

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	98.41%	0.07
802. 11n HT20	5745	99.35%	0.03
802. 11n HT40	5755	98.60%	0.06
802. 11ac VHT20	5745	99.32%	0.03
802. 11ac VHT40	5755	98.62%	0.06
802. 11ac VHT80	5775	97.19%	0.12

Output Power UNII-3

Mode	Freq	Chain	Conducted average
802.11a	5745	Chain0	15.05
		Chain1	17.53
	5785	Chain0	15.00
		Chain1	17.04
	5825	Chain0	15.30
		Chain1	16.47
802.11n20M	5745	Chain0	14.25
		Chain1	16.48
		Chain0+Chain1	18.52
	5785	Chain0	14.26
		Chain1	15.99
		Chain0+Chain1	18.22
	5825	Chain0	14.46
		Chain1	15.55
		Chain0+Chain1	18.05
802.11n40M	5755	Chain0	14.34
		Chain1	16.47
		Chain0+Chain1	18.54
	5795	Chain0	14.32
		Chain1	15.98
		Chain0+Chain1	18.24
802.11ac20M	5745	Chain0	13.27
		Chain1	15.59
		Chain0+Chain1	17.59
	5785	Chain0	13.27
		Chain1	15.15
		Chain0+Chain1	17.32
	5825	Chain0	13.55
		Chain1	14.73
		Chain0+Chain1	17.19
802.11ac40M	5755	Chain0	13.48
		Chain1	15.62
		Chain0+Chain1	17.69
	5795	Chain0	13.42
		Chain1	15.14
		Chain0+Chain1	17.37
802.11ac80M	5775	Chain0	13.09
		Chain1	15.08
		Chain0+Chain1	17.21

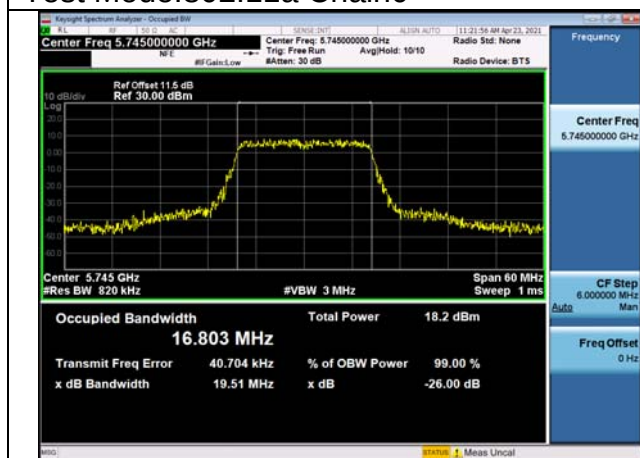
Emission Bandwidth

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

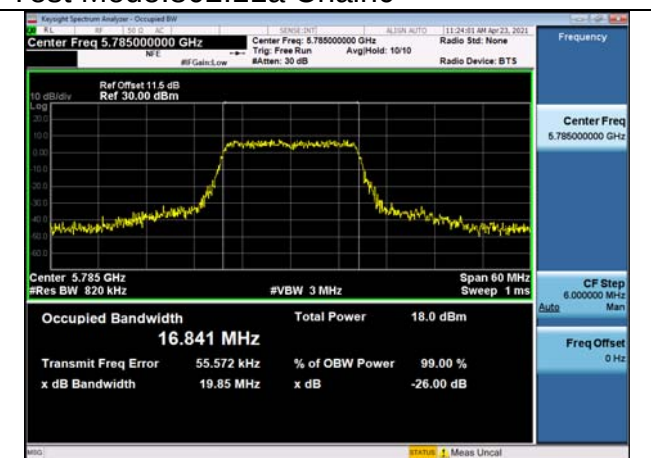
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	19.51
	Chain1	19.48
5785	Chain0	19.85
	Chain1	19.39
5825	Chain0	19.22
	Chain1	19.60

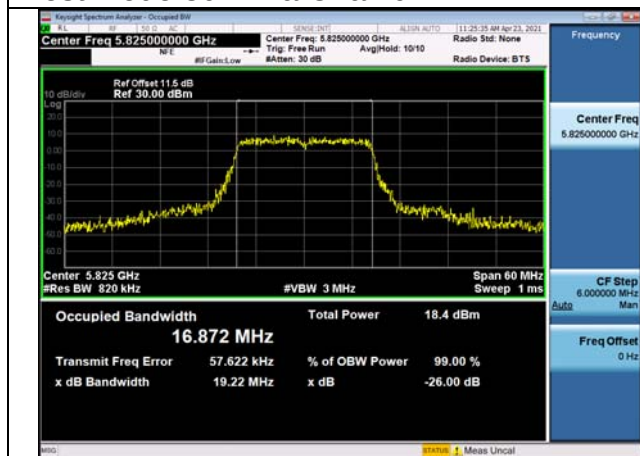
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

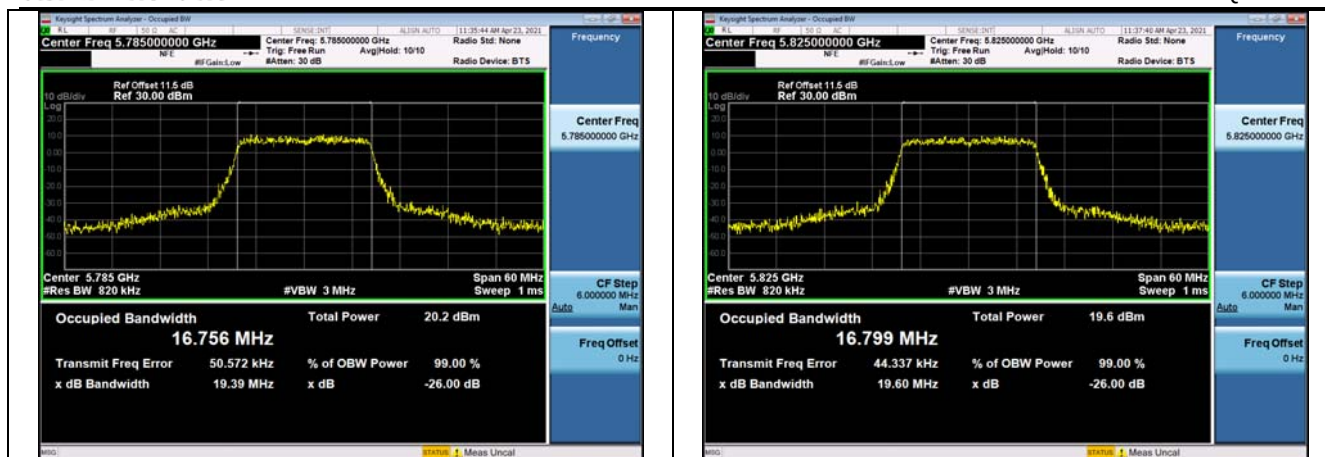


Test Mode:802.11a Chain1



Test Mode:802.11a Chain1

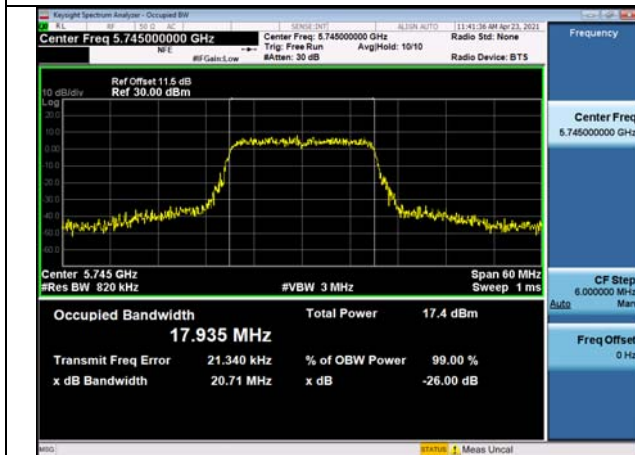
Test Mode:802.11a Chain1



Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	20.71
	Chain1	20.65
5785	Chain0	19.95
	Chain1	20.90
5825	Chain0	20.59
	Chain1	20.71

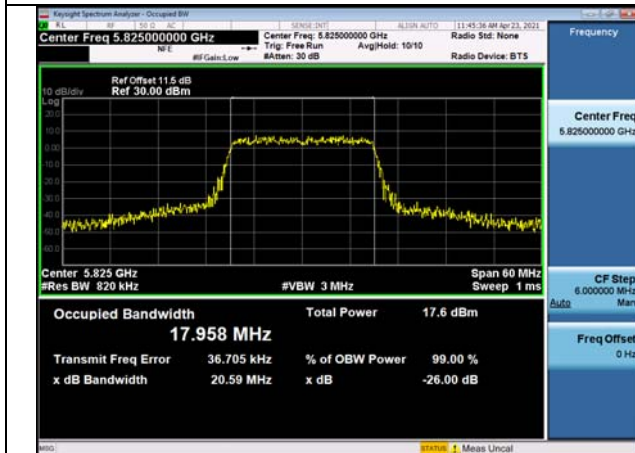
Test Mode:802. 11n HT20 Chain0



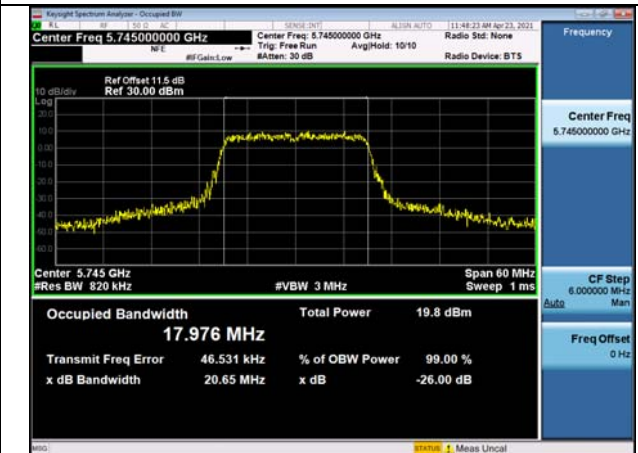
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

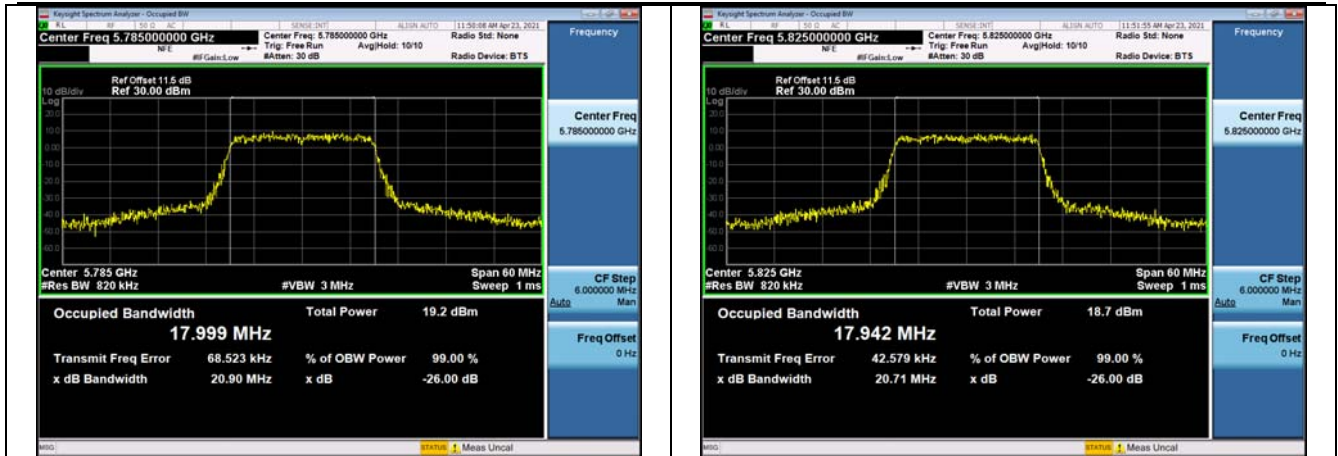


Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

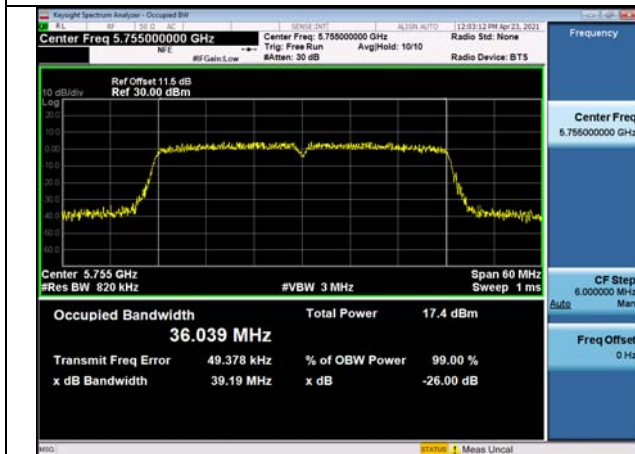
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	39.19
	Chain1	39.12
5795	Chain0	38.92
	Chain1	38.90

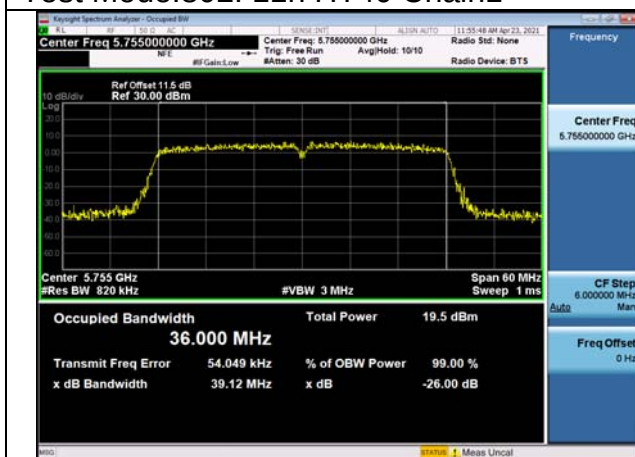
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



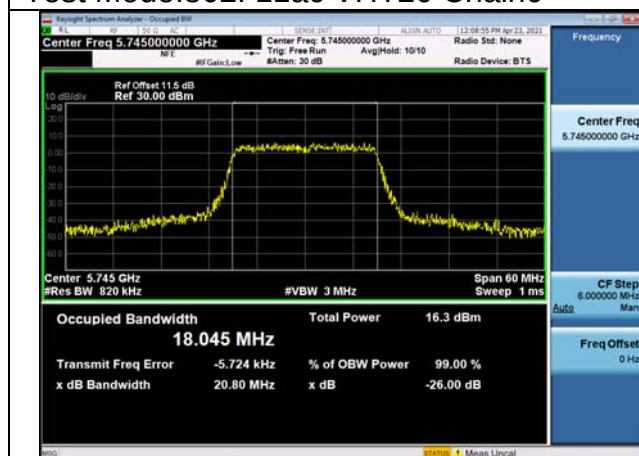
Test Mode:802. 11n HT40 Chain1



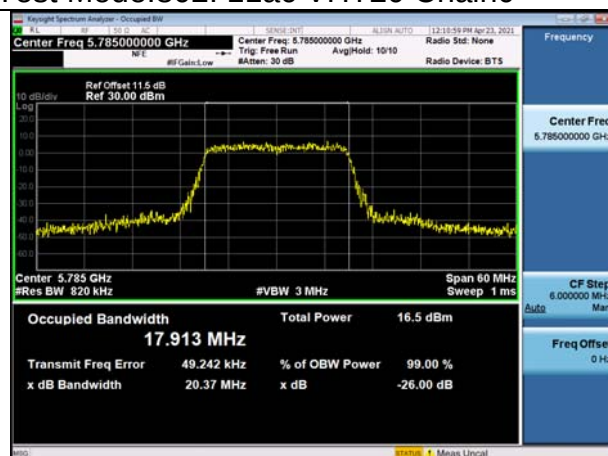
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	20.80
	Chain1	20.21
5785	Chain0	20.37
	Chain1	20.72
5825	Chain0	20.42
	Chain1	20.47

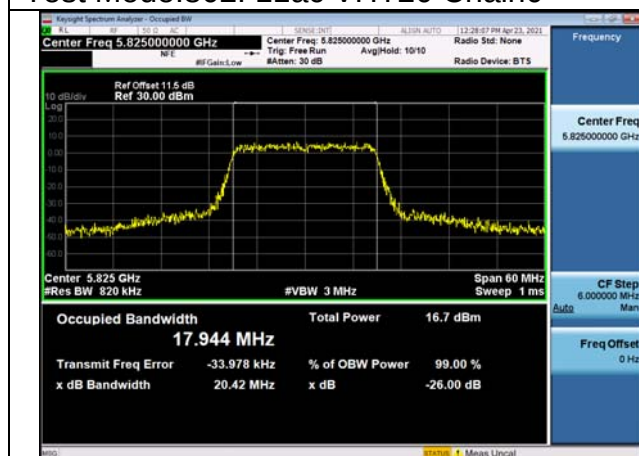
Test Mode:802. 11ac VHT20 Chain0



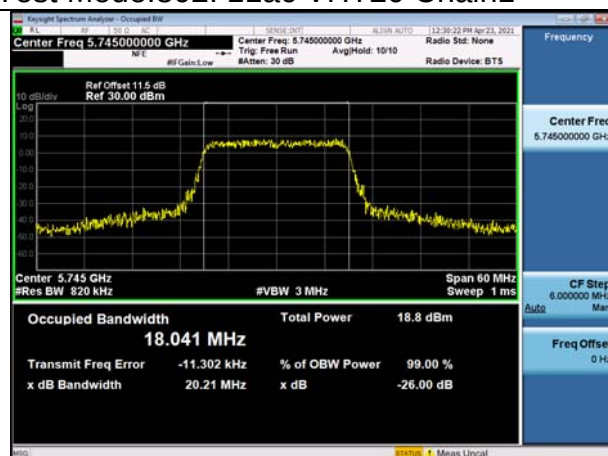
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0

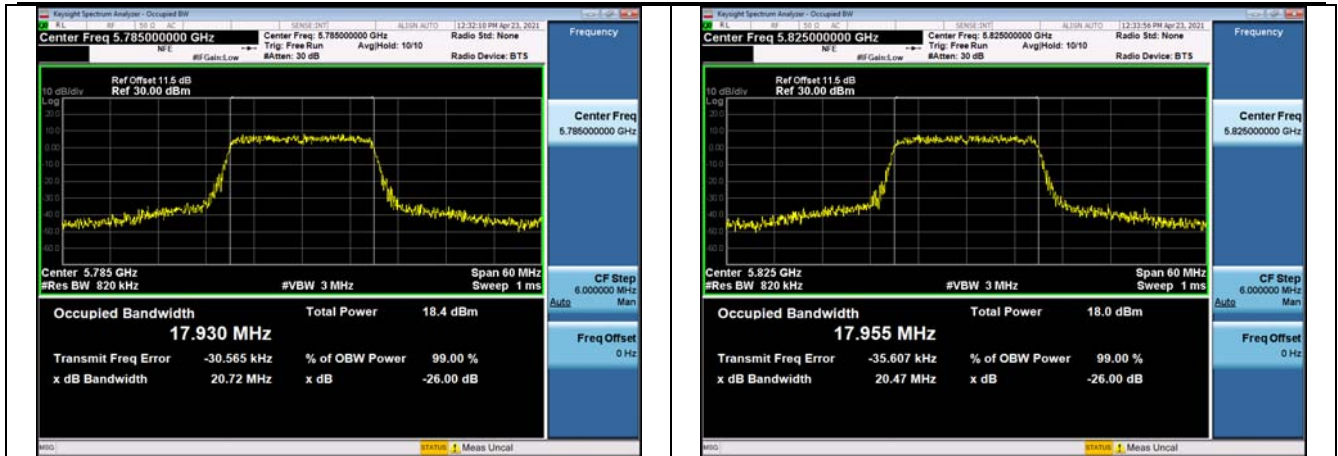


Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1

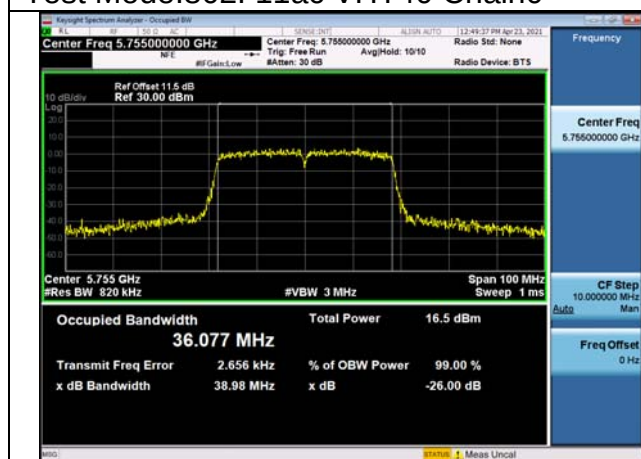
Test Mode:802. 11ac VHT20 Chain1



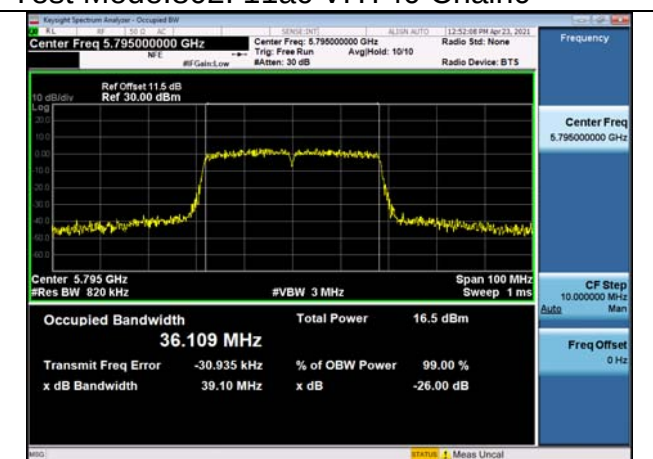
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	38.98
	Chain1	39.12
5795	Chain0	39.10
	Chain1	38.97

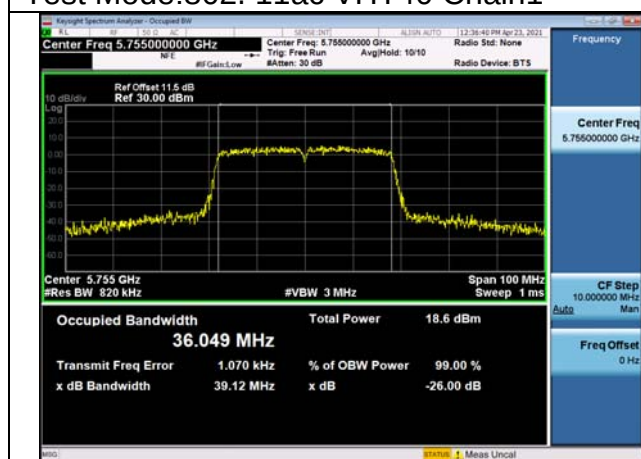
Test Mode:802. 11ac VHT40 Chain0



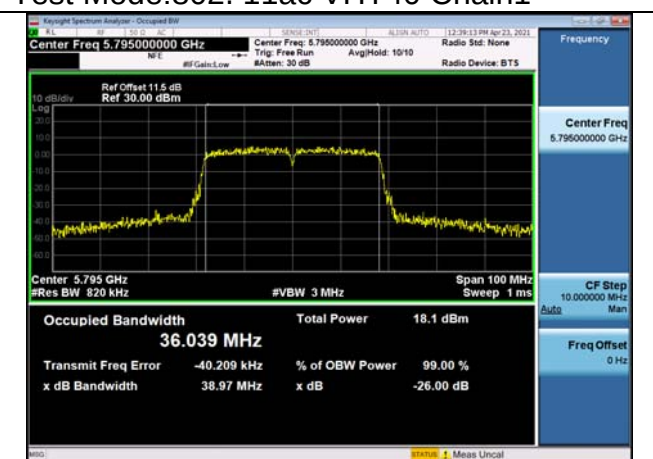
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



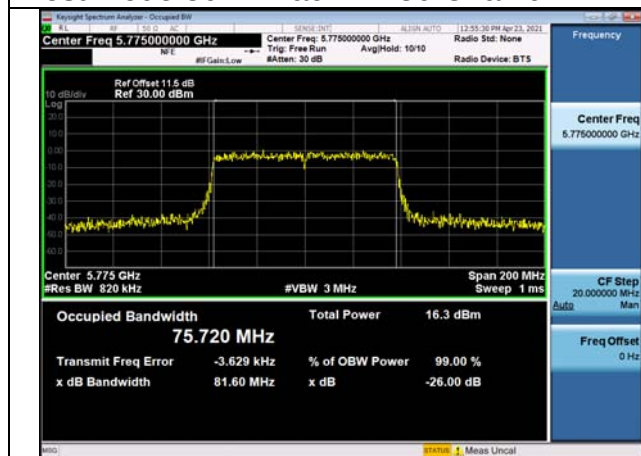
Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain0	81.60
	Chain1	81.22

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



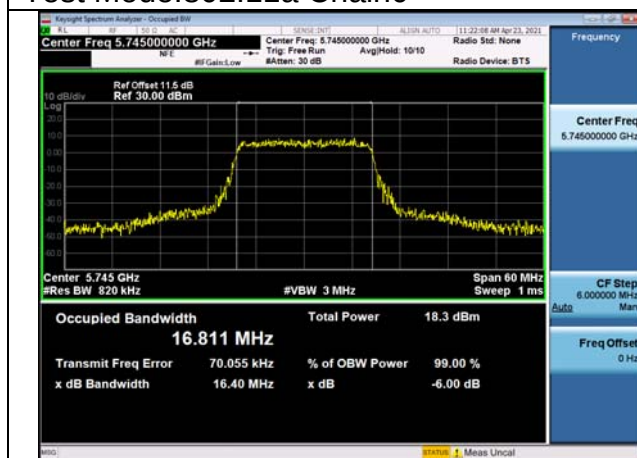
Occupied Bandwidth

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

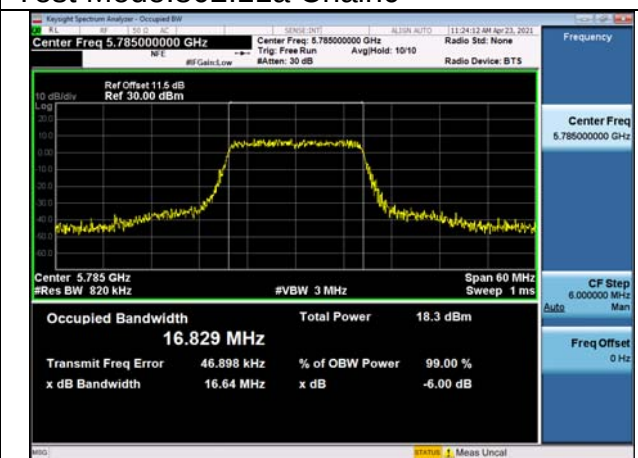
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	16.811
	Chain1	16.825
5785	Chain0	16.829
	Chain1	16.830
5825	Chain0	16.823
	Chain1	16.854

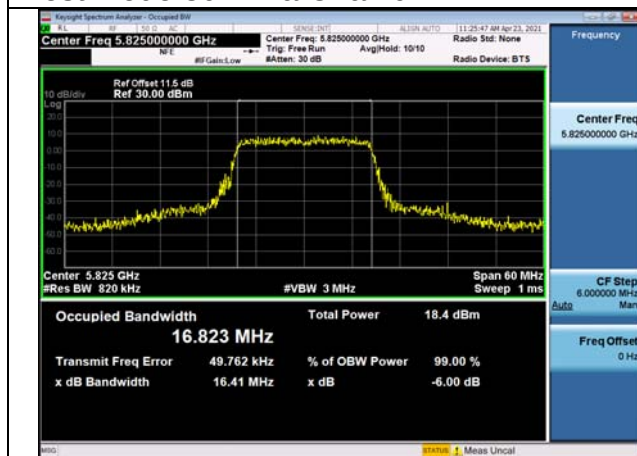
Test Mode:802.11a Chain0



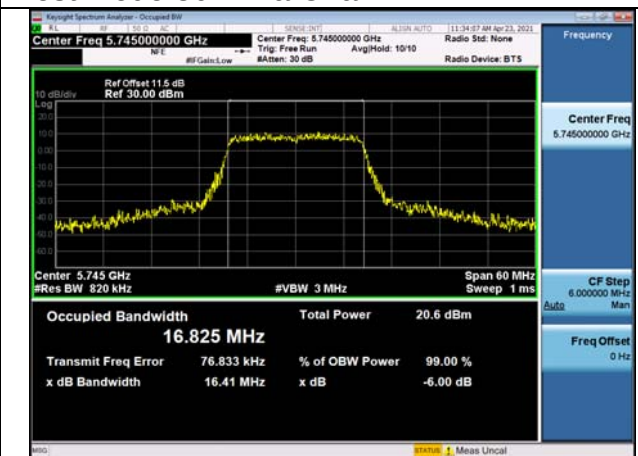
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

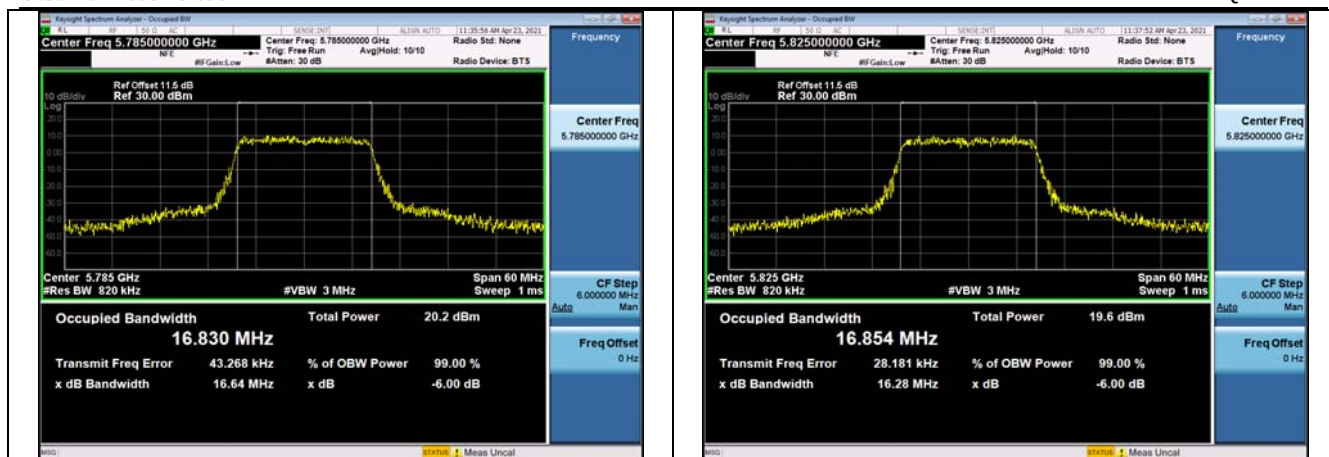


Test Mode:802.11a Chain1



Test Mode:802.11a Chain1

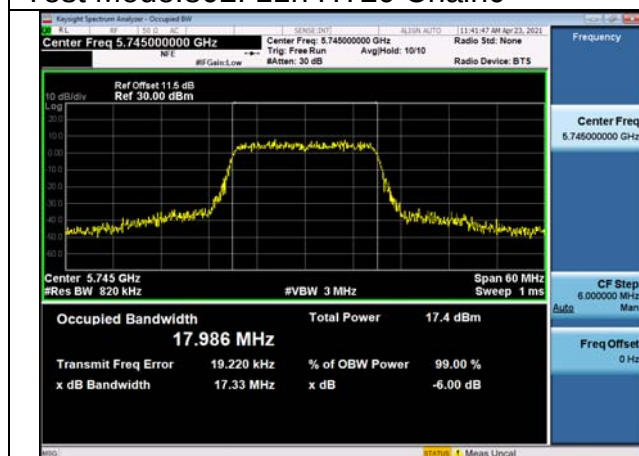
Test Mode:802.11a Chain1



Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.986
	Chain1	17.925
5785	Chain0	17.905
	Chain1	17.967
5825	Chain0	17.981
	Chain1	17.965

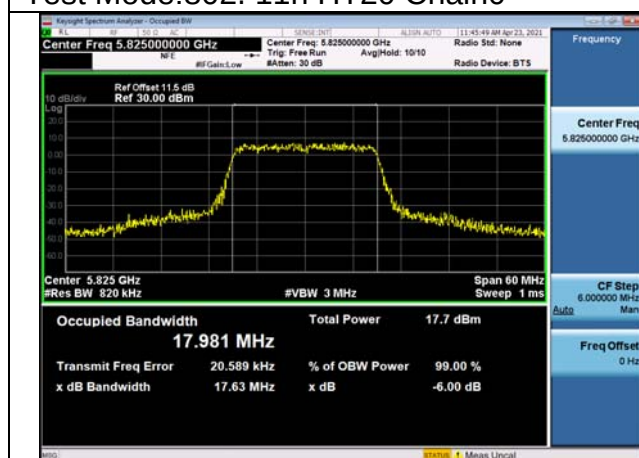
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

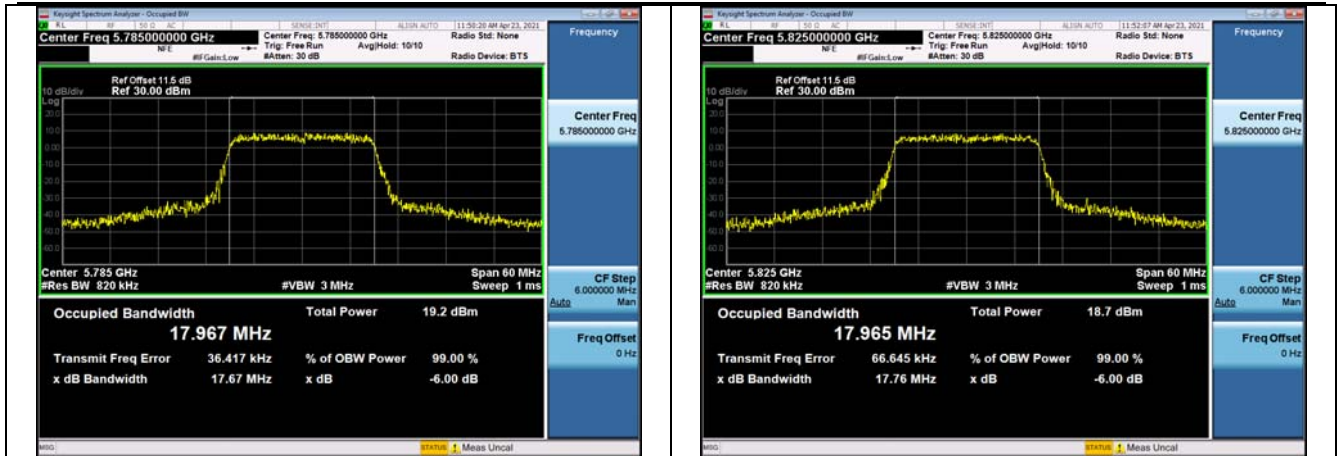


Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

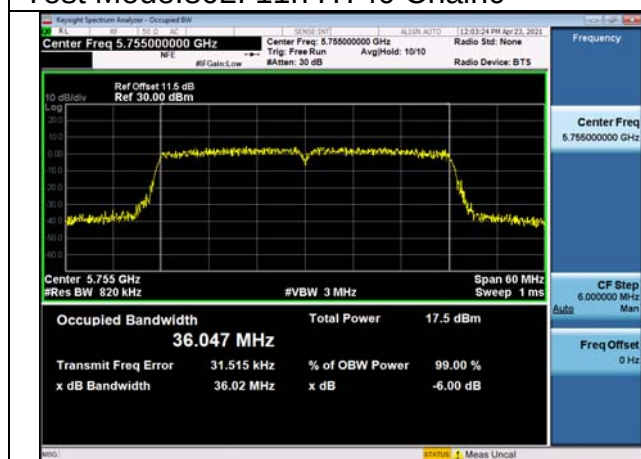
Test Mode:802. 11n HT20 Chain1



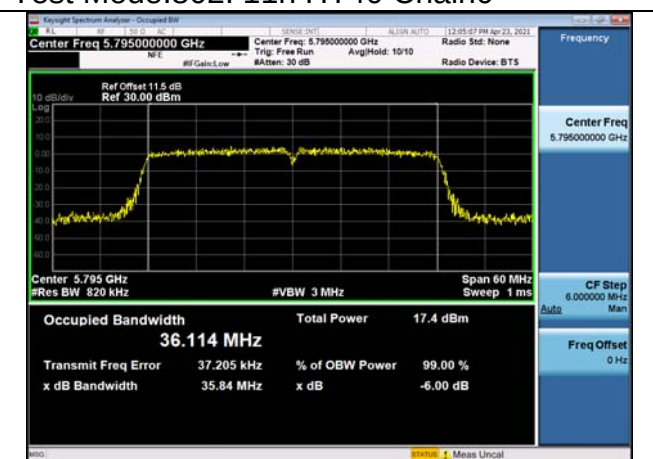
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.047
	Chain1	36.013
5795	Chain0	36.114
	Chain1	36.103

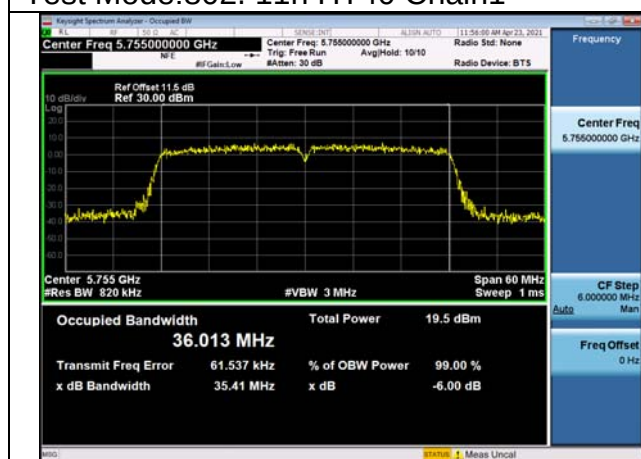
Test Mode:802. 11n HT40 Chain0



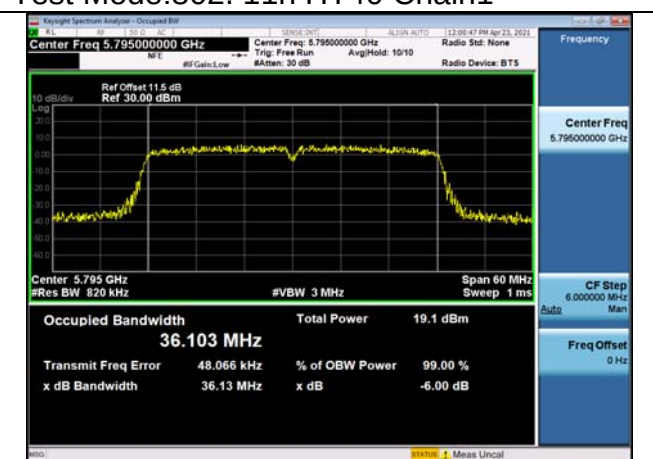
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



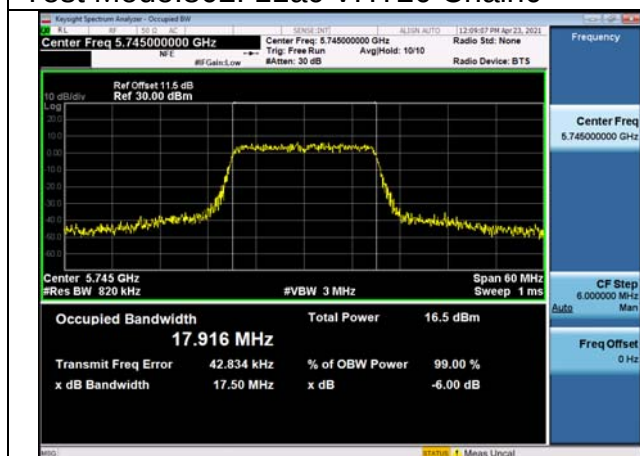
Test Mode:802. 11n HT40 Chain1



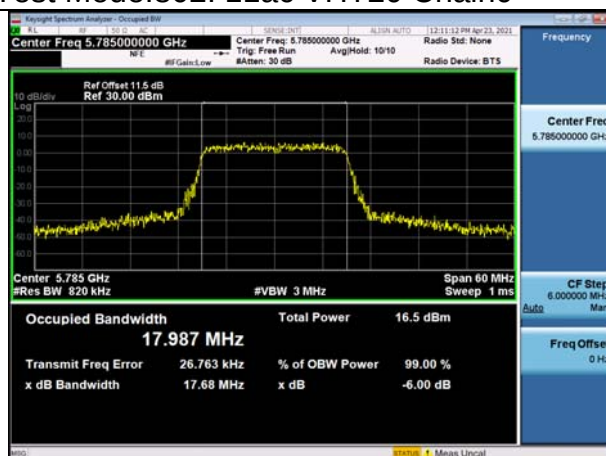
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.916
	Chain1	18.034
5785	Chain0	17.987
	Chain1	17.905
5825	Chain0	17.981
	Chain1	18.001

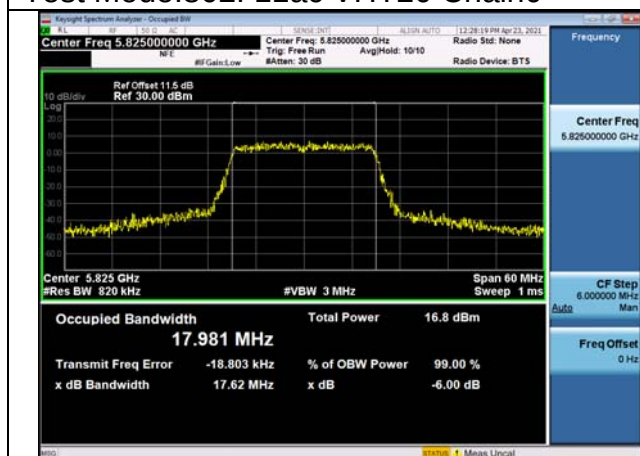
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0

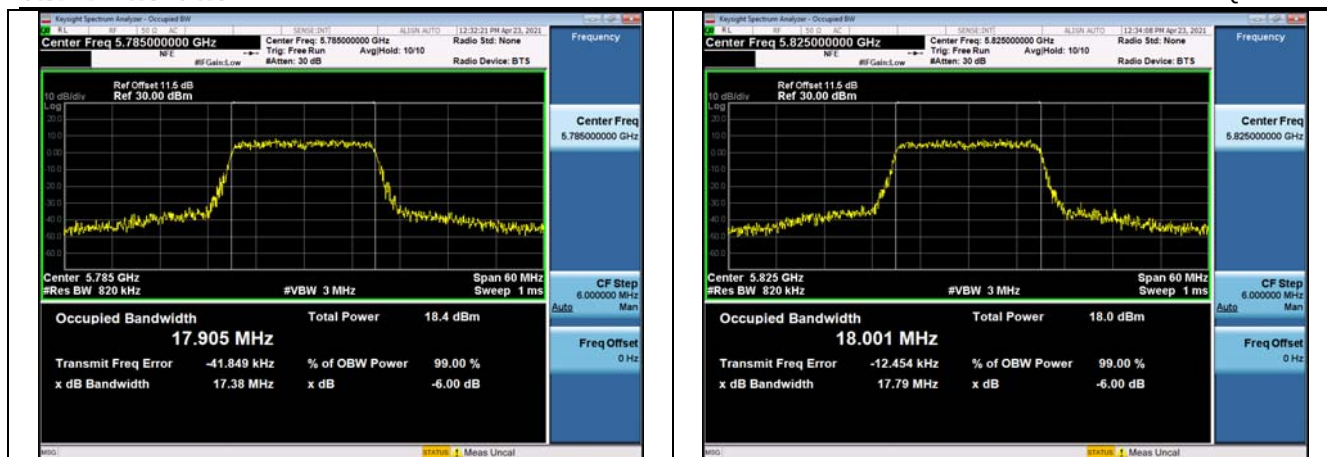


Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1

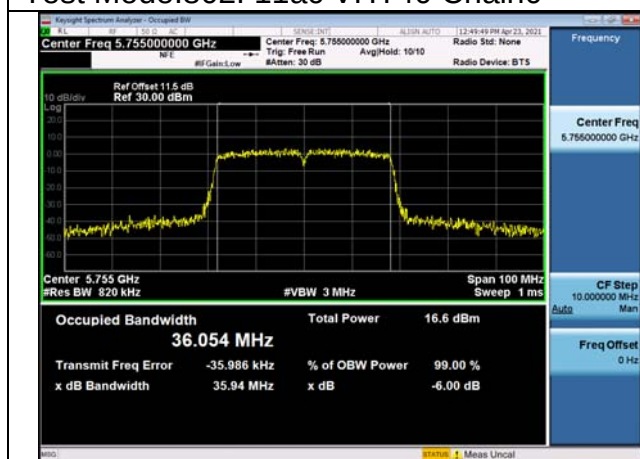
Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.054
	Chain1	36.096
5795	Chain0	36.048
	Chain1	36.109

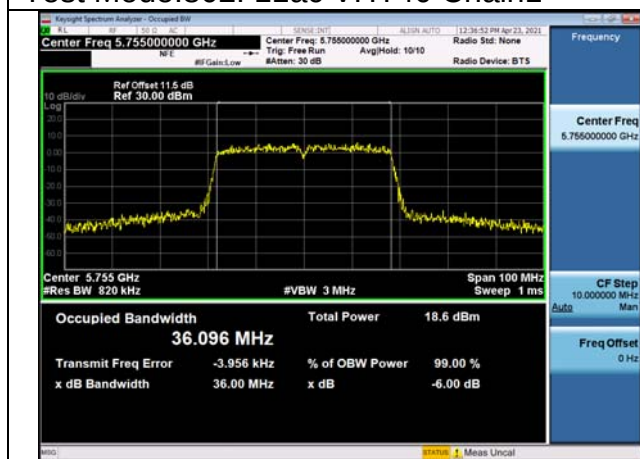
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



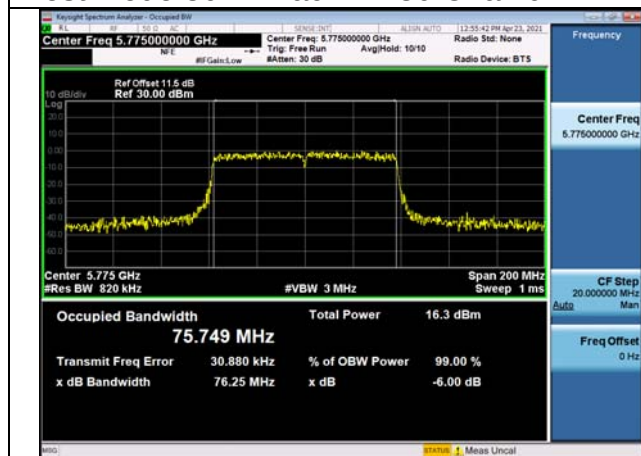
Test Mode:802. 11ac VHT40 Chain1



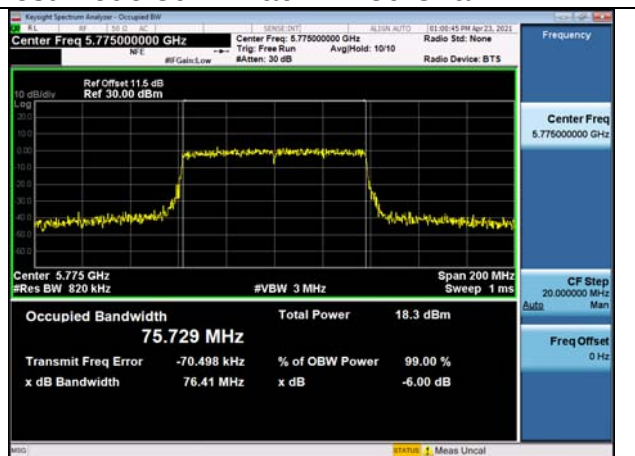
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5775	Chain0	75.749
	Chain1	75.729

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



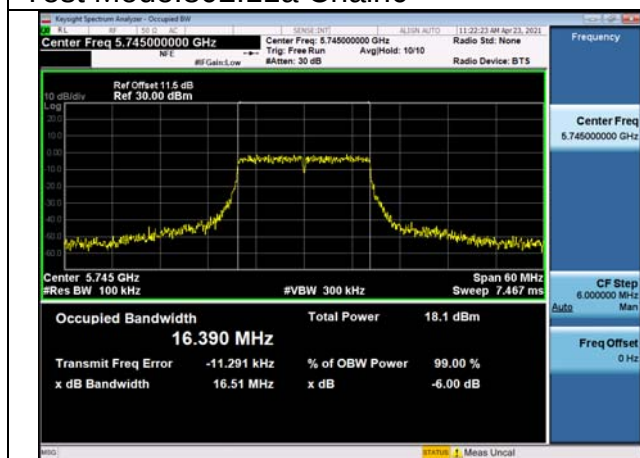
6dB Bandwidth

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

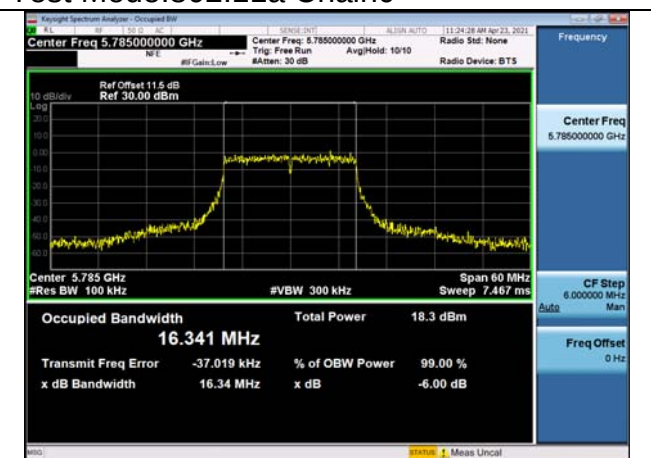
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.51
	Chain1	16.45
5785	Chain0	16.34
	Chain1	16.45
5825	Chain0	16.46
	Chain1	16.36

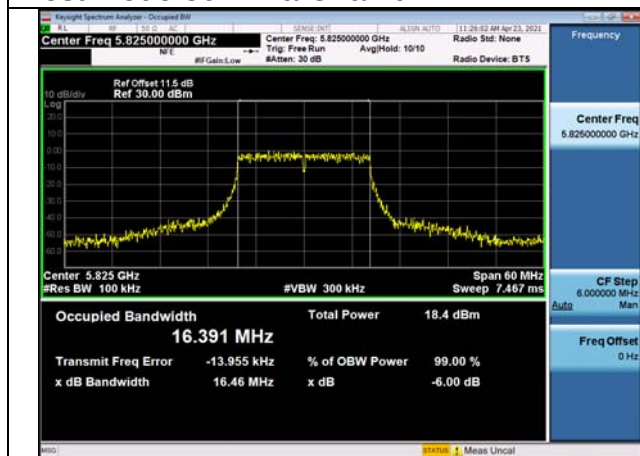
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

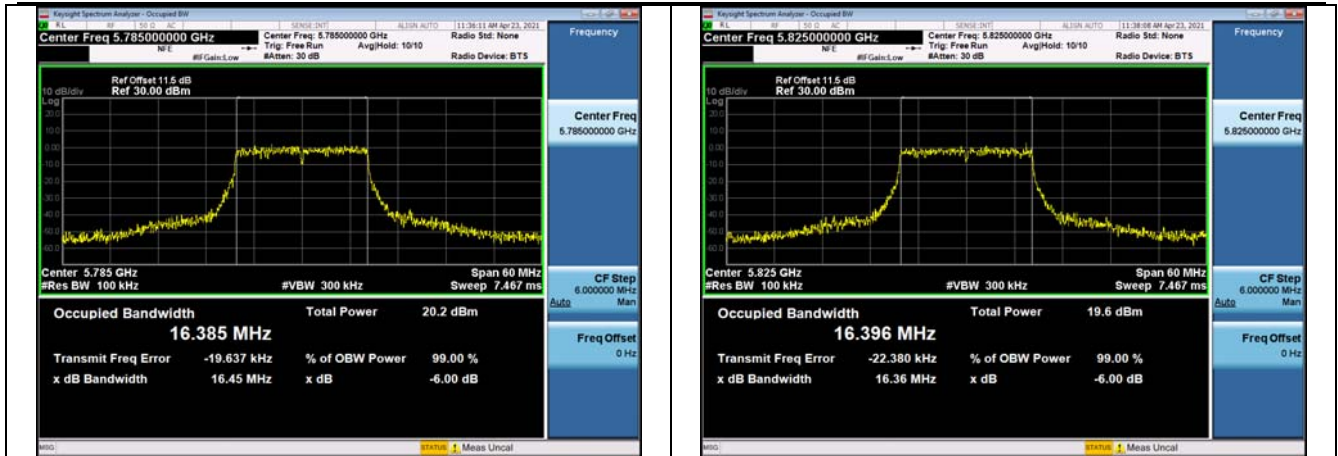


Test Mode:802.11a Chain1



Test Mode:802.11a Chain1

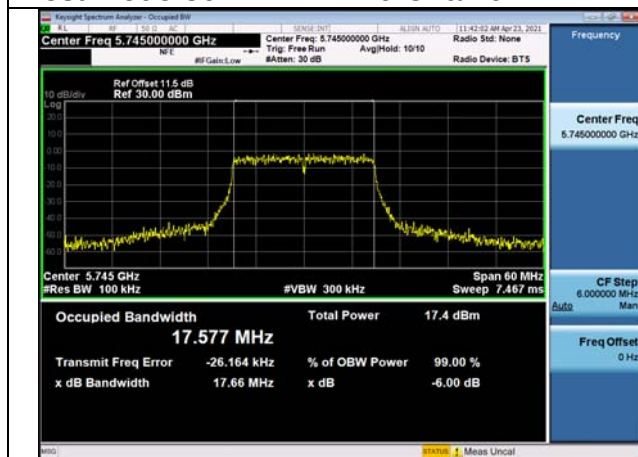
Test Mode:802.11a Chain1



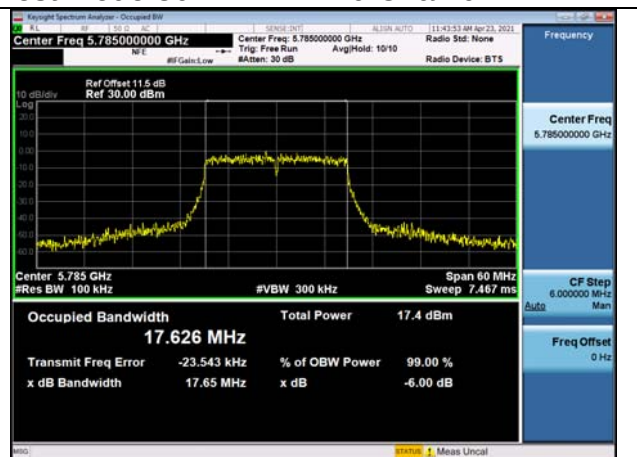
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.66
	Chain1	17.71
5785	Chain0	17.65
	Chain1	17.62
5825	Chain0	17.64
	Chain1	17.68

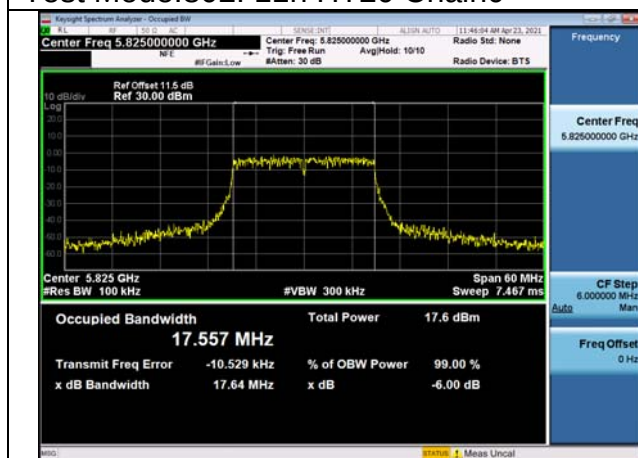
Test Mode:802. 11n HT20 Chain0



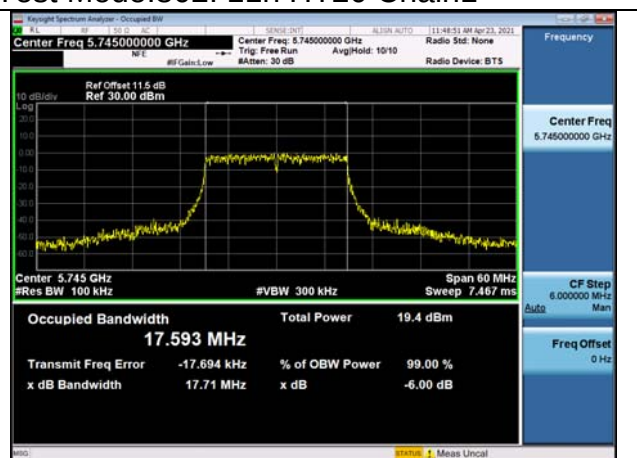
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

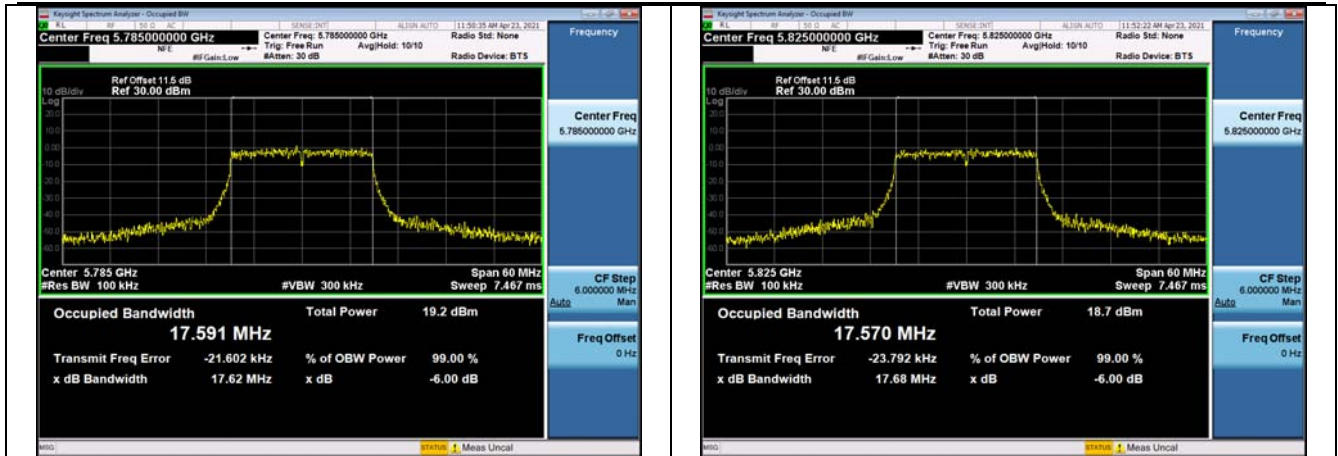


Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

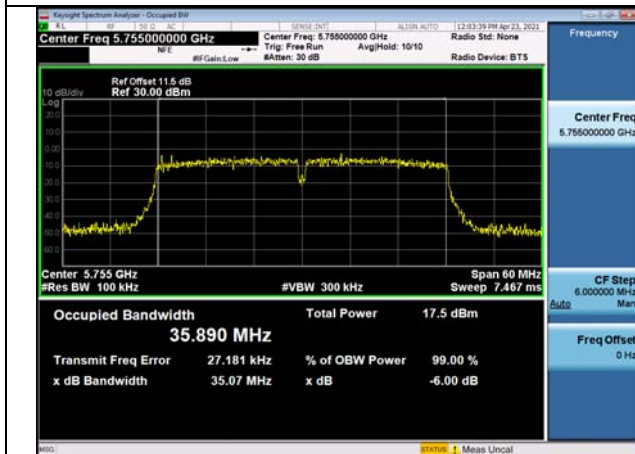
Test Mode:802. 11n HT20 Chain1



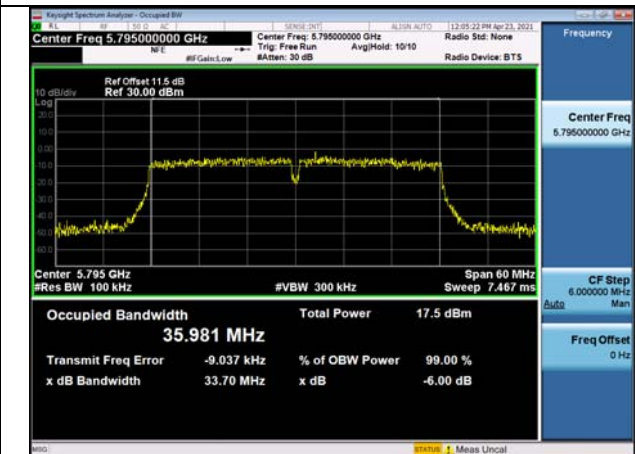
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	35.07
	Chain1	35.93
5795	Chain0	33.70
	Chain1	36.38

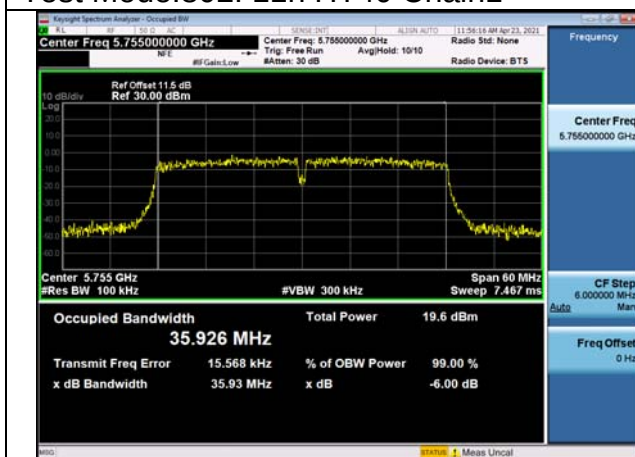
Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



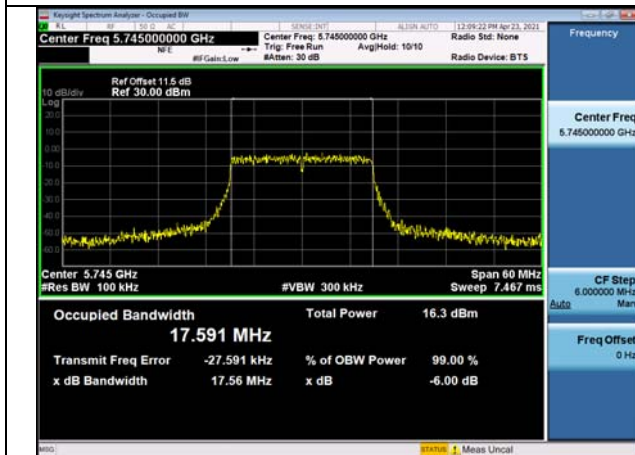
Test Mode:802. 11n HT40 Chain1



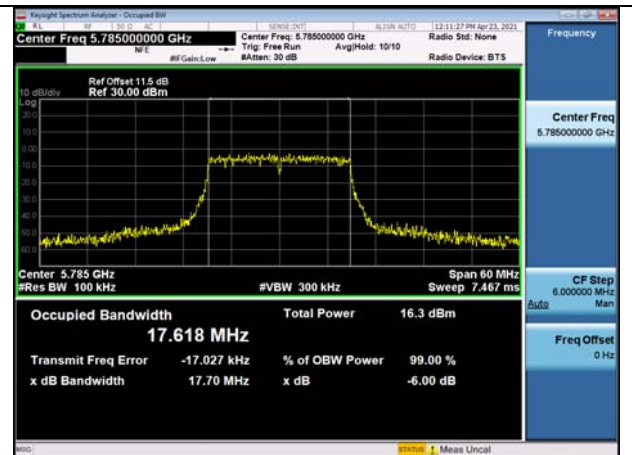
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.56
	Chain1	17.66
5785	Chain0	17.70
	Chain1	17.67
5825	Chain0	17.68
	Chain1	17.68

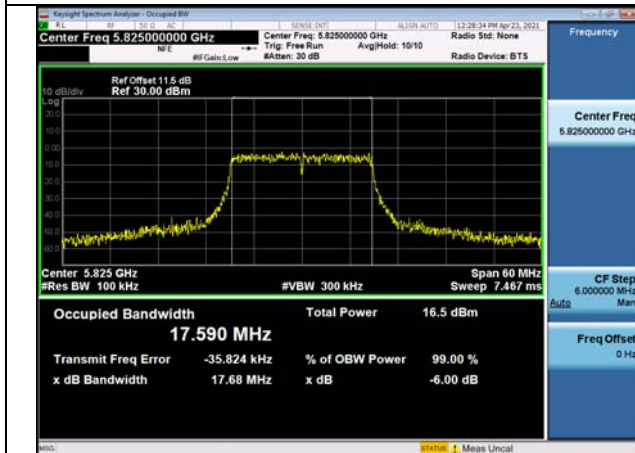
Test Mode:802. 11ac VHT20 Chain0



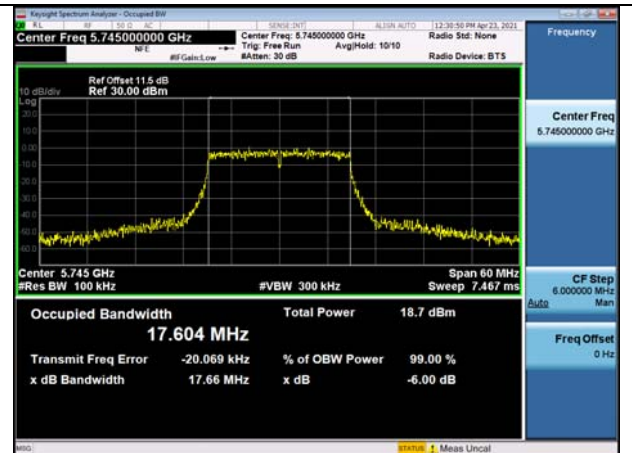
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0

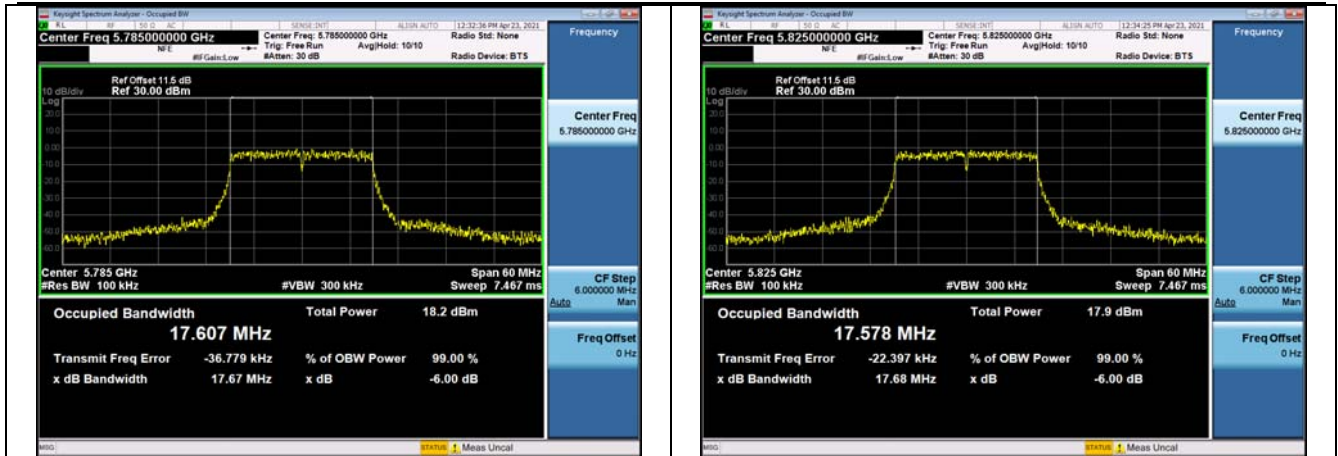


Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1

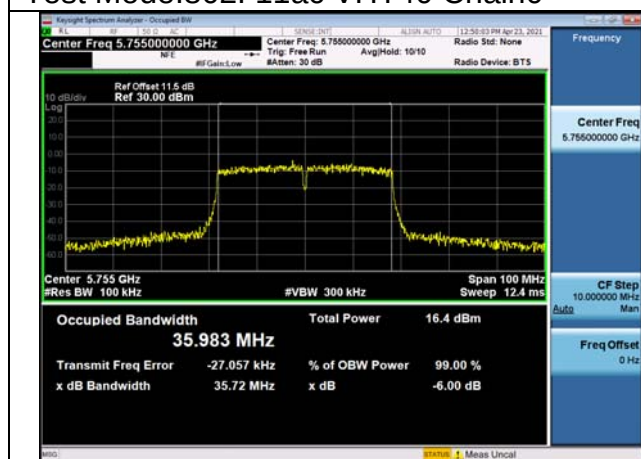
Test Mode:802. 11ac VHT20 Chain1



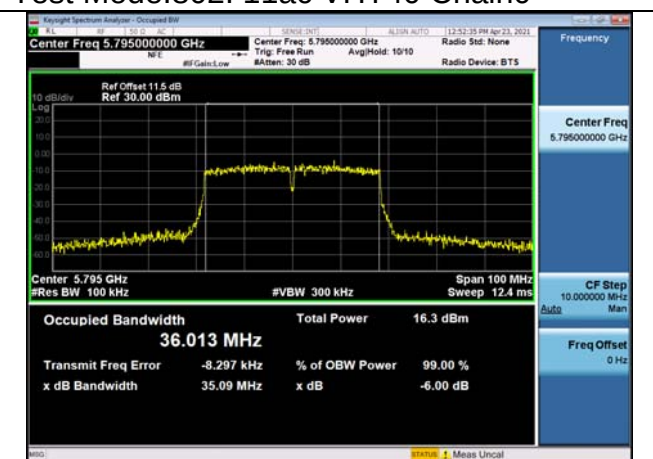
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	35.72
	Chain1	36.38
5795	Chain0	35.09
	Chain1	36.33

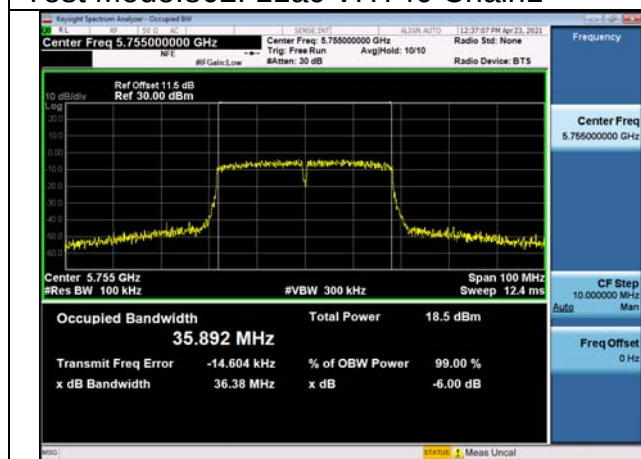
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



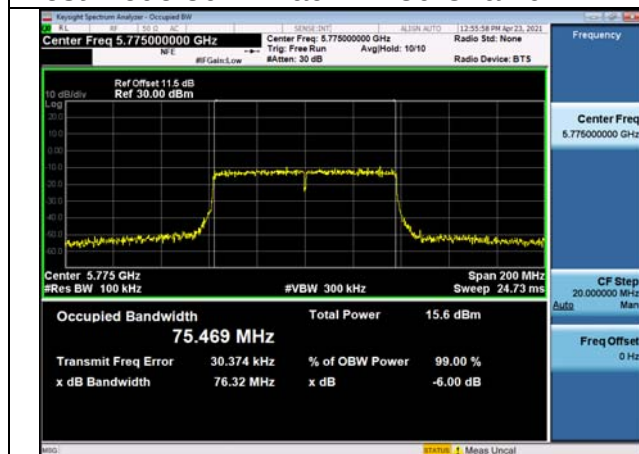
Test Mode:802. 11ac VHT40 Chain1



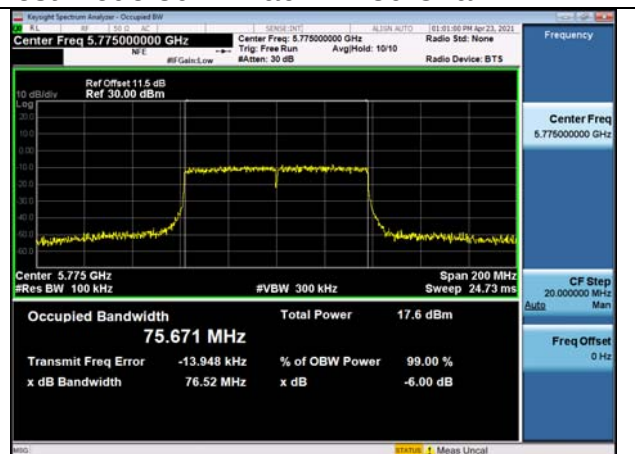
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5775	Chain0	76.32
	Chain1	76.52

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



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	0.07	Chain0	1.986
		Chain1	4.599
		Chain0+Chain1	6.496
5785		Chain0	1.854
		Chain1	3.898
		Chain0+Chain1	6.005
5825		Chain0	2.519
		Chain1	3.404
		Chain0+Chain1	5.994

Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

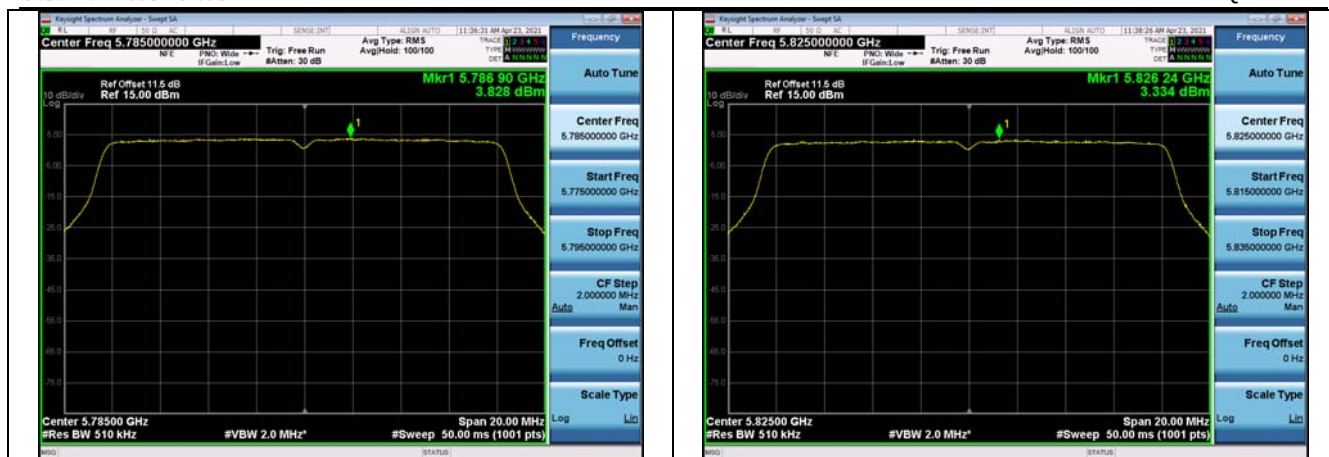


Test Mode:802.11a Chain1



Test Mode:802.11a Chain1

Test Mode:802.11a Chain1



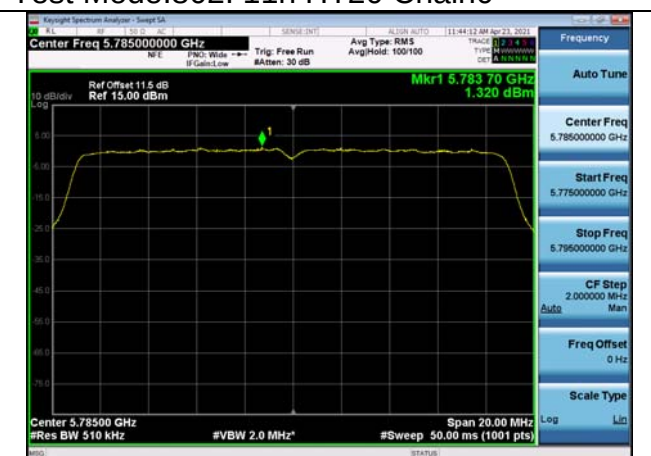
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.03	Chain0	1.06
		Chain1	3.133
		Chain0+Chain1	5.229
5785		Chain0	1.35
		Chain1	2.998
		Chain0+Chain1	5.262
5825		Chain0	1.495
		Chain1	2.419
		Chain0+Chain1	4.992

Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

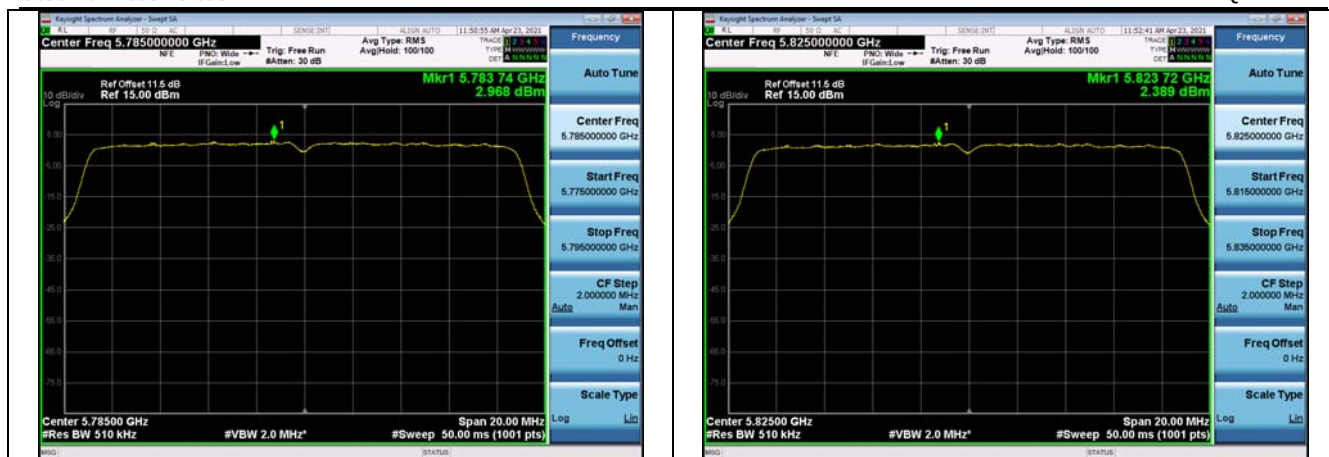


Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1

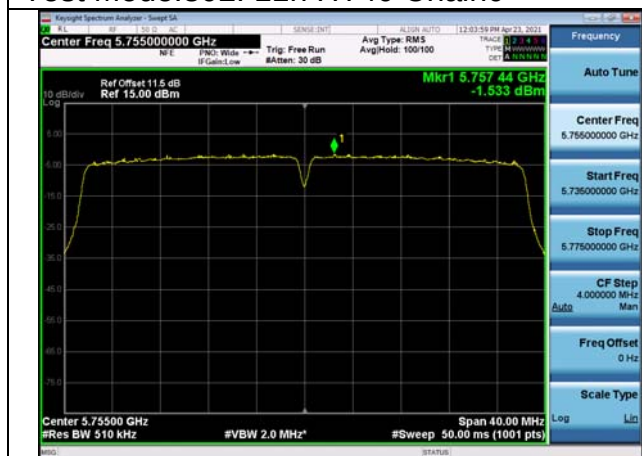
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0.06	Chain0	-1.473
		Chain1	0.927
		Chain0+Chain1	2.901
5795		Chain0	-1.115
		Chain1	0.401
		Chain0+Chain1	2.719

Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0.03	Chain0	-0.027
		Chain1	2.333
		Chain0+Chain1	4.322
5785		Chain0	-0.131
		Chain1	1.756
		Chain0+Chain1	3.924
5825		Chain0	0.144
		Chain1	1.391
		Chain0+Chain1	3.822

Test Mode:802. 11ac VHT20 Chain0



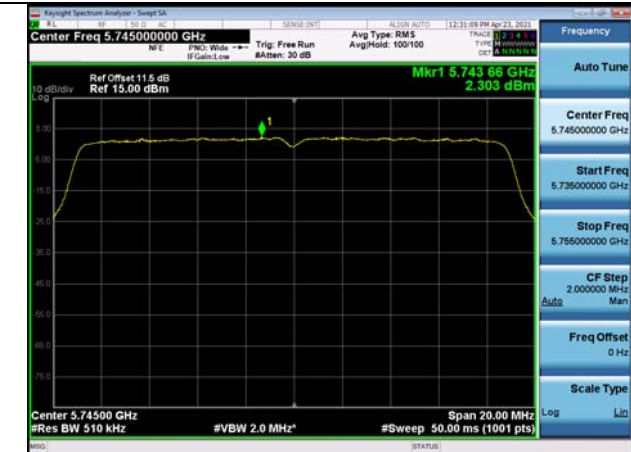
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1

Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0.06	Chain0	-2.319
		Chain1	-0.252
		Chain0+Chain1	1.847
5795		Chain0	-2.554
		Chain1	-0.884
		Chain0+Chain1	1.371

Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



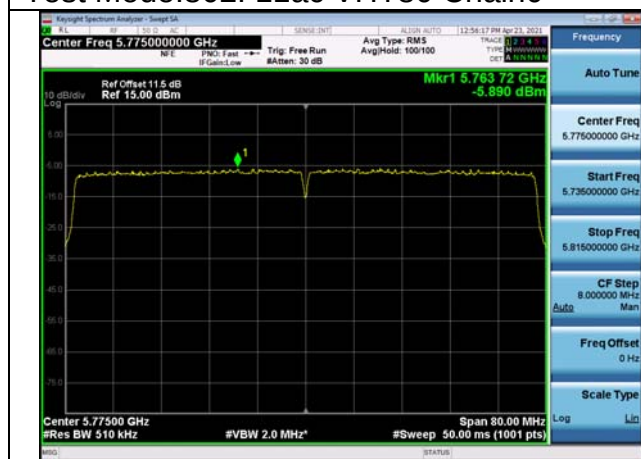
Test Mode:802. 11ac VHT40 Chain1



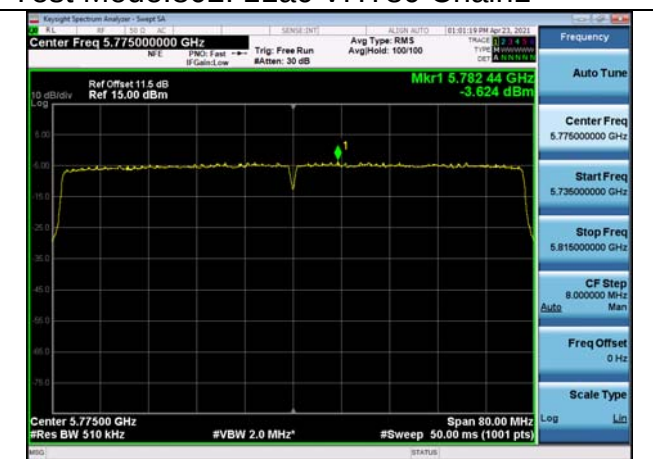
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5775	0.12	Chain0	-5.77
		Chain1	-3.504
		Chain0+Chain1	-1.481

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



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	5744.96716	5.72	HV	+20
			5745	5744.96714	5.72	LV	+20
			5745	5744.96718	5.71	NV	+30
			5745	5744.96721	5.71	NV	+50
			5745	5744.9672	5.71	NV	+40
			5745	5744.96703	5.74	NV	-10
			5745	5744.96695	5.75	NV	-20
			5745	5744.96692	5.76	NV	+55
			5745	5744.96713	5.72	NV	+20
			5745	5744.96709	5.73	NV	+10
		Chain1	5745	5744.96708	5.73	NV	0
			5745	5744.96749	5.66	HV	+20
			5745	5744.96744	5.67	LV	+20
			5745	5744.96742	5.67	NV	+20
			5745	5744.96764	5.63	NV	+50
			5745	5744.9676	5.64	NV	+40
			5745	5744.96756	5.65	NV	+30
			5745	5744.96707	5.73	NV	-20
			5745	5744.96702	5.74	NV	+55
			5745	5744.9671	5.73	NV	-10
			5745	5744.96727	5.70	NV	+10
			5745	5744.96714	5.72	NV	0