

10.3.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary	Secondary
Low	5500	16.452	16.565
Mid	5580	16.513	16.304
High	5700	16.427	16.395
Straddle	5720	13.321	13.276
Worst		16.565	

10.3.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5500	17.650	17.611
Mid	5580	17.745	17.688
High	5700	17.724	17.637
Straddle	5720	13.818	13.853
Worst		17.745	

10.3.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5510	35.984	36.247
Mid	5550	36.079	36.219
High	5670	36.149	35.880
Straddle	5710	33.080	33.085
Worst		36.247	

10.3.12. 802.11ac VHT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5530	75.243	75.323
High	5610	75.373	75.644
Straddle	5690	72.477	72.883
Worst		75.644	

10.3.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary	Secondary
Straddle	5720	3.230	3.275
Low	5745	16.458	16.488
Mid	5785	16.427	16.477
High	5825	16.373	16.386
Worst		16.488	

10.3.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Straddle	5720	3.818	3.852
Low	5745	17.650	17.611
Mid	5785	17.745	17.688
High	5825	17.724	17.637
Worst		17.745	

10.3.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

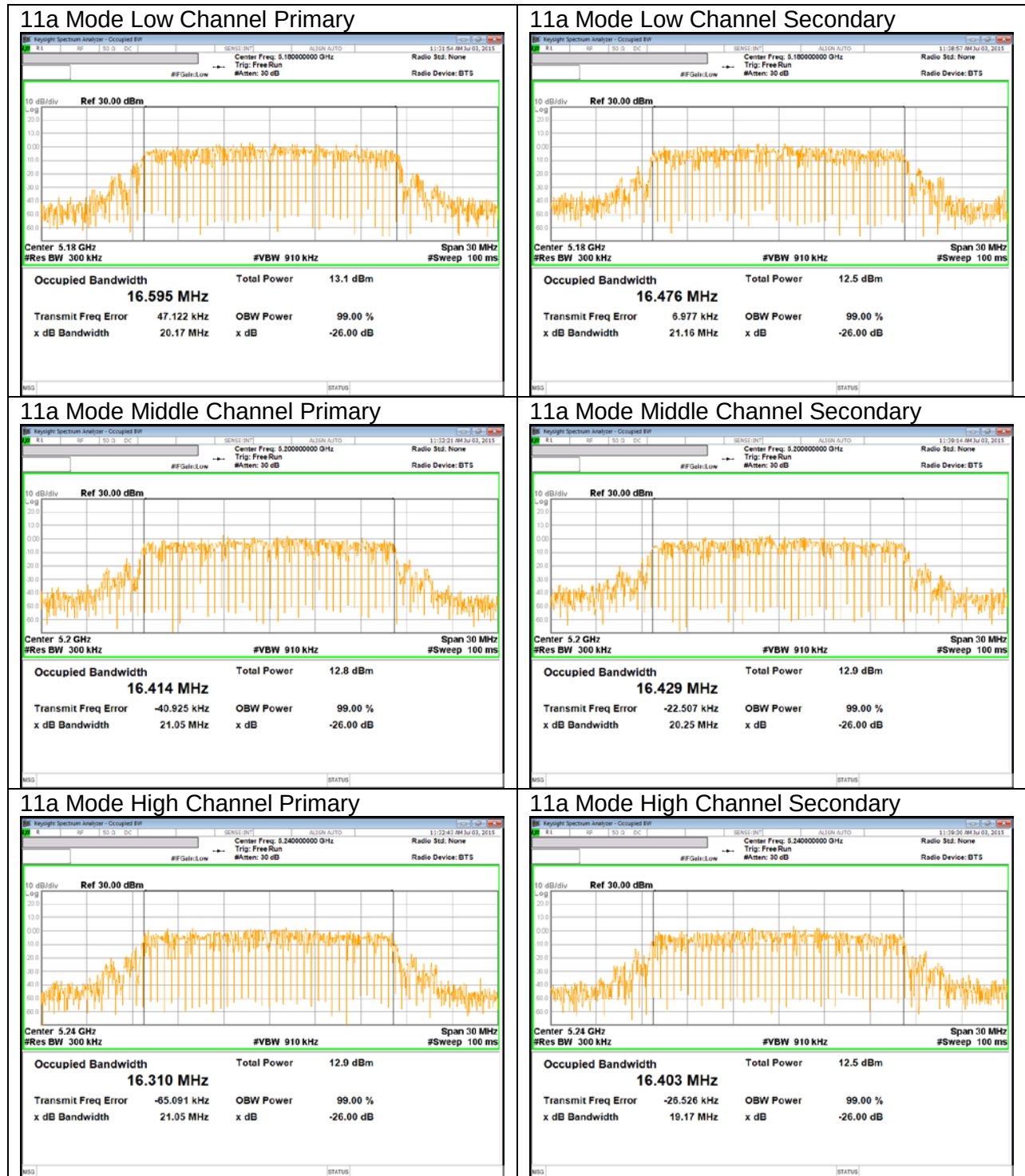
Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Straddle	5710	3.080	3.085
Low	5755	36.115	36.035
High	5795	36.200	36.265
Worst		36.265	

10.3.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

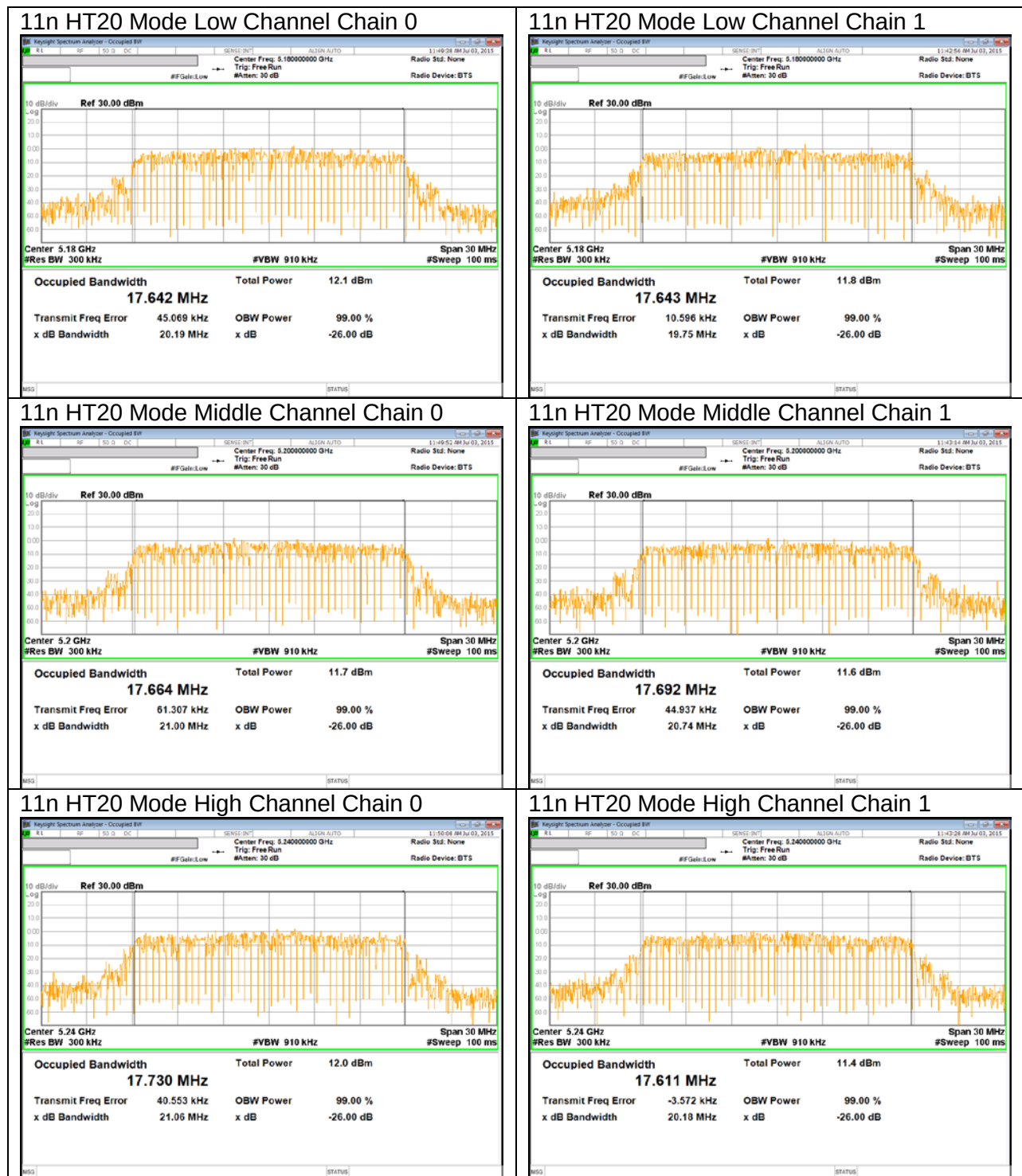
Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Straddle	5690	2.476	2.882
Middle	5775	75.248	75.378
Worst		75.378	

10.3.17. 99% BANDWIDTH PLOTS

UNII 5.2 GHz IEEE 802.11a mode



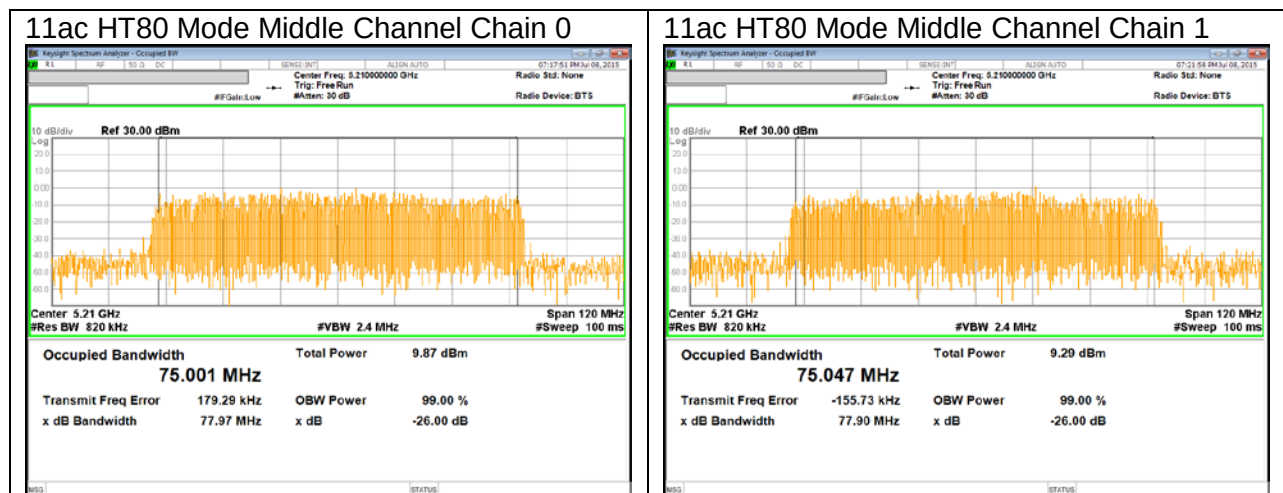
UNII 5.2 GHz IEEE 802.11n HT20 mode



UNII 5.2 GHz IEEE 802.11n HT40 mode

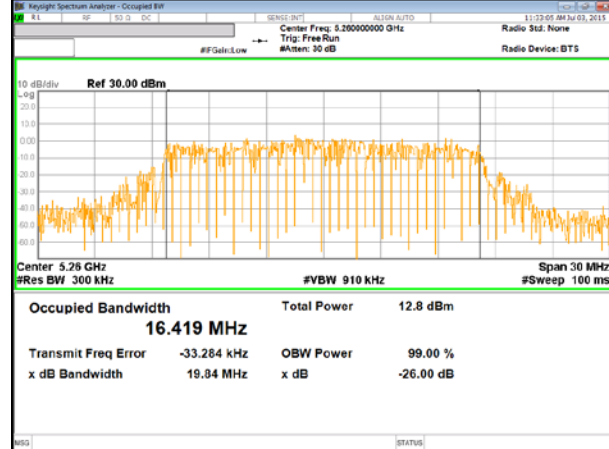


UNII 5.2 GHz IEEE 802.11ac VHT80 mode

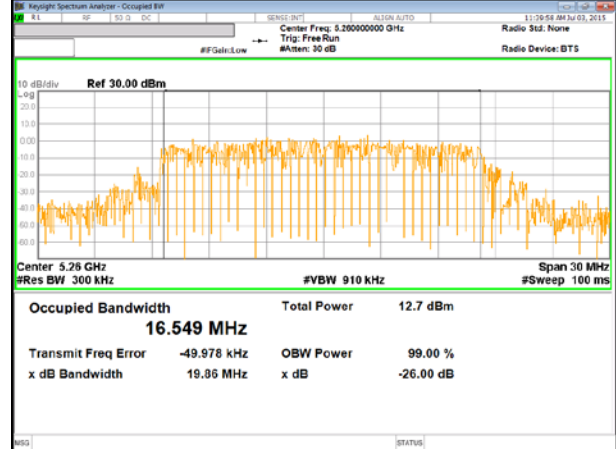


UNII 5.3 GHz IEEE 802.11a mode

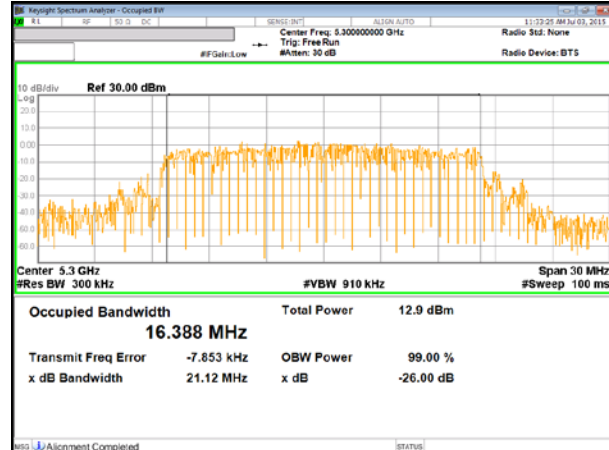
11a Mode Low Channel Primary



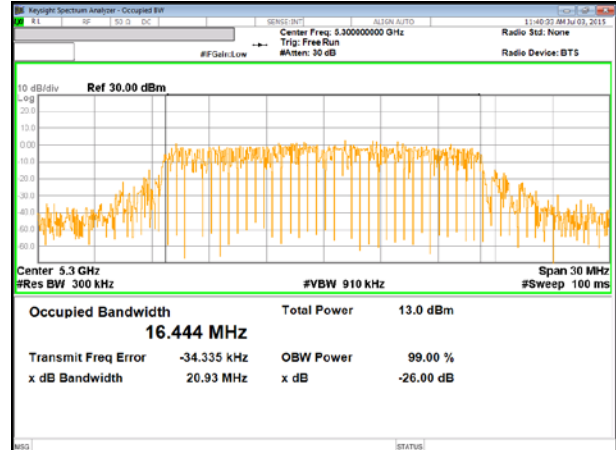
11a Mode Low Channel Secondary



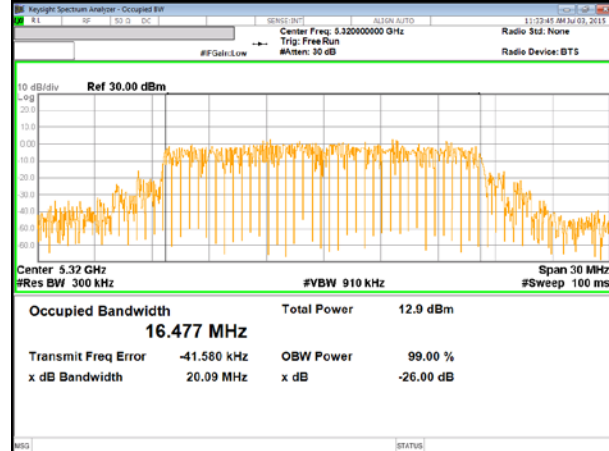
11a Mode Middle Channel Primary



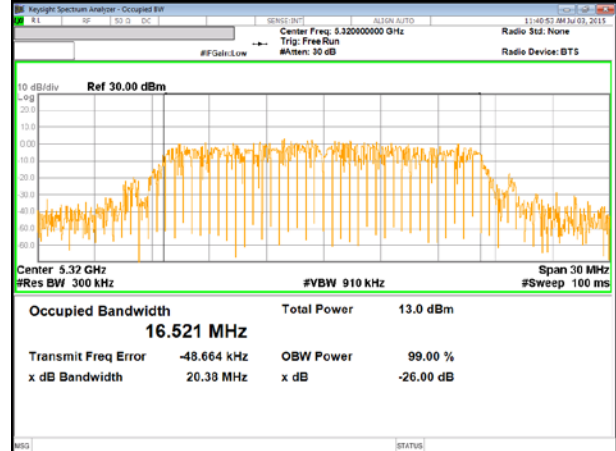
11a Mode Middle Channel Secondary



11a Mode High Channel Primary

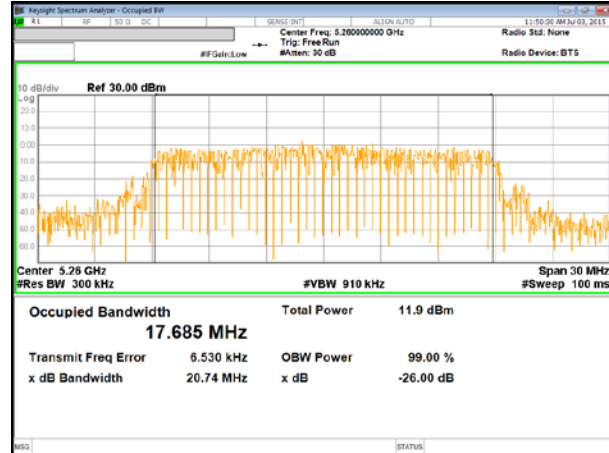


11a Mode High Channel Secondary

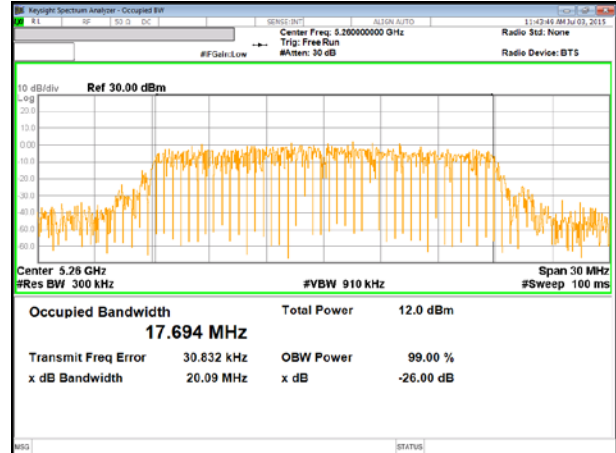


UNII 5.3 GHz IEEE 802.11n HT20 mode

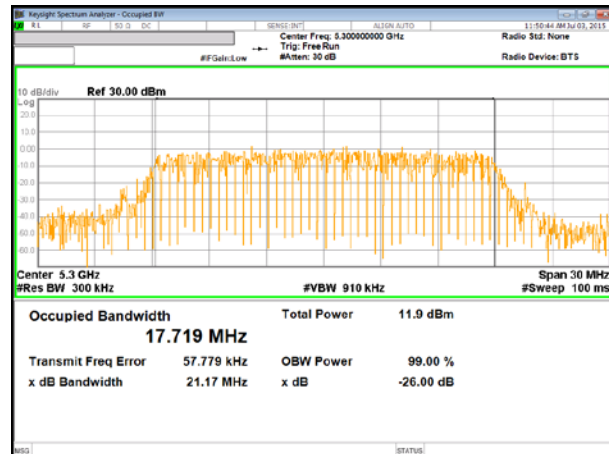
11n HT20 Mode Low Channel Chain 0



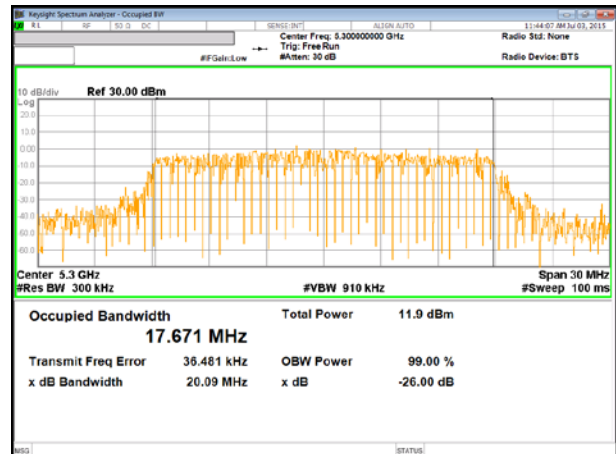
11n HT20 Mode Low Channel Chain 1



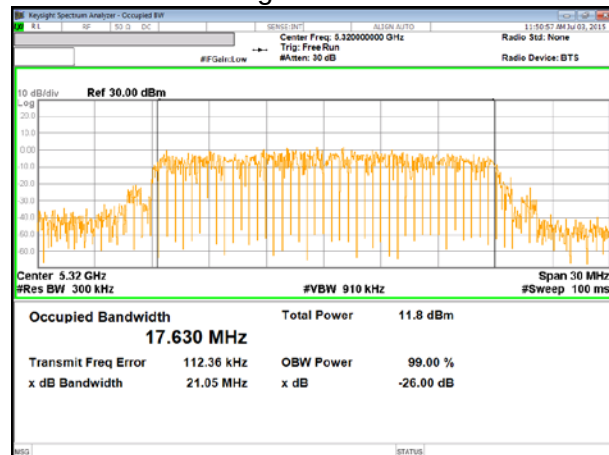
11n HT20 Mode Middle Channel Chain 0



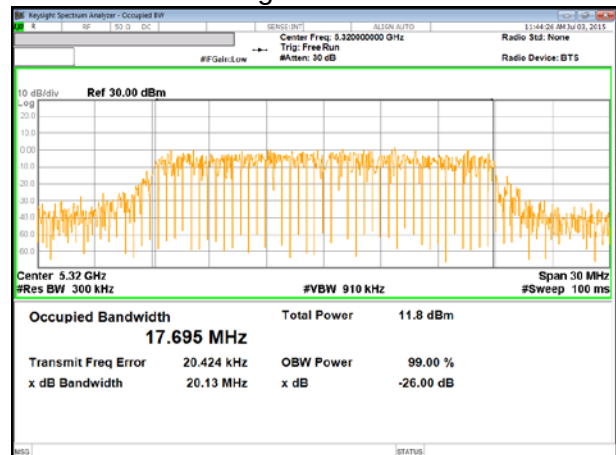
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11n HT20 Mode High Channel Chain 0



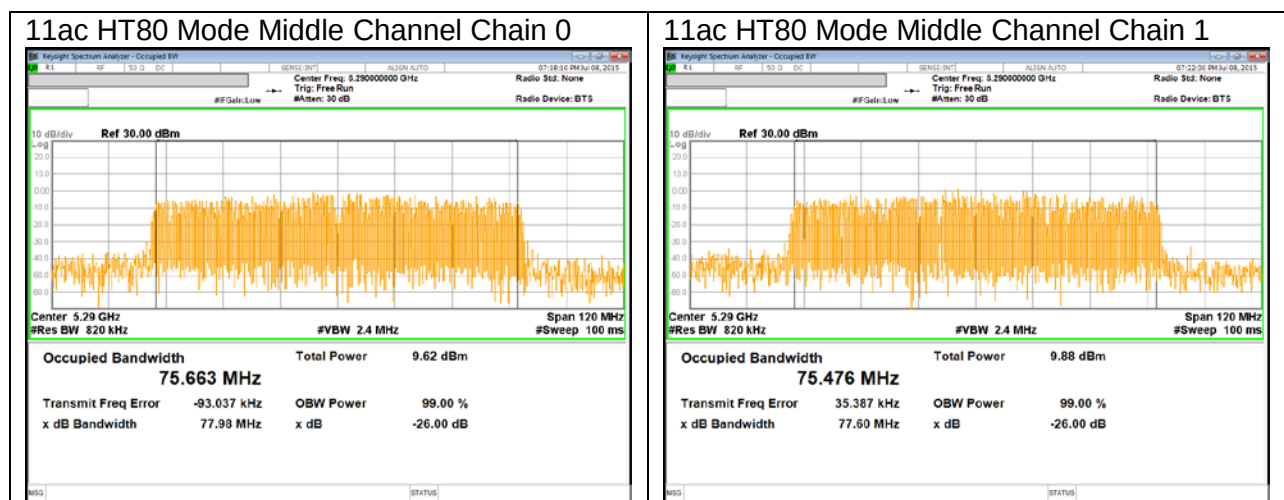
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UNII 5.3 GHz IEEE 802.11n HT40 mode

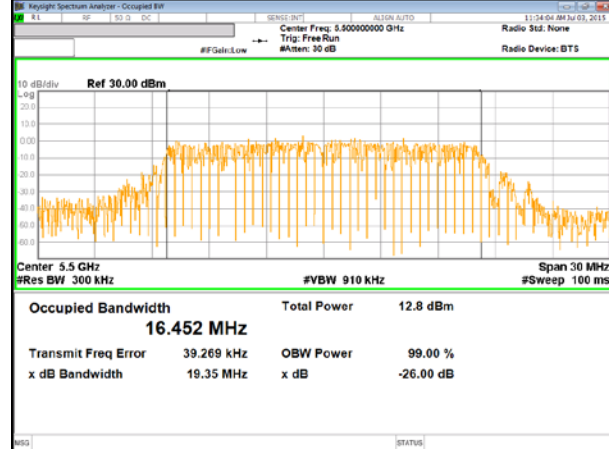


UNII 5.3 GHz IEEE 802.11ac VHT80 mode

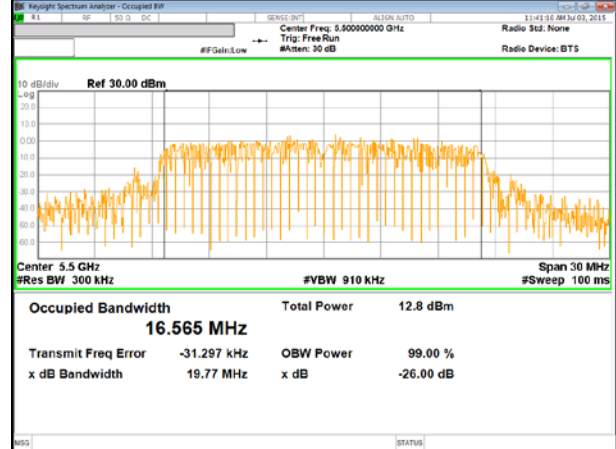


UNII 5.5 GHz IEEE 802.11a mode

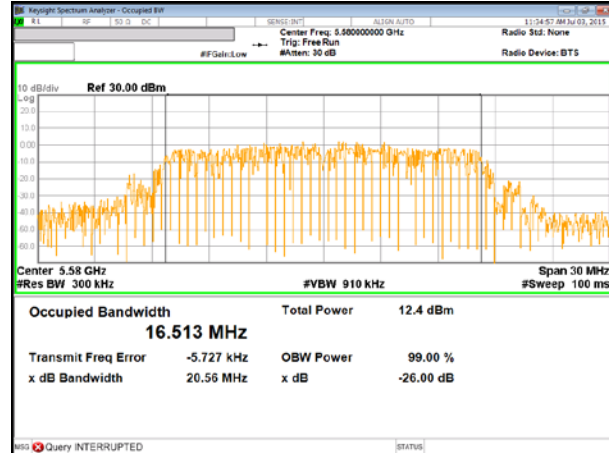
11a Mode Low Channel Primary



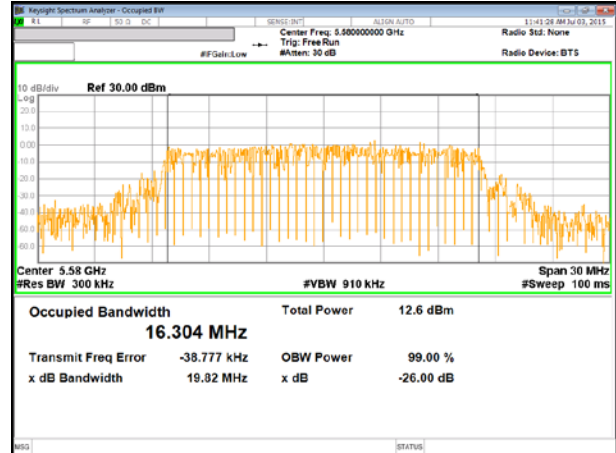
11a Mode Low Channel Secondary



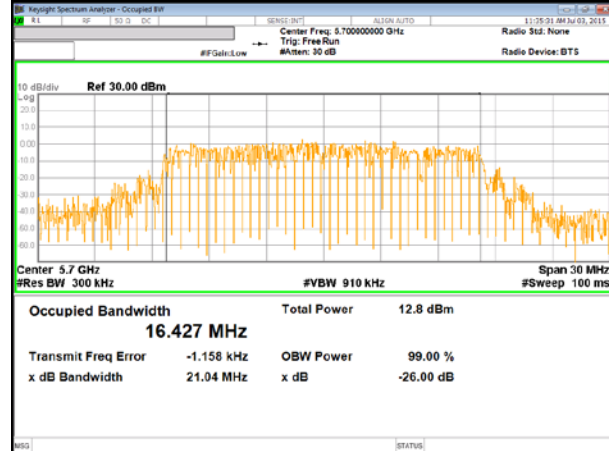
11a Mode Middle Channel Primary



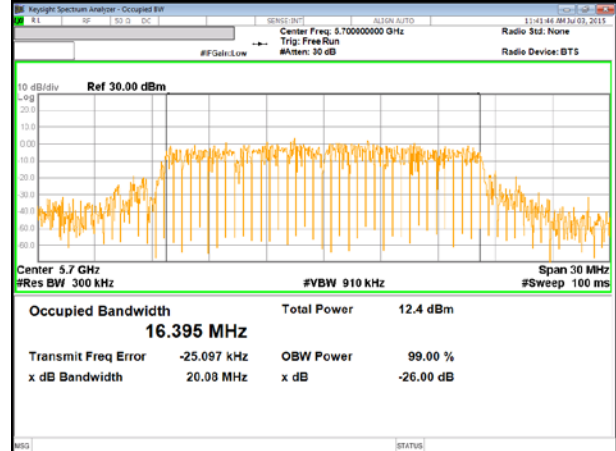
11a Mode Middle Channel Secondary



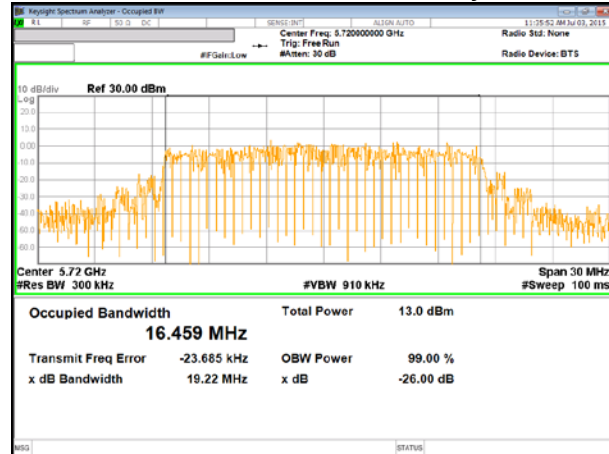
11a Mode High Channel Primary



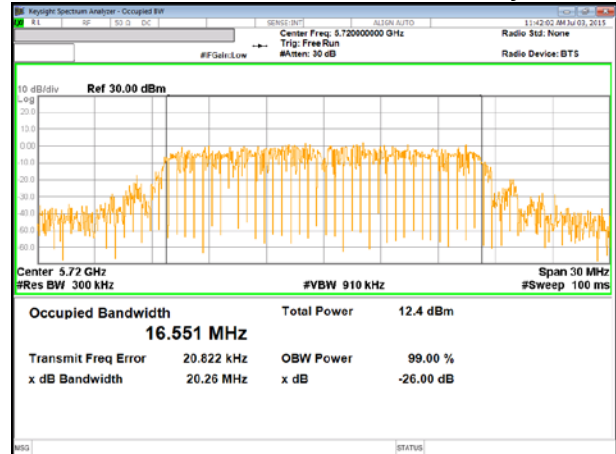
11a Mode High Channel Secondary



11a Mode Straddle Channel Primary

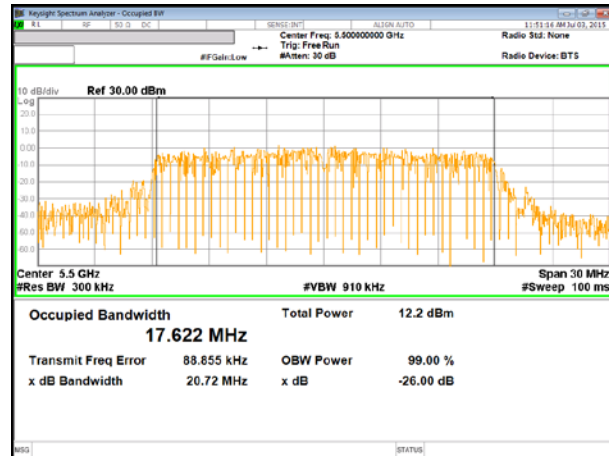


11a Mode Straddle Channel Secondary

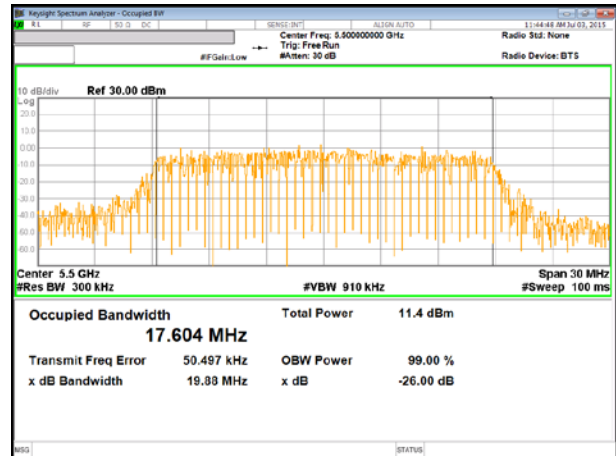


UNII 5.5 GHz IEEE 802.11n HT20 mode

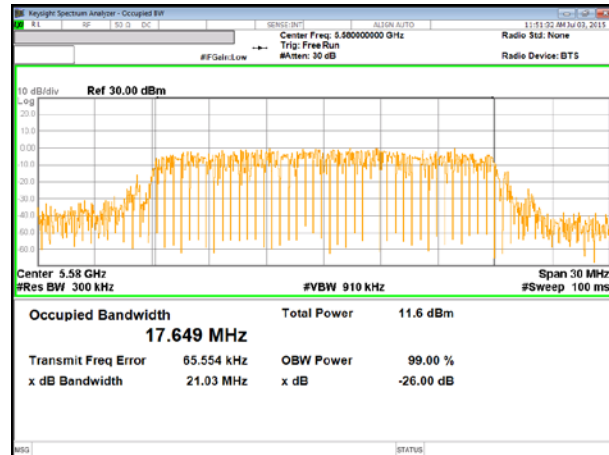
11n HT20 Mode Low Channel Chain 0



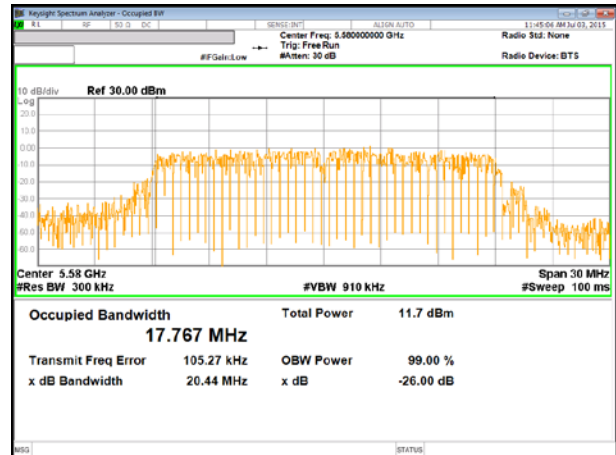
11n HT20 Mode Low Channel Chain 1



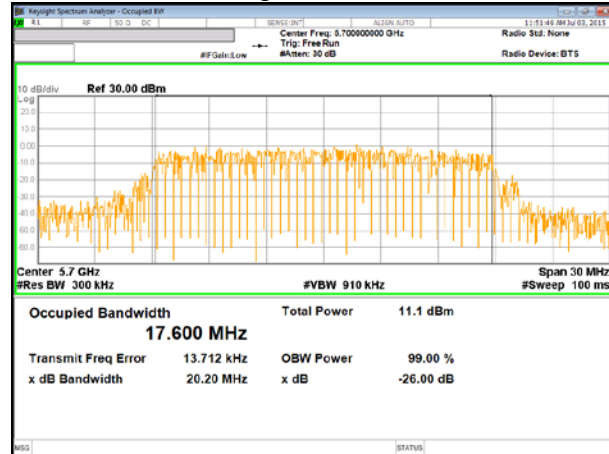
11n HT20 Mode Middle Channel Chain 0



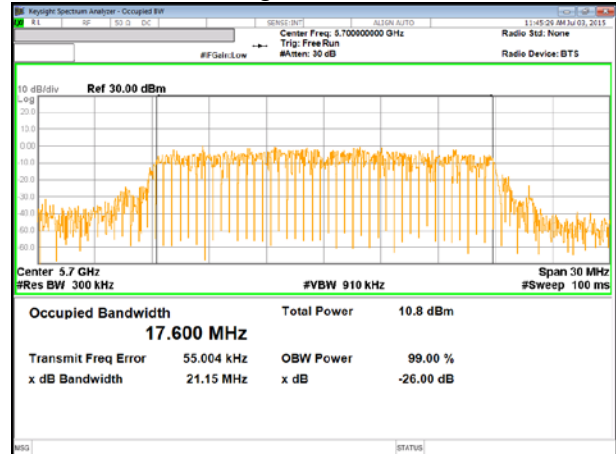
11n HT20 Mode Middle Channel Chain 1



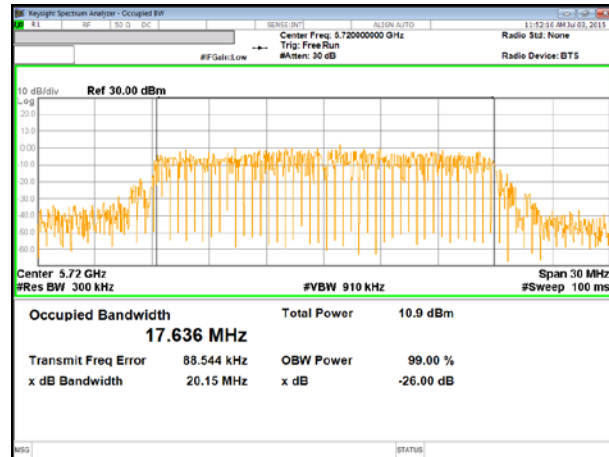
11n HT20 Mode High Channel Chain 0



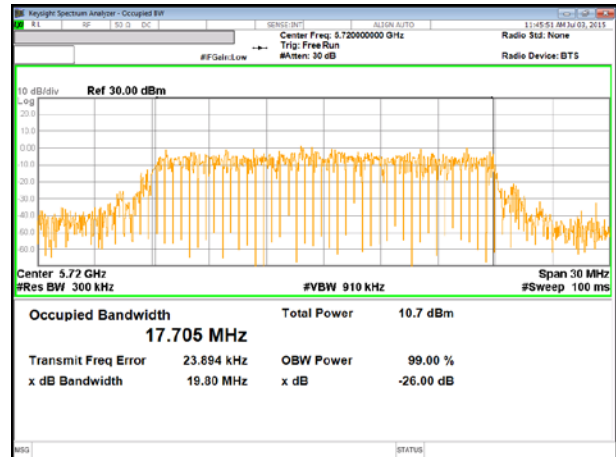
11n HT20 Mode High Channel Chain 1



11n HT20 Mode Straddle Channel Chain 0

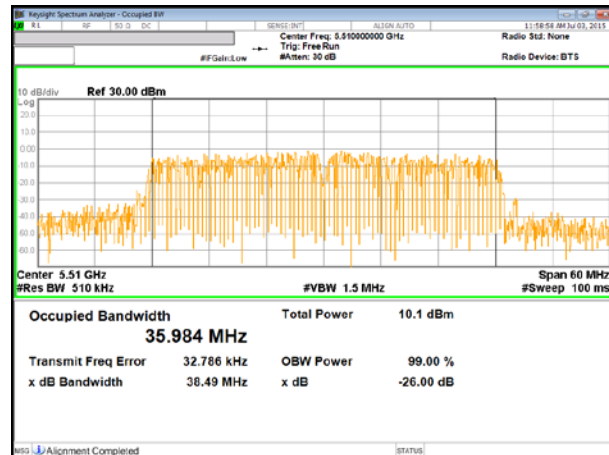


11n HT20 Mode Straddle Channel Chain 1

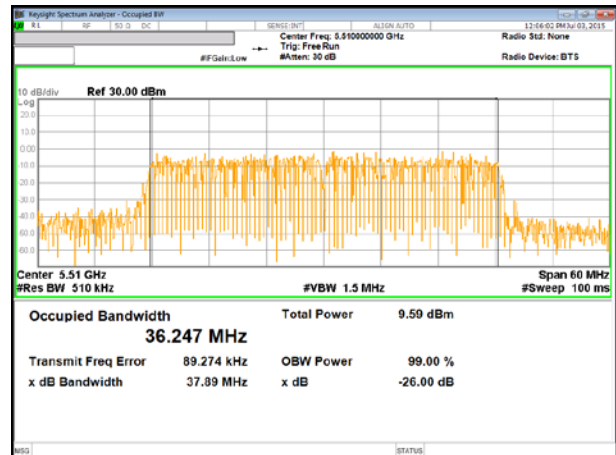


UNII 5.5 GHz IEEE 802.11n HT40 mode

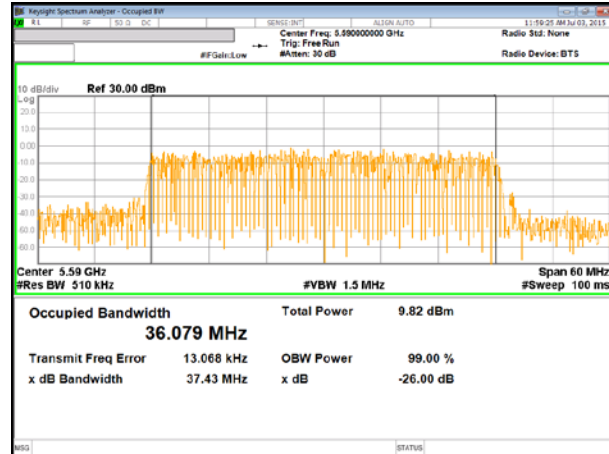
11n HT40 Mode Low Channel Chain 0



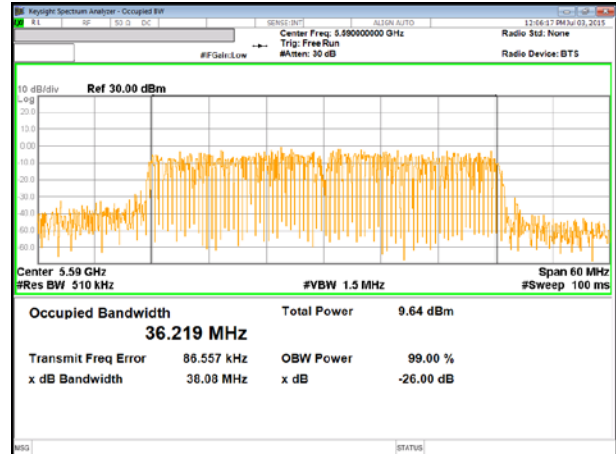
11n HT40 Mode Low Channel Chain 1



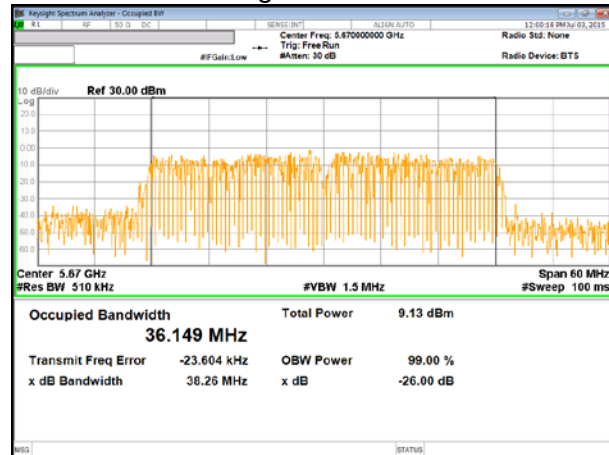
11n HT40 Mode Middle Channel Chain 0



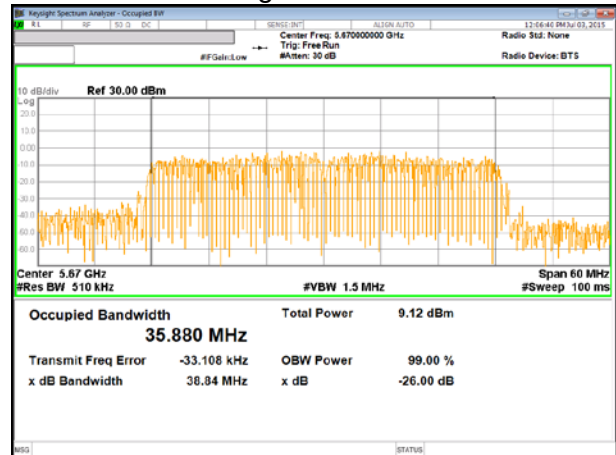
11n HT40 Mode Middle Channel Chain 1



11n HT40 Mode High Channel Chain 0



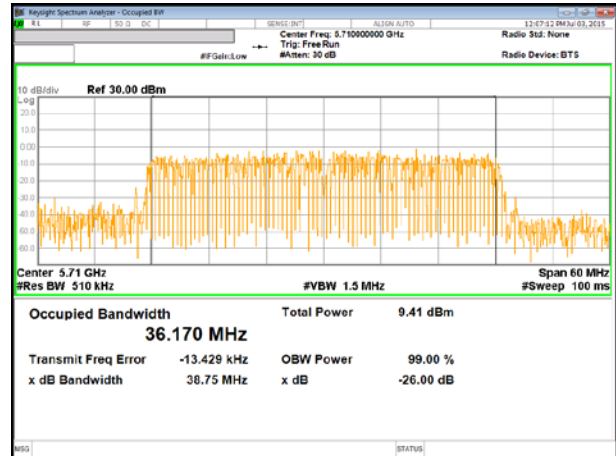
11n HT40 Mode High Channel Chain 1



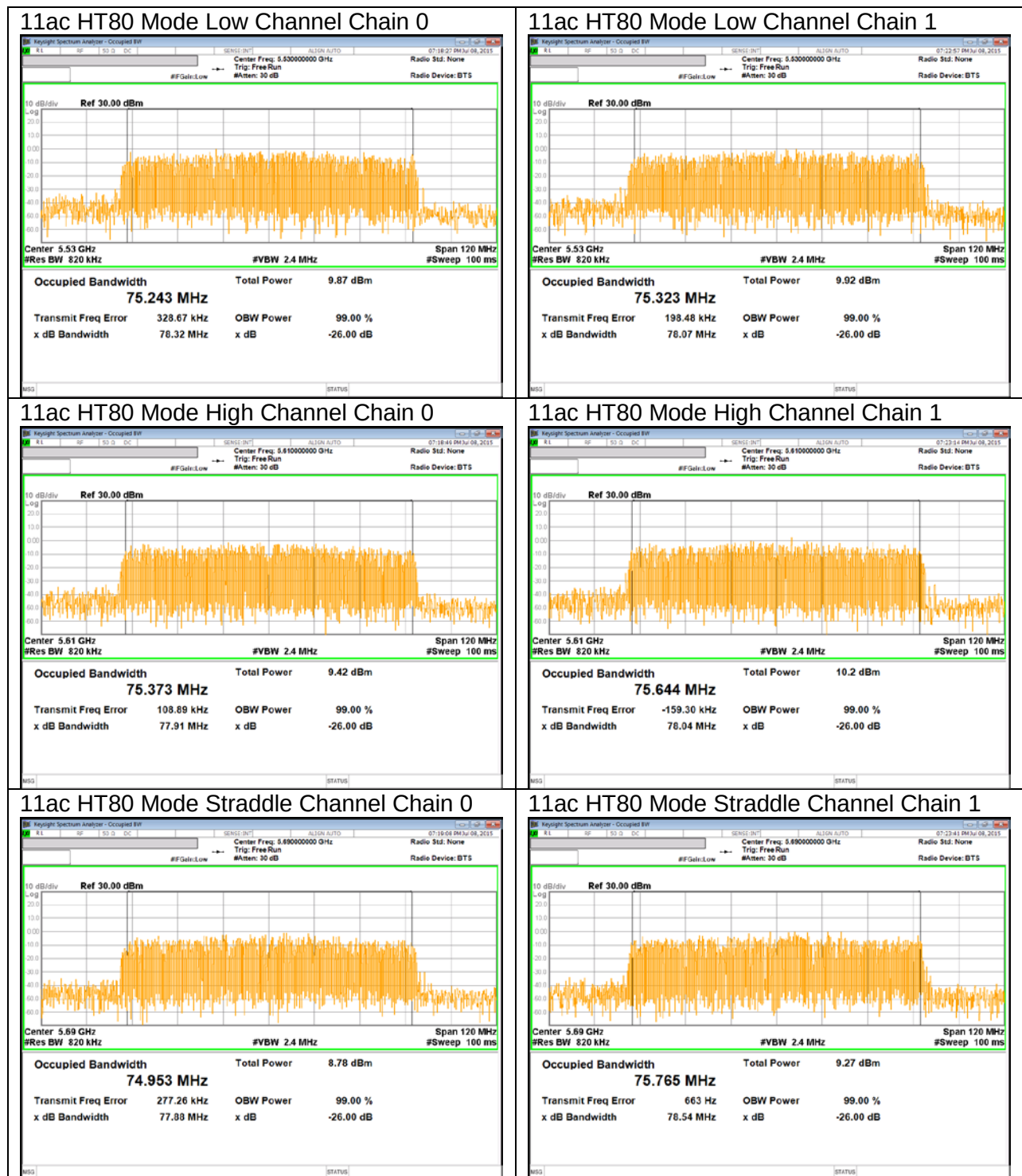
11n HT40 Mode Straddle Channel Chain 0



11n HT40 Mode Straddle Channel Chain 1

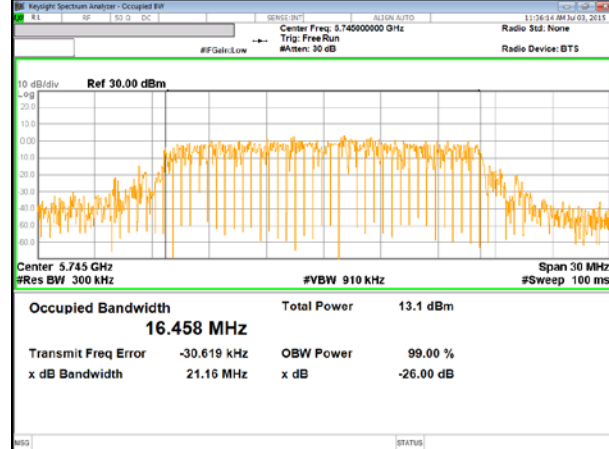


UNII 5.5 GHz IEEE 802.11ac VHT80 mode

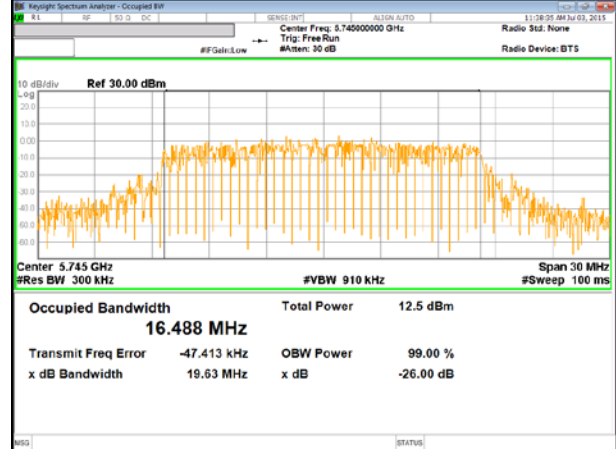


UNII 5.8 GHz IEEE 802.11a mode

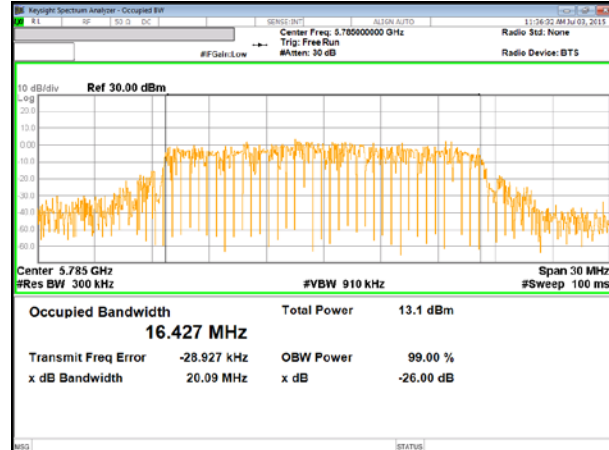
11a Mode Low Channel Primary



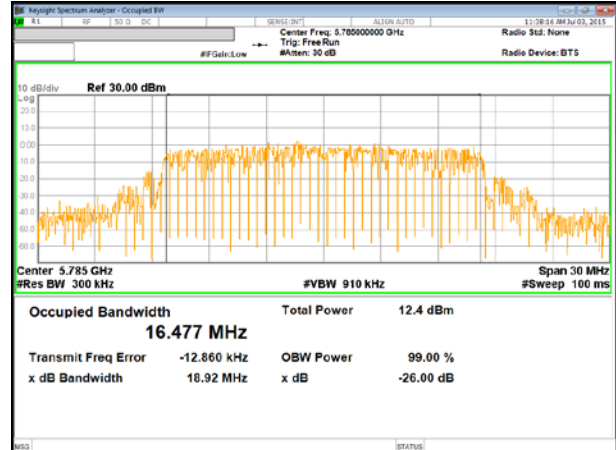
11a Mode Low Channel Secondary



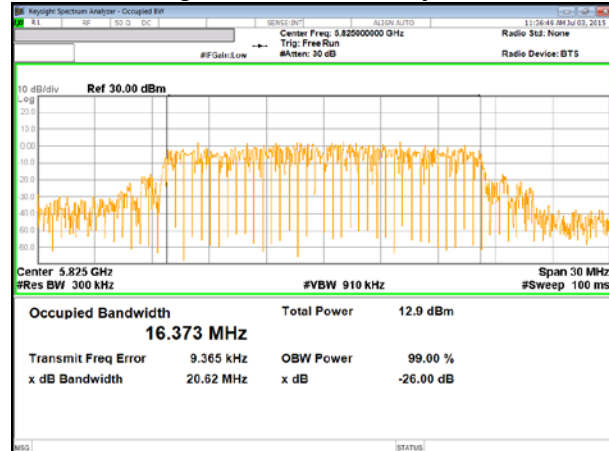
11a Mode Middle Channel Primary



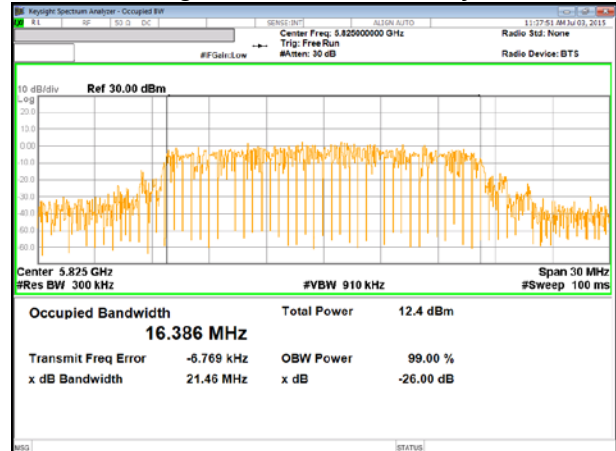
11a Mode Middle Channel Secondary



11a Mode High Channel Primary

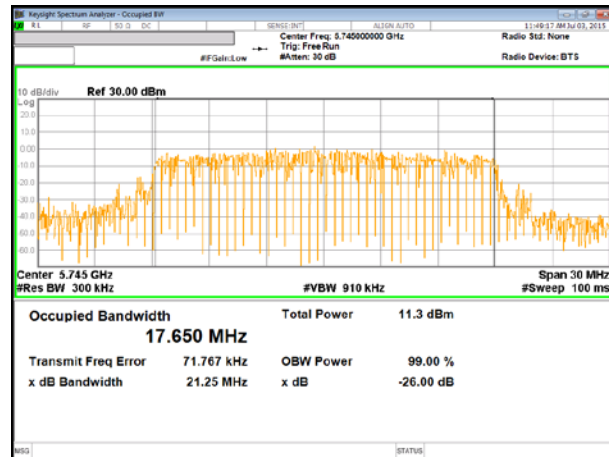


11a Mode High Channel Secondary

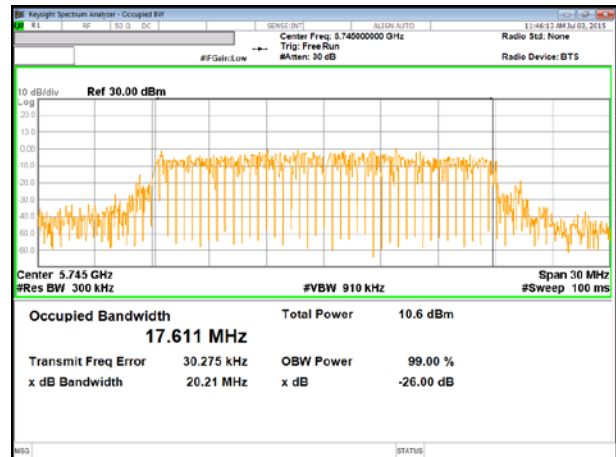


UNII 5.8 GHz IEEE 802.11n HT20 mode

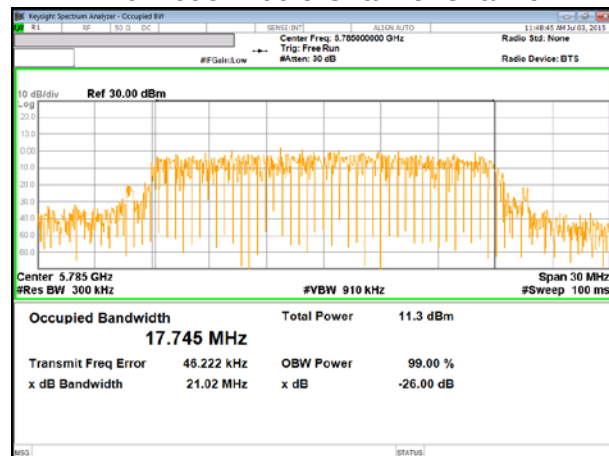
11n HT20 Mode Low Channel Chain 0



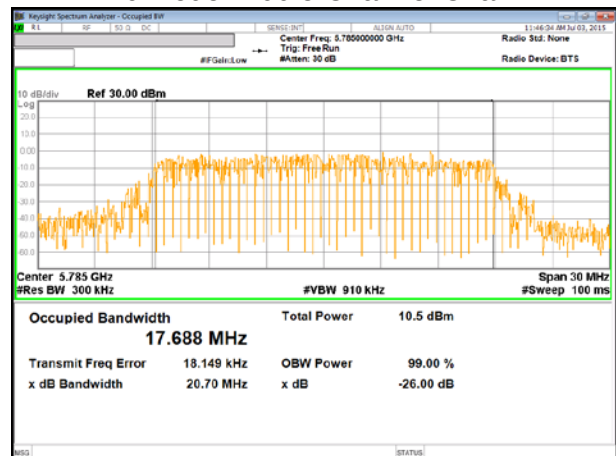
11n HT20 Mode Low Channel Chain 1



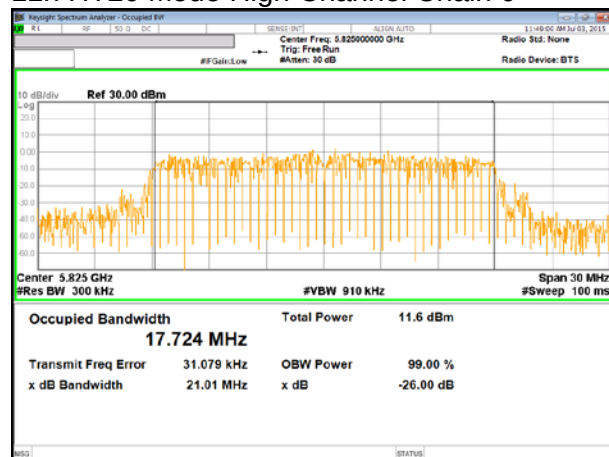
11n HT20 Mode Middle Channel Chain 0



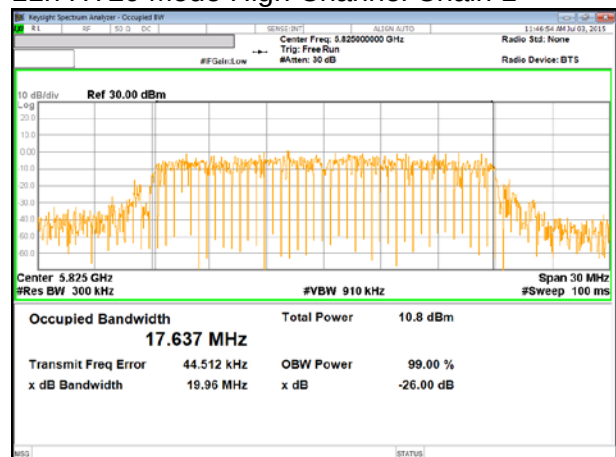
11n HT20 Mode Middle Channel Chain 1



11n HT20 Mode High Channel Chain 0



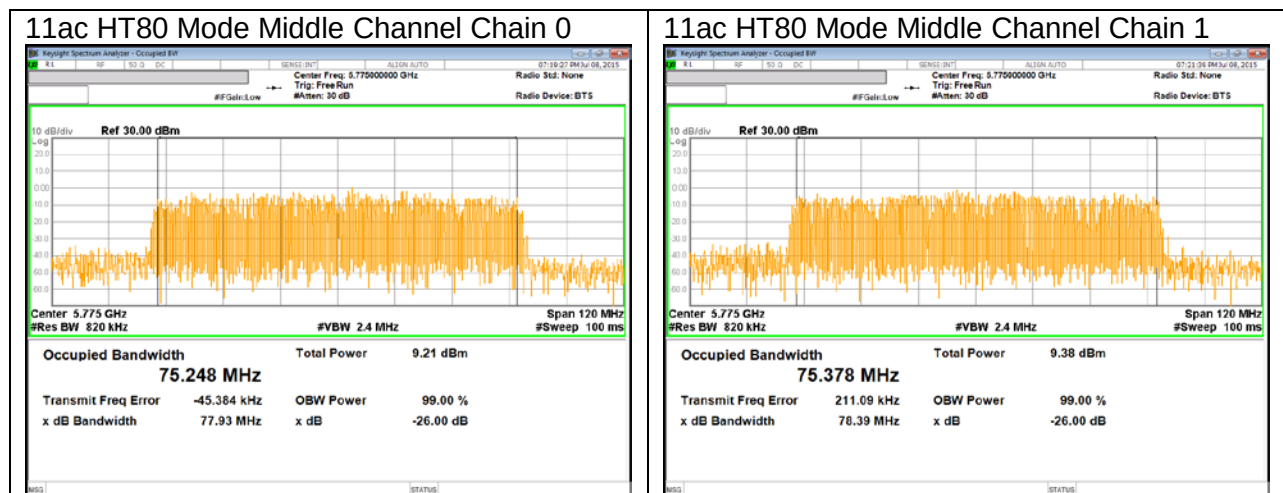
11n HT20 Mode High Channel Chain 1



UNII 5.8 GHz IEEE 802.11n HT40 mode



UNII 5.8 GHz IEEE 802.11ac VHT80 mode



10.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.29 dB (including 10 dB pad and 0.29 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

10.4.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Primary	Secondary
Low	5180	12.53	13.00
Mid	5200	12.53	13.03
High	5240	12.35	13.31
Worst		13.31	

10.4.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5180	11.58	12.06
Mid	5200	11.39	12.15
High	5240	11.46	12.14
Worst		12.15	

10.4.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5190	10.37	10.57
High	5230	10.63	10.54
Worst		10.63	

10.4.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5210	9.75	9.94
Worst		9.94	

10.4.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Primary	Secondary
Low	5260	12.62	12.25
Mid	5300	12.04	12.31
High	5320	11.84	12.30
Worst		12.62	

10.4.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5260	11.68	12.17
Mid	5300	11.51	11.99
High	5320	11.39	12.04
Worst		12.17	

10.4.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5270	10.78	10.43
High	5310	10.28	10.41
Worst		10.78	

10.4.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5290	9.64	10.01
Worst		10.01	

10.4.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Primary	Secondary
Low	5500	11.86	13.36
Mid	5580	11.53	13.37
High	5700	11.95	13.27
Straddle	5720	12.16	13.31
Worst		13.37	

10.4.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5500	11.25	12.39
Mid	5580	10.51	11.50
High	5700	10.35	11.17
Straddle	5720	10.32	11.12
Worst		12.39	

10.4.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5510	10.10	10.65
Mid	5550	9.46	10.04
High	5670	9.31	10.46
Straddle	5710	9.57	10.42
Worst		10.65	

10.4.12. 802.11ac VHT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5530	8.94	9.62
High	5610	8.39	9.31
Straddle	5690	8.42	8.81
Worst		9.62	

10.4.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Primary	Secondary
Low	5745	11.77	13.23
Mid	5785	11.61	13.17
High	5825	12.46	12.97
Worst		13.23	

10.4.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5745	10.65	11.08
Mid	5785	10.77	11.06
High	5825	10.48	10.85
Worst		11.08	

10.4.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5755	10.97	10.87
High	5795	10.71	10.77
Worst		10.97	

10.4.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5775	8.82	9.66
Worst		9.66	

10.5. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1) (2) (3)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

DIRECTIONAL ANTENNA GAIN

For Power: The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

For PSD: The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

5 GHz

Frequency Band [MHz]	Chain 0 Antenna Gain [dBi]	Chain 1 Antenna Gain [dBi]	Uncorrelated Directional Gain [dBi]	Correlated Chains Directional Gain [dBi]
5150 - 5250	2.58	-3.05	0.62	3.22
5250 - 5350	2.58	-3.08	0.61	3.21
5470 - 5725	2.51	-3.63	0.45	2.98
5725 - 5850	0.30	-3.63	-1.23	1.57

RESULTS

10.5.1. 802.11a MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5180	20.96	16.60	0.62	3.22
Mid	5200	21.16	16.43	0.62	3.22
High	5240	21.28	16.40	0.62	3.22

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	24.00	22.20	23.38	23.38	11.00	10.00	10.00
Mid	5200	24.00	22.16	23.38	23.38	11.00	10.00	10.00
High	5240	24.00	22.15	23.38	23.38	11.00	10.00	10.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Primary Antenna 1 Power [dBm]	Secondary Antenna 2 Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	12.23	12.70	15.78	23.38	-7.60
Mid	5200	12.22	12.73	15.80	23.38	-7.58
High	5240	12.05	13.01	15.87	23.38	-7.51

PPSD Results

Channel	Frequency [MHz]	Primary Antenna 1 PPSD [dBm]	Secondary Antenna 2 PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	2.30	2.93	5.94	10.00	-4.06
Mid	5200	2.53	2.74	5.95	10.00	-4.05
High	5240	1.87	3.20	5.90	10.00	-4.10

10.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5180	21.40	17.64	0.62	3.22
Mid	5200	21.36	17.69	0.62	3.22
High	5240	21.40	17.73	0.62	3.22

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	24.00	22.47	23.38	23.38	11.00	10.00	10.00
Mid	5200	24.00	22.48	23.38	23.38	11.00	10.00	10.00
High	5240	24.00	22.49	23.38	23.38	11.00	10.00	10.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	11.26	11.74	14.83	23.38	-8.55
Mid	5200	11.07	11.83	14.79	23.38	-8.59
High	5240	11.15	11.82	14.82	23.38	-8.56

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	1.09	2.04	4.92	10.00	-5.08
Mid	5200	0.97	1.84	4.75	10.00	-5.25
High	5240	1.31	1.64	4.81	10.00	-5.19

10.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5190	39.48	36.35	0.62	3.22
High	5230	39.54	36.16	0.62	3.22

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	IC eirp PSD Limit [dBm]	PPSP Limit [dBm]
Low	5190	24.00	23.00	23.38	23.38	11.00	10.00	10.00
High	5230	24.00	23.00	23.38	23.38	11.00	10.00	10.00

Duty Cycle CF [dB]	0.62	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5190	9.75	9.95	13.48	23.38	-9.90
High	5230	10.01	9.92	13.60	23.38	-9.78

PPSP Results

Channel	Frequency [MHz]	Chain 0 Meas PPSP [dBm]	Chain 1 Meas PPSP [dBm]	Total Corr'd PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5190	-3.61	-2.94	0.37	10.00	-9.63
High	5230	-3.02	-3.14	0.55	10.00	-9.45

10.5.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency	Min 26 dB BW	Min 99% BW	Directional Gain for Power	Directional Gain for PPSP
	[MHz]	[MHz]	[MHz]	[dBi]	[dBi]
Middle	5210	81.10	75.05	0.62	3.22

Limits

Channel	Frequency	FCC Power Limit	IC EIRP Limit	Max IC Power	Power Limit	FCC PPSP Limit	IC eirp PPSP Limit	PPSP Limit
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
Middle	5210	24.00	23.00	23.38	23.38	11.00	10.00	10.00

Duty Cycle CF [dB]	1.16	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency	Chain 0 Meas Power	Chain 1 Meas Power	Total Corr'd Power	Power Limit	Power Margin
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dB]
Middle	5210	8.59	8.78	12.86	23.38	-10.52

PPSP Results

Channel	Frequency	Chain 0 Meas PPSP	Chain 1 Meas PPSP	Total Corr'd PPSP	PPSP Limit	PPSP Margin
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dB]
Middle	5210	-7.23	-6.73	-2.80	10.00	-12.80

10.5.5. 802.11a MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.24	16.55	0.61	3.21
Mid	5300	21.24	16.44	0.61	3.21
High	5320	21.08	16.52	0.61	3.21

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	22.19	23.39	23.39	11.00	11.00	11.00
Mid	5300	24.00	22.16	23.39	23.39	11.00	11.00	11.00
High	5320	24.00	22.18	23.39	23.39	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Primary Antenna 1 Power [dBm]	Secondary Antenna 2 Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	12.31	11.95	15.45	23.39	-7.94
Mid	5300	11.73	12.01	15.19	23.39	-8.20
High	5320	11.53	12.00	15.09	23.39	-8.30

PPSD Results

Channel	Frequency [MHz]	Primary Antenna 1 PPSD [dBm]	Secondary Antenna 2 PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	2.62	2.07	5.67	11.00	-5.33
Mid	5300	1.83	2.02	5.24	11.00	-5.76
High	5320	1.85	2.11	5.29	11.00	-5.71

10.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.32	17.69	0.61	3.21
Mid	5300	21.20	17.72	0.61	3.21
High	5320	21.36	17.70	0.61	3.21

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	22.48	23.39	23.39	11.00	11.00	11.00
Mid	5300	24.00	22.48	23.39	23.39	11.00	11.00	11.00
High	5320	24.00	22.48	23.39	23.39	11.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	11.36	11.85	14.94	23.39	-8.45
Mid	5300	11.19	11.68	14.77	23.39	-8.62
High	5320	11.07	11.73	14.74	23.39	-8.65

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	1.18	1.89	4.88	11.00	-6.12
Mid	5300	1.05	1.46	4.59	11.00	-6.41
High	5320	0.88	1.86	4.72	11.00	-6.28

10.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5270	39.66	36.24	0.61	3.21
High	5310	39.48	36.28	0.61	3.21

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	IC eirp PPSP Limit [dBm]	PPSP Limit [dBm]
Low	5270	24.00	23.00	23.39	23.39	11.00	11.00	11.00
High	5310	24.00	23.00	23.39	23.39	11.00	11.00	11.00

Duty Cycle CF [dB]	0.62	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5270	10.16	9.81	13.62	23.39	-9.77
High	5310	9.66	9.79	13.36	23.39	-10.03

PPSP Results

Channel	Frequency [MHz]	Chain 0 Meas PPSP [dBm]	Chain 1 Meas PPSP [dBm]	Total Corr'd PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5270	-3.02	-3.35	0.45	11.00	-10.55
High	5310	-3.18	-3.36	0.36	11.00	-10.64

10.5.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Middle	5290	81.20	75.66	0.61	3.21

Limits

Channel	Frequency	FCC Power Limit	IC EIRP Limit	Max IC Power	Power Limit	FCC PPSD Limit	IC eirp PSD Limit	PPSD Limit
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
Middle	5290	24.00	23.00	23.39	23.39	11.00	11.00	11.00

Duty Cycle CF [dB]	1.16	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency	Chain 0 Meas Power	Chain 1 Meas Power	Total Corr'd Power	Power Limit	Power Margin
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dB]
Middle	5290	8.48	8.85	12.84	23.39	-10.55

PPSD Results

Channel	Frequency	Chain 0 Meas PPSD	Chain 1 Meas PPSD	Total Corr'd PPSD	PPSD Limit	PPSD Margin
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dB]
Middle	5290	-7.06	-7.21	-2.96	11.00	-13.96

10.5.9. 802.11a MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PSD [dBi]
Low	5500	21.16	16.57	0.45	2.98
Mid	5580	21.08	16.51	0.45	2.98
High	5700	20.88	16.43	0.45	2.98

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	22.19	23.55	23.55	11.00	11.00	11.00
Mid	5580	24.00	22.18	23.55	23.55	11.00	11.00	11.00
High	5700	24.00	22.16	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency [MHz]	Primary Antenna 1 Power [dBm]	Secondary Antenna 2 Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	11.56	13.06	15.69	23.55	-7.87
Mid	5580	11.22	13.06	15.55	23.55	-8.00
High	5700	11.65	12.96	15.67	23.55	-7.88

PPSD Results

Channel	Frequency [MHz]	Primary Antenna 1 PPSD [dBm]	Secondary Antenna 2 PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	1.66	3.12	5.76	11.00	-5.24
Mid	5580	1.24	3.39	5.76	11.00	-5.24
High	5700	1.97	3.12	5.90	11.00	-5.10

10.5.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5500	21.24	17.62	0.45	2.98
Mid	5580	21.48	17.77	0.45	2.98
High	5700	21.32	17.60	0.45	2.98

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	22.46	23.55	23.55	11.00	11.00	11.00
Mid	5580	24.00	22.50	23.55	23.55	11.00	11.00	11.00
High	5700	24.00	22.46	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	10.94	12.08	14.87	23.55	-8.68
Mid	5580	10.20	11.18	14.04	23.55	-9.51
High	5700	10.03	10.86	13.79	23.55	-9.77

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	0.74	2.36	4.95	11.00	-6.05
Mid	5580	0.32	1.11	4.06	11.00	-6.94
High	5700	0.20	0.81	3.84	11.00	-7.16

10.5.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5510	39.60	36.25	0.45	2.98
Mid	5550	39.72	36.22	0.45	2.98
High	5670	39.72	36.15	0.45	2.98

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	IC eirp PPSP Limit [dBm]	PPSP Limit [dBm]
Low	5510	24.00	23.00	23.55	23.55	11.00	11.00	11.00
Mid	5550	24.00	23.00	23.55	23.55	11.00	11.00	11.00
High	5670	24.00	23.00	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	0.62	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5510	9.48	10.03	13.39	23.55	-10.16
Mid	5550	8.84	9.42	12.77	23.55	-10.78
High	5670	8.69	9.84	12.93	23.55	-10.62

PPSP Results

Channel	Frequency [MHz]	Chain 0 Meas PPSP [dBm]	Chain 1 Meas PPSP [dBm]	Total Corr'd PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5510	-3.54	-2.76	0.50	11.00	-10.50
Mid	5550	-4.16	-3.54	-0.21	11.00	-11.21
High	5670	-4.23	-2.77	0.19	11.00	-10.81

10.5.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5530	81.40	75.32	0.45	2.98
High	5610	80.80	75.64	0.45	2.98

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	IC eirp PPSP Limit [dBm]	PPSP Limit [dBm]
Low	5530	24.00	23.00	23.55	23.55	11.00	11.00	11.00
High	5610	24.00	23.00	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	1.16	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5530	7.78	8.46	12.30	23.55	-11.25
High	5610	7.23	8.15	11.88	23.55	-11.67

PPSP Results

Channel	Frequency [MHz]	Chain 0 Meas PPSP [dBm]	Chain 1 Meas PPSP [dBm]	Total Corr'd PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5530	-8.09	-6.92	-3.29	11.00	-14.29
High	5610	-8.83	-7.39	-3.88	11.00	-14.88

10.5.13. 802.11a MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	21.16	16.49	-1.23	1.57
Mid	5785	21.12	16.48	-1.23	1.57
High	5825	21.44	16.39	-1.23	1.57

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	24.00	22.17	25.23	24.00	11.00	11.00	11.00
Mid	5785	24.00	22.17	25.23	24.00	11.00	11.00	11.00
High	5825	24.00	22.14	25.23	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Primary Antenna 1 Power [dBm]	Secondary Antenna 2 Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	11.47	12.93	15.57	24.00	-8.43
Mid	5785	11.31	12.86	15.47	24.00	-8.53
High	5825	12.15	12.67	15.73	24.00	-8.27

PPSD Results

Channel	Frequency [MHz]	Primary Antenna 1 PPSD [dBm]	Secondary Antenna 2 PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	1.39	3.26	5.74	11.00	-5.26
Mid	5785	1.30	3.01	5.55	11.00	-5.45
High	5825	2.14	2.96	5.88	11.00	-5.12

10.5.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	21.40	17.65	-1.23	1.57
Mid	5785	21.48	17.75	-1.23	1.57
High	5825	21.24	17.72	-1.23	1.57

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	24.00	22.47	25.23	24.00	11.00	11.00	11.00
Mid	5785	24.00	22.49	25.23	24.00	11.00	11.00	11.00
High	5825	24.00	22.49	25.23	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	10.33	10.76	13.88	24.00	-10.12
Mid	5785	10.45	10.74	13.93	24.00	-10.07
High	5825	10.17	10.54	13.68	24.00	-10.32

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	0.41	0.53	3.80	11.00	-7.20
Mid	5785	0.28	0.67	3.80	11.00	-7.20
High	5825	0.01	0.62	3.65	11.00	-7.35

10.5.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5755	39.60	36.12	-1.23	1.57
High	5795	40.74	36.27	-1.23	1.57

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	IC eirp PPSP Limit [dBm]	PPSP Limit [dBm]
Low	5755	24.00	23.00	25.23	24.00	11.00	11.00	11.00
High	5795	24.00	23.00	25.23	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.62	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5755	10.35	10.25	13.93	24.00	-10.07
High	5795	10.09	10.15	13.75	24.00	-10.25

PPSP Results

Channel	Frequency [MHz]	Chain 0 Meas PPSP [dBm]	Chain 1 Meas PPSP [dBm]	Total Corr'd PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5755	-2.35	-2.67	1.12	11.00	-9.88
High	5795	-2.87	-2.63	0.88	11.00	-10.12

10.5.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency	Min 26 dB BW	Min 99% BW	Directional Gain for Power	Directional Gain for PPSP
	[MHz]	[MHz]	[MHz]	[dBi]	[dBi]
Middle	5775	80.80	75.77	-1.23	1.57

Limits

Channel	Frequency	FCC Power Limit	IC EIRP Limit	Max IC Power	Power Limit	FCC PPSP Limit	IC eirp PPSP Limit	PPSP Limit
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	[dBm]
Middle	5775	24.00	23.00	25.23	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	1.16	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency	Chain 0 Meas Power	Chain 1 Meas Power	Total Corr'd Power	Power Limit	Power Margin
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dB]
Middle	5775	7.66	8.50	12.27	24.00	-11.73

PPSP Results

Channel	Frequency	Chain 0 Meas PPSP	Chain 1 Meas PPSP	Total Corr'd PPSP	PPSP Limit	PPSP Margin
	[MHz]	[dBm]	[dBm]	[dBm]	[dBm]	[dB]
Middle	5775	-8.50	-7.31	-3.69	11.00	-14.69

10.5.17. 802.11a MODE AT STRADDLE CHANNEL

Bandwidth and Antenna Gain

Portion	Frequency [MHz]	Antenna 1 26 dB BW [MHz]	Antenna 2 26 dB BW [MHz]	Antenna 1 99% BW [MHz]	Antenna 2 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
UNII-2C	5720	15.50	15.58	13.23	13.28	0.45	2.98
UNII-3	5720	5.50	5.58	3.23	3.28	0.45	2.98
Whole	5720	21.00	21.16	16.46	16.55	0.45	2.98

Limits

Portion	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
UNII-2C	5720	22.90	21.22	22.46	22.46	11.00	11.00	11.00
UNII-3	5720	18.40	15.09	17.96	17.96	11.00	11.00	11.00
Whole	5720	24.00	22.16	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Portion	Frequency [MHz]	Primary Antenna 1 Power [dBm]	Secondary Antenna 2 Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
UNII-2C	5720	11.12	12.27	15.04	22.46	-7.41
UNII-3	5720	3.78	4.97	7.73	17.96	-10.23
Whole	5720	11.85	13.01	15.78	23.55	-7.77

PPSD Results

Channel	Frequency [MHz]	Primary Antenna 1 PPSD [dBm]	Secondary Antenna 2 PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
144	5720	2.10	3.46	6.15	11.00	-4.85

10.5.18. 802.11n HT20 MODE AT STRADDLE CHANNEL

Bandwidth and Antenna Gain

Portion	Frequency [MHz]	Chain 0 26 dB BW [MHz]	Chain 1 26 dB BW [MHz]	Chain 0 99% BW [MHz]	Chain 1 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
UNII-2C	5720	15.74	15.56	13.82	13.85	0.45	2.98
UNII-3	5720	5.74	5.56	3.82	3.85	0.45	2.98
Whole	5720	21.48	21.12	17.64	17.71	0.45	2.98

Limits

Portion	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
UNII-2C	5720	22.97	21.40	22.52	22.52	11.00	11.00	11.00
UNII-3	5720	18.59	15.82	18.14	18.14	11.00	11.00	11.00
Whole	5720	24.00	22.46	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Portion	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
UNII-2C	5720	9.13	9.96	12.89	22.52	-9.63
UNII-3	5720	2.61	3.26	6.28	18.14	-11.87
Whole	5720	10.01	10.80	13.75	23.55	-9.81

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
144	5720	-0.03	1.04	3.86	11.00	-7.14

10.5.19. 802.11n HT40 MODE AT STRADDLE CHANNEL

Bandwidth and Antenna Gain

Portion	Frequency [MHz]	Chain 0 26 dB BW [MHz]	Chain 1 26 dB BW [MHz]	Chain 0 99% BW [MHz]	Chain 1 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
UNII-2C	5710	34.86	34.50	33.08	33.09	0.45	2.98
UNII-3	5710	4.86	4.50	3.08	3.09	0.45	2.98
Whole	5710	39.72	39.00	36.16	36.17	0.45	2.98

Limits

Portion	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
UNII-2C	5710	24.00	23.00	23.55	23.55	11.00	11.00	11.00
UNII-3	5710	17.87	14.89	17.42	17.42	11.00	11.00	11.00
Whole	5710	24.00	23.00	23.55	23.55	11.00	11.00	11.00

Duty Cycle CF [dB]	0.62	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Portion	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
UNII-2C	5710	8.62	9.47	12.70	23.55	-10.86
UNII-3	5710	-2.35	-1.61	1.66	17.42	-15.76
Whole	5710	8.95	9.80	13.03	23.55	-10.53

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
142	5710	-4.22	-3.36	-0.14	11.00	-11.14