

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5500	99.89%	0	Fig.1
802.11a	5500	99.89%	0	Fig.2
802.11n HT20	5500	99.93%	0	Fig.3
802.11n HT20	5500	99.86%	0	Fig.4
802.11ac VHT20	5500	99.90%	0	Fig.5
802.11ac VHT20	5500	99.91%	0	Fig.6
802.11n HT40	5510	99.79%	0	Fig.7
802.11n HT40	5510	99.82%	0	Fig.8
802.11ac VHT40	5510	99.78%	0	Fig.9
802.11ac VHT40	5510	99.79%	0	Fig.10
802.11ac VHT80	5530	99.64%	0	Fig.11
802.11ac VHT80	5530	99.63%	0	Fig.12

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

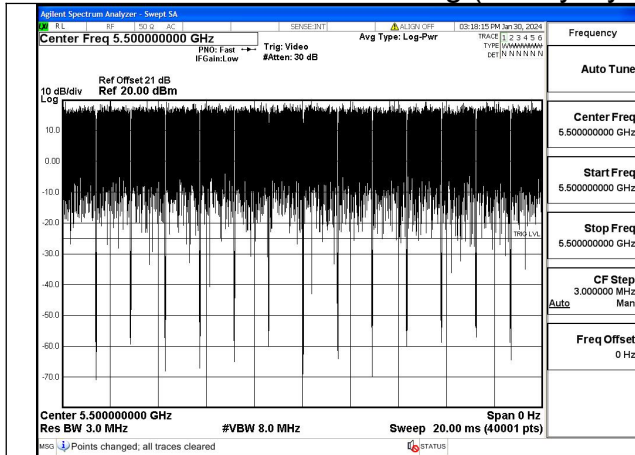


Fig.1

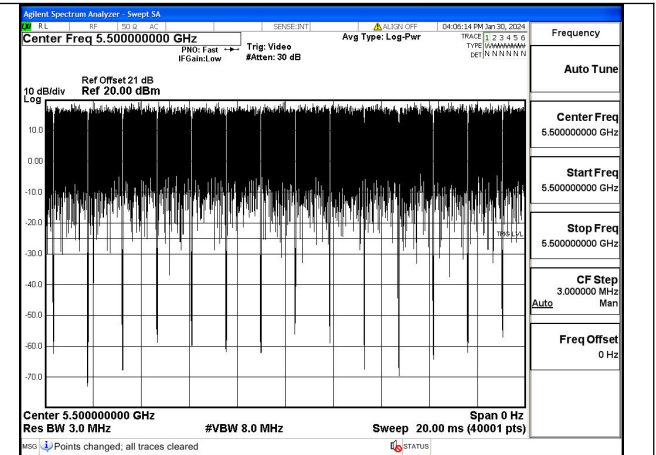


Fig.2

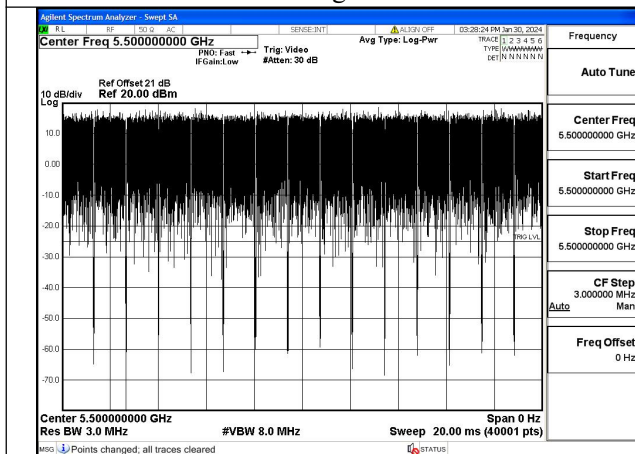


Fig.3

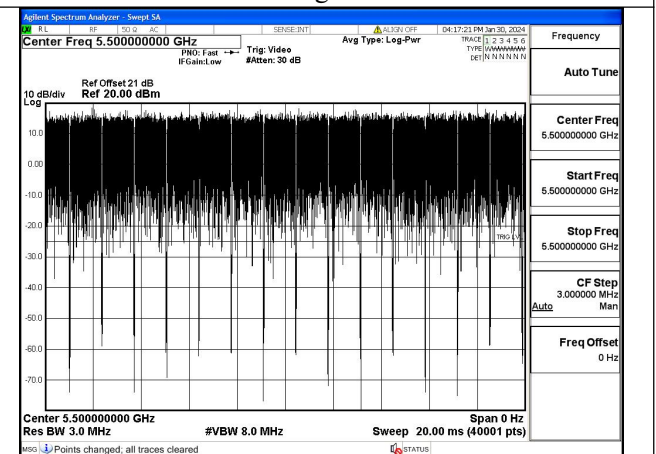


Fig.4

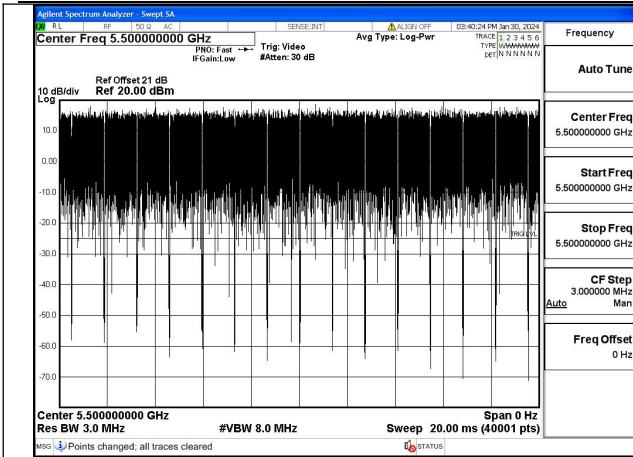


Fig.5

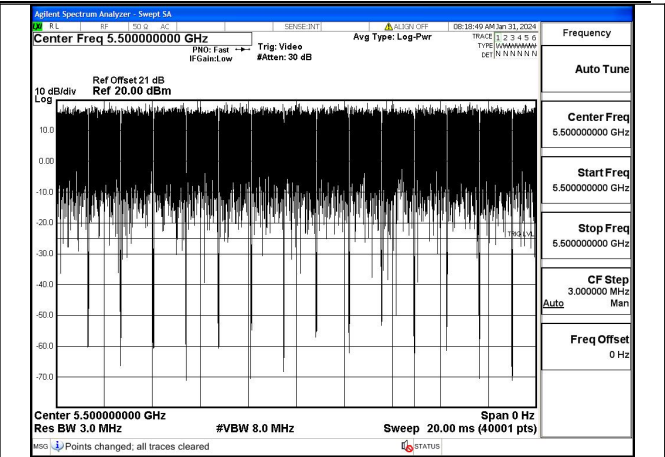


Fig.6

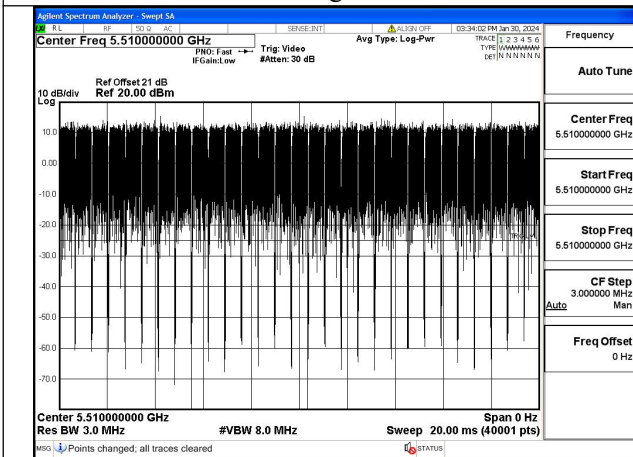


Fig.7

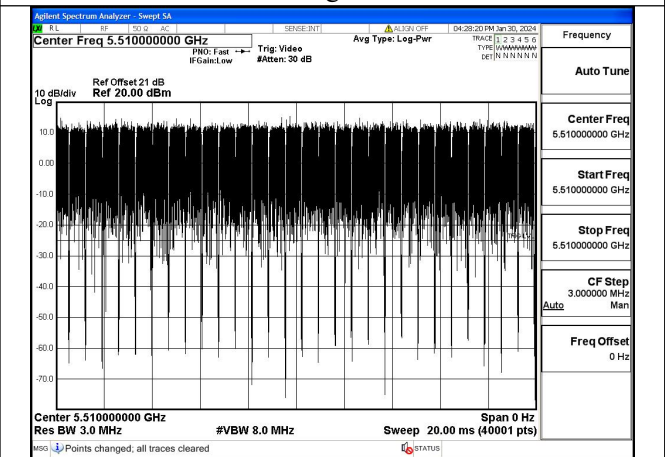


Fig.8

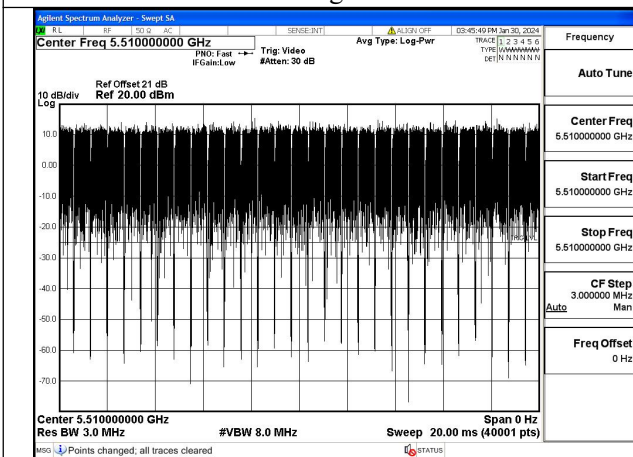


Fig.9

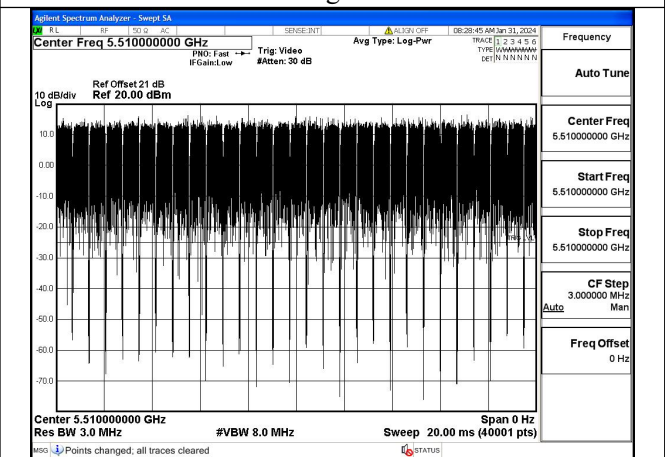


Fig.10

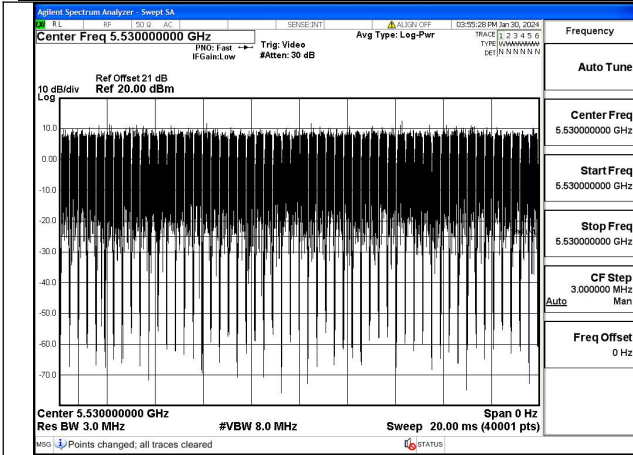


Fig.11

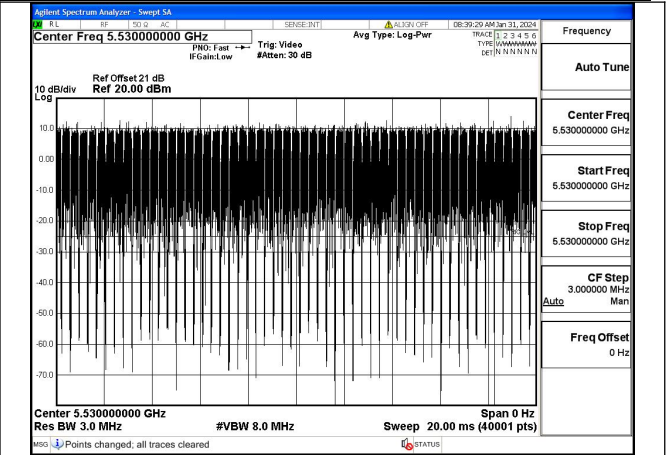


Fig.12

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	15.77	21.03
802.11a	NA	5500	Chain1	15.78	16.57
802.11a	NA	5580	Chain0	15.07	20.33
802.11a	NA	5580	Chain1	15.11	15.90
802.11a	NA	5700	Chain0	13.93	19.19
802.11a	NA	5700	Chain1	14.17	14.96
802.11n HT20	NA	5500	Chain0	14.43	19.69
802.11n HT20	NA	5500	Chain1	14.27	15.06
802.11n HT20	NA	5500	MIMO	17.36	20.94
802.11n HT20	NA	5580	Chain0	13.83	19.09
802.11n HT20	NA	5580	Chain1	13.88	14.67
802.11n HT20	NA	5580	MIMO	16.87	20.45
802.11n HT20	NA	5700	Chain0	12.71	17.97
802.11n HT20	NA	5700	Chain1	14.06	14.85
802.11n HT20	NA	5700	MIMO	16.45	20.03
802.11ac VHT20	NA	5500	Chain0	14.45	19.71
802.11ac VHT20	NA	5500	Chain1	15.51	16.30
802.11ac VHT20	NA	5500	MIMO	18.02	21.60
802.11ac VHT20	NA	5580	Chain0	14.00	19.26
802.11ac VHT20	NA	5580	Chain1	15.14	15.93
802.11ac VHT20	NA	5580	MIMO	17.62	21.20
802.11ac VHT20	NA	5700	Chain0	12.92	18.18
802.11ac VHT20	NA	5700	Chain1	15.33	16.12
802.11ac VHT20	NA	5700	MIMO	17.30	20.88
802.11n HT40	NA	5510	Chain0	14.31	19.57
802.11n HT40	NA	5510	Chain1	14.51	15.30
802.11n HT40	NA	5510	MIMO	17.42	21.00
802.11n HT40	NA	5590	Chain0	13.79	19.05
802.11n HT40	NA	5590	Chain1	14.09	14.88
802.11n HT40	NA	5590	MIMO	16.95	20.53
802.11n HT40	NA	5670	Chain0	12.99	18.25
802.11n HT40	NA	5670	Chain1	15.35	16.14
802.11n HT40	NA	5670	MIMO	17.34	20.92
802.11ac VHT40	NA	5510	Chain0	14.38	19.64
802.11ac VHT40	NA	5510	Chain1	15.67	16.46
802.11ac VHT40	NA	5510	MIMO	18.08	21.66
802.11ac VHT40	NA	5590	Chain0	13.90	19.16
802.11ac VHT40	NA	5590	Chain1	15.30	16.09
802.11ac VHT40	NA	5590	MIMO	17.67	21.25
802.11ac VHT40	NA	5670	Chain0	13.25	18.51
802.11ac VHT40	NA	5670	Chain1	15.57	16.36
802.11ac VHT40	NA	5670	MIMO	17.57	21.15

802.11ac VHT80	NA	5530	Chain0	14.09	19.35
802.11ac VHT80	NA	5530	Chain1	15.22	16.01
802.11ac VHT80	NA	5530	MIMO	17.70	21.28
802.11ac VHT80	NA	5610	Chain0	13.76	19.02
802.11ac VHT80	NA	5610	Chain1	15.29	16.08
802.11ac VHT80	NA	5610	MIMO	17.60	21.18

Emission Bandwidth

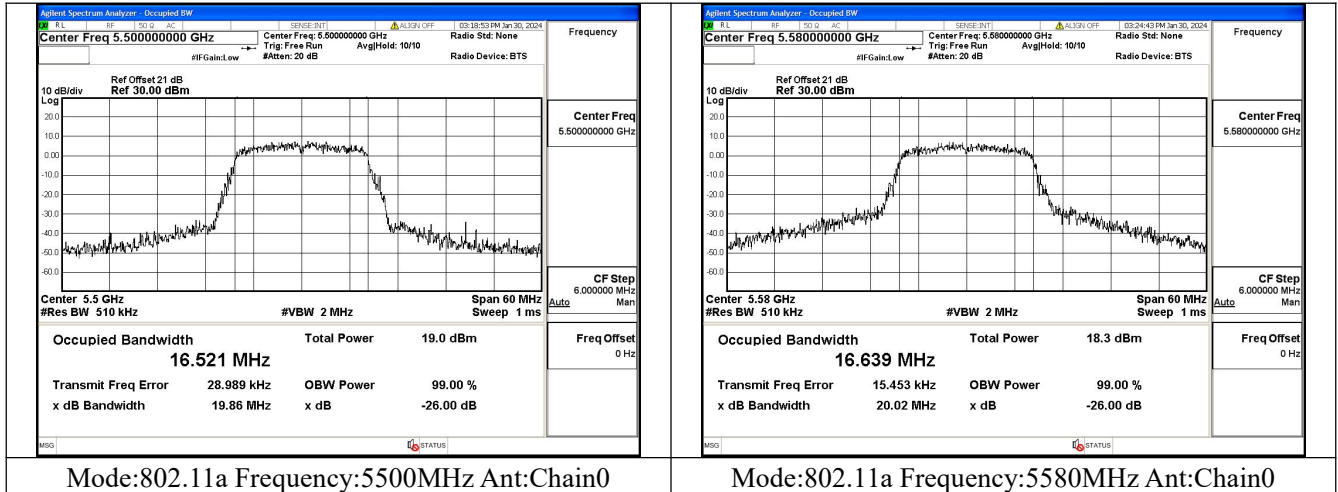
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

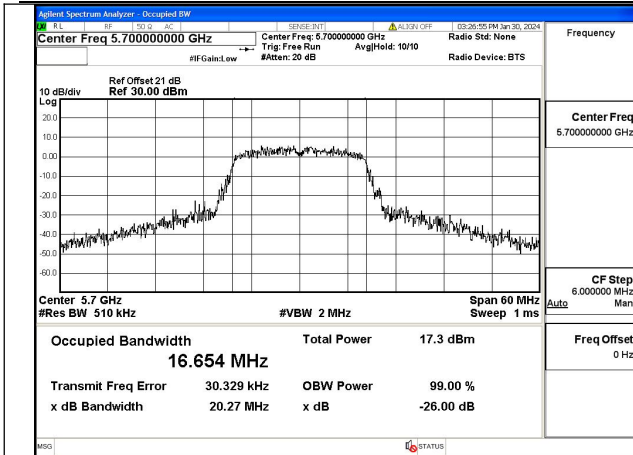
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	19.86	20.02	20.27
802.11a	Chain1	20.11	20.36	20.17
802.11n HT20	Chain0	20.09	20.01	20.10
802.11n HT20	Chain1	20.24	20.65	20.63
802.11ac VHT20	Chain0	20.17	20.21	19.74
802.11ac VHT20	Chain1	20.35	24.75	28.69

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	39.85	40.95	40.87
802.11n HT40	Chain1	40.11	41.59	40.48
802.11ac VHT40	Chain0	39.99	40.38	40.31
802.11ac VHT40	Chain1	40.80	40.57	40.66

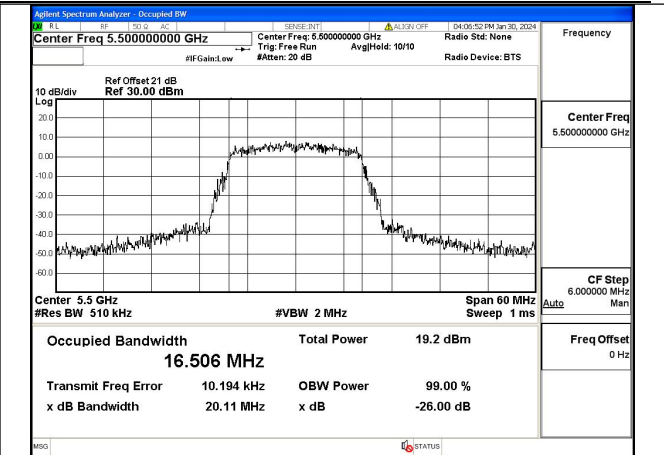
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	81.02	---	80.80
802.11ac VHT80	Chain1	81.02	---	82.09

Test Mode: 802.11a

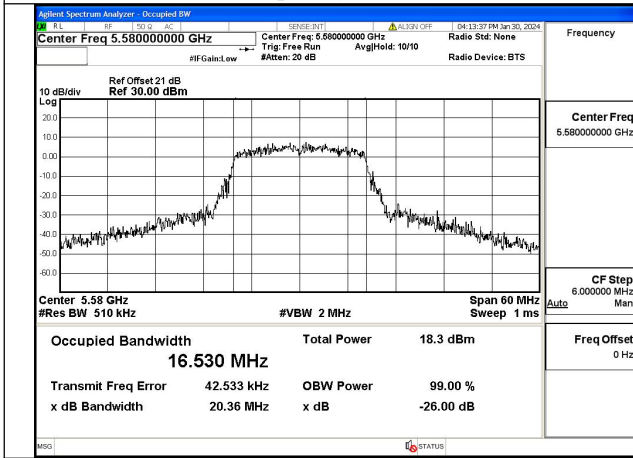




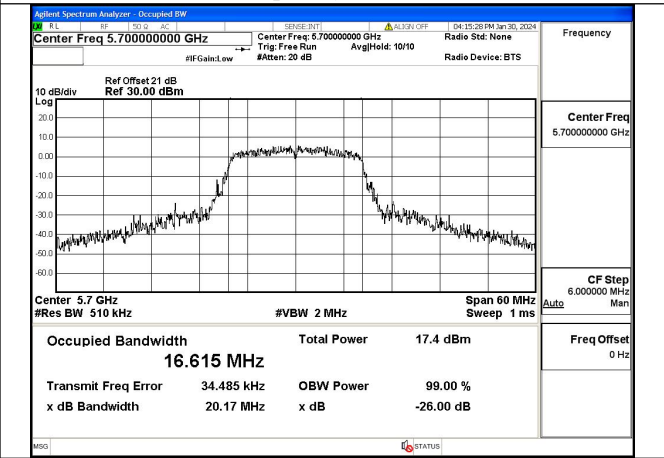
Mode:802.11a Frequency:5700MHz Ant:Chain0



Mode:802.11a Frequency:5500MHz Ant:Chain1

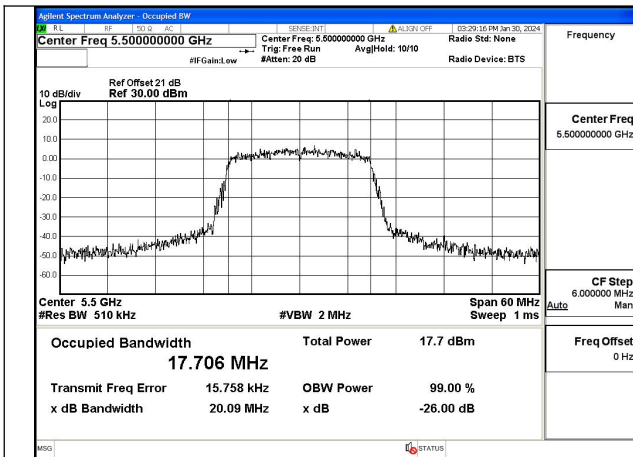


Mode:802.11a Frequency:5580MHz Ant:Chain1

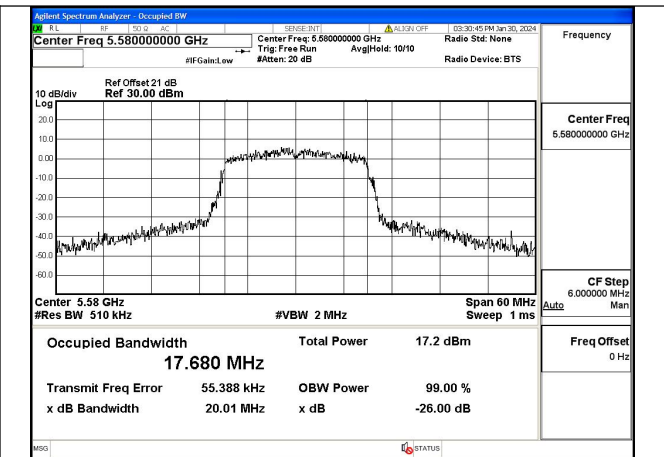


Mode:802.11a Frequency:5700MHz Ant:Chain1

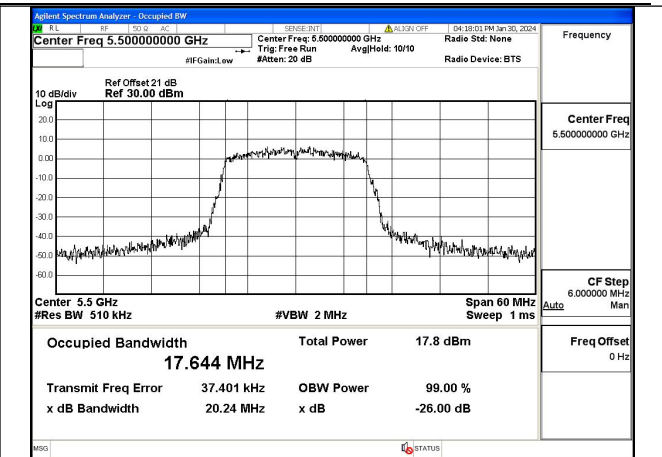
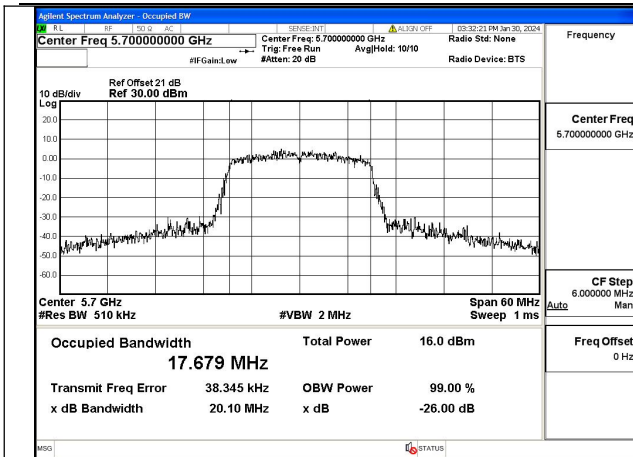
Test Mode: 802.11n HT20



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

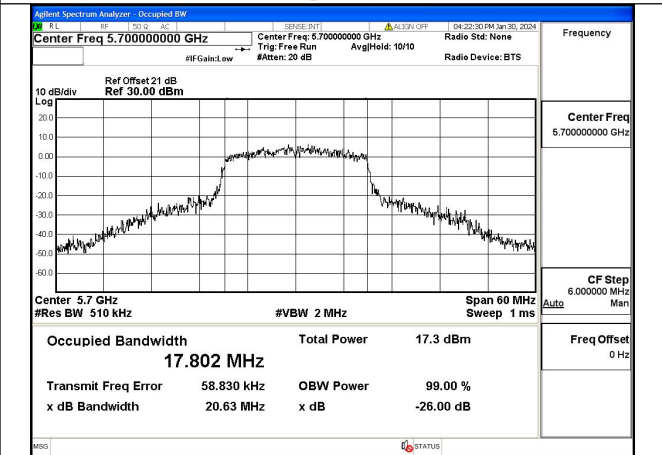
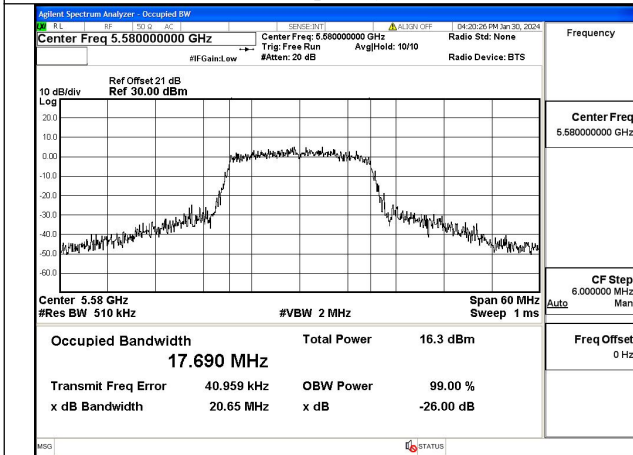


Mode:802.11n HT20 Frequency:5580MHz Ant:Chain0



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

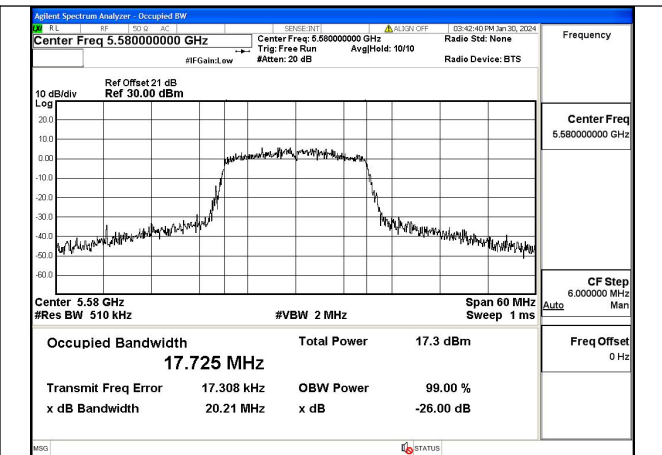
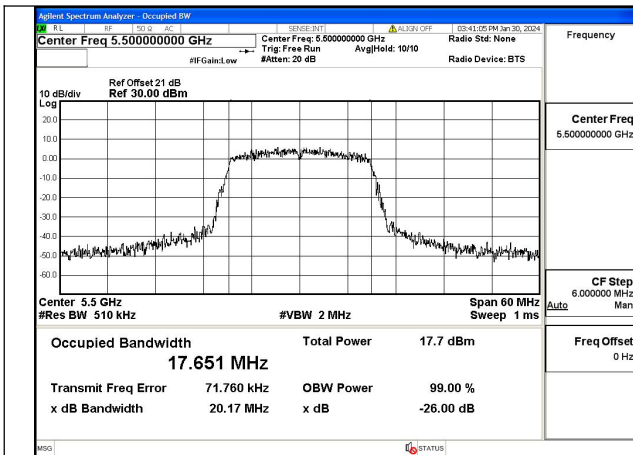
Mode:802.11n HT20 Frequency:5500MHz Ant:Chain1



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

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

Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5500MHz
Ant:Chain0

Mode:802.11ac VHT20 Frequency:5580MHz
Ant:Chain0

