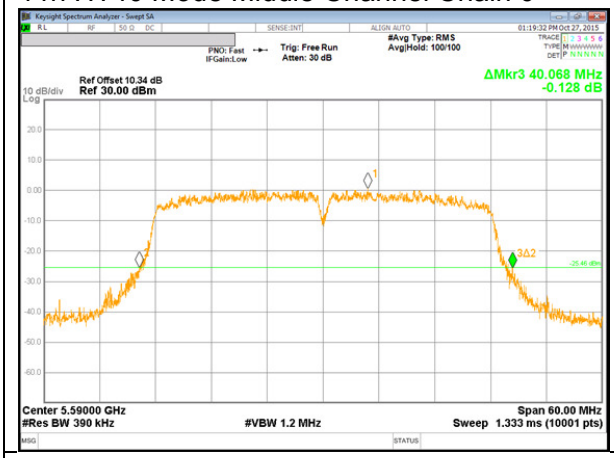
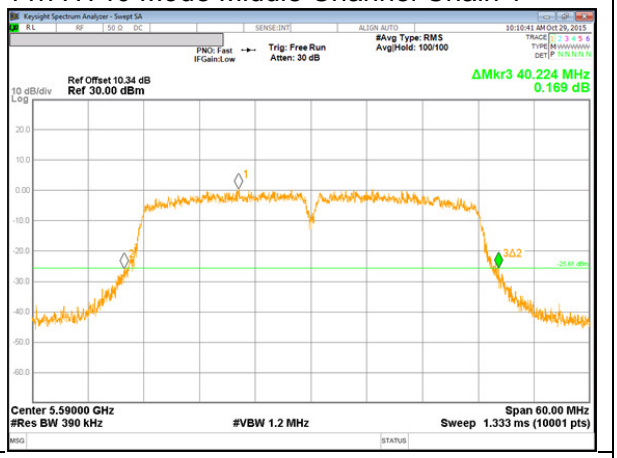
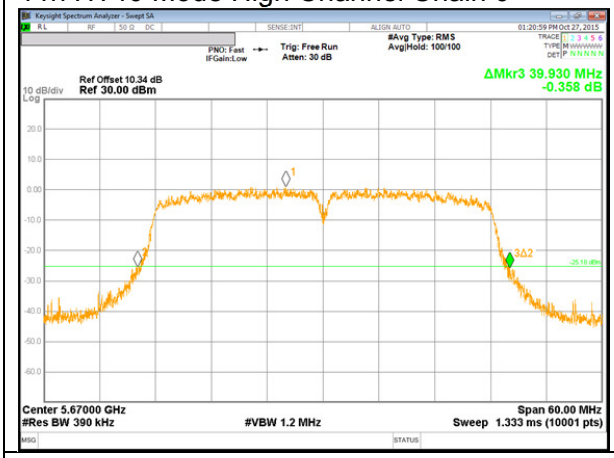
11n HT40 Mode Middle Channel Chain 0



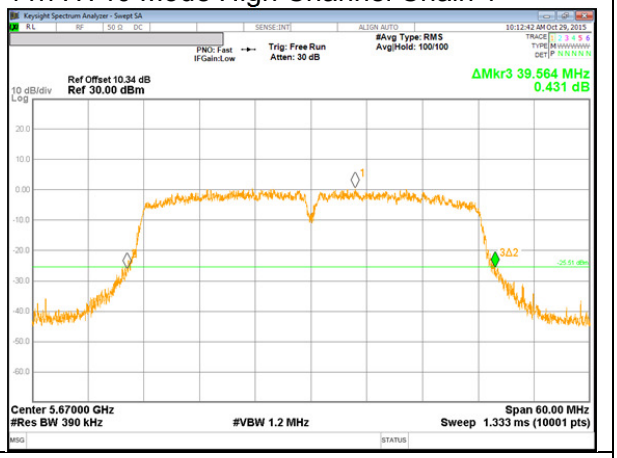
11n HT40 Mode Middle Channel Chain 1



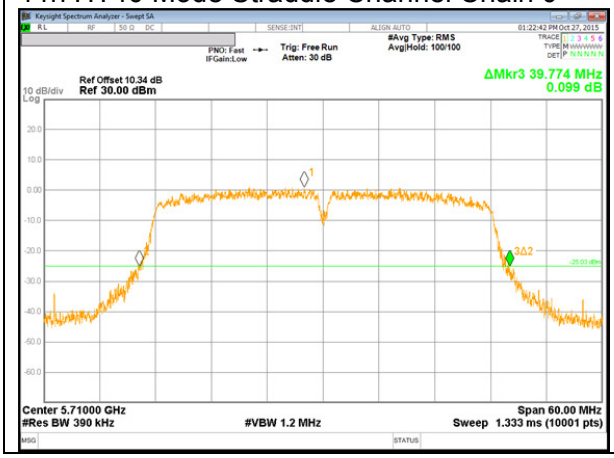
11n HT40 Mode High Channel Chain 0



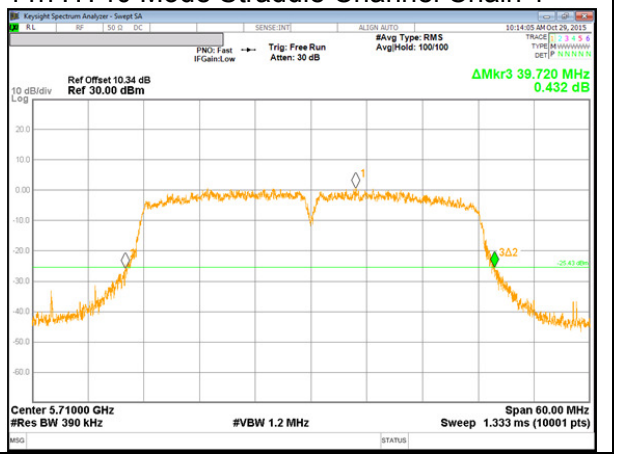
11n HT40 Mode High Channel Chain 1



11n HT40 Mode Straddle Channel Chain 0



11n HT40 Mode Straddle Channel Chain 1



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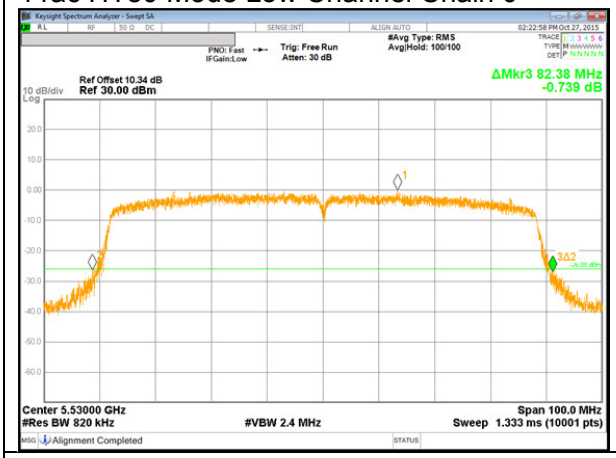
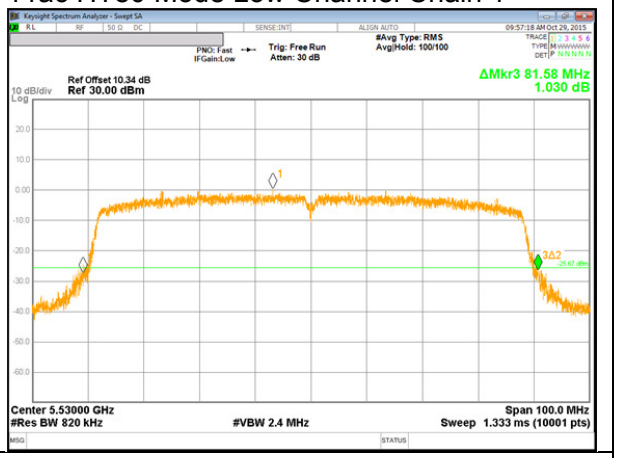
UNII 5.5 GHz IEEE 802.11ac VHT80 mode

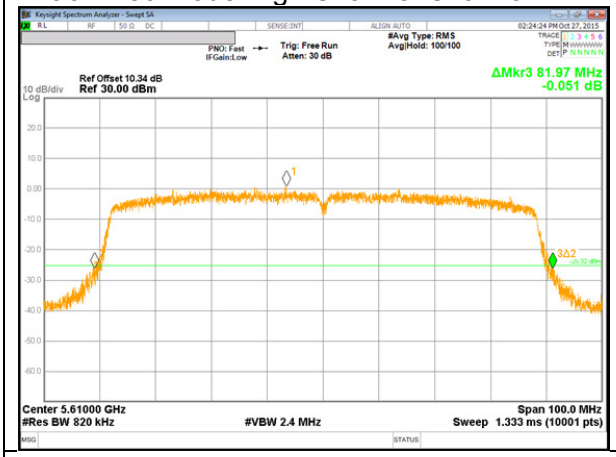
11ac HT80 Mode Low Channel Chain 0



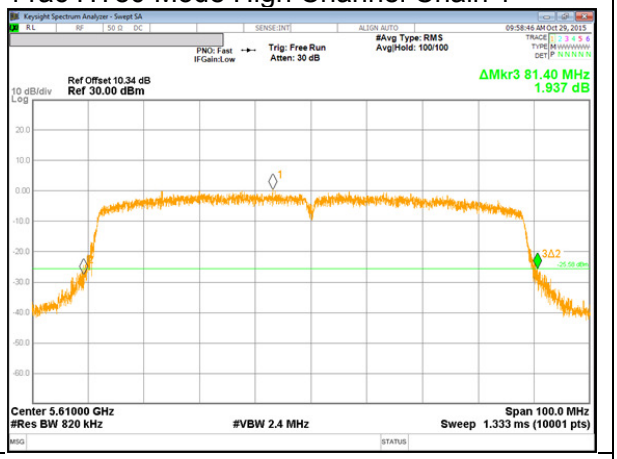
11ac HT80 Mode Low Channel Chain 1



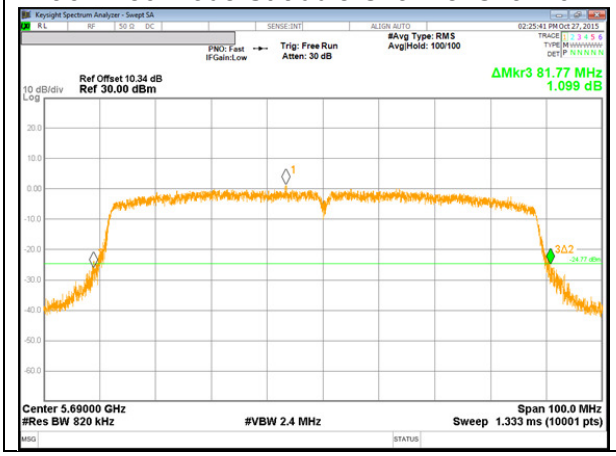
11ac HT80 Mode High Channel Chain 0



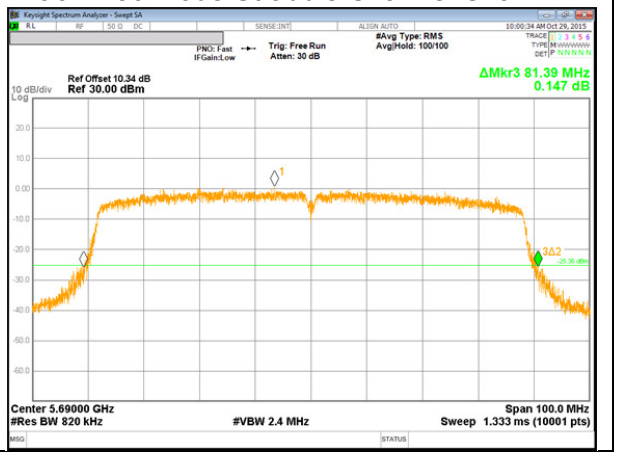
11ac HT80 Mode High Channel Chain 1



11ac HT80 Mode Straddle Channel Chain 0



11ac HT80 Mode Straddle Channel Chain 1



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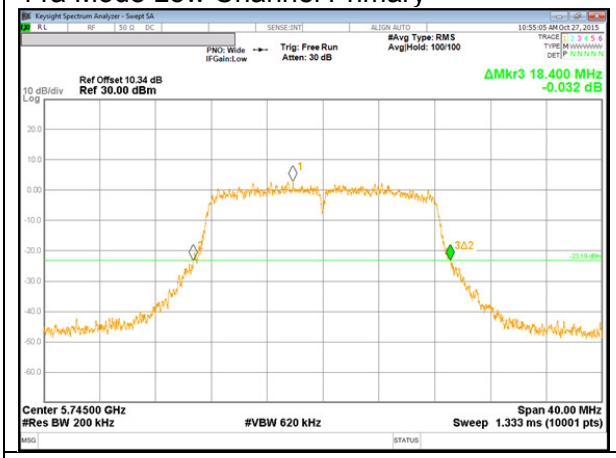
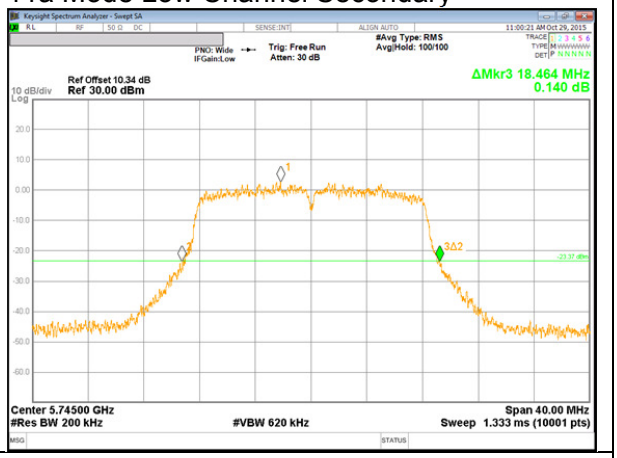
UNII 5.8 GHz IEEE 802.11a mode

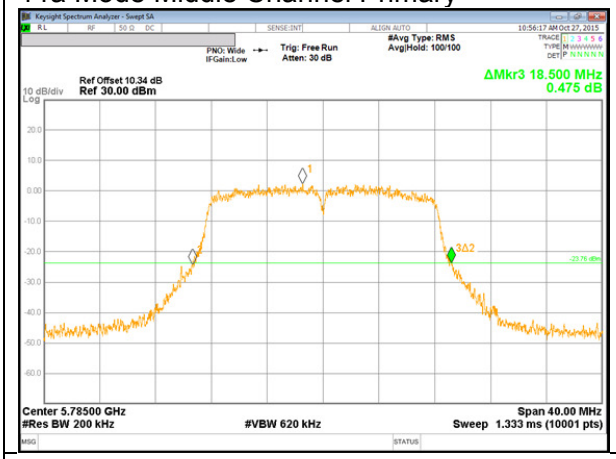
11a Mode Low Channel Primary



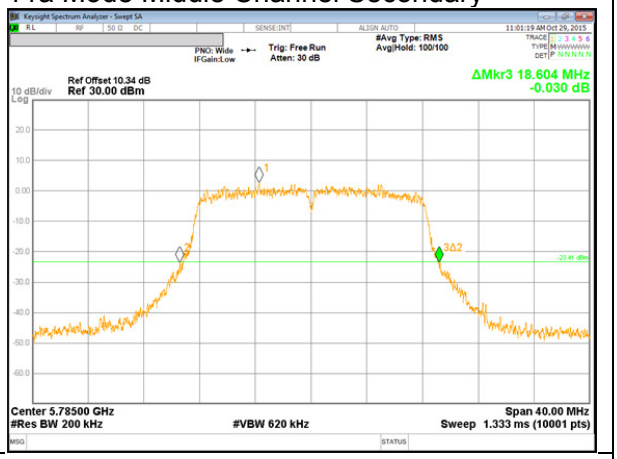
11a Mode Low Channel Secondary



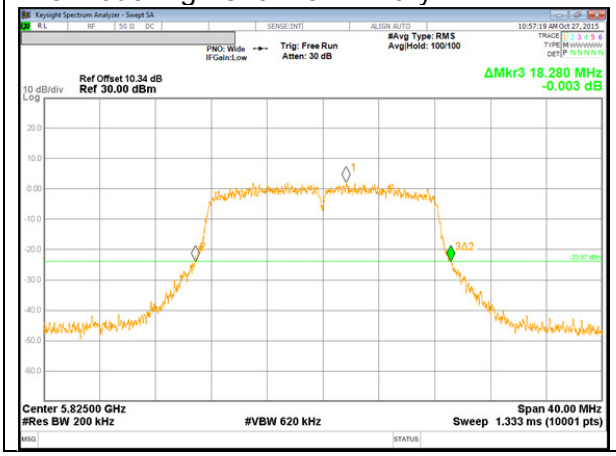
11a Mode Middle Channel Primary



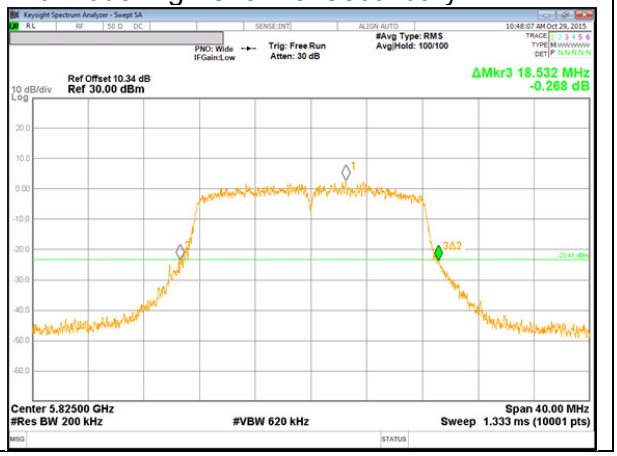
11a Mode Middle Channel Secondary



11a Mode High Channel Primary



11a Mode High Channel Secondary



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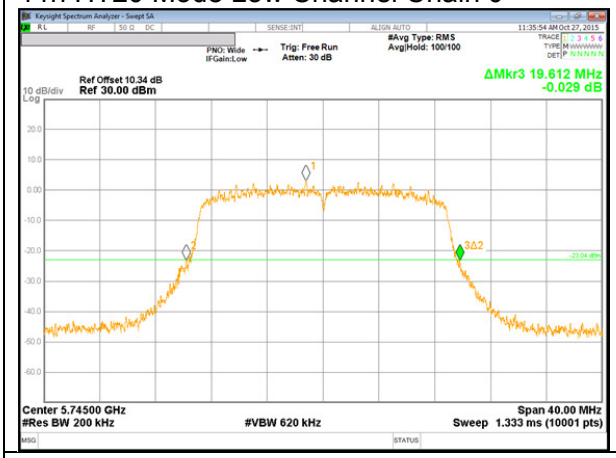
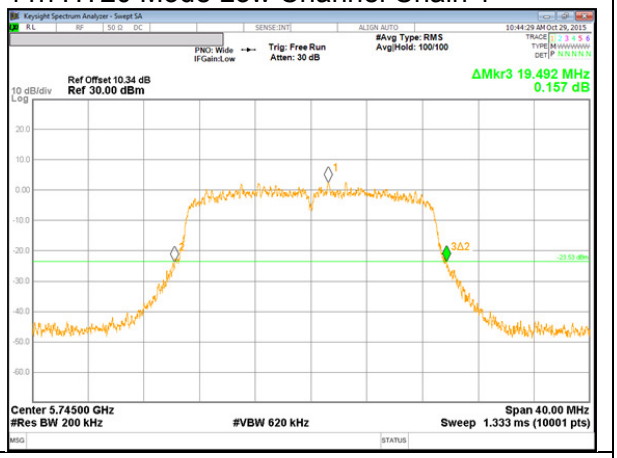
UNII 5.8 GHz IEEE 802.11n HT20 mode

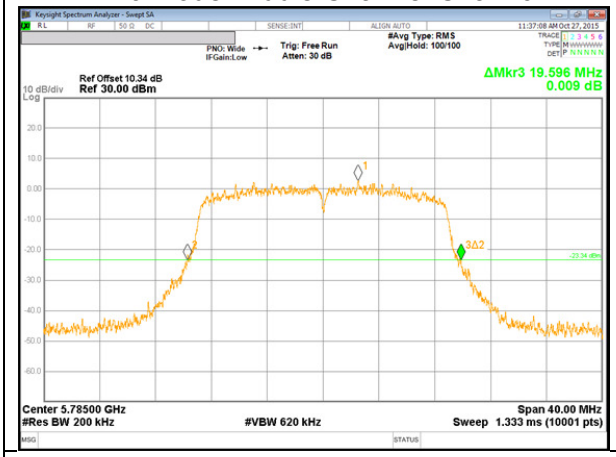
11n HT20 Mode Low Channel Chain 0



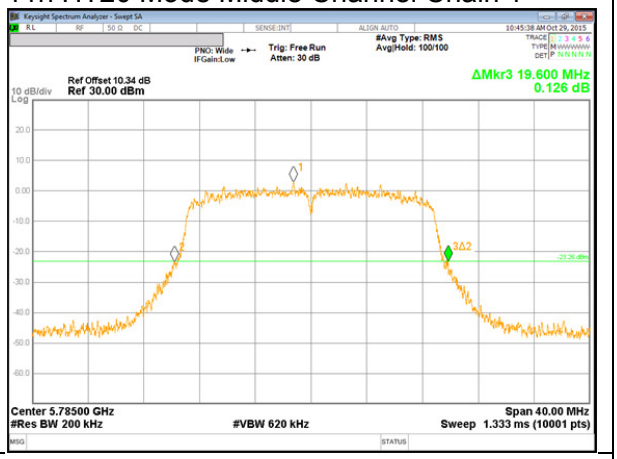
11n HT20 Mode Low Channel Chain 1



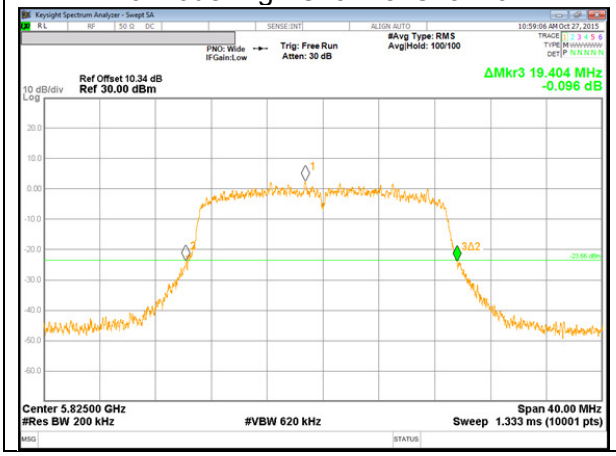
11n HT20 Mode Middle Channel Chain 0



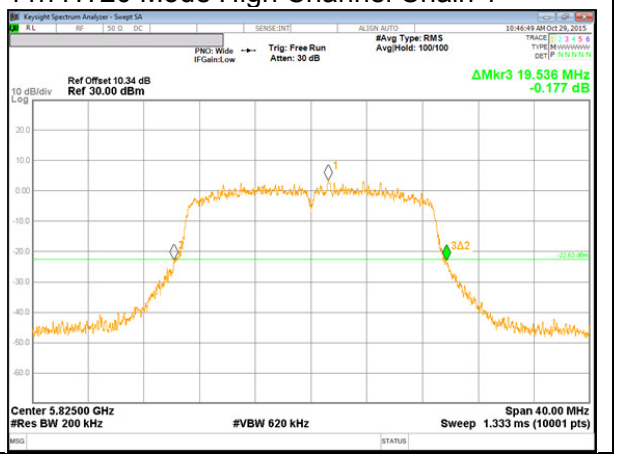
11n HT20 Mode Middle Channel Chain 1



11n HT20 Mode High Channel Chain 0



11n HT20 Mode High Channel Chain 1



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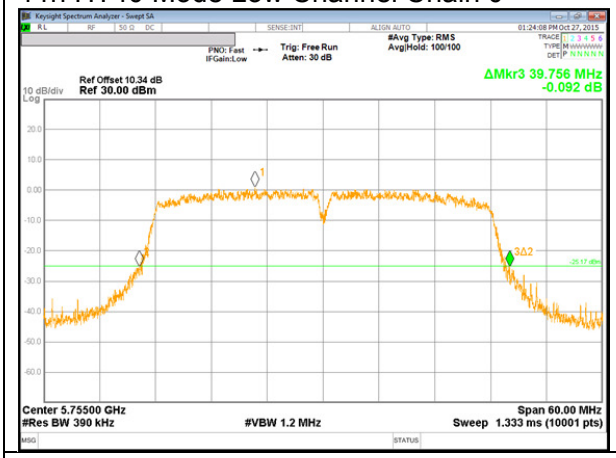
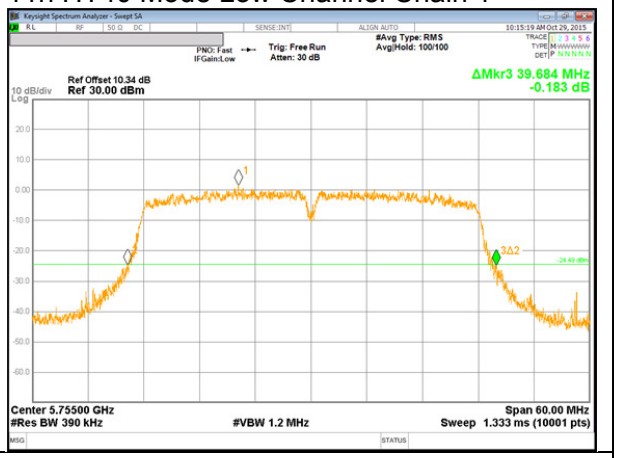
UNII 5.8 GHz IEEE 802.11n HT40 mode

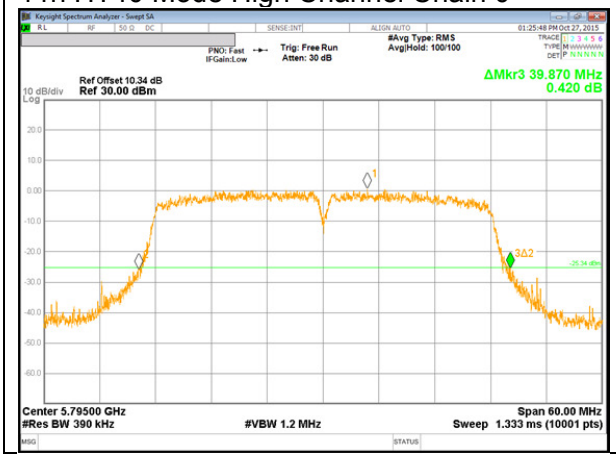
11n HT40 Mode Low Channel Chain 0



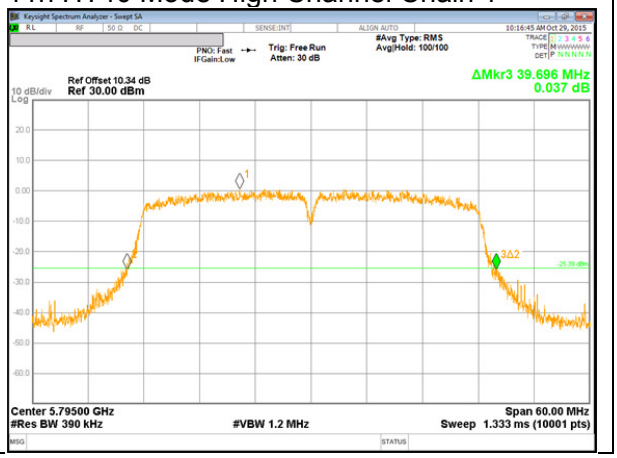
11n HT40 Mode Low Channel Chain 1



11n HT40 Mode High Channel Chain 0

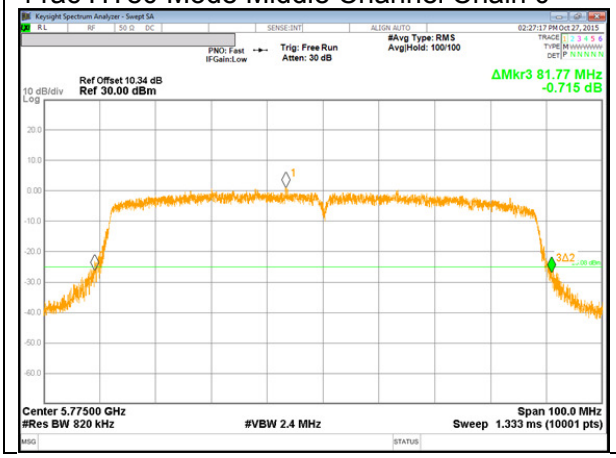


11n HT40 Mode High Channel Chain 1

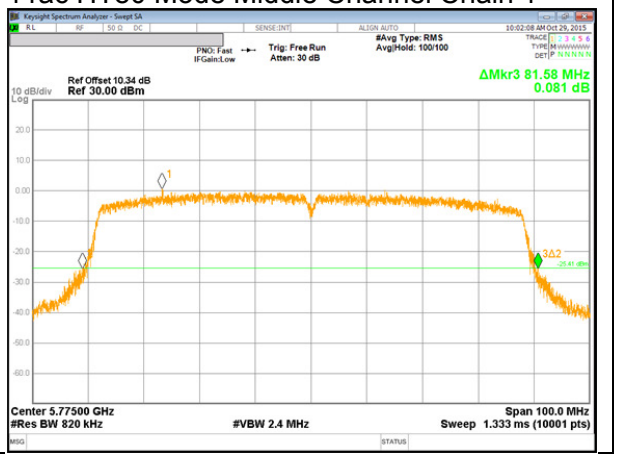


UNII 5.8 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel Chain 0



11ac HT80 Mode Middle Channel Chain 1



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10.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

- Calculation for 99% Bandwidth of UNII-2C and UNII-3 Straddle Channel

ex) 802.11a mode
  - Fundamental frequency : 5720MHz
  - 99% BW : 16.459MHz
  - Turning Frequency : 5725MHz
  - 99% Bandwidth of UNII-2C band Portion
    = (5725 – (5720 - (16.459 / 2)) = 13.229 MHz
  - 99% Bandwidth of UNII-3 band Portion
    = (5720 + (16.459 / 2) -5725) = 3.230 MHz

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10.3.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary	Secondary
Low	5180	16.304	16.317
Mid	5200	16.316	16.306
High	5240	16.330	16.307
Worst		16.330	

10.3.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5180	17.456	17.473
Mid	5200	17.445	17.492
High	5240	17.480	17.495
Worst		17.495	

10.3.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5190	35.837	35.937
High	5230	35.905	35.855
Worst		35.937	

10.3.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Middle	5210	75.044	74.912
Worst		75.044	

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10.3.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary	Secondary
Low	5260	16.306	16.294
Mid	5300	16.320	16.337
High	5320	16.312	16.289
Worst		16.337	

10.3.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5260	17.456	17.511
Mid	5300	17.452	17.436
High	5320	17.500	17.484
Worst		17.511	

10.3.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Low	5270	35.867	35.880
High	5310	35.836	35.782
Worst		35.880	

10.3.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Chain 0	Chain 1
Middle	5290	74.937	75.104
Worst		75.104	

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10.3.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary	Secondary
Low	5500	16.291	16.331
Mid	5580	16.323	16.298
High	5700	16.309	16.307
Straddle	5720	13.154	13.160
Worst		16.331	

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	17.471	17.475
Mid	5580	17.426	17.448
High	5700	17.505	17.412
Straddle	5720	13.715	13.755
Worst		17.505	

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	35.806	35.870
Mid	5550	35.829	35.953
High	5670	35.828	35.846
Straddle	5710	32.920	32.876
Worst		35.953	

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	75.014	74.893
High	5610	75.188	74.827
Straddle	5690	72.472	72.559
Worst		75.188	

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10.3.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]	
		Primary	Secondary
Straddle	5720	3.154	3.160
Low	5745	16.314	16.309
Mid	5785	16.335	16.316
High	5825	16.302	16.322
Worst		16.335	

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	3.716	3.755
Low	5745	17.464	17.498
Mid	5785	17.487	17.468
High	5825	17.500	17.477
Worst		17.500	

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	2.919	2.876
Low	5755	35.930	35.713
High	5795	35.850	35.939
Worst		35.939	

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	2.471	2.560
Middle	5775	75.118	74.942
Worst		75.118	

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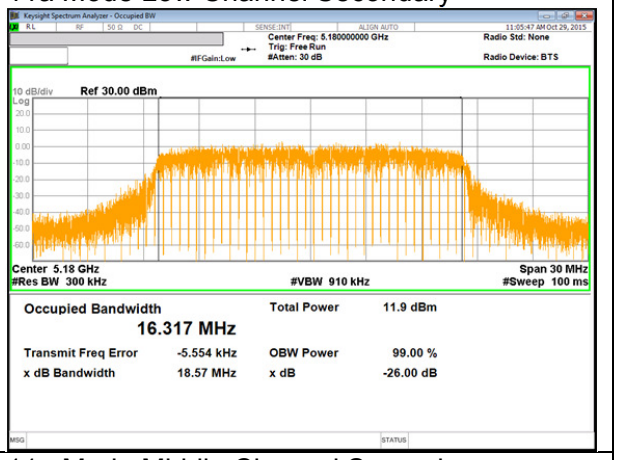
10.3.17. 99% BANDWIDTH PLOTS

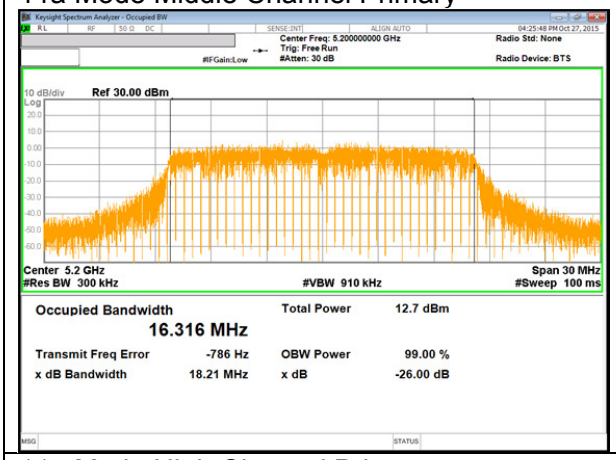
UNII 5.2 GHz IEEE 802.11a mode

11a Mode Low Channel Primary

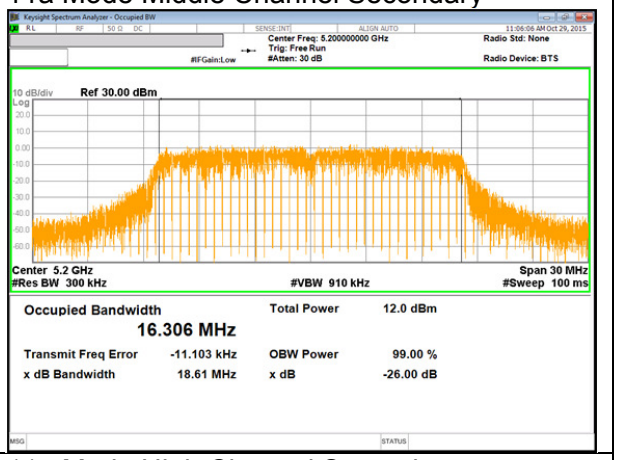
11a Mode Low Channel Secondary



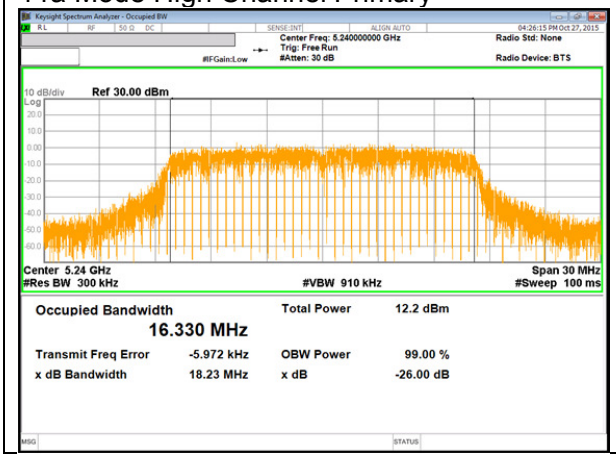
11a Mode Middle Channel Primary



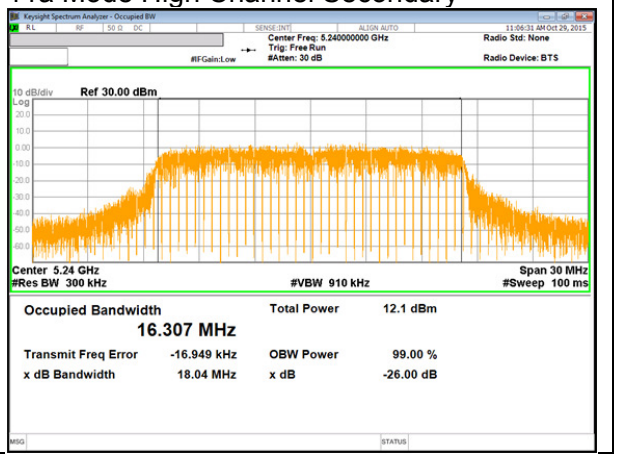
11a Mode Middle Channel Secondary



11a Mode High Channel Primary



11a Mode High Channel Secondary



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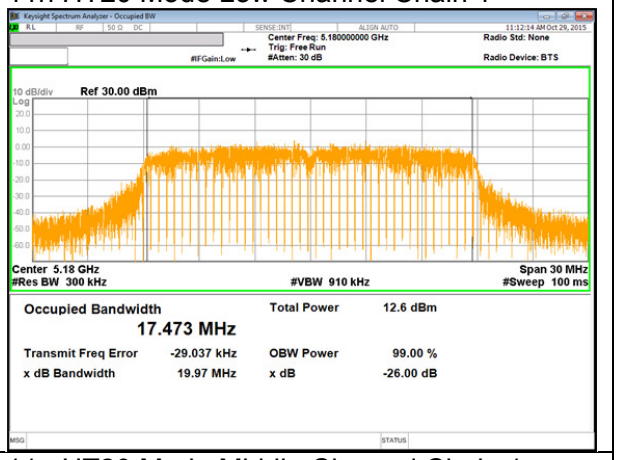
UNII 5.2 GHz IEEE 802.11n HT20 mode

11n HT20 Mode Low Channel Chain 0

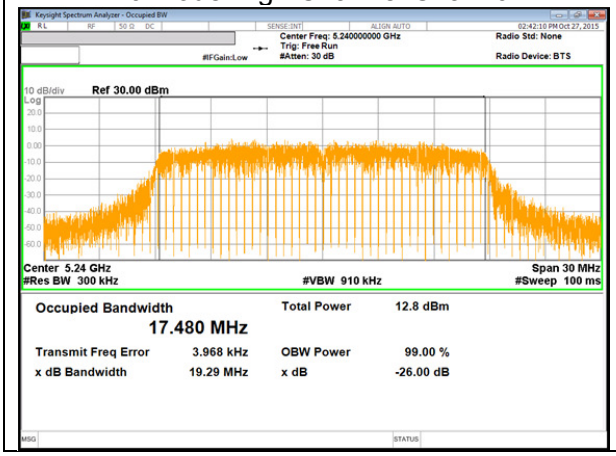
11n HT20 Mode Low Channel Chain 1



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

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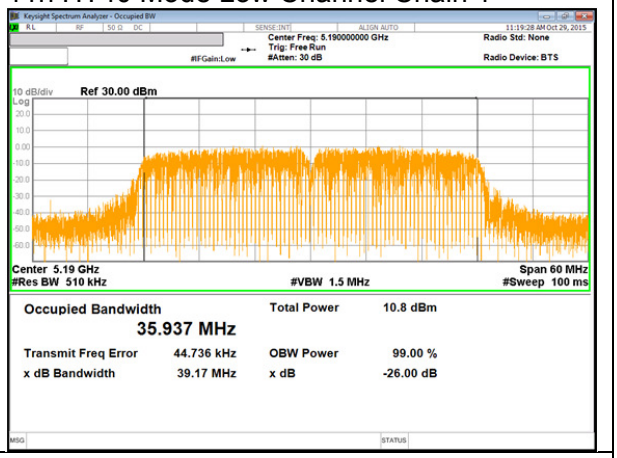
UNII 5.2 GHz IEEE 802.11n HT40 mode

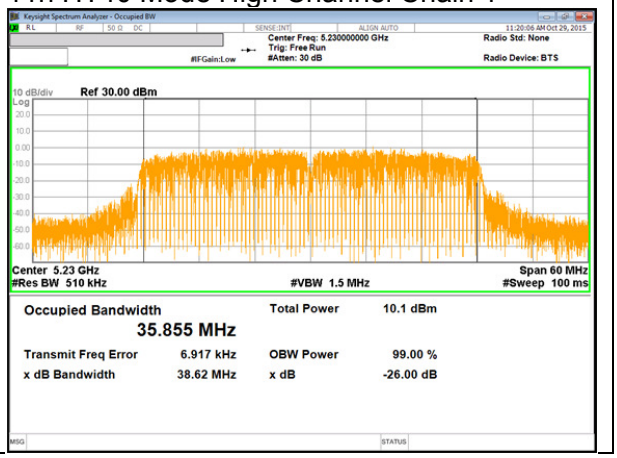
11n HT40 Mode Low Channel Chain 0

11n HT40 Mode Low Channel Chain 1



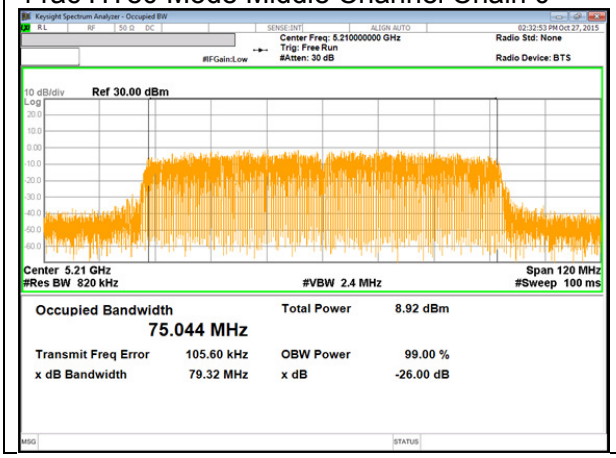
11n HT40 Mode High Channel Chain 0

11n HT40 Mode High Channel Chain 1

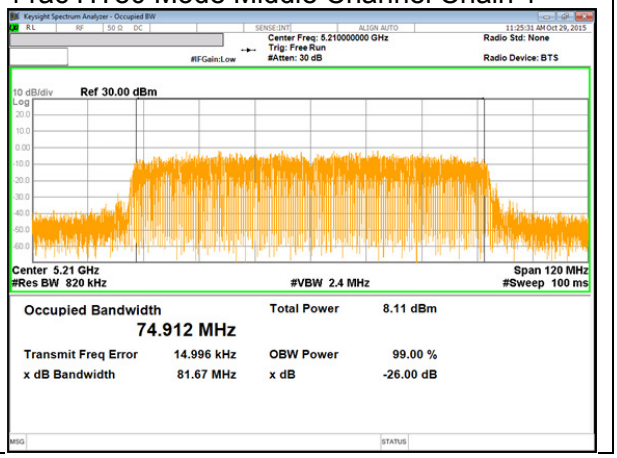


UNII 5.2 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel Chain 0



11ac HT80 Mode Middle Channel Chain 1



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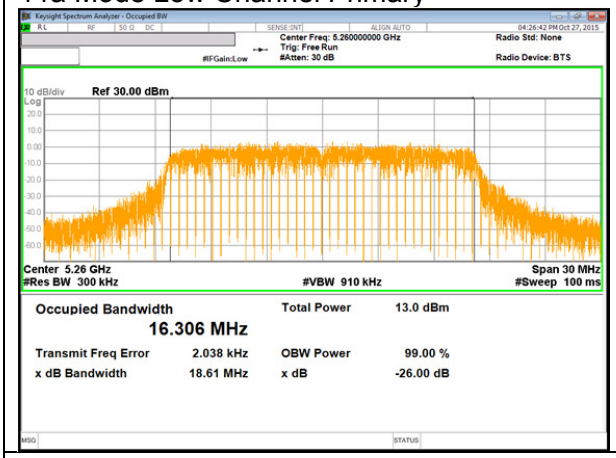
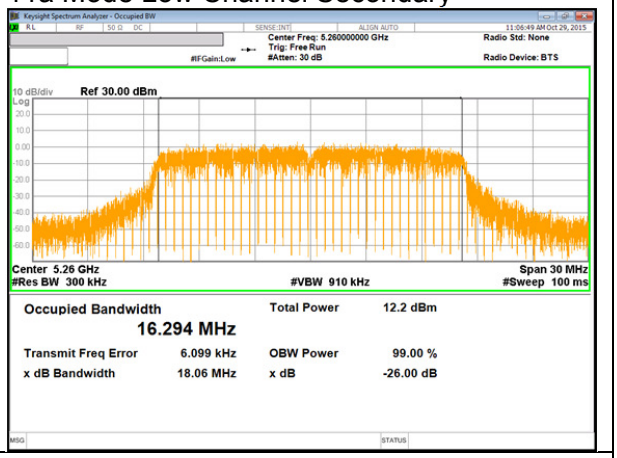
UNII 5.3 GHz IEEE 802.11a mode

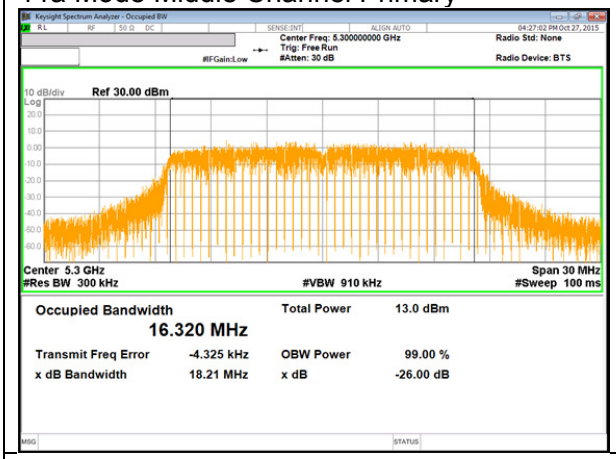
11a Mode Low Channel Primary



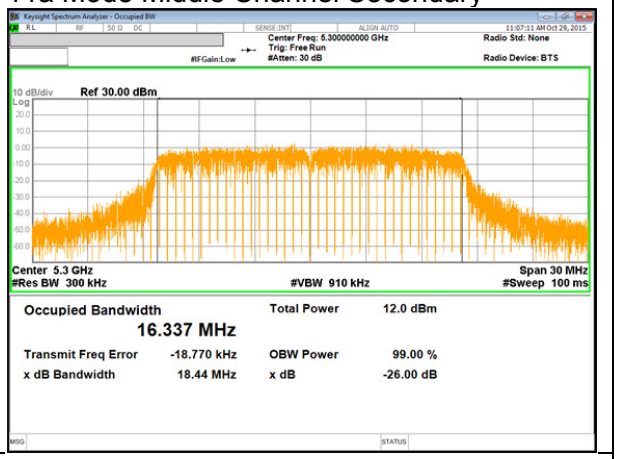
11a Mode Low Channel Secondary



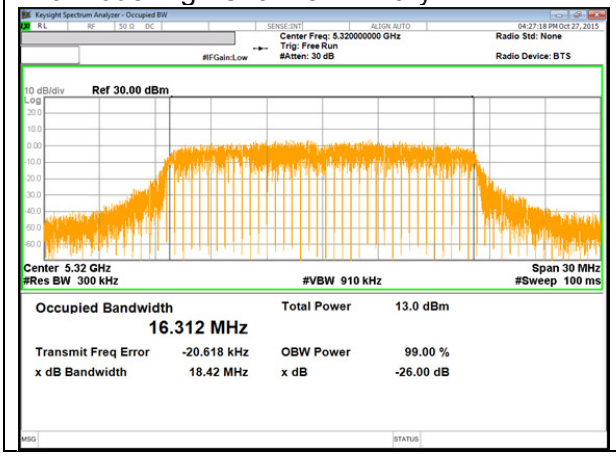
11a Mode Middle Channel Primary



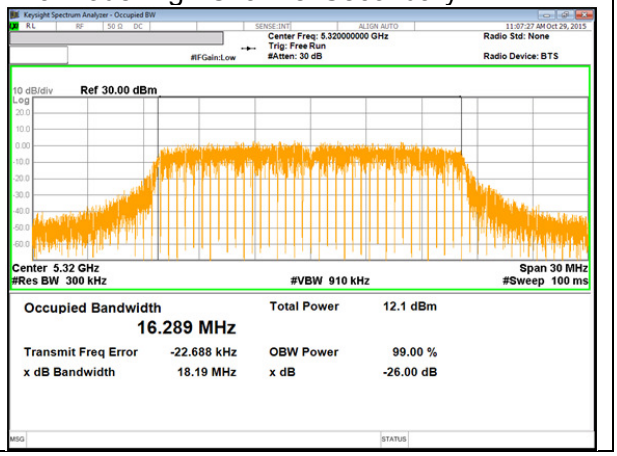
11a Mode Middle Channel Secondary



11a Mode High Channel Primary



11a Mode High Channel Secondary



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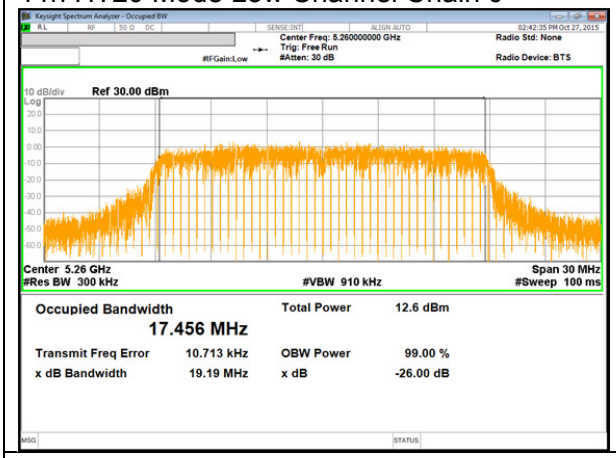
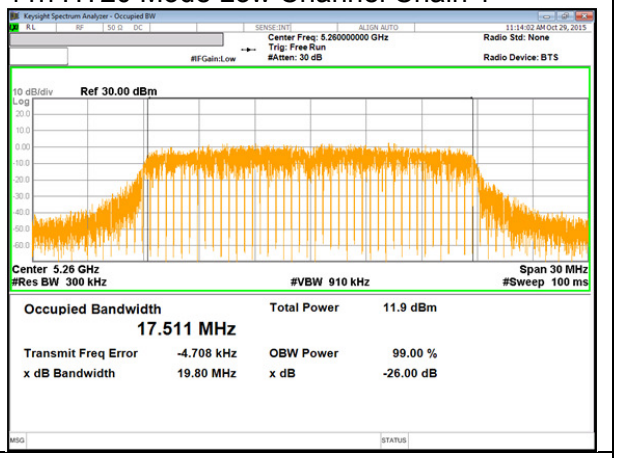
UNII 5.3 GHz IEEE 802.11n HT20 mode

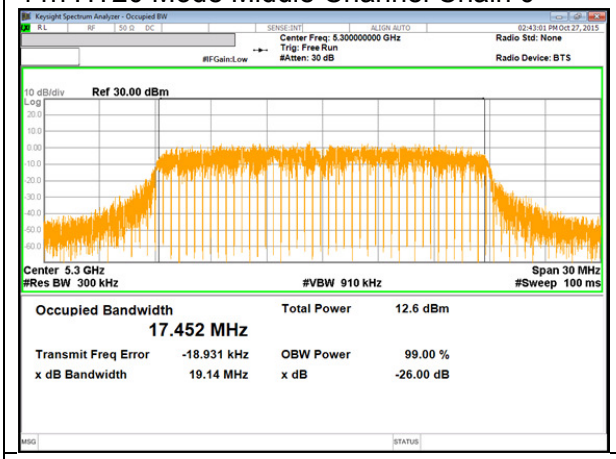
11n HT20 Mode Low Channel Chain 0



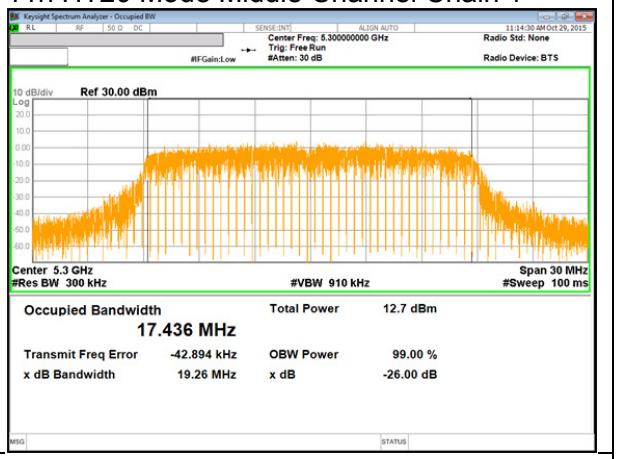
11n HT20 Mode Low Channel Chain 1



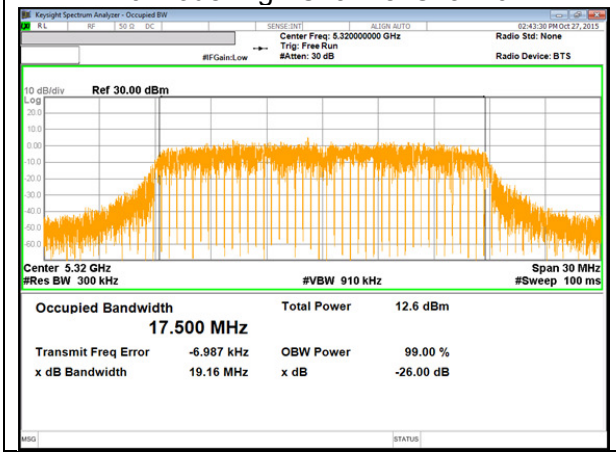
11n HT20 Mode Middle Channel Chain 0



11n HT20 Mode Middle Channel Chain 1



11n HT20 Mode High Channel Chain 0



11n HT20 Mode High Channel Chain 1

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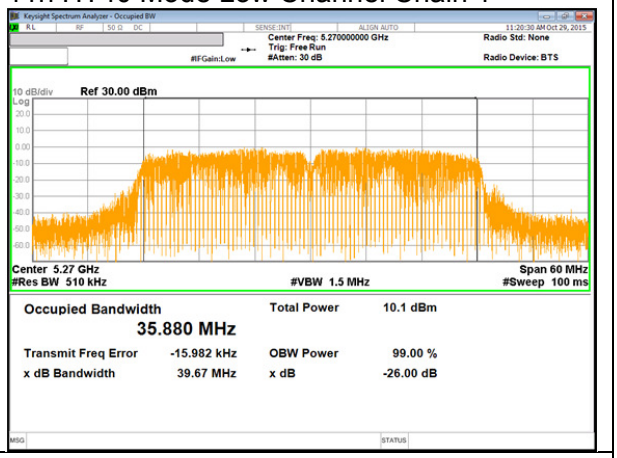
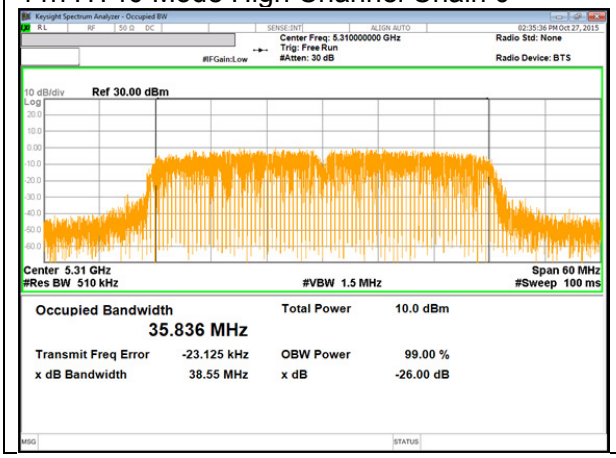
UNII 5.3 GHz IEEE 802.11n HT40 mode

11n HT40 Mode Low Channel Chain 0

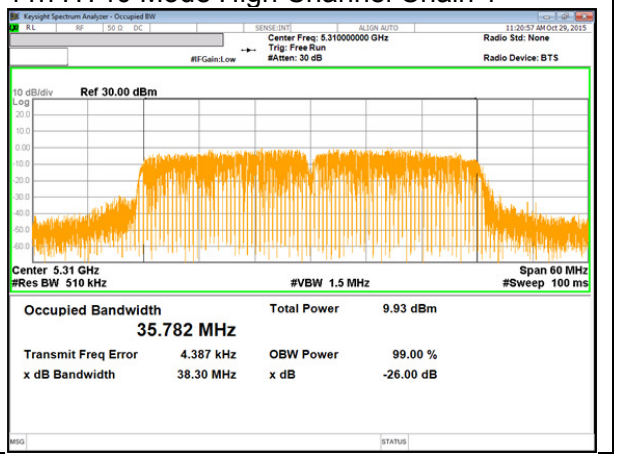
11n HT40 Mode Low Channel Chain 1



11n HT40 Mode High Channel Chain 0

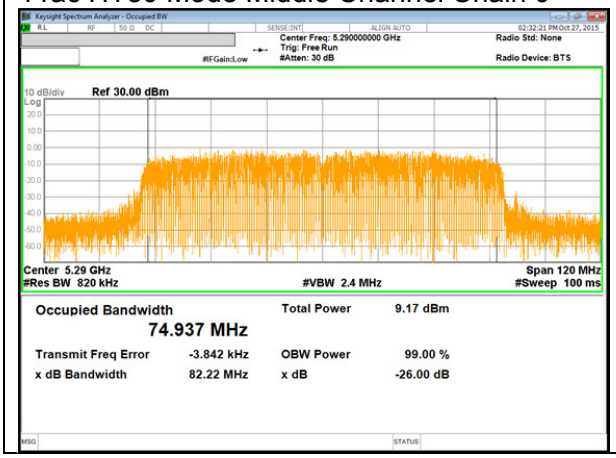


11n HT40 Mode High Channel Chain 1



UNII 5.3 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel Chain 0



11ac HT80 Mode Middle Channel Chain 1

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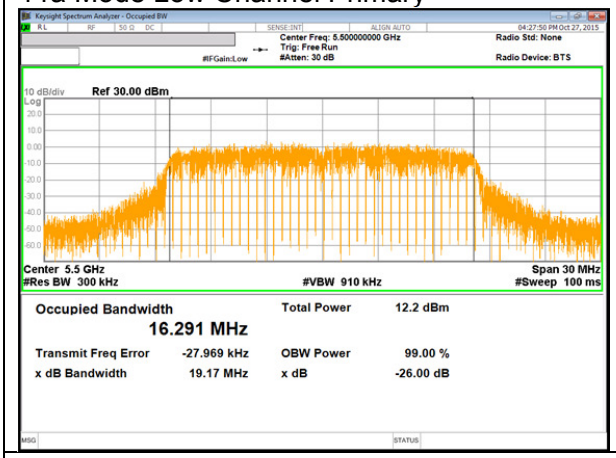
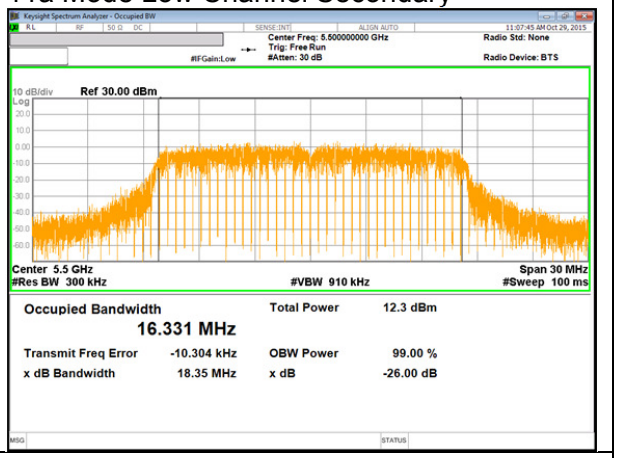
UNII 5.5 GHz IEEE 802.11a mode

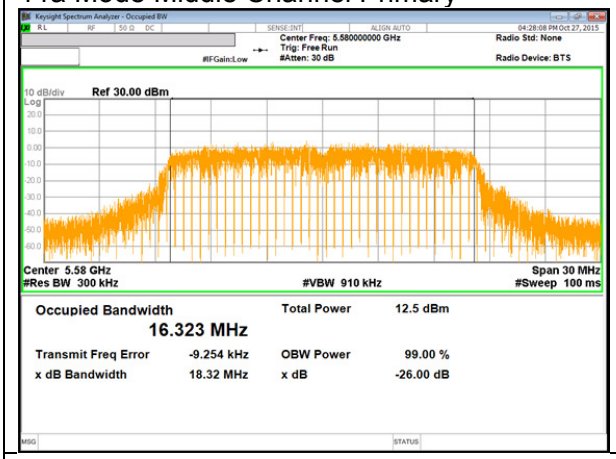
11a Mode Low Channel Primary



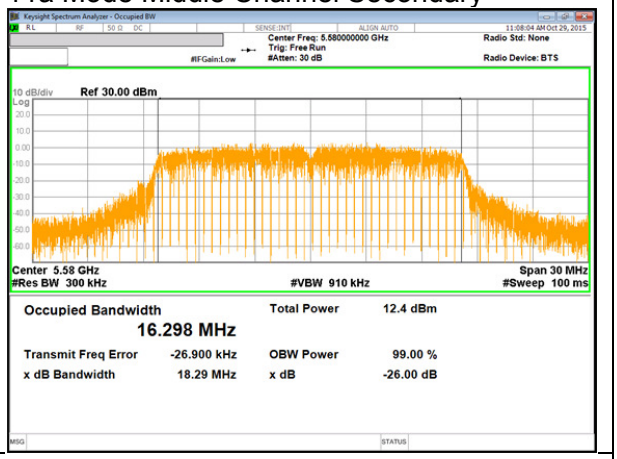
11a Mode Low Channel Secondary



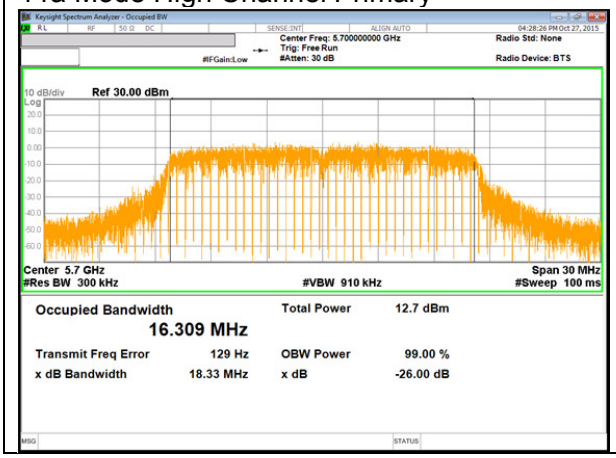
11a Mode Middle Channel Primary



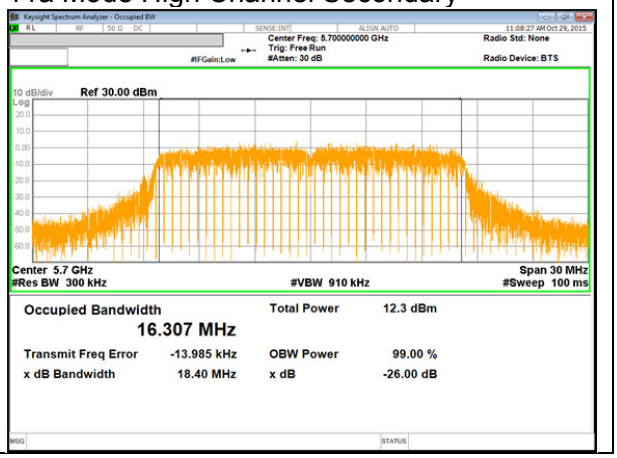
11a Mode Middle Channel Secondary



11a Mode High Channel Primary



11a Mode High Channel Secondary



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