APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	97.54%	0.11
802.11n HT20	5180	97.29%	0.12
802.11n HT40	5190	94.65%	0.24
802.11ac VHT80	5210	90.70%	0.42

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	7.91	7.52
802.11a	NA	5220	Chain0	7.64	7.25
802.11a	NA	5240	Chain0	7.61	7.22
802.11ac VHT80	NA	5210	Chain0	4.63	4.24
802.11n HT20	NA	5180	Chain0	8.00	7.61
802.11n HT20	NA	5220	Chain0	7.79	7.40
802.11n HT20	NA	5240	Chain0	7.74	7.35
802.11n HT40	NA	5190	Chain0	7.35	6.96
802.11n HT40	NA	5230	Chain0	7.13	6.74

Emission Bandwidth

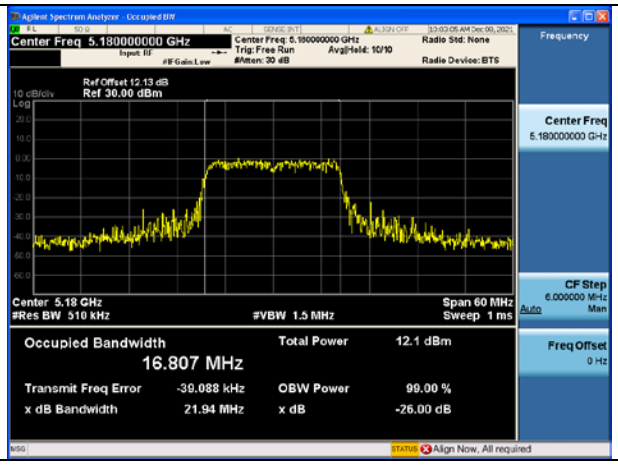
Offset 12.13dB = Attenuator10dB + Temporary antenna connector loss0.5dB + Cable loss1.63dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	21.94	23.86	21.69
802.11n HT20	Chain0	28.87	29.71	21.89

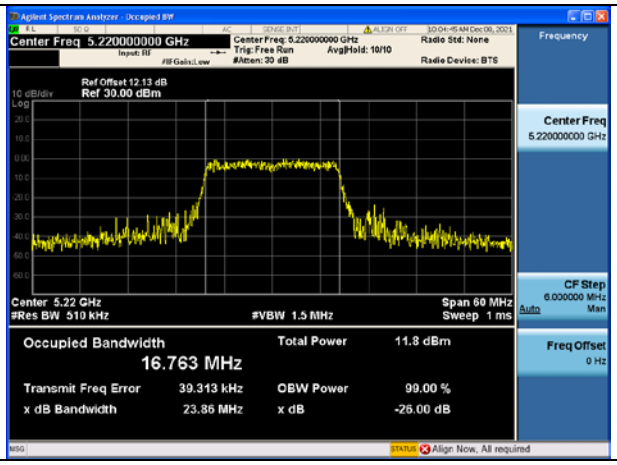
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	41.73	---	39.04

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	87.27	---	---

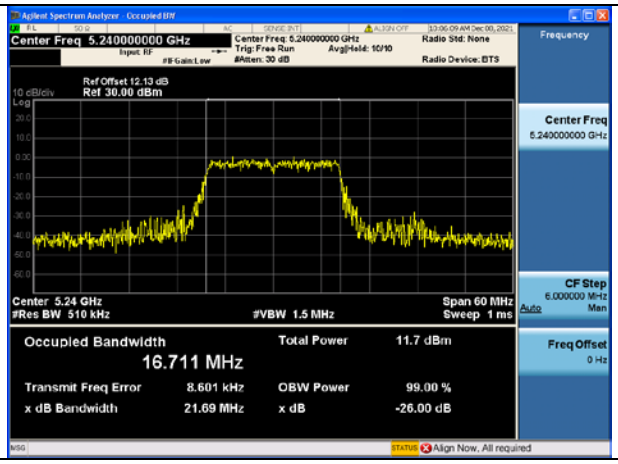
Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

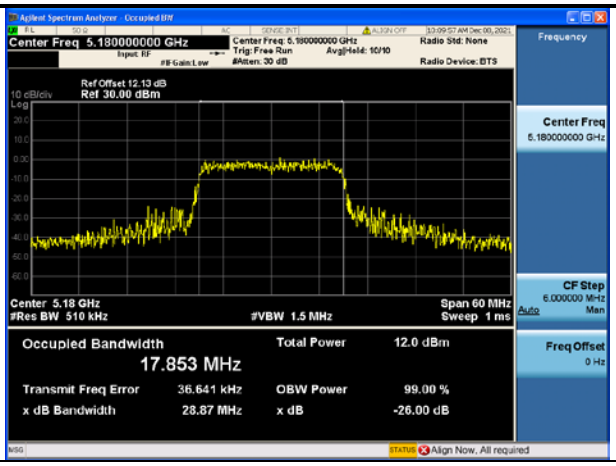


Test Mode:802.11a 5220MHz Chain0

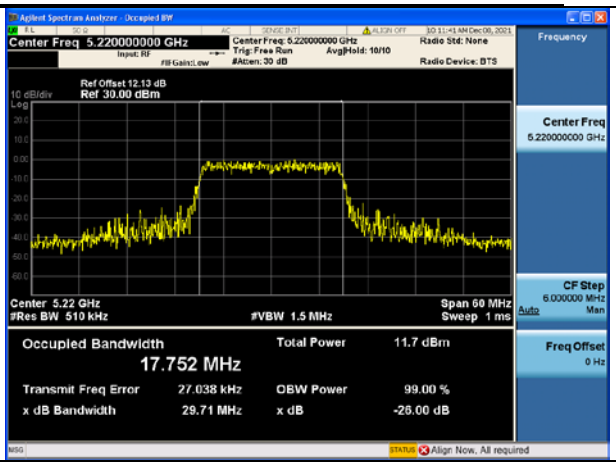


Test Mode:802.11a 5240MHz Chain0

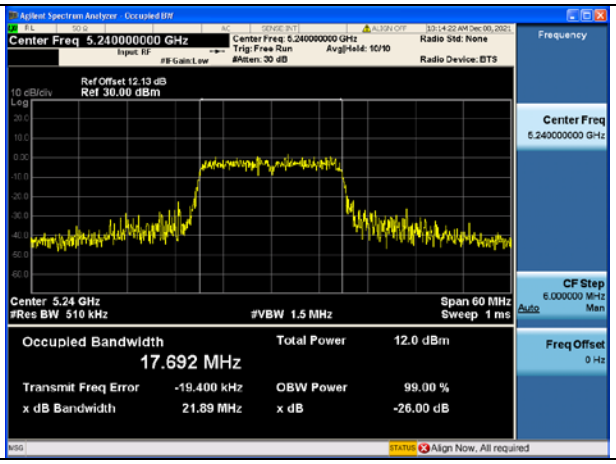
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

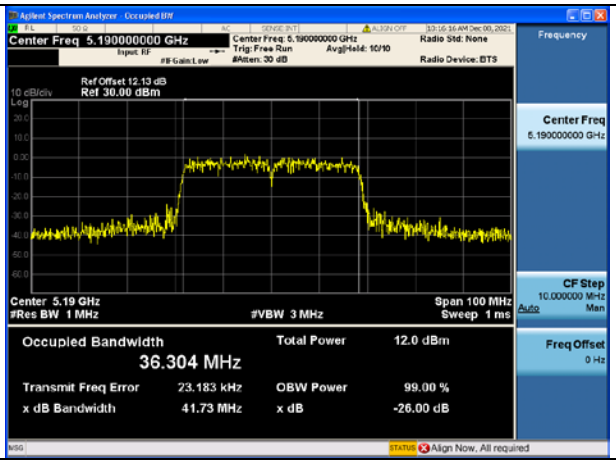


Test Mode:802.11n HT20 5220MHz Chain0

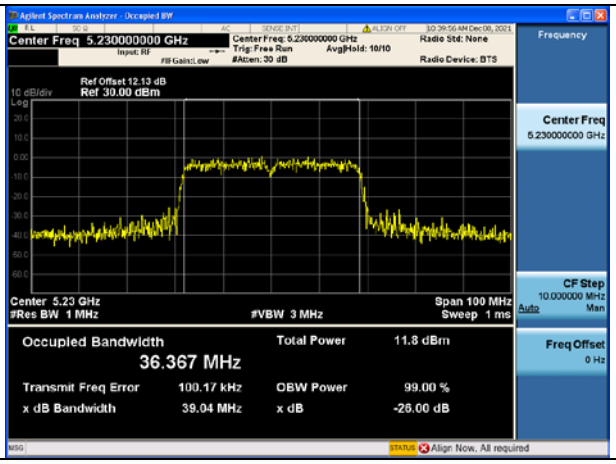


Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11n HT40

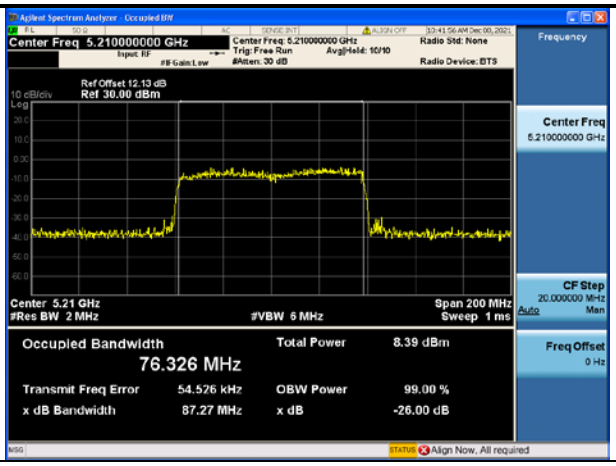


Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0

Occupied Bandwidth

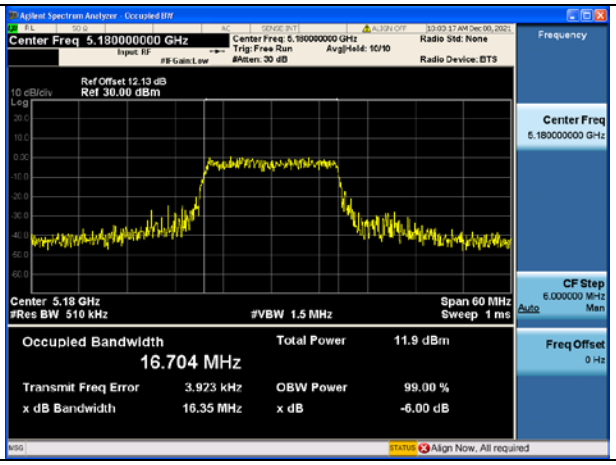
Offset 12.13dB = Attenuator10dB + Temporary antenna connector loss0.5dB + Cable loss1.63dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.704	16.664	16.619
802.11n HT20	Chain0	17.760	17.776	17.712

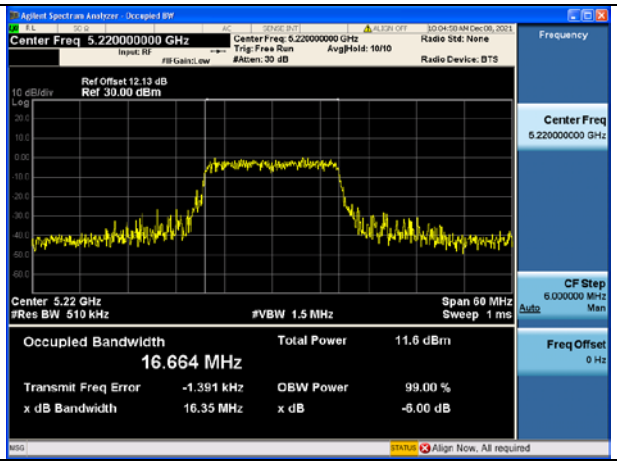
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.294	---	36.228

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	76.267	---	---

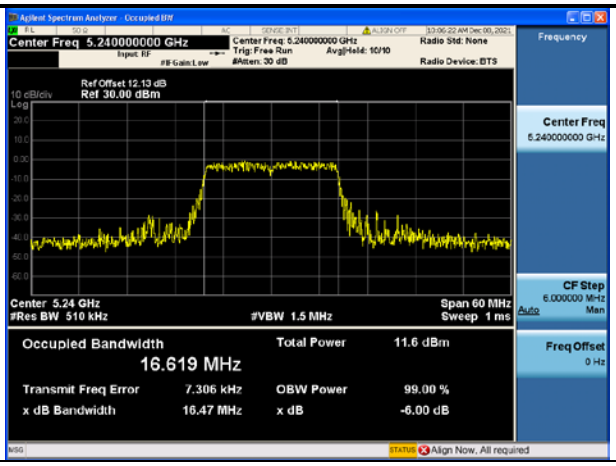
Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

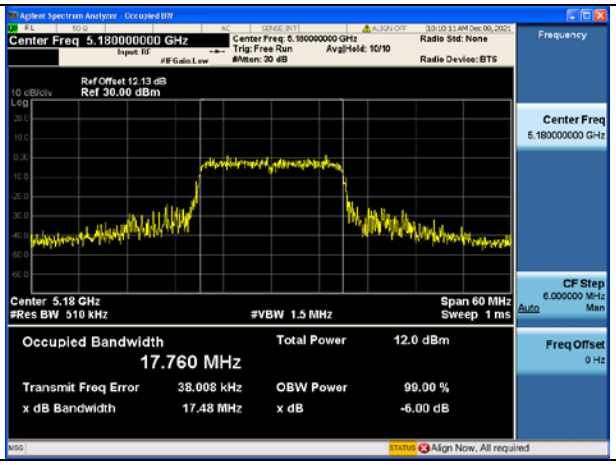


Test Mode:802.11a 5220MHz Chain0

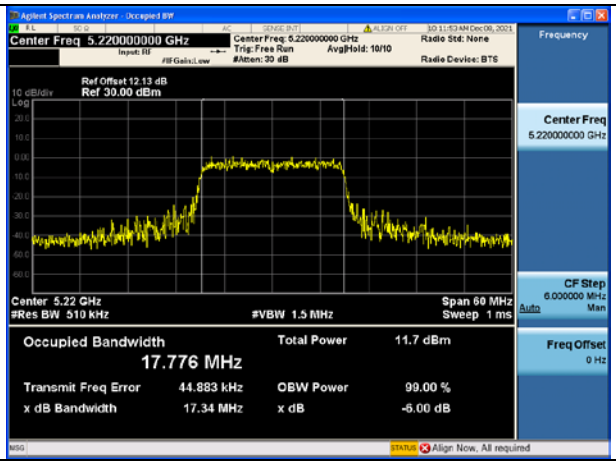


Test Mode:802.11a 5240MHz Chain0

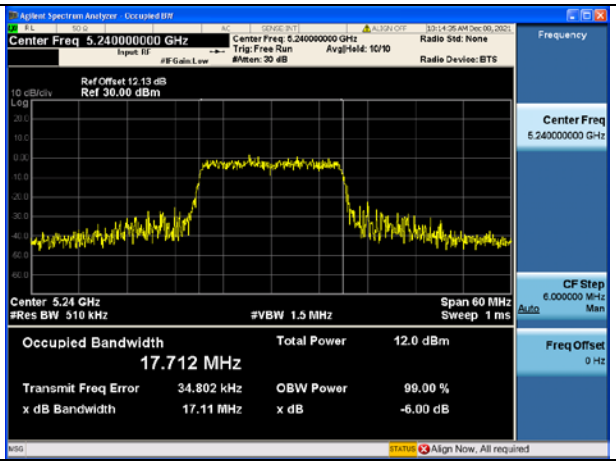
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

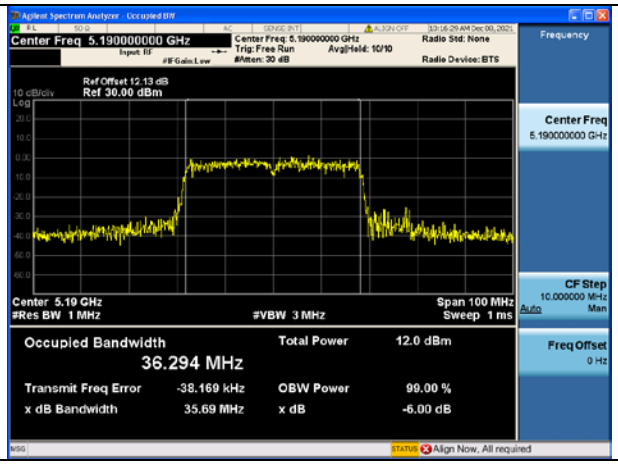


Test Mode:802.11n HT20 5220MHz Chain0

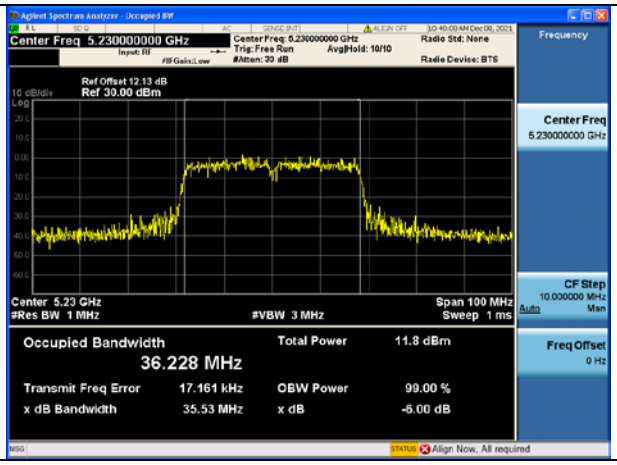


Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11n HT40

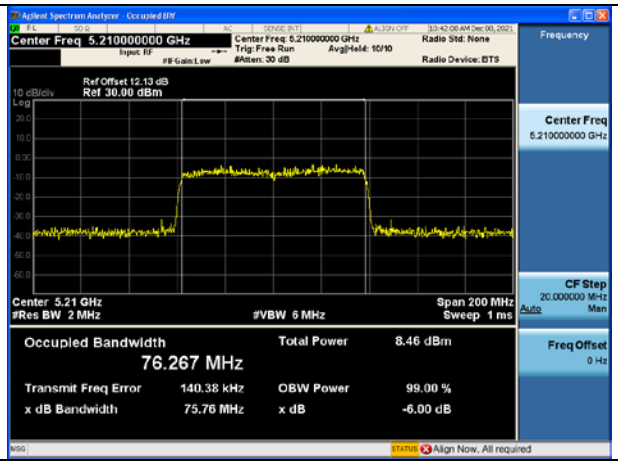


Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0

Transmitter Power Spectral Density

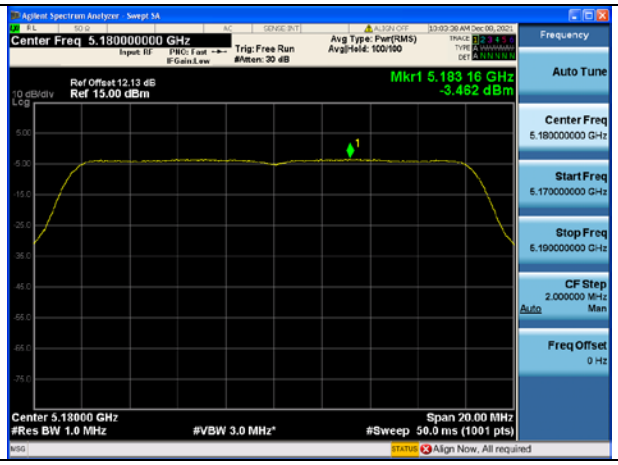
Offset 12.13dB = Attenuator10dB + Temporary antenna connector loss0.5dB + Cable loss1.63dB

Test Mode	Antenna	5180MHz		5220MHz		5240MHz	
		Correction Factor(dB)	Power Density (dBm/MkHz)	Correction Factor(dB)	Power Density (dBm/MkHz)	Correction Factor(dB)	Power Density (dBm/MkHz)
802.11a	Chain0	0.11	-3.462	0.11	-3.638	0.11	-3.717
802.11n HT20	Chain0	0.12	-3.584	0.12	-3.711	0.12	-3.747

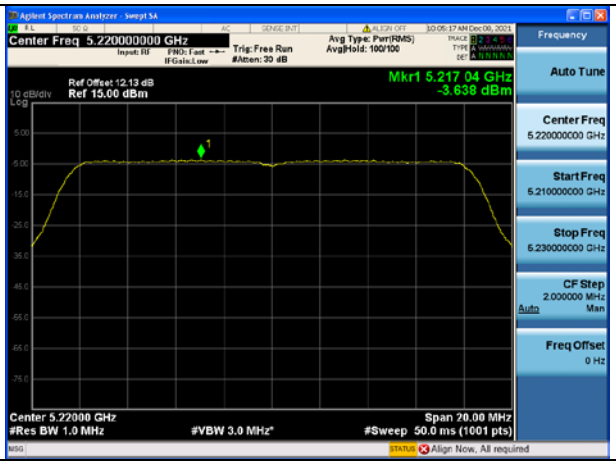
Test Mode	Antenna	5190MHz		---		5230MHz	
		Correction Factor(dB)	Power Density (dBm/MkHz)	Correction Factor(dB)	Power Density (dBm/MkHz)	Correction Factor(dB)	Power Density (dBm/MkHz)
802.11n HT40	Chain0	0.24	-6.712	---	---	0.24	-6.771

Test Mode	Antenna	5210MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/MkHz)	Correction Factor(dB)	Power Density (dBm/MkHz)	Correction Factor(dB)	Power Density (dBm/MkHz)
802.11ac VHT80	Chain0	0.42	-12.080	---	---	---	---

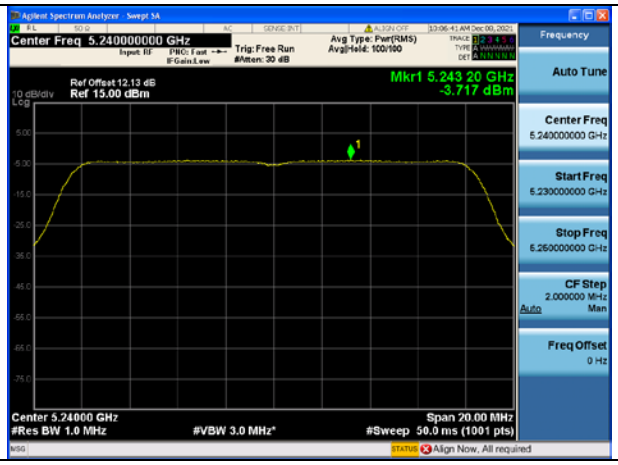
Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

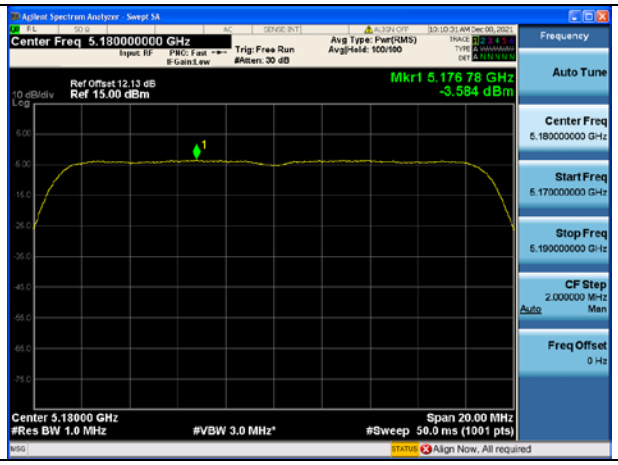


Test Mode:802.11a 5220MHz Chain0

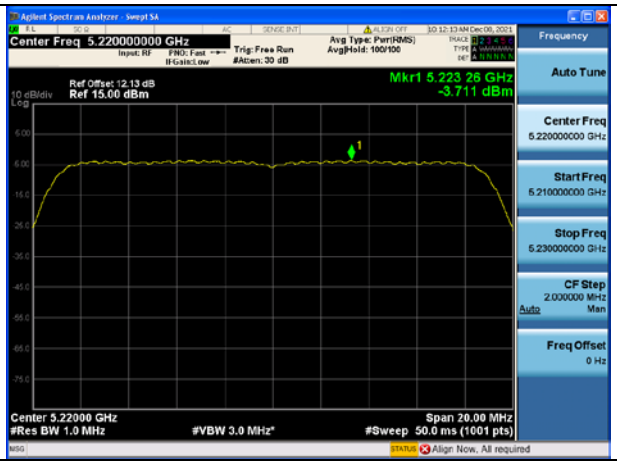


Test Mode:802.11a 5240MHz Chain0

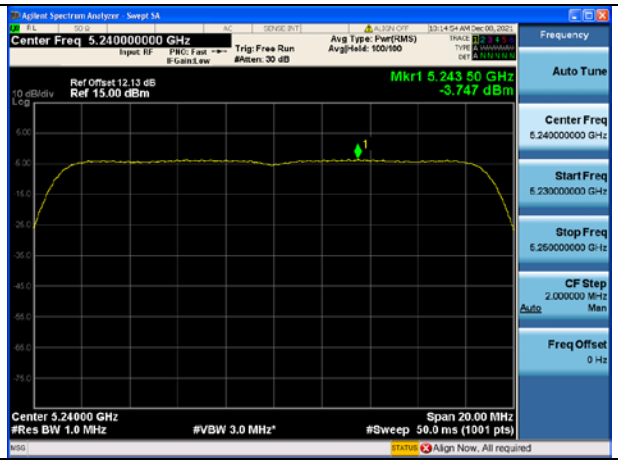
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

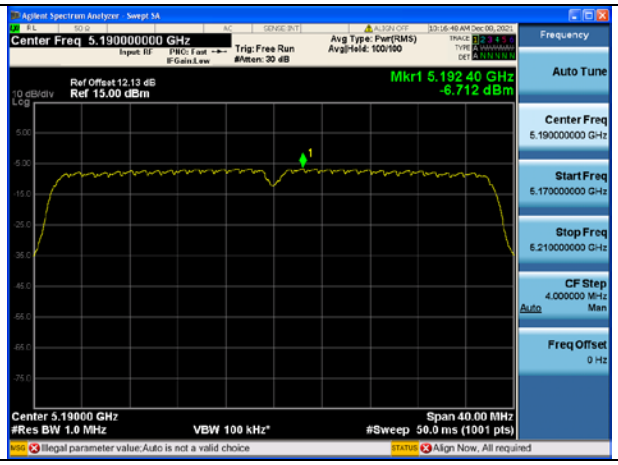


Test Mode:802.11n HT20 5220MHz Chain0

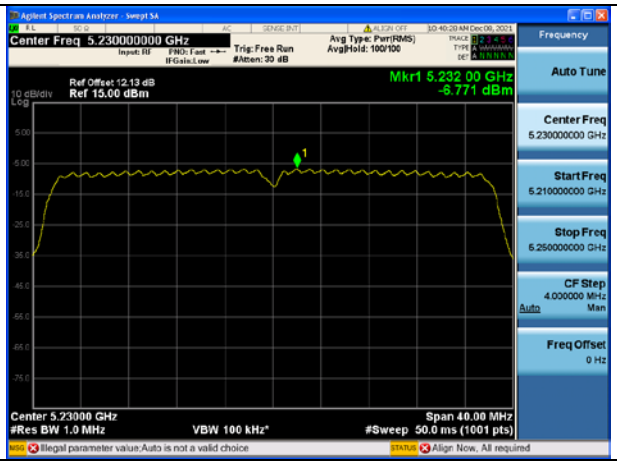


Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11n HT40

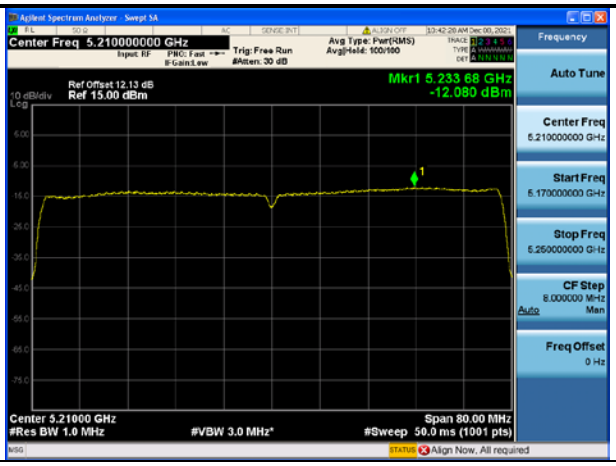


Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT80

	
Test Mode:802.11ac VHT80 5210MHz Chain0	