APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	97.49%	0.11
802.11n HT20	5745	96.99%	0.13
802.11n HT40	5755	94.57%	0.24
802.11ac VHT80	5775	90.75%	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	5745	Chain0	9.32	8.93
802.11a	NA	5785	Chain0	9.26	8.87
802.11a	NA	5825	Chain0	8.91	8.52
802.11ac VHT80	NA	5775	Chain0	7.32	6.93
802.11n HT20	NA	5745	Chain0	9.75	9.36
802.11n HT20	NA	5785	Chain0	9.59	9.20
802.11n HT20	NA	5825	Chain0	9.20	8.81
802.11n HT40	NA	5755	Chain0	9.05	8.66
802.11n HT40	NA	5795	Chain0	8.88	8.49

Emission Bandwidth

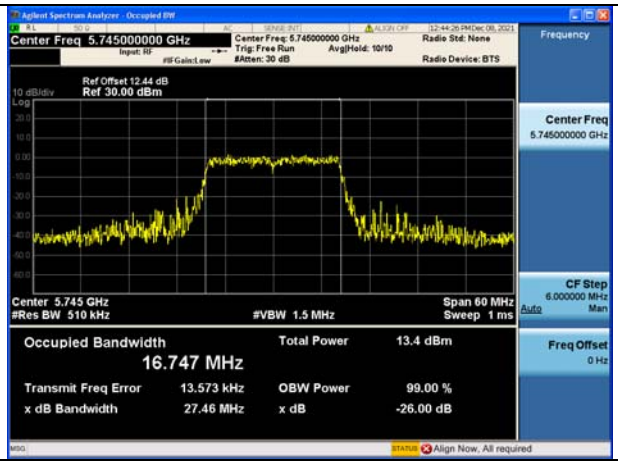
Offset 12.44dB = Attenuator 10dB + Temporary antenna connector loss 0.5dB + Cable loss 1.94dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	27.46	24.14	23.25
802.11n HT20	Chain0	27.64	23.01	29.53

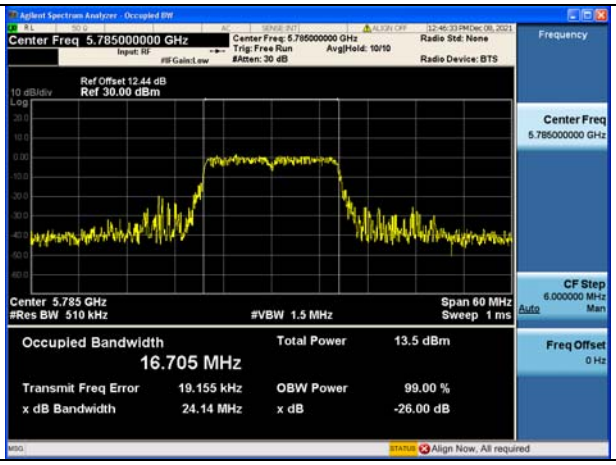
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	44.93	---	44.36

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	80.57	---	---

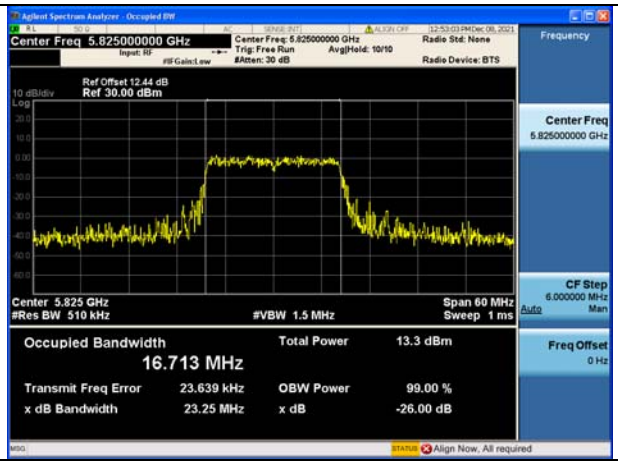
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

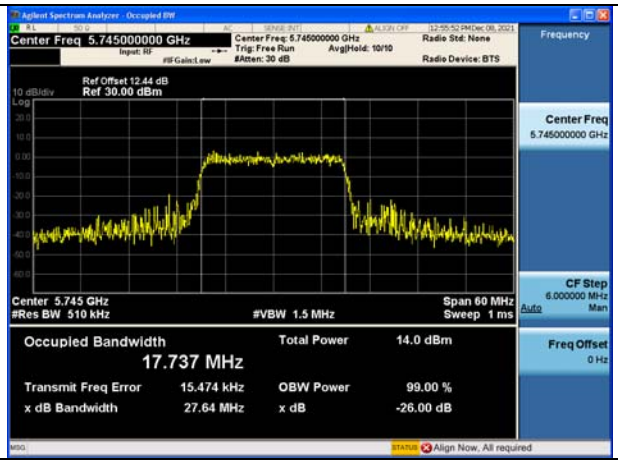


Test Mode:802.11a 5785MHz Chain0

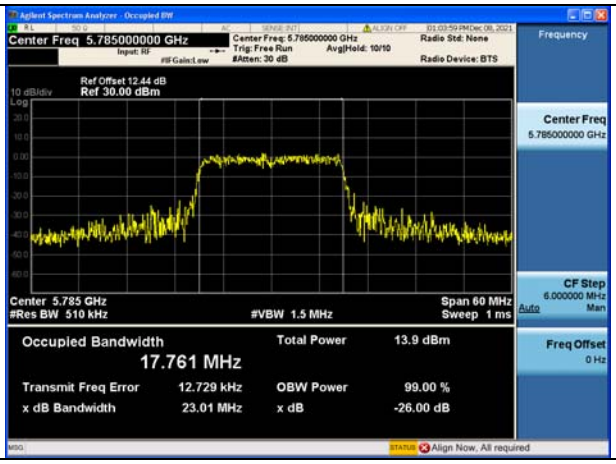


Test Mode:802.11a 5825MHz Chain0

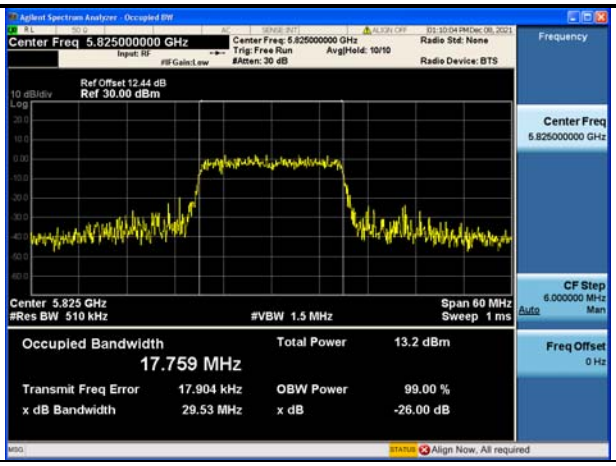
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

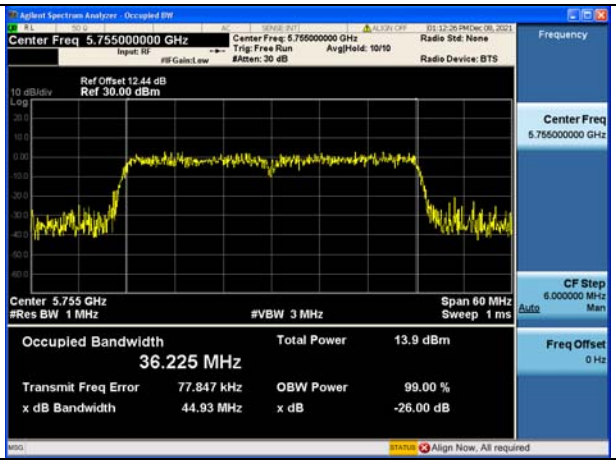


Test Mode:802.11n HT20 5785MHz Chain0

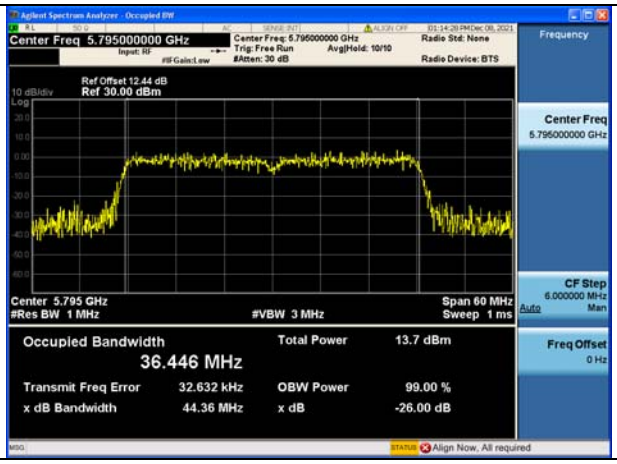


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40

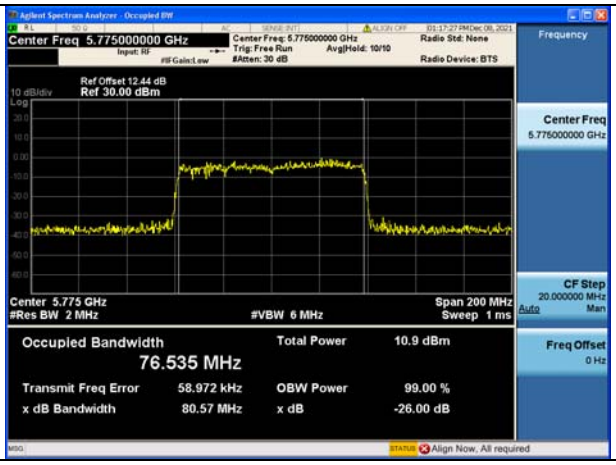


Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

Occupied Bandwidth

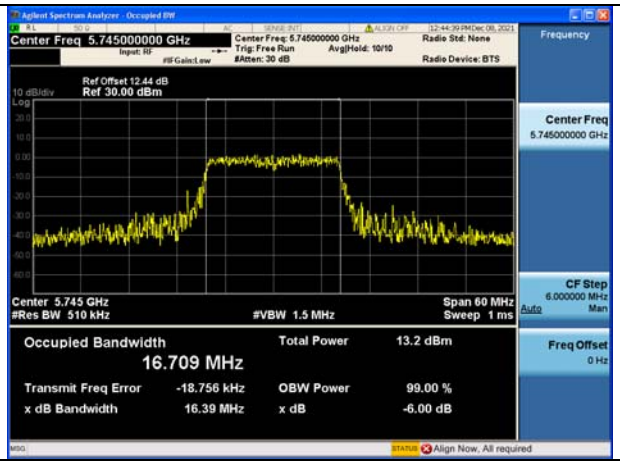
Offset 12.44dB = Attenuator 10dB + Temporary antenna connector loss 0.5dB + Cable loss 1.94dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.709	16.738	16.773
802.11n HT20	Chain0	17.831	17.763	17.764

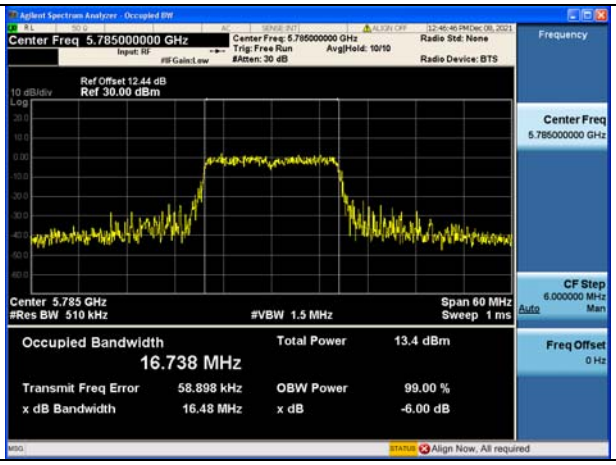
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.533	---	36.360

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.537	---	---

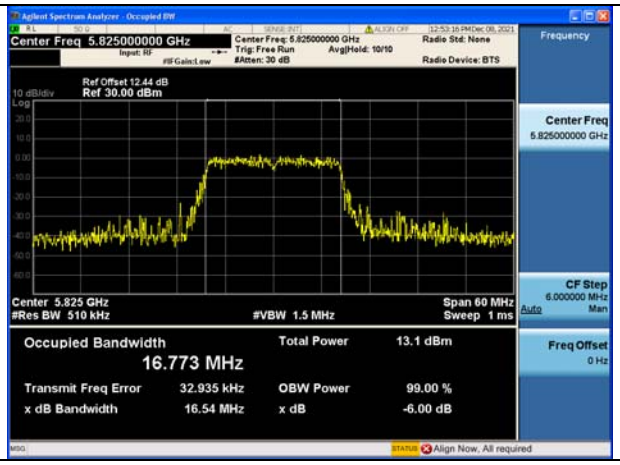
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

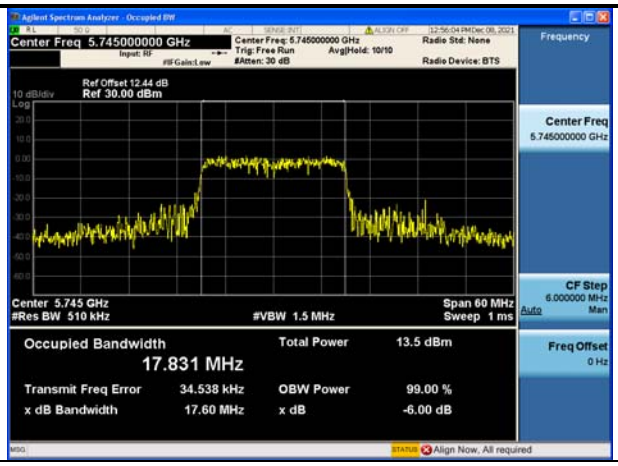


Test Mode:802.11a 5785MHz Chain0

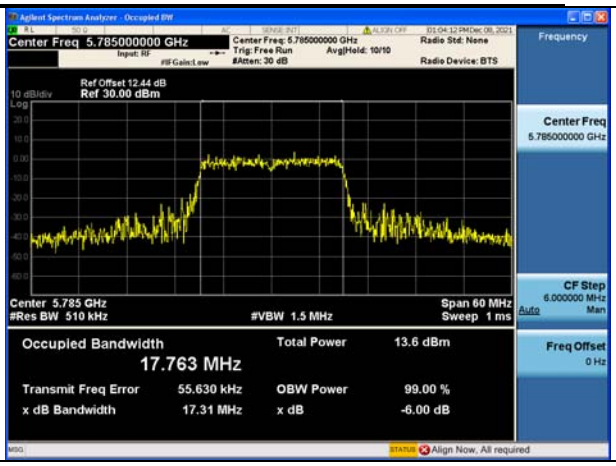


Test Mode:802.11a 5825MHz Chain0

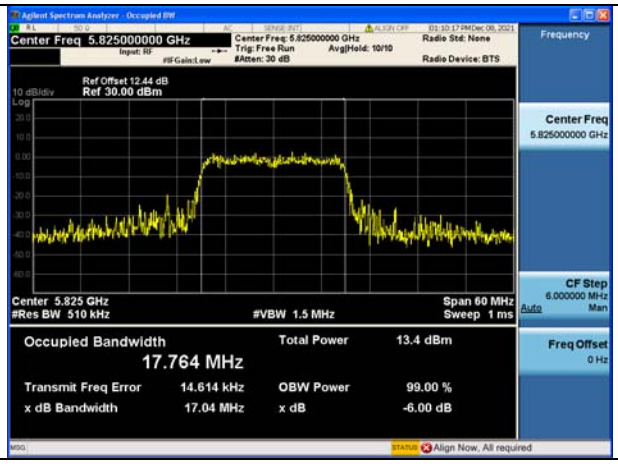
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

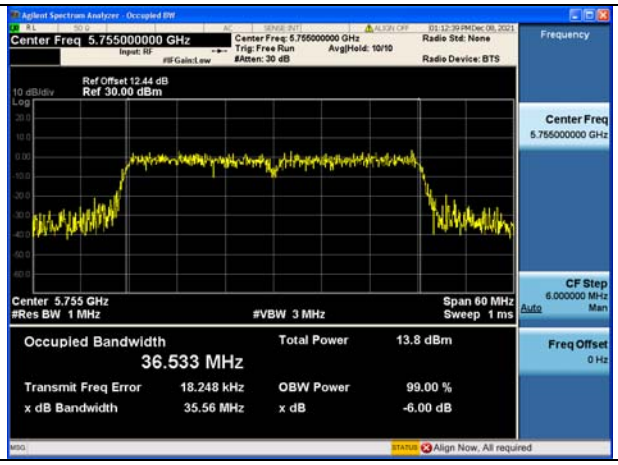


Test Mode:802.11n HT20 5785MHz Chain0

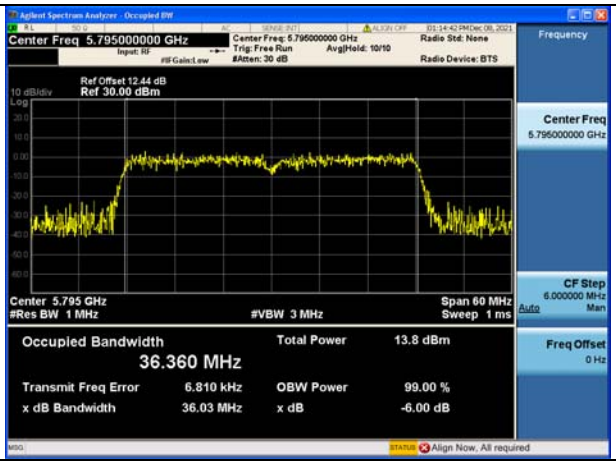


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40

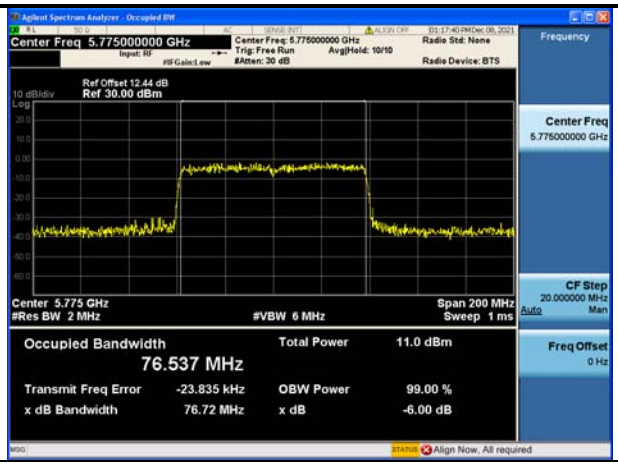


Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

6dB Bandwidth

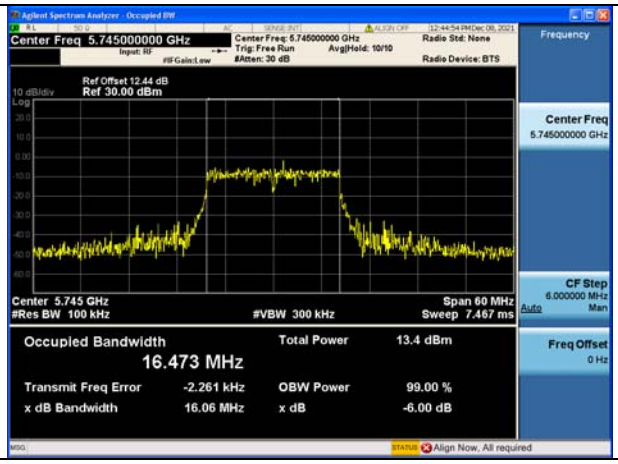
Offset 12.44dB = Attenuator 10dB + Temporary antenna connector loss 0.5dB + Cable loss 1.94dB

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.06	16.47	16.55
802.11n HT20	Chain0	17.53	17.31	17.42

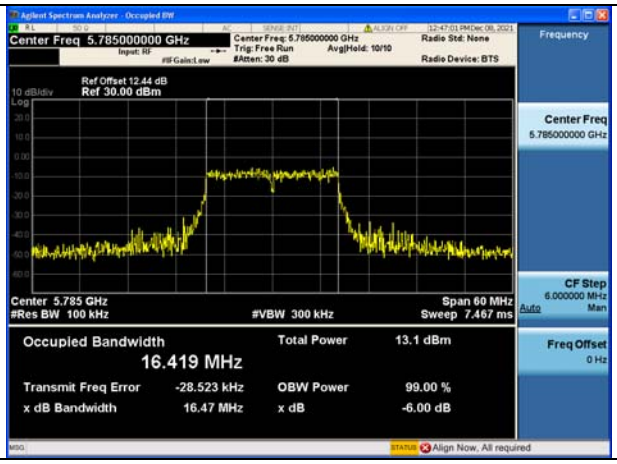
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	35.52	---	35.78

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.03	---	---

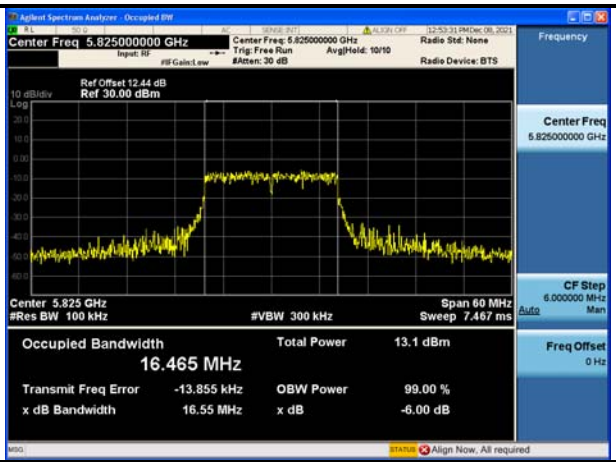
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

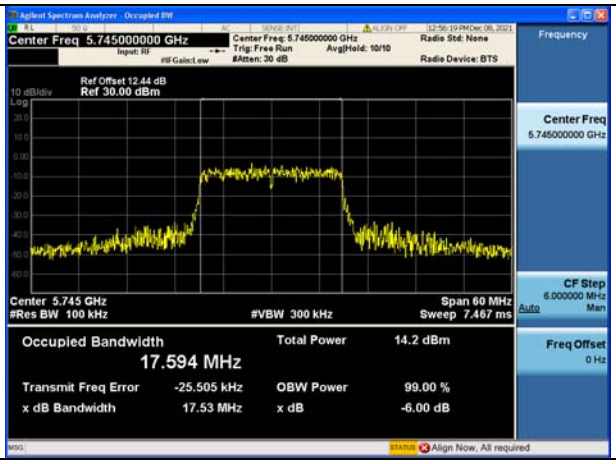


Test Mode:802.11a 5785MHz Chain0

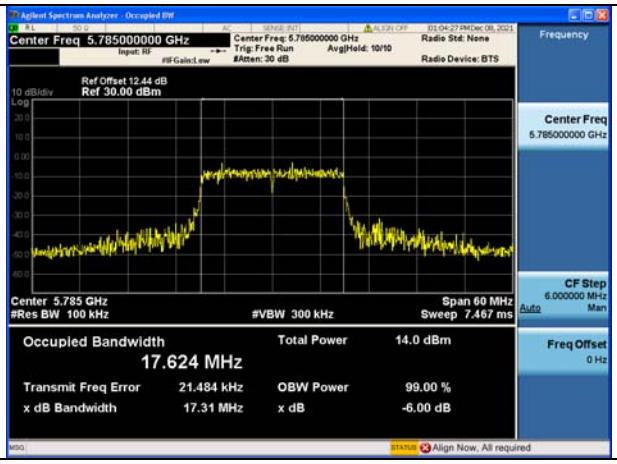


Test Mode:802.11a 5825MHz Chain0

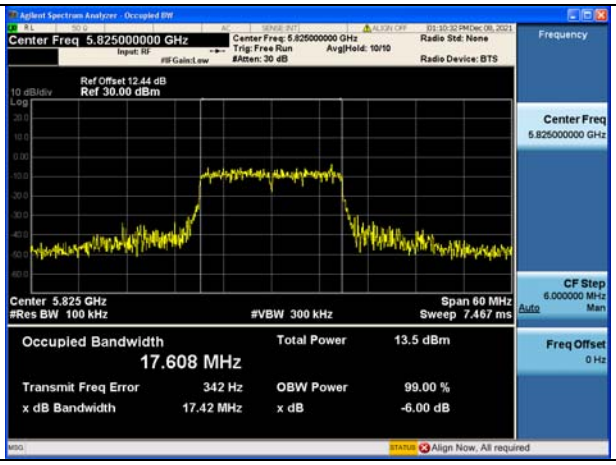
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

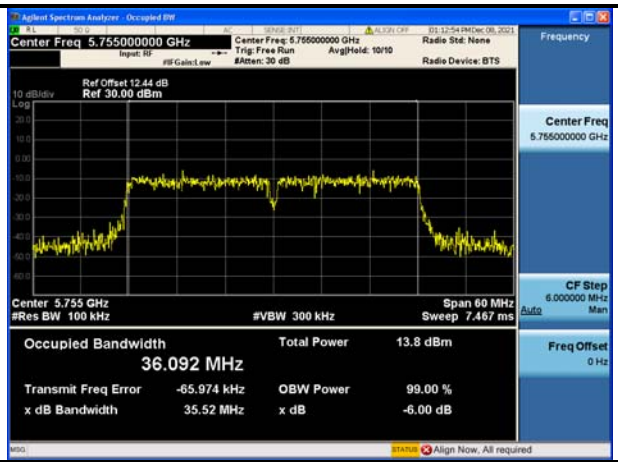


Test Mode:802.11n HT20 5785MHz Chain0

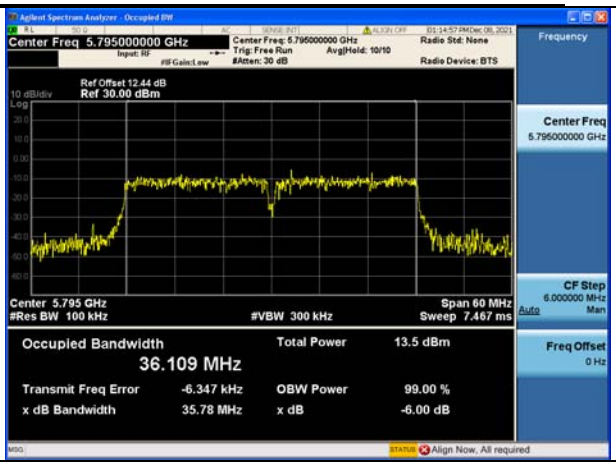


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40

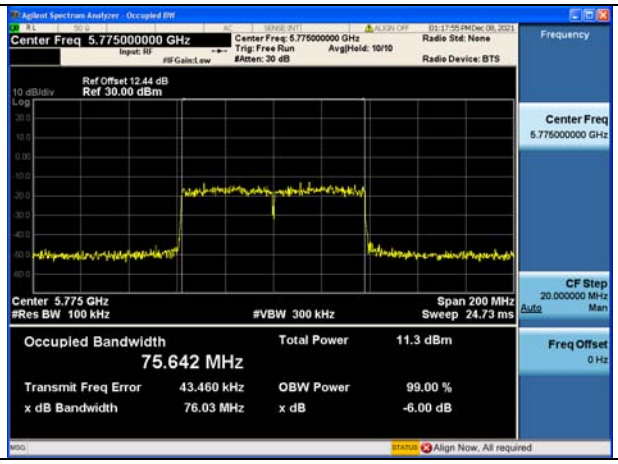


Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0

Transmitter Power Spectral Density

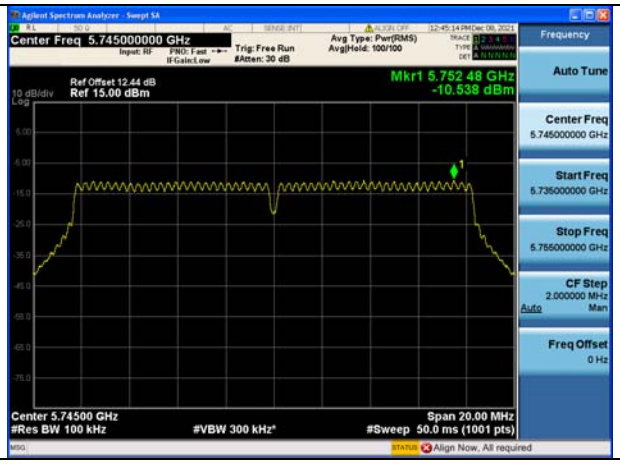
Offset 12.44dB = Attenuator 10dB + Temporary antenna connector loss 0.5dB + Cable loss 1.94dB

Test Mode	Antenna	5745MHz		5785MHz		5825MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11a	Chain0	0.11	-9.839	0.11	-10.321	0.11	-10.295
802.11n HT20	Chain0	0.13	-10.281	0.13	-10.371	0.13	-10.553

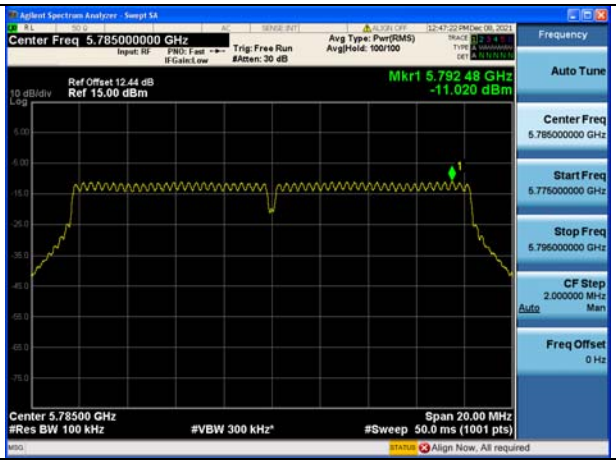
Test Mode	Antenna	5755MHz		---		5795MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11n HT40	Chain0	0.24	-13.570	---	---	0.24	-14.017

Test Mode	Antenna	5775MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11ac VHT80	Chain0	0.42	-17.846	---	---	---	---

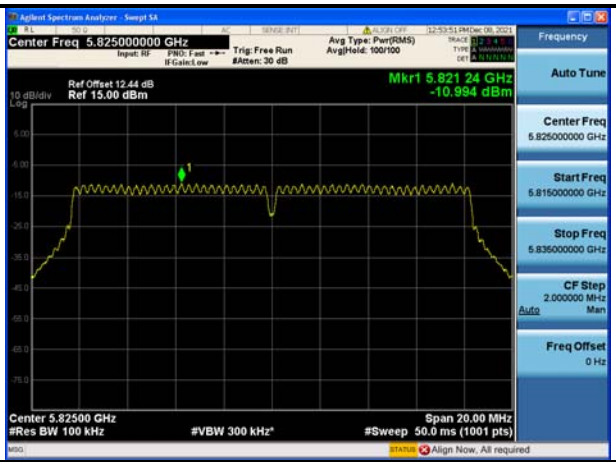
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

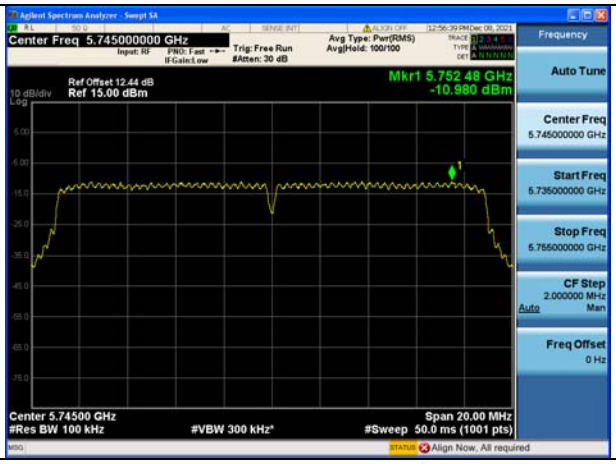


Test Mode:802.11a 5785MHz Chain0

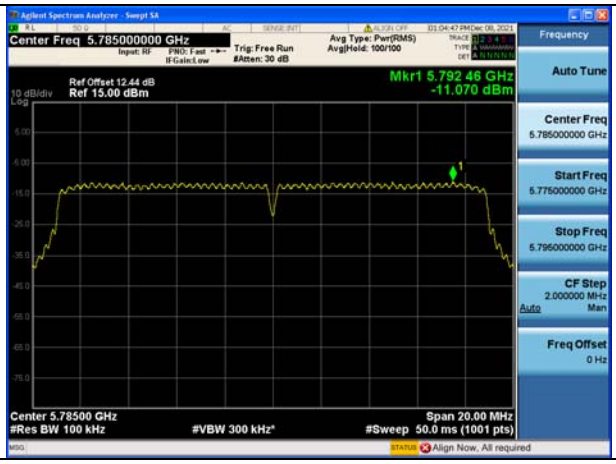


Test Mode:802.11a 5825MHz Chain0

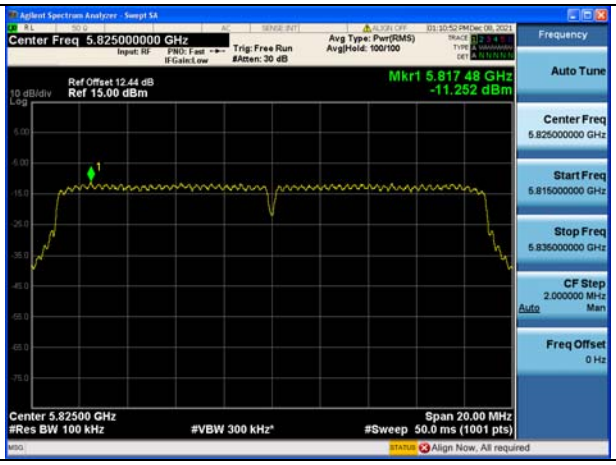
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

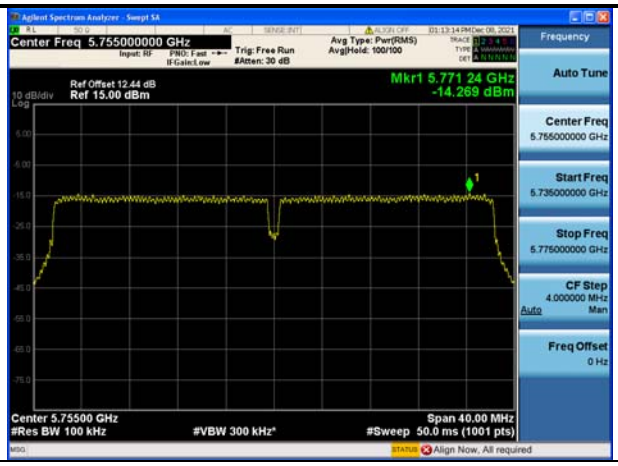


Test Mode:802.11n HT20 5785MHz Chain0

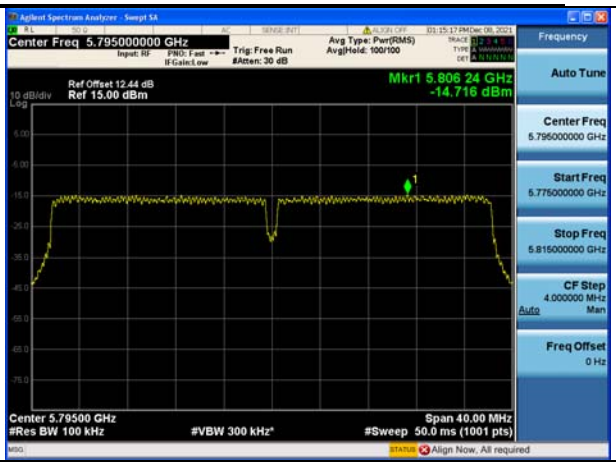


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40

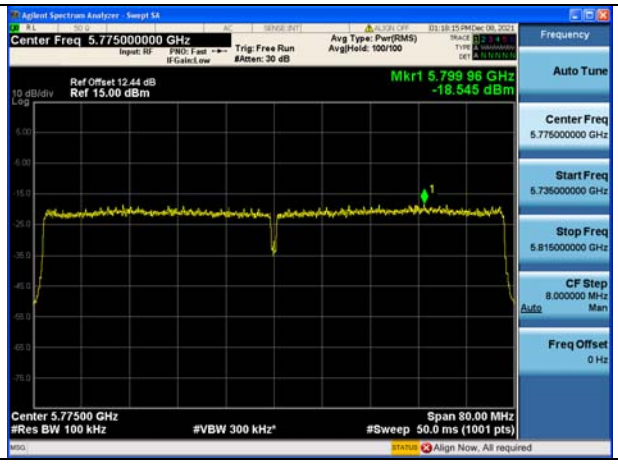


Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0