

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	98.49%	0	Fig.1
802.11a	5745	98.55%	0	Fig.2
802.11n HT20	5745	98.43%	0	Fig.3
802.11n HT20	5745	98.48%	0	Fig.4
802.11ac VHT20	5745	98.46%	0	Fig.5
802.11ac VHT20	5745	98.45%	0	Fig.6
802.11n HT40	5755	97.54%	0.11	Fig.7
802.11n HT40	5755	97.48%	0.11	Fig.8
802.11ac VHT40	5755	97.56%	0.11	Fig.9
802.11ac VHT40	5755	97.66%	0.10	Fig.10
802.11ac VHT80	5775	96.59%	0.15	Fig.11
802.11ac VHT80	5775	96.54%	0.15	Fig.12

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

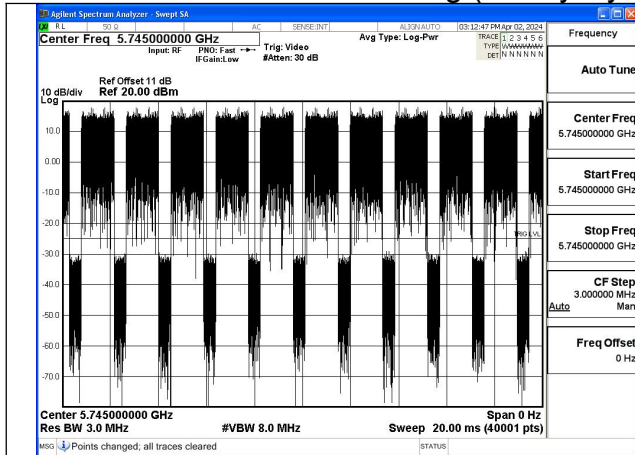


Fig.1

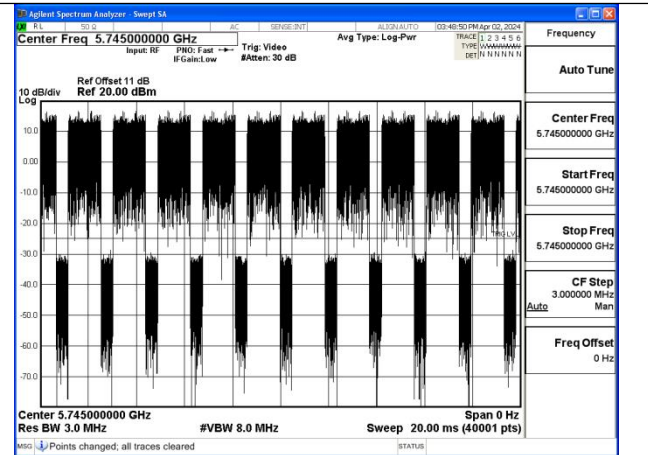


Fig.2

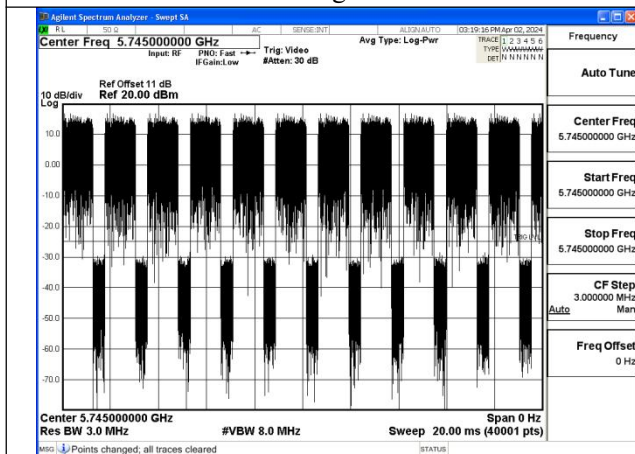


Fig.3

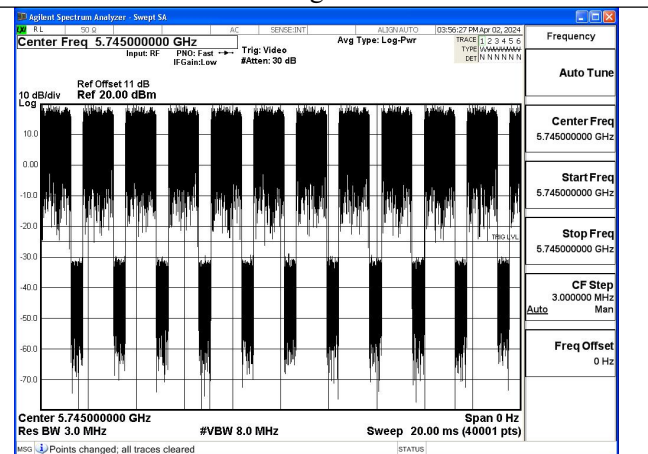


Fig.4

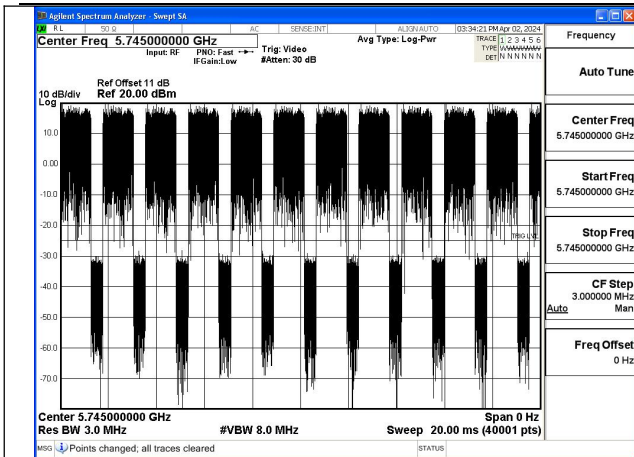


Fig.5

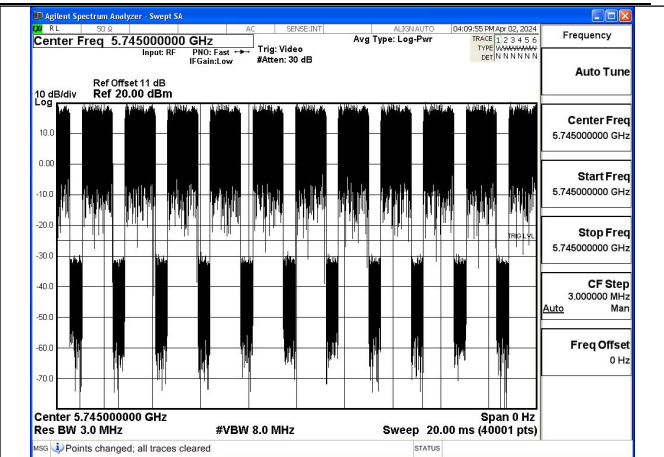


Fig.6

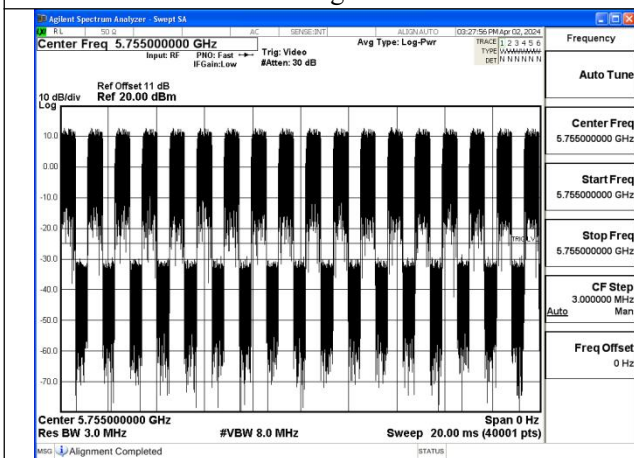


Fig.7

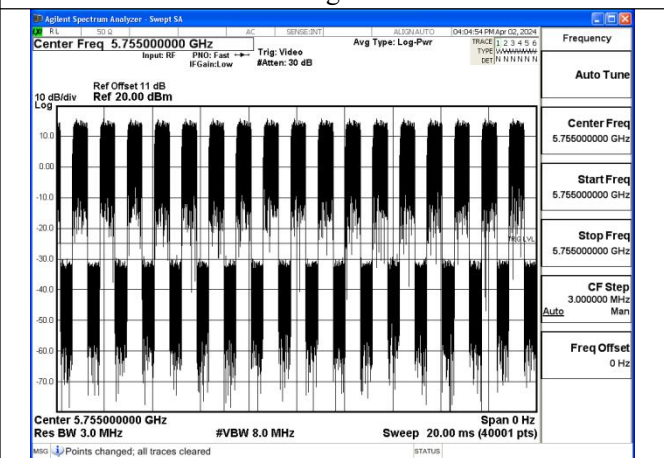


Fig.8

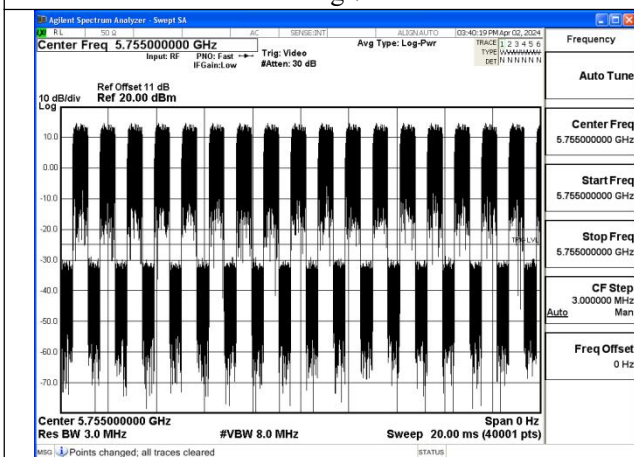


Fig.9

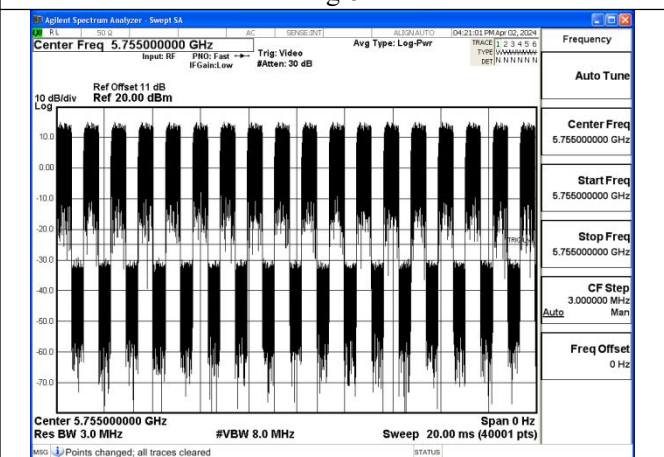


Fig.10

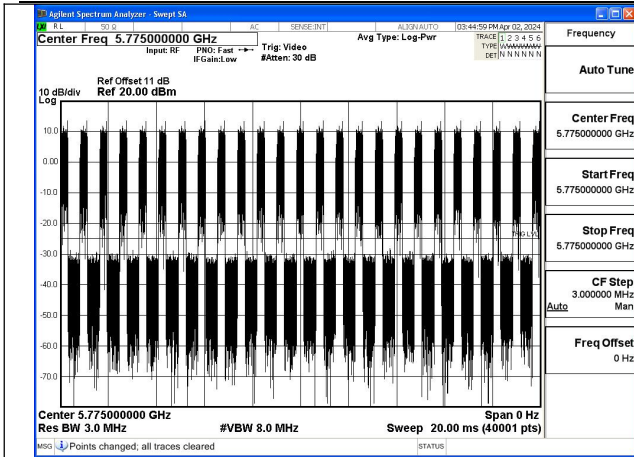


Fig.11

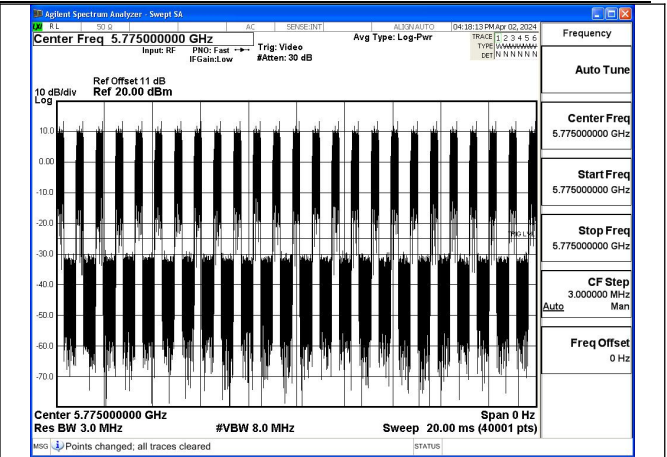


Fig.12

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	13.29	15.10
802.11a	NA	5745	Chain1	13.56	15.37
802.11a	NA	5785	Chain0	12.24	14.05
802.11a	NA	5785	Chain1	13.03	14.84
802.11a	NA	5825	Chain0	12.44	14.25
802.11a	NA	5825	Chain1	13.19	15.00
802.11n HT20	NA	5745	Chain0	12.29	14.10
802.11n HT20	NA	5745	Chain1	14.41	16.22
802.11n HT20	NA	5745	MIMO	16.49	18.30
802.11n HT20	NA	5785	Chain0	13.88	15.69
802.11n HT20	NA	5785	Chain1	13.95	15.76
802.11n HT20	NA	5785	MIMO	16.93	18.74
802.11n HT20	NA	5825	Chain0	12.89	14.70
802.11n HT20	NA	5825	Chain1	14.09	15.90
802.11n HT20	NA	5825	MIMO	16.54	18.35
802.11ac VHT20	NA	5745	Chain0	14.89	16.70
802.11ac VHT20	NA	5745	Chain1	14.57	16.38
802.11ac VHT20	NA	5745	MIMO	17.74	19.55
802.11ac VHT20	NA	5785	Chain0	13.80	15.61
802.11ac VHT20	NA	5785	Chain1	14.81	16.62
802.11ac VHT20	NA	5785	MIMO	17.34	19.15
802.11ac VHT20	NA	5825	Chain0	14.24	16.05
802.11ac VHT20	NA	5825	Chain1	13.88	15.69
802.11ac VHT20	NA	5825	MIMO	17.07	18.88
802.11n HT40	NA	5755	Chain0	13.84	15.65
802.11n HT40	NA	5755	Chain1	14.67	16.48
802.11n HT40	NA	5755	MIMO	17.29	19.10
802.11n HT40	NA	5795	Chain0	13.96	15.77
802.11n HT40	NA	5795	Chain1	14.57	16.38
802.11n HT40	NA	5795	MIMO	17.29	19.10
802.11ac VHT40	NA	5755	Chain0	13.47	15.28
802.11ac VHT40	NA	5755	Chain1	13.75	15.56
802.11ac VHT40	NA	5755	MIMO	16.62	18.43
802.11ac VHT40	NA	5795	Chain0	13.65	15.46
802.11ac VHT40	NA	5795	Chain1	13.45	15.26
802.11ac VHT40	NA	5795	MIMO	16.56	18.37
802.11ac VHT80	NA	5775	Chain0	12.06	13.87
802.11ac VHT80	NA	5775	Chain1	12.02	13.83
802.11ac VHT80	NA	5775	MIMO	15.05	16.86

Emission Bandwidth

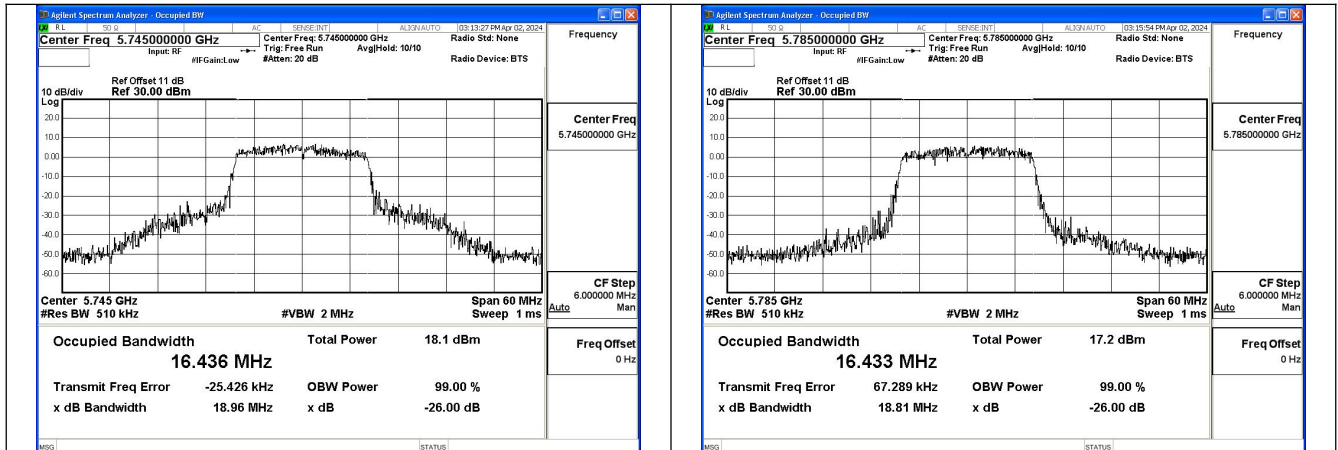
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	18.96	18.81	18.16
802.11a	Chain1	18.26	18.47	18.24
802.11n HT20	Chain0	19.35	19.51	19.34
802.11n HT20	Chain1	19.45	19.48	19.40
802.11ac VHT20	Chain0	19.07	19.32	19.17
802.11ac VHT20	Chain1	19.41	19.27	19.31

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	47.68	---	48.64
802.11n HT40	Chain1	39.38	---	39.30
802.11ac VHT40	Chain0	38.56	---	38.82
802.11ac VHT40	Chain1	46.86	---	38.29

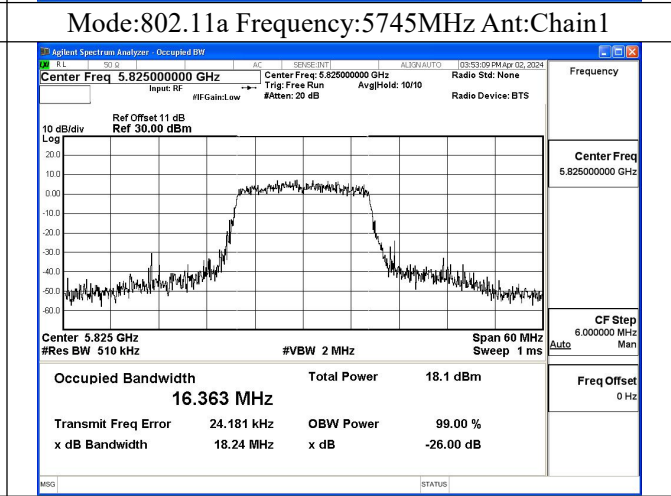
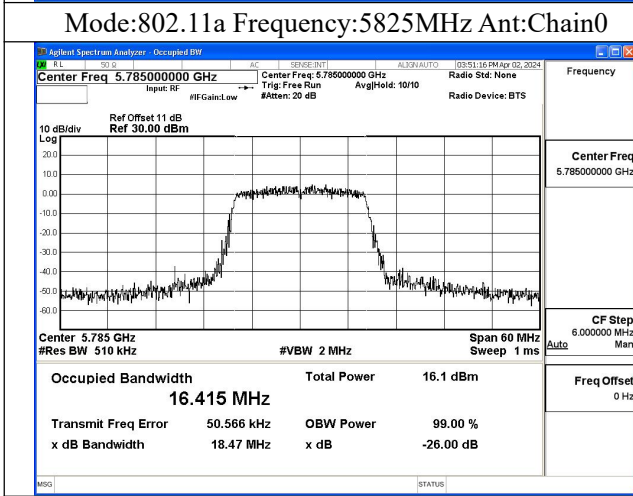
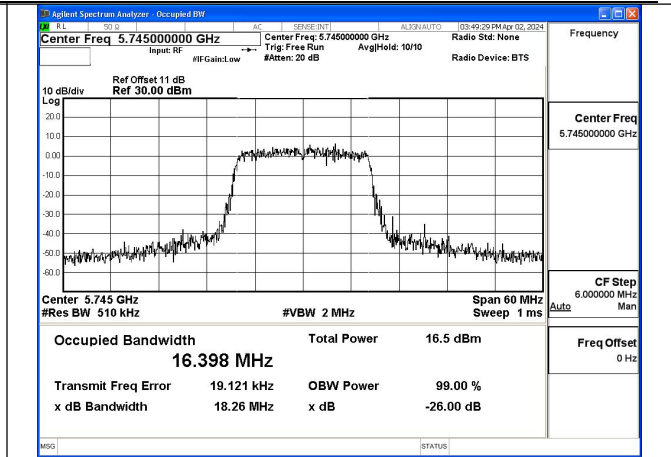
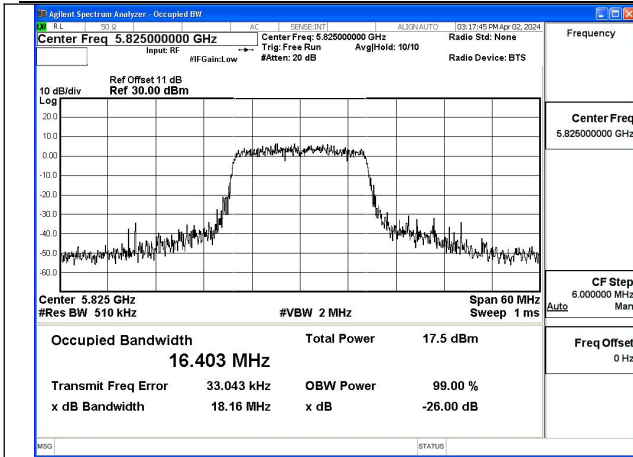
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	80.86	---	---
802.11ac VHT80	Chain1	80.72	---	---

Test Mode: 802.11a

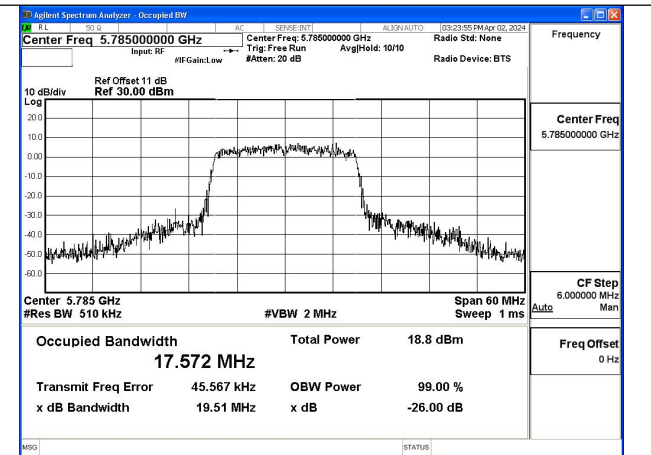
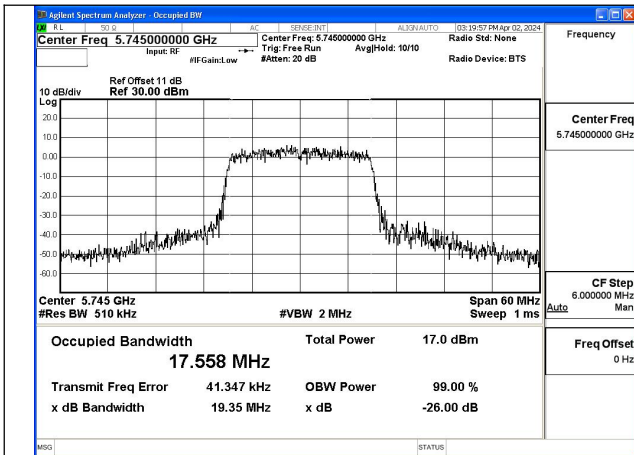


Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0

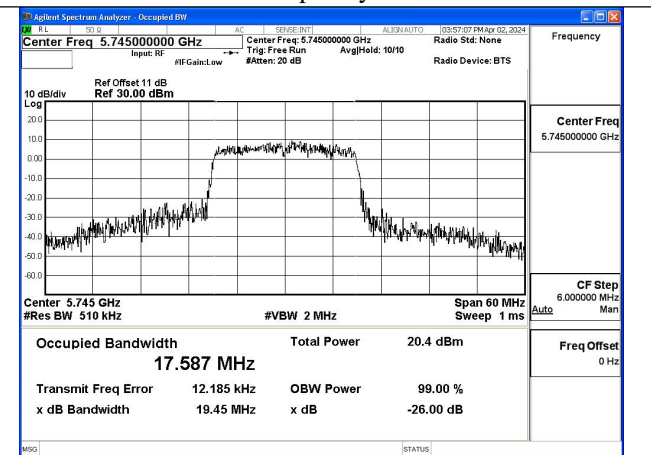
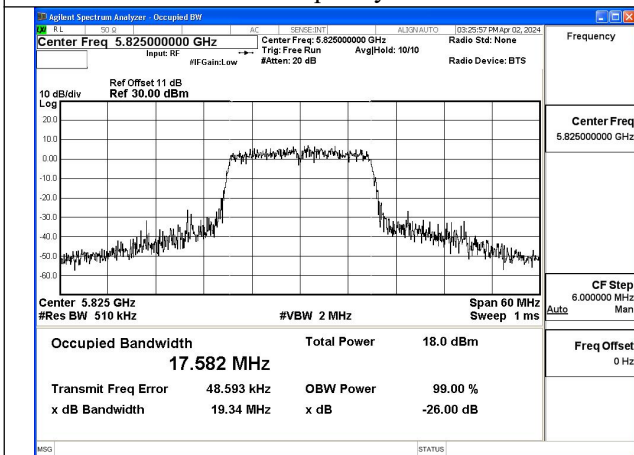


Test Mode: 802.11n HT20



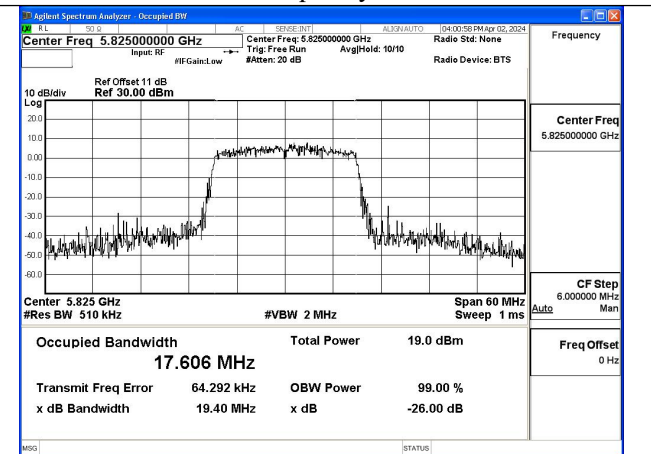
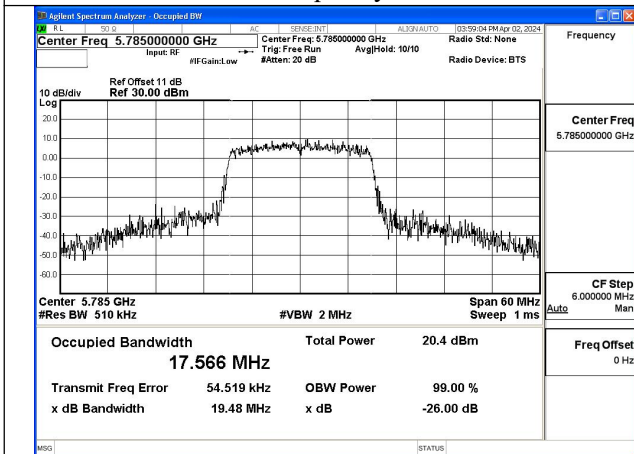
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5785MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

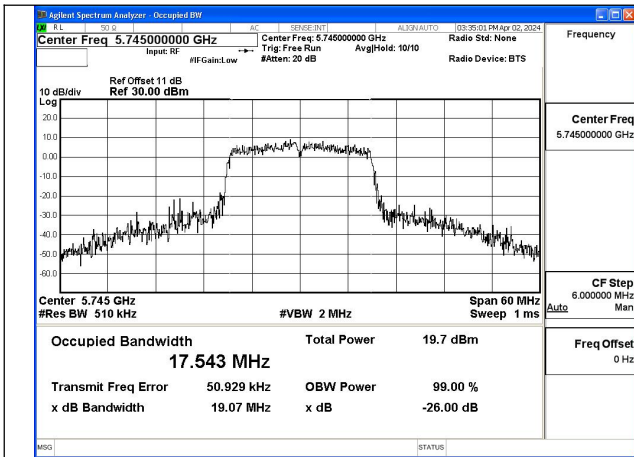
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain1



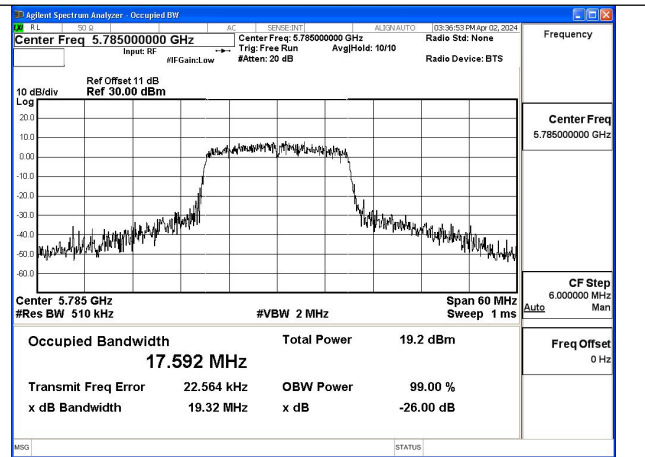
Mode:802.11n HT20 Frequency:5785MHz Ant:Chain1

Mode:802.11n HT20 Frequency:5825MHz Ant:Chain1

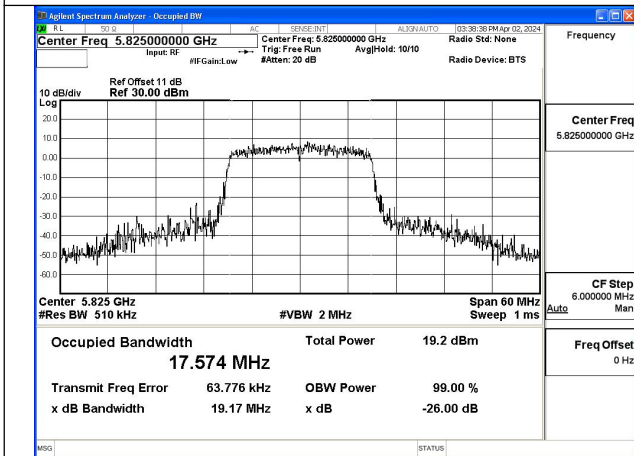
Test Mode: 802.11ac VHT20



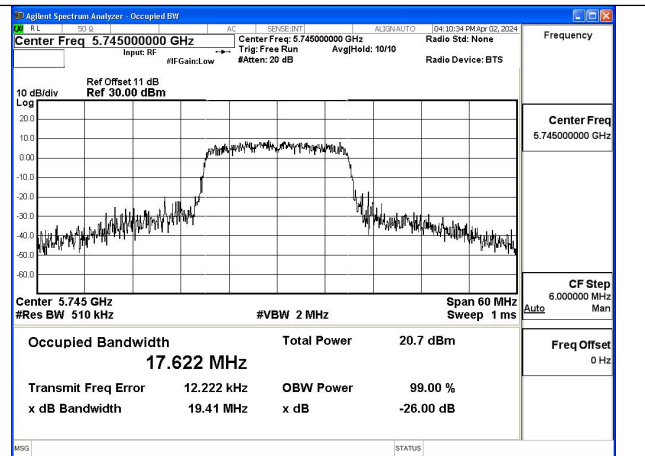
Mode:802.11ac VHT20 Frequency:5745MHz
Ant:Chain0



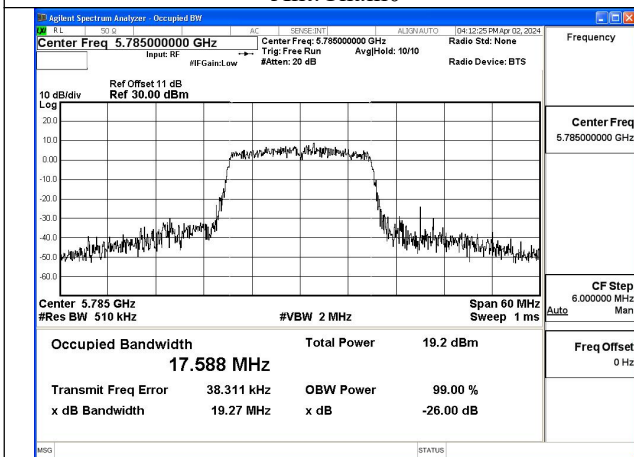
Mode:802.11ac VHT20 Frequency:5785MHz
Ant:Chain0



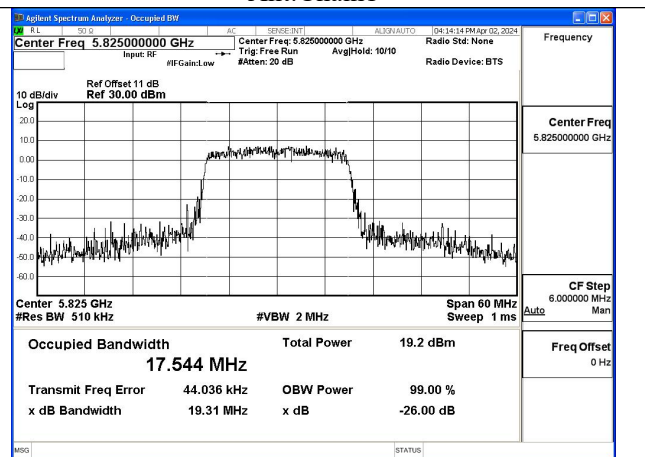
Mode:802.11ac VHT20 Frequency:5825MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5745MHz
Ant:Chain1

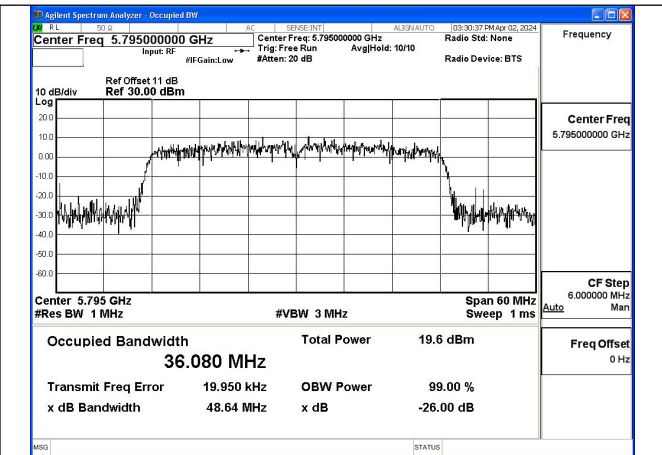
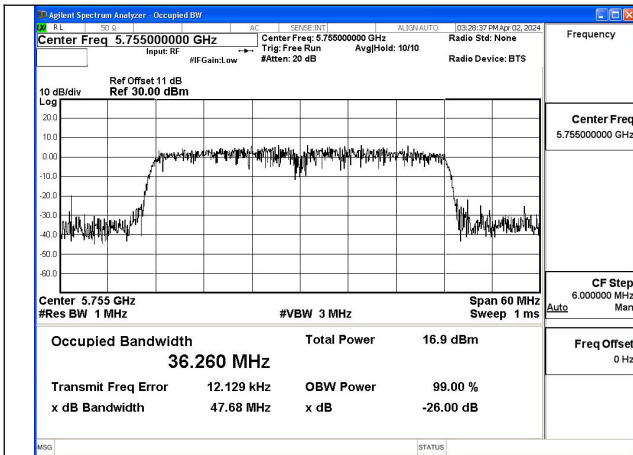


Mode:802.11ac VHT20 Frequency:5785MHz
Ant:Chain1



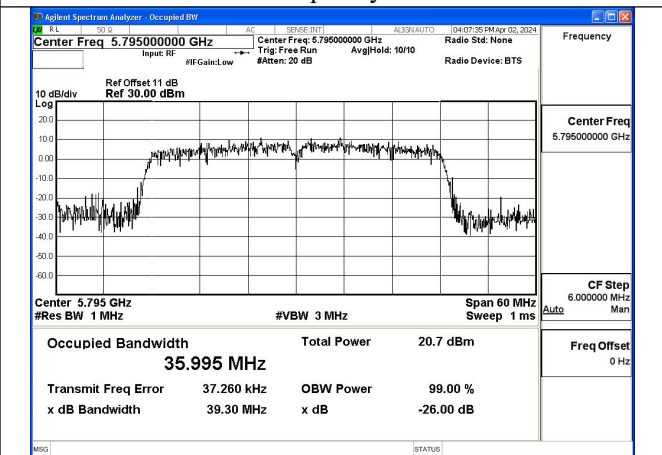
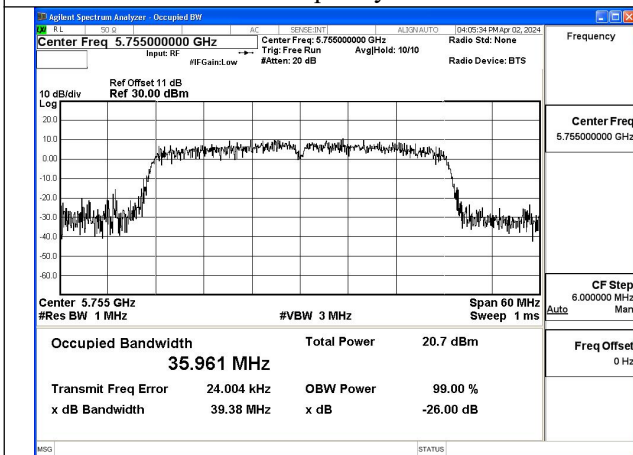
Mode:802.11ac VHT20 Frequency:5825MHz
Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

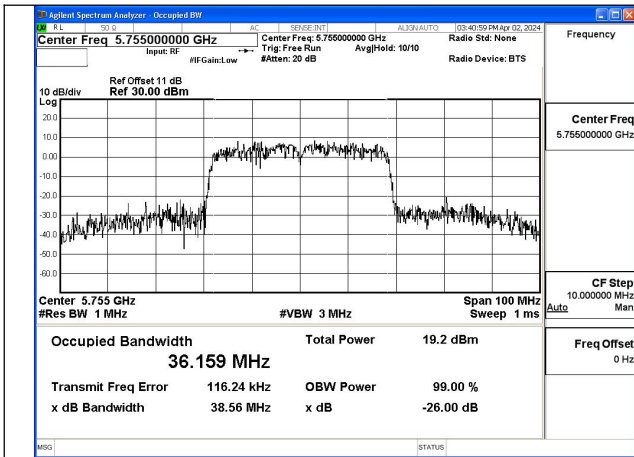
Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0



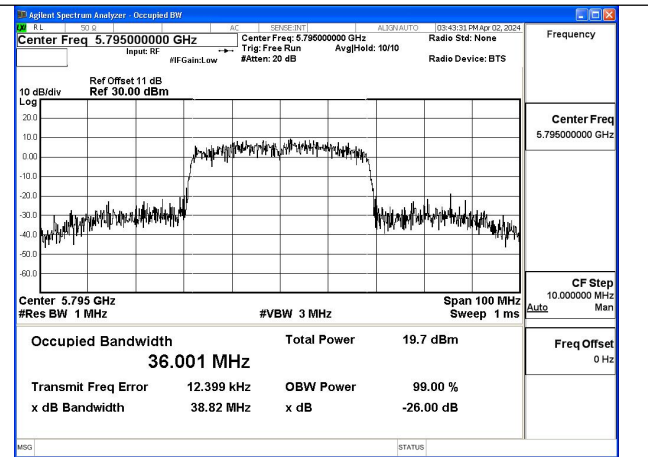
Mode:802.11n HT40 Frequency:5755MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5795MHz Ant:Chain1

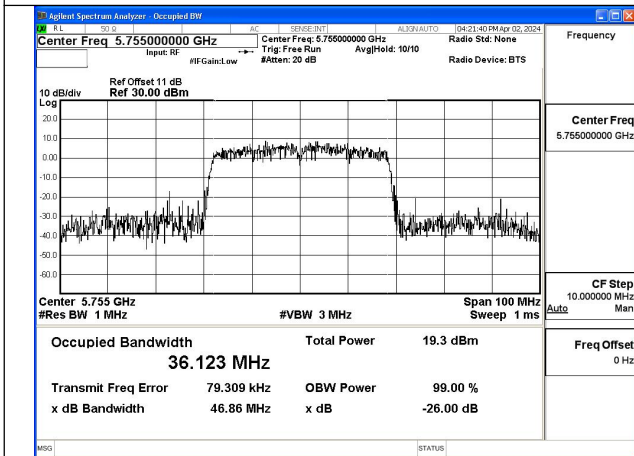
Test Mode: 802.11ac VHT40



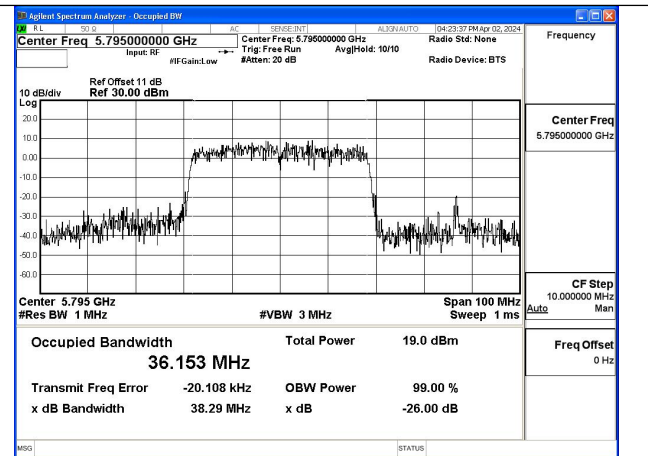
Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5795MHz
Ant:Chain0

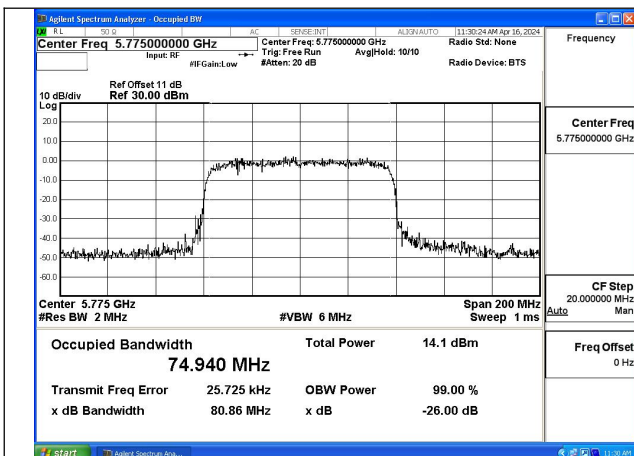


Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain1

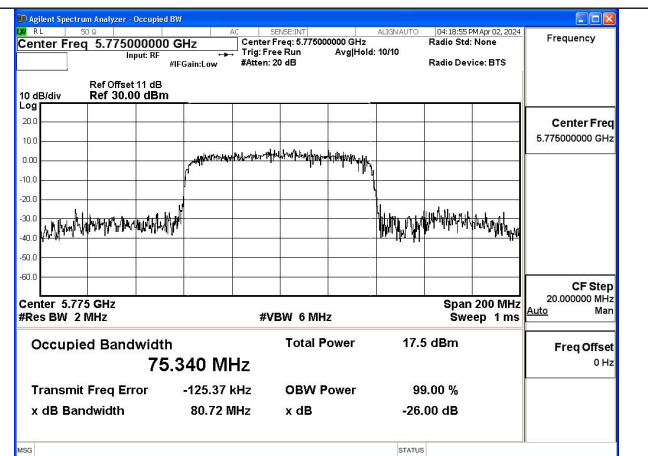


Mode:802.11ac VHT40 Frequency:5795MHz
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5775MHz
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5775MHz
Ant:Chain1

Occupied Bandwidth

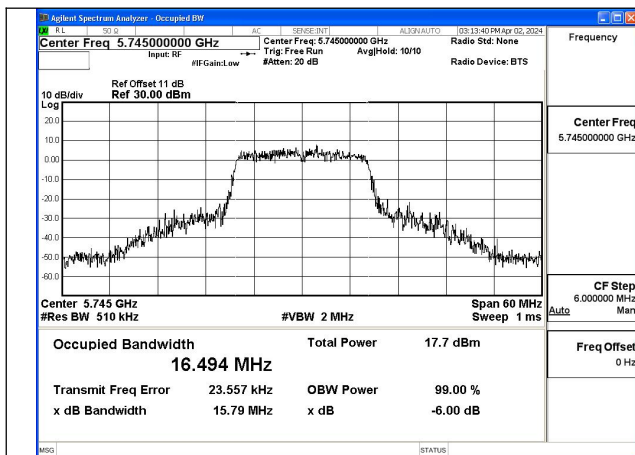
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.494	16.410	16.398
802.11a	Chain1	16.433	16.438	16.390
802.11n HT20	Chain0	17.592	17.621	17.592
802.11n HT20	Chain1	17.612	17.598	17.588
802.11ac VHT20	Chain0	17.605	17.551	17.503
802.11ac VHT20	Chain1	17.532	17.626	17.585

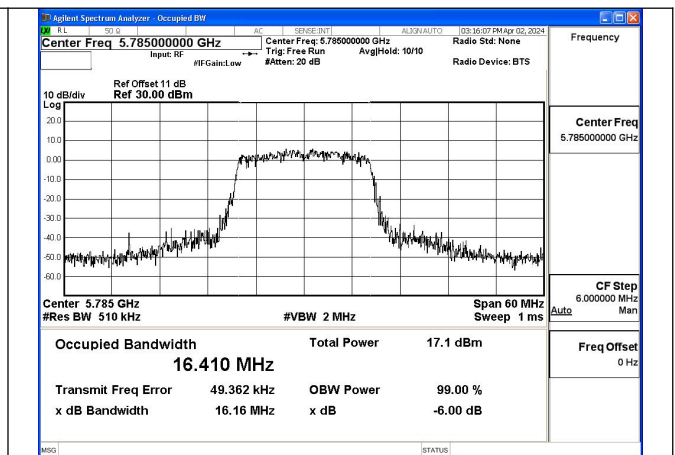
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.064	---	36.068
802.11n HT40	Chain1	36.100	---	35.989
802.11ac VHT40	Chain0	36.080	---	36.042
802.11ac VHT40	Chain1	36.004	---	36.031

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	75.603	---	---
802.11ac VHT80	Chain1	75.553	---	---

Test Mode: 802.11a



Mode:802.11a Frequency:5745MHz Ant:Chain0



Mode:802.11a Frequency:5785MHz Ant:Chain0