

DUTY CYCLE



XMIT 2017.02.08

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 EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	Fairview Microwave	SA4018-20	TYE	10/24/2016	10/24/2017
Block - DC	Fairview Microwave	SD3379	AMT	10/24/2016	10/24/2017
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	3/14/2017	3/14/2018

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

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, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

DUTY CYCLE



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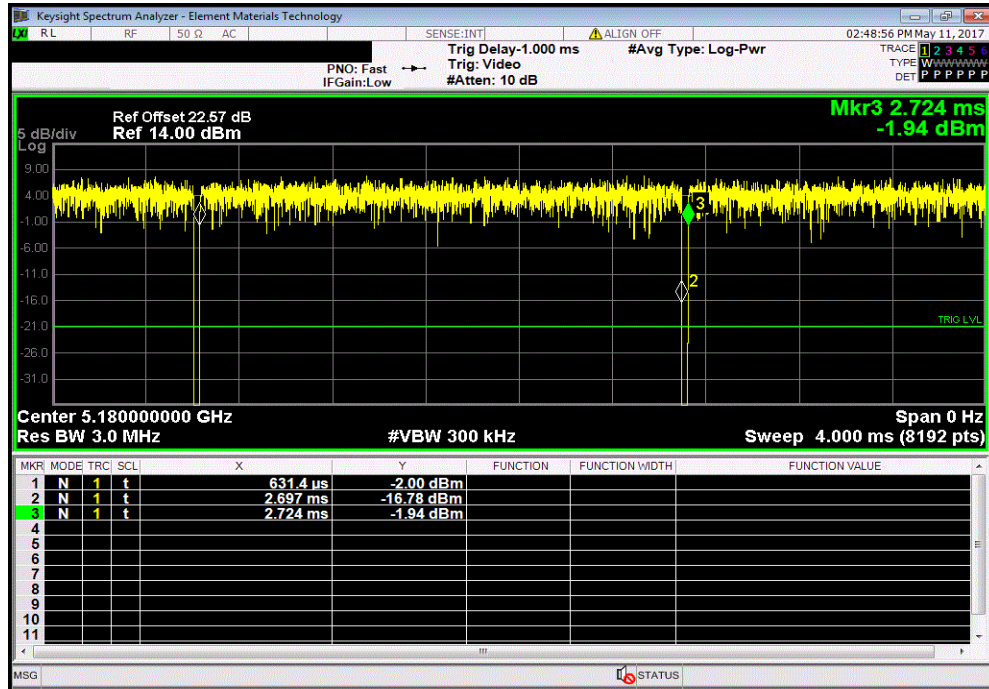
EUT:	Dual Band Wireless-AC 3160 Module			Work Order:		APPR0043			
Serial Number:	None			Date:		05/11/17			
Customer:	American Portwell Technology Inc.			Temperature:		23.5 °C			
Attendees:	None			Humidity:		46.4% RH			
Project:	None			Barometric Pres.:		1015 mbar			
Tested by:	Jonathan Kiefer		Power:	110VAC/60Hz		Job Site: TX09			
TEST SPECIFICATIONS				Test Method					
FCC 15.407:2017				ANSI C63.10:2013					
COMMENTS									
See Power Table for output power settings used.									
DEVIATIONS FROM TEST STANDARD									
None									
Configuration #	1	Signature Jonathan Kiefer							
				Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
Chain A									
5150 - 5250 MHz Band									
20 MHz BW									
802.11(a) 6 Mbps									
Low Channel, Ch 36 - 5180 MHz				2.065 ms	2.092 ms	1	98.7	N/A	N/A
Low Channel, Ch 36 - 5180 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 48 - 5240 MHz				2.065 ms	2.092 ms	1	98.7	N/A	N/A
High Channel, Ch 48 - 5240 MHz				N/A	N/A	6	N/A	N/A	N/A
802.11(n) MCS0									
Low Channel, Ch 36 - 5180 MHz				1.921 ms	1.948 ms	1	98.6	N/A	N/A
Low Channel, Ch 36 - 5180 MHz				N/A	N/A	5	N/A	N/A	N/A
High Channel, Ch 48 - 5240 MHz				1.921 ms	1.947 ms	1	98.6	N/A	N/A
High Channel, Ch 48 - 5240 MHz				N/A	N/A	6	N/A	N/A	N/A
40 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 36/40 - 5190 MHz				943.9 us	971.3 us	1	97.2	N/A	N/A
Low Channel, Ch 36/40 - 5190 MHz				N/A	N/A	5	N/A	N/A	N/A
High Channel, Ch 44/48 - 5230 MHz				938 us	971.3 us	1	96.6	N/A	N/A
High Channel, Ch 44/48 - 5230 MHz				N/A	N/A	5	N/A	N/A	N/A
80 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 36-48 - 5210 MHz				439.8 us	467.6 us	1	94.1	N/A	N/A
Low Channel, Ch 36-48 - 5210 MHz				N/A	N/A	5	N/A	N/A	N/A
5725 - 5785 MHz Band									
20 MHz BW									
802.11(a) 6 Mbps									
Low Channel, Ch 149 - 5745 MHz				2.065 ms	2.091 ms	1	98.7	N/A	N/A
Low Channel, Ch 149 - 5745 MHz				N/A	N/A	6	N/A	N/A	N/A
Mid Channel, Ch 157 - 5785 MHz				2.064 ms	2.091 ms	1	98.7	N/A	N/A
Mid Channel, Ch 157 - 5785 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 165 - 5825 MHz				2.064 ms	2.092 ms	1	98.7	N/A	N/A
High Channel, Ch 165 - 5825 MHz				N/A	N/A	6	N/A	N/A	N/A
802.11(n) MCS0									
Low Channel, Ch 149 - 5745 MHz				1.921 ms	1.948 ms	1	98.6	N/A	N/A
Low Channel, Ch 149 - 5745 MHz				N/A	N/A	6	N/A	N/A	N/A
Mid Channel, Ch 157 - 5785 MHz				1.921 ms	1.947 ms	1	98.7	N/A	N/A
Mid Channel, Ch 157 - 5785 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 165 - 5825 MHz				1.921 ms	1.947 ms	1	98.6	N/A	N/A
High Channel, Ch 165 - 5825 MHz				N/A	N/A	6	N/A	N/A	N/A
40 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 149/153 - 5755 MHz				937.6 us	971.3 us	1	96.5	N/A	N/A
Low Channel, Ch 149/153 - 5755 MHz				N/A	N/A	5	N/A	N/A	N/A
High Channel, Ch 157/161 - 5795 MHz				937.7 us	971.4 us	1	96.5	N/A	N/A
High Channel, Ch 157/161 - 5795 MHz				N/A	N/A	5	N/A	N/A	N/A
80 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 149-161 - 5775 MHz				433.9 us	463.7 us	1	93.6	N/A	N/A
Low Channel, Ch 149-161 - 5775 MHz				N/A	N/A	6	N/A	N/A	N/A

DUTY CYCLE

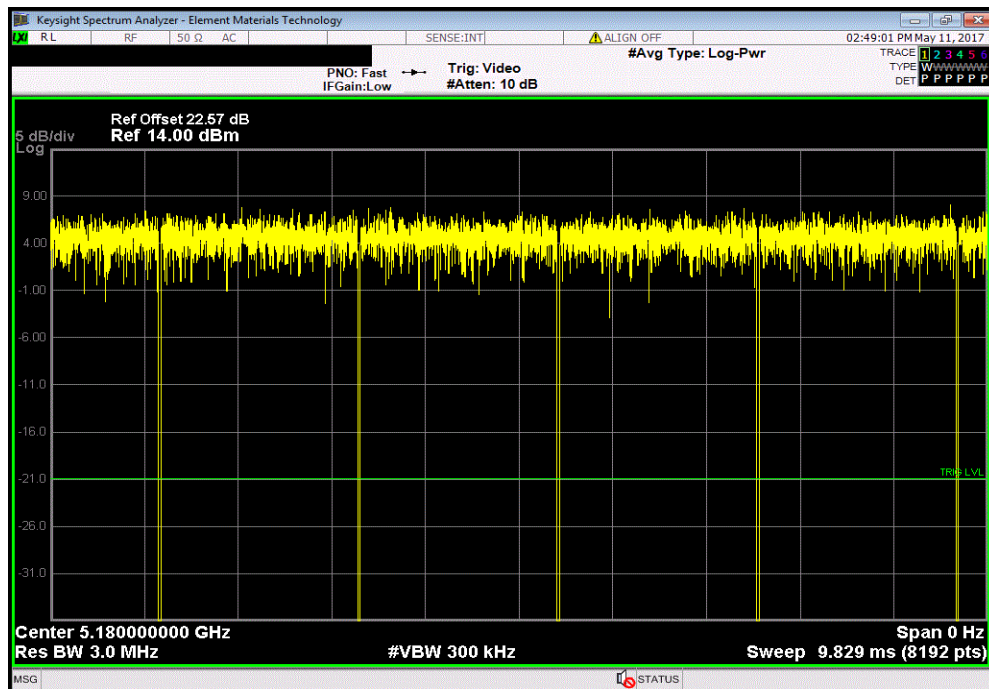


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Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 36 - 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.065 ms	2.092 ms	1	98.7	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 36 - 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

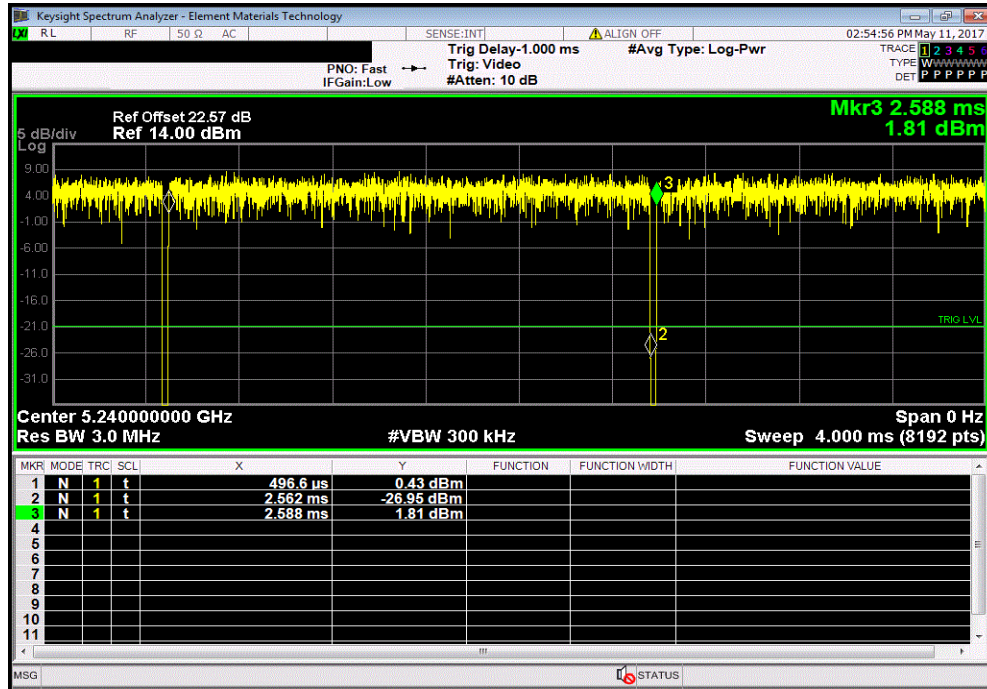


DUTY CYCLE

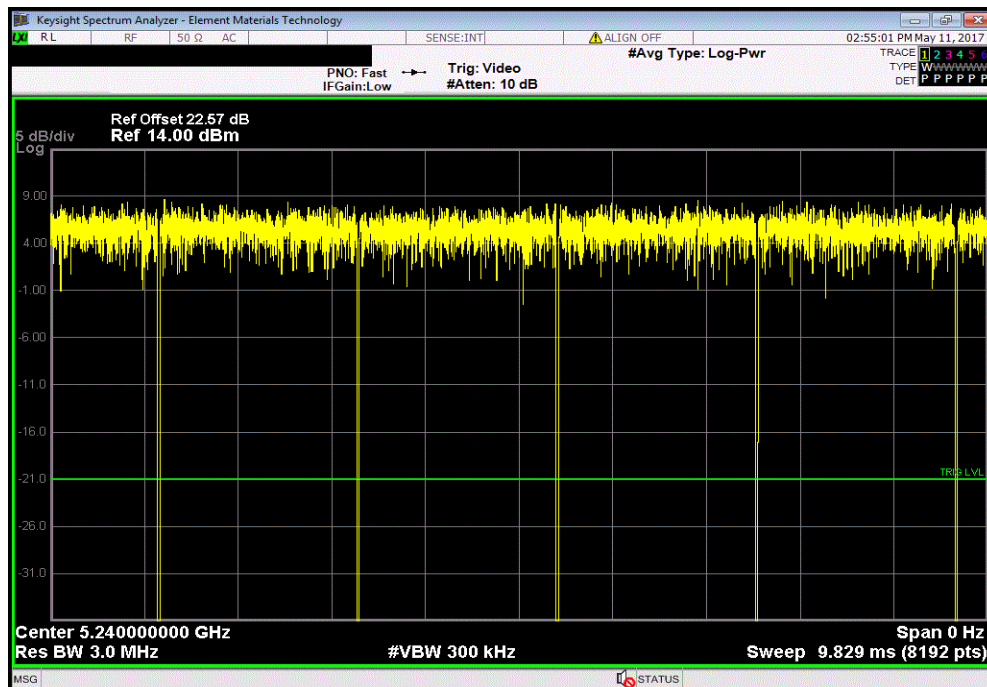


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Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 48 - 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.065 ms	2.092 ms	1	98.7	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 48 - 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

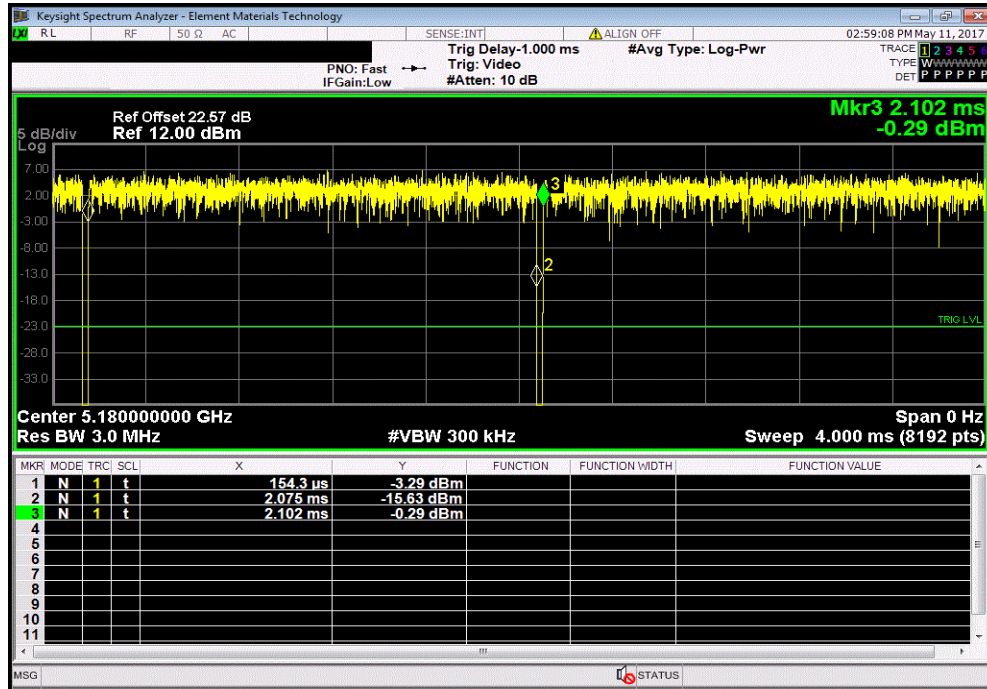


DUTY CYCLE

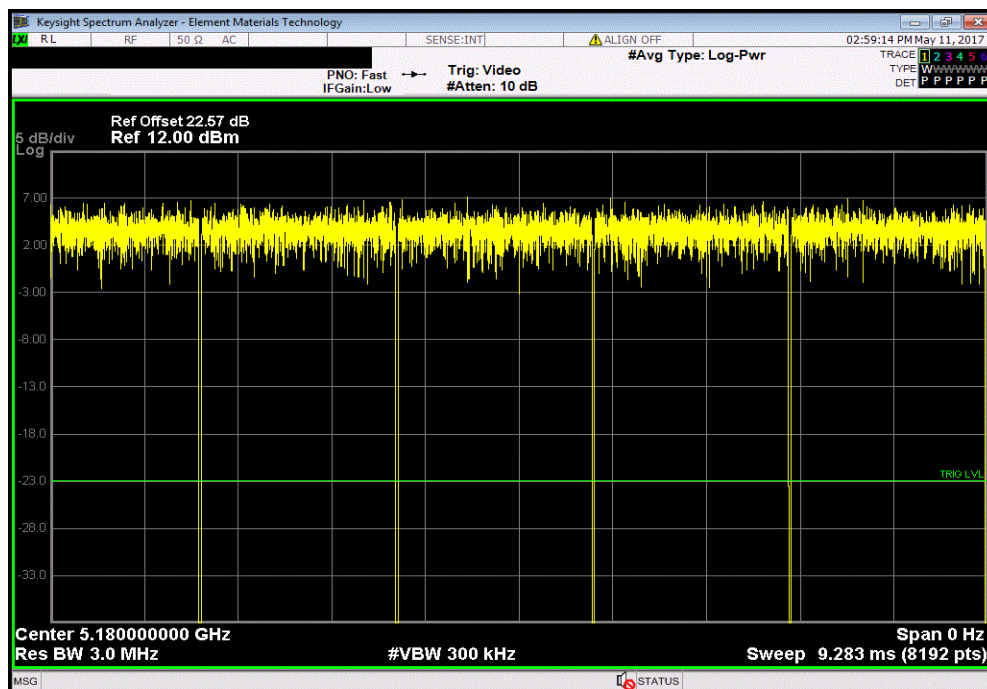


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Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36 - 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.921 ms	1.948 ms	1	98.6	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36 - 5180 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

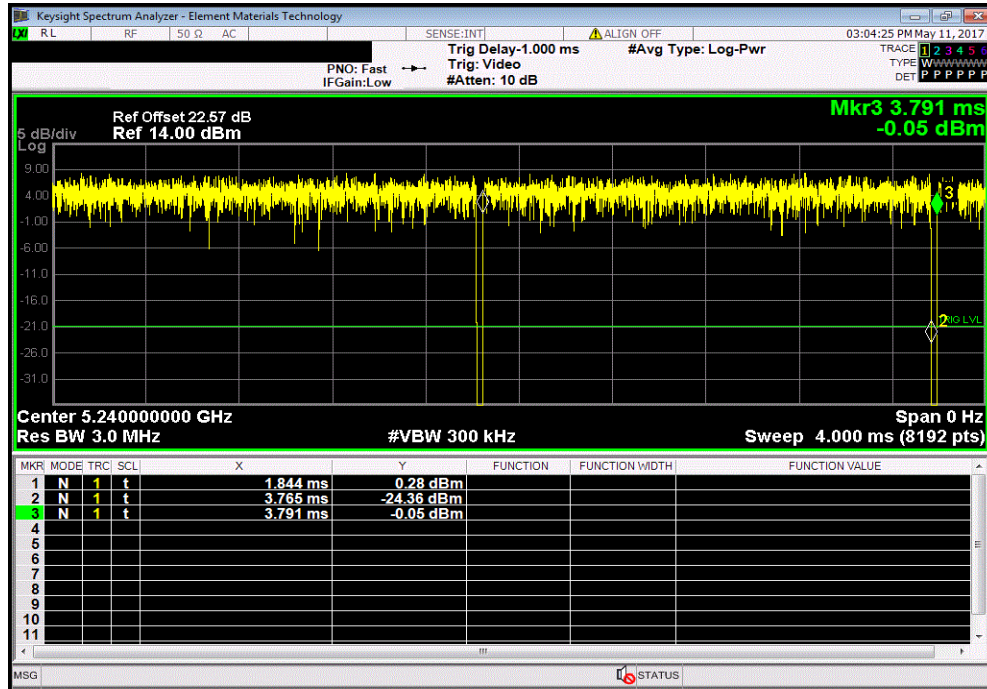


DUTY CYCLE

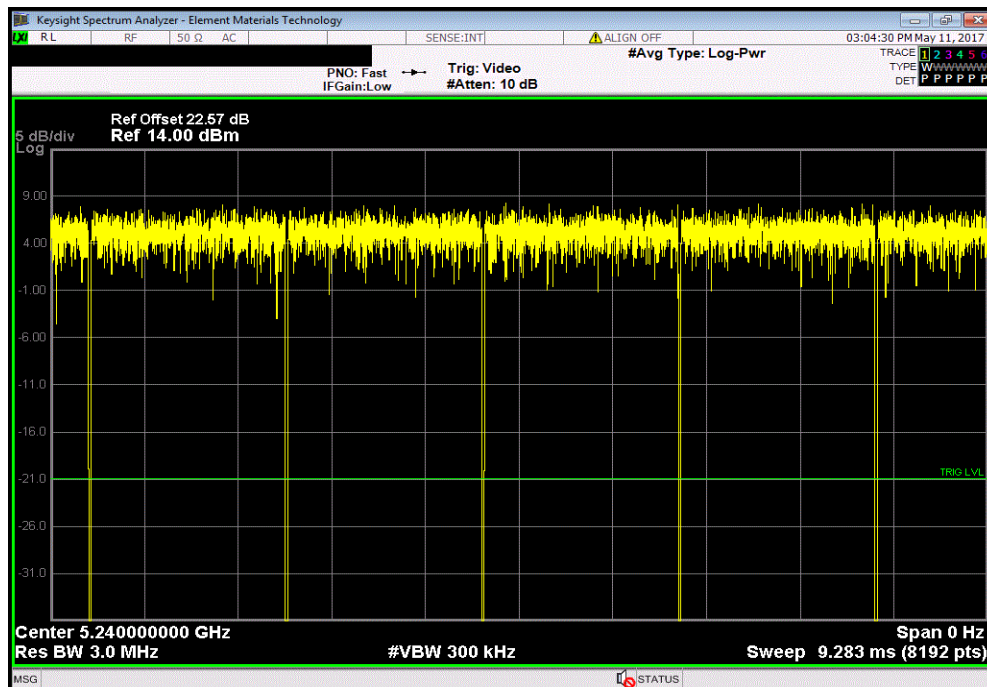


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Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 48 - 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.921 ms	1.947 ms	1	98.6	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 48 - 5240 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

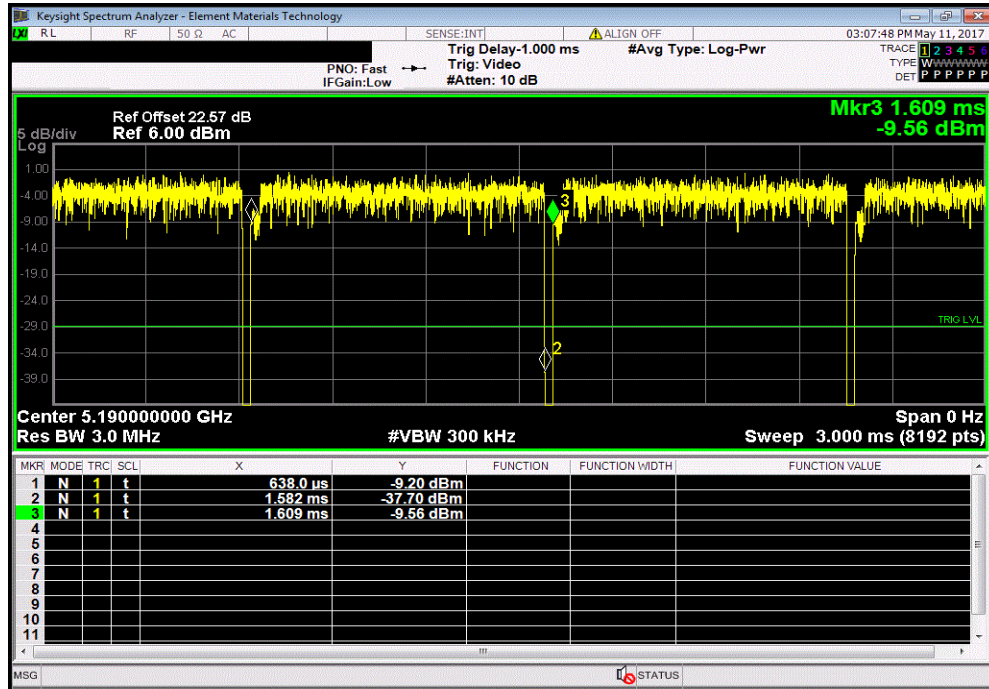


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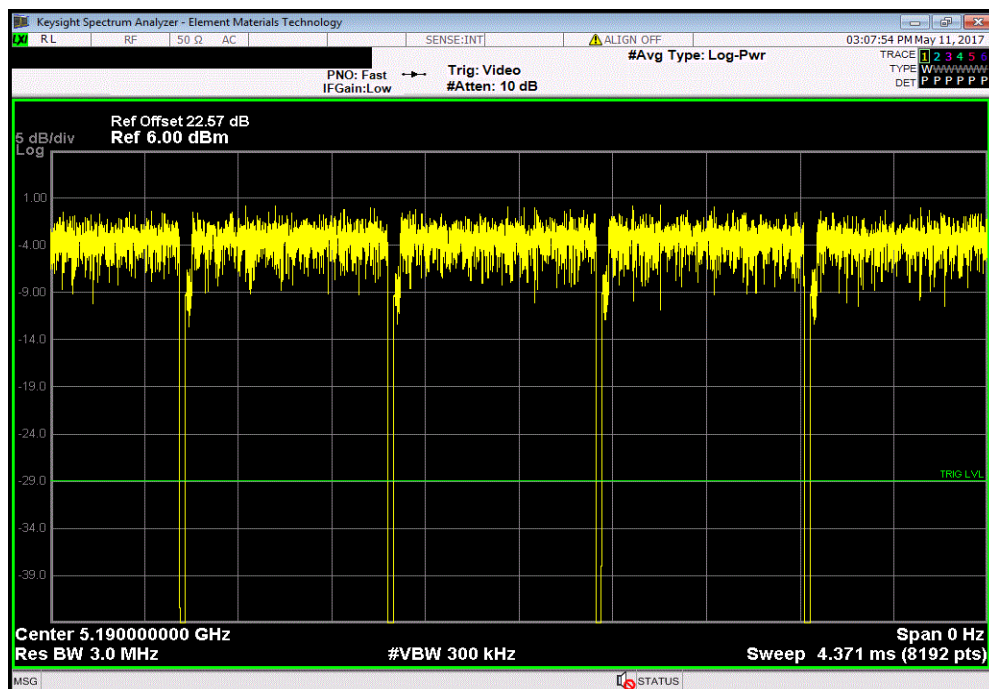


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Chain A, 5150 - 5250 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36/40 - 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
943.9 μ s	971.3 μ s	1	97.2	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36/40 - 5190 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

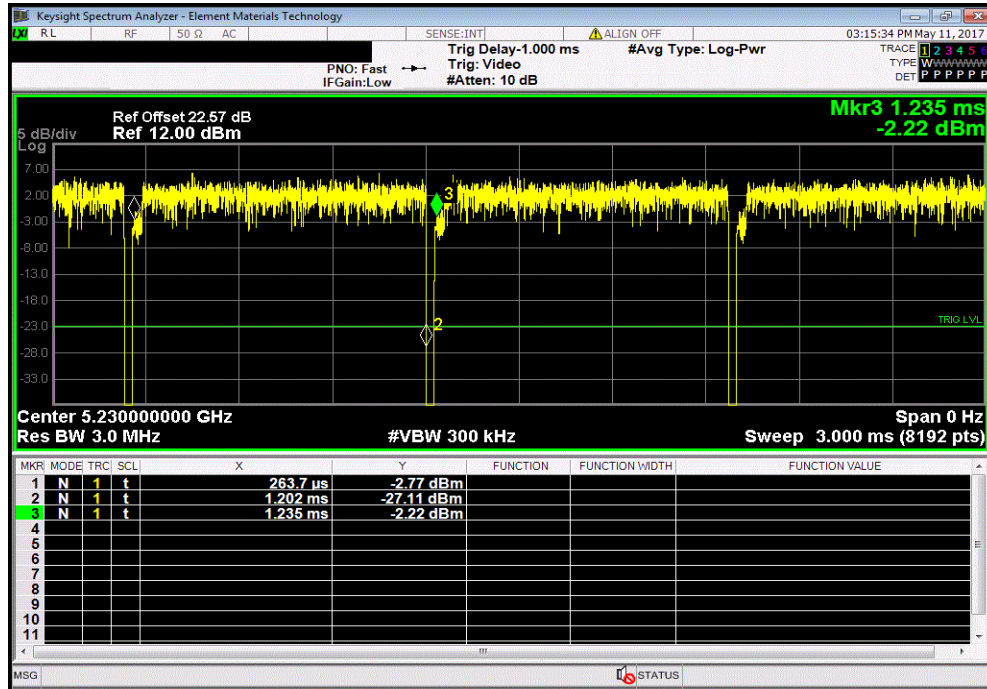


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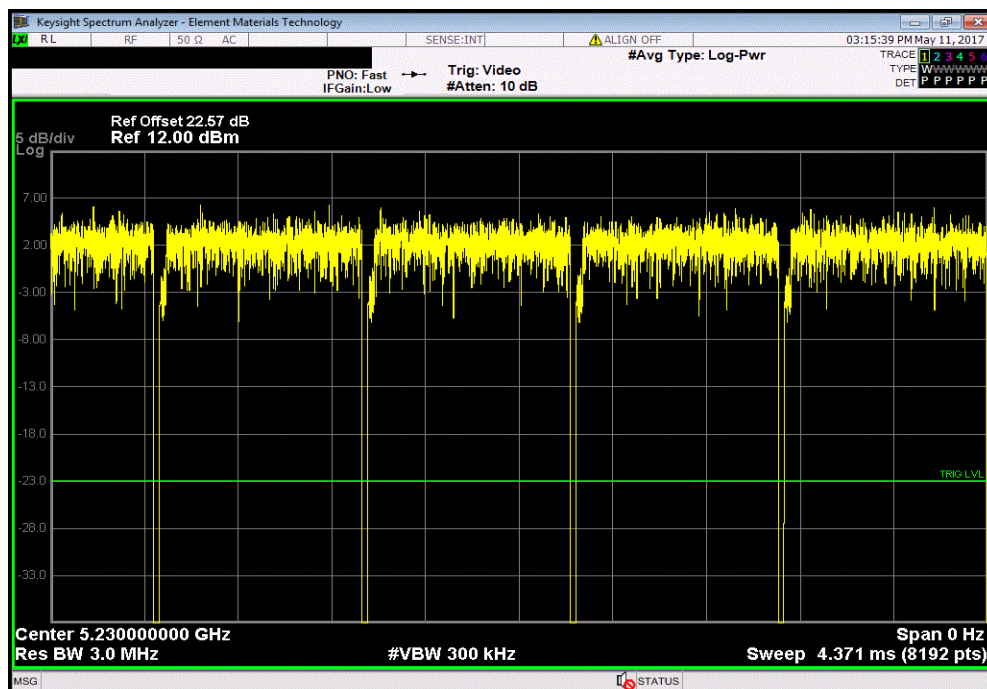


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Chain A, 5150 - 5250 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 44/48 - 5230 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
938 us	971.3 us	1	96.6	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 44/48 - 5230 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

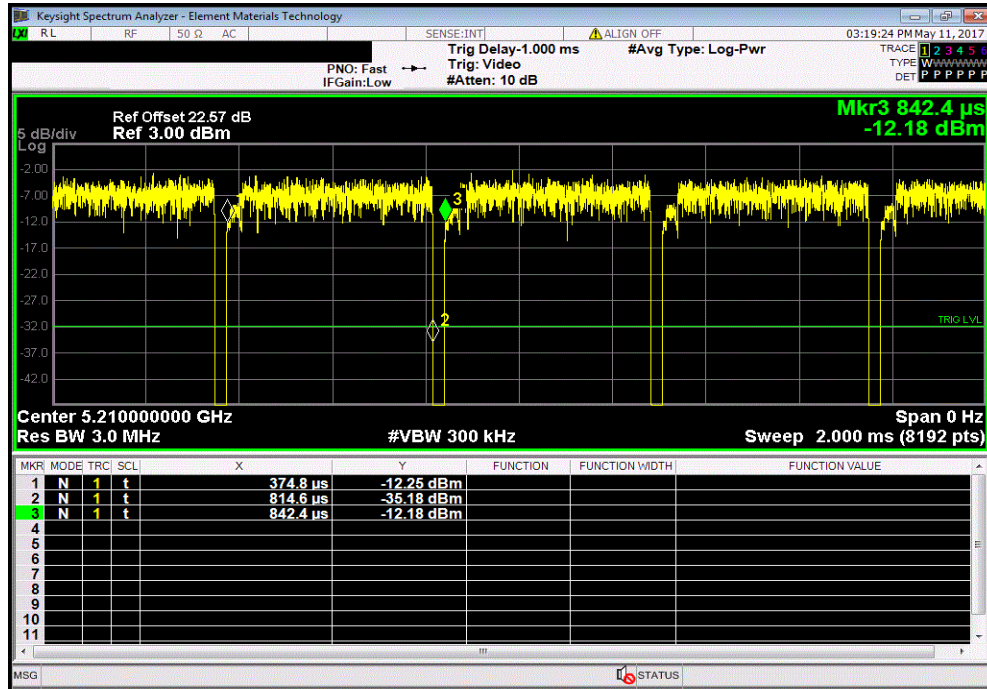


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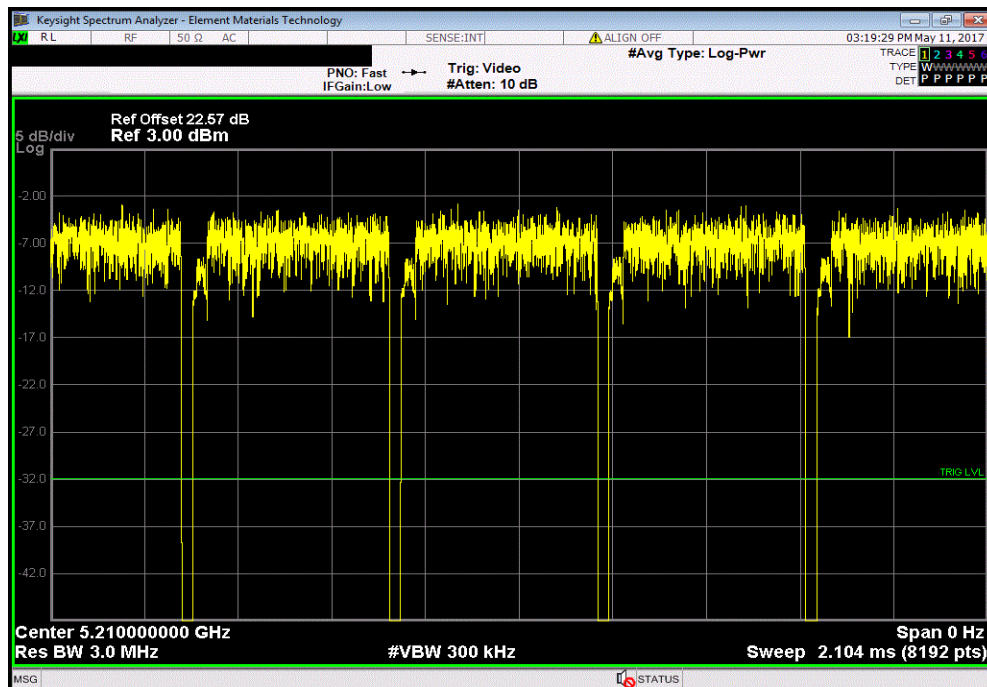


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Chain A, 5150 - 5250 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36-48 - 5210 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
439.8 μ s	467.6 μ s	1	94.1	N/A	N/A	



Chain A, 5150 - 5250 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36-48 - 5210 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

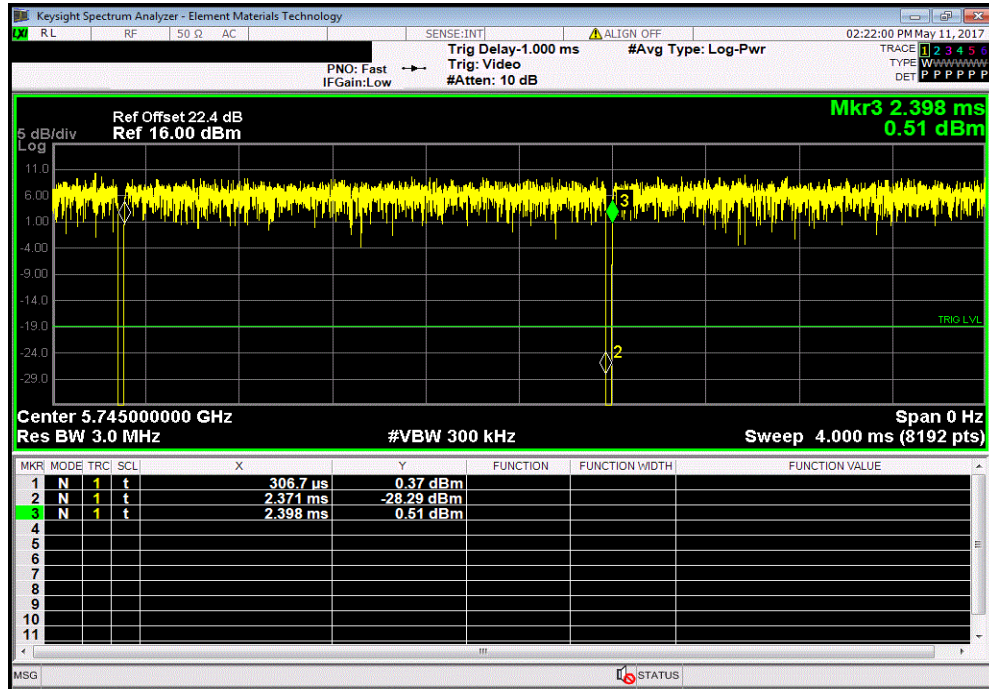


DUTY CYCLE

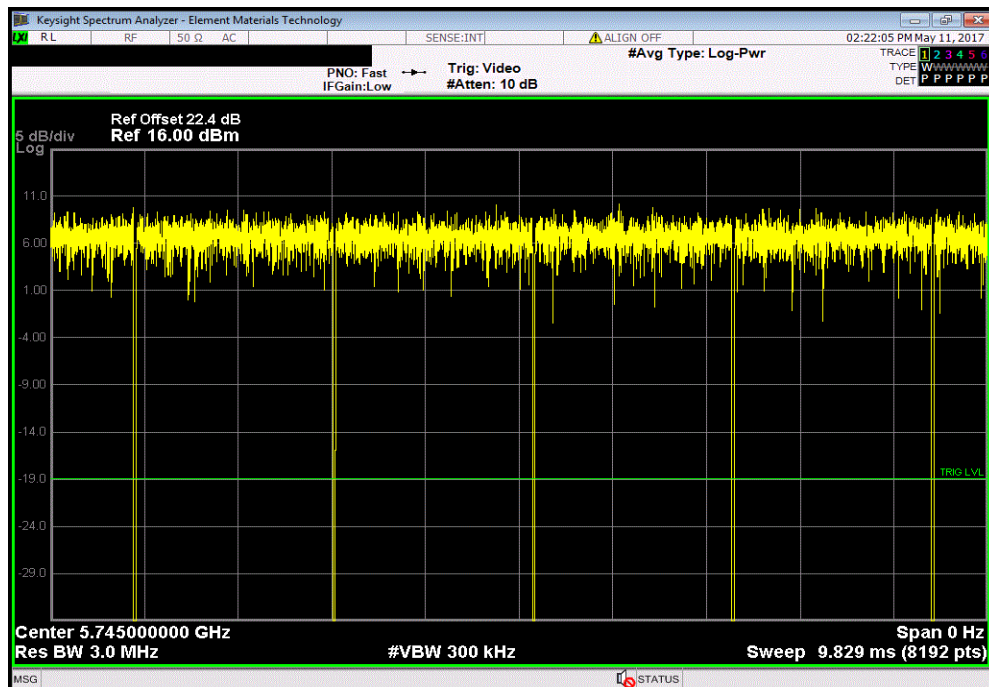


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 149 - 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.065 ms	2.091 ms	1	98.7	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 149 - 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

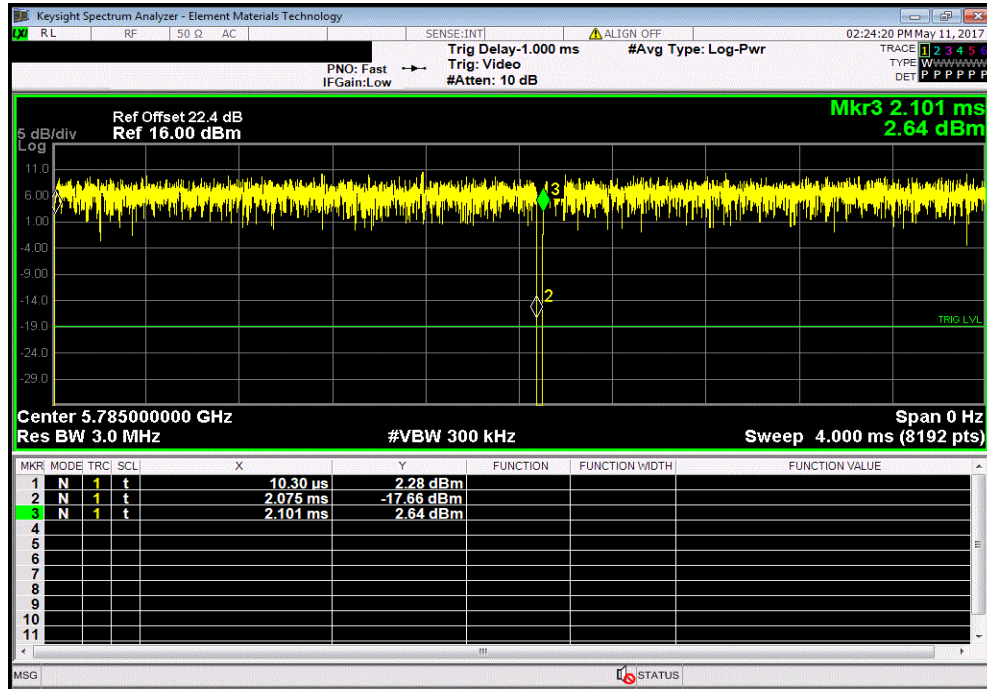


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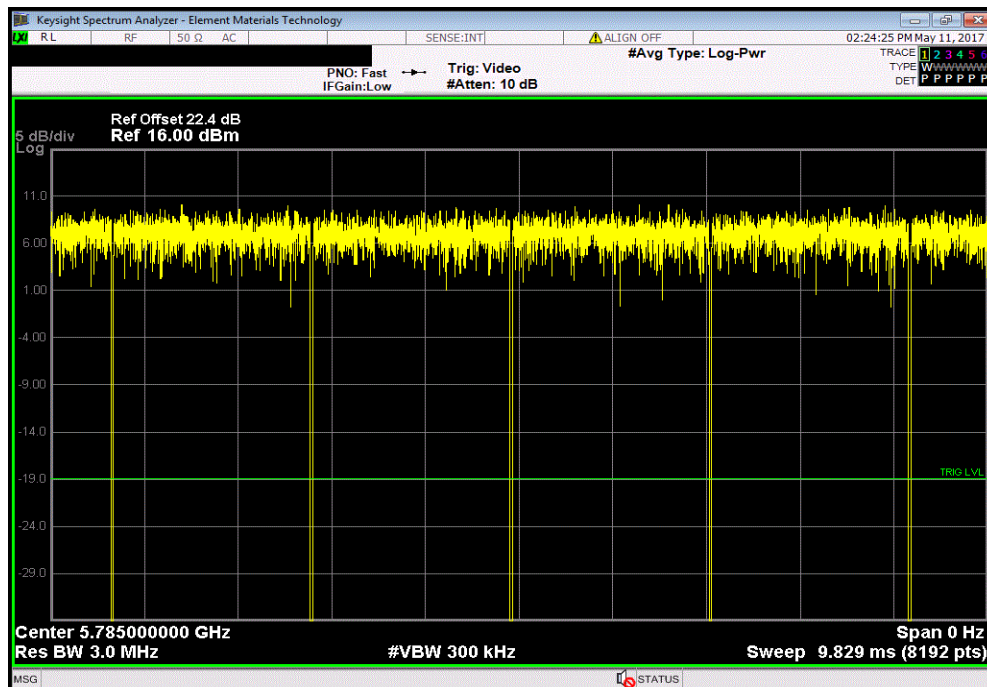


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Mid Channel, Ch 157 - 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.064 ms	2.091 ms	1	98.7	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Mid Channel, Ch 157 - 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

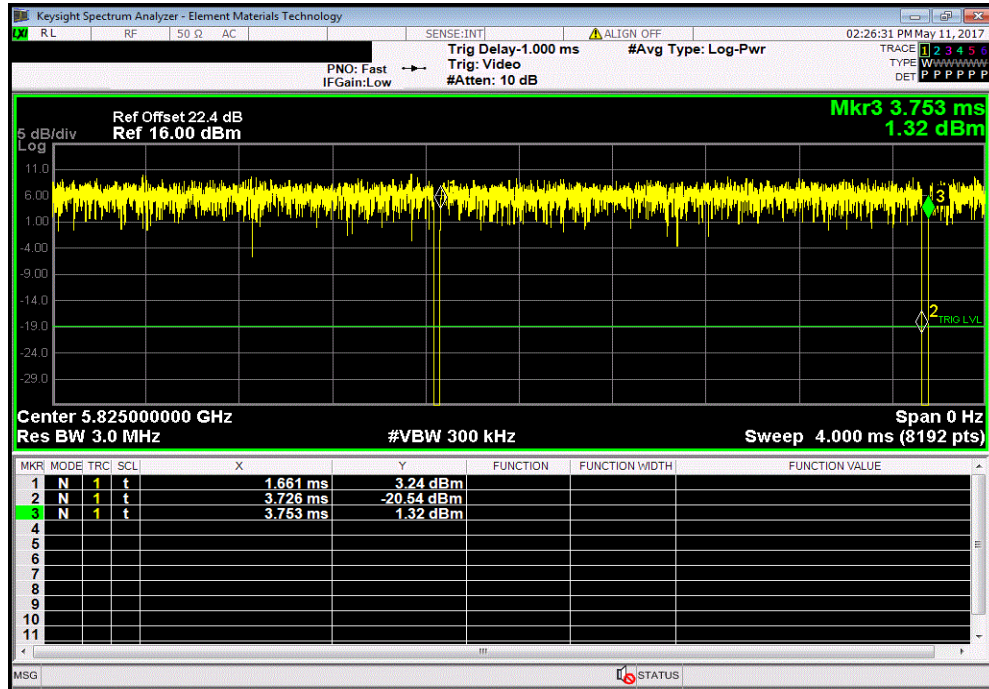


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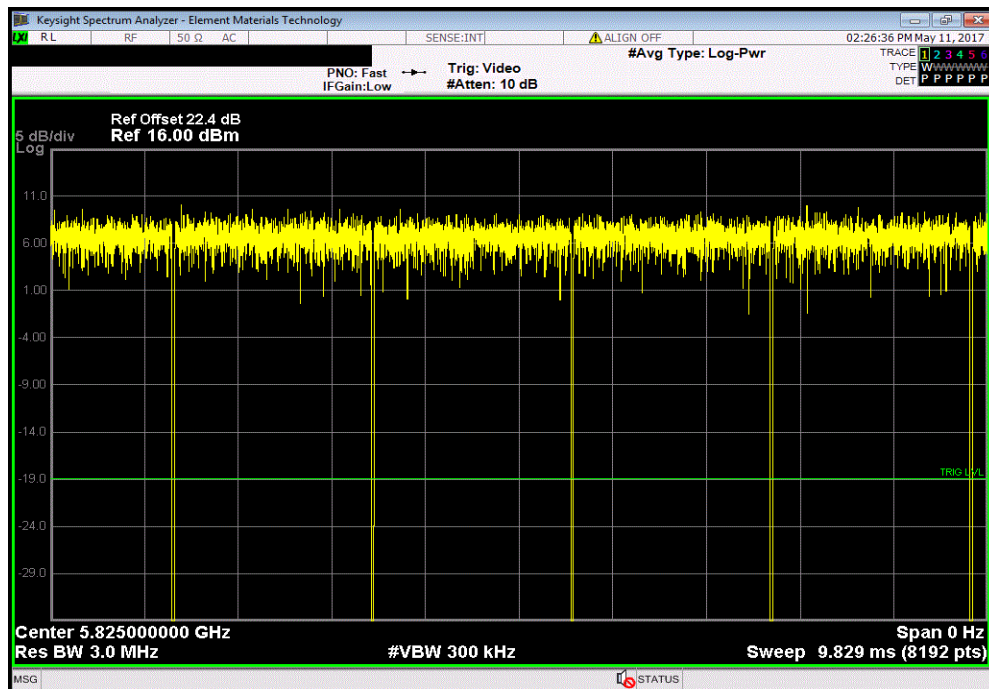


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 165 - 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.064 ms	2.092 ms	1	98.7	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 165 - 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

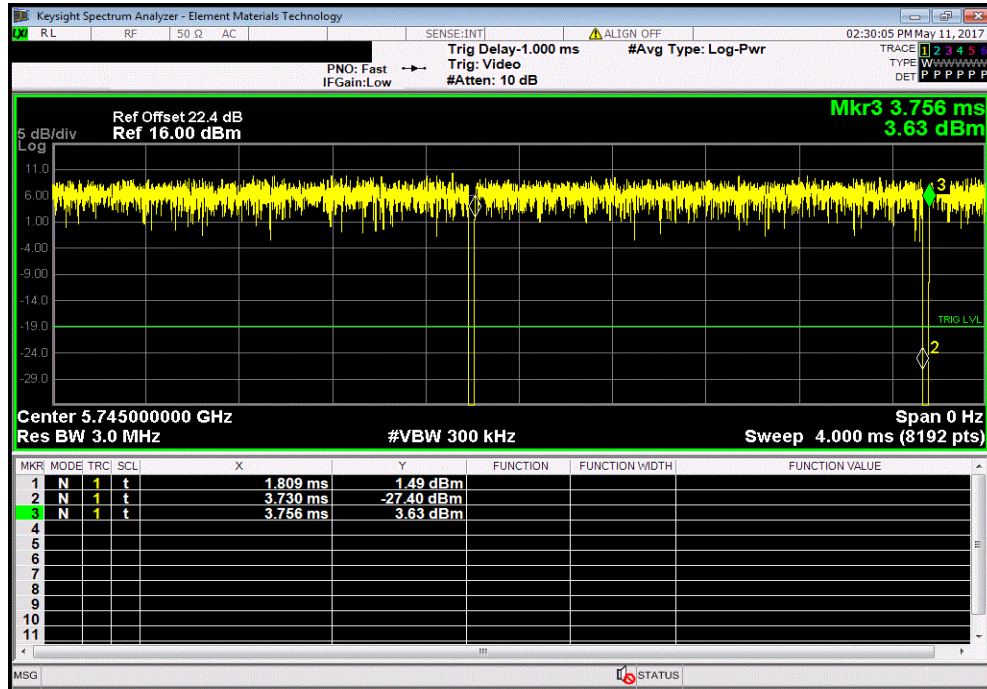


DUTY CYCLE

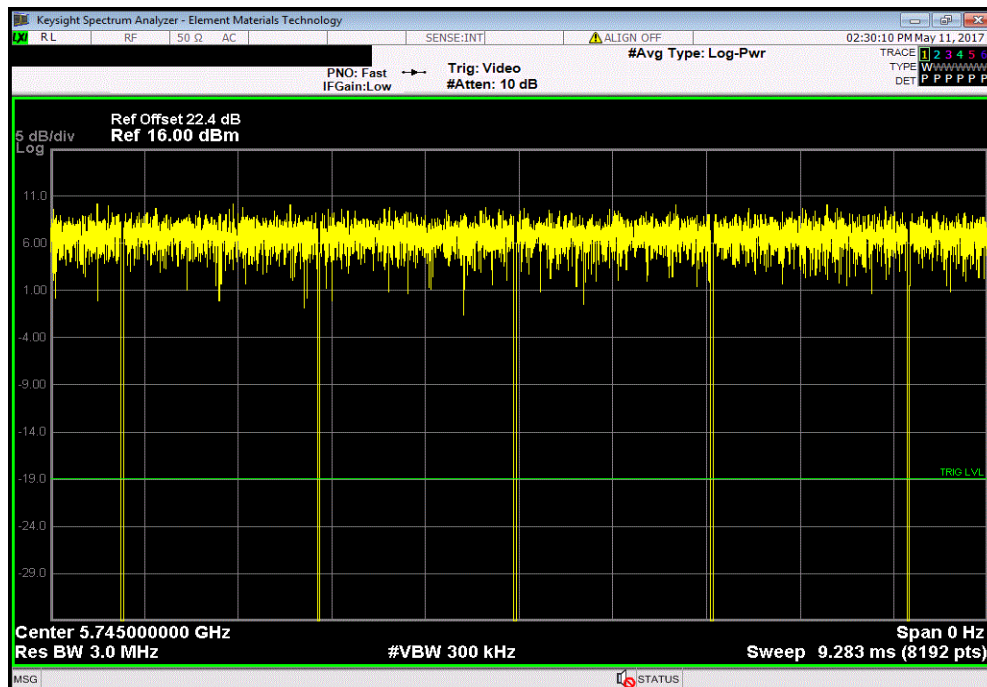


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149 - 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.921 ms	1.948 ms	1	98.6	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149 - 5745 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

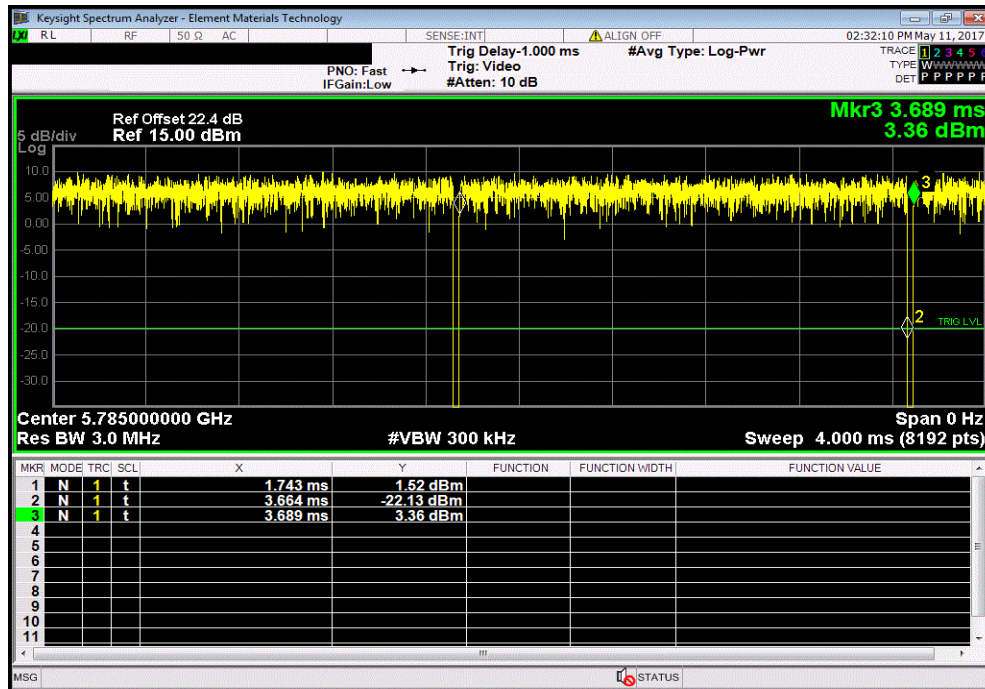


DUTY CYCLE

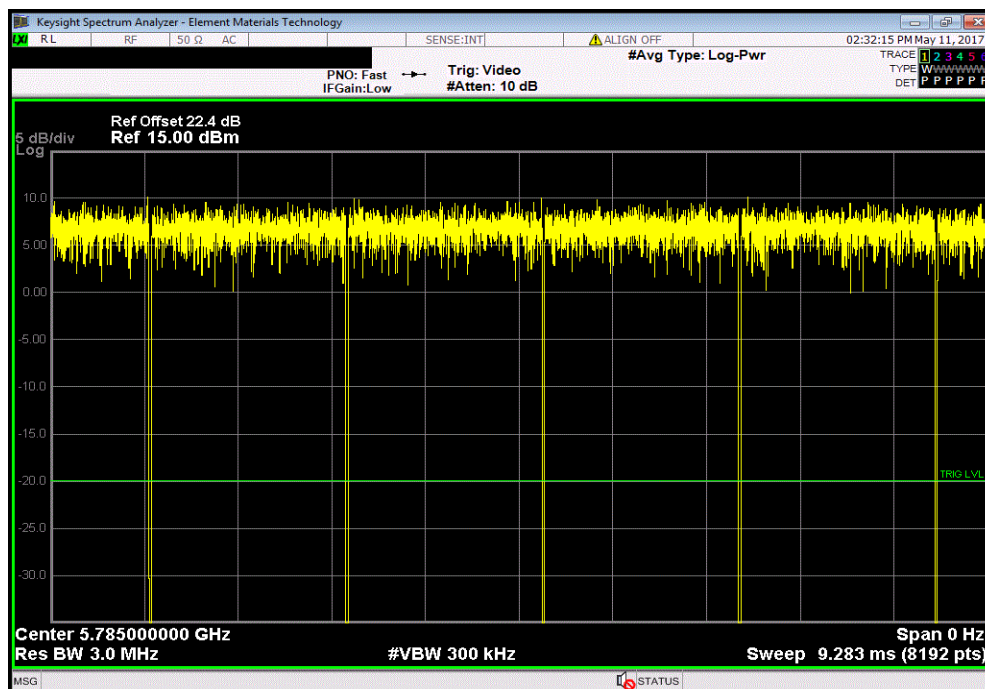


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 157 - 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.921 ms	1.947 ms	1	98.7	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 157 - 5785 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

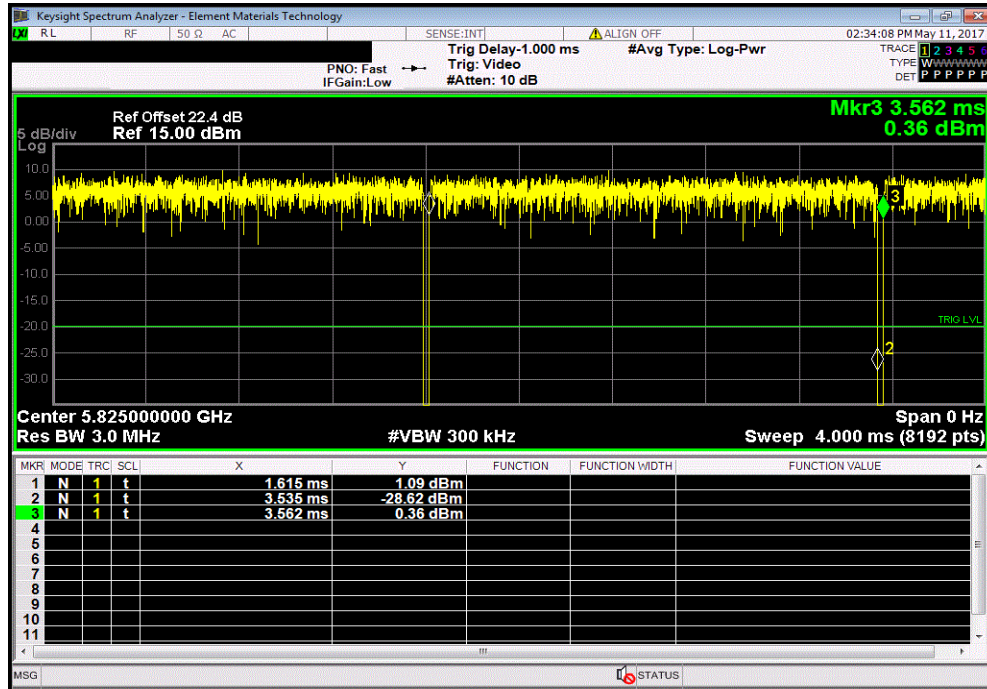


DUTY CYCLE

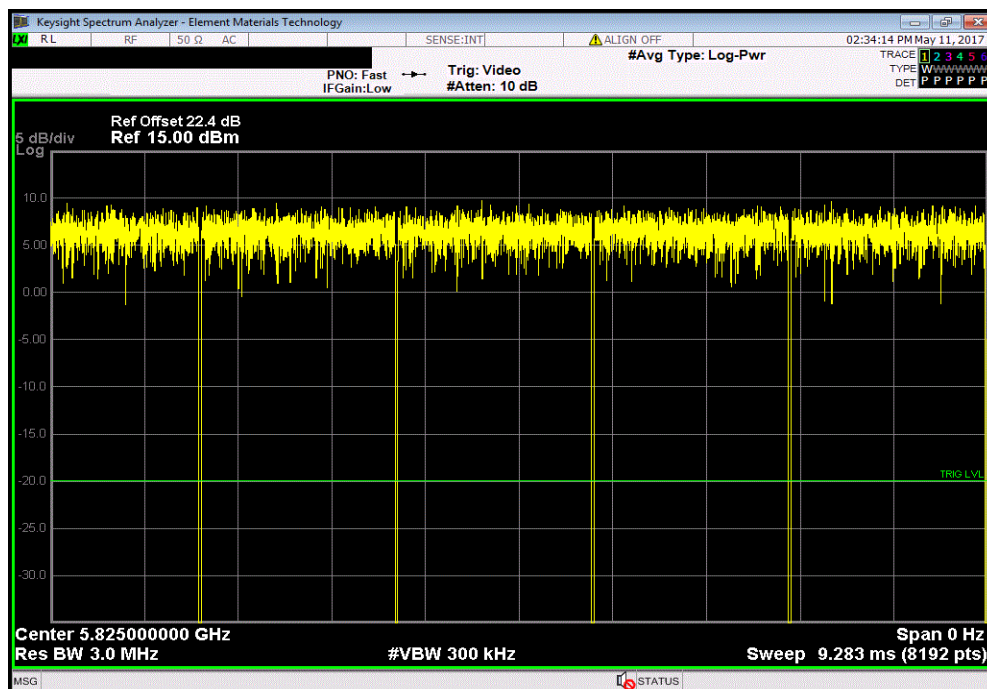


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 165 - 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.921 ms	1.947 ms	1	98.6	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 165 - 5825 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

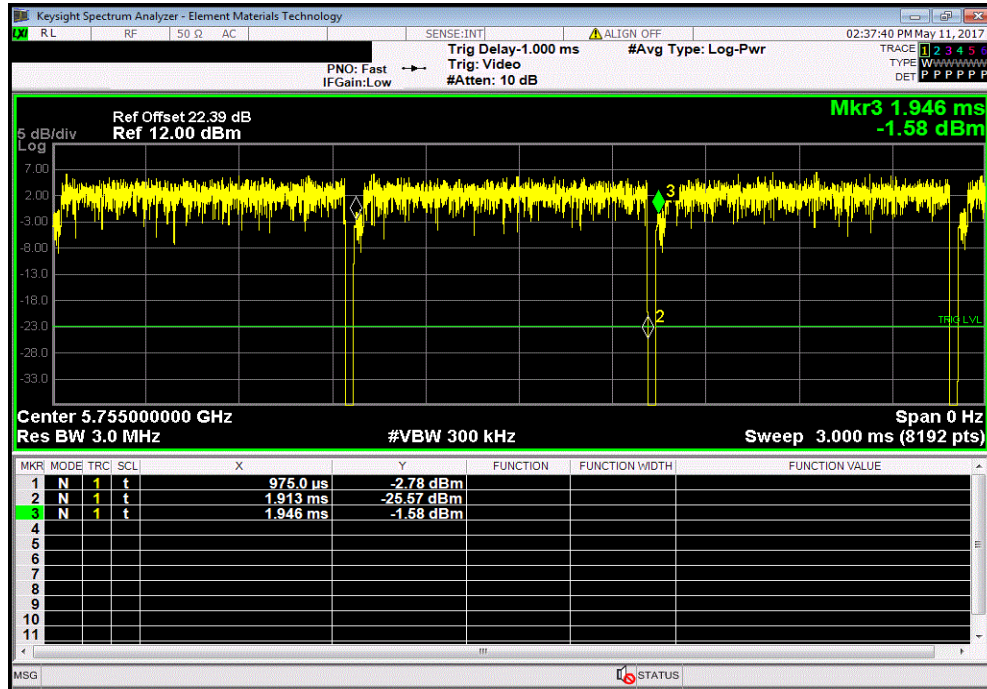


DUTY CYCLE

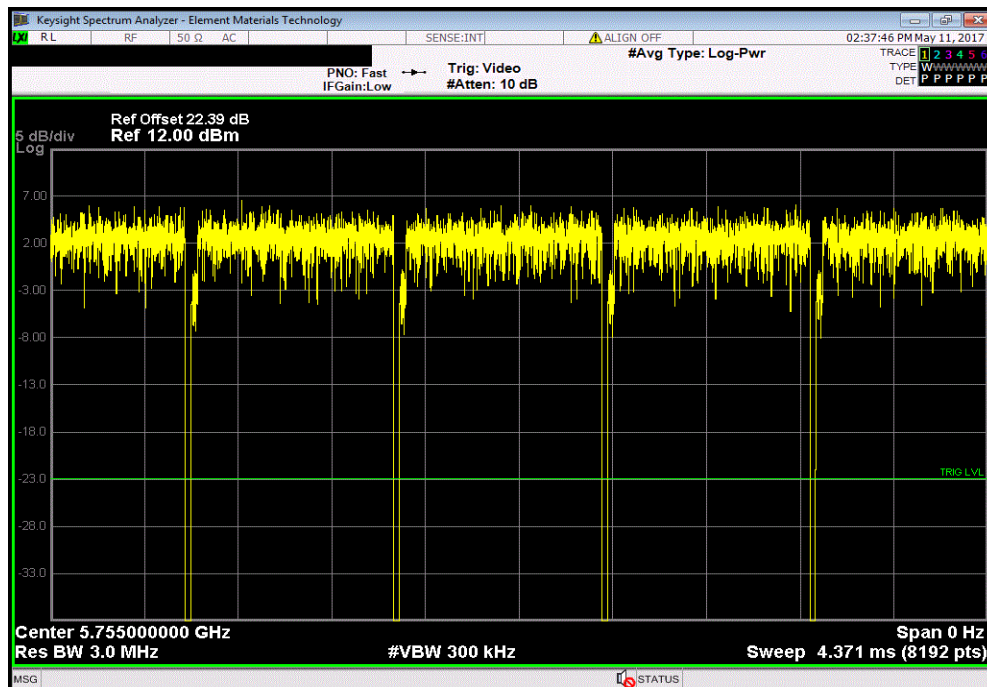


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Chain A, 5725 - 5785 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149/153 - 5755 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
937.6 us	971.3 us	1	96.5	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149/153 - 5755 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

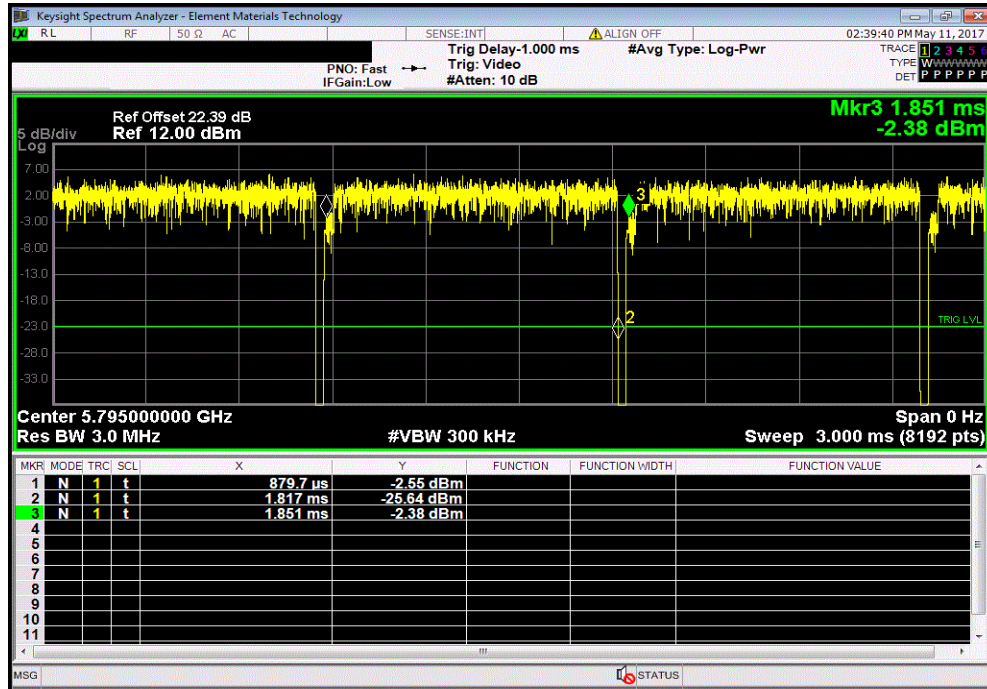


DUTY CYCLE

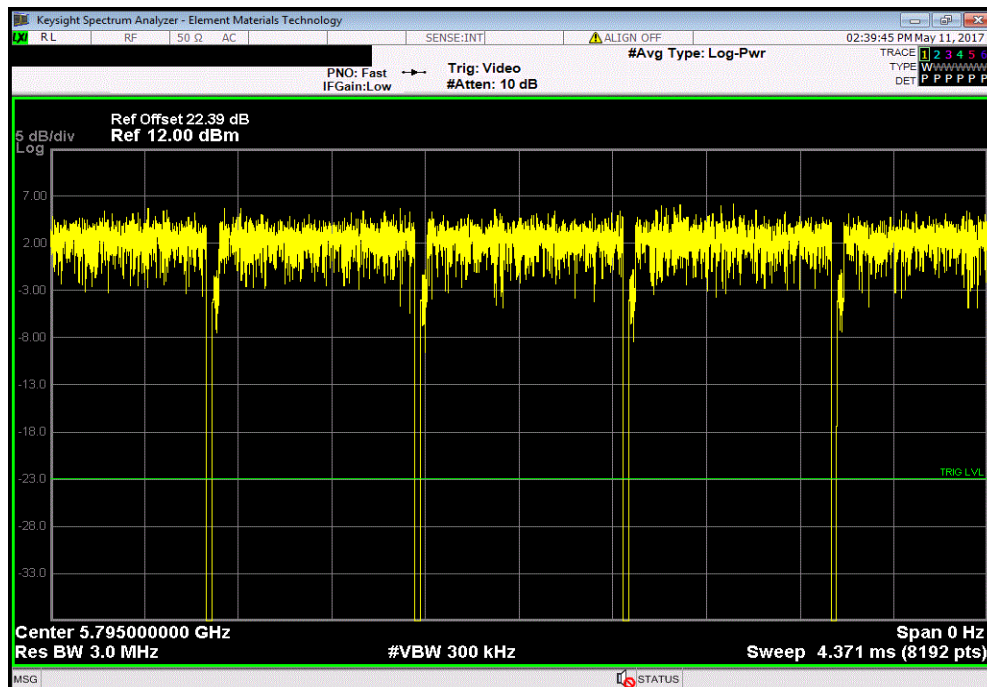


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Chain A, 5725 - 5785 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 157/161 - 5795 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
937.7 us	971.4 us	1	96.5	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 157/161 - 5795 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

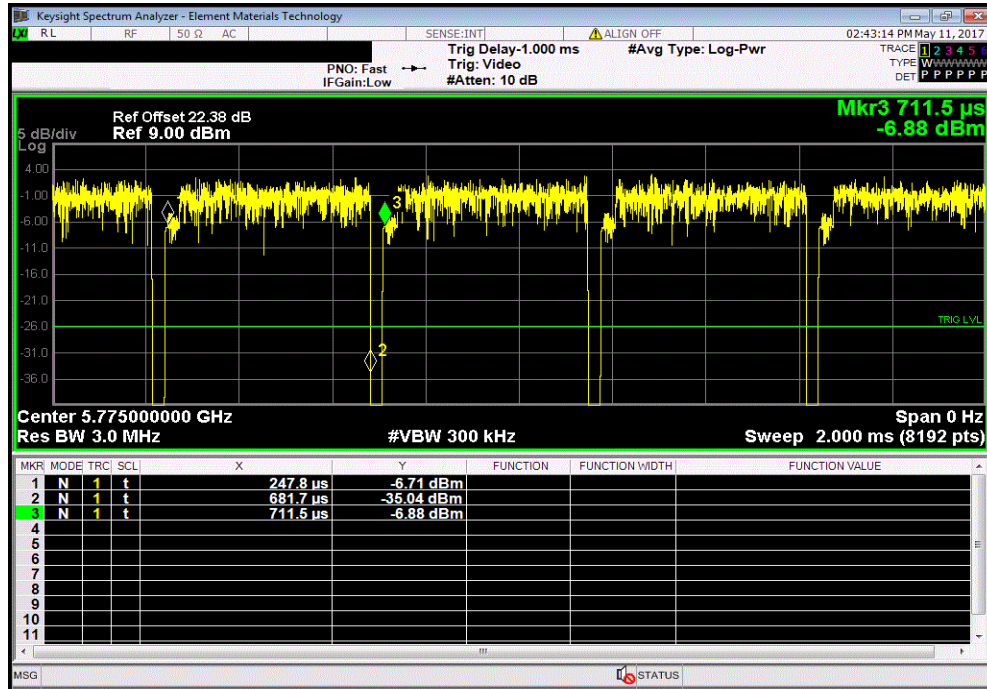


DUTY CYCLE

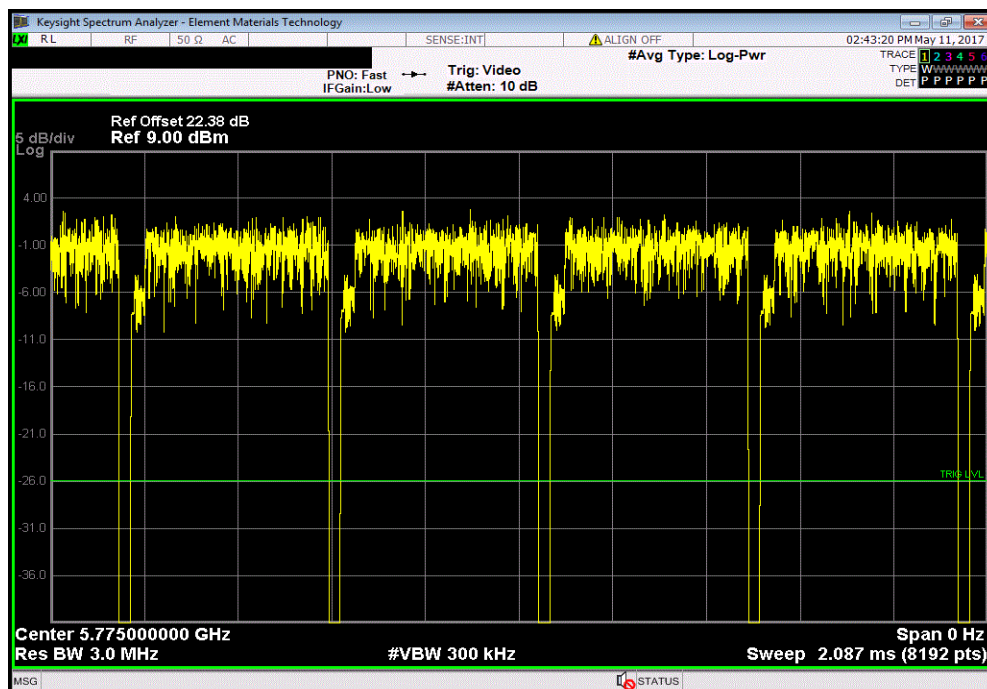


TMTx 2017.01.27 XMI 2017.02.08

Chain A, 5725 - 5785 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149-161 - 5775 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
433.9 μ s	463.7 μ s	1	93.6	N/A	N/A	



Chain A, 5725 - 5785 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149-161 - 5775 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



DUTY CYCLE



XMIT 2017.02.08

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 EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Cable	Fairview Microwave	SCK0963-60	TXF	11/18/2016	11/18/2017
Attenuator	Fairview Microwave	SA4018-20	TYE	10/24/2016	10/24/2017
Block - DC	Fairview Microwave	SD3379	AMT	10/24/2016	10/24/2017
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	3/14/2017	3/14/2018

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per ANSI C63.10, all measurements are to be performed with the EUT operating at 100% duty cycle at its maximum power level. In the event the EUT cannot be operated at 100% duty cycle, the transmission pulse duration (T) and Duty Cycle (x) are required to be measured for each of the EUT operating modes.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

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 test method guidance using the following formula

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

Where D is duty cycle of the radio transmissions

DUTY CYCLE



TbTx 2017.07.11 XMt 2017.02.08

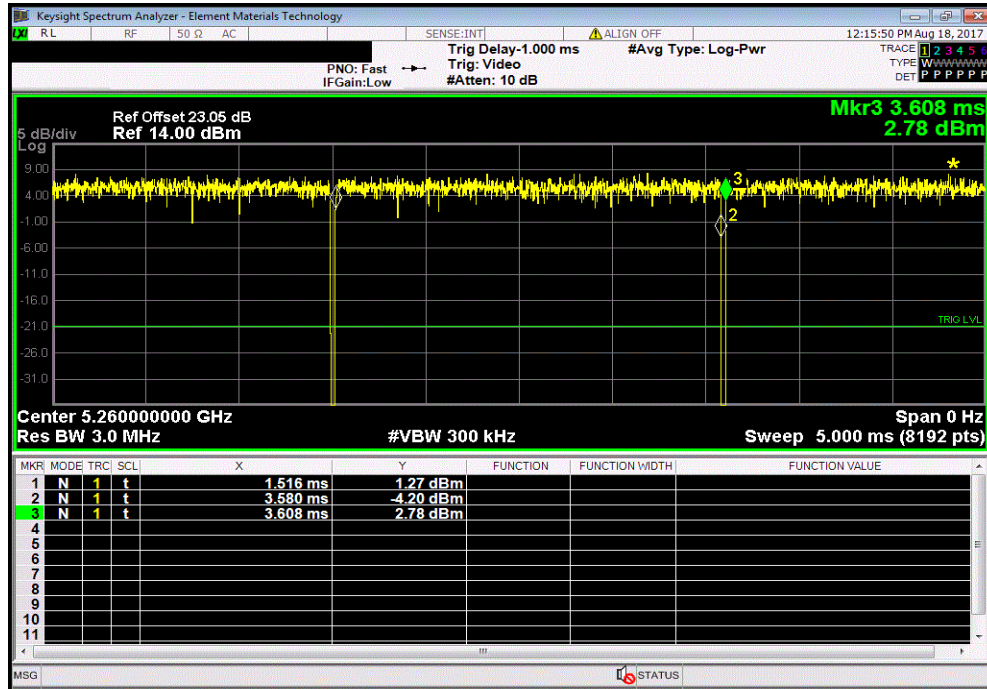
EUT: Dual Band Wireless-AC 3160 Module				Work Order: APPR0050					
Serial Number: None				Date: 08/18/17					
Customer: American Portwell Technology Inc.				Temperature: 22.7 °C					
Attendees: None				Humidity: 55% RH					
Project: None				Barometric Pres.: 1020 mbar					
Tested by: Jonathan Kiefer			Power: 110VAC/60Hz	Job Site: TX02					
TEST SPECIFICATIONS				Test Method					
FCC 15.407:2017				ANSI C63.10:2013					
COMMENTS									
See Power Table for output power settings used.									
DEVIATIONS FROM TEST STANDARD									
None									
Configuration #	1	Signature 							
				Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results
Chain A									
5250 - 5350 MHz Band									
20 MHz BW									
802.11(a) 6 Mbps									
Low Channel, Ch 52 - 5260 MHz				2.065 ms	2.093 ms	1	98.7	N/A	N/A
Low Channel, Ch 52 - 5260 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 64 - 5320 MHz				2.065 ms	2.093 ms	1	98.7	N/A	N/A
High Channel, Ch 64 - 5320 MHz				N/A	N/A	6	N/A	N/A	N/A
802.11(n) MCS0									
Low Channel, Ch 52 - 5260 MHz				1.917 ms	1.946 ms	1	98.5	N/A	N/A
Low Channel, Ch 52 - 5260 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 64 - 5320 MHz				1.919 ms	1.947 ms	1	98.6	N/A	N/A
High Channel, Ch 64 - 5320 MHz				N/A	N/A	6	N/A	N/A	N/A
40 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 52/56 - 5270 MHz				938 us	971 us	1	96.6	N/A	N/A
Low Channel, Ch 52/56 - 5270 MHz				N/A	N/A	5	N/A	N/A	N/A
High Channel, Ch 60/64 - 5310 MHz				937.7 us	970.6 us	1	96.6	N/A	N/A
High Channel, Ch 60/64 - 5310 MHz				N/A	N/A	5	N/A	N/A	N/A
80 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 52-64 - 5290 MHz				433.8 us	466.5 us	1	93	N/A	N/A
Low Channel, Ch 52-64 - 5290 MHz				N/A	N/A	6	N/A	N/A	N/A
5470 - 5725 MHz Band									
20 MHz BW									
802.11(a) 6 Mbps									
Low Channel, Ch 100 - 5500 MHz				2.065 ms	2.093 ms	1	98.7	N/A	N/A
Low Channel, Ch 100 - 5500 MHz				N/A	N/A	6	N/A	N/A	N/A
Mid Channel, Ch 116 - 5580 MHz				2.063 ms	2.091 ms	1	98.7	N/A	N/A
Mid Channel, Ch 116 - 5580 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 140 - 5700 MHz				2.063 ms	2.091 ms	1	98.7	N/A	N/A
High Channel, Ch 140 - 5700 MHz				N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS0									
Low Channel, Ch 100 - 5500 MHz				1.92 ms	1.947 ms	1	98.6	N/A	N/A
Low Channel, Ch 100 - 5500 MHz				N/A	N/A	6	N/A	N/A	N/A
Mid Channel, Ch 116 - 5580 MHz				1.92 ms	1.947 ms	1	98.6	N/A	N/A
Mid Channel, Ch 116 - 5580 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 140 - 5700 MHz				1.92 ms	1.947 ms	1	98.6	N/A	N/A
High Channel, Ch 140 - 5700 MHz				N/A	N/A	6	N/A	N/A	N/A
40 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 100/104 - 5510 MHz				937.8 us	971.6 us	1	96.5	N/A	N/A
Low Channel, Ch 100/104 - 5510 MHz				N/A	N/A	6	N/A	N/A	N/A
Mid Channel, Ch 116/120 - 5590 MHz				937 us	971 us	1	96.5	N/A	N/A
Mid Channel, Ch 116/120 - 5590 MHz				N/A	N/A	6	N/A	N/A	N/A
High Channel, Ch 132/136 - 5670 MHz				937.8 us	966.4 us	1	97	N/A	N/A
High Channel, Ch 132/136 - 5670 MHz				N/A	N/A	6	N/A	N/A	N/A
80 MHz BW									
802.11(n) MCS0									
Low Channel, Ch 100-112 - 5530 MHz				433.4 us	466.6 us	1	92.9	N/A	N/A
Low Channel, Ch 100-112 - 5530 MHz				N/A	N/A	5	N/A	N/A	N/A
Low Channel, Ch 116-128 - 5610 MHz				437.8 us	472.5 us	1	92.7	N/A	N/A
Low Channel, Ch 116-128 - 5610 MHz				N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE

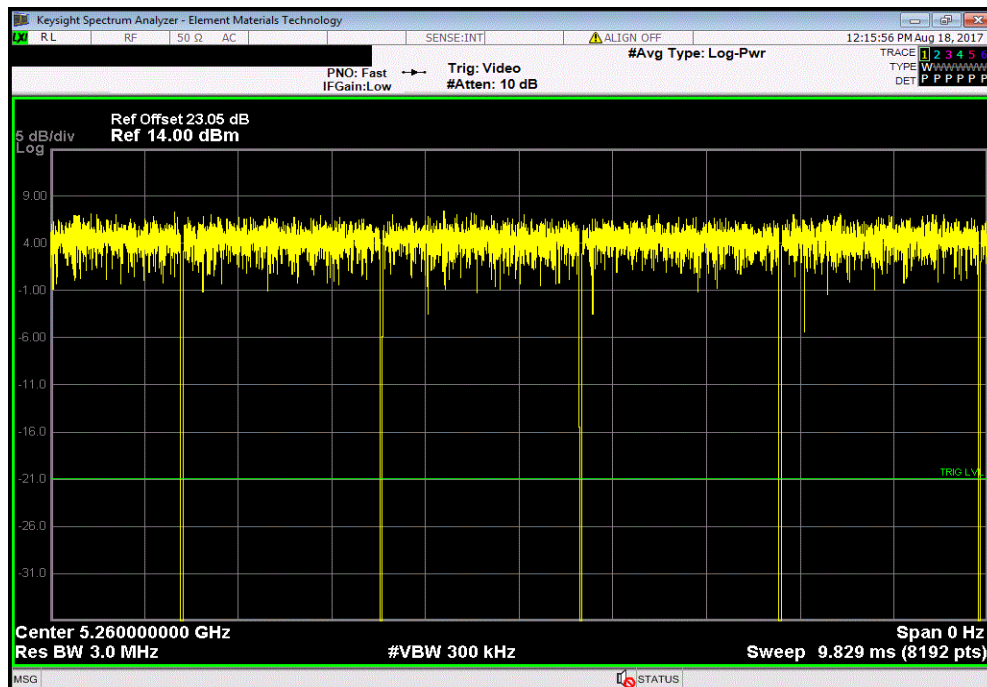


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 52 - 5260 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
2.065 ms	2.093 ms	1	98.7	N/A	N/A	



Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 52 - 5260 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

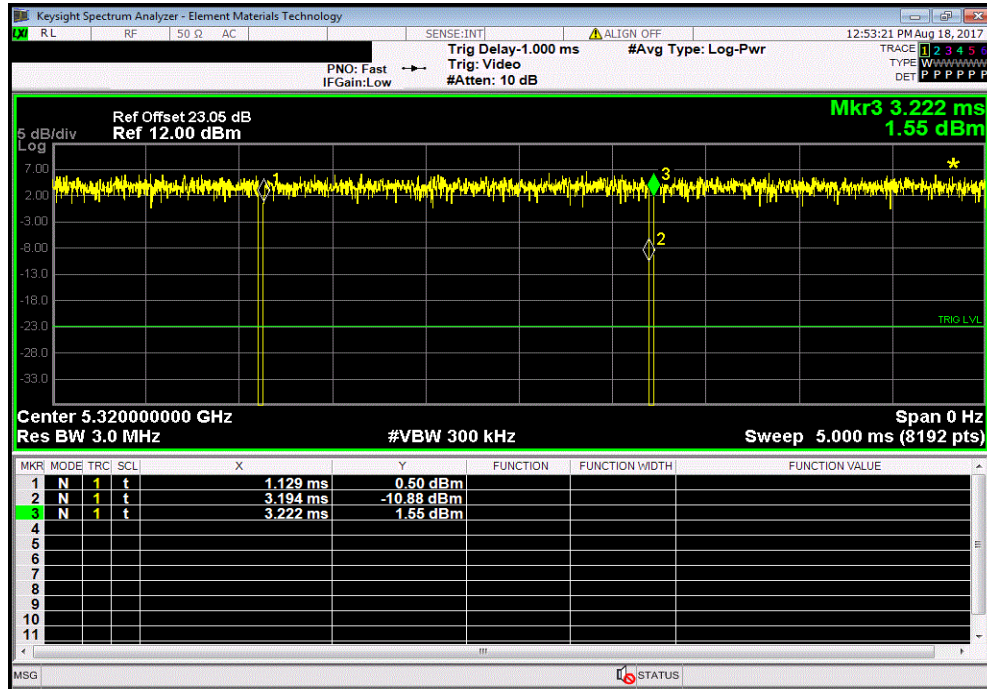


DUTY CYCLE

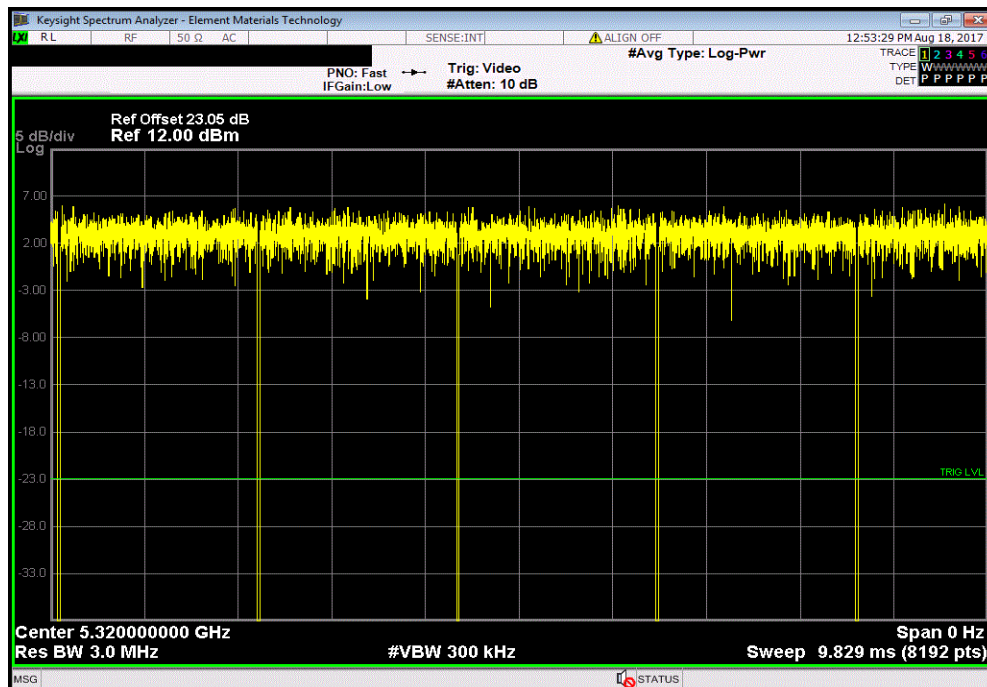


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 64 - 5320 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
2.065 ms	2.093 ms	1	98.7	N/A	N/A	



Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 64 - 5320 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

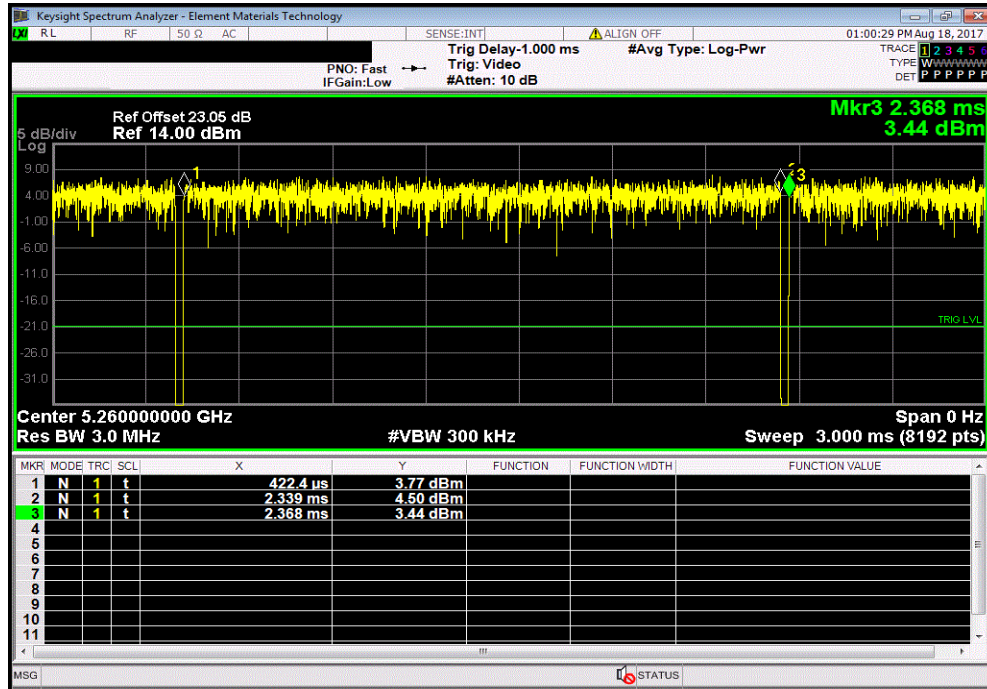


DUTY CYCLE

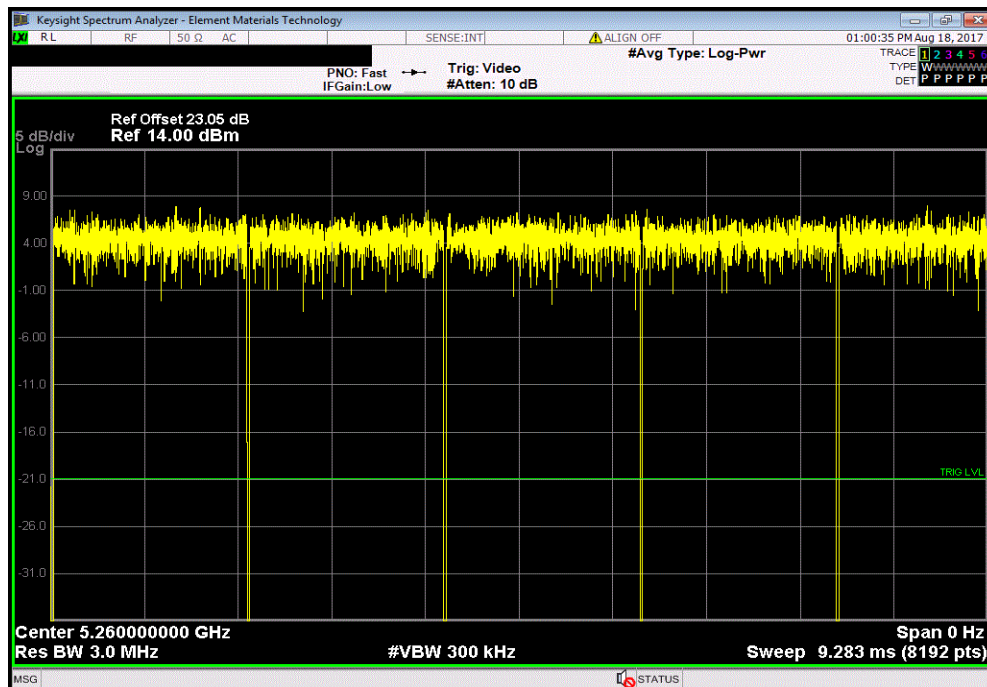


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 52 - 5260 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
1.917 ms	1.946 ms	1	98.5	N/A	N/A	



Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 52 - 5260 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	



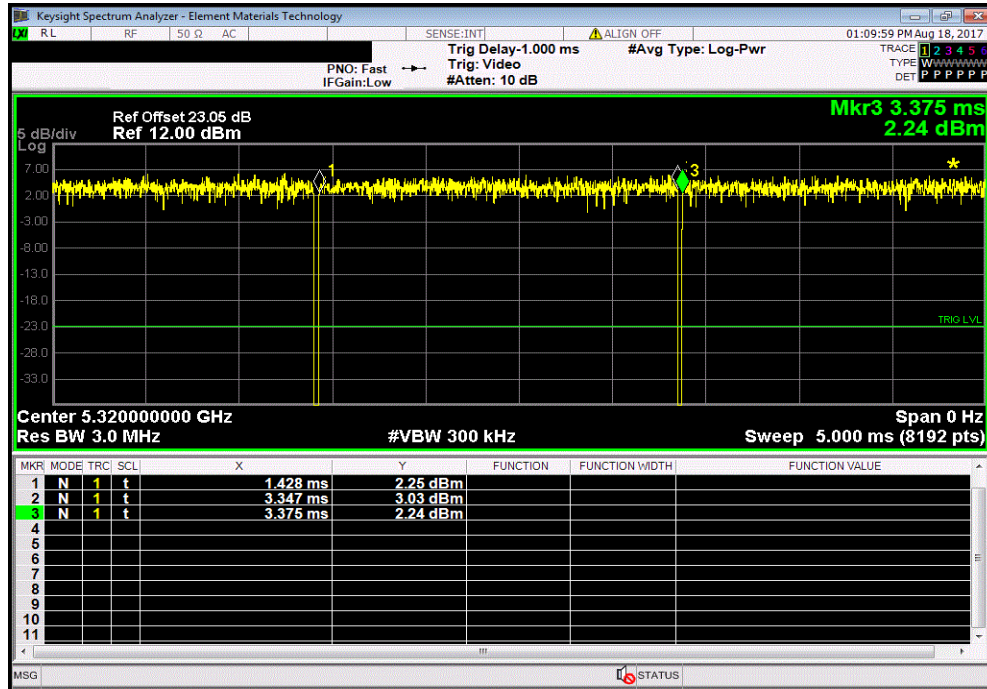
DUTY CYCLE



TMTx 2017.07.11 XMI 2017.02.08

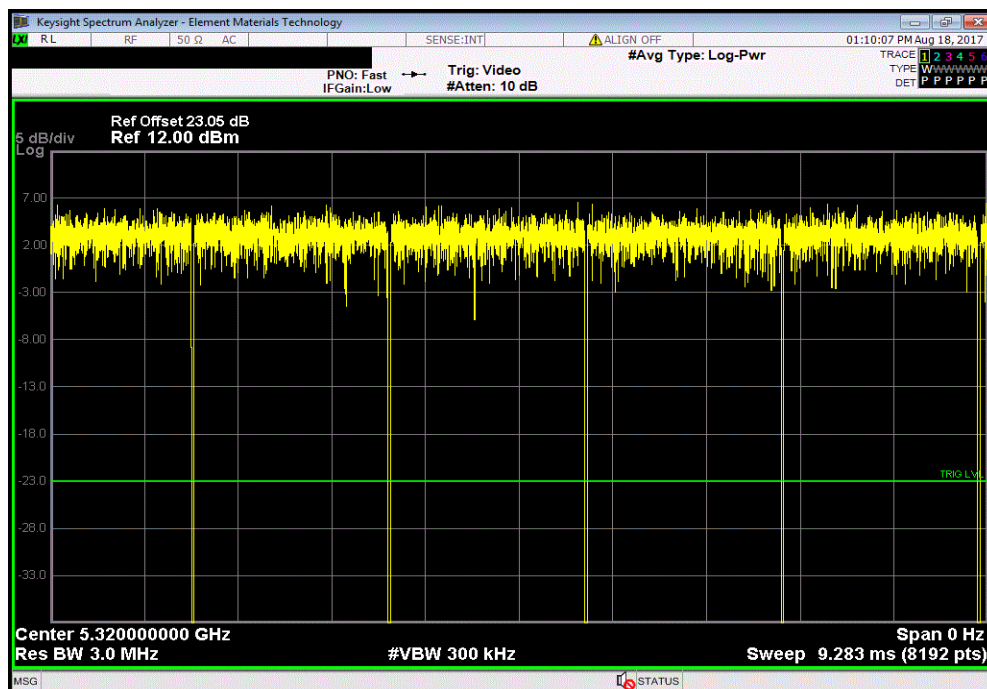
Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 64 - 5320 MHz

Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results
1.919 ms	1.947 ms	1	98.6	N/A	N/A



Chain A, 5250 - 5350 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 64 - 5320 MHz

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

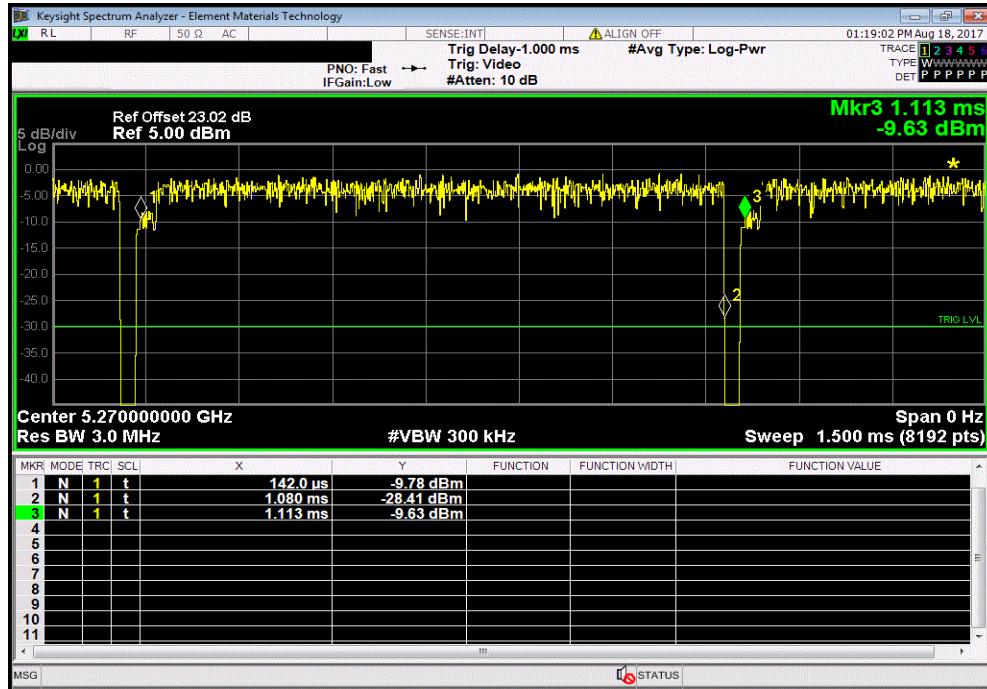


DUTY CYCLE

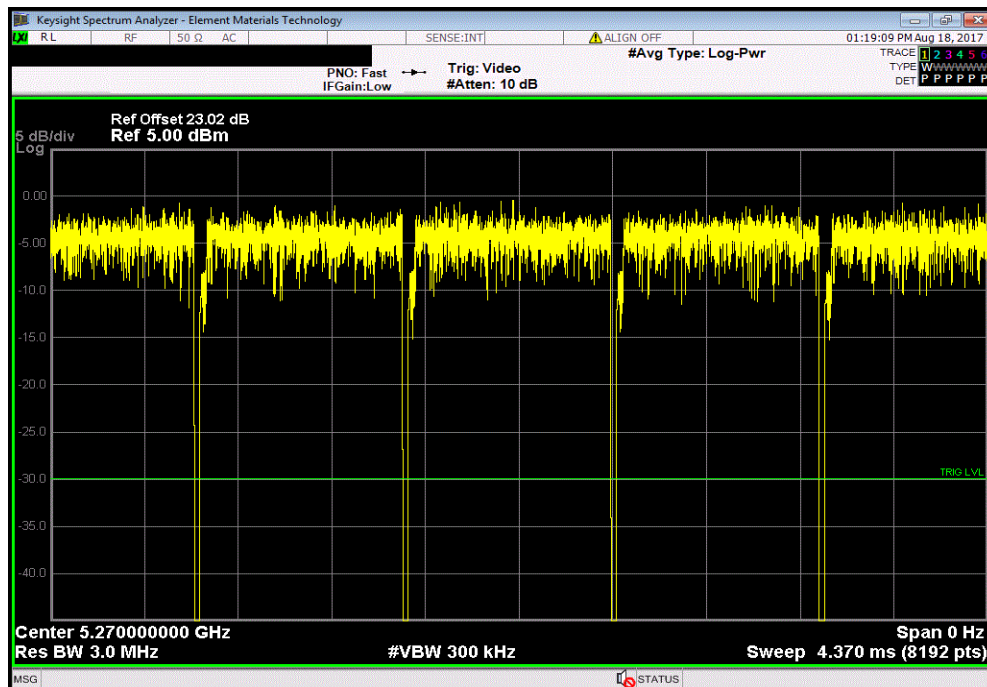


TMTx 2017.07.11 XMM 2017.02.08

Chain A, 5250 - 5350 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 52/56 - 5270 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
938 us	971 us	1	96.6	N/A	N/A	



Chain A, 5250 - 5350 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 52/56 - 5270 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A	N/A	

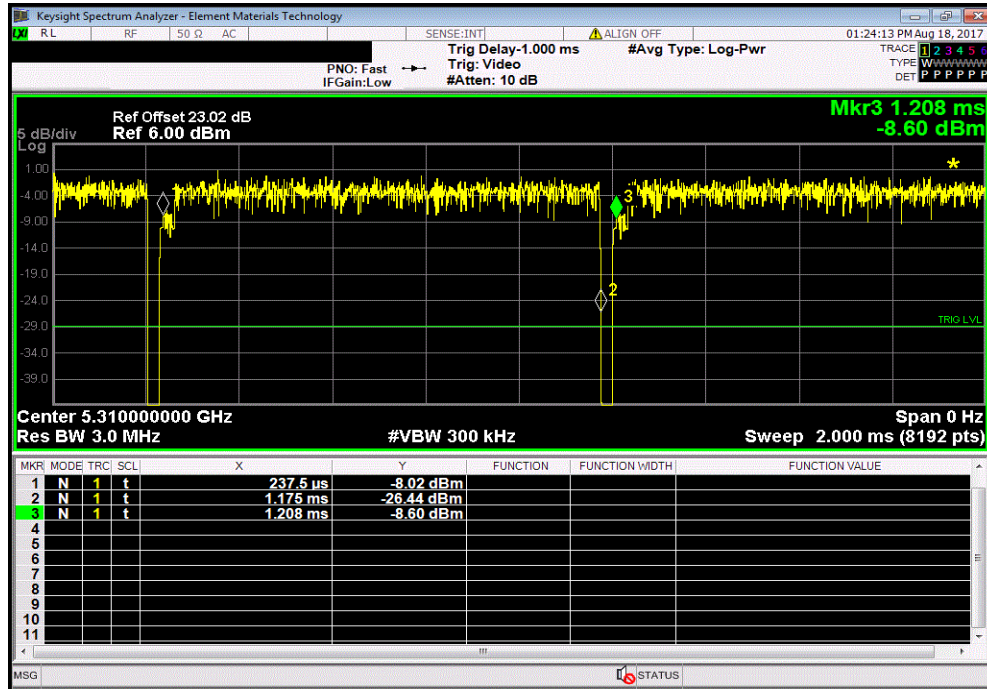


DUTY CYCLE

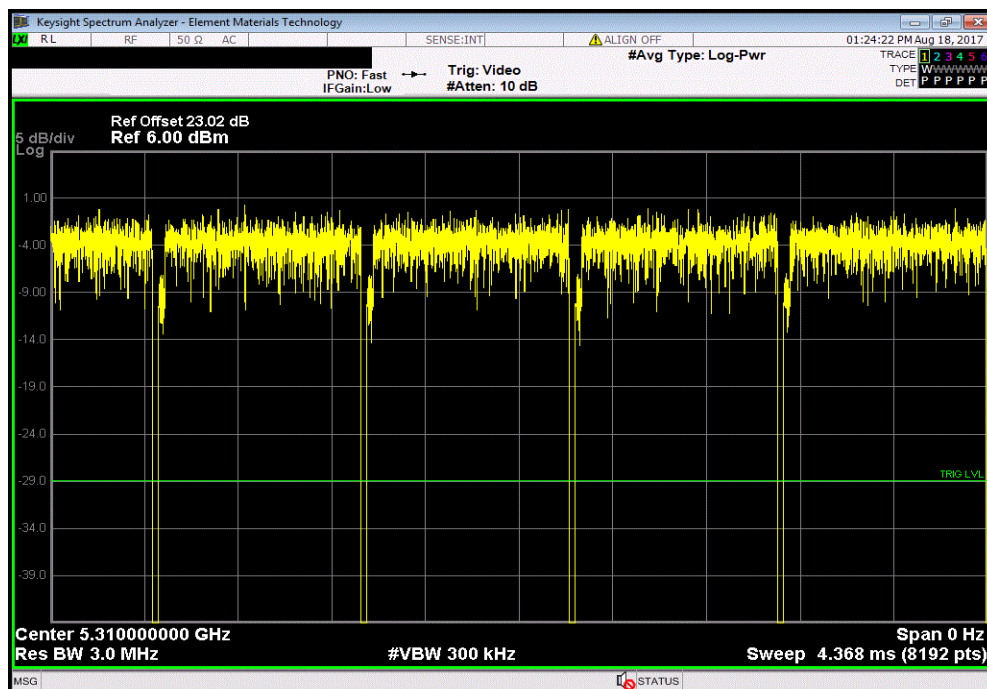


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5250 - 5350 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 60/64 - 5310 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
937.7 us	970.6 us	1	96.6	N/A	N/A	



Chain A, 5250 - 5350 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 60/64 - 5310 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A	N/A	

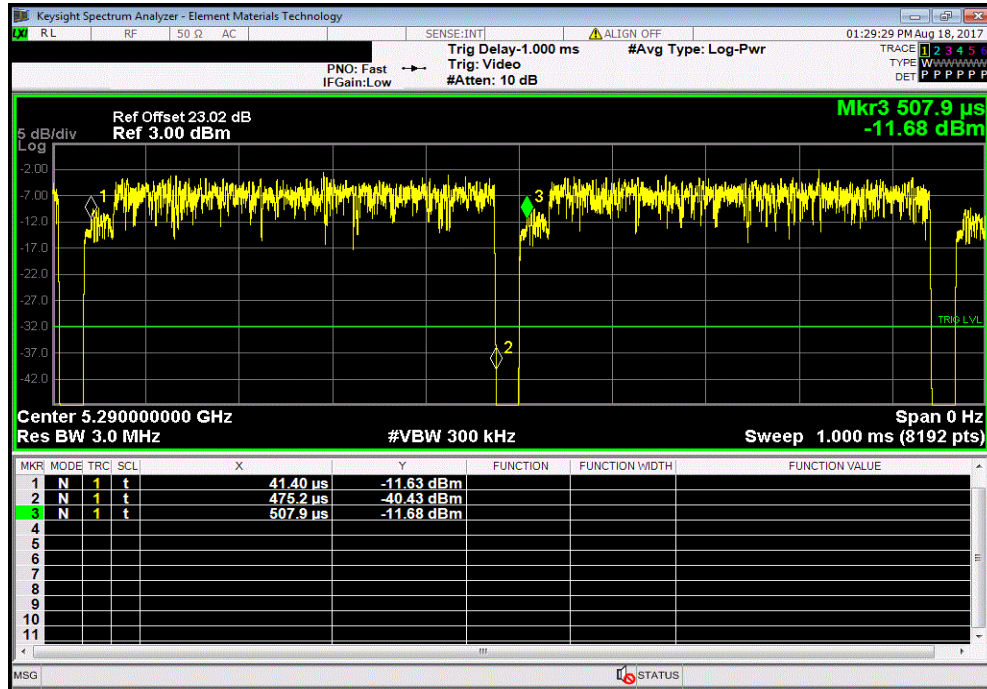


DUTY CYCLE

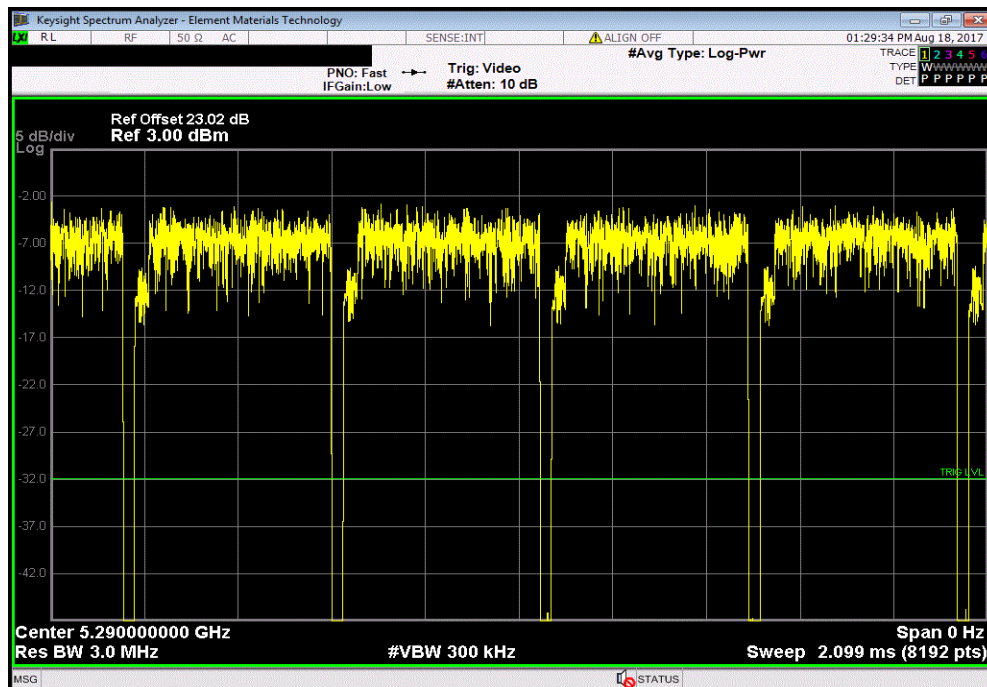


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5250 - 5350 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 52-64 - 5290 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
433.8 μ s	466.5 μ s	1	93	N/A	N/A	



Chain A, 5250 - 5350 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 52-64 - 5290 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

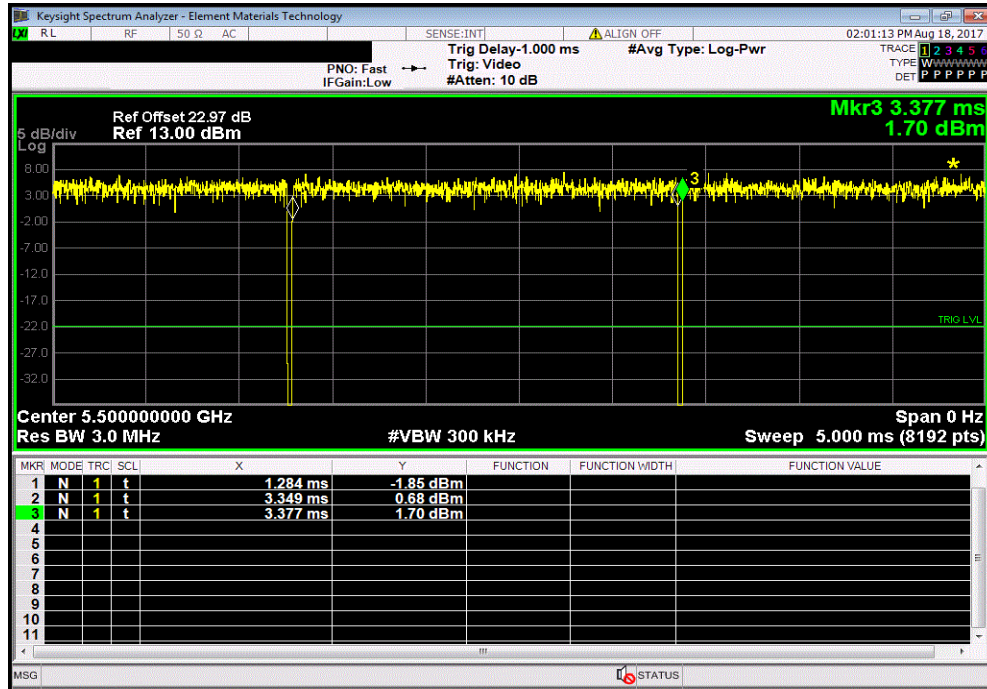


DUTY CYCLE

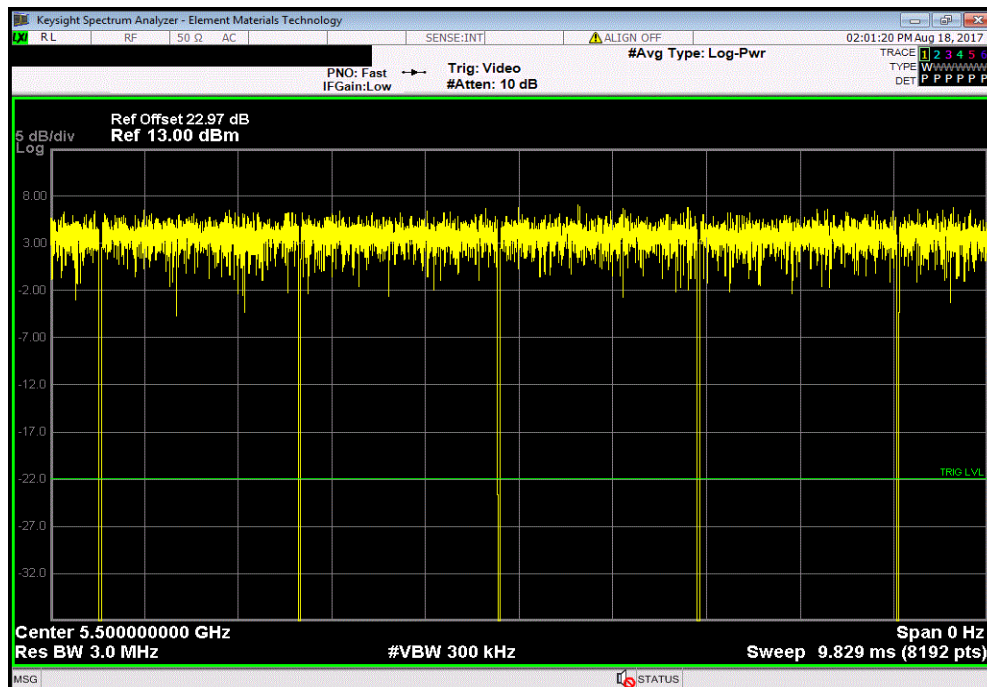


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 100 - 5500 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
2.065 ms	2.093 ms	1	98.7	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 100 - 5500 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

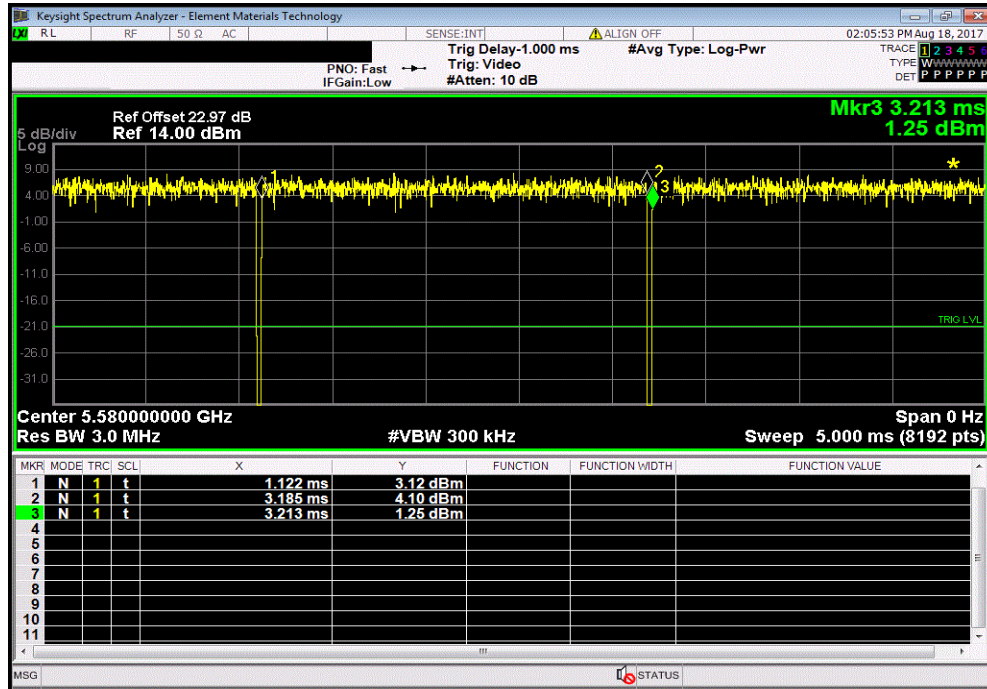


DUTY CYCLE

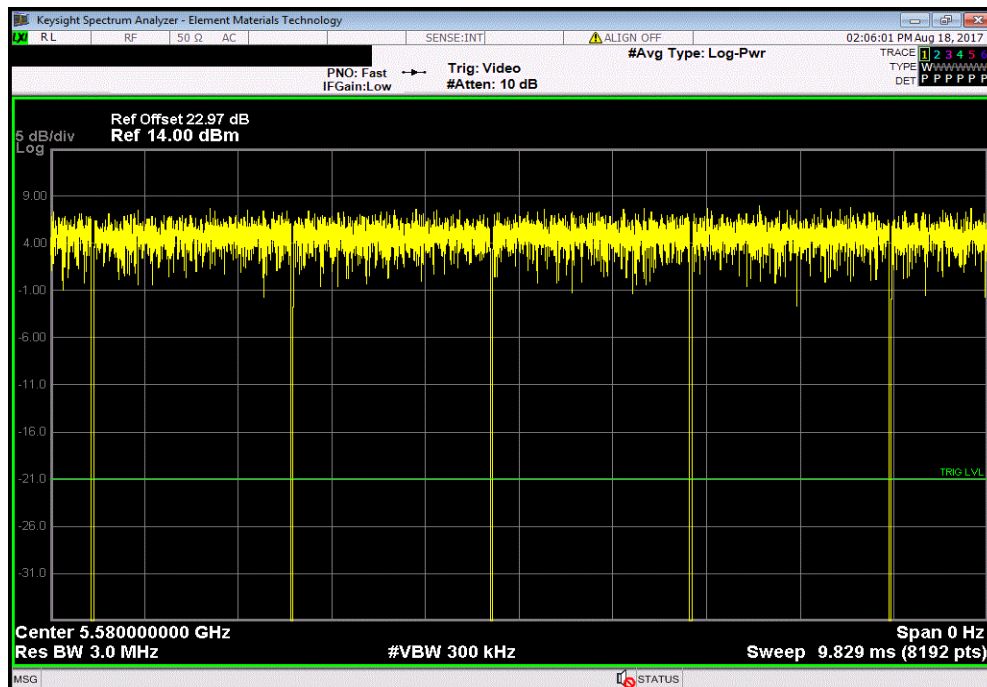


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Mid Channel, Ch 116 - 5580 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
2.063 ms	2.091 ms	1	98.7	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Mid Channel, Ch 116 - 5580 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

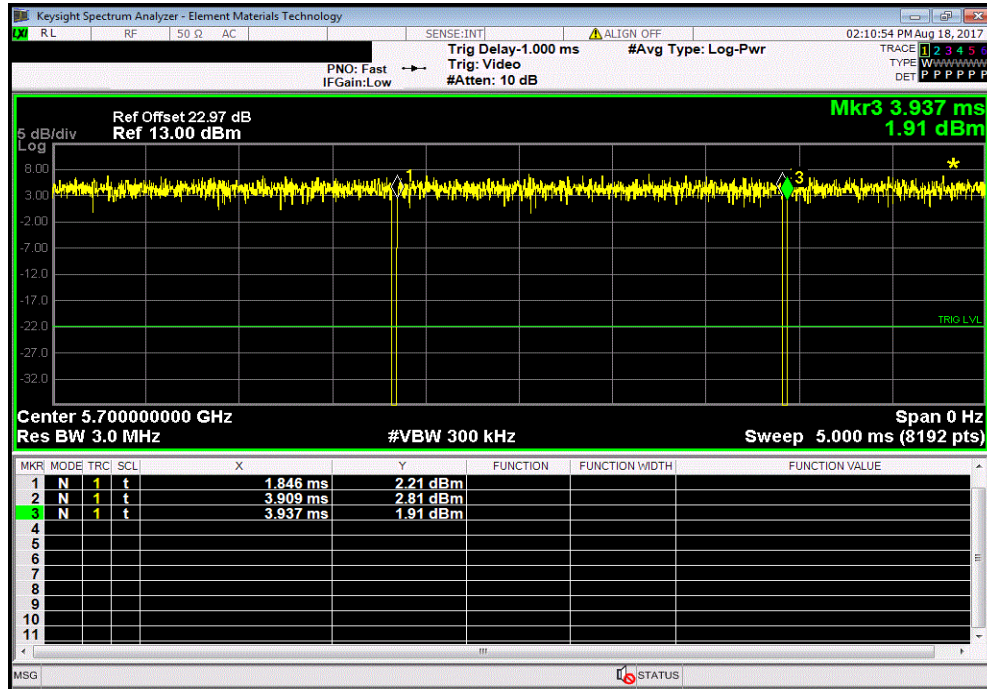


DUTY CYCLE

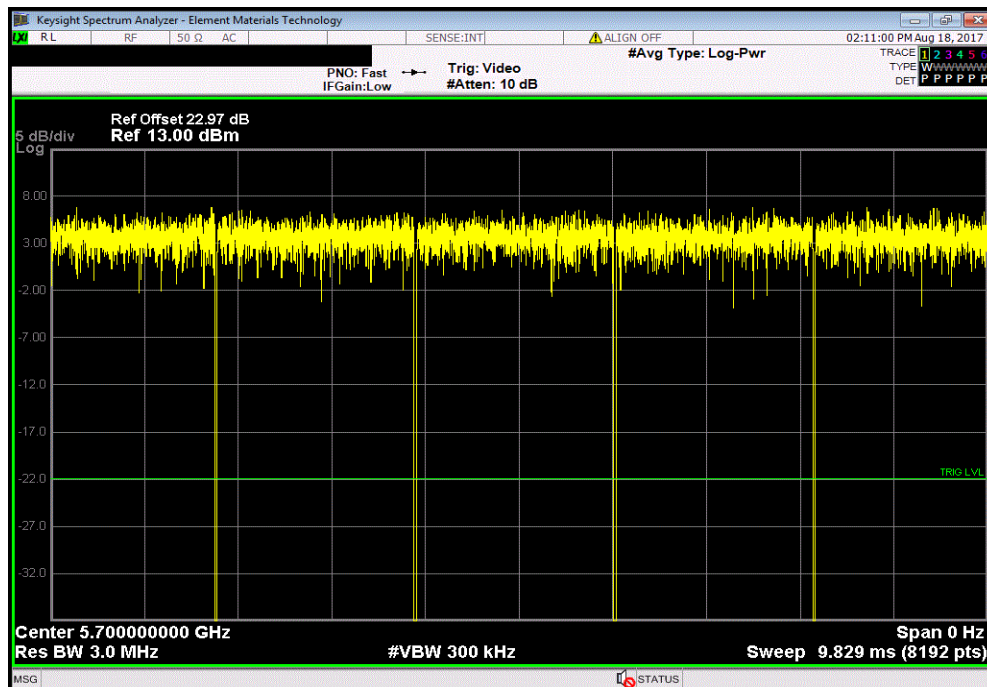


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 140 - 5700 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
2.063 ms	2.091 ms	1	98.7	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 140 - 5700 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A	N/A	

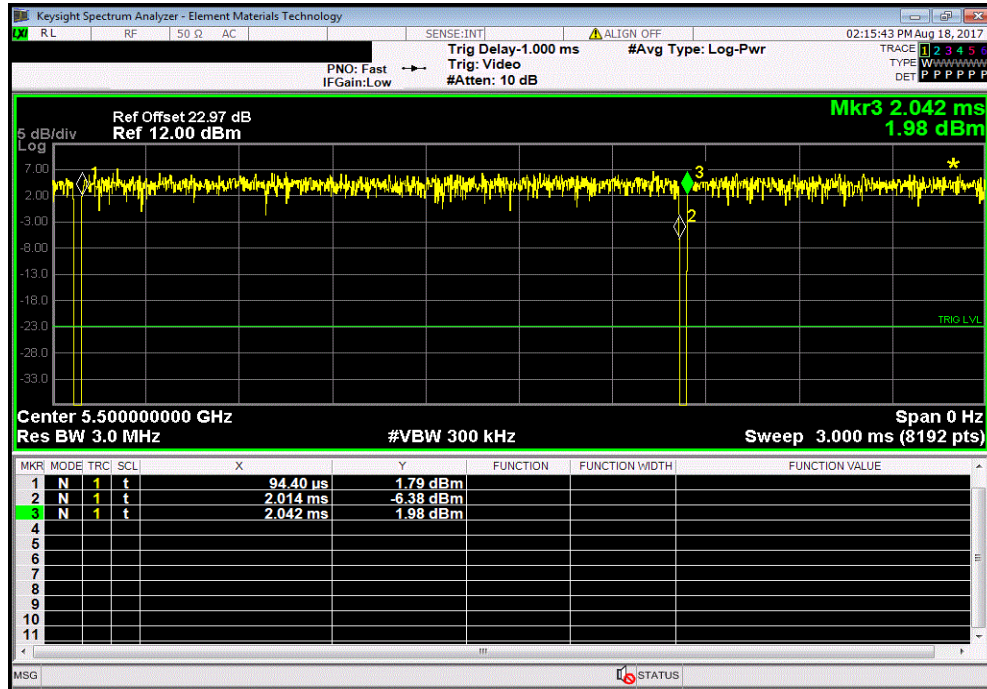


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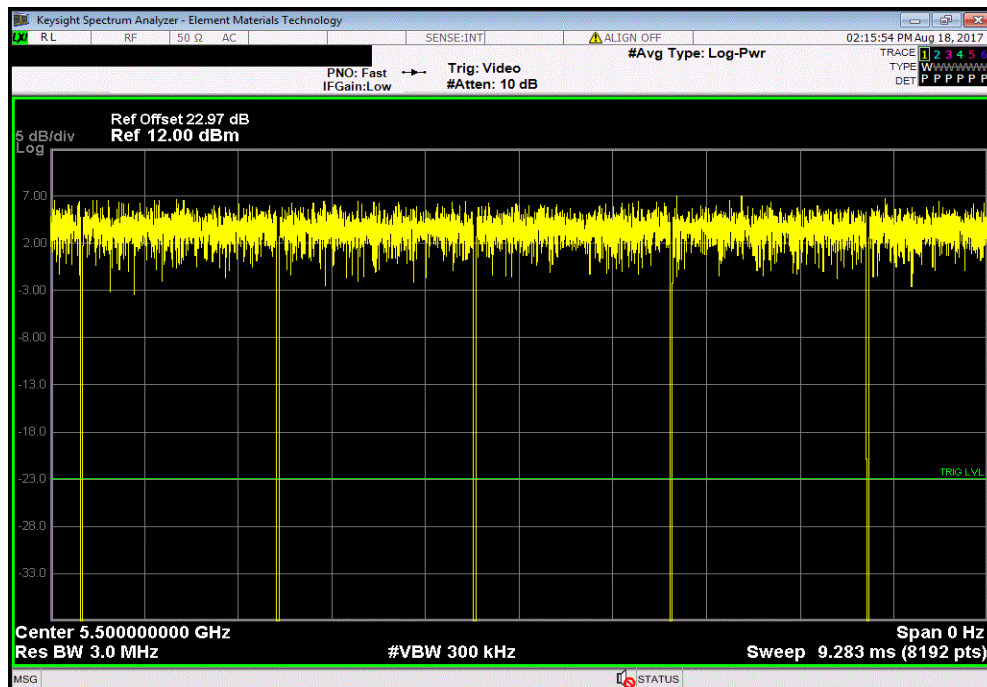


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 100 - 5500 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
1.92 ms	1.947 ms	1	98.6	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 100 - 5500 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

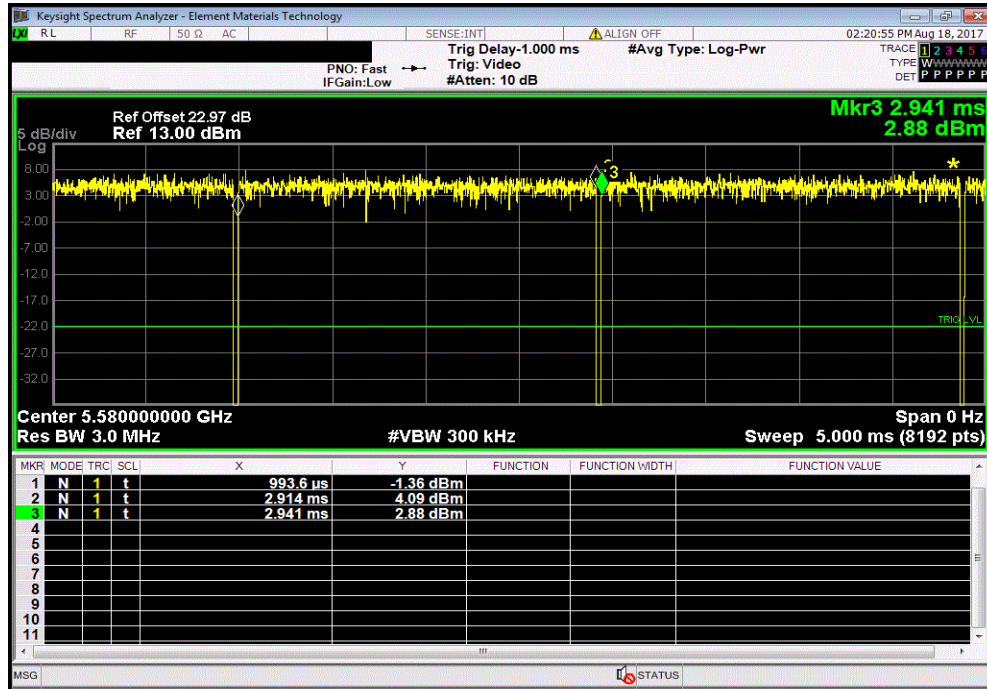


DUTY CYCLE

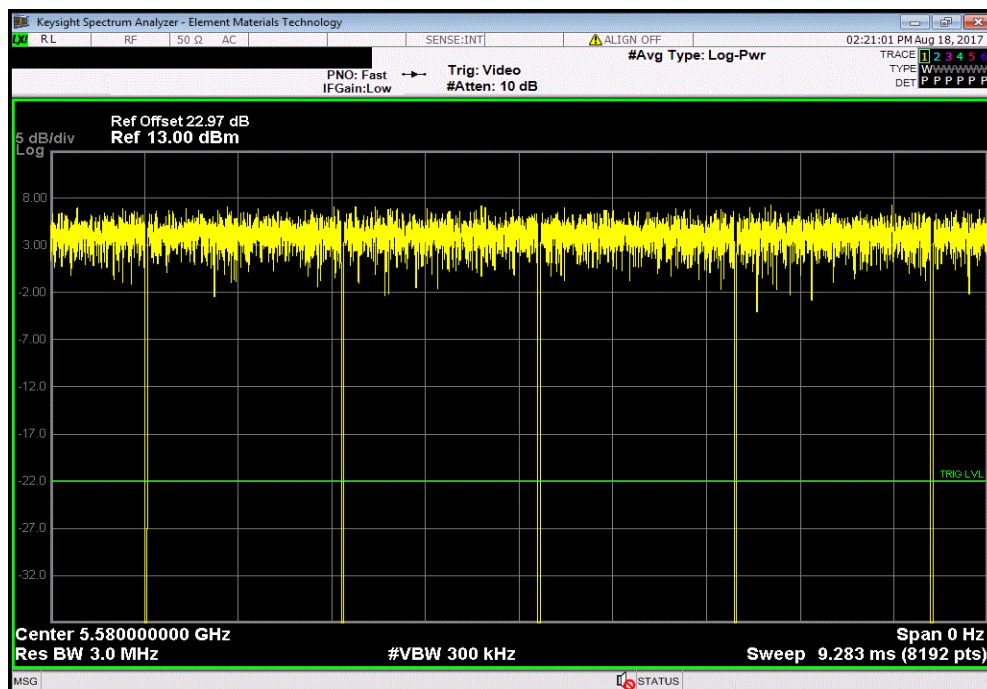


TMTx 2017.07.11 XMTx 2017.02.08

Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 116 - 5580 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
1.92 ms	1.947 ms	1	98.6	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 116 - 5580 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

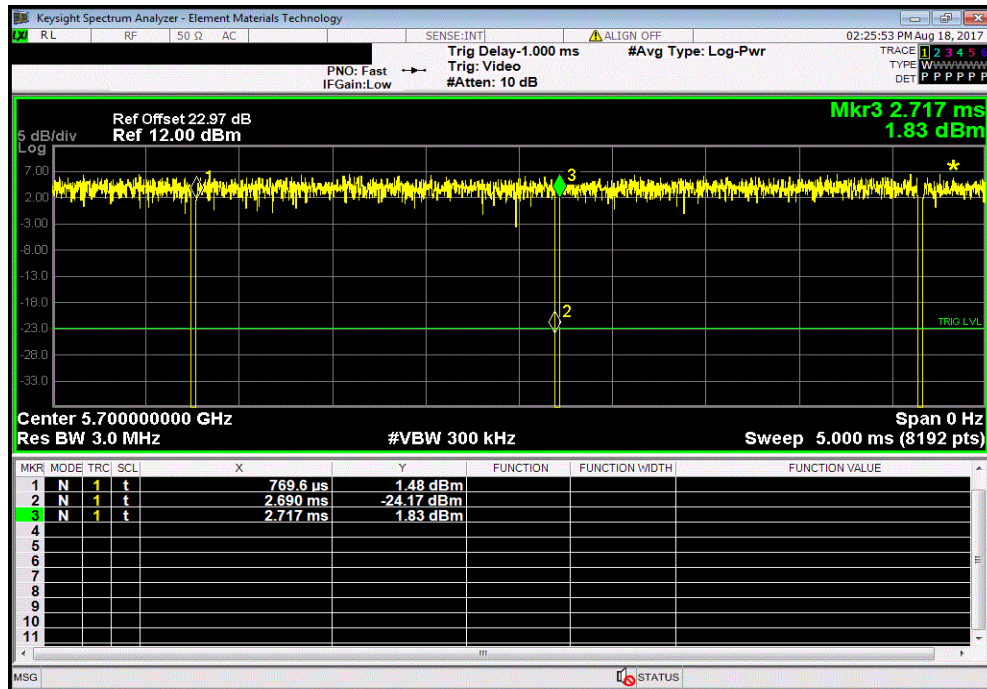


DUTY CYCLE

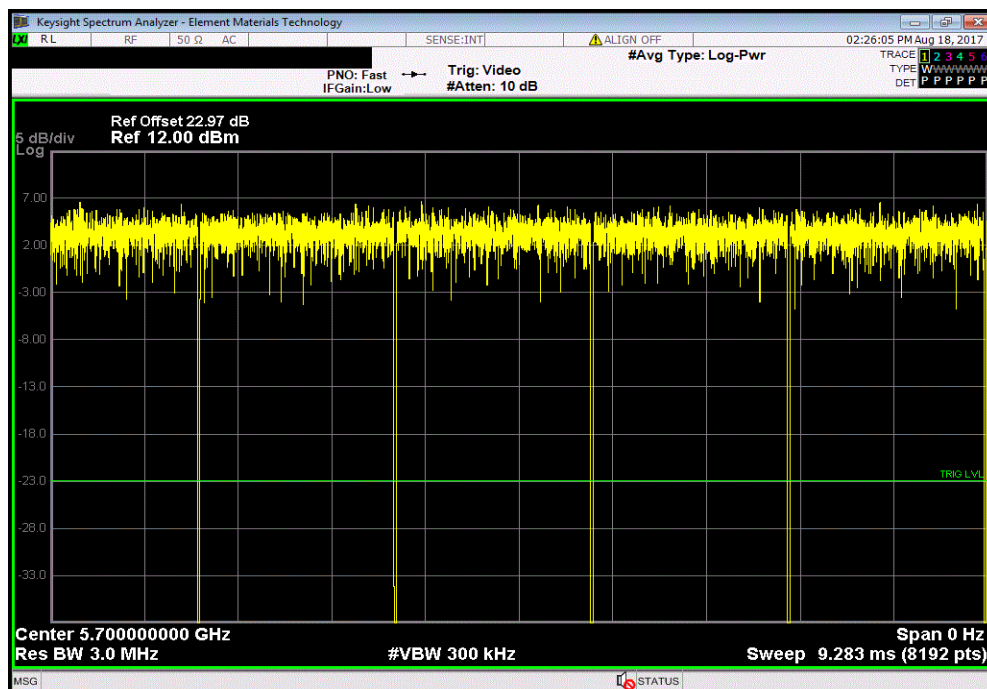


TMTx 2017.07.11 XMM 2017.02.08

Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 140 - 5700 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
1.92 ms	1.947 ms	1	98.6	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 140 - 5700 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

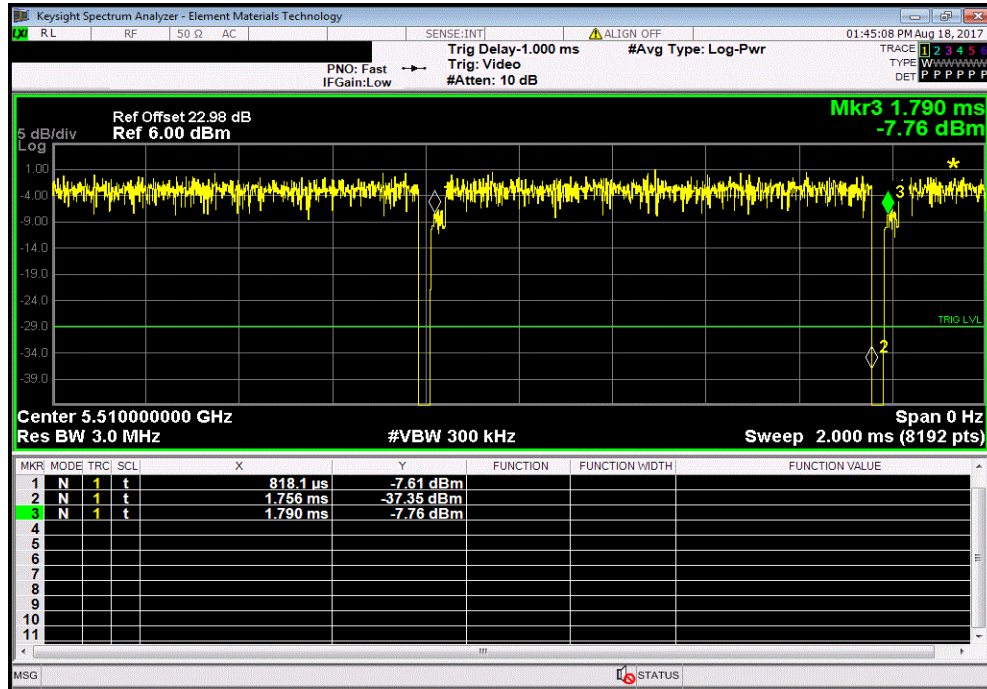


DUTY CYCLE

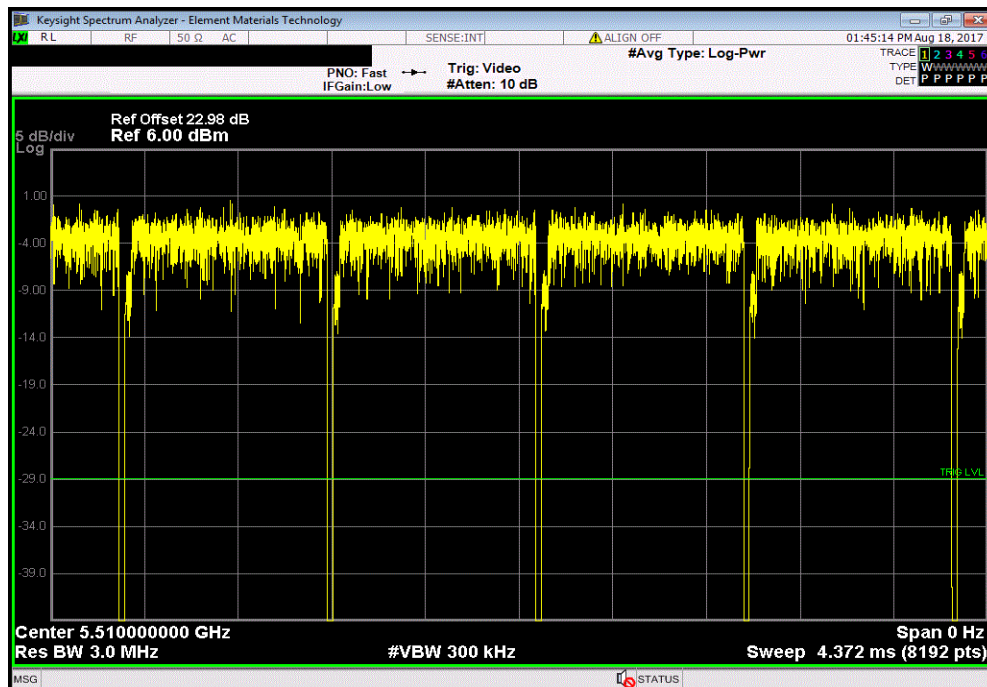


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 100/104 - 5510 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
937.8 μ s	971.6 μ s	1	96.5	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 100/104 - 5510 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

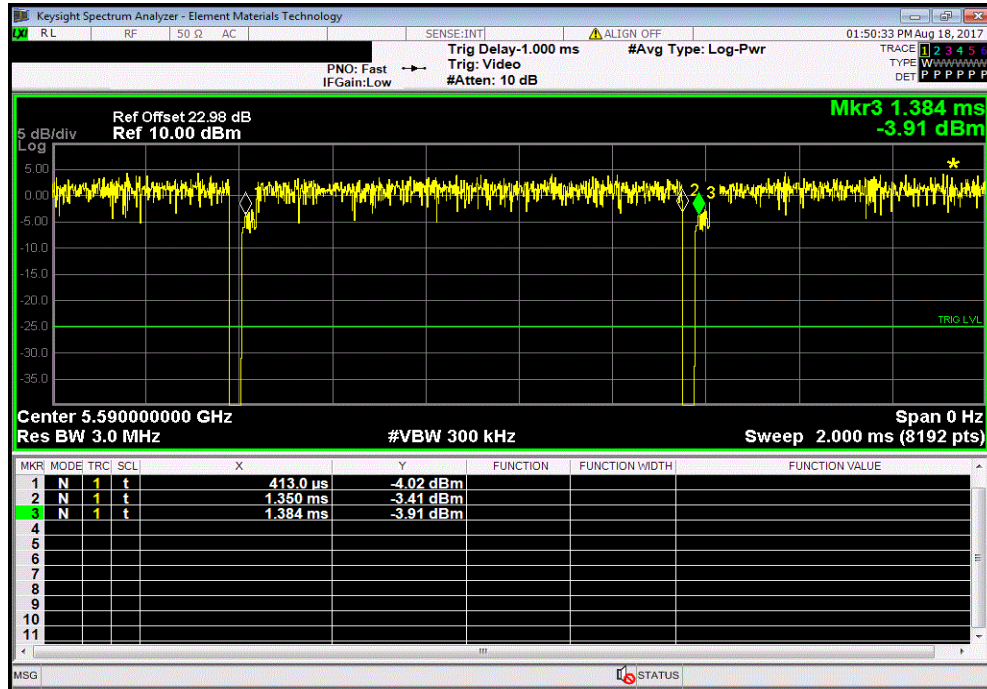


DUTY CYCLE

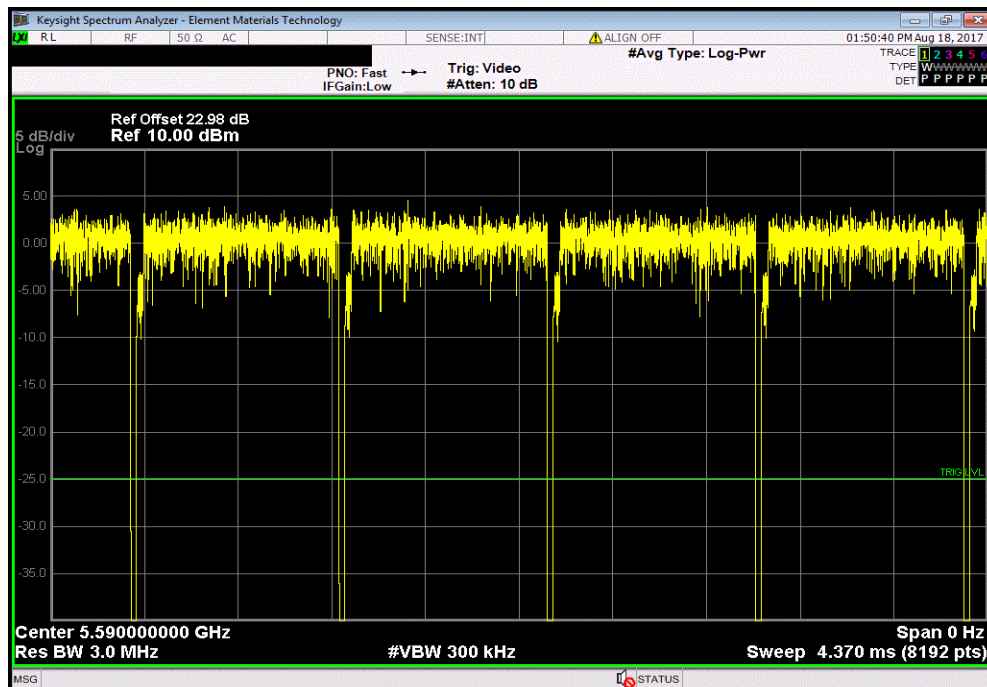


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 40 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 116/120 - 5590 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
937 us	971 us	1	96.5	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 40 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 116/120 - 5590 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

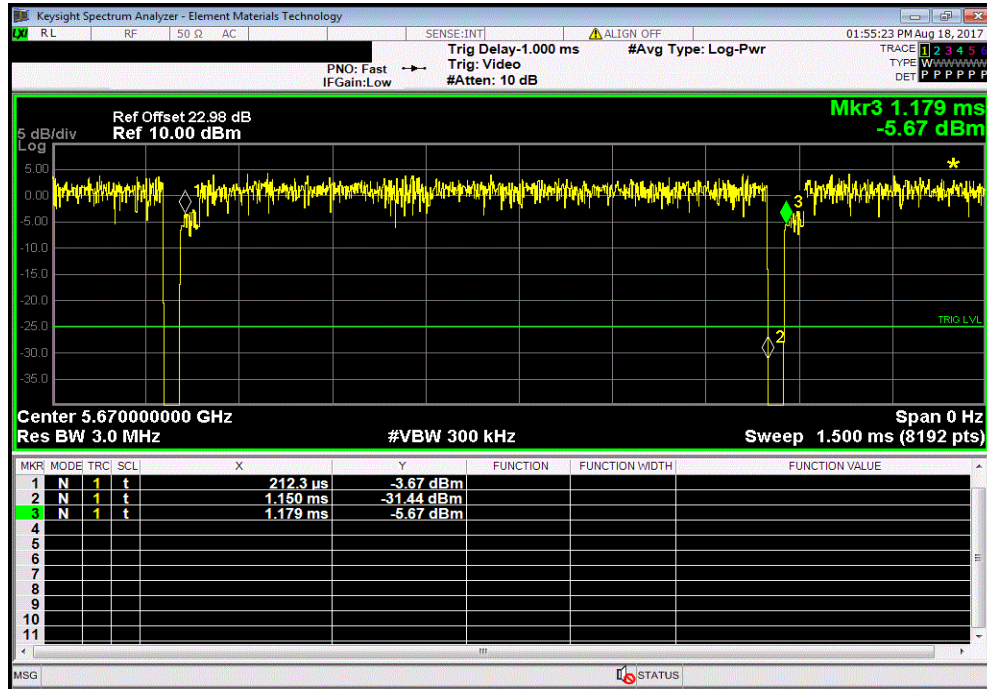


DUTY CYCLE

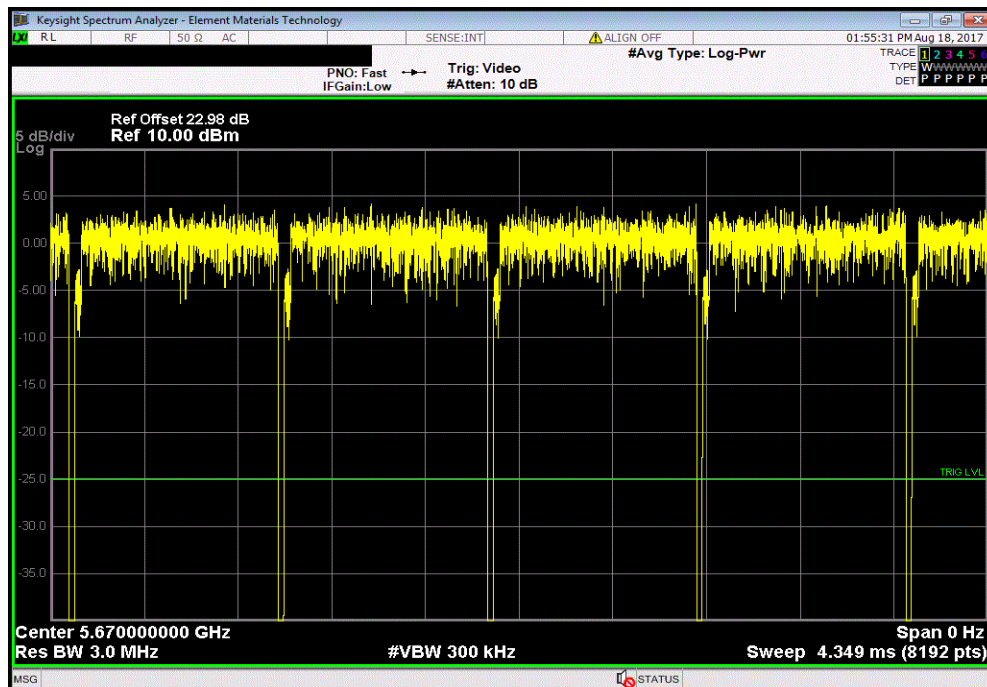


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 132/136 - 5670 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
937.8 us	966.4 us	1	97	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 132/136 - 5670 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	6	N/A	N/A	N/A	

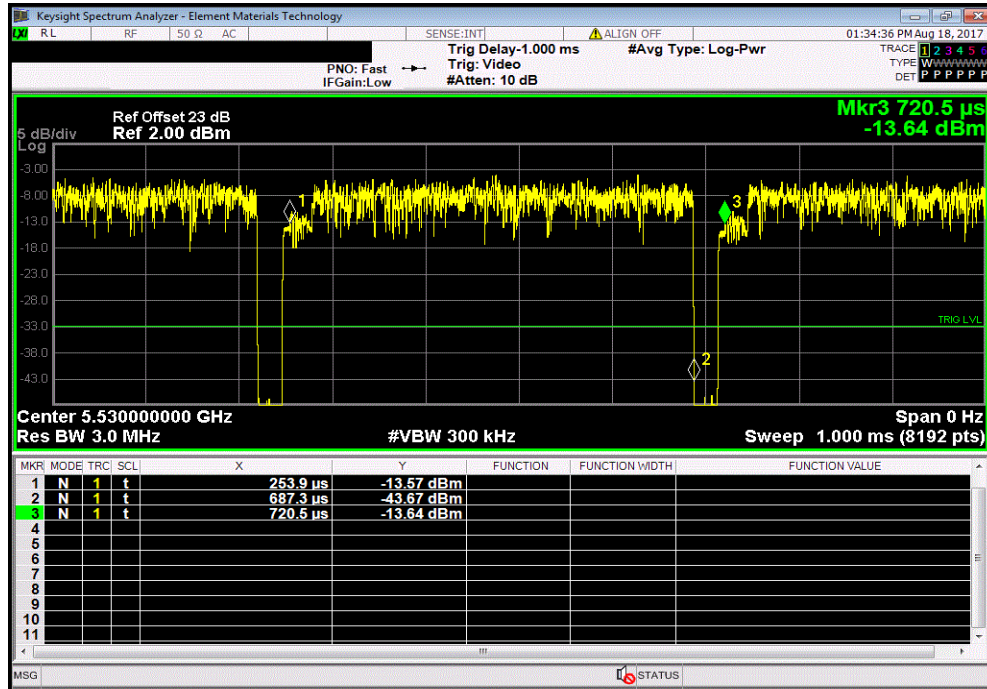


DUTY CYCLE

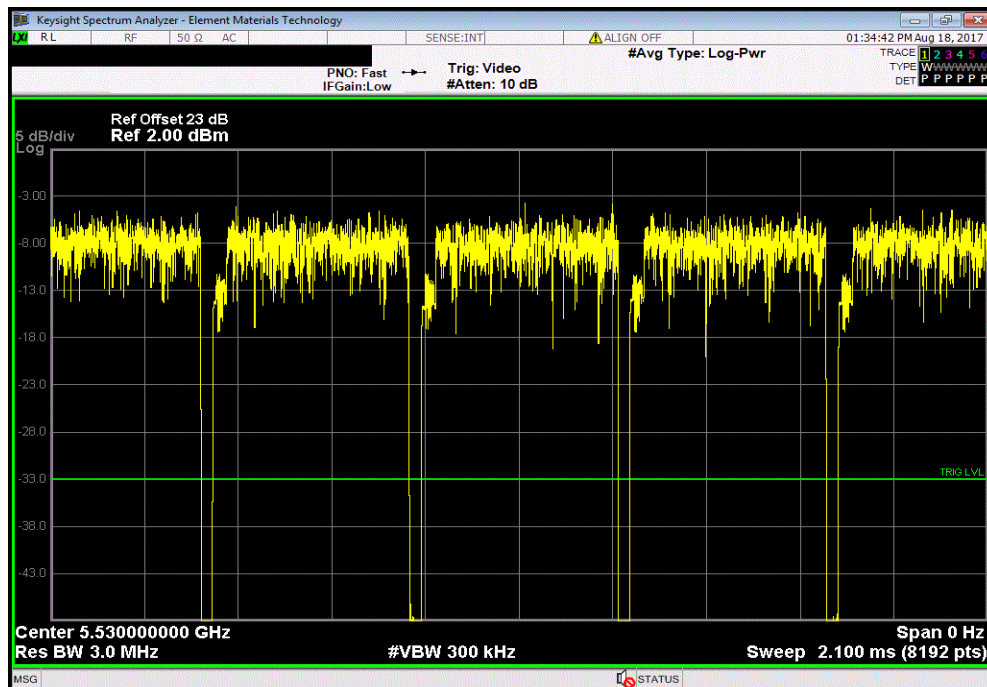


TMTx 2017.07.11 XMM 2017.02.08

Chain A, 5470 - 5725 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 100-112 - 5530 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
433.4 us	466.6 us	1	92.9	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 100-112 - 5530 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A	N/A	

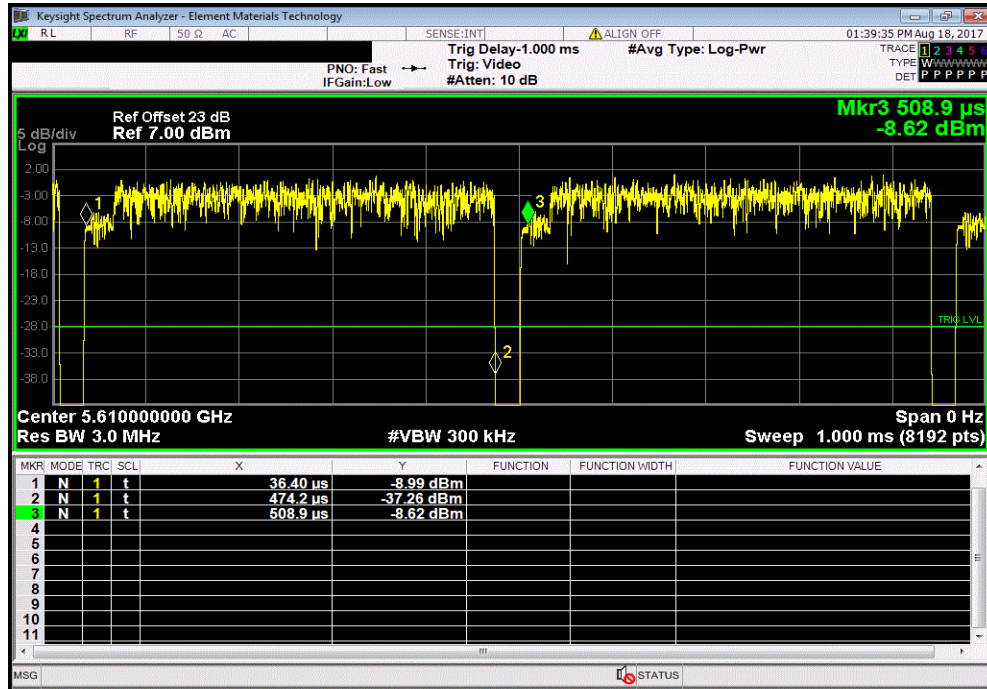


DUTY CYCLE

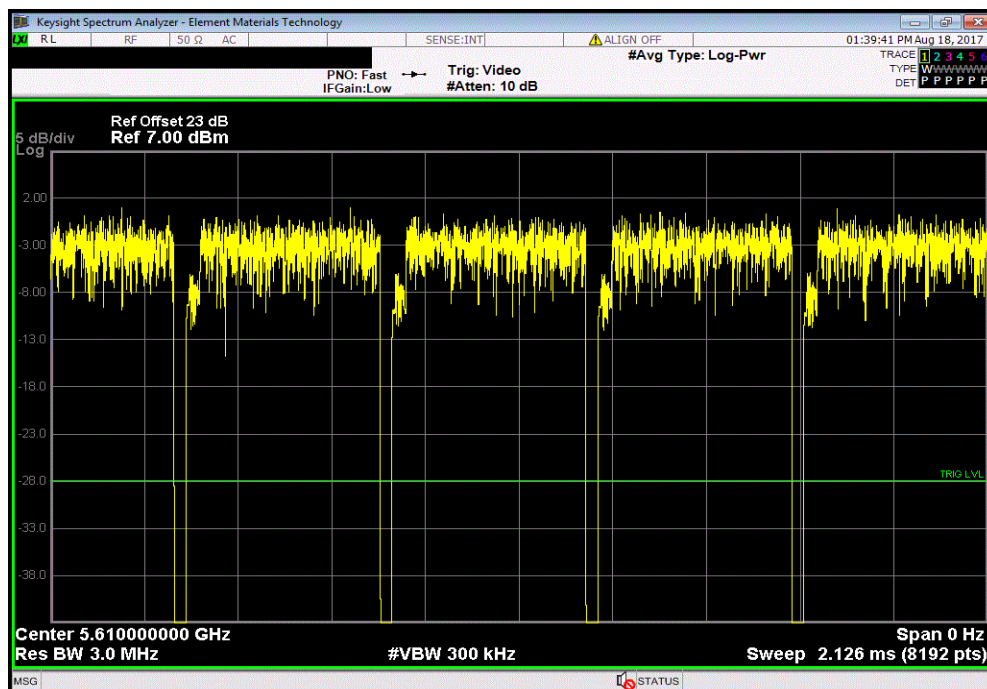


TMTx 2017.07.11 XMI 2017.02.08

Chain A, 5470 - 5725 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 116-128 - 5610 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
437.8 μ s	472.5 μ s	1	92.7	N/A	N/A	



Chain A, 5470 - 5725 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 116-128 - 5610 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Results	
N/A	N/A	5	N/A	N/A	N/A	



MAXIMUM CONDUCTED OUTPUT POWER



XMIT 2017.02.08

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 EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	Fairview Microwave	SA4018-20	TYE	10/24/2016	10/24/2017
Block - DC	Fairview Microwave	SD3379	AMT	10/24/2016	10/24/2017
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	3/14/2017	3/14/2018

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

Prior to measuring maximum transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The maximum conducted output power was measured using ANSI C63.10, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

The spectrum analyzer settings were set per the guidance as well as the following specifics:

-RMS Detector

-Trace average 100 traces in power averaging mode.

-Power was integrated across "B", by using the channel power function of the analyzer.

A duty cycle correction factor was added to the measurement using the results of the formula of $10 \cdot \log(1/D)$ where D is the duty cycle.

MAXIMUM CONDUCTED OUTPUT POWER



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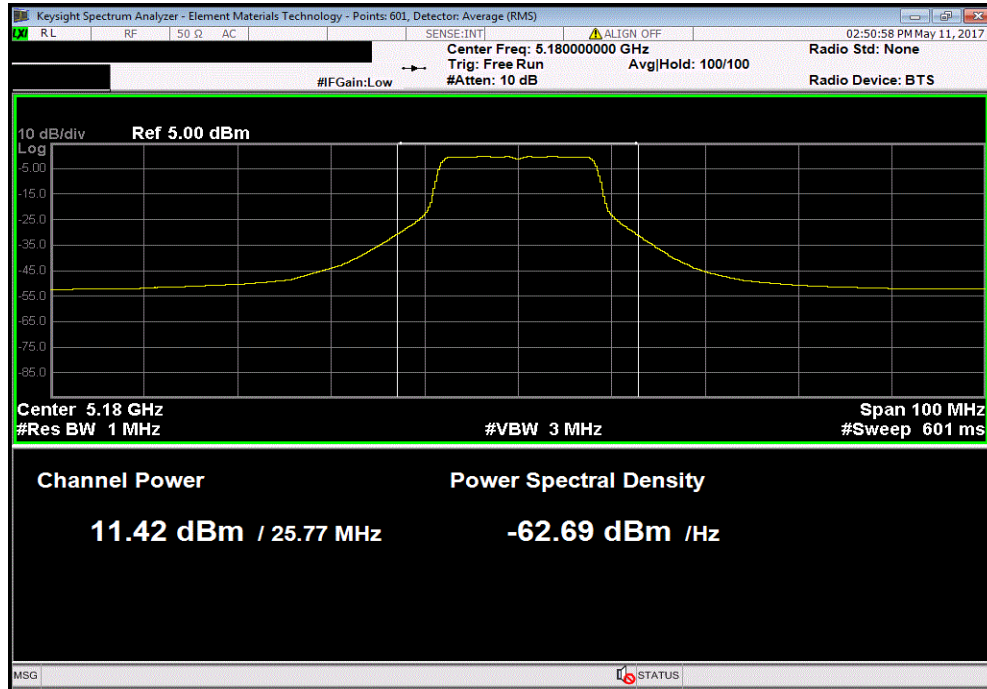
EUT: Dual Band Wireless-AC 3160 Module		Work Order: APPR0043				
Serial Number:	None	Date: 05/11/17				
Customer:	American Portwell Technology Inc.	Temperature: 23.5 °C				
Attendees:	None	Humidity: 46.1% RH				
Project:	None	Barometric Pres.: 1015 mbar				
Tested by:	Jonathan Kiefer	Power:	110VAC/60Hz			
TEST SPECIFICATIONS		Test Method				
FCC 15.407:2017		ANSI C63.10:2013				
COMMENTS						
See Power Table for output power settings used. Measurements were made on the same data rates that were identified in the original FCC grant test report as worst case for each radio type and bandwidth.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	1	Signature 				
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
Chain A						
5150 - 5250 MHz Band						
20 MHz BW						
802.11(a) 6 Mbps						
Low Channel, Ch 36 - 5180 MHz		11.423	0.1	11.5	24	Pass
High Channel, Ch 48 - 5240 MHz		12.656	0.1	12.7	24	Pass
802.11(n) MCS0						
Low Channel, Ch 36 - 5180 MHz		11.212	0.1	11.3	24	Pass
High Channel, Ch 48 - 5240 MHz		12.92	0.1	13	24	Pass
40 MHz BW						
802.11(n) MCS0						
Low Channel, Ch 36/40 - 5190 MHz		8.052	0.1	8.2	24	Pass
High Channel, Ch 44/48 - 5230 MHz		13.552	0.2	13.7	24	Pass
80 MHz BW						
802.11(n) MCS0						
Low Channel, Ch 36-48 - 5210 MHz		7.134	0.3	7.4	24	Pass
5725 - 5785 MHz Band						
20 MHz BW						
802.11(a) 6 Mbps						
Low Channel, Ch 149 - 5745 MHz		13.487	0.1	13.5	30	Pass
Mid Channel, Ch 157 - 5785 MHz		14.3	0.1	14.4	30	Pass
High Channel, Ch 165 - 5825 MHz		14.172	0.1	14.2	30	Pass
802.11(n) MCS0						
Low Channel, Ch 149 - 5745 MHz		14.443	0.1	14.5	30	Pass
Mid Channel, Ch 157 - 5785 MHz		14.569	0.1	14.6	30	Pass
High Channel, Ch 165 - 5825 MHz		14.317	0.1	14.4	30	Pass
40 MHz BW						
802.11(n) MCS0						
Low Channel, Ch 149/153 - 5755 MHz		14.321	0.2	14.5	30	Pass
High Channel, Ch 157/161 - 5795 MHz		14.301	0.2	14.5	30	Pass
80 MHz BW						
802.11(n) MCS0						
Low Channel, Ch 149-161 - 5775 MHz		13.656	0.3	13.9	30	Pass

MAXIMUM CONDUCTED OUTPUT POWER

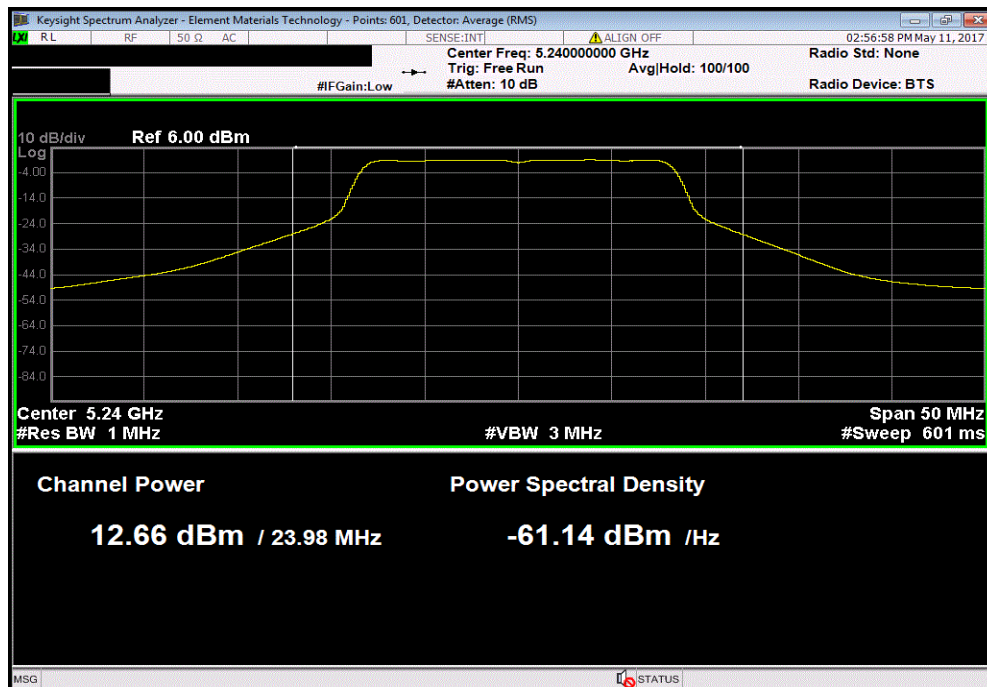


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Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 36 - 5180 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	11.423	0.1	11.5	24	Pass	



Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 48 - 5240 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	12.656	0.1	12.7	24	Pass	

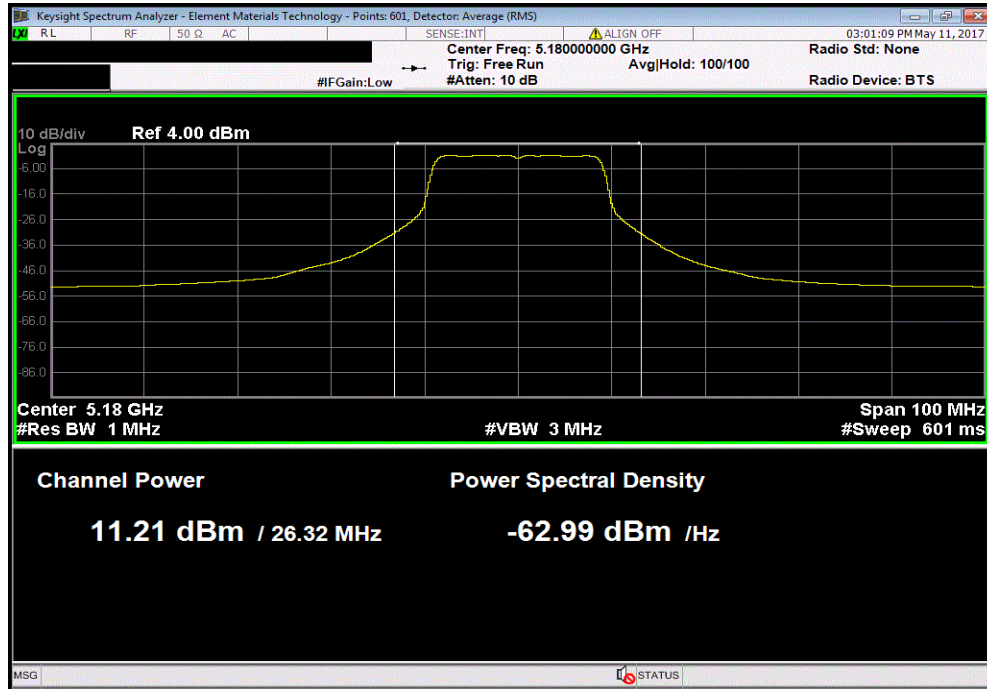


MAXIMUM CONDUCTED OUTPUT POWER

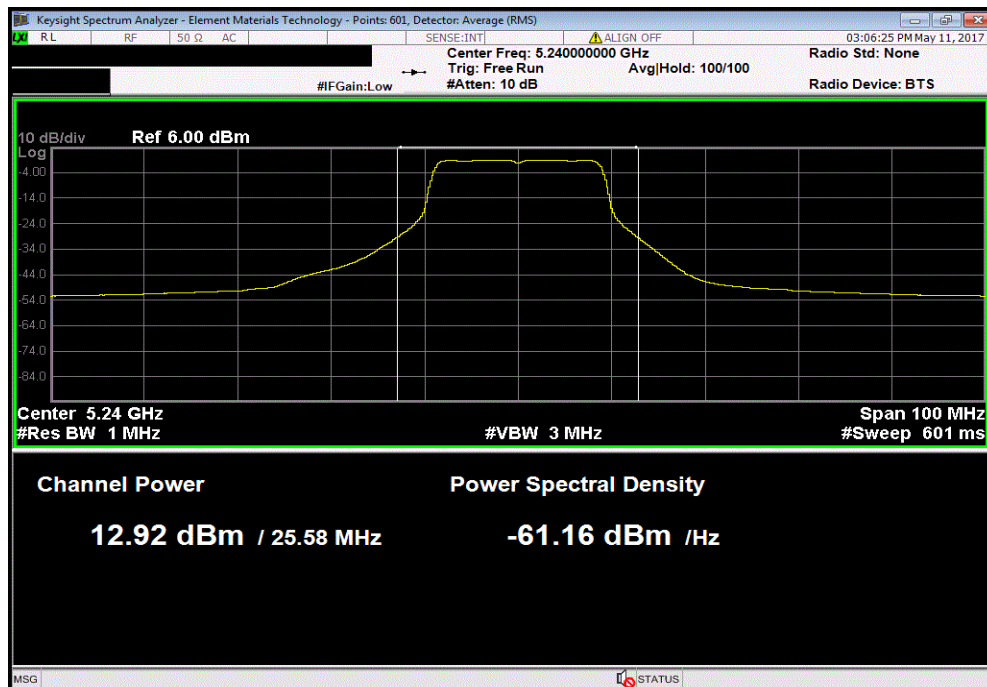


TMTx 2017.01.27 XMI 2017.02.08

Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36 - 5180 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	11.212	0.1	11.3	24	Pass	



Chain A, 5150 - 5250 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 48 - 5240 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	12.92	0.1	13	24	Pass	

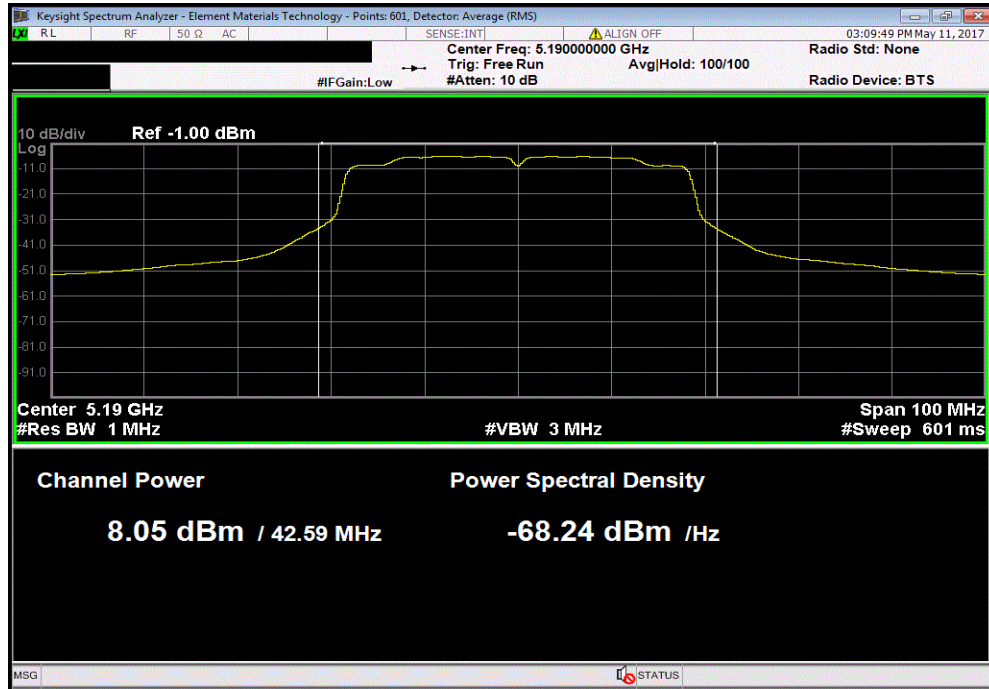


MAXIMUM CONDUCTED OUTPUT POWER

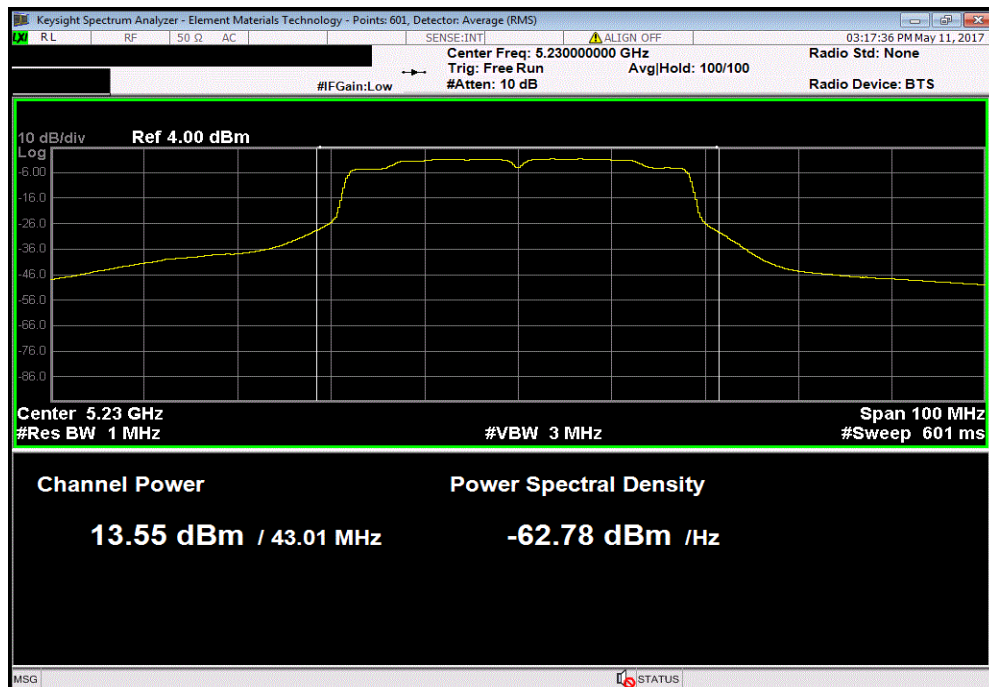


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Chain A, 5150 - 5250 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36/40 - 5190 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	8.052	0.1	8.2	24	Pass	



Chain A, 5150 - 5250 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 44/48 - 5230 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	13.552	0.2	13.7	24	Pass	

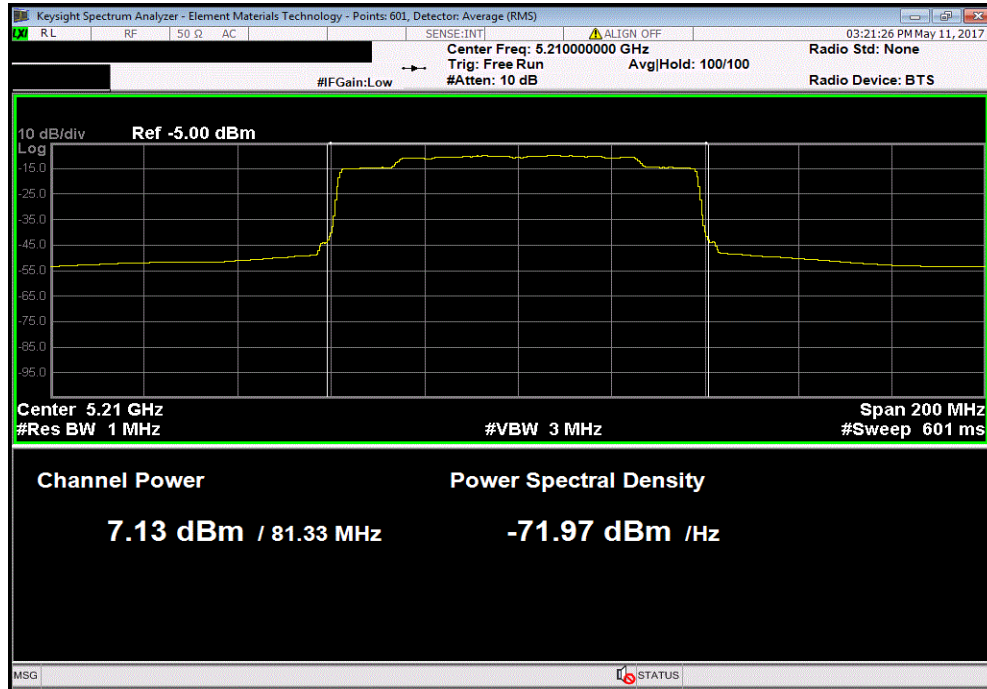


MAXIMUM CONDUCTED OUTPUT POWER

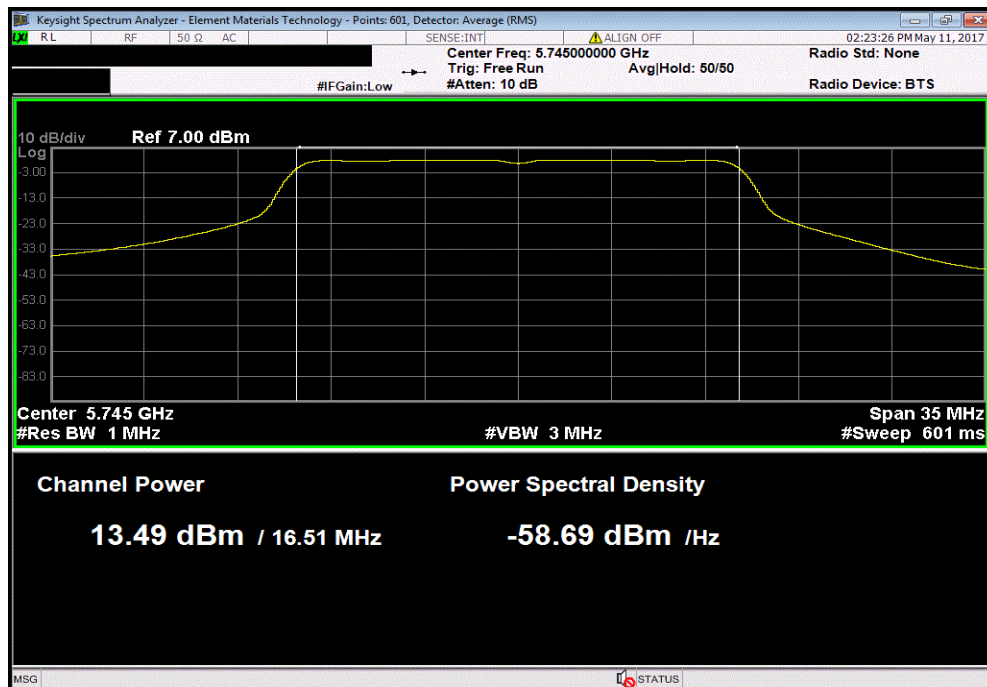


TMTx 2017.01.27 XMI 2017.02.08

Chain A, 5150 - 5250 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 36-48 - 5210 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	7.134	0.3	7.4	24	Pass	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Low Channel, Ch 149 - 5745 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	13.487	0.1	13.5	30	Pass	

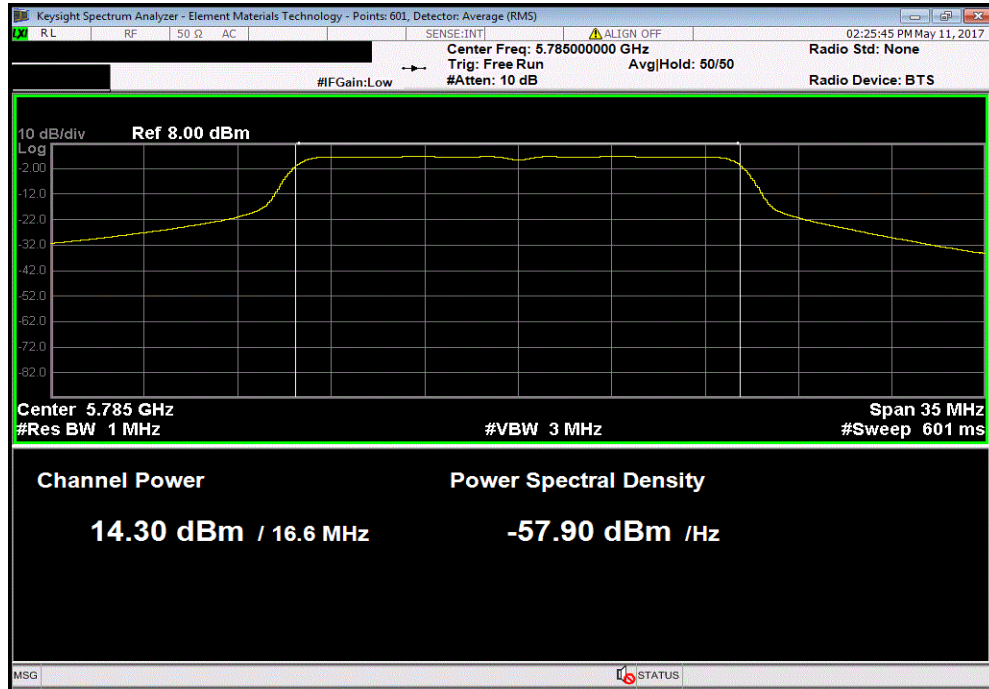


MAXIMUM CONDUCTED OUTPUT POWER

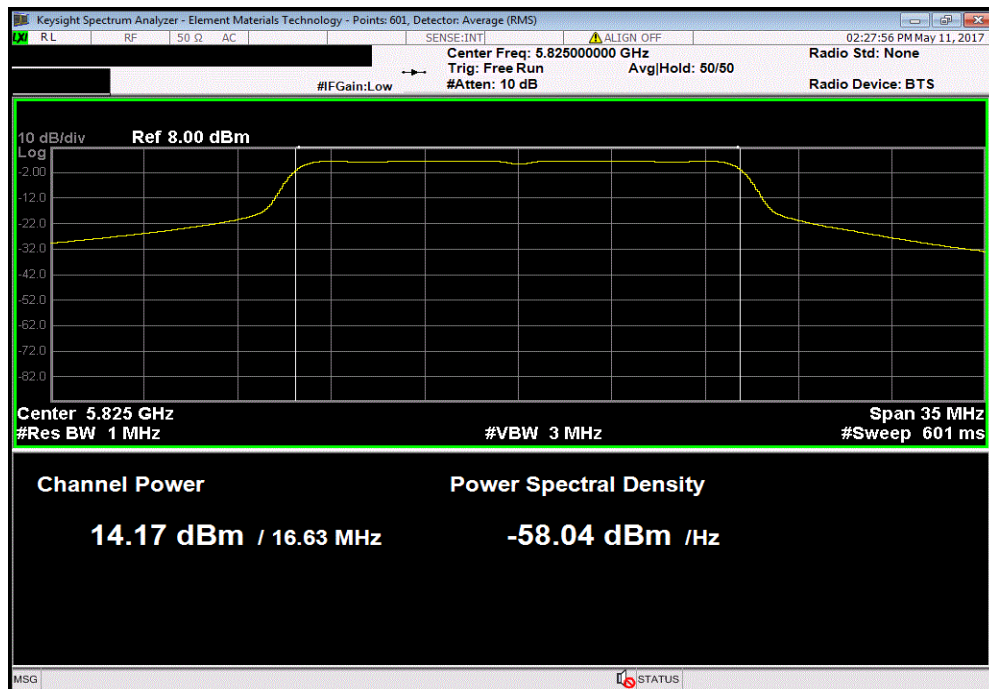


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, Mid Channel, Ch 157 - 5785 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	14.3	0.1	14.4	30	Pass	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(a) 6 Mbps, High Channel, Ch 165 - 5825 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	14.172	0.1	14.2	30	Pass	

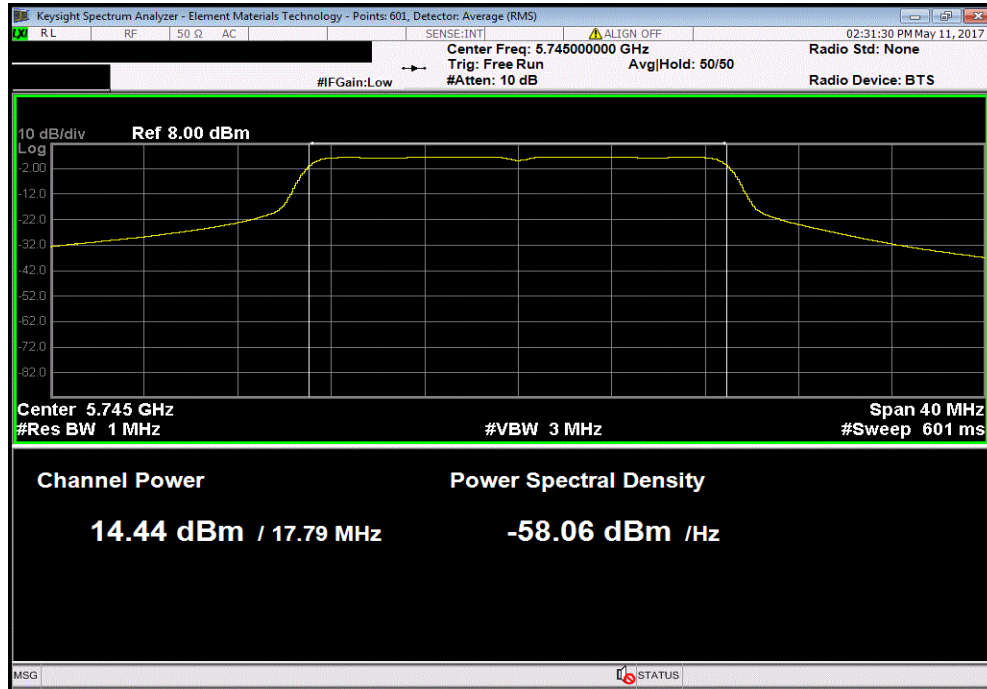


MAXIMUM CONDUCTED OUTPUT POWER

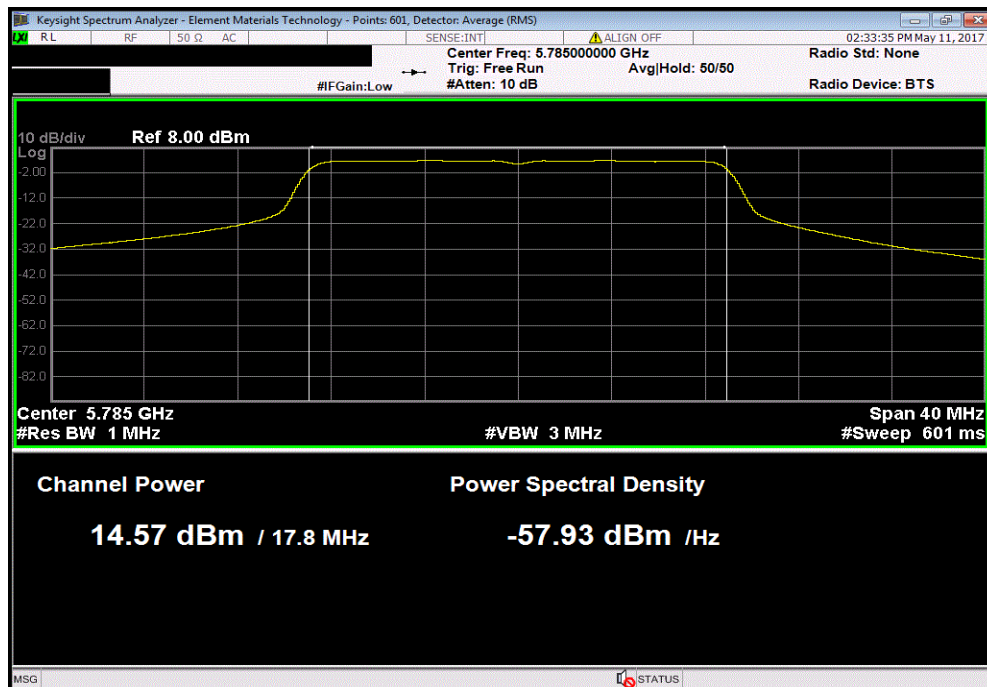


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Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149 - 5745 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	14.443	0.1	14.5	30	Pass	



Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, Mid Channel, Ch 157 - 5785 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	14.569	0.1	14.6	30	Pass	

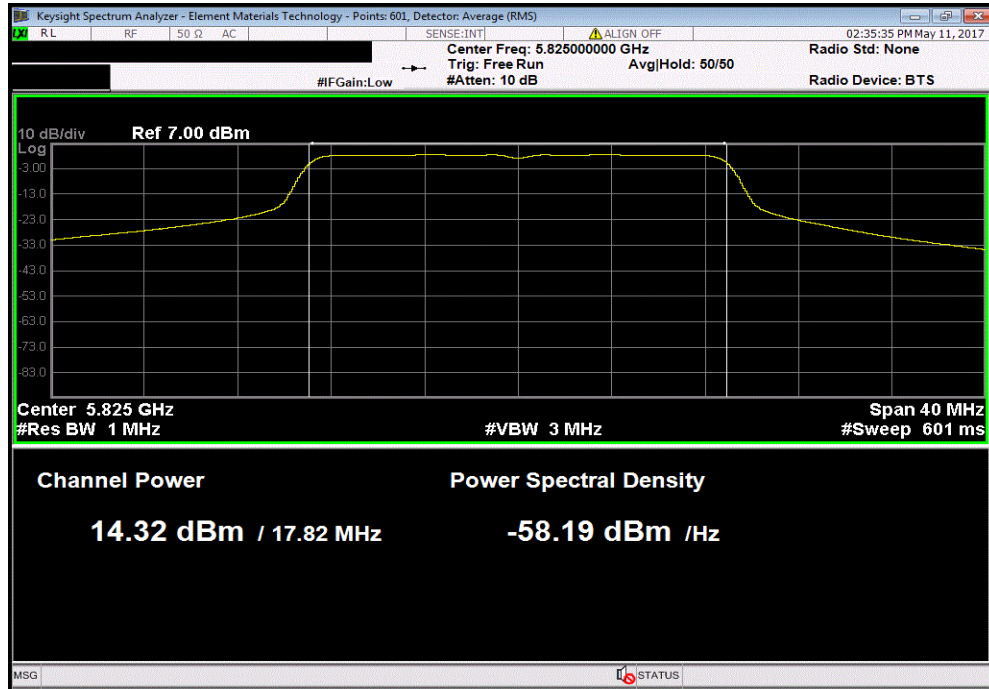


MAXIMUM CONDUCTED OUTPUT POWER

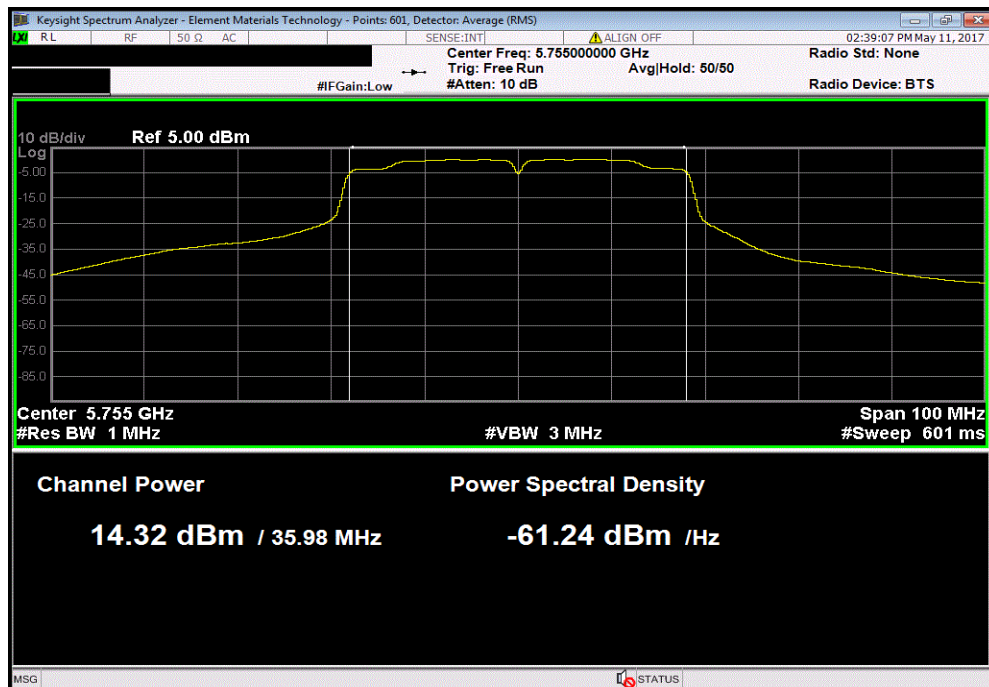


TMTx 2017.01.27 XMI 2017.02.08

Chain A, 5725 - 5785 MHz Band, 20 MHz BW, 802.11(n) MCS0, High Channel, Ch 165 - 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
14.317	0.1	14.4	30	Pass		



Chain A, 5725 - 5785 MHz Band, 40 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149/153 - 5755 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
14.321	0.2	14.5	30	Pass		

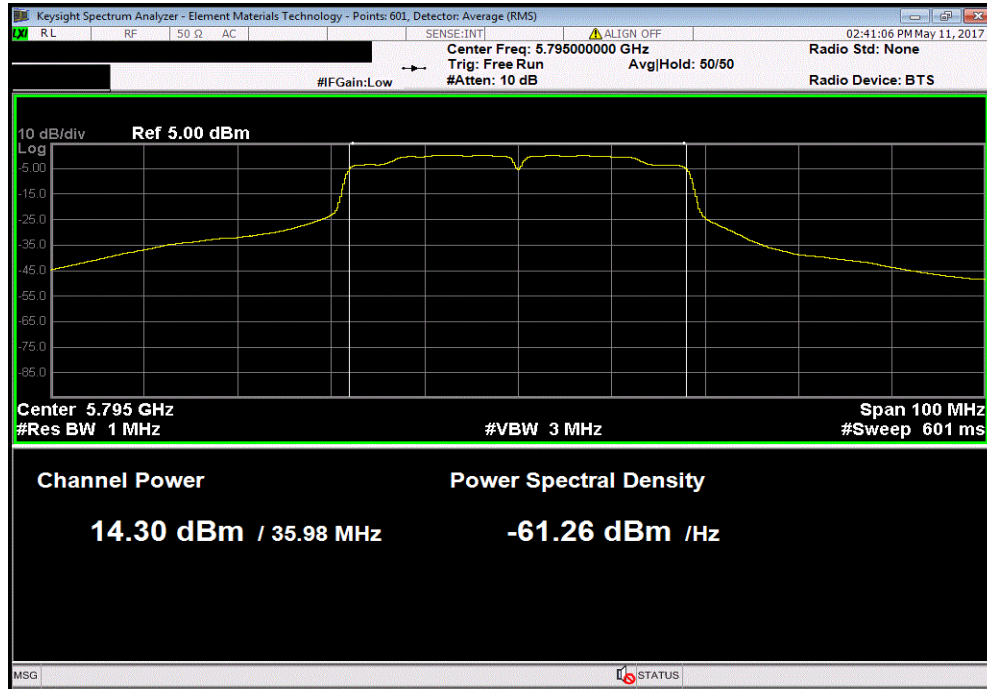


MAXIMUM CONDUCTED OUTPUT POWER



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Chain A, 5725 - 5785 MHz Band, 40 MHz BW, 802.11(n) MCS0, High Channel, Ch 157/161 - 5795 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	14.301	0.2	14.5	30	Pass	



Chain A, 5725 - 5785 MHz Band, 80 MHz BW, 802.11(n) MCS0, Low Channel, Ch 149-161 - 5775 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	13.656	0.3	13.9	30	Pass	

