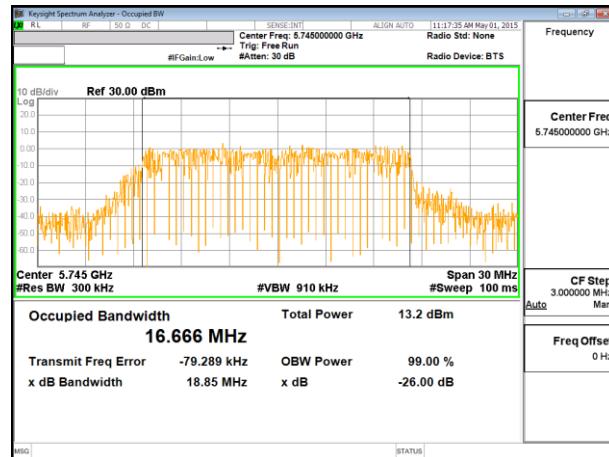
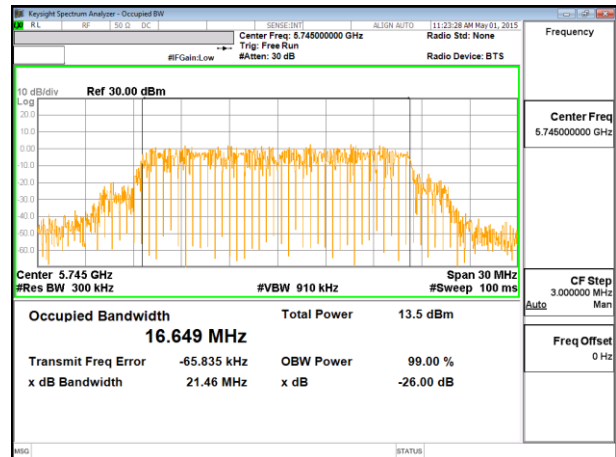


UNII 5.8 GHz

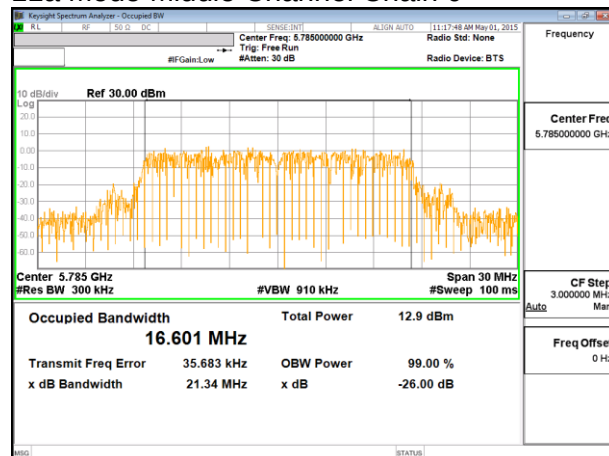
11a Mode Low Channel Chain 0



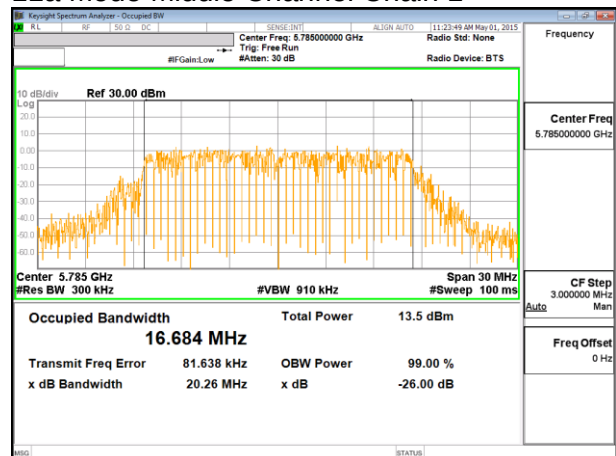
11a Mode Low Channel Chain 1



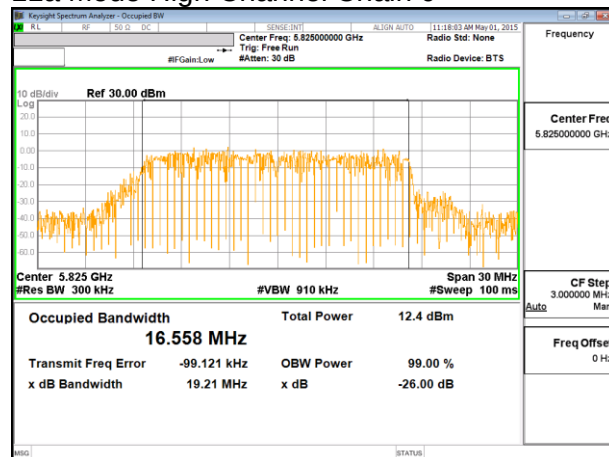
11a Mode Middle Channel Chain 0



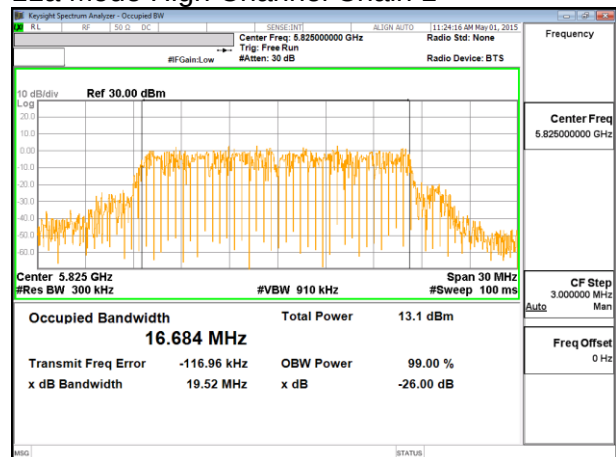
11a Mode Middle Channel Chain 1



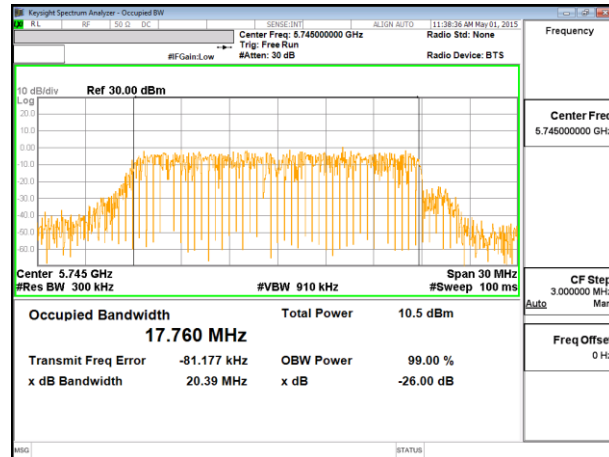
11a Mode High Channel Chain 0



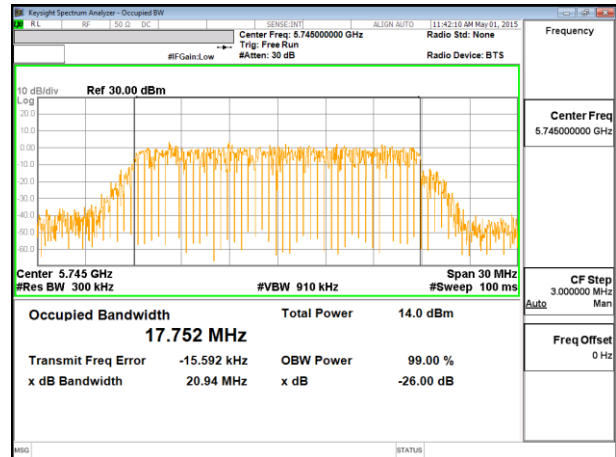
11a Mode High Channel Chain 1



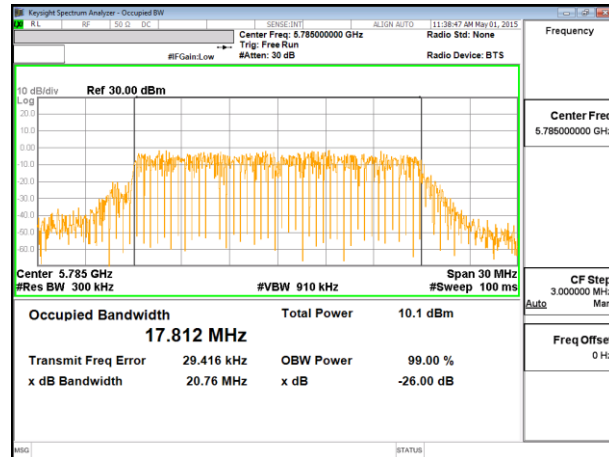
11n HT20 Mode Low Channel Chain 0



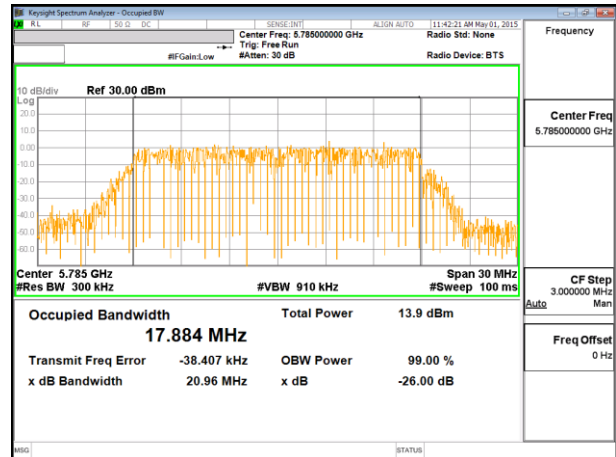
11n HT20 Mode Low Channel Chain 1



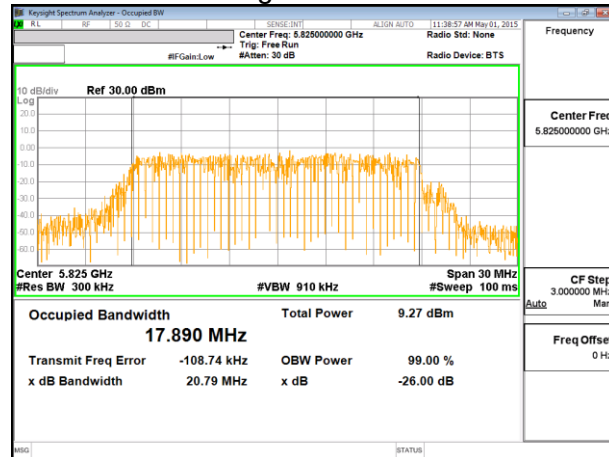
11n HT20 Mode Middle Channel Chain 0



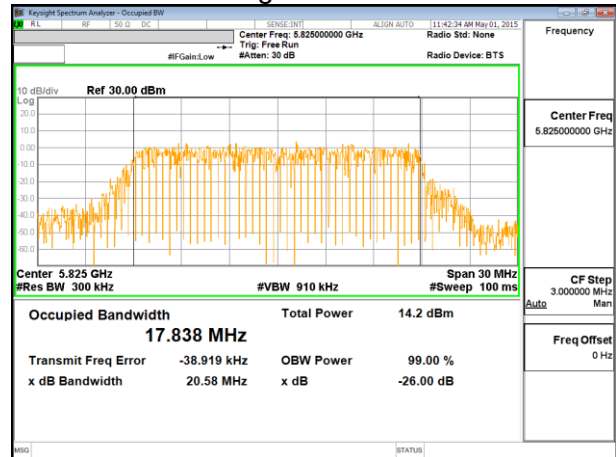
11n HT20 Mode Middle Channel Chain 1

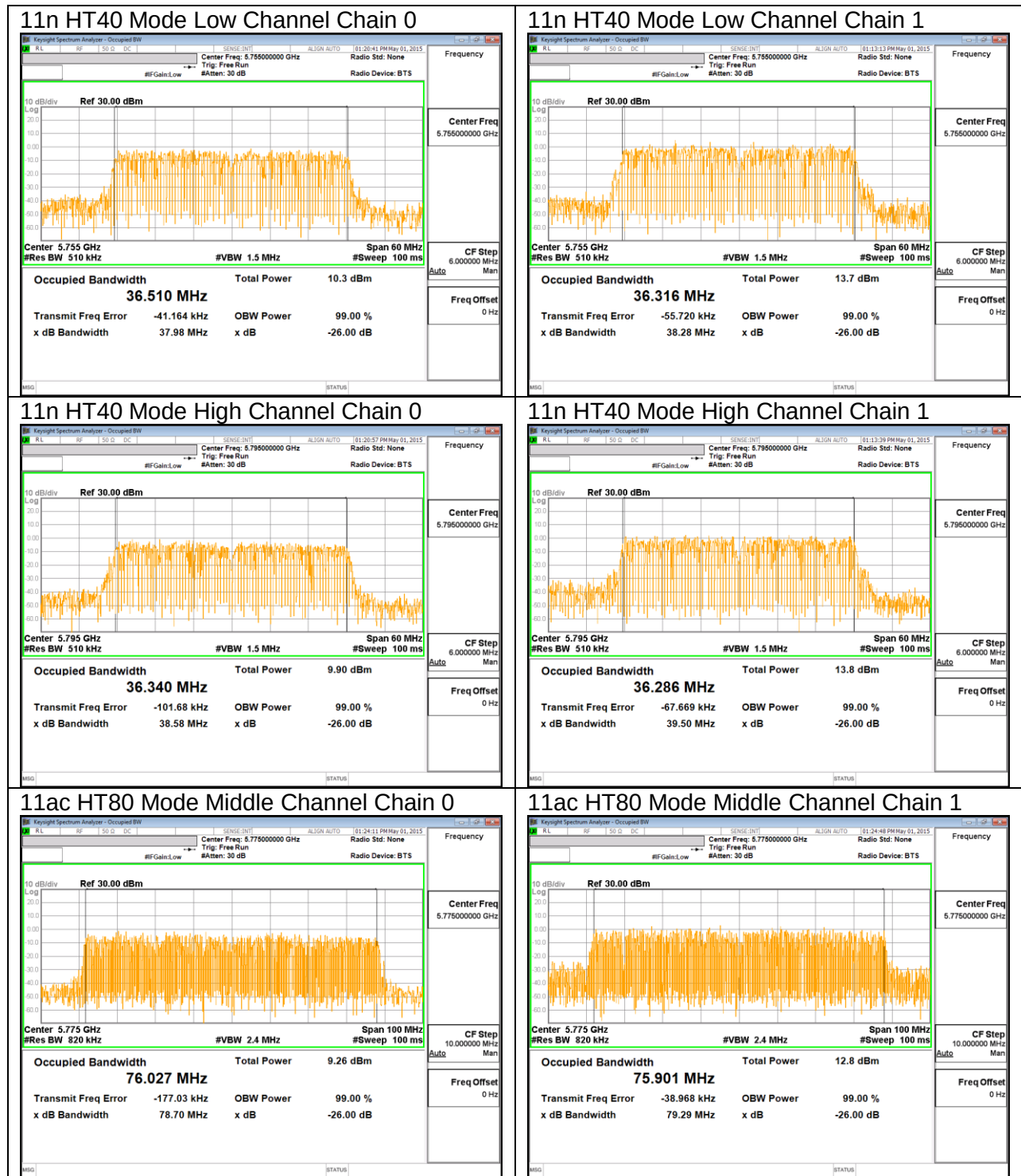


11n HT20 Mode High Channel Chain 0



11n HT20 Mode High Channel Chain 1





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]	
		Chain 0	Chain 1
Low	5180	13.78	13.87
Mid	5200	13.66	13.87
High	5240	13.48	13.99
Worst		13.99	

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	13.53	13.71
Mid	5200	13.43	13.57
High	5240	13.28	13.71
Worst		13.71	

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	13.99	13.36
High	5230	13.93	13.54
Worst		13.99	

10.4.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5210	14.41	13.75
Worst		14.41	

10.4.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5260	13.45	14.03
Mid	5300	13.26	14.29
High	5320	13.32	14.33
Worst		14.33	

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	14.37	13.98
Mid	5300	14.20	13.96
High	5320	14.17	14.10
Worst		14.37	

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	14.12	13.67
High	5310	14.08	13.85
Worst		14.12	

10.4.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5290	13.74	13.88
Worst		13.88	

10.4.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5500	13.98	14.06
Mid	5580	13.70	14.22
High	5700	13.48	14.37
Worst		14.37	

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	14.00	13.93
Mid	5580	13.76	14.11
High	5700	13.43	14.26
Worst		14.26	

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	14.05	13.55
Mid	5550	13.74	13.79
High	5670	13.47	13.81
Worst		14.05	

10.4.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5530	13.47	13.97
High	5690	13.08	14.15
Worst		14.15	

10.4.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5745	13.92	13.76
Mid	5785	13.43	13.65
High	5825	12.96	13.61
Worst		13.92	

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	13.96	14.42
Mid	5785	13.54	14.33
High	5825	12.96	14.42
Worst		14.42	

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	13.41	14.18
High	5795	13.05	14.27
Worst		14.27	

10.4.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5775	13.57	14.37
Worst		14.37	

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	-3.54	-4.07	-3.80	-0.79
5250 - 5350	-3.17	-1.95	-2.52	0.47
5470 - 5725	-1.27	-3.69	-2.31	0.61
5725 - 5850	-2.49	-2.45	-2.47	0.54

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	21.84	16.6530	-3.80	-0.79
Mid	5200	21.76	16.7160	-3.80	-0.79
High	5240	21.72	16.7670	-3.80	-0.79

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	22.21	27.80	24.00	11.00	10.00	11.79
Mid	5200	24.00	22.23	27.80	24.00	11.00	10.00	11.79
High	5240	24.00	22.24	27.80	24.00	11.00	10.00	11.79

Duty Cycle CF [dB]	0.31	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	5180	13.78	13.87	17.15	24.00	-6.85
Mid	5200	13.66	13.87	17.09	24.00	-6.91
High	5240	13.48	13.99	17.06	24.00	-6.94

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	3.41	2.86	6.46	11.00	-4.54
Mid	5200	3.58	2.74	6.50	11.00	-4.50
High	5240	3.30	3.08	6.51	11.00	-4.49

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	21.88	17.8970	-3.80	-0.79
Mid	5200	21.88	17.7530	-3.80	-0.79
High	5240	21.96	17.8950	-3.80	-0.79

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	22.53	27.80	24.00	11.00	10.00	11.79
Mid	5200	24.00	22.49	27.80	24.00	11.00	10.00	11.79
High	5240	24.00	22.53	27.80	24.00	11.00	10.00	11.79

Duty Cycle CF [dB]	0.33	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	13.53	13.71	16.96	24.00	-7.04
Mid	5200	13.43	13.57	16.84	24.00	-7.16
High	5240	13.28	13.71	16.84	24.00	-7.16

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	3.07	2.37	6.07	11.00	-4.93
Mid	5200	3.25	2.37	6.17	11.00	-4.83
High	5240	3.17	2.68	6.27	11.00	-4.73

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 PPSD [dBi]
Low	5190	40.20	36.3180	-3.80	-0.79
High	5230	40.20	36.3730	-3.80	-0.79

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	5190	24.00	23.00	27.80	24.00	11.00	10.00	11.79
High	5230	24.00	23.00	27.80	24.00	11.00	10.00	11.79

Duty Cycle CF [dB]	0.62	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	5190	13.99	13.36	17.32	24.00	-6.68
High	5230	13.93	13.54	17.37	24.00	-6.63

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	5190	0.00	-0.79	3.25	11.00	-7.75
High	5230	-0.53	-0.67	3.03	11.00	-7.97

10.5.4. 802.11ac HT80 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]
Middle	5210	82.20	76.0780	-3.80	-0.79

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]
Middle	5210	24.00	23.00	27.80	24.00	11.00	10.00	11.79

Duty Cycle CF [dB]	1.15	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]
Middle	5210	14.41	13.75	18.25	24.00	-5.75

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]
Middle	5210	-4.12	-4.56	-0.17	11.00	-11.17

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	21.68	16.7010	-2.52	0.47
Mid	5300	21.76	16.6410	-2.52	0.47
High	5320	21.76	16.6870	-2.52	0.47

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	22.23	26.52	24.00	11.00	11.00	10.53
Mid	5300	24.00	22.21	26.52	24.00	11.00	11.00	10.53
High	5320	24.00	22.22	26.52	24.00	11.00	11.00	10.53

Duty Cycle CF [dB]	0.31	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	13.45	14.03	17.07	24.00	-6.93
Mid	5300	13.26	14.29	17.13	24.00	-6.87
High	5320	13.32	14.33	17.17	24.00	-6.83

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	3.66	3.19	6.75	11.00	-4.25
Mid	5300	3.22	3.00	6.43	11.00	-4.57
High	5320	3.09	3.35	6.54	11.00	-4.46

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	22.00	17.8740	-2.52	0.47
Mid	5300	21.88	17.8960	-2.52	0.47
High	5320	21.92	17.8770	-2.52	0.47

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	22.52	26.52	24.00	11.00	11.00	10.53
Mid	5300	24.00	22.53	26.52	24.00	11.00	11.00	10.53
High	5320	24.00	22.52	26.52	24.00	11.00	11.00	10.53

Duty Cycle CF [dB]	0.33	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	14.37	13.98	17.52	24.00	-6.48
Mid	5300	14.20	13.96	17.42	24.00	-6.58
High	5320	14.17	14.10	17.48	24.00	-6.52

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	3.01	2.85	6.27	11.00	-4.73
Mid	5300	2.84	2.76	6.14	11.00	-4.86
High	5320	2.66	2.96	6.15	11.00	-4.85

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 PPSD [dBi]
Low	5270	40.44	36.5050	-2.52	0.47
High	5310	40.32	36.4140	-2.52	0.47

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	5270	24.00	23.00	26.52	24.00	11.00	11.00	10.53
High	5310	24.00	23.00	26.52	24.00	11.00	11.00	10.53

Duty Cycle CF [dB]	0.62	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	5270	14.12	13.67	17.53	24.00	-6.47
High	5310	14.08	13.85	17.60	24.00	-6.40

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	5270	-0.26	-0.79	3.11	11.00	-7.89
High	5310	-0.53	-0.78	2.97	11.00	-8.03

10.5.8. 802.11ac HT80 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]
Middle	5290	82.10	76.0060	-3.80	-0.79

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]
Middle	5290	24.00	23.00	27.80	24.00	11.00	11.00	11.79

Duty Cycle CF [dB]	1.15	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]
Middle	5290	13.74	13.88	17.97	24.00	-6.03

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]
Middle	5290	-4.05	-4.03	0.12	11.00	-10.88

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 PPSD [dBi]
Low	5500	21.76	16.7010	-2.31	0.61
Mid	5580	21.64	16.6410	-2.31	0.61
High	5700	21.60	16.6870	-2.31	0.61

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	22.23	26.31	24.00	11.00	11.00	10.39
Mid	5580	24.00	22.21	26.31	24.00	11.00	11.00	10.39
High	5700	24.00	22.22	26.31	24.00	11.00	11.00	10.39

Duty Cycle CF [dB]	0.31	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	13.98	14.06	17.34	24.00	-6.66
Mid	5580	13.70	14.22	17.29	24.00	-6.71
High	5700	13.48	14.37	17.27	24.00	-6.73

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	3.56	3.18	6.69	11.00	-4.31
Mid	5580	2.83	3.12	6.30	11.00	-4.70
High	5700	2.35	3.75	6.42	11.00	-4.58

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	22.00	16.7100	-2.31	0.61
Mid	5580	22.04	16.6800	-2.31	0.61
High	5700	21.96	16.7500	-2.31	0.61

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	22.23	26.31	24.00	11.00	11.00	10.39
Mid	5580	24.00	22.22	26.31	24.00	11.00	11.00	10.39
High	5700	24.00	22.24	26.31	24.00	11.00	11.00	10.39

Duty Cycle CF [dB]	0.33	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	14.00	13.93	17.31	24.00	-6.69
Mid	5580	13.76	14.11	17.28	24.00	-6.72
High	5700	13.43	14.26	17.21	24.00	-6.79

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	1.60	2.95	5.66	11.00	-5.34
Mid	5580	1.00	2.75	5.30	11.00	-5.70
High	5700	0.32	3.44	5.50	11.00	-5.50

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 PPSD [dBi]
Low	5510	40.44	36.3890	-2.31	0.61
Mid	5550	40.44	36.4410	-2.31	0.61
High	5670	40.50	36.3870	-2.31	0.61

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	5510	24.00	23.00	26.31	24.00	11.00	11.00	10.39
Mid	5550	24.00	23.00	26.31	24.00	11.00	11.00	10.39
High	5670	24.00	23.00	26.31	24.00	11.00	11.00	10.39

Duty Cycle CF [dB]	0.62	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	5510	14.05	13.55	17.44	24.00	-6.56
Mid	5550	13.74	13.79	17.40	24.00	-6.60
High	5670	13.47	13.81	17.27	24.00	-6.73

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	5510	-2.26	-1.42	1.81	11.00	-9.19
Mid	5550	-2.55	-0.54	2.20	11.00	-8.80
High	5670	-2.79	-0.02	2.45	11.00	-8.55

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	82.20	76.0080	-2.31	0.61
High	5690	82.00	76.0870	-2.31	0.61

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	5530	24.00	23.00	26.31	24.00	11.00	11.00	10.39
High	5690	24.00	23.00	26.31	24.00	11.00	11.00	10.39

Duty Cycle CF [dB]	1.15	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	13.47	13.97	17.89	24.00	-6.11
High	5690	13.08	14.15	17.81	24.00	-6.19

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	-5.46	-4.07	-0.55	11.00	-11.55
High	5690	-5.85	-3.63	-0.44	11.00	-11.44

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	21.64	16.6660	-2.47	0.54
Mid	5785	21.64	16.6840	-2.47	0.54
High	5825	21.68	16.6840	-2.47	0.54

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	22.22	26.47	24.00	11.00	11.00	10.46
Mid	5785	24.00	22.22	26.47	24.00	11.00	11.00	10.46
High	5825	24.00	22.22	26.47	24.00	11.00	11.00	10.46

Duty Cycle CF [dB]	0.31	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	13.92	13.76	17.16	24.00	-6.84
Mid	5785	13.43	13.65	16.86	24.00	-7.14
High	5825	12.96	13.61	16.62	24.00	-7.38

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	2.33	2.91	5.95	11.00	-5.05
Mid	5785	1.71	3.22	5.85	11.00	-5.15
High	5825	1.07	2.95	5.43	11.00	-5.57

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	21.80	17.7600	-2.47	0.54
Mid	5785	21.88	17.8840	-2.47	0.54
High	5825	21.84	17.8900	-2.47	0.54

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	22.49	26.47	24.00	11.00	11.00	10.46
Mid	5785	24.00	22.52	26.47	24.00	11.00	11.00	10.46
High	5825	24.00	22.53	26.47	24.00	11.00	11.00	10.46

Duty Cycle CF [dB]	0.33	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	13.96	14.42	17.54	24.00	-6.46
Mid	5785	13.54	14.33	17.29	24.00	-6.71
High	5825	12.96	14.42	17.09	24.00	-6.91

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	0.33	3.98	5.87	11.00	-5.13
Mid	5785	-0.40	3.30	5.17	11.00	-5.83
High	5825	-0.99	3.23	4.95	11.00	-6.05

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 PPSD [dBi]
Low	5755	40.20	36.5100	-2.47	0.54
High	5795	40.26	36.3400	-2.47	0.54

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	5755	24.00	23.00	26.47	24.00	11.00	11.00	10.46
High	5795	24.00	23.00	26.47	24.00	11.00	11.00	10.46

Duty Cycle CF [dB]	0.62	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	5755	13.41	14.18	17.44	24.00	-6.56
High	5795	13.05	14.27	17.33	24.00	-6.67

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	5755	-2.71	0.38	2.74	11.00	-8.26
High	5795	-3.44	0.06	2.29	11.00	-8.71

10.5.16. 802.11ac HT80 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]
Middle	5775	82.40	76.0270	-2.47	0.54

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]
Middle	5775	24.00	23.00	26.47	24.00	11.00	11.00	10.46

Duty Cycle CF [dB]	1.15	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

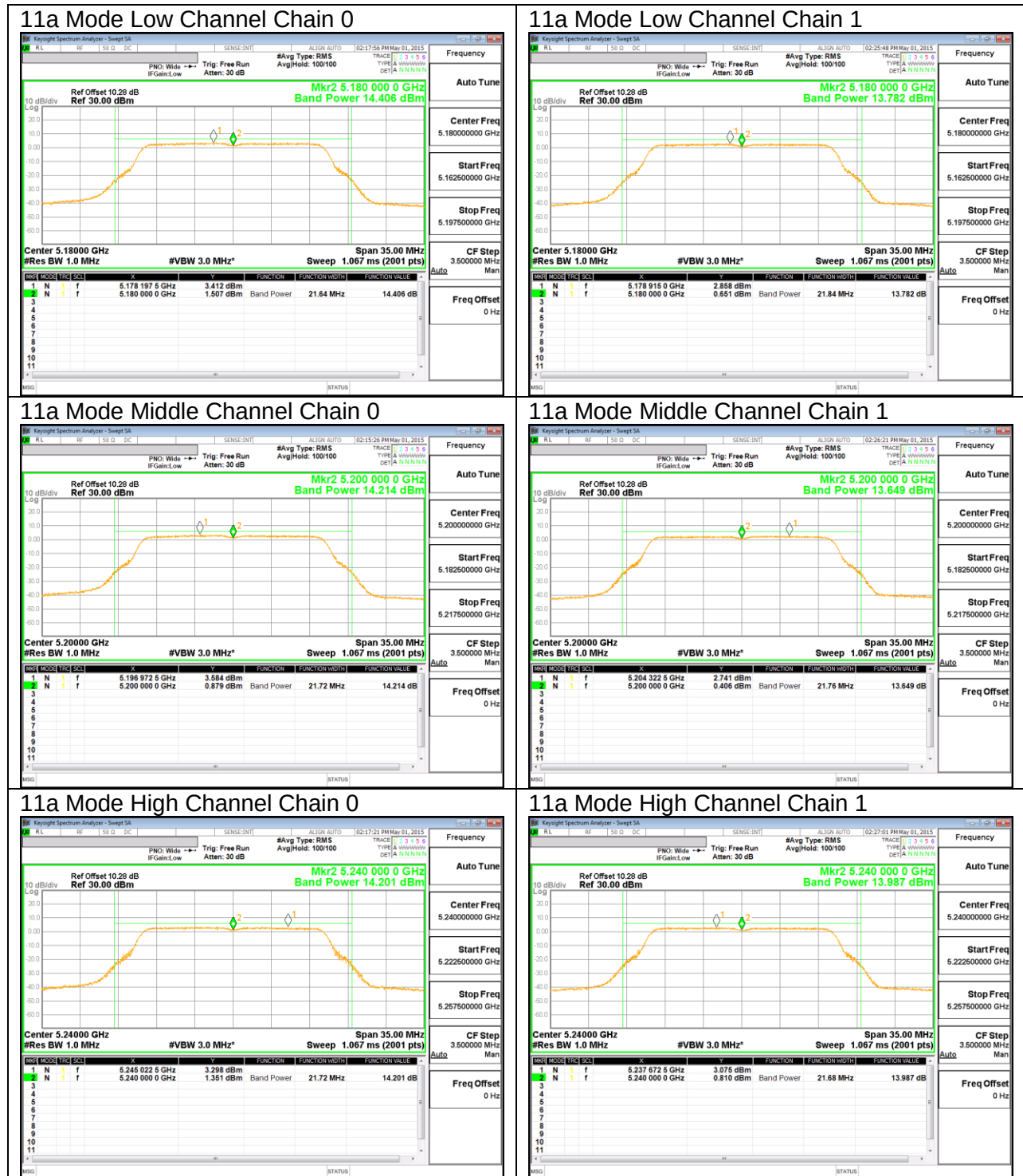
Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5775	13.57	13.37	17.63	24.00	-6.37

PPSD Results

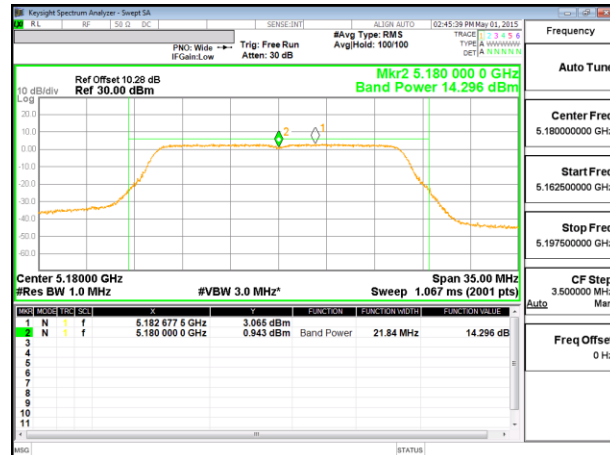
Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Middle	5775	-6.68	-3.19	-0.43	11.00	-11.43

10.5.17. OUTPUT POWER AND PPSD PLOTS

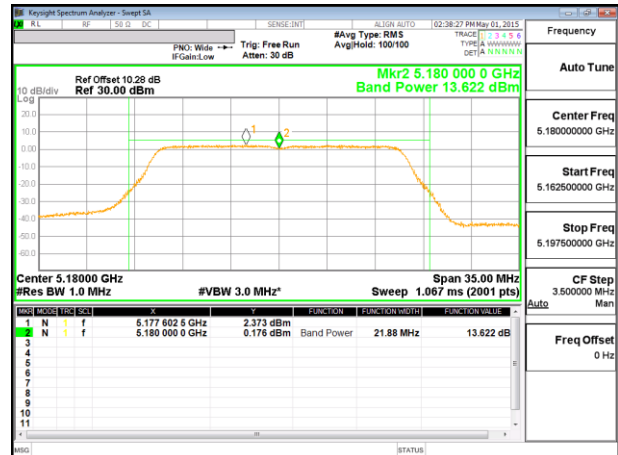
UNII 5.2 GHz



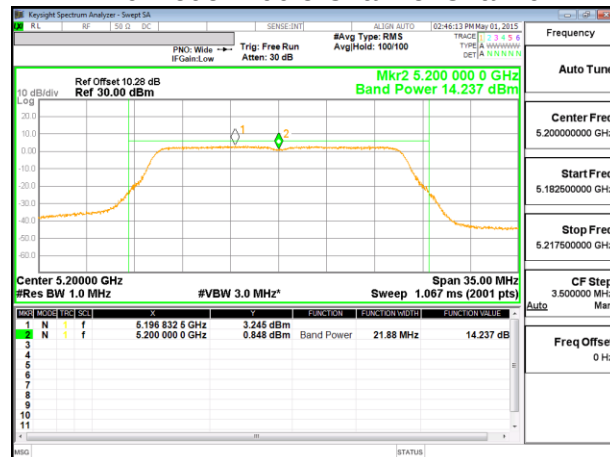
11n HT20 Mode Low Channel Chain 0



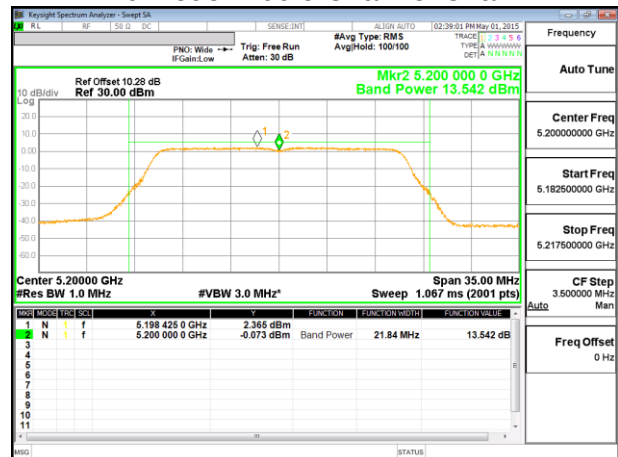
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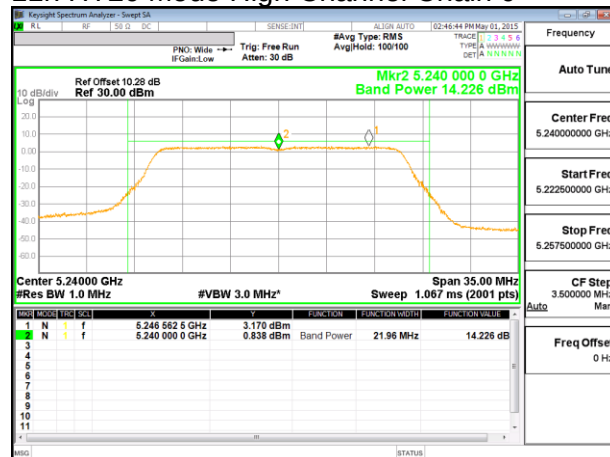
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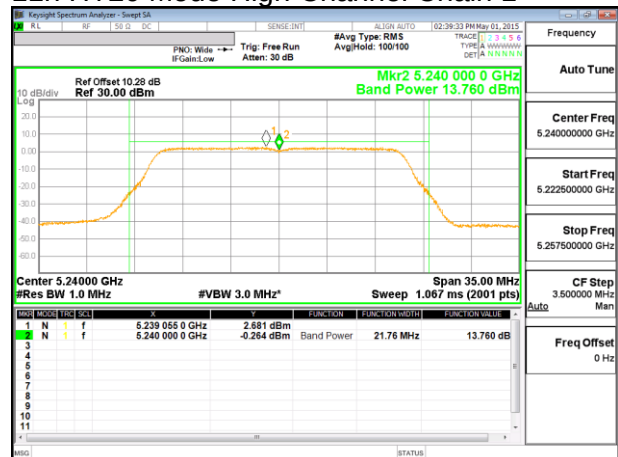
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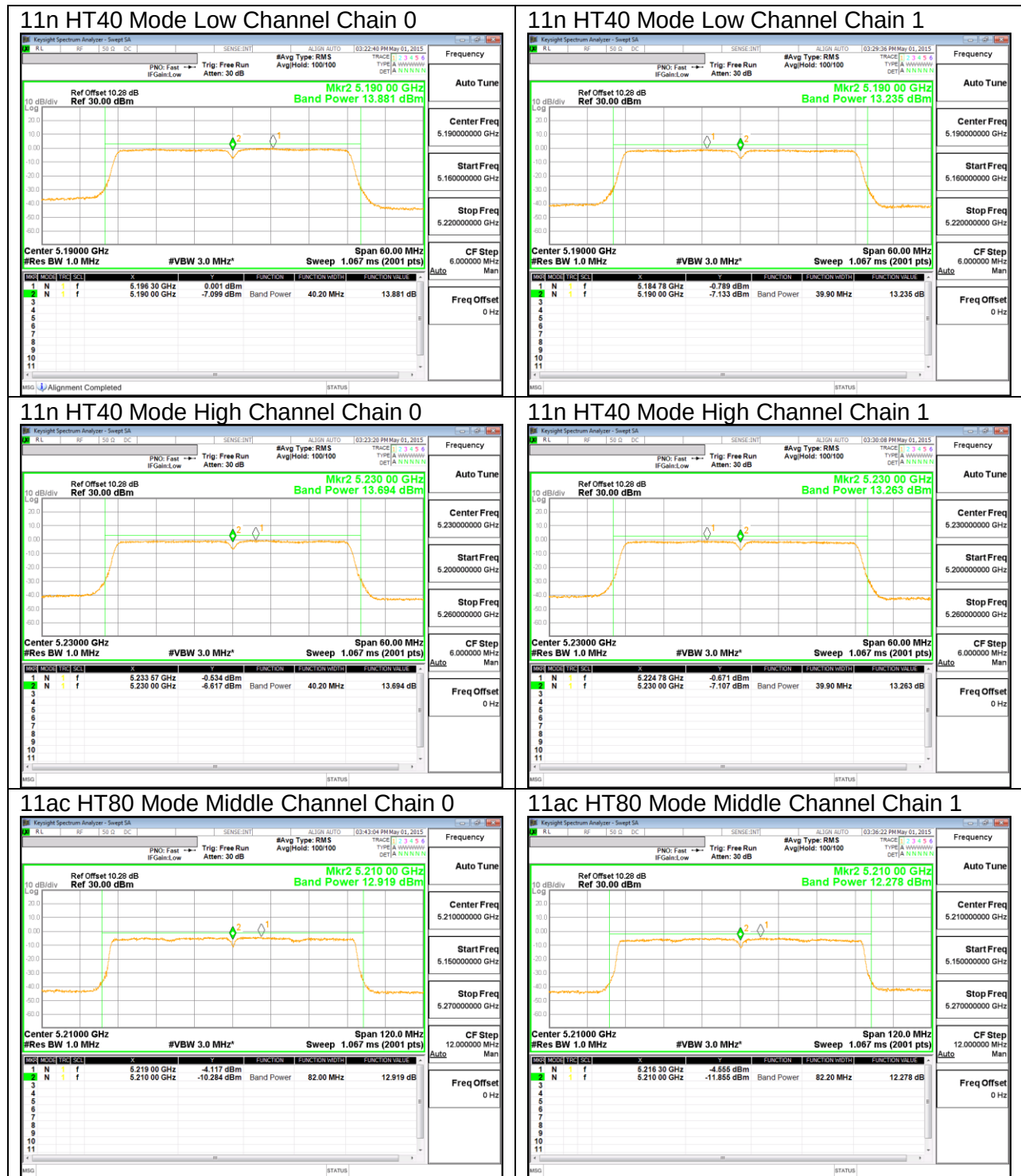


11n HT20 Mode High Channel Chain 0



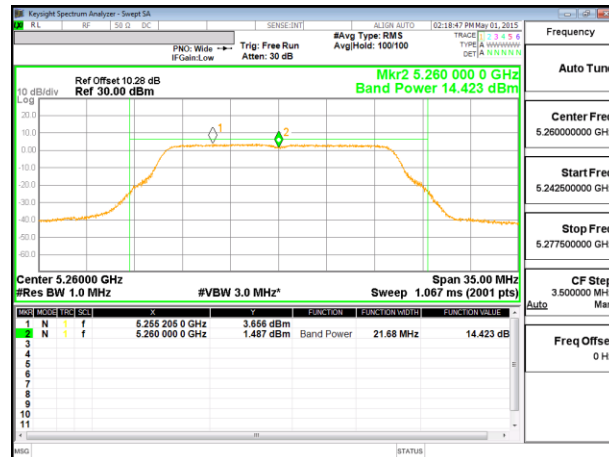
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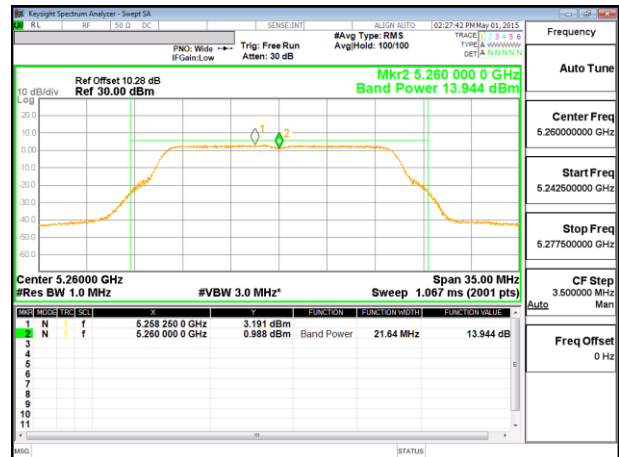


UNII 5.3 GHz

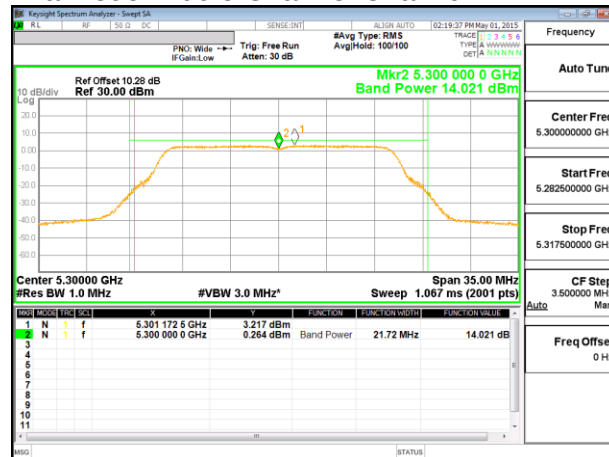
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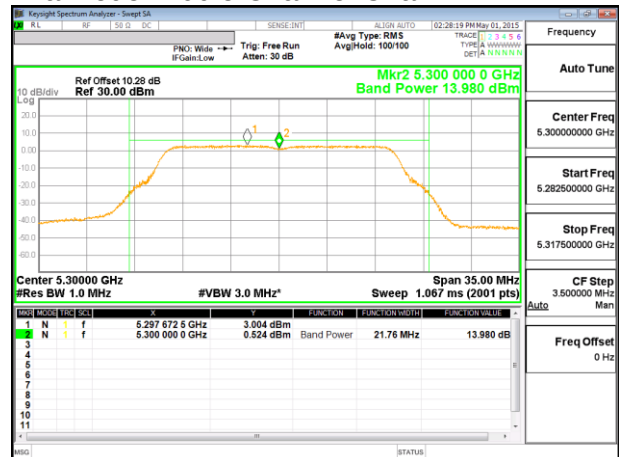
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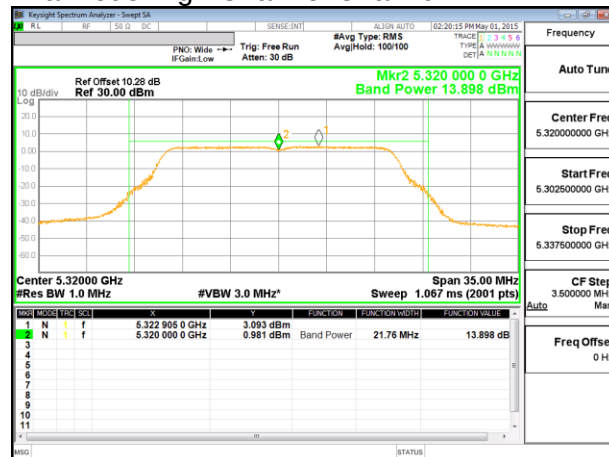
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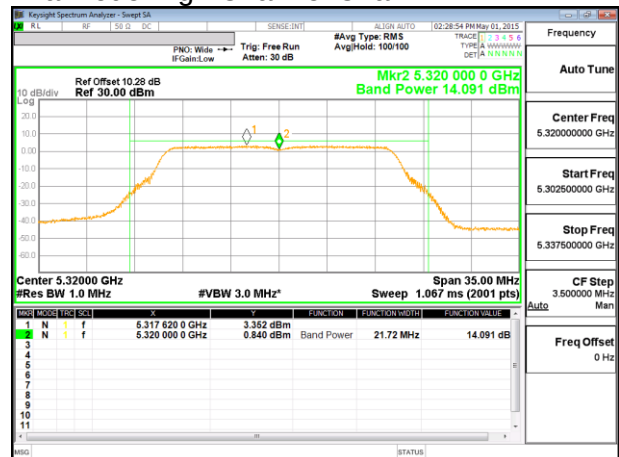
11a Mode Middle Channel Chain 1



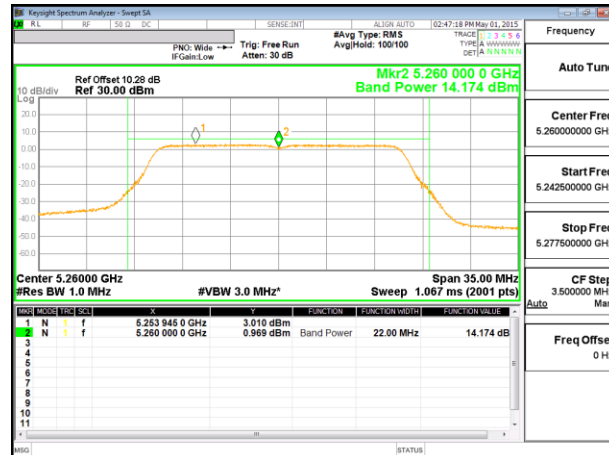
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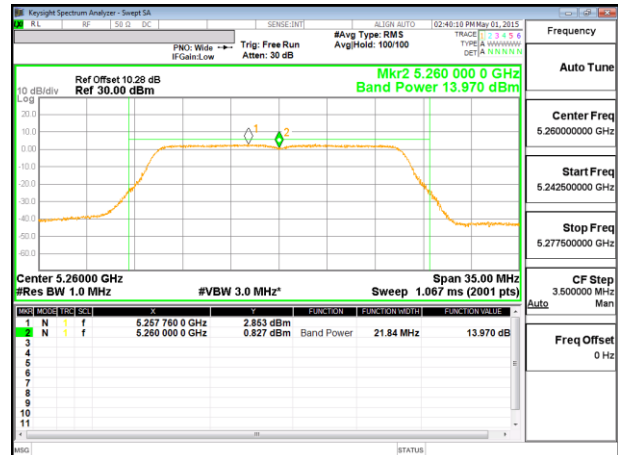
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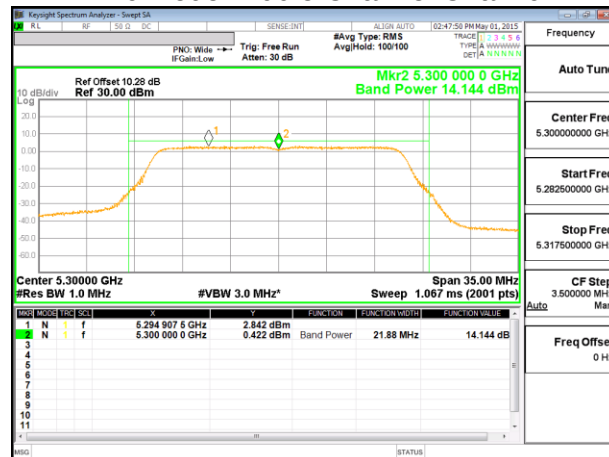
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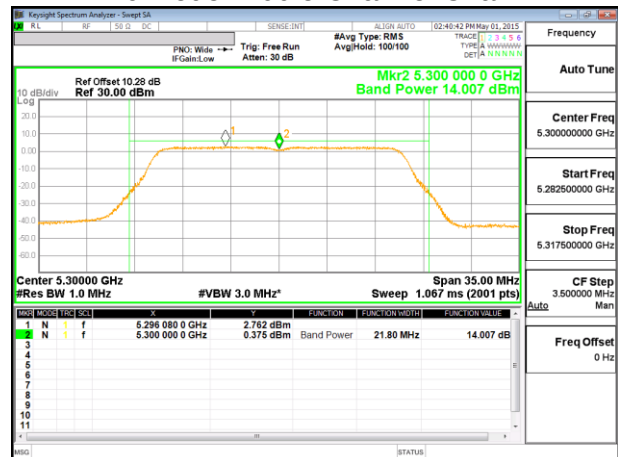
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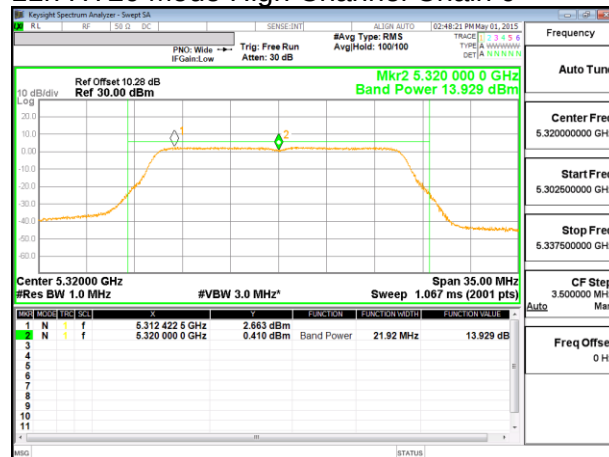
11n HT20 Mode Middle Channel Chain 0



11n HT20 Mode Middle Channel Chain 1



11n HT20 Mode High Channel Chain 0



11n HT20 Mode High Channel Chain 1

