

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5500	99.49%	0	Fig.1
802.11a	5500	99.47%	0	Fig.2
802.11n HT20	5500	98.47%	0	Fig.3
802.11n HT20	5500	99.43%	0	Fig.4
802.11n HT40	5510	96.87%	0.14	Fig.5
802.11n HT40	5510	96.84%	0.14	Fig.6

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

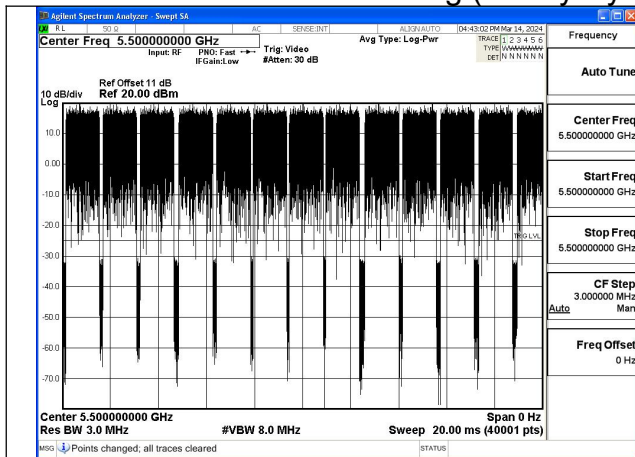


Fig.1

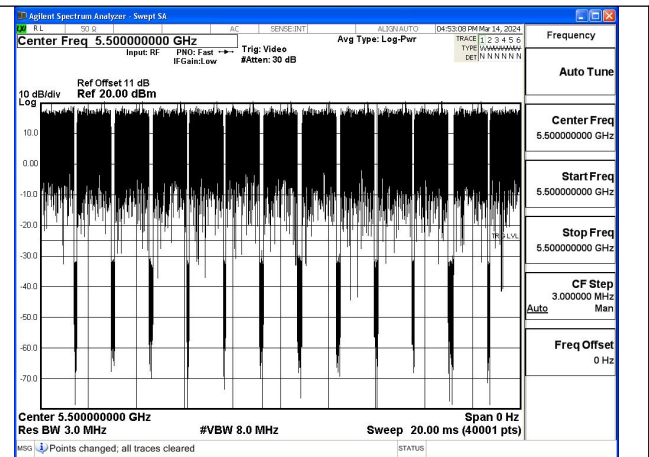


Fig.2

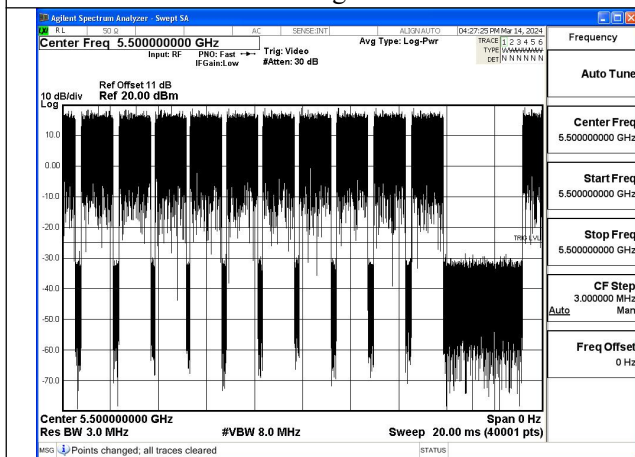


Fig.3

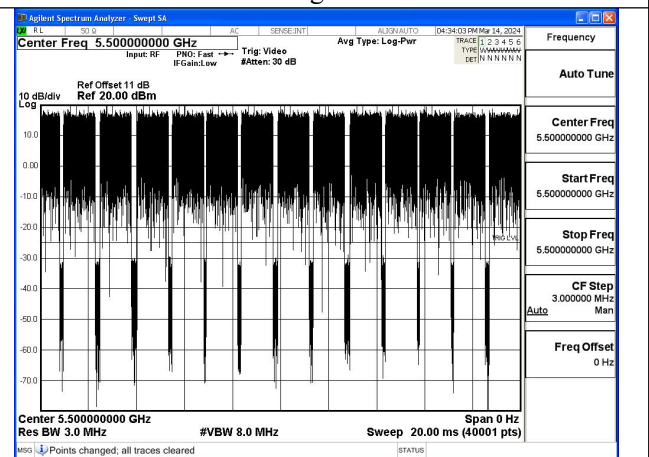


Fig.4

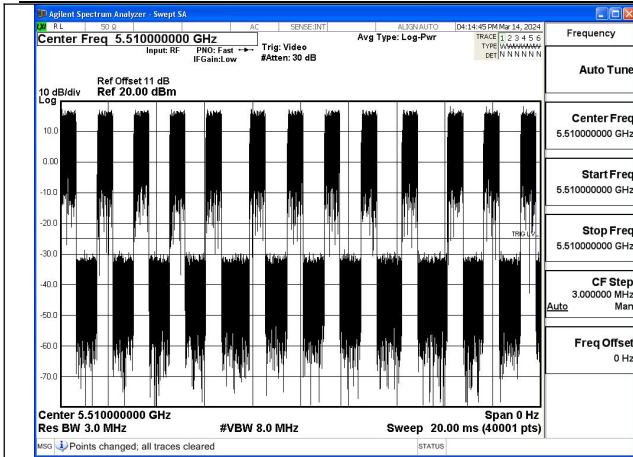


Fig.5

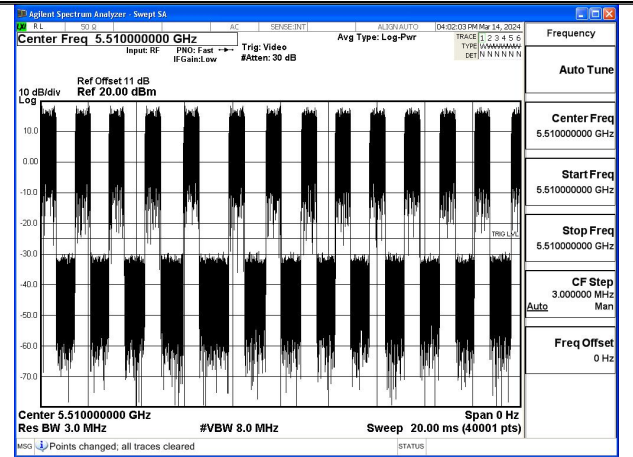


Fig.6

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain1	15.29	17.79
802.11a	NA	5500	Chain0	15.24	17.05
802.11a	NA	5580	Chain1	15.63	18.13
802.11a	NA	5580	Chain0	15.28	17.09
802.11a	NA	5700	Chain1	15.44	17.94
802.11a	NA	5700	Chain0	15.45	17.26
802.11n HT20	NA	5500	Chain1	14.26	16.76
802.11n HT20	NA	5500	Chain0	14.81	16.62
802.11n HT20	NA	5580	Chain1	15.14	17.64
802.11n HT20	NA	5580	Chain0	15.11	16.92
802.11n HT20	NA	5700	Chain1	15.47	17.97
802.11n HT20	NA	5700	Chain0	15.33	17.14
802.11n HT40	NA	5510	Chain1	14.48	16.98
802.11n HT40	NA	5510	Chain0	15.51	17.32
802.11n HT40	NA	5590	Chain1	15.15	17.65
802.11n HT40	NA	5590	Chain0	14.21	16.02
802.11n HT40	NA	5670	Chain1	15.92	18.42
802.11n HT40	NA	5670	Chain0	14.83	16.64

NOTE: This product does not support MIMO emission

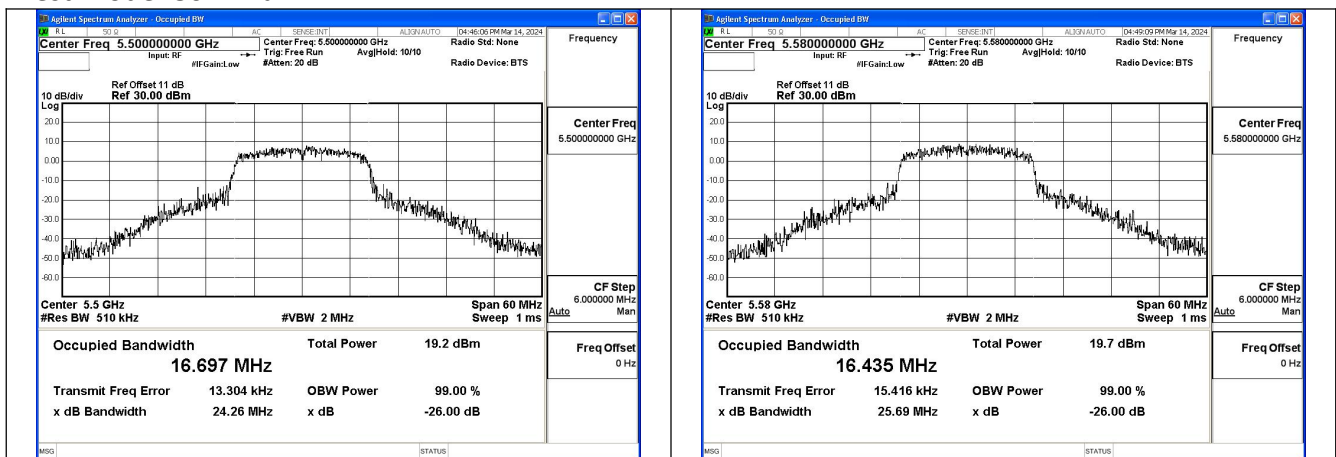
Emission Bandwidth

Offset 11dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	24.26	25.69	28.55
802.11a	Chain1	24.41	29.19	25.49
802.11n HT20	Chain0	23.59	22.26	24.56
802.11n HT20	Chain1	27.17	24.95	23.64

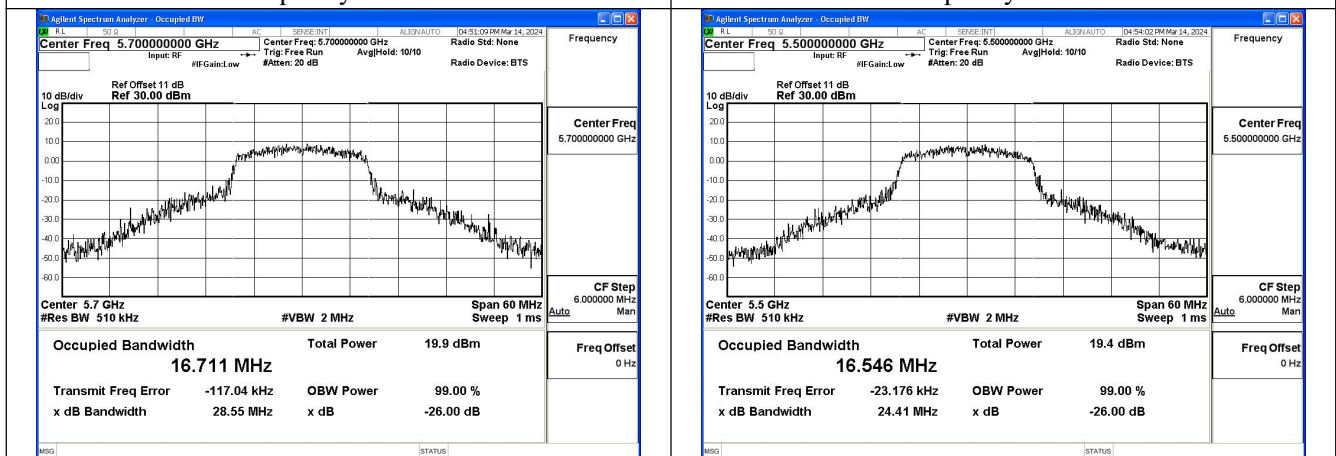
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	38.39	38.24	38.06
802.11n HT40	Chain1	38.29	38.25	38.76

Test Mode: 802.11a



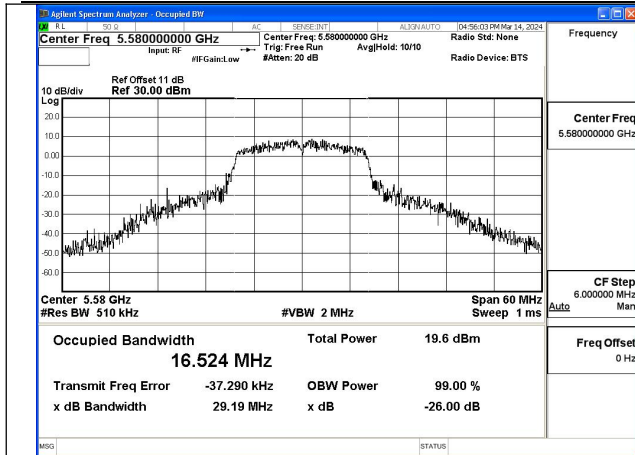
Mode:802.11a Frequency:5500MHz Ant:Chain0

Mode:802.11a Frequency:5580MHz Ant:Chain0

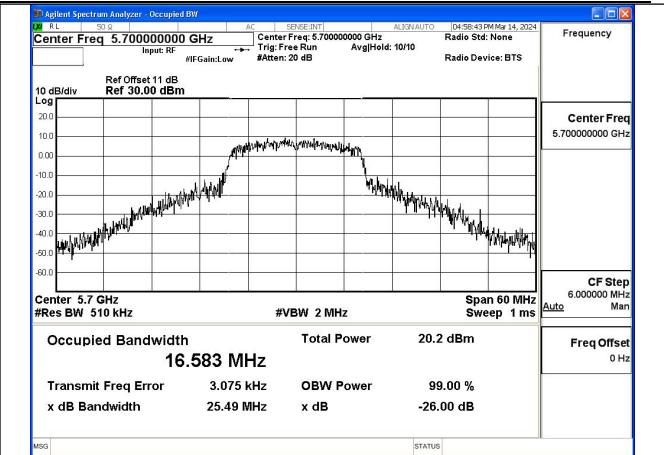


Mode:802.11a Frequency:5700MHz Ant:Chain0

Mode:802.11a Frequency:5500MHz Ant:Chain1

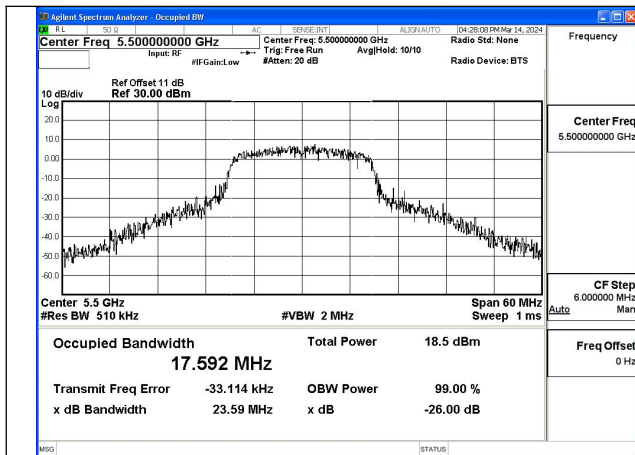


Mode:802.11a Frequency:5580MHz Ant:Chain1

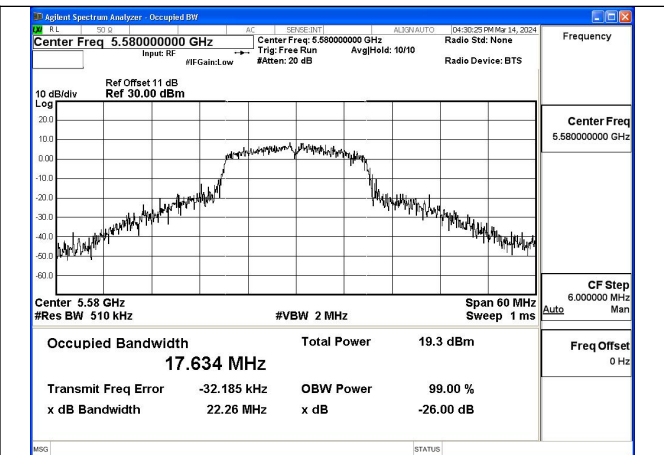


Mode:802.11a Frequency:5700MHz Ant:Chain1

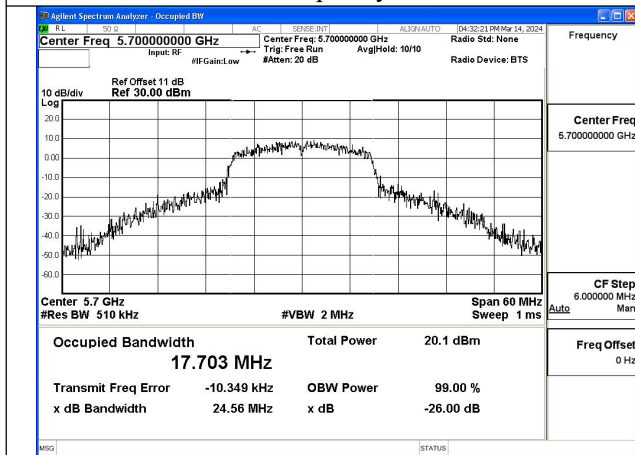
Test Mode: 802.11n HT20



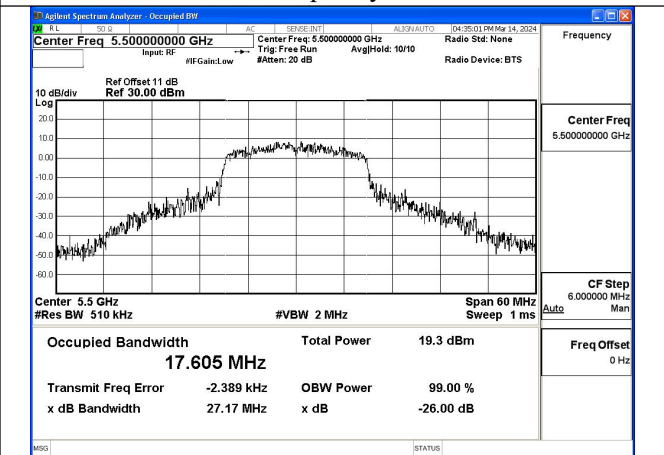
Mode:802.11n HT20 Frequency:5500MHz Ant:Chain0



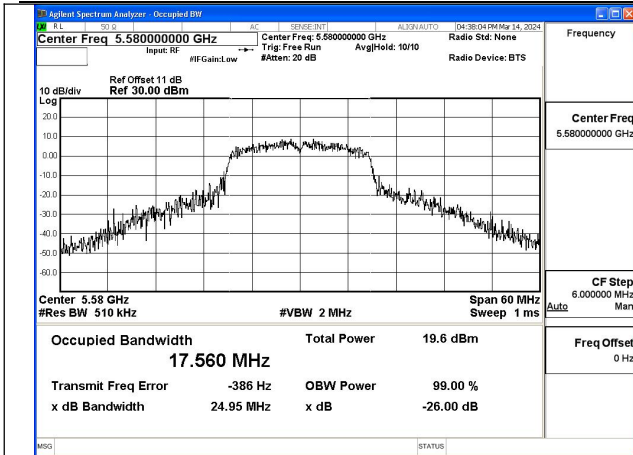
Mode:802.11n HT20 Frequency:5580MHz Ant:Chain0



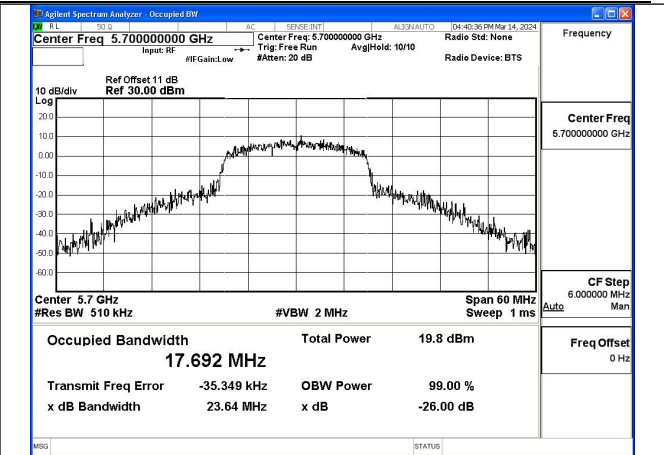
Mode:802.11n HT20 Frequency:5700MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5500MHz Ant:Chain1

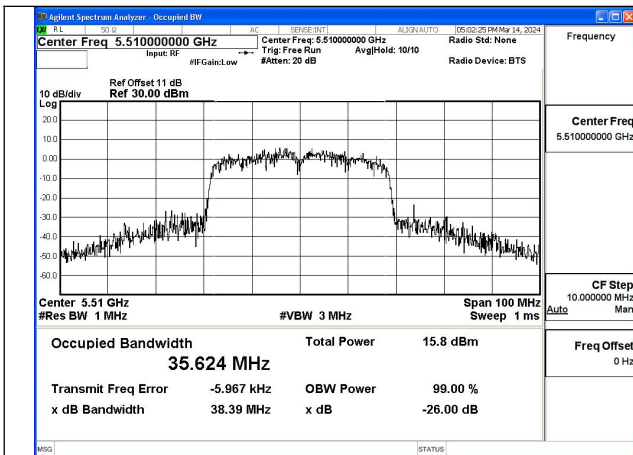


Mode:802.11n HT20 Frequency:5580MHz Ant:Chain1

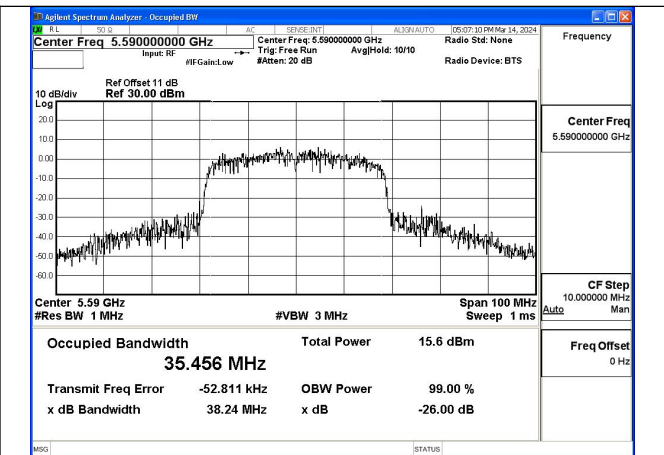


Mode:802.11n HT20 Frequency:5700MHz Ant:Chain1

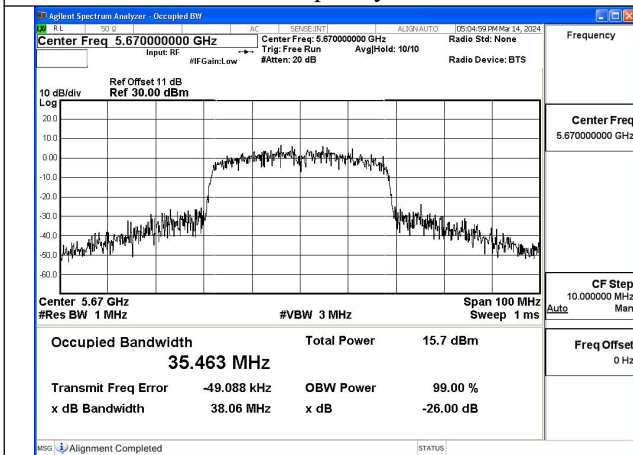
Test Mode: 802.11n HT40



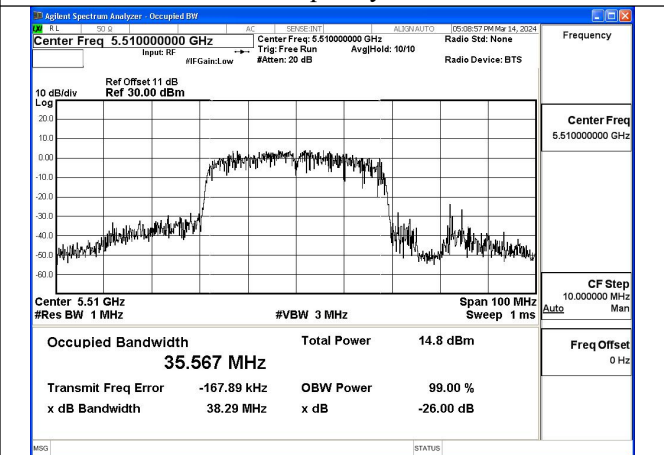
Mode:802.11n HT40 Frequency:5510MHz Ant:Chain0



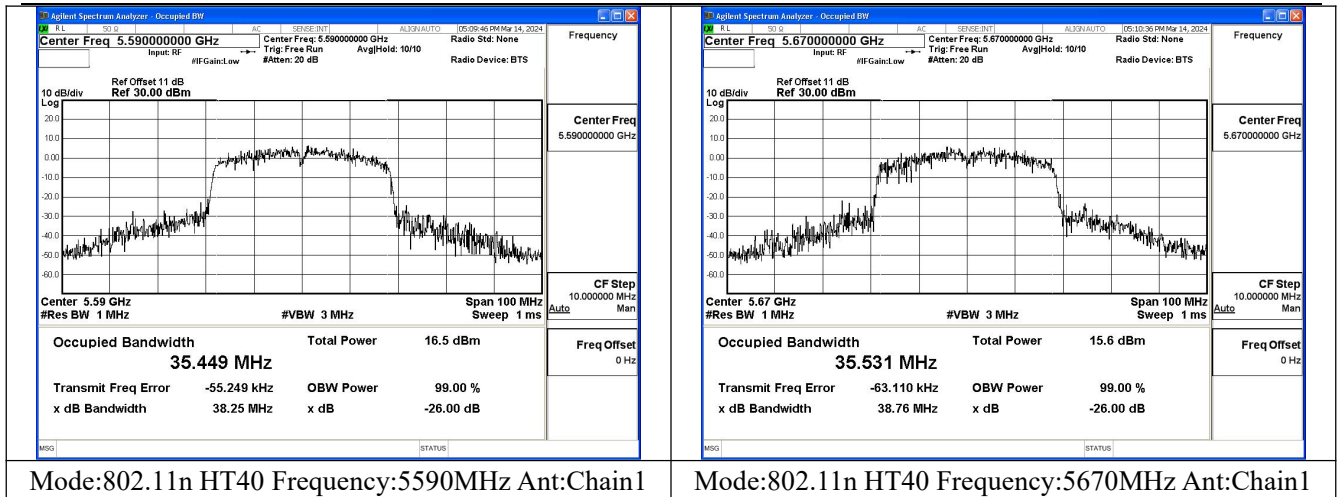
Mode:802.11n HT40 Frequency:5590MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5670MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5510MHz Ant:Chain1



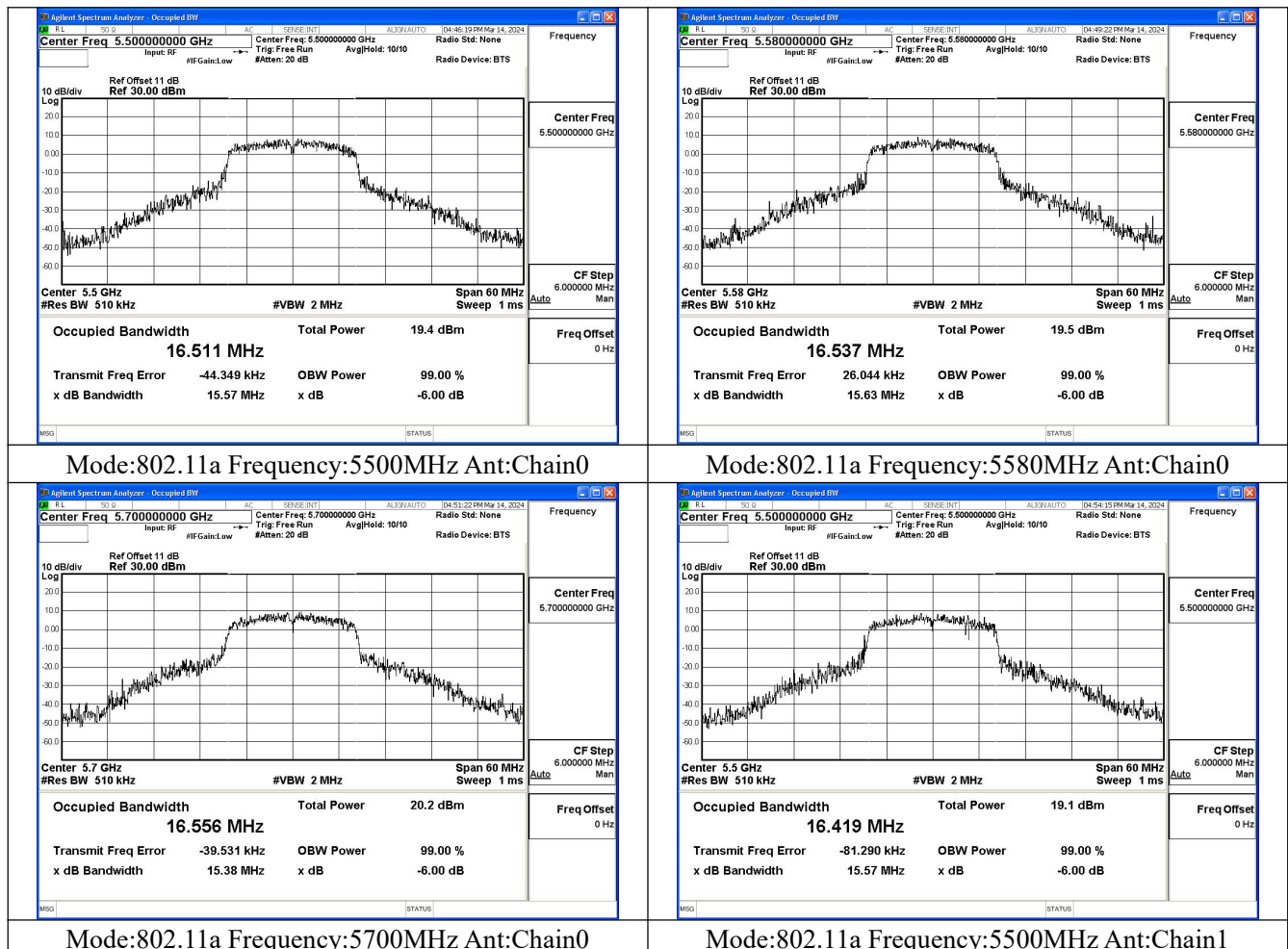
Occupied Bandwidth

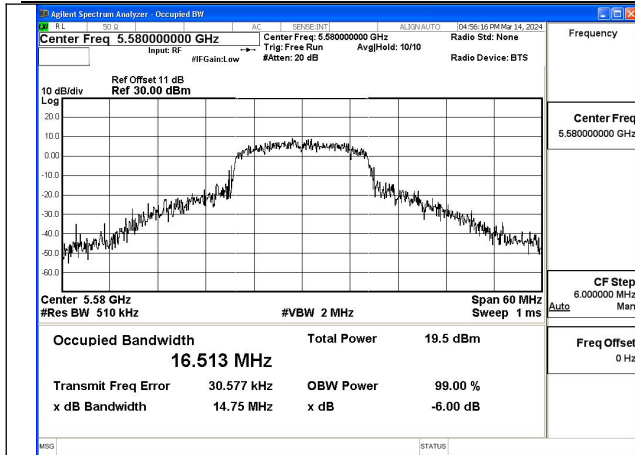
Offset 11dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.511	16.537	16.556
802.11a	Chain1	16.419	16.513	16.723
802.11n HT20	Chain0	17.564	17.598	17.670
802.11n HT20	Chain1	17.630	17.646	17.676

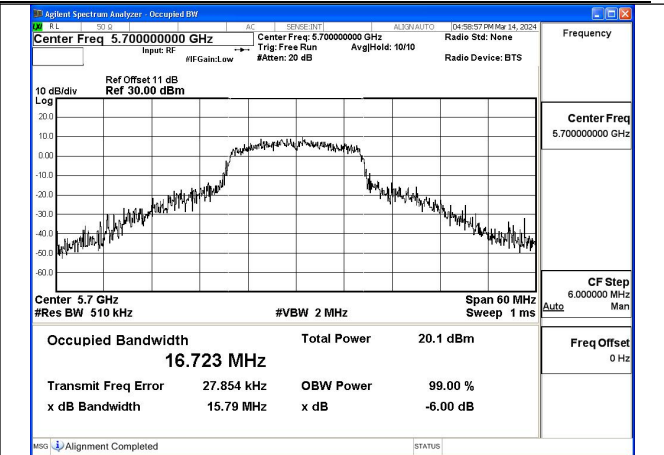
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	35.424	35.622	35.607
802.11n HT40	Chain1	35.609	35.552	35.340

Test Mode: 802.11a



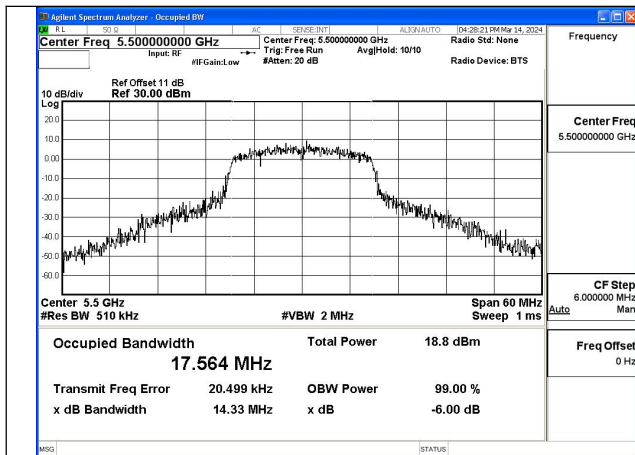


Mode:802.11a Frequency:5580MHz Ant:Chain1

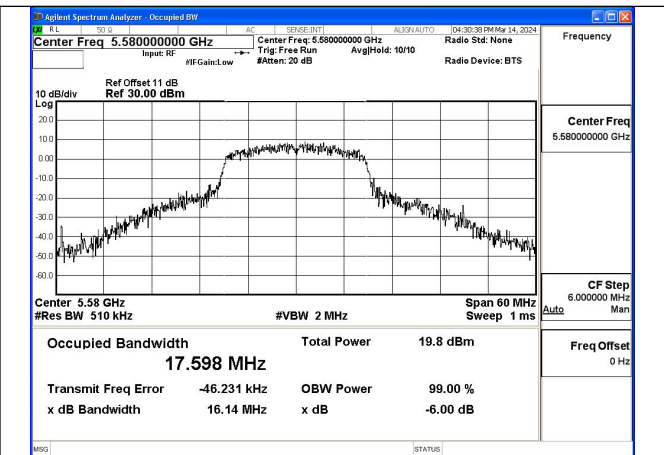


Mode:802.11a Frequency:5700MHz Ant:Chain1

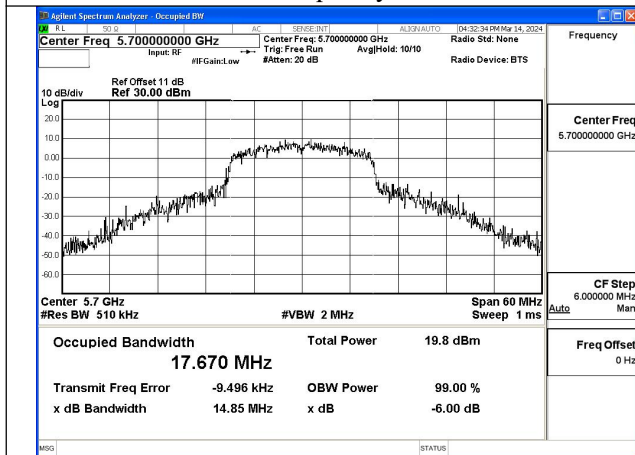
Test Mode: 802.11n HT20



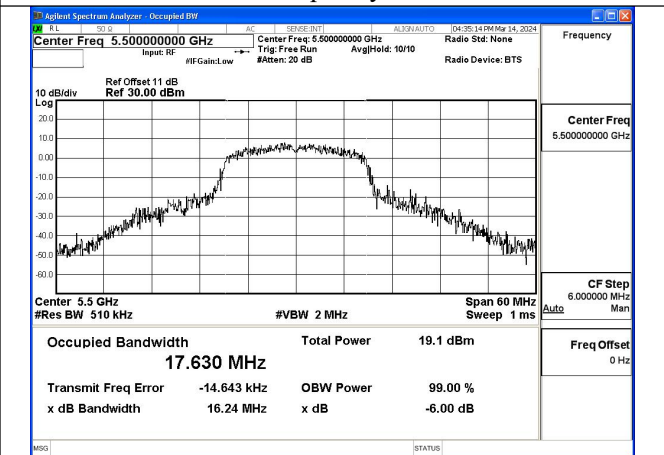
Mode:802.11n HT20 Frequency:5500MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5580MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5700MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5500MHz Ant:Chain1