

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	99.96%	0	Fig.1
802.11n HT20	5745	99.93%	0	Fig.2
802.11ac VHT20	5745	99.95%	0	Fig.3
802.11n HT40	5755	99.90%	0	Fig.4
802.11ac VHT40	5755	99.93%	0	Fig.5
802.11ac VHT80	5775	99.82%	0	Fig.6

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

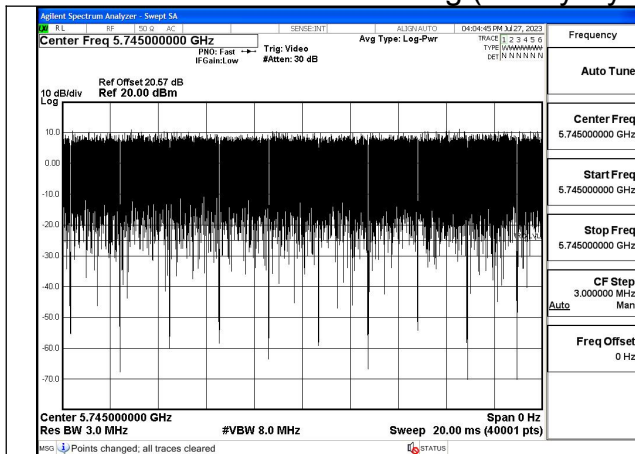


Fig.1

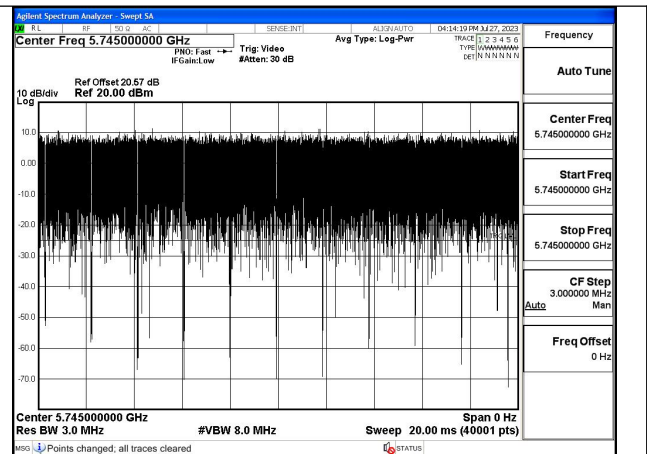


Fig.2

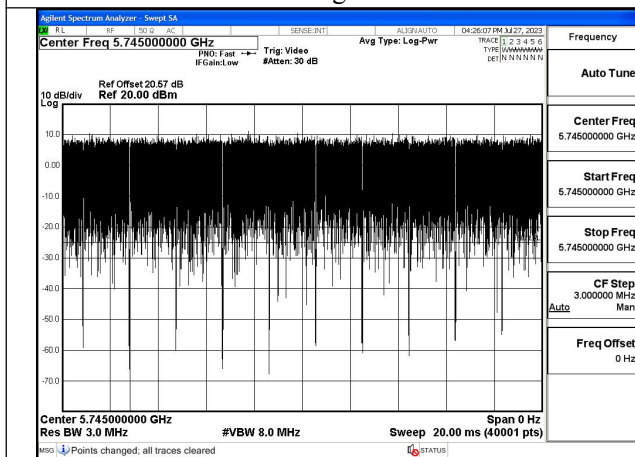


Fig.3

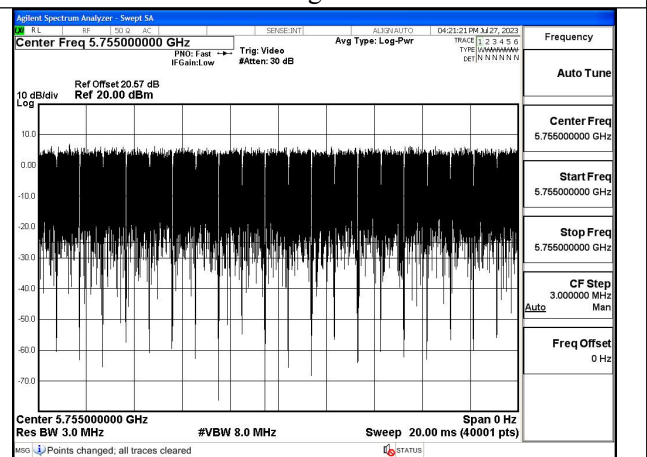


Fig.4

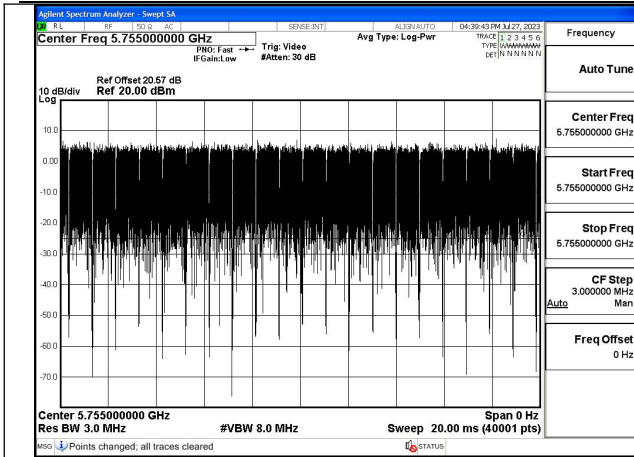


Fig.5

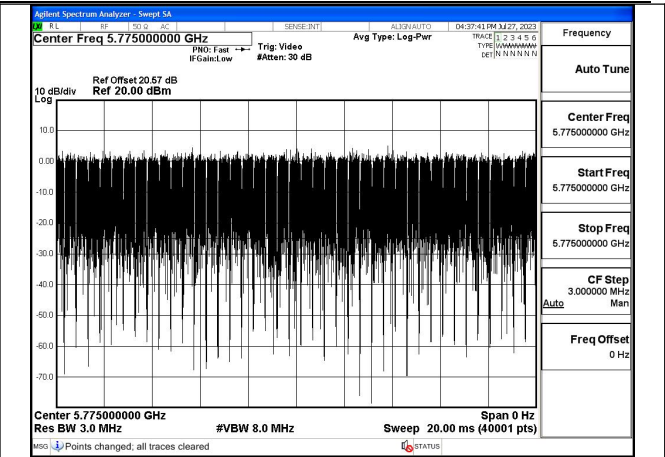


Fig.6

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	11.46	10.66
802.11a	NA	5785	Chain0	11.76	10.96
802.11a	NA	5825	Chain0	11.60	10.80
802.11n HT20	NA	5745	Chain0	10.72	9.92
802.11n HT20	NA	5785	Chain0	11.07	10.27
802.11n HT20	NA	5825	Chain0	10.83	10.03
802.11ac VHT20	NA	5745	Chain0	10.68	9.88
802.11ac VHT20	NA	5785	Chain0	11.04	10.24
802.11ac VHT20	NA	5825	Chain0	10.79	9.99
802.11n HT40	NA	5755	Chain0	10.82	10.02
802.11n HT40	NA	5795	Chain0	11.03	10.23
802.11ac VHT40	NA	5755	Chain0	10.72	9.92
802.11ac VHT40	NA	5795	Chain0	10.93	10.13
802.11ac VHT80	NA	5775	Chain0	10.71	9.91

Emission Bandwidth

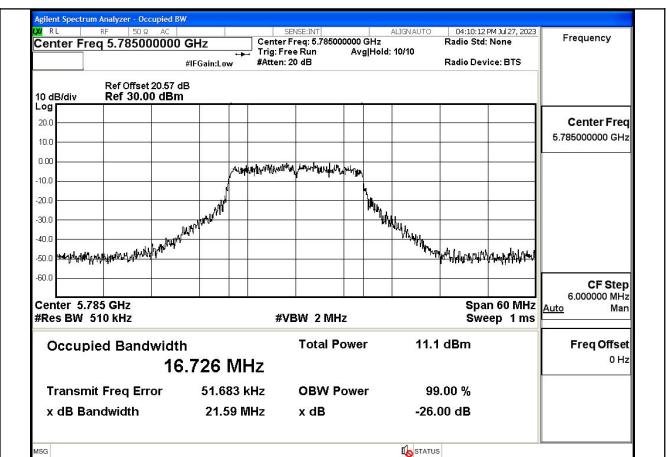
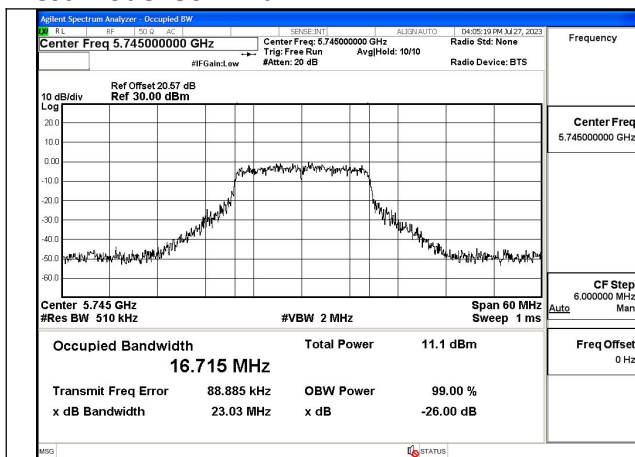
Offset 20.57dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	23.03	21.59	23.11
802.11n HT20	Chain0	23.32	22.83	22.99
802.11ac VHT20	Chain0	23.69	23.23	24.14

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	41.05	---	41.15
802.11ac VHT40	Chain0	41.28	---	40.49

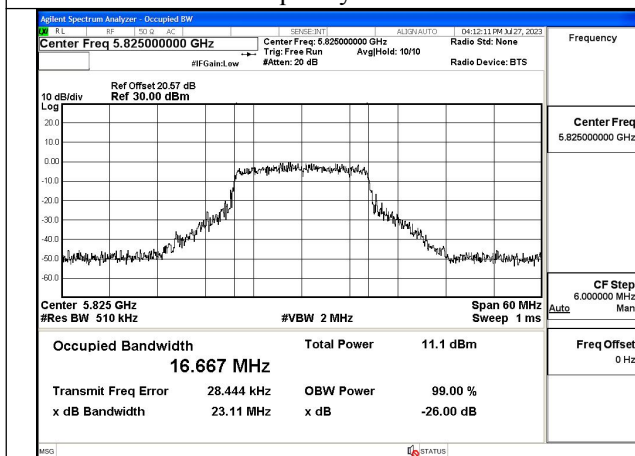
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	82.35	---	---

Test Mode: 802.11a



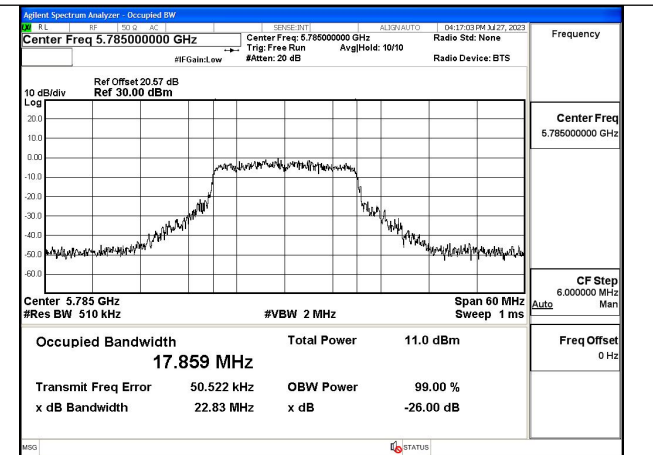
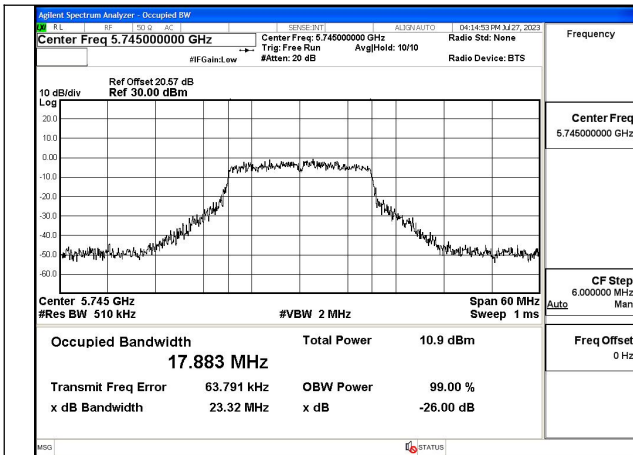
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



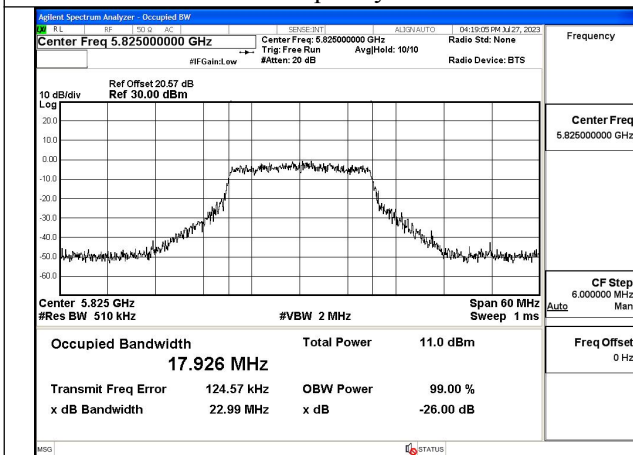
Mode:802.11a Frequency:5825MHz Ant:Chain0

Test Mode: 802.11n HT20



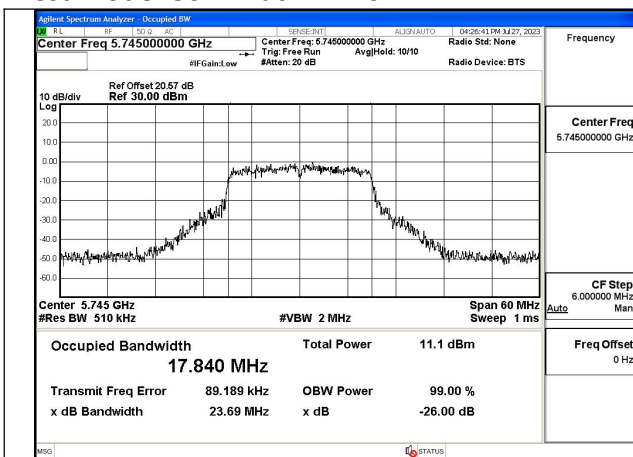
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

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

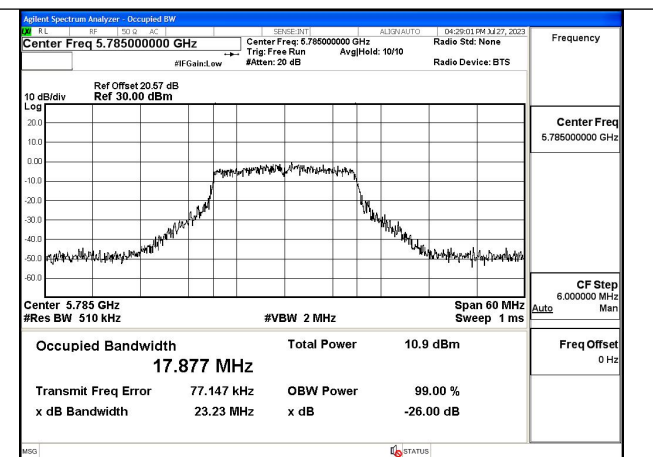


Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

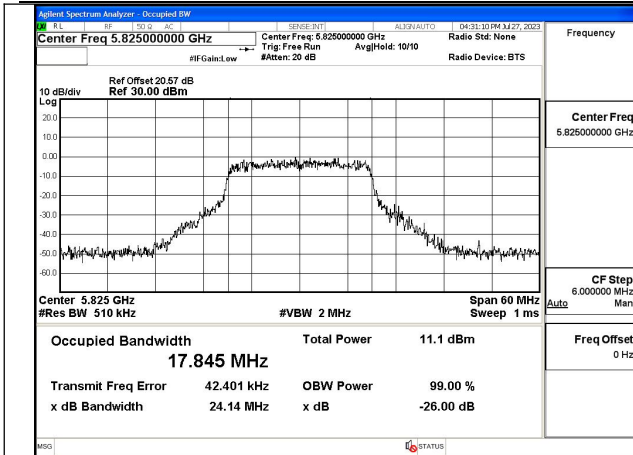
Test Mode: 802.11ac VHT20



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

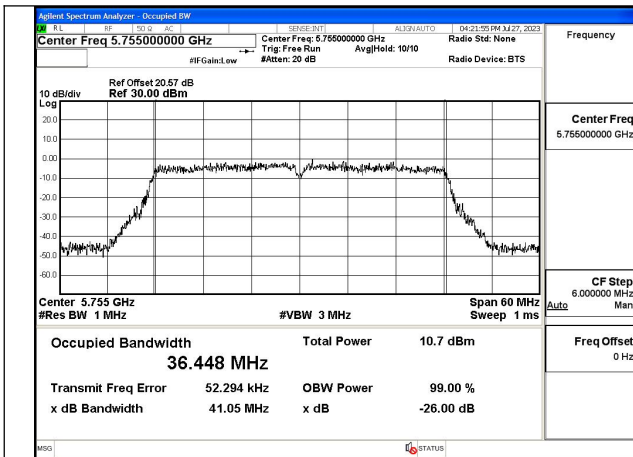


Mode:802.11ac VHT20 Frequency:5785MHz
Ant:Chain0

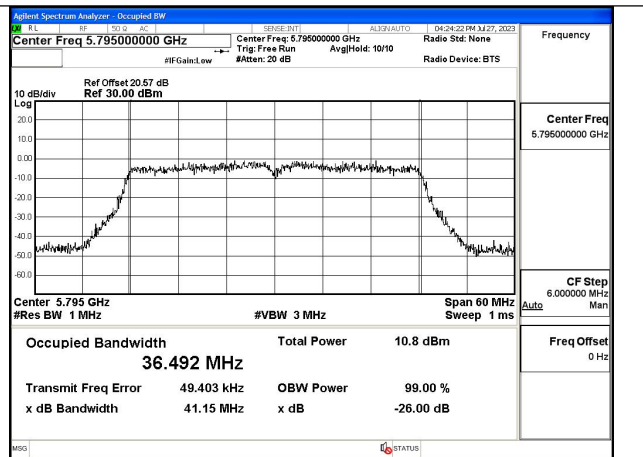


Mode:802.11ac VHT20 Frequency:5825MHz
Ant:Chain0

Test Mode: 802.11n HT40

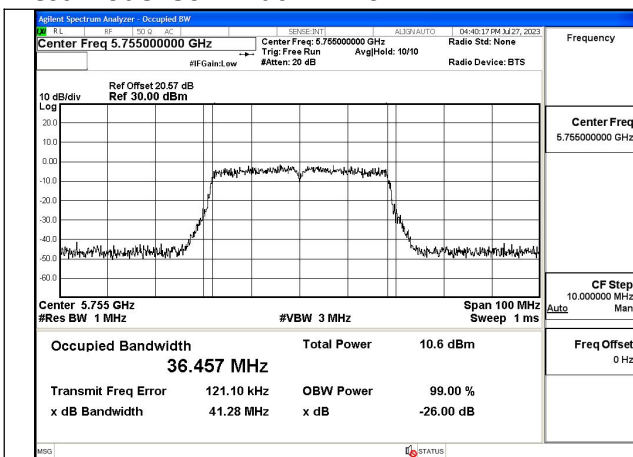


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

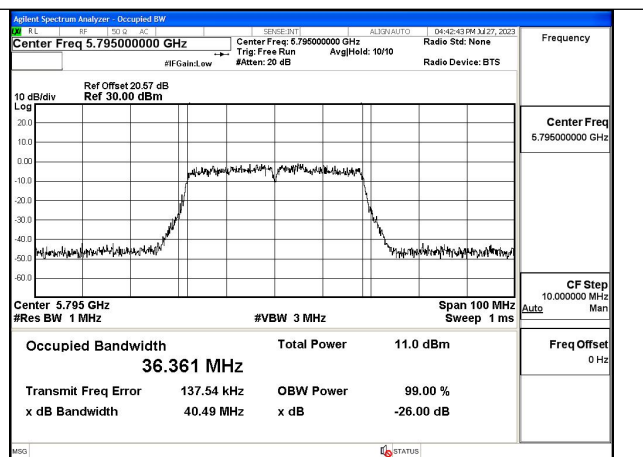


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

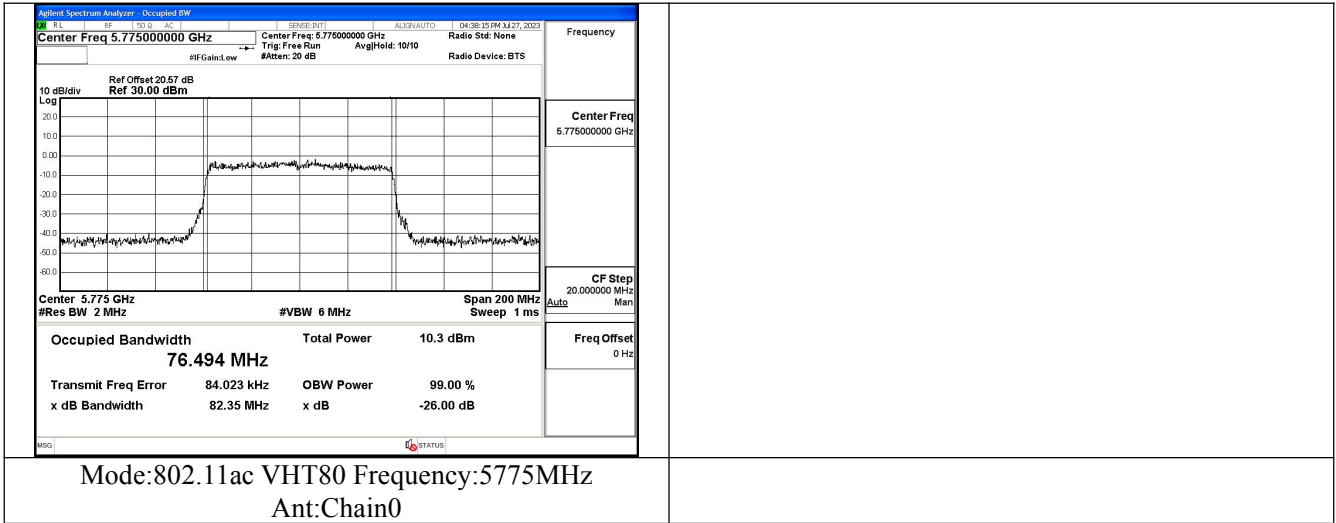


Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain0



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

Test Mode: 802.11ac VHT80



Occupied Bandwidth

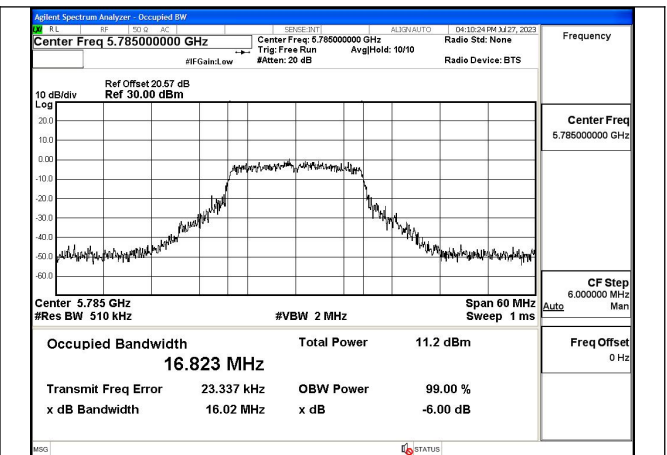
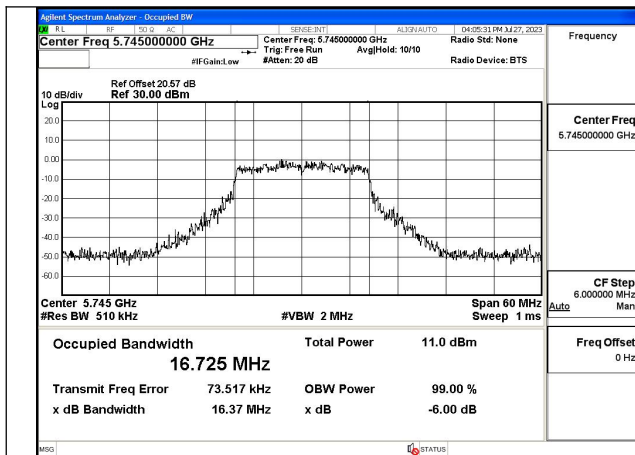
Offset 20.57dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.725	16.823	16.800
802.11n HT20	Chain0	17.907	18.045	17.941
802.11ac VHT20	Chain0	17.837	17.917	17.811

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.565	---	36.409
802.11ac VHT40	Chain0	36.462	---	36.499

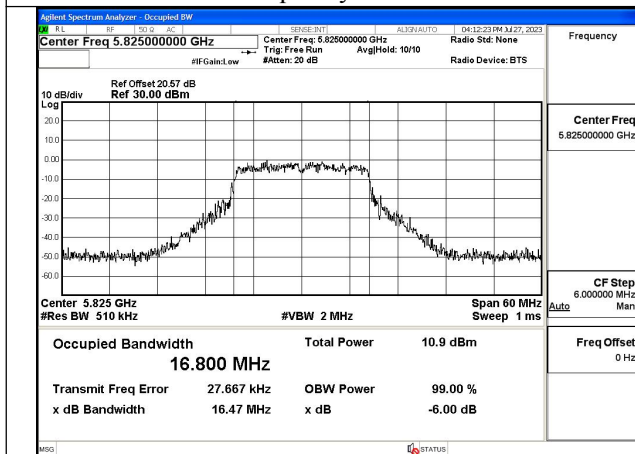
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	76.283	---	---

Test Mode: 802.11a



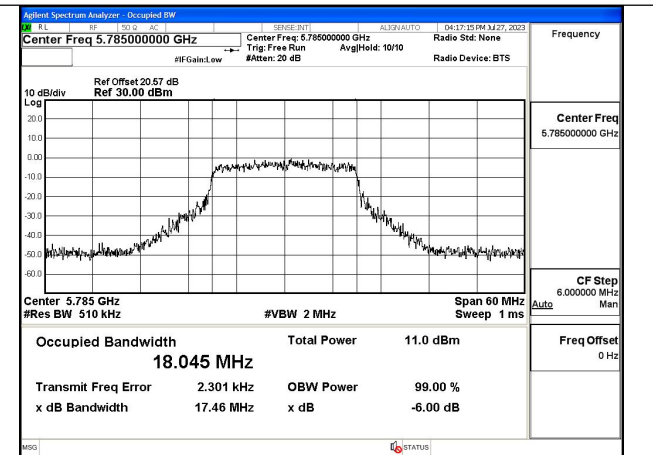
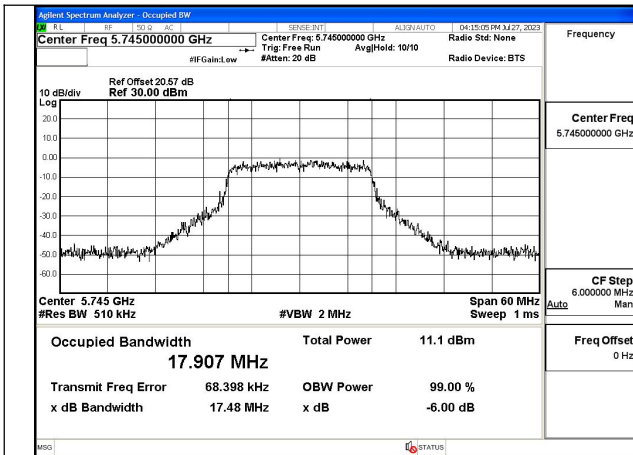
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



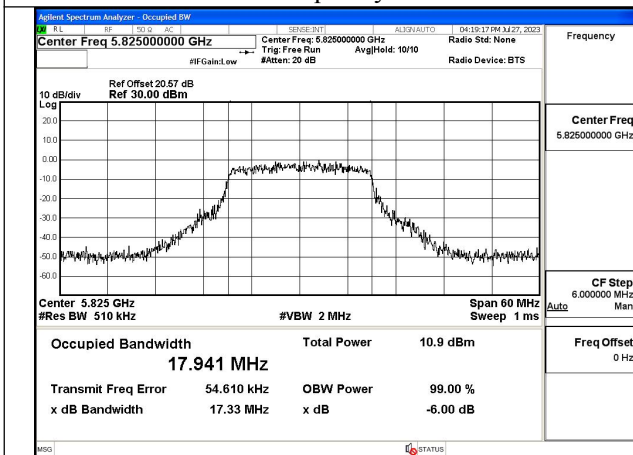
Mode:802.11a Frequency:5825MHz Ant:Chain0

Test Mode: 802.11n HT20



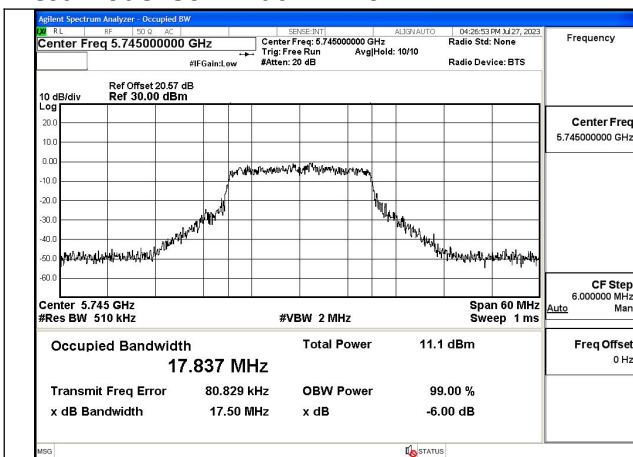
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

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

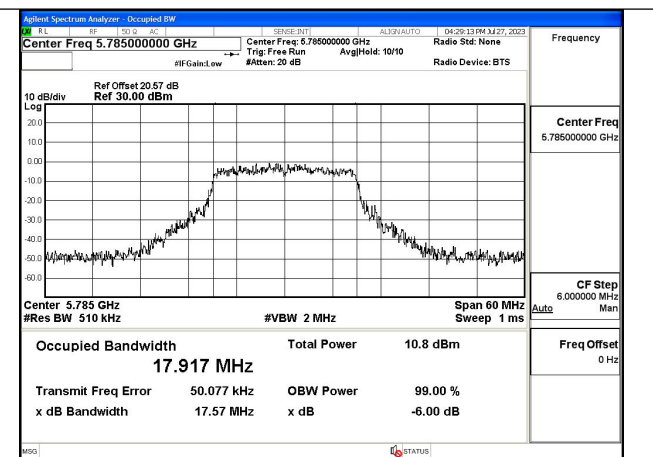


Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

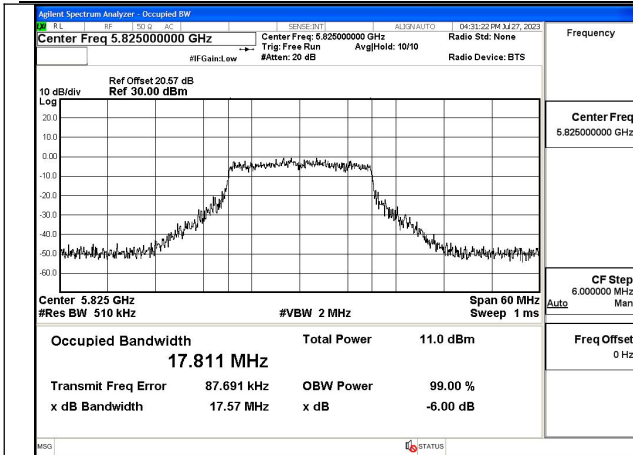
Test Mode: 802.11ac VHT20



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

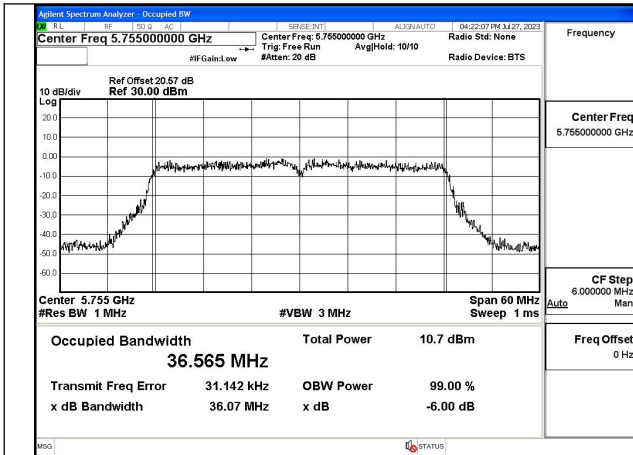


Mode:802.11ac VHT20 Frequency:5785MHz
Ant:Chain0

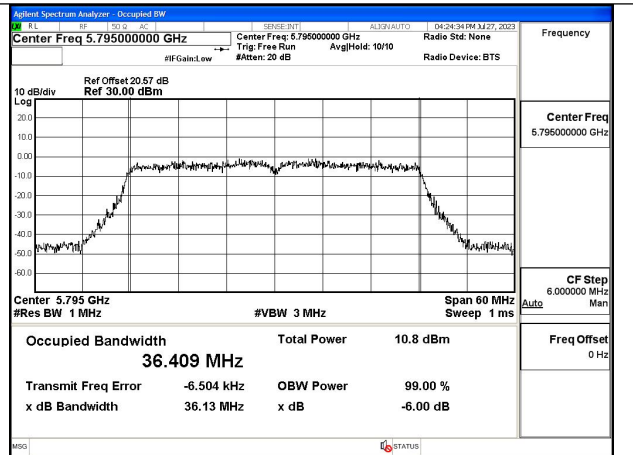


Mode:802.11ac VHT20 Frequency:5825MHz
Ant:Chain0

Test Mode: 802.11n HT40

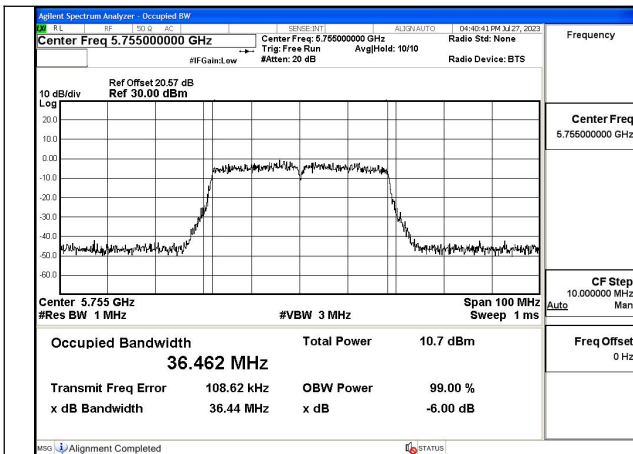


Mode:802.11n HT40 Frequency:5755MHz Ant:Chain0

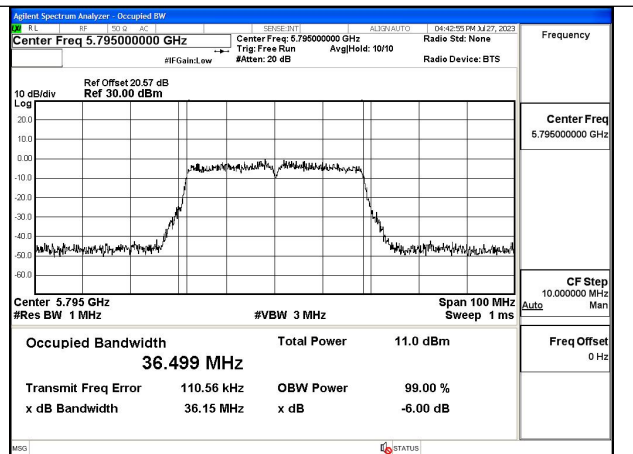


Mode:802.11n HT40 Frequency:5795MHz Ant:Chain0

Test Mode: 802.11ac VHT40

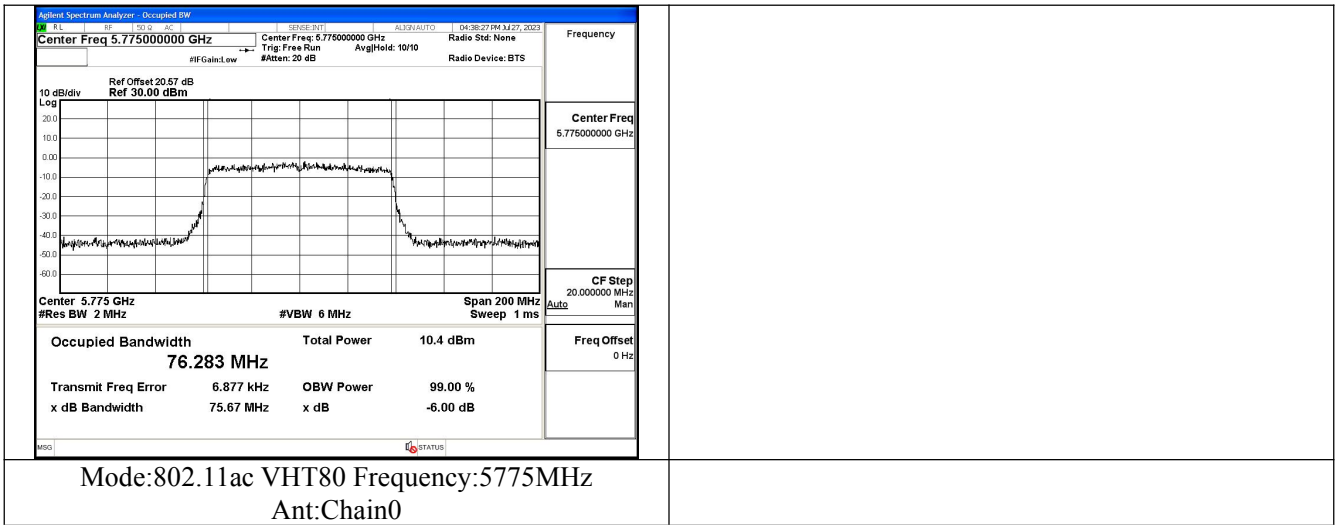


Mode:802.11ac VHT40 Frequency:5755MHz
Ant:Chain0



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

Test Mode: 802.11ac VHT80



6dB Bandwidth

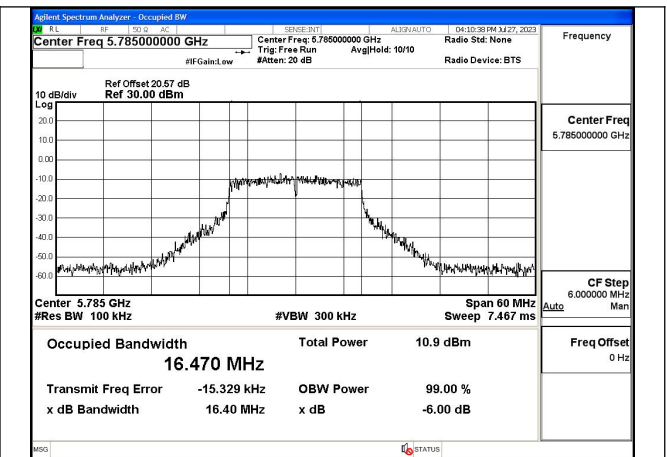
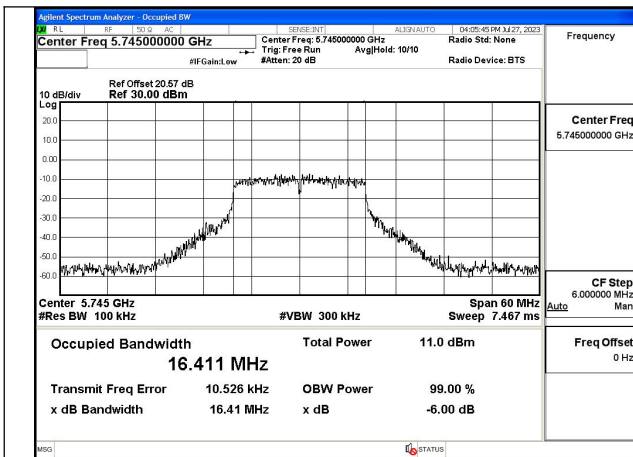
Offset 20.57dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.41	16.40	16.47
802.11n HT20	Chain0	17.56	15.89	17.70
802.11ac VHT20	Chain0	17.60	17.65	17.66

Test Mode	Antenna	6dB Bandwidth (MHz)		
		5755MHz	---	5795MHz
802.11n HT40	Chain0	34.94	---	35.20
802.11ac VHT40	Chain0	36.15	---	35.78

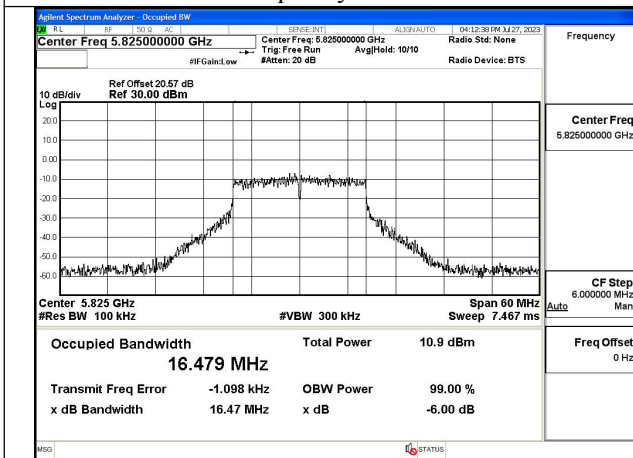
Test Mode	Antenna	6dB Bandwidth (MHz)		
		5775MHz	---	---
802.11ac VHT80	Chain0	73.46	---	---

Test Mode: 802.11a



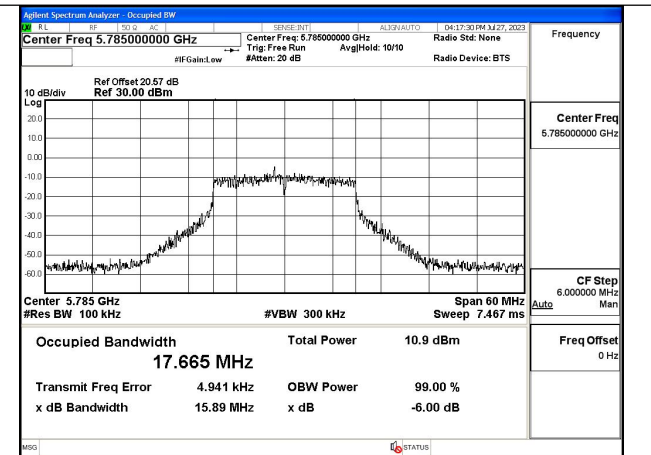
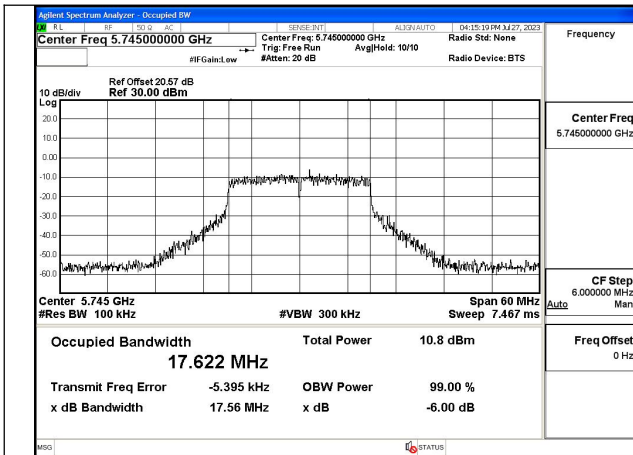
Mode:802.11a Frequency:5745MHz Ant:Chain0

Mode:802.11a Frequency:5785MHz Ant:Chain0



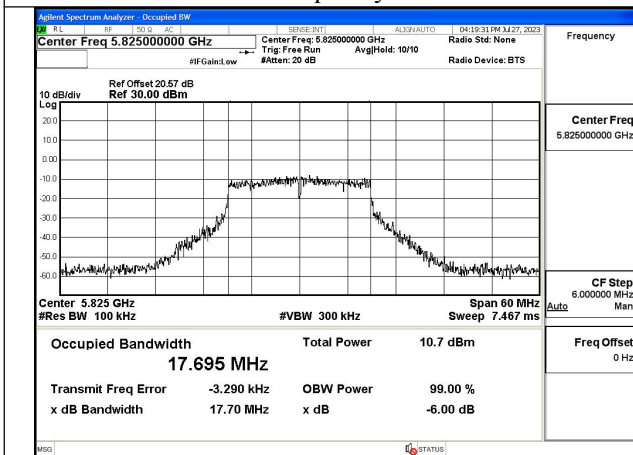
Mode:802.11a Frequency:5825MHz Ant:Chain0

Test Mode: 802.11n HT20



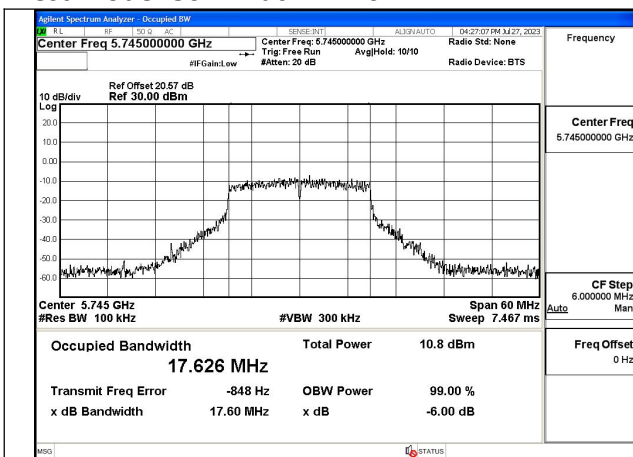
Mode:802.11n HT20 Frequency:5745MHz Ant:Chain0

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

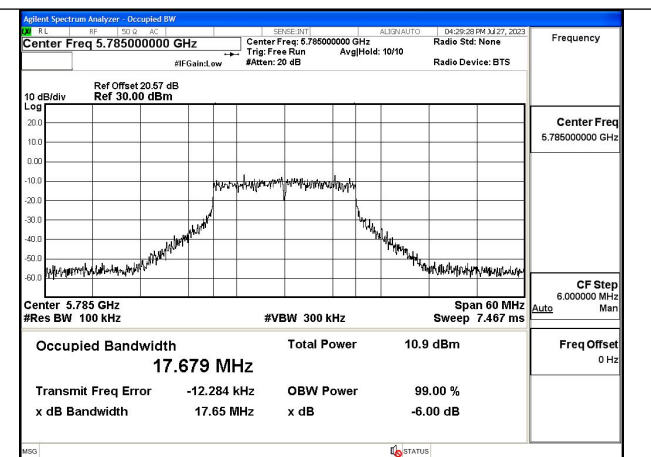


Mode:802.11n HT20 Frequency:5825MHz Ant:Chain0

Test Mode: 802.11ac VHT20



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



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