

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5260	98.70%	0
802.11a	5260	98.69%	0
802.11n HT20	5260	98.57%	0
802.11n HT20	5260	98.61%	0
802.11ac VHT20	5260	98.62%	0
802.11ac VHT20	5260	98.72%	0
802.11n HT40	5270	97.30%	0.12
802.11n HT40	5270	97.31%	0.12
802.11ac VHT40	5270	97.44%	0.11
802.11ac VHT40	5270	97.23%	0.12
802.11ac VHT80	5290	95.00%	0.22
802.11ac VHT80	5290	95.02%	0.22

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	15.14	19.21
802.11a	NA	5260	Chain1	15.66	19.73
802.11a	NA	5280	Chain0	15.39	19.46
802.11a	NA	5280	Chain1	16.14	20.21
802.11a	NA	5320	Chain0	16.12	20.19
802.11a	NA	5320	Chain1	16.67	20.74
802.11n HT20	NA	5260	Chain0	14.96	19.03
802.11n HT20	NA	5260	Chain1	15.58	19.65
802.11n HT20	NA	5260	MIMO	18.29	22.36
802.11n HT20	NA	5280	Chain0	15.39	19.46
802.11n HT20	NA	5280	Chain1	15.87	19.94
802.11n HT20	NA	5280	MIMO	18.65	22.72
802.11n HT20	NA	5320	Chain0	15.96	20.03
802.11n HT20	NA	5320	Chain1	16.50	20.57
802.11n HT20	NA	5320	MIMO	19.25	23.32
802.11ac VHT20	NA	5260	Chain0	14.92	18.99
802.11ac VHT20	NA	5260	Chain1	15.48	19.55
802.11ac VHT20	NA	5260	MIMO	18.22	22.29
802.11ac VHT20	NA	5280	Chain0	15.26	19.33
802.11ac VHT20	NA	5280	Chain1	15.87	19.94
802.11ac VHT20	NA	5280	MIMO	18.59	22.66
802.11ac VHT20	NA	5320	Chain0	15.94	20.01
802.11ac VHT20	NA	5320	Chain1	16.56	20.63

802.11ac VHT20	NA	5320	MIMO	19.27	23.34
802.11n HT40	NA	5270	Chain0	15.01	19.08
802.11n HT40	NA	5270	Chain1	15.61	19.68
802.11n HT40	NA	5270	MIMO	18.33	22.40
802.11n HT40	NA	5310	Chain0	15.78	19.85
802.11n HT40	NA	5310	Chain1	16.37	20.44
802.11n HT40	NA	5310	MIMO	19.10	23.17
802.11ac VHT40	NA	5270	Chain0	14.91	18.98
802.11ac VHT40	NA	5270	Chain1	15.65	19.72
802.11ac VHT40	NA	5270	MIMO	18.31	22.38
802.11ac VHT40	NA	5310	Chain0	15.57	19.64
802.11ac VHT40	NA	5310	Chain1	16.13	20.20
802.11ac VHT40	NA	5310	MIMO	18.87	22.94
802.11ac VHT80	NA	5290	Chain0	14.96	19.03
802.11ac VHT80	NA	5290	Chain1	15.60	19.67
802.11ac VHT80	NA	5290	MIMO	18.30	22.37

Emission Bandwidth

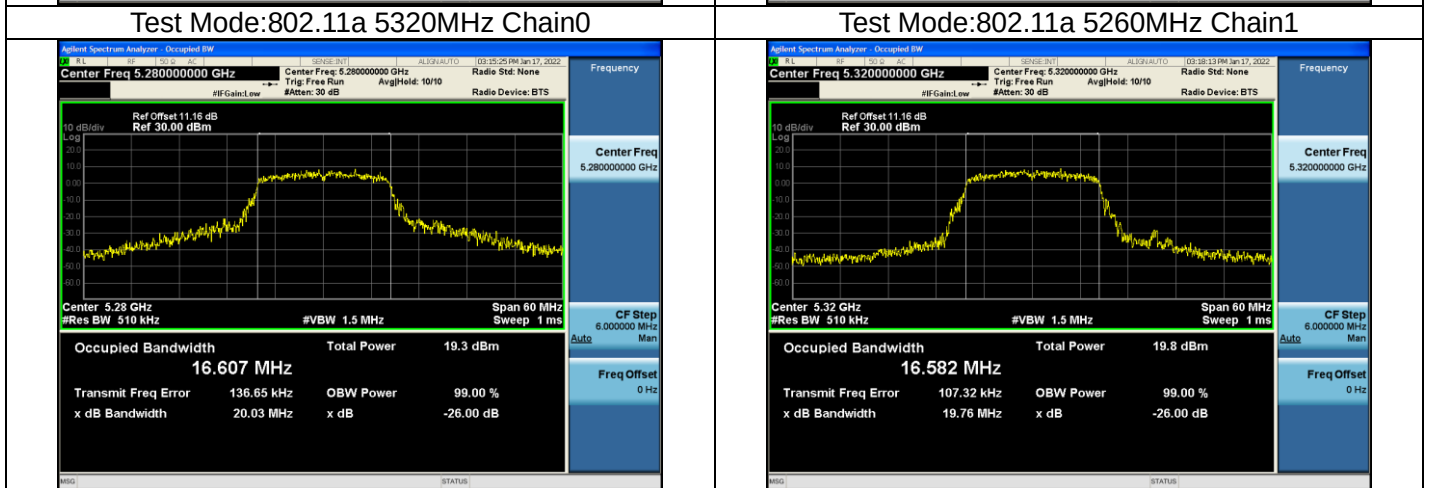
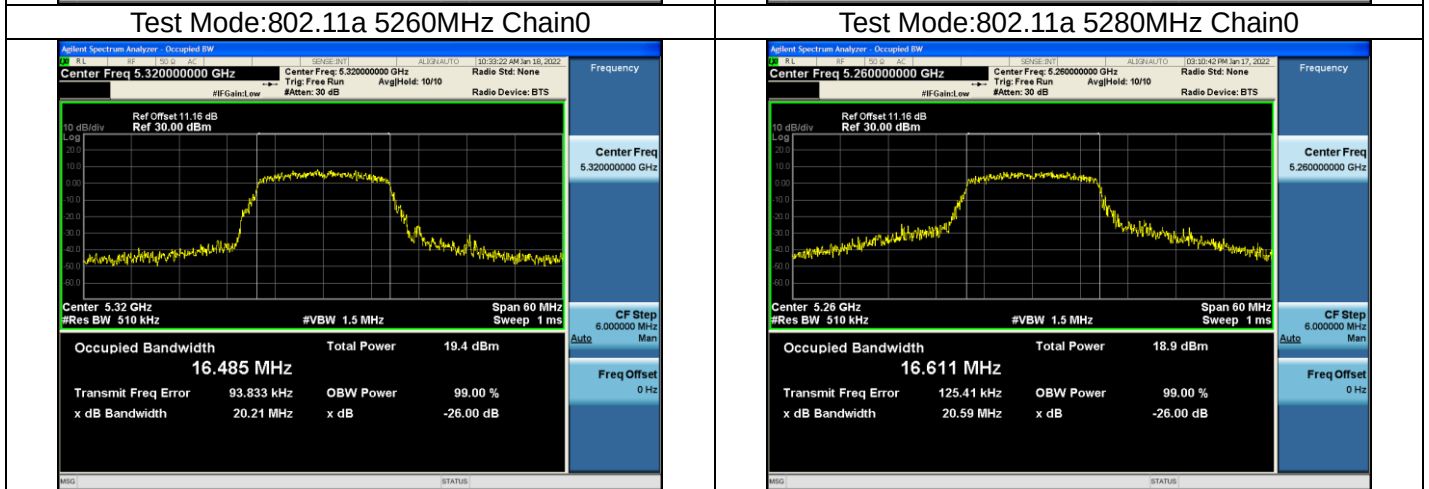
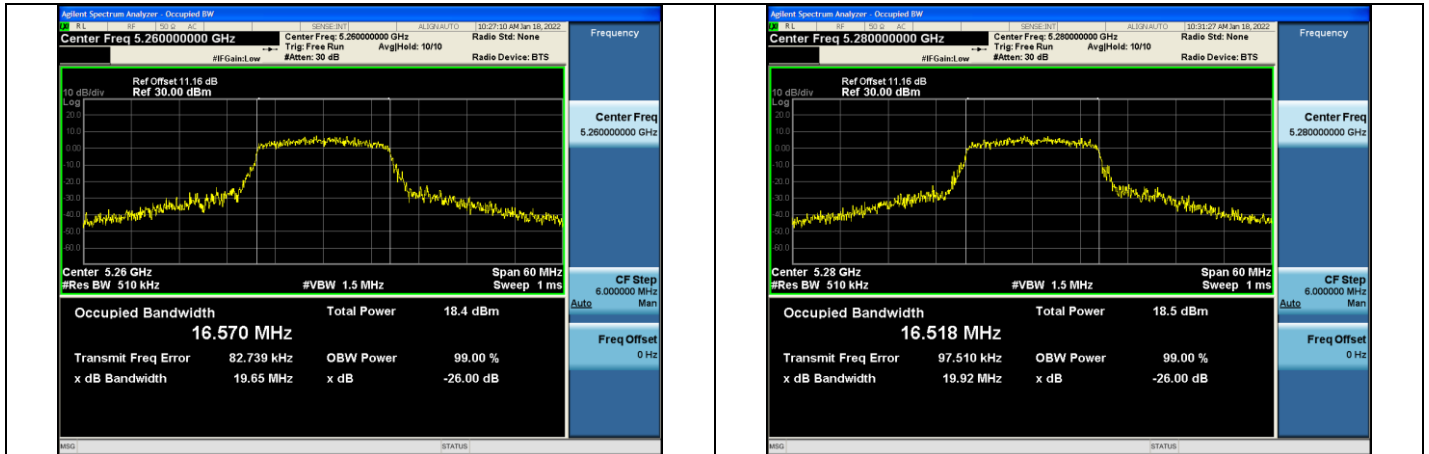
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2 dB + Cable loss 0.96 dB

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	19.65	19.92	20.21
802.11a	Chain1	20.59	20.03	19.76
802.11n HT20	Chain0	19.59	20.31	19.81
802.11n HT20	Chain1	20.70	20.49	20.20
802.11ac VHT20	Chain0	20.26	20.26	20.07
802.11ac VHT20	Chain1	20.11	21.52	20.12

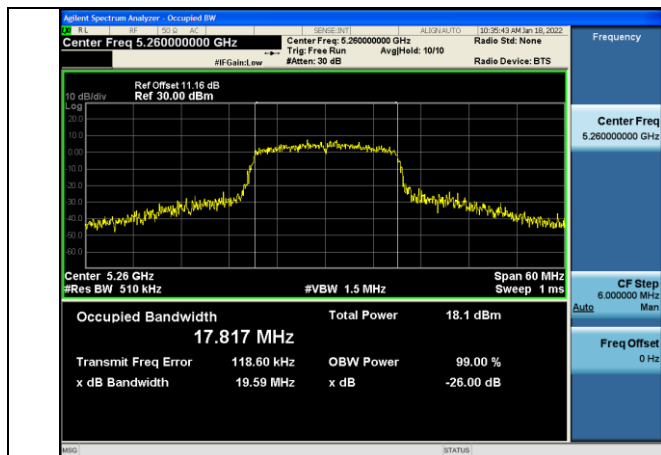
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	40.40	---	40.04
802.11n HT40	Chain1	39.82	---	40.81
802.11ac VHT40	Chain0	40.50	---	40.88
802.11ac VHT40	Chain1	40.38	---	40.41

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	81.31	---	---
802.11ac VHT80	Chain1	81.20	---	---

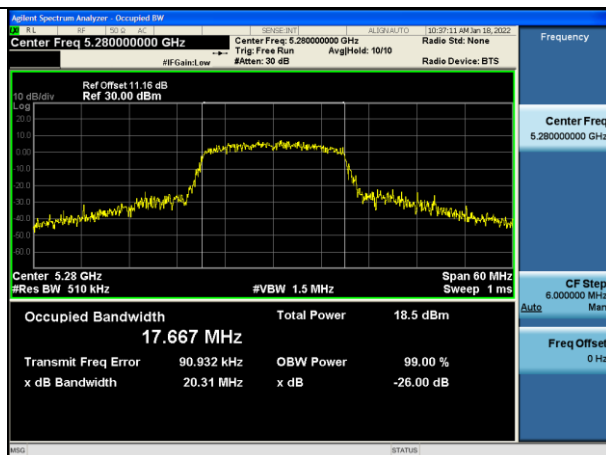
Test Mode: 802.11a



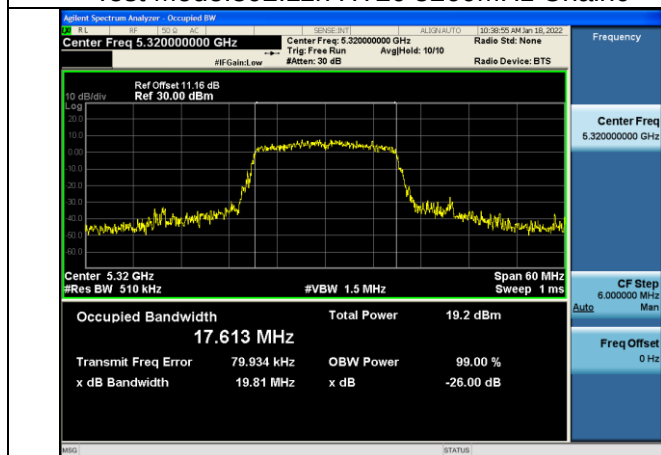
Test Mode: 802.11n HT20



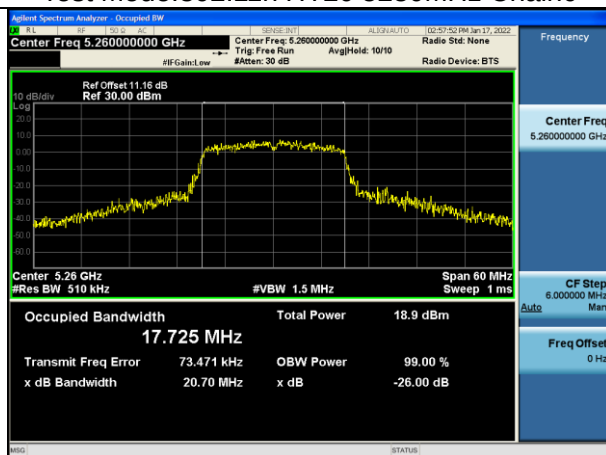
Test Mode:802.11n HT20 5260MHz Chain0



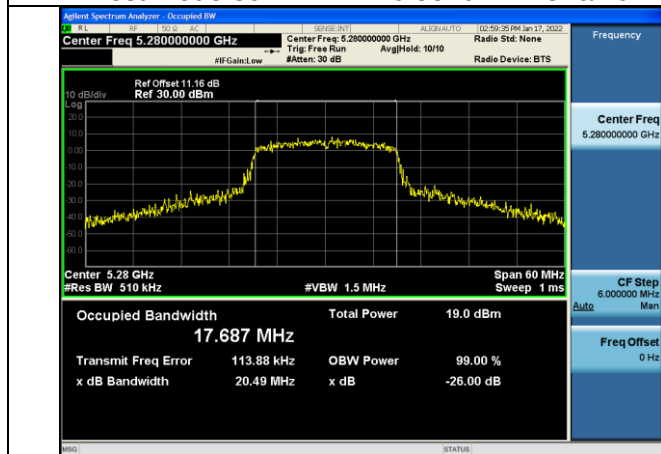
Test Mode:802.11n HT20 5280MHz Chain0



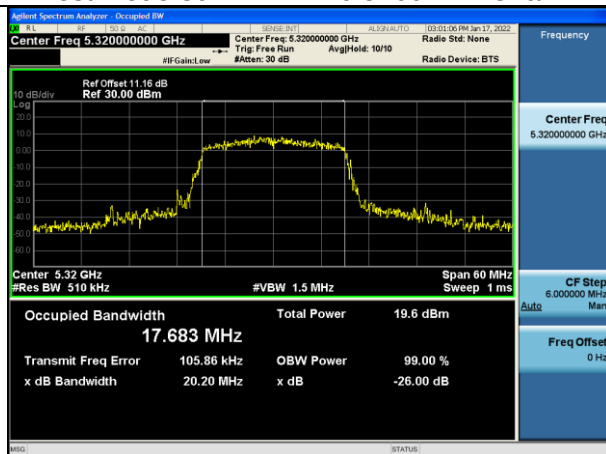
Test Mode:802.11n HT20 5320MHz Chain0



Test Mode:802.11n HT20 5260MHz Chain1

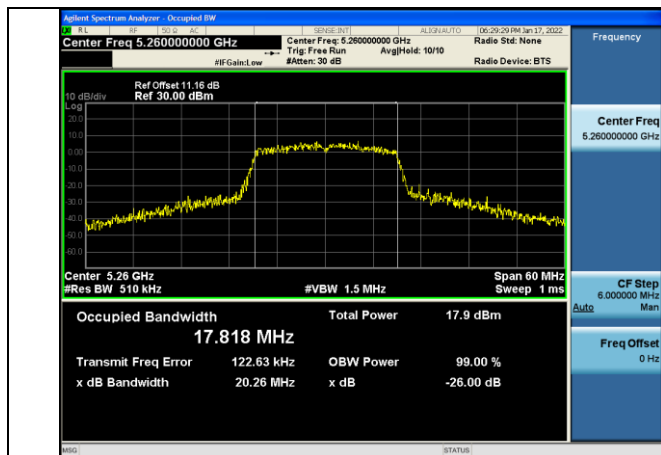


Test Mode:802.11n HT20 5280MHz Chain1

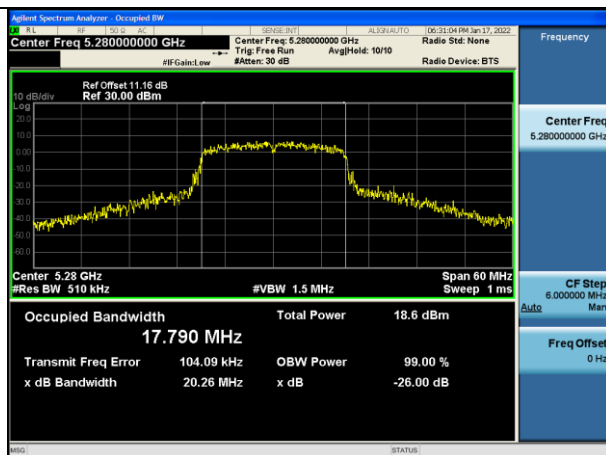


Test Mode:802.11n HT20 5320MHz Chain1

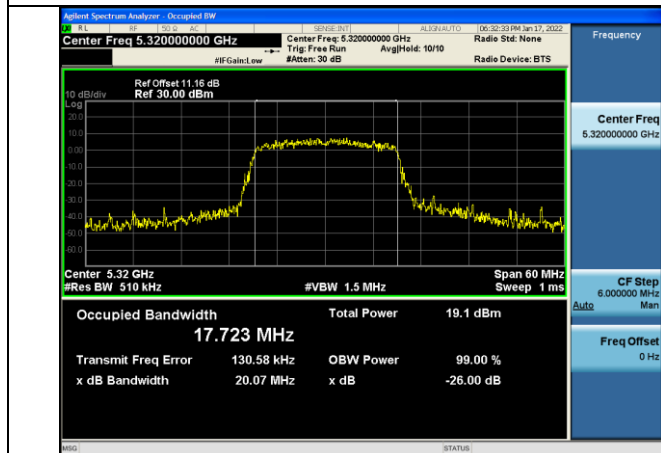
Test Mode: 802.11ac VHT20



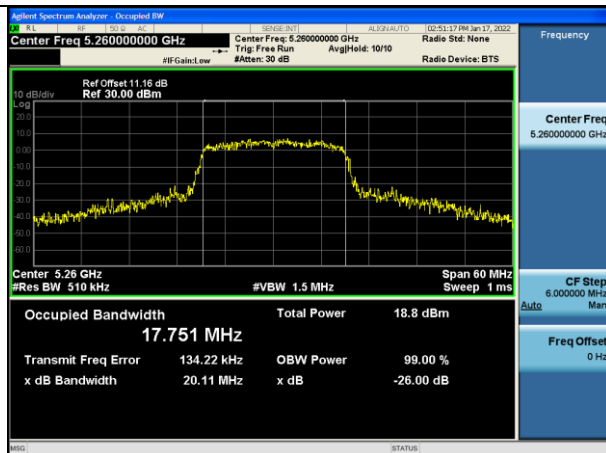
Test Mode:802.11ac VHT20 5260MHz Chain0



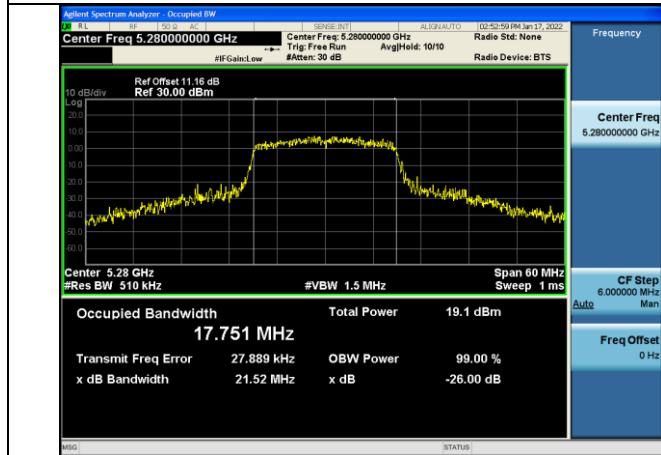
Test Mode:802.11ac VHT20 5280MHz Chain0



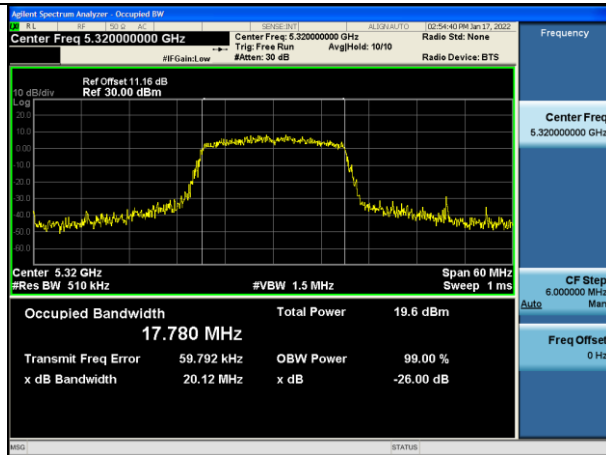
Test Mode:802.11ac VHT20 5320MHz Chain0



Test Mode:802.11ac VHT20 5260MHz Chain1

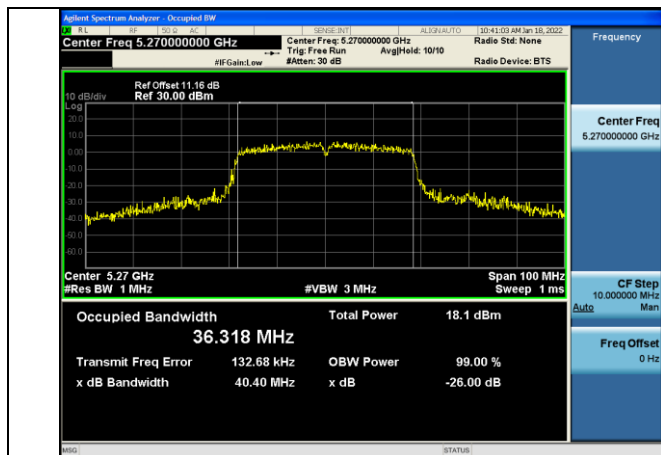


Test Mode:802.11ac VHT20 5280MHz Chain1

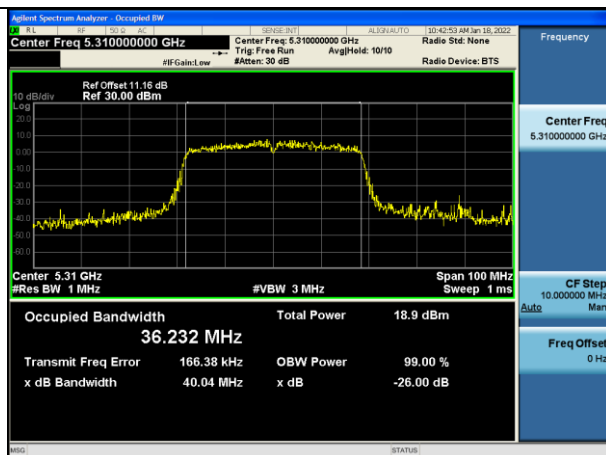


Test Mode:802.11ac VHT20 5320MHz Chain1

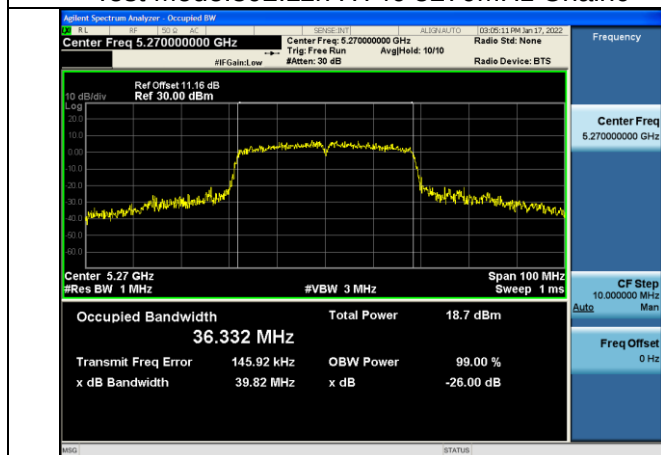
Test Mode: 802.11n HT40



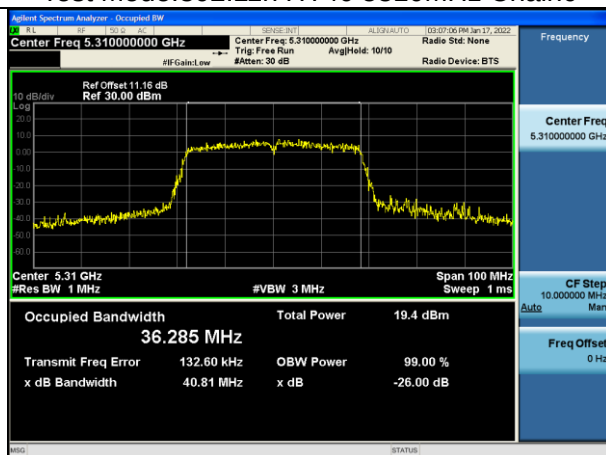
Test Mode:802.11n HT40 5270MHz Chain0



Test Mode:802.11n HT40 5310MHz Chain0

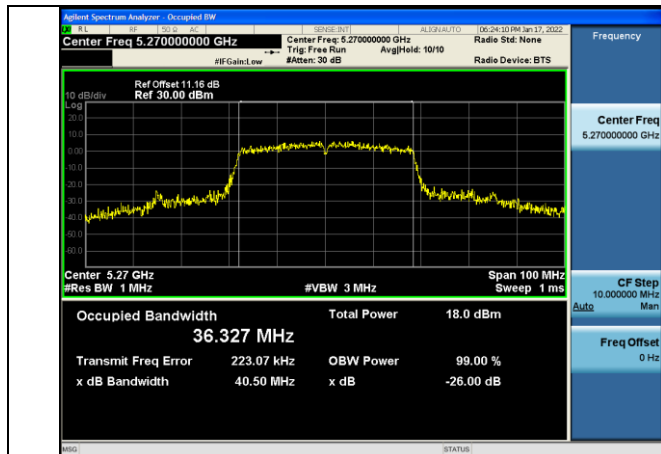


Test Mode:802.11n HT40 5270MHz Chain1

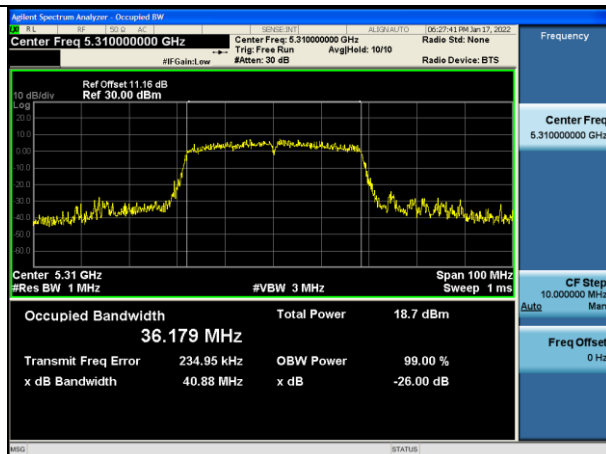


Test Mode:802.11n HT40 5310MHz Chain1

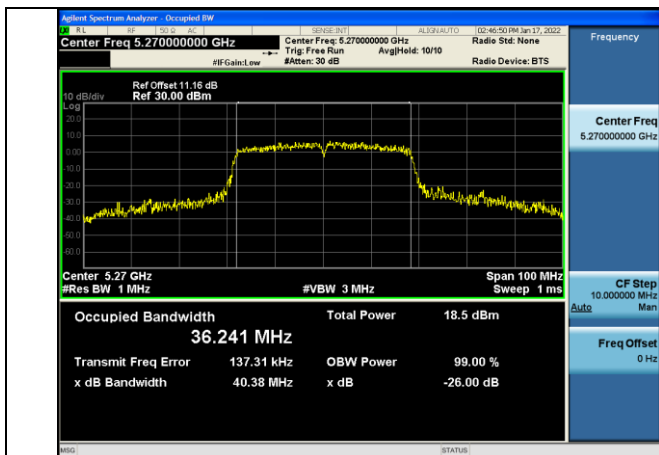
Test Mode: 802.11ac VHT40



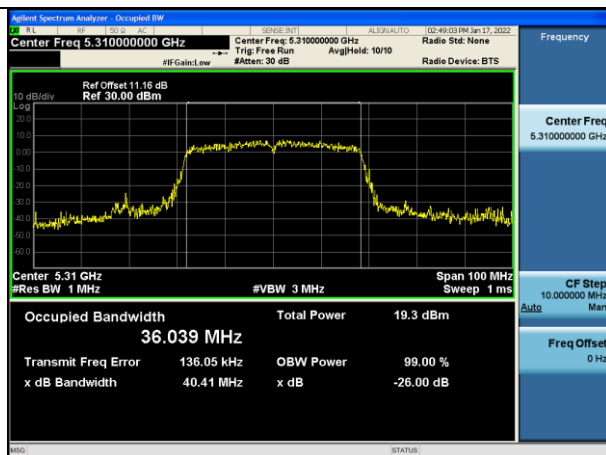
Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

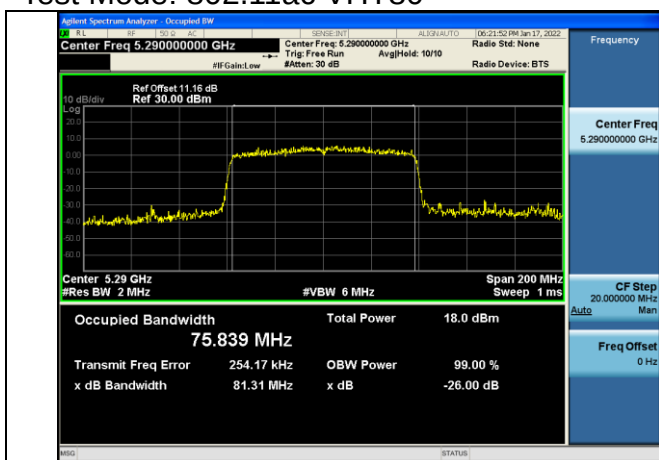


Test Mode:802.11ac VHT40 5270MHz Chain1

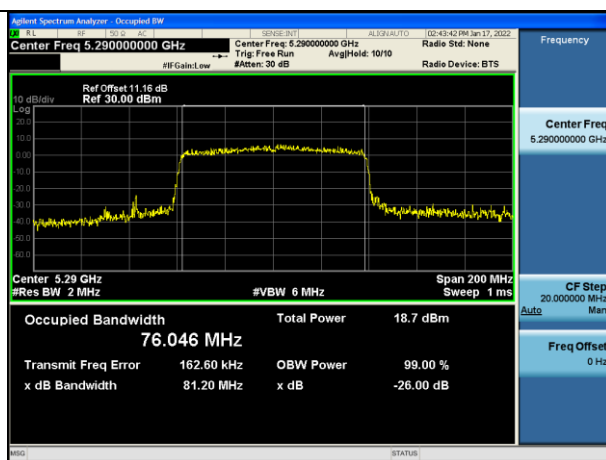


Test Mode:802.11ac VHT40 5310MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5290MHz Chain0



Test Mode:802.11ac VHT80 5290MHz Chain1

Occupied Bandwidth

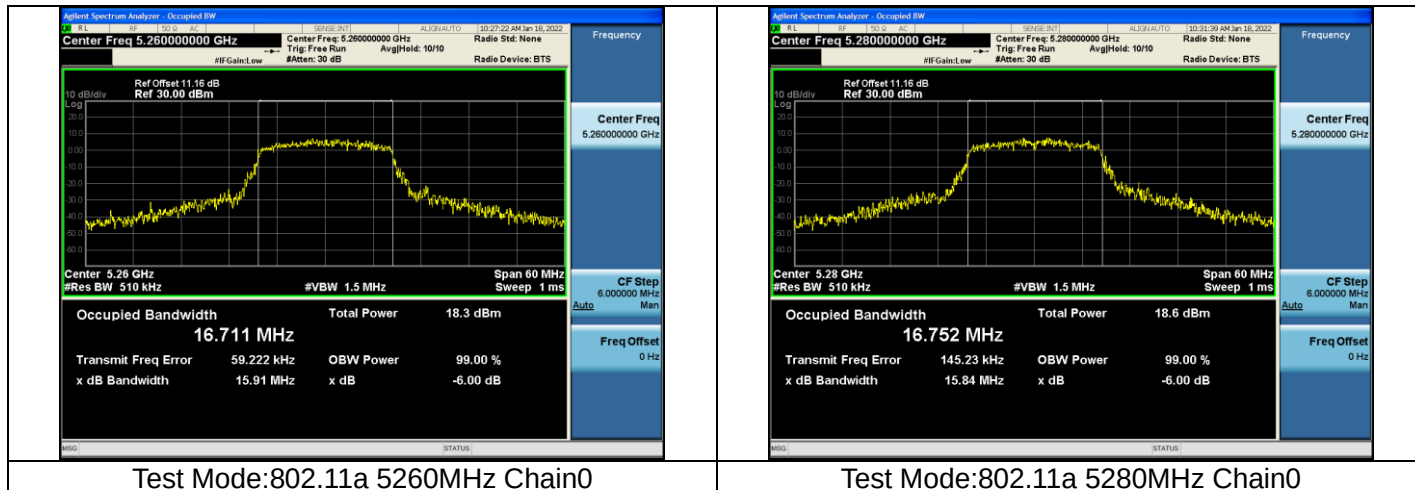
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2 dB + Cable loss 0.96 dB

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.711	16.752	16.678
802.11a	Chain1	16.628	16.645	16.652
802.11n HT20	Chain0	17.678	17.699	17.620
802.11n HT20	Chain1	17.778	17.692	17.738
802.11ac VHT20	Chain0	17.700	17.708	17.657
802.11ac VHT20	Chain1	17.780	17.706	17.608

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.284	---	36.201
802.11n HT40	Chain1	36.318	---	36.236
802.11ac VHT40	Chain0	36.312	---	36.157
802.11ac VHT40	Chain1	36.232	---	36.143

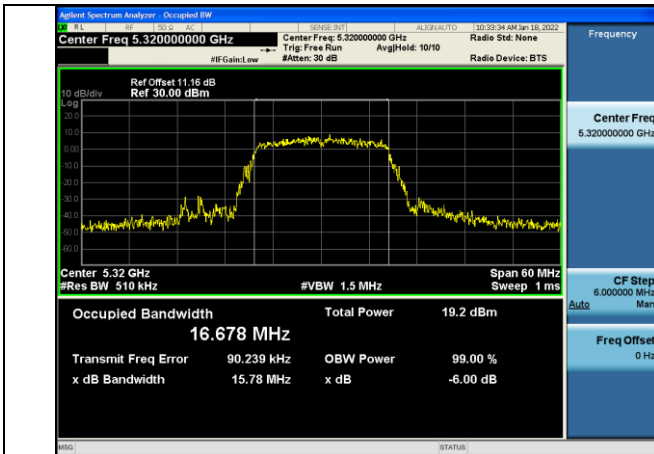
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	76.013	---	---
802.11ac VHT80	Chain1	75.800	---	---

Test Mode: 802.11a

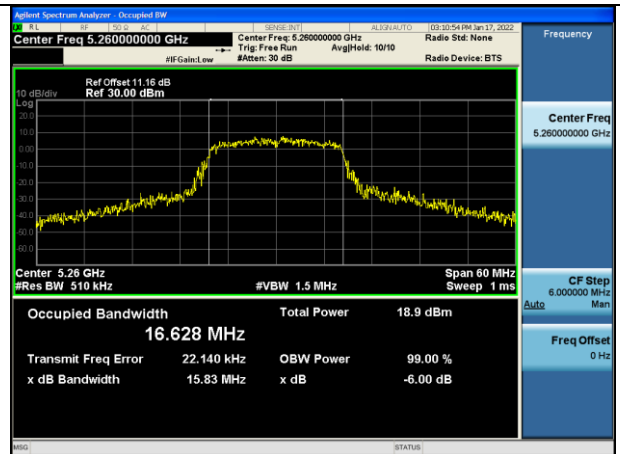


Test Mode:802.11a 5260MHz Chain0

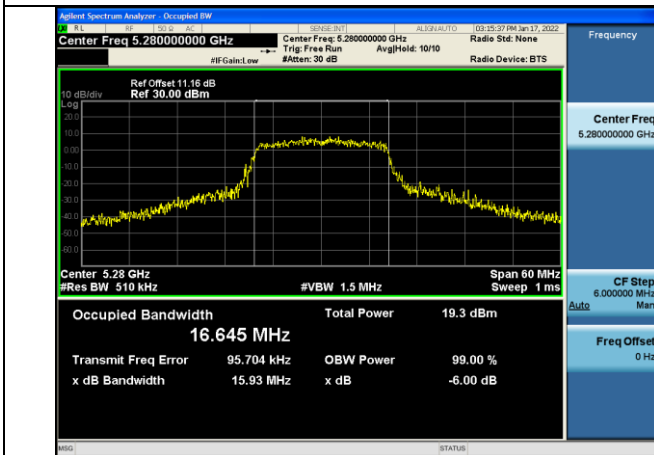
Test Mode:802.11a 5280MHz Chain0



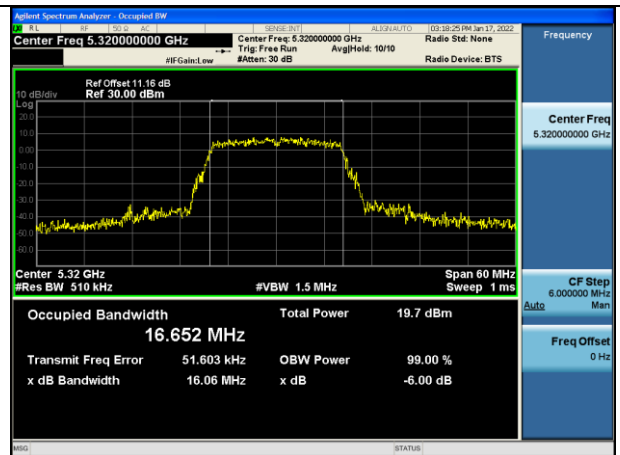
Test Mode:802.11a 5320MHz Chain0



Test Mode:802.11a 5260MHz Chain1

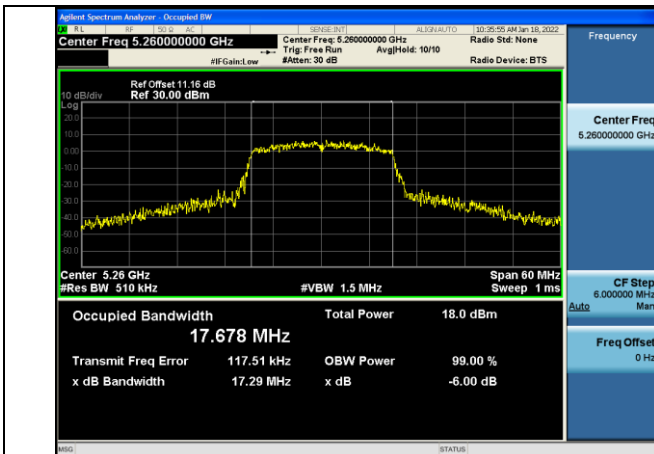


Test Mode:802.11a 5280MHz Chain1

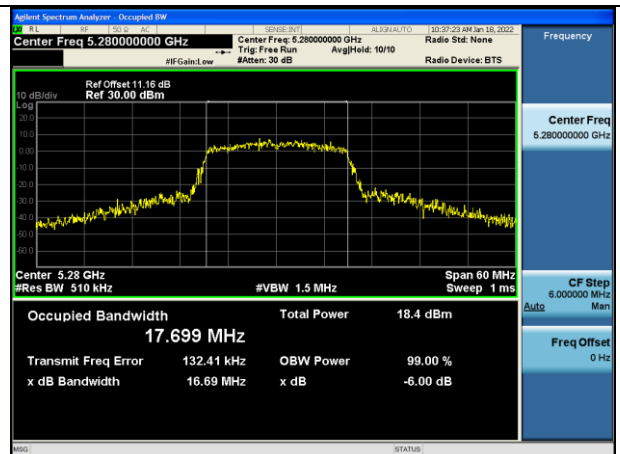


Test Mode:802.11a 5320MHz Chain1

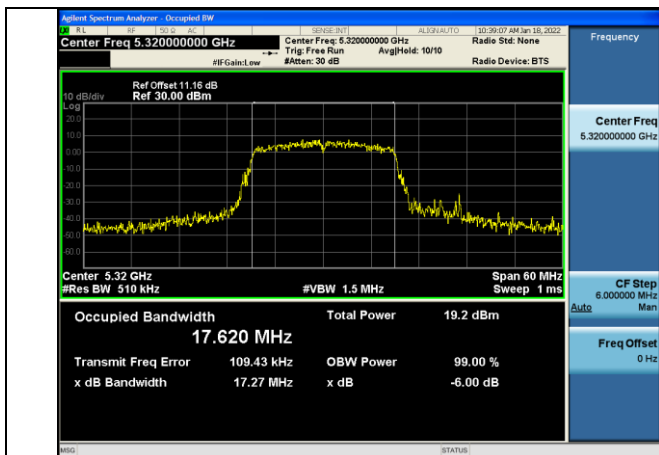
Test Mode: 802.11n HT20



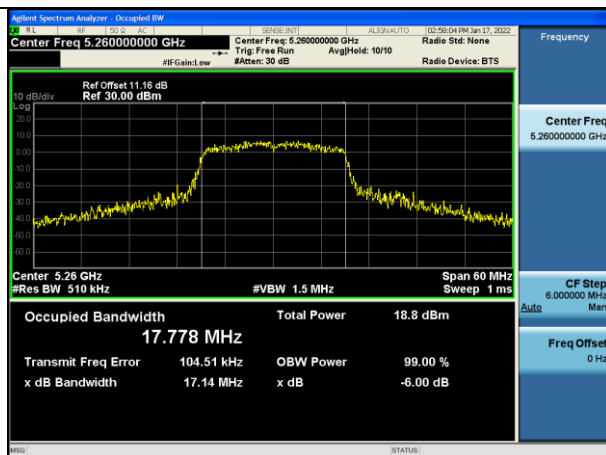
Test Mode:802.11n HT20 5260MHz Chain0



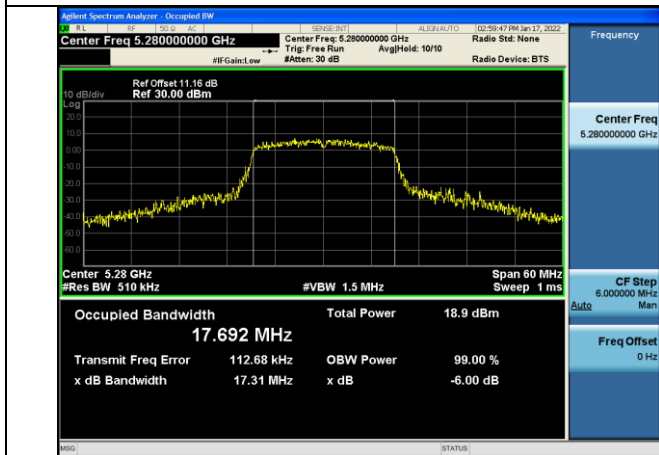
Test Mode:802.11n HT20 5280MHz Chain0



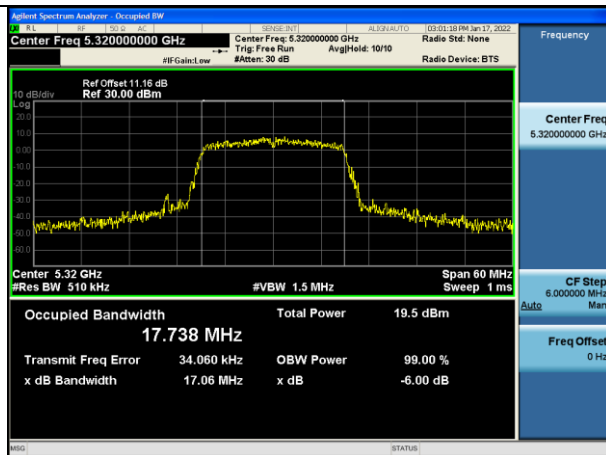
Test Mode:802.11n HT20 5320MHz Chain0



Test Mode:802.11n HT20 5260MHz Chain1

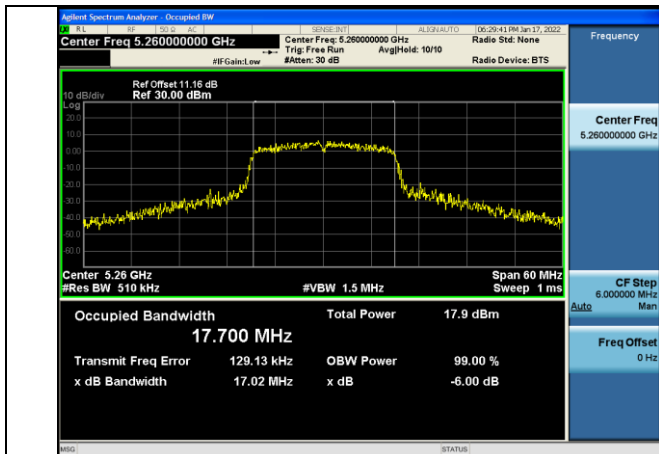


Test Mode:802.11n HT20 5280MHz Chain1

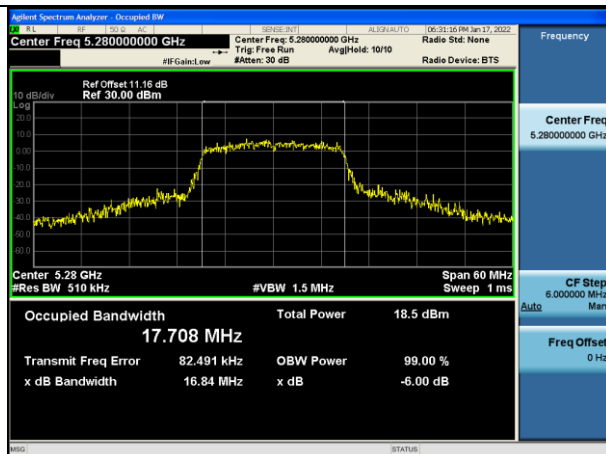


Test Mode:802.11n HT20 5320MHz Chain1

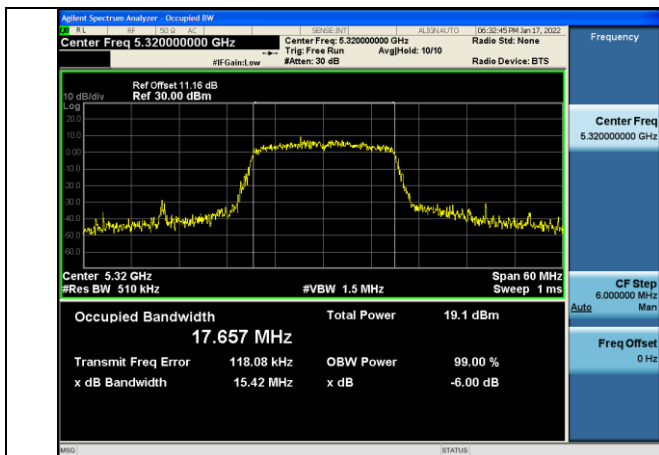
Test Mode: 802.11ac VHT20



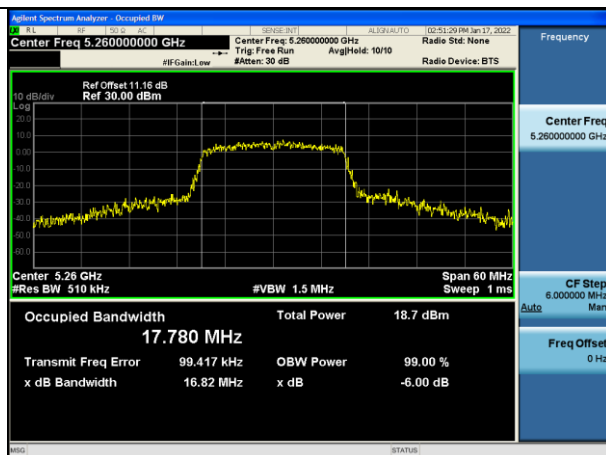
Test Mode:802.11ac VHT20 5260MHz Chain0



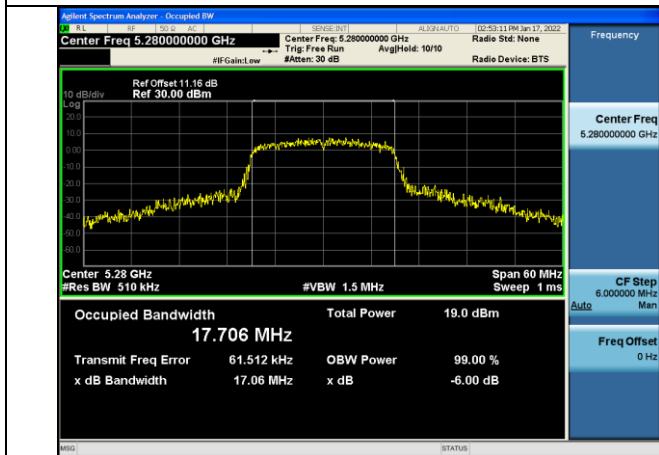
Test Mode:802.11ac VHT20 5280MHz Chain0



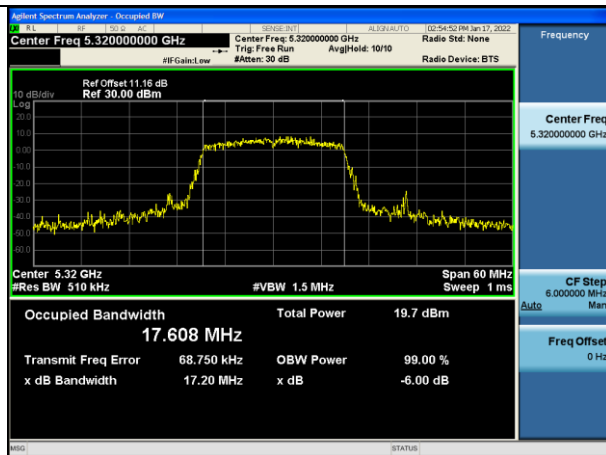
Test Mode:802.11ac VHT20 5320MHz Chain0



Test Mode:802.11ac VHT20 5260MHz Chain1

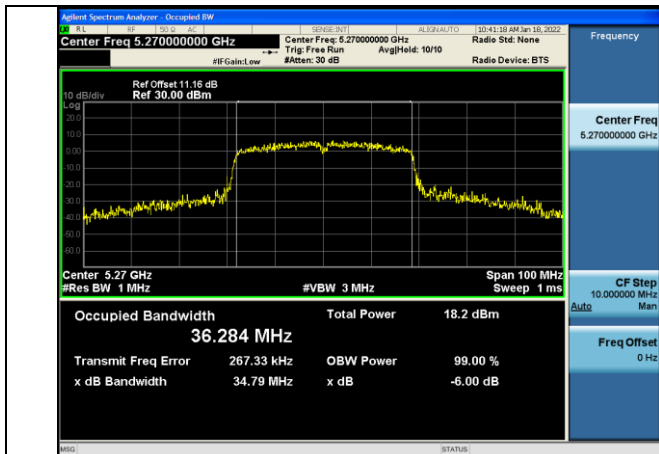


Test Mode:802.11ac VHT20 5280MHz Chain1

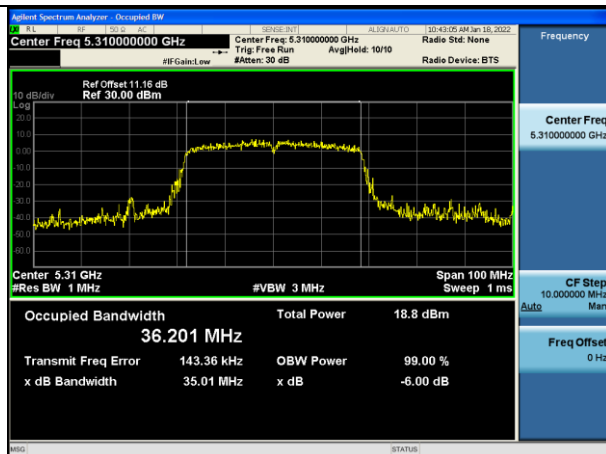


Test Mode:802.11ac VHT20 5320MHz Chain1

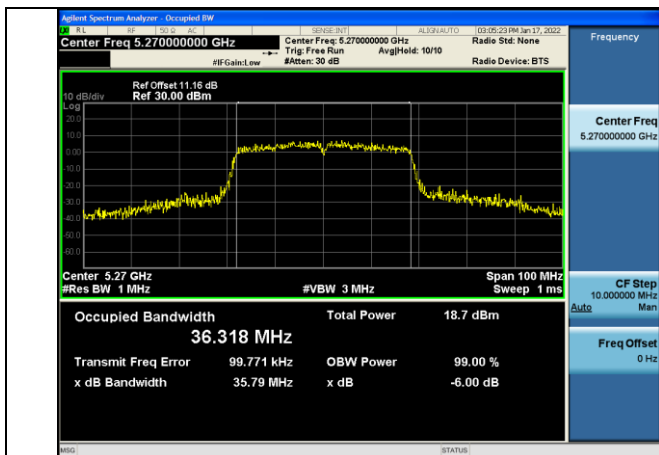
Test Mode: 802.11n HT40



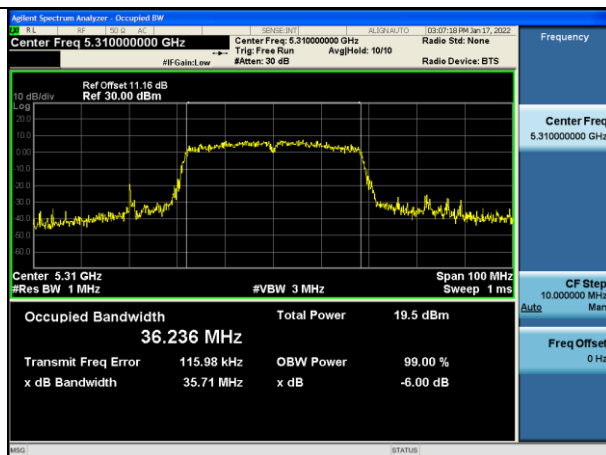
Test Mode:802.11n HT40 5270MHz Chain0



Test Mode:802.11n HT40 5310MHz Chain0

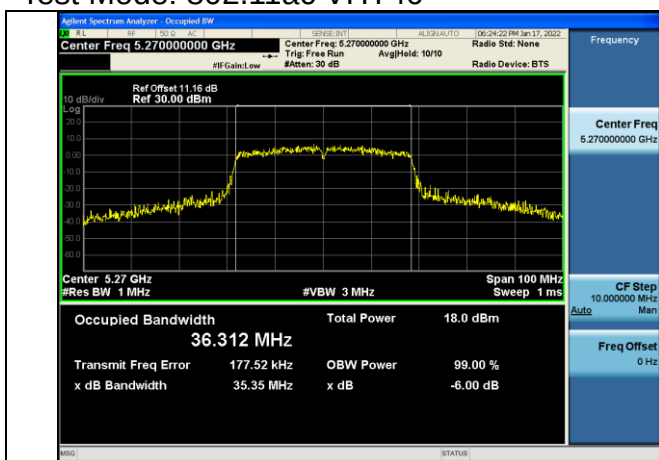


Test Mode:802.11n HT40 5270MHz Chain1

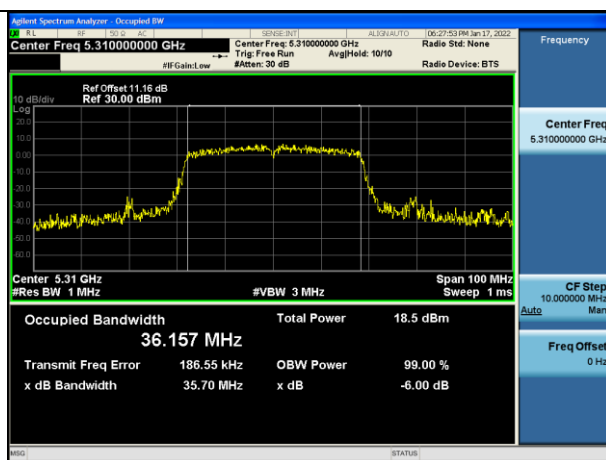


Test Mode:802.11n HT40 5310MHz Chain1

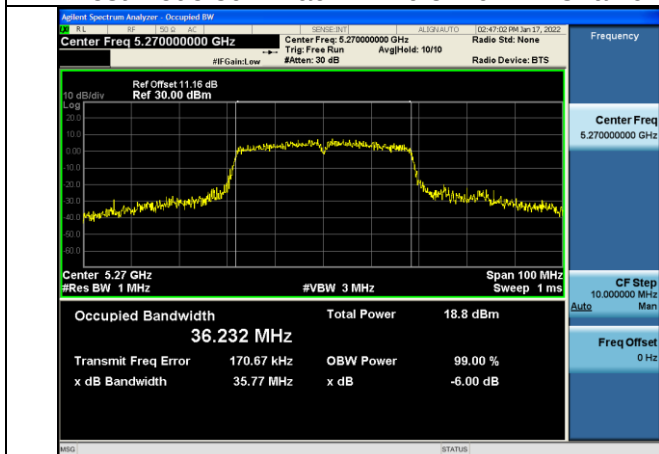
Test Mode: 802.11ac VHT40



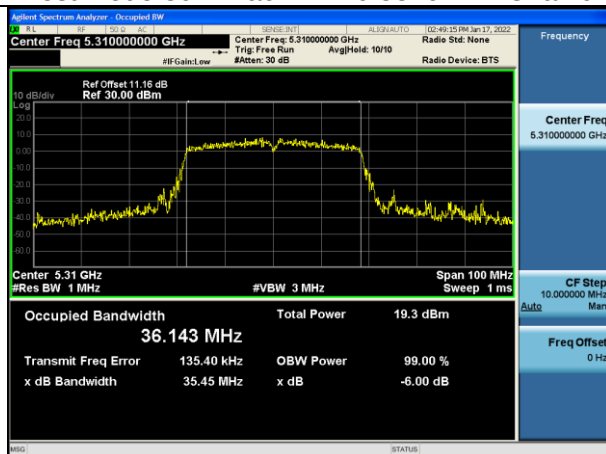
Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

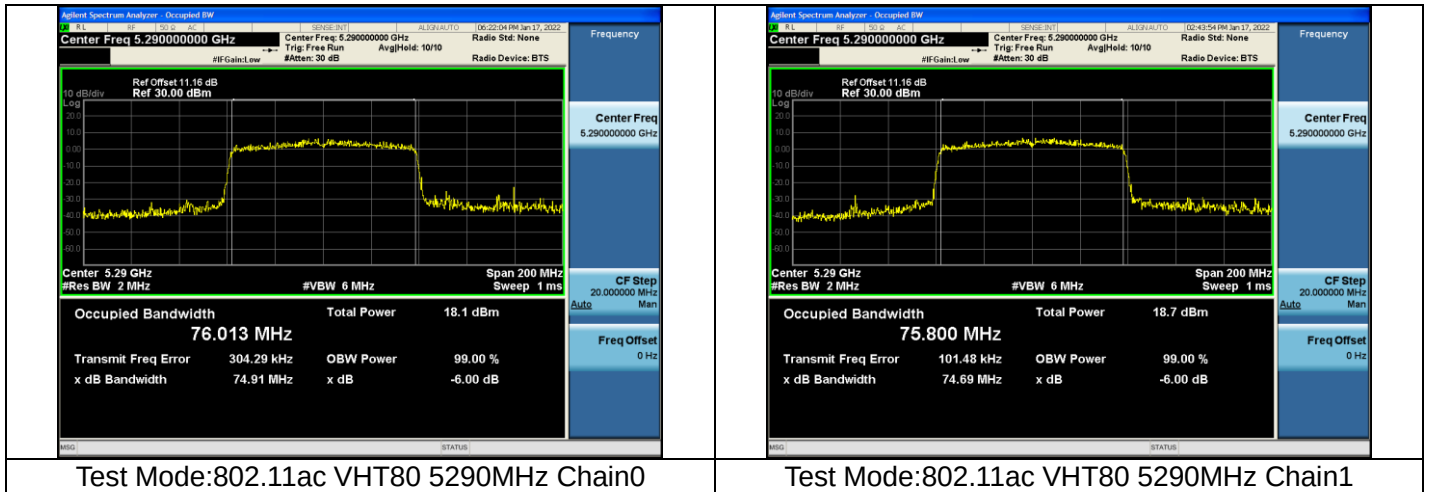


Test Mode:802.11ac VHT40 5270MHz Chain1



Test Mode:802.11ac VHT40 5310MHz Chain1

Test Mode: 802.11ac VHT80



Transmitter Power Spectral Density

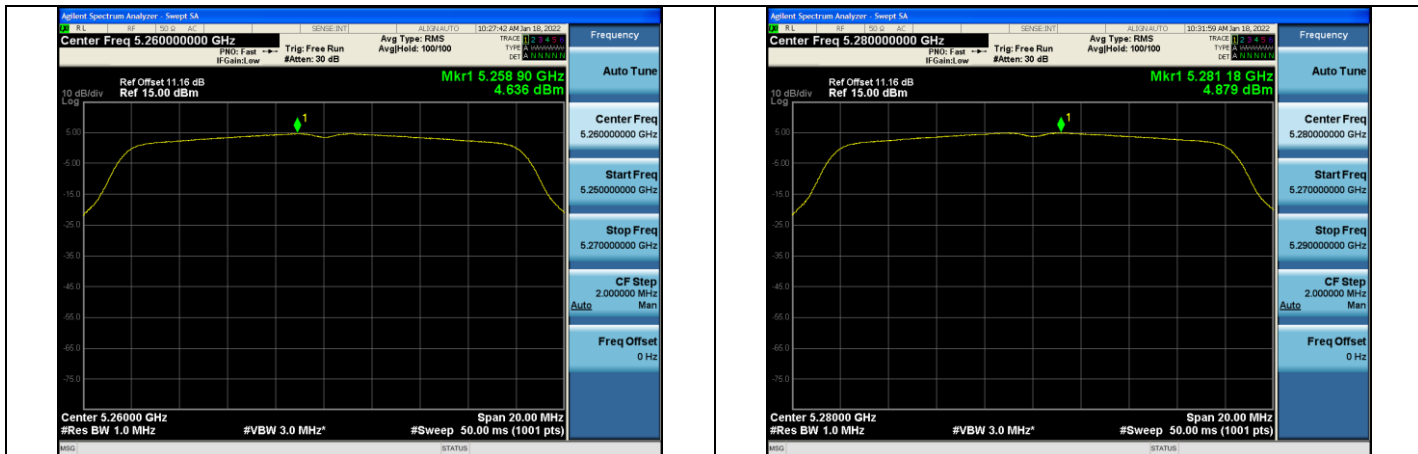
Offset 11.16dB = Attenuator 10dB+ Temporary antenna connector loss 0.2 dB + Cable loss 0.96 dB

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	4.636	0	4.879	0	5.612
802.11a	Chain1	0	5.142	0	5.653	0	6.122
802.11n HT20	Chain0	0	4.342	0	4.779	0	5.268
802.11n HT20	Chain1	0	4.901	0	5.130	0	5.753
802.11n HT20	MIMO	0	7.641	0	7.968	0	8.528
802.11a c VHT20	Chain0	0	4.211	0	4.568	0	5.265
802.11a c VHT20	Chain1	0	4.782	0	5.230	0	5.822
802.11a c VHT20	MIMO	0	7.516	0	7.922	0	8.563

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	0.12	1.369	---	---	0.12	2.221
802.11n HT40	Chain1	0.12	1.923	---	---	0.12	2.841
802.11n HT40	MIMO	0.12	4.665	---	---	0.12	5.552
802.11a c VHT40	Chain0	0.11	1.274	---	---	0.11	1.958
802.11a c VHT40	Chain1	0.11	1.821	---	---	0.11	2.593
802.11a c VHT40	MIMO	0.11	4.566	---	---	0.11	5.297

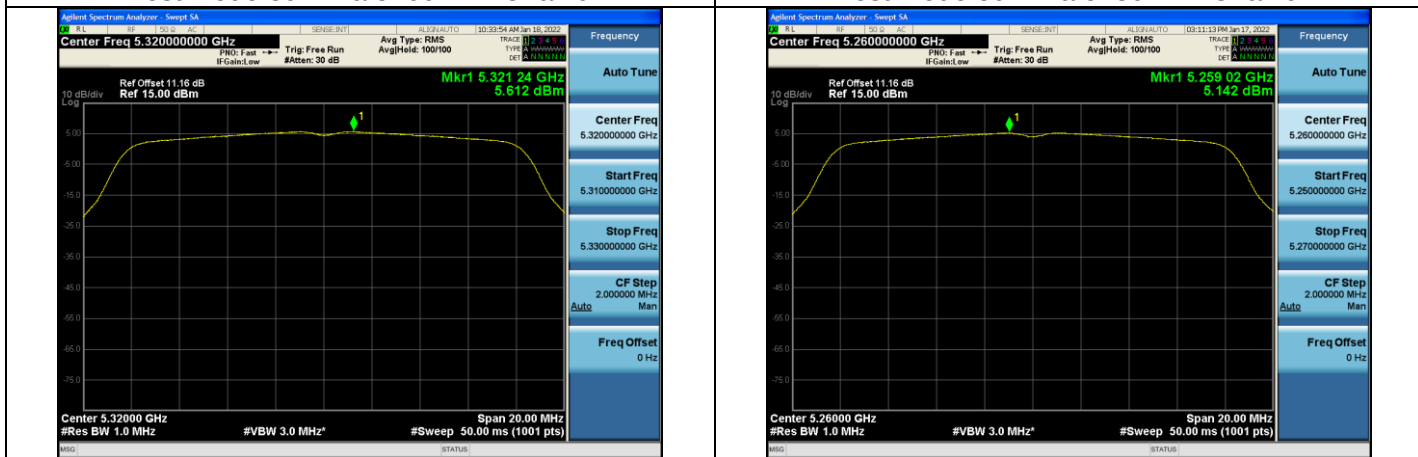
Test Mode	Antenna	5290MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a c VHT80	Chain0	0.22	-1.546	---	---	---	---
802.11a c VHT80	Chain1	0.22	-1.025	---	---	---	---
802.11a c VHT80	MIMO	0.22	1.733	---	---	---	---

Test Mode: 802.11a



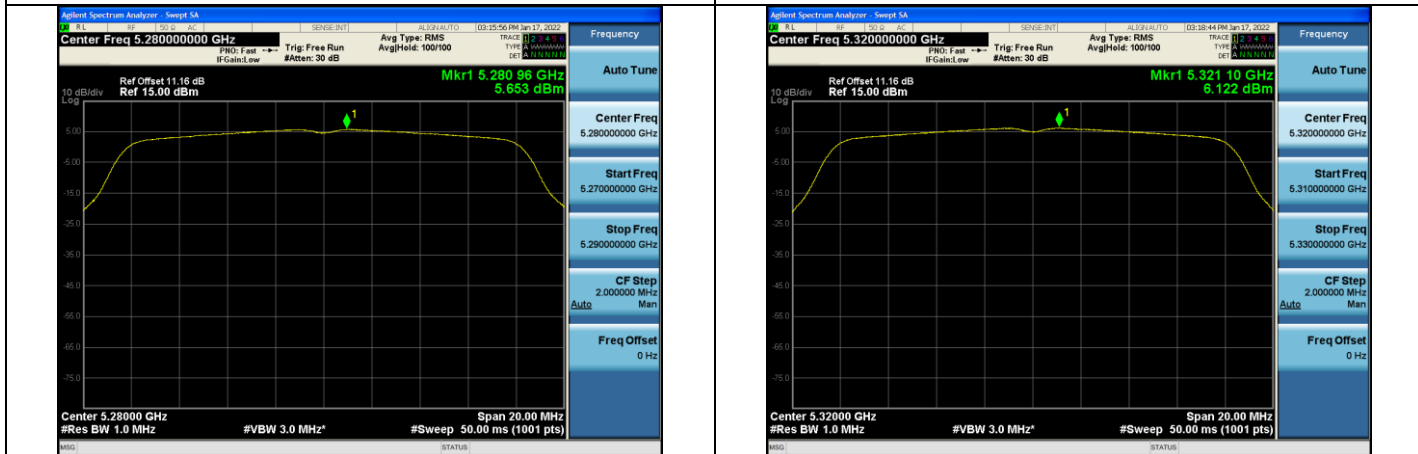
Test Mode:802.11a 5260MHz Chain0

Test Mode:802.11a 5280MHz Chain0



Test Mode:802.11a 5320MHz Chain0

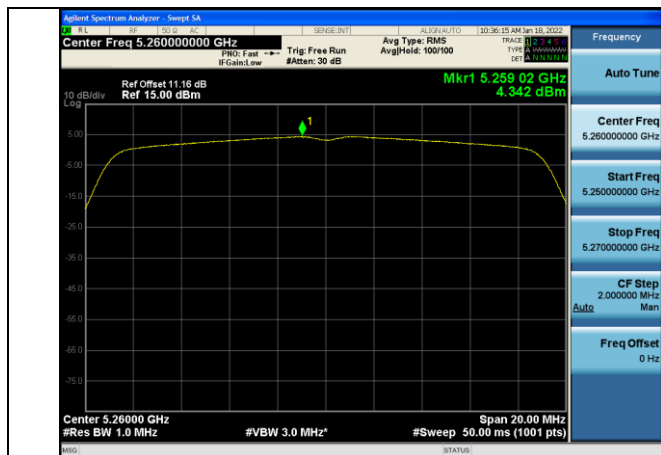
Test Mode:802.11a 5260MHz Chain1



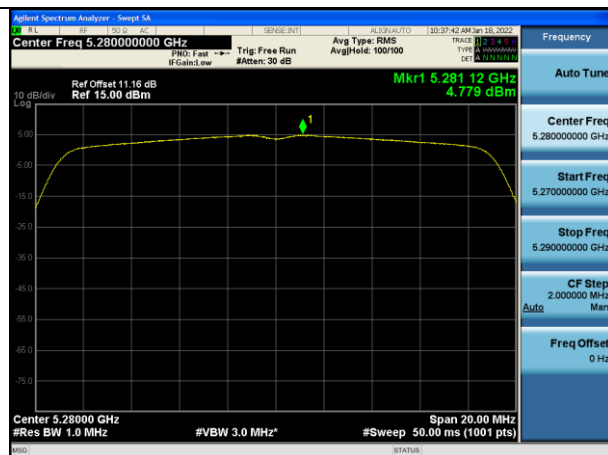
Test Mode:802.11a 5280MHz Chain1

Test Mode:802.11a 5320MHz Chain1

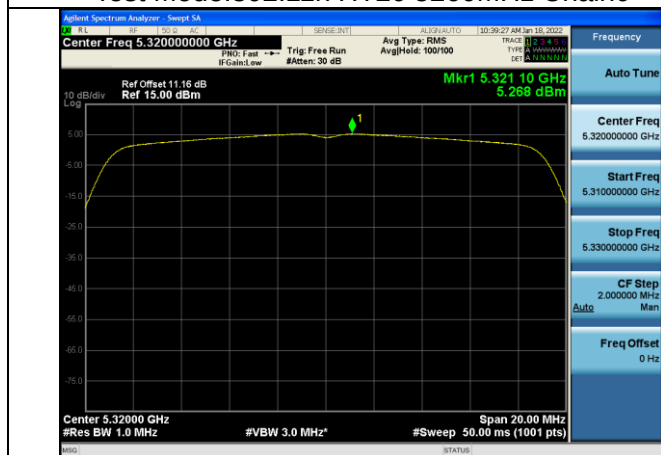
Test Mode: 802.11n HT20



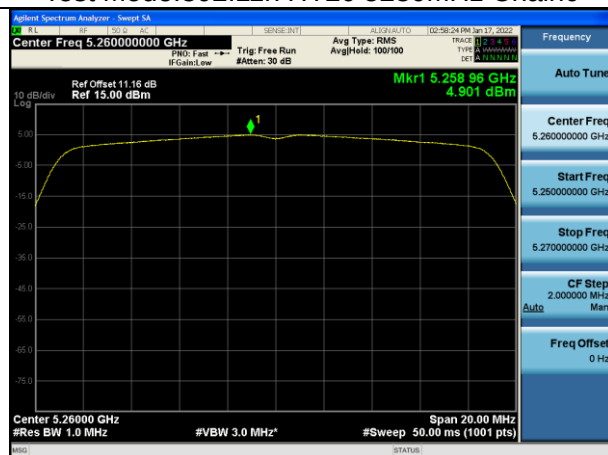
Test Mode:802.11n HT20 5260MHz Chain0



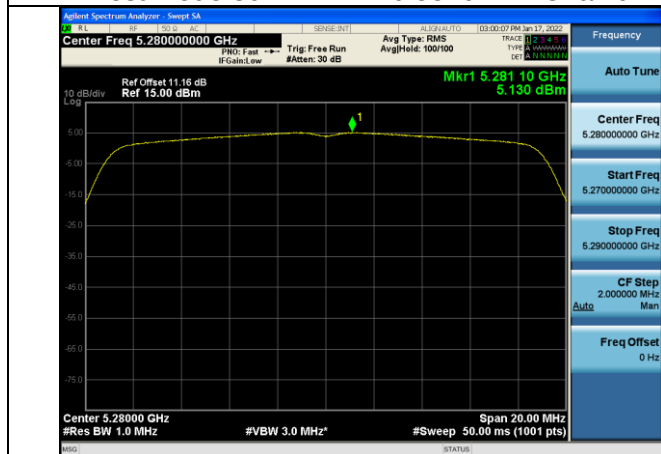
Test Mode:802.11n HT20 5280MHz Chain0



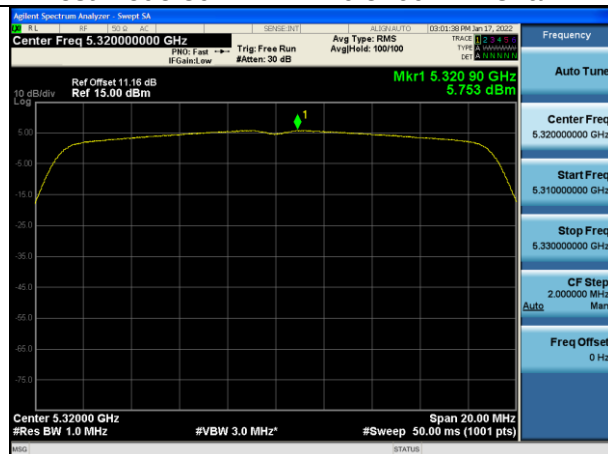
Test Mode:802.11n HT20 5320MHz Chain0



Test Mode:802.11n HT20 5260MHz Chain1

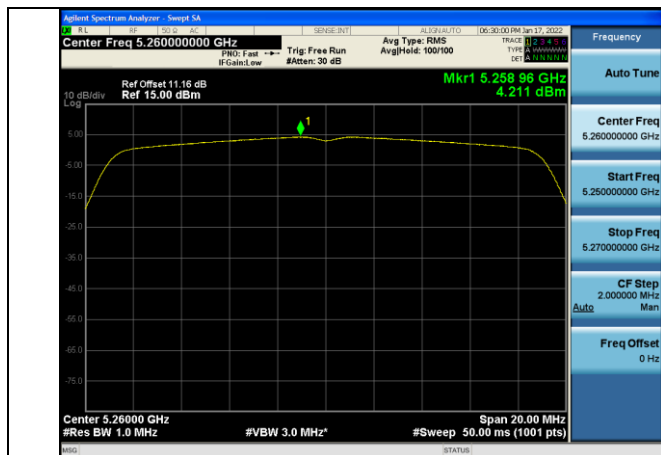


Test Mode:802.11n HT20 5280MHz Chain1

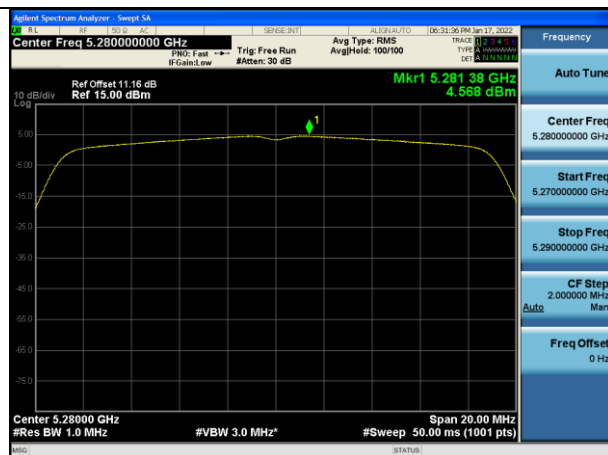


Test Mode:802.11n HT20 5320MHz Chain1

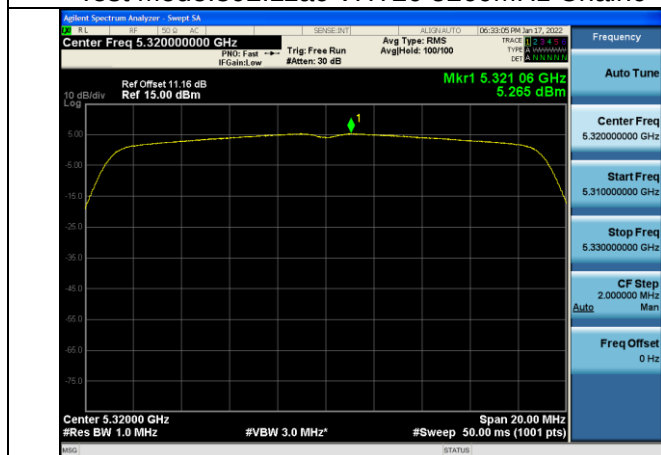
Test Mode: 802.11ac VHT20



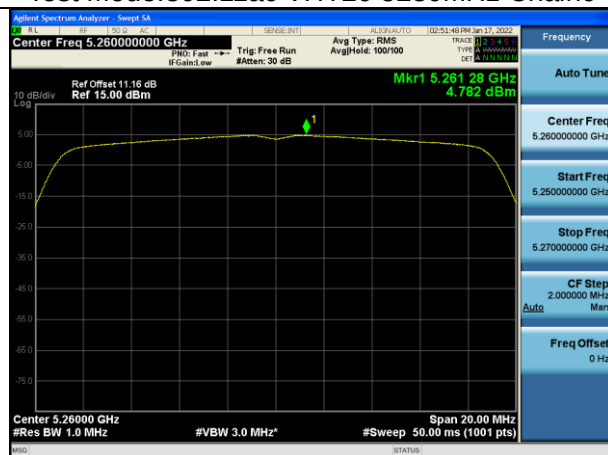
Test Mode:802.11ac VHT20 5260MHz Chain0



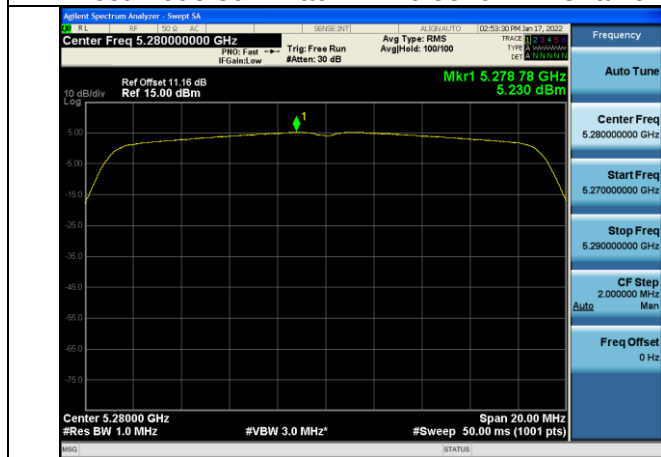
Test Mode:802.11ac VHT20 5280MHz Chain0



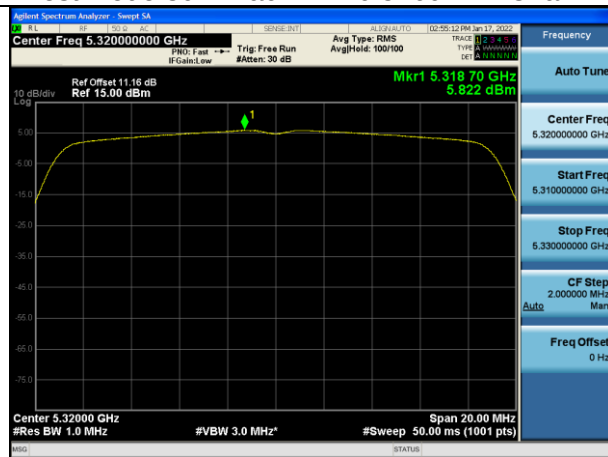
Test Mode:802.11ac VHT20 5320MHz Chain0



Test Mode:802.11ac VHT20 5260MHz Chain1

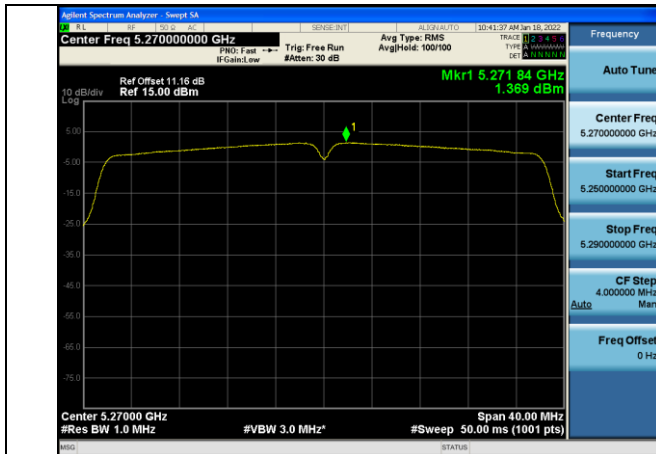


Test Mode:802.11ac VHT20 5280MHz Chain1

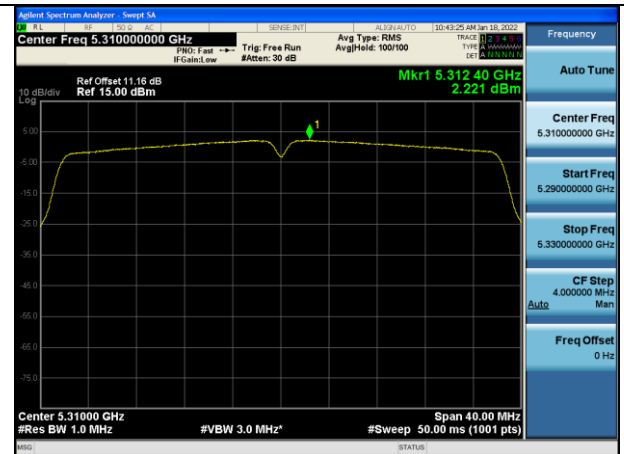


Test Mode:802.11ac VHT20 5320MHz Chain1

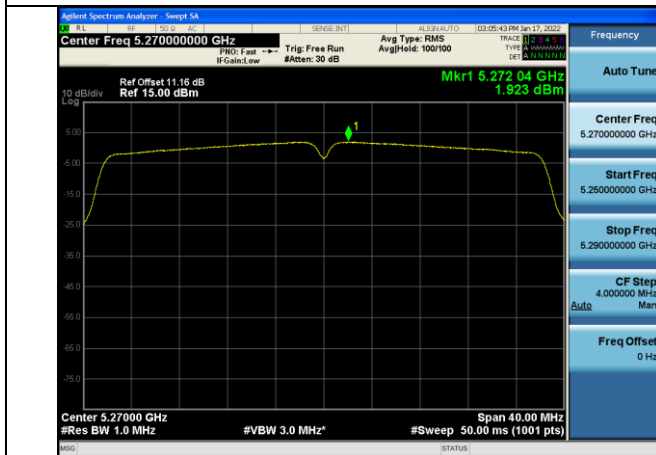
Test Mode: 802.11n HT40



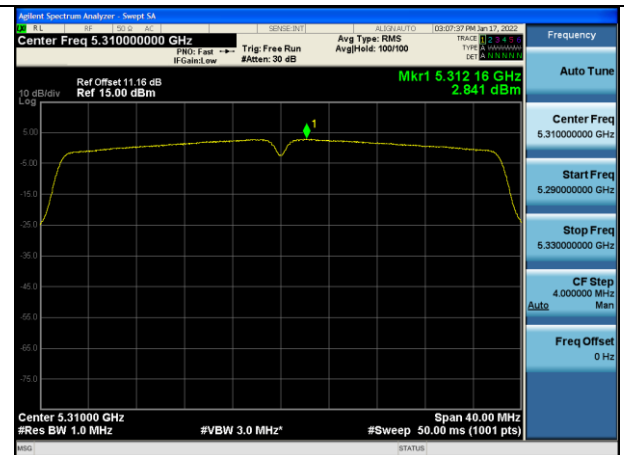
Test Mode:802.11n HT40 5270MHz Chain0



Test Mode:802.11n HT40 5310MHz Chain0

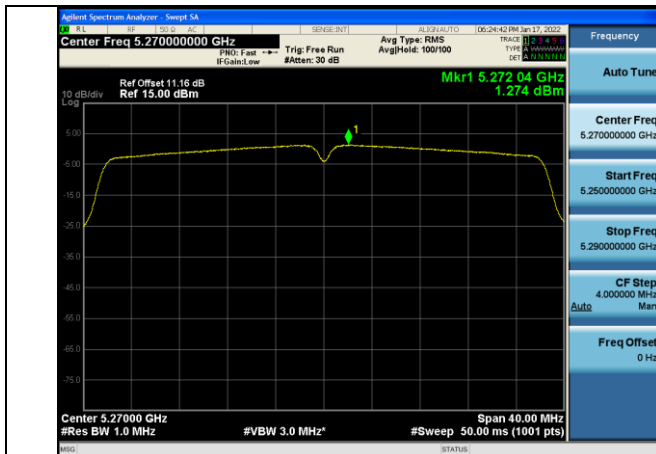


Test Mode:802.11n HT40 5270MHz Chain1

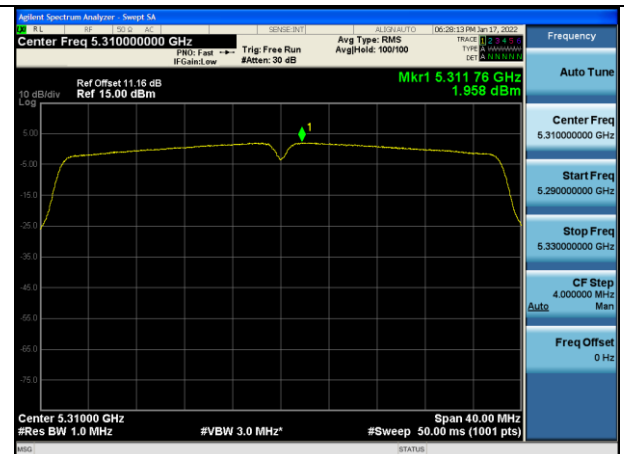


Test Mode:802.11n HT40 5310MHz Chain1

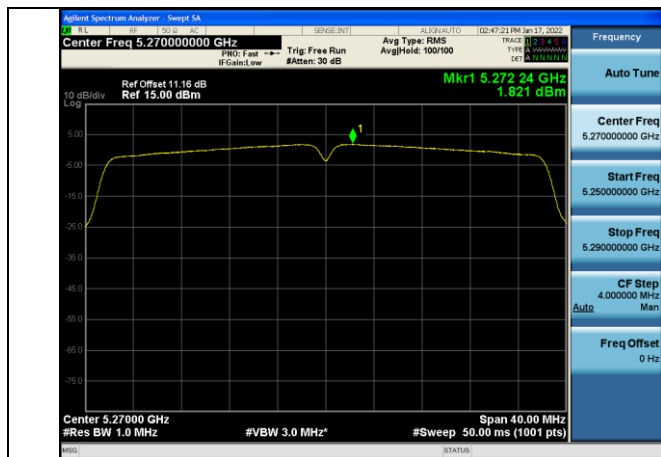
Test Mode: 802.11ac VHT40



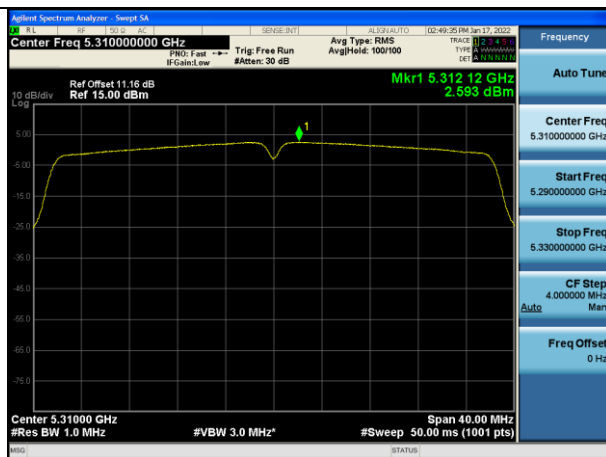
Test Mode:802.11ac VHT40 5270MHz Chain0



Test Mode:802.11ac VHT40 5310MHz Chain0

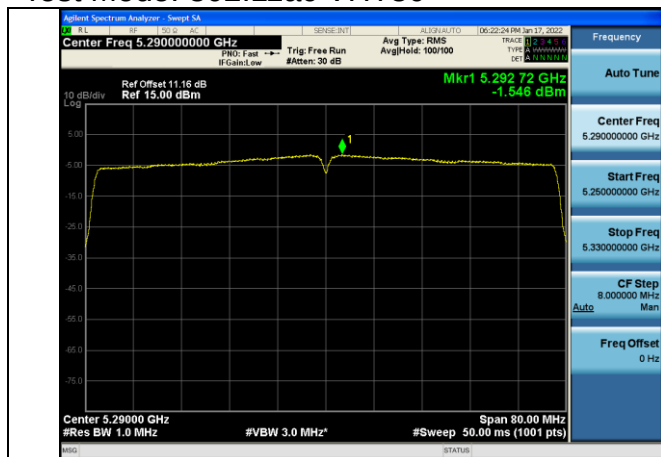


Test Mode:802.11ac VHT40 5270MHz Chain1

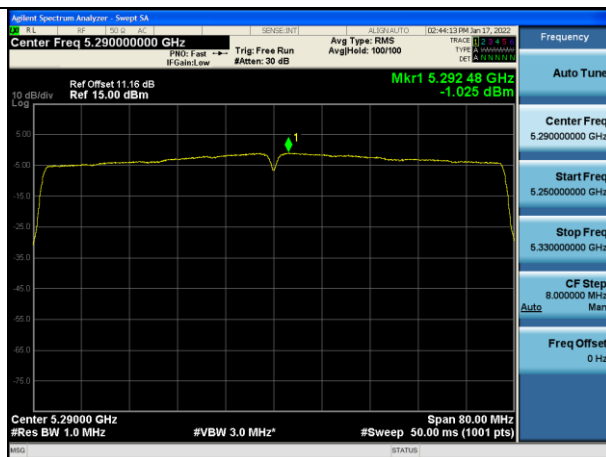


Test Mode:802.11ac VHT40 5310MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5290MHz Chain0



Test Mode:802.11ac VHT80 5290MHz Chain1