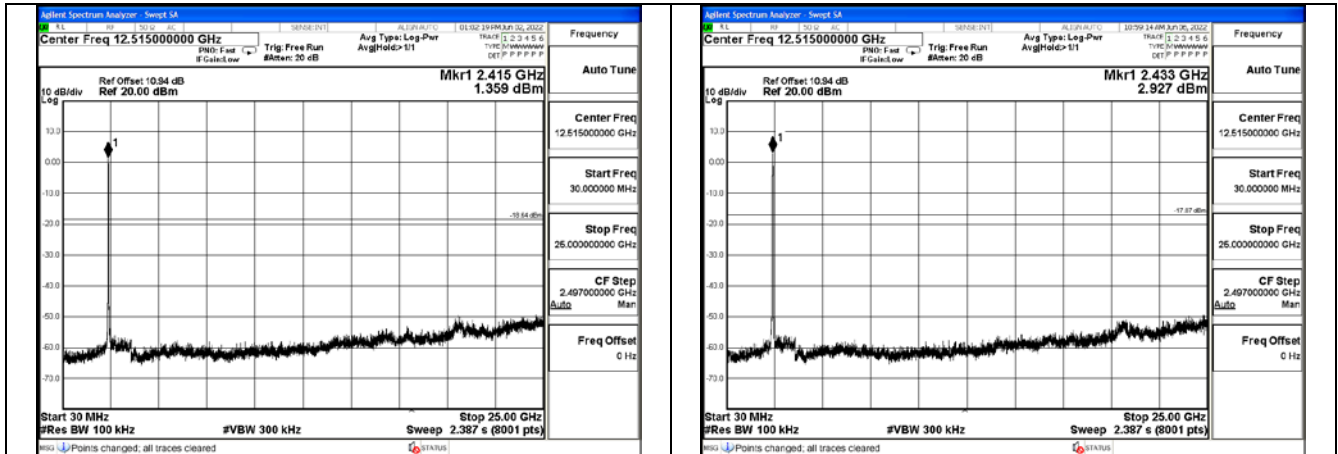
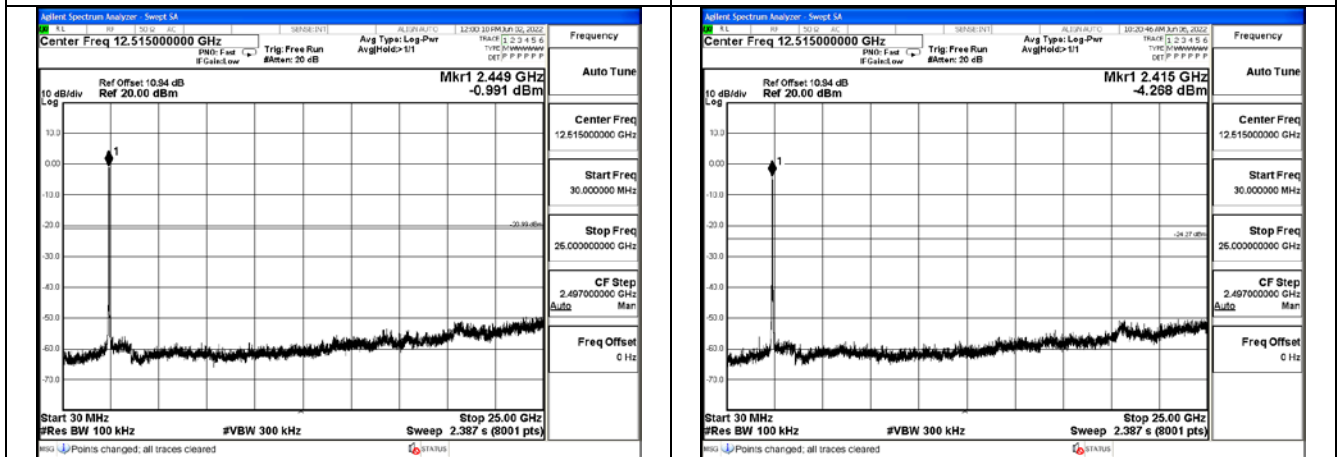


Test Mode: 802.11n HT40



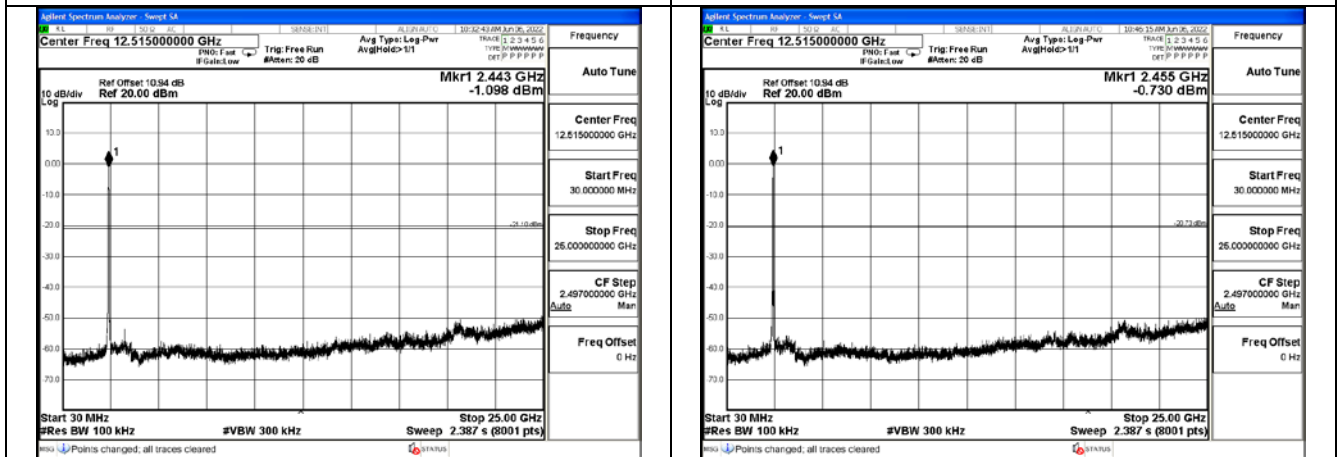
Test Mode:802.11n HT40 2422MHz Chain0

Test Mode:802.11n HT40 2437MHz Chain0



Test Mode:802.11n HT40 2452MHz Chain0

Test Mode:802.11n HT40 2422MHz Chain1

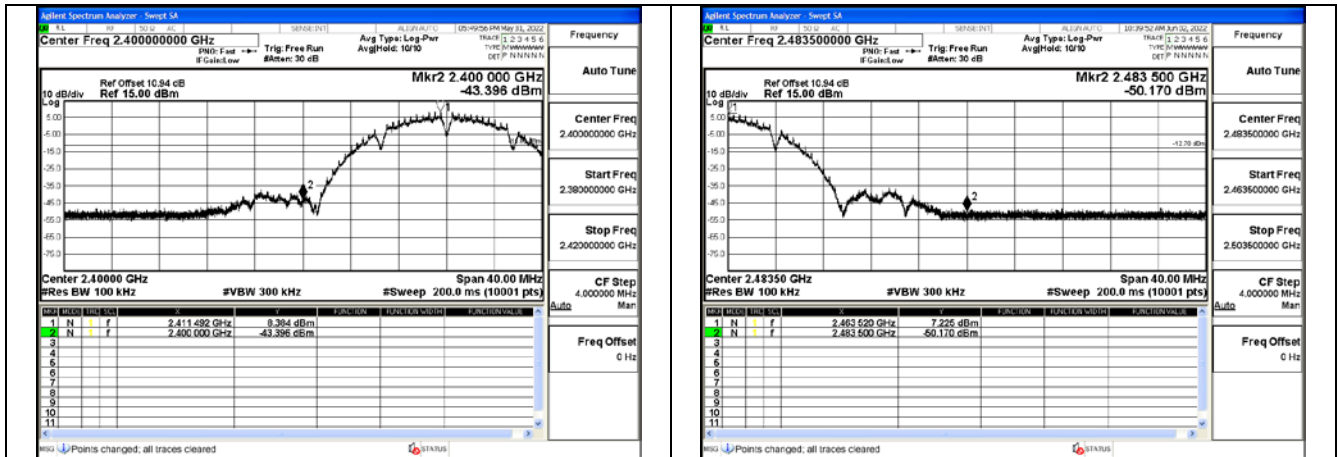


Test Mode:802.11n HT40 2437MHz Chain1

Test Mode:802.11n HT40 2452MHz Chain1

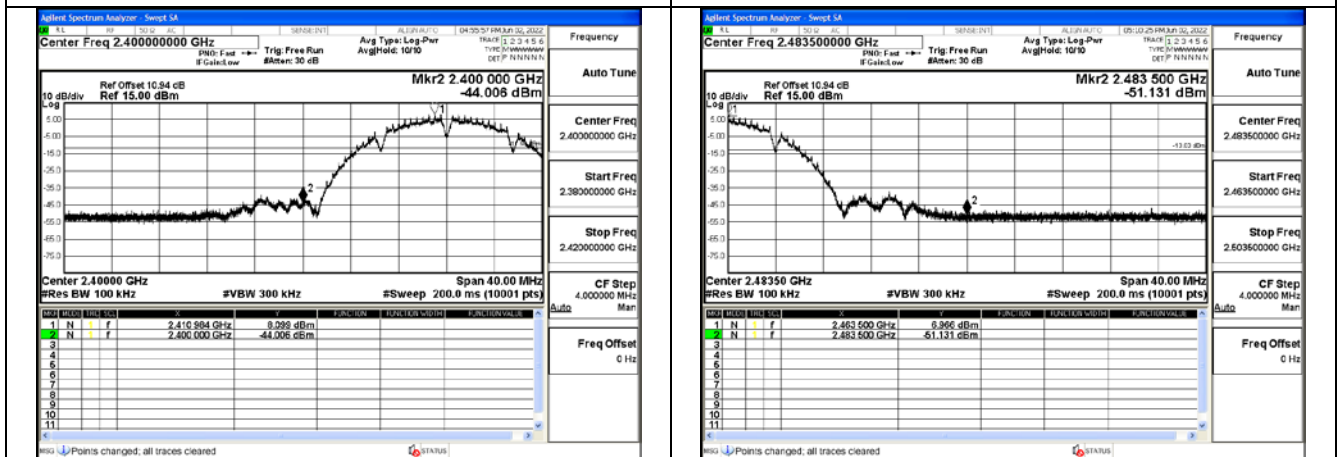
Band edge measurement

Test Mode: 802.11b



Test Mode:802.11b 2412MHz Chain0

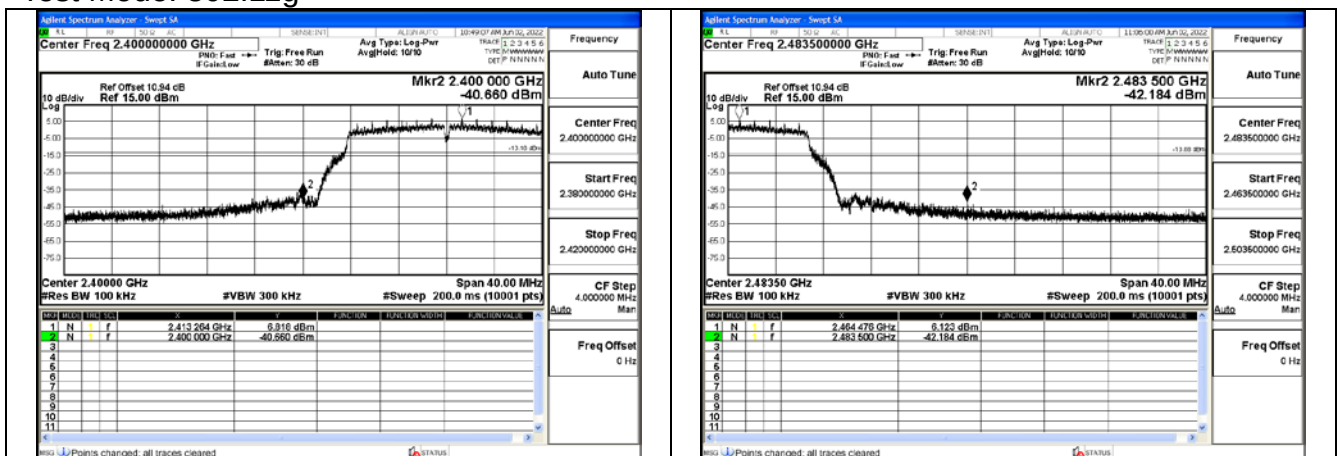
Test Mode:802.11b 2462MHz Chain0



Test Mode:802.11b 2412MHz Chain1

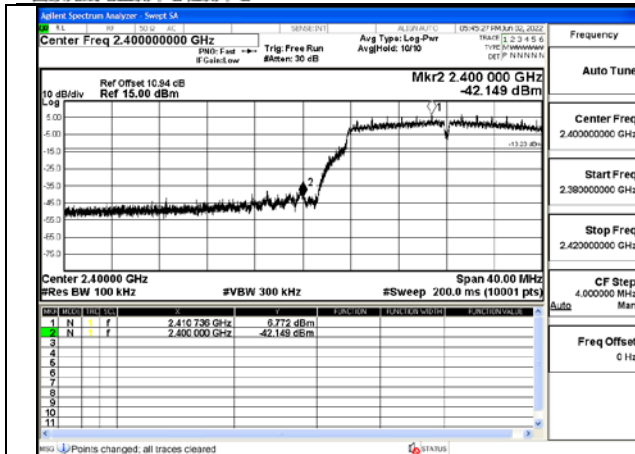
Test Mode:802.11b 2462MHz Chain1

Test Mode: 802.11g

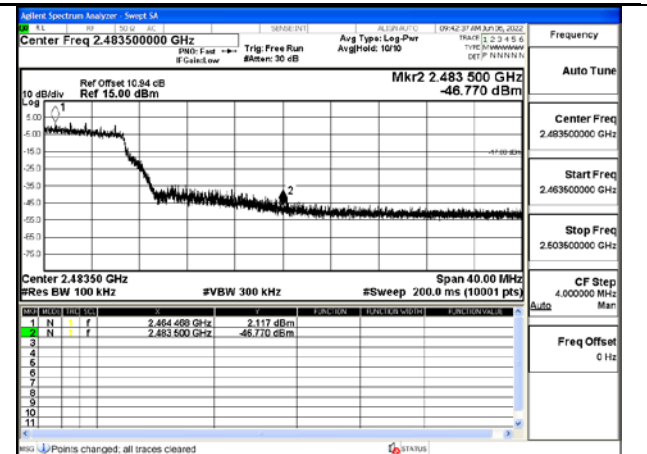


Test Mode:802.11g 2412MHz Chain0

Test Mode:802.11g 2462MHz Chain0

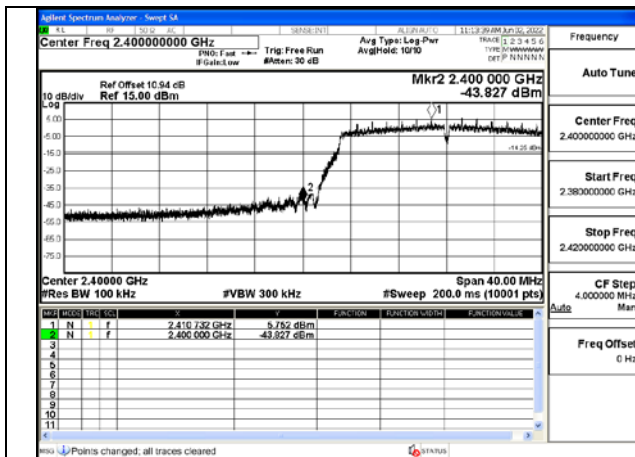


Test Mode:802.11g 2412MHz Chain1

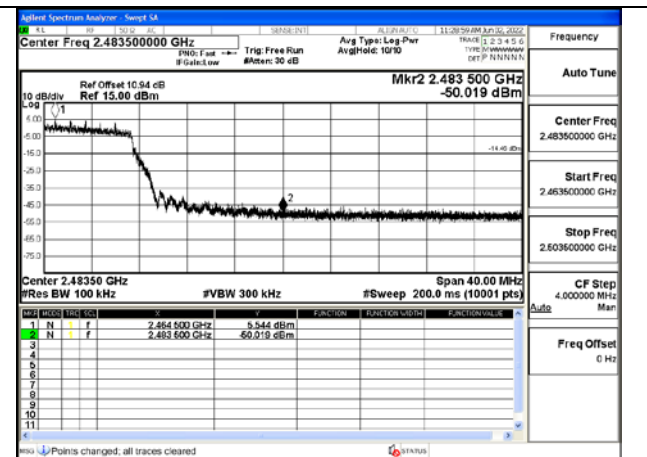


Test Mode:802.11g 2462MHz Chain1

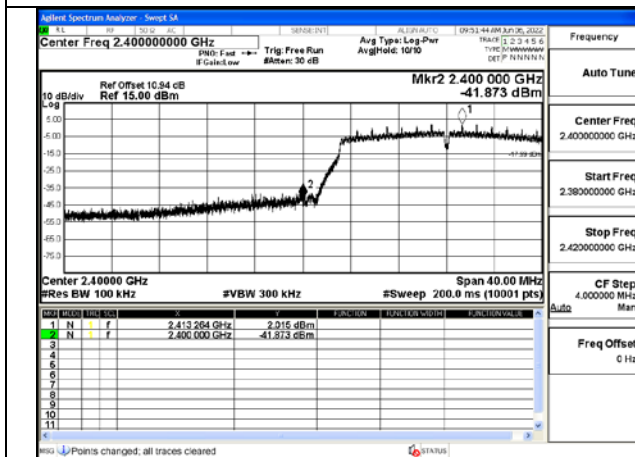
Test Mode: 802.11n HT20



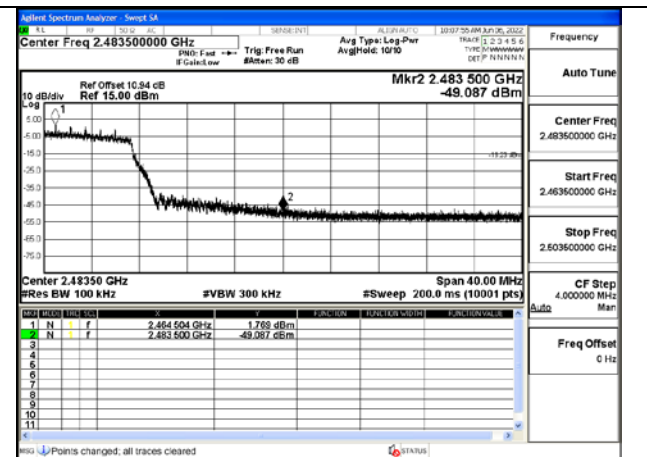
Test Mode:802.11n HT20 2412MHz Chain0



Test Mode:802.11n HT20 2462MHz Chain0

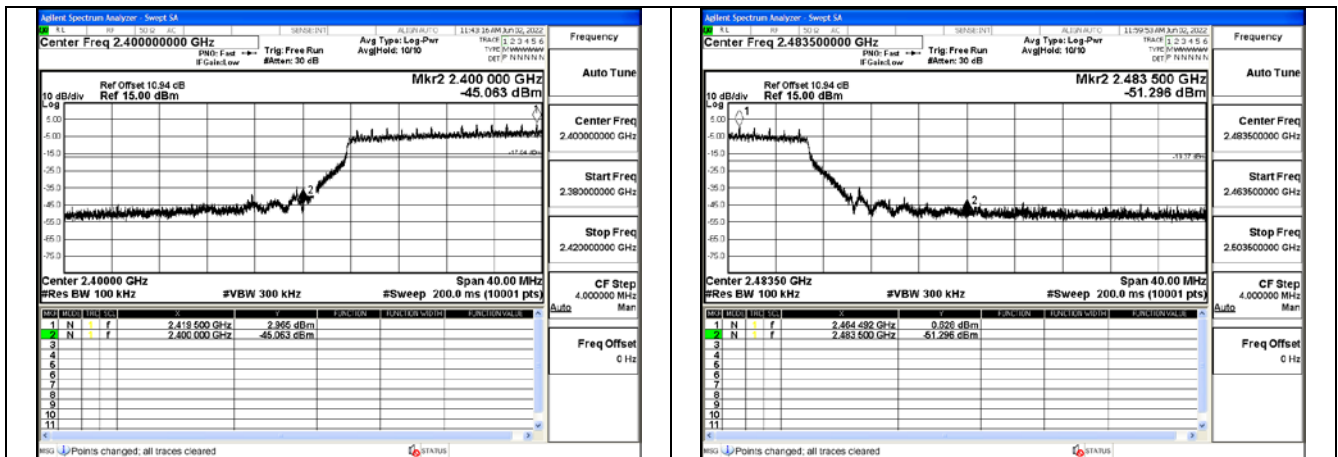


Test Mode:802.11n HT20 2412MHz Chain1



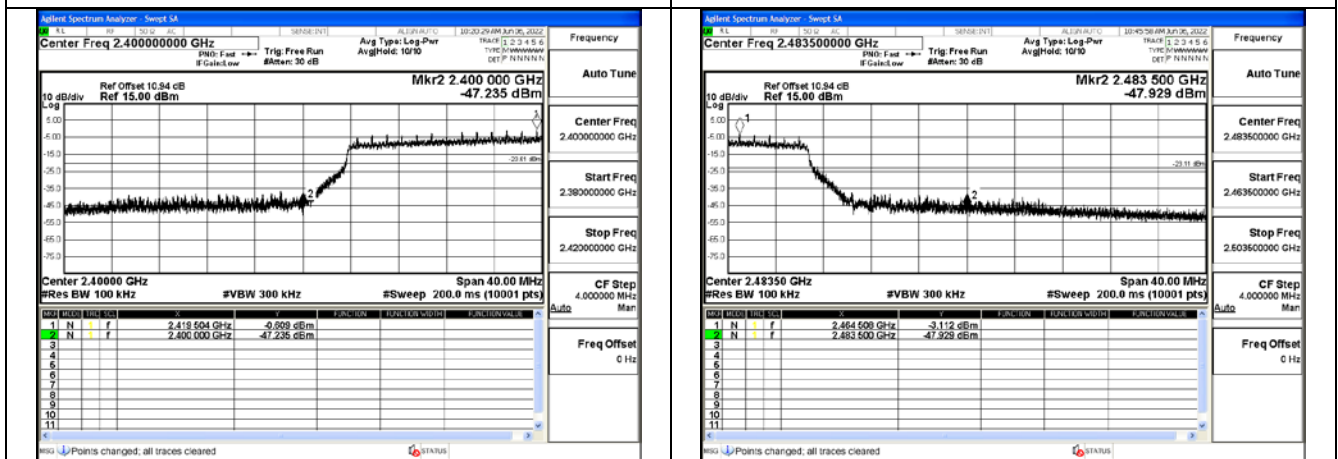
Test Mode:802.11n HT20 2462MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 2422MHz Chain0

Test Mode:802.11n HT40 2452MHz Chain0



Test Mode:802.11n HT40 2422MHz Chain1

Test Mode:802.11n HT40 2452MHz Chain1

8822:

Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1.0dB

Duty Cycle

Modulation Type	Frequency (MHz)	Antenna	Duty Cycle	Correction Factor(dB)
802.11b	2412	Chain0	97.75%	0.10
802.11b	2412	Chain1	97.80%	0.10
802.11g	2412	Chain0	87.34%	0.59
802.11g	2412	Chain1	87.53%	0.58
802.11n HT20	2412	Chain0	87.36%	0.59
802.11n HT20	2412	Chain1	87.59%	0.58
802.11n HT40	2422	Chain0	79.18%	1.01
802.11n HT40	2422	Chain1	79.71%	0.98

Note: Correction Factor=10*log (1/Duty Cycle)

Conducted power

Test Mode	Tones/ RU Index	Freq(MHz)	Antenna	Peak power output (dBm)	Average power output (dBm)
802.11b	NA	2412	Chain0	21.18	17.71
802.11b	NA	2412	Chain1	20.92	17.47
802.11b	NA	2437	Chain0	21.05	17.59
802.11b	NA	2437	Chain1	20.03	16.61
802.11b	NA	2462	Chain0	21.44	18.01
802.11b	NA	2462	Chain1	19.94	16.48
802.11g	NA	2412	Chain0	26.60	17.34
802.11g	NA	2412	Chain1	20.43	11.03
802.11g	NA	2437	Chain0	26.37	17.14
802.11g	NA	2437	Chain1	19.85	10.45
802.11g	NA	2462	Chain0	26.35	17.08
802.11g	NA	2462	Chain1	19.68	10.24
802.11n HT20	NA	2412	Chain0	26.53	17.24
802.11n HT20	NA	2412	Chain1	20.28	10.91
802.11n HT20	NA	2412	MIMO	27.454	18.15
802.11n HT20	NA	2437	Chain0	26.24	16.95
802.11n HT20	NA	2437	Chain1	19.61	10.27
802.11n HT20	NA	2437	MIMO	27.094	17.79
802.11n HT20	NA	2462	Chain0	26.27	16.96
802.11n HT20	NA	2462	Chain1	19.44	10.08
802.11n HT20	NA	2462	MIMO	27.089	17.77
802.11n HT40	NA	2422	Chain0	26.76	16.33
802.11n HT40	NA	2422	Chain1	20.69	10.26
802.11n HT40	NA	2422	MIMO	27.719	17.29
802.11n HT40	NA	2437	Chain0	26.58	16.13
802.11n HT40	NA	2437	Chain1	20.26	9.82
802.11n HT40	NA	2437	MIMO	27.491	17.04
802.11n HT40	NA	2452	Chain0	25.69	15.24

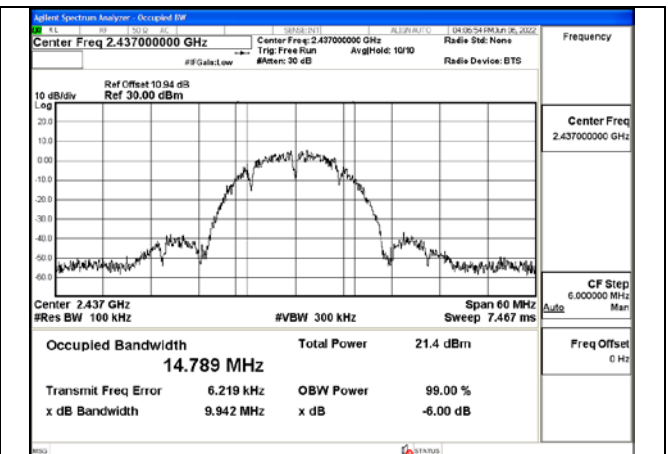
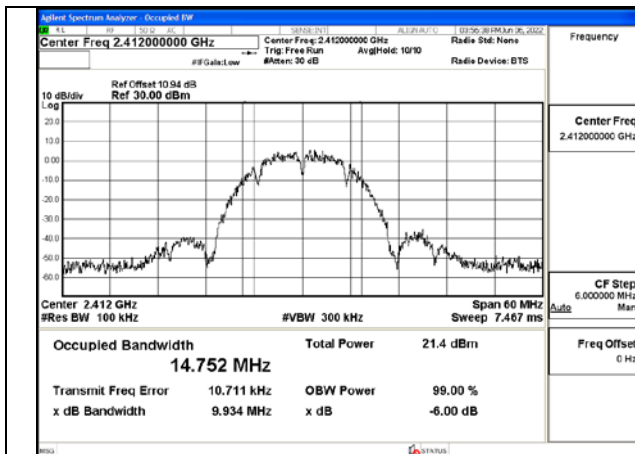
802.11n HT40	NA	2452	Chain1	20.99	10.55
802.11n HT40	NA	2452	MIMO	26.957	16.51

6dB Bandwidth

Test Mode	Antenna	6 dB bandwidth(MHz)		
		Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	9.93	9.94	9.86
802.11b	Chain1	9.84	12.03	9.87
802.11g	Chain0	16.36	16.32	16.33
802.11g	Chain1	16.05	16.46	16.42
802.11n HT20	Chain0	17.41	17.63	16.93
802.11n HT20	Chain1	17.57	17.59	17.60

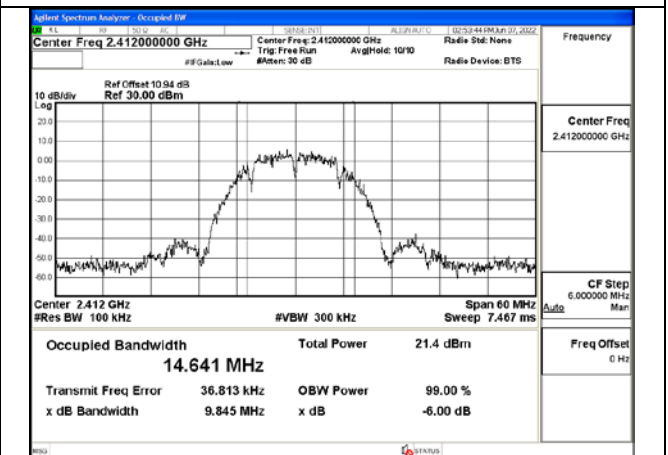
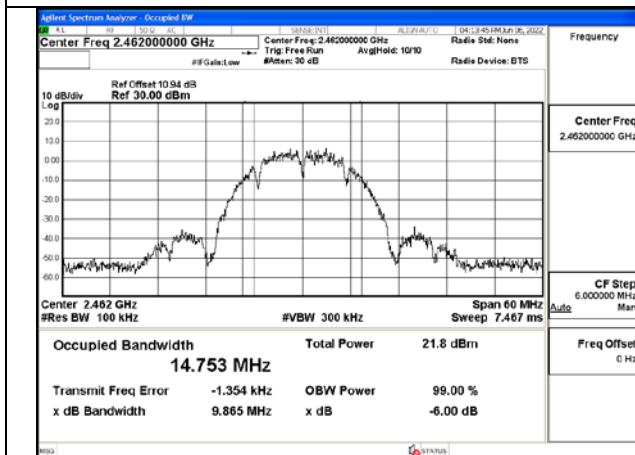
Test Mode	Antenna	6 dB bandwidth(MHz)		
		Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	33.89	36.16	30.10
802.11n HT40	Chain1	31.34	34.19	35.56

Test Mode: 802.11b



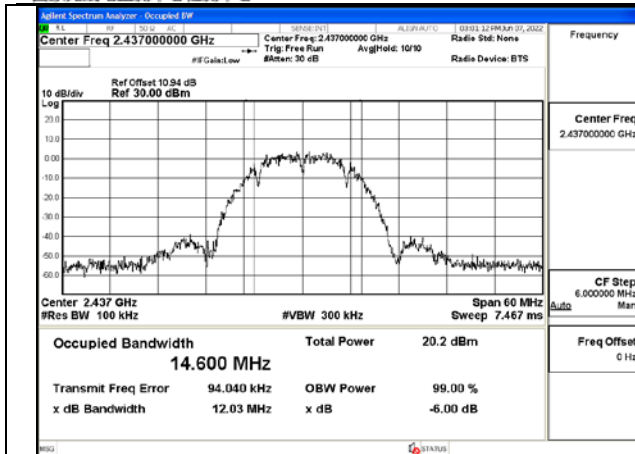
Test Mode:802.11b 2412MHz Chain0

Test Mode:802.11b 2437MHz Chain0

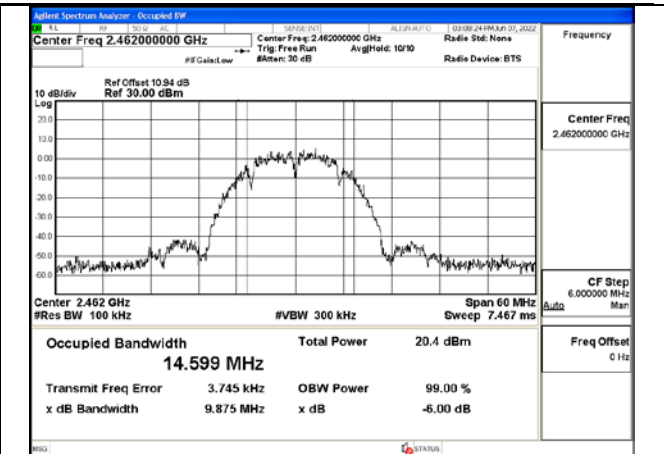


Test Mode:802.11b 2462MHz Chain0

Test Mode:802.11b 2412MHz Chain1

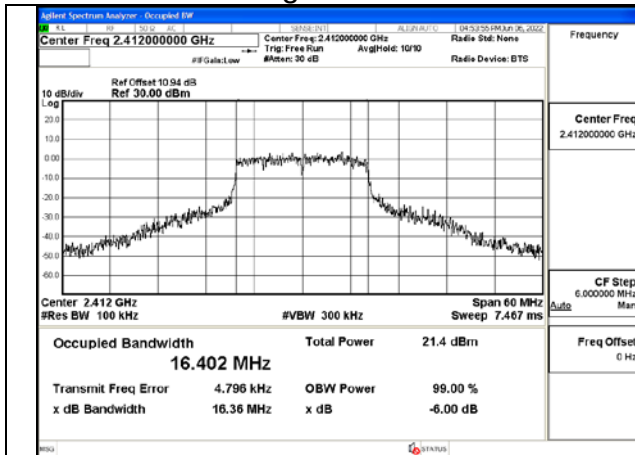


Test Mode:802.11b 2437MHz Chain1

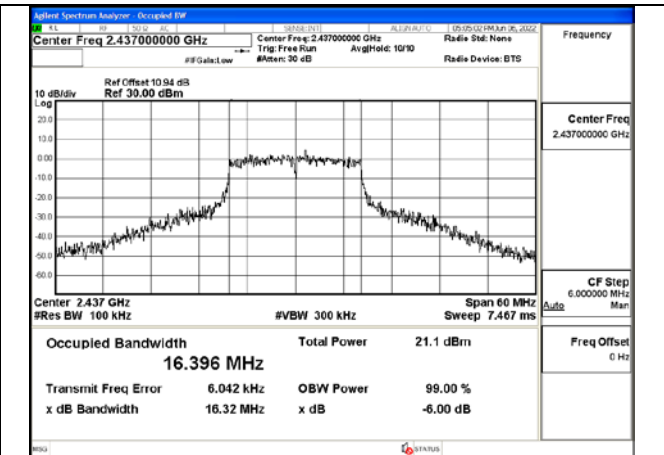


Test Mode:802.11b 2462MHz Chain1

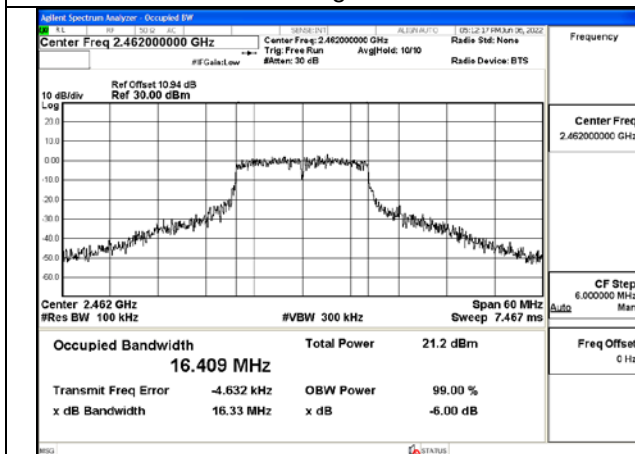
Test Mode: 802.11g



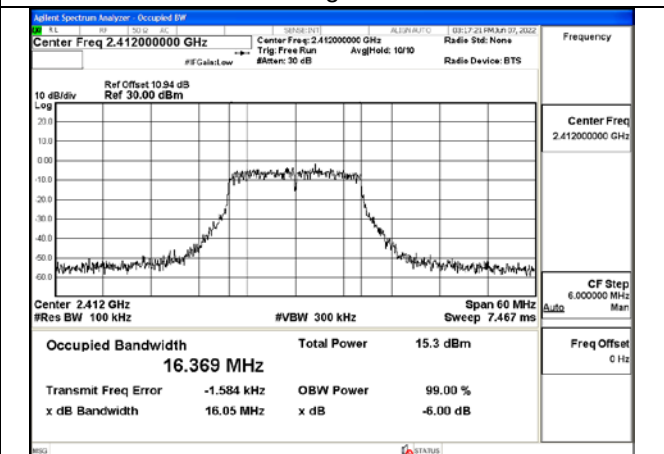
Test Mode:802.11g 2412MHz Chain0



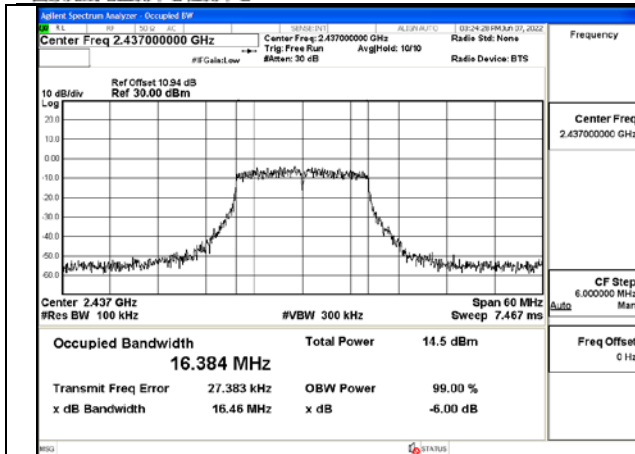
Test Mode:802.11g 2437MHz Chain0



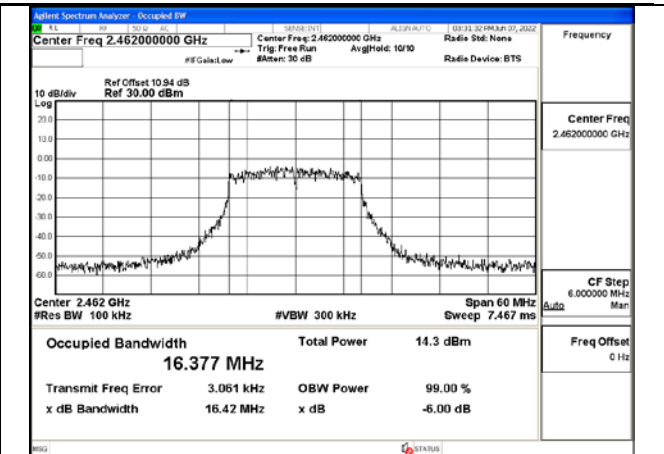
Test Mode:802.11g 2462MHz Chain0



Test Mode:802.11g 2412MHz Chain1

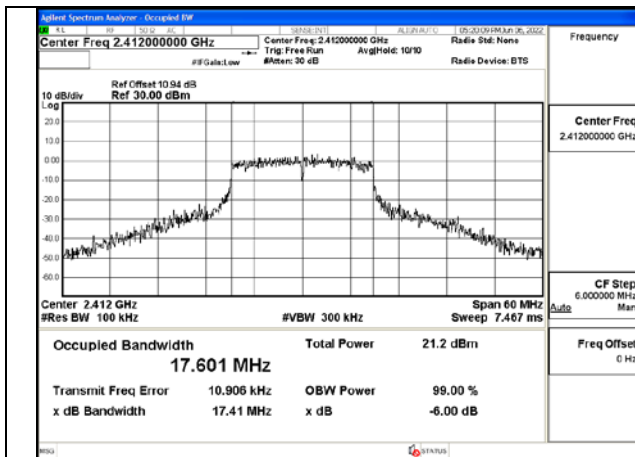


Test Mode:802.11g 2437MHz Chain1

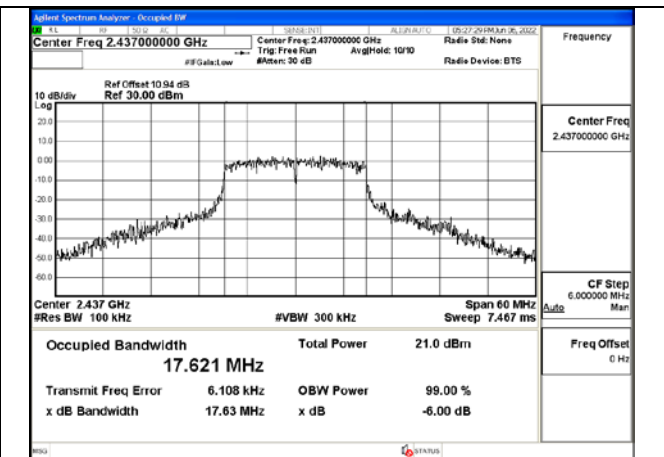


Test Mode:802.11g 2462MHz Chain1

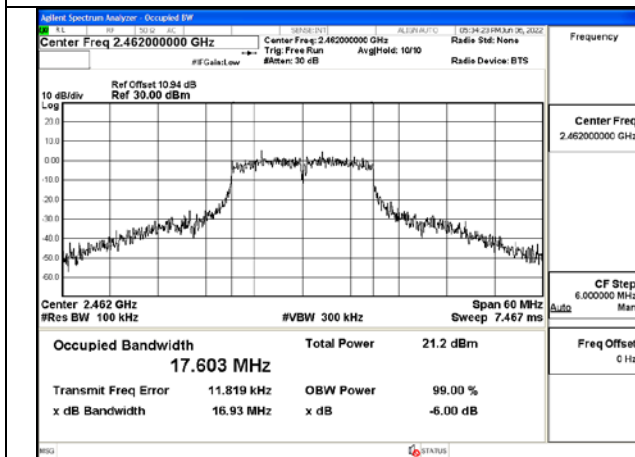
Test Mode: 802.11n HT20



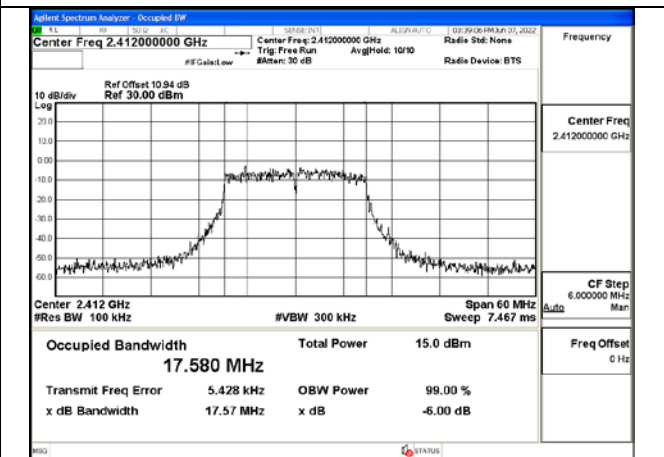
Test Mode:802.11n HT20 2412MHz Chain0



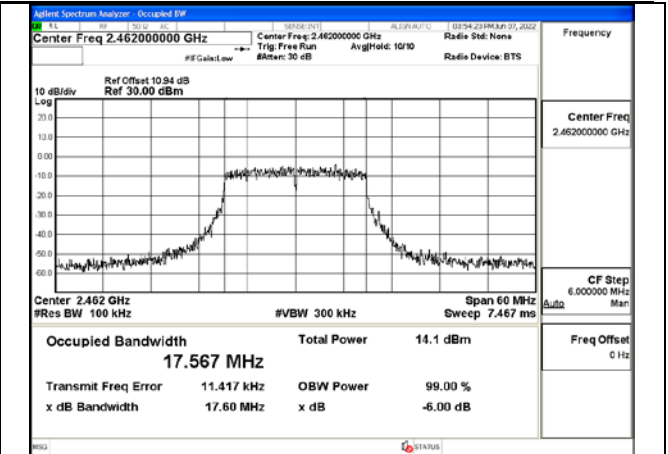
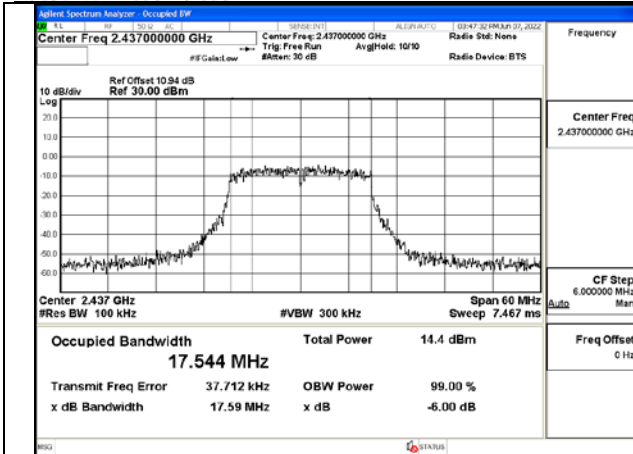
Test Mode:802.11n HT20 2437MHz Chain0



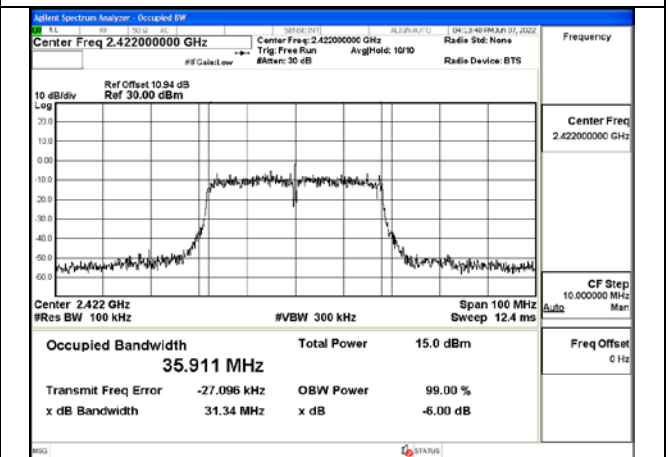
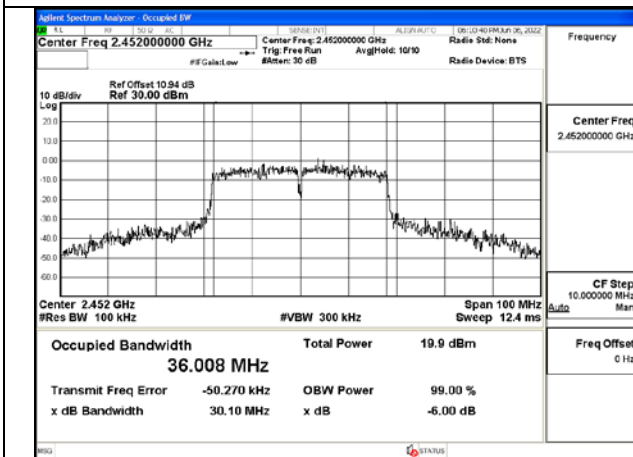
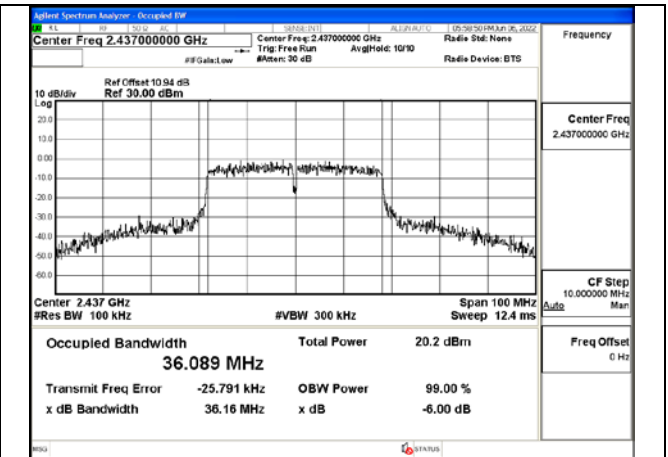
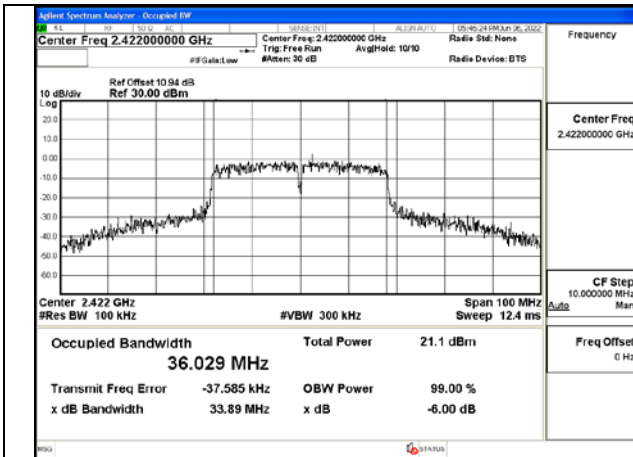
Test Mode:802.11n HT20 2462MHz Chain0

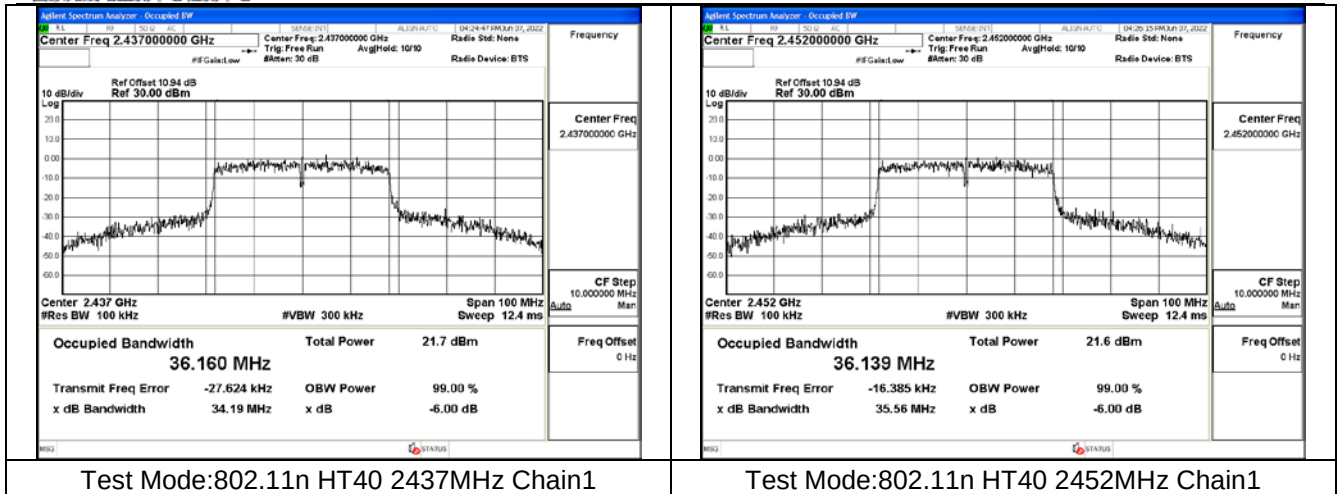


Test Mode:802.11n HT20 2412MHz Chain1



Test Mode: 802.11n HT40



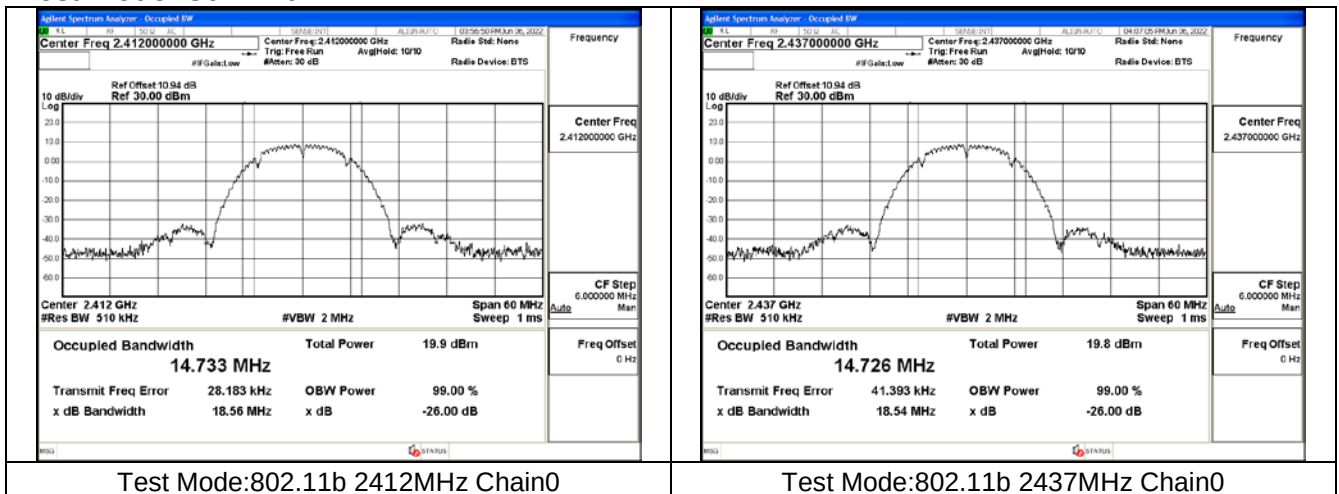


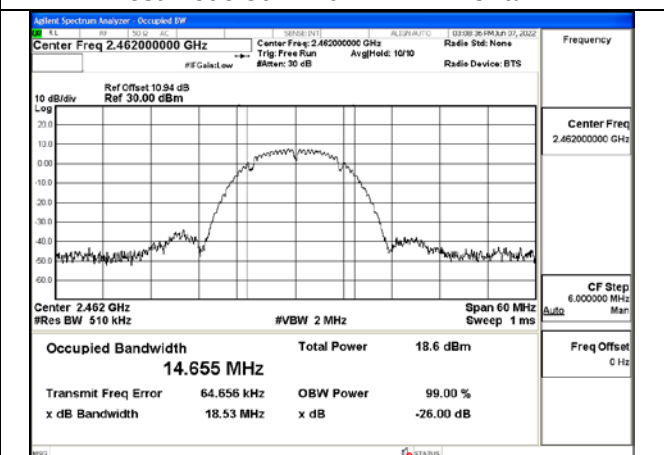
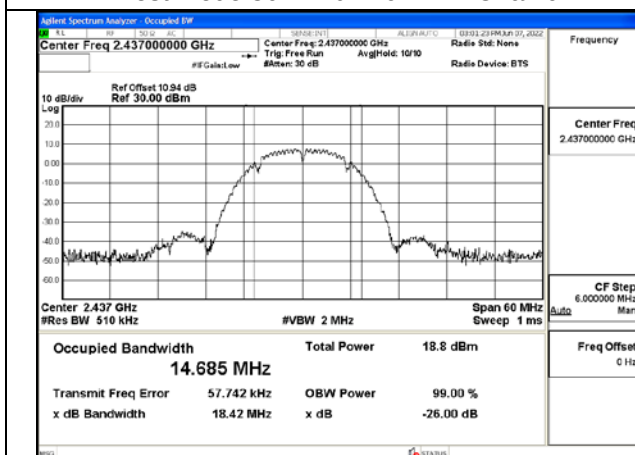
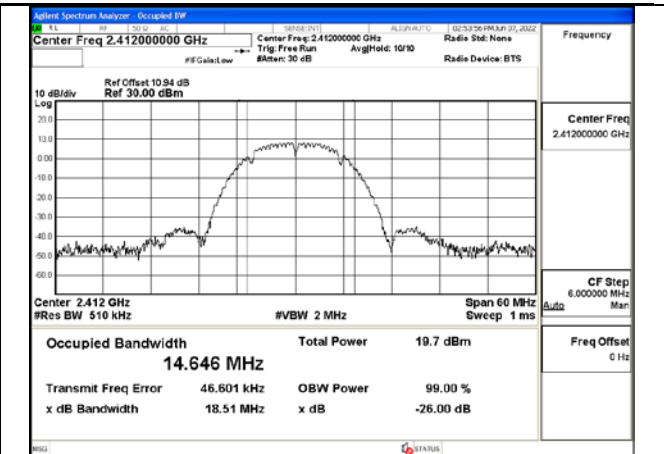
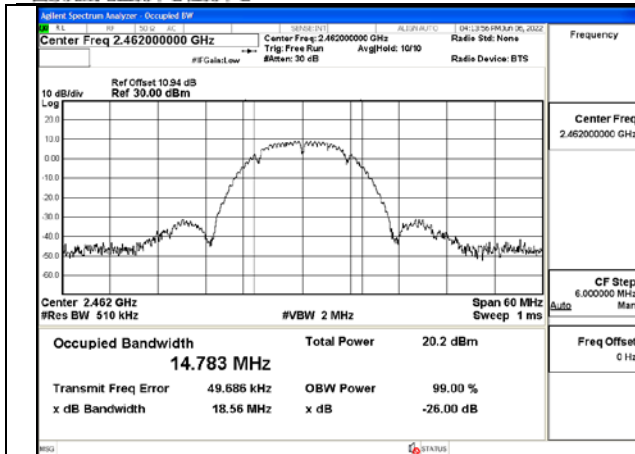
99% Bandwidth

Test Mode	Antenna	99% bandwidth(MHz)		
		Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	14.733	14.726	14.783
802.11b	Chain1	14.646	14.685	14.655
802.11g	Chain0	16.717	16.715	16.681
802.11g	Chain1	16.667	16.533	16.626
802.11n HT20	Chain0	17.855	17.882	17.859
802.11n HT20	Chain1	17.660	17.674	17.736

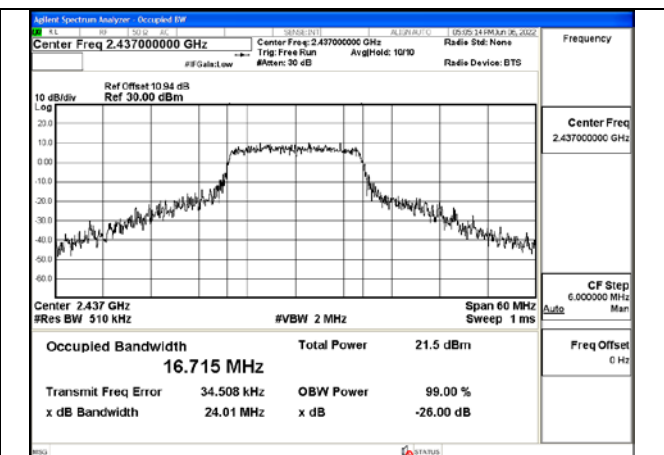
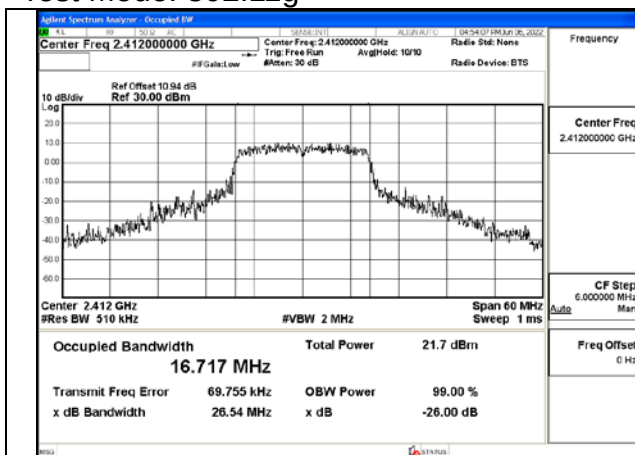
Test Mode	Antenna	99% bandwidth(MHz)		
		Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	36.082	36.024	36.103
802.11n HT40	Chain1	35.906	36.135	36.084

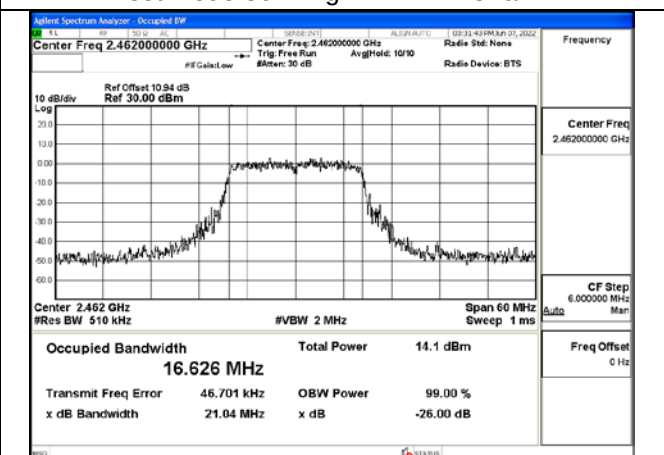
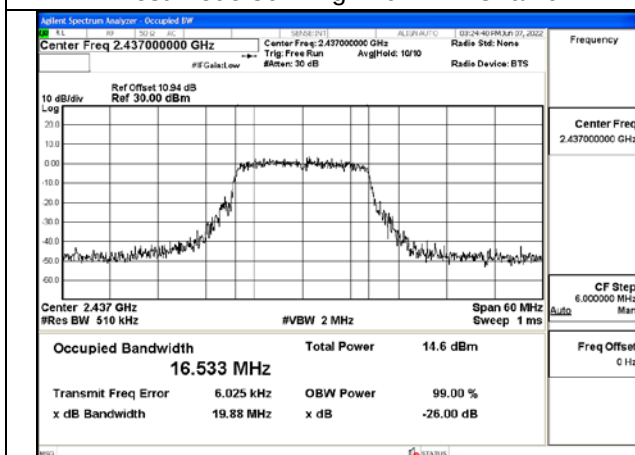
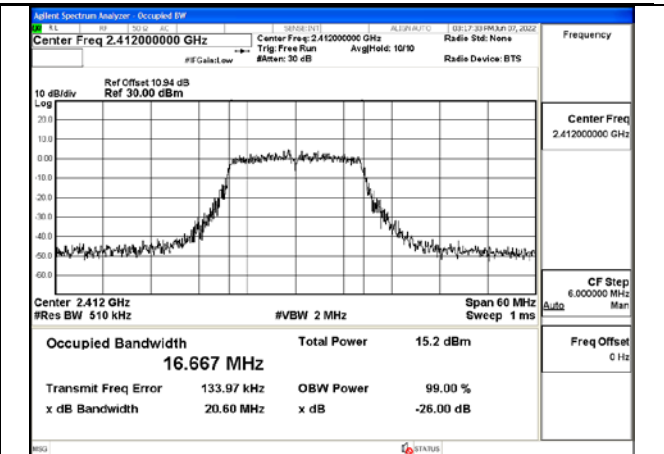
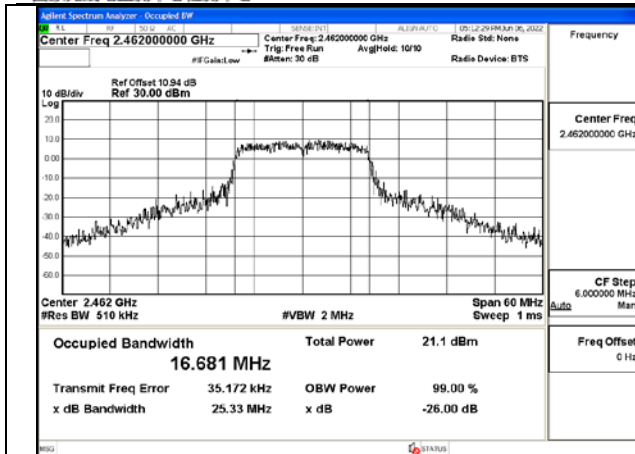
Test Mode: 802.11b



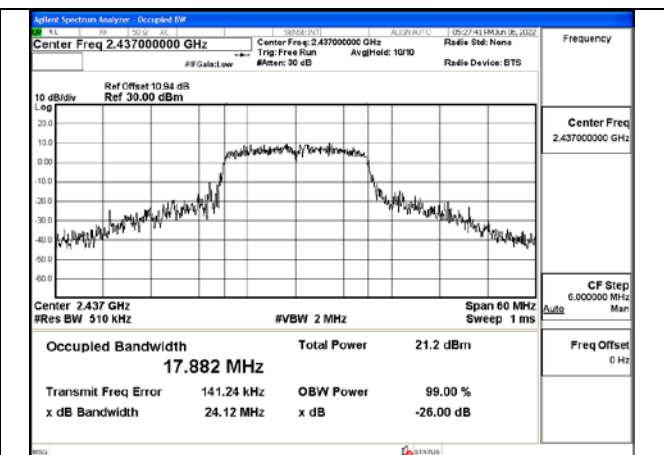
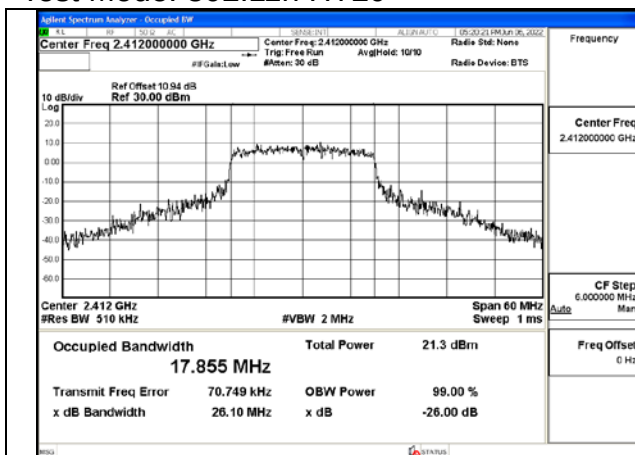


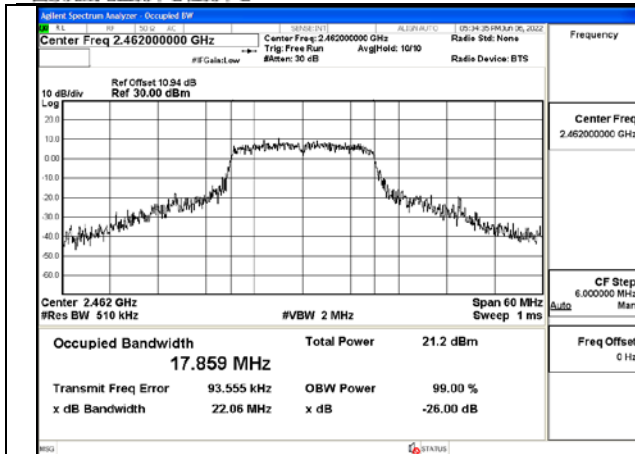
Test Mode: 802.11g



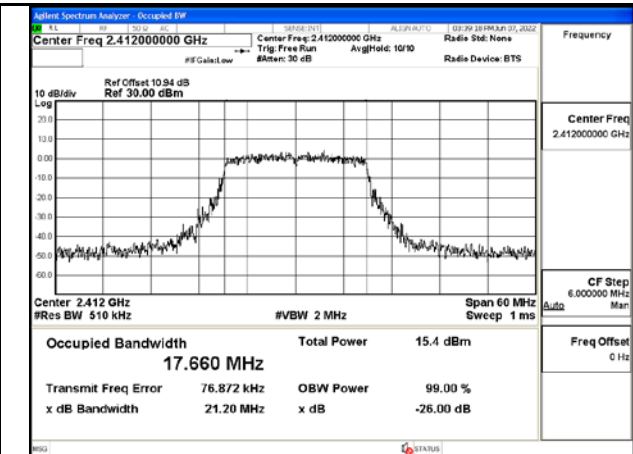


Test Mode: 802.11n HT20

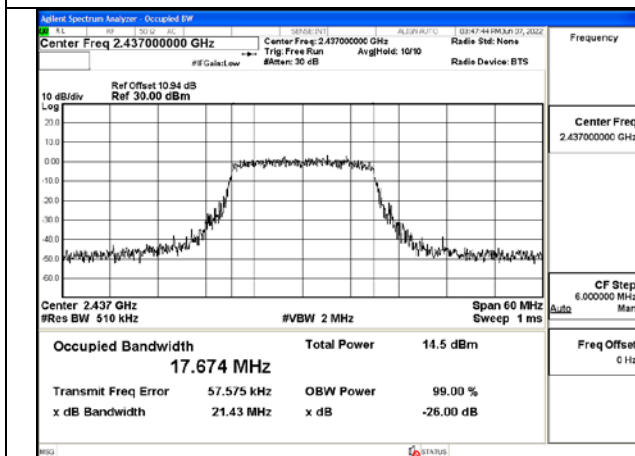




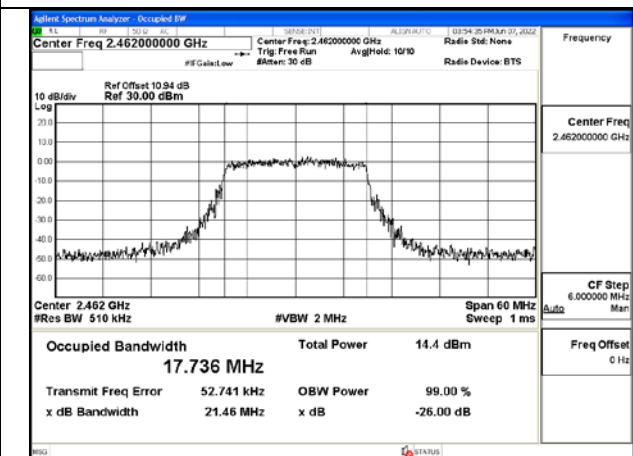
Test Mode:802.11n HT20 2462MHz Chain0



Test Mode:802.11n HT20 2412MHz Chain1

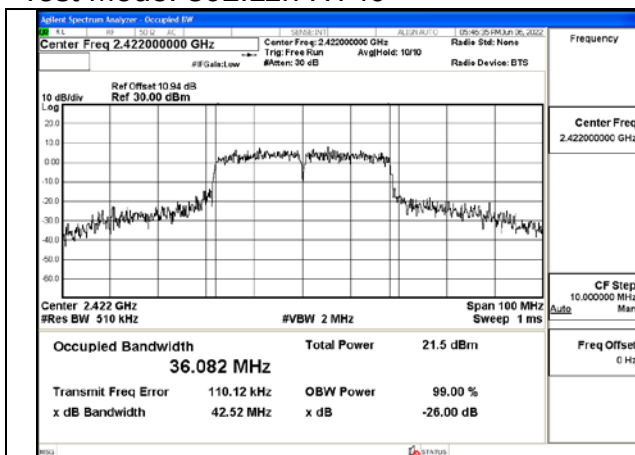


Test Mode:802.11n HT20 2437MHz Chain1

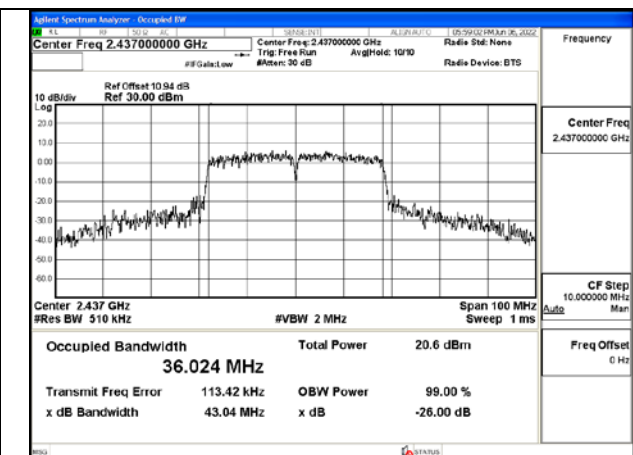


Test Mode:802.11n HT20 2462MHz Chain1

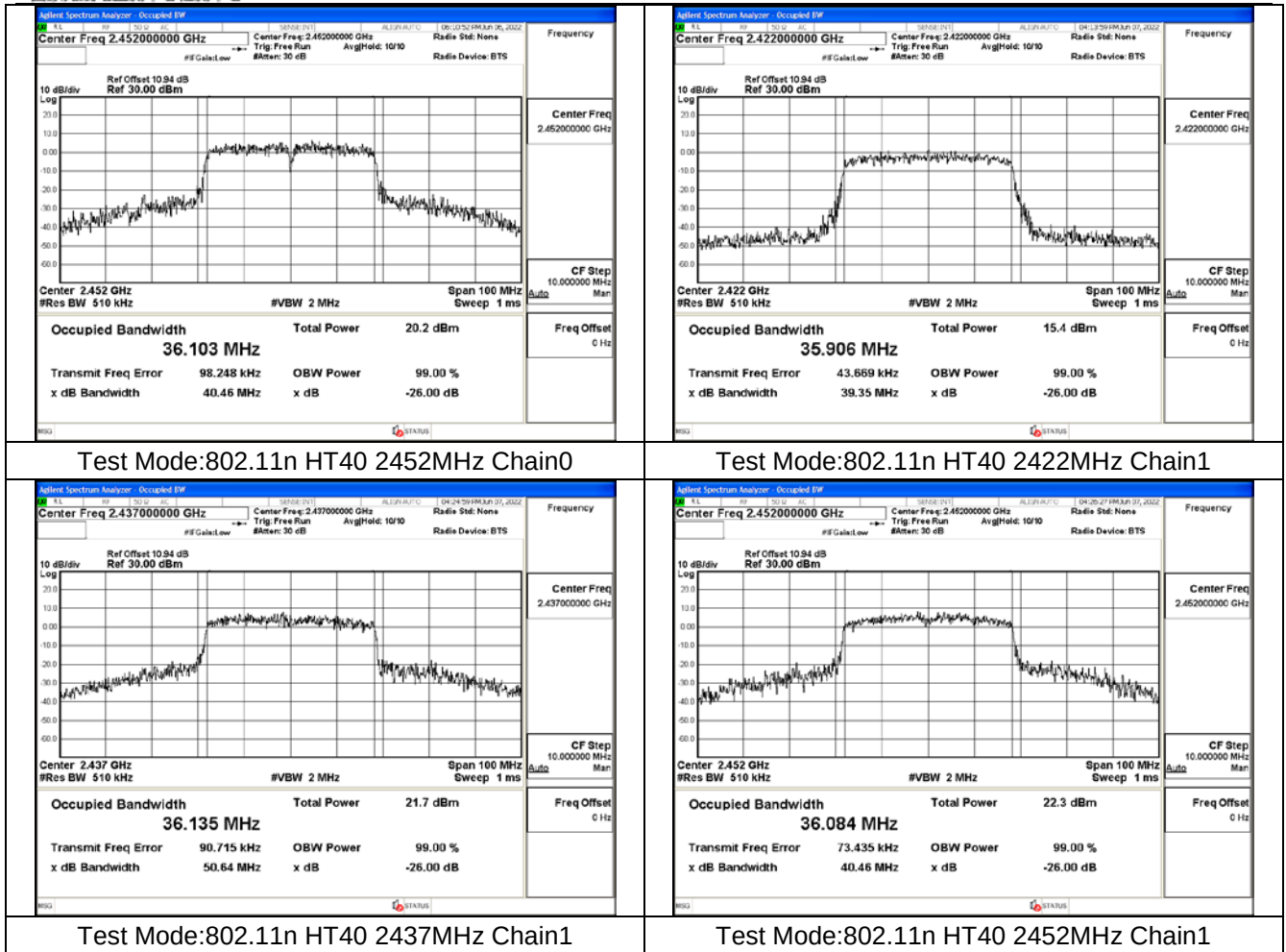
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 2422MHz Chain0



Test Mode:802.11n HT40 2437MHz Chain0

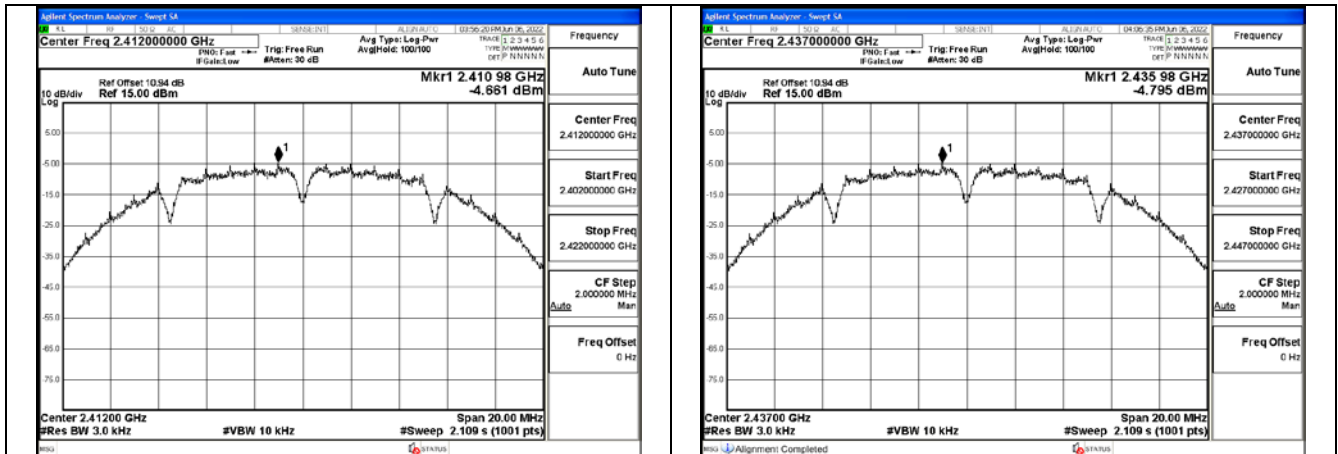


Transmitter Power Spectral Density

Test Mode	Antenna	Power Density(dBm)		
		Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	-4.661	-4.795	-4.424
802.11b	Chain1	-4.932	-5.777	-5.929
802.11g	Chain0	-6.694	-6.881	-6.971
802.11g	Chain1	-13.009	-13.598	-13.806
802.11n HT20	Chain0	-6.390	-6.699	-6.664
802.11n HT20	Chain1	-12.660	-13.246	-13.445
802.11n HT20	MIMO	-5.470	-5.830	-5.837

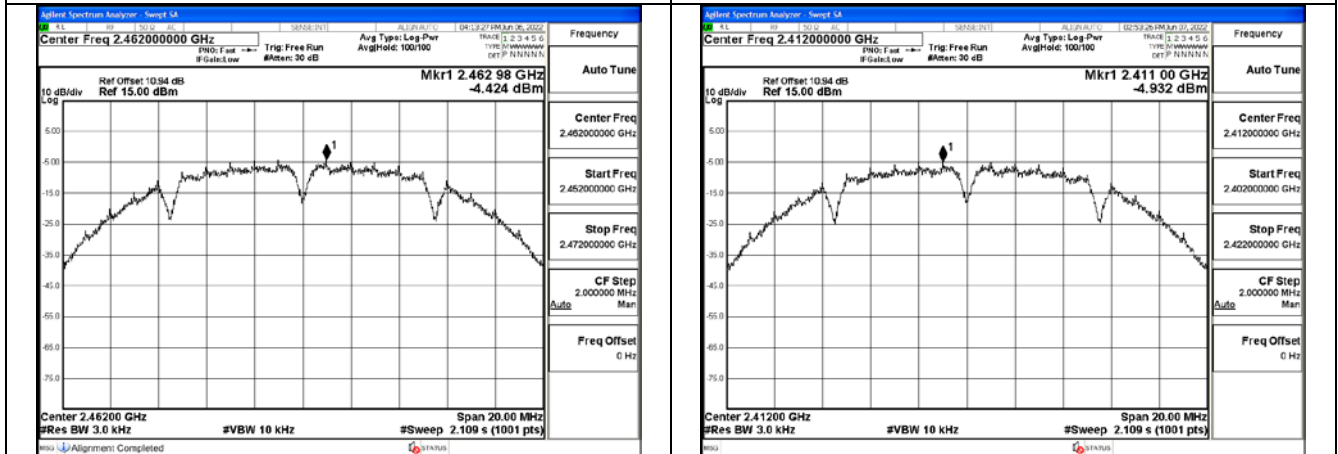
Test Mode	Antenna	Power Density(dBm)		
		Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	-8.463	-8.714	-9.585
802.11n HT40	Chain1	1.203	0.723	0.527
802.11n HT40	MIMO	1.648	1.191	0.931

Test Mode: 802.11b



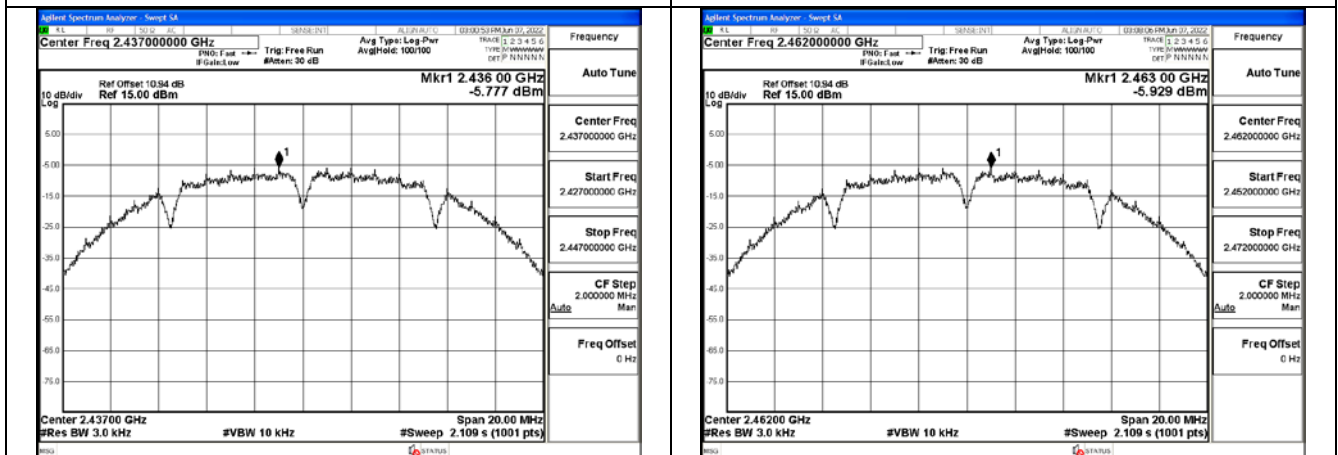
Test Mode:802.11b 2412MHz Chain0

Test Mode:802.11b 2437MHz Chain0



Test Mode:802.11b 2462MHz Chain0

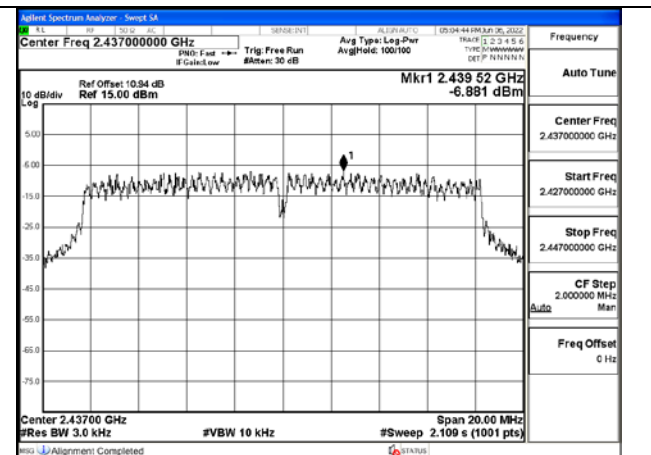
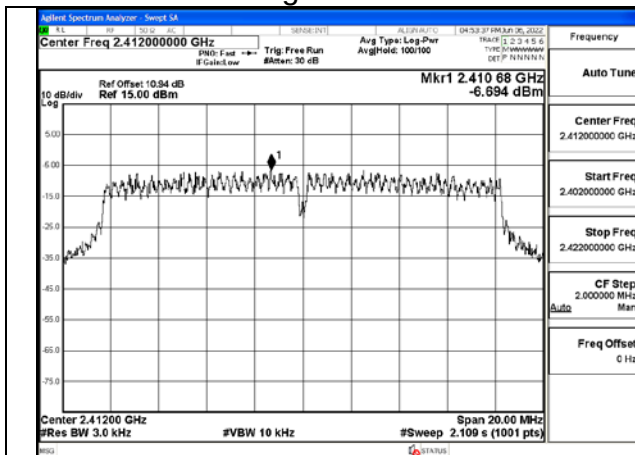
Test Mode:802.11b 2412MHz Chain1



Test Mode:802.11b 2437MHz Chain1

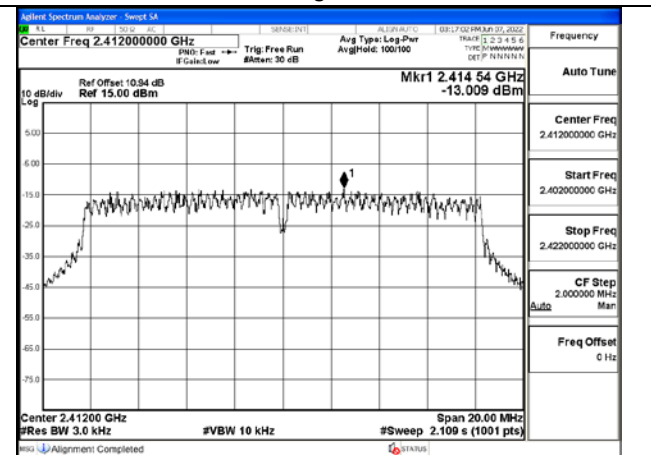
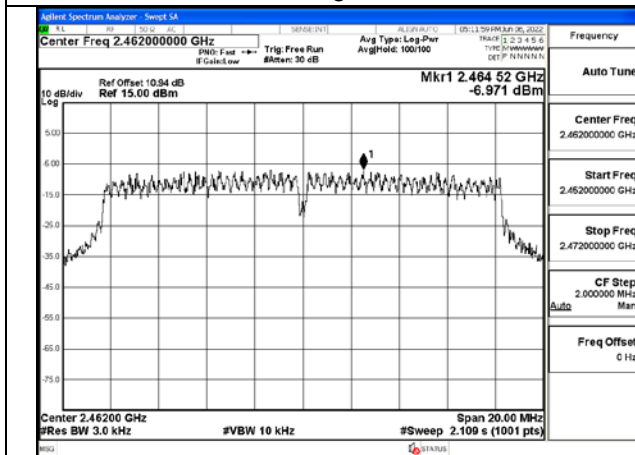
Test Mode:802.11b 2462MHz Chain1

Test Mode: 802.11g



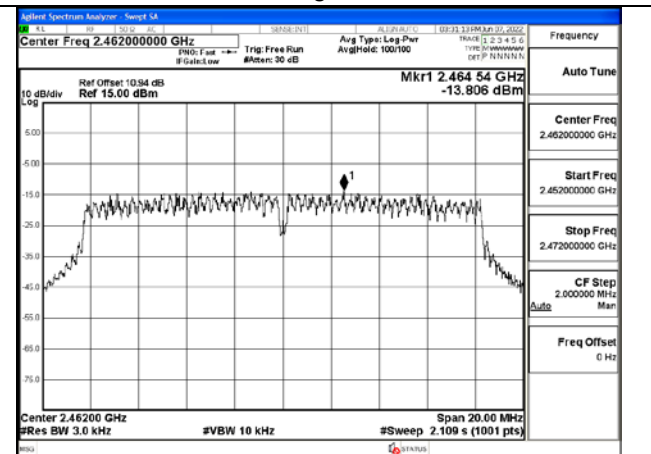
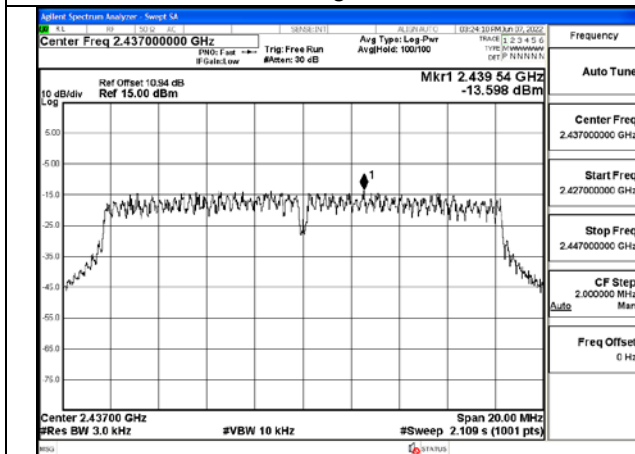
Test Mode:802.11g 2412MHz Chain0

Test Mode:802.11g 2437MHz Chain0



Test Mode:802.11g 2462MHz Chain0

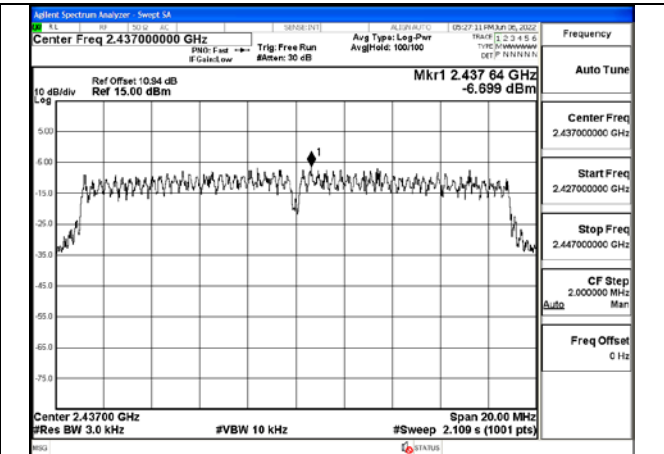
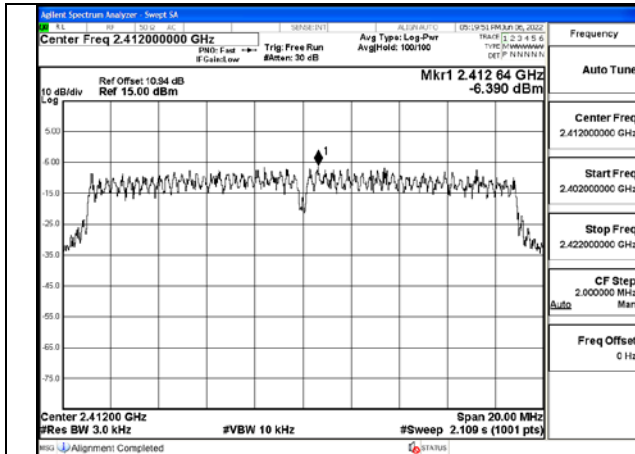
Test Mode:802.11g 2412MHz Chain1



Test Mode:802.11g 2437MHz Chain1

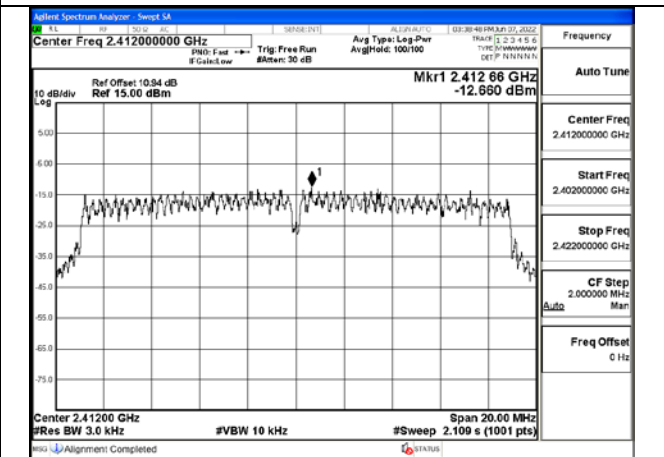
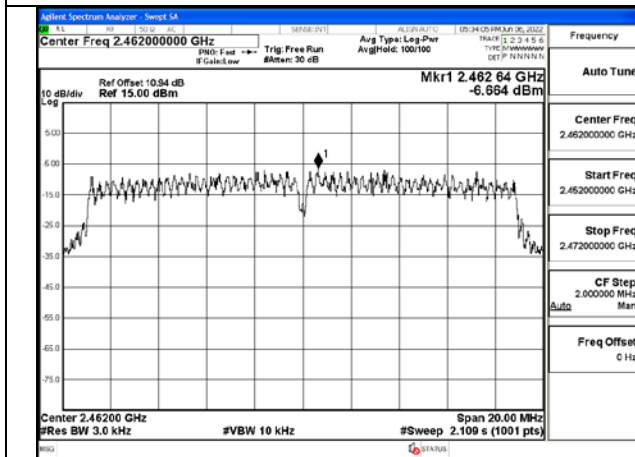
Test Mode:802.11g 2462MHz Chain1

Test Mode: 802.11n HT20



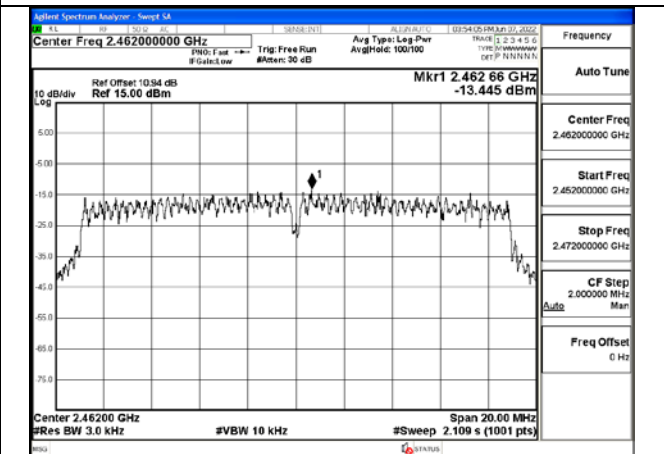
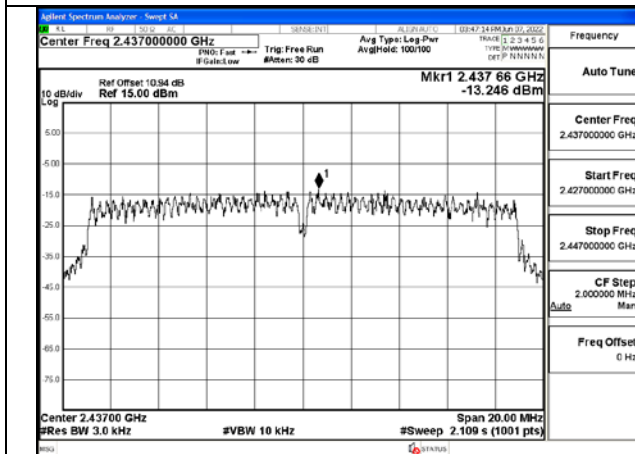
Test Mode:802.11n HT20 2412MHz Chain0

Test Mode:802.11n HT20 2437MHz Chain0



Test Mode:802.11n HT20 2462MHz Chain0

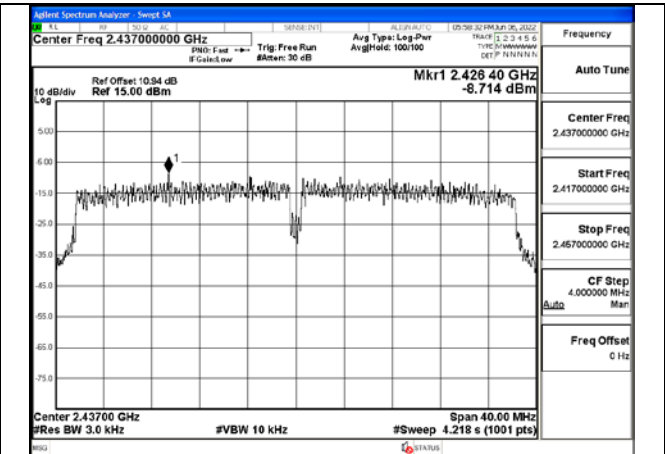
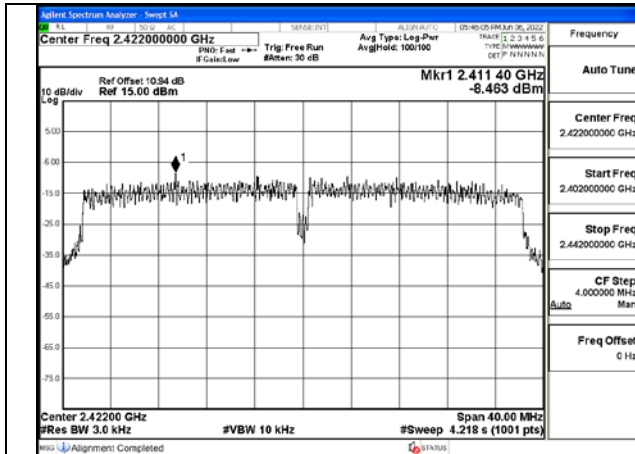
Test Mode:802.11n HT20 2412MHz Chain1



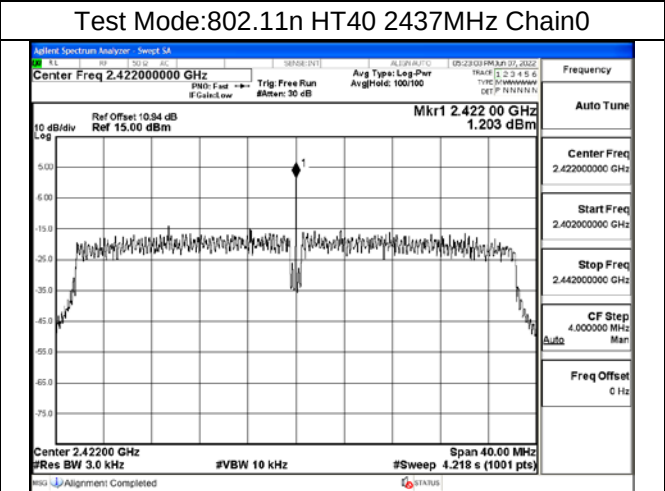
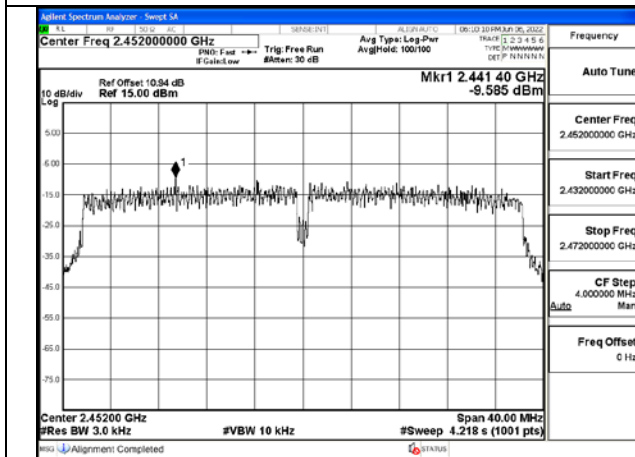
Test Mode:802.11n HT20 2437MHz Chain1

Test Mode:802.11n HT20 2462MHz Chain1

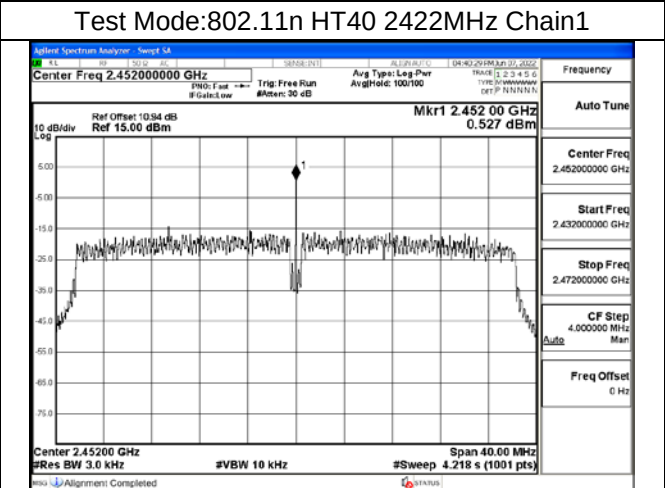
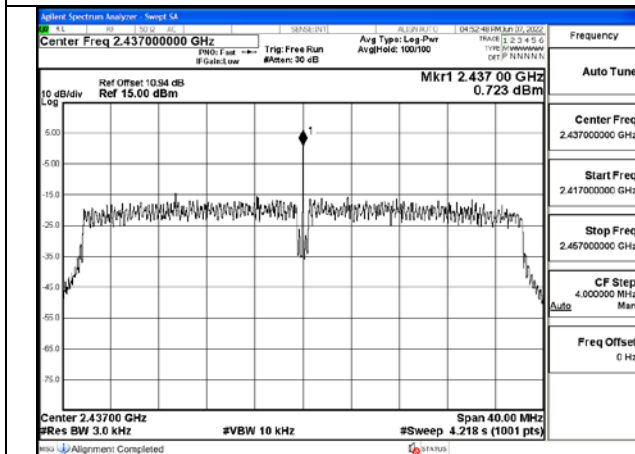
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 2422MHz Chain0



Test Mode:802.11n HT40 2452MHz Chain0



Test Mode:802.11n HT40 2437MHz Chain1

Test Mode:802.11n HT40 2452MHz Chain1