

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

### **Duty Cycle**

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	99.26%	0
802.11a	5745	99.17%	0
802. 11n HT20	5745	99.04%	0
802. 11n HT20	5745	99.05%	0
802. 11n HT40	5755	98.16%	0
802. 11n HT40	5755	98.18%	0
802. 11ac VHT20	5745	99.07%	0
802. 11ac VHT20	5745	99.07%	0
802. 11ac VHT40	5755	98.20%	0
802. 11ac VHT40	5755	98.18%	0
802. 11ac VHT80	5775	96.54%	0.15
802. 11ac VHT80	5775	96.65%	0.15

## Output Power NII3

Mode	Tones/ RUIndex	Freq (MHz)	Chain	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	15.22	15.82
			Chain1	15.72	16.32
			Chain0+Chain1	18.49	19.09
		5785	Chain0	14.86	15.46
			Chain1	15.49	16.09
			Chain0+Chain1	18.20	18.80
		5825	Chain0	14.47	15.07
			Chain1	15.19	15.79
			Chain0+Chain1	17.86	18.46
802.11n20M	NA	5745	Chain0	15.07	15.67
			Chain1	15.63	16.23
			Chain0+Chain1	18.37	18.97
		5785	Chain0	14.91	15.51
			Chain1	15.35	15.95
			Chain0+Chain1	18.15	18.75
		5825	Chain0	14.40	15.00
			Chain1	14.96	15.56
			Chain0+Chain1	17.70	18.30
802.11n40M	NA	5755	Chain0	15.10	15.70
			Chain1	15.55	16.15
			Chain0+Chain1	18.34	18.94
		5795	Chain0	14.77	15.37
			Chain1	15.33	15.93
			Chain0+Chain1	18.07	18.67
802.11ac20M	NA	5745	Chain0	15.05	15.65
			Chain1	15.59	16.19
			Chain0+Chain1	18.34	18.94
		5785	Chain0	14.78	15.38
			Chain1	15.37	15.97
			Chain0+Chain1	18.10	18.70
		5825	Chain0	14.41	15.01
			Chain1	15.02	15.62
			Chain0+Chain1	17.74	18.34
802.11ac40M	NA	5755	Chain0	15.07	15.67

			Chain1	15.48	16.08
			Chain0+Chain1	18.29	18.89
		5795	Chain0	14.72	15.32
			Chain1	15.25	15.85
			Chain0+Chain1	18.00	18.60
		802.11ac80M	5775	Chain0	14.60
Chain1	15.06			15.66	
Chain0+Chain1	17.85			18.45	

### 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	19.37
	Chain1	19.17
5785	Chain0	19.26
	Chain1	18.98
5825	Chain0	19.25
	Chain1	19.13

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



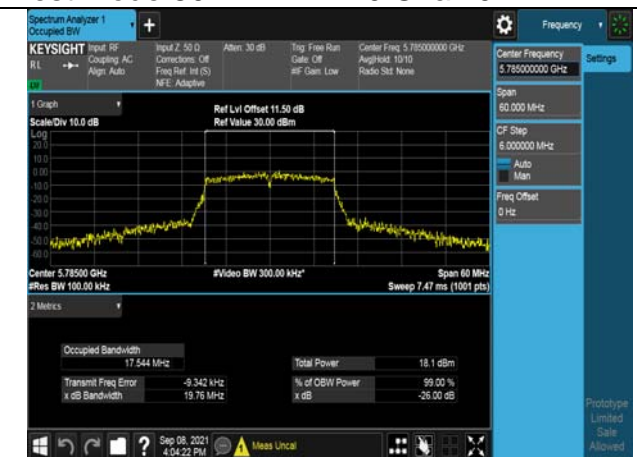
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	19.67
	Chain1	19.35
5785	Chain0	19.76
	Chain1	19.75
5825	Chain0	19.37
	Chain1	19.87

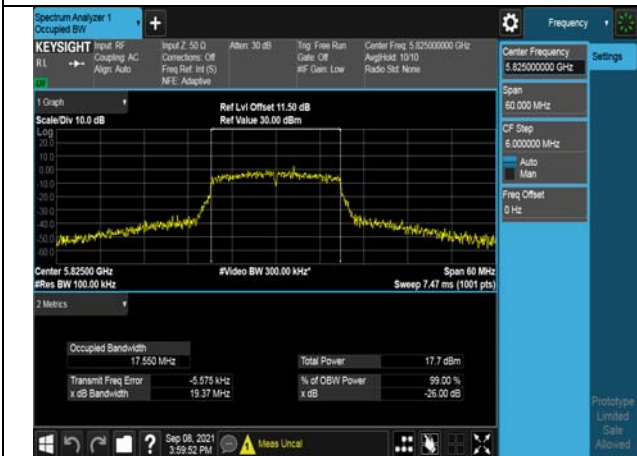
Test Mode:802. 11n HT20 Chain0



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



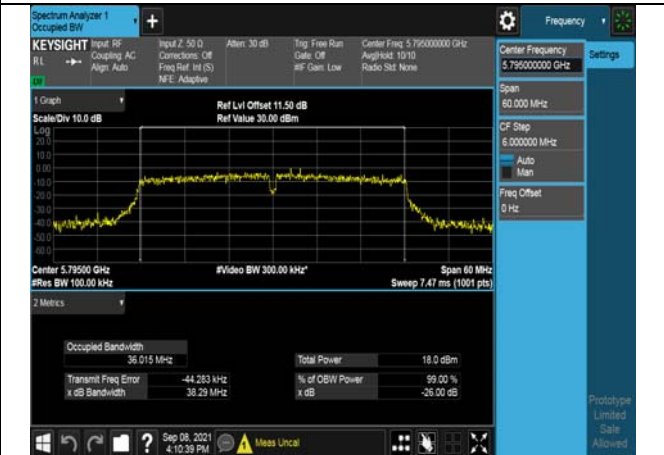
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	38.75
	Chain1	38.14
5795	Chain0	38.29
	Chain1	38.06

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	19.84
	Chain1	19.90
5785	Chain0	19.69
	Chain1	19.49
5825	Chain0	19.68
	Chain1	19.41

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	39.11
	Chain1	39.10
5795	Chain0	38.60
	Chain1	38.91

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	78.36
	Chain1	78.39

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	16.356
	Chain1	16.363
5785	Chain0	16.364
	Chain1	16.328
5825	Chain0	16.371
	Chain1	16.346

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	17.578
	Chain1	17.476
5785	Chain0	17.514
	Chain1	17.533
5825	Chain0	17.541
	Chain1	17.536

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

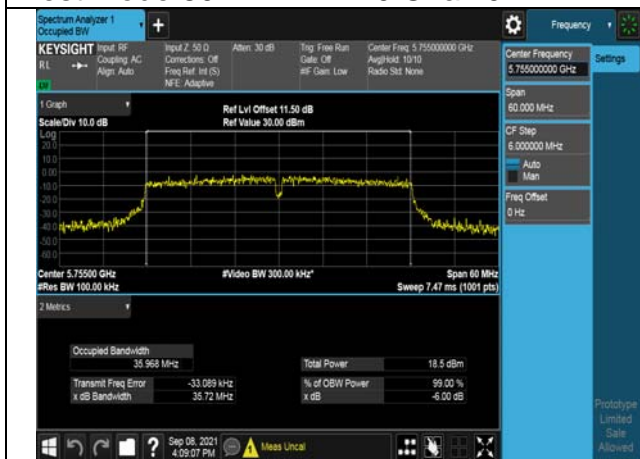




Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	35.968
	Chain1	35.923
5795	Chain0	35.930
	Chain1	35.949

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	17.547
	Chain1	17.562
5785	Chain0	17.546
	Chain1	17.565
5825	Chain0	17.574
	Chain1	17.570

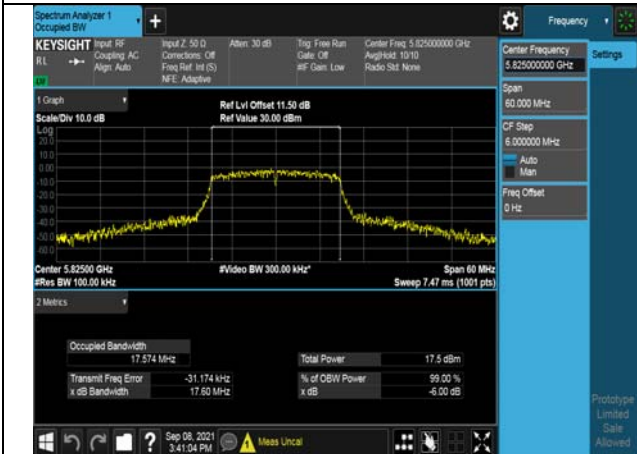
Test Mode:802. 11ac VHT20 Chain0



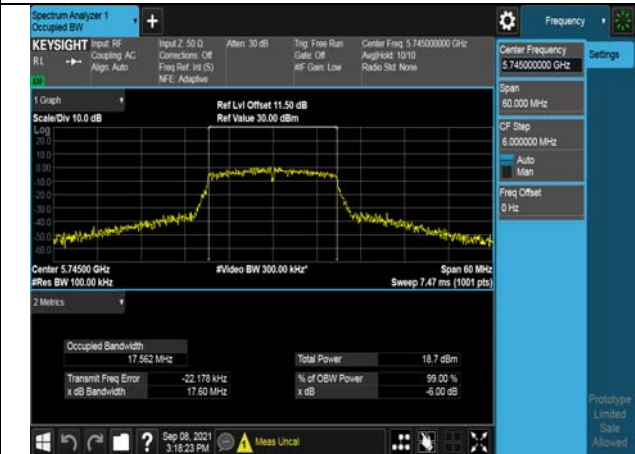
Test Mode:802. 11ac VHT20 Chain0



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	35.877
	Chain1	35.951
5795	Chain0	35.997
	Chain1	35.885

Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1

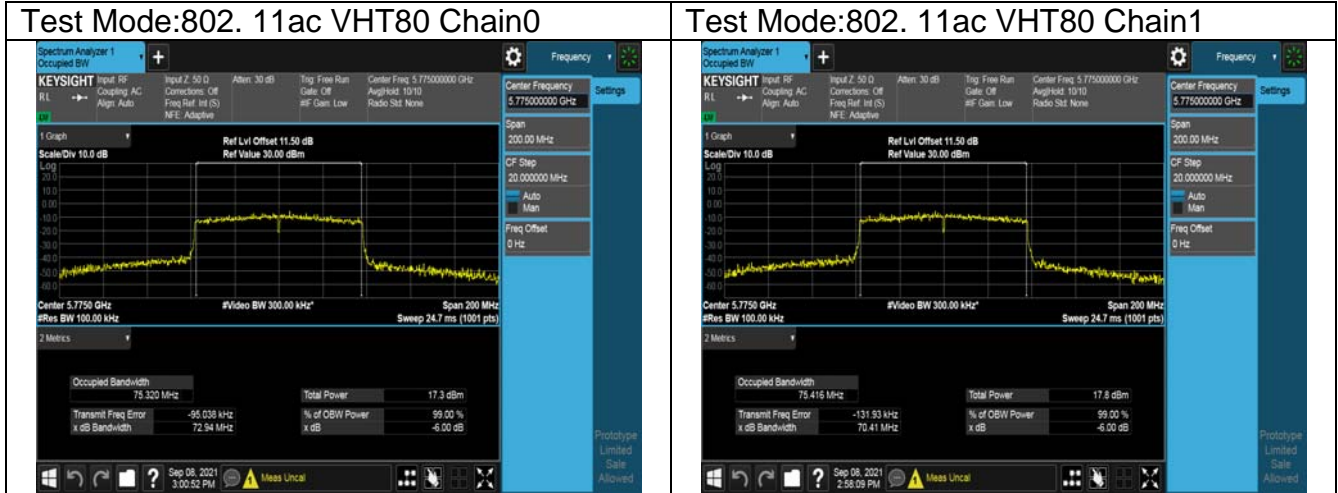


Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5775	Chain0	75.320
	Chain1	75.416



**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	13.35
	Chain1	16.35
5785	Chain0	14.03
	Chain1	15.73
5825	Chain0	15.09
	Chain1	16.38

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	14.82
	Chain1	17.23
5785	Chain0	14.08
	Chain1	16.88
5825	Chain0	17.62
	Chain1	13.69



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



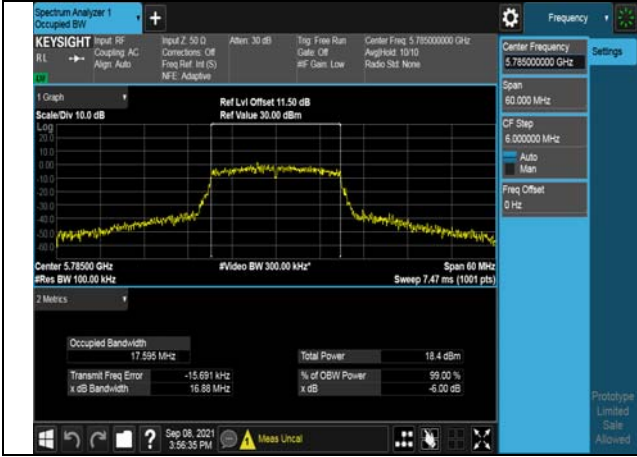
Test Mode:802. 11n HT20 Chain0



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	35.10
	Chain1	31.59
5795	Chain0	35.96
	Chain1	34.39

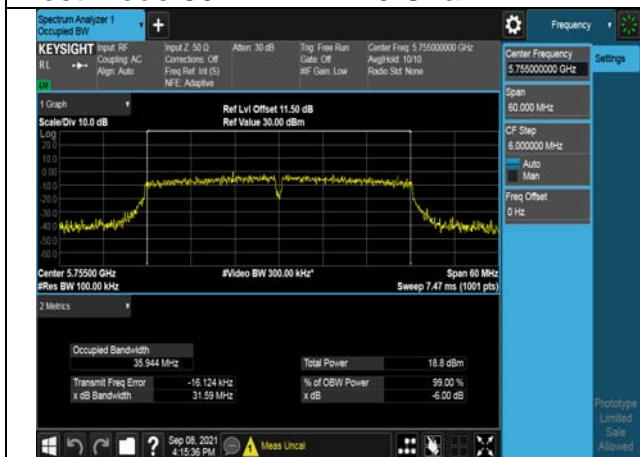
Test Mode:802. 11n HT40 Chain0



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	16.31
	Chain1	17.60
5785	Chain0	15.37
	Chain1	17.42
5825	Chain0	17.50
	Chain1	17.54

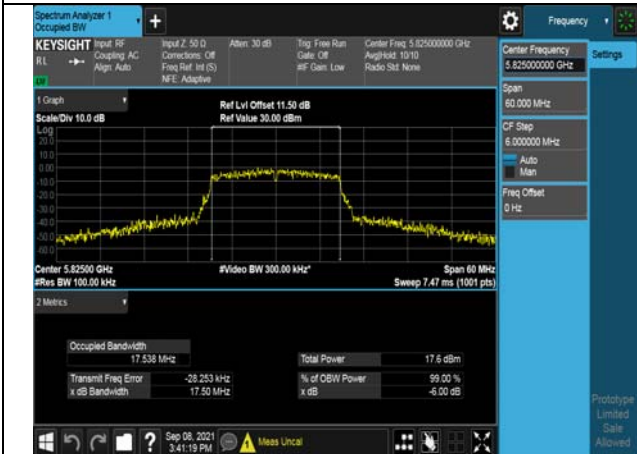
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



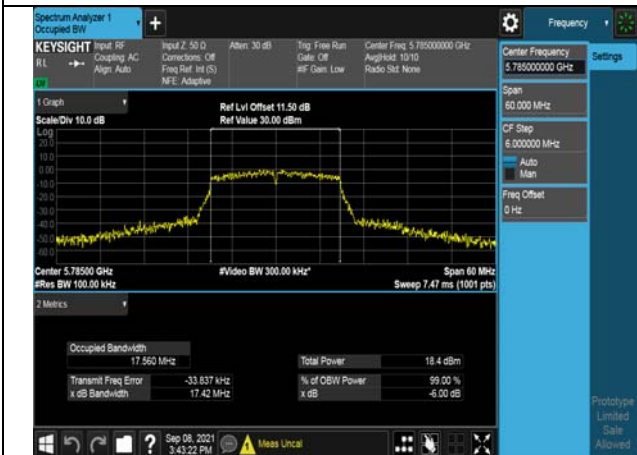
Test Mode:802. 11ac VHT20 Chain0



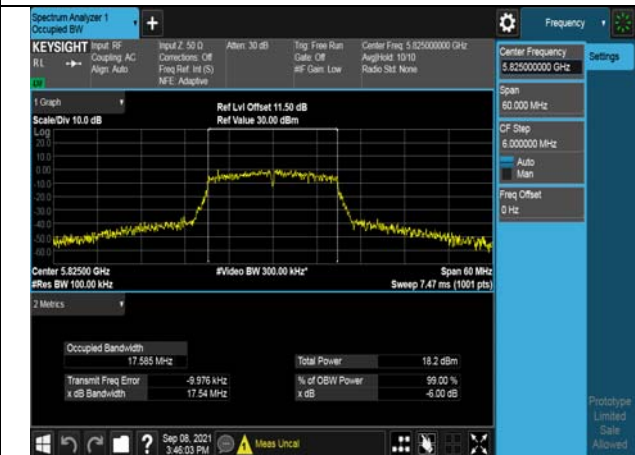
Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1



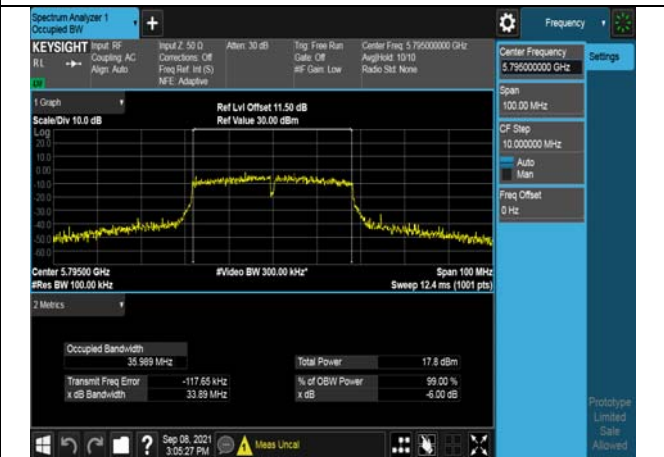
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	35.30
	Chain1	35.08
5795	Chain0	33.89
	Chain1	33.85

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	74.03
	Chain1	76.09

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	Chain0	3.102
		Chain1	3.394
		Chain0+Chain1	6.261
5785		Chain0	2.738
		Chain1	3.344
		Chain0+Chain1	6.062
5825		Chain0	2.347
		Chain1	3.197
		Chain0+Chain1	5.803

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

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

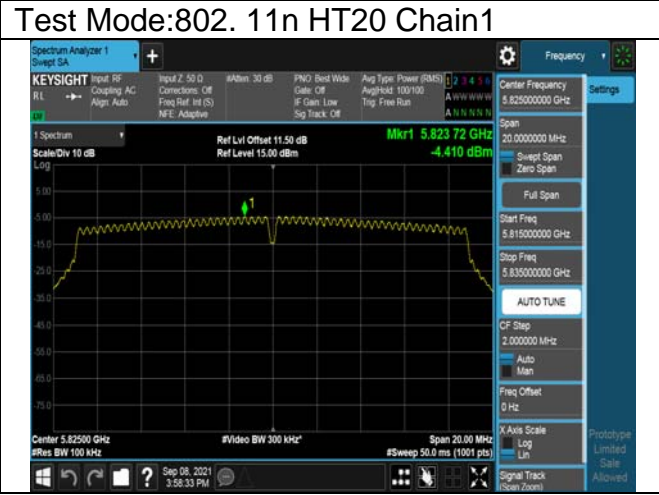
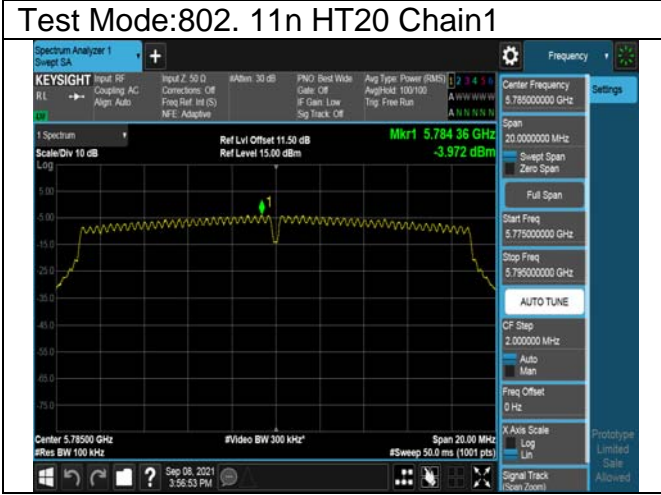
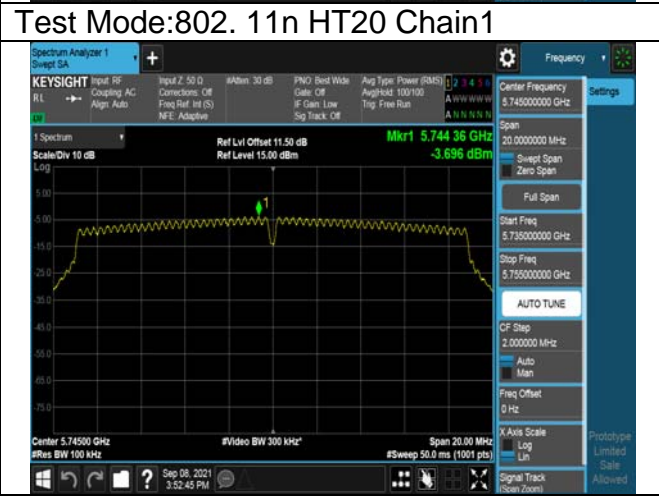
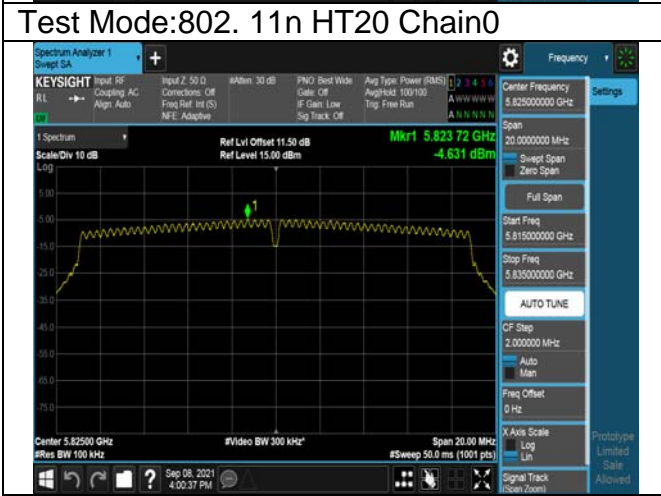
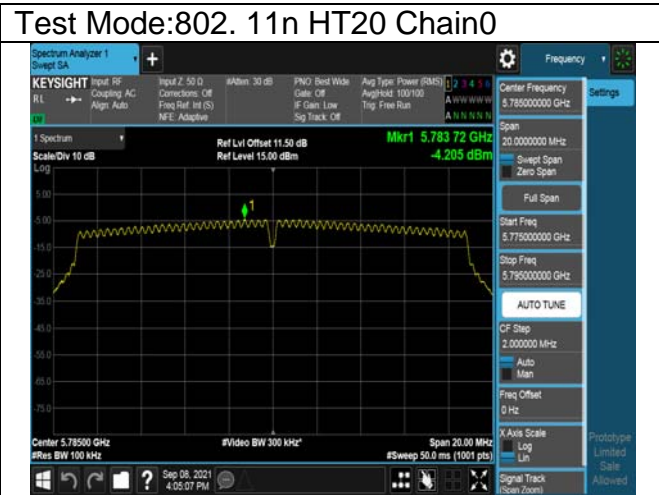
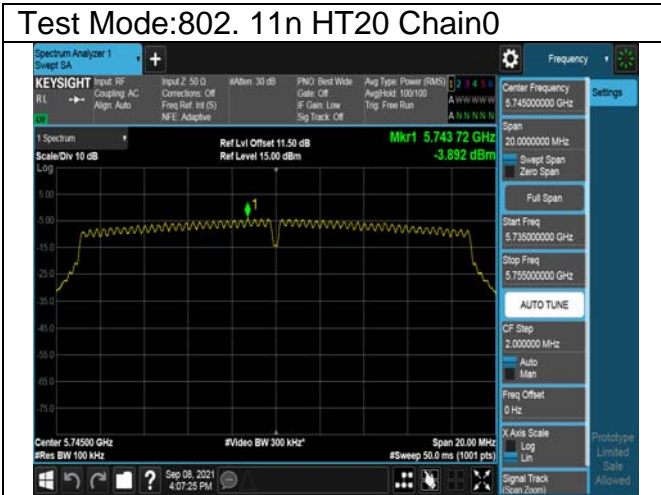




Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5745	0	Chain0	3.098
		Chain1	3.294
		Chain0+Chain1	6.207
5785		Chain0	2.785
		Chain1	3.018
		Chain0+Chain1	5.913
5825		Chain0	2.359
		Chain1	2.580
		Chain0+Chain1	5.481

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

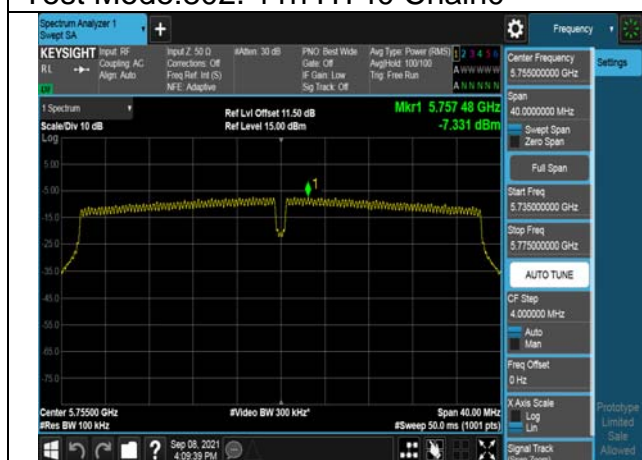


Test Mode:802. 11n HT40

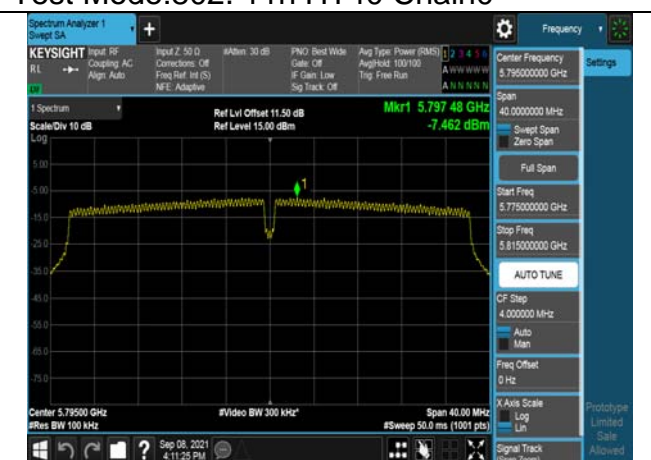
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5755	0	Chain0	-0.341
		Chain1	0.370
		Chain0+Chain1	3.039
5795		Chain0	-0.472
		Chain1	0.207
		Chain0+Chain1	2.891

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

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	Chain0	2.762
		Chain1	3.174
		Chain0+Chain1	5.983
5785		Chain0	2.440
		Chain1	3.001
		Chain0+Chain1	5.740
5825		Chain0	2.149
		Chain1	2.617
		Chain0+Chain1	5.400

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

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	Chain0	-0.179
		Chain1	0.238
		Chain0+Chain1	3.045
5795		Chain0	-0.563
		Chain1	0.197
		Chain0+Chain1	2.844

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

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	0.15	Chain0	-2.813
		Chain1	-2.603
		Chain0+Chain1	0.304

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

