

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5260	87.67%	0.57
802.11a	5260	87.78%	0.57
802.11n HT20	5260	87.89%	0.56
802.11n HT20	5260	87.78%	0.57
802.11ac VHT20	5260	87.68%	0.57
802.11ac VHT20	5260	87.50%	0.58
802.11n HT40	5270	81.04%	0.91
802.11n HT40	5270	80.28%	0.95
802.11ac VHT40	5270	80.39%	0.95
802.11ac VHT40	5270	79.93%	0.97
802.11ac VHT80	5290	73.50%	1.34
802.11ac VHT80	5290	73.59%	1.33

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	5260	Chain0	16.44	20.51
802.11a	NA	5260	Chain1	14.54	17.04
802.11a	NA	5280	Chain0	16.62	20.69
802.11a	NA	5280	Chain1	14.83	17.33
802.11a	NA	5320	Chain0	16.84	20.91
802.11a	NA	5320	Chain1	15.13	17.63
802.11n HT20	NA	5260	Chain0	16.85	20.92
802.11n HT20	NA	5260	Chain1	13.61	16.11
802.11n HT20	NA	5260	MIMO	18.54	21.89
802.11n HT20	NA	5280	Chain0	16.49	20.56
802.11n HT20	NA	5280	Chain1	14.41	16.91
802.11n HT20	NA	5280	MIMO	18.58	21.93
802.11n HT20	NA	5320	Chain0	16.57	20.64
802.11n HT20	NA	5320	Chain1	14.34	16.84
802.11n HT20	NA	5320	MIMO	18.61	21.96
802.11ac VHT20	NA	5260	Chain0	16.33	20.40
802.11ac VHT20	NA	5260	Chain1	13.91	16.41
802.11ac VHT20	NA	5260	MIMO	18.30	21.65
802.11ac VHT20	NA	5280	Chain0	16.71	20.78
802.11ac VHT20	NA	5280	Chain1	14.27	16.77
802.11ac VHT20	NA	5280	MIMO	18.67	22.02
802.11ac VHT20	NA	5320	Chain0	16.35	20.42
802.11ac VHT20	NA	5320	Chain1	14.48	16.98
802.11ac VHT20	NA	5320	MIMO	18.53	21.88
802.11n HT40	NA	5270	Chain0	15.44	19.51
802.11n HT40	NA	5270	Chain1	12.63	15.13
802.11n HT40	NA	5270	MIMO	17.27	20.62
802.11n HT40	NA	5310	Chain0	15.59	19.66
802.11n HT40	NA	5310	Chain1	13.14	15.64
802.11n HT40	NA	5310	MIMO	17.55	20.90
802.11ac VHT40	NA	5270	Chain0	15.47	19.54
802.11ac VHT40	NA	5270	Chain1	12.71	15.21
802.11ac VHT40	NA	5270	MIMO	17.32	20.67
802.11ac VHT40	NA	5310	Chain0	15.37	19.44
802.11ac VHT40	NA	5310	Chain1	13.17	15.67
802.11ac VHT40	NA	5310	MIMO	17.42	20.77
802.11ac VHT80	NA	5290	Chain0	13.64	17.71
802.11ac VHT80	NA	5290	Chain1	11.58	14.08
802.11ac VHT80	NA	5290	MIMO	15.74	19.09

Emission Bandwidth

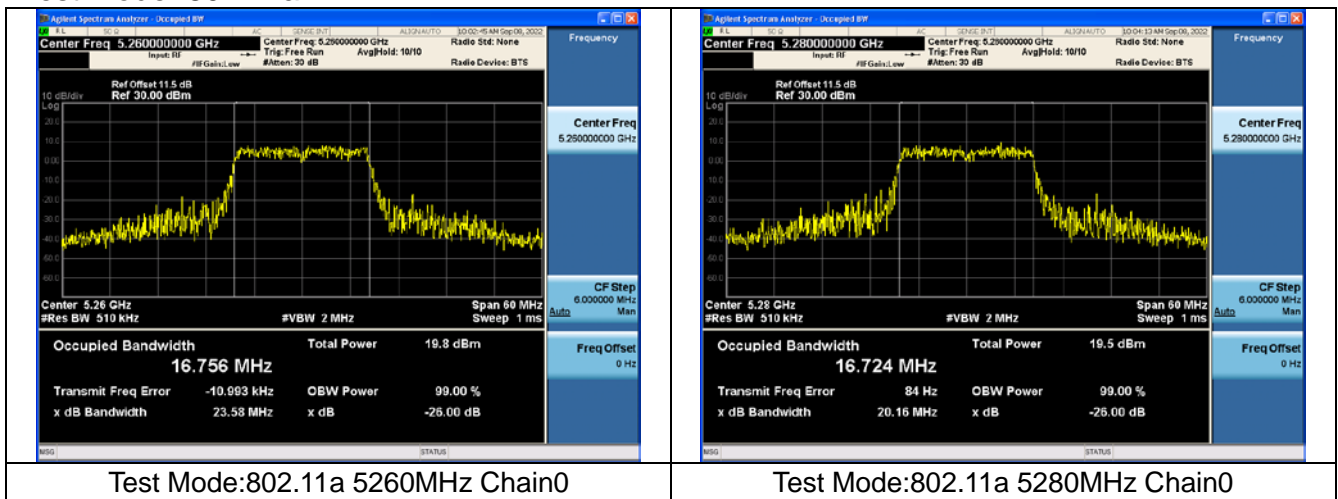
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

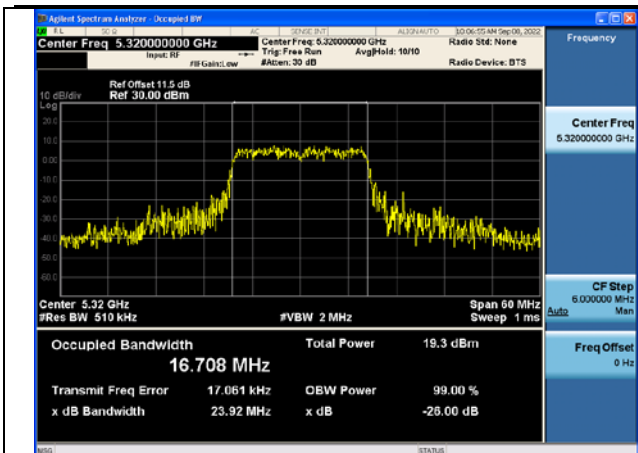
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	23.58	20.16	23.92
802.11a	Chain1	20.53	19.42	18.94
802.11n HT20	Chain0	20.47	22.16	19.44
802.11n HT20	Chain1	22.27	21.12	22.09
802.11ac VHT20	Chain0	19.55	22.74	22.30
802.11ac VHT20	Chain1	22.51	22.46	21.50

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	49.50	---	41.87
802.11n HT40	Chain1	40.50	---	40.79
802.11ac VHT40	Chain0	40.09	---	42.69
802.11ac VHT40	Chain1	40.03	---	40.73

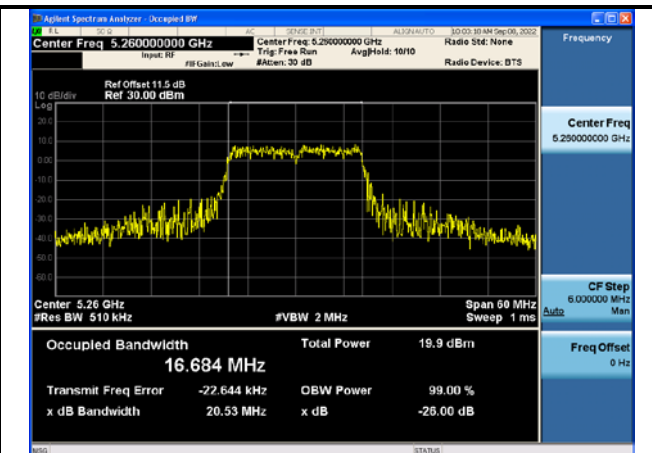
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	80.51	---	---
802.11ac VHT80	Chain1	81.34	---	---

Test Mode: 802.11a

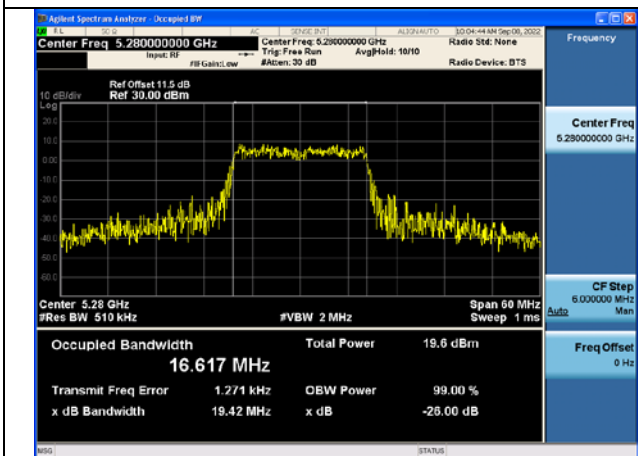




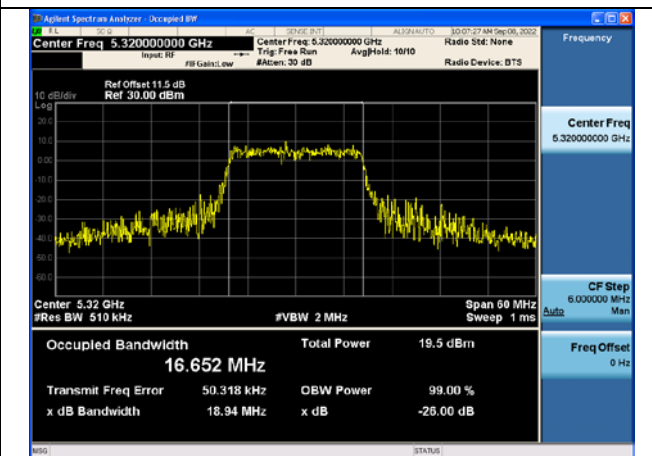
Test Mode:802.11a 5320MHz Chain0



Test Mode:802.11a 5260MHz Chain1

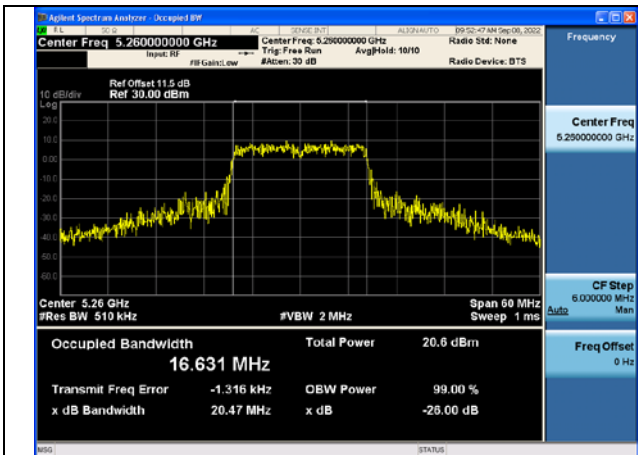


Test Mode:802.11a 5280MHz Chain1

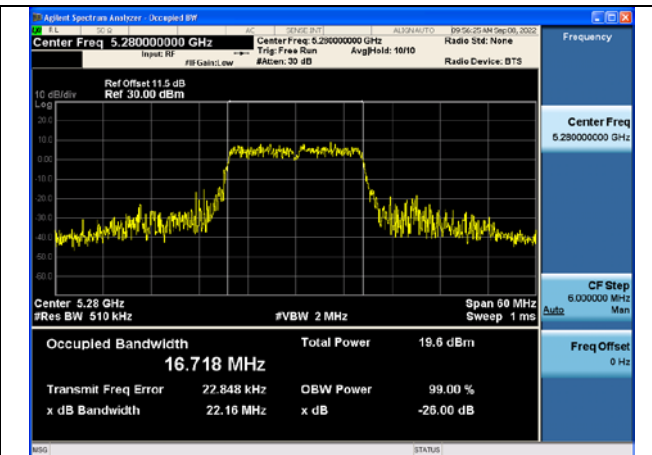


Test Mode:802.11a 5320MHz Chain1

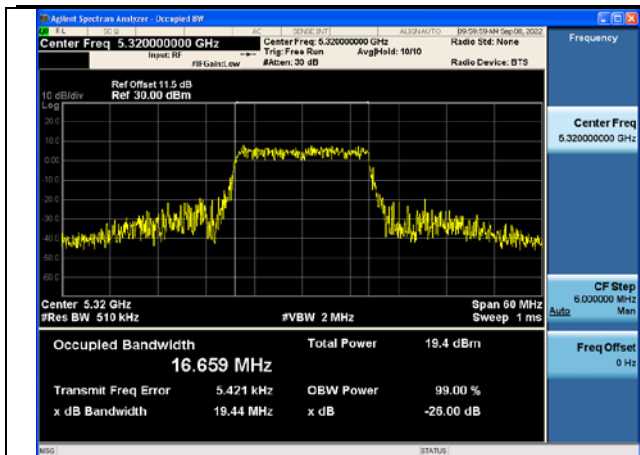
Test Mode: 802.11n HT20



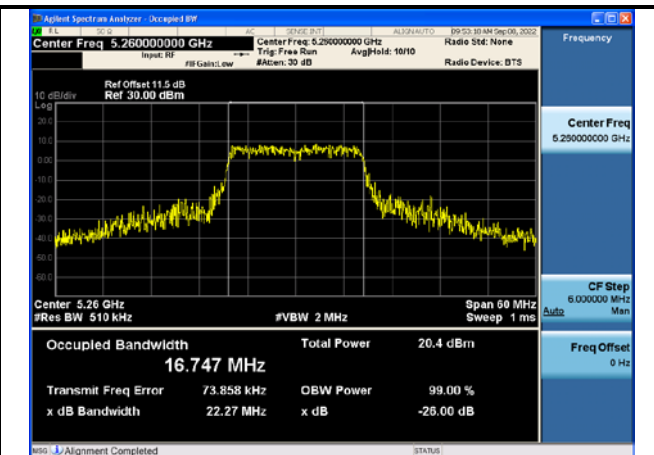
Test Mode:802.11n HT20 5260MHz Chain0



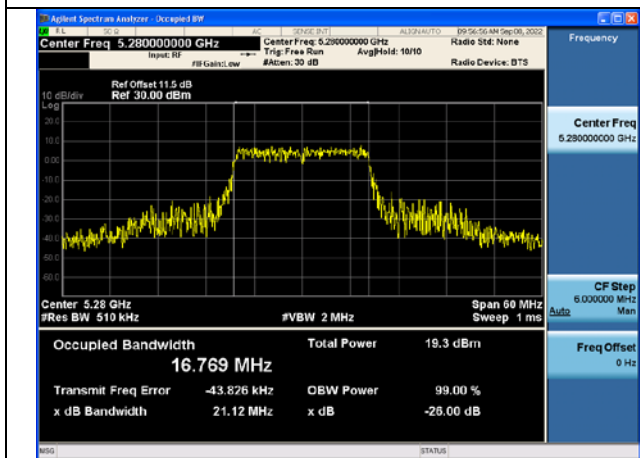
Test Mode:802.11n HT20 5280MHz Chain0



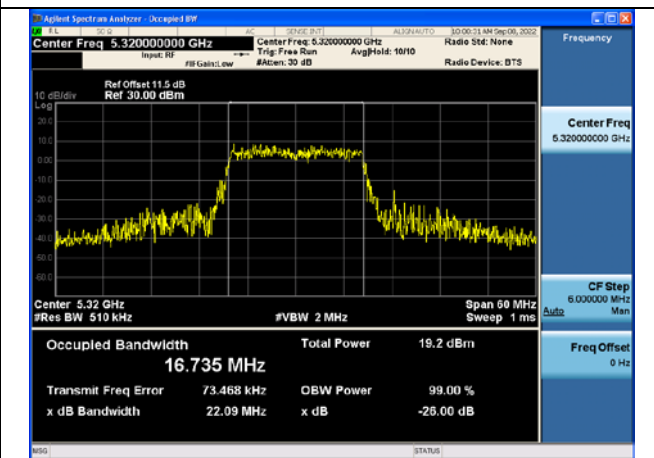
Test Mode:802.11n HT20 5320MHz Chain0



Test Mode:802.11n HT20 5260MHz Chain1

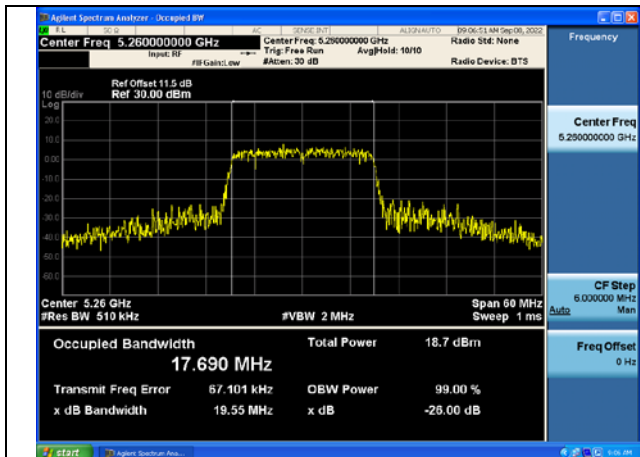


Test Mode:802.11n HT20 5280MHz Chain1

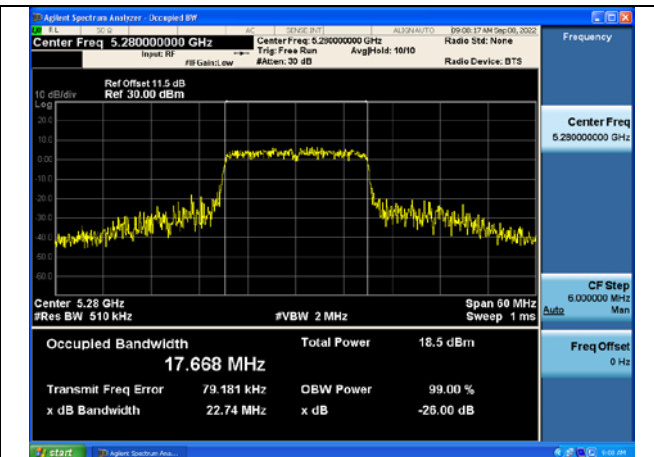


Test Mode:802.11n HT20 5320MHz Chain1

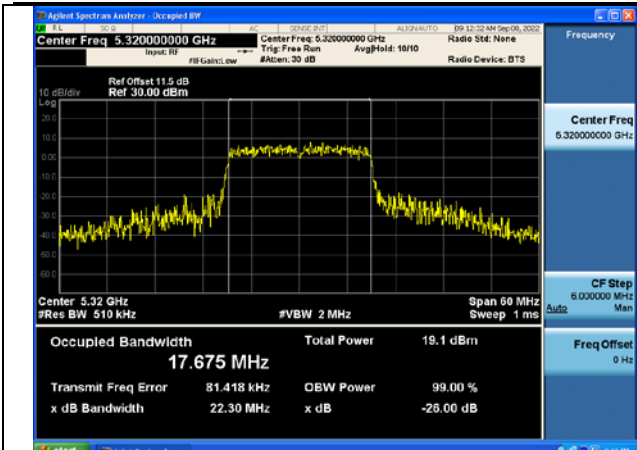
Test Mode: 802.11ac VHT20



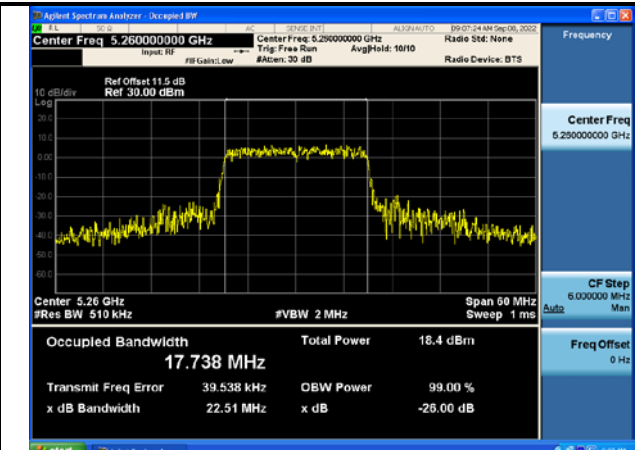
Test Mode:802.11ac VHT20 5260MHz Chain0



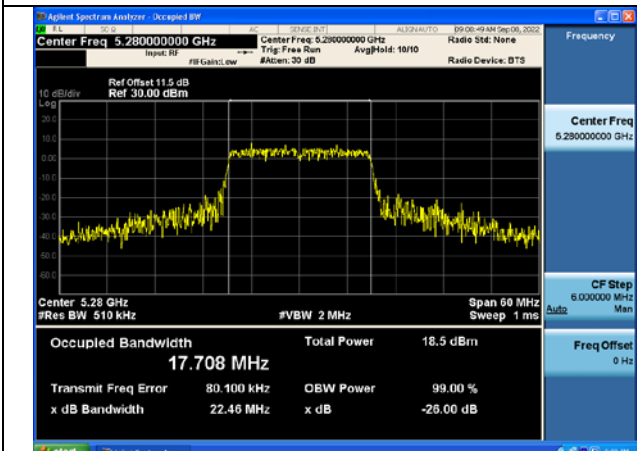
Test Mode:802.11ac VHT20 5280MHz Chain0



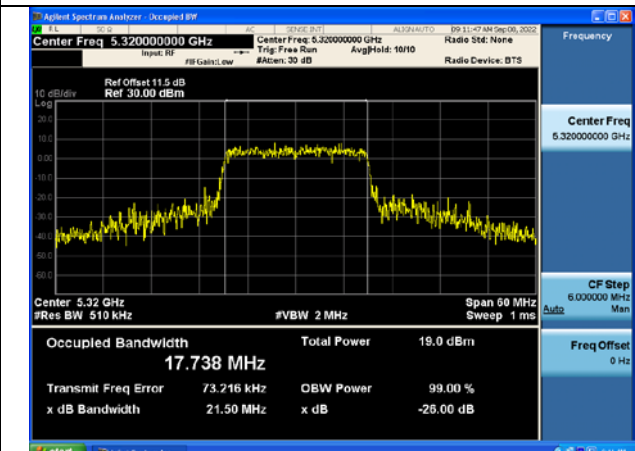
Test Mode:802.11ac VHT20 5320MHz Chain0



Test Mode:802.11ac VHT20 5260MHz Chain1

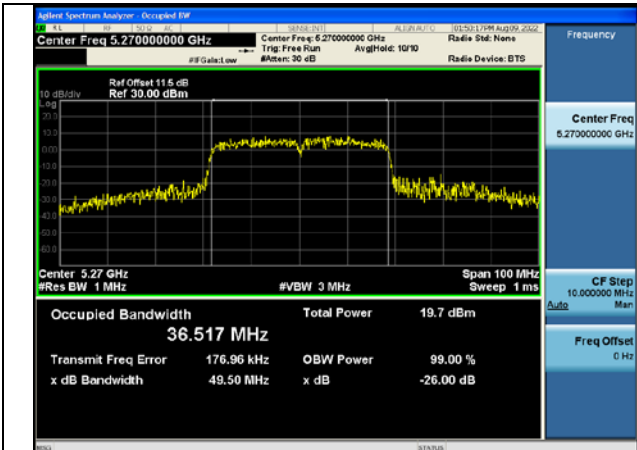


Test Mode:802.11ac VHT20 5280MHz Chain1

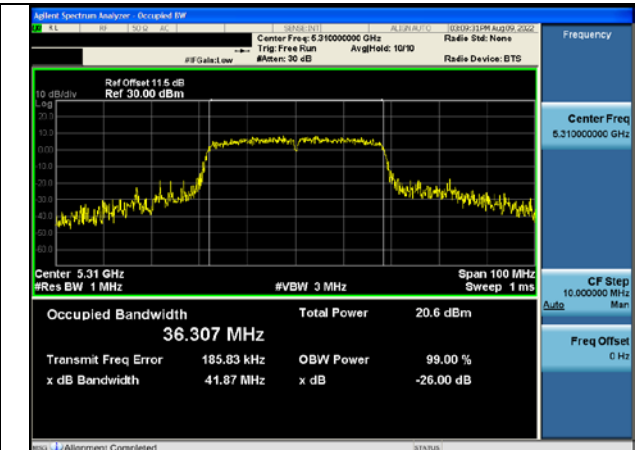


Test Mode:802.11ac VHT20 5320MHz Chain1

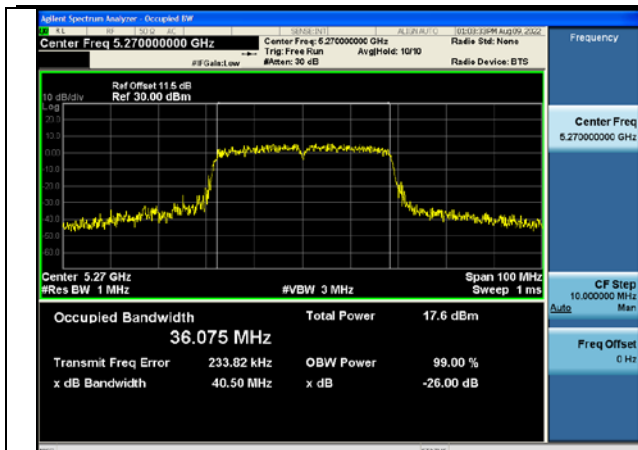
Test Mode: 802.11n HT40



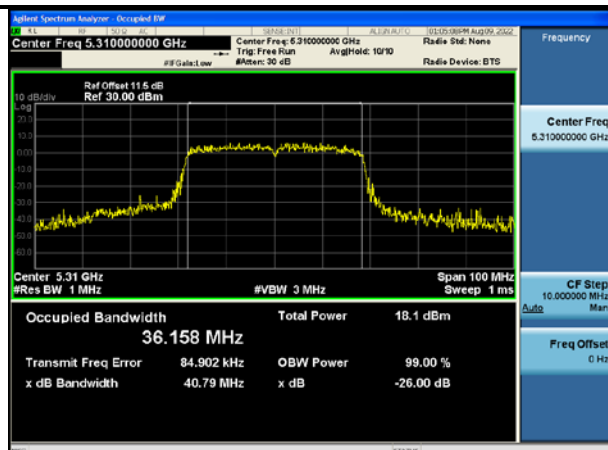
Test Mode:802.11n HT40 5270MHz Chain0



Test Mode:802.11n HT40 5310MHz Chain0

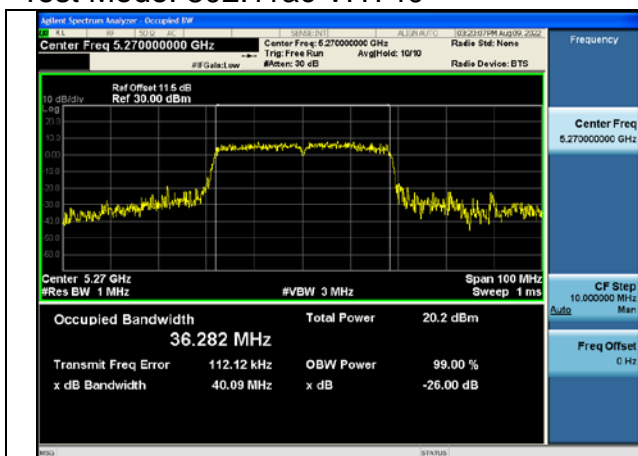


Test Mode:802.11n HT40 5270MHz Chain1

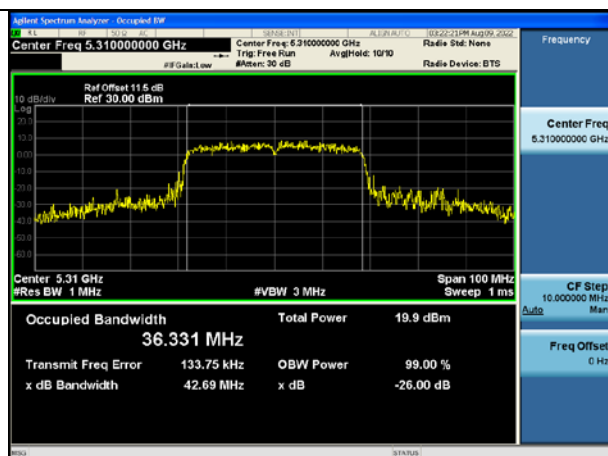


Test Mode:802.11n HT40 5310MHz Chain1

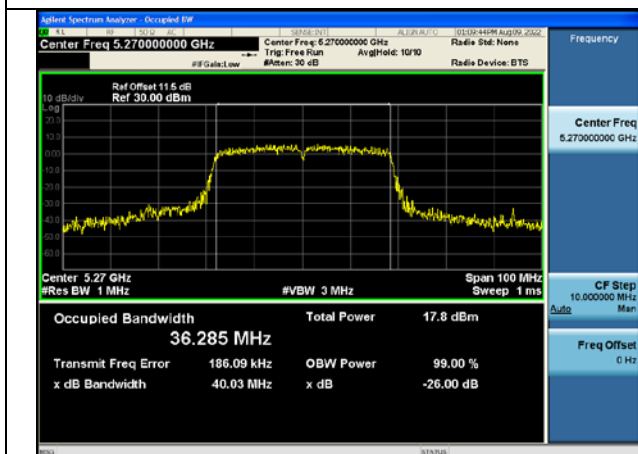
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

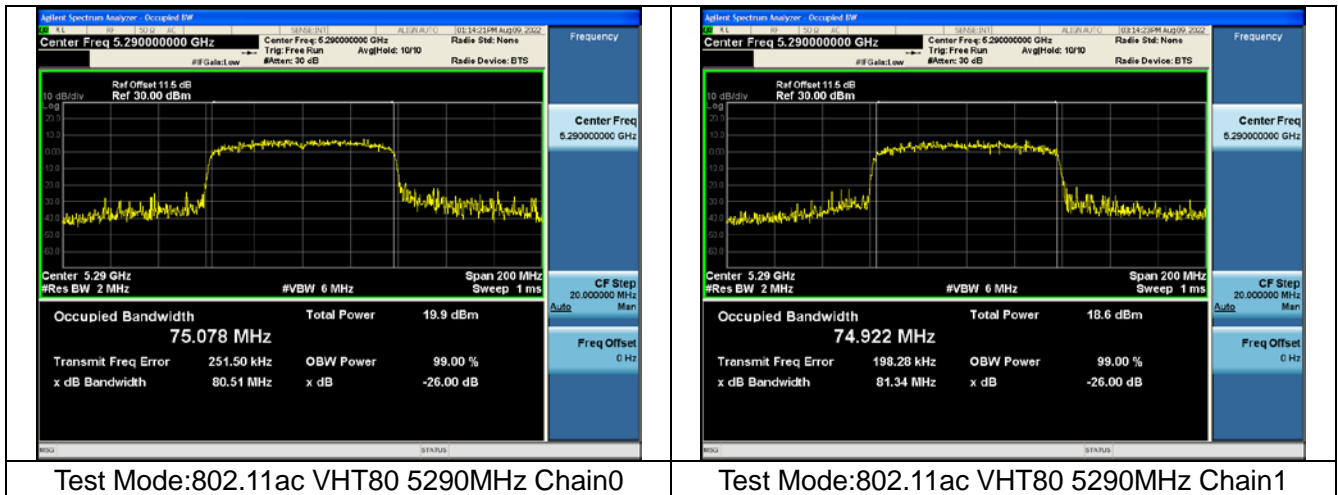


Test Mode:802.11ac VHT40 5270MHz Chain1



Test Mode:802.11ac VHT40 5310MHz Chain1

Test Mode: 802.11ac VHT80



Occupied Bandwidth

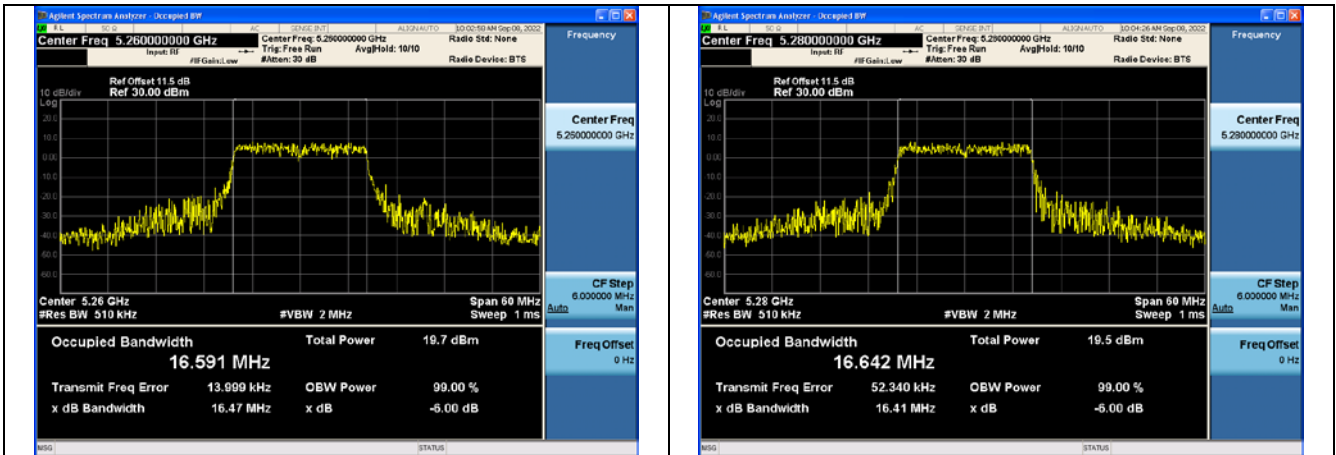
Offset 11.5dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.591	16.642	16.895
802.11a	Chain1	16.725	16.764	16.647
802.11n HT20	Chain0	16.794	16.702	16.722
802.11n HT20	Chain1	16.652	16.721	16.654
802.11ac VHT20	Chain0	17.713	17.717	17.730
802.11ac VHT20	Chain1	17.725	17.676	17.703

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.280	---	36.175
802.11n HT40	Chain1	36.235	---	36.213
802.11ac VHT40	Chain0	36.303	---	36.300
802.11ac VHT40	Chain1	36.377	---	36.190

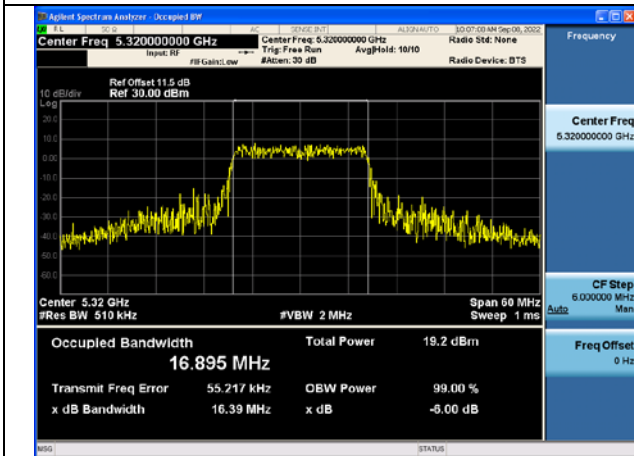
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	74.608	---	---
802.11ac VHT80	Chain1	75.107	---	---

Test Mode: 802.11a

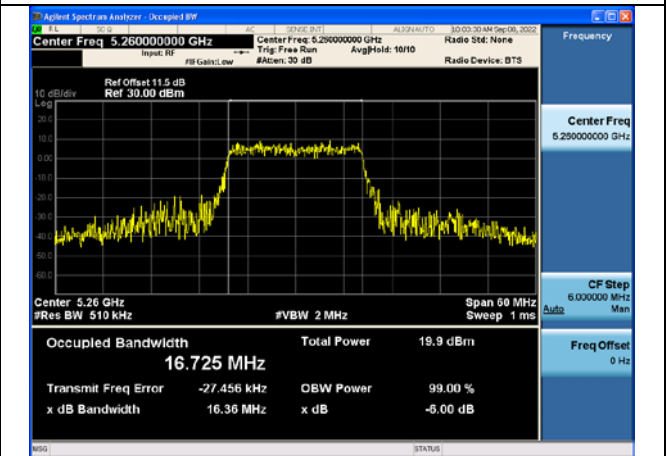


Test Mode:802.11a 5260MHz Chain0

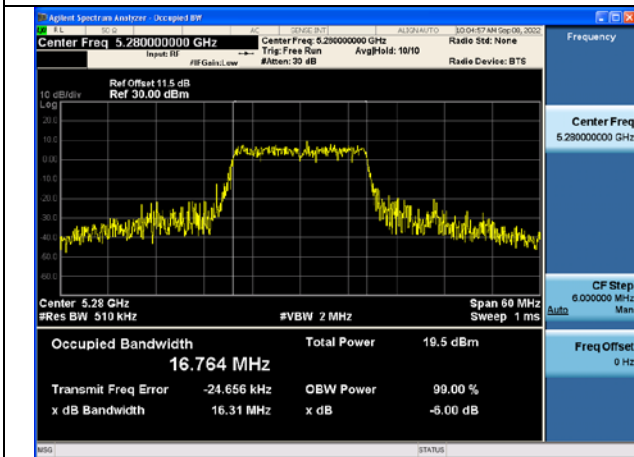
Test Mode:802.11a 5280MHz Chain0



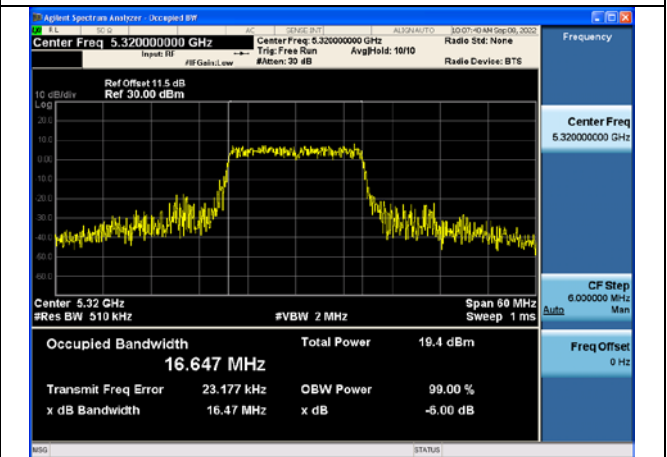
Test Mode:802.11a 5320MHz Chain0



Test Mode:802.11a 5260MHz Chain1

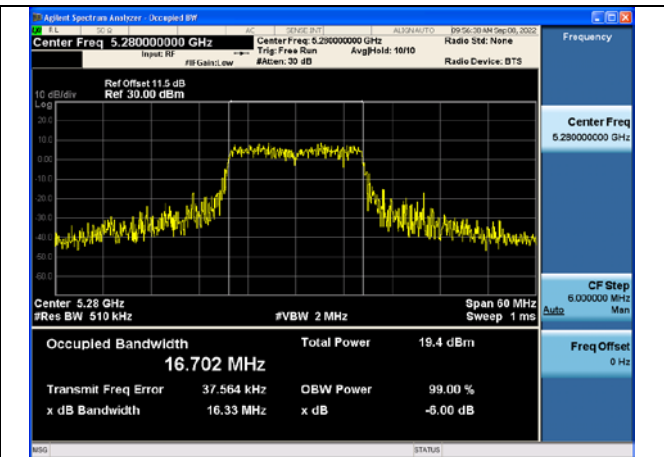
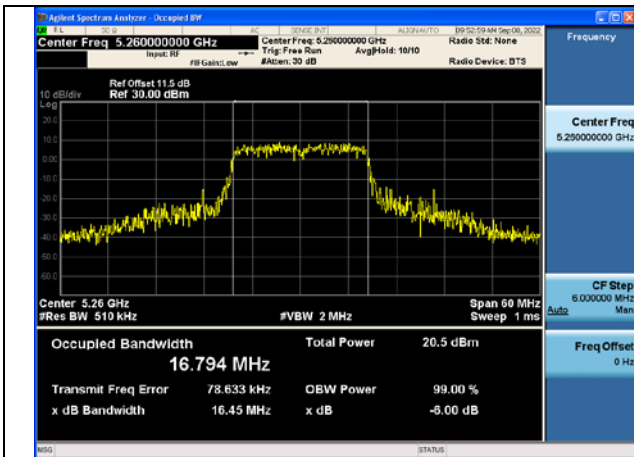


Test Mode:802.11a 5280MHz Chain1



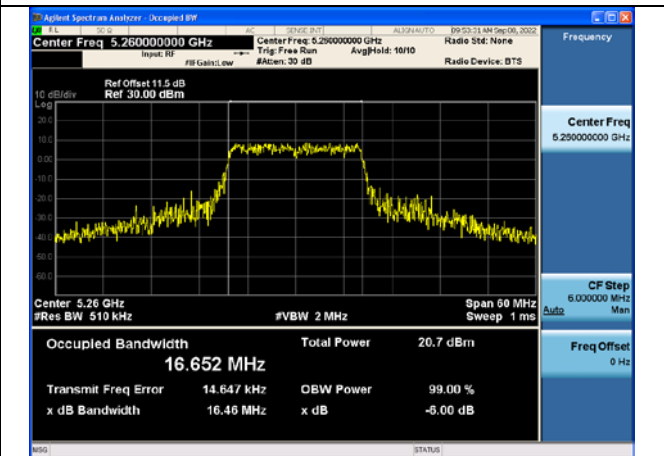
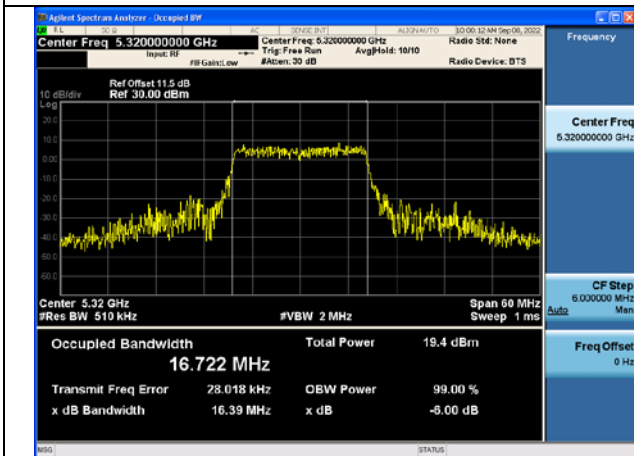
Test Mode:802.11a 5320MHz Chain1

Test Mode: 802.11n HT20



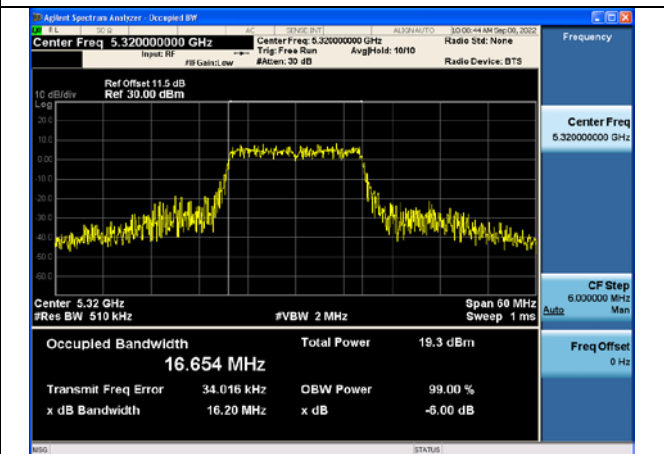
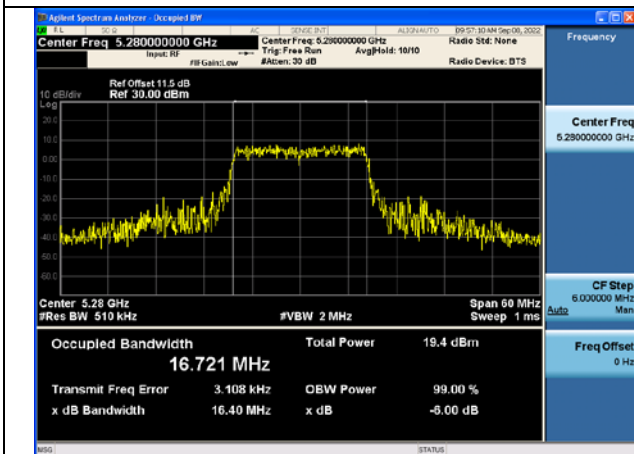
Test Mode:802.11n HT20 5260MHz Chain0

Test Mode:802.11n HT20 5280MHz Chain0



Test Mode:802.11n HT20 5320MHz Chain0

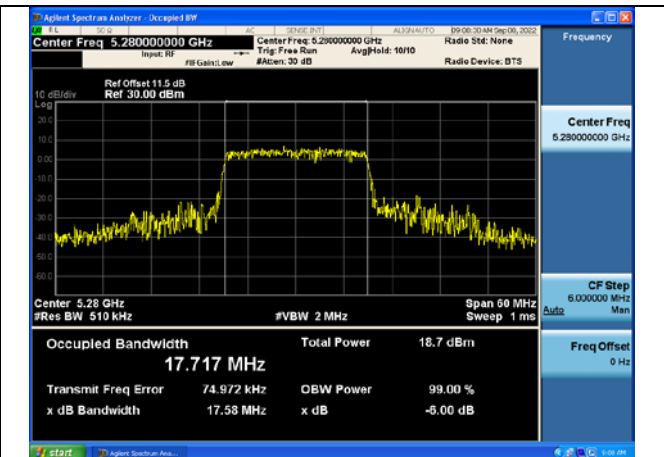
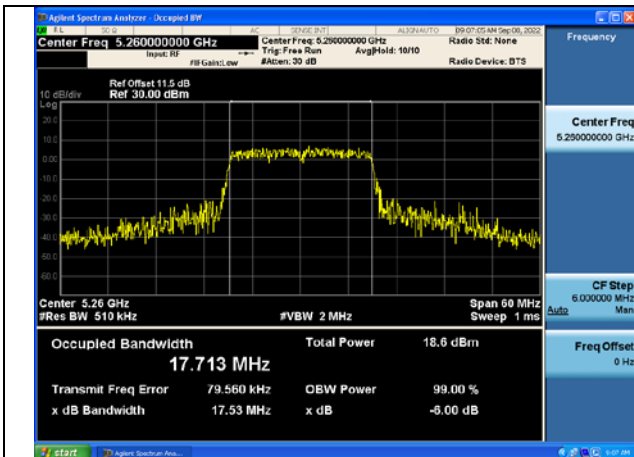
Test Mode:802.11n HT20 5260MHz Chain1



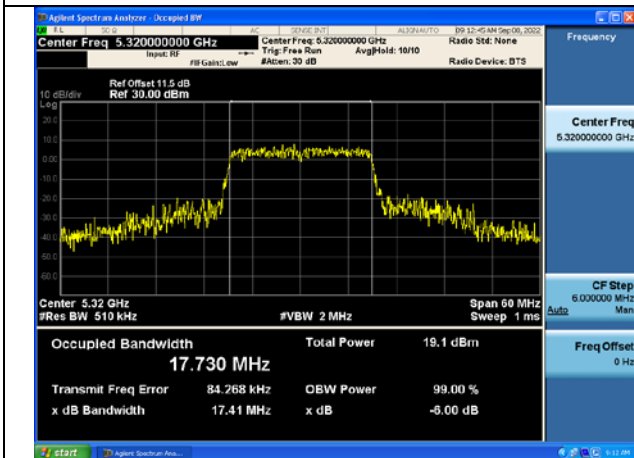
Test Mode:802.11n HT20 5280MHz Chain1

Test Mode:802.11n HT20 5320MHz Chain1

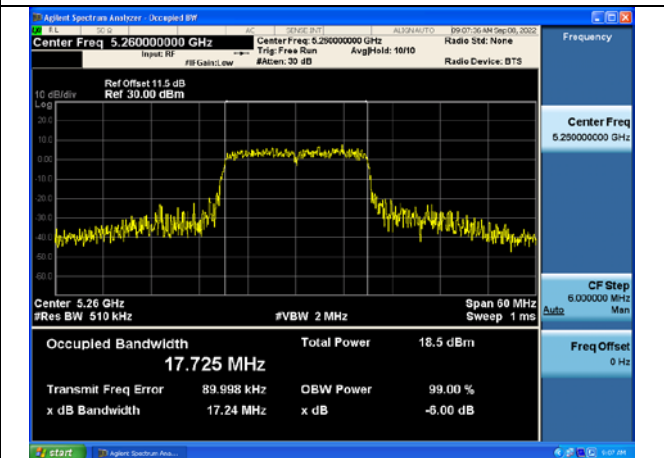
Test Mode: 802.11ac VHT20



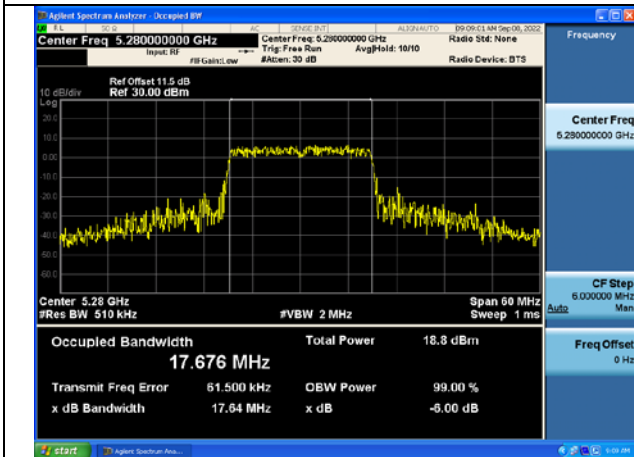
Test Mode:802.11ac VHT20 5260MHz Chain0



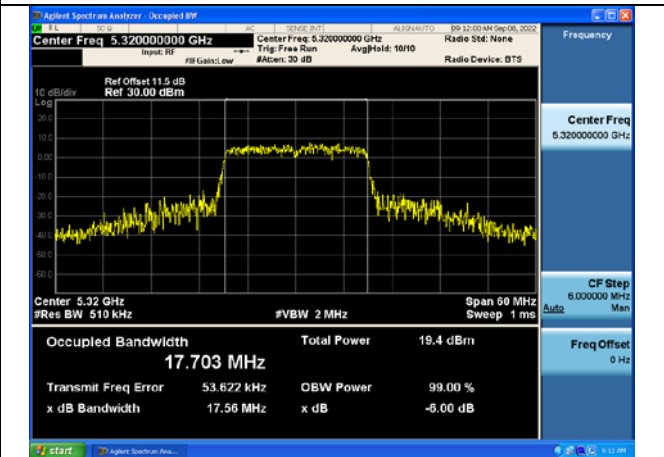
Test Mode:802.11ac VHT20 5280MHz Chain0



Test Mode:802.11ac VHT20 5320MHz Chain0



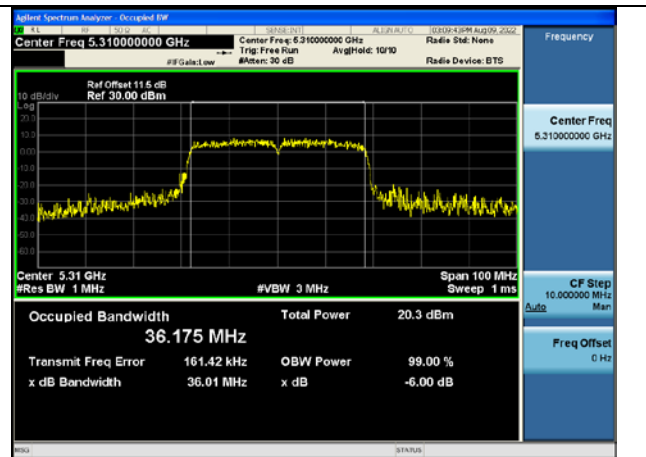
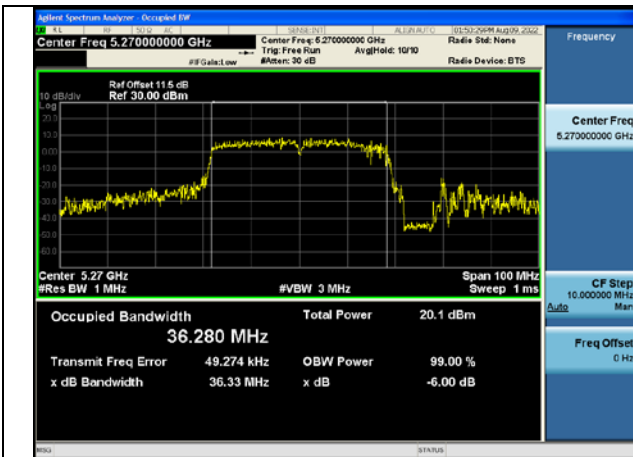
Test Mode:802.11ac VHT20 5260MHz Chain1



Test Mode:802.11ac VHT20 5280MHz Chain1

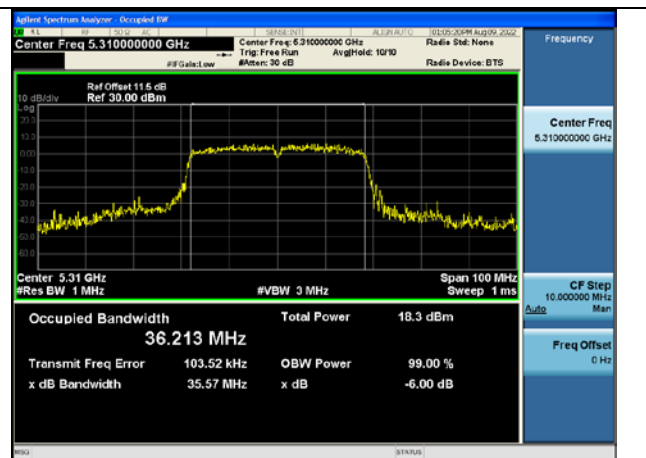
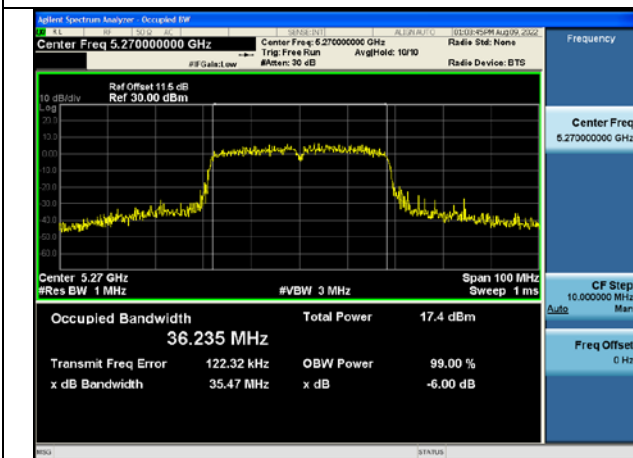
Test Mode:802.11ac VHT20 5320MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5270MHz Chain0

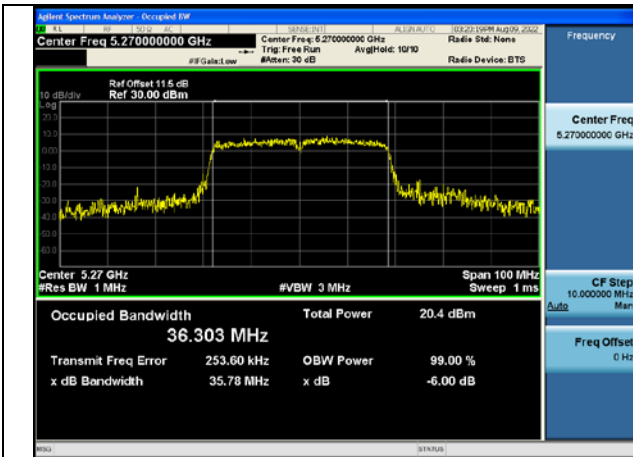
Test Mode:802.11n HT40 5310MHz Chain0



Test Mode:802.11n HT40 5270MHz Chain1

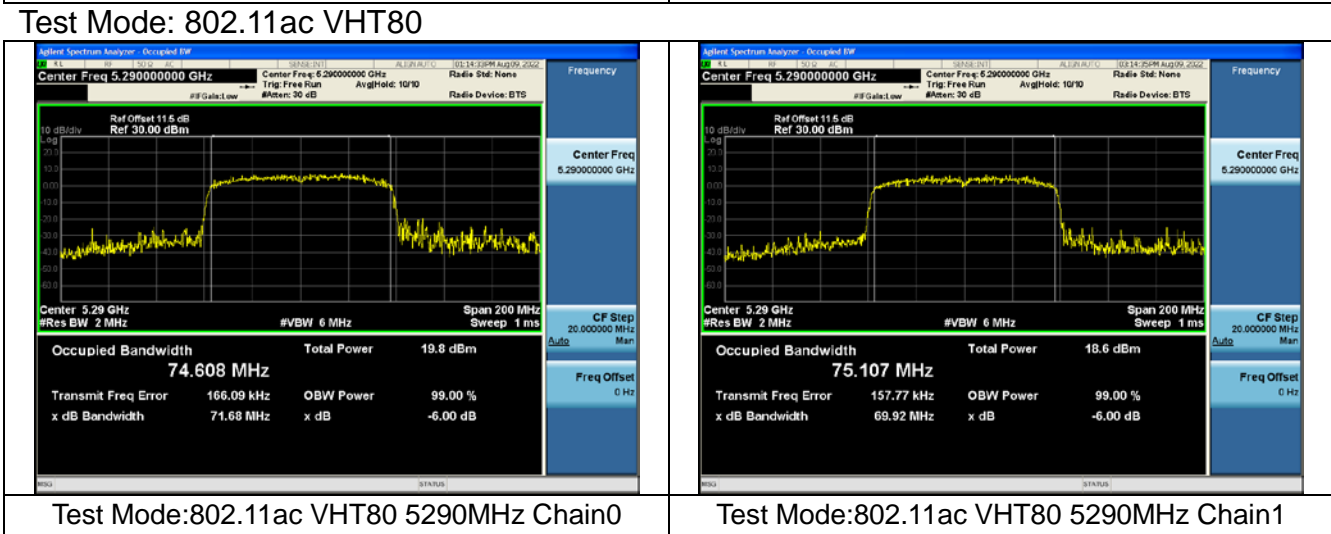
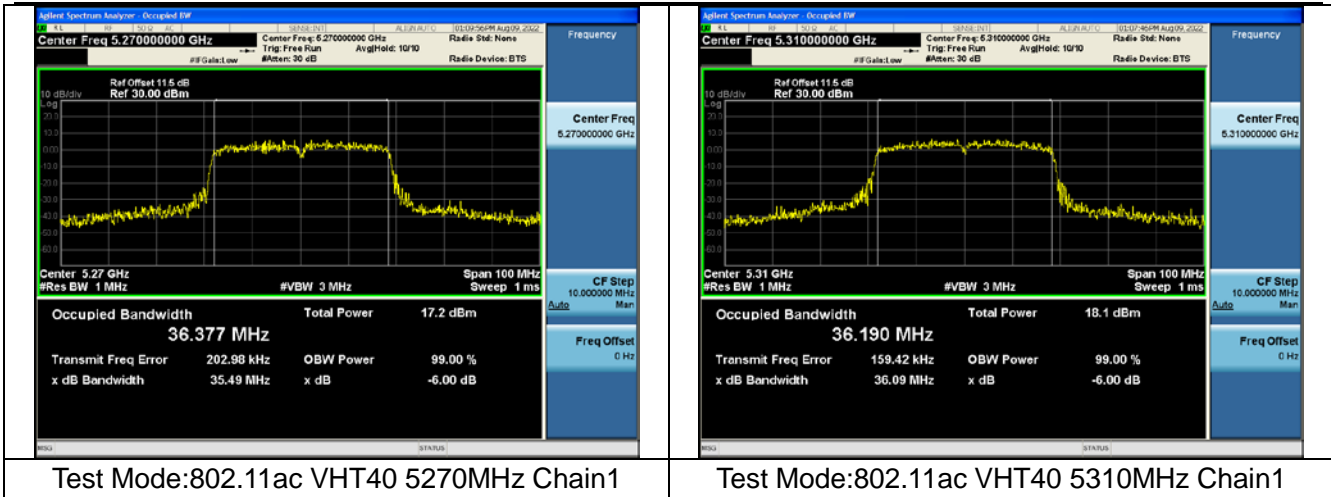
Test Mode:802.11n HT40 5310MHz Chain1

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5270MHz Chain0

Test Mode:802.11ac VHT40 5310MHz Chain0



Transmitter Power Spectral Density

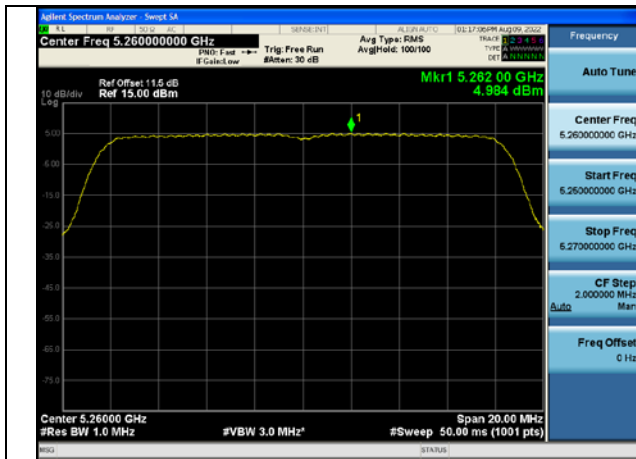
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	5260MHz		5280MHz		5320MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0.57	5.554	0.57	5.747	0.57	6.150
802.11a	Chain1	0.57	3.693	0.57	4.215	0.57	4.418
802.11n HT20	Chain0	0.56	5.672	0.56	5.552	0.56	5.386
802.11n HT20	Chain1	0.56	2.611	0.56	3.463	0.56	3.257
802.11n HT20	MIMO	0.56	7.416	0.56	7.642	0.56	7.461
802.11ac VHT20	Chain0	0.57	4.844	0.57	5.714	0.57	5.394
802.11ac VHT20	Chain1	0.57	2.760	0.57	3.158	0.57	3.493
802.11ac VHT20	MIMO	0.57	6.936	0.57	7.632	0.57	7.557

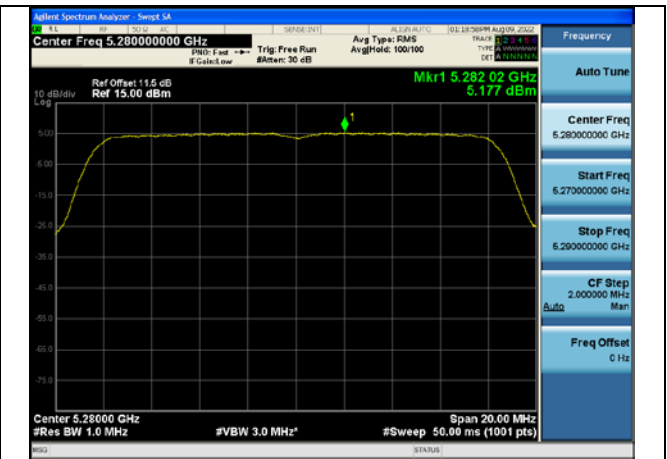
Test Mode	Antenna	5270MHz		---		5310MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0.91	2.751	---	---	0.91	2.421
802.11n HT40	Chain1	0.91	-0.071	---	---	0.91	0.111
802.11n HT40	MIMO	0.91	4.576	---	---	0.91	4.428
802.11ac VHT40	Chain0	0.95	2.705	---	---	0.95	2.085
802.11ac VHT40	Chain1	0.95	-0.400	---	---	0.95	0.378
802.11ac VHT40	MIMO	0.95	4.435	---	---	0.95	4.325

Test Mode	Antenna	5290MHz		---		---	
		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	1.34	-1.792	---	---	---	---
802.11ac VHT80	Chain1	1.34	-3.258	---	---	---	---
802.11ac VHT80	MIMO	1.34	0.547	---	---	---	---

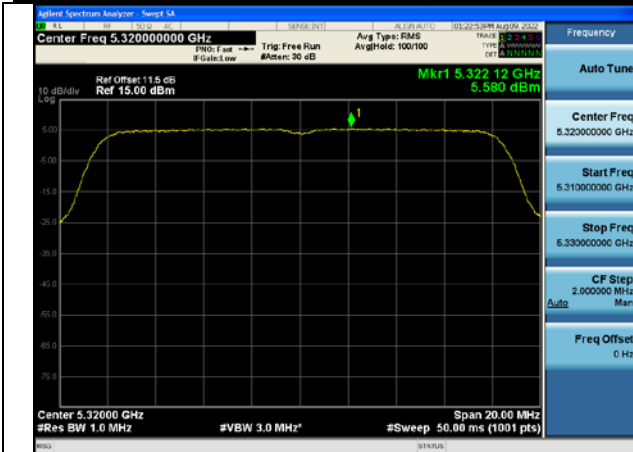
Test Mode: 802.11a



Test Mode:802.11a 5260MHz Chain0



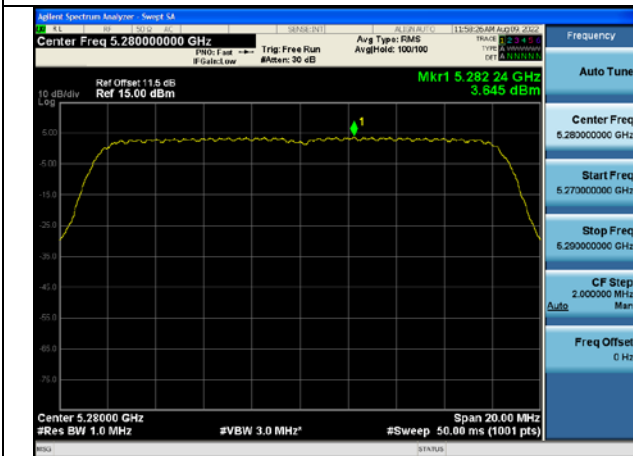
Test Mode:802.11a 5280MHz Chain0



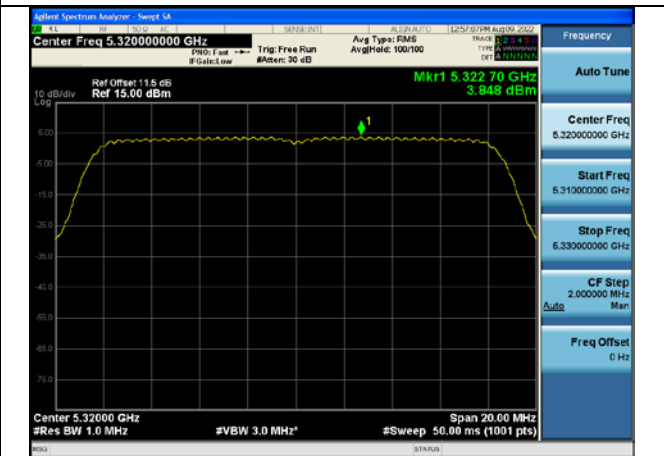
Test Mode:802.11a 5320MHz Chain0



Test Mode:802.11a 5260MHz Chain1

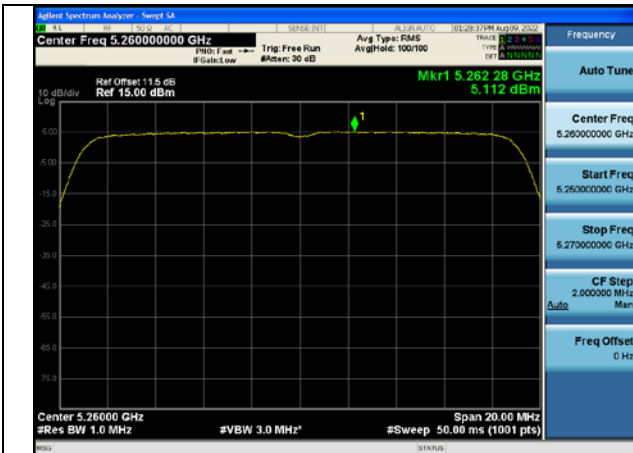


Test Mode:802.11a 5280MHz Chain1



Test Mode:802.11a 5320MHz Chain1

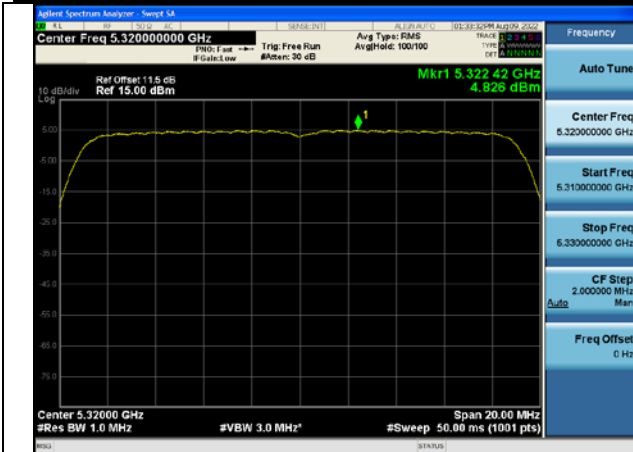
Test Mode: 802.11n HT20



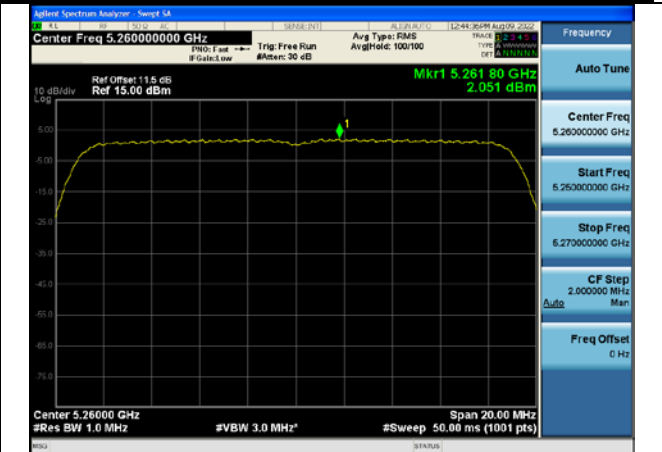
Test Mode:802.11n HT20 5260MHz Chain0



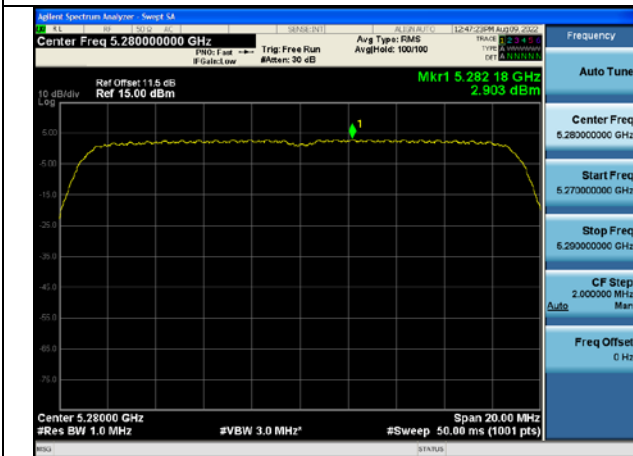
Test Mode:802.11n HT20 5280MHz Chain0



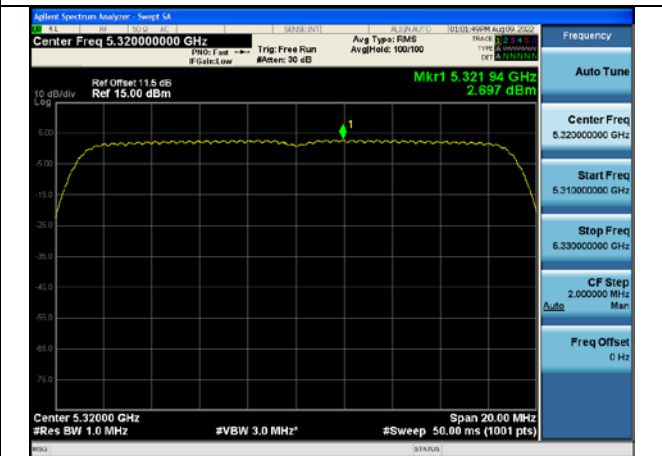
Test Mode:802.11n HT20 5320MHz Chain0



Test Mode:802.11n HT20 5260MHz Chain1

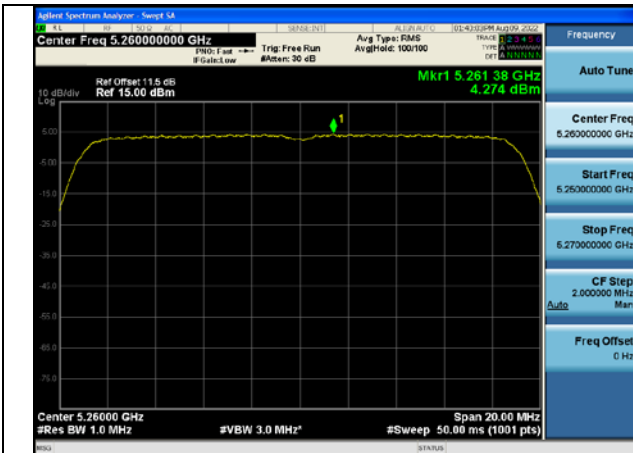


Test Mode:802.11n HT20 5280MHz Chain1



Test Mode:802.11n HT20 5320MHz Chain1

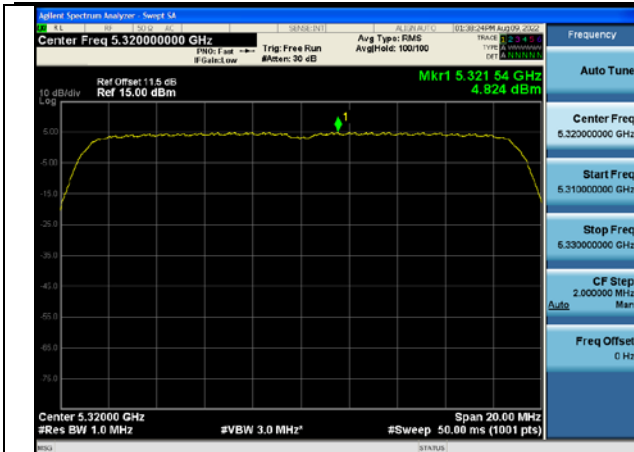
Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5260MHz Chain0



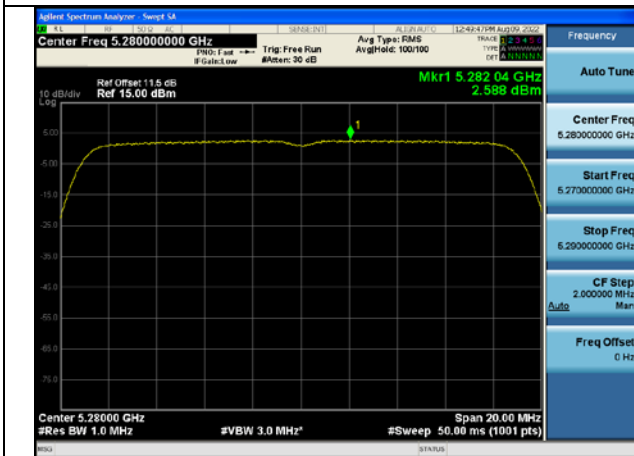
Test Mode:802.11ac VHT20 5280MHz Chain0



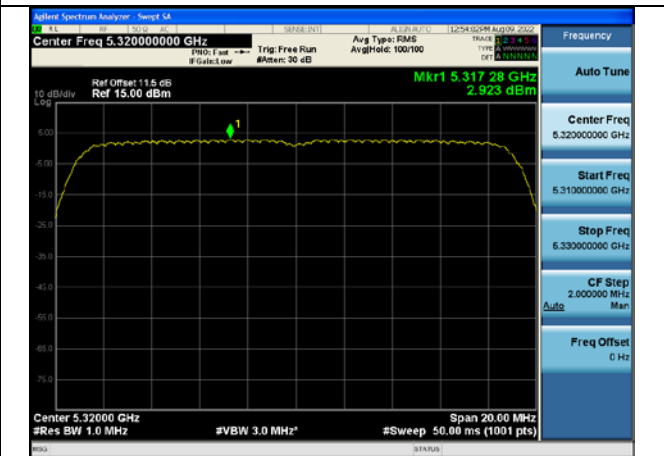
Test Mode:802.11ac VHT20 5320MHz Chain0



Test Mode:802.11ac VHT20 5260MHz Chain1

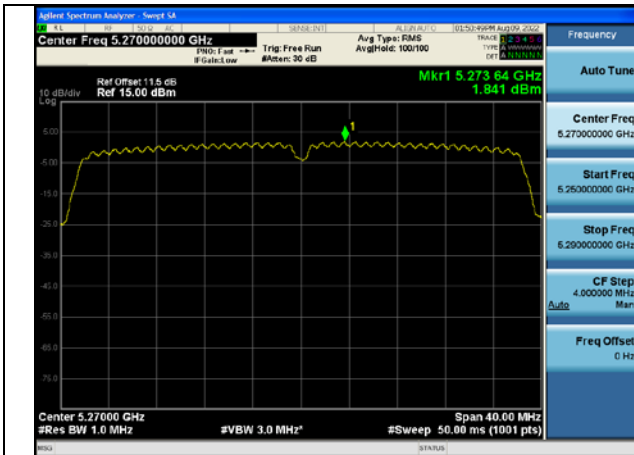


Test Mode:802.11ac VHT20 5280MHz Chain1

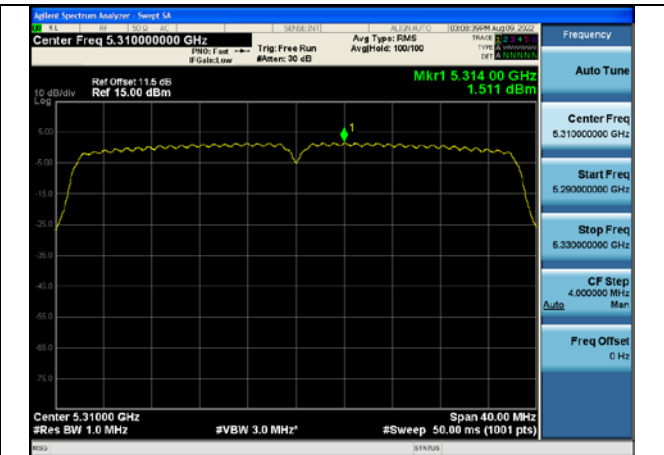


Test Mode:802.11ac VHT20 5320MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5270MHz Chain0



Test Mode:802.11n HT40 5310MHz Chain0