

APPENDIX A1 – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	97.65%	0.10
802.11n HT20	5180	96.96%	0.13
802.11n HT40	5190	94.40%	0.25

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

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	12.37	13.87
802.11a	NA	5220	Chain0	12.54	14.04
802.11a	NA	5240	Chain0	12.85	14.35
802.11n HT20	NA	5180	Chain0	12.24	13.74
802.11n HT20	NA	5220	Chain0	12.57	14.07
802.11n HT20	NA	5240	Chain0	13.42	14.92
802.11n HT40	NA	5190	Chain0	12.57	14.07
802.11n HT40	NA	5230	Chain0	12.92	14.42

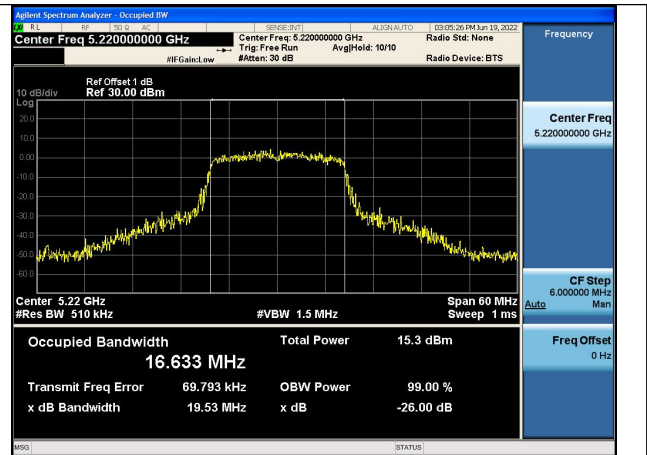
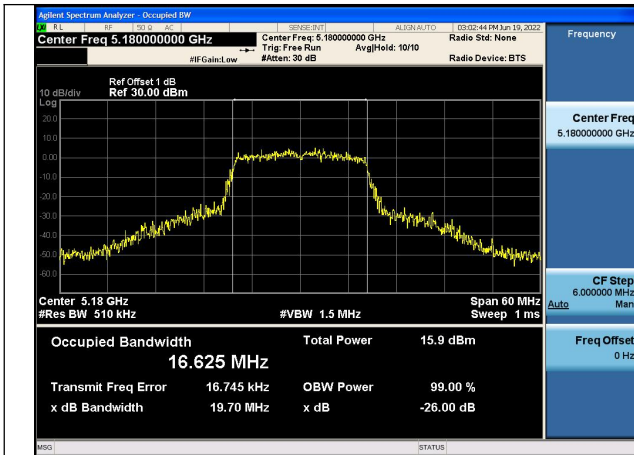
Emission Bandwidth

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	19.70	19.53	19.66
802.11n HT20	Chain0	19.66	19.77	19.69

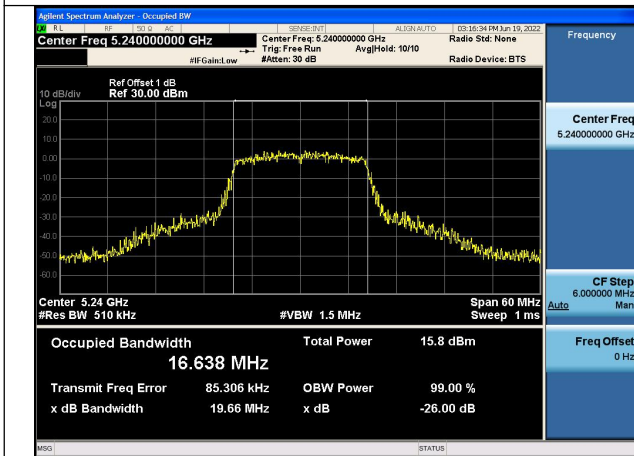
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5190MHz	---	5230MHz
802.11n HT40	Chain0	40.32	---	39.66

Test Mode: 802.11a



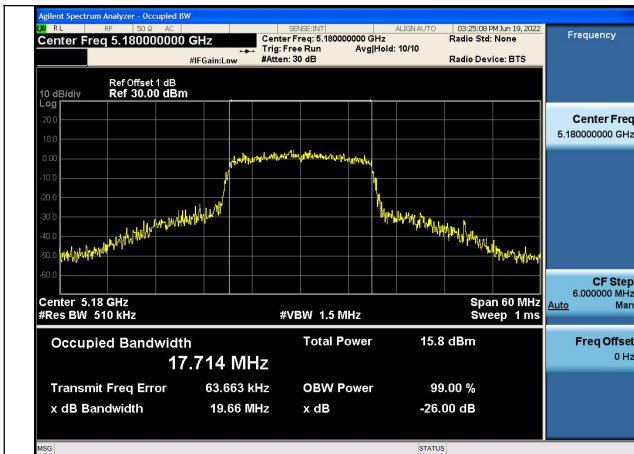
Test Mode:802.11a 5180MHz Chain0

Test Mode:802.11a 5220MHz Chain0



Test Mode:802.11a 5240MHz Chain0

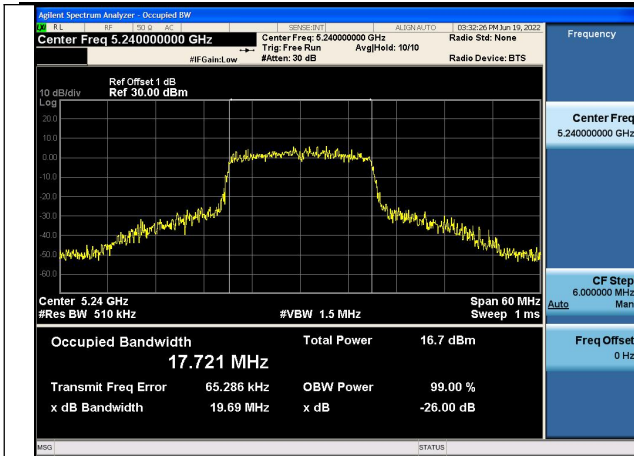
Test Mode: 802.11n HT20



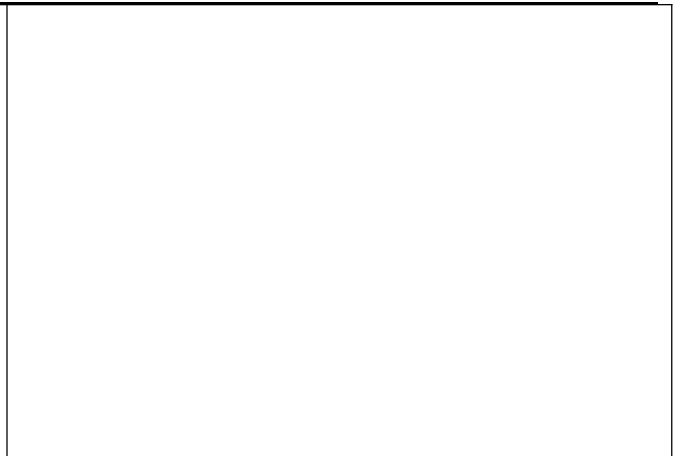
Test Mode:802.11n HT20 5180MHz Chain0



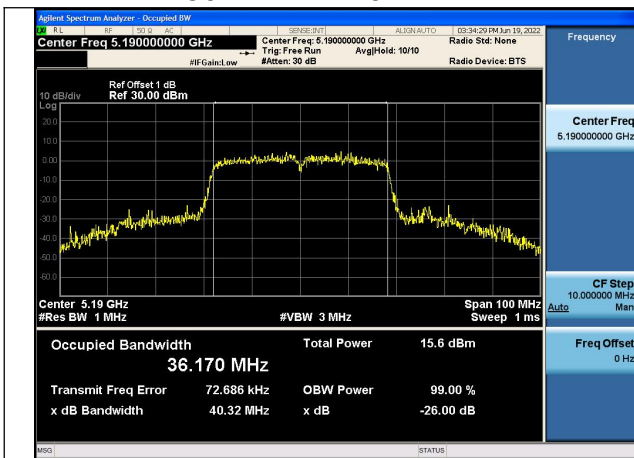
Test Mode:802.11n HT20 5220MHz Chain0



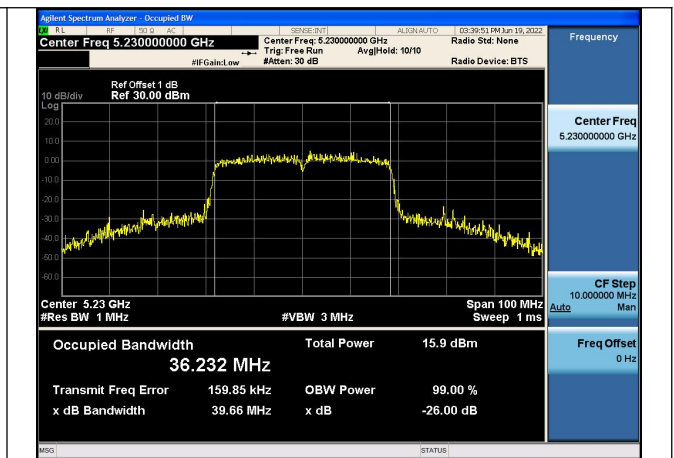
Test Mode:802.11n HT20 5240MHz Chain0



Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

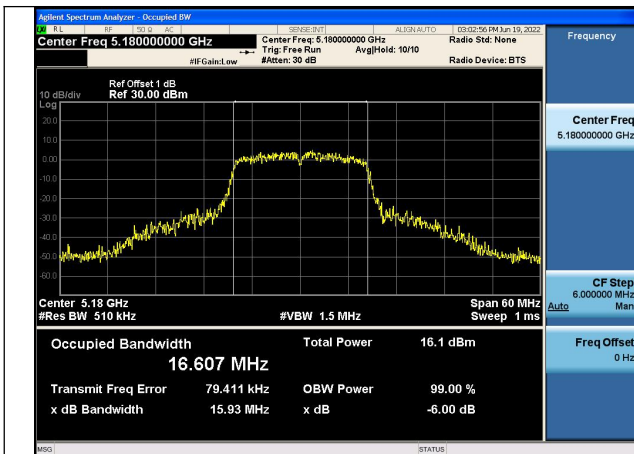
Occupied Bandwidth

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
802.11a	Chain0	16.607	16.585	16.628
802.11n HT20	Chain0	17.705	17.720	17.831

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
802.11n HT40	Chain0	36.162	---	36.219

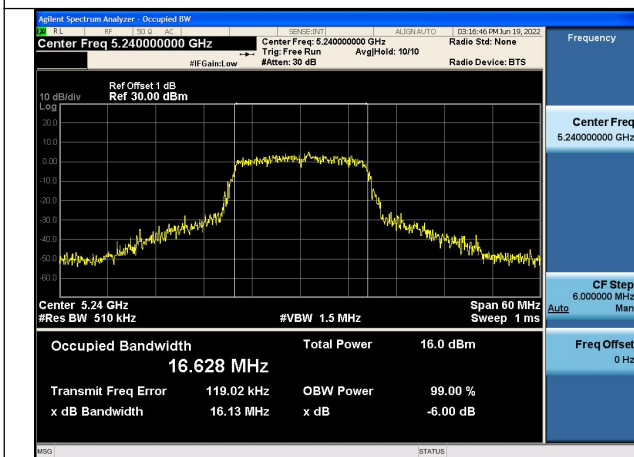
Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0

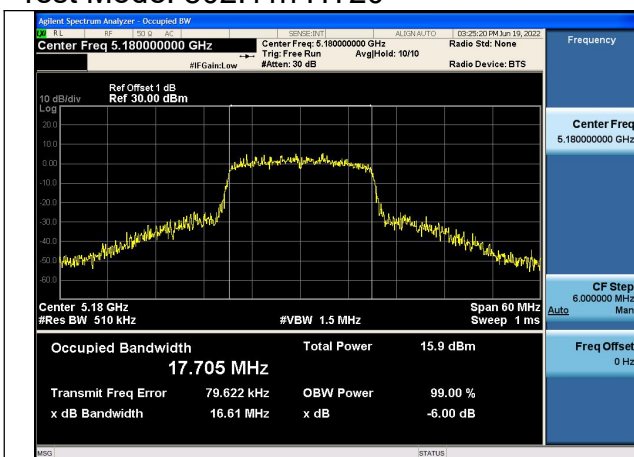


Test Mode:802.11a 5220MHz Chain0

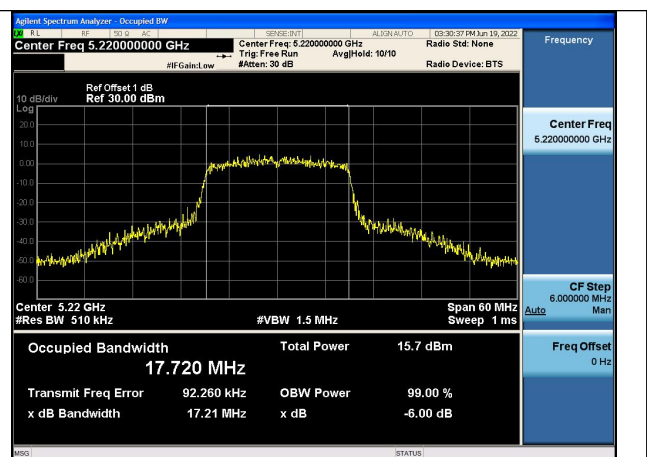


Test Mode:802.11a 5240MHz Chain0

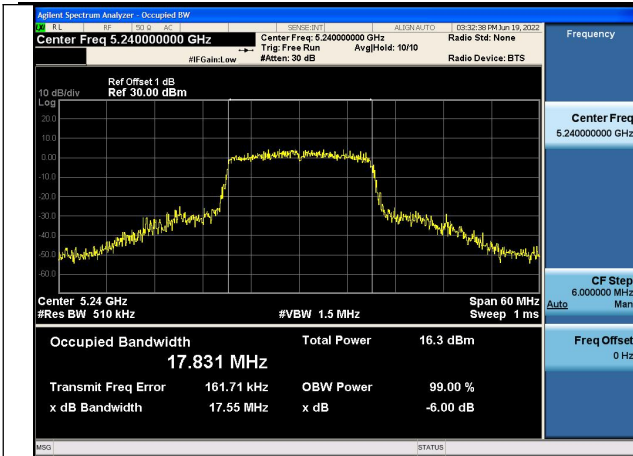
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

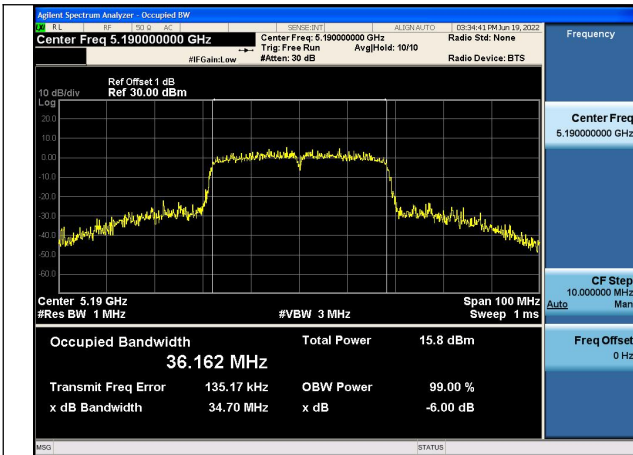


Test Mode:802.11n HT20 5220MHz Chain0

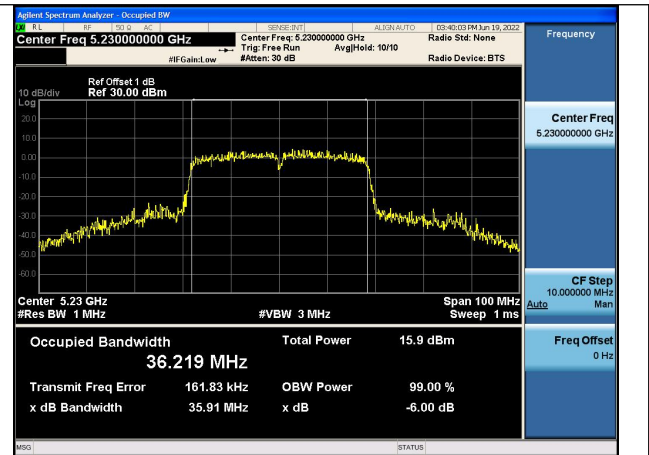


Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

Transmitter Power Spectral Density

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	5180MHz		5220MHz		5240MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0.10	2.245	0.10	2.042	0.10	2.051
802.11n HT20	Chain0	0.13	2.005	0.13	1.828	0.13	2.527

Test Mode	Antenna	5190MHz		---		5230MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0.25	-1.529	---	---	0.25	-1.546

Test Mode: 802.11a



Test Mode:802.11a 5180MHz Chain0



Test Mode:802.11a 5220MHz Chain0

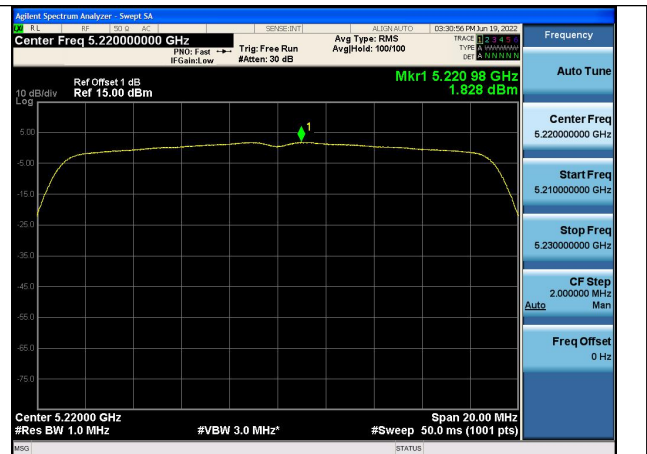


Test Mode:802.11a 5240MHz Chain0

Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5180MHz Chain0

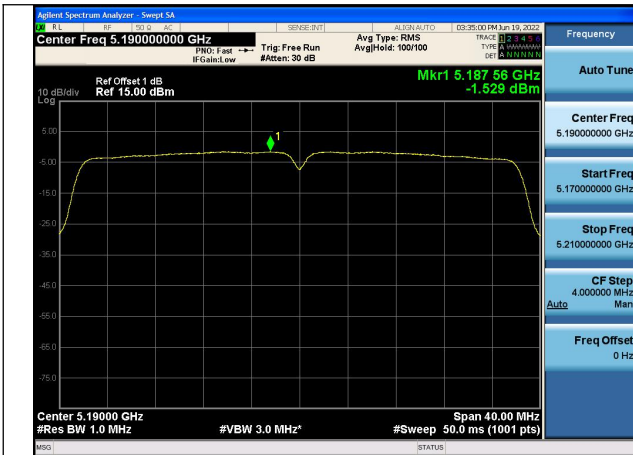


Test Mode:802.11n HT20 5220MHz Chain0



Test Mode:802.11n HT20 5240MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

APPENDIX A2 – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	97.67%	0.10
802.11n HT20	5745	97.13%	0.13
802.11n HT40	5755	94.46%	0.25

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

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	9.72	11.22
802.11a	NA	5785	Chain0	9.47	10.97
802.11a	NA	5825	Chain0	9.67	11.17
802.11n HT20	NA	5745	Chain0	9.52	11.02
802.11n HT20	NA	5785	Chain0	11.97	13.47
802.11n HT20	NA	5825	Chain0	9.03	10.53
802.11n HT40	NA	5755	Chain0	9.62	11.12
802.11n HT40	NA	5795	Chain0	9.76	11.26

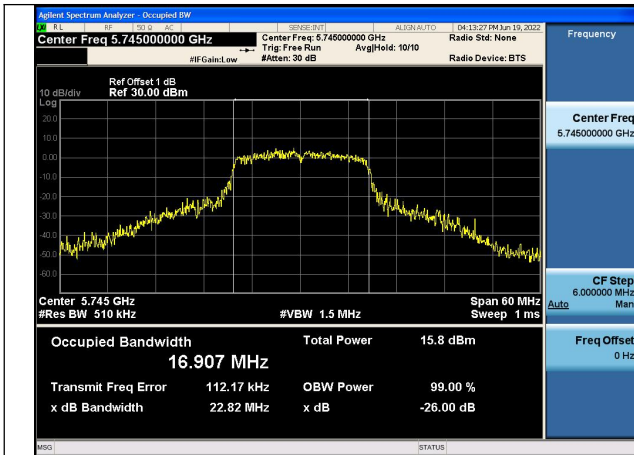
Emission Bandwidth

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

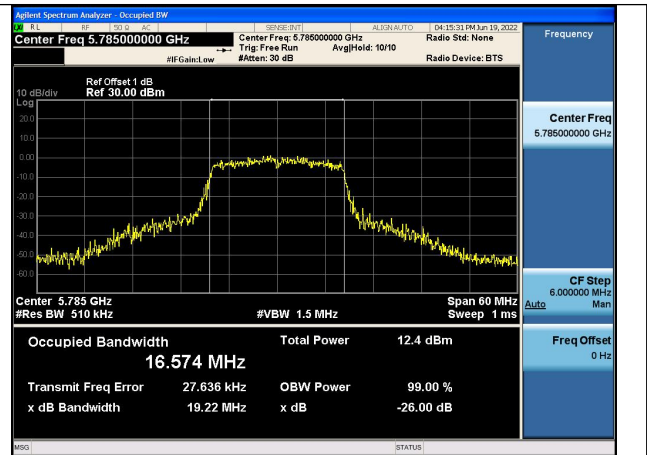
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.554	Channel No.562	Channel No.566
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	22.82	19.22	19.69
802.11n HT20	Chain0	19.70	26.32	19.79

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.556	---	Channel No.564
		5755MHz	---	5795MHz
802.11n HT40	Chain0	39.41	---	42.27

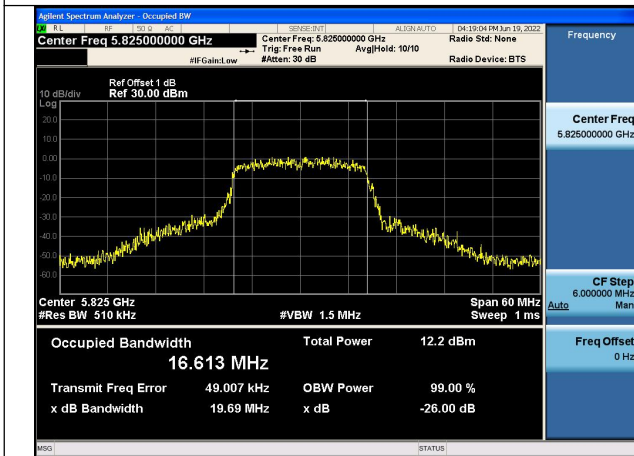
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

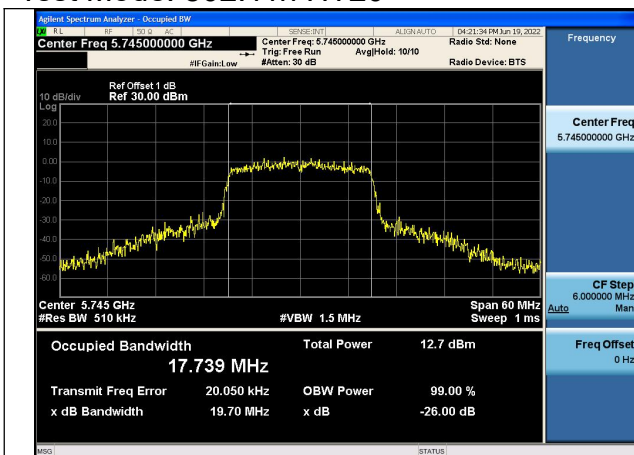


Test Mode:802.11a 5785MHz Chain0

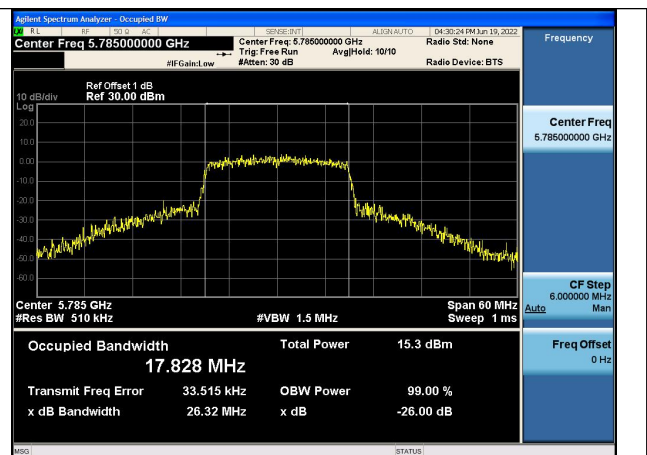


Test Mode:802.11a 5825MHz Chain0

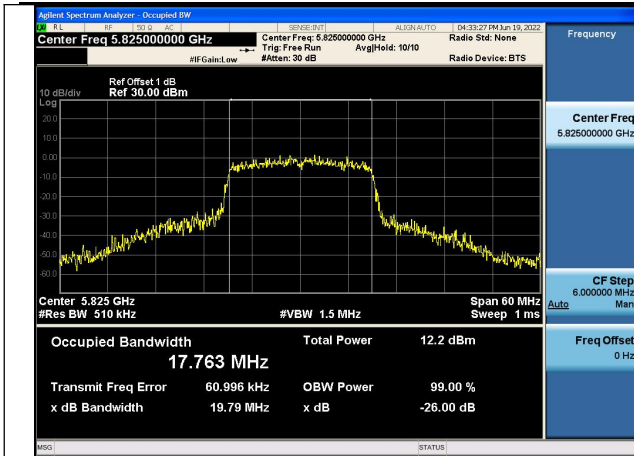
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

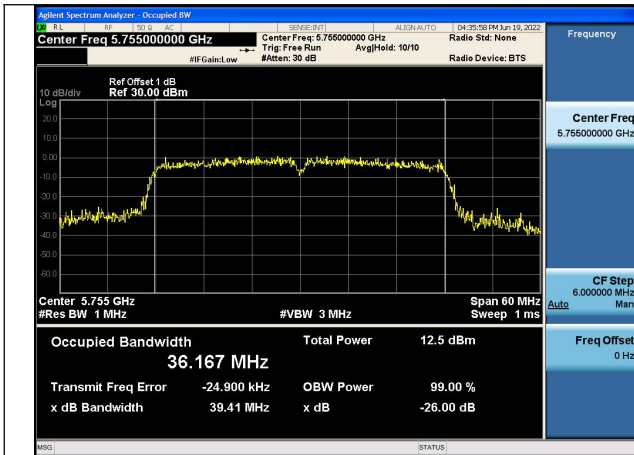


Test Mode:802.11n HT20 5785MHz Chain0

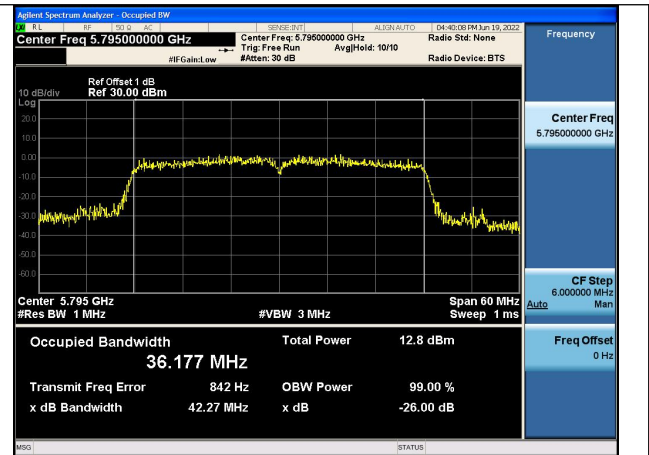


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

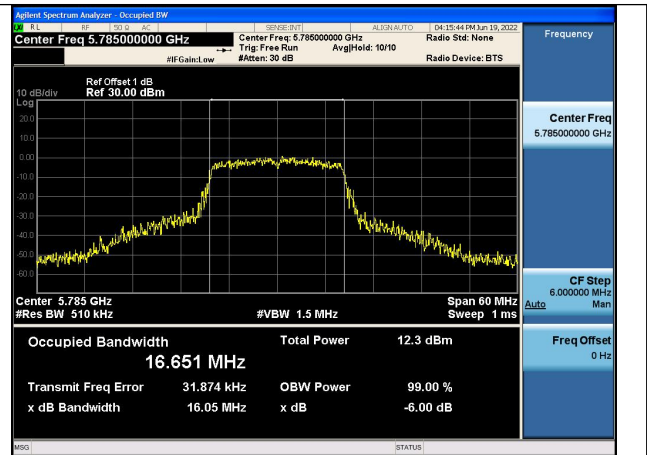
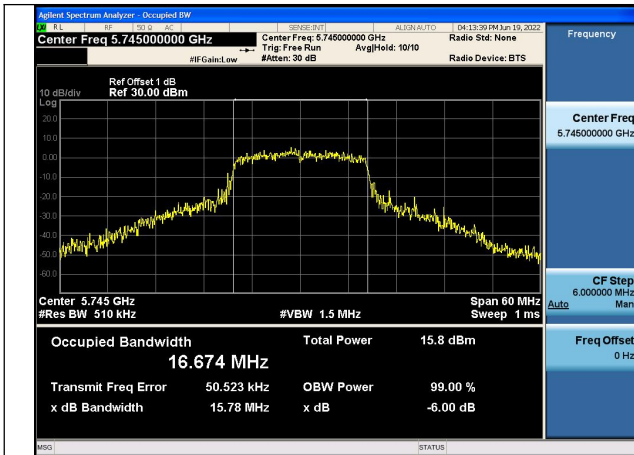
Occupied Bandwidth

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.554 5745MHz	Channel No.562 5785MHz	Channel No.566 5825MHz
802.11a	Chain0	16.674	16.651	16.460
802.11n HT20	Chain0	17.874	17.779	17.787

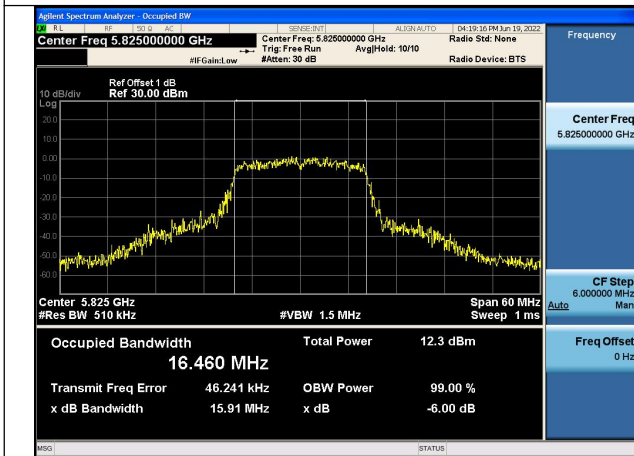
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.556 5755MHz	---	Channel No.564 5795MHz
802.11n HT40	Chain0	36.243	---	36.157

Test Mode: 802.11a



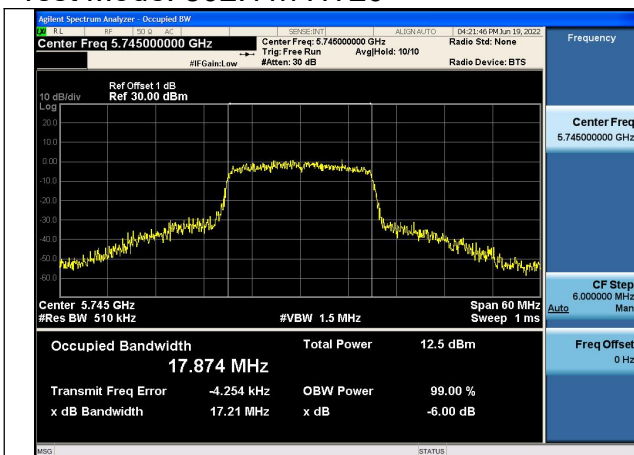
Test Mode:802.11a 5745MHz Chain0

Test Mode:802.11a 5785MHz Chain0

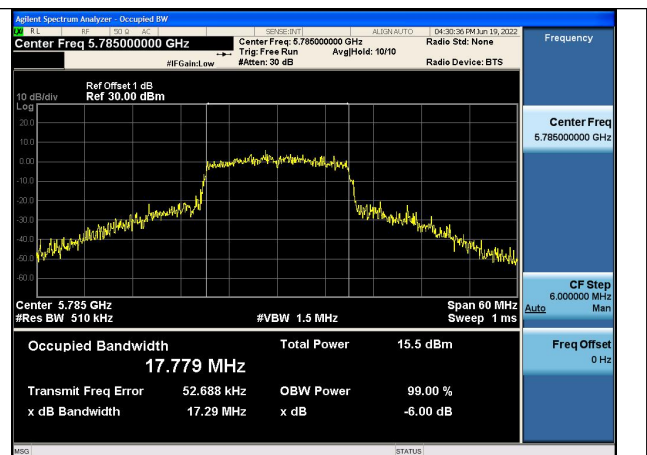


Test Mode:802.11a 5825MHz Chain0

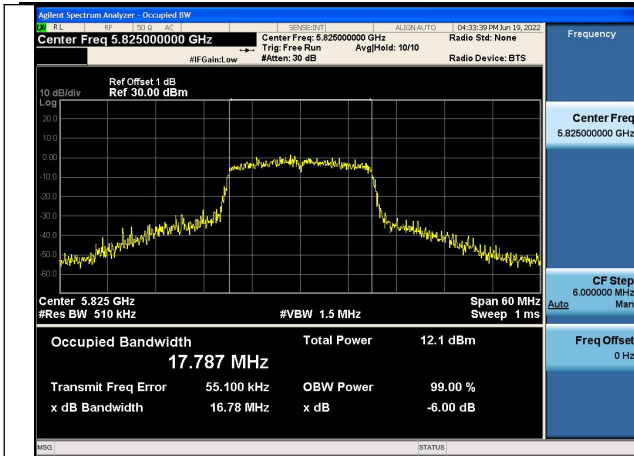
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

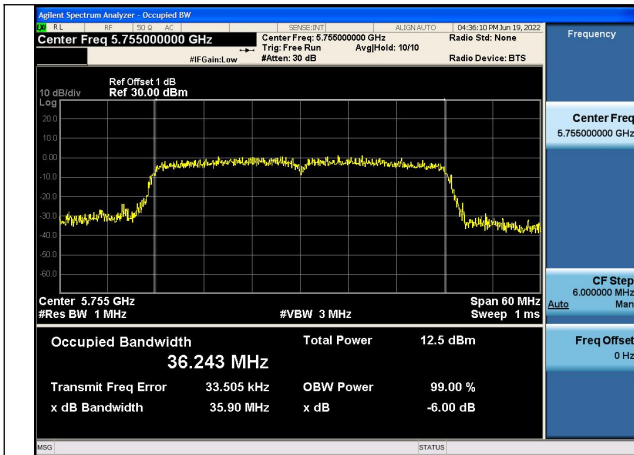


Test Mode:802.11n HT20 5785MHz Chain0

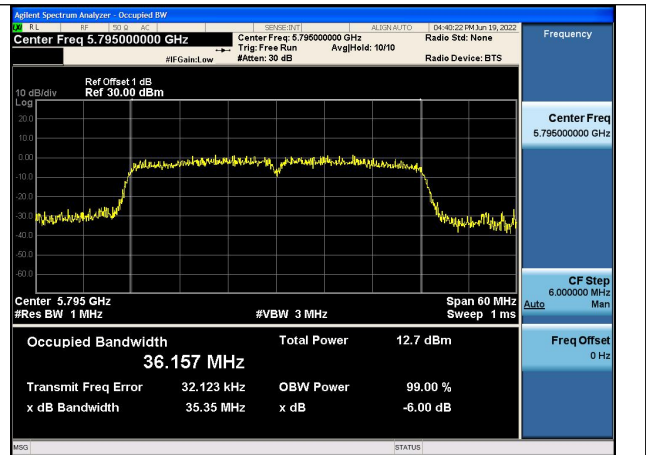


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

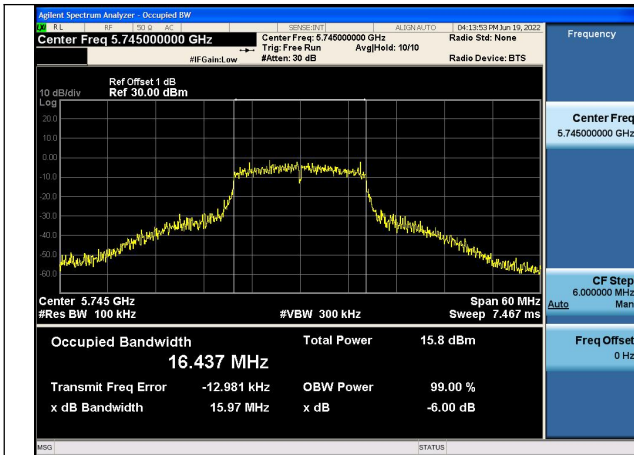
6dB Bandwidth

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

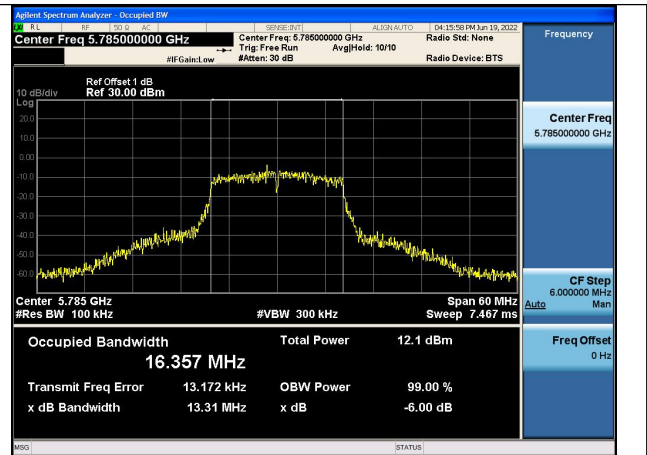
Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.554 5745MHz	Channel No.562 5785MHz	Channel No.566 5825MHz
802.11a	Chain0	15.97	13.31	14.40
802.11n HT20	Chain0	17.54	17.32	16.36

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.556 5755MHz	---	Channel No.564 5795MHz
802.11n HT40	Chain0	32.18	---	35.11

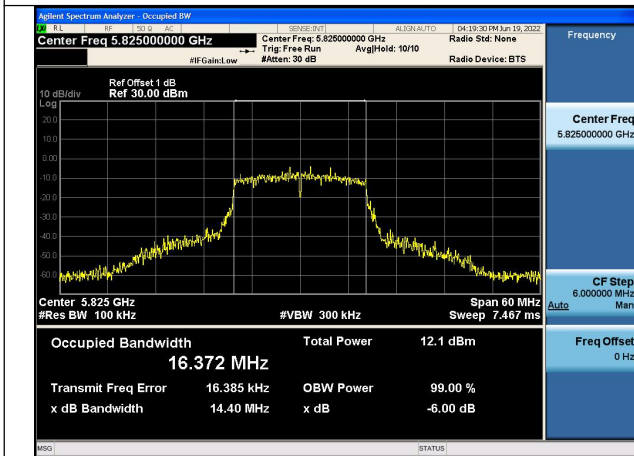
Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

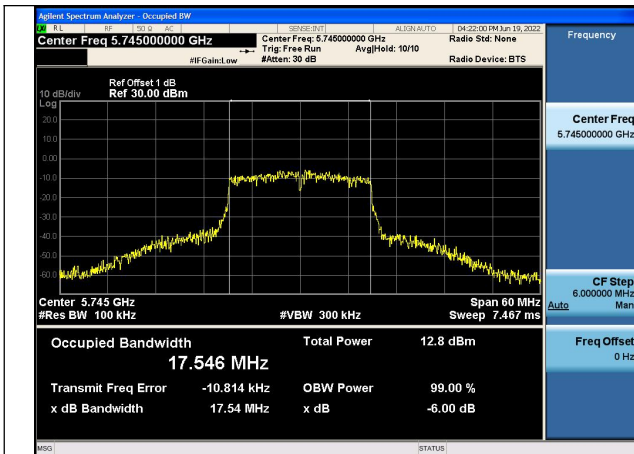


Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0

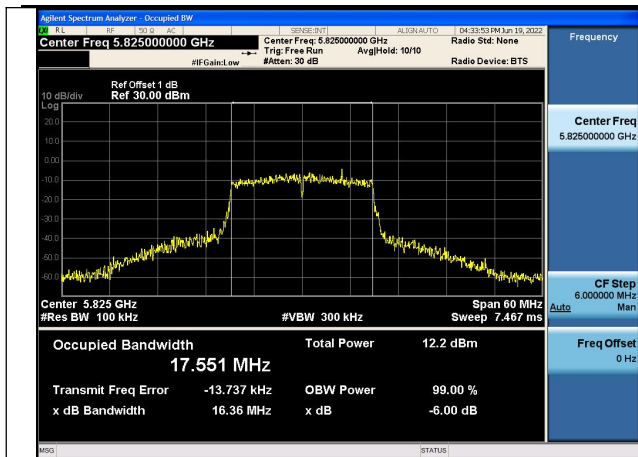
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0

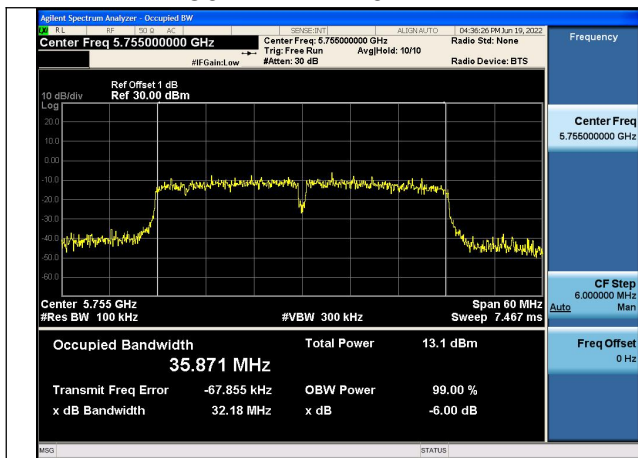


Test Mode:802.11n HT20 5785MHz Chain0

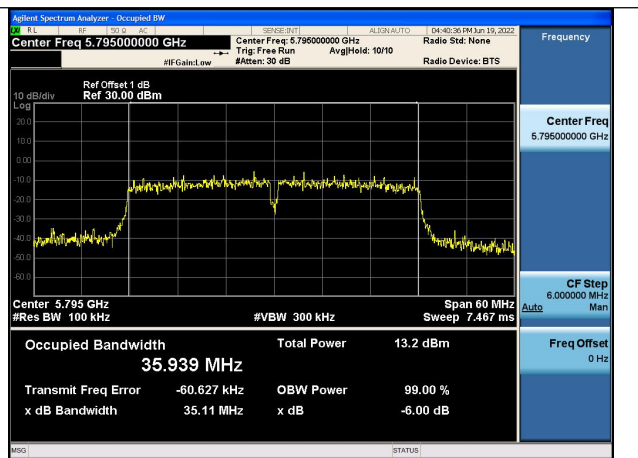


Test Mode:802.11n HT20 5825MHz Chain0

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0

Transmitter Power Spectral Density

Offset 1dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	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	0.10	0.592	0.10	-2.967	0.10	-3.225
802.11n HT20	Chain0	0.13	-3.140	0.13	-0.455	0.13	-3.537

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

Test Mode	Antenna	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	0.25	-6.651	---	---	0.25	-6.343

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