

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	94.92%	0.23
802.11n HT20	5745	94.21%	0.26
802.11ac VHT20	5745	94.04%	0.27
802.11ac VHT40	5755	89.22%	0.50
802.11ac VHT80	5775	82.70%	0.82

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	17.47	16.27
802.11a	NA	5785	Chain0	15.97	14.77
802.11a	NA	5825	Chain0	17.18	15.98
802.11n HT20	NA	5745	Chain0	17.39	16.19
802.11n HT20	NA	5785	Chain0	15.25	14.05
802.11n HT20	NA	5825	Chain0	16.52	15.32
802.11ac VHT20	NA	5745	Chain0	16.39	15.19
802.11ac VHT20	NA	5785	Chain0	14.28	13.08
802.11ac VHT20	NA	5825	Chain0	15.70	14.50
802.11ac VHT40	NA	5755	Chain0	14.78	13.58
802.11ac VHT40	NA	5795	Chain0	14.47	13.27
802.11ac VHT80	NA	5775	Chain0	12.75	11.55

Emission Bandwidth

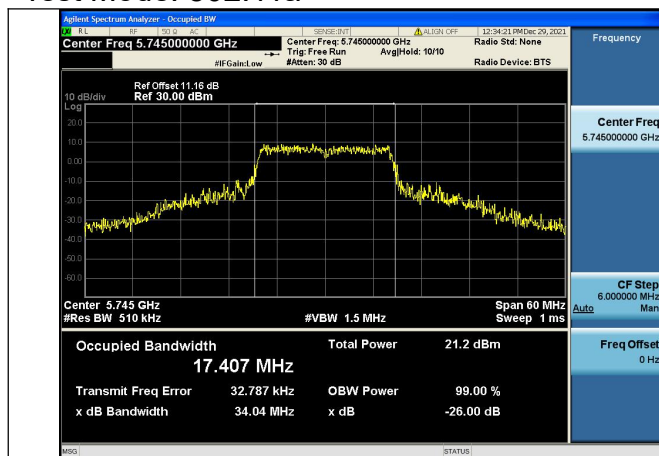
Offset 11.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	34.04	25.12	28.57
802.11n HT20	Chain0	31.85	23.59	25.83
802.11ac VHT20	Chain0	31.88	26.53	29.72

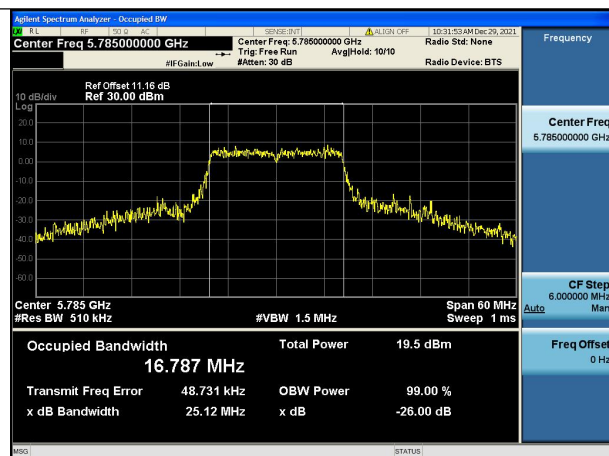
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11ac VHT40	Chain0	47.70	---	39.72

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	81.07	---	---

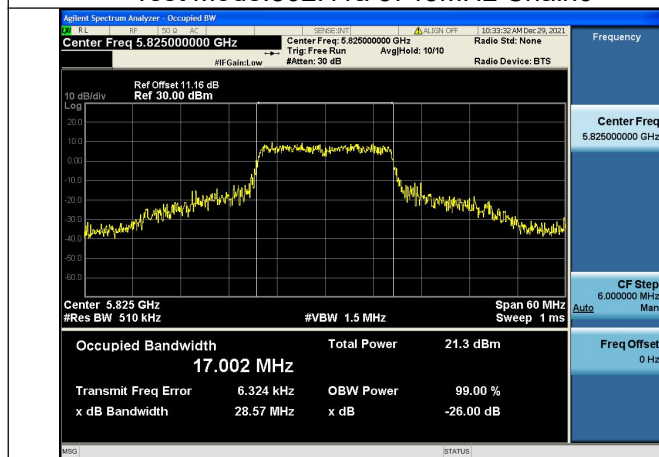
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

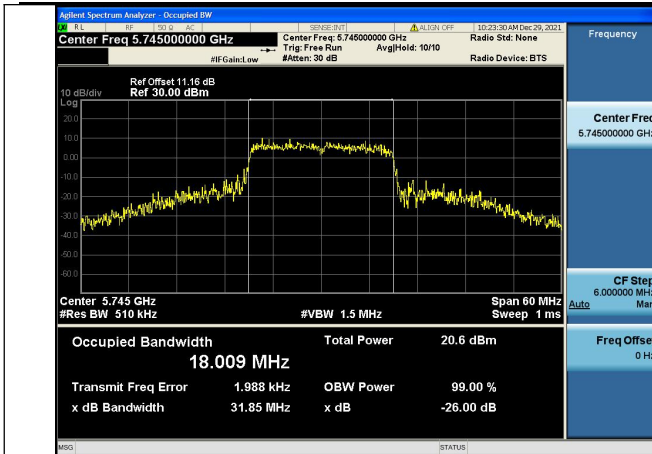


Test Mode:802.11a 5785MHz Chain0

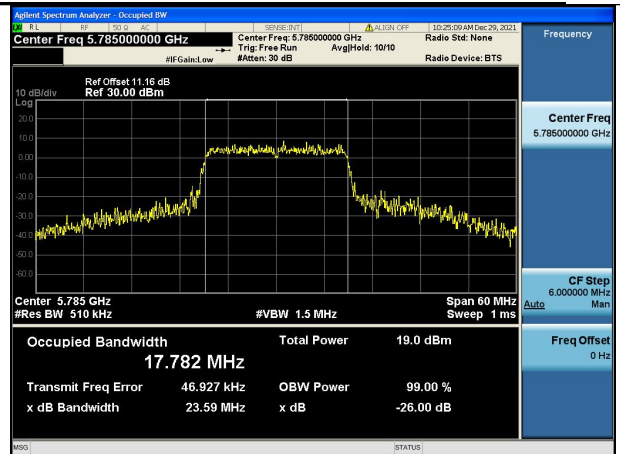


Test Mode:802.11a 5825MHz Chain0

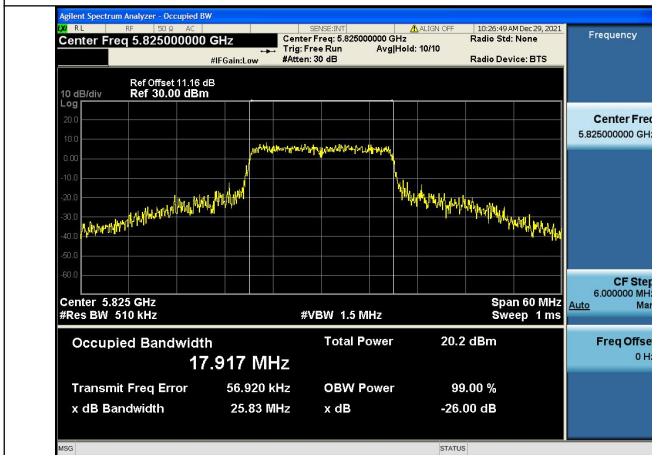
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

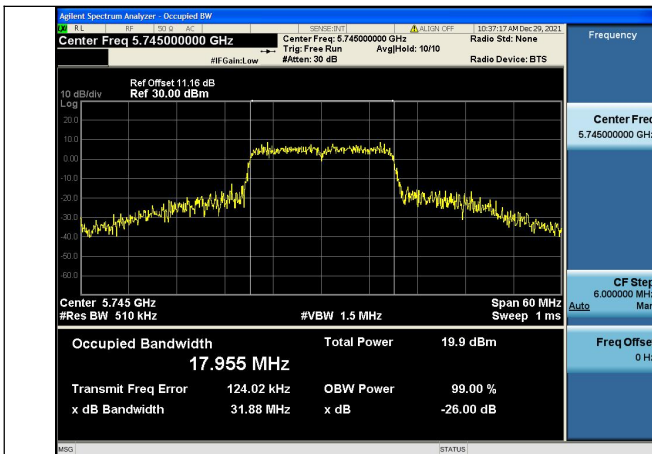


Test Mode:802.11n HT20 5785MHz Chain0

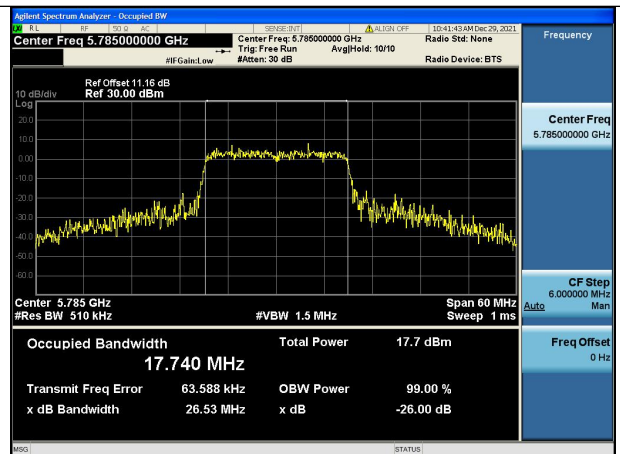


Test Mode:802.11n HT20 5825MHz Chain0

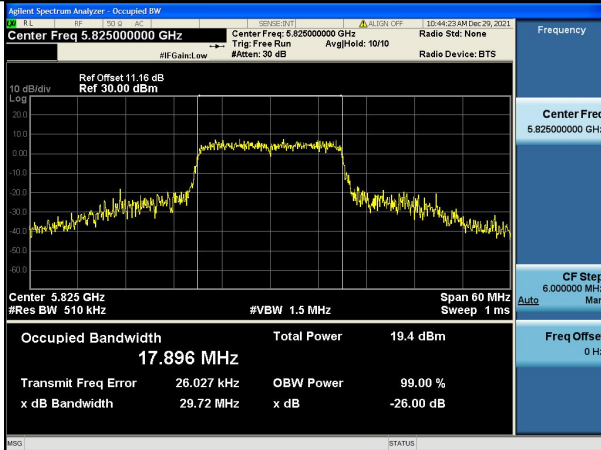
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

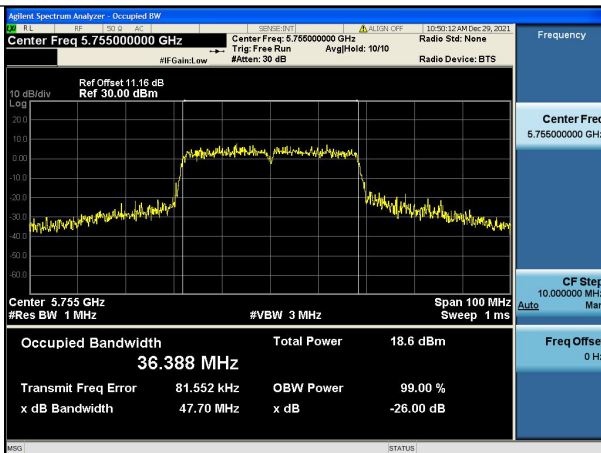


Test Mode:802.11ac VHT20 5785MHz Chain0



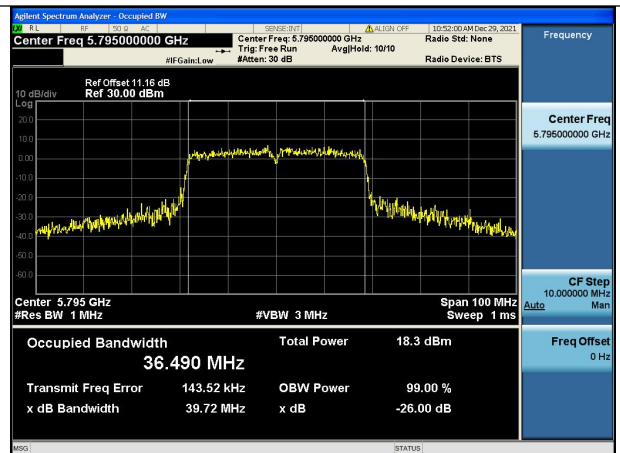
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11ac VHT40

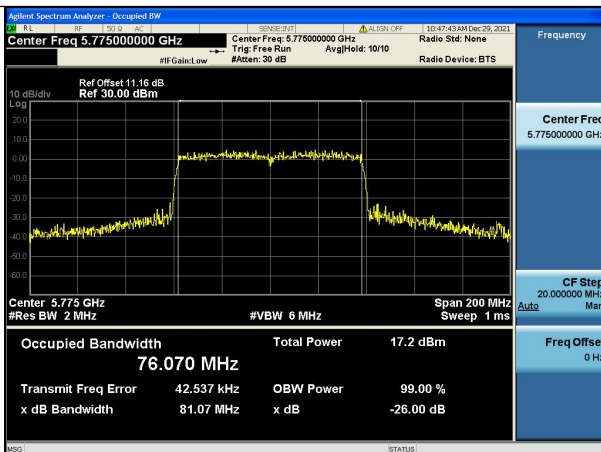


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain0

Occupied Bandwidth

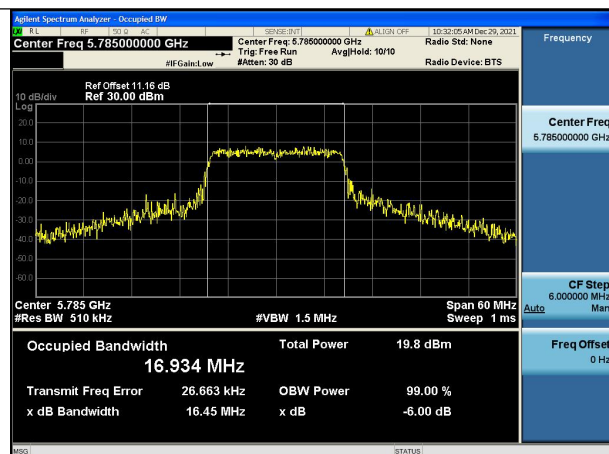
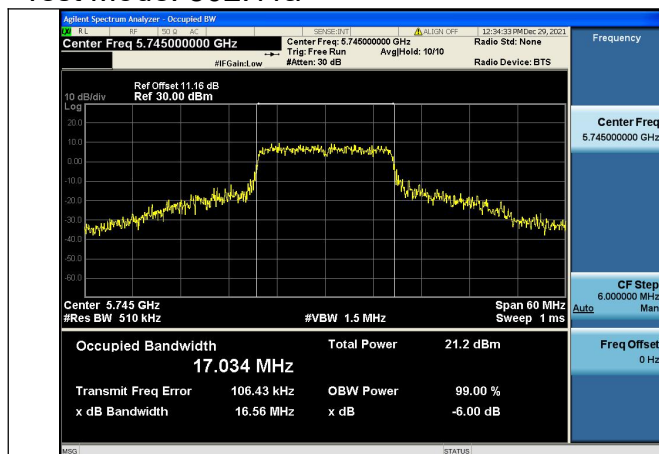
Offset 11.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	17.034	16.934	17.044
802.11n HT20	Chain0	18.158	17.789	17.899
802.11ac VHT20	Chain0	17.837	17.767	17.858

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11ac VHT40	Chain0	36.490	---	36.422

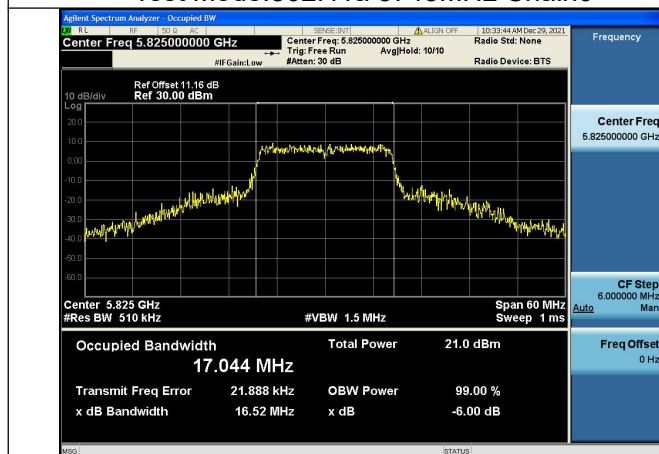
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.164	---	---

Test Mode: 802.11a



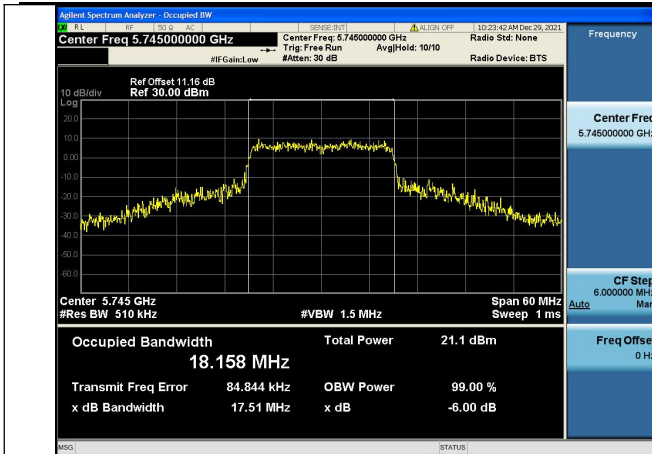
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

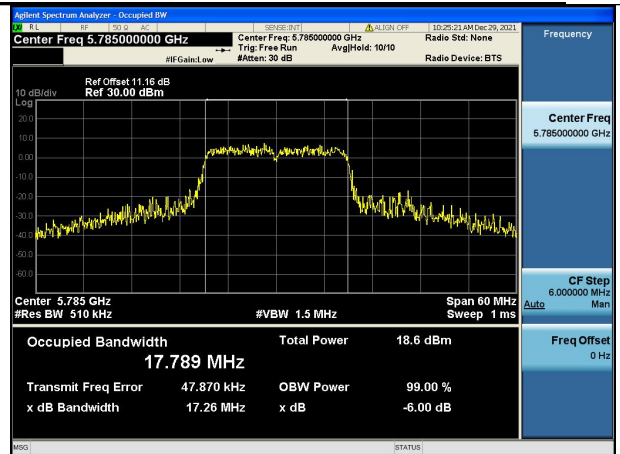


Test Mode:802.11a 5825MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

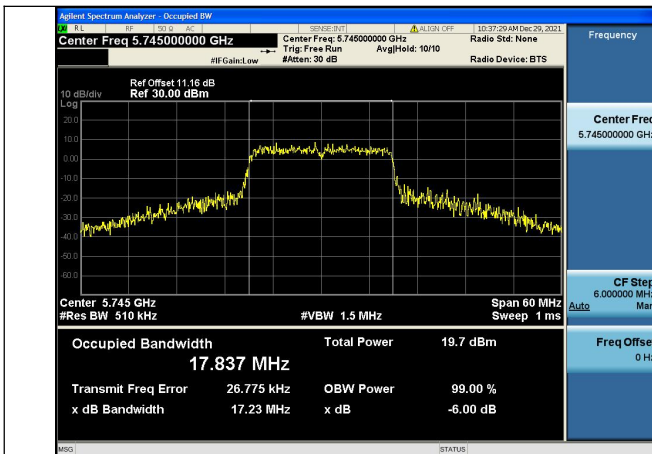


Test Mode:802.11n HT20 5785MHz Chain0

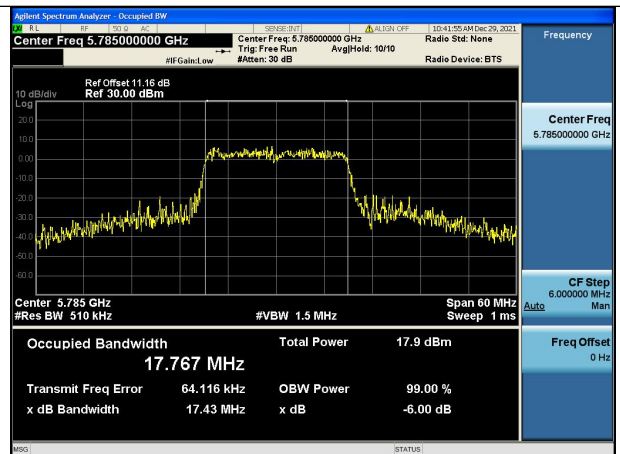


Test Mode:802.11n HT20 5825MHz Chain0

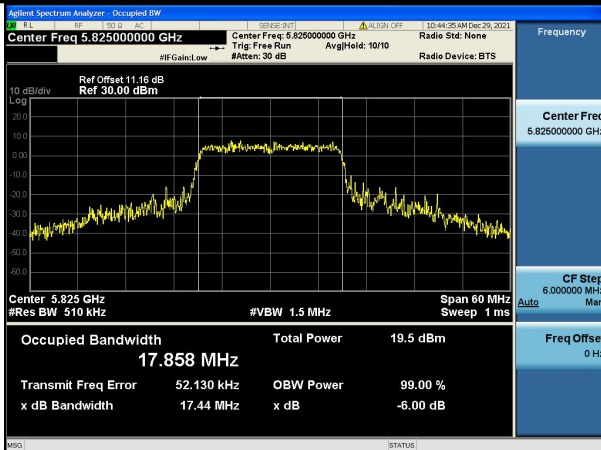
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

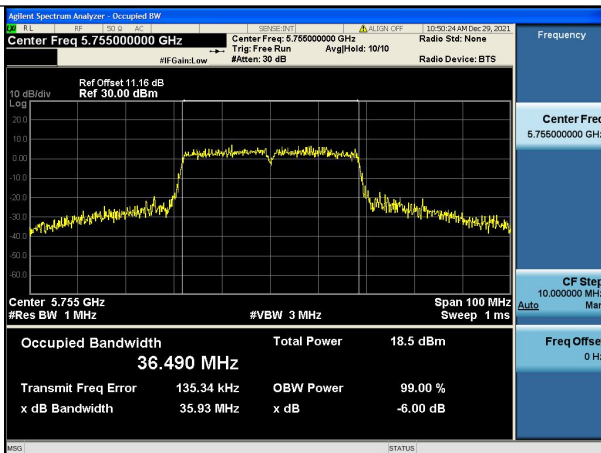


Test Mode:802.11ac VHT20 5785MHz Chain0



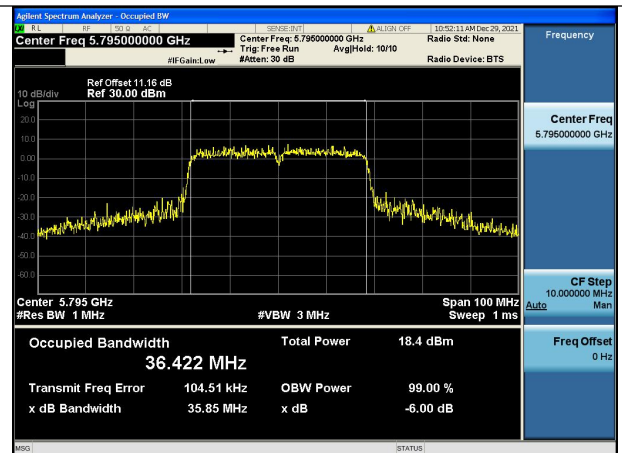
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11ac VHT40

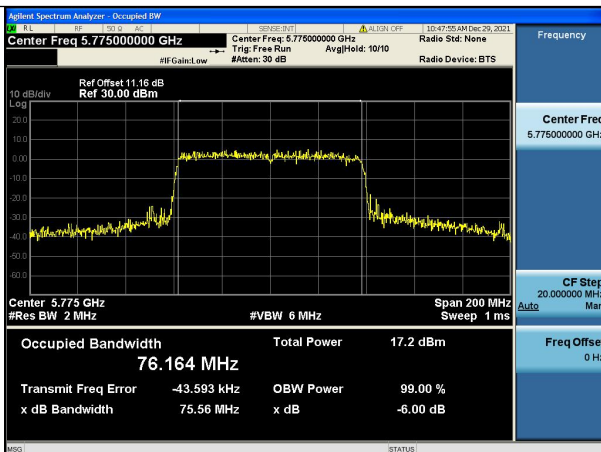


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain0

6dB Bandwidth

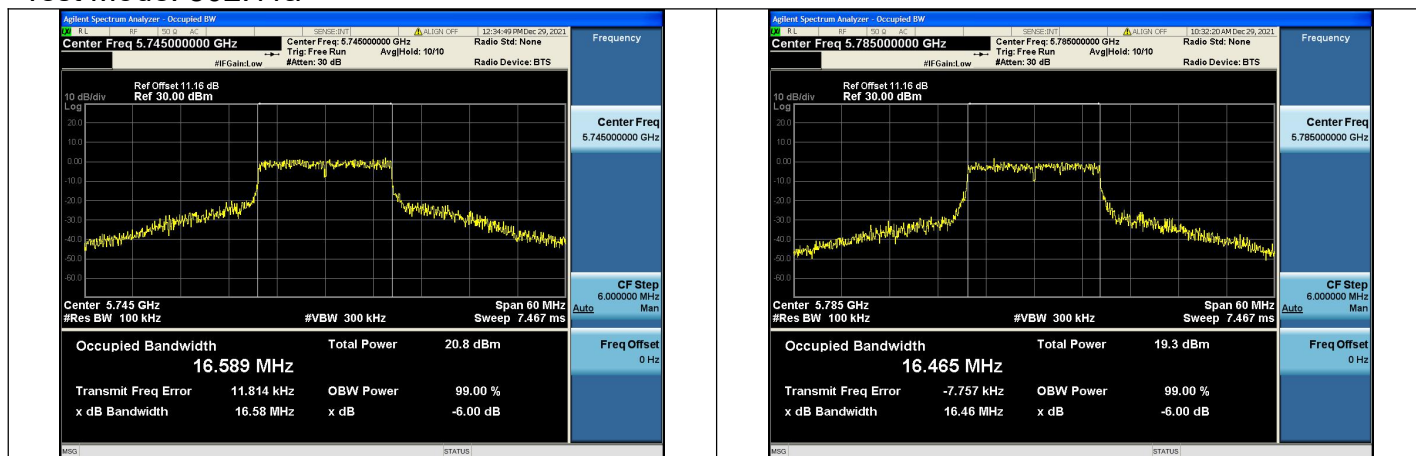
Offset 11.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.58	16.46	16.56
802.11n HT20	Chain0	17.64	17.66	17.31
802.11ac VHT20	Chain0	17.58	17.38	17.56

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11ac VHT40	Chain0	35.66	---	36.36

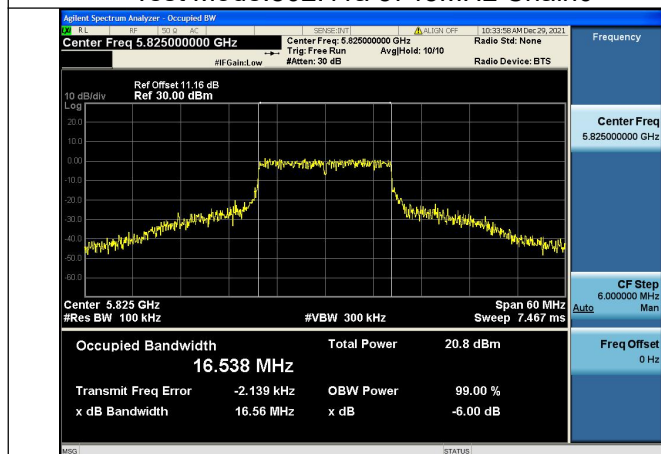
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.02	---	---

Test Mode: 802.11a



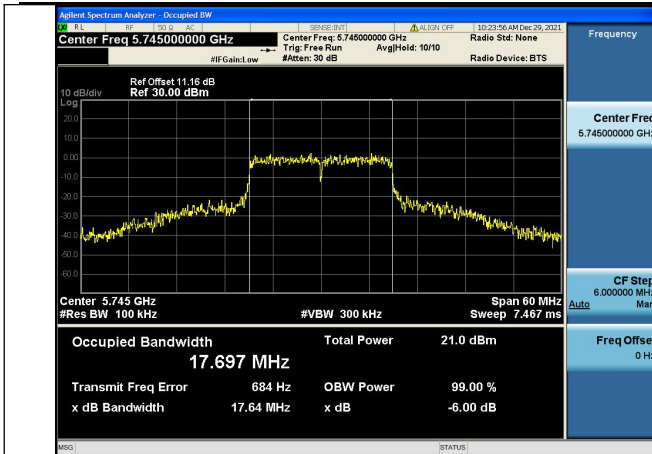
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

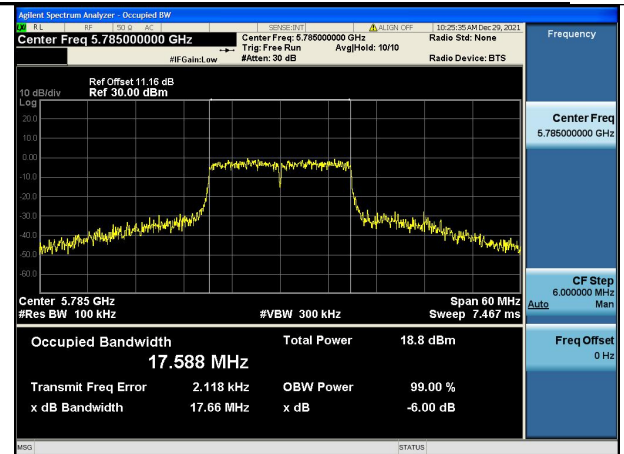


Test Mode:802.11a 5825MHz Chain0

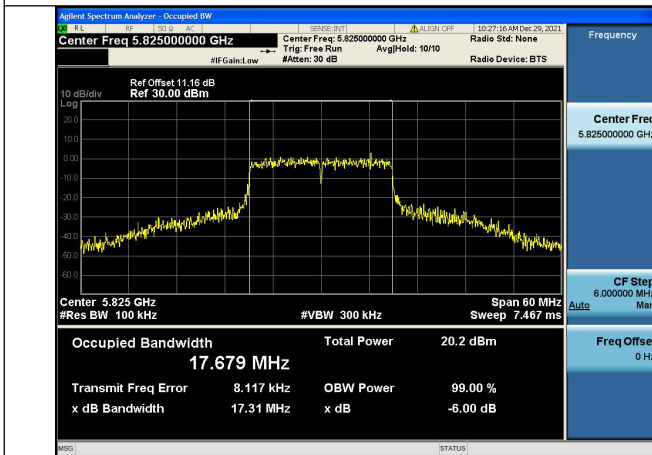
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

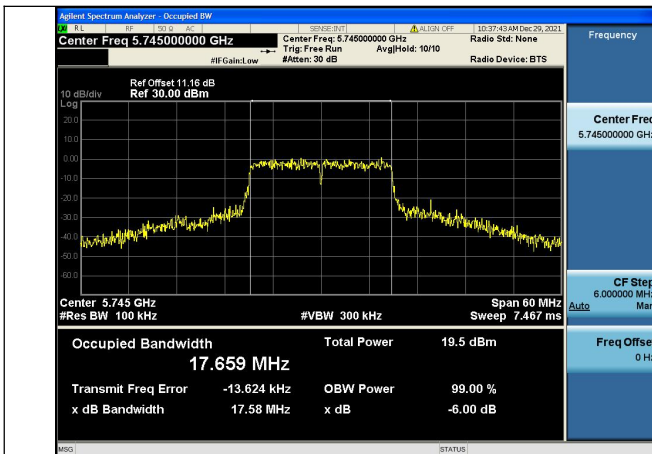


Test Mode:802.11n HT20 5785MHz Chain0

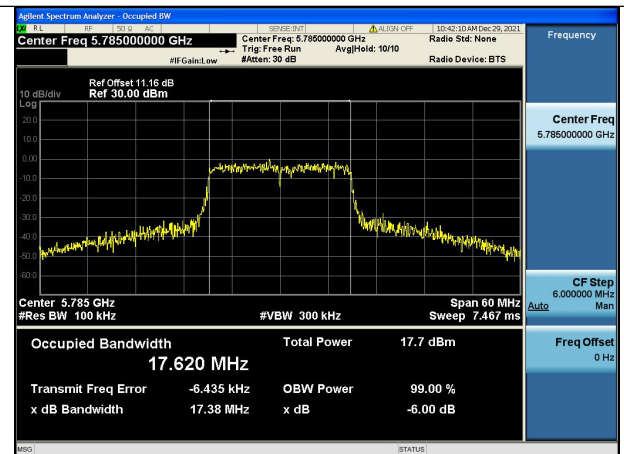


Test Mode:802.11n HT20 5825MHz Chain0

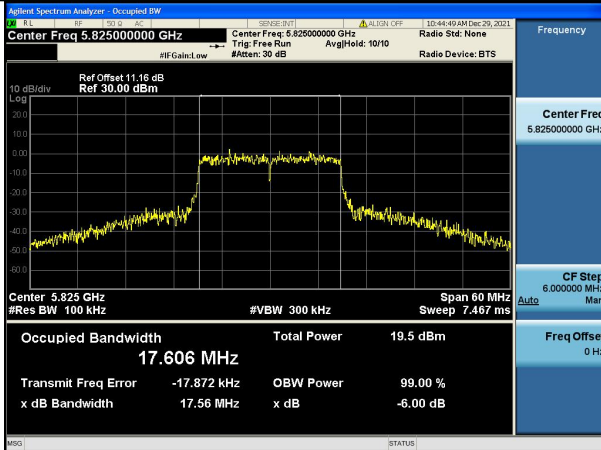
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5745MHz Chain0

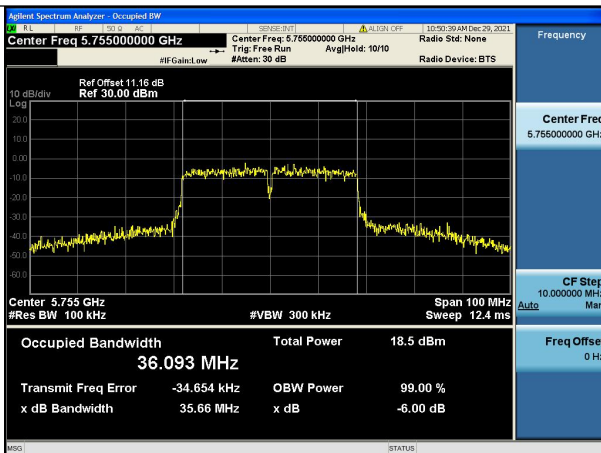


Test Mode:802.11ac VHT20 5785MHz Chain0



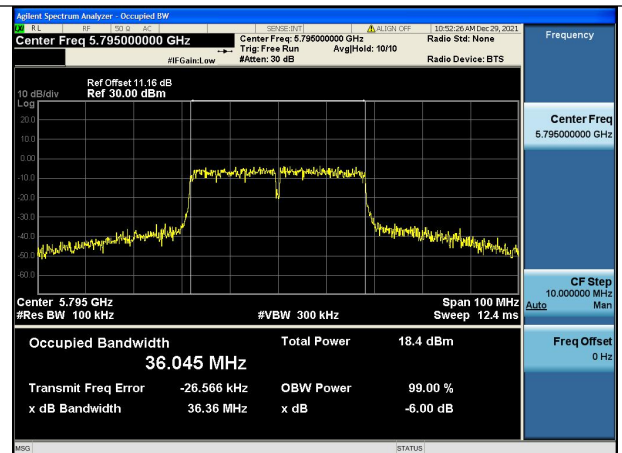
Test Mode:802.11ac VHT20 5825MHz Chain0

Test Mode: 802.11ac VHT40

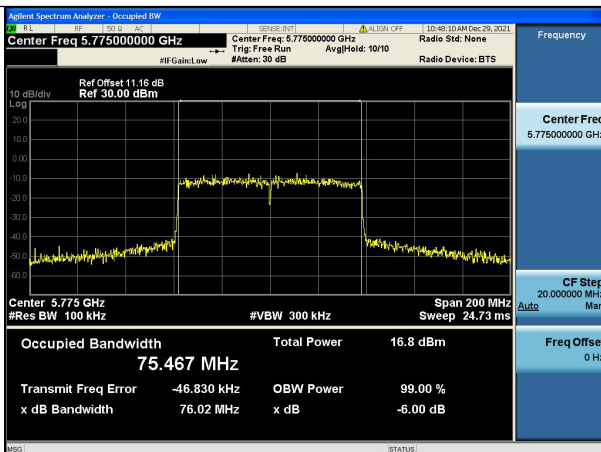


Test Mode:802.11ac VHT40 5755MHz Chain0

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain0

Transmitter Power Spectral Density

Offset 11.16dB = Attenuator 10dB + Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

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	0.23	2.490	0.23	2.314	0.23	3.178
802.11n HT20	Chain0	0.26	2.905	0.26	2.601	0.26	3.568
802.11a c VHT20	Chain0	0.27	2.629	0.27	2.347	0.27	3.446

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

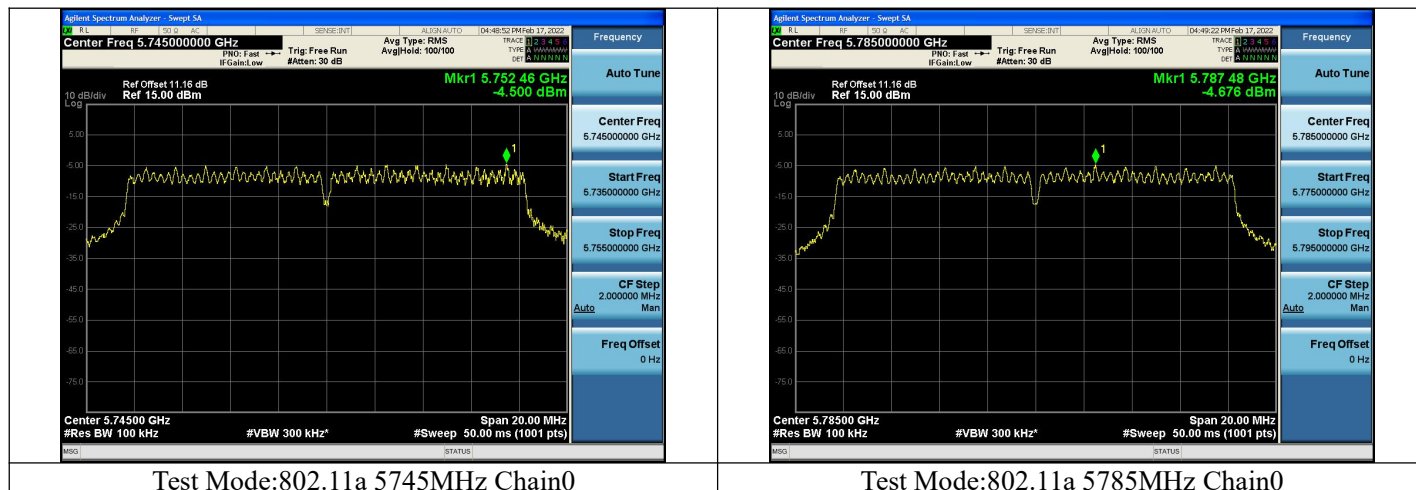
Test Mode	Antenna	5755MHz		---		5795MHz	
		Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)	Correction Factor(dB)	Power Density (dBm/500kHz)
802.11a c VHT40	Chain0	0.50	-0.778	---	---	0.50	-0.318

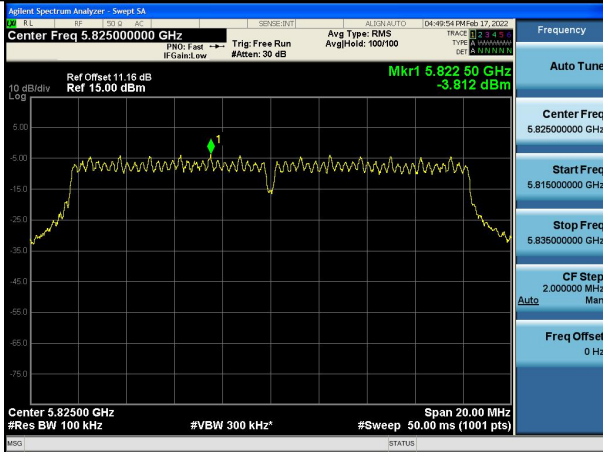
Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

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)
802.11a c VHT80	Chain0	0.82	-3.652	---	---	---	---

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

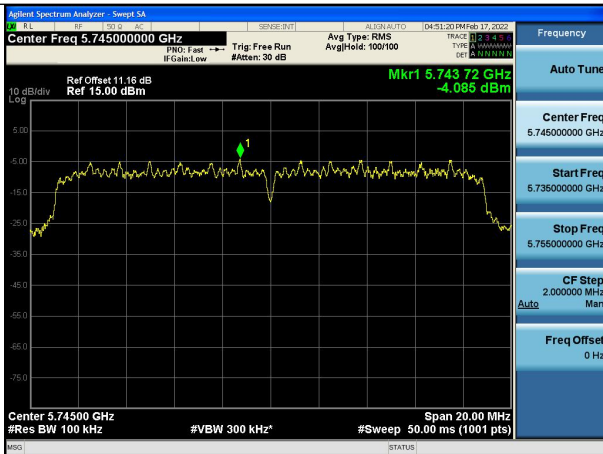
Test Mode: 802.11a



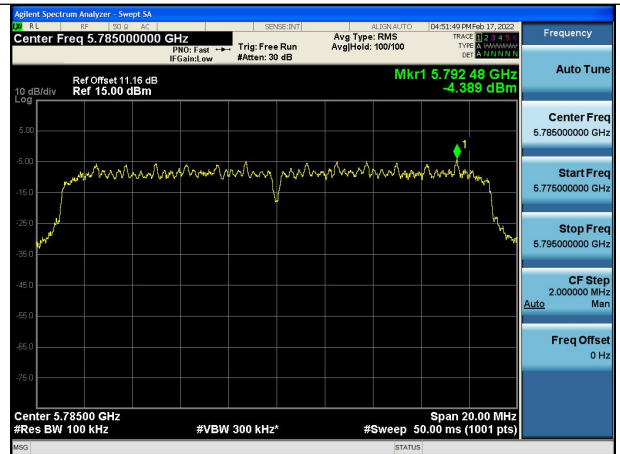


Test Mode:802.11a 5825MHz Chain0

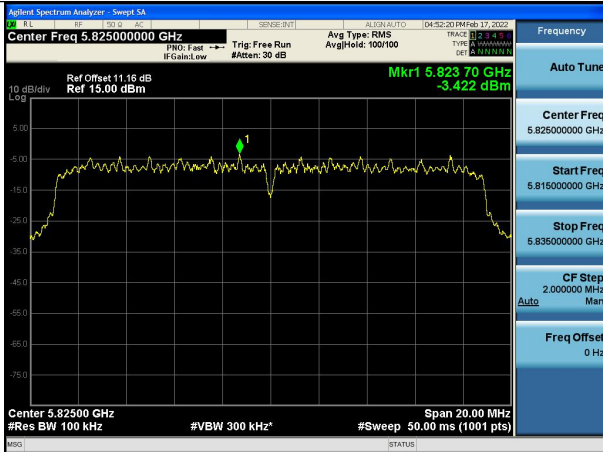
Test Mode: 802.11n HT20



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