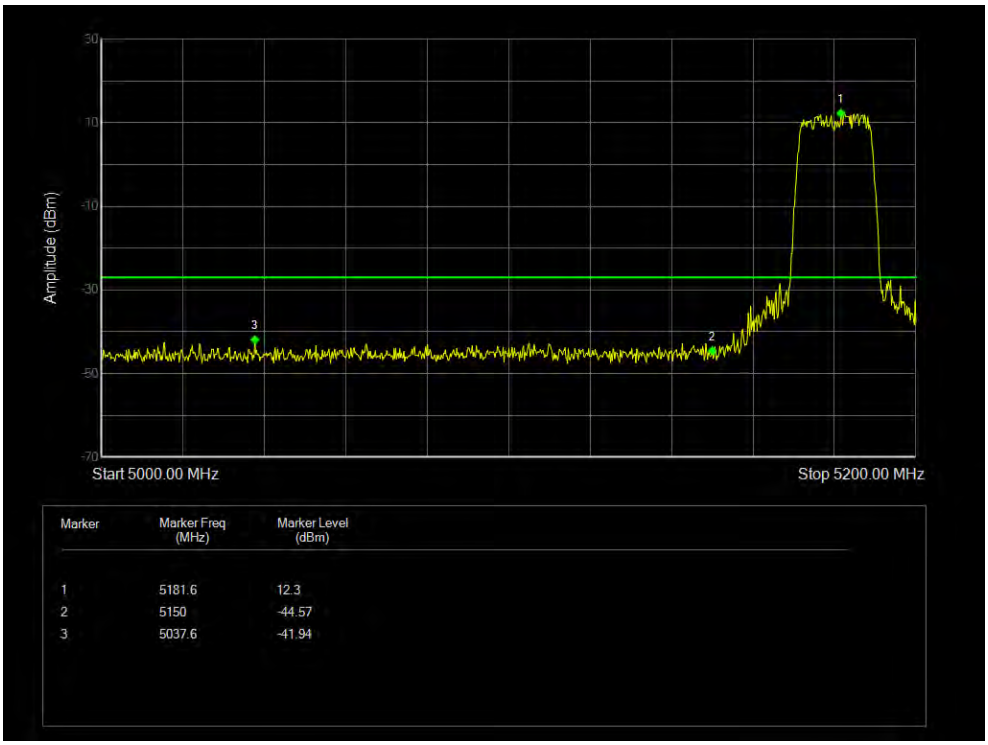
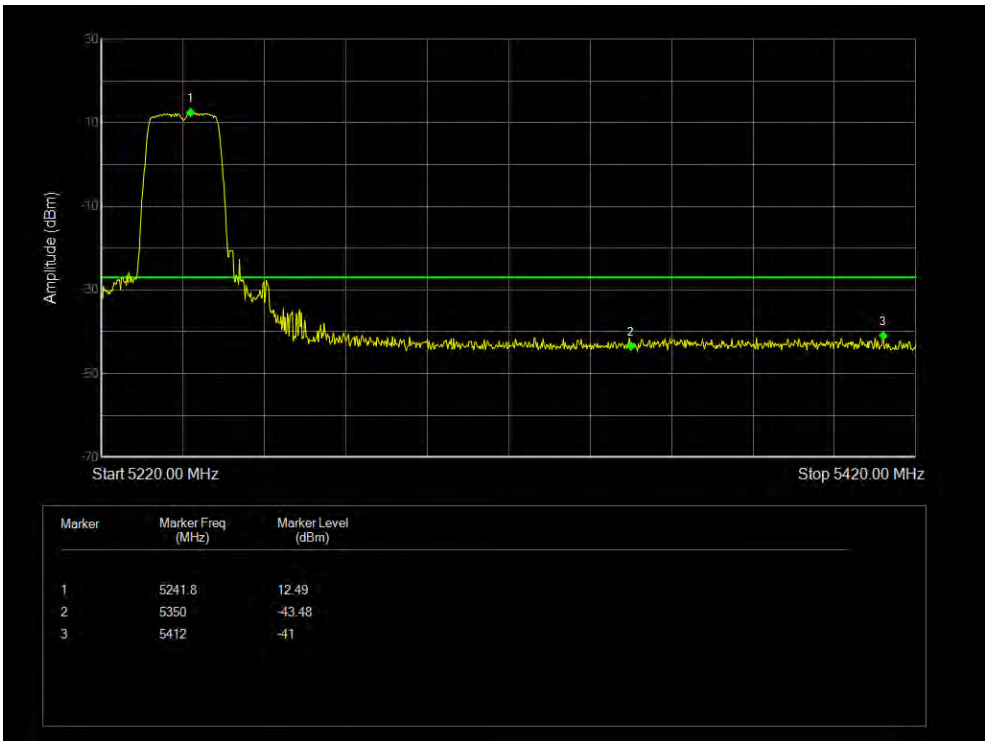
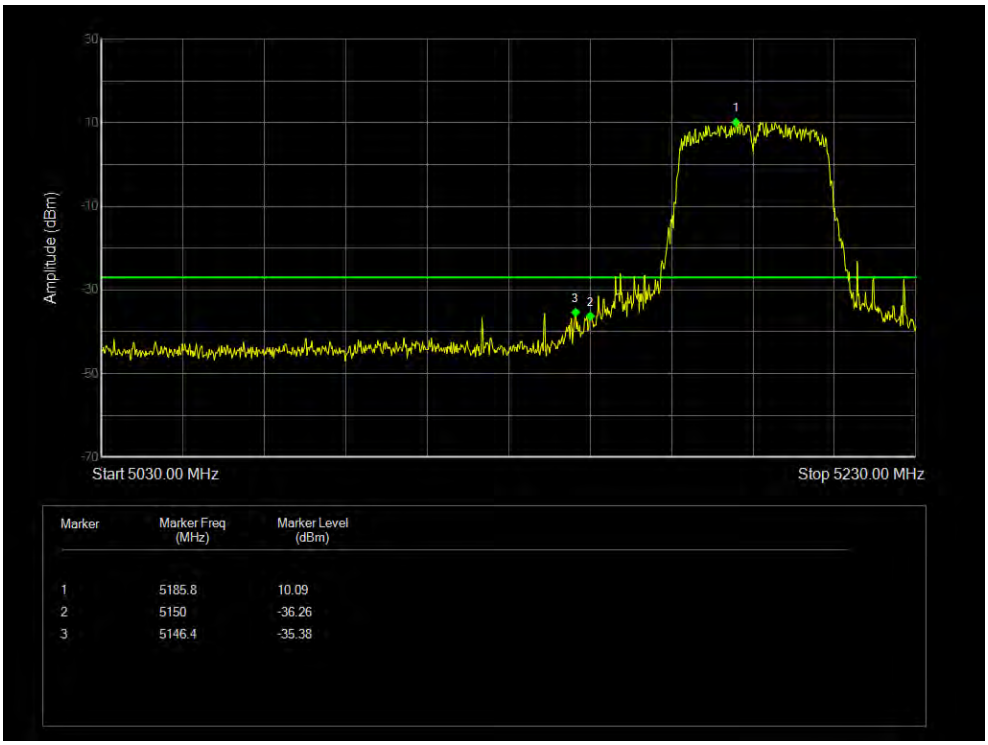
Band Edge NVNT 802.11n(HT20) 5180MHz Low Ant 2



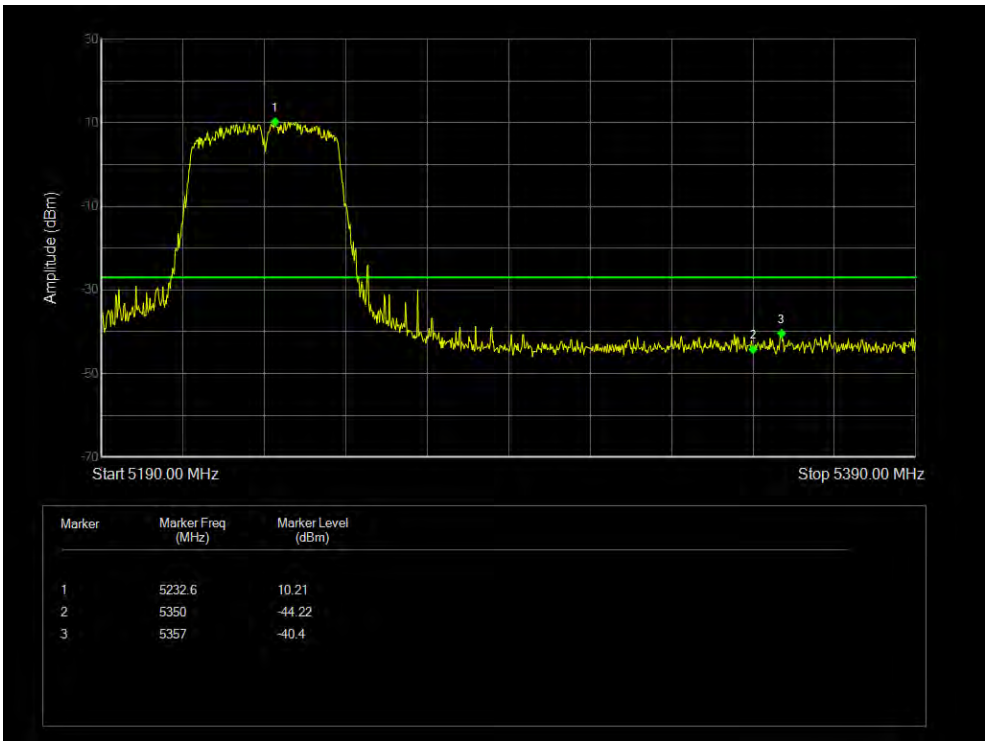
Band Edge NVNT 802.11n(HT20) 5240MHz High Ant 2



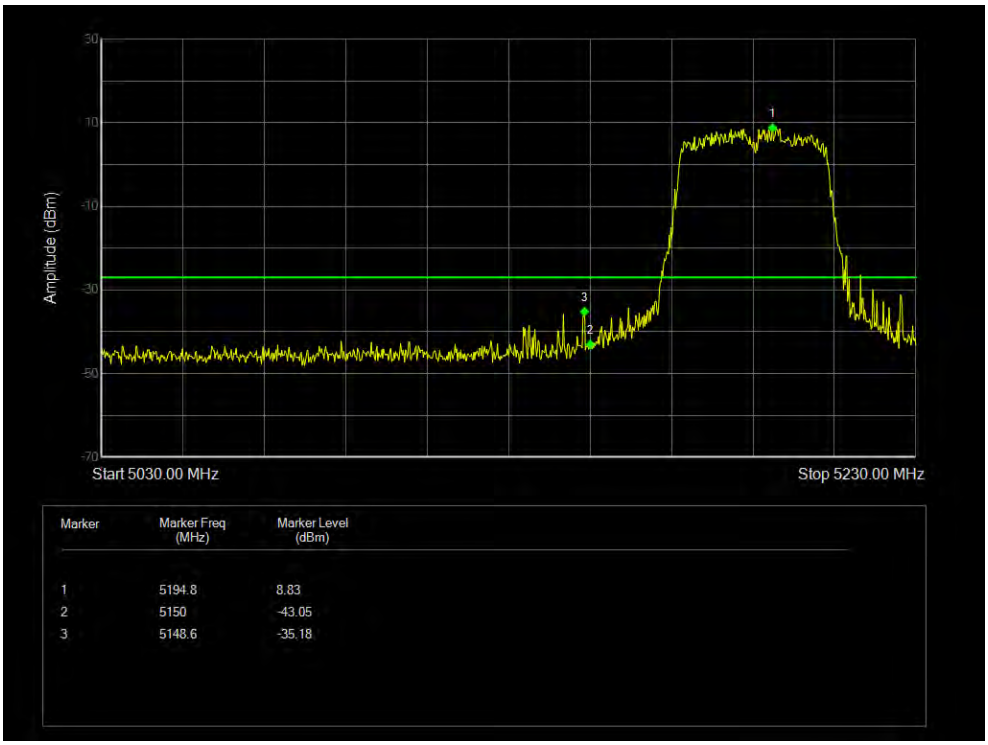
Band Edge NVNT 802.11n(HT40) 5190MHz Low Ant 1



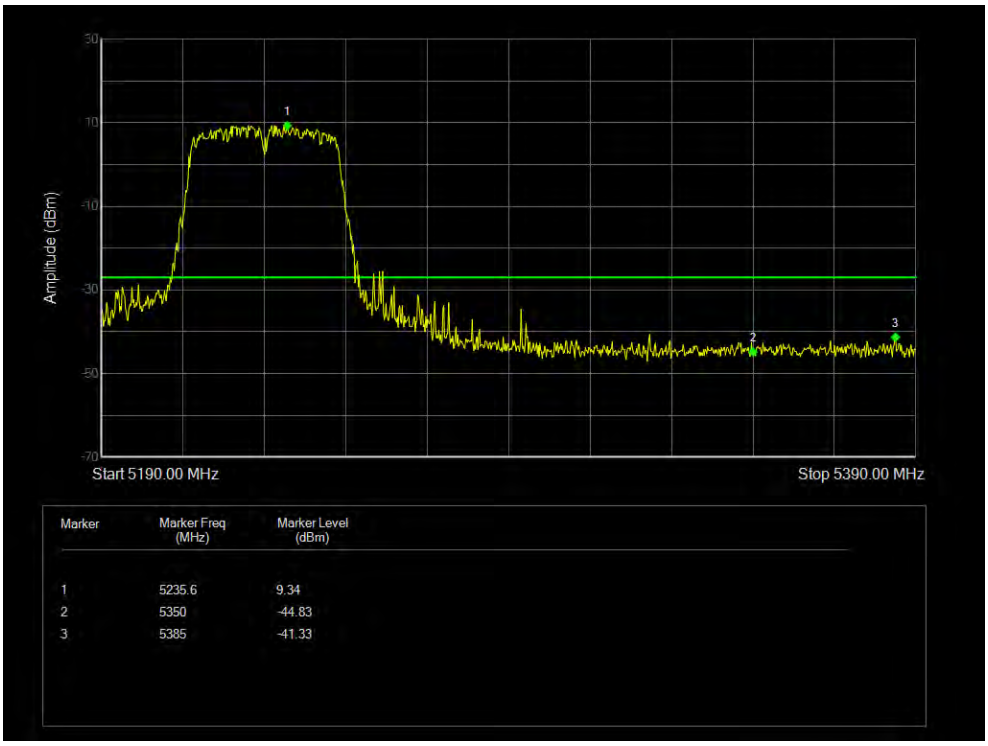
Band Edge NVNT 802.11n(HT40) 5230MHz High Ant 1



Band Edge NVNT 802.11n(HT40) 5190MHz Low Ant 2



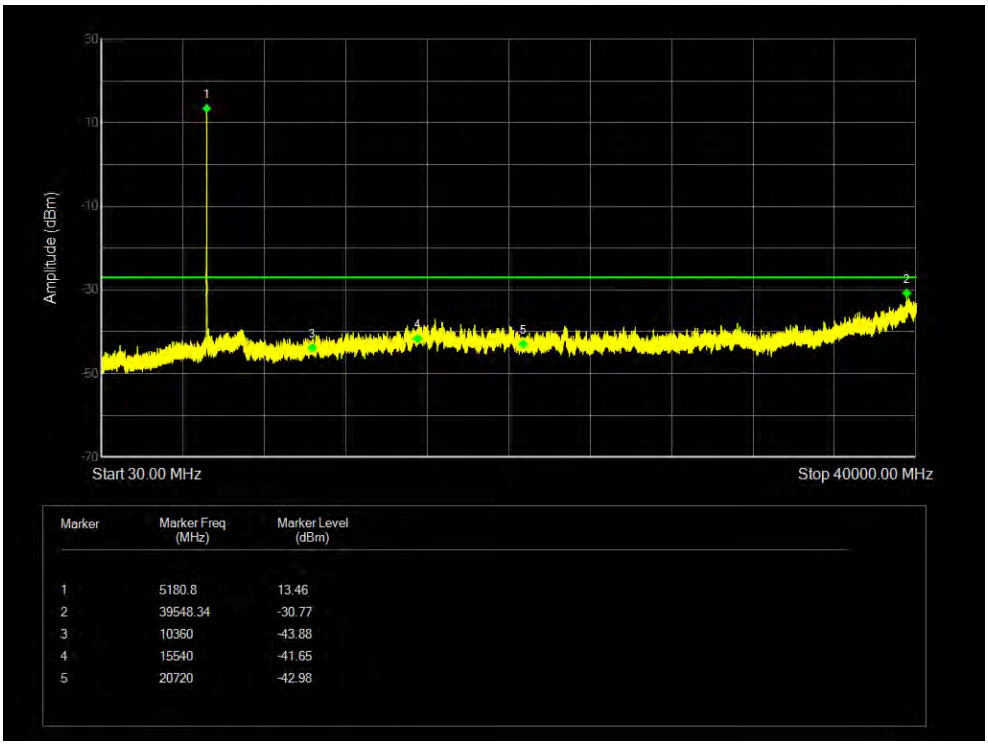
Band Edge NVNT 802.11n(HT40) 5230MHz High Ant 2



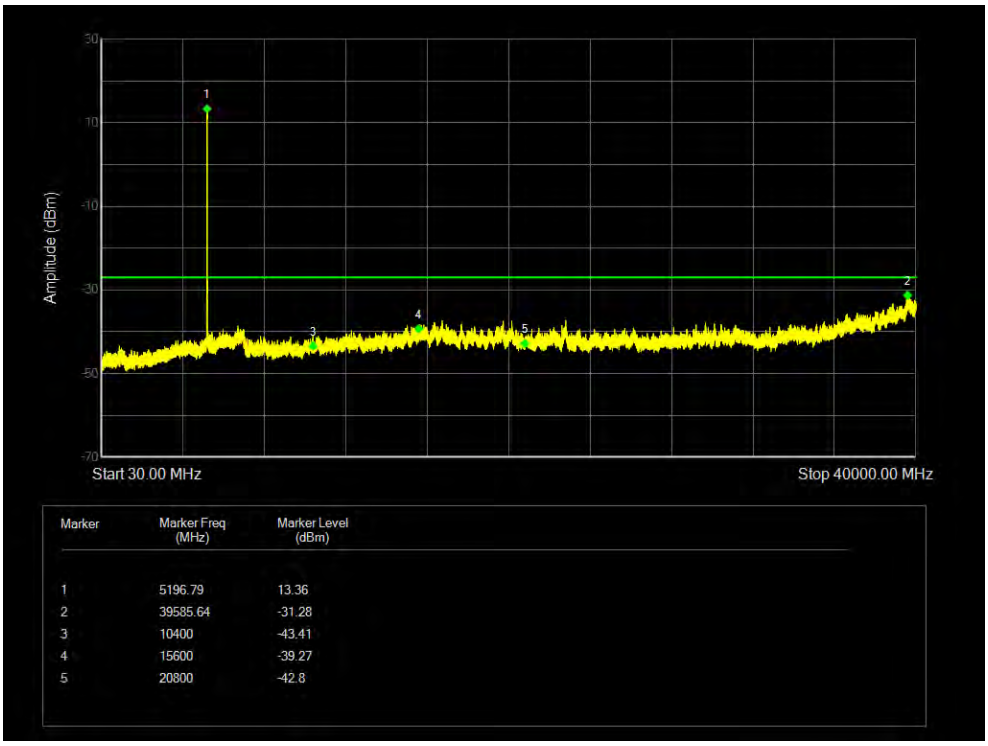
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11a	5180	Ant 1	-30.77	-27	Pass
NVNT	802.11a	5200	Ant 1	-31.28	-27	Pass
NVNT	802.11a	5240	Ant 1	-30.21	-27	Pass
NVNT	802.11a	5180	Ant 2	-32.51	-27	Pass
NVNT	802.11a	5200	Ant 2	-31.47	-27	Pass
NVNT	802.11a	5240	Ant 2	-31.86	-27	Pass
NVNT	802.11ac20	5180	Ant 1	-31.65	-27	Pass
NVNT	802.11ac20	5200	Ant 1	-30.82	-27	Pass
NVNT	802.11ac20	5240	Ant 1	-30.93	-27	Pass
NVNT	802.11ac20	5180	Ant 2	-31.68	-27	Pass
NVNT	802.11ac20	5200	Ant 2	-32.77	-27	Pass
NVNT	802.11ac20	5240	Ant 2	-32.66	-27	Pass
NVNT	802.11ac40	5190	Ant 1	-30.64	-27	Pass
NVNT	802.11ac40	5230	Ant 1	-32.22	-27	Pass
NVNT	802.11ac40	5190	Ant 2	-32.68	-27	Pass
NVNT	802.11ac40	5230	Ant 2	-32.45	-27	Pass
NVNT	802.11ac80	5210	Ant 1	-31.85	-27	Pass
NVNT	802.11ac80	5210	Ant 2	-32.25	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 1	-31.5	-27	Pass
NVNT	802.11n(HT20)	5200	Ant 1	-32.12	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 1	-30.29	-27	Pass
NVNT	802.11n(HT20)	5180	Ant 2	-32.35	-27	Pass
NVNT	802.11n(HT20)	5200	Ant 2	-32.35	-27	Pass
NVNT	802.11n(HT20)	5240	Ant 2	-32.57	-27	Pass
NVNT	802.11n(HT40)	5190	Ant 1	-31.72	-27	Pass
NVNT	802.11n(HT40)	5230	Ant 1	-31.7	-27	Pass
NVNT	802.11n(HT40)	5190	Ant 2	-32.36	-27	Pass
NVNT	802.11n(HT40)	5230	Ant 2	-32.98	-27	Pass

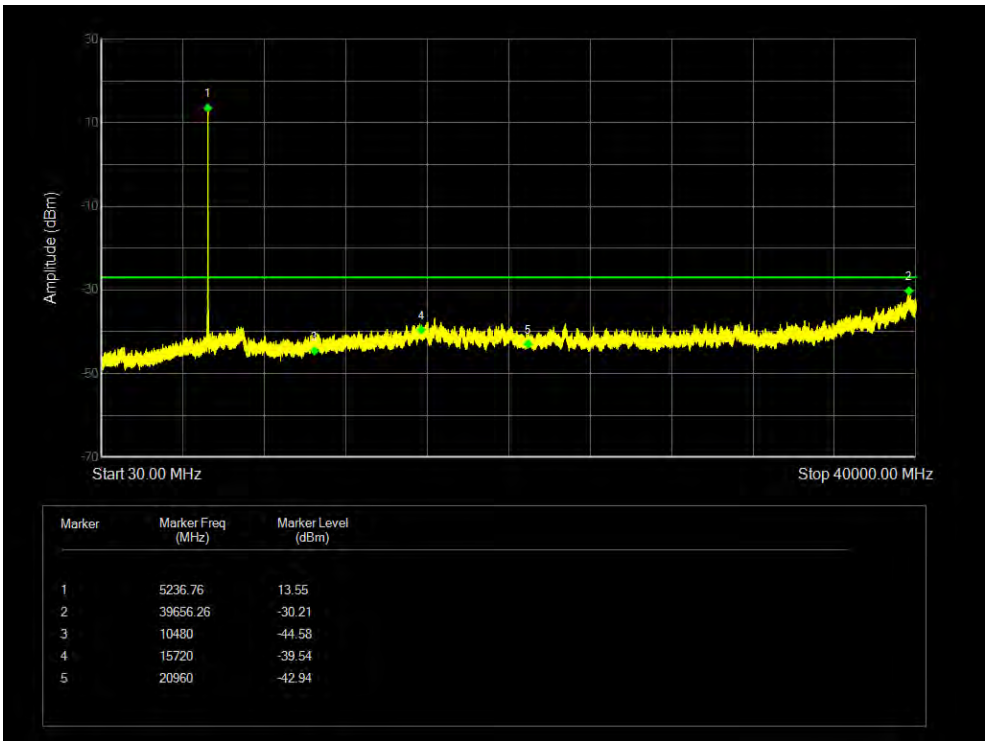
Tx. Spurious NVNT 802.11a 5180MHz Ant 1 Emission



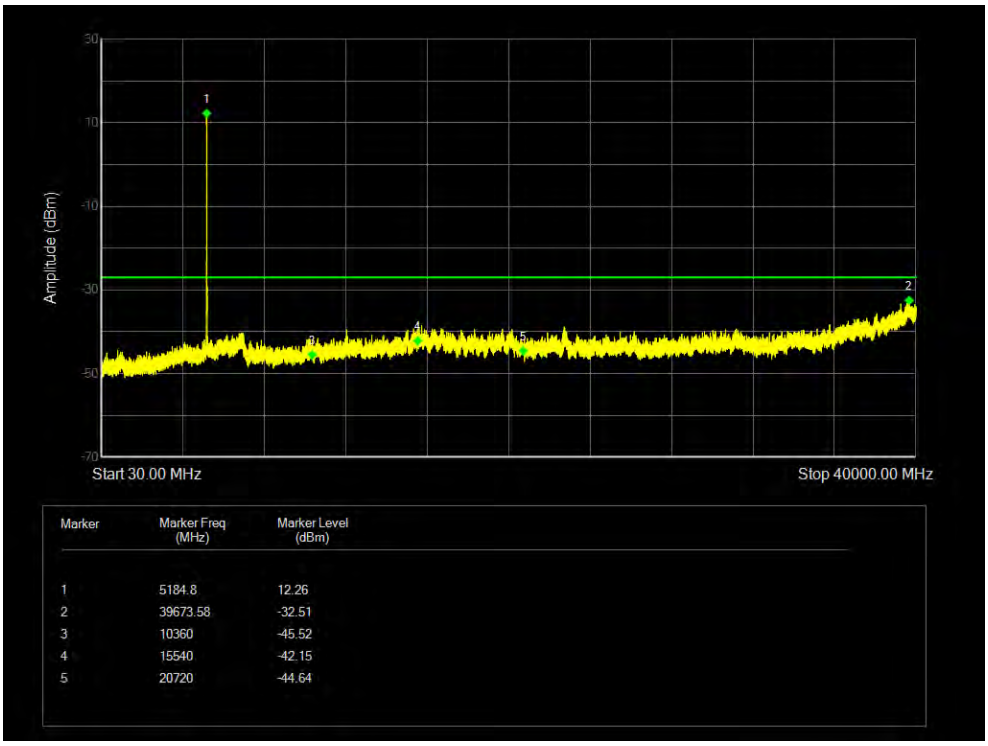
Tx. Spurious NVNT 802.11a 5200MHz Ant 1 Emission



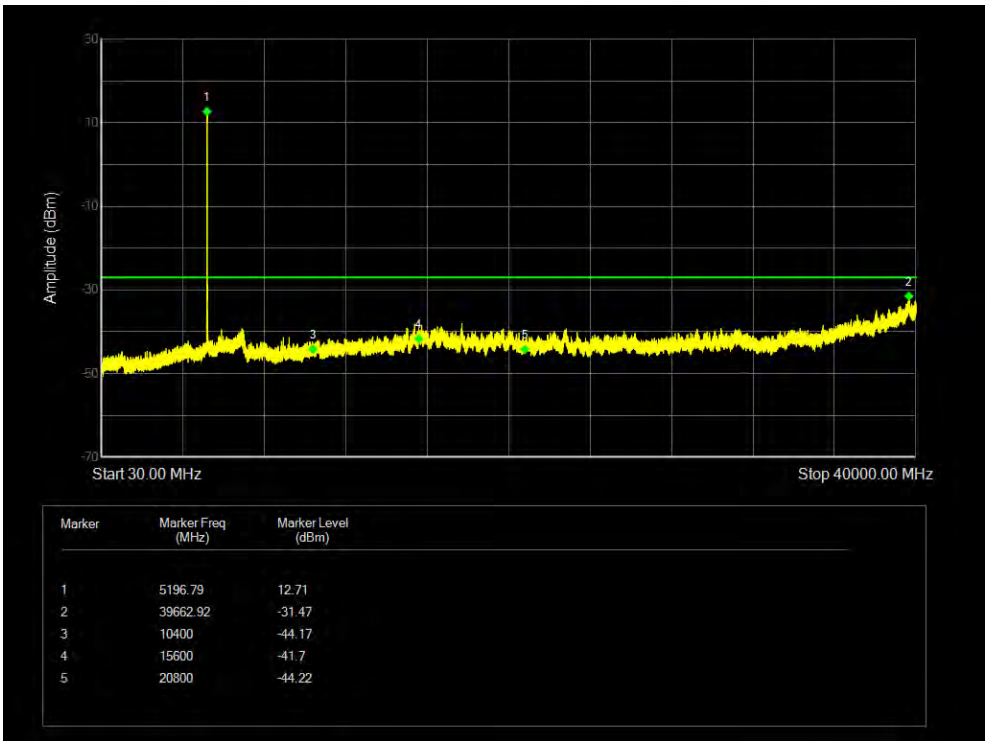
Tx. Spurious NVNT 802.11a 5240MHz Ant 1 Emission



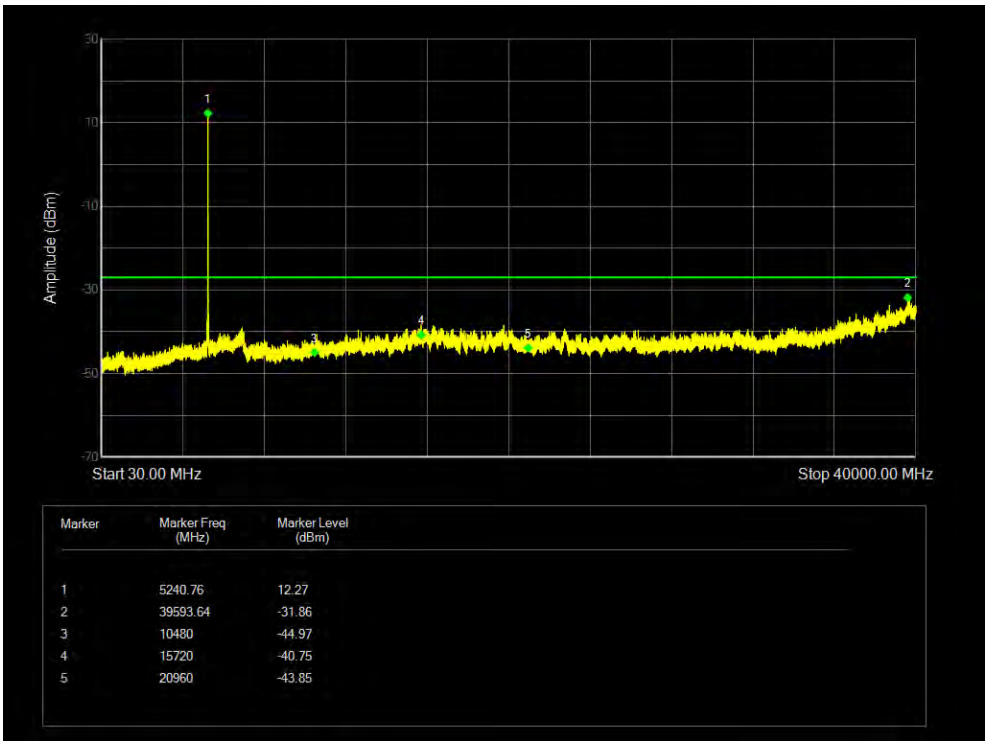
Tx. Spurious NVNT 802.11a 5180MHz Ant 2 Emission



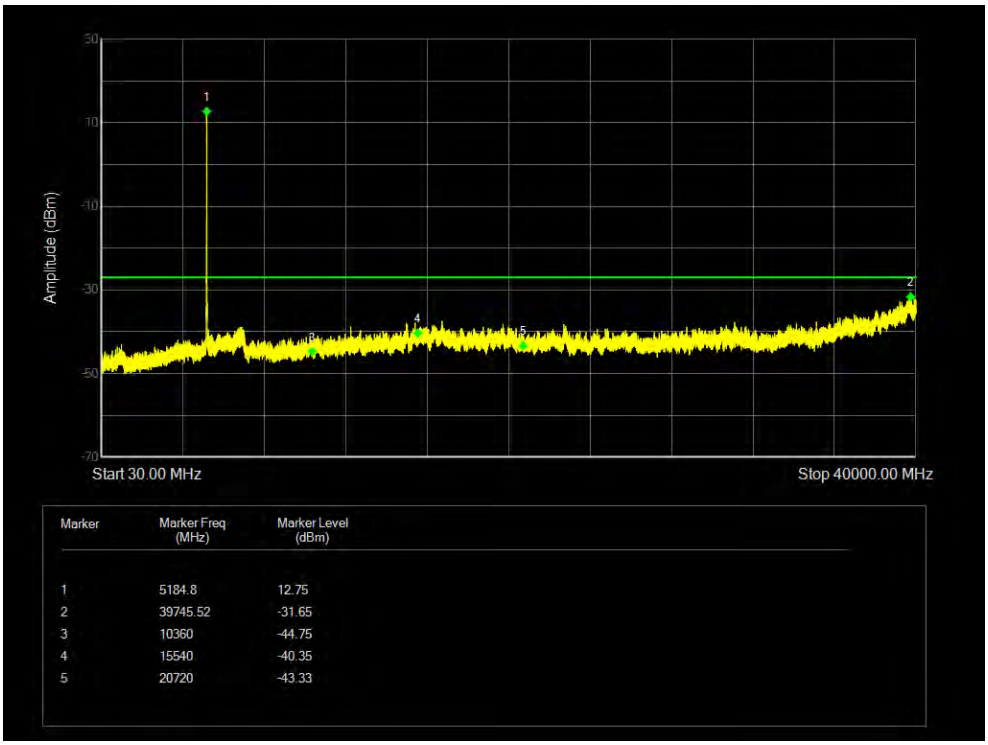
Tx. Spurious NVNT 802.11a 5200MHz Ant 2 Emission



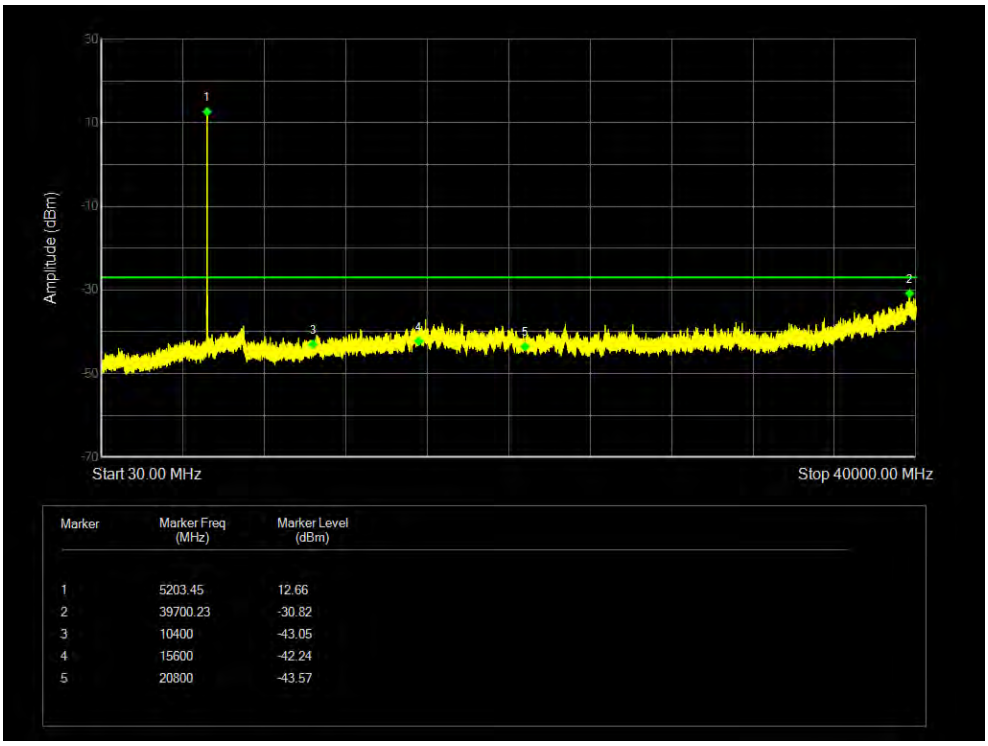
Tx. Spurious NVNT 802.11a 5240MHz Ant 2 Emission



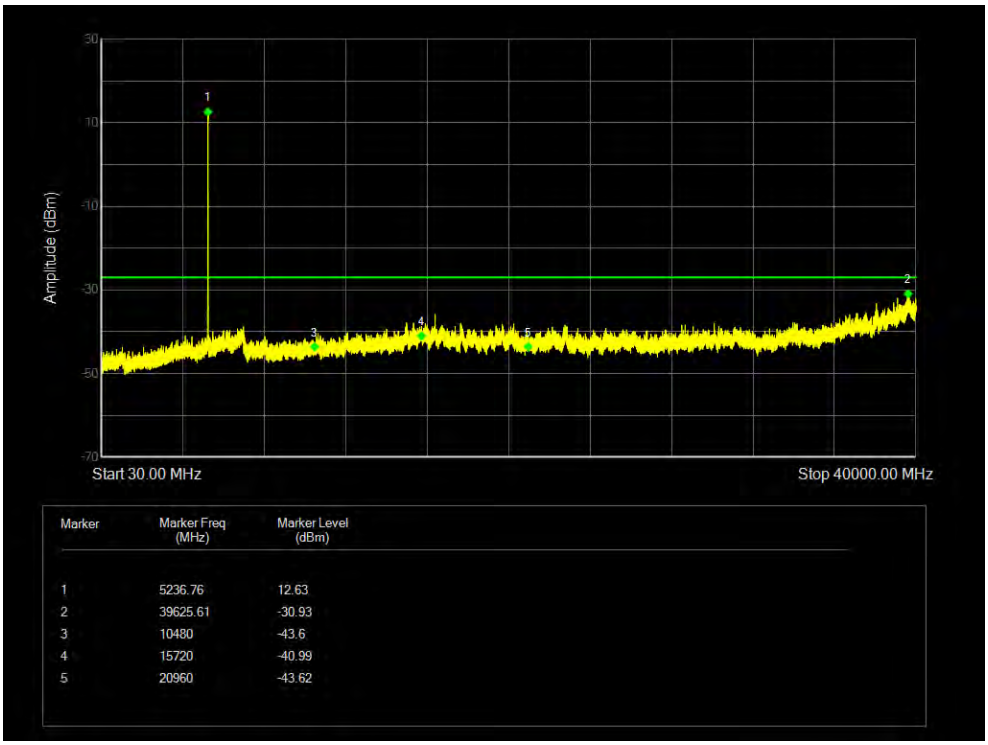
Tx. Spurious NVNT 802.11ac20 5180MHz Ant 1 Emission



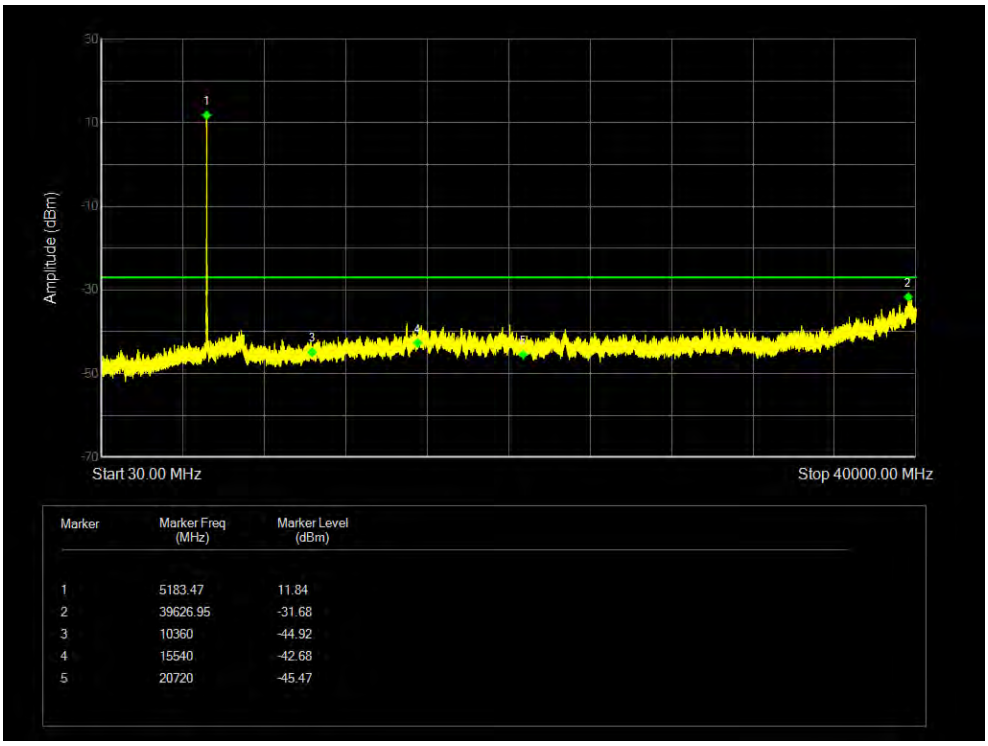
Tx. Spurious NVNT 802.11ac20 5200MHz Ant 1 Emission



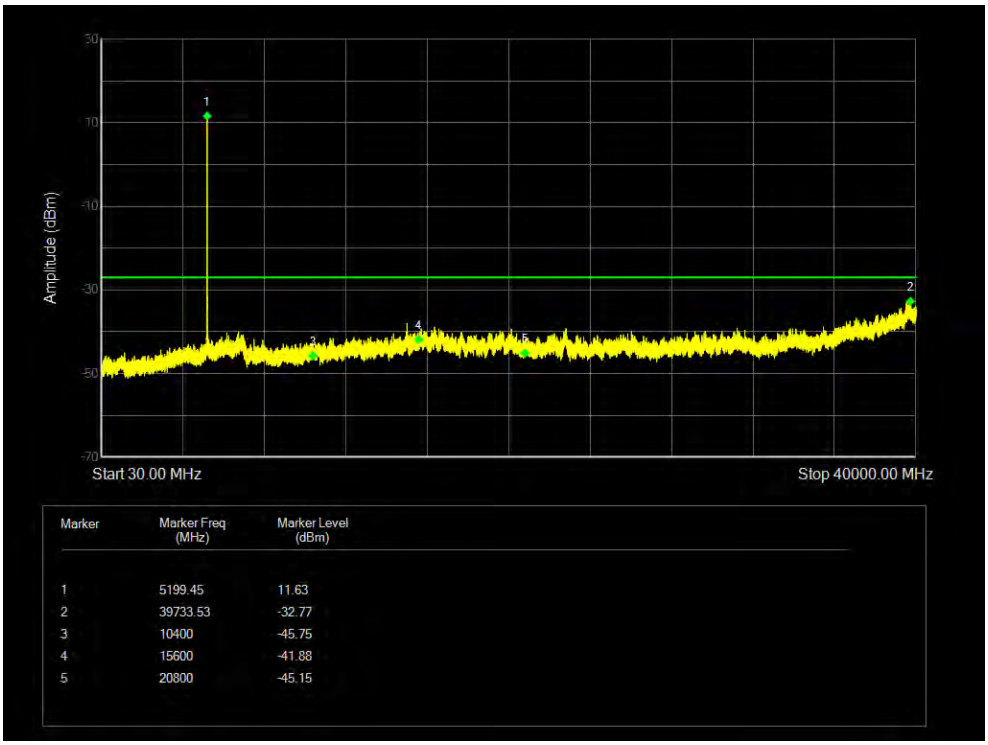
Tx. Spurious NVNT 802.11ac20 5240MHz Ant 1 Emission



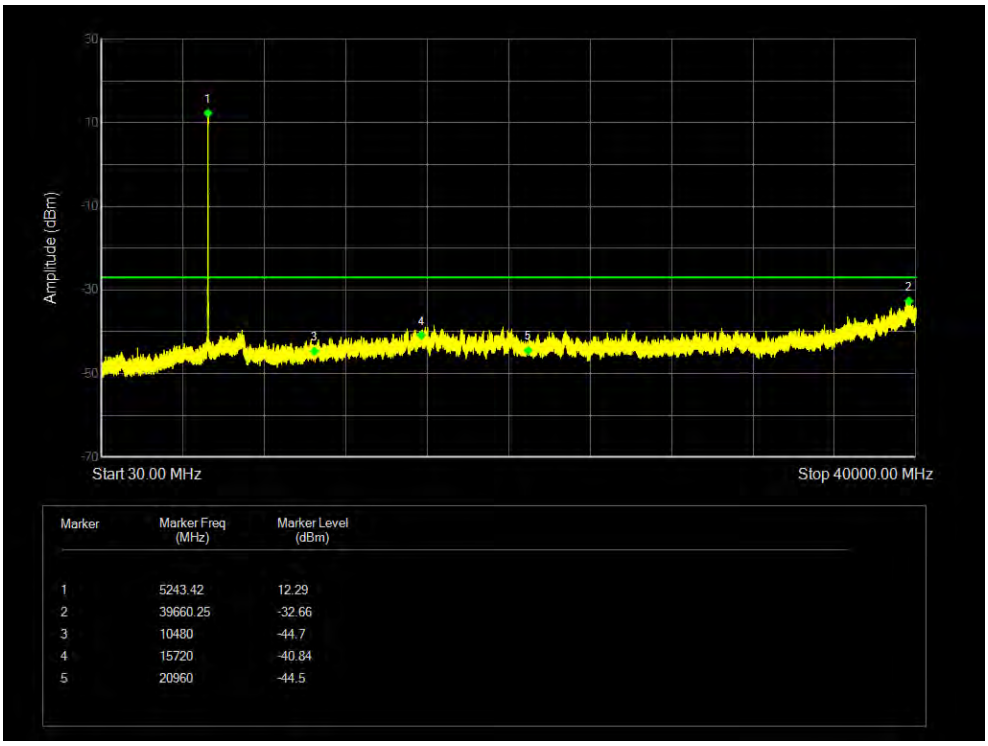
Tx. Spurious NVNT 802.11ac20 5180MHz Ant 2 Emission



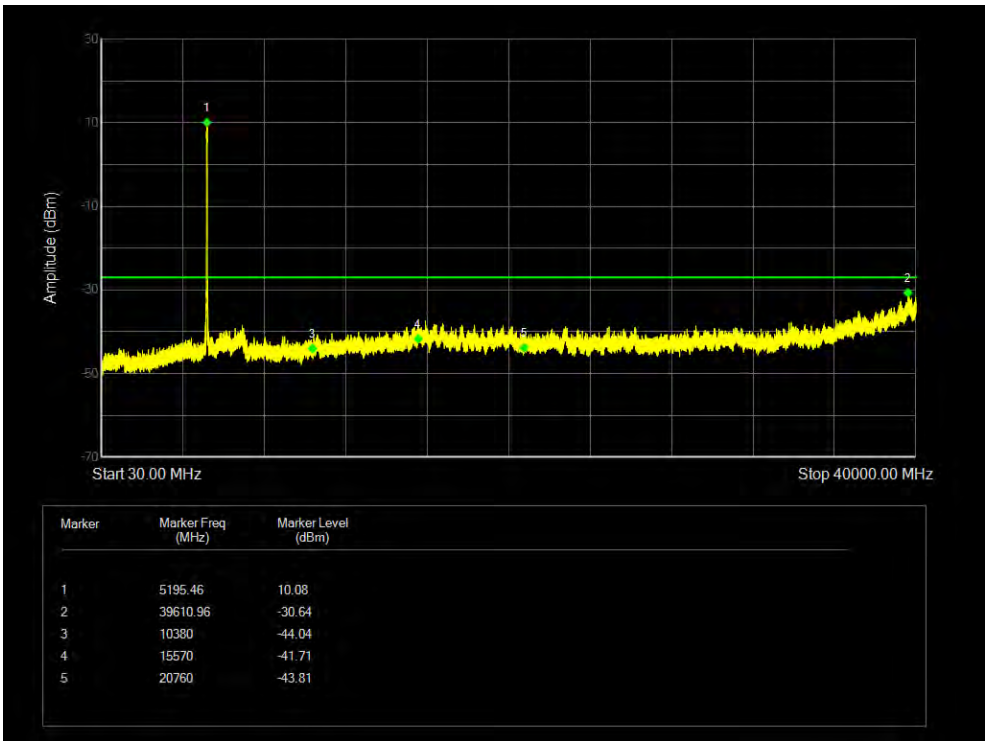
Tx. Spurious NVNT 802.11ac20 5200MHz Ant 2 Emission



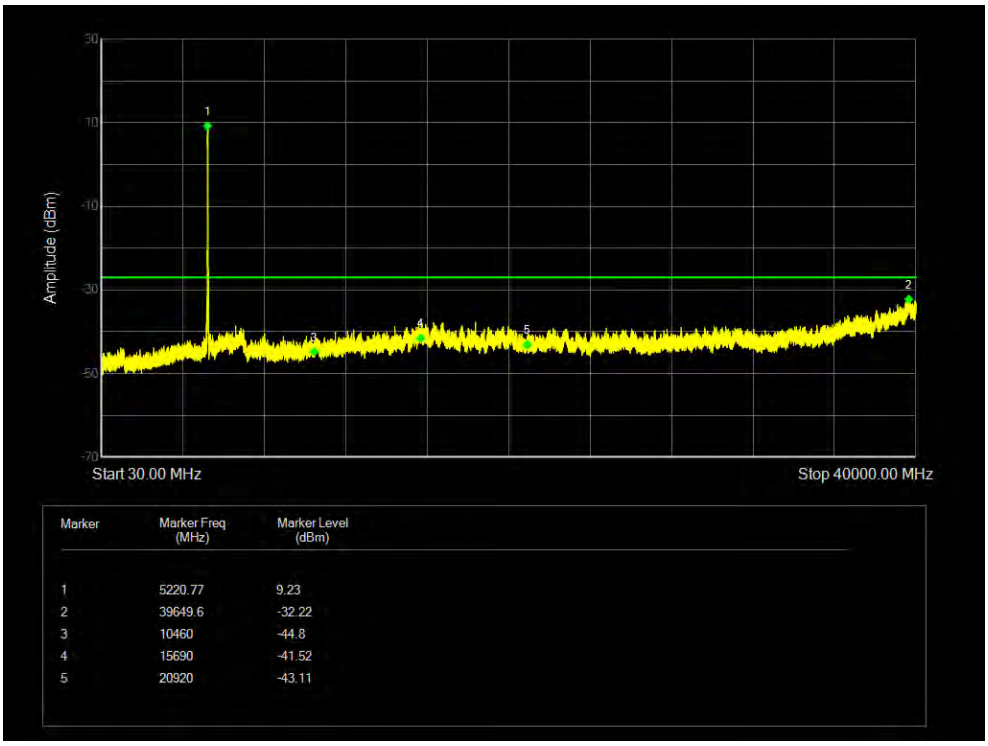
Tx. Spurious NVNT 802.11ac20 5240MHz Ant 2 Emission



Tx. Spurious NVNT 802.11ac40 5190MHz Ant 1 Emission



Tx. Spurious NVNT 802.11ac40 5230MHz Ant 1 Emission



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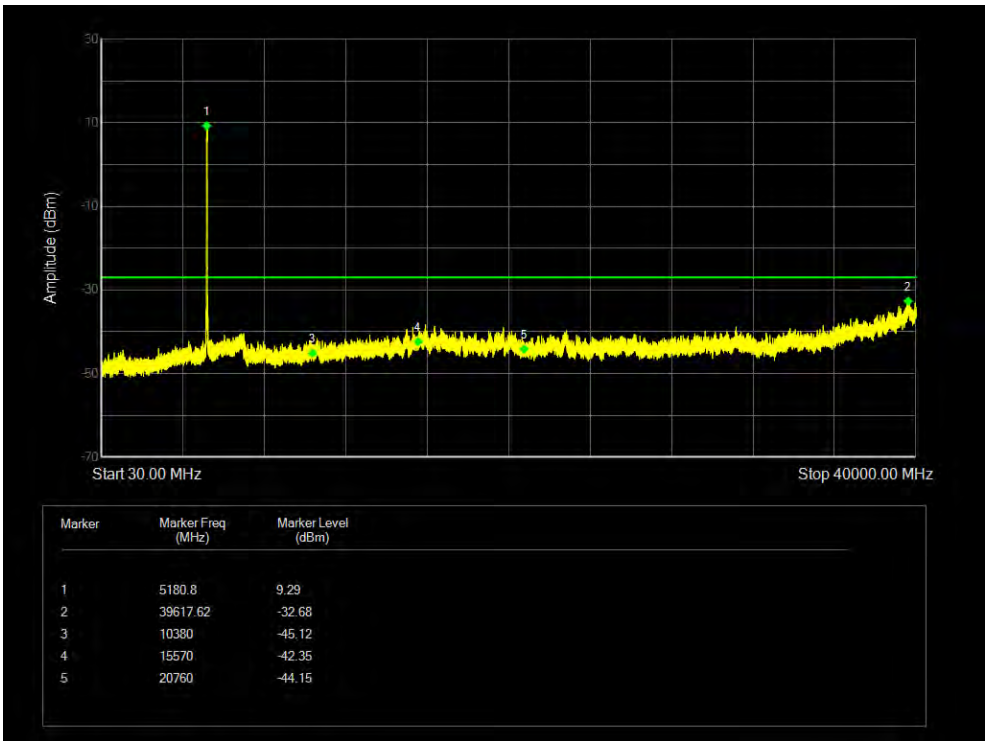
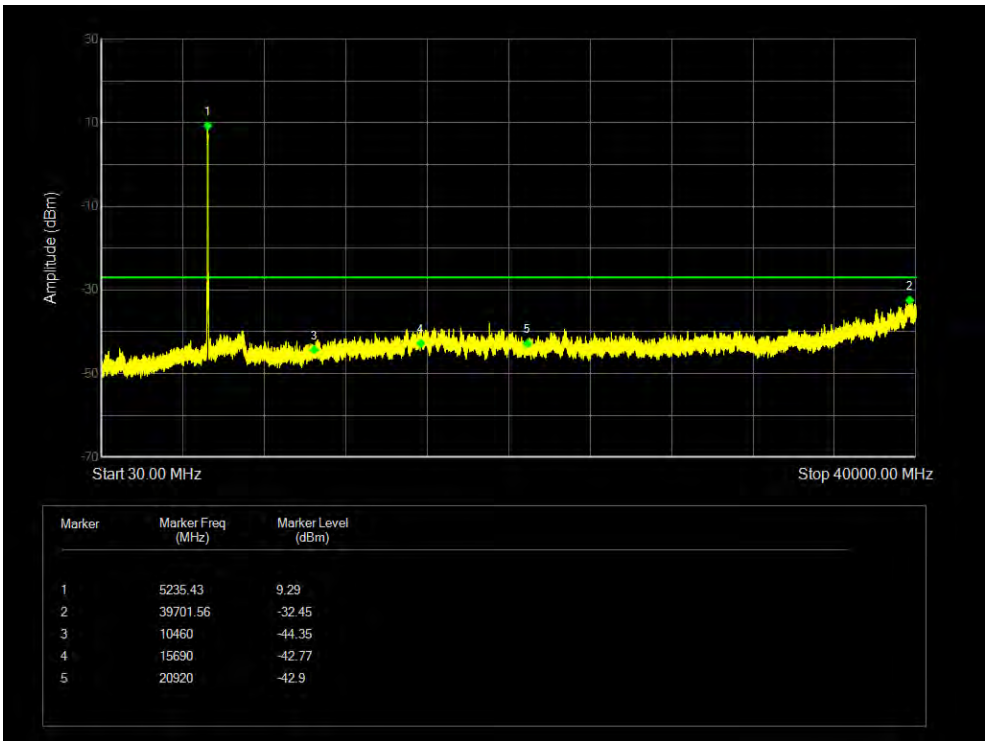
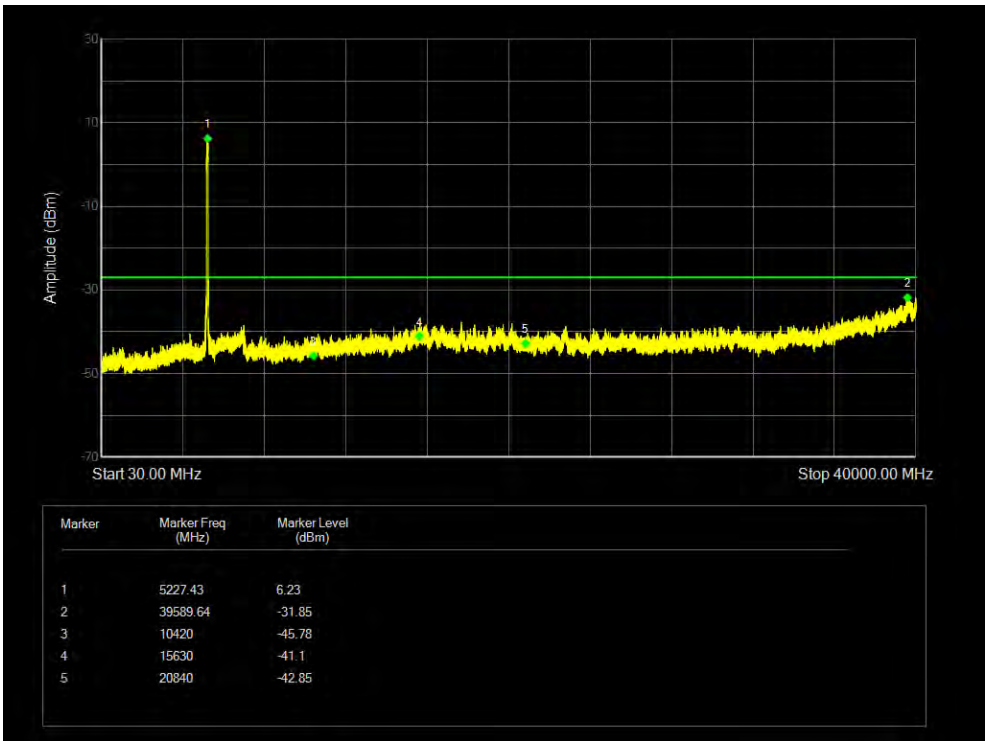


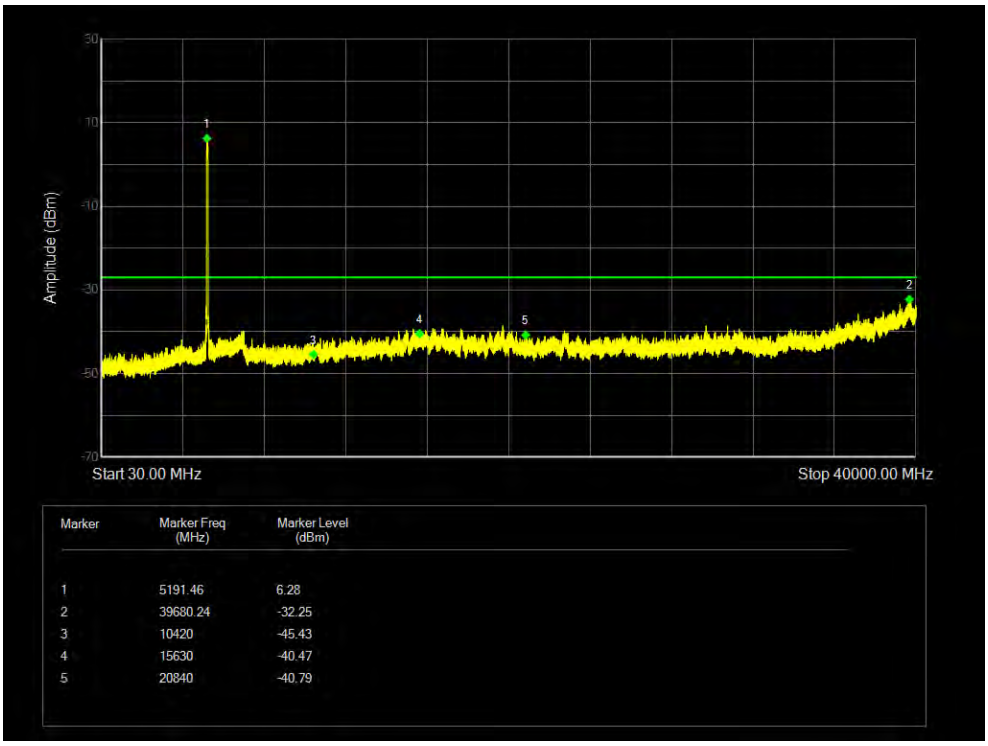
Tx. Spurious NVNT 802.11ac40 5230MHz Ant 2 Emission



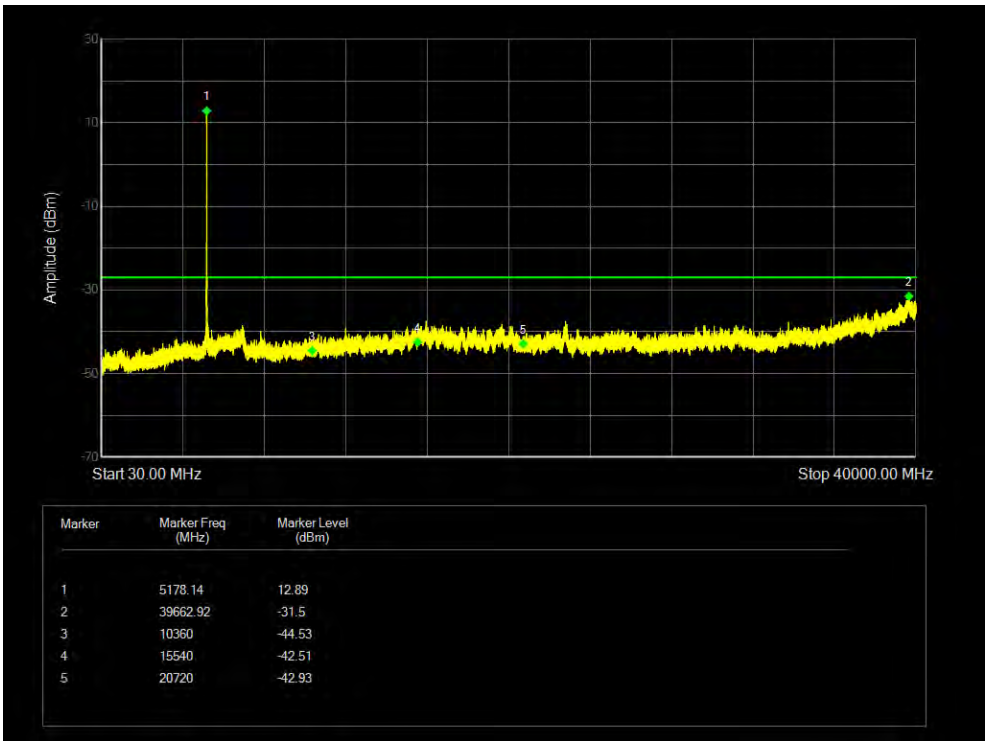
Tx. Spurious NVNT 802.11ac80 5210MHz Ant 1 Emission



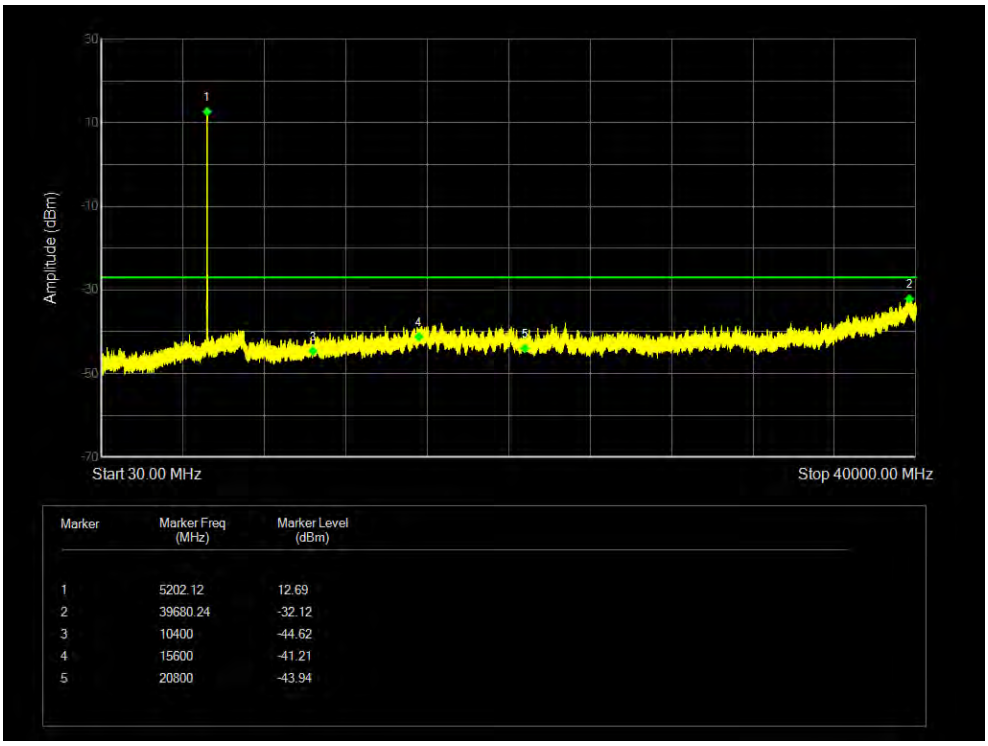
Tx. Spurious NVNT 802.11ac80 5210MHz Ant 2 Emission



Tx. Spurious NVNT 802.11n(HT20) 5180MHz Ant 1 Emission



Tx. Spurious NVNT 802.11n(HT20) 5200MHz Ant 1 Emission



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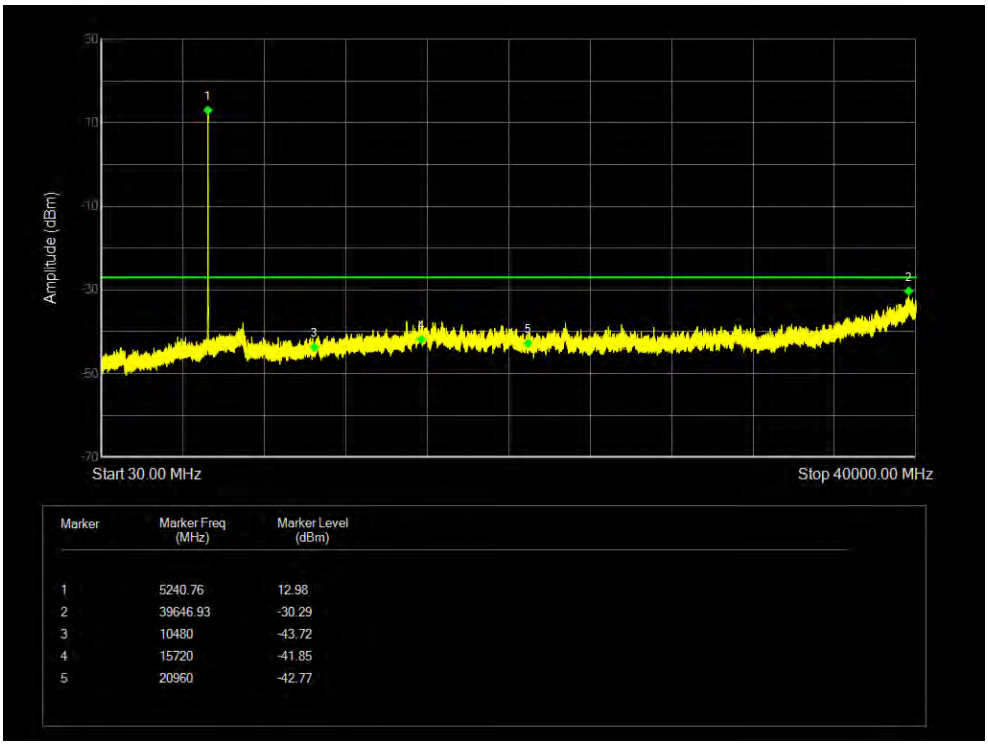

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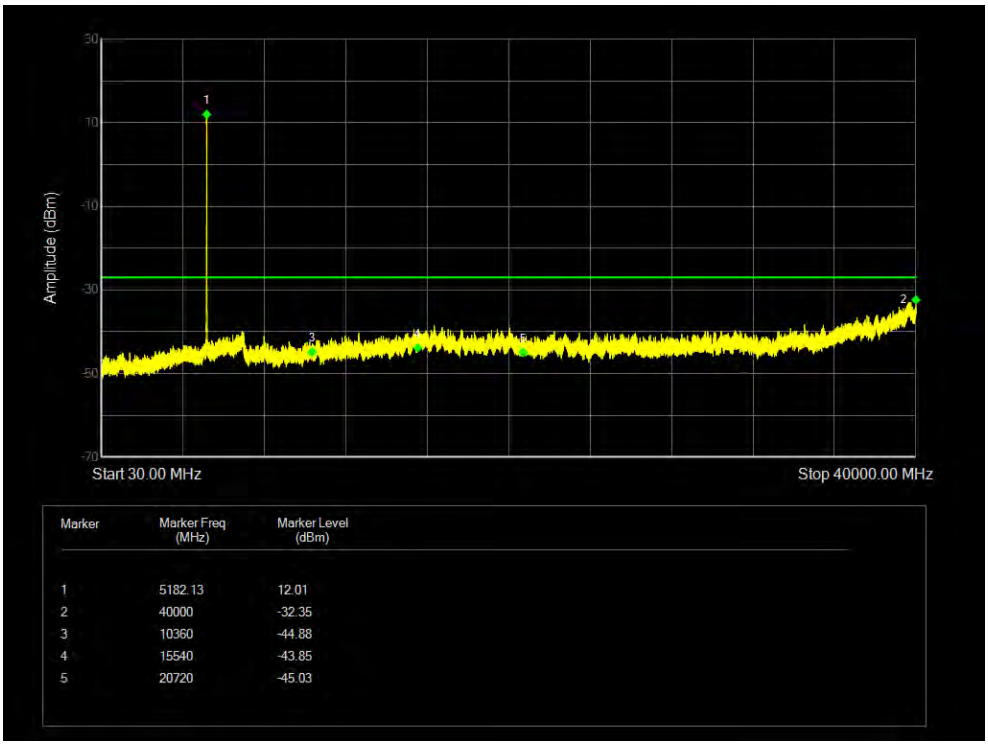

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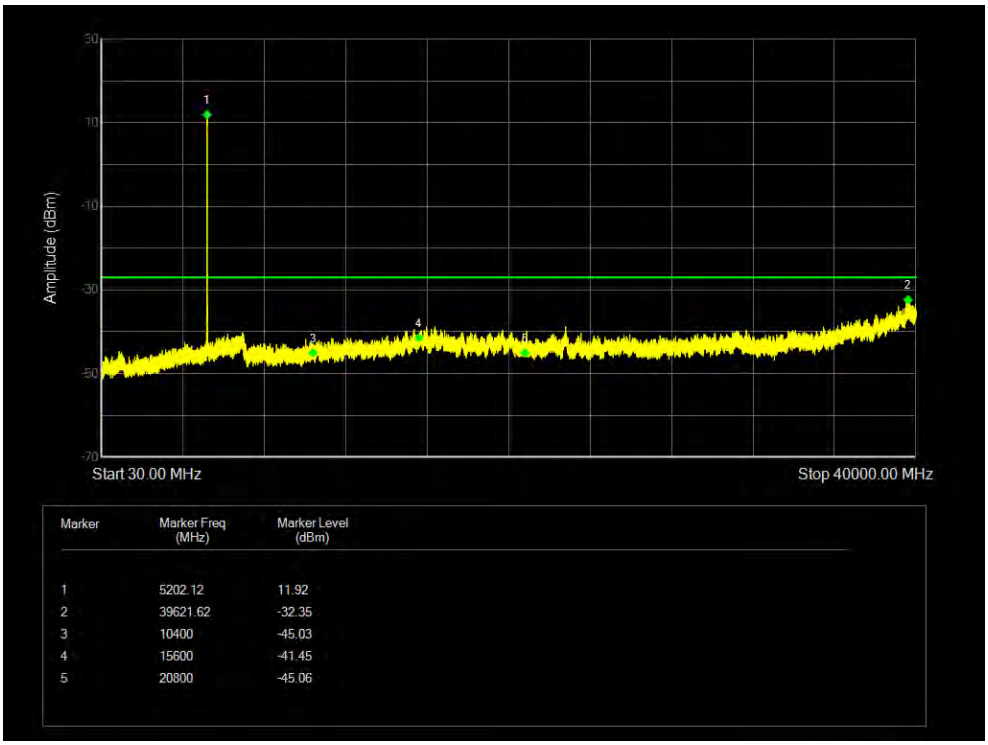

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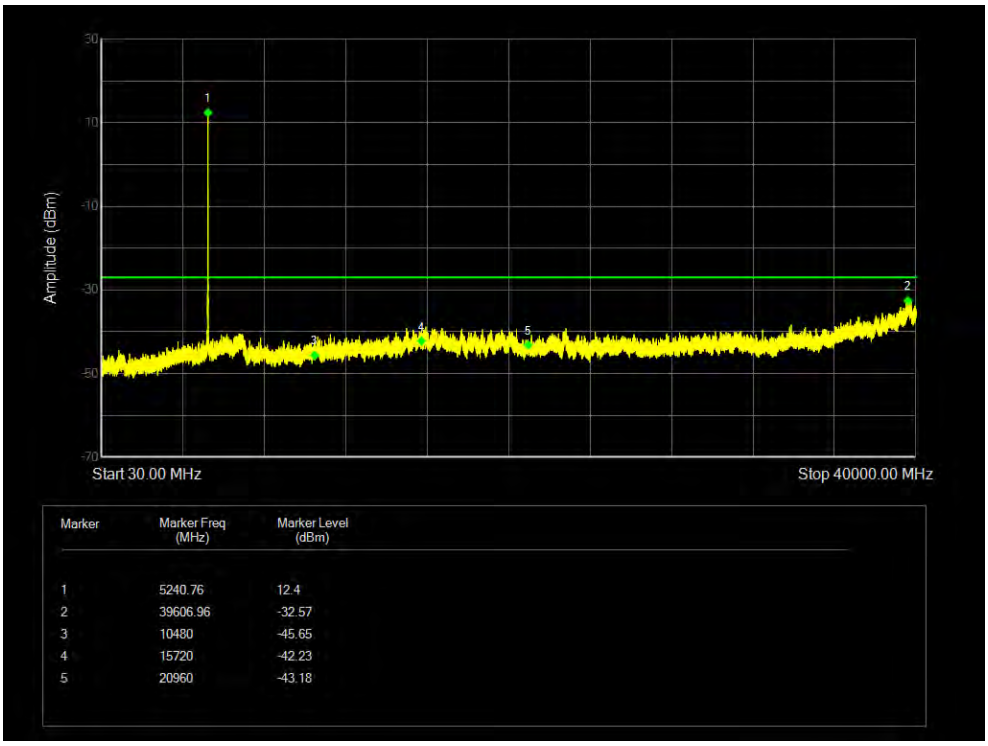
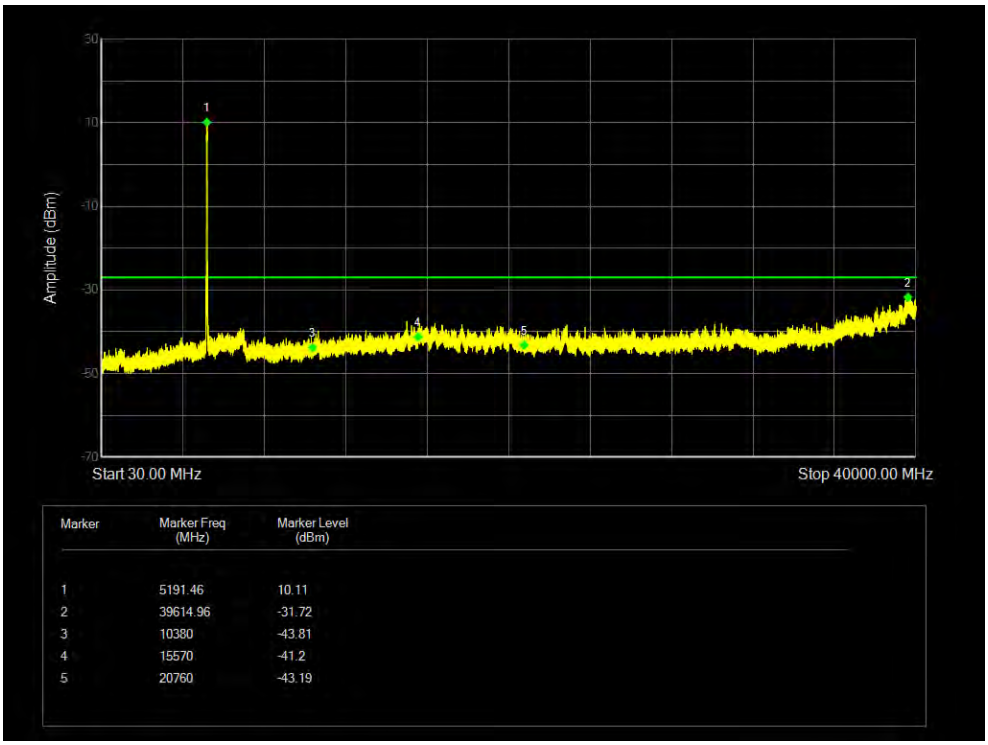
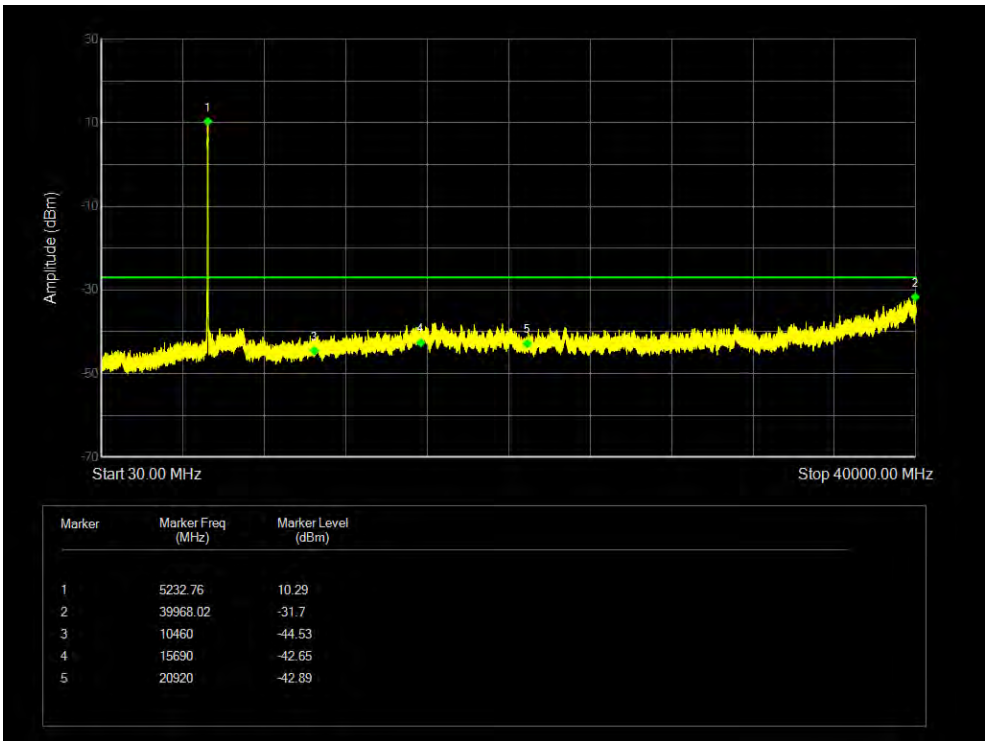


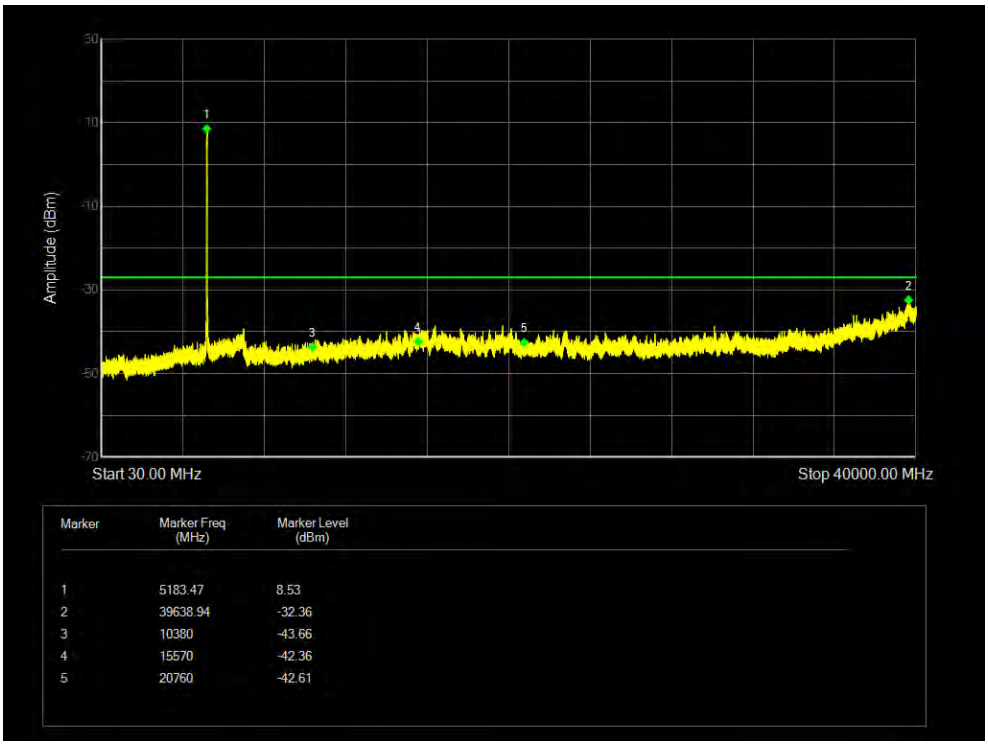
Tx. Spurious NVNT 802.11n(HT40) 5190MHz Ant 1 Emission



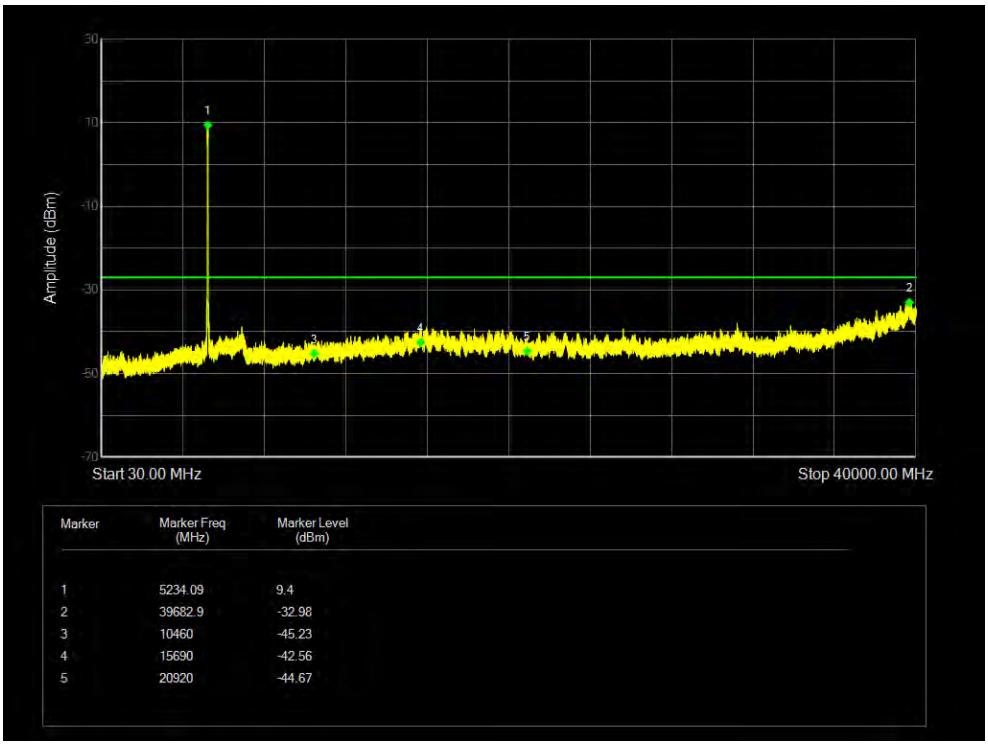
Tx. Spurious NVNT 802.11n(HT40) 5230MHz Ant 1 Emission



Tx. Spurious NVNT 802.11n(HT40) 5190MHz Ant 2 Emission



Tx. Spurious NVNT 802.11n(HT40) 5230MHz Ant 2 Emission

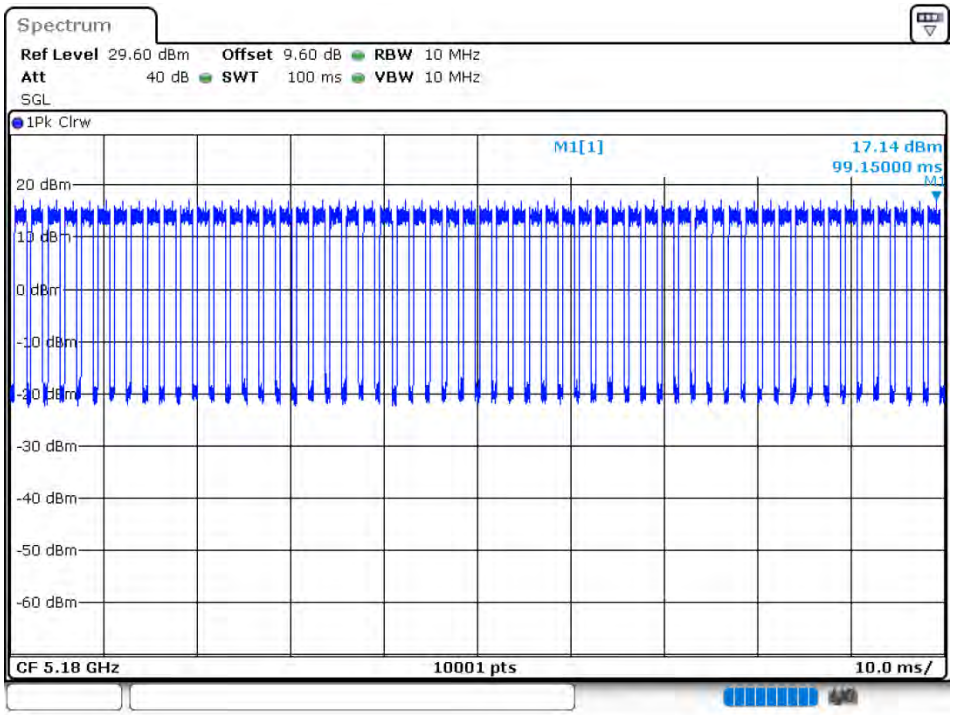


5.2G MIMO

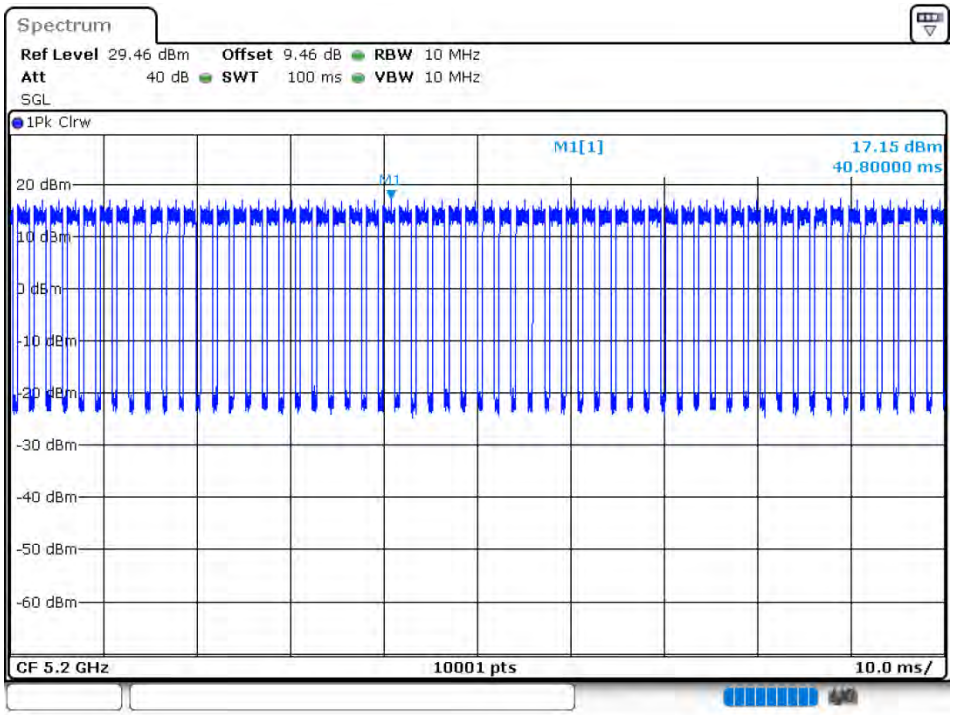
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11ac20	5180	100	0
NVNT	802.11ac20	5200	100	0
NVNT	802.11ac20	5240	100	0
NVNT	802.11ac40	5190	100	0
NVNT	802.11ac40	5230	100	0
NVNT	802.11ac80	5210	100	0
NVNT	802.11n(HT20)	5180	100	0
NVNT	802.11n(HT20)	5200	100	0
NVNT	802.11n(HT20)	5240	100	0
NVNT	802.11n(HT40)	5190	100	0
NVNT	802.11n(HT40)	5230	100	0

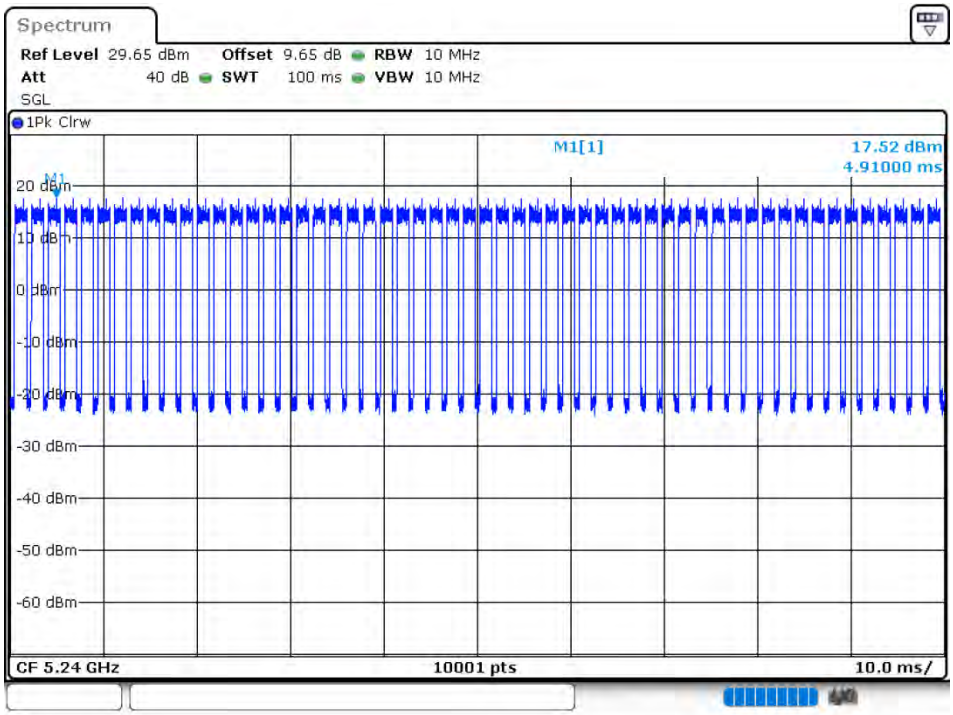
Duty Cycle NVNT 802.11ac20 5180MHz



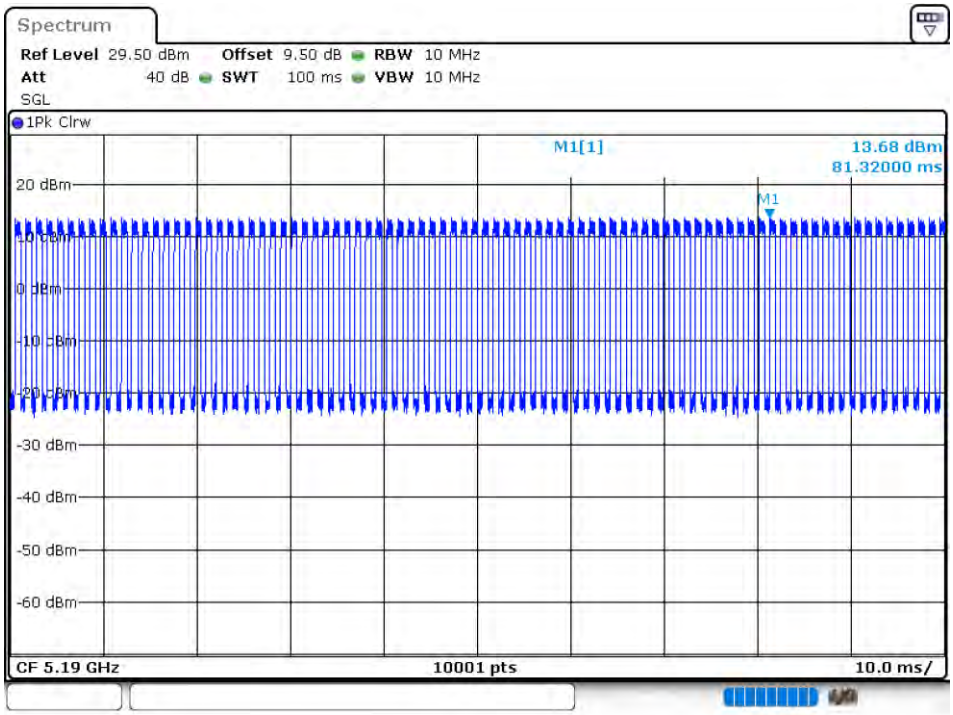
Duty Cycle NVNT 802.11ac20 5200MHz



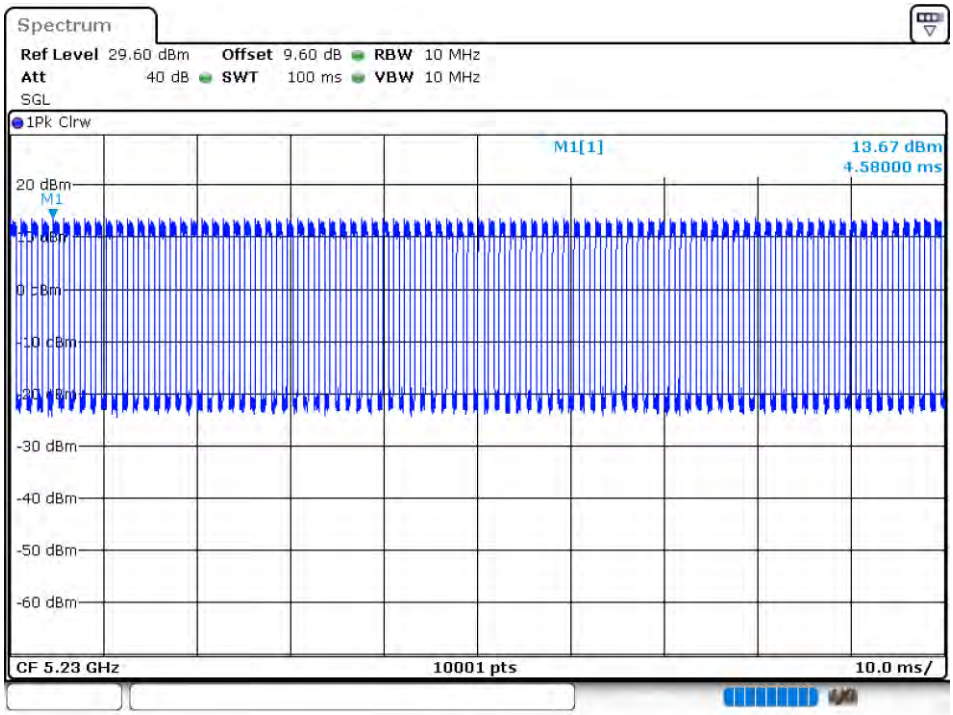
Duty Cycle NVNT 802.11ac20 5240MHz



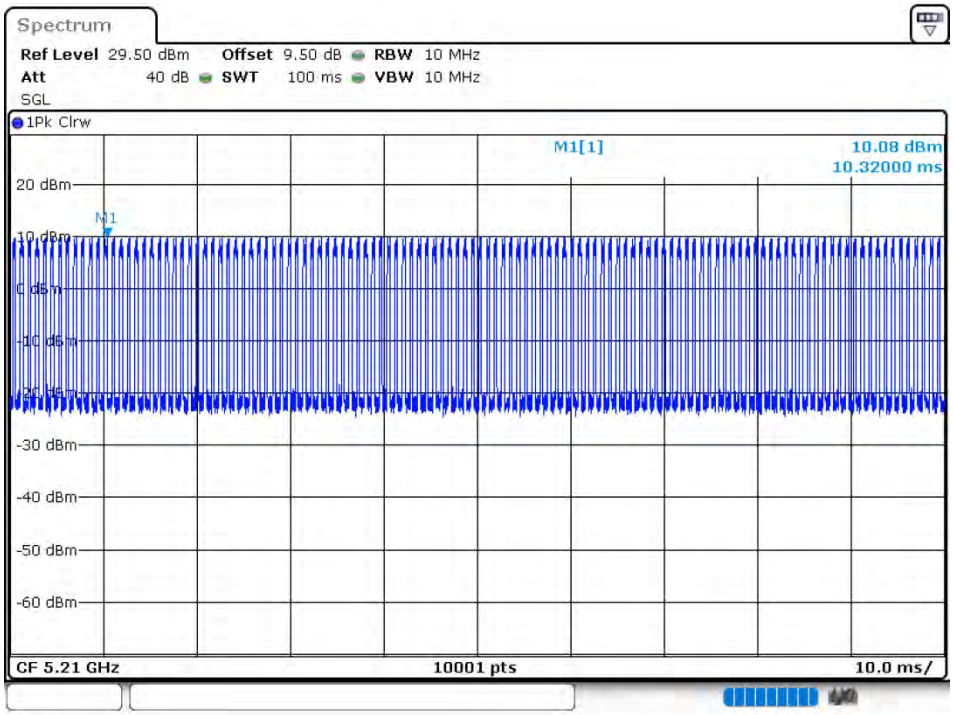
Duty Cycle NVNT 802.11ac40 5190MHz



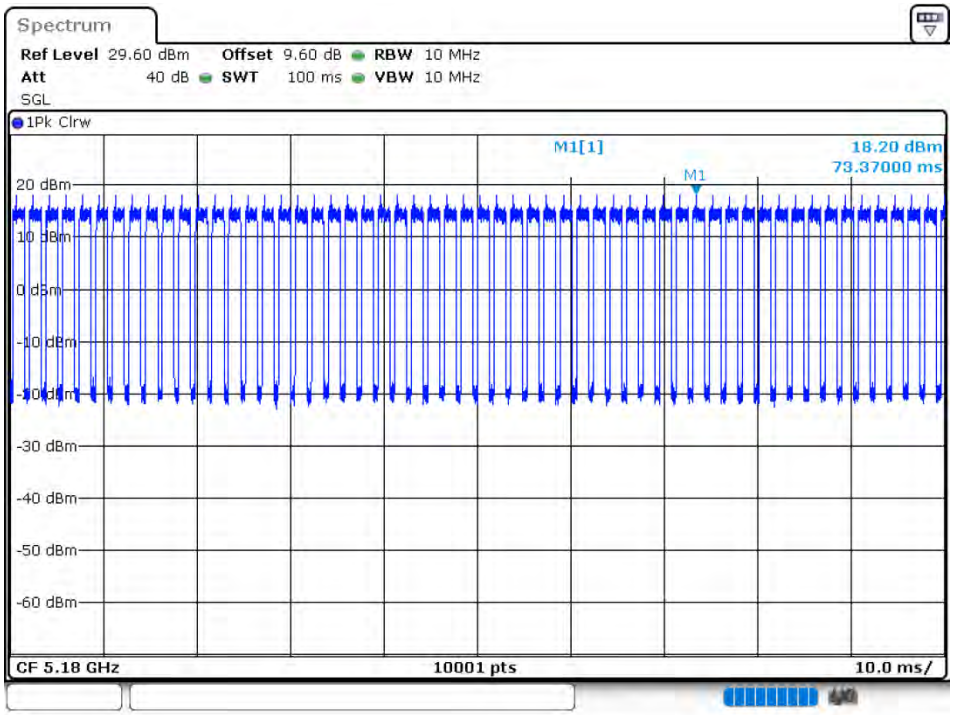
Duty Cycle NVNT 802.11ac40 5230MHz



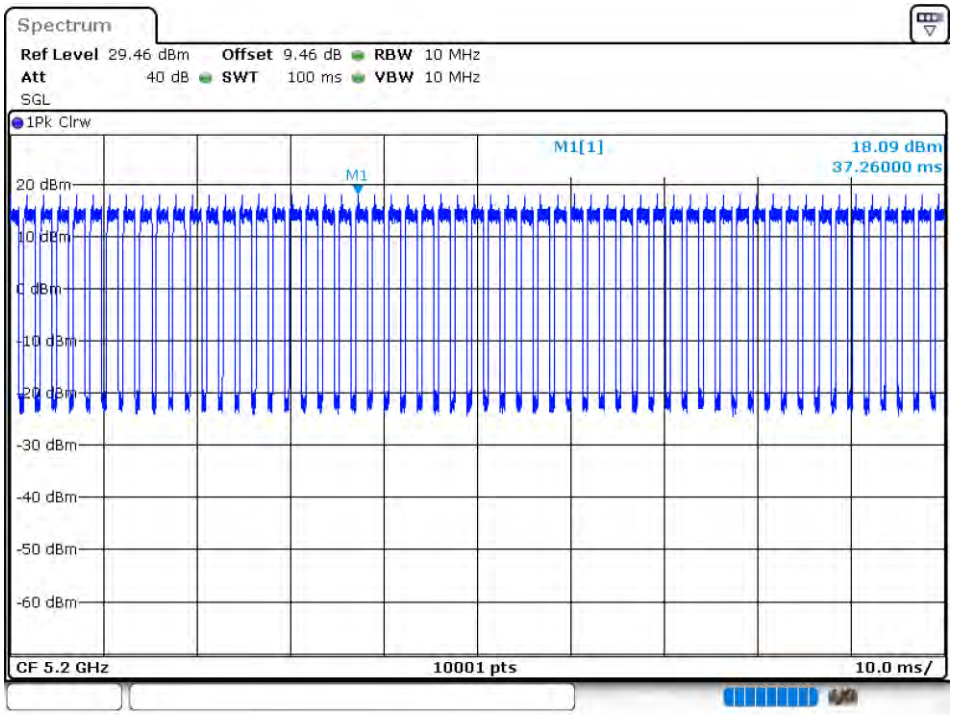
Duty Cycle NVNT 802.11ac80 5210MHz



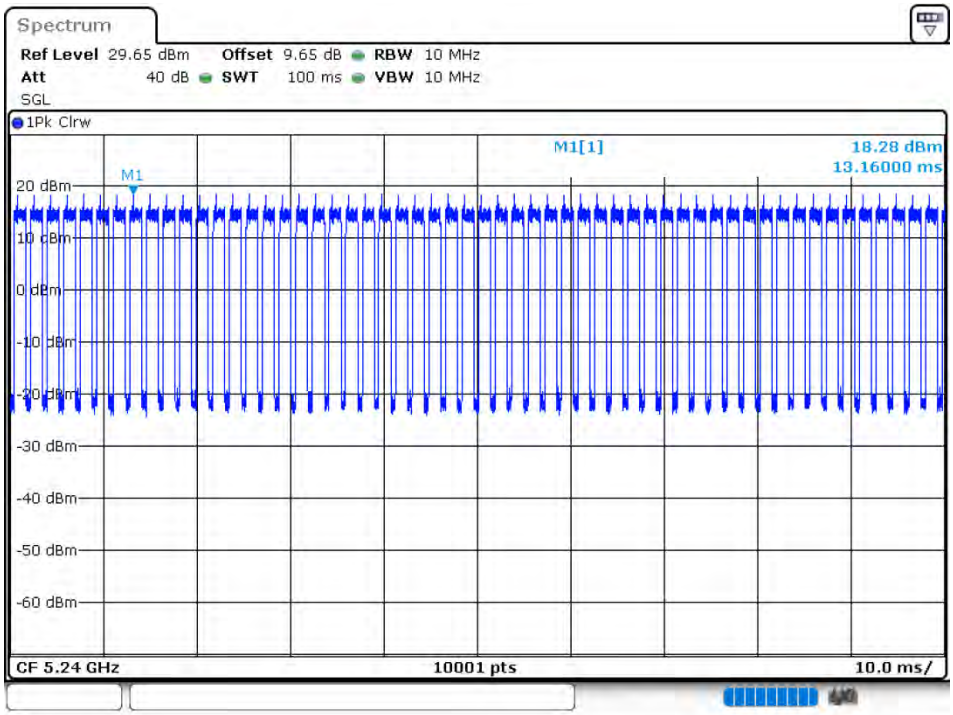
Duty Cycle NVNT 802.11n(HT20) 5180MHz



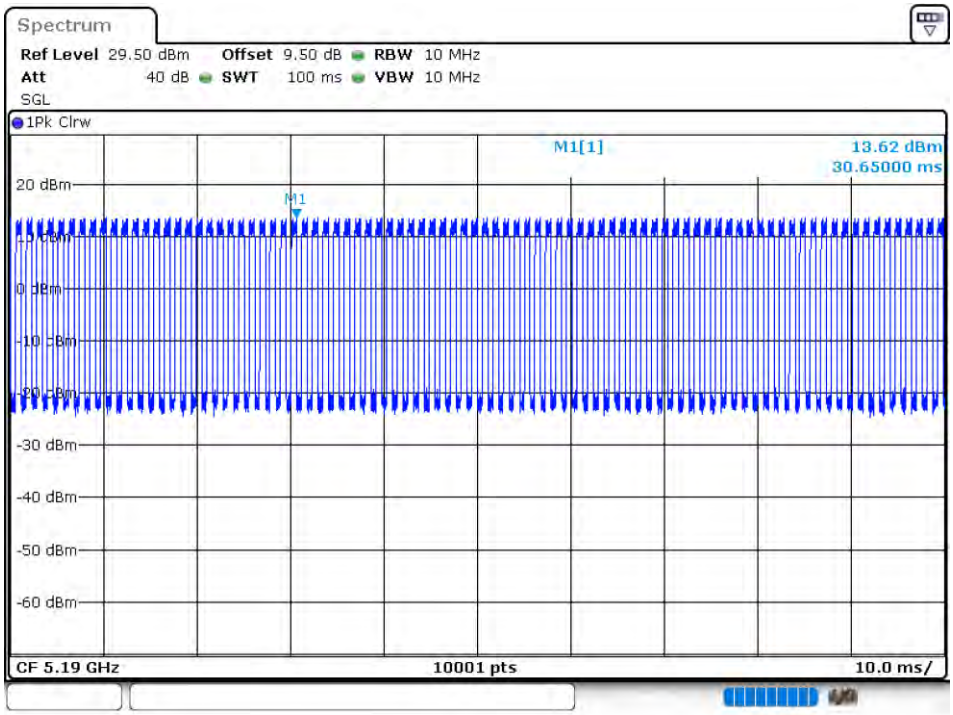
Duty Cycle NVNT 802.11n(HT20) 5200MHz



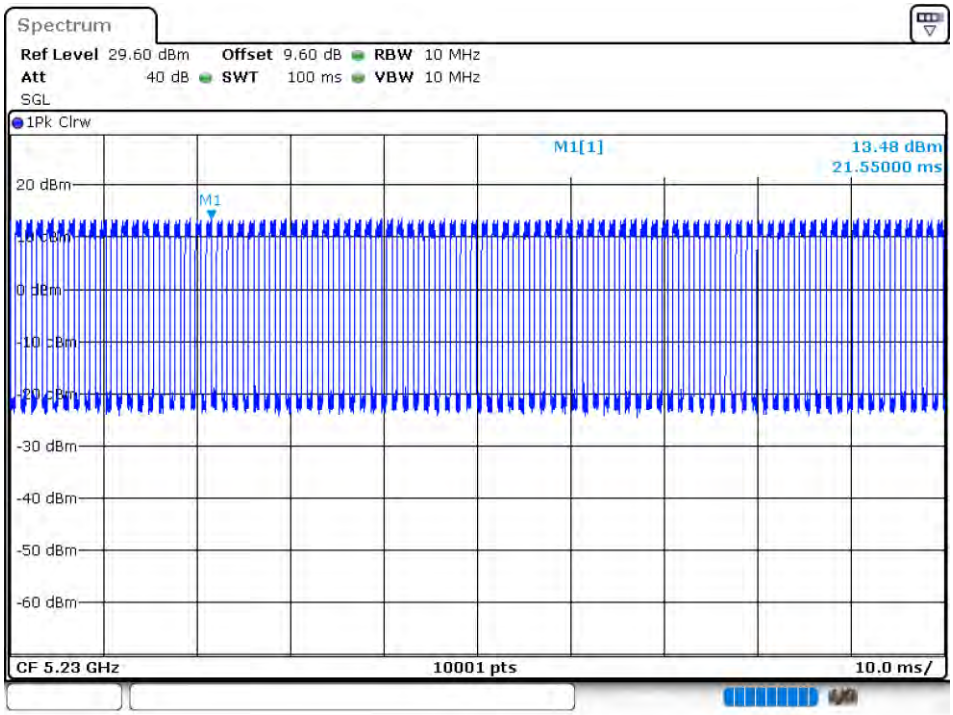
Duty Cycle NVNT 802.11n(HT20) 5240MHz



Duty Cycle NVNT 802.11n(HT40) 5190MHz



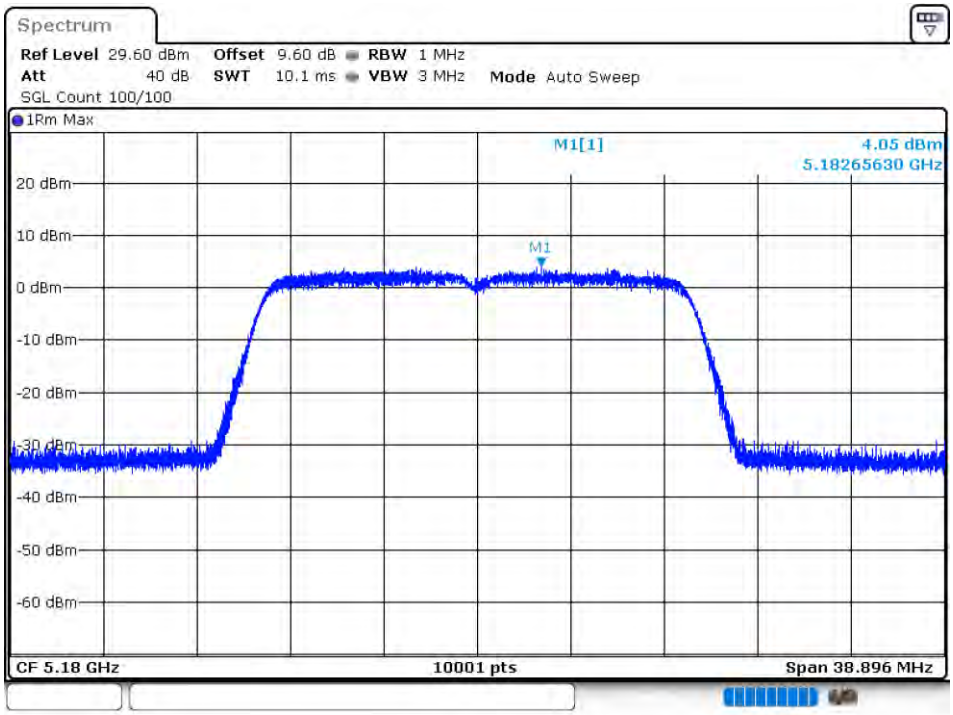
Duty Cycle NVNT 802.11n(HT40) 5230MHz



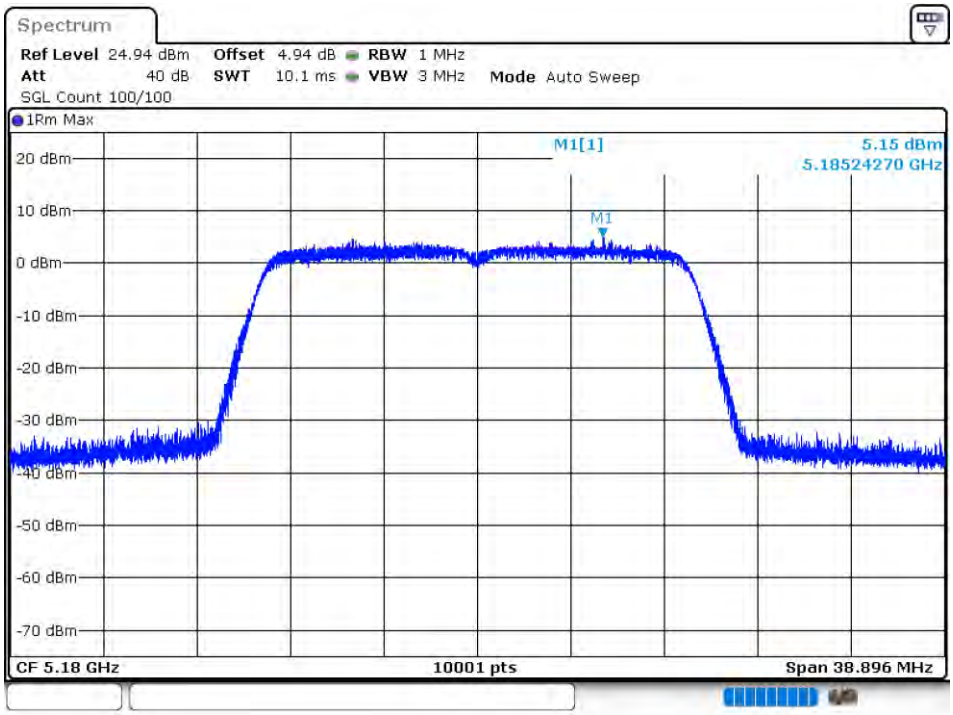
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	802.11ac20	5180	Ant 1	4.052	10.67	Pass
NVNT	802.11ac20	5180	Ant 2	5.145	11	Pass
NVNT	802.11ac20	5180	Sum	7.643	8.11	Pass
NVNT	802.11ac20	5200	Ant 1	3.734	10.67	Pass
NVNT	802.11ac20	5200	Ant 2	5.339	11	Pass
NVNT	802.11ac20	5200	Sum	7.621	8.11	Pass
NVNT	802.11ac20	5240	Ant 1	3.937	10.67	Pass
NVNT	802.11ac20	5240	Ant 2	3.84	11	Pass
NVNT	802.11ac20	5240	Sum	6.899	8.11	Pass
NVNT	802.11ac40	5190	Ant 1	0.484	10.67	Pass
NVNT	802.11ac40	5190	Ant 2	1.976	11	Pass
NVNT	802.11ac40	5190	Sum	4.304	8.11	Pass
NVNT	802.11ac40	5230	Ant 1	0.495	10.67	Pass
NVNT	802.11ac40	5230	Ant 2	0.178	11	Pass
NVNT	802.11ac40	5230	Sum	3.35	8.11	Pass
NVNT	802.11ac80	5210	Ant 1	-2.298	10.67	Pass
NVNT	802.11ac80	5210	Ant 2	-1.128	11	Pass
NVNT	802.11ac80	5210	Sum	1.337	8.11	Pass
NVNT	802.11n(HT20)	5180	Ant 1	4.225	10.67	Pass
NVNT	802.11n(HT20)	5180	Ant 2	4.689	11	Pass
NVNT	802.11n(HT20)	5180	Sum	7.473	8.11	Pass
NVNT	802.11n(HT20)	5200	Ant 1	3.738	10.67	Pass
NVNT	802.11n(HT20)	5200	Ant 2	4.872	11	Pass
NVNT	802.11n(HT20)	5200	Sum	7.352	8.11	Pass
NVNT	802.11n(HT20)	5240	Ant 1	3.778	10.67	Pass
NVNT	802.11n(HT20)	5240	Ant 2	3.54	11	Pass
NVNT	802.11n(HT20)	5240	Sum	6.671	8.11	Pass
NVNT	802.11n(HT40)	5190	Ant 1	0.56	10.67	Pass
NVNT	802.11n(HT40)	5190	Ant 2	2.067	11	Pass
NVNT	802.11n(HT40)	5190	Sum	4.389	8.11	Pass
NVNT	802.11n(HT40)	5230	Ant 1	0.44	10.67	Pass
NVNT	802.11n(HT40)	5230	Ant 2	1.328	11	Pass
NVNT	802.11n(HT40)	5230	Sum	3.917	8.11	Pass

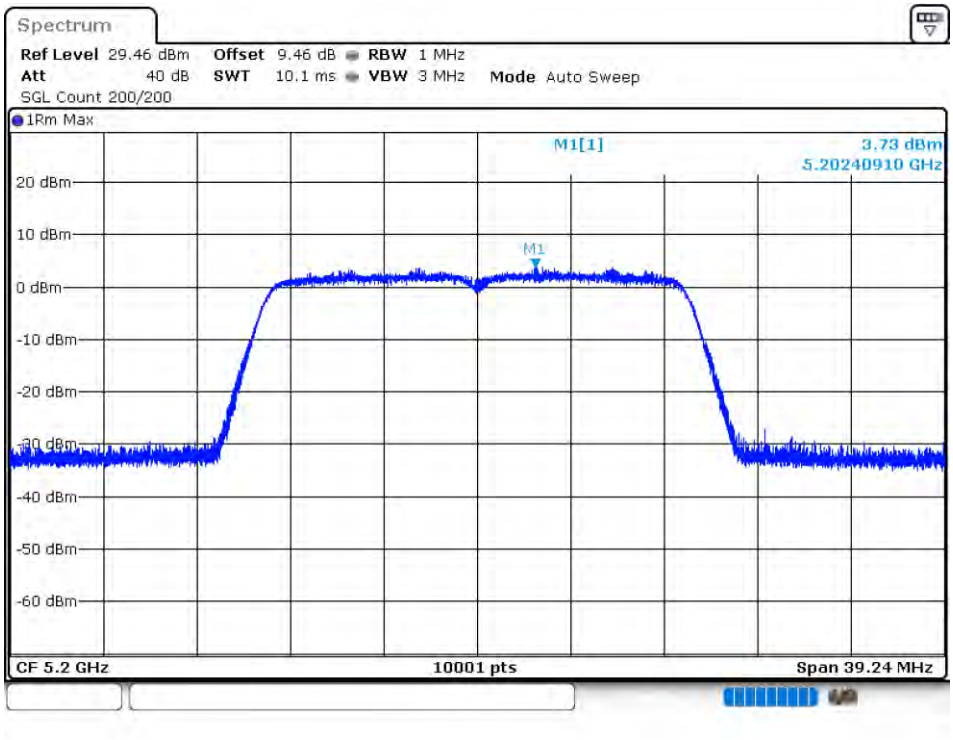
PSD NVNT 802.11ac20 5180MHz Ant1



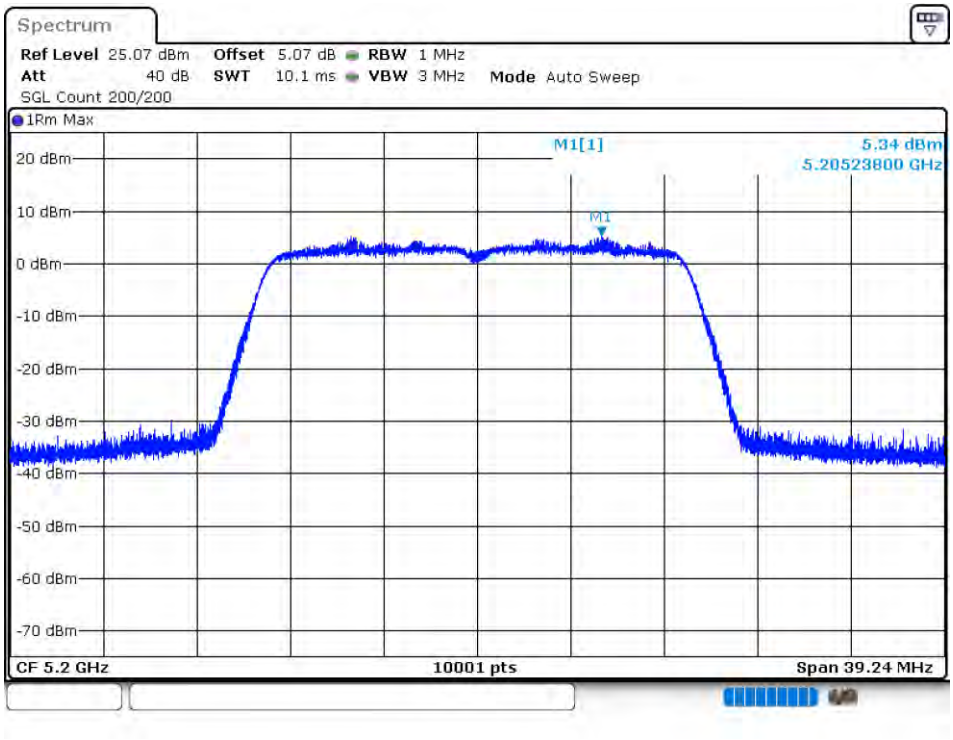
PSD NVNT 802.11ac20 5180MHz Ant2



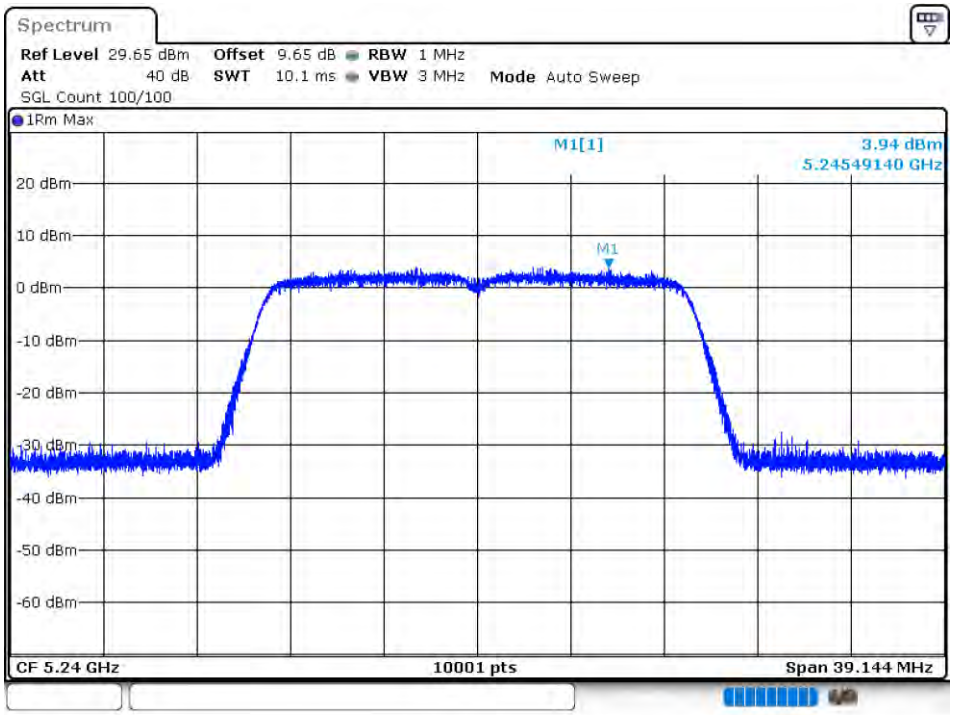
PSD NVNT 802.11ac20 5200MHz Ant1



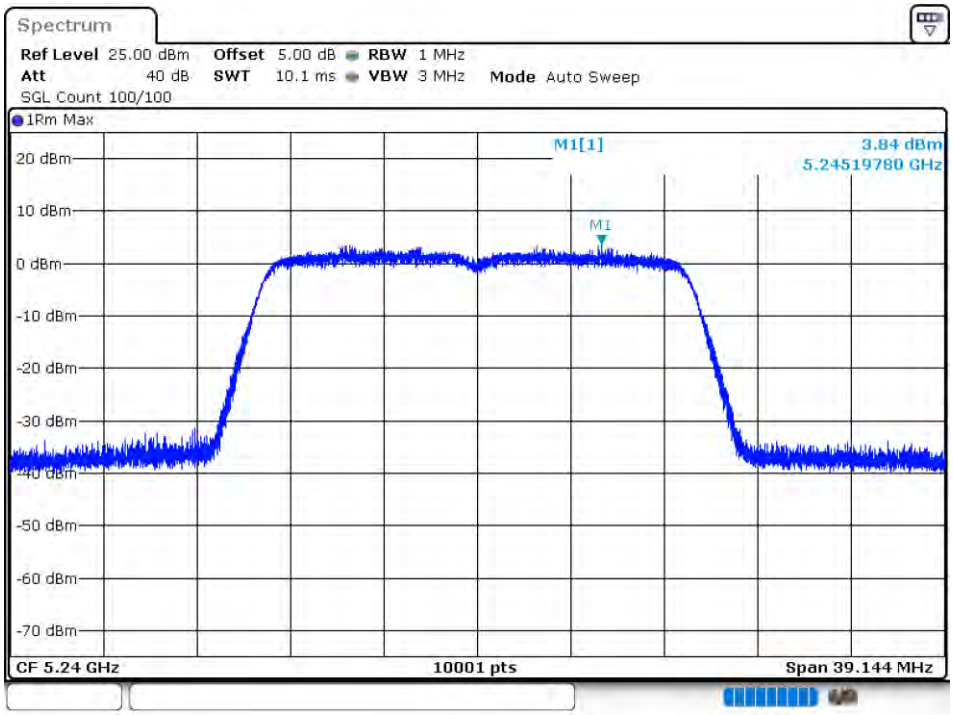
PSD NVNT 802.11ac20 5200MHz Ant2



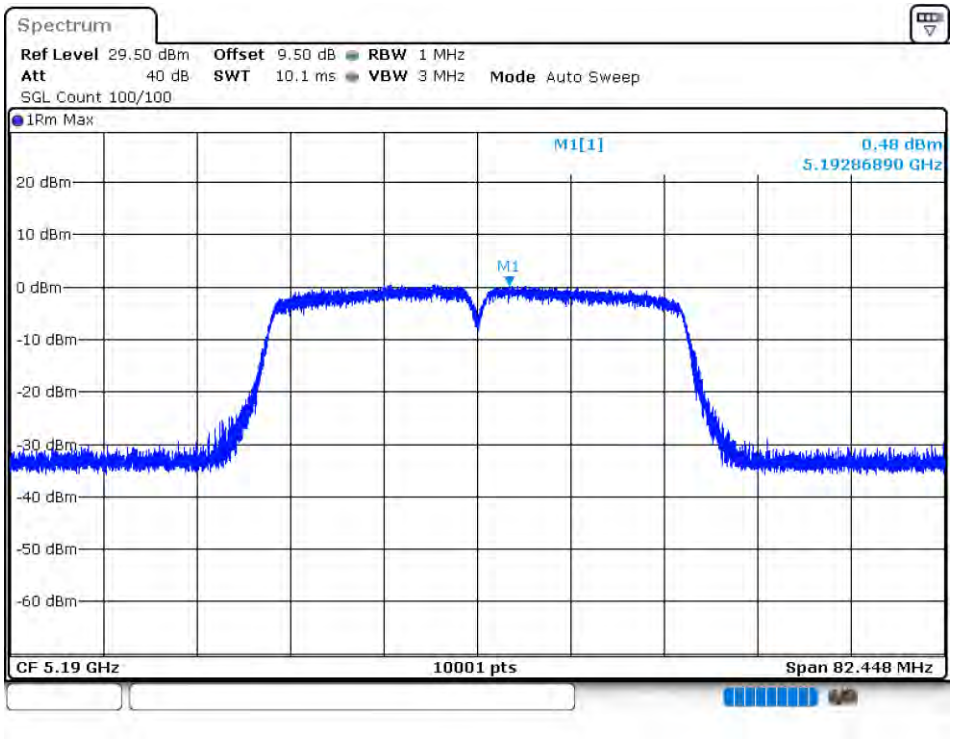
PSD NVNT 802.11ac20 5240MHz Ant1



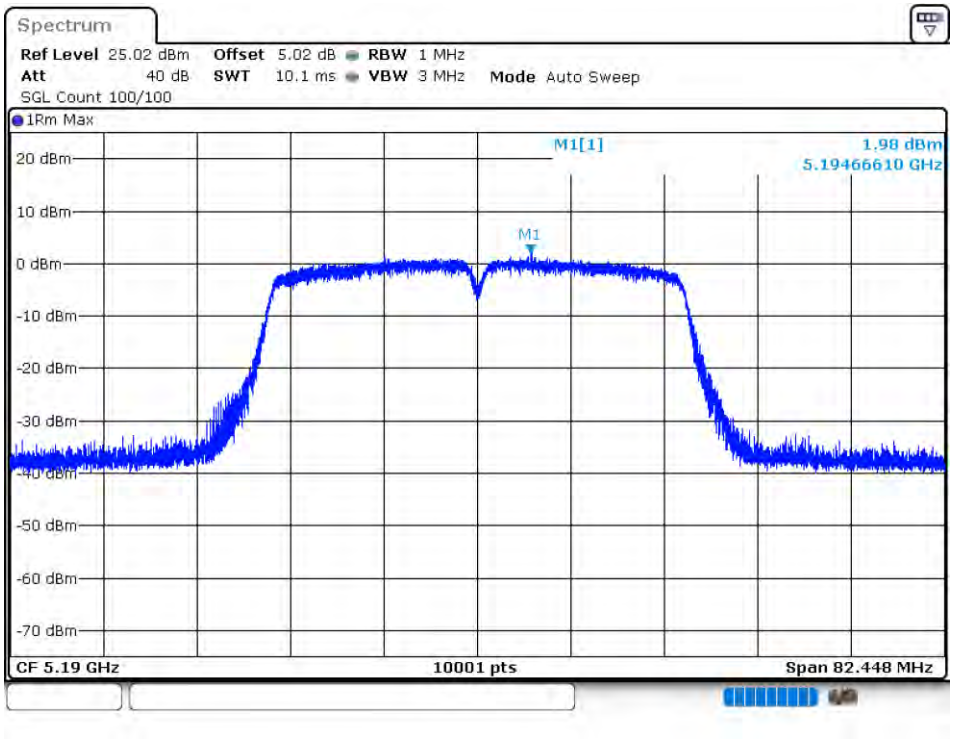
PSD NVNT 802.11ac20 5240MHz Ant2



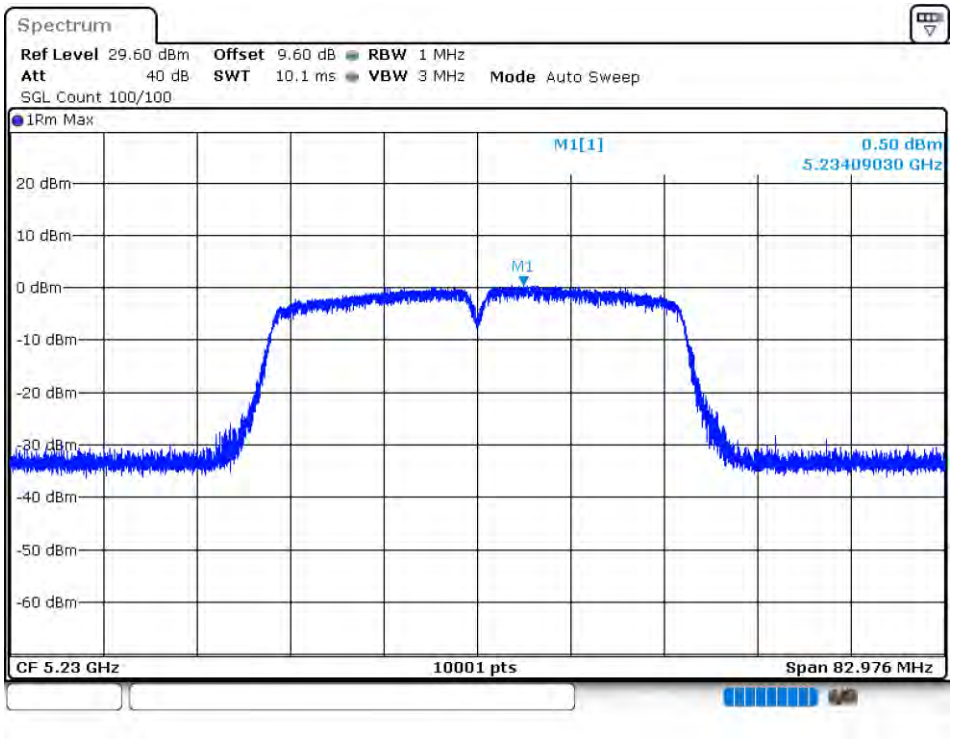
PSD NVNT 802.11ac40 5190MHz Ant1



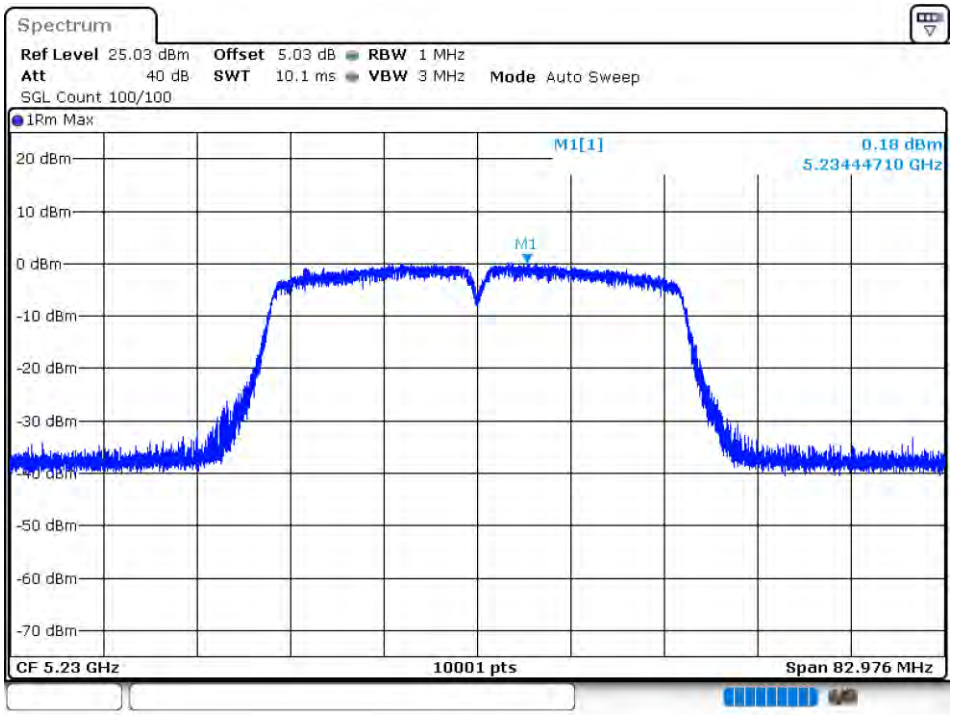
PSD NVNT 802.11ac40 5190MHz Ant2



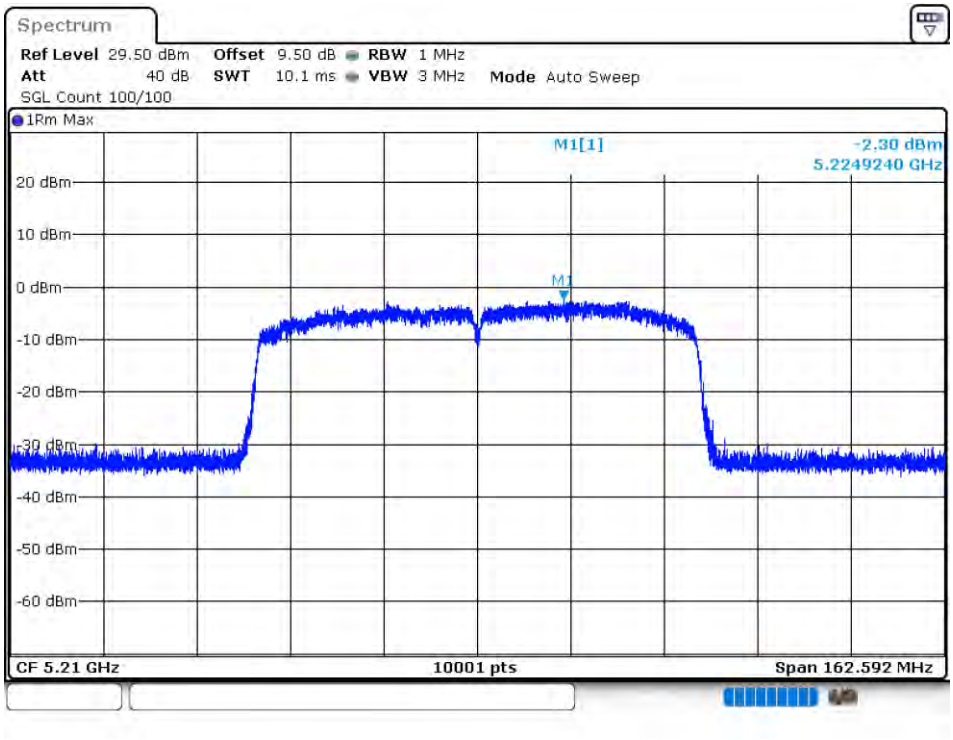
PSD NVNT 802.11ac40 5230MHz Ant1



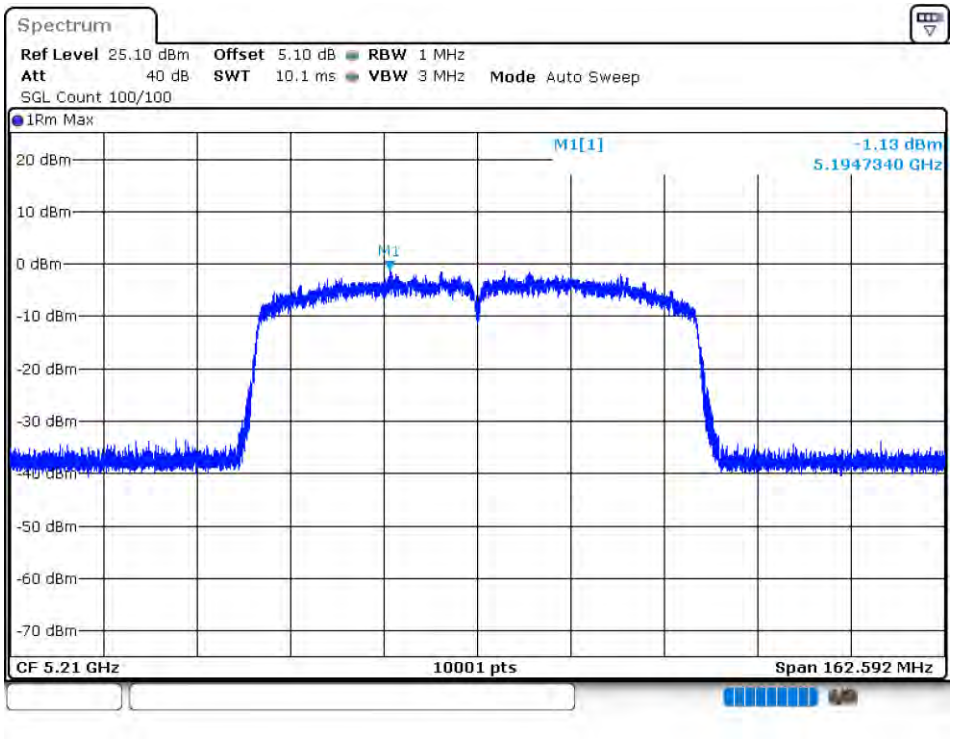
PSD NVNT 802.11ac40 5230MHz Ant2



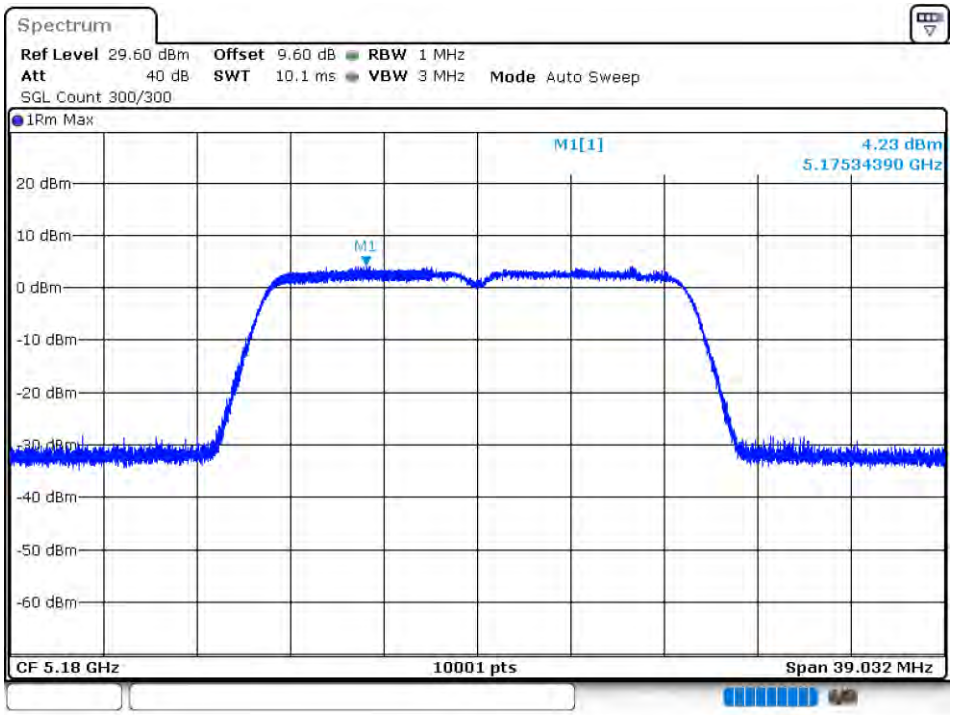
PSD NVNT 802.11ac80 5210MHz Ant1



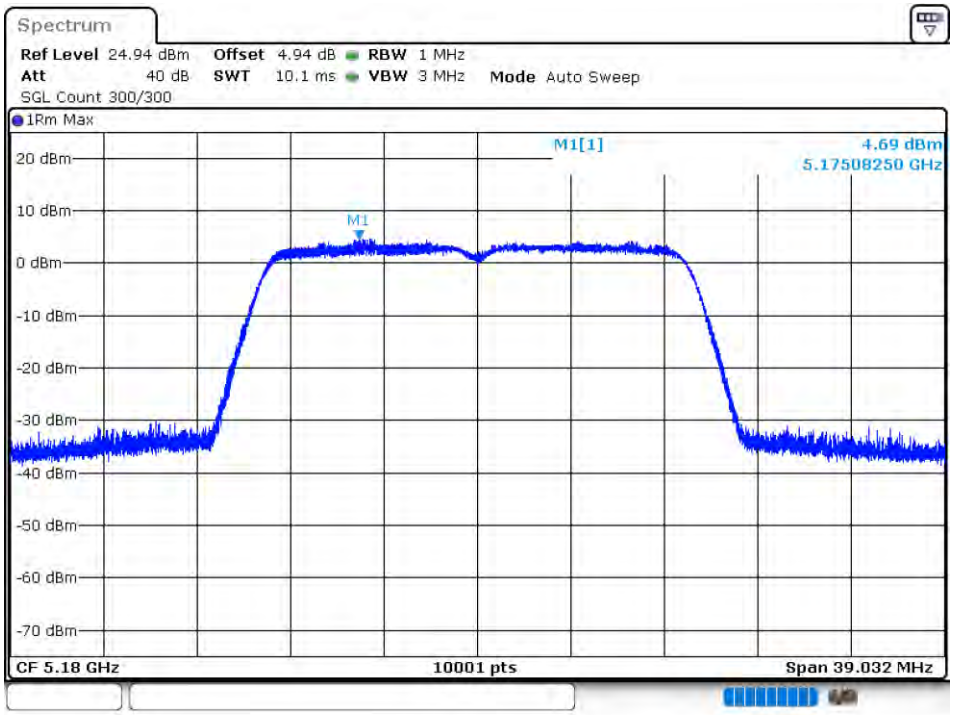
PSD NVNT 802.11ac80 5210MHz Ant2



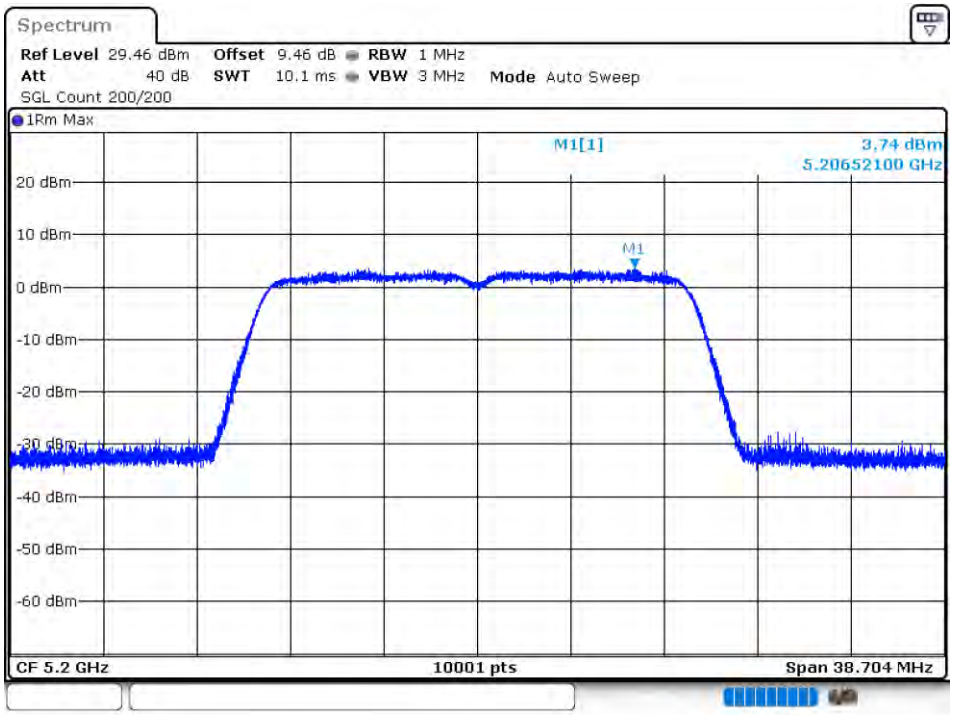
PSD NVNT 802.11n(HT20) 5180MHz Ant1



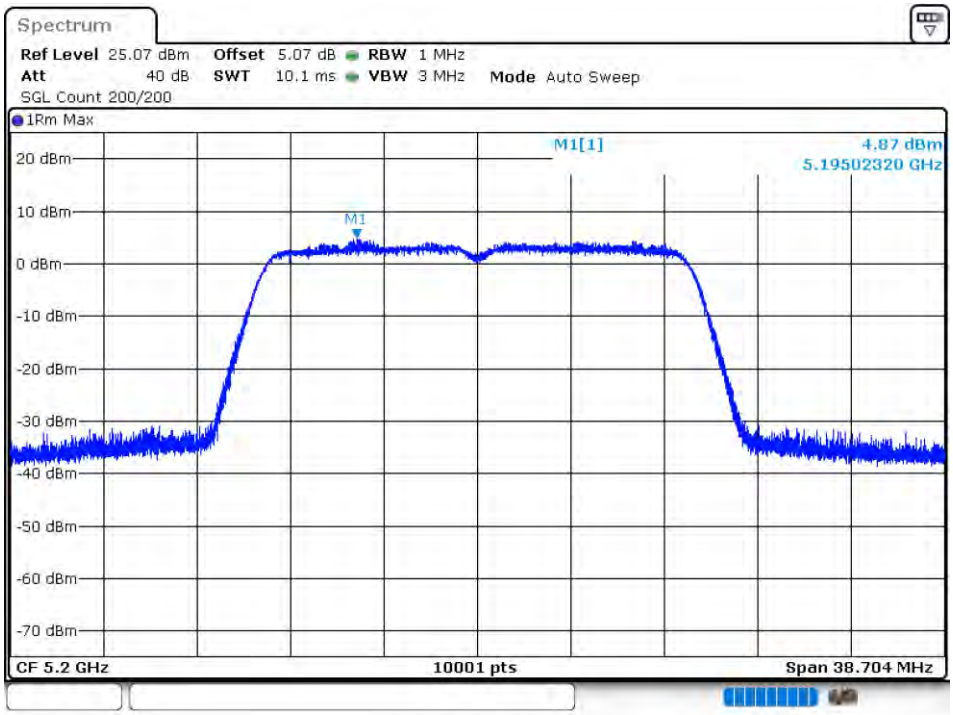
PSD NVNT 802.11n(HT20) 5180MHz Ant2



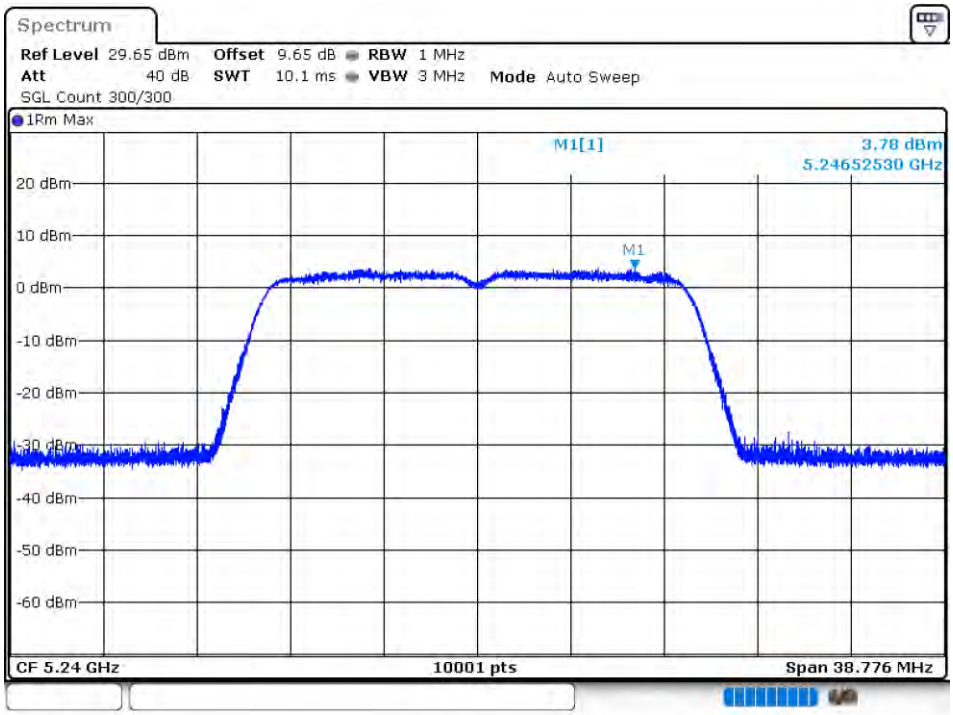
PSD NVNT 802.11n(HT20) 5200MHz Ant1



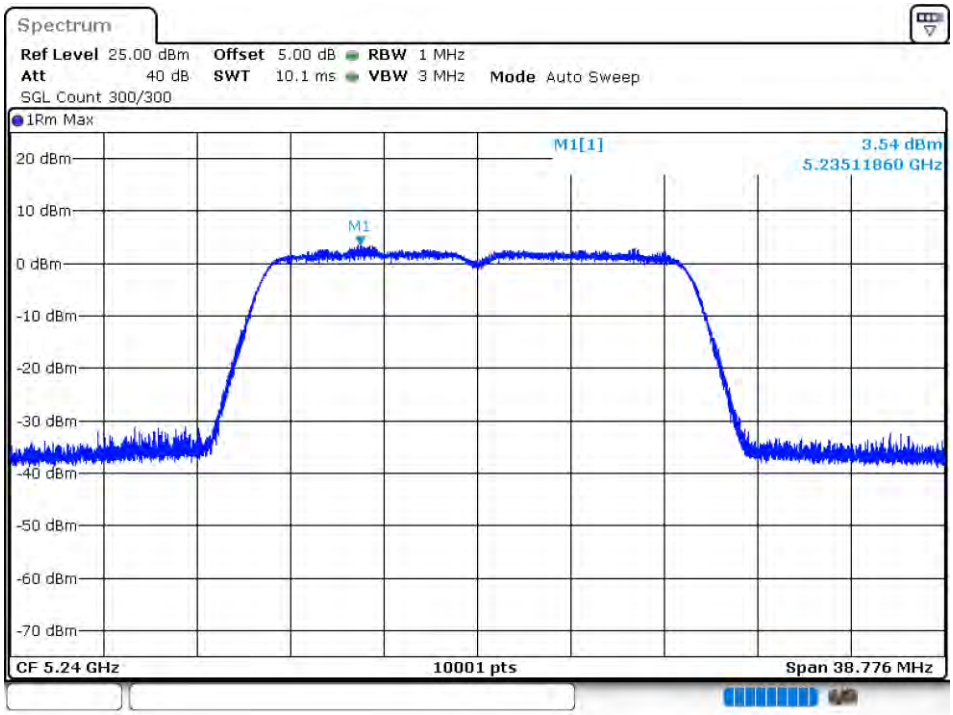
PSD NVNT 802.11n(HT20) 5200MHz Ant2



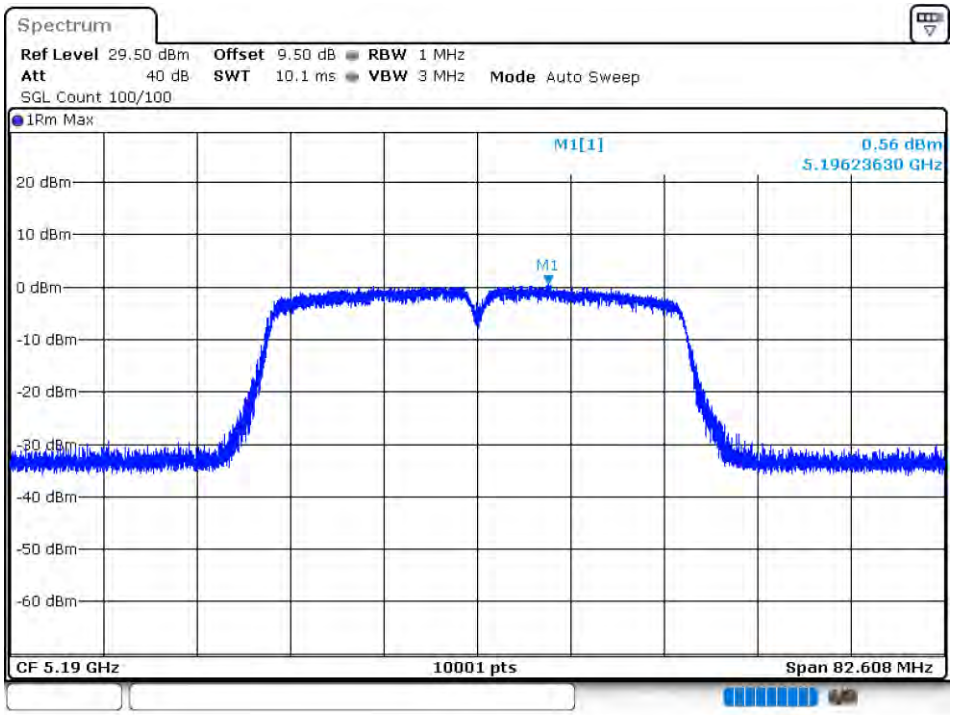
PSD NVNT 802.11n(HT20) 5240MHz Ant1



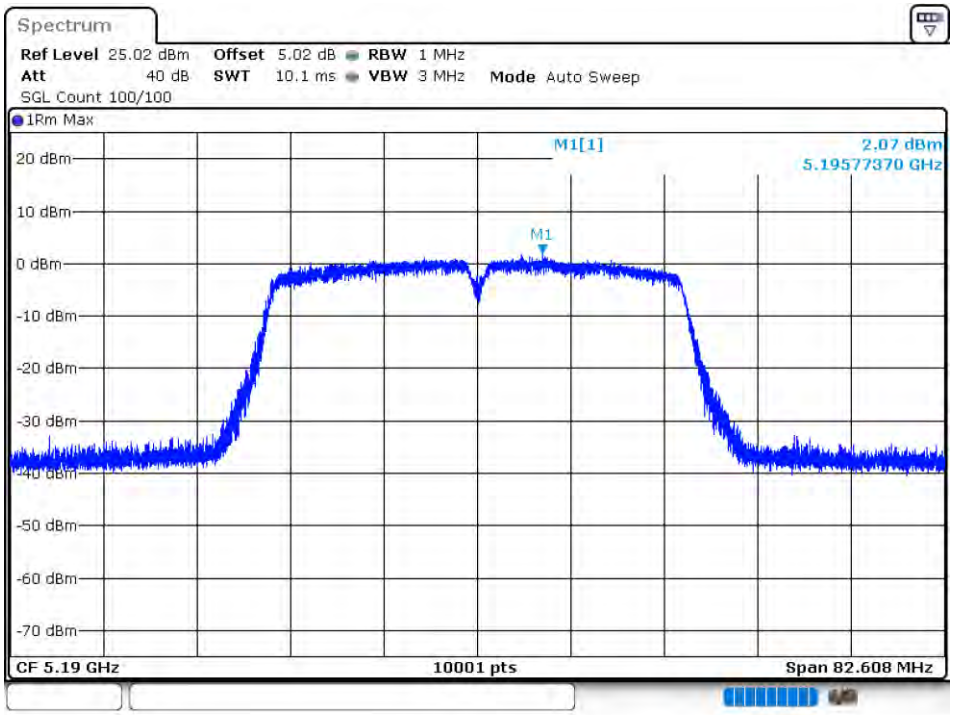
PSD NVNT 802.11n(HT20) 5240MHz Ant2



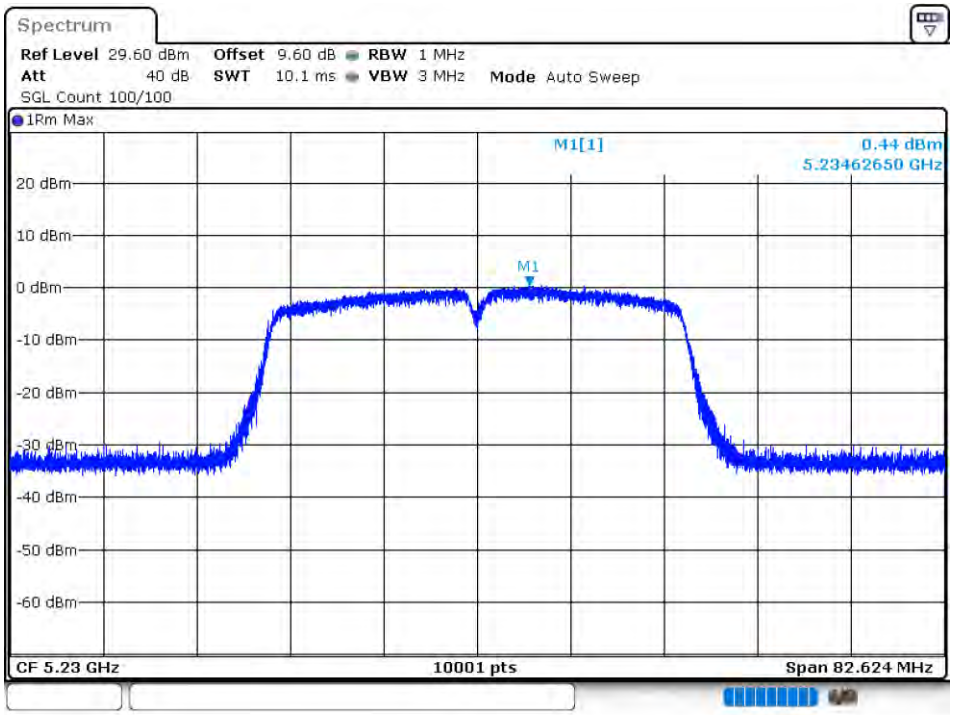
PSD NVNT 802.11n(HT40) 5190MHz Ant1



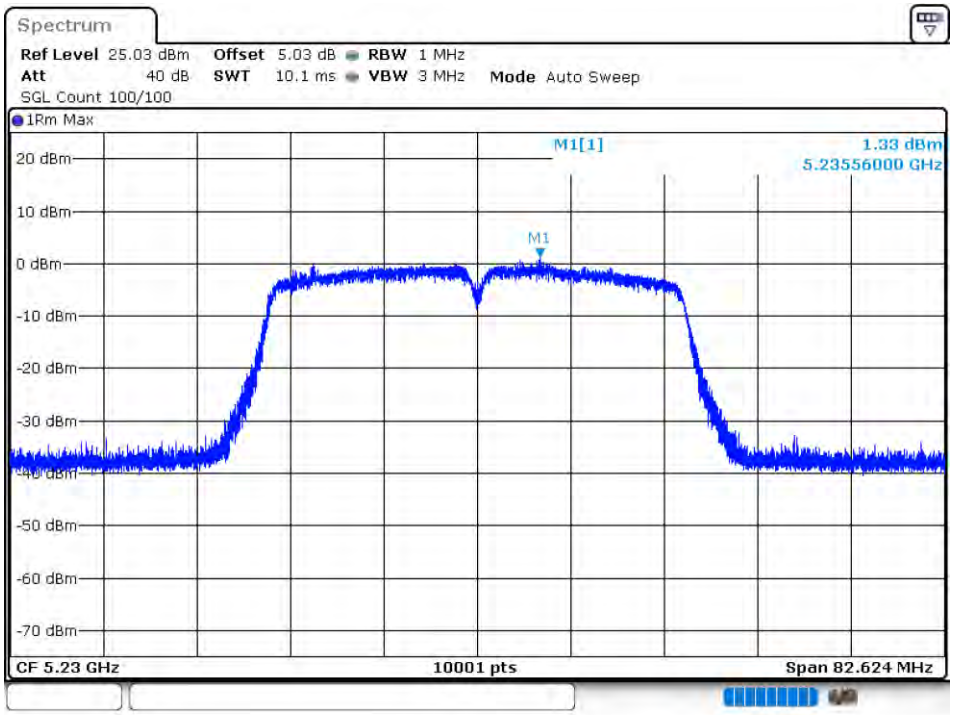
PSD NVNT 802.11n(HT40) 5190MHz Ant2



PSD NVNT 802.11n(HT40) 5230MHz Ant1



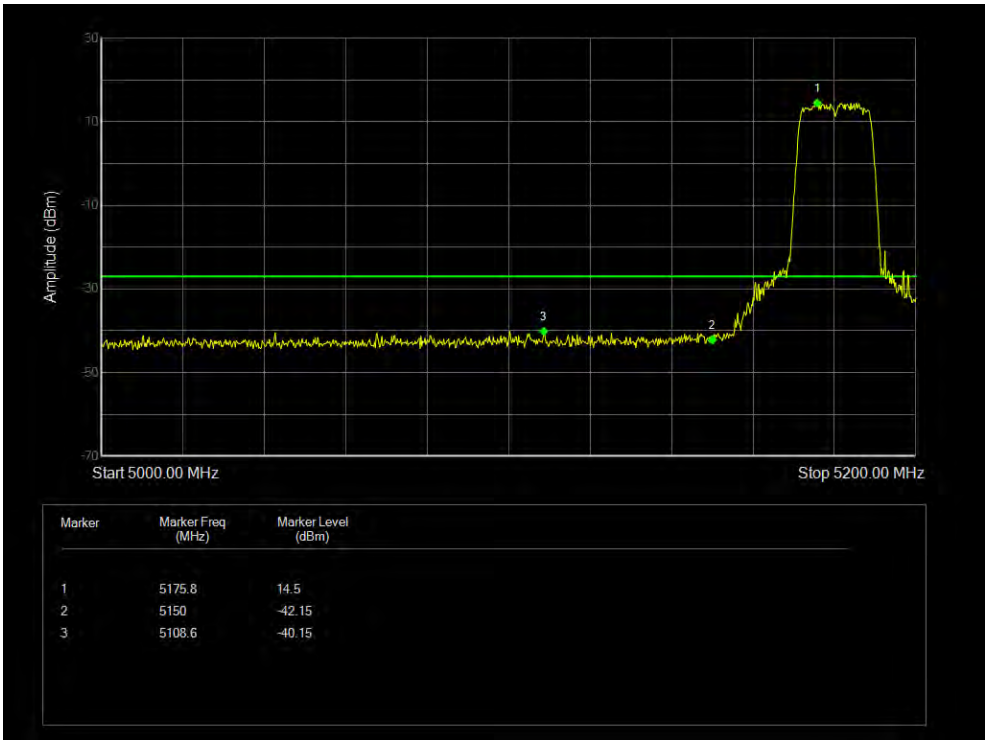
PSD NVNT 802.11n(HT40) 5230MHz Ant2



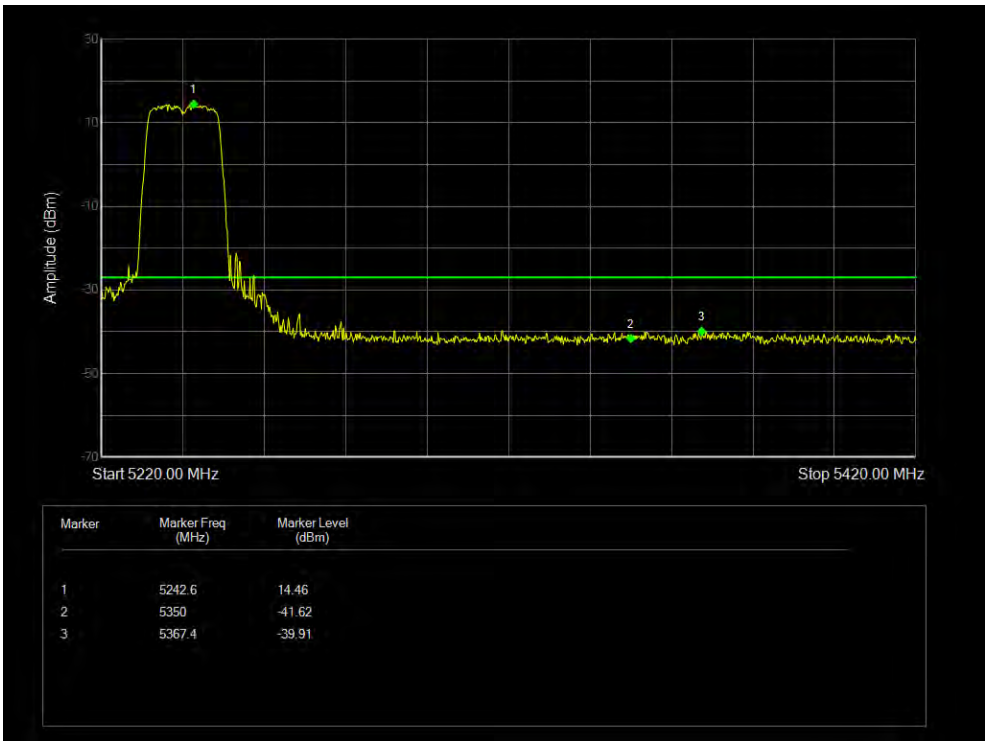
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	802.11ac20	5180	Sum	-40.15	Pass
NVNT	802.11ac20	5240	Sum	-39.91	Pass
NVNT	802.11ac40	5190	Sum	-30.68	Pass
NVNT	802.11ac40	5230	Sum	-40.31	Pass
NVNT	802.11ac80	5210	Sum	-40.45	Pass
NVNT	802.11ac80	5210	Sum	-31.41	Pass
NVNT	802.11n(HT20)	5180	Sum	-40.58	Pass
NVNT	802.11n(HT20)	5240	Sum	-38.85	Pass
NVNT	802.11n(HT40)	5190	Sum	-31.12	Pass
NVNT	802.11n(HT40)	5230	Sum	-40.1	Pass

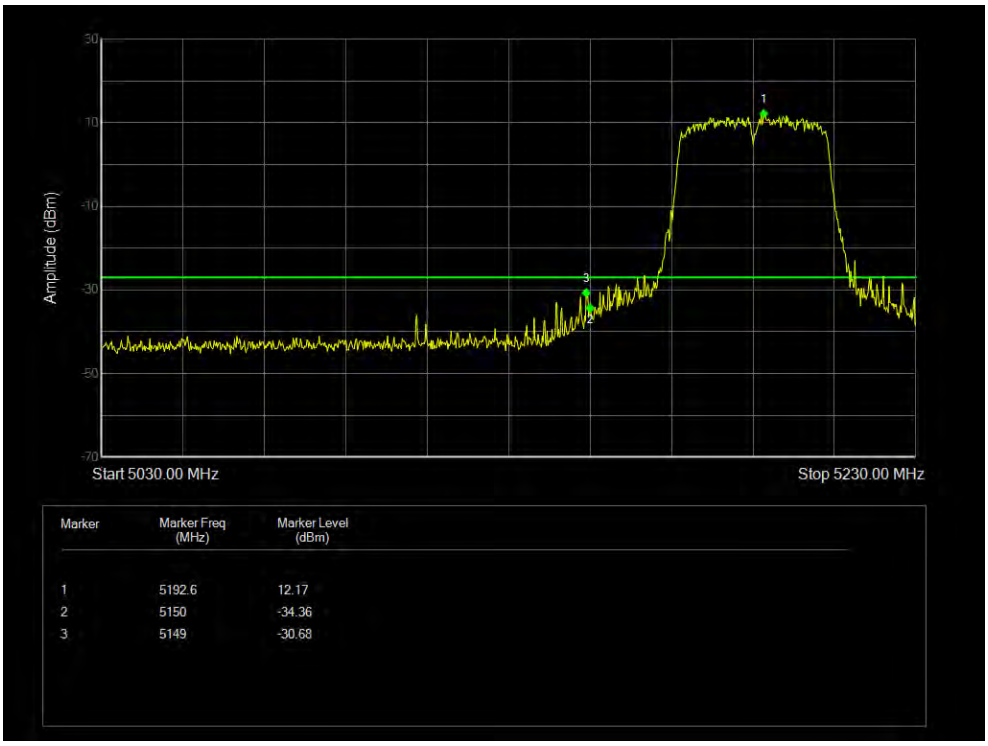
Band Edge NVNT 802.11ac20 5180MHz Low Sum



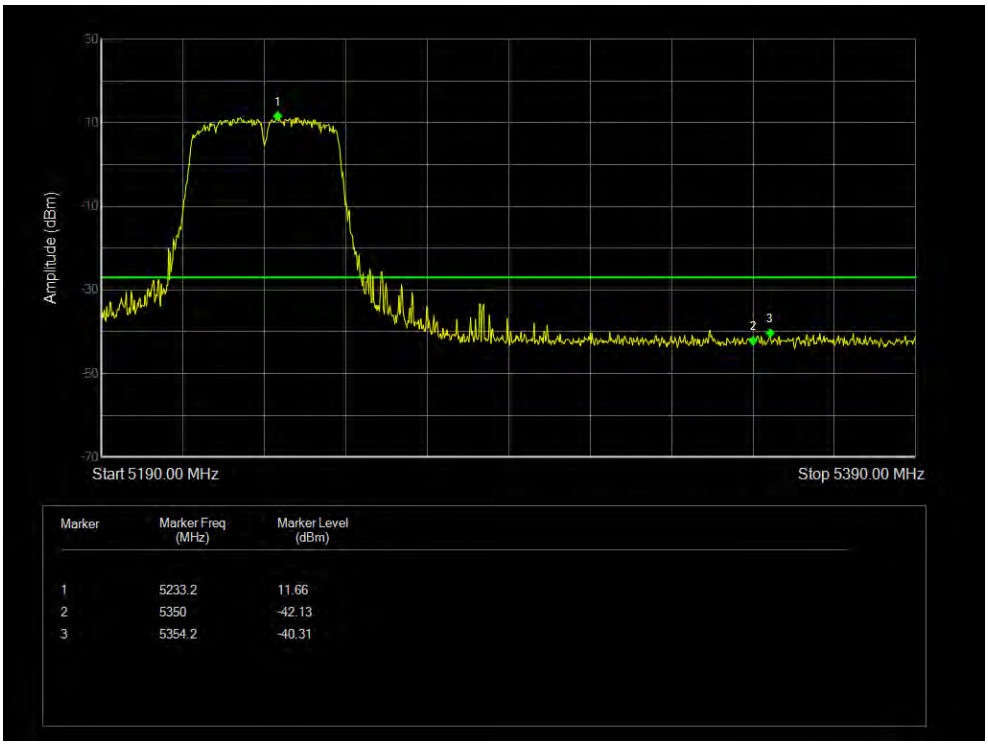
Band Edge NVNT 802.11ac20 5240MHz High Sum



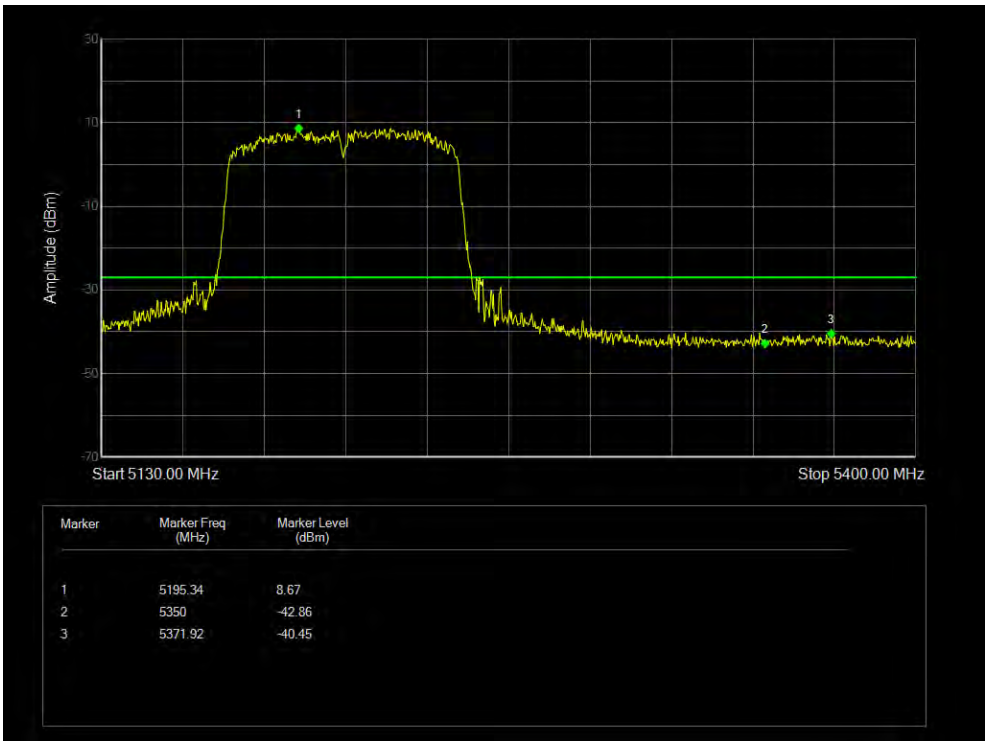
Band Edge NVNT 802.11ac40 5190MHz Low Sum



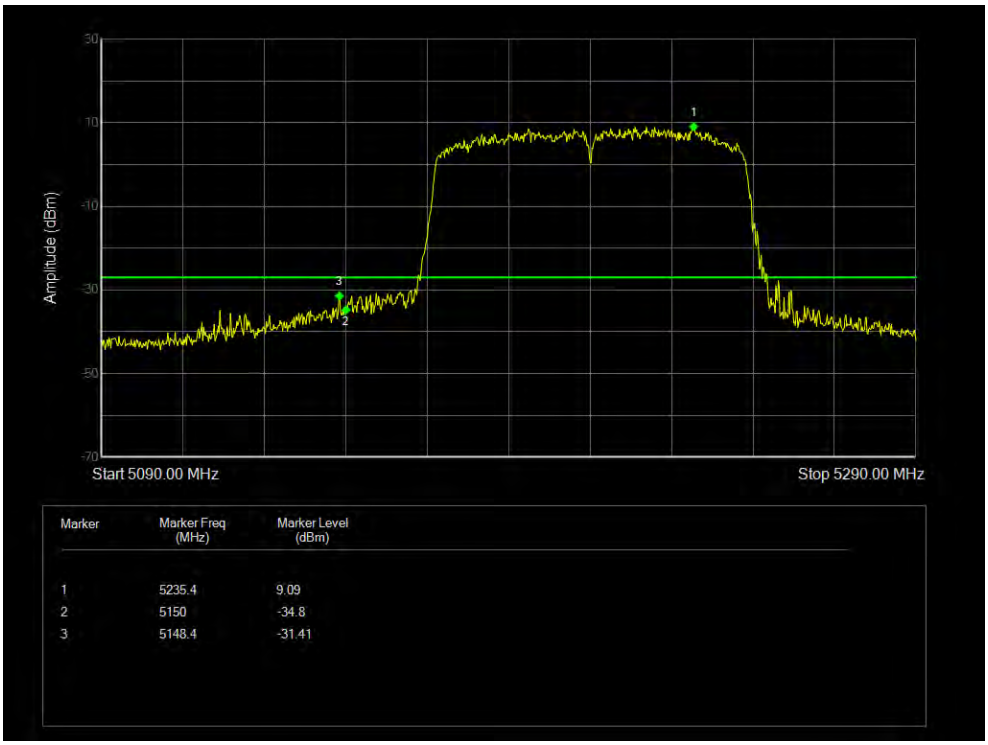
Band Edge NVNT 802.11ac40 5230MHz High Sum



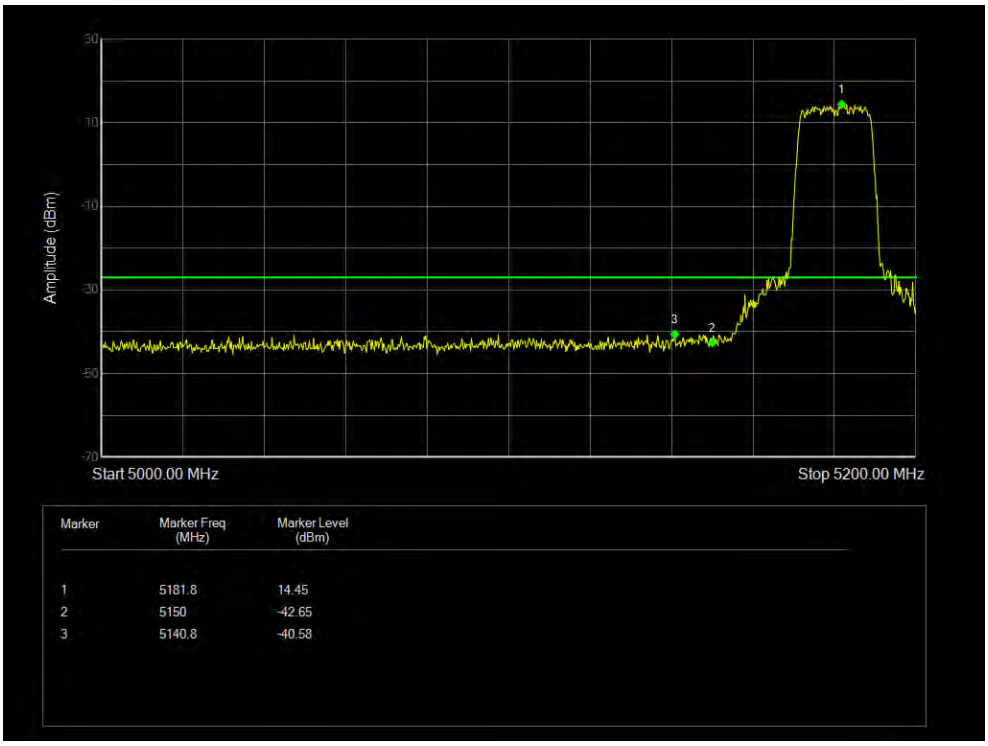
Band Edge NVNT 802.11ac80 5210MHz High Sum



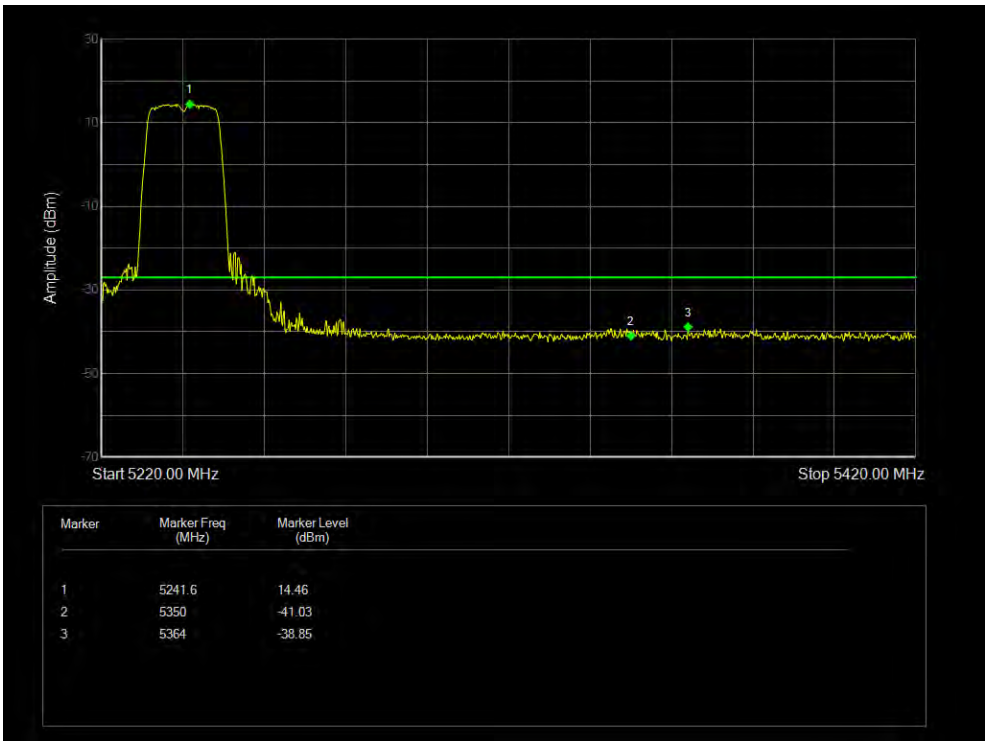
Band Edge NVNT 802.11ac80 5210MHz Low Sum



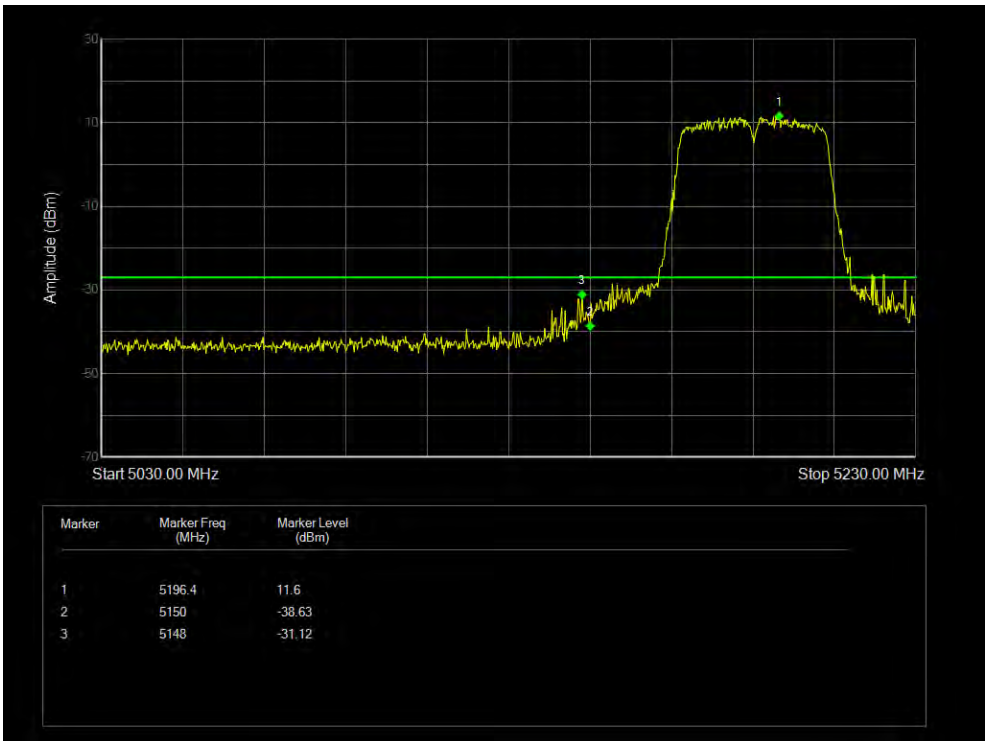
Band Edge NVNT 802.11n(HT20) 5180MHz Low Sum



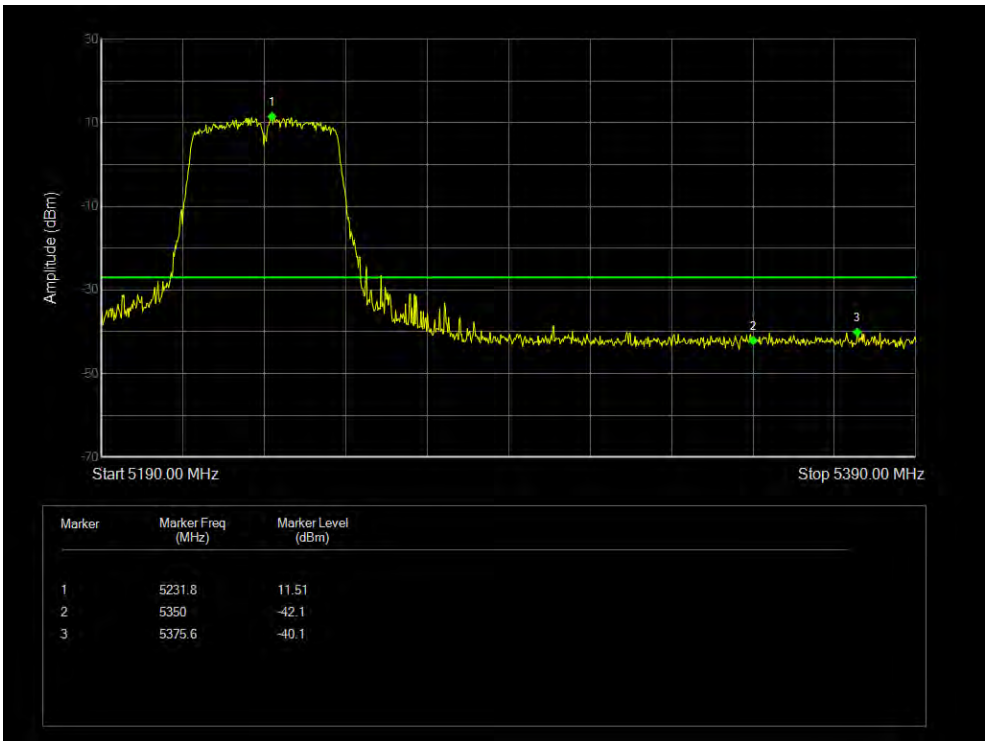
Band Edge NVNT 802.11n(HT20) 5240MHz High Sum



Band Edge NVNT 802.11n(HT40) 5190MHz Low Sum



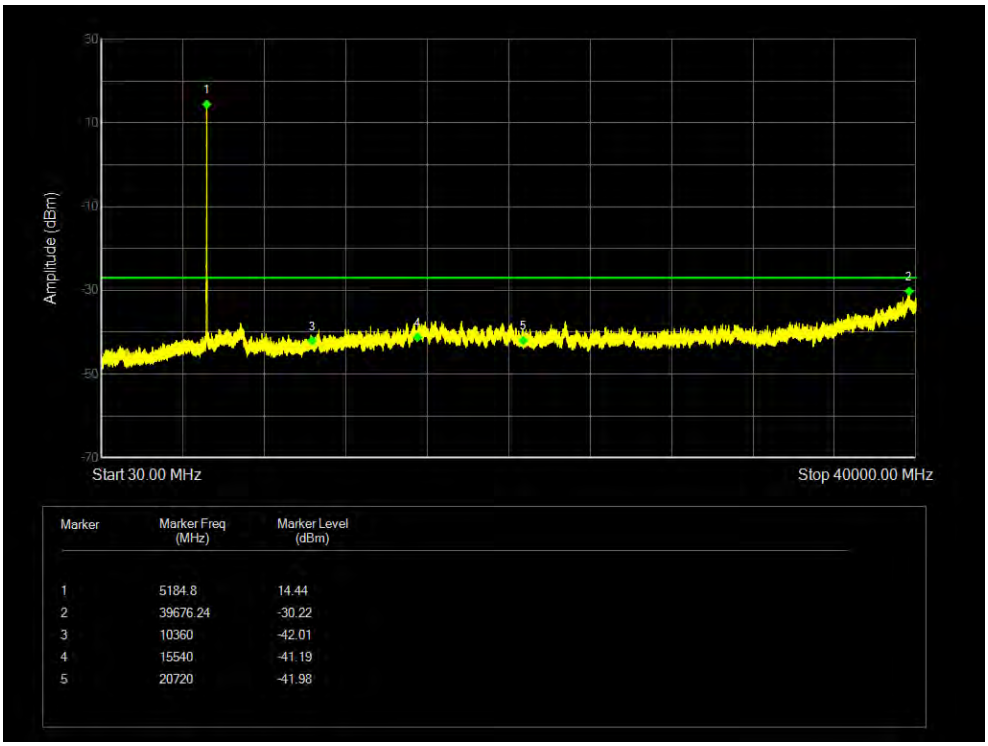
Band Edge NVNT 802.11n(HT40) 5230MHz High Sum



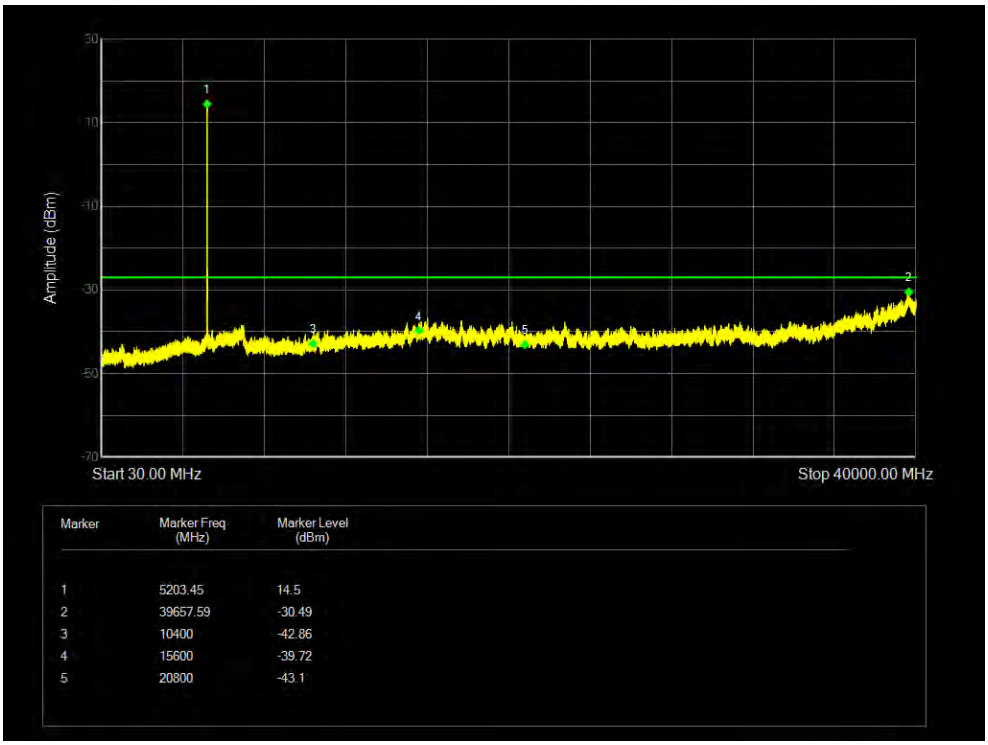
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11ac20	5180	Sum	-30.22	-27	Pass
NVNT	802.11ac20	5200	Sum	-30.49	-27	Pass
NVNT	802.11ac20	5240	Sum	-31	-27	Pass
NVNT	802.11ac40	5190	Sum	-29.74	-27	Pass
NVNT	802.11ac40	5230	Sum	-30.62	-27	Pass
NVNT	802.11ac80	5210	Sum	-30.11	-27	Pass
NVNT	802.11n(HT20)	5180	Sum	-31.05	-27	Pass
NVNT	802.11n(HT20)	5200	Sum	-31.09	-27	Pass
NVNT	802.11n(HT20)	5240	Sum	-30.63	-27	Pass
NVNT	802.11n(HT40)	5190	Sum	-30.94	-27	Pass
NVNT	802.11n(HT40)	5230	Sum	-31.01	-27	Pass

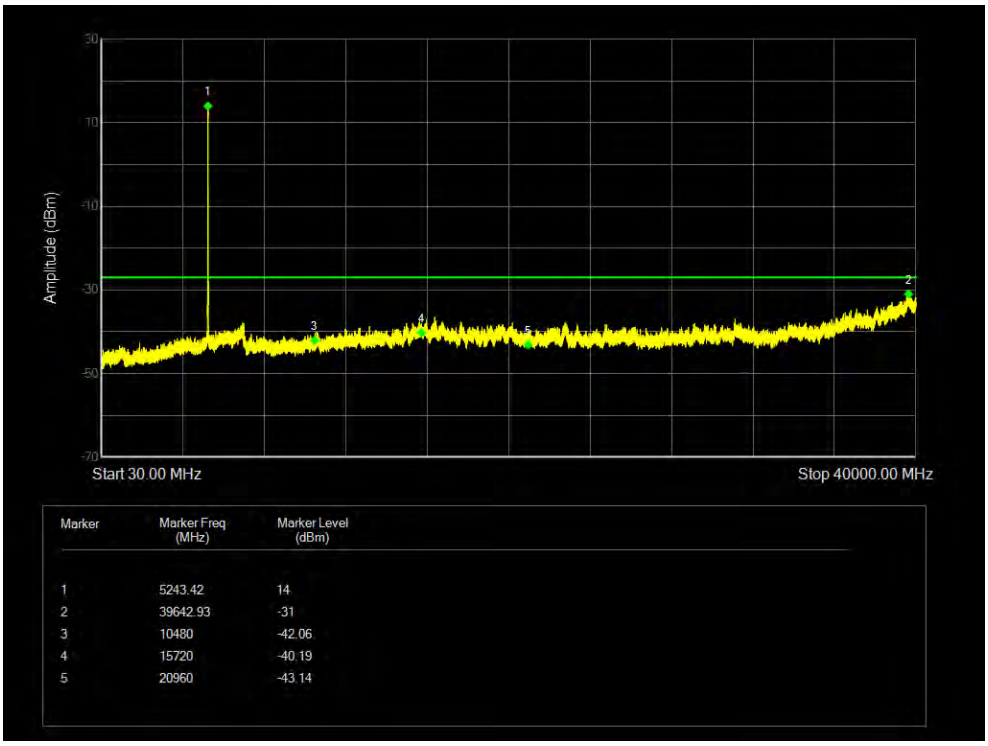
Tx. Spurious NVNT 802.11ac20 5180MHz Sum Emission



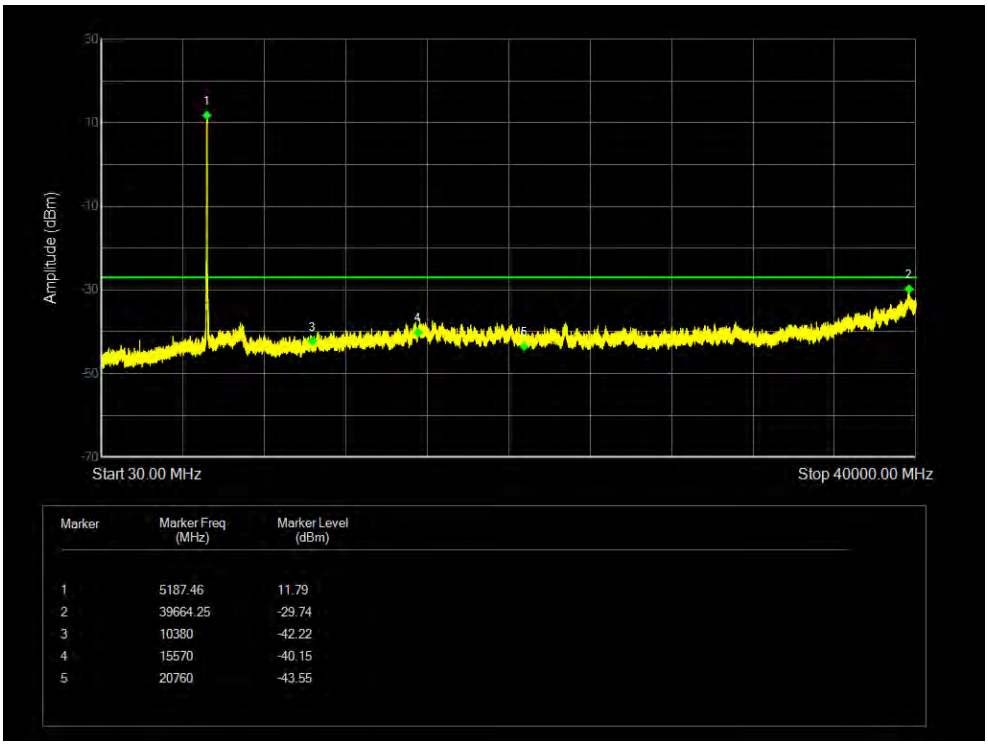
Tx. Spurious NVNT 802.11ac20 5200MHz Sum Emission



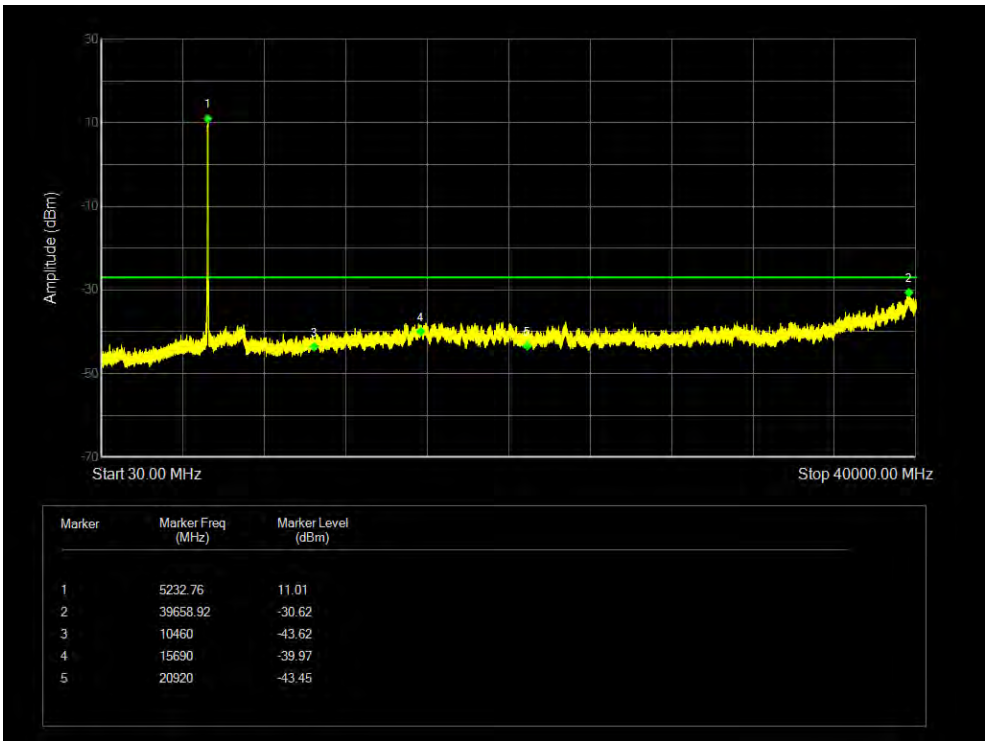
Tx. Spurious NVNT 802.11ac20 5240MHz Sum Emission



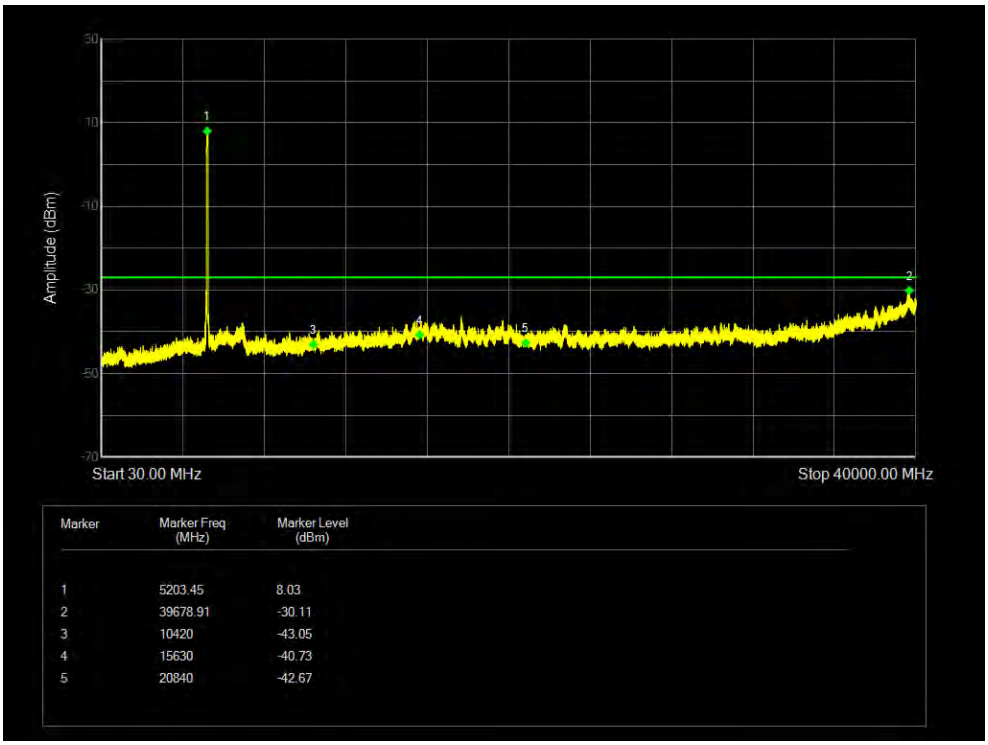
Tx. Spurious NVNT 802.11ac40 5190MHz Sum Emission



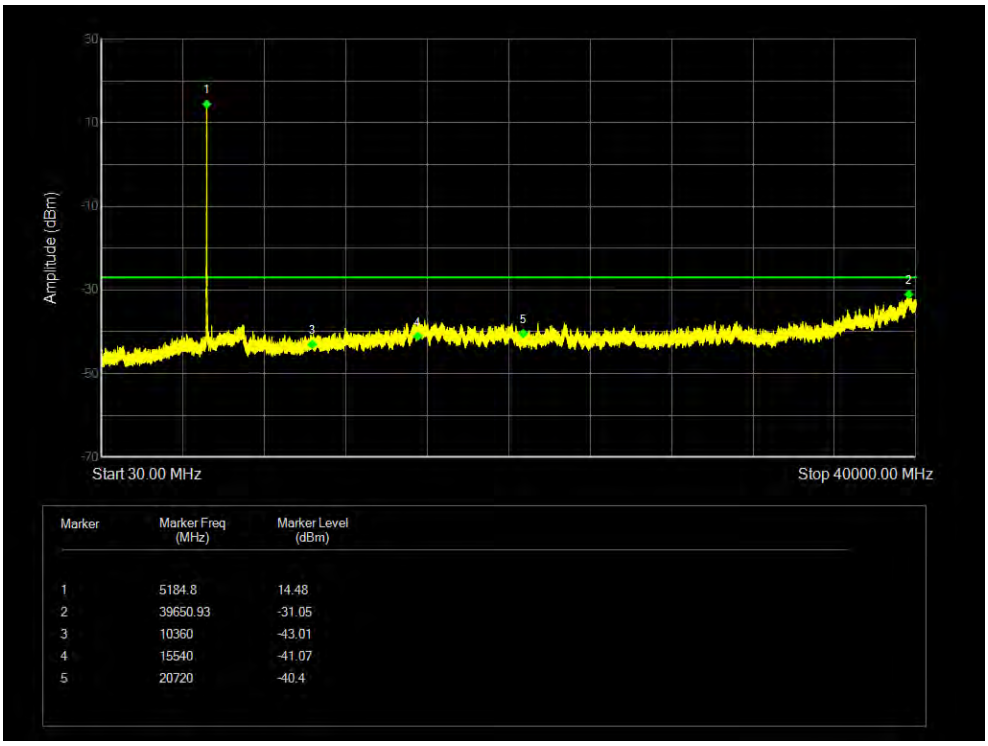
Tx. Spurious NVNT 802.11ac40 5230MHz Sum Emission



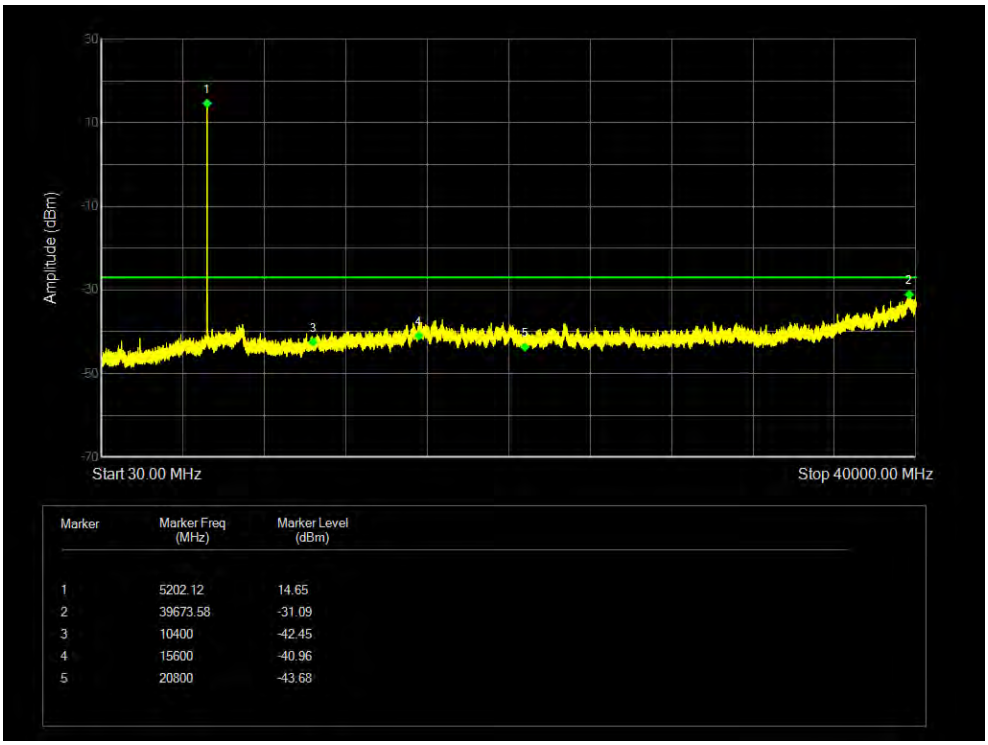
Tx. Spurious NVNT 802.11ac80 5210MHz Sum Emission



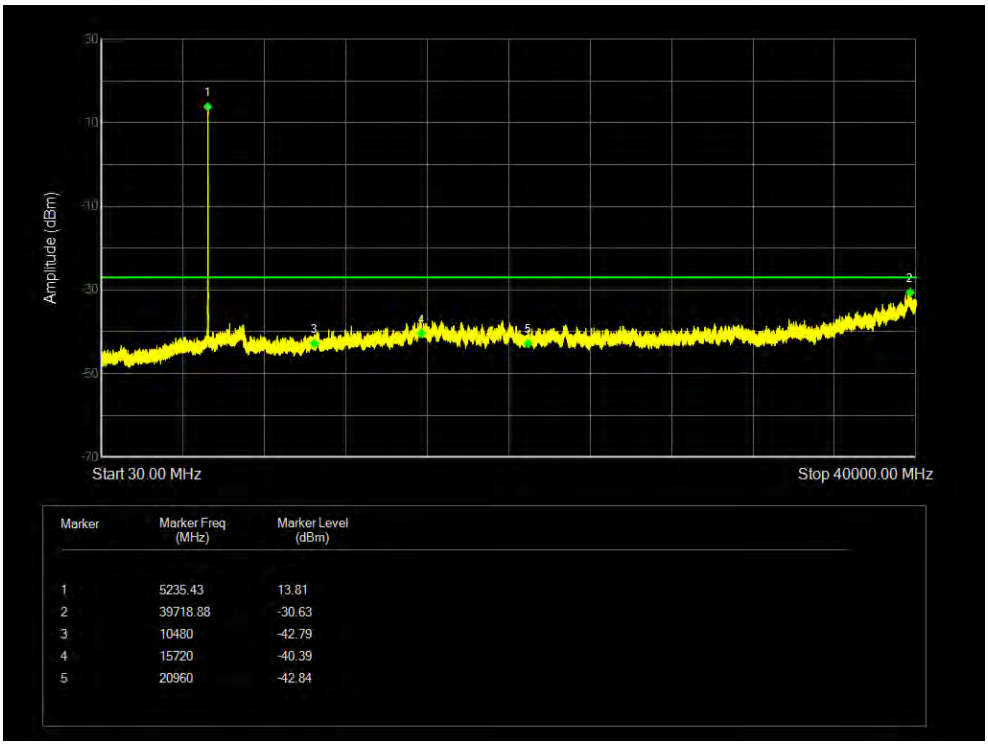
Tx. Spurious NVNT 802.11n(HT20) 5180MHz Sum Emission



Tx. Spurious NVNT 802.11n(HT20) 5200MHz Sum Emission



Tx. Spurious NVNT 802.11n(HT20) 5240MHz Sum Emission



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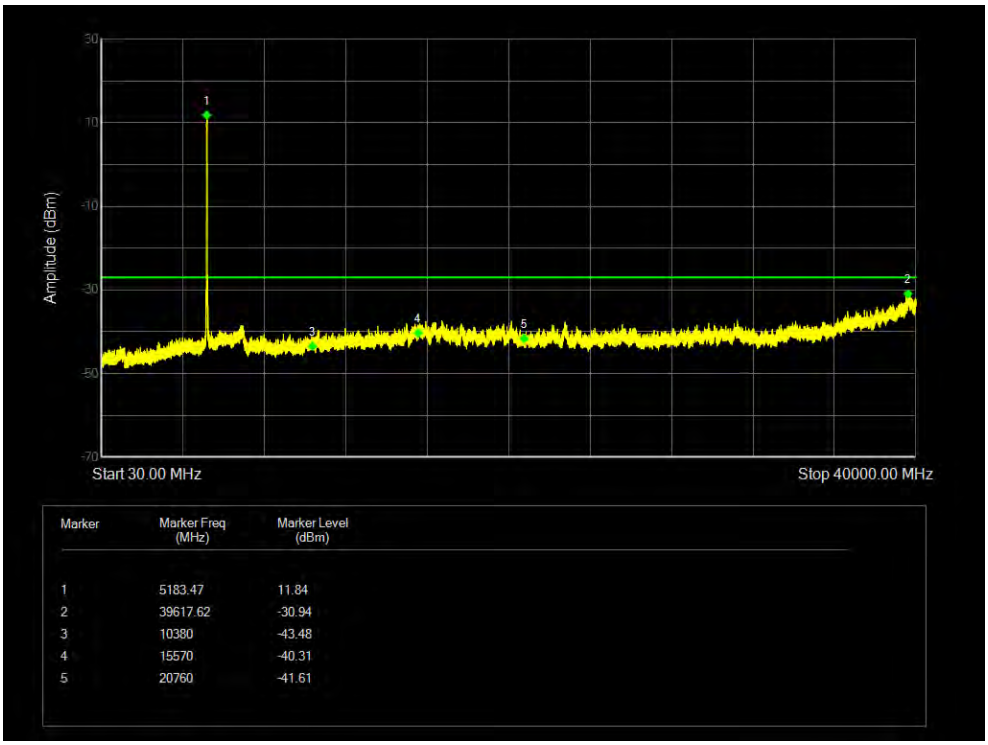

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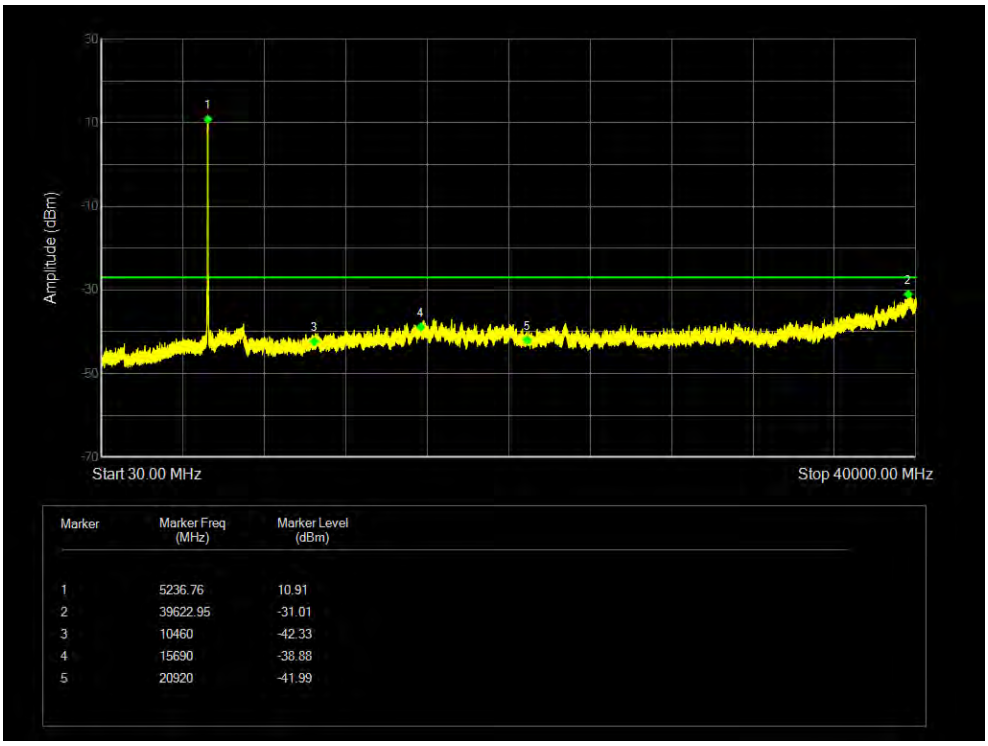
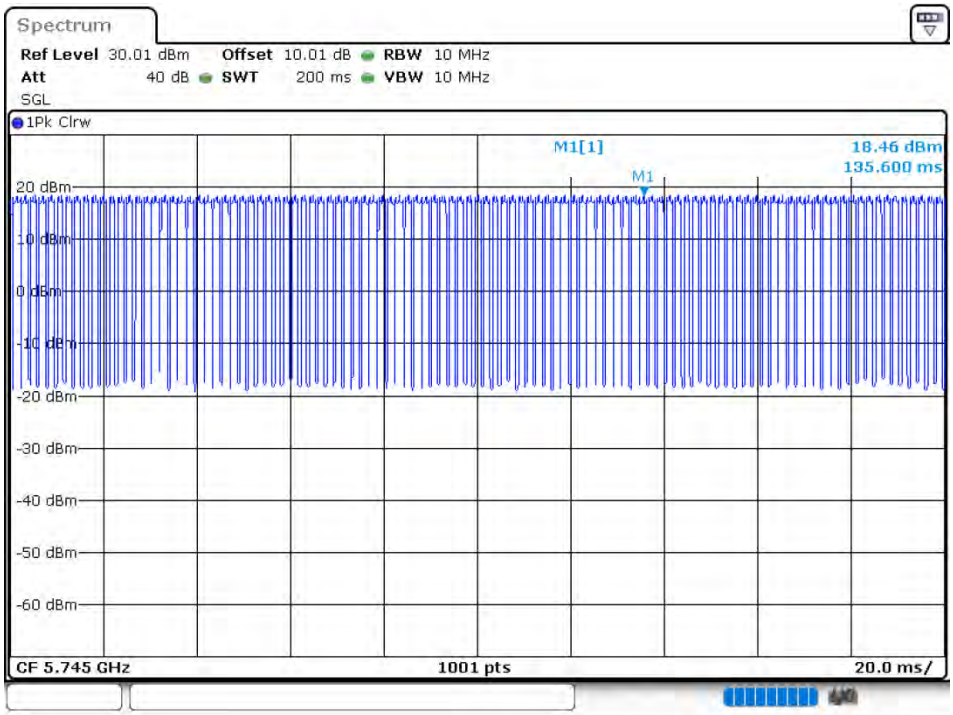


5.8G

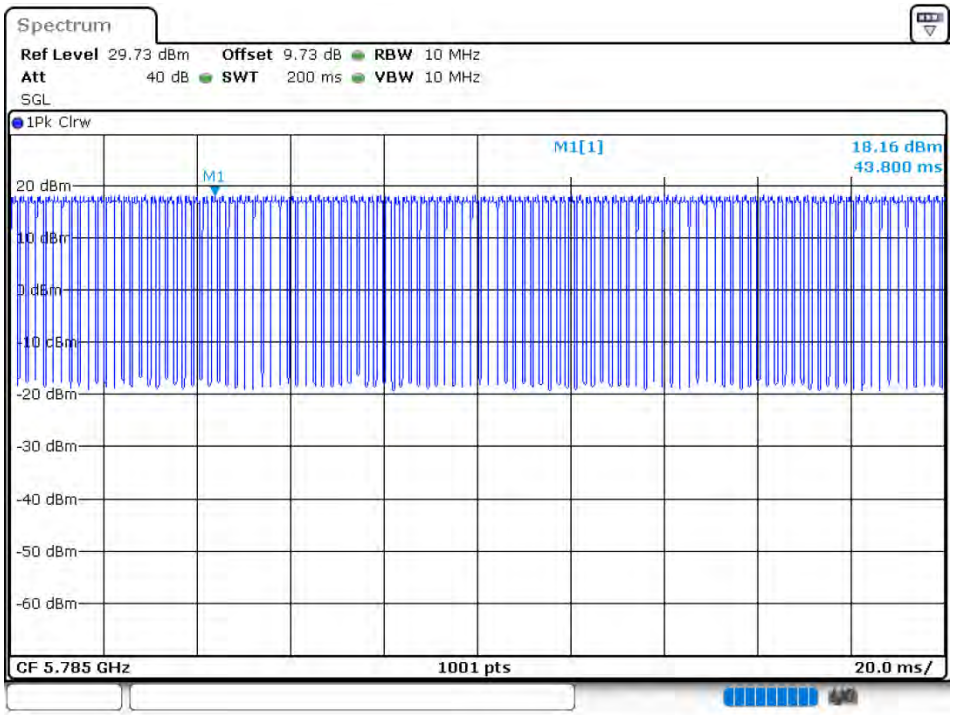
Duty Cycle

Antenna	Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
Ant 1	NVNT	802.11a	5745	100	0
Ant 1	NVNT	802.11a	5785	100	0
Ant 1	NVNT	802.11a	5825	100	0
Ant 2	NVNT	802.11a	5745	100	0
Ant 2	NVNT	802.11a	5785	100	0
Ant 2	NVNT	802.11a	5825	100	0
Ant 1	NVNT	802.11ac20	5745	100	0
Ant 1	NVNT	802.11ac20	5785	100	0
Ant 1	NVNT	802.11ac20	5825	100	0
Ant 2	NVNT	802.11ac20	5745	100	0
Ant 2	NVNT	802.11ac20	5785	100	0
Ant 2	NVNT	802.11ac20	5825	100	0
Ant 1	NVNT	802.11ac40	5755	100	0
Ant 1	NVNT	802.11ac40	5795	100	0
Ant 2	NVNT	802.11ac40	5755	100	0
Ant 2	NVNT	802.11ac40	5795	100	0
Ant 1	NVNT	802.11ac80	5775	100	0
Ant 2	NVNT	802.11ac80	5775	100	0
Ant 1	NVNT	802.11n(HT20)	5745	100	0
Ant 1	NVNT	802.11n(HT20)	5785	100	0
Ant 1	NVNT	802.11n(HT20)	5825	100	0
Ant 2	NVNT	802.11n(HT20)	5745	100	0
Ant 2	NVNT	802.11n(HT20)	5785	100	0
Ant 2	NVNT	802.11n(HT20)	5825	100	0
Ant 1	NVNT	802.11n(HT40)	5755	100	0
Ant 1	NVNT	802.11n(HT40)	5795	100	0
Ant 2	NVNT	802.11n(HT40)	5755	100	0
Ant 2	NVNT	802.11n(HT40)	5795	100	0

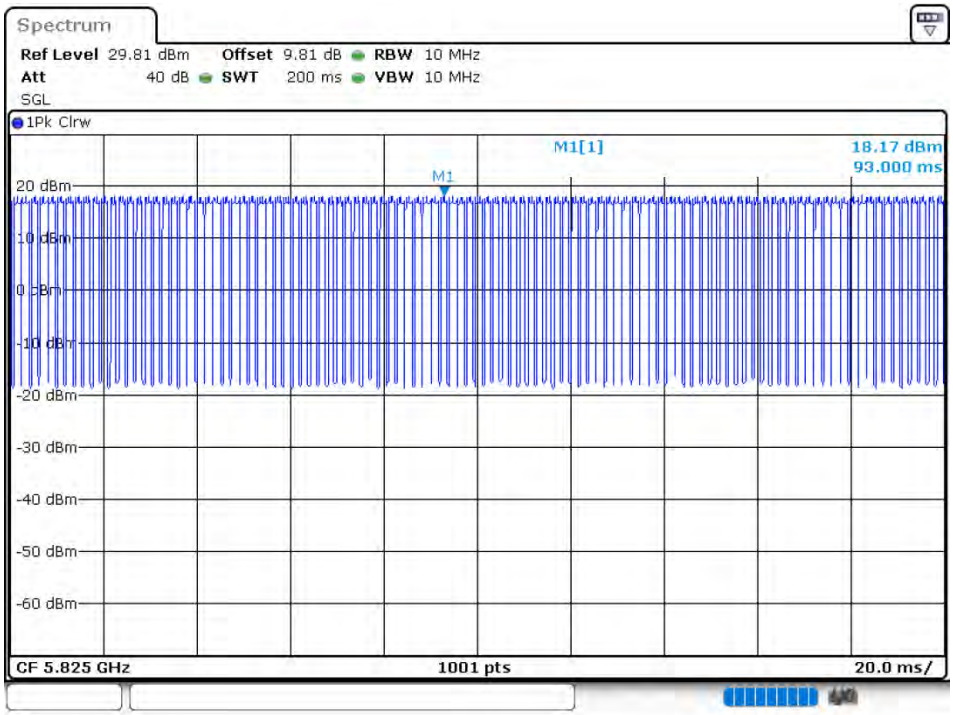
Duty Cycle NVNT 802.11a 5745MHz Ant 1



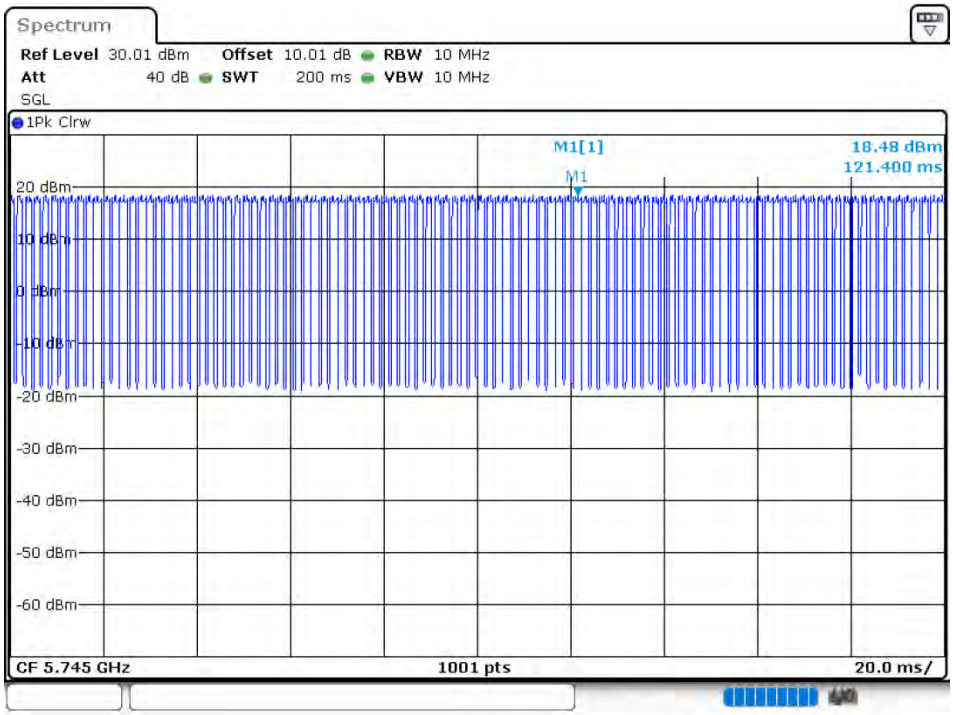
Duty Cycle NVNT 802.11a 5785MHz Ant 1



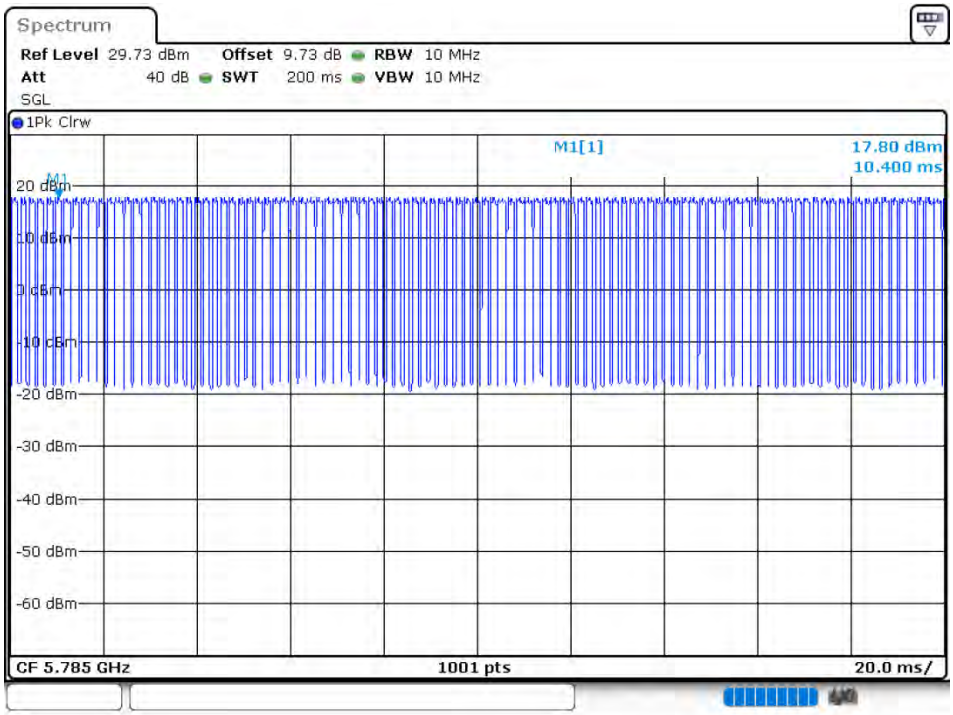
Duty Cycle NVNT 802.11a 5825MHz Ant 1



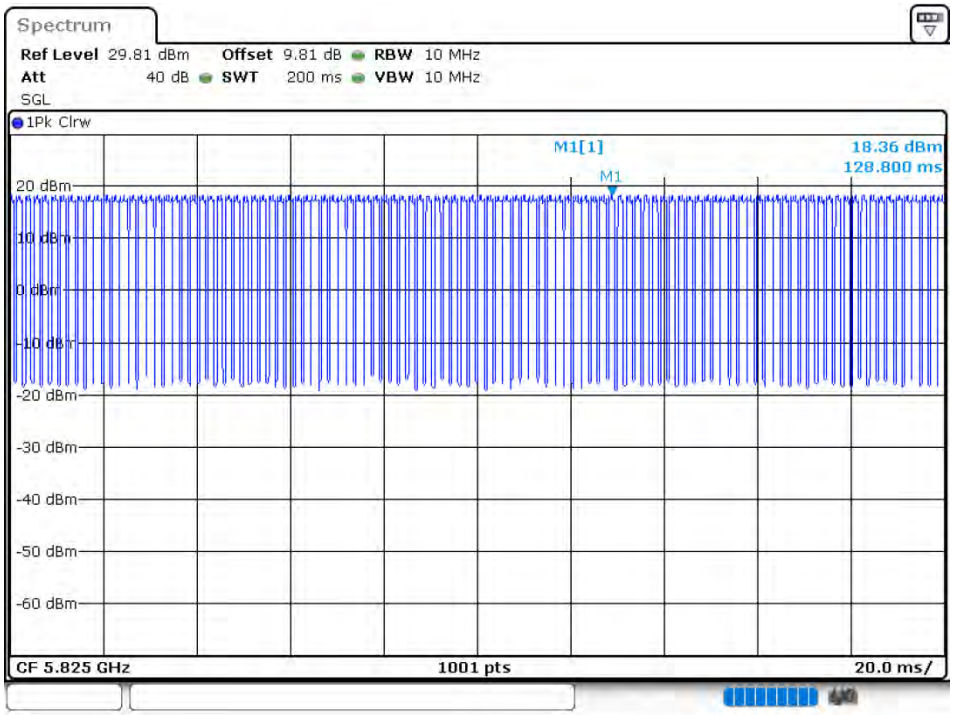
Duty Cycle NVNT 802.11a 5745MHz Ant 2



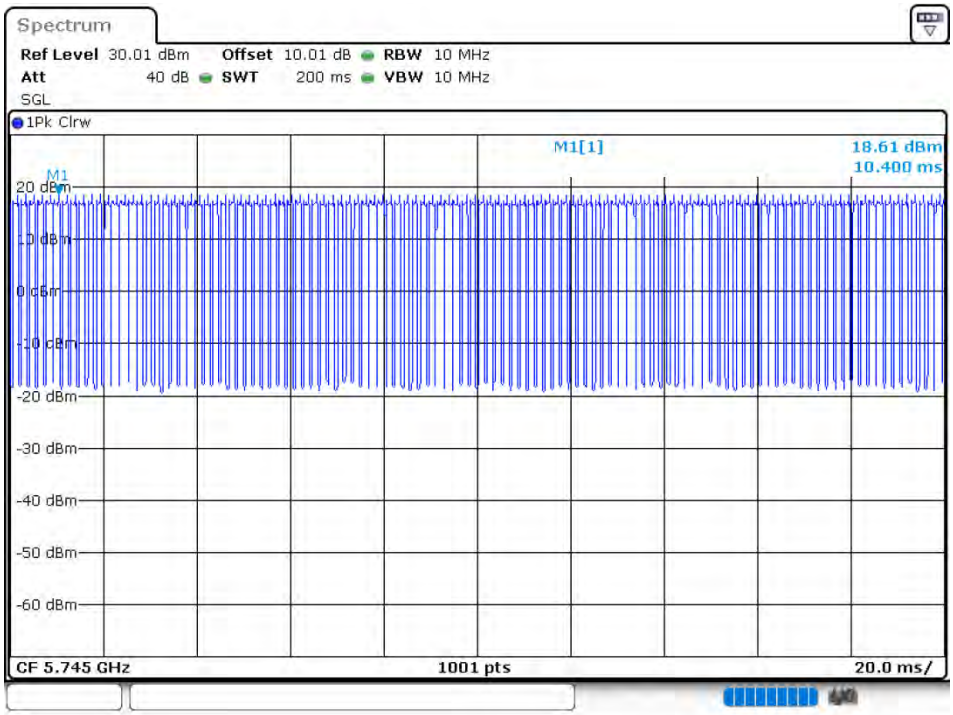
Duty Cycle NVNT 802.11a 5785MHz Ant 2



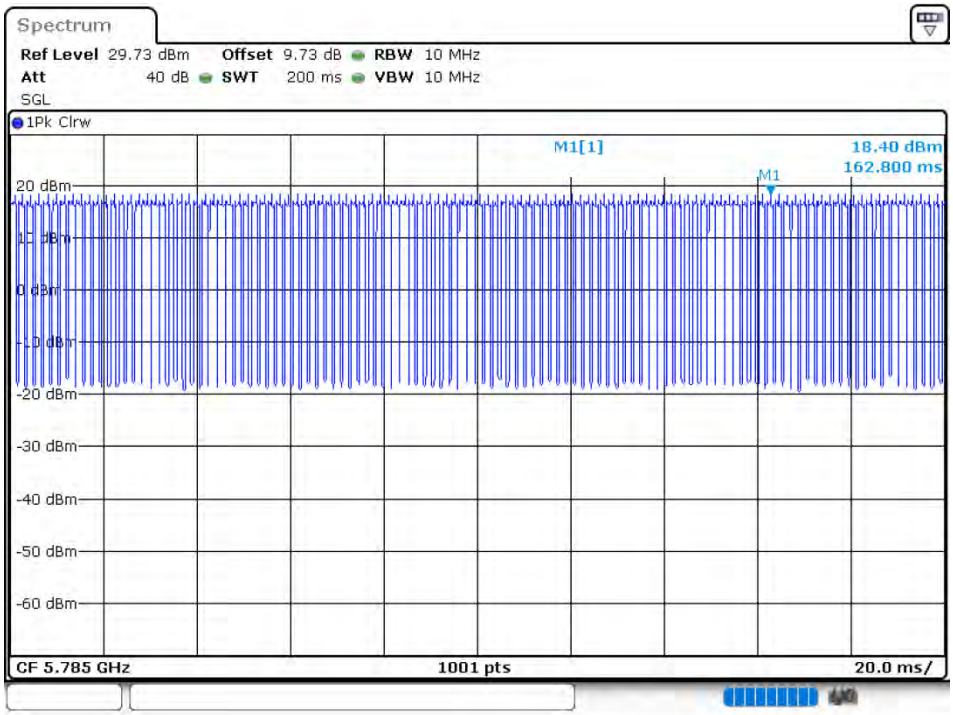
Duty Cycle NVNT 802.11a 5825MHz Ant 2



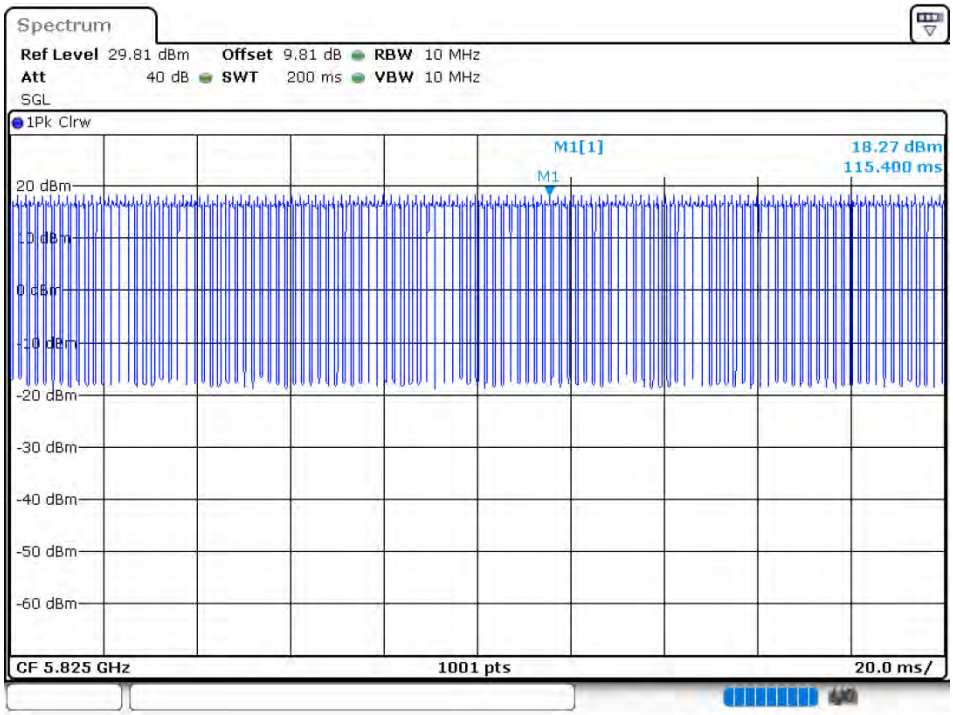
Duty Cycle NVNT 802.11ac20 5745MHz Ant 1



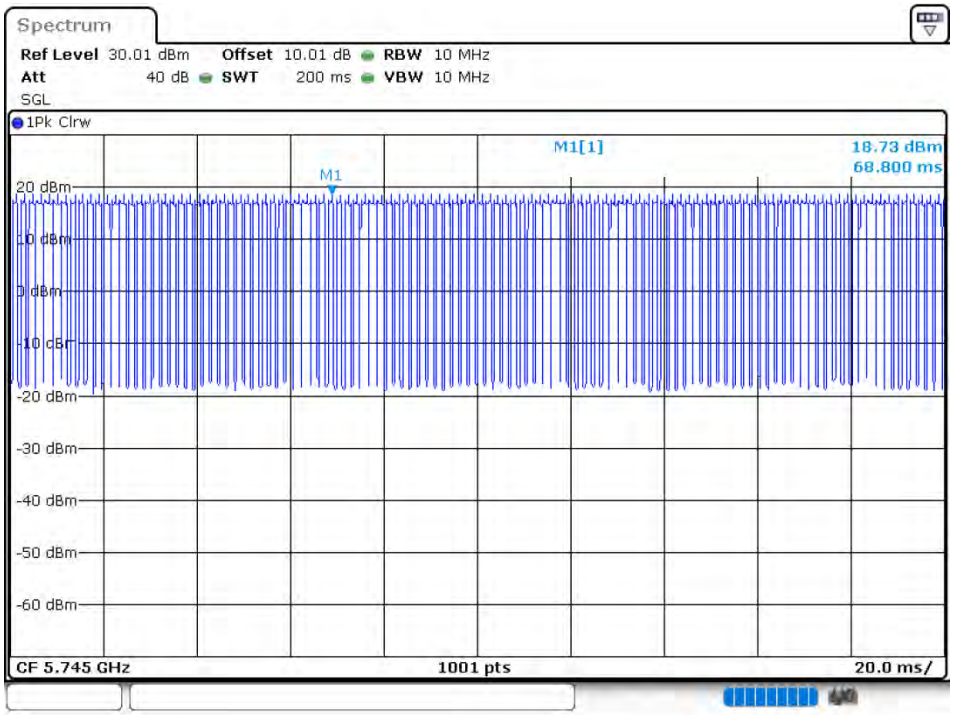
Duty Cycle NVNT 802.11ac20 5785MHz Ant 1



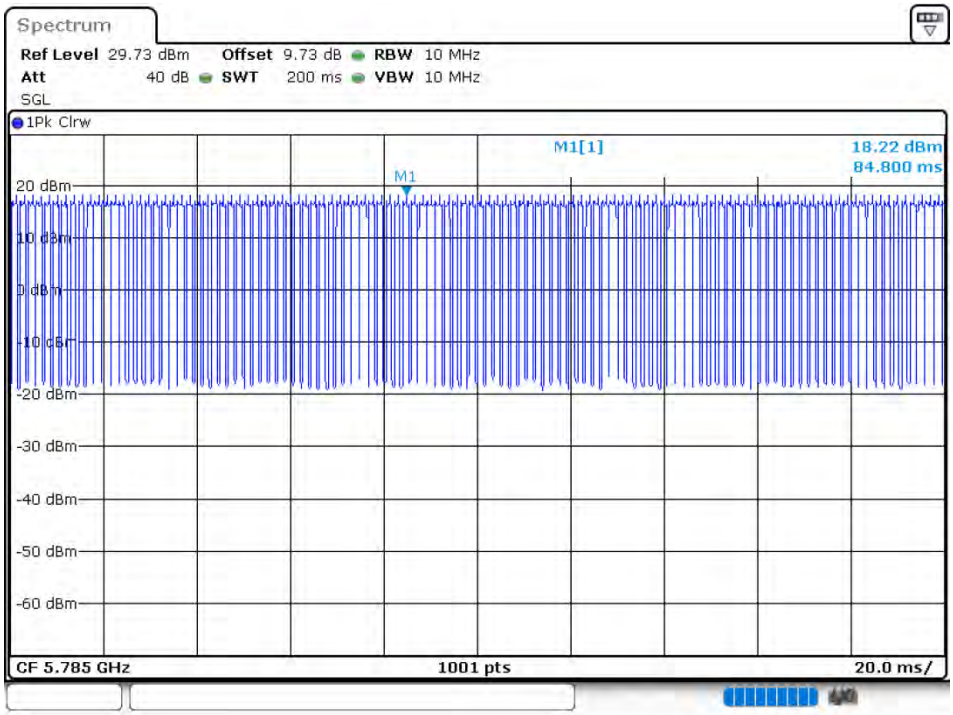
Duty Cycle NVNT 802.11ac20 5825MHz Ant 1



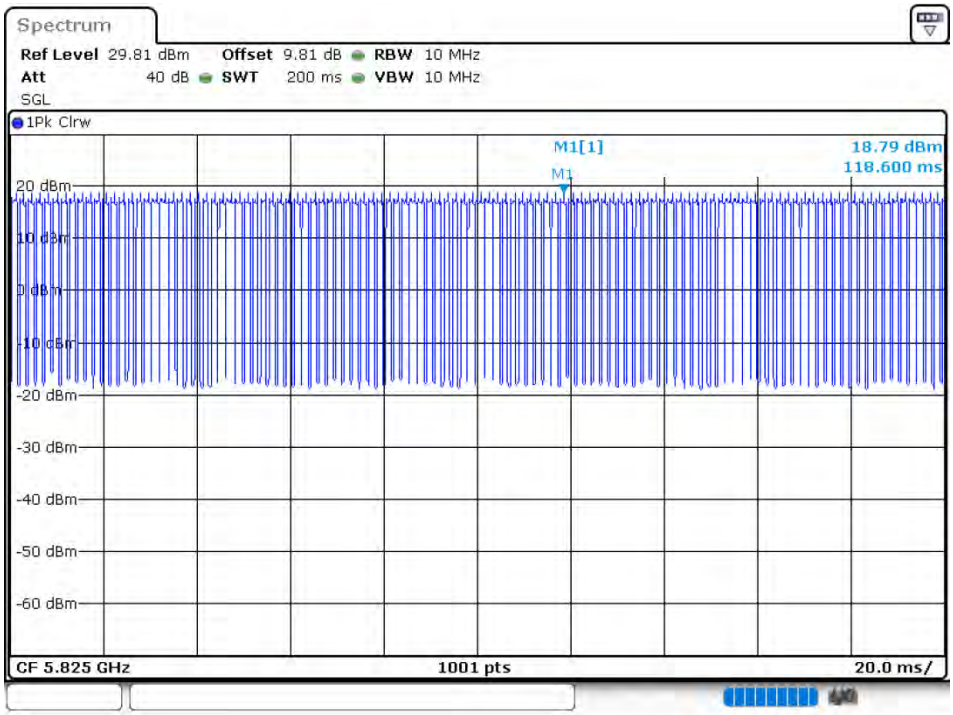
Duty Cycle NVNT 802.11ac20 5745MHz Ant 2



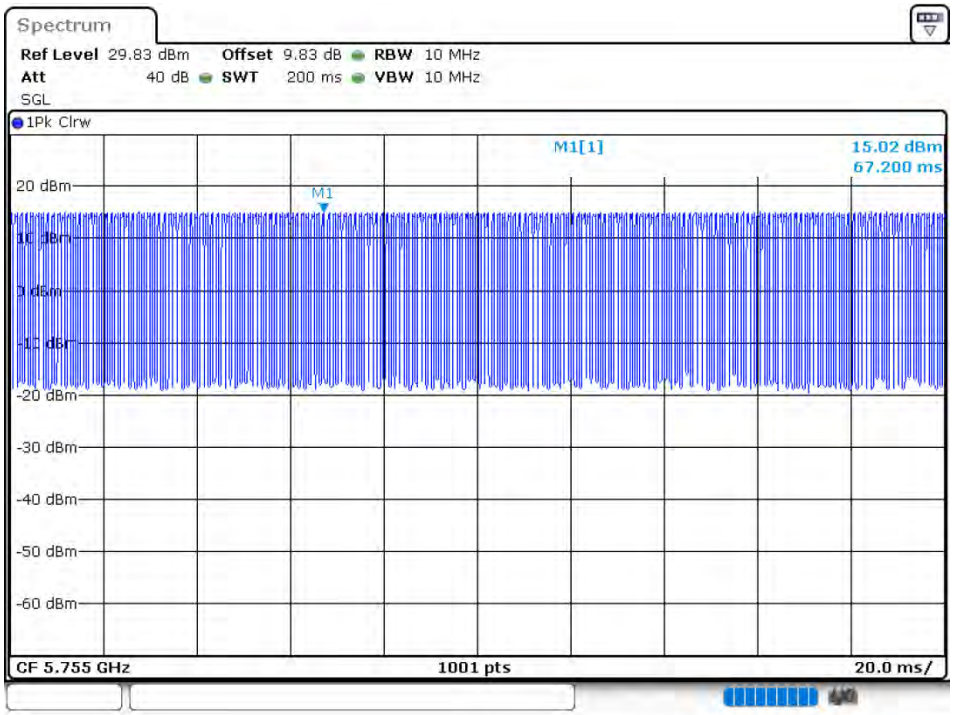
Duty Cycle NVNT 802.11ac20 5785MHz Ant 2



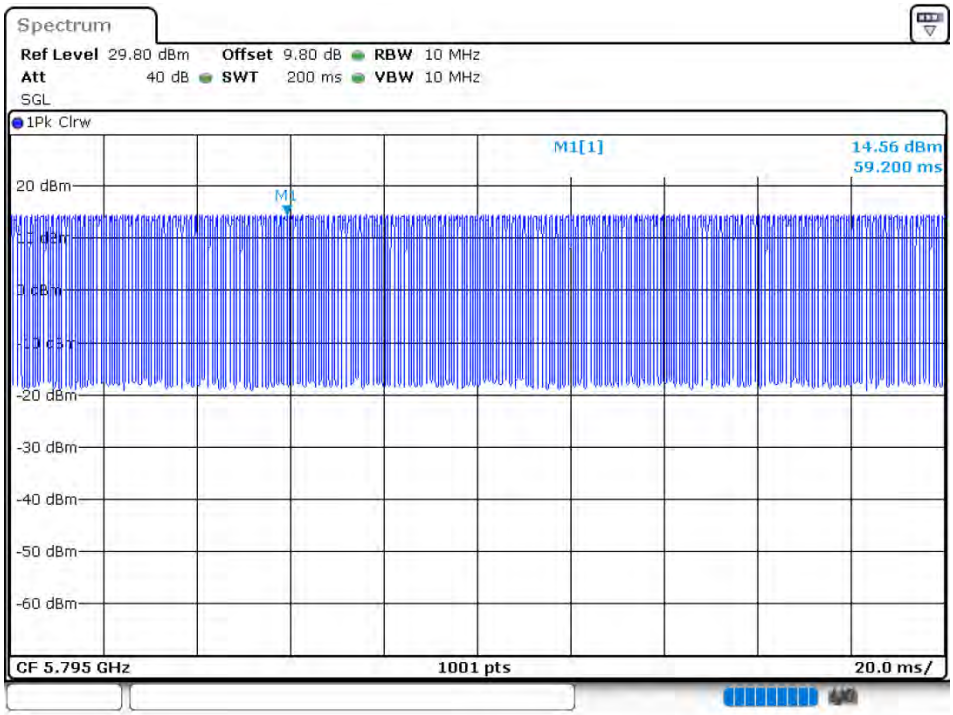
Duty Cycle NVNT 802.11ac20 5825MHz Ant 2



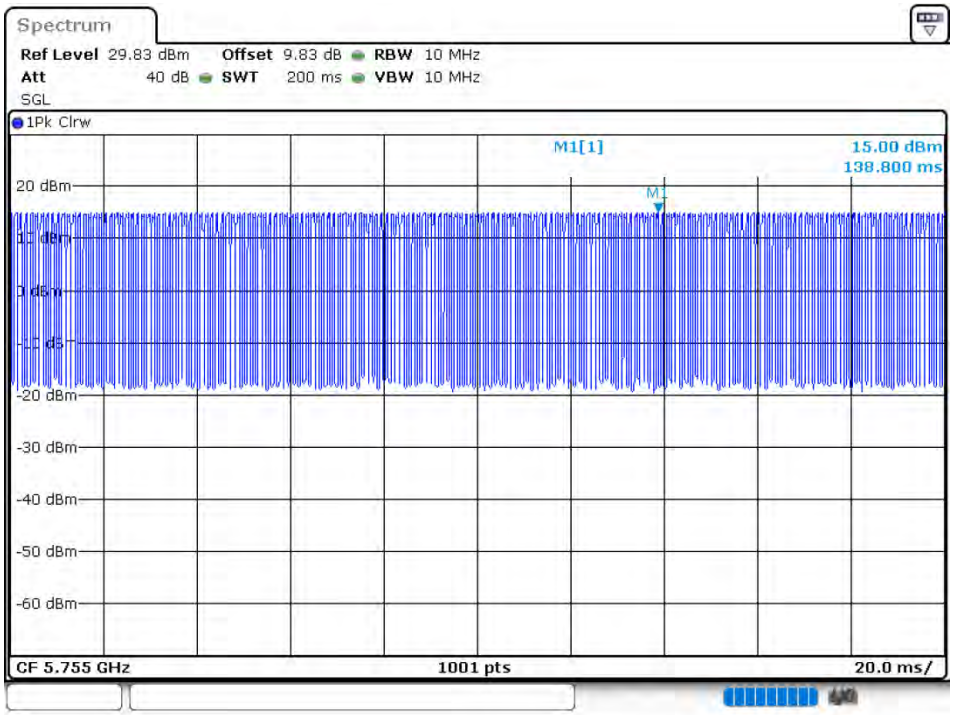
Duty Cycle NVNT 802.11ac40 5755MHz Ant 1



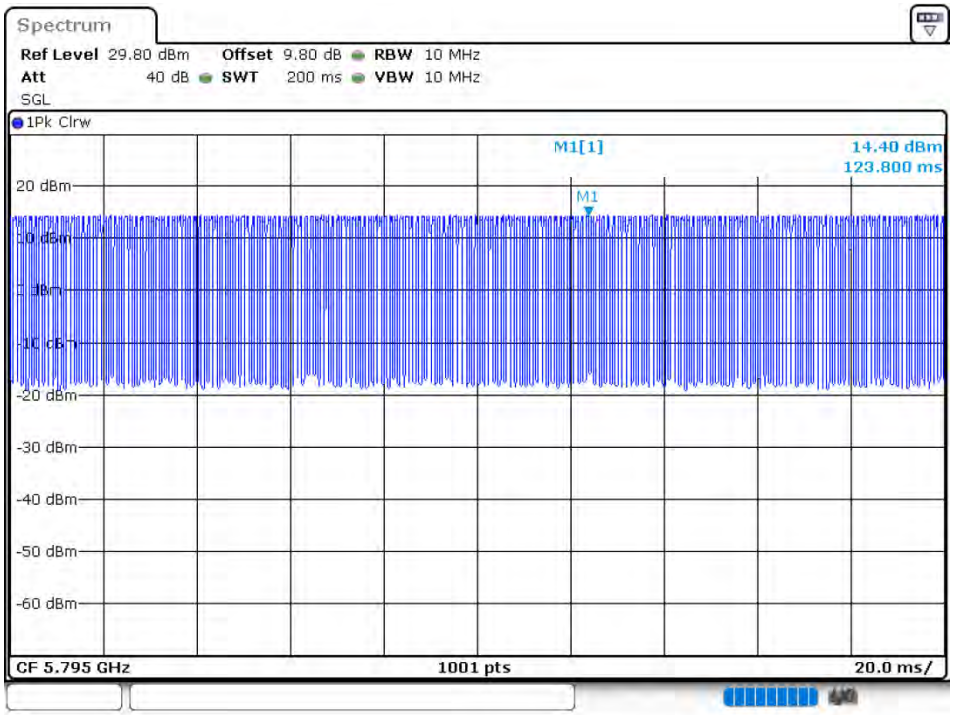
Duty Cycle NVNT 802.11ac40 5795MHz Ant 1



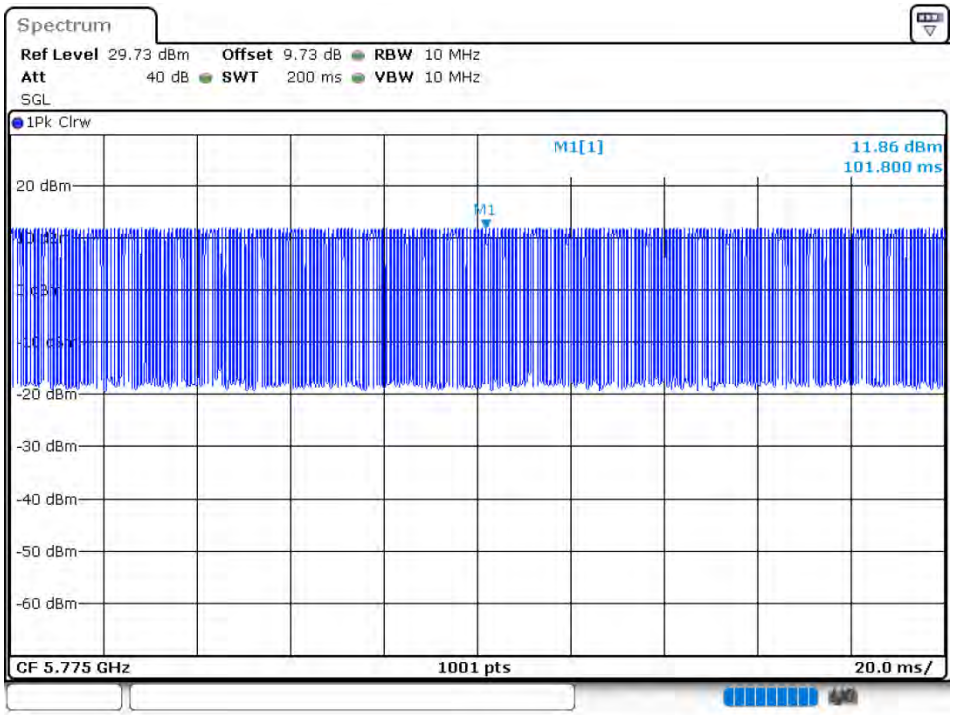
Duty Cycle NVNT 802.11ac40 5755MHz Ant 2



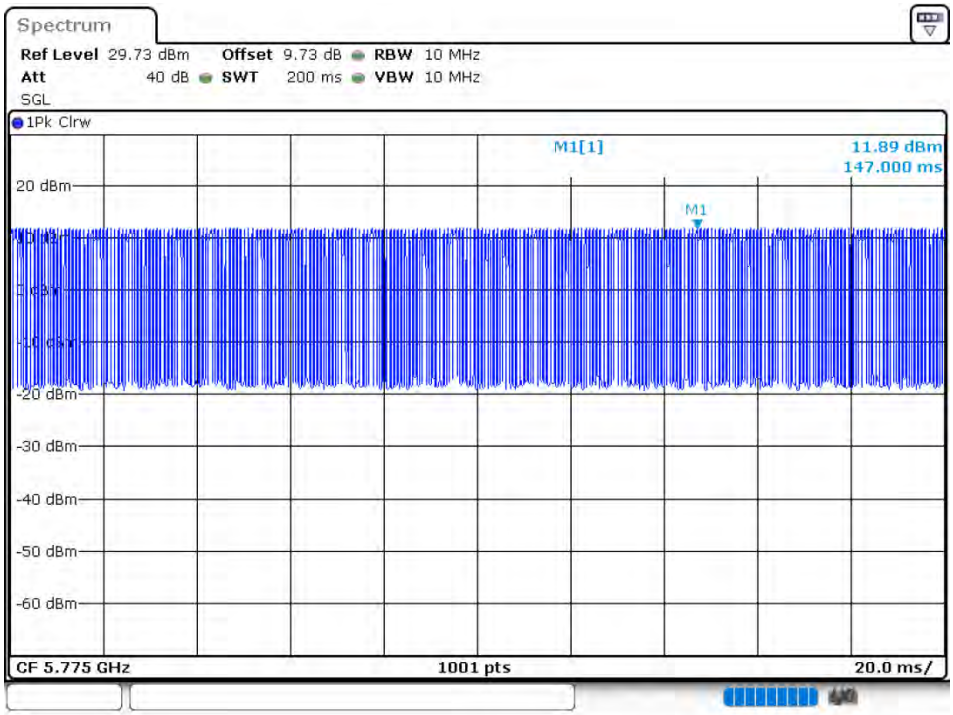
Duty Cycle NVNT 802.11ac40 5795MHz Ant 2



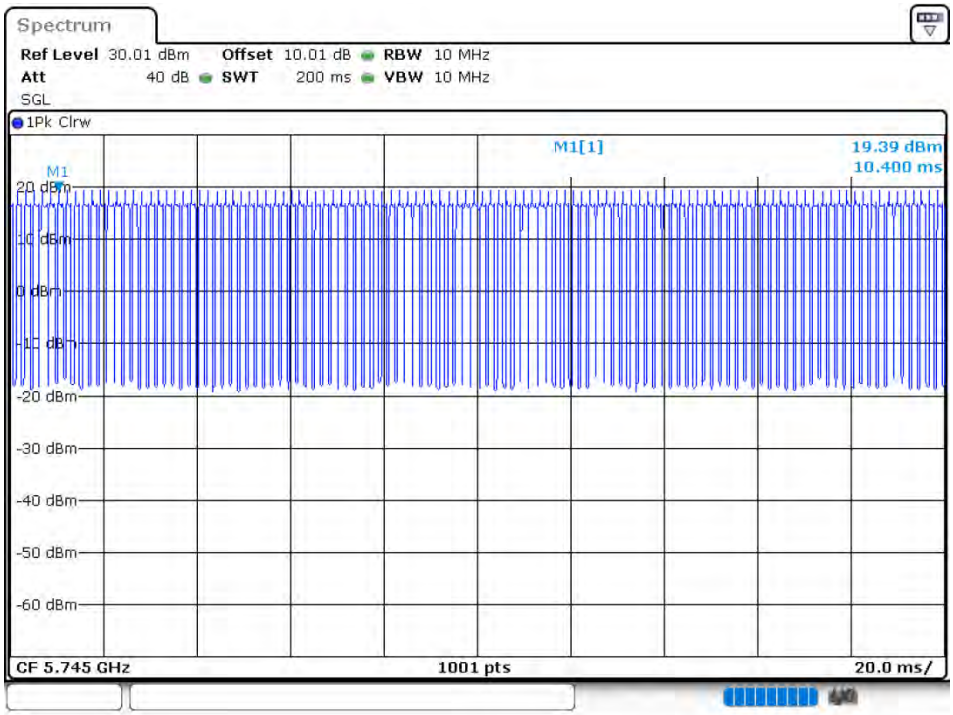
Duty Cycle NVNT 802.11ac80 5775MHz Ant 1



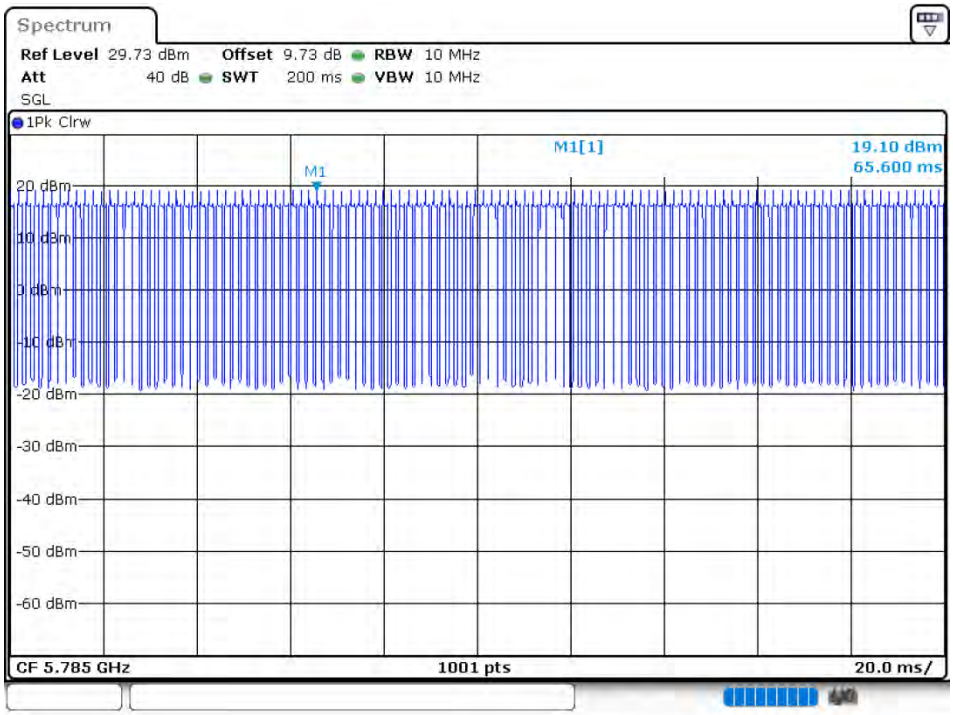
Duty Cycle NVNT 802.11ac80 5775MHz Ant 2



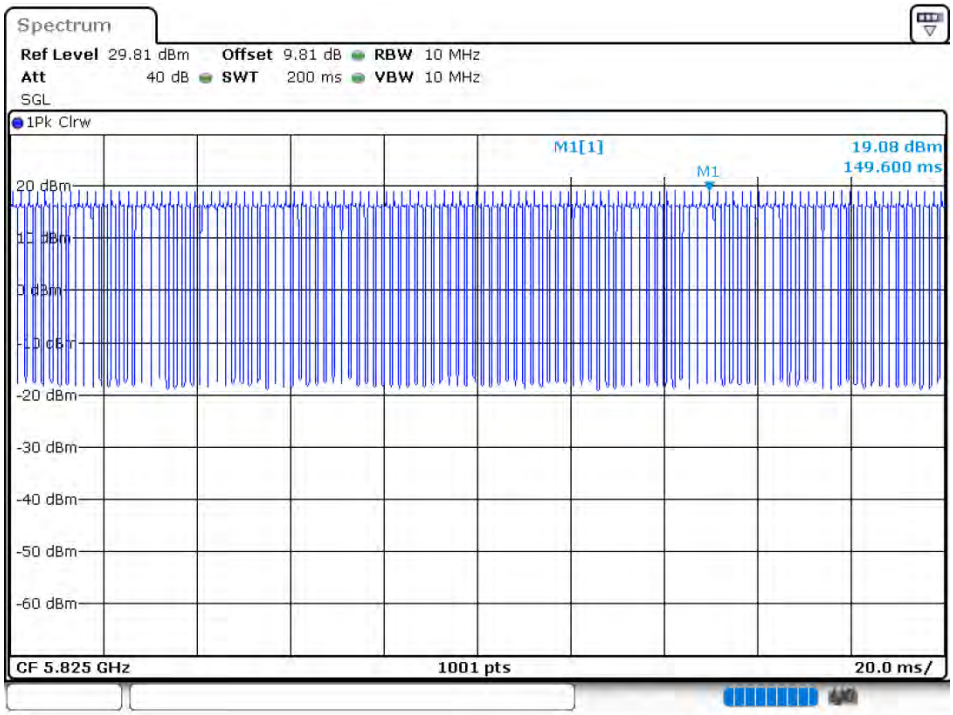
Duty Cycle NVNT 802.11n(HT20) 5745MHz Ant 1



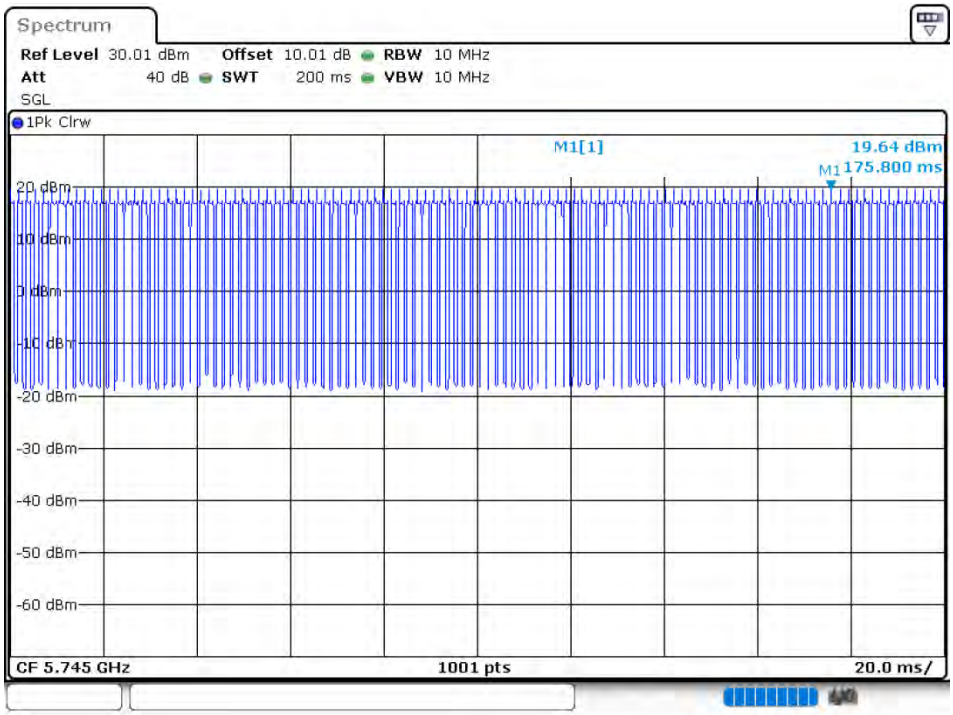
Duty Cycle NVNT 802.11n(HT20) 5785MHz Ant 1



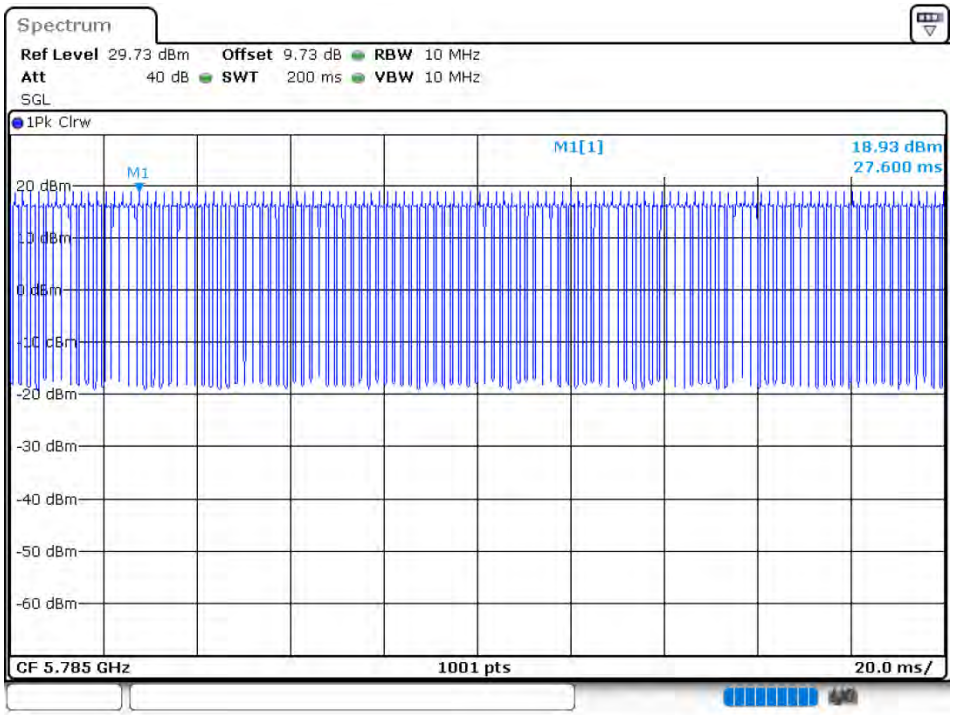
Duty Cycle NVNT 802.11n(HT20) 5825MHz Ant 1



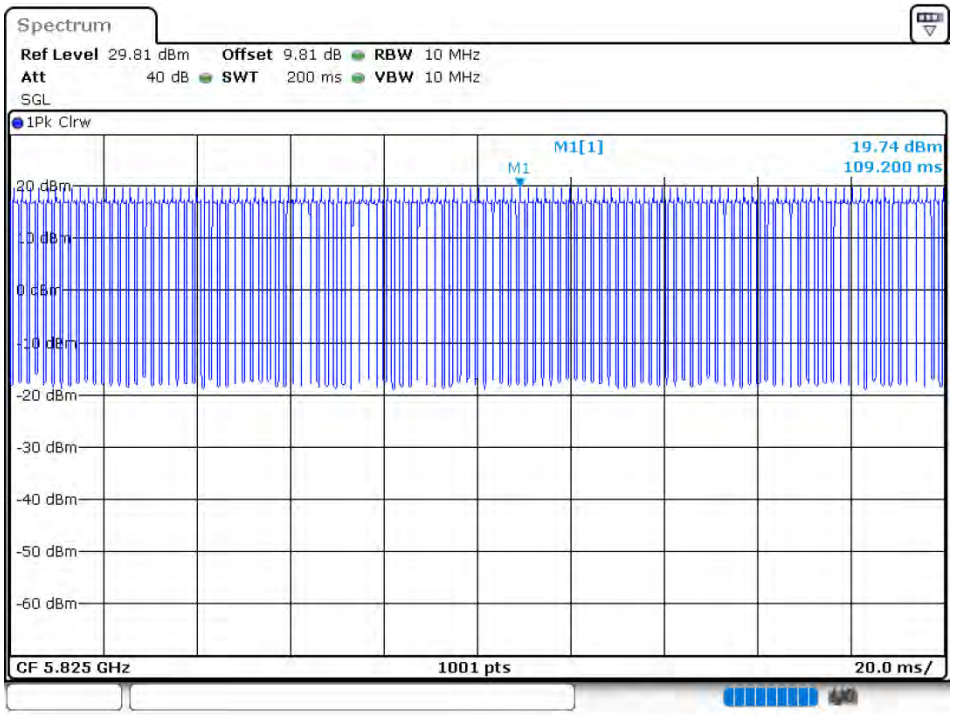
Duty Cycle NVNT 802.11n(HT20) 5745MHz Ant 2



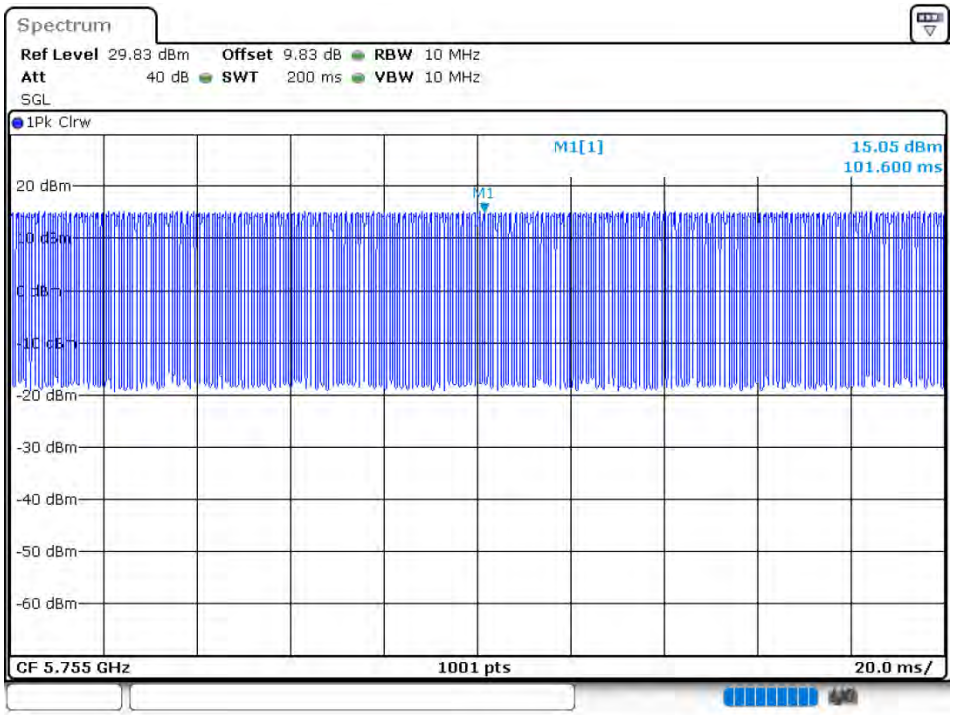
Duty Cycle NVNT 802.11n(HT20) 5785MHz Ant 2



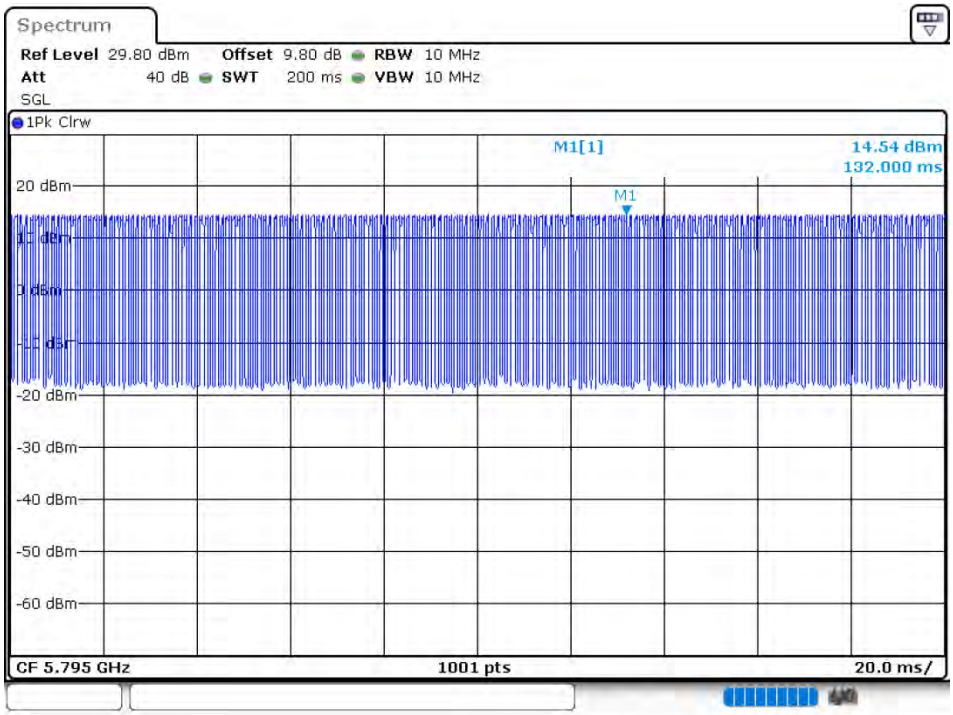
Duty Cycle NVNT 802.11n(HT20) 5825MHz Ant 2



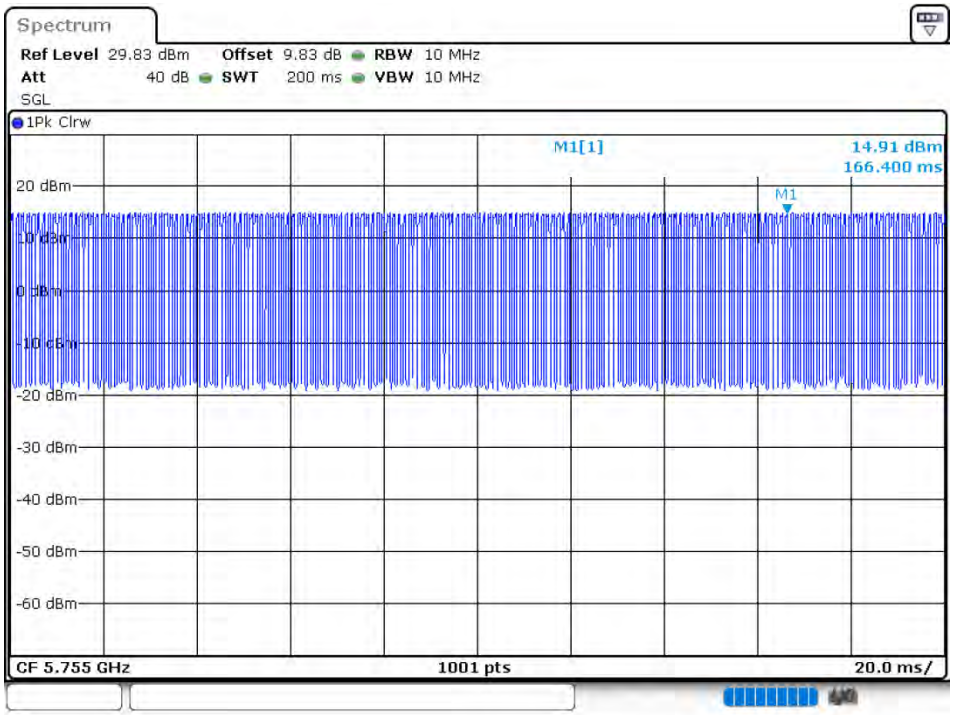
Duty Cycle NVNT 802.11n(HT40) 5755MHz Ant 1



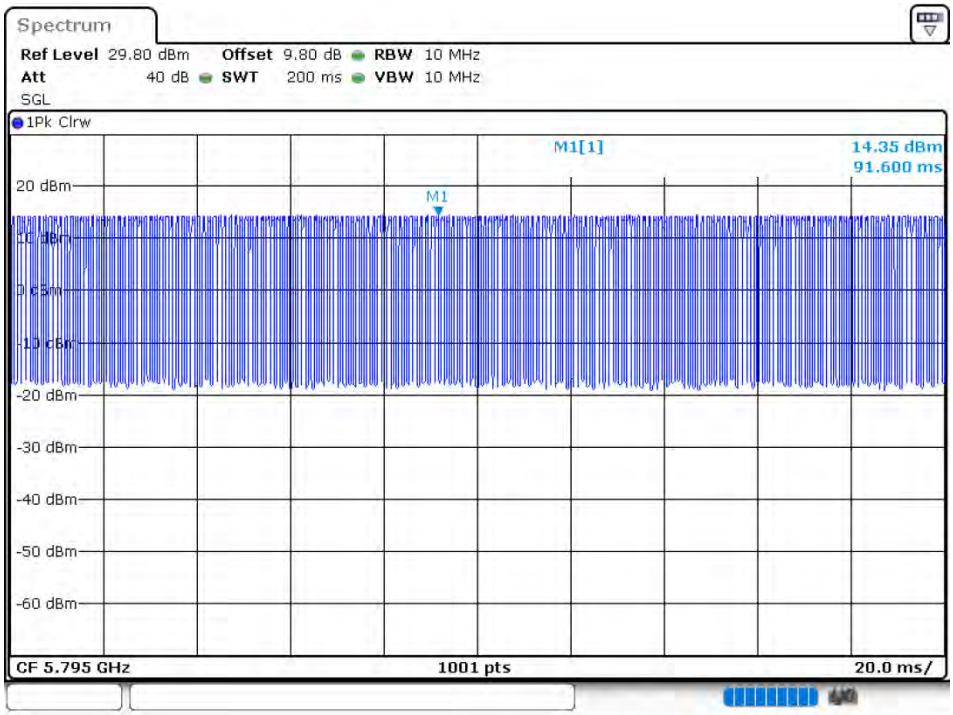
Duty Cycle NVNT 802.11n(HT40) 5795MHz Ant 1



Duty Cycle NVNT 802.11n(HT40) 5755MHz Ant 2



Duty Cycle NVNT 802.11n(HT40) 5795MHz Ant 2



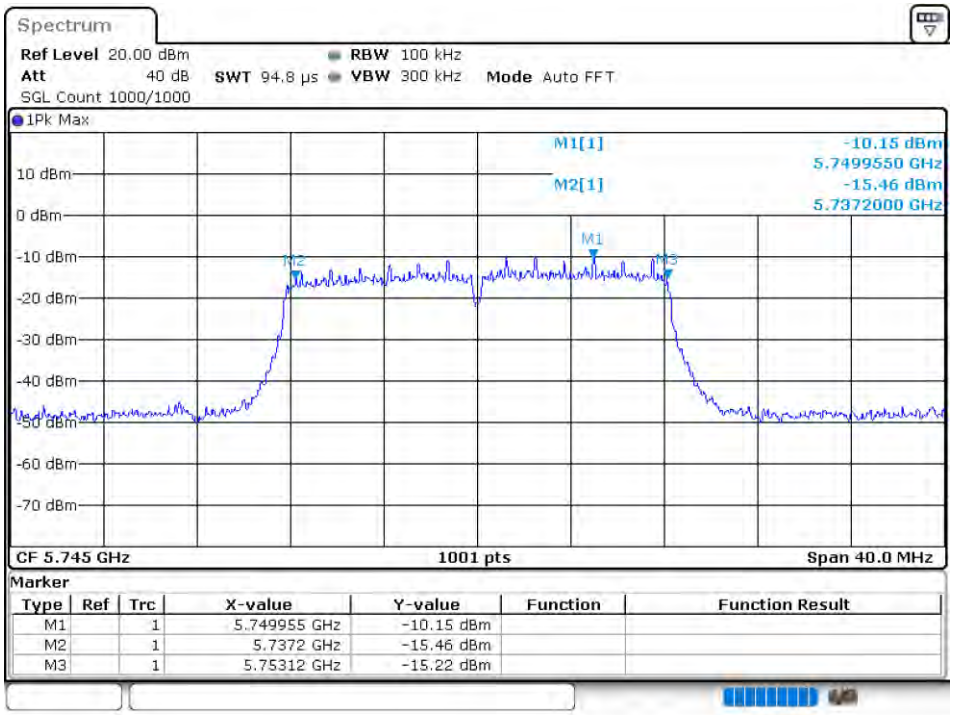
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant 1	9.67	0	9.67		29.67	Pass
NVNT	a	5785	Ant 1	9.64	0	9.64		29.67	Pass
NVNT	a	5825	Ant 1	9.52	0	9.52		29.67	Pass
NVNT	a	5745	Ant 2	9.9	0	9.9		30	Pass
NVNT	a	5785	Ant 2	9.66	0	9.66		30	Pass
NVNT	a	5825	Ant 2	9.85	0	9.85		30	Pass
NVNT	ac20	5745	Ant 1	9.53	0	9.53	12.70	27.11	Pass
NVNT	ac20	5745	Ant 2	9.85	0	9.85			Pass
NVNT	ac20	5785	Ant 1	9.51	0	9.51	12.56	27.11	Pass
NVNT	ac20	5785	Ant 2	9.58	0	9.58			Pass
NVNT	ac20	5825	Ant 1	9.4	0	9.4	12.67	27.11	Pass
NVNT	ac20	5825	Ant 2	9.91	0	9.91			Pass
NVNT	ac40	5755	Ant 1	9.18	0	9.18	12.17	27.11	Pass
NVNT	ac40	5755	Ant 2	9.14	0	9.14			Pass
NVNT	ac40	5795	Ant 1	9.06	0	9.06	12.11	27.11	Pass
NVNT	ac40	5795	Ant 2	9.13	0	9.13			Pass
NVNT	ac80	5775	Ant 1	9.28	0	9.28	12.21	27.11	Pass
NVNT	ac80	5775	Ant 2	9.11	0	9.11			Pass
NVNT	n20	5745	Ant 1	9.49	0	9.49	12.78	27.11	Pass
NVNT	n20	5745	Ant 2	10.04	0	10.04			Pass
NVNT	n20	5785	Ant 1	9.54	0	9.54	12.61	27.11	Pass
NVNT	n20	5785	Ant 2	9.65	0	9.65			Pass
NVNT	n20	5825	Ant 1	9.44	0	9.44	12.81	27.11	Pass
NVNT	n20	5825	Ant 2	10.14	0	10.14			Pass
NVNT	n40	5755	Ant 1	9.16	0	9.16	12.16	27.11	Pass
NVNT	n40	5755	Ant 2	9.13	0	9.13			Pass
NVNT	n40	5795	Ant 1	9.08	0	9.08	12.12	27.11	Pass
NVNT	n40	5795	Ant 2	9.14	0	9.14			Pass

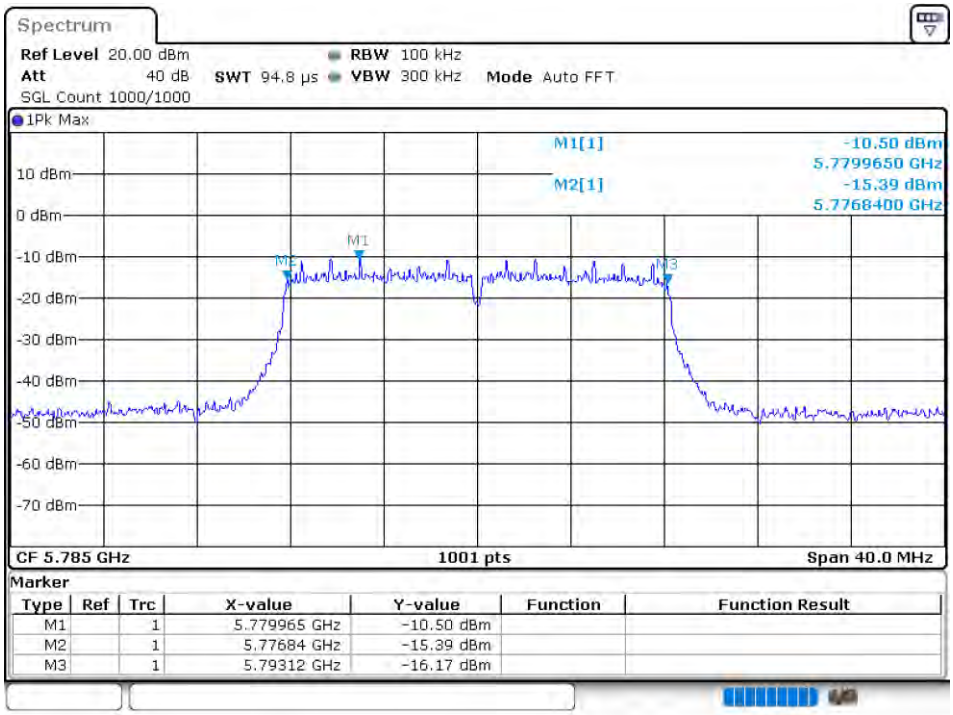
-6dB Emission Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	Ant 1	15.92	0.5	Pass
NVNT	802.11a	5785	Ant 1	16.28	0.5	Pass
NVNT	802.11a	5825	Ant 1	16.28	0.5	Pass
NVNT	802.11a	5745	Ant 2	15.96	0.5	Pass
NVNT	802.11a	5785	Ant 2	16.32	0.5	Pass
NVNT	802.11a	5825	Ant 2	16.28	0.5	Pass
NVNT	802.11ac20	5745	Ant 1	16.56	0.5	Pass
NVNT	802.11ac20	5785	Ant 1	17.32	0.5	Pass
NVNT	802.11ac20	5825	Ant 1	17.2	0.5	Pass
NVNT	802.11ac20	5745	Ant 2	16.92	0.5	Pass
NVNT	802.11ac20	5785	Ant 2	17.28	0.5	Pass
NVNT	802.11ac20	5825	Ant 2	17.32	0.5	Pass
NVNT	802.11ac40	5755	Ant 1	35.04	0.5	Pass
NVNT	802.11ac40	5795	Ant 1	35.52	0.5	Pass
NVNT	802.11ac40	5755	Ant 2	35.04	0.5	Pass
NVNT	802.11ac40	5795	Ant 2	35.44	0.5	Pass
NVNT	802.11ac80	5775	Ant 1	70.08	0.5	Pass
NVNT	802.11ac80	5775	Ant 2	57.6	0.5	Pass
NVNT	802.11n(HT20)	5745	Ant 1	16.64	0.5	Pass
NVNT	802.11n(HT20)	5785	Ant 1	17.52	0.5	Pass
NVNT	802.11n(HT20)	5825	Ant 1	16.92	0.5	Pass
NVNT	802.11n(HT20)	5745	Ant 2	16.92	0.5	Pass
NVNT	802.11n(HT20)	5785	Ant 2	17.16	0.5	Pass
NVNT	802.11n(HT20)	5825	Ant 2	17.56	0.5	Pass
NVNT	802.11n(HT40)	5755	Ant 1	35.04	0.5	Pass
NVNT	802.11n(HT40)	5795	Ant 1	35.52	0.5	Pass
NVNT	802.11n(HT40)	5755	Ant 2	35.04	0.5	Pass
NVNT	802.11n(HT40)	5795	Ant 2	35.52	0.5	Pass

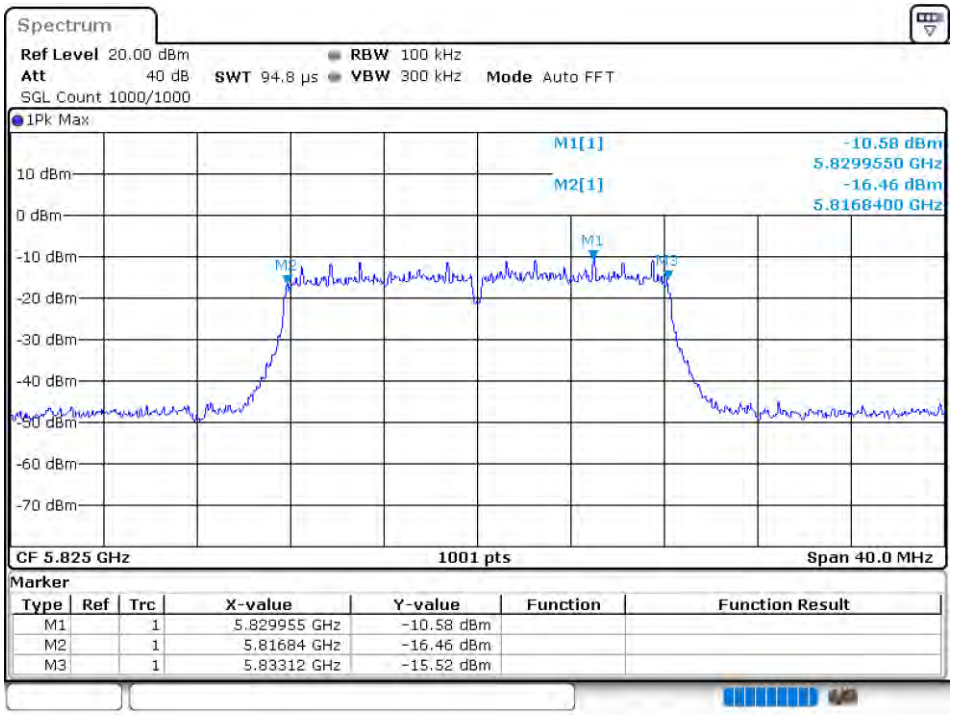
EBW NVNT 802.11a 5745MHz Ant 1



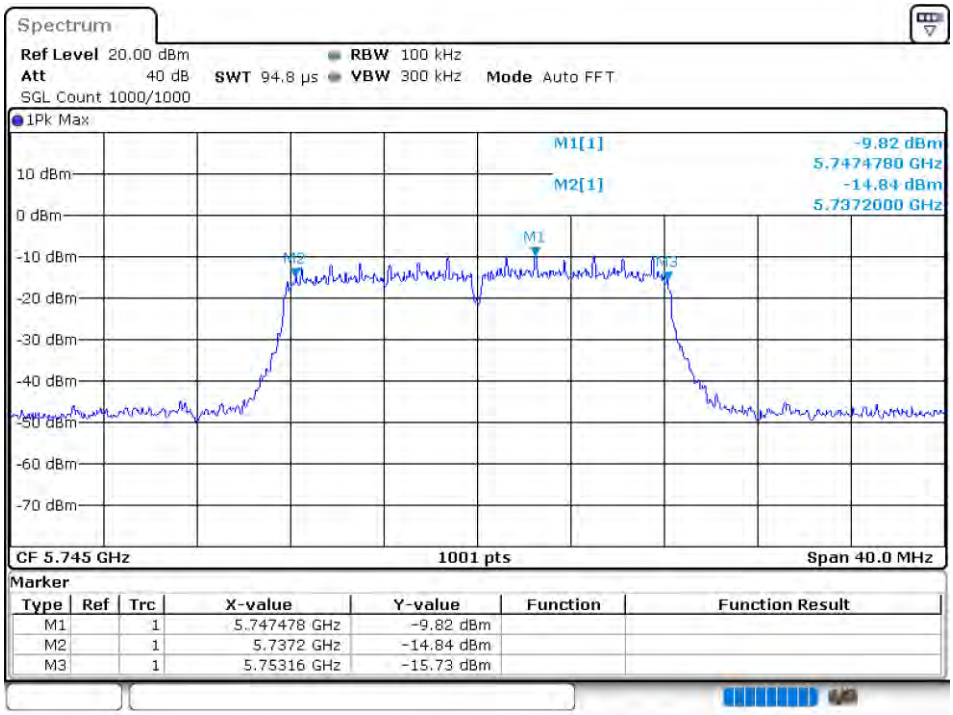
EBW NVNT 802.11a 5785MHz Ant 1



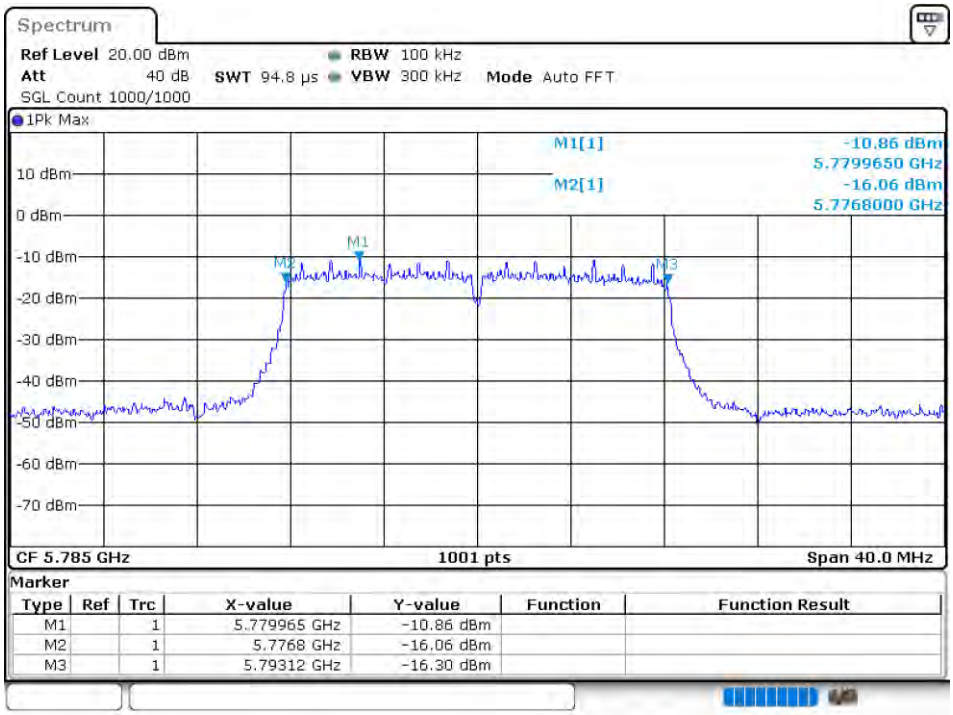
EBW NVNT 802.11a 5825MHz Ant 1



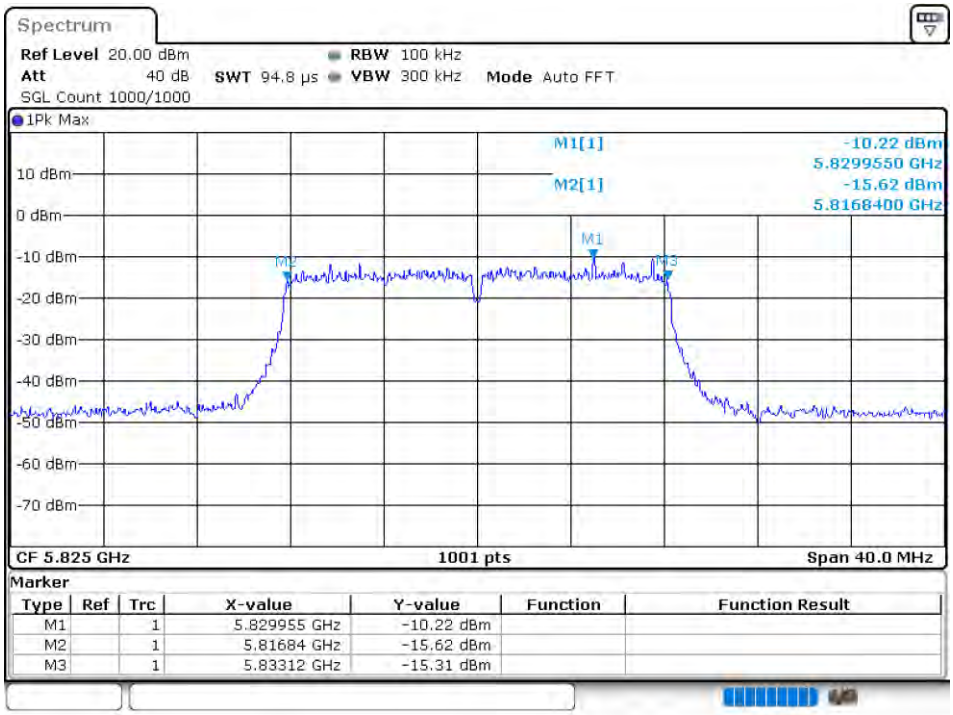
EBW NVNT 802.11a 5745MHz Ant 2



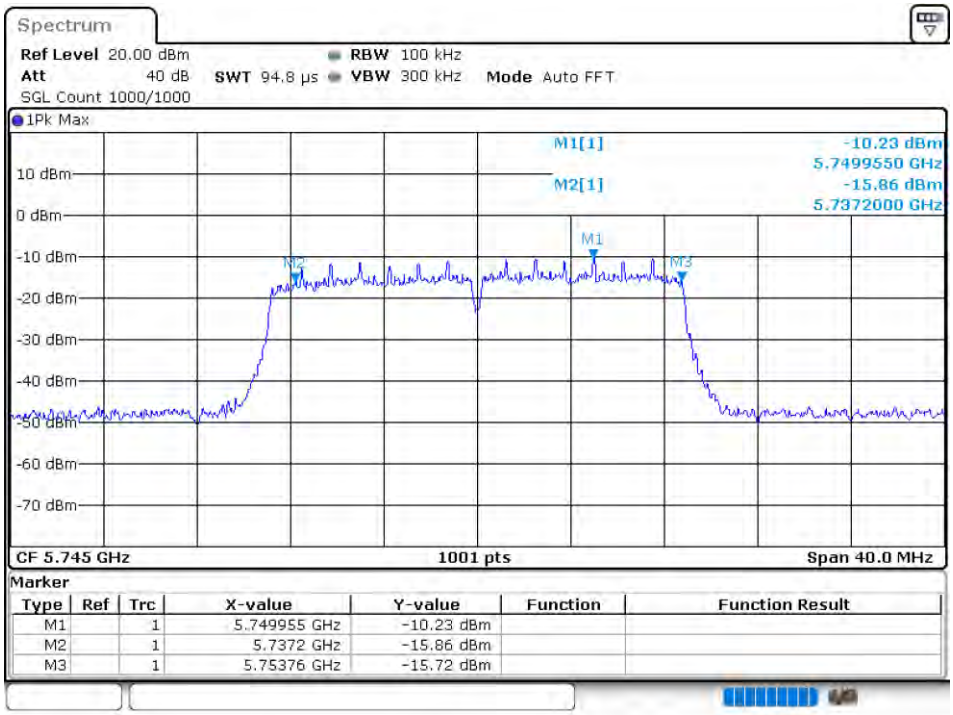
EBW NVNT 802.11a 5785MHz Ant 2



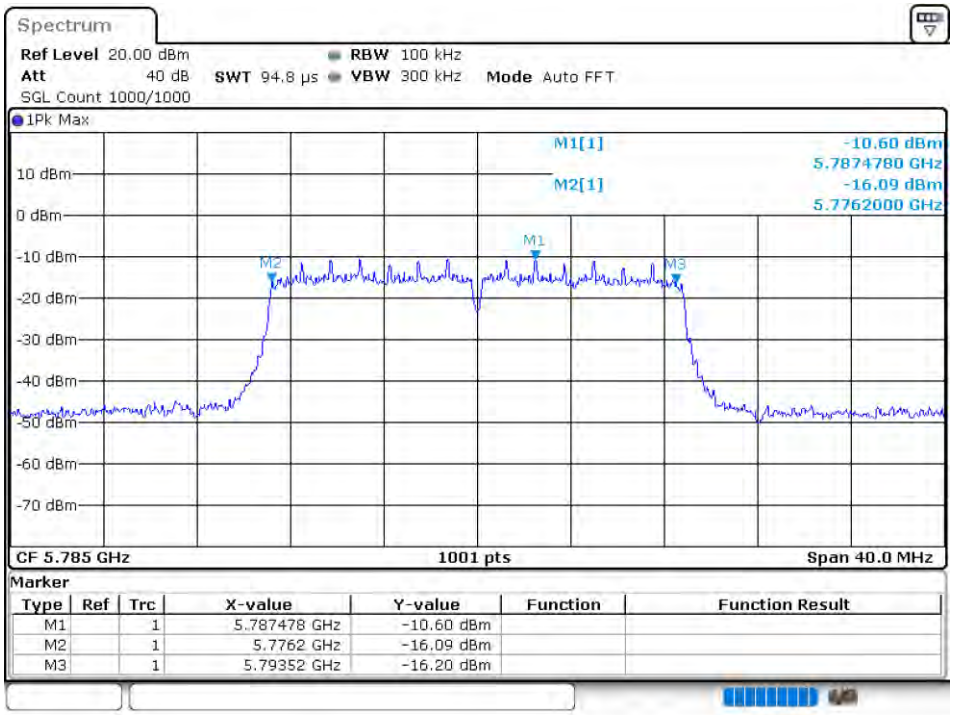
EBW NVNT 802.11a 5825MHz Ant 2



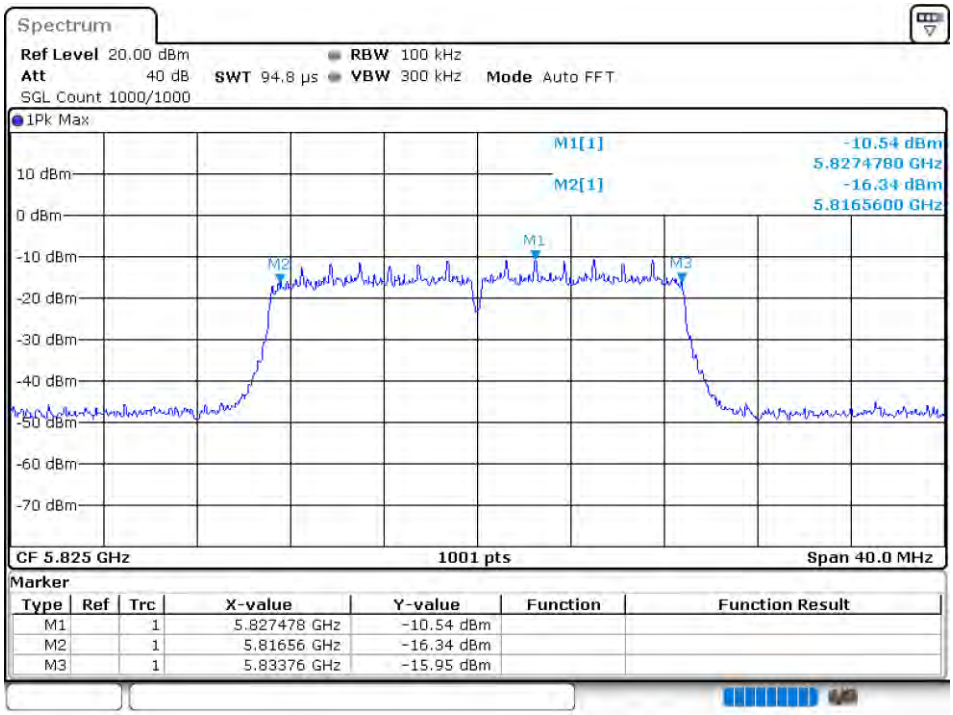
EBW NVNT 802.11ac20 5745MHz Ant 1



EBW NVNT 802.11ac20 5785MHz Ant 1



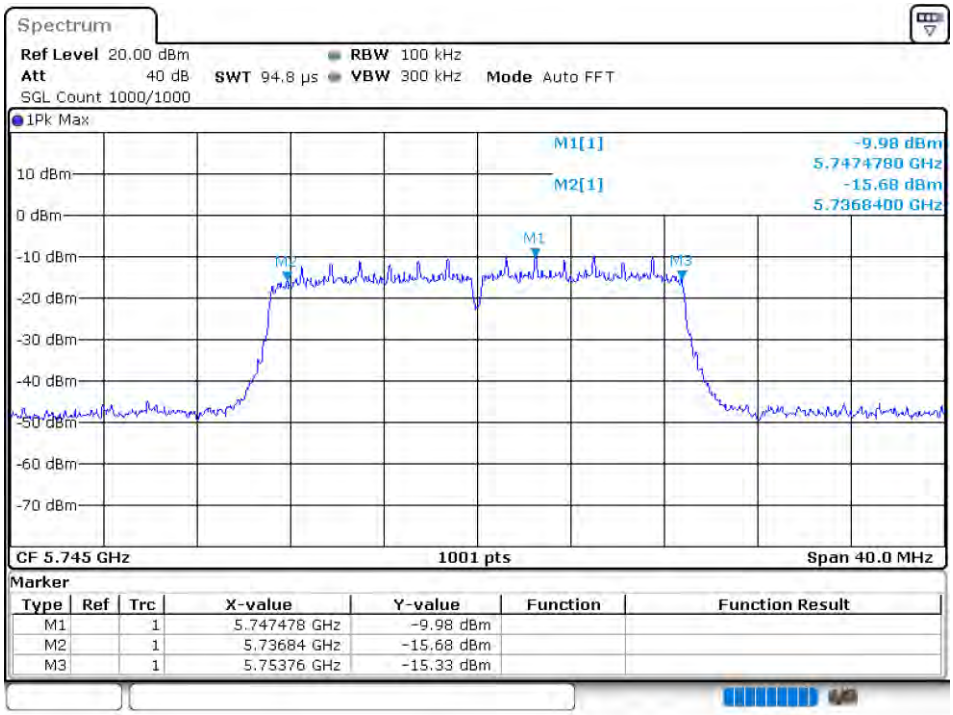
EBW NVNT 802.11ac20 5825MHz Ant 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.827478 GHz	-10.54 dBm		
M2		1	5.81656 GHz	-16.34 dBm		
M3		1	5.83376 GHz	-15.95 dBm		

EBW NVNT 802.11ac20 5745MHz Ant 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.747478 GHz	-9.98 dBm		
M2		1	5.73684 GHz	-15.68 dBm		
M3		1	5.75376 GHz	-15.33 dBm		