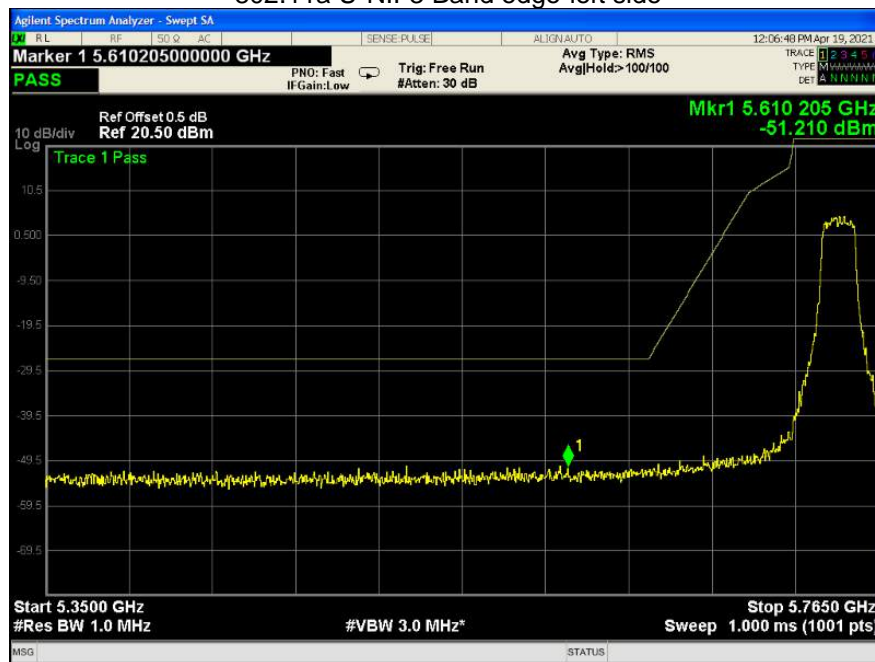
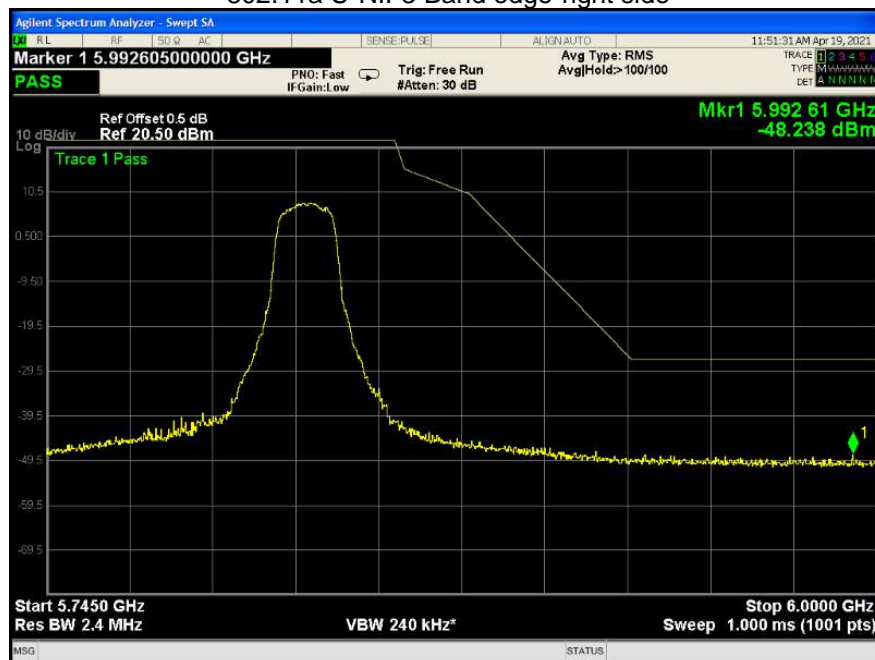


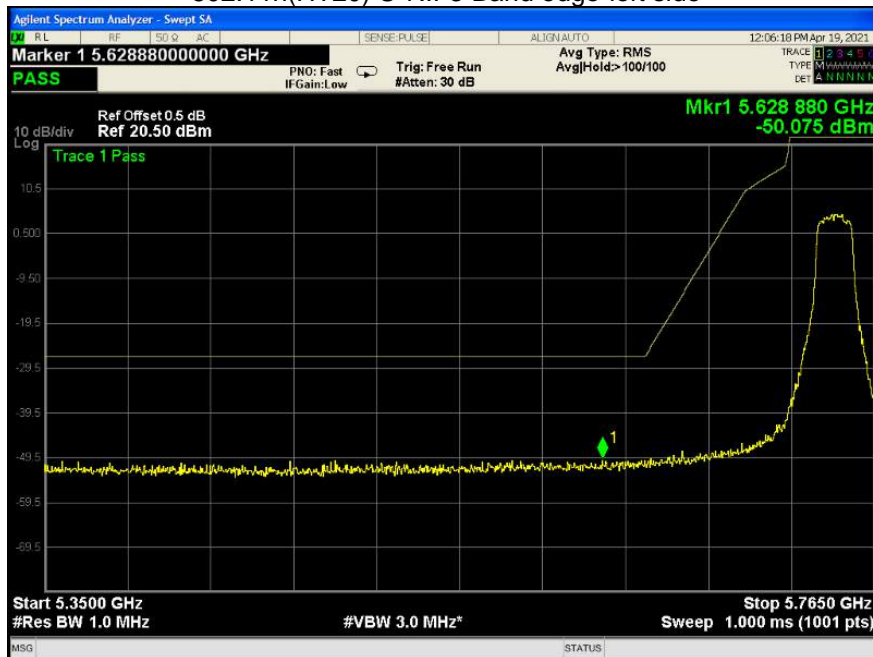
802.11a U-NII-3 Band edge-left side



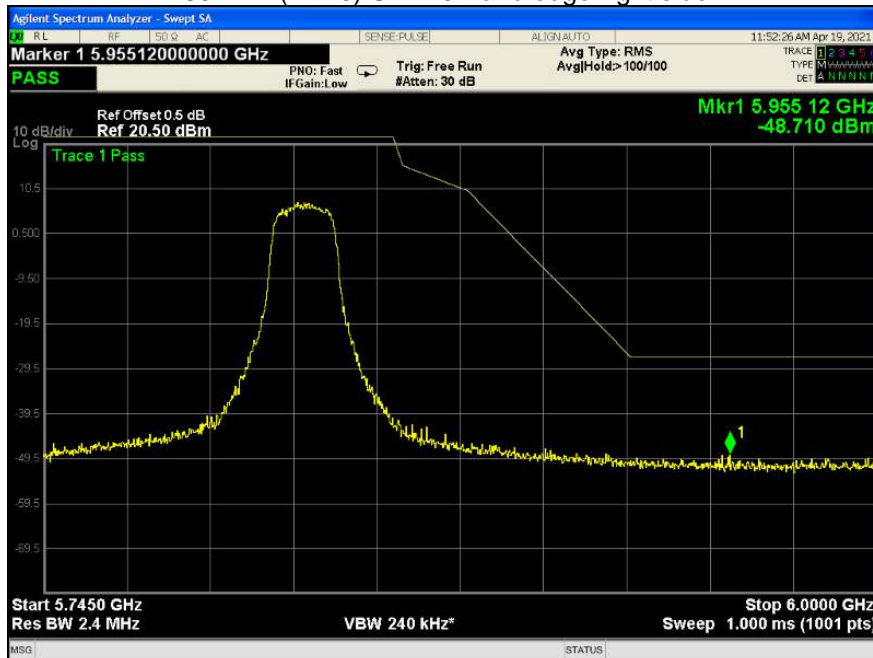
802.11a U-NII-3 Band edge-right side



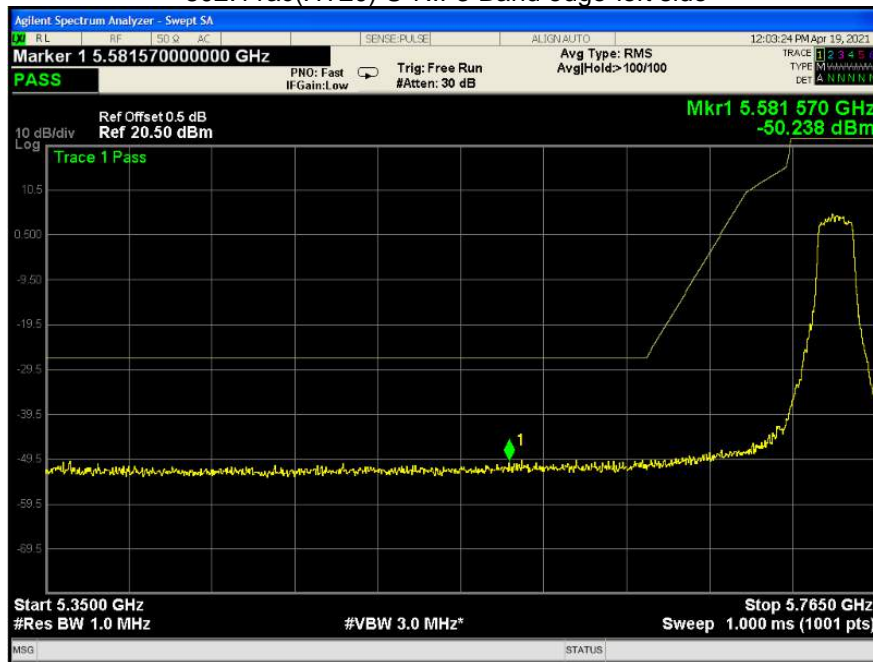
802.11n(HT20) U-NII-3 Band edge-left side



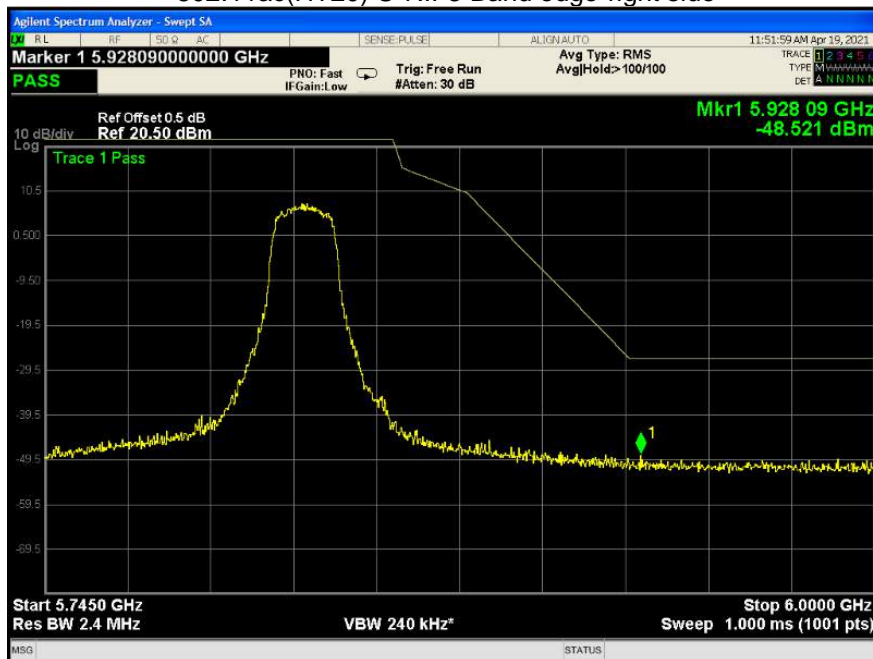
802.11n(HT20) U-NII-3 Band edge-right side



802.11ac(HT20) U-NII-3 Band edge-left side



802.11ac(HT20) U-NII-3 Band edge-right side



802.11ac(HT40) U-NII-3 Band edge-left side



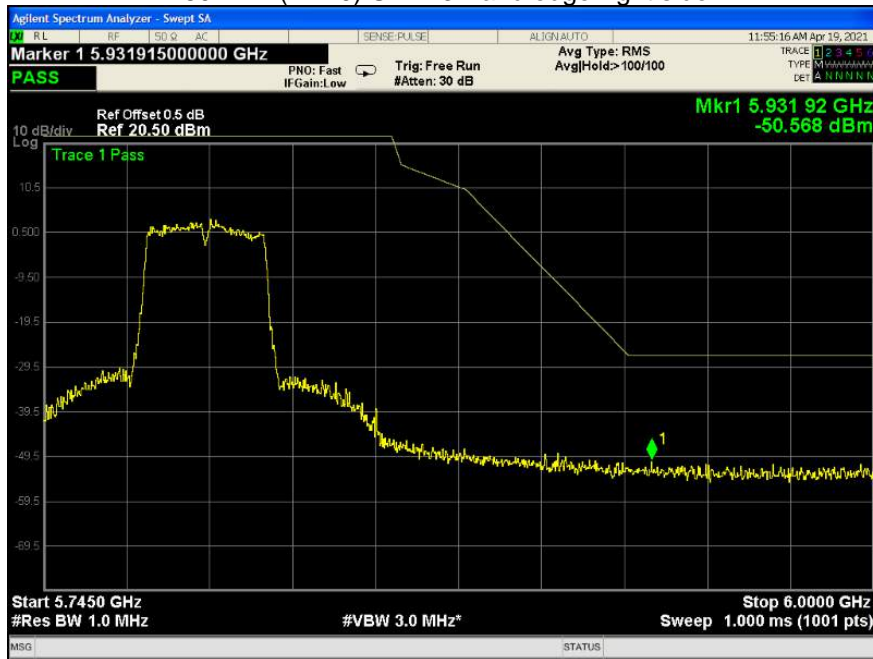
802.11ac(HT40) U-NII-3 Band edge-left side



802.11n(HT40) U-NII-3 Band edge-left side



802.11n(HT40) U-NII-3 Band edge-right side



802.11ac(HT80) U-NII-3 Band edge-left side

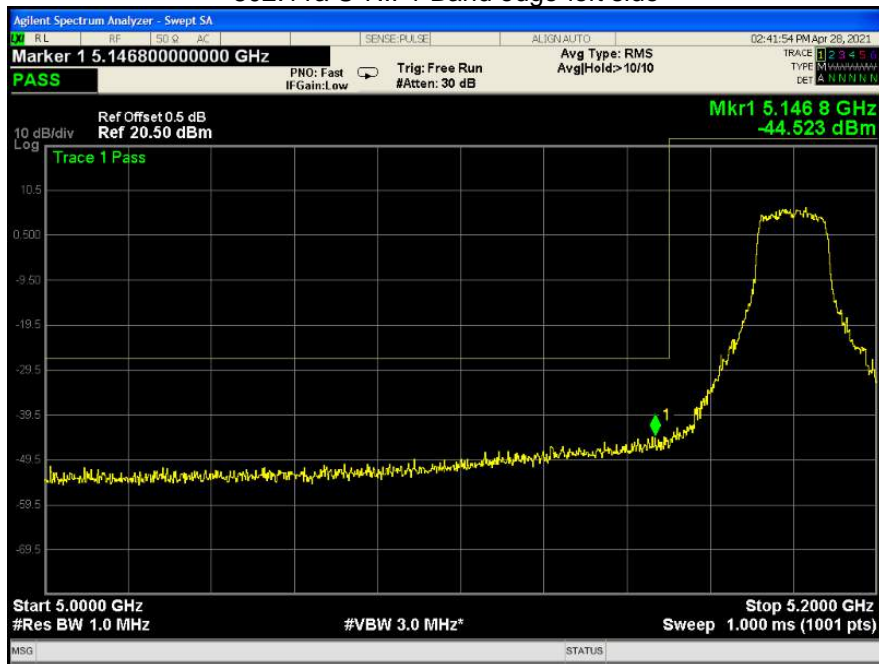


802.11ac(HT80) U-NII-3 Band edge-left side

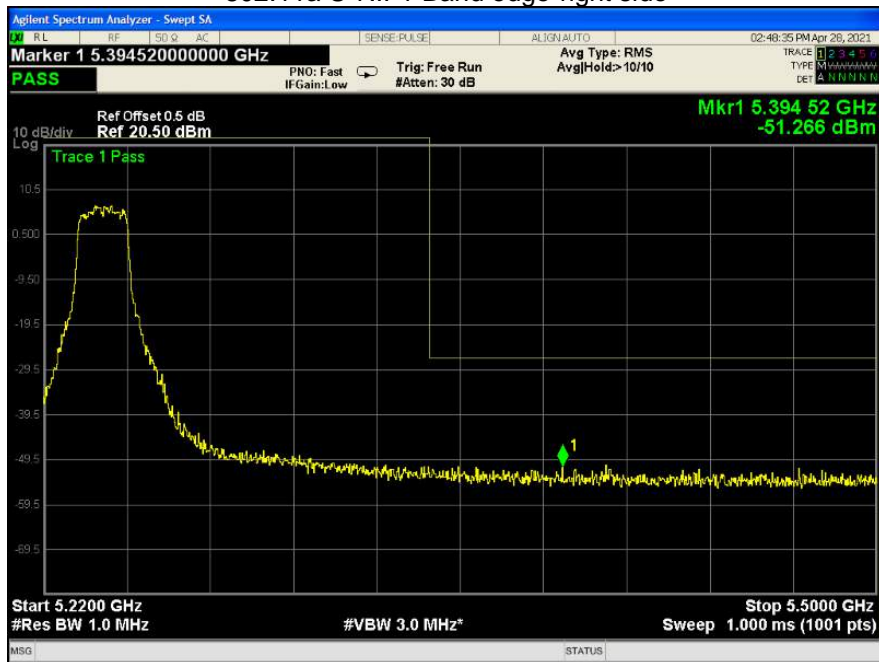


Antenna 1

802.11a U-NII-1 Band edge-left side



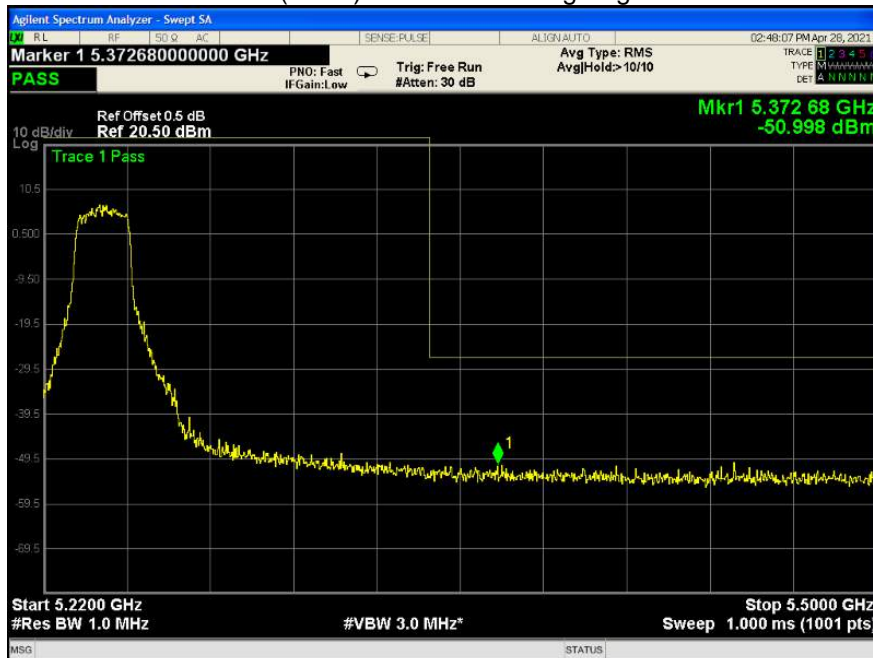
802.11a U-NII-1 Band edge-right side



802.11n(HT20) U-NII-1 Band edge-left side

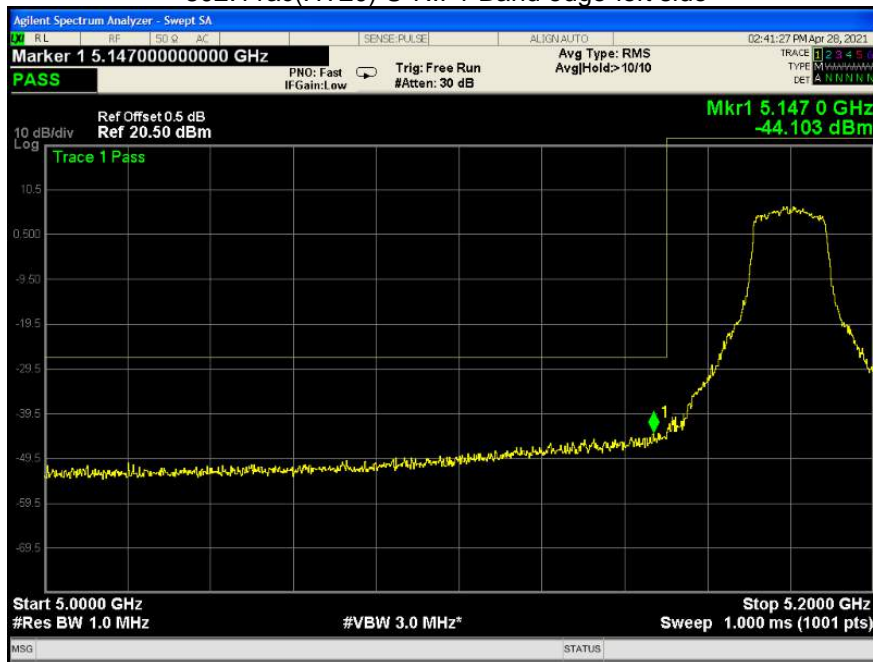


802.11n(HT20) U-NII-1 Band edge-right side

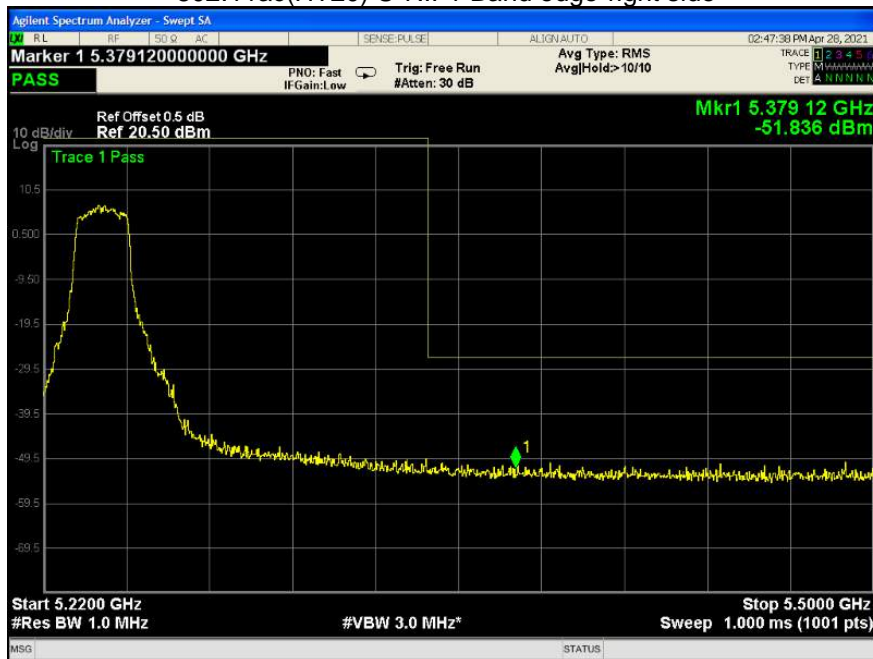




802.11ac(HT20) U-NII-1 Band edge-left side



802.11ac(HT20) U-NII-1 Band edge-right side



802.11ac(HT40) U-NII-1 Band edge-left side



802.11ac(HT40) U-NII-1 Band edge-right side



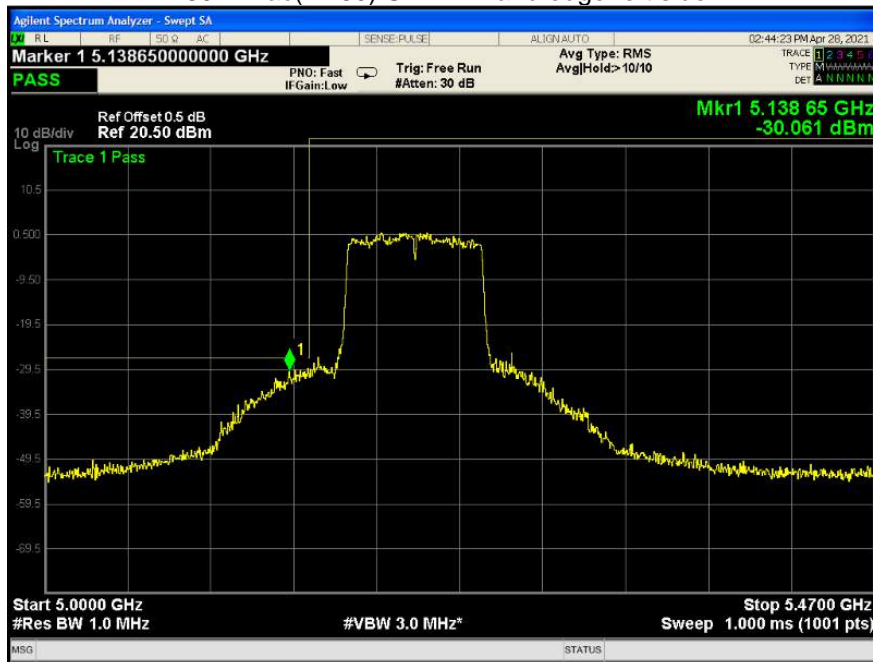
802.11n(HT40) U-NII-1 Band edge-left side



802.11n(HT40) U-NII-1 Band edge-right side



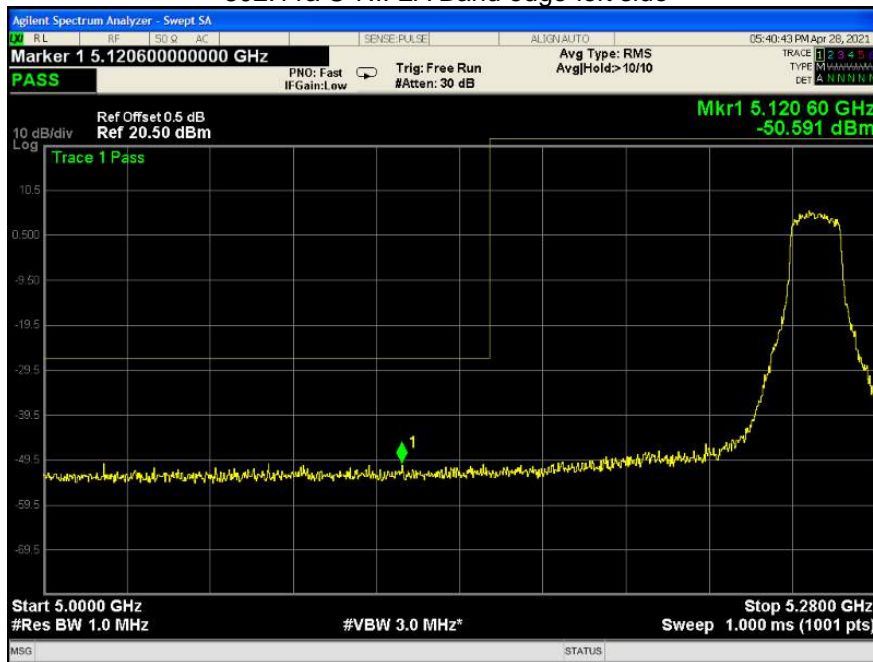
802.11ac(HT80) U-NII-1 Band edge-left side



802.11ac(HT80) U-NII-1 Band edge-right side



802.11a U-NII-2A Band edge-left side



802.11a U-NII-2A Band edge-right side



802.11n(HT20) U-NII-2A Band edge-left side



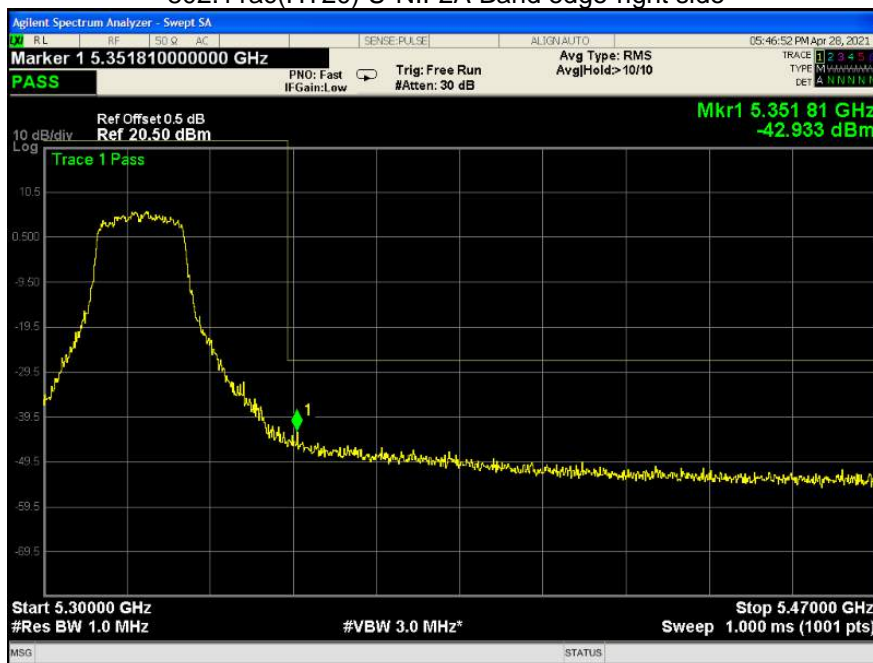
802.11n(HT20) U-NII-2A Band edge-right side



802.11ac(HT20) U-NII-2A Band edge-left side



802.11ac(HT20) U-NII-2A Band edge-right side



802.11ac(HT40) U-NII-2A Band edge-left side

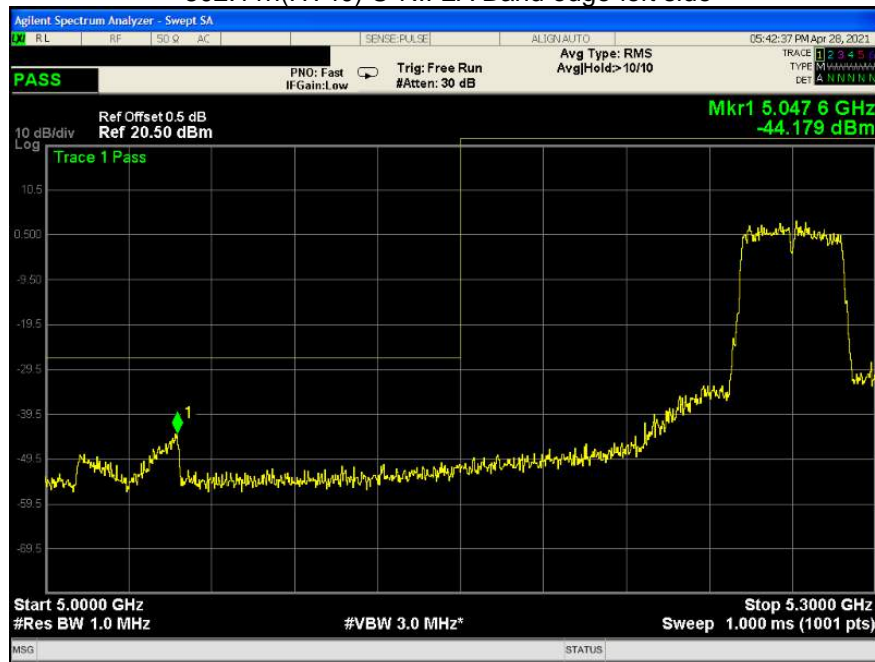


802.11ac(HT40) U-NII-2A Band edge-right side





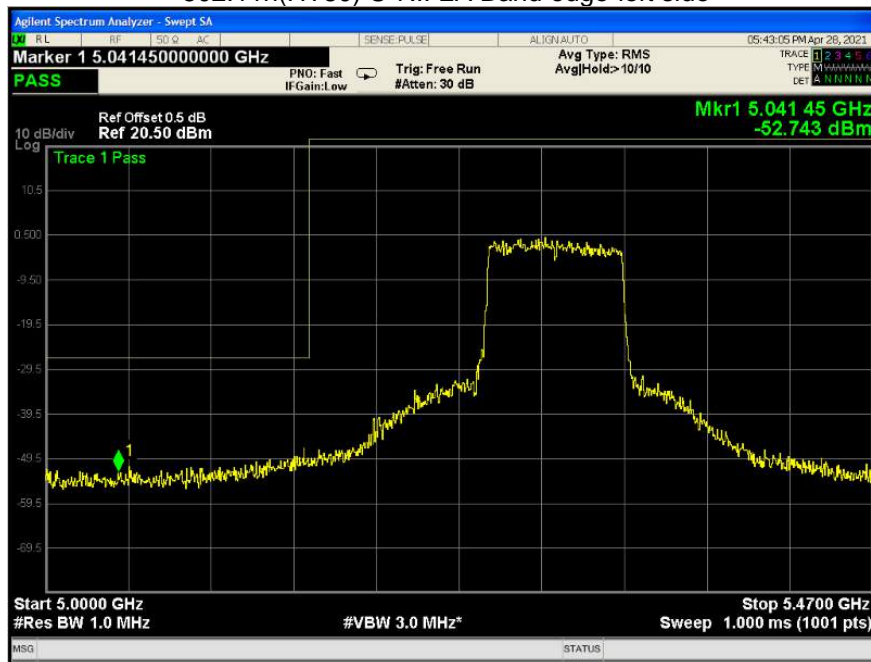
802.11n(HT40) U-NII-2A Band edge-left side



802.11n(HT40) U-NII-2A Band edge-right side



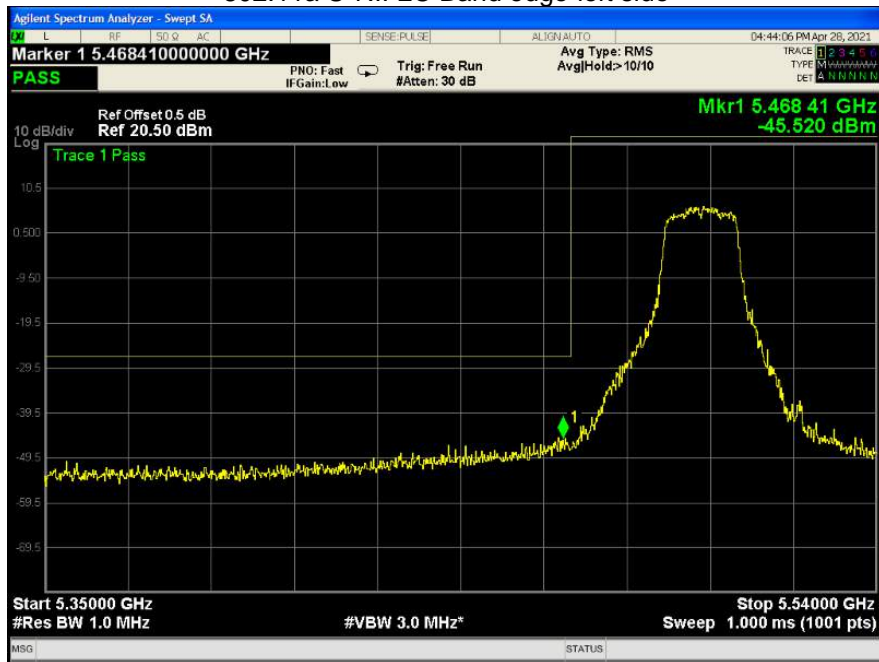
802.11n(HT80) U-NII-2A Band edge-left side



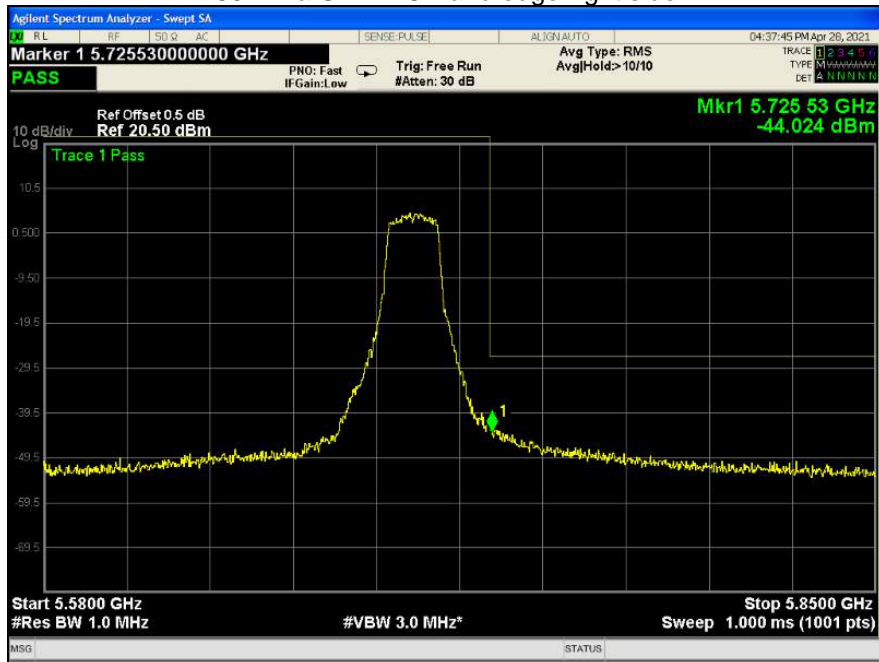
802.11n(HT80) U-NII-2A Band edge-right side



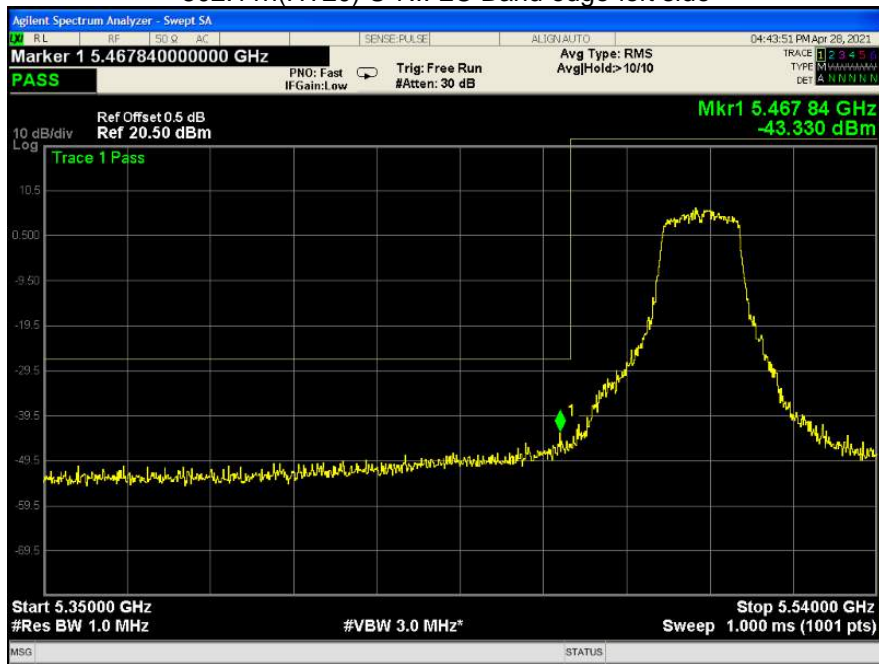
802.11a U-NII-2C Band edge-left side



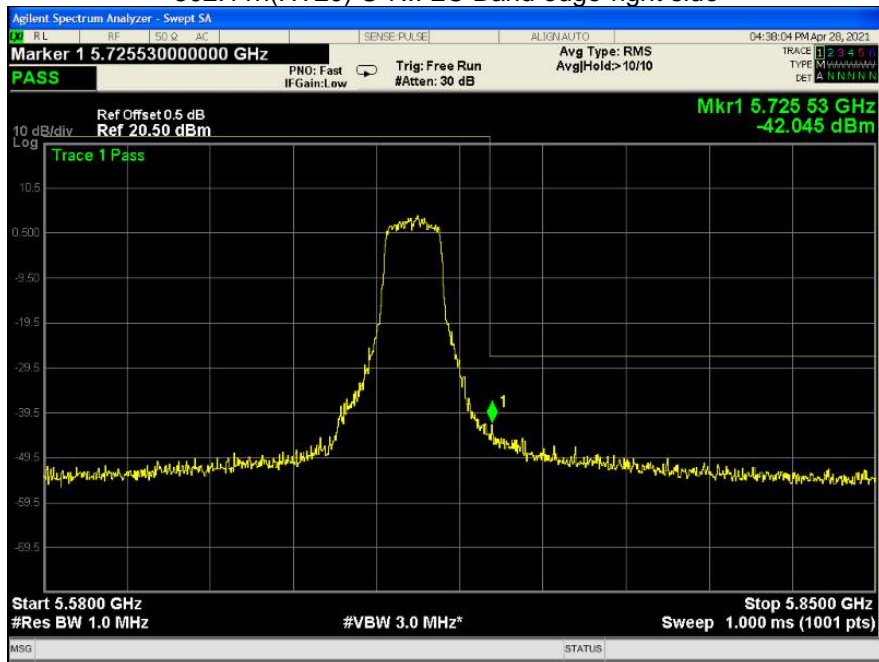
802.11a U-NII-2C Band edge-right side



802.11n(HT20) U-NII-2C Band edge-left side



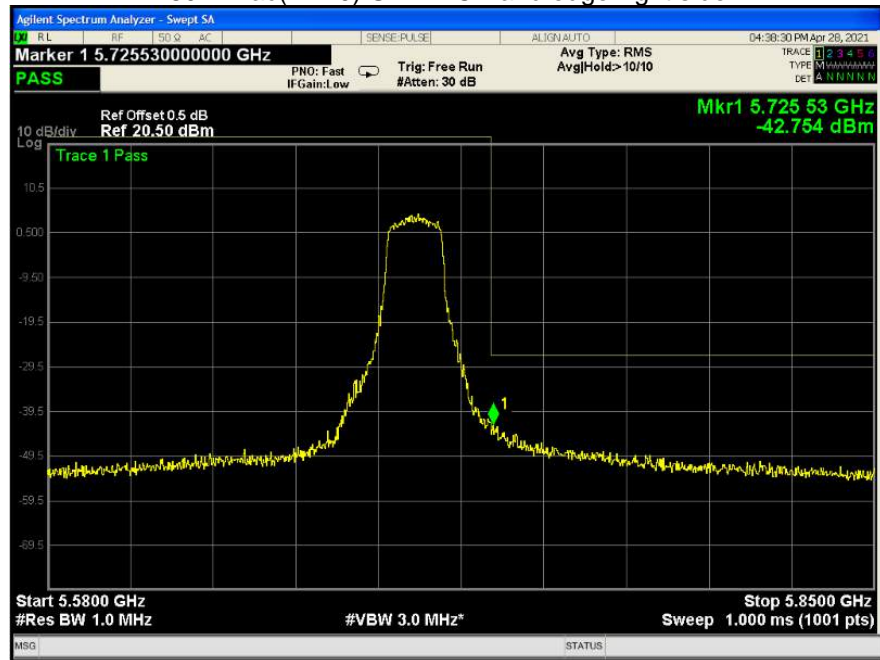
802.11n(HT20) U-NII-2C Band edge-right side



802.11ac(HT20) U-NII-2C Band edge-left side



802.11ac(HT20) U-NII-2C Band edge-right side



802.11ac(HT40) U-NII-2C Band edge-left side



802.11ac(HT40) U-NII-2C Band edge-right side



802.11n(HT40) U-NII-2C Band edge-left side



802.11n(HT40) U-NII-2C Band edge-right side



### 802.11ac(HT80) U-NII-2C Band edge-left side



### 802.11ac(HT80) U-NII-2C Band edge-right side

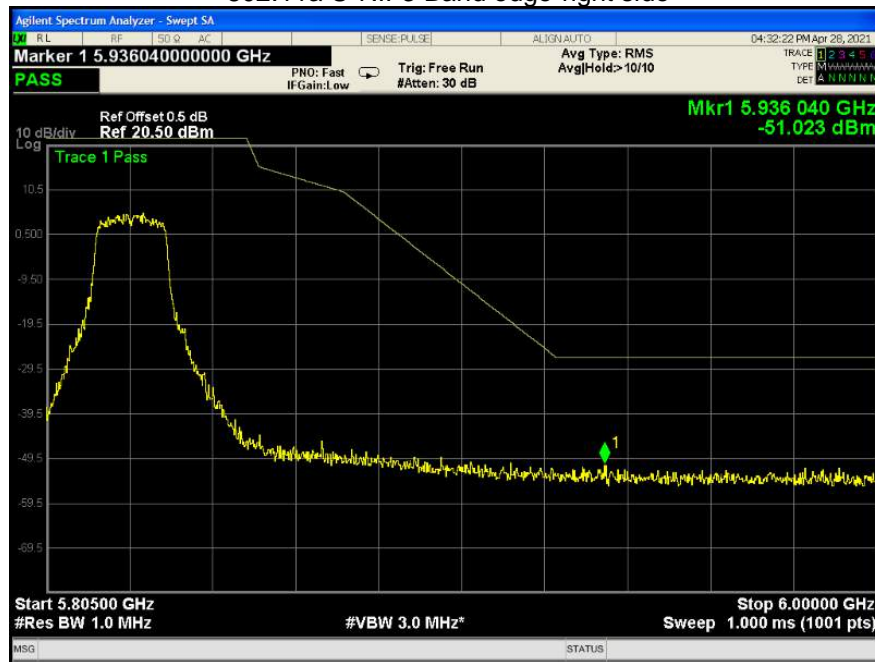




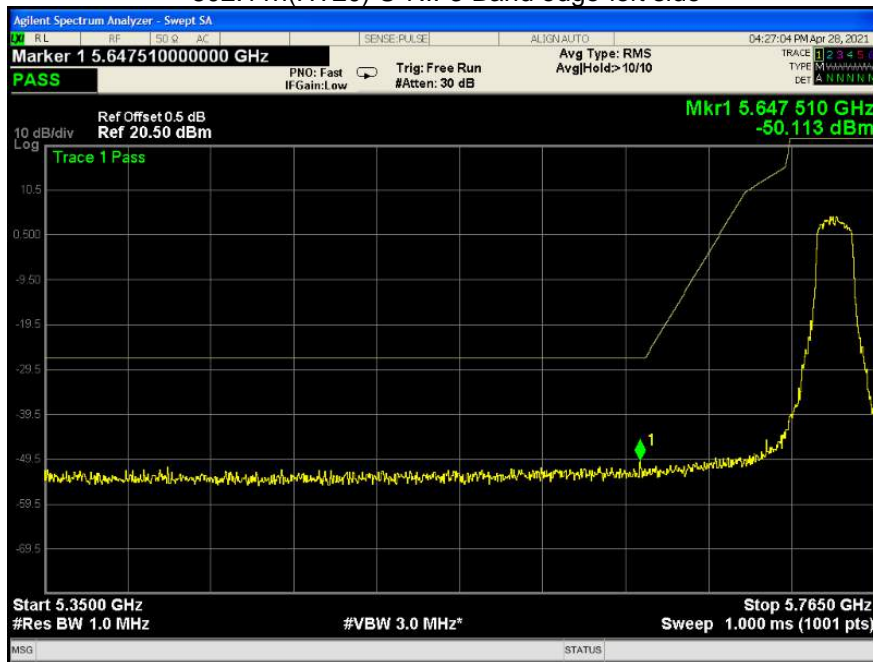
802.11a U-NII-3 Band edge-left side



802.11a U-NII-3 Band edge-right side



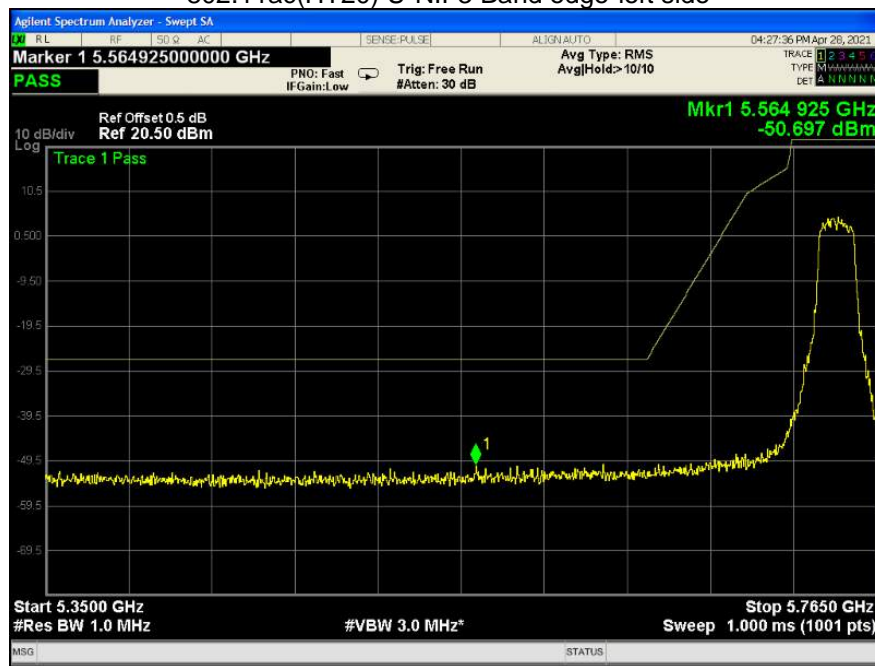
802.11n(HT20) U-NII-3 Band edge-left side



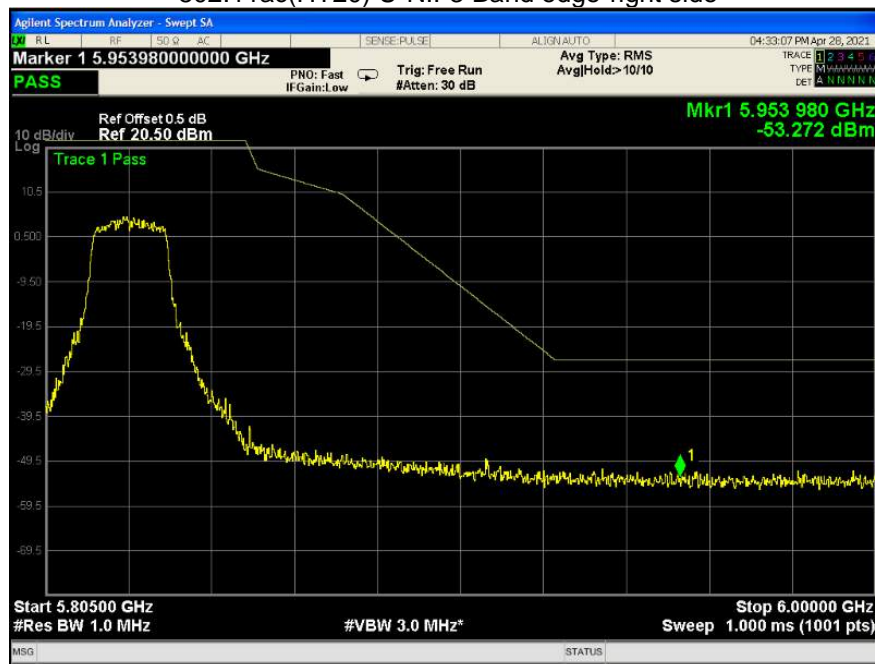
802.11n(HT20) U-NII-3 Band edge-right side



802.11ac(HT20) U-NII-3 Band edge-left side



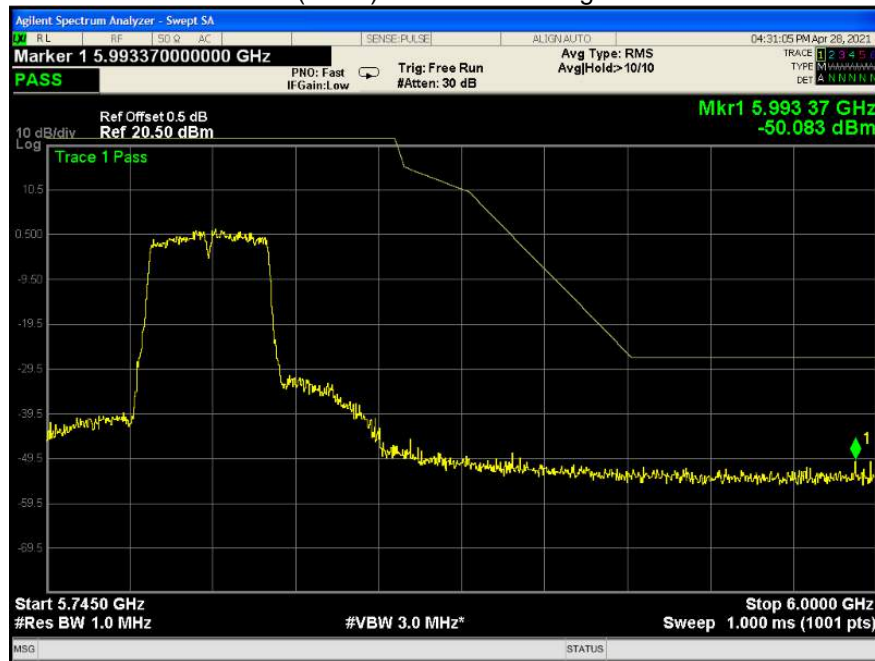
802.11ac(HT20) U-NII-3 Band edge-right side



802.11ac(HT40) U-NII-3 Band edge-left side



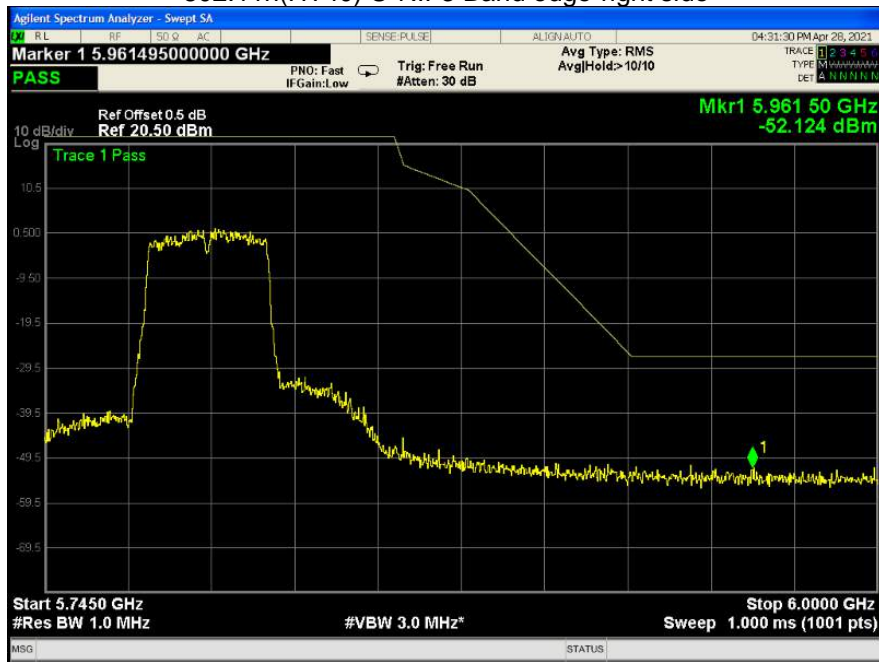
802.11ac(HT40) U-NII-3 Band edge-left side



802.11n(HT40) U-NII-3 Band edge-left side



802.11n(HT40) U-NII-3 Band edge-right side



802.11ac(HT80) U-NII-3 Band edge-left side



802.11ac(HT80) U-NII-3 Band edge-left side



## 11 6 dB Bandwidth

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section C
Test Limit:	≥ 500 kHz
Test Result:	PASS

### 11.1 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: RBW = 100kHz, VBW = 300kHz

### 11.2 Test Result:

Table 1:Antenna 0

Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	15.54	15.63	15.48
	802.11n(HT20)	15.96	15.96	16.56
	802.11n(HT40)	36.24	/	35.58
	802.11ac(HT20)	15.96	15.45	16.20
	802.11ac(HT40)	36.24	/	35.70
	802.11ac(HT80)	75.0	/	/

Table 2:Antenna 1

Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	15.51	15.63	15.39
	802.11n(HT20)	16.77	15.42	15.99
	802.11n(HT40)	36.36	/	36.24
	802.11ac(HT20)	16.62	15.96	15.99
	802.11ac(HT40)	36.30	/	35.88
	802.11ac(HT80)	75.24	/	/

Test result plots shown as follows: Antenna 0

802.11a U-NII-3 Low channel



802.11a U-NII-3 Middle channel





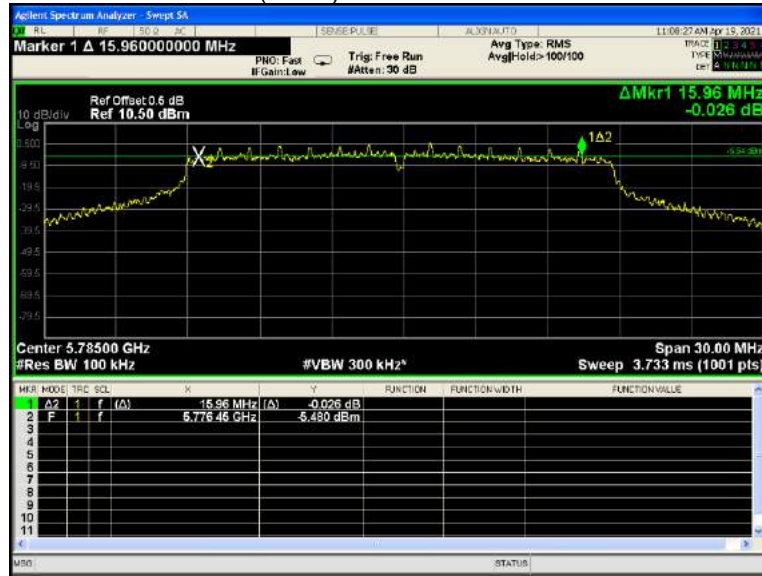
802.11a U-NII-3 High channel



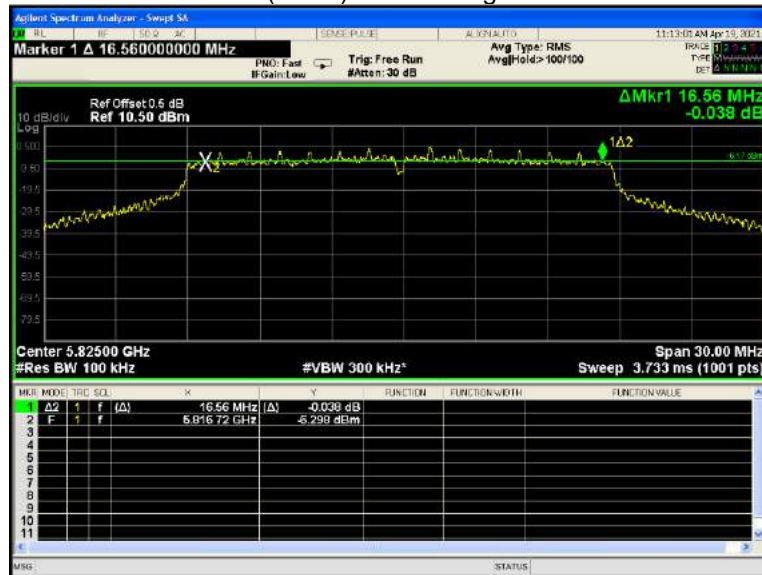
802.11n(HT20) U-NII-3 Low channel



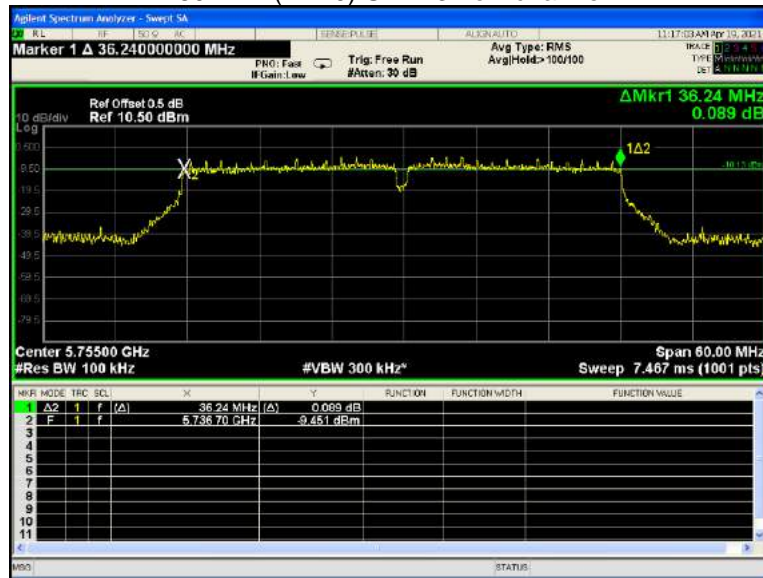
802.11n(HT20) U-NII-3 Middle channel



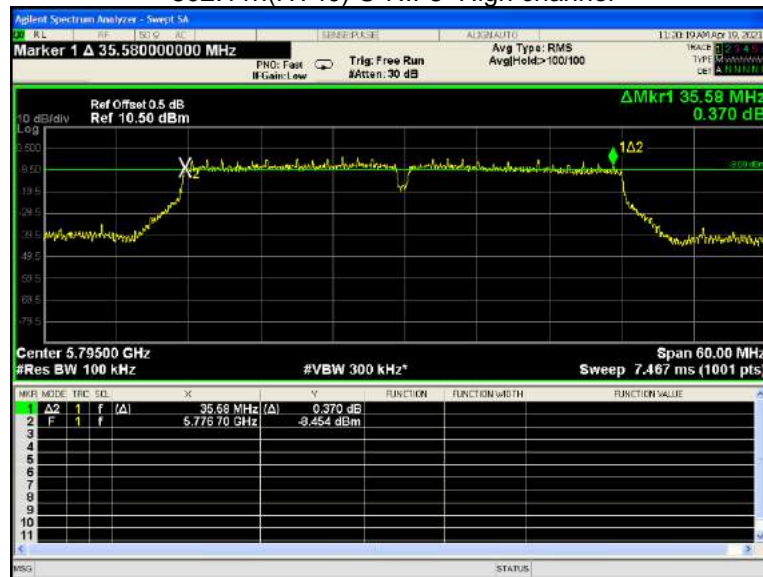
802.11n(HT20) U-NII-3 High channel



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



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



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



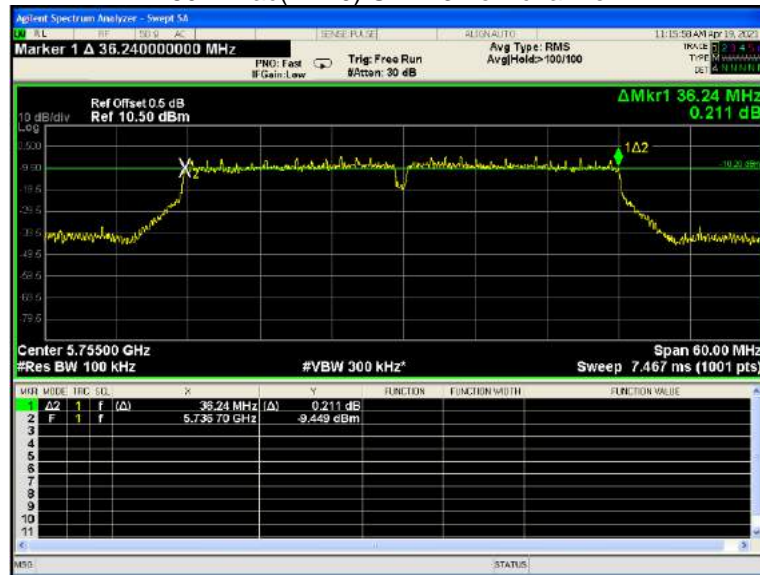
802.11ac(HT20) U-NII-3 Middle channel



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



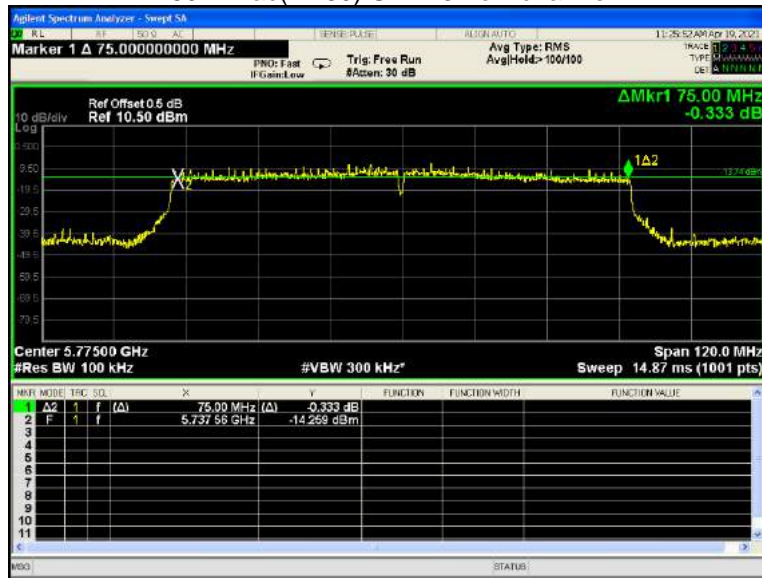
802.11ac(HT40) U-NII-3 Low channel



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



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



Antenna 1

802.11a U-NII-3 Low channel



802.11a U-NII-3 Middle channel



802.11a U-NII-3 High channel

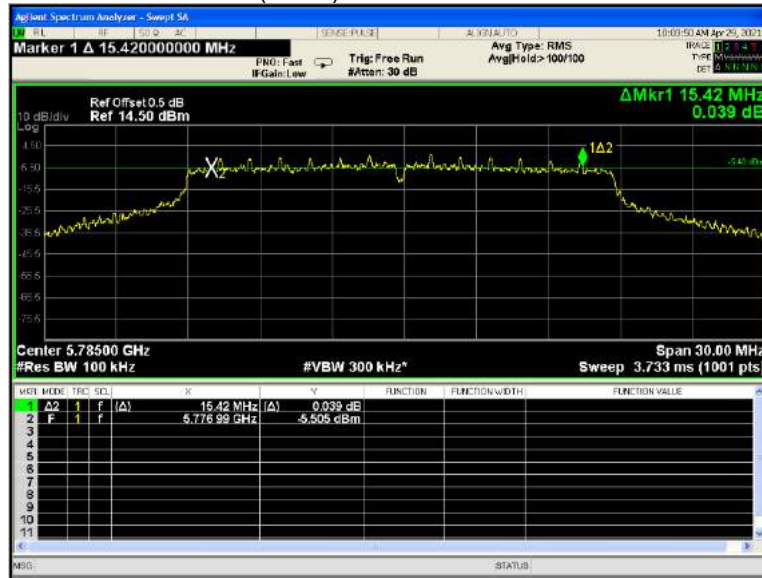


802.11n(HT20) U-NII-3 Low channel





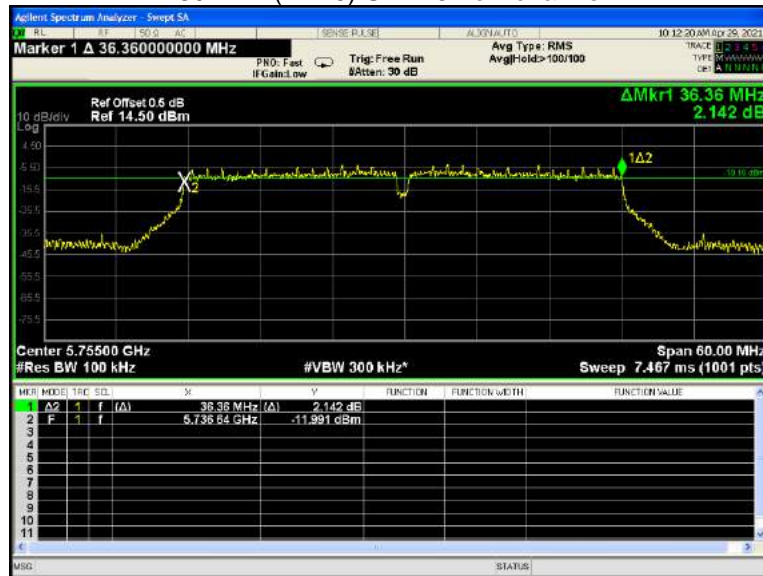
802.11n(HT20) U-NII-3 Middle channel



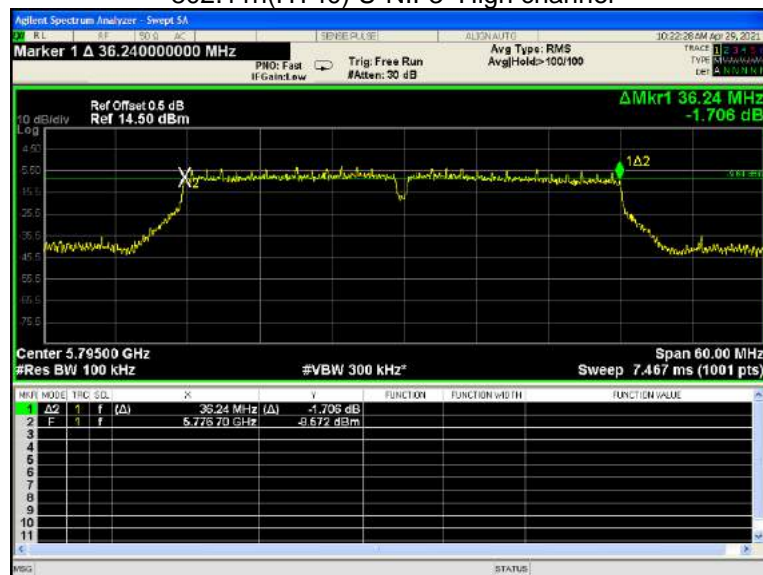
802.11n(HT20) U-NII-3 High channel



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



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



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



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



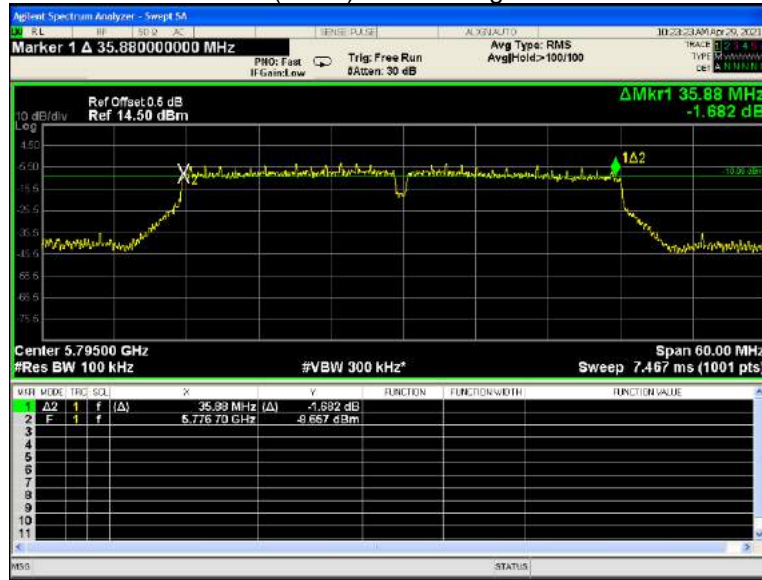
802.11ac(HT20) U-NII-3 High channel



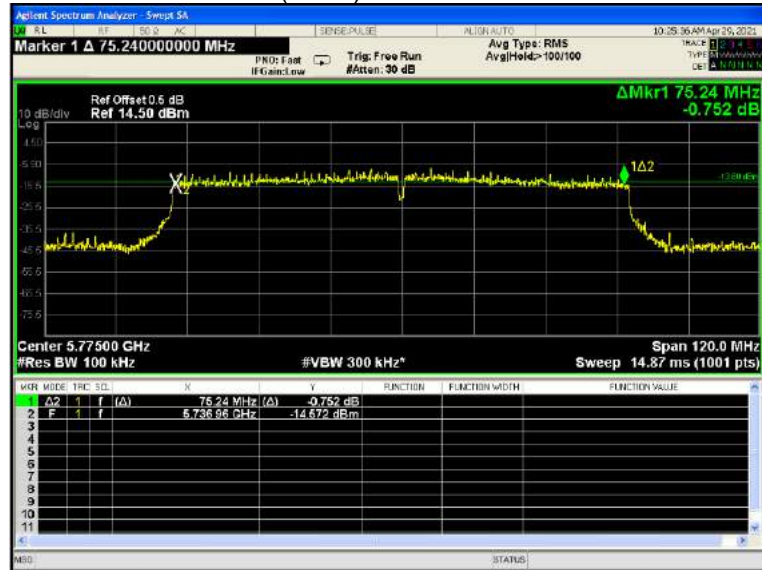
802.11ac(HT40) U-NII-3 Low channel



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



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



## 12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section D
Test Limit:	No restriction limits
Test Result:	PASS

### 12.1 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: RBW = 1% to 5% of the OBW, VBW = 3x RBW

### 12.2 Test Result:

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1 (ANT0)	802.11a	21.54	22.64	21.48	16.552	16.516	16.548
	802.11n(HT20)	21.86	22.25	22.35	17.783	17.728	17.773
	802.11ac(HT20)	23.05	22.88	22.18	17.729	17.754	17.759
	802.11n(HT40)	49.48	/	41.08	36.229	/	36.111
	802.11ac(HT40)	47.89	/	41.29	36.270	/	36.178
	802.11ac(HT80)	94.54	/	/	75.590	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2A (ANT0)	802.11a	21.44	22.31	21.87	16.563	16.577	16.568
	802.11n(HT20)	22.51	22.20	22.80	17.789	17.7793	17.795
	802.11ac(HT20)	22.75	23.08	22.35	17.776	17.805	17.777
	802.11n(HT40)	41.42	/	41.01	36.316	/	36.219
	802.11ac(HT40)	41.51	/	41.34	36.306	/	36.213
	802.11ac(HT80)	82.73	/	/	75.698	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
<b>U-NII-2C (ANT0)</b>	802.11a	22.83	22.04	22.14	16.623	16.579	16.518
	802.11n(HT20)	22.76	23.24	22.39	17.815	17.797	17.771
	802.11ac(HT20)	23.28	23.08	22.26	17.817	17.782	17.773
	802.11n(HT40)	40.99	41.29	40.31	36.161	36.232	36.145
	802.11ac(HT40)	41.00	40.08	40.07	36.191	36.230	36.112
	802.11ac(HT80)	82.13	81.69	/	75.698	75.534	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
<b>U-NII-3 (ANT0)</b>	802.11a	21.64	22.18	22.10	16.459	16.555	16.539
	802.11n(HT20)	22.82	22.07	22.75	17.772	17.776	17.768
	802.11ac(HT20)	22.79	22.14	23.25	17.779	17.814	17.764
	802.11n(HT40)	40.31	/	40.67	36.162	/	36.212
	802.11ac(HT40)	40.01	/	41.00	36.162	/	36.203
	802.11ac(HT80)	82.03	/	/	75.616	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
<b>U-NII-1 (ANT1)</b>	802.11a	23.01	23.15	22.86	16.633	16.604	16.570
	802.11n(HT20)	23.0	23.25	22.70	17.801	17.768	17.794
	802.11ac(HT20)	23.19	24.29	23.30	17.799	17.798	17.783
	802.11n(HT40)	41.72	/	41.57	36.183	/	36.186
	802.11ac(HT40)	41.53	/	40.88	36.165	/	36.144
	802.11ac(HT80)	83.27	/	/	75.745	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
<b>U-NII-2A (ANT1)</b>	802.11a	22.65	22.56	22.12	16.589	16.591	16.543
	802.11n(HT20)	22.47	23.55	23.08	17.742	17.776	17.771
	802.11ac(HT20)	23.02	23.31	22.38	17.762	17.785	17.754
	802.11n(HT40)	41.08	/	41.01	36.170	/	36.142
	802.11ac(HT40)	41.51	/	40.93	36.145	/	36.155
	802.11ac(HT80)	83.45	/	/	75.876	/	/

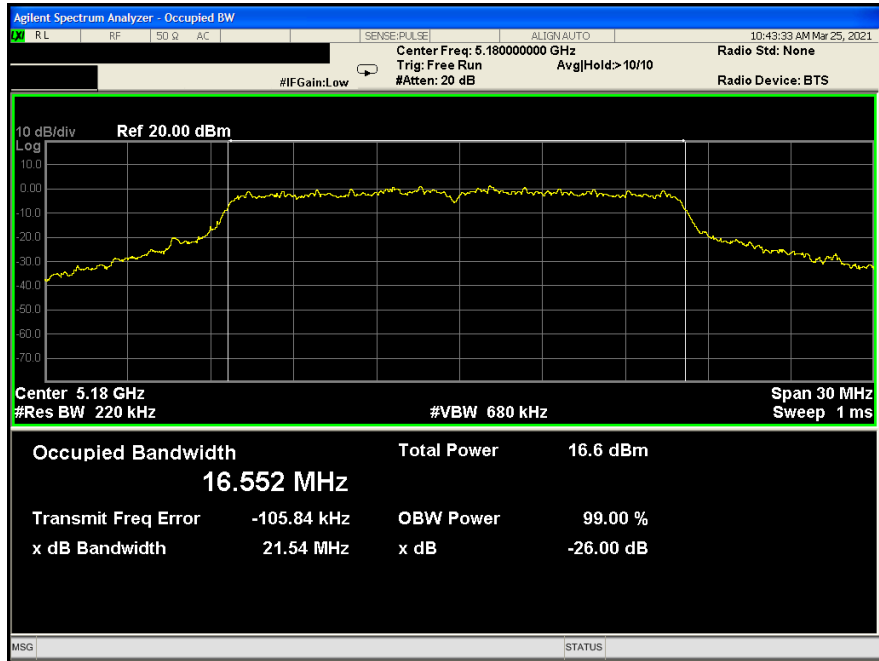
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
<b>U-NII-2C (ANT1)</b>	802.11a	22.07	22.03	22.11	16.540	16.565	16.526
	802.11n(HT20)	22.64	22.76	23.0	17.693	17.744	17.733
	802.11ac(HT20)	23.86	24.01	22.92	17.745	17.791	17.753
	802.11n(HT40)	40.88	41.08	41.28	36.096	36.208	36.225
	802.11ac(HT40)	40.60	41.40	40.98	36.1	36.151	36.173
	802.11ac(HT80)	81.95	82.11	/	75.507	75.449	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
<b>U-NII-3 (ANT1)</b>	802.11a	22.83	22.42	21.58	16.536	16.554	16.547
	802.11n(HT20)	21.60	22.45	22.65	17.683	17.774	17.712
	802.11ac(HT20)	22.94	22.43	23.11	17.756	17.727	17.759
	802.11n(HT40)	41.22	/	40.95	36.175	/	36.175
	802.11ac(HT40)	41.09	/	41.04	36.131	/	36.148
	802.11ac(HT80)	84.27	/	/	75.817	/	/

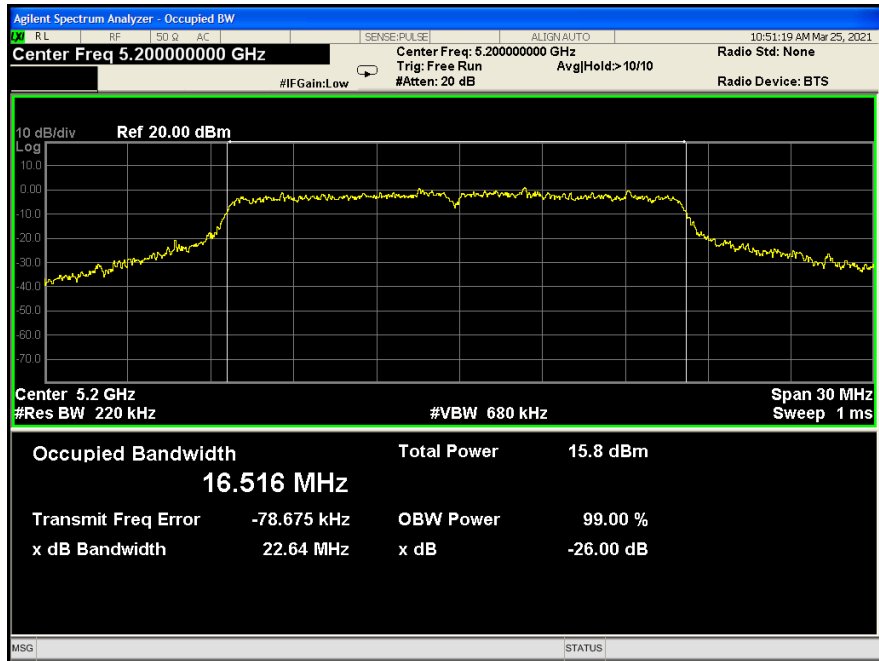


Test result plots shown as follows: Antenna 0

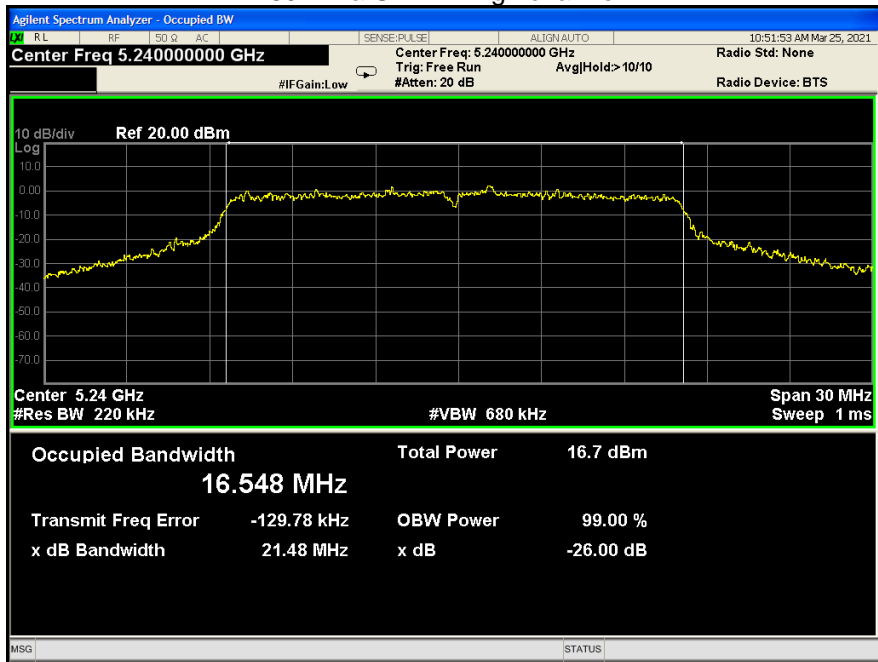
802.11a U-NII-1 Low channel



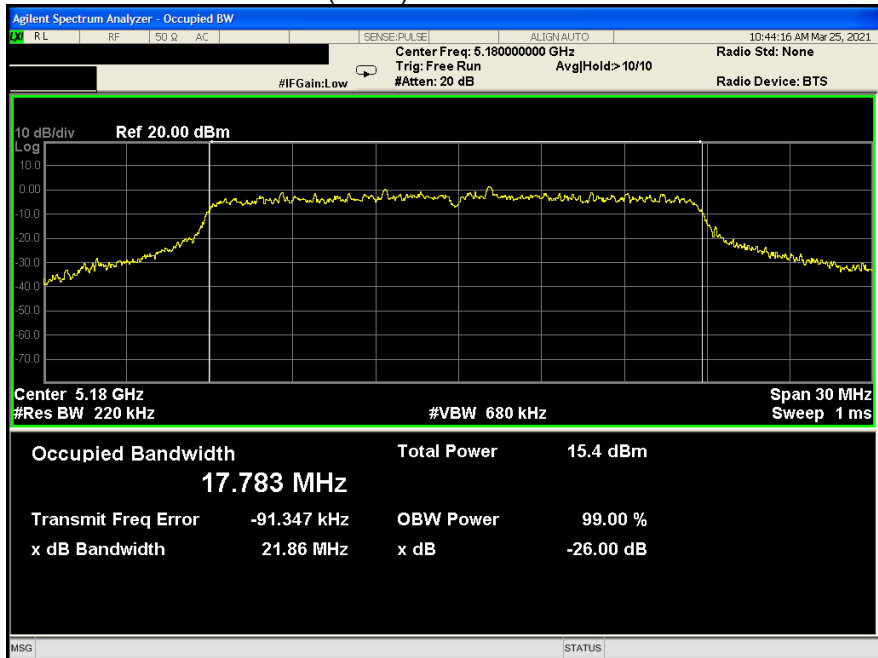
802.11a U-NII-1 Middle channel



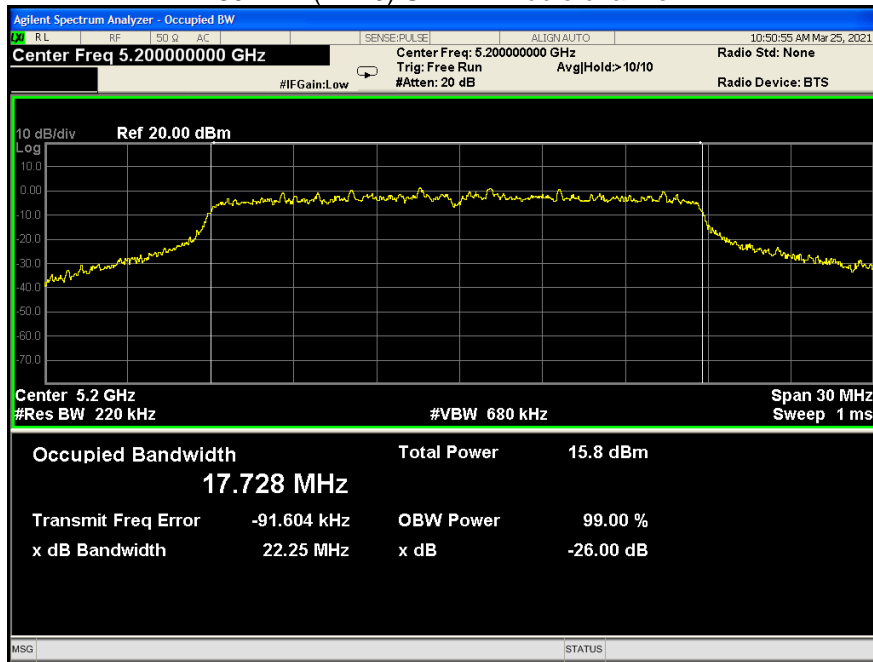
802.11a U-NII-1 High channel



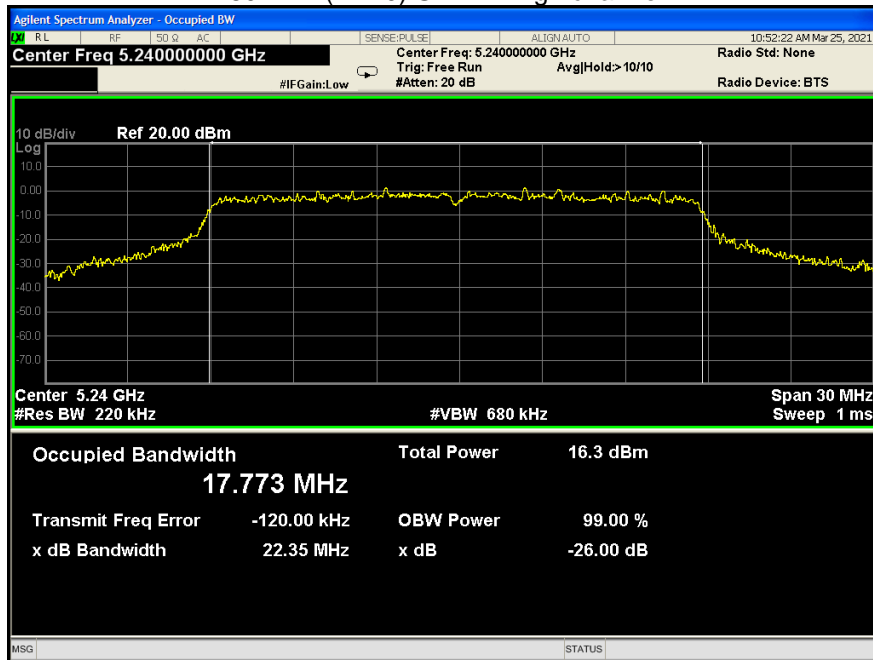
802.11n(HT20) U-NII-1 Low channel



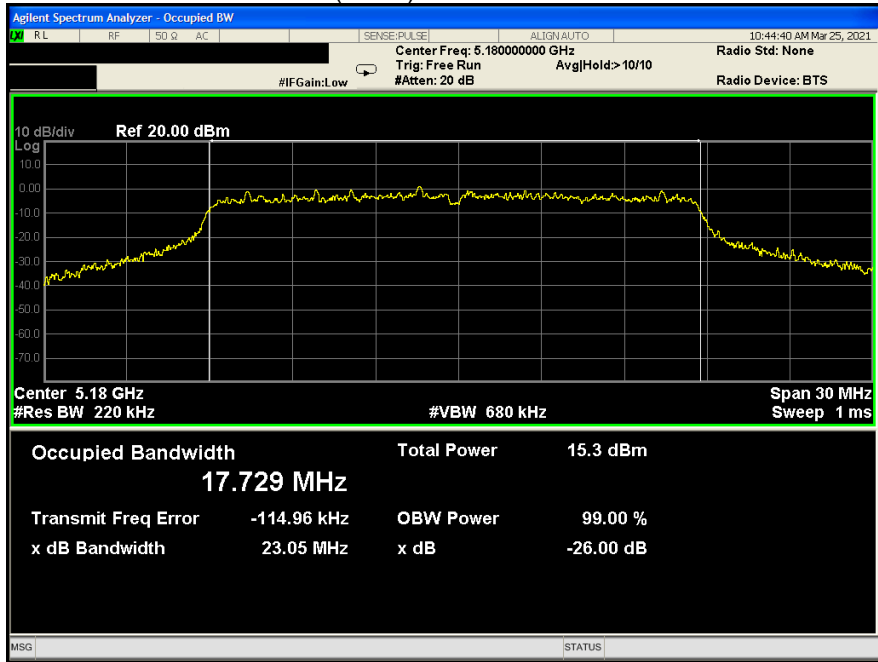
802.11n(HT20) U-NII-1 Middle channel



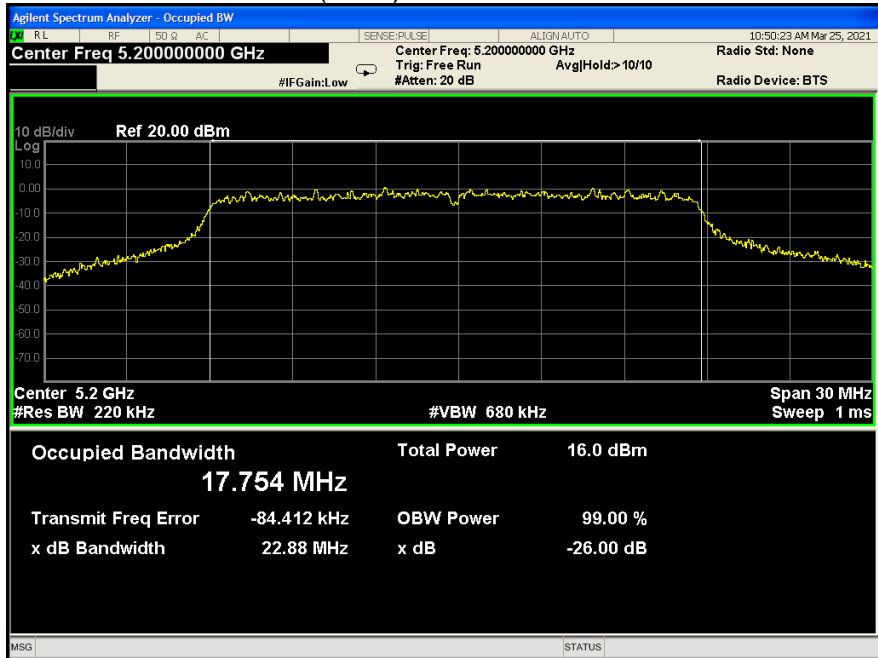
802.11n(HT20) U-NII-1 High channel



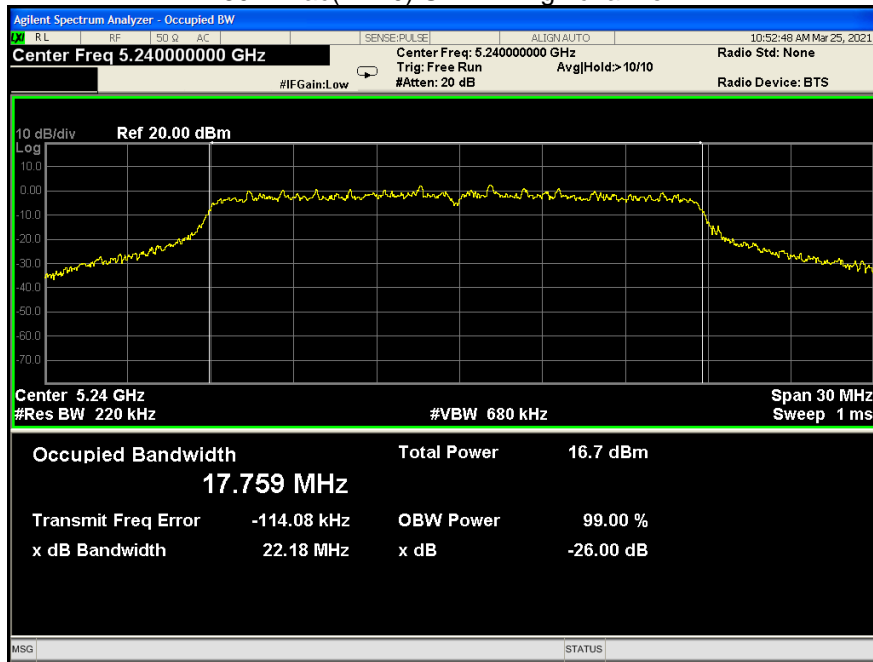
802.11ac(HT20) U-NII-1 Low channel



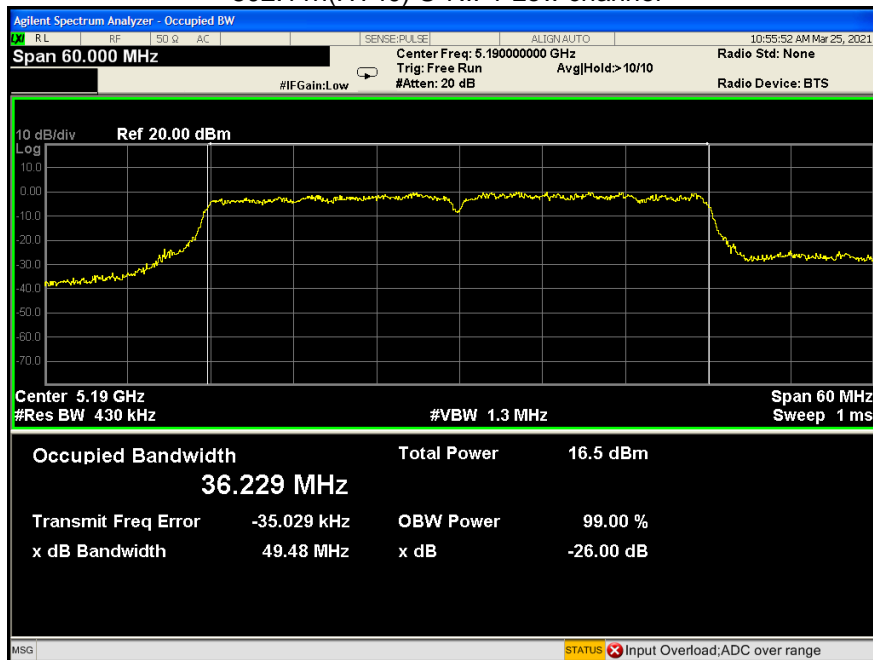
802.11ac(HT20) U-NII-1 Middle channel



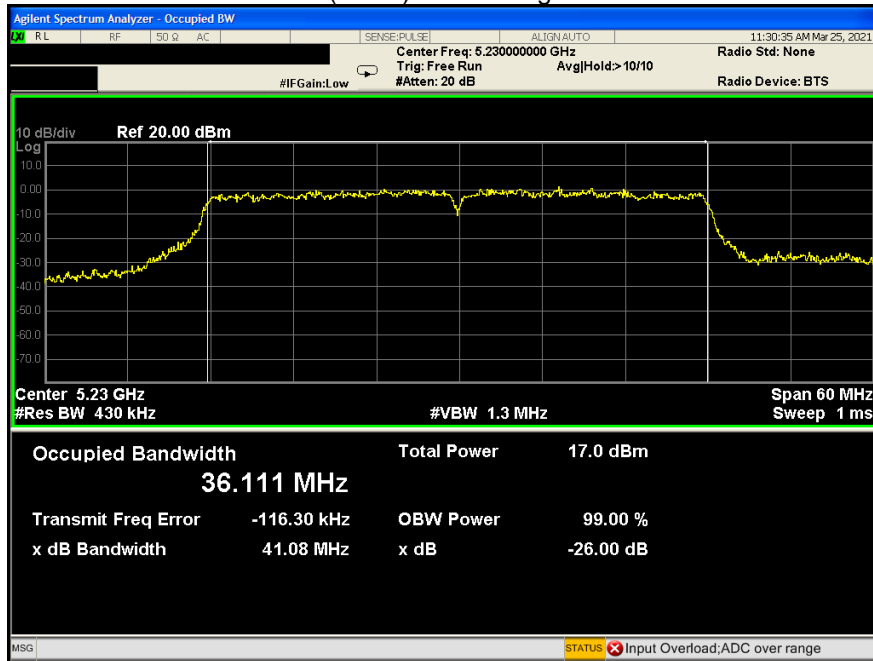
802.11ac(HT20) U-NII-1 High channel



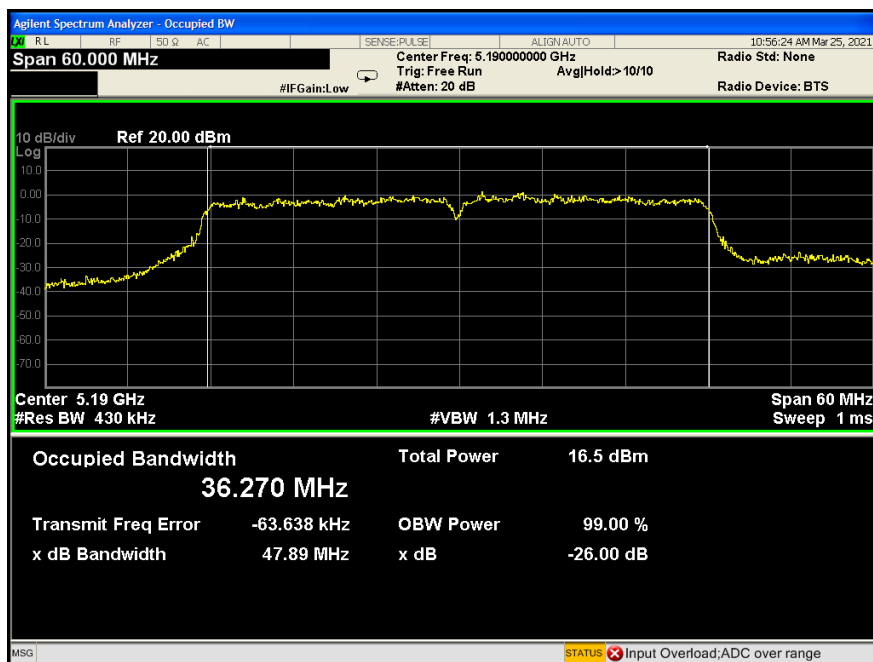
802.11n(HT40) U-NII-1 Low channel



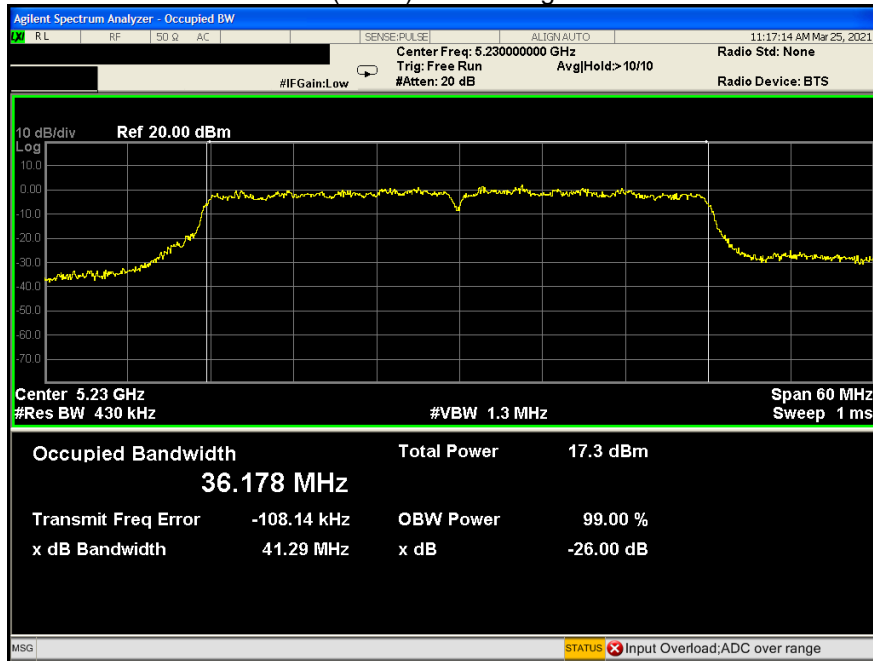
802.11n(HT40) U-NII-1 Highchannel



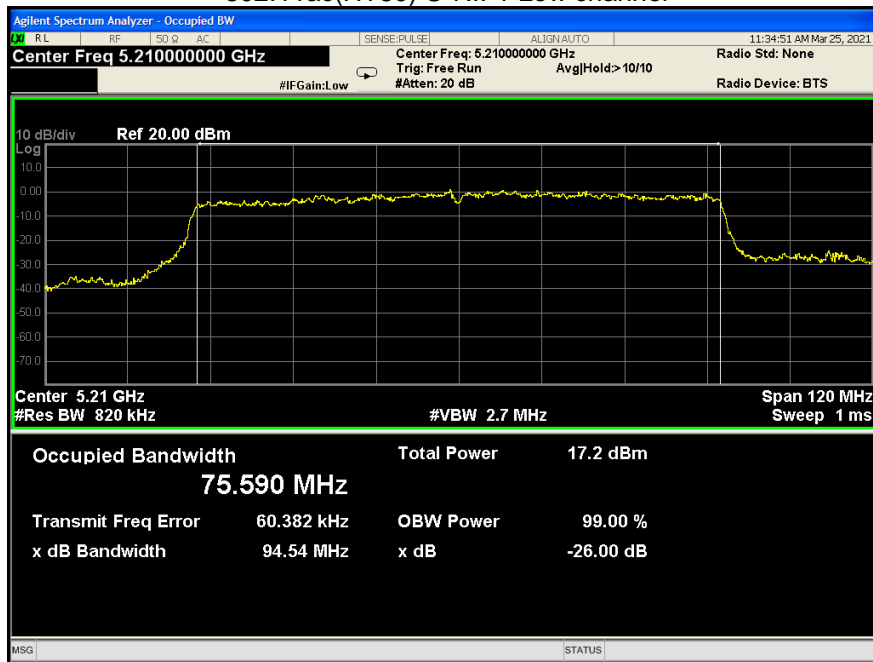
802.11ac(HT40) U-NII-1 Low channel



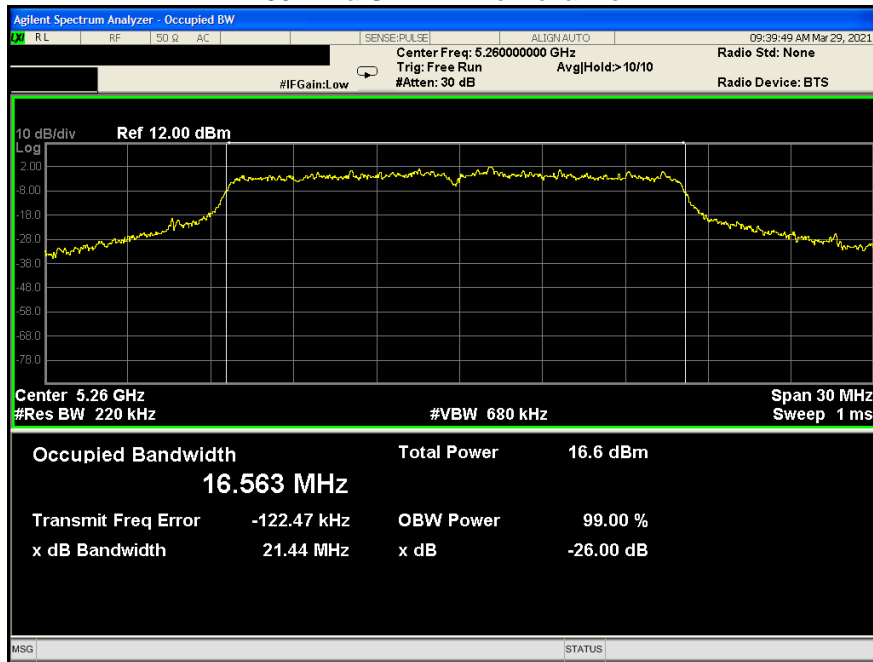
802.11ac(HT40) U-NII-1 High channel



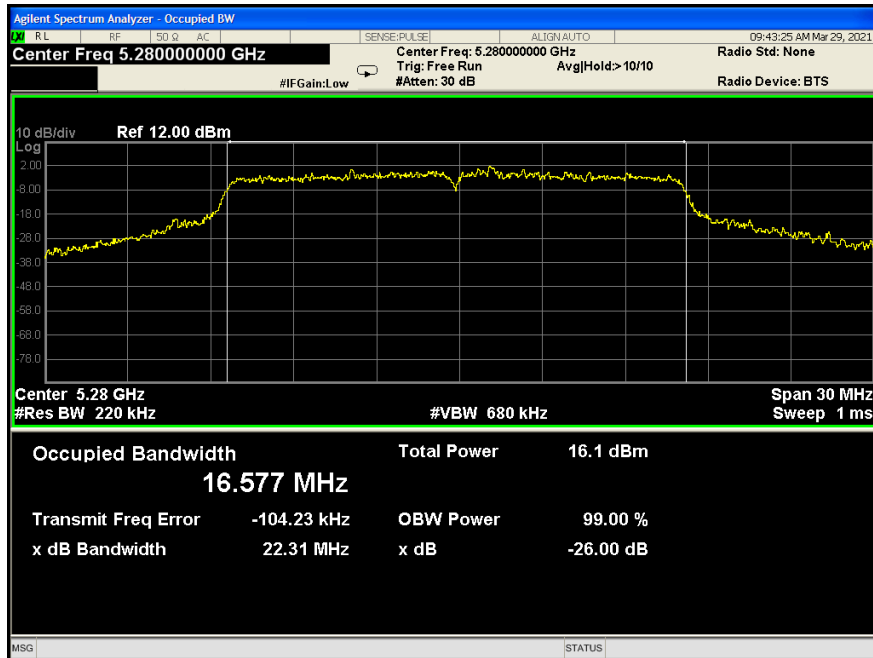
802.11ac(HT80) U-NII-1 Low channel



802.11a U-NII-2A Low channel

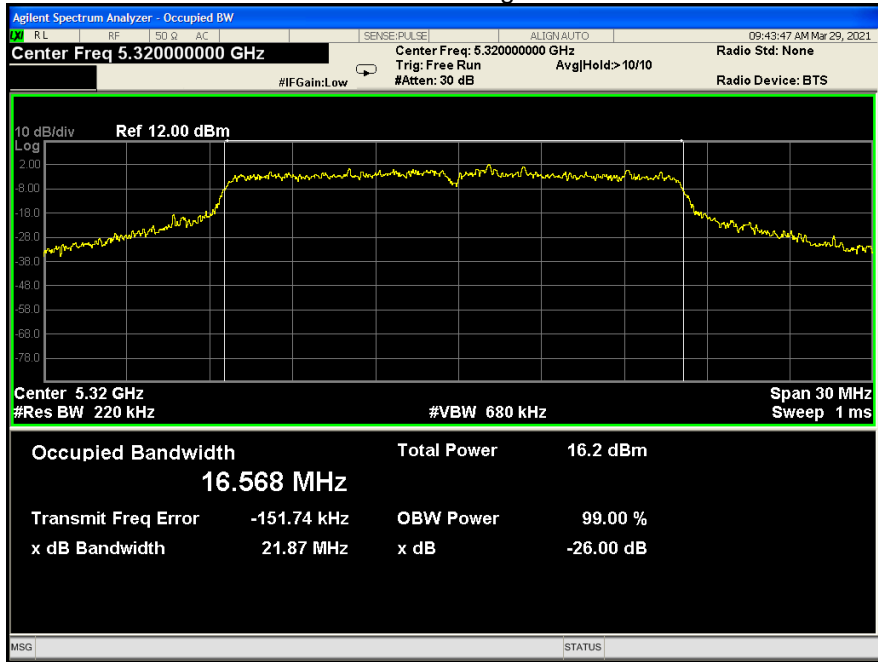


802.11a U-NII-2A Middle channel

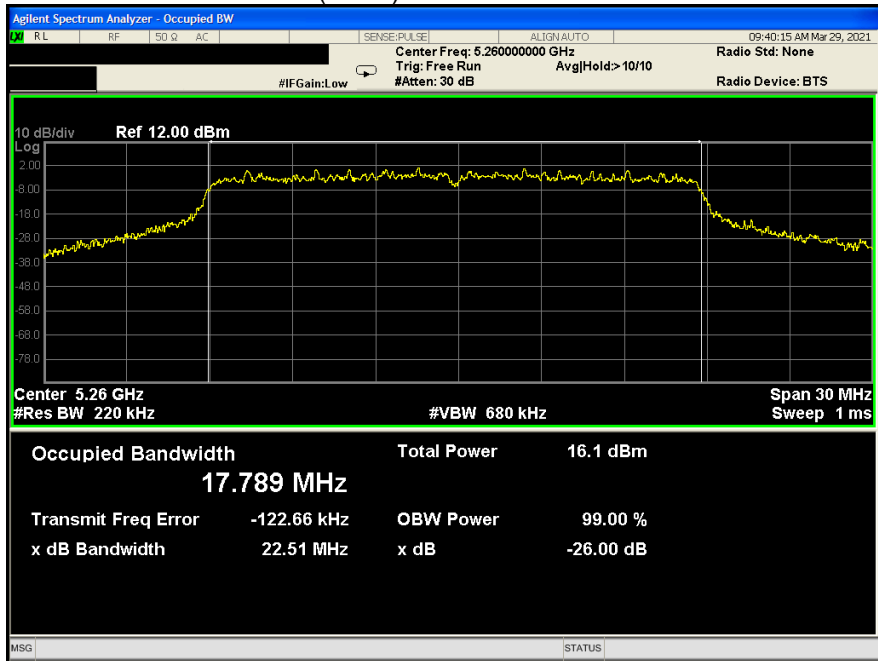




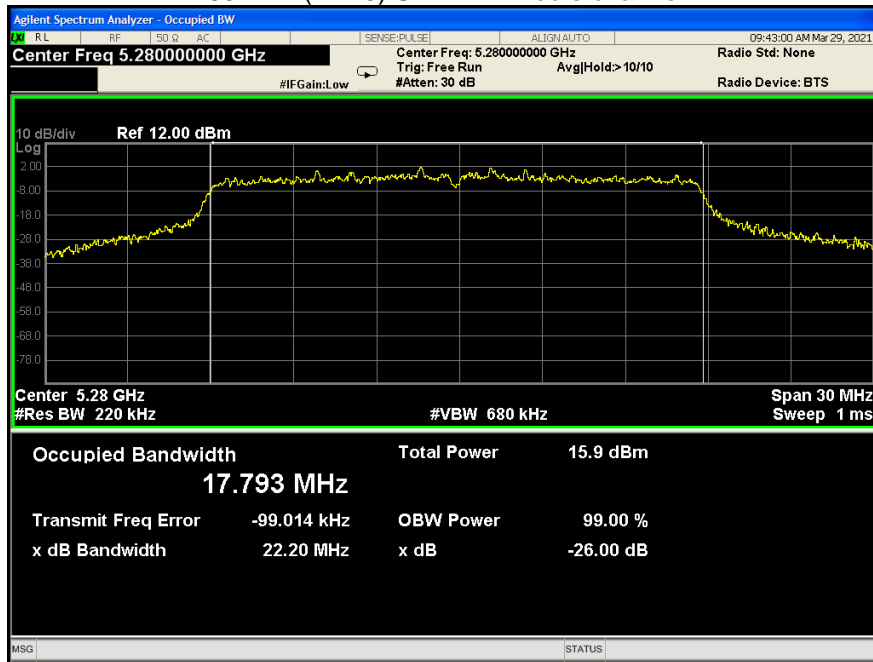
802.11a U-NII-2A High channel



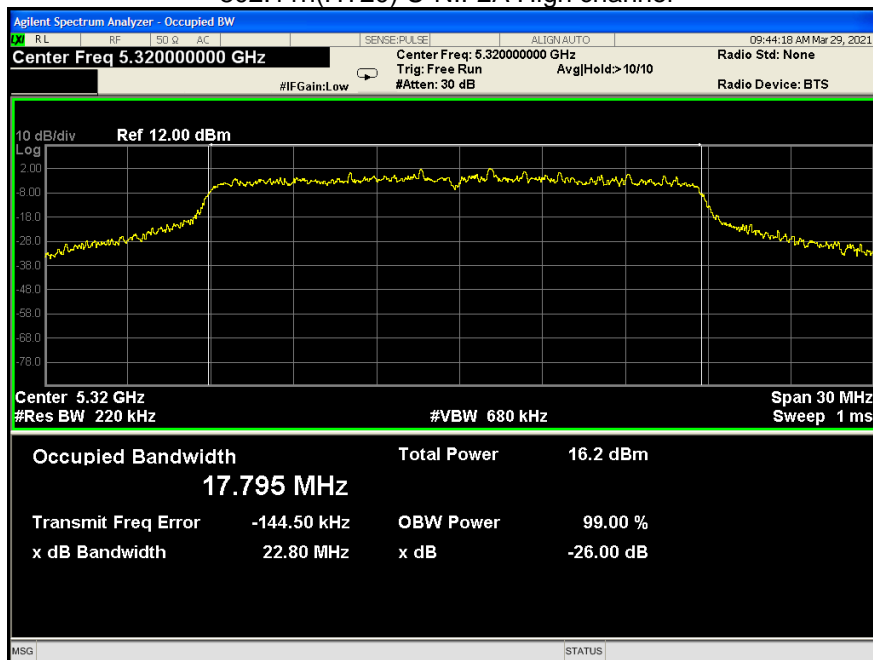
802.11n(HT20) U-NII-2A Low channel



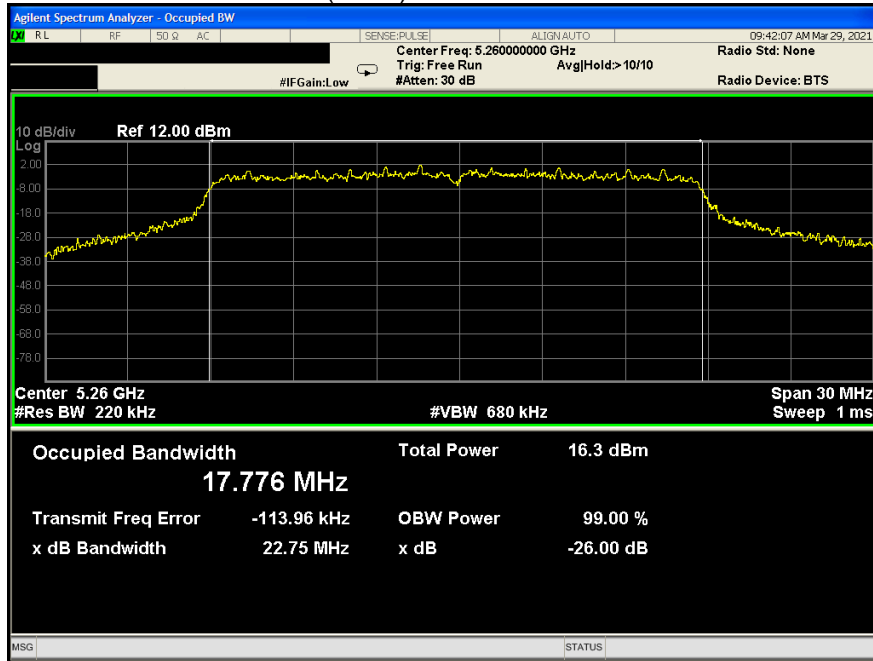
802.11n(HT20) U-NII-2A Middle channel



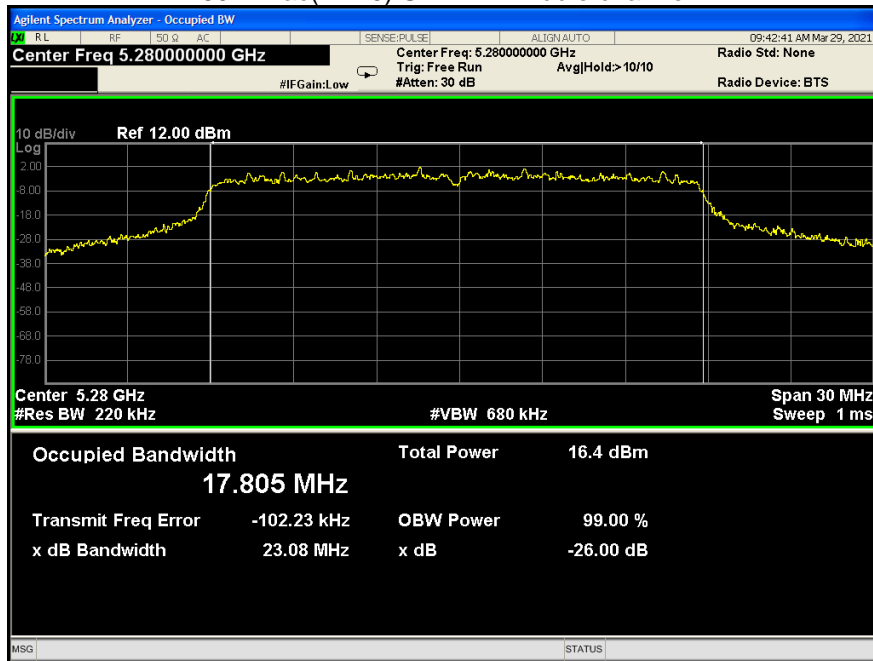
802.11n(HT20) U-NII-2A High channel



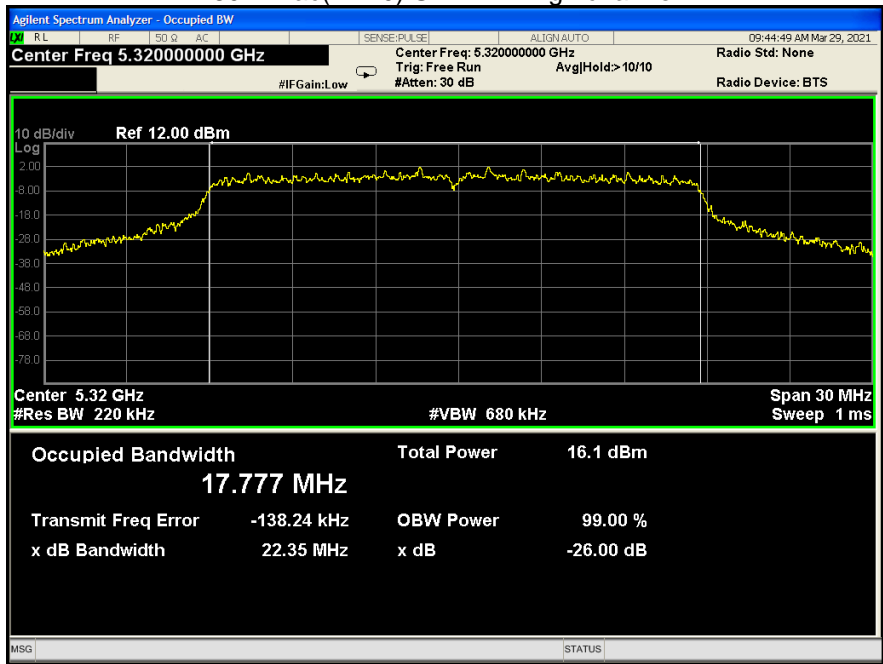
802.11ac(HT20) U-NII-2A Low channel



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



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



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

