

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

7663

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	98.75%	0
802.11a	5745	98.63%	0
802.11n HT20	5745	98.57%	0
802.11n HT20	5745	98.55%	0
802.11ac VHT20	5745	98.56%	0
802.11ac VHT20	5745	98.56%	0
802.11n HT40	5755	97.22%	0.12
802.11n HT40	5755	97.24%	0.12
802.11ac VHT40	5755	97.19%	0.12
802.11ac VHT40	5755	97.28%	0.12
802.11ac VHT80	5775	94.74%	0.23
802.11ac VHT80	5775	98.27%	0

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	15.32	15.82
802.11a	NA	5745	Chain1	14.66	15.11
802.11a	NA	5785	Chain0	15.18	15.68
802.11a	NA	5785	Chain1	14.56	15.01
802.11a	NA	5825	Chain0	15.07	15.57
802.11a	NA	5825	Chain1	14.54	14.99
802.11n HT20	NA	5745	Chain0	15.23	15.73
802.11n HT20	NA	5745	Chain1	14.54	14.99
802.11n HT20	NA	5745	MIMO	17.91	18.41
802.11n HT20	NA	5785	Chain0	15.10	15.60
802.11n HT20	NA	5785	Chain1	14.42	14.87
802.11n HT20	NA	5785	MIMO	17.78	18.28
802.11n HT20	NA	5825	Chain0	14.99	15.49
802.11n HT20	NA	5825	Chain1	14.37	14.82
802.11n HT20	NA	5825	MIMO	17.70	18.20
802.11ac VHT20	NA	5745	Chain0	15.40	15.90
802.11ac VHT20	NA	5745	Chain1	14.51	14.96
802.11ac VHT20	NA	5745	MIMO	17.99	18.49
802.11ac VHT20	NA	5785	Chain0	15.24	15.74
802.11ac VHT20	NA	5785	Chain1	14.44	14.89
802.11ac VHT20	NA	5785	MIMO	17.87	18.37
802.11ac VHT20	NA	5825	Chain0	15.12	15.62
802.11ac VHT20	NA	5825	Chain1	14.45	14.90
802.11ac VHT20	NA	5825	MIMO	17.81	18.31
802.11n HT40	NA	5755	Chain0	15.28	15.78

802.11n HT40	NA	5755	Chain1	14.54	14.99
802.11n HT40	NA	5755	MIMO	17.94	18.44
802.11n HT40	NA	5795	Chain0	15.30	15.80
802.11n HT40	NA	5795	Chain1	14.52	14.97
802.11n HT40	NA	5795	MIMO	17.94	18.44
802.11ac VHT40	NA	5755	Chain0	15.22	15.72
802.11ac VHT40	NA	5755	Chain1	14.48	14.93
802.11ac VHT40	NA	5755	MIMO	17.88	18.38
802.11ac VHT40	NA	5795	Chain0	15.08	15.58
802.11ac VHT40	NA	5795	Chain1	14.51	14.96
802.11ac VHT40	NA	5795	MIMO	17.81	18.31
802.11ac VHT80	NA	5775	Chain0	14.80	15.30
802.11ac VHT80	NA	5775	Chain1	14.08	14.53
802.11ac VHT80	NA	5775	MIMO	17.47	17.97

Emission Bandwidth

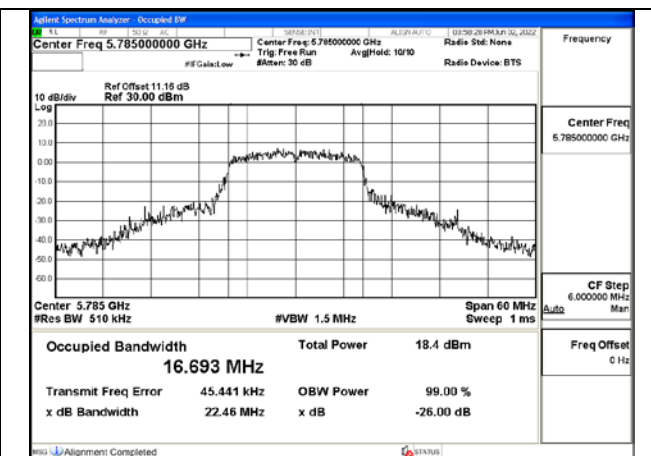
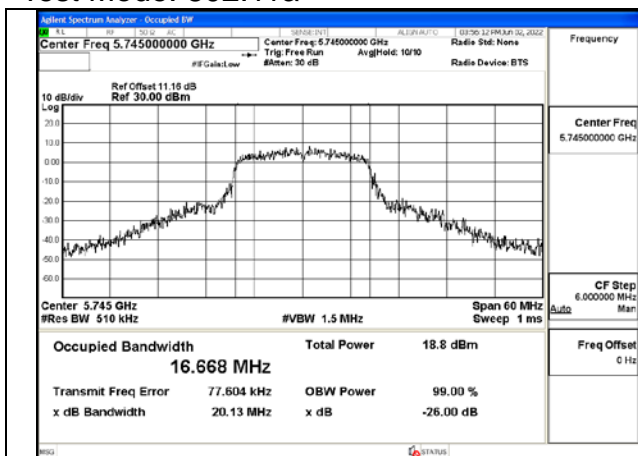
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	20.13	22.46	20.49
802.11a	Chain1	19.96	20.57	20.32
802.11n HT20	Chain0	22.92	21.01	23.14
802.11n HT20	Chain1	20.41	20.17	20.31
802.11ac VHT20	Chain0	24.04	24.59	23.12
802.11ac VHT20	Chain1	19.95	20.24	20.26

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	44.59	---	42.16
802.11n HT40	Chain1	41.22	---	43.86
802.11ac VHT40	Chain0	41.90	---	41.46
802.11ac VHT40	Chain1	40.46	---	41.37

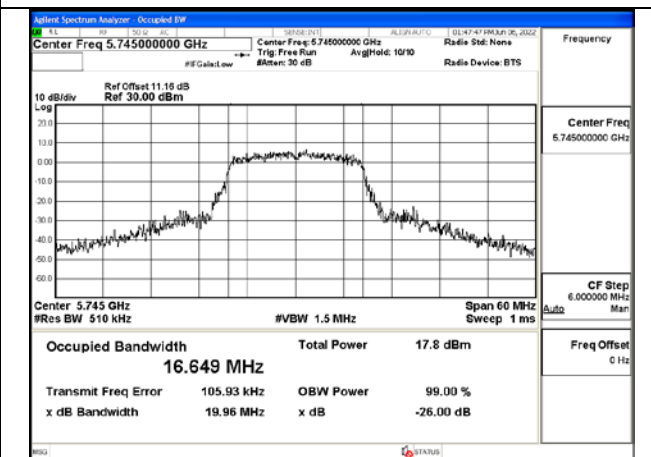
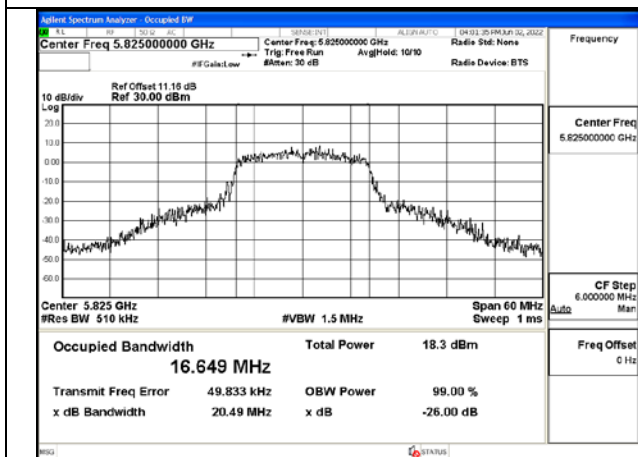
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	85.24	---	---
802.11ac VHT80	Chain1	81.32	---	---

Test Mode: 802.11a



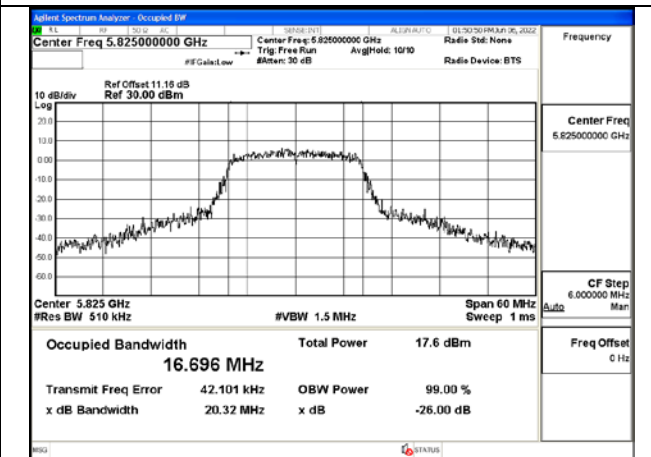
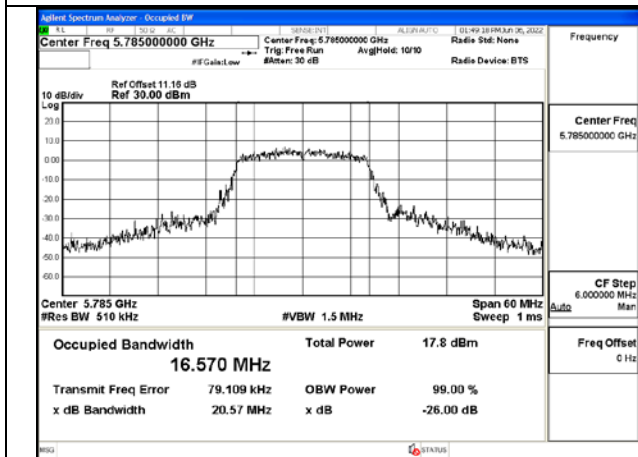
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

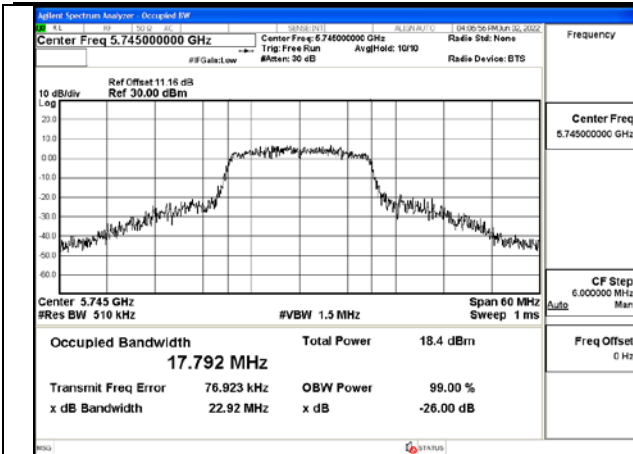
Test Mode:802.11a 5745MHz Chain1



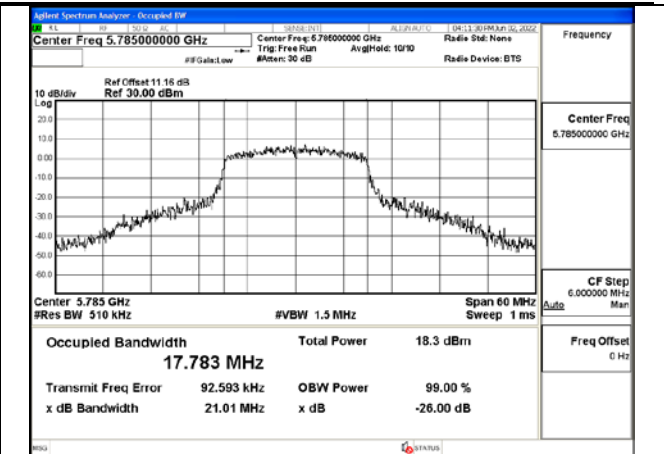
Test Mode:802.11a 5785MHz Chain1

Test Mode:802.11a 5825MHz Chain1

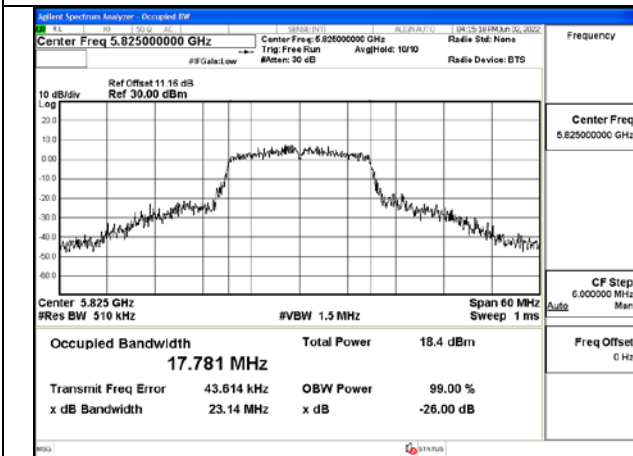
Test Mode: 802.11n HT20



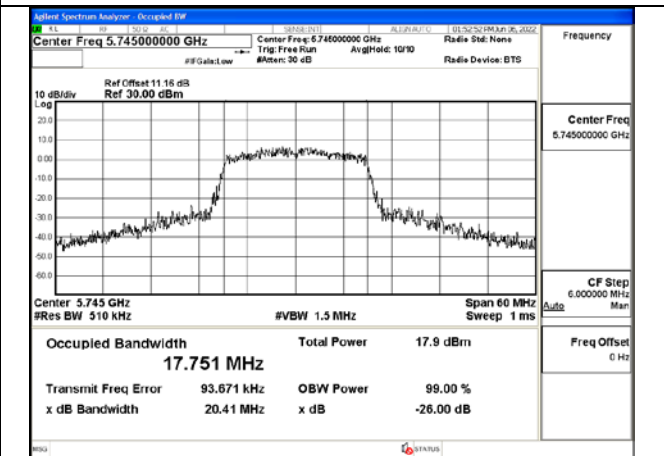
Test Mode:802.11n HT20 5745MHz Chain0



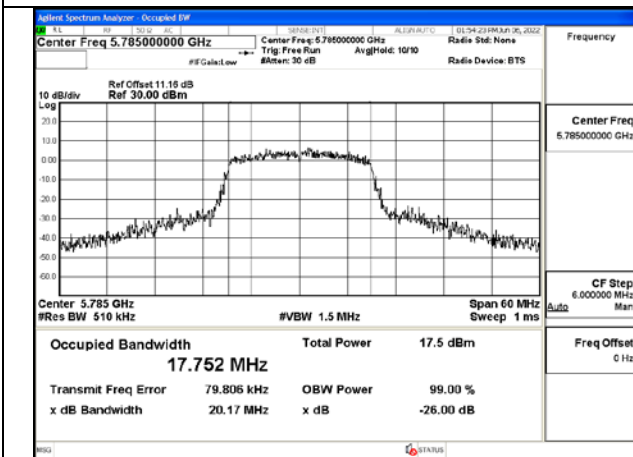
Test Mode:802.11n HT20 5785MHz Chain0



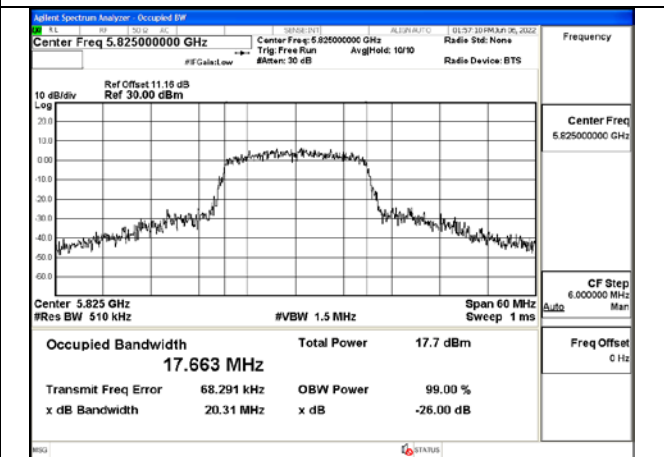
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

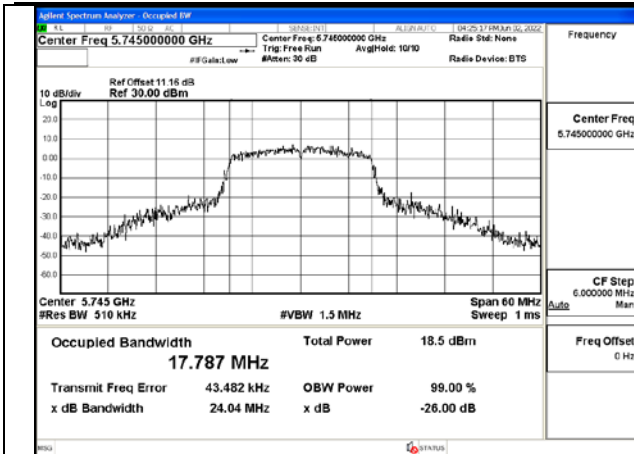


Test Mode:802.11n HT20 5785MHz Chain1

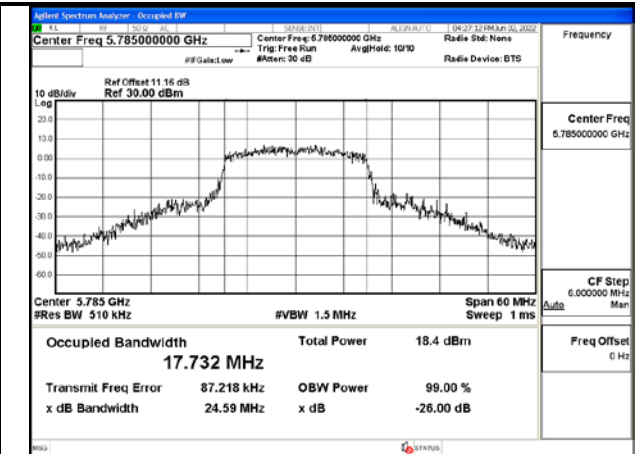


Test Mode:802.11n HT20 5825MHz Chain1

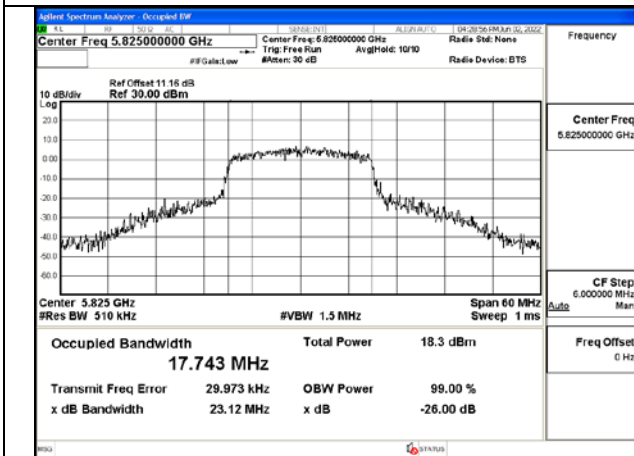
Test Mode: 802.11ac VHT20



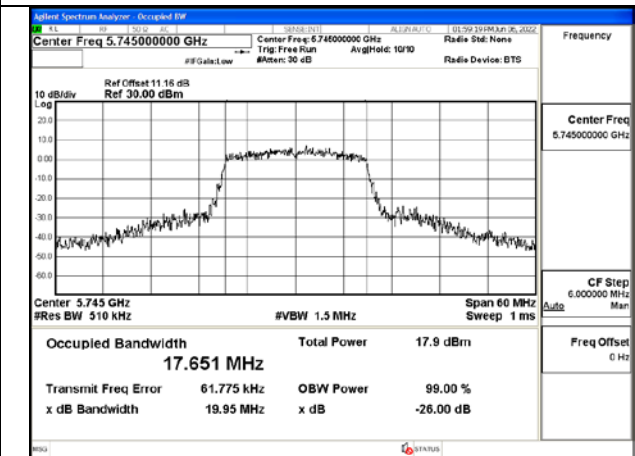
Test Mode:802.11ac VHT20 5745MHz Chain0



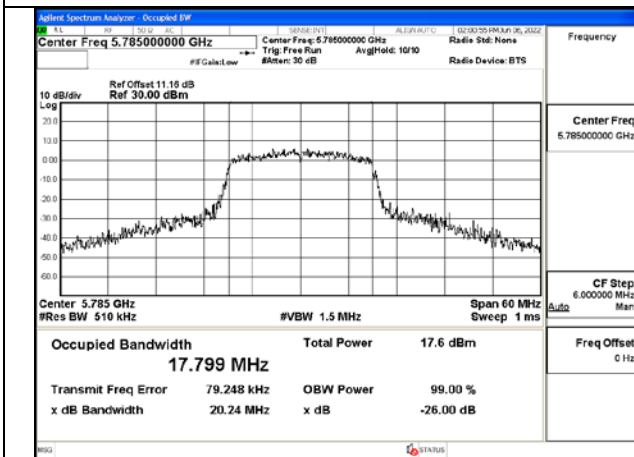
Test Mode:802.11ac VHT20 5785MHz Chain0



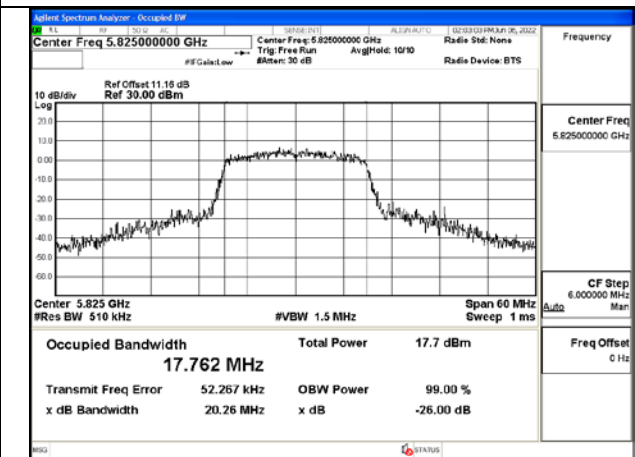
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

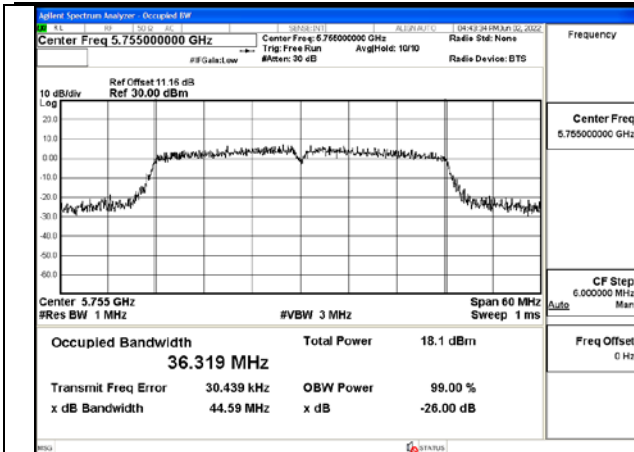


Test Mode:802.11ac VHT20 5785MHz Chain1

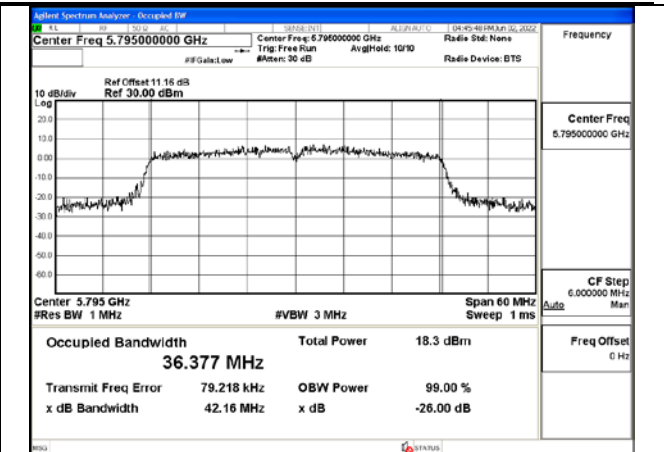


Test Mode:802.11ac VHT20 5825MHz Chain1

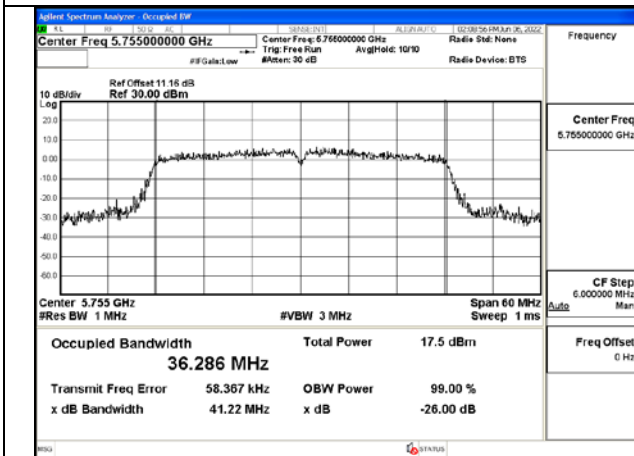
Test Mode: 802.11n HT40



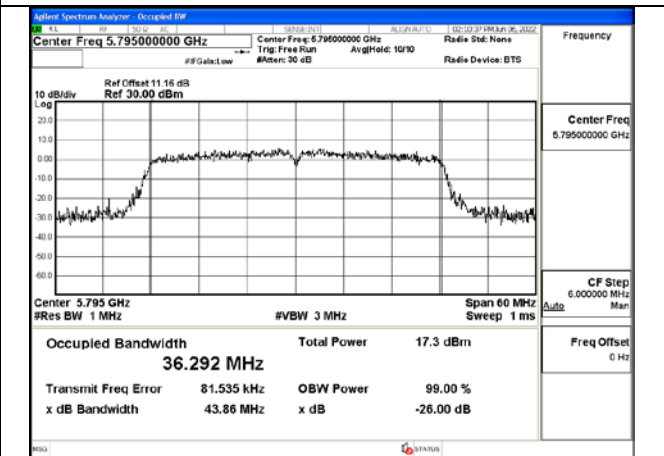
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

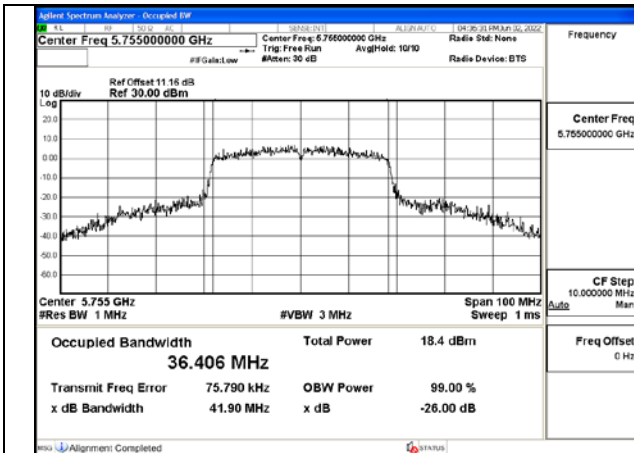


Test Mode:802.11n HT40 5755MHz Chain1

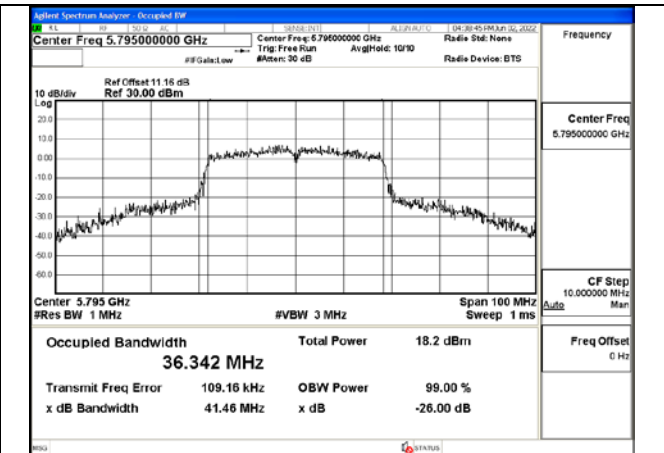


Test Mode:802.11n HT40 5795MHz Chain1

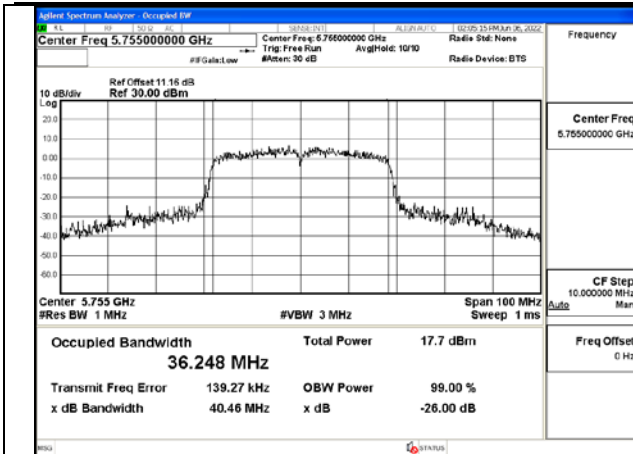
Test Mode: 802.11ac VHT40



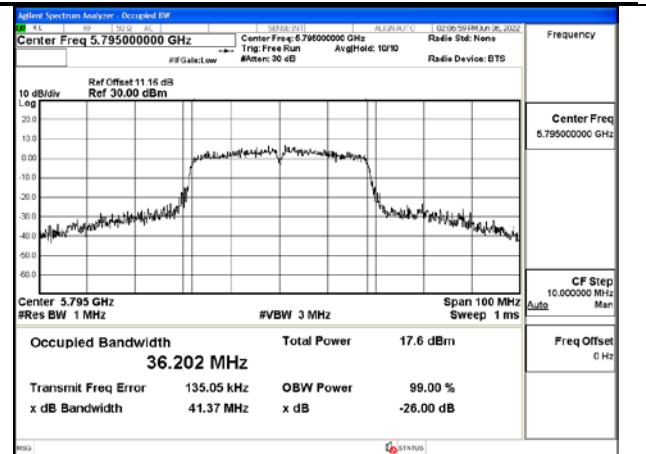
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

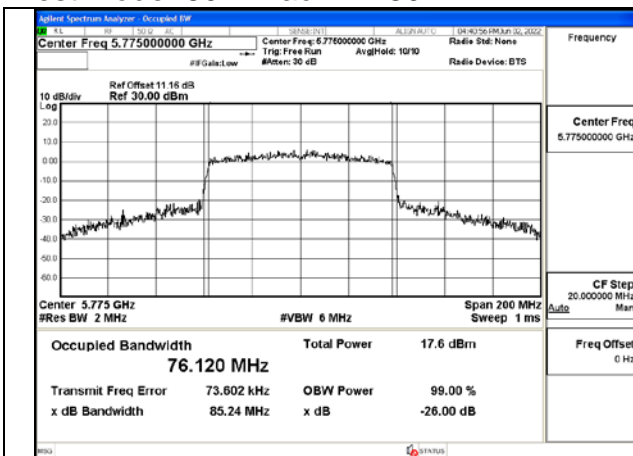


Test Mode:802.11ac VHT40 5755MHz Chain1

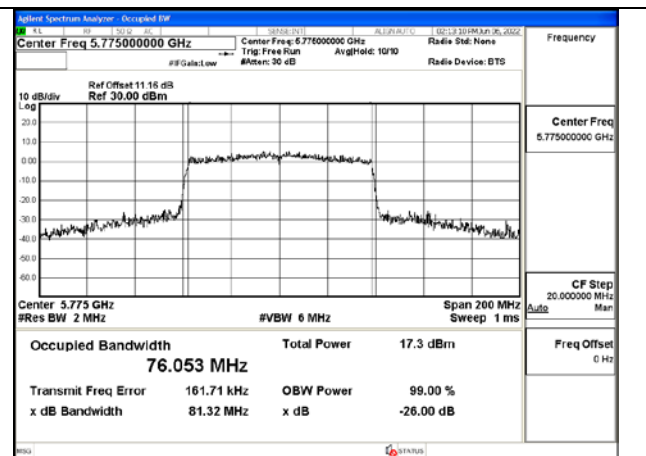


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

Occupied Bandwidth

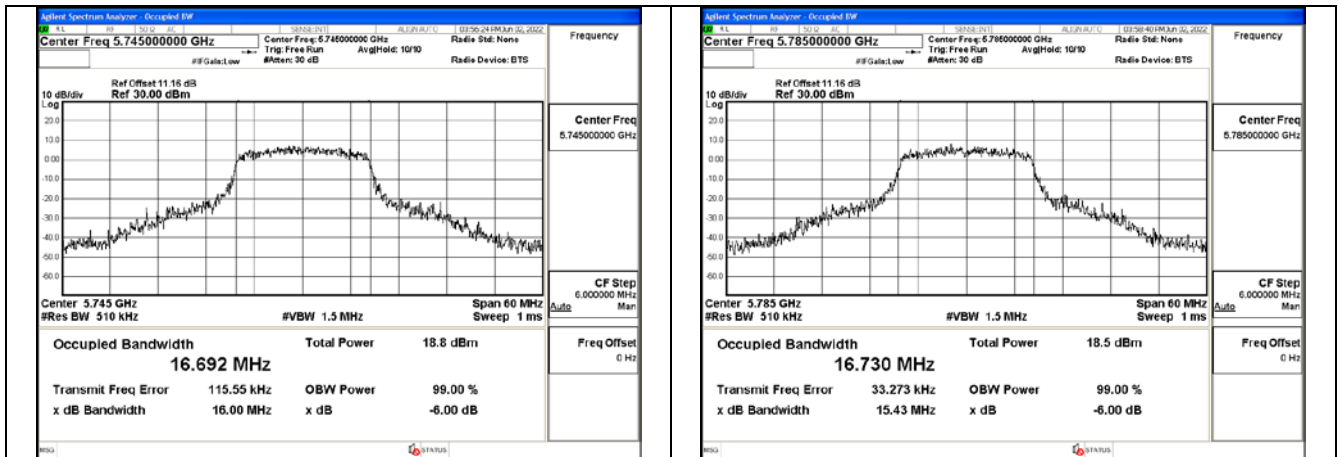
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667 5745MHz	Channel No.675 5785MHz	Channel No.683 5825MHz
802.11a	Chain0	16.692	16.730	16.726
802.11a	Chain1	16.648	16.613	16.566
802.11n HT20	Chain0	17.874	17.784	17.778
802.11n HT20	Chain1	17.726	17.637	17.821
802.11ac VHT20	Chain0	17.845	17.840	17.747
802.11ac VHT20	Chain1	17.698	17.687	17.728

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669 5755MHz	---	Channel No.677 5795MHz
802.11n HT40	Chain0	36.355	---	36.393
802.11n HT40	Chain1	36.152	---	36.259
802.11ac VHT40	Chain0	36.377	---	36.318
802.11ac VHT40	Chain1	36.356	---	36.166

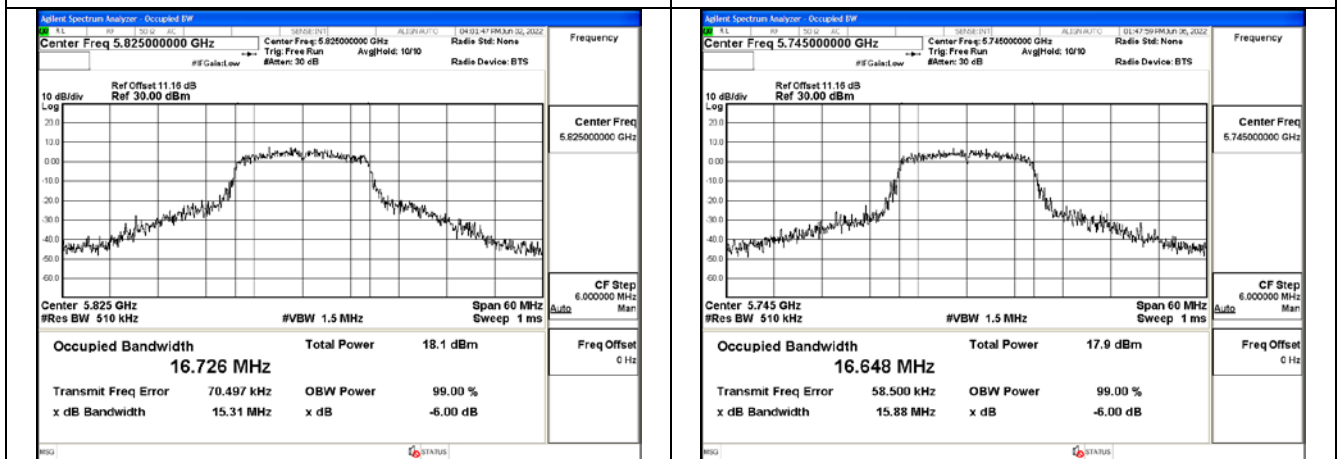
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.119	---	---
802.11ac VHT80	Chain1	76.085	---	---

Test Mode: 802.11a



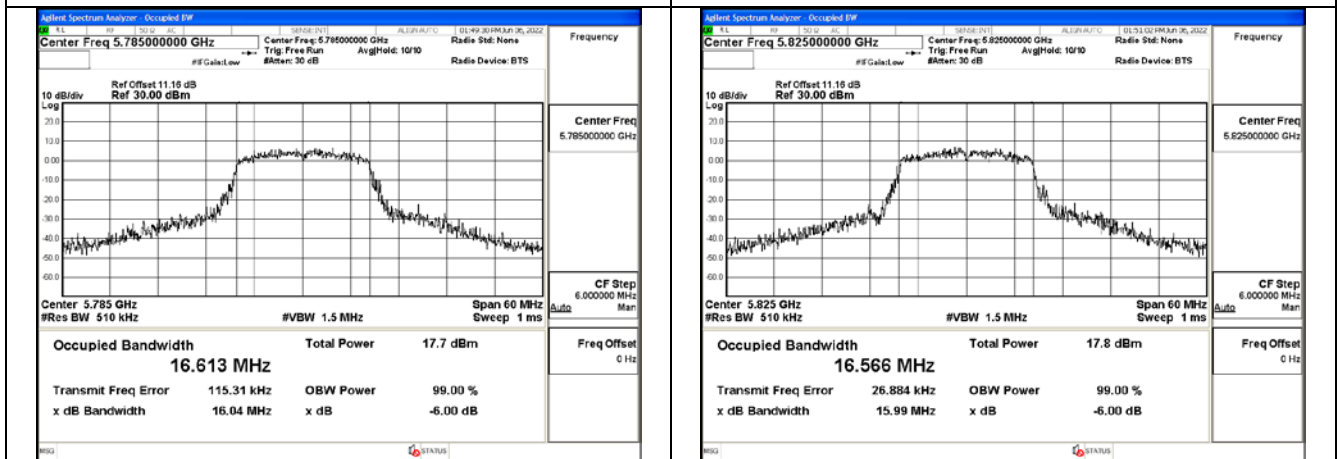
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

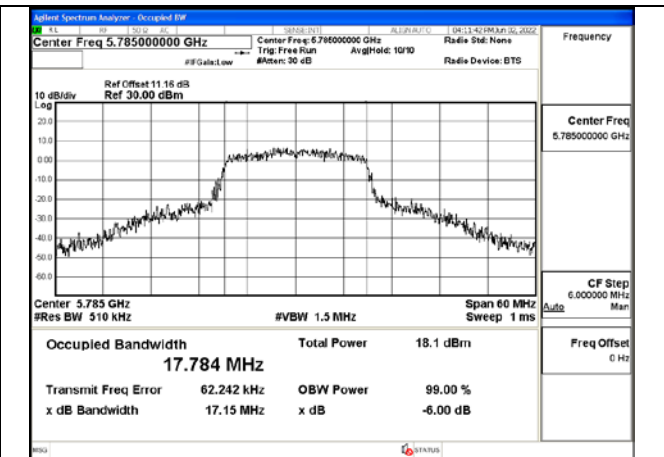
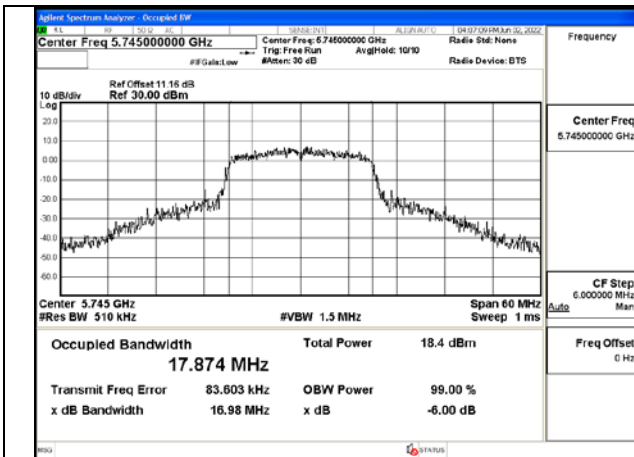
Test Mode:802.11a 5745MHz Chain1



Test Mode:802.11a 5785MHz Chain1

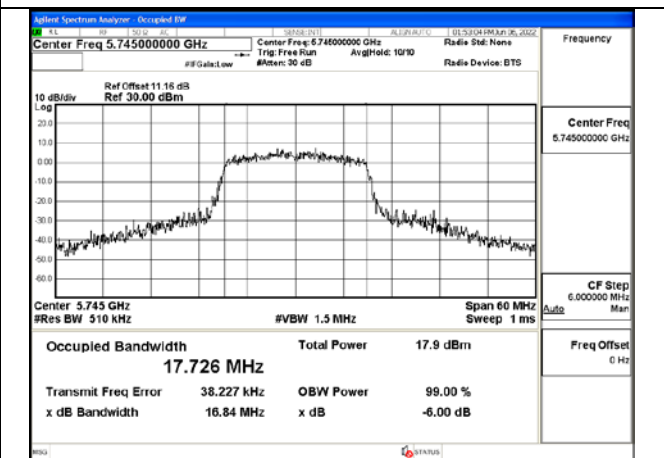
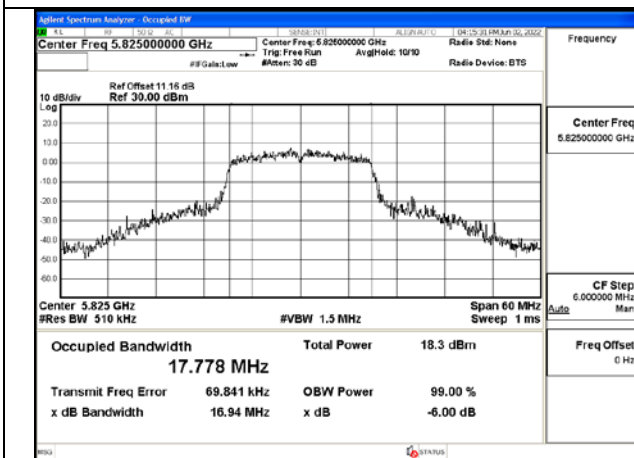
Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



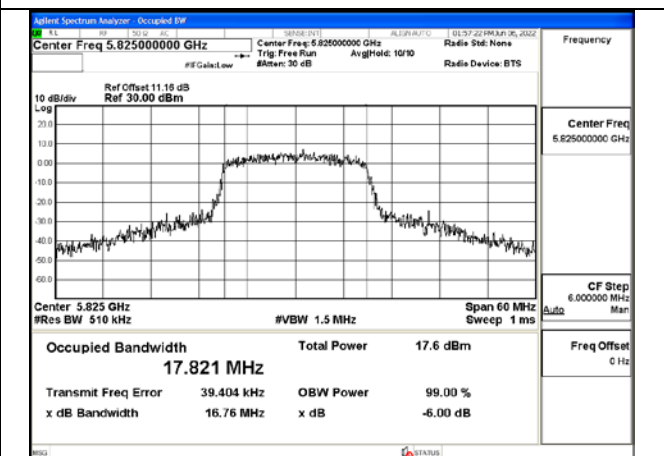
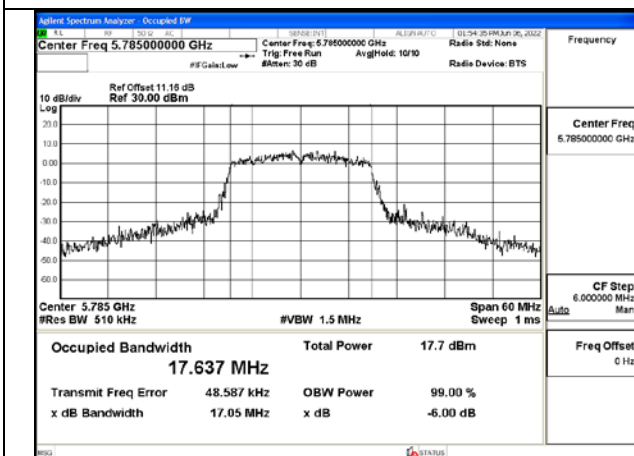
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

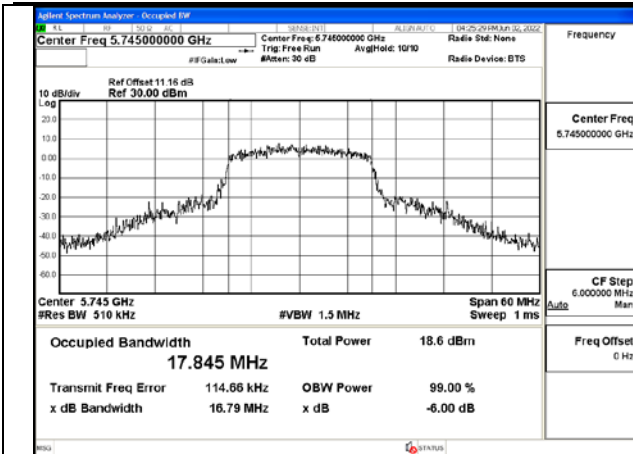
Test Mode:802.11n HT20 5745MHz Chain1



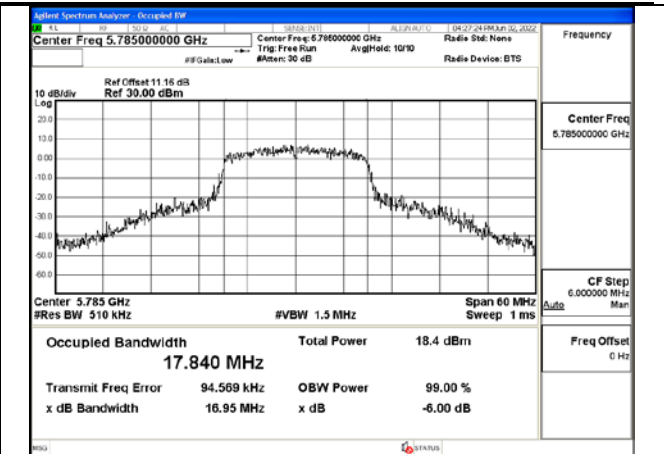
Test Mode:802.11n HT20 5785MHz Chain1

Test Mode:802.11n HT20 5825MHz Chain1

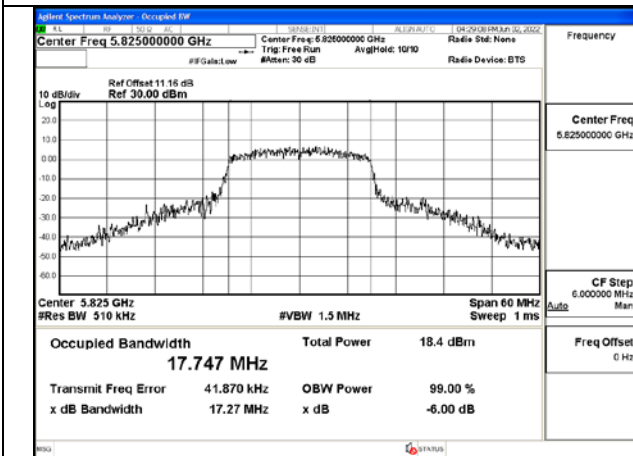
Test Mode: 802.11ac VHT20



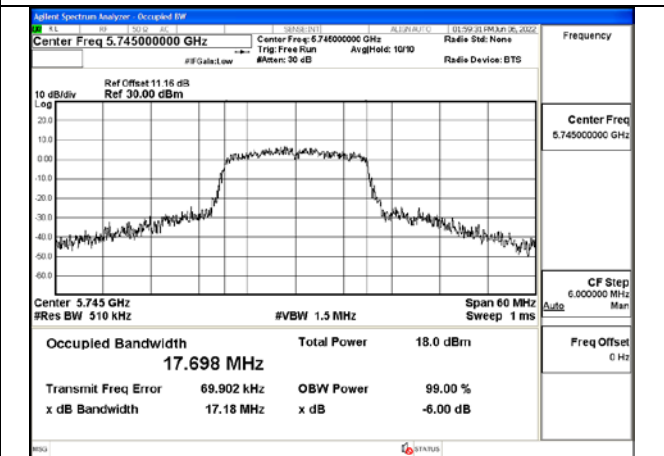
Test Mode:802.11ac VHT20 5745MHz Chain0



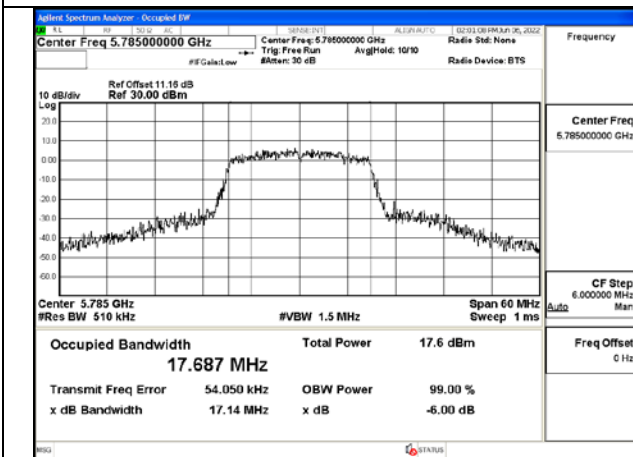
Test Mode:802.11ac VHT20 5785MHz Chain0



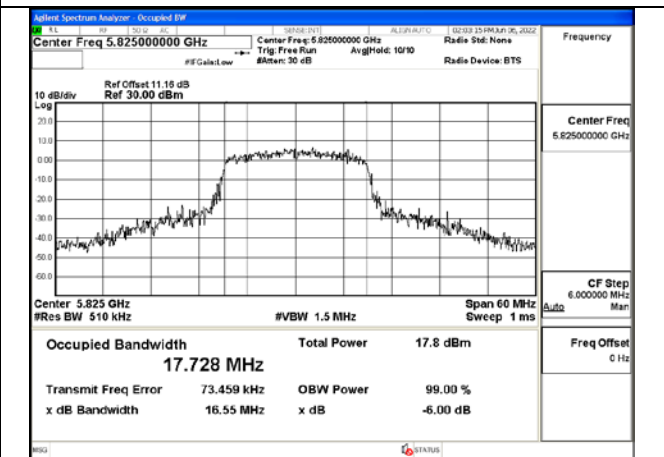
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

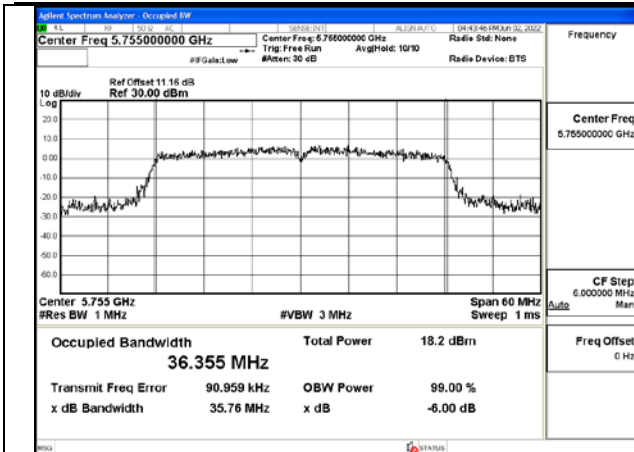


Test Mode:802.11ac VHT20 5785MHz Chain1

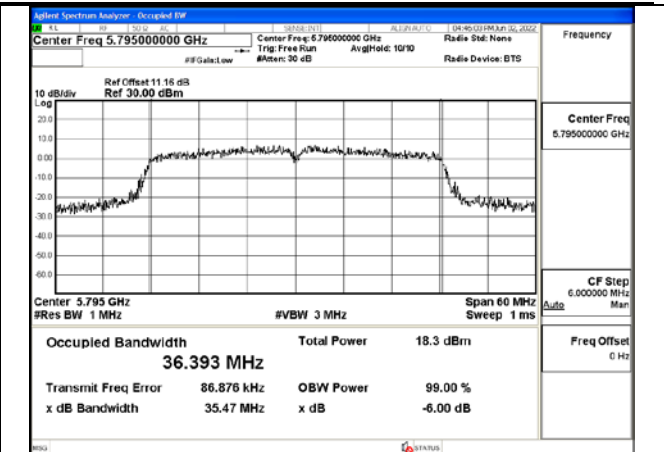


Test Mode:802.11ac VHT20 5825MHz Chain1

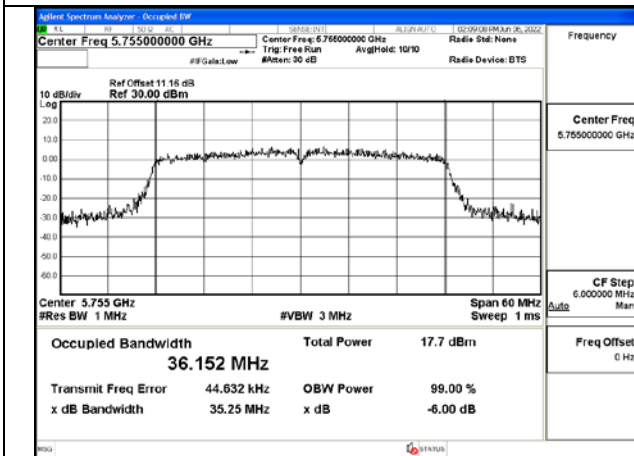
Test Mode: 802.11n HT40



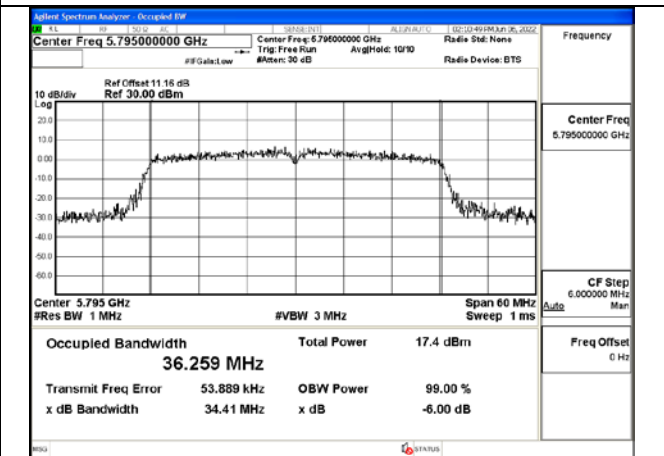
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

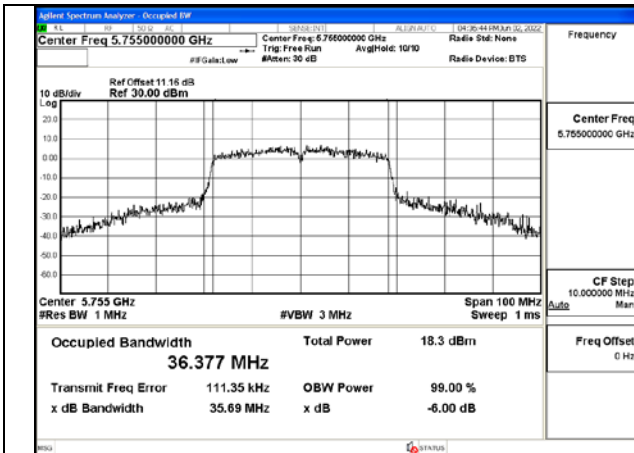


Test Mode:802.11n HT40 5755MHz Chain1

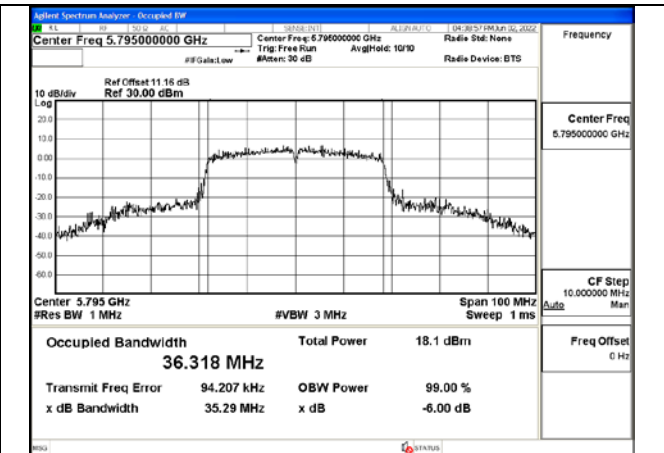


Test Mode:802.11n HT40 5795MHz Chain1

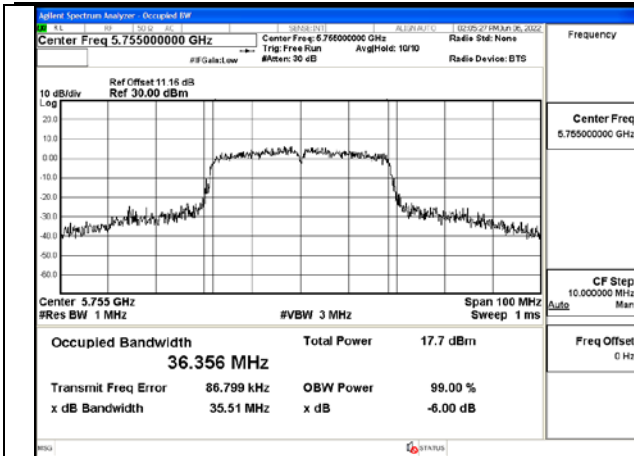
Test Mode: 802.11ac VHT40



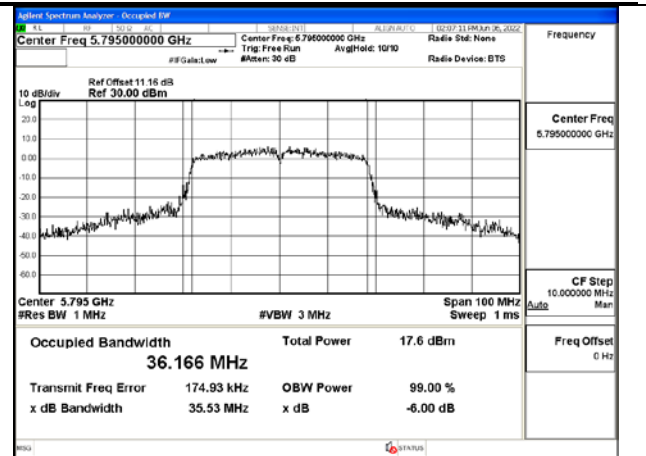
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

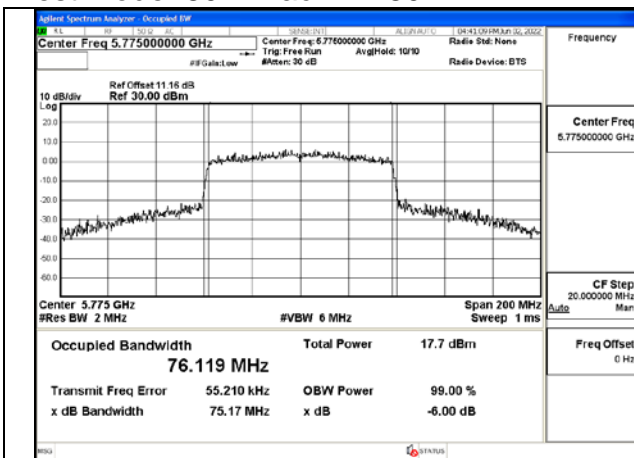


Test Mode:802.11ac VHT40 5755MHz Chain1

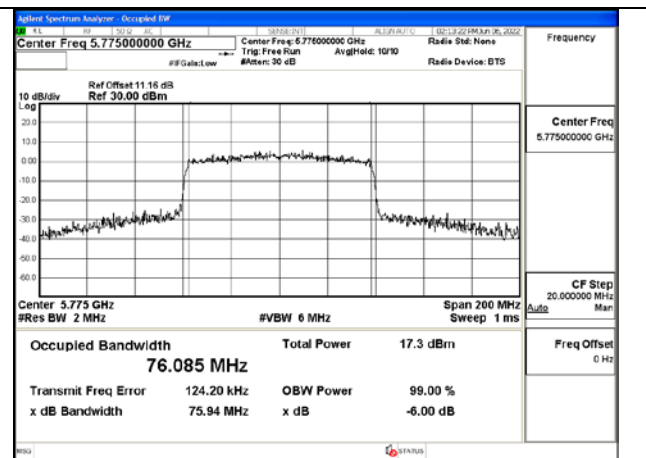


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

6dB Bandwidth

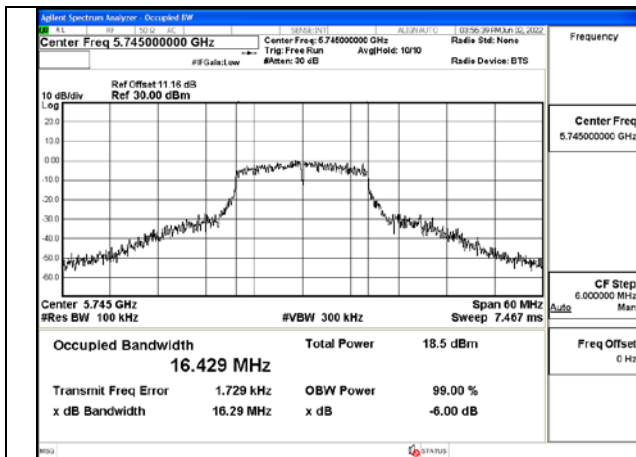
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.29	16.29	16.36
802.11a	Chain1	16.23	15.52	15.82
802.11n HT20	Chain0	17.58	11.06	17.61
802.11n HT20	Chain1	17.57	15.71	17.60
802.11ac VHT20	Chain0	13.79	16.87	16.30
802.11ac VHT20	Chain1	17.31	15.38	17.61

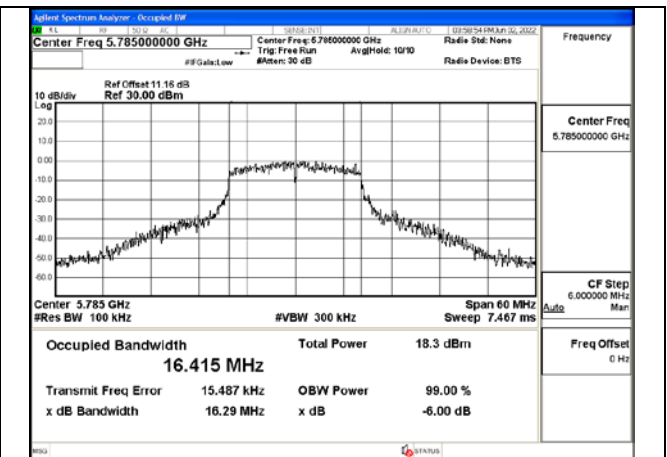
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	33.76	---	33.17
802.11n HT40	Chain1	31.13	---	23.27
802.11ac VHT40	Chain0	35.02	---	30.08
802.11ac VHT40	Chain1	35.71	---	32.64

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	71.53	---	---
802.11ac VHT80	Chain1	74.53	---	---

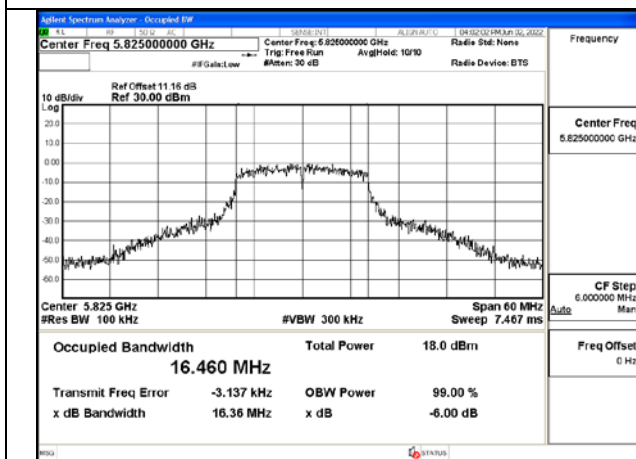
Test Mode: 802.11a



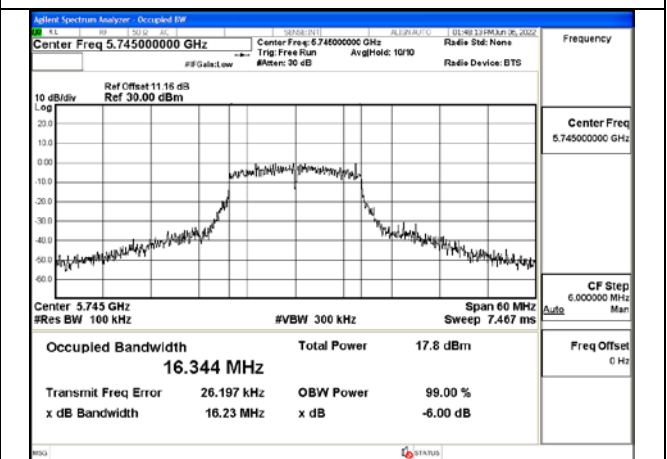
Test Mode:802.11a 5745MHz Chain0



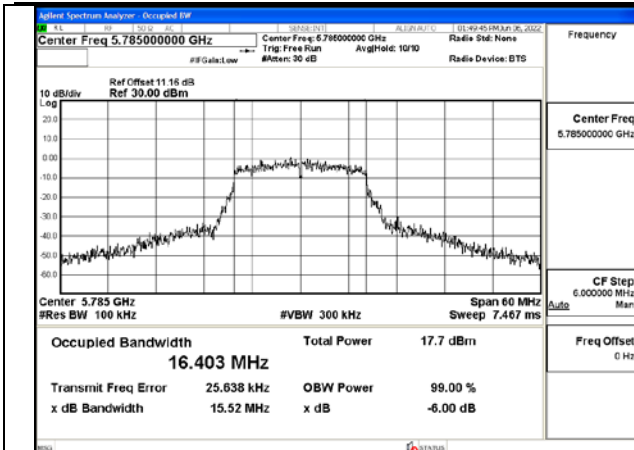
Test Mode:802.11a 5785MHz Chain0



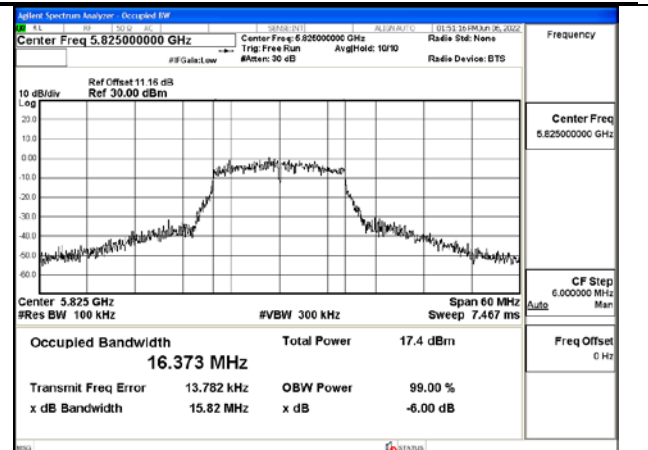
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

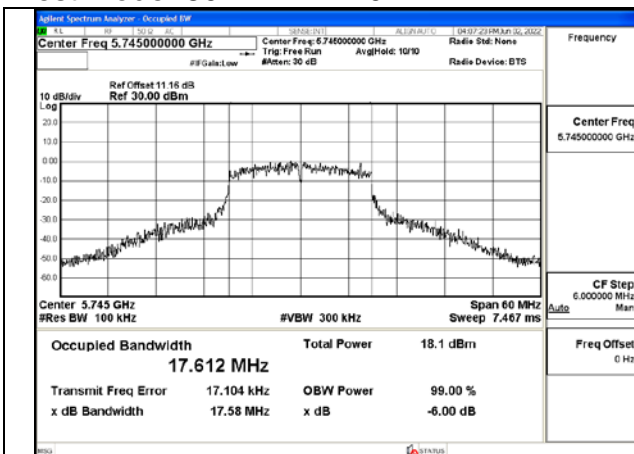


Test Mode:802.11a 5785MHz Chain1

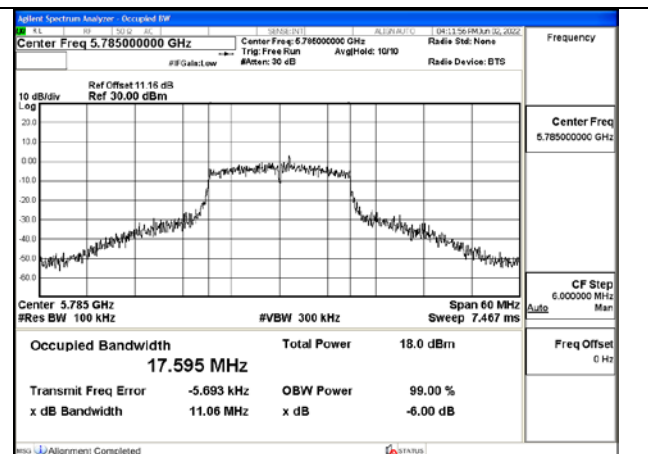


Test Mode:802.11a 5825MHz Chain1

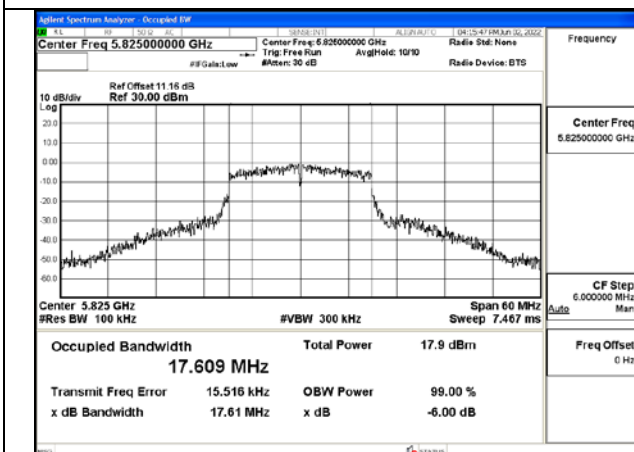
Test Mode: 802.11n HT20



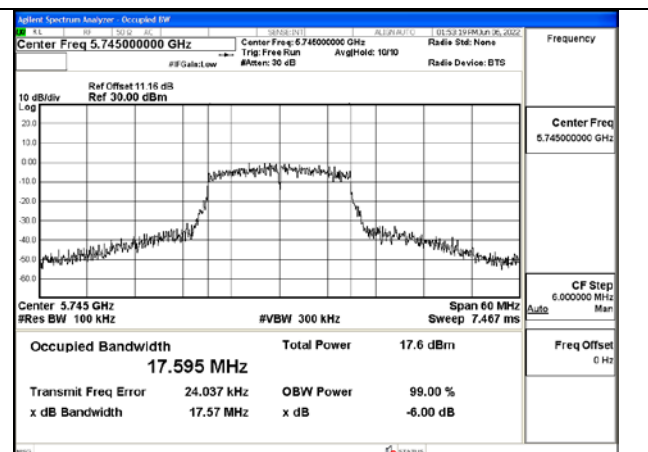
Test Mode:802.11n HT20 5745MHz Chain0



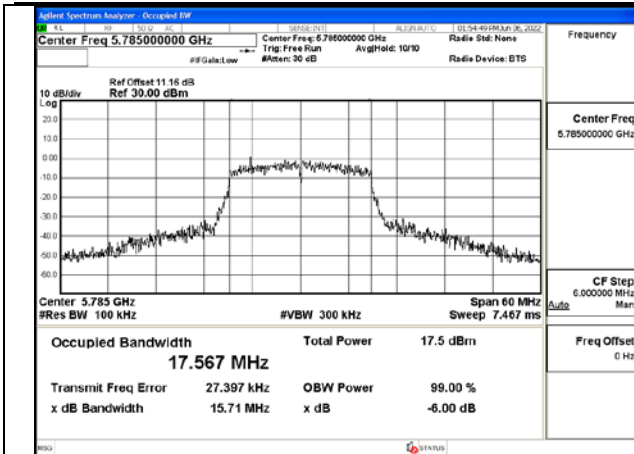
Test Mode:802.11n HT20 5785MHz Chain0



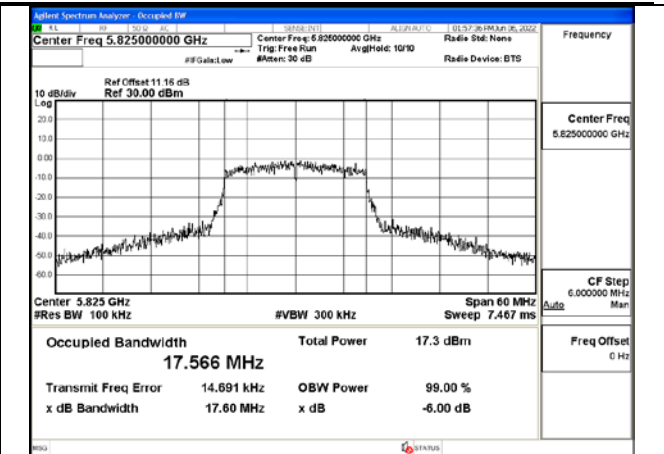
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

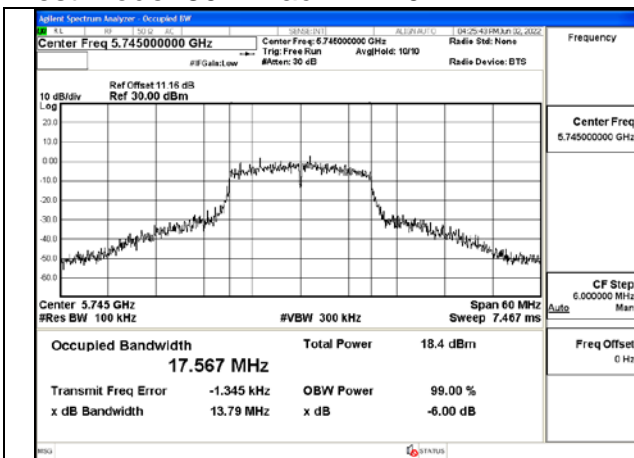


Test Mode:802.11n HT20 5785MHz Chain1

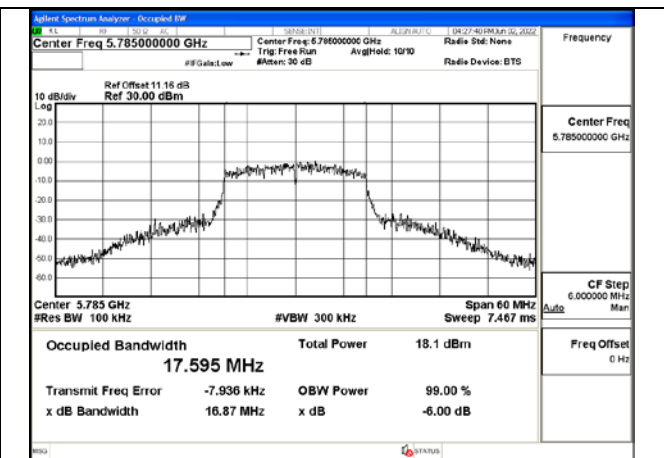


Test Mode:802.11n HT20 5825MHz Chain1

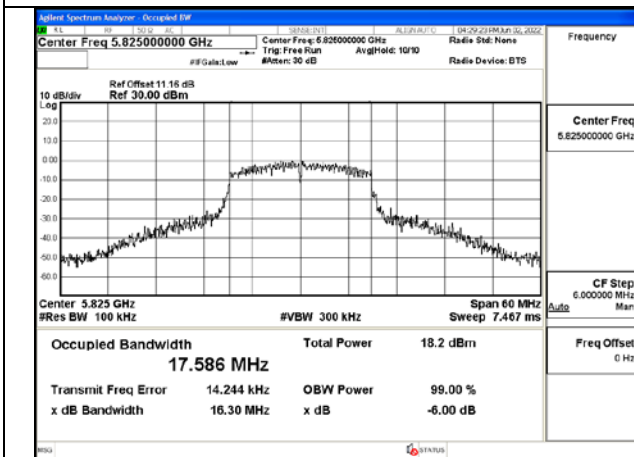
Test Mode: 802.11ac VHT20



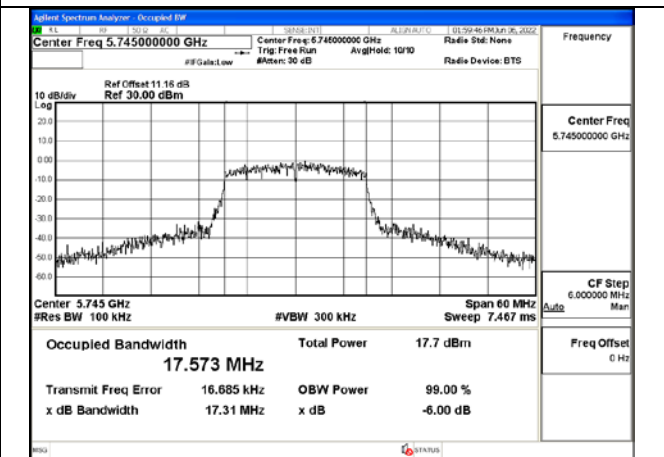
Test Mode:802.11ac VHT20 5745MHz Chain0



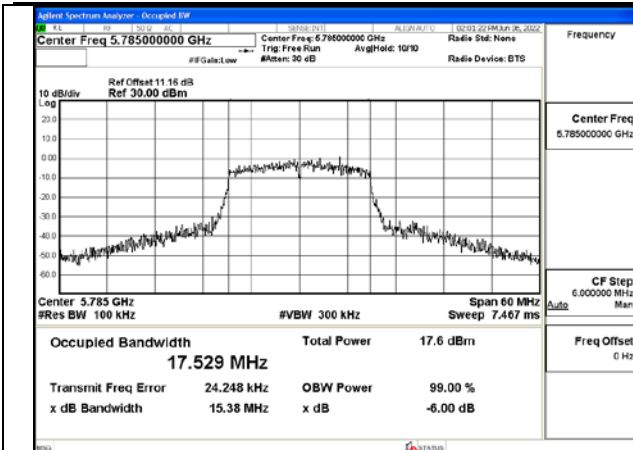
Test Mode:802.11ac VHT20 5785MHz Chain0



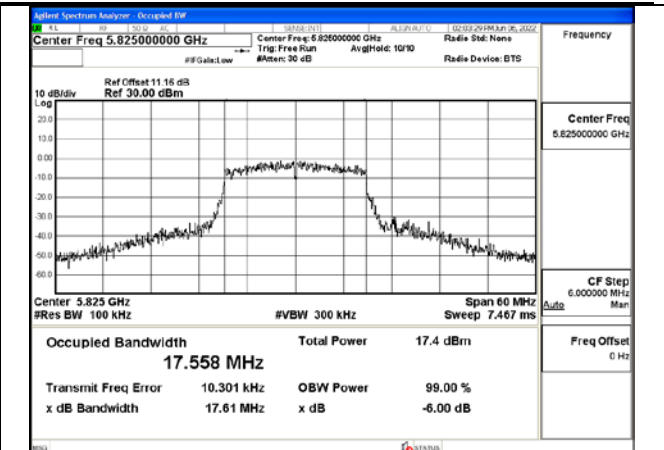
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

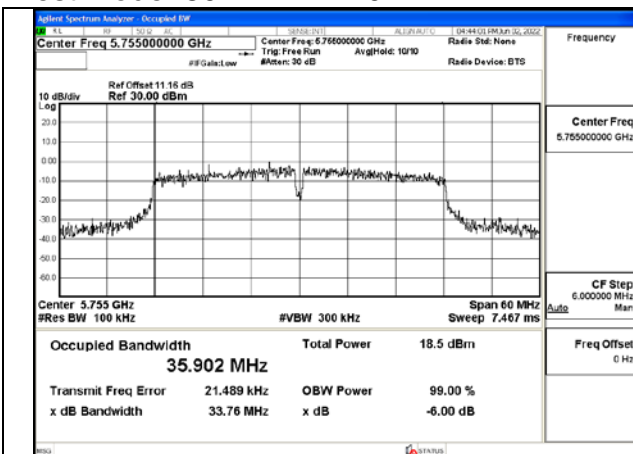


Test Mode:802.11ac VHT20 5785MHz Chain1

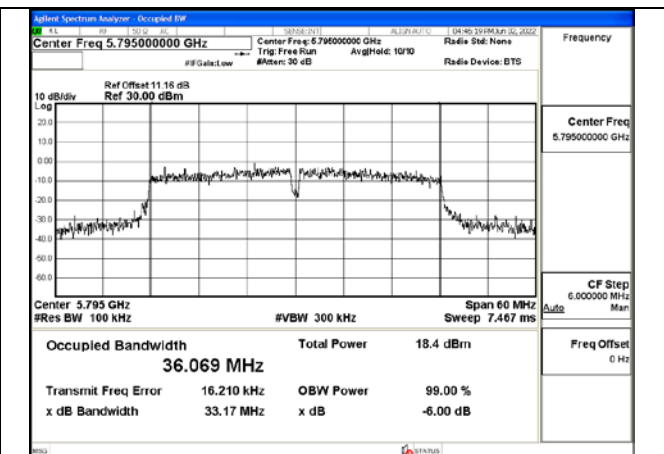


Test Mode:802.11ac VHT20 5825MHz Chain1

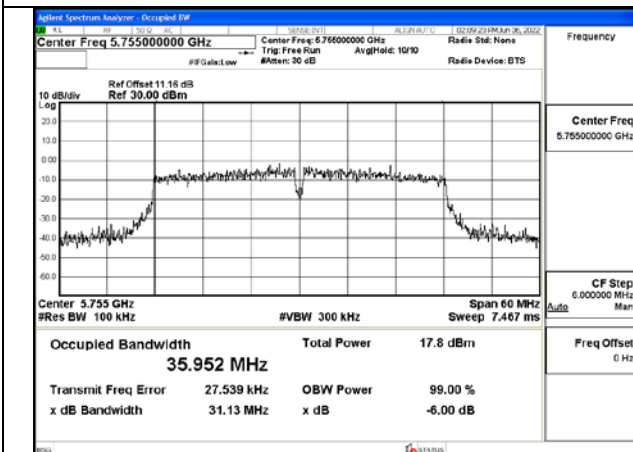
Test Mode: 802.11n HT40



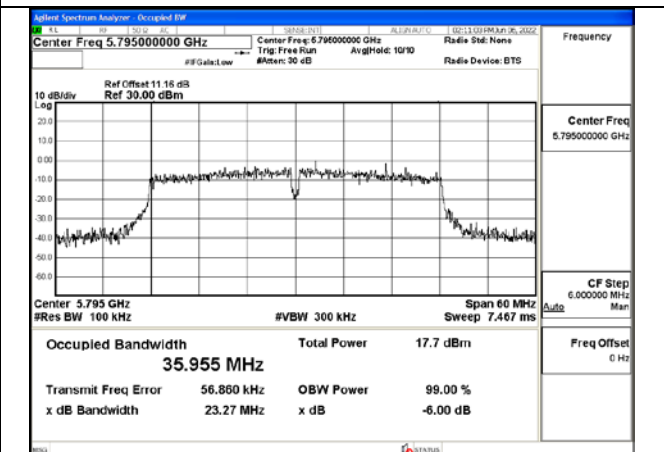
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

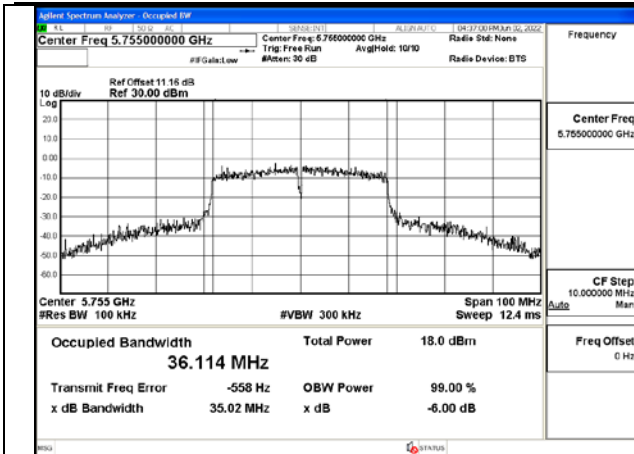


Test Mode:802.11n HT40 5755MHz Chain1

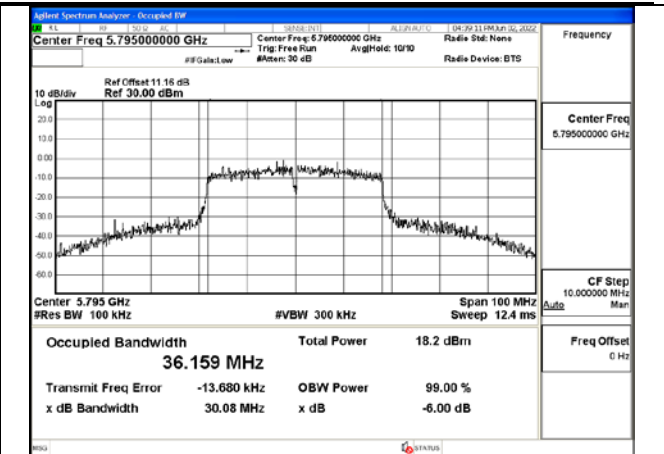


Test Mode:802.11n HT40 5795MHz Chain1

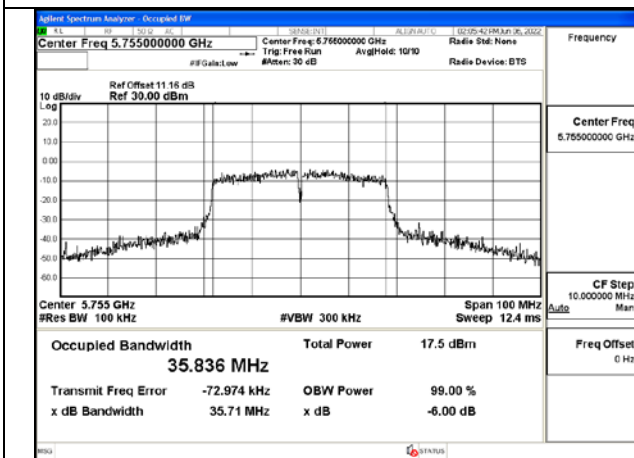
Test Mode: 802.11ac VHT40



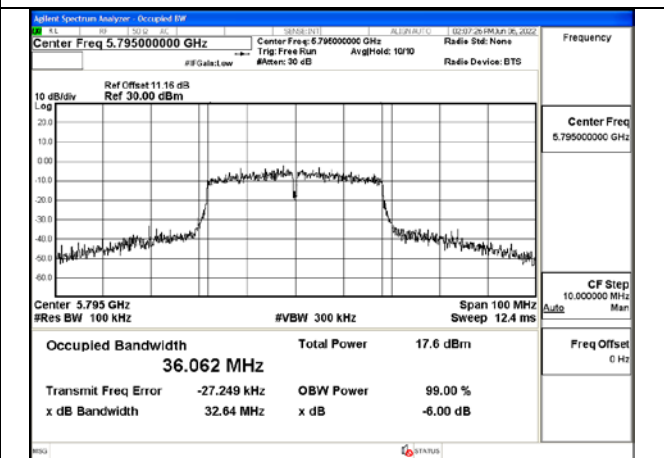
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

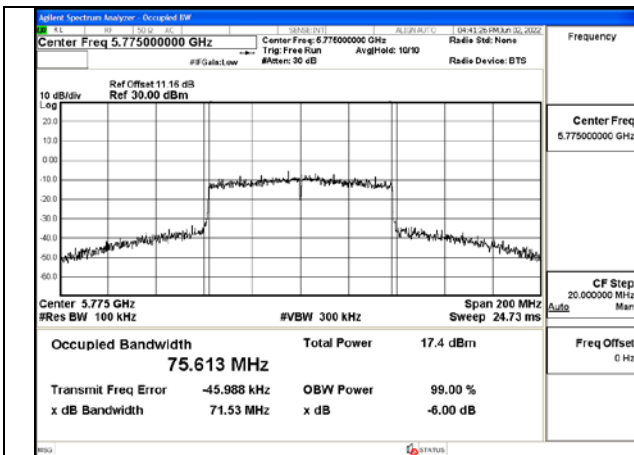


Test Mode:802.11ac VHT40 5755MHz Chain1

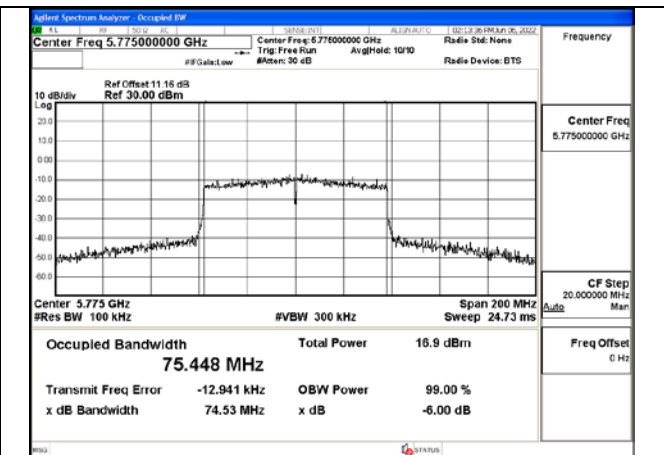


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

Transmitter Power Spectral Density

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

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	3.050	0	3.099	0	2.744
802.11a	Chain1	0	2.526	0	2.438	0	2.334
802.11n HT20	Chain0	0	2.890	0	2.664	0	3.113
802.11n HT20	Chain1	0	2.402	0	2.247	0	2.088
802.11n HT20	MIMO	0	5.663	0	5.471	0	5.641
802.11a c VHT20	Chain0	0	3.098	0	2.940	0	2.718
802.11a c VHT20	Chain1	0	2.175	0	2.043	0	2.164
802.11a c VHT20	MIMO	0	5.671	0	5.525	0	5.460

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

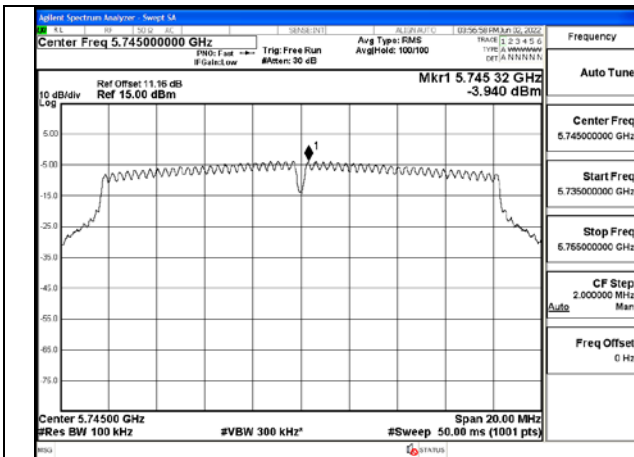
Test Mode	Antenna	5755MHz		---		5795MHz	
		Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)
802.11n HT40	Chain0	0.12	0.100	---	---	0.12	0.387
802.11n HT40	Chain1	0.12	-0.688	---	---	0.12	-1.103
802.11n HT40	MIMO	0.12	2.734	---	---	0.12	2.716
802.11a c VHT40	Chain0	0.12	-0.326	---	---	0.12	-0.345
802.11a c VHT40	Chain1	0.12	-0.876	---	---	0.12	-0.928
802.11a c VHT40	MIMO	0.12	2.418	---	---	0.12	2.384

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

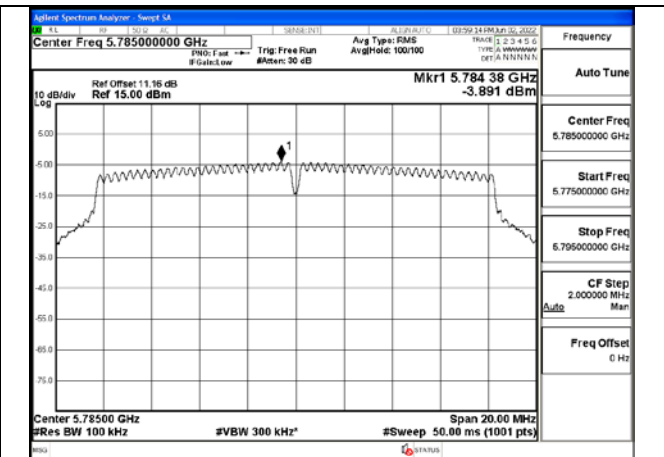
Test Mode	Antenna	5775MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)
802.11a c VHT80	Chain0	0.23	-2.928	---	---	---	---
802.11a c VHT80	Chain1	0.23	-3.850	---	---	---	---
802.11a c VHT80	MIMO	0.23	-0.354	---	---	---	---

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

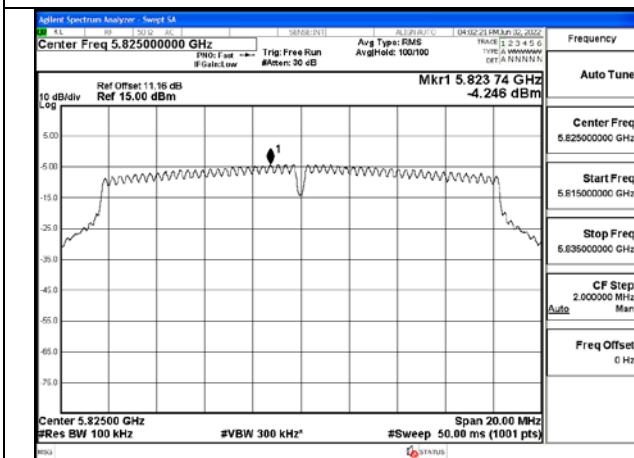
Test Mode: 802.11a



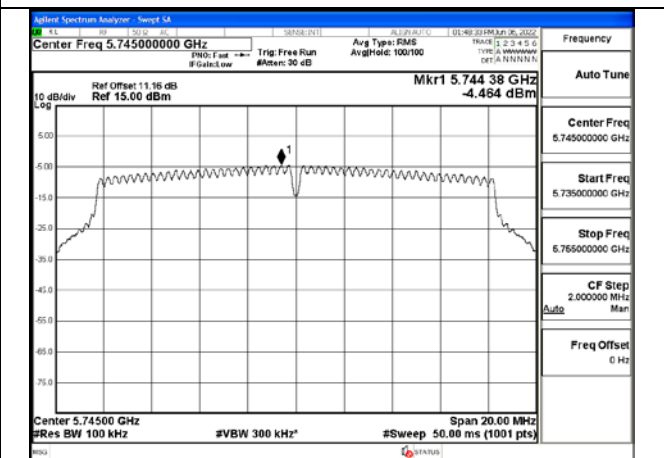
Test Mode:802.11a 5745MHz Chain0



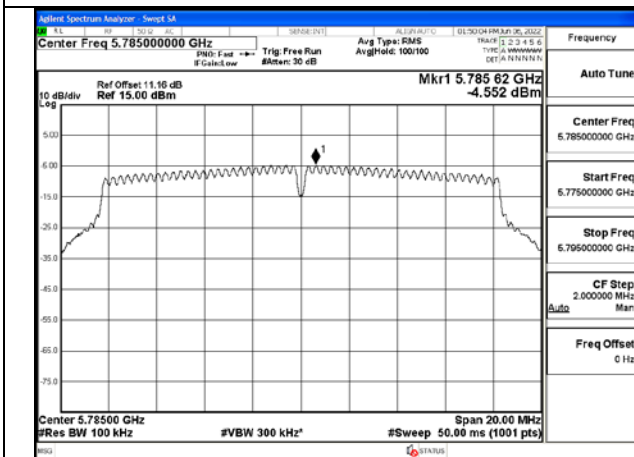
Test Mode:802.11a 5785MHz Chain0



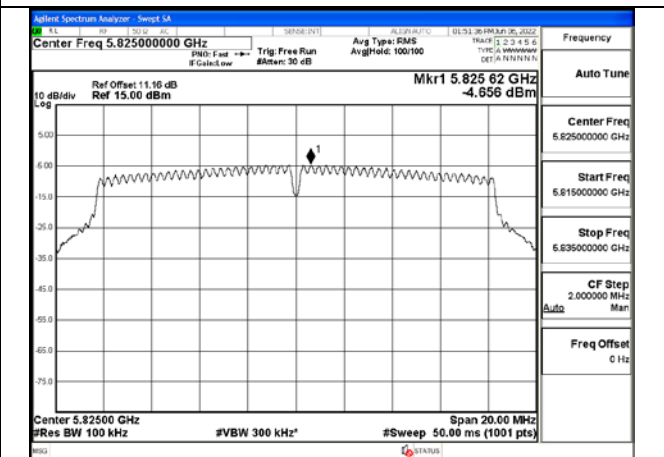
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

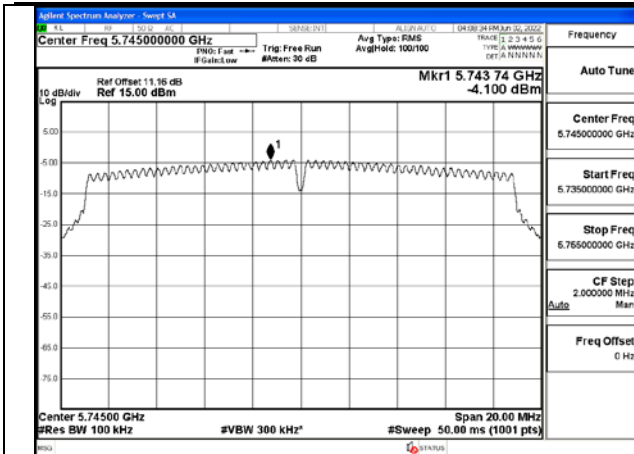


Test Mode:802.11a 5785MHz Chain1

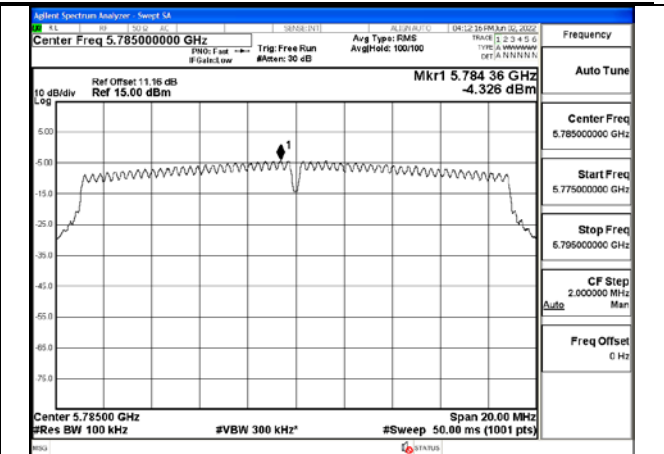


Test Mode:802.11a 5825MHz Chain1

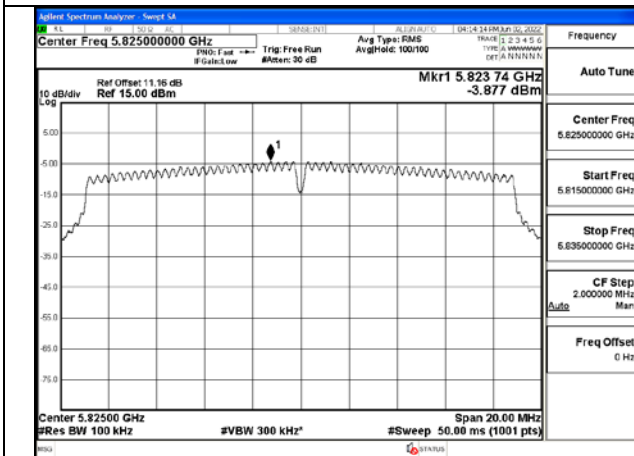
Test Mode: 802.11n HT20



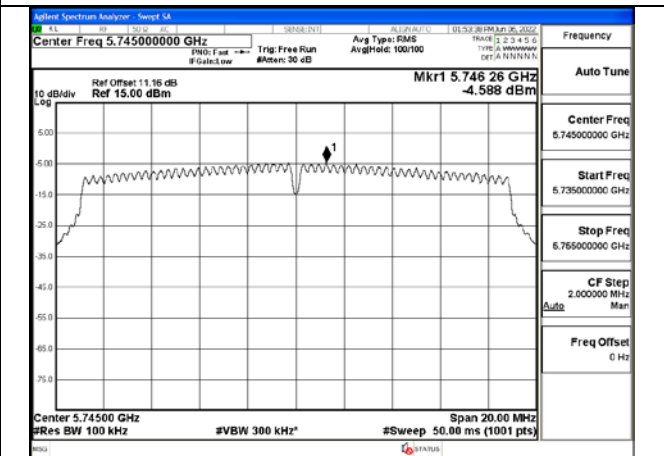
Test Mode:802.11n HT20 5745MHz Chain0



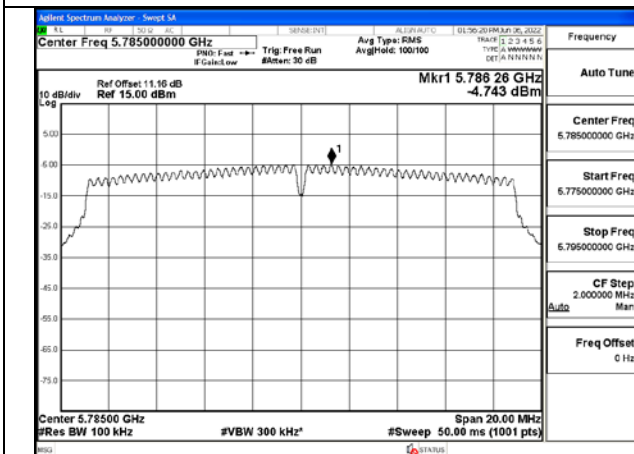
Test Mode:802.11n HT20 5785MHz Chain0



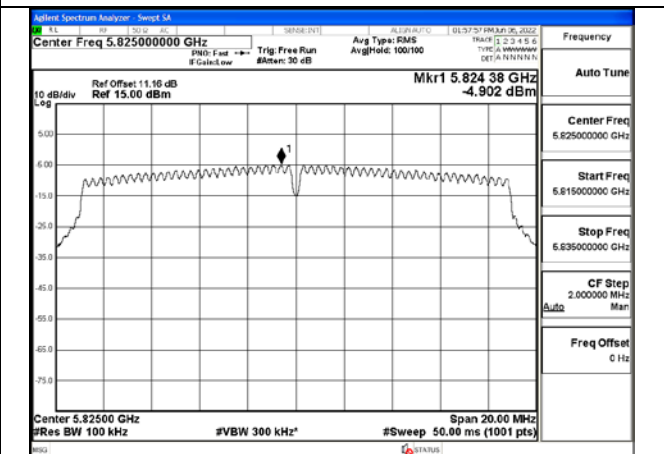
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1



Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11ac VHT20