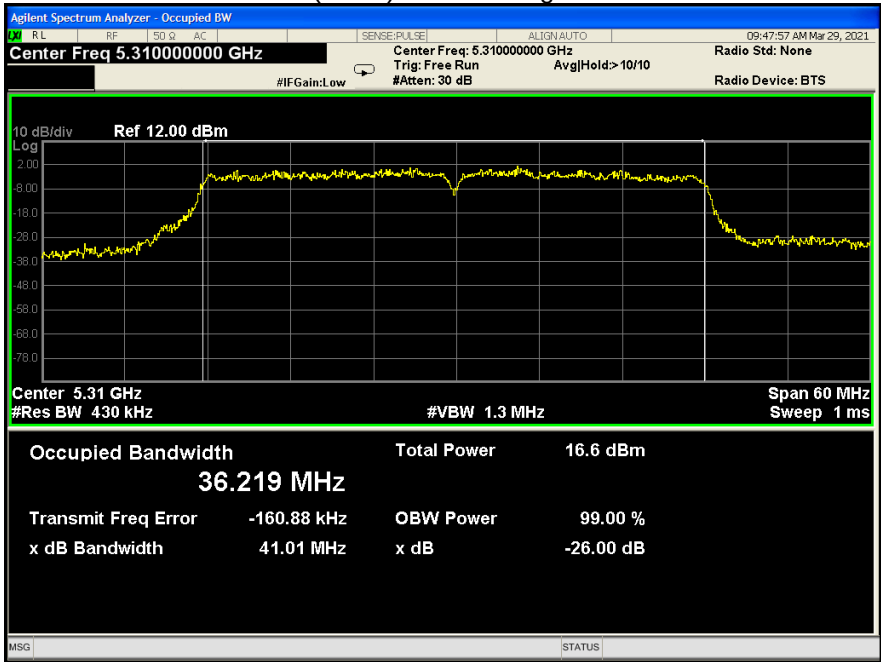
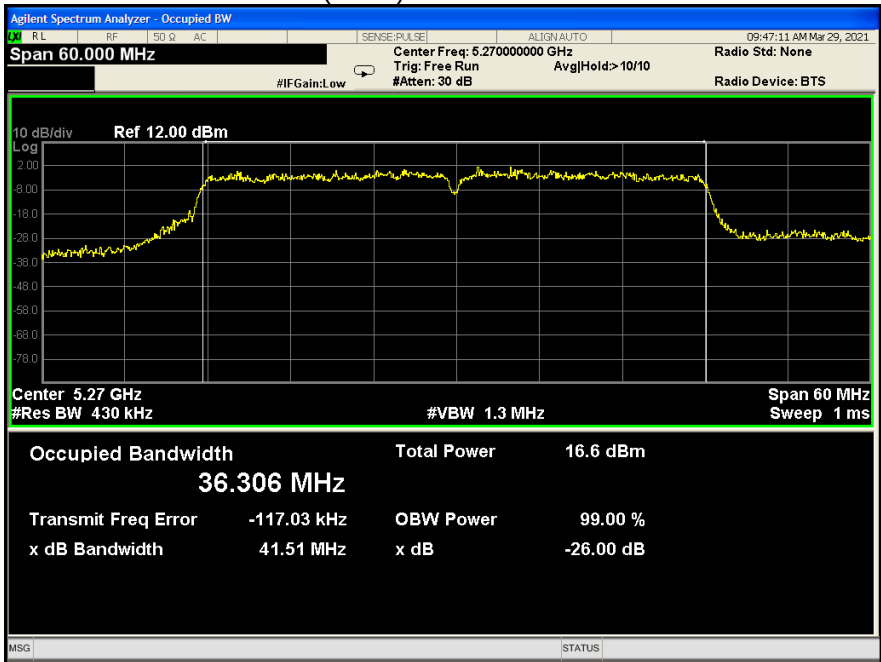


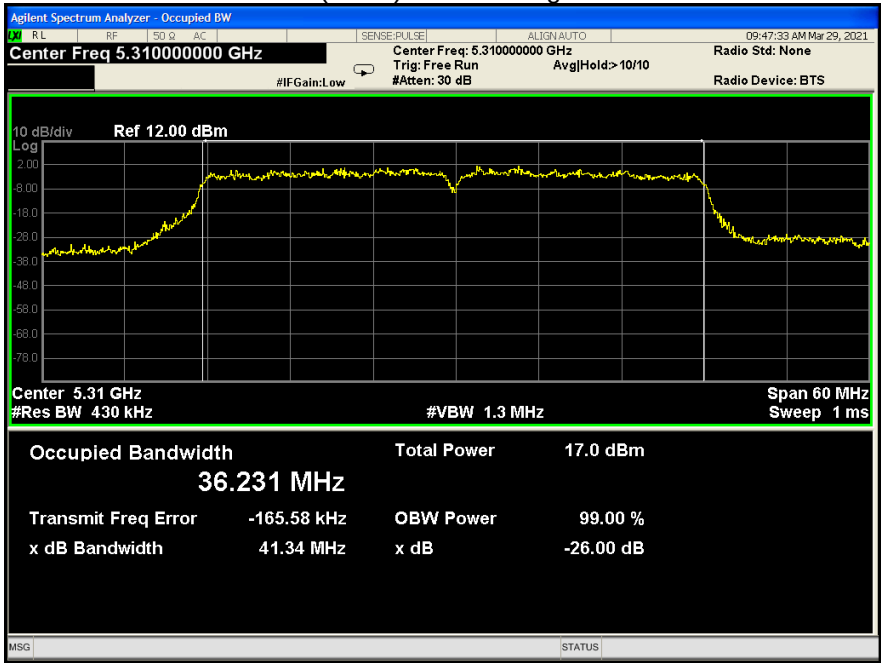
802.11n(HT40) U-NII-2A High channel



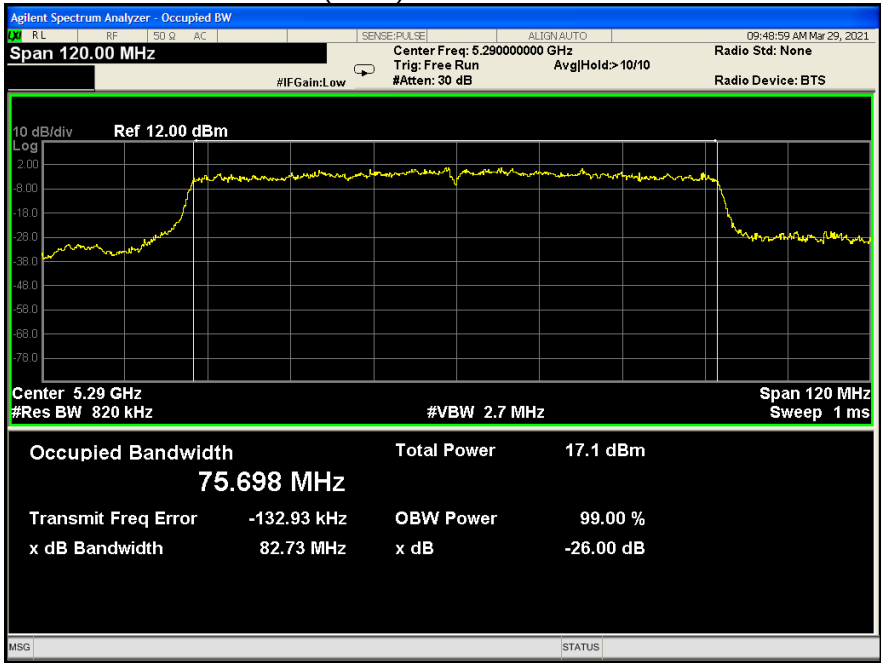
802.11ac(HT40) U-NII-2A Low channel



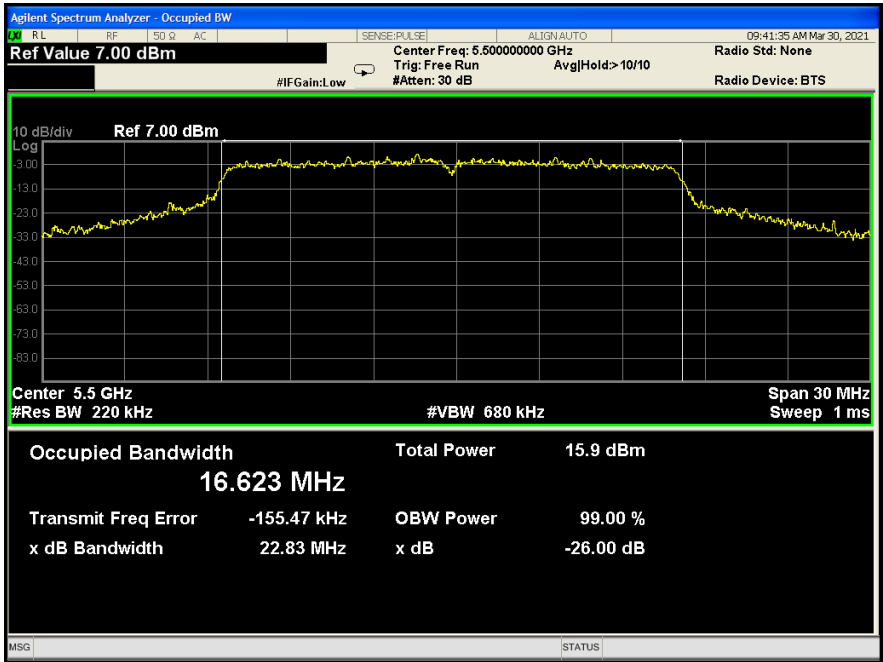
802.11ac(HT40) U-NII-2A High channel



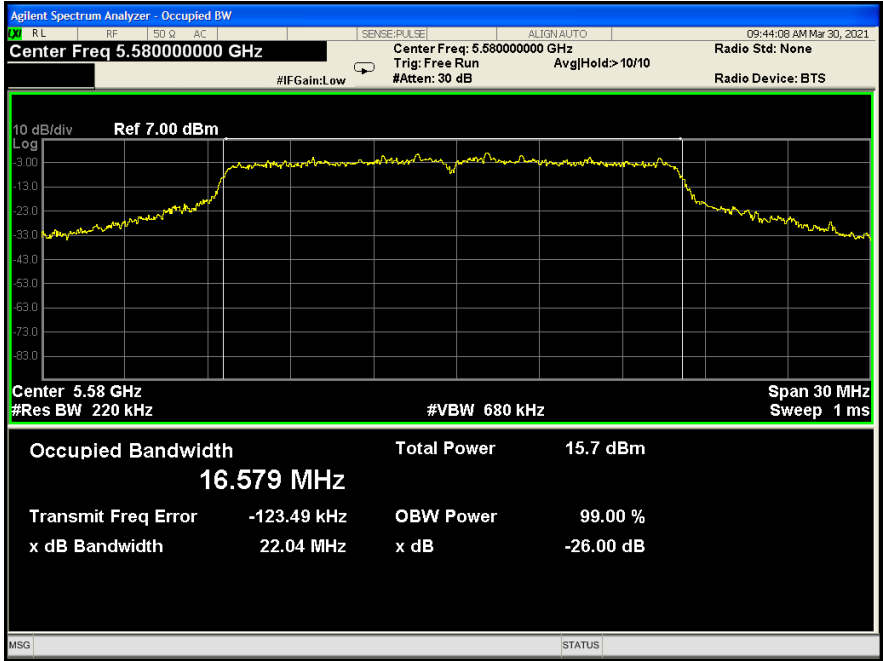
802.11ac(HT80) U-NII-2A Low channel



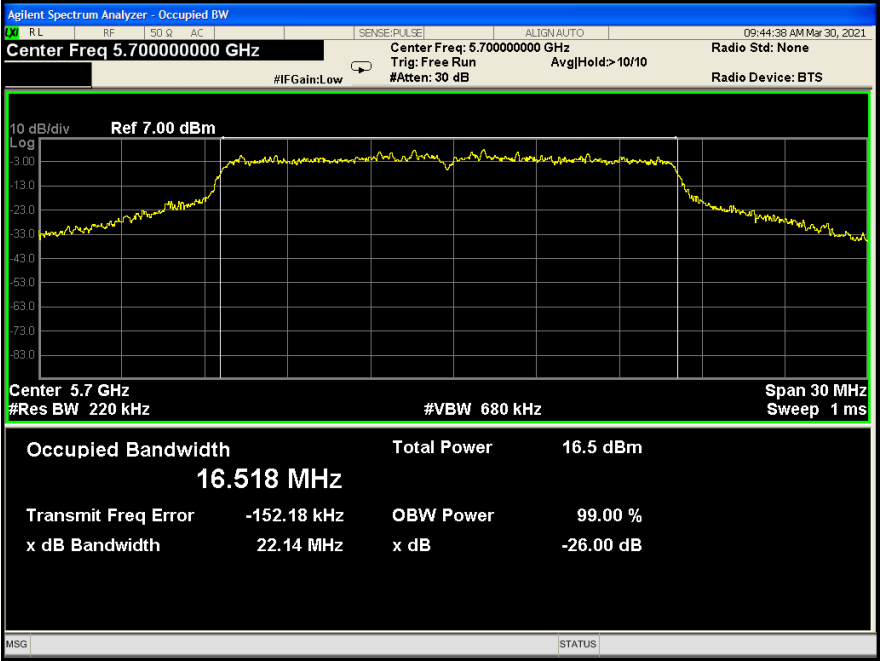
802.11a U-NII-2C Low channel



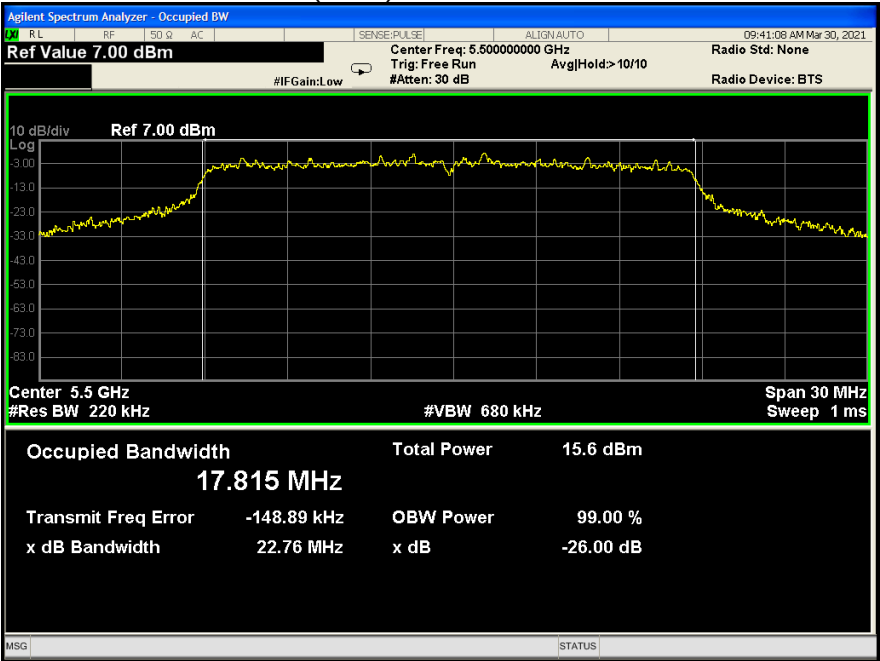
802.11a U-NII-2C Middle channel



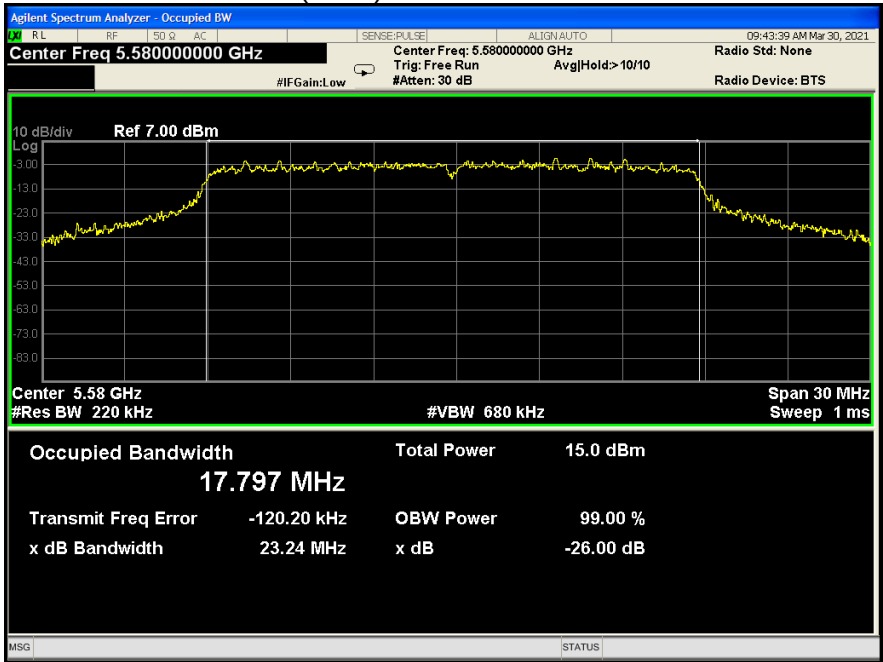
802.11a U-NII-2C High channel



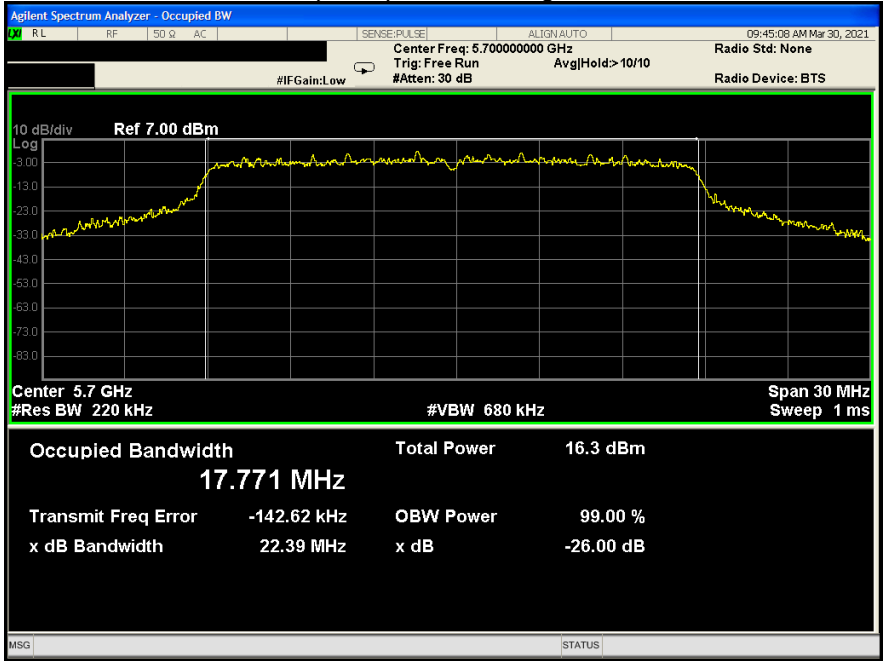
802.11n(HT20) U-NII-2C Low channel



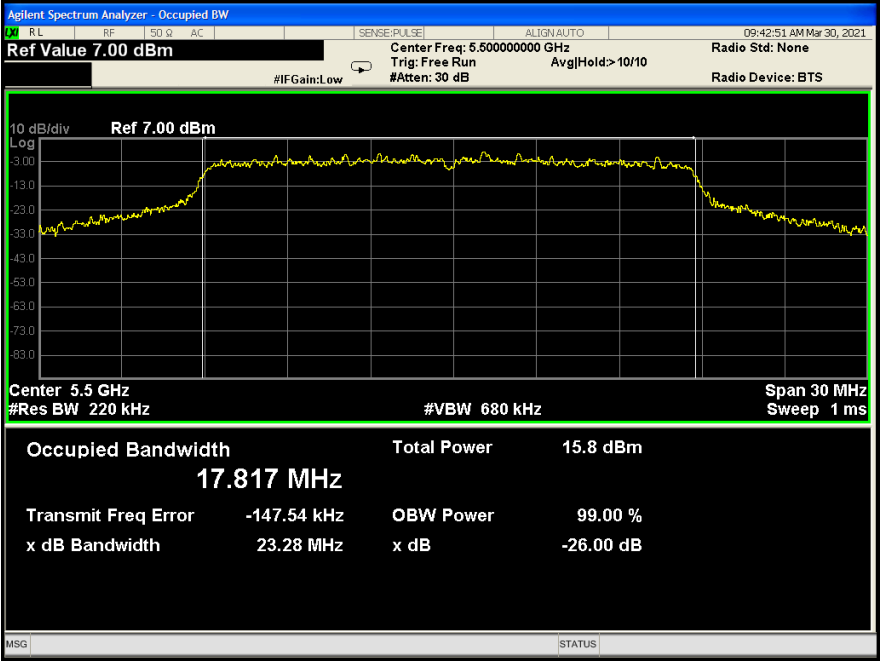
802.11n(HT20) U-NII-2C Middle channel



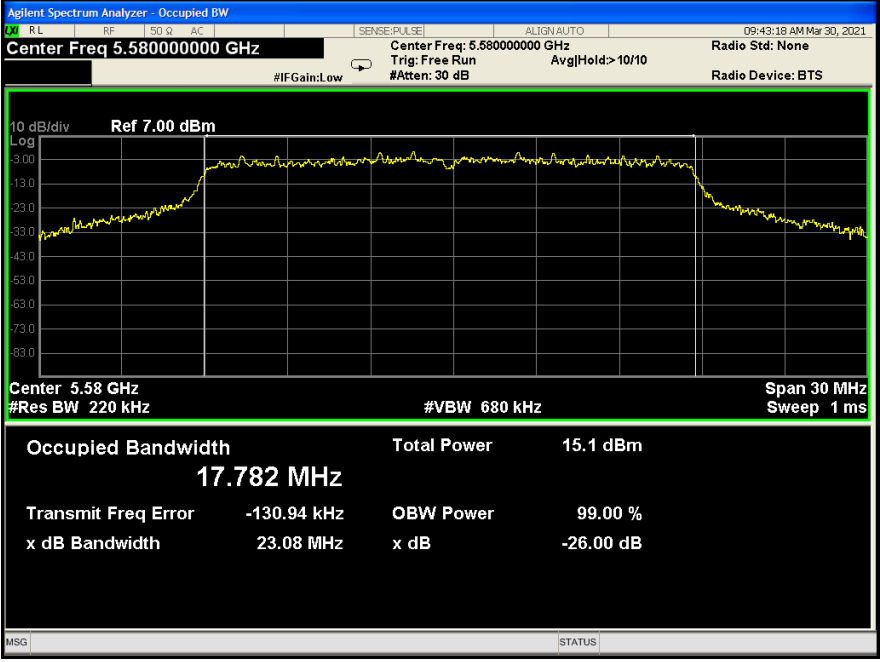
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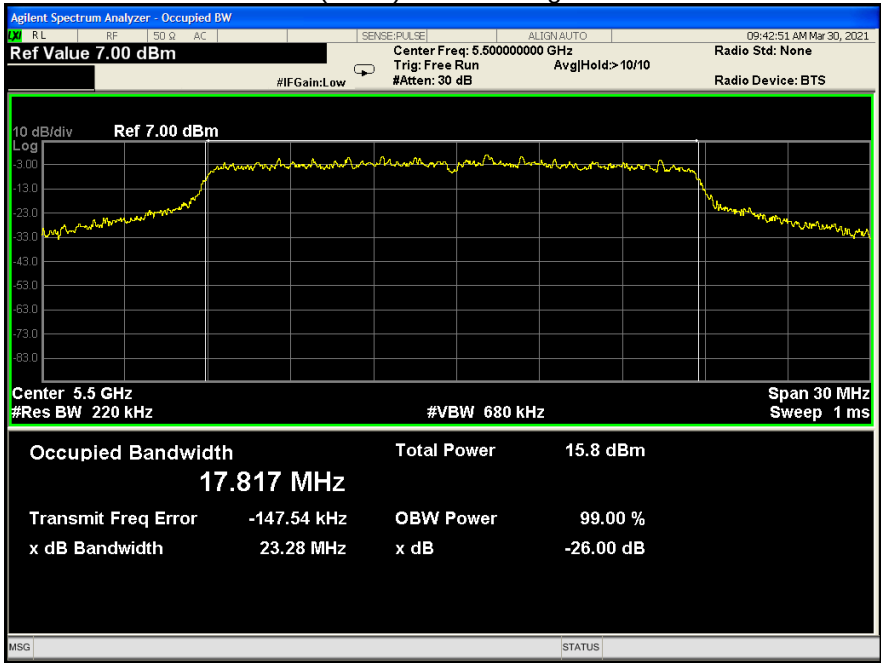
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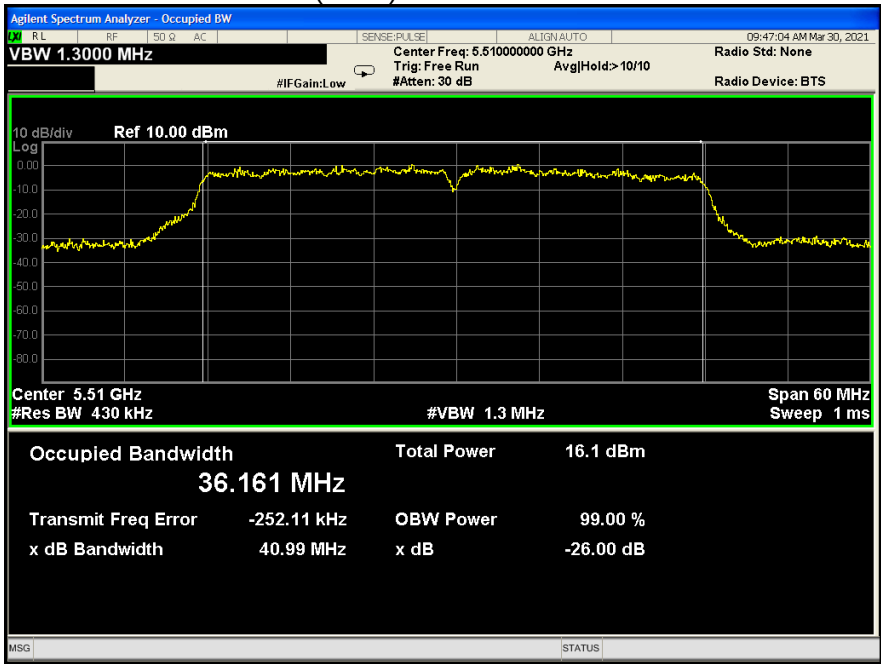
802.11ac(HT20) U-NII-2C Middle channel



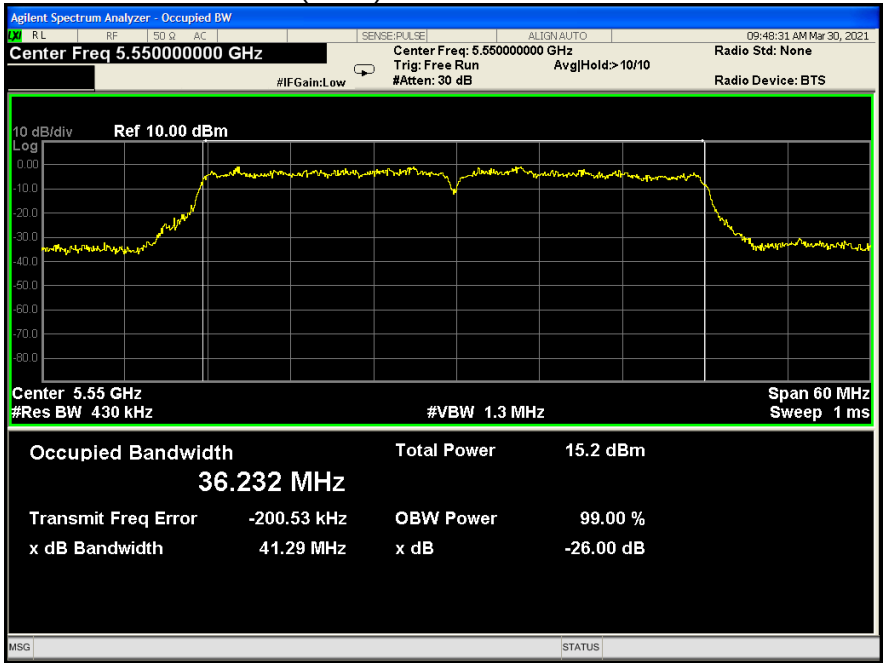
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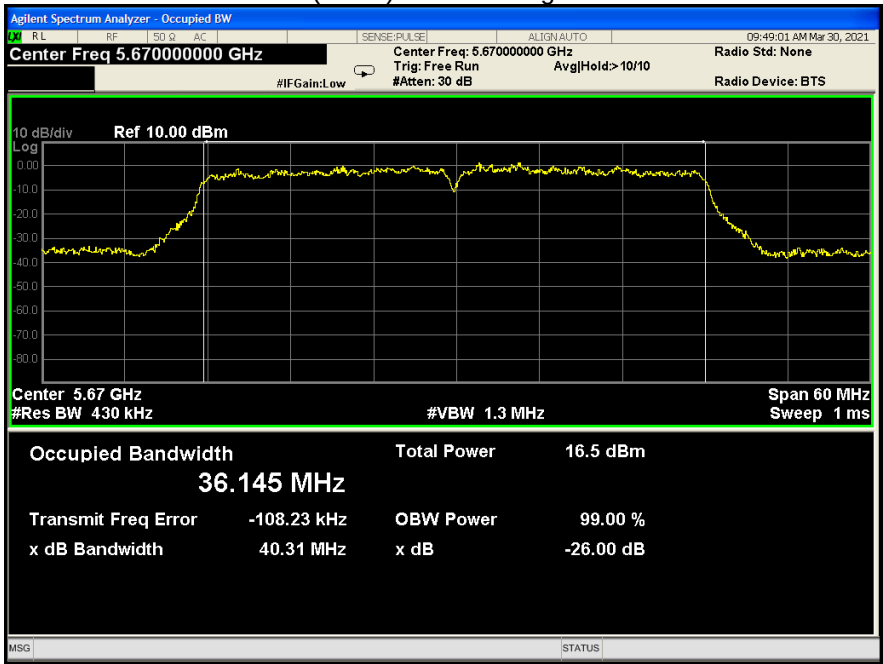
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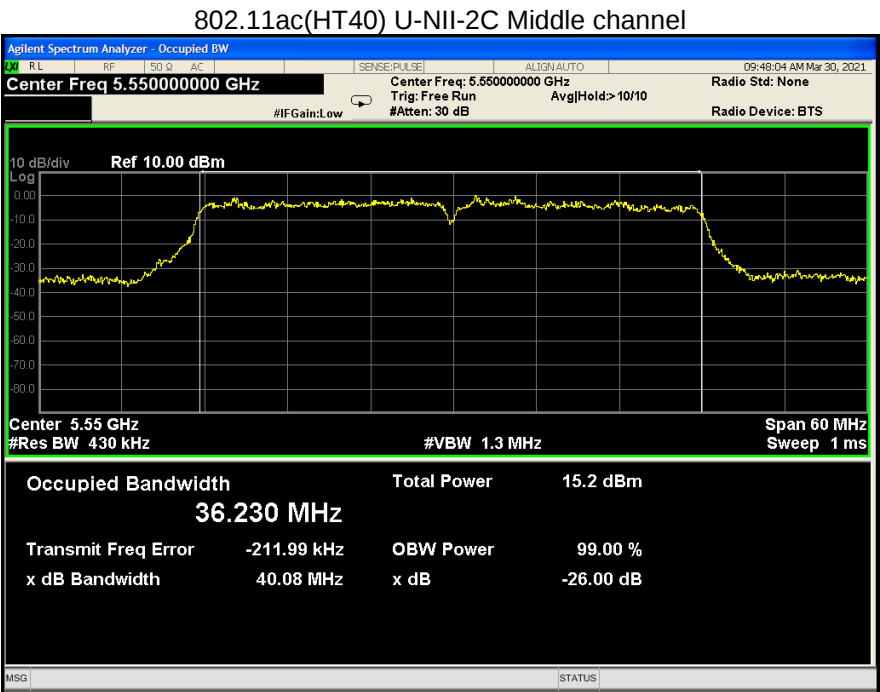
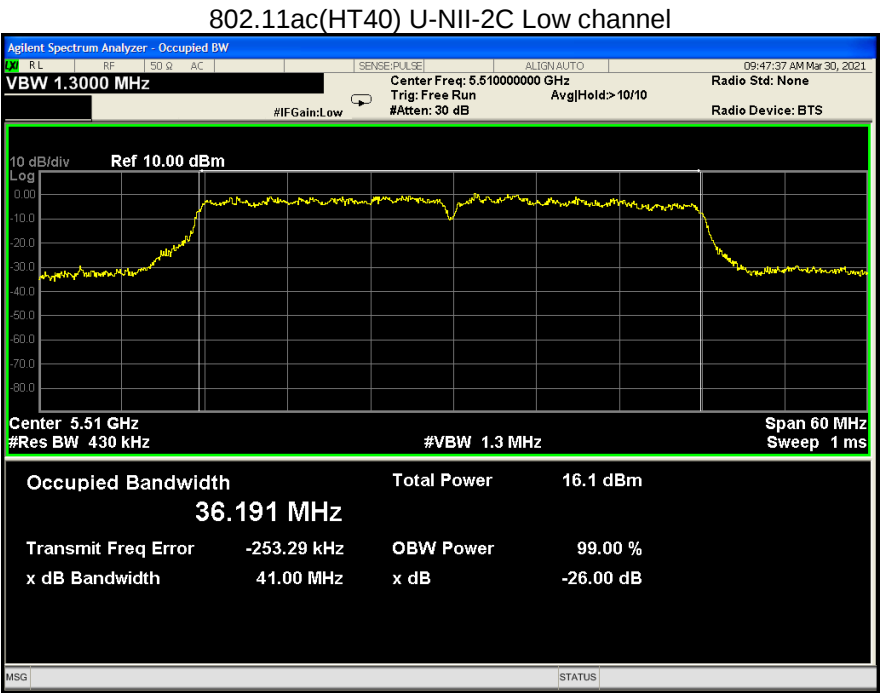


802.11n(HT40) U-NII-2C Middle channel

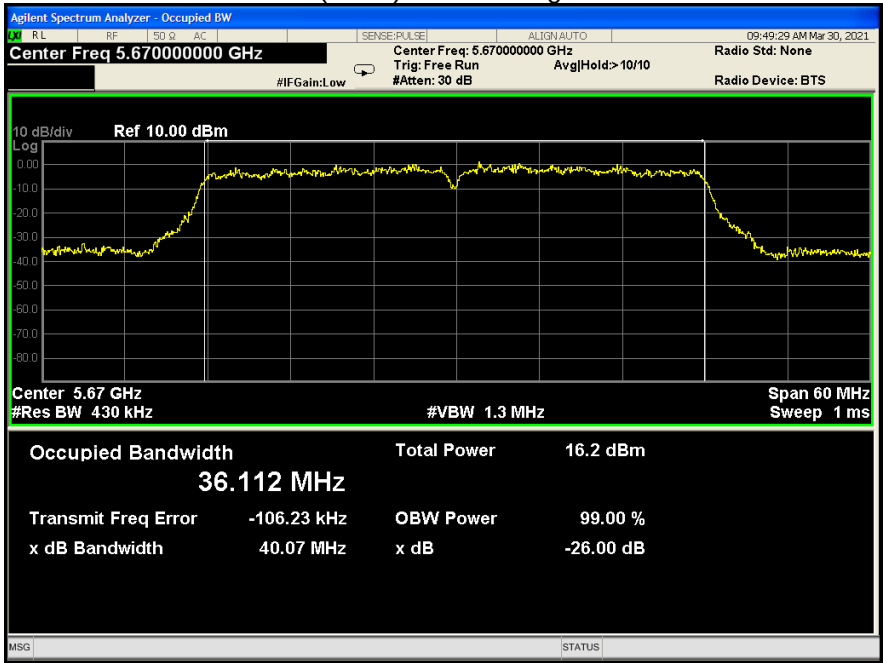


802.11n(HT40) U-NII-2C High channel

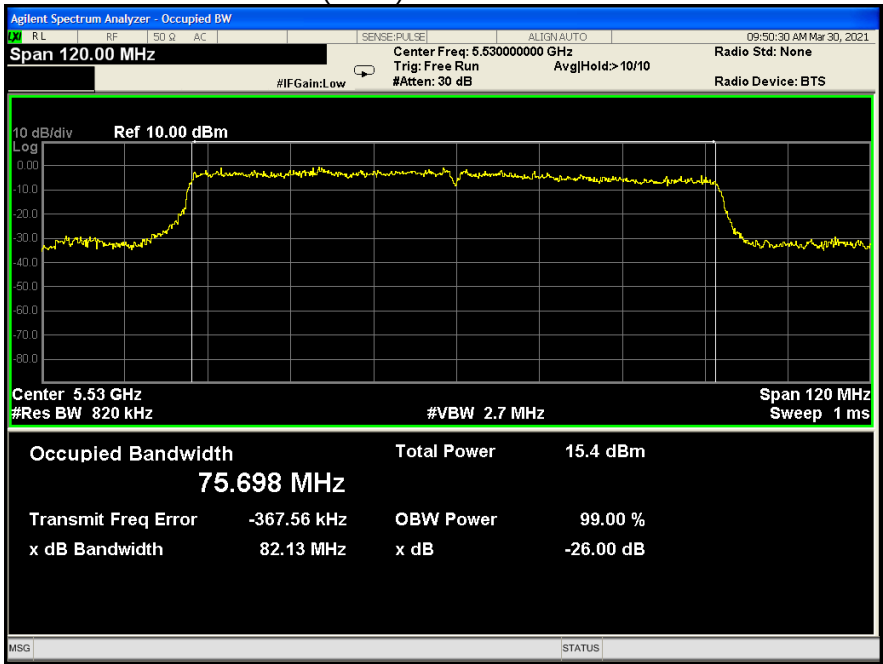




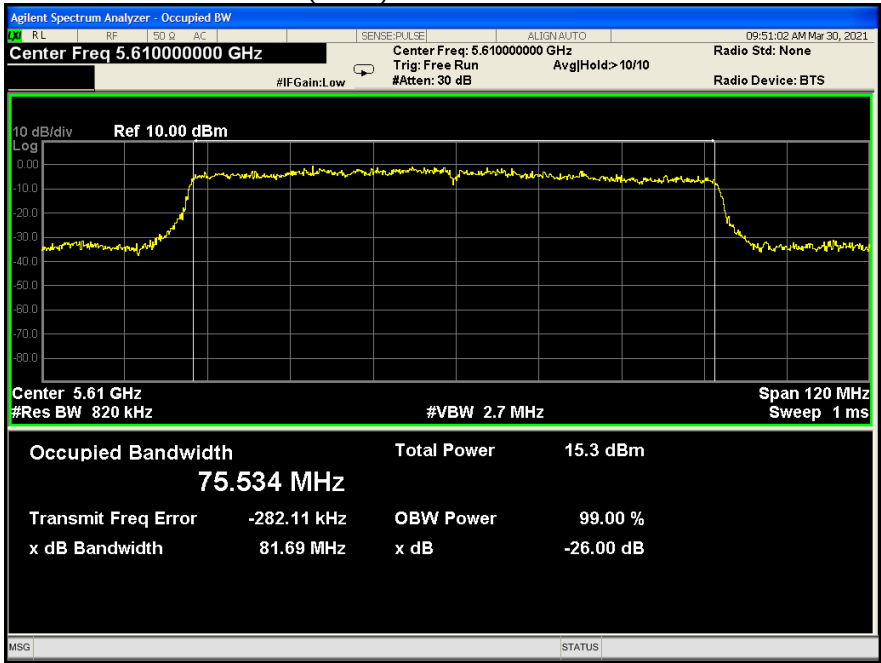
802.11ac(HT40) U-NII-2C High channel



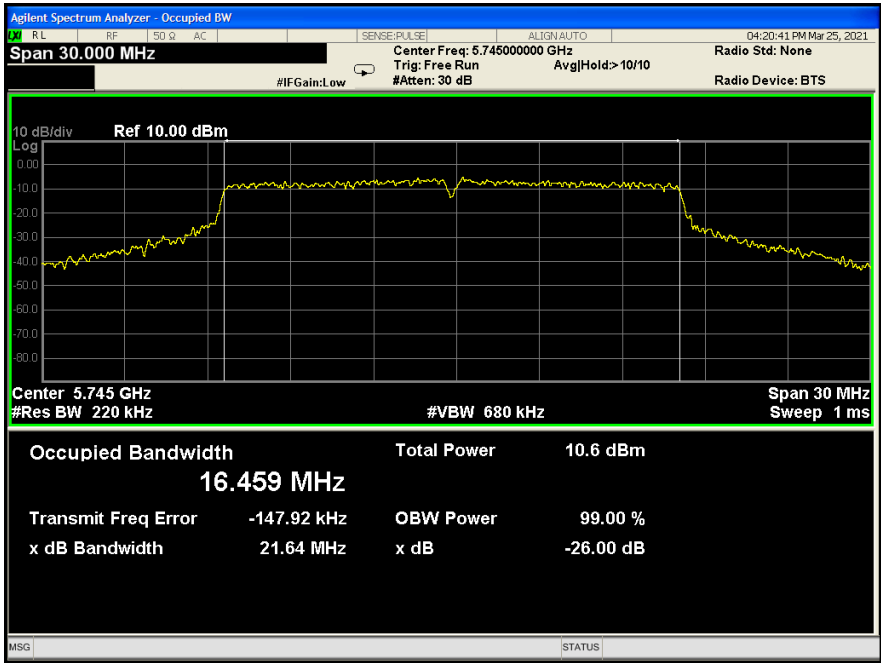
802.11ac(HT80) U-NII-2C Low channel



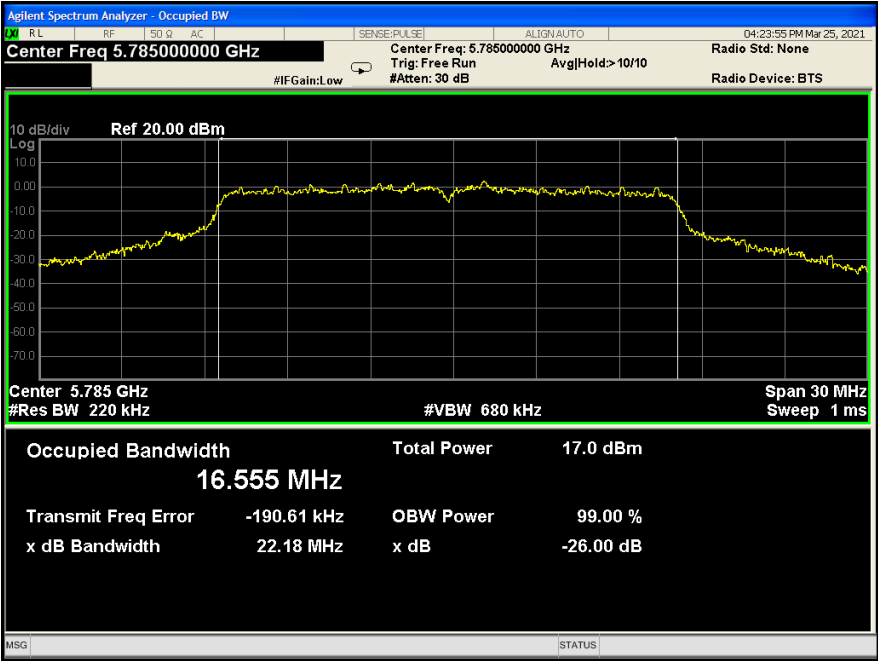
802.11ac(HT80) U-NII-2C Middle channel



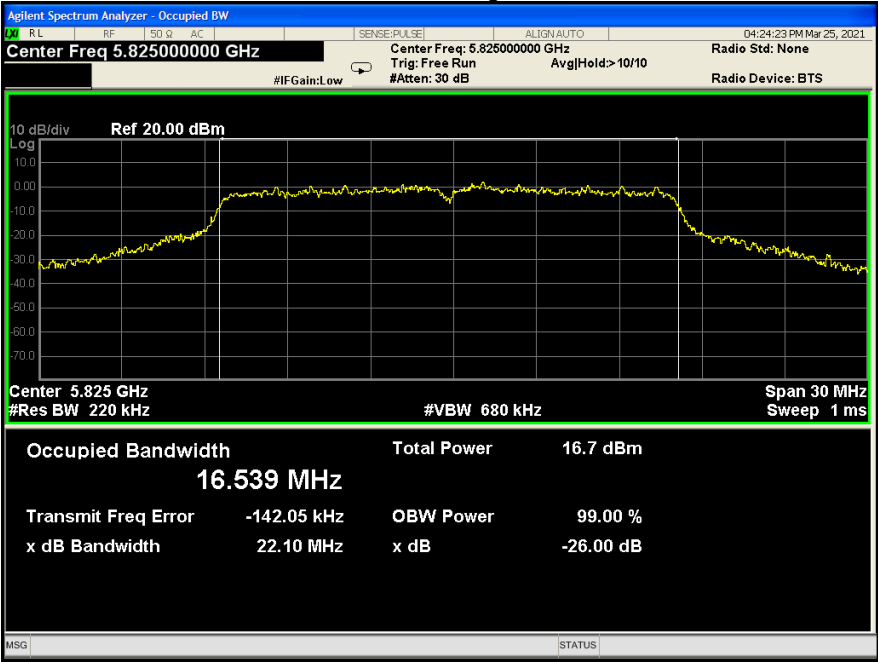
802.11a U-NII-3 Low channel



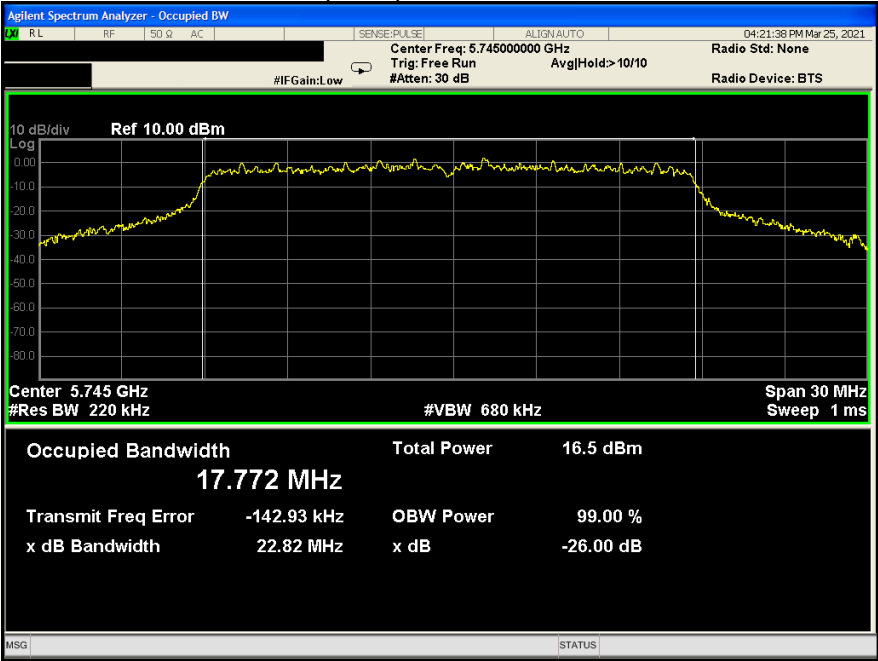
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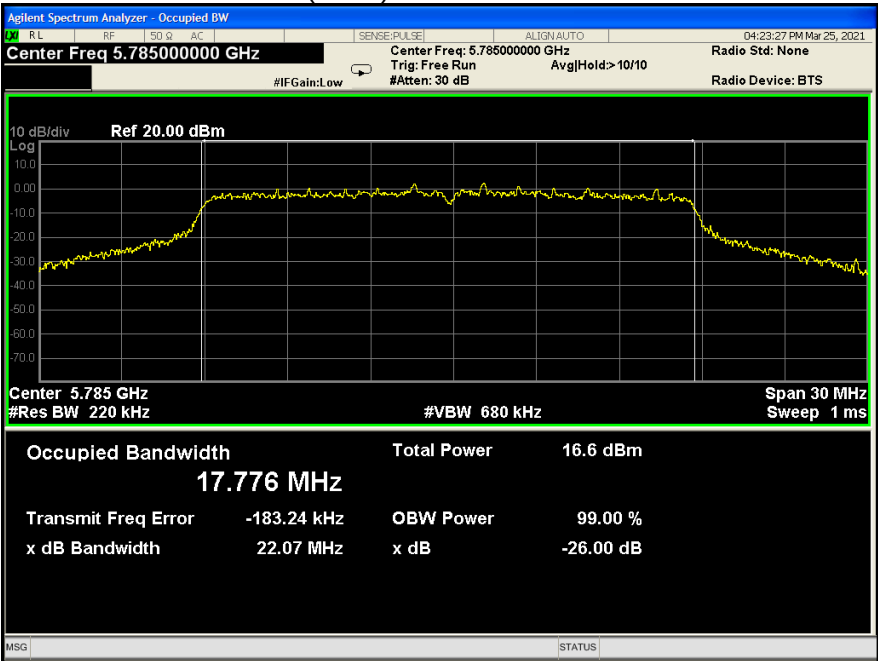
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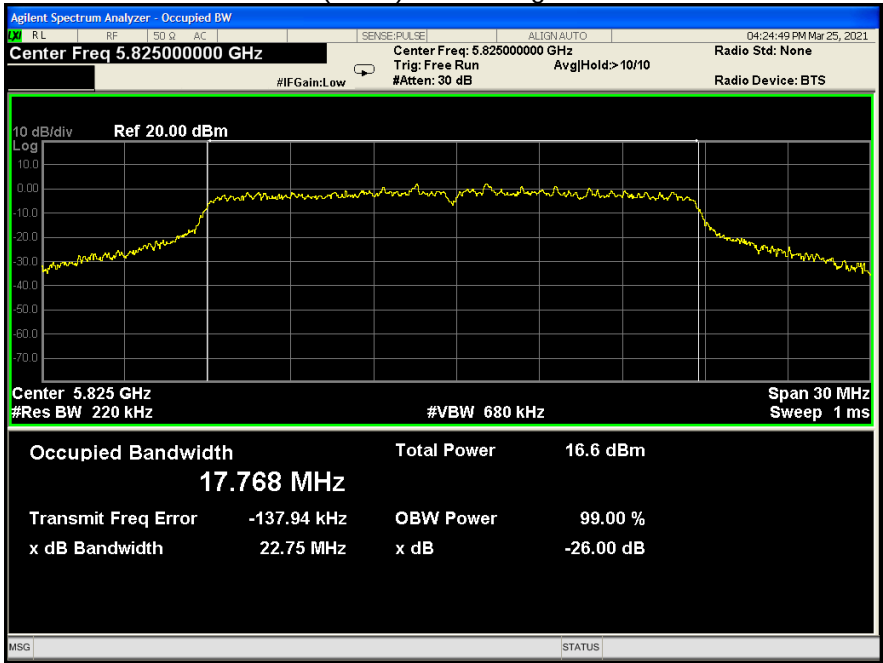
802.11n(HT20) U-NII-3 Low channel



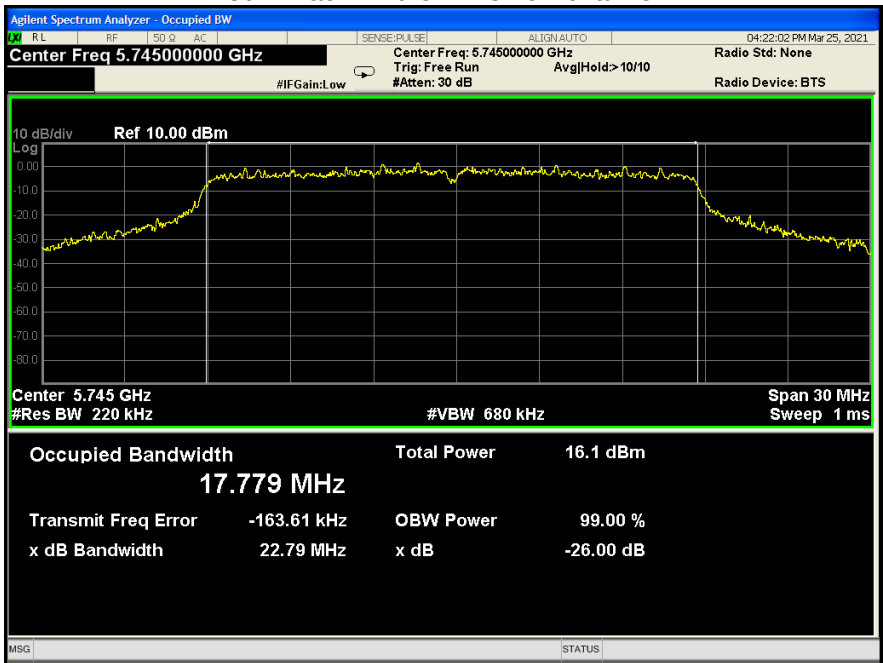
802.11n(HT20) U-NII-3 Middle channel



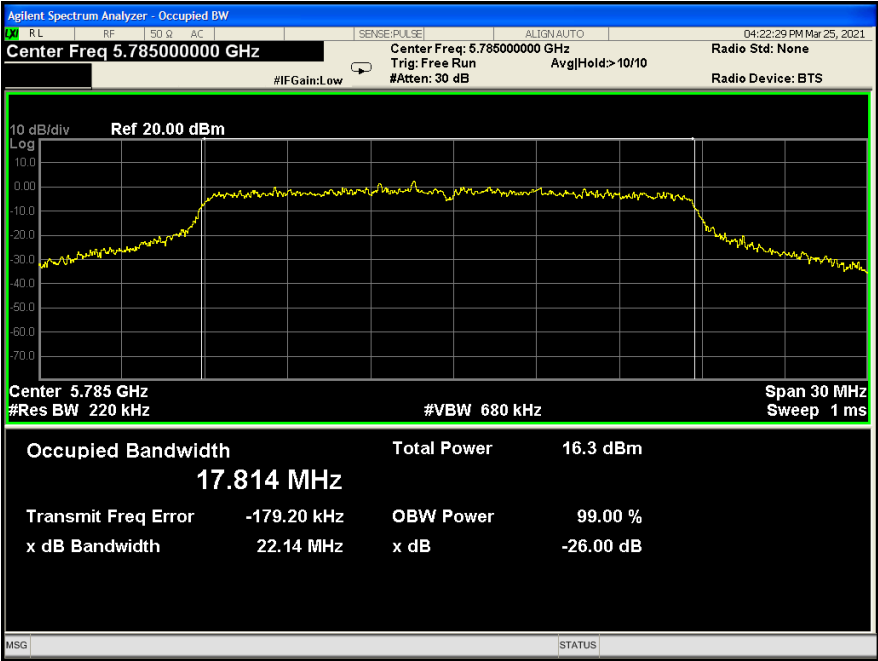
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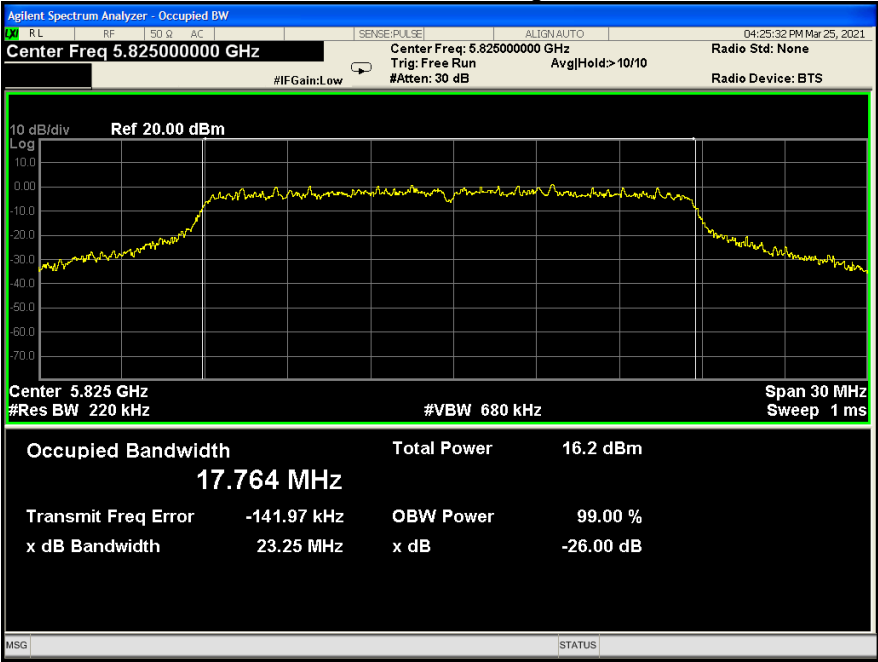
802.11ac HT20 U-NII-3 Low channel



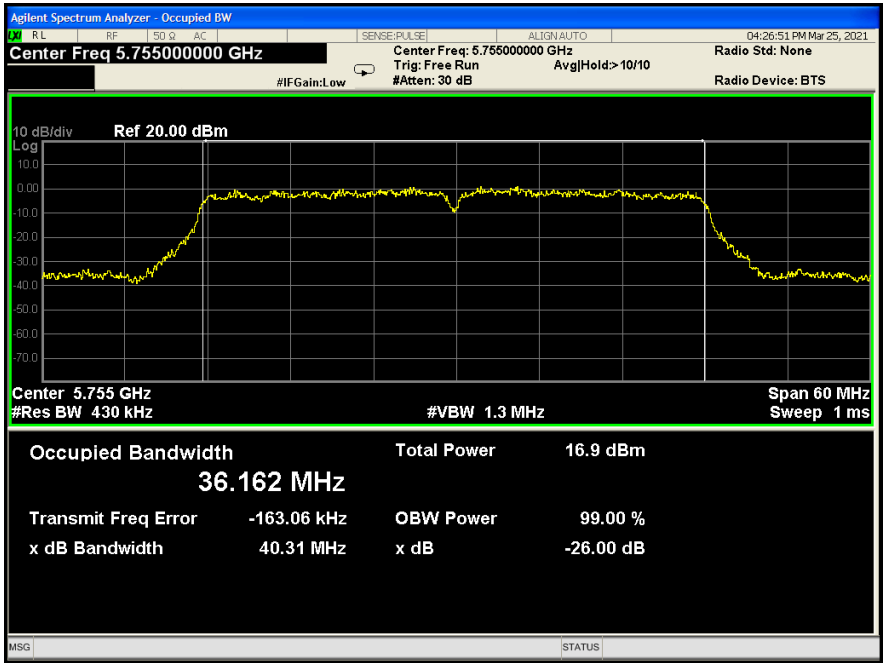
802.11ac HT20 U-NII-3 Middle channel



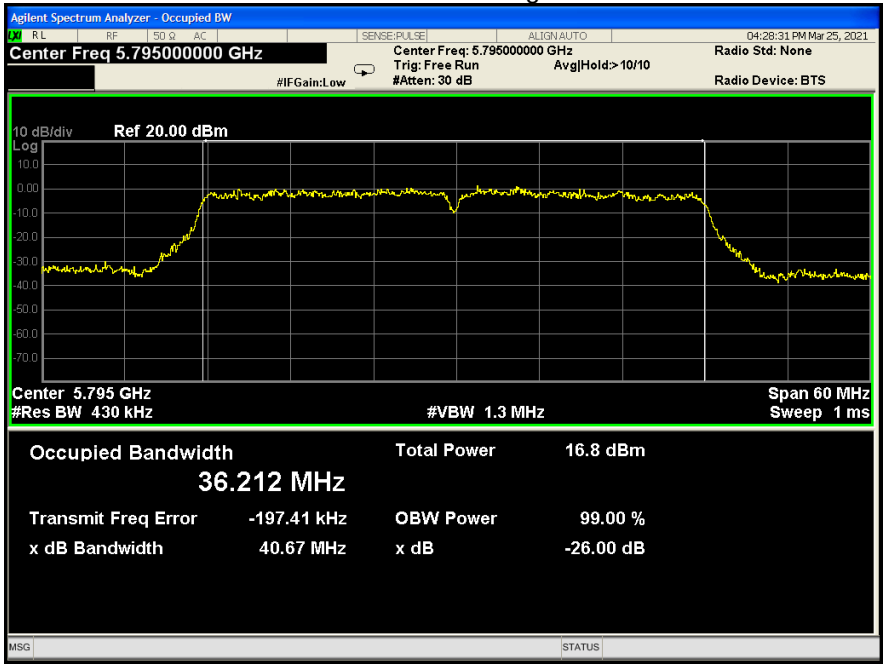
802.11ac HT20 U-NII-3 High channel



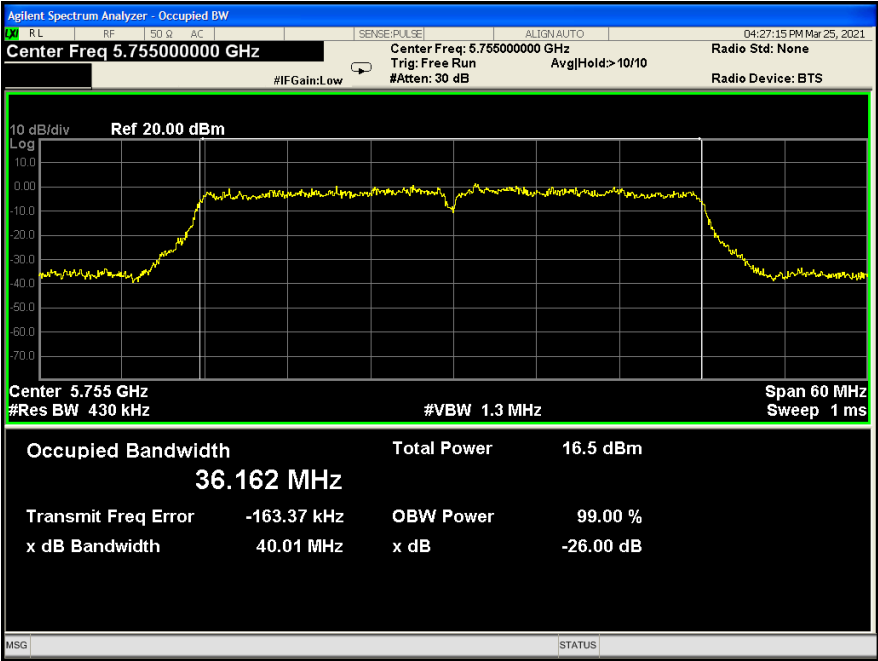
802.11n HT40 U-NII-3 Low channel



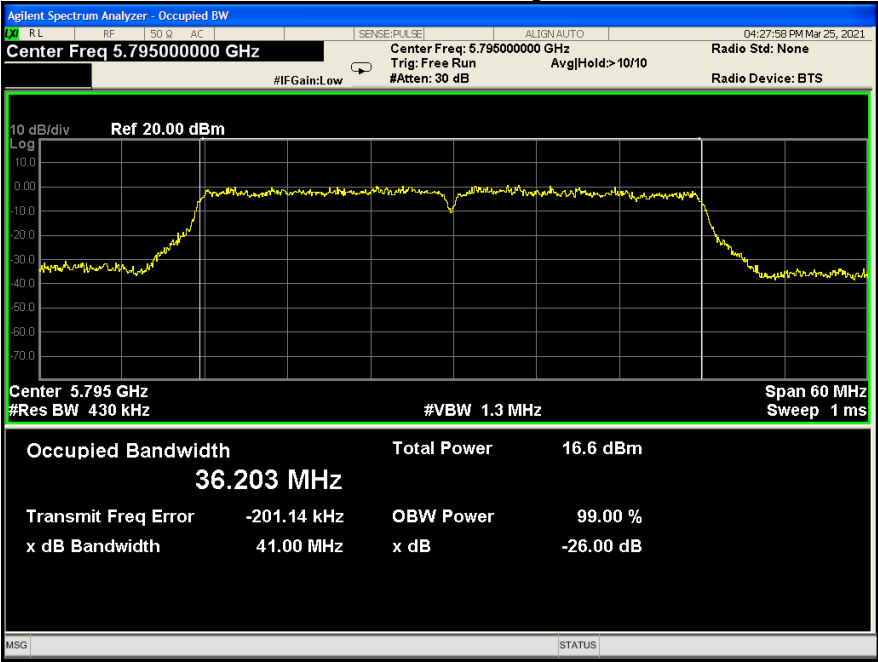
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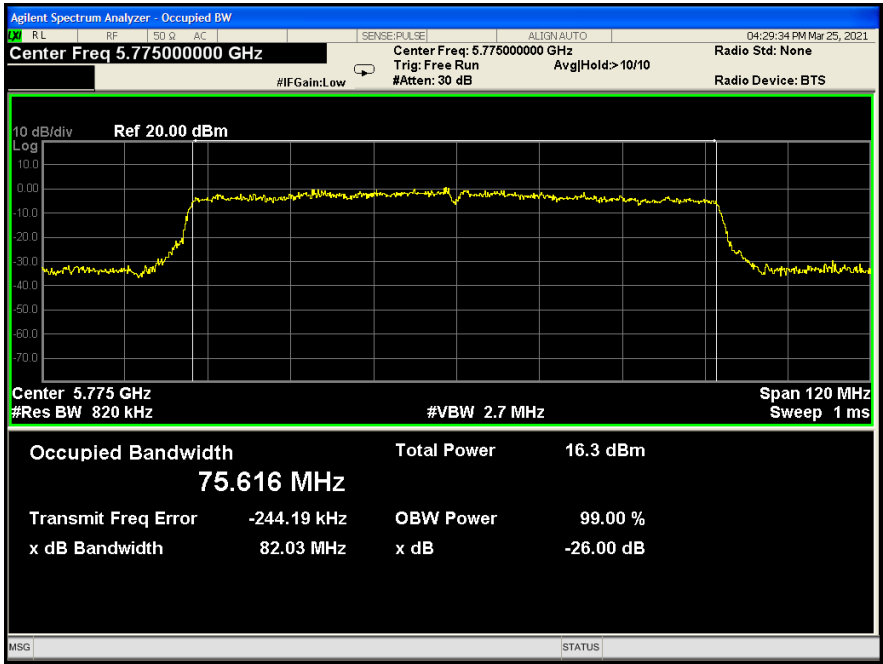
802.11ac HT40 U-NII-3 Low channel



802.11ac HT40 U-NII-3 High channel

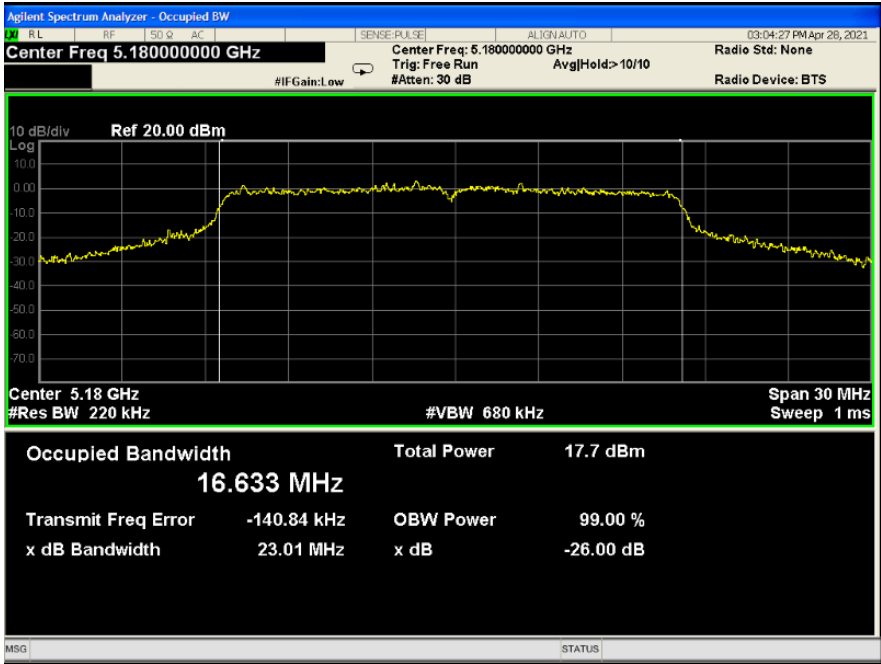


802.11ac HT80 U-NII-3 Low channel

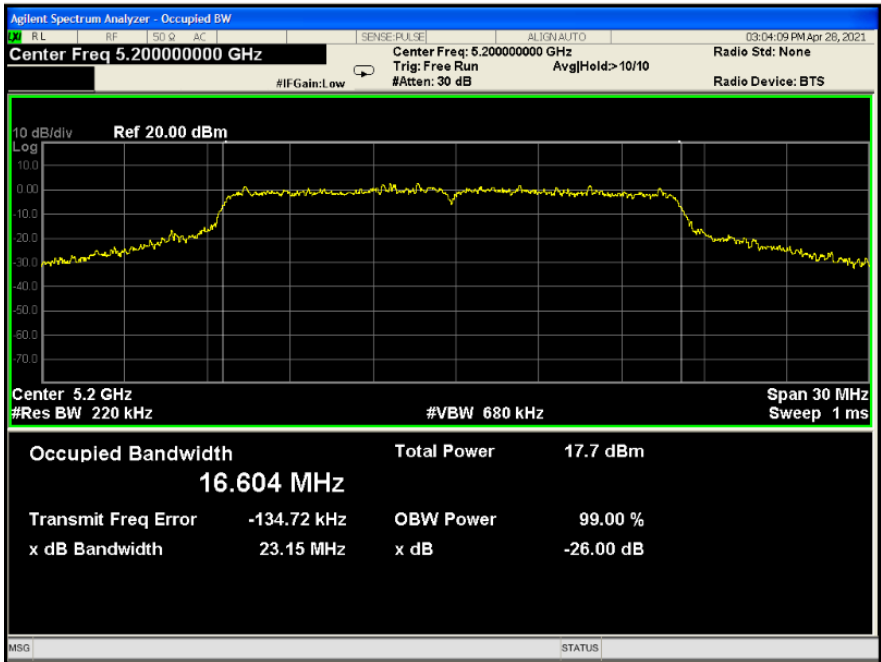


Antenna 1

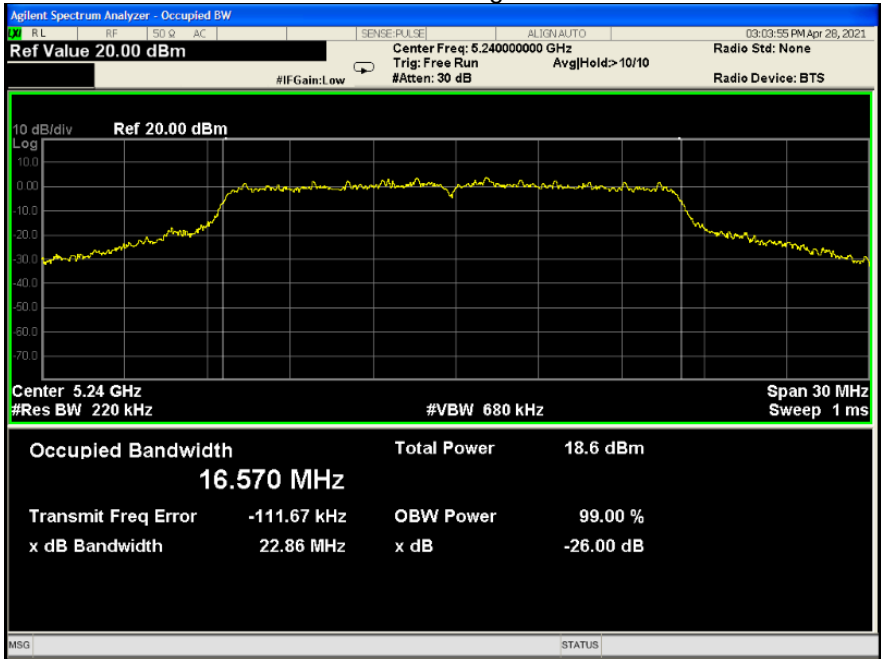
802.11a U-NII-1 Low channel



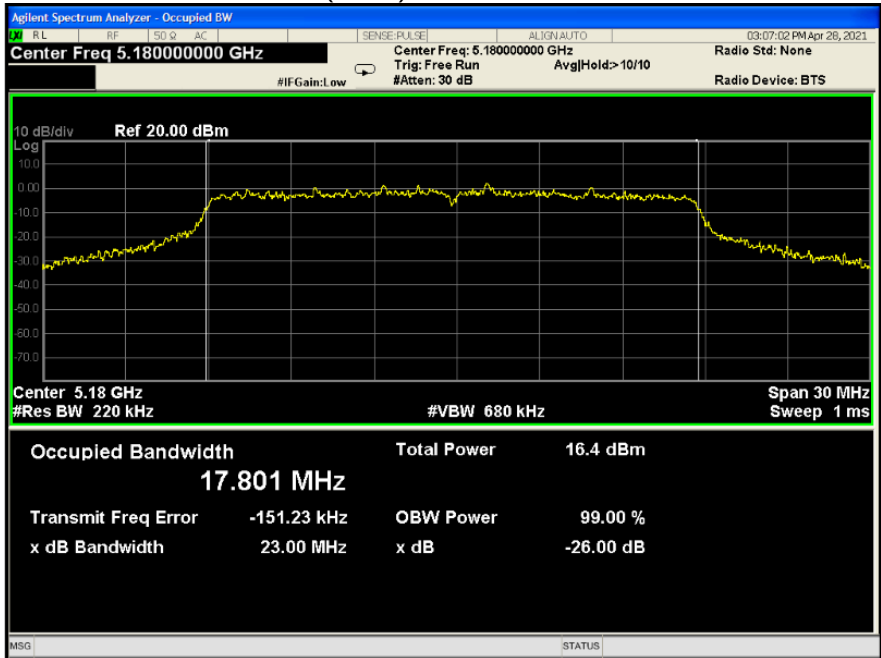
802.11a U-NII-1 Middle channel



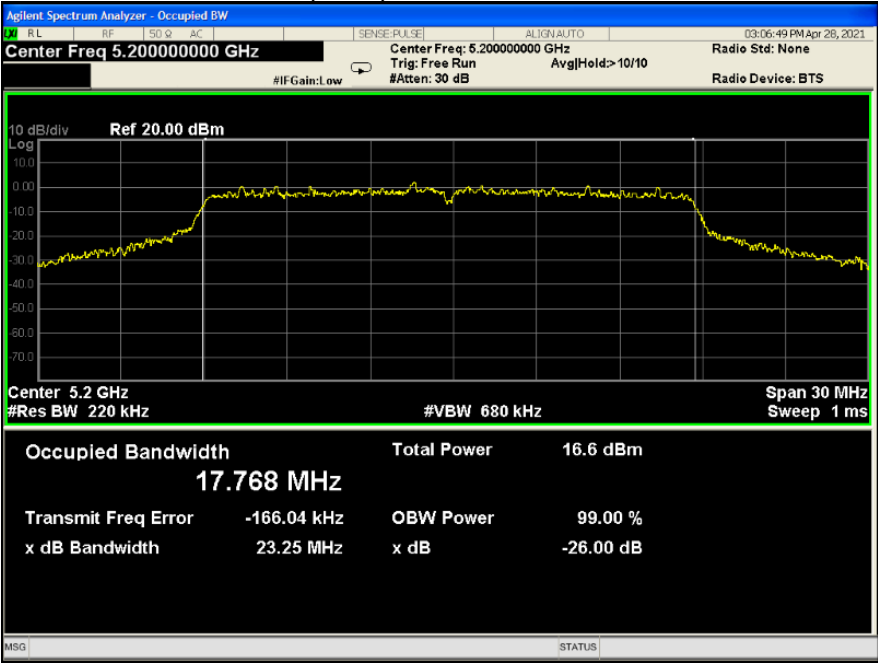
802.11a U-NII-1 High channel



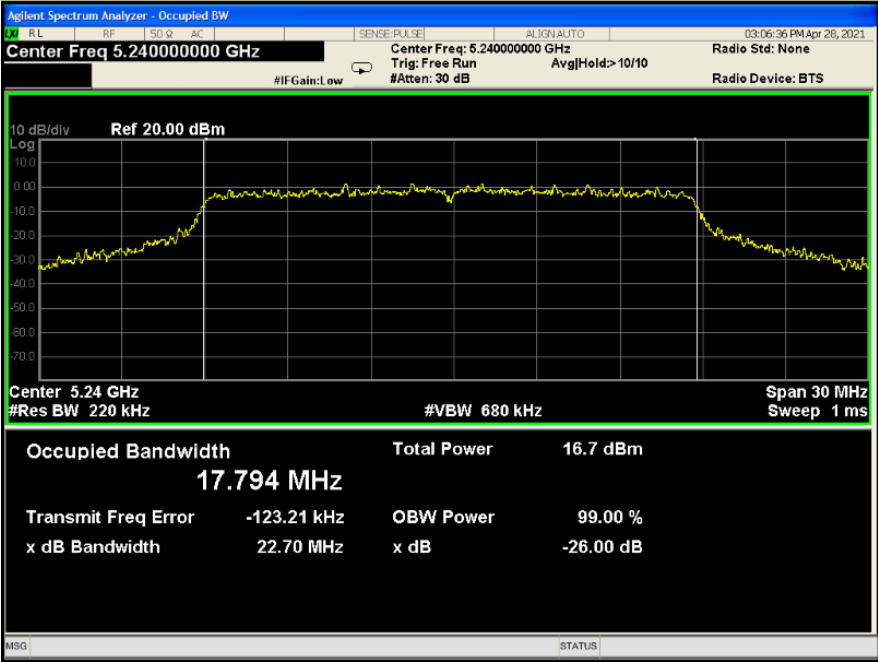
802.11n(HT20) U-NII-1 Low channel



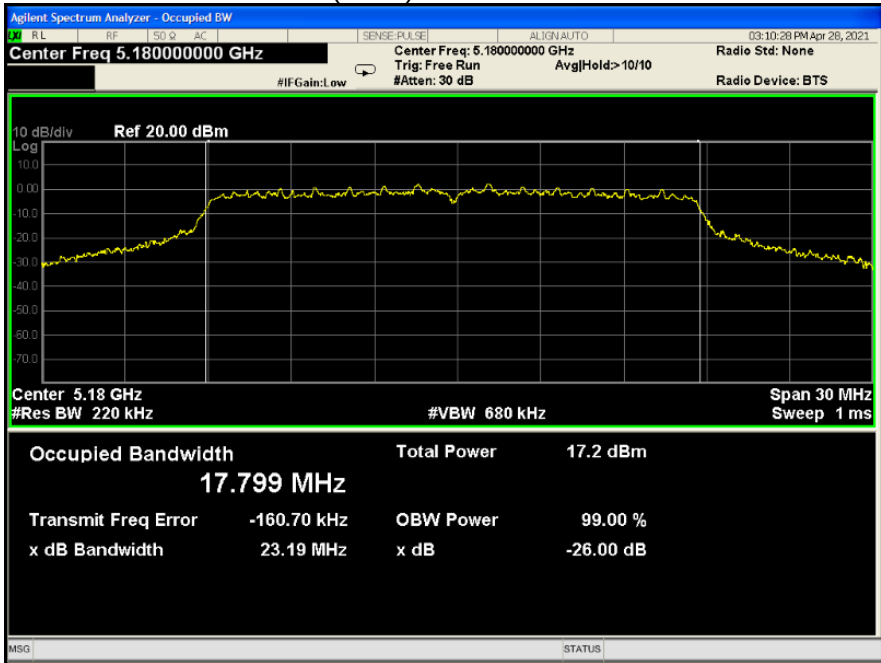
802.11n(HT20) U-NII-1 Middle channel



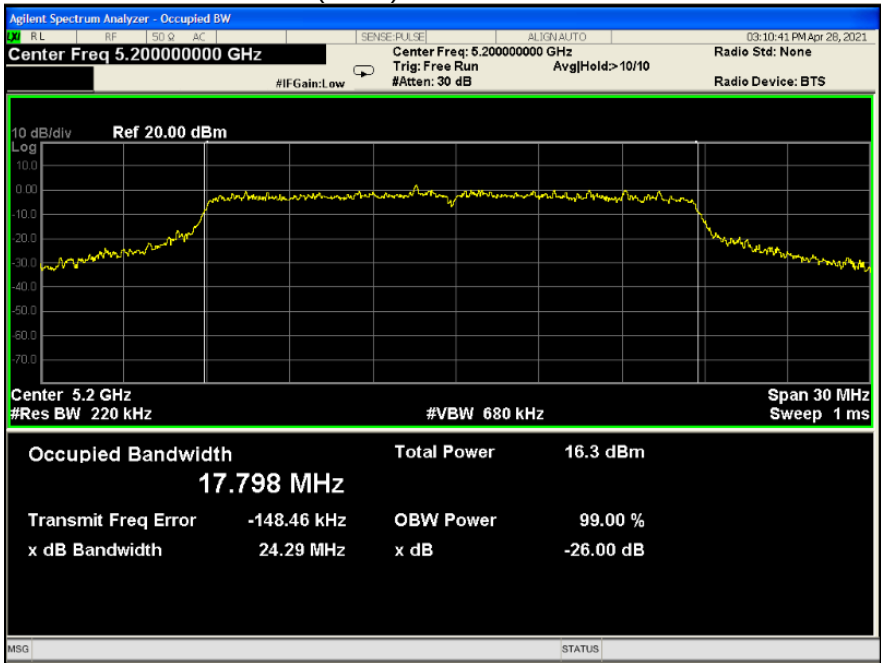
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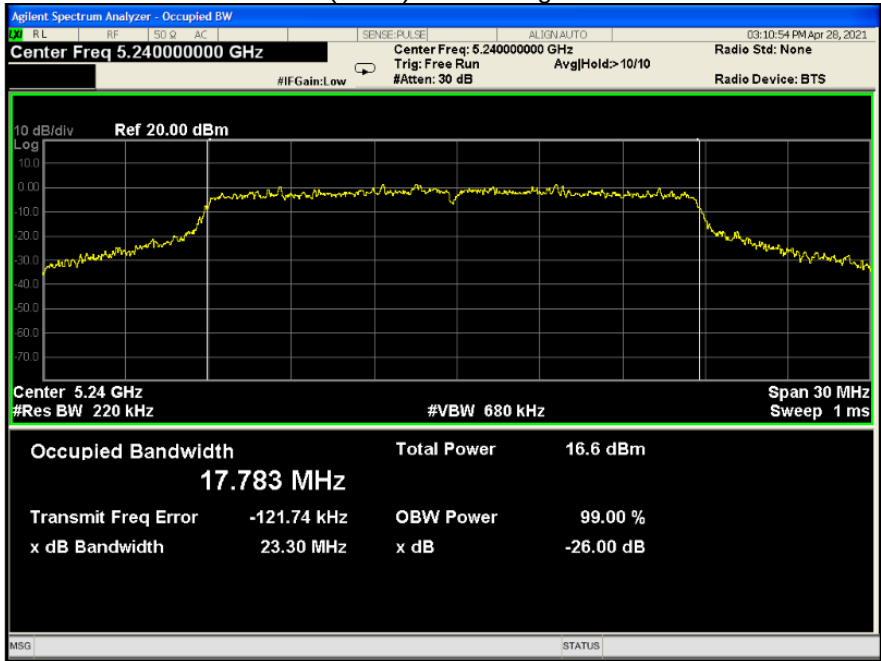
802.11ac(HT20) U-NII-1 Low channel



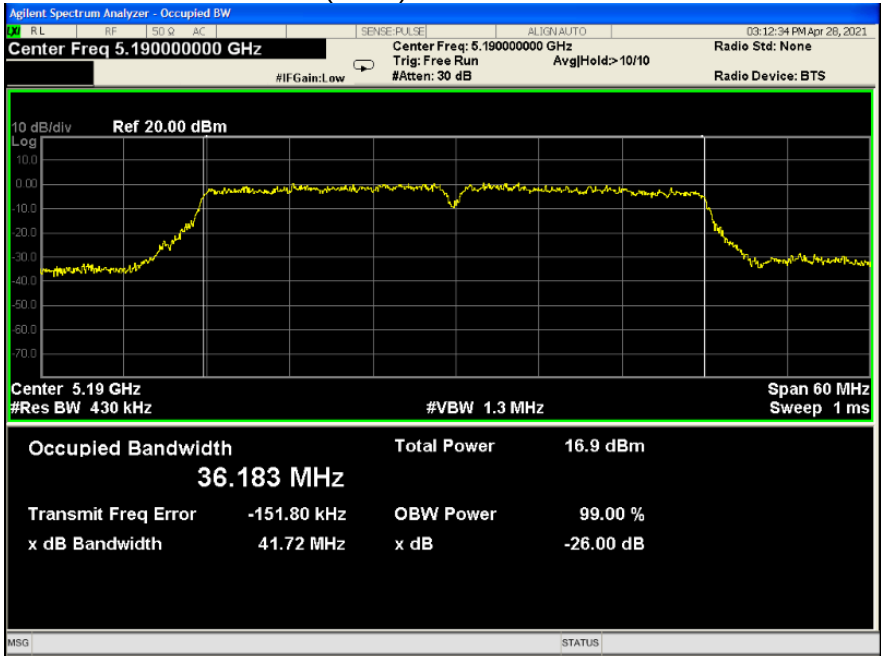
802.11ac(HT20) U-NII-1 Middle channel



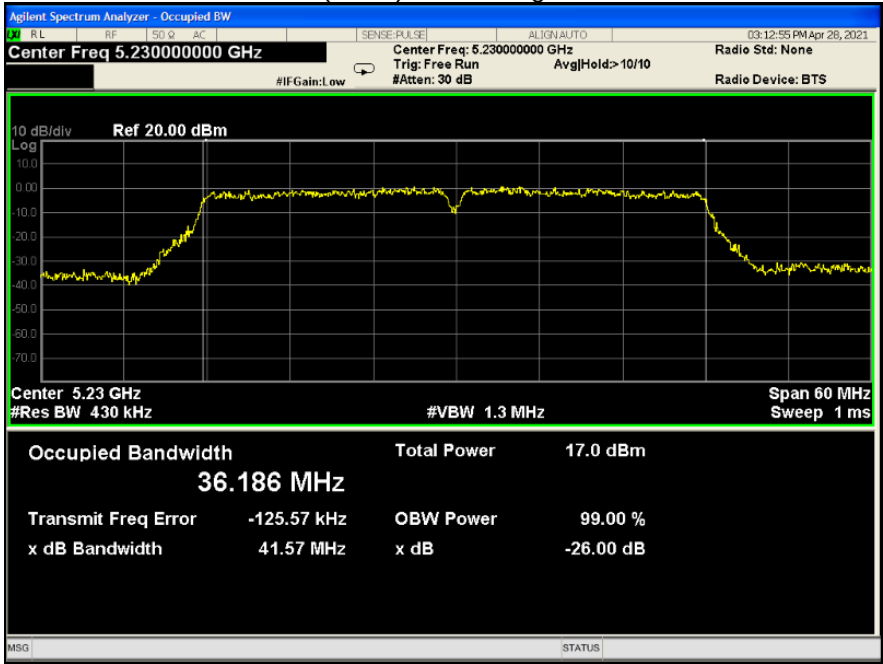
802.11ac(HT20) U-NII-1 High channel



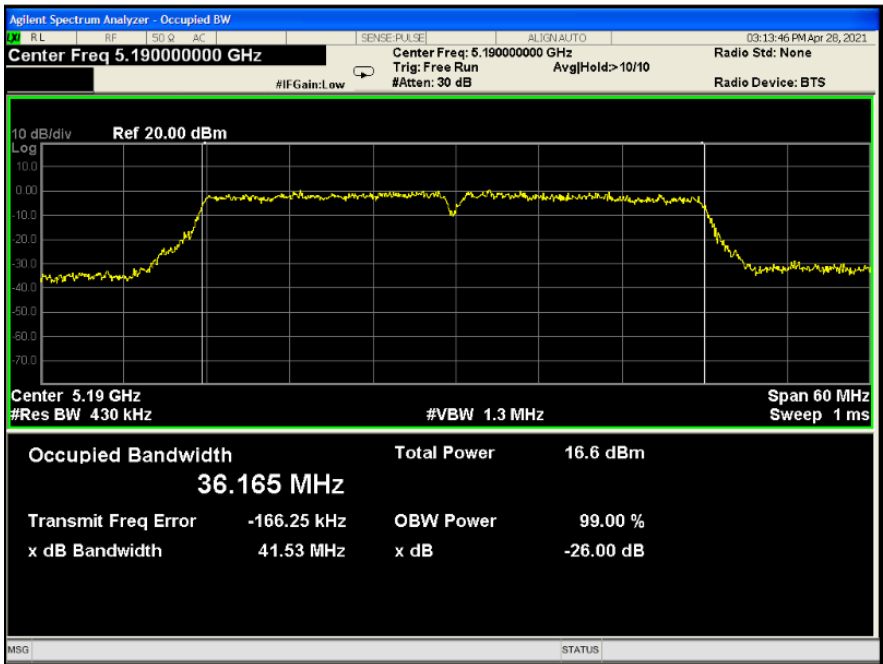
802.11n(HT40) U-NII-1 Low channel



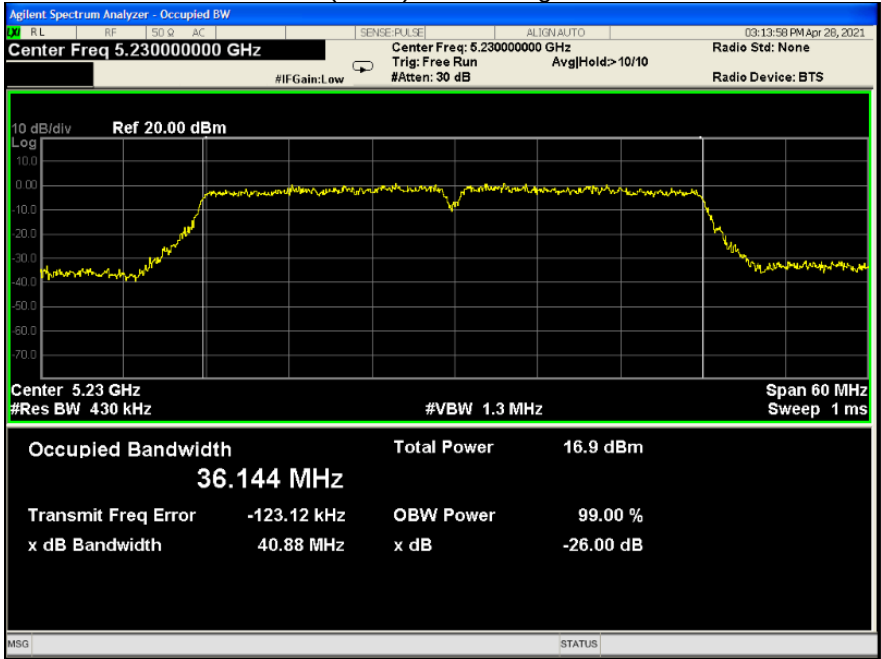
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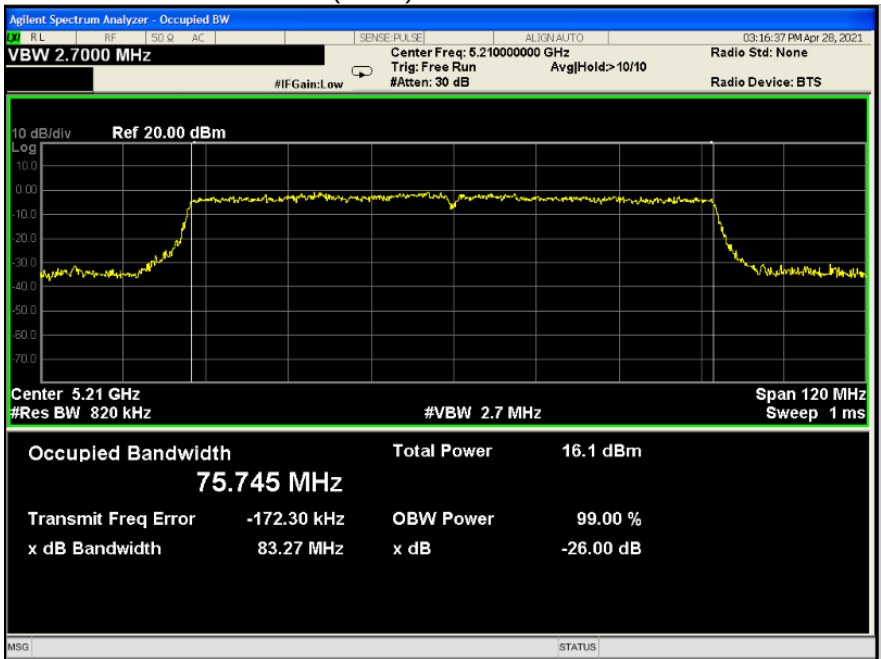
802.11ac(HT40) U-NII-1 Low channel



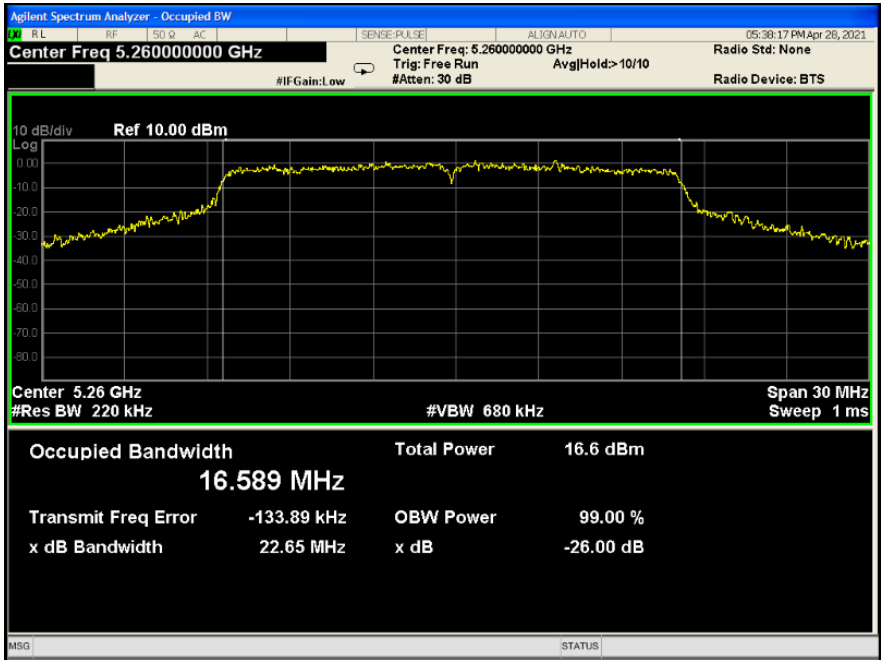
802.11ac(HT40) U-NII-1 High channel



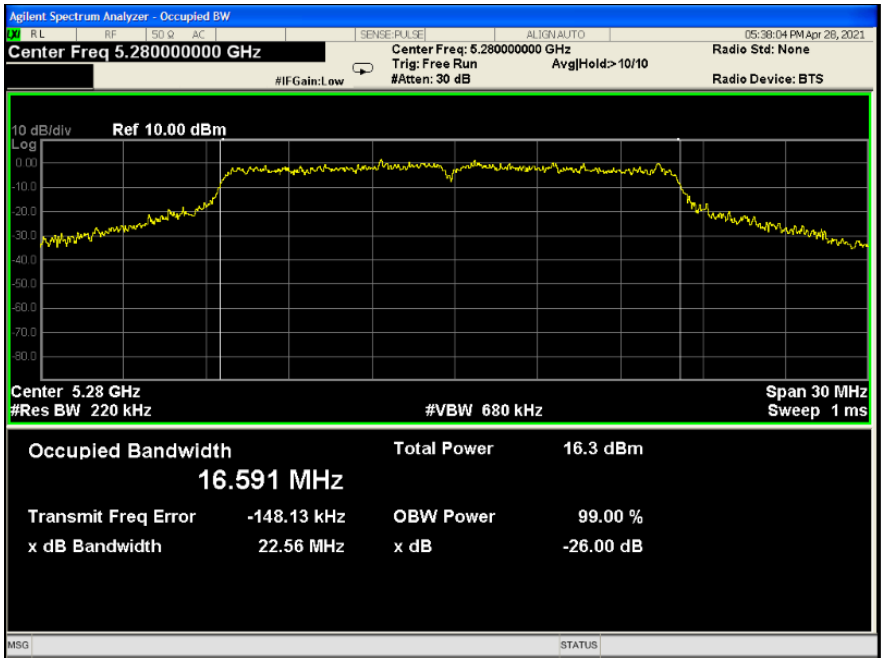
802.11ac(HT80) U-NII-1 Low channel



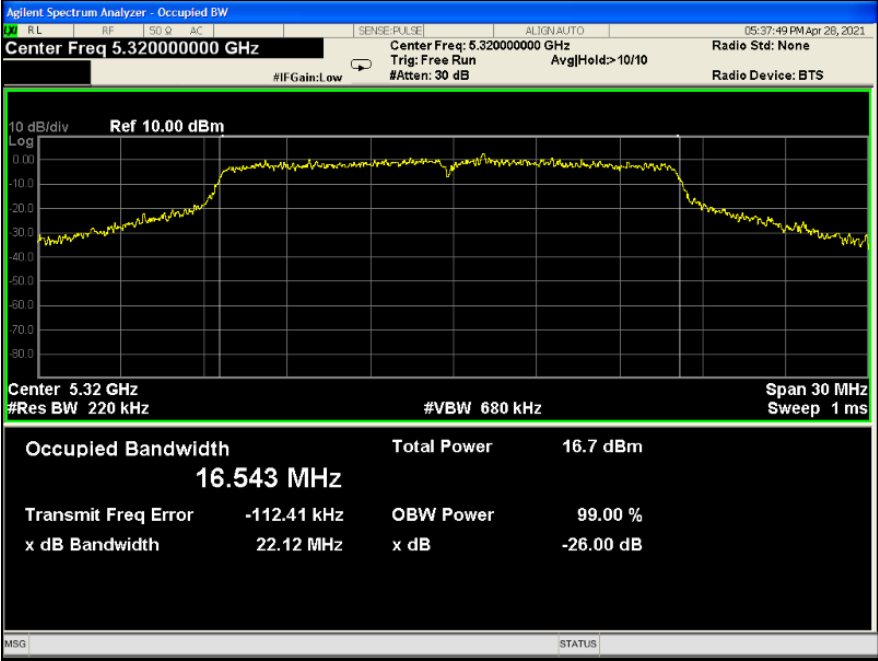
802.11a U-NII-2A Low channel



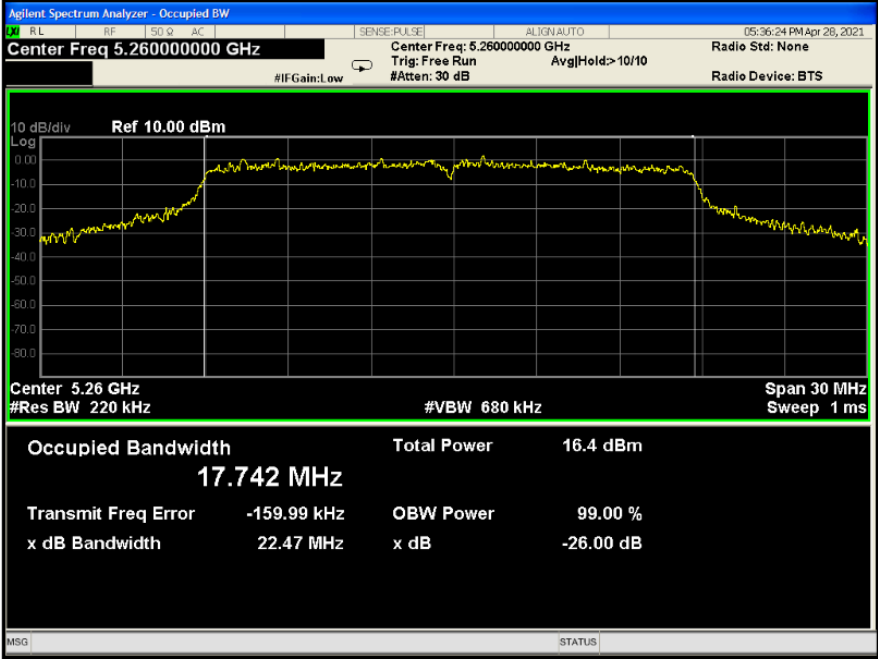
802.11a U-NII-2A Middle channel



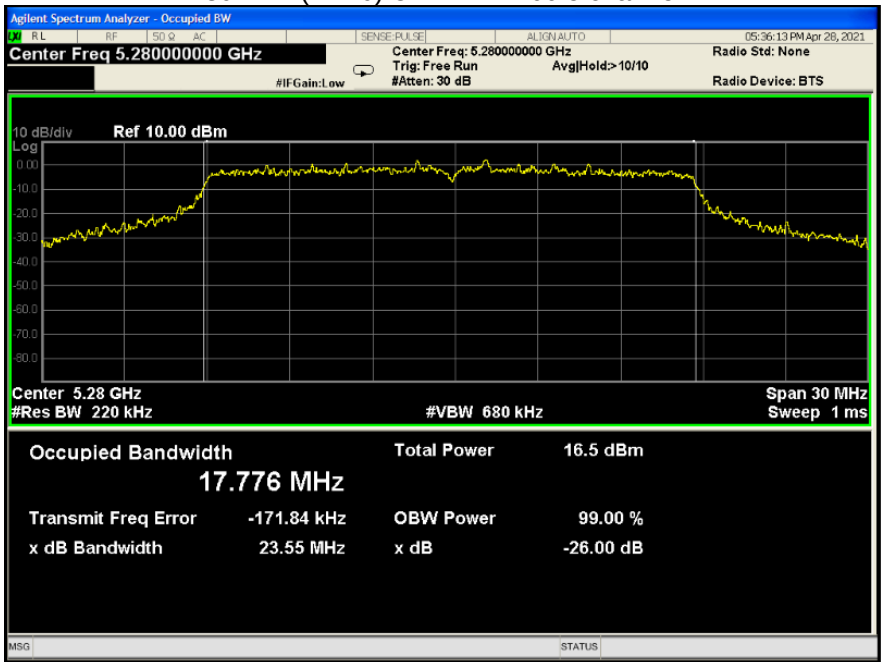
802.11a U-NII-2A High channel



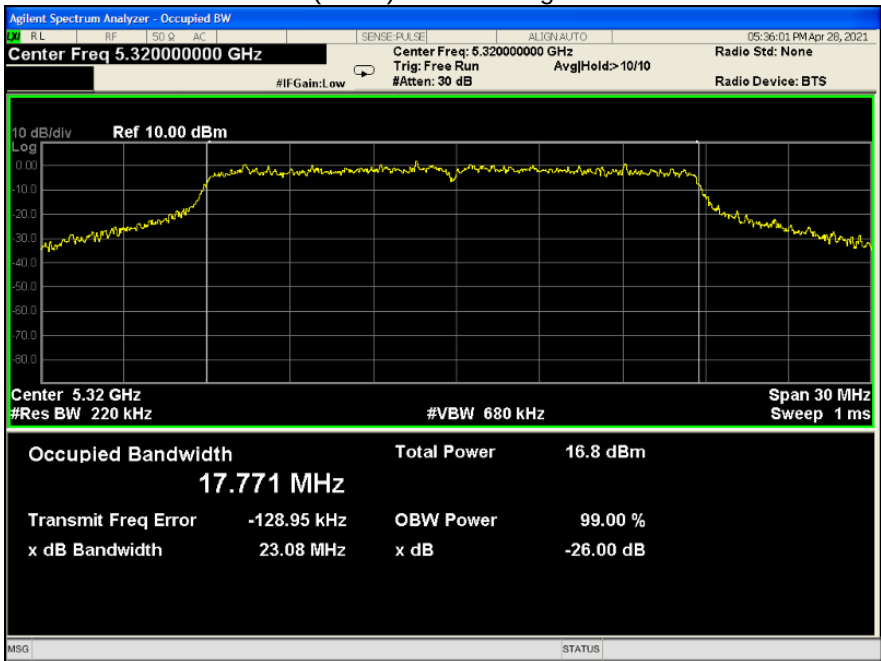
802.11n(HT20) U-NII-2A Low channel



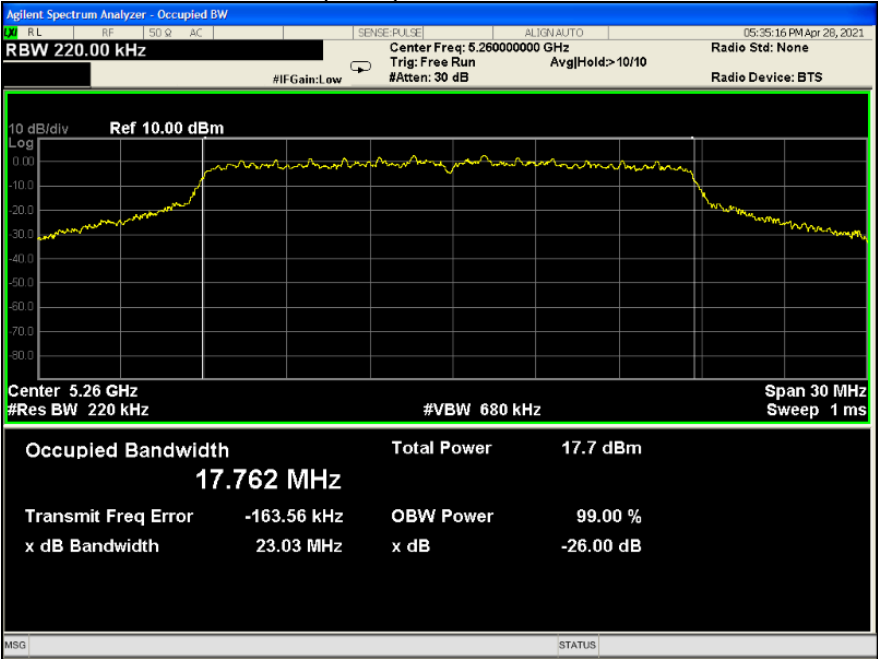
802.11n(HT20) U-NII-2A Middle channel



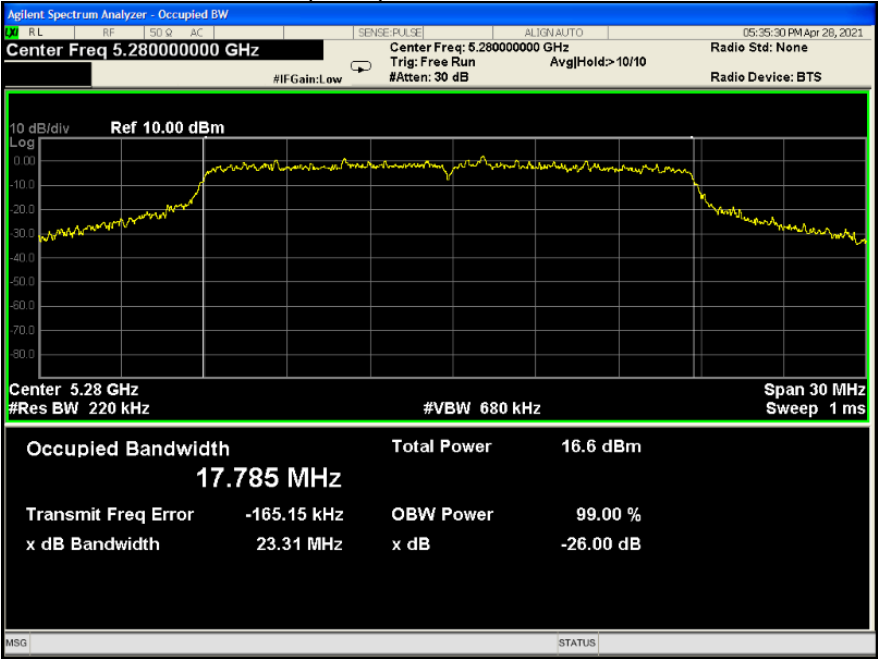
802.11n(HT20) U-NII-2A High channel



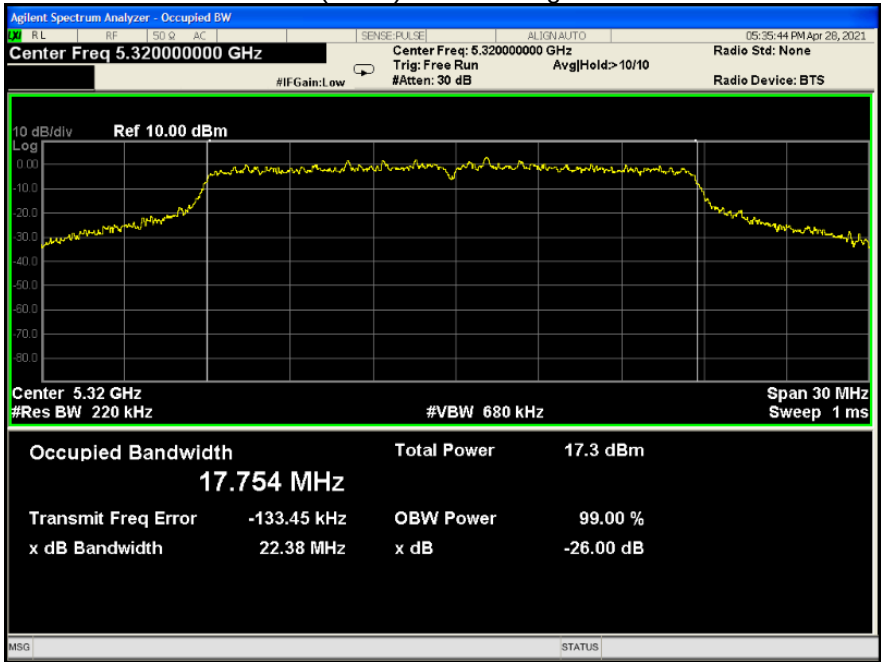
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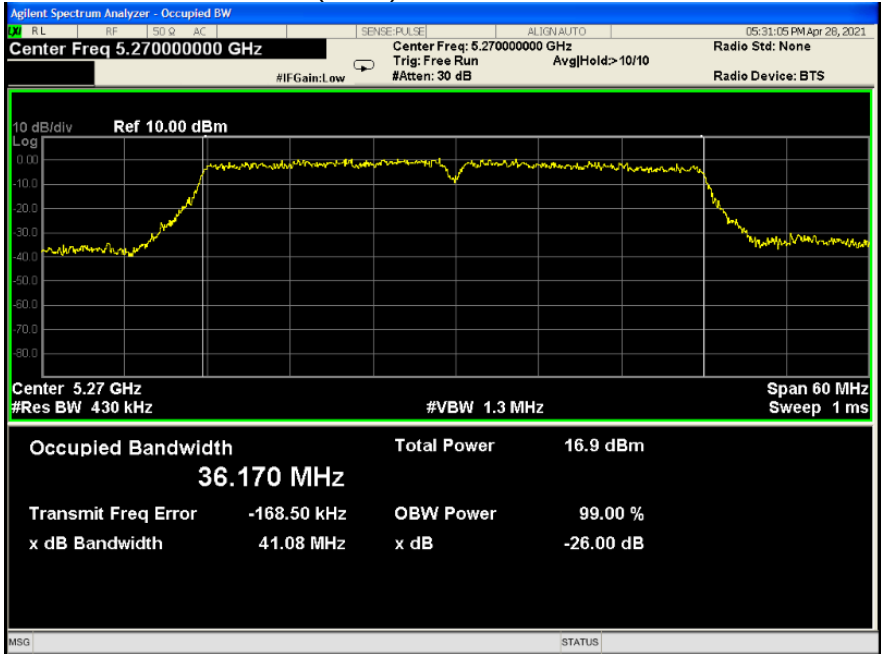
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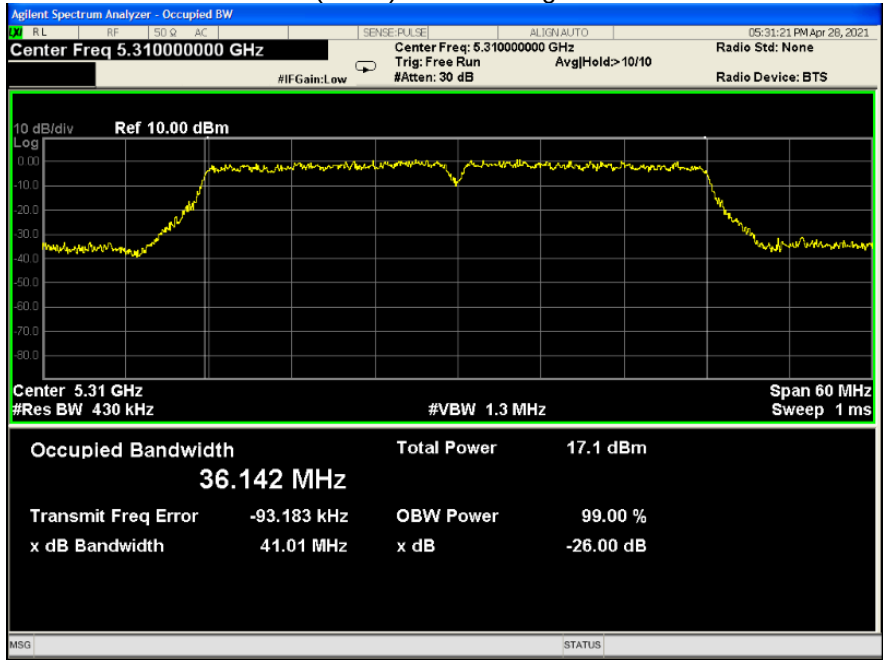
802.11ac(HT20) U-NII-2A High channel



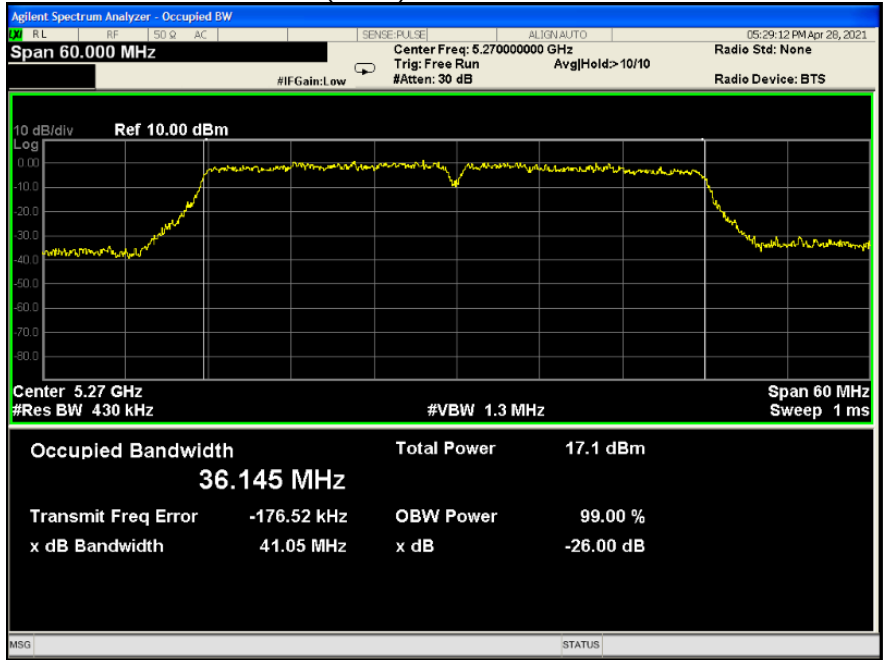
802.11n(HT40) U-NII-2A Low channel



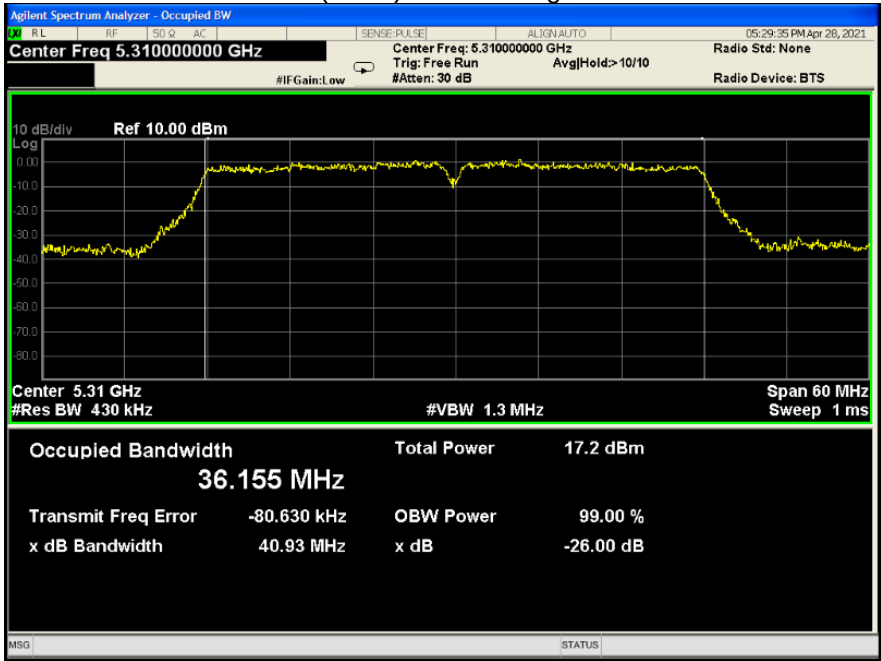
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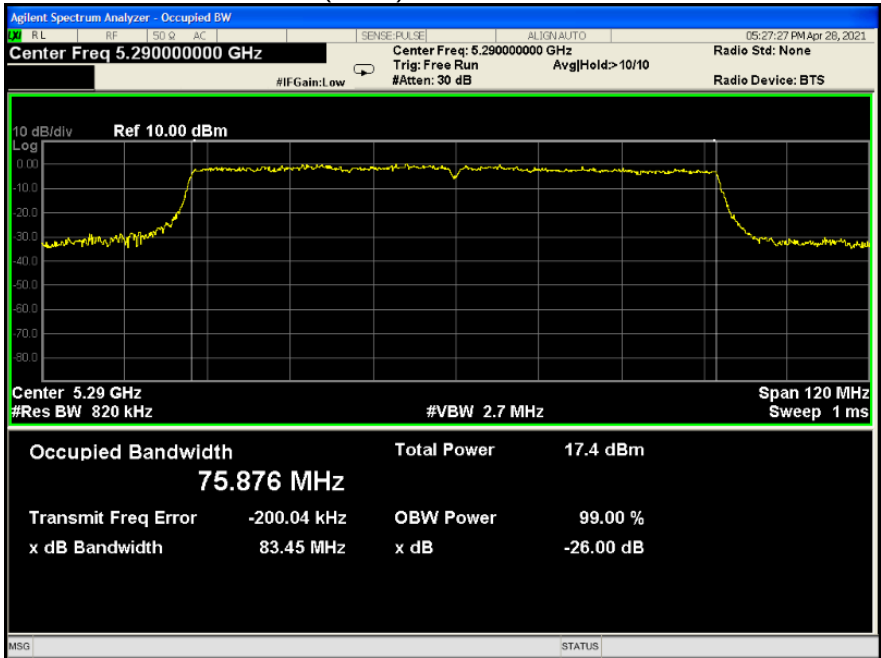
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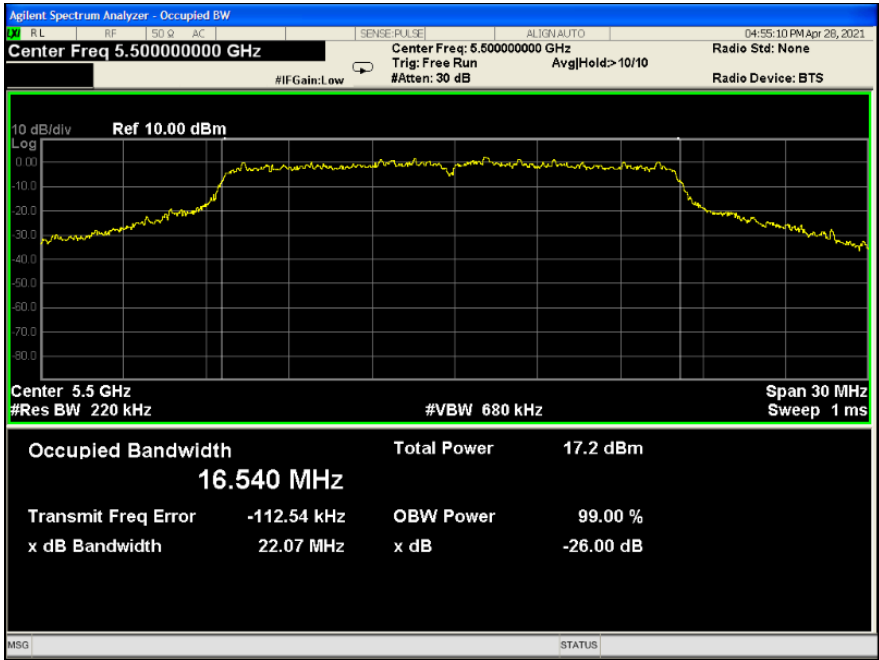
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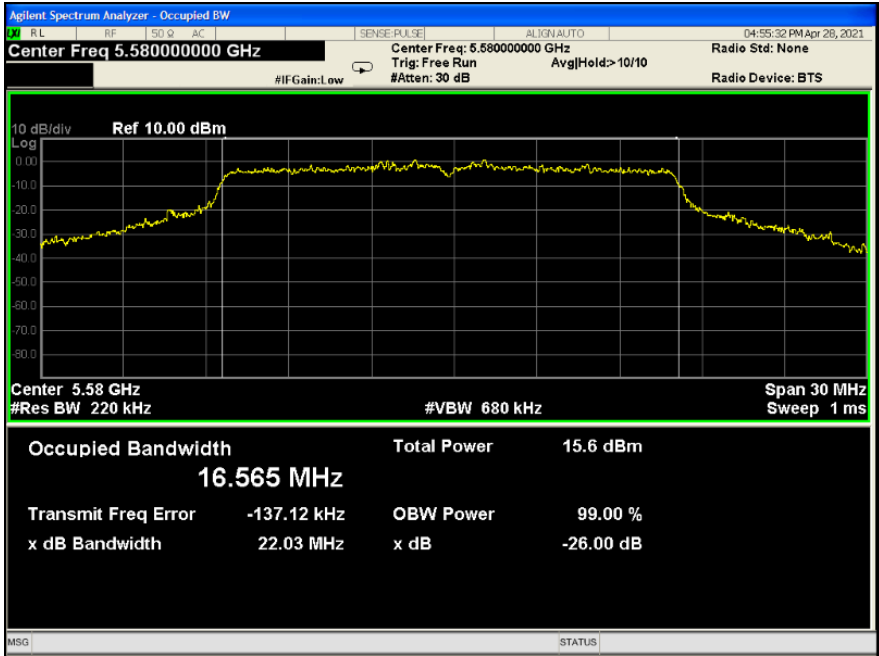
802.11ac(HT80) U-NII-2A Low channel



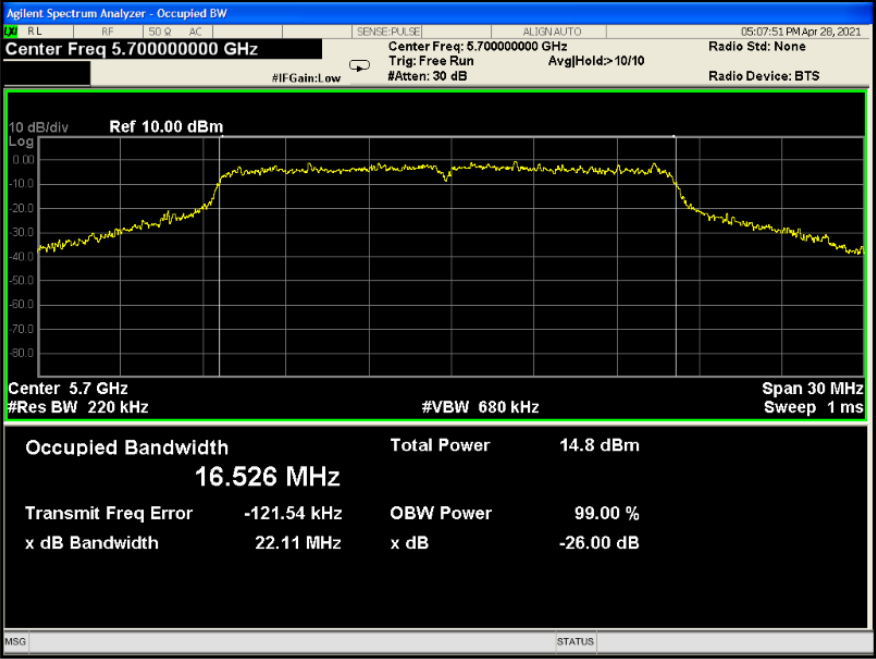
802.11a U-NII-2C Low channel



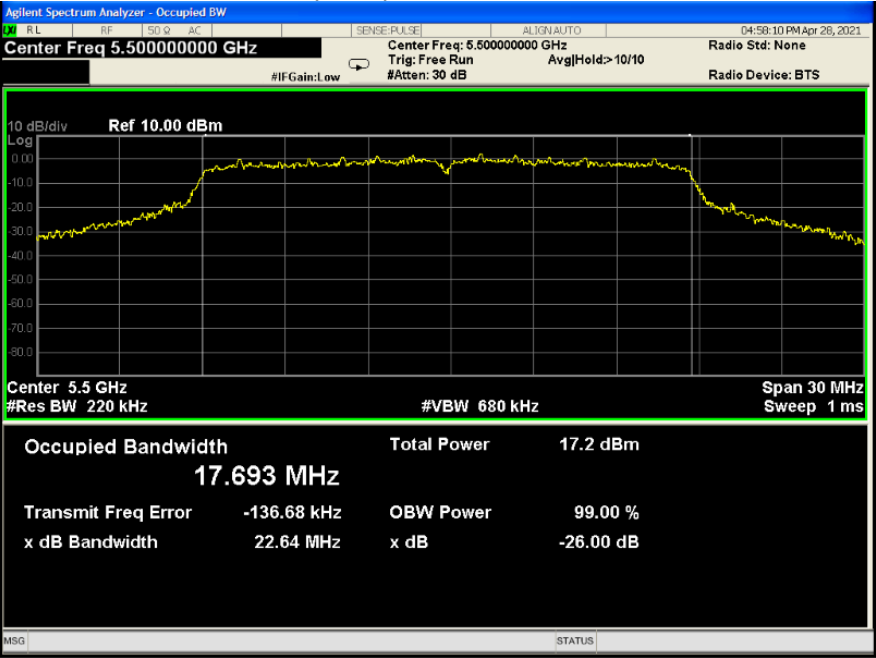
802.11a U-NII-2C Middle channel



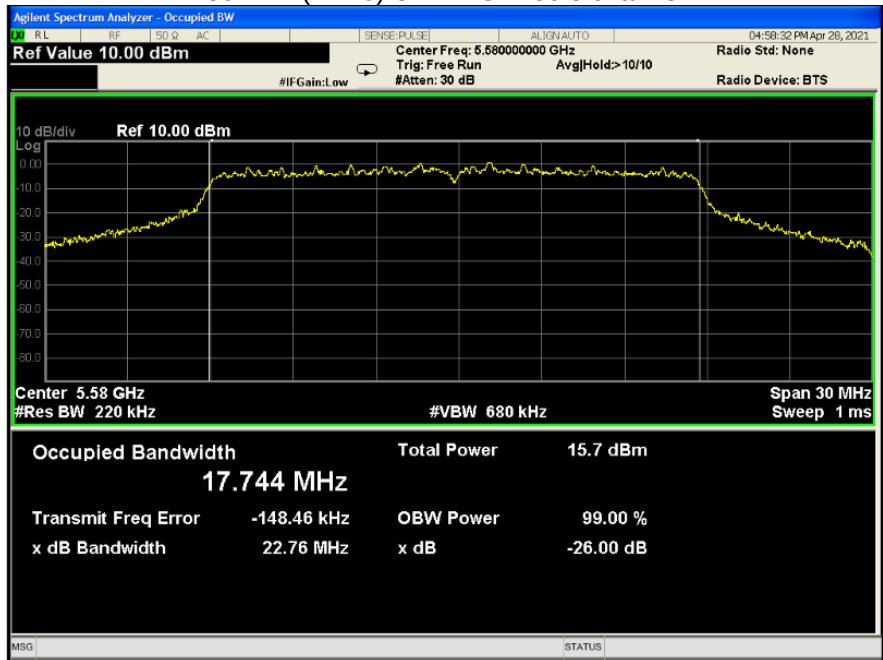
802.11a U-NII-2C High channel



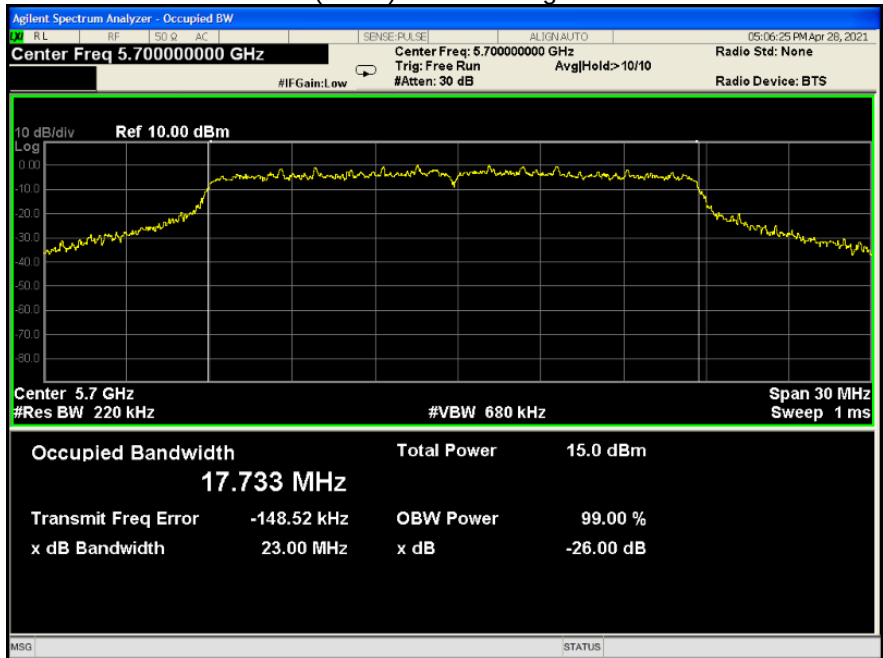
802.11n(HT20) U-NII-2C Low channel



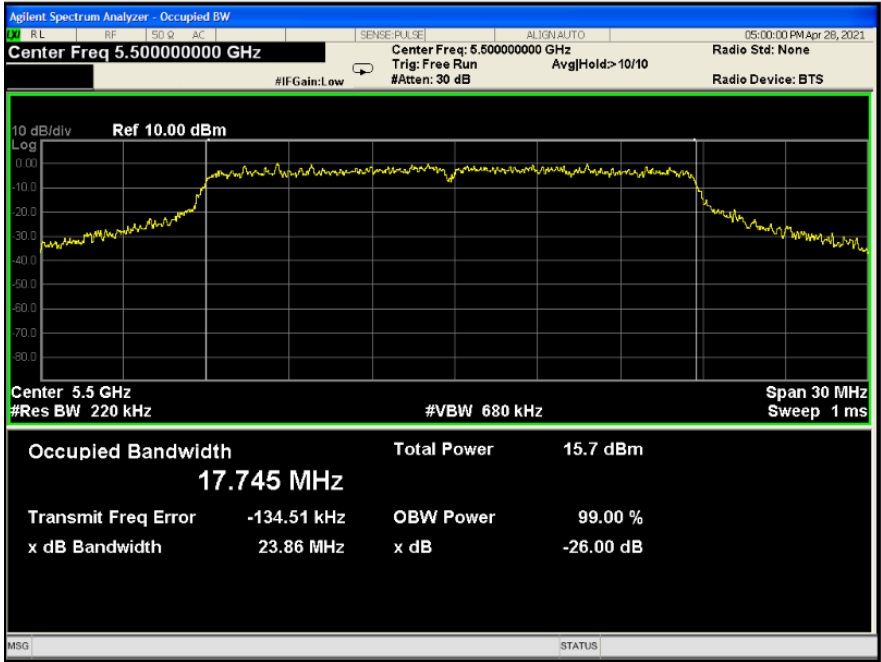
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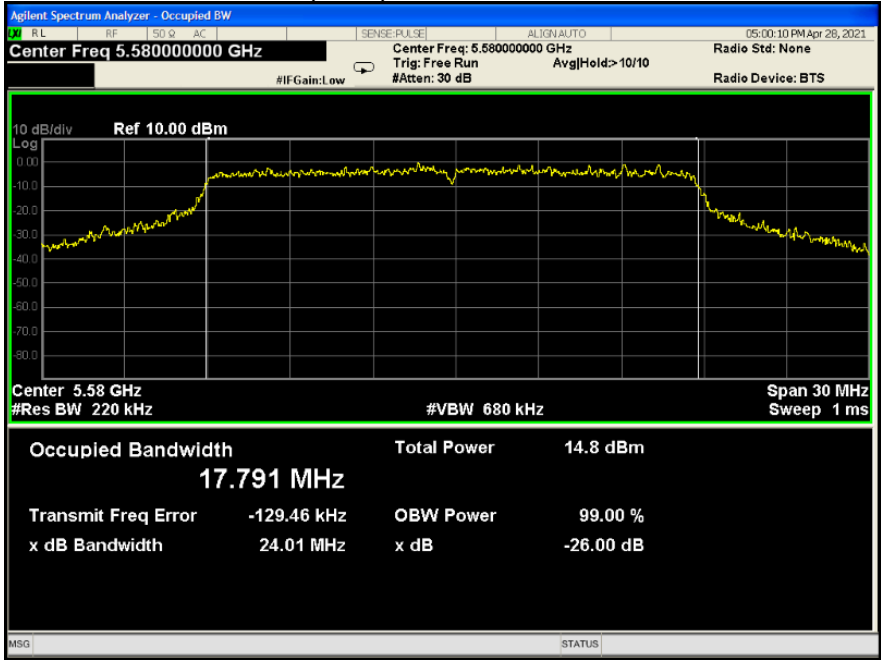
802.11n(HT20) U-NII-2C High channel



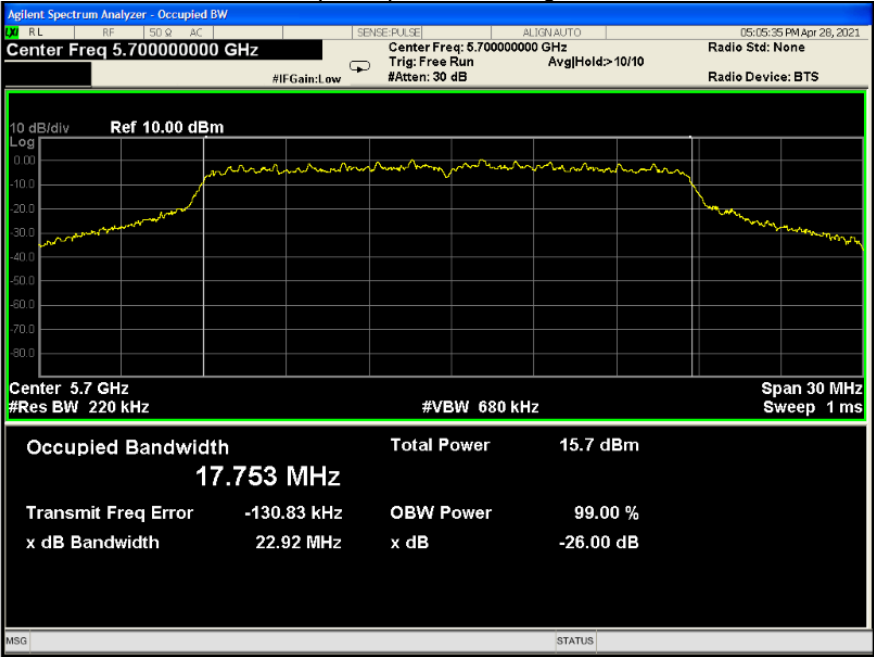
802.11ac(HT20) U-NII-2C Low channel



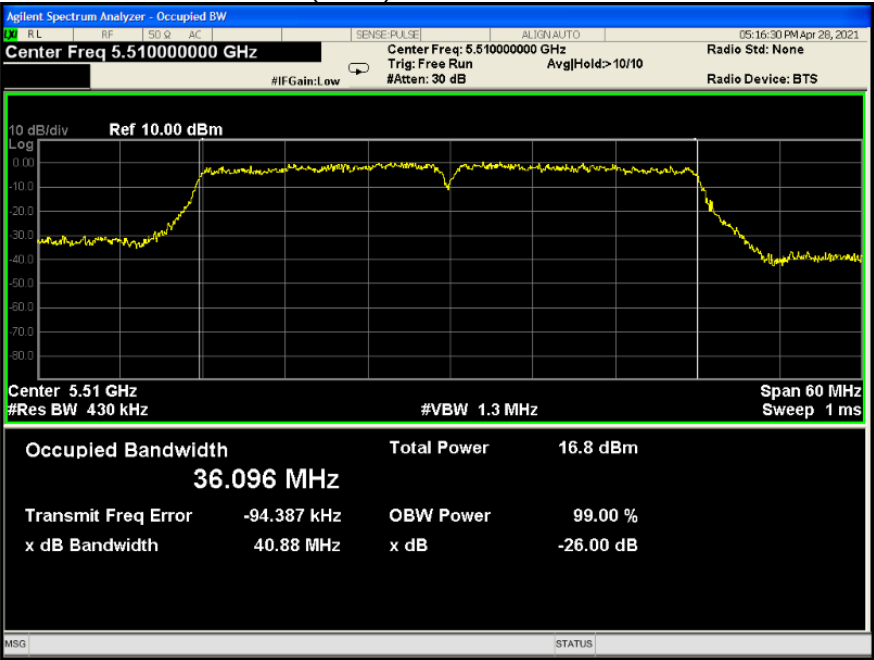
802.11ac(HT20) U-NII-2C Middle channel



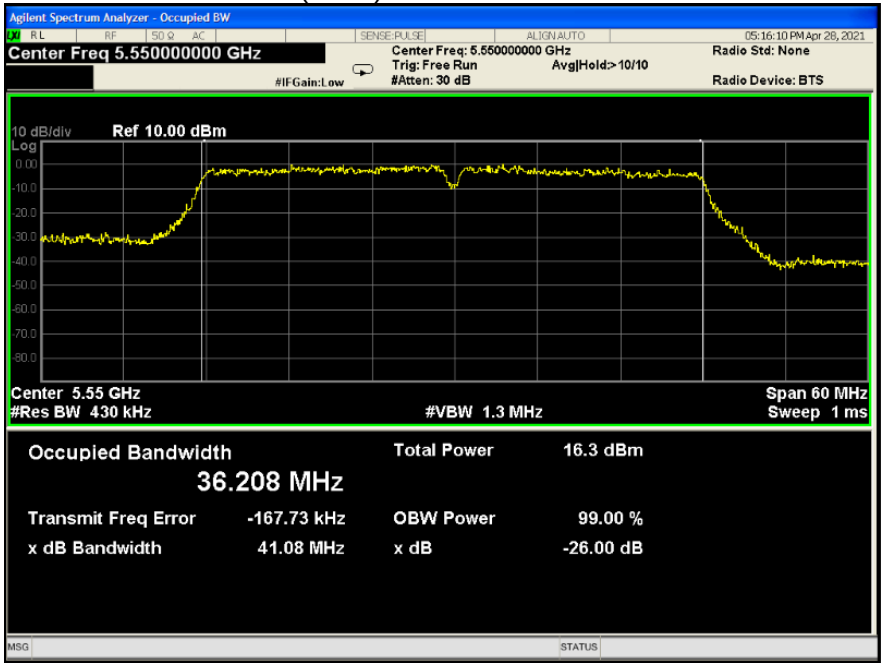
802.11ac(HT20) U-NII-2C High channel



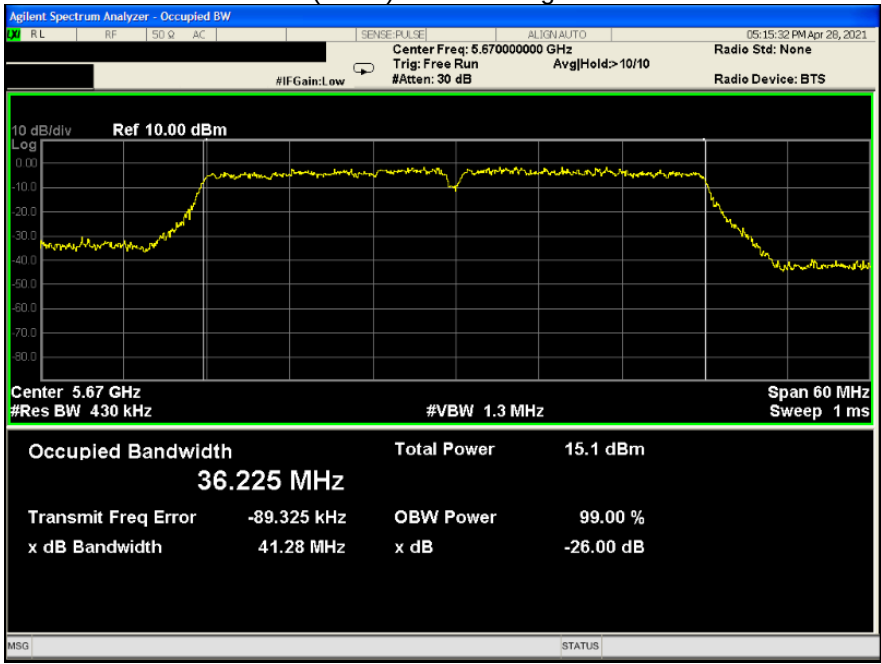
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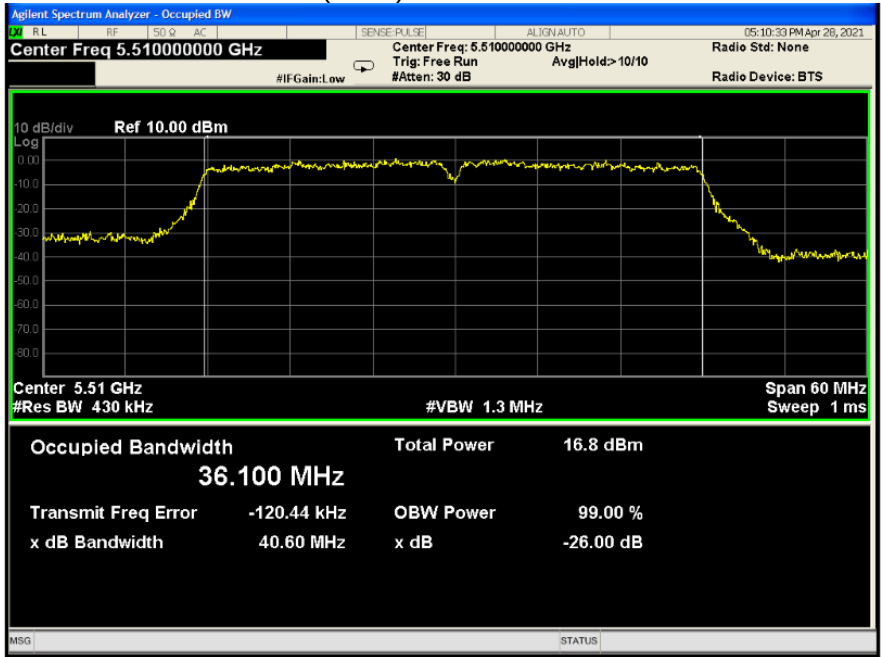
802.11n(HT40) U-NII-2C Middle channel



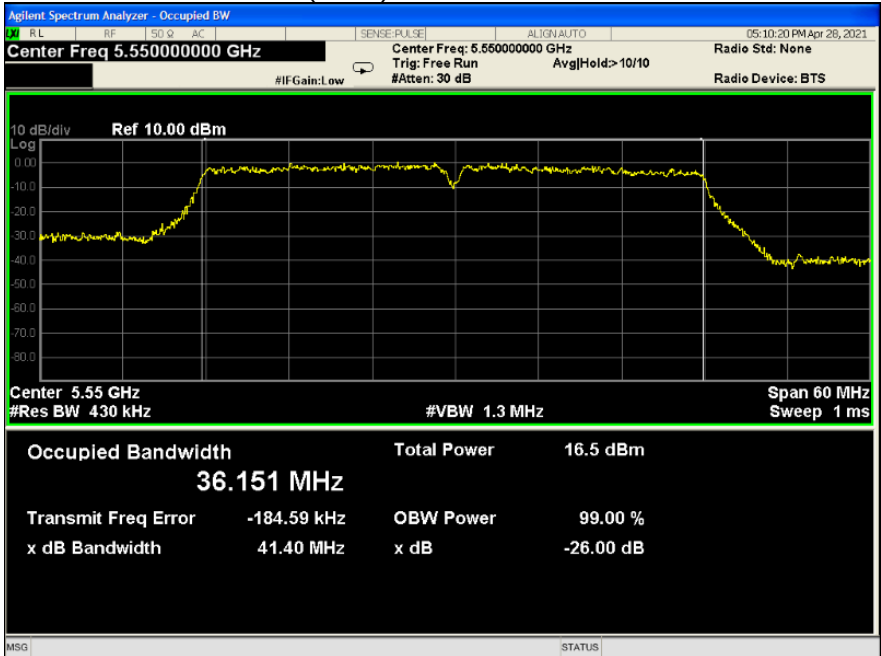
802.11n(HT40) U-NII-2C High channel



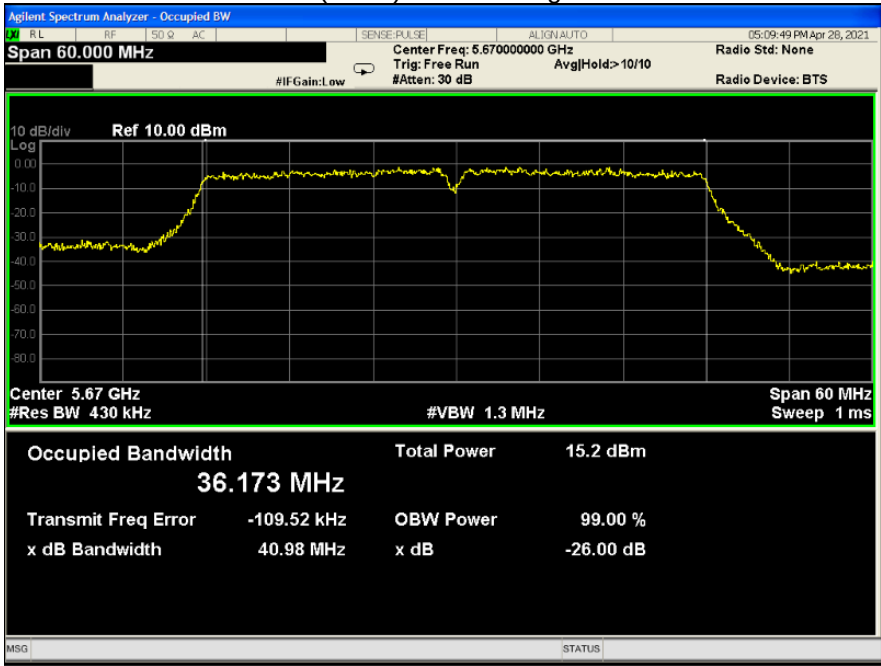
802.11ac(HT40) U-NII-2C Low channel



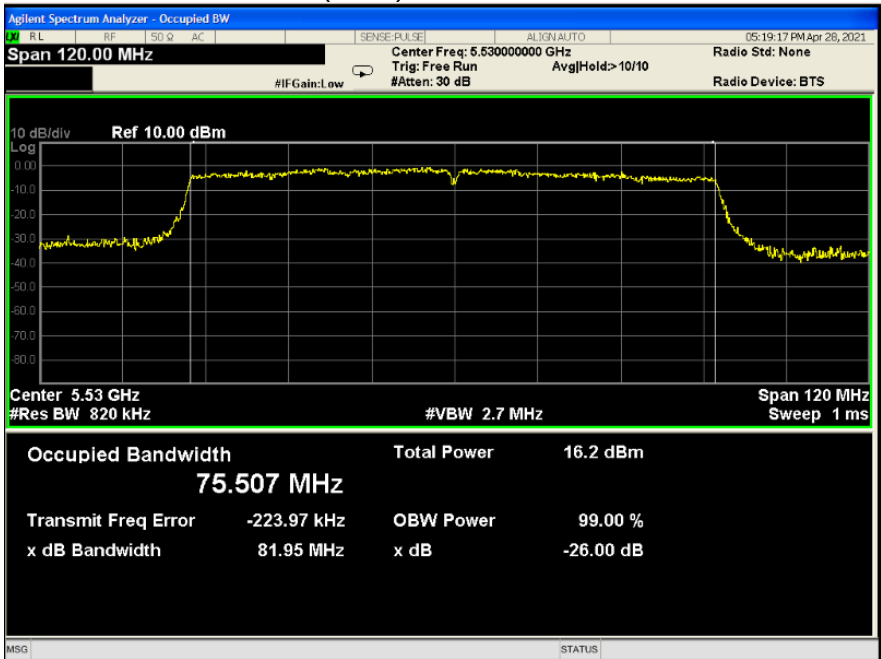
802.11ac(HT40) U-NII-2C Middle channel



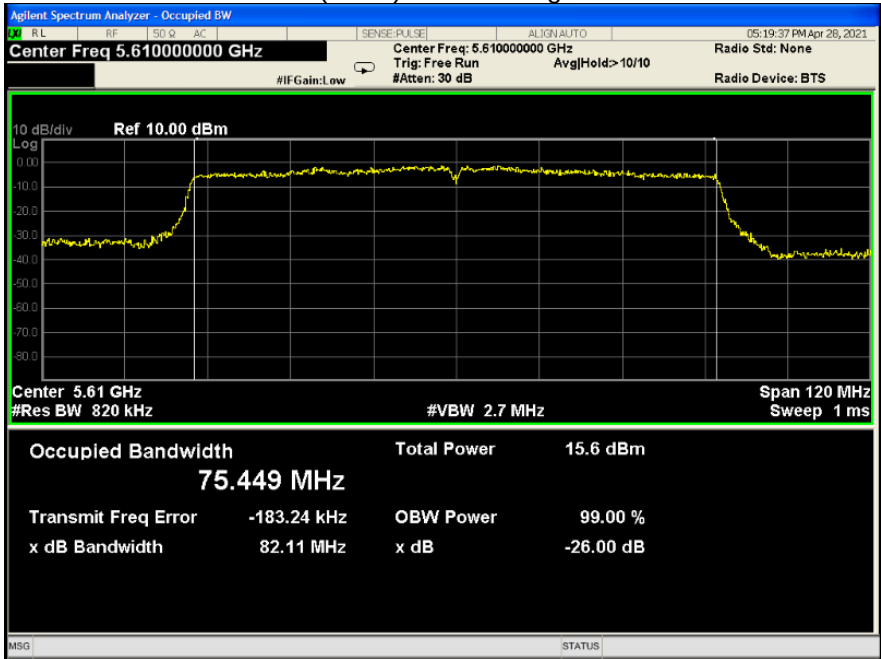
802.11ac(HT40) U-NII-2C High channel



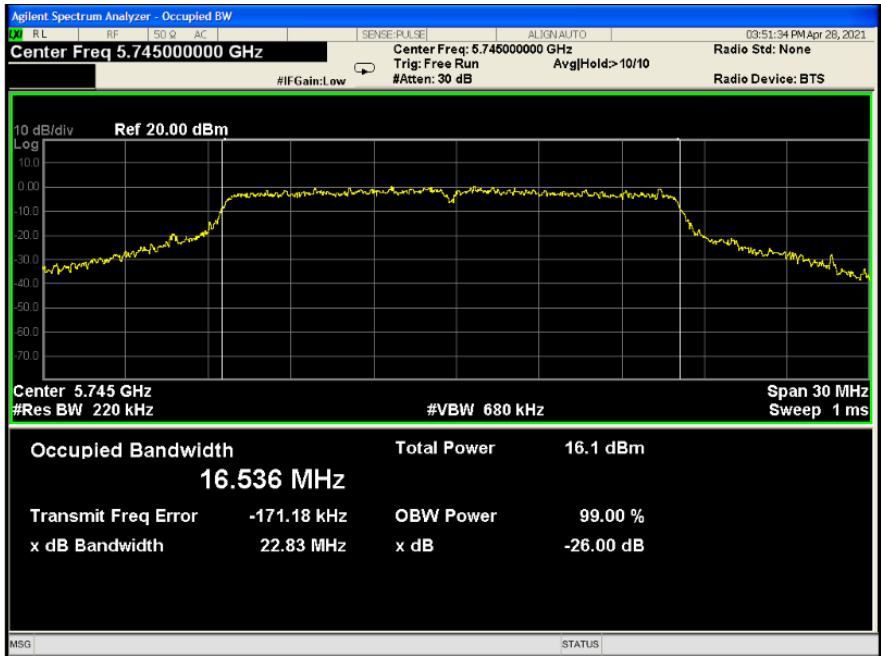
802.11ac(HT80) U-NII-2C Low channel



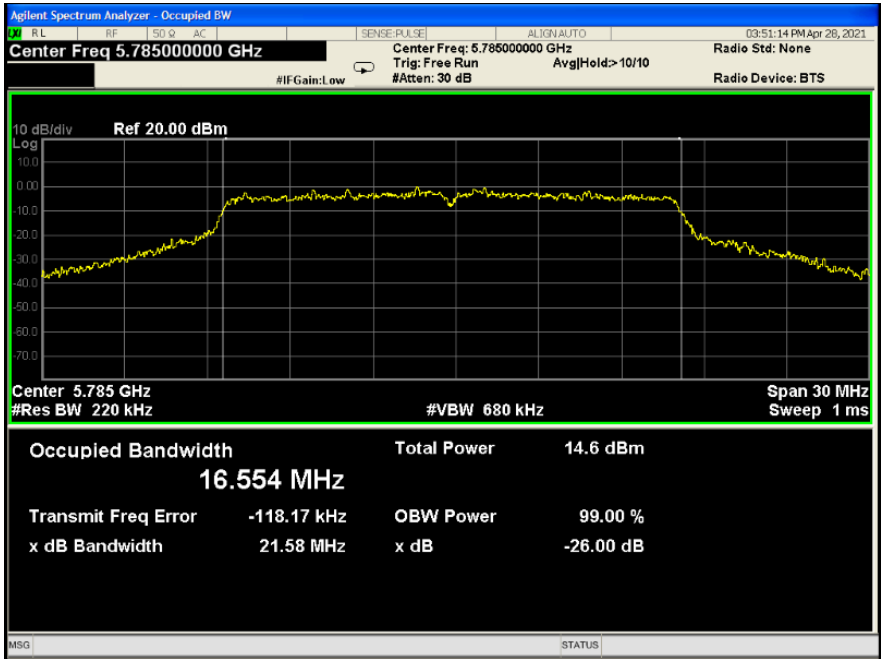
802.11ac(HT80) U-NII-2C High channel



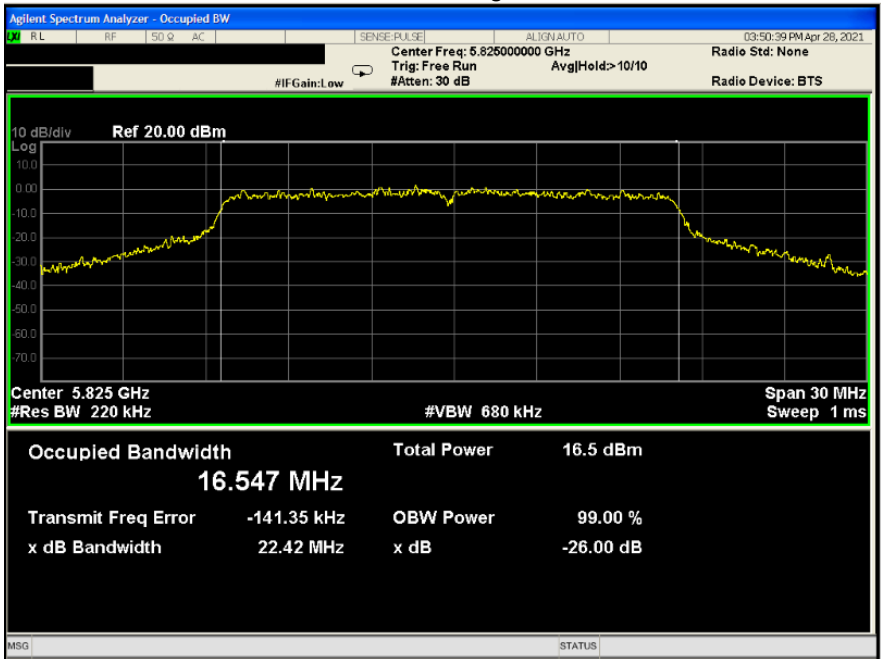
802.11a U-NII-3 Low channel



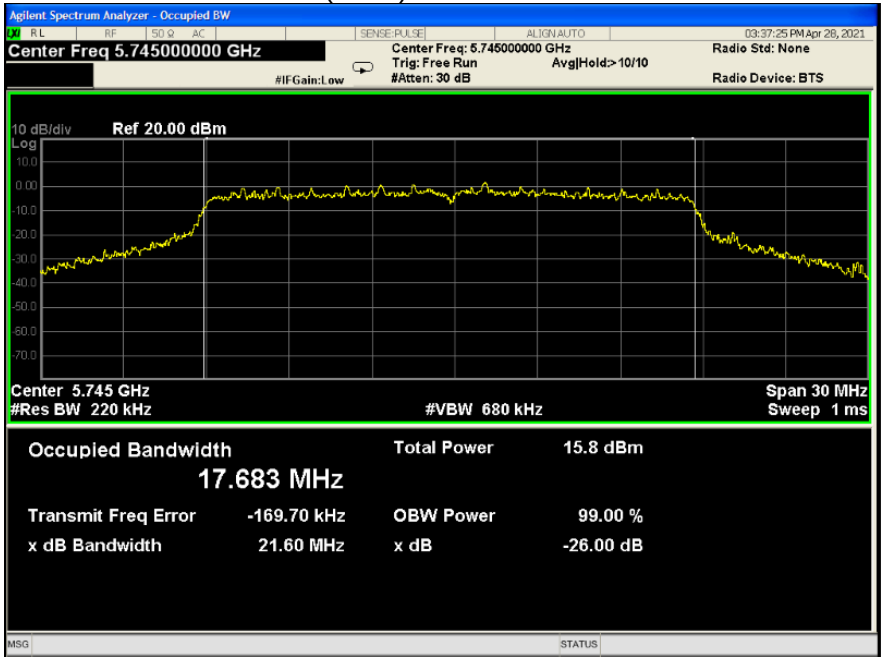
802.11a U-NII-3 Middle channel



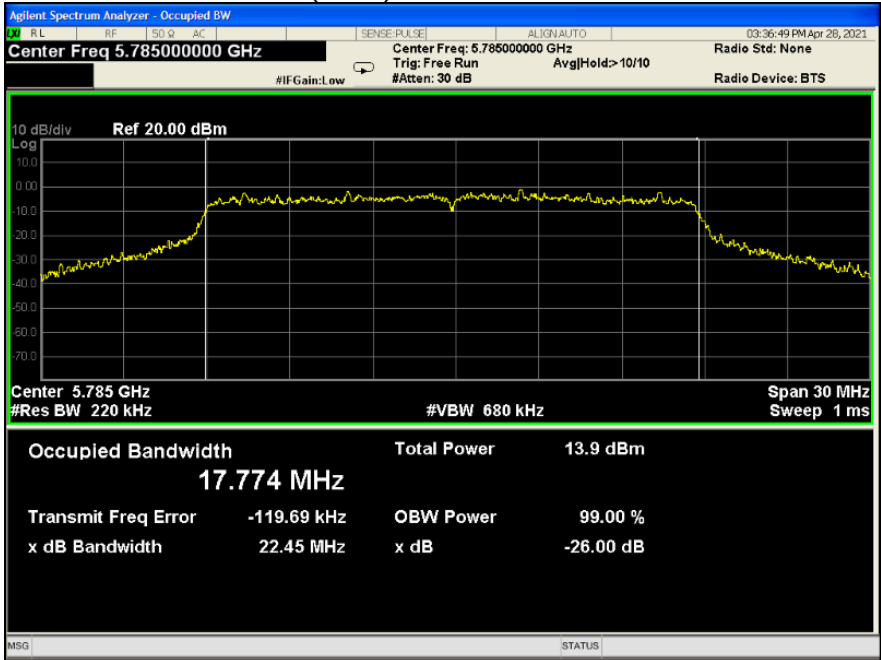
802.11a U-NII-3 High channel



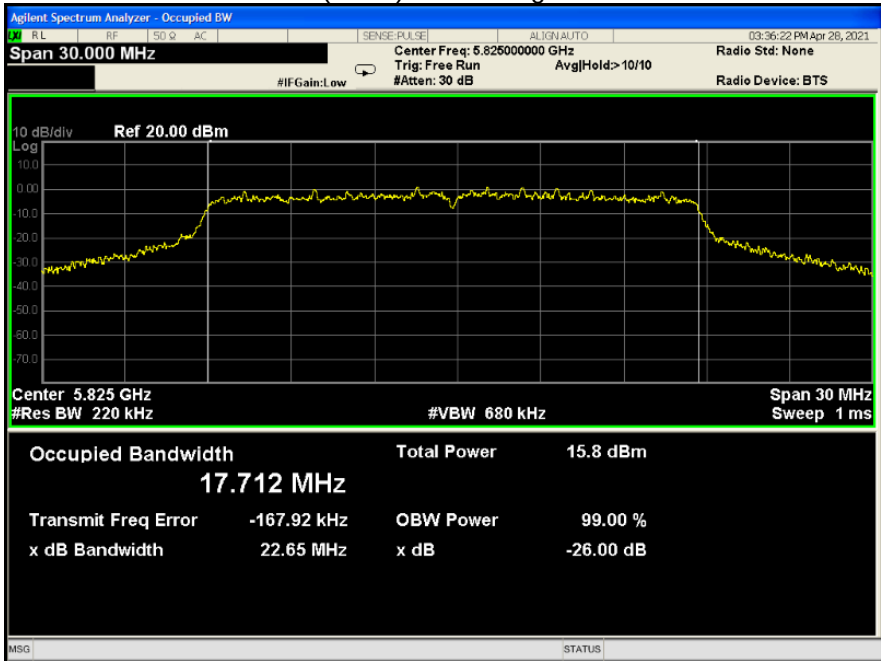
802.11n(HT20) U-NII-3 Low channel



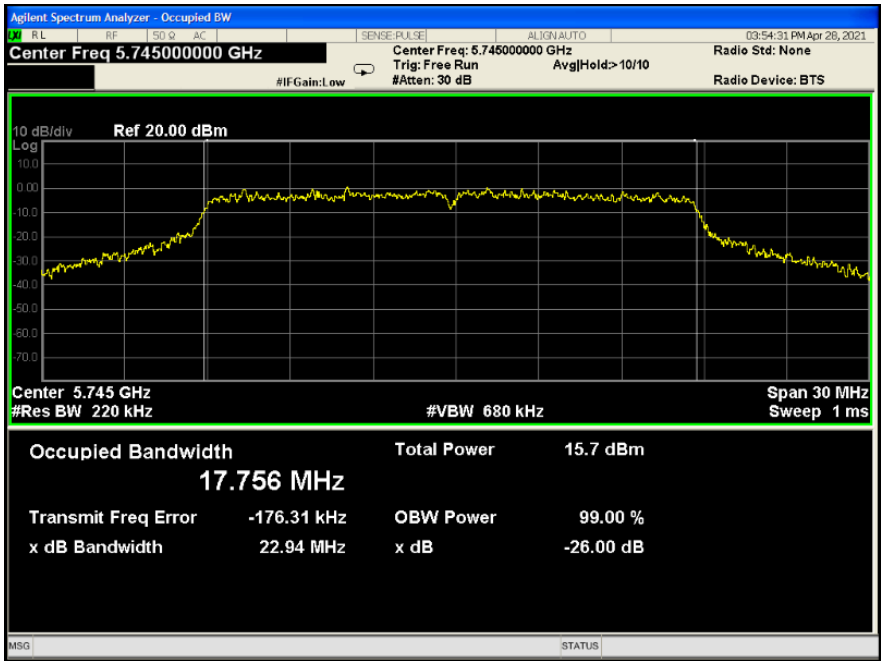
802.11n(HT20) U-NII-3 Middle channel



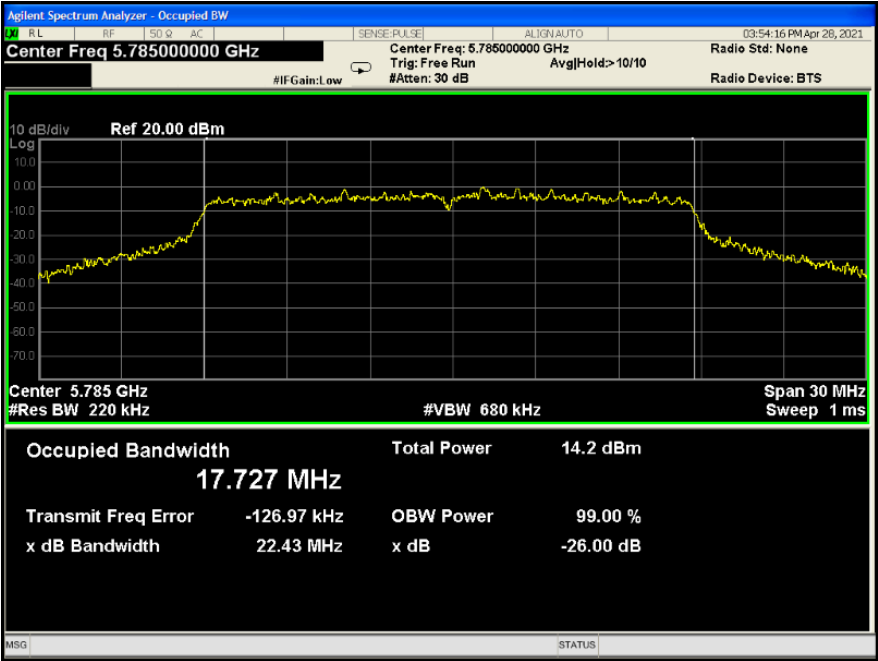
802.11n(HT20) U-NII-3 High channel



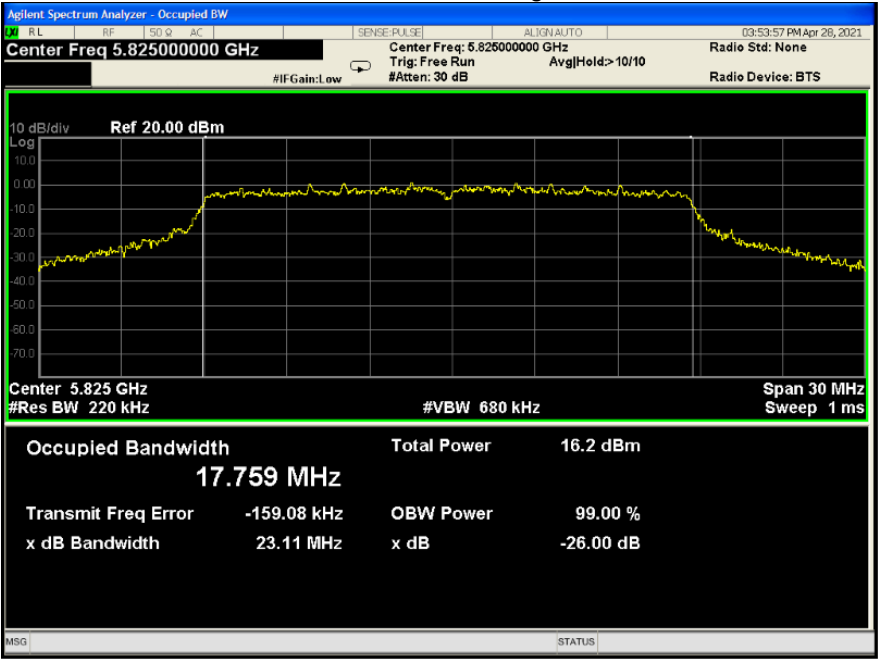
802.11ac HT20 U-NII-3 Low channel



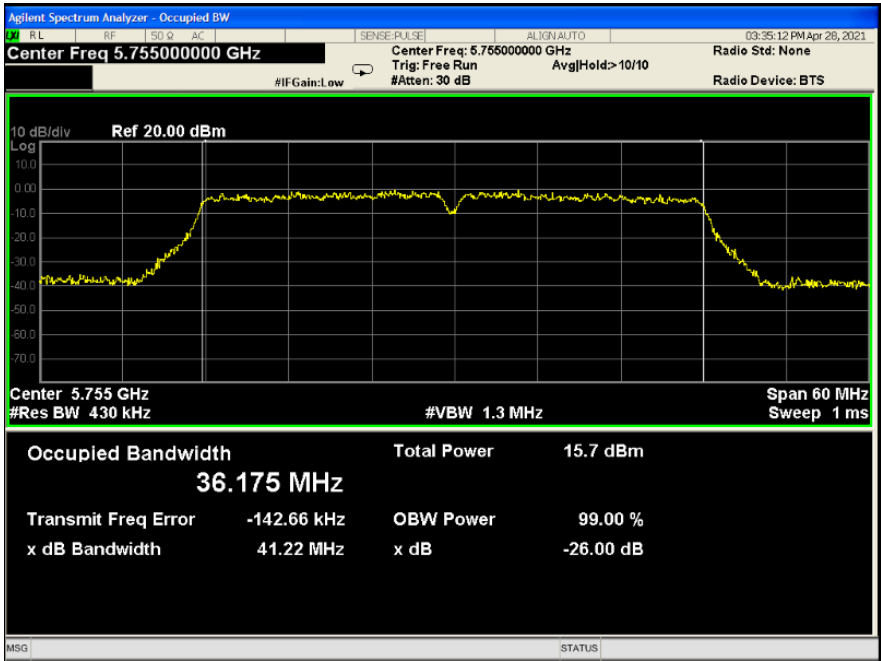
802.11ac HT20 U-NII-3 Middle channel



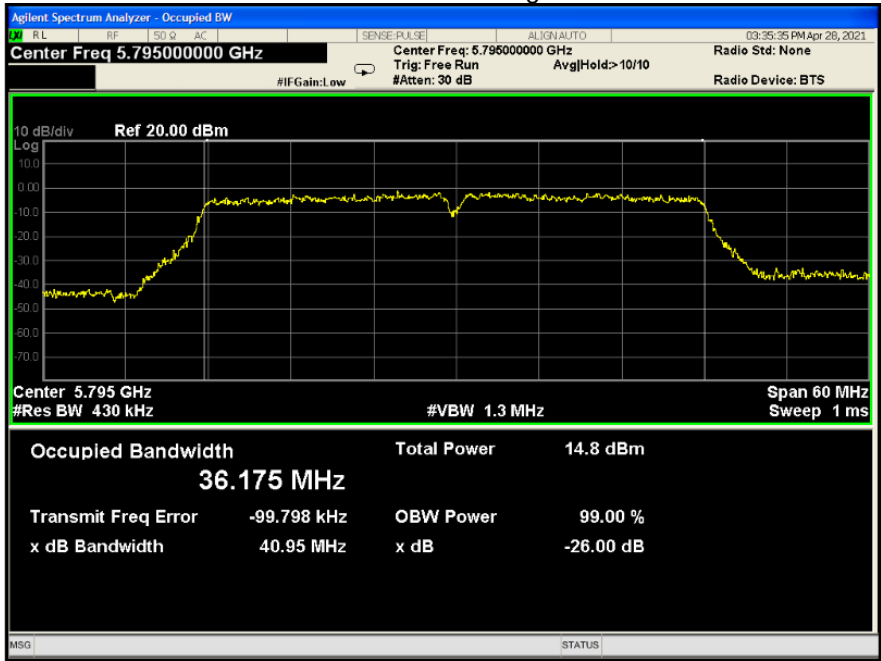
802.11ac HT20 U-NII-3 High channel



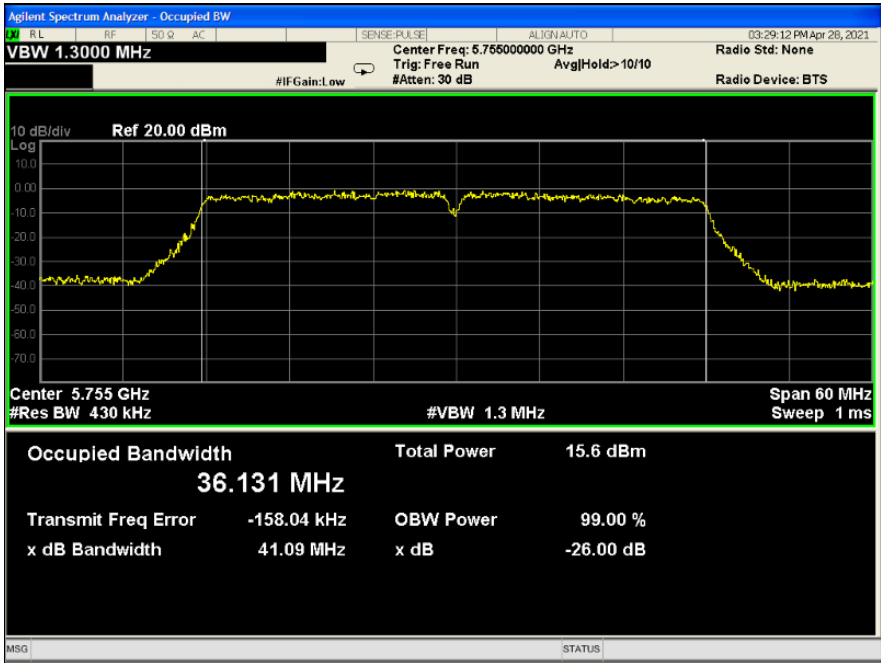
802.11n HT40 U-NII-3 Low channel



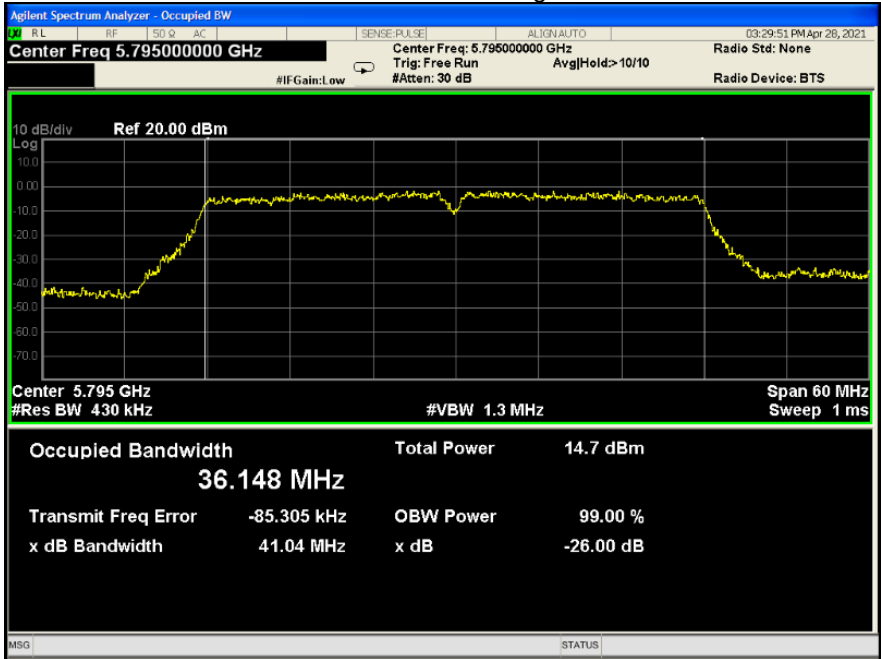
802.11n HT40 U-NII-3 High channel

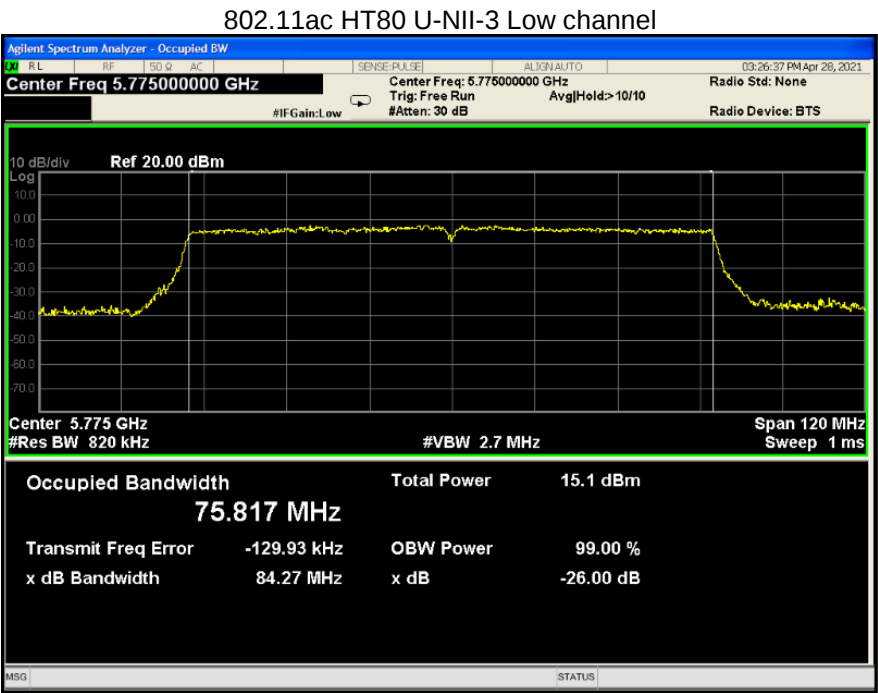


802.11ac HT40 U-NII-3 Low channel



802.11ac HT40 U-NII-3 High channel





13 Conducted Output Power

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 E
Test Limit:	U-NII-1 250mW(24dBm) U-NII-2A 250mW(24dBm) or 11 dBm + 10 log B U-NII-2C 250mW(24dBm) or 11 dBm + 10 log B U-NII-3 1W(30dBm)
Test Result:	PASS Conducted output power= measurement power+10log(1/x) X is duty cycle=1, so 10log(1/1)=0
Remark:	Conducted output power= measurement power where B is the 26 dB emission bandwidth in megahertz

13.1 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 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

13.2 Test Result :

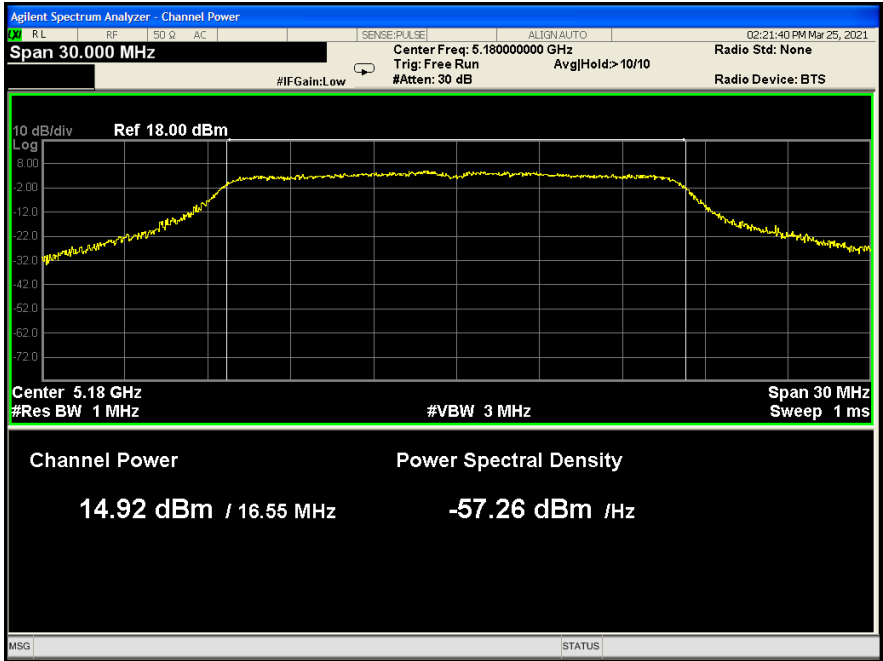
Band	Operation mode	CH	Conducted Output Power (dBm)		
			ANT0	ANT1	Total
U-NII-1	802.11a	Low	14.92	16.49	/
		Middle	15.11	14.48	/
		High	15.95	16.51	/
	802.11n(HT20)	Low	15.24	15.44	18.35
		Middle	16.26	16.14	19.21
		High	16.23	16.44	19.35
	802.11n(HT40)	Low	16.15	16.10	19.14
		Middle	/	/	/
		High	16.91	16.82	19.88
	802.11ac(HT20)	Low	15.66	15.62	18.65
		Middle	15.75	15.65	18.71
		High	16.85	15.82	19.38
	802.11ac(HT40)	Low	16.02	16.10	19.07
		Middle	/	/	/
		High	16.85	16.33	19.61
	802.11ac(HT80)	Low	16.59	16.21	19.41
		Middle	/	/	/
		High	/	/	/
U-NII-2A	802.11a	Low	15.99	16.16	/
		Middle	15.66	14.98	/
		High	15.60	15.80	/
	802.11n(HT20)	Low	15.72	16.17	18.96
		Middle	15.69	15.72	18.72
		High	16.16	15.83	19.01
	802.11n(HT40)	Low	16.84	16.38	19.63
		Middle	/	/	/
		High	16.37	16.71	19.55
	802.11ac(HT20)	Low	15.63	15.67	18.66
		Middle	15.85	15.40	18.64
		High	15.79	16.34	19.08
	802.11ac(HT40)	Low	16.85	16.42	19.65
		Middle	/	/	/
		High	16.99	16.40	19.72
	802.11ac(HT80)	Low	17.21	16.42	19.84
		Middle	/	/	/

		High	/	/	/
U-NII-2C	802.11a	Low	15.69	15.12	/
		Middle	14.89	14.4	/
		High	15.55	13.82	/
	802.11n(HT20)	Low	15.66	15.40	18.54
		Middle	14.99	13.96	17.52
		High	16.82	14.13	18.69
	802.11n(HT40)	Low	15.88	16.31	19.11
		Middle	15.20	15.53	18.38
		High	15.81	14.11	18.05
	802.11ac(HT20)	Low	15.75	15.11	18.45
		Middle	15.54	13.97	17.84
		High	15.81	13.99	18.00
	802.11ac(HT40)	Low	15.55	16.03	18.81
		Middle	15.20	15.90	18.57
		High	15.81	14.59	18.25
	802.11ac(HT80)	Low	15.60	15.74	18.68
		Middle	/	/	/
		High	15.72	15.22	18.49
U-NII-3	802.11a	Low	15.84	15.18	/
		Middle	15.71	14.40	/
		High	15.54	14.99	/
	802.11n(HT20)	Low	15.94	14.95	18.48
		Middle	15.94	14.22	18.17
		High	16.13	14.86	18.55
	802.11n(HT40)	Low	16.46	15.52	19.03
		Middle	/	/	/
		High	16.43	14.72	18.67
	802.11ac(HT20)	Low	15.97	14.95	18.50
		Middle	16.23	14.33	18.39
		High	16.10	14.99	18.59
	802.11ac(HT40)	Low	17.12	15.06	19.22
		Middle	/	/	/
		High	16.42	14.74	18.67
	802.11ac(HT80)	Low	17.13	15.05	19.22
		Middle	/	/	/
		High	/	/	/

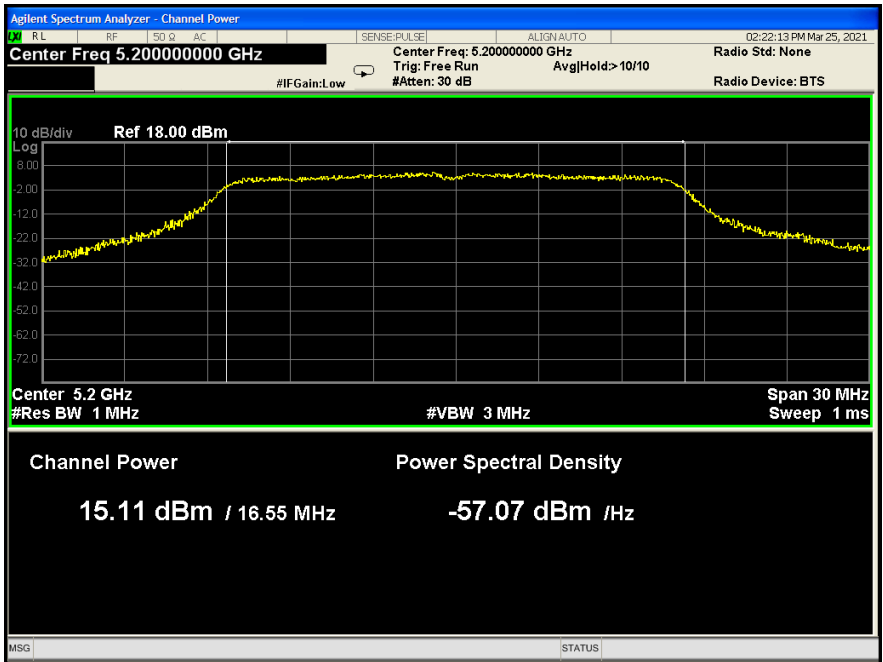
* All transmit signals are completely uncorrelated with each other, Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows: Antenna 0

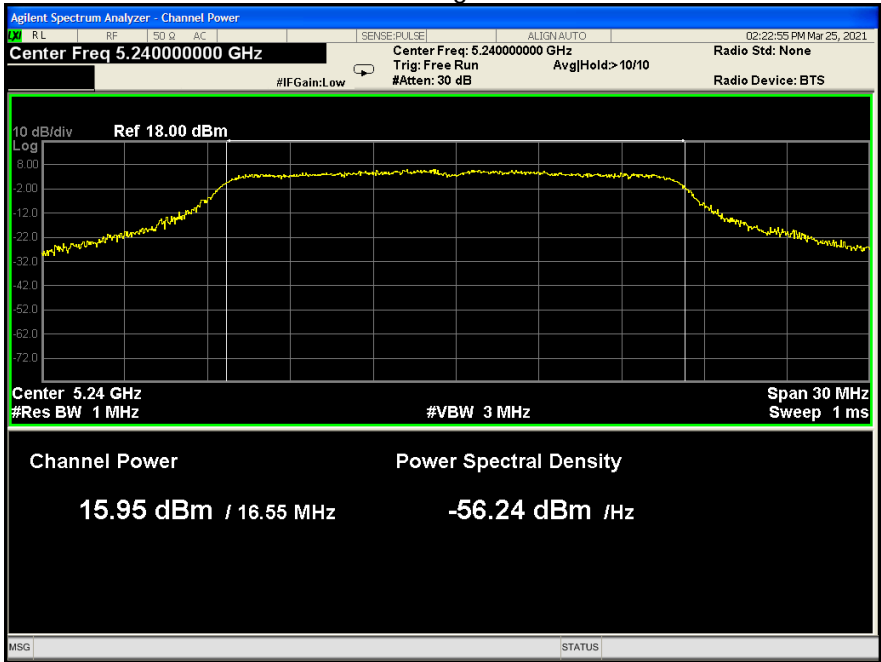
802.11a U-NII-1 Low channel



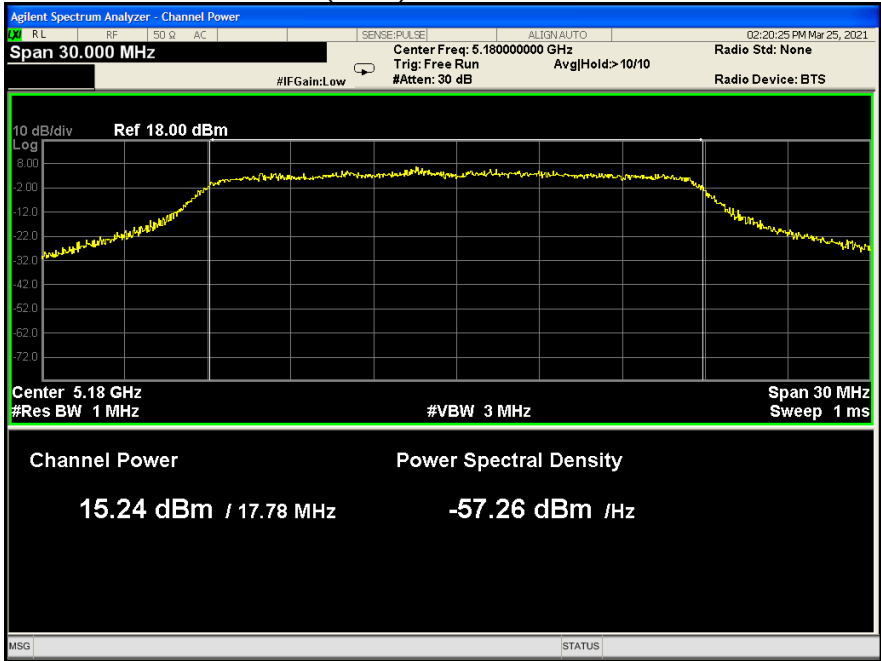
802.11a U-NII-1 Middle channel



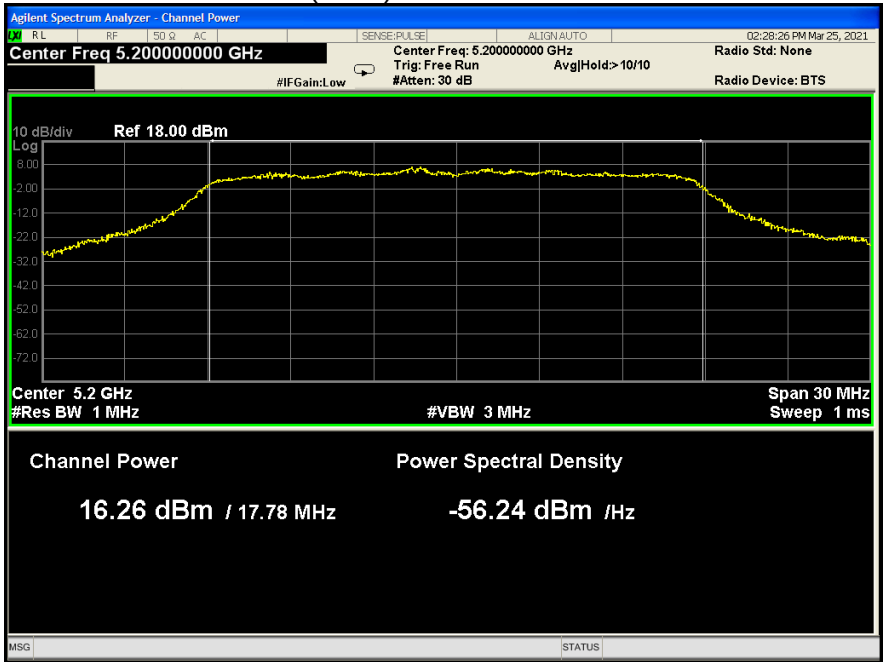
802.11a U-NII-1 High channel



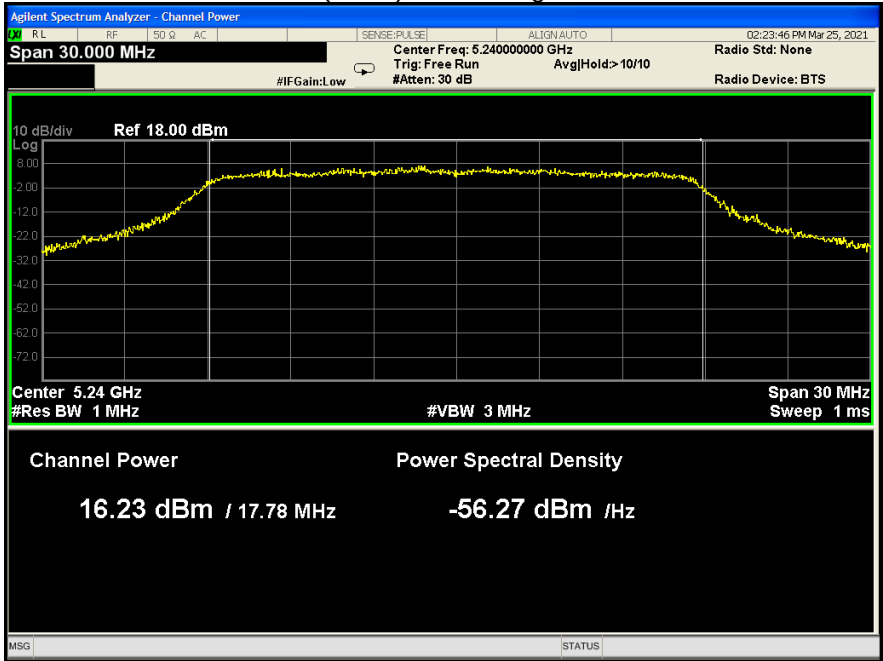
802.11n(HT20) U-NII-1 Low channel



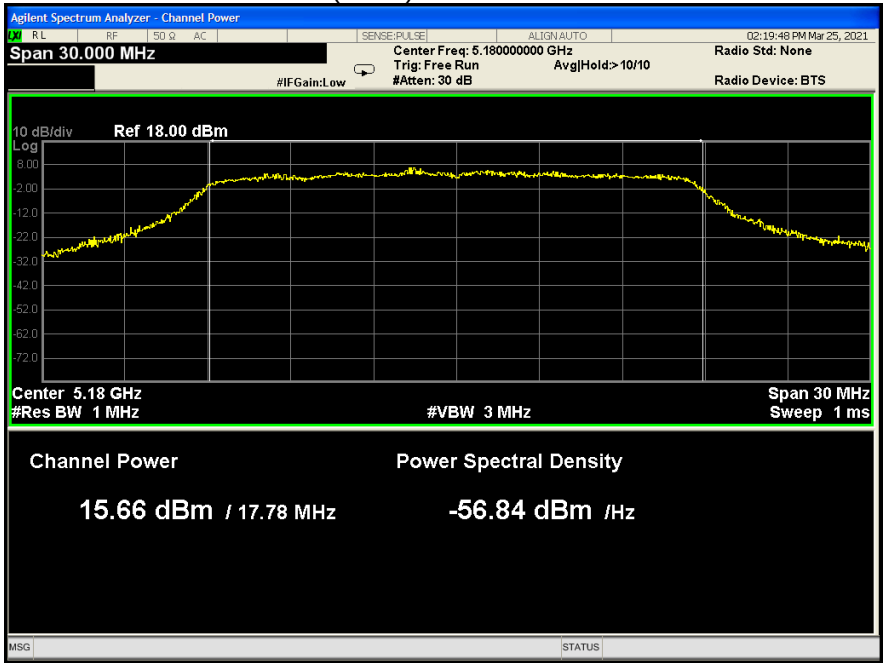
802.11n(HT20) U-NII-1 Middle channel



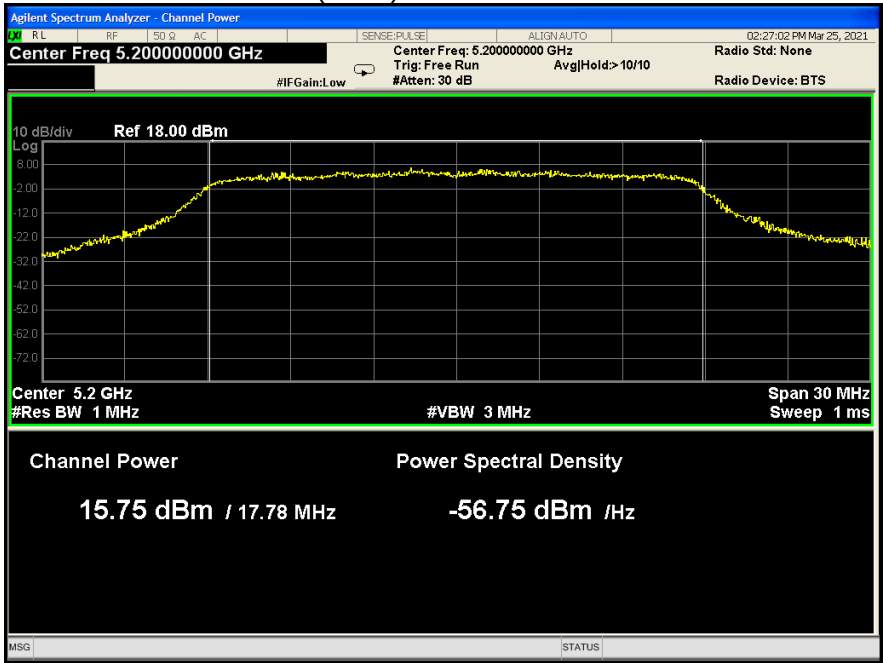
802.11n(HT20) U-NII-1 High channel



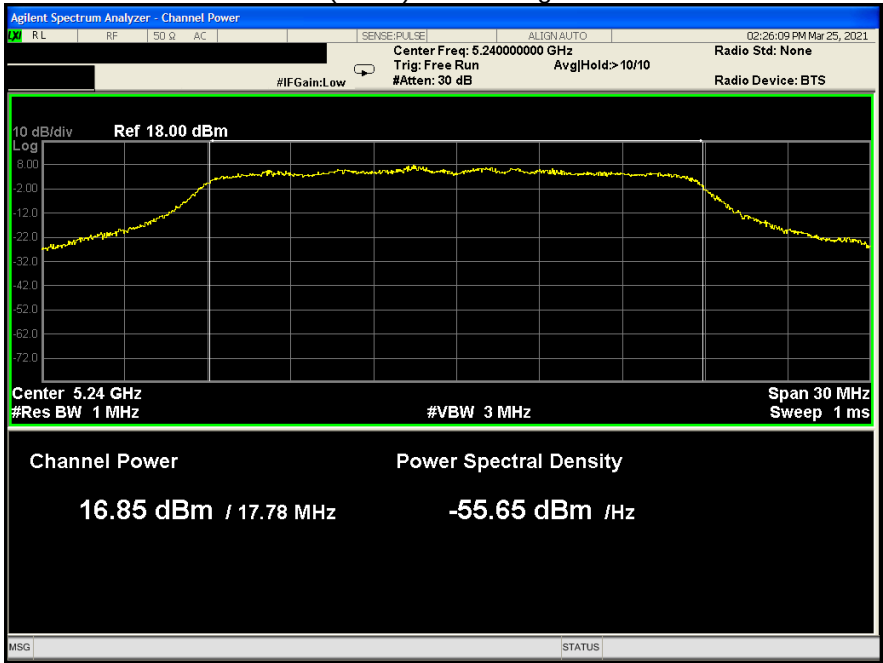
802.11ac(HT20) U-NII-1 Low channel



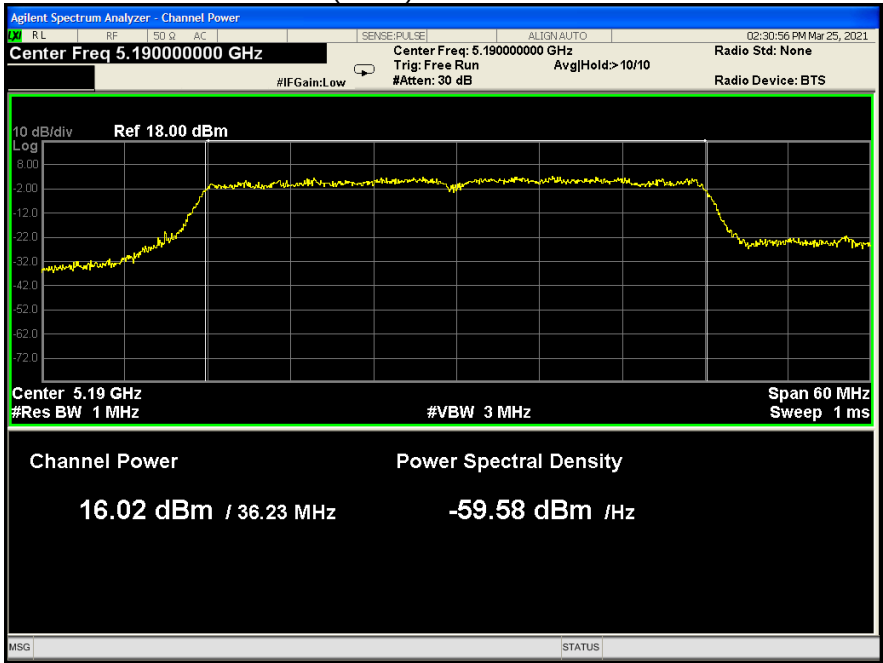
802.11ac(HT20) U-NII-1 Middle channel



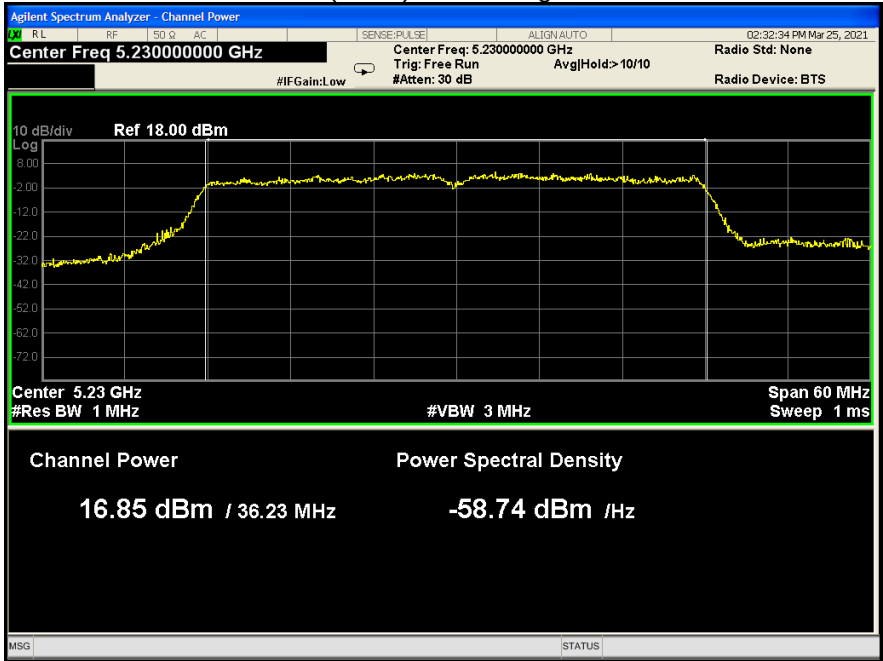
802.11ac(HT20) U-NII-1 High channel



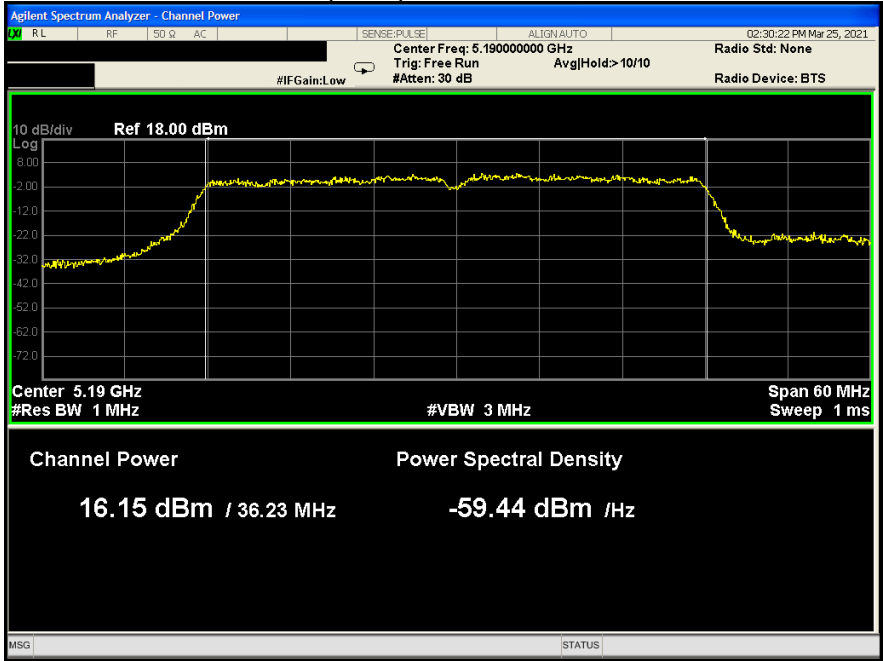
802.11ac(HT40) U-NII-1 Low channel



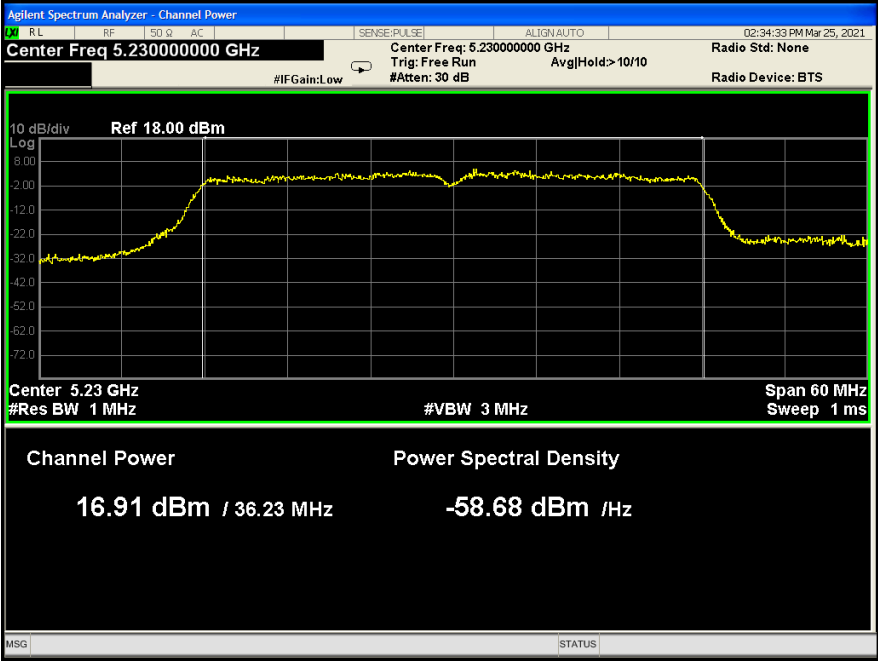
802.11ac(HT40) U-NII-1 High channel



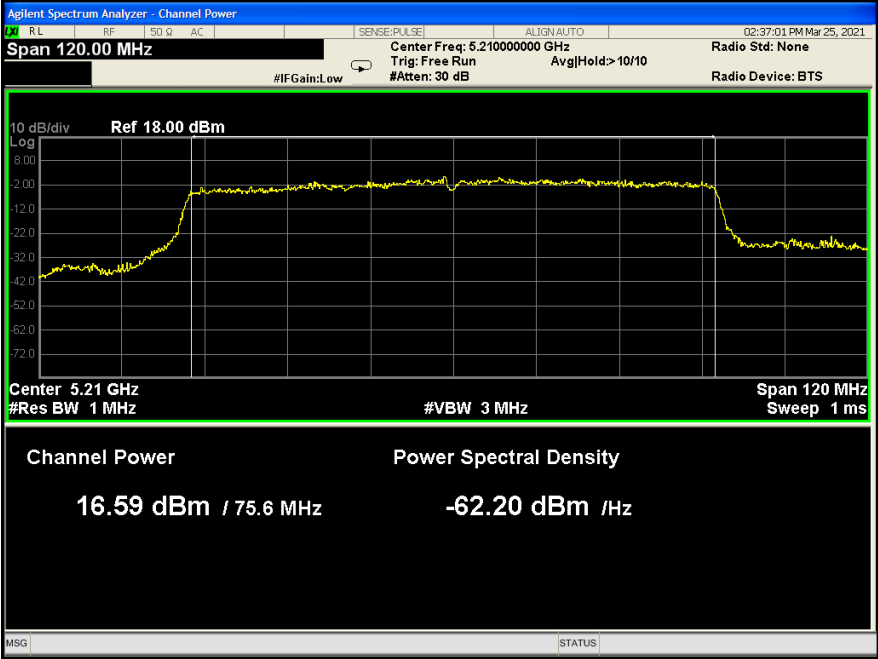
802.11n(HT40) U-NII-1 Low channel



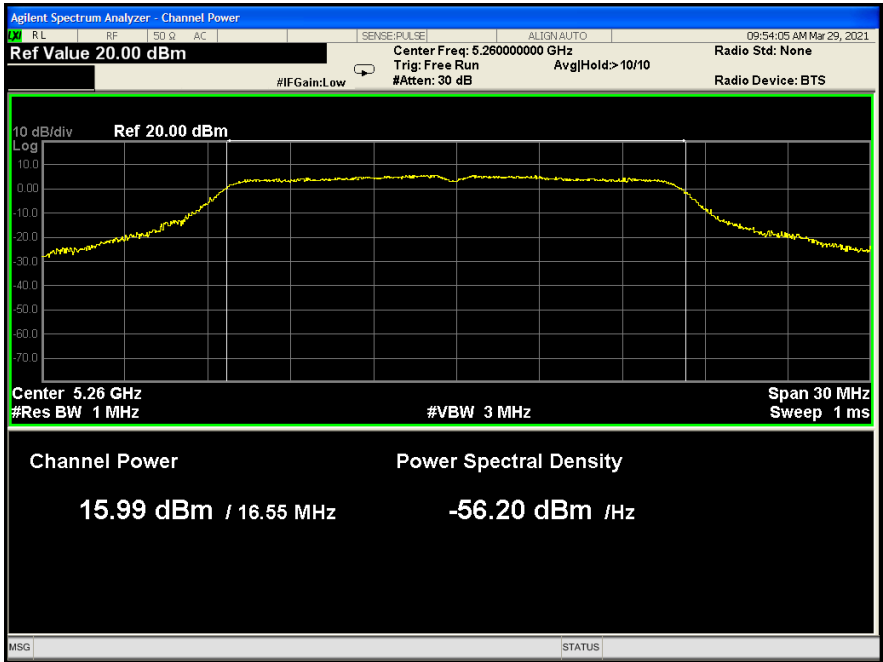
802.11n(HT40) U-NII-1 High channel



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



802.11a U-NII-2A Low channel



802.11a U-NII-2A Middle channel

