

DUTY CYCLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST DESCRIPTION

The transmission pulse duration (T) and Duty Cycle (x) were measured for each of the EUT operating modes per the FCC KDB 789033 D01 General UNII Test Procedures.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, a duty cycle correction factor in dB can be calculated to add to power measurements if required in the method guidance.

$$10 * \text{LOG} (1/x) = \text{dB}$$

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Spectrum Analyzer	Agilent	N9010A	AFL	9/20/2014	9/20/2015
DC Block, 40 GHz	Fairview Microwave	SD3379	AMM	2/27/2015	2/27/2016
Attenuator, 20dB, 40 GHz	Fairview Microwave	SA4018-20	TQY	2/27/2015	2/27/2016
Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	7/15/2017

DUTY CYCLE

EUT:	Firebox T50-W (BS5AE7W)	Work Order:	VDEI0009
Serial Number:	70AF00069-3EB6	Date:	08/04/15
Customer:	WatchGuard Technologies, Inc.	Temperature:	25.7°C
Attendees:	None	Relative Humidity:	43%
Customer Project:	None	Bar. Pressure:	1014 mbar
Tested By:	Jonathan Kiefer	Job Site:	TX09
Power:	110VAC/60Hz	Configuration:	1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.407:2015	ANSI C63.10:2013

COMMENTS

2x2 MIMO mode, Chain AB (Chains 0 and 1).

DEVIATIONS FROM TEST STANDARD

None

RESULTS

				Number of Value Limit				Results
		Pulse Width	Period	Pulses	(%)	(%)		
Chain A								
802.11(n) HT, MCS0								
80 MHz								
	Low Channel 5210 MHz	219.823 us	320.1 us	1	68.7	N/A	N/A	
	Low Channel 5210 MHz	N/A	N/A	6	N/A	N/A	N/A	
	Low Channel 5775 MHz	218.023 us	317.6 us	1	68.6	N/A	N/A	
	Low Channel 5775 MHz	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) HT, MCS8								
20 MHz								
	Low Channel 5180 MHz	960.27 us	1.044 ms	1	92	N/A	N/A	
	Low Channel 5180 MHz	N/A	N/A	5	N/A	N/A	N/A	
	High Channel 5240 MHz	959.9 us	1.034 ms	1	92.9	N/A	N/A	
	High Channel 5240 MHz	N/A	N/A	5	N/A	N/A	N/A	
	Low Channel 5745 MHz	959.97 us	1.041 ms	1	92.3	N/A	N/A	
	Low Channel 5745 MHz	N/A	N/A	5	N/A	N/A	N/A	
	Mid Channel 5785 MHz	960 us	1.037 ms	1	92.6	N/A	N/A	
	Mid Channel 5785 MHz	N/A	N/A	6	N/A	N/A	N/A	
	High Channel 5825 MHz	960.37 us	1.039 ms	1	92.5	N/A	N/A	
	High Channel 5825 MHz	N/A	N/A	5	N/A	N/A	N/A	
40 MHz								
	Low Channel 5190 MHz	454.923 us	556.2 us	1	81.8	N/A	N/A	
	Low Channel 5190 MHz	N/A	N/A	6	N/A	N/A	N/A	
	High Channel 5230 MHz	454.867 us	556.7 us	1	81.7	N/A	N/A	
	High Channel 5230 MHz	N/A	N/A	6	N/A	N/A	N/A	
	Low Channel 5755 MHz	480.35 us	553.575 us	1	86.8	N/A	N/A	
	Low Channel 5755 MHz	N/A	N/A	6	N/A	N/A	N/A	
	High Channel 5795 MHz	454.567 us	543.5 us	1	83.6	N/A	N/A	
	High Channel 5795 MHz	N/A	N/A	5	N/A	N/A	N/A	
802.11(ac) VHT, MCS8 (256-QAM)								
20 MHz								

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			Number of Value Limit			Results
	Pulse Width	Period	Pulses	(%)	(%)	
Low Channel 5180 MHz	187.767 us	264.7 us	1	70.9	N/A	N/A
Low Channel 5180 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5240 MHz	186.502 us	262 us	1	71.2	N/A	N/A
High Channel 5240 MHz	N/A	N/A	5	N/A	N/A	N/A
Low Channel 5745 MHz	187.279 us	261.7 us	1	71.6	N/A	N/A
Low Channel 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 5785 MHz	187.335 us	264.7 us	1	70.8	N/A	N/A
Mid Channel 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5825 MHz	185.082 us	260.576 us	1	71	N/A	N/A
High Channel 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(ac) VHT, MCS9 (256-QAM)						
80 MHz						
Low Channel 5210 MHz	52.212 us	154 us	1	33.9	N/A	N/A
Low Channel 5210 MHz	N/A	N/A	6	N/A	N/A	N/A
Low Channel 5775 MHz	56.112 us	138.2 us	1	40.6	N/A	N/A
Low Channel 5775 MHz	N/A	N/A	5	N/A	N/A	N/A
40 MHz						
Low Channel 5190 MHz	80.412 us	176.8 us	1	45.5	N/A	N/A
Low Channel 5190 MHz	N/A	N/A	4	N/A	N/A	N/A
High Channel 5230 MHz	79.823 us	180.9 us	1	44.1	N/A	N/A
High Channel 5230 MHz	N/A	N/A	6	N/A	N/A	N/A
Low Channel 5755 MHz	74.179 us	173.3 us	1	42.8	N/A	N/A
Low Channel 5755 MHz	N/A	N/A	6	N/A	N/A	N/A
High Channel 5795 MHz	80.556 us	177.5 us	1	45.4	N/A	N/A
High Channel 5795 MHz	N/A	N/A	4	N/A	N/A	N/A
802.11(n) HT, MCS15						
20 MHz						
Low Channel 5180 MHz	127.623 us	204.3 us	1	62.5	N/A	N/A
Low Channel 5180 MHz	N/A	N/A	6	N/A	N/A	N/A
High Channel 5240 MHz	125.814 us	403.188 us	1	31.2	N/A	N/A
High Channel 5240 MHz	N/A	N/A	9	N/A	N/A	N/A
Low Channel 5745 MHz	126.935 us	201.4 us	1	63	N/A	N/A
Low Channel 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 5785 MHz	127.912 us	204.3 us	1	62.6	N/A	N/A
Mid Channel 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5825 MHz	126.447 us	205.8 us	1	61.4	N/A	N/A
High Channel 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
40 MHz						
Low Channel 5190 MHz	54.667 us	160.2 us	1	34.1	N/A	N/A
Low Channel 5190 MHz	N/A	N/A	6	N/A	N/A	N/A
High Channel 5230 MHz	55.167 us	156.5 us	1	35.3	N/A	N/A
High Channel 5230 MHz	N/A	N/A	4	N/A	N/A	N/A
Low Channel 5755 MHz	54.712 us	153.6 us	1	35.6	N/A	N/A
Low Channel 5755 MHz	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE

				Number of Value Limit			Results
		Pulse Width	Period	Pulses	(%)	(%)	
High Channel 5795 MHz		79.917 us	156.3 us	1	51.1	N/A	N/A
High Channel 5795 MHz		N/A	N/A	5	N/A	N/A	N/A
Chain B							
802.11(n) HT, MCS0							
80 MHz							
Low Channel 5210 MHz		218.279 us	324.2 us	1	67.3	N/A	N/A
Low Channel 5210 MHz		N/A	N/A	5	N/A	N/A	N/A
Low Channel 5775 MHz		218.812 us	317.9 us	1	68.8	N/A	N/A
Low Channel 5775 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(n) HT, MCS8							
20 MHz							
Low Channel 5180 MHz		959.17 us	1.044 ms	1	91.9	N/A	N/A
Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 5240 MHz		959.3 us	1.034 ms	1	92.7	N/A	N/A
High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
Low Channel 5745 MHz		958.53 us	1.034 ms	1	92.7	N/A	N/A
Low Channel 5745 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 5785 MHz		959.57 us	1.088 ms	1	88.2	N/A	N/A
Mid Channel 5785 MHz		N/A	N/A	6	N/A	N/A	N/A
High Channel 5825 MHz		959.17 us	1.034 ms	1	92.7	N/A	N/A
High Channel 5825 MHz		N/A	N/A	6	N/A	N/A	N/A
40 MHz							
Low Channel 5190 MHz		454.935 us	556.5 us	1	81.7	N/A	N/A
Low Channel 5190 MHz		N/A	N/A	6	N/A	N/A	N/A
High Channel 5230 MHz		454.923 us	556.5 us	1	81.7	N/A	N/A
High Channel 5230 MHz		N/A	N/A	6	N/A	N/A	N/A
Low Channel 5755 MHz		454.623 us	553.3 us	1	82.2	N/A	N/A
Low Channel 5755 MHz		N/A	N/A	6	N/A	N/A	N/A
High Channel 5795 MHz		455.312 us	556.4 us	1	81.8	N/A	N/A
High Channel 5795 MHz		N/A	N/A	6	N/A	N/A	N/A
802.11(ac) VHT, MCS8 (256-QAM)							
20 MHz							
Low Channel 5180 MHz		187.267 us	264.9 us	1	70.7	N/A	N/A
Low Channel 5180 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 5240 MHz		187.023 us	262 us	1	71.4	N/A	N/A
High Channel 5240 MHz		N/A	N/A	5	N/A	N/A	N/A
Low Channel 5745 MHz		186.091 us	266.2 us	1	69.9	N/A	N/A
Low Channel 5745 MHz		N/A	N/A	4	N/A	N/A	N/A
Mid Channel 5785 MHz		187.512 us	268.6 us	1	69.8	N/A	N/A
Mid Channel 5785 MHz		N/A	N/A	4	N/A	N/A	N/A
High Channel 5825 MHz		187.312 us	261.7 us	1	71.6	N/A	N/A
High Channel 5825 MHz		N/A	N/A	6	N/A	N/A	N/A
802.11(ac) VHT, MCS9 (256-QAM)							
80 MHz							

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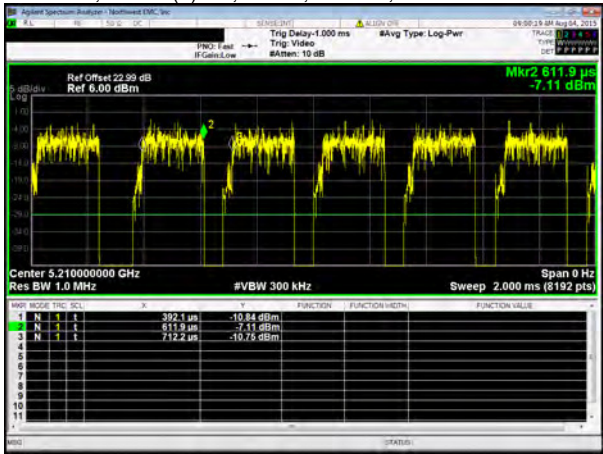
			Number of Value Limit			Results
	Pulse Width	Period	Pulses	(%)	(%)	
Low Channel 5210 MHz	38.612 us	140.4 us	1	27.5	N/A	N/A
Low Channel 5210 MHz	N/A	N/A	5	N/A	N/A	N/A
Low Channel 5775 MHz	39.723 us	137.4 us	1	28.9	N/A	N/A
Low Channel 5775 MHz	N/A	N/A	5	N/A	N/A	N/A
40 MHz						
Low Channel 5190 MHz	74.967 us	176.6 us	1	42.5	N/A	N/A
Low Channel 5190 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5230 MHz	74.167 us	176.5 us	1	42	N/A	N/A
High Channel 5230 MHz	N/A	N/A	6	N/A	N/A	N/A
Low Channel 5755 MHz	74.667 us	173.8 us	1	43	N/A	N/A
Low Channel 5755 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5795 MHz	80.612 us	180.5 us	1	44.7	N/A	N/A
High Channel 5795 MHz	N/A	N/A	4	N/A	N/A	N/A
802.11(n) HT, MCS15						
20 MHz						
Low Channel 5180 MHz	127.512 us	204.6 us	1	62.3	N/A	N/A
Low Channel 5180 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5240 MHz	959.57 us	1.041 ms	1	92.2	N/A	N/A
High Channel 5240 MHz	N/A	N/A	5	N/A	N/A	N/A
Low Channel 5745 MHz	126.879 us	201.4 us	1	63	N/A	N/A
Low Channel 5745 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 5785 MHz	126.779 us	204.4 us	1	62	N/A	N/A
Mid Channel 5785 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5825 MHz	127.712 us	201.255 us	1	63.5	N/A	N/A
High Channel 5825 MHz	N/A	N/A	5	N/A	N/A	N/A
40 MHz						
Low Channel 5190 MHz	55.123 us	157 us	1	35.1	N/A	N/A
Low Channel 5190 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 5230 MHz	60.067 us	156.2 us	1	38.5	N/A	N/A
High Channel 5230 MHz	N/A	N/A	5	N/A	N/A	N/A
Low Channel 5755 MHz	55.367 us	157.7 us	1	35.1	N/A	N/A
Low Channel 5755 MHz	N/A	N/A	3	N/A	N/A	N/A
High Channel 5795 MHz	55.956 us	156.5 us	1	35.8	N/A	N/A
High Channel 5795 MHz	N/A	N/A	5	N/A	N/A	N/A

Jonathan Kiefer

Tested By

DUTY CYCLE

Chain A, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



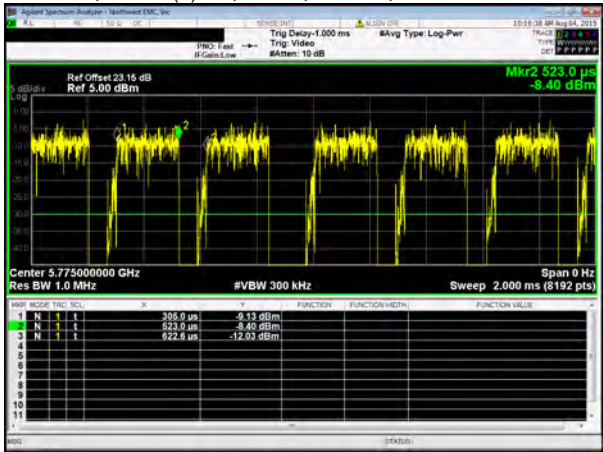
Pulse Width	219.823 us
Period	320.1 us
Number of Pulses	1
Value (%)	68.7
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



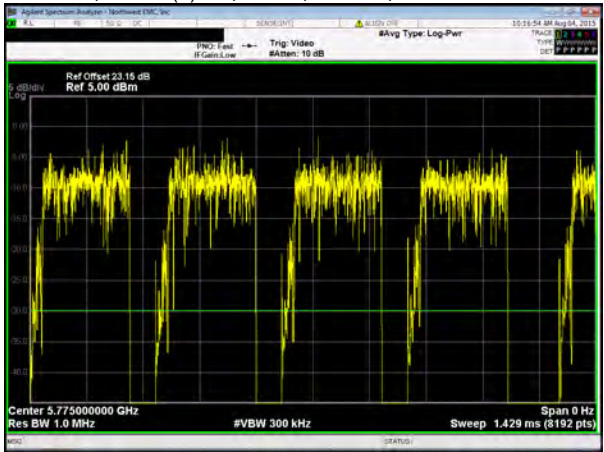
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



Pulse Width	218.023 us
Period	317.6 us
Number of Pulses	1
Value (%)	68.6
Limit (%)	N/A
Results	N/A

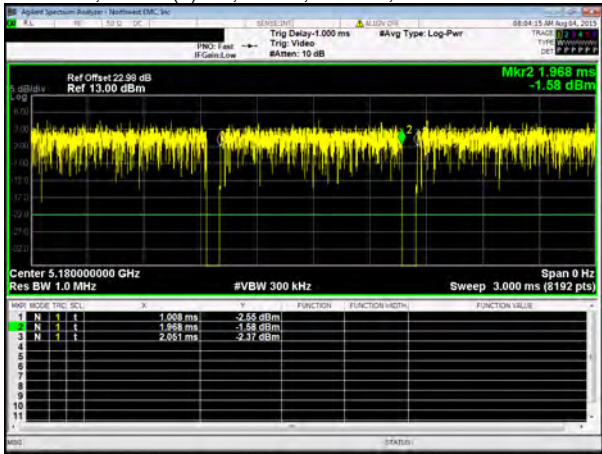
Chain A, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

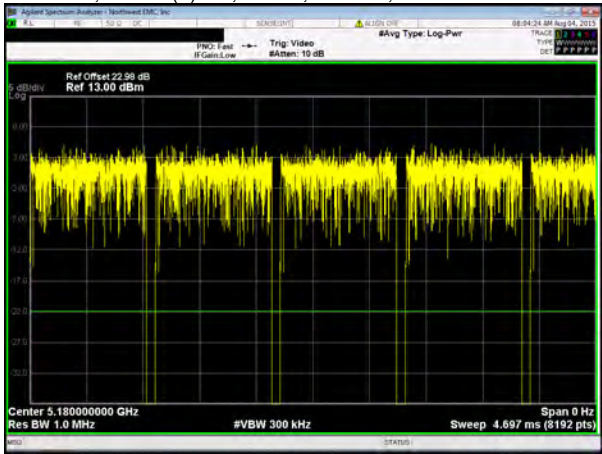
DUTY CYCLE

Chain A, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5180 MHz



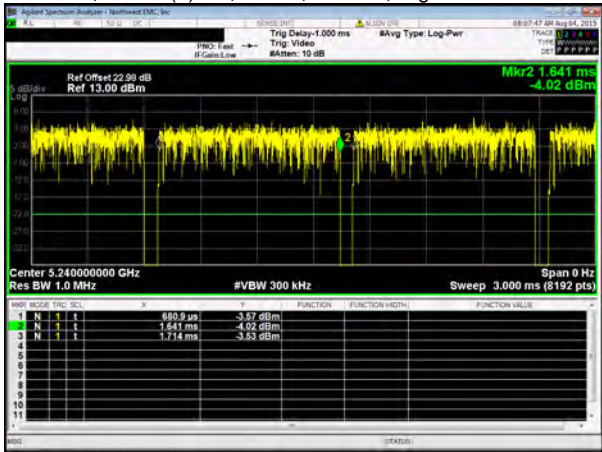
Pulse Width	960.27 us
Period	1.044 ms
Number of Pulses	1
Value (%)	92
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5180 MHz



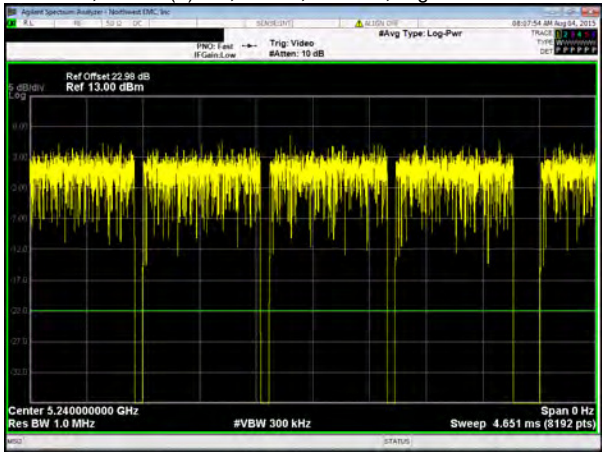
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 20 MHz, High Channel 5240 MHz



Pulse Width	959.9 us
Period	1.034 ms
Number of Pulses	1
Value (%)	92.9
Limit (%)	N/A
Results	N/A

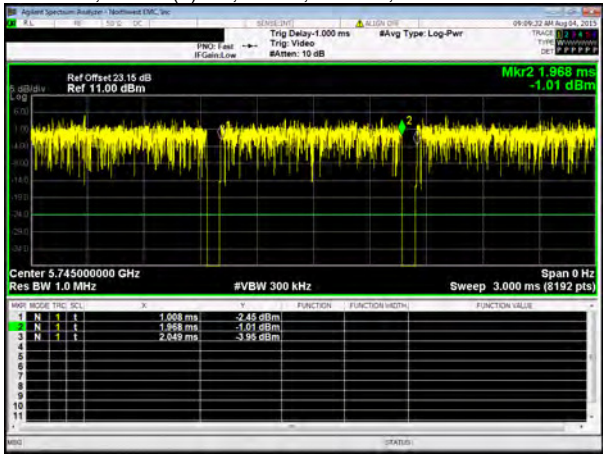
Chain A, 802.11(n) HT, MCS8, 20 MHz, High Channel 5240 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

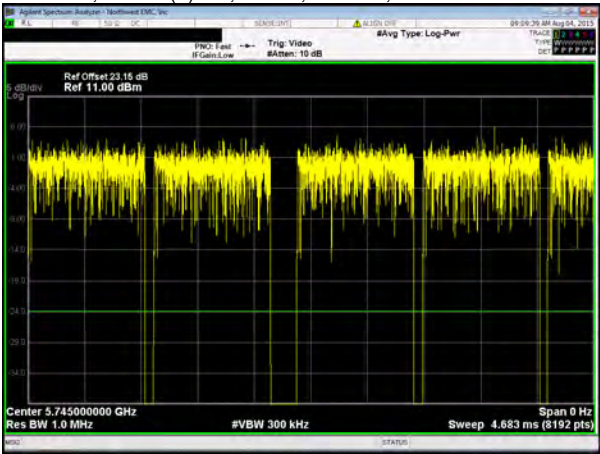
DUTY CYCLE

Chain A, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5745 MHz



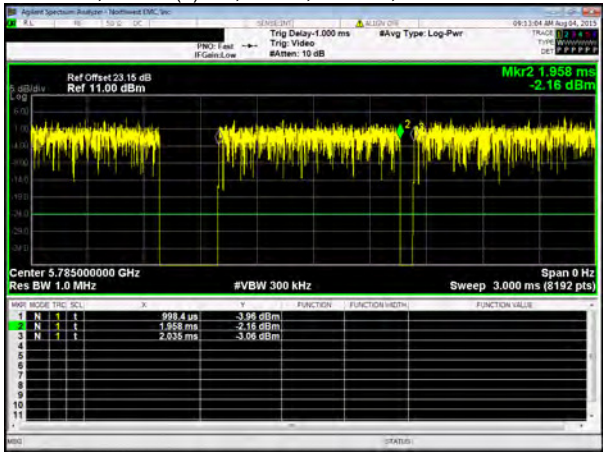
Pulse Width	959.97 us
Period	1.041 ms
Number of Pulses	1
Value (%)	92.3
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5745 MHz



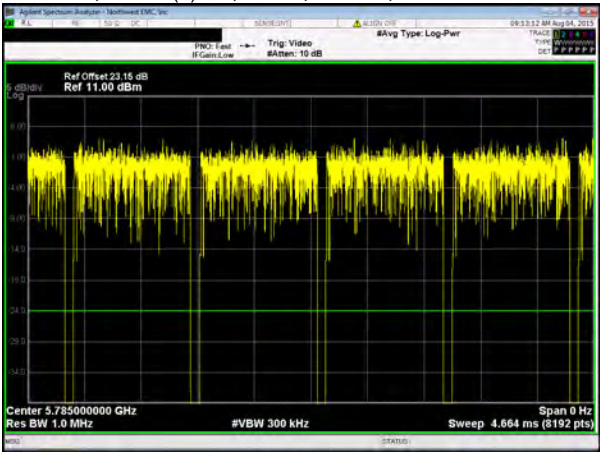
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 20 MHz, Mid Channel 5785 MHz



Pulse Width	960 us
Period	1.037 ms
Number of Pulses	1
Value (%)	92.6
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 20 MHz, Mid Channel 5785 MHz

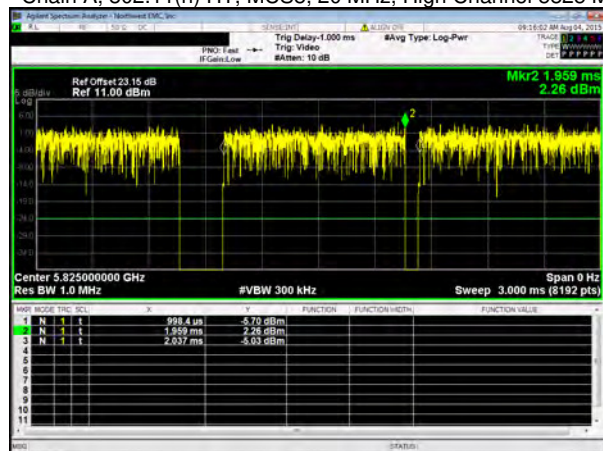


Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

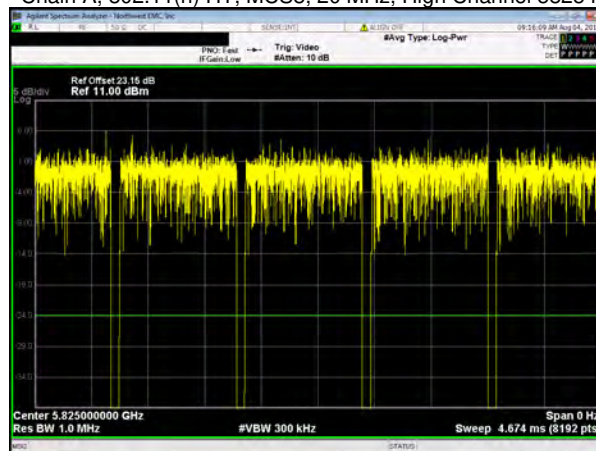
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Chain A, 802.11(n) HT, MCS8, 20 MHz, High Channel 5825 MHz

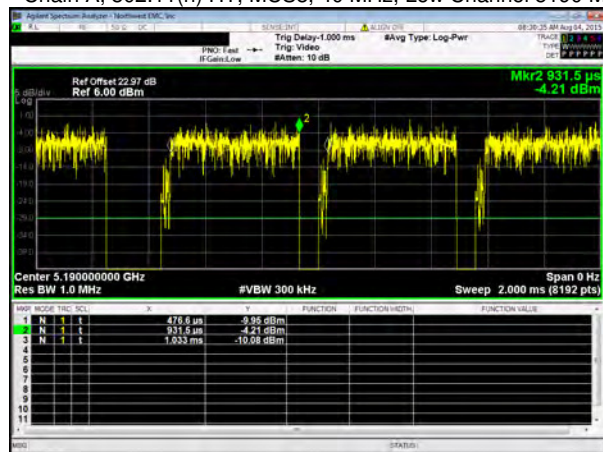


Pulse Width	960.37 us
Period	1.039 ms
Number of Pulses	1
Value (%)	92.5
Limit (%)	N/A
Results	N/A

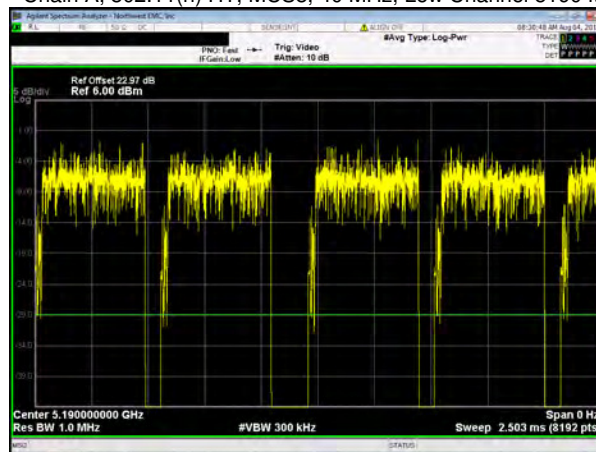


Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5190 MHz



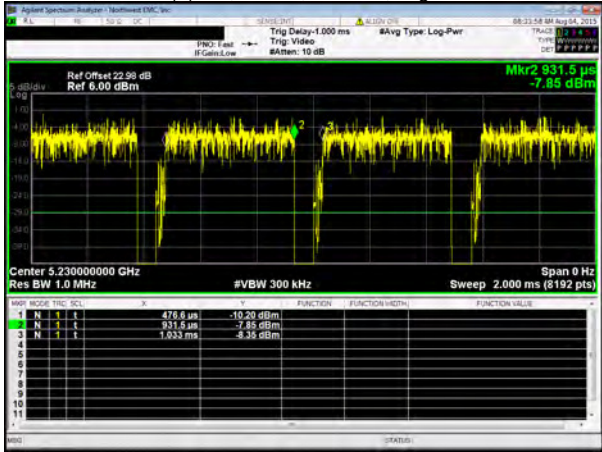
Pulse Width	454.923 us
Period	556.2 us
Number of Pulses	1
Value (%)	81.8
Limit (%)	N/A
Results	N/A



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

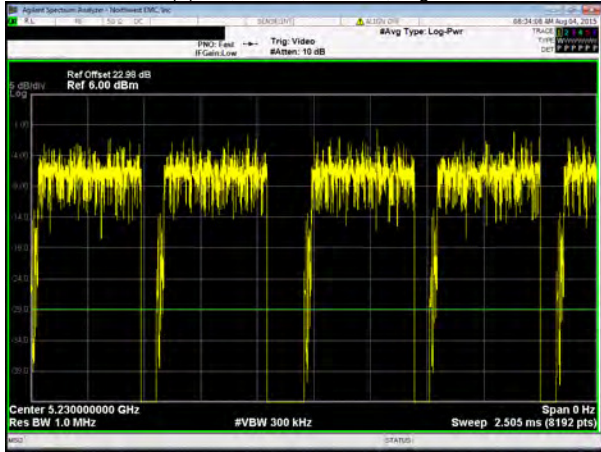
DUTY CYCLE

Chain A, 802.11(n) HT, MCS8, 40 MHz, High Channel 5230 MHz



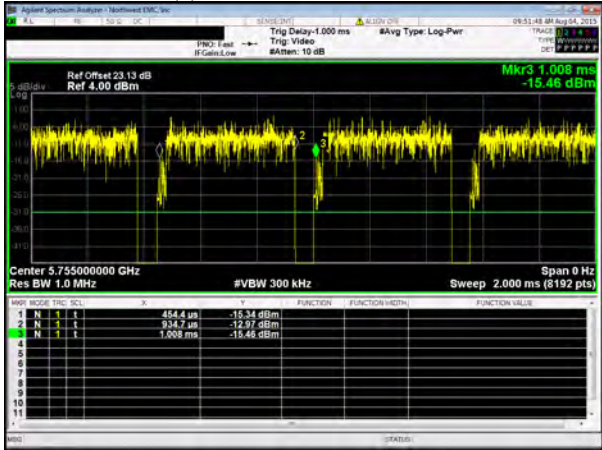
Pulse Width	454.867 us
Period	556.7 us
Number of Pulses	1
Value (%)	81.7
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 40 MHz, High Channel 5230 MHz



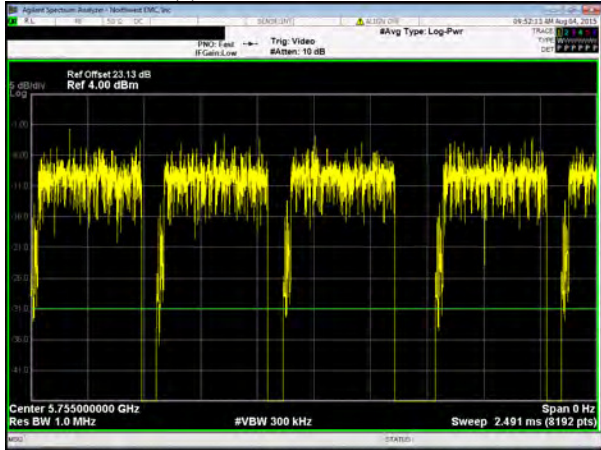
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5755 MHz



Pulse Width	480.35 us
Period	553.575 us
Number of Pulses	1
Value (%)	86.8
Limit (%)	N/A
Results	N/A

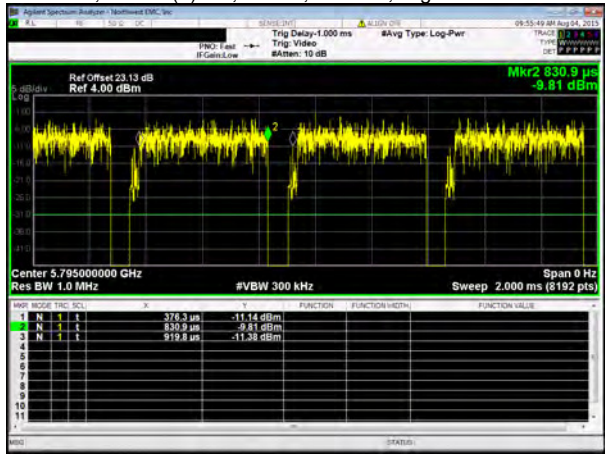
Chain A, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5755 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

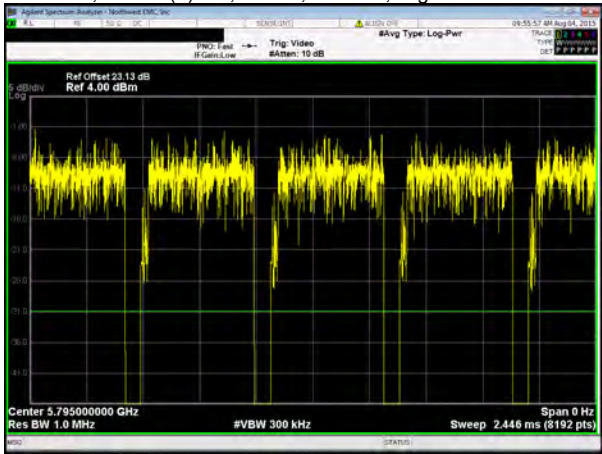
DUTY CYCLE

Chain A, 802.11(n) HT, MCS8, 40 MHz, High Channel 5795 MHz



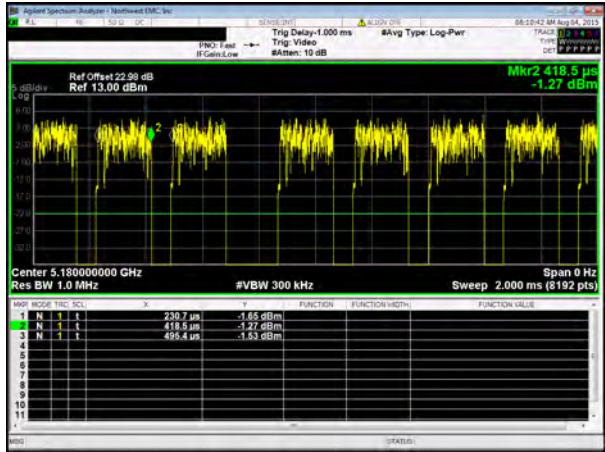
Pulse Width	454.567 us
Period	543.5 us
Number of Pulses	1
Value (%)	83.6
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS8, 40 MHz, High Channel 5795 MHz



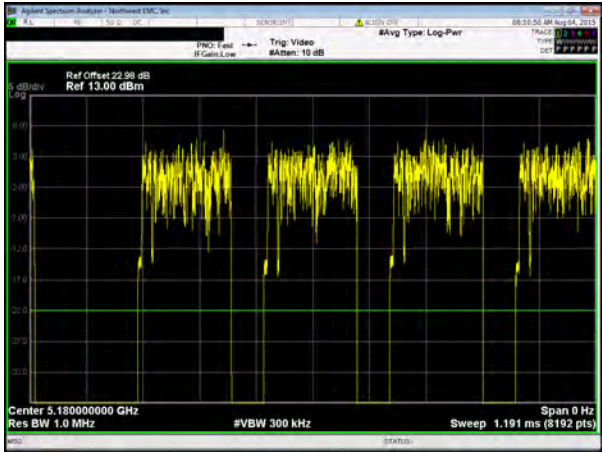
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5180 MHz



Pulse Width	187.767 us
Period	264.7 us
Number of Pulses	1
Value (%)	70.9
Limit (%)	N/A
Results	N/A

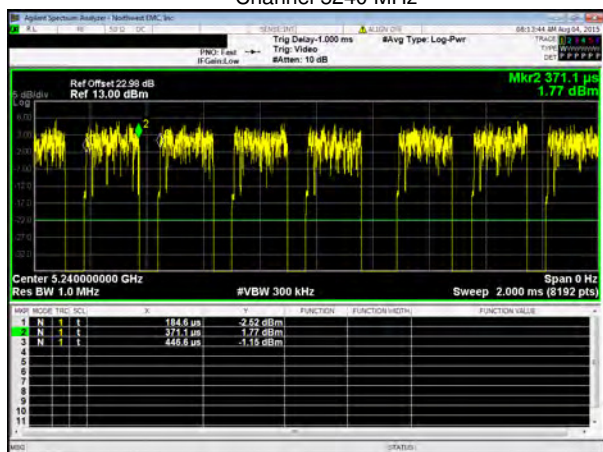
Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5180 MHz



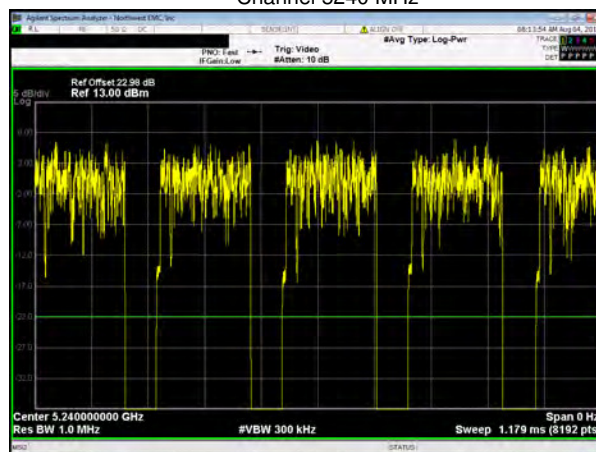
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

**NORTHWEST
EMC**

Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5240 MHz

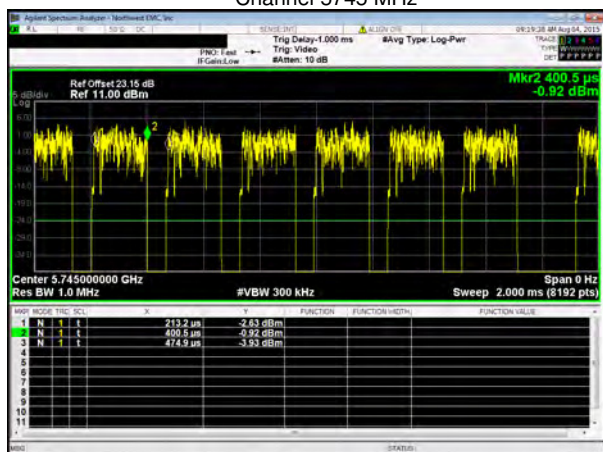


Pulse Width	186.502 us
Period	262 us
Number of Pulses	1
Value (%)	71.2
Limit (%)	N/A
Results	N/A



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low
Channel 5745 MHz



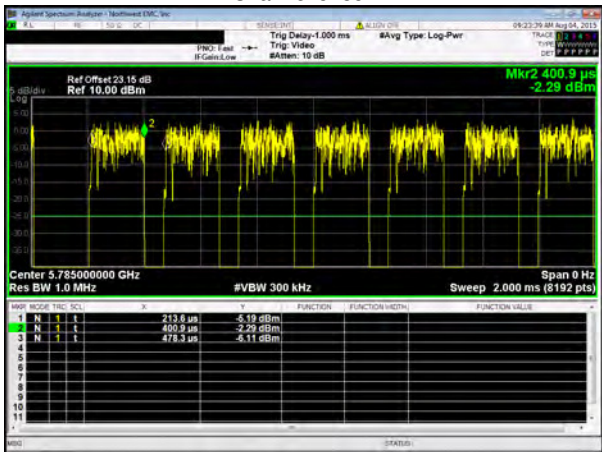
Pulse Width	187.279 us
Period	261.7 us
Number of Pulses	1
Value (%)	71.6
Limit (%)	N/A
Results	N/A



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

DUTY CYCLE

Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid
Channel 5785 MHz



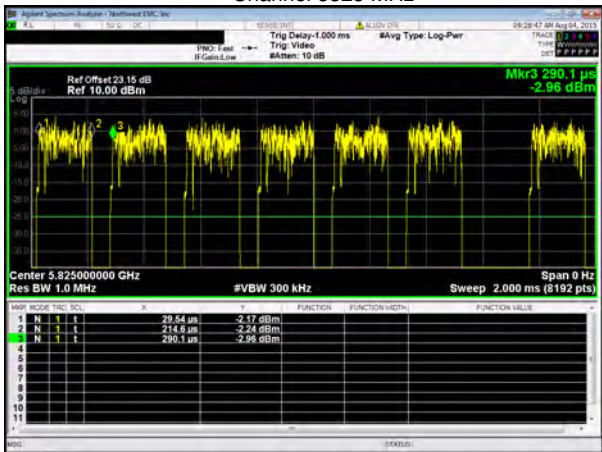
Pulse Width	187.335 us
Period	264.7 us
Number of Pulses	1
Value (%)	70.8
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid
Channel 5785 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5825 MHz



Pulse Width	185.082 us
Period	260.576 us
Number of Pulses	1
Value (%)	71
Limit (%)	N/A
Results	N/A

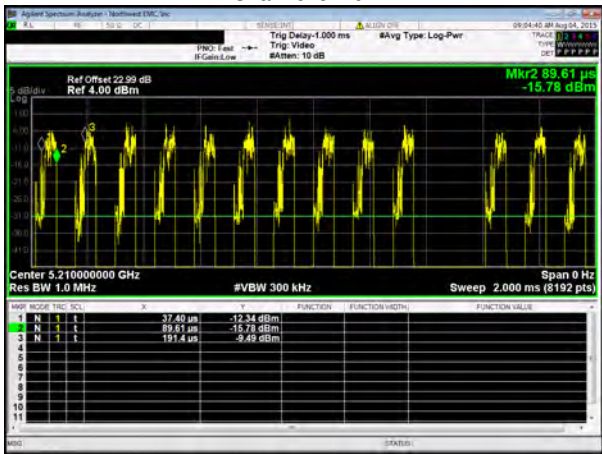
Chain A, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5825 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

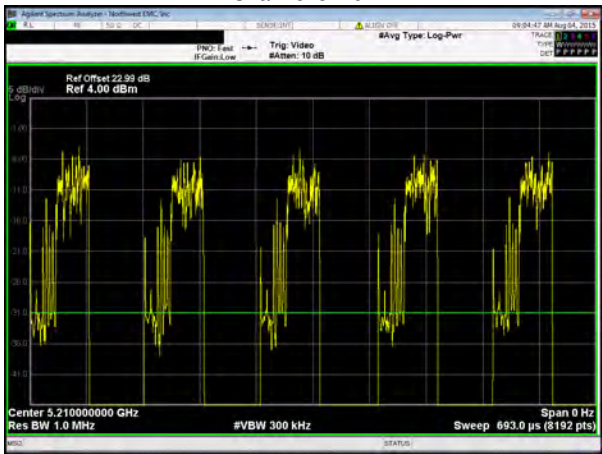
DUTY CYCLE

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5210 MHz



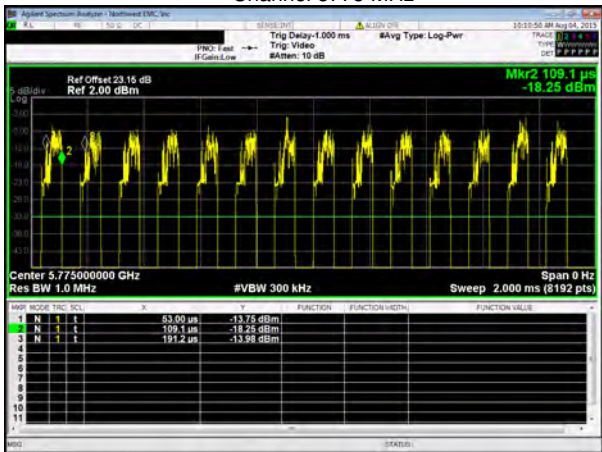
Pulse Width	52.212 us
Period	154 us
Number of Pulses	1
Value (%)	33.9
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5210 MHz



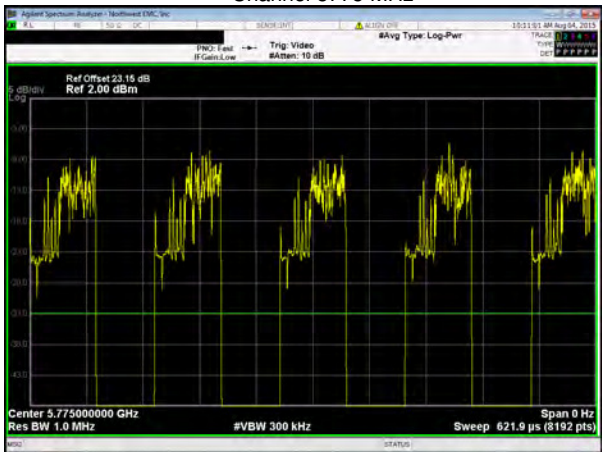
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5775 MHz



Pulse Width	56.112 us
Period	138.2 us
Number of Pulses	1
Value (%)	40.6
Limit (%)	N/A
Results	N/A

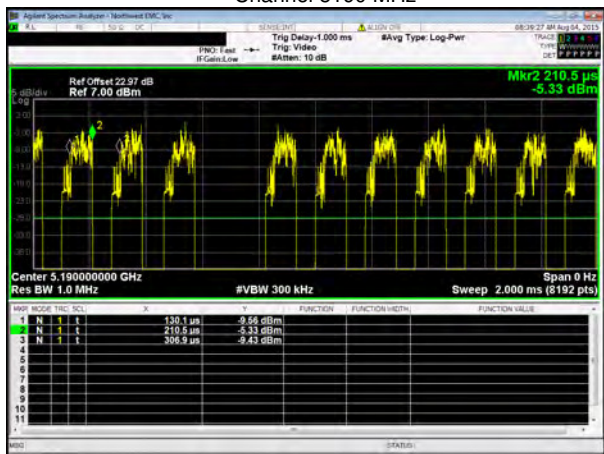
Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5775 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

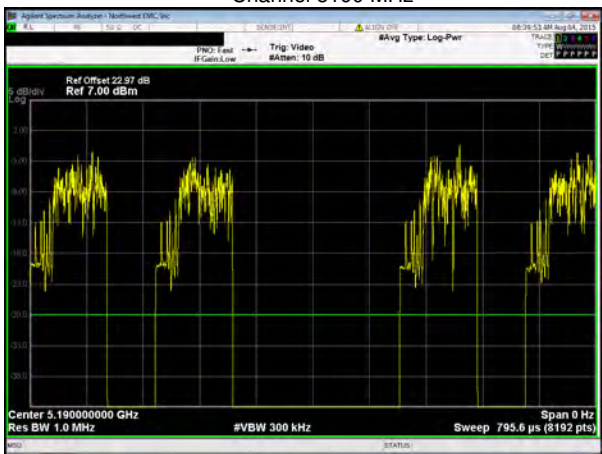
DUTY CYCLE

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5190 MHz



Pulse Width	80.412 us
Period	176.8 us
Number of Pulses	1
Value (%)	45.5
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5190 MHz



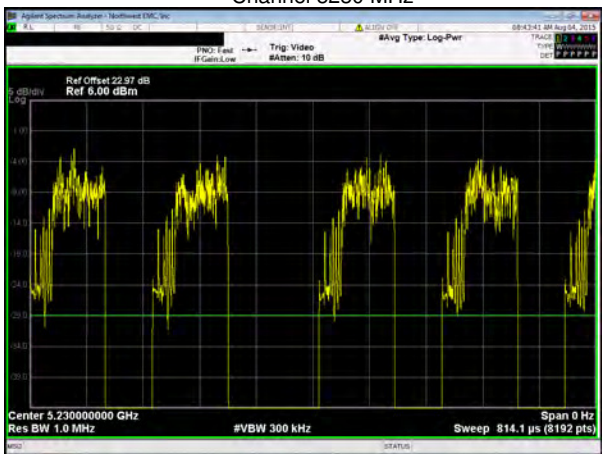
Pulse Width	N/A
Period	N/A
Number of Pulses	4
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5230 MHz



Pulse Width	79.823 us
Period	180.9 us
Number of Pulses	1
Value (%)	44.1
Limit (%)	N/A
Results	N/A

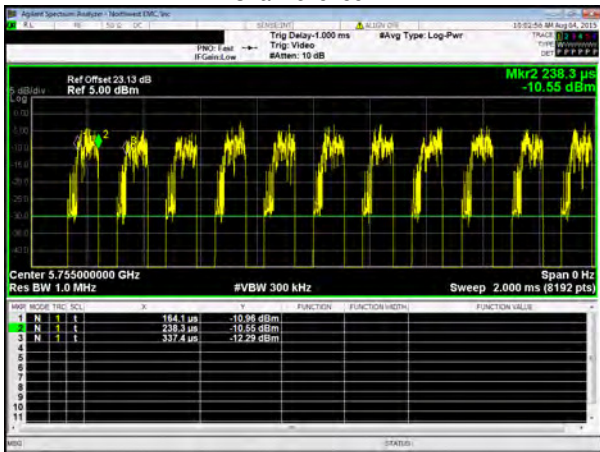
Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5230 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

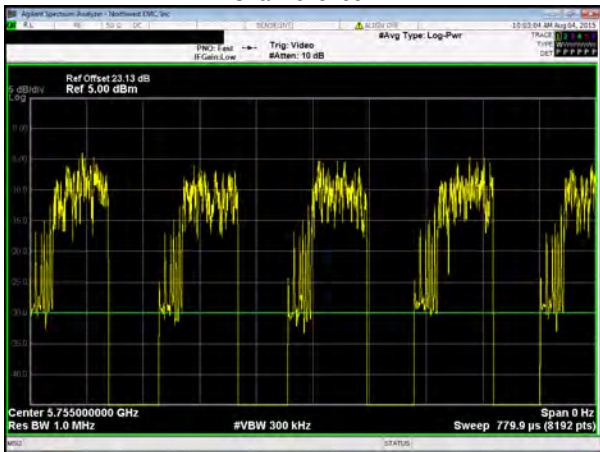
DUTY CYCLE

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5755 MHz



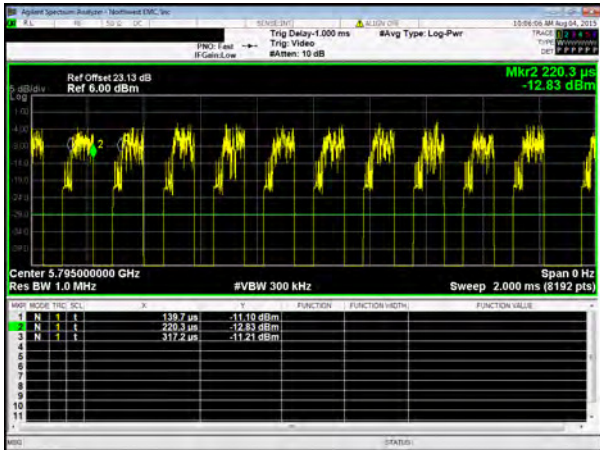
Pulse Width	74.179 us
Period	173.3 us
Number of Pulses	1
Value (%)	42.8
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5755 MHz



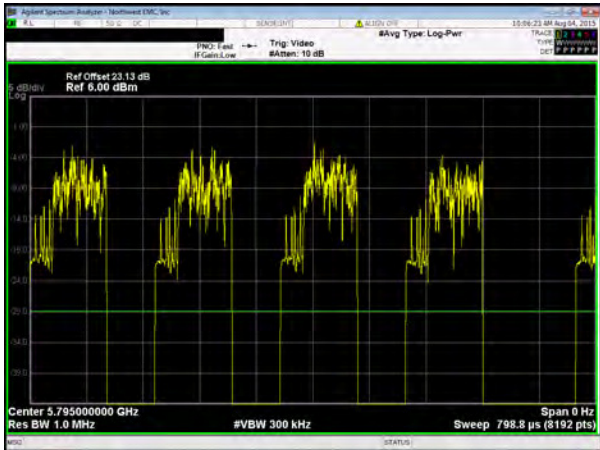
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5795 MHz



Pulse Width	80.556 us
Period	177.5 us
Number of Pulses	1
Value (%)	45.4
Limit (%)	N/A
Results	N/A

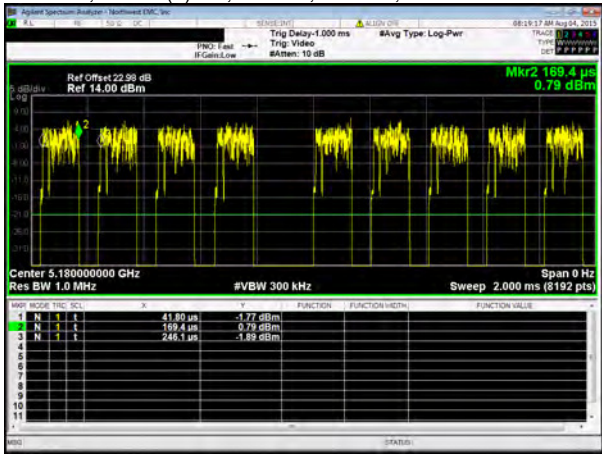
Chain A, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5795 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	4
Value (%)	N/A
Limit (%)	N/A
Results	N/A

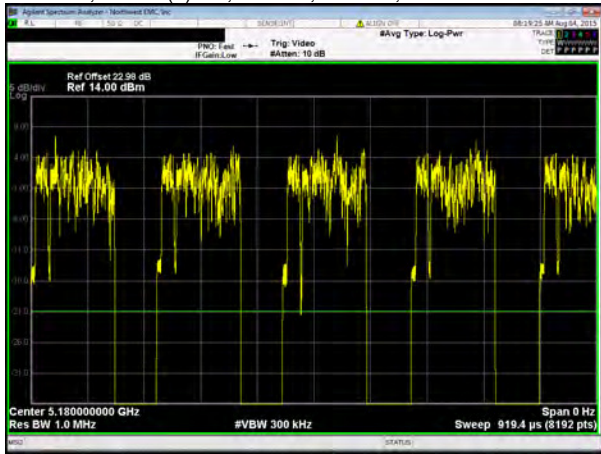
DUTY CYCLE

Chain A, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5180 MHz



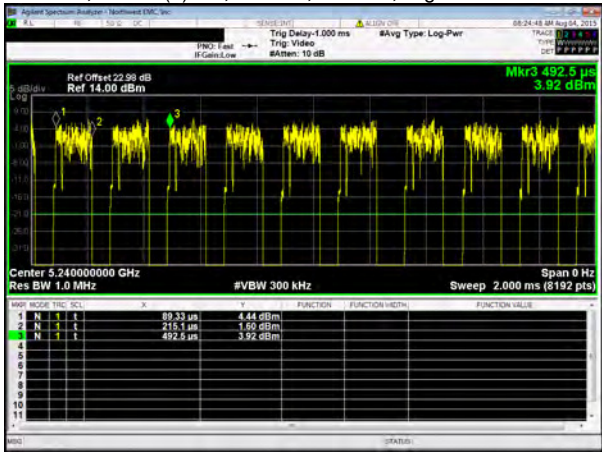
Pulse Width	127.623 us
Period	204.3 us
Number of Pulses	1
Value (%)	62.5
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5180 MHz



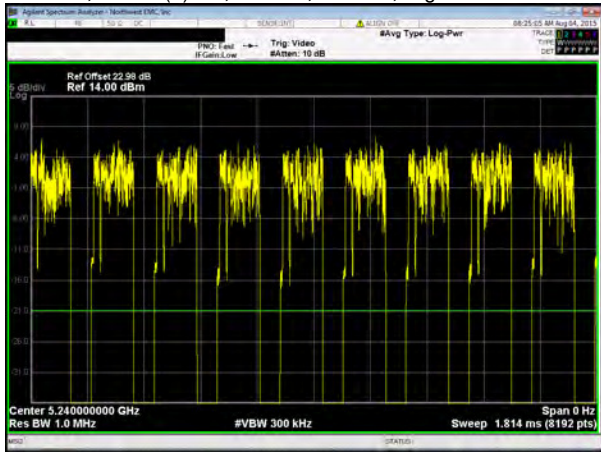
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 20 MHz, High Channel 5240 MHz



Pulse Width	125.814 us
Period	403.188 us
Number of Pulses	1
Value (%)	31.2
Limit (%)	N/A
Results	N/A

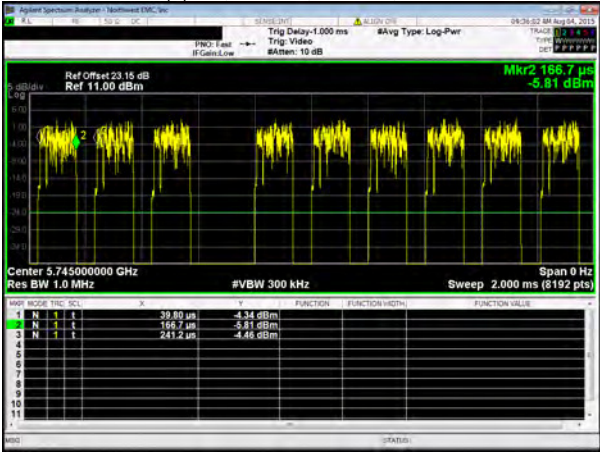
Chain A, 802.11(n) HT, MCS15, 20 MHz, High Channel 5240 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	9
Value (%)	N/A
Limit (%)	N/A
Results	N/A

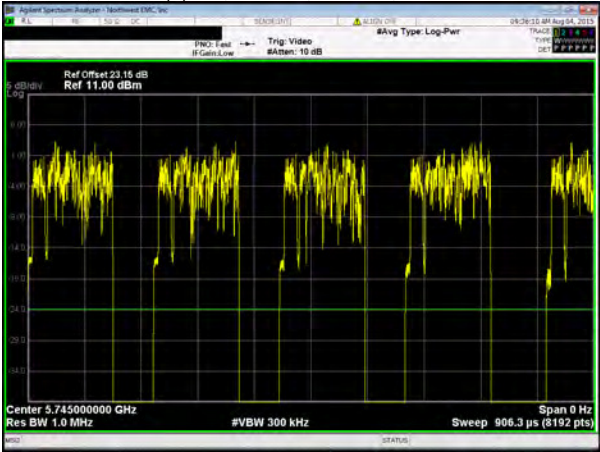
DUTY CYCLE

Chain A, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5745 MHz



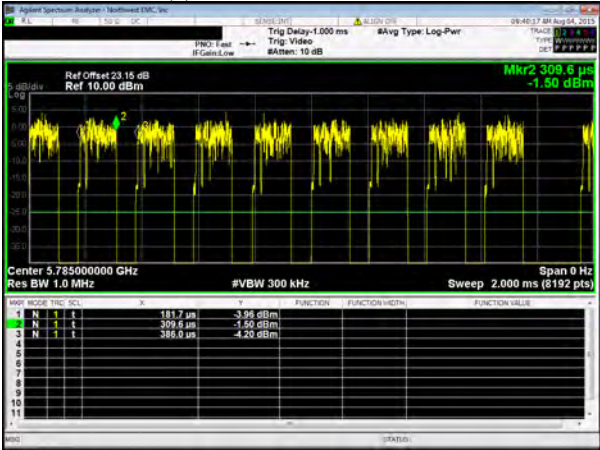
Pulse Width	126.935 us
Period	201.4 us
Number of Pulses	1
Value (%)	63
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5745 MHz



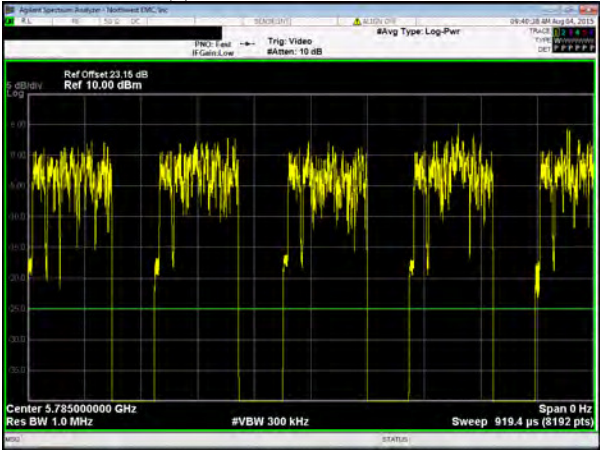
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 20 MHz, Mid Channel 5785 MHz



Pulse Width	127.912 us
Period	204.3 us
Number of Pulses	1
Value (%)	62.6
Limit (%)	N/A
Results	N/A

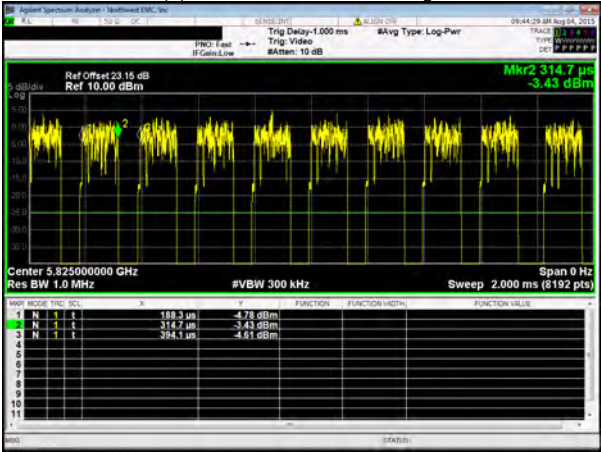
Chain A, 802.11(n) HT, MCS15, 20 MHz, Mid Channel 5785 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

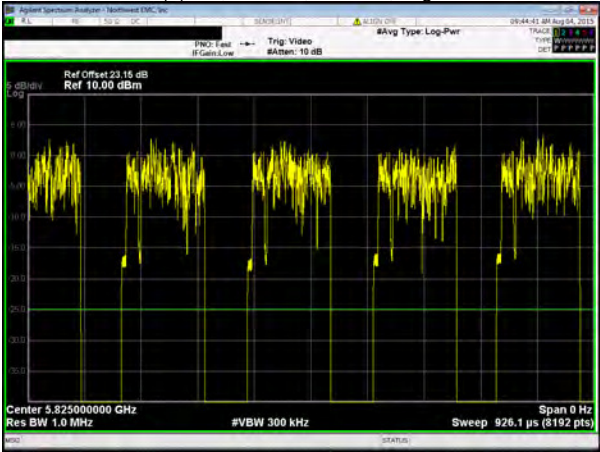
DUTY CYCLE

Chain A, 802.11(n) HT, MCS15, 20 MHz, High Channel 5825 MHz



Pulse Width	126.447 us
Period	205.8 us
Number of Pulses	1
Value (%)	61.4
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 20 MHz, High Channel 5825 MHz



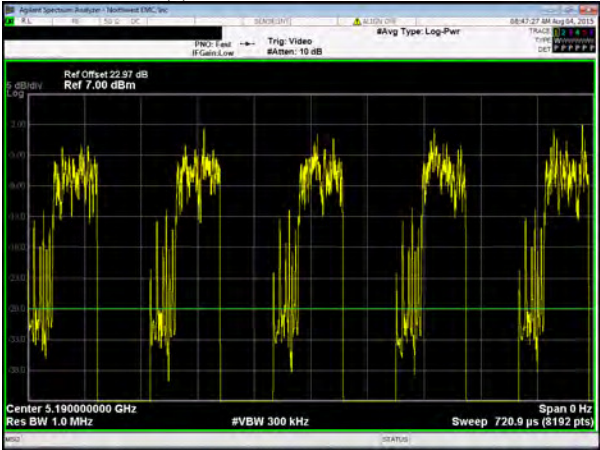
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5190 MHz



Pulse Width	54.667 us
Period	160.2 us
Number of Pulses	1
Value (%)	34.1
Limit (%)	N/A
Results	N/A

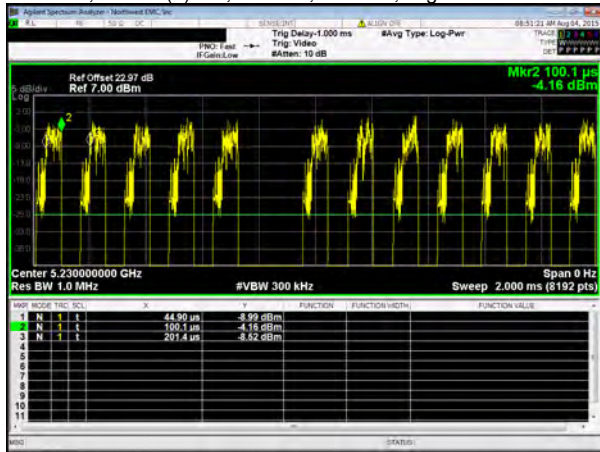
Chain A, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5190 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

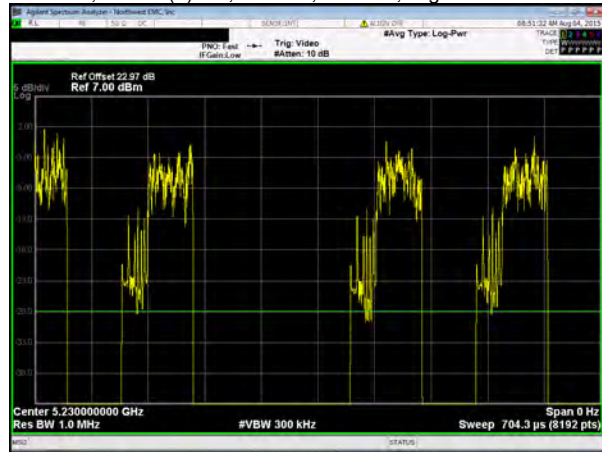
DUTY CYCLE

Chain A, 802.11(n) HT, MCS15, 40 MHz, High Channel 5230 MHz



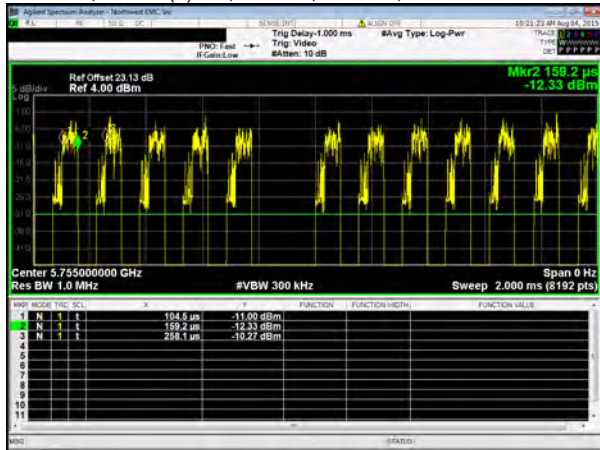
Pulse Width	55.167 us
Period	156.5 us
Number of Pulses	1
Value (%)	35.3
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 40 MHz, High Channel 5230 MHz



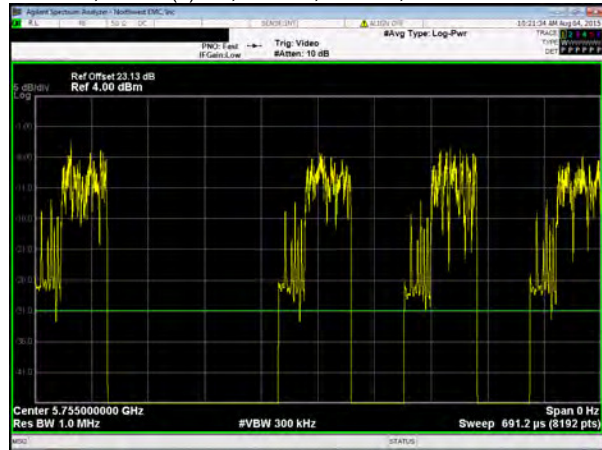
Pulse Width	N/A
Period	N/A
Number of Pulses	4
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5755 MHz



Pulse Width	54.712 us
Period	153.6 us
Number of Pulses	1
Value (%)	35.6
Limit (%)	N/A
Results	N/A

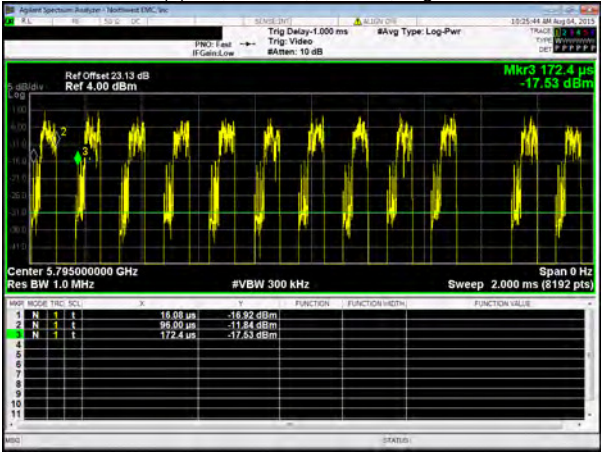
Chain A, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5755 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

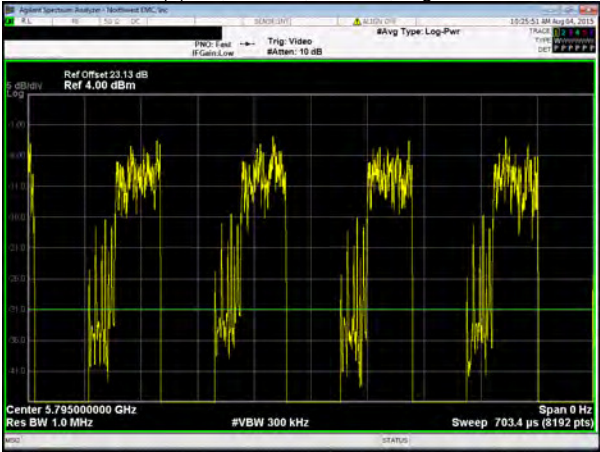
DUTY CYCLE

Chain A, 802.11(n) HT, MCS15, 40 MHz, High Channel 5795 MHz



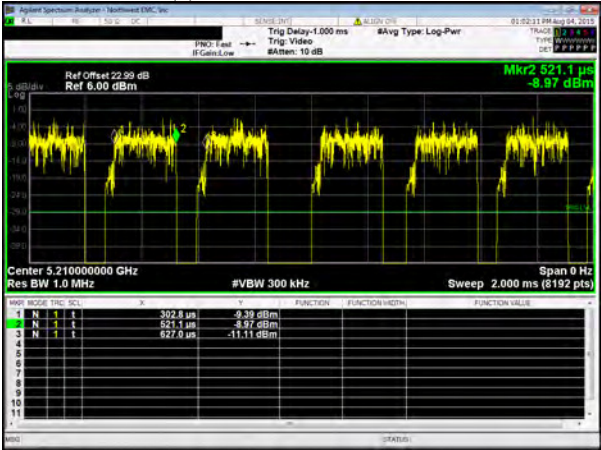
Pulse Width	79.917 us
Period	156.3 us
Number of Pulses	1
Value (%)	51.1
Limit (%)	N/A
Results	N/A

Chain A, 802.11(n) HT, MCS15, 40 MHz, High Channel 5795 MHz



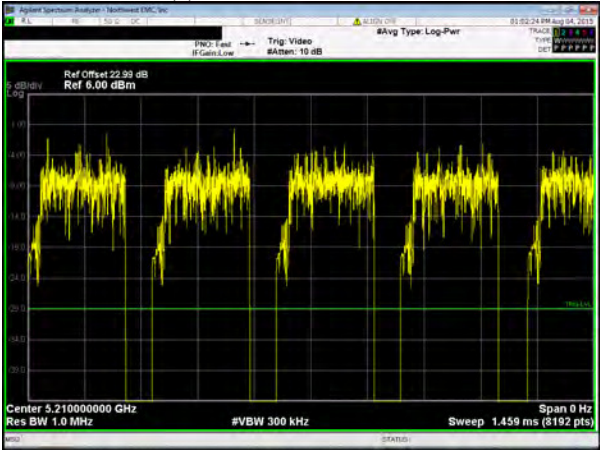
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



Pulse Width	218.279 us
Period	324.2 us
Number of Pulses	1
Value (%)	67.3
Limit (%)	N/A
Results	N/A

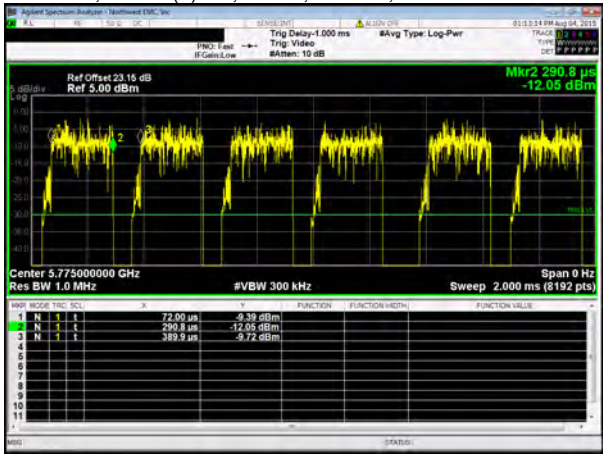
Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

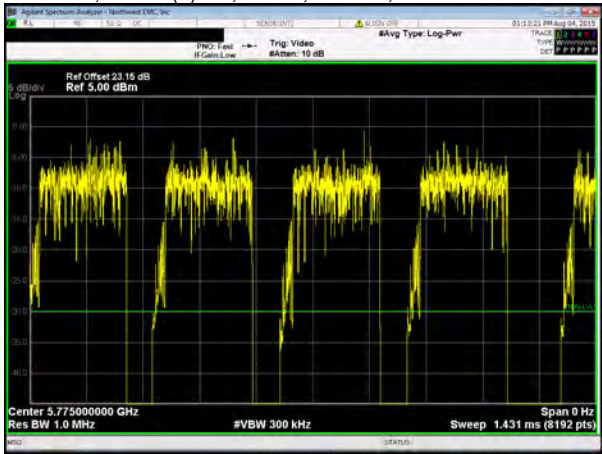
DUTY CYCLE

Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



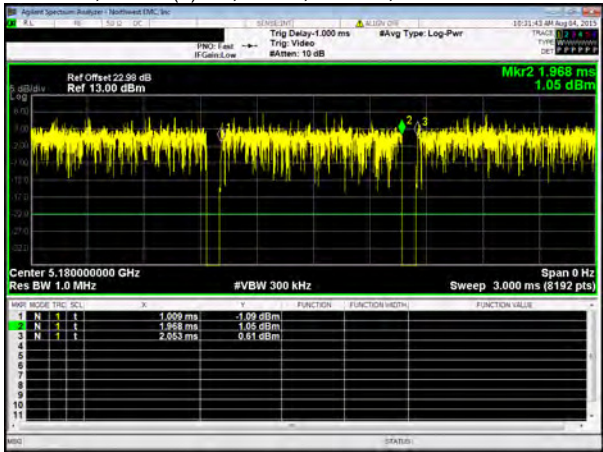
Pulse Width	218.812 us
Period	317.9 us
Number of Pulses	1
Value (%)	68.8
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5180 MHz



Pulse Width	959.17 us
Period	1.044 ms
Number of Pulses	1
Value (%)	91.9
Limit (%)	N/A
Results	N/A

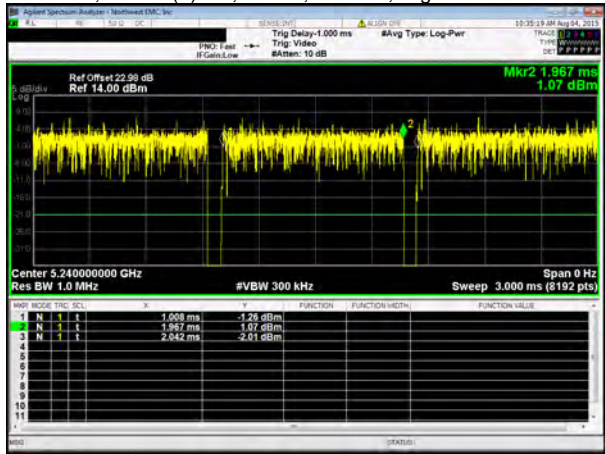
Chain B, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5180 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

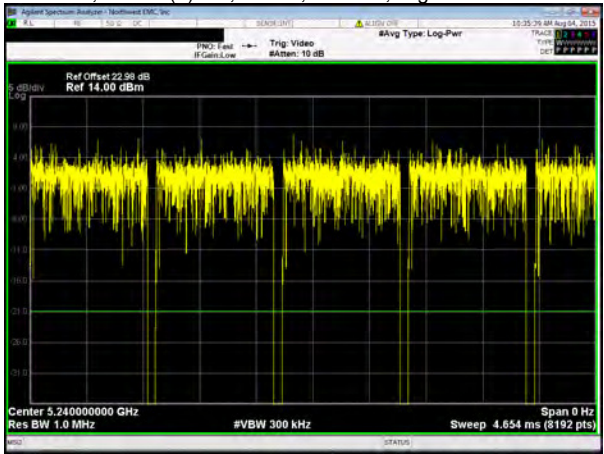
DUTY CYCLE

Chain B, 802.11(n) HT, MCS8, 20 MHz, High Channel 5240 MHz



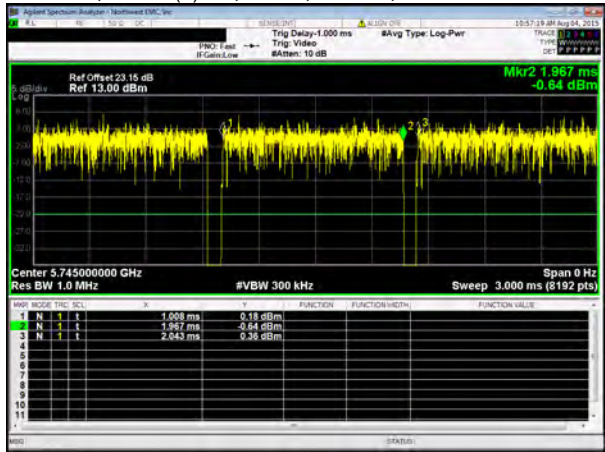
Pulse Width	959.3 us
Period	1.034 ms
Number of Pulses	1
Value (%)	92.7
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 20 MHz, High Channel 5240 MHz



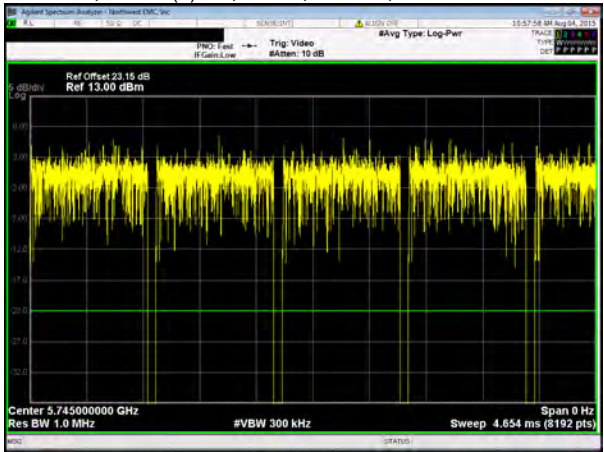
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5745 MHz



Pulse Width	958.53 us
Period	1.034 ms
Number of Pulses	1
Value (%)	92.7
Limit (%)	N/A
Results	N/A

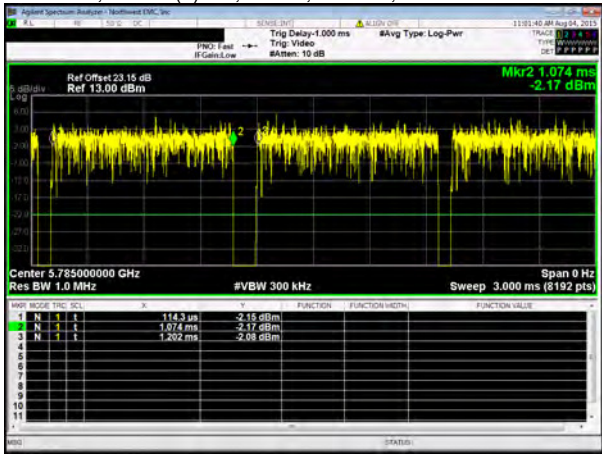
Chain B, 802.11(n) HT, MCS8, 20 MHz, Low Channel 5745 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

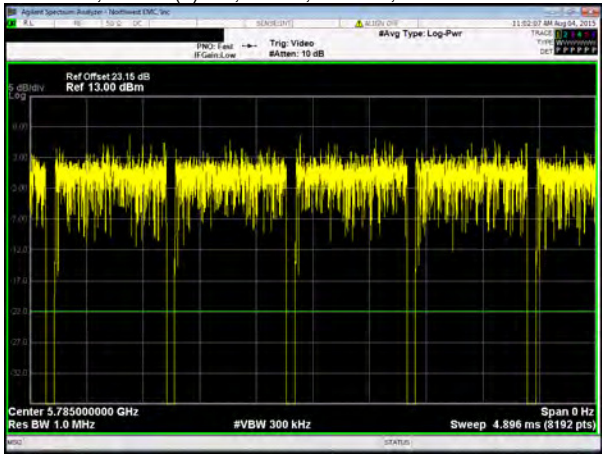
DUTY CYCLE

Chain B, 802.11(n) HT, MCS8, 20 MHz, Mid Channel 5785 MHz



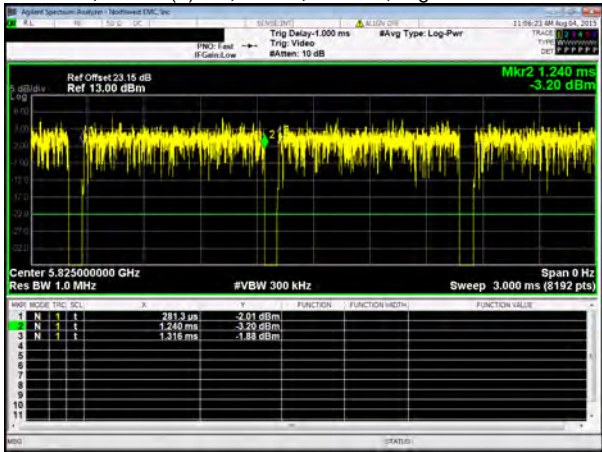
Pulse Width	959.57 us
Period	1.088 ms
Number of Pulses	1
Value (%)	88.2
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 20 MHz, Mid Channel 5785 MHz



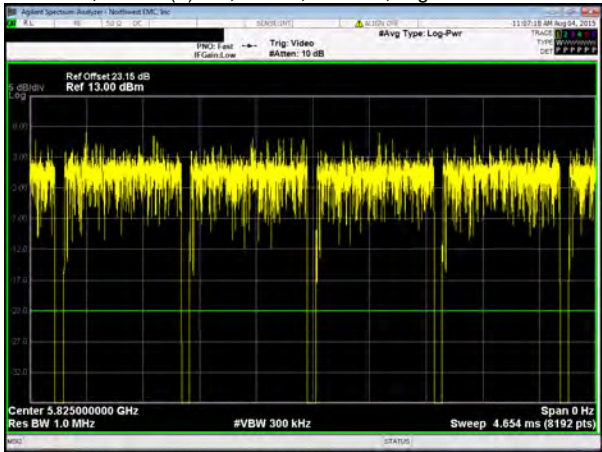
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 20 MHz, High Channel 5825 MHz



Pulse Width	959.17 us
Period	1.034 ms
Number of Pulses	1
Value (%)	92.7
Limit (%)	N/A
Results	N/A

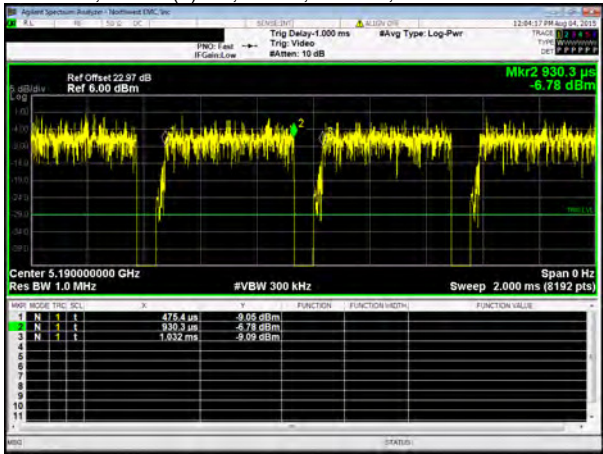
Chain B, 802.11(n) HT, MCS8, 20 MHz, High Channel 5825 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

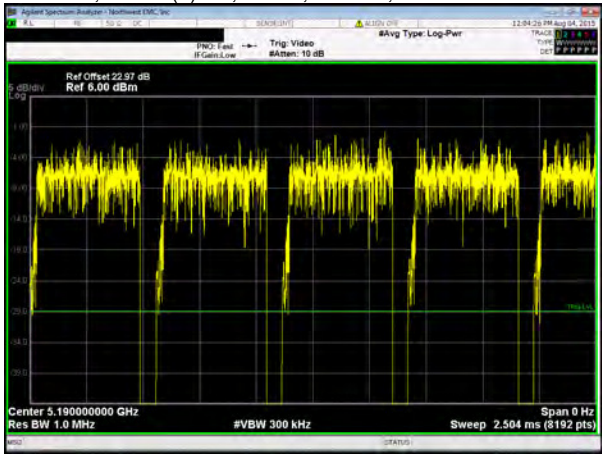
DUTY CYCLE

Chain B, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5190 MHz



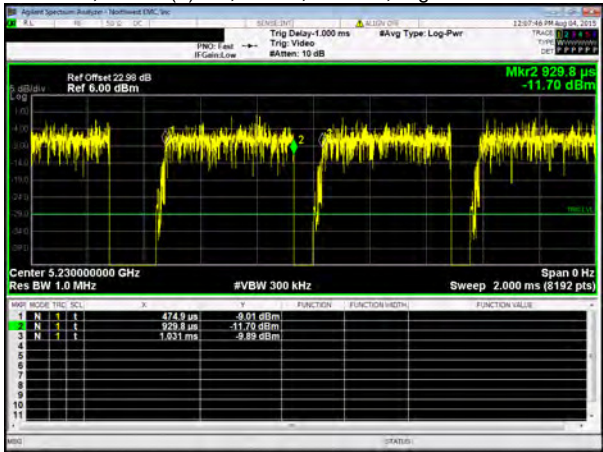
Pulse Width	454.935 us
Period	556.5 us
Number of Pulses	1
Value (%)	81.7
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5190 MHz



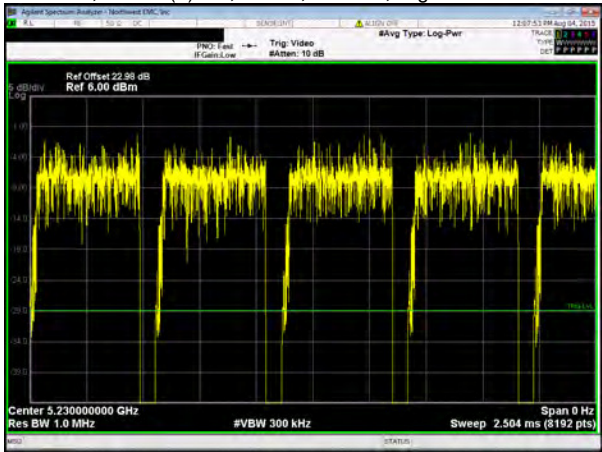
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 40 MHz, High Channel 5230 MHz



Pulse Width	454.923 us
Period	556.5 us
Number of Pulses	1
Value (%)	81.7
Limit (%)	N/A
Results	N/A

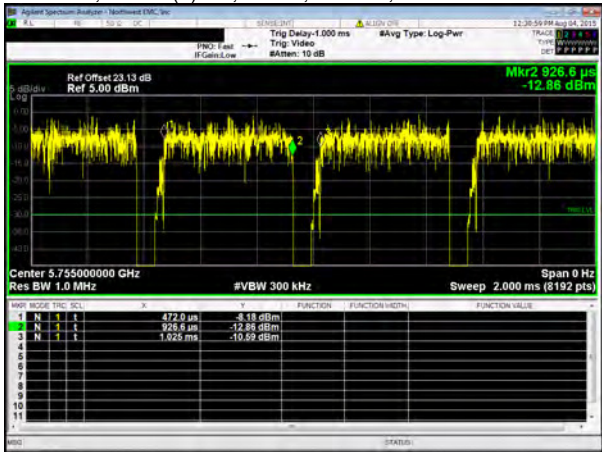
Chain B, 802.11(n) HT, MCS8, 40 MHz, High Channel 5230 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

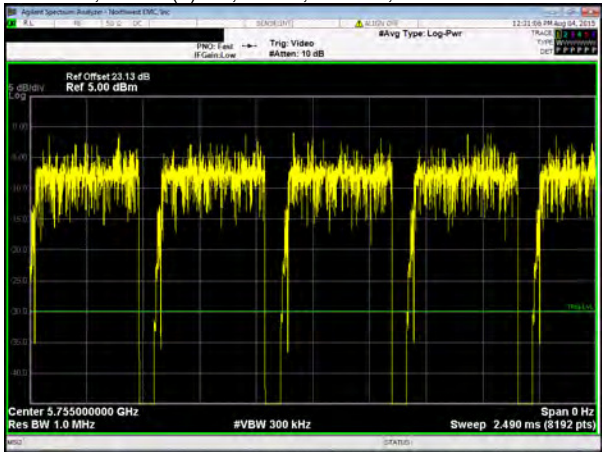
DUTY CYCLE

Chain B, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5755 MHz



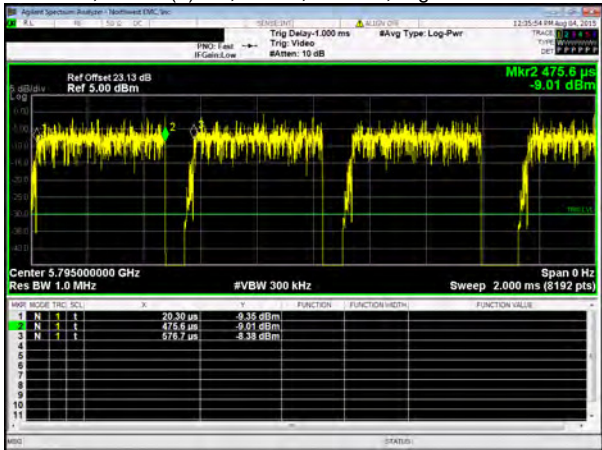
Pulse Width	454.623 us
Period	553.3 us
Number of Pulses	1
Value (%)	82.2
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 40 MHz, Low Channel 5755 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS8, 40 MHz, High Channel 5795 MHz



Pulse Width	455.312 us
Period	556.4 us
Number of Pulses	1
Value (%)	81.8
Limit (%)	N/A
Results	N/A

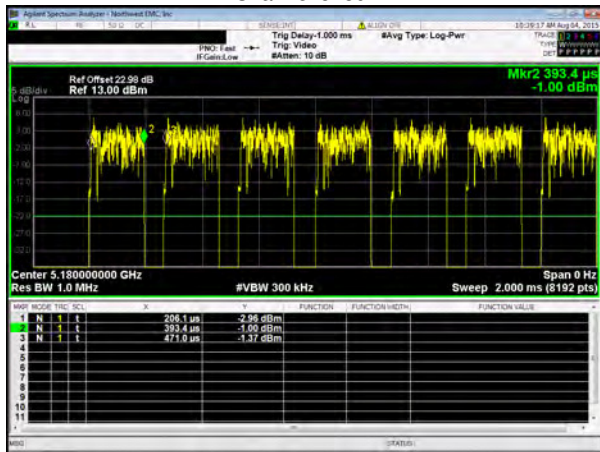
Chain B, 802.11(n) HT, MCS8, 40 MHz, High Channel 5795 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low
Channel 5180 MHz



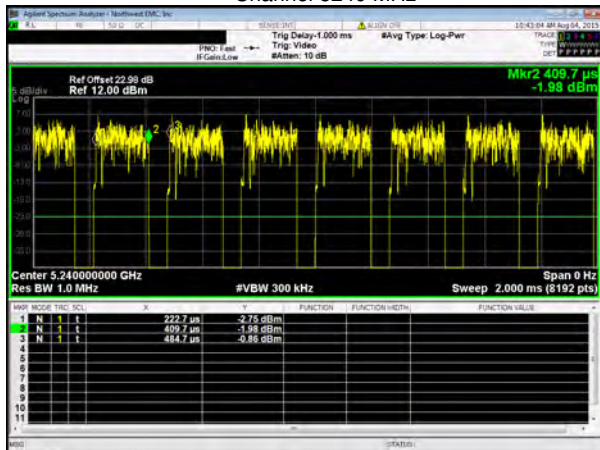
Pulse Width	187.267 us
Period	264.9 us
Number of Pulses	1
Value (%)	70.7
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low
Channel 5180 MHz



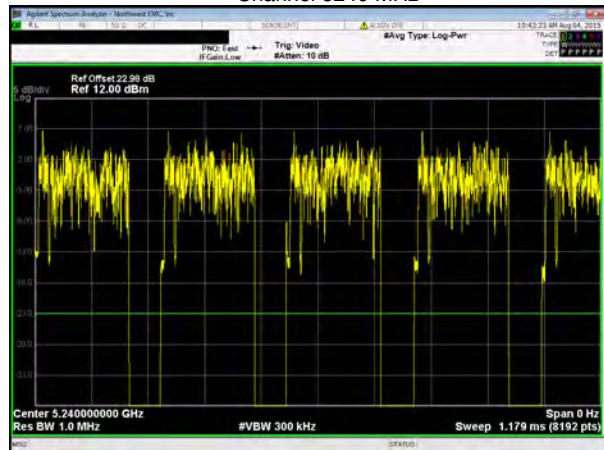
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5240 MHz



Pulse Width	187.023 us
Period	262 us
Number of Pulses	1
Value (%)	71.4
Limit (%)	N/A
Results	N/A

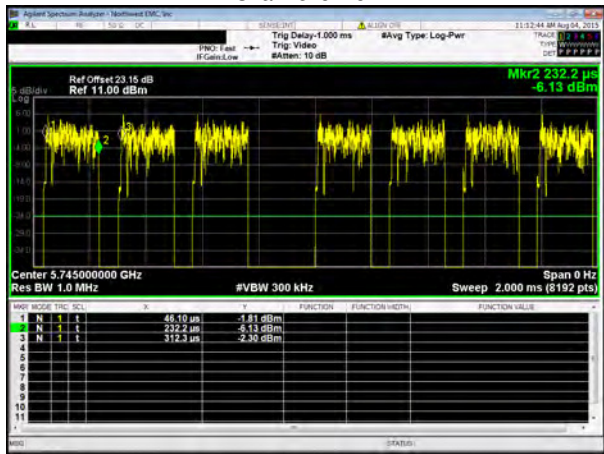
Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5240 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

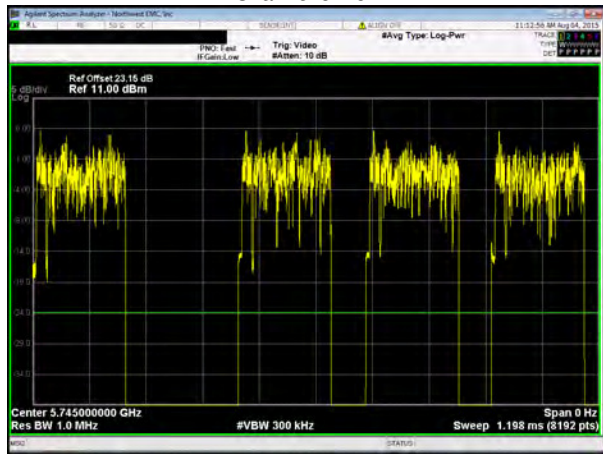
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low
Channel 5745 MHz



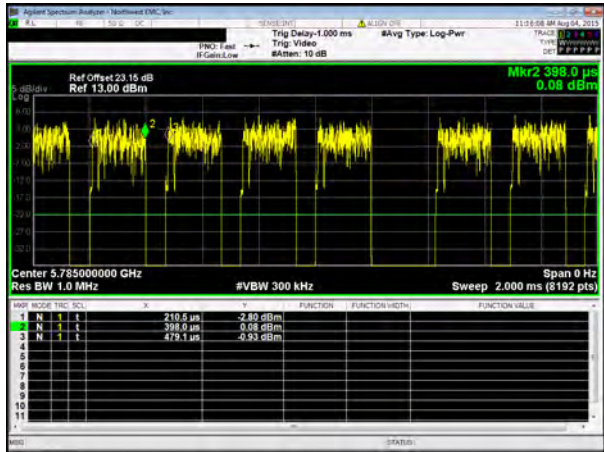
Pulse Width	186.091 us
Period	266.2 us
Number of Pulses	1
Value (%)	69.9
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low
Channel 5745 MHz



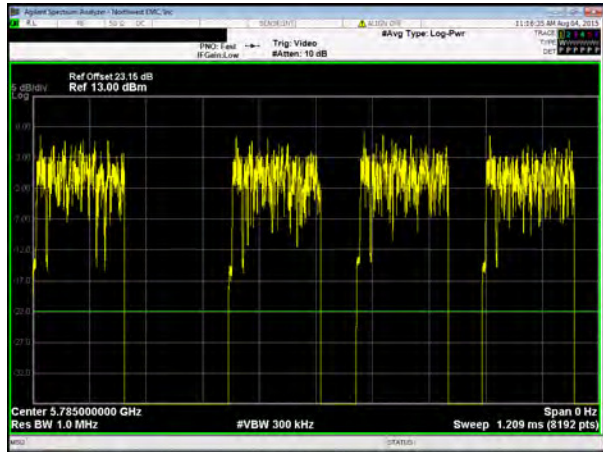
Pulse Width	N/A
Period	N/A
Number of Pulses	4
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid
Channel 5785 MHz



Pulse Width	187.512 us
Period	268.6 us
Number of Pulses	1
Value (%)	69.8
Limit (%)	N/A
Results	N/A

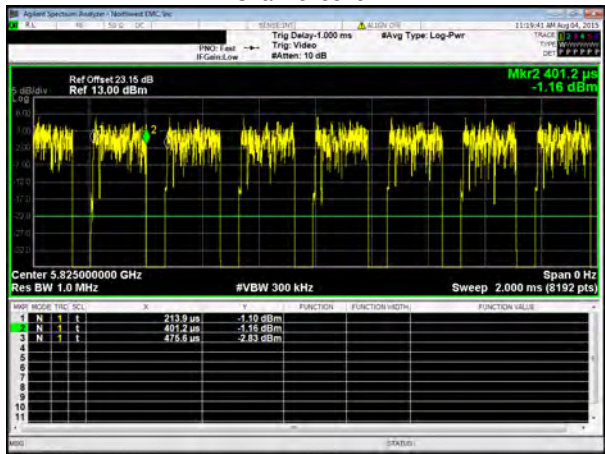
Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid
Channel 5785 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	4
Value (%)	N/A
Limit (%)	N/A
Results	N/A

DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5825 MHz



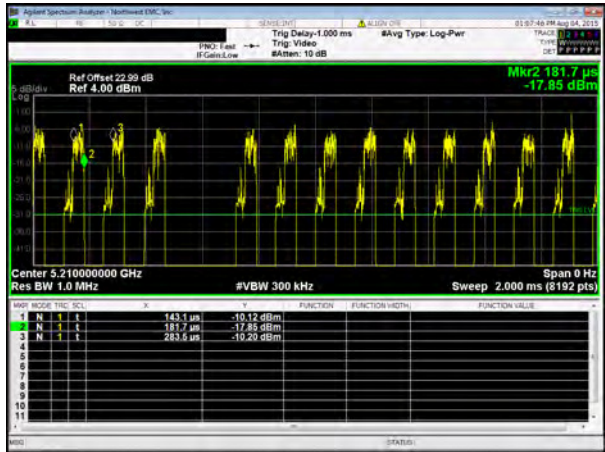
Pulse Width	187.312 us
Period	261.7 us
Number of Pulses	1
Value (%)	71.6
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High
Channel 5825 MHz



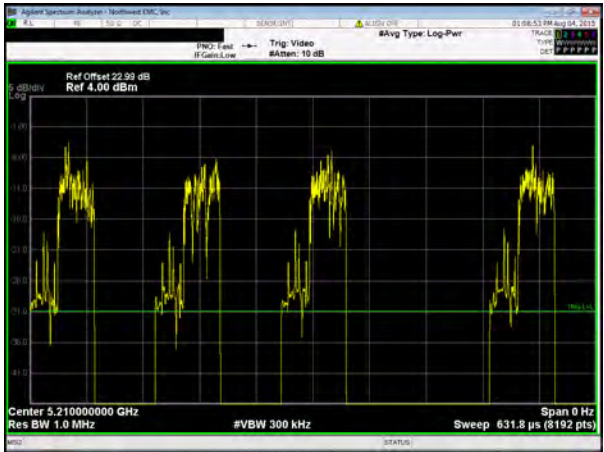
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5210 MHz



Pulse Width	38.612 us
Period	140.4 us
Number of Pulses	1
Value (%)	27.5
Limit (%)	N/A
Results	N/A

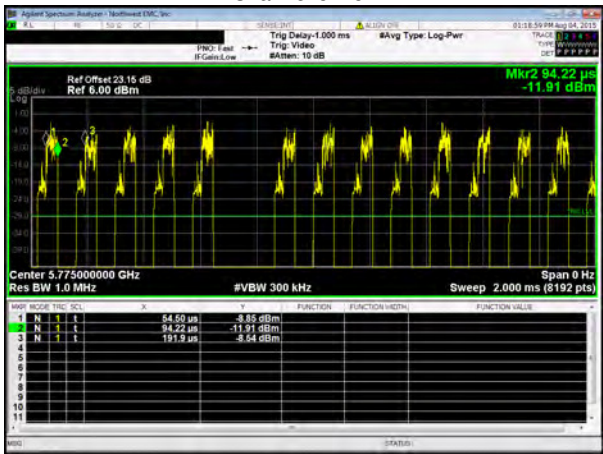
Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5210 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

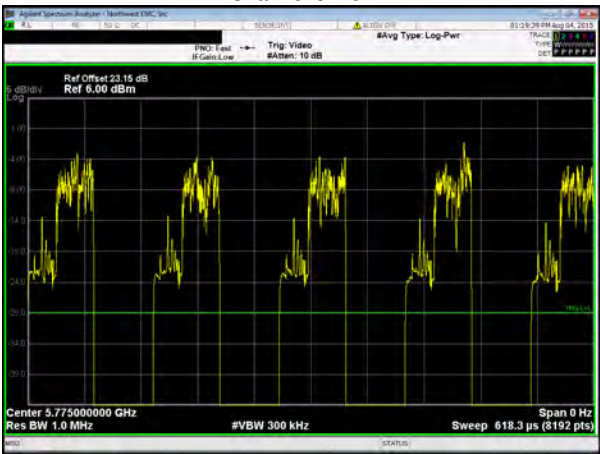
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5775 MHz



Pulse Width	39.723 us
Period	137.4 us
Number of Pulses	1
Value (%)	28.9
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low
Channel 5775 MHz



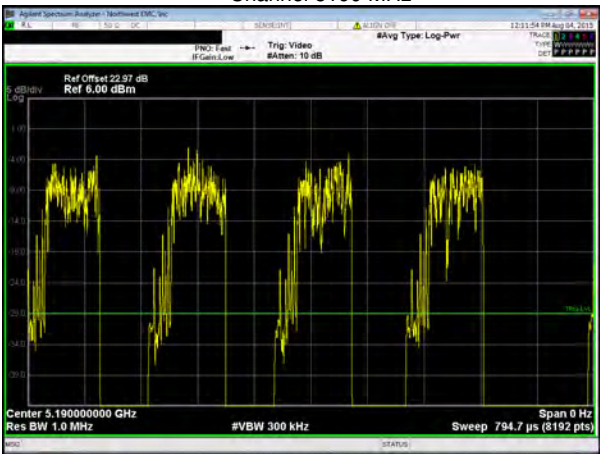
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5190 MHz



Pulse Width	74.967 us
Period	176.6 us
Number of Pulses	1
Value (%)	42.5
Limit (%)	N/A
Results	N/A

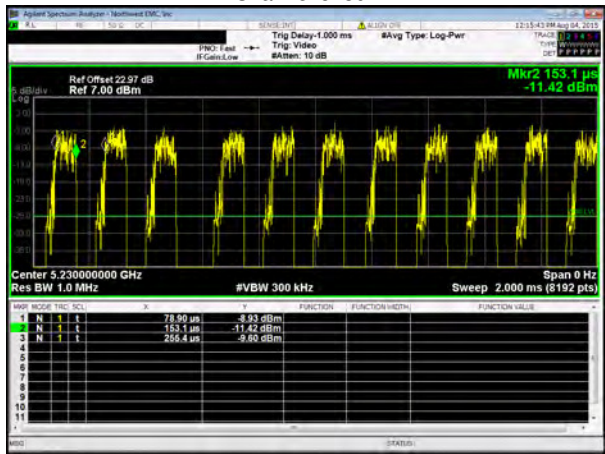
Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5190 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

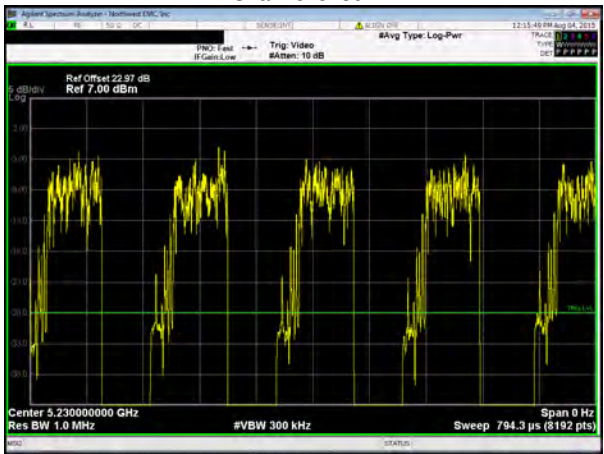
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5230 MHz



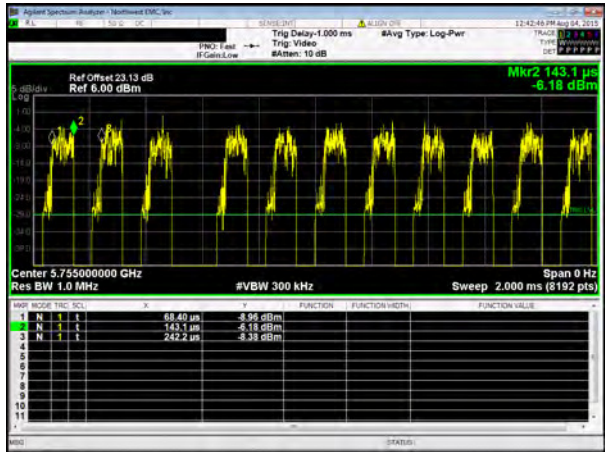
Pulse Width	74.167 us
Period	176.5 us
Number of Pulses	1
Value (%)	42
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5230 MHz



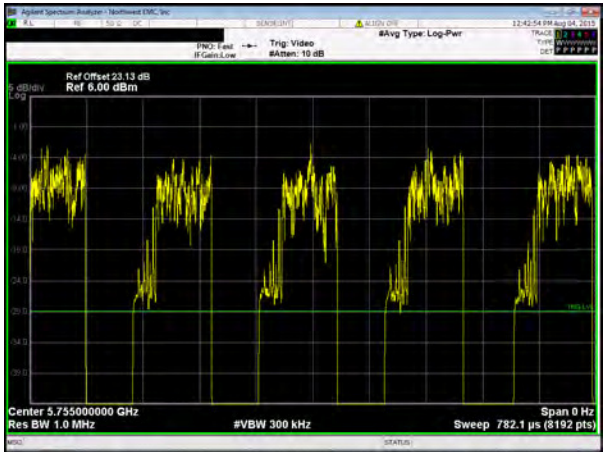
Pulse Width	N/A
Period	N/A
Number of Pulses	6
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5755 MHz



Pulse Width	74.667 us
Period	173.8 us
Number of Pulses	1
Value (%)	43
Limit (%)	N/A
Results	N/A

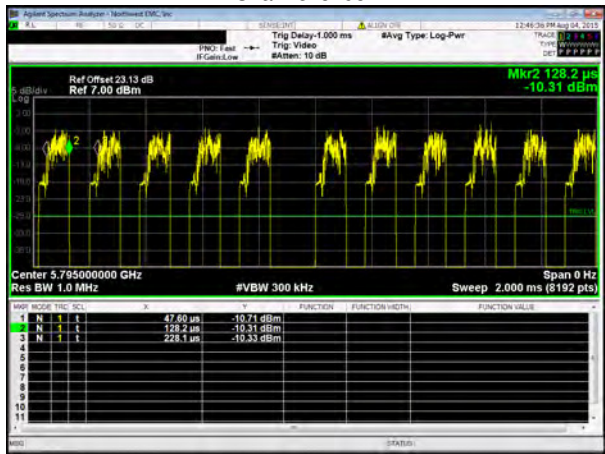
Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5755 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

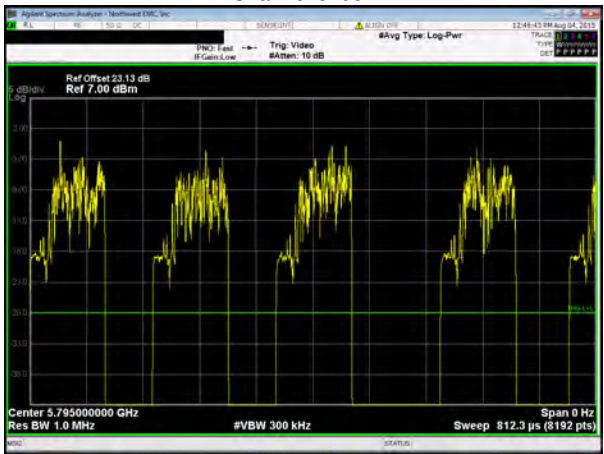
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5795 MHz



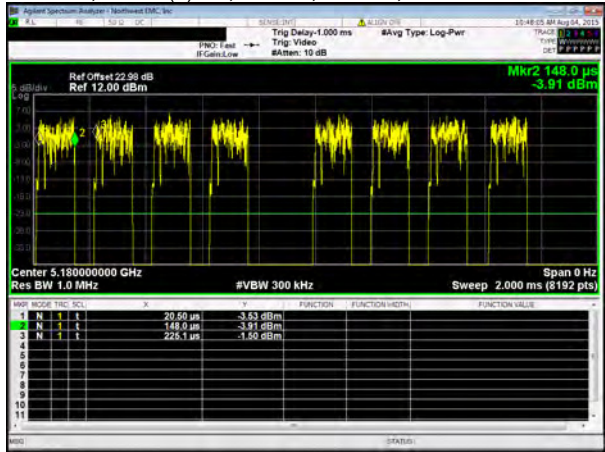
Pulse Width	80.612 us
Period	180.5 us
Number of Pulses	1
Value (%)	44.7
Limit (%)	N/A
Results	N/A

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5795 MHz



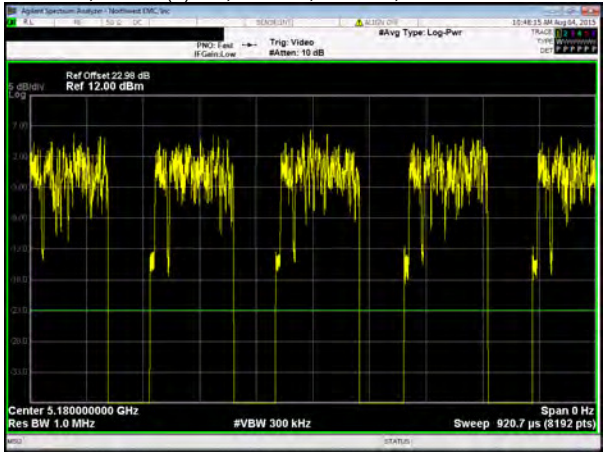
Pulse Width	N/A
Period	N/A
Number of Pulses	4
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5180 MHz



Pulse Width	127.512 us
Period	204.6 us
Number of Pulses	1
Value (%)	62.3
Limit (%)	N/A
Results	N/A

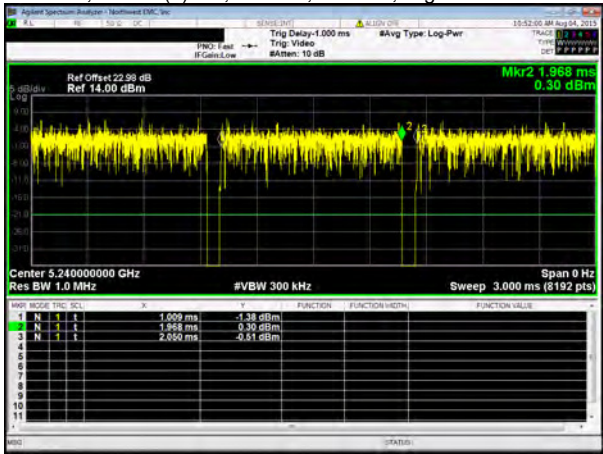
Chain B, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5180 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

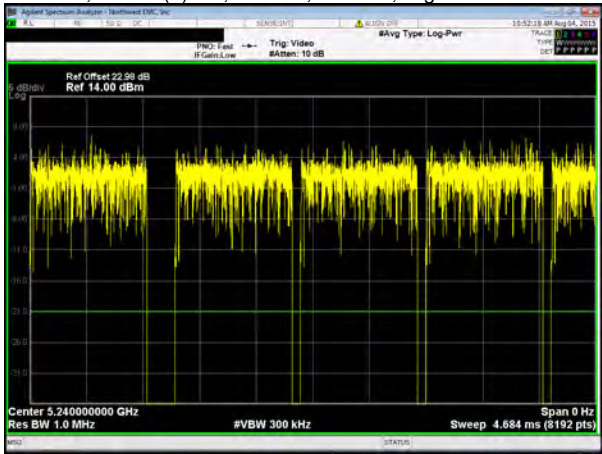
DUTY CYCLE

Chain B, 802.11(n) HT, MCS15, 20 MHz, High Channel 5240 MHz



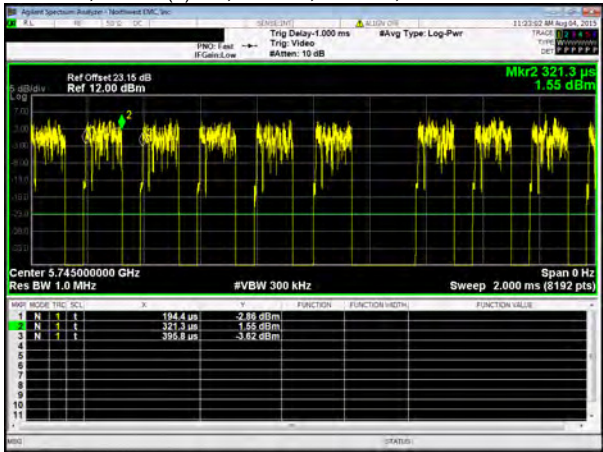
Pulse Width	959.57 us
Period	1.041 ms
Number of Pulses	1
Value (%)	92.2
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 20 MHz, High Channel 5240 MHz



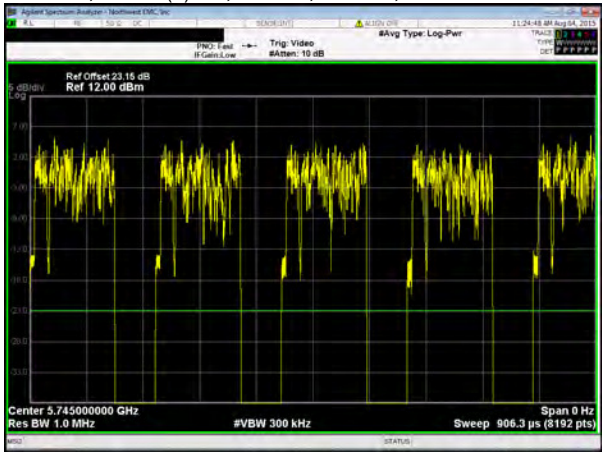
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5745 MHz



Pulse Width	126.879 us
Period	201.4 us
Number of Pulses	1
Value (%)	63
Limit (%)	N/A
Results	N/A

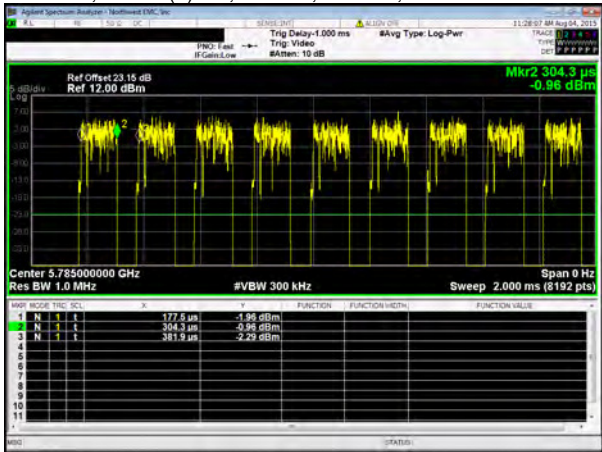
Chain B, 802.11(n) HT, MCS15, 20 MHz, Low Channel 5745 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

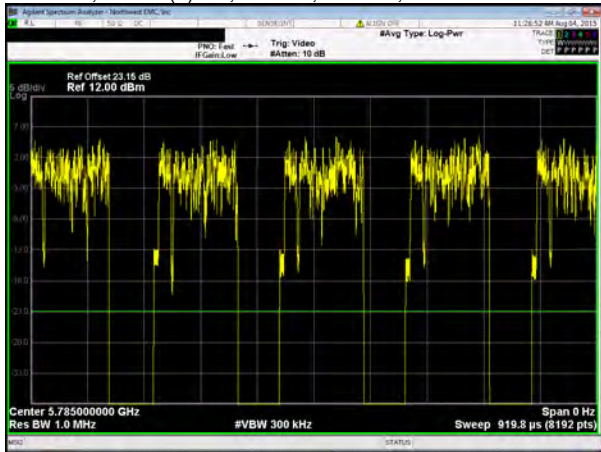
DUTY CYCLE

Chain B, 802.11(n) HT, MCS15, 20 MHz, Mid Channel 5785 MHz



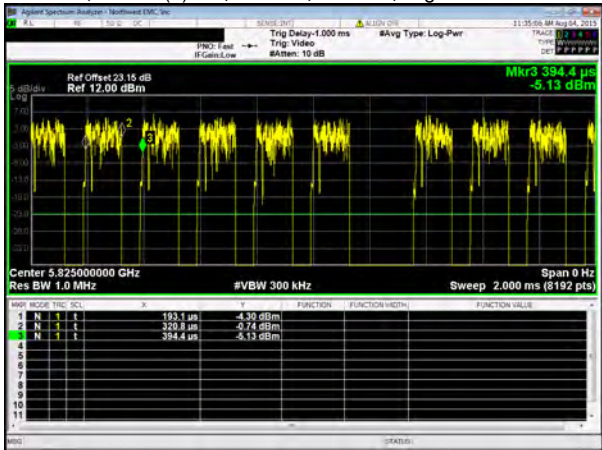
Pulse Width	126.779 us
Period	204.4 us
Number of Pulses	1
Value (%)	62
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 20 MHz, Mid Channel 5785 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 20 MHz, High Channel 5825 MHz



Pulse Width	127.712 us
Period	201.255 us
Number of Pulses	1
Value (%)	63.5
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 20 MHz, High Channel 5825 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

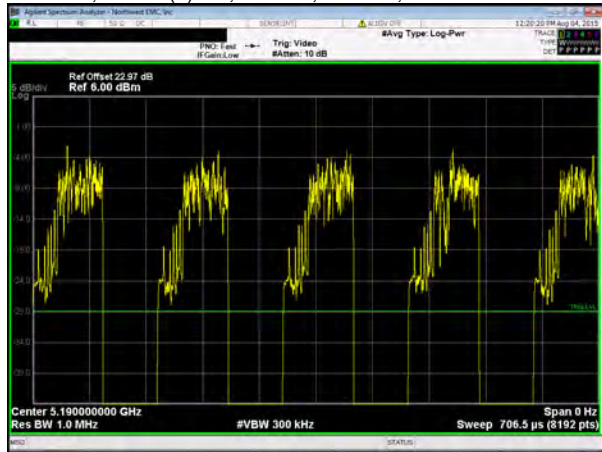
DUTY CYCLE

Chain B, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5190 MHz



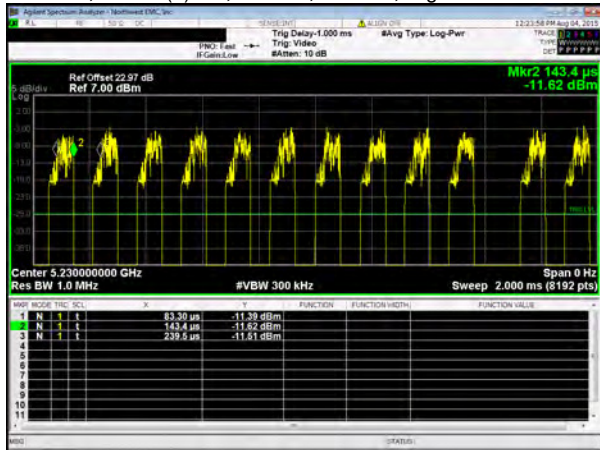
Pulse Width	55.123 us
Period	157 us
Number of Pulses	1
Value (%)	35.1
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5190 MHz



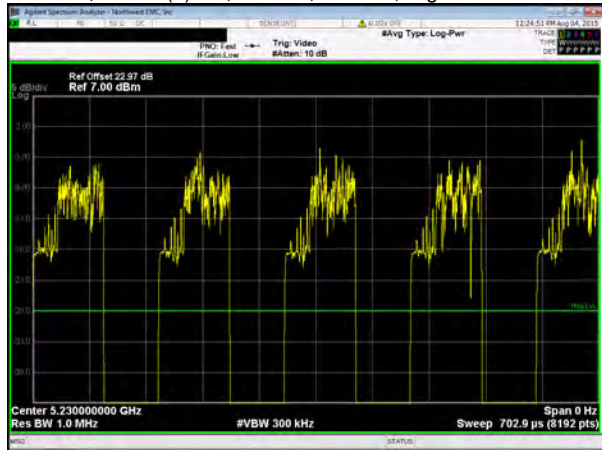
Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 40 MHz, High Channel 5230 MHz



Pulse Width	60.067 us
Period	156.2 us
Number of Pulses	1
Value (%)	38.5
Limit (%)	N/A
Results	N/A

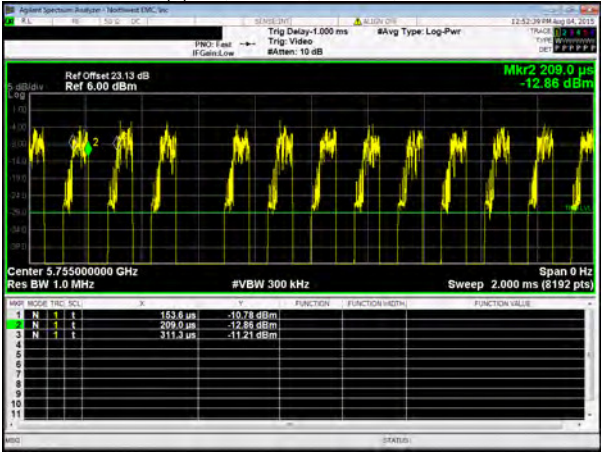
Chain B, 802.11(n) HT, MCS15, 40 MHz, High Channel 5230 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A

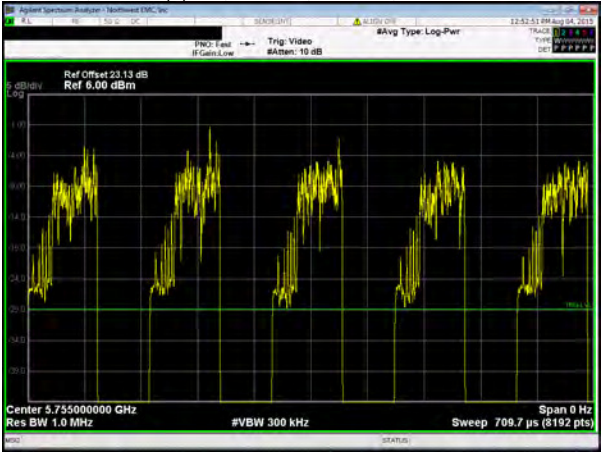
DUTY CYCLE

Chain B, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5755 MHz



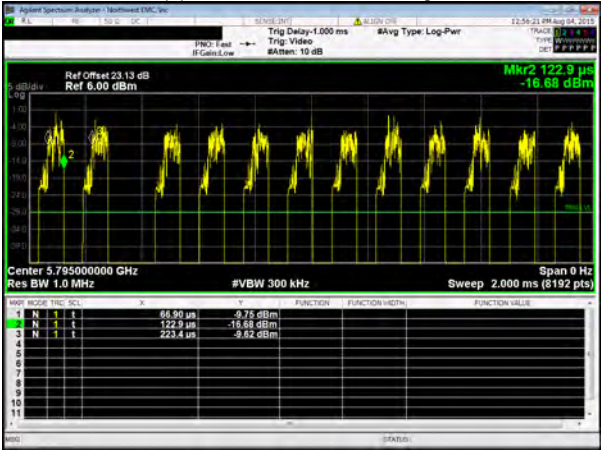
Pulse Width	55.367 us
Period	157.7 us
Number of Pulses	1
Value (%)	35.1
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 40 MHz, Low Channel 5755 MHz



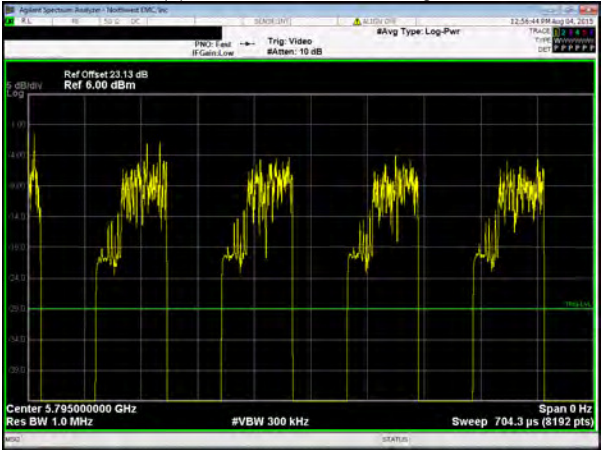
Pulse Width	N/A
Period	N/A
Number of Pulses	3
Value (%)	N/A
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 40 MHz, High Channel 5795 MHz



Pulse Width	55.956 us
Period	156.5 us
Number of Pulses	1
Value (%)	35.8
Limit (%)	N/A
Results	N/A

Chain B, 802.11(n) HT, MCS15, 40 MHz, High Channel 5795 MHz



Pulse Width	N/A
Period	N/A
Number of Pulses	5
Value (%)	N/A
Limit (%)	N/A
Results	N/A