

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	99.68%	0
802.11n HT20	5180	99.47%	0
802.11n HT40	5190	99.20%	0
802.11ac VHT20	5180	99.50%	0
802.11ac VHT40	5190	99.01%	0
802.11ac VHT80	5210	98.44%	0

Note: Correction Factor=10*log (1/Duty Cycle)

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	16.89	15.23
802.11a	NA	5220	Chain0	16.16	14.50
802.11a	NA	5240	Chain0	15.99	14.33
802.11n HT20	NA	5180	Chain0	17.15	15.49
802.11n HT20	NA	5220	Chain0	16.35	14.69
802.11n HT20	NA	5240	Chain0	16.25	14.59
802.11n HT40	NA	5190	Chain0	15.75	14.09
802.11n HT40	NA	5230	Chain0	15.34	13.68
802.11ac VHT20	NA	5180	Chain0	15.21	13.55
802.11ac VHT20	NA	5220	Chain0	14.35	12.69
802.11ac VHT20	NA	5240	Chain0	14.18	12.52
802.11ac VHT40	NA	5190	Chain0	14.09	12.43
802.11ac VHT40	NA	5230	Chain0	13.69	12.03
802.11ac VHT80	NA	5210	Chain0	12.69	11.03

Emission Bandwidth

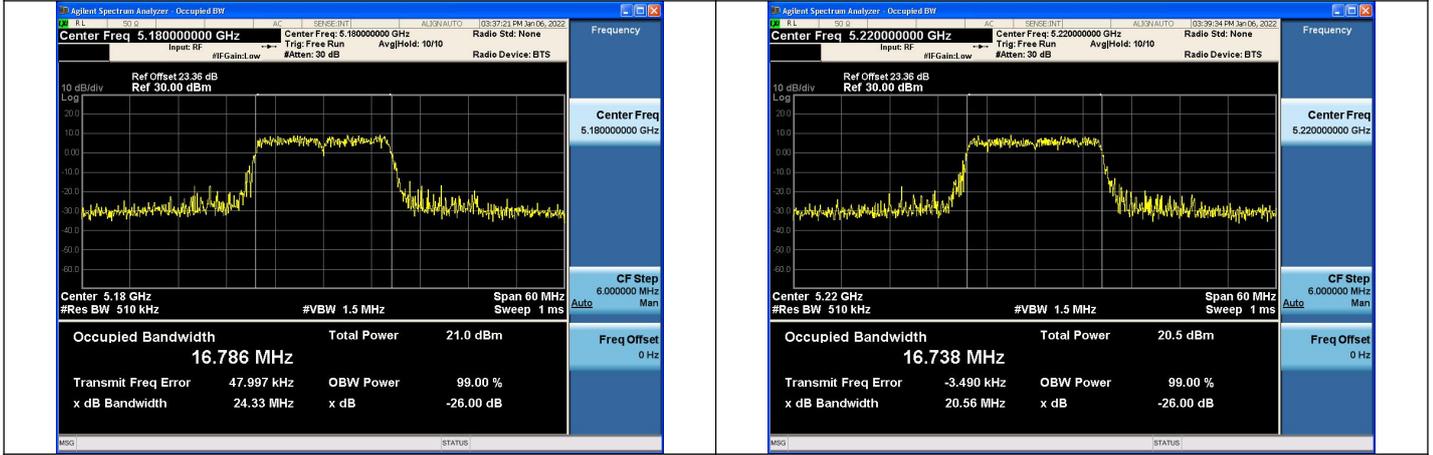
Offset 23.36 dB = Attenuator 20 dB + Temporary antenna connector loss 0.2 dB + Cable loss 3.16 dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554 5180MHz	Channel No.562 5220MHz	Channel No.566 5240MHz
802.11a	Chain0	24.33	20.56	24.98
802.11n HT20	Chain0	24.34	28.76	24.78
802.11ac VHT20	Chain0	24.99	23.47	23.50

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556 5190MHz	---	Channel No.564 5230MHz
802.11n HT40	Chain0	39.91	---	41.47
802.11ac VHT40	Chain0	48.76	---	44.53

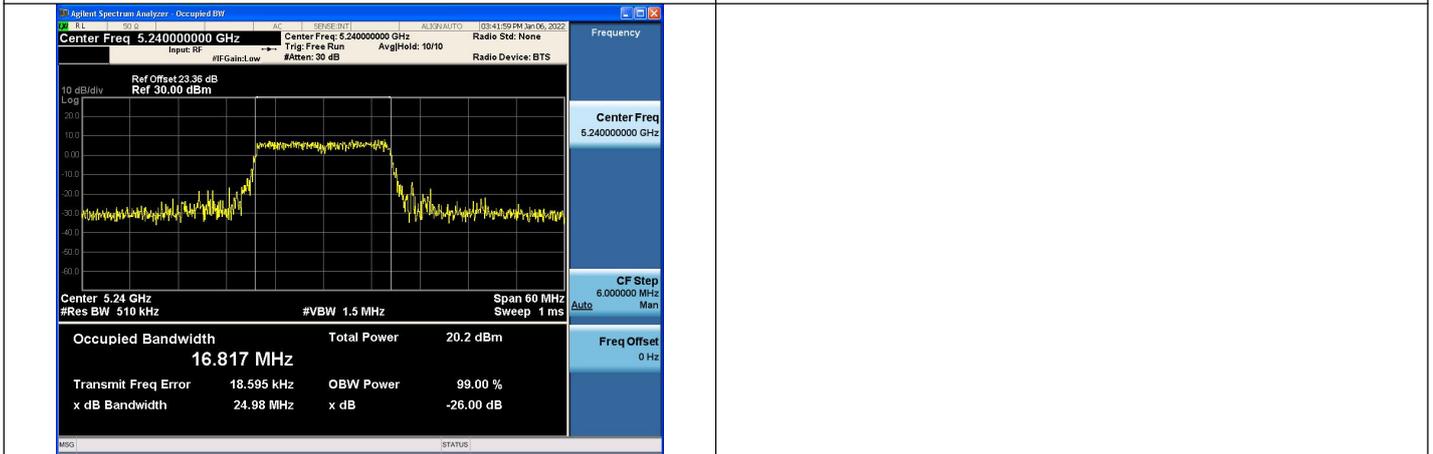
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	85.51	---	---

Test Mode: 802.11a



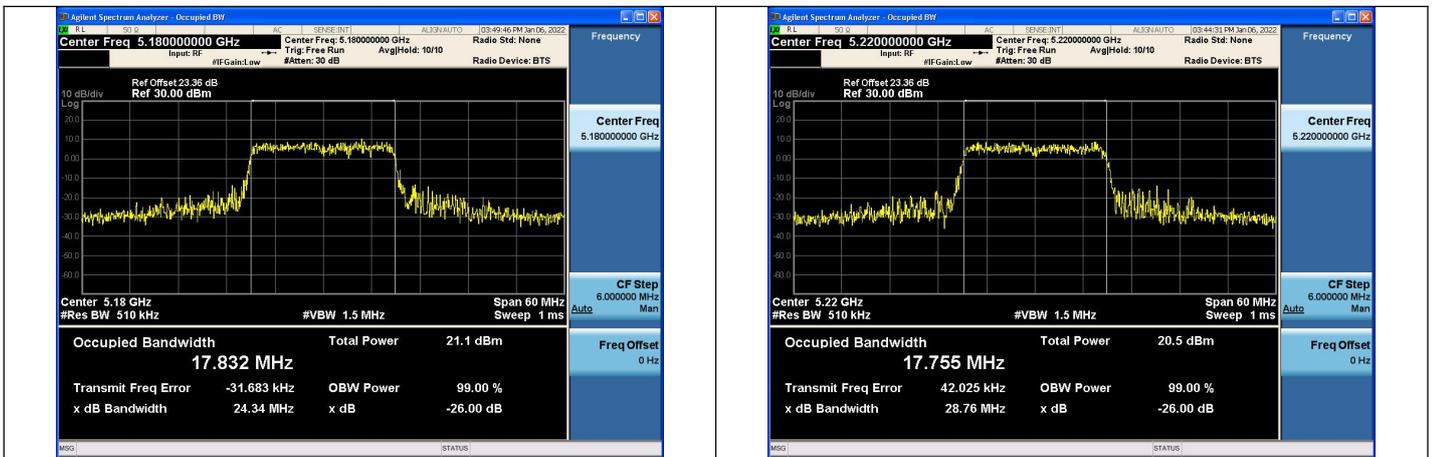
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0



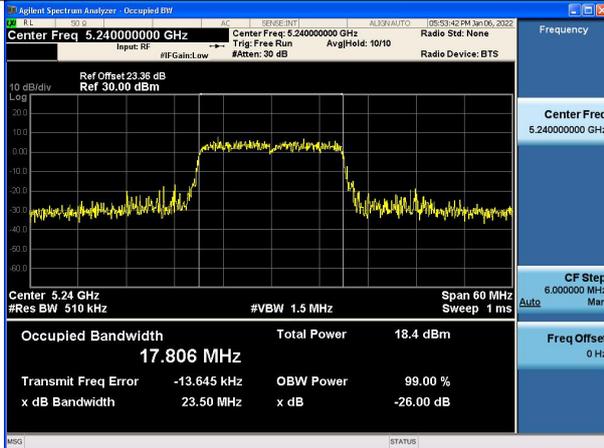
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Test Mode: 802.11n HT20



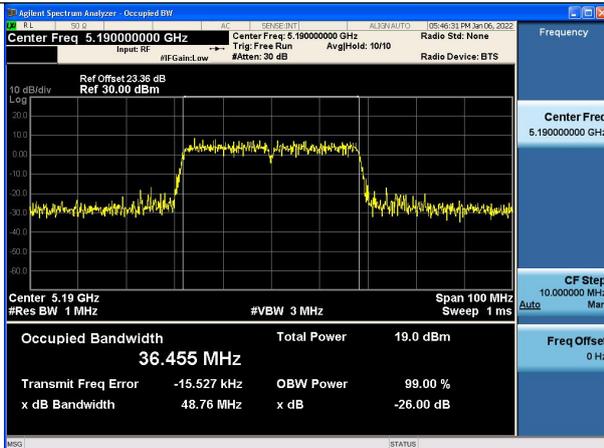
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Test Mode:802.11n HT20 5220MHz Chain0



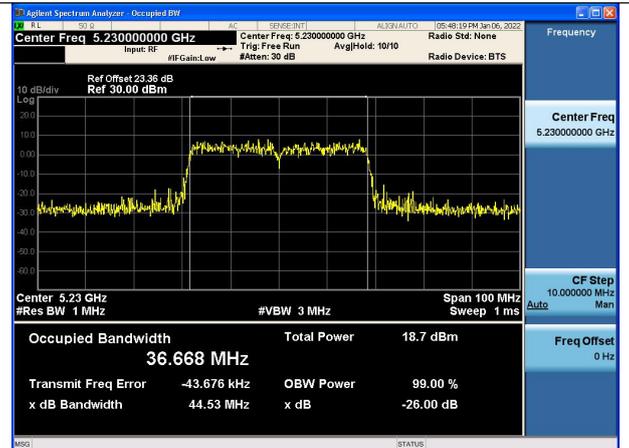
Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11ac VHT40

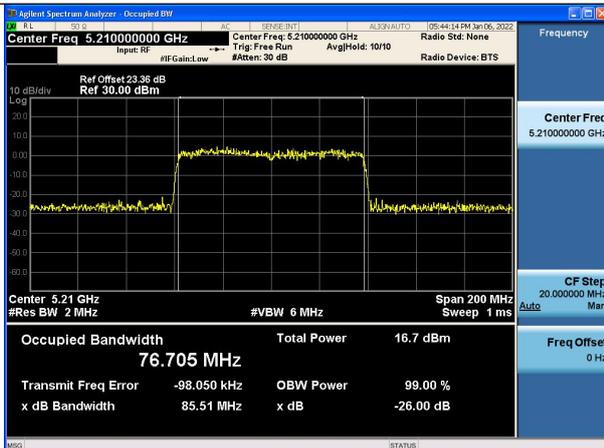


Test Mode:802.11ac VHT40 5190MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5230MHz Chain0



Test Mode:802.11ac VHT80 5210MHz Chain0

Occupied Bandwidth

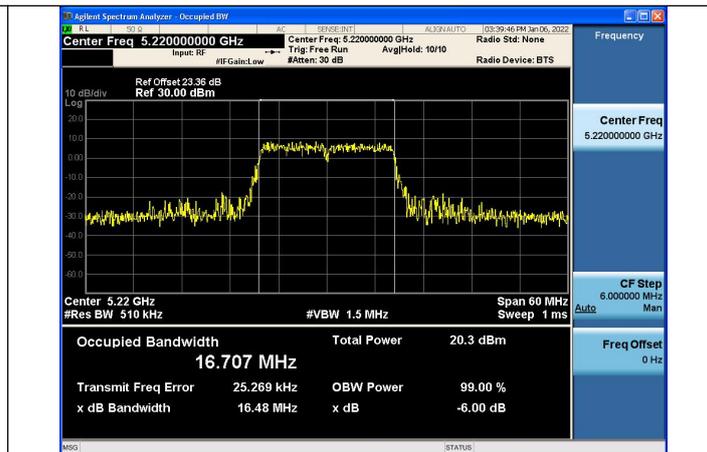
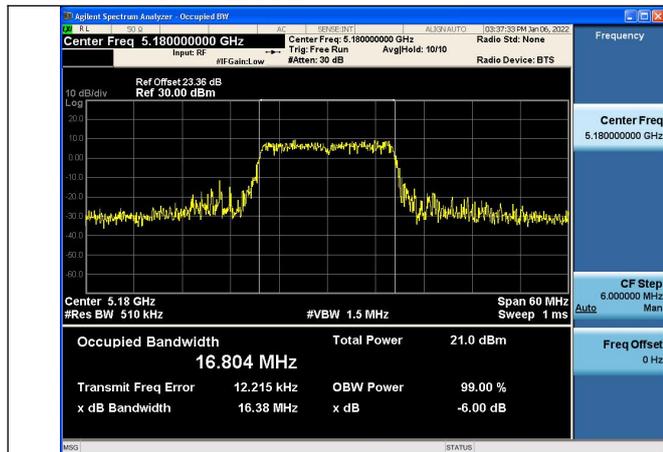
Offset 23.36 dB = Attenuator 20 dB + Temporary antenna connector loss 0.2 dB + Cable loss 3.16 dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.804	16.707	16.628
802.11n HT20	Chain0	17.867	17.782	17.769
802.11ac VHT20	Chain0	17.833	17.654	17.742

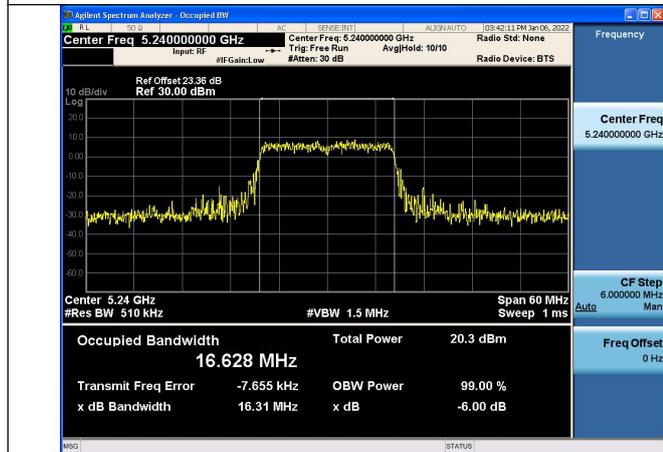
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.634	---	36.588
802.11ac VHT40	Chain0	36.586	---	36.471

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	76.887	---	---

Test Mode: 802.11a



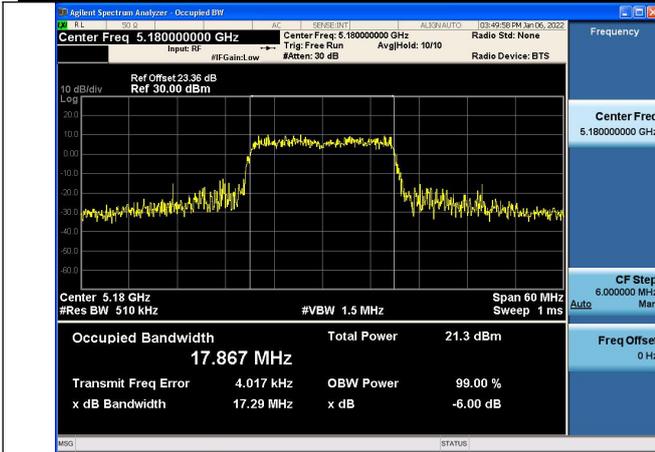
Test Mode: 802.11a 5180MHz Chain0



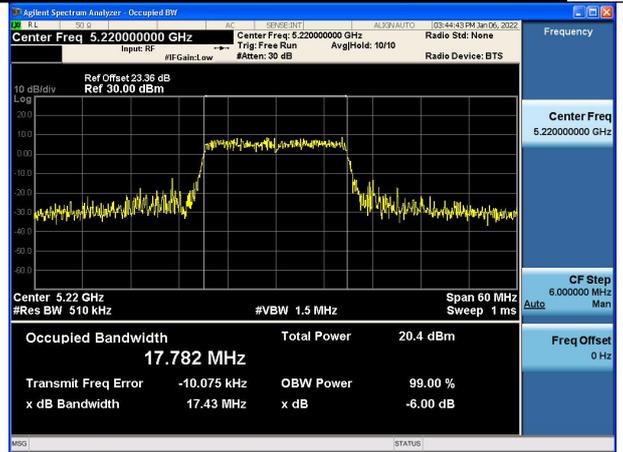
Test Mode: 802.11a 5220MHz Chain0

Test Mode: 802.11a 5240MHz Chain0

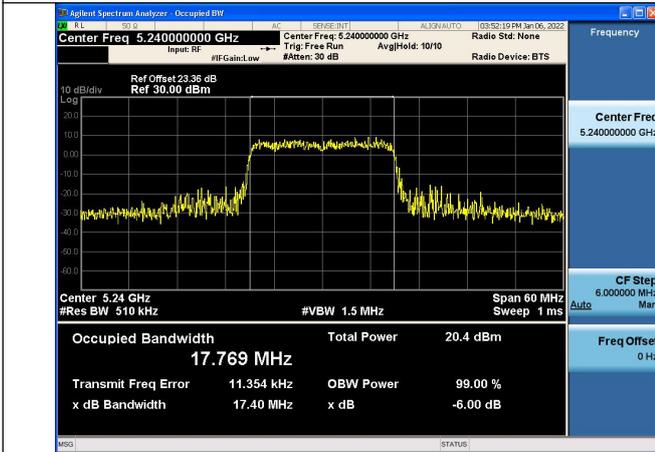
Test Mode: 802.11n HT20



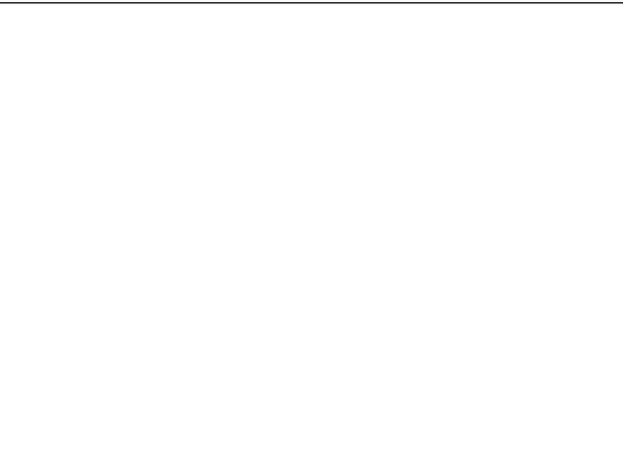
Test Mode:802.11n HT20 5180MHz Chain0



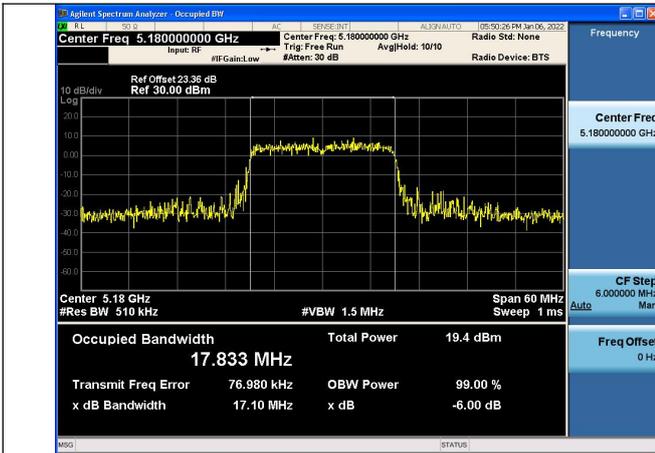
Test Mode:802.11n HT20 5220MHz Chain0



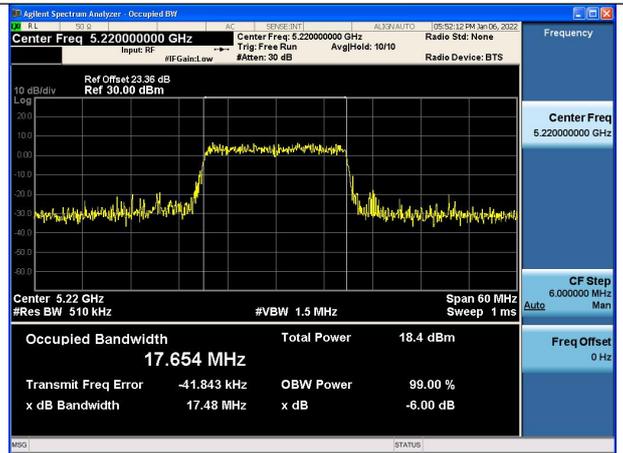
Test Mode:802.11n HT20 5240MHz Chain0



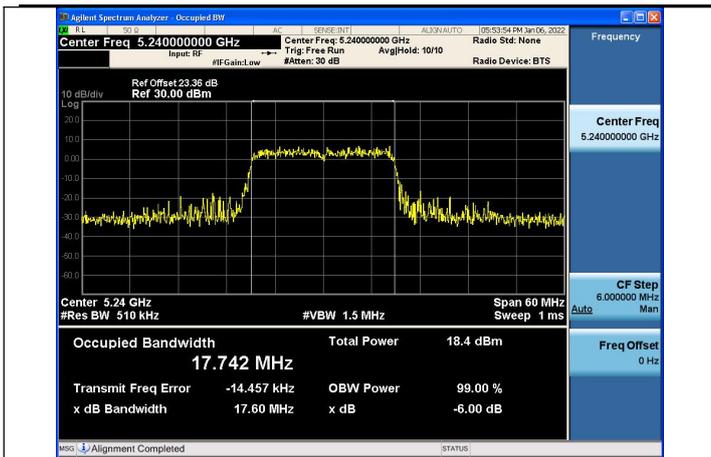
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

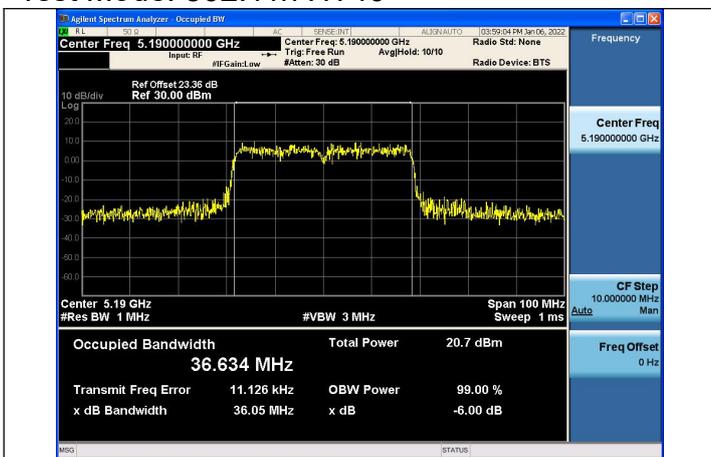


Test Mode:802.11ac VHT20 5220MHz Chain0

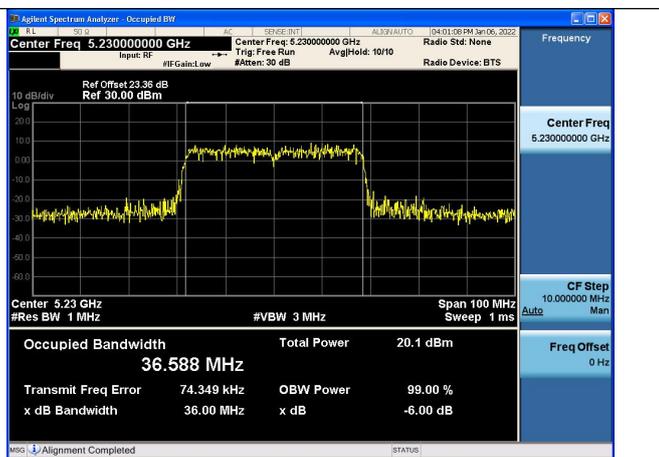


Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

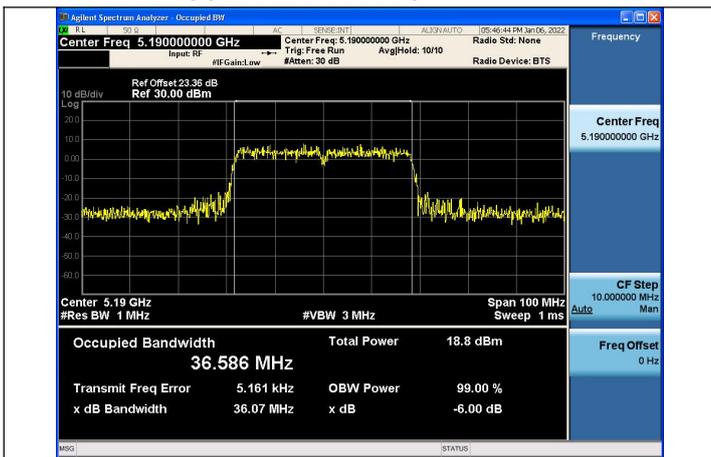


Test Mode:802.11n HT40 5190MHz Chain0

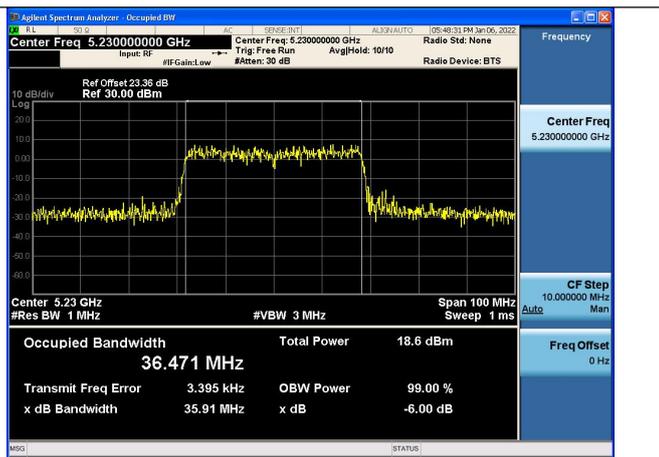


Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

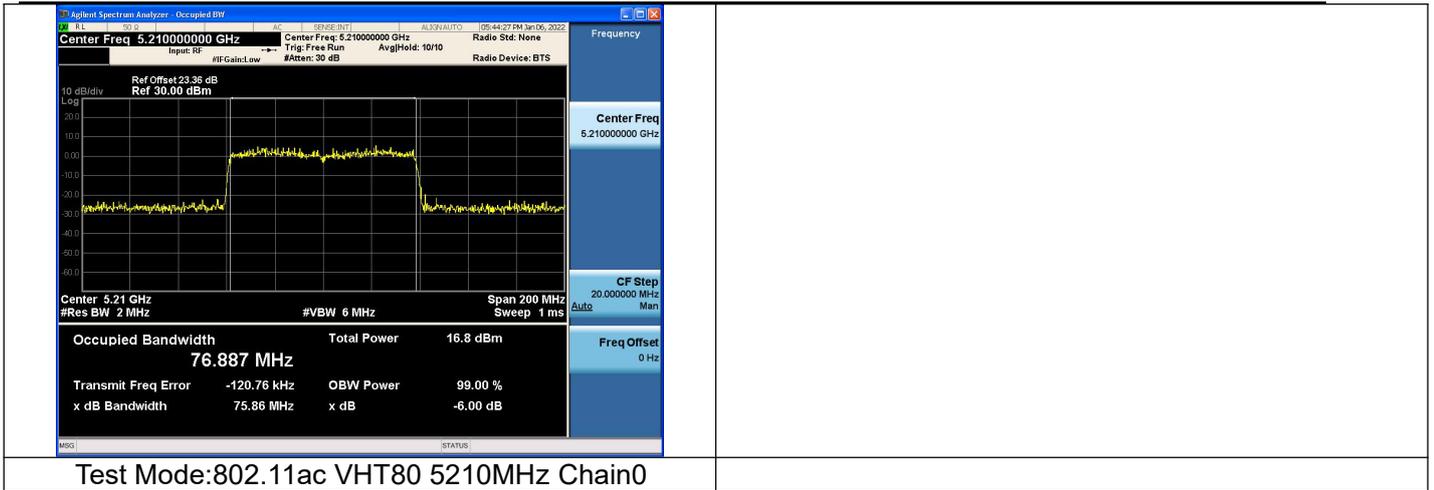


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Transmitter Power Spectral Density

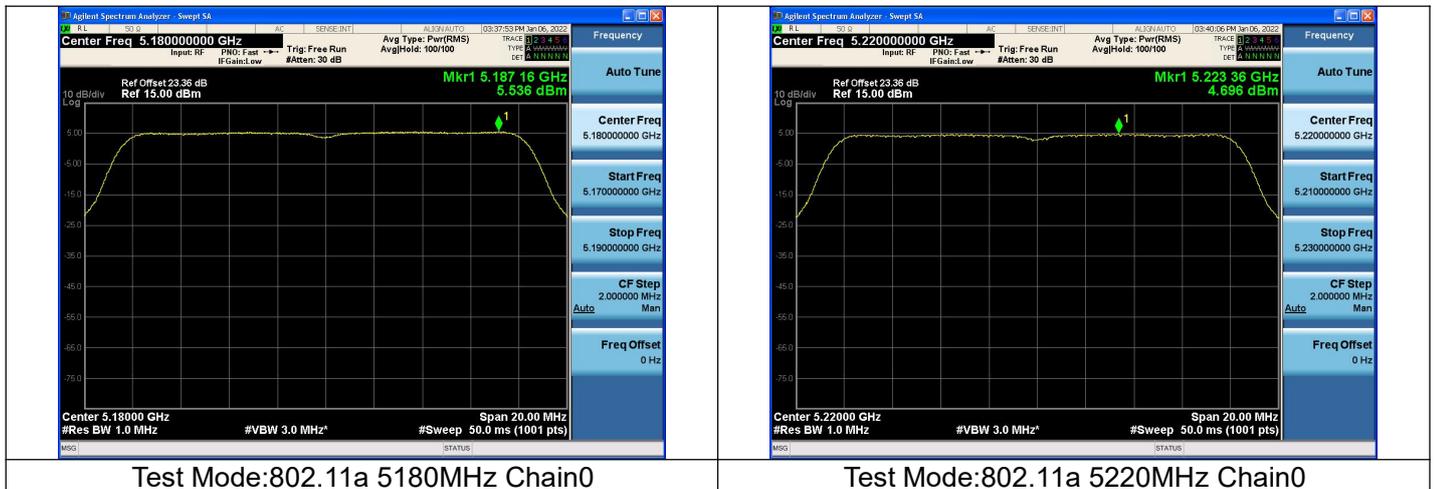
Offset 23.36 dB = Attenuator 20 dB + Temporary antenna connector loss 0.2 dB + Cable loss 3.16 dB

Test Mode	Antenna	5180MHz		5220MHz		5240MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0	5.536	0	4.696	0	4.588
802.11n HT20	Chain0	0	5.664	0	4.699	0	4.604
802.11a c VHT20	Chain0	0	3.703	0	2.704	0	2.591

Test Mode	Antenna	5190MHz		---		5230MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0	1.463	---	---	0	0.740
802.11a c VHT40	Chain0	0	-0.561	---	---	0	-0.669

Test Mode	Antenna	5210MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a c VHT80	Chain0	0	-4.384	---	---	---	---

Test Mode: 802.11a





Test Mode:802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0



Test Mode:802.11n HT20 5220MHz Chain0



Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0



Test Mode:802.11ac VHT20 5220MHz Chain0



Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11ac VHT40

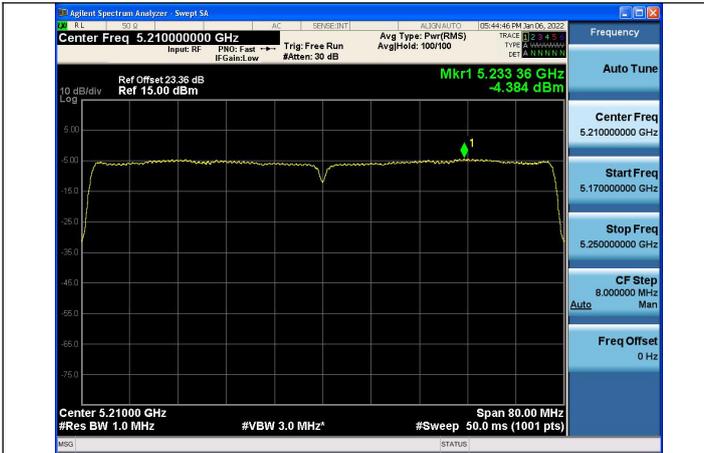


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0