

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

Output Power  
UNII-3

Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5745	Chain0	17.34
	5785	Chain0	17.44
	5825	Chain0	17.40
802.11n20M	5745	Chain0	16.35
	5785	Chain0	16.44
	5825	Chain0	16.50
802.11n40M	5755	Chain0	16.98
	5795	Chain0	17.13
802.11ac20M	5745	Chain0	14.34
	5785	Chain0	14.48
	5825	Chain0	14.78
802.11ac40M	5755	Chain0	15.06
	5795	Chain0	15.24
802.11ac80M	5775	Chain0	14.82

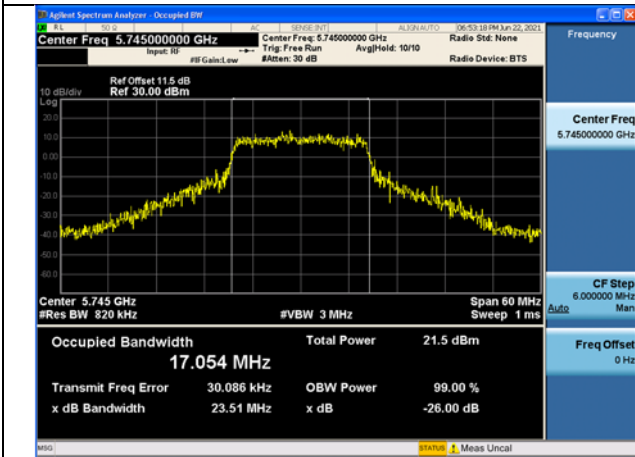
Emission Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

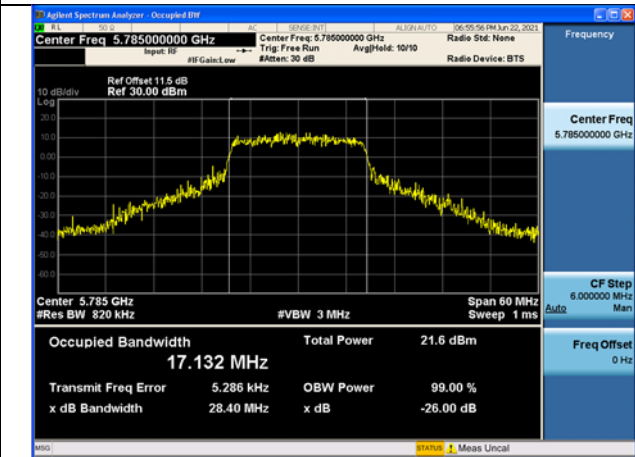
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	23.51
5785	Chain0	28.40
5825	Chain0	26.18

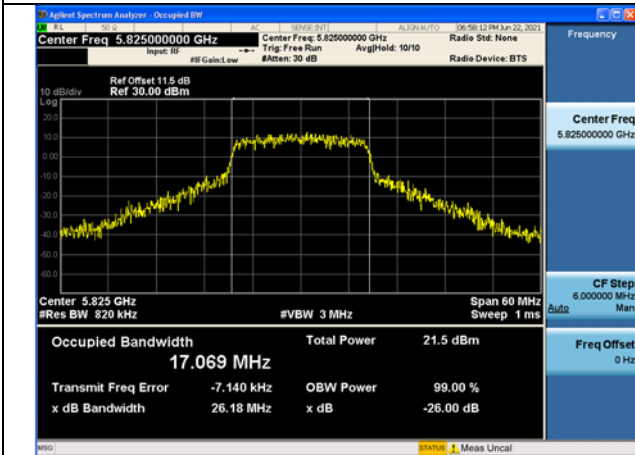
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



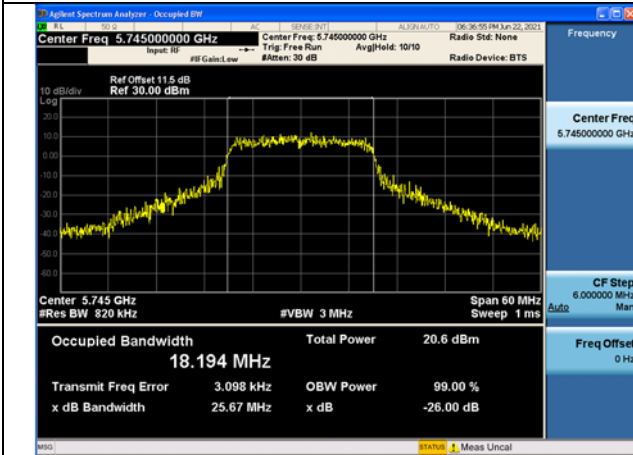
Test Mode:802.11a Chain0



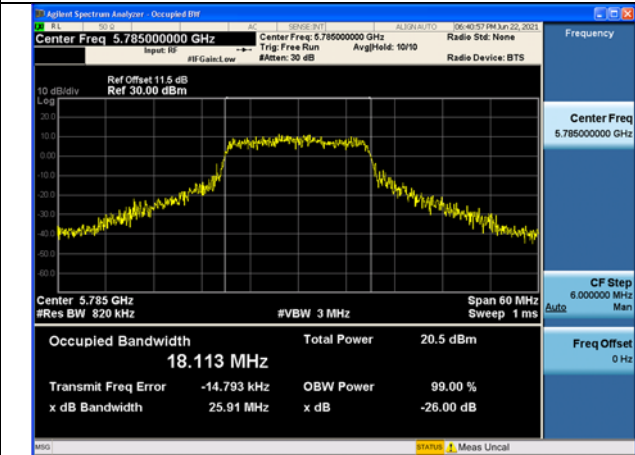
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	25.67
5785	Chain0	25.91
5825	Chain0	25.46

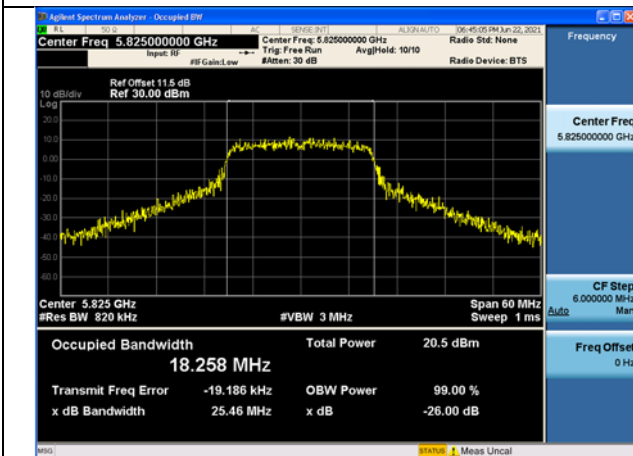
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



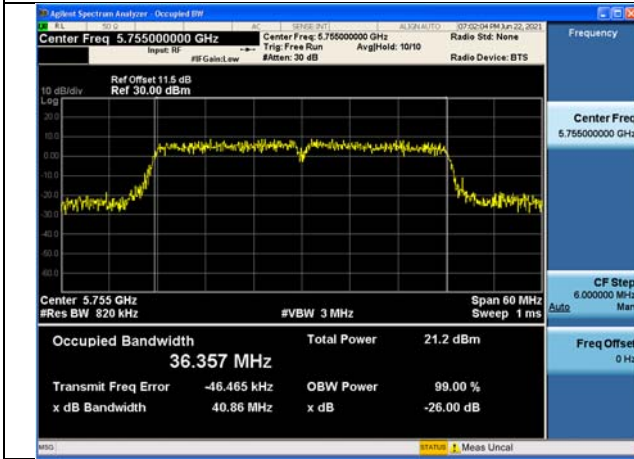
Test Mode:802. 11n HT20 Chain0



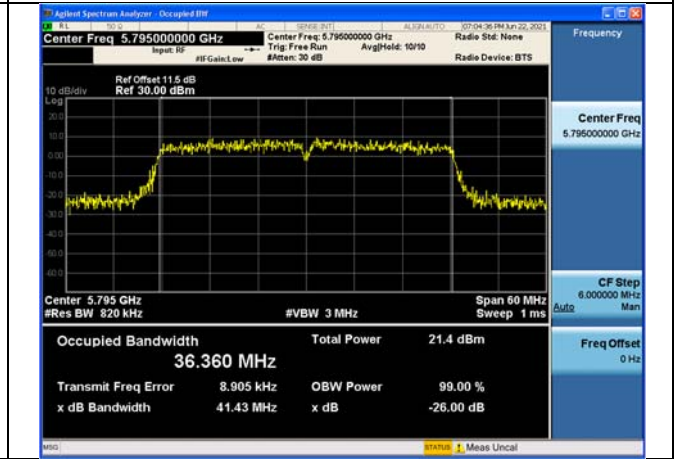
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	40.86
5795	Chain0	41.43

Test Mode:802. 11n HT40 Chain0



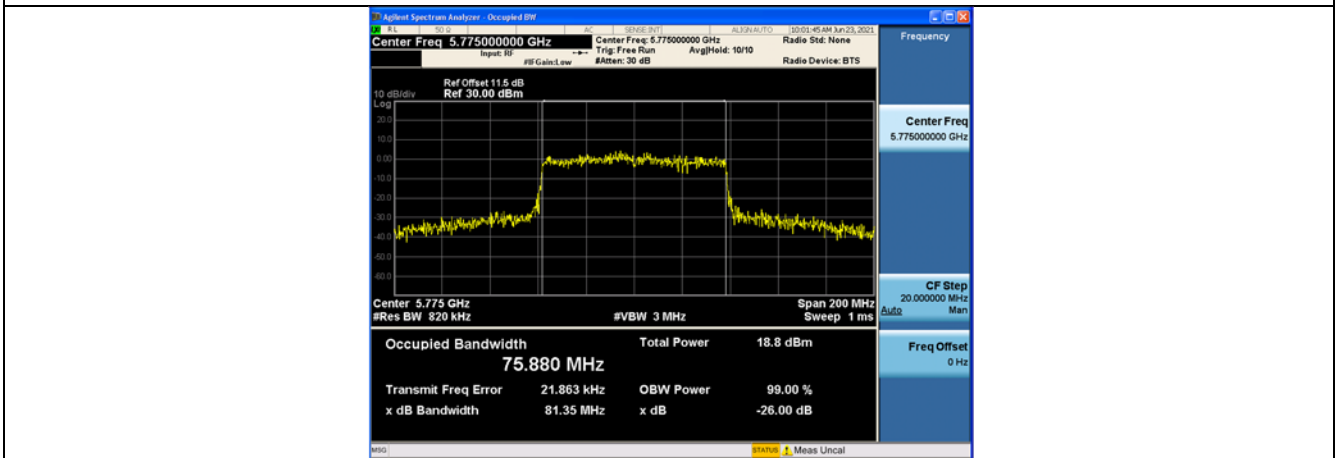
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain0	81.35

Test Mode:802. 11ac VHT80 Chain0



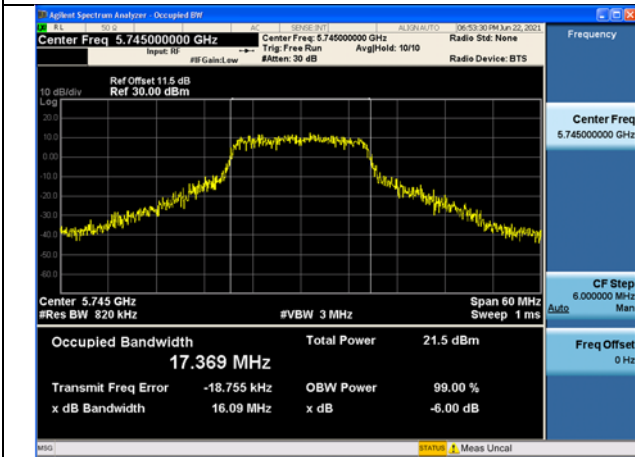
Occupied Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

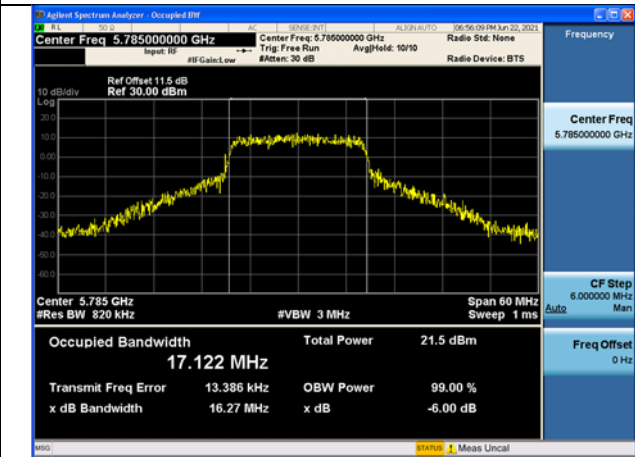
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.369
5785	Chain0	17.122
5825	Chain0	17.116

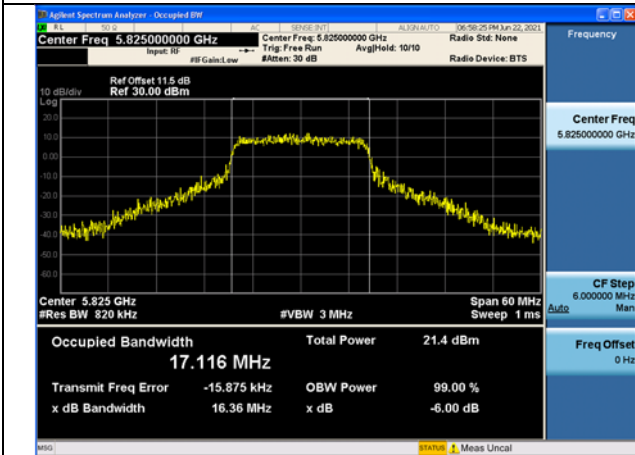
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



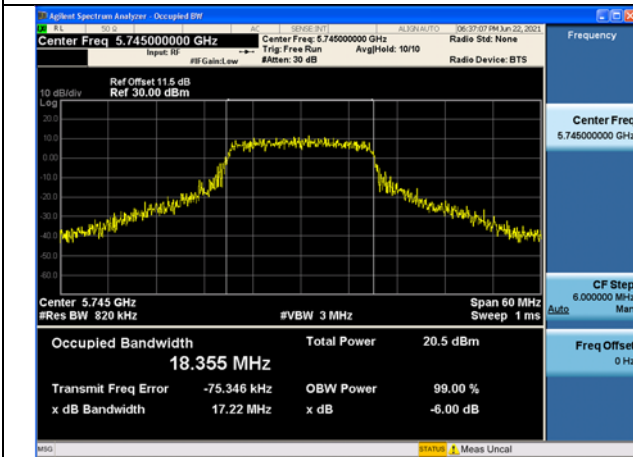
Test Mode:802.11a Chain0



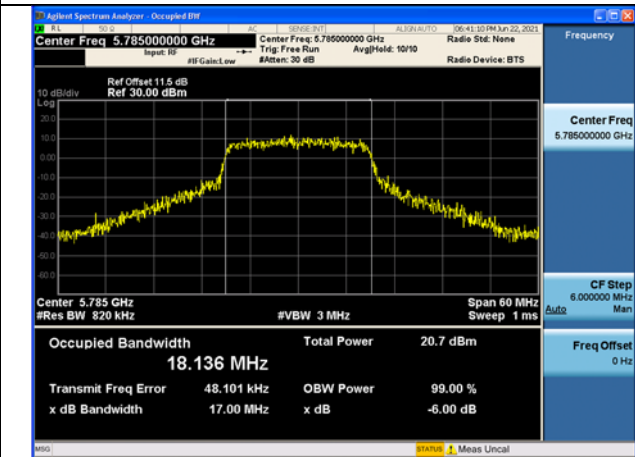
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	18.355
5785	Chain0	18.136
5825	Chain0	18.198

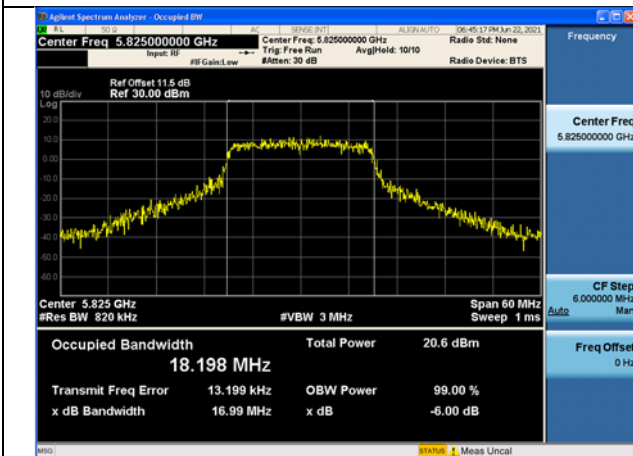
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

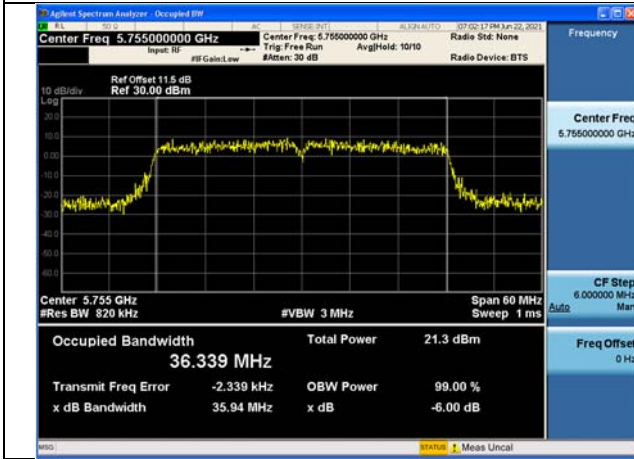




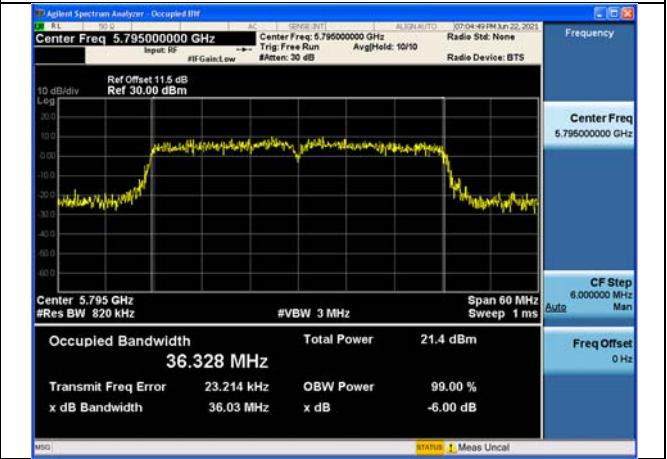
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.339
5795	Chain0	36.328

Test Mode:802. 11n HT40 Chain0



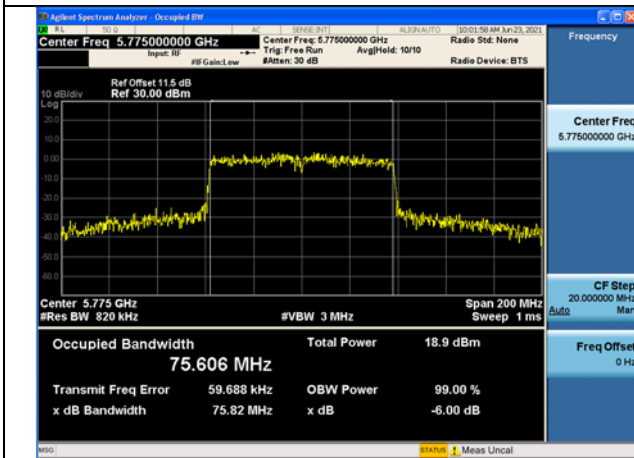
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5775	Chain0	75.606

Test Mode:802. 11ac VHT80 Chain0



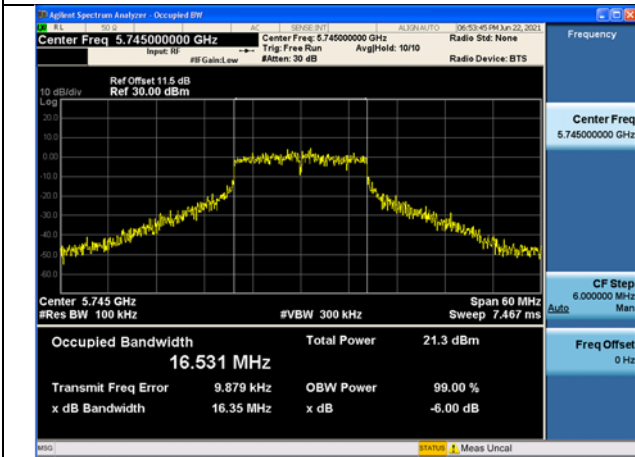
6dB Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

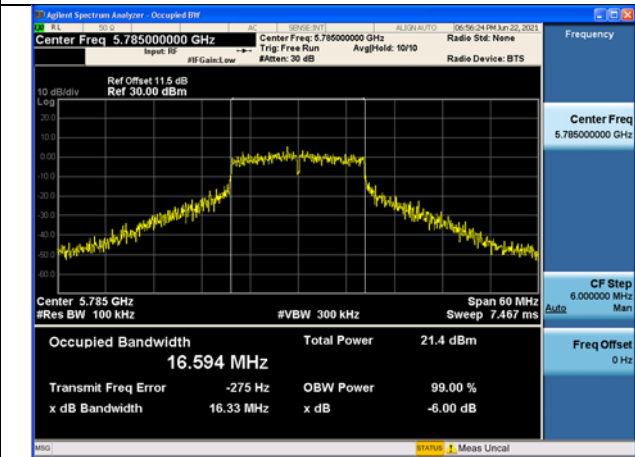
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.35
5785	Chain0	16.33
5825	Chain0	15.66

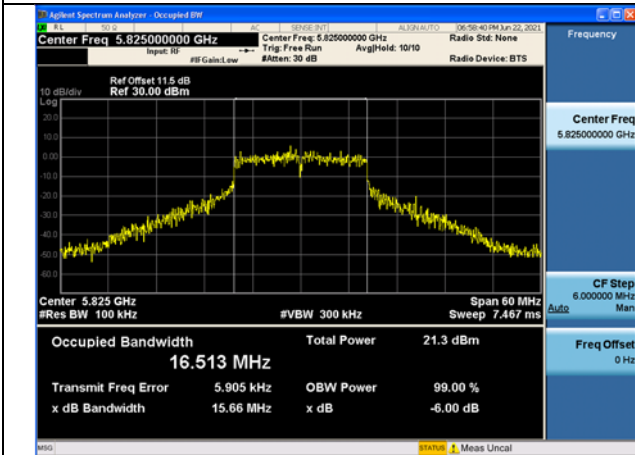
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

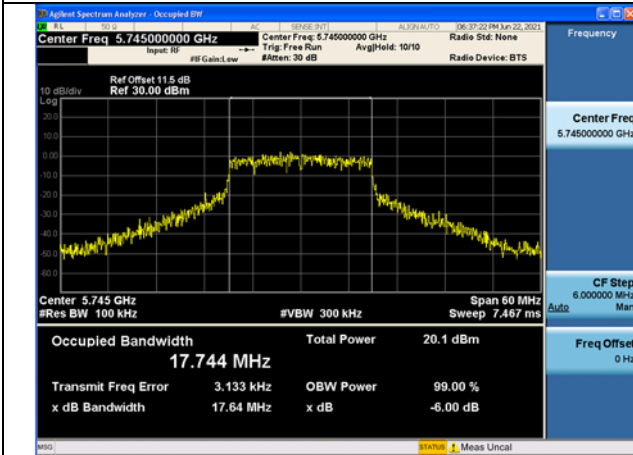




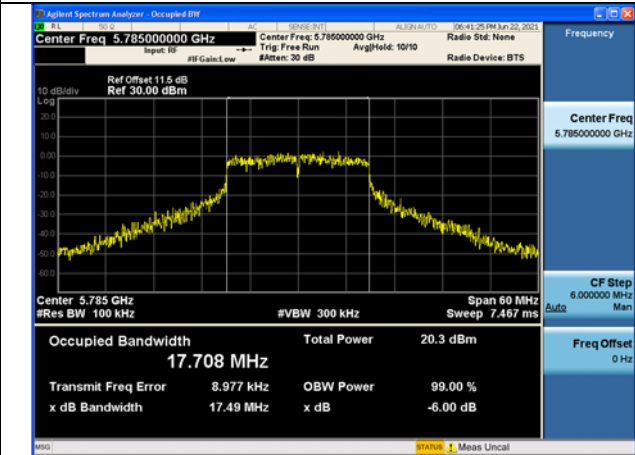
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.64
5785	Chain0	17.49
5825	Chain0	17.64

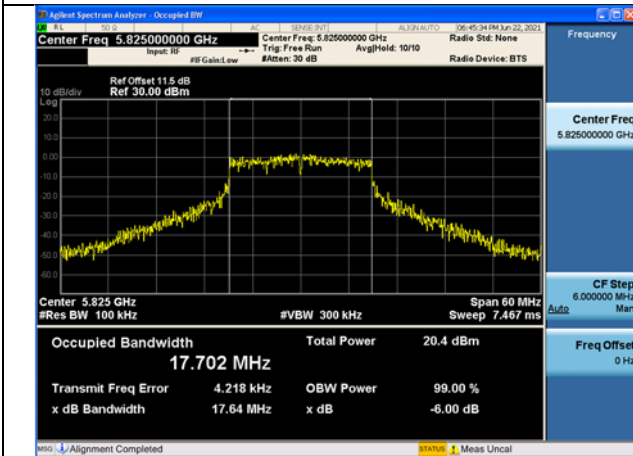
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



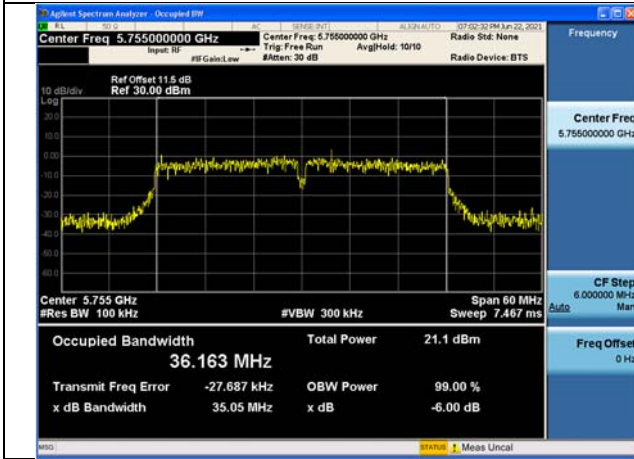
Test Mode:802. 11n HT20 Chain0



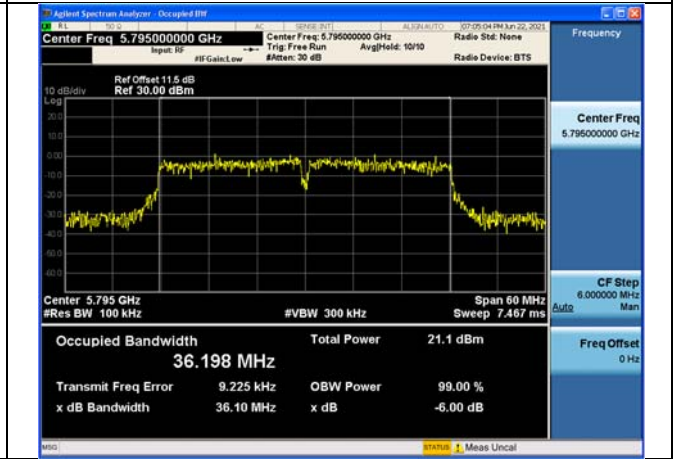
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	35.05
5795	Chain0	36.10

Test Mode:802. 11n HT40 Chain0



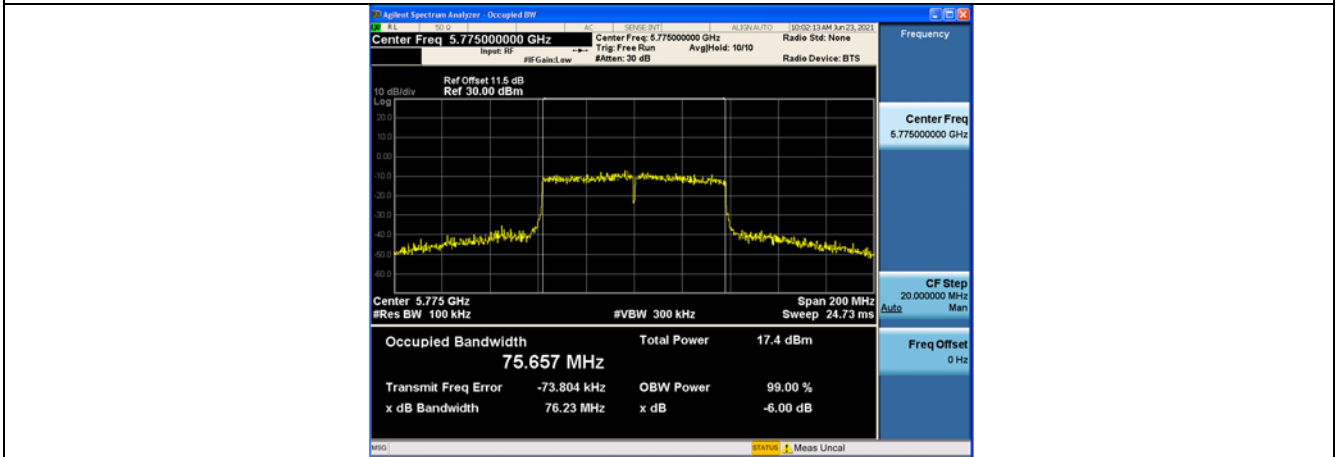
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5775	Chain0	76.23

Test Mode:802. 11ac VHT80 Chain0



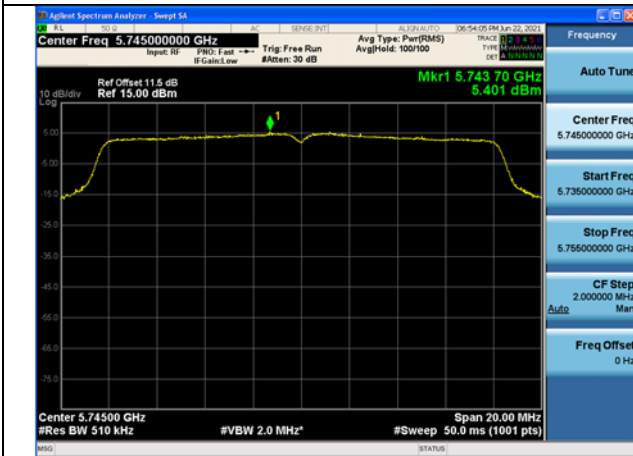
Transmitter Power Spectral Density

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

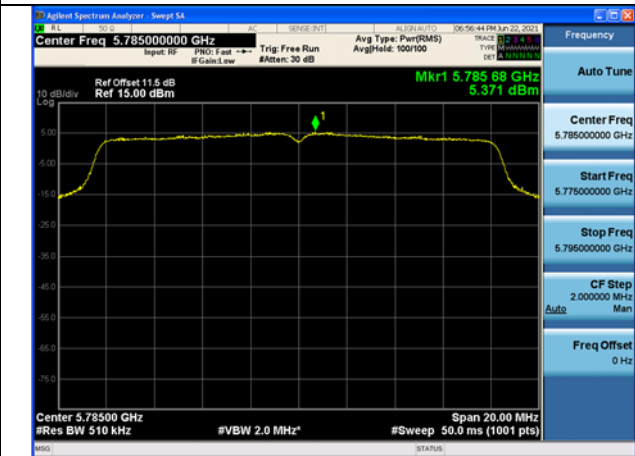
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.09	Chain0	5.491
5785		Chain0	5.461
5825		Chain0	5.565

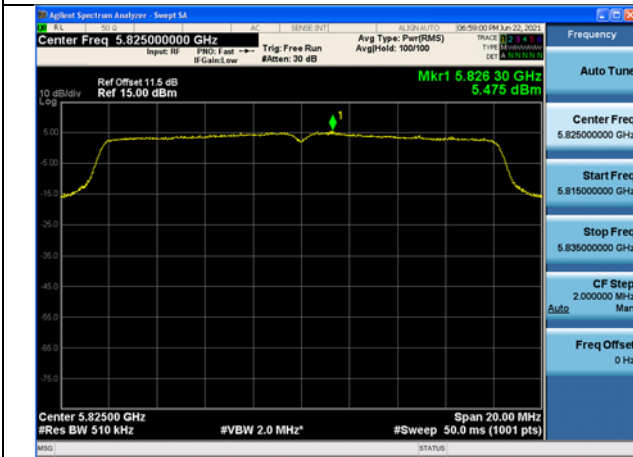
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



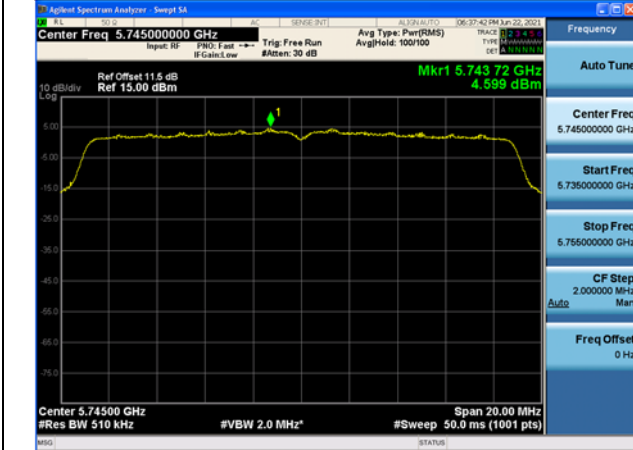
Test Mode:802.11a Chain0



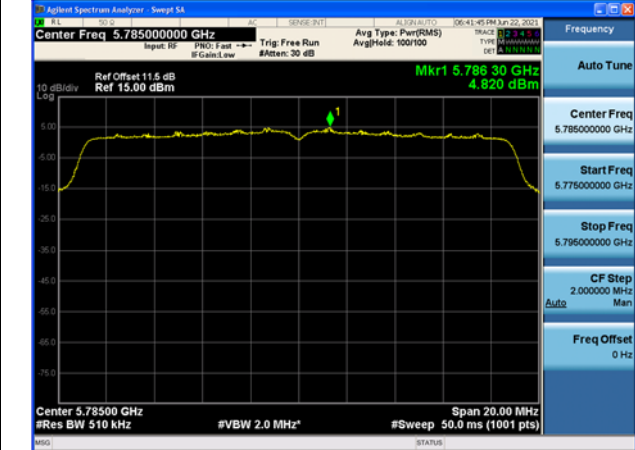
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.10	Chain0	4.699
5785		Chain0	4.920
5825		Chain0	4.966

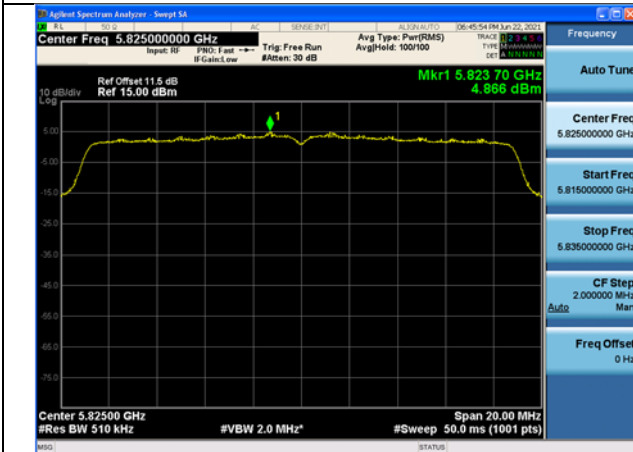
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



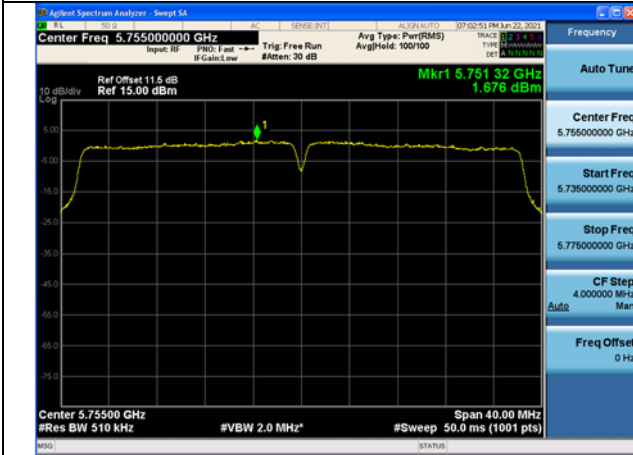
Test Mode:802. 11n HT20 Chain0



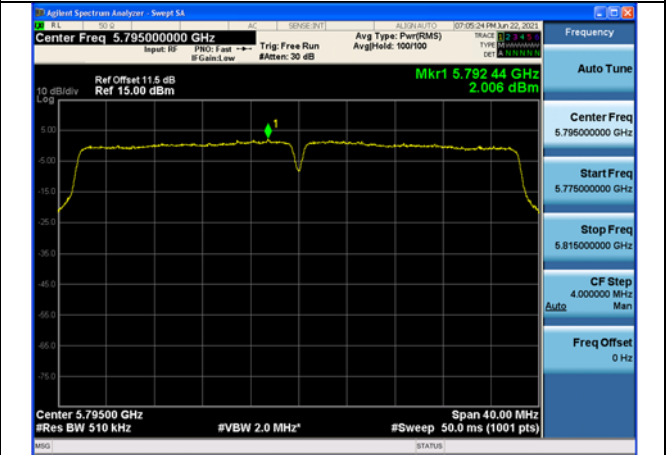
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0.21	Chain0	1.886
5795		Chain0	2.216

Test Mode:802. 11n HT40 Chain0



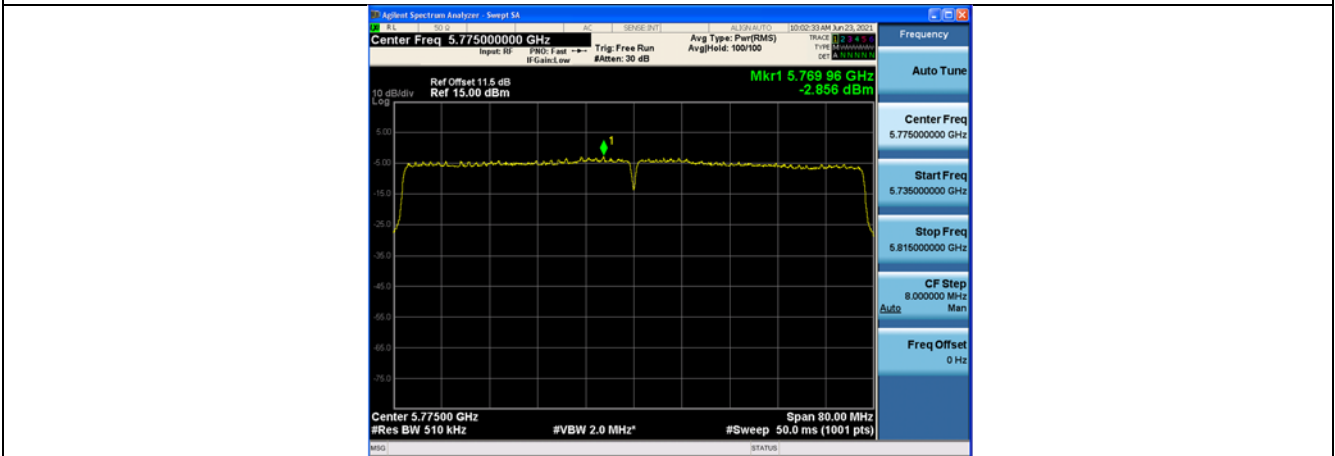
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5775	0.44	Chain0	-2.416

Test Mode:802. 11ac VHT80 Chain0



Frequency Stability  
UNII-3

Mode	Data Rate	Chain	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Chain0	5745	5744.97669	4.06	HV	+20
			5745	5744.97625	4.13	LV	+20
			5745	5744.97686	4.03	NV	+30
			5745	5744.97700	4.00	NV	+40
			5745	5744.97695	4.01	NV	+50
			5745	5744.97607	4.17	NV	+55
			5745	5744.97596	4.18	NV	+20
			5745	5744.97595	4.19	NV	+10
			5745	5744.97623	4.14	NV	0
			5745	5744.97607	4.17	NV	-10