

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	93.97%	0.27	Fig.1
802.11a	5745	93.93%	0.27	Fig.2
802.11n HT20	5745	94.01%	0.27	Fig.3
802.11n HT20	5745	94.33%	0.25	Fig.4
802.11ac VHT20	5745	93.84%	0.28	Fig.5
802.11ac VHT20	5745	93.70%	0.28	Fig.6
802.11n HT40	5755	94.35%	0.25	Fig.7
802.11n HT40	5755	94.24%	0.26	Fig.8
802.11ac VHT40	5755	88.72%	0.52	Fig.9
802.11ac VHT40	5755	89.26%	0.49	Fig.10
802.11ac VHT80	5775	82.25%	0.85	Fig.11
802.11ac VHT80	5775	82.52%	0.83	Fig.12

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	15.46	17.96
802.11a	NA	5745	Chain1	15.18	17.68
802.11a	NA	5785	Chain0	15.24	17.74
802.11a	NA	5785	Chain1	15.31	17.81
802.11a	NA	5825	Chain0	15.22	17.72
802.11a	NA	5825	Chain1	15.48	17.98
802.11n HT20	NA	5745	Chain0	16.04	18.54
802.11n HT20	NA	5745	Chain1	16.03	18.53
802.11n HT20	NA	5745	MIMO	19.05	21.55
802.11n HT20	NA	5785	Chain0	16.21	18.71
802.11n HT20	NA	5785	Chain1	16.23	18.73
802.11n HT20	NA	5785	MIMO	19.23	21.73
802.11n HT20	NA	5825	Chain0	16.23	18.73
802.11n HT20	NA	5825	Chain1	16.36	18.86
802.11n HT20	NA	5825	MIMO	19.31	21.81
802.11ac VHT20	NA	5745	Chain0	13.92	16.42
802.11ac VHT20	NA	5745	Chain1	13.87	16.37
802.11ac VHT20	NA	5745	MIMO	16.91	19.41
802.11ac VHT20	NA	5785	Chain0	14.06	16.56
802.11ac VHT20	NA	5785	Chain1	14.11	16.61
802.11ac VHT20	NA	5785	MIMO	17.10	19.60
802.11ac VHT20	NA	5825	Chain0	14.11	16.61
802.11ac VHT20	NA	5825	Chain1	14.25	16.75
802.11ac VHT20	NA	5825	MIMO	17.19	19.69
802.11n HT40	NA	5755	Chain0	15.79	18.29
802.11n HT40	NA	5755	Chain1	15.97	18.47
802.11n HT40	NA	5755	MIMO	18.89	21.39
802.11n HT40	NA	5795	Chain0	15.97	18.47
802.11n HT40	NA	5795	Chain1	16.07	18.57
802.11n HT40	NA	5795	MIMO	19.03	21.53
802.11ac VHT40	NA	5755	Chain0	13.96	16.46
802.11ac VHT40	NA	5755	Chain1	13.76	16.26
802.11ac VHT40	NA	5755	MIMO	16.87	19.37
802.11ac VHT40	NA	5795	Chain0	13.93	16.43
802.11ac VHT40	NA	5795	Chain1	13.97	16.47
802.11ac VHT40	NA	5795	MIMO	16.96	19.46
802.11ac VHT80	NA	5775	Chain0	12.68	15.18
802.11ac VHT80	NA	5775	Chain1	12.63	15.13
802.11ac VHT80	NA	5775	MIMO	15.67	18.17

Emission Bandwidth

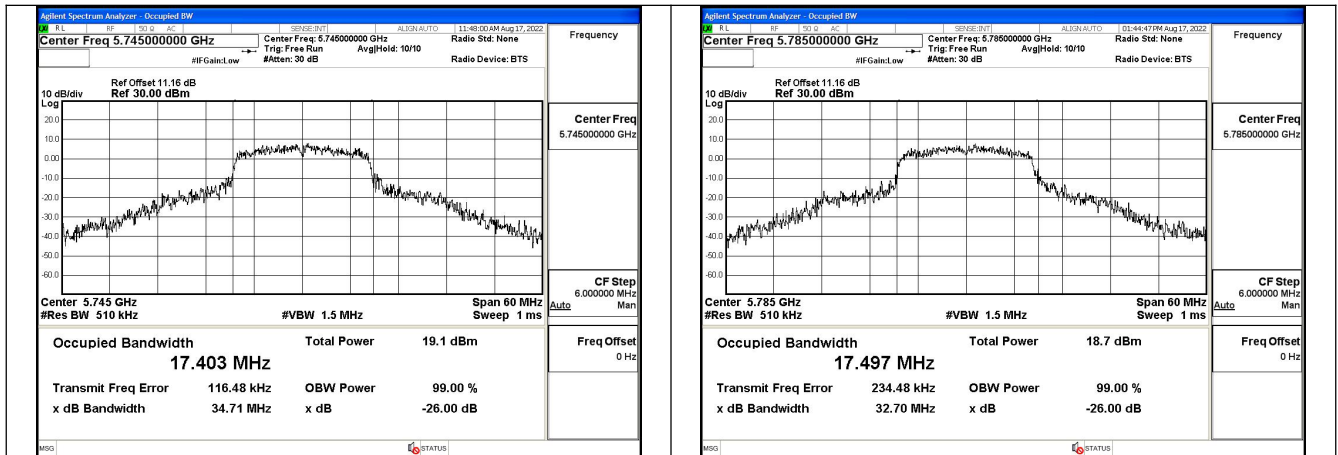
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	34.71	32.70	30.73
802.11a	Chain1	28.08	25.63	21.63
802.11n HT20	Chain0	33.12	33.80	31.65
802.11n HT20	Chain1	32.98	28.96	27.78
802.11ac VHT20	Chain0	34.27	32.59	31.09
802.11ac VHT20	Chain1	26.79	25.88	23.56

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	59.92	---	59.92
802.11n HT40	Chain1	59.99	---	59.96
802.11ac VHT40	Chain0	63.40	---	63.47
802.11ac VHT40	Chain1	50.14	---	45.56

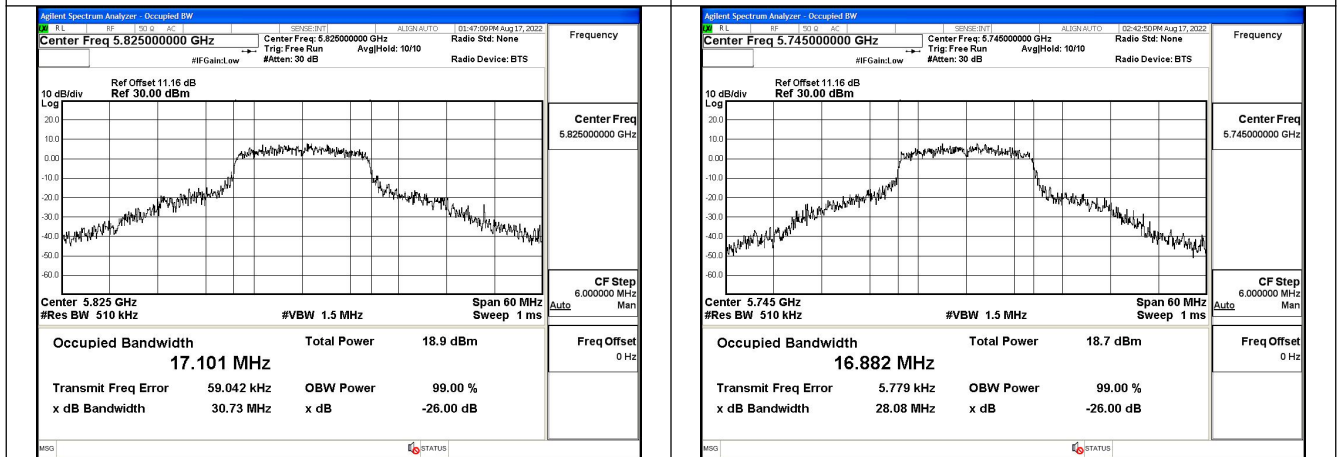
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	115.53	---	---
802.11ac VHT80	Chain1	101.33	---	---

Test Mode: 802.11a



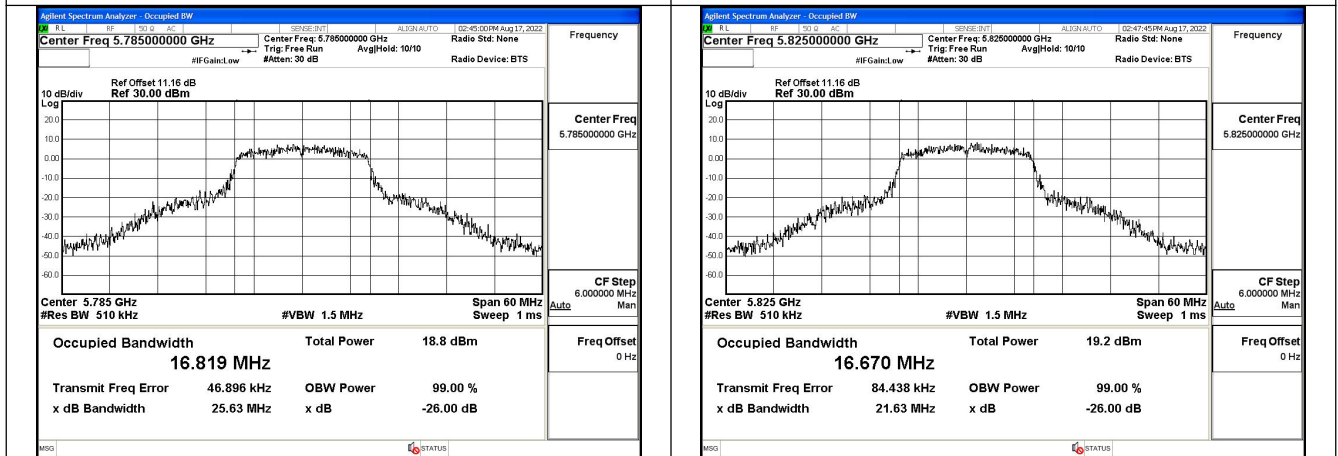
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

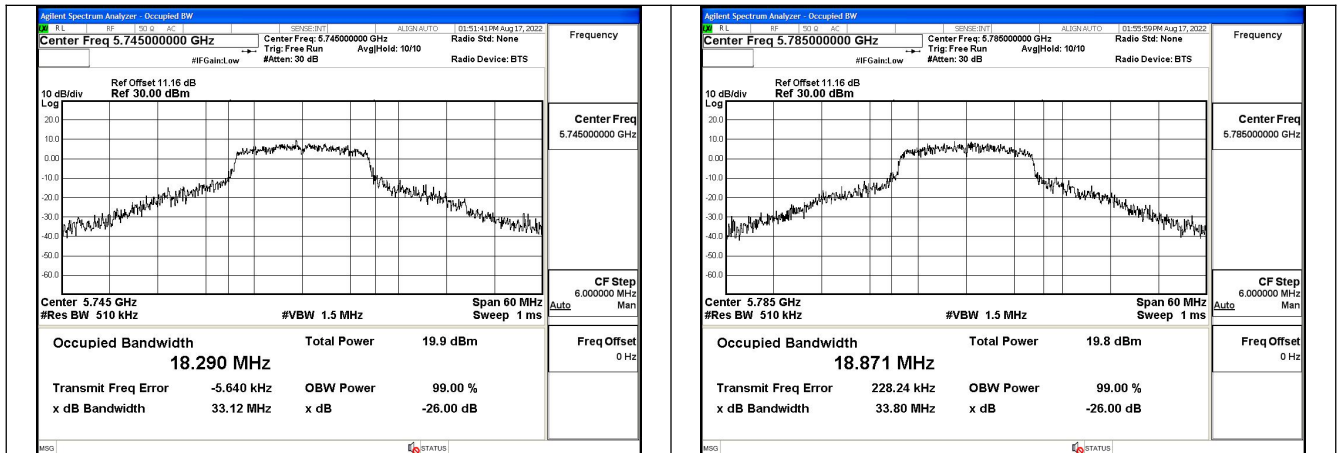
Test Mode:802.11a 5745MHz Chain1



Test Mode:802.11a 5785MHz Chain1

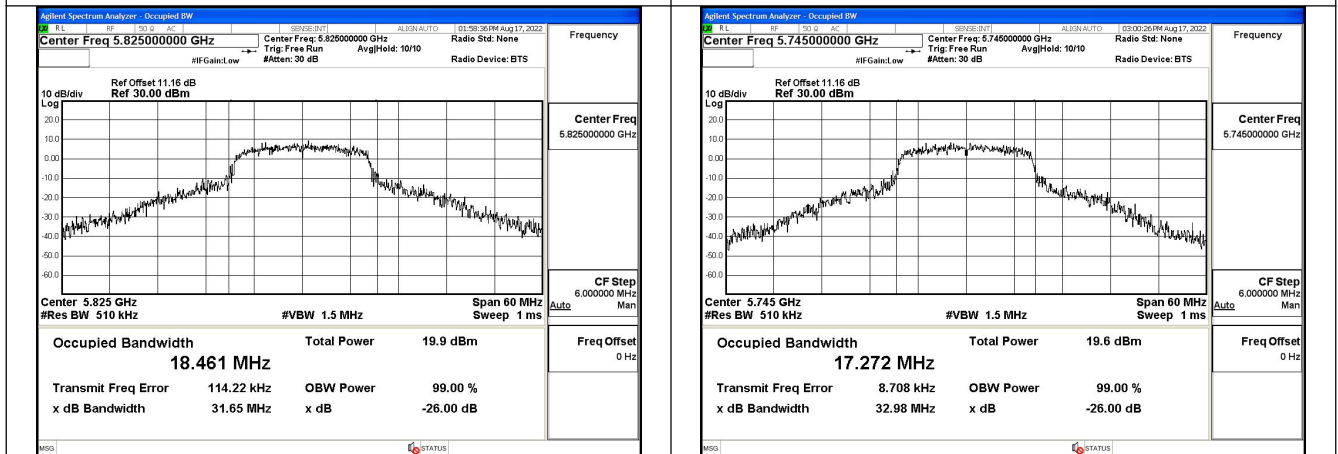
Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



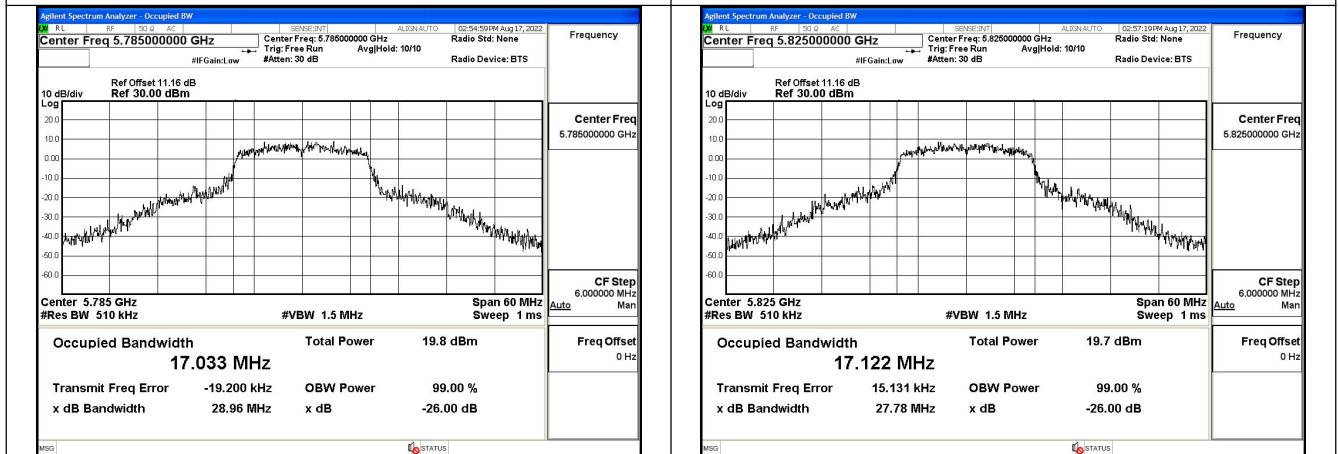
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

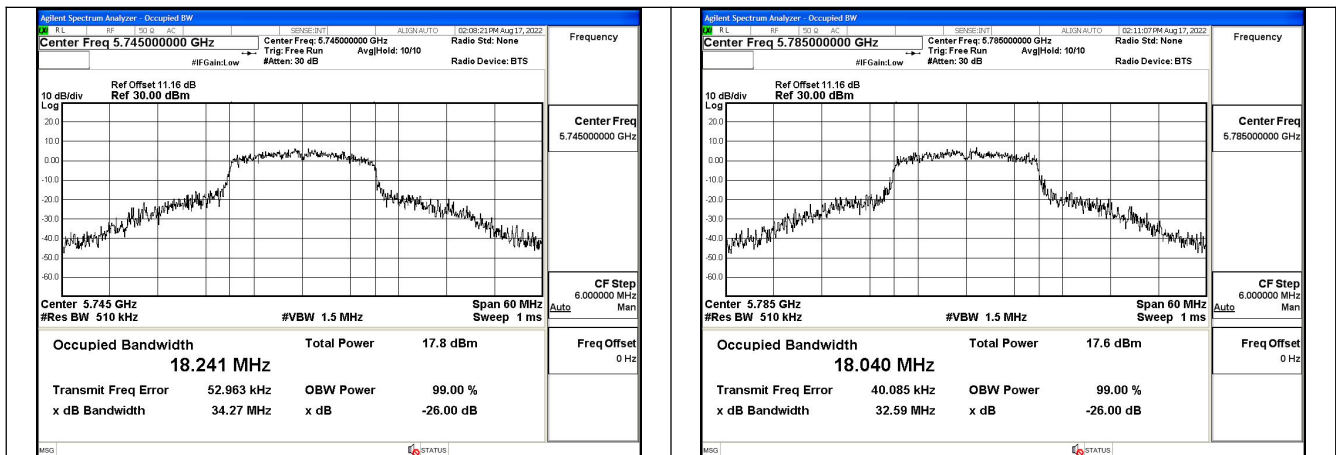
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Test Mode:802.11n HT20 5785MHz Chain1

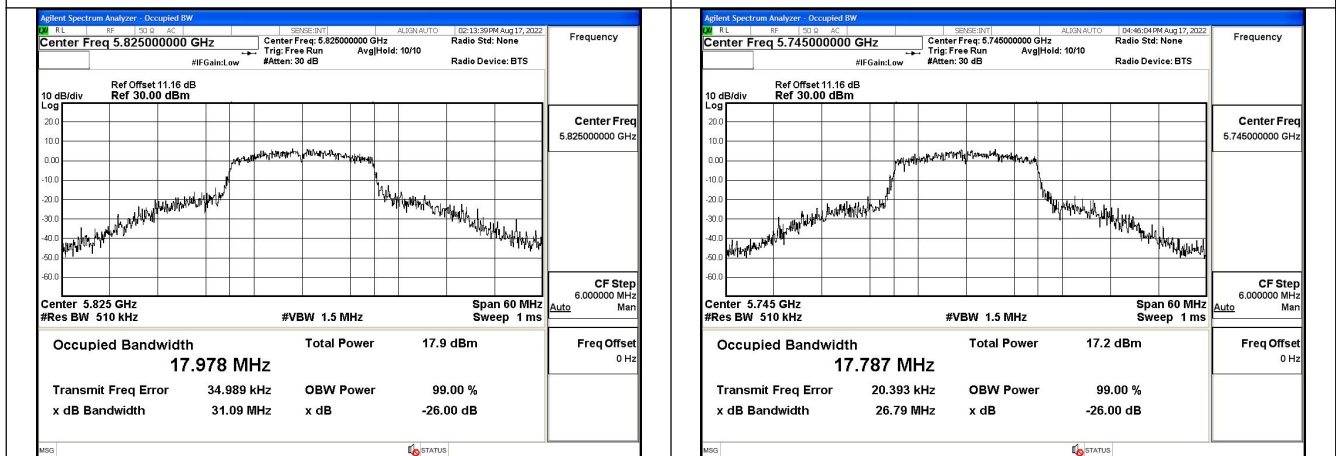
Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11ac VHT20



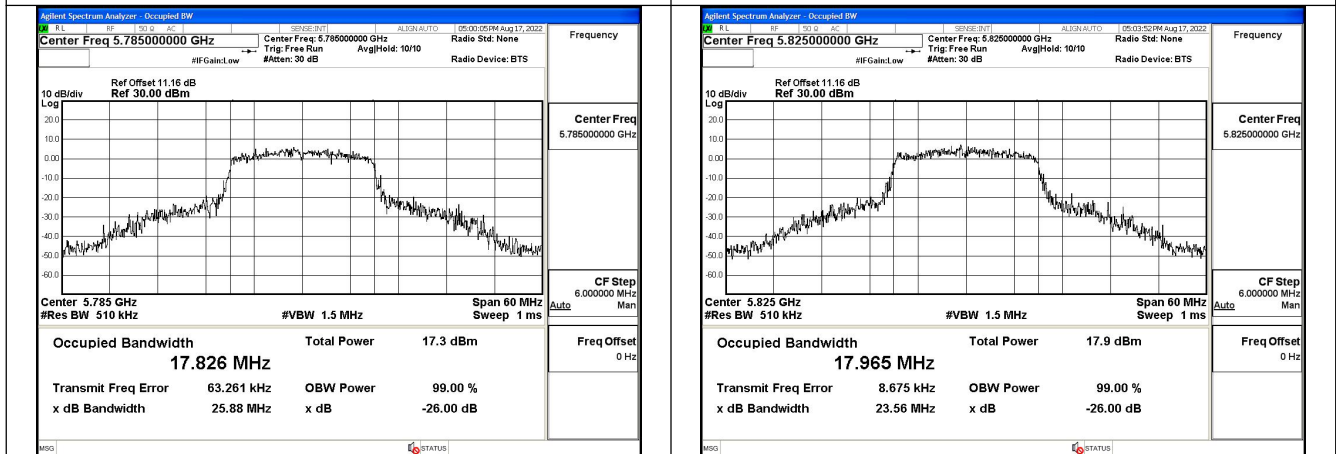
Test Mode:802.11ac VHT20 5745MHz Chain0

Test Mode:802.11ac VHT20 5785MHz Chain0



Test Mode:802.11ac VHT20 5825MHz Chain0

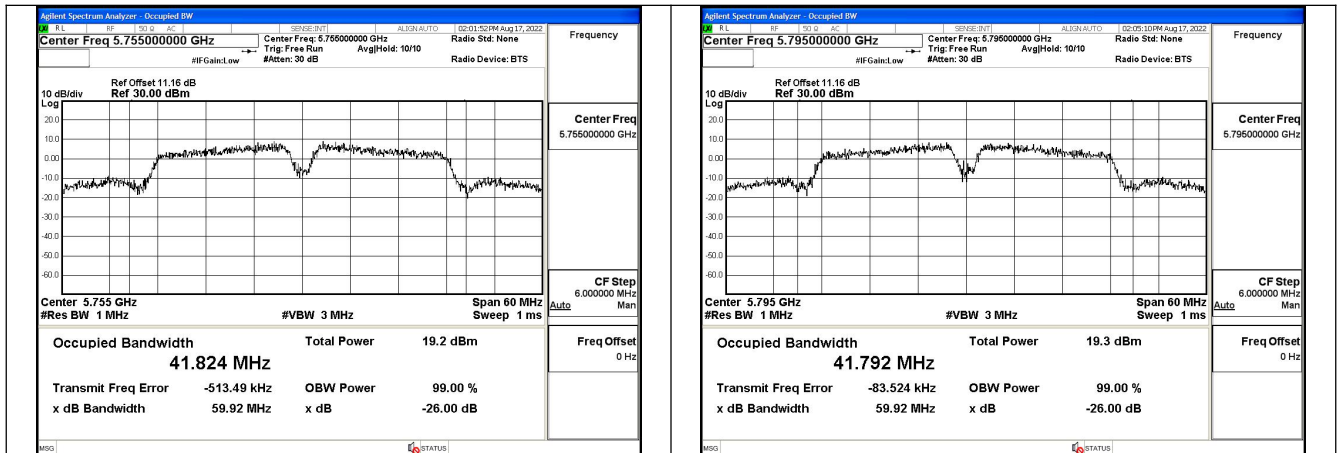
Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1

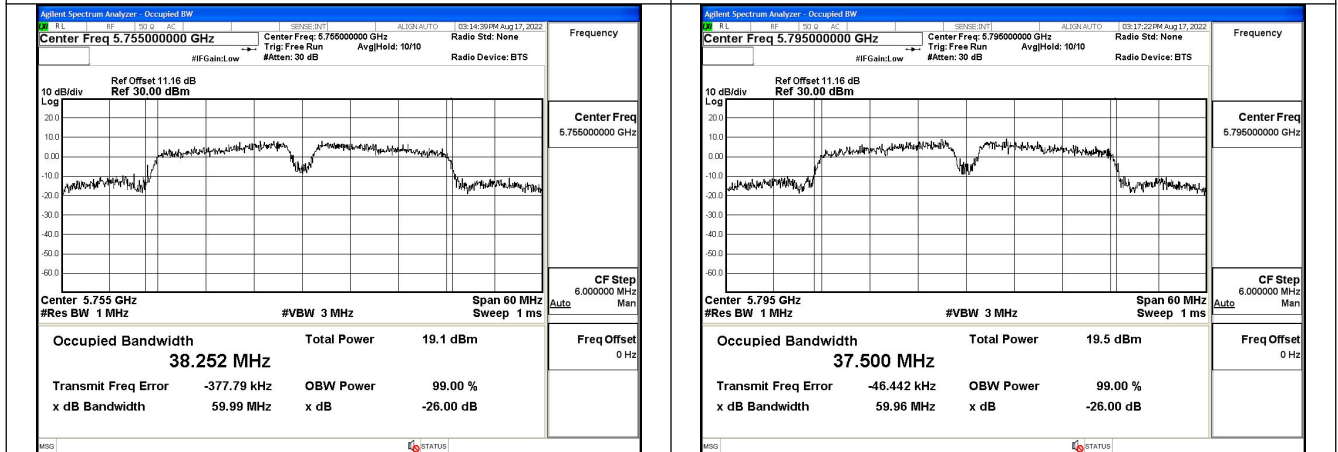
Test Mode:802.11ac VHT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0

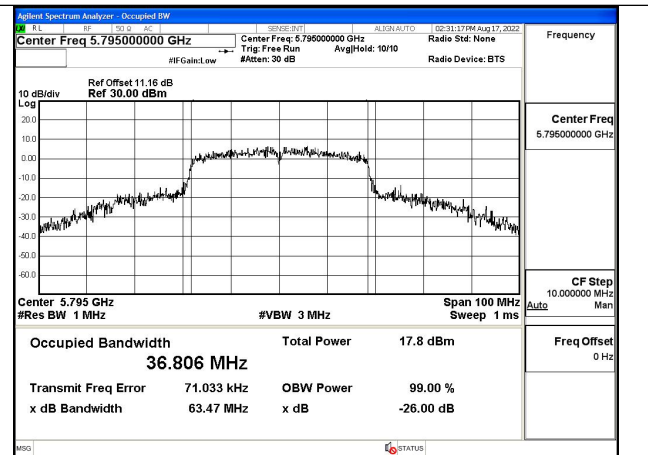
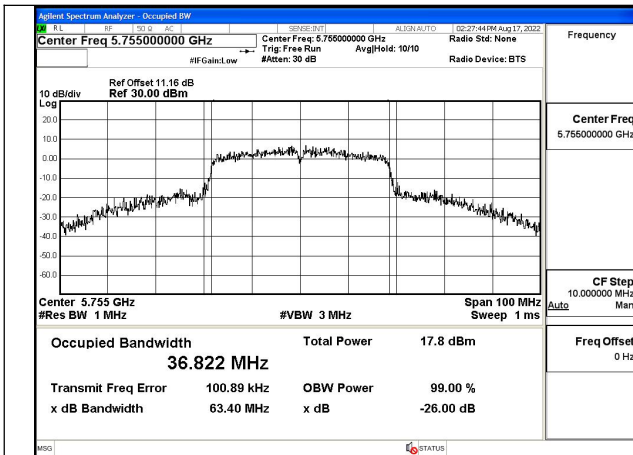
Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1

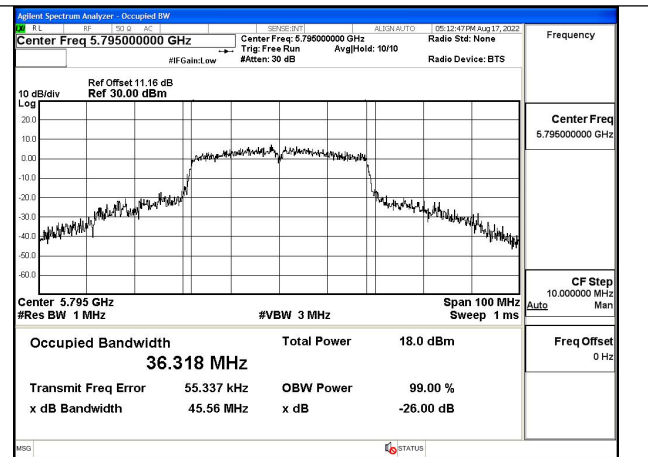
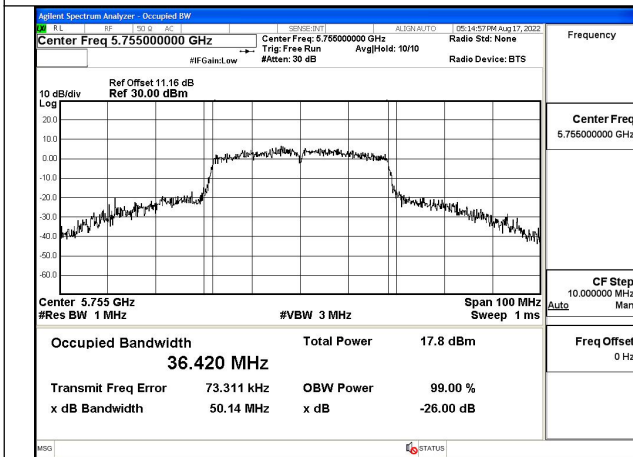
Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5755MHz Chain0

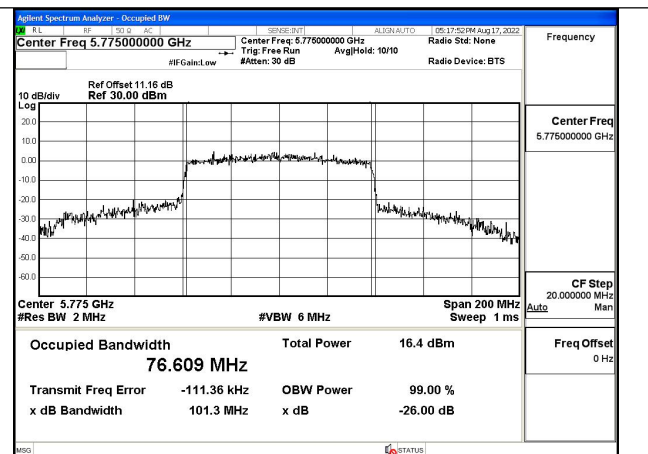
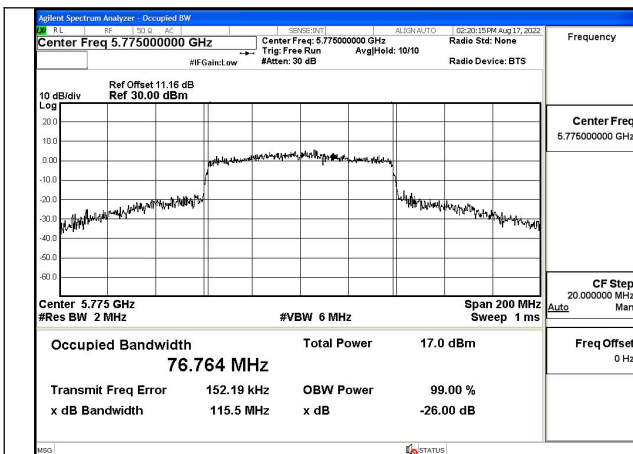
Test Mode:802.11ac VHT40 5795MHz Chain0



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

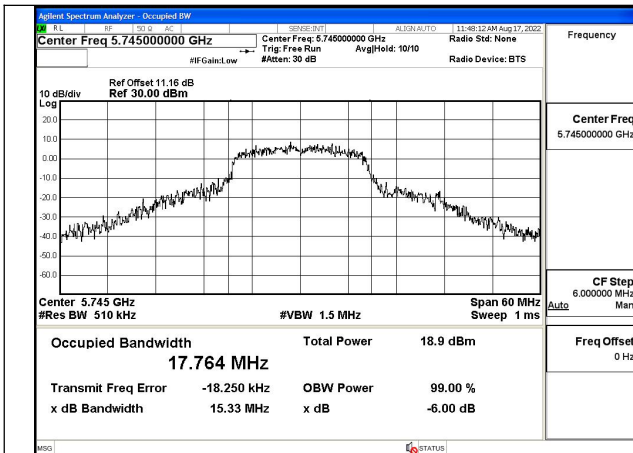
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	17.764	17.367	17.346
802.11a	Chain1	16.961	16.847	16.827
802.11n HT20	Chain0	19.320	18.220	18.236
802.11n HT20	Chain1	17.241	17.013	17.000
802.11ac VHT20	Chain0	18.148	18.070	17.994
802.11ac VHT20	Chain1	17.819	17.845	17.837

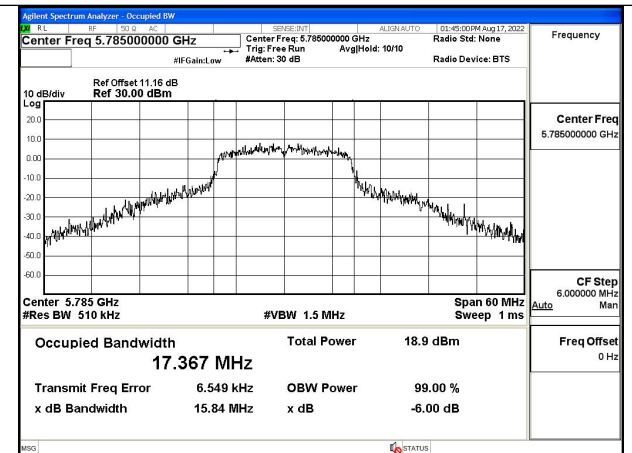
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	42.785	---	43.591
802.11n HT40	Chain1	38.488	---	37.834
802.11ac VHT40	Chain0	36.822	---	36.777
802.11ac VHT40	Chain1	36.441	---	36.387

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	77.029	---	---
802.11ac VHT80	Chain1	76.217	---	---

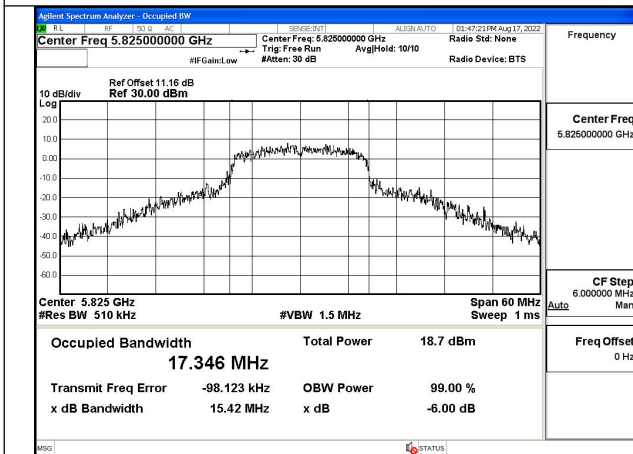
Test Mode: 802.11a



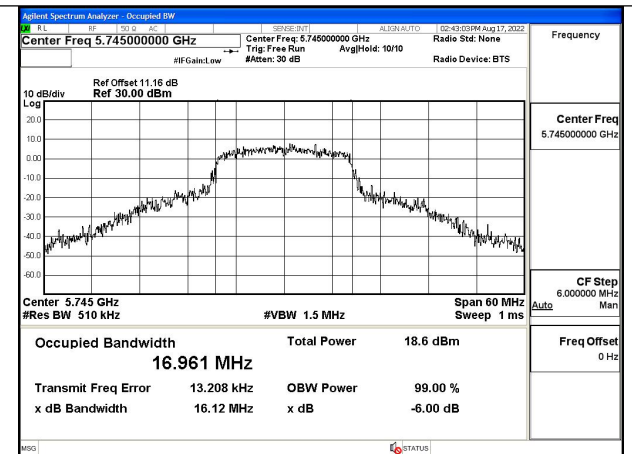
Test Mode:802.11a 5745MHz Chain0



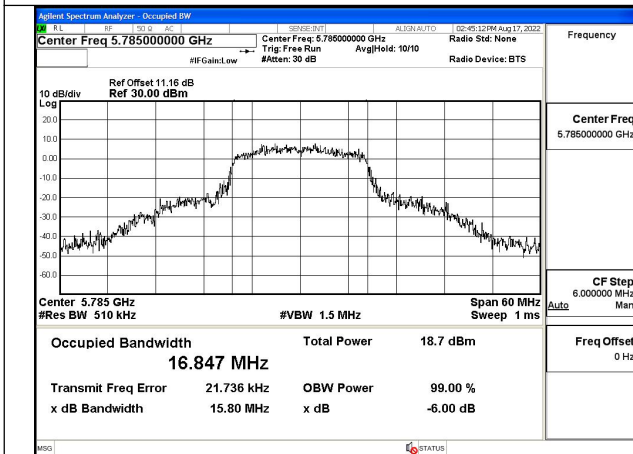
Test Mode:802.11a 5785MHz Chain0



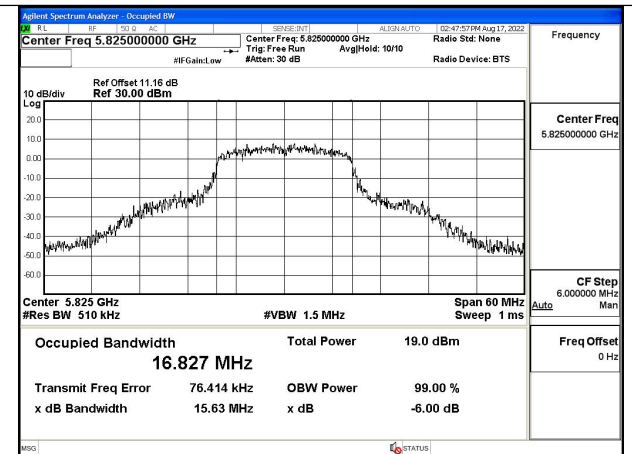
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

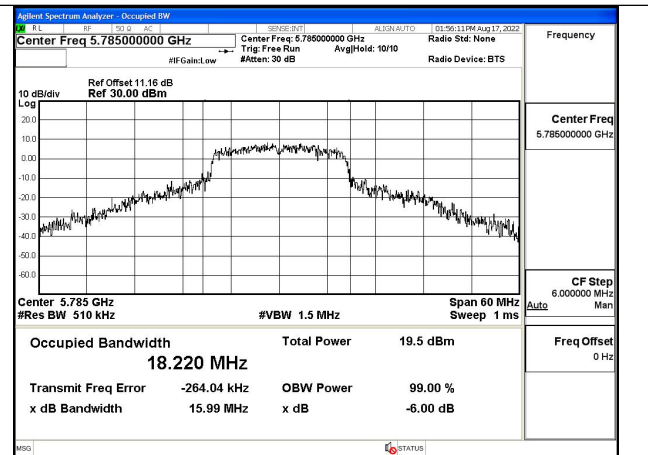
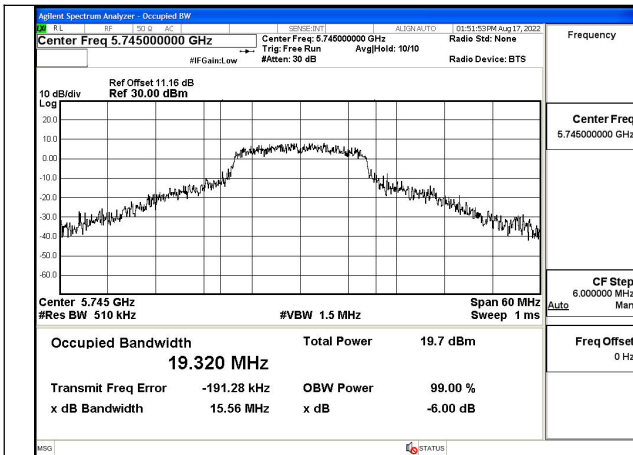


Test Mode:802.11a 5785MHz Chain1

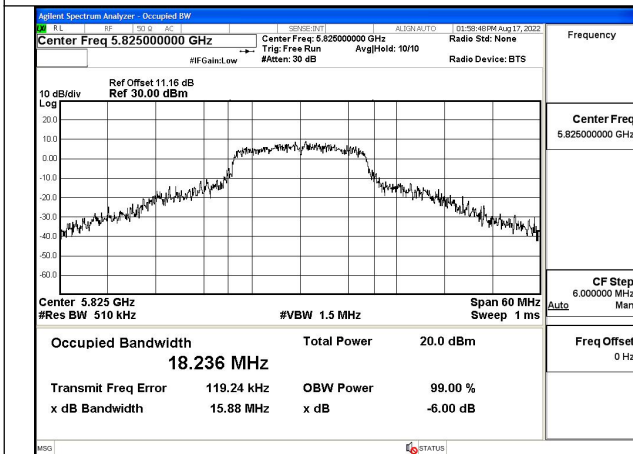


Test Mode:802.11a 5825MHz Chain1

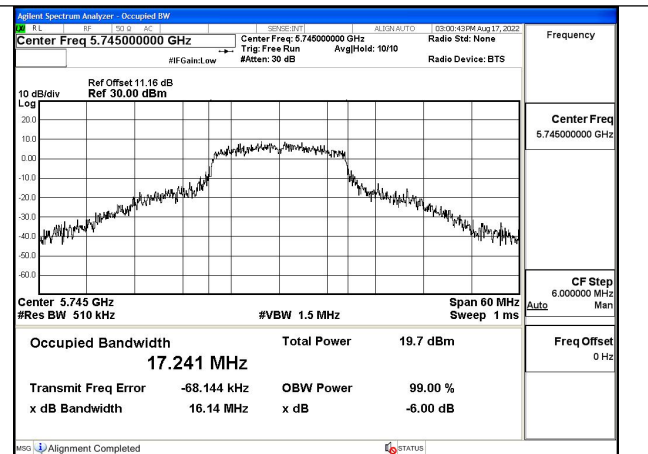
Test Mode: 802.11n HT20



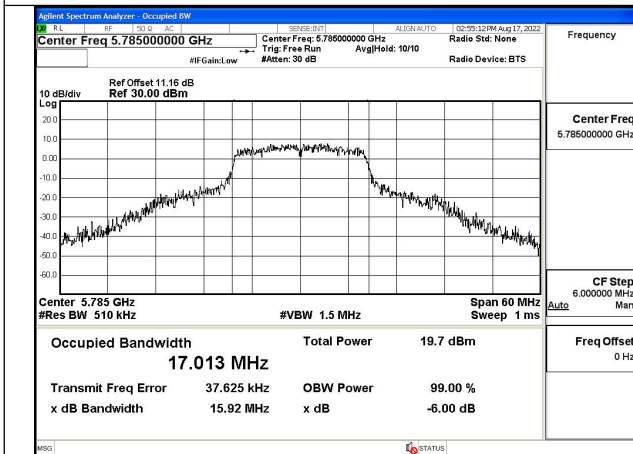
Test Mode: 802.11n HT20 5745MHz Chain0



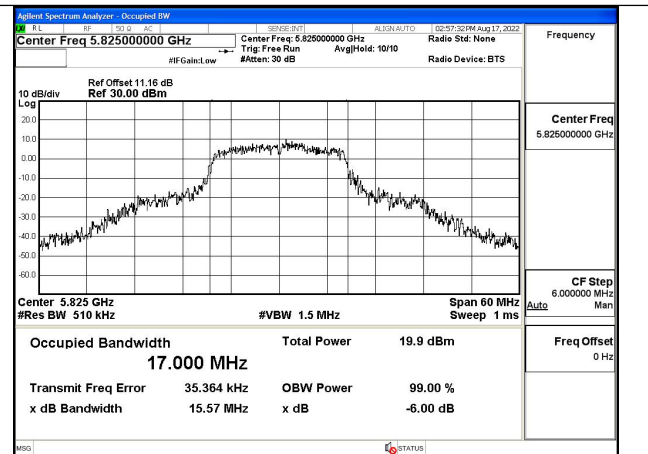
Test Mode: 802.11n HT20 5785MHz Chain0



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