

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	98.70%	0
802.11a	5500	98.69%	0
802.11n HT20	5500	98.61%	0
802.11n HT20	5500	98.61%	0
802.11ac VHT20	5500	98.56%	0
802.11ac VHT20	5500	98.60%	0
802.11n HT40	5510	97.30%	0.12
802.11n HT40	5510	97.37%	0.12
802.11ac VHT40	5510	97.20%	0.12
802.11ac VHT40	5510	97.32%	0.12
802.11ac VHT80	5530	94.87%	0.23
802.11ac VHT80	5530	94.76%	0.23

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

### Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	15.01	19.08
802.11a	NA	5500	Chain1	16.03	20.10
802.11a	NA	5580	Chain0	14.24	18.31
802.11a	NA	5580	Chain1	15.44	19.51
802.11a	NA	5700	Chain0	15.52	19.59
802.11a	NA	5700	Chain1	16.32	20.39
802.11n HT20	NA	5500	Chain0	14.90	18.97
802.11n HT20	NA	5500	Chain1	15.88	19.95
802.11n HT20	NA	5500	MIMO	18.43	22.50
802.11n HT20	NA	5580	Chain0	14.13	18.20
802.11n HT20	NA	5580	Chain1	15.31	19.38
802.11n HT20	NA	5580	MIMO	17.77	21.84
802.11n HT20	NA	5700	Chain0	15.24	19.31
802.11n HT20	NA	5700	Chain1	16.32	20.39
802.11n HT20	NA	5700	MIMO	18.82	22.89
802.11ac VHT20	NA	5500	Chain0	14.82	18.89
802.11ac VHT20	NA	5500	Chain1	15.84	19.91
802.11ac VHT20	NA	5500	MIMO	18.37	22.44
802.11ac VHT20	NA	5580	Chain0	14.22	18.29
802.11ac VHT20	NA	5580	Chain1	15.27	19.34
802.11ac VHT20	NA	5580	MIMO	17.79	21.86
802.11ac VHT20	NA	5700	Chain0	15.22	19.29
802.11ac VHT20	NA	5700	Chain1	16.24	20.31

802.11ac VHT20	NA	5700	MIMO	18.77	22.84
802.11n HT40	NA	5510	Chain0	14.61	18.68
802.11n HT40	NA	5510	Chain1	15.82	19.89
802.11n HT40	NA	5510	MIMO	18.27	22.34
802.11n HT40	NA	5590	Chain0	13.95	18.02
802.11n HT40	NA	5590	Chain1	15.20	19.27
802.11n HT40	NA	5590	MIMO	17.63	21.70
802.11n HT40	NA	5670	Chain0	14.81	18.88
802.11n HT40	NA	5670	Chain1	16.02	20.09
802.11n HT40	NA	5670	MIMO	18.47	22.54
802.11ac VHT40	NA	5510	Chain0	14.58	18.65
802.11ac VHT40	NA	5510	Chain1	15.77	19.84
802.11ac VHT40	NA	5510	MIMO	18.23	22.30
802.11ac VHT40	NA	5590	Chain0	14.07	18.14
802.11ac VHT40	NA	5590	Chain1	15.24	19.31
802.11ac VHT40	NA	5590	MIMO	17.70	21.77
802.11ac VHT40	NA	5670	Chain0	14.91	18.98
802.11ac VHT40	NA	5670	Chain1	16.22	20.29
802.11ac VHT40	NA	5670	MIMO	18.62	22.69
802.11ac VHT80	NA	5530	Chain0	14.36	18.43
802.11ac VHT80	NA	5530	Chain1	15.11	19.18
802.11ac VHT80	NA	5530	MIMO	17.76	21.83
802.11ac VHT80	NA	5610	Chain0	13.86	17.93
802.11ac VHT80	NA	5610	Chain1	15.12	19.19
802.11ac VHT80	NA	5610	MIMO	17.55	21.62

## Emission Bandwidth

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	19.83	27.14	20.99
802.11a	Chain1	20.09	22.48	20.04
802.11n HT20	Chain0	20.38	24.41	23.30
802.11n HT20	Chain1	20.20	24.61	20.59
802.11ac VHT20	Chain0	20.31	26.03	23.21
802.11ac VHT20	Chain1	20.43	25.15	20.68

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	41.33	50.40	59.12
802.11n HT40	Chain1	40.79	51.40	40.47
802.11ac VHT40	Chain0	40.79	48.53	57.67

802.11ac VHT40	Chain1	40.65	47.41	46.40
----------------	--------	-------	-------	-------

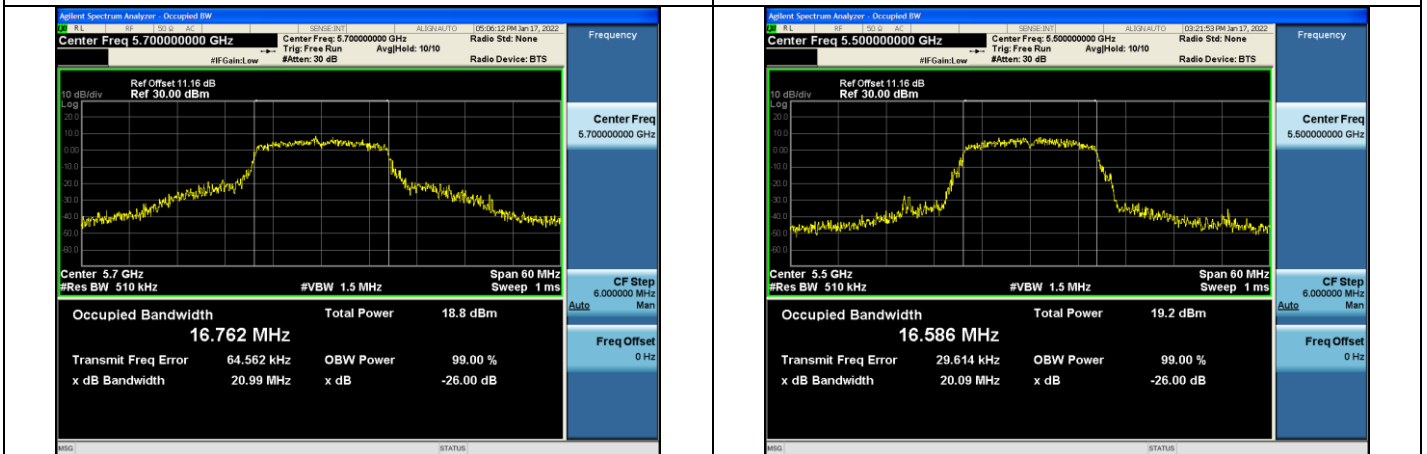
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
802.11ac VHT80	Chain0	81.64	---	108.15
802.11ac VHT80	Chain1	81.10	---	102.08

Test Mode: 802.11a



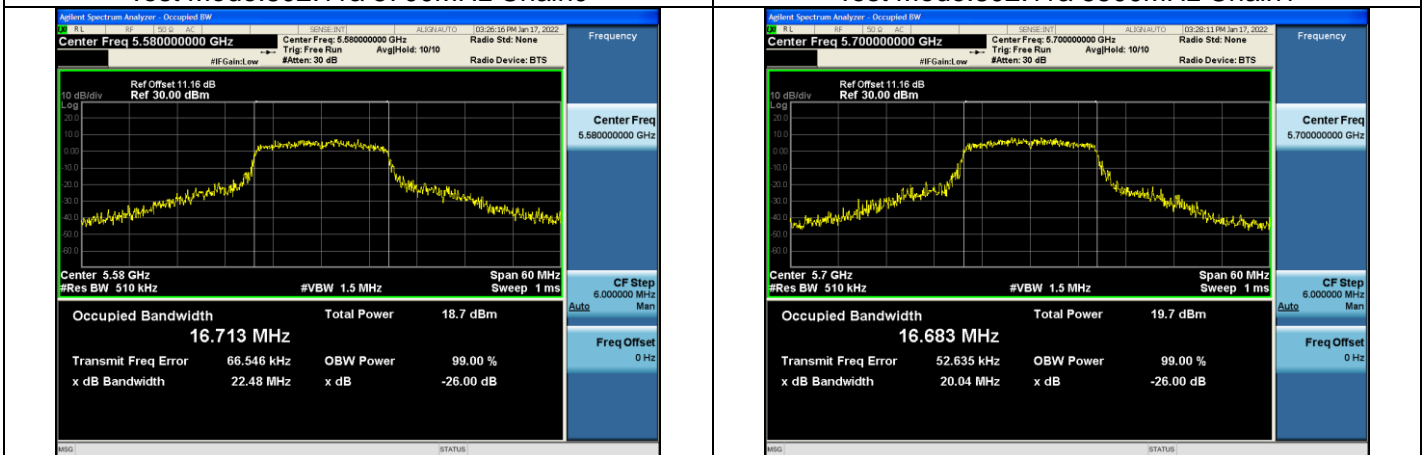
Test Mode:802.11a 5500MHz Chain0

Test Mode:802.11a 5580MHz Chain0



Test Mode:802.11a 5700MHz Chain0

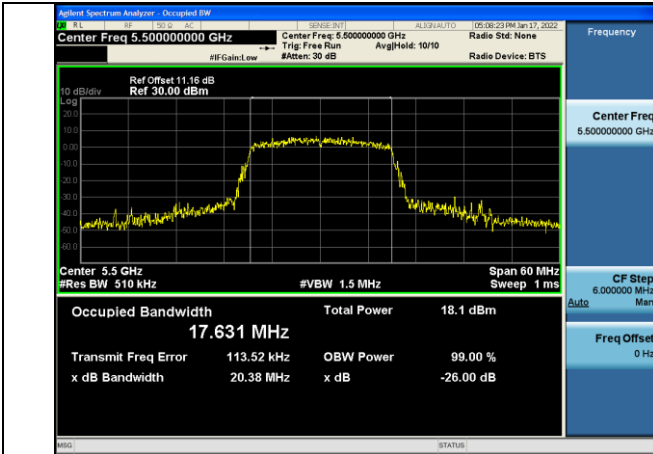
Test Mode:802.11a 5500MHz Chain1



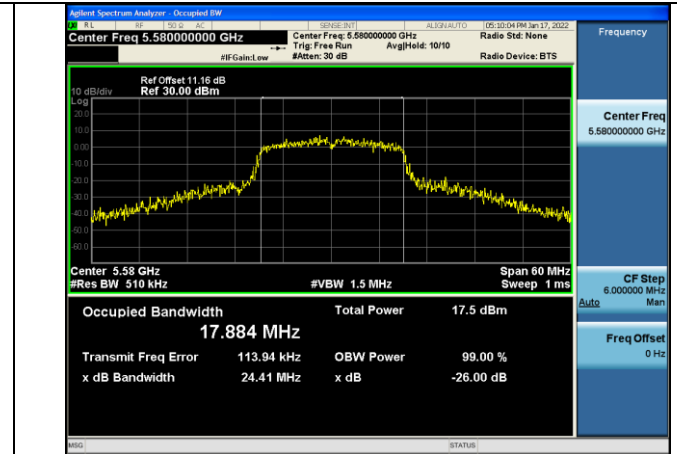
Test Mode:802.11a 5580MHz Chain1

Test Mode:802.11a 5700MHz Chain1

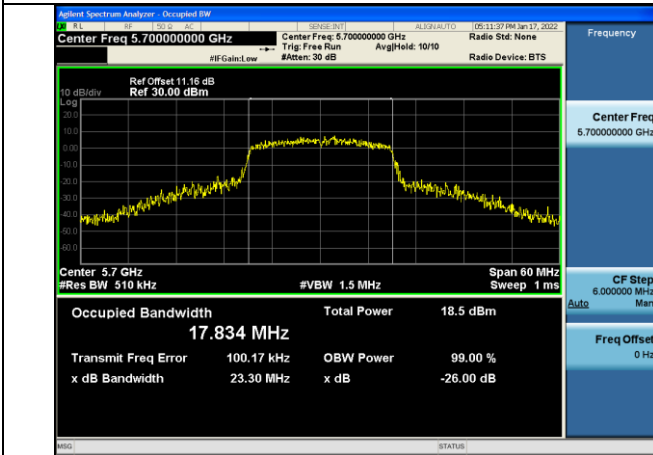
Test Mode: 802.11n HT20



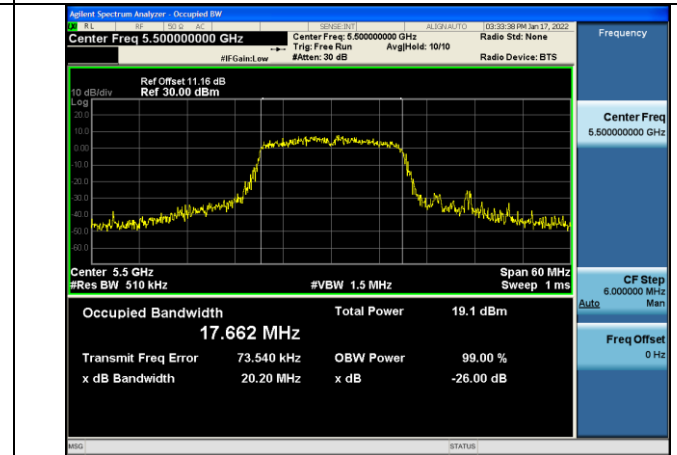
Test Mode:802.11n HT20 5500MHz Chain0



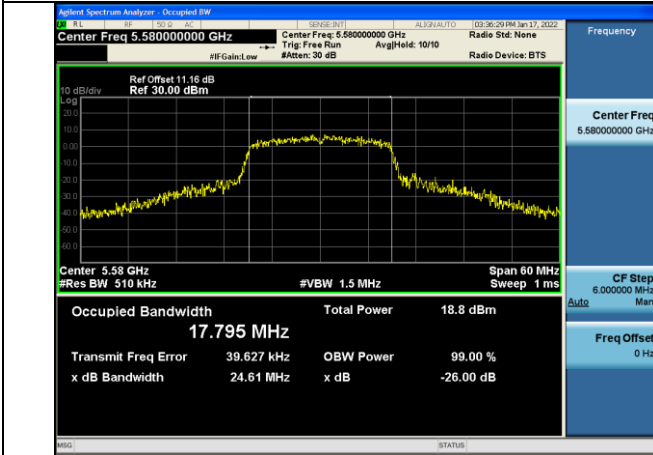
Test Mode:802.11n HT20 5580MHz Chain0



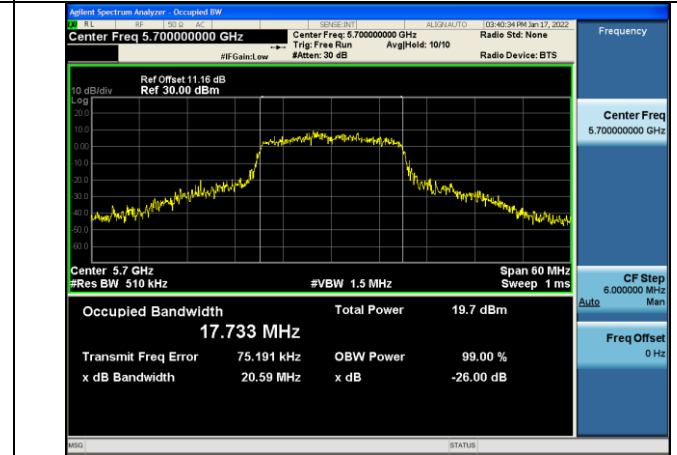
Test Mode:802.11n HT20 5700MHz Chain0



Test Mode:802.11n HT20 5500MHz Chain1

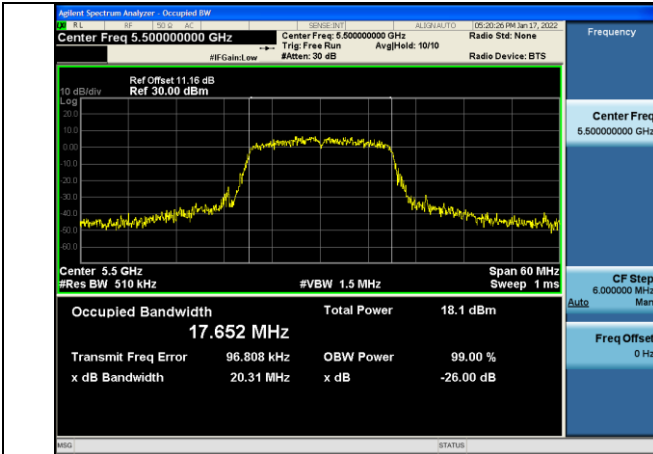


Test Mode:802.11n HT20 5580MHz Chain1

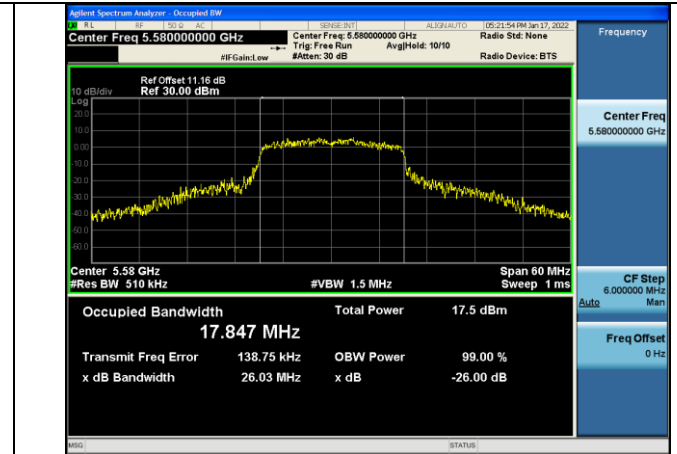


Test Mode:802.11n HT20 5700MHz Chain1

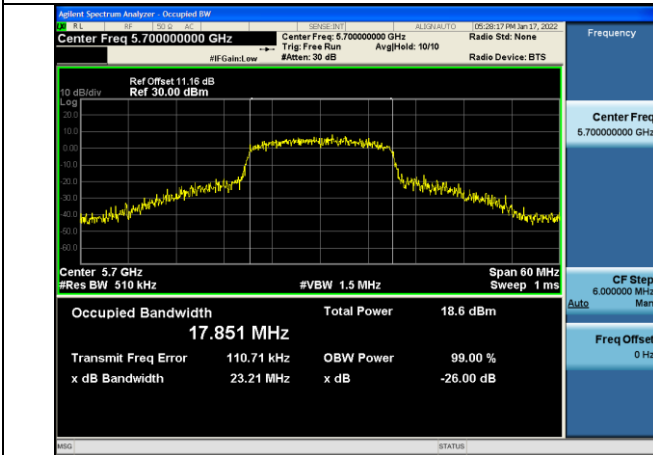
Test Mode: 802.11ac VHT20



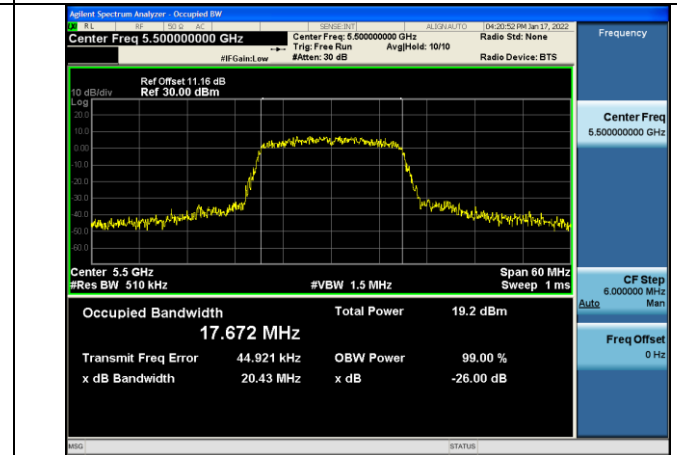
Test Mode:802.11ac VHT20 5500MHz Chain0



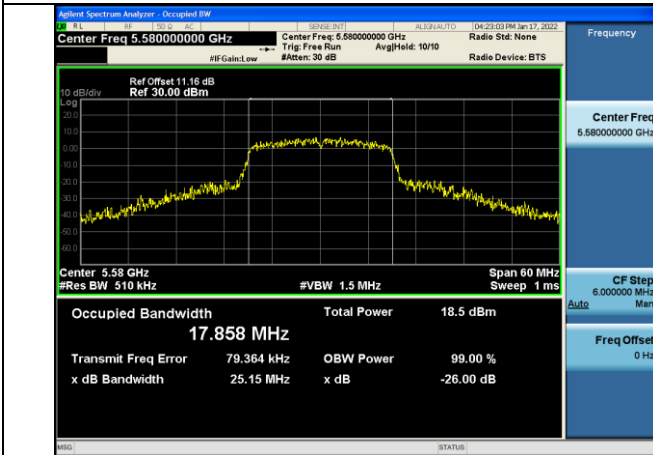
Test Mode:802.11ac VHT20 5580MHz Chain0



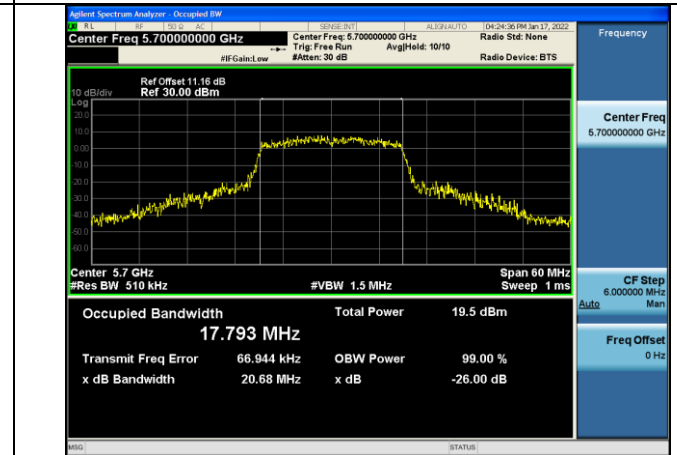
Test Mode:802.11ac VHT20 5700MHz Chain0



Test Mode:802.11ac VHT20 5500MHz Chain1

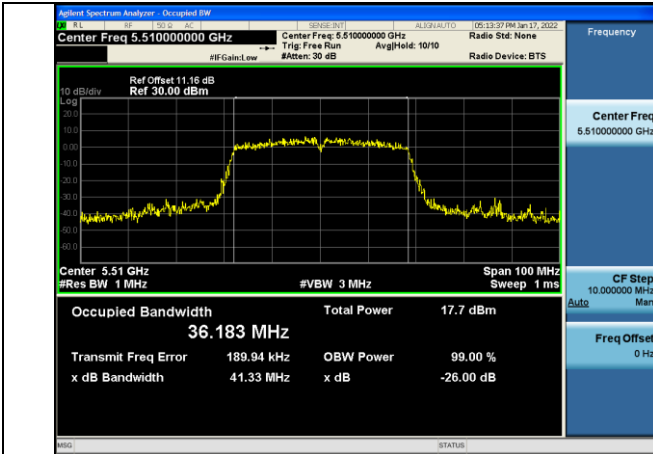


Test Mode:802.11ac VHT20 5580MHz Chain1

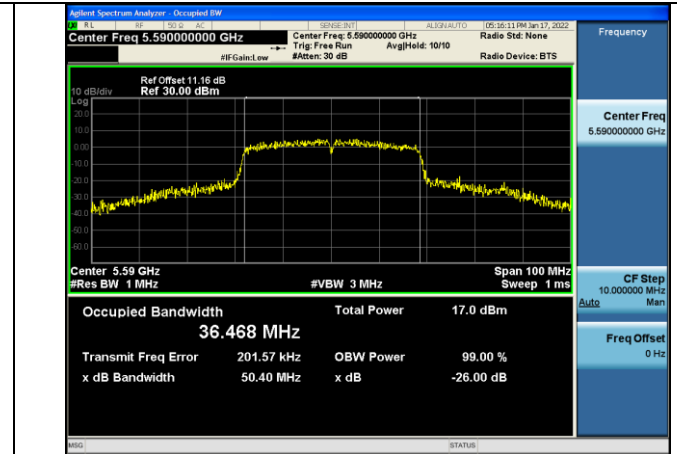


Test Mode:802.11ac VHT20 5700MHz Chain1

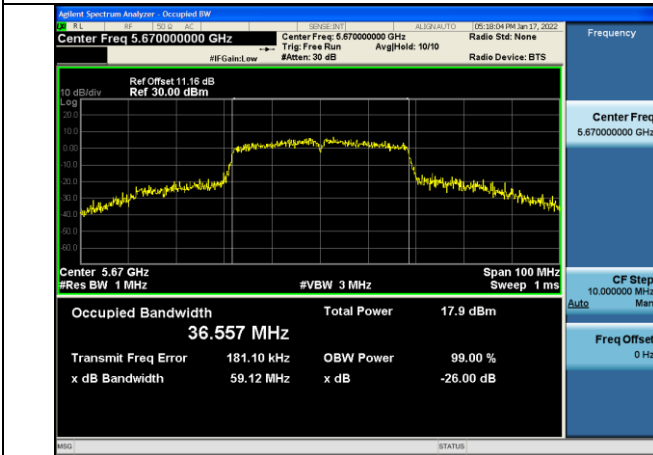
Test Mode: 802.11n HT40



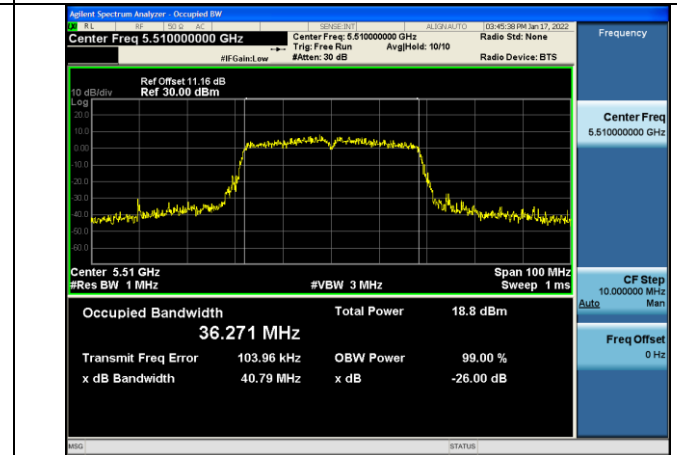
Test Mode:802.11n HT40 5510MHz Chain0



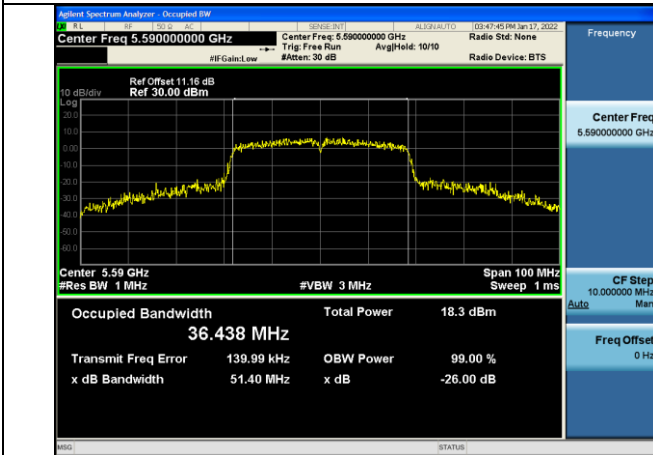
Test Mode:802.11n HT40 5590MHz Chain0



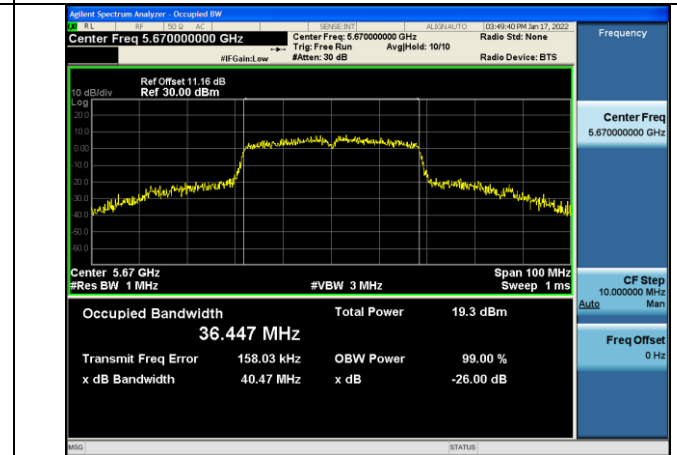
Test Mode:802.11n HT40 5670MHz Chain0



Test Mode:802.11n HT40 5510MHz Chain1

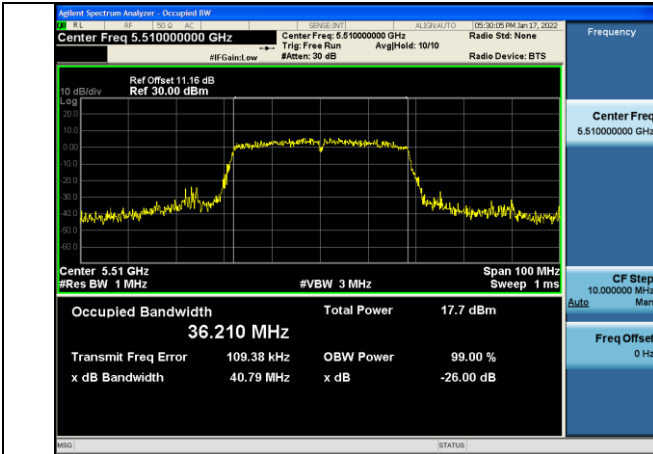


Test Mode:802.11n HT40 5590MHz Chain1

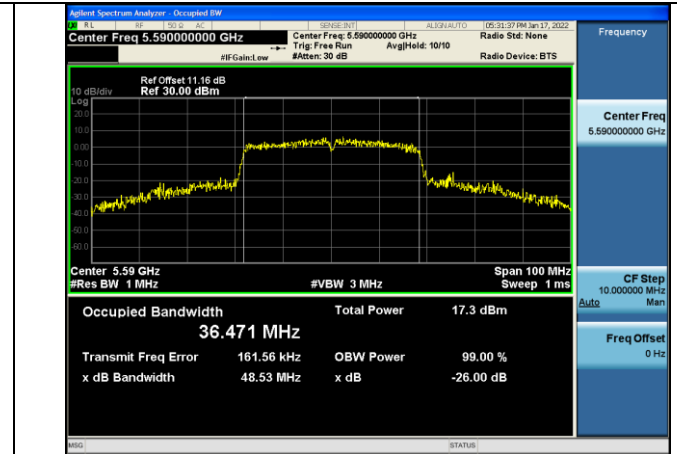


Test Mode:802.11n HT40 5670MHz Chain1

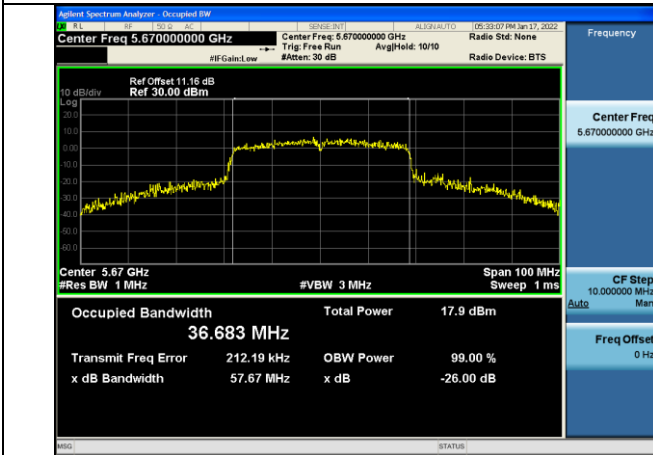
Test Mode: 802.11ac VHT40



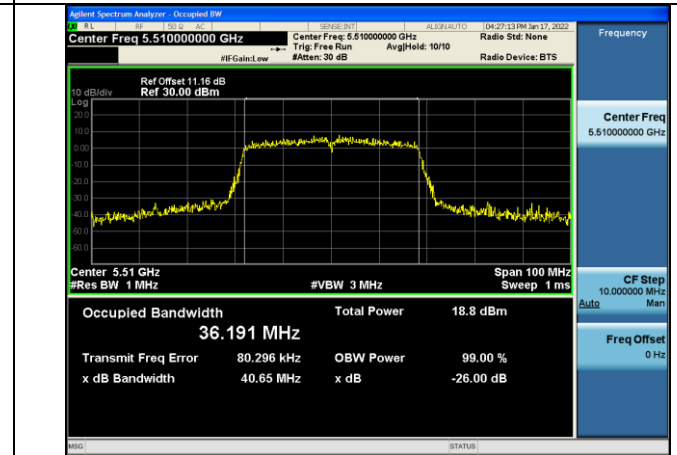
Test Mode:802.11ac VHT40 5510MHz Chain0



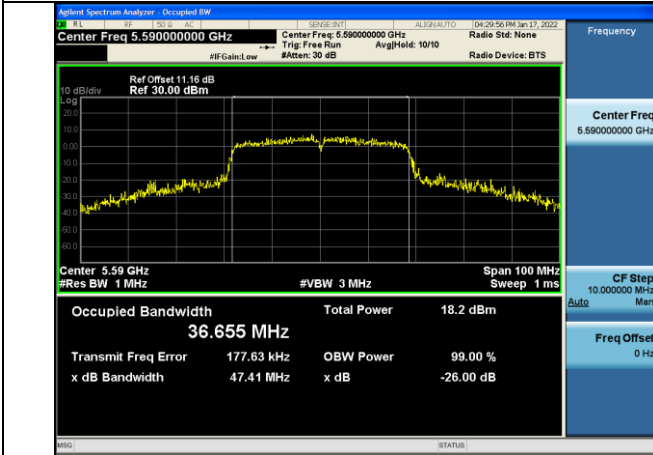
Test Mode:802.11ac VHT40 5590MHz Chain0



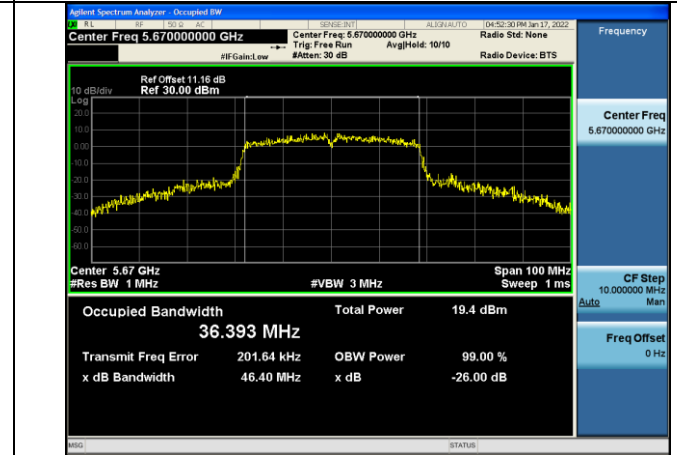
Test Mode:802.11ac VHT40 5670MHz Chain0



Test Mode:802.11ac VHT40 5510MHz Chain1

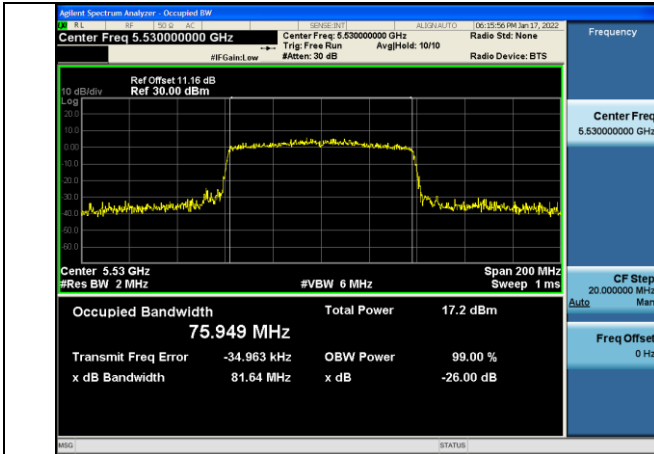


Test Mode:802.11ac VHT40 5590MHz Chain1



Test Mode:802.11ac VHT40 5670MHz Chain1

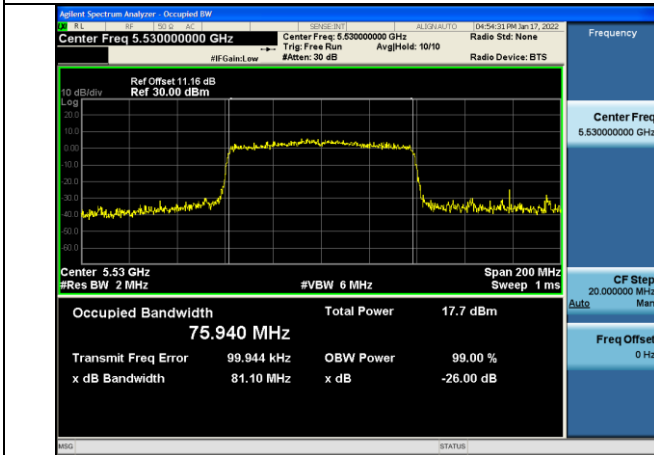
Test Mode: 802.11ac VHT80



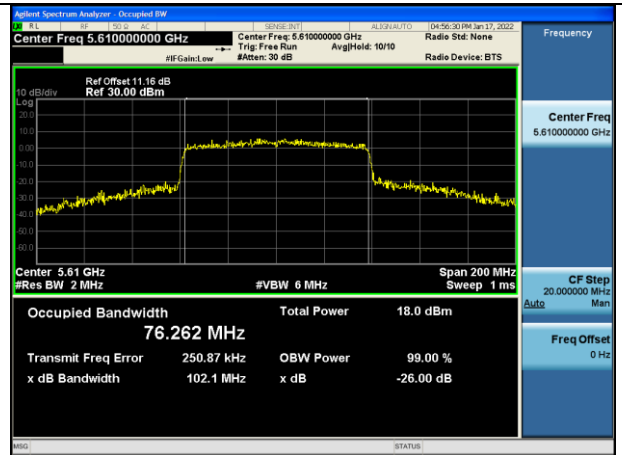
Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0



Test Mode:802.11ac VHT80 5530MHz Chain1



Test Mode:802.11ac VHT80 5610MHz Chain1



## Occupied Bandwidth

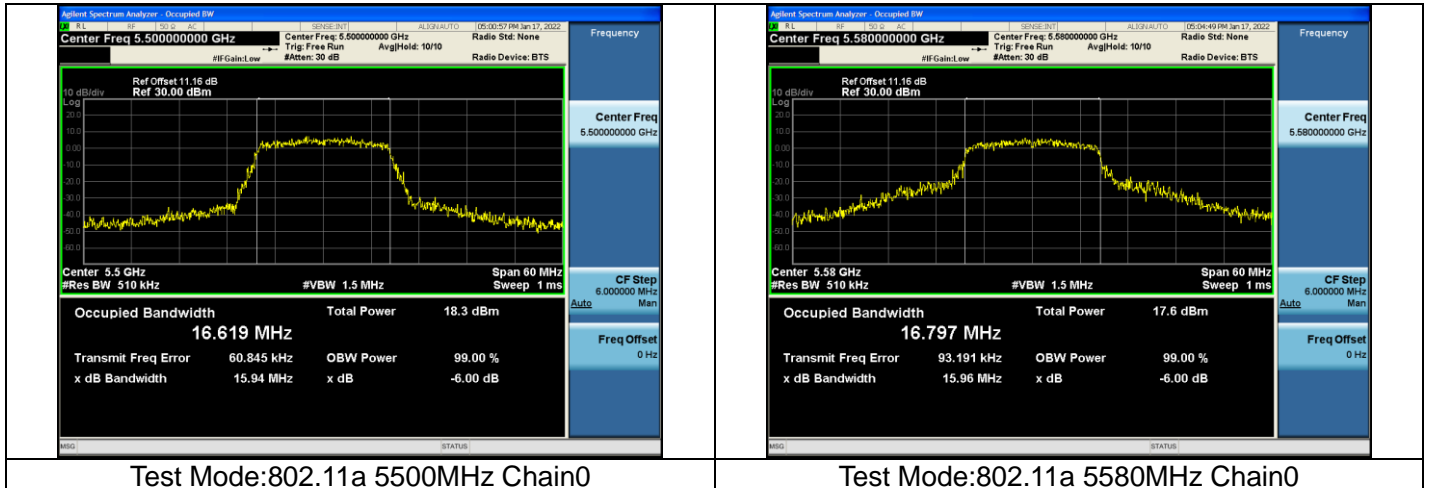
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

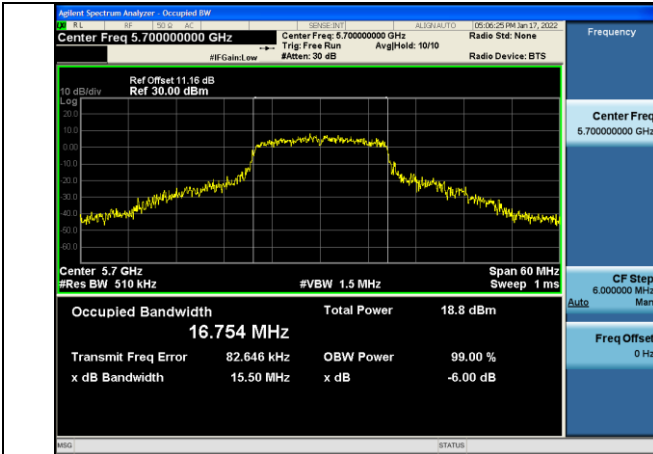
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.618	Channel No.634	Channel No.658
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	16.619	16.797	16.754
802.11a	Chain1	16.574	16.751	16.680
802.11n HT20	Chain0	17.664	17.927	17.870
802.11n HT20	Chain1	17.649	17.794	17.700
802.11ac VHT20	Chain0	17.720	17.858	17.816
802.11ac VHT20	Chain1	17.771	17.849	17.713

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.620	Channel No.636	Channel No.652
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	36.184	36.522	36.467
802.11n HT40	Chain1	36.204	36.425	36.305
802.11ac VHT40	Chain0	36.141	36.430	36.576
802.11ac VHT40	Chain1	36.225	36.341	36.276

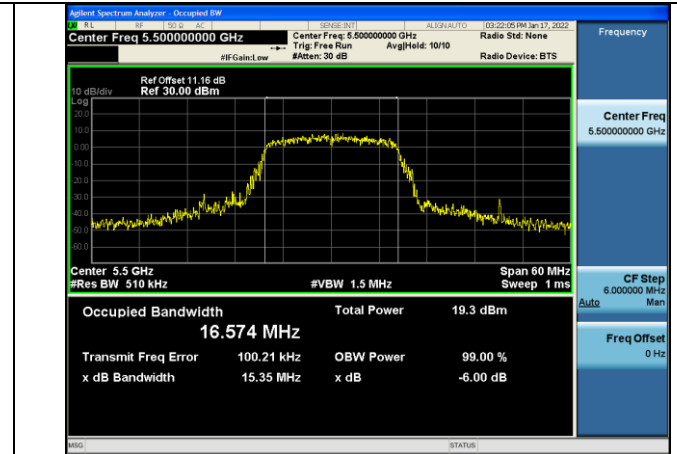
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.624	---	Channel No.640
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	76.008	---	76.646
802.11ac VHT80	Chain1	75.883	---	76.419

Test Mode: 802.11a

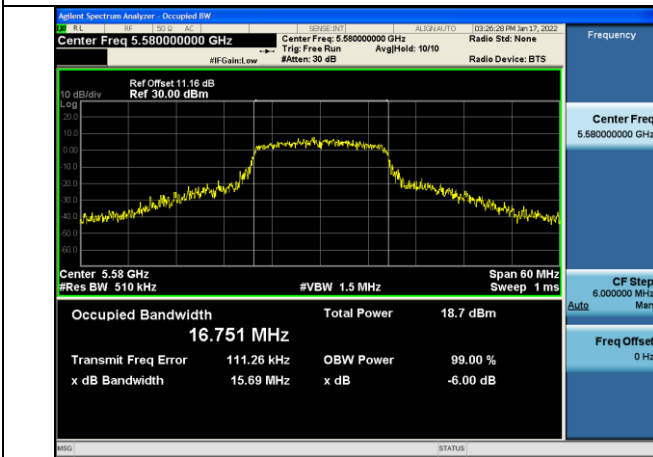




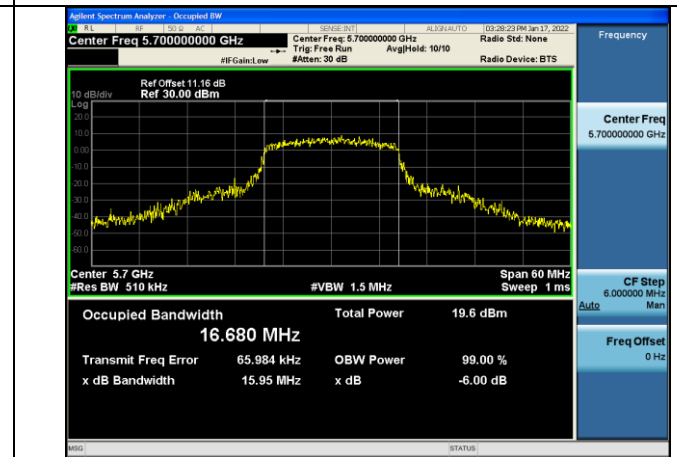
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1

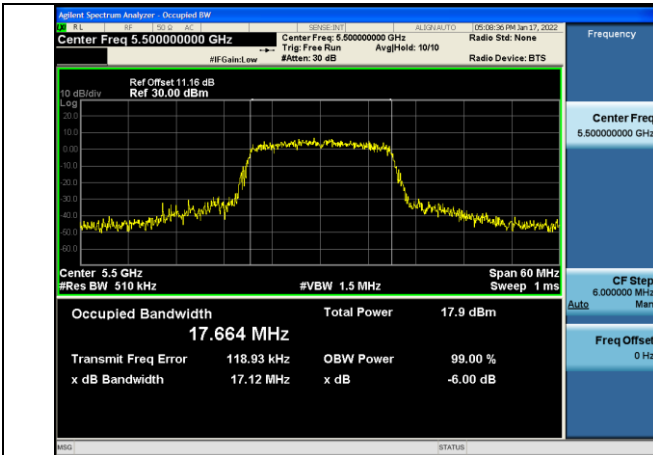


Test Mode:802.11a 5580MHz Chain1

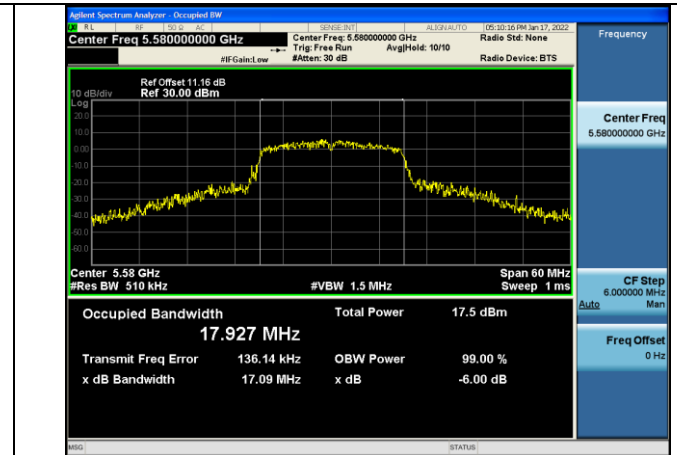


Test Mode:802.11a 5700MHz Chain1

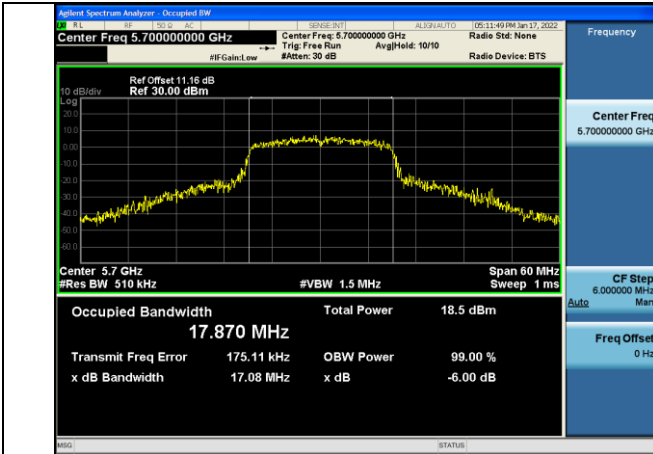
Test Mode: 802.11n HT20



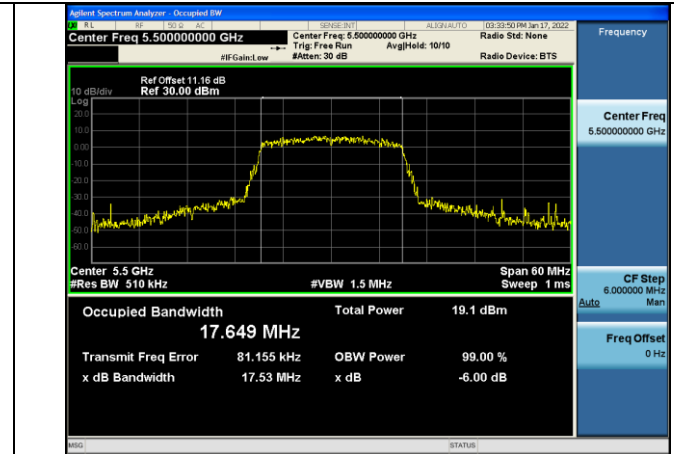
Test Mode:802.11n HT20 5500MHz Chain0



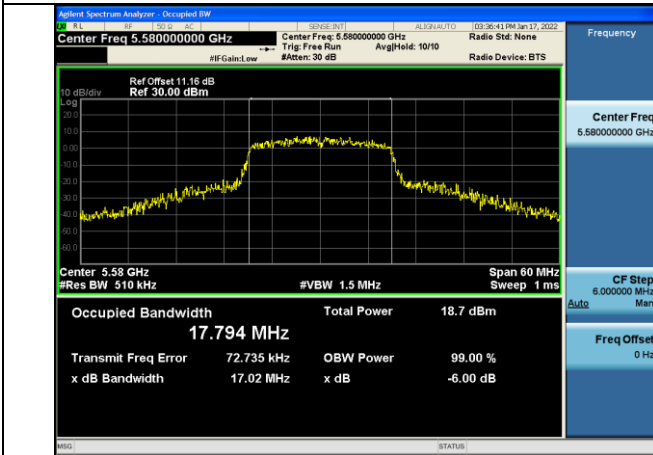
Test Mode:802.11n HT20 5580MHz Chain0



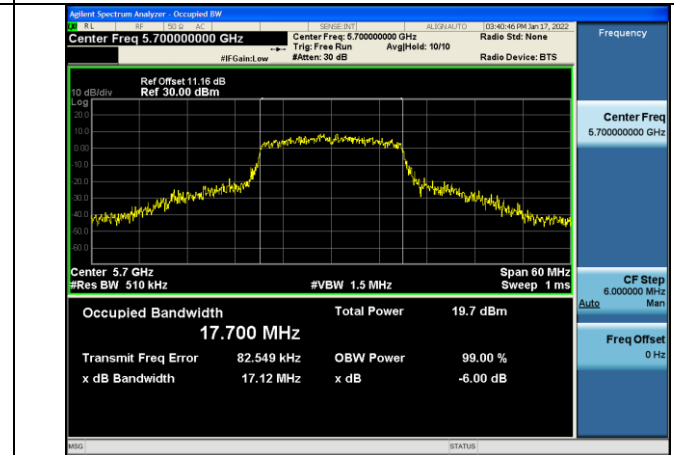
Test Mode:802.11n HT20 5700MHz Chain0



Test Mode:802.11n HT20 5500MHz Chain1

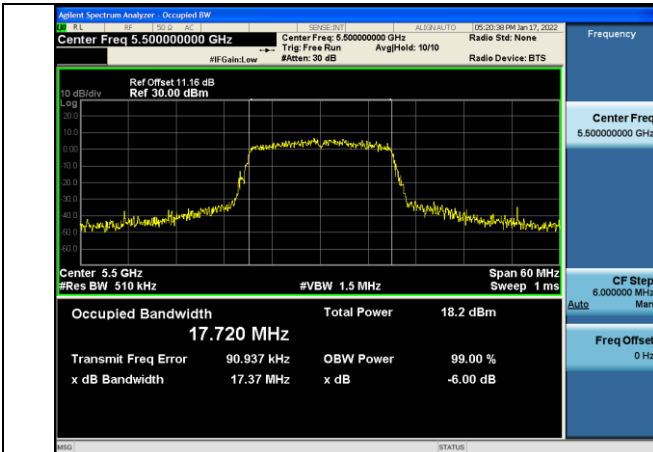


Test Mode:802.11n HT20 5580MHz Chain1

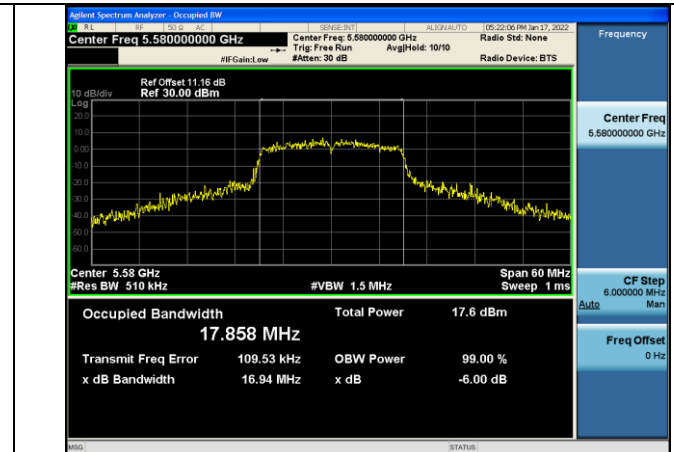


Test Mode:802.11n HT20 5700MHz Chain1

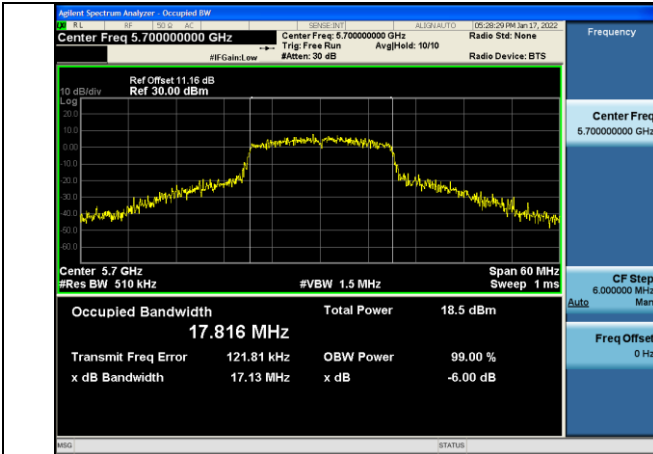
Test Mode: 802.11ac VHT20



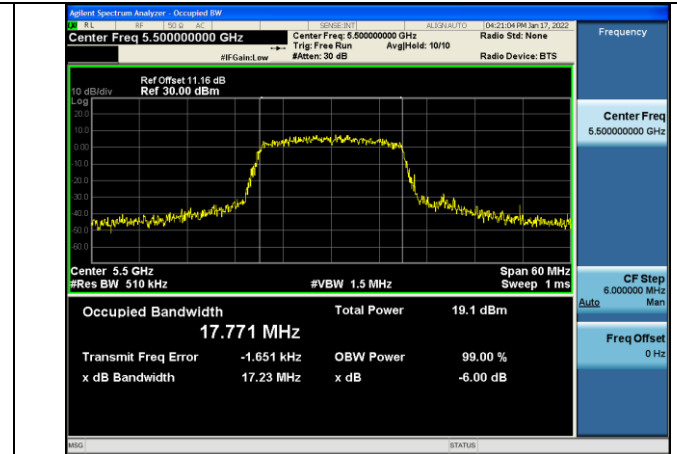
Test Mode:802.11ac VHT20 5500MHz Chain0



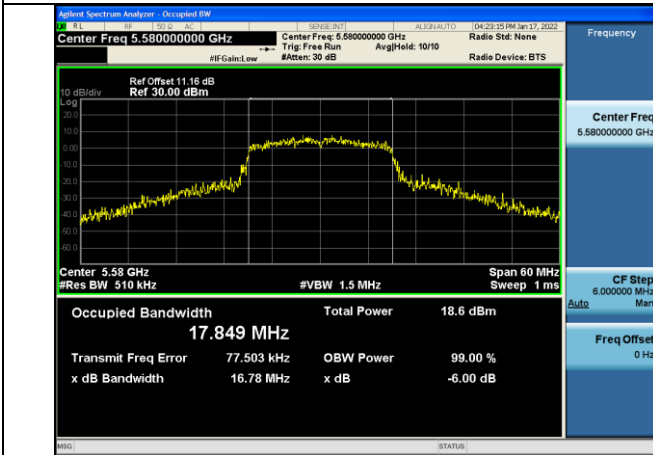
Test Mode:802.11ac VHT20 5580MHz Chain0



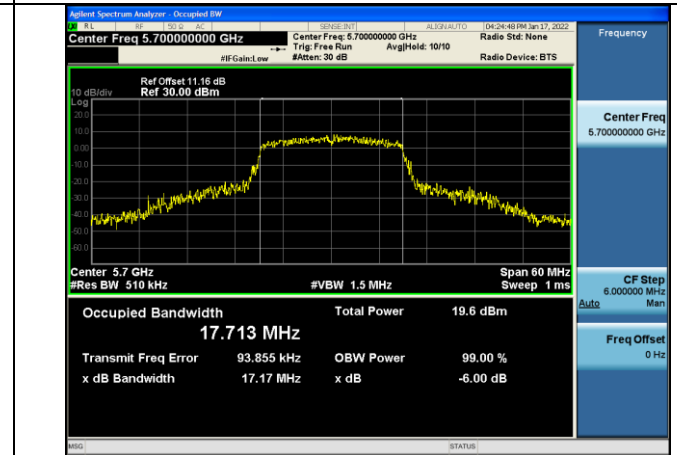
Test Mode:802.11ac VHT20 5700MHz Chain0



Test Mode:802.11ac VHT20 5500MHz Chain1

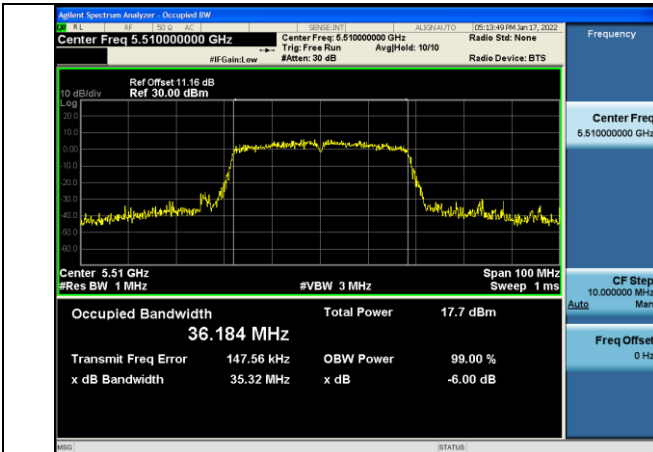


Test Mode:802.11ac VHT20 5580MHz Chain1

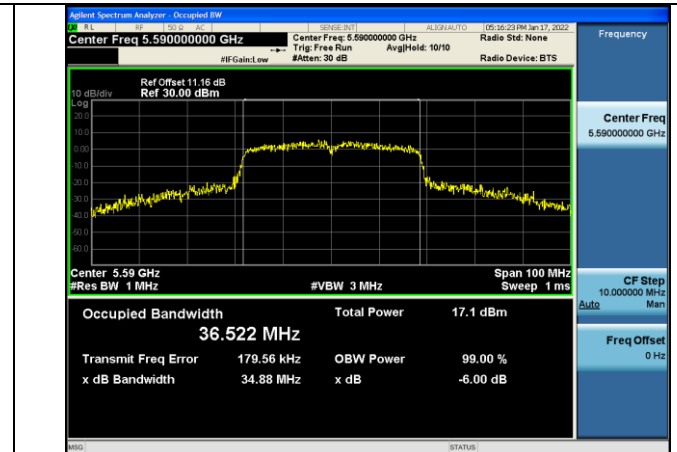


Test Mode:802.11ac VHT20 5700MHz Chain1

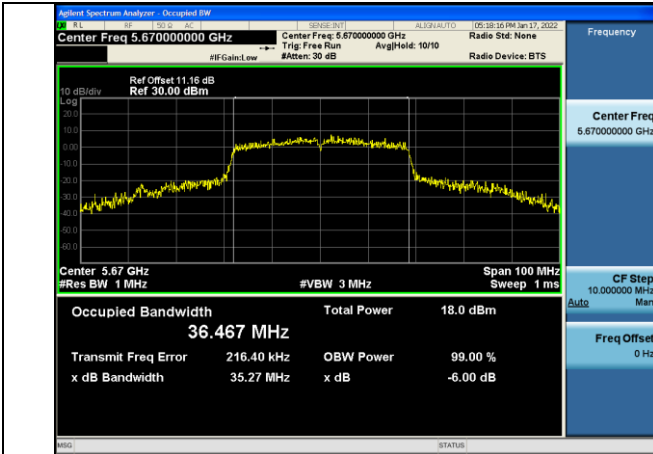
Test Mode: 802.11n HT40



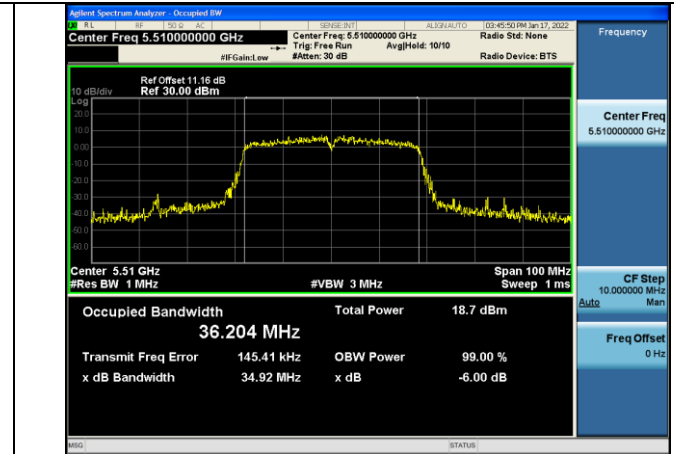
Test Mode:802.11n HT40 5510MHz Chain0



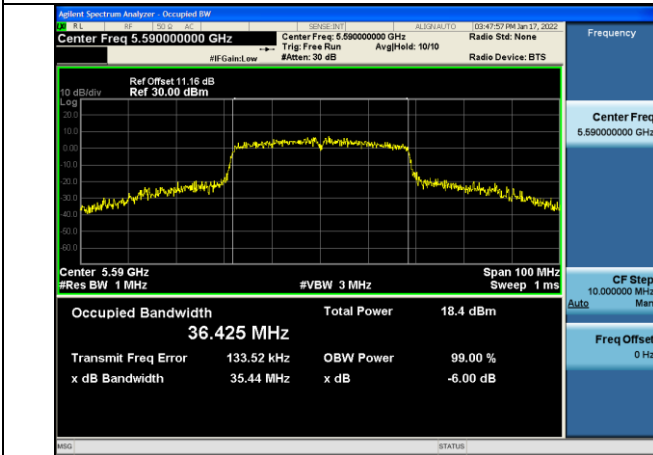
Test Mode:802.11n HT40 5590MHz Chain0



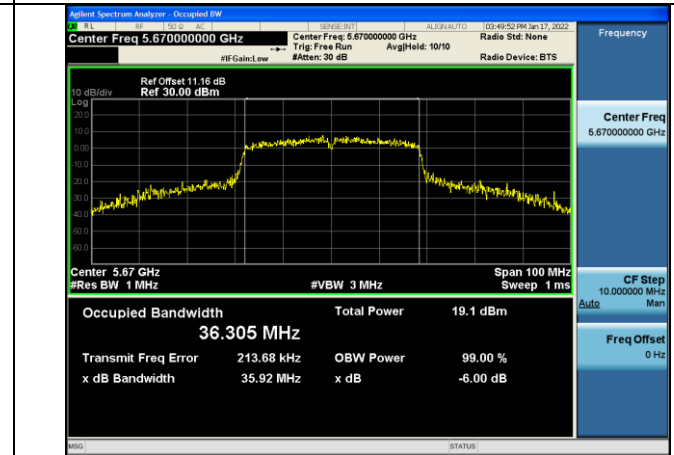
Test Mode:802.11n HT40 5670MHz Chain0



Test Mode:802.11n HT40 5510MHz Chain1

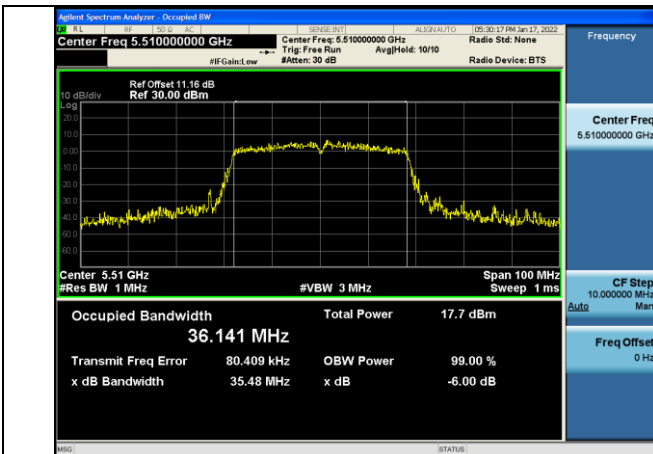


Test Mode:802.11n HT40 5590MHz Chain1

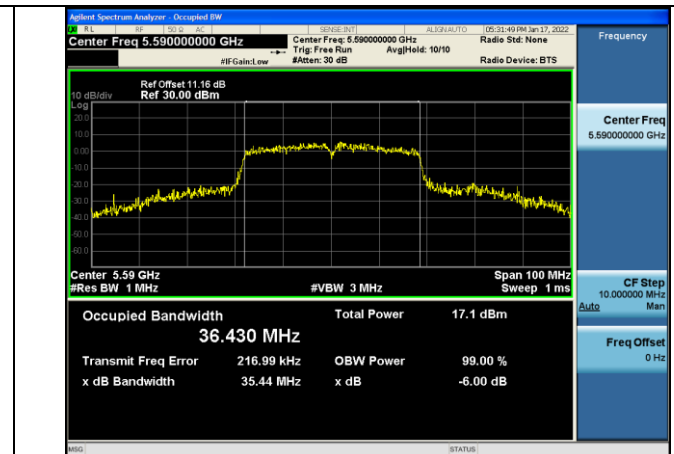


Test Mode:802.11n HT40 5670MHz Chain1

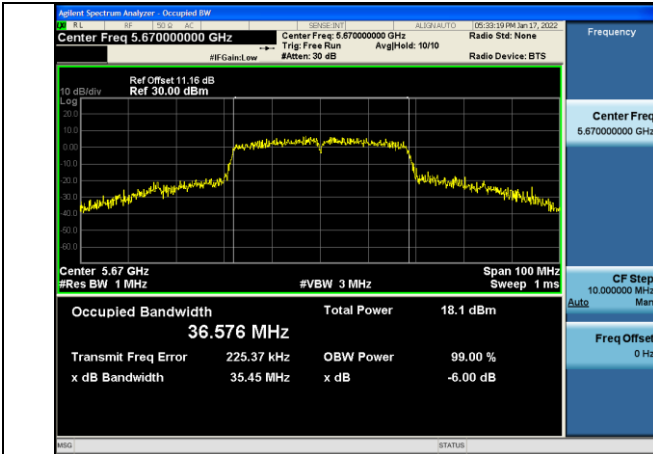
Test Mode: 802.11ac VHT40



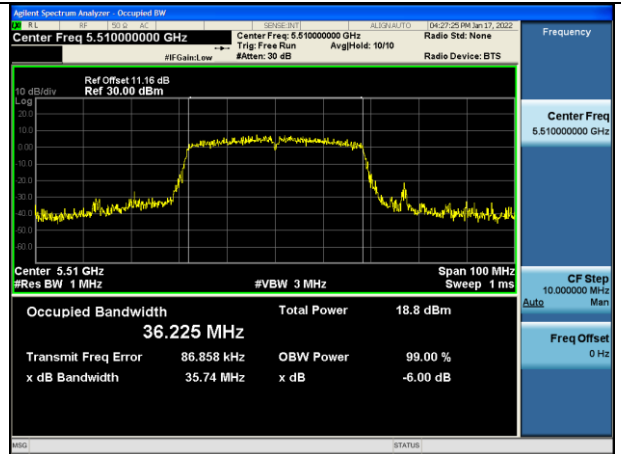
Test Mode:802.11ac VHT40 5510MHz Chain0



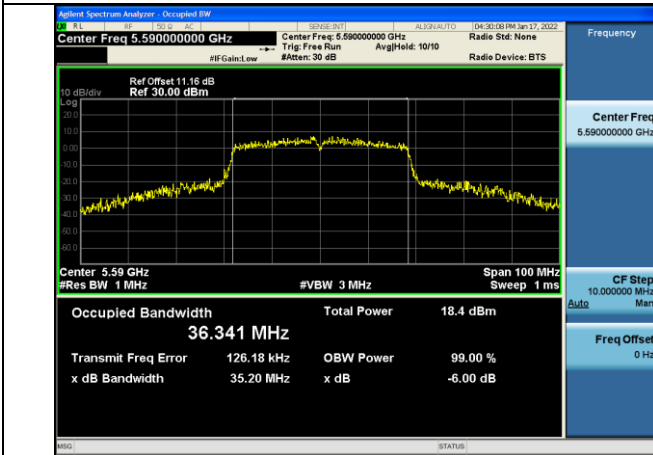
Test Mode:802.11ac VHT40 5590MHz Chain0



Test Mode:802.11ac VHT40 5670MHz Chain0



Test Mode:802.11ac VHT40 5510MHz Chain1

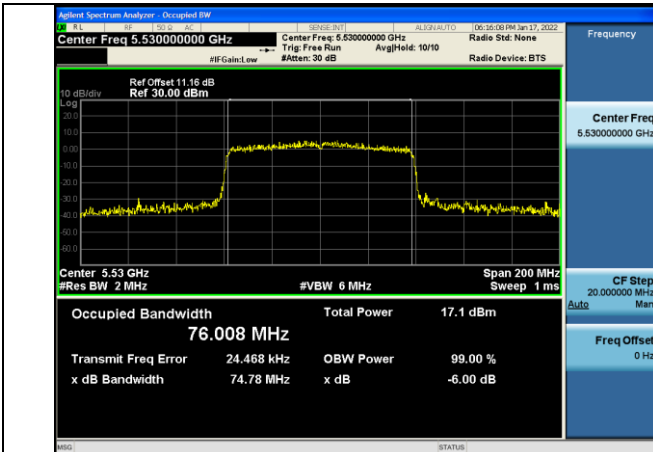


Test Mode:802.11ac VHT40 5590MHz Chain1



Test Mode:802.11ac VHT40 5670MHz Chain1

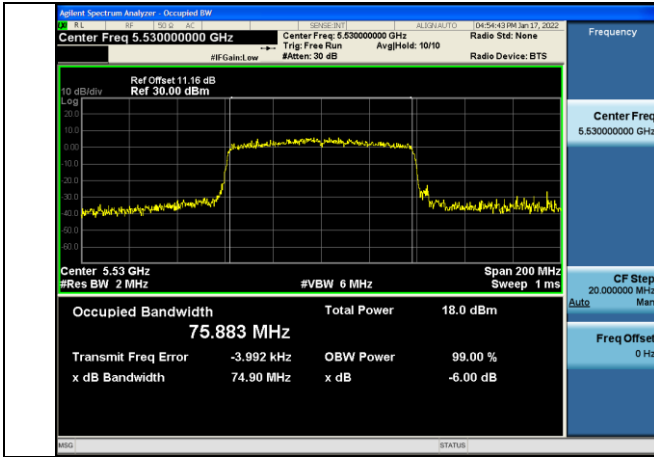
Test Mode: 802.11ac VHT80



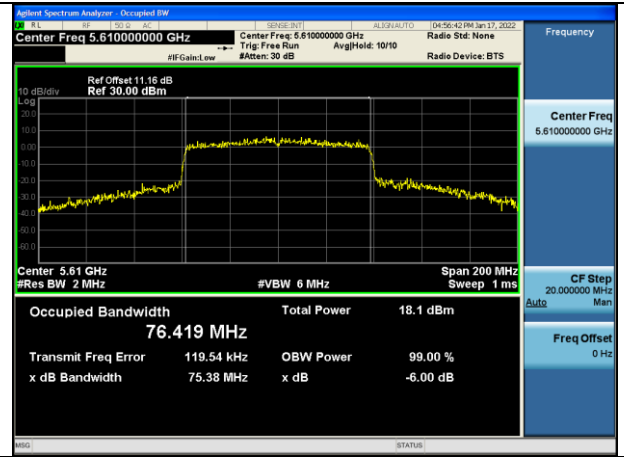
Test Mode:802.11ac VHT80 5530MHz Chain0



Test Mode:802.11ac VHT80 5610MHz Chain0



Test Mode:802.11ac VHT80 5530MHz Chain1



Test Mode:802.11ac VHT80 5610MHz Chain1

## Transmitter Power Spectral Density

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

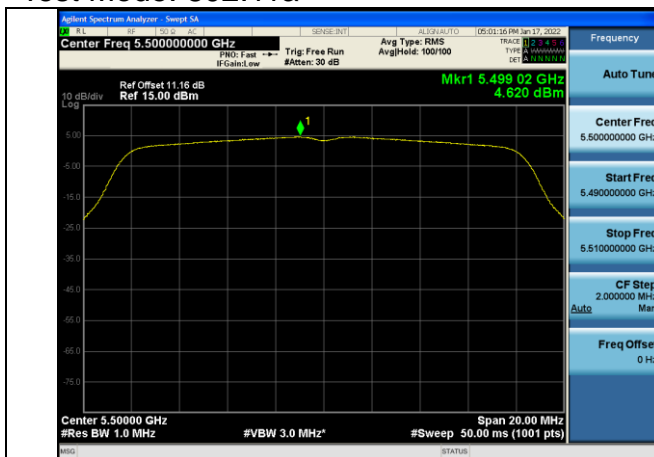
Test Mode	Antenna	5500MHz		5580MHz		5700MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.1 1a	Chain0	0	4.620	0	3.744	0	5.034
802.1 1a	Chain1	0	5.515	0	4.992	0	5.822
802.1 1n HT20	Chain0	0	4.072	0	3.485	0	4.586
802.1 1n HT20	Chain1	0	5.191	0	4.618	0	5.681
802.1 1n HT20	MIMO	0	7.678	0	7.099	0	8.178
802.1 1ac VHT2 0	Chain0	0	4.235	0	3.525	0	4.624
802.1 1ac VHT2 0	Chain1	0	5.173	0	4.674	0	5.635
802.1 1ac VHT2 0	MIMO	0	7.740	0	7.148	0	8.169

Test Mode	Antenna	5510MHz		5590MHz		5670MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.1 1n HT40	Chain0	0.12	0.911	0.12	0.330	0.12	1.283
802.1 1n HT40	Chain1	0.12	2.010	0.12	1.599	0.12	2.395
802.1 1n HT40	MIMO	0.12	4.505	0.12	4.021	0.12	4.885
802.1 1ac VHT4 0	Chain0	0.12	0.973	0.12	0.488	0.12	1.286
802.1 1ac VHT4 0	Chain1	0.12	2.148	0.12	1.620	0.12	2.629
802.1 1ac VHT4 0	MIMO	0.12	4.610	0.12	4.101	0.12	5.020



Test Mode	Antenna	5530MHz		---		5610MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	0.23	-2.267	---	---	0.23	-2.924
802.11ac VHT80	Chain1	0.23	-1.451	---	---	0.23	-1.606
802.11ac VHT80	MIMO	0.23	1.170	---	---	0.23	0.795

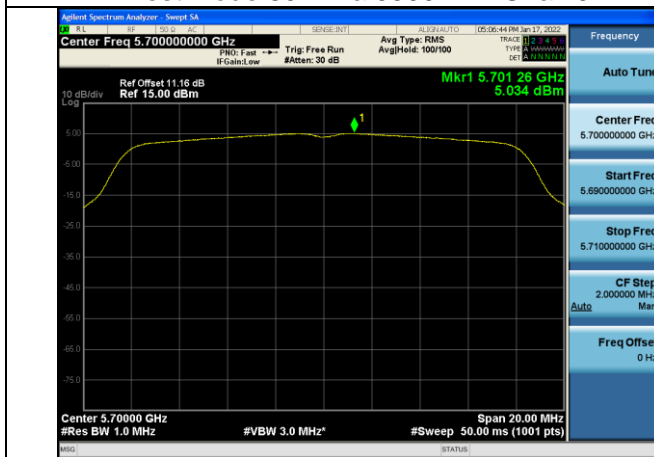
Test Mode: 802.11a



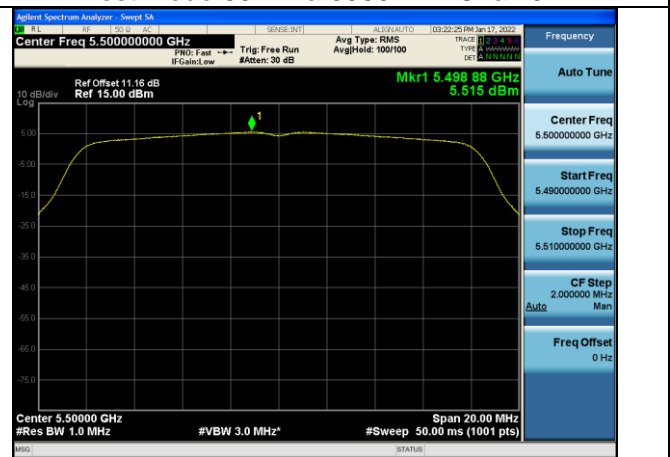
Test Mode:802.11a 5500MHz Chain0



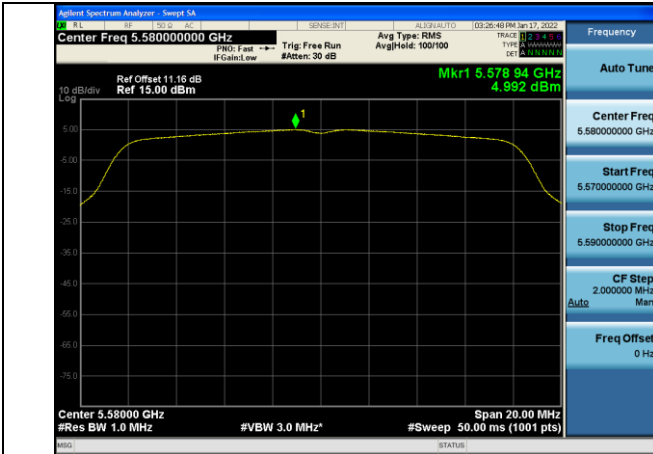
Test Mode:802.11a 5580MHz Chain0



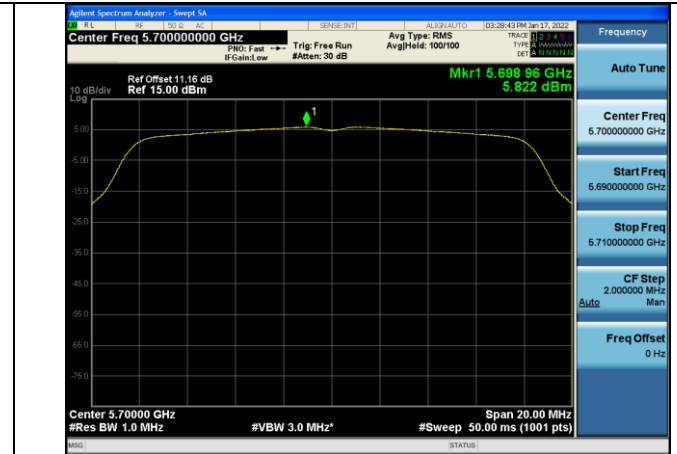
Test Mode:802.11a 5700MHz Chain0



Test Mode:802.11a 5500MHz Chain1

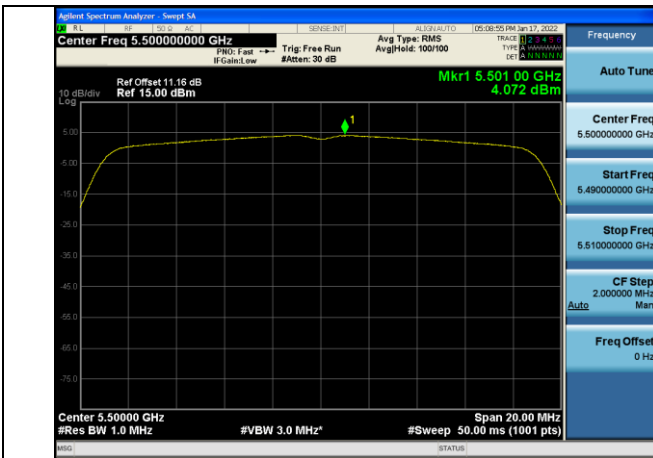


Test Mode:802.11a 5580MHz Chain1

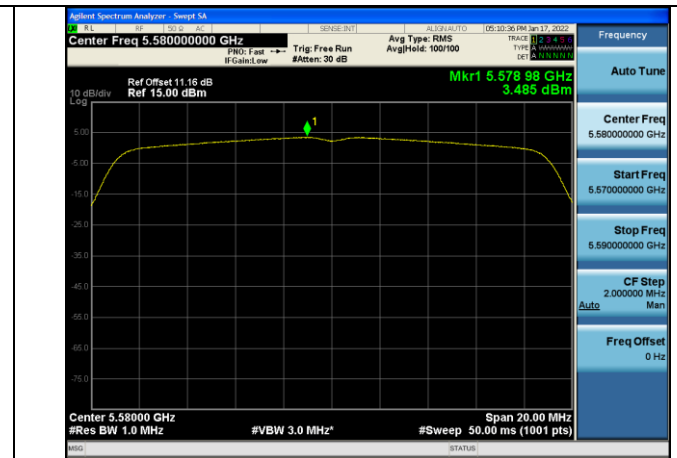


Test Mode:802.11a 5700MHz Chain1

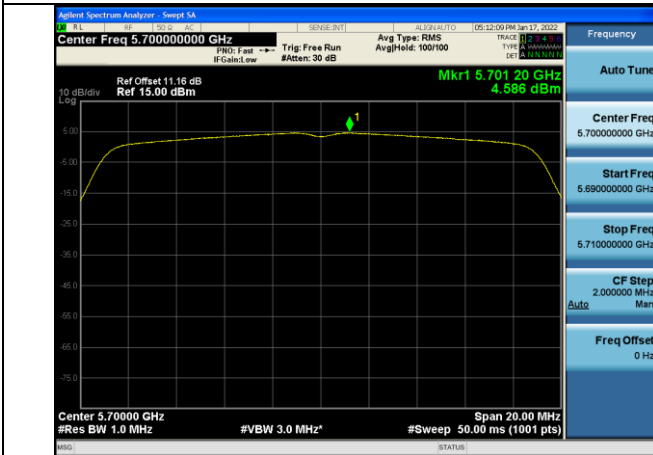
Test Mode: 802.11n HT20



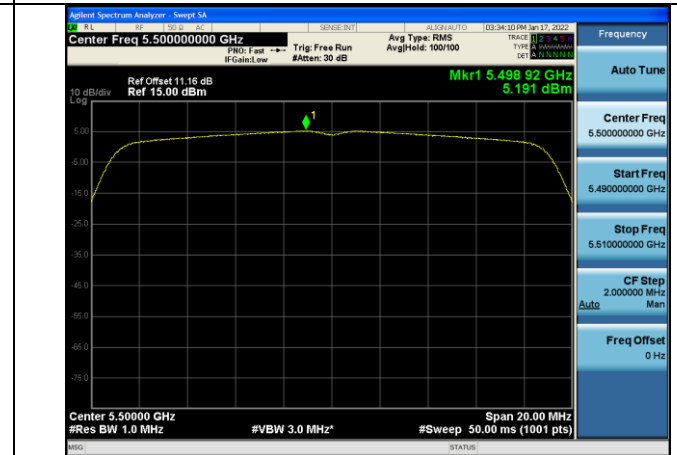
Test Mode:802.11n HT20 5500MHz Chain0



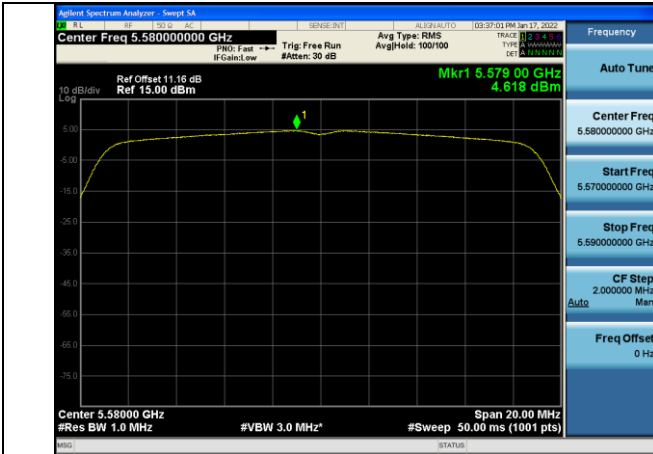
Test Mode:802.11n HT20 5580MHz Chain0



Test Mode:802.11n HT20 5700MHz Chain0



Test Mode:802.11n HT20 5500MHz Chain1

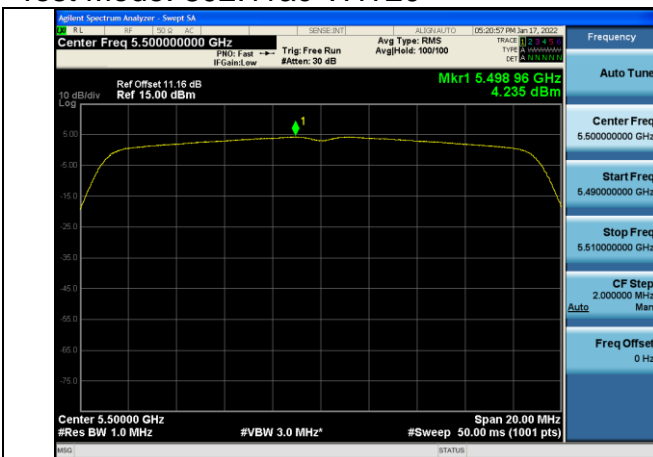


Test Mode:802.11n HT20 5580MHz Chain1

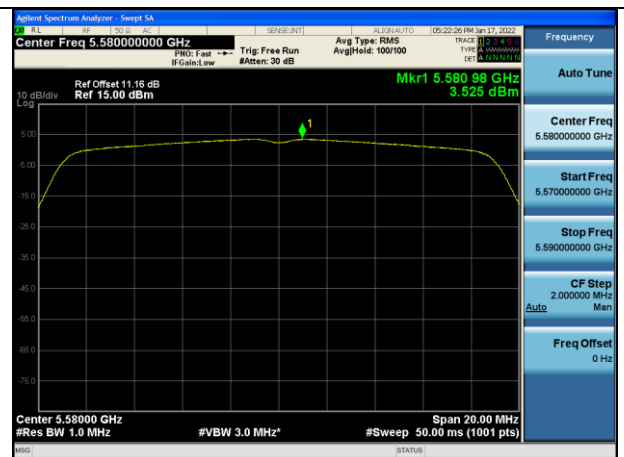


Test Mode:802.11n HT20 5700MHz Chain1

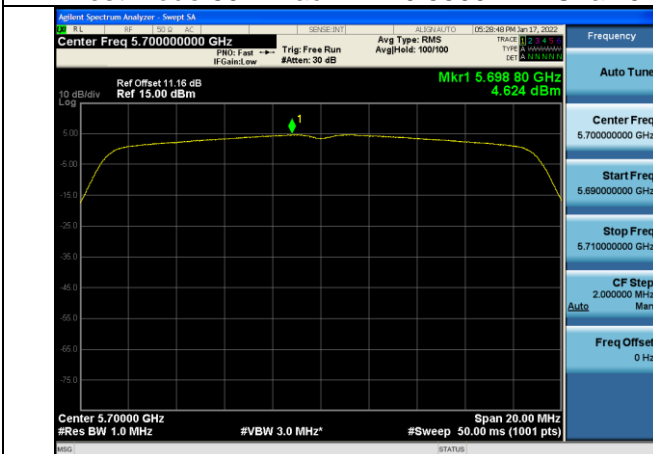
Test Mode: 802.11ac VHT20



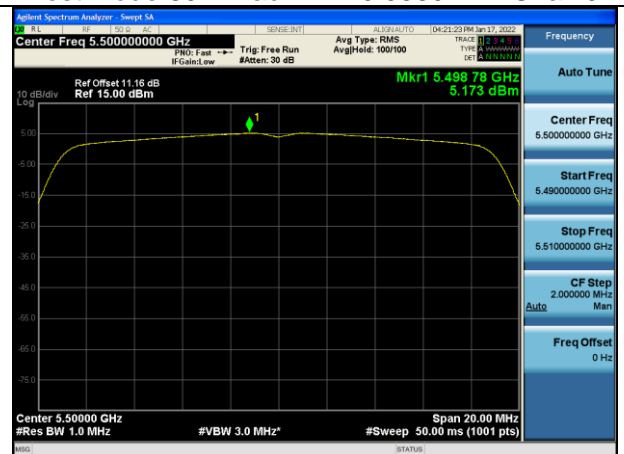
Test Mode:802.11ac VHT20 5500MHz Chain0



Test Mode:802.11ac VHT20 5580MHz Chain0



Test Mode:802.11ac VHT20 5700MHz Chain0



Test Mode:802.11ac VHT20 5500MHz Chain1