

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	96.35%	0.16
802.11a	5180	96.30%	0.16
802.11n HT20	5180	96.07%	0.17
802.11n HT20	5180	95.95%	0.18
802.11ac VHT20	5180	93.31%	0.30
802.11ac VHT20	5180	93.34%	0.30
802.11n HT40	5190	93.04%	0.31
802.11n HT40	5190	92.99%	0.32
802.11ac VHT40	5190	89.18%	0.50
802.11ac VHT40	5190	89.35%	0.49
802.11ac VHT80	5210	84.38%	0.74
802.11ac VHT80	5210	84.55%	0.73

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

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conductedaverage power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	12.55	16.24
802.11a	NA	5180	Chain1	18.42	22.71
802.11a	NA	5220	Chain0	11.09	14.78
802.11a	NA	5220	Chain1	16.71	21.00
802.11a	NA	5240	Chain0	10.94	14.63
802.11a	NA	5240	Chain1	17.97	22.26
802.11ac VHT20	NA	5180	Chain0	9.83	13.52
802.11ac VHT20	NA	5180	Chain1	16.07	20.36
802.11ac VHT20	NA	5180	MIMO	17.00	21.29
802.11ac VHT20	NA	5220	Chain0	10.03	13.72
802.11ac VHT20	NA	5220	Chain1	15.01	19.30
802.11ac VHT20	NA	5220	MIMO	16.21	20.50
802.11ac VHT20	NA	5240	Chain0	9.85	13.54
802.11ac VHT20	NA	5240	Chain1	15.64	19.93
802.11ac VHT20	NA	5240	MIMO	16.66	20.95
802.11ac VHT40	NA	5190	Chain0	9.71	13.40
802.11ac VHT40	NA	5190	Chain1	15.73	20.02
802.11ac VHT40	NA	5190	MIMO	16.70	20.99
802.11ac VHT40	NA	5230	Chain0	9.22	12.91
802.11ac VHT40	NA	5230	Chain1	15.18	19.47
802.11ac VHT40	NA	5230	MIMO	16.16	20.45
802.11ac VHT80	NA	5210	Chain0	8.73	12.42

802.11ac VHT80	NA	5210	Chain1	14.37	18.66
802.11ac VHT80	NA	5210	MIMO	15.42	19.71
802.11n HT20	NA	5180	Chain0	11.29	14.98
802.11n HT20	NA	5180	Chain1	16.82	21.11
802.11n HT20	NA	5180	MIMO	17.89	22.18
802.11n HT20	NA	5220	Chain0	9.83	13.52
802.11n HT20	NA	5220	Chain1	15.65	19.94
802.11n HT20	NA	5220	MIMO	16.66	20.95
802.11n HT20	NA	5240	Chain0	10.73	14.42
802.11n HT20	NA	5240	Chain1	16.62	20.91
802.11n HT20	NA	5240	MIMO	17.62	21.91
802.11n HT40	NA	5190	Chain0	10.74	14.43
802.11n HT40	NA	5190	Chain1	16.51	20.80
802.11n HT40	NA	5190	MIMO	17.53	21.82
802.11n HT40	NA	5230	Chain0	10.27	13.96
802.11n HT40	NA	5230	Chain1	16.50	20.79
802.11n HT40	NA	5230	MIMO	17.43	21.72

Emission Bandwidth

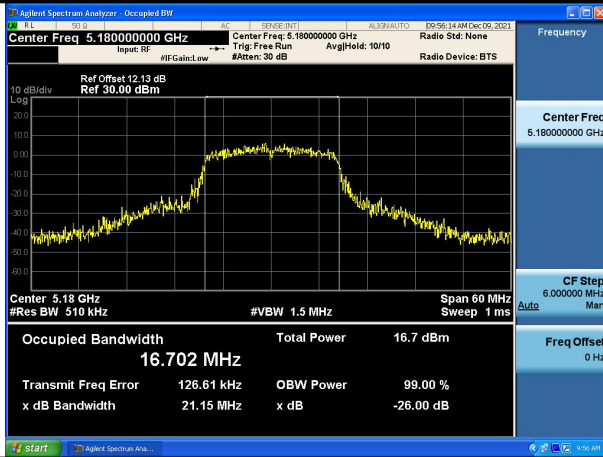
Offset 12.13dB = Attenuator 10dB + Temporary antenna connector loss 0.5dB + Cable loss 1.63dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	21.15	20.23	20.20
802.11a	Chain1	31.21	22.54	29.66
802.11n HT20	Chain0	21.08	19.88	20.38
802.11n HT20	Chain1	29.31	21.59	28.09
802.11ac VHT20	Chain0	20.41	20.65	20.27
802.11ac VHT20	Chain1	27.17	24.00	20.73

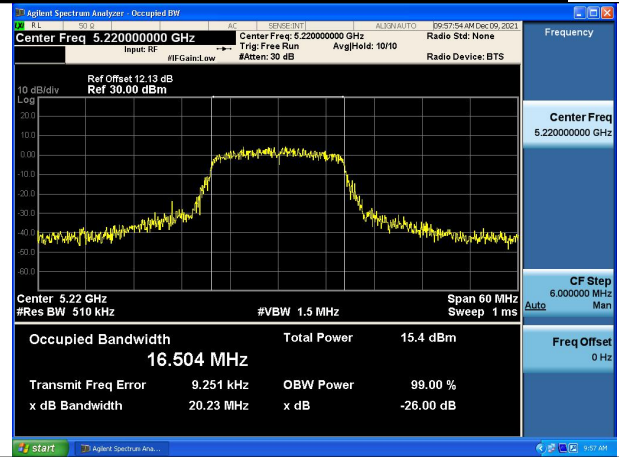
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	40.52	---	40.39
802.11n HT40	Chain1	48.23	---	53.43
802.11ac VHT40	Chain0	40.19	---	40.91
802.11ac VHT40	Chain1	57.36	---	47.48

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	80.60	---	---
802.11ac VHT80	Chain1	92.07	---	---

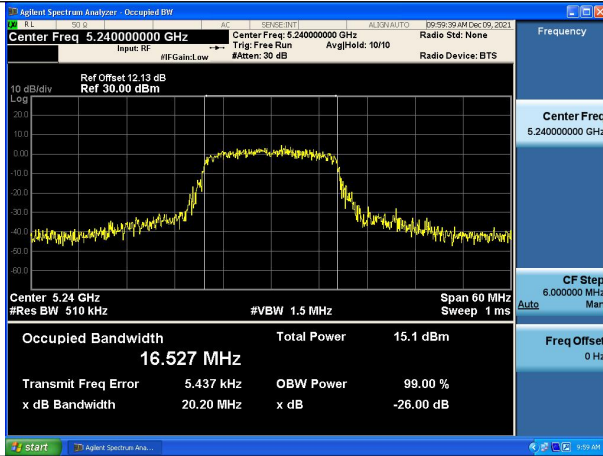
Test Mode: 802.11a



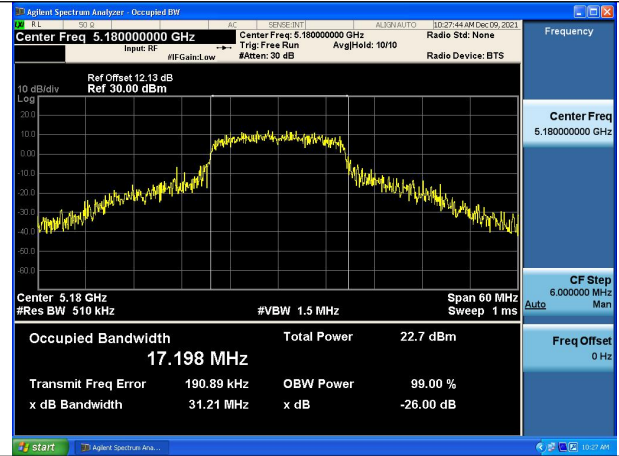
Test Mode:802.11a 5180MHz Chain0



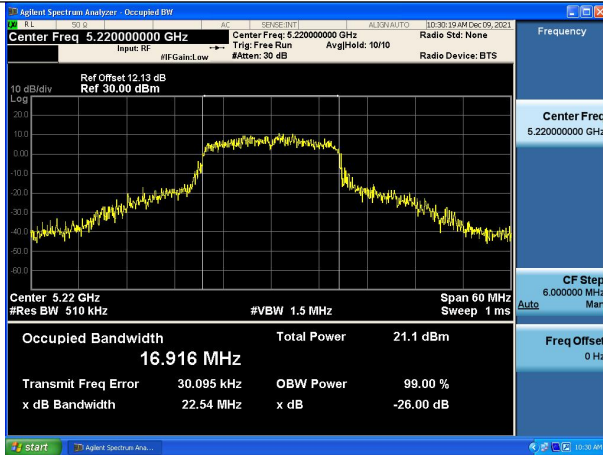
Test Mode:802.11a 5220MHz Chain0



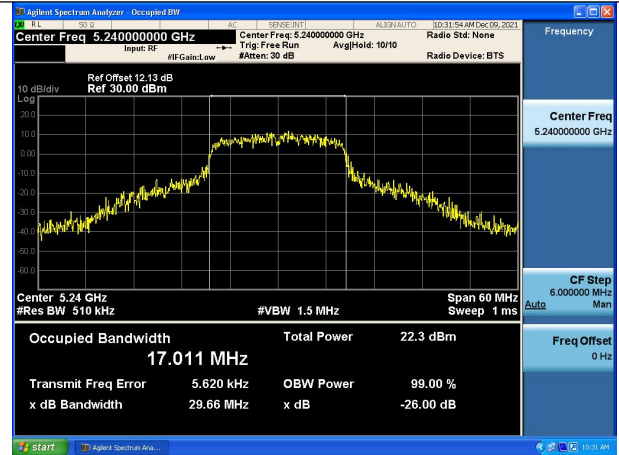
Test Mode:802.11a 5240MHz Chain0



Test Mode:802.11a 5180MHz Chain1

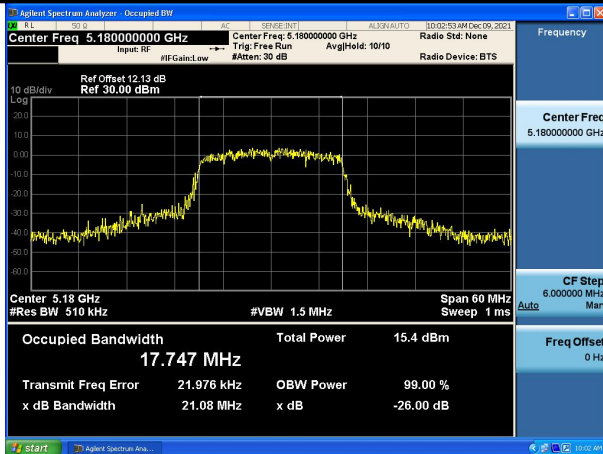


Test Mode:802.11a 5220MHz Chain1

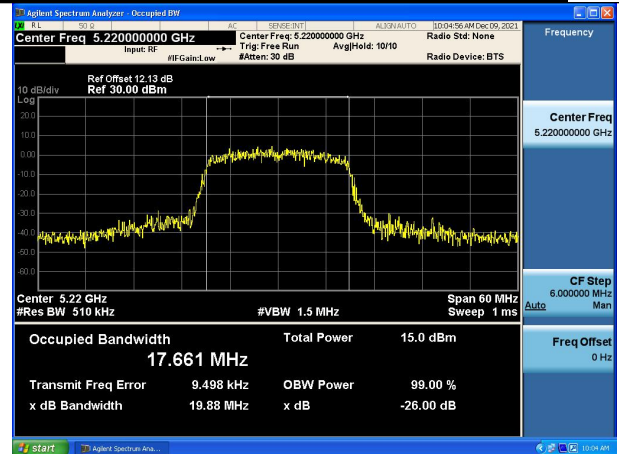


Test Mode:802.11a 5240MHz Chain1

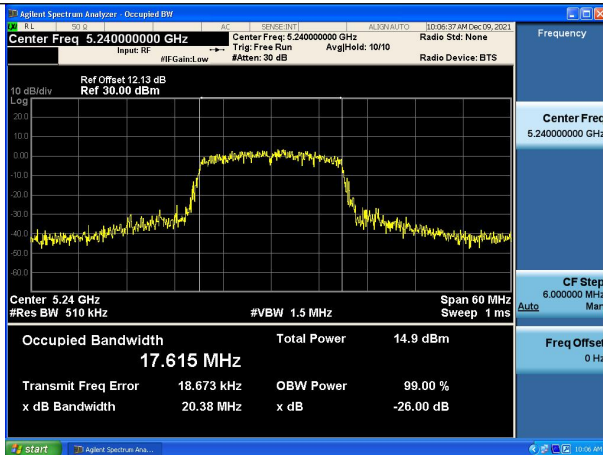
Test Mode: 802.11n HT20



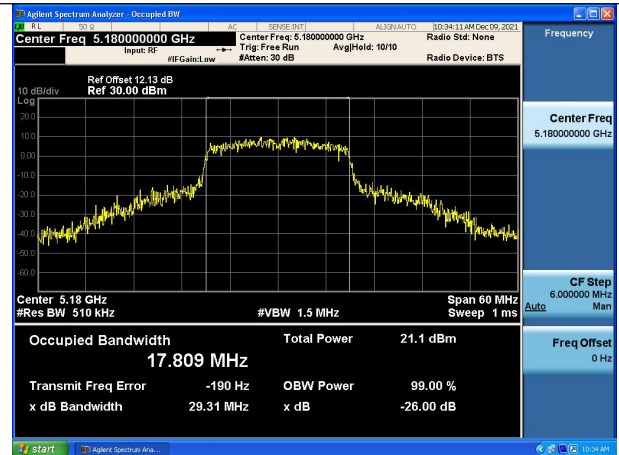
Test Mode:802.11n HT20 5180MHz Chain0



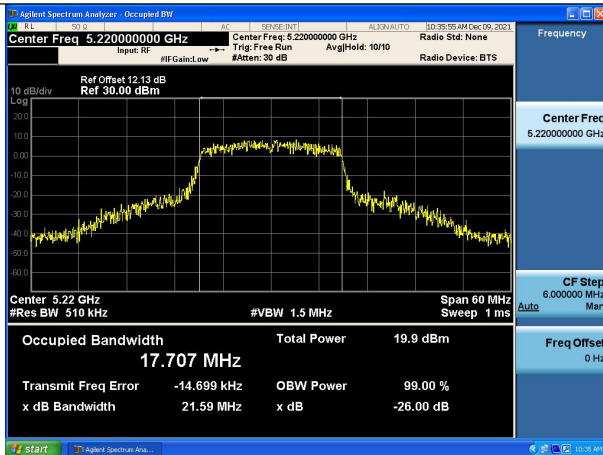
Test Mode:802.11n HT20 5220MHz Chain0



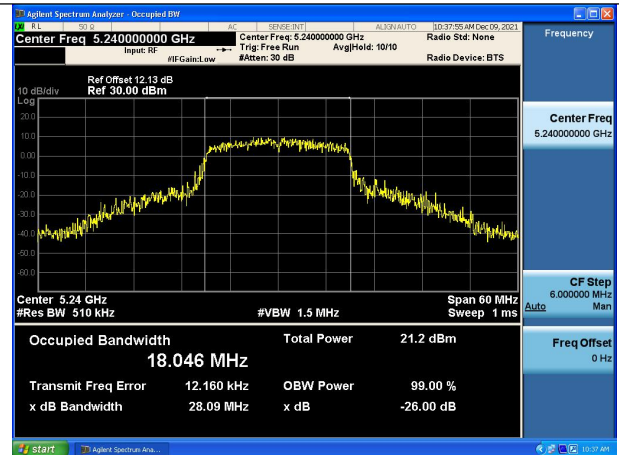
Test Mode:802.11n HT20 5240MHz Chain0



Test Mode:802.11n HT20 5180MHz Chain1

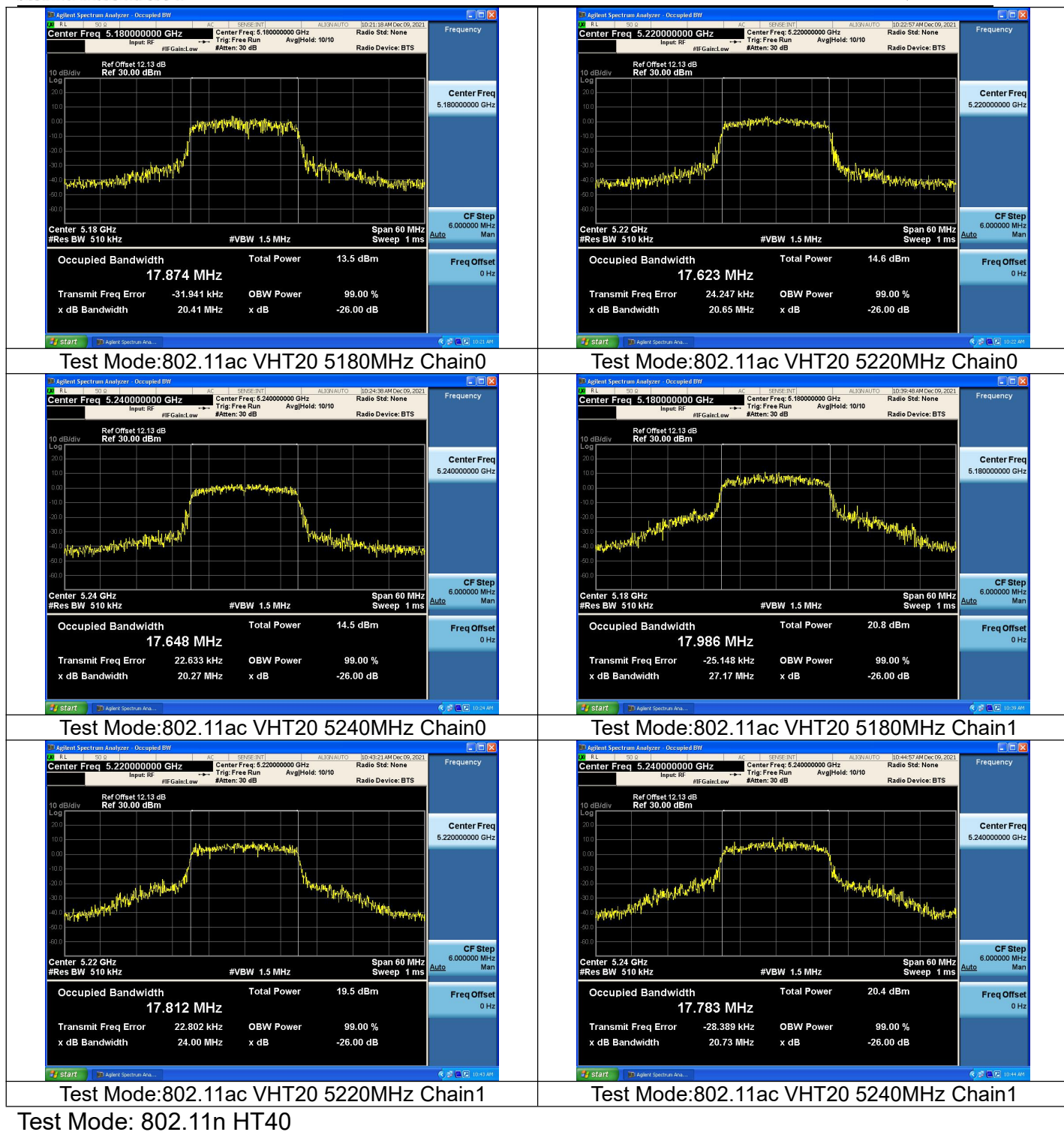


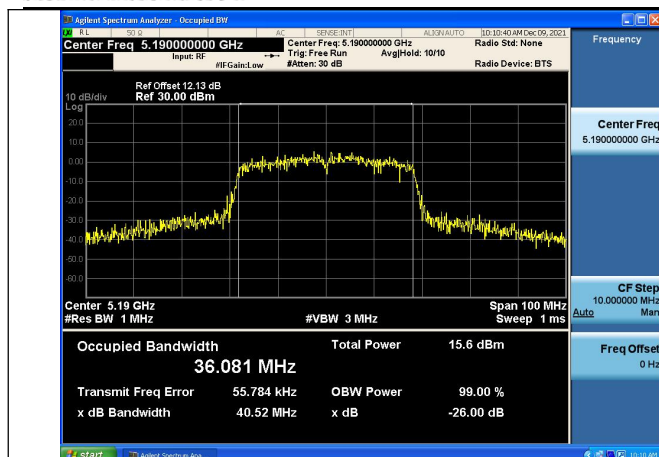
Test Mode:802.11n HT20 5220MHz Chain1



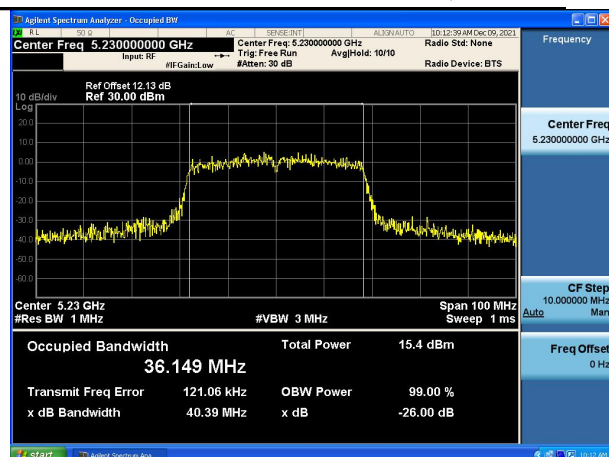
Test Mode:802.11n HT20 5240MHz Chain1

Test Mode: 802.11ac VHT20

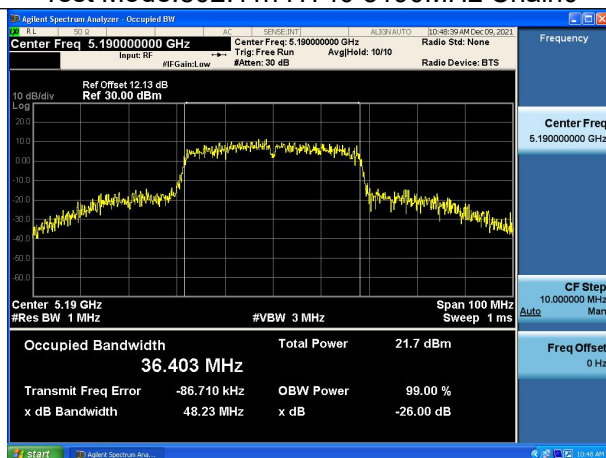




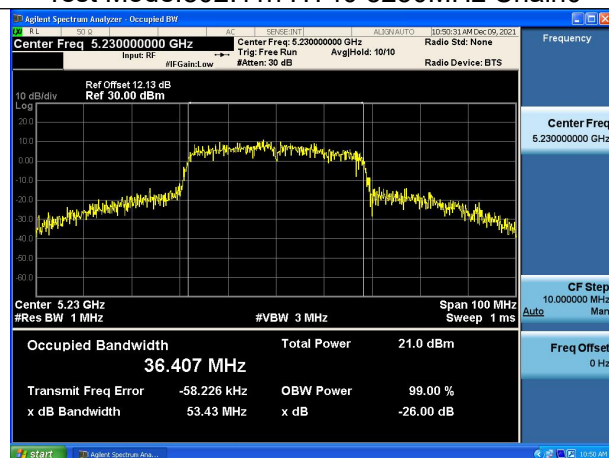
Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

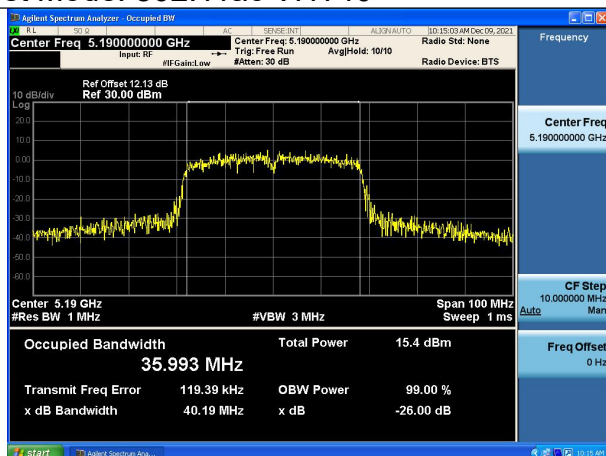


Test Mode:802.11n HT40 5190MHz Chain1

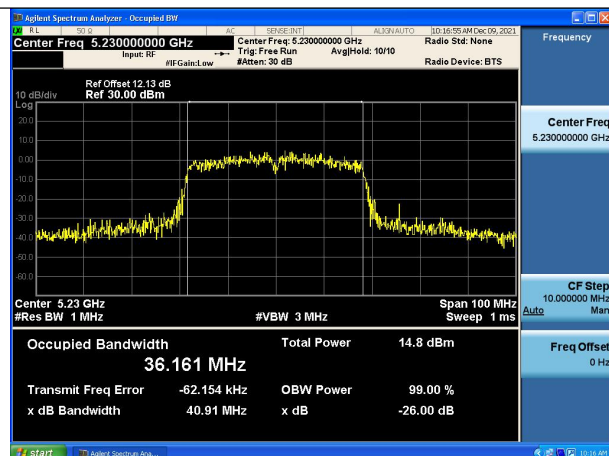


Test Mode:802.11n HT40 5230MHz Chain1

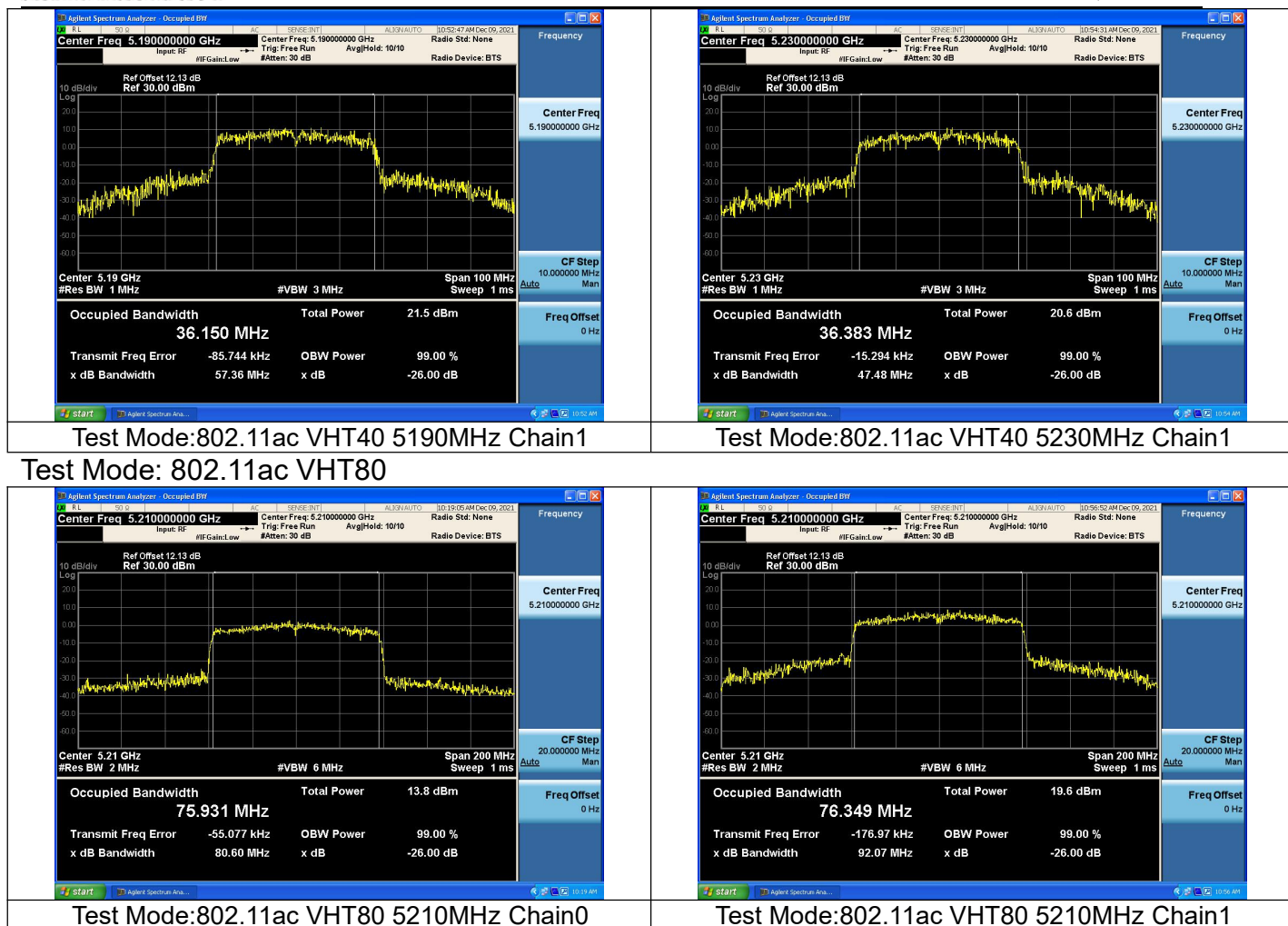
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0



Occupied Bandwidth

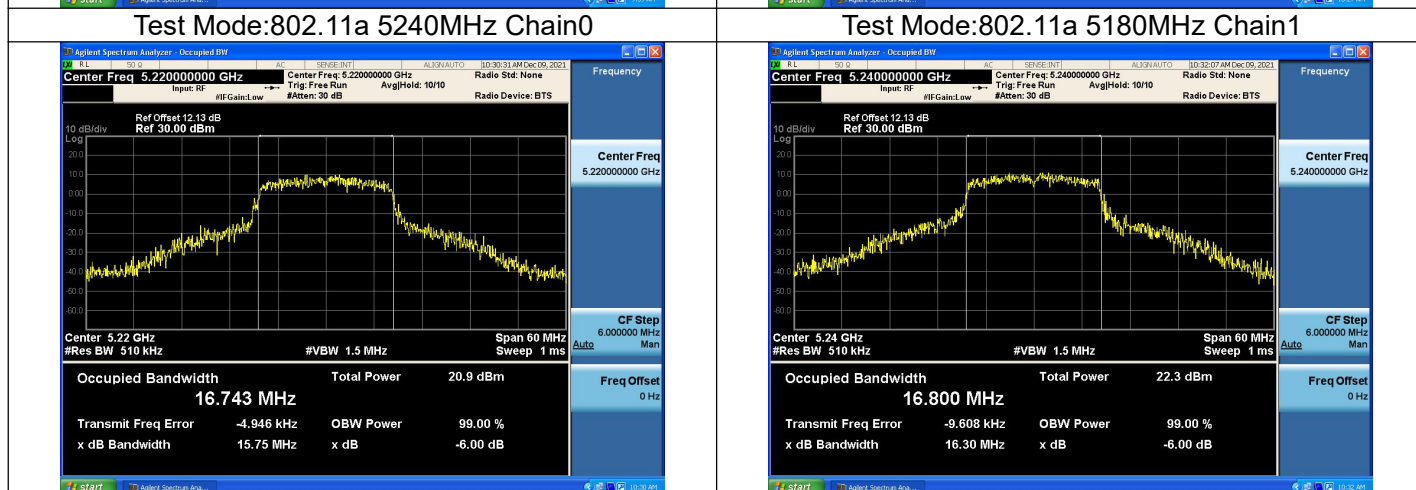
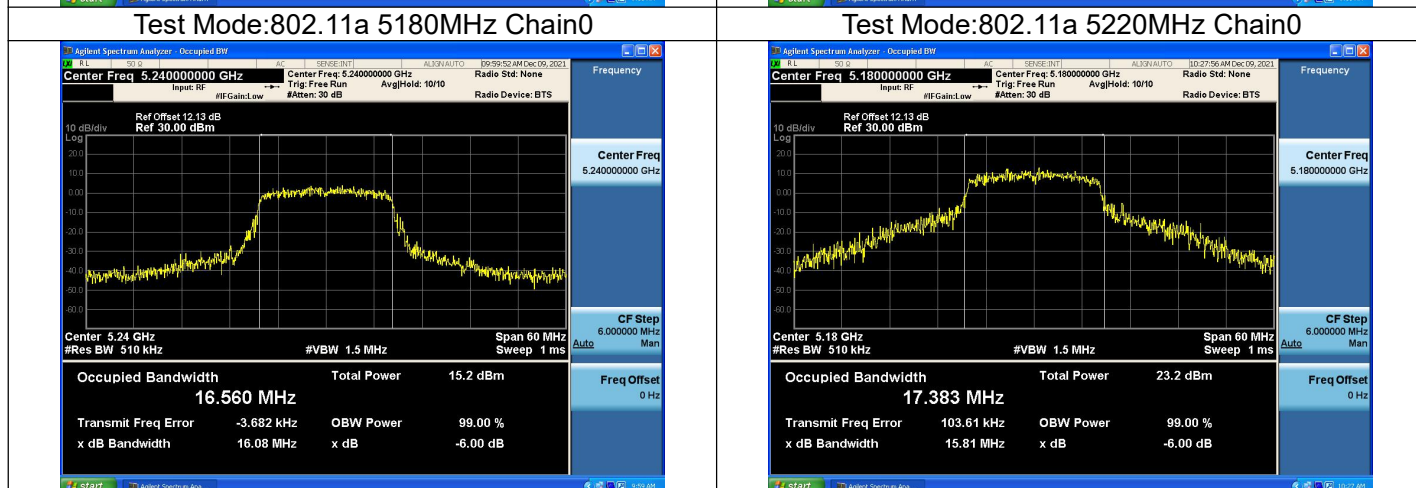
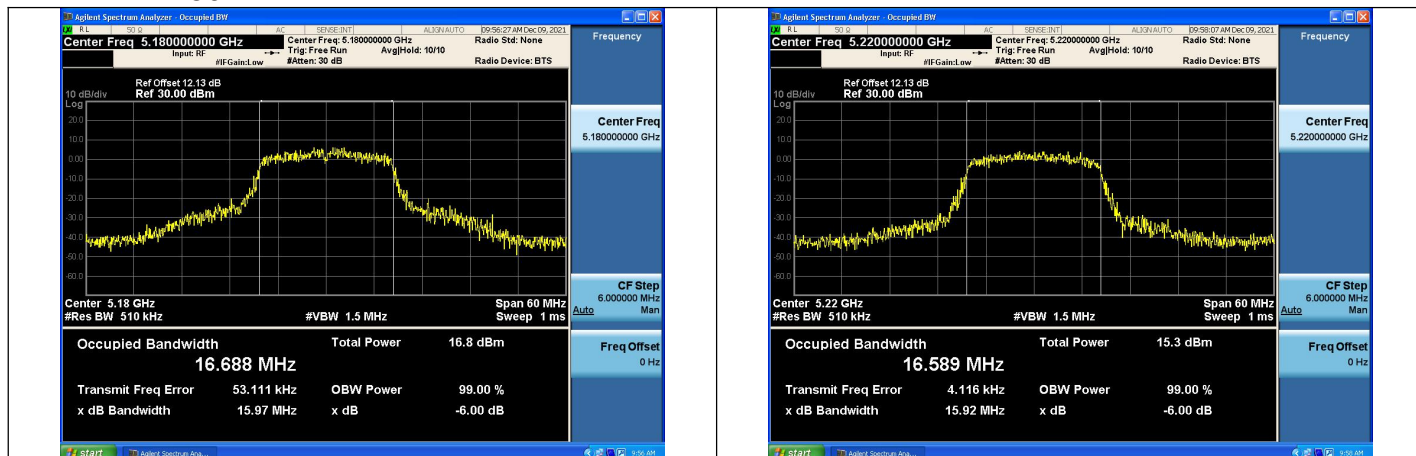
Offset 12.13dB = Attenuator 10dB + Temporary antenna connector loss 0.5dB + Cable loss 1.63dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554 5180MHz	Channel No.562 5220MHz	Channel No.566 5240MHz
802.11a	Chain0	16.688	16.589	16.560
802.11a	Chain1	17.383	16.743	16.800
802.11n HT20	Chain0	17.627	17.656	17.671
802.11n HT20	Chain1	17.877	17.660	17.832
802.11ac VHT20	Chain0	17.621	17.665	17.660
802.11ac VHT20	Chain1	17.793	17.790	17.865

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556 5190MHz	---	Channel No.564 5230MHz
802.11n HT40	Chain0	36.307	---	36.131
802.11n HT40	Chain1	36.436	---	36.529
802.11ac VHT40	Chain0	36.162	---	36.096
802.11ac VHT40	Chain1	36.641	---	36.208

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.560	---	---
802.11ac VHT80	Chain0	5210MHz	---	---
802.11ac VHT80	Chain1	76.171	---	---
802.11ac VHT80	Chain1	76.251	---	---

Test Mode: 802.11a



Test Mode: 802.11n HT20