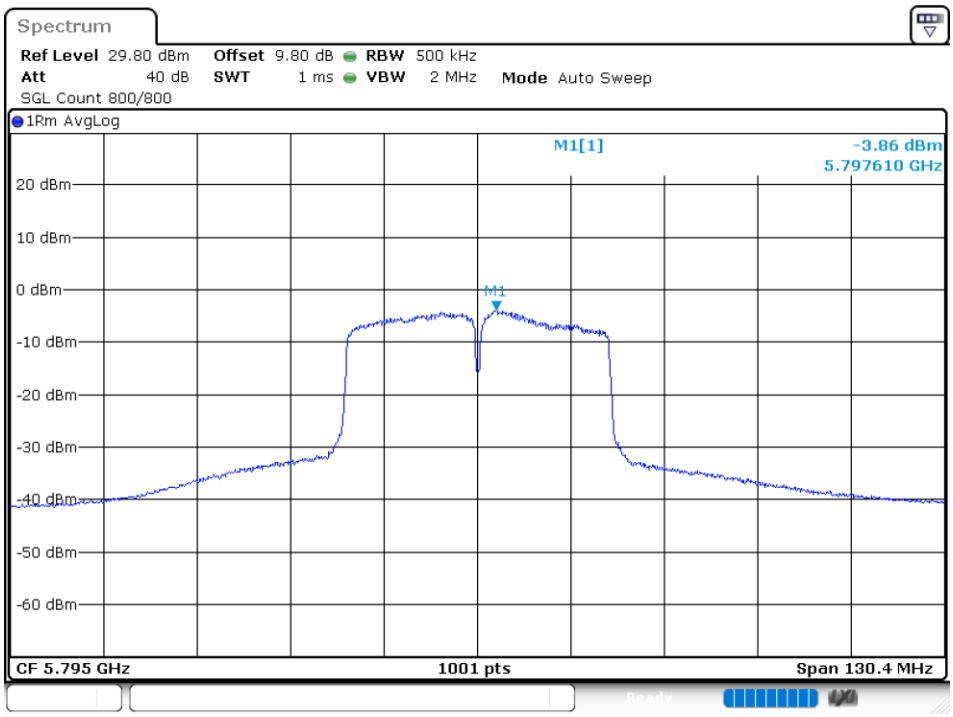
PSD NVNT 802.11ac20 5825MHz Ant1



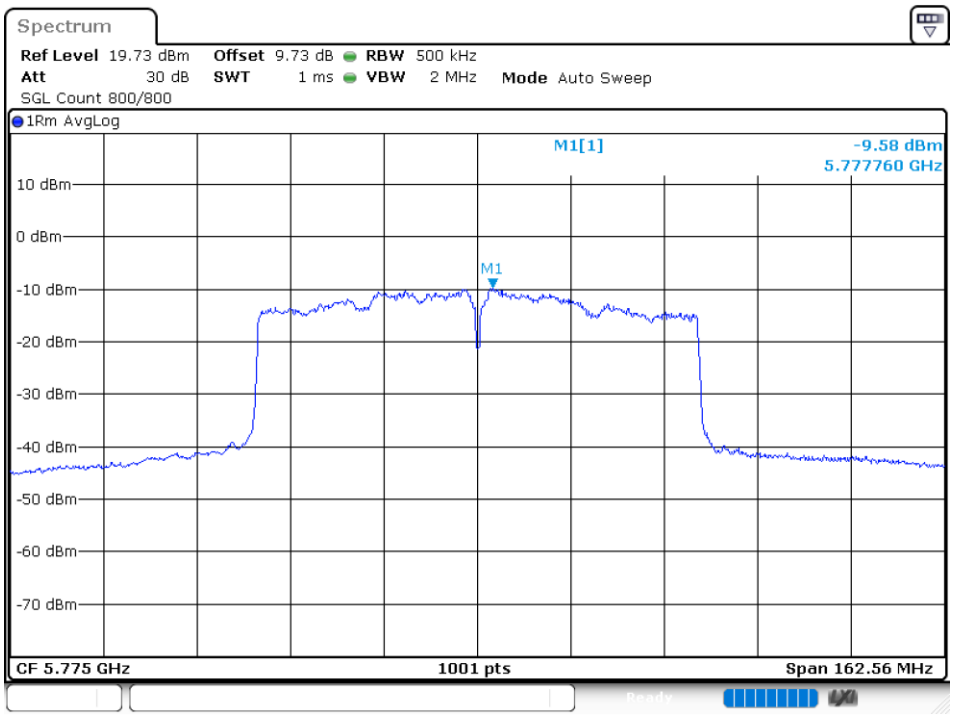
PSD NVNT 802.11ac40 5755MHz Ant1



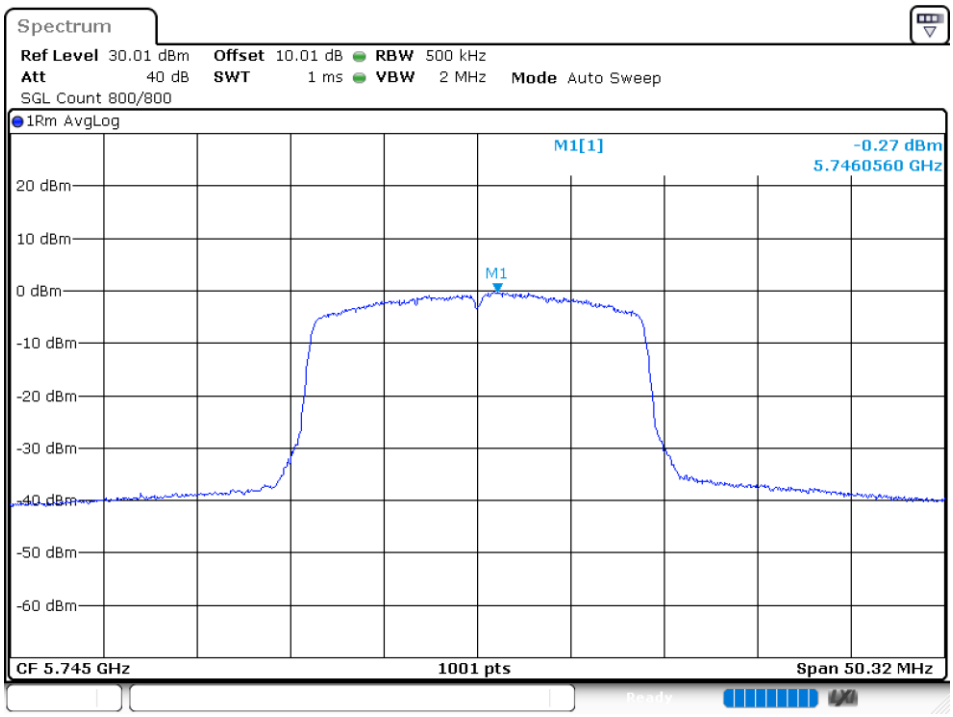
PSD NVNT 802.11ac40 5795MHz Ant1



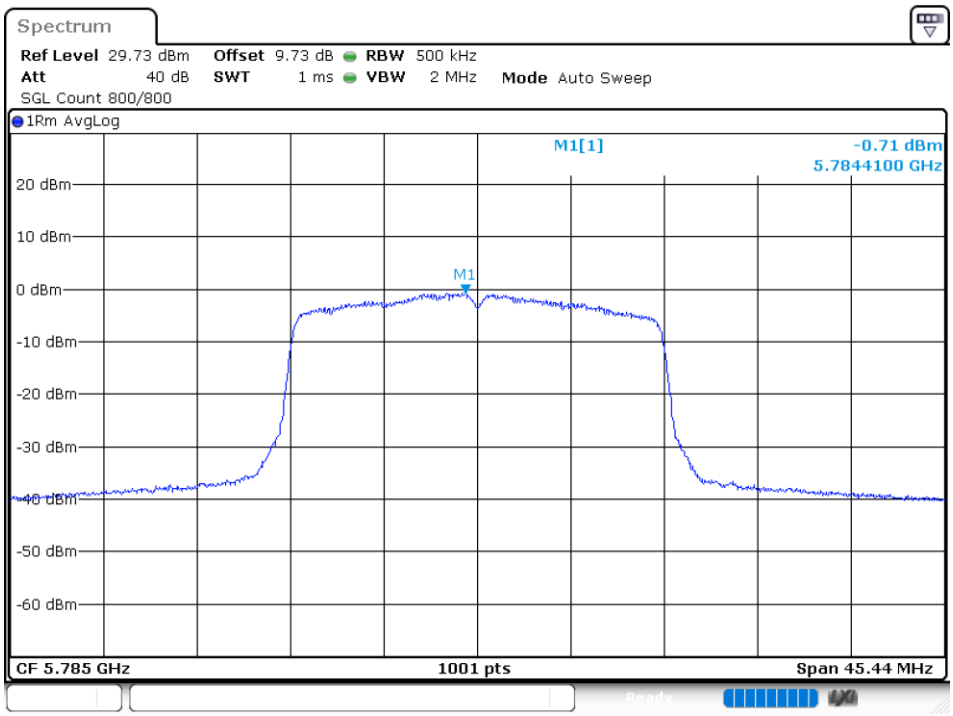
PSD NVNT 802.11ac80 5775MHz Ant1



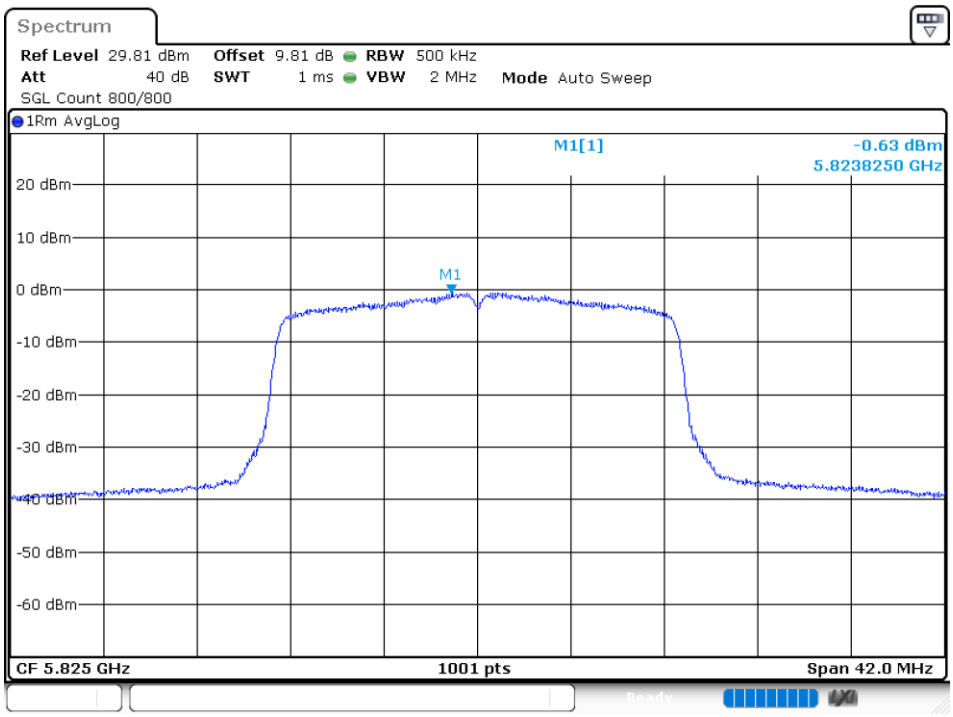
PSD NVNT 802.11n(HT20) 5745MHz Ant1



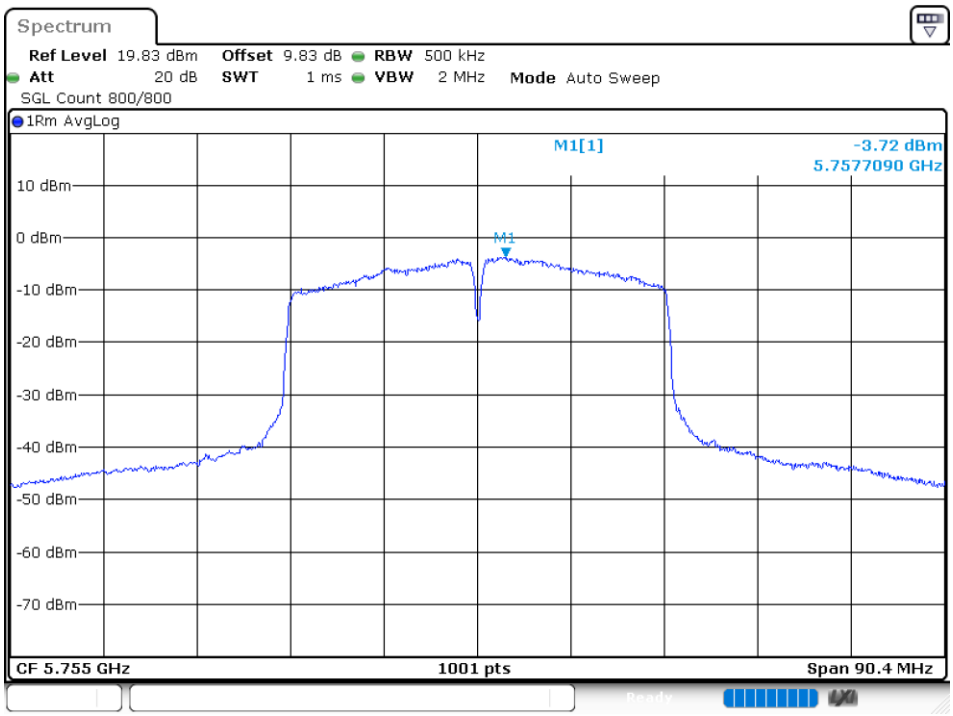
PSD NVNT 802.11n(HT20) 5785MHz Ant1



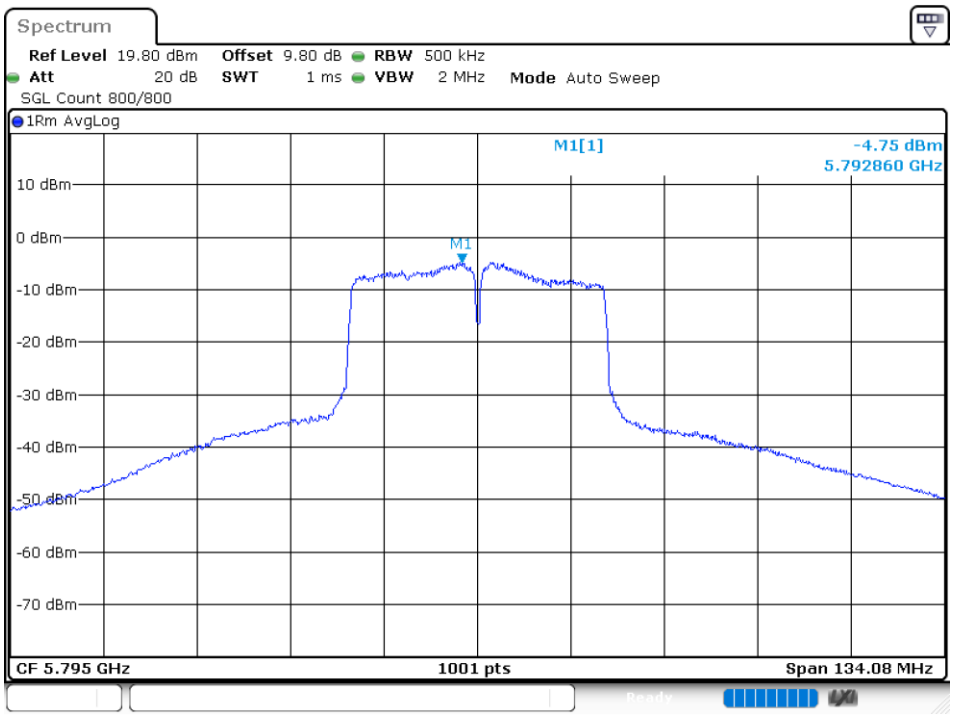
PSD NVNT 802.11n(HT20) 5825MHz Ant1



PSD NVNT 802.11n(HT40) 5755MHz Ant1



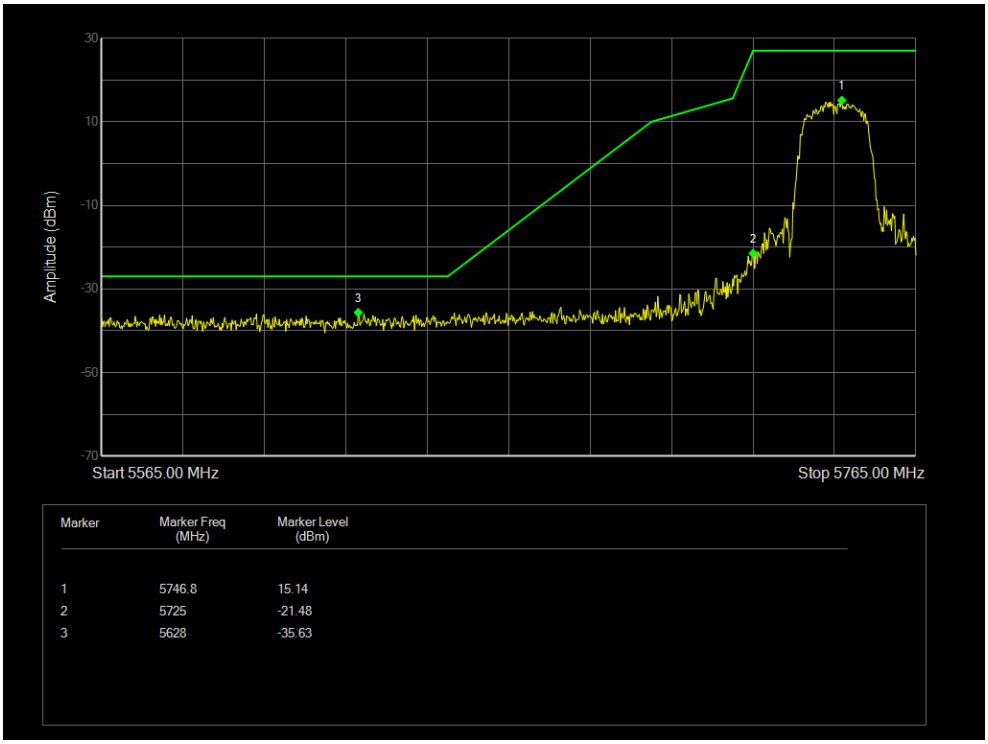
PSD NVNT 802.11n(HT40) 5795MHz Ant1


Spectrum
Ref Level 19.80 dBm Offset 9.80 dB RBW 500 kHz
Att 20 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 800/800
1Rm AvgLog
M1[1] -4.75 dBm
5.792860 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
CF 5.795 GHz
1001 pts
Span 134.08 MHz

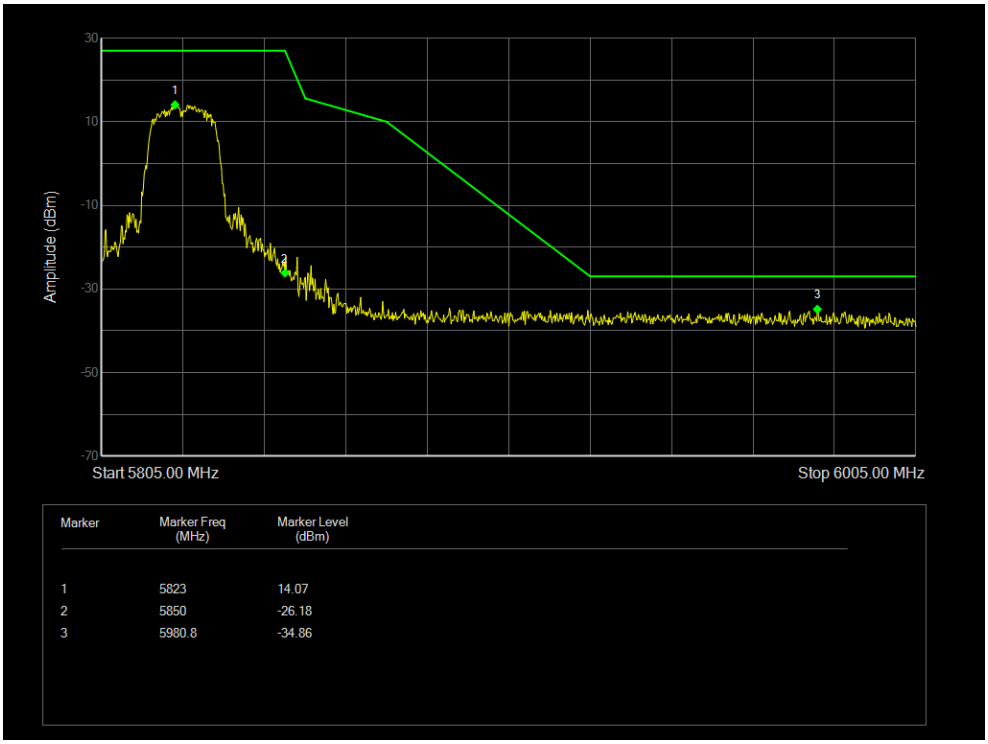
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	Ant 1	-35.63	-27	Pass
NVNT	802.11a	5825	Ant 1	-34.86	-27	Pass
NVNT	802.11ac20	5745	Ant 1	-35.37	-27	Pass
NVNT	802.11ac20	5825	Ant 1	-34.27	-27	Pass
NVNT	802.11ac40	5755	Ant 1	-36.17	-27	Pass
NVNT	802.11ac40	5795	Ant 1	-34.22	-27	Pass
NVNT	802.11ac80	5775	Ant 1	-32.09	-4.06	Pass
NVNT	802.11ac80	5775	Ant 1	-32	-21.08	Pass
NVNT	802.11n(HT20)	5745	Ant 1	-35	-27	Pass
NVNT	802.11n(HT20)	5825	Ant 1	-35	-27	Pass
NVNT	802.11n(HT40)	5755	Ant 1	-35.03	-27	Pass
NVNT	802.11n(HT40)	5795	Ant 1	-35.37	-27	Pass

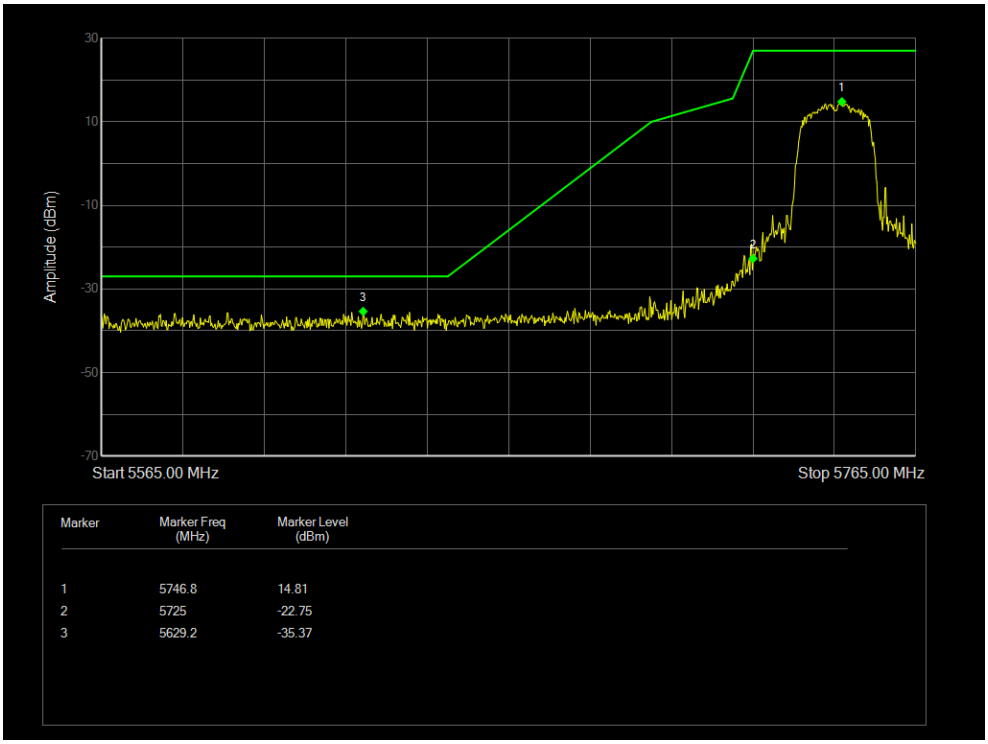
Band Edge NVNT 802.11a 5745MHz Low Ant1



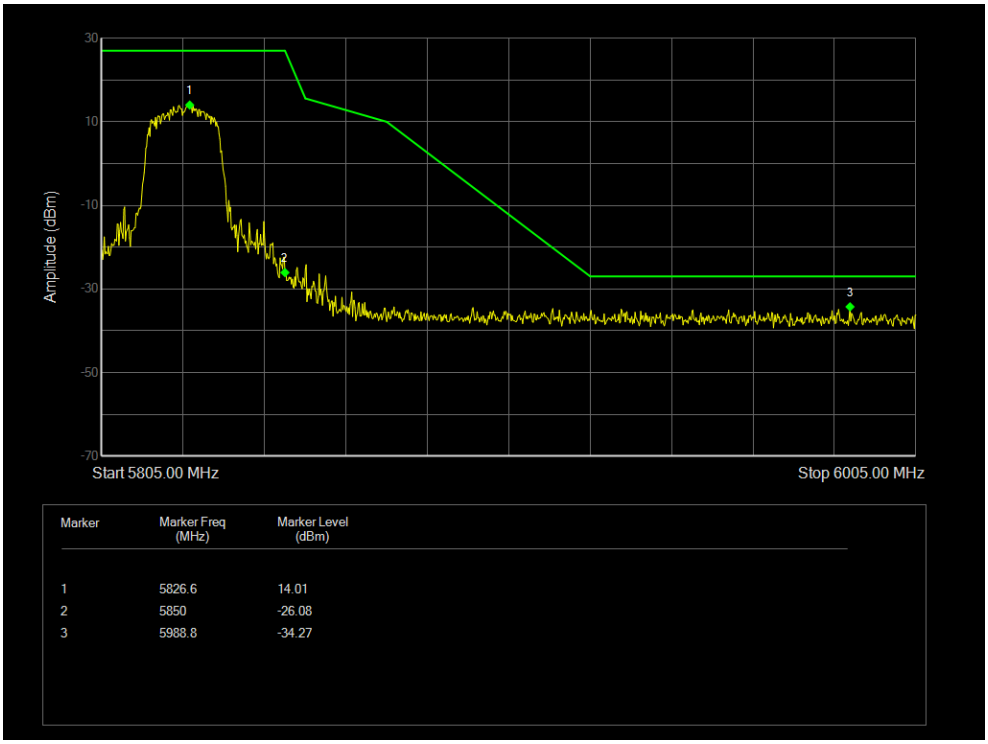
Band Edge NVNT 802.11a 5825MHz High Ant1



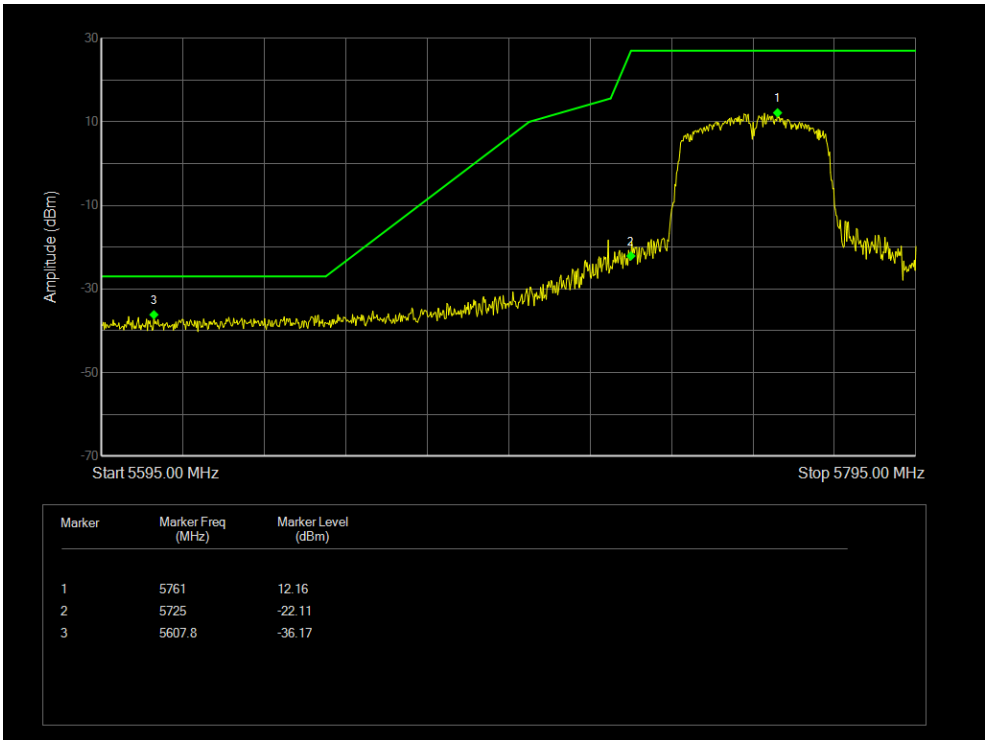
Band Edge NVNT 802.11ac20 5745MHz Low Ant1



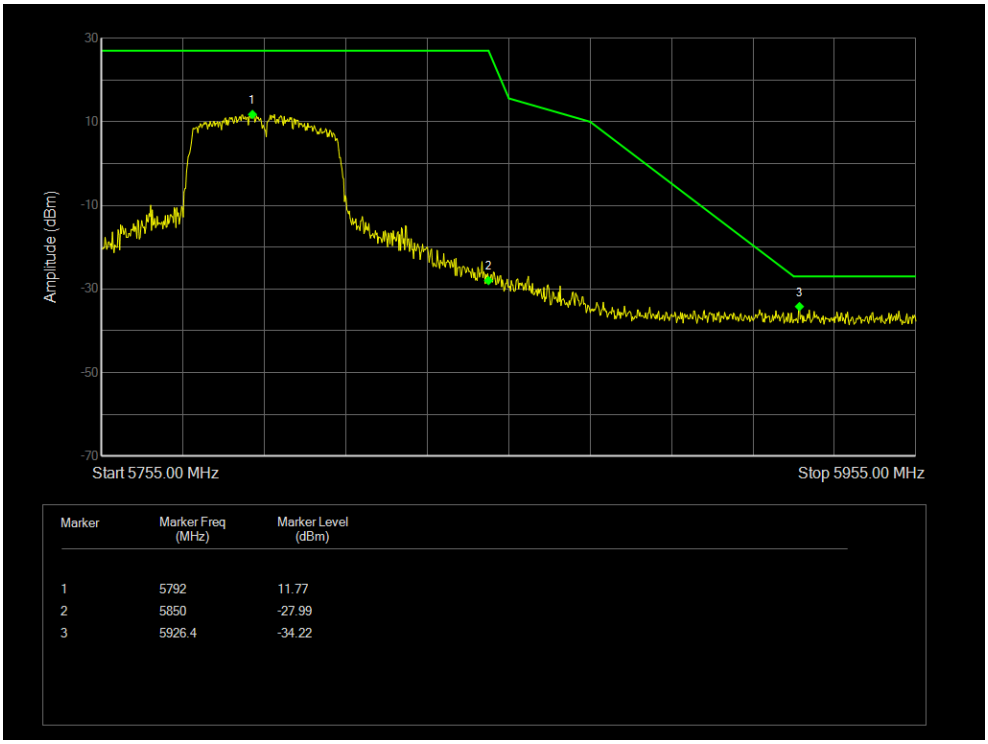
Band Edge NVNT 802.11ac20 5825MHz High Ant1



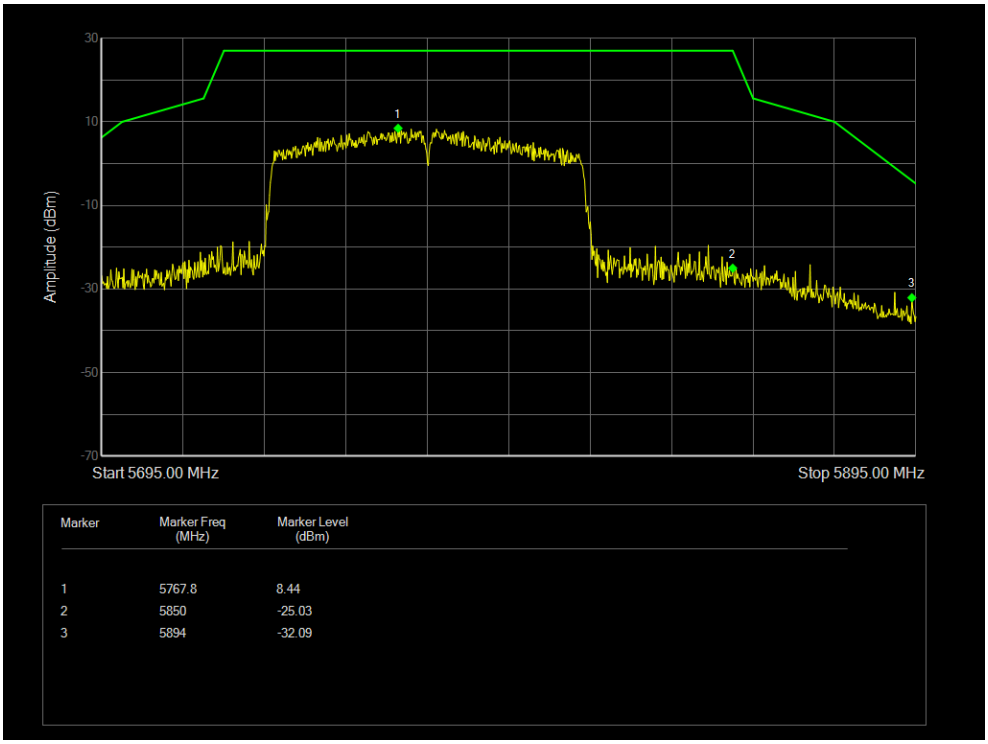
Band Edge NVNT 802.11ac40 5755MHz Low Ant1



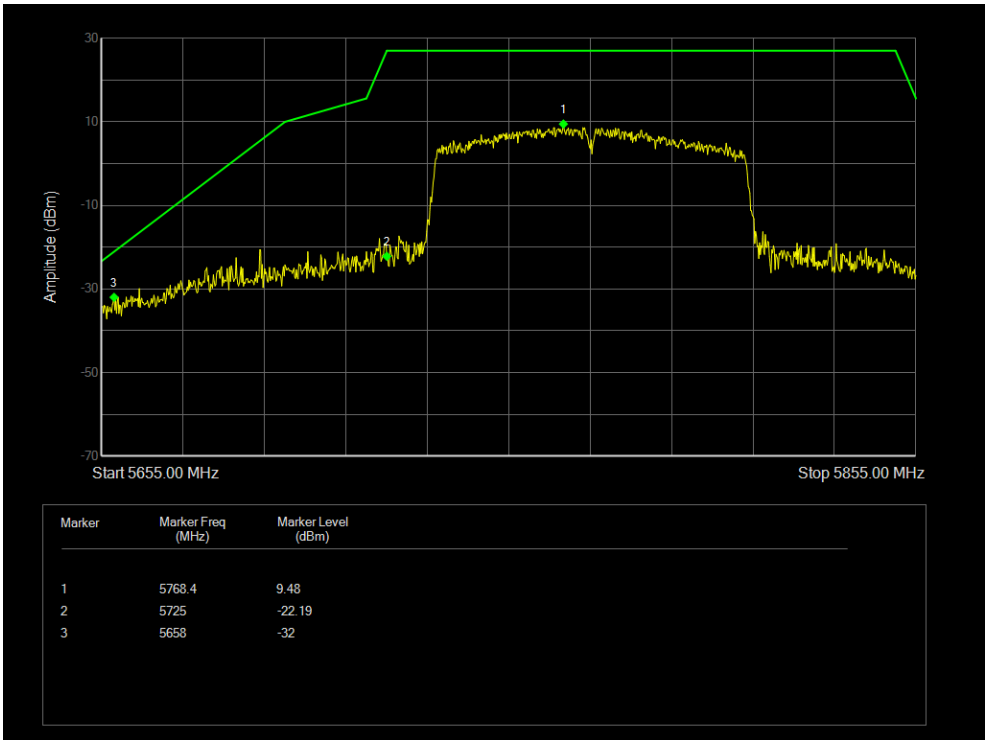
Band Edge NVNT 802.11ac40 5795MHz High Ant1



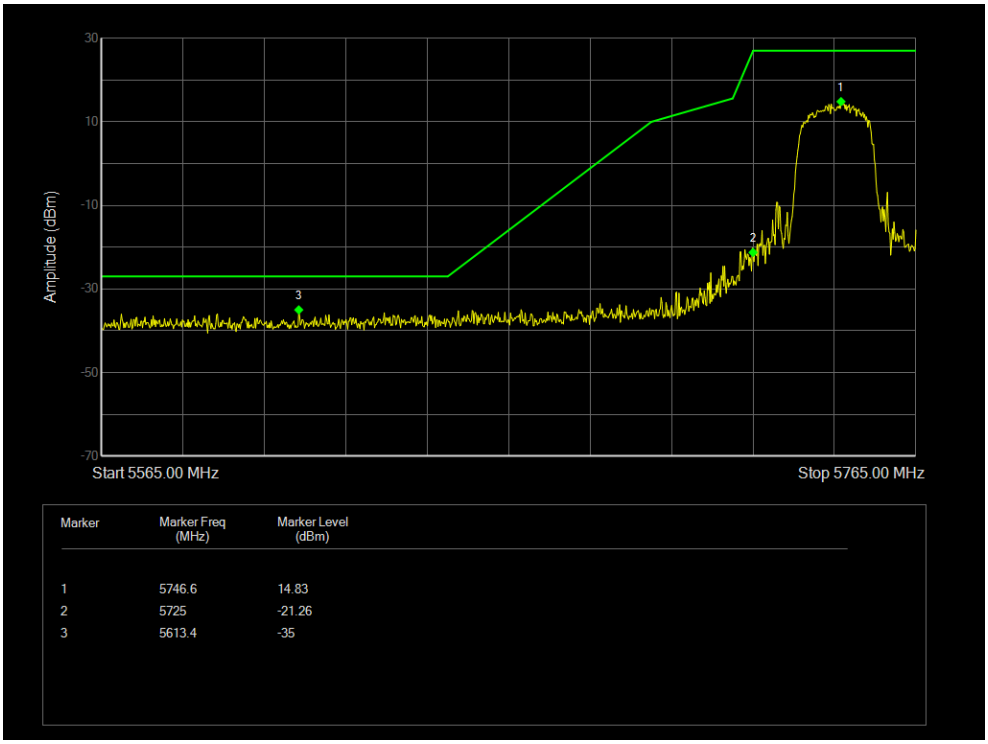
Band Edge NVNT 802.11ac80 5775MHz High Ant1



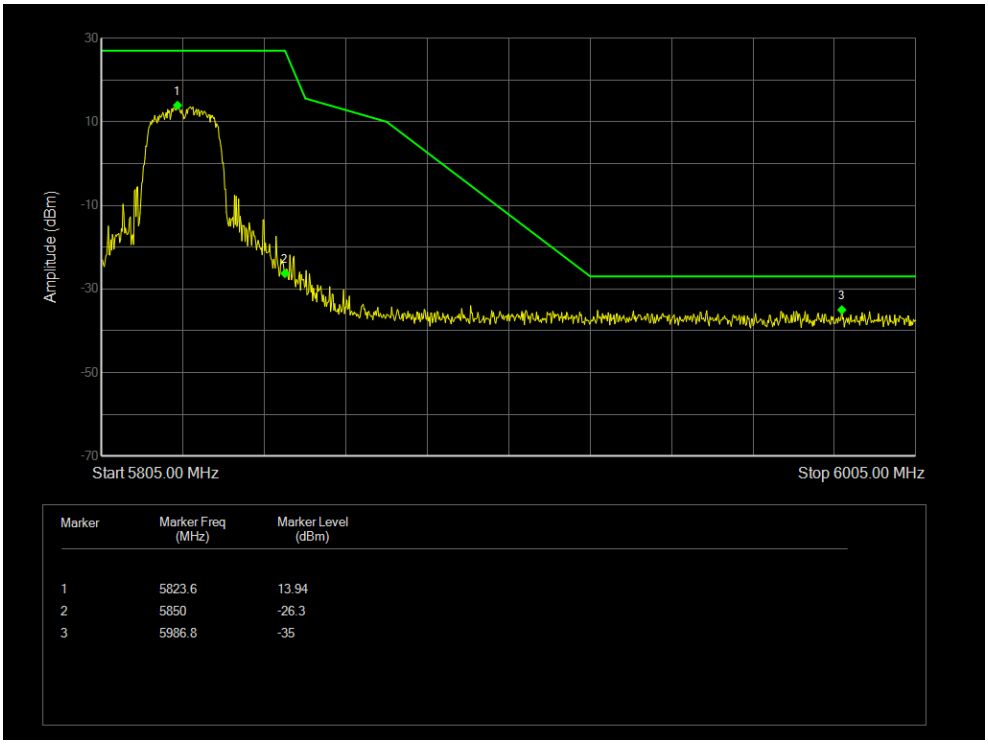
Band Edge NVNT 802.11ac80 5775MHz Low Ant1



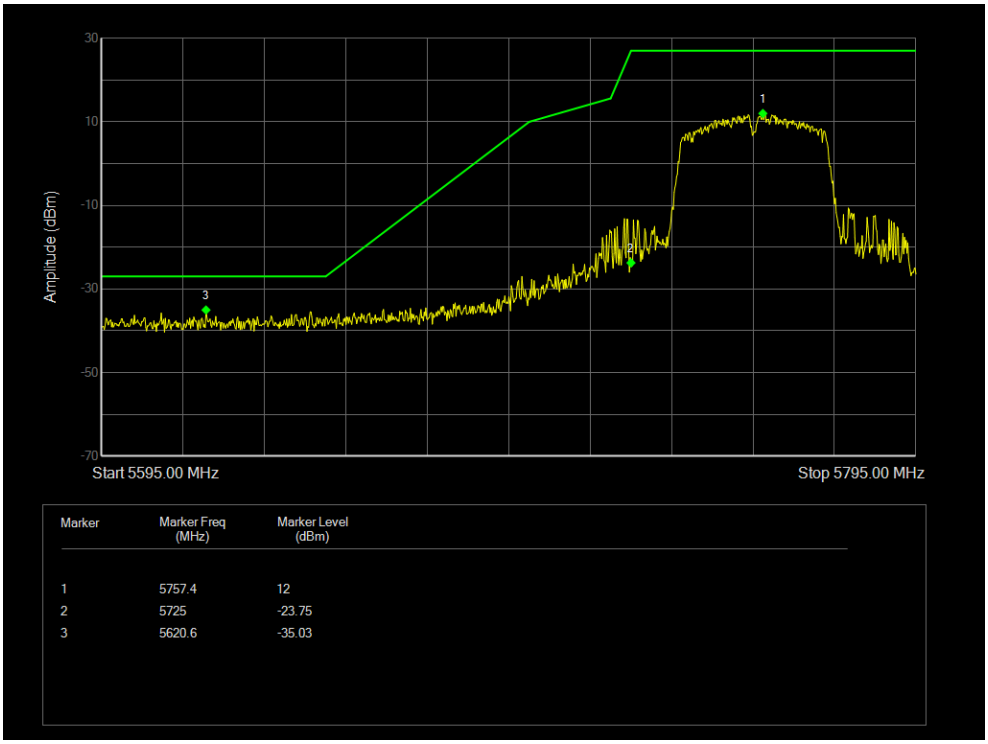
Band Edge NVNT 802.11n(HT20) 5745MHz Low Ant1



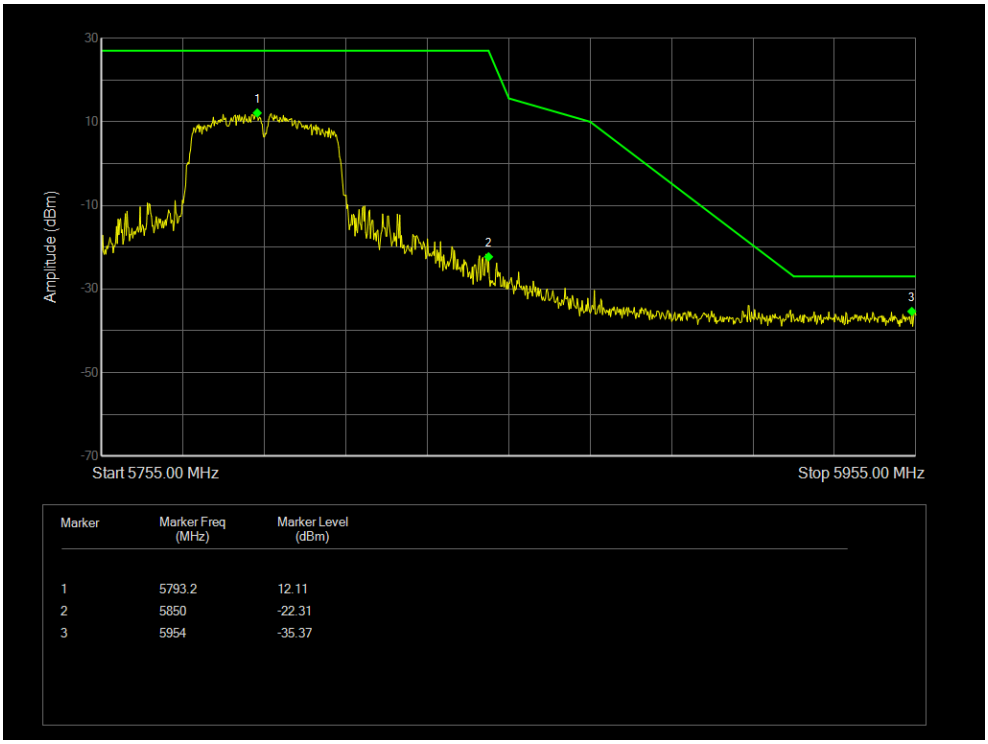
Band Edge NVNT 802.11n(HT20) 5825MHz High Ant1



Band Edge NVNT 802.11n(HT40) 5755MHz Low Ant1



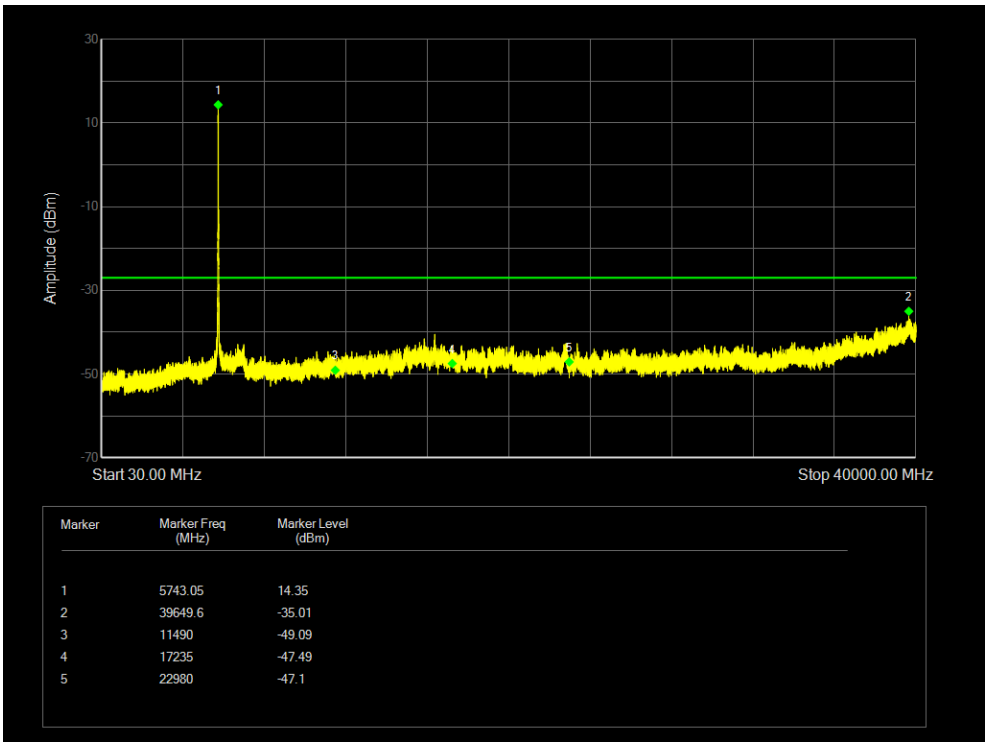
Band Edge NVNT 802.11n(HT40) 5795MHz High Ant1


30
10
-10
-30
-50
-70
Amplitude (dBm)
1
2
3
Start 5755.00 MHz
Stop 5955.00 MHz
Marker
Marker Freq (MHz)
Marker Level (dBm)
1 5793.2 12.11
2 5850 -22.31
3 5954 -35.37

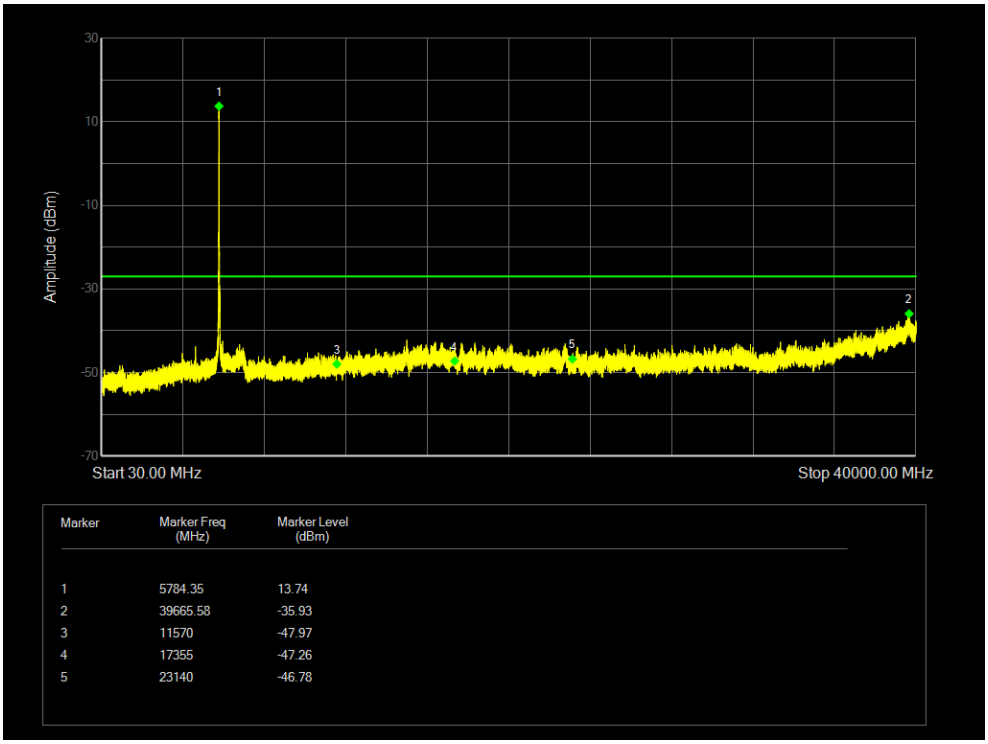
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11a	5745	Ant 1	-35.01	-27	Pass
NVNT	802.11a	5785	Ant 1	-35.93	-27	Pass
NVNT	802.11a	5825	Ant 1	-36.97	-27	Pass
NVNT	802.11ac20	5745	Ant 1	-35.4	-27	Pass
NVNT	802.11ac20	5785	Ant 1	-35.22	-27	Pass
NVNT	802.11ac20	5825	Ant 1	-43.96	-27	Pass
NVNT	802.11ac40	5755	Ant 1	-36.1	-27	Pass
NVNT	802.11ac40	5795	Ant 1	-35.87	-27	Pass
NVNT	802.11ac80	5775	Ant 1	-35.52	-27	Pass
NVNT	802.11n(HT20)	5745	Ant 1	-36.12	-27	Pass
NVNT	802.11n(HT20)	5785	Ant 1	-35.73	-27	Pass
NVNT	802.11n(HT20)	5825	Ant 1	-36.75	-27	Pass
NVNT	802.11n(HT40)	5755	Ant 1	-36.3	-27	Pass
NVNT	802.11n(HT40)	5795	Ant 1	-36.64	-27	Pass

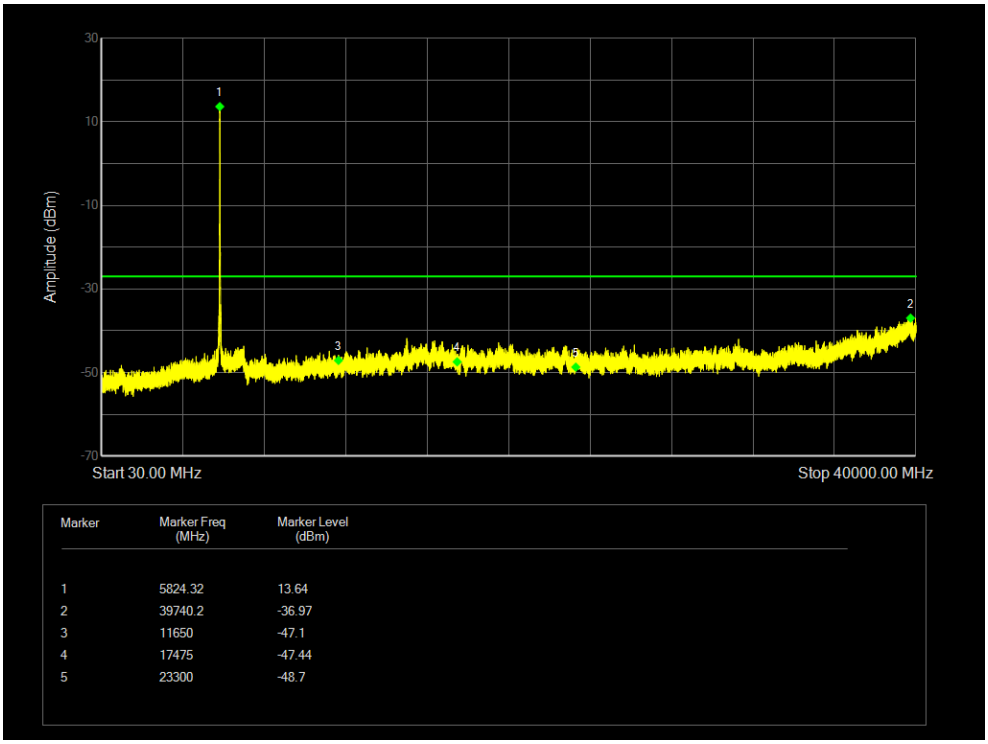
Tx. Spurious NVNT 802.11a 5745MHz Ant1 Emission



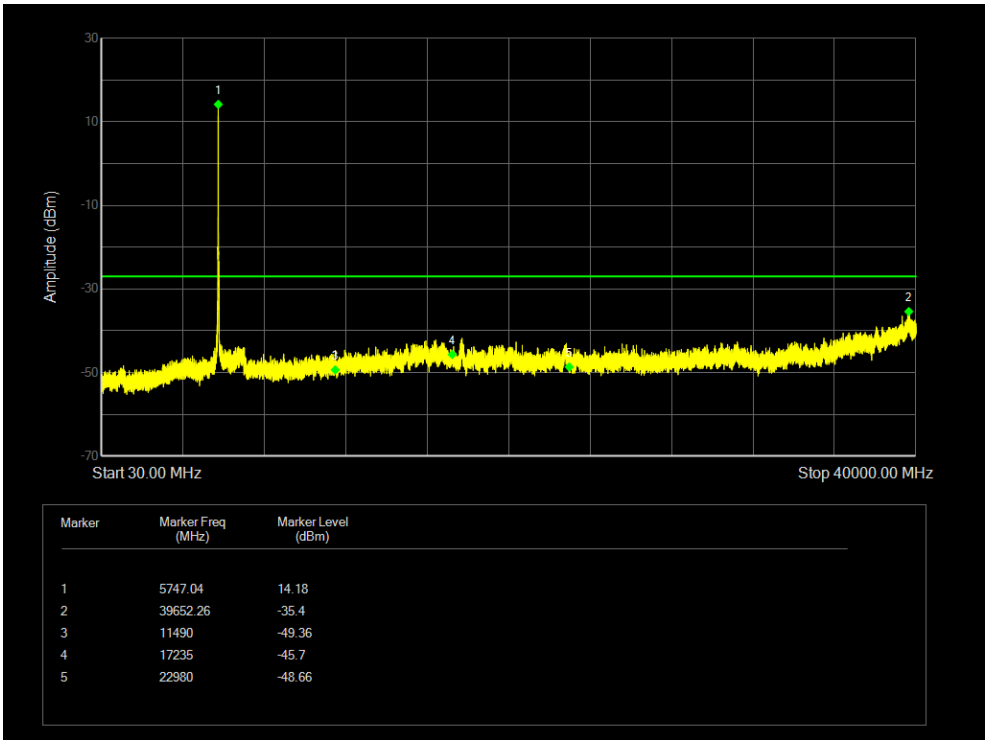
Tx. Spurious NVNT 802.11a 5785MHz Ant1 Emission



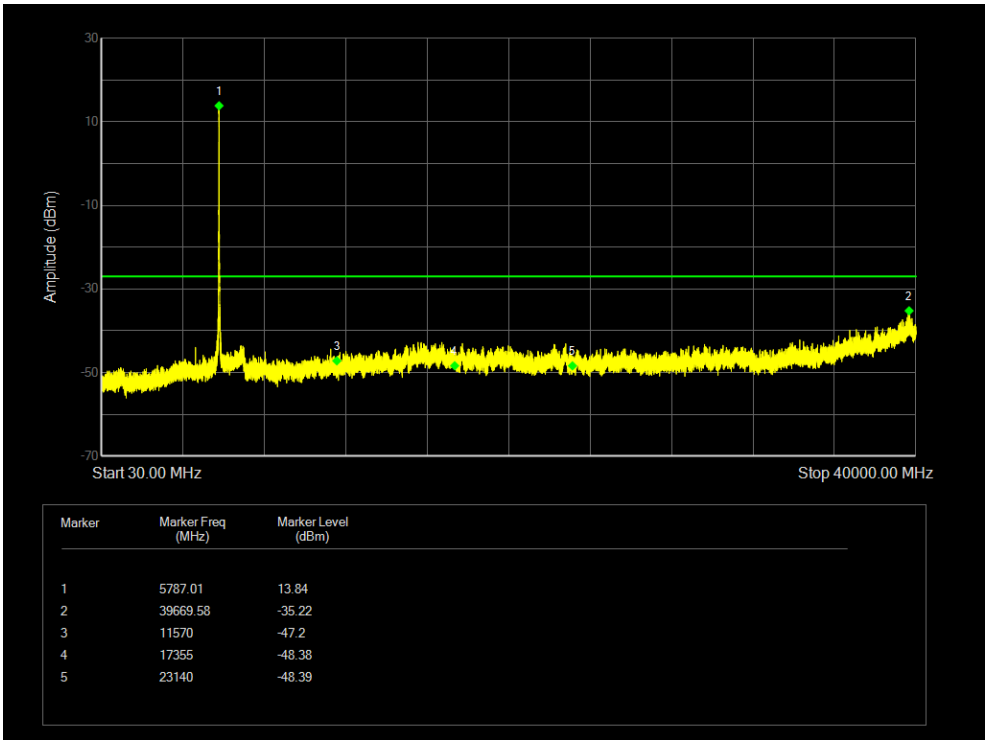
Tx. Spurious NVNT 802.11a 5825MHz Ant1 Emission



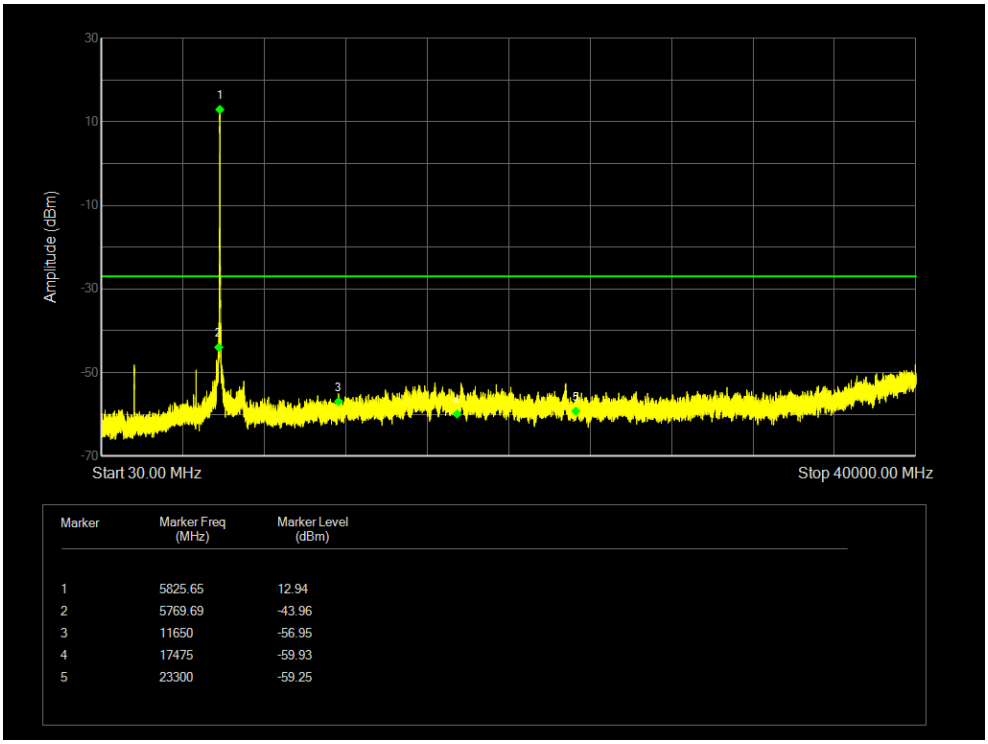
Tx. Spurious NVNT 802.11ac20 5745MHz Ant1 Emission



Tx. Spurious NVNT 802.11ac20 5785MHz Ant1 Emission

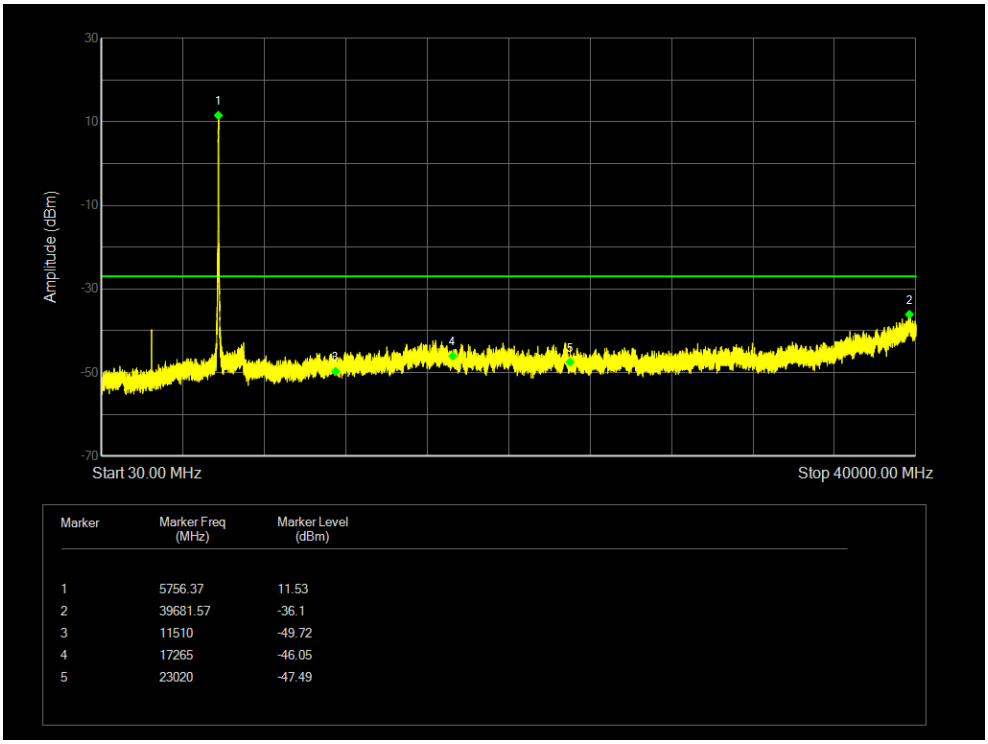


Tx. Spurious NVNT 802.11ac20 5825MHz Ant1 Emission



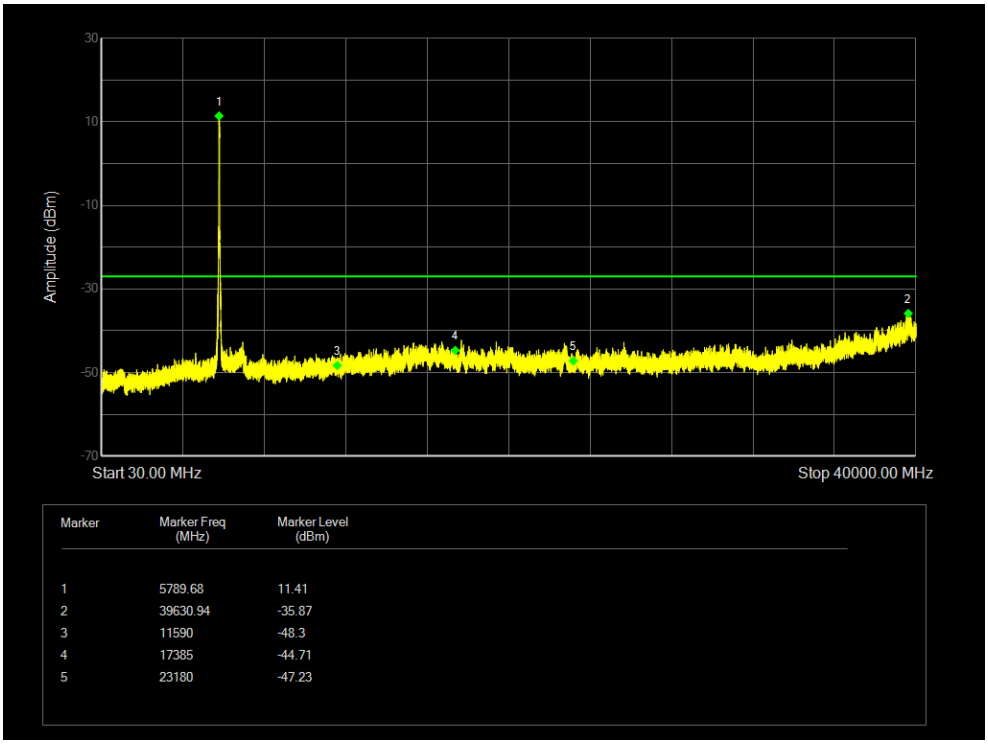
Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5825.65	12.94
2	5769.69	-43.96
3	11650	-56.95
4	17475	-59.93
5	23300	-59.25

Tx. Spurious NVNT 802.11ac40 5755MHz Ant1 Emission

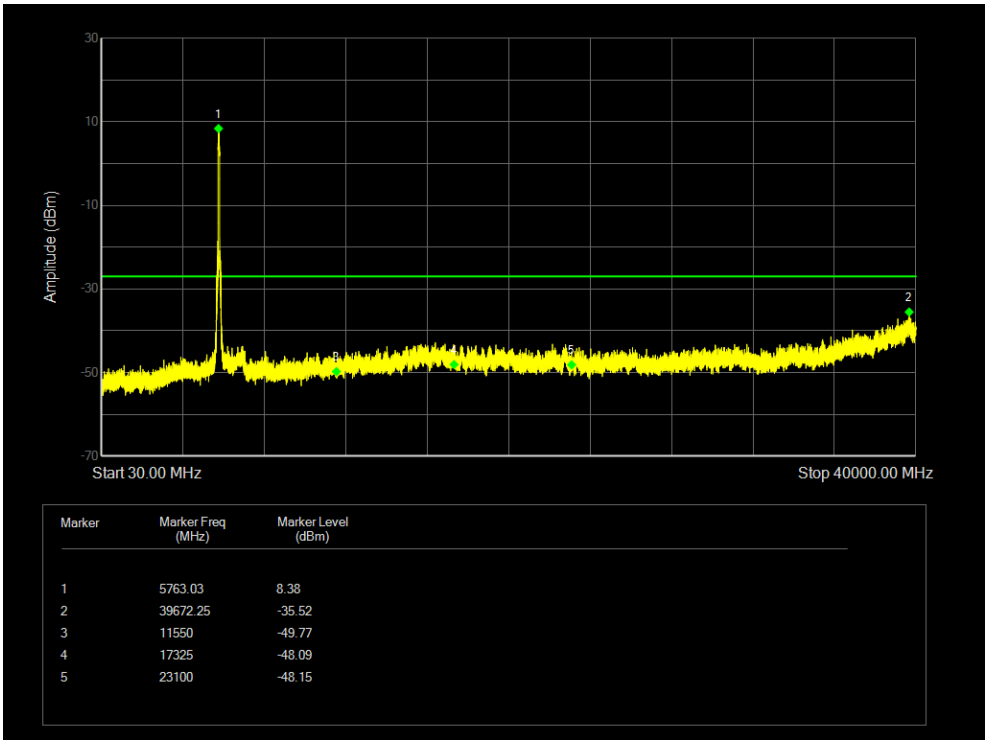


Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5756.37	11.53
2	39681.57	-36.1
3	11510	-49.72
4	17265	-46.05
5	23020	-47.49

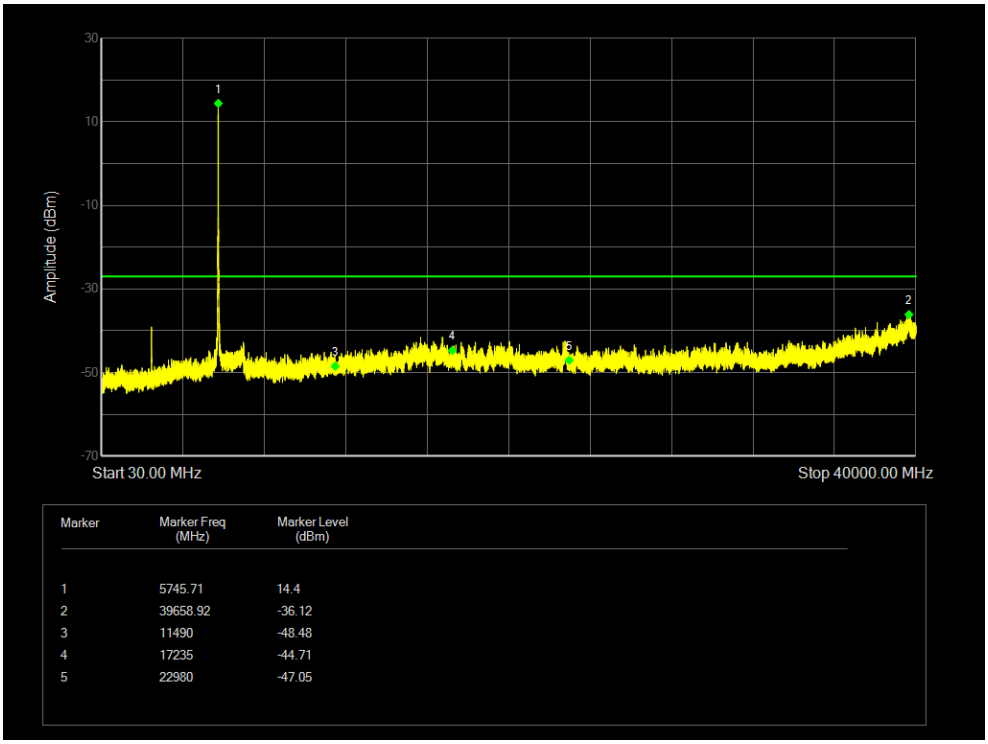
Tx. Spurious NVNT 802.11ac40 5795MHz Ant1 Emission



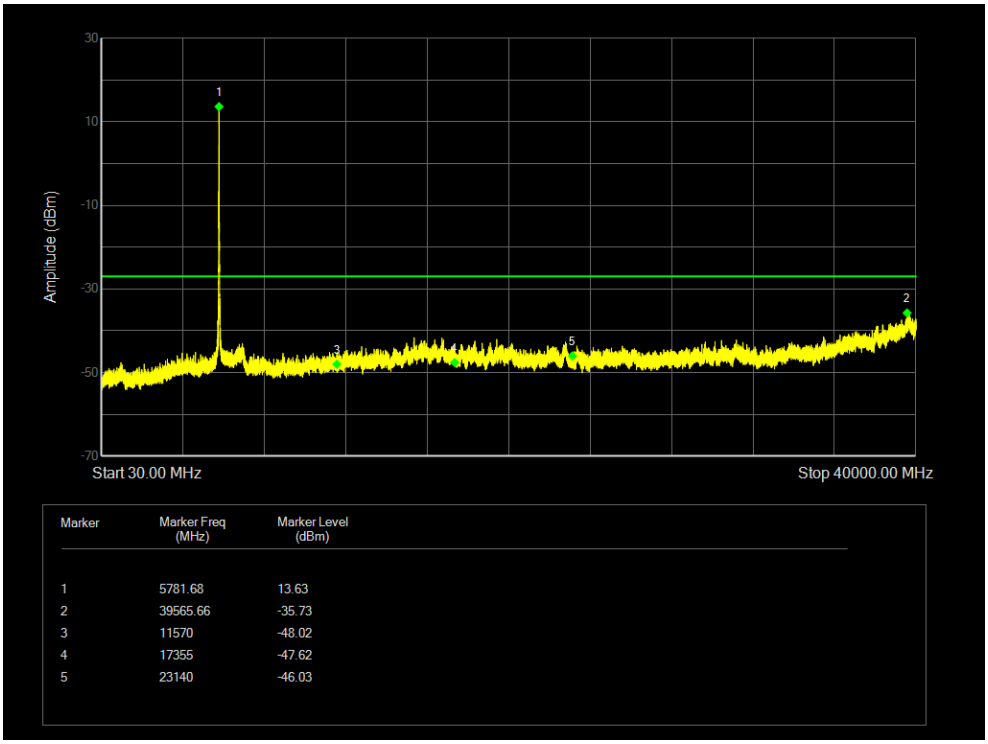
Tx. Spurious NVNT 802.11ac80 5775MHz Ant1 Emission



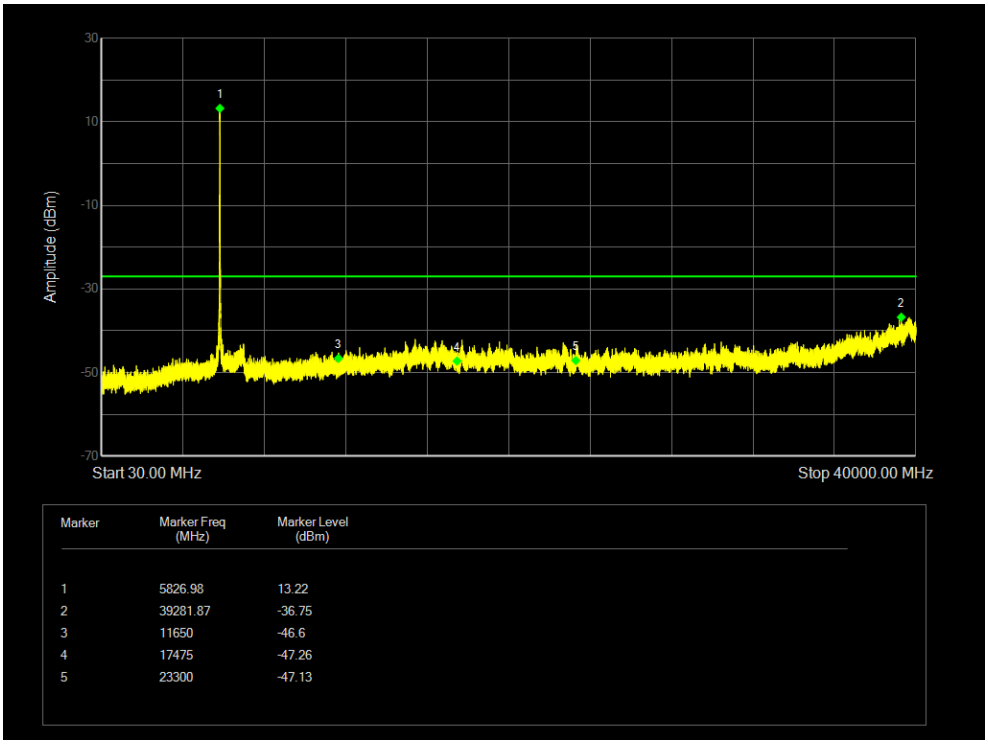
Tx. Spurious NVNT 802.11n(HT20) 5745MHz Ant1 Emission



Tx. Spurious NVNT 802.11n(HT20) 5785MHz Ant1 Emission

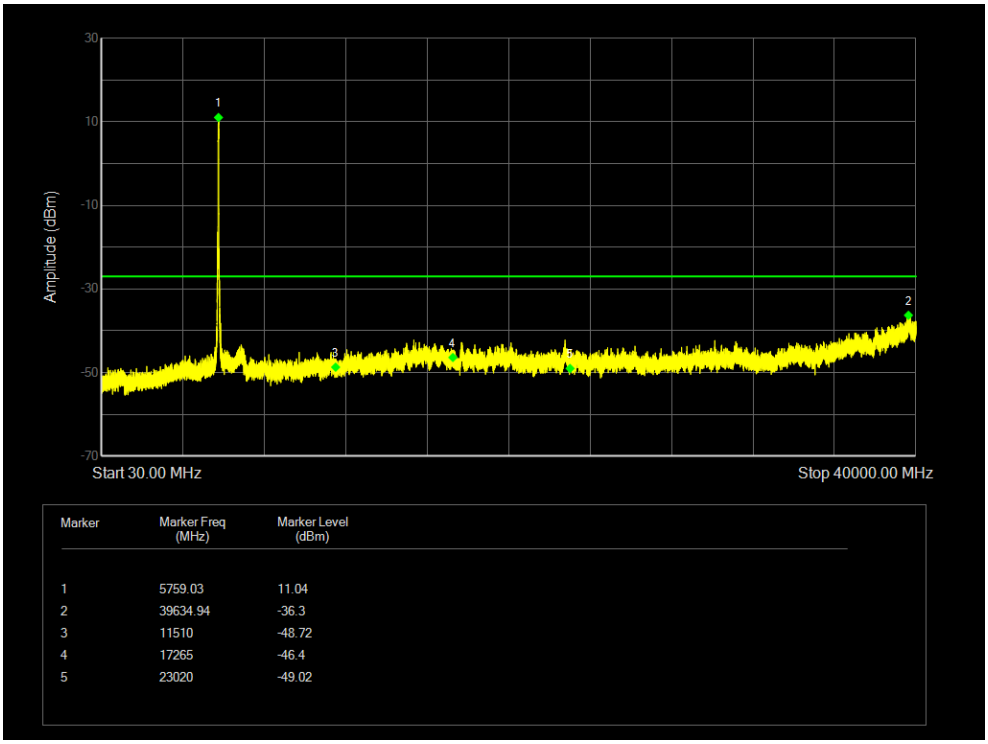


Tx. Spurious NVNT 802.11n(HT20) 5825MHz Ant1 Emission



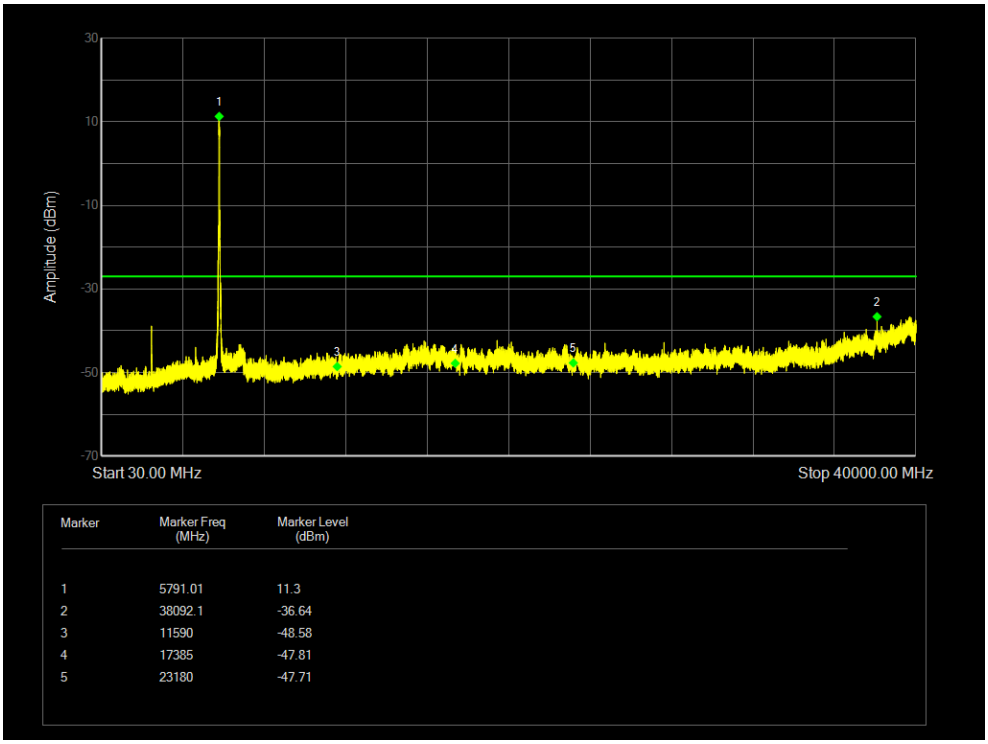
Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5826.98	13.22
2	39281.87	-36.75
3	11650	-46.6
4	17475	-47.26
5	23300	-47.13

Tx. Spurious NVNT 802.11n(HT40) 5755MHz Ant1 Emission



Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5759.03	11.04
2	39634.94	-36.3
3	11510	-48.72
4	17265	-46.4
5	23020	-49.02

Tx. Spurious NVNT 802.11n(HT40) 5795MHz Ant1 Emission

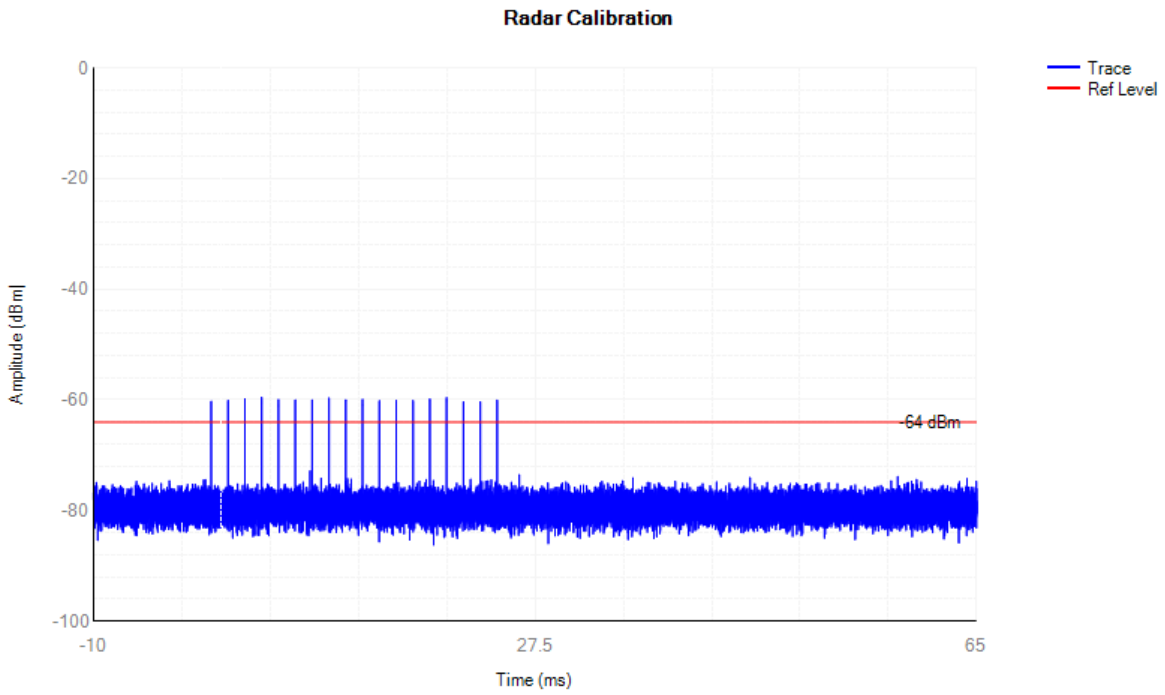


Marker	Marker Freq (MHz)	Marker Level (dBm)
1	5791.01	11.3
2	38092.1	-36.64
3	11590	-48.58
4	17385	-47.81
5	23180	-47.71

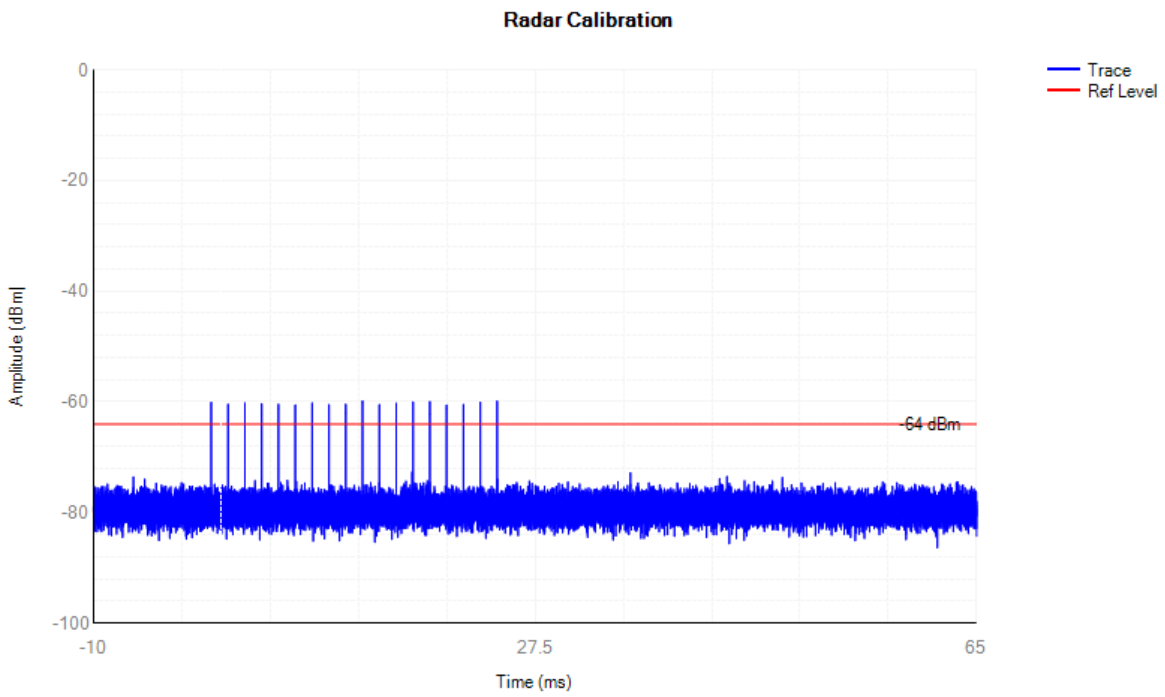
DFS

Calibration

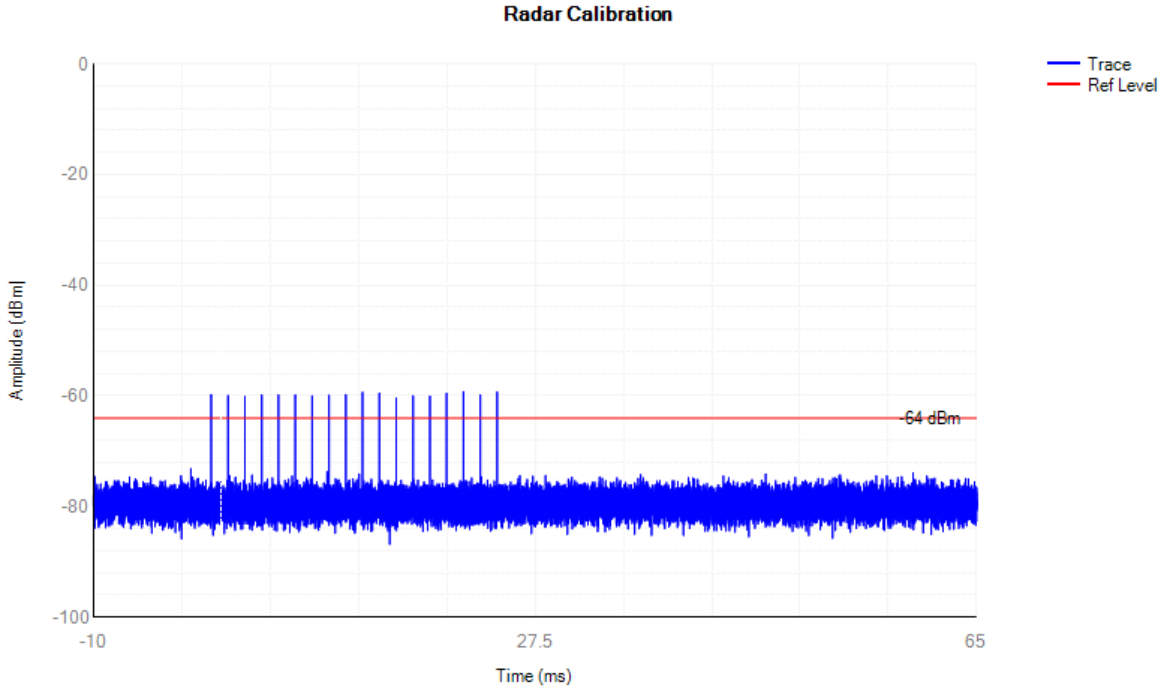
5260MHz a DFS_FCC_T0



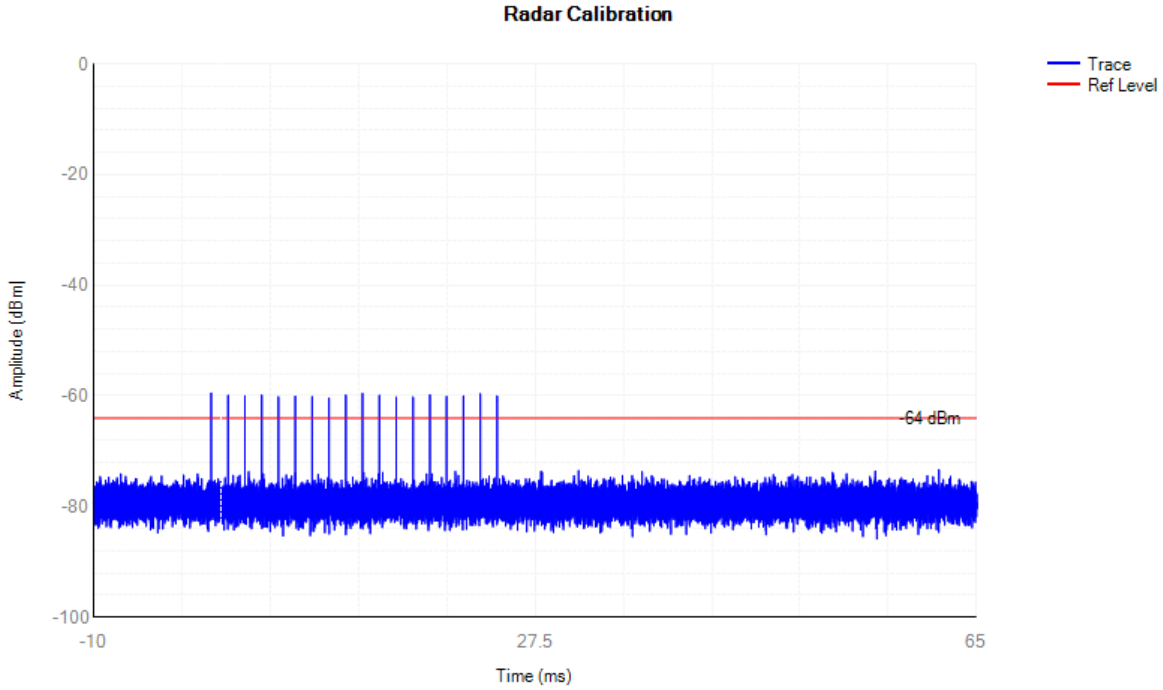
5500MHz a DFS_FCC_T0



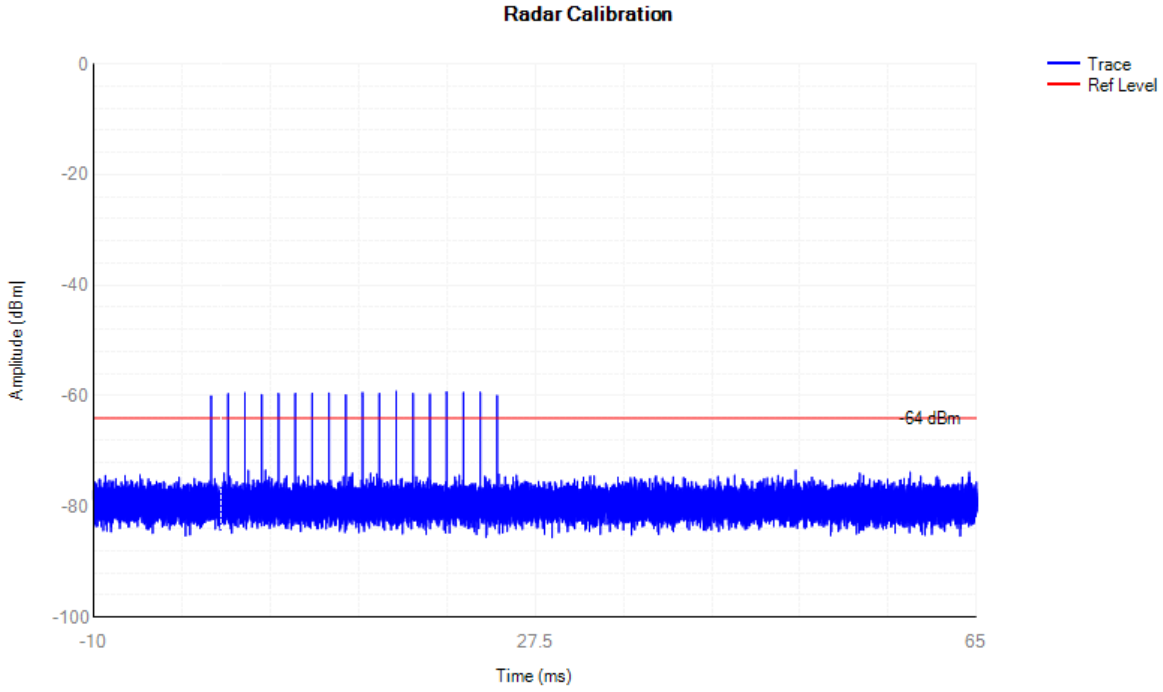
5270MHz n40 DFS_FCC_T0



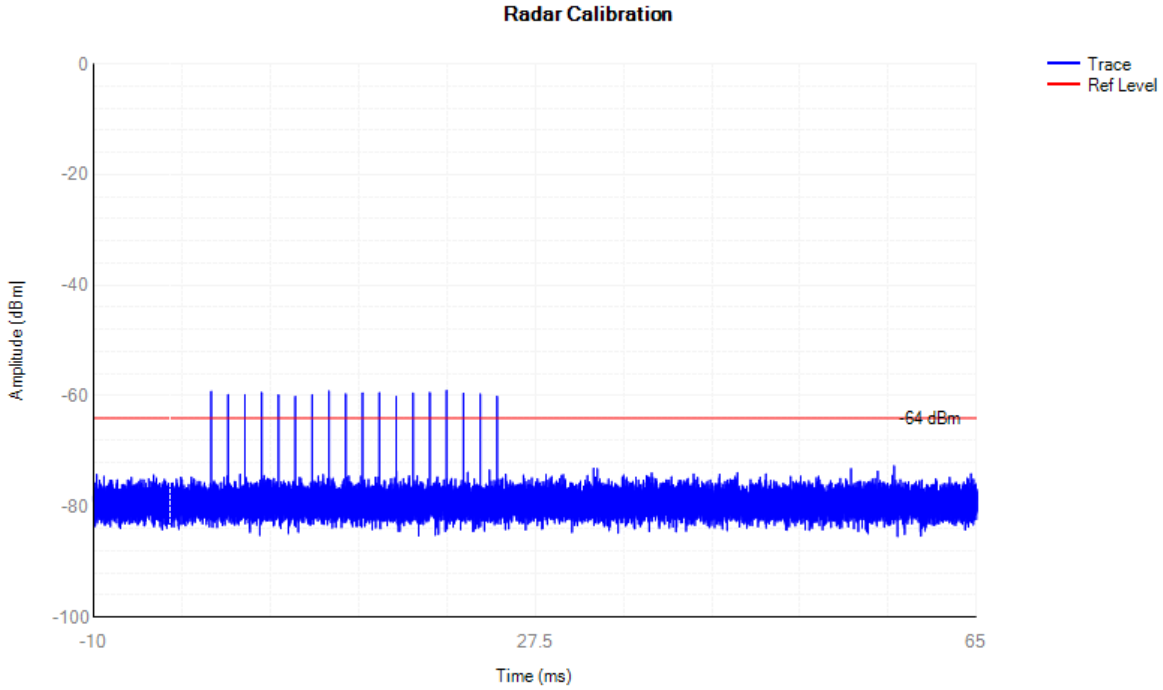
5510MHz n40 DFS_FCC_T0



5290MHz ac80 DFS_FCC_T0

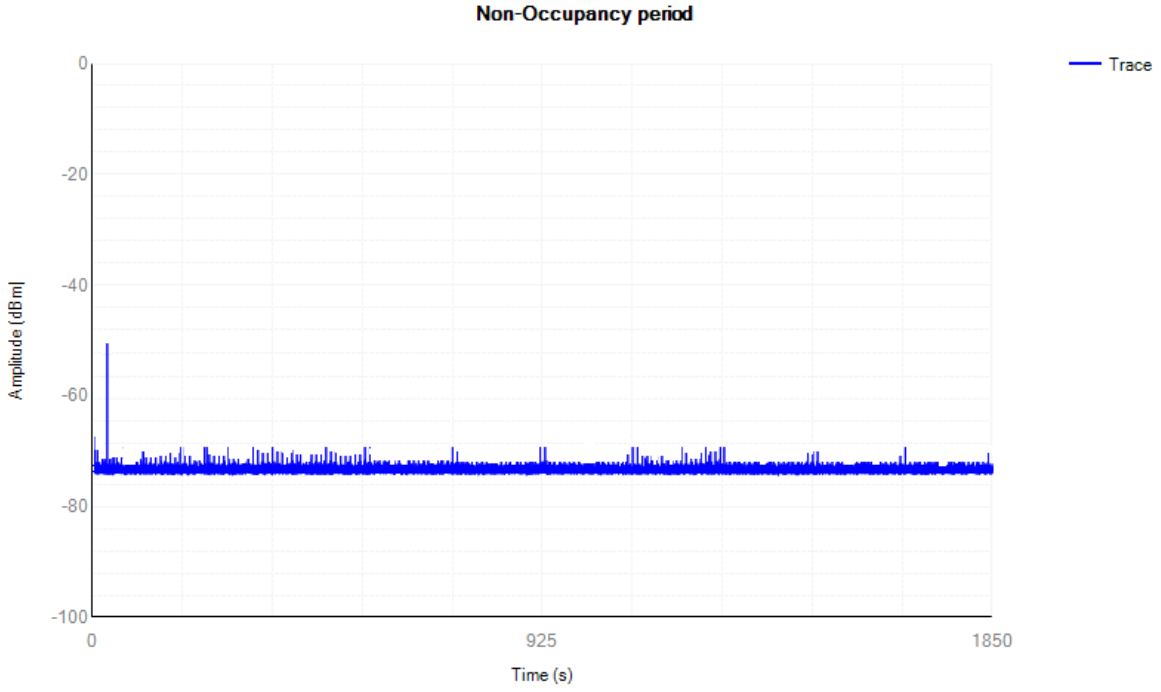


5530MHz ac80 DFS_FCC_T0

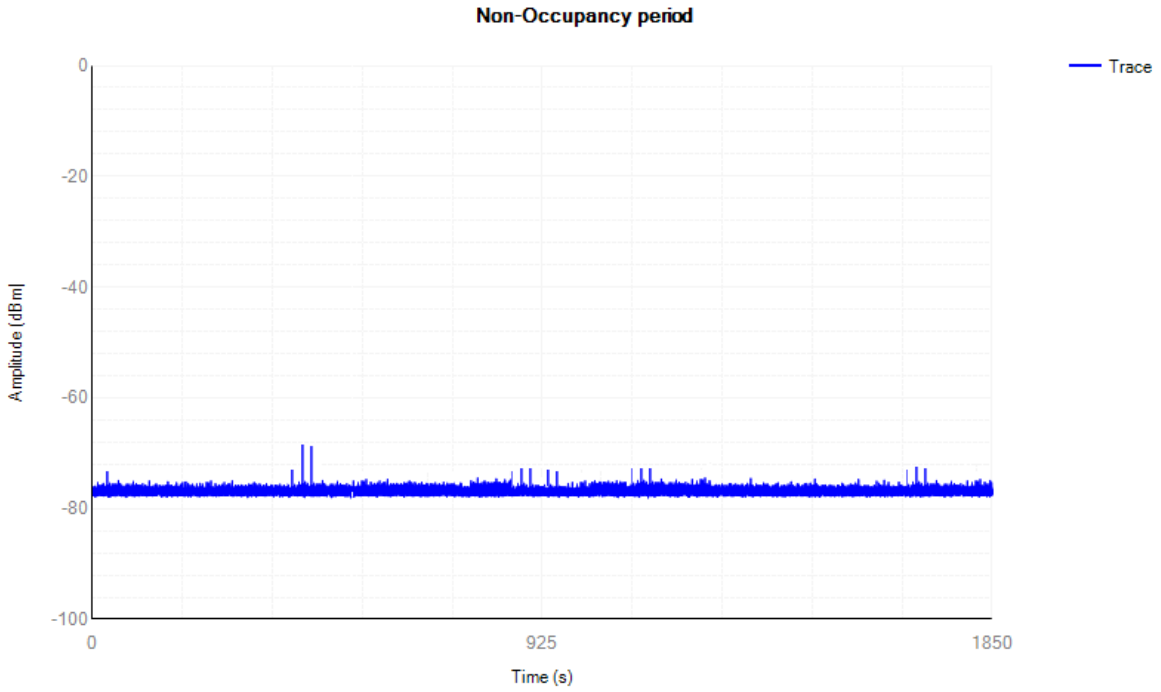


Non-Occupancy

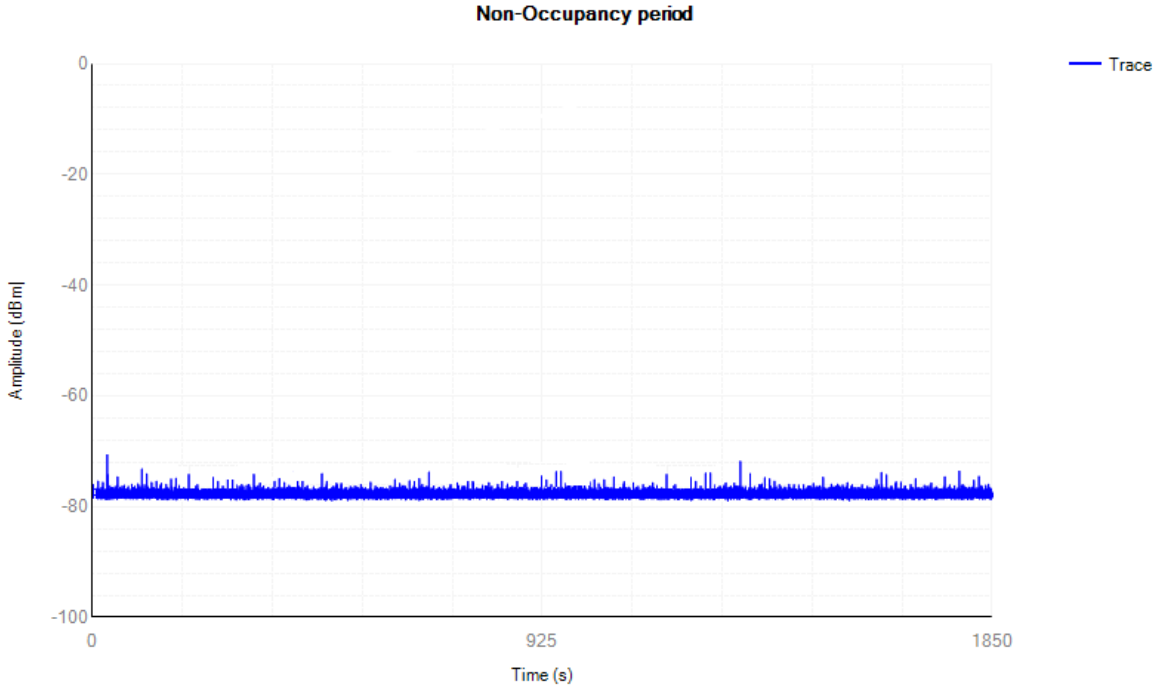
5260MHz a Non-Occupancy



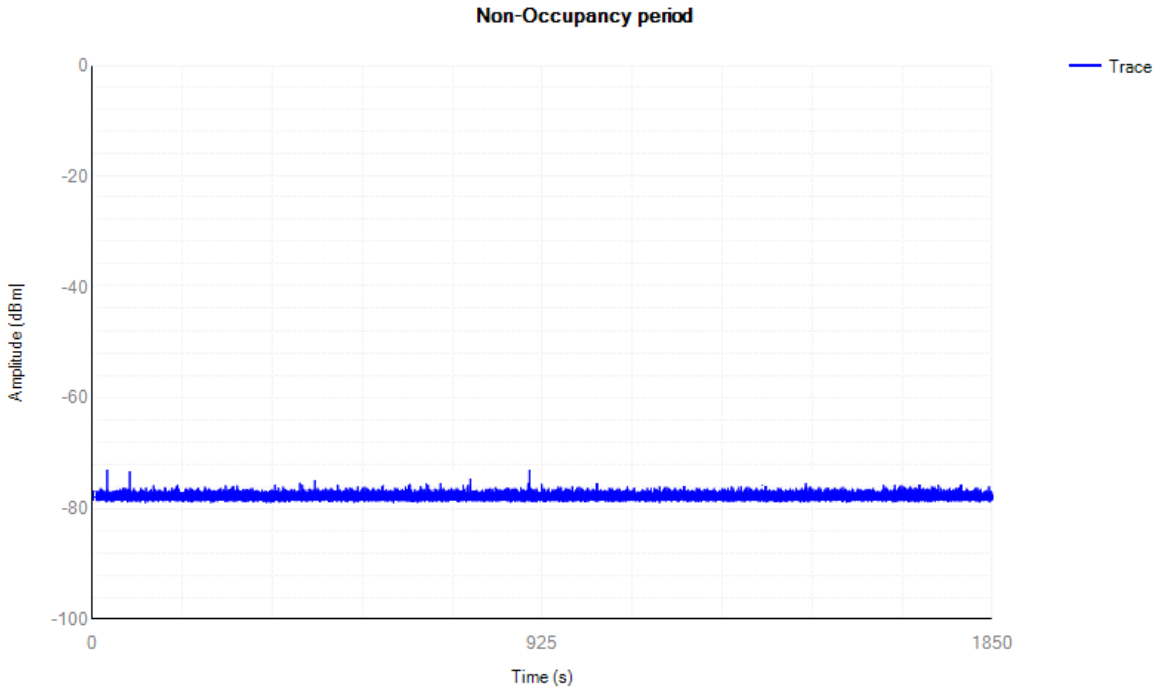
5500MHz a Non-Occupancy



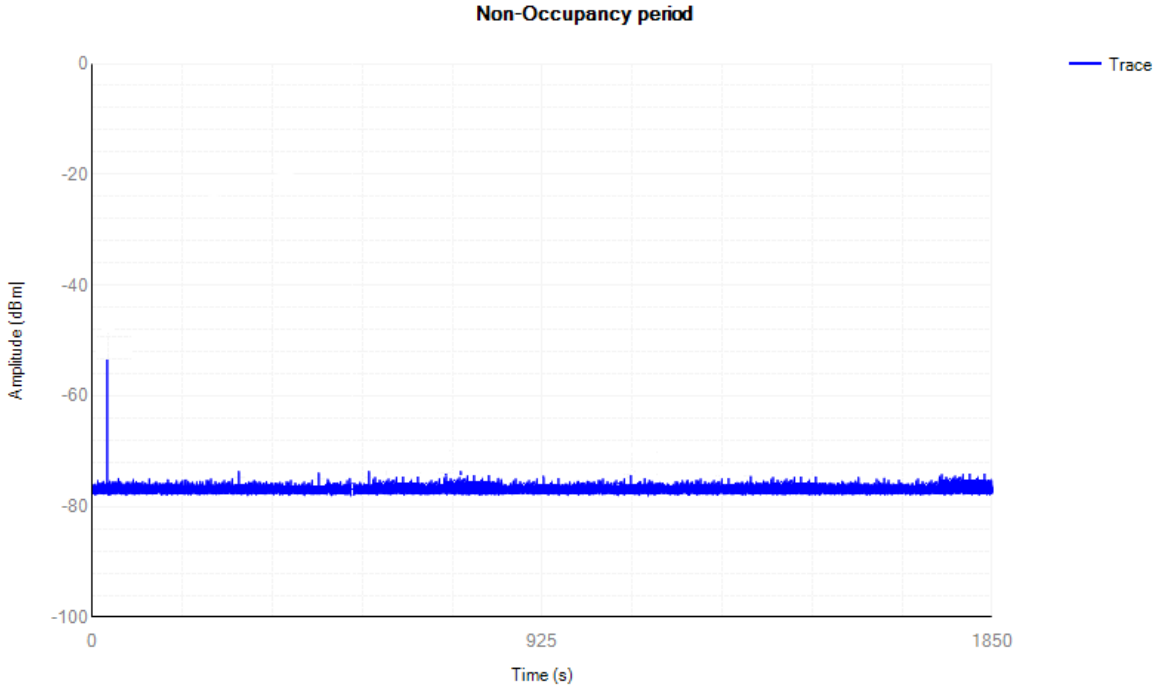
5270MHz n40 Non-Occupancy



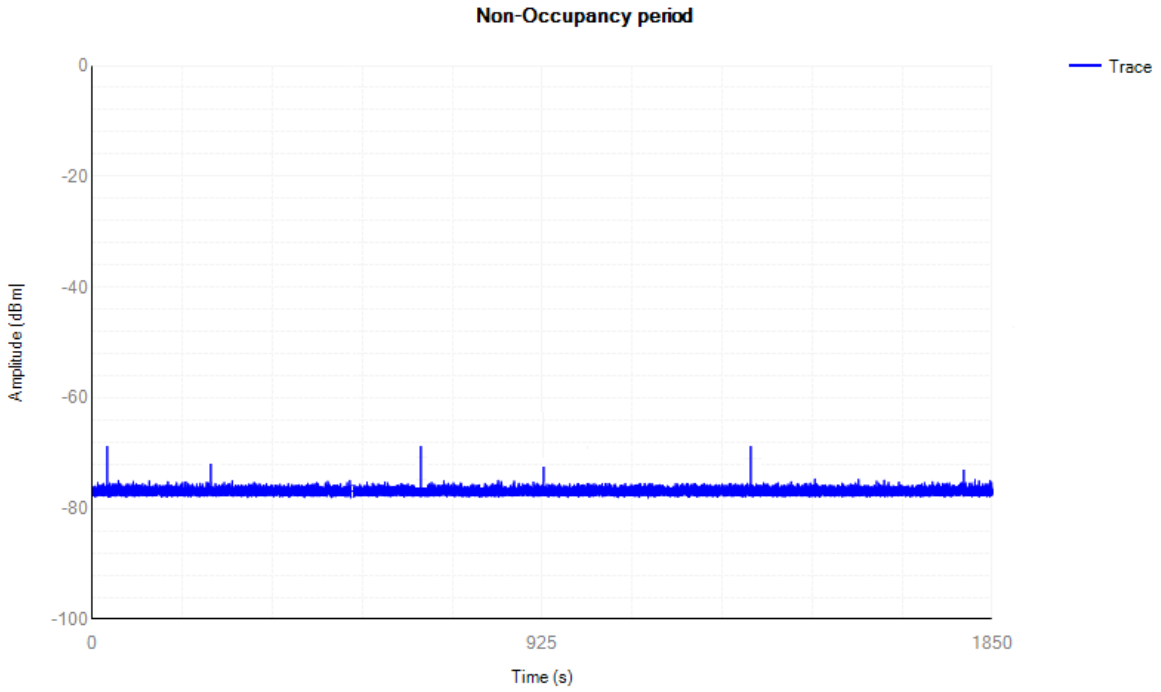
5510MHz n40 Non-Occupancy



5290MHz ac80 Non-Occupancy



5530MHz ac80 Non-Occupancy

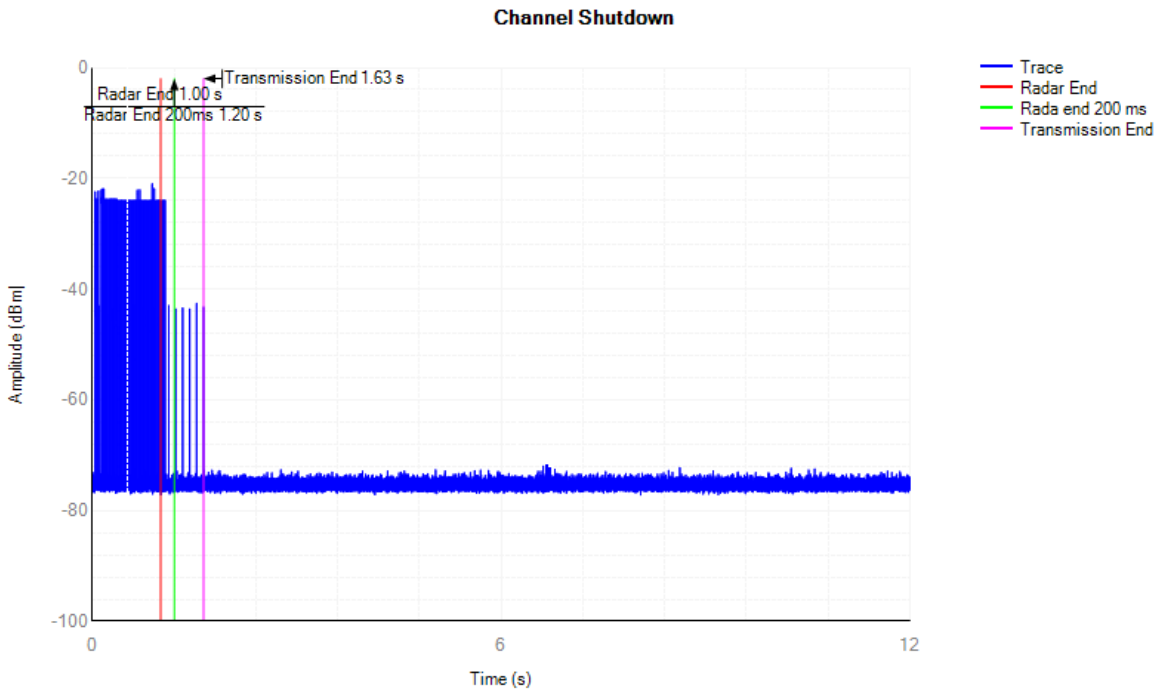


Shutdown Time

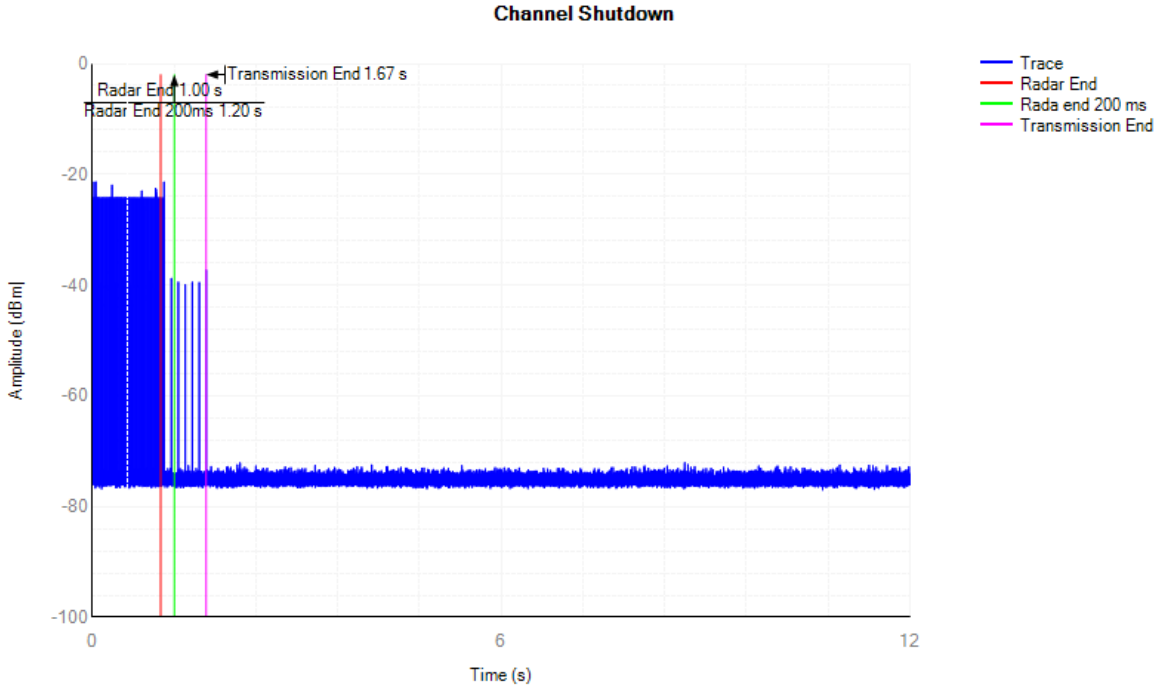
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict

a	5260	0.63	10	0.006	0.26	0.002	0.06	Pass
a	5500	0.6684	10	0.0072	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

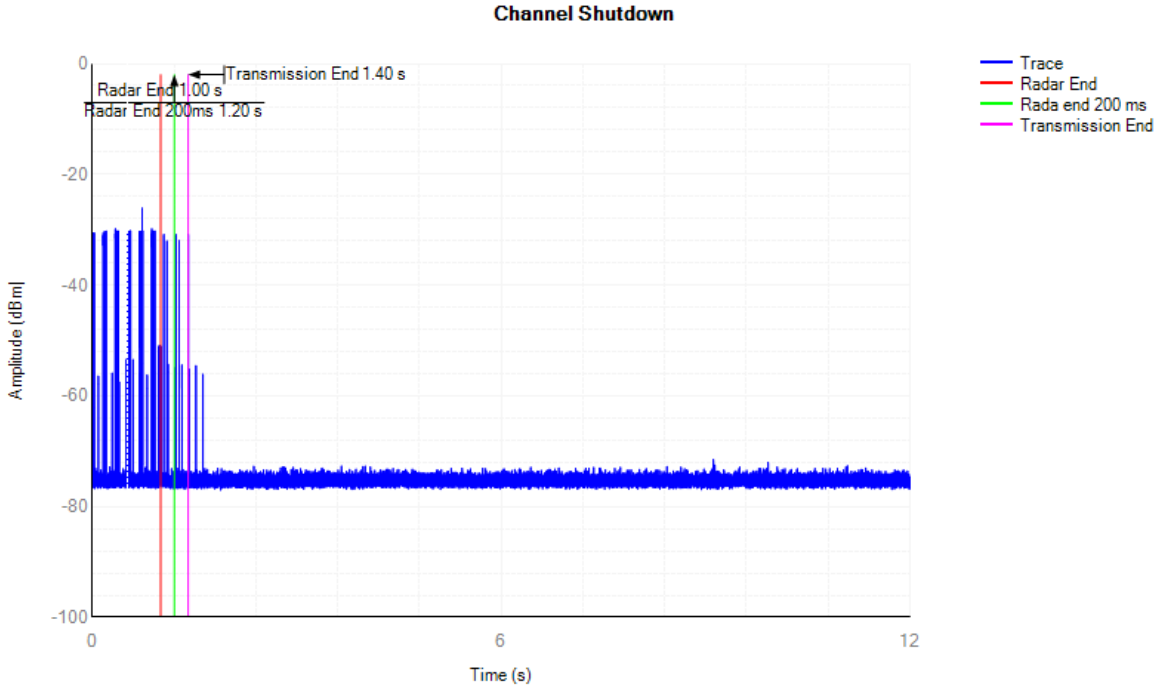
5260MHz a Shutdown



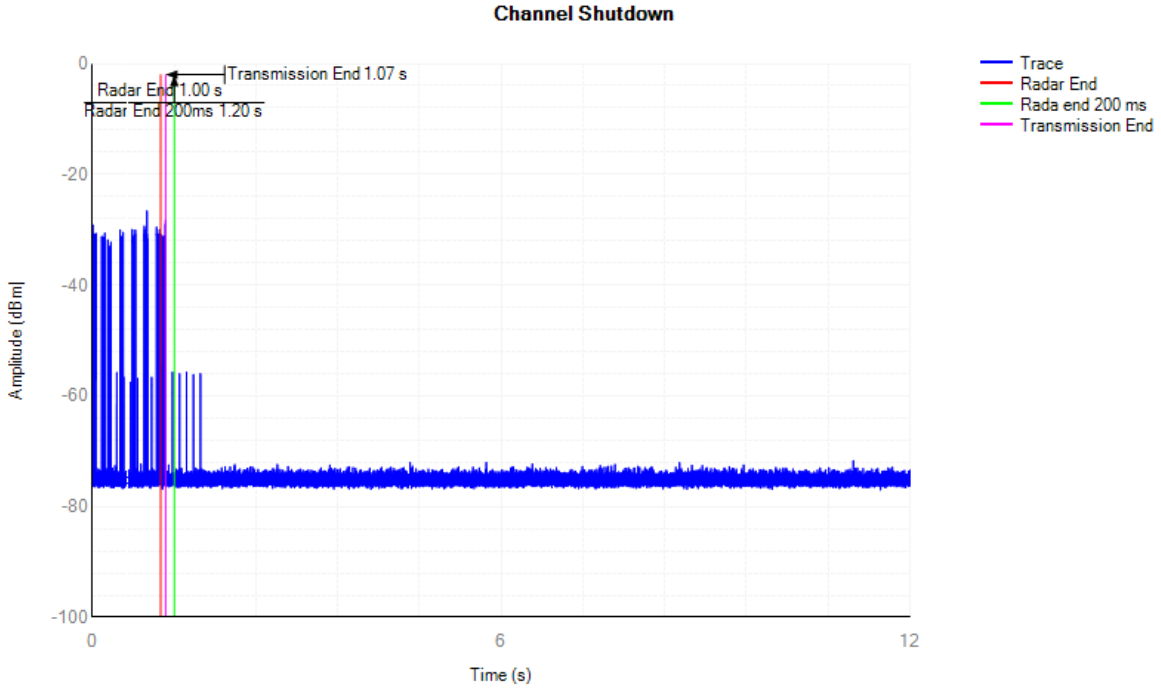
5500MHz a Shutdown



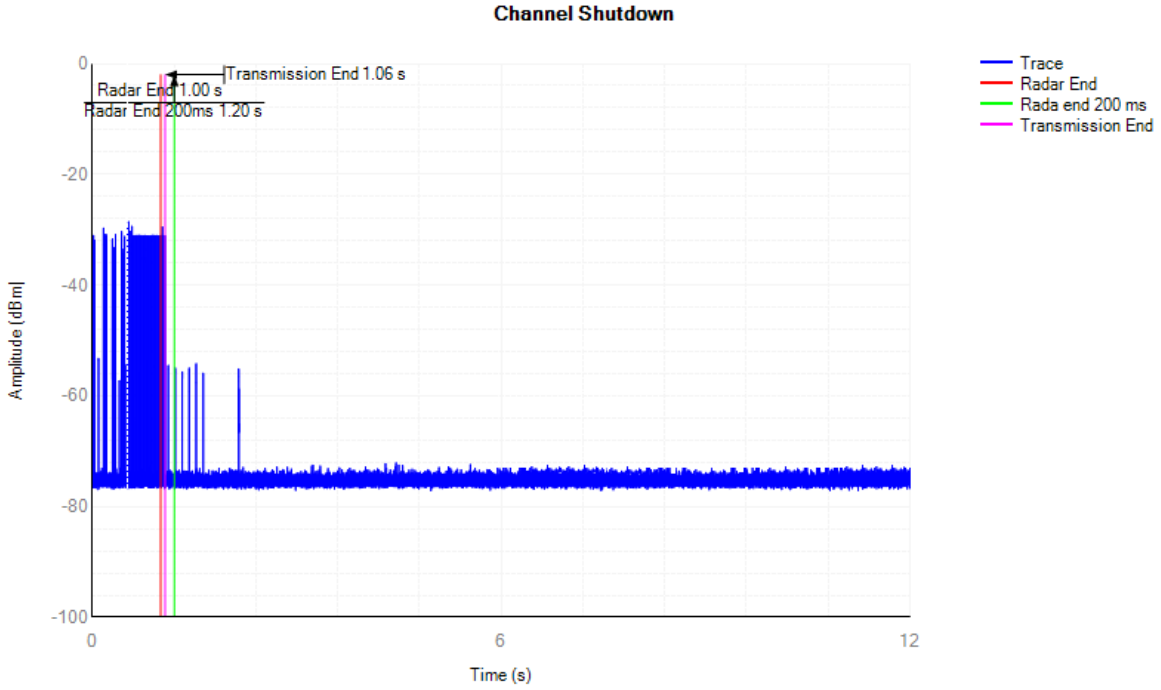
5270MHz n40 Shutdown



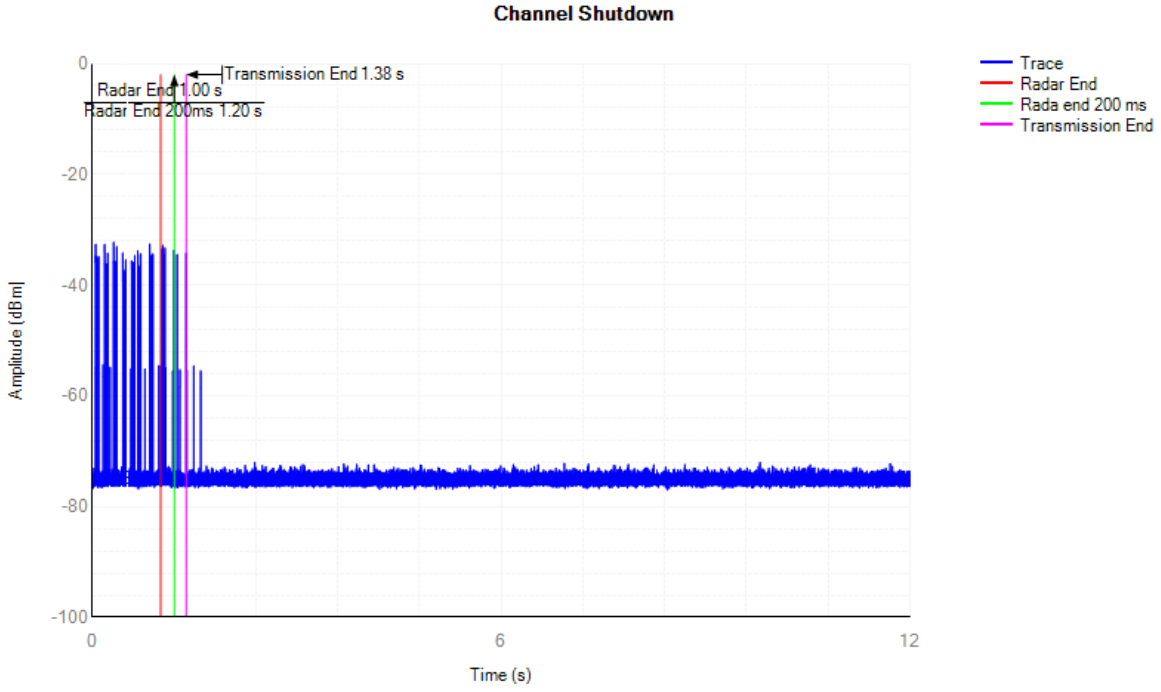
5510MHz n40 Shutdown



5290MHz ac80 Shutdown



5530MHz ac80 Shutdown


Channel Shutdown
Transmission End 1.38 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)