

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5745	99.10%	0	Fig.1
802.11a	5745	99.21%	0	Fig.2
802.11n HT20	5745	99.06%	0	Fig.3
802.11n HT20	5745	99.04%	0	Fig.4
802.11n HT40	5755	98.18%	0	Fig.5
802.11n HT40	5755	98.14%	0	Fig.6

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

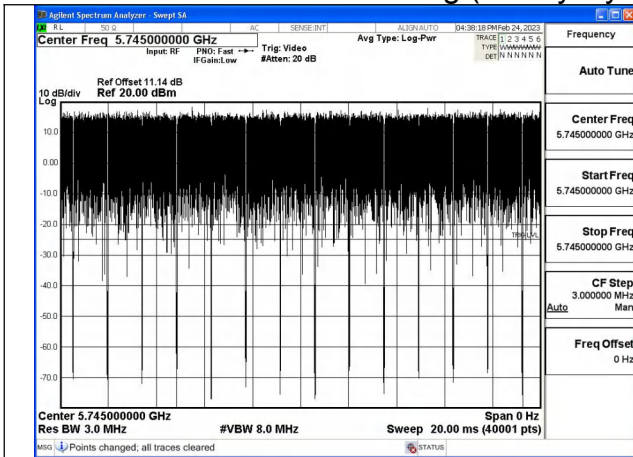


Fig.1

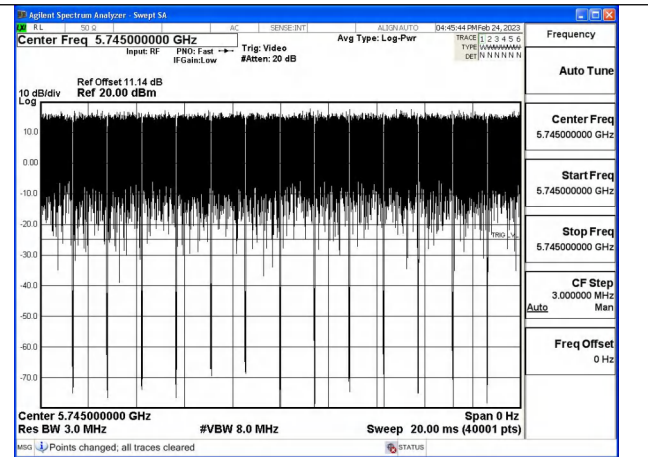


Fig.2

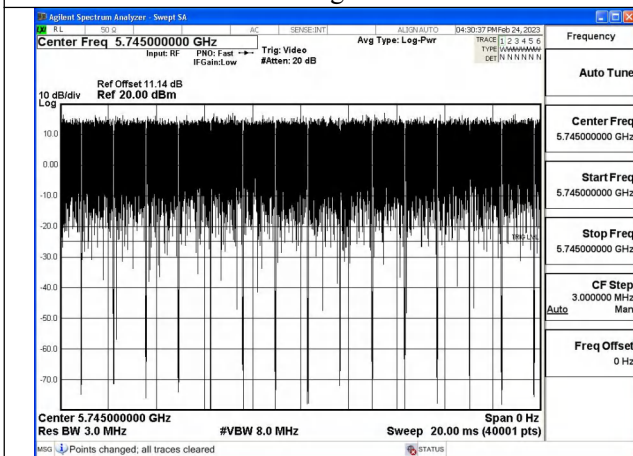


Fig.3

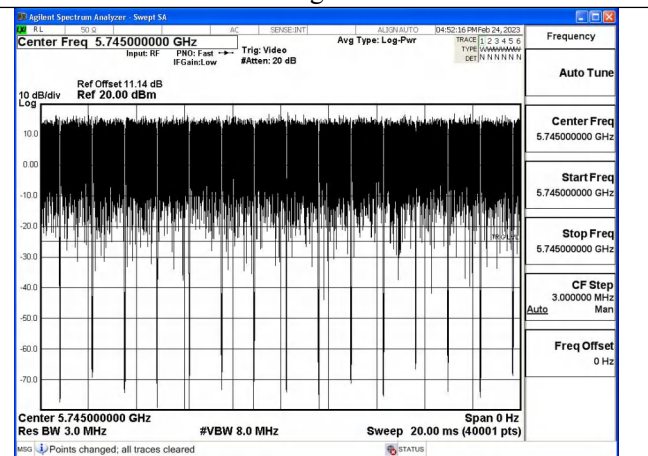


Fig.4

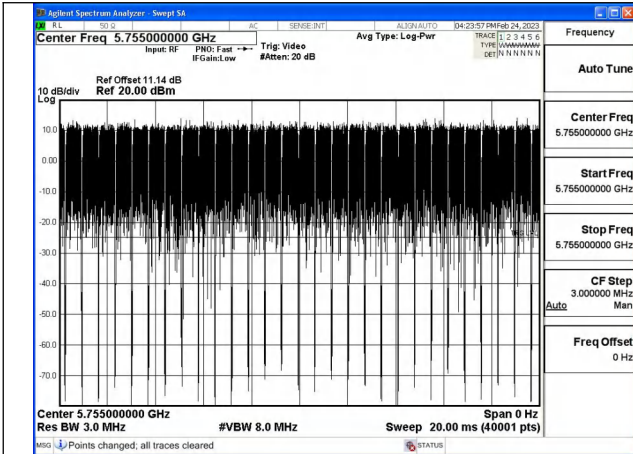


Fig.5

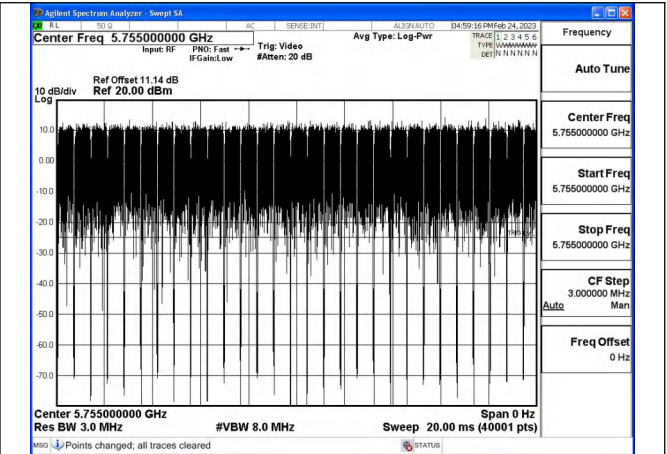


Fig.6

## Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	14.62	18.69
802.11a	NA	5745	Chain1	14.69	17.19
802.11a	NA	5785	Chain0	14.68	18.75
802.11a	NA	5785	Chain1	14.24	16.74
802.11a	NA	5825	Chain0	14.54	18.61
802.11a	NA	5825	Chain1	14.01	16.51
802.11n HT20	NA	5745	Chain0	10.86	14.93
802.11n HT20	NA	5745	Chain1	13.79	16.29
802.11n HT20	NA	5745	MIMO	15.58	18.94
802.11n HT20	NA	5785	Chain0	10.85	14.92
802.11n HT20	NA	5785	Chain1	13.24	15.74
802.11n HT20	NA	5785	MIMO	15.22	18.58
802.11n HT20	NA	5825	Chain0	10.71	14.78
802.11n HT20	NA	5825	Chain1	13.01	15.51
802.11n HT20	NA	5825	MIMO	15.02	18.38
802.11n HT40	NA	5755	Chain0	10.13	14.20
802.11n HT40	NA	5755	Chain1	13.43	15.93
802.11n HT40	NA	5755	MIMO	15.10	18.46
802.11n HT40	NA	5795	Chain0	10.28	14.35
802.11n HT40	NA	5795	Chain1	13.41	15.91
802.11n HT40	NA	5795	MIMO	15.13	18.49

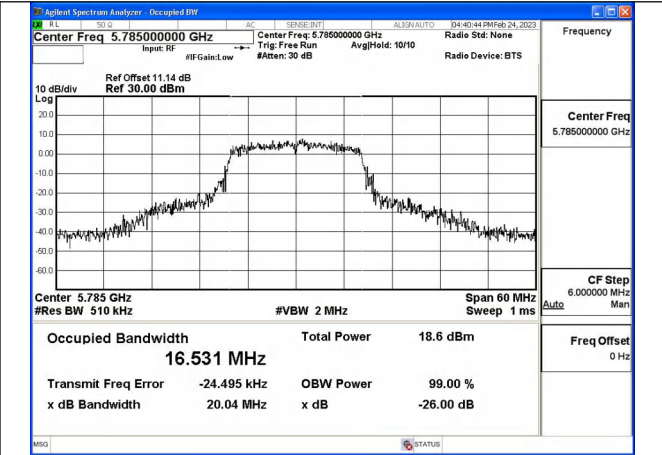
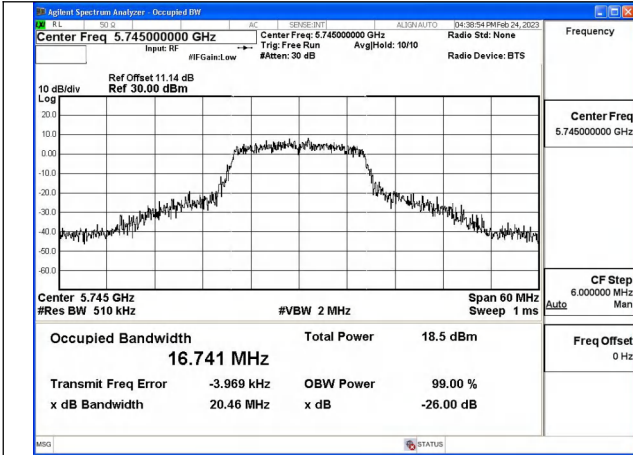
### Emission Bandwidth

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	20.46	20.04	20.36
802.11a	Chain1	19.76	19.61	20.33
802.11n HT20	Chain0	19.60	19.65	19.94
802.11n HT20	Chain1	20.21	20.43	20.16

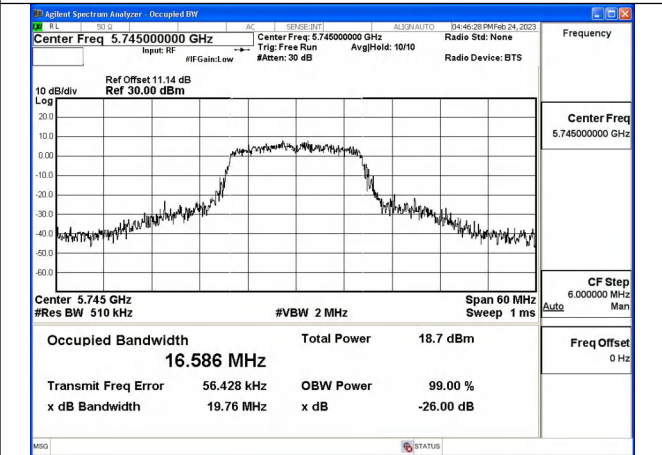
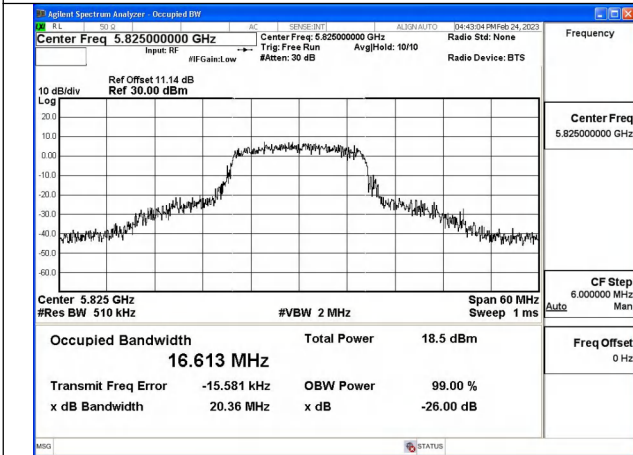
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	40.81	---	40.41
802.11n HT40	Chain1	40.18	---	39.80

Test Mode: 802.11a



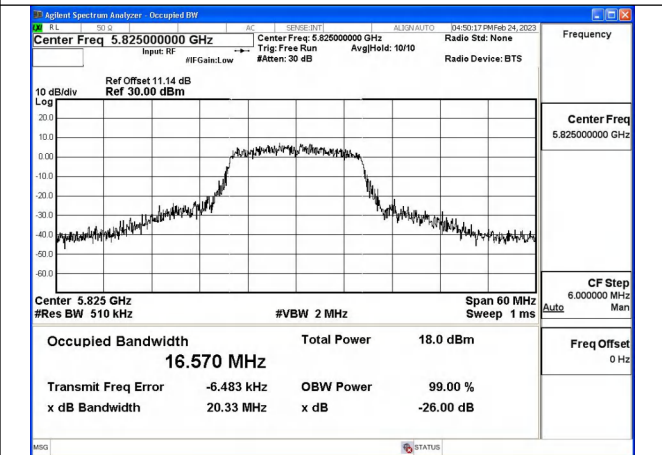
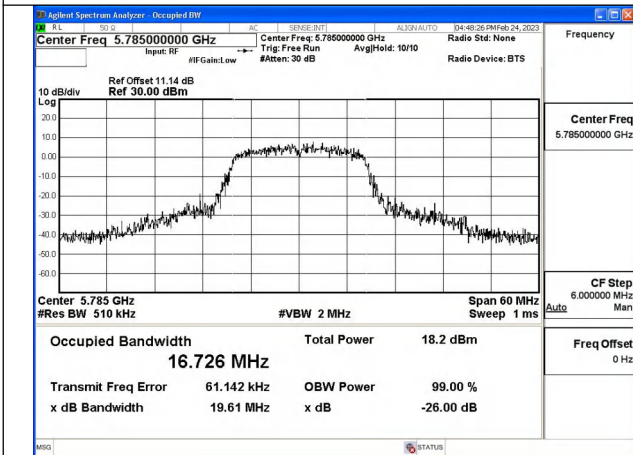
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

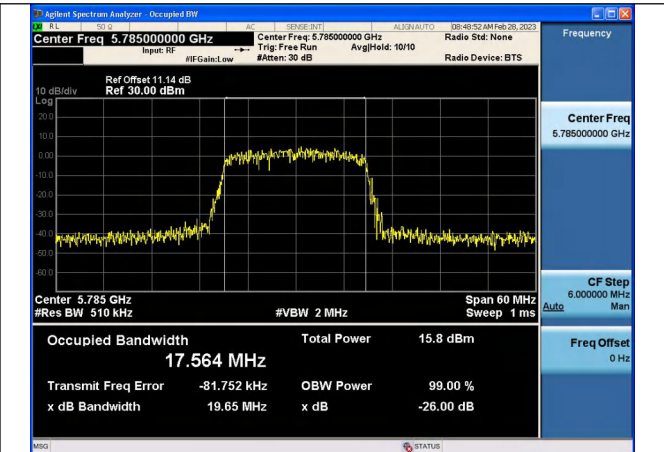
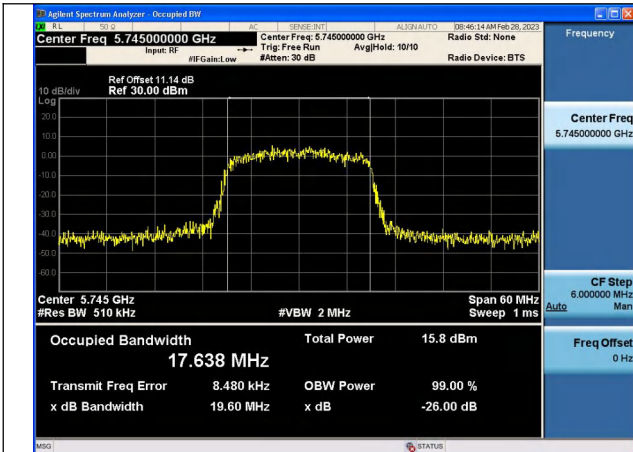
Test Mode:802.11a 5745MHz Chain1



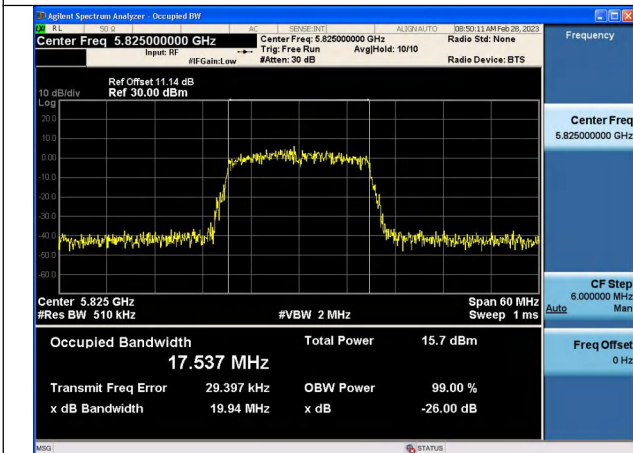
Test Mode:802.11a 5785MHz Chain1

Test Mode:802.11a 5825MHz Chain1

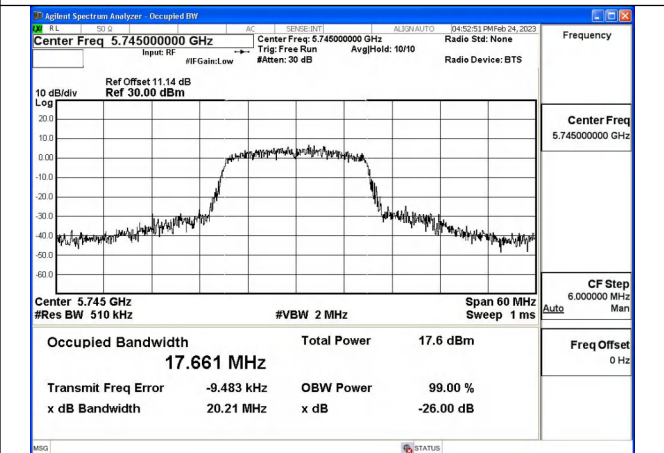
Test Mode: 802.11n HT20



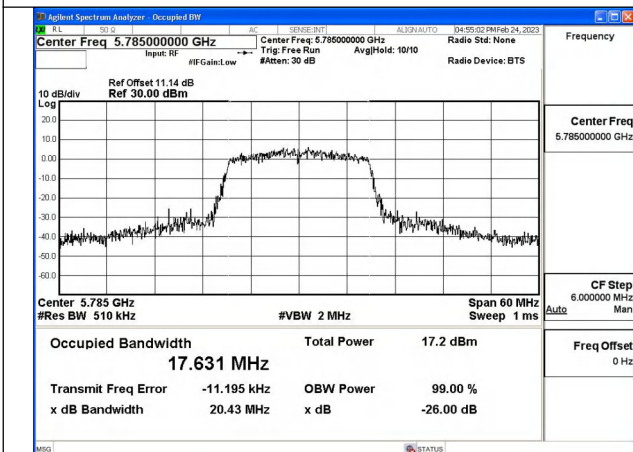
Test Mode:802.11n HT20 5745MHz Chain0



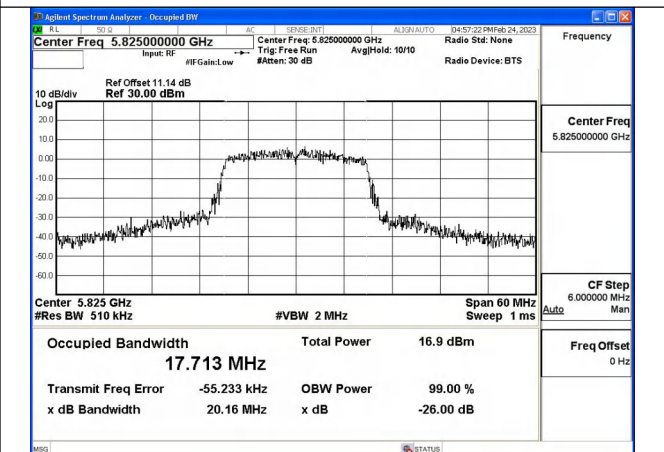
Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

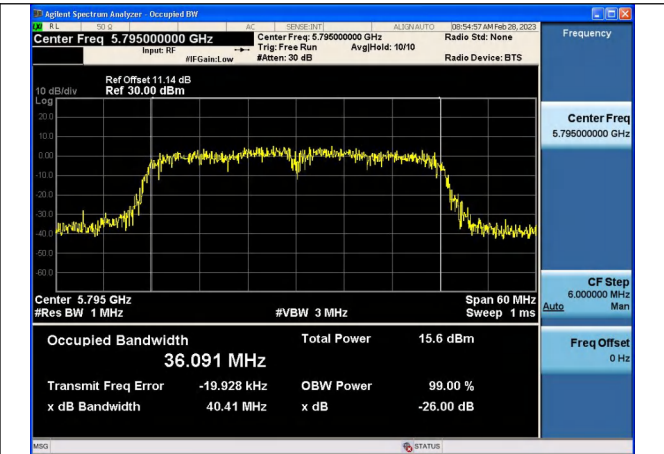
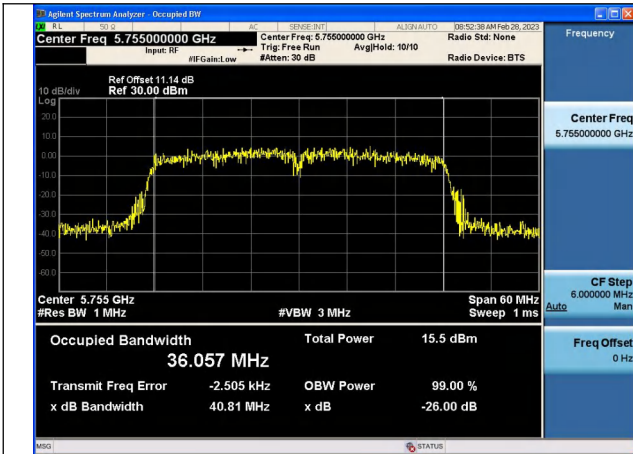


Test Mode:802.11n HT20 5785MHz Chain1

Test Mode:802.11n HT20 5825MHz Chain1

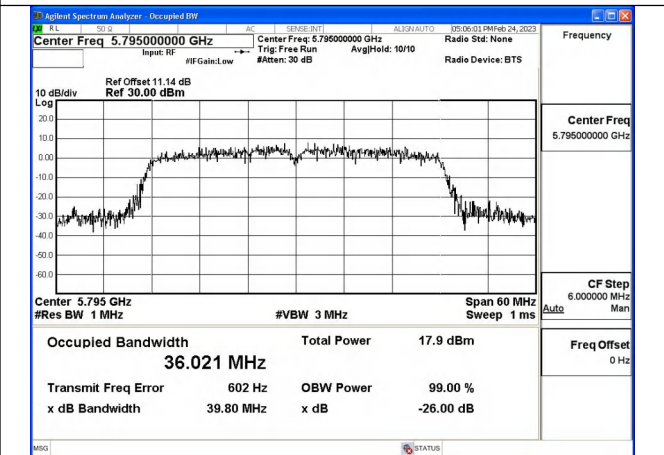
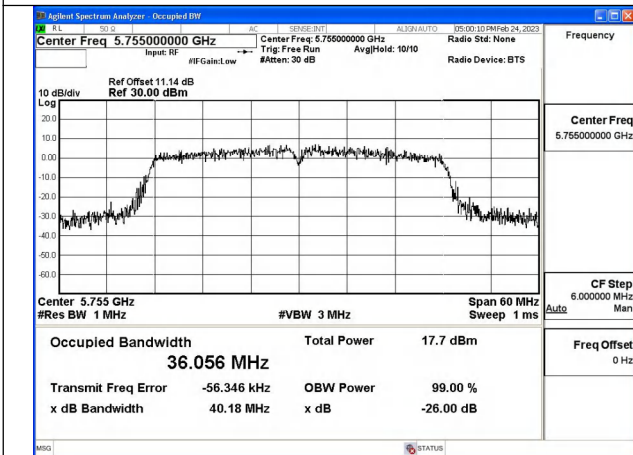


Test Mode: 802.11n HT40



Test Mode: 802.11n HT40 5755MHz Chain0

Test Mode: 802.11n HT40 5795MHz Chain0



Test Mode: 802.11n HT40 5755MHz Chain1

Test Mode: 802.11n HT40 5795MHz Chain1

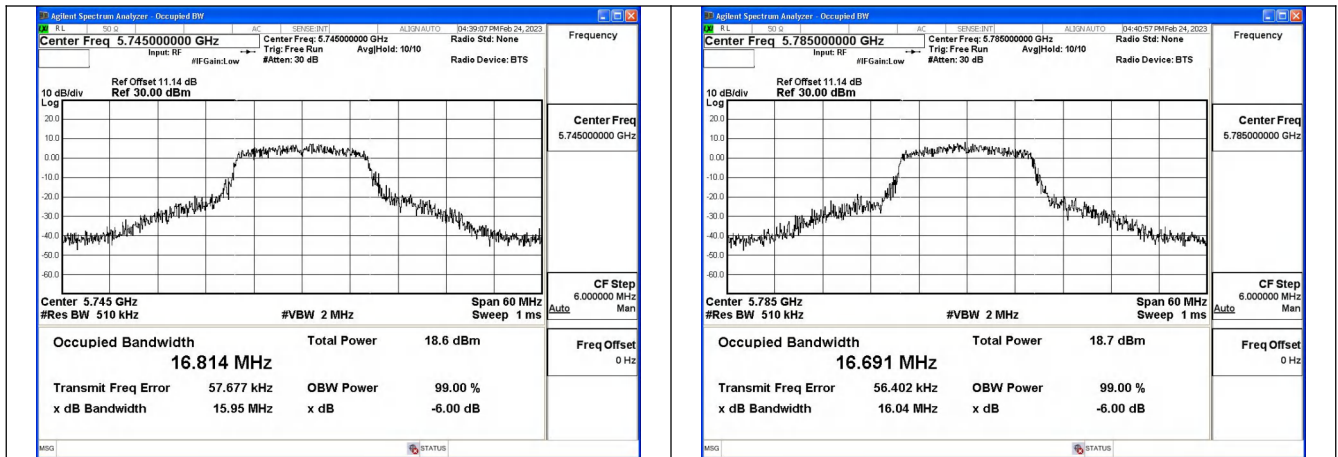
### Occupied Bandwidth

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.814	16.691	16.675
802.11a	Chain1	16.689	16.610	16.590
802.11n HT20	Chain0	17.442	17.634	17.639
802.11n HT20	Chain1	17.730	17.667	17.626

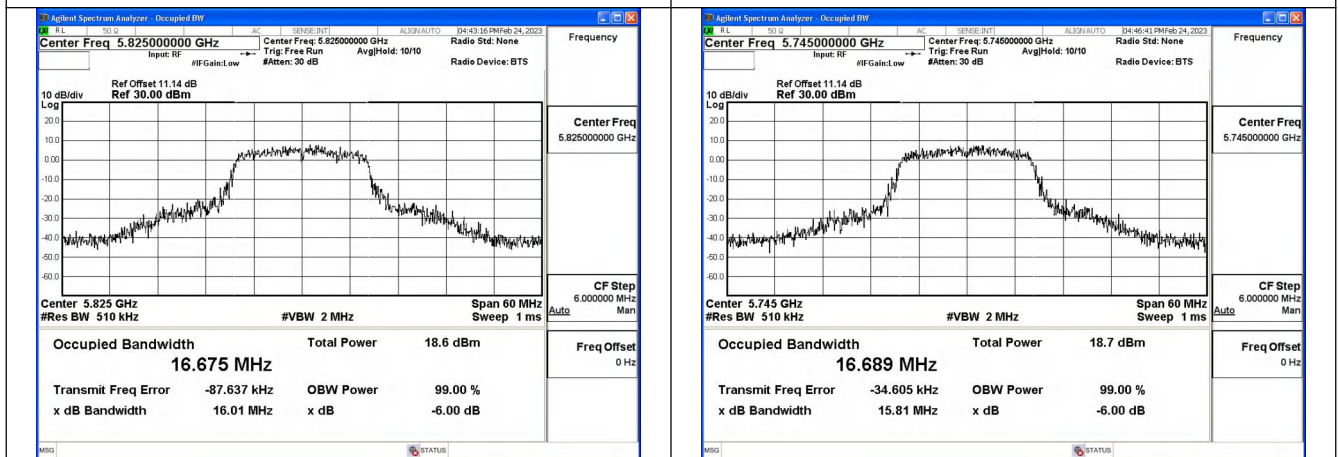
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	35.996	---	36.248
802.11n HT40	Chain1	36.088	---	36.112

Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

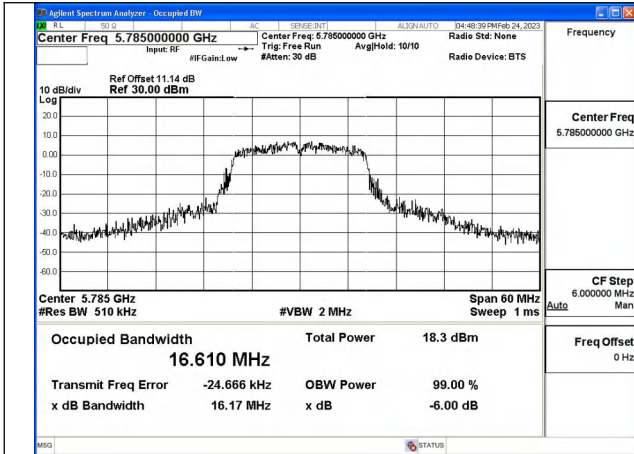
Test Mode:802.11a 5785MHz Chain0



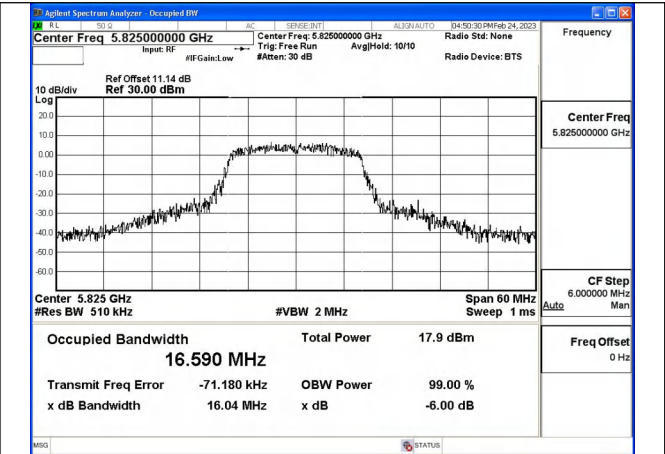
Test Mode:802.11a 5825MHz Chain0

Test Mode:802.11a 5745MHz Chain1



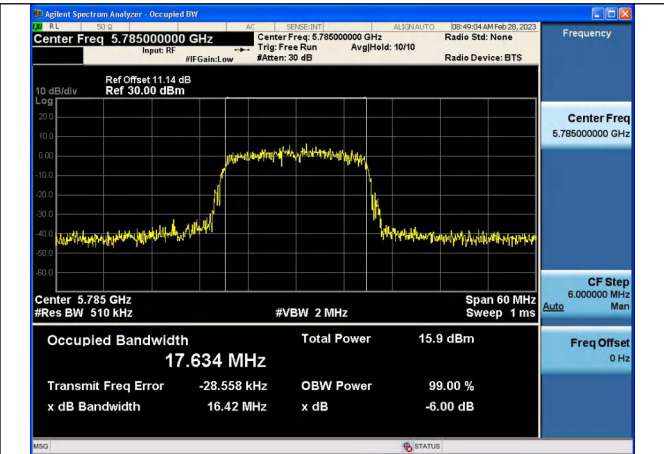
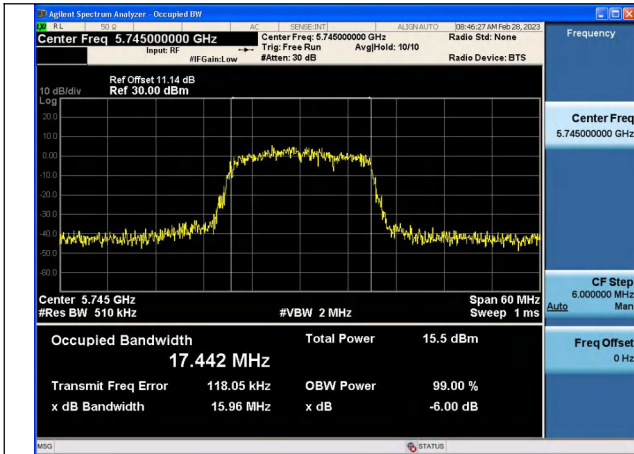


Test Mode:802.11a 5785MHz Chain1



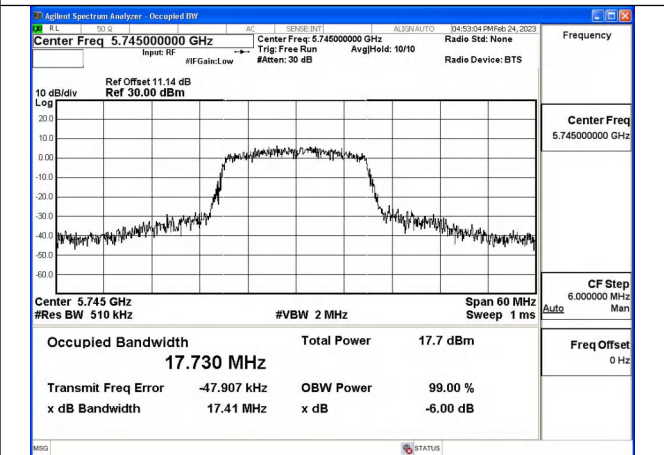
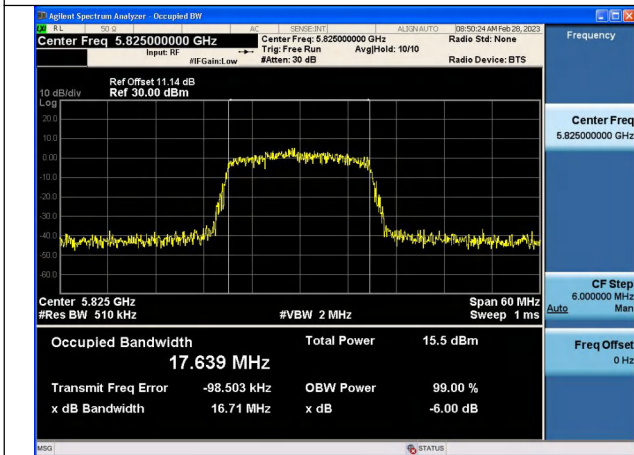
Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



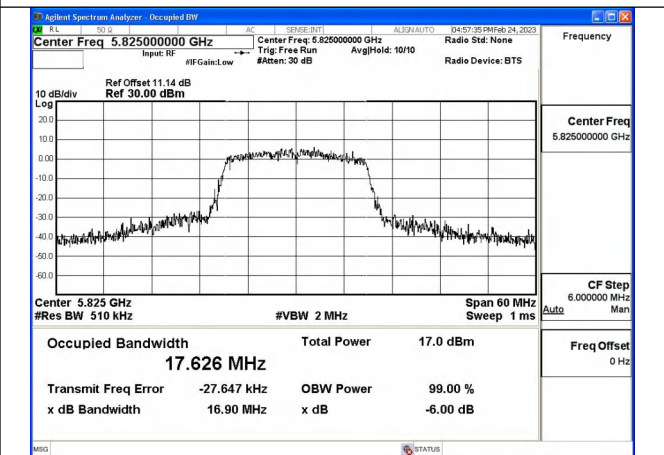
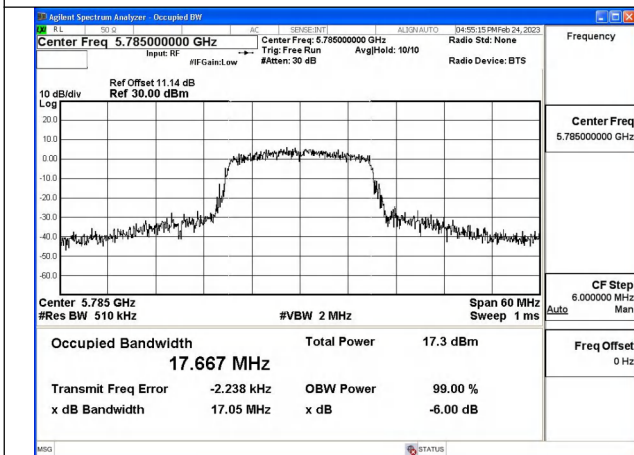
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

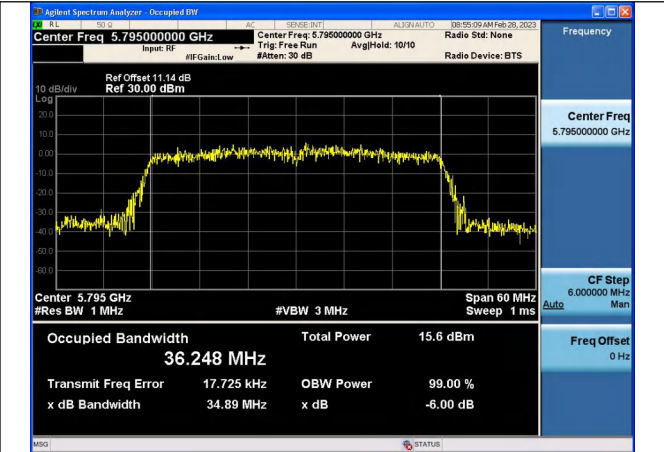
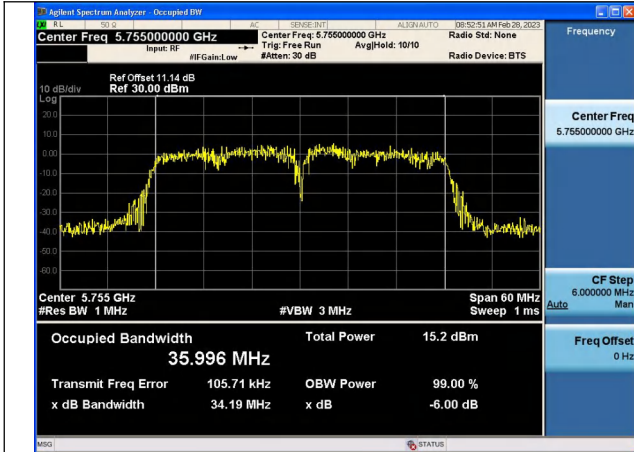
Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1

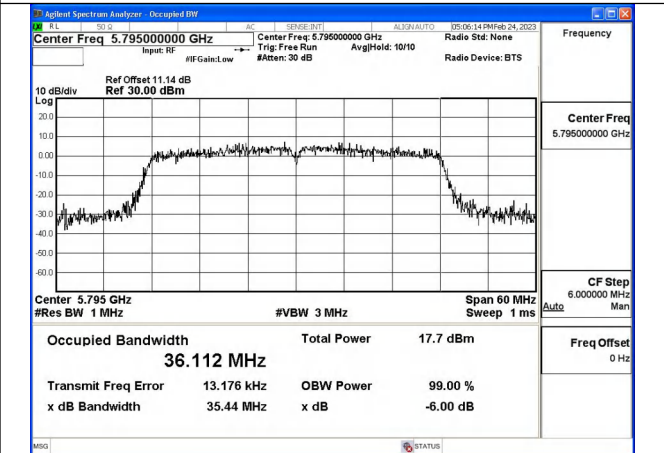
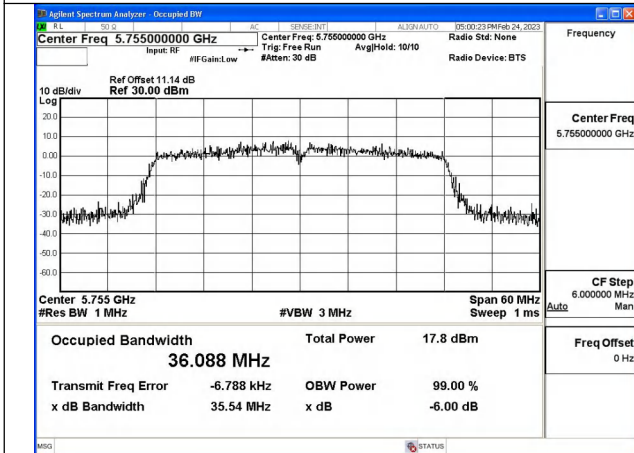
Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode: 802.11n HT40 5755MHz Chain0

Test Mode: 802.11n HT40 5795MHz Chain0



Test Mode: 802.11n HT40 5755MHz Chain1

Test Mode: 802.11n HT40 5795MHz Chain1

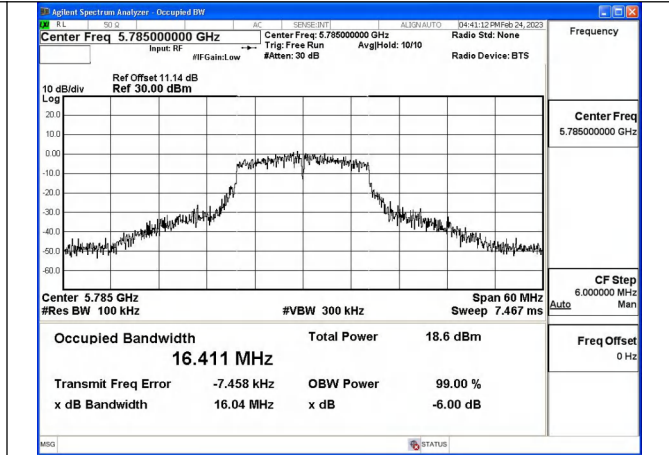
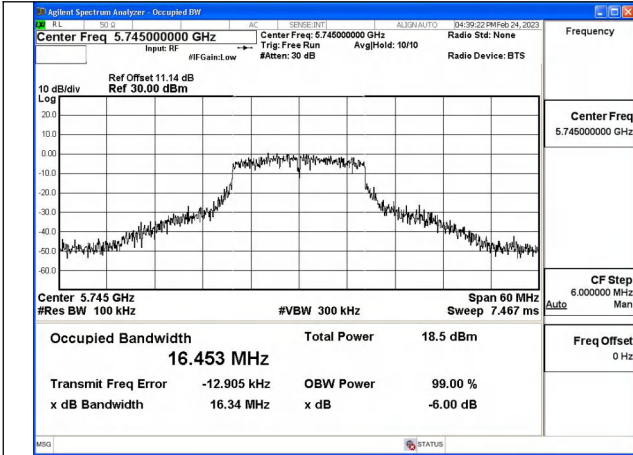
### 6dB Bandwidth

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.34	16.04	16.32
802.11a	Chain1	15.03	15.11	14.41
802.11n HT20	Chain0	17.58	15.12	16.33
802.11n HT20	Chain1	17.37	16.36	16.87

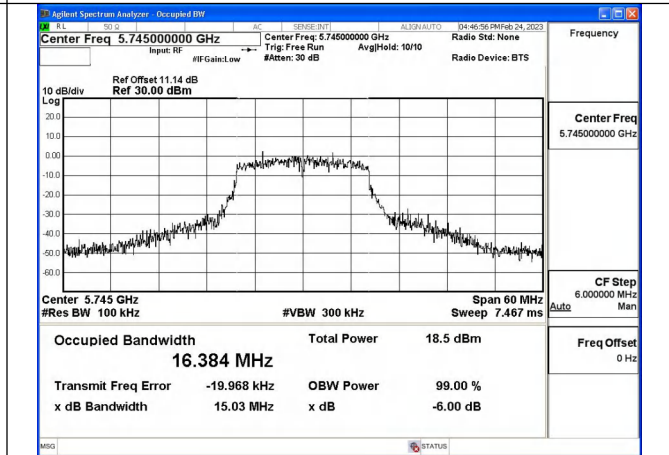
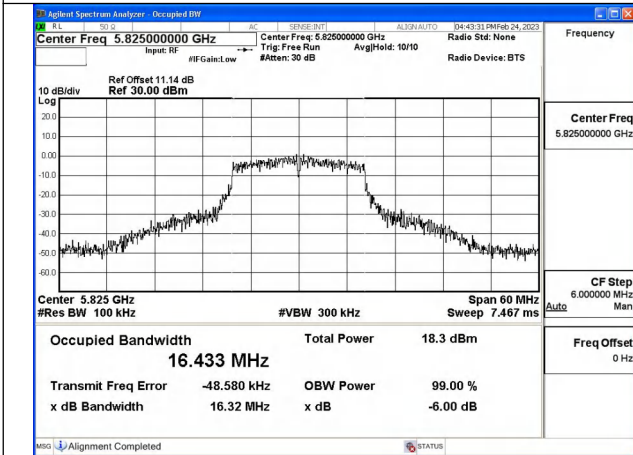
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	35.00	---	32.56
802.11n HT40	Chain1	32.59	---	32.19

Test Mode: 802.11a



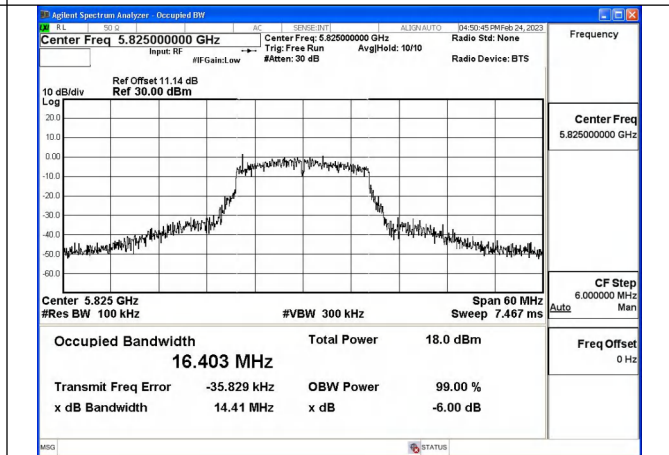
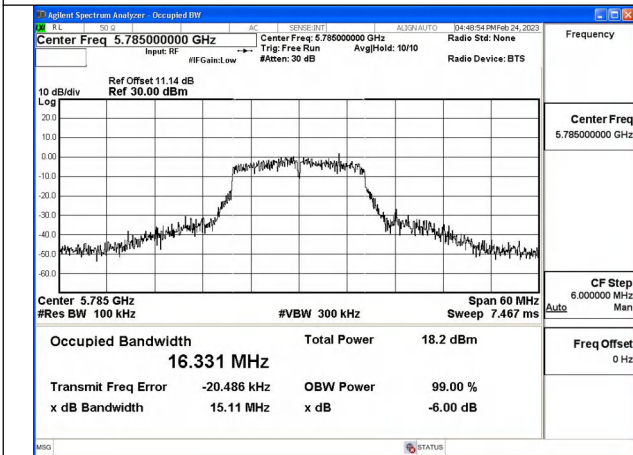
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

Test Mode:802.11a 5745MHz Chain1

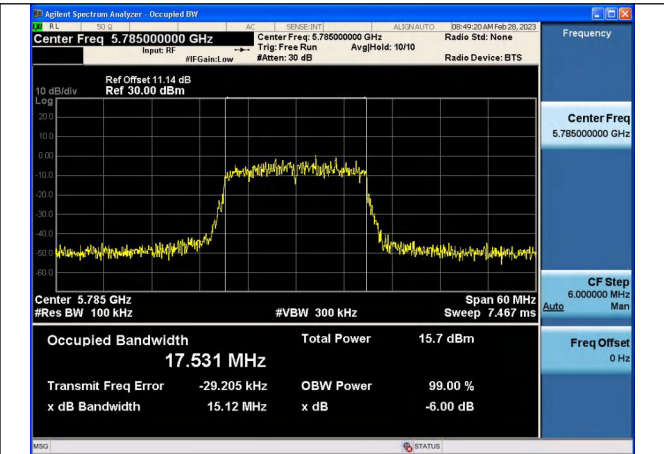
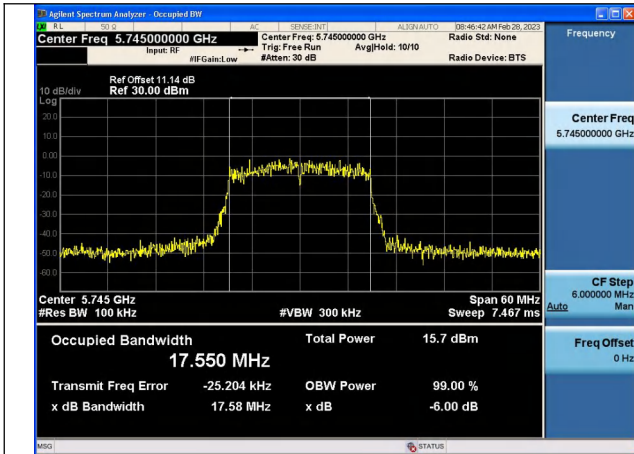


Test Mode:802.11a 5785MHz Chain1

Test Mode:802.11a 5825MHz Chain1

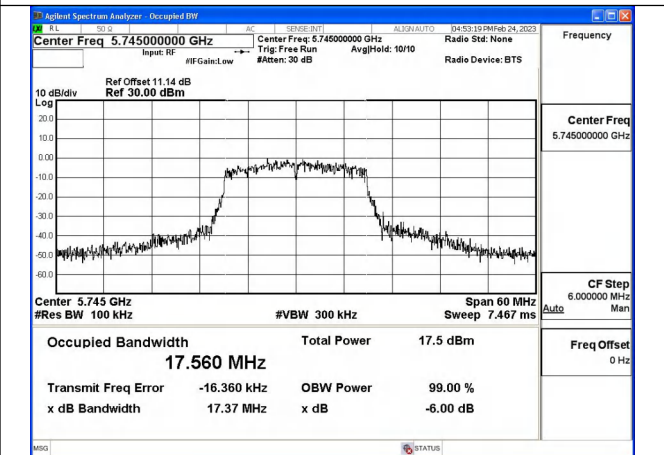
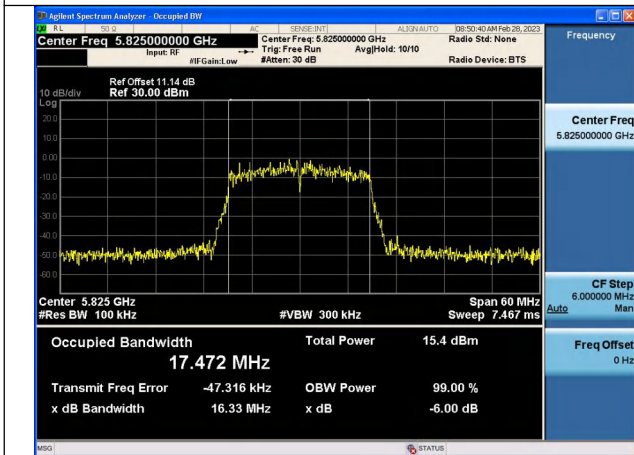


Test Mode: 802.11n HT20



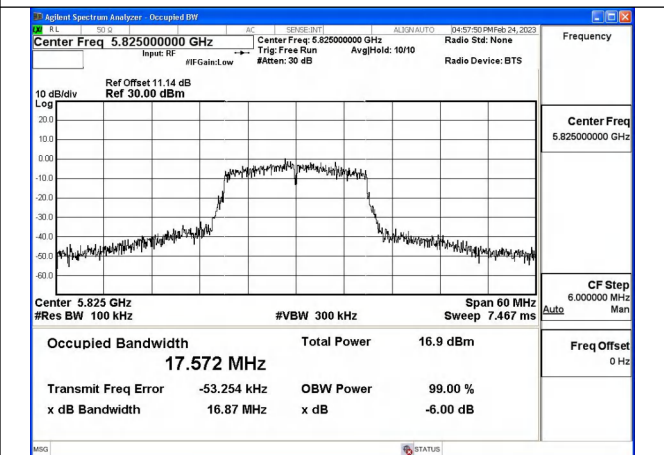
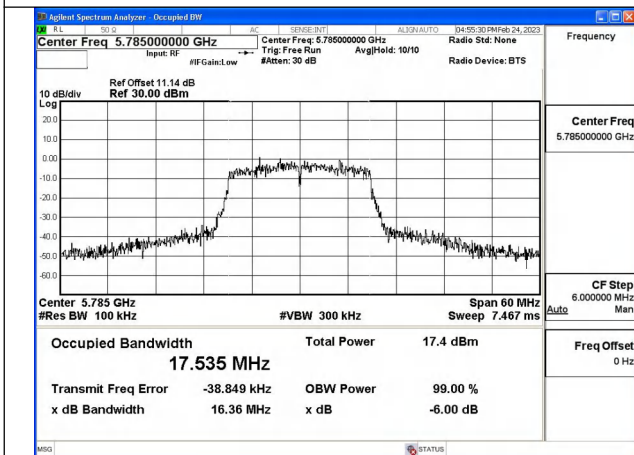
Test Mode:802.11n HT20 5745MHz Chain0

Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0

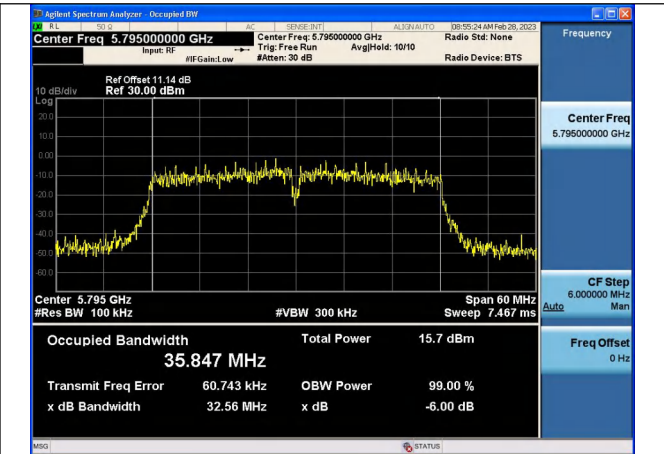
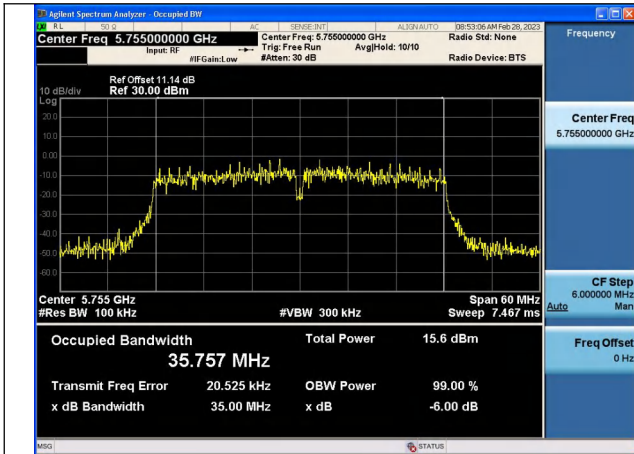
Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1

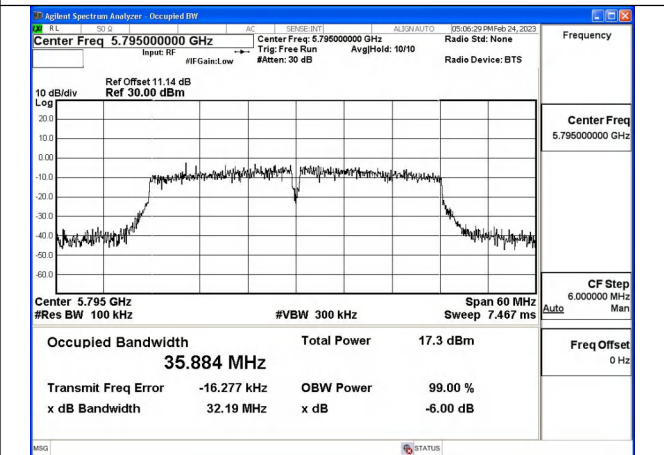
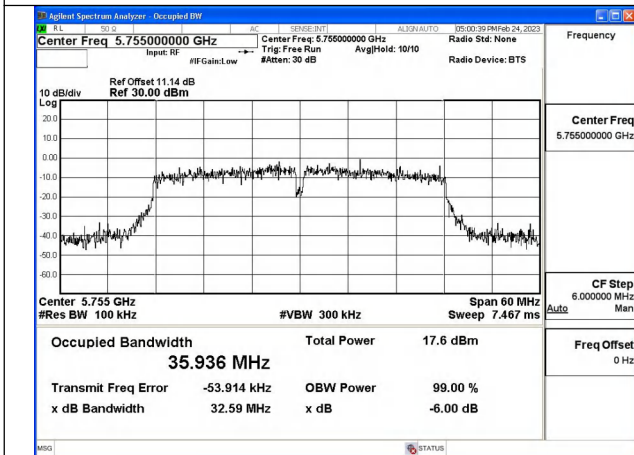
Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode: 802.11n HT40 5755MHz Chain0

Test Mode: 802.11n HT40 5795MHz Chain0



Test Mode: 802.11n HT40 5755MHz Chain1

Test Mode: 802.11n HT40 5795MHz Chain1

## Transmitter Power Spectral Density

Offset 11.14dB = Attenuator + Temporary antenna connector loss + Cable loss

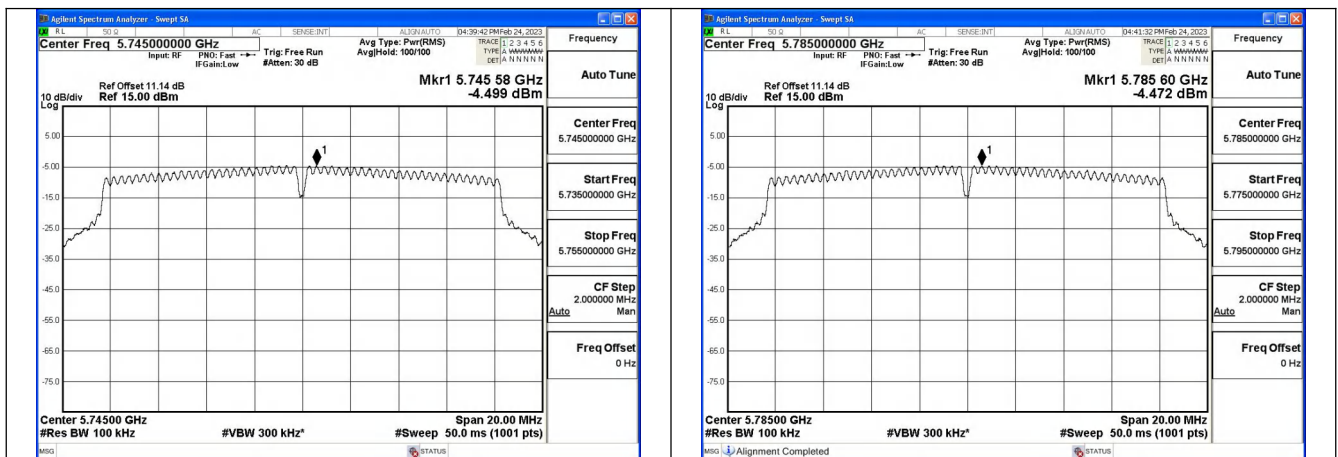
Test Mode	Antenna	Tones	5745MHz		5785MHz		5825MHz	
			Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)
802.11a	Chain0	NA	0	2.491	---	2.518	---	2.409
802.11a	Chain1	NA	0	2.444	---	2.188	---	1.813
802.11n HT20	Chain0	NA	0	1.519	---	1.543	---	1.408
802.11n HT20	Chain1	NA	0	1.340	---	1.107	---	0.615
802.11n HT20	MIMO	NA	0	4.441	---	4.341	---	4.040

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	Antenna	Tones	5755MHz		---		5795MHz	
			Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)	Correction Factor (dB)	Power Density (dBm/500KHz)
802.11n HT40	Chain0	NA	0	-1.345	---	---	---	-1.215
802.11n HT40	Chain1	NA	0	-1.516	---	---	---	-1.736
802.11n HT40	MIMO	NA	0	1.581	---	---	---	1.543

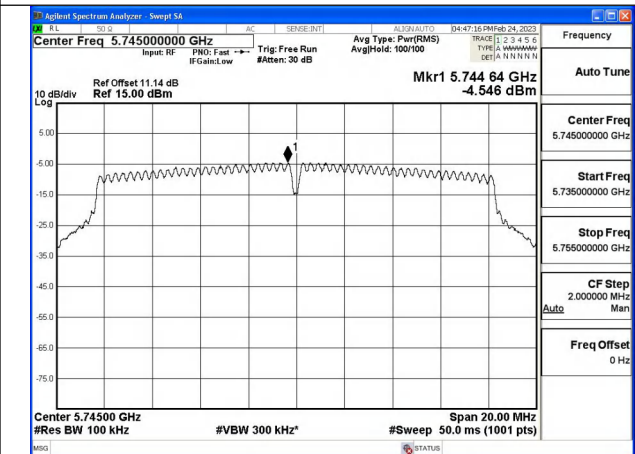
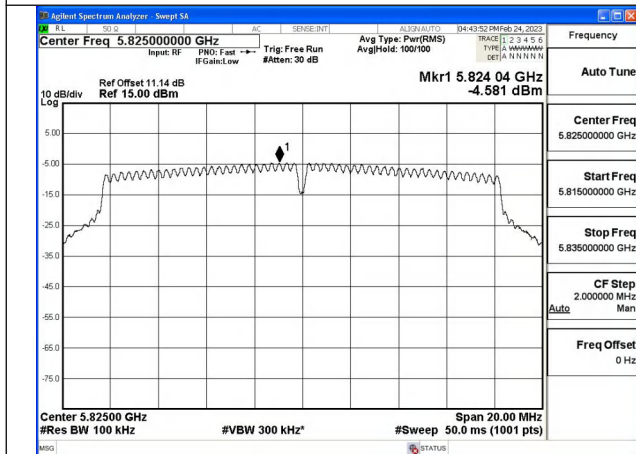
Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

Test Mode: 802.11a



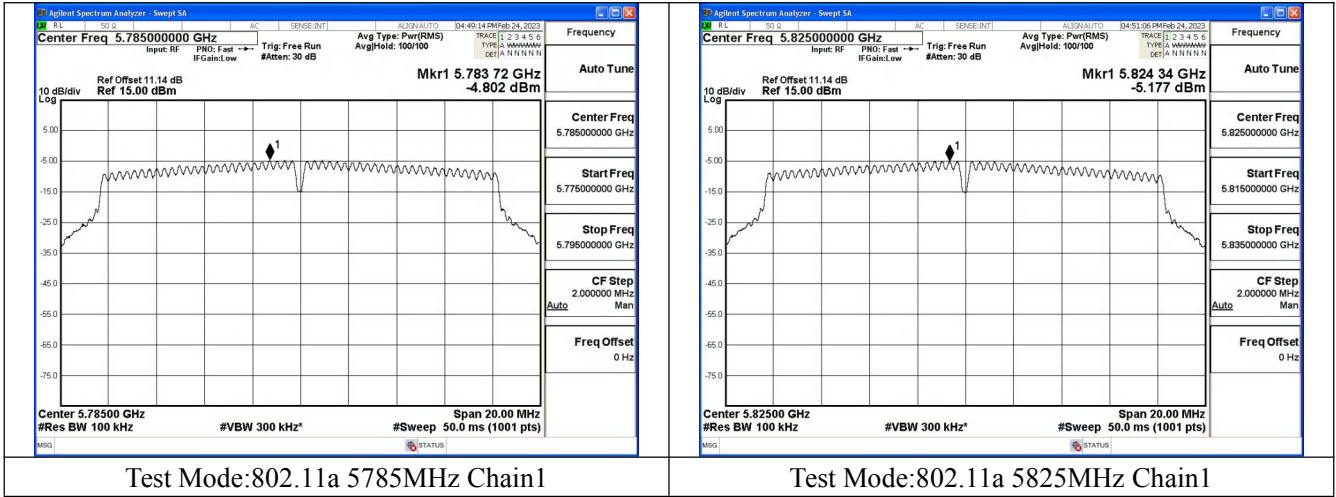
Test Mode: 802.11a 5745MHz Chain0

Test Mode: 802.11a 5785MHz Chain0



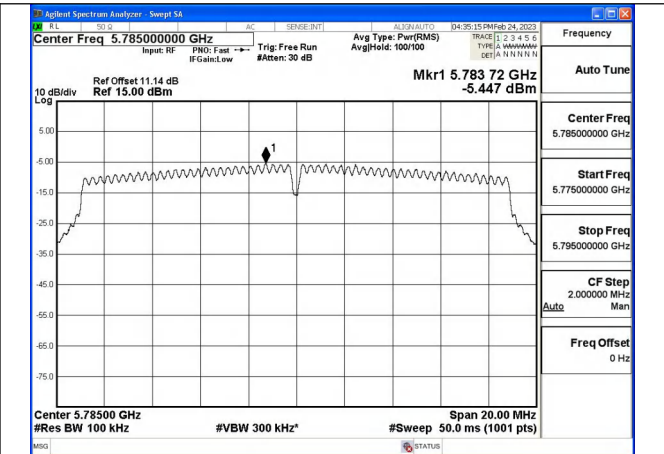
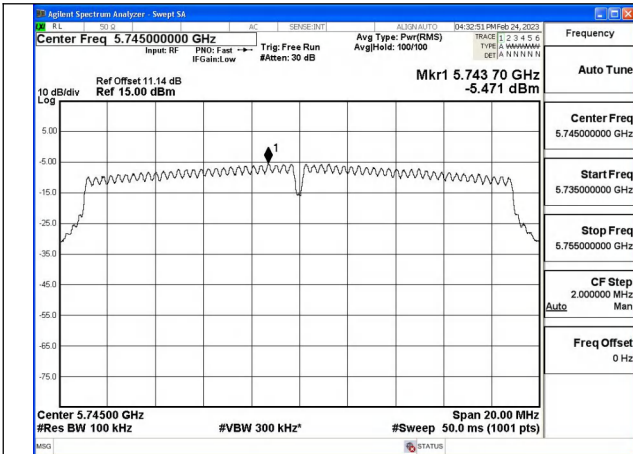
Test Mode: 802.11a 5825MHz Chain0

Test Mode: 802.11a 5745MHz Chain1

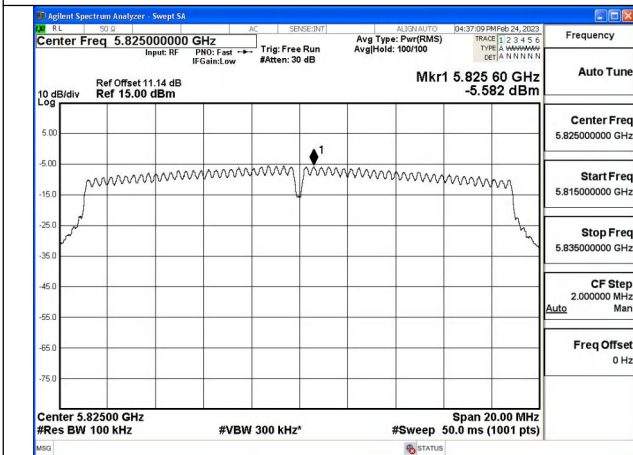




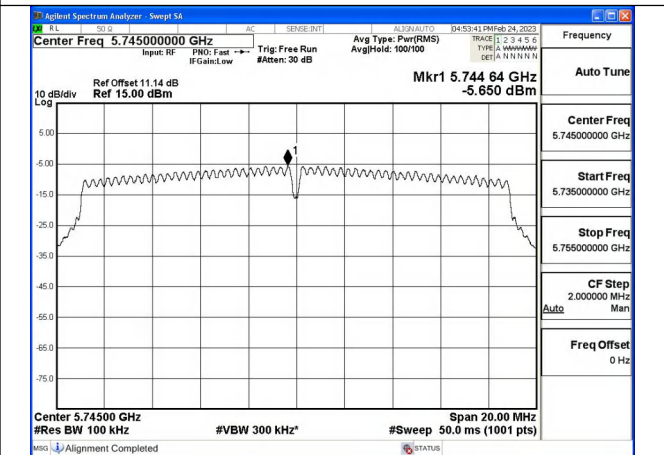
Test Mode: 802.11n HT20



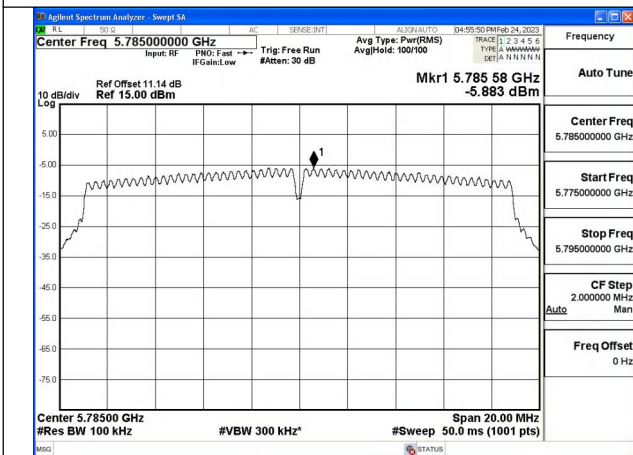
Test Mode: 802.11n HT20 5745MHz Chain0



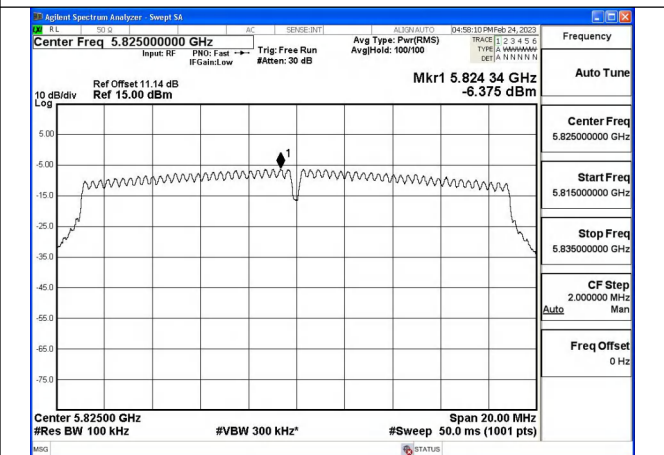
Test Mode: 802.11n HT20 5785MHz Chain0



Test Mode: 802.11n HT20 5825MHz Chain0



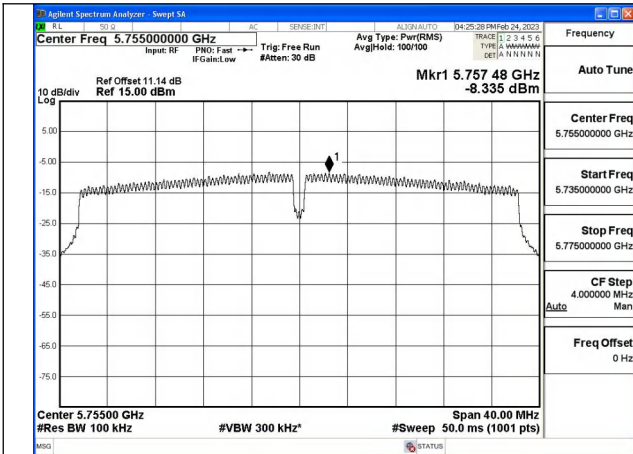
Test Mode: 802.11n HT20 5745MHz Chain1



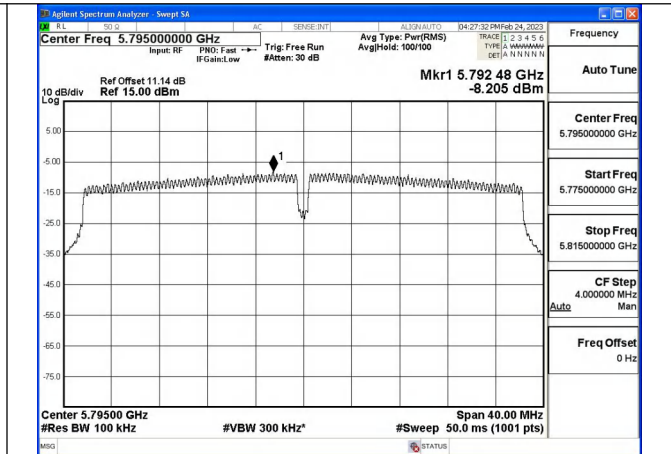
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Test Mode: 802.11n HT20 5825MHz Chain1

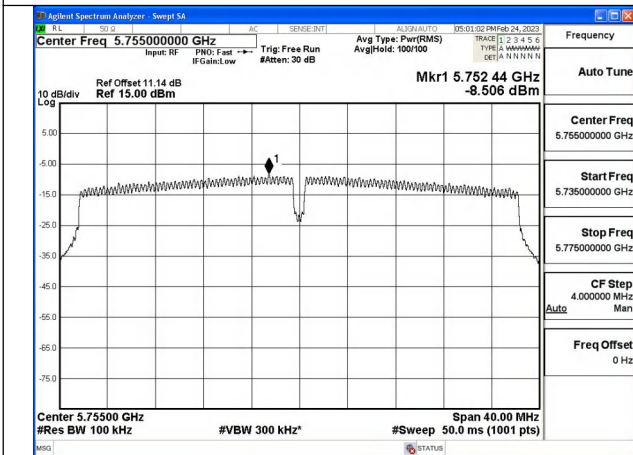
Test Mode: 802.11n HT40



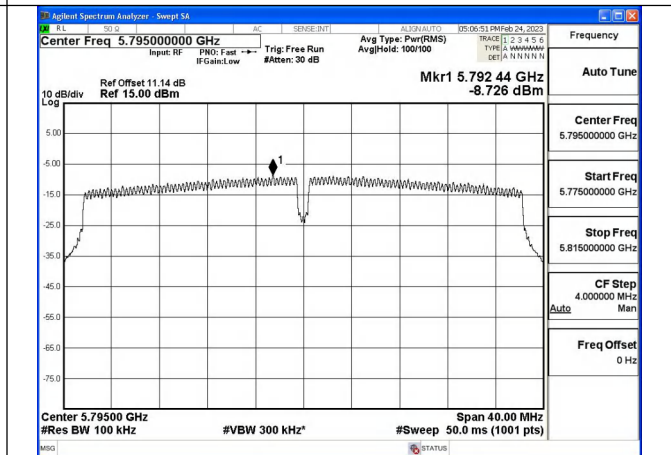
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1



Test Mode:802.11n HT40 5795MHz Chain1