

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	98.65%	0
802.11a	5180	98.69%	0
802.11n HT20	5180	98.51%	0
802.11n HT20	5180	98.69%	0
802.11ac VHT20	5180	98.57%	0
802.11ac VHT20	5180	98.55%	0
802.11n HT40	5190	97.35%	0.12
802.11n HT40	5190	97.34%	0.12
802.11ac VHT40	5190	97.25%	0.12
802.11ac VHT40	5190	97.24%	0.12
802.11ac VHT80	5210	94.76%	0.23
802.11ac VHT80	5210	94.88%	0.23

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	14.96	19.03
802.11a	NA	5180	Chain1	16.65	17.65
802.11a	NA	5220	Chain0	15.28	19.35
802.11a	NA	5220	Chain1	16.24	17.24
802.11a	NA	5240	Chain0	15.43	19.50
802.11a	NA	5240	Chain1	16.08	17.08
802.11n HT20	NA	5180	Chain0	14.91	18.98
802.11n HT20	NA	5180	Chain1	16.54	17.54
802.11n HT20	NA	5180	MIMO	18.81	20.99
802.11n HT20	NA	5220	Chain0	15.14	19.21
802.11n HT20	NA	5220	Chain1	16.20	17.20
802.11n HT20	NA	5220	MIMO	18.71	20.89
802.11n HT20	NA	5240	Chain0	15.27	19.34
802.11n HT20	NA	5240	Chain1	16.04	17.04
802.11n HT20	NA	5240	MIMO	18.68	20.86
802.11ac VHT20	NA	5180	Chain0	14.84	18.91
802.11ac VHT20	NA	5180	Chain1	16.23	17.23
802.11ac VHT20	NA	5180	MIMO	18.60	20.78
802.11ac VHT20	NA	5220	Chain0	15.12	19.19
802.11ac VHT20	NA	5220	Chain1	16.08	17.08
802.11ac VHT20	NA	5220	MIMO	18.64	20.82
802.11ac VHT20	NA	5240	Chain0	15.26	19.33
802.11ac VHT20	NA	5240	Chain1	16.06	17.06

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conductedaverage power output(dBm)	EIRP (dBm)
802.11ac VHT20	NA	5240	MIMO	18.69	20.87
802.11n HT40	NA	5190	Chain0	14.88	18.95
802.11n HT40	NA	5190	Chain1	16.35	17.35
802.11n HT40	NA	5190	MIMO	18.69	20.87
802.11n HT40	NA	5230	Chain0	15.19	19.26
802.11n HT40	NA	5230	Chain1	16.16	17.16
802.11n HT40	NA	5230	MIMO	18.71	20.89
802.11ac VHT40	NA	5190	Chain0	14.82	18.89
802.11ac VHT40	NA	5190	Chain1	16.33	17.33
802.11ac VHT40	NA	5190	MIMO	18.65	20.83
802.11ac VHT40	NA	5230	Chain0	15.25	19.32
802.11ac VHT40	NA	5230	Chain1	16.15	17.15
802.11ac VHT40	NA	5230	MIMO	18.73	20.91
802.11ac VHT80	NA	5210	Chain0	14.71	18.78
802.11ac VHT80	NA	5210	Chain1	15.88	16.88
802.11ac VHT80	NA	5210	MIMO	18.34	20.52

Emission Bandwidth

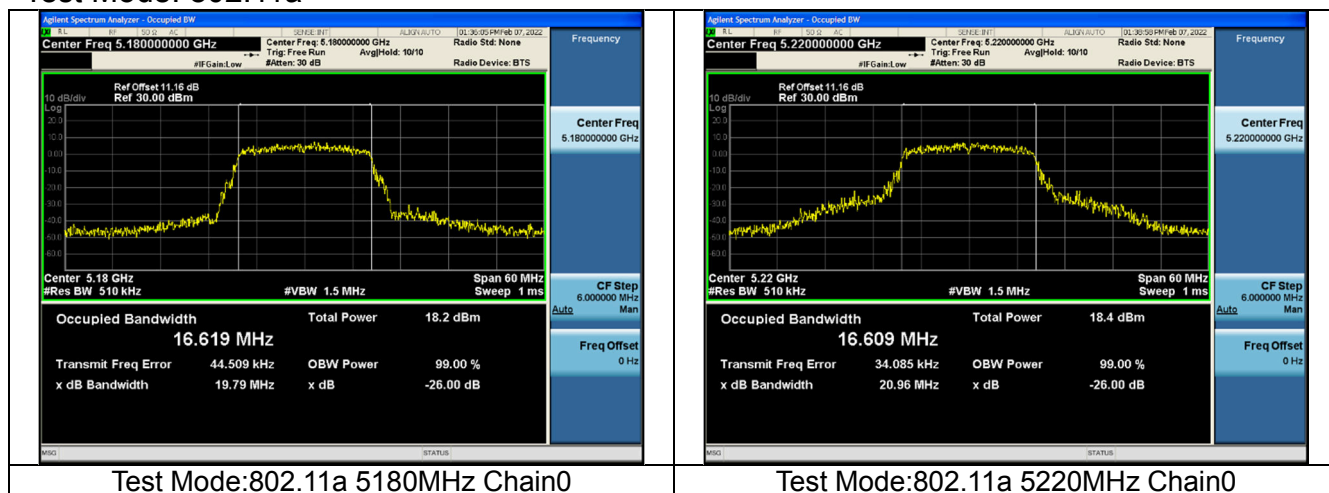
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

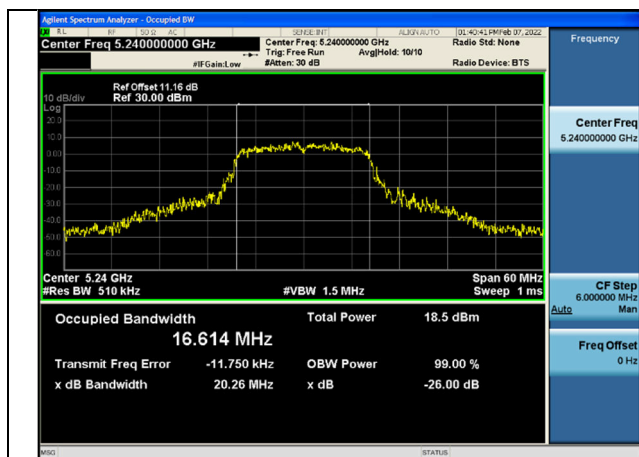
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554 5180MHz	Channel No.562 5220MHz	Channel No.566 5240MHz
802.11a	Chain0	19.79	20.96	20.26
802.11a	Chain1	19.83	19.83	19.50
802.11n HT20	Chain0	20.23	20.14	20.26
802.11n HT20	Chain1	20.29	20.50	20.45
802.11ac VHT20	Chain0	20.20	20.47	20.04
802.11ac VHT20	Chain1	20.03	20.19	19.98

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556 5190MHz	---	Channel No.564 5230MHz
802.11n HT40	Chain0	40.66	---	40.61
802.11n HT40	Chain1	40.35	---	40.10
802.11ac VHT40	Chain0	40.47	---	41.20
802.11ac VHT40	Chain1	40.39	---	39.78

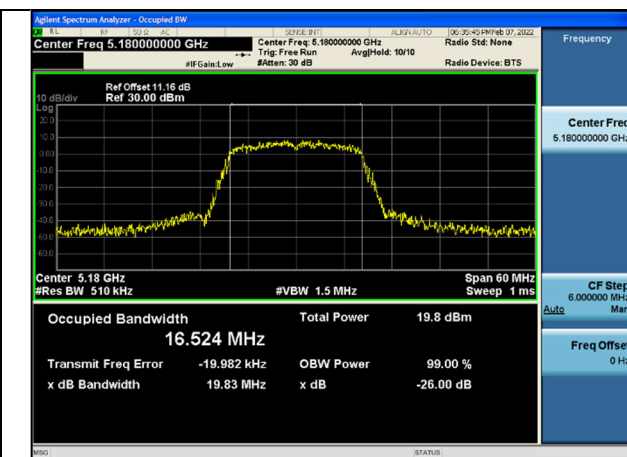
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.560 5210MHz	---	---
802.11ac VHT80	Chain0	81.28	---	---
802.11ac VHT80	Chain1	80.56	---	---

Test Mode: 802.11a

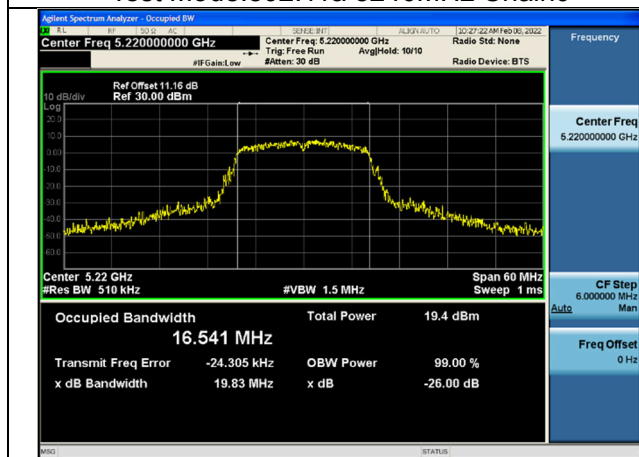




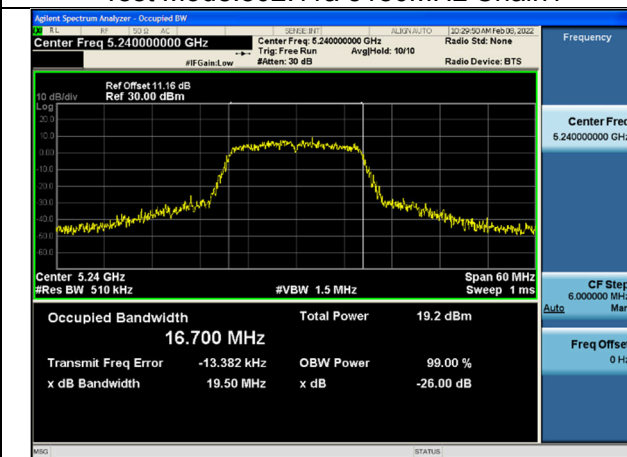
Test Mode:802.11a 5240MHz Chain0



Test Mode:802.11a 5180MHz Chain1

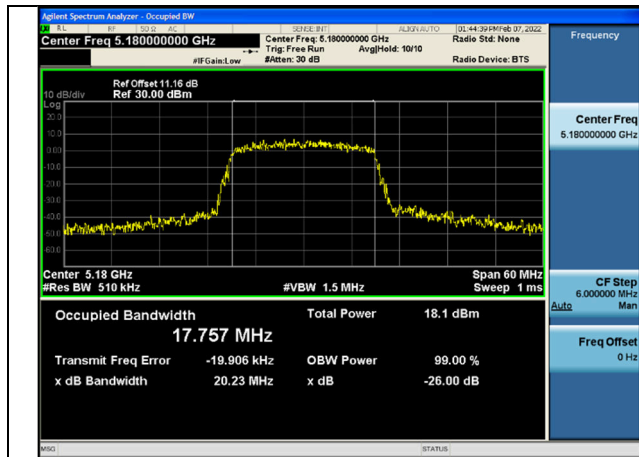


Test Mode:802.11a 5220MHz Chain1

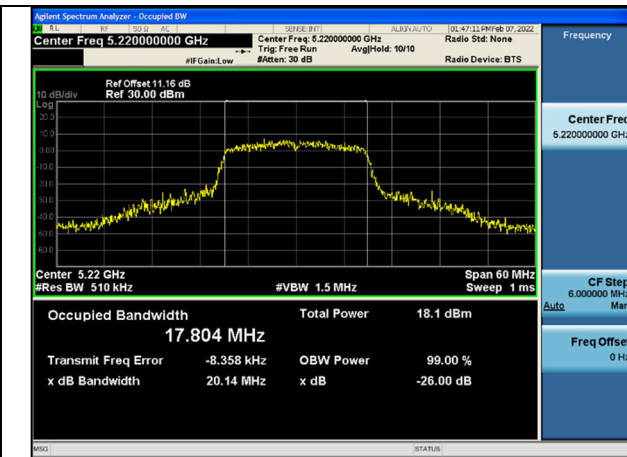


Test Mode:802.11a 5240MHz Chain1

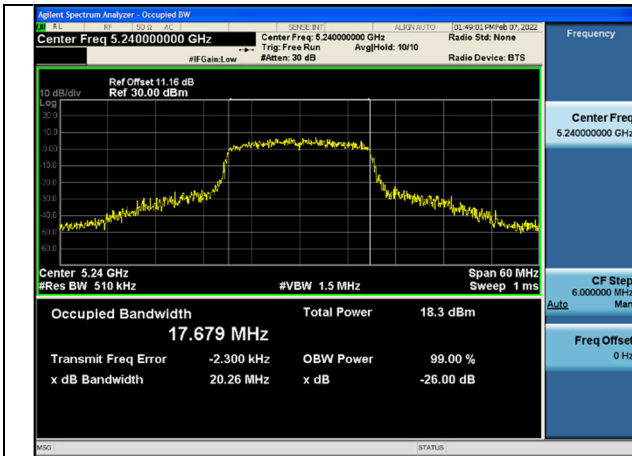
Test Mode: 802.11n HT20



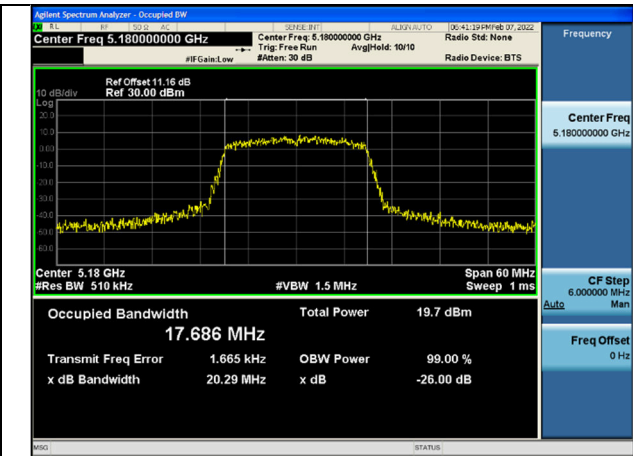
Test Mode:802.11n HT20 5180MHz Chain0



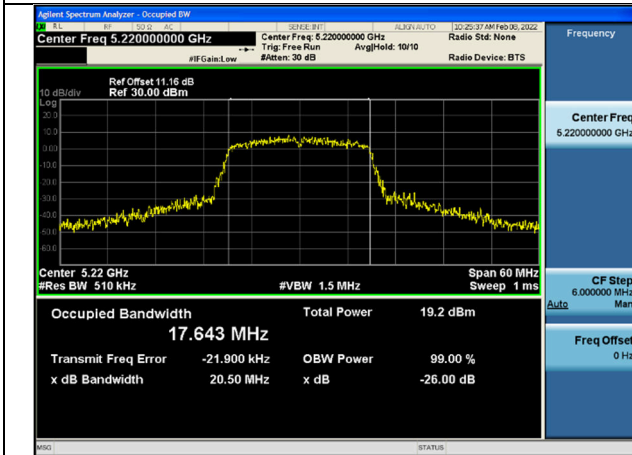
Test Mode:802.11n HT20 5220MHz Chain0



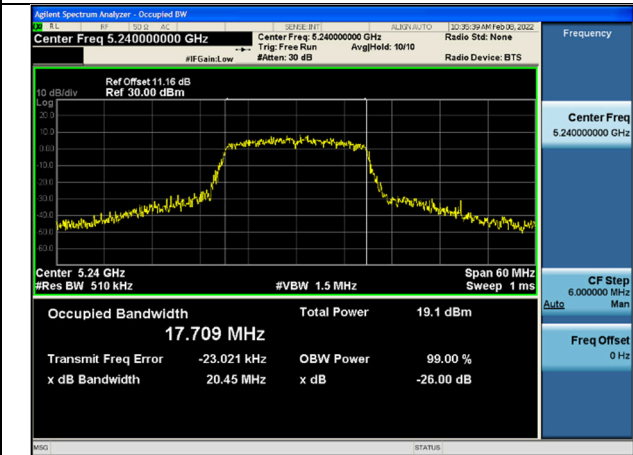
Test Mode:802.11n HT20 5240MHz Chain0



Test Mode:802.11n HT20 5180MHz Chain1

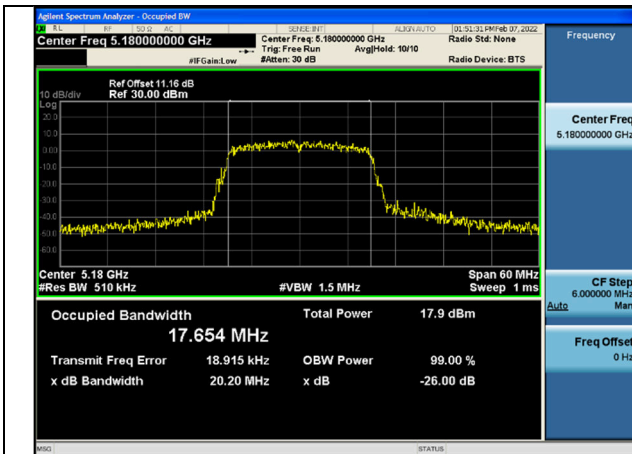


Test Mode:802.11n HT20 5220MHz Chain1

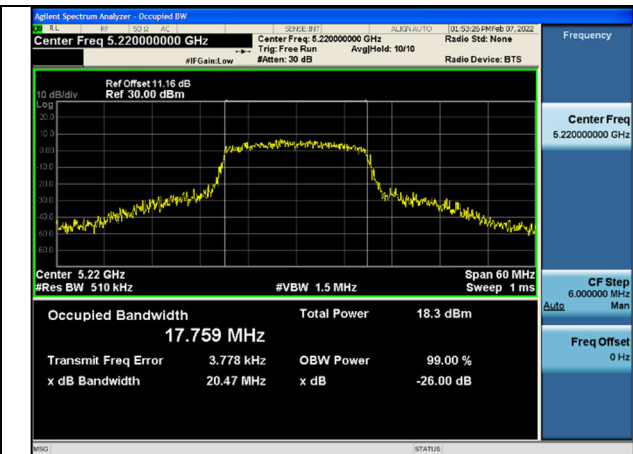


Test Mode:802.11n HT20 5240MHz Chain1

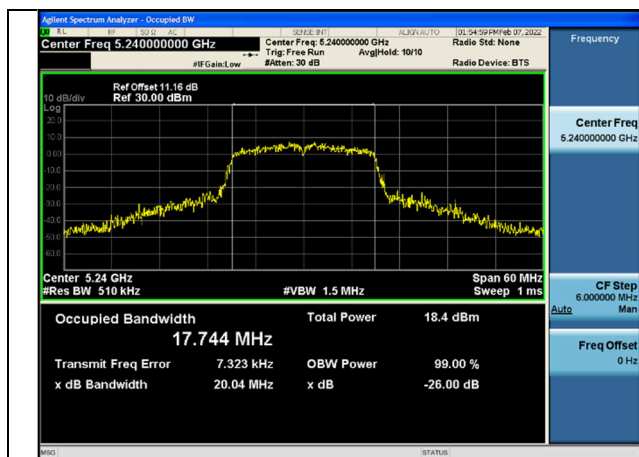
Test Mode: 802.11ac VHT20



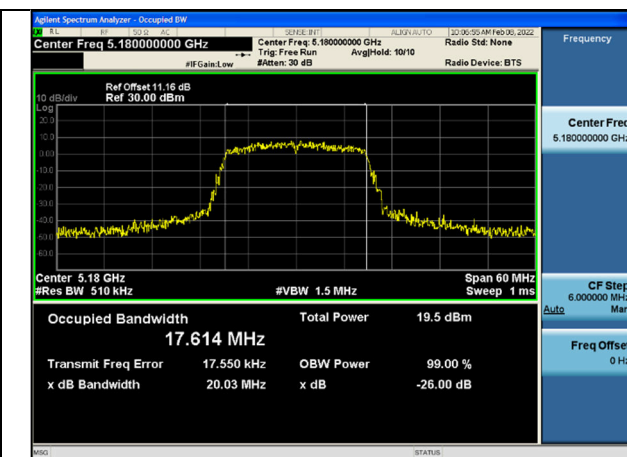
Test Mode:802.11ac VHT20 5180MHz Chain0



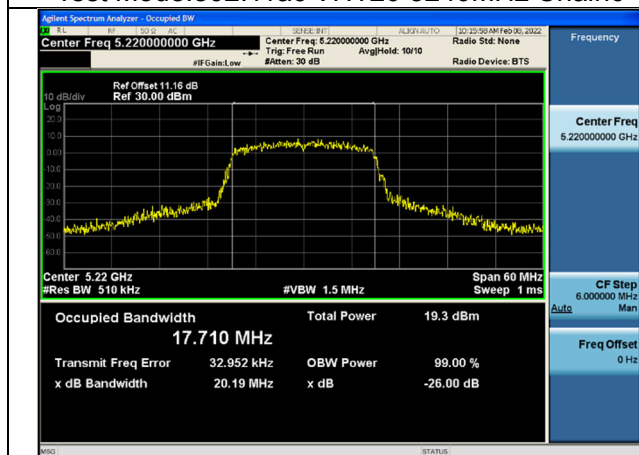
Test Mode:802.11ac VHT20 5220MHz Chain0



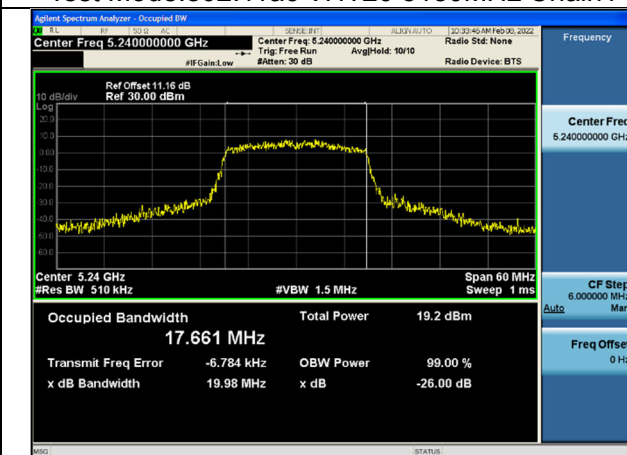
Test Mode:802.11ac VHT20 5240MHz Chain0



Test Mode:802.11ac VHT20 5180MHz Chain1

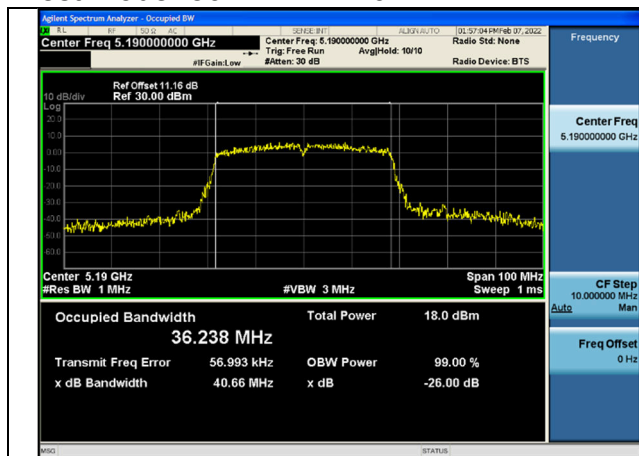


Test Mode:802.11ac VHT20 5220MHz Chain1

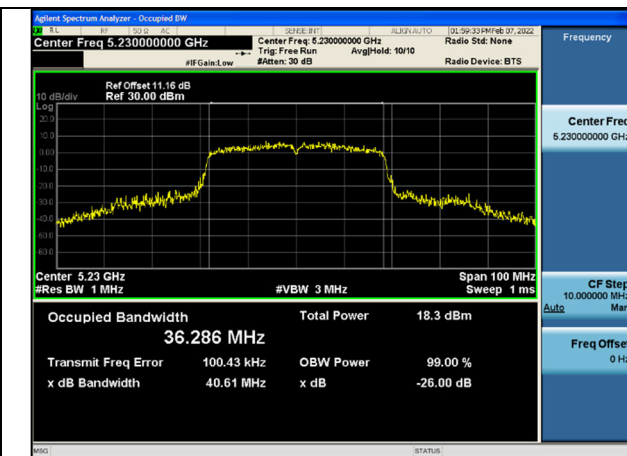


Test Mode:802.11ac VHT20 5240MHz Chain1

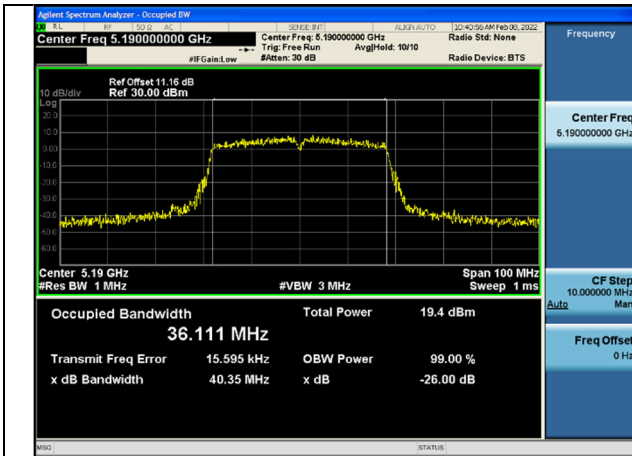
Test Mode: 802.11n HT40



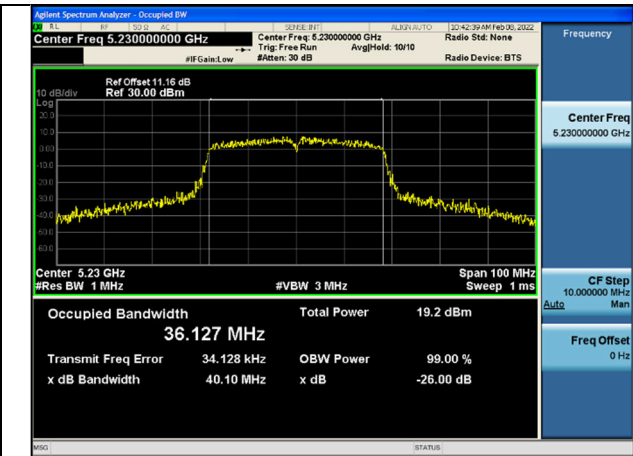
Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

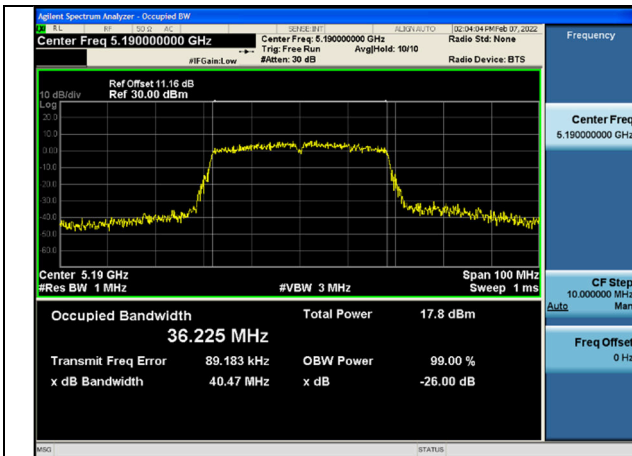


Test Mode:802.11n HT40 5190MHz Chain1

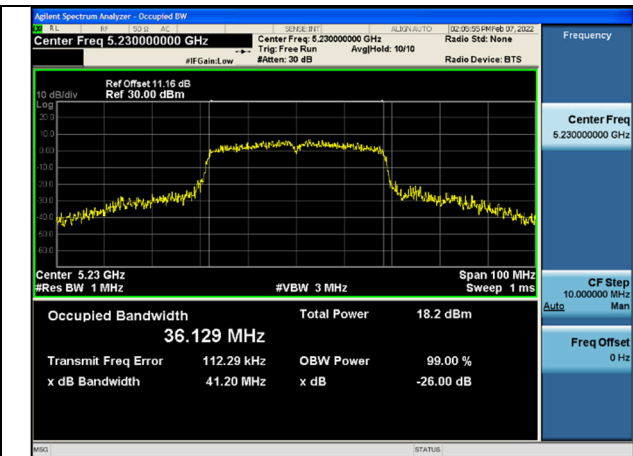


Test Mode:802.11n HT40 5230MHz Chain1

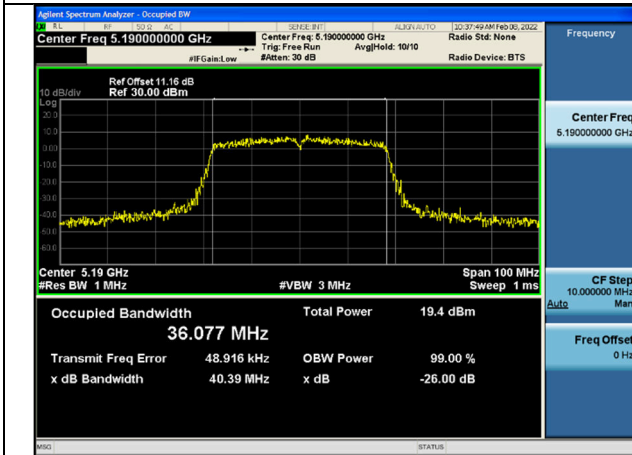
Test Mode: 802.11ac VHT40



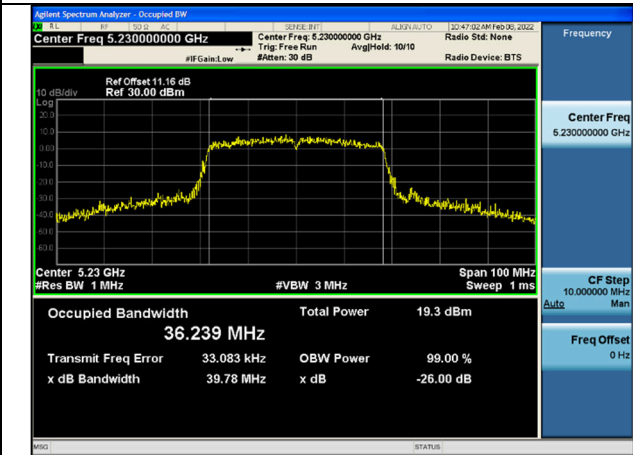
Test Mode:802.11ac VHT40 5190MHz Chain0



Test Mode:802.11ac VHT40 5230MHz Chain0

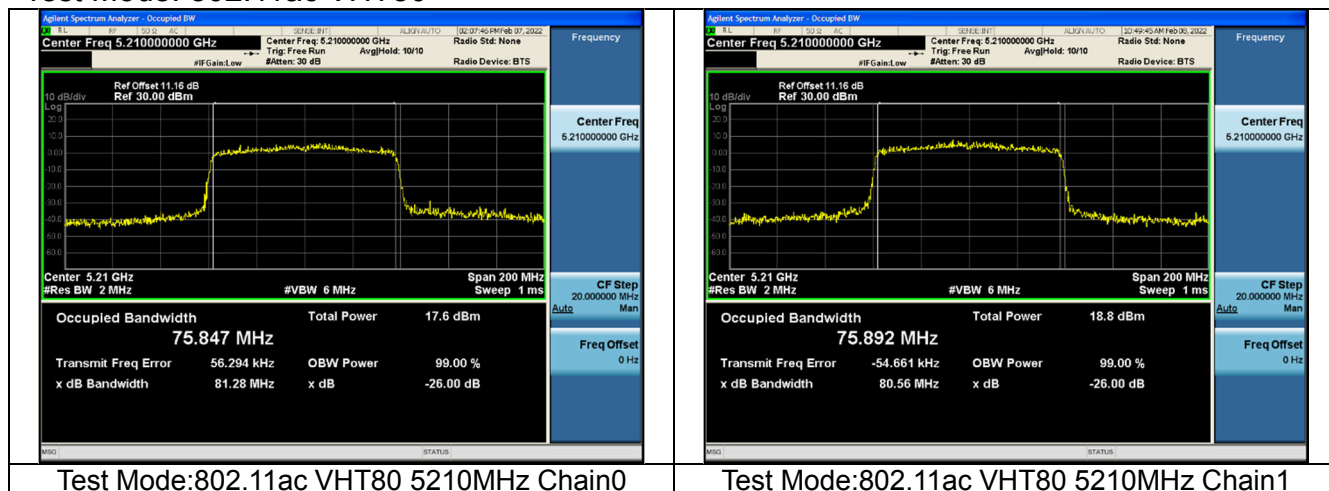


Test Mode:802.11ac VHT40 5190MHz Chain1



Test Mode:802.11ac VHT40 5230MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5210MHz Chain0

Test Mode:802.11ac VHT80 5210MHz Chain1

Occupied Bandwidth

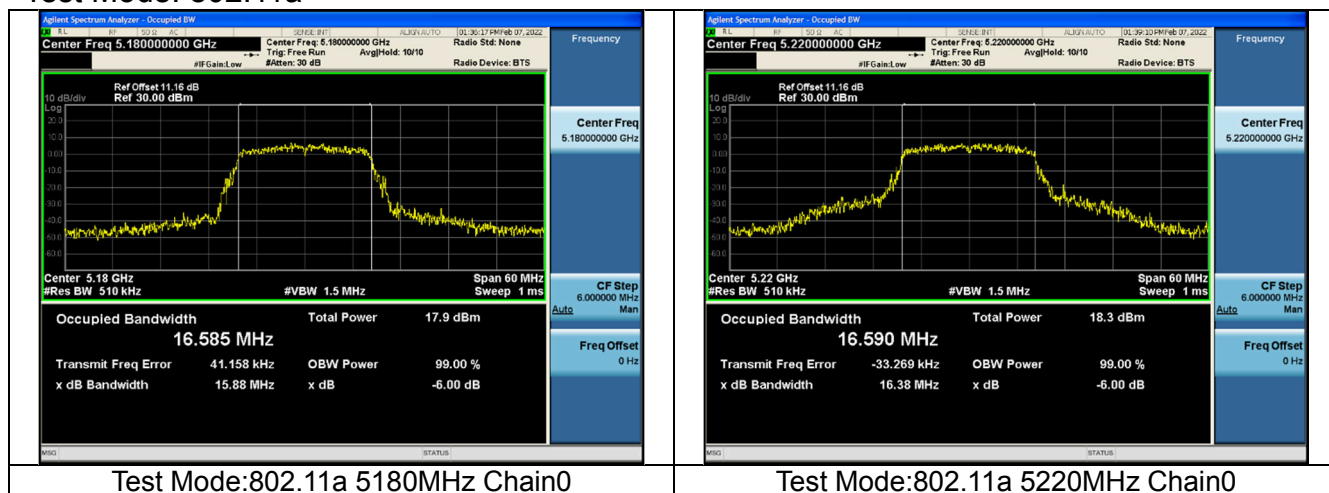
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2dB + Cable loss 0.96dB

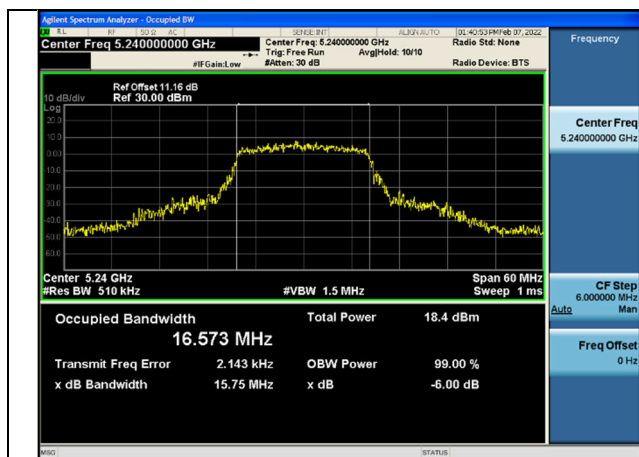
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.585	16.590	16.573
802.11a	Chain1	16.473	16.652	16.607
802.11n HT20	Chain0	17.694	17.728	17.762
802.11n HT20	Chain1	17.696	17.726	17.639
802.11ac VHT20	Chain0	17.731	17.758	17.886
802.11ac VHT20	Chain1	17.650	17.720	17.710

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.221	---	36.247
802.11n HT40	Chain1	35.991	---	36.198
802.11ac VHT40	Chain0	36.291	---	36.298
802.11ac VHT40	Chain1	36.174	---	36.175

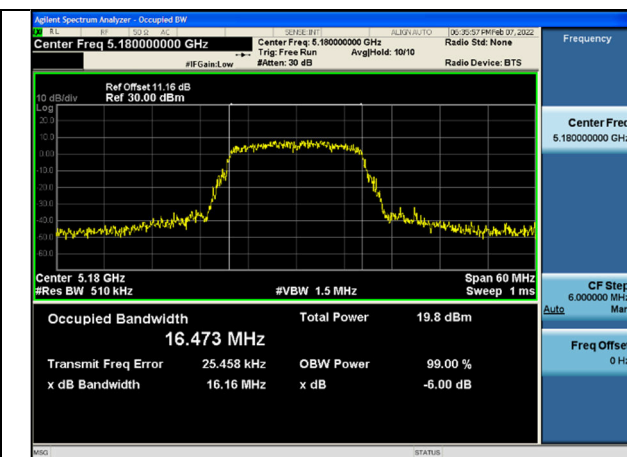
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.560	---	---
		5210MHz	---	---
802.11ac VHT80	Chain0	75.958	---	---
802.11ac VHT80	Chain1	75.717	---	---

Test Mode: 802.11a

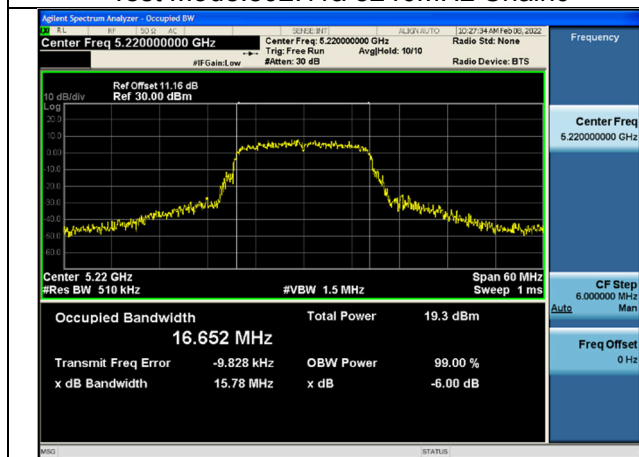




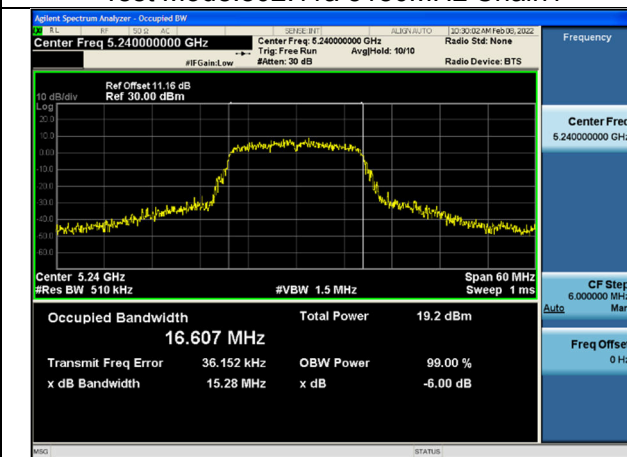
Test Mode:802.11a 5240MHz Chain0



Test Mode:802.11a 5180MHz Chain1

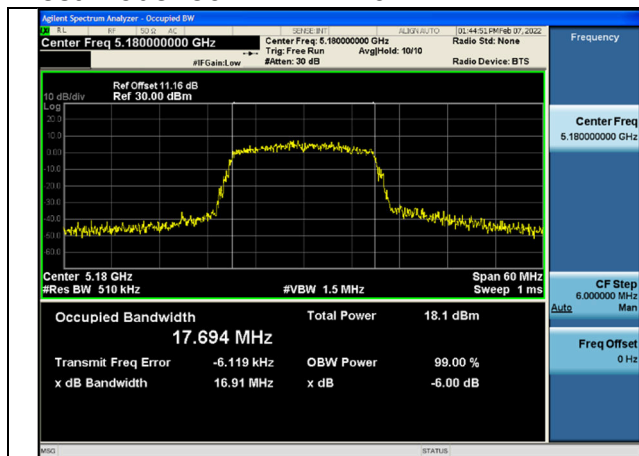


Test Mode:802.11a 5220MHz Chain1

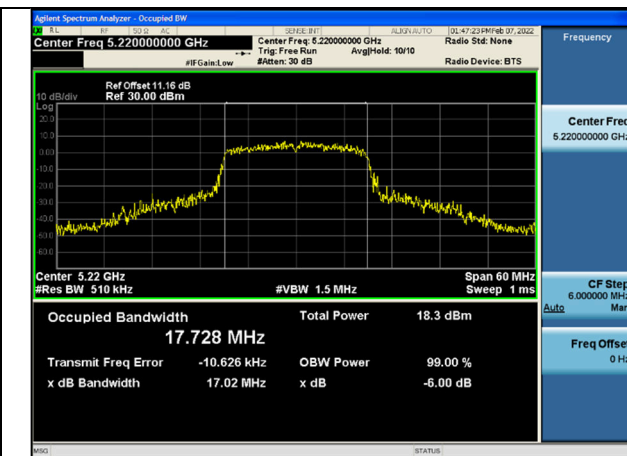


Test Mode:802.11a 5240MHz Chain1

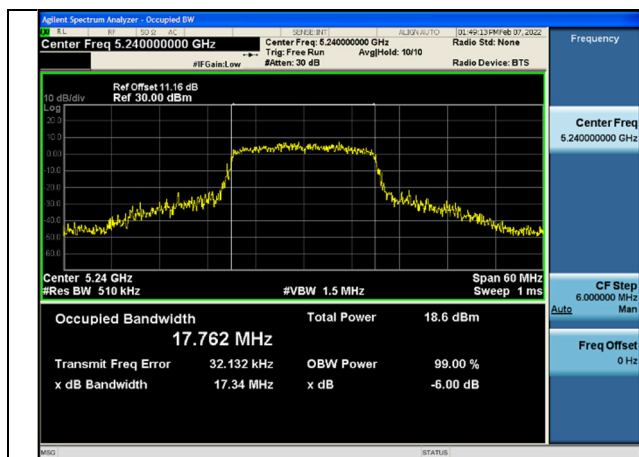
Test Mode: 802.11n HT20



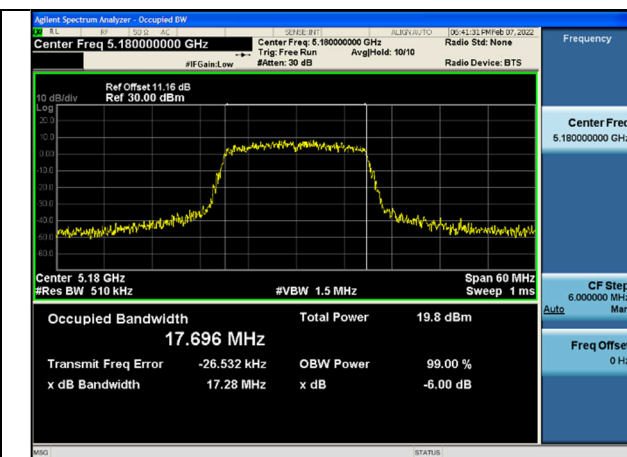
Test Mode:802.11n HT20 5180MHz Chain0



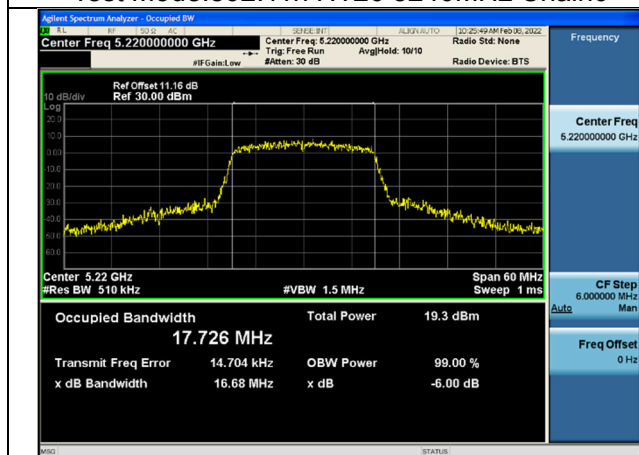
Test Mode:802.11n HT20 5220MHz Chain0



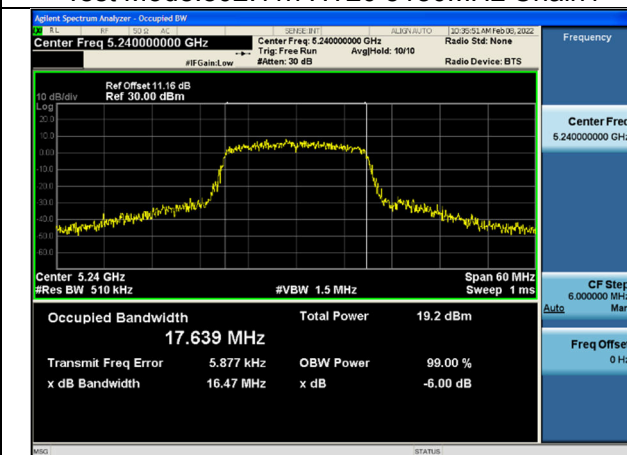
Test Mode:802.11n HT20 5240MHz Chain0



Test Mode:802.11n HT20 5180MHz Chain1

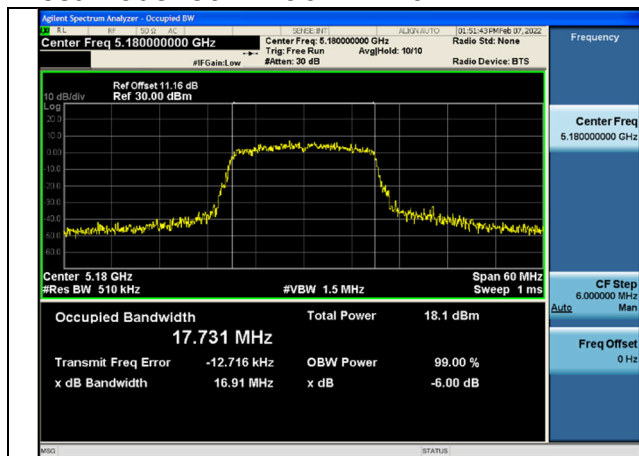


Test Mode:802.11n HT20 5220MHz Chain1

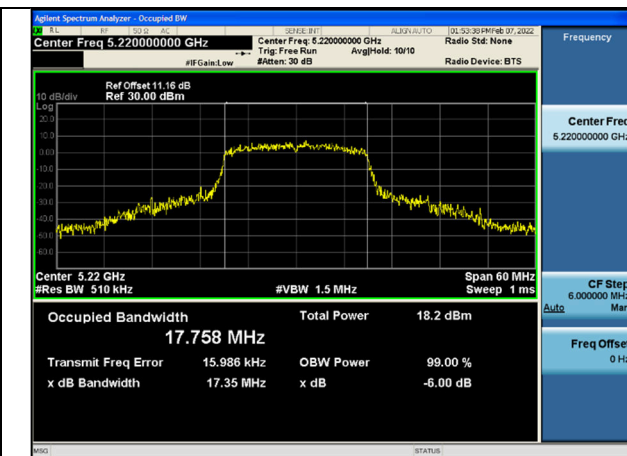


Test Mode:802.11n HT20 5240MHz Chain1

Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5180MHz Chain0



Test Mode:802.11ac VHT20 5220MHz Chain0