

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	99.25%	0	Fig.1
802.11a	5180	99.28%	0	Fig.2
802.11n HT20	5180	99.01%	0	Fig.3
802.11n HT20	5180	99.27%	0	Fig.4
802.11n HT40	5190	96.40%	0.16	Fig.5
802.11n HT40	5190	96.46%	0.16	Fig.6

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

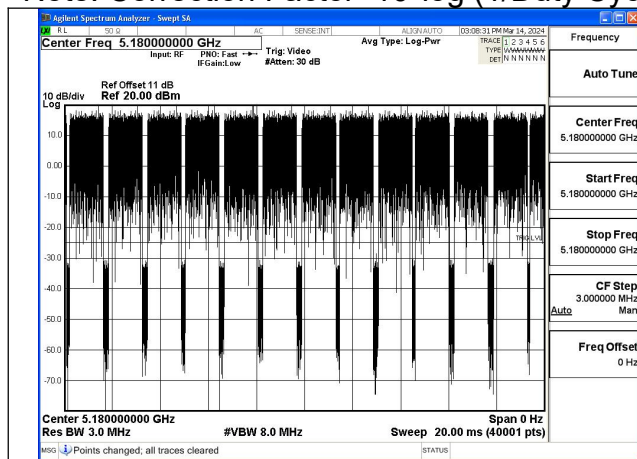


Fig.1

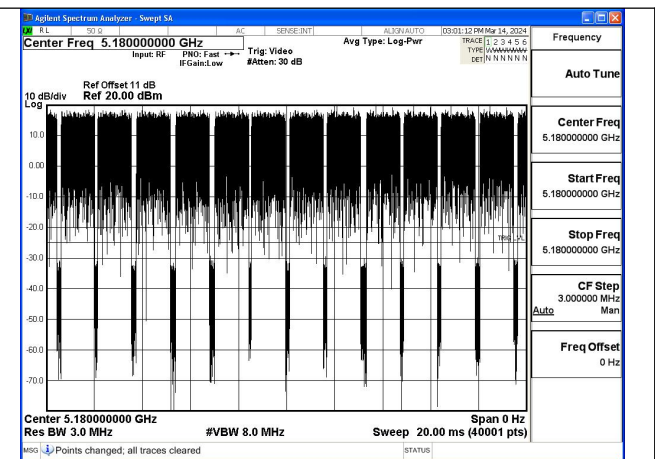


Fig.2

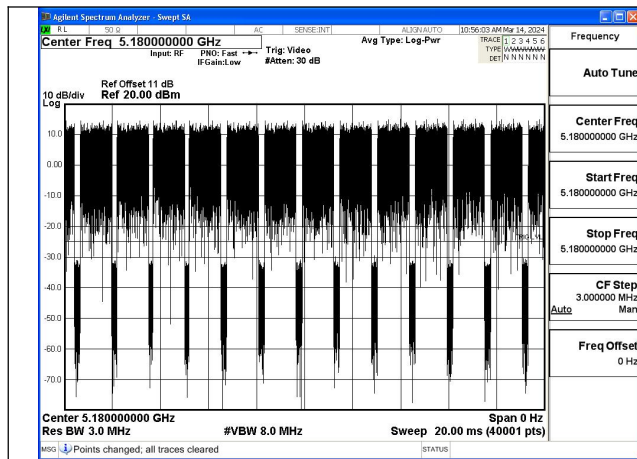


Fig.3

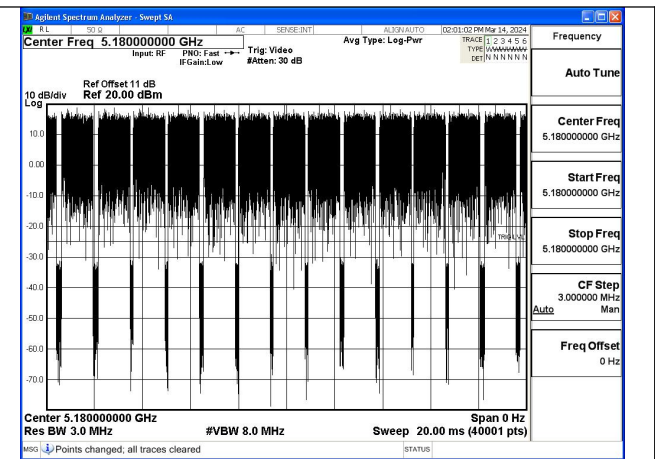


Fig.4

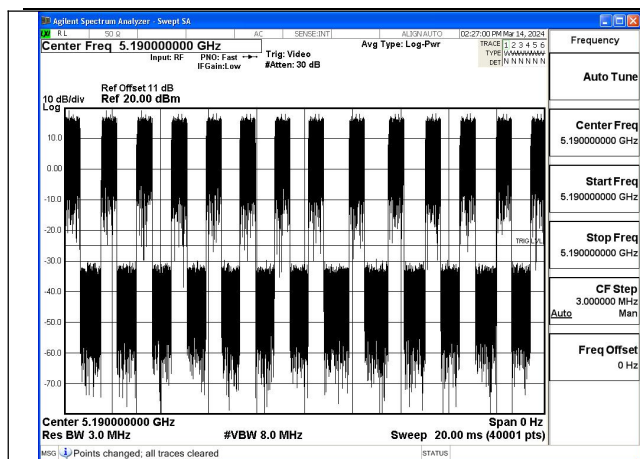


Fig.5

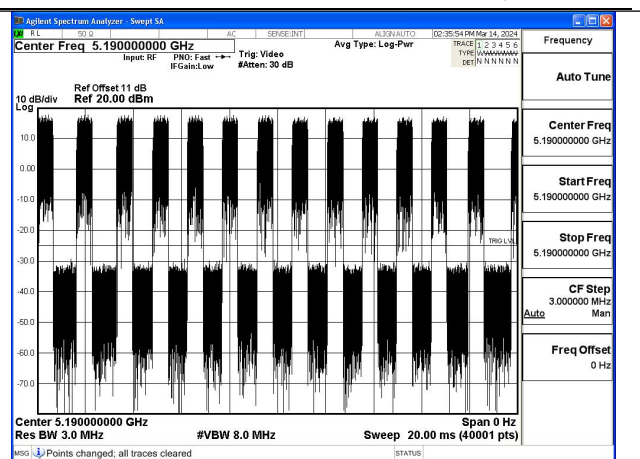


Fig.6

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain1	14.58	17.08
802.11a	NA	5180	Chain0	14.96	16.77
802.11a	NA	5220	Chain1	15.05	17.55
802.11a	NA	5220	Chain0	15.65	17.46
802.11a	NA	5240	Chain1	15.16	17.66
802.11a	NA	5240	Chain0	15.13	16.94
802.11n HT20	NA	5180	Chain1	15.80	18.30
802.11n HT20	NA	5180	Chain0	14.42	16.23
802.11n HT20	NA	5220	Chain1	16.10	18.60
802.11n HT20	NA	5220	Chain0	14.65	16.46
802.11n HT20	NA	5240	Chain1	15.43	17.93
802.11n HT20	NA	5240	Chain0	14.57	16.38
802.11n HT40	NA	5190	Chain1	15.62	18.12
802.11n HT40	NA	5190	Chain0	14.84	16.65
802.11n HT40	NA	5230	Chain1	16.47	18.97
802.11n HT40	NA	5230	Chain0	15.00	16.81

NOTE: This product does not support MIMO emission

Emission Bandwidth

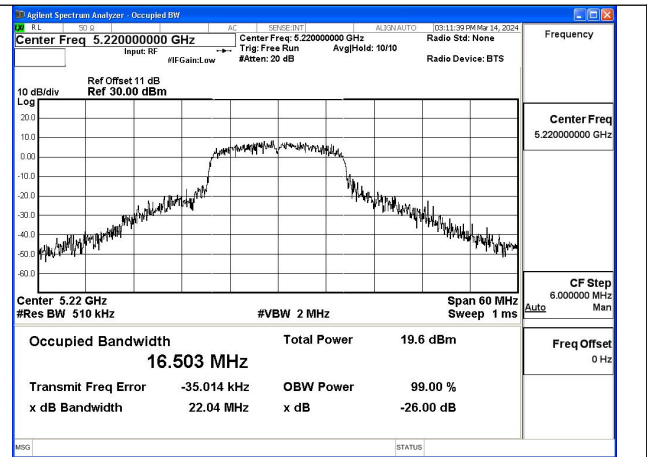
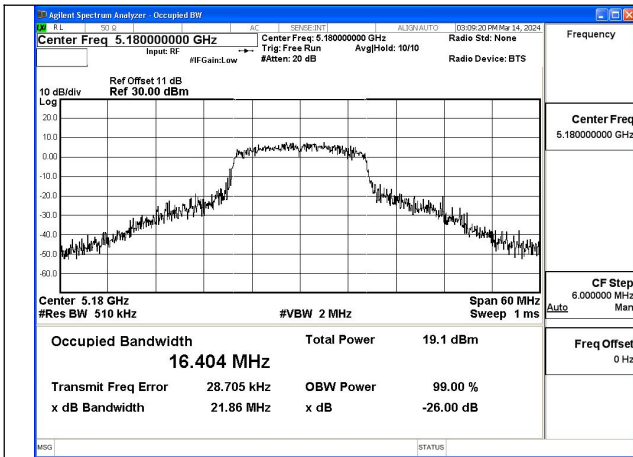
Offset 11dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	21.86	22.04	21.81
802.11a	Chain1	22.92	24.32	22.95

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11n HT20	Chain0	20.72	20.79	21.26
802.11n HT20	Chain1	21.05	26.27	22.13

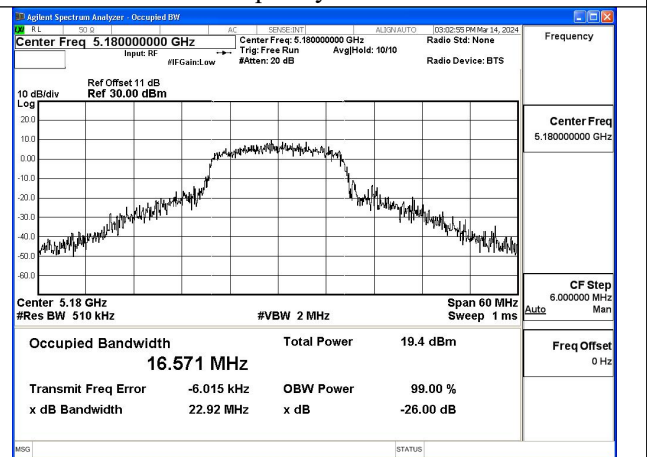
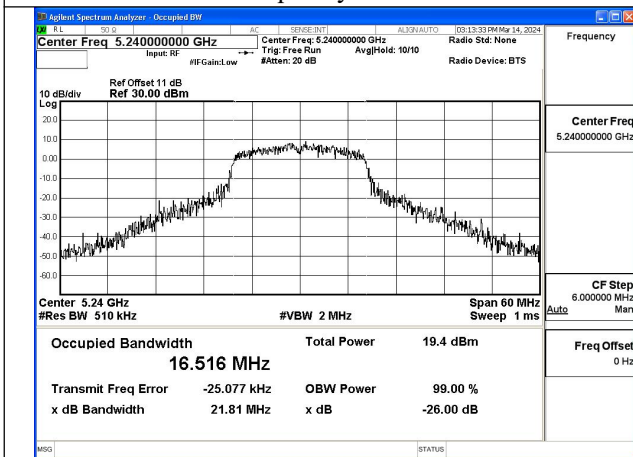
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	38.08	---	38.20
802.11n HT40	Chain1	37.92	---	38.24

Test Mode: 802.11a



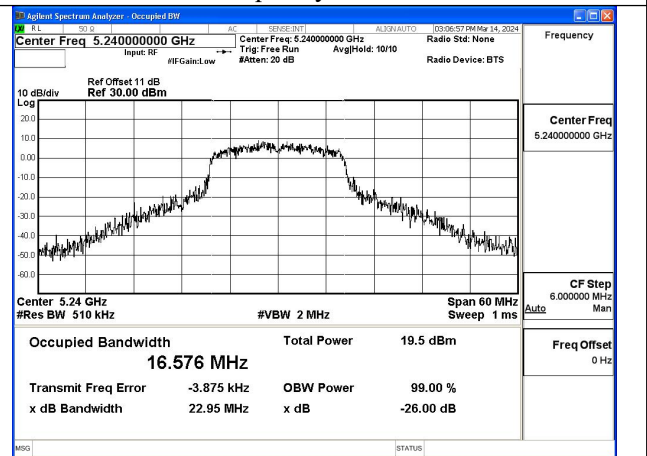
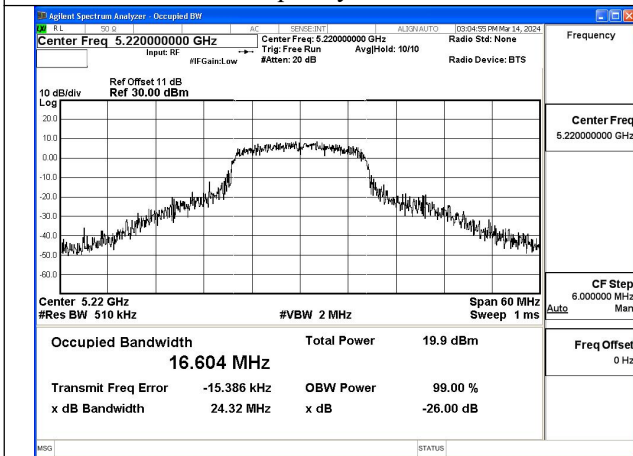
Mode:802.11a Frequency:5180MHz Ant:Chain0

Mode:802.11a Frequency:5220MHz Ant:Chain0



Mode:802.11a Frequency:5240MHz Ant:Chain0

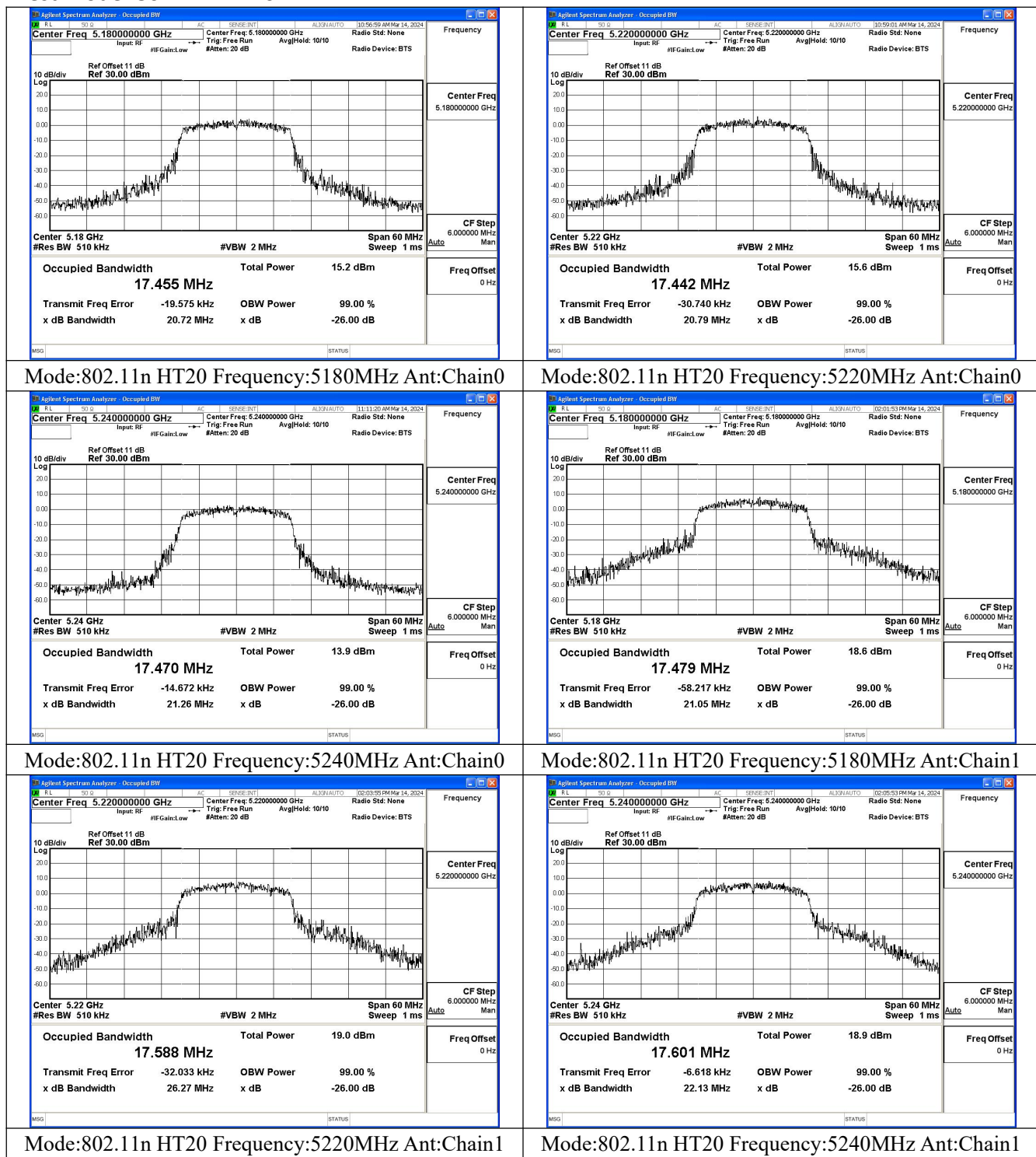
Mode:802.11a Frequency:5180MHz Ant:Chain1



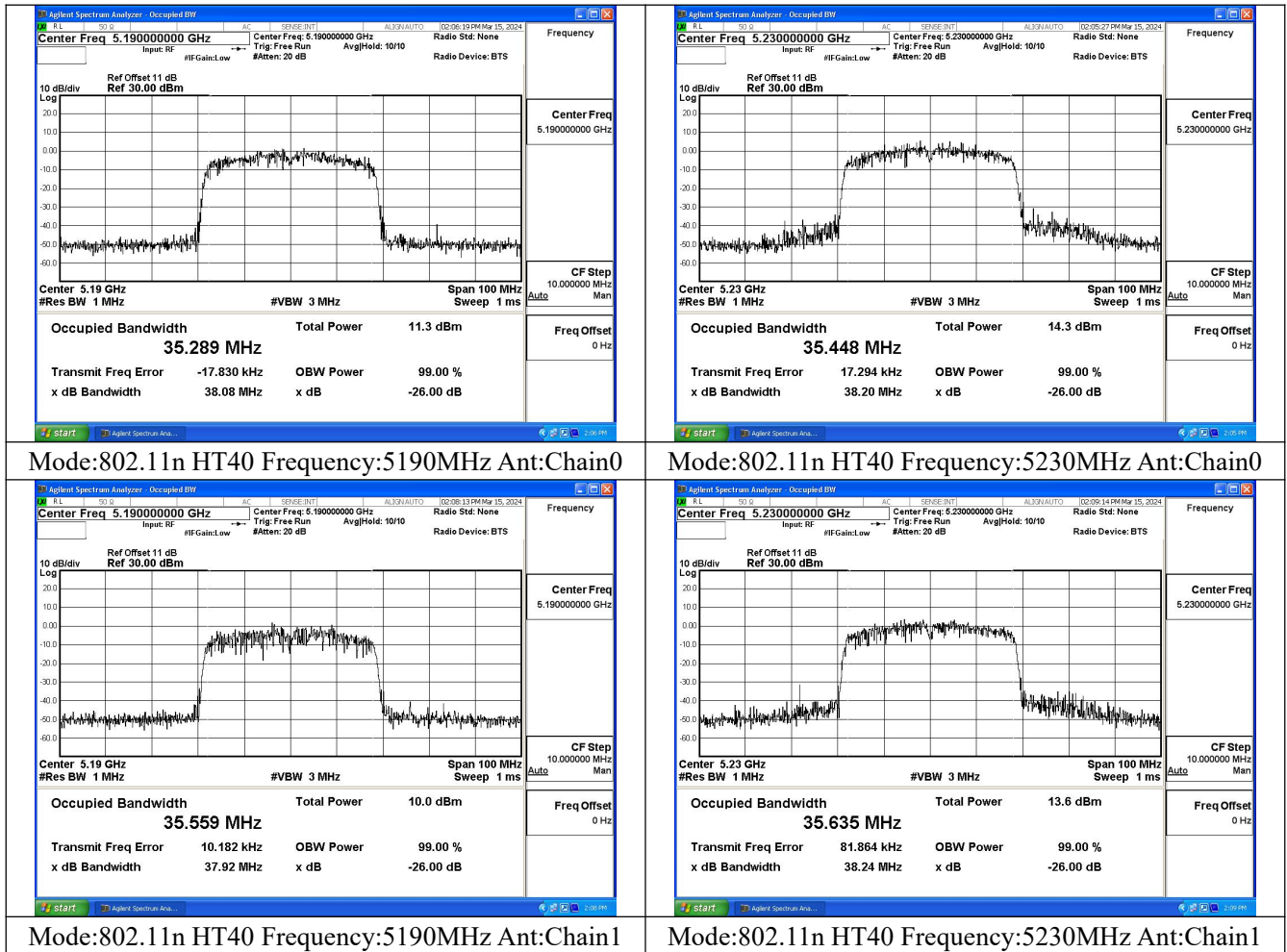
Mode:802.11a Frequency:5220MHz Ant:Chain1

Mode:802.11a Frequency:5240MHz Ant:Chain1

Test Mode: 802.11n HT20



Test Mode: 802.11n HT40



Occupied Bandwidth

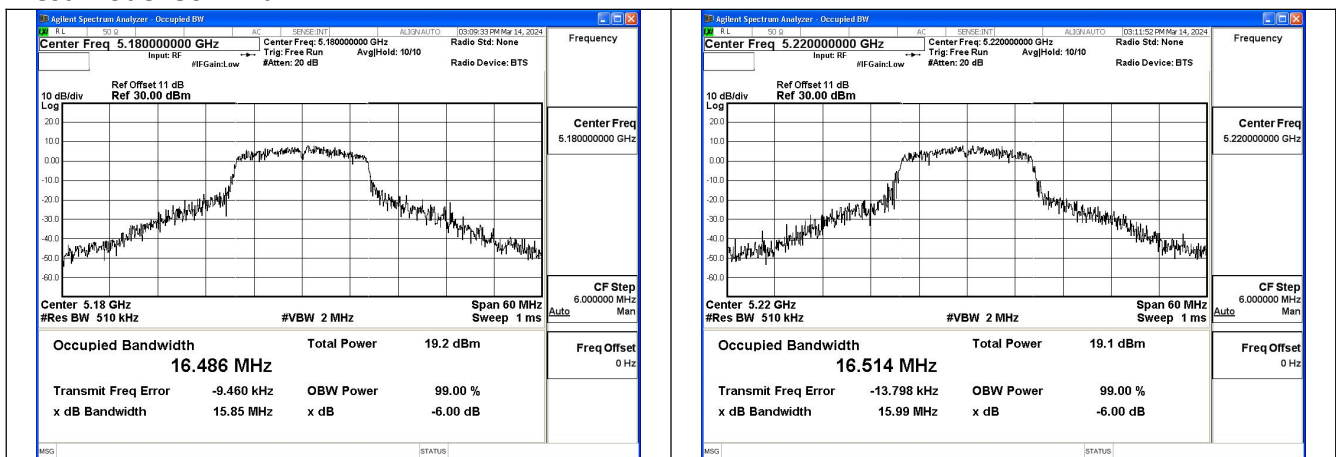
Offset 11dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.486	16.514	16.409
802.11a	Chain1	16.441	16.473	16.523

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11n HT20	Chain0	17.455	17.453	17.518
802.11n HT20	Chain1	17.578	17.619	17.588

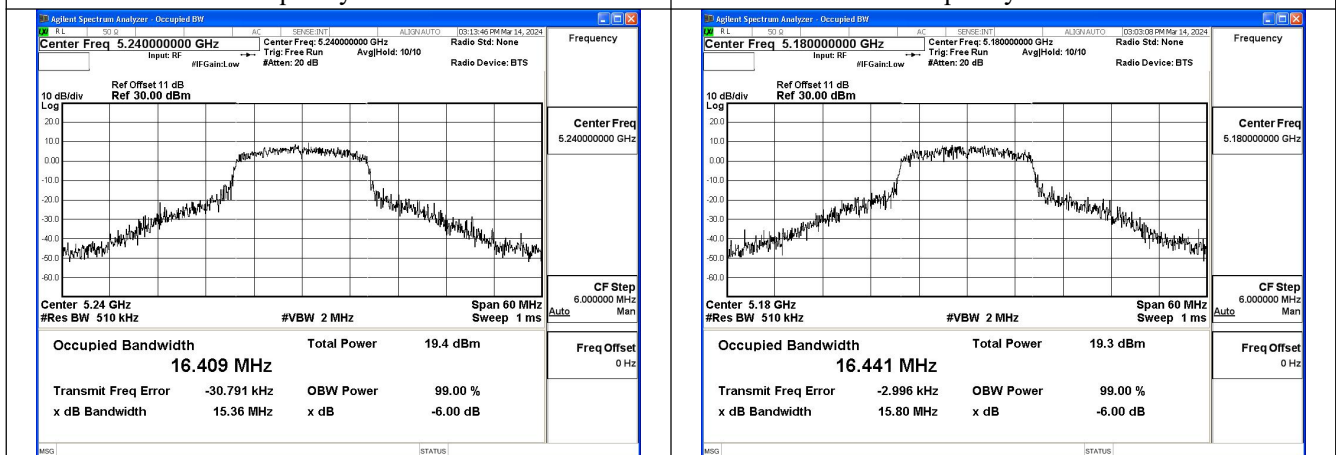
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	35.427	---	35.481
802.11n HT40	Chain1	35.425	---	35.730

Test Mode: 802.11a



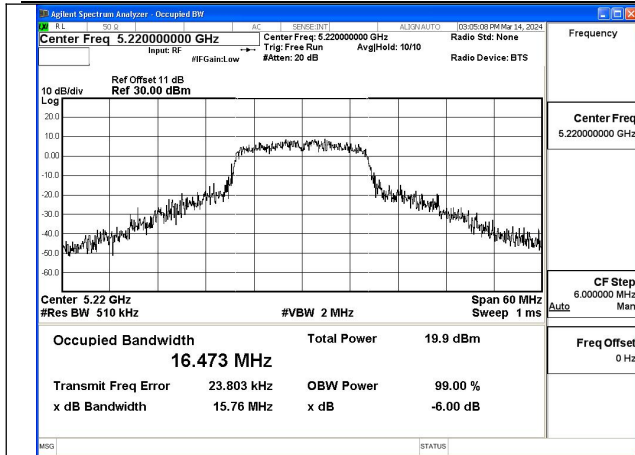
Mode: 802.11a Frequency: 5180MHz Ant: Chain0

Mode: 802.11a Frequency: 5220MHz Ant: Chain0

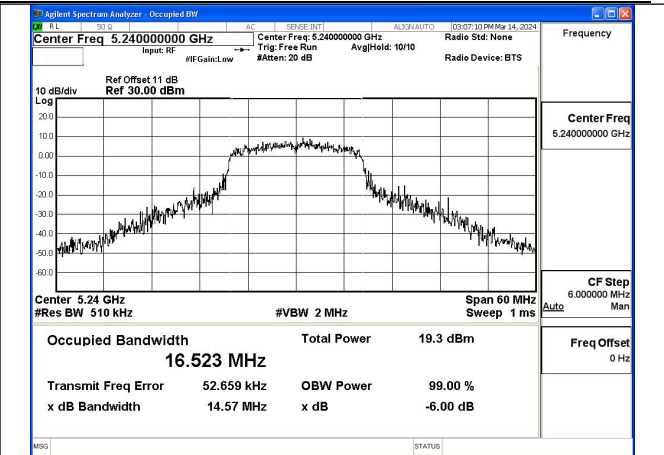


Mode: 802.11a Frequency: 5240MHz Ant: Chain0

Mode: 802.11a Frequency: 5180MHz Ant: Chain1

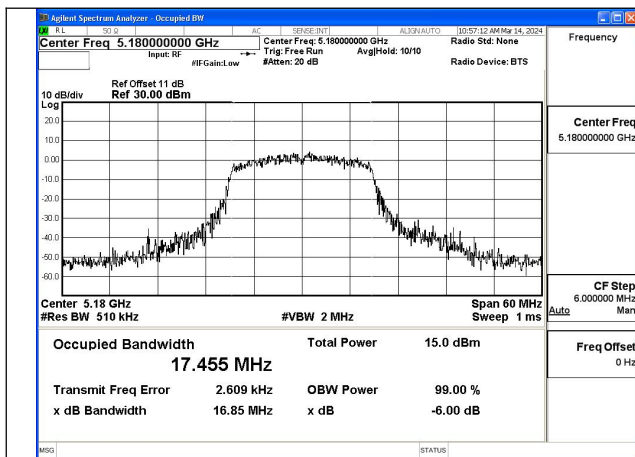


Mode:802.11a Frequency:5220MHz Ant:Chain1

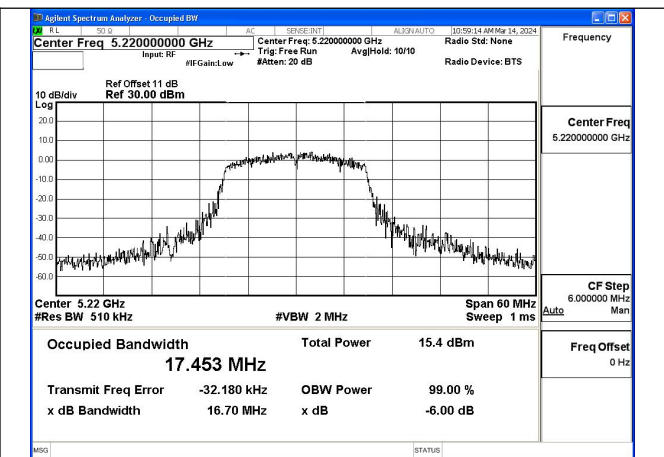


Mode:802.11a Frequency:5240MHz Ant:Chain1

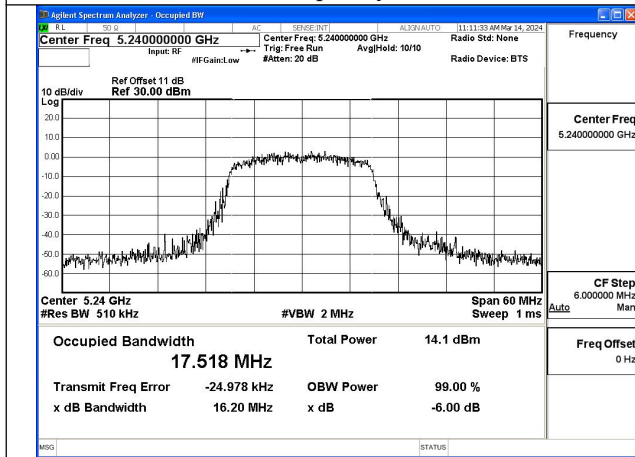
Test Mode: 802.11n HT20



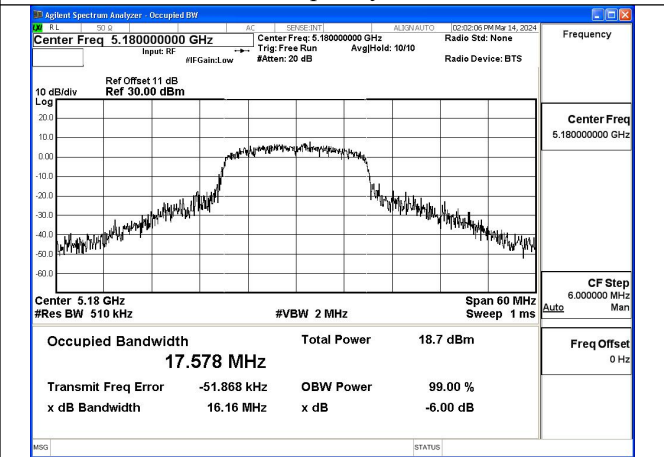
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0



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



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



Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1