

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	97.12%	0.13
802.11n HT20	5180	96.92%	0.14
802.11ac VHT20	5180	96.93%	0.14
802.11n HT40	5190	94.07%	0.27
802.11ac VHT40	5190	94.06%	0.27
802.11ac VHT80	5210	88.97%	0.51

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	15.05	16.55
802.11a	NA	5220	Chain0	15.00	16.50
802.11a	NA	5240	Chain0	14.96	16.46
802.11n HT20	NA	5180	Chain0	13.79	15.29
802.11n HT20	NA	5220	Chain0	13.93	15.43
802.11n HT20	NA	5240	Chain0	13.88	15.38
802.11ac VHT20	NA	5180	Chain0	12.81	14.31
802.11ac VHT20	NA	5220	Chain0	12.88	14.38
802.11ac VHT20	NA	5240	Chain0	12.69	14.19
802.11n HT40	NA	5190	Chain0	13.83	15.33
802.11n HT40	NA	5230	Chain0	13.92	15.42
802.11ac VHT40	NA	5190	Chain0	12.70	14.20
802.11ac VHT40	NA	5230	Chain0	12.71	14.21
802.11ac VHT80	NA	5210	Chain0	12.55	14.05

Emission Bandwidth

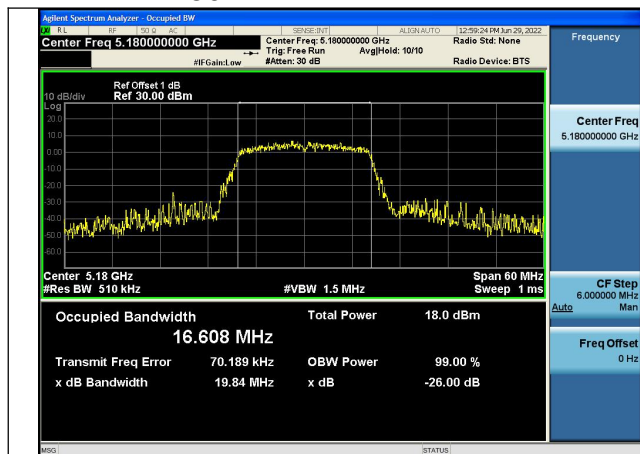
Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	19.84	19.93	20.06
802.11n HT20	Chain0	20.15	20.12	20.06
802.11ac VHT20	Chain0	20.08	19.92	20.03

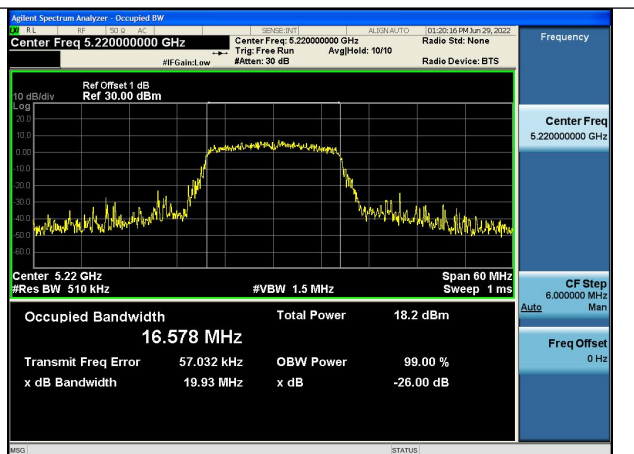
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	40.09	---	40.13
802.11ac VHT40	Chain0	40.56	---	40.38

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	80.37	---	---

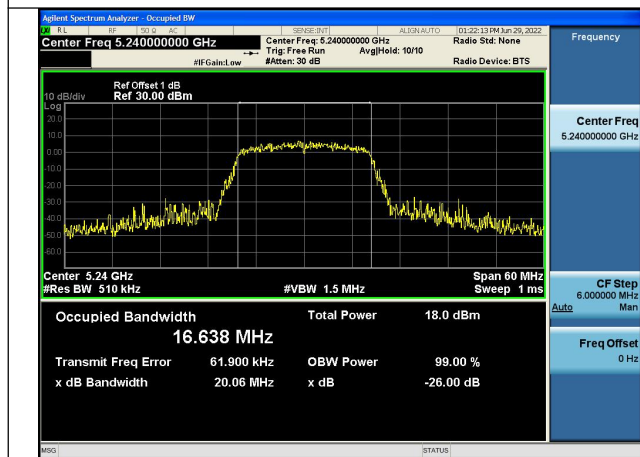
Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

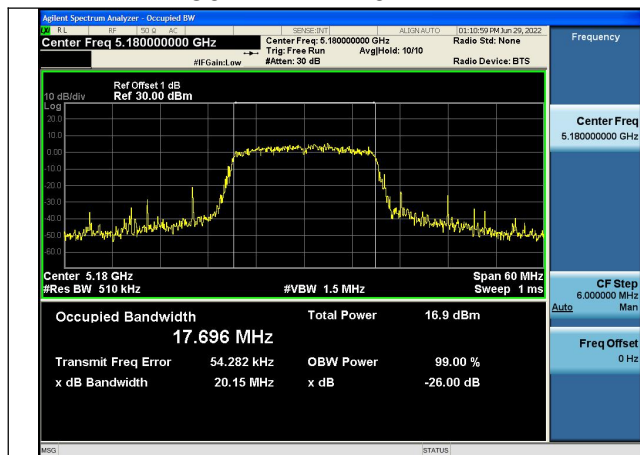


Test Mode:802.11a 5220MHz Chain0

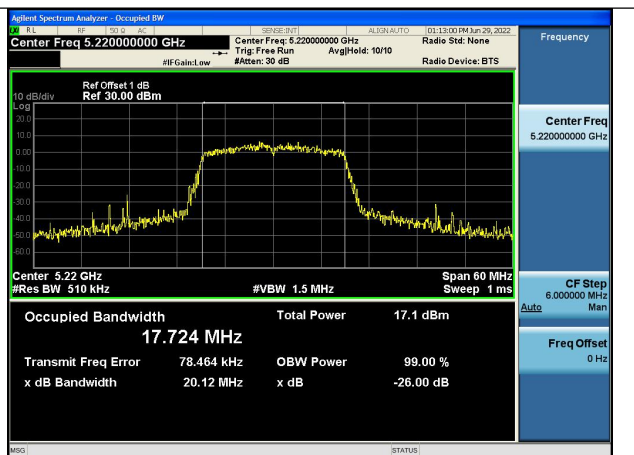


Test Mode:802.11a 5240MHz Chain0

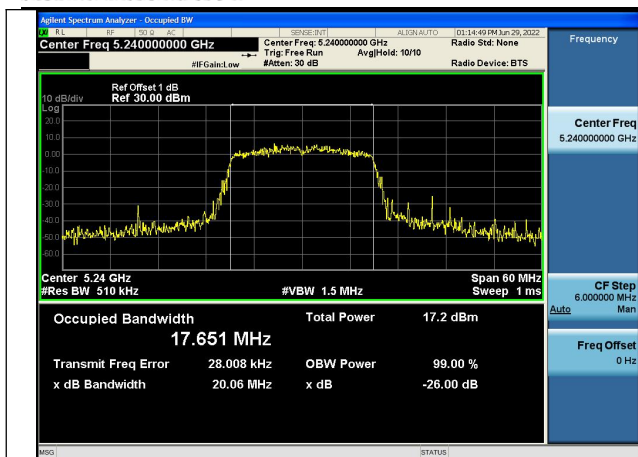
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

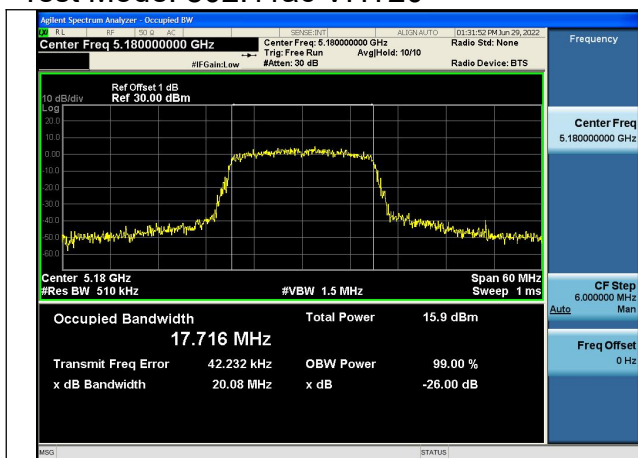


Test Mode:802.11n HT20 5220MHz Chain0

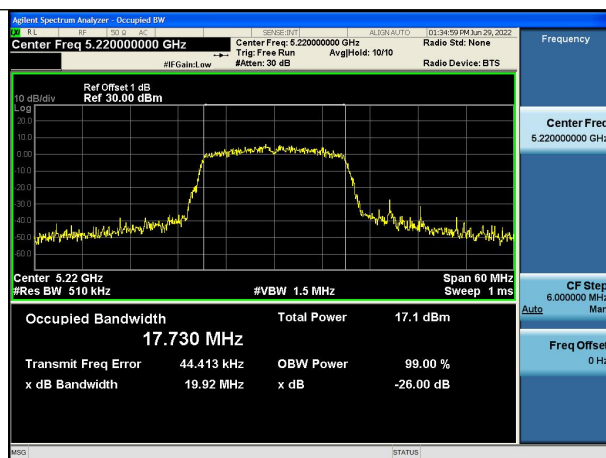


Test Mode:802.11n HT20 5240MHz Chain0

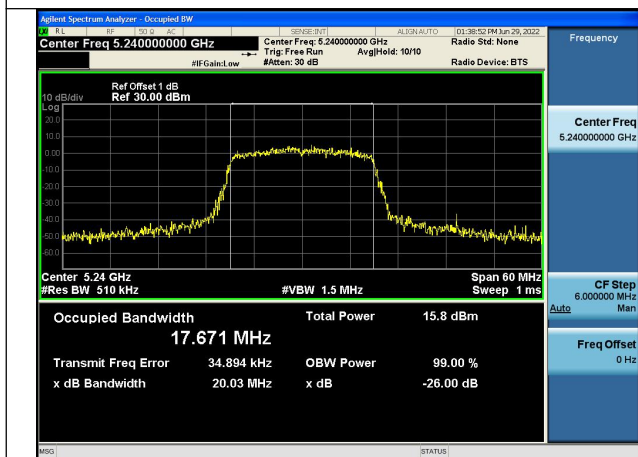
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0

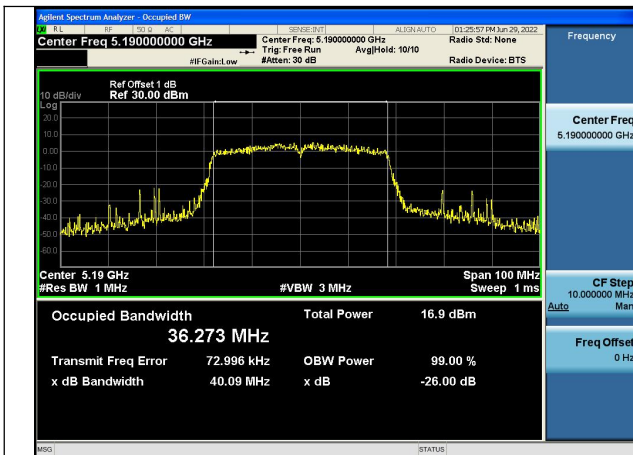


Test Mode:802.11ac VHT20 5220MHz Chain0

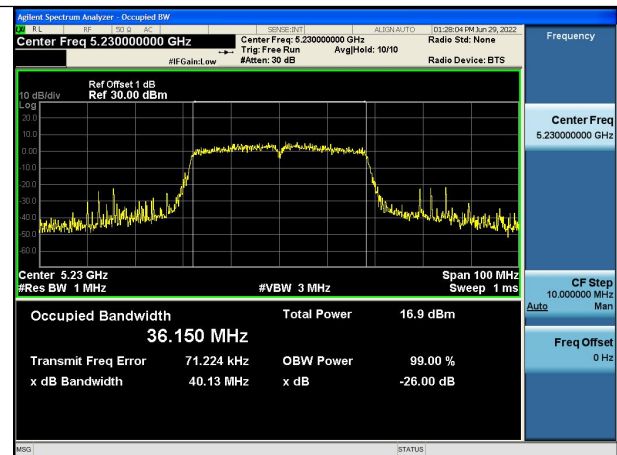


Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

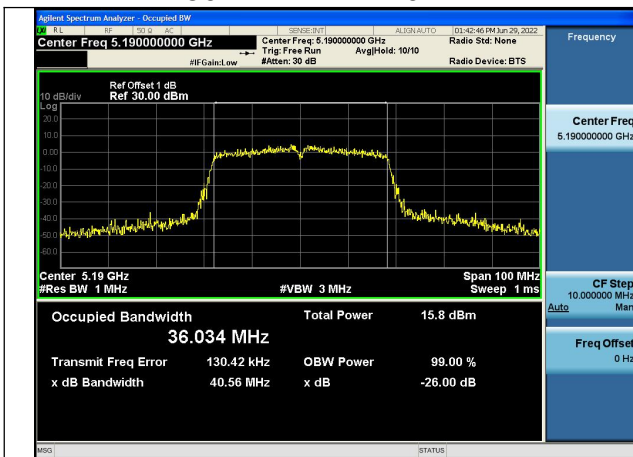


Test Mode:802.11n HT40 5190MHz Chain0

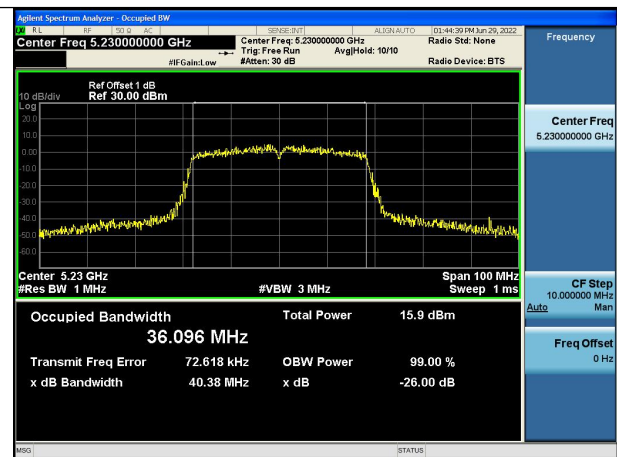


Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

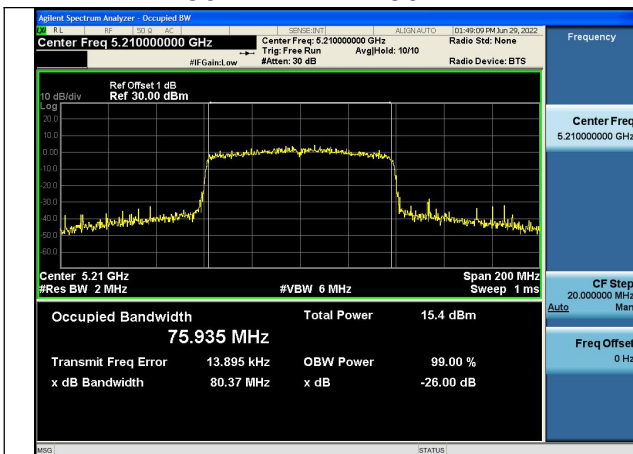


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0

Occupied Bandwidth

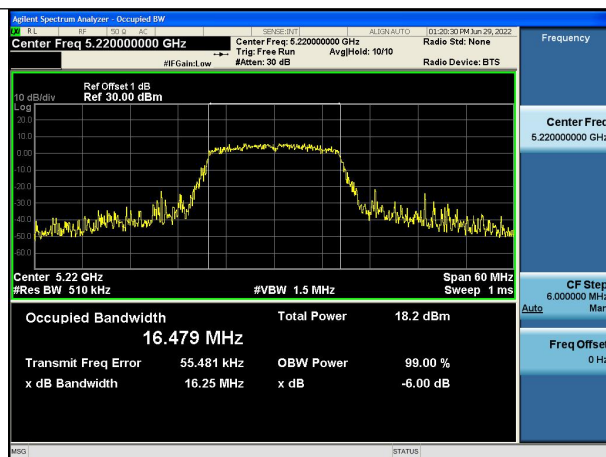
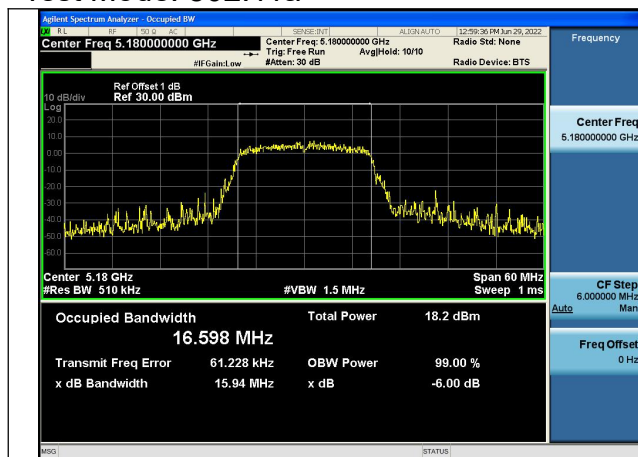
Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.598	16.479	16.681
802.11n HT20	Chain0	17.663	17.623	17.723
802.11ac VHT20	Chain0	17.650	17.700	17.690

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.144	---	36.210
802.11ac VHT40	Chain0	36.124	---	36.156

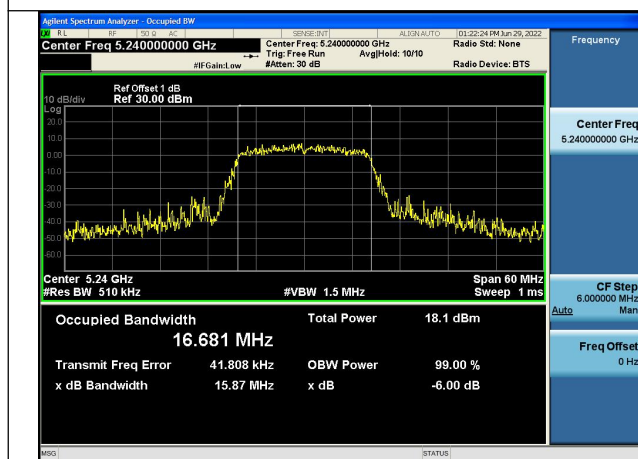
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	75.519	---	---

Test Mode: 802.11a



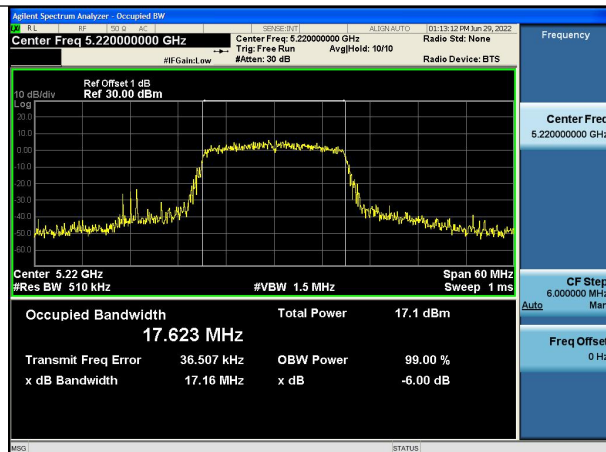
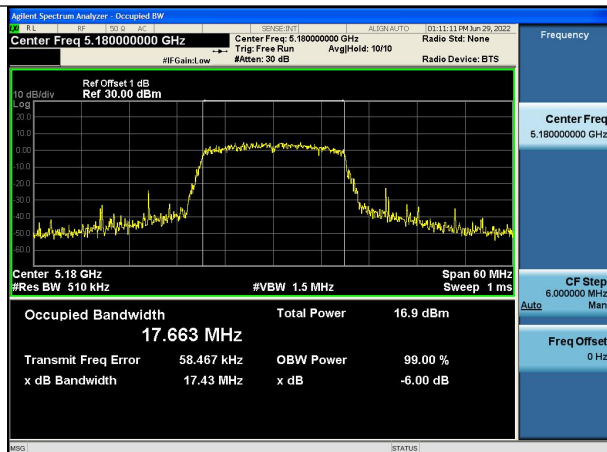
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0



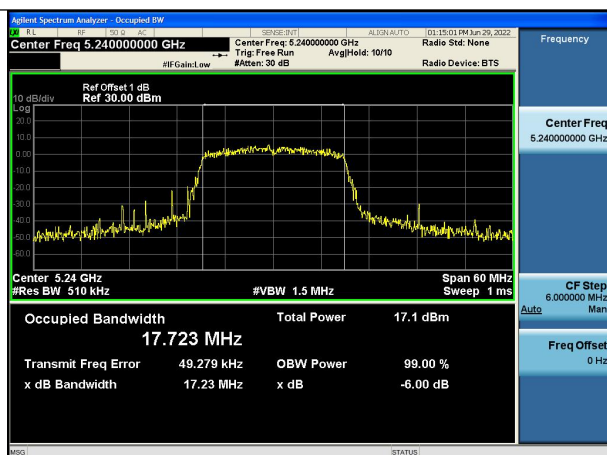
Test Mode:802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



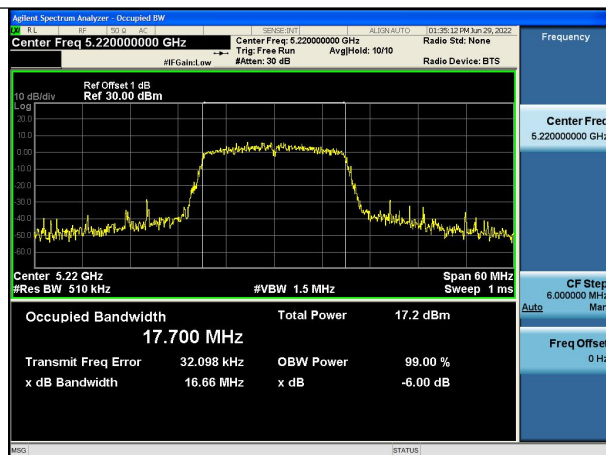
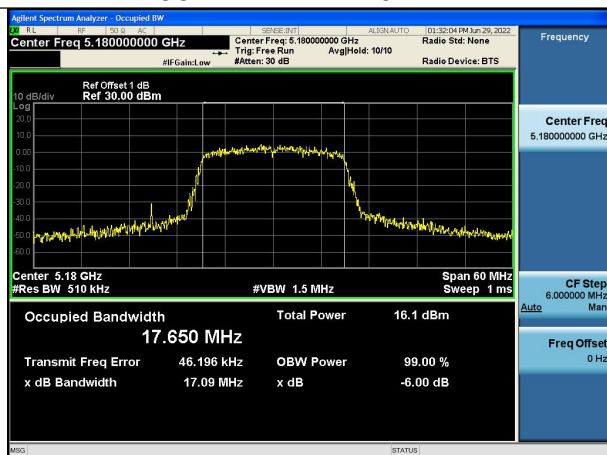
Test Mode:802.11n HT20 5180MHz Chain0

Test Mode:802.11n HT20 5220MHz Chain0



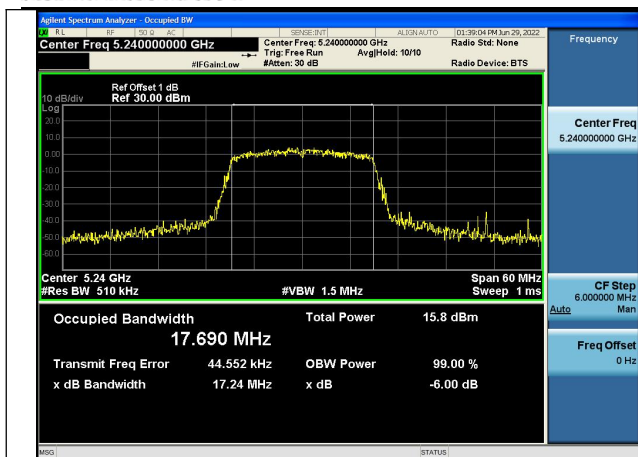
Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11ac VHT20



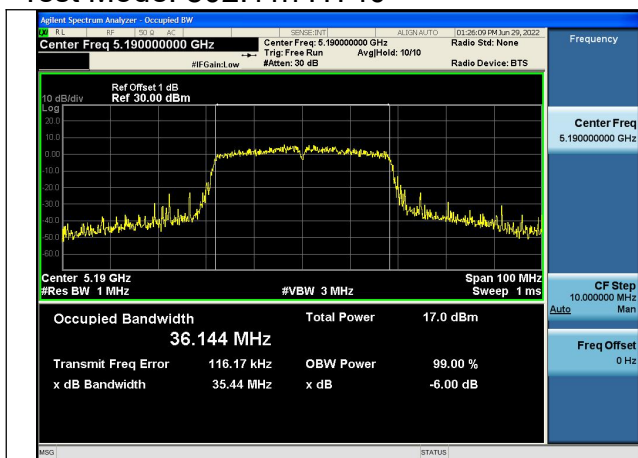
Test Mode:802.11ac VHT20 5180MHz Chain0

Test Mode:802.11ac VHT20 5220MHz Chain0

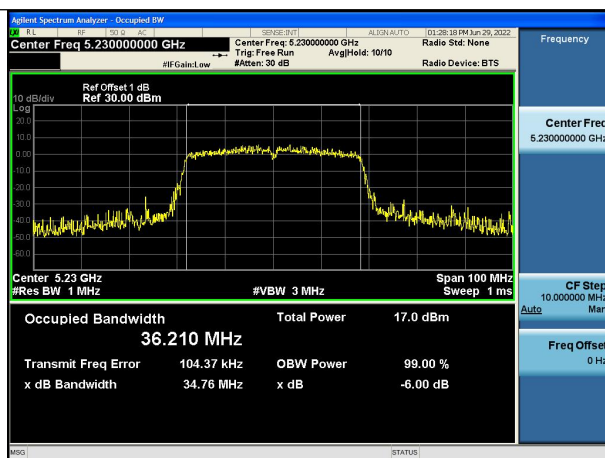


Test Mode:802.11ac VHT20 5240MHz Chain0

Test Mode: 802.11n HT40

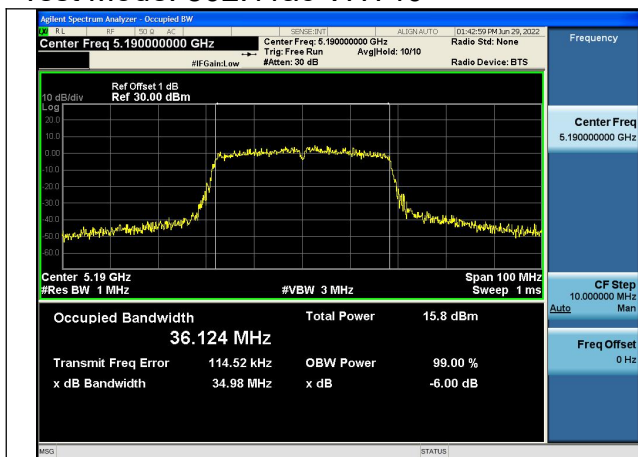


Test Mode:802.11n HT40 5190MHz Chain0

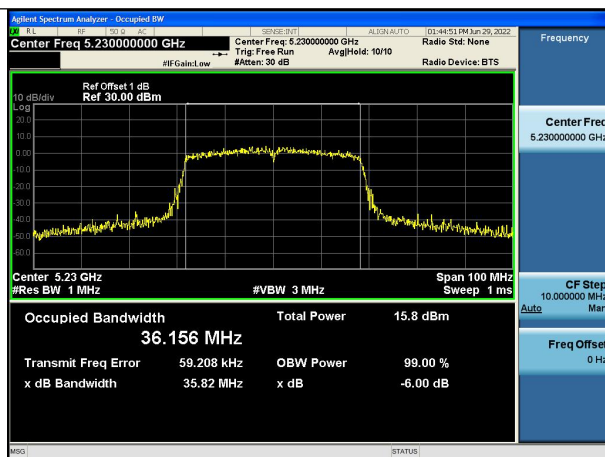


Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

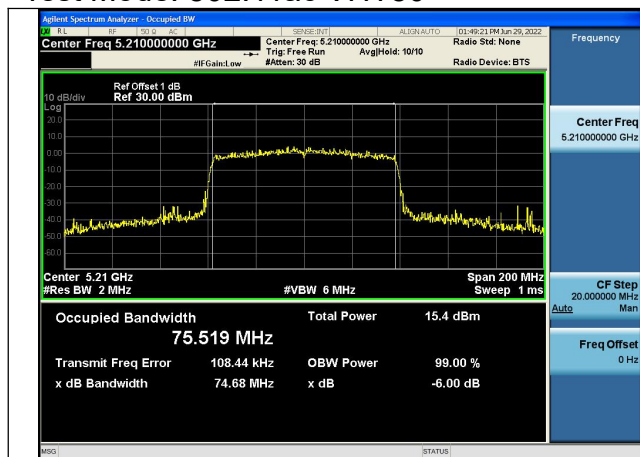


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0

Transmitter Power Spectral Density

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

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	0.13	4.541	0.13	4.555	0.13	4.472
802.11n HT20	Chain0	0.14	3.156	0.14	3.291	0.14	3.235
802.11ac VHT20	Chain0	0.14	2.068	0.14	2.281	0.14	2.169

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	0.27	0.297	---	---	0.27	0.400
802.11ac VHT40	Chain0	0.27	-0.794	---	---	0.27	-0.732

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)
802.11ac VHT80	Chain0	0.51	-3.990	---	---	---	---

Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0

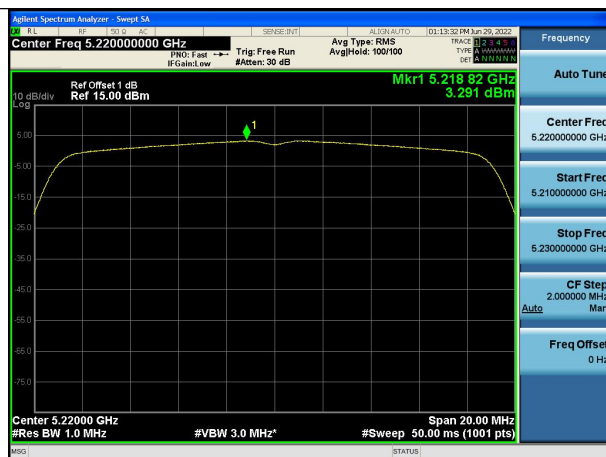


Test Mode:802.11a 5240MHz Chain0

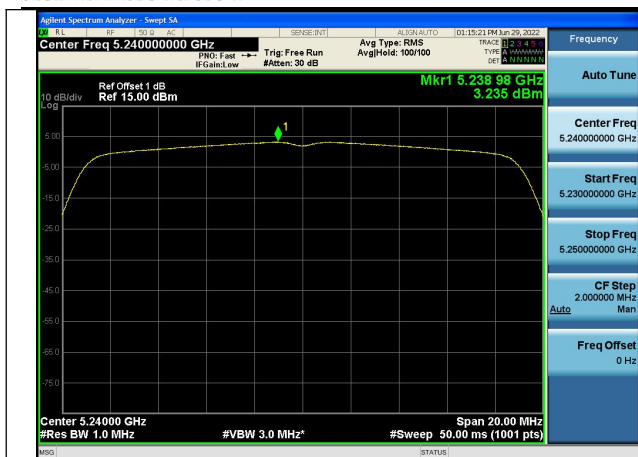
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0



Test Mode:802.11n HT20 5220MHz Chain0

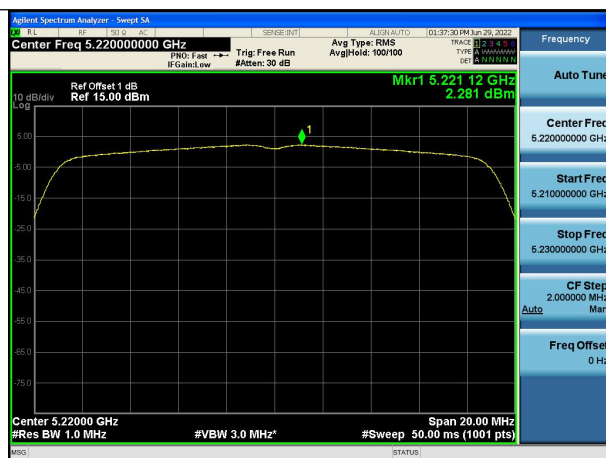


Test Mode:802.11n HT20 5240MHz Chain0

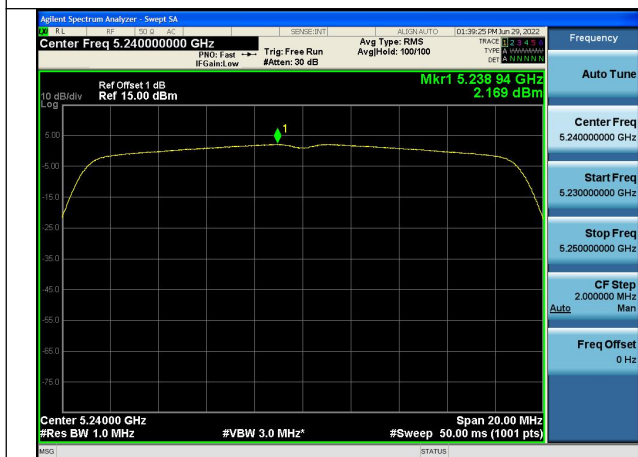
Test Mode: 802.11ac VHT20



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

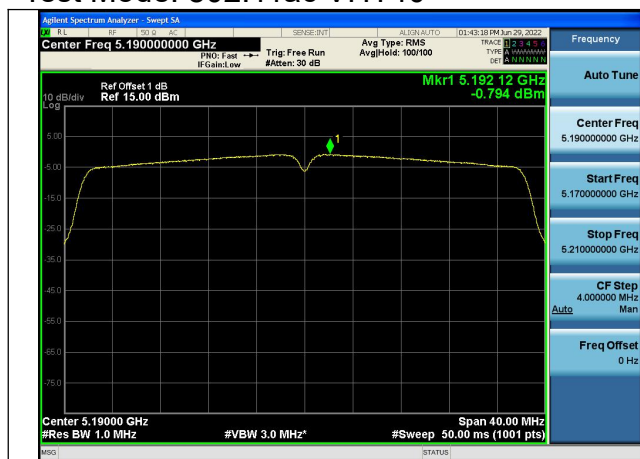


Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Test Mode: 802.11ac VHT40

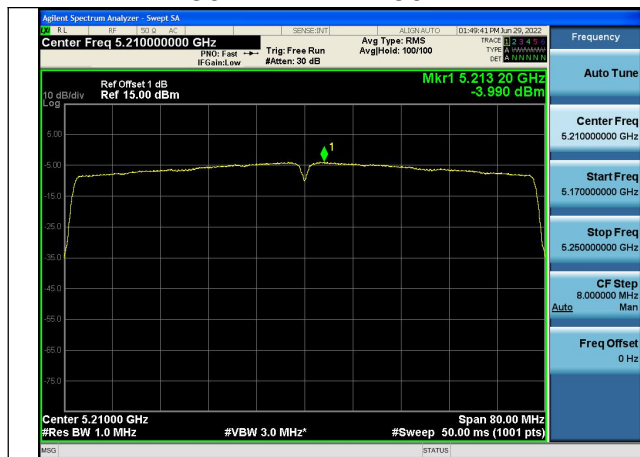


Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0