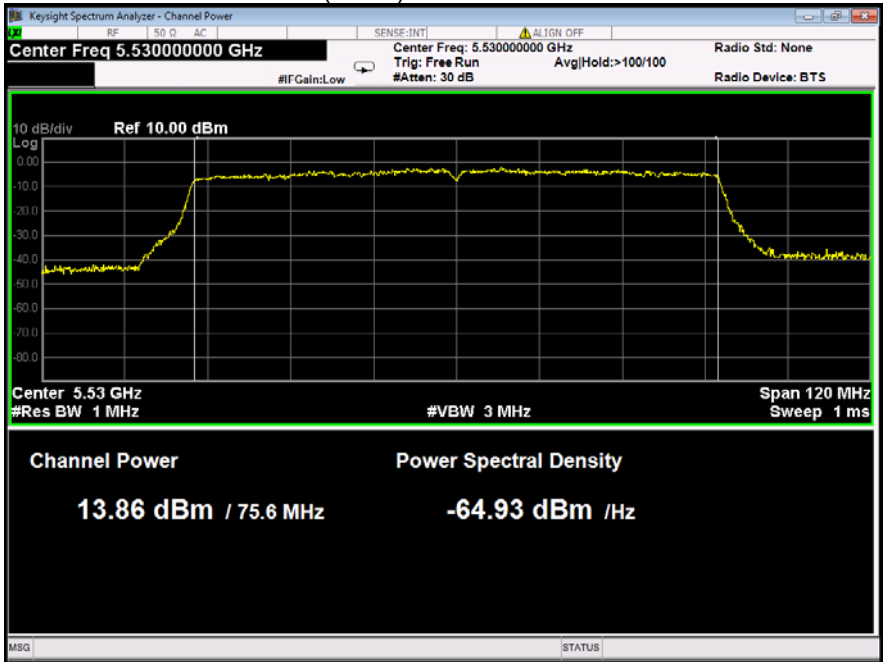
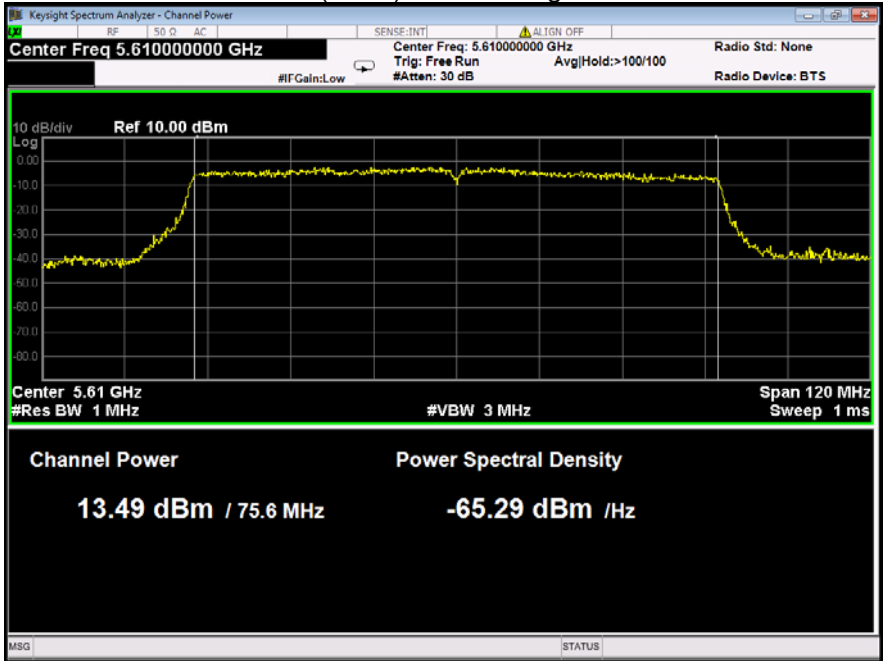


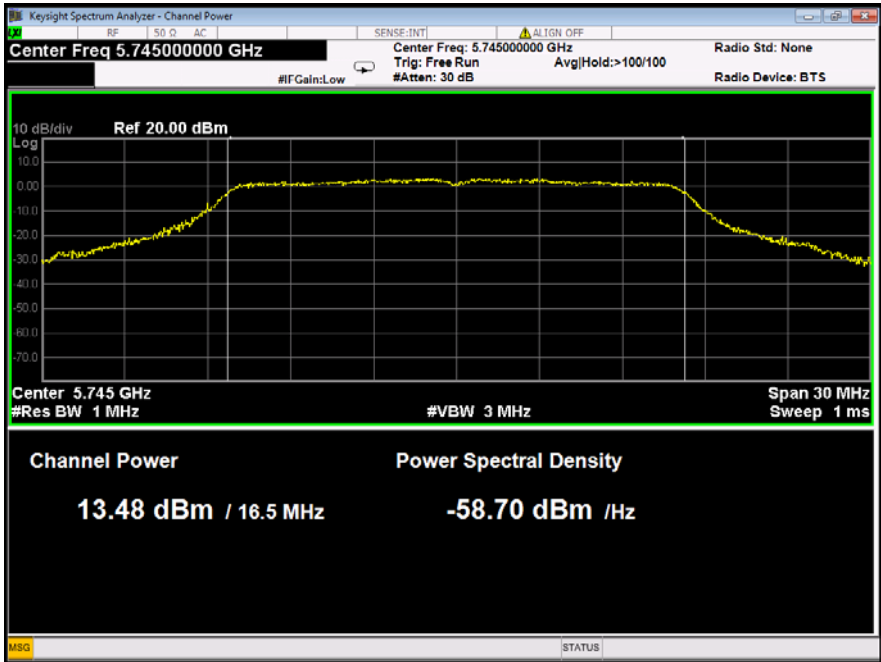
802.11ac(HT80) U-NII-2C Low channel



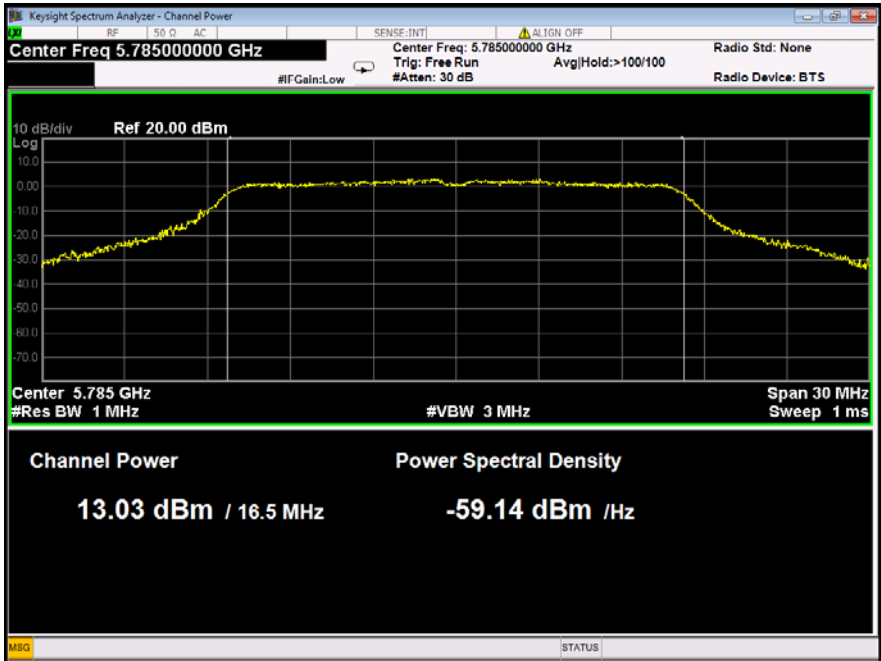
802.11ac(HT80) U-NII-2C High channel



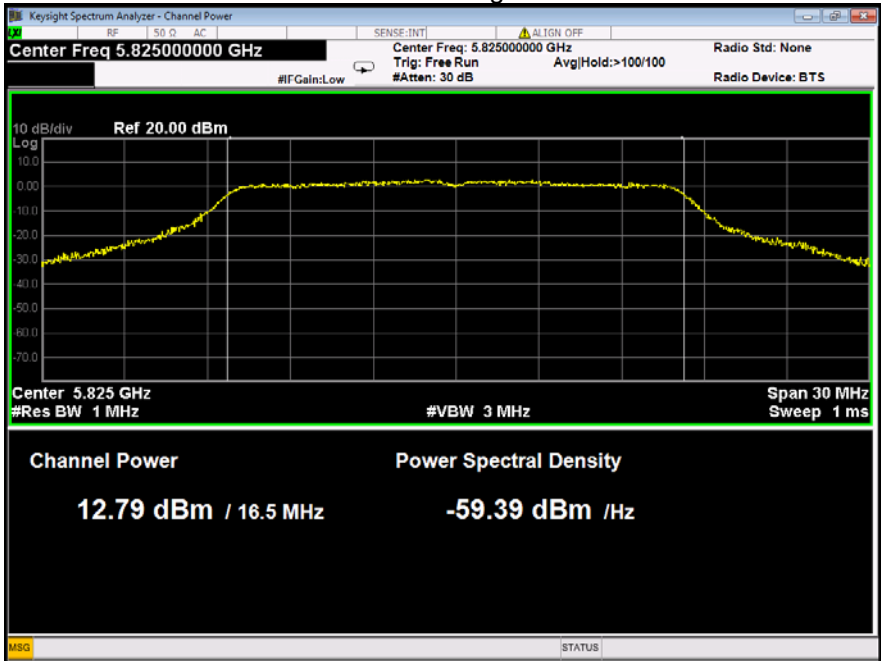
802.11a U-NII-3 Low channel



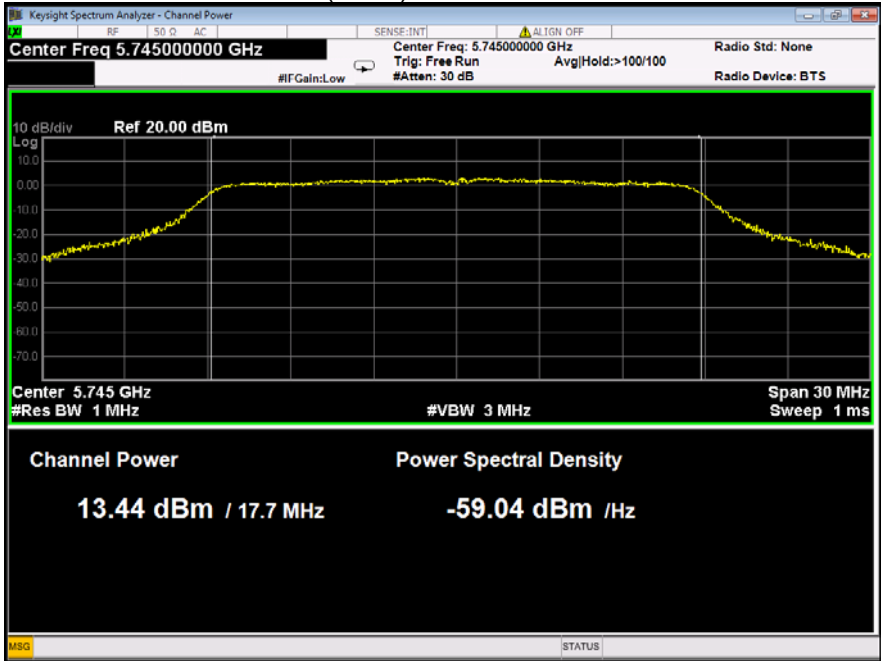
802.11a U-NII-3 Middle channel



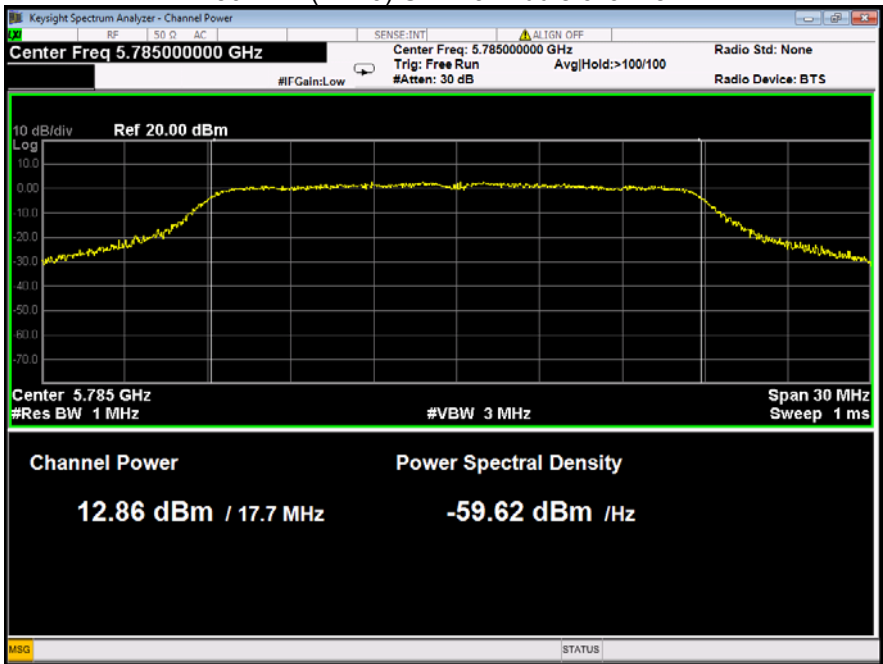
802.11a U-NII-3 High channel



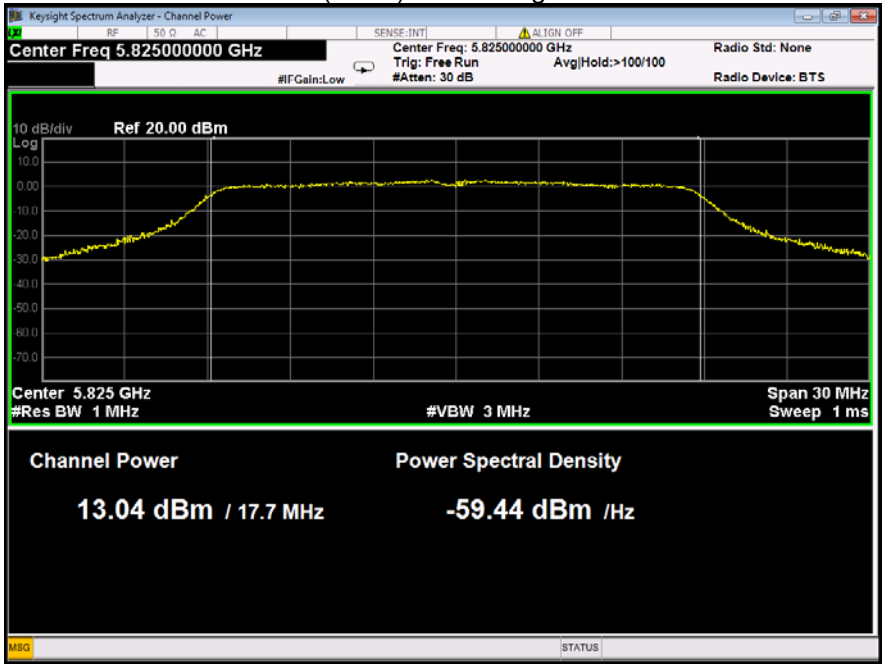
802.11n(HT20) U-NII-3 Low channel



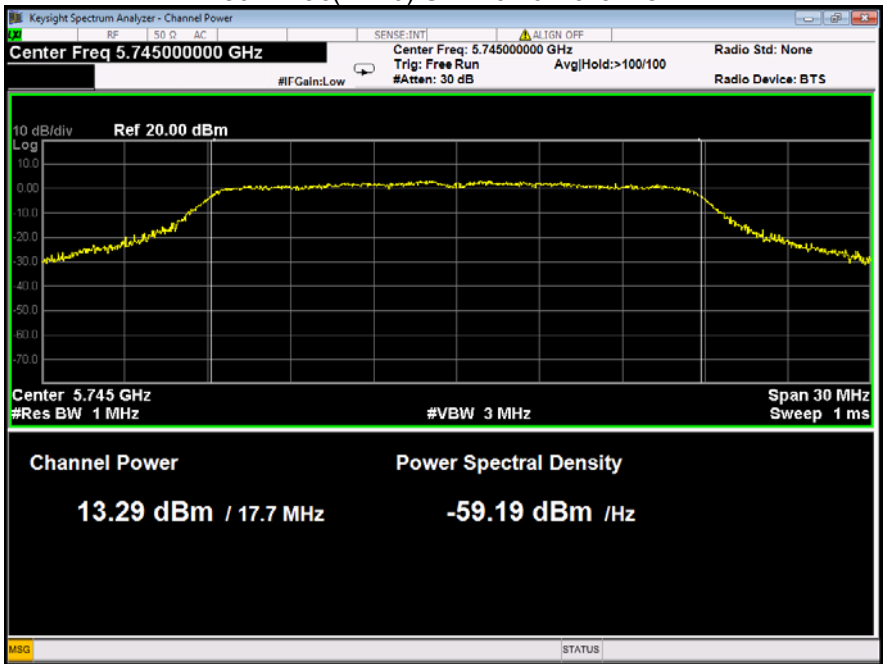
802.11n(HT20) U-NII-3 Middle channel



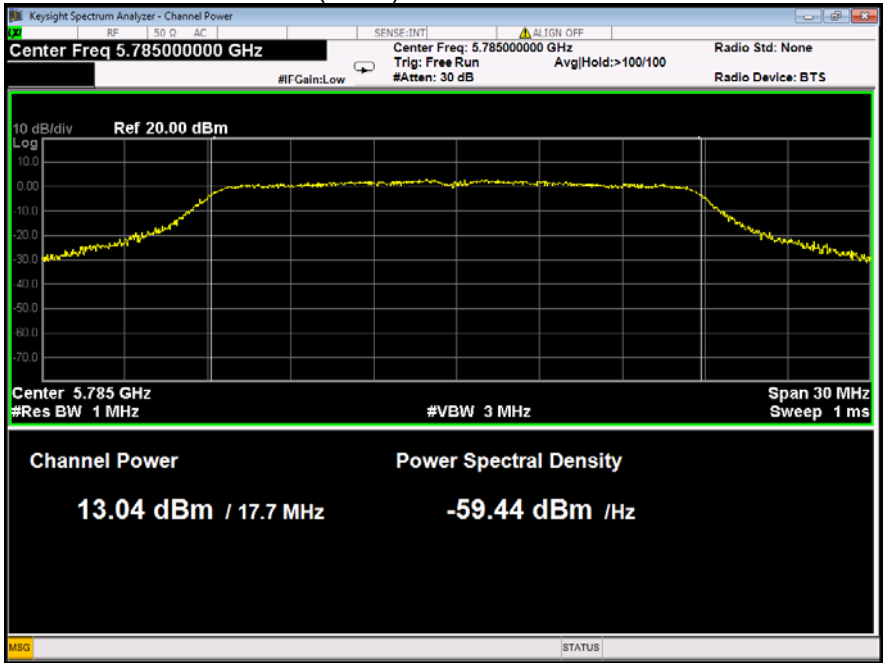
802.11n(HT20) U-NII-3 High channel



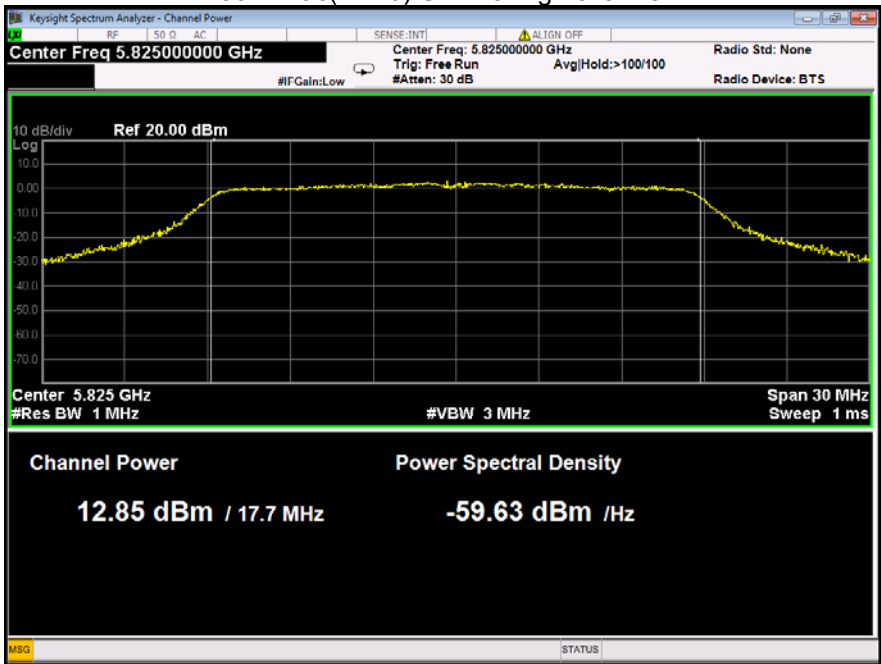
802.11ac(HT20) U-NII-3 Low channel



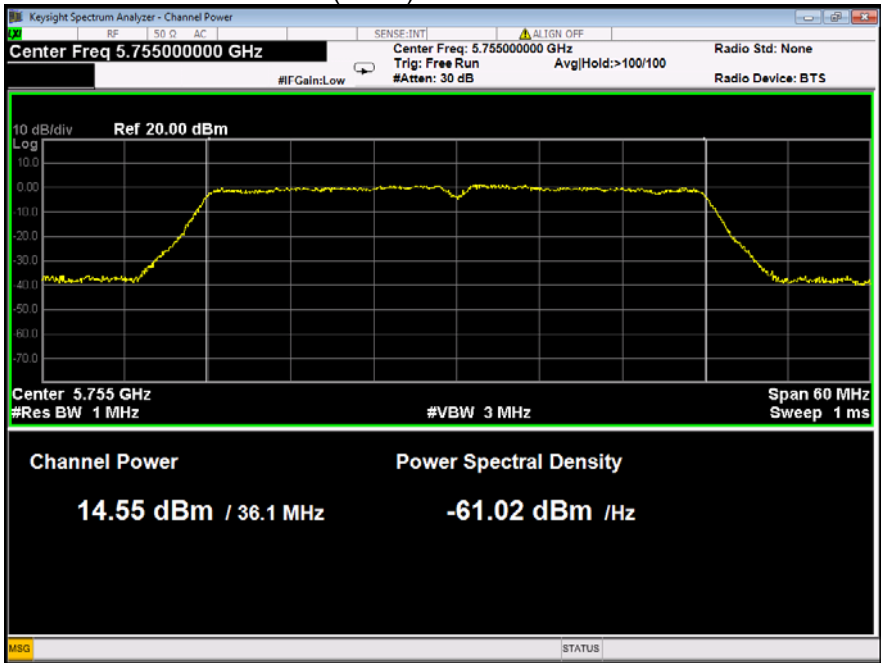
802.11ac(HT20) U-NII-3 Middle channel



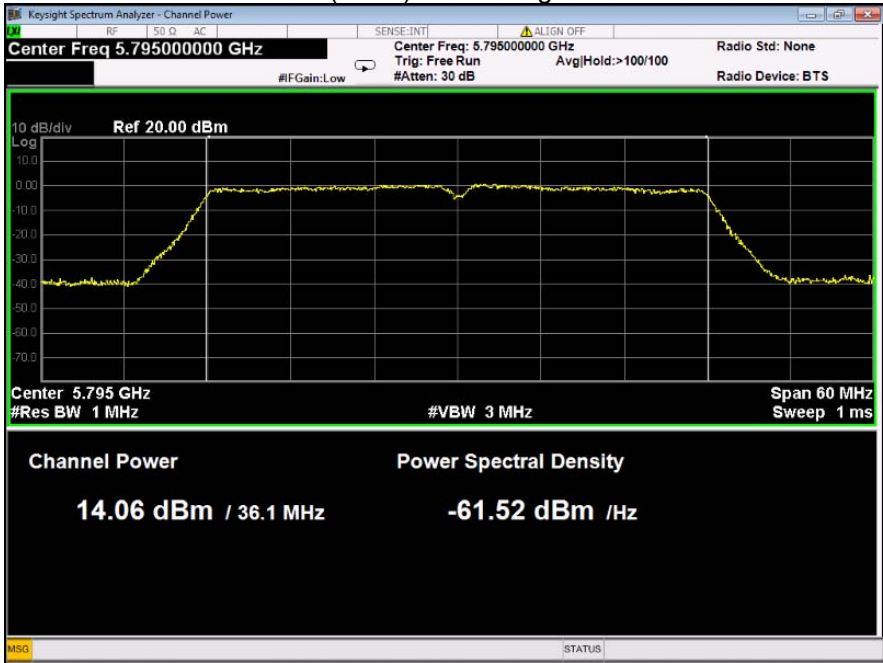
802.11ac(HT20) U-NII-3 High channel



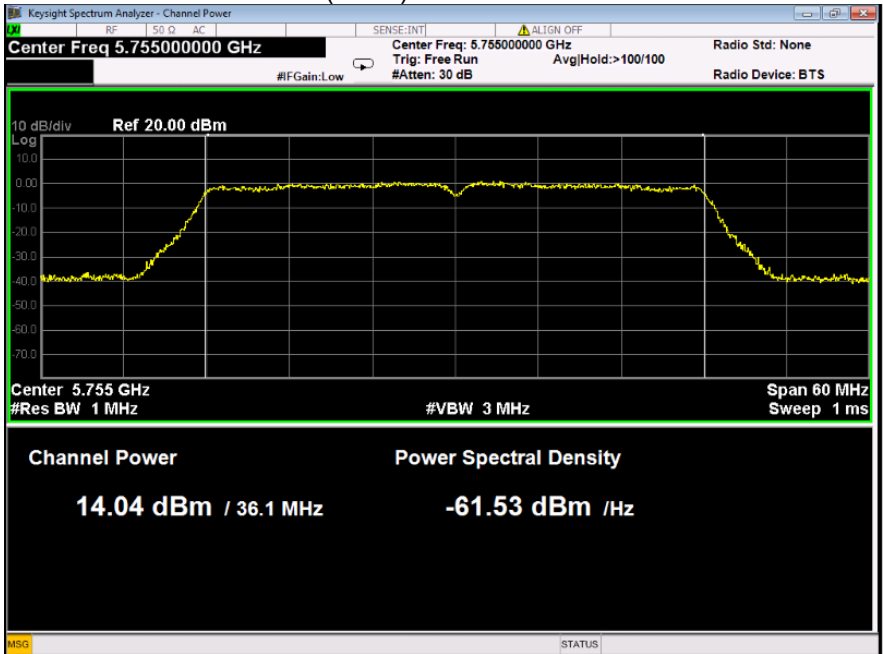
802.11ac(HT40) U-NII-3 Low channel



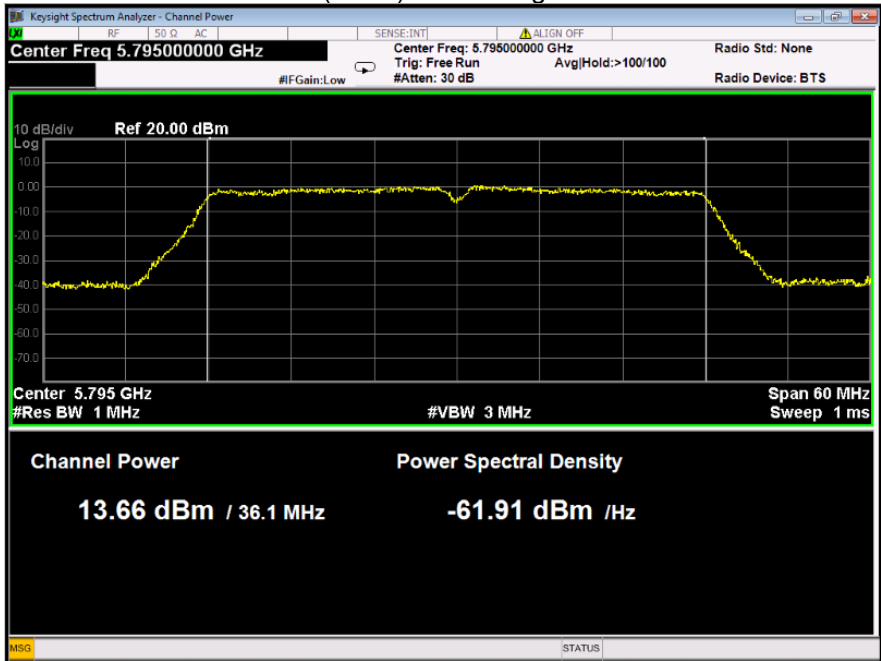
802.11ac(HT40) U-NII-3 High channel



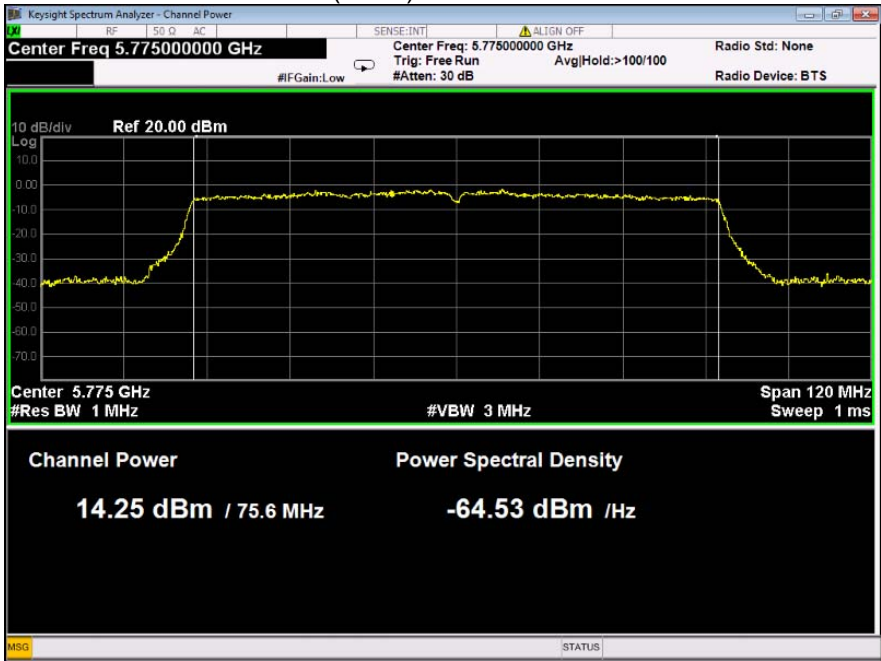
802.11n(HT40) U-NII-3 Low channel



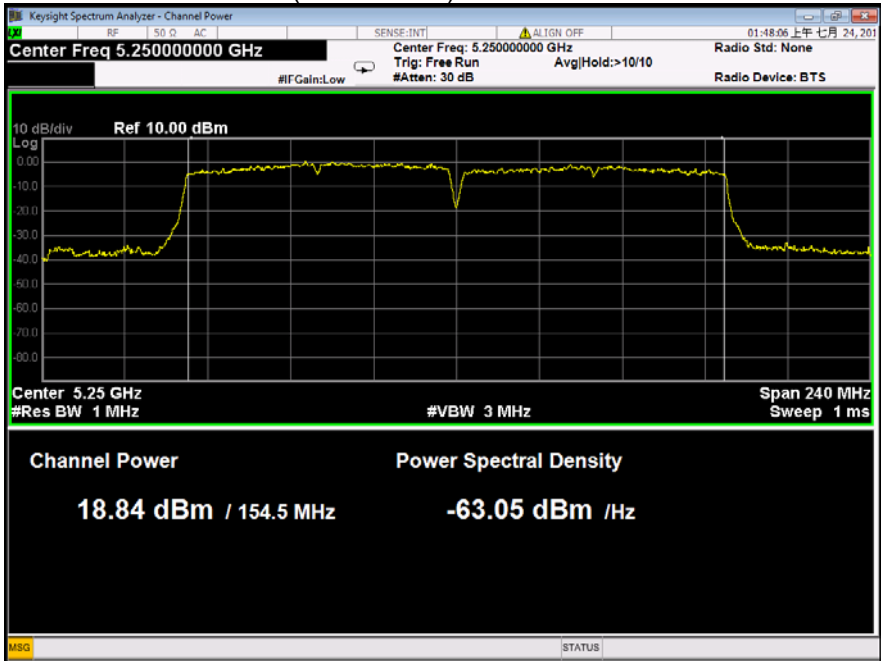
802.11n(HT40) U-NII-3 High channel



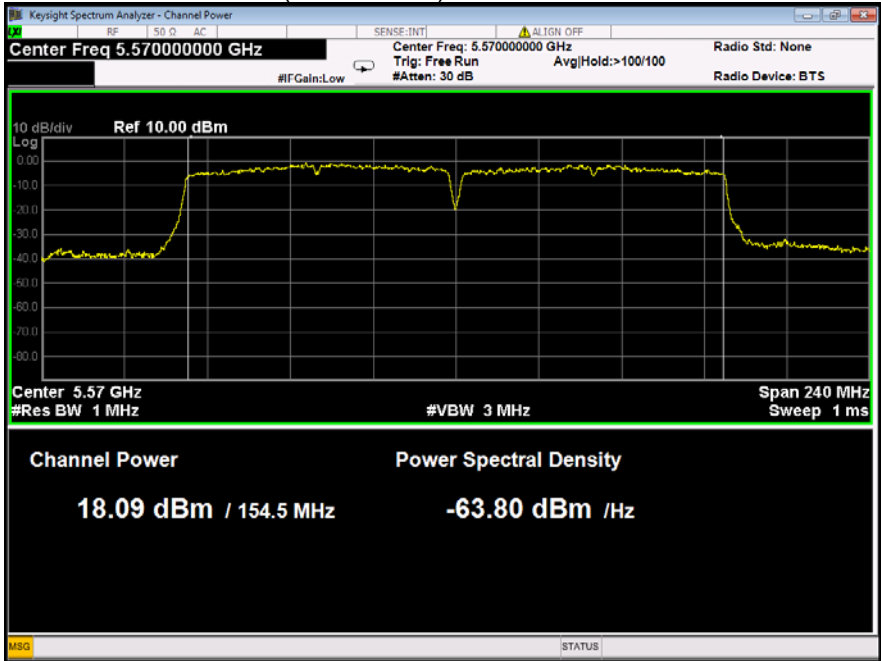
802.11ac(HT80) U-NII-3 Low channel



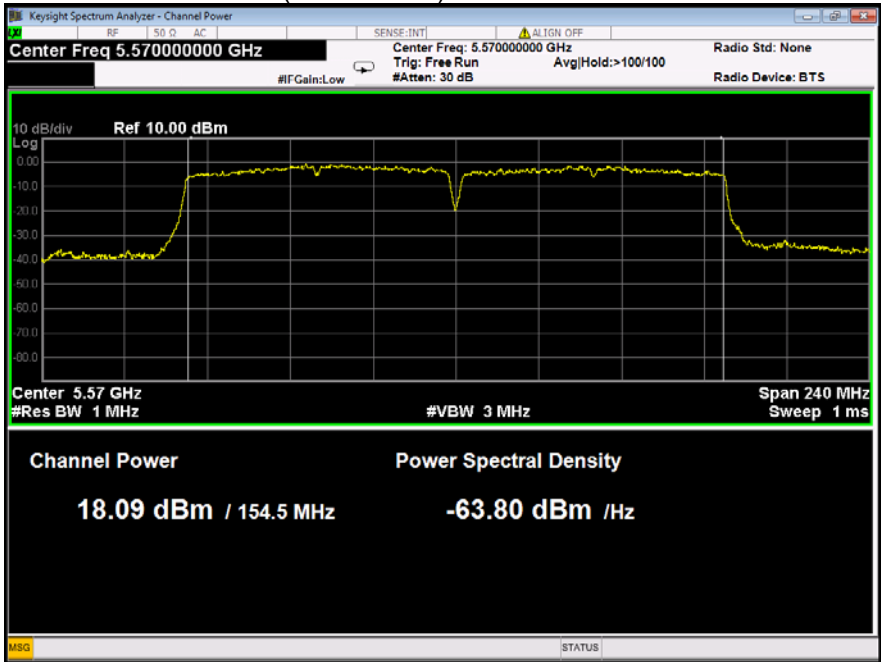
802.11ac(HT80+HT80) U-NII-1 Low channel



802.11ac(HT80+HT80) U-NII-2C Low channel

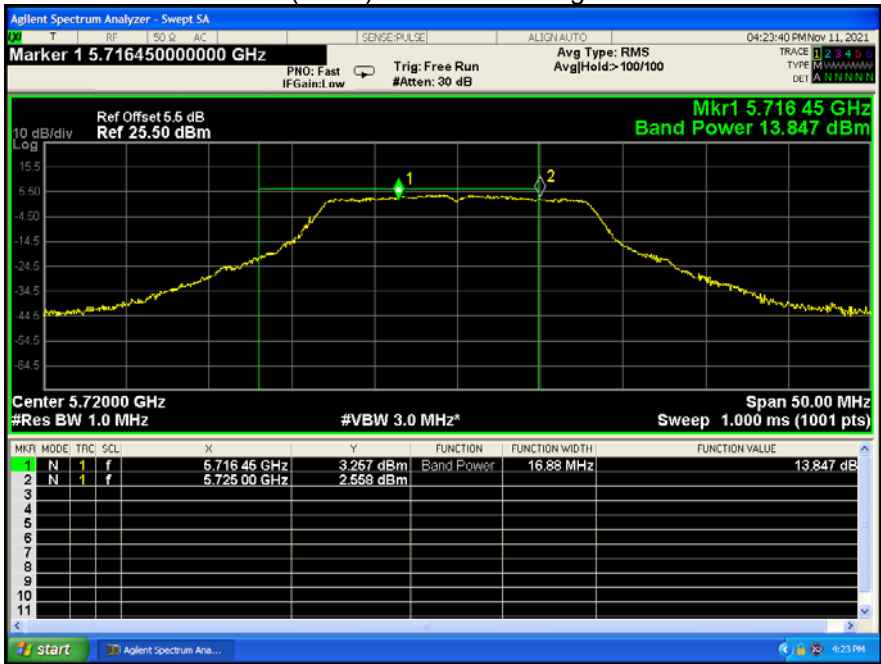


802.11ac(HT80+HT80) U-NII-2C Low channel

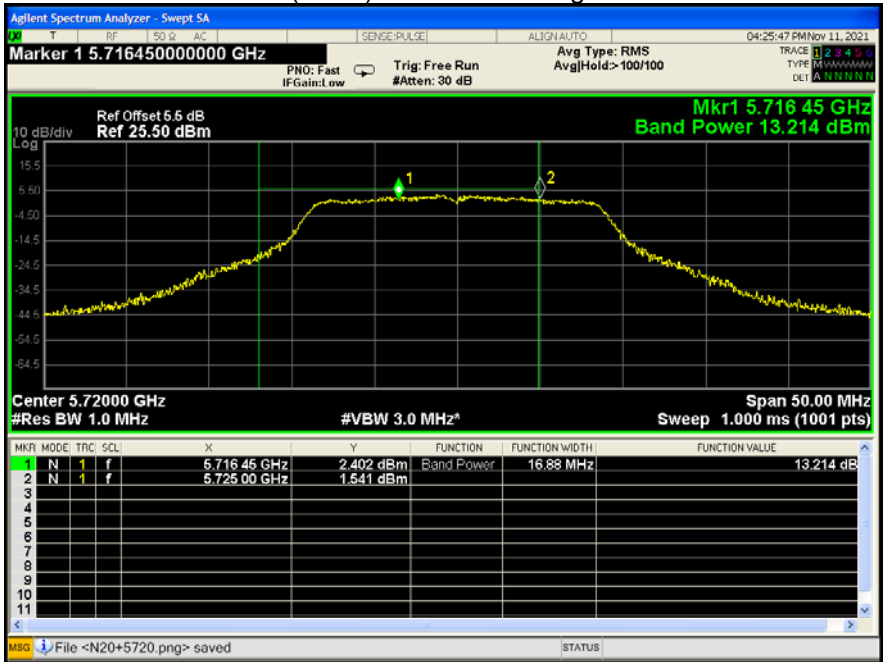


Ant 0

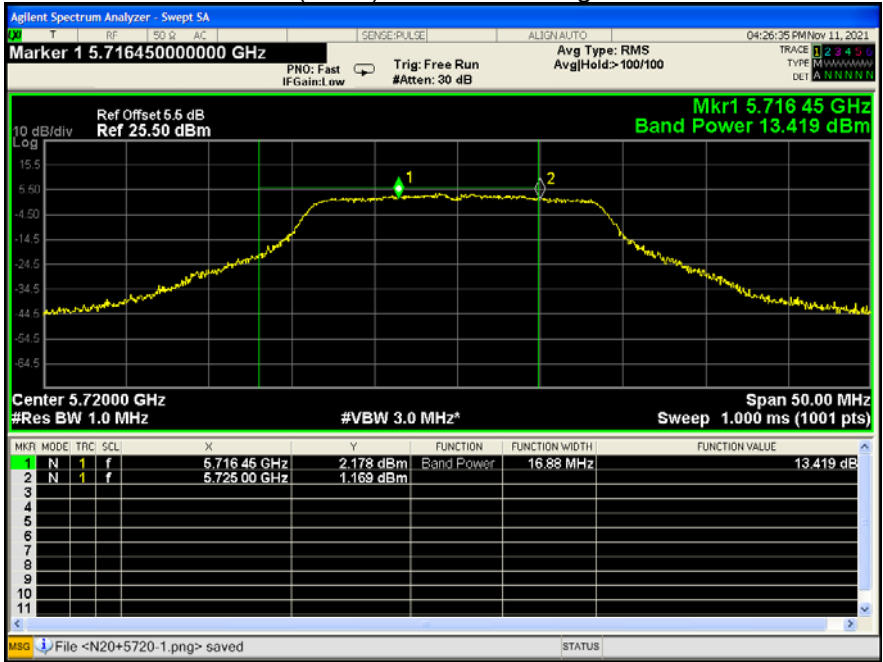
802.11a (HT20) U-NII-2C 144 High channel



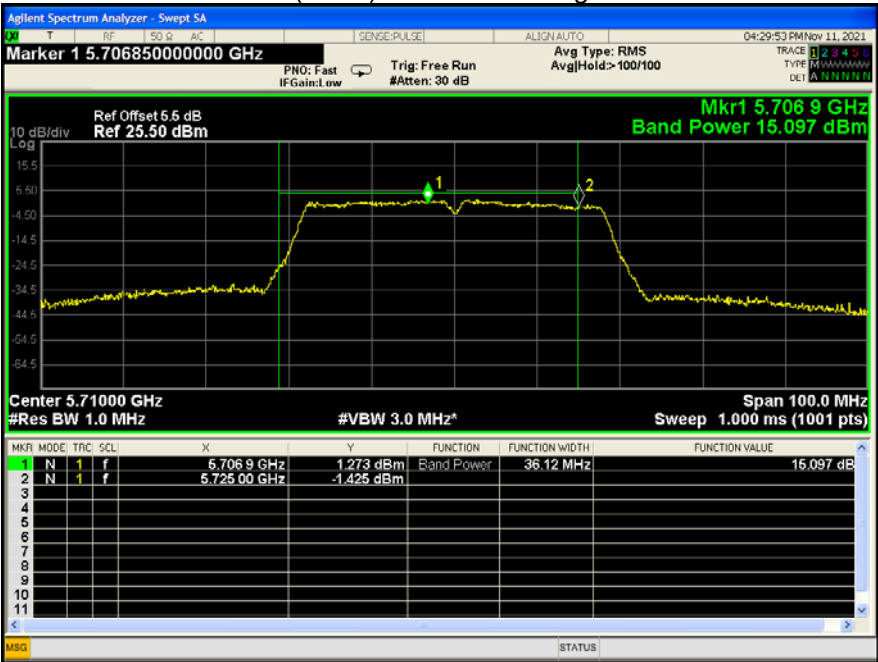
802.11n (HT20) U-NII-2C 144 High channel



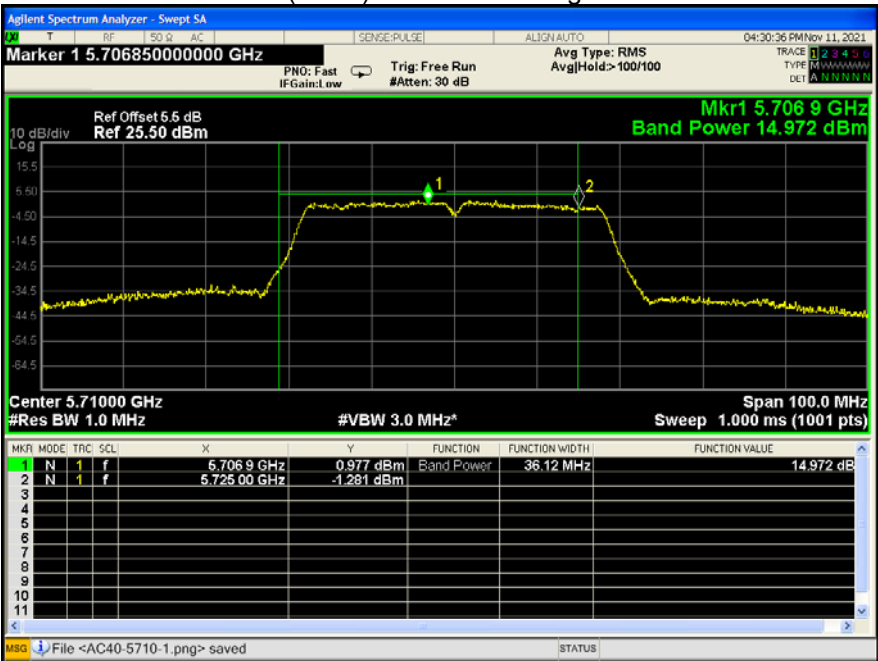
802.11ac (HT20) U-NII-2C 144 High channel



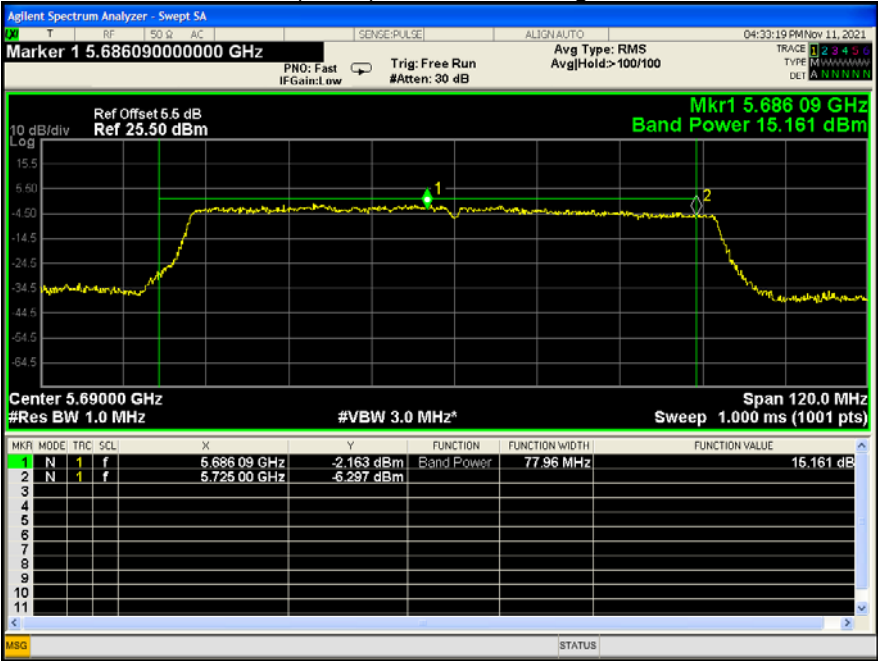
802.11ac (HT40) U-NII-2C 142 High channel



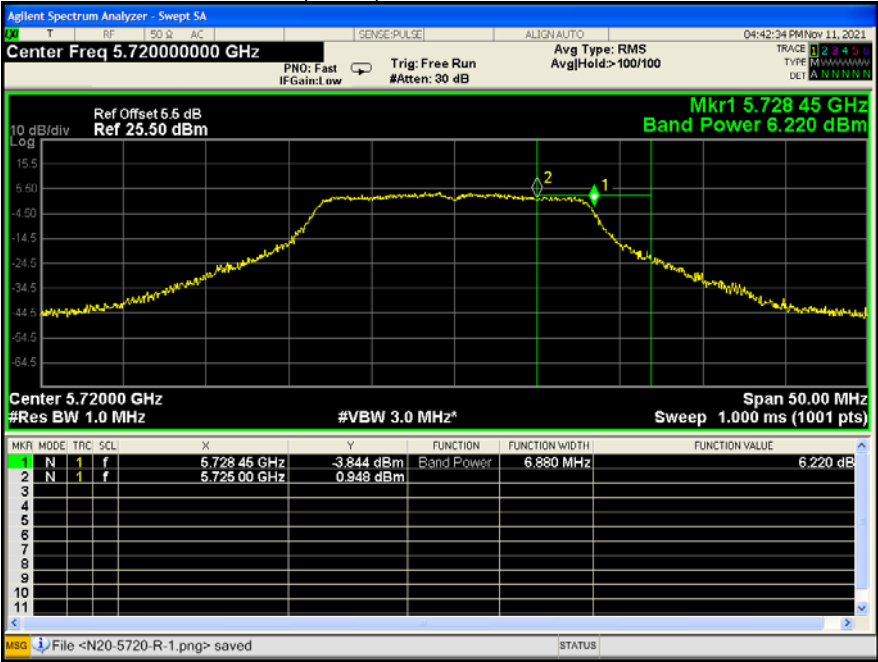
802.11n (HT40) U-NII-2C 142 High channel



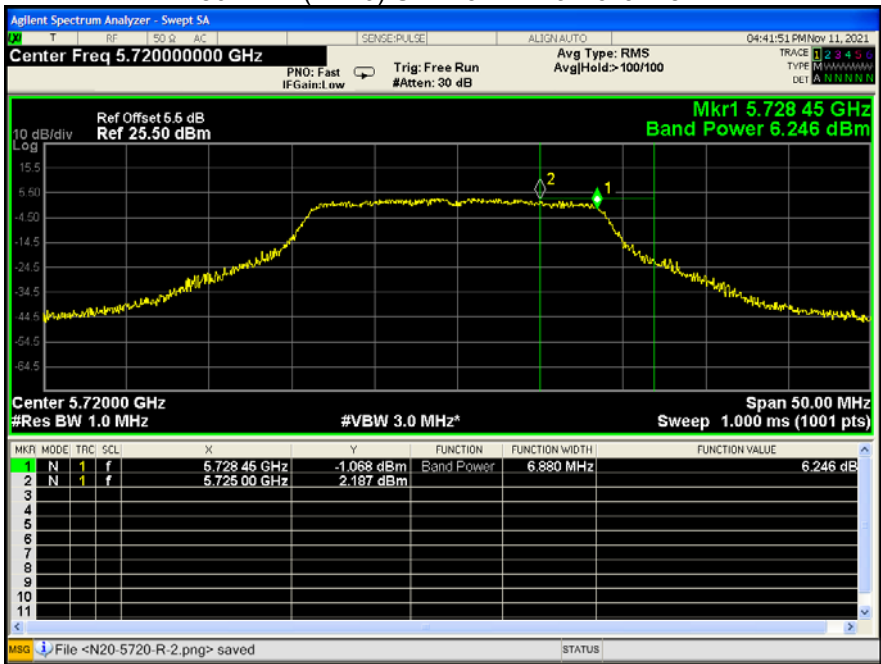
802.11ac (HT80) U-NII-2C 138 High channel



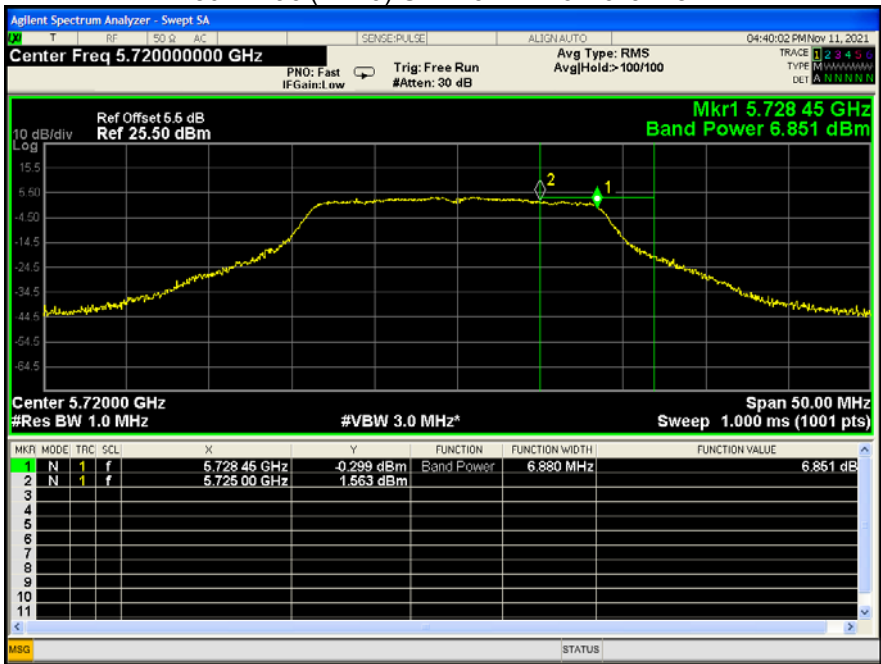
802.11a (HT20) U-NII-3 144 Low channel



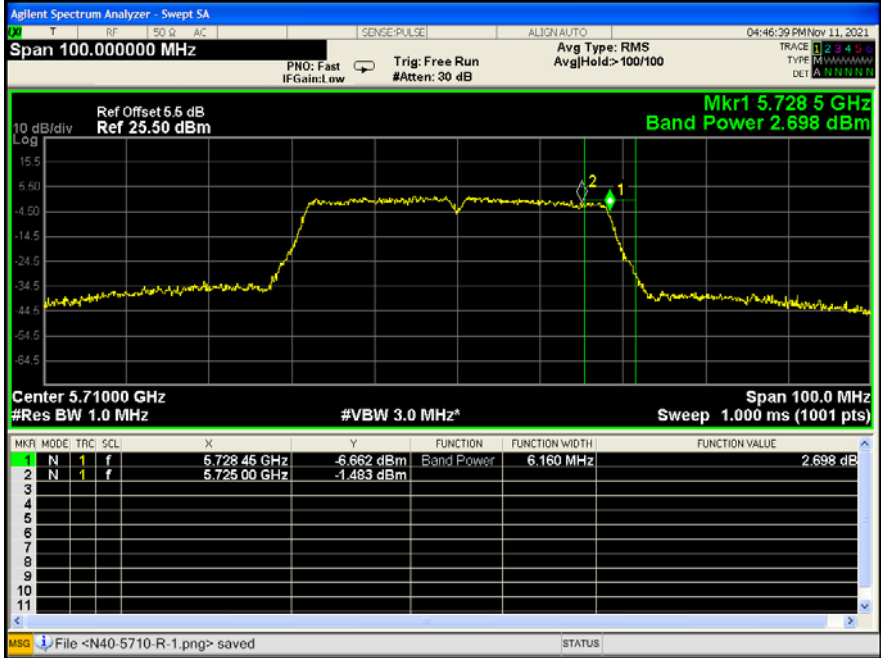
802.11n (HT20) U-NII-3 144 Low channel



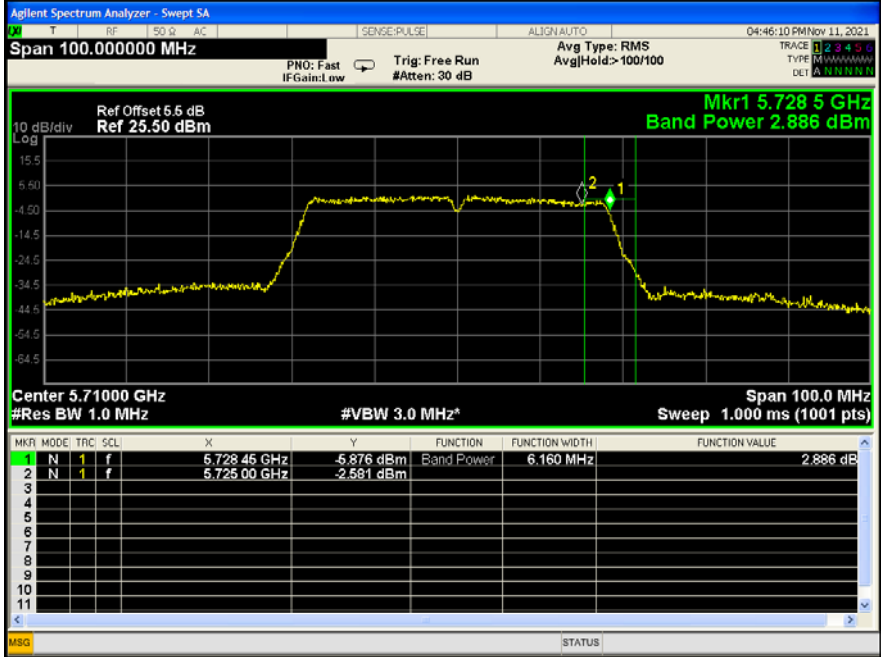
802.11ac (HT20) U-NII-3 144 Low channel



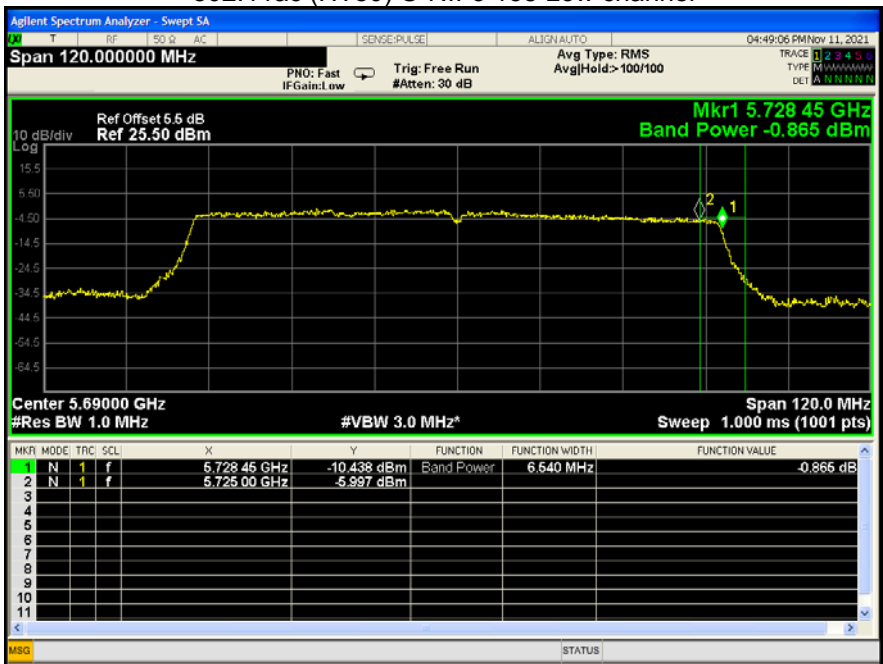
802.11ac (HT40) U-NII-3 142 Low channel



802.11n (HT40) U-NII-3 142 Low channel

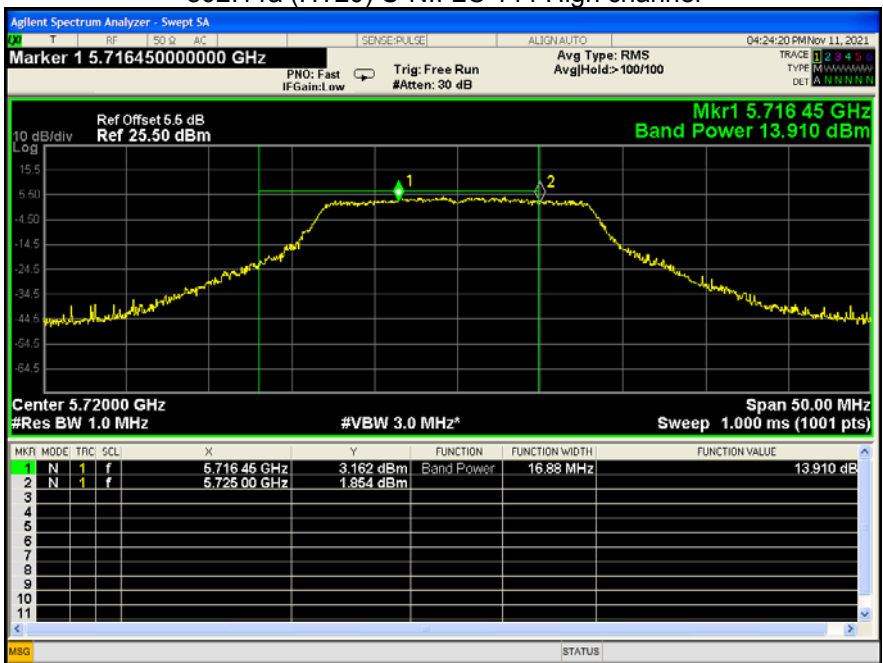


802.11ac (HT80) U-NII-3 138 Low channel

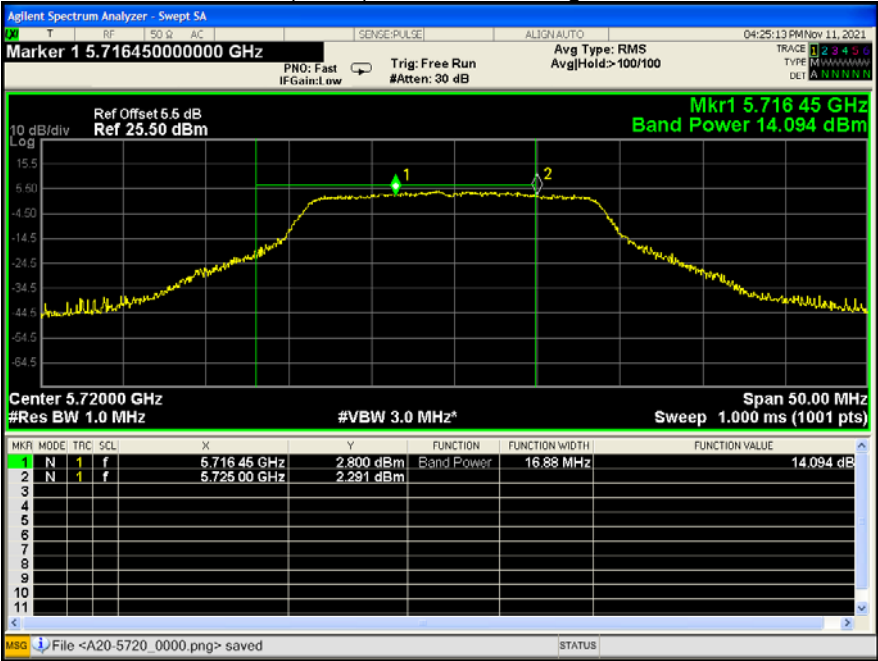


ANT 1

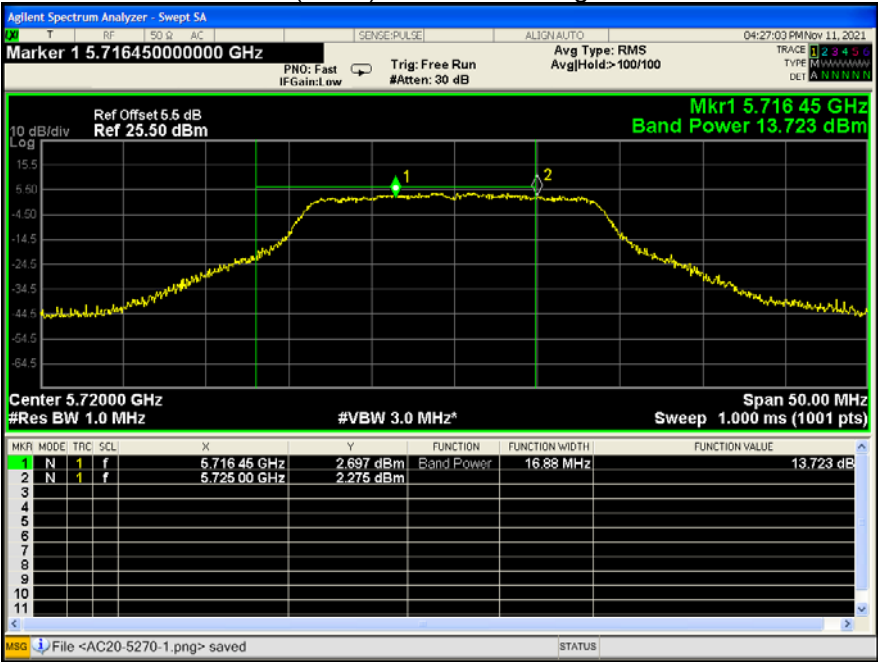
802.11a (HT20) U-NII-2C 144 High channel



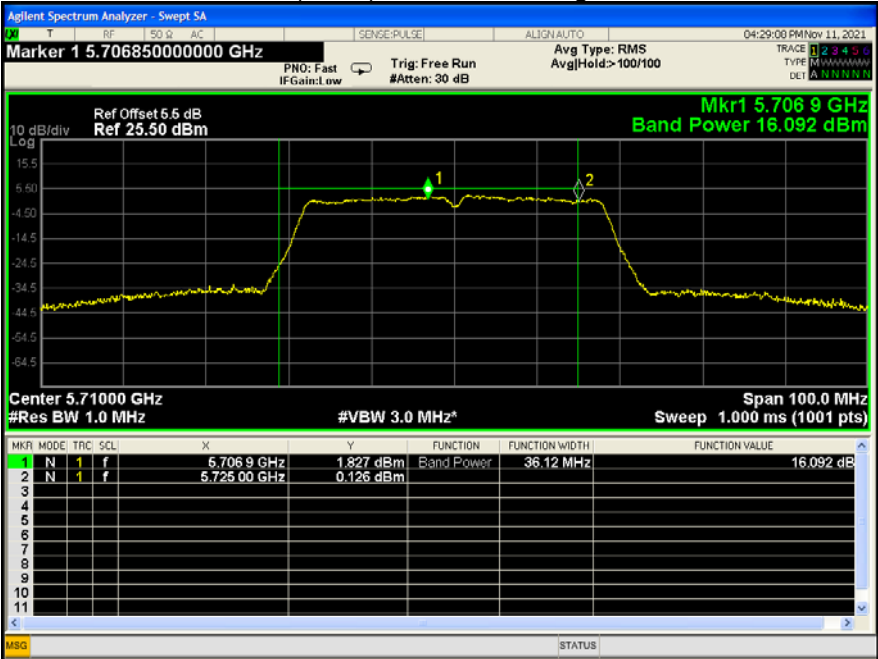
802.11n (HT20) U-NII-2C 144 High channel



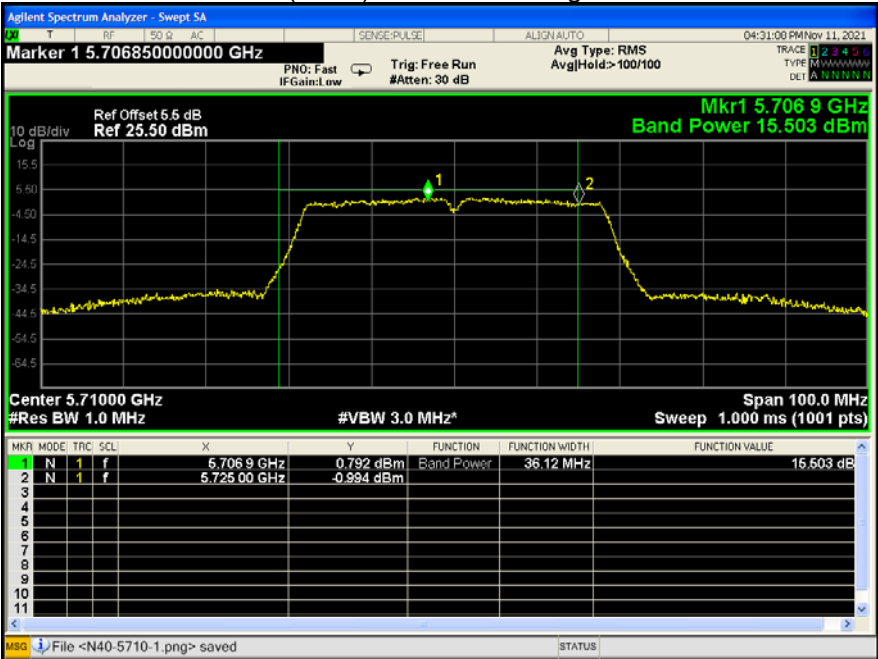
802.11ac (HT20) U-NII-2C 144 High channel



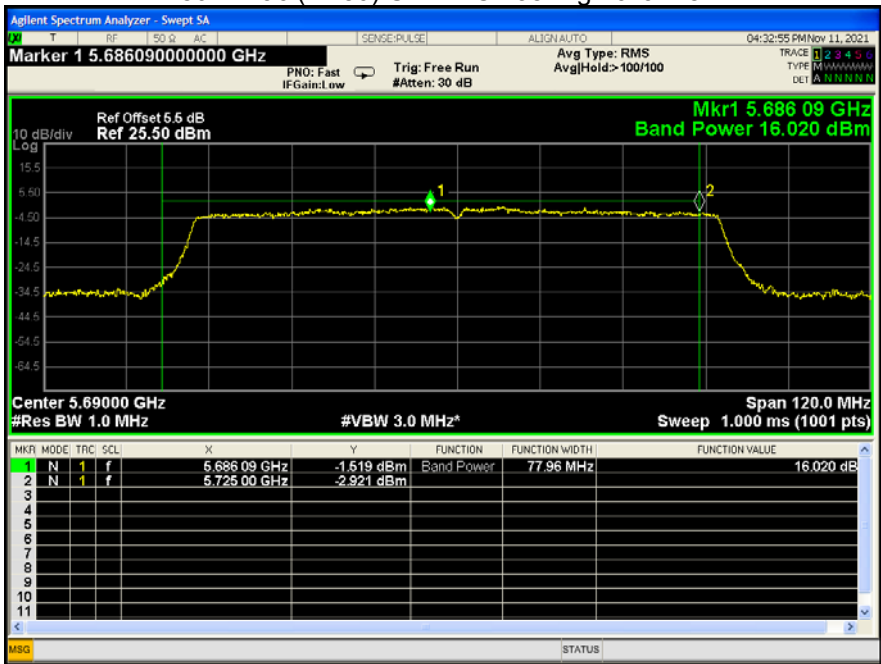
802.11ac (HT40) U-NII-2C 142 High channel



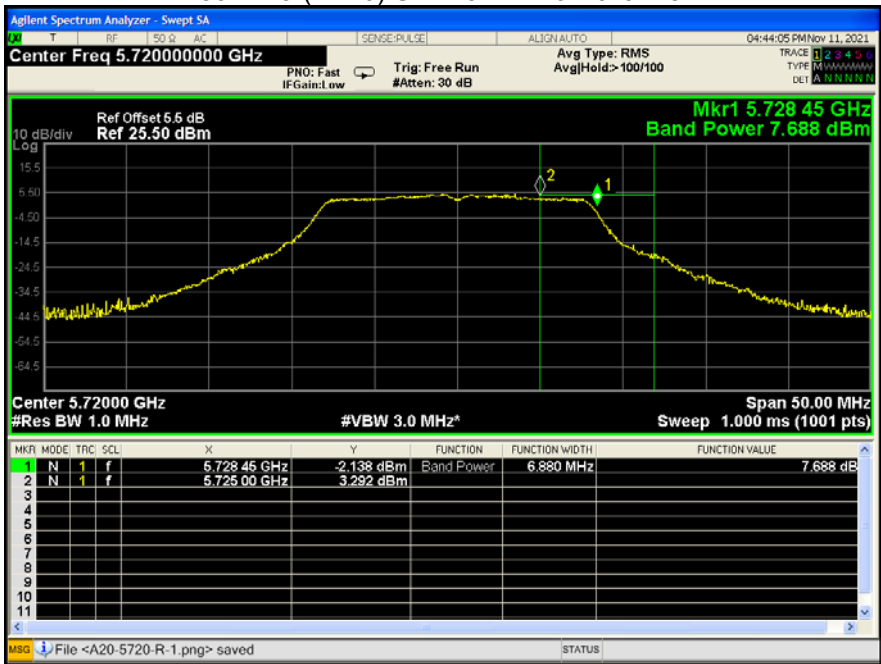
802.11n (HT40) U-NII-2C 142 High channel



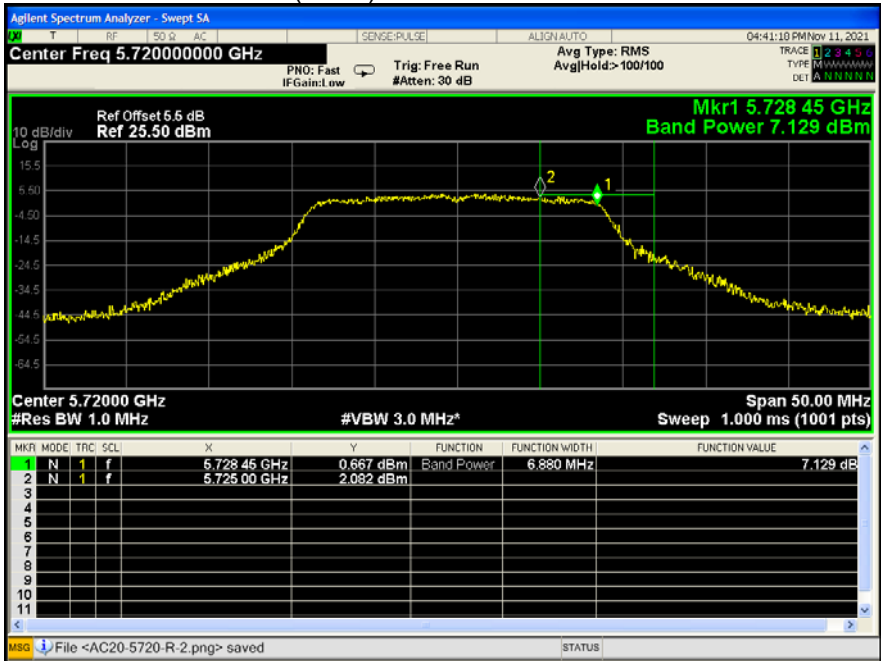
802.11ac (HT80) U-NII-2C 138 High channel



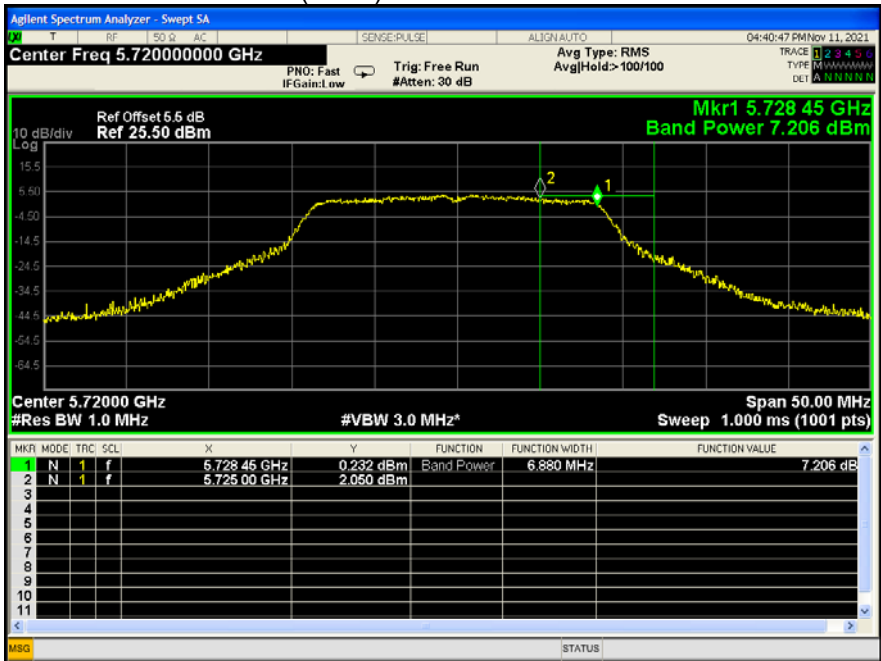
802.11a (HT20) U-NII-3 144 Low channel



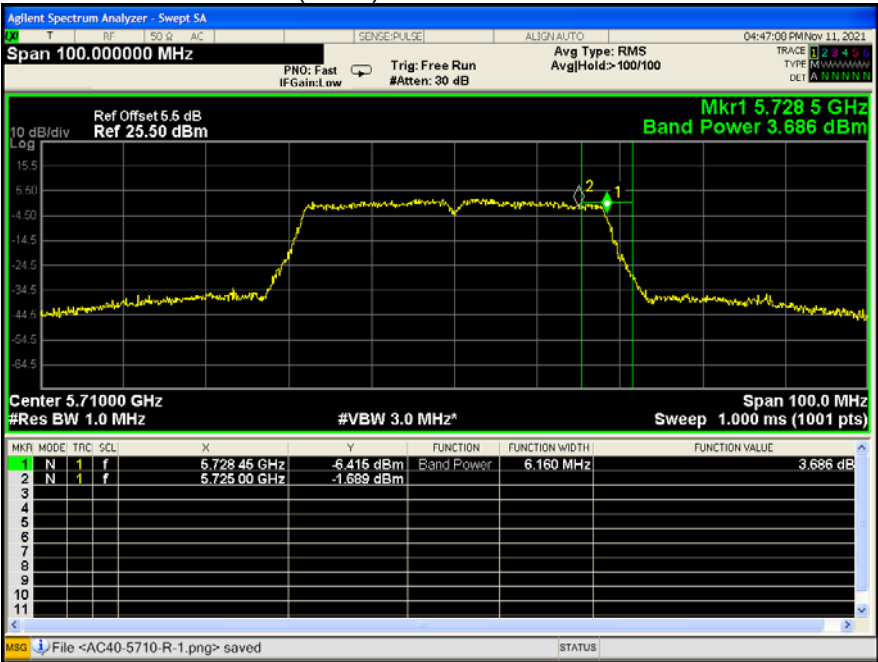
802.11n (HT20) U-NII-2C 144 Low channel



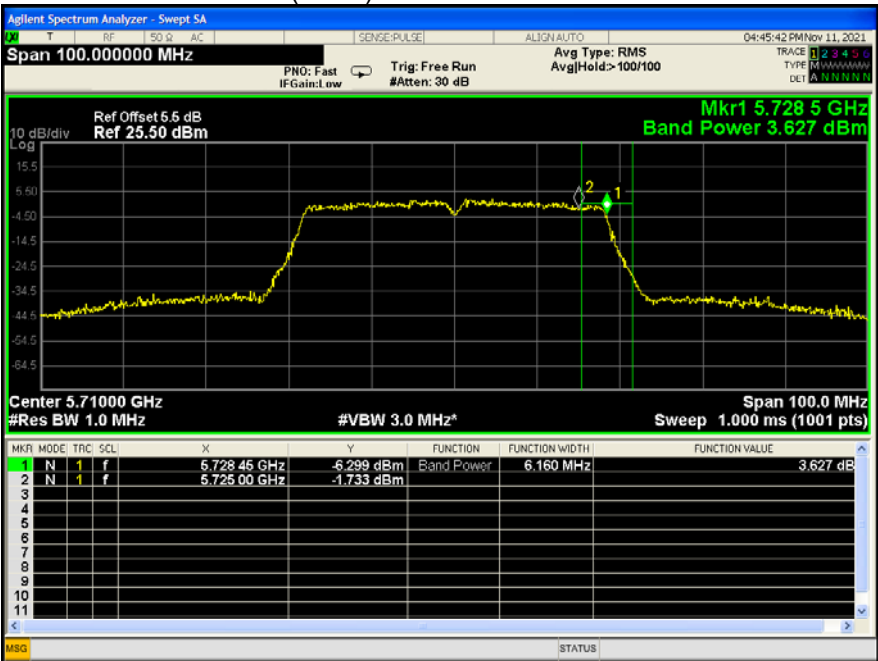
802.11ac (HT20) U-NII-2C 144 Low channel



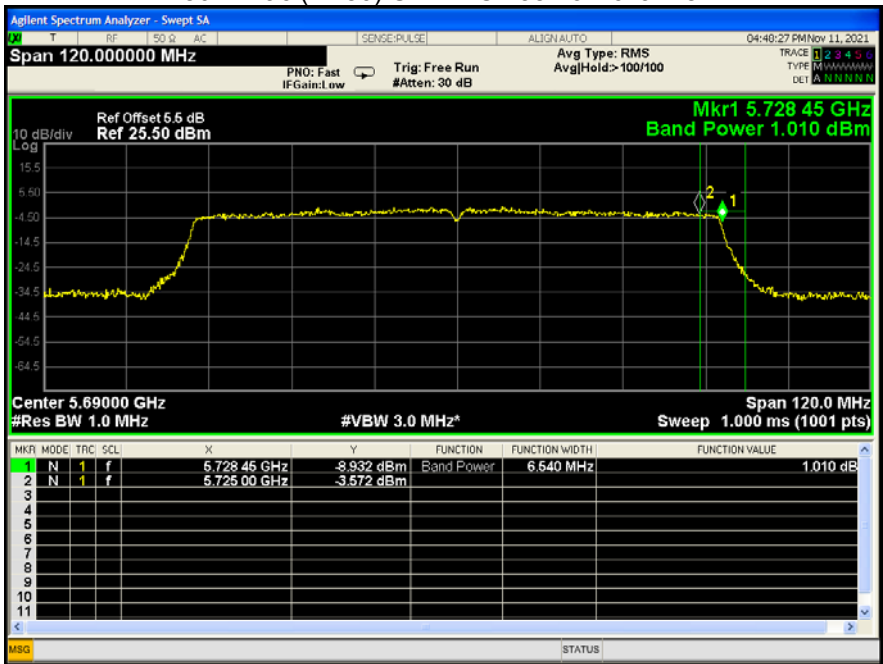
802.11ac (HT40) U-NII-2C 142 Low channel



802.11n (HT40) U-NII-2C 142 Low channel



802.11ac (HT80) U-NII-2C 138 Low channel



14 Power Spectral density

Test Requirement:	FCC CFR47 Part 15 Section 15.407(a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section F
Test Limit:	$\leq 11.00\text{dBm/MHz}$ for Operation in the U-NII-1(5150MHz-5250MHz)of mobile device $\leq 11.00\text{dBm/MHz}$ for Operation in the U-NII-2A(5250MHz-5350MHz)of device $\leq 11.00\text{dBm/MHz}$ for Operation in the U-NII-2A(5470MHz-5725MHz)of device $\leq 30.00\text{dBm/500KHz}$ for Operation in the U-NII-3(5725MHz- 5850MHz)of device
Test Result:	PASS

14.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
U-NII-1
RBW = 1MHz, VBW $\geq 3 \times$ RBW Sweep = auto; Detector Function = Peak. Trace = Max hold.
U-NII-3
RBW = 510KHz, VBW $\geq 3 \times$ RBW Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section
Submit this plot.

14.2 Test Result:

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)		
			ANT0	ANT1	Total
U-NII-1	802.11a	Low	4.376	4.408	/
		Middle	4.282	4.250	/
		High	4.146	4.131	/
	802.11n(HT20)	Low	4.002	3.951	6.99
		Middle	4.049	4.121	7.10
		High	3.785	3.858	6.83
	802.11n(HT40)	Low	1.971	1.999	5.00
		Middle	/	/	/
		High	1.875	1.445	4.68
	802.11ac(HT20)	Low	3.720	4.003	6.87
		Middle	3.960	4.075	7.03
		High	3.721	3.833	6.79
	802.11ac(HT40)	Low	1.638	2.059	4.86
		Middle	/	/	/
		High	1.622	1.704	4.67
	802.11ac(HT80)	Low	/	/	/
		Middle	-1.131	-1.213	1.84
		High	/	/	/
	Limit		≤11.00dBm/MHz		

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)		
			ANT0	ANT1	Total
U-NII-2A	802.11a	Low	5.412	5.302	/
		Middle	5.364	5.304	/
		High	4.975	5.055	/
	802.11n(HT20)	Low	5.281	5.166	8.23
		Middle	4.982	4.899	7.95
		High	4.611	4.682	7.66
	802.11n(HT40)	Low	3.003	3.304	6.17
		Middle	/	/	/
		High	3.114	2.921	6.03
	802.11ac(HT20)	Low	5.061	5.103	8.09
		Middle	5.245	4.952	8.11
		High	4.774	4.812	7.80
	802.11ac(HT40)	Low	3.114	3.004	8.83
		Middle	/	/	/
		High	3.173	3.037	6.12
	802.11ac(HT80)	Low	/	/	/
		Middle	0.215	0.204	3.22
		High	/	/	/
	Limit		$\leq 11.00\text{dBm/MHz}$		

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)		
			ANT0	ANT1	Total
U-NII-2C	802.11a	Low	2.596	2.749	/
		Middle	3.027	2.924	/
		High	3.245	3.210	/
	802.11n(HT20)	Low	2.501	2.454	5.49
		Middle	2.709	2.607	5.67
		High	2.955	2.906	5.94
	802.11n(HT40)	Low	0.239	0.237	3.25
		Middle	0.566	0.409	3.50
		High	0.692	0.546	3.63
	802.11ac(HT20)	Low	2.225	2.425	5.34
		Middle	2.791	2.664	5.74
		High	3.342	2.986	6.18
	802.11ac(HT40)	Low	0.514	0.375	8.83
		Middle	0.804	0.762	3.79
		High	0.628	0.581	3.61
	802.11ac(HT80)	Low	-1.959	-2.629	0.73
		Middle	-2.441	-2.036	0.78
		High	/	/	/
	Limit		$\leq 11.00\text{dBm/MHz}$		

Band	Operation mode	CH	Power Spectral Density (dBm/0.5Mhz)		
			ANT0	ANT1	Total
U-NII-3	802.11a	Low	1.904	2.008	/
		Middle	1.538	1.715	/
		High	1.351	1.117	/
	802.11n(HT20)	Low	1.415	1.491	4.46
		Middle	1.549	1.193	4.38
		High	0.739	1.173	3.97
	802.11n(HT40)	Low	-1.678	-1.297	1.53
		Middle	/	/	/
		High	-1.802	-1.807	1.21
	802.11ac(HT20)	Low	1.644	1.624	4.64
		Middle	1.236	1.436	4.35
		High	0.925	0.813	3.88
	802.11ac(HT40)	Low	-1.187	-1.310	8.83
		Middle	/	/	/
		High	-1.581	-1.613	1.41
	802.11ac(HT80)	Low	/	/	/
		Middle	-3.851	-3.985	-0.91
		High	/	/	/
	Limit		≤30.00dBm/0.5Mhz		

Band	Operation mode	CH	Power Spectral Density (dBm/Mhz)		
			ANT0	ANT1	Total
U-NII-2C	802.11a	144	3.888	4.785	/
	802.11n(HT20)	144	3.664	4.339	7.02
	802.11n(HT40)	142	1.710	2.484	5.12
	802.11ac(HT20)	144	3.657	4.058	6.87
	802.11ac(HT40)	142	1.681	2.405	5.07
	802.11ac(HT80)	138	-0.908	-0.397	2.37
	Limit		≤11dBm/Mhz		

Band	Operation mode	CH	Power Spectral Density (dBm/0.5Mhz)		
			ANT0	ANT1	Total
U-NII-3	802.11a	144	0.434	1.253	/
	802.11n(HT20)	144	0.174	0.975	3.60
	802.11n(HT40)	142	-3.037	-1.297	0.93

	802.11ac(HT20)	144	-0.277	0.215	2.99
	802.11ac(HT40)	142	-2.909	-1.414	0.91
	802.11ac(HT80)	138	-6.661	-4.706	-2.56
	Limit		$\leq 30\text{dBm}/0.5\text{MHz}$		

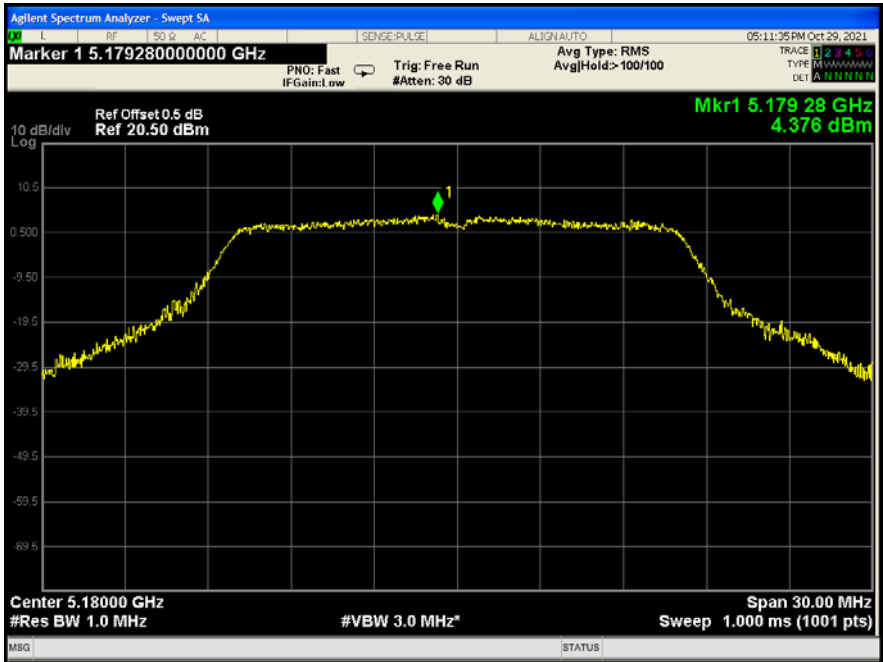
Band	Operation mode	CH	Power Spectral Density (dBm/Mhz)
			Total
U-NII-1/2A	802.11ac(HT80+HT80)	50	-0.232
U-NII-2C	802.11ac(HT80+HT80)	114	-1.246

* All transmit signals are completely uncorrelated with each other, Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

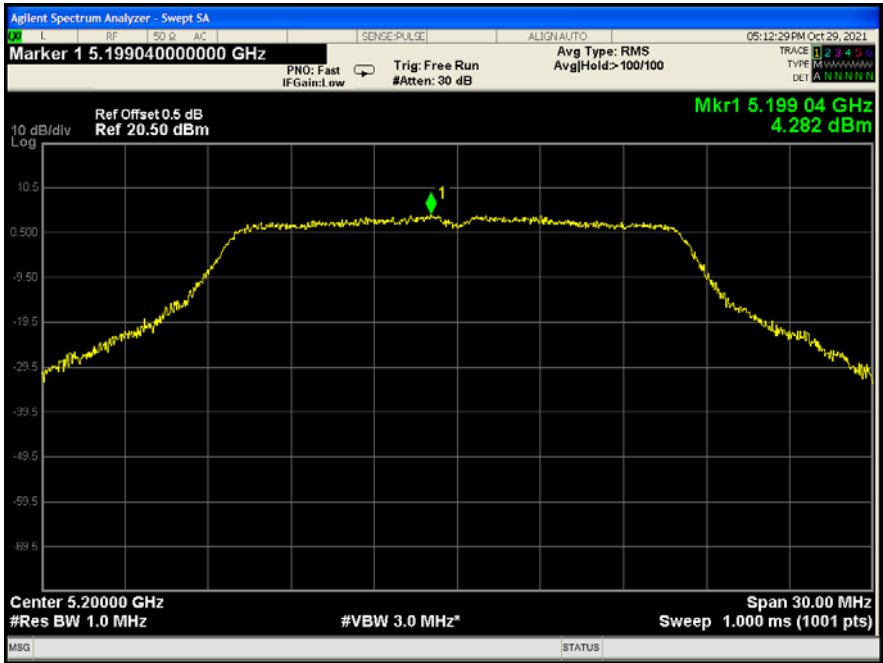
Test result plots shown as follows:

ANT 0

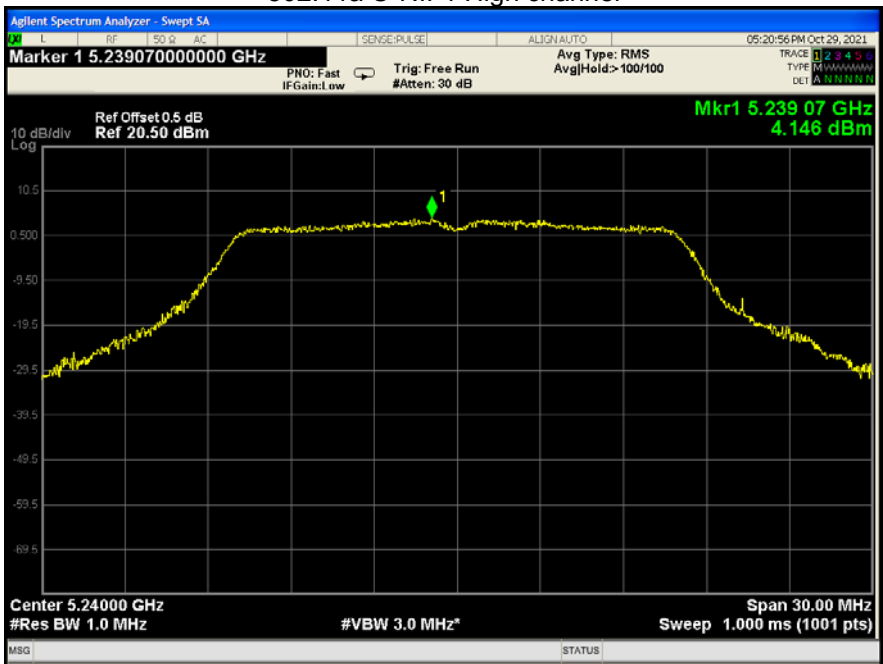
802.11a U-NII-1 Low channel



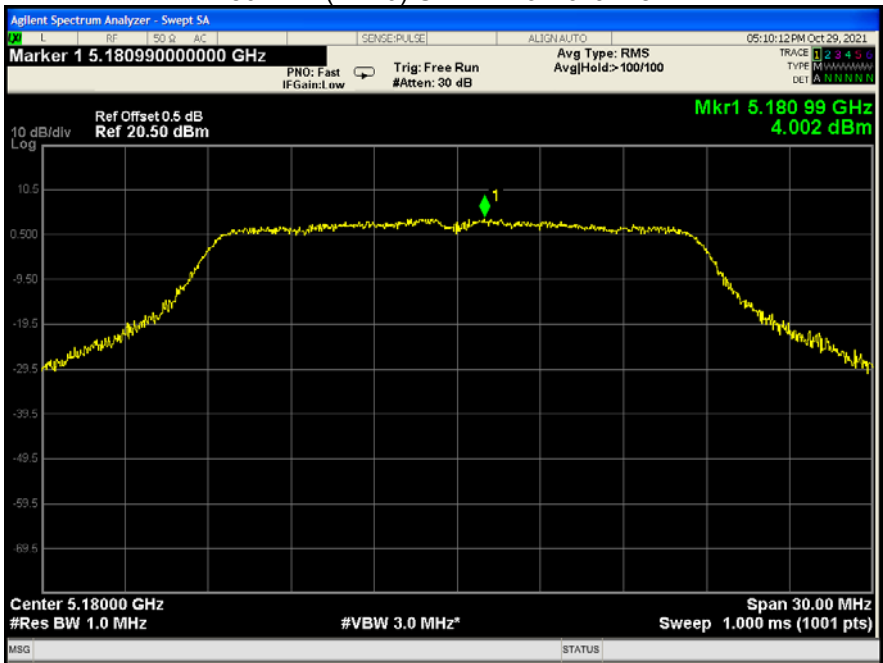
802.11a U-NII-1 Middle channel



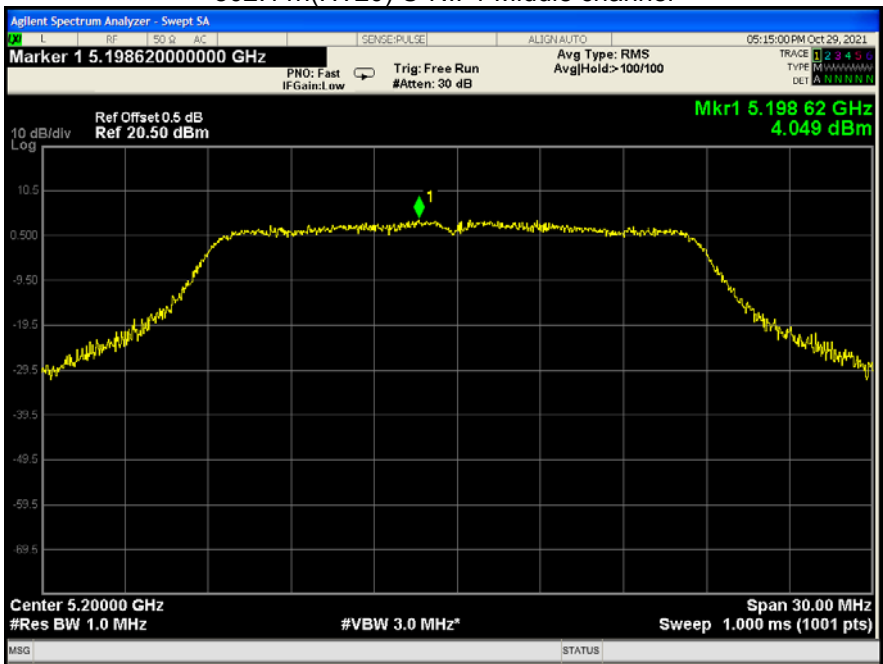
802.11a U-NII-1 High channel



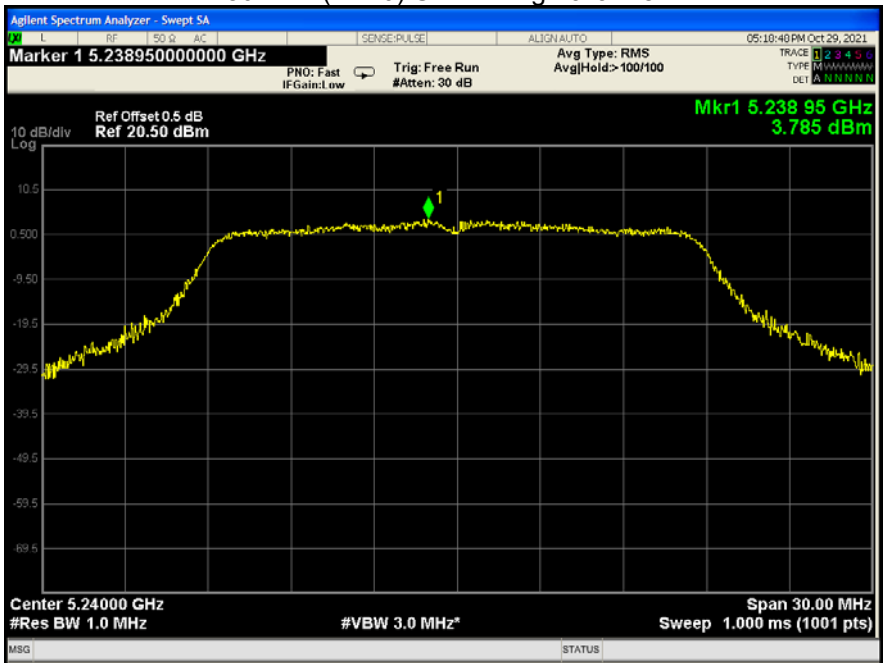
802.11n(HT20) U-NII-1 Low channel



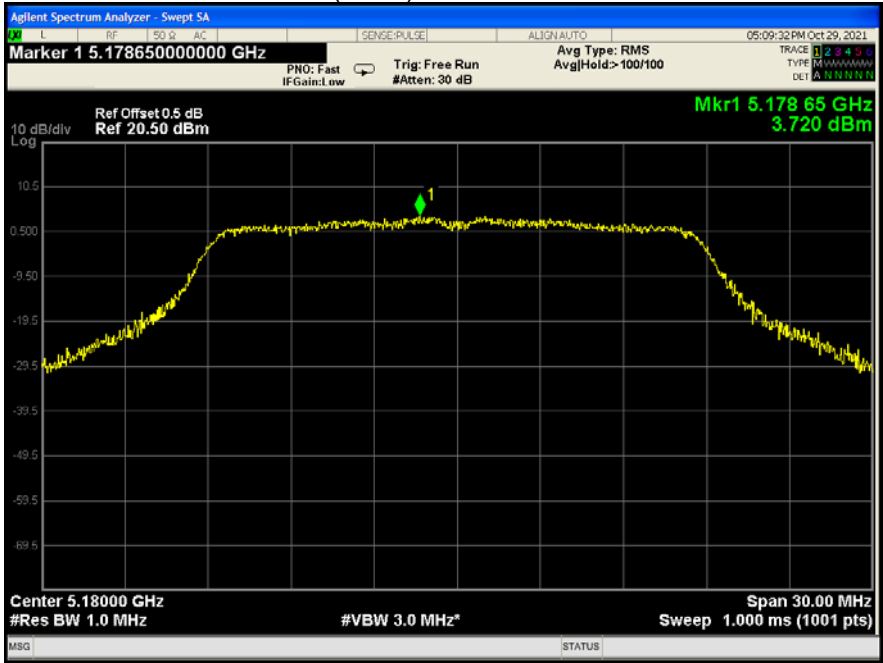
802.11n(HT20) U-NII-1 Middle channel



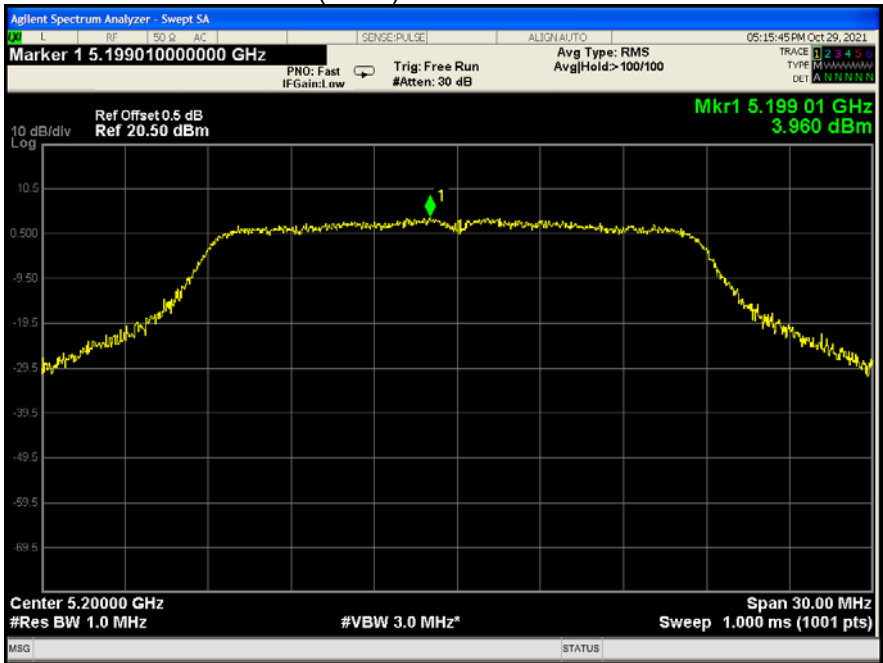
802.11n(HT20) U-NII-1 High channel



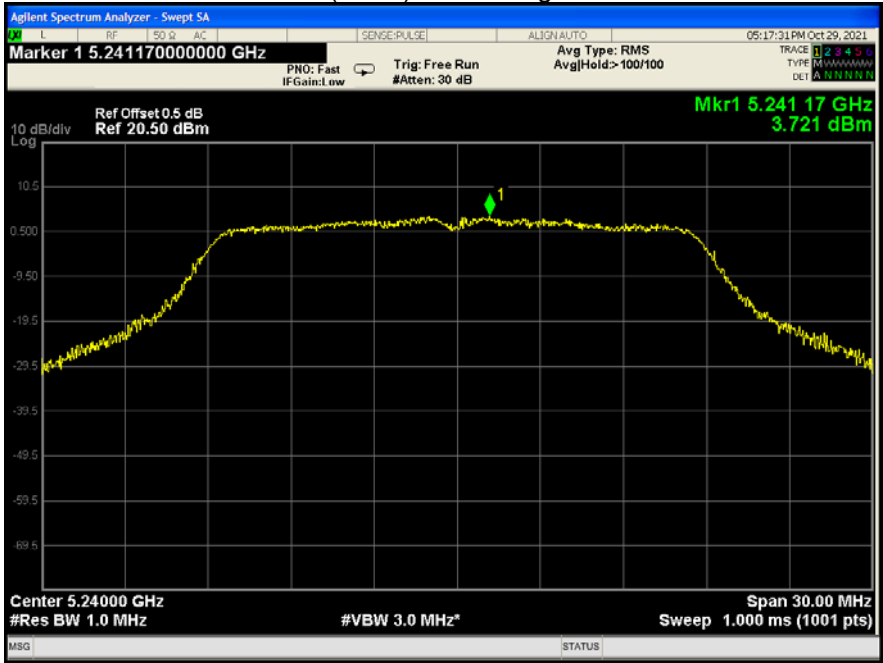
802.11ac(HT20) U-NII-1 Low channel



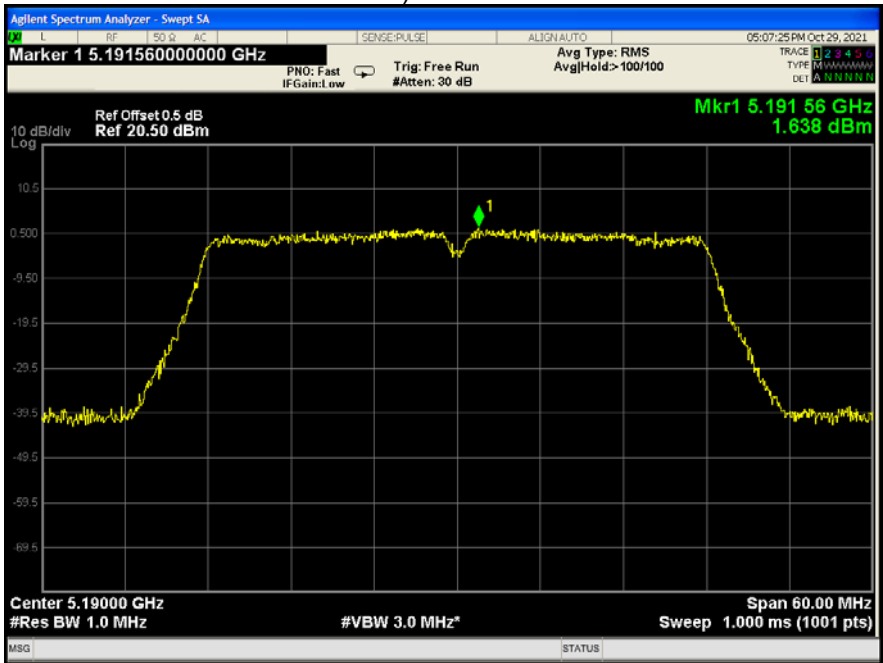
802.11ac(HT20) U-NII-1 Middle channel



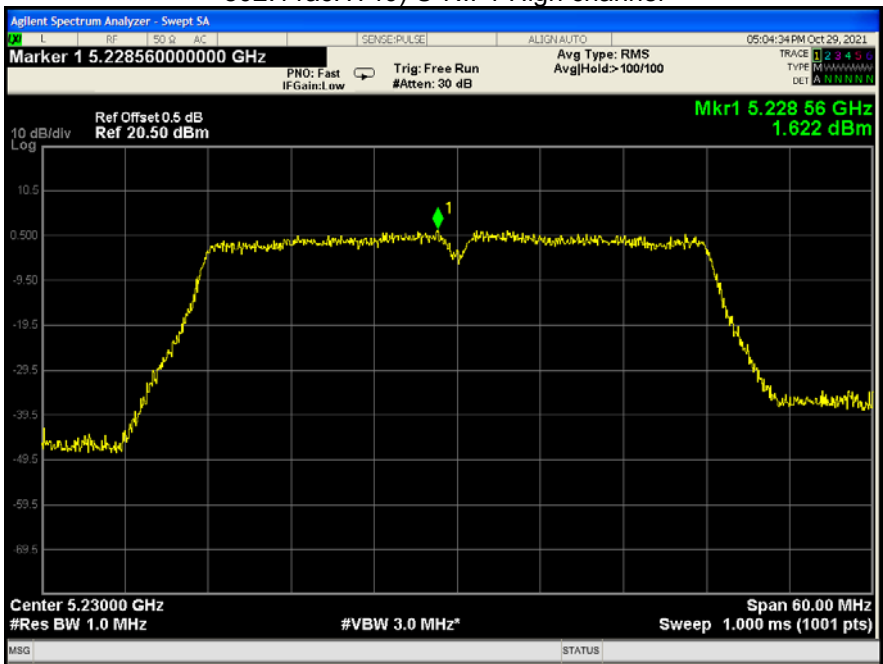
802.11ac(HT20) U-NII-1 High channel



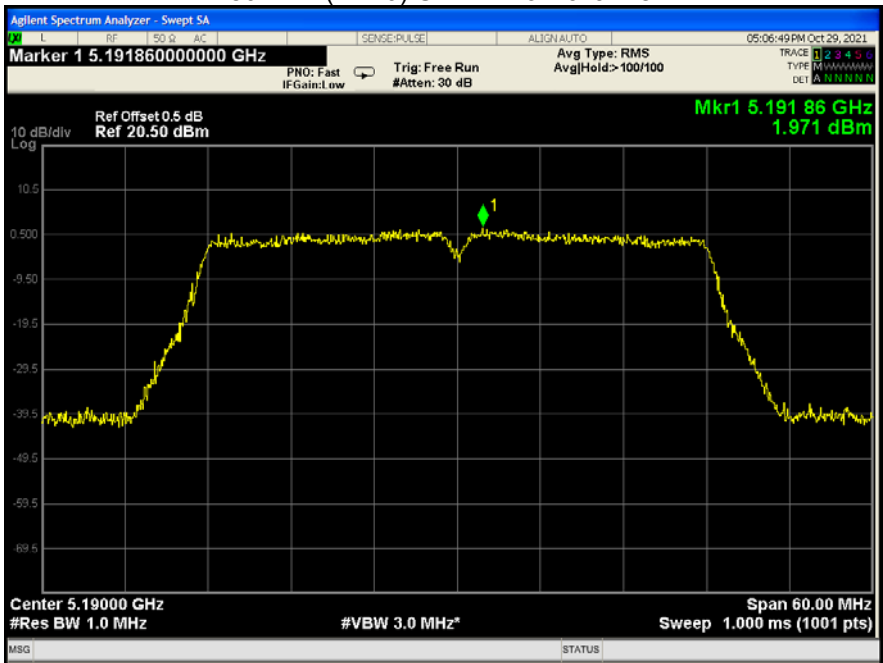
802.11acHT40) U-NII-1 Low channel



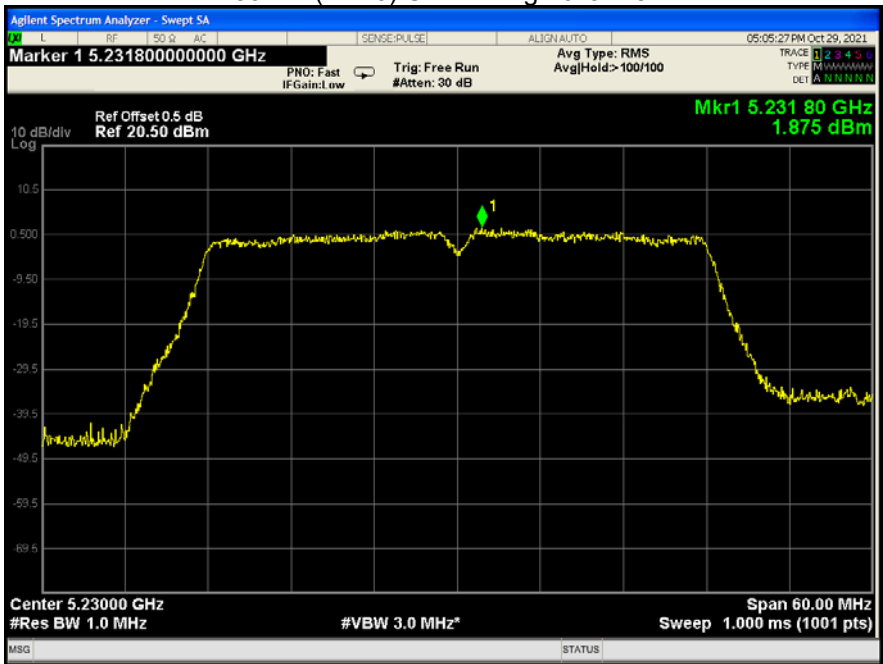
802.11ac(HT40) U-NII-1 High channel



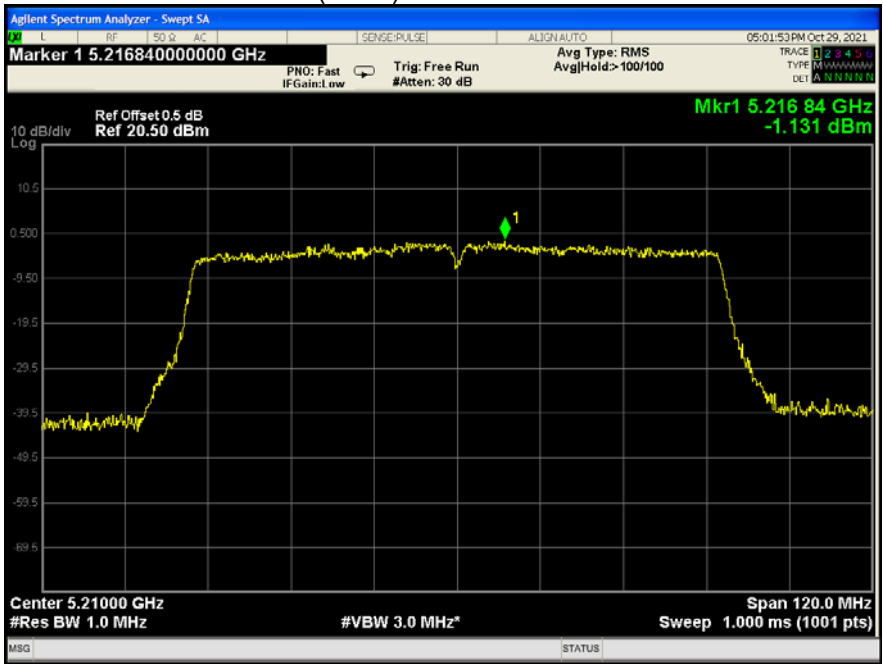
802.11n(HT40) U-NII-1 Low channel



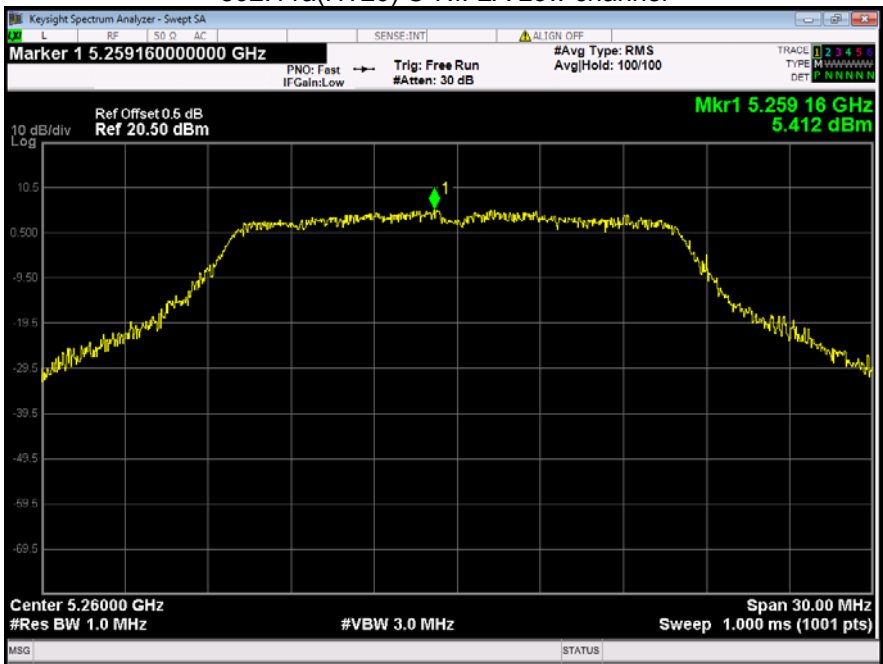
802.11(HT40) U-NII-1 High channel



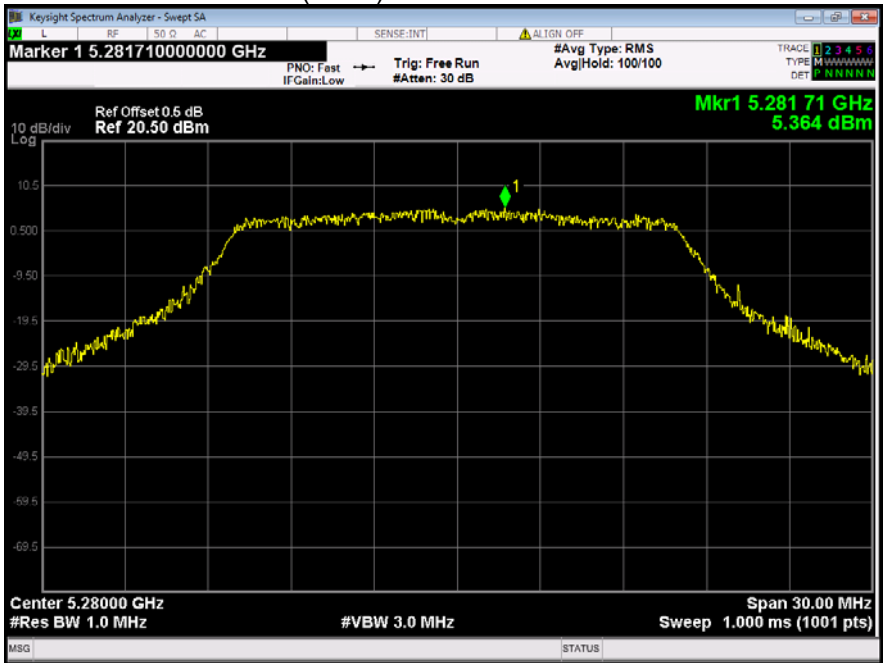
802.11ac(HT80) U-NII-1 Middle channel



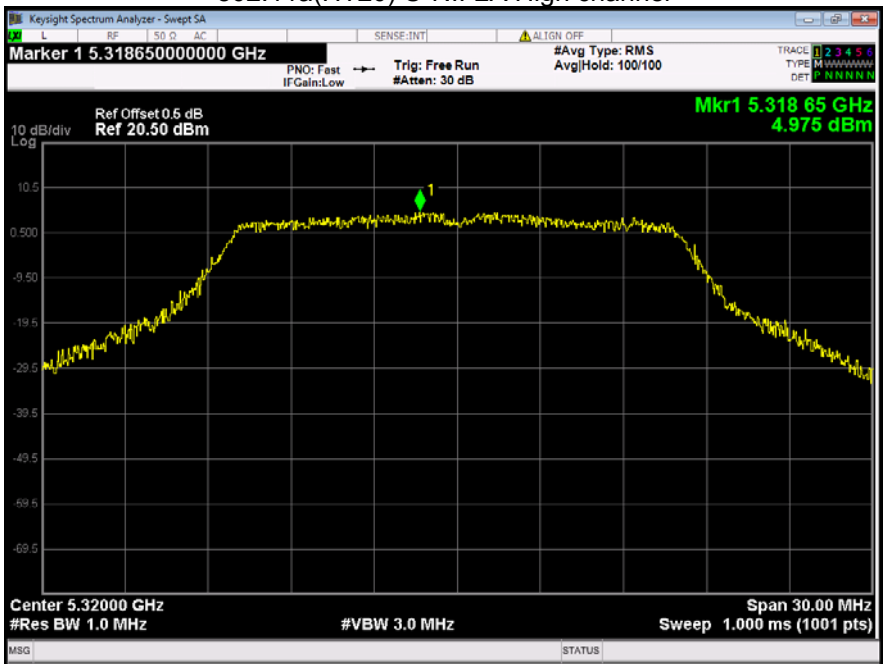
802.11a(HT20) U-NII-2A Low channel



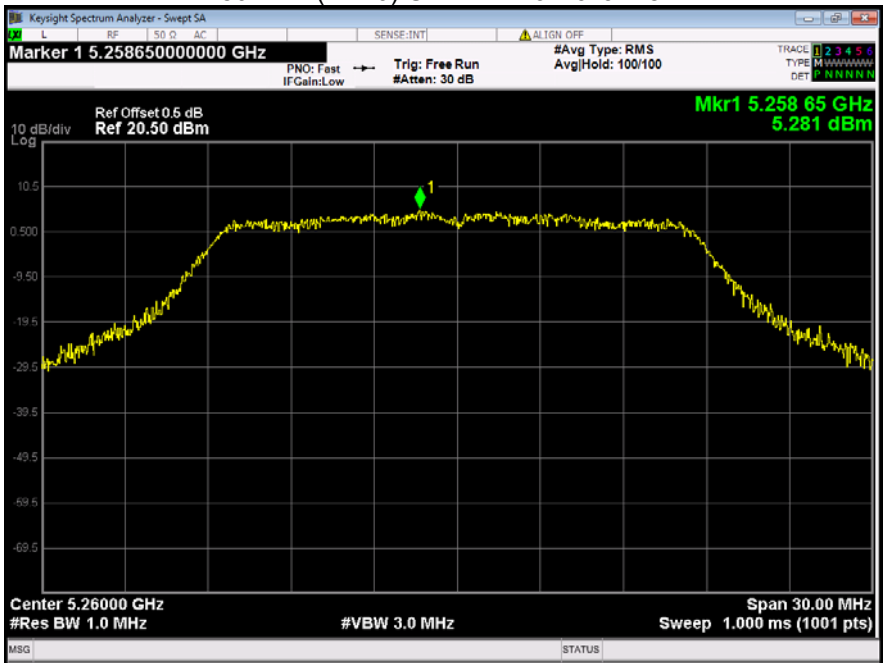
802.11a(HT20) U-NII-2A Middle channel



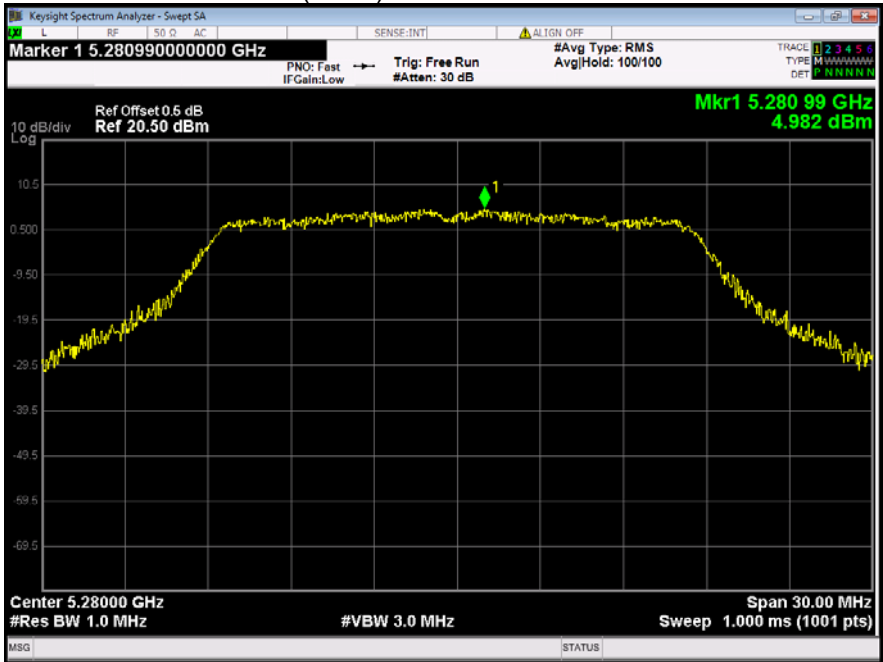
802.11a(HT20) U-NII-2A High channel



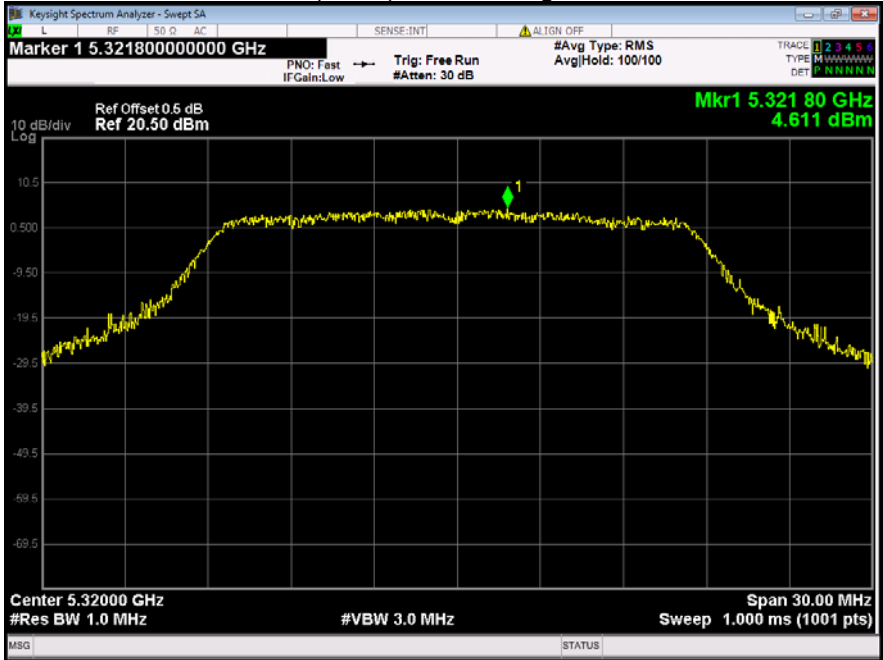
802.11n(HT20) U-NII-2A Low channel



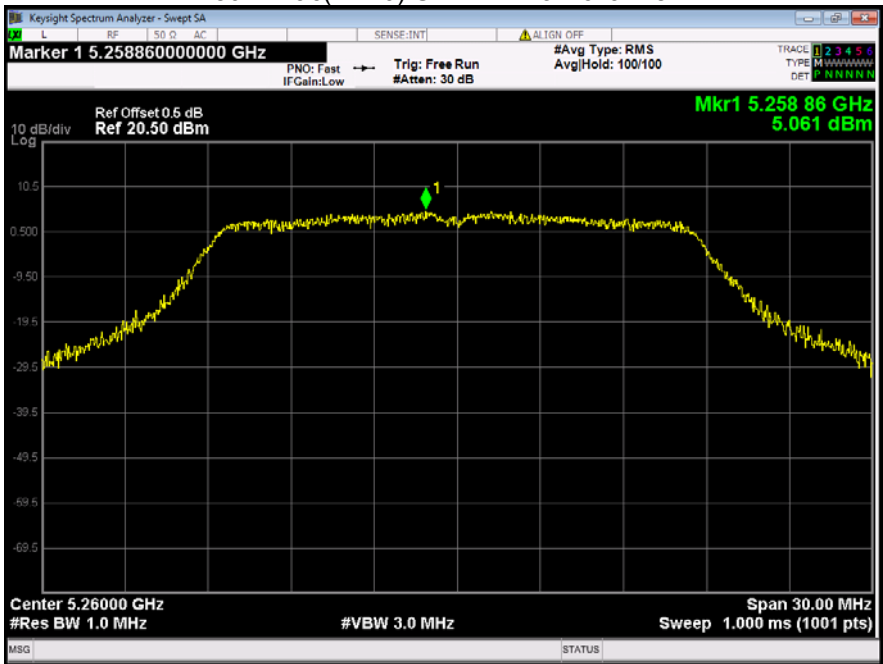
802.11n(HT20) U-NII-2A Middle channel



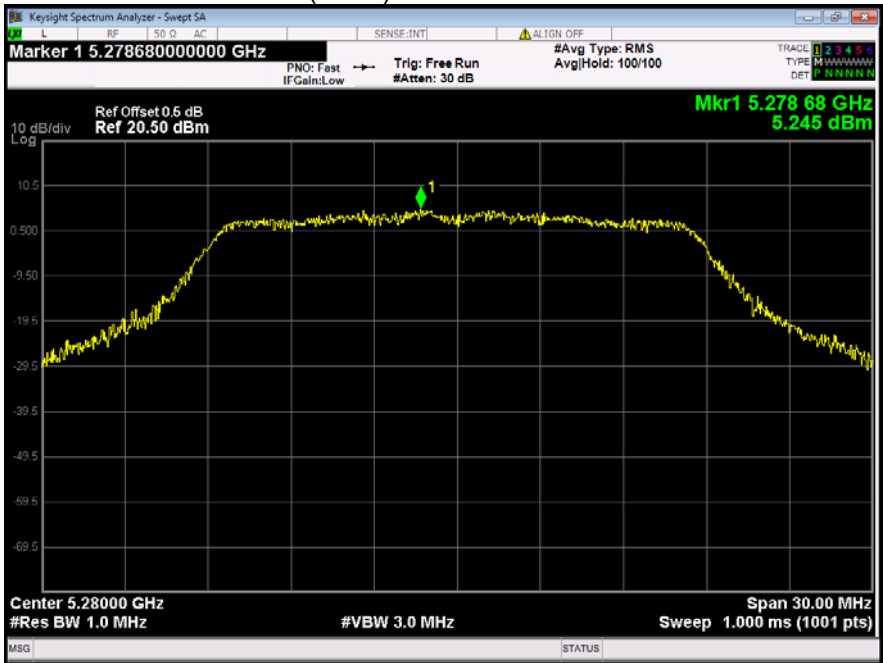
802.11n(HT20) U-NII-2A High channel



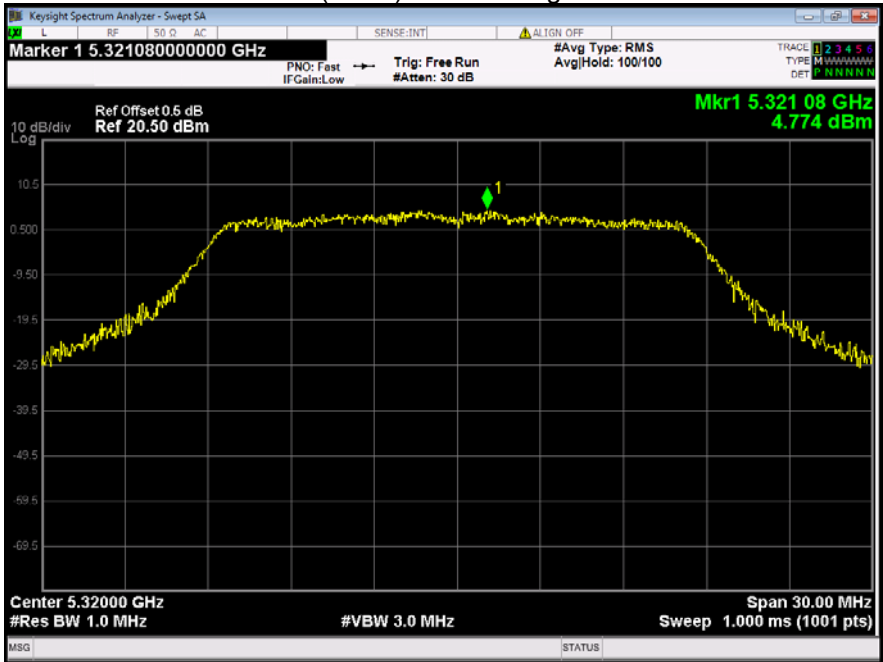
802.11ac(HT20) U-NII-2A Low channel



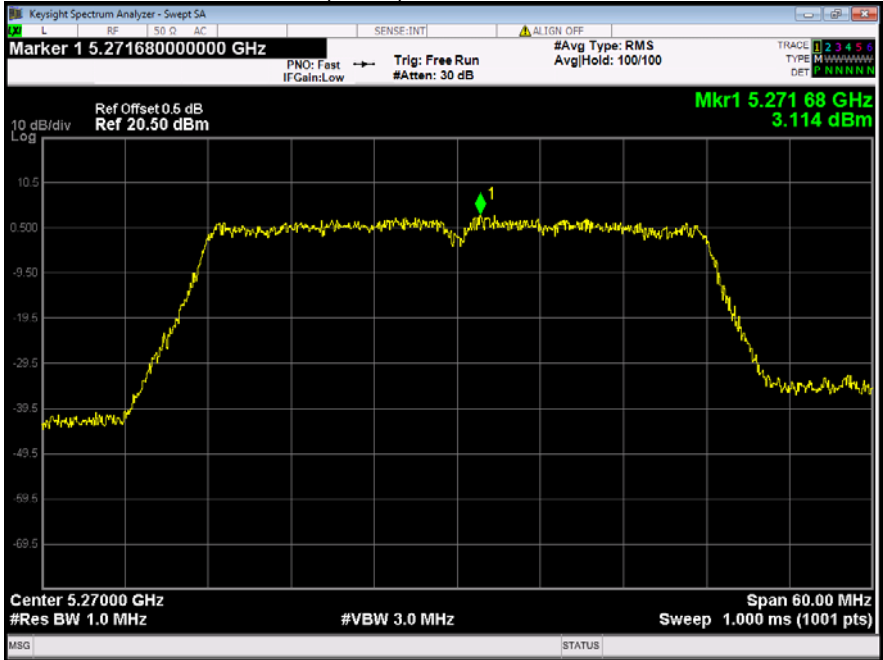
802.11ac(HT20) U-NII-2A Middle channel



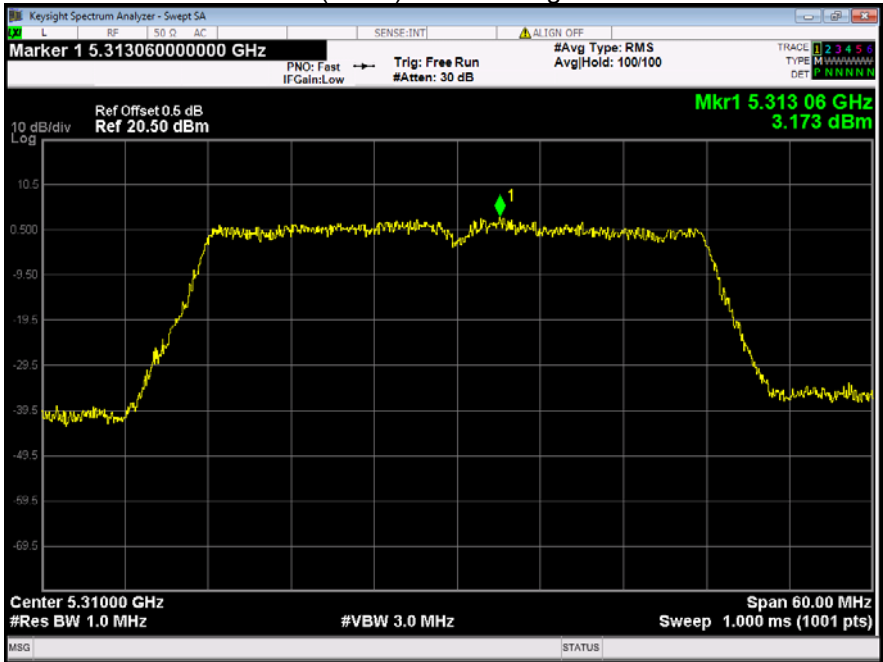
802.11ac(HT20) U-NII-2A High channel



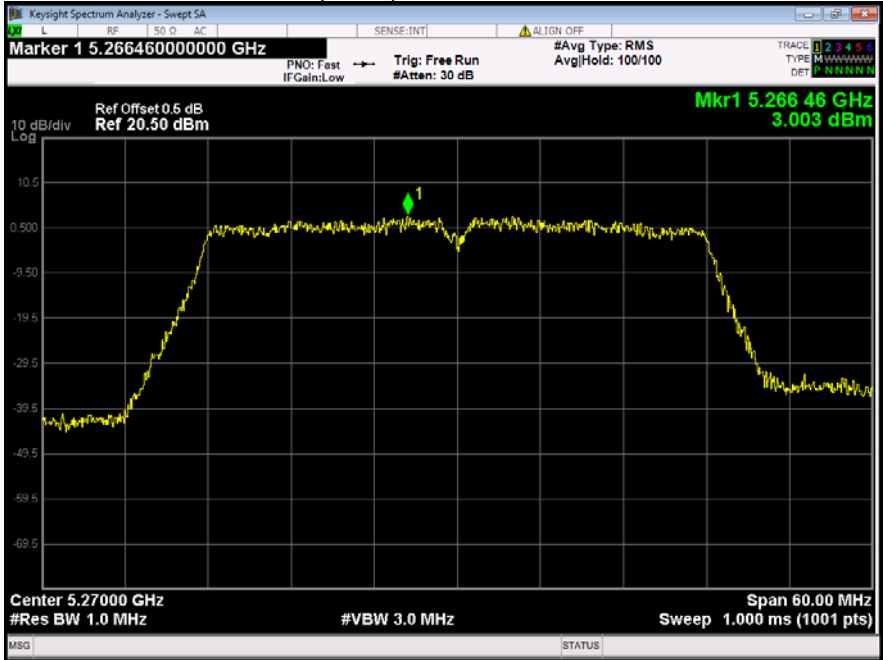
802.11ac(HT40) U-NII-2A Low channel



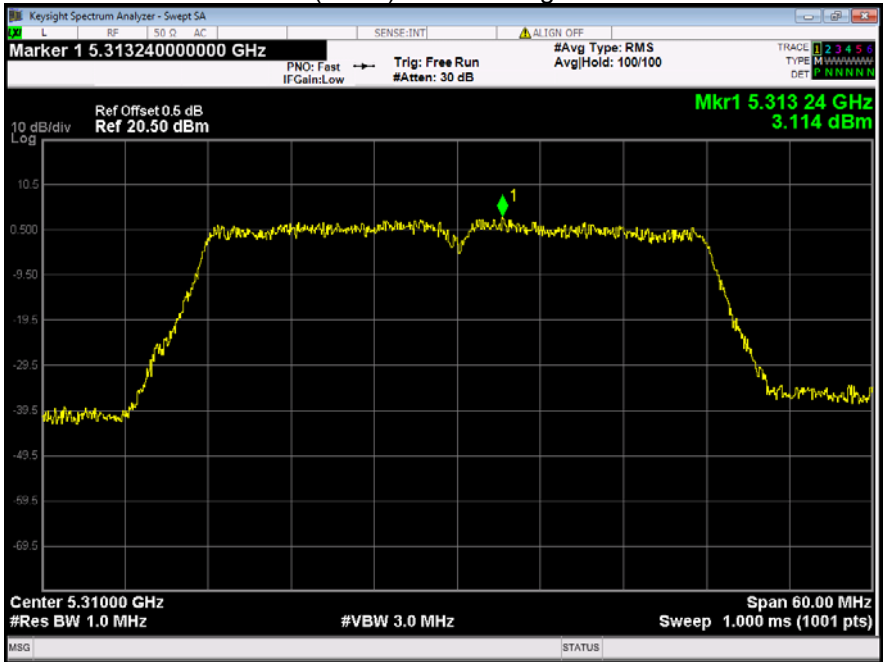
802.11ac(HT40) U-NII-2A High channel



802.11n(HT40) U-NII-2A Low channel



802.11n(HT40) U-NII-2A High channel



802.11ac(HT80) U-NII-2A Middle channel

