

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	99.88%	0	Fig.1
802.11n HT20	5180	99.24%	0	Fig.2
802.11ac VHT20	5180	99.20%	0	Fig.3
802.11n HT40	5190	99.00%	0	Fig.4
802.11ac VHT40	5190	99.22%	0	Fig.5
802.11ac VHT80	5210	99.61%	0	Fig.6

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

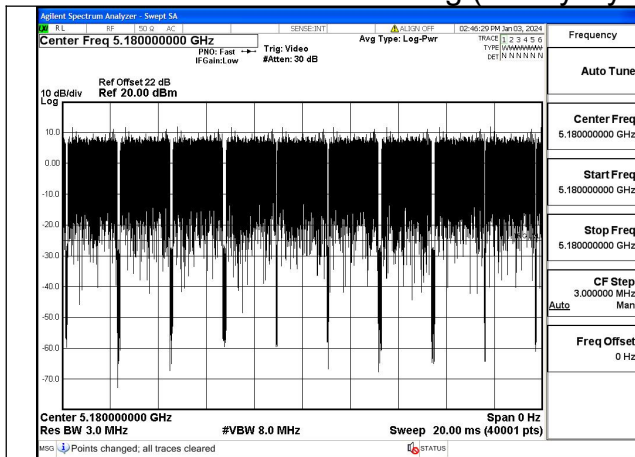


Fig.1

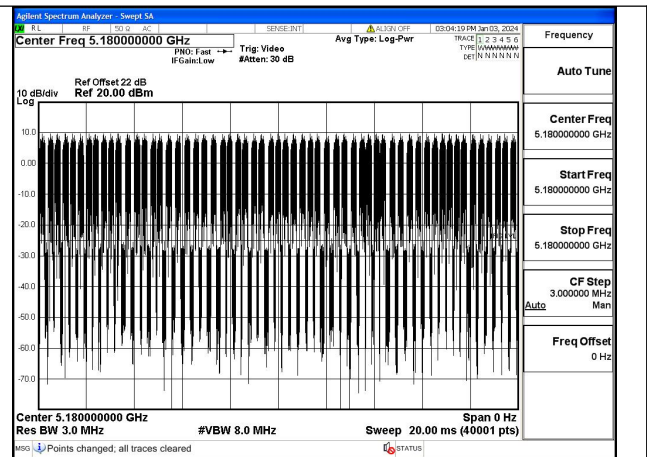


Fig.2

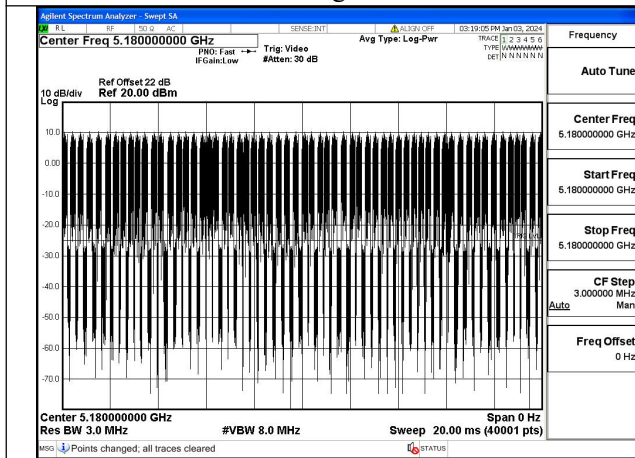


Fig.3

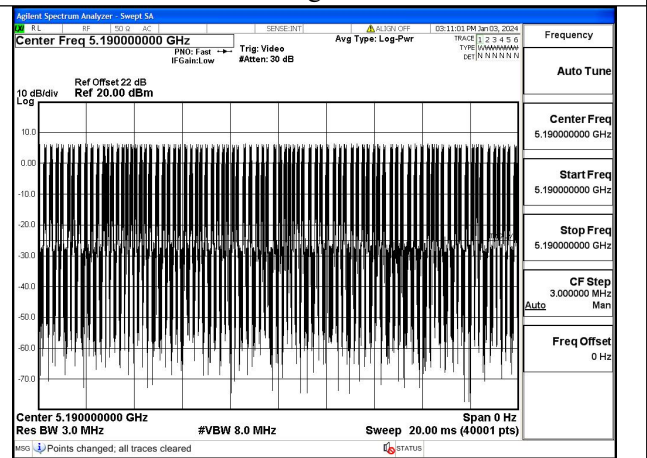


Fig.4

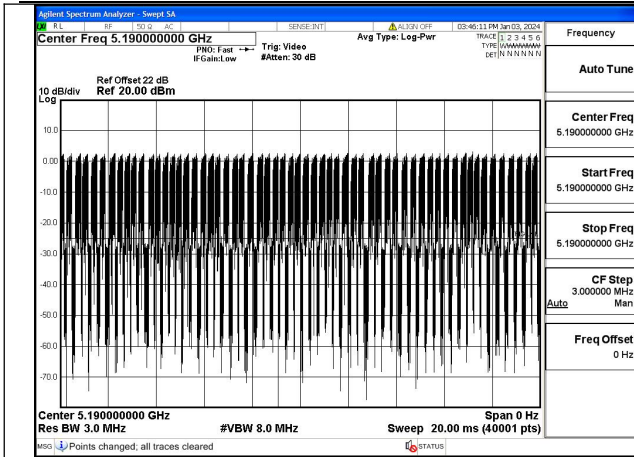


Fig.5

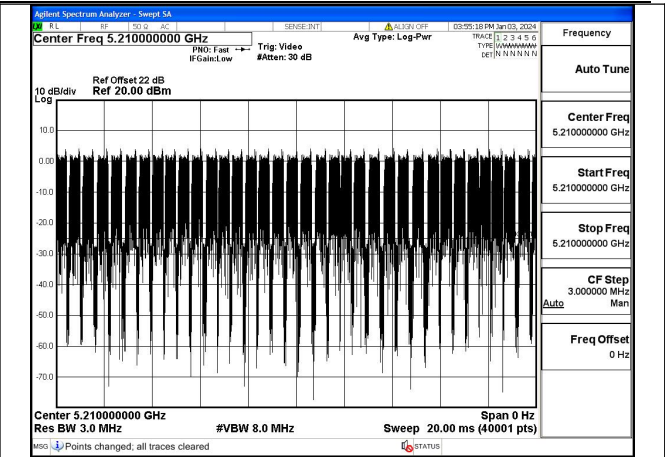


Fig.6

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	7.93	10.93
802.11a	NA	5220	Chain0	8.01	11.01
802.11a	NA	5240	Chain0	8.06	11.06
802.11n HT20	NA	5180	Chain0	6.99	9.99
802.11n HT20	NA	5220	Chain0	7.28	10.28
802.11n HT20	NA	5240	Chain0	7.46	10.46
802.11ac VHT20	NA	5180	Chain0	5.27	8.27
802.11ac VHT20	NA	5220	Chain0	7.63	10.63
802.11ac VHT20	NA	5240	Chain0	7.59	10.59
802.11n HT40	NA	5190	Chain0	6.62	9.62
802.11n HT40	NA	5230	Chain0	7.19	10.19
802.11ac VHT40	NA	5190	Chain0	7.25	10.25
802.11ac VHT40	NA	5230	Chain0	7.98	10.98
802.11ac VHT80	NA	5210	Chain0	7.67	10.67

Emission Bandwidth

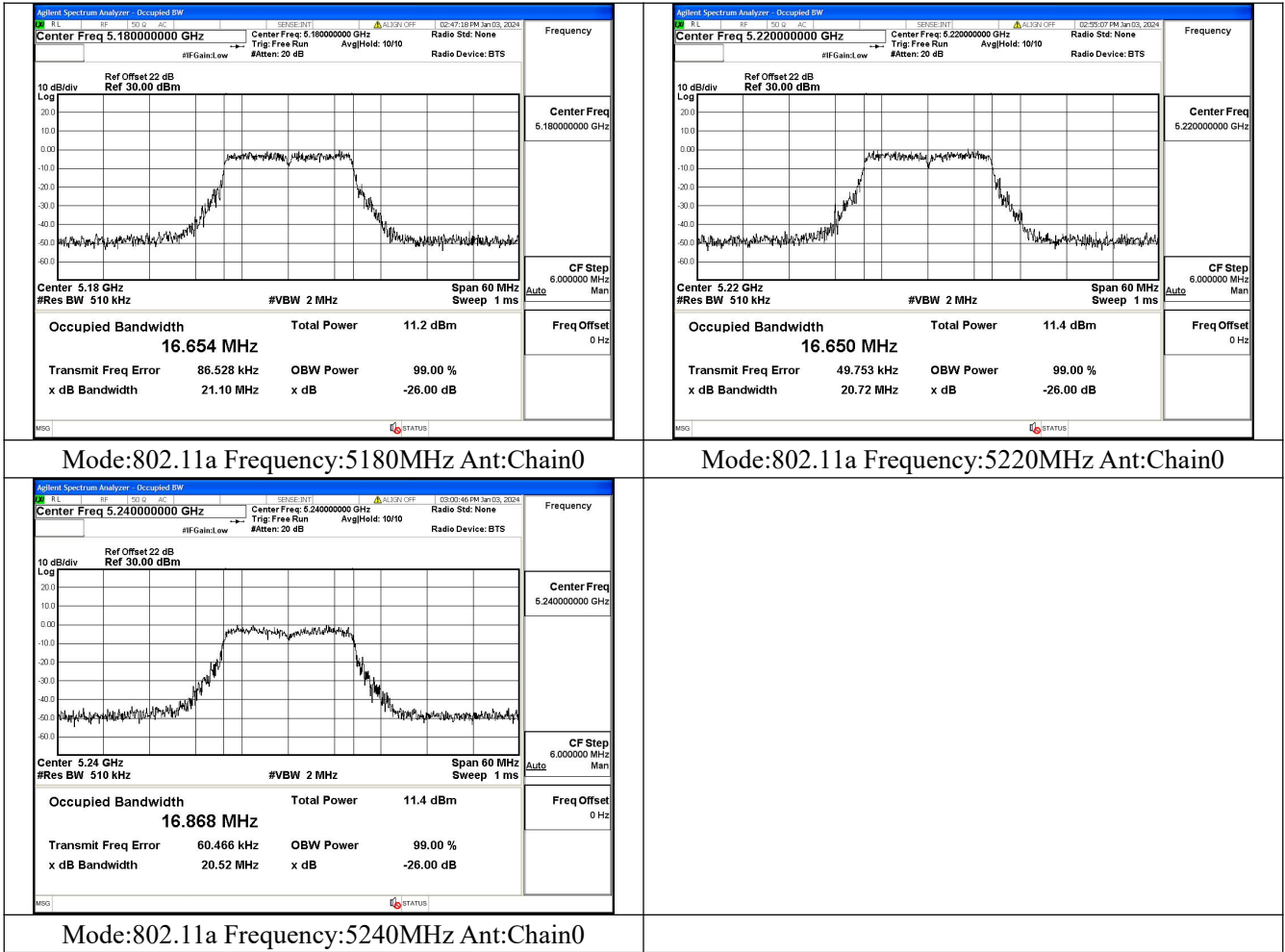
Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	21.10	20.72	20.52
802.11n HT20	Chain0	21.11	21.38	21.47
802.11ac VHT20	Chain0	19.98	19.98	20.75

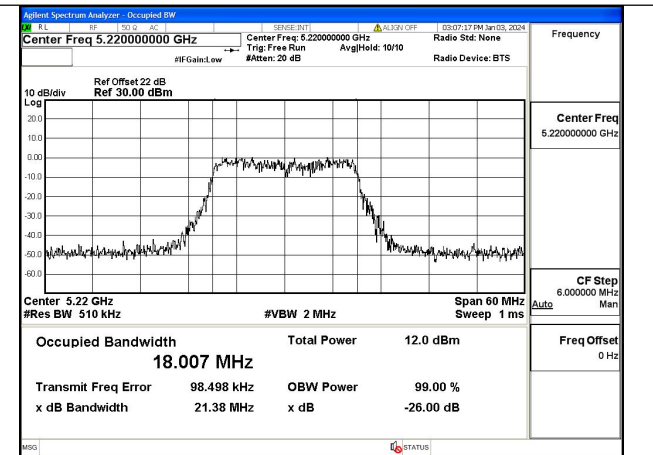
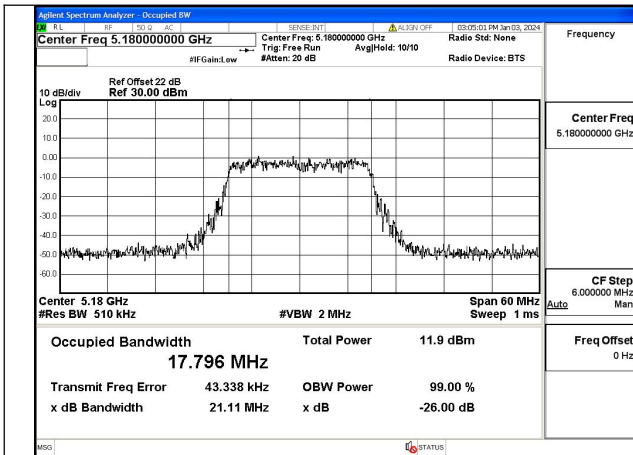
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	41.61	---	40.61
802.11ac VHT40	Chain0	42.19	---	41.44

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	81.38	---	---

Test Mode: 802.11a

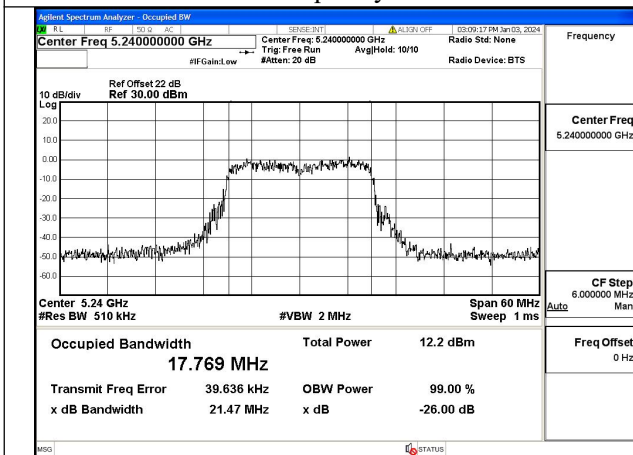


Test Mode: 802.11n HT20



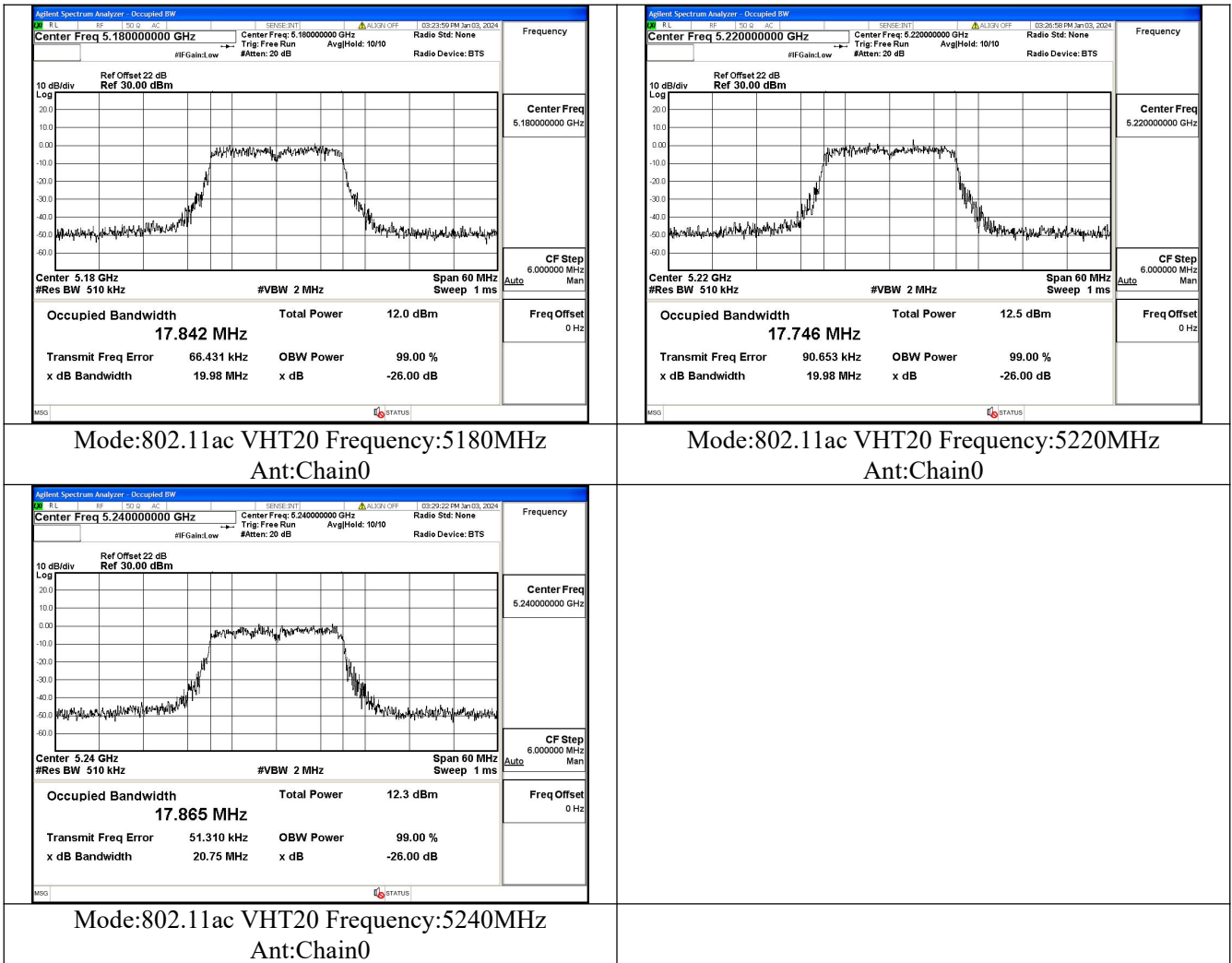
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0

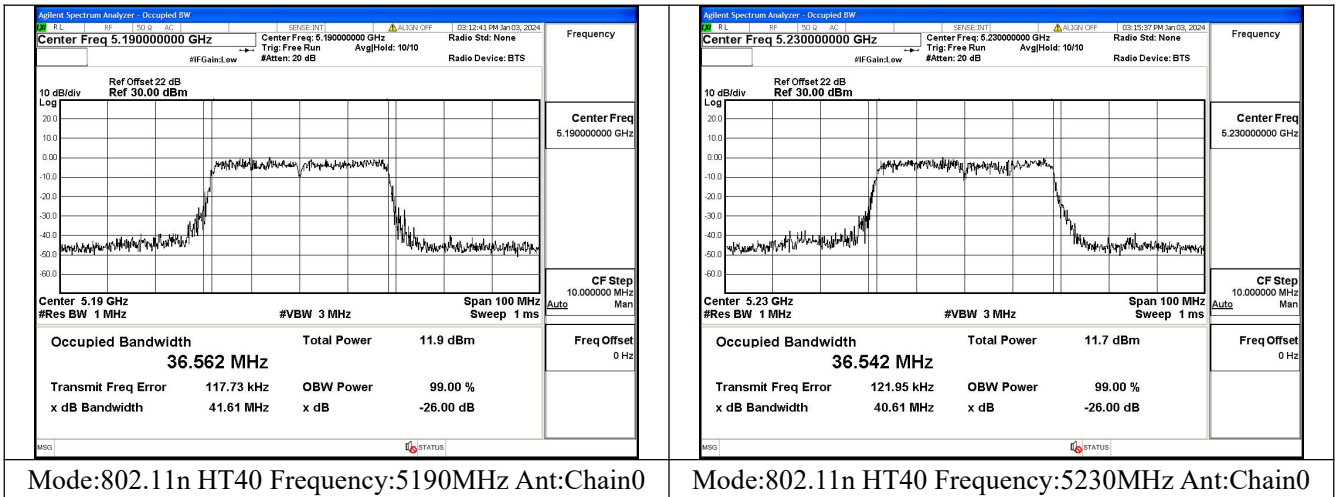


Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0

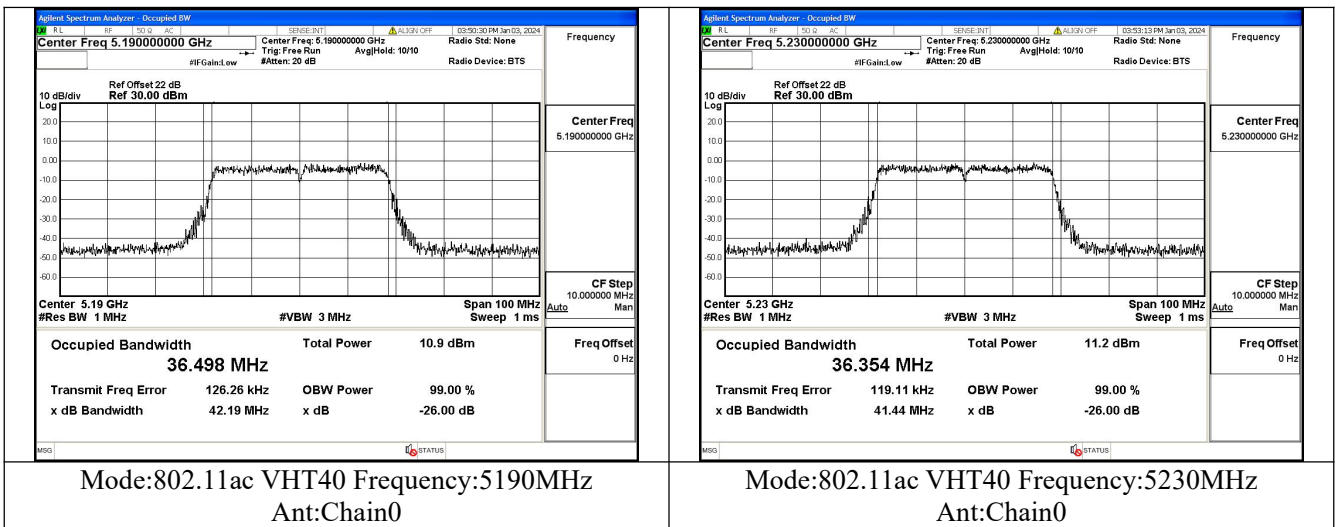
Test Mode: 802.11ac VHT20



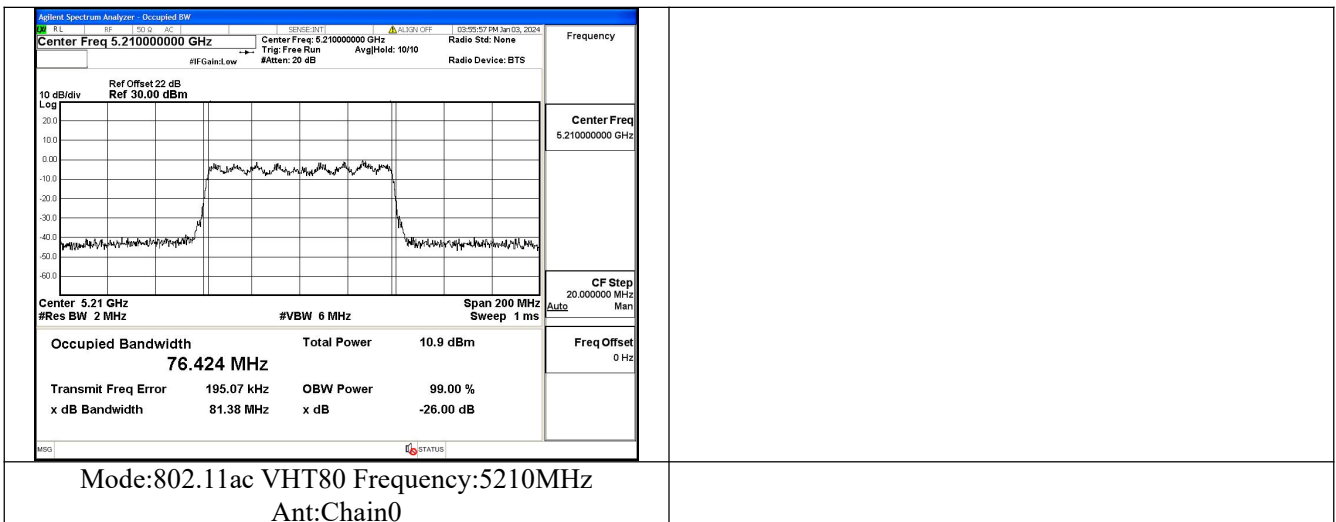
Test Mode: 802.11n HT40



Test Mode: 802.11ac VHT40



Test Mode: 802.11ac VHT80



Occupied Bandwidth

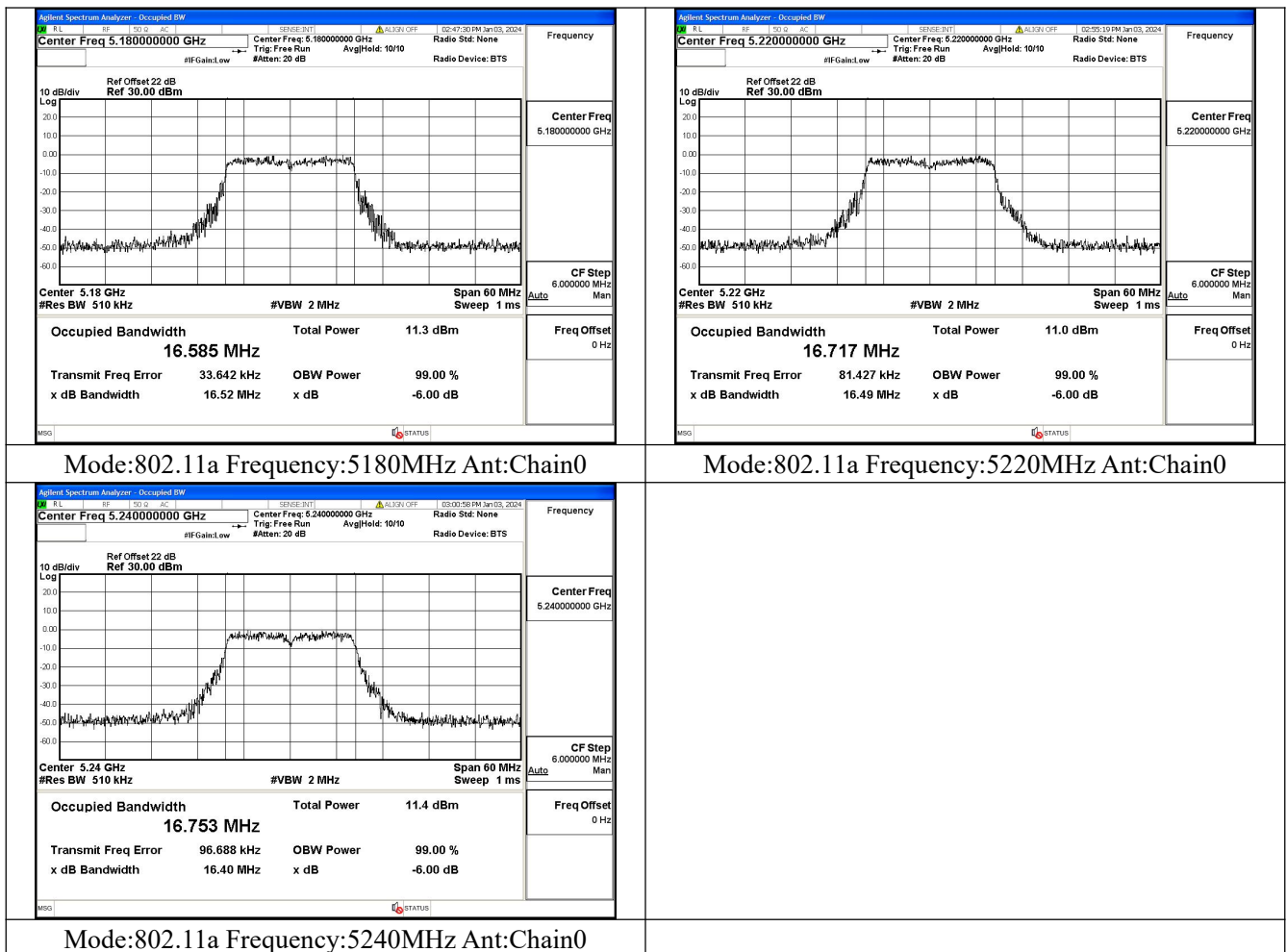
Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.585	16.717	16.753
802.11n HT20	Chain0	17.883	17.583	17.847
802.11ac VHT20	Chain0	17.844	17.635	17.908

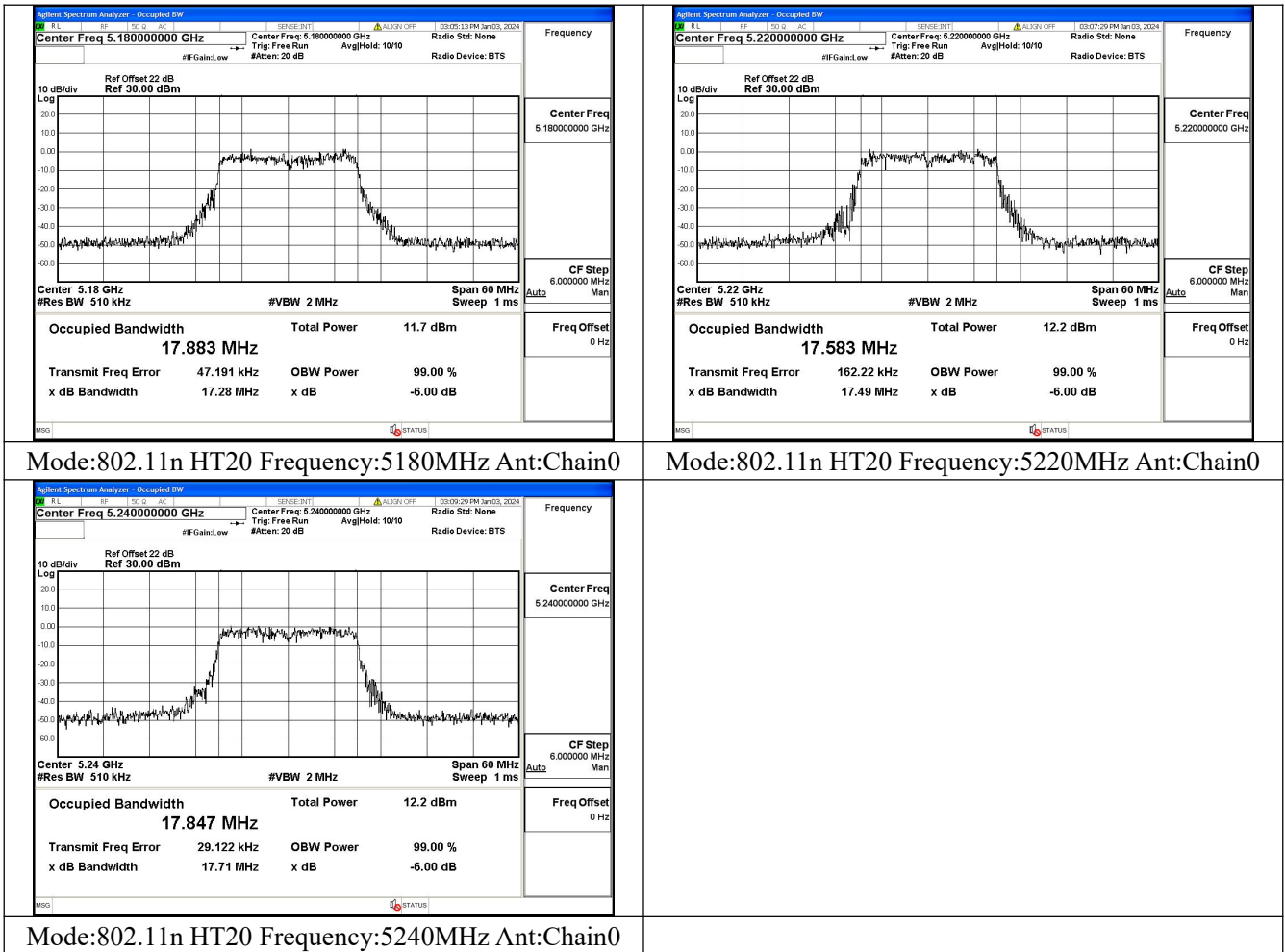
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.295	---	36.497
802.11ac VHT40	Chain0	36.514	---	36.435

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	76.243	---	---

Test Mode: 802.11a



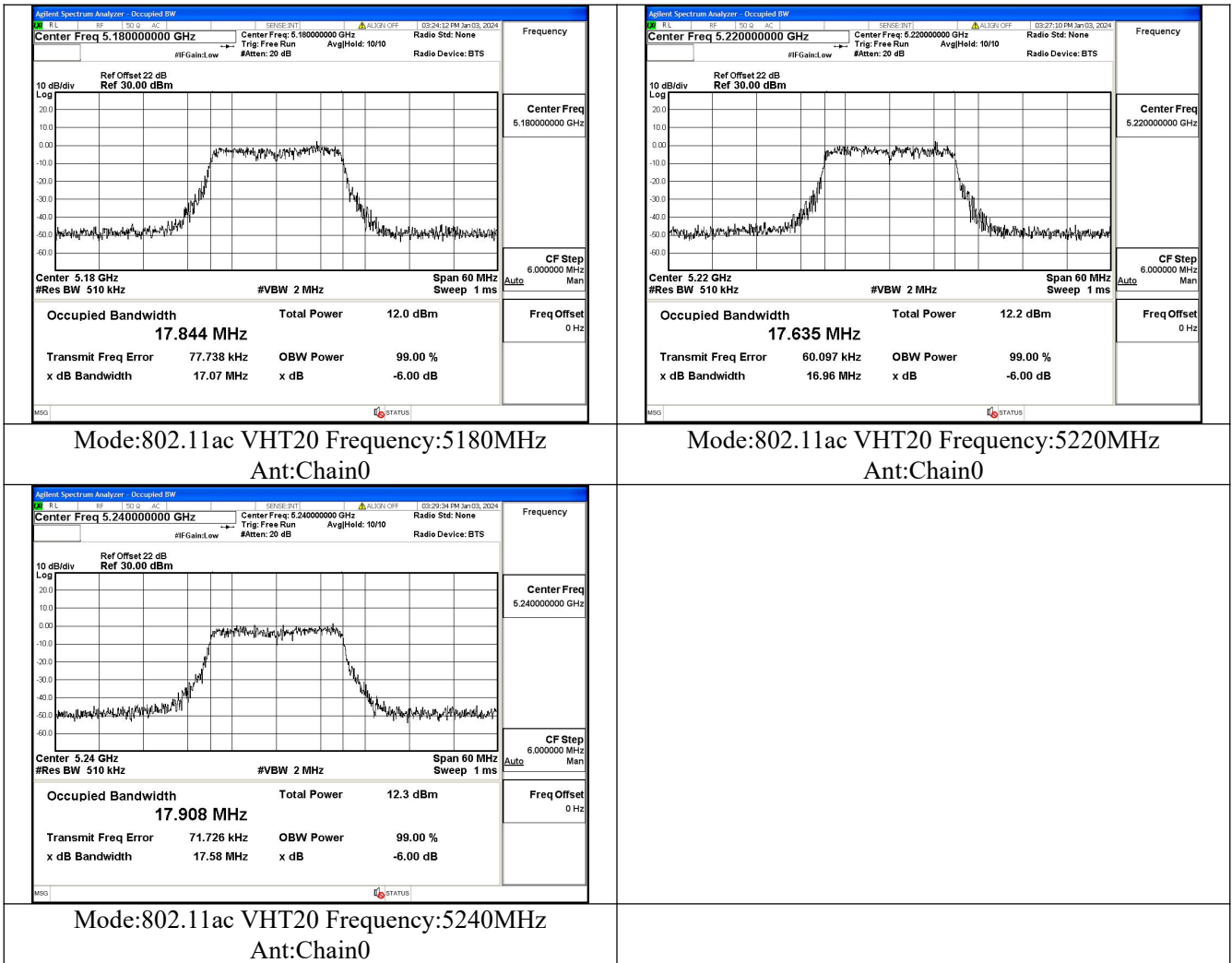
Test Mode: 802.11n HT20



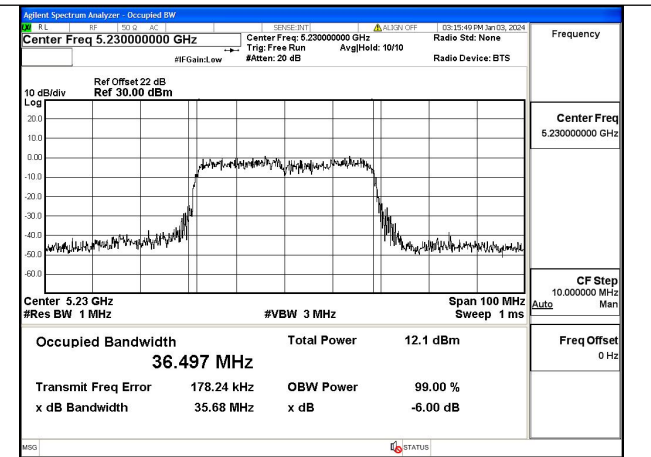
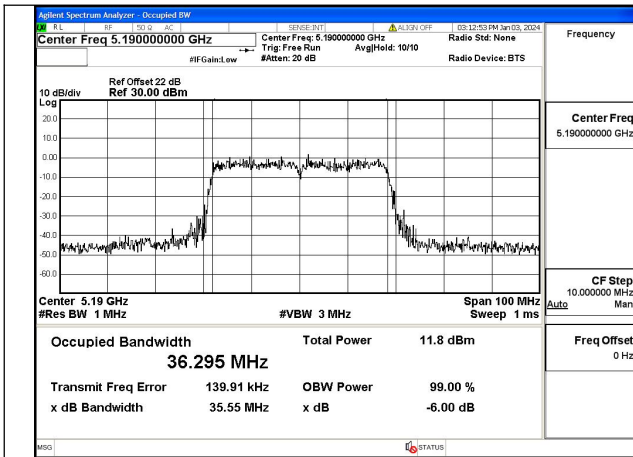
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0

Test Mode: 802.11ac VHT20



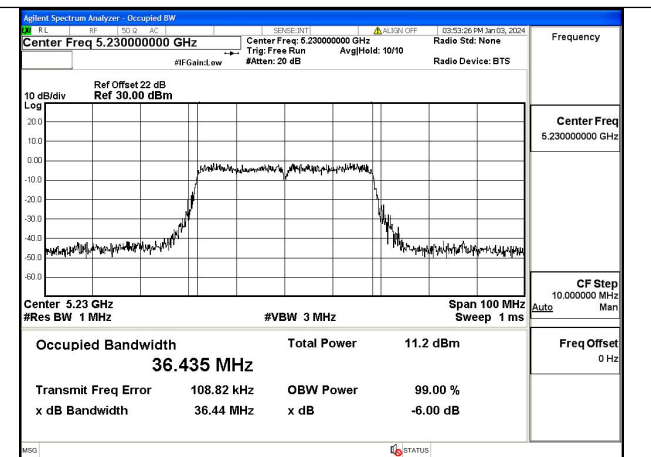
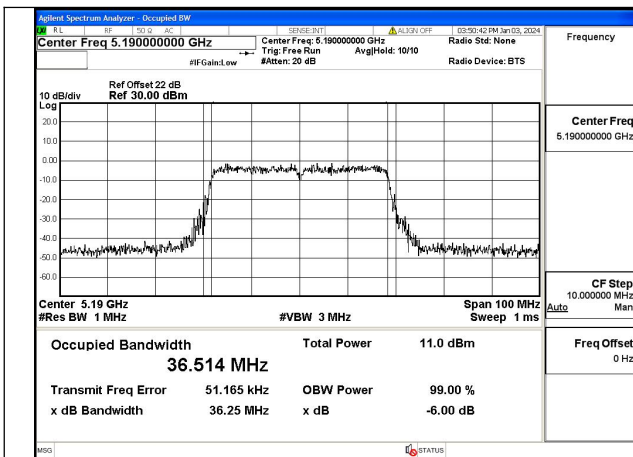
Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0

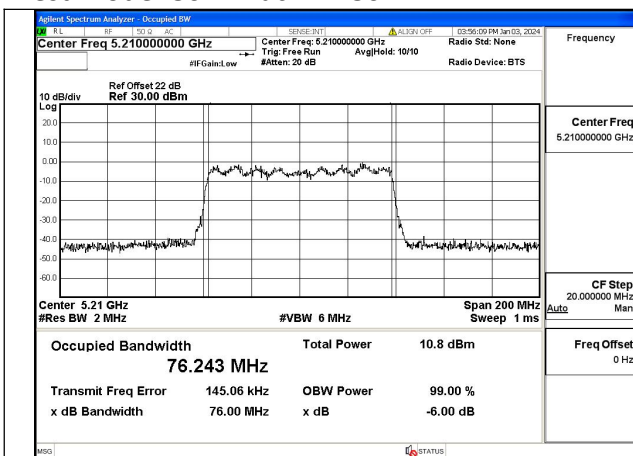
Test Mode: 802.11ac VHT40



Mode:802.11ac VHT40 Frequency:5190MHz
Ant:Chain0

Mode:802.11ac VHT40 Frequency:5230MHz
Ant:Chain0

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5210MHz
Ant:Chain0

Transmitter Power Spectral Density

Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Tones	5180MHz		5220MHz		5240MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	NA	0	-3.431	0	-3.273	0	-3.283
802.11n HT20	Chain0	NA	0	-3.990	0	-3.669	0	-3.487
802.11ac VHT20	Chain0	NA	0	-3.456	0	-3.359	0	-3.619

Test Mode	Antenna	Tones	5190MHz		---		5230MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	NA	0	-7.202	---	---	0	-6.661
802.11ac VHT40	Chain0	NA	0	-6.621	---	---	0	-6.309

Test Mode	Antenna	Tones	5210MHz		---		---	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	NA	0	-8.155	---	---	---	---

Test Mode: 802.11a

