

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	99.52%	0
802.11n HT20	5180	99.42%	0
802.11ac VHT20	5180	99.39%	0
802.11n HT40	5190	98.74%	0
802.11ac VHT40	5190	98.82%	0
802.11ac VHT80	5210	97.60%	0.11

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	11.61	9.31
802.11a	NA	5220	Chain0	11.60	9.30
802.11a	NA	5240	Chain0	11.77	9.47
802.11ac VHT20	NA	5180	Chain0	11.44	9.14
802.11ac VHT20	NA	5220	Chain0	11.42	9.12
802.11ac VHT20	NA	5240	Chain0	11.60	9.30
802.11ac VHT40	NA	5190	Chain0	11.83	9.53
802.11ac VHT40	NA	5230	Chain0	11.80	9.50
802.11ac VHT80	NA	5210	Chain0	11.53	9.23
802.11n HT20	NA	5180	Chain0	11.54	9.24
802.11n HT20	NA	5220	Chain0	11.43	9.13
802.11n HT20	NA	5240	Chain0	11.59	9.29
802.11n HT40	NA	5190	Chain0	11.79	9.49
802.11n HT40	NA	5230	Chain0	11.71	9.41

Emission Bandwidth

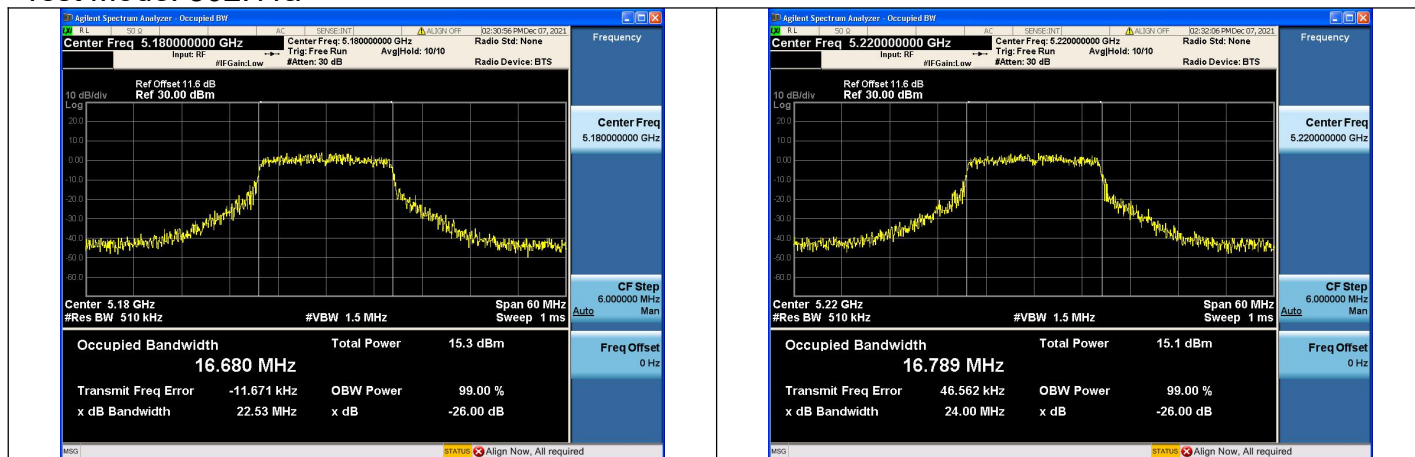
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	22.53	24.00	23.13
802.11n HT20	Chain0	24.15	23.18	23.01
802.11ac VHT20	Chain0	24.05	22.84	23.95

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5190MHz	---	5230MHz
802.11n HT40	Chain0	39.72	---	40.61
802.11ac VHT40	Chain0	41.48	---	41.27

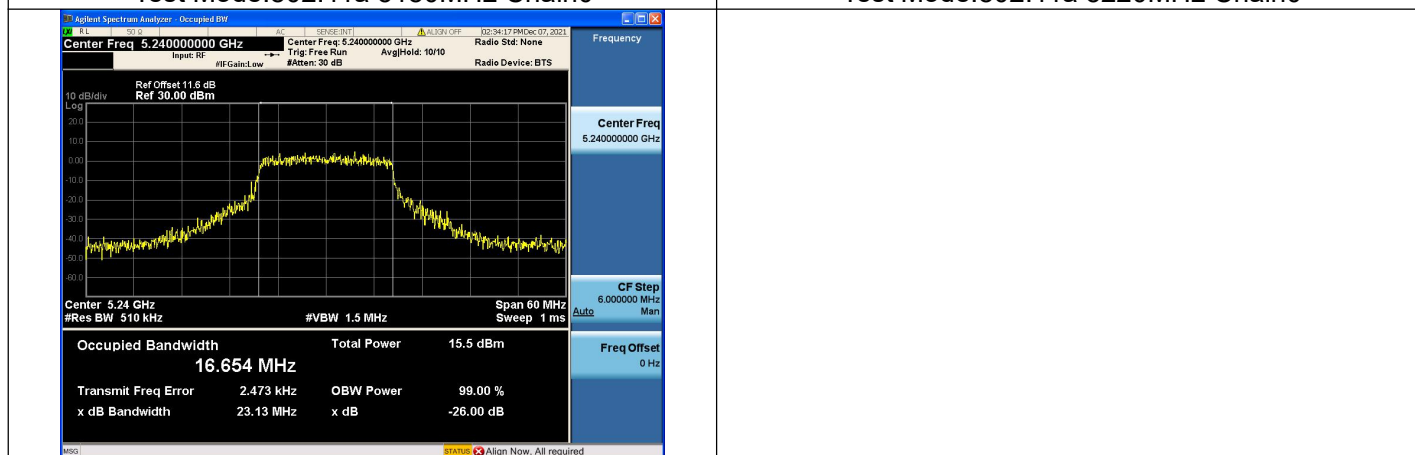
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
802.11ac VHT80	Chain0	5210MHz	---	---
		82.78	---	---

Test Mode: 802.11a



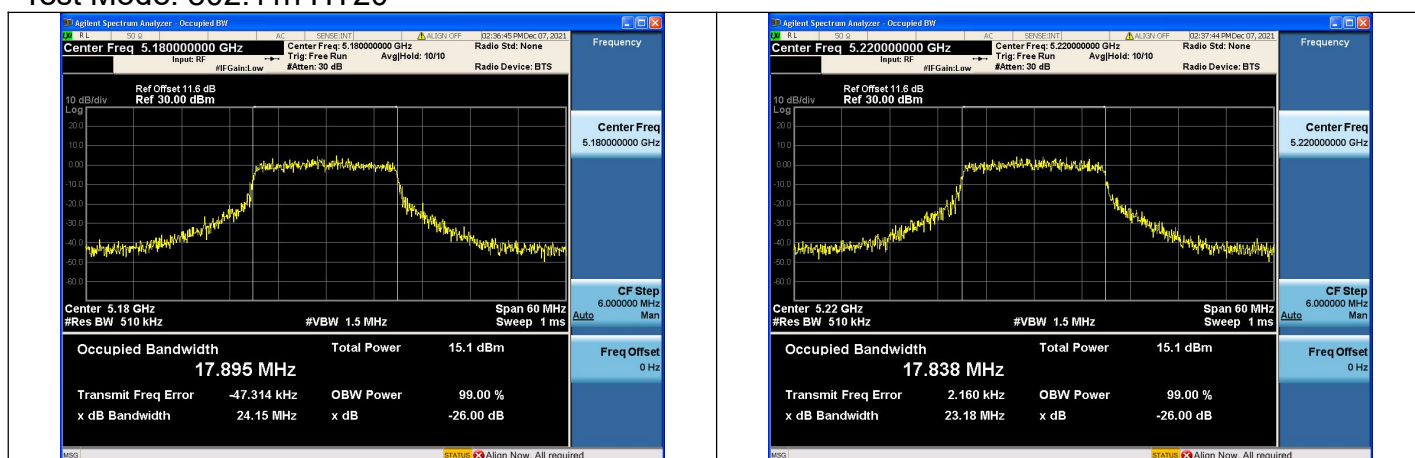
Test Mode: 802.11a 5180MHz Chain0

Test Mode: 802.11a 5220MHz Chain0



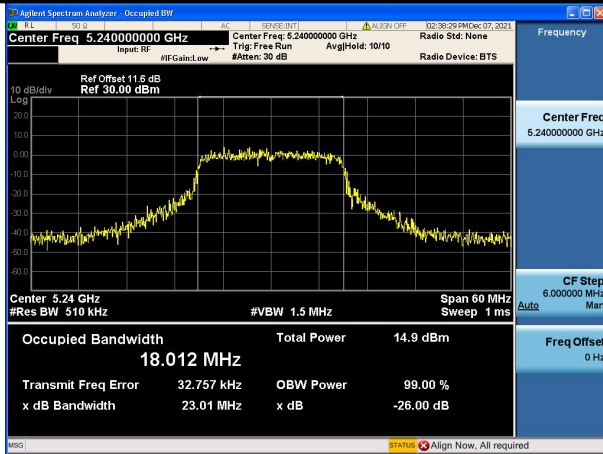
Test Mode: 802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



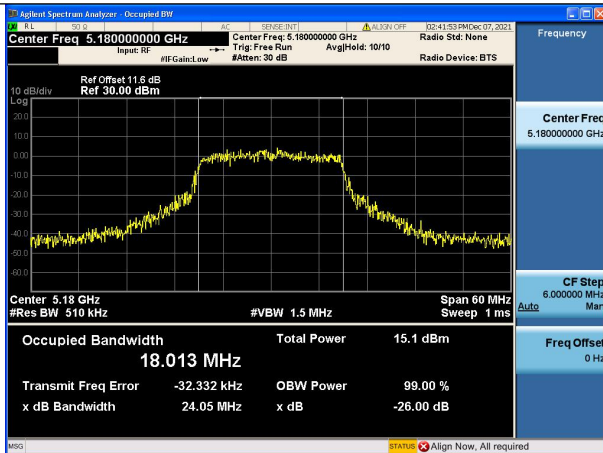
Test Mode: 802.11n HT20 5180MHz Chain0

Test Mode: 802.11n HT20 5220MHz Chain0

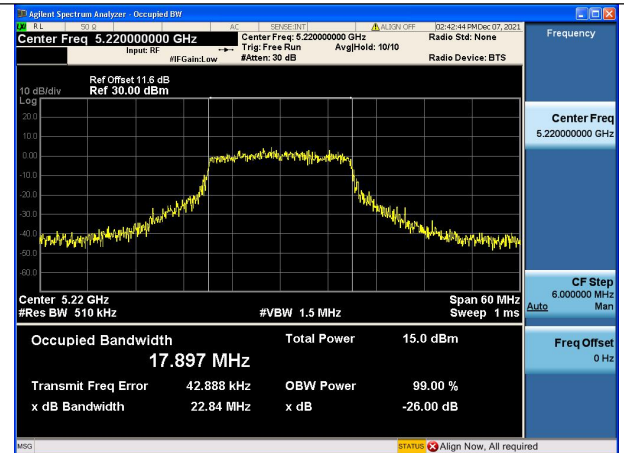


Test Mode:802.11n HT20 5240MHz Chain0

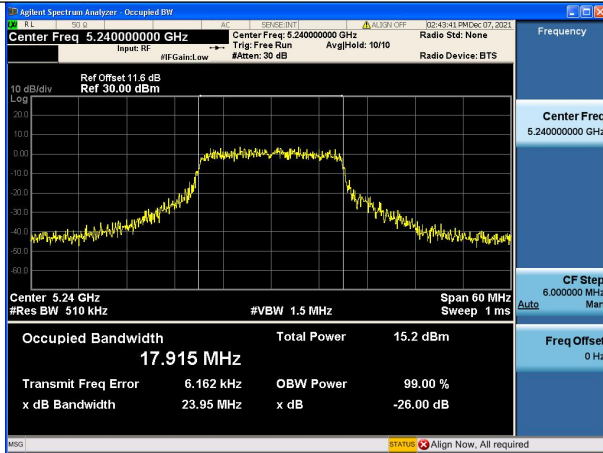
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

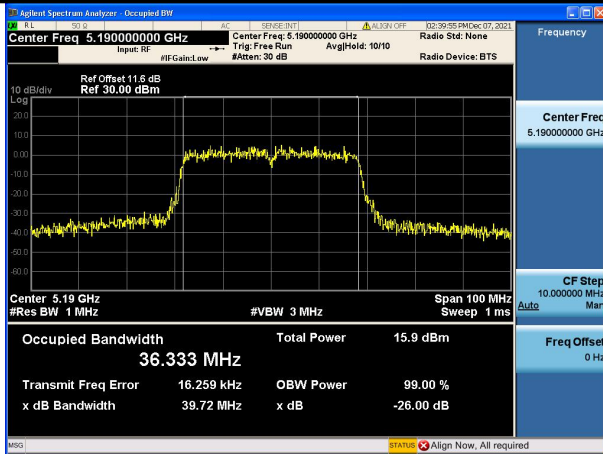


Test Mode:802.11ac VHT20 5220MHz Chain0



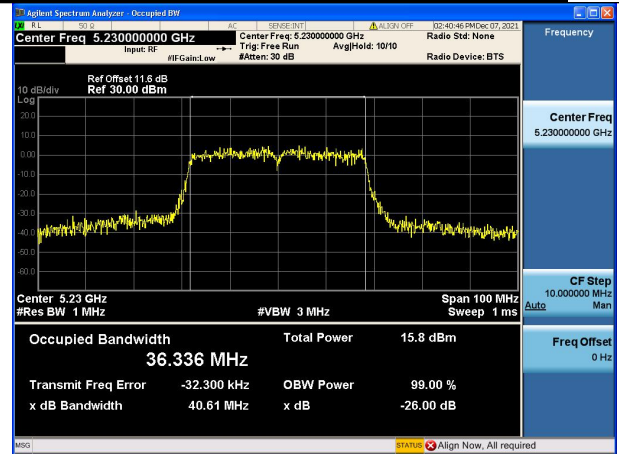
Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

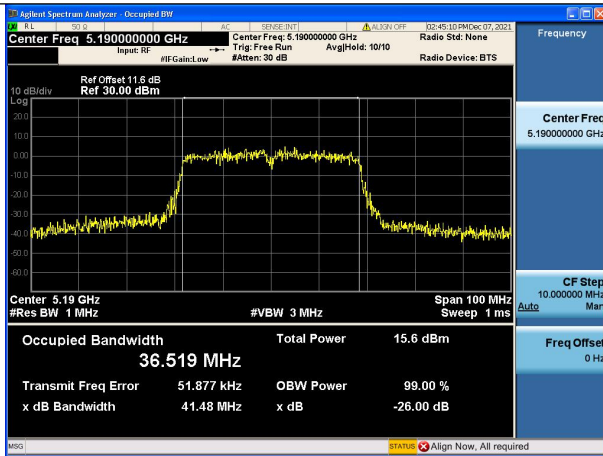


Test Mode:802.11n HT40 5190MHz Chain0

Test Mode: 802.11ac VHT40

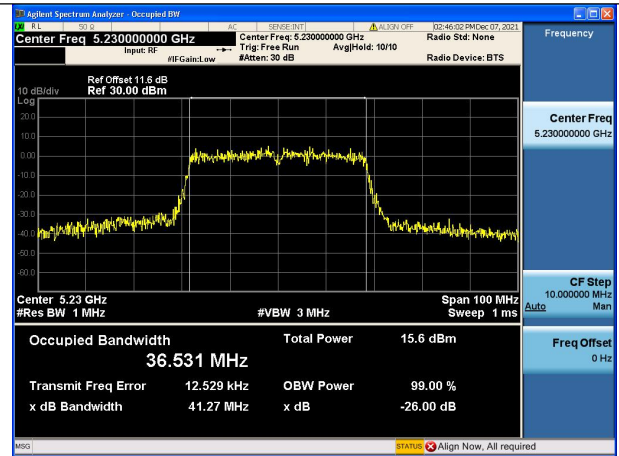


Test Mode:802.11n HT40 5230MHz Chain0

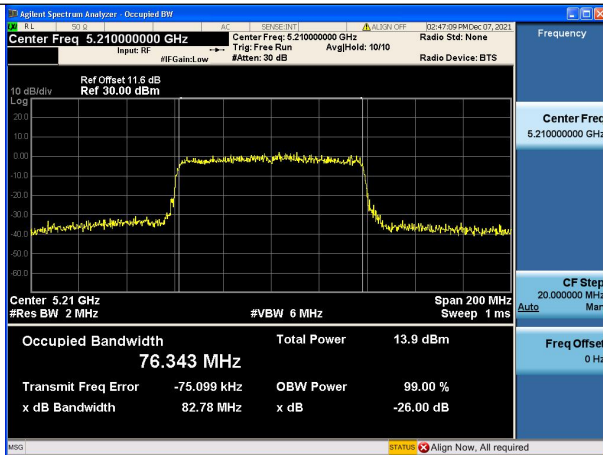


Test Mode:802.11ac VHT40 5190MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5230MHz Chain0



Test Mode:802.11ac VHT80 5210MHz Chain0

Occupied Bandwidth

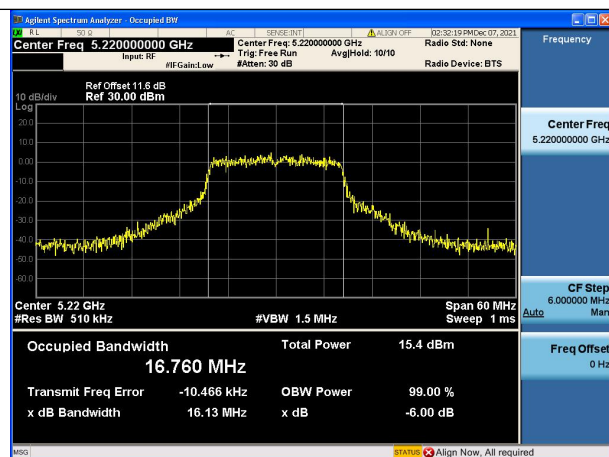
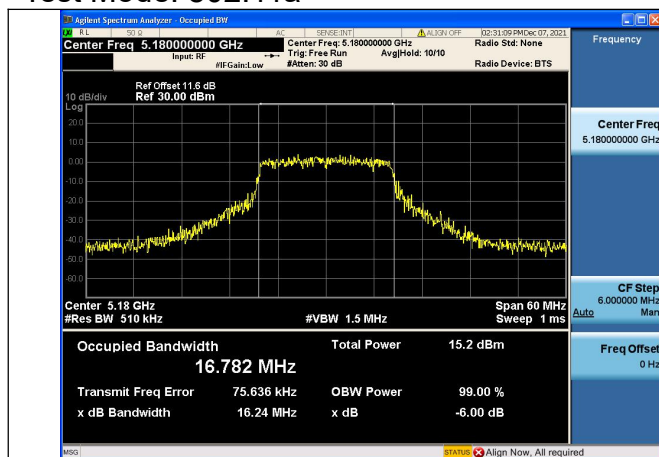
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.782	16.760	16.675
802.11n HT20	Chain0	17.915	17.947	17.934
802.11ac VHT20	Chain0	17.930	17.912	18.002

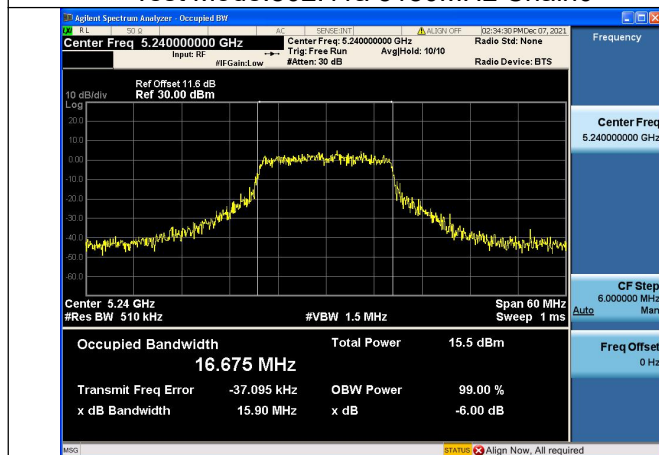
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.483	---	36.595
802.11ac VHT40	Chain0	36.404	---	36.438

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.0	Channel No.1	Channel No.2
		5210MHz	---	---
802.11ac VHT80	Chain0	76.428	---	---

Test Mode: 802.11a



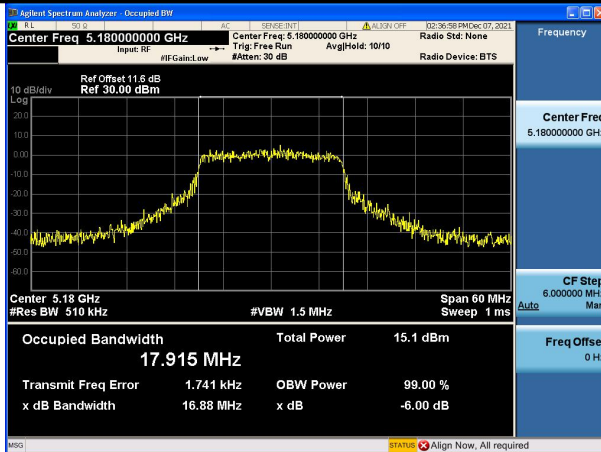
Test Mode:802.11a 5180MHz Chain0



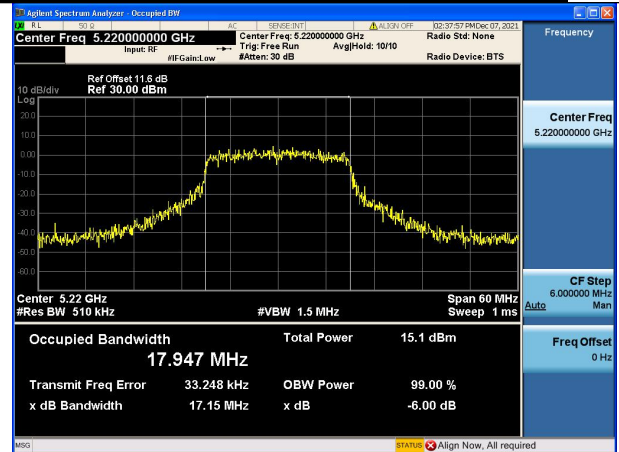
Test Mode:802.11a 5240MHz Chain0

Test Mode:802.11a 5220MHz Chain0

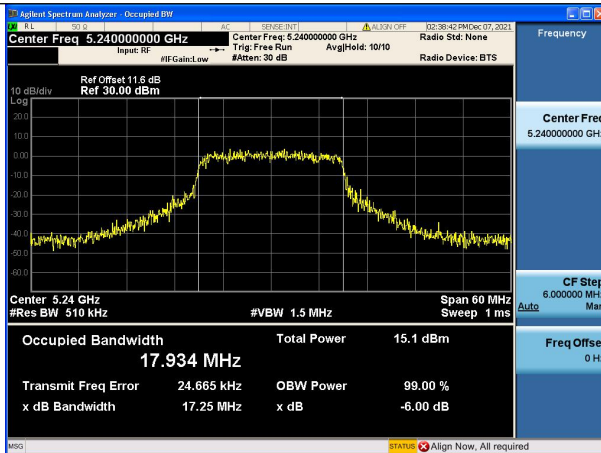
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

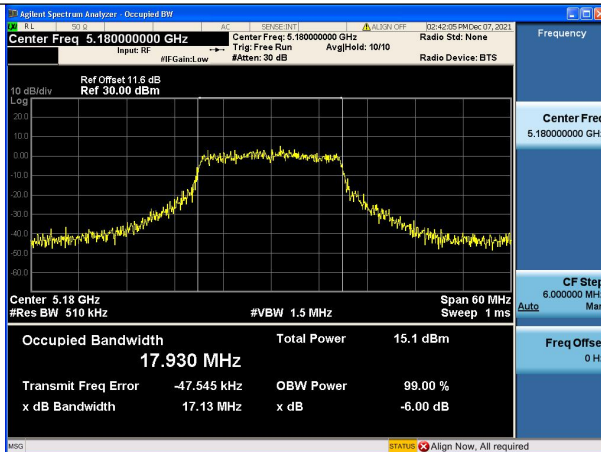


Test Mode:802.11n HT20 5220MHz Chain0

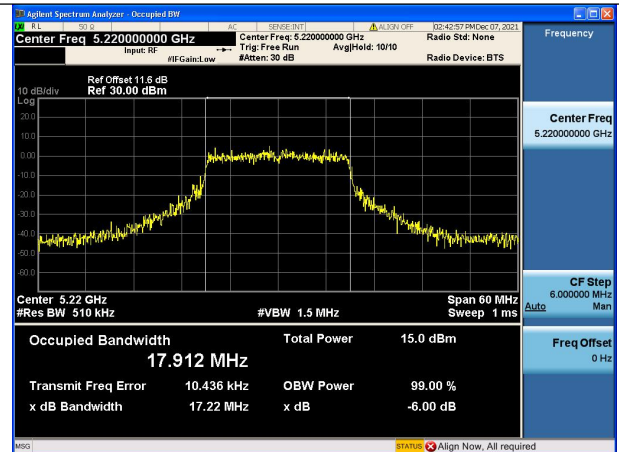


Test Mode:802.11n HT20 5240MHz Chain0

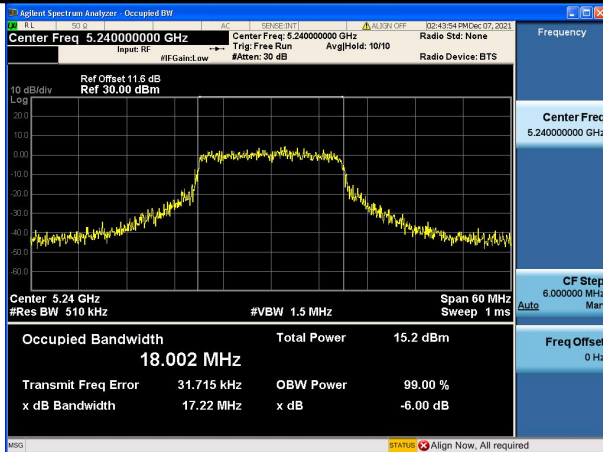
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

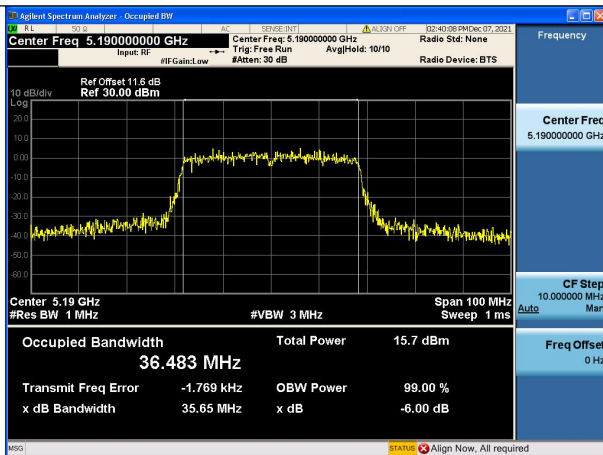


Test Mode:802.11ac VHT20 5220MHz Chain0



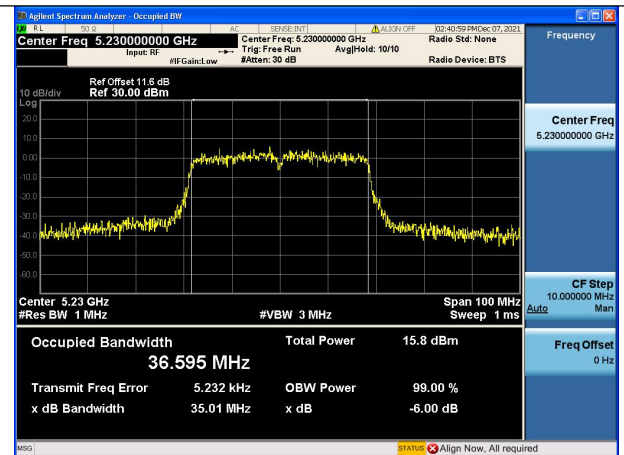
Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

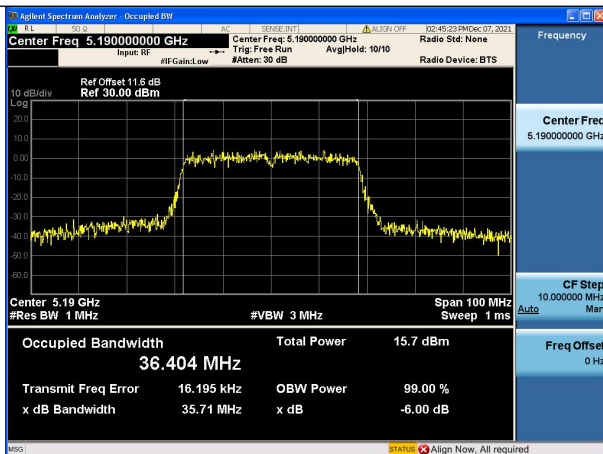


Test Mode:802.11n HT40 5190MHz Chain0

Test Mode: 802.11ac VHT40

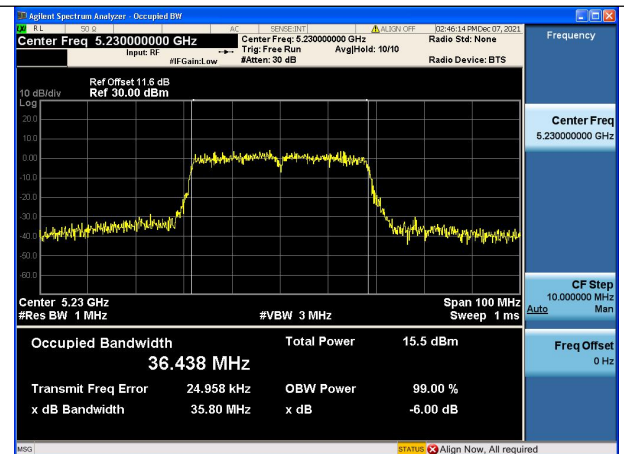


Test Mode:802.11n HT40 5230MHz Chain0

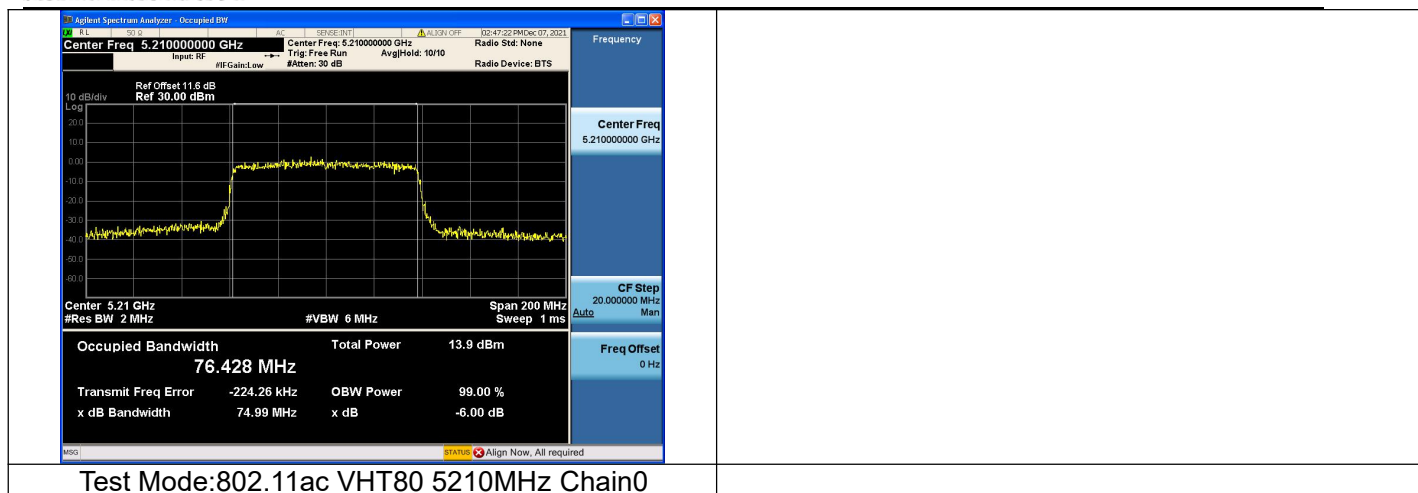


Test Mode:802.11ac VHT40 5190MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5230MHz Chain0



Transmitter Power Spectral Density

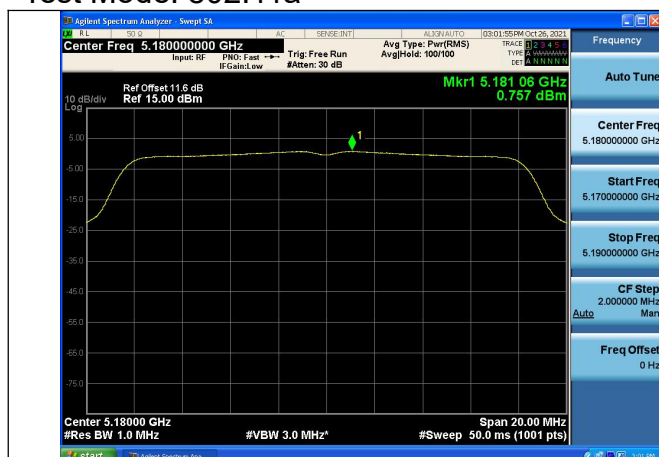
Offset 11.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Channel No.554		Channel No.562		Channel No.566	
		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	7.747	0	7.732	0	7.927
802.11n HT20	Chain0	0	7.425	0	7.313	0	7.497
802.11a c VHT20	Chain0	0	7.351	0	7.310	0	7.520

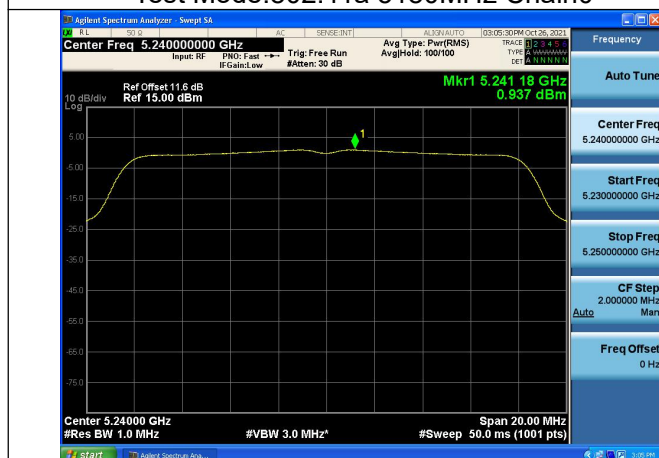
Test Mode	Antenna	Channel No.556		Channel No.1		Channel No.564	
		5190MHz		---		5230MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0	4.717	---	---	0	4.622
802.11a c VHT40	Chain0	0	4.811	---	---	0	4.673

Test Mode	Antenna	Channel No.560		Channel No.1		Channel No.2	
		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	0.11	1.304	---	---	---	---

Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

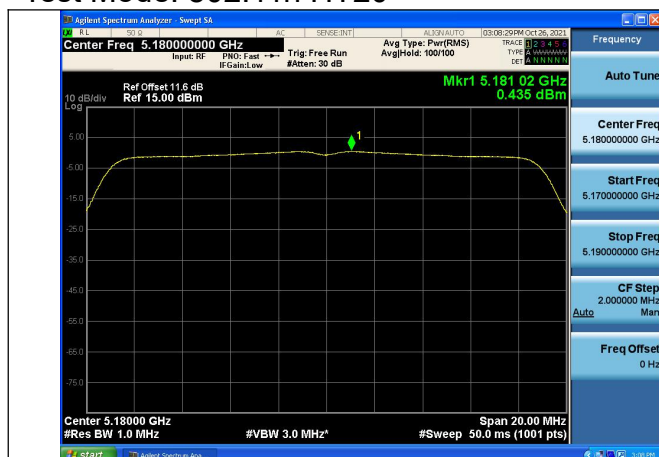


Test Mode:802.11a 5220MHz Chain0



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

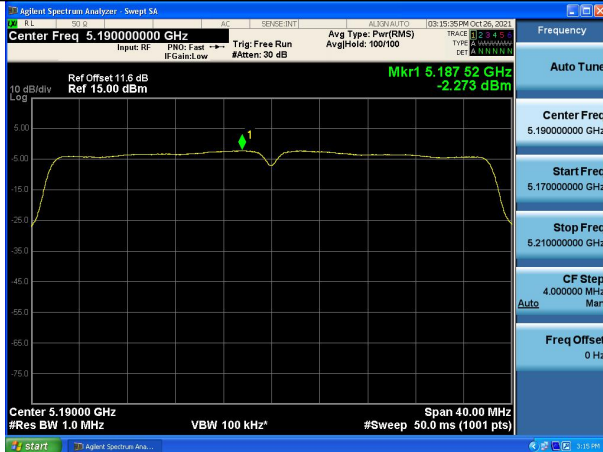


Test Mode:802.11ac VHT20 5220MHz Chain0



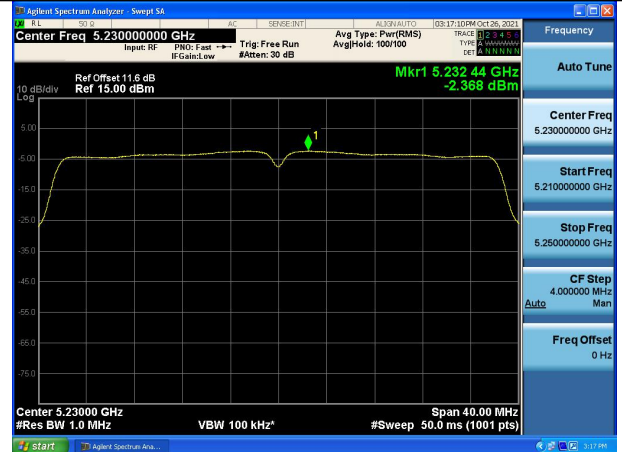
Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0

Test Mode: 802.11ac VHT40



Test Mode:802.11n HT40 5230MHz Chain0



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