

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Antenna	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	Chain0	5260	99.99%	0	Fig.1
802.11a	Chain1	5260	99.96%	0	Fig.2
802.11n HT20	Chain0	5260	99.98%	0	Fig.3
802.11n HT20	Chain1	5260	99.97%	0	Fig.4
802.11ac VHT20	Chain0	5260	99.97%	0	Fig.5
802.11ac VHT20	Chain1	5260	99.97%	0	Fig.6
802.11n HT40	Chain0	5270	99.93%	0	Fig.7
802.11n HT40	Chain1	5270	99.92%	0	Fig.8
802.11ac VHT40	Chain0	5270	99.94%	0	Fig.9
802.11ac VHT40	Chain1	5270	99.94%	0	Fig.10
802.11ac VHT80	Chain0	5290	99.93%	0	Fig.11
802.11ac VHT80	Chain1	5290	99.90%	0	Fig.12

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

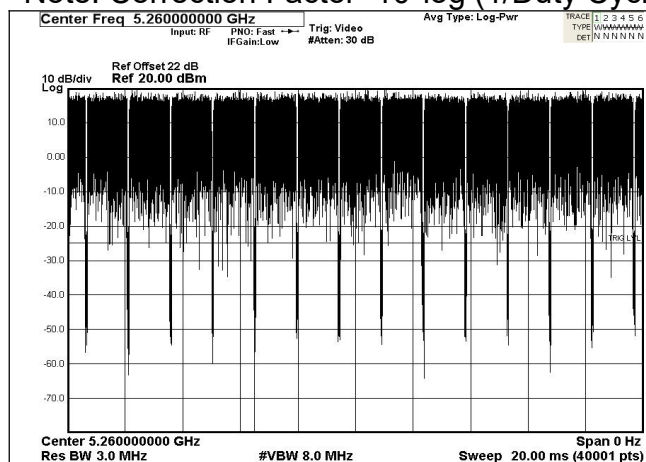


Fig.1

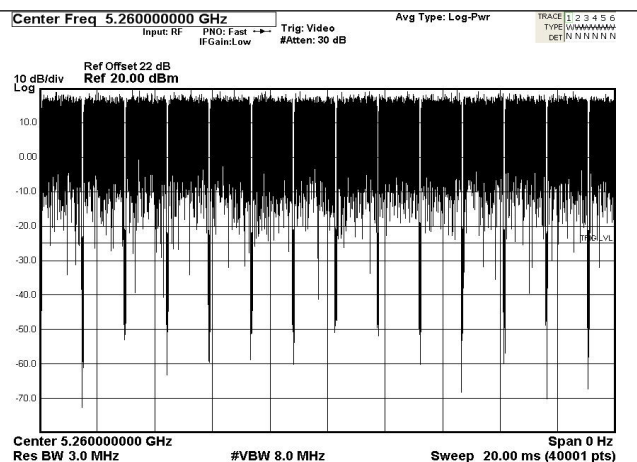


Fig.2

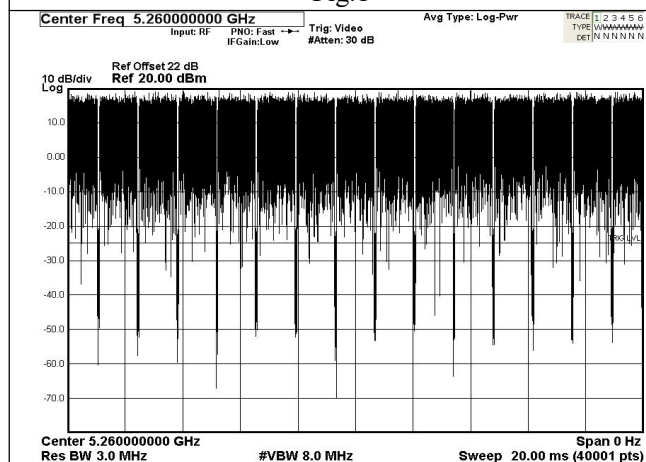


Fig.3

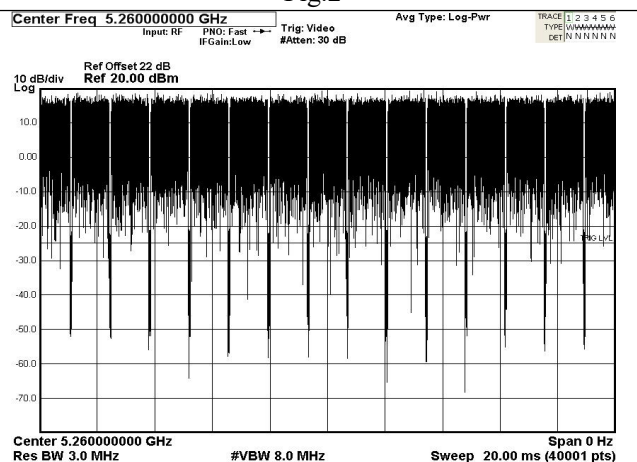


Fig.4

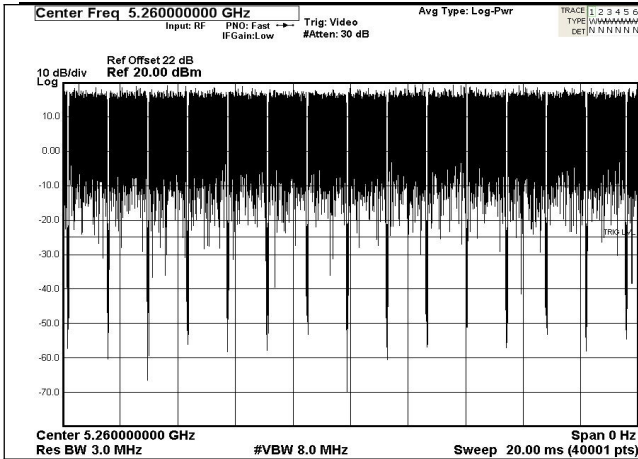


Fig.5

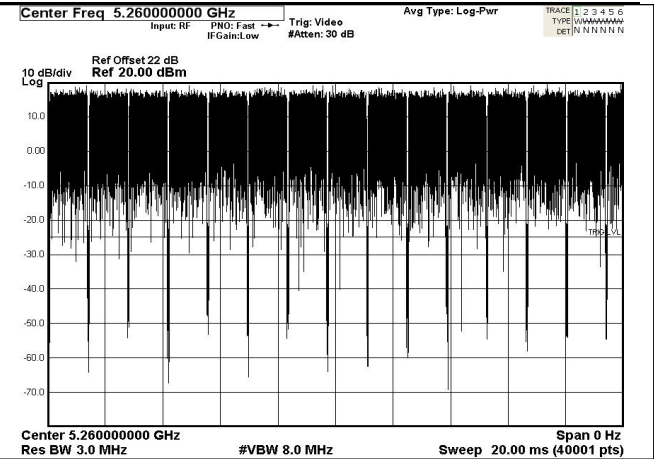


Fig.6

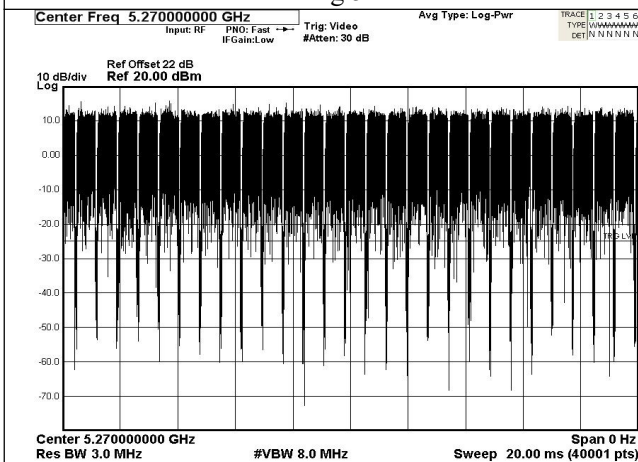


Fig.7

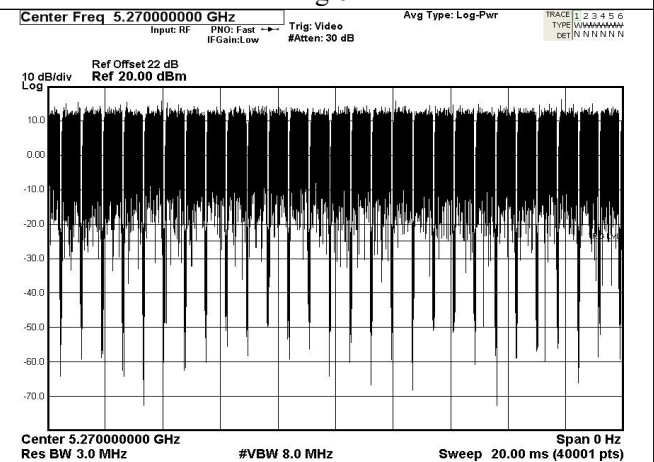


Fig.8

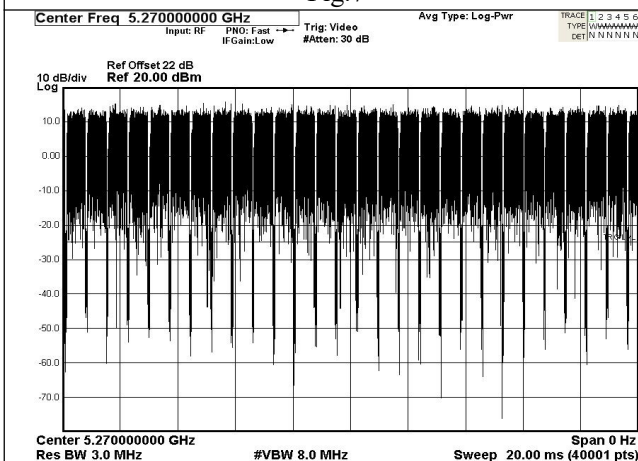


Fig.9

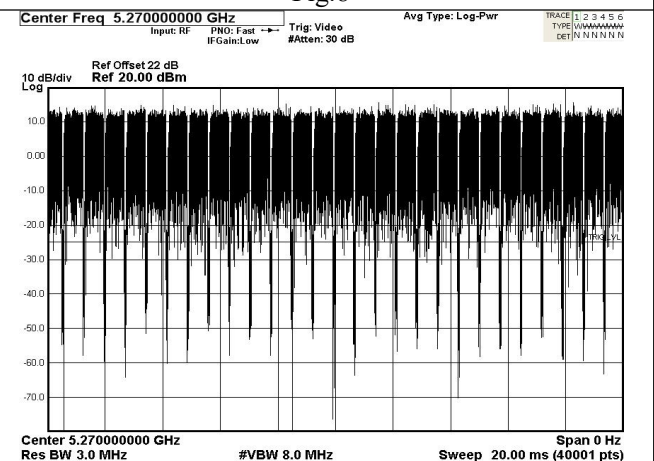
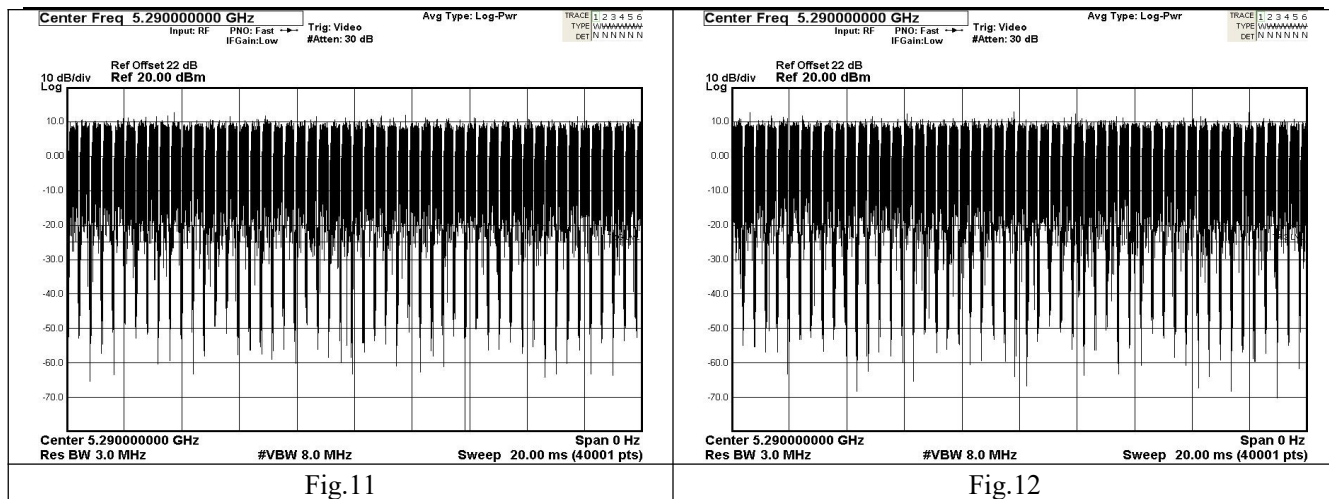


Fig.10



Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	16.41	16.91
802.11a	NA	5260	Chain1	16.12	16.57
802.11a	NA	5280	Chain0	16.42	16.92
802.11a	NA	5280	Chain1	16.14	16.59
802.11a	NA	5320	Chain0	16.32	16.82
802.11a	NA	5320	Chain1	16.13	16.58
802.11n HT20	NA	5260	Chain0	16.35	16.85
802.11n HT20	NA	5260	Chain1	16.02	16.47
802.11n HT20	NA	5260	MIMO	19.20	19.68
802.11n HT20	NA	5280	Chain0	16.09	16.59
802.11n HT20	NA	5280	Chain1	15.99	16.44
802.11n HT20	NA	5280	MIMO	19.05	19.53
802.11n HT20	NA	5320	Chain0	16.32	16.82
802.11n HT20	NA	5320	Chain1	16.06	16.51
802.11n HT20	NA	5320	MIMO	19.20	19.68
802.11ac VHT20	NA	5260	Chain0	15.72	16.22
802.11ac VHT20	NA	5260	Chain1	15.97	16.42
802.11ac VHT20	NA	5260	MIMO	18.86	19.34
802.11ac VHT20	NA	5280	Chain0	15.64	16.14
802.11ac VHT20	NA	5280	Chain1	16.02	16.47
802.11ac VHT20	NA	5280	MIMO	18.84	19.32
802.11ac VHT20	NA	5320	Chain0	15.52	16.02
802.11ac VHT20	NA	5320	Chain1	16.09	16.54
802.11ac VHT20	NA	5320	MIMO	18.82	19.30
802.11n HT40	NA	5270	Chain0	15.09	15.59
802.11n HT40	NA	5270	Chain1	15.13	15.58
802.11n HT40	NA	5270	MIMO	18.12	18.60
802.11n HT40	NA	5310	Chain0	14.92	15.42
802.11n HT40	NA	5310	Chain1	15.16	15.61
802.11n HT40	NA	5310	MIMO	18.05	18.53
802.11ac VHT40	NA	5270	Chain0	15.07	15.57
802.11ac VHT40	NA	5270	Chain1	14.85	15.30
802.11ac VHT40	NA	5270	MIMO	17.97	18.45
802.11ac VHT40	NA	5310	Chain0	15.12	15.62
802.11ac VHT40	NA	5310	Chain1	15.12	15.57
802.11ac VHT40	NA	5310	MIMO	18.13	18.61
802.11ac VHT80	NA	5290	Chain0	13.99	14.49
802.11ac VHT80	NA	5290	Chain1	14.37	14.82
802.11ac VHT80	NA	5290	MIMO	17.19	17.67

Emission Bandwidth

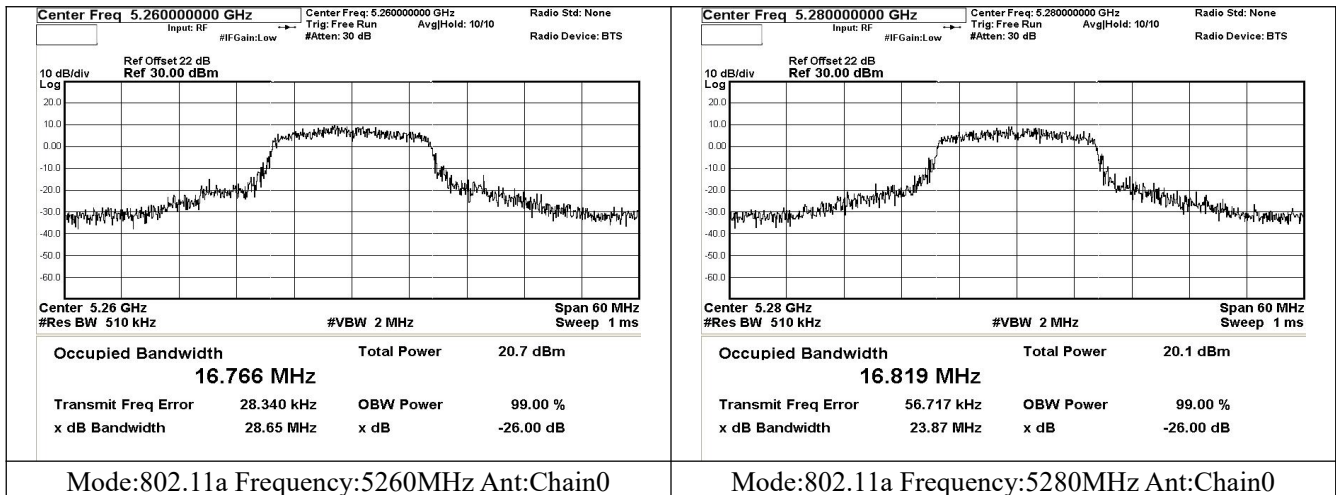
Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

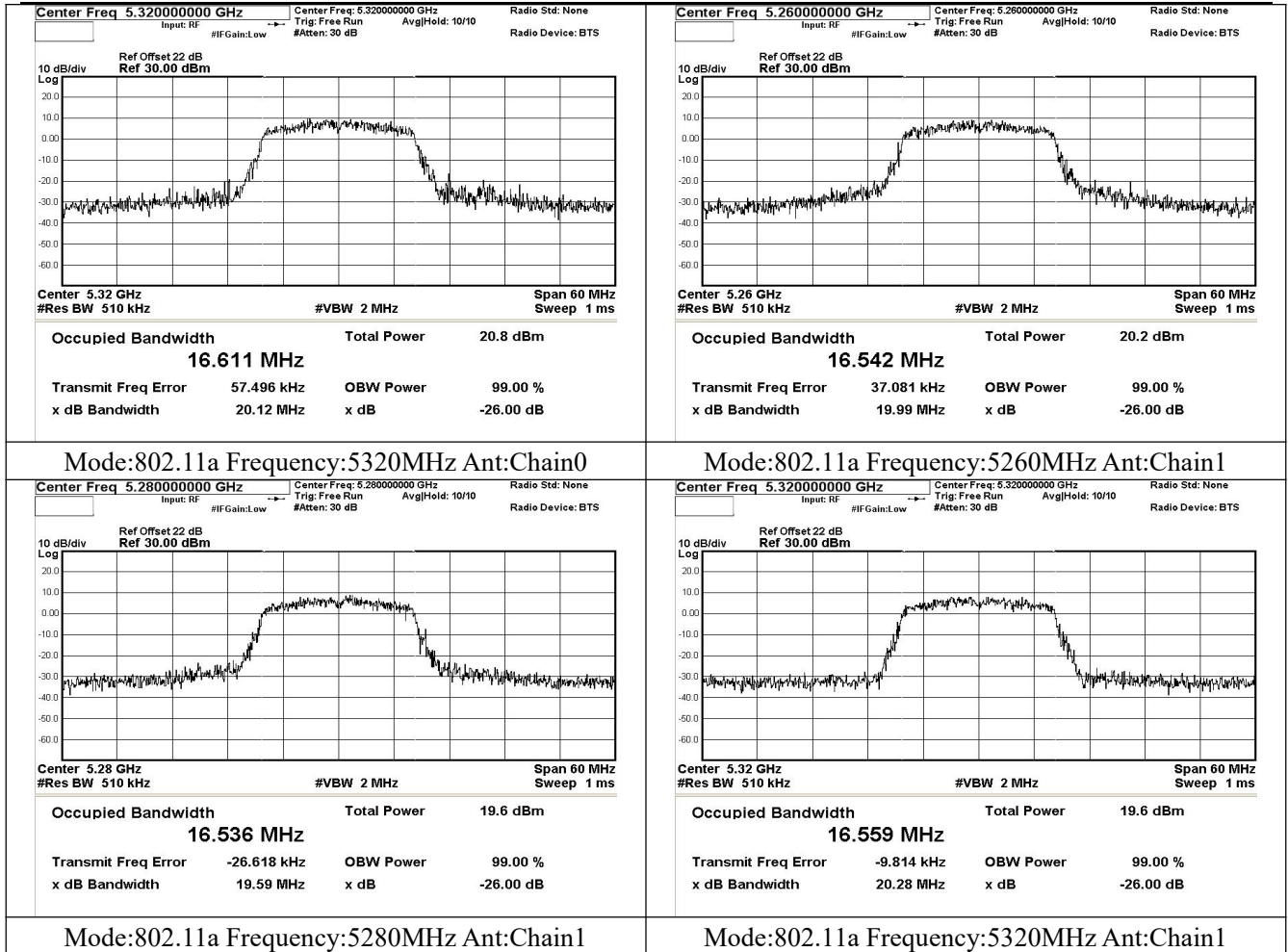
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	28.65	23.87	20.12
802.11a	Chain1	19.99	19.59	20.28
802.11n HT20	Chain0	26.67	26.15	20.12
802.11n HT20	Chain1	20.38	20.72	20.34
802.11ac VHT20	Chain0	24.28	24.85	27.72
802.11ac VHT20	Chain1	20.34	20.46	20.47

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	43.45	---	39.99
802.11n HT40	Chain1	40.46	---	40.35
802.11ac VHT40	Chain0	48.12	---	40.85
802.11ac VHT40	Chain1	40.42	---	39.78

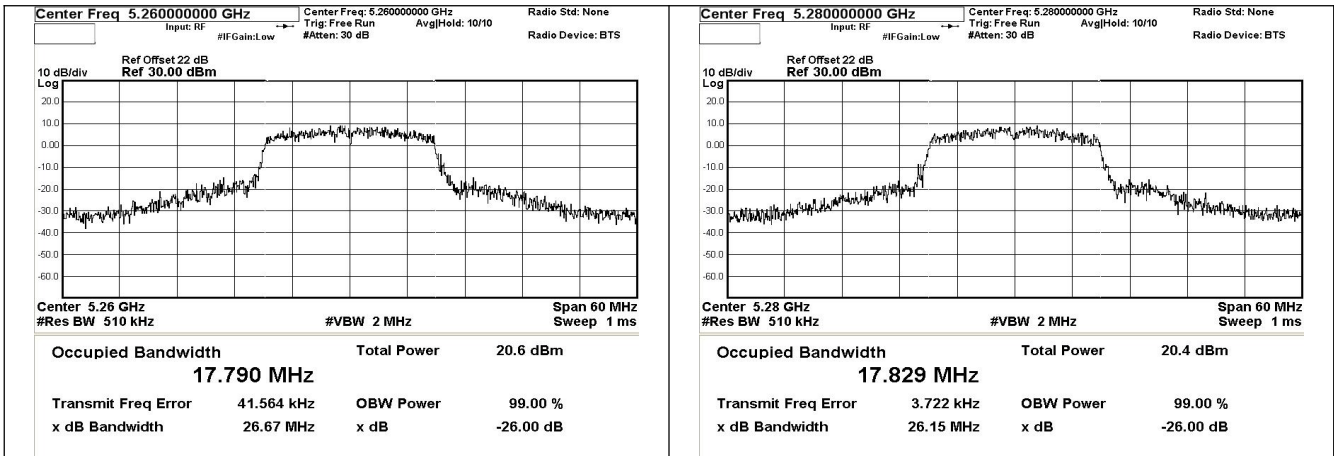
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	81.03	---	---
802.11ac VHT80	Chain1	81.41	---	---

Test Mode: 802.11a

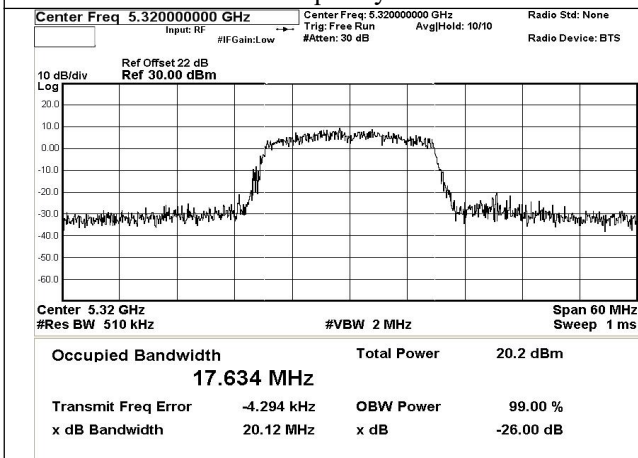




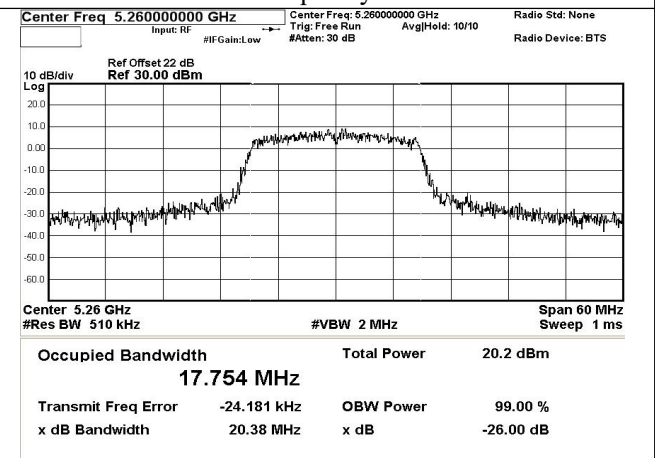
Test Mode: 802.11n HT20



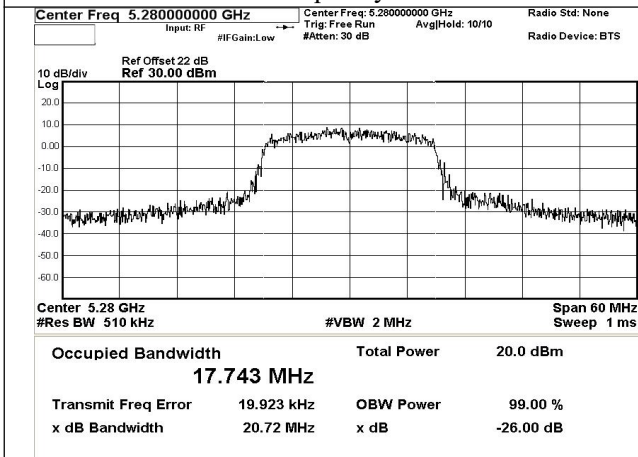
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0



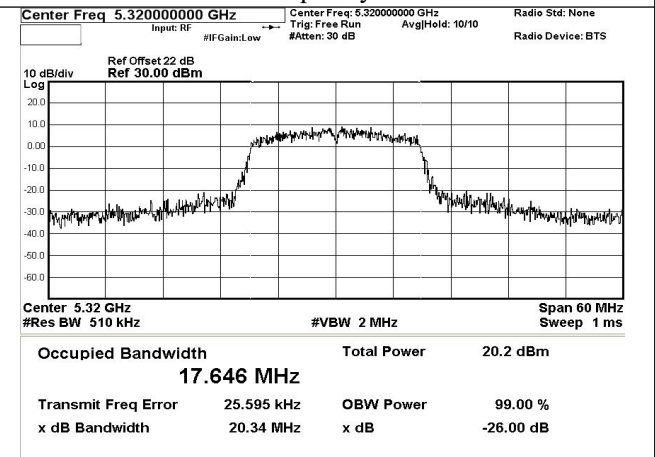
Mode:802.11n HT20 Frequency:5280MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5320MHz Ant:Chain0



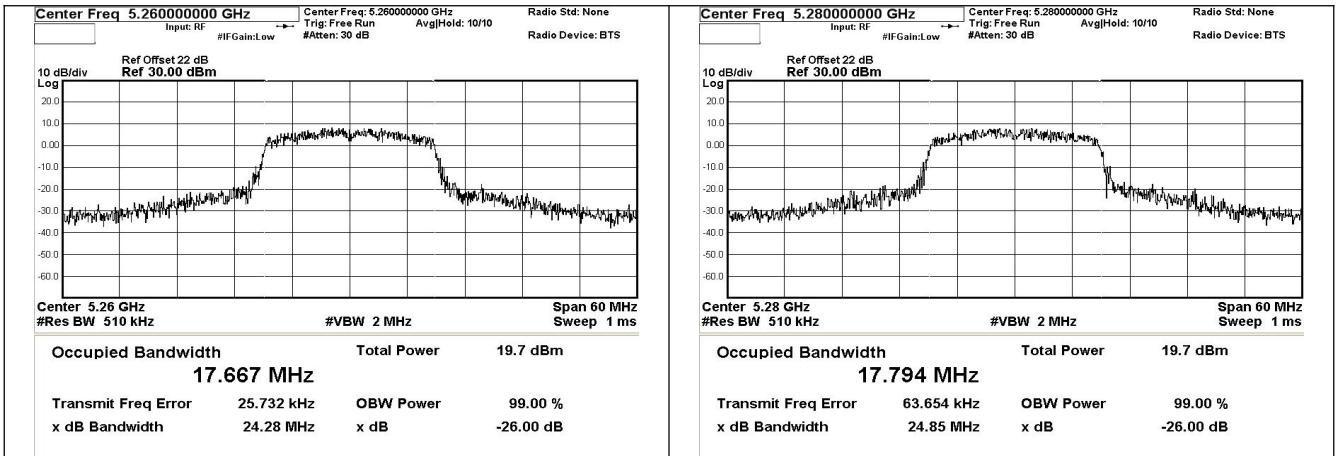
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5280MHz Ant:Chain1

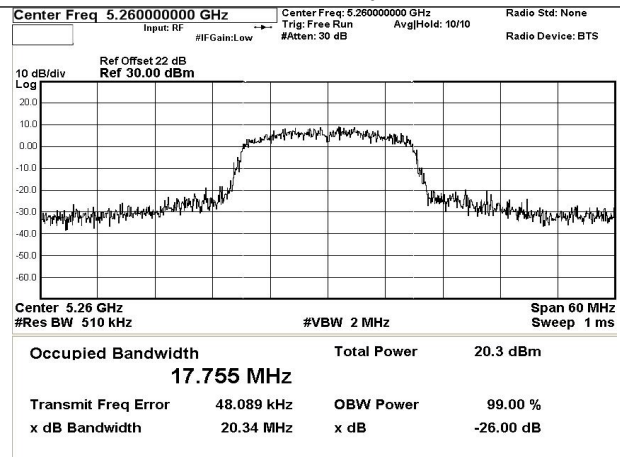
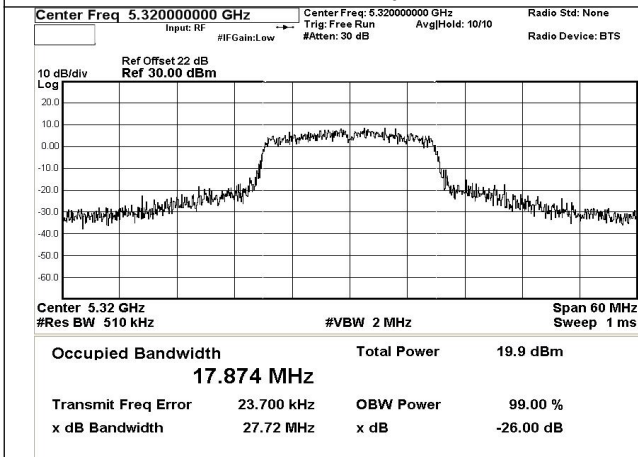
Mode:802.11n HT20 Frequency:5320MHz Ant:Chain1

Test Mode: 802.11ac VHT20



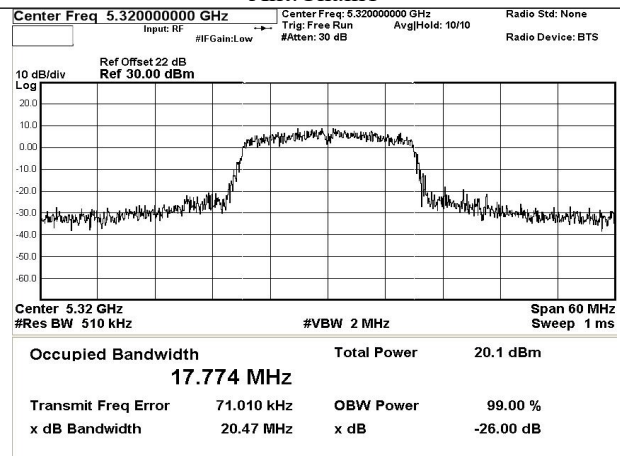
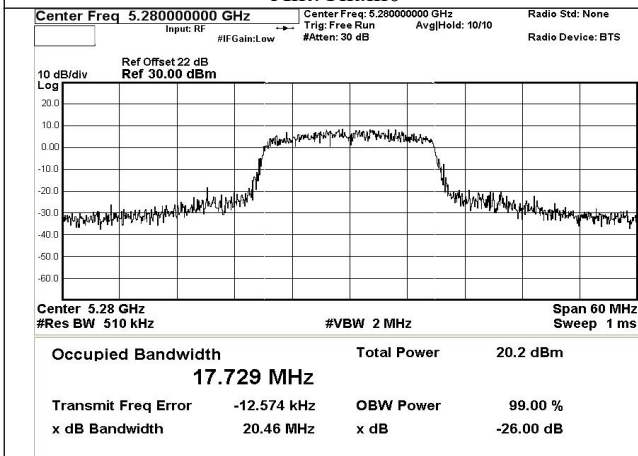
Mode:802.11ac VHT20 Frequency:5260MHz
Ant:Chain0

Mode:802.11ac VHT20 Frequency:5280MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5320MHz
Ant:Chain0

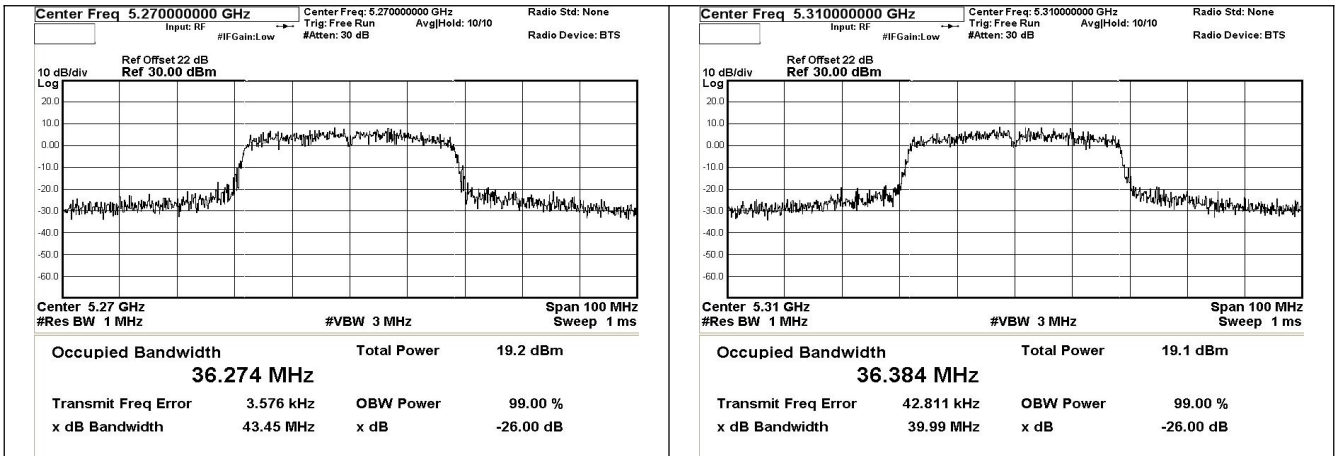
Mode:802.11ac VHT20 Frequency:5260MHz
Ant:Chain1



Mode:802.11ac VHT20 Frequency:5280MHz
Ant:Chain1

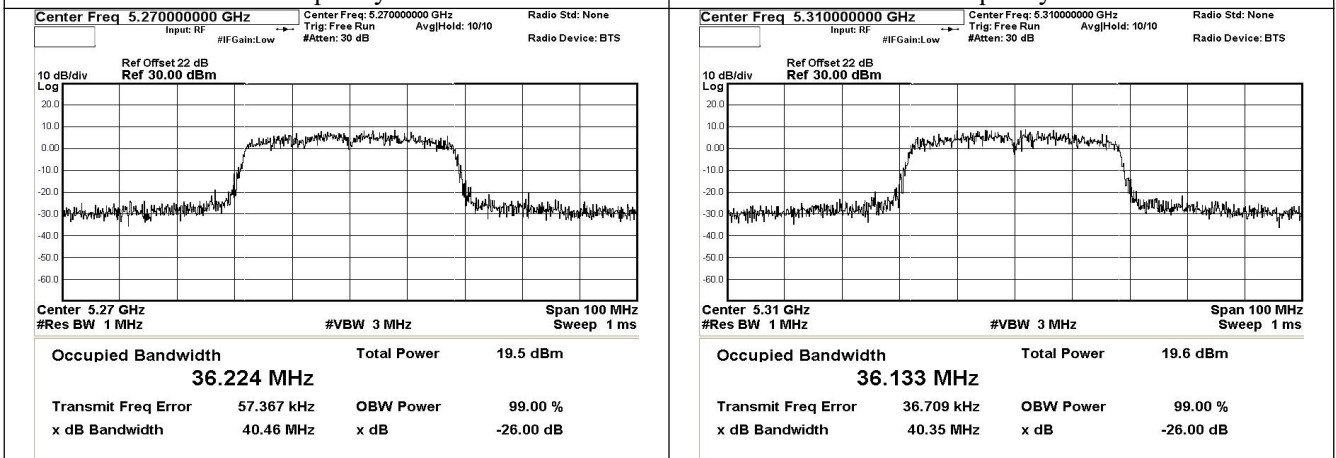
Mode:802.11ac VHT20 Frequency:5320MHz
Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5270MHz Ant:Chain0

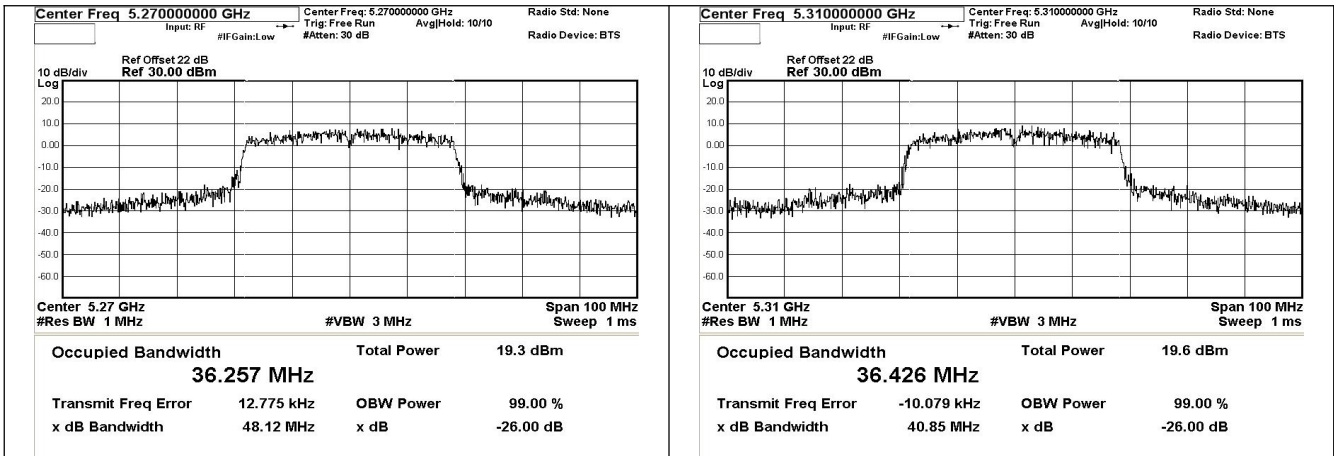
Mode:802.11n HT40 Frequency:5310MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5270MHz Ant:Chain1

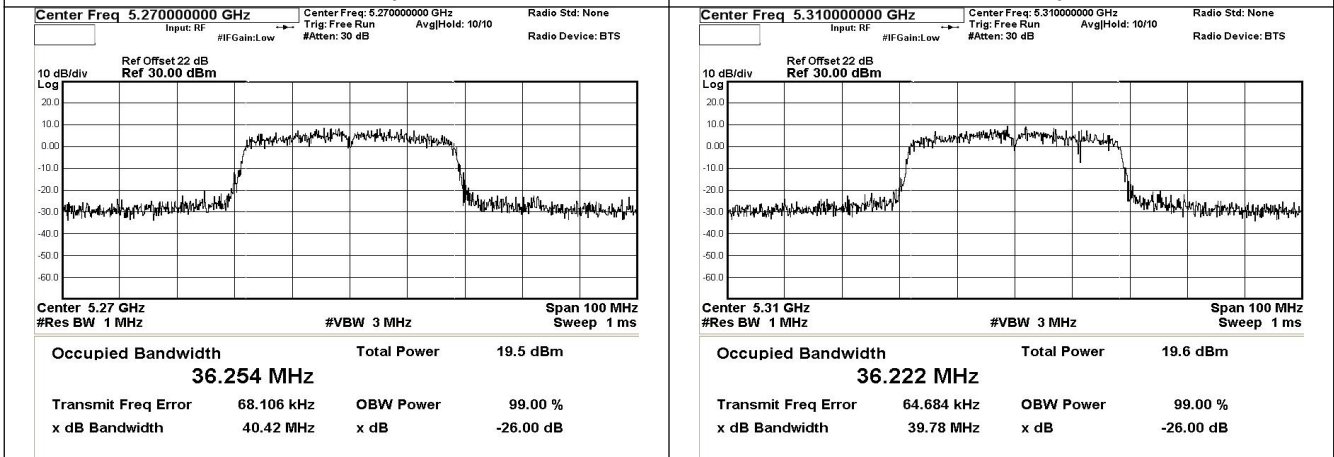
Mode:802.11n HT40 Frequency:5310MHz Ant:Chain1

Test Mode: 802.11ac VHT40



Mode:802.11ac VHT40 Frequency:5270MHz
Ant:Chain0

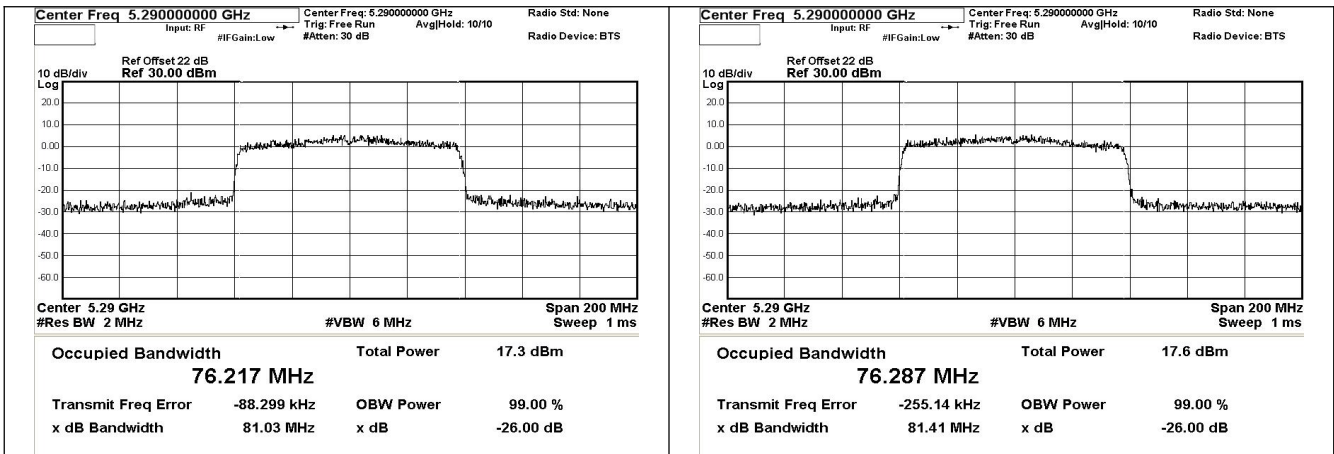
Mode:802.11ac VHT40 Frequency:5310MHz
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5270MHz
Ant:Chain1

Mode:802.11ac VHT40 Frequency:5310MHz
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5290MHz
Ant:Chain0

Mode:802.11ac VHT80 Frequency:5290MHz
Ant:Chain1

Occupied Bandwidth

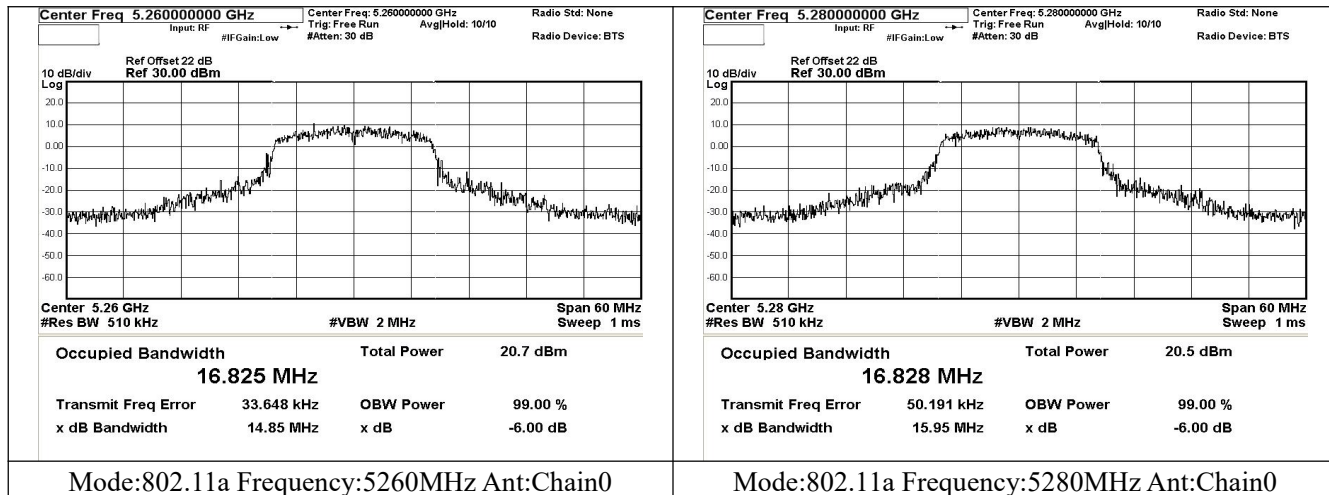
Offset 22dB = Attenuator + Temporary antenna connector loss + Cable loss

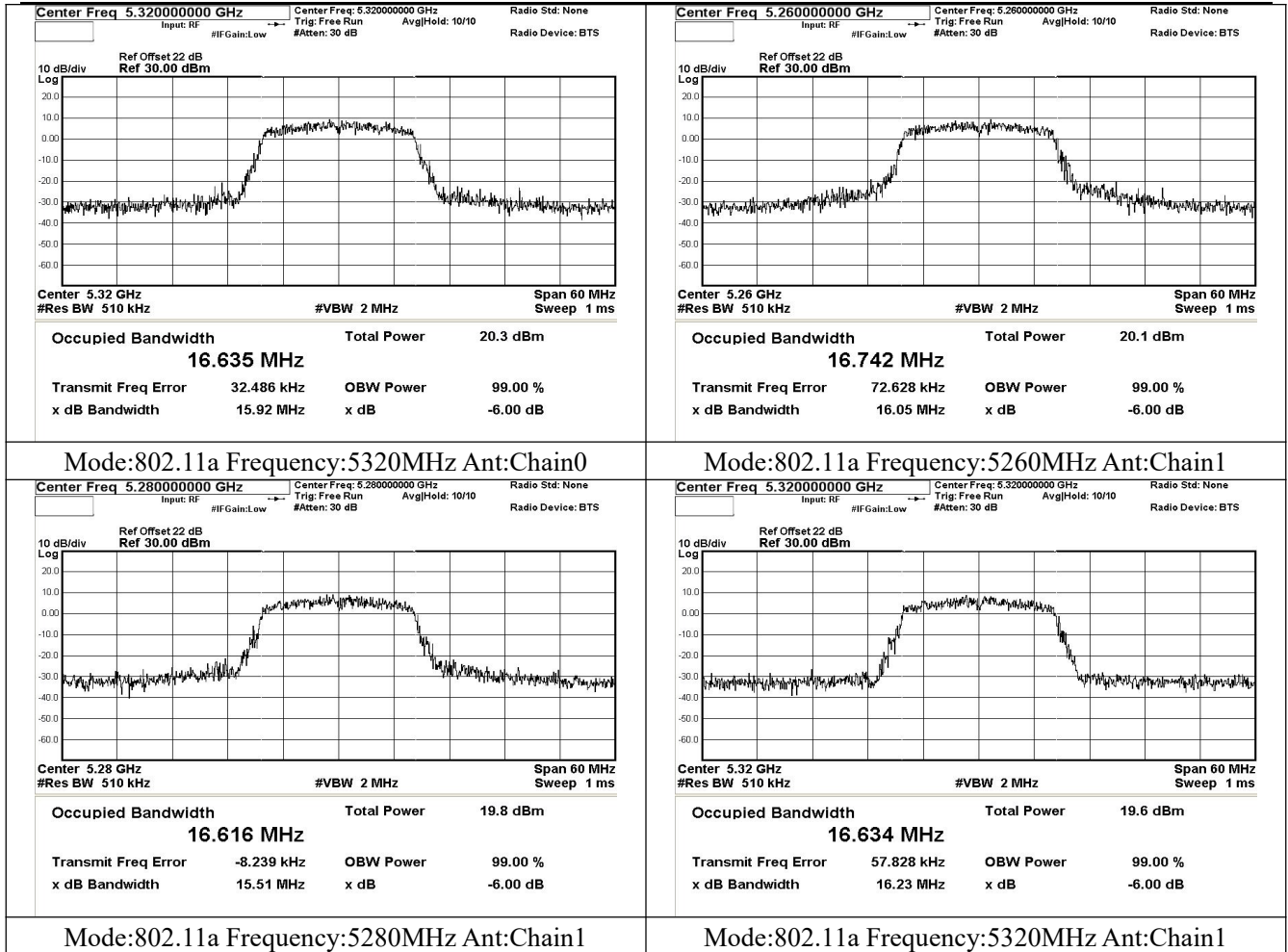
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.825	16.828	16.635
802.11a	Chain1	16.742	16.616	16.634
802.11n HT20	Chain0	17.872	18.042	17.718
802.11n HT20	Chain1	17.819	17.691	17.728
802.11ac VHT20	Chain0	17.899	17.796	17.918
802.11ac VHT20	Chain1	17.857	17.730	17.701

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.339	---	36.223
802.11n HT40	Chain1	36.255	---	36.184
802.11ac VHT40	Chain0	36.303	---	36.344
802.11ac VHT40	Chain1	36.159	---	36.235

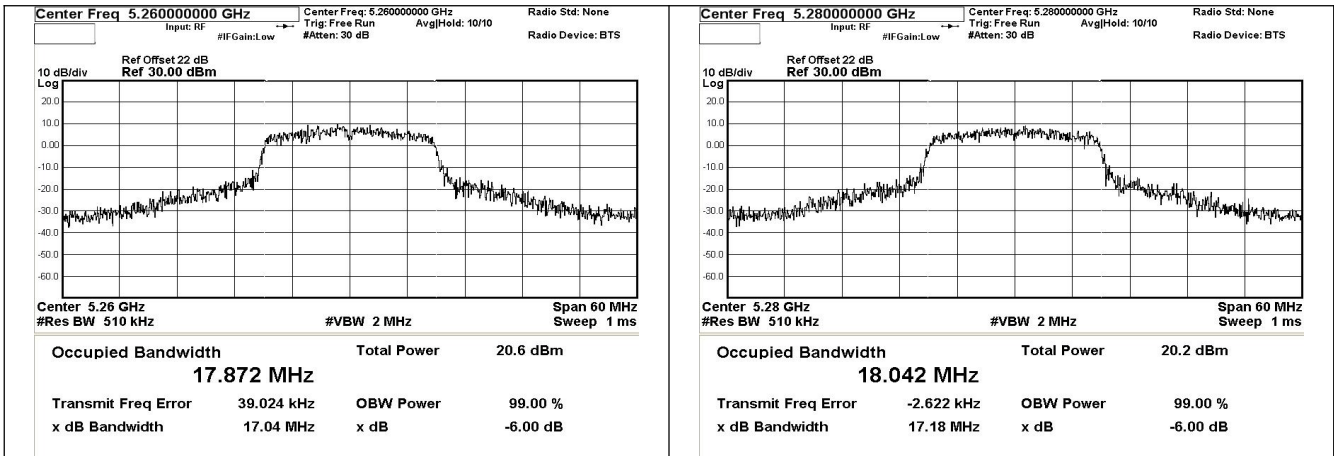
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	76.316	---	---
802.11ac VHT80	Chain1	76.203	---	---

Test Mode: 802.11a

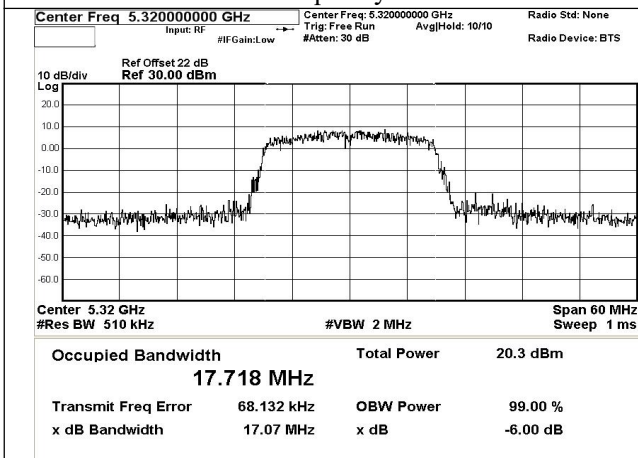




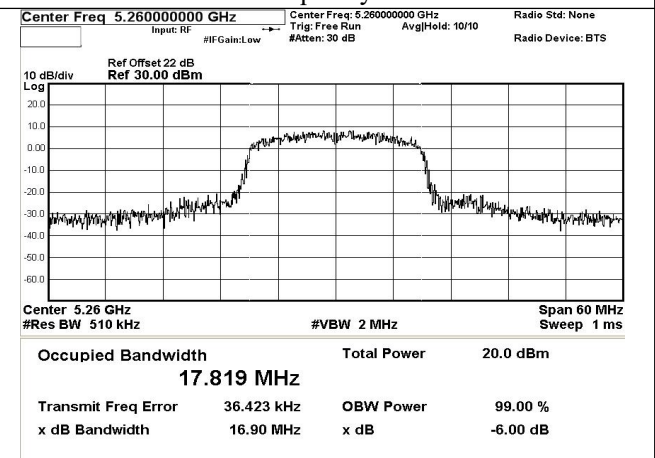
Test Mode: 802.11n HT20



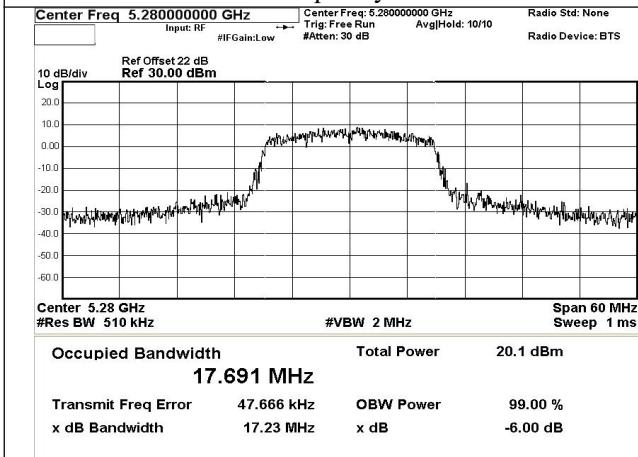
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0



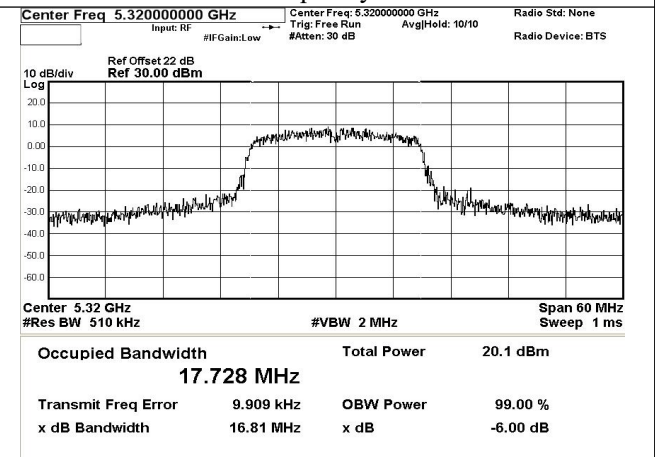
Mode:802.11n HT20 Frequency:5280MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5320MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5260MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5280MHz Ant:Chain1

Mode:802.11n HT20 Frequency:5320MHz Ant:Chain1