

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	85.99%	0.66	Fig.1
802.11n HT20	5745	84.04%	0.76	Fig.2
802.11ac VHT20	5745	84.44%	0.73	Fig.3
802.11n HT40	5755	77.47%	1.11	Fig.4
802.11ac VHT40	5755	77.42%	1.11	Fig.5
802.11ac VHT80	5775	69.45%	1.58	Fig.6

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

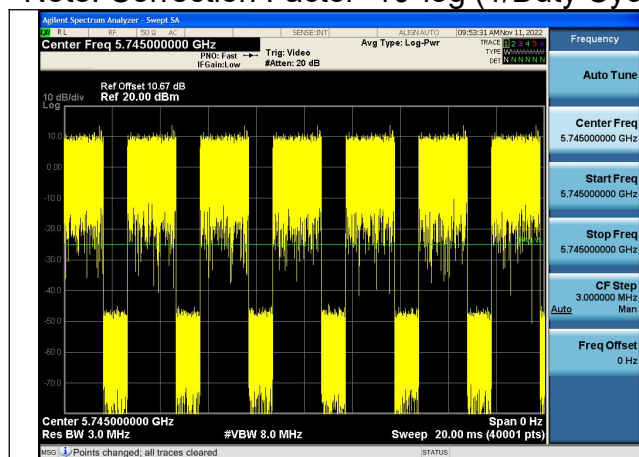


Fig.1

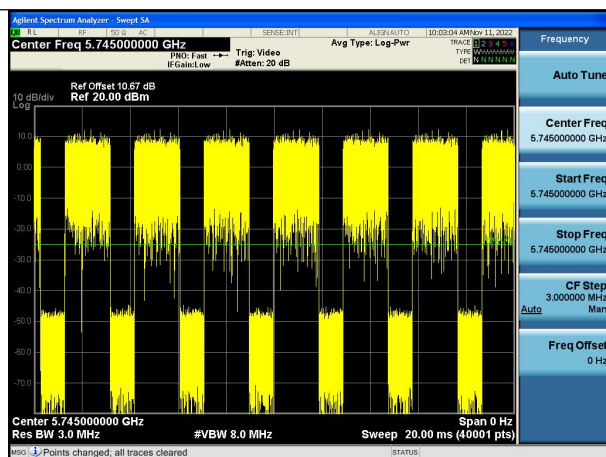


Fig.2

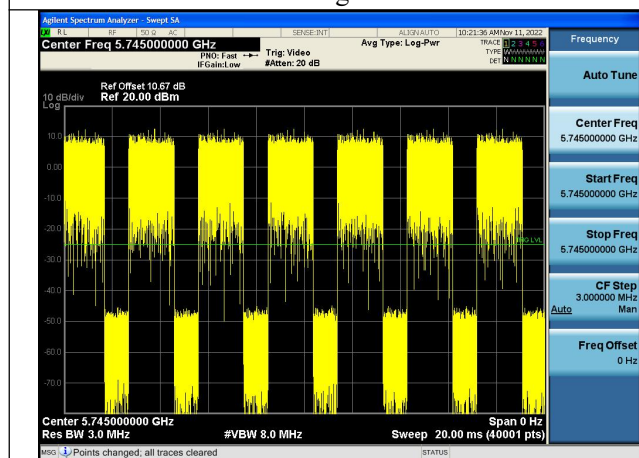


Fig.3

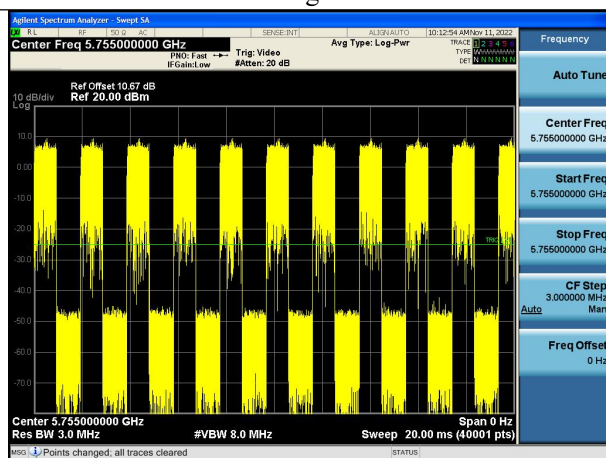


Fig.4

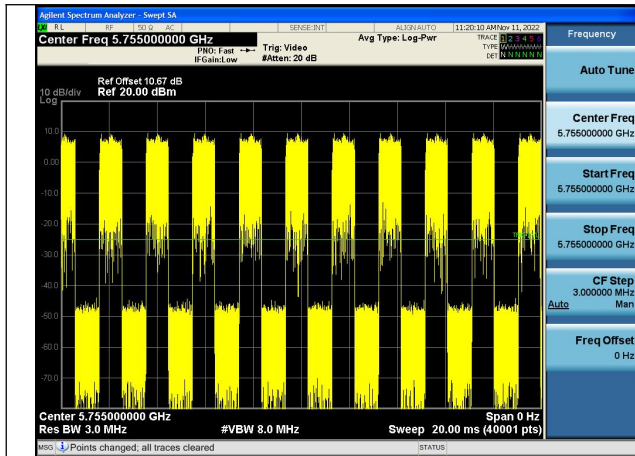


Fig.5

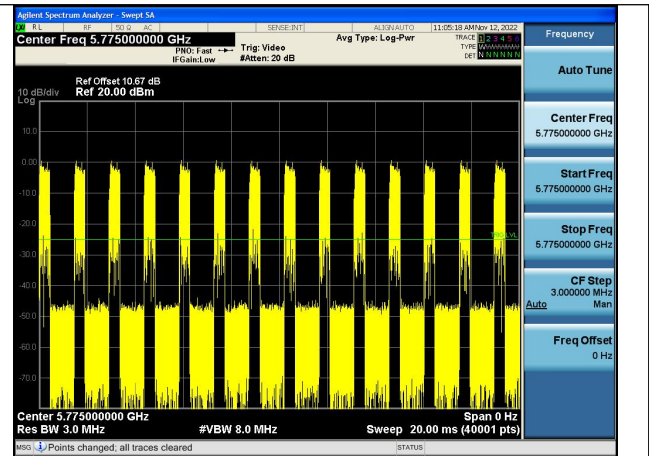


Fig.6

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	12.05	15.05
802.11a	NA	5785	Chain0	12.49	15.49
802.11a	NA	5825	Chain0	12.33	15.33
802.11n HT20	NA	5745	Chain0	12.83	15.83
802.11n HT20	NA	5785	Chain0	13.30	16.30
802.11n HT20	NA	5825	Chain0	13.17	16.17
802.11ac VHT20	NA	5745	Chain0	12.86	15.86
802.11ac VHT20	NA	5785	Chain0	13.30	16.30
802.11ac VHT20	NA	5825	Chain0	13.15	16.15
802.11n HT40	NA	5755	Chain0	12.34	15.34
802.11n HT40	NA	5795	Chain0	12.74	15.74
802.11ac VHT40	NA	5755	Chain0	12.48	15.48
802.11ac VHT40	NA	5795	Chain0	12.79	15.79
802.11ac VHT80	NA	5775	Chain0	11.04	14.04

Emission Bandwidth

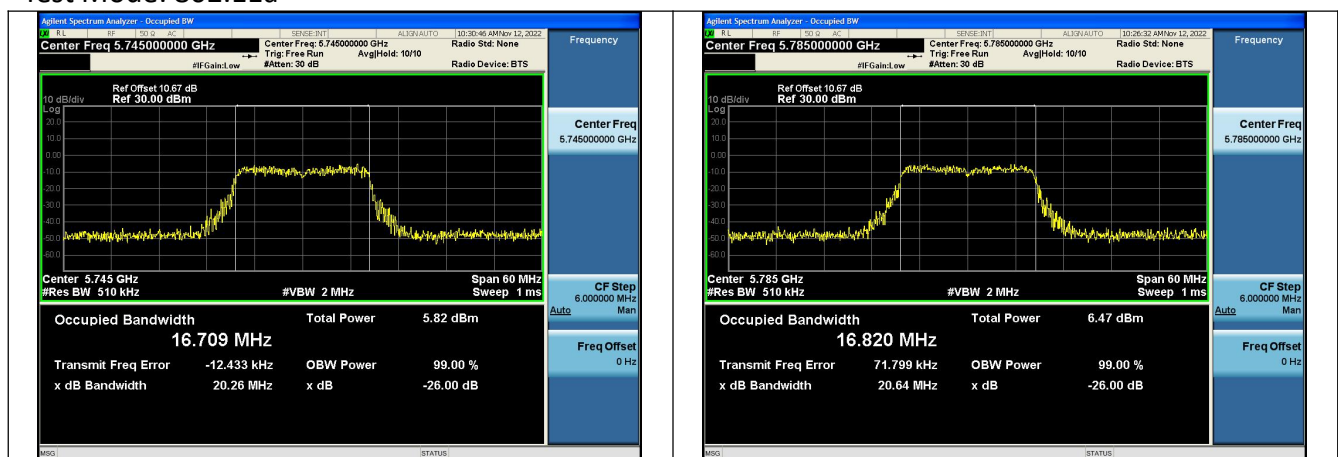
Offset 10.67dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	20.26	20.64	21.09
802.11n HT20	Chain0	21.10	21.41	20.72
802.11ac VHT20	Chain0	20.50	20.95	20.97

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	41.48	---	41.93
802.11ac VHT40	Chain0	41.76	---	39.87

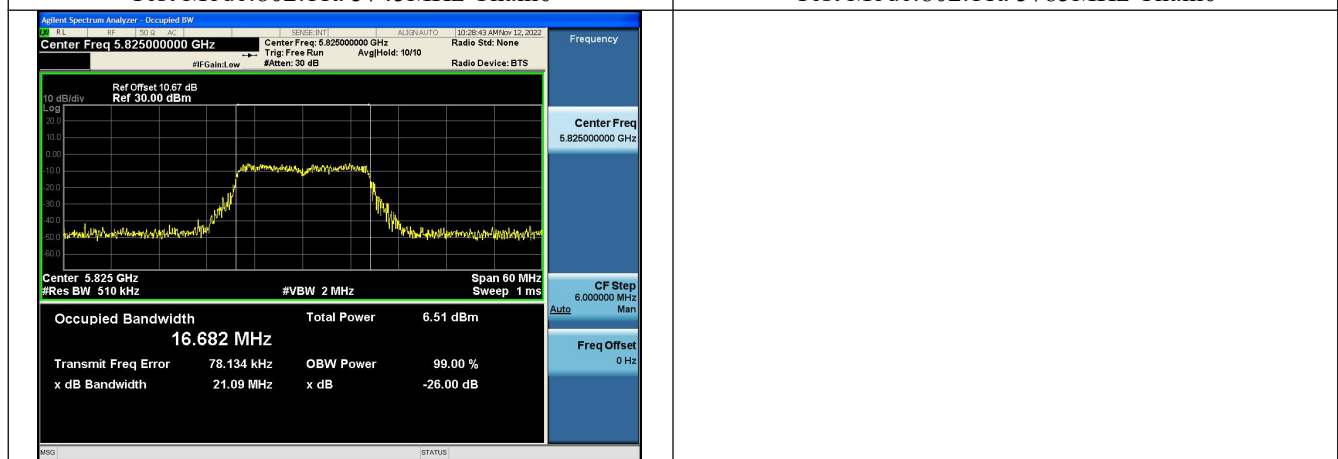
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	80.72	---	---

Test Mode: 802.11a



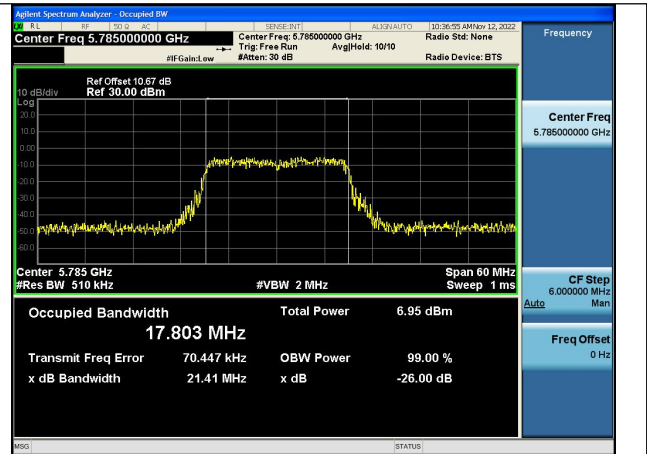
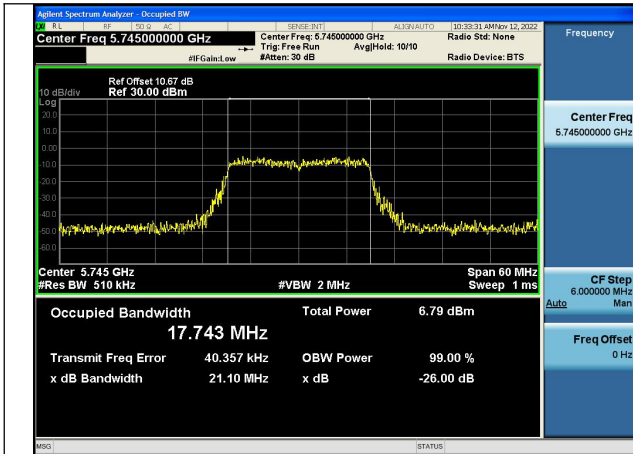
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

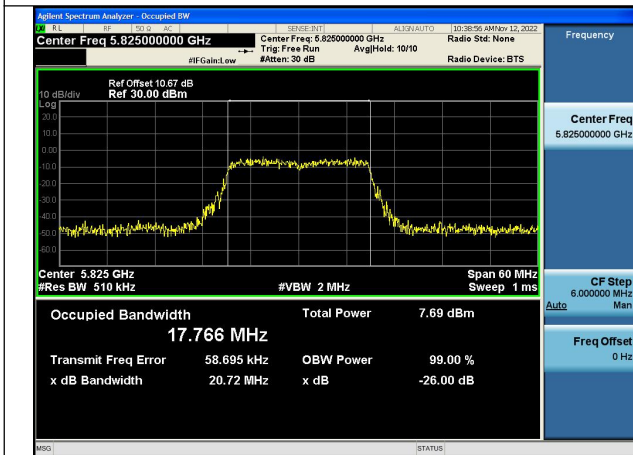


Test Mode:802.11a 5825MHz Chain0

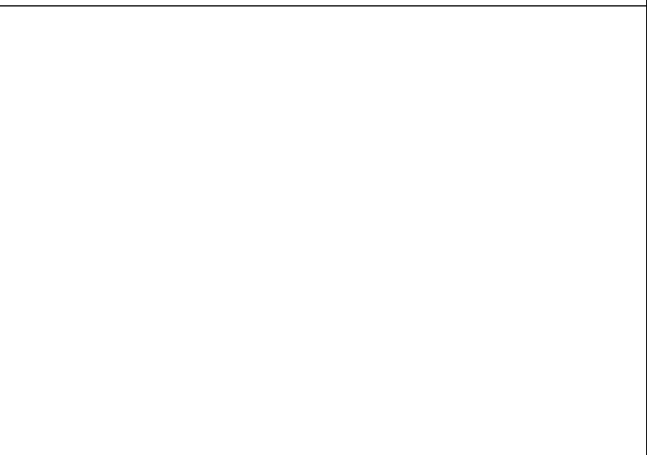
Test Mode: 802.11n HT20



Test Mode: 802.11n HT20 5745MHz Chain0

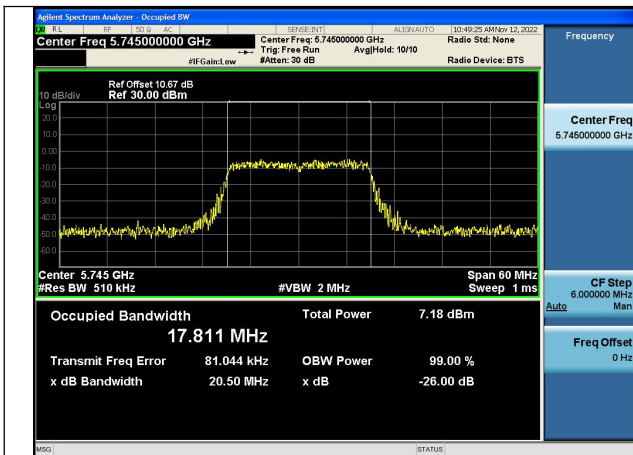


Test Mode: 802.11n HT20 5785MHz Chain0



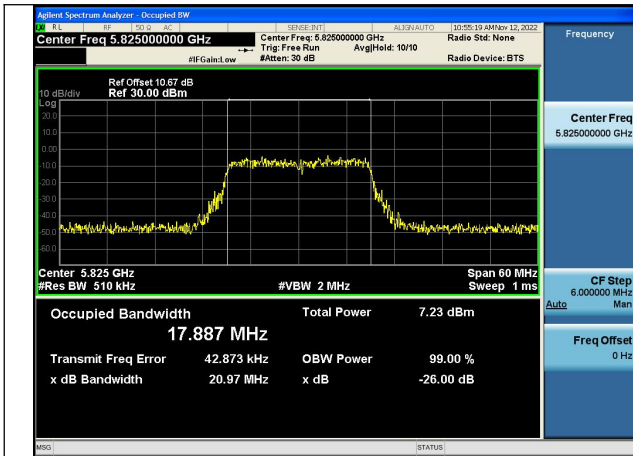
Test Mode: 802.11n HT20 5825MHz Chain0

Test Mode: 802.11ac VHT20



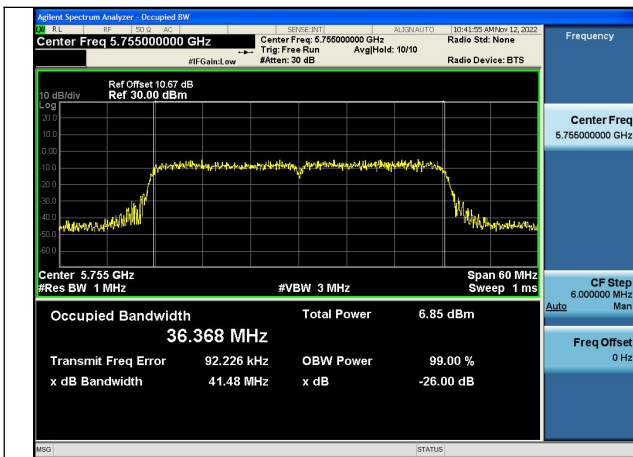
Test Mode: 802.11ac VHT20 5745MHz Chain0

Test Mode: 802.11ac VHT20 5785MHz Chain0

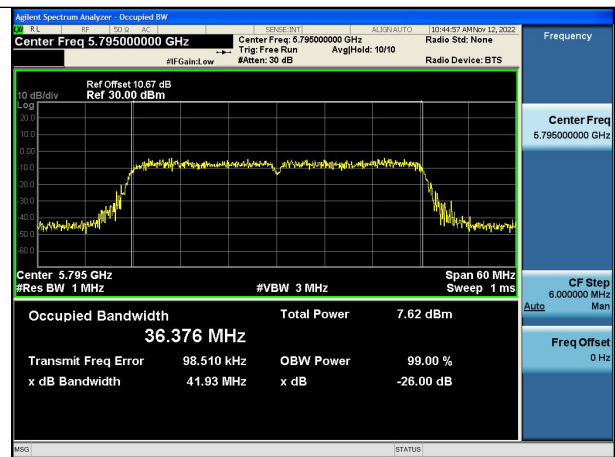


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

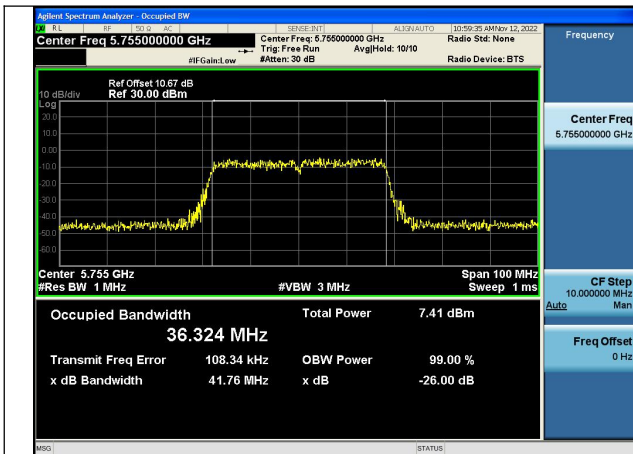


Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40

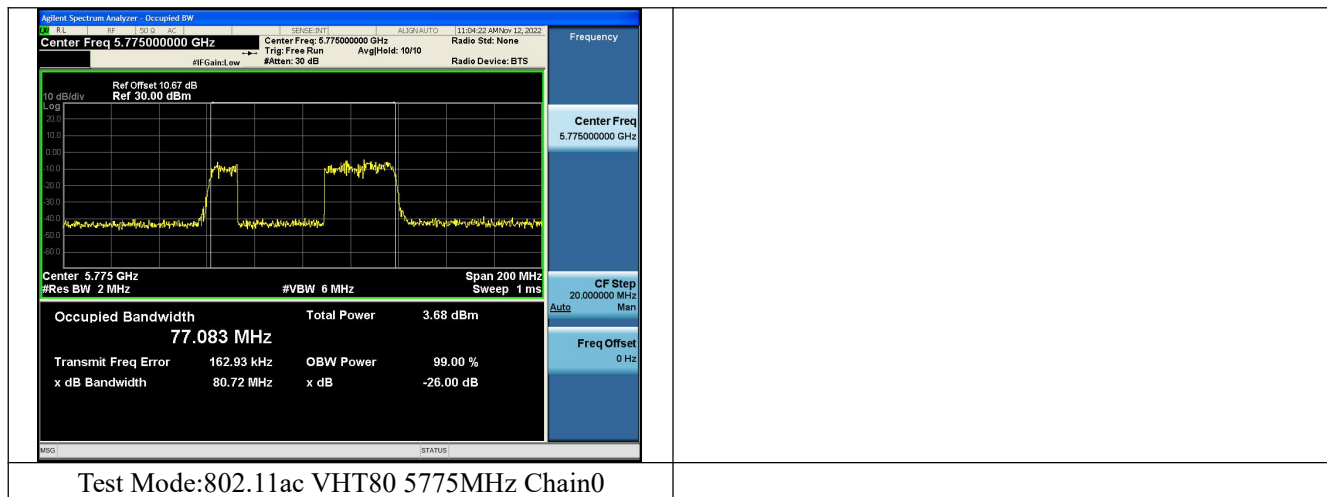


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Occupied Bandwidth

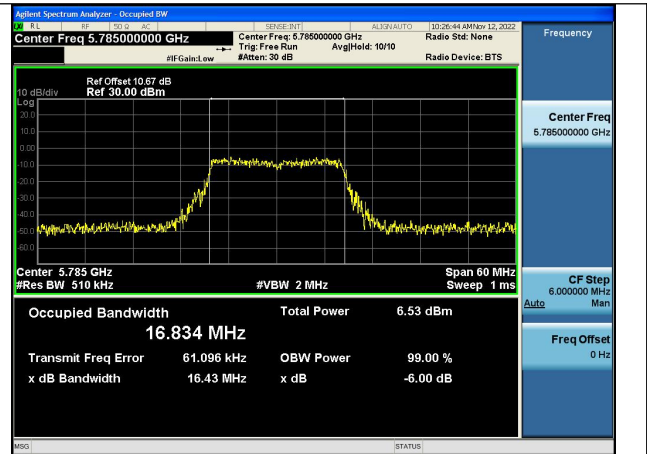
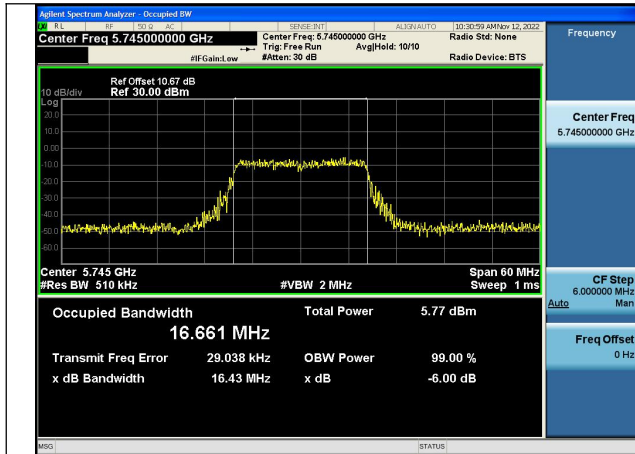
Offset 10.67dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.661	16.834	16.666
802.11n HT20	Chain0	17.857	17.694	17.944
802.11ac VHT20	Chain0	17.750	17.792	17.838

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.278	---	36.352
802.11ac VHT40	Chain0	36.406	---	36.337

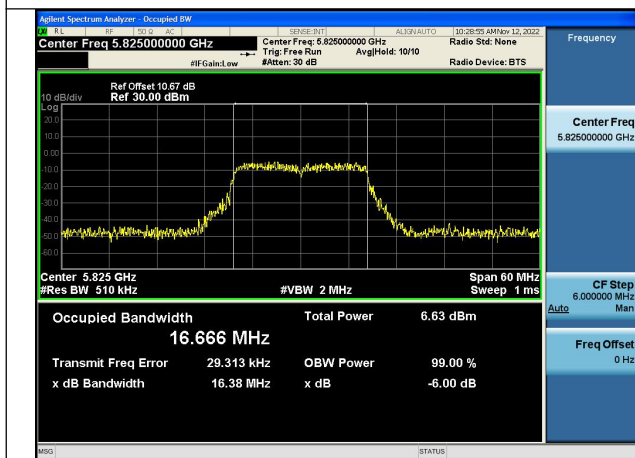
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.186	---	---

Test Mode: 802.11a



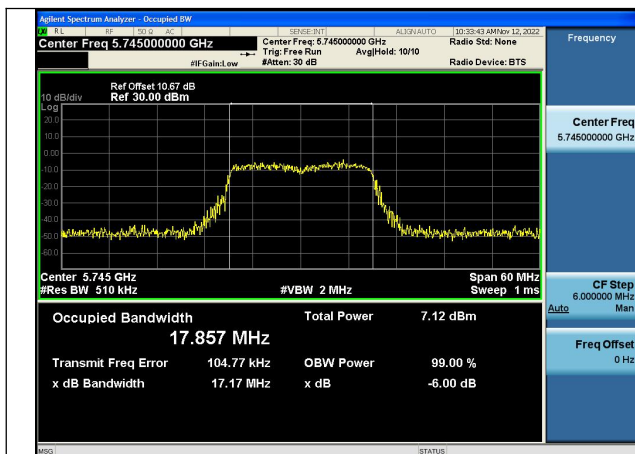
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

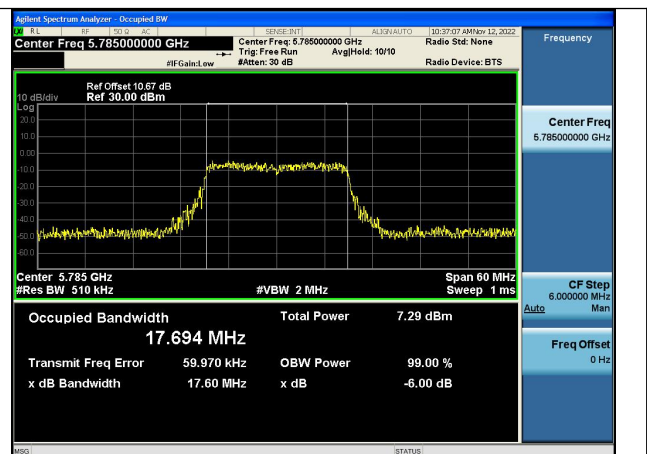


Test Mode:802.11a 5825MHz Chain0

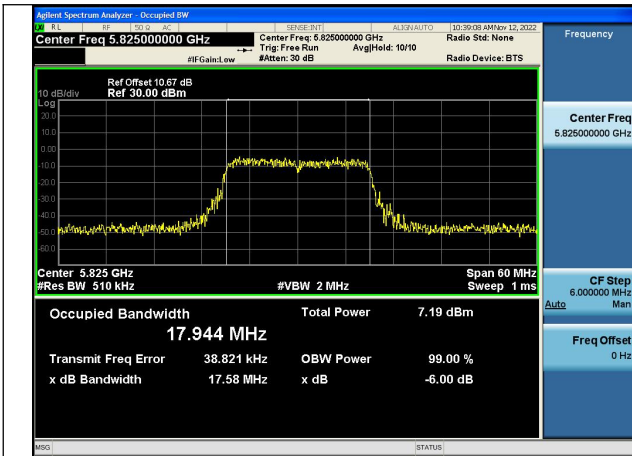
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

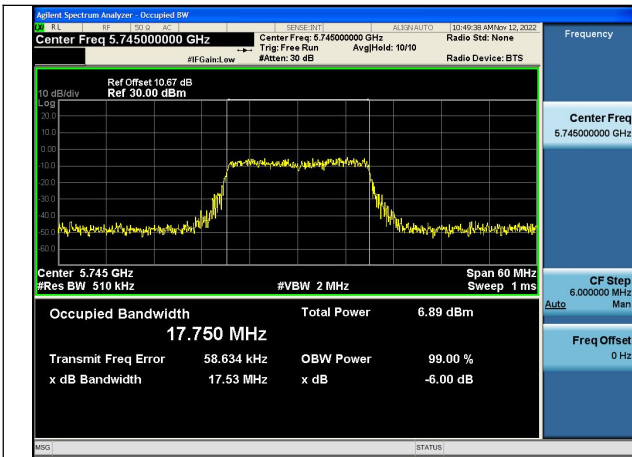


Test Mode:802.11n HT20 5785MHz Chain0

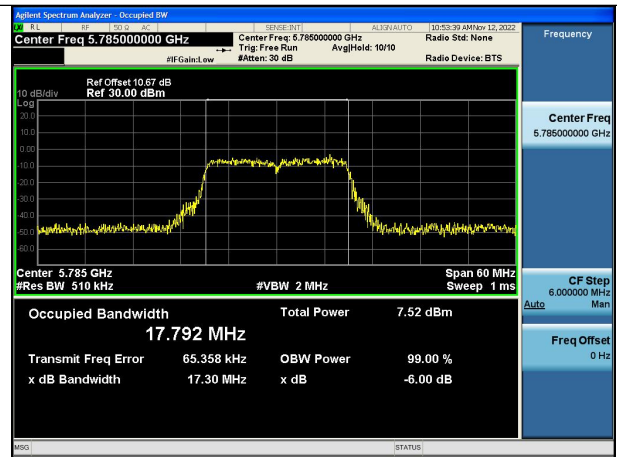


Test Mode:802.11n HT20 5825MHz Chain0

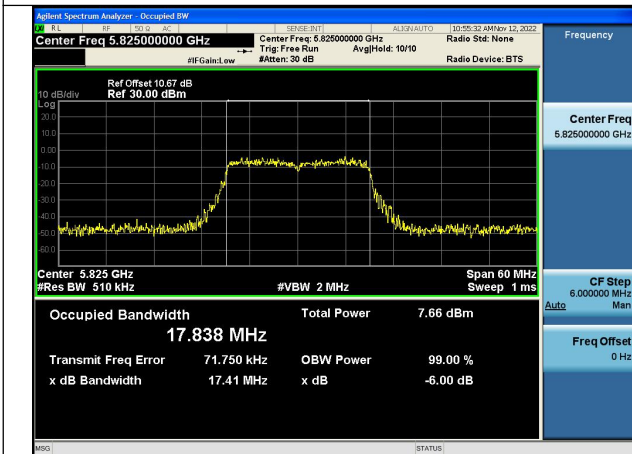
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

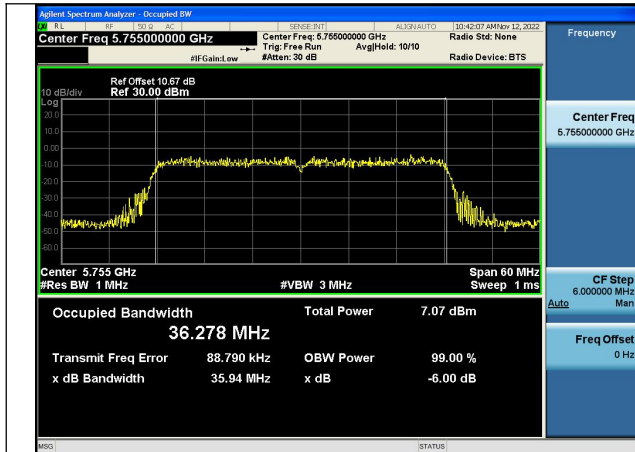


Test Mode:802.11ac VHT20 5785MHz Chain0

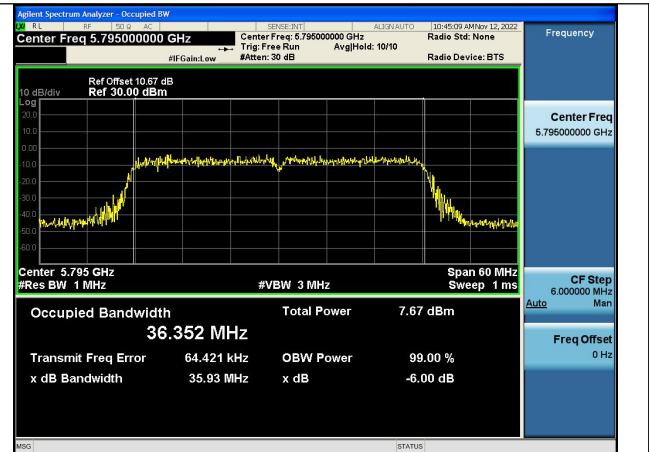


Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11n HT40

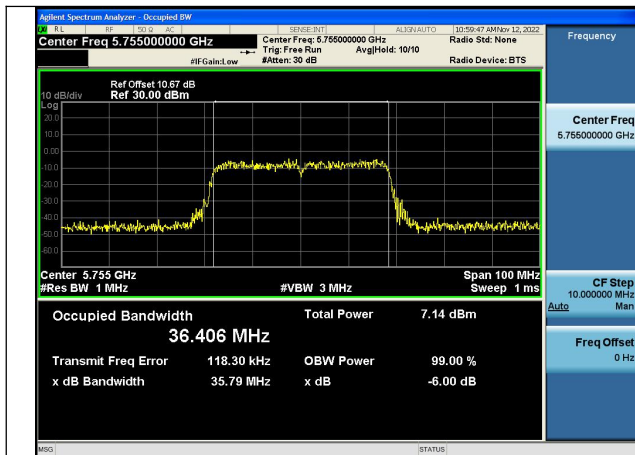


Test Mode:802.11n HT40 5755MHz Chain0

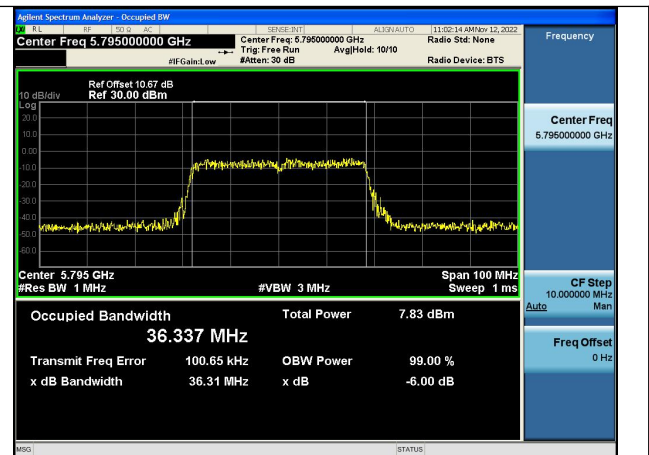


Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT40

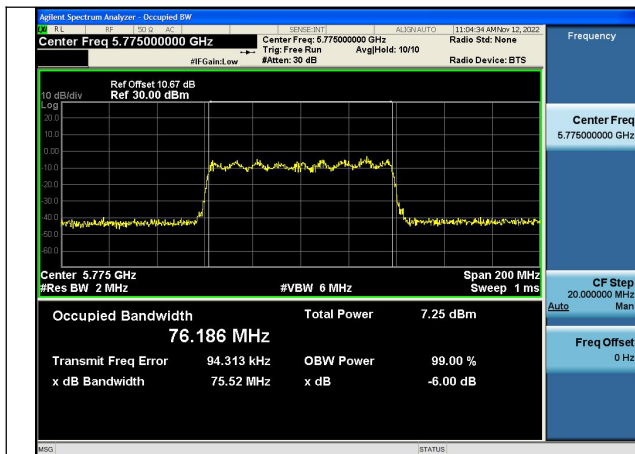


Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

6dB Bandwidth

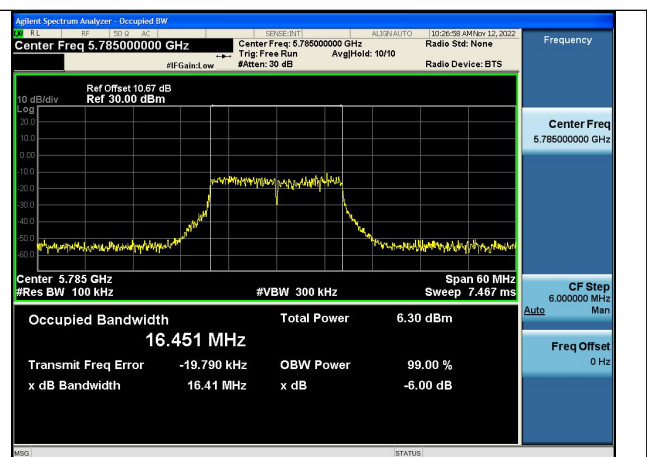
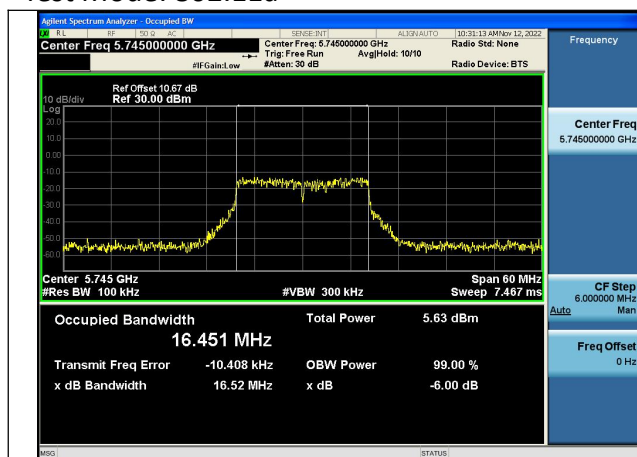
Offset 10.67dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.52	16.41	16.46
802.11n HT20	Chain0	17.53	17.37	17.69
802.11ac VHT20	Chain0	17.75	17.70	17.70

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	35.06	---	36.08
802.11ac VHT40	Chain0	36.45	---	36.03

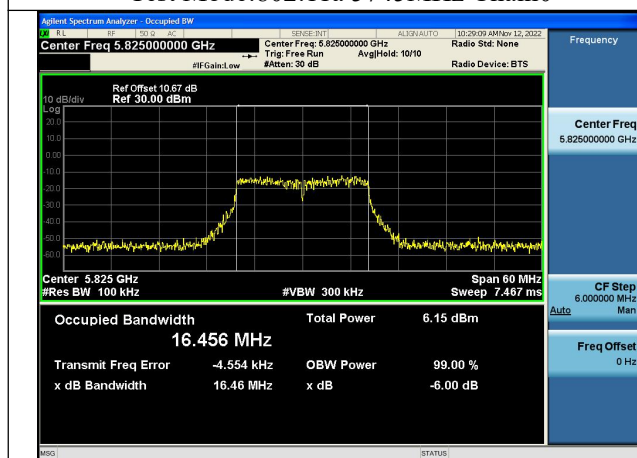
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	75.59	---	---

Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0