

DUTY CYCLE



XMT 2020.12.30.0

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 - 4-May-21

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	Fairview Microwave	18B5W-26	RFY	2020-06-03	2021-06-03
Block - DC	Fairview Microwave	SD3379	AMZ	2020-11-04	2021-11-04
Generator - Signal	Agilent	N5183A	TIK	2019-04-30	2022-04-30
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16	2022-04-16
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2020-09-14	2021-09-14

TEST EQUIPMENT - 17-May-21

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Attenuator	Fairview Microwave	18B5W-26	RFY	2020-06-03	2021-06-03
Block - DC	Fairview Microwave	SD3379	AMI	2020-08-05	2021-08-05
Generator - Signal	Keysight	N5171B (EXG)	TEY	2019-12-31	2022-12-31
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2021-03-10	2022-03-10
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNO	2021-05-21	2022-05-21

TEST DESCRIPTION

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.

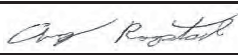
The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

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



XMM 2020.12.30.0

EUT:	Zoll R-Series Data Comm II C2PC			Work Order: LGPD0258				
Serial Number:	LB133400105			Date: 4-May-21, 17-May-21				
Customer:	Logic PD, Inc.			Temperature: 22.5 °C				
Attendees:	Eric Fritz			Humidity: 30.5% RH				
Project:	None			Barometric Pres.: 1025 mbar				
Tested by:	Andrew Rogstad, Dan Haas		Power:	3.7VDC		Job Site: MN08		
TEST SPECIFICATIONS			Test Method					
FCC 15.407:2021			ANSI C63.10:2013					
COMMENTS								
Reference level offset includes measurement cable, attenuators, and DC block. Testing on 17-May-21 used configuration LGPD0258-4 and took place with these environmental parameters: 21.7 °C, 45.9% RH, and 1021 mbar.								
DEVIATIONS FROM TEST STANDARD								
None								
Configuration #	2, 4		Signature 					
			Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result
5150-5250 MHz Band								
Low Channel, Ch 36 - 5180 MHz								
	802.11(a) 6 Mbps		1.42	1.46	1	96.92	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	7	N/A	N/A	N/A
	802.11(a) 36 Mbps		0.24	0.29	1	85.25	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	6	N/A	N/A	N/A
	802.11(a) 54 Mbps		0.17	0.21	1	79.77	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	6	N/A	N/A	N/A
	802.11(n) MCS0		1.32	1.37	1	96.92	N/A	N/A
	802.11(n) MCS0		N/A	N/A	8	N/A	N/A	N/A
	802.11(n) MCS7		0.16	0.20	1	79.86	N/A	N/A
	802.11(n) MCS7		N/A	N/A	7	N/A	N/A	N/A
High Channel, Ch 48 - 5240 MHz								
	802.11(a) 6 Mbps		1.42	1.46	1	96.99	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	7	N/A	N/A	N/A
	802.11(a) 36 Mbps		1.34	1.37	1	97.80	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(a) 54 Mbps		0.26	0.29	1	89.40	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(n) MCS0		0.18	0.21	1	85.70	N/A	N/A
	802.11(n) MCS0		N/A	N/A	5	N/A	N/A	N/A
	802.11(n) MCS7		0.16	0.20	1	79.18	N/A	N/A
	802.11(n) MCS7		N/A	N/A	7	N/A	N/A	N/A
5250-5350 MHz Band								
Low Channel, Ch 52 - 5260 MHz								
	802.11(a) 6 Mbps		1.41	1.46	1	97.05	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	7	N/A	N/A	N/A
	802.11(a) 36 Mbps		0.25	0.29	1	85.46	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	4	N/A	N/A	N/A
	802.11(a) 54 Mbps		0.17	0.21	1	80.31	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	6	N/A	N/A	N/A
	802.11(n) MCS0		1.33	1.37	1	97.07	N/A	N/A
	802.11(n) MCS0		N/A	N/A	8	N/A	N/A	N/A
	802.11(n) MCS7		0.16	0.20	1	79.06	N/A	N/A
	802.11(n) MCS7		N/A	N/A	7	N/A	N/A	N/A
High Channel, Ch 64 - 5320 MHz								
	802.11(a) 6 Mbps		1.34	1.37	1	97.80	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(a) 36 Mbps		0.18	0.21	1	85.70	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(a) 54 Mbps		1.43	1.46	1	98.00	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(n) MCS0		0.26	0.29	1	89.50	N/A	N/A
	802.11(n) MCS0		N/A	N/A	5	N/A	N/A	N/A
	802.11(n) MCS7		0.16	0.20	1	79.03	N/A	N/A
	802.11(n) MCS7		N/A	N/A	7	N/A	N/A	N/A
5470-5725 MHz Band								
Low Channel, Ch 100 - 5500 MHz								
	802.11(a) 6 Mbps		1.42	1.46	1	97.12	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	7	N/A	N/A	N/A
	802.11(a) 36 Mbps		0.25	0.29	1	85.39	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	4	N/A	N/A	N/A
	802.11(a) 54 Mbps		0.17	0.21	1	79.97	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	6	N/A	N/A	N/A
	802.11(n) MCS0		1.32	1.37	1	96.71	N/A	N/A
	802.11(n) MCS0		N/A	N/A	8	N/A	N/A	N/A
	802.11(n) MCS7		0.16	0.20	1	78.93	N/A	N/A
	802.11(n) MCS7		N/A	N/A	7	N/A	N/A	N/A
Mid Channel, Ch 116 - 5580 MHz								
	802.11(a) 6 Mbps		1.42	1.46	1	96.92	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	7	N/A	N/A	N/A
	802.11(a) 36 Mbps		0.26	0.29	1	89.40	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(a) 54 Mbps		0.17	0.21	1	80.60	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	6	N/A	N/A	N/A
	802.11(n) MCS0		1.33	1.37	1	97.00	N/A	N/A
	802.11(n) MCS0		N/A	N/A	8	N/A	N/A	N/A
	802.11(n) MCS7		0.16	0.20	1	79.36	N/A	N/A
	802.11(n) MCS7		N/A	N/A	7	N/A	N/A	N/A
High Channel, Ch 140 - 5700 MHz								
	802.11(a) 6 Mbps		1.42	1.46	1	97.19	N/A	N/A
	802.11(a) 6 Mbps		N/A	N/A	7	N/A	N/A	N/A
	802.11(a) 36 Mbps		0.26	0.29	1	89.40	N/A	N/A
	802.11(a) 36 Mbps		N/A	N/A	5	N/A	N/A	N/A
	802.11(a) 54 Mbps		0.17	0.21	1	79.75	N/A	N/A
	802.11(a) 54 Mbps		N/A	N/A	6	N/A	N/A	N/A
	802.11(n) MCS0		1.33	1.37	1	96.86	N/A	N/A
	802.11(n) MCS0		N/A	N/A	8	N/A	N/A	N/A
	802.11(n) MCS7		0.17	0.20	1	84.80	N/A	N/A
	802.11(n) MCS7		N/A	N/A	5	N/A	N/A	N/A

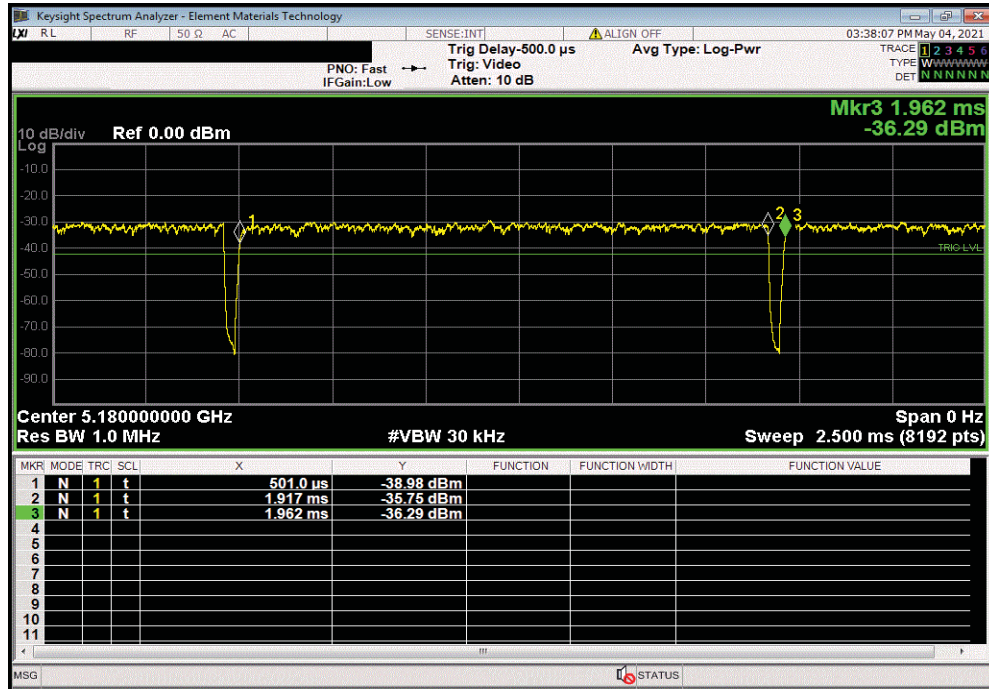
5470-5725 MHz Band							
Low Channel, Ch 100 - 5500 MHz							
802.11(a) 6 Mbps	1.42	1.46	1	97.12	N/A	N/A	
802.11(a) 6 Mbps	N/A	N/A	7	N/A	N/A	N/A	
802.11(a) 36 Mbps	0.25	0.29	1	85.39	N/A	N/A	
802.11(a) 36 Mbps	N/A	N/A	4	N/A	N/A	N/A	
802.11(a) 54 Mbps	0.17	0.21	1	79.97	N/A	N/A	
802.11(a) 54 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) MCS0	1.32	1.37	1	96.71	N/A	N/A	
802.11(n) MCS0	N/A	N/A	8	N/A	N/A	N/A	
802.11(n) MCS7	0.16	0.20	1	78.93	N/A	N/A	
802.11(n) MCS7	N/A	N/A	7	N/A	N/A	N/A	
Mid Channel, Ch 116 - 5580 MHz							
802.11(a) 6 Mbps	1.42	1.46	1	96.92	N/A	N/A	
802.11(a) 6 Mbps	N/A	N/A	7	N/A	N/A	N/A	
802.11(a) 36 Mbps	0.26	0.29	1	89.40	N/A	N/A	
802.11(a) 36 Mbps	N/A	N/A	5	N/A	N/A	N/A	
802.11(a) 54 Mbps	0.17	0.21	1	80.60	N/A	N/A	
802.11(a) 54 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) MCS0	1.33	1.37	1	97.00	N/A	N/A	
802.11(n) MCS0	N/A	N/A	8	N/A	N/A	N/A	
802.11(n) MCS7	0.16	0.20	1	79.36	N/A	N/A	
802.11(n) MCS7	N/A	N/A	7	N/A	N/A	N/A	
High Channel, Ch 140 - 5700 MHz							
802.11(a) 6 Mbps	1.42	1.46	1	97.19	N/A	N/A	
802.11(a) 6 Mbps	N/A	N/A	7	N/A	N/A	N/A	
802.11(a) 36 Mbps	0.26	0.29	1	89.40	N/A	N/A	
802.11(a) 36 Mbps	N/A	N/A	5	N/A	N/A	N/A	
802.11(a) 54 Mbps	0.17	0.21	1	79.75	N/A	N/A	
802.11(a) 54 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) MCS0	1.33	1.37	1	96.86	N/A	N/A	
802.11(n) MCS0	N/A	N/A	8	N/A	N/A	N/A	
802.11(n) MCS7	0.17	0.20	1	84.80	N/A	N/A	
802.11(n) MCS7	N/A	N/A	5	N/A	N/A	N/A	
5725-5785 MHz Band							
Low Channel, Ch 149 - 5745 MHz							
802.11(a) 6 Mbps	1.42	1.46	1	97.05	N/A	N/A	
802.11(a) 6 Mbps	N/A	N/A	7	N/A	N/A	N/A	
802.11(a) 36 Mbps	0.24	0.29	1	83.66	N/A	N/A	
802.11(a) 36 Mbps	N/A	N/A	4	N/A	N/A	N/A	
802.11(a) 54 Mbps	0.17	0.21	1	79.50	N/A	N/A	
802.11(a) 54 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) MCS0	1.32	1.37	1	96.93	N/A	N/A	
802.11(n) MCS0	N/A	N/A	8	N/A	N/A	N/A	
802.11(n) MCS7	0.15	0.20	1	78.38	N/A	N/A	
802.11(n) MCS7	N/A	N/A	9	N/A	N/A	N/A	
Mid Channel, Ch 157 - 5785 MHz							
802.11(a) 6 Mbps	1.42	1.46	1	97.12	N/A	N/A	
802.11(a) 6 Mbps	N/A	N/A	7	N/A	N/A	N/A	
802.11(a) 36 Mbps	0.24	0.29	1	84.55	N/A	N/A	
802.11(a) 36 Mbps	N/A	N/A	8	N/A	N/A	N/A	
802.11(a) 54 Mbps	0.17	0.21	1	79.47	N/A	N/A	
802.11(a) 54 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) MCS0	1.32	1.37	1	96.71	N/A	N/A	
802.11(n) MCS0	N/A	N/A	8	N/A	N/A	N/A	
802.11(n) MCS7	0.15	0.20	1	76.85	N/A	N/A	
802.11(n) MCS7	N/A	N/A	6	N/A	N/A	N/A	
High Channel, Ch 165 - 5825 MHz							
802.11(a) 6 Mbps	1.41	1.46	1	97.12	N/A	N/A	
802.11(a) 6 Mbps	N/A	N/A	7	N/A	N/A	N/A	
802.11(a) 36 Mbps	0.24	0.29	1	85.12	N/A	N/A	
802.11(a) 36 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(a) 54 Mbps	0.17	0.21	1	79.47	N/A	N/A	
802.11(a) 54 Mbps	N/A	N/A	6	N/A	N/A	N/A	
802.11(n) MCS0	1.32	1.36	1	96.92	N/A	N/A	
802.11(n) MCS0	N/A	N/A	8	N/A	N/A	N/A	
802.11(n) MCS7	0.16	0.20	1	78.74	N/A	N/A	
802.11(n) MCS7	N/A	N/A	6	N/A	N/A	N/A	

DUTY CYCLE

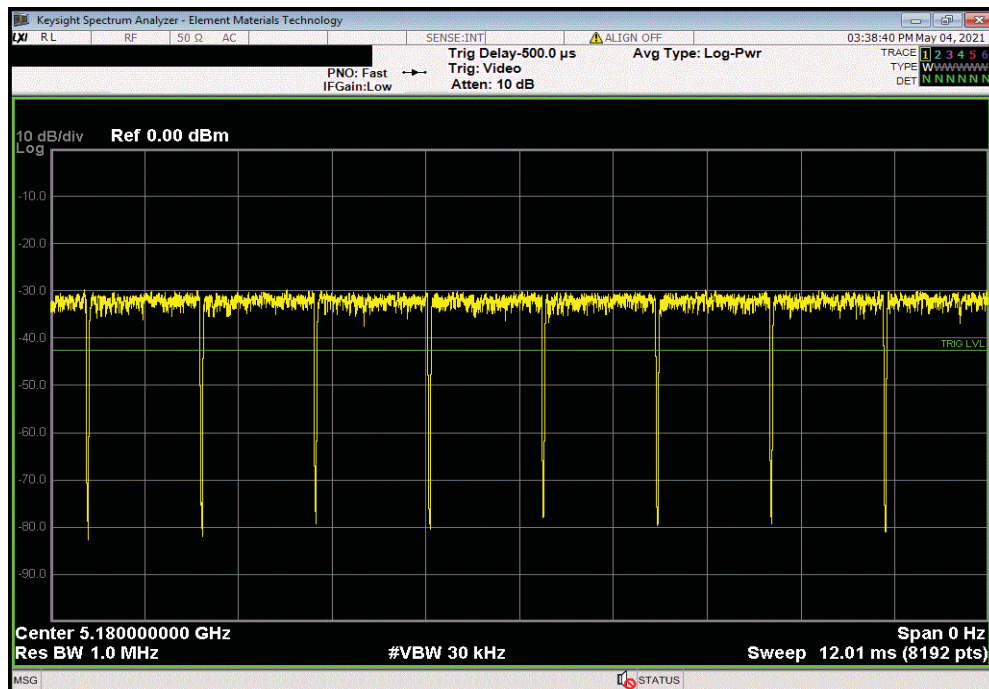


XMIT 2020.12.30.0

5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	96.92	N/A	N/A	



5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	



DUTY CYCLE

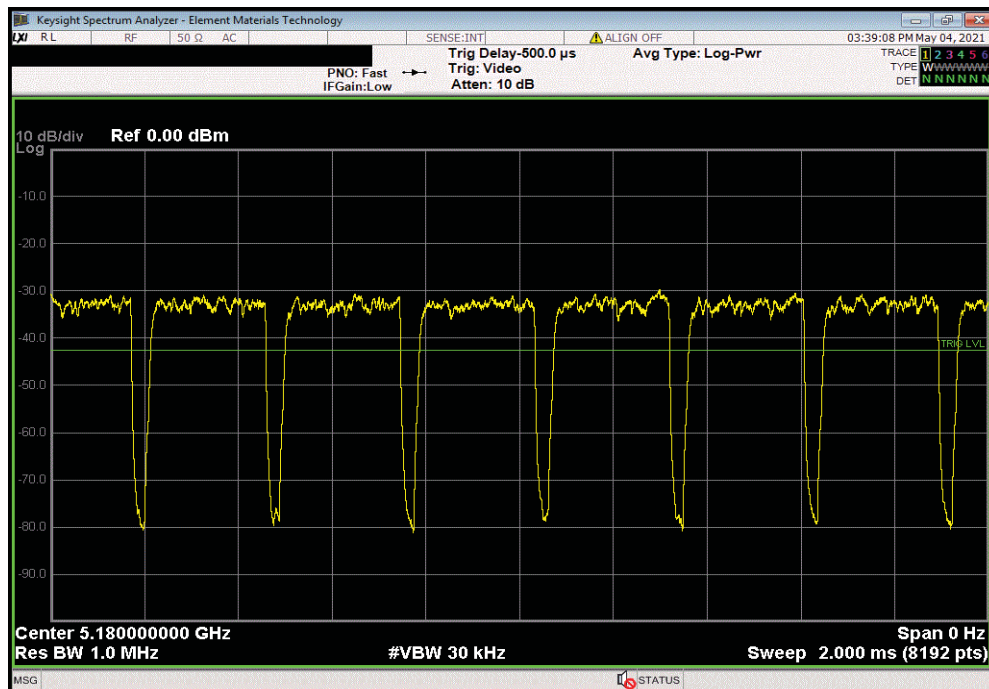


XMIT 2020.12.30.0

5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.24	0.29	1	85.25	N/A	N/A	



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

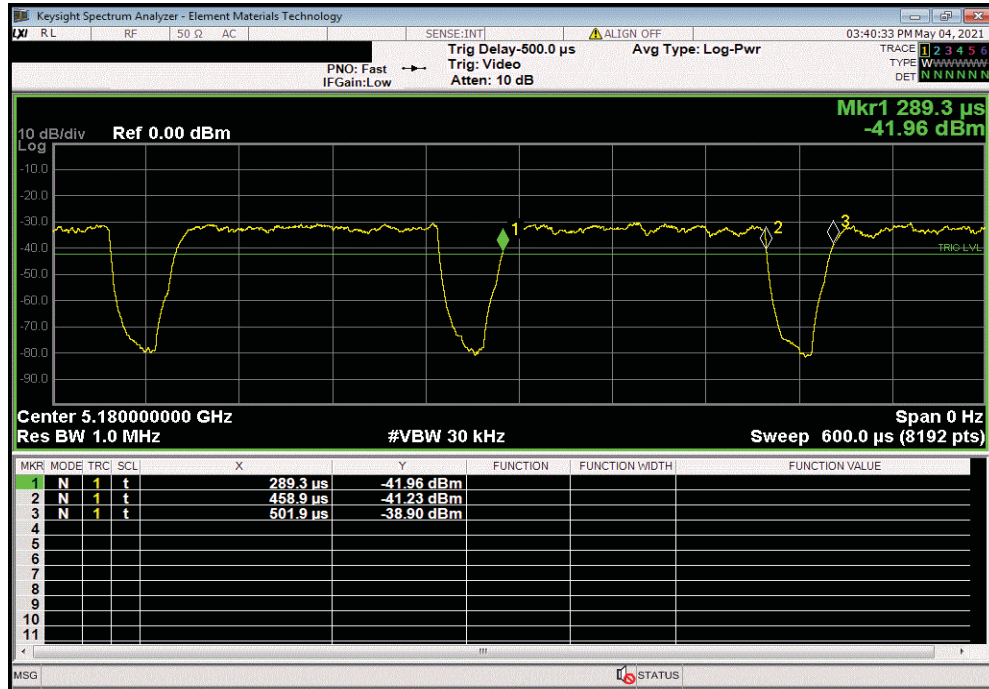


DUTY CYCLE

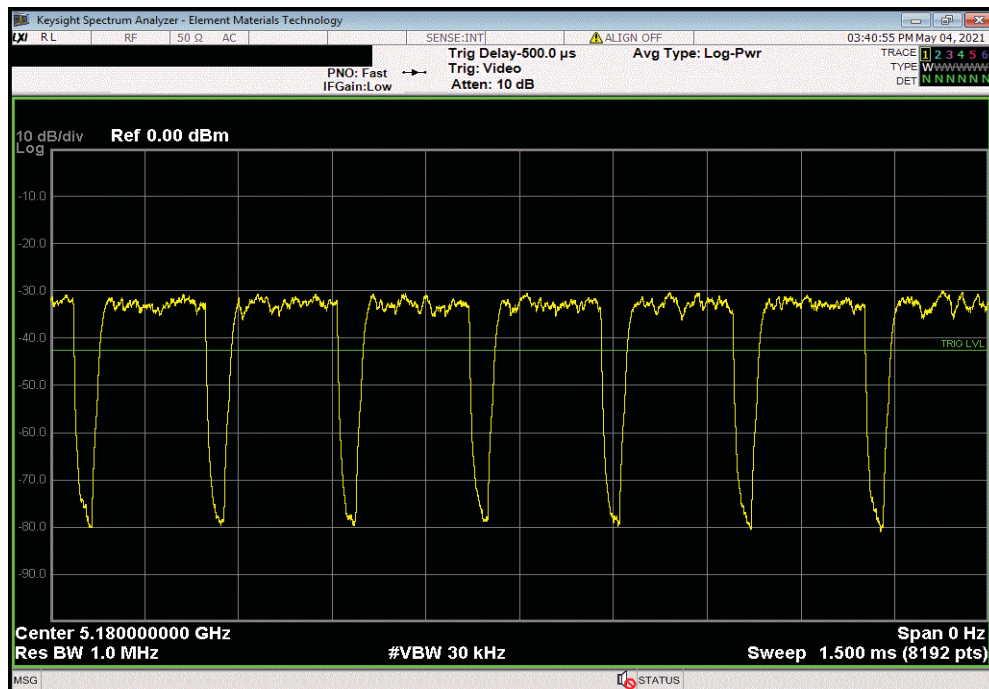


XMIT 2020.12.30.0

5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	79.77	N/A	N/A	



5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

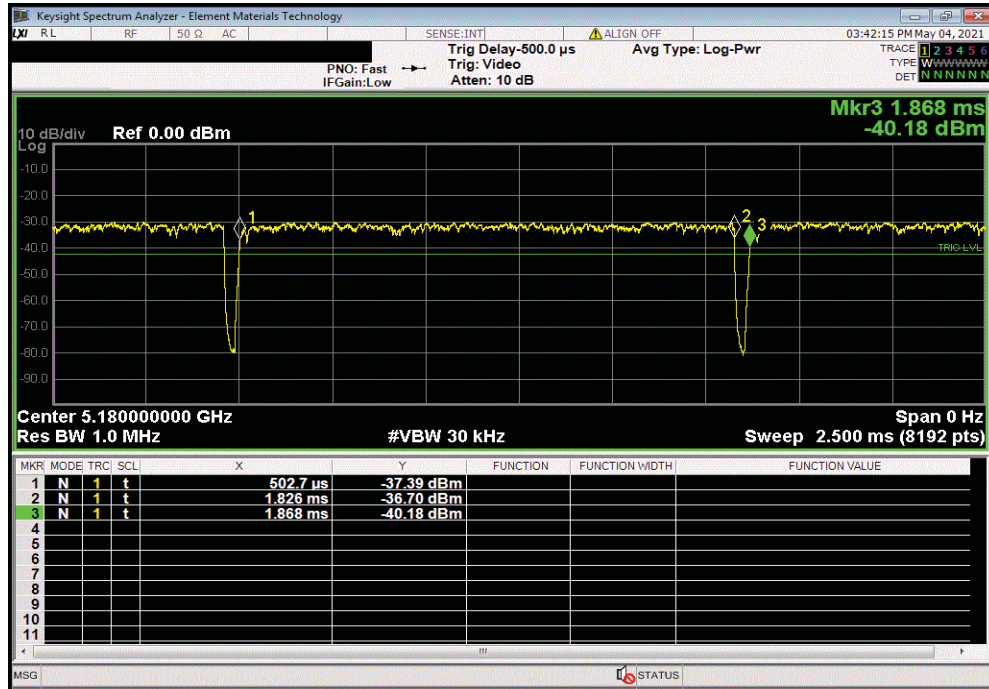


DUTY CYCLE

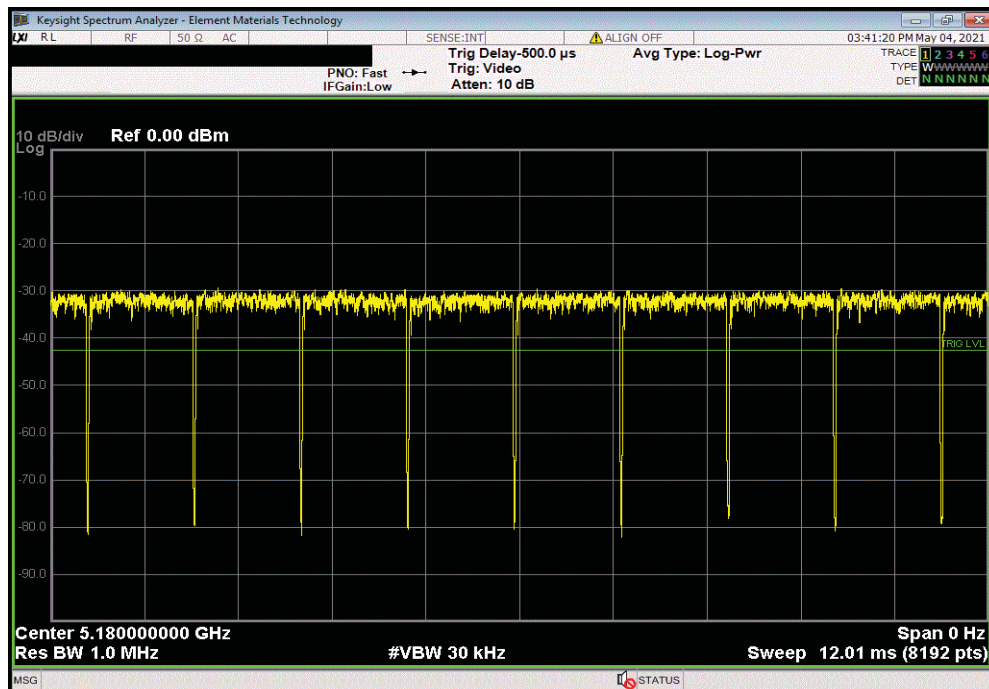


XMIT 2020.12.30.0

5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.32	1.37	1	96.92	N/A	N/A	



5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	

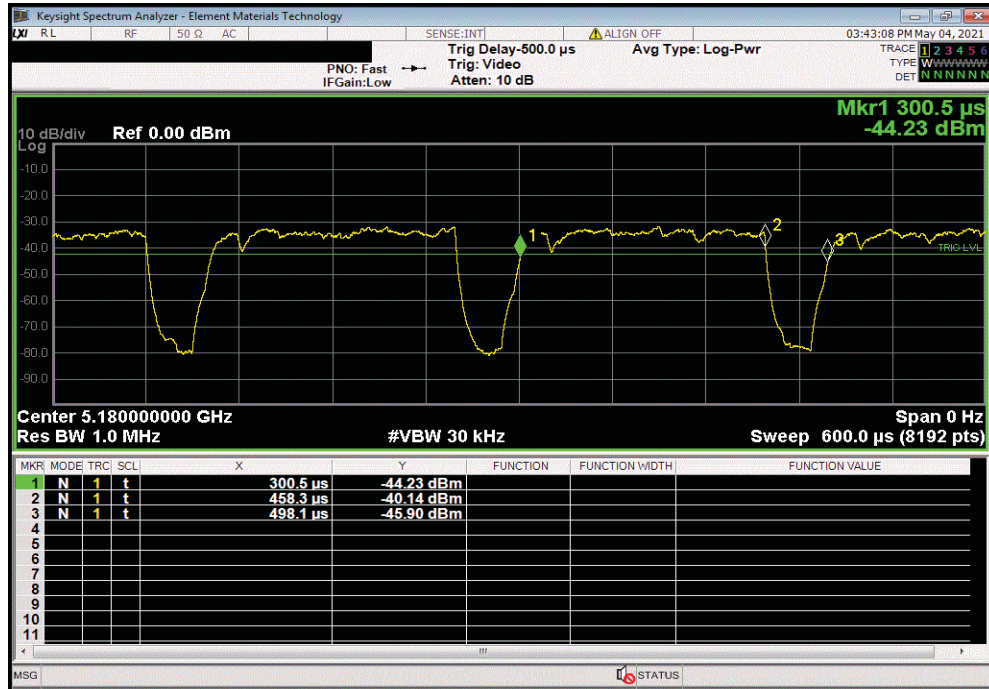


DUTY CYCLE

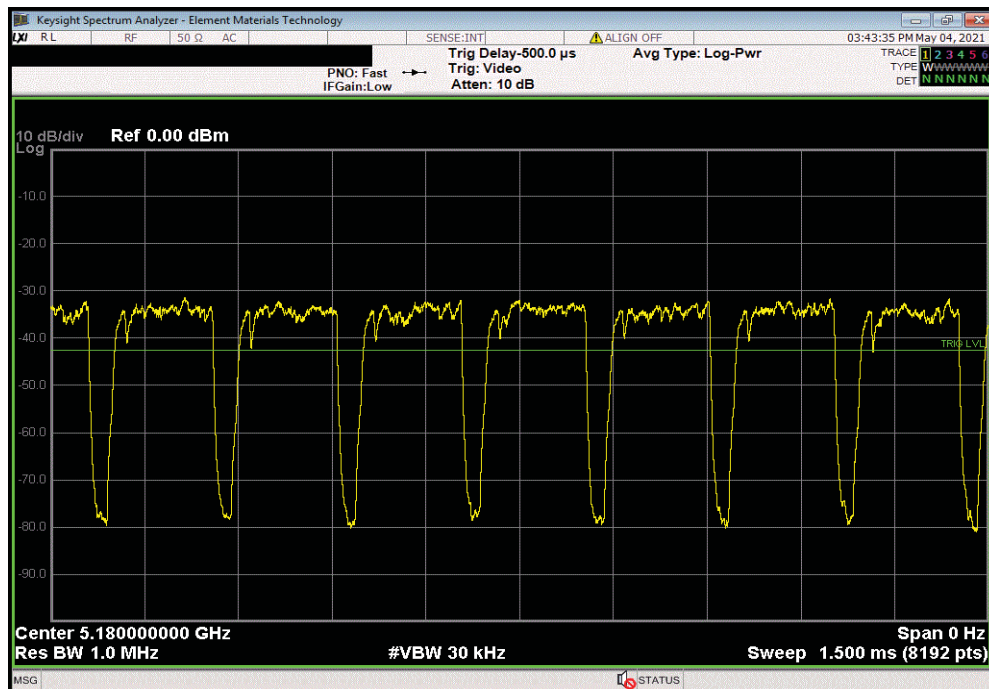


XMIT 2020.12.30.0

5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.16	0.20	1	79.86	N/A	N/A	



5150-5250 MHz Band, Low Channel, Ch 36 - 5180 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

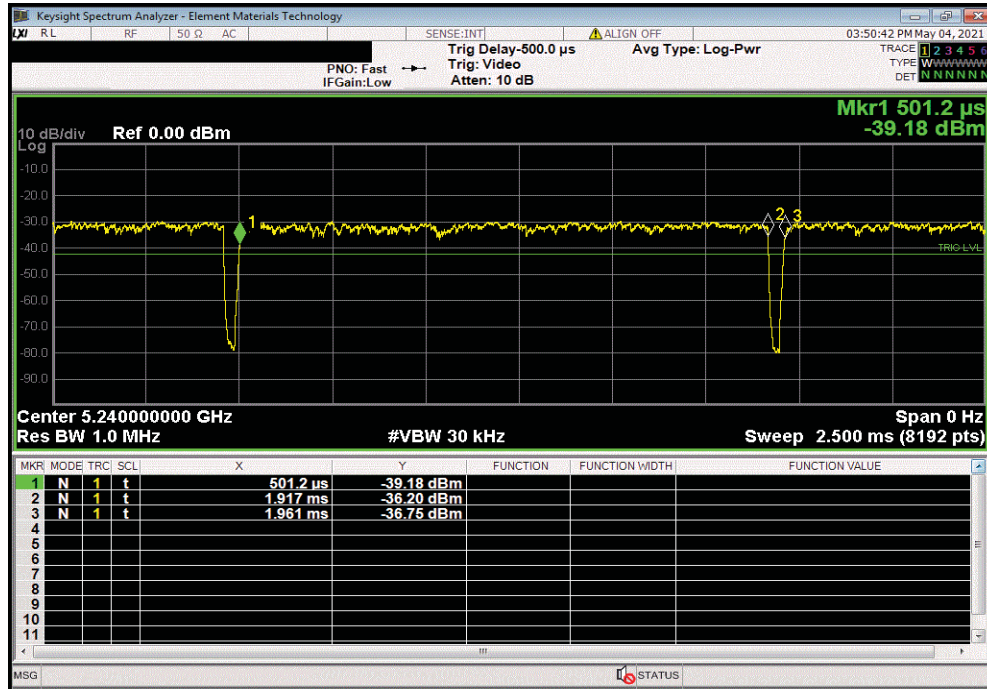


DUTY CYCLE

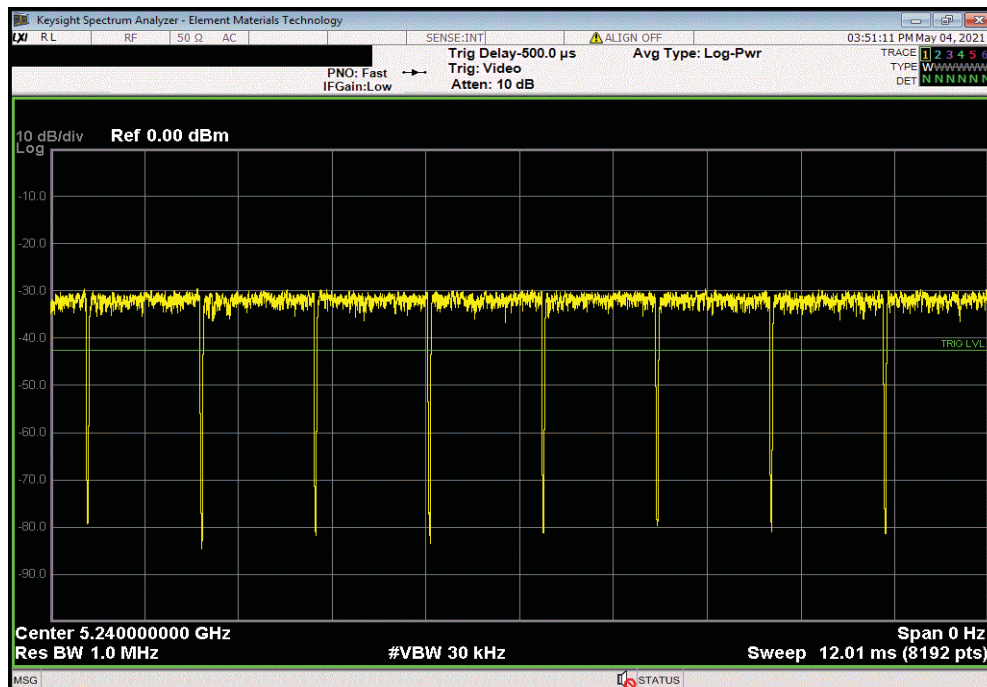


XMIT 2020.12.30.0

5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	96.99	N/A	N/A	



5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

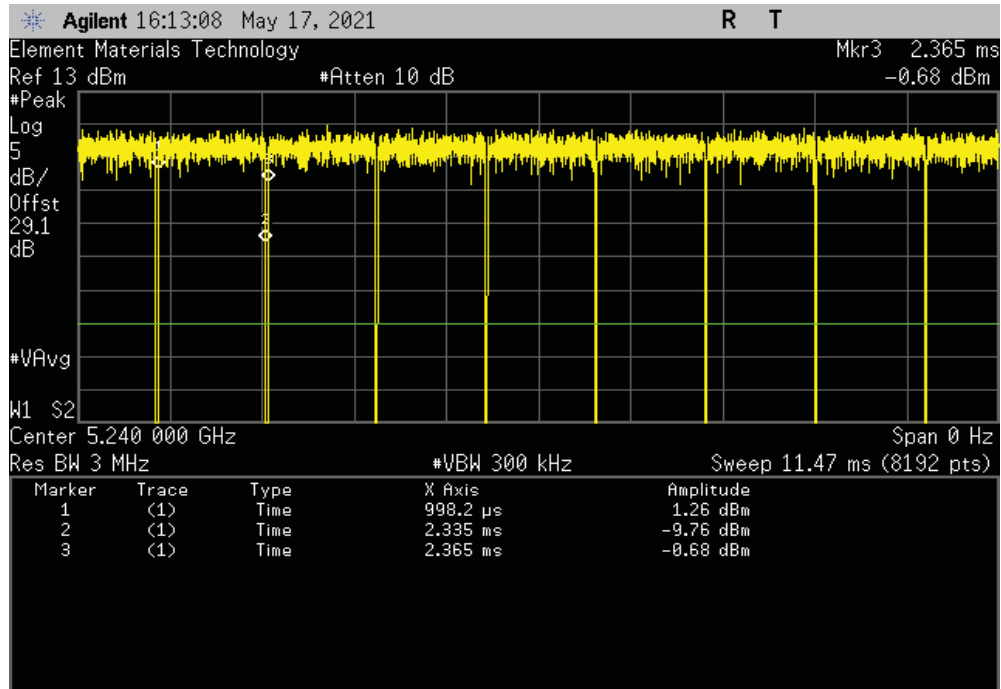


DUTY CYCLE

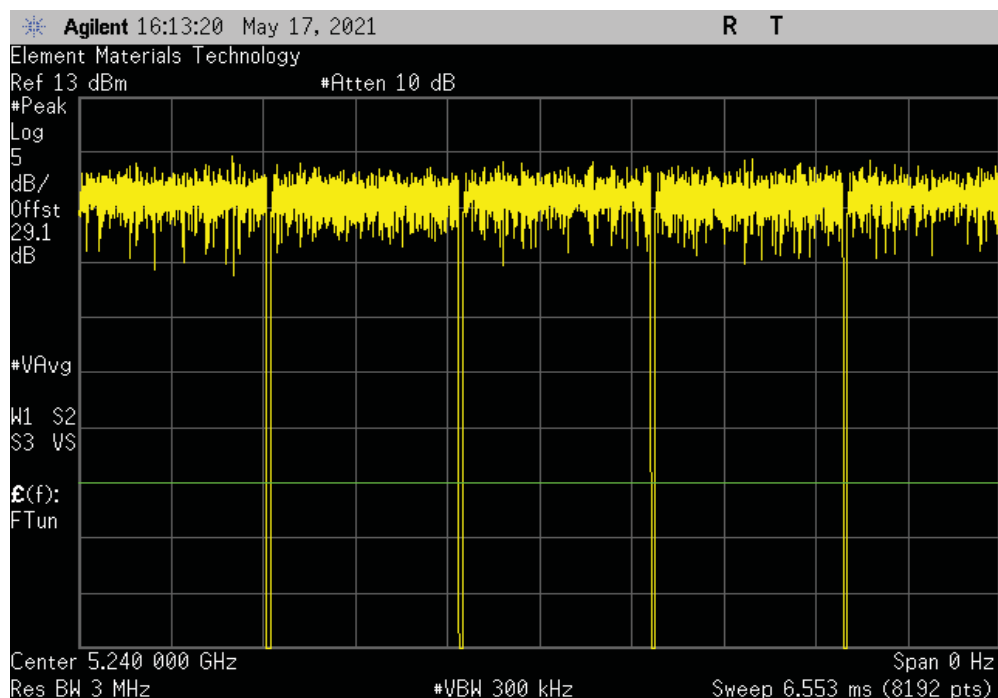


XMIT 2020.12.30.0

5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.337	1.366	1	97.8	N/A	N/A	



5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

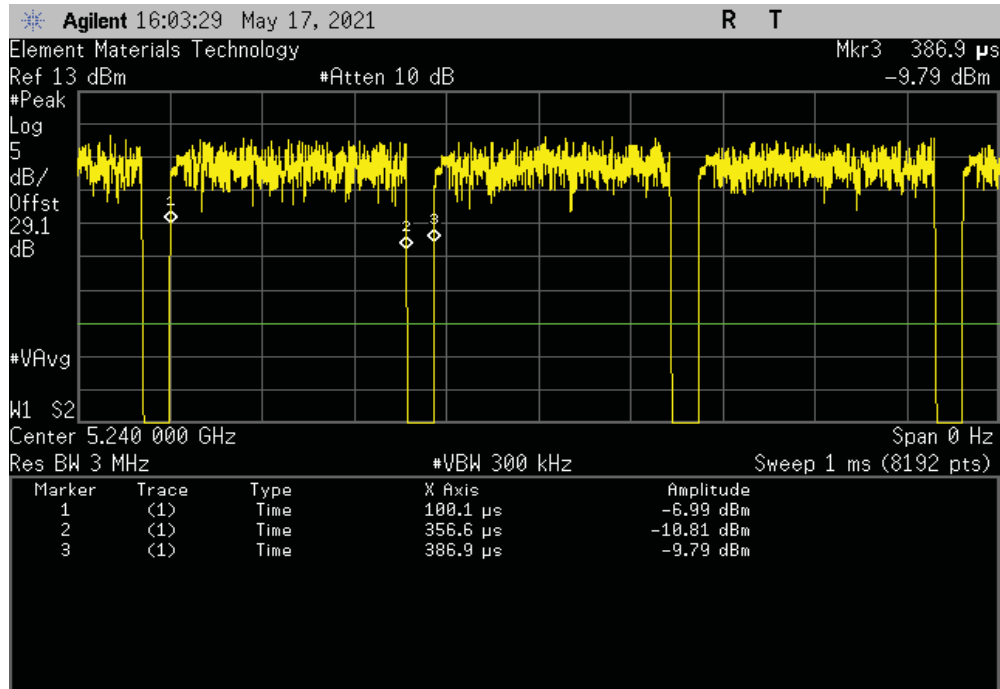


DUTY CYCLE

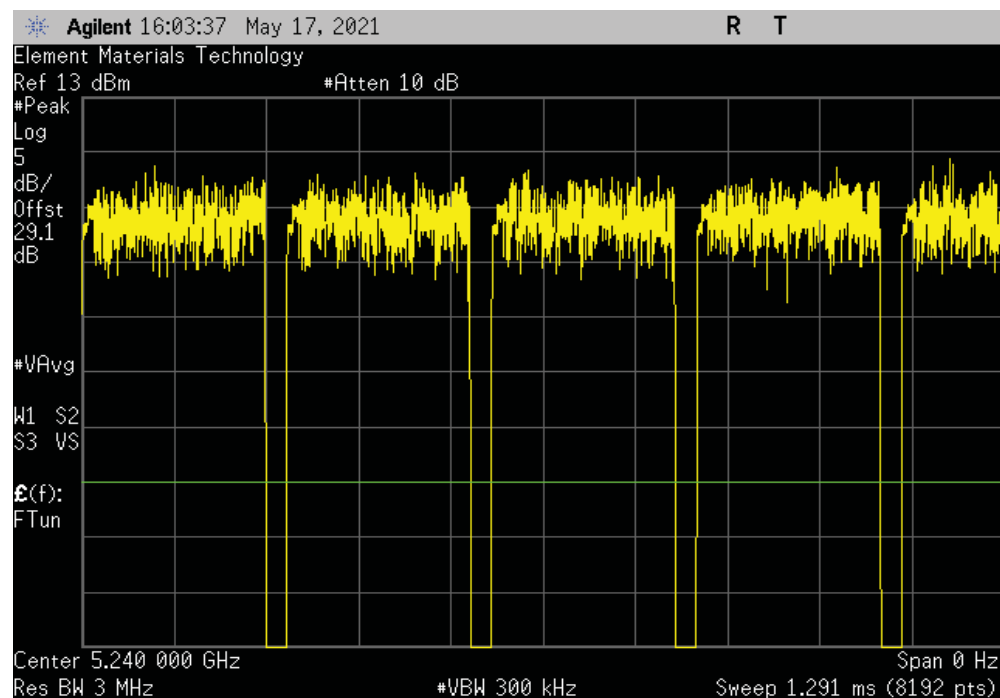


XMIT 2020.12.30.0

5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.2565	0.2868	1	89.4	N/A	N/A	



5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

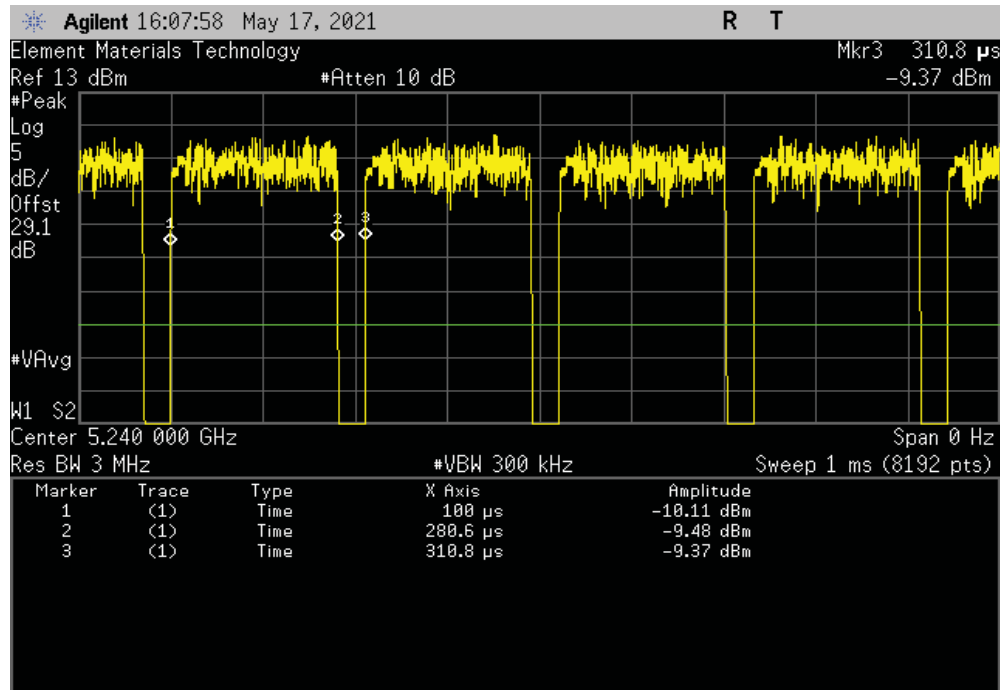


DUTY CYCLE

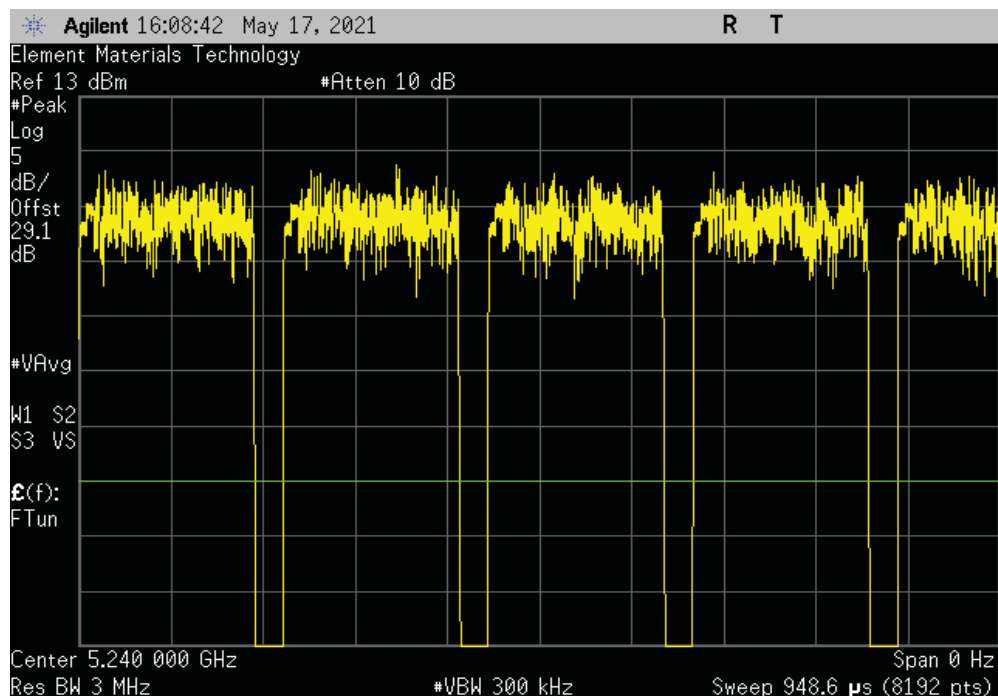


XMIT 2020.12.30.0

5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.1806	0.2108	1	85.7	N/A	N/A	



5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

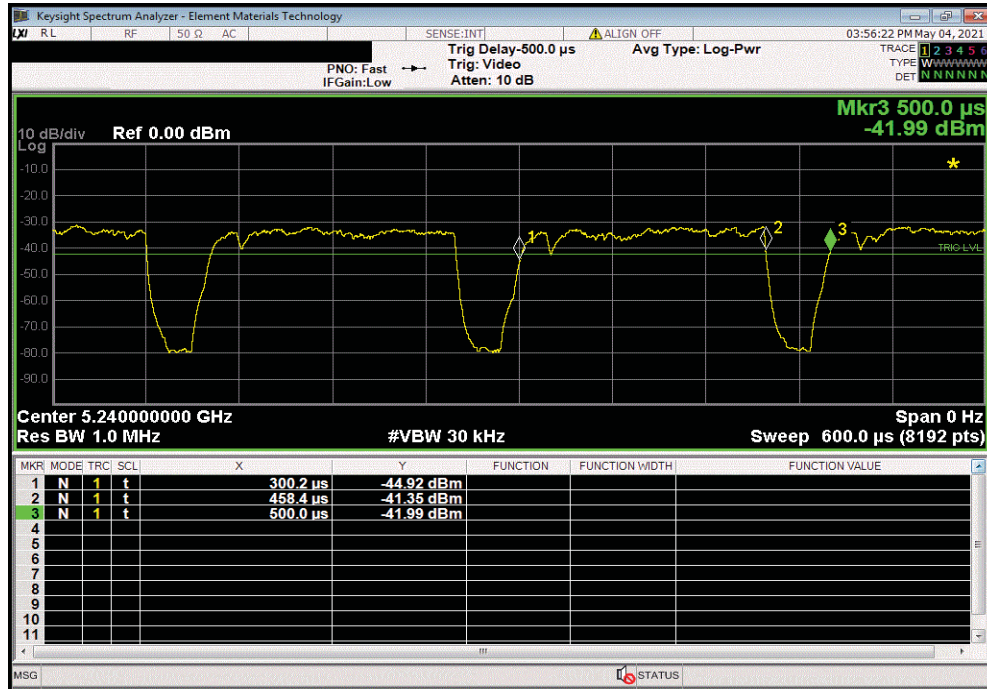


DUTY CYCLE

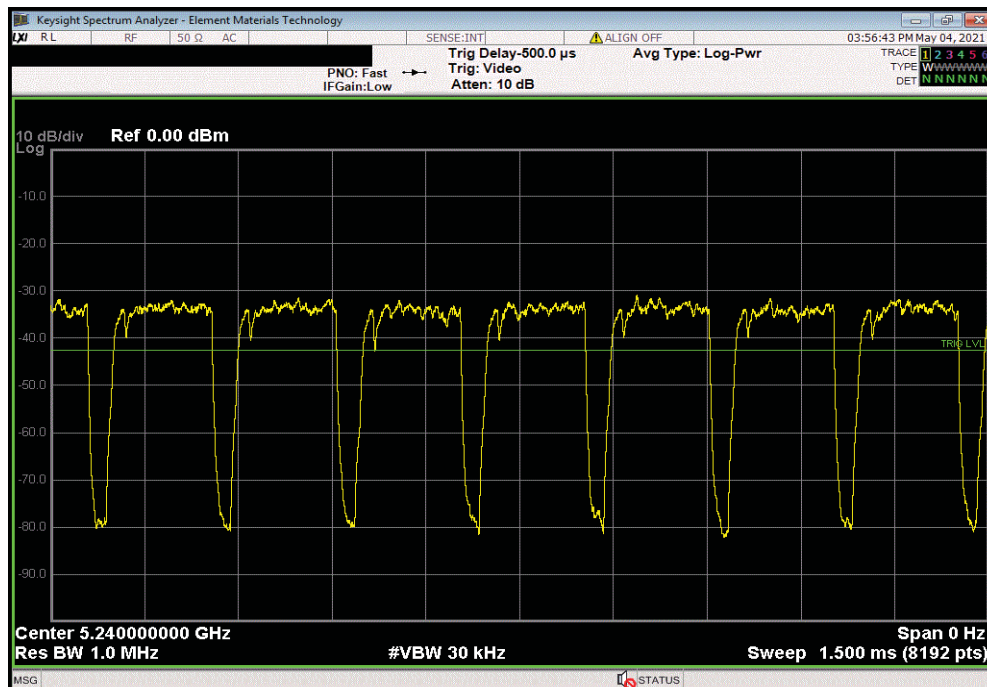


XMIT 2020.12.30.0

5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.16	0.20	1	79.18	N/A	N/A	



5150-5250 MHz Band, High Channel, Ch 48 - 5240 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

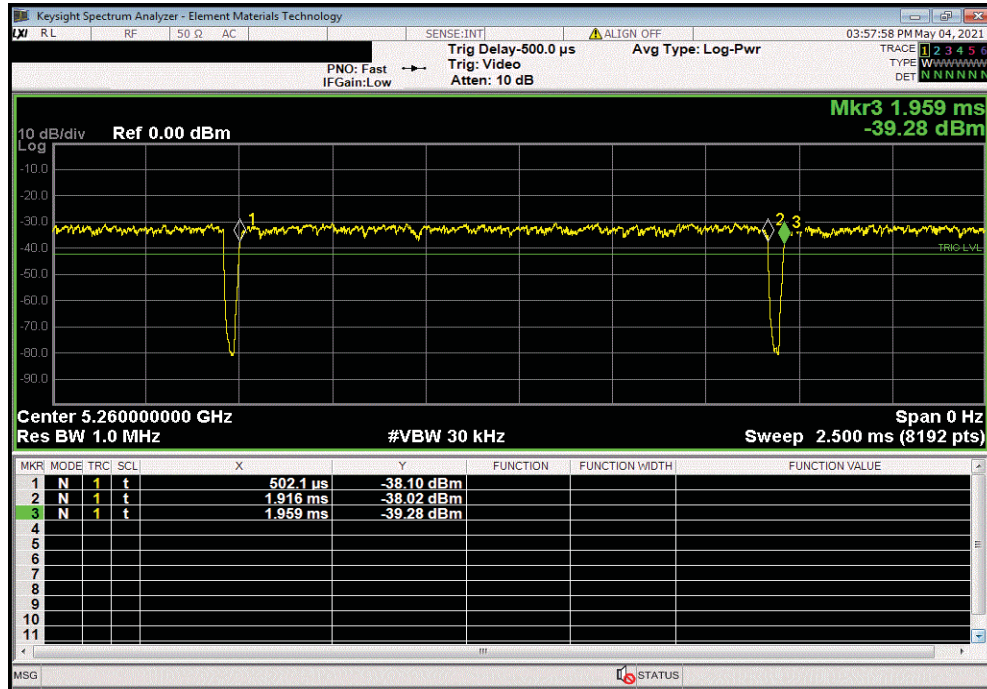


DUTY CYCLE

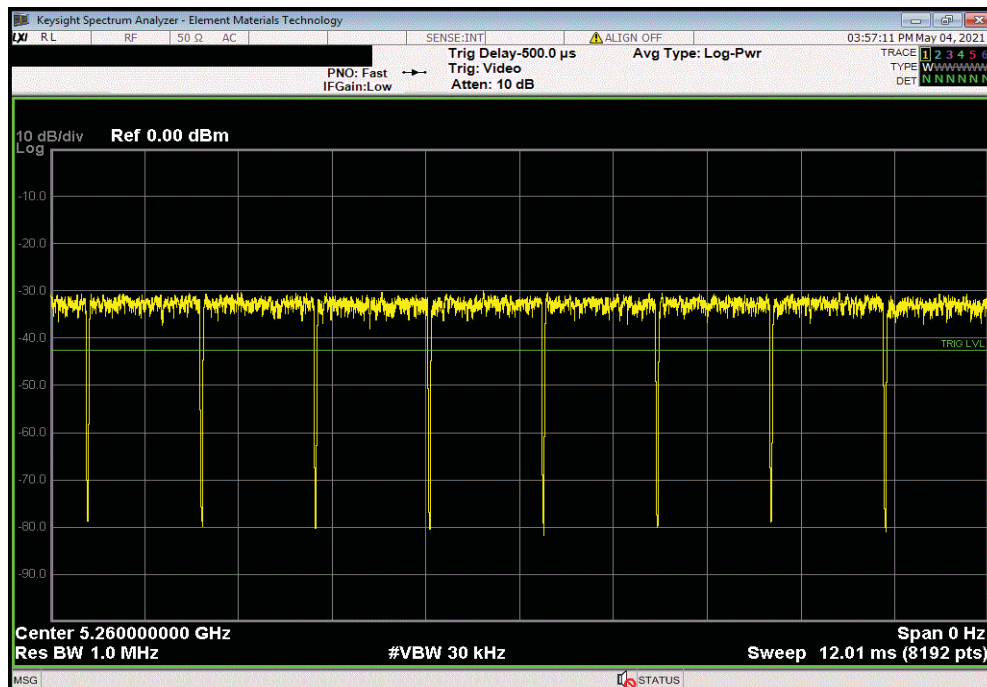


XMIT 2020.12.30.0

5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.41	1.46	1	97.05	N/A	N/A	



5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

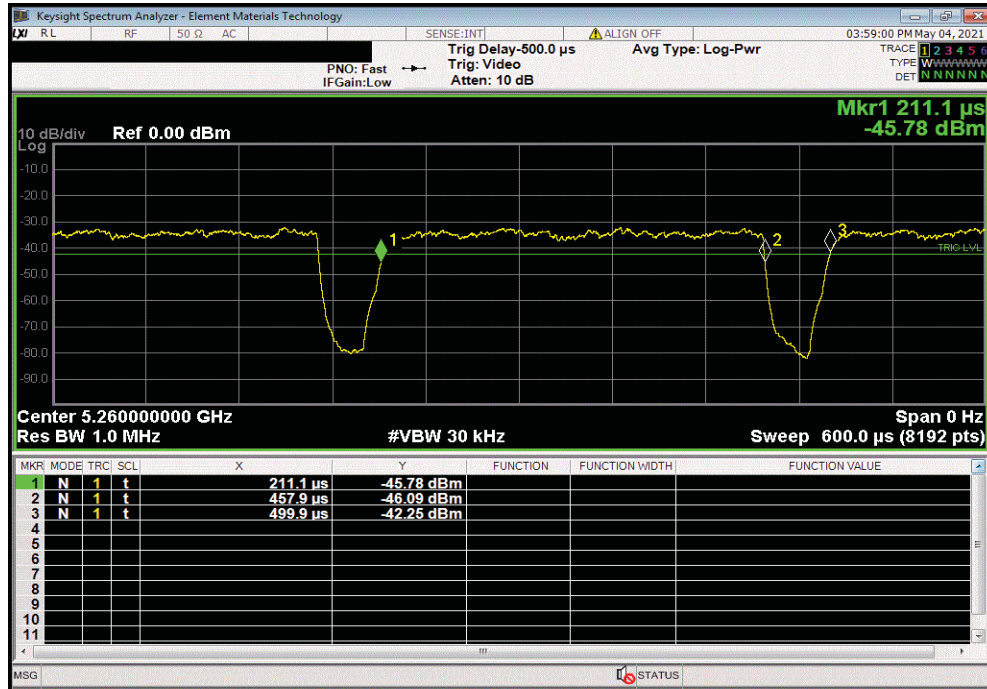


DUTY CYCLE

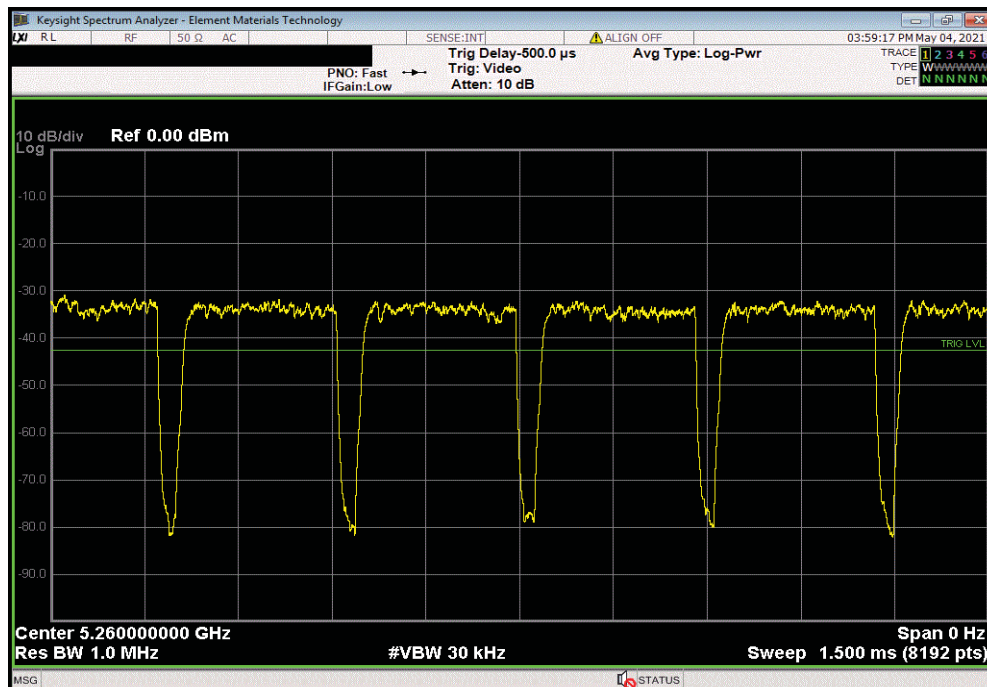


XMIT 2020.12.30.0

5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.25	0.29	1	85.46	N/A	N/A	



5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	4	N/A	N/A	N/A	

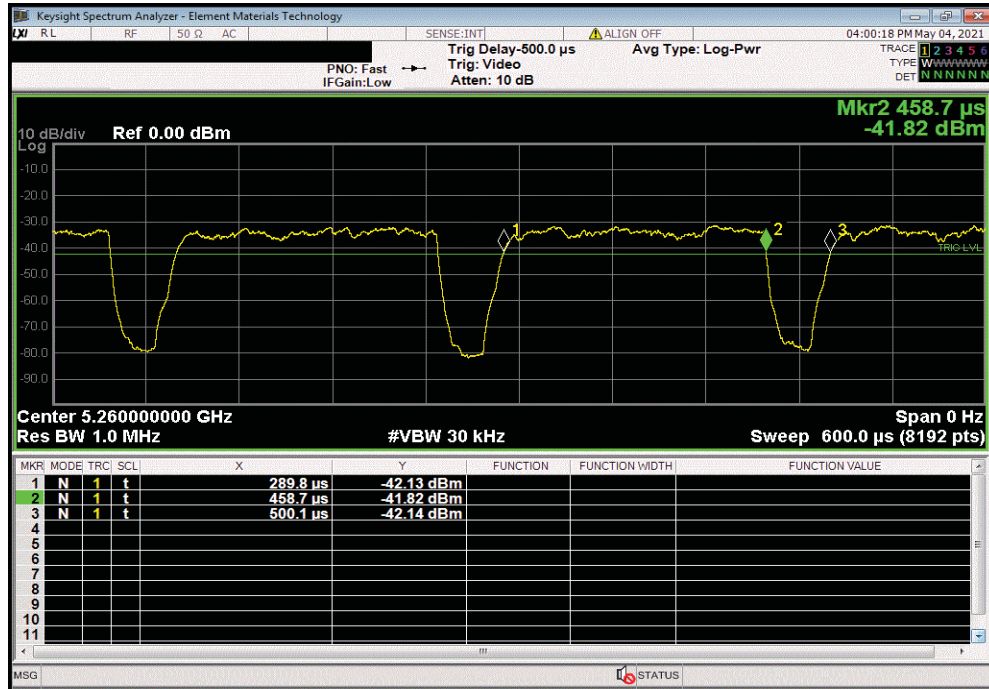


DUTY CYCLE

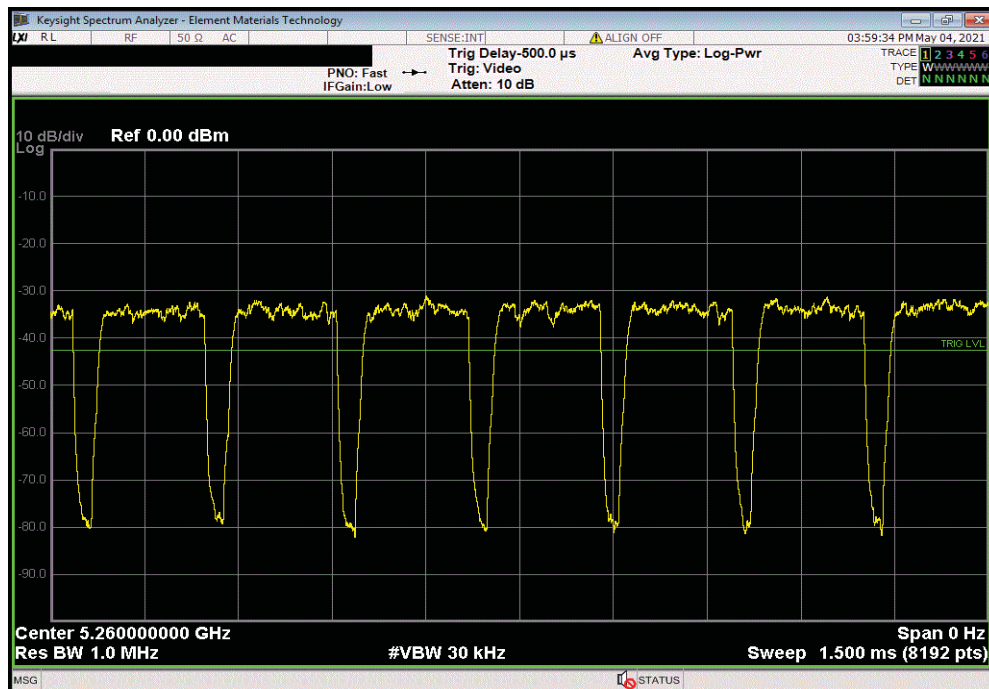


XMIT 2020.12.30.0

5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	80.31	N/A	N/A	



5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

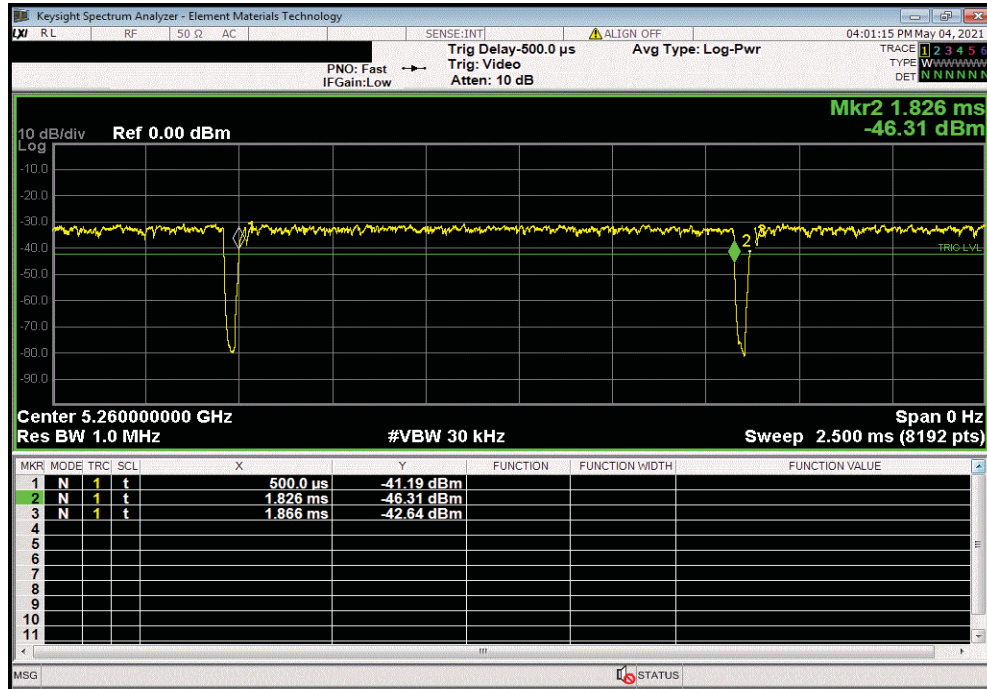


DUTY CYCLE

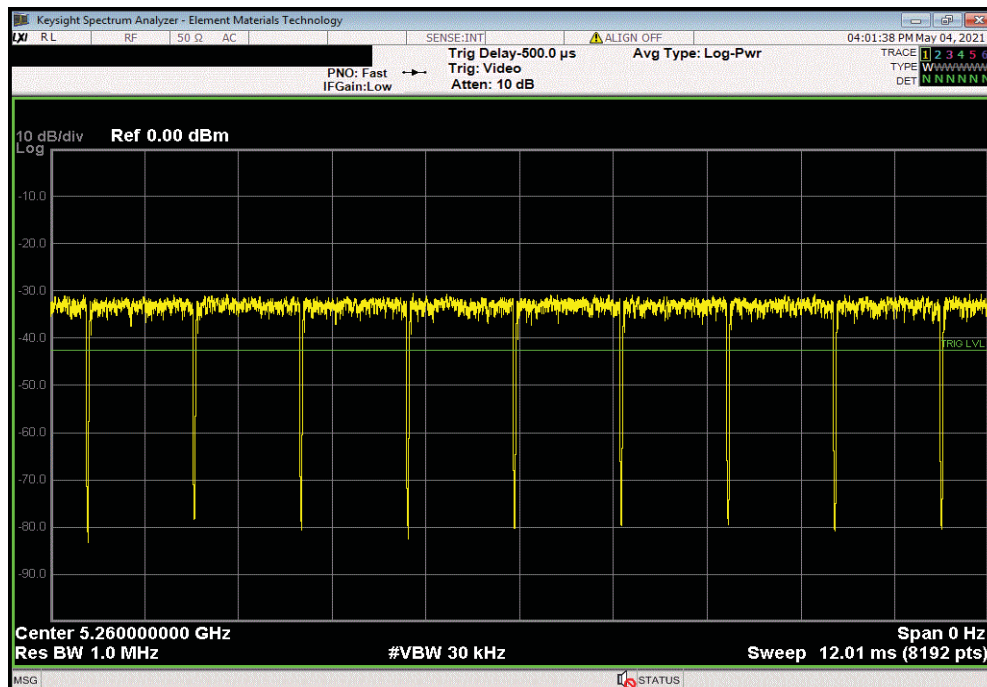


XMIT 2020.12.30.0

5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.33	1.37	1	97.07	N/A	N/A	



5250-5350 MHz Band, Low Channel, Ch 52 - 5260 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	



YMIT 2020 12 30 4

[illegible]

Keysight Spectrum Analyzer - Element Materials Technology

04:01:59 PM May 04, 2021

SENSE:INT

ALIGN OFF

Trig Delay: 600.0 μ s

Avg Type: Log-Pwr

PNO: Fast

Trig: Video

IFGain: Low

Atten: 10 dB

TRACE 1

TYPE W

DET N

10 dB/div

Log

Ref 0.00 dBm

TRIG LVL

Center 5.26000000 GHz

Span 0 Hz

Res BW 1.0 MHz

#VBW 30 kHz

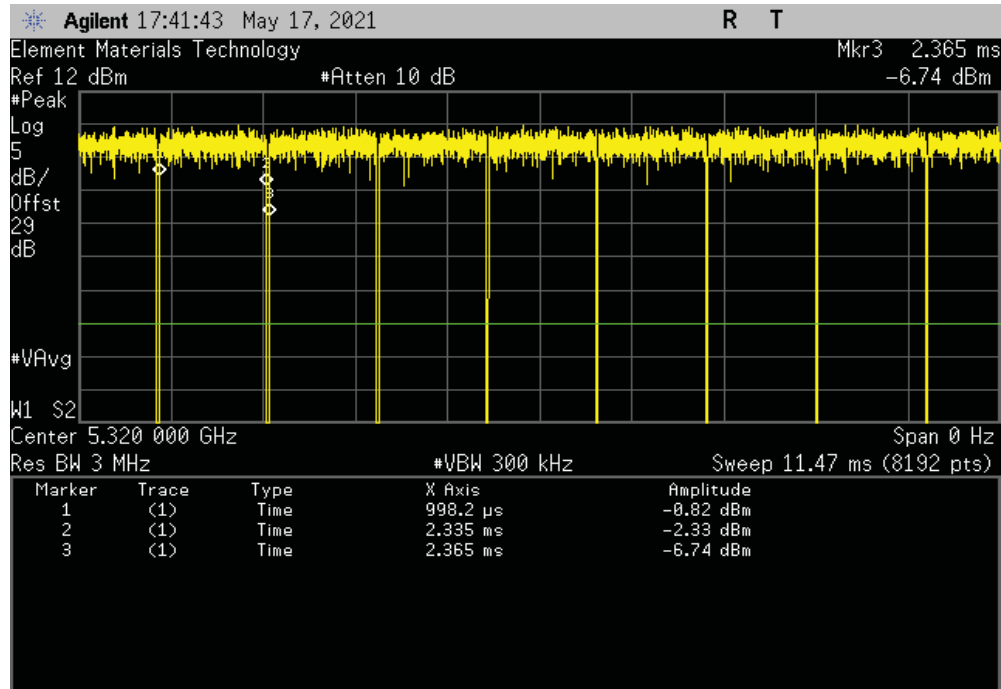
Sweep 1.500 ms (8192 pts)

DUTY CYCLE

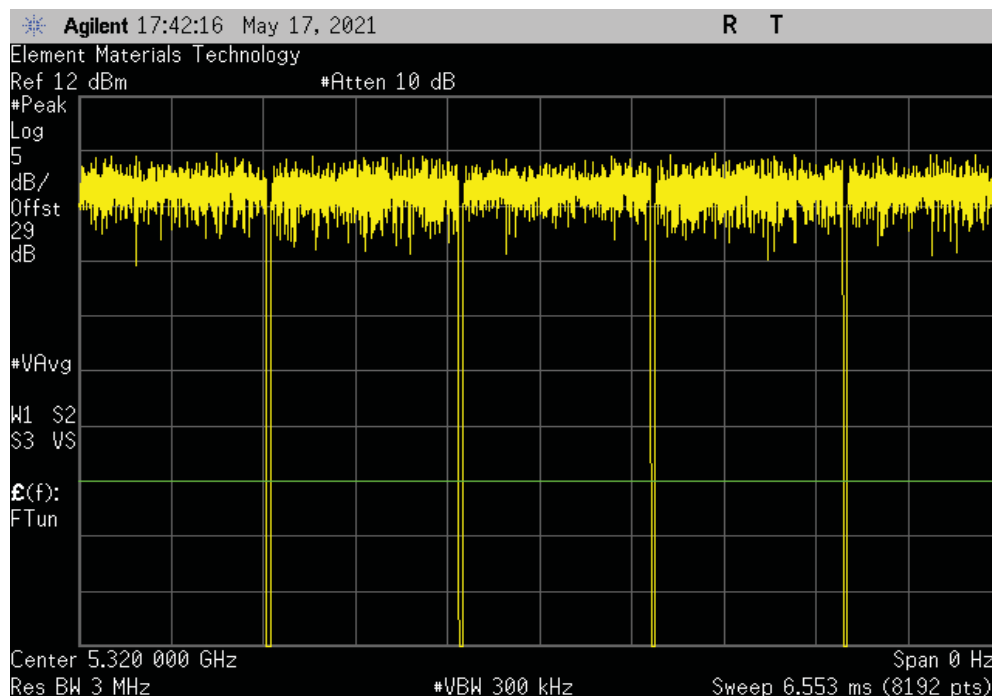


XMIT 2020.12.30.0

5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.337	1.366	1	97.8	N/A	N/A	



5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

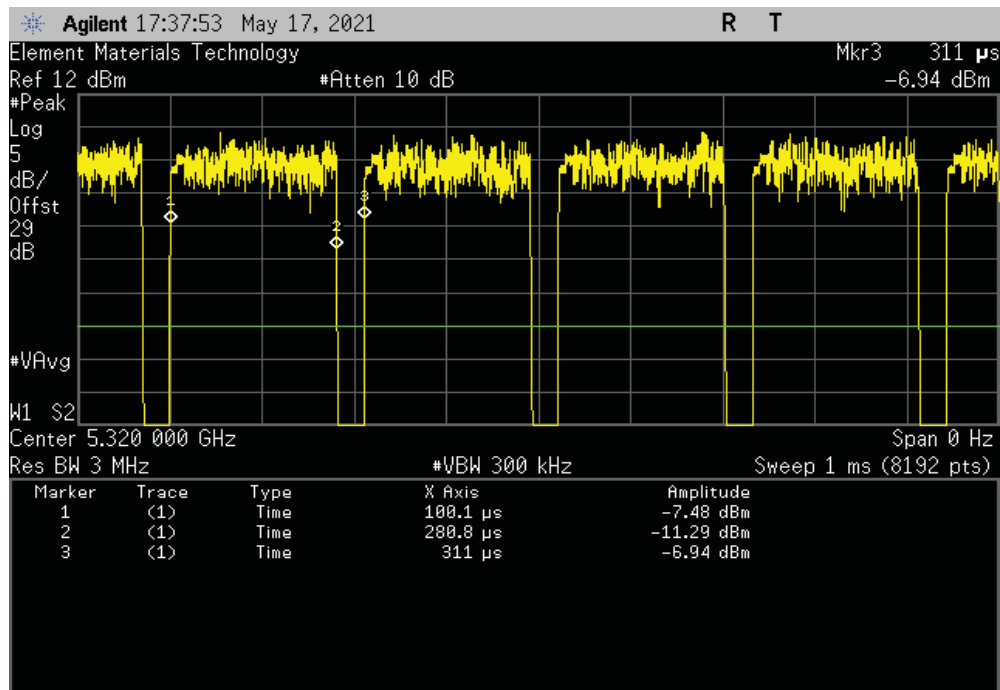


DUTY CYCLE

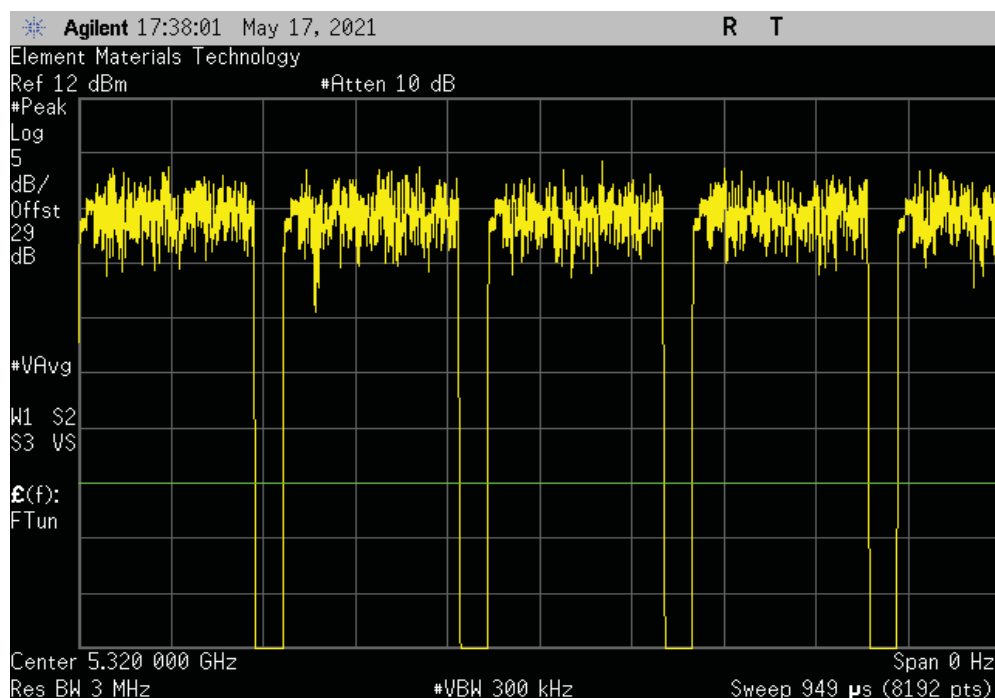


XMIT 2020.12.30.0

5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.1807	0.2109	1	85.7	N/A	N/A	



5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

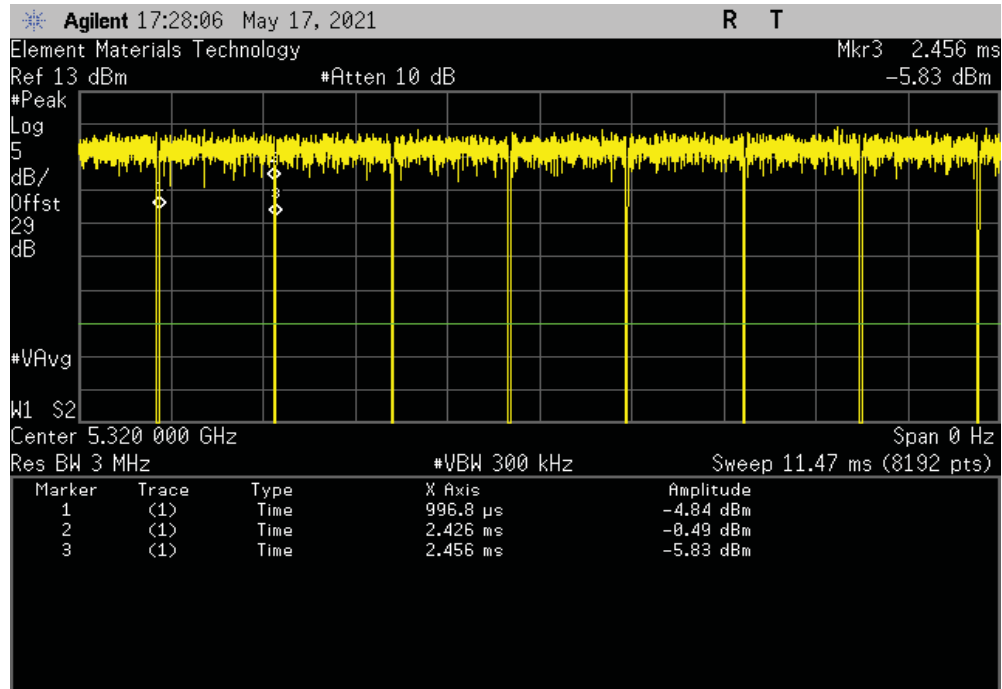


DUTY CYCLE

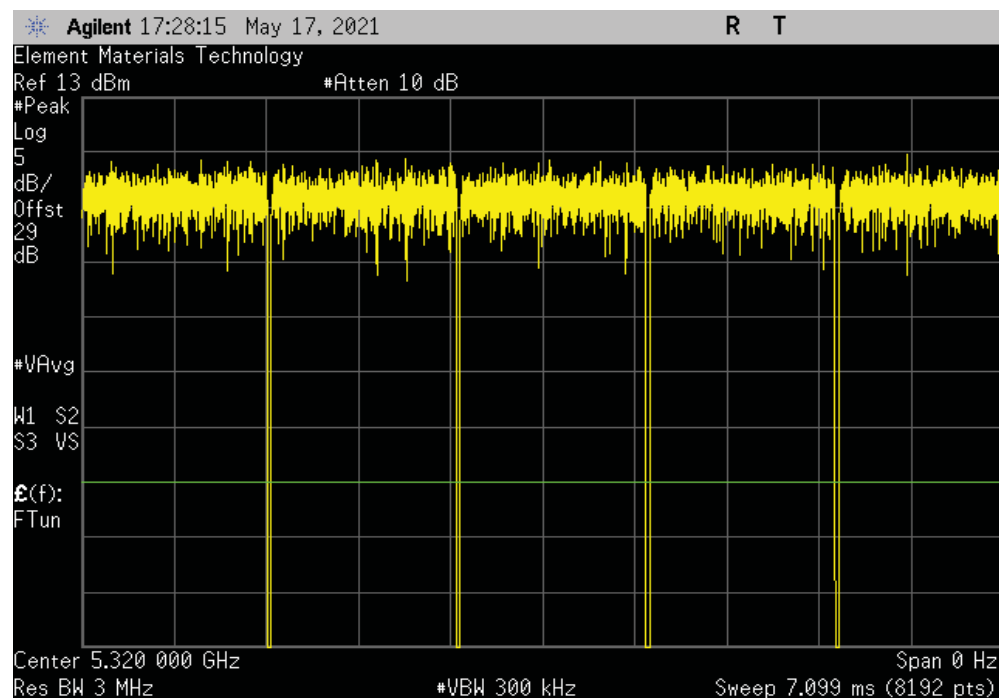


XMIT 2020.12.30.0

5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.429	1.459	1	98	N/A	N/A	



5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

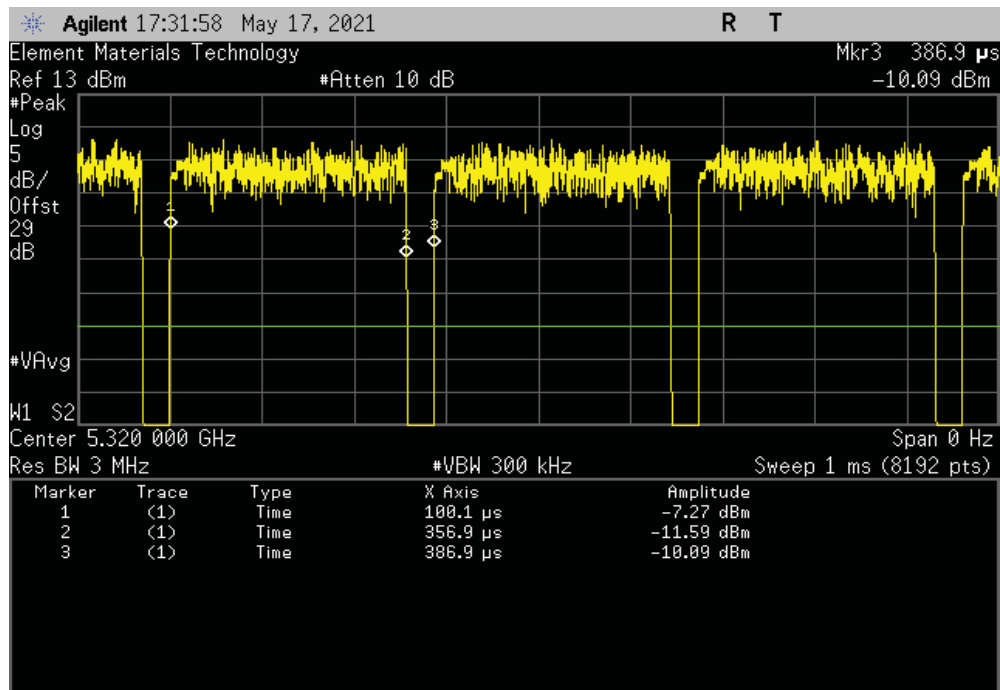


DUTY CYCLE

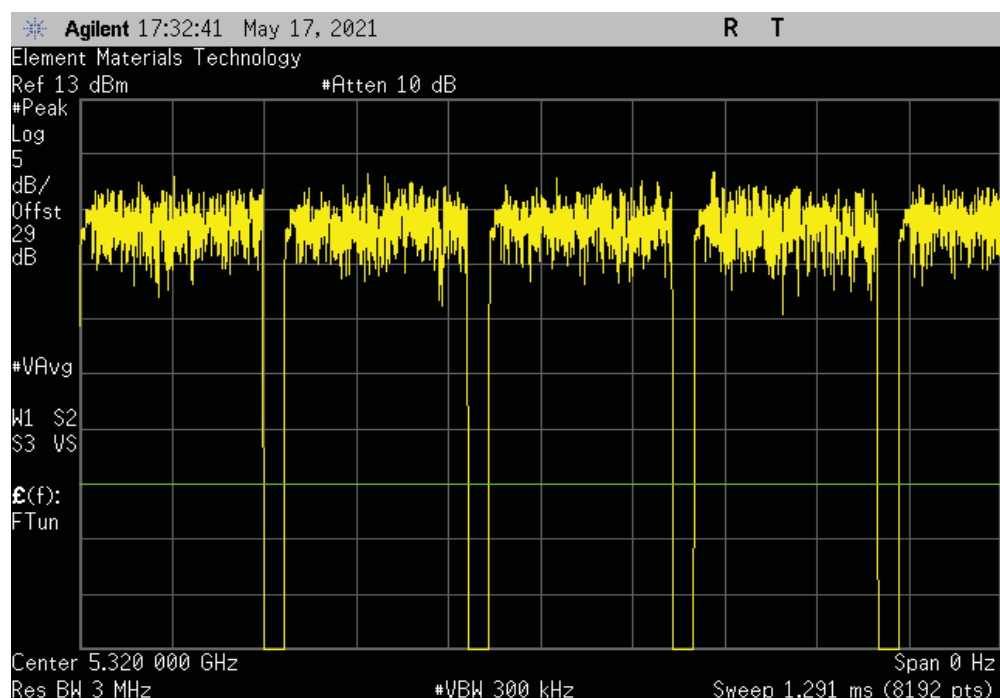


XMIT 2020.12.30.0

5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.2568	0.2868	1	89.5	N/A	N/A	



5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	



DUTY CYCLE

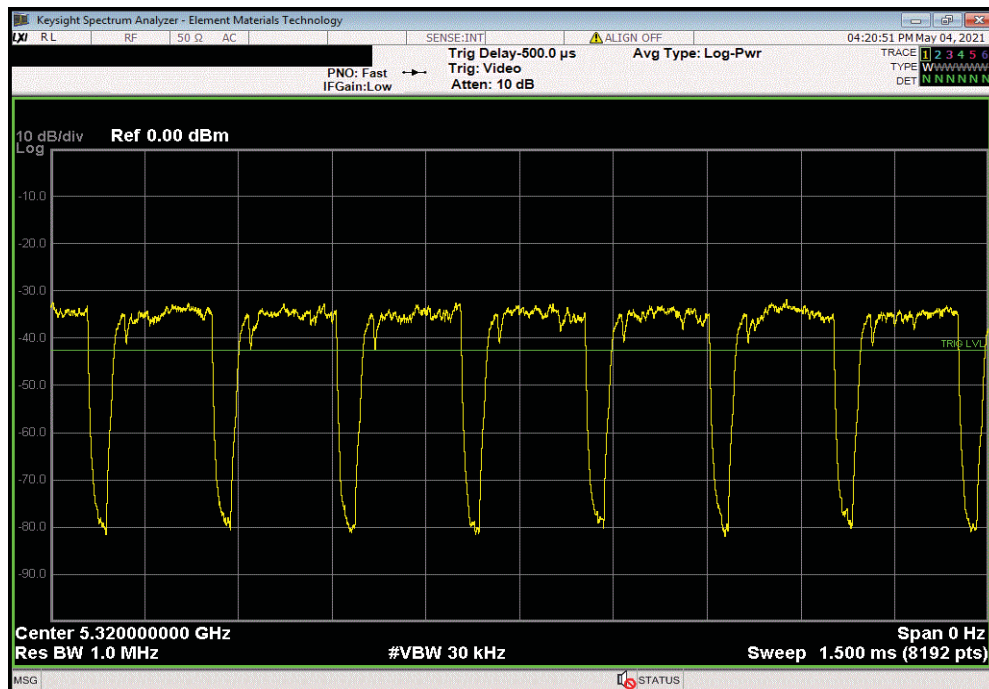


XMIT 2020.12.30.0

5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.16	0.20	1	79.03	N/A	N/A	



5250-5350 MHz Band, High Channel, Ch 64 - 5320 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

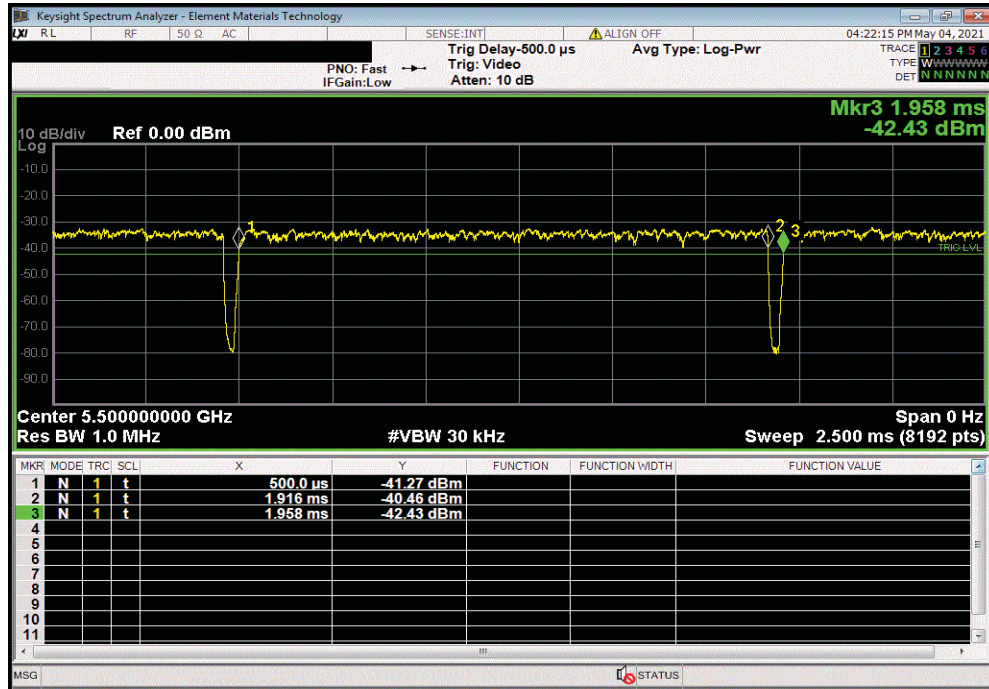


DUTY CYCLE

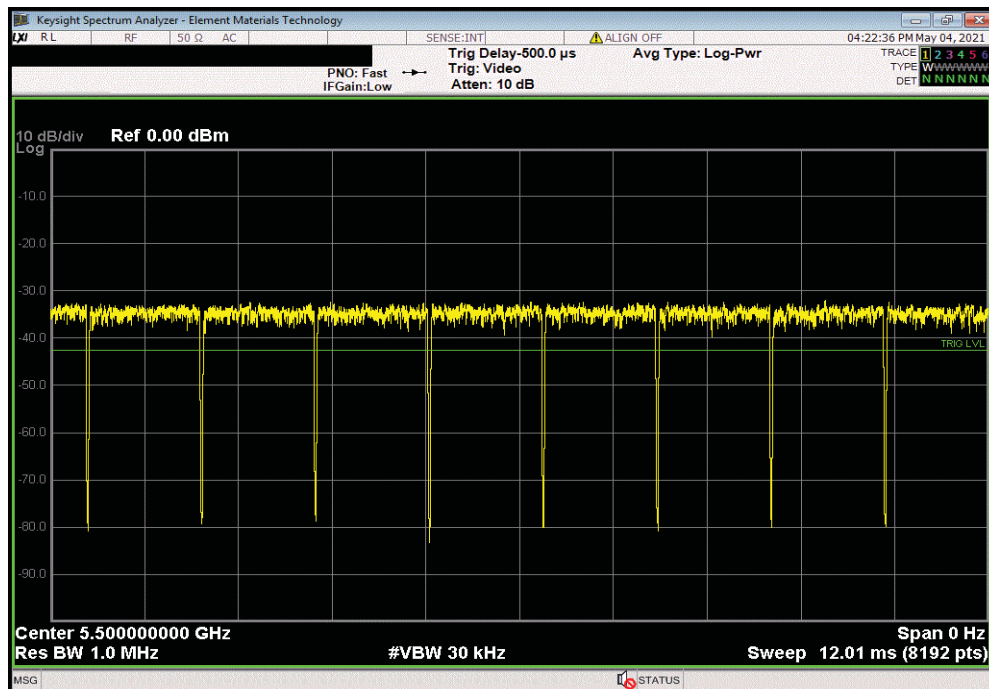


XMIT 2020.12.30.0

5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	97.12	N/A	N/A	



5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

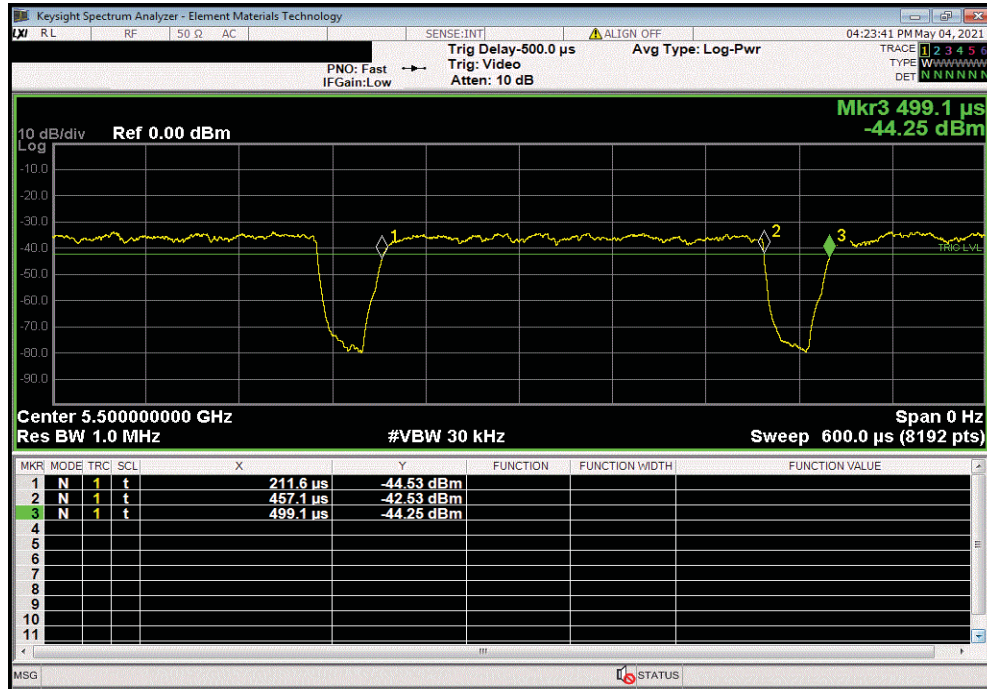


DUTY CYCLE

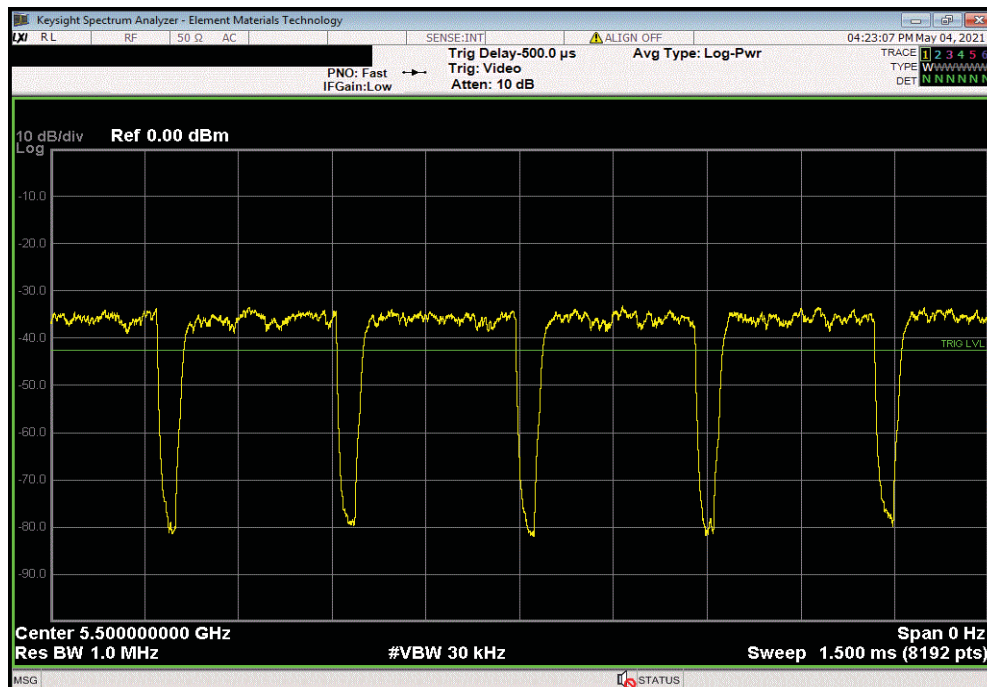


XMIT 2020.12.30.0

5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.25	0.29	1	85.39	N/A	N/A	



5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	4	N/A	N/A	N/A	

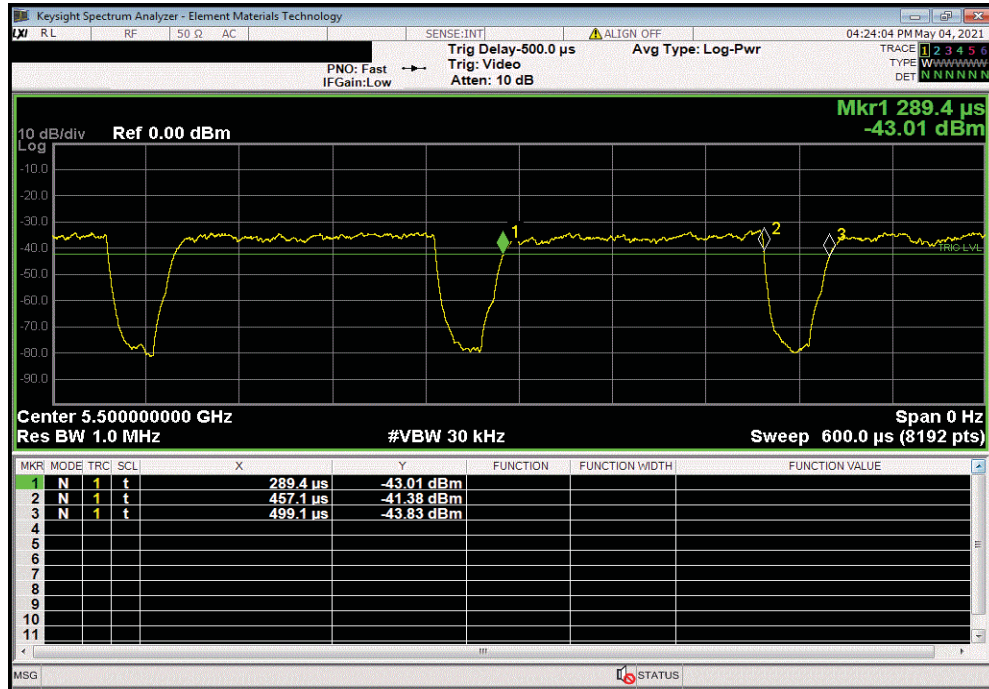


DUTY CYCLE

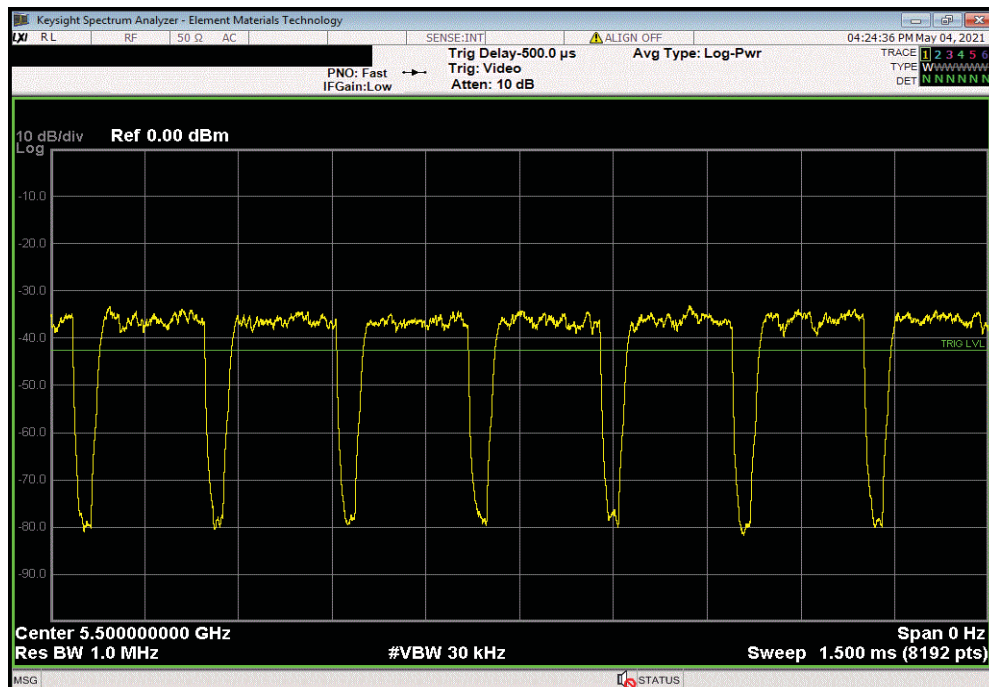


XMIT 2020.12.30.0

5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	79.97	N/A	N/A	



5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

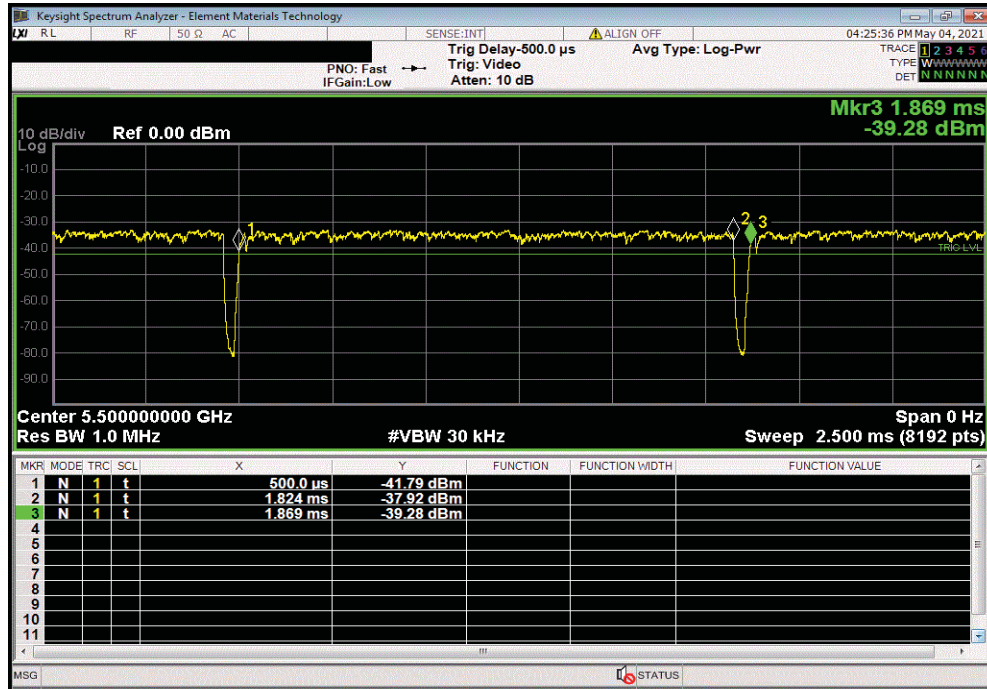


DUTY CYCLE

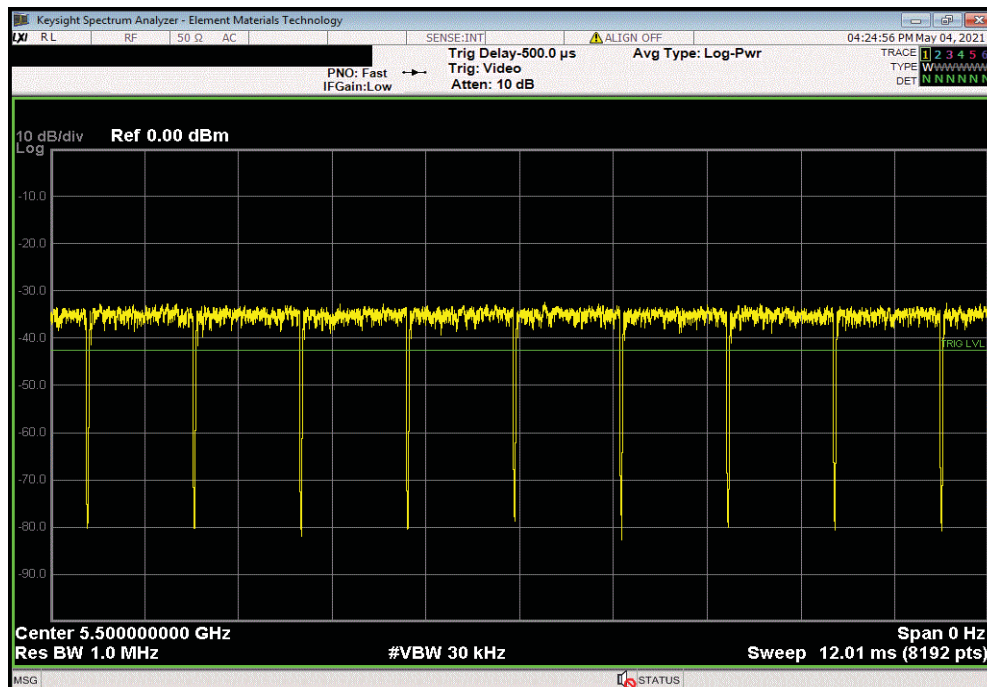


XMIT 2020.12.30.0

5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.32	1.37	1	96.71	N/A	N/A	



5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	

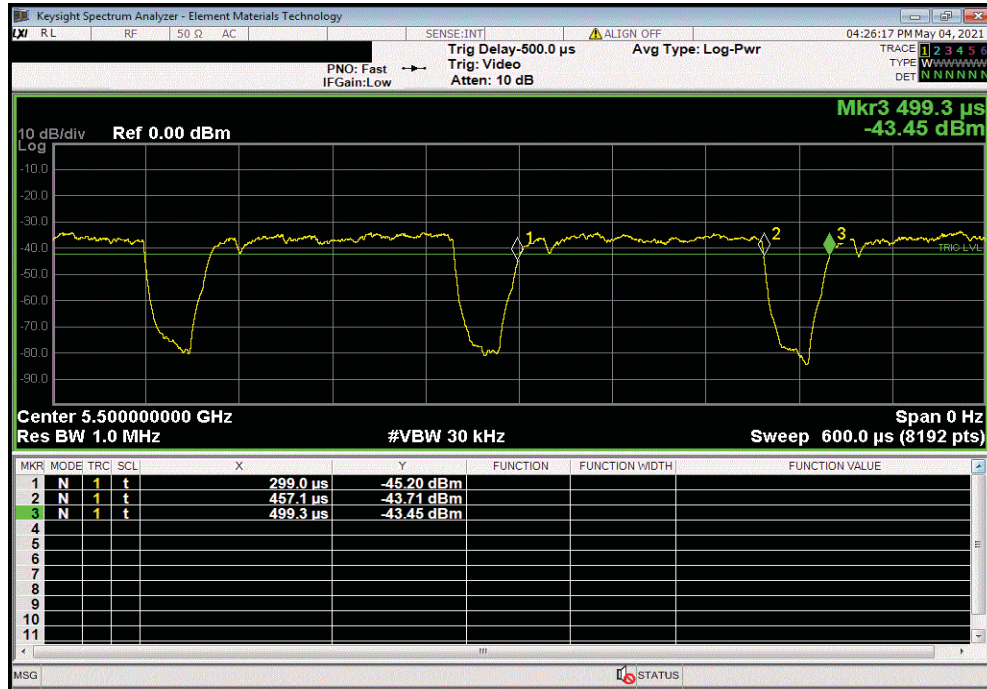


DUTY CYCLE

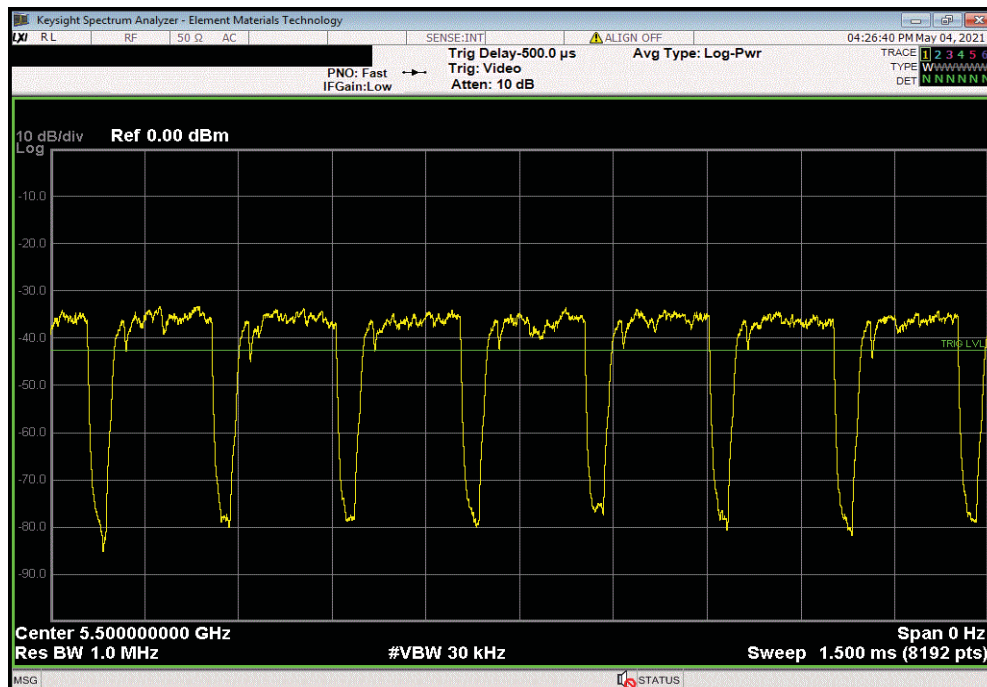


XMIT 2020.12.30.0

5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.16	0.20	1	78.93	N/A	N/A	



5470-5725 MHz Band, Low Channel, Ch 100 - 5500 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

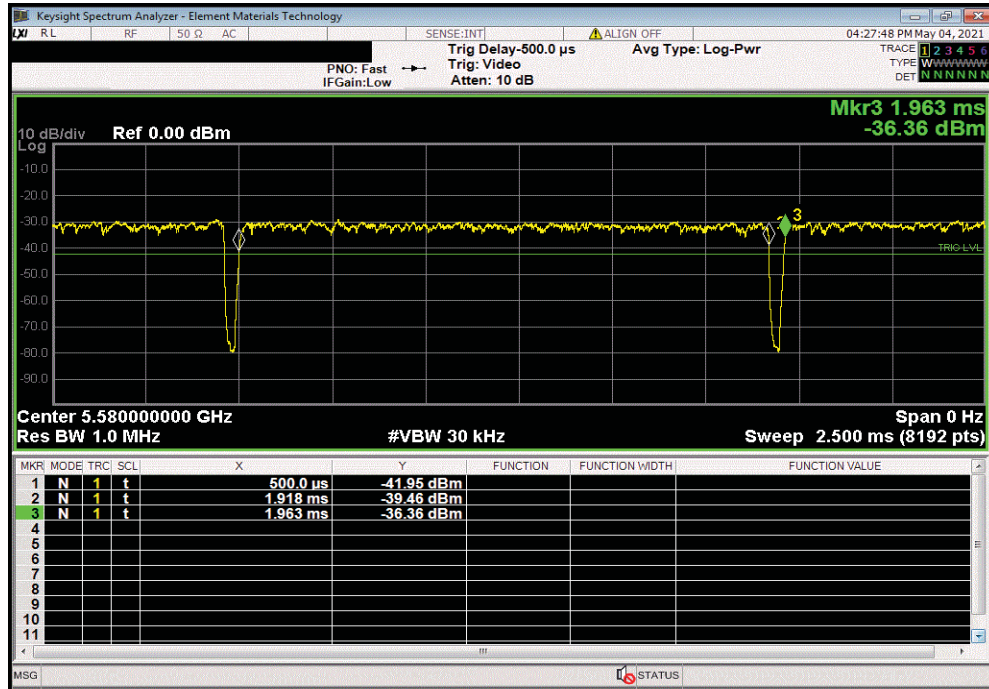


DUTY CYCLE

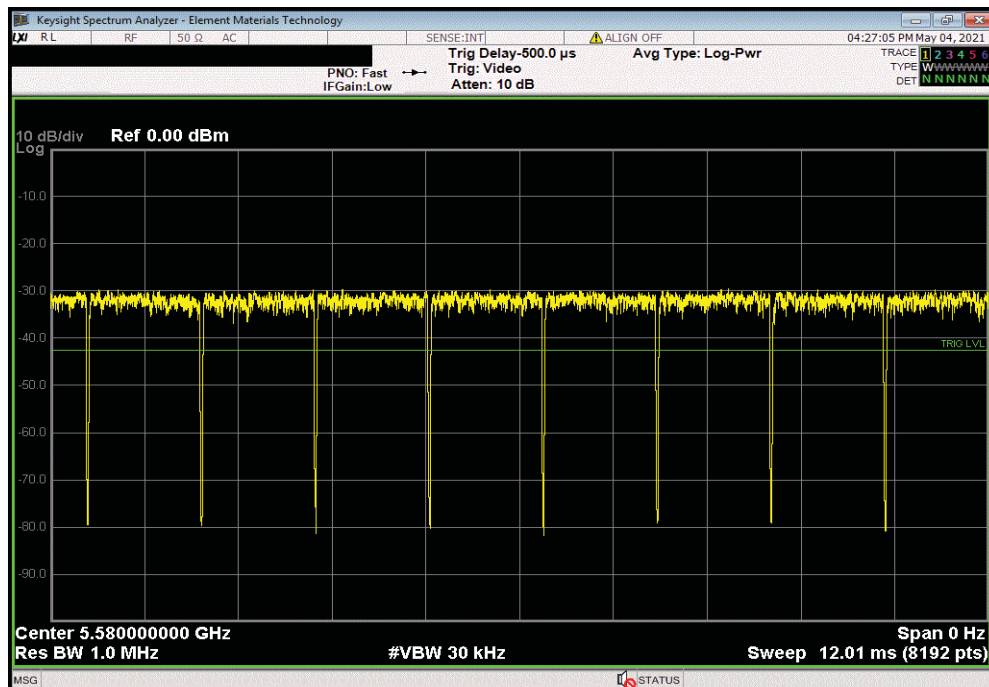


XMIT 2020.12.30.0

5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	96.92	N/A	N/A	



5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

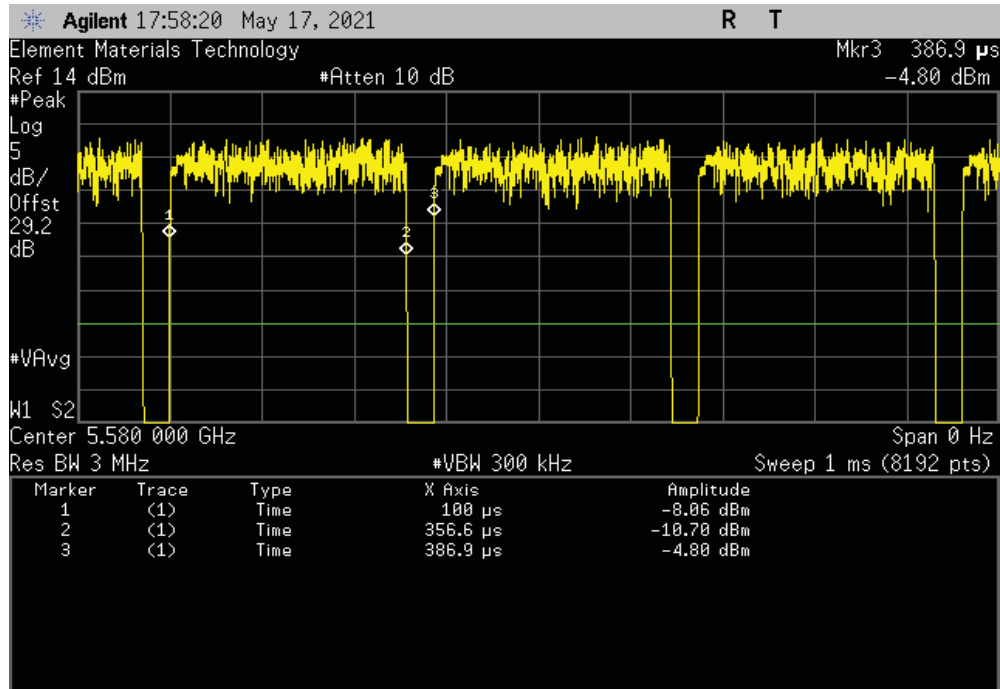


DUTY CYCLE

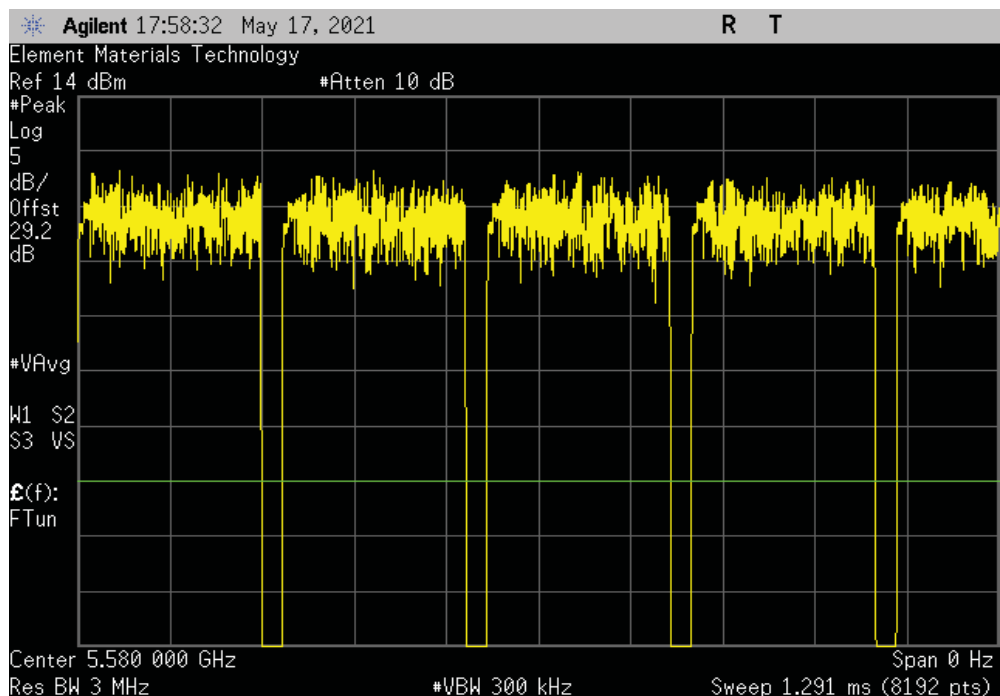


XMIT 2020.12.30.0

5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.2566	0.2869	1	89.4	N/A	N/A	



5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

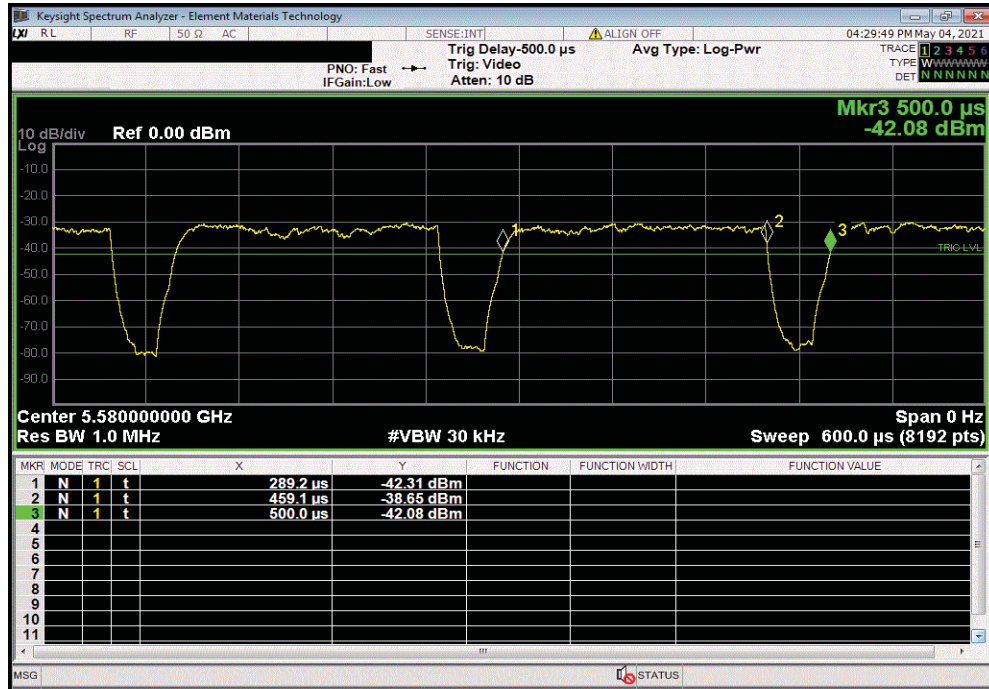


DUTY CYCLE

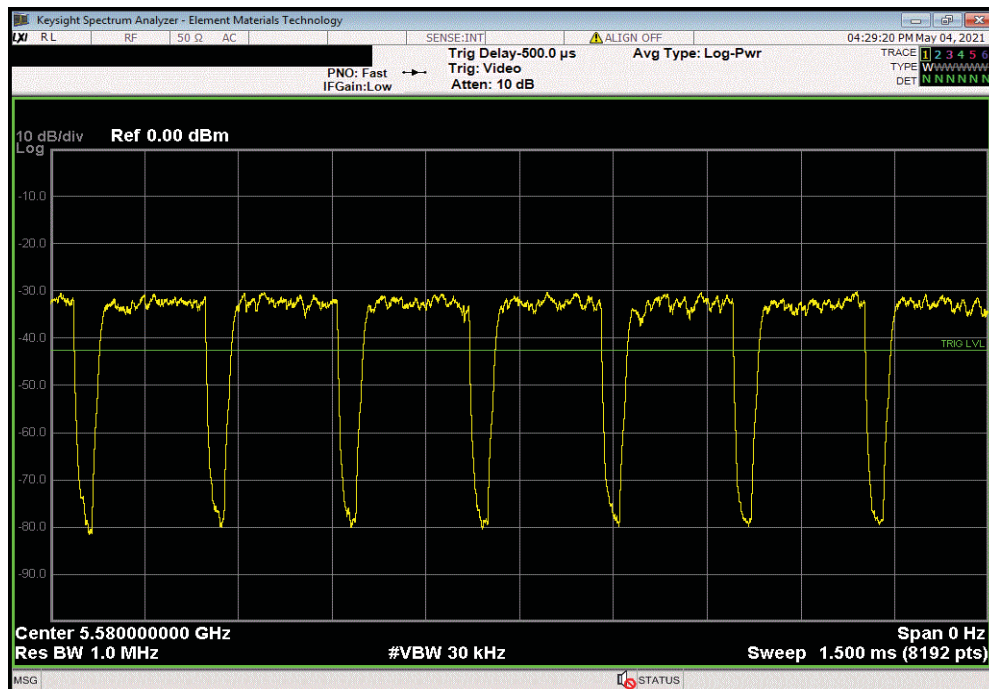


XMIT 2020.12.30.0

5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	80.60	N/A	N/A	



5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

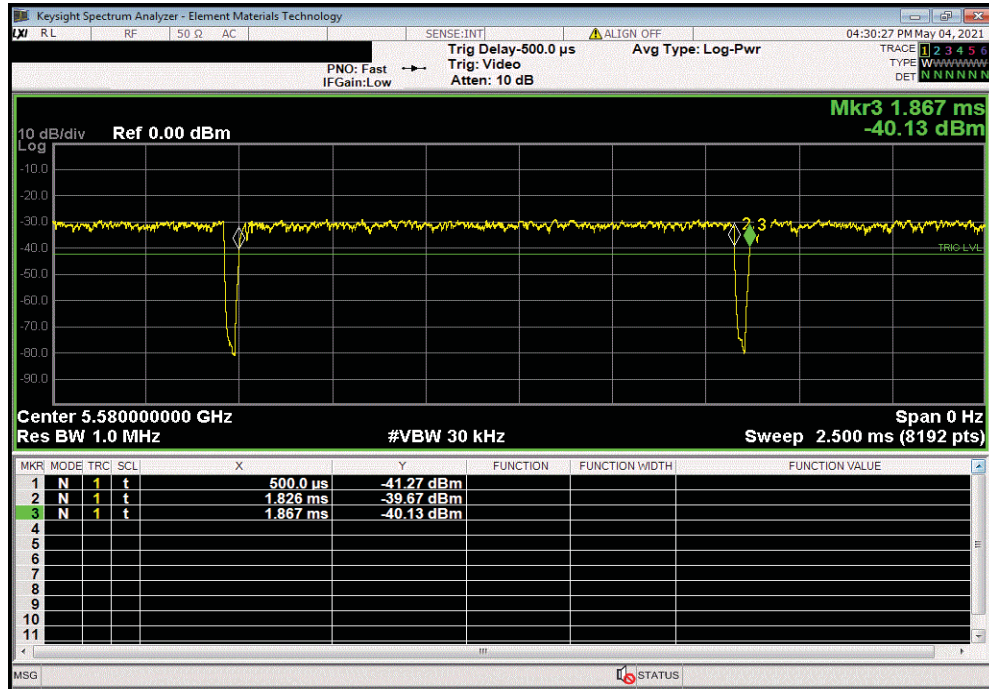


DUTY CYCLE

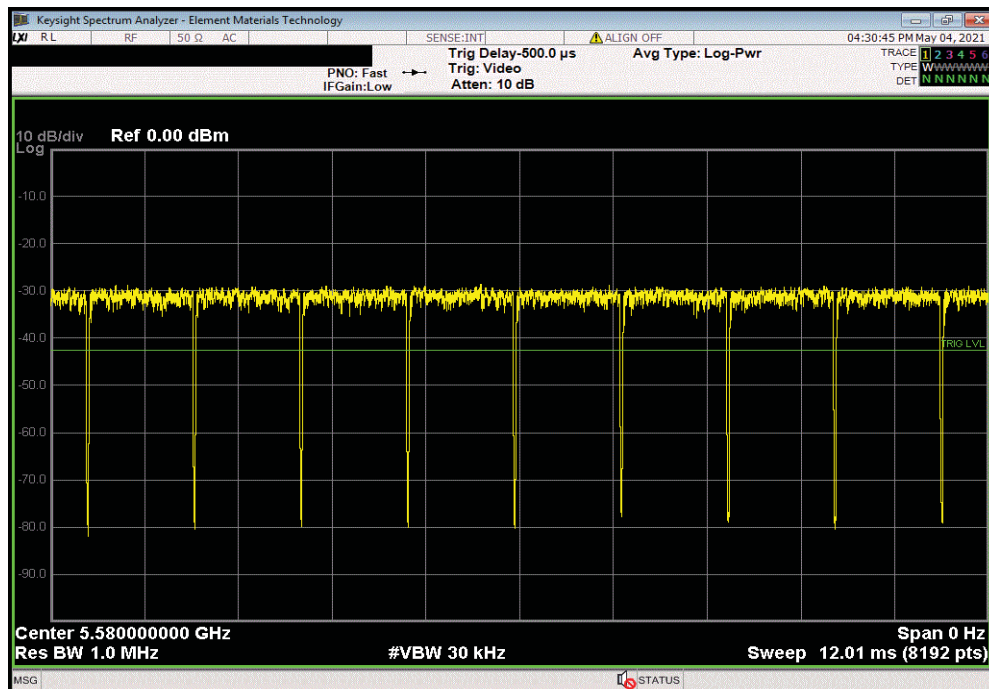


XMIT 2020.12.30.0

5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.33	1.37	1	97.00	N/A	N/A	



5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	

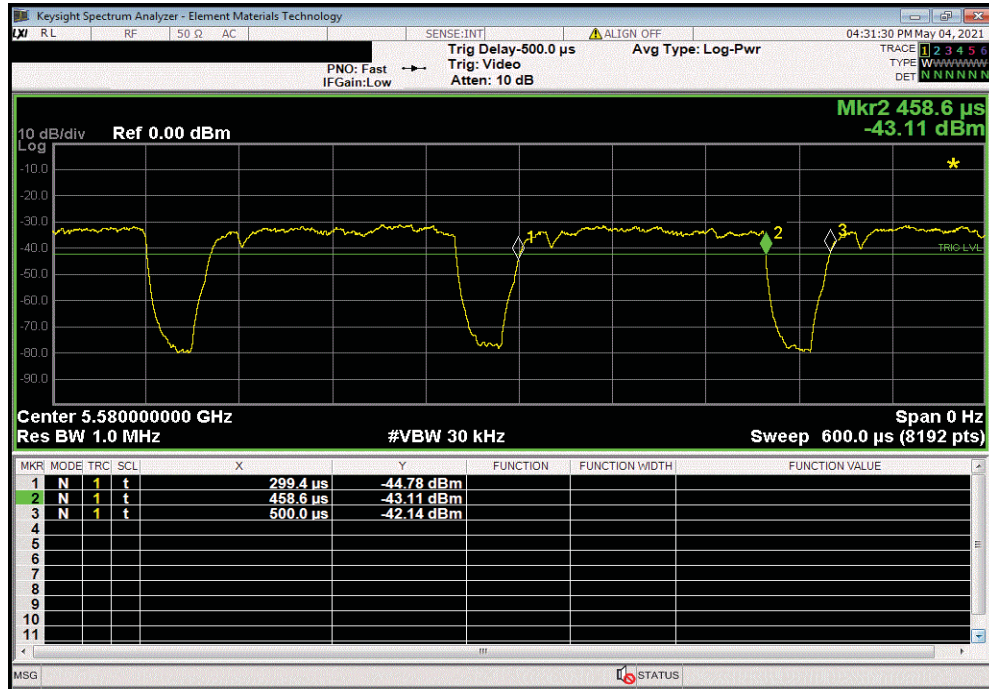


DUTY CYCLE

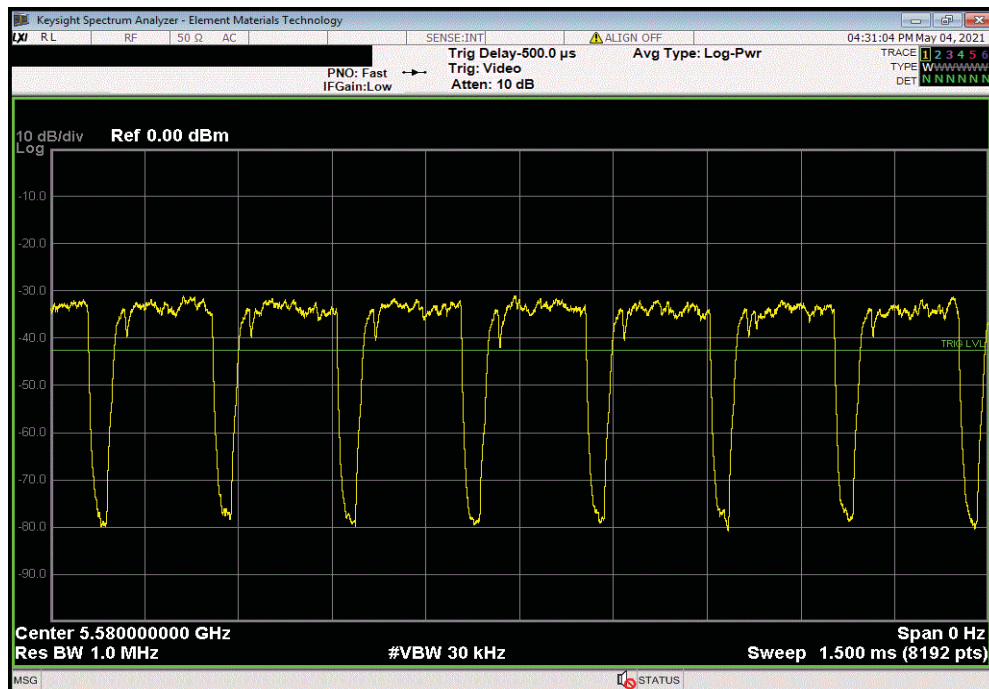


XMIT 2020.12.30.0

5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.16	0.20	1	79.36	N/A	N/A	



5470-5725 MHz Band, Mid Channel, Ch 116 - 5580 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

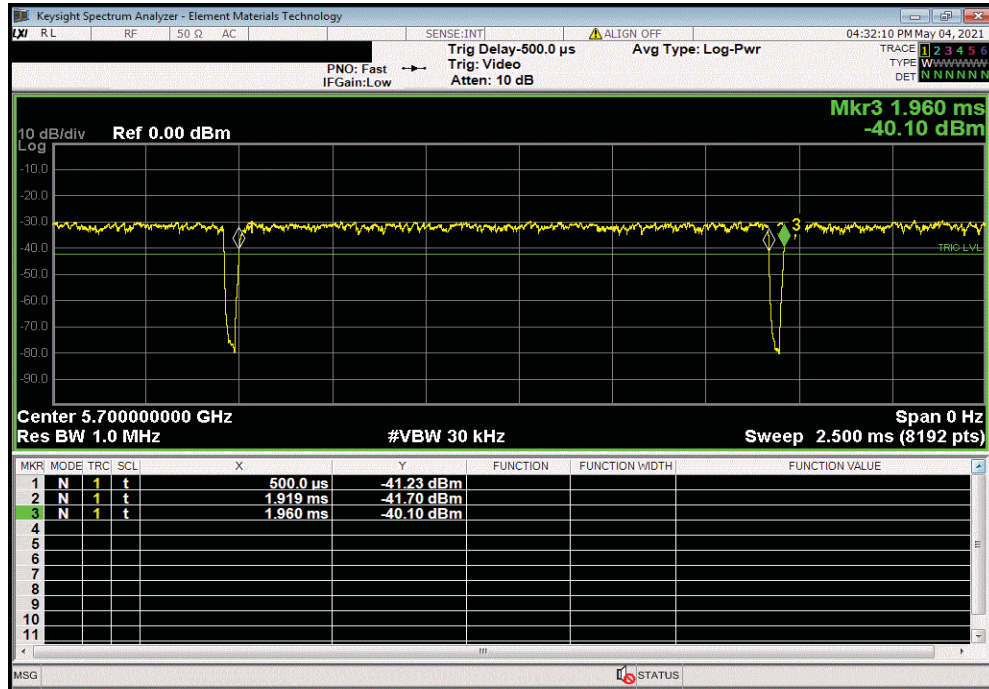


DUTY CYCLE

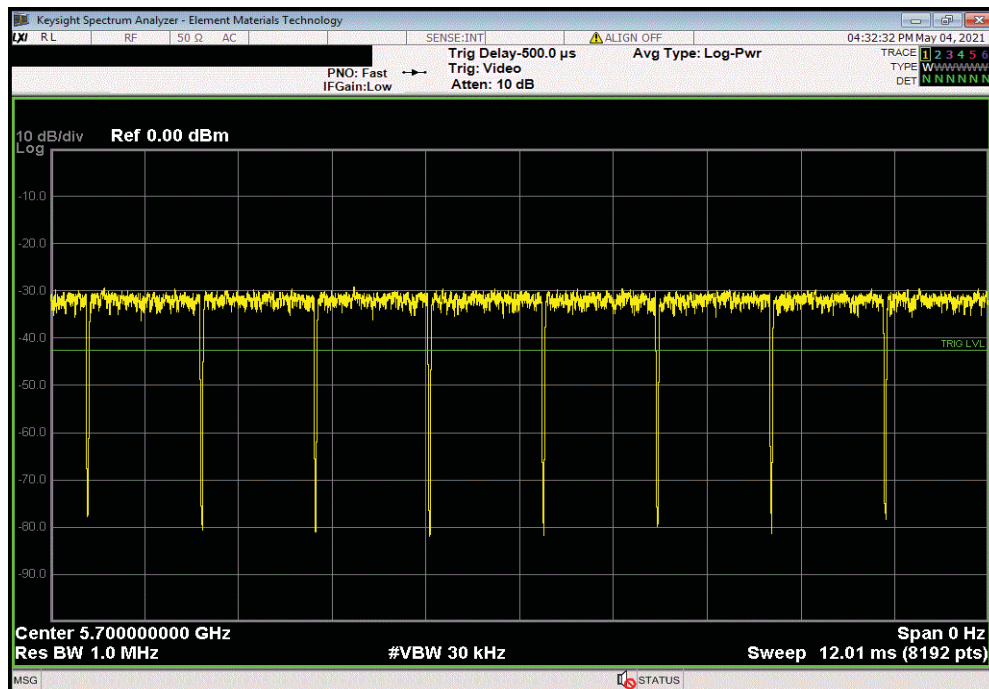


XMIT 2020.12.30.0

5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	97.19	N/A	N/A	



5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

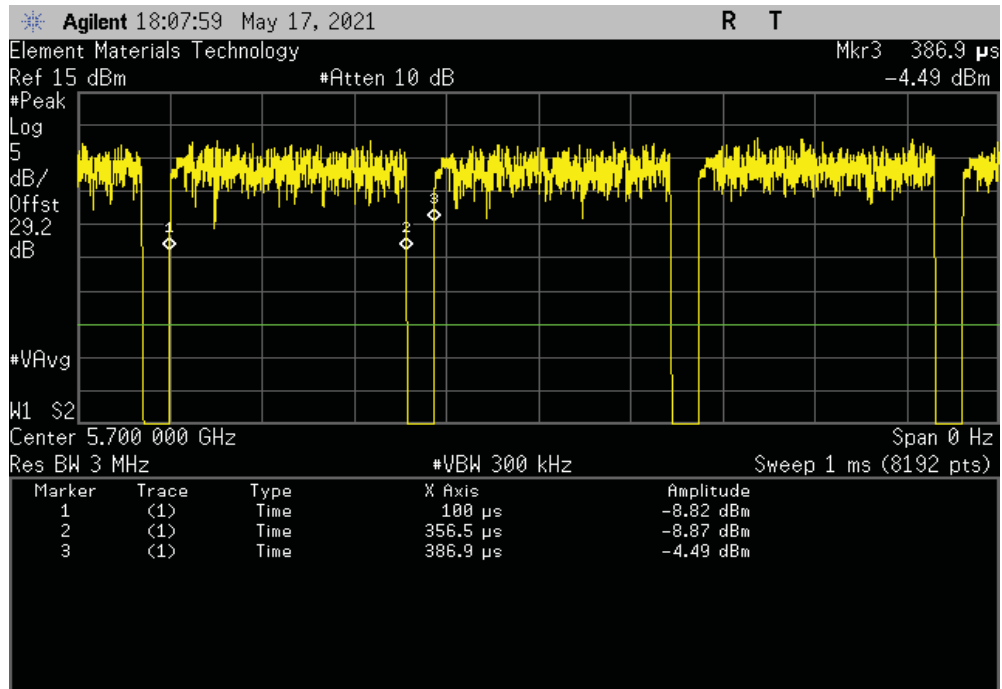


DUTY CYCLE

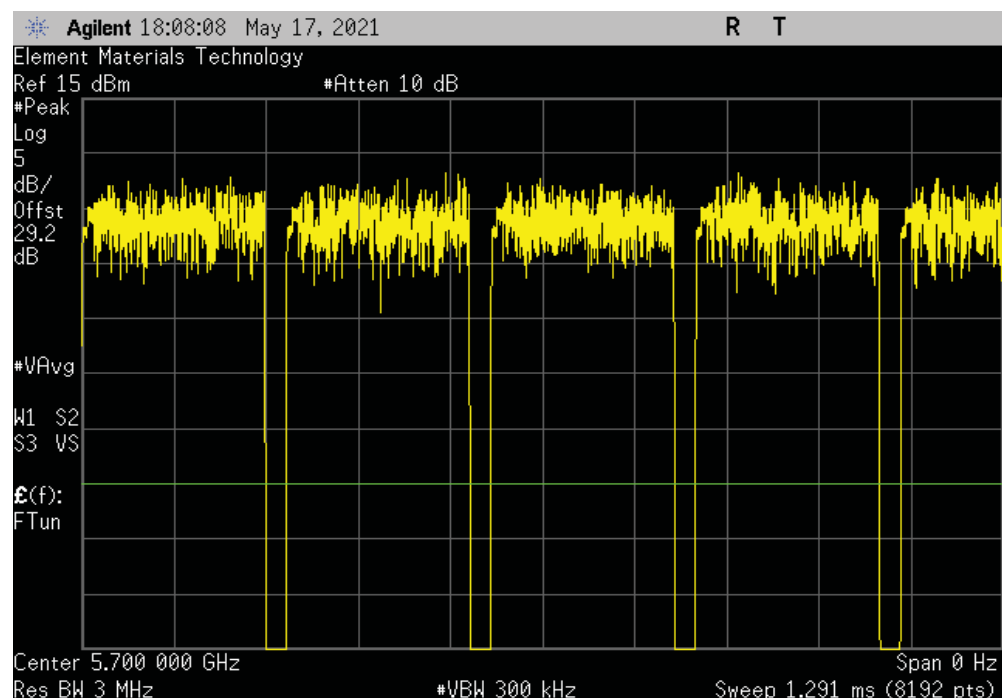


XMIT 2020.12.30.0

5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.2565	0.2869	1	89.4	N/A	N/A	



5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

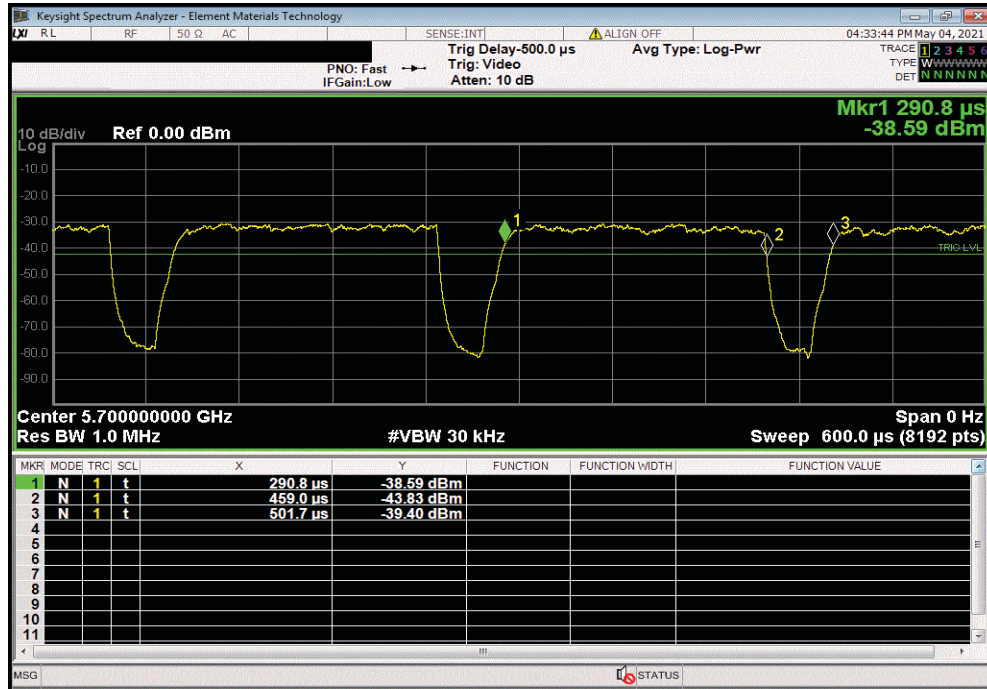


DUTY CYCLE

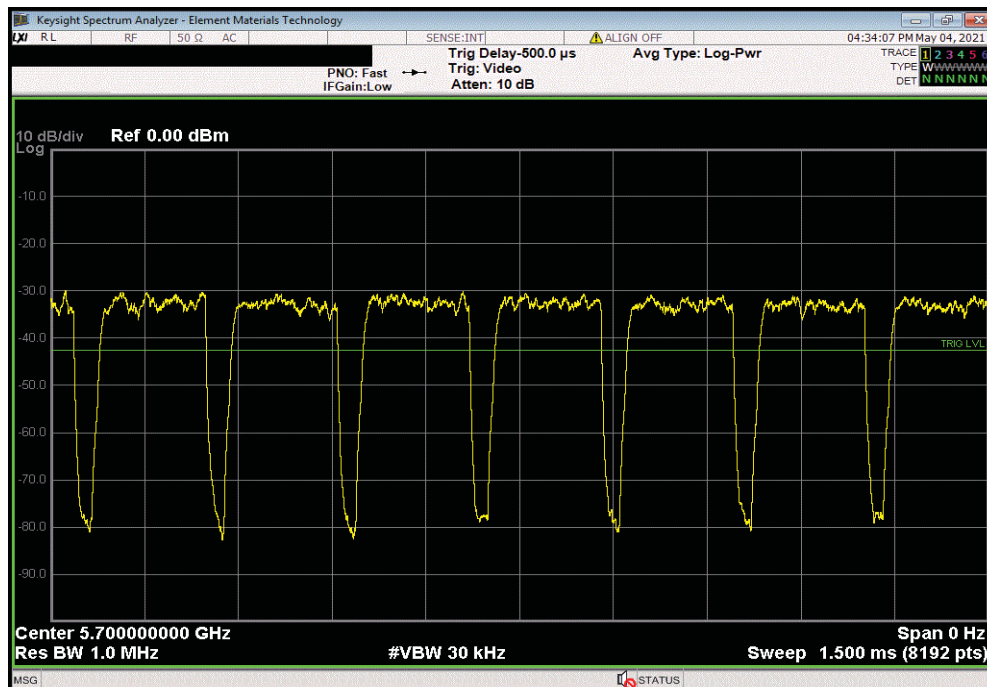


XMIT 2020.12.30.0

5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	79.75	N/A	N/A	



5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

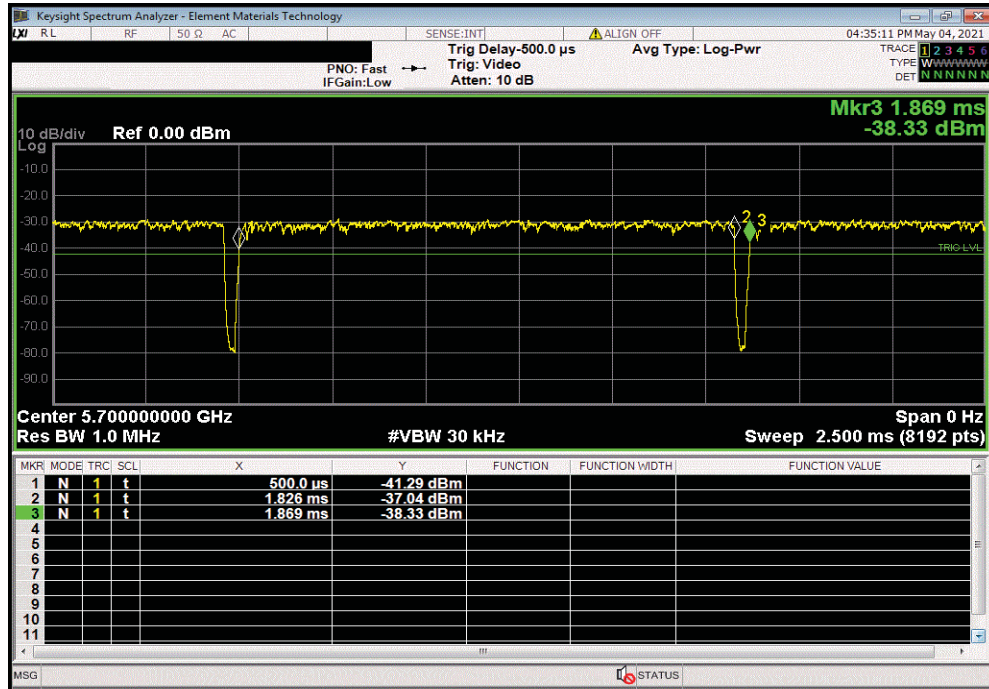


DUTY CYCLE

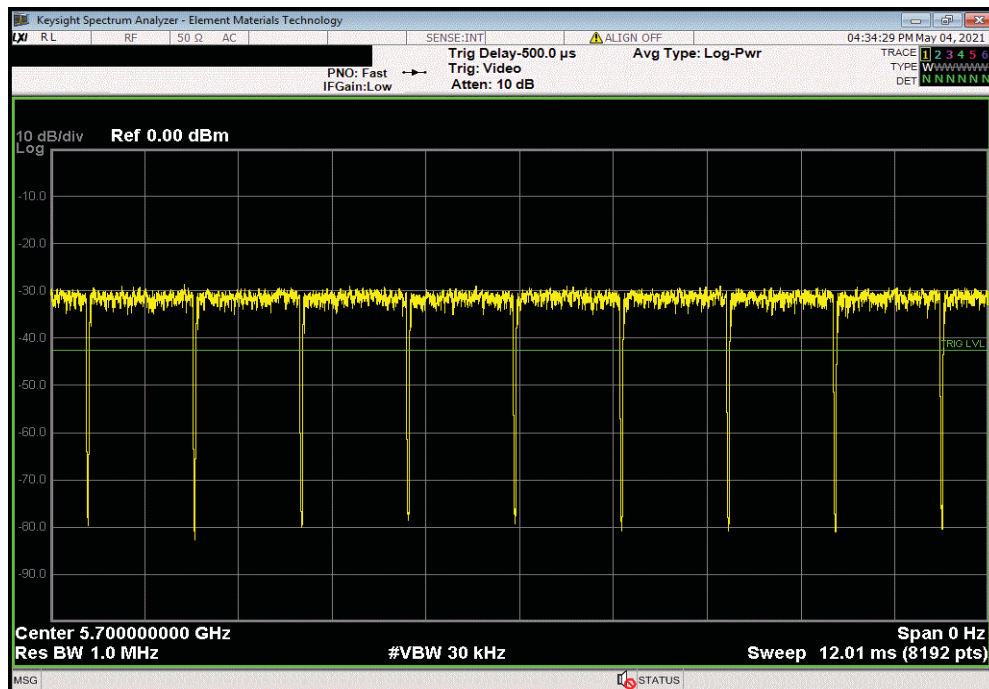


XMIT 2020.12.30.0

5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.33	1.37	1	96.86	N/A	N/A	



5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	

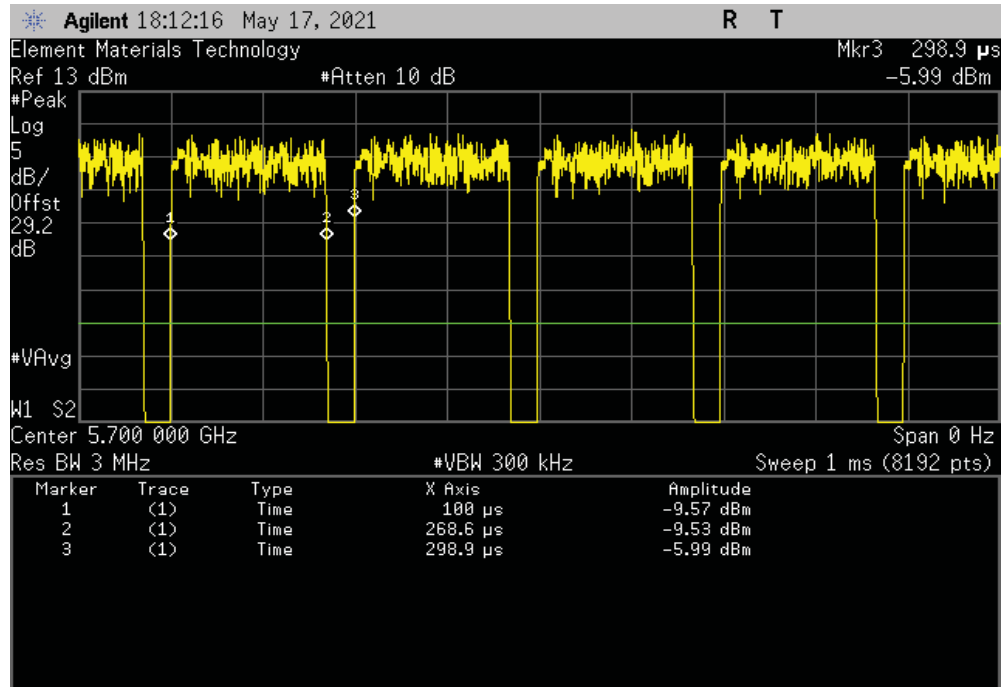


DUTY CYCLE

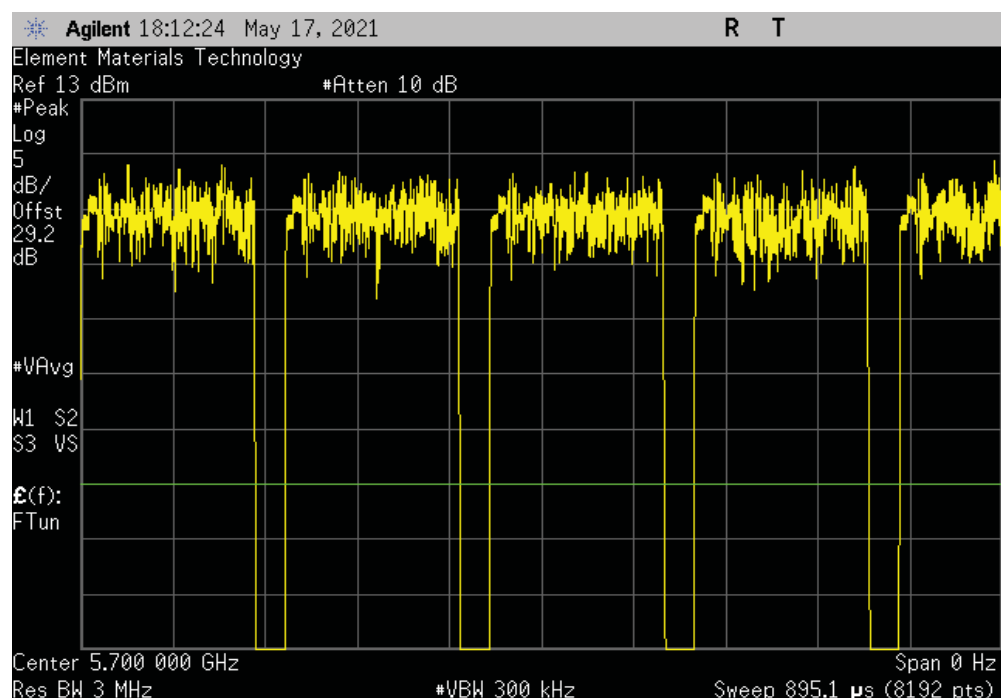


XMIT 2020.12.30.0

5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.1686	0.1989	1	84.8	N/A	N/A	



5470-5725 MHz Band, High Channel, Ch 140 - 5700 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	5	N/A	N/A	N/A	

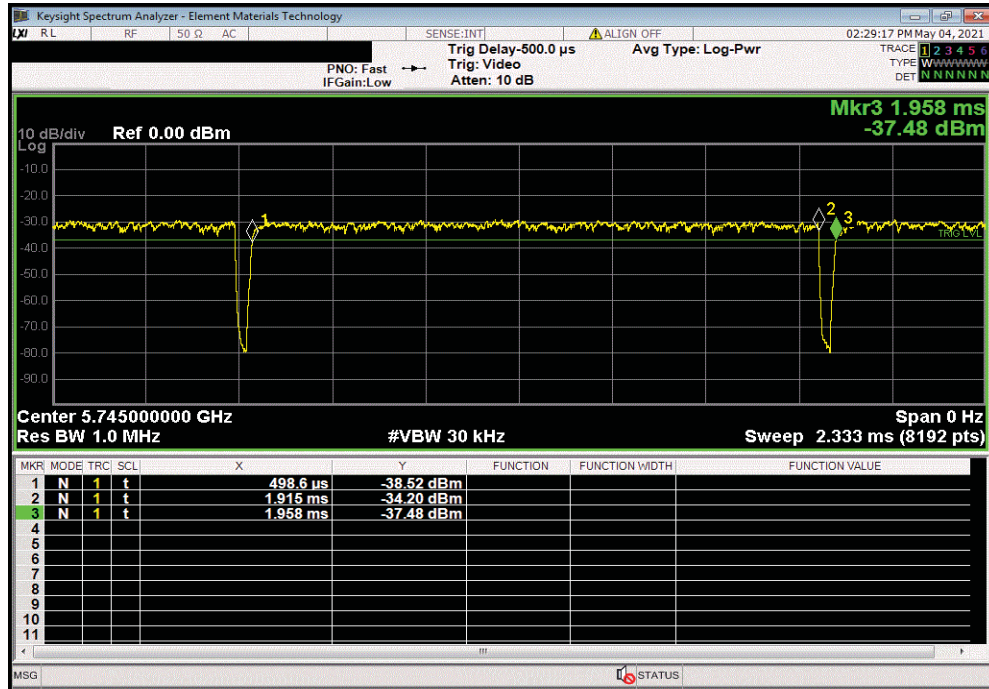


DUTY CYCLE

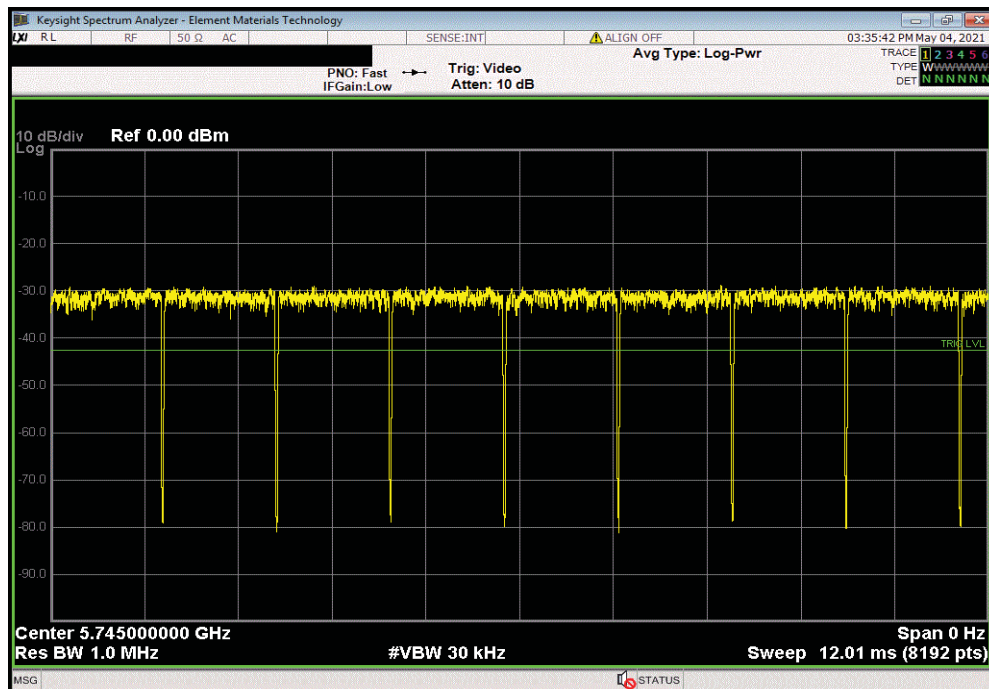


XMIT 2020.12.30.0

5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	97.05	N/A	N/A	



5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

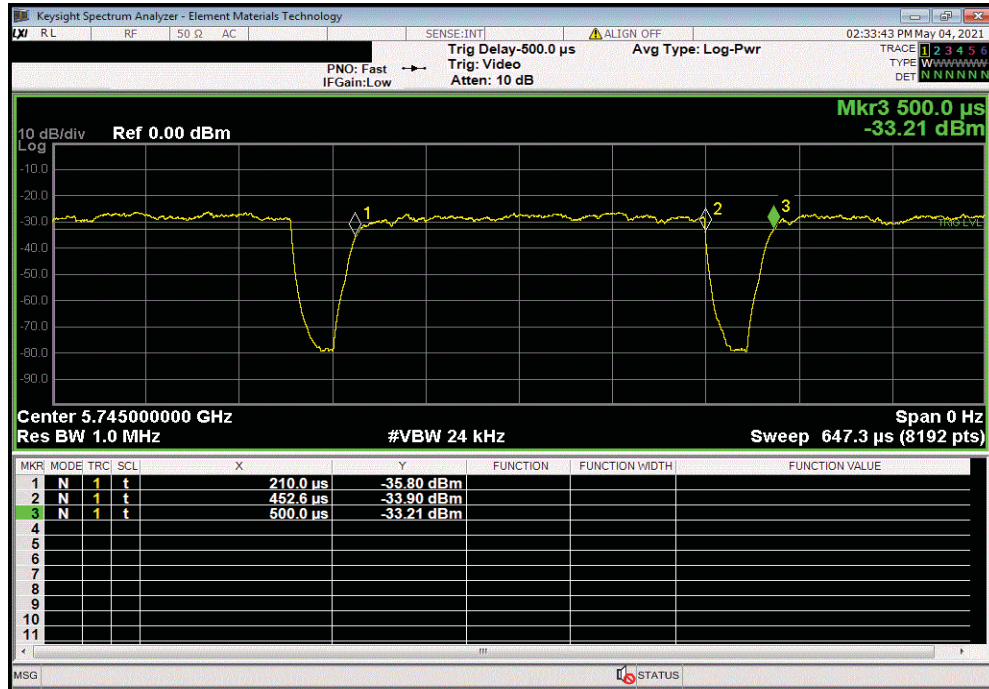


DUTY CYCLE

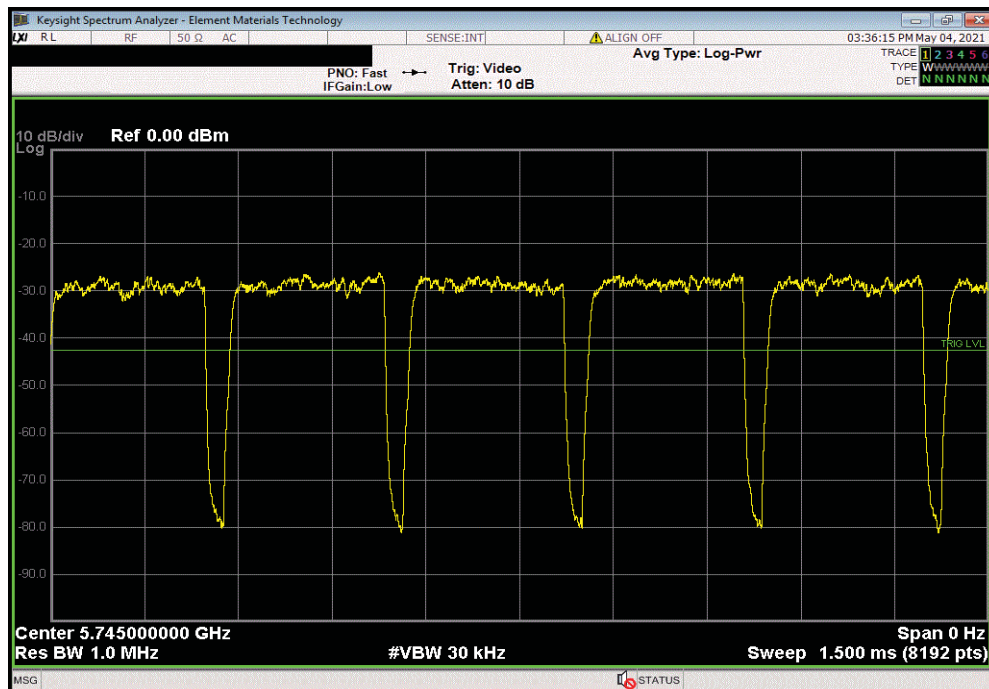


XMIT 2020.12.30.0

5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.24	0.29	1	83.66	N/A	N/A	



5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	4	N/A	N/A	N/A	

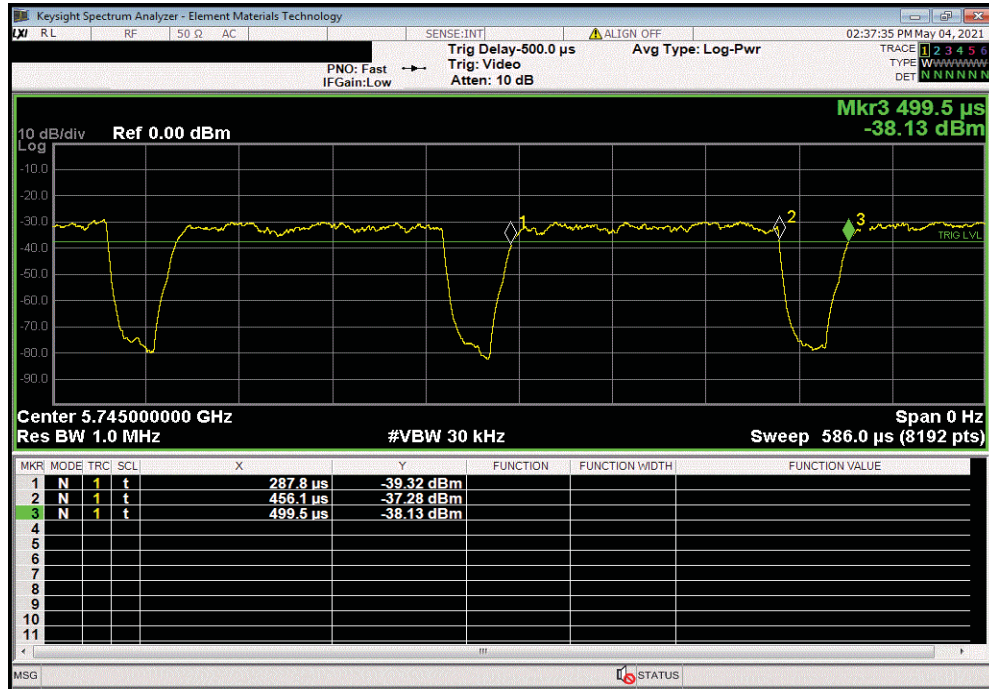


DUTY CYCLE

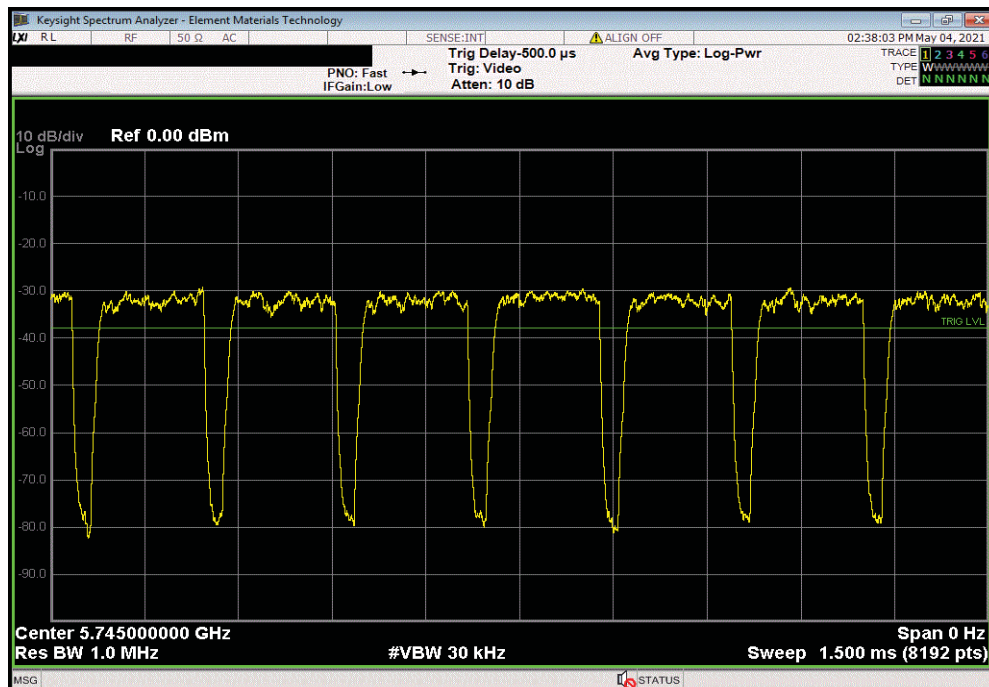


XMIT 2020.12.30.0

5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	79.50	N/A	N/A	



5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

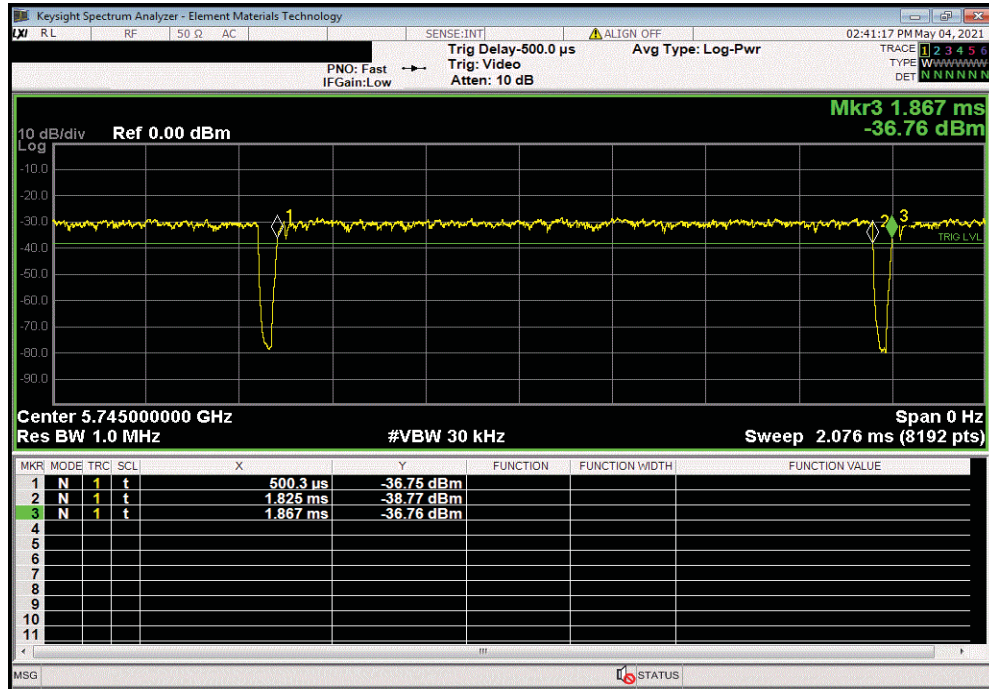


DUTY CYCLE

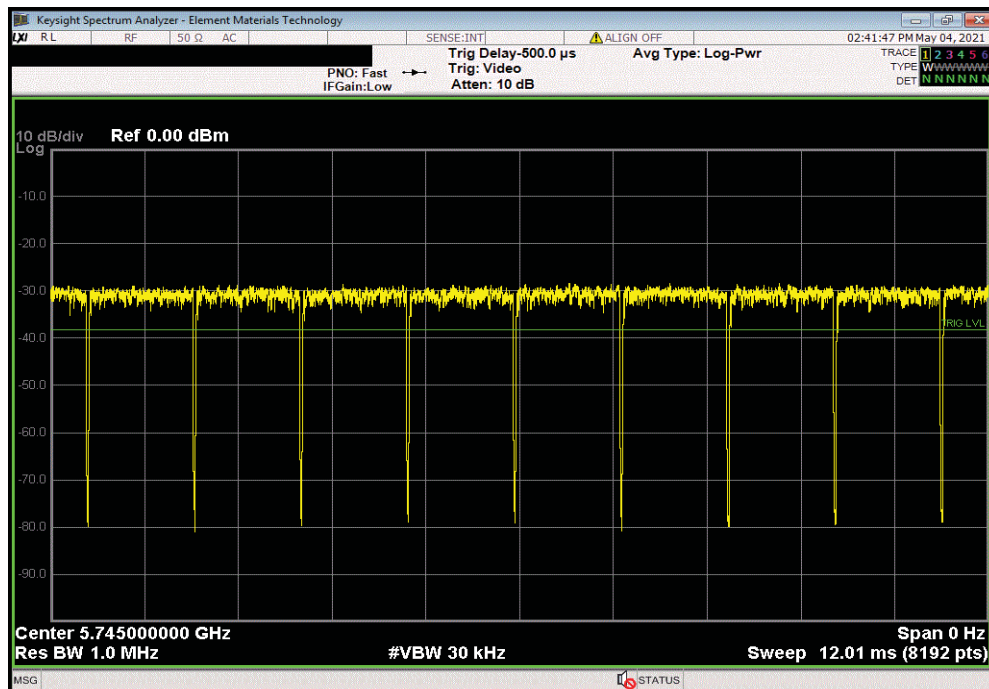


XMIT 2020.12.30.0

5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.32	1.37	1	96.93	N/A	N/A	



5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	



DUTY CYCLE

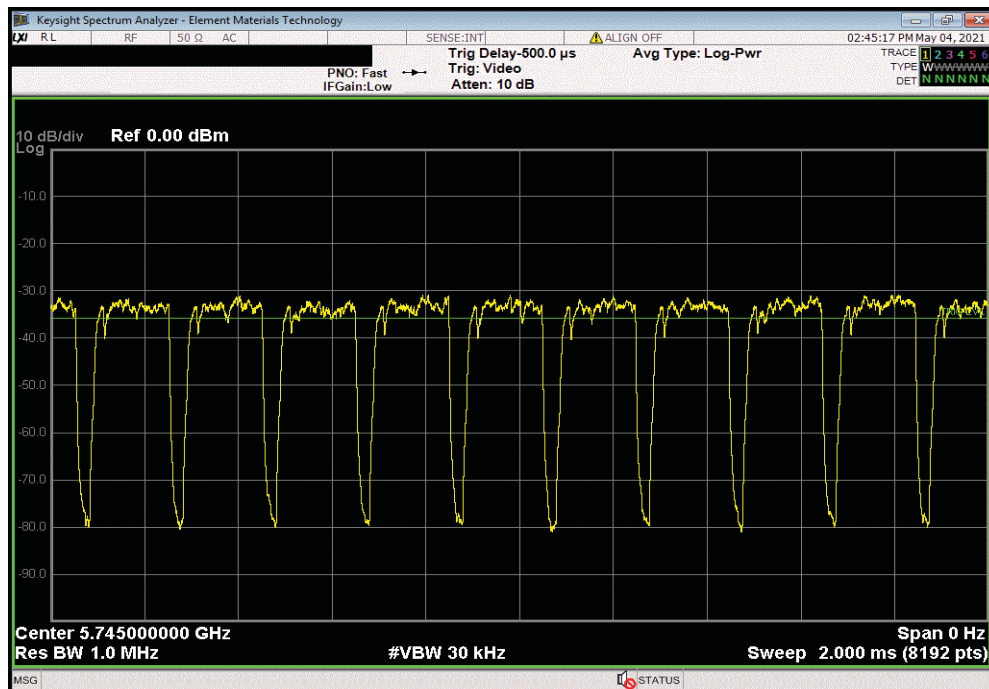


XMIT 2020.12.30.0

5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.15	0.20	1	78.38	N/A	N/A	



5725-5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	9	N/A	N/A	N/A	

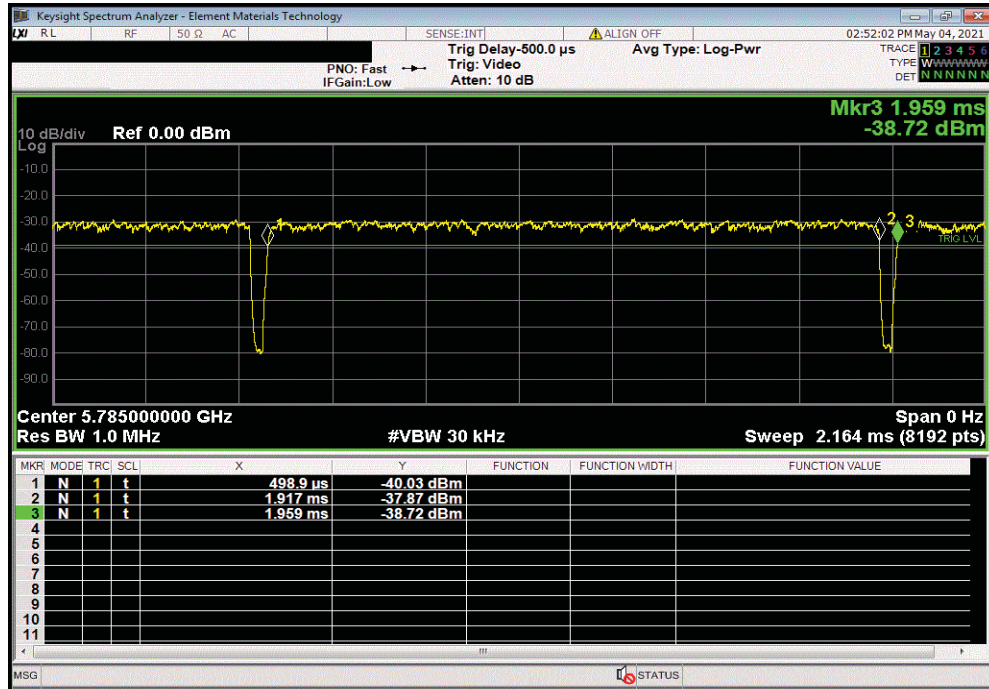


DUTY CYCLE

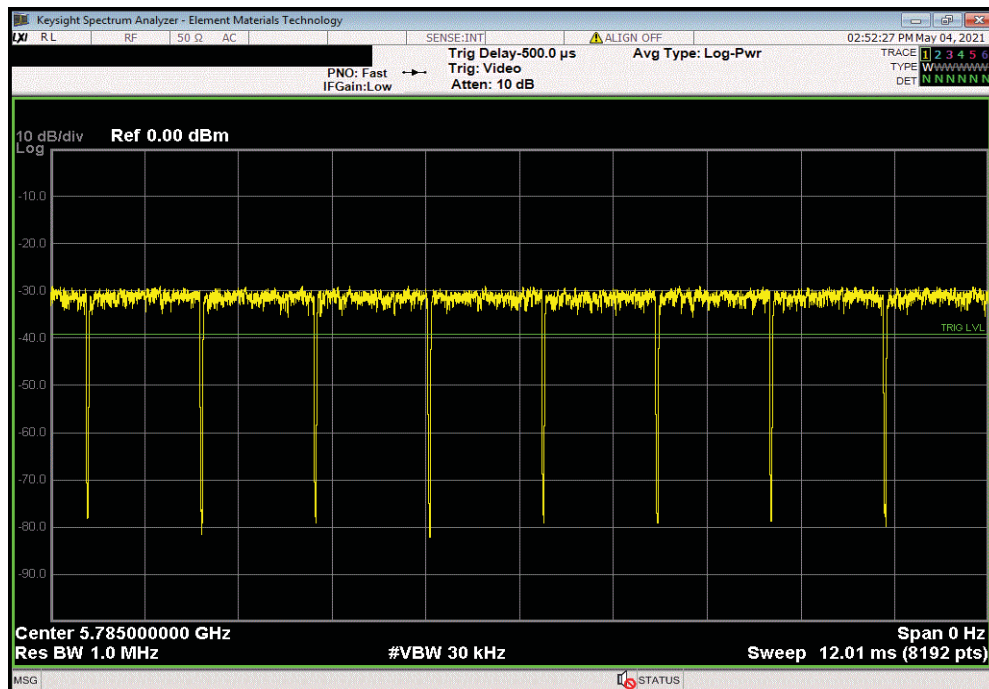


XMIT 2020.12.30.0

5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.42	1.46	1	97.12	N/A	N/A	



5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	

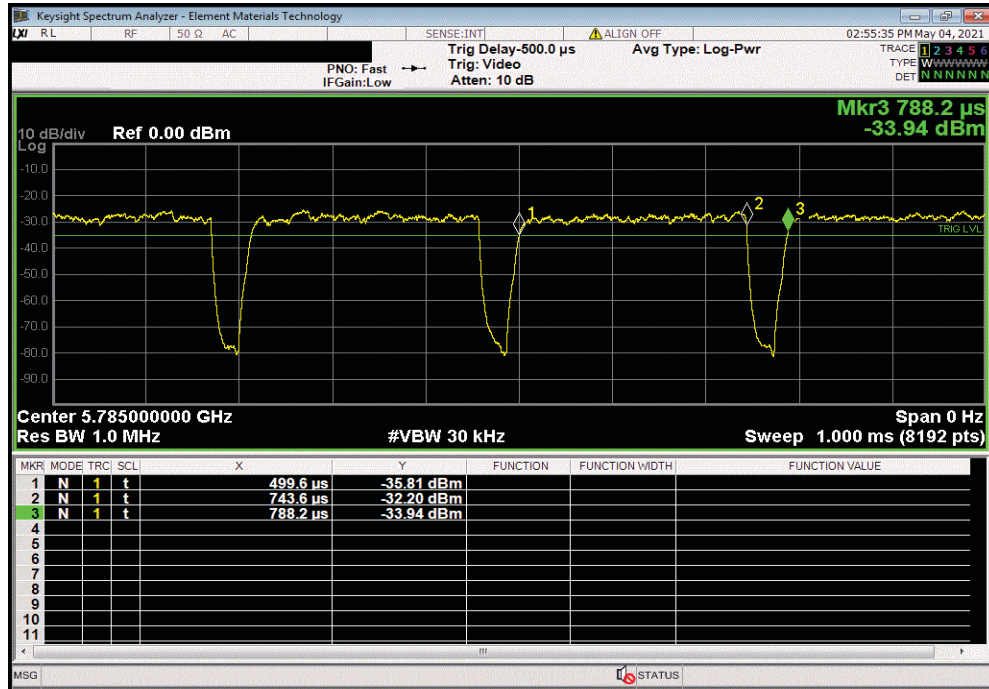


DUTY CYCLE

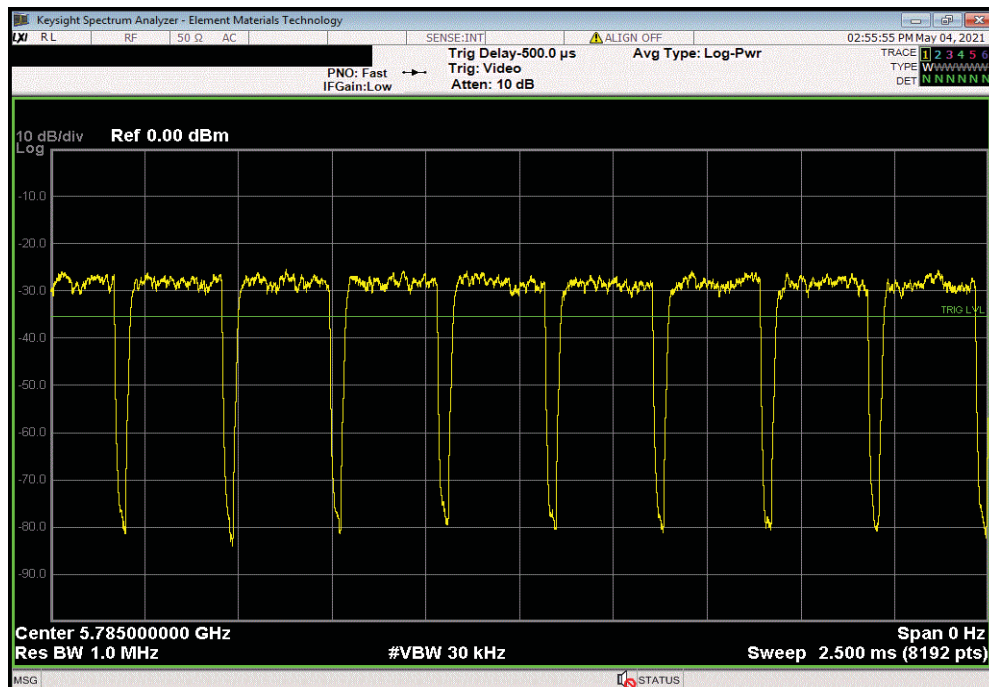


XMIT 2020.12.30.0

5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.24	0.29	1	84.55	N/A	N/A	



5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	

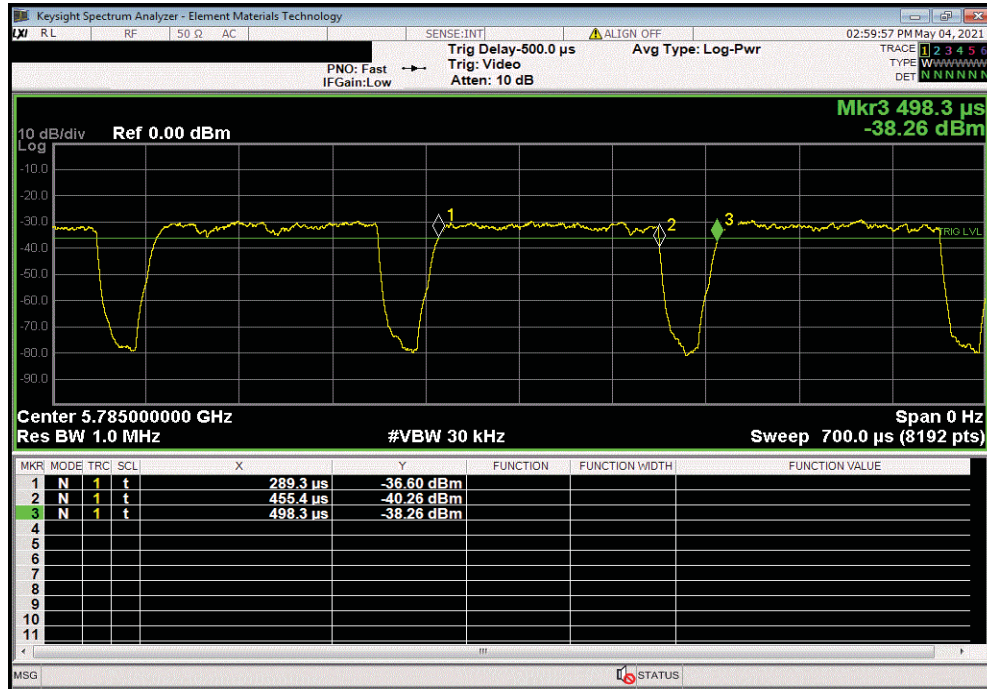


DUTY CYCLE

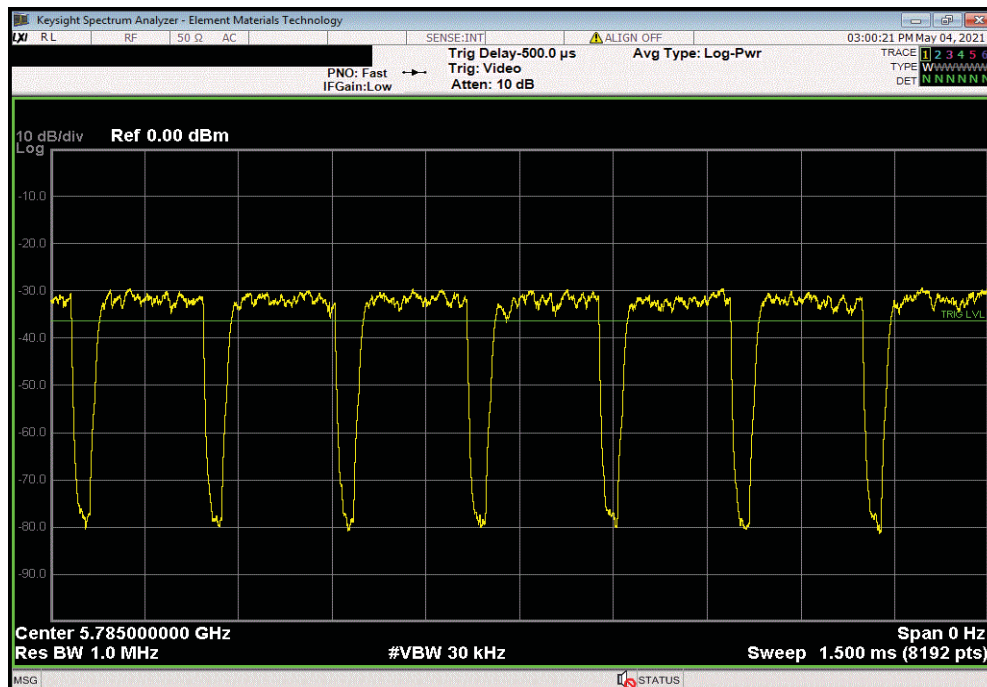


XMIT 2020.12.30.0

5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	79.47	N/A	N/A	



5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

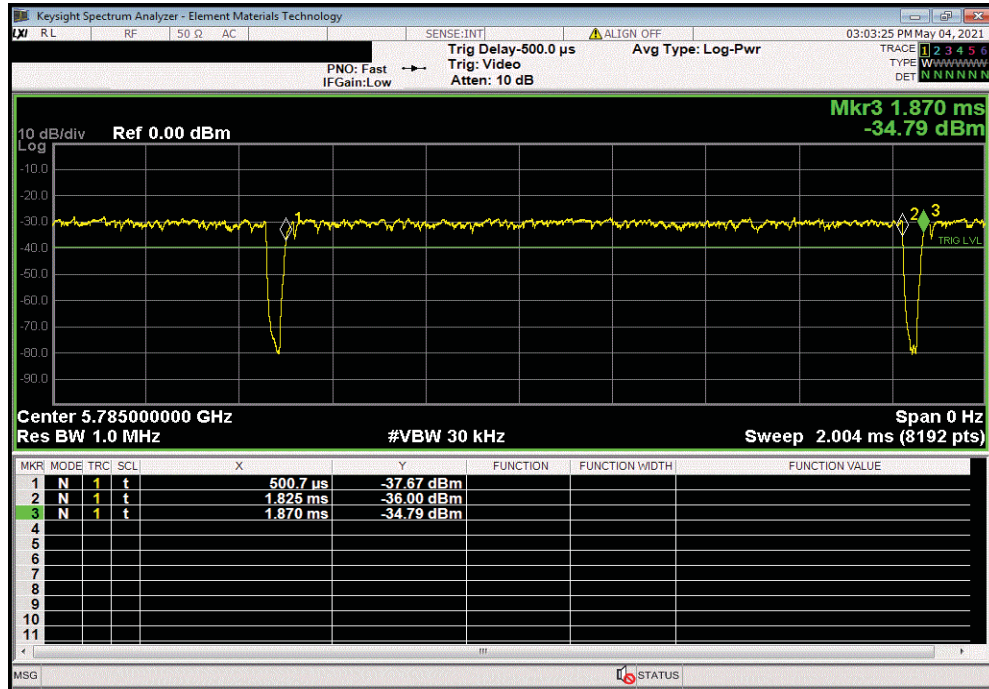


DUTY CYCLE

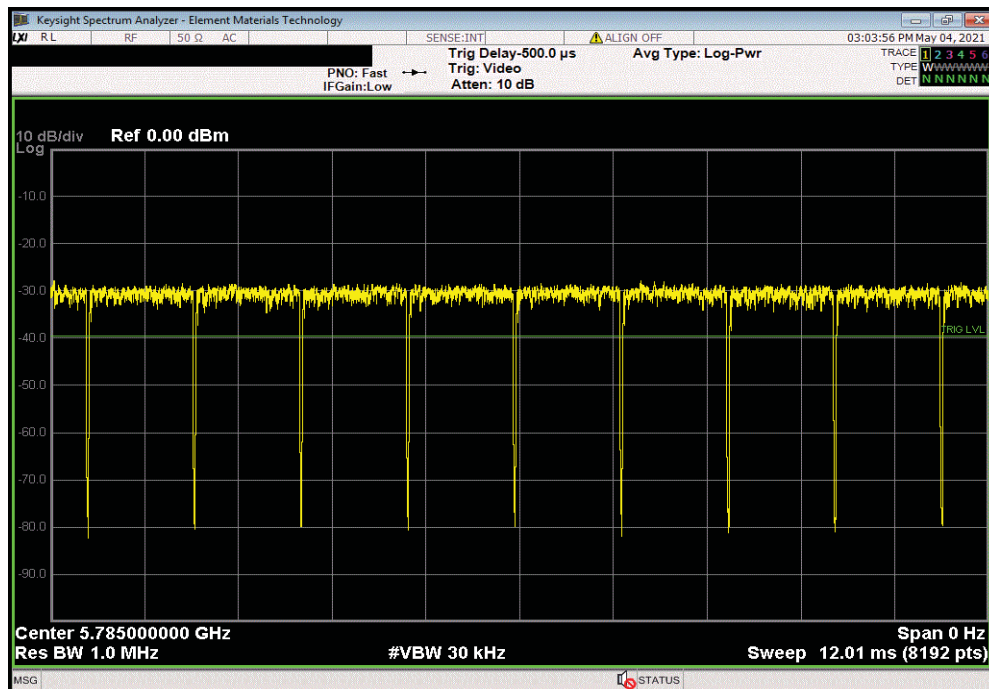


XMIT 2020.12.30.0

5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.32	1.37	1	96.71	N/A	N/A	



5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	

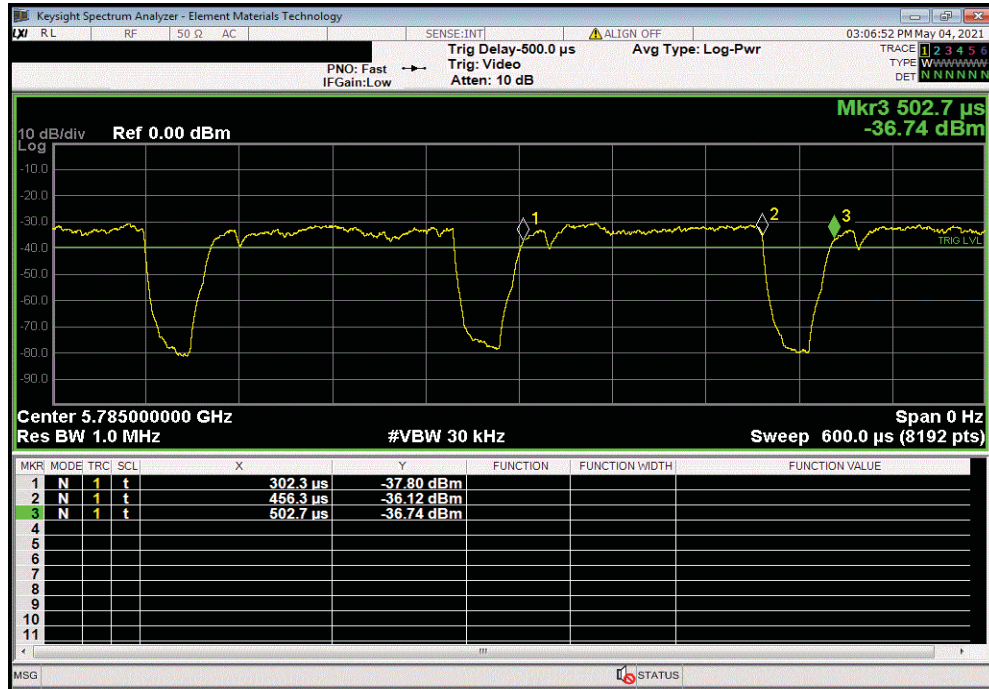


DUTY CYCLE

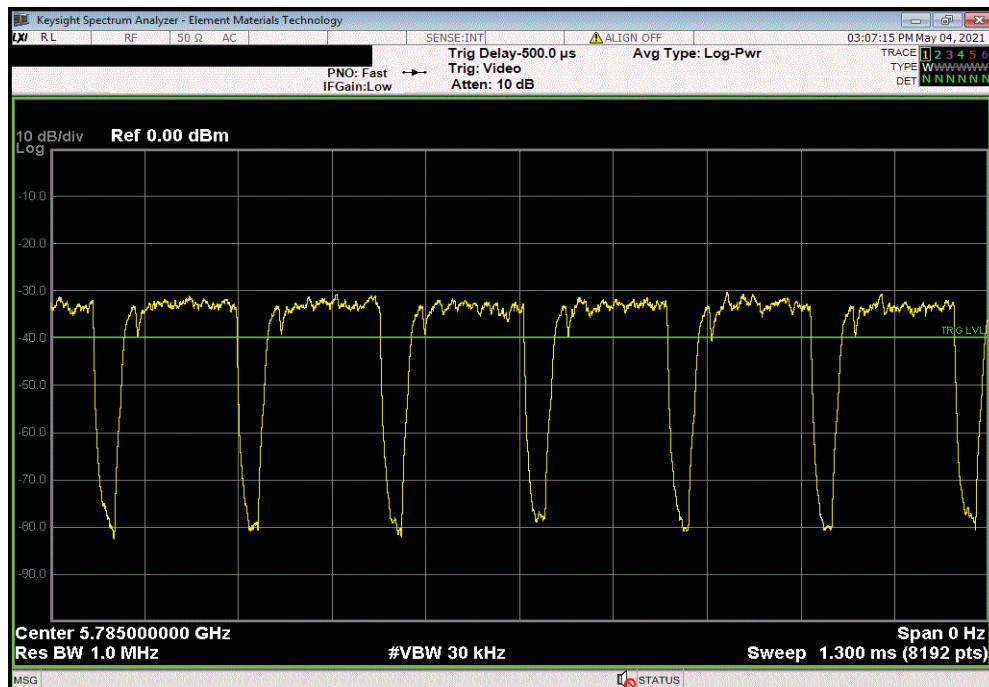


XMIT 2020.12.30.0

5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.15	0.20	1	76.85	N/A	N/A	



5725-5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

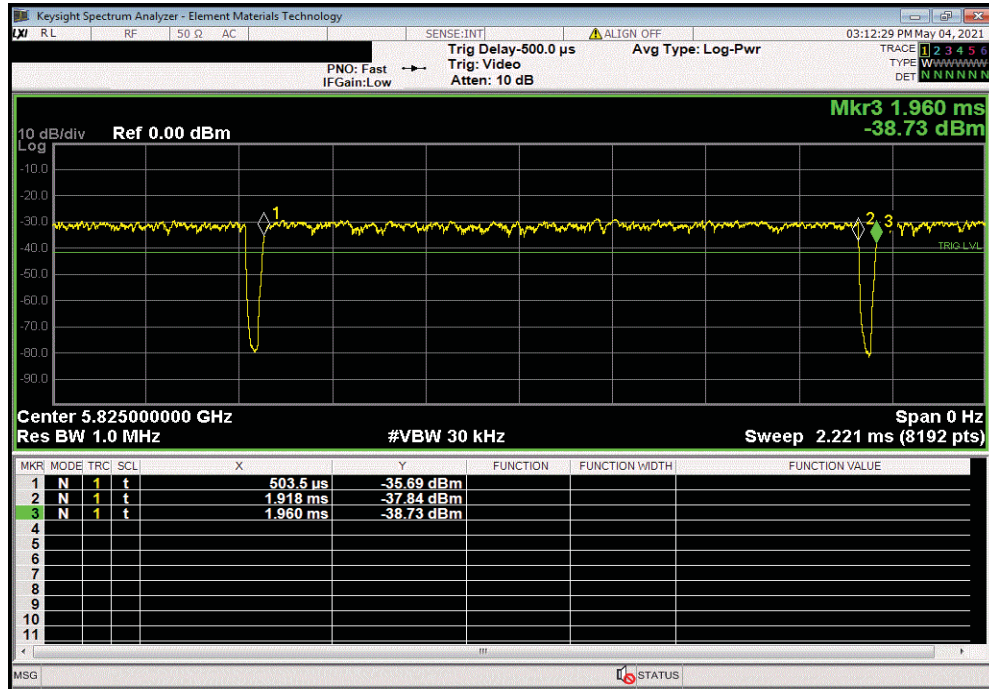


DUTY CYCLE

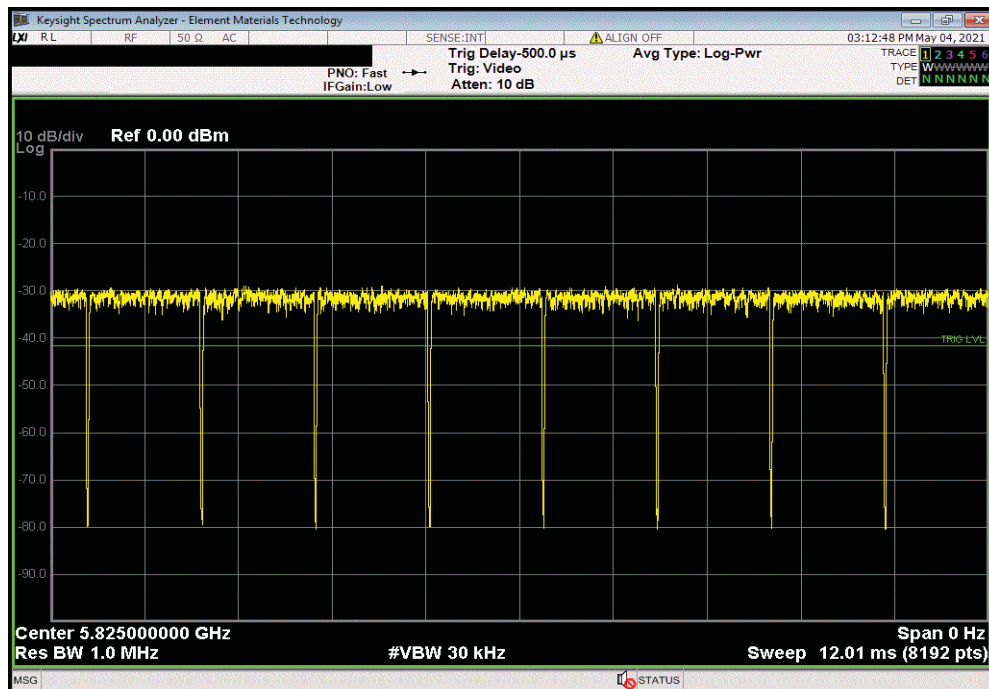


XMIT 2020.12.30.0

5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.41	1.46	1	97.12	N/A	N/A	



5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	7	N/A	N/A	N/A	



DUTY CYCLE

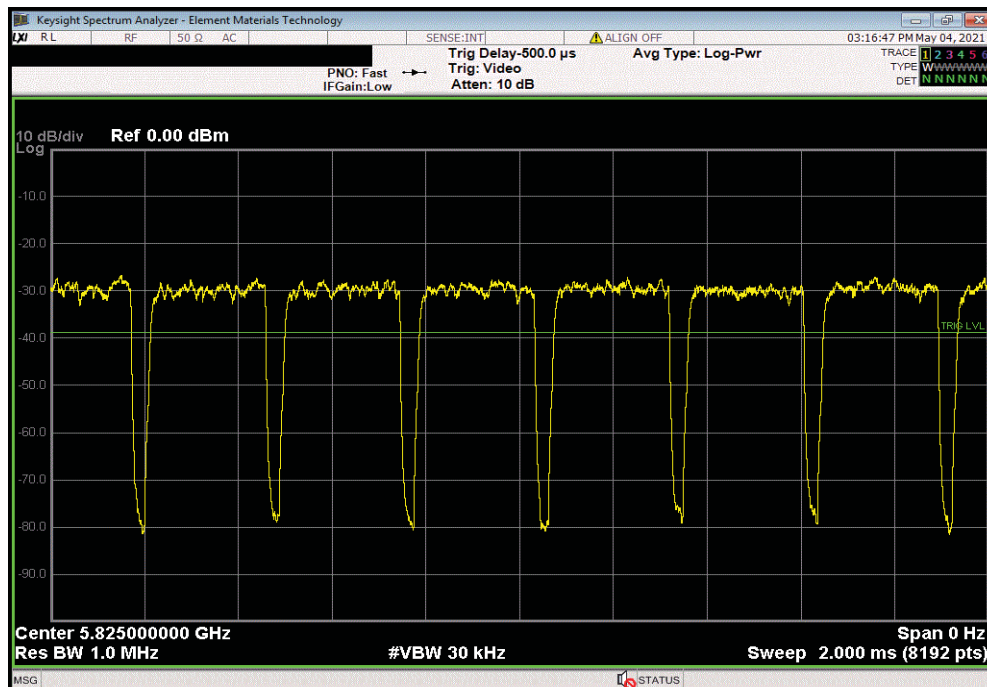


XMIT 2020.12.30.0

5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.24	0.29	1	85.12	N/A	N/A	



5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

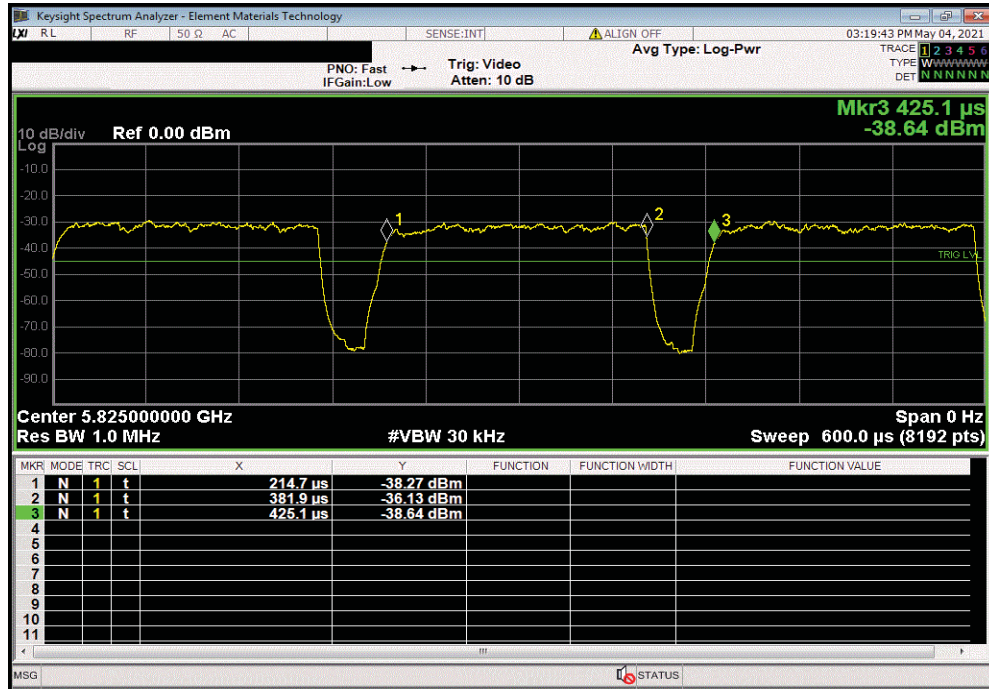


DUTY CYCLE

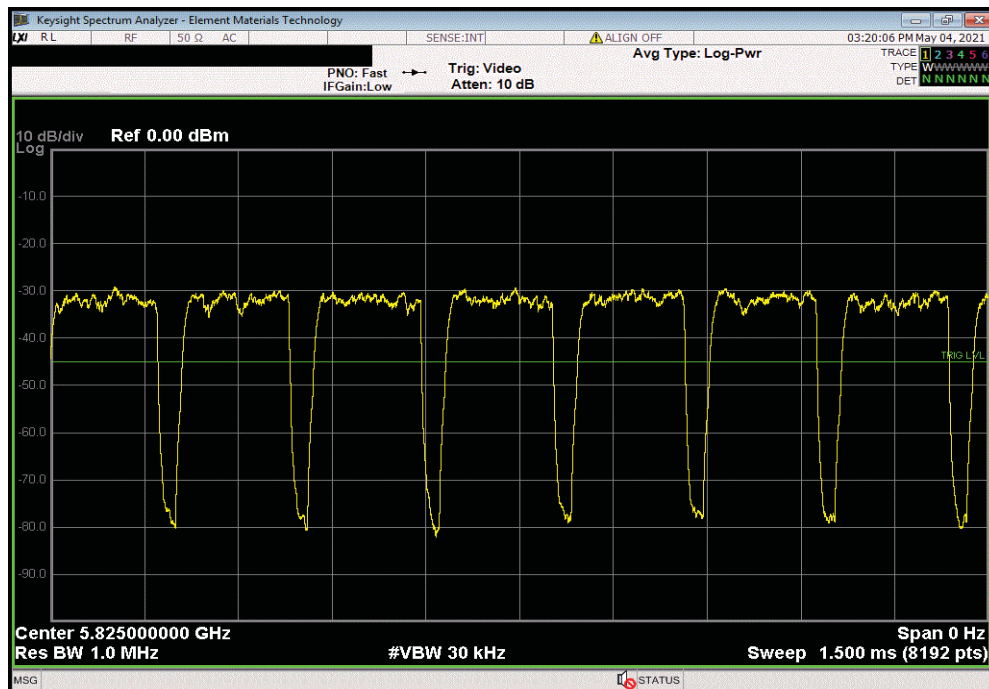


XMIT 2020.12.30.0

5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.17	0.21	1	79.47	N/A	N/A	



5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

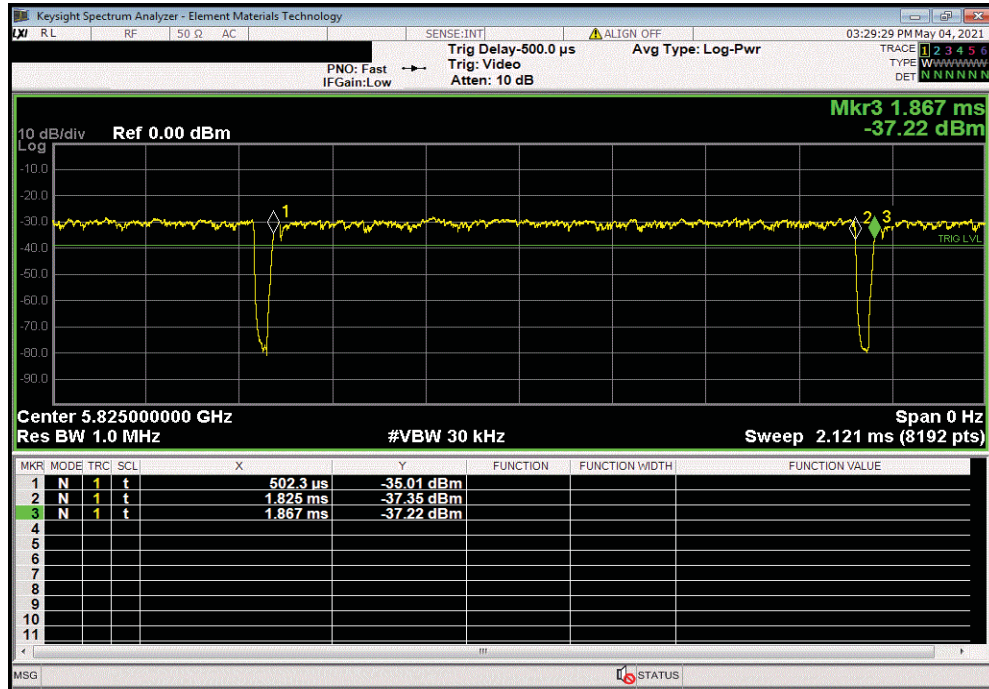


DUTY CYCLE

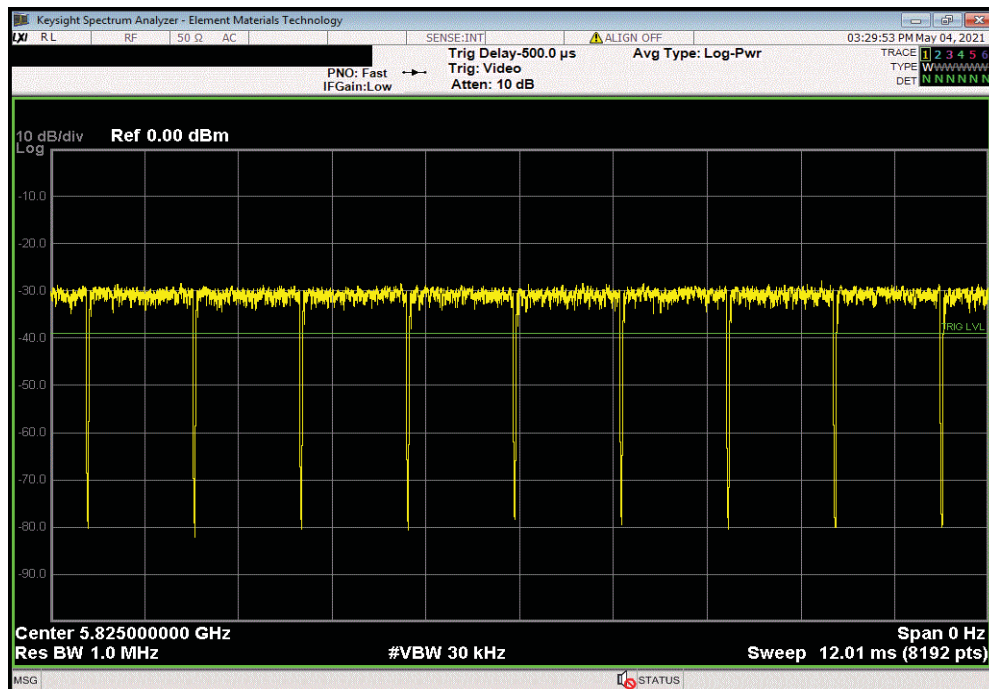


XMIT 2020.12.30.0

5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
1.32	1.36	1	96.92	N/A	N/A	



5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	8	N/A	N/A	N/A	



DUTY CYCLE



XMIT 2020.12.30.0

5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
0.16	0.20	1	78.74	N/A	N/A	



5725-5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7						
Pulse Width (ms)	Period (ms)	Number of Pulses	Value (%)	Limit (%)	Result	
N/A	N/A	6	N/A	N/A	N/A	

