EMISSION BANDWIDTH

XMit 2019.05.15

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
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	30-Nov-18	30-Nov-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. The transmit power was set to its default maximum.

Per ANSI C63.10, the spectrum analyzer settings were as follows:

-RBW = Approx. 1% of the emission bandwidth (B).

-VBW = > RBW

-Detector = Peak
-
-Trace mode = max hold

The spectrum analyzer occupied bandwidth measurement function was then used to measure 26 dB emission bandwidth.

There is no required limit to be met in the rule part for this test. The purpose of the test is to both report the results as required and to utilize the emission bandwidth for setting the channel power integration bandwidth during conducted output power testing.

EMISSION BANDWIDTH

element

TbtTx 2018.09.13 XMit 2019.05.15

EUT:	MWMII			**Work Order:**	MASI0553
Serial Number:	ENG-1			**Date:**	16-Jul-19
Customer:	Masimo Corporation			**Temperature:**	24..5 °C
Attendees:	Anami Joshi & Nghi Nguyen			**Humidity:**	47.2% RH
Project:	None			**Barometric Pres.:**	1015 mbar
Tested by:	Nolan De Ramos, Luis Flores, and Mark Baytan	**Power:**	3.6VDC	**Job Site:**	OC13

TEST SPECIFICATIONS	Test Method
FCC 15.407:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26.3dB Total Offset (5.2 GHz - 5.35 GHz)
Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26dB Total Offset (5.35 GHz - 5.8 GHz)

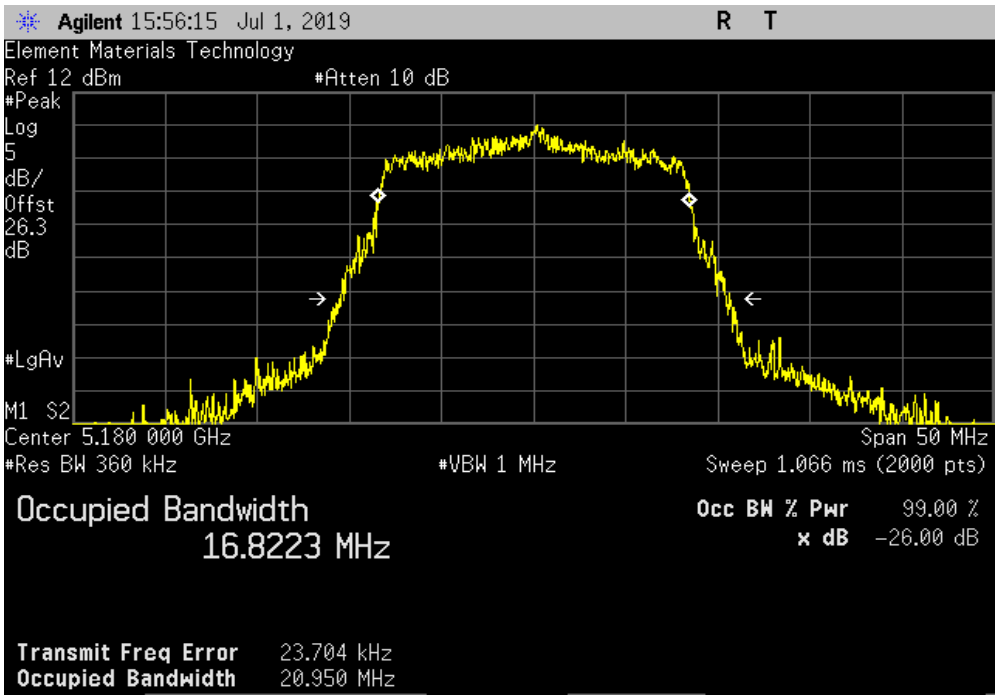
DEVIATIONS FROM TEST STANDARD

None

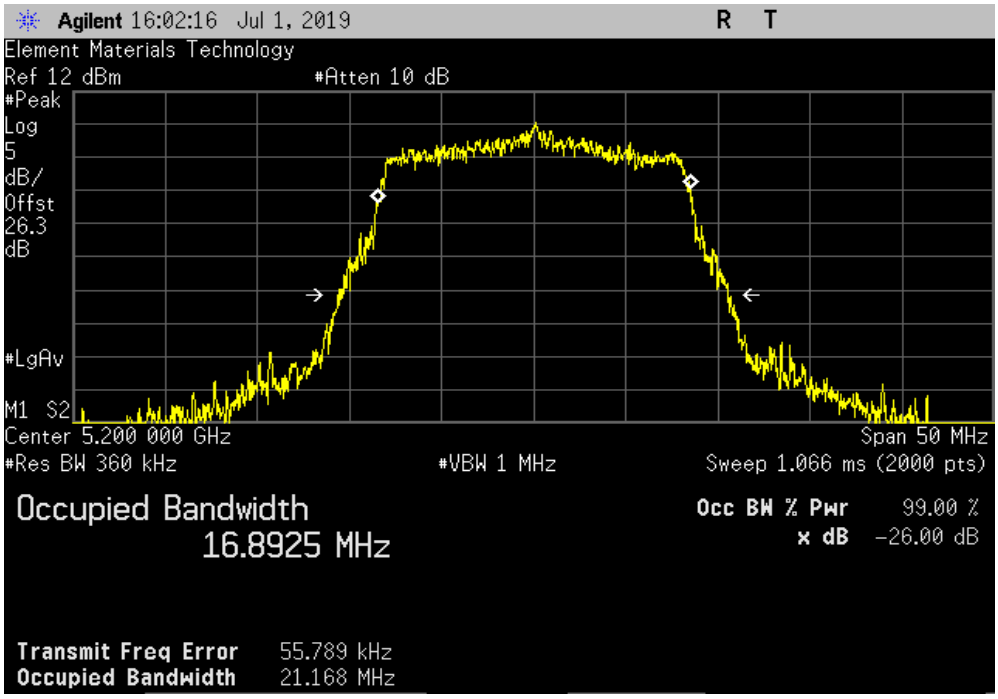
Configuration #	8

		Value (26 dB)	Limit (>)	Result
20 MHz				
	802.11(a) 6 Mbps			
	Ch 36, Low Channel 5180 MHz	20.95 MHz	500 kHz	Pass
	Ch 40, Mid Channel 5200 MHz	21.168 MHz	500 kHz	Pass
	Ch 48, High Channel 5240 MHz	21.216 MHz	500 kHz	Pass
	Ch 52, Low Channel 5260 MHz	21.12 MHz	500 kHz	Pass
	Ch 60, Mid Channel 5300 MHz	21.167 MHz	500 kHz	Pass
	Ch 64, High Channel 5320 MHz	21.057 MHz	500 kHz	Pass
	Ch 100, Low Channel 5500 MHz	21.137 MHz	500 kHz	Pass
	Ch 116, Mid Channel 5580 MHz	21.148 MHz	500 kHz	Pass
	Ch 140, High Channel 5700 MHz	20.952 MHz	500 kHz	Pass
	802.11(a) 36 Mbps			
	Ch 36, Low Channel 5180 MHz	21.138 MHz	500 kHz	Pass
	Ch 40, Mid Channel 5200 MHz	20.804 MHz	500 kHz	Pass
	Ch 48, High Channel 5240 MHz	20.999 MHz	500 kHz	Pass
	Ch 52, Low Channel 5260 MHz	20.907 MHz	500 kHz	Pass
	Ch 60, Mid Channel 5300 MHz	21.114 MHz	500 kHz	Pass
	Ch 64, High Channel 5320 MHz	21.124 MHz	500 kHz	Pass
	Ch 100, Low Channel 5500 MHz	20.544 MHz	500 kHz	Pass
	Ch 116, Mid Channel 5580 MHz	20.728 MHz	500 kHz	Pass
	Ch 140, High Channel 5700 MHz	21.173 MHz	500 kHz	Pass
	802.11(a) 54 Mbps			
	Ch 36, Low Channel 5180 MHz	21.031 MHz	500 kHz	Pass
	Ch 40, Mid Channel 5200 MHz	20.961 MHz	500 kHz	Pass
	Ch 48, High Channel 5240 MHz	20.759 MHz	500 kHz	Pass
	Ch 52, Low Channel 5260 MHz	21.109 MHz	500 kHz	Pass
	Ch 60, Mid Channel 5300 MHz	21.038 MHz	500 kHz	Pass
	Ch 64, High Channel 5320 MHz	20.854 MHz	500 kHz	Pass
	Ch 100, Low Channel 5500 MHz	20.94 MHz	500 kHz	Pass
	Ch 116, Mid Channel 5580 MHz	20.702 MHz	500 kHz	Pass
	Ch 140, High Channel 5700 MHz	20.814 MHz	500 kHz	Pass
	802.11(n) MCS0			
	Ch 36, Low Channel 5180 MHz	21.241 MHz	500 kHz	Pass
	Ch 40, Mid Channel 5200 MHz	21.19 MHz	500 kHz	Pass
	Ch 48, High Channel 5240 MHz	21.248 MHz	500 kHz	Pass
	Ch 52, Low Channel 5260 MHz	21.227 MHz	500 kHz	Pass
	Ch 60, Mid Channel 5300 MHz	21.424 MHz	500 kHz	Pass
	Ch 64, High Channel 5320 MHz	21.282 MHz	500 kHz	Pass
	Ch 100, Low Channel 5500 MHz	21.398 MHz	500 kHz	Pass
	Ch 116, Mid Channel 5580 MHz	21.187 MHz	500 kHz	Pass
	Ch 140, High Channel 5700 MHz	21.432 MHz	500 kHz	Pass
	802.11(n) MCS7			
	Ch 36, Low Channel 5180 MHz	21.223 MHz	500 kHz	Pass
	Ch 40, Mid Channel 5200 MHz	21.508 MHz	500 kHz	Pass
	Ch 48, High Channel 5240 MHz	20.797 MHz	500 kHz	Pass
	Ch 52, Low Channel 5260 MHz	21.035 MHz	500 kHz	Pass
	Ch 60, Mid Channel 5300 MHz	21.208 MHz	500 kHz	Pass
	Ch 64, High Channel 5320 MHz	21.288 MHz	500 kHz	Pass
	Ch 100, Low Channel 5500 MHz	21.2 MHz	500 kHz	Pass
	Ch 116, Mid Channel 5580 MHz	20.616 MHz	500 kHz	Pass
	Ch 140, High Channel 5700 MHz	21.062 MHz	500 kHz	Pass
40 MHz				
	802.11(n) MCS0			
	Ch 36/40, Low Channel 5190 MHz	40.259 MHz	500 kHz	Pass
	Ch 44/48, High Channel 5230 MHz	40.588 MHz	500 kHz	Pass
	Ch 52/56, Low Channel 5270 MHz	40.483 MHz	500 kHz	Pass
	Ch 60/64, High Channel 5310 MHz	40.358 MHz	500 kHz	Pass
	Ch 100/104, Low Channel 5510 MHz	40.099 MHz	500 kHz	Pass
	Ch 116/120, Mid Channel 5590 MHz	40.136 MHz	500 kHz	Pass
	Ch 132/136, High Channel 5670 MHz	40.294 MHz	500 kHz	Pass
	802.11(n) MCS7			
	Ch 36/40, Low Channel 5190 MHz	40.305 MHz	500 kHz	Pass
	Ch 44/48, High Channel 5230 MHz	39.928 MHz	500 kHz	Pass
	Ch 52/56, Low Channel 5270 MHz	40.144 MHz	500 kHz	Pass
	Ch 60/64, High Channel 5310 MHz	40.066 MHz	500 kHz	Pass
	Ch 100/104, Low Channel 5510 MHz	40.055 MHz	500 kHz	Pass
	Ch 116/120, Mid Channel 5590 MHz	40.34 MHz	500 kHz	Pass
	Ch 132/136, High Channel 5670 MHz	39.994 MHz	500 kHz	Pass

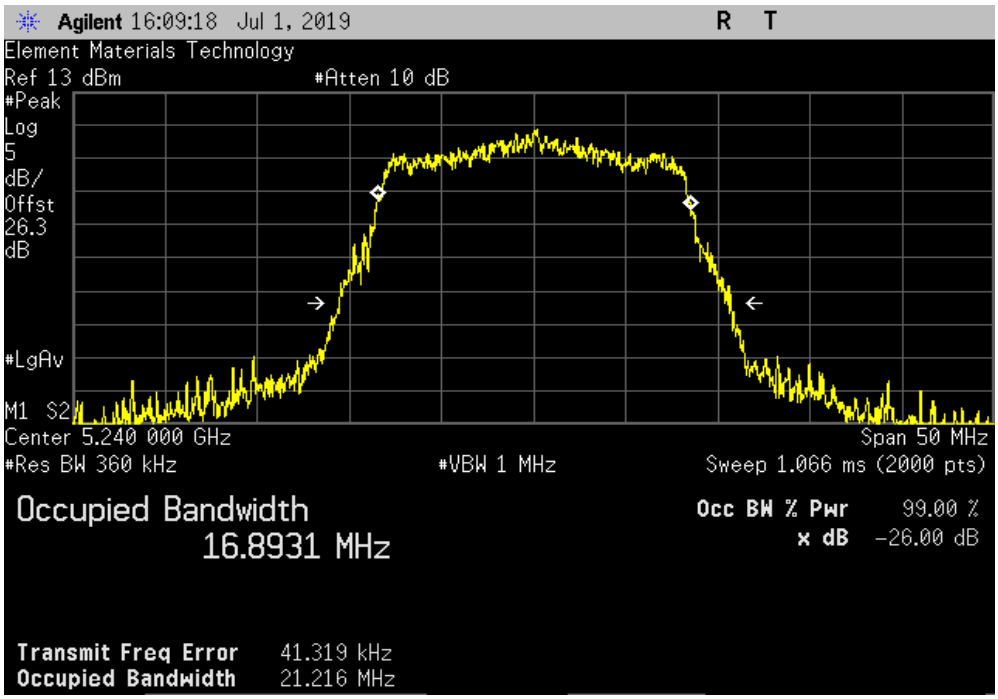
20 MHz, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz						
				Value (26 dB)	Limit (>)	Result
				20.95 MHz	500 kHz	Pass



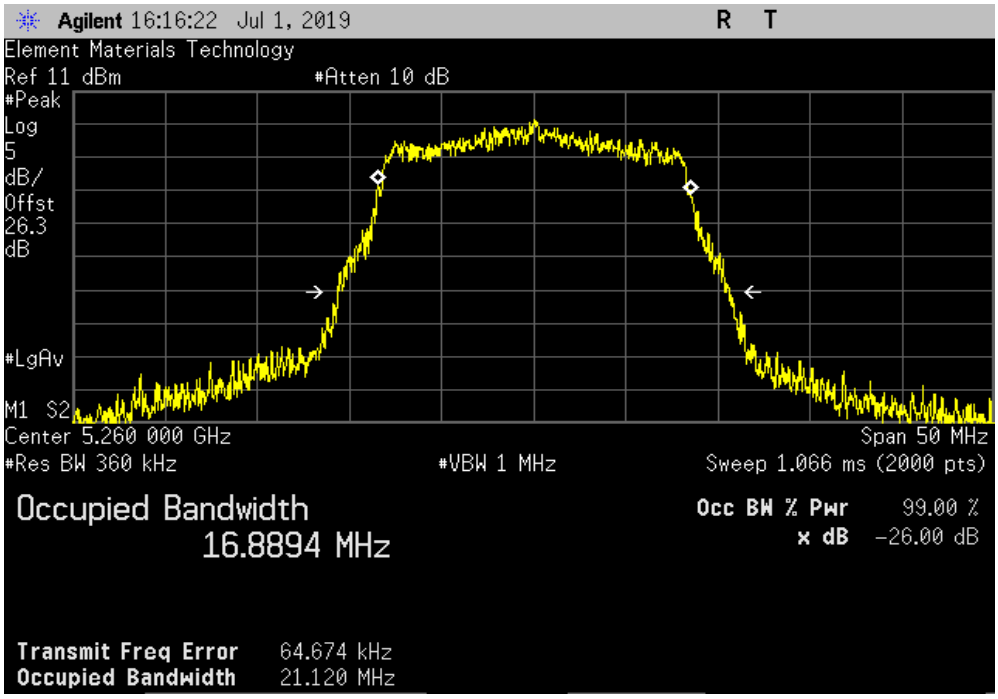
20 MHz, 802.11(a) 6 Mbps, Ch 40, Mid Channel 5200 MHz						
				Value (26 dB)	Limit (>)	Result
				21.168 MHz	500 kHz	Pass



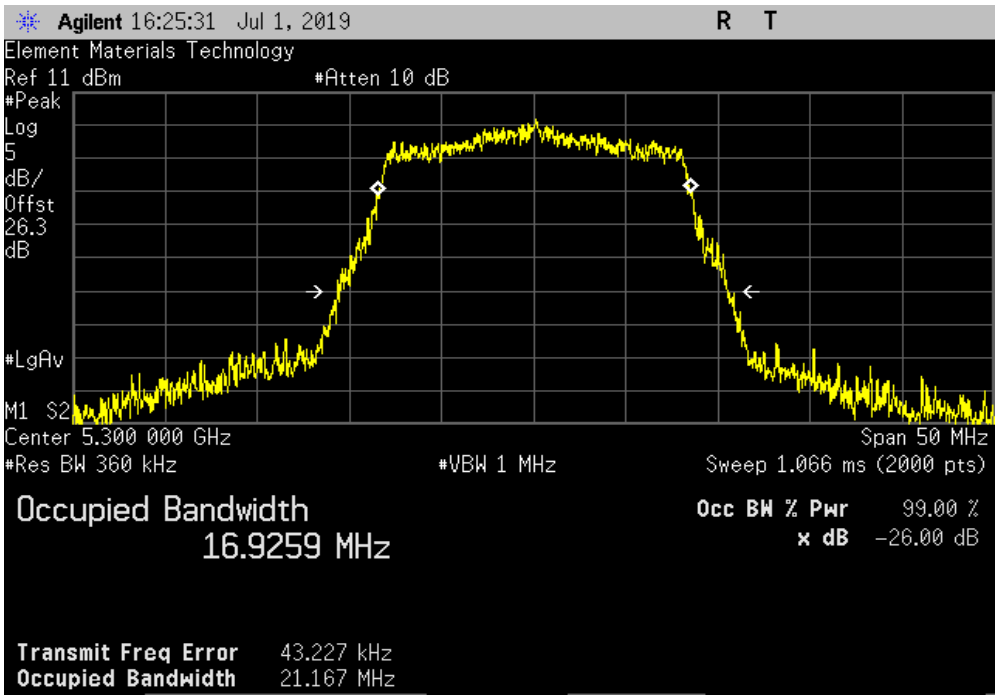
20 MHz, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
				Value (26 dB)	Limit (>)	Result
				21.216 MHz	500 kHz	Pass



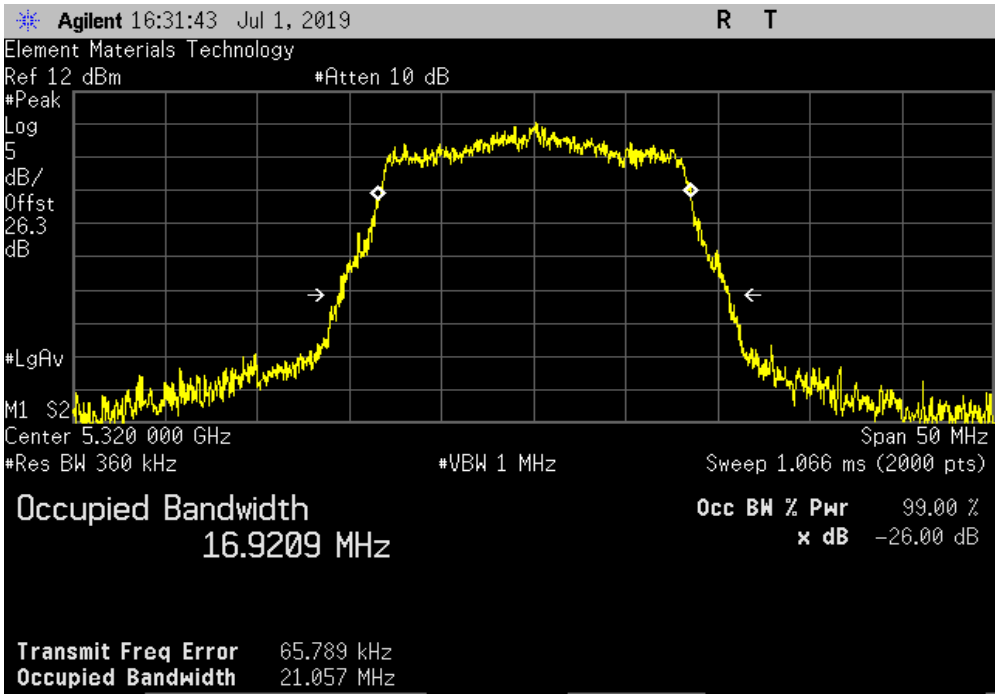
20 MHz, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz						
				Value (26 dB)	Limit (>)	Result
				21.12 MHz	500 kHz	Pass



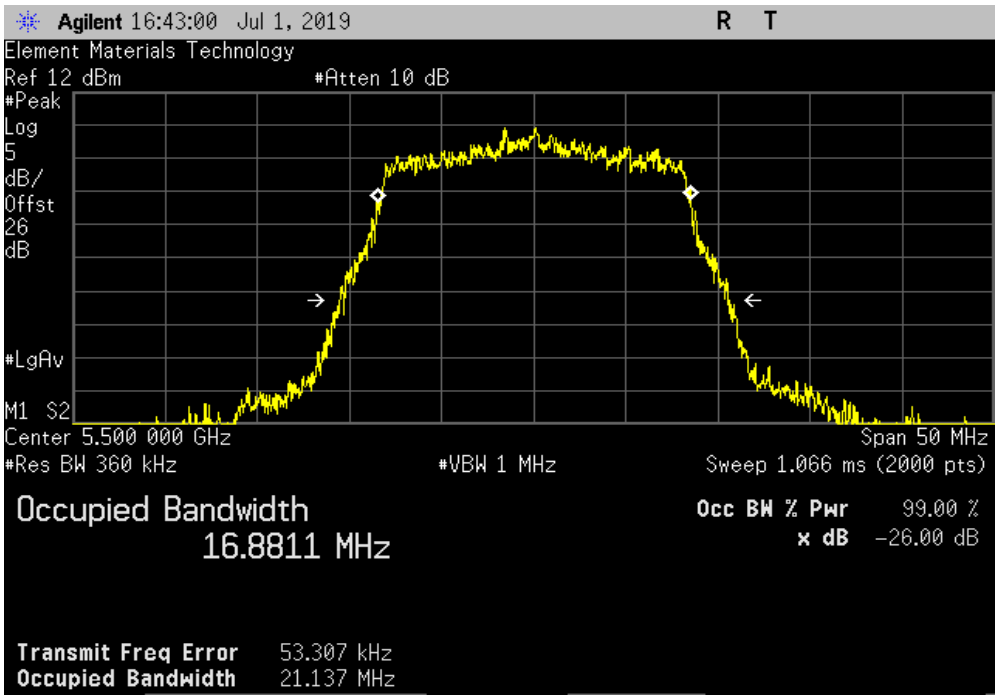
20 MHz, 802.11(a) 6 Mbps, Ch 60, Mid Channel 5300 MHz						
				Value (26 dB)	Limit (>)	Result
				21.167 MHz	500 kHz	Pass



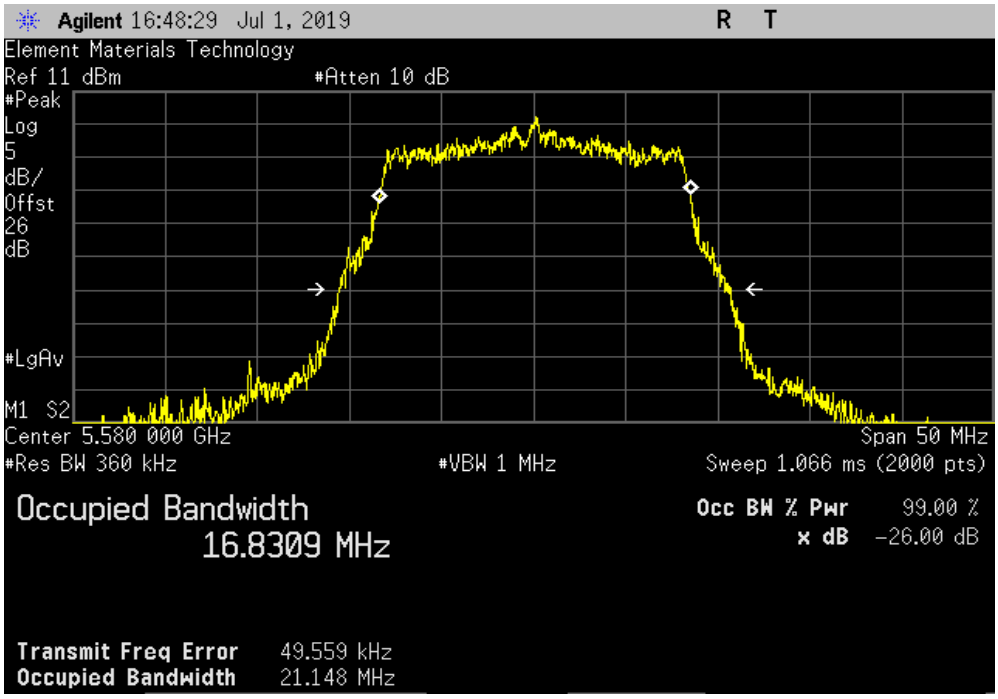
20 MHz, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz						
				Value (26 dB)	Limit (>)	Result
				21.057 MHz	500 kHz	Pass



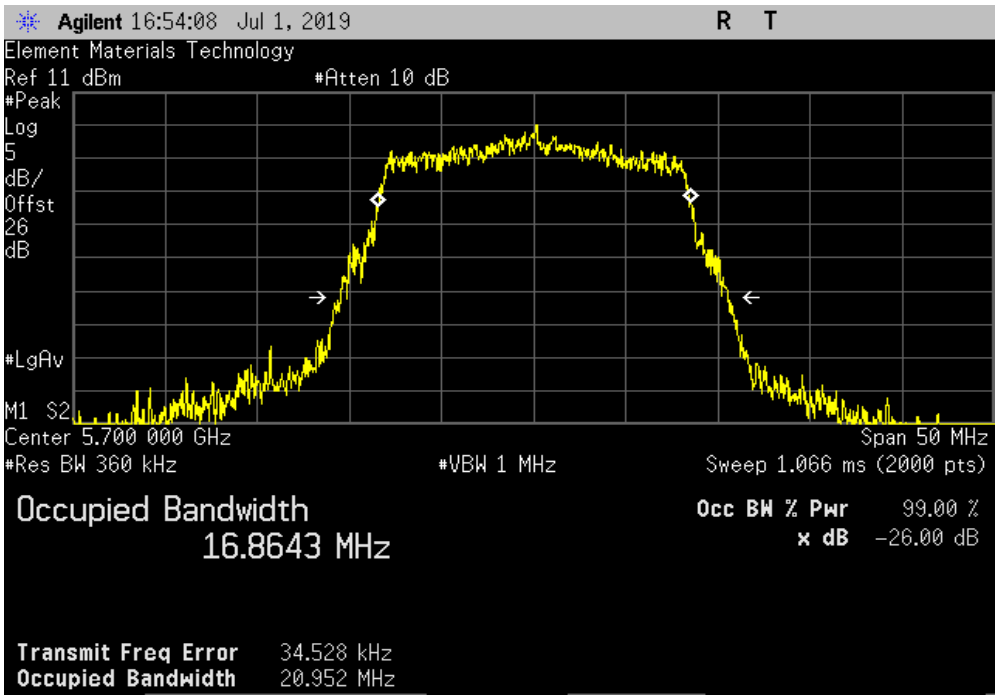
20 MHz, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz						
				Value (26 dB)	Limit (>)	Result
				21.137 MHz	500 kHz	Pass



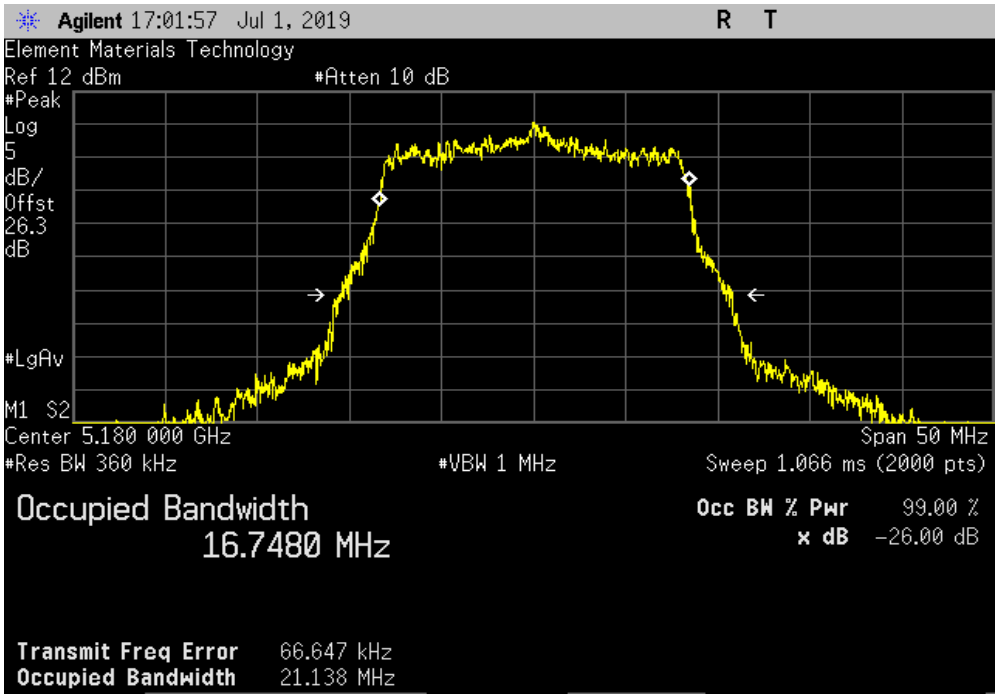
20 MHz, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value (26 dB)	Limit (>)	Result
				21.148 MHz	500 kHz	Pass



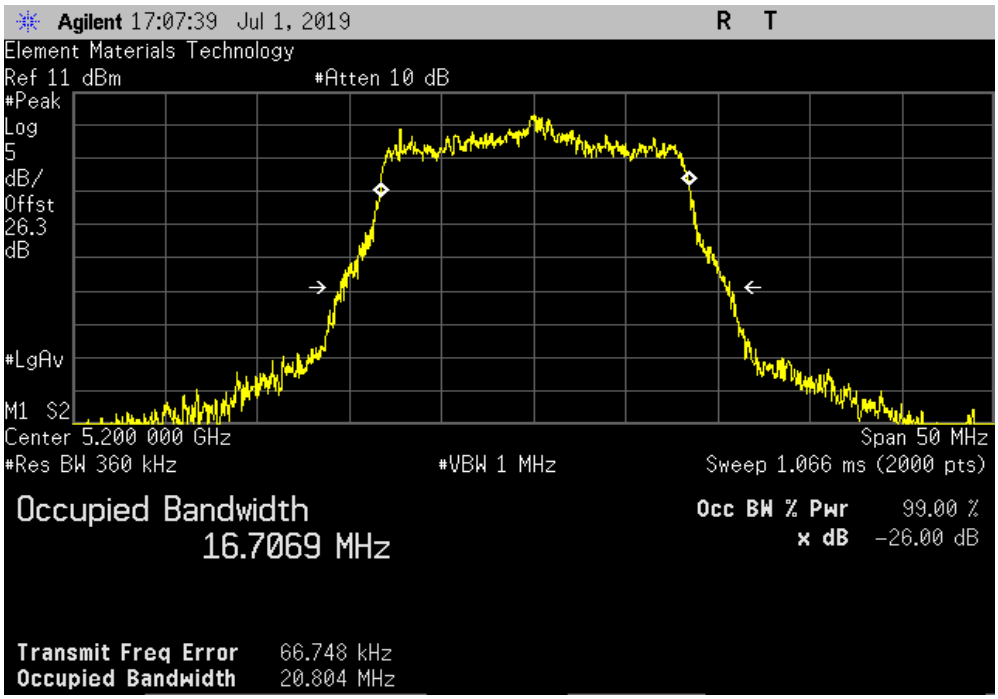
20 MHz, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz						
				Value (26 dB)	Limit (>)	Result
				20.952 MHz	500 kHz	Pass



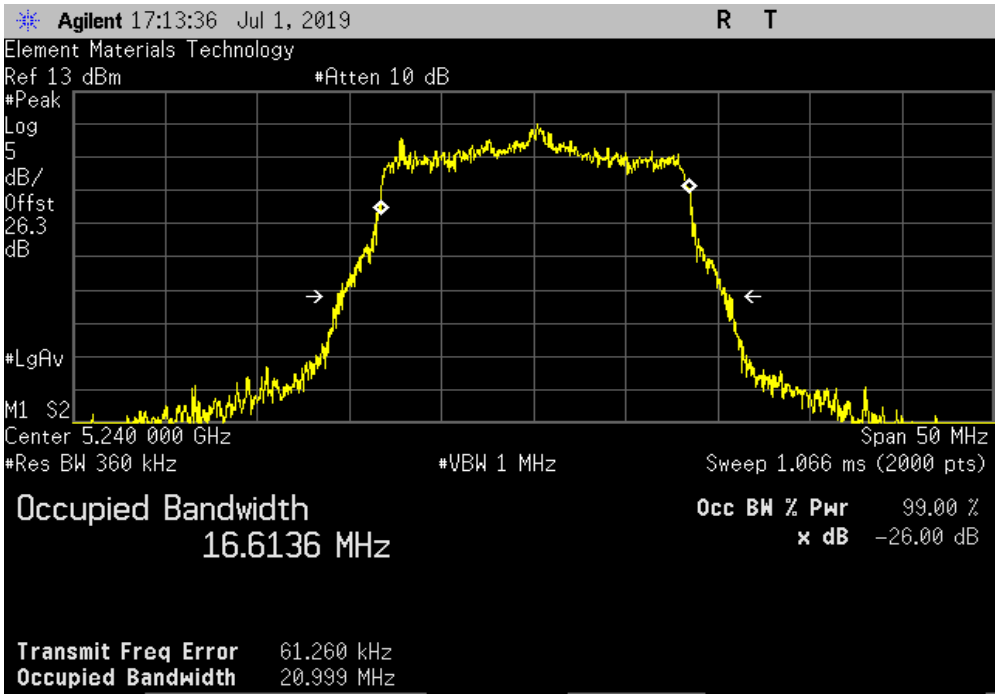
20 MHz, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz						
				Value (26 dB)	Limit (>)	Result
				21.138 MHz	500 kHz	Pass



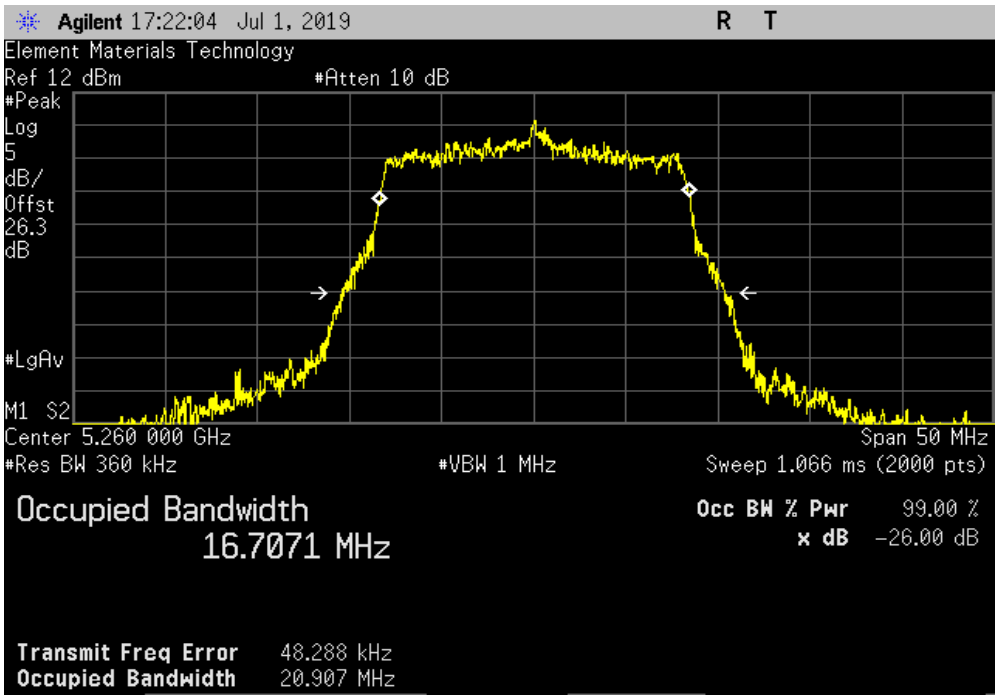
20 MHz, 802.11(a) 36 Mbps, Ch 40, Mid Channel 5200 MHz						
				Value (26 dB)	Limit (>)	Result
				20.804 MHz	500 kHz	Pass



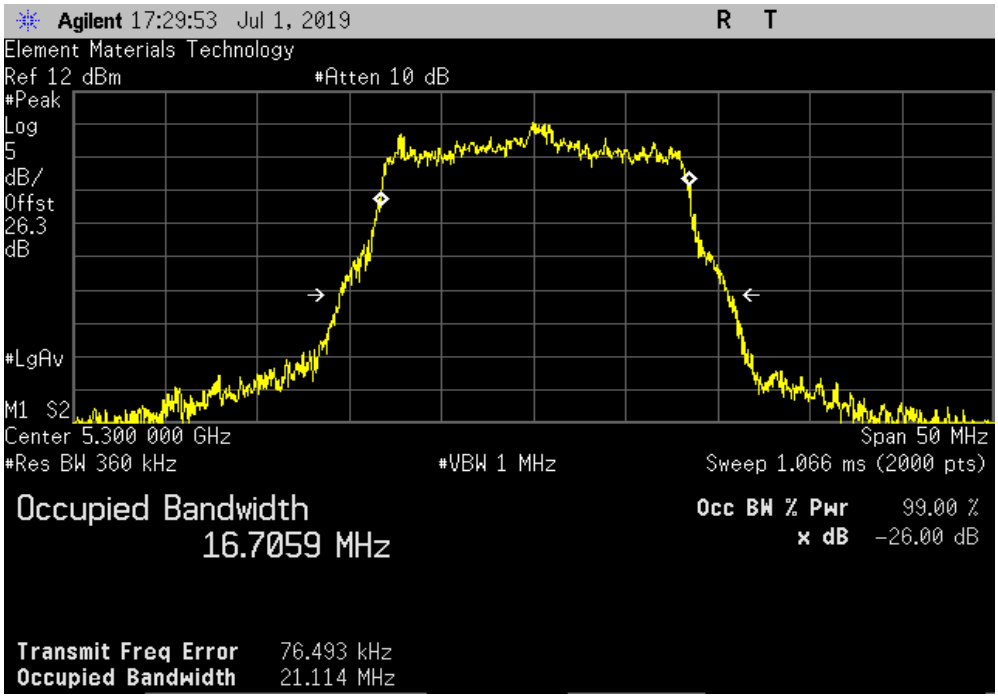
20 MHz, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
				Value (26 dB)	Limit (>)	Result
				20.999 MHz	500 kHz	Pass



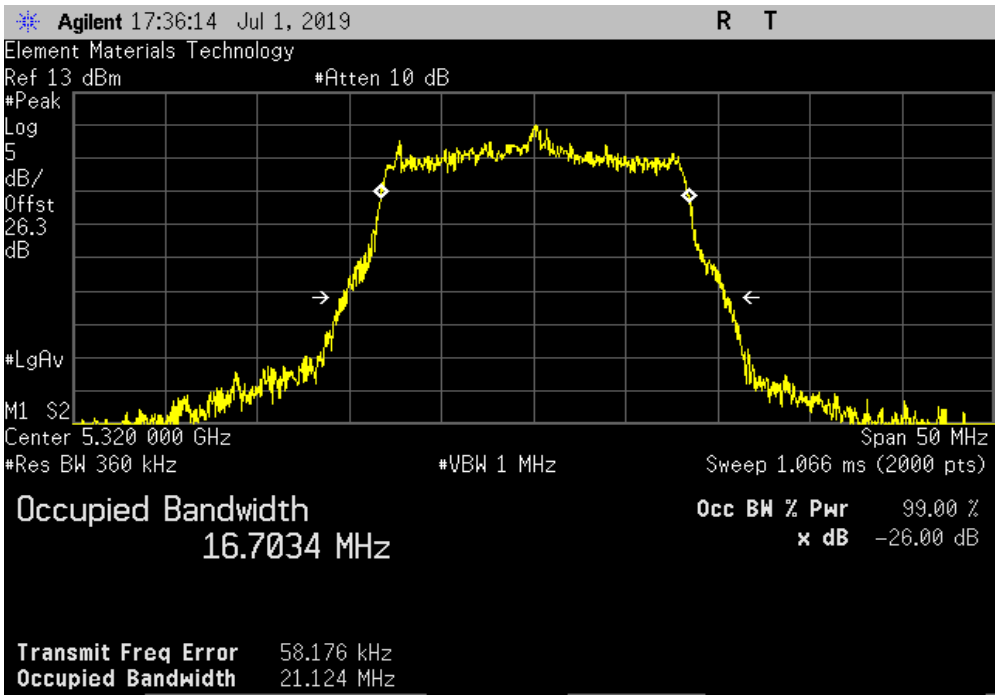
20 MHz, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz						
				Value (26 dB)	Limit (>)	Result
				20.907 MHz	500 kHz	Pass



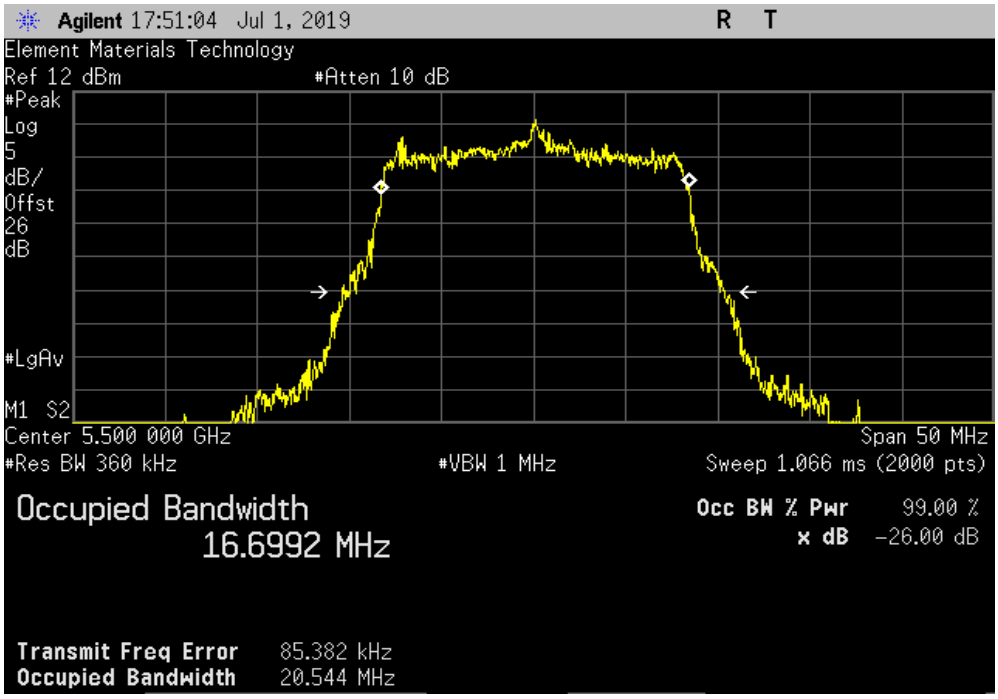
20 MHz, 802.11(a) 36 Mbps, Ch 60, Mid Channel 5300 MHz						
				Value (26 dB)	Limit (>)	Result
				21.114 MHz	500 kHz	Pass



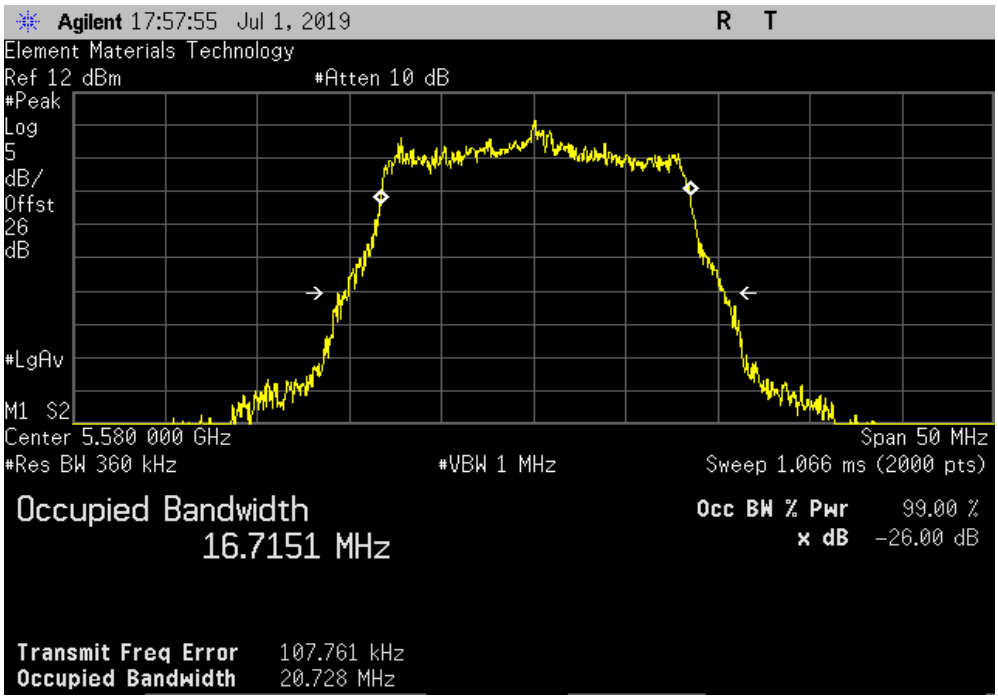
20 MHz, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz						
				Value (26 dB)	Limit (>)	Result
				21.124 MHz	500 kHz	Pass



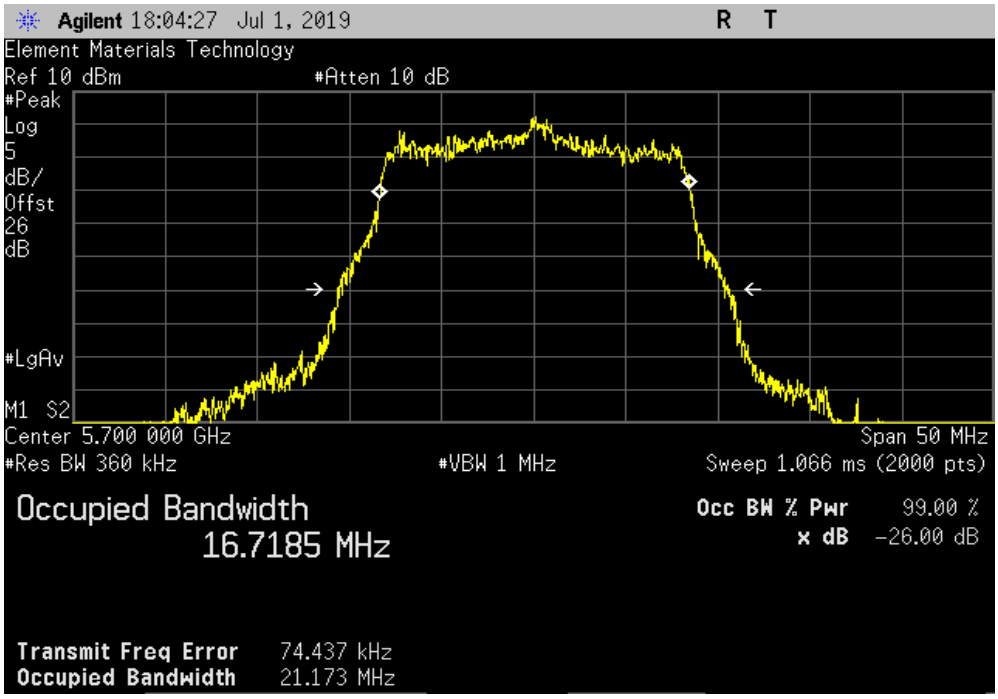
20 MHz, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz						
				Value (26 dB)	Limit (>)	Result
				20.544 MHz	500 kHz	Pass



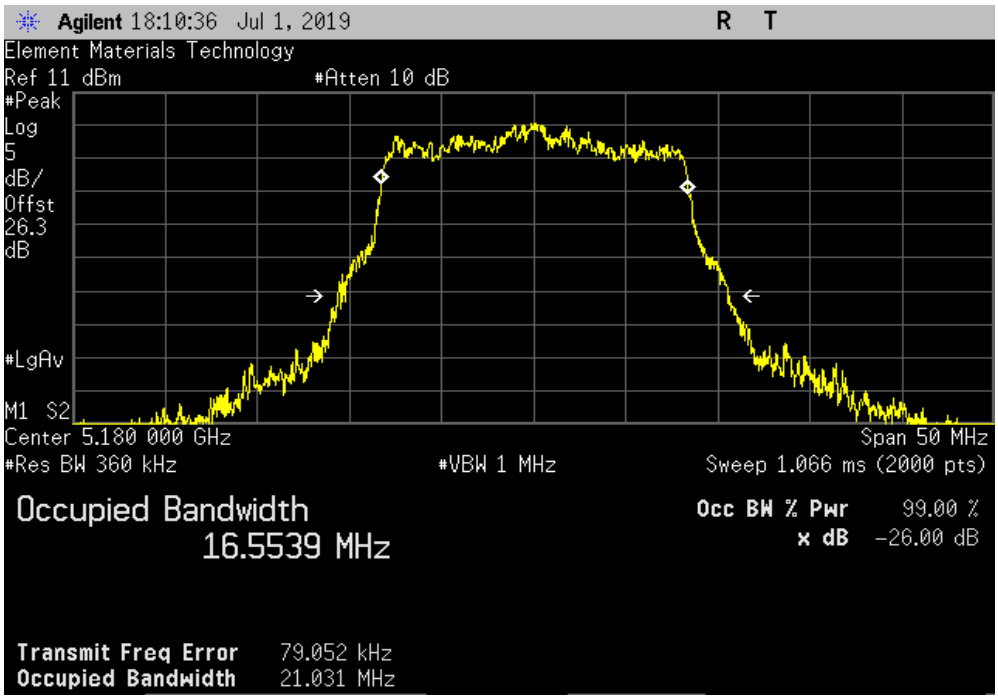
20 MHz, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value (26 dB)	Limit (>)	Result
				20.728 MHz	500 kHz	Pass



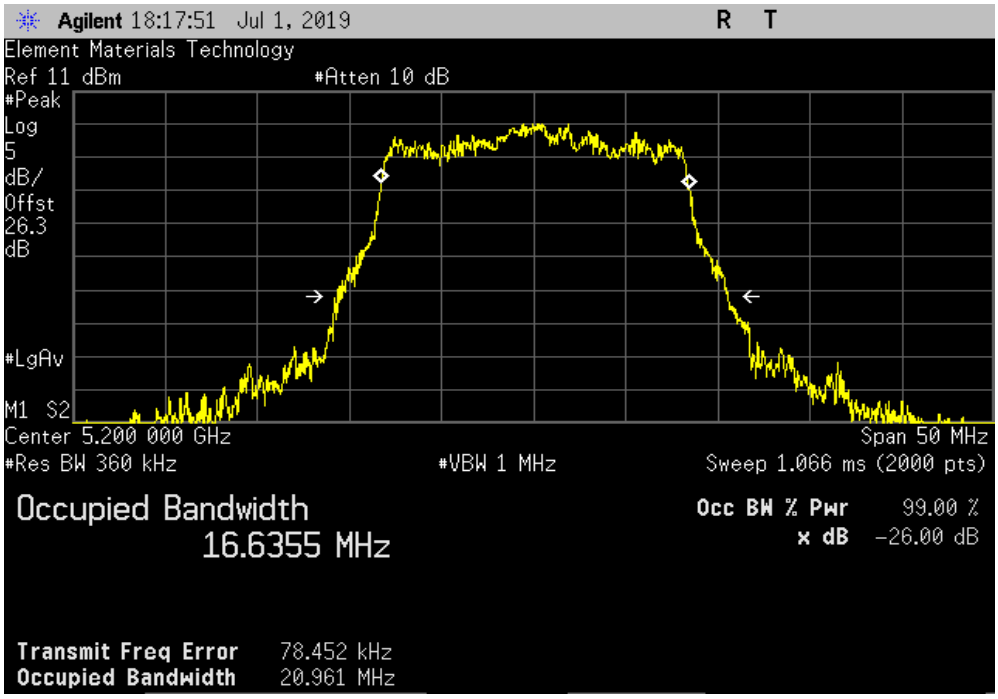
20 MHz, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz						
				Value (26 dB)	Limit (>)	Result
				21.173 MHz	500 kHz	Pass



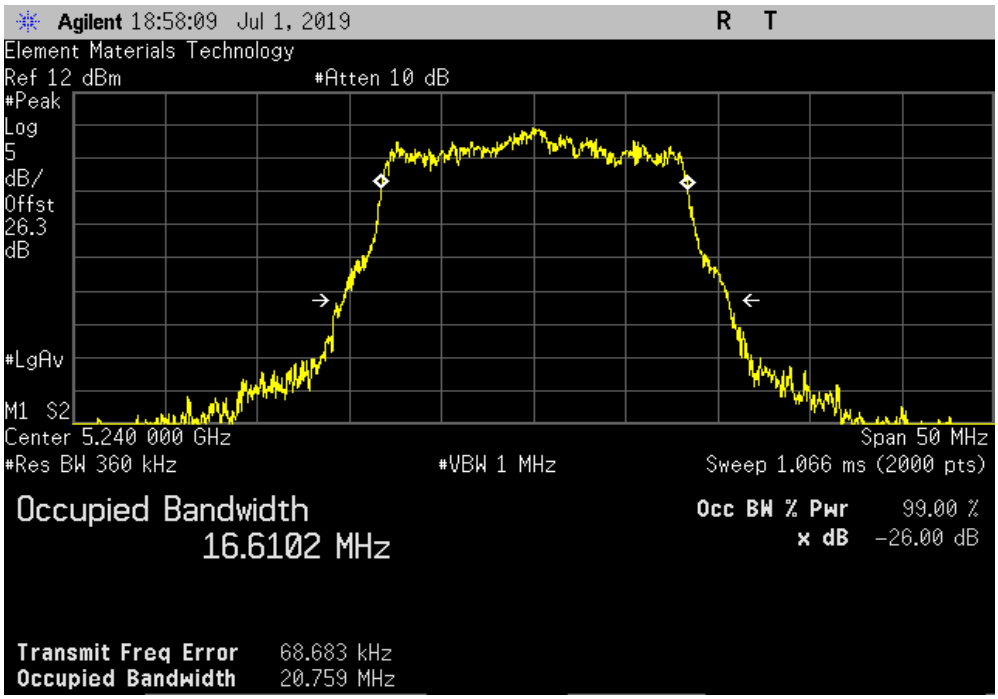
20 MHz, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz						
				Value (26 dB)	Limit (>)	Result
				21.031 MHz	500 kHz	Pass



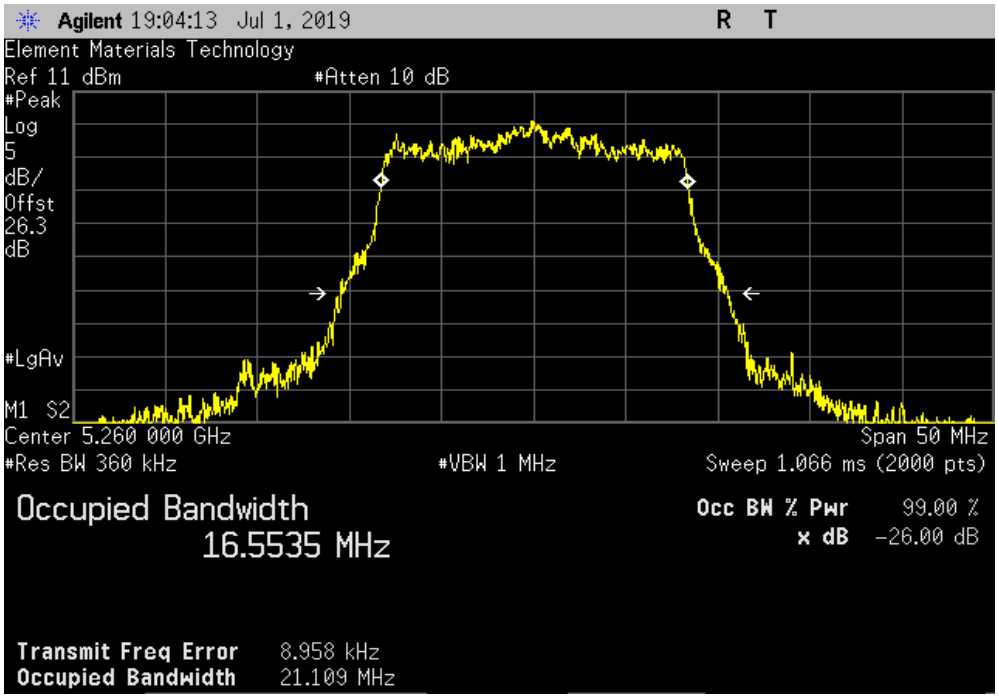
20 MHz, 802.11(a) 54 Mbps, Ch 40, Mid Channel 5200 MHz						
				Value (26 dB)	Limit (>)	Result
				20.961 MHz	500 kHz	Pass



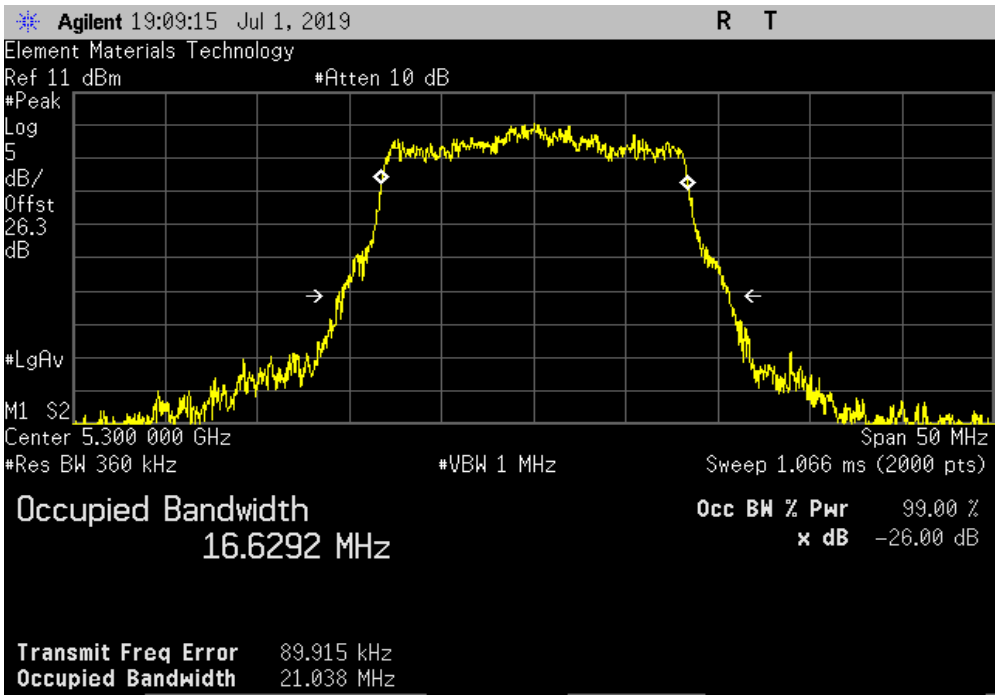
20 MHz, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
				Value (26 dB)	Limit (>)	Result
				20.759 MHz	500 kHz	Pass



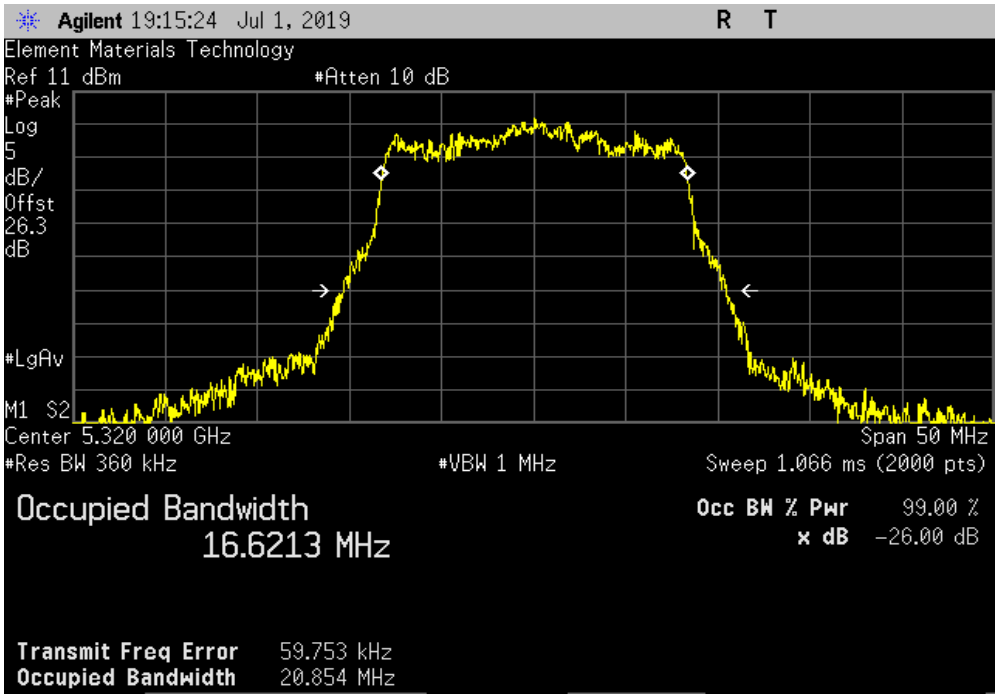
20 MHz, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz						
				Value (26 dB)	Limit (>)	Result
				21.109 MHz	500 kHz	Pass



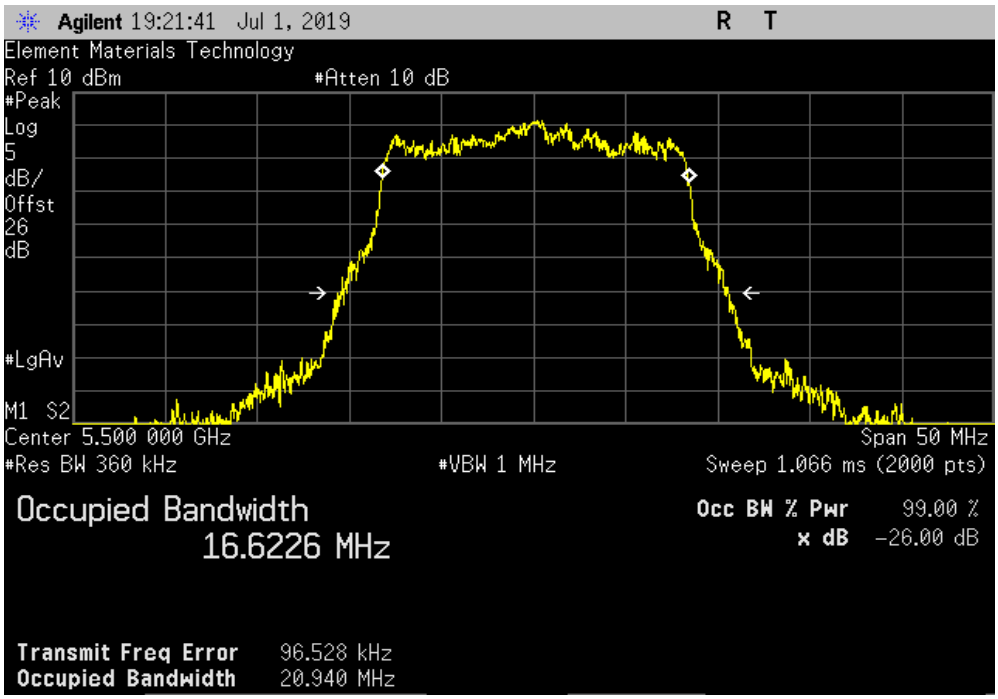
20 MHz, 802.11(a) 54 Mbps, Ch 60, Mid Channel 5300 MHz						
				Value (26 dB)	Limit (>)	Result
				21.038 MHz	500 kHz	Pass



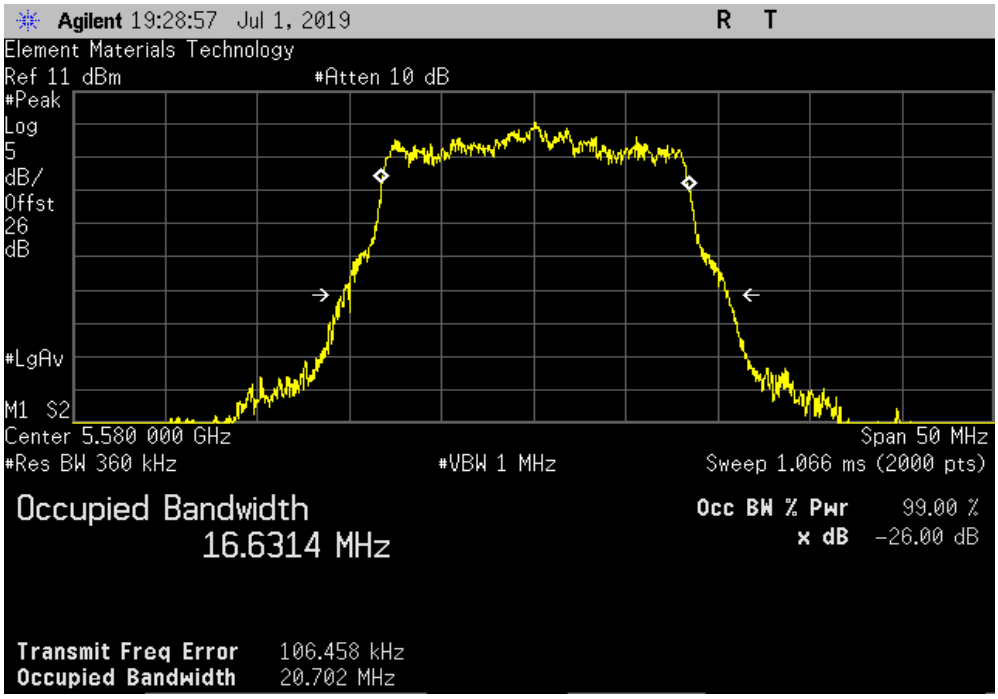
20 MHz, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz						
				Value (26 dB)	Limit (>)	Result
				20.854 MHz	500 kHz	Pass



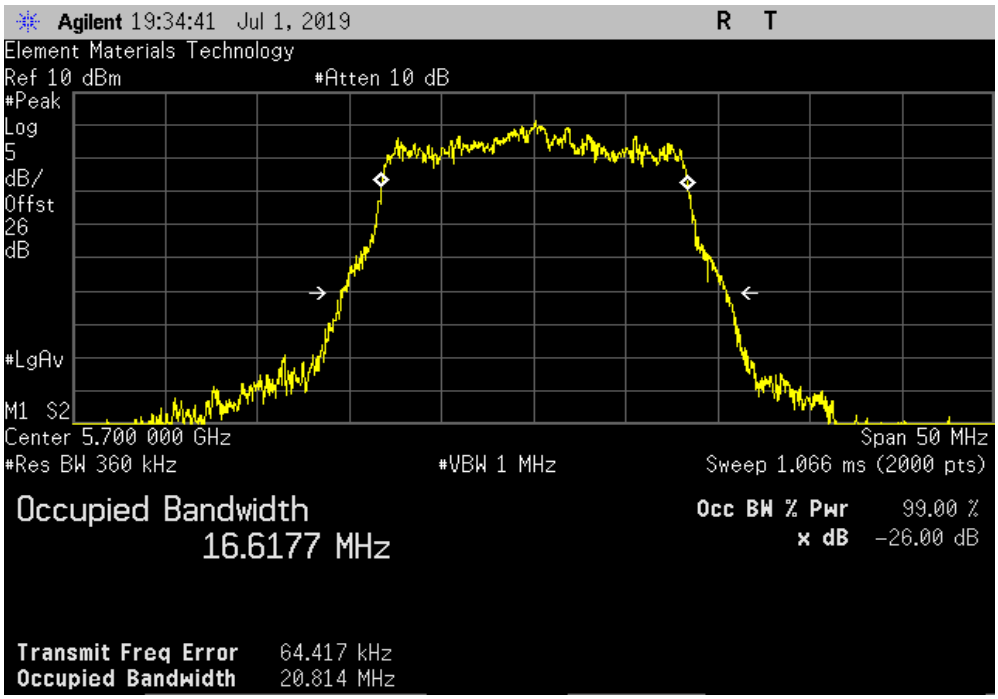
20 MHz, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz						
				Value (26 dB)	Limit (>)	Result
				20.94 MHz	500 kHz	Pass



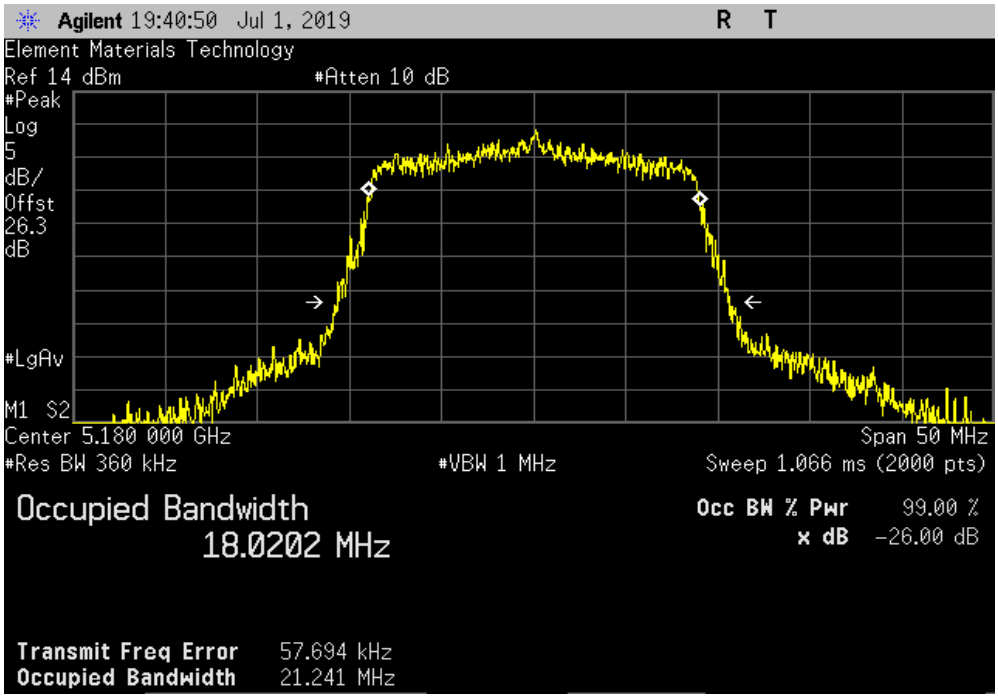
20 MHz, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz						
				Value (26 dB)	Limit (>)	Result
				20.702 MHz	500 kHz	Pass



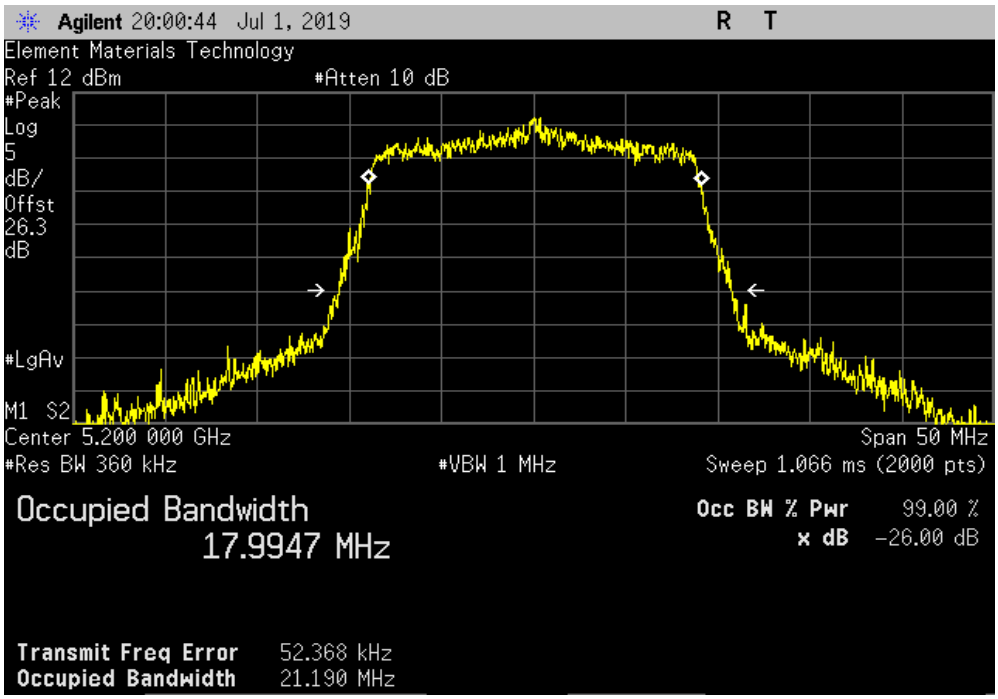
20 MHz, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz						
				Value (26 dB)	Limit (>)	Result
				20.814 MHz	500 kHz	Pass



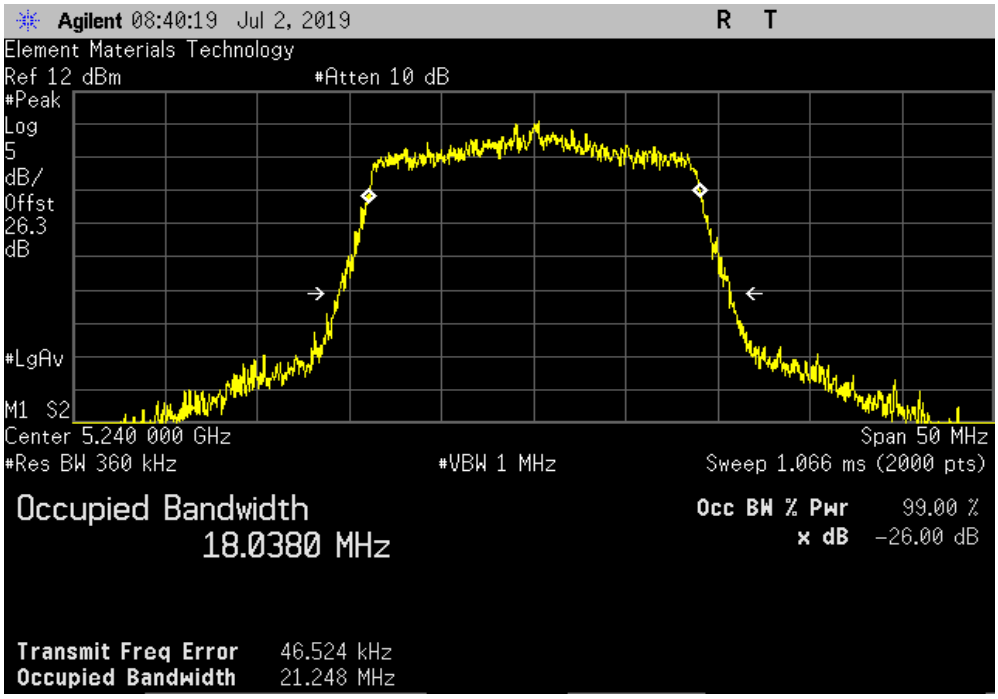
20 MHz, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz						
				Value (26 dB)	Limit (>)	Result
				21.241 MHz	500 kHz	Pass



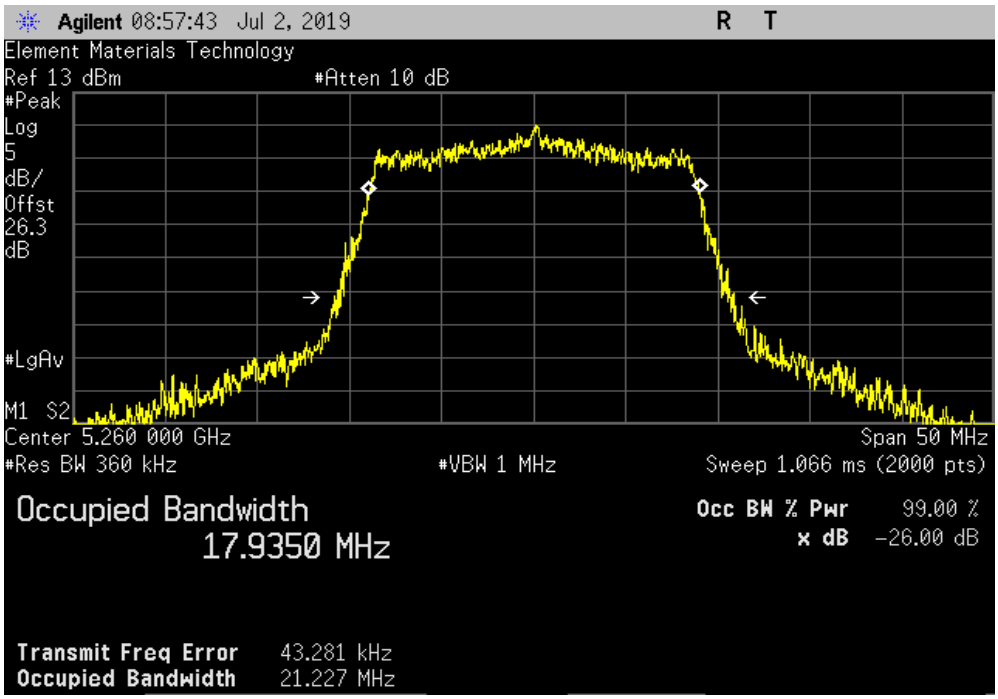
20 MHz, 802.11(n) MCS0, Ch 40, Mid Channel 5200 MHz						
				Value (26 dB)	Limit (>)	Result
				21.19 MHz	500 kHz	Pass



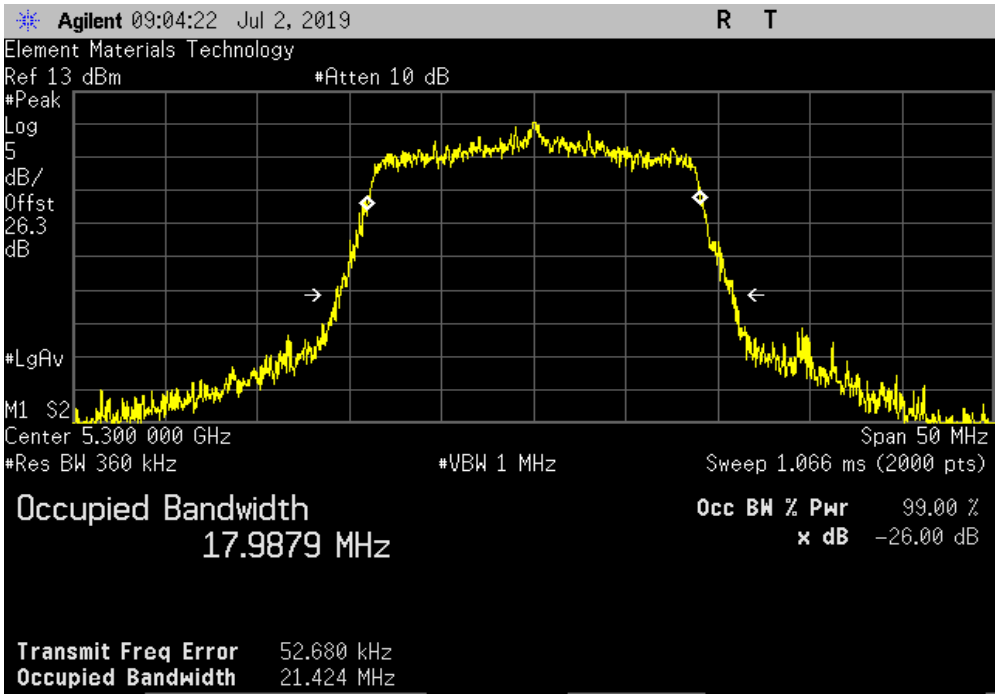
20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
				Value (26 dB)	Limit (>)	Result
				21.248 MHz	500 kHz	Pass



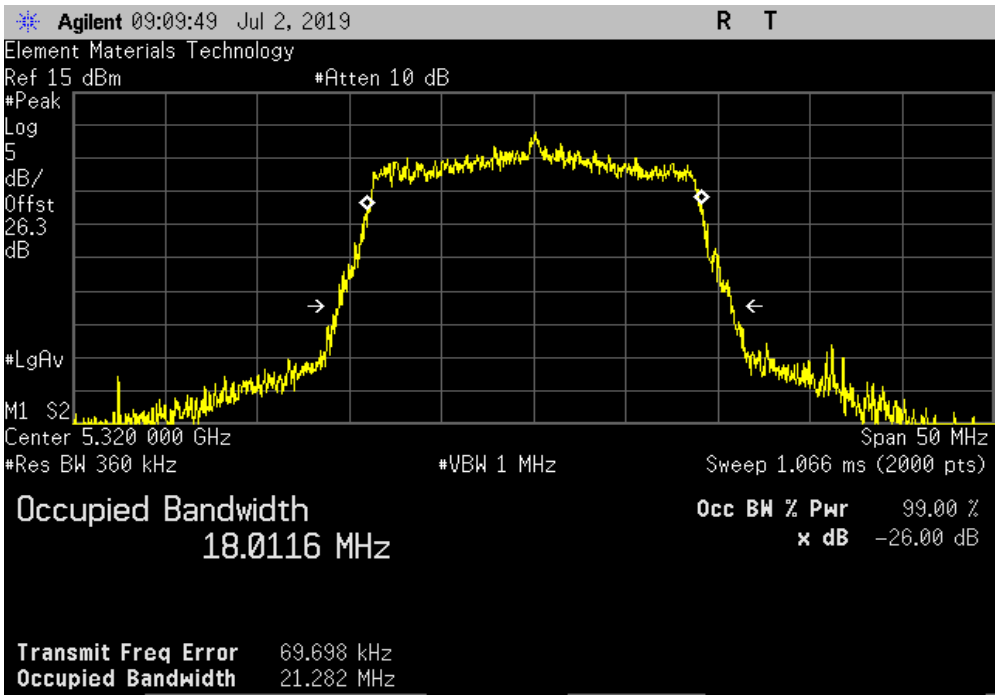
20 MHz, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz						
				Value (26 dB)	Limit (>)	Result
				21.227 MHz	500 kHz	Pass



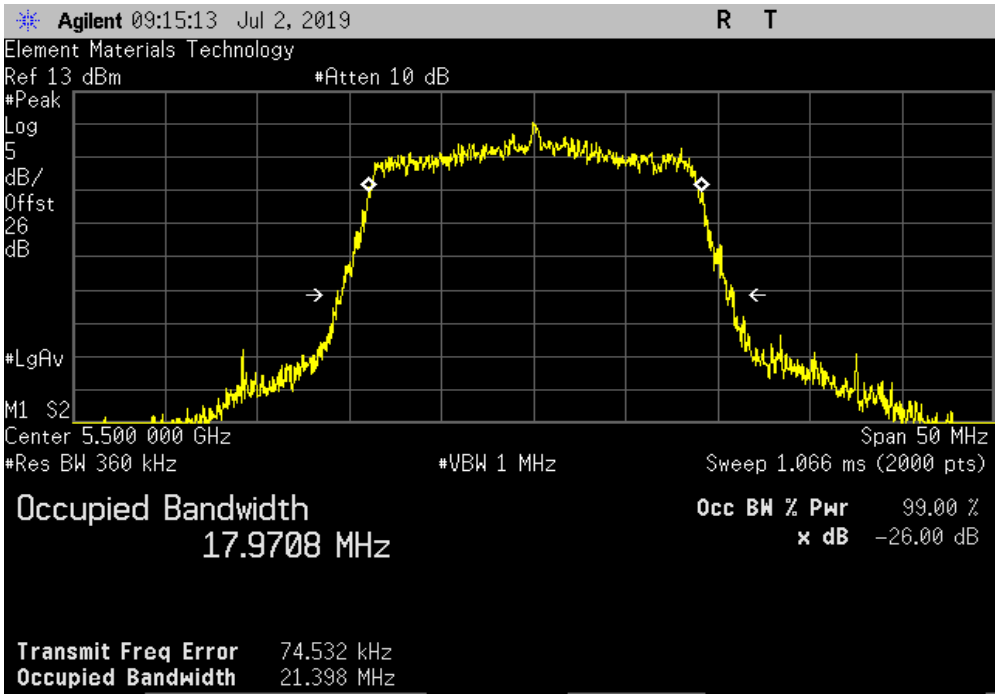
20 MHz, 802.11(n) MCS0, Ch 60, Mid Channel 5300 MHz						
				Value (26 dB)	Limit (>)	Result
				21.424 MHz	500 kHz	Pass



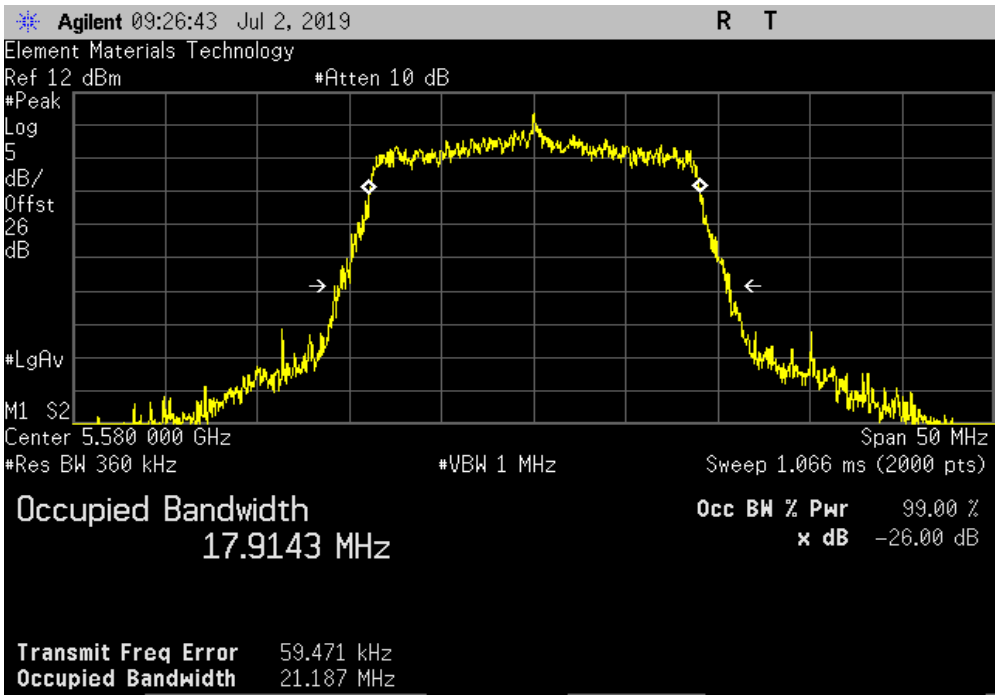
20 MHz, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz						
				Value (26 dB)	Limit (>)	Result
				21.282 MHz	500 kHz	Pass



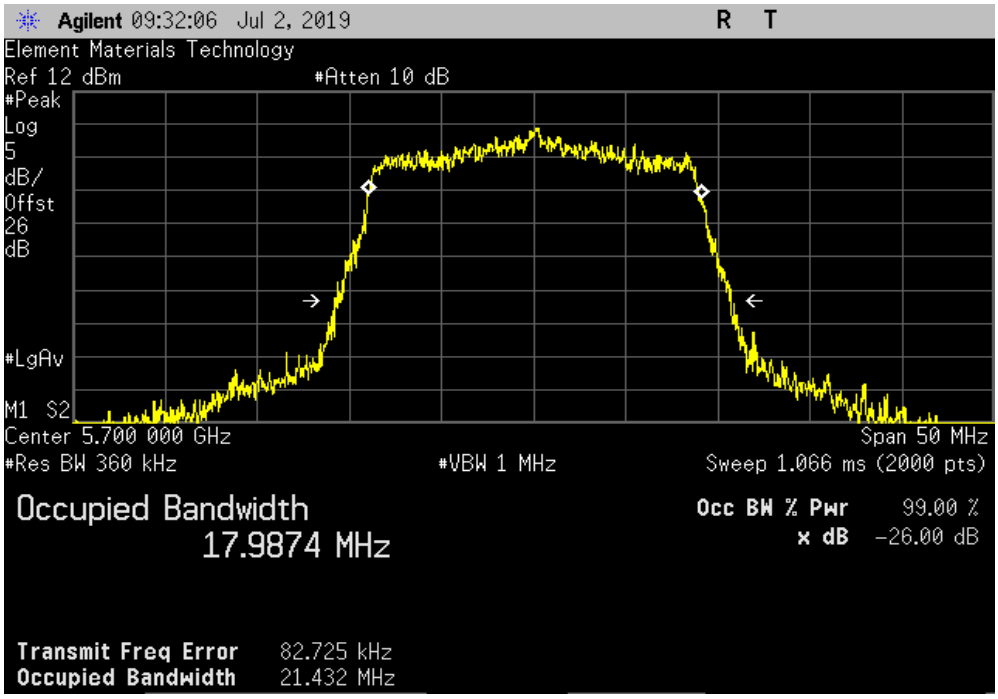
20 MHz, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz						
				Value (26 dB)	Limit (>)	Result
				21.398 MHz	500 kHz	Pass



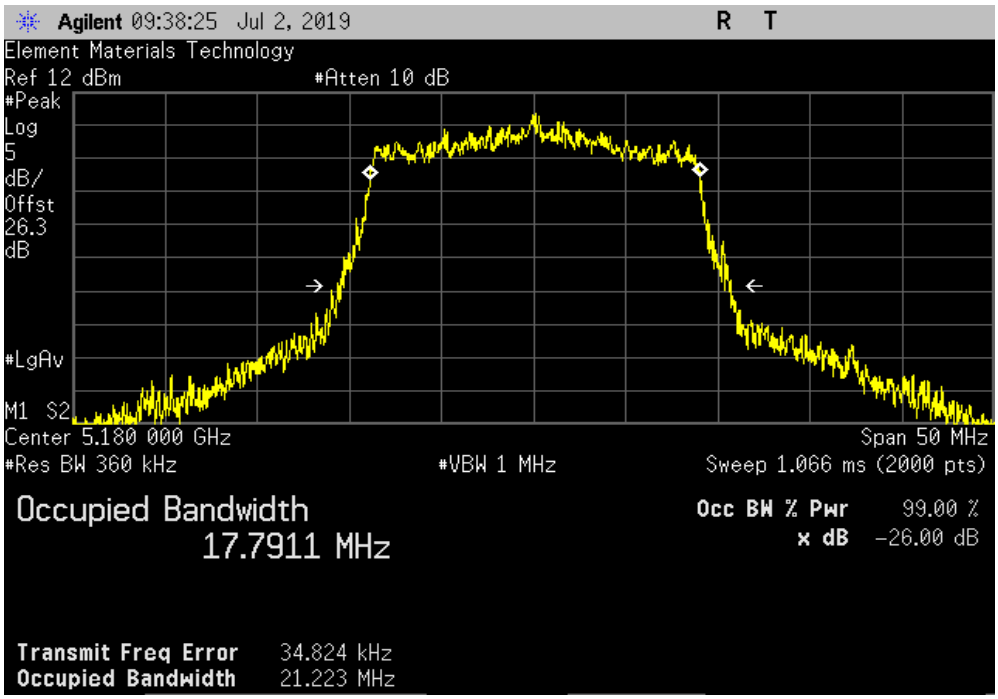
20 MHz, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz						
				Value (26 dB)	Limit (>)	Result
				21.187 MHz	500 kHz	Pass



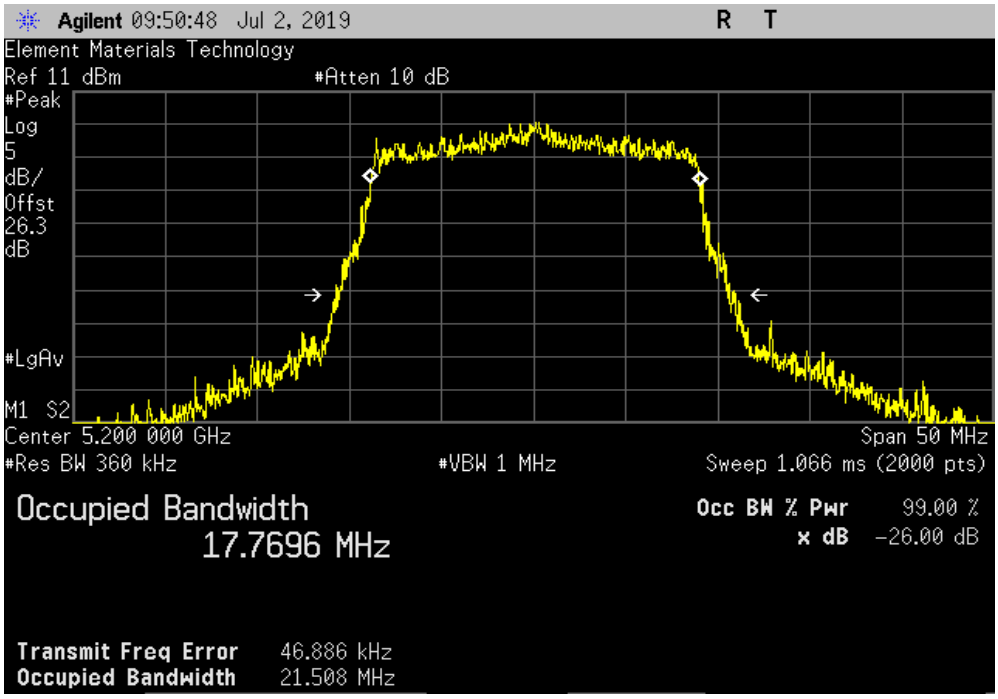
20 MHz, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz						
				Value (26 dB)	Limit (>)	Result
				21.432 MHz	500 kHz	Pass



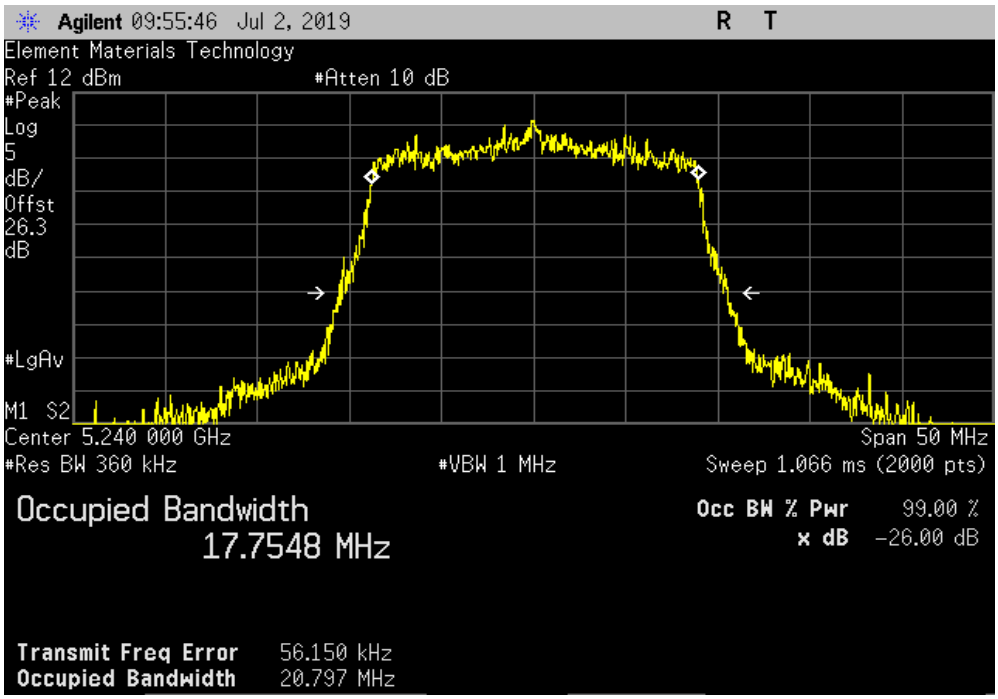
20 MHz, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
				Value (26 dB)	Limit (>)	Result
				21.223 MHz	500 kHz	Pass



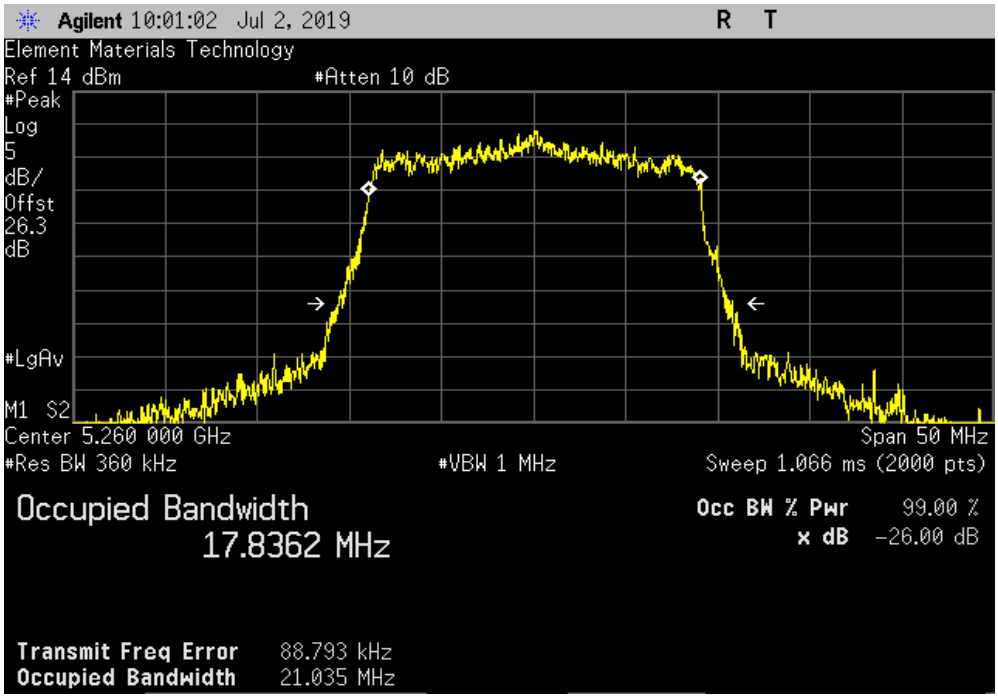
20 MHz, 802.11(n) MCS7, Ch 40, Mid Channel 5200 MHz						
				Value (26 dB)	Limit (>)	Result
				21.508 MHz	500 kHz	Pass



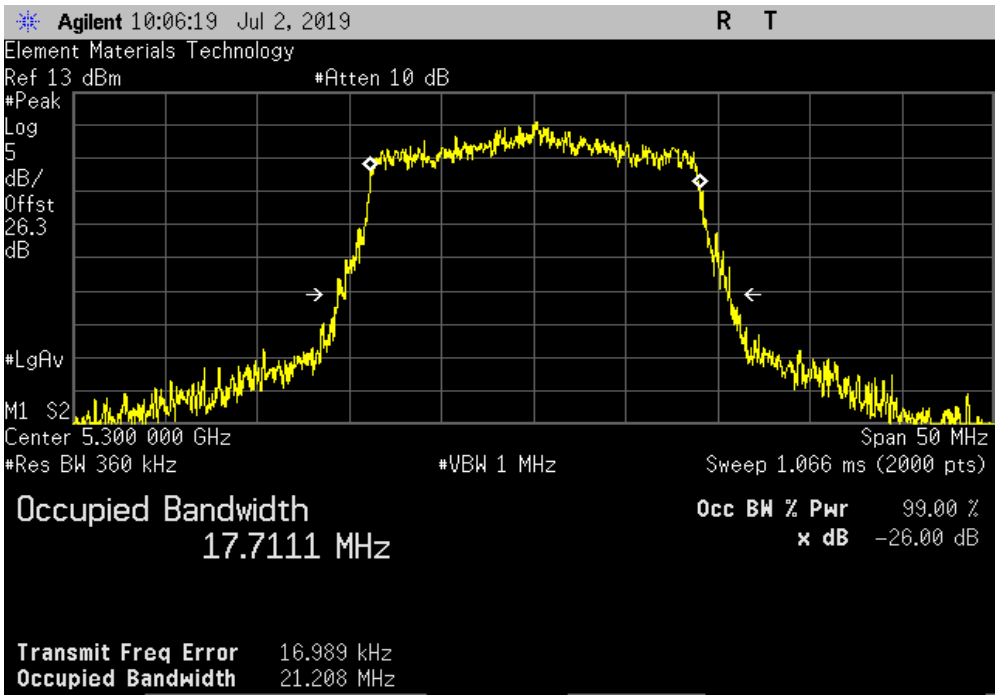
20 MHz, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
				Value (26 dB)	Limit (>)	Result
				20.797 MHz	500 kHz	Pass



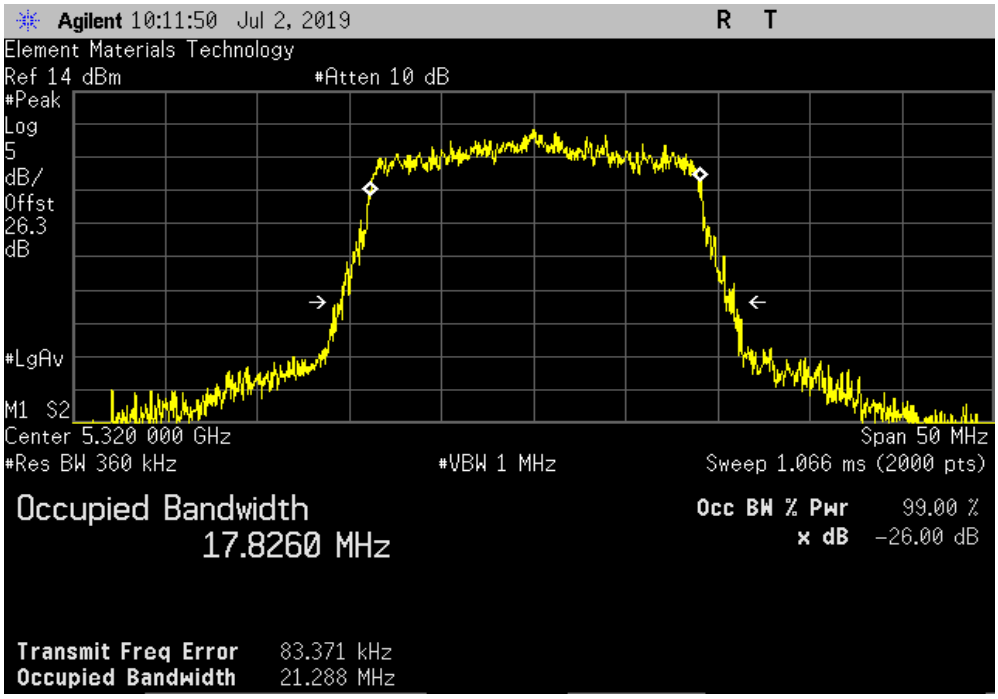
20 MHz, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz						
				Value (26 dB)	Limit (>)	Result
				21.035 MHz	500 kHz	Pass



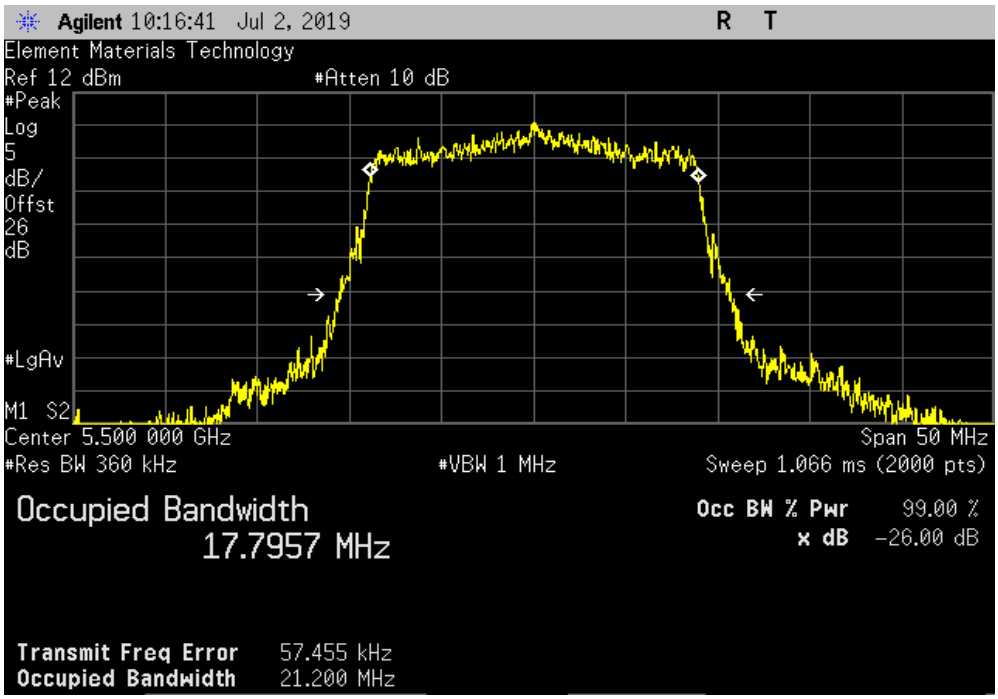
20 MHz, 802.11(n) MCS7, Ch 60, Mid Channel 5300 MHz						
				Value (26 dB)	Limit (>)	Result
				21.208 MHz	500 kHz	Pass



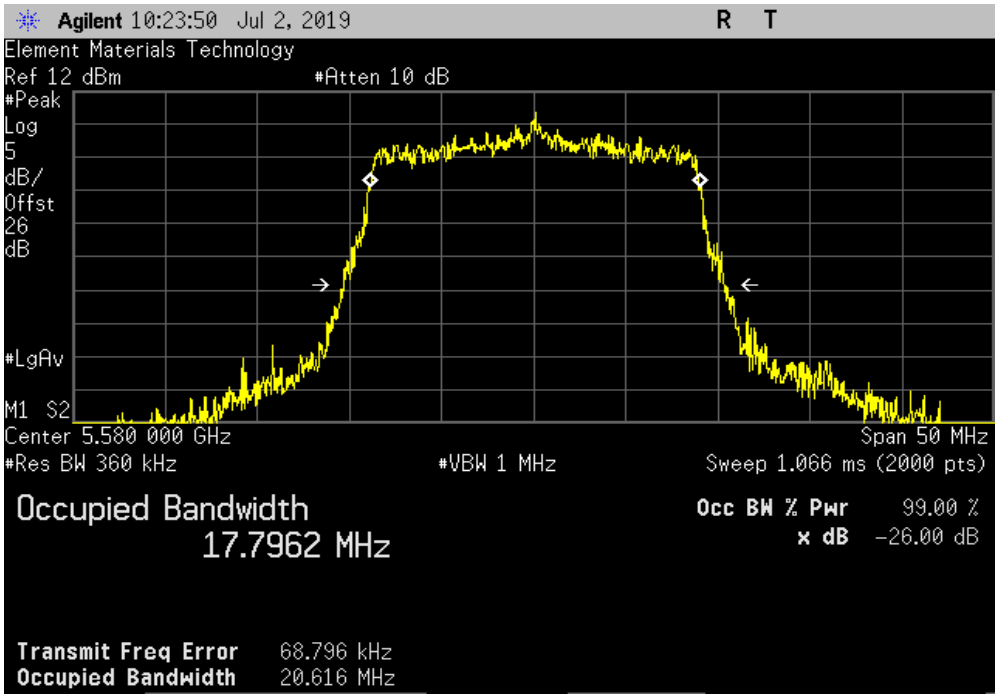
20 MHz, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz						
				Value (26 dB)	Limit (>)	Result
				21.288 MHz	500 kHz	Pass



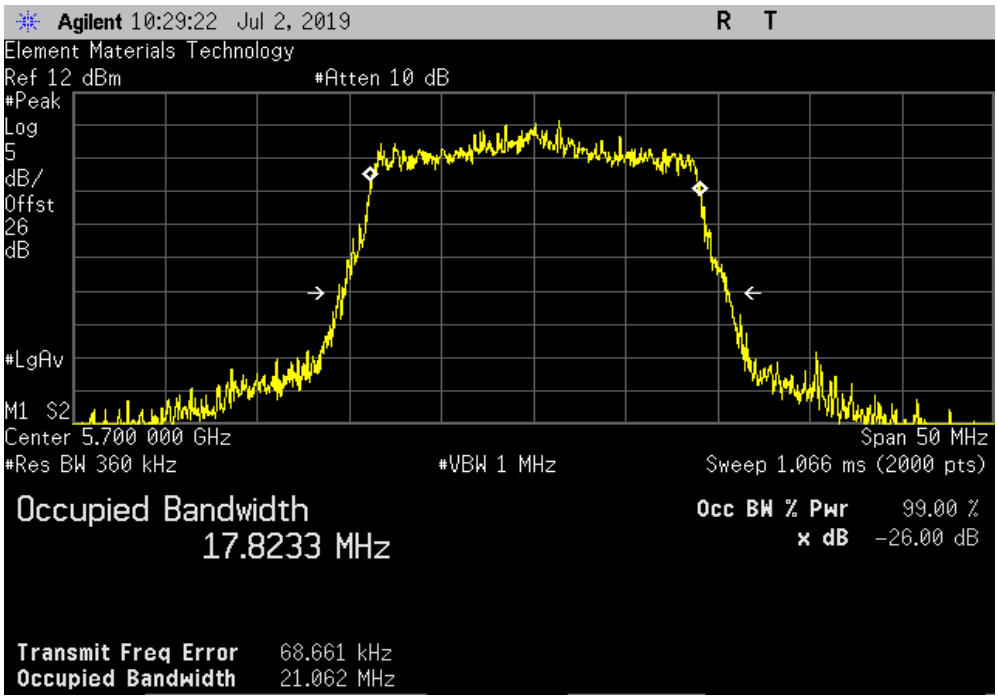
20 MHz, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz						
				Value (26 dB)	Limit (>)	Result
				21.2 MHz	500 kHz	Pass



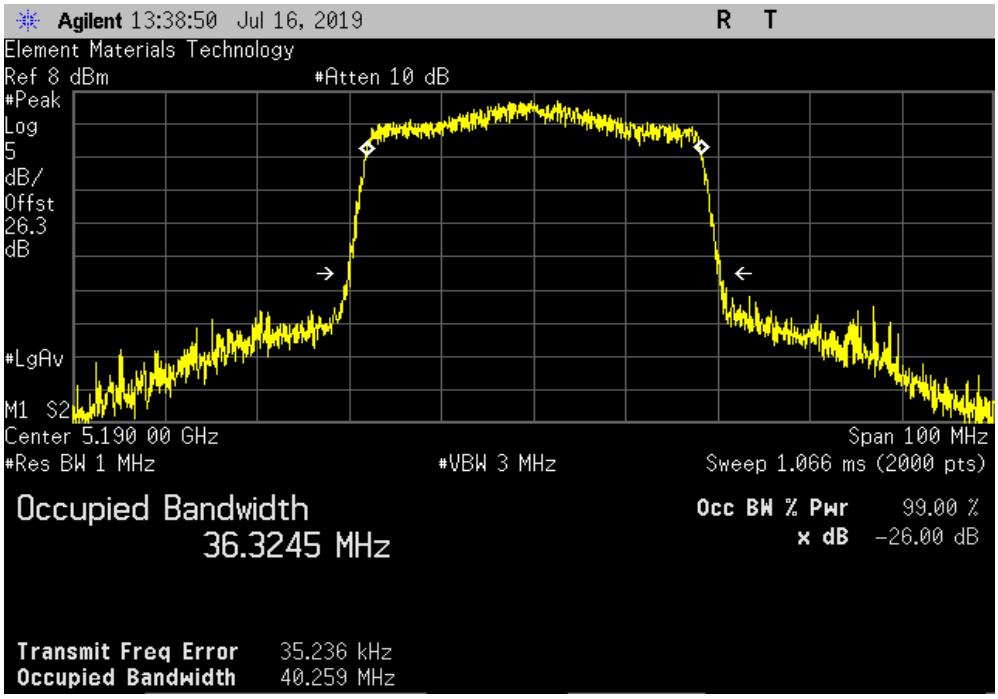
20 MHz, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz						
				Value (26 dB)	Limit (>)	Result
				20.616 MHz	500 kHz	Pass



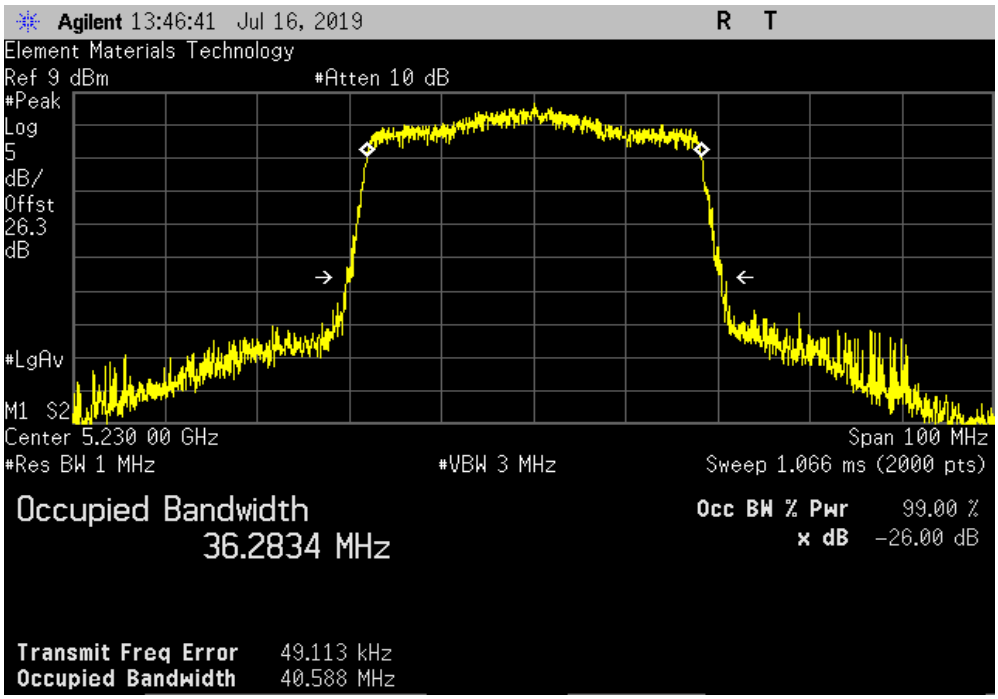
20 MHz, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz						
				Value (26 dB)	Limit (>)	Result
				21.062 MHz	500 kHz	Pass



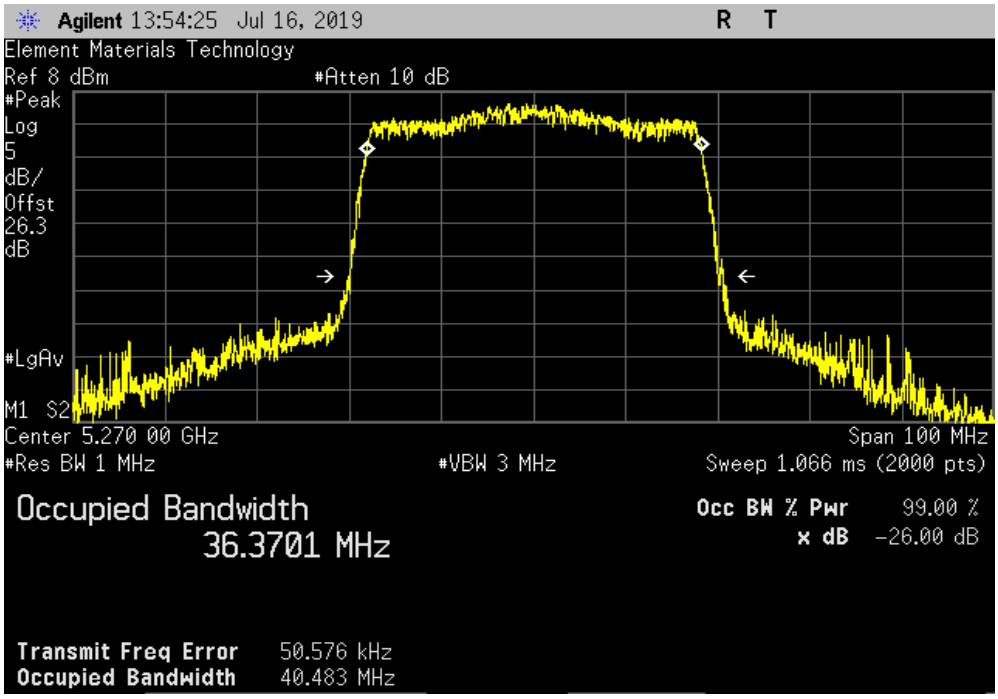
40 MHz, 802.11(n) MCS0, Ch 36/40, Low Channel 5190 MHz						
				Value (26 dB)	Limit (>)	Result
				40.259 MHz	500 kHz	Pass



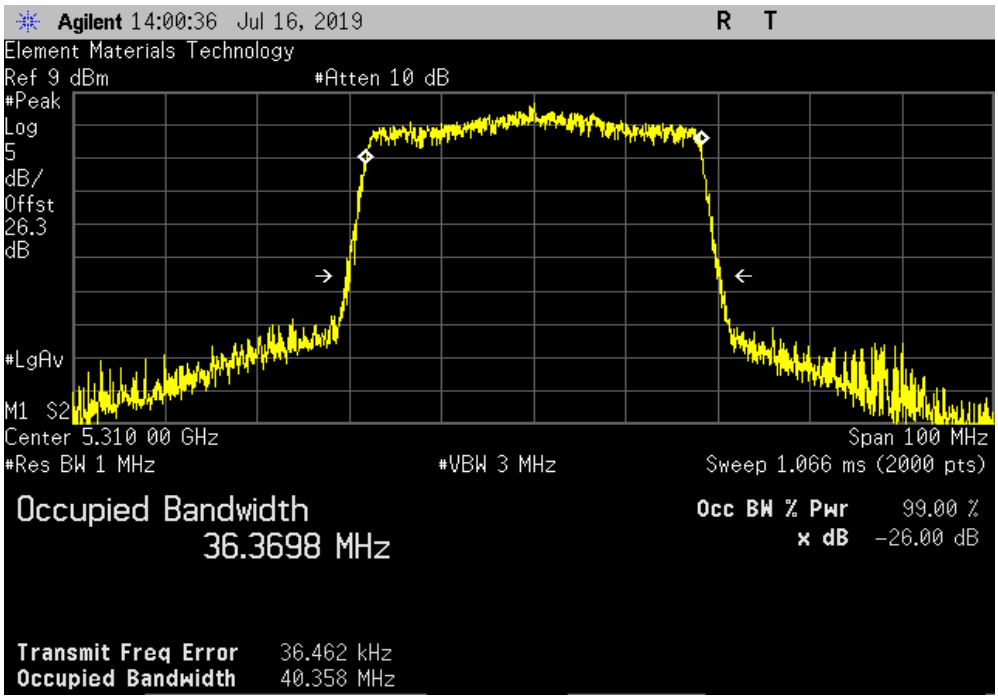
40 MHz, 802.11(n) MCS0, Ch 44/48, High Channel 5230 MHz						
				Value (26 dB)	Limit (>)	Result
				40.588 MHz	500 kHz	Pass



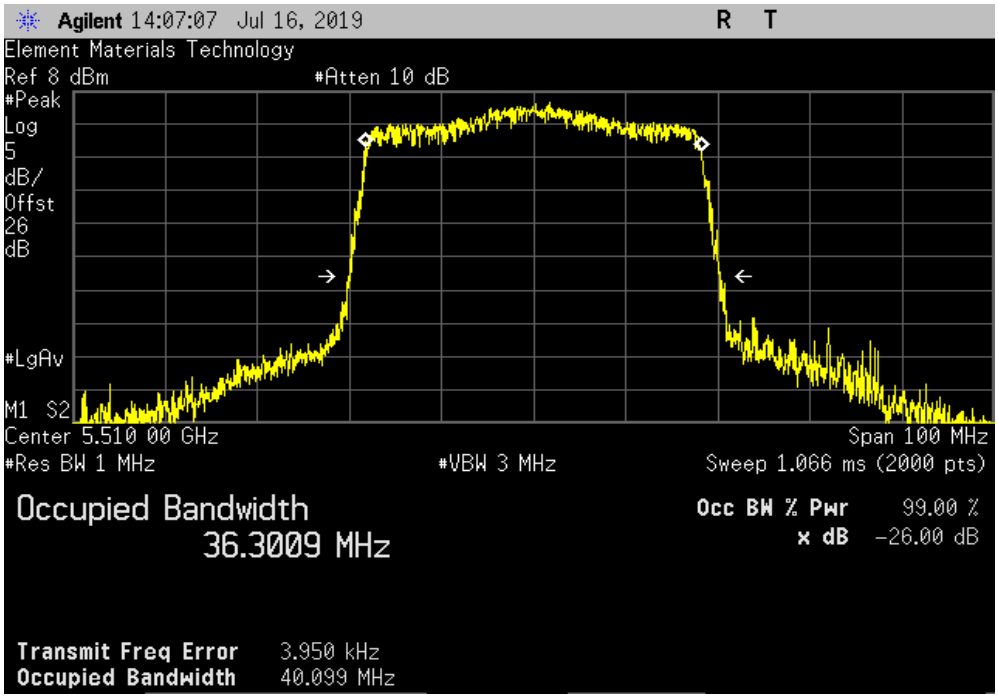
40 MHz, 802.11(n) MCS0, Ch 52/56, Low Channel 5270 MHz						
				Value (26 dB)	Limit (>)	Result
				40.483 MHz	500 kHz	Pass



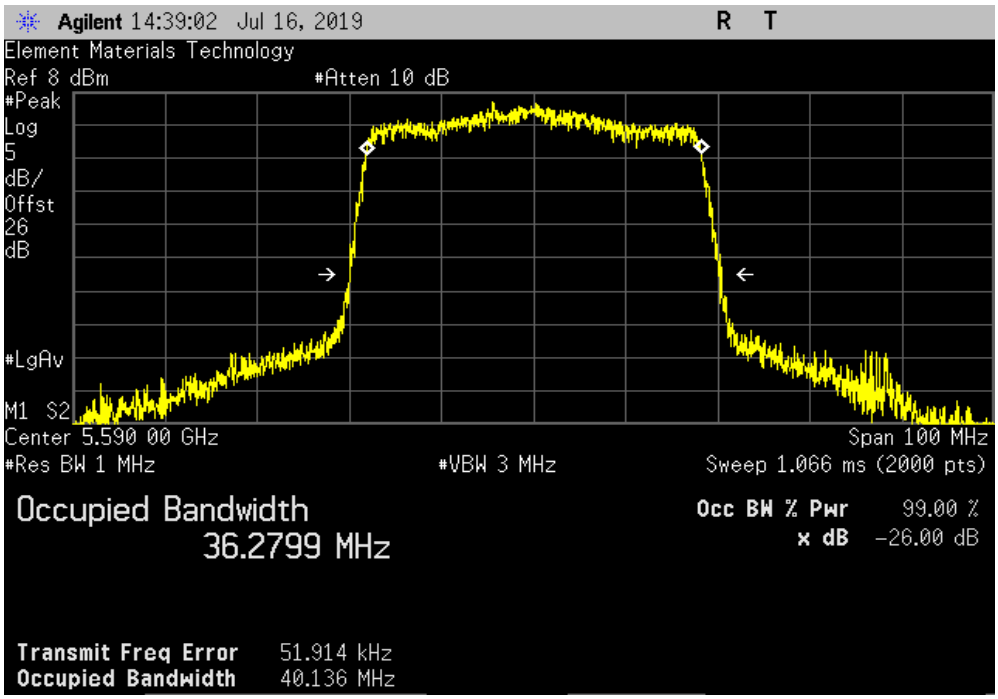
40 MHz, 802.11(n) MCS0, Ch 60/64, High Channel 5310 MHz						
				Value (26 dB)	Limit (>)	Result
				40.358 MHz	500 kHz	Pass



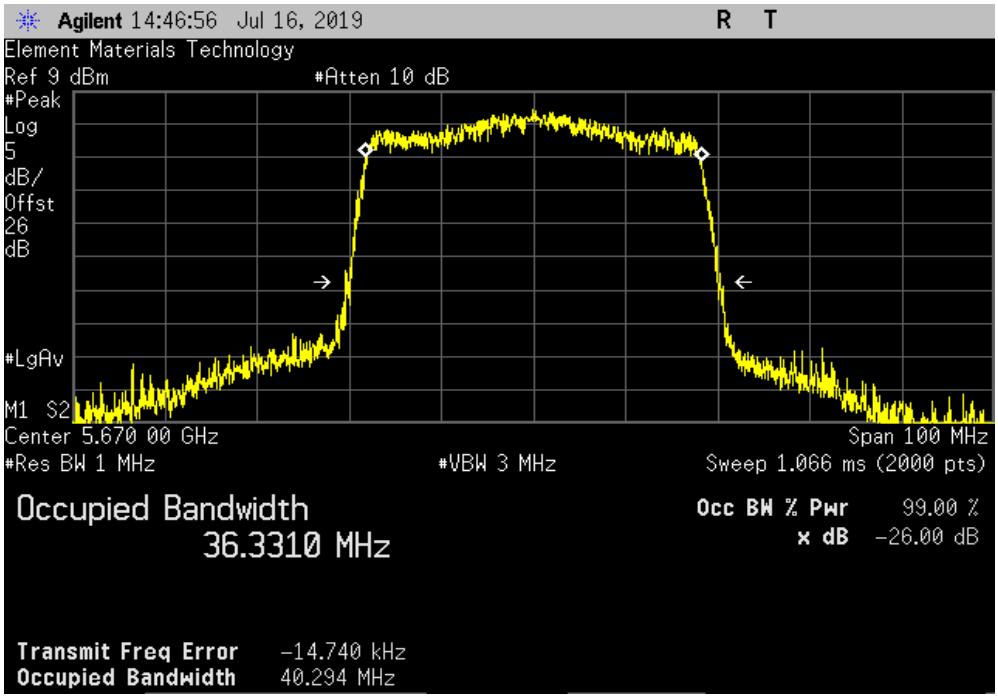
40 MHz, 802.11(n) MCS0, Ch 100/104, Low Channel 5510 MHz						
				Value (26 dB)	Limit (>)	Result
				40.099 MHz	500 kHz	Pass



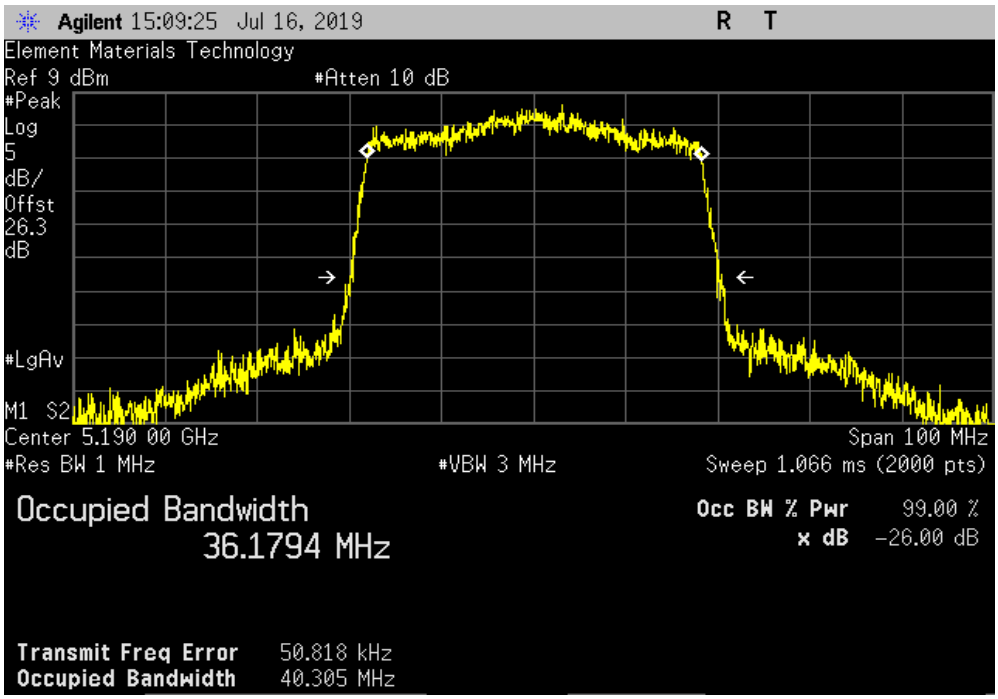
40 MHz, 802.11(n) MCS0, Ch 116/120, Mid Channel 5590 MHz						
				Value (26 dB)	Limit (>)	Result
				40.136 MHz	500 kHz	Pass



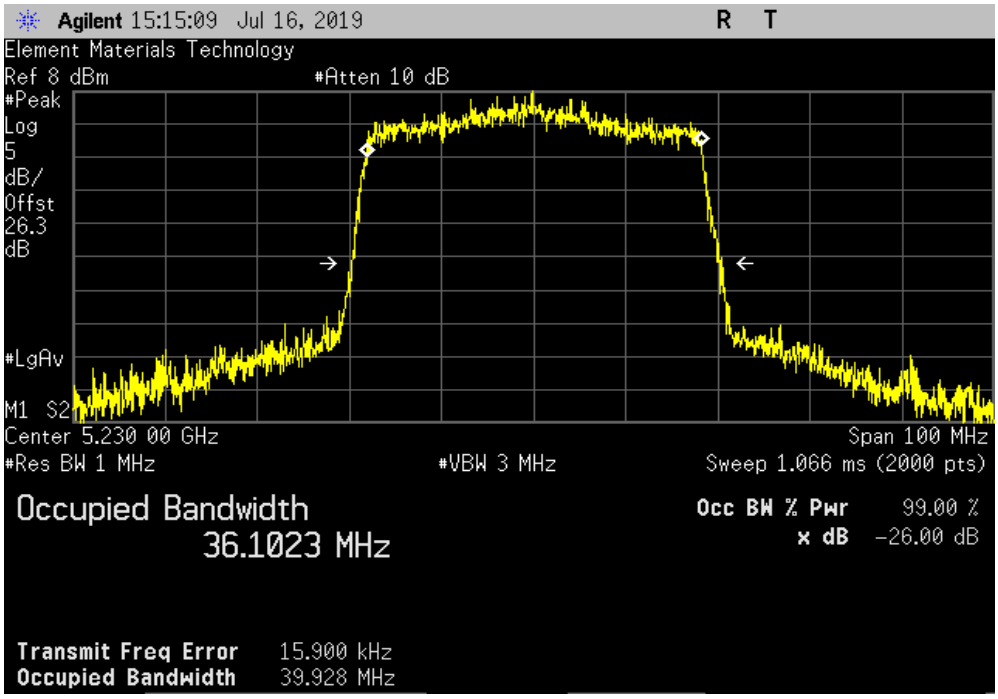
40 MHz, 802.11(n) MCS0, Ch 132/136, High Channel 5670 MHz						
				Value (26 dB)	Limit (>)	Result
				40.294 MHz	500 kHz	Pass



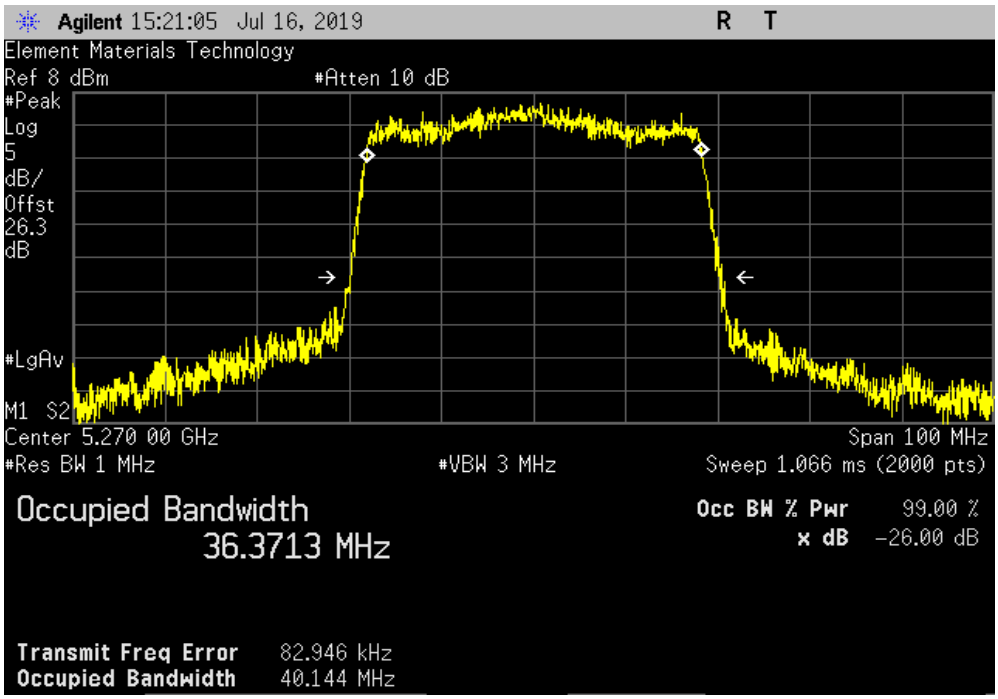
40 MHz, 802.11(n) MCS7, Ch 36/40, Low Channel 5190 MHz						
				Value (26 dB)	Limit (>)	Result
				40.305 MHz	500 kHz	Pass



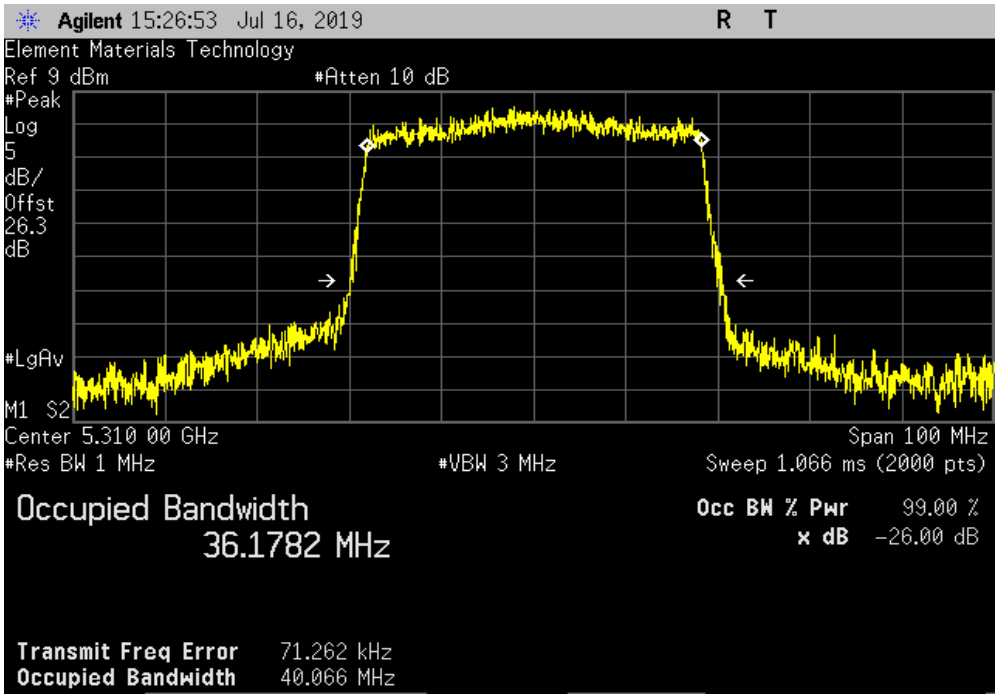
40 MHz, 802.11(n) MCS7, Ch 44/48, High Channel 5230 MHz						
				Value (26 dB)	Limit (>)	Result
				39.928 MHz	500 kHz	Pass



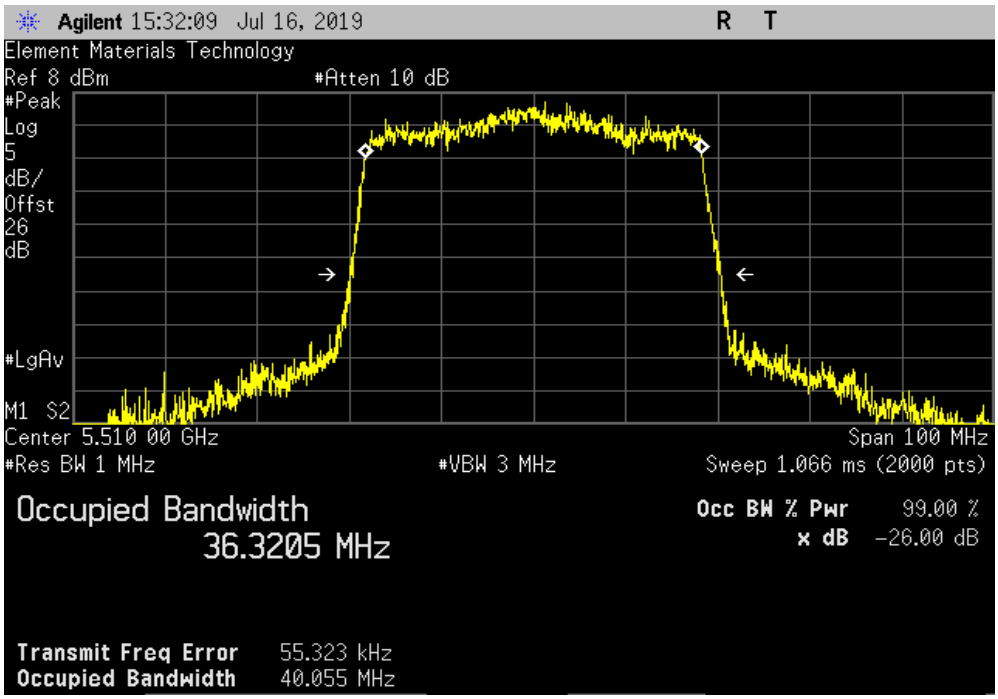
40 MHz, 802.11(n) MCS7, Ch 52/56, Low Channel 5270 MHz						
				Value (26 dB)	Limit (>)	Result
				40.144 MHz	500 kHz	Pass



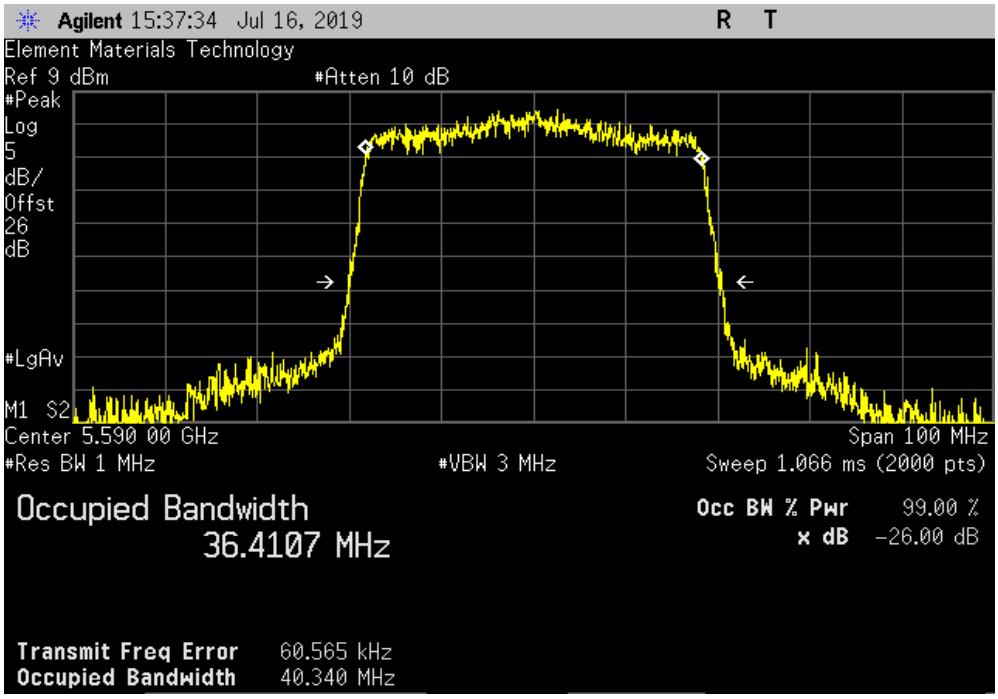
40 MHz, 802.11(n) MCS7, Ch 60/64, High Channel 5310 MHz						
				Value (26 dB)	Limit (>)	Result
				40.066 MHz	500 kHz	Pass



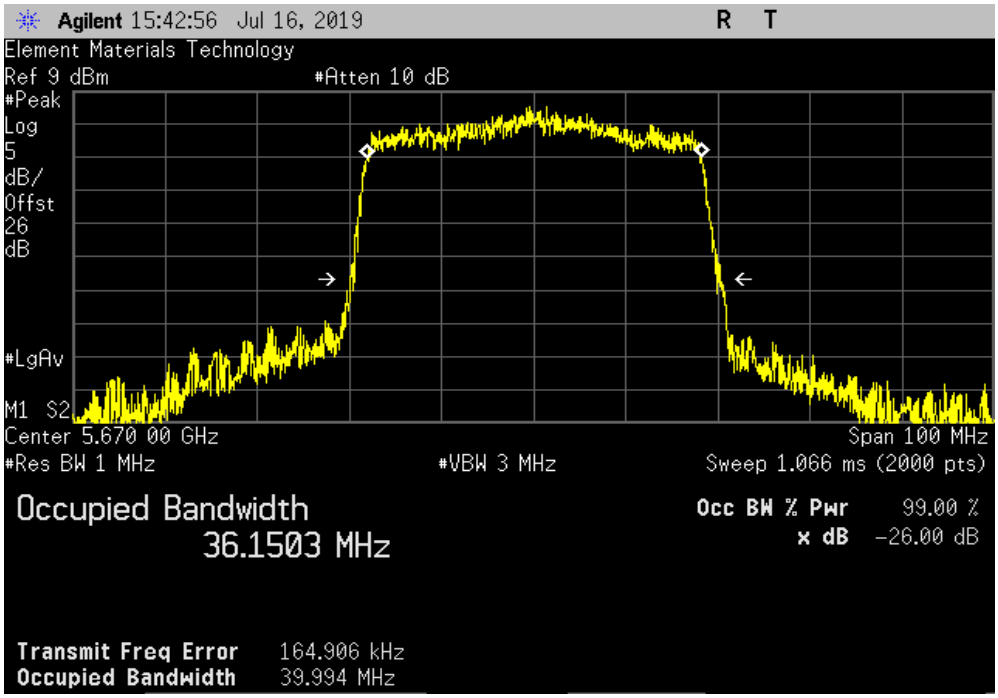
40 MHz, 802.11(n) MCS7, Ch 100/104, Low Channel 5510 MHz						
				Value (26 dB)	Limit (>)	Result
				40.055 MHz	500 kHz	Pass



40 MHz, 802.11(n) MCS7, Ch 116/120, Mid Channel 5590 MHz						
				Value (26 dB)	Limit (>)	Result
				40.34 MHz	500 kHz	Pass



40 MHz, 802.11(n) MCS7, Ch 132/136, High Channel 5670 MHz						
				Value (26 dB)	Limit (>)	Result
				39.994 MHz	500 kHz	Pass



BAND EDGE

XMit 2019.06.11

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
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	30-Nov-18	30-Nov-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The 99% emission bandwidth of the carrier was measured to ensure that no part of the emission of the carrier operating in a non-DFS band was operating in a band where DFS testing is required. This test is done with the U-NII-1 band (5.2 GHz band) to ensure no portion of the carrier is contained within the U-NII-2A band and with the U-NII-3 band (5.8 GHz band) to ensure no portion of the carrier is contained in the U-NII-2C band.

The transmit frequencies and data rates listed in the datasheet were measured.

BAND EDGE

TbtTx 2018.09.13 XMit 2019.06.11

EUT:	MWMII			Work Order:	MASI0553
Serial Number:	ENG-1			Date:	16-Jul-19
Customer:	Masimo Corporation			Temperature:	24..5 °C
Attendees:	Anami Joshi & Nghi Nguyen			Humidity:	47.2% RH
Project:	None			Barometric Pres.:	1015 mbar
Tested by:	Nolan De Ramos, Luis Flores, and Mark Baytan	Power:	3.6VDC	Job Site:	OC13

TEST SPECIFICATIONS	Test Method
FCC 15.407:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26.3dB Total Offset (5.2 GHz - 5.35 GHz)
Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26dB Total Offset (5.35 GHz - 5.8 GHz)

DEVIATIONS FROM TEST STANDARD

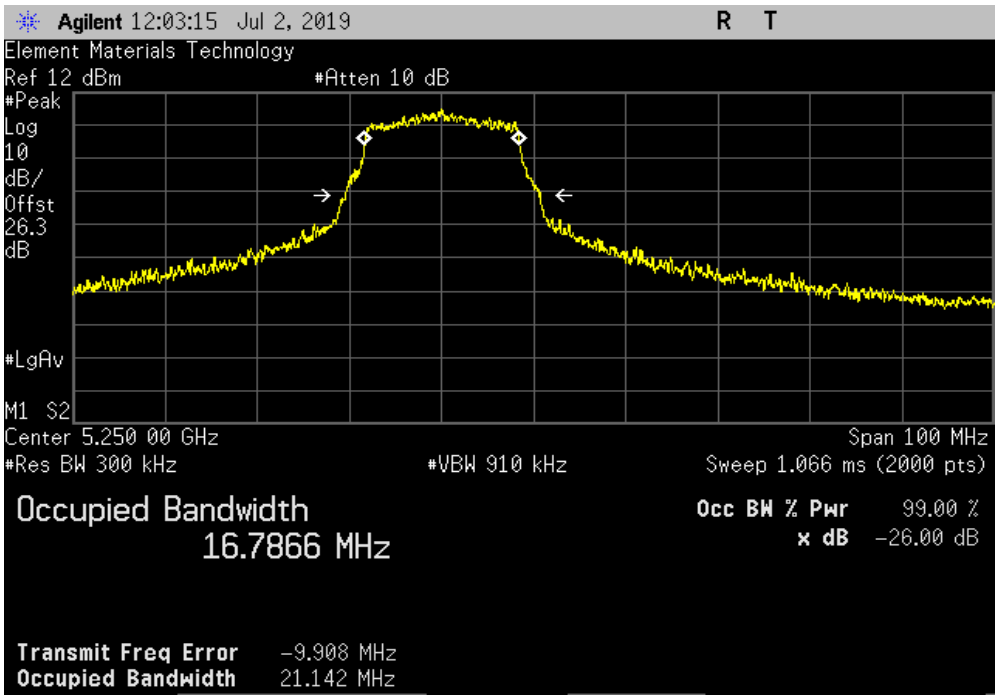
None

Configuration #	8	Signature

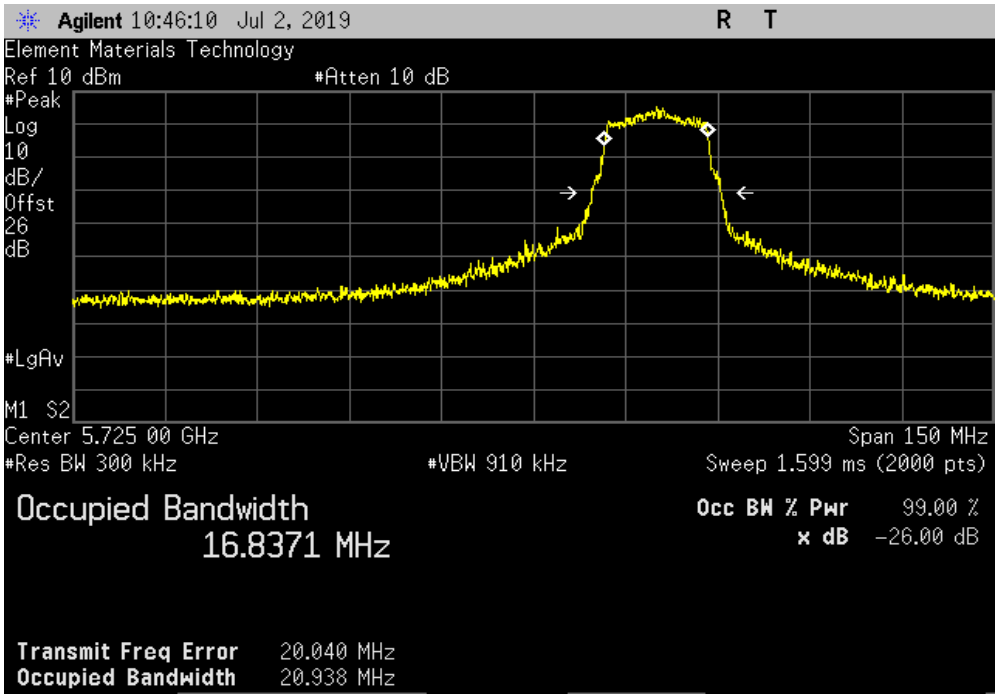
		OBW Within Band	Band Edge (MHz)	Result
20 MHz				
	802.11(a) 6 Mbps			
	Ch 48, High Channel 5240 MHz	Yes	5250	Pass
	Ch 149, Low Channel 5745 MHz	Yes	5725	Pass
	802.11(a) 36 Mbps			
	Ch 48, High Channel 5240 MHz	Yes	5250	Pass
	Ch 149, Low Channel 5745 MHz	Yes	5725	Pass
	802.11(a) 54 Mbps			
	Ch 48, High Channel 5240 MHz	Yes	5250	Pass
	Ch 149, Low Channel 5745 MHz	Yes	5725	Pass
	802.11(n) MCS0			
	Ch 48, High Channel 5240 MHz	Yes	5250	Pass
	Ch 149, Low Channel 5745 MHz	Yes	5725	Pass
	802.11(n) MCS7			
	Ch 48, High Channel 5240 MHz	Yes	5250	Pass
	Ch 149, Low Channel 5745 MHz	Yes	5725	Pass
40 MHz				
	802.11(n) MCS0			
	Ch 44/48, High Channel 5230 MHz	Yes	5250	Pass
	Ch 149/153, Low Channel 5755 MHz	Yes	5725	Pass
	802.11(n) MCS7			
	Ch 44/48, High Channel 5230 MHz	Yes	5250	Pass
	Ch 149/153, Low Channel 5755 MHz	Yes	5725	Pass

BAND EDGE

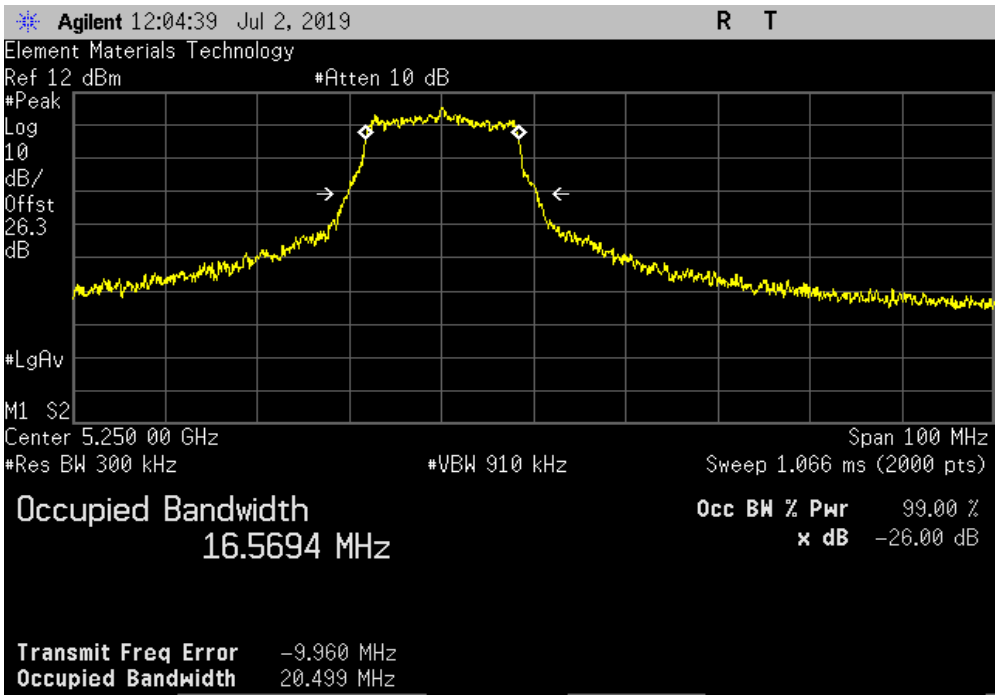
20 MHz, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass



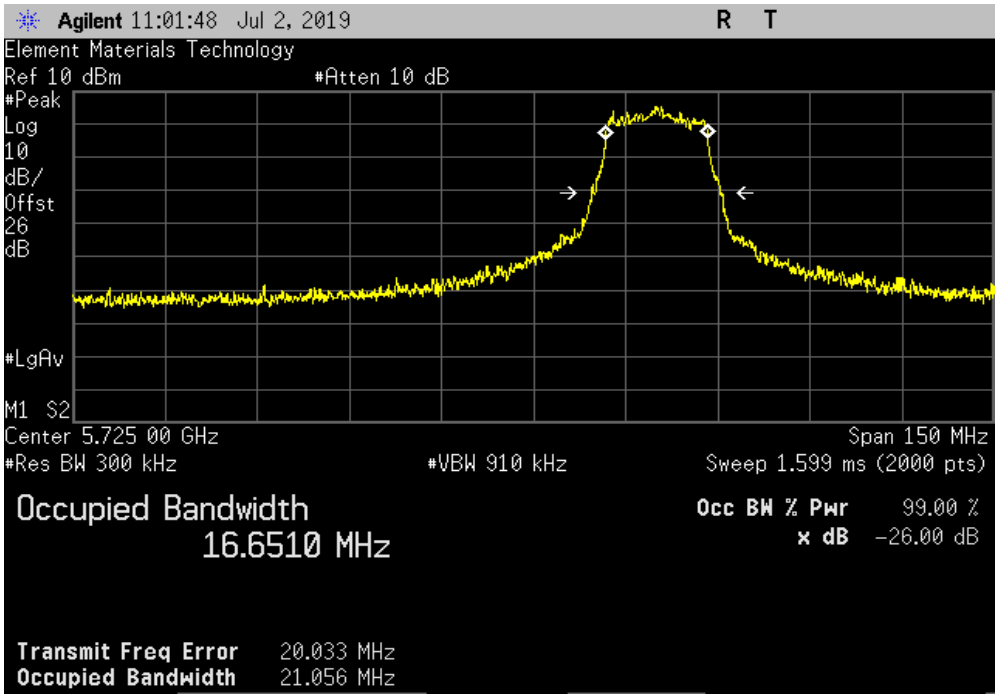
20 MHz, 802.11(a) 6 Mbps, Ch 149, Low Channel 5745 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5725	Pass



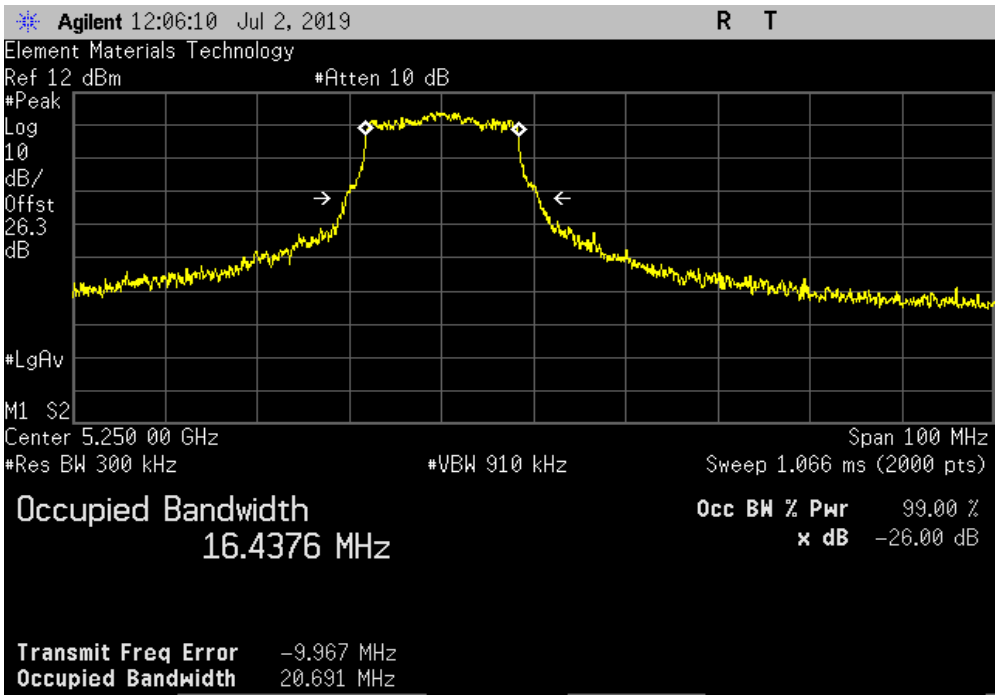
20 MHz, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass



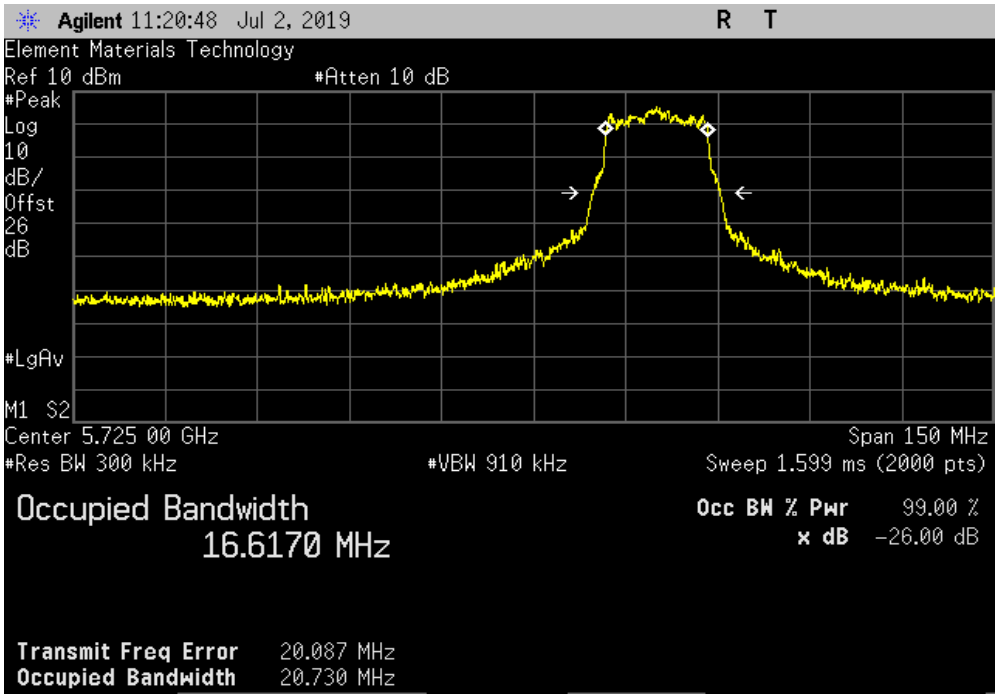
20 MHz, 802.11(a) 36 Mbps, Ch 149, Low Channel 5745 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5725	Pass



20 MHz, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass

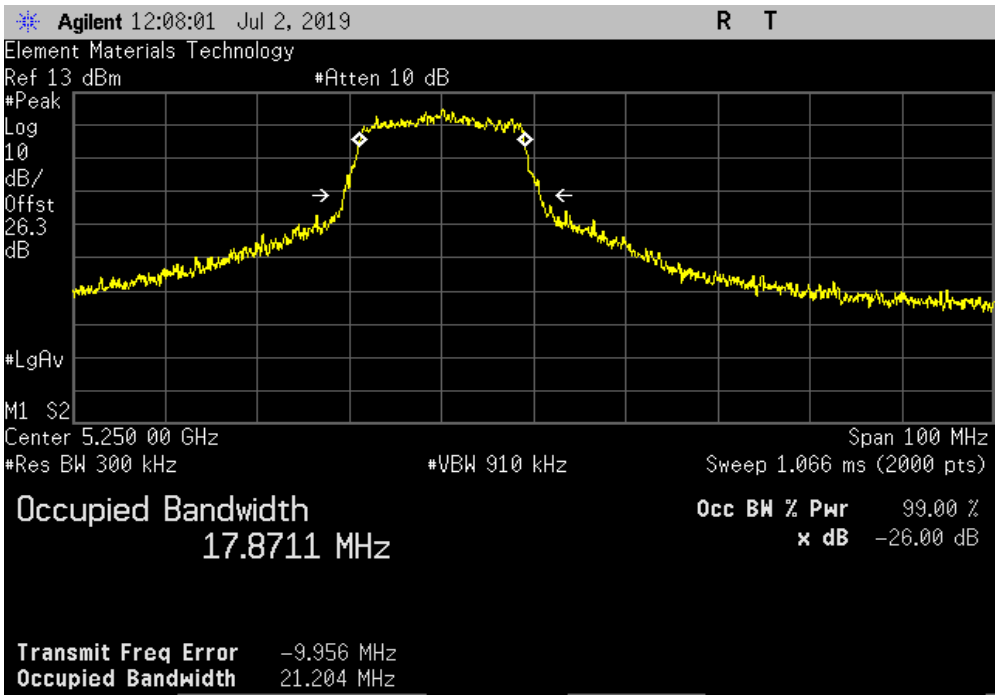


20 MHz, 802.11(a) 54 Mbps, Ch 149, Low Channel 5745 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5725	Pass



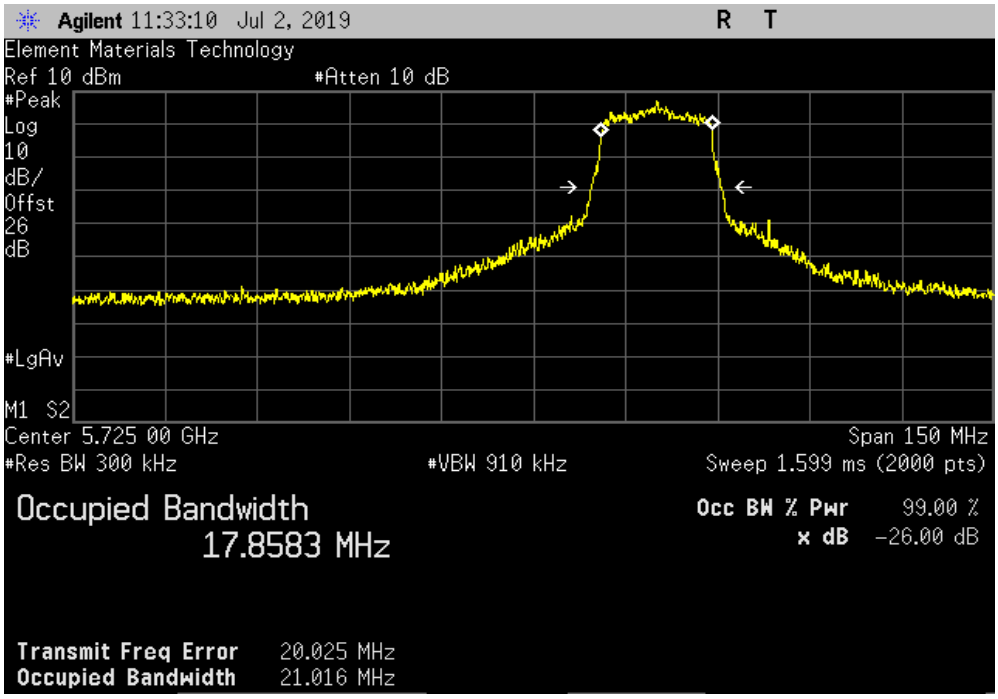
20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz

				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass



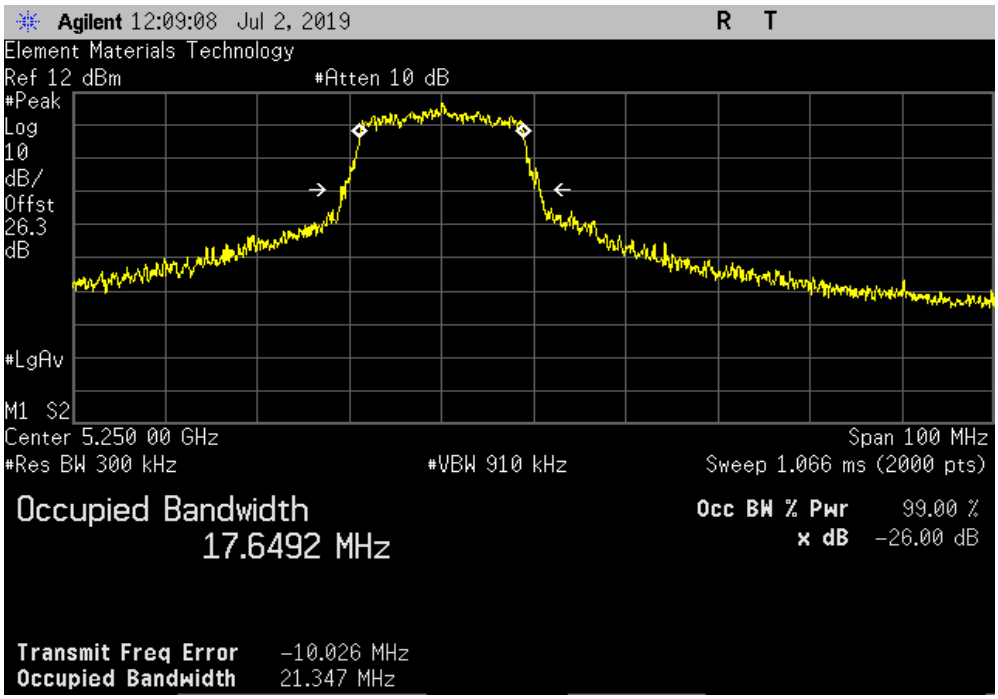
20 MHz, 802.11(n) MCS0, Ch 149, Low Channel 5745 MHz

				OBW Within Band	Band Edge (MHz)	Result
				Yes	5725	Pass



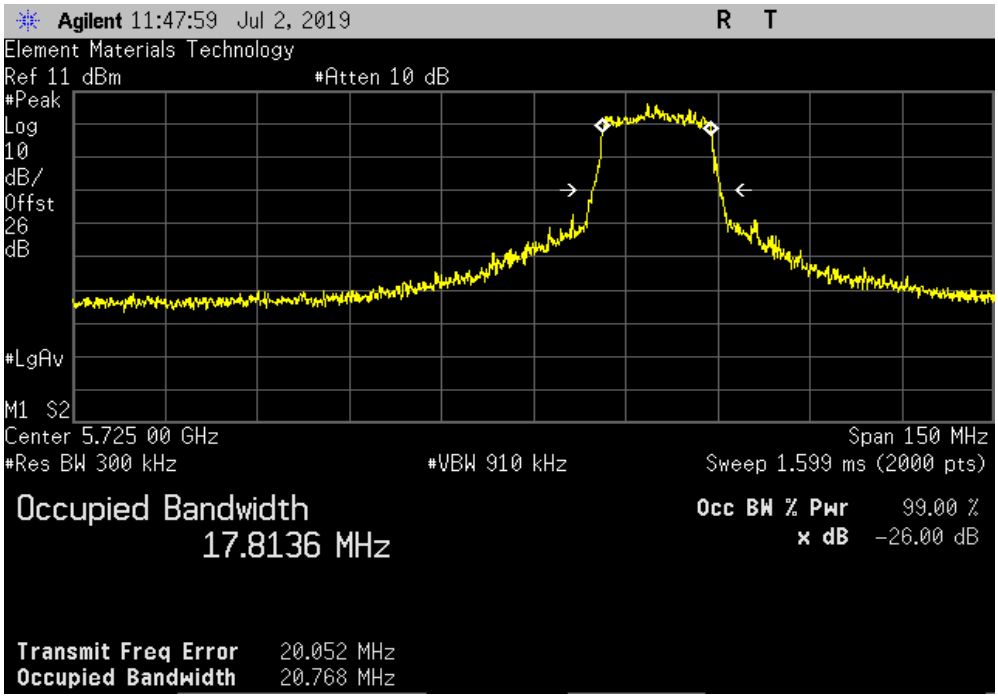
20 MHz, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz

				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass

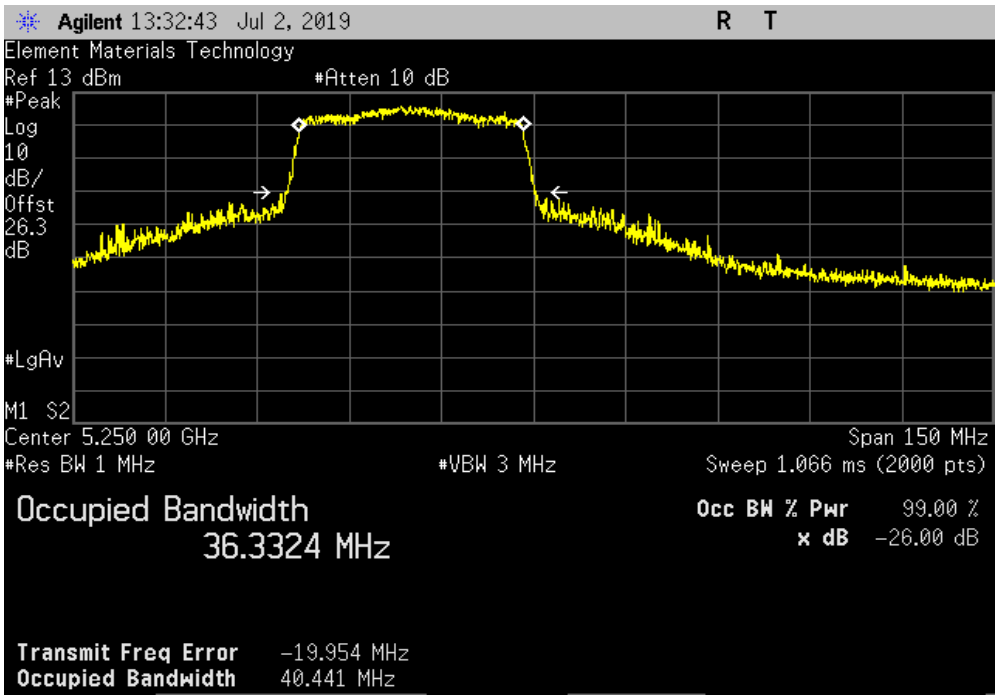


20 MHz, 802.11(n) MCS7, Ch 149, Low Channel 5745 MHz

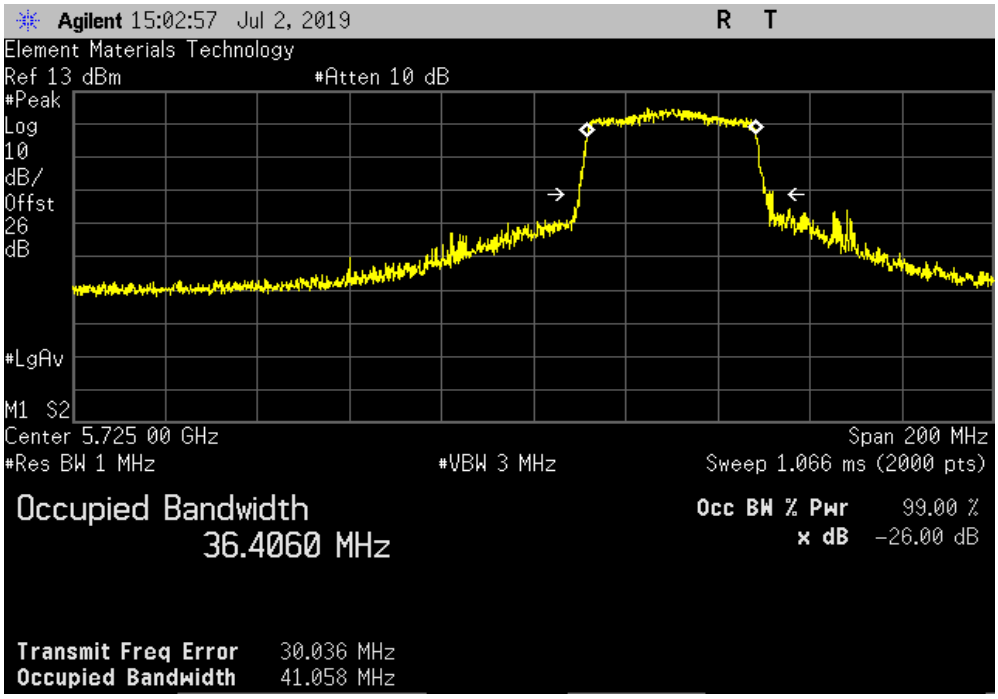
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5725	Pass



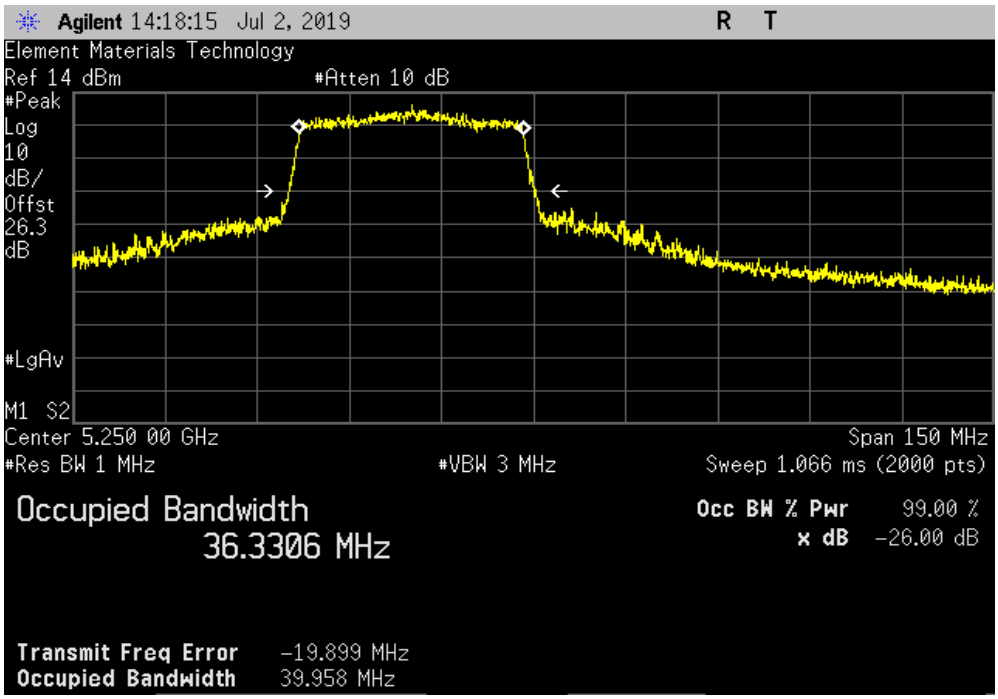
40 MHz, 802.11(n) MCS0, Ch 44/48, High Channel 5230 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass



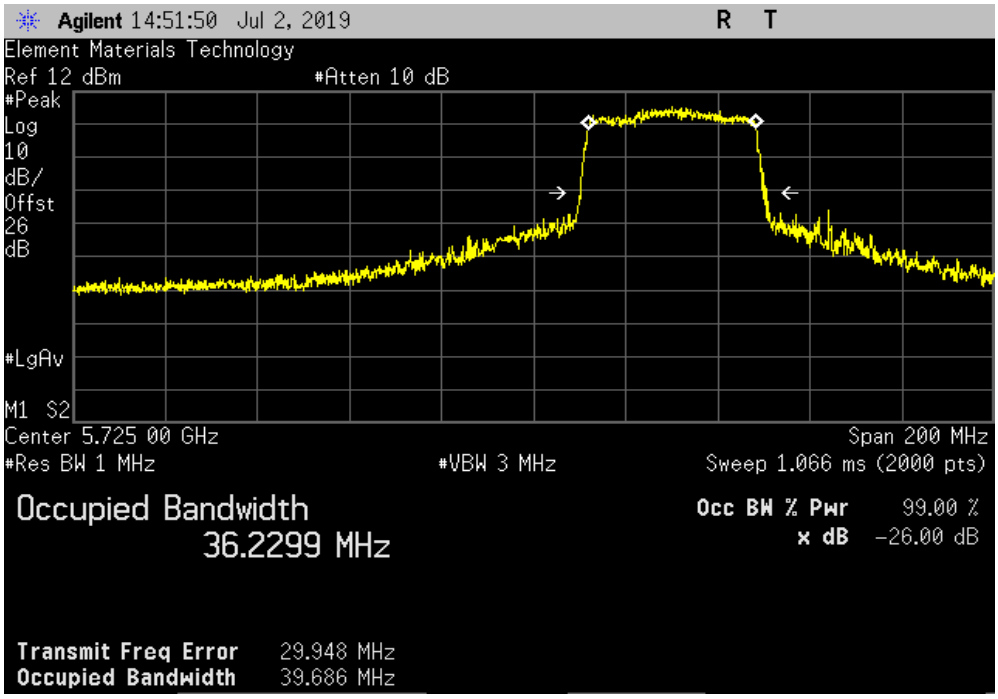
40 MHz, 802.11(n) MCS0, Ch 149/153, Low Channel 5755 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5725	Pass



40 MHz, 802.11(n) MCS7, Ch 44/48, High Channel 5230 MHz							
					OBW Within Band	Band Edge (MHz)	Result
					Yes	5250	Pass



40 MHz, 802.11(n) MCS7, Ch 149/153, Low Channel 5755 MHz							
					OBW Within Band	Band Edge (MHz)	Result
					Yes	5725	Pass



OCCUPIED BANDWIDTH

XMit 2019.05.15

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
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	30-Nov-18	30-Nov-19

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. The transmit power was set to its default maximum.

Per ANSI C63.10, the spectrum analyzer settings were as follows:

-RBW = 100 kHz

-VBW = ≥ 3x RBW

-Detector = Peak

-Trace mode = max hold

The spectrum analyzer occupied bandwidth measurement function was then used to measure the 6 dB emission bandwidth.

OCCUPIED BANDWIDTH

element

TbtTx 2018.09.13 XMit 2019.05.15

EUT:	**MWMII**			**Work Order:**	**MASI0553**
Serial Number:	**ENG-1**			**Date:**	**16-Jul-19**
Customer:	**Masimo Corporation**			**Temperature:**	**24..5 °C**
Attendees:	**Anami Joshi & Nghi Nguyen**			**Humidity:**	**47.2% RH**
Project:	**None**			**Barometric Pres.:**	**1015 mbar**
Tested by:	**Nolan De Ramos, Luis Flores, and Mark Baytan**	**Power:**	**3.6VDC**	**Job Site:**	**OC13**

TEST SPECIFICATIONS	**Test Method**
FCC 15.407:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26.3dB Total Offset (5.2 GHz - 5.35 GHz)
Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26dB Total Offset (5.35 GHz - 5.8 GHz)

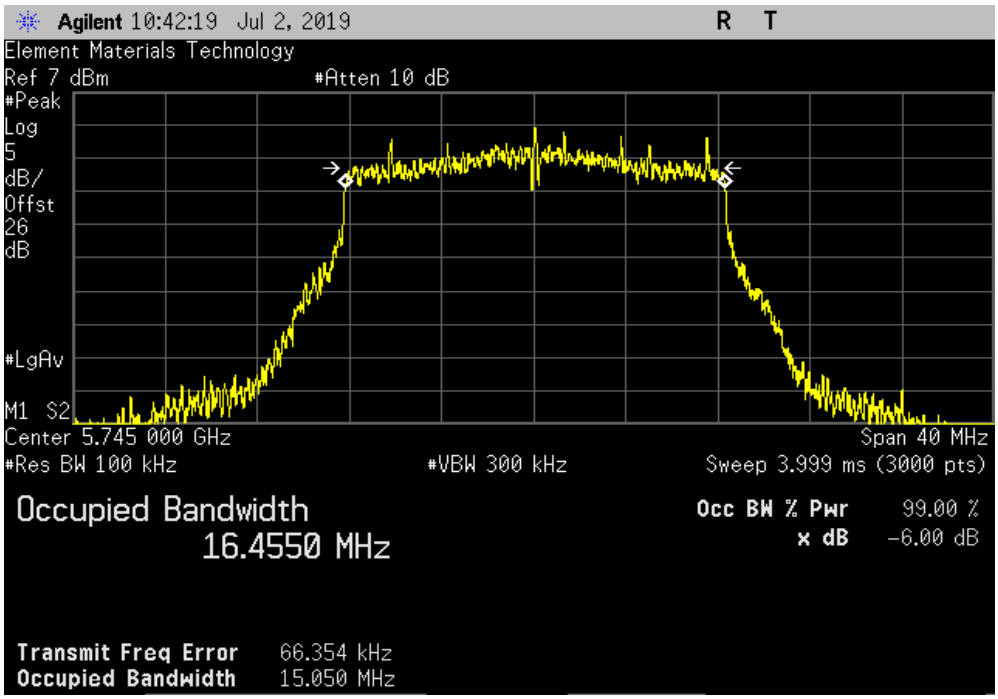
DEVIATIONS FROM TEST STANDARD

None

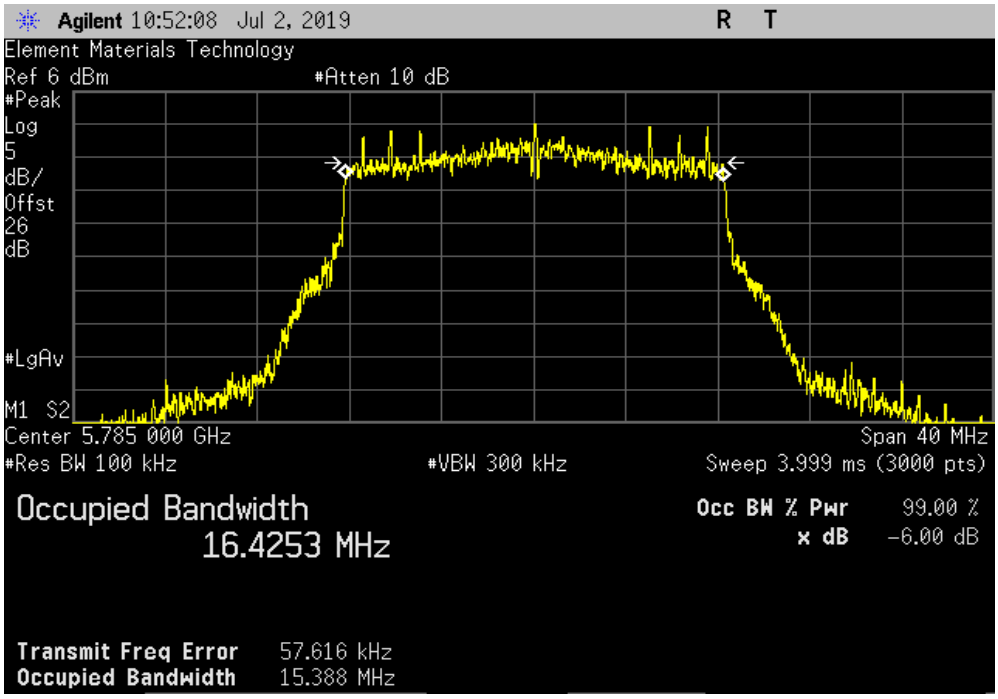
Configuration #	**8**	

		Value (99%)	Value (6 dB)	Limit (>)	Result
20 MHz					
	802.11(a) 6 Mbps				
	Ch 149, Low Channel 5745 MHz	16.455 MHz	15.05 MHz	500 kHz	Pass
	Ch 157, Mid Channel 5785 MHz	16.425 MHz	15.388 MHz	500 kHz	Pass
	Ch 165, High Channel 5825 MHz	16.44 MHz	14.228 MHz	500 kHz	Pass
	802.11(a) 36 Mbps				
	Ch 149, Low Channel 5745 MHz	16.361 MHz	15.981 MHz	500 kHz	Pass
	Ch 157, Mid Channel 5785 MHz	16.373 MHz	15.678 MHz	500 kHz	Pass
	Ch 165, High Channel 5825 MHz	16.407 MHz	14.901 MHz	500 kHz	Pass
	802.11(a) 54 Mbps				
	Ch 149, Low Channel 5745 MHz	16.377 MHz	15.621 MHz	500 kHz	Pass
	Ch 157, Mid Channel 5785 MHz	16.366 MHz	15.515 MHz	500 kHz	Pass
	Ch 165, High Channel 5825 MHz	16.365 MHz	15.459 MHz	500 kHz	Pass
	802.11(n) MCS0				
	Ch 149, Low Channel 5745 MHz	17.64 MHz	15.918 MHz	500 kHz	Pass
	Ch 157, Mid Channel 5785 MHz	17.643 MHz	16.341 MHz	500 kHz	Pass
	Ch 165, High Channel 5825 MHz	17.637 MHz	14.199 MHz	500 kHz	Pass
	802.11(n) MCS7				
	Ch 149, Low Channel 5745 MHz	17.593 MHz	16.509 MHz	500 kHz	Pass
	Ch 157, Mid Channel 5785 MHz	17.569 MHz	16.812 MHz	500 kHz	Pass
	Ch 165, High Channel 5825 MHz	17.582 MHz	15.833 MHz	500 kHz	Pass
40 MHz					
	802.11(n) MCS0				
	Ch 149/153, Low Channel 5755 MHz	36.333 MHz	40.381 MHz	500 kHz	Pass
	Ch 157/161, High Channel 5795 MHz	36.295 MHz	40.432 MHz	500 kHz	Pass
	802.11(n) MCS7				
	Ch 149/153, Low Channel 5755 MHz	36.438 MHz	40.105 MHz	500 kHz	Pass
	Ch 157/161, High Channel 5795 MHz	36.487 MHz	40.451 MHz	500 kHz	Pass

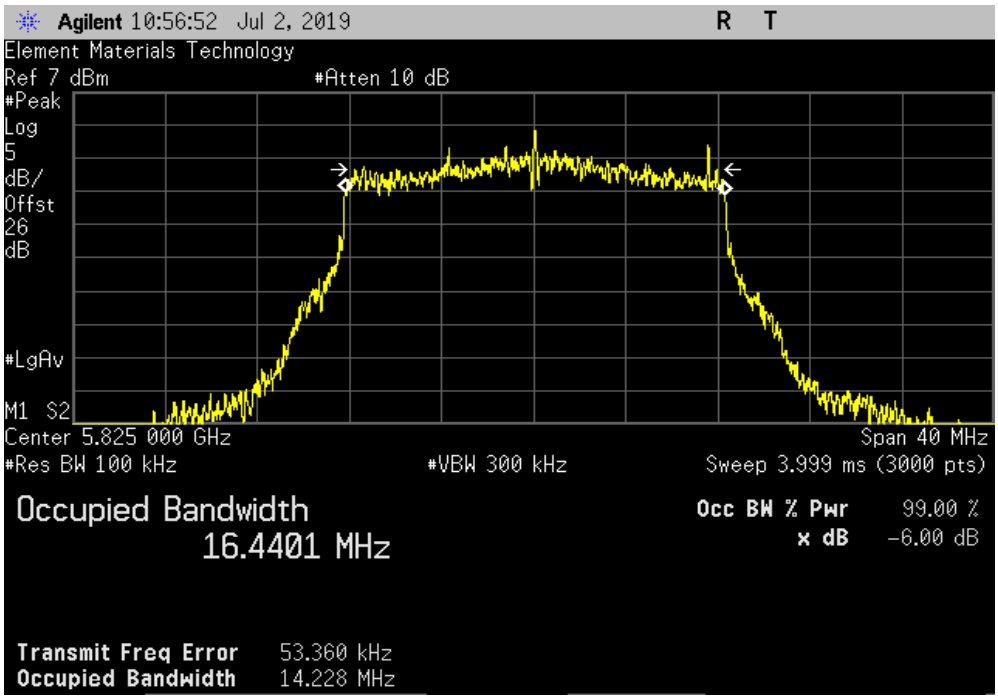
20 MHz, 802.11(a) 6 Mbps, Ch 149, Low Channel 5745 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.455 MHz	15.05 MHz	500 kHz	Pass



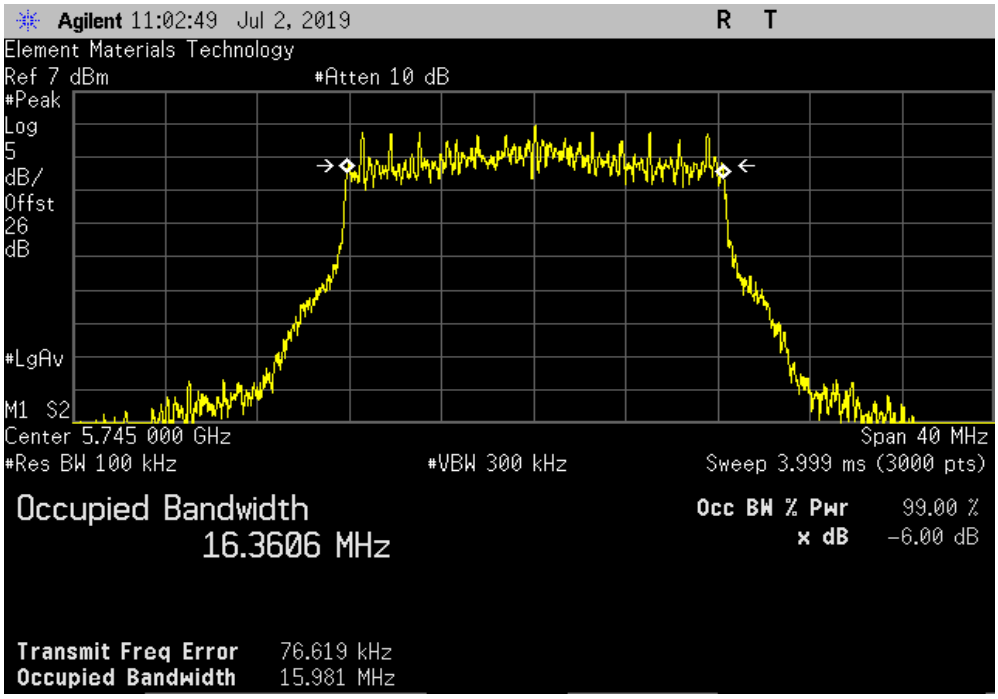
20 MHz, 802.11(a) 6 Mbps, Ch 157, Mid Channel 5785 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.425 MHz	15.388 MHz	500 kHz	Pass



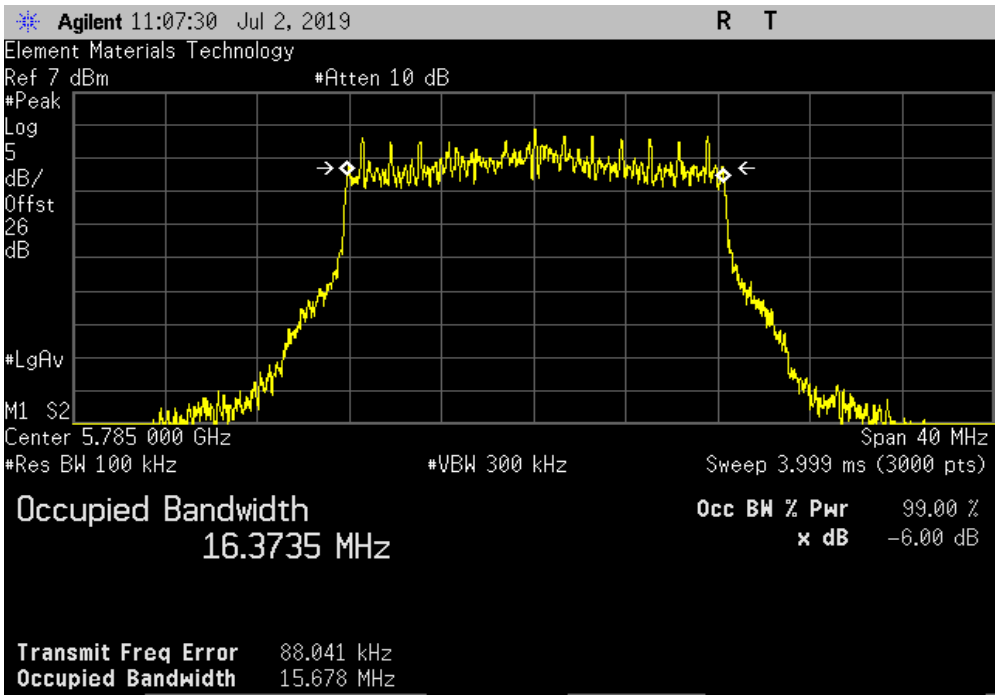
20 MHz, 802.11(a) 6 Mbps, Ch 165, High Channel 5825 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.44 MHz	14.228 MHz	500 kHz	Pass



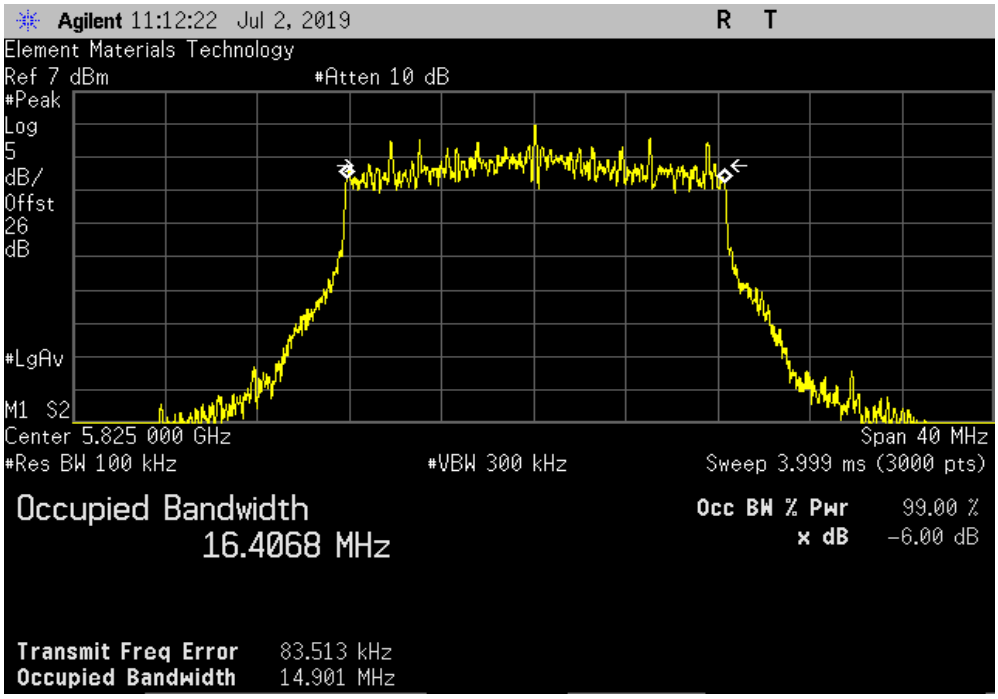
20 MHz, 802.11(a) 36 Mbps, Ch 149, Low Channel 5745 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.361 MHz	15.981 MHz	500 kHz	Pass



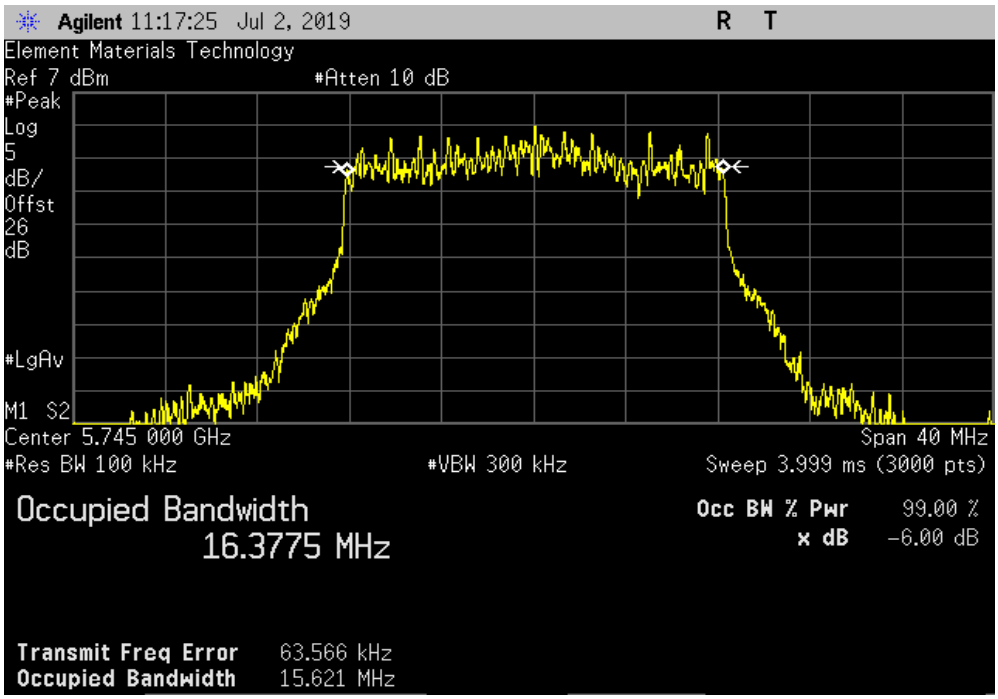
20 MHz, 802.11(a) 36 Mbps, Ch 157, Mid Channel 5785 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.373 MHz	15.678 MHz	500 kHz	Pass



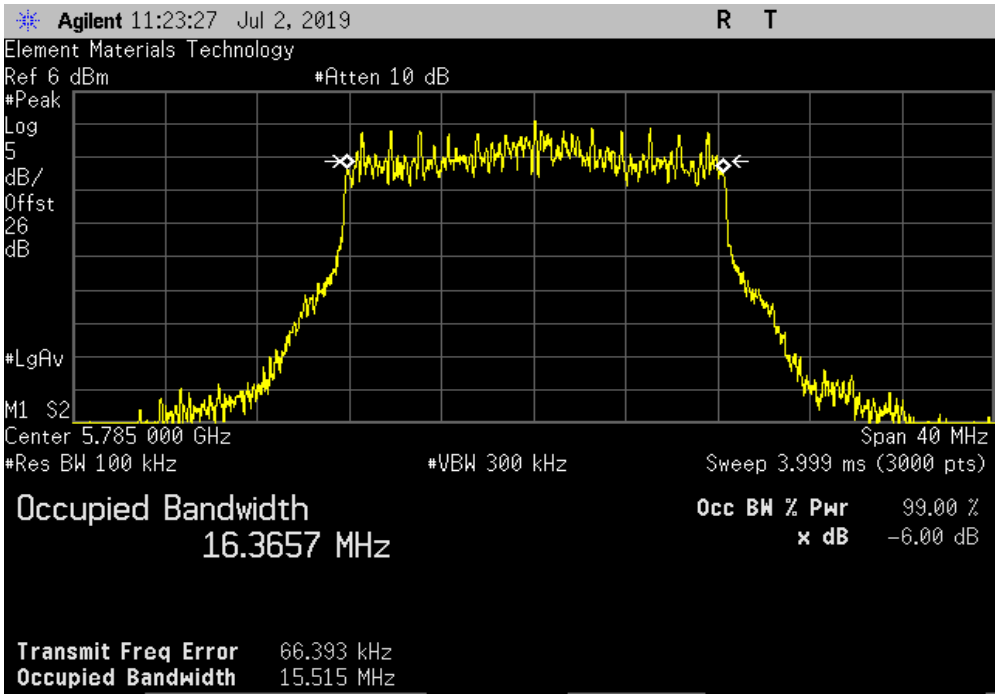
20 MHz, 802.11(a) 36 Mbps, Ch 165, High Channel 5825 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.407 MHz	14.901 MHz	500 kHz	Pass



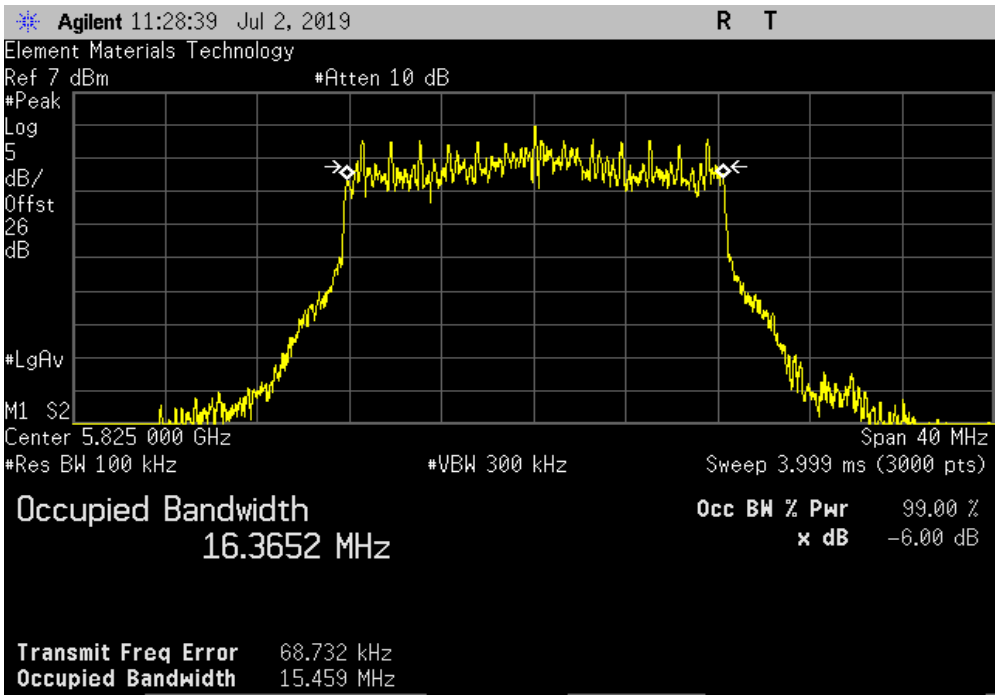
20 MHz, 802.11(a) 54 Mbps, Ch 149, Low Channel 5745 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.377 MHz	15.621 MHz	500 kHz	Pass



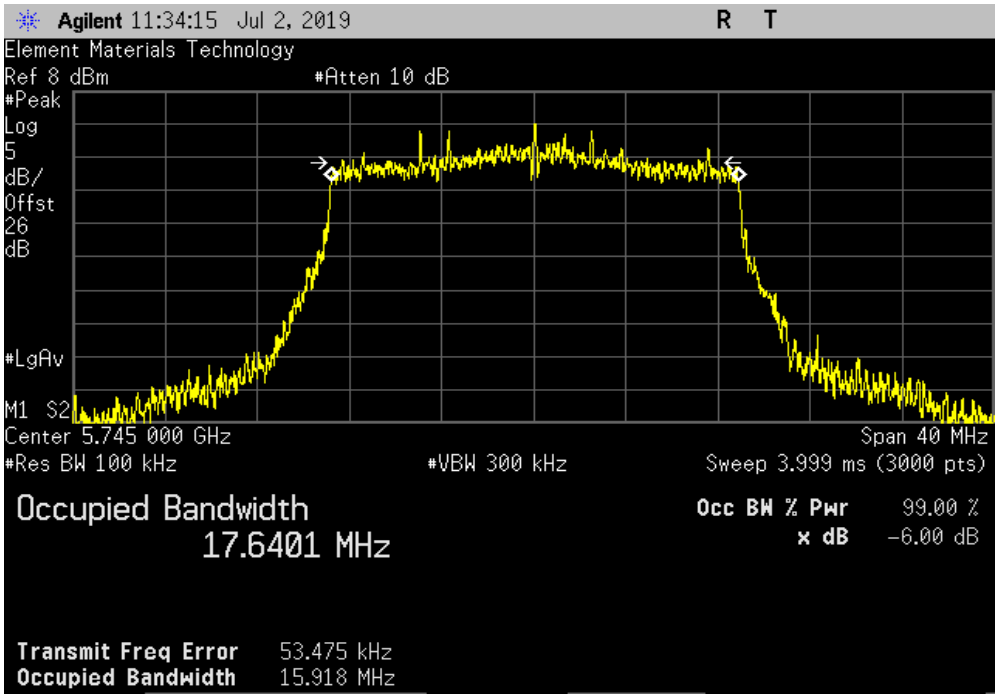
20 MHz, 802.11(a) 54 Mbps, Ch 157, Mid Channel 5785 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.366 MHz	15.515 MHz	500 kHz	Pass



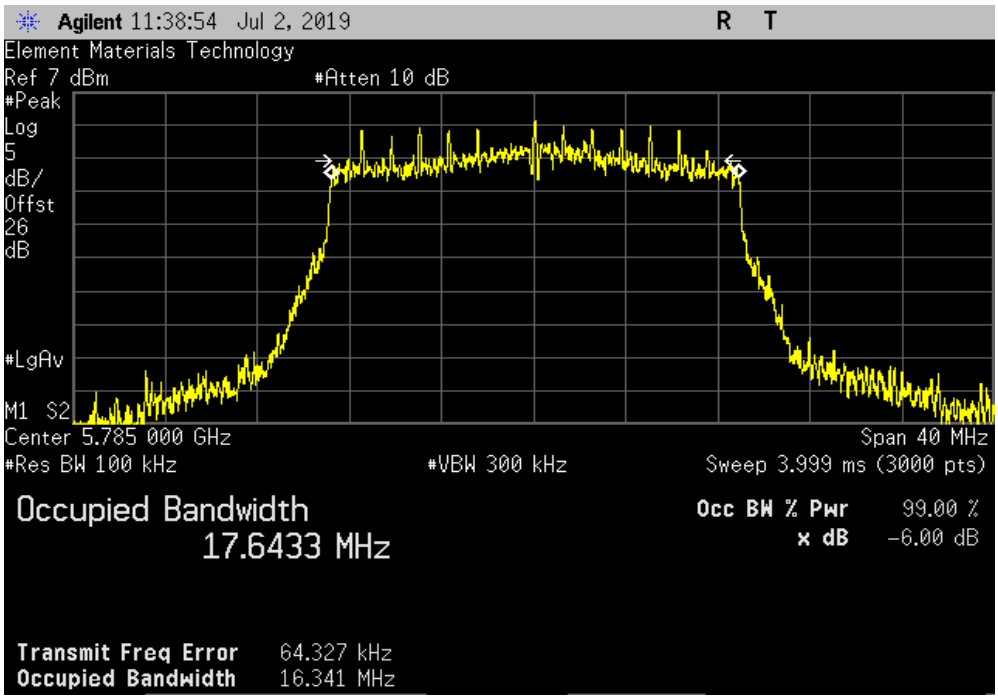
20 MHz, 802.11(a) 54 Mbps, Ch 165, High Channel 5825 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			16.365 MHz	15.459 MHz	500 kHz	Pass



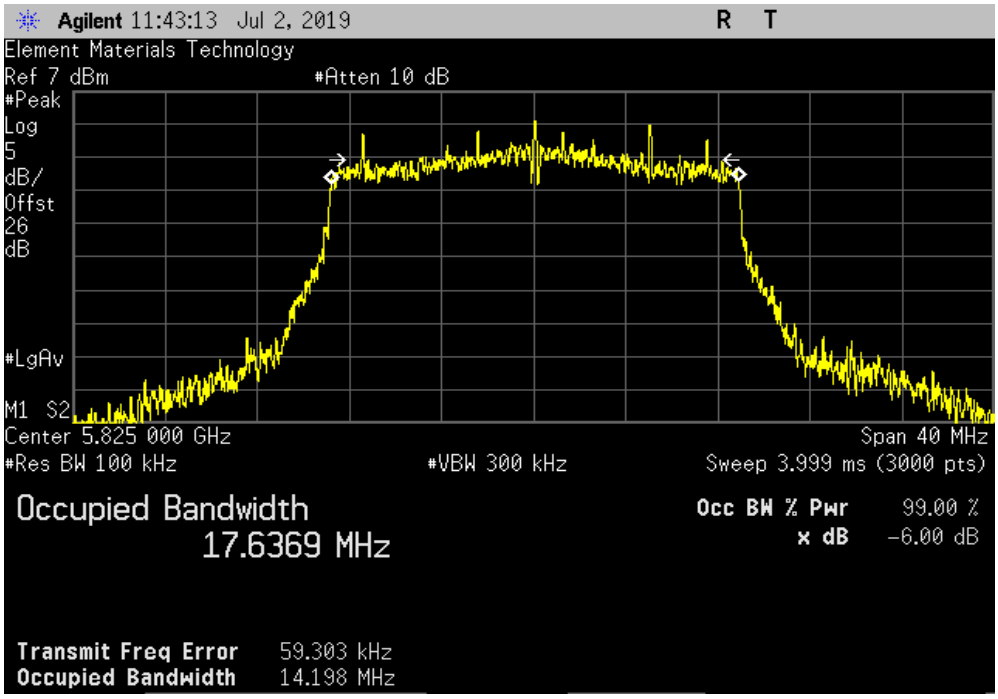
20 MHz, 802.11(n) MCS0, Ch 149, Low Channel 5745 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			17.64 MHz	15.918 MHz	500 kHz	Pass



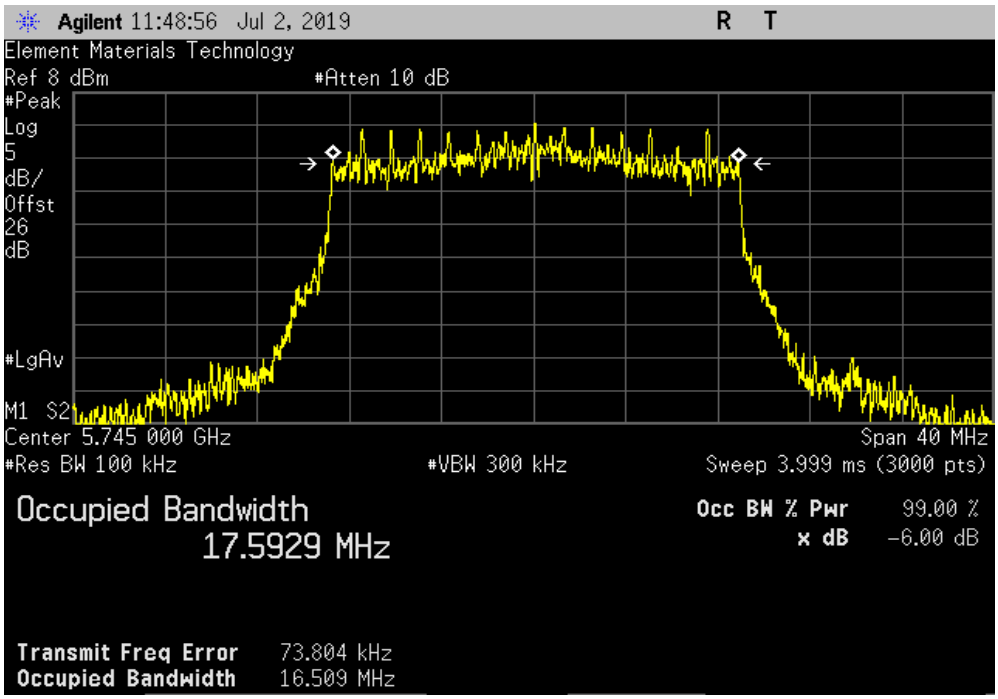
20 MHz, 802.11(n) MCS0, Ch 157, Mid Channel 5785 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			17.643 MHz	16.341 MHz	500 kHz	Pass



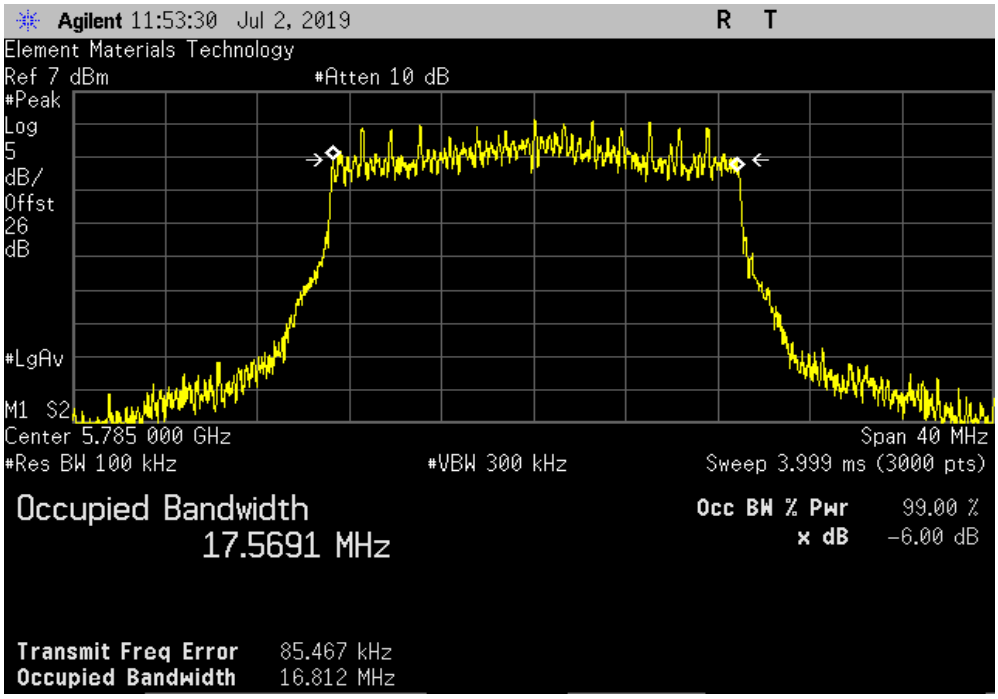
20 MHz, 802.11(n) MCS0, Ch 165, High Channel 5825 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			17.637 MHz	14.199 MHz	500 kHz	Pass



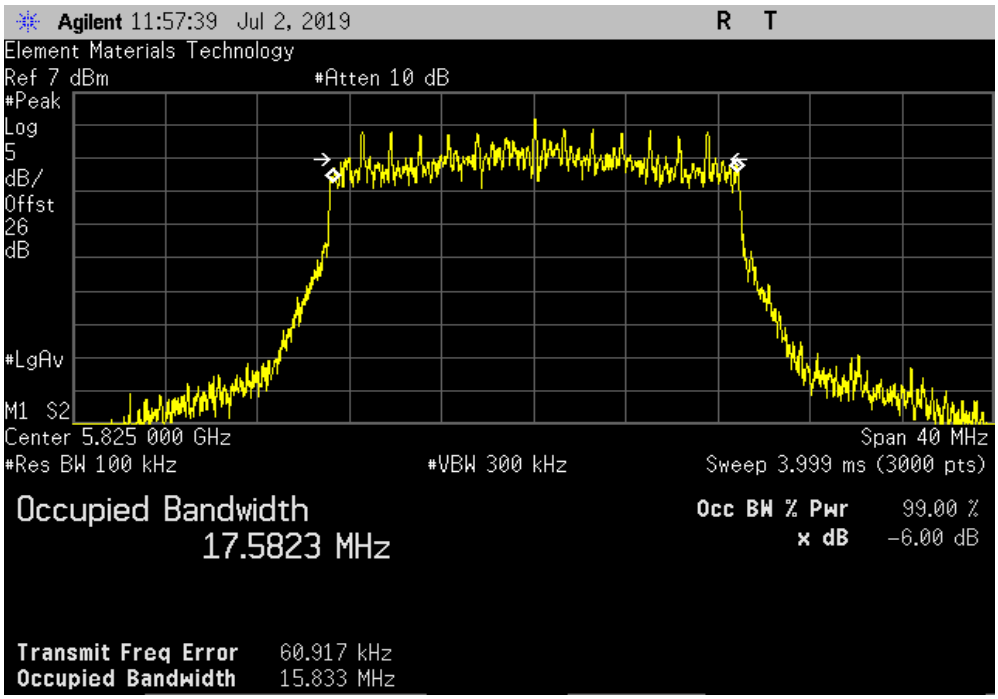
20 MHz, 802.11(n) MCS7, Ch 149, Low Channel 5745 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			17.593 MHz	16.509 MHz	500 kHz	Pass



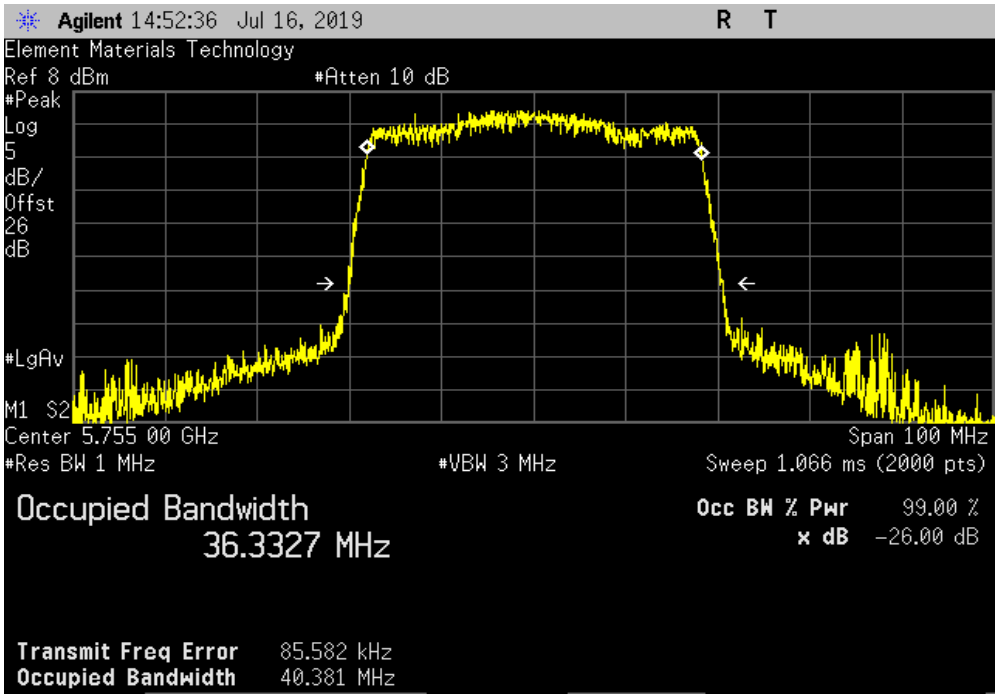
20 MHz, 802.11(n) MCS7, Ch 157, Mid Channel 5785 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			17.569 MHz	16.812 MHz	500 kHz	Pass



20 MHz, 802.11(n) MCS7, Ch 165, High Channel 5825 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			17.582 MHz	15.833 MHz	500 kHz	Pass

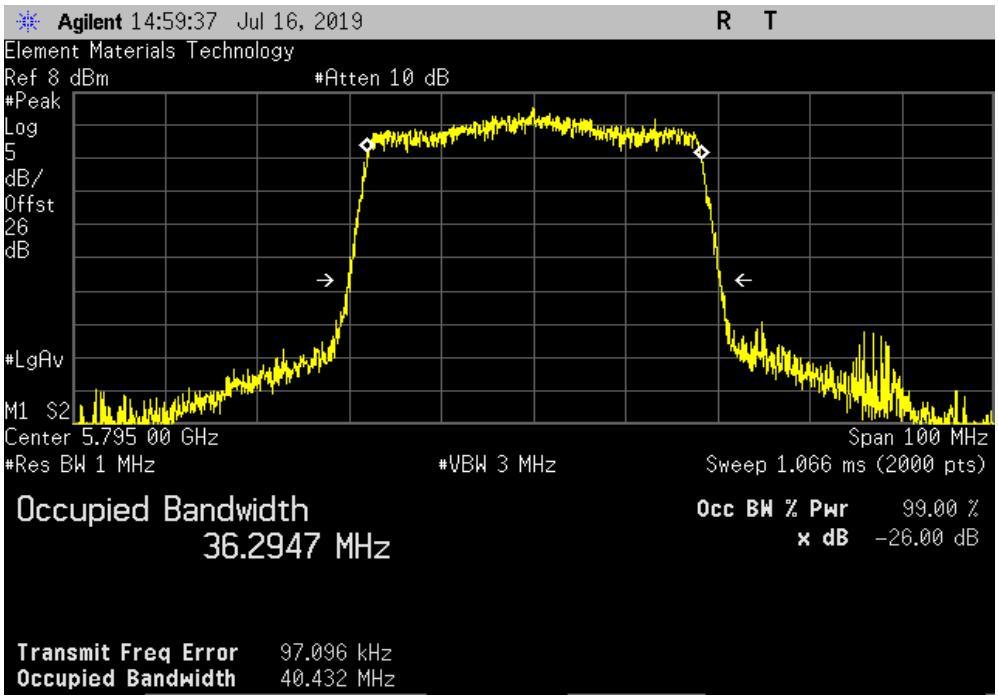


40 MHz, 802.11(n) MCS0, Ch 149/153, Low Channel 5755 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			36.333 MHz	40.381 MHz	500 kHz	Pass

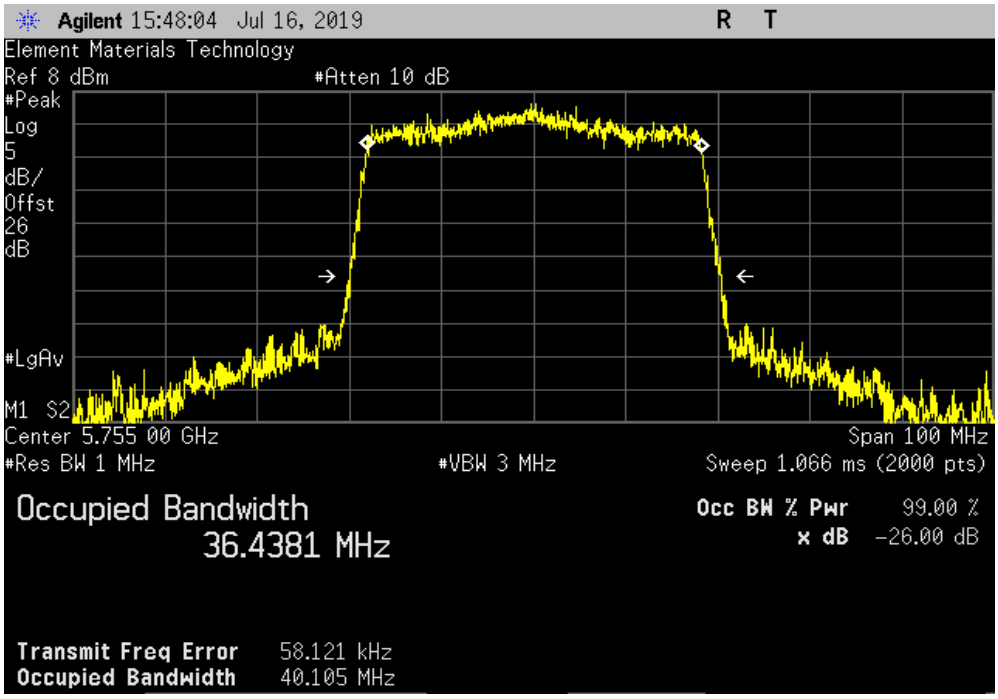


OCCUPIED BANDWIDTH

40 MHz, 802.11(n) MCS0, Ch 157/161, High Channel 5795 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			36.295 MHz	40.432 MHz	500 kHz	Pass

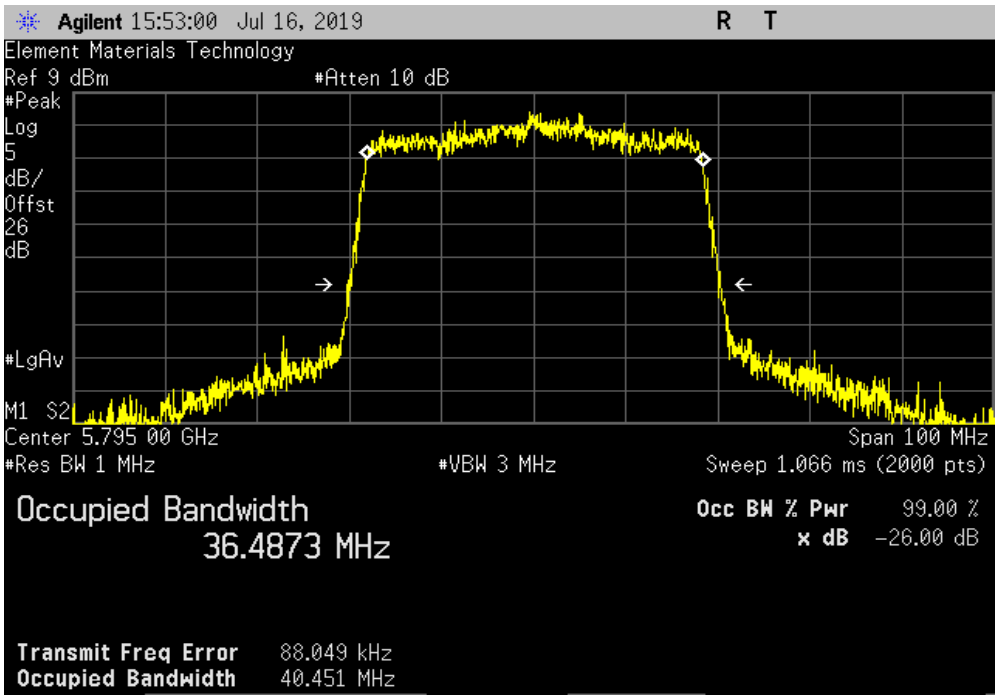


40 MHz, 802.11(n) MCS7, Ch 149/153, Low Channel 5755 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			36.438 MHz	40.105 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

40 MHz, 802.11(n) MCS7, Ch 157/161, High Channel 5795 MHz						
			Value (99%)	Value (6 dB)	Limit (>)	Result
			36.487 MHz	40.451 MHz	500 kHz	Pass



MAXIMUM POWER SPECTRAL DENSITY

XMit 2019.05.15

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
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	30-Nov-18	30-Nov-19

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 power spectral density, the emission bandwidth (B) was measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report

The maximum power spectral density 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), consistent with the method used for maximum conducted output power.

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

-Resolution Bandwidth of 1 MHz

-RMS Detector

-Trace average 100 traces in power averaging mode

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).

A duty cycle correction factor was added to the measurement using the results of the formula of 10*LOG(1/D) where D is the duty cycle.

MAXIMUM POWER SPECTRAL DENSITY

element

TbtTx 2018.09.13 XMit 2019.05.15

EUT:	**MWMII**			**Work Order:**	**MASI0553**
Serial Number:	**ENG-1**			**Date:**	**16-Jul-19**
Customer:	**Masimo Corporation**			**Temperature:**	**24..5 °C**
Attendees:	**Anami Joshi & Nghi Nguyen**			**Humidity:**	**47.2% RH**
Project:	**None**			**Barometric Pres.:**	**1015 mbar**
Tested by:	**Nolan De Ramos, Luis Flores, and Mark Baytan**	**Power:**	**3.6VDC**	**Job Site:**	**OC13**

TEST SPECIFICATIONS	**Test Method**
FCC 15.407:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26.3dB Total Offset (5.2 GHz - 5.35 GHz)
Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26dB Total Offset (5.35 GHz - 5.8 GHz)

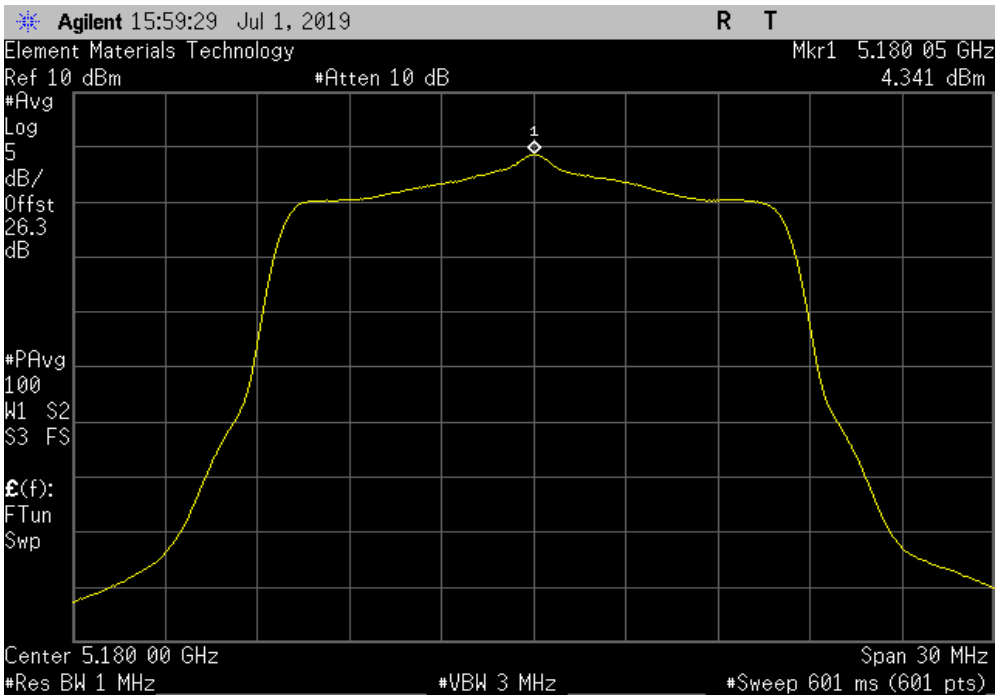
DEVIATIONS FROM TEST STANDARD

None

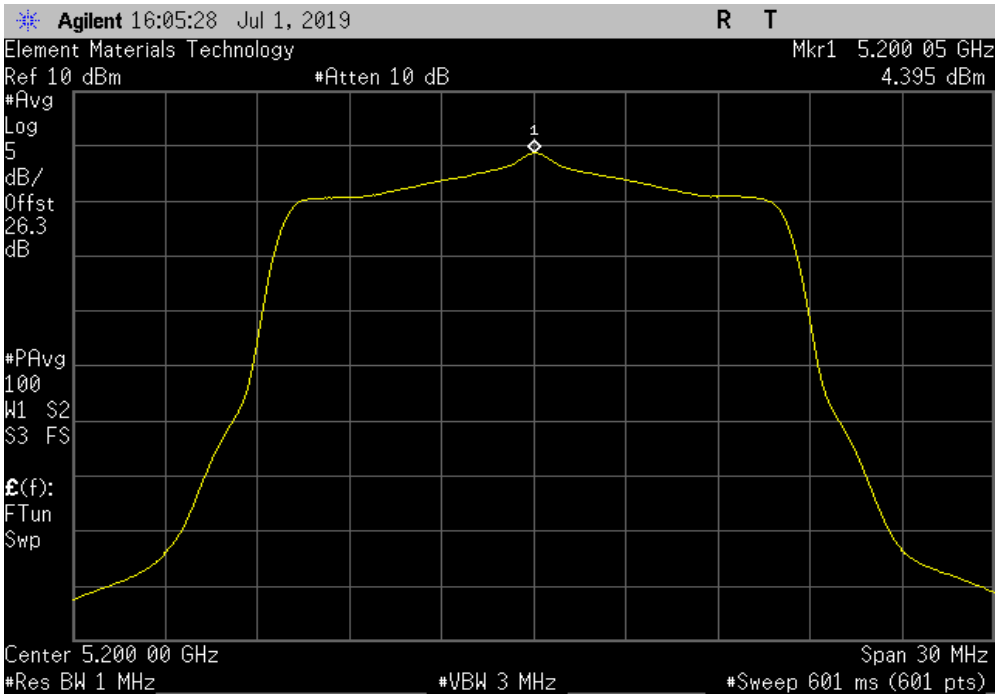
Configuration #	**8**	

		Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
20 MHz						
	802.11(a) 6 Mbps					
	Ch 36, Low Channel 5180 MHz	4.341	0.3	4.6	11	Pass
	Ch 40, Mid Channel 5200 MHz	4.395	0.3	4.7	11	Pass
	Ch 48, High Channel 5240 MHz	4.435	0.3	4.7	11	Pass
	Ch 52, Low Channel 5260 MHz	4.096	0.3	4.4	11	Pass
	Ch 60, Mid Channel 5300 MHz	4.385	0.3	4.7	11	Pass
	Ch 64, High Channel 5320 MHz	4.206	0.3	4.5	11	Pass
	Ch 100, Low Channel 5500 MHz	4.268	0.3	4.6	11	Pass
	Ch 116, Mid Channel 5580 MHz	3.961	0.3	4.3	11	Pass
	Ch 140, High Channel 5700 MHz	2.865	0.3	3.2	11	Pass
	802.11(a) 36 Mbps					
	Ch 36, Low Channel 5180 MHz	3.084	1.5	4.5	11	Pass
	Ch 40, Mid Channel 5200 MHz	3.299	1.5	4.7	11	Pass
	Ch 48, High Channel 5240 MHz	3.428	1.5	4.9	11	Pass
	Ch 52, Low Channel 5260 MHz	3.119	1.5	4.6	11	Pass
	Ch 60, Mid Channel 5300 MHz	3.107	1.5	4.6	11	Pass
	Ch 64, High Channel 5320 MHz	3.288	1.5	4.7	11	Pass
	Ch 100, Low Channel 5500 MHz	3.099	1.5	4.5	11	Pass
	Ch 116, Mid Channel 5580 MHz	3.031	1.4	4.5	11	Pass
	Ch 140, High Channel 5700 MHz	2.091	1.4	3.5	11	Pass
	802.11(a) 54 Mbps					
	Ch 36, Low Channel 5180 MHz	2.422	1.9	4.4	11	Pass
	Ch 40, Mid Channel 5200 MHz	2.365	2.0	4.3	11	Pass
	Ch 48, High Channel 5240 MHz	2.892	1.9	4.8	11	Pass
	Ch 52, Low Channel 5260 MHz	2.260	2.0	4.2	11	Pass
	Ch 60, Mid Channel 5300 MHz	2.546	1.9	4.5	11	Pass
	Ch 64, High Channel 5320 MHz	2.733	1.9	4.7	11	Pass
	Ch 100, Low Channel 5500 MHz	2.471	1.9	4.4	11	Pass
	Ch 116, Mid Channel 5580 MHz	2.319	1.9	4.3	11	Pass
	Ch 140, High Channel 5700 MHz	1.481	1.9	3.4	11	Pass
	802.11(n) MCS0					
	Ch 36, Low Channel 5180 MHz	5.359	0.3	5.7	11	Pass
	Ch 40, Mid Channel 5200 MHz	5.279	0.3	5.6	11	Pass
	Ch 48, High Channel 5240 MHz	4.424	0.3	4.7	11	Pass
	Ch 52, Low Channel 5260 MHz	5.716	0.3	6.0	11	Pass
	Ch 60, Mid Channel 5300 MHz	5.769	0.3	6.1	11	Pass
	Ch 64, High Channel 5320 MHz	5.932	0.3	6.3	11	Pass
	Ch 100, Low Channel 5500 MHz	4.986	0.3	5.3	11	Pass
	Ch 116, Mid Channel 5580 MHz	4.775	0.3	5.1	11	Pass
	Ch 140, High Channel 5700 MHz	3.762	0.3	4.1	11	Pass
	802.11(n) MCS7					
	Ch 36, Low Channel 5180 MHz	3.254	2.1	5.3	11	Pass
	Ch 40, Mid Channel 5200 MHz	2.115	2.1	4.2	11	Pass
	Ch 48, High Channel 5240 MHz	2.548	2.1	4.6	11	Pass
	Ch 52, Low Channel 5260 MHz	3.516	2.1	5.6	11	Pass
	Ch 60, Mid Channel 5300 MHz	3.627	2.0	5.7	11	Pass
	Ch 64, High Channel 5320 MHz	3.740	2.0	5.8	11	Pass
	Ch 100, Low Channel 5500 MHz	2.998	2.0	5.0	11	Pass
	Ch 116, Mid Channel 5580 MHz	2.839	2.0	4.9	11	Pass
	Ch 140, High Channel 5700 MHz	2.406	2.1	4.5	11	Pass
40 MHz						
	802.11(n) MCS0					
	Ch 36/40, Low Channel 5190 MHz	0.172	0.6	0.8	11	Pass
	Ch 44/48, High Channel 5230 MHz	0.402	0.6	1.0	11	Pass
	Ch 52/56, Low Channel 5270 MHz	-0.139	0.6	0.5	11	Pass
	Ch 60/64, High Channel 5310 MHz	0.007	0.6	0.6	11	Pass
	Ch 100/104, Low Channel 5510 MHz	0.215	0.6	0.8	11	Pass
	Ch 116/120, Mid Channel 5590 MHz	0.225	0.6	0.8	11	Pass
	Ch 132/136, High Channel 5670 MHz	-0.198	0.6	0.4	11	Pass
	802.11(n) MCS7					
	Ch 36/40, Low Channel 5190 MHz	-1.959	3.0	1.0	11	Pass
	Ch 44/48, High Channel 5230 MHz	-2.081	3.0	0.9	11	Pass
	Ch 52/56, Low Channel 5270 MHz	-2.795	3.0	0.2	11	Pass
	Ch 60/64, High Channel 5310 MHz	-2.691	3.0	0.3	11	Pass
	Ch 100/104, Low Channel 5510 MHz	-2.825	3.0	0.1	11	Pass
	Ch 116/120, Mid Channel 5590 MHz	-2.272	3.0	0.7	11	Pass
	Ch 132/136, High Channel 5670 MHz	-1.935	2.9	1.0	11	Pass

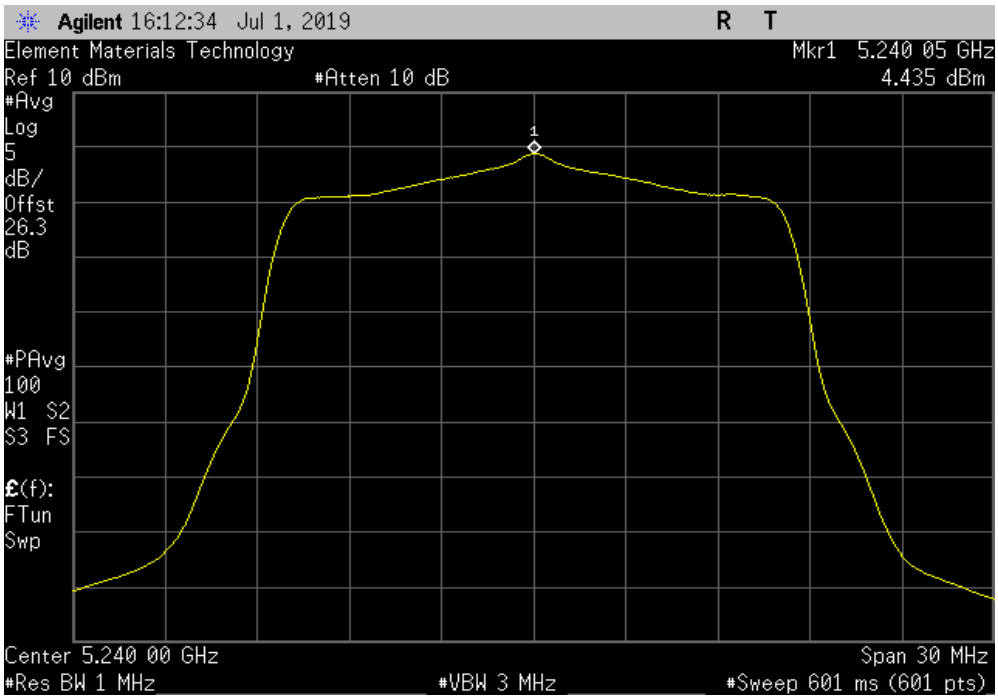
20 MHz, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.341	0.3		4.6	11	Pass



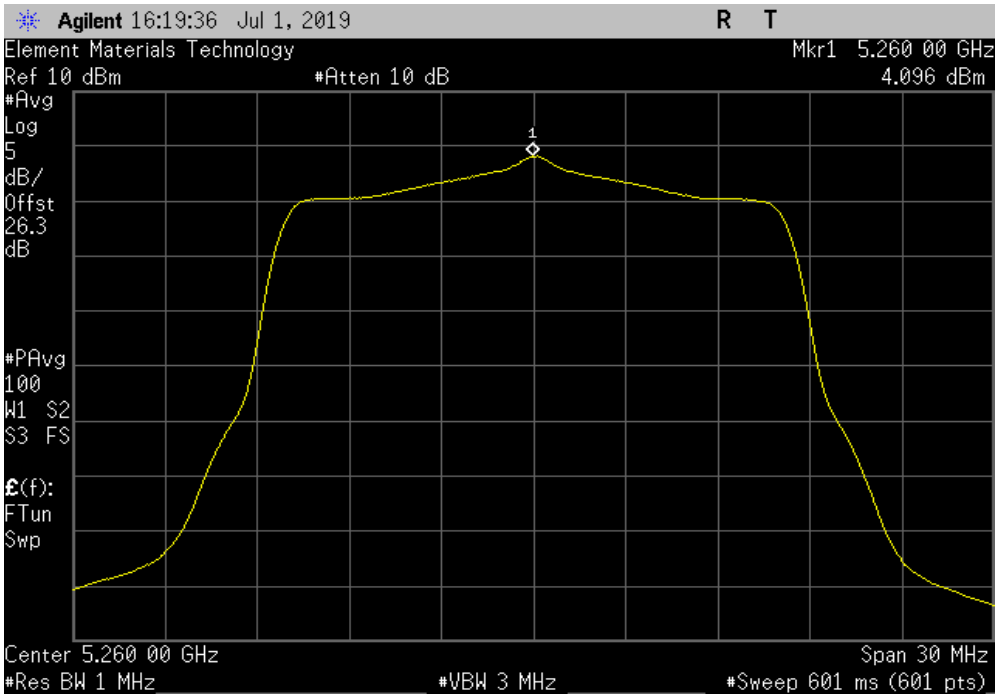
20 MHz, 802.11(a) 6 Mbps, Ch 40, Mid Channel 5200 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.395	0.3		4.7	11	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.435	0.3		4.7	11	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.096	0.3		4.4	11	Pass

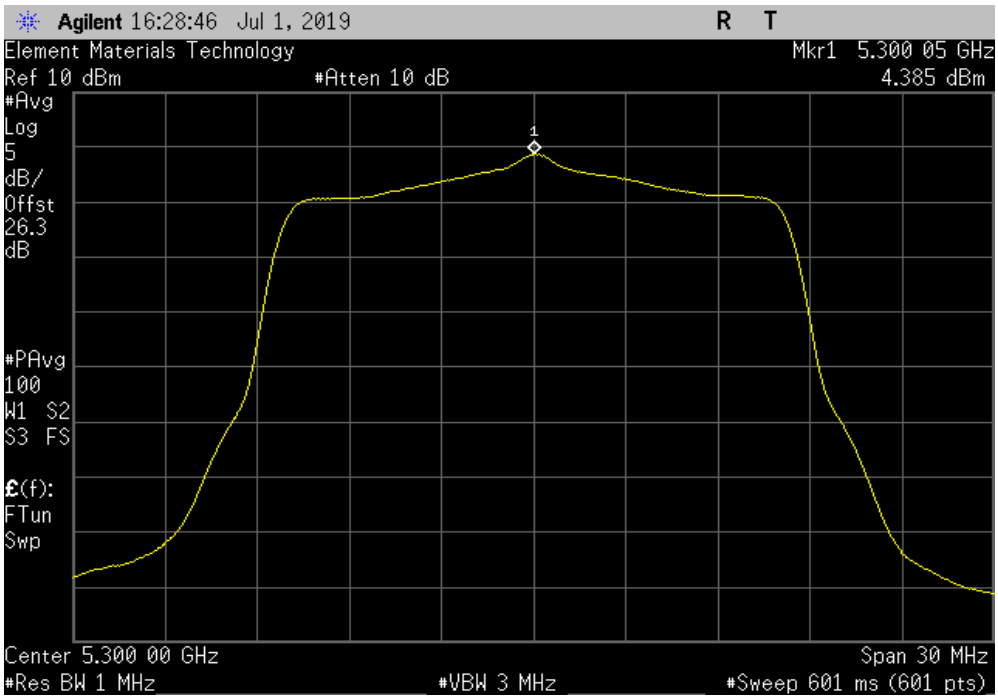


MAXIMUM POWER SPECTRAL DENSITY

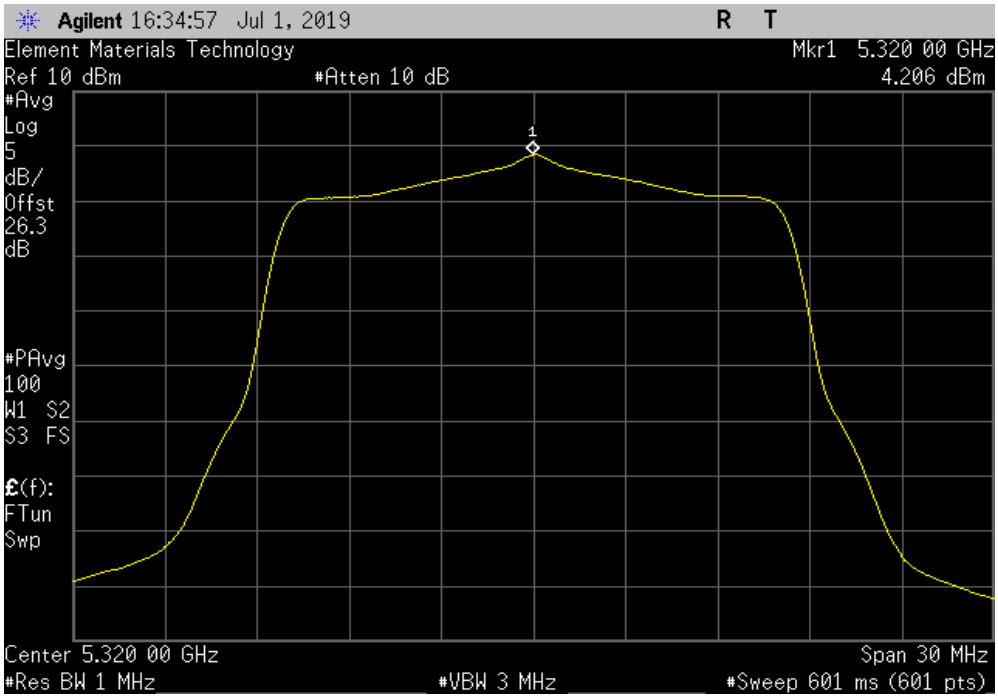
element

TbtTx 2018.09.13 XMit 2019.05.15

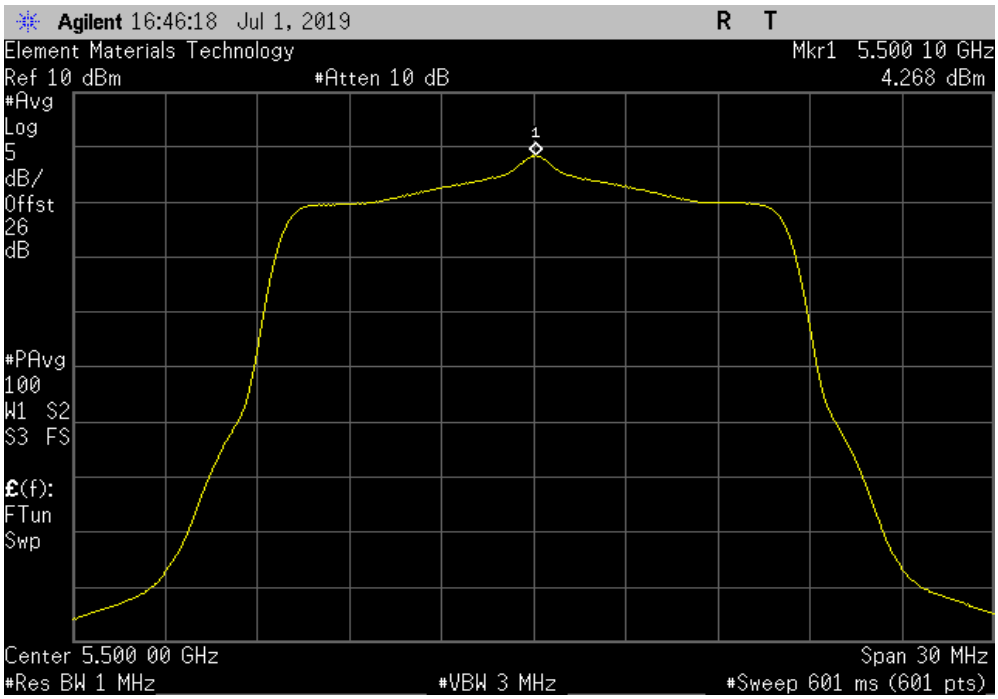
20 MHz, 802.11(a) 6 Mbps, Ch 60, Mid Channel 5300 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.385	0.3		4.7	11	Pass



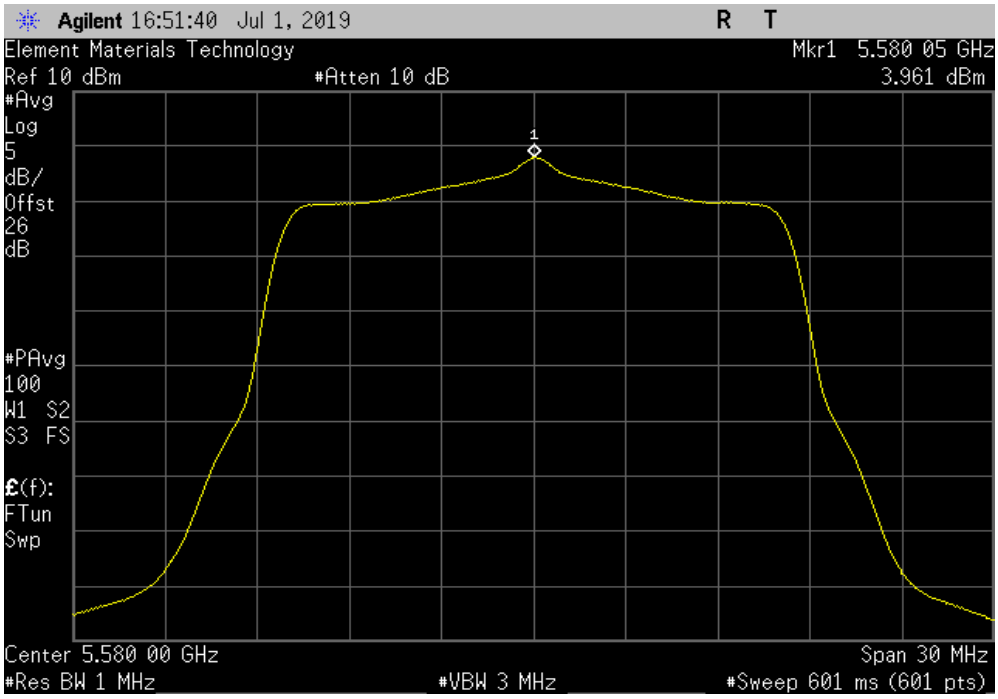
20 MHz, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.206	0.3		4.5	11	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.268	0.3		4.6	11	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.961	0.3		4.3	11	Pass

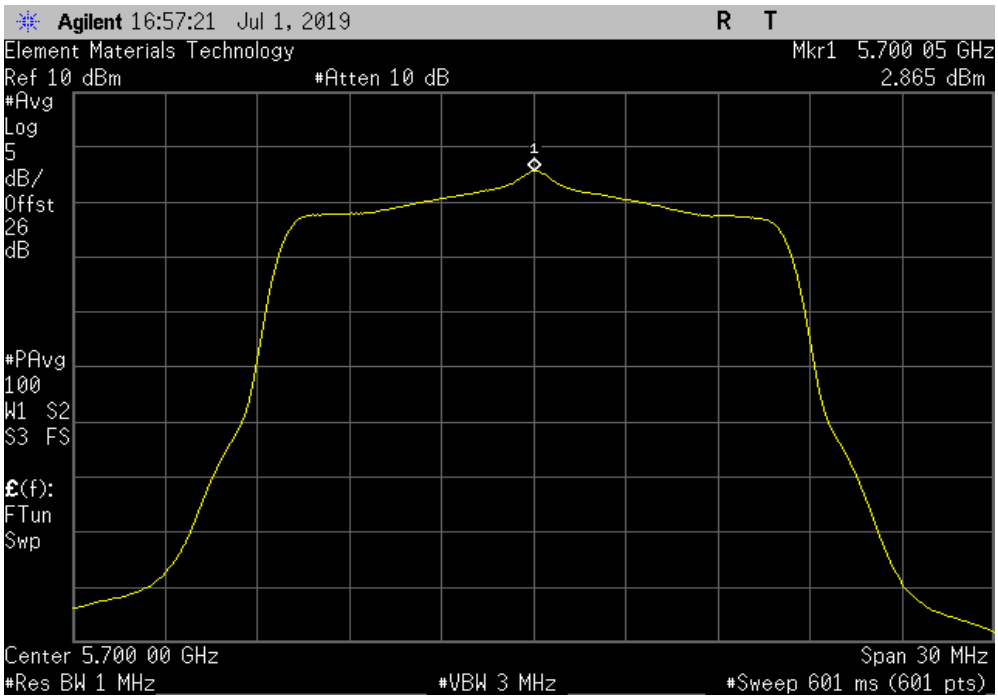


MAXIMUM POWER SPECTRAL DENSITY

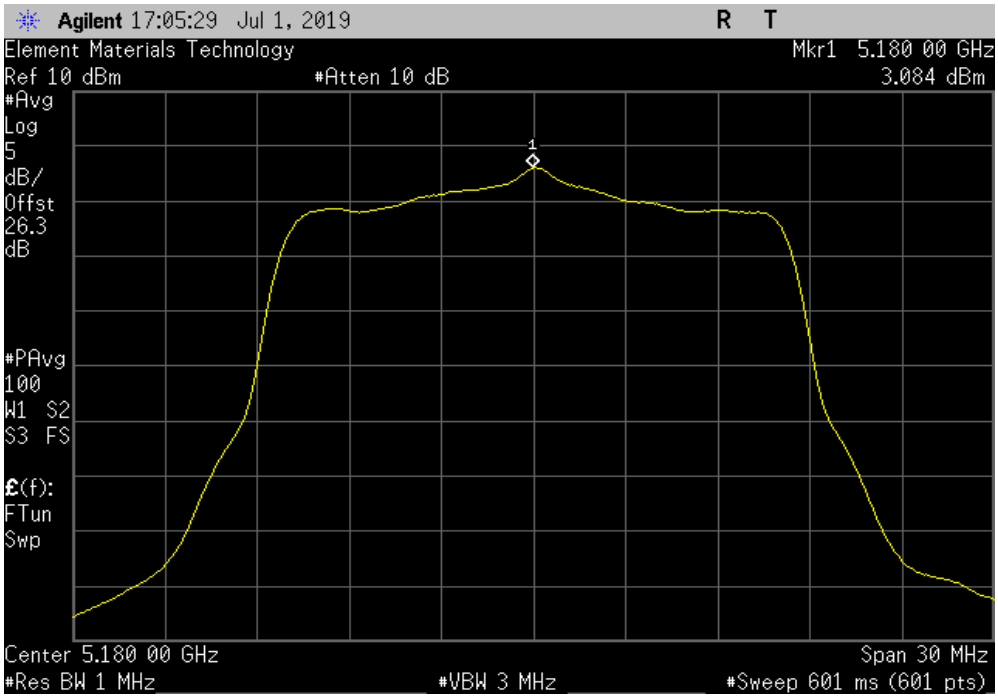
element

TbtTx 2018.09.13 XMit 2019.05.15

20 MHz, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.865	0.3		3.2	11	Pass

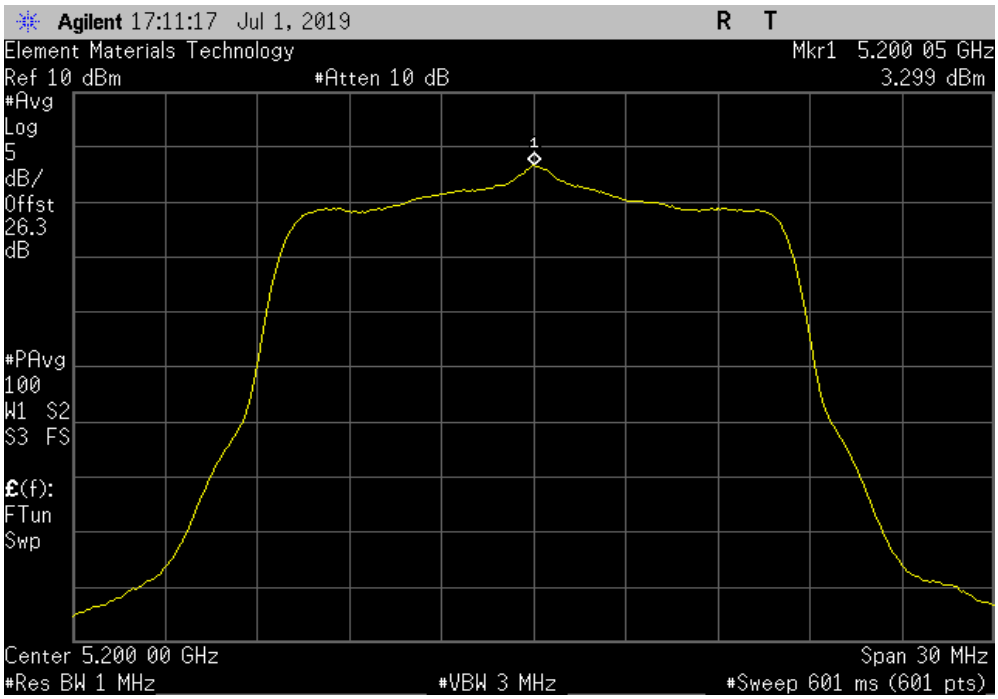


20 MHz, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.084	1.5		4.5	11	Pass

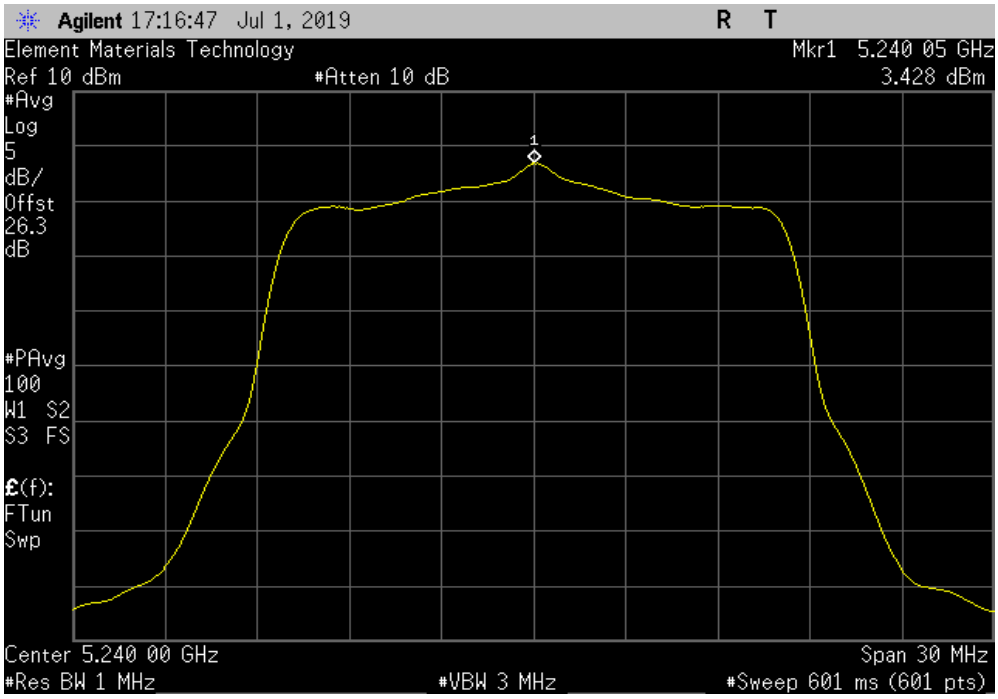


MAXIMUM POWER SPECTRAL DENSITY

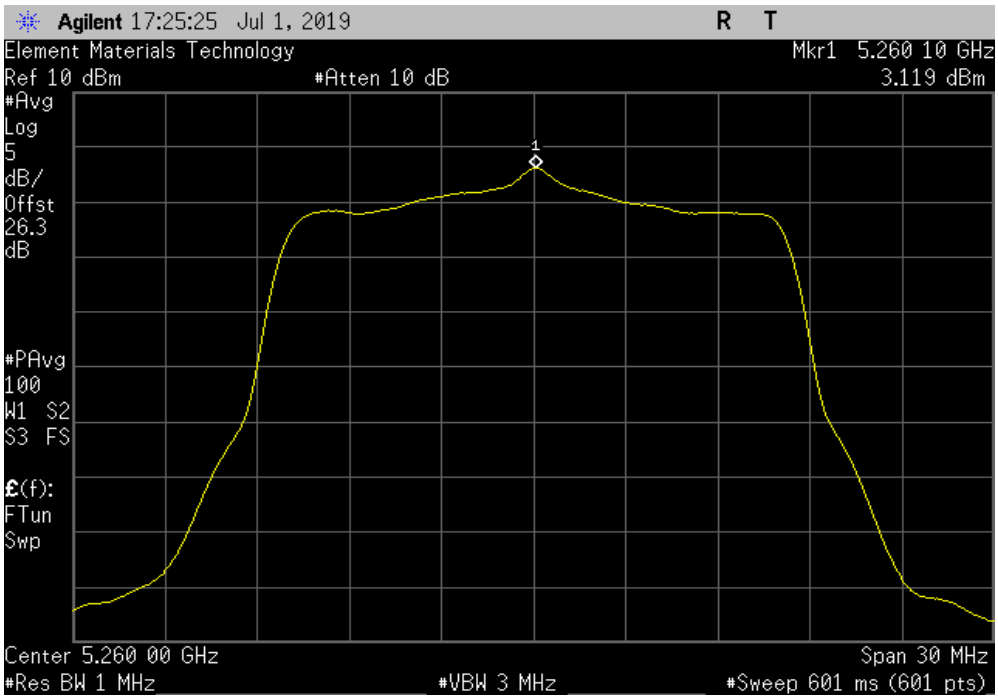
20 MHz, 802.11(a) 36 Mbps, Ch 40, Mid Channel 5200 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.299	1.5		4.7	11	Pass



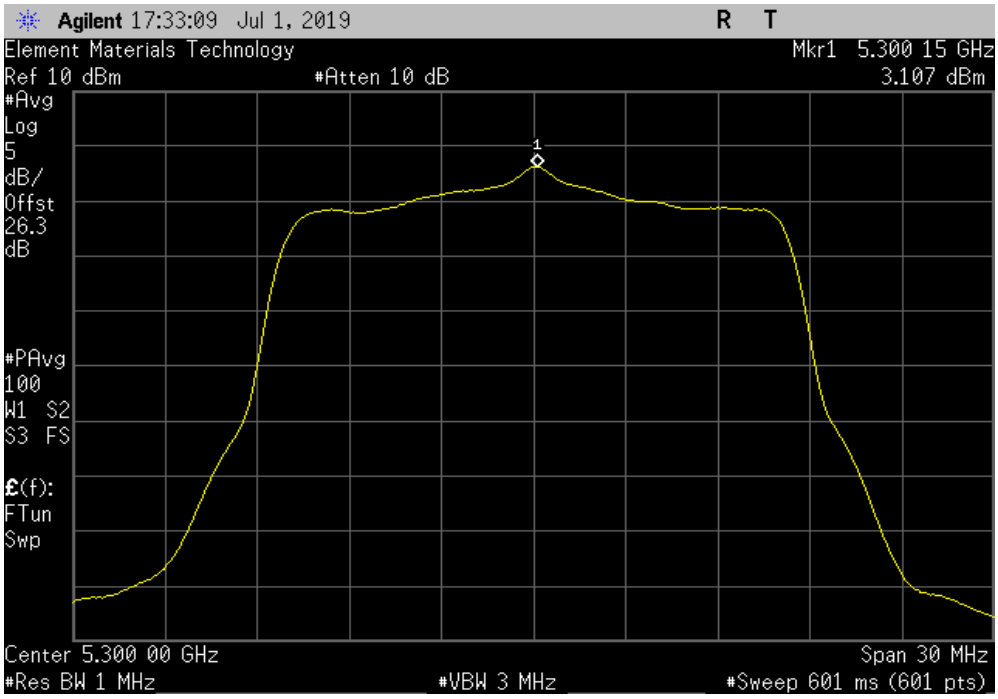
20 MHz, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.428	1.5		4.9	11	Pass



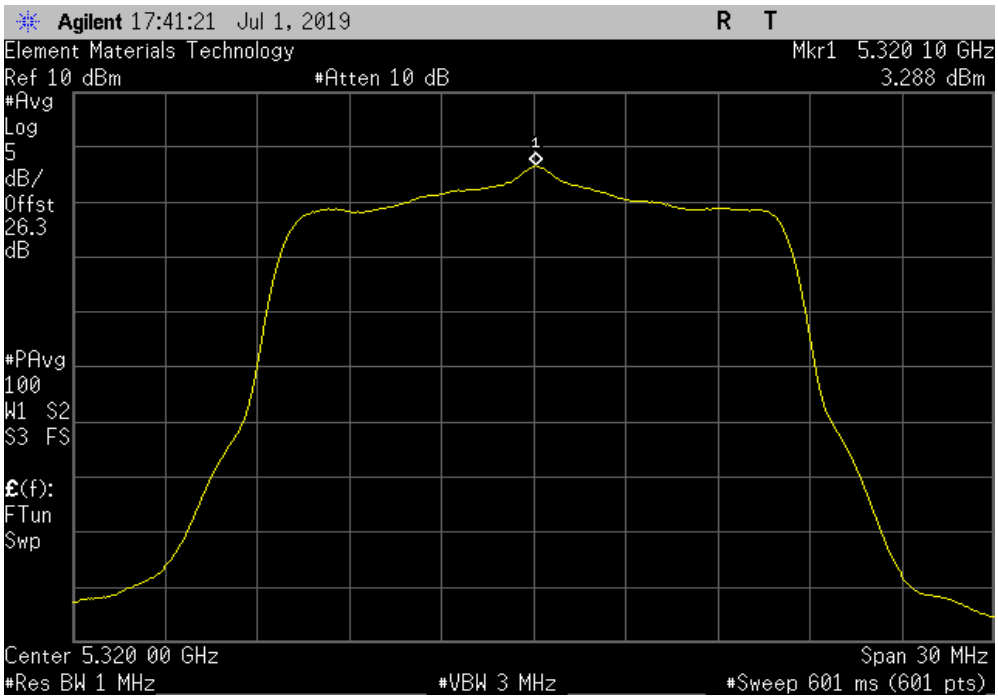
20 MHz, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.119	1.5		4.6	11	Pass



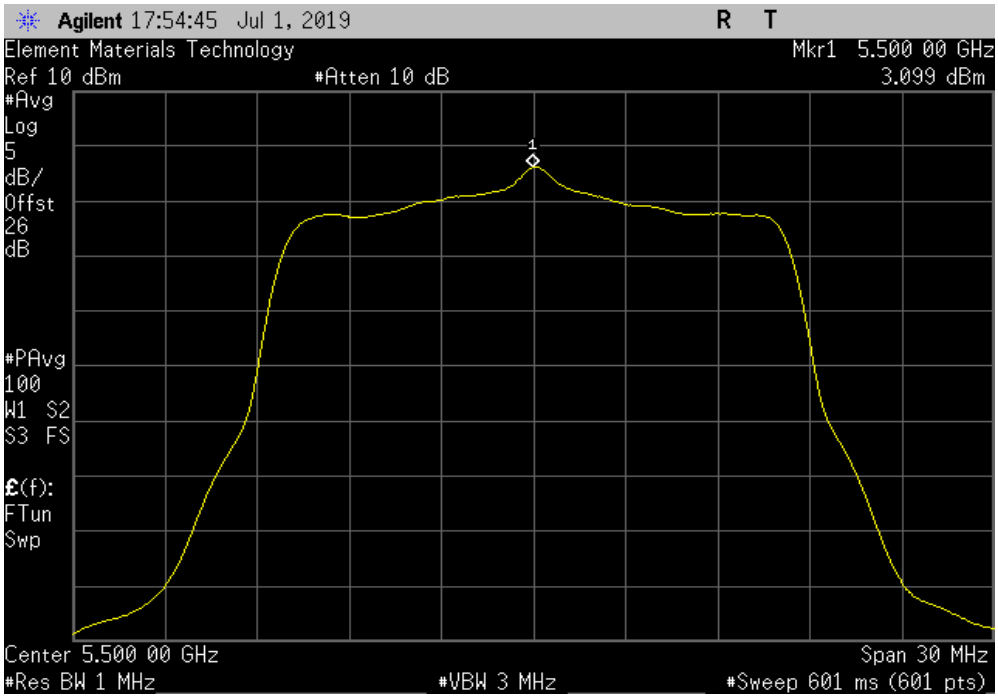
20 MHz, 802.11(a) 36 Mbps, Ch 60, Mid Channel 5300 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.107	1.5		4.6	11	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.288	1.5		4.7	11	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.099	1.5		4.5	11	Pass

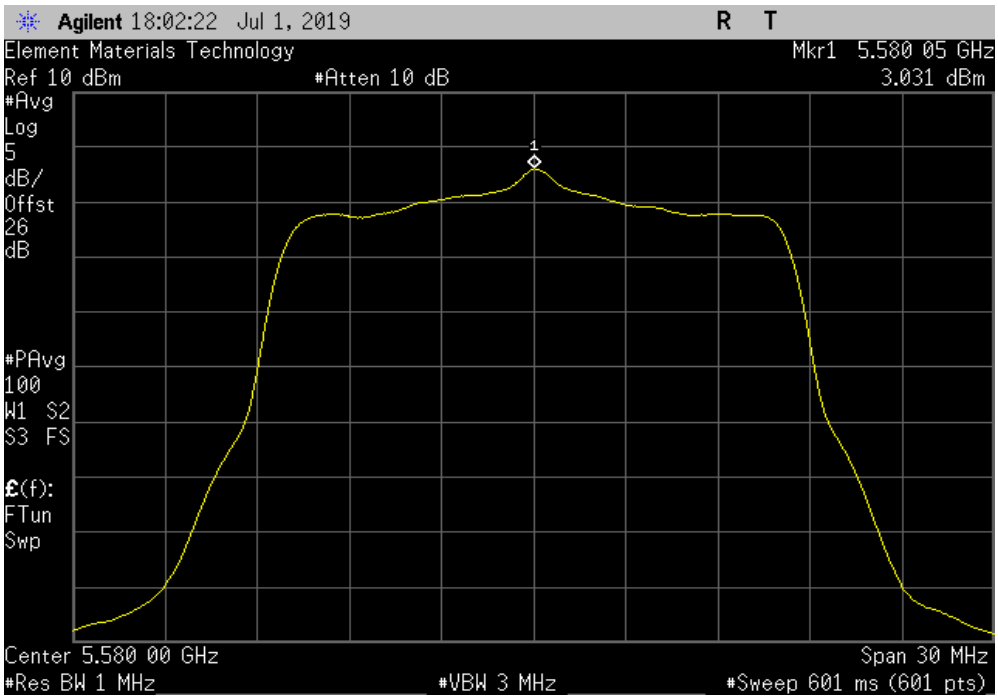


MAXIMUM POWER SPECTRAL DENSITY

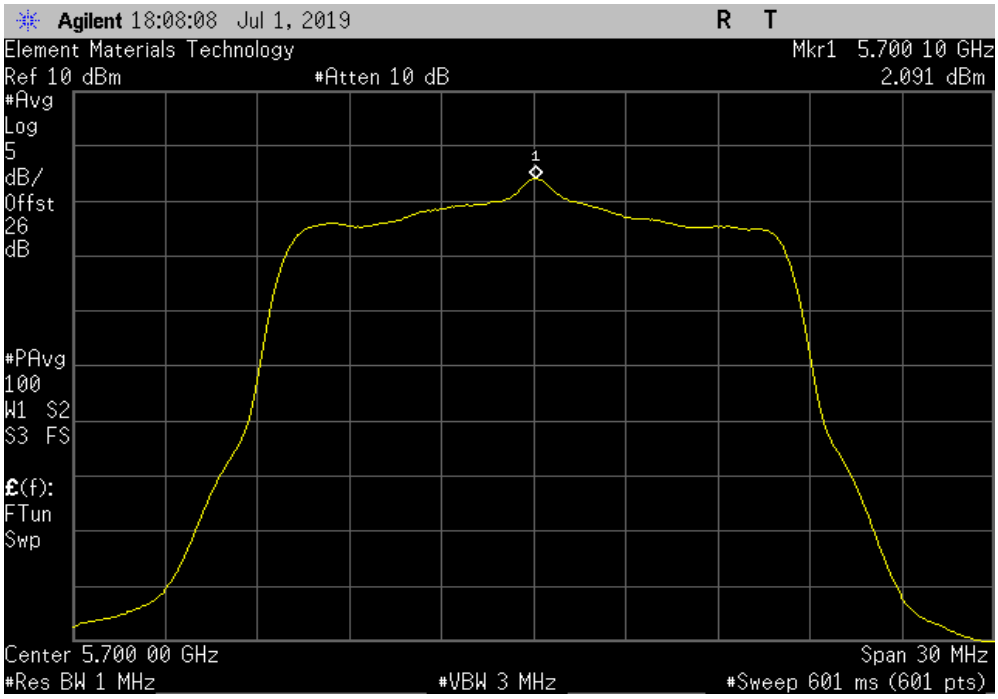
element

TbtTx 2018.09.13 XMit 2019.05.15

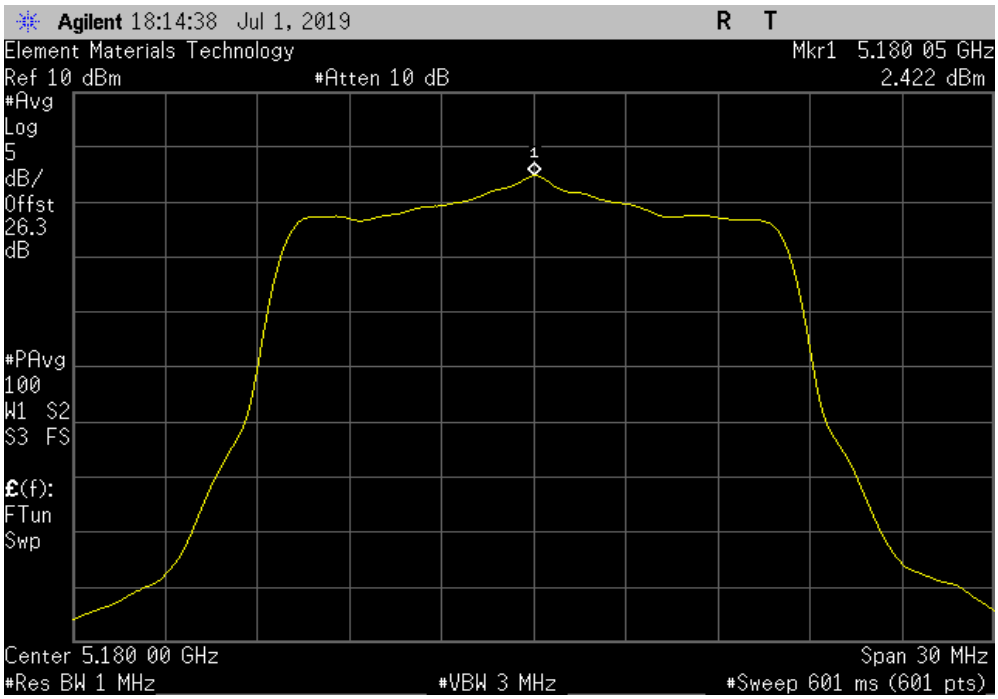
20 MHz, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.031	1.4		4.5	11	Pass



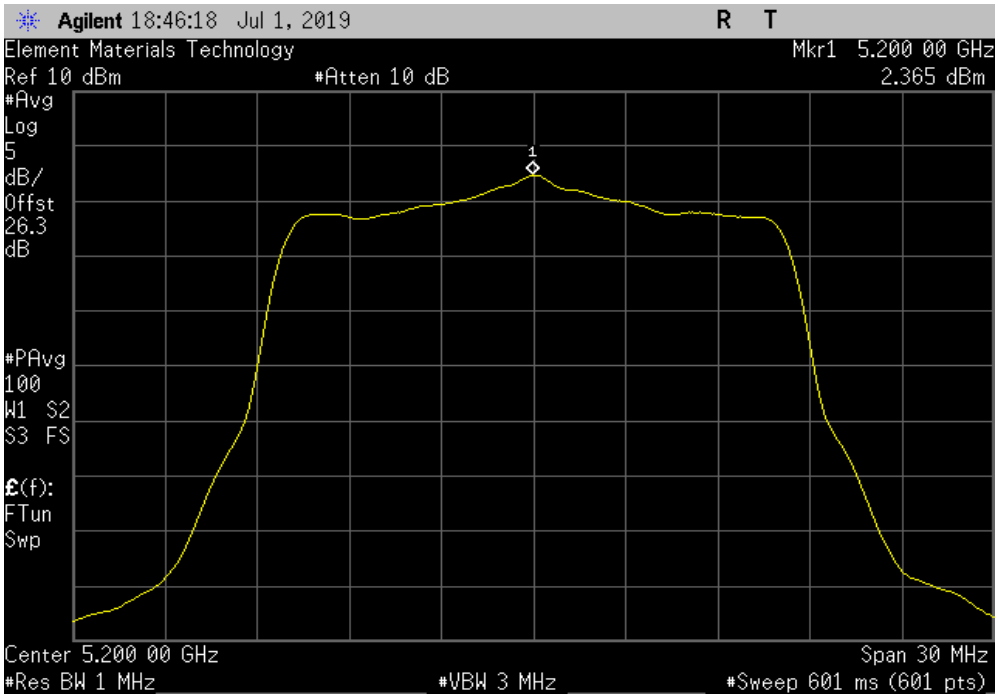
20 MHz, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.091	1.4		3.5	11	Pass



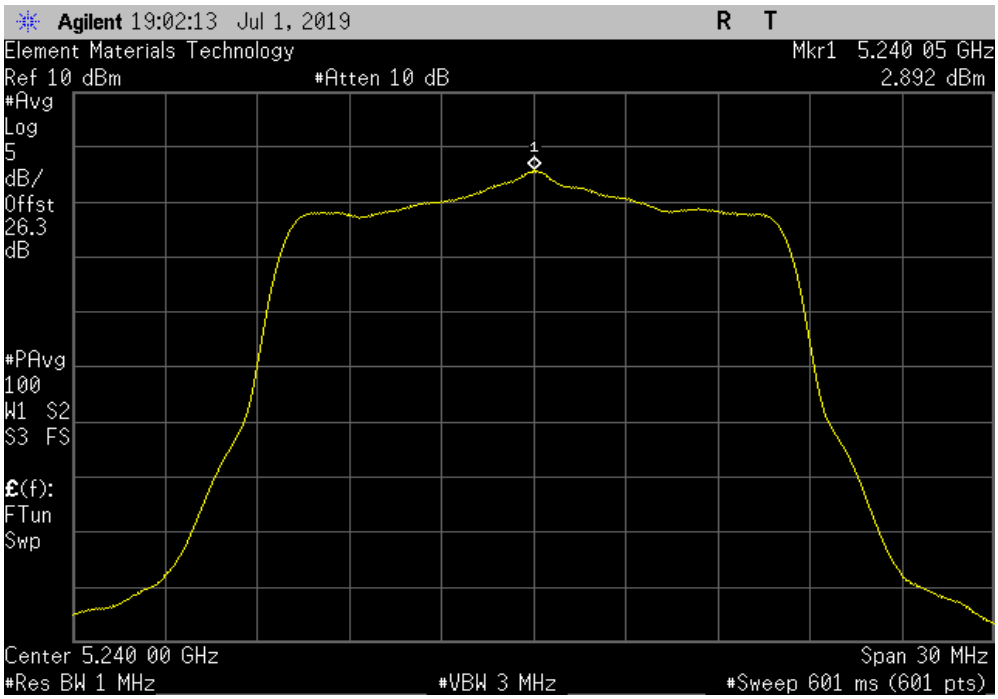
20 MHz, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.422	1.9		4.4	11	Pass



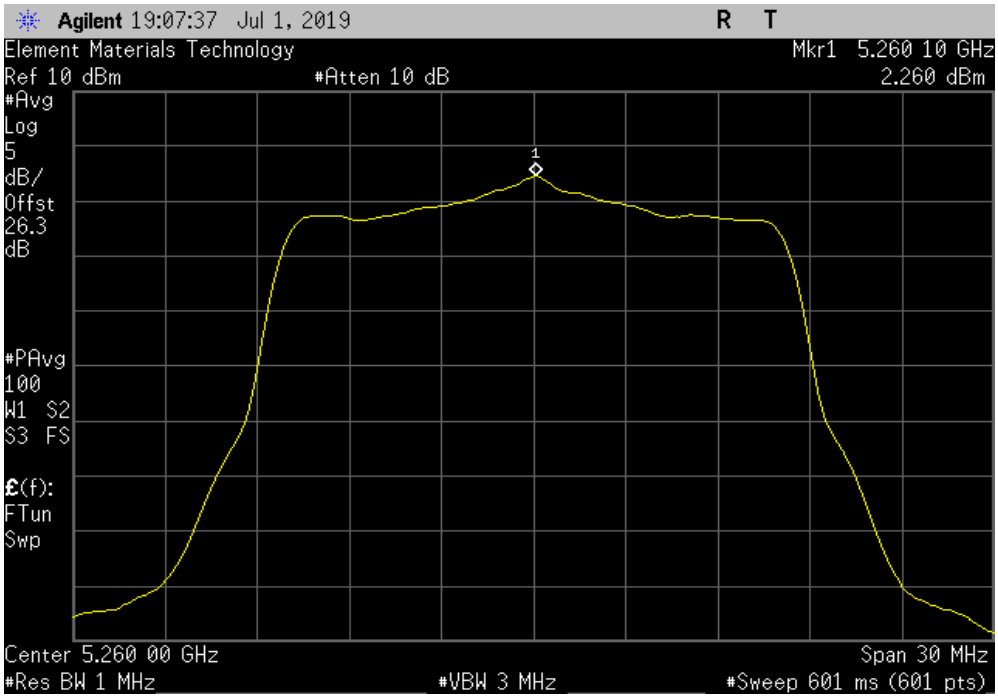
20 MHz, 802.11(a) 54 Mbps, Ch 40, Mid Channel 5200 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.365	2		4.3	11	Pass



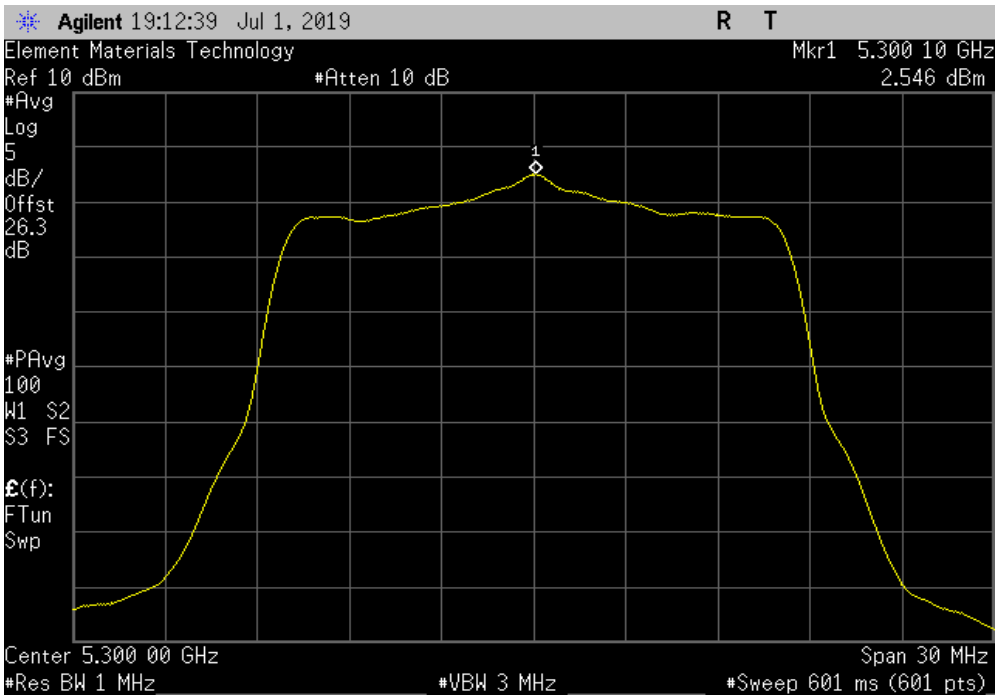
20 MHz, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.892	1.9		4.8	11	Pass



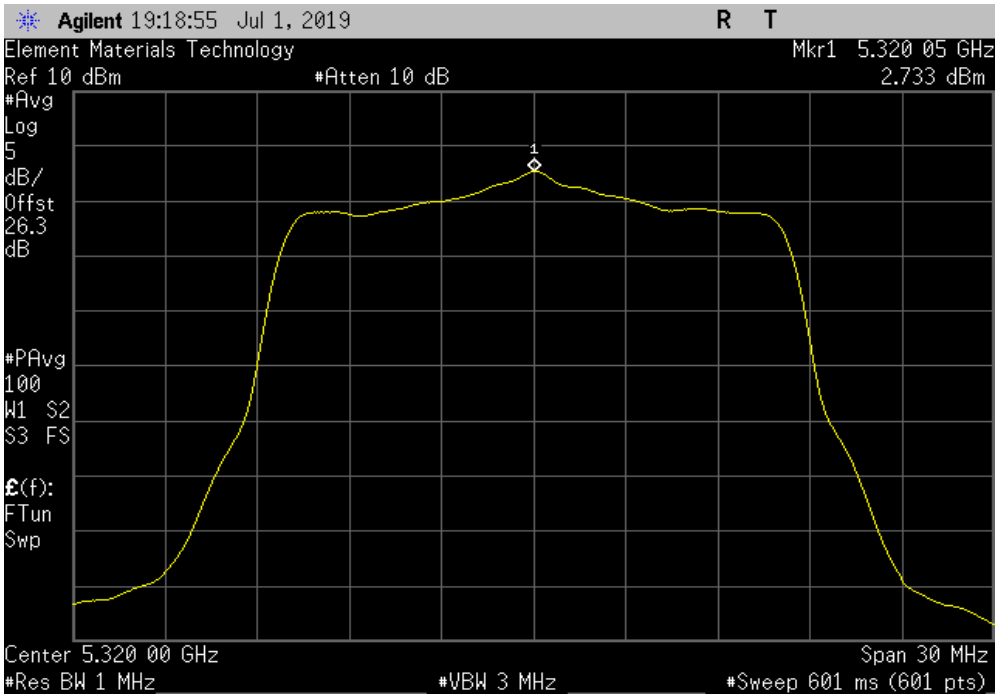
20 MHz, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.26	2		4.2	11	Pass



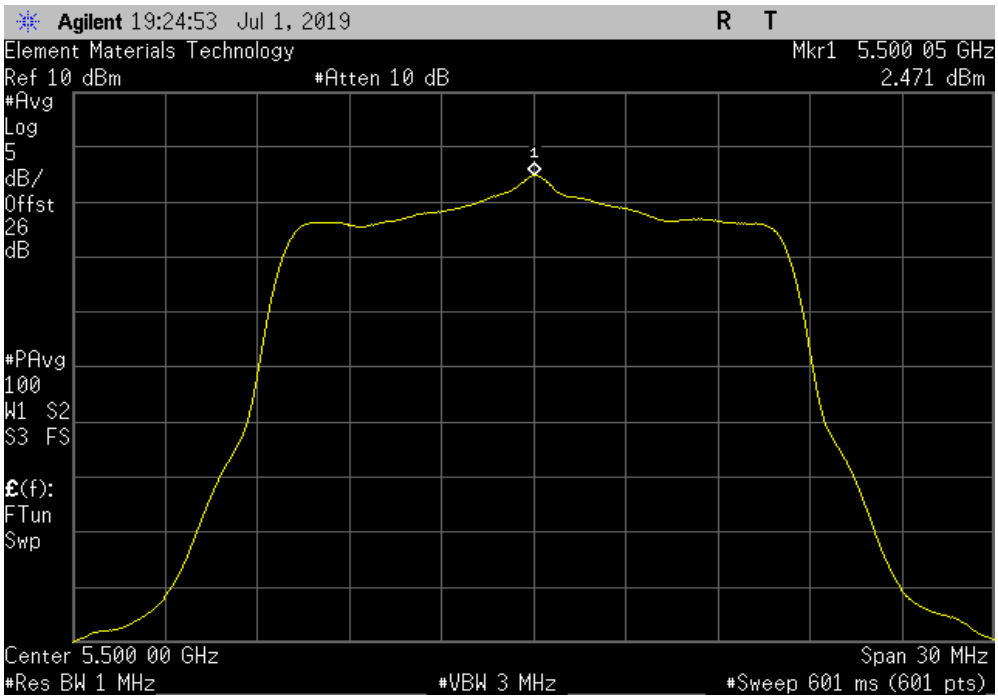
20 MHz, 802.11(a) 54 Mbps, Ch 60, Mid Channel 5300 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.546	1.9		4.5	11	Pass



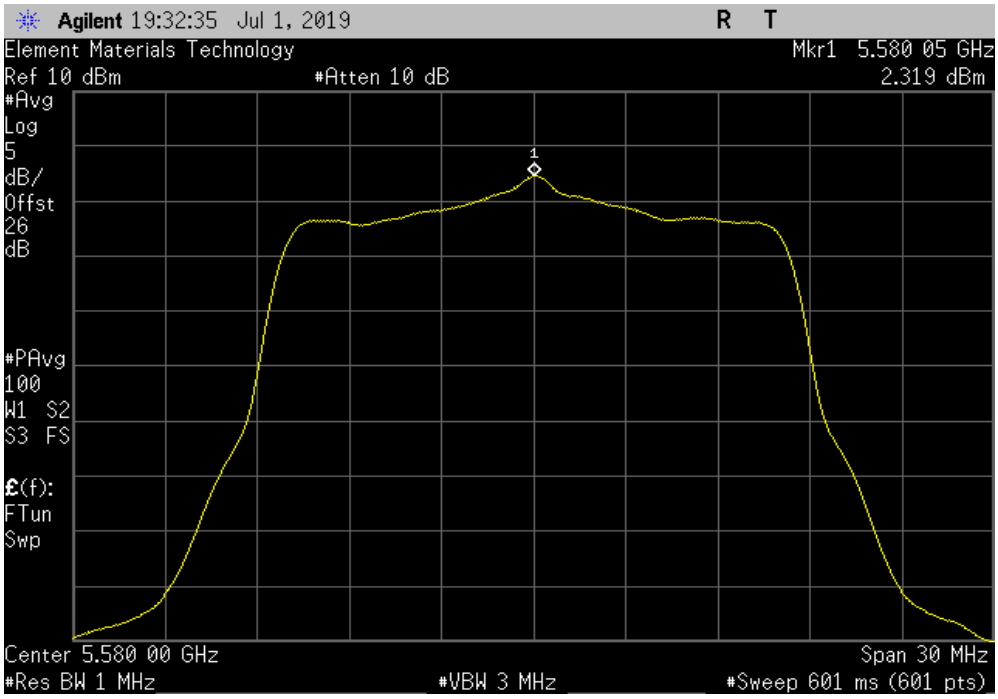
20 MHz, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.733	1.9		4.7	11	Pass



20 MHz, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.471	1.9		4.4	11	Pass

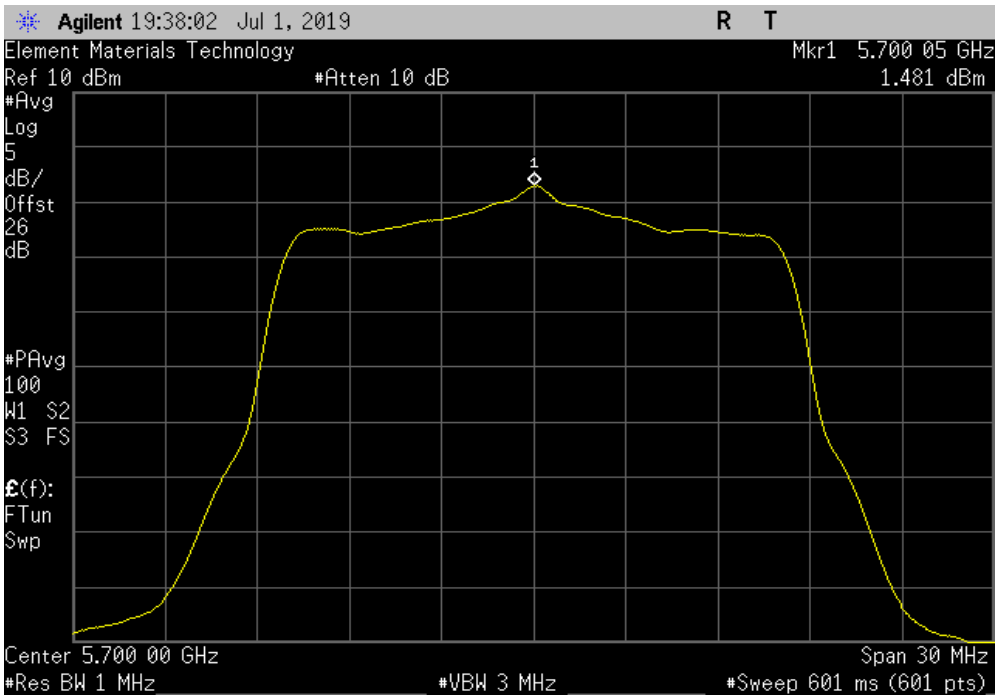


20 MHz, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.319	1.9		4.3	11	Pass

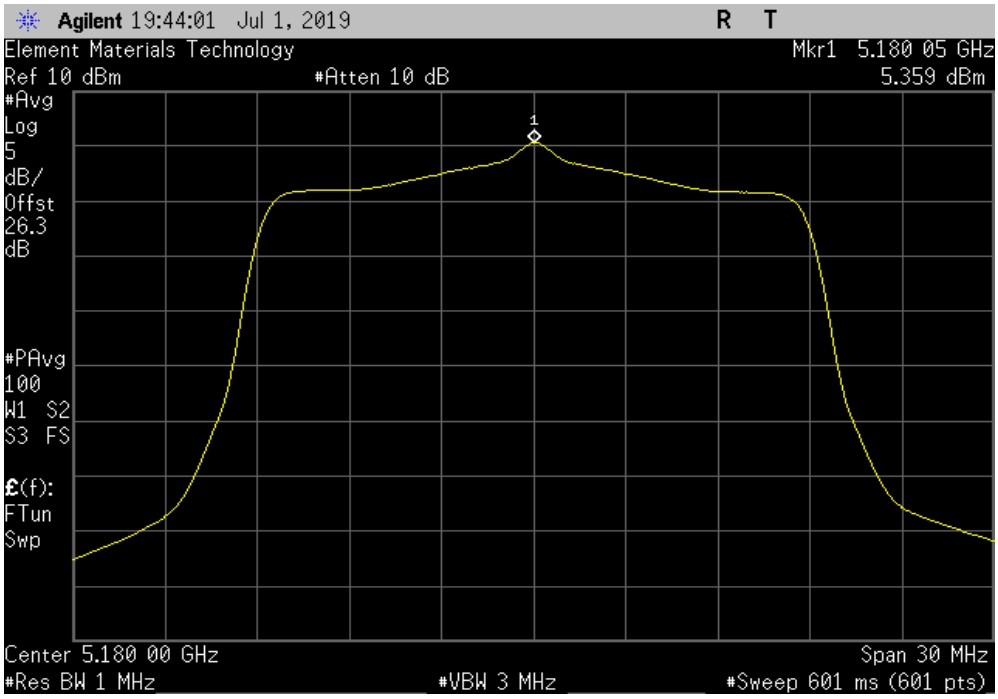


MAXIMUM POWER SPECTRAL DENSITY

20 MHz, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	1.481	1.9		3.4	11	Pass

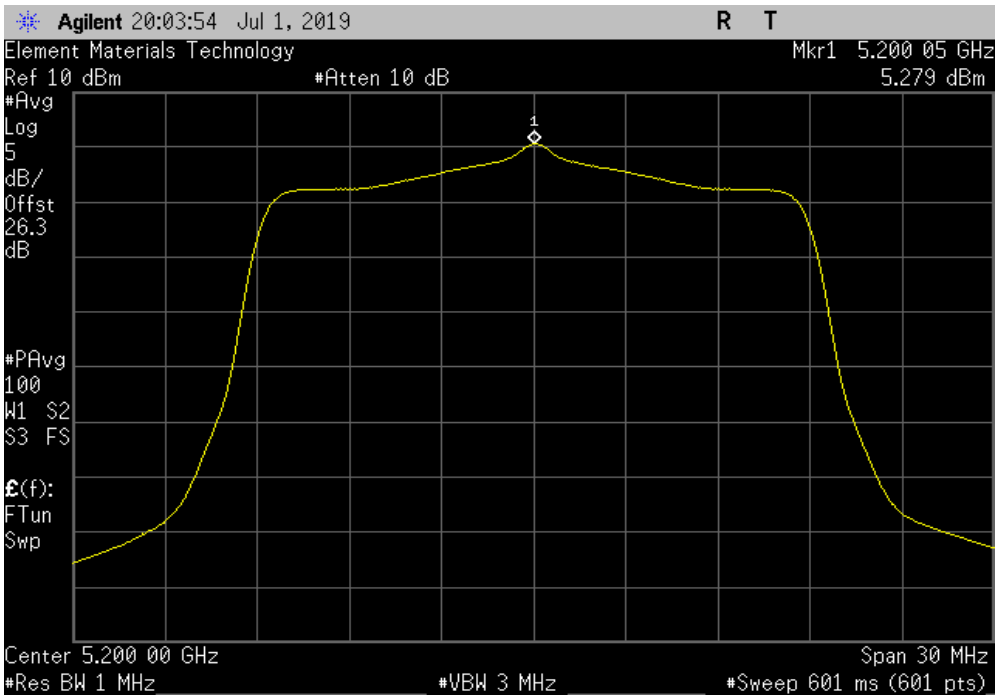


20 MHz, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	5.359	0.3		5.7	11	Pass

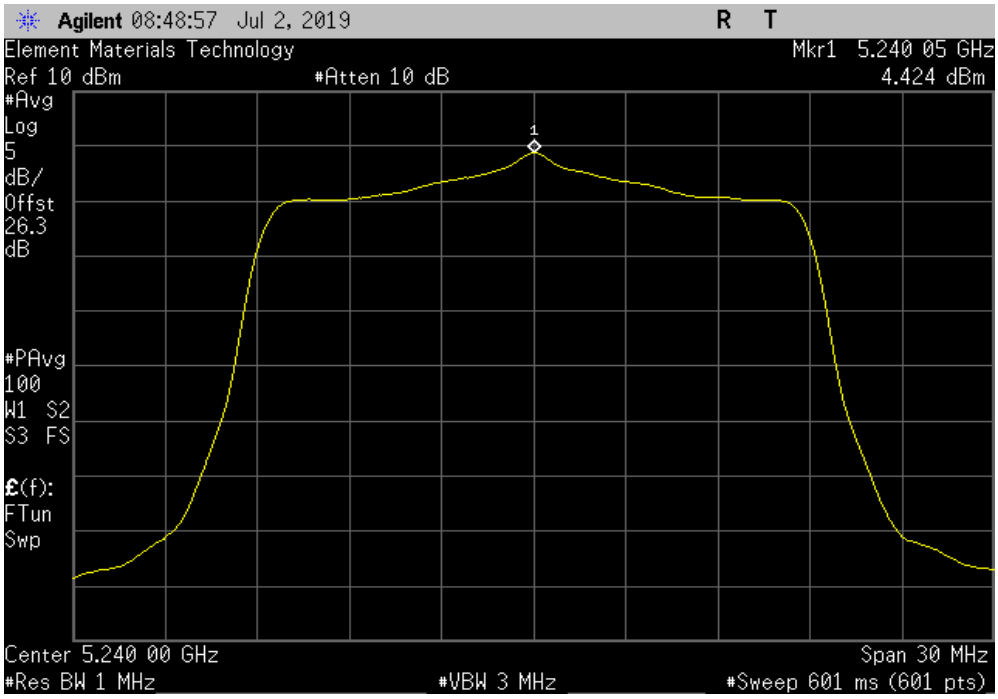


MAXIMUM POWER SPECTRAL DENSITY

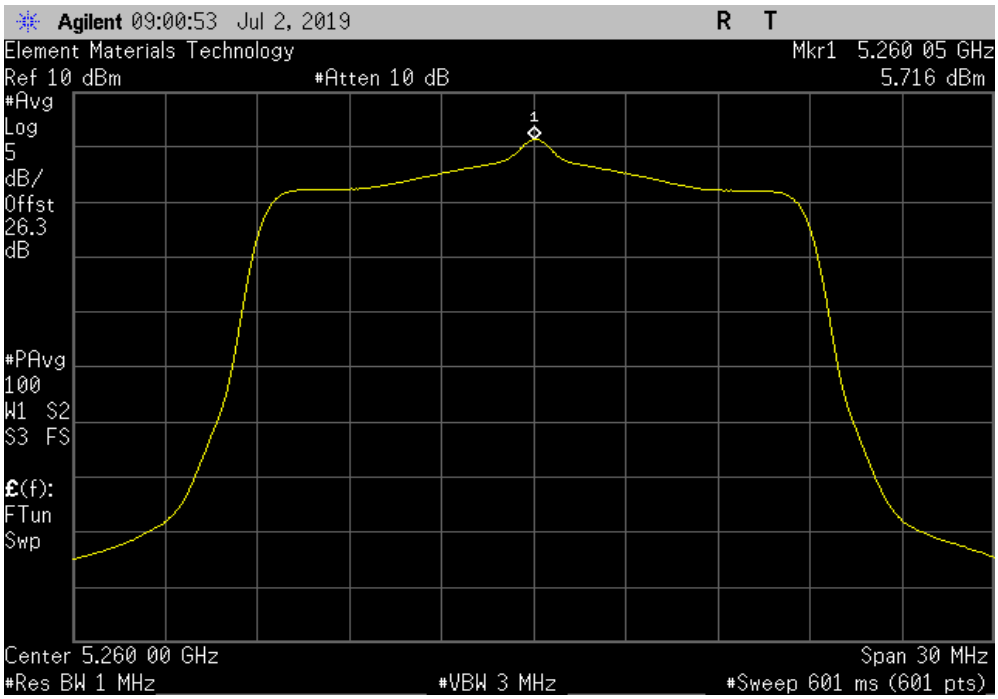
20 MHz, 802.11(n) MCS0, Ch 40, Mid Channel 5200 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	5.279	0.3		5.6	11	Pass



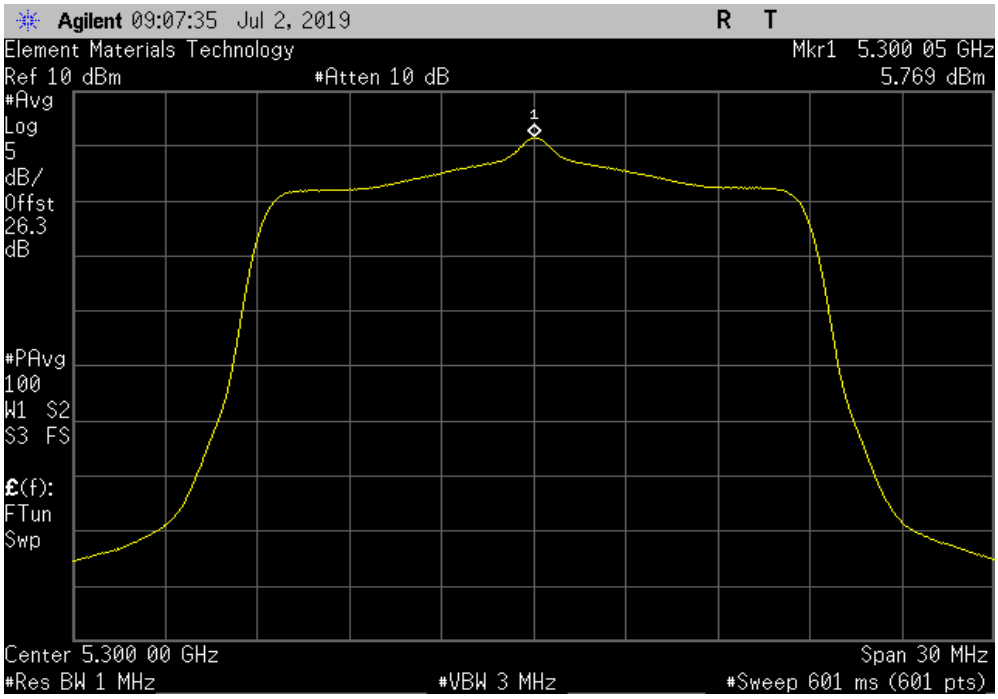
20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.424	0.3		4.7	11	Pass



20 MHz, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	5.716	0.3		6	11	Pass

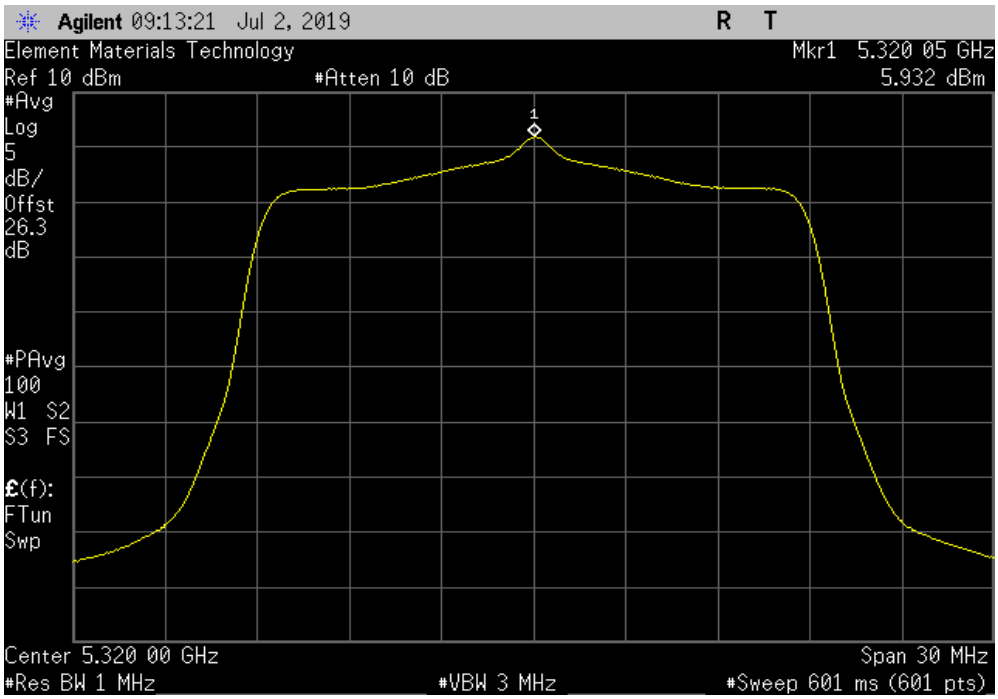


20 MHz, 802.11(n) MCS0, Ch 60, Mid Channel 5300 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	5.769	0.3		6.1	11	Pass

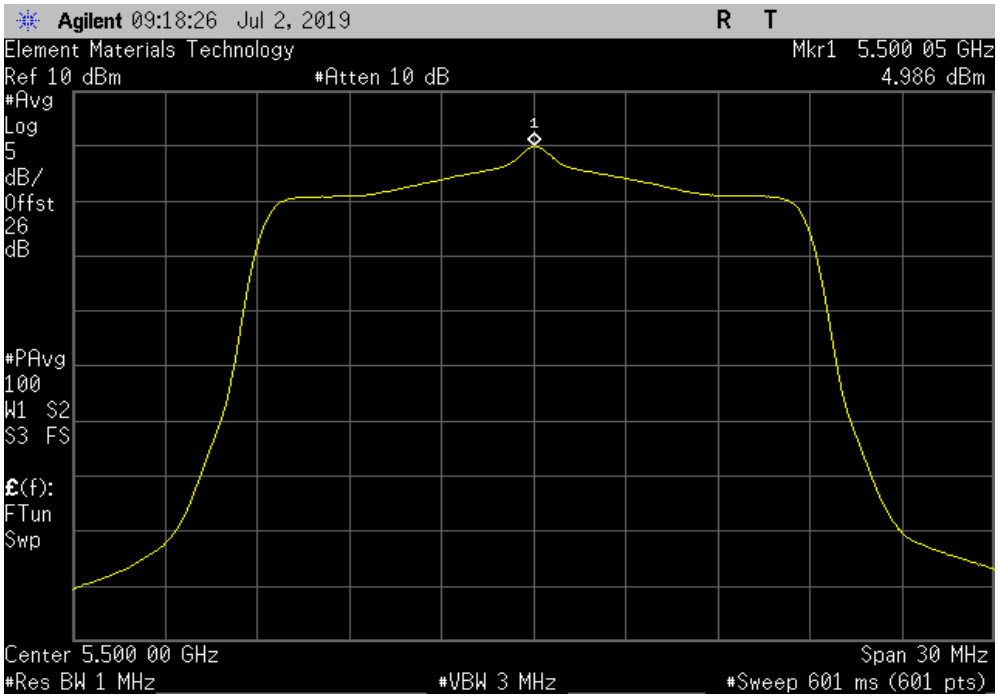


MAXIMUM POWER SPECTRAL DENSITY

20 MHz, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	5.932	0.3		6.3	11	Pass



20 MHz, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.986	0.3		5.3	11	Pass

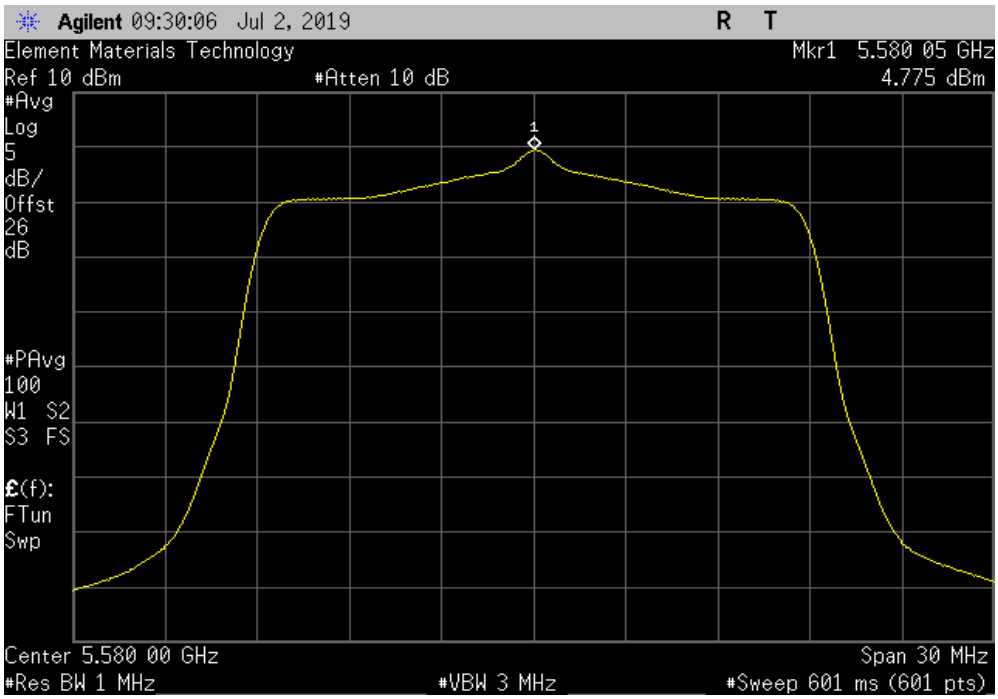


MAXIMUM POWER SPECTRAL DENSITY

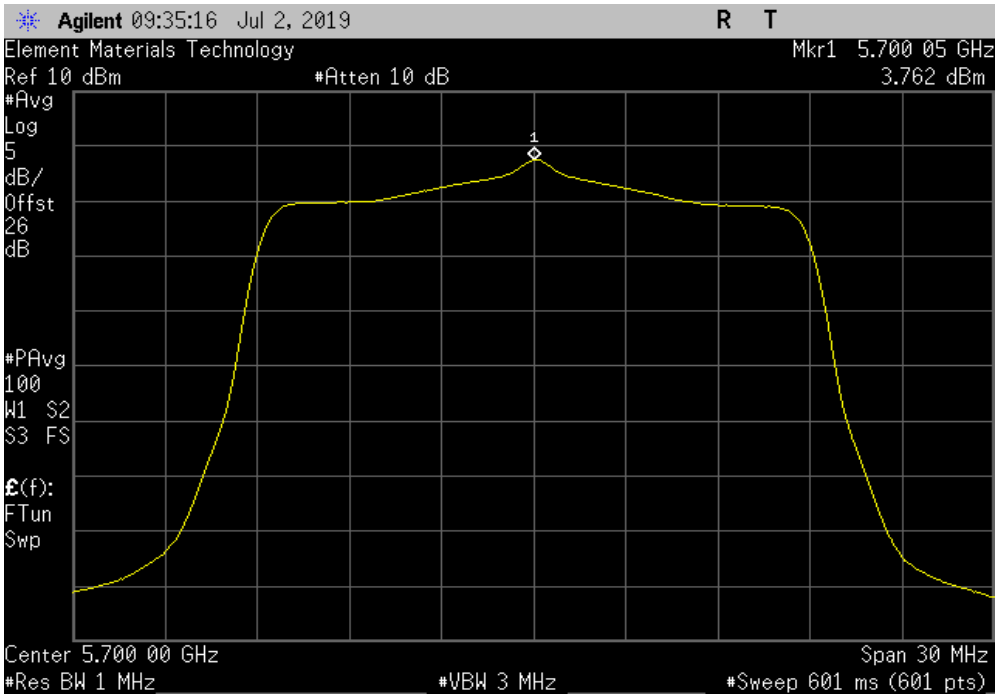
element

TbtTx 2018.09.13 XMit 2019.05.15

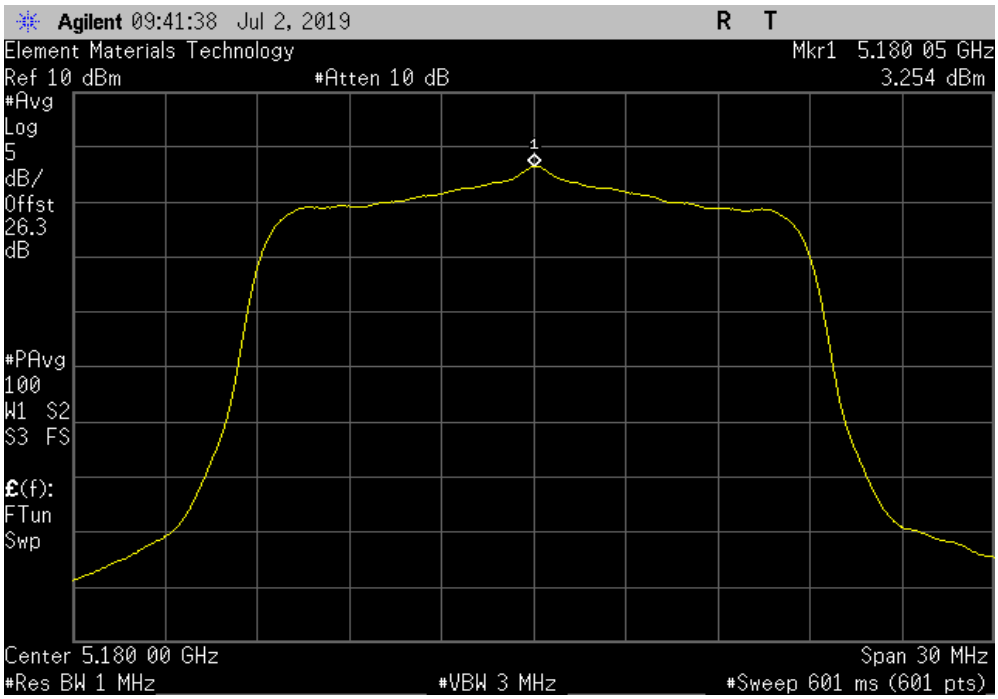
20 MHz, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	4.775	0.3		5.1	11	Pass



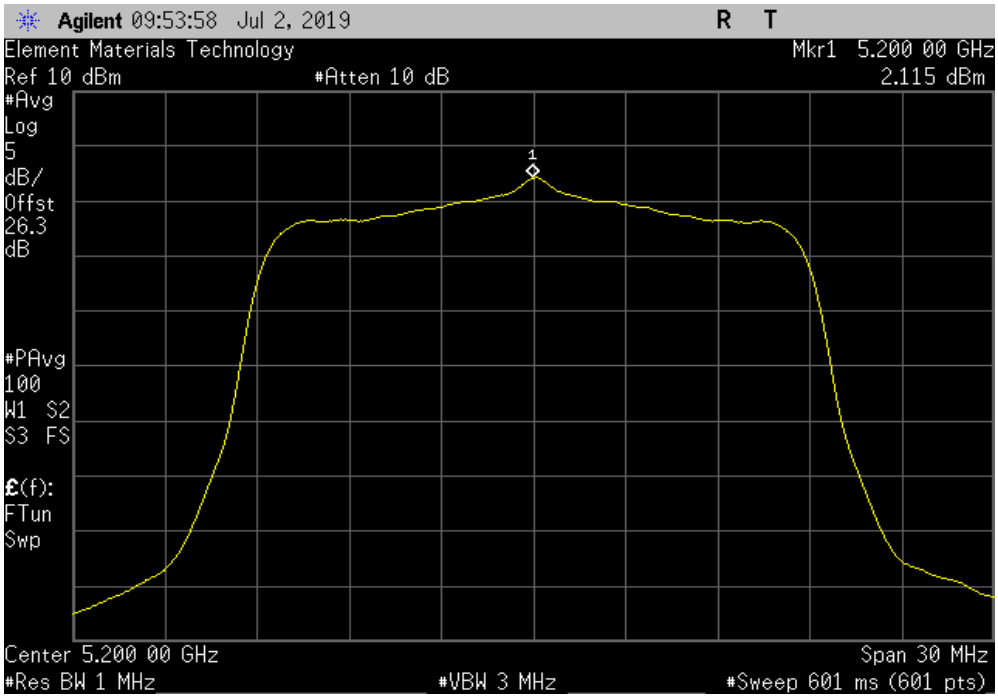
20 MHz, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.762	0.3		4.1	11	Pass



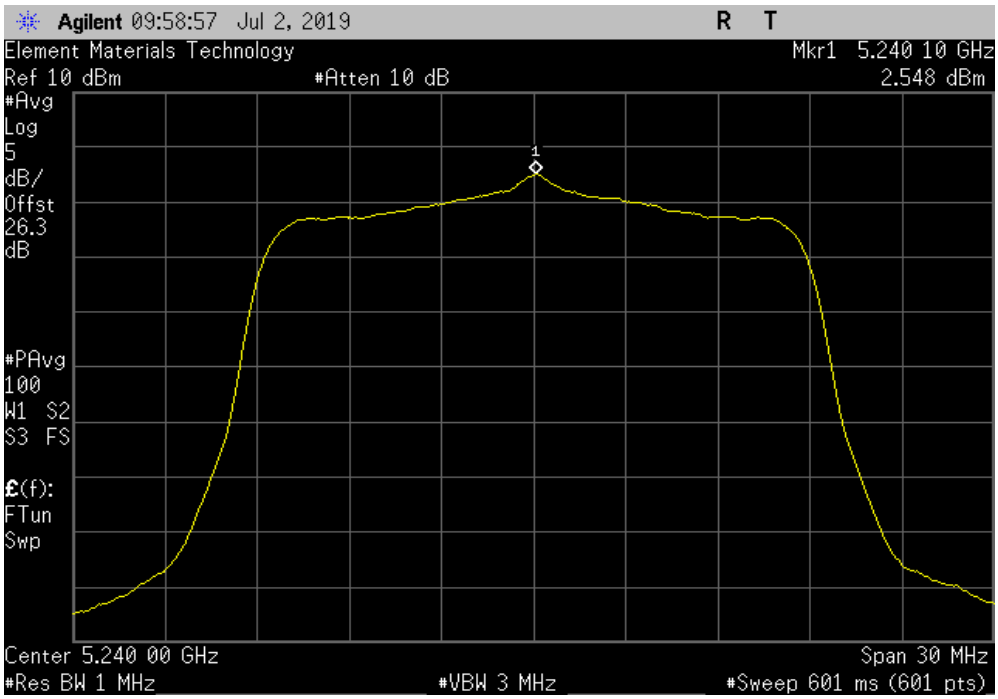
20 MHz, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.254	2.1		5.3	11	Pass



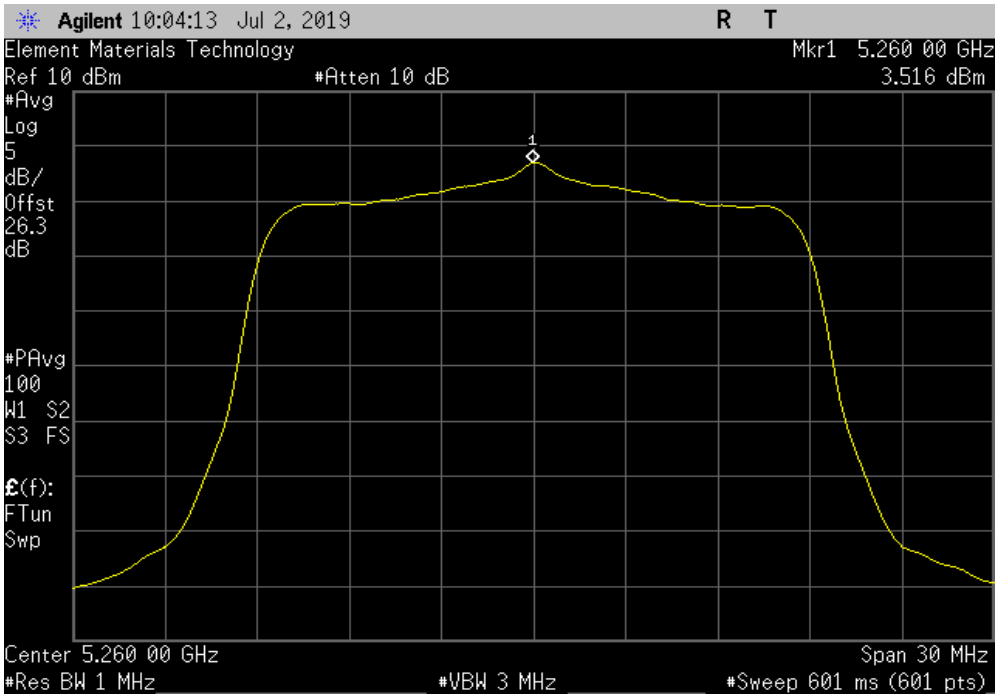
20 MHz, 802.11(n) MCS7, Ch 40, Mid Channel 5200 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.115	2.1		4.2	11	Pass



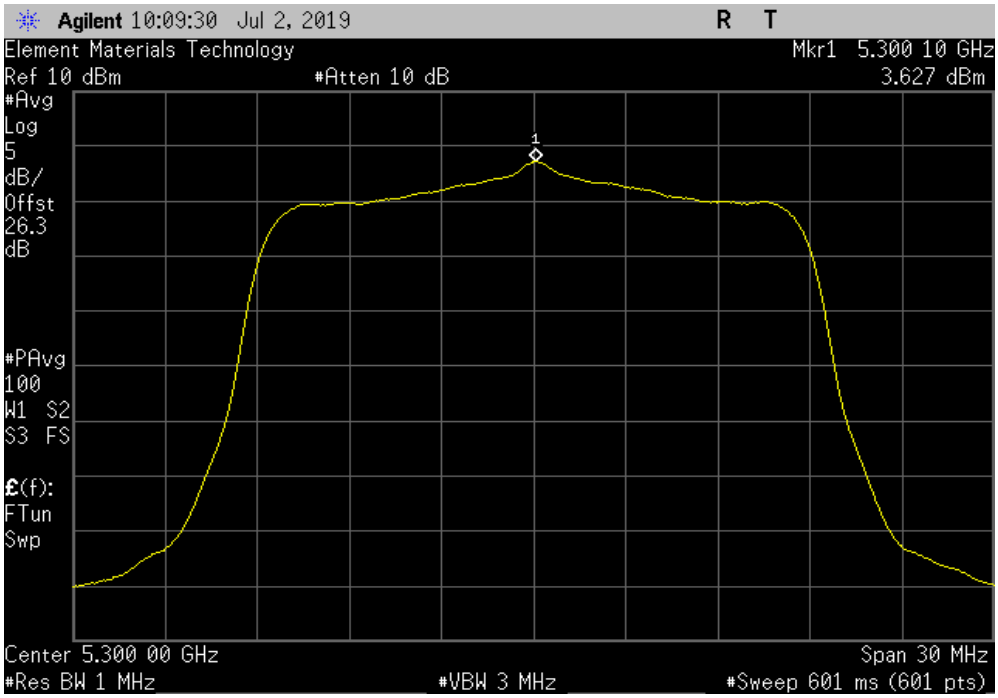
20 MHz, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.548	2.1		4.6	11	Pass



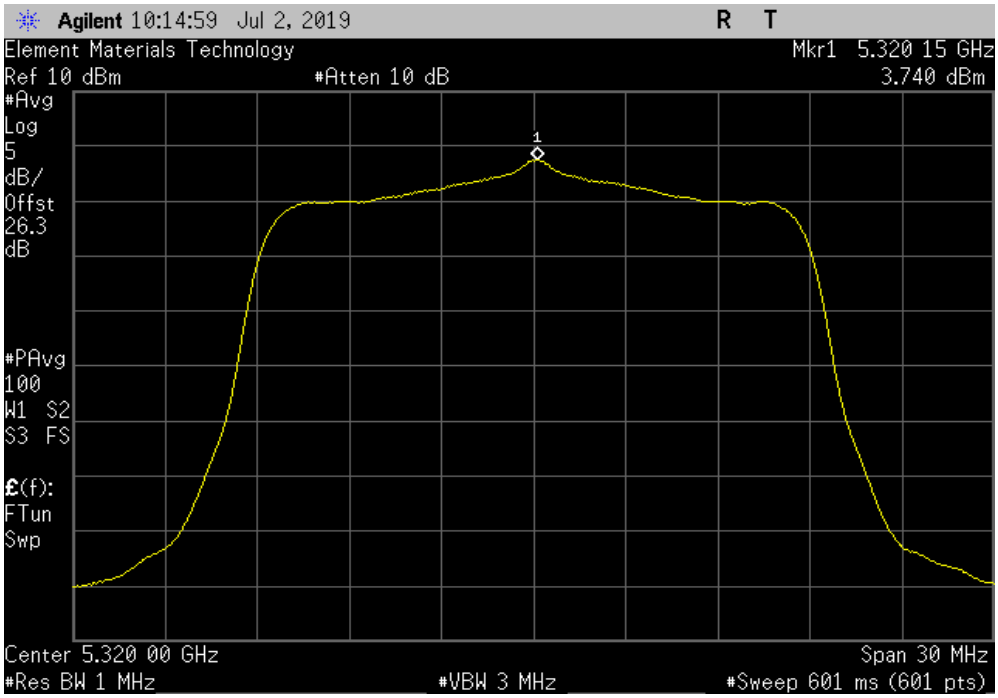
20 MHz, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.516	2.1		5.6	11	Pass



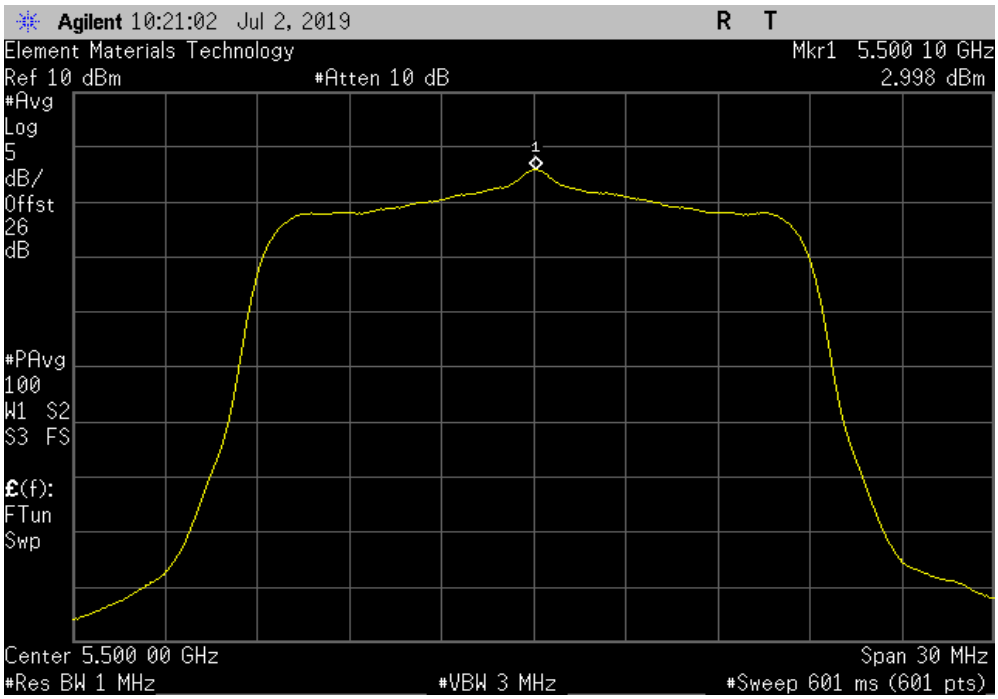
20 MHz, 802.11(n) MCS7, Ch 60, Mid Channel 5300 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.627	2		5.7	11	Pass



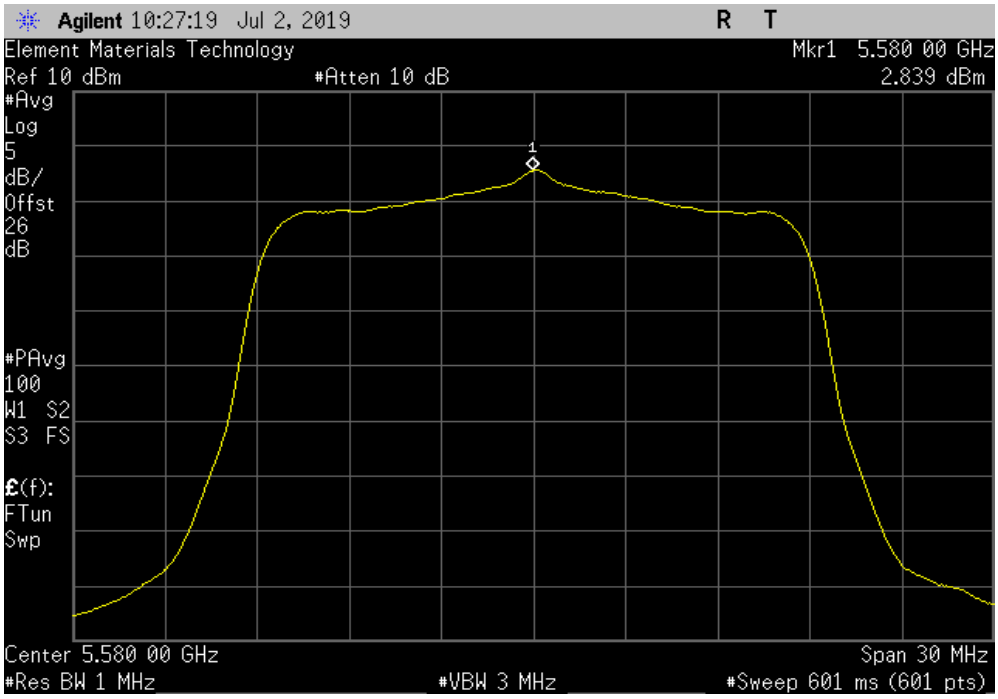
20 MHz, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	3.74	2		5.8	11	Pass



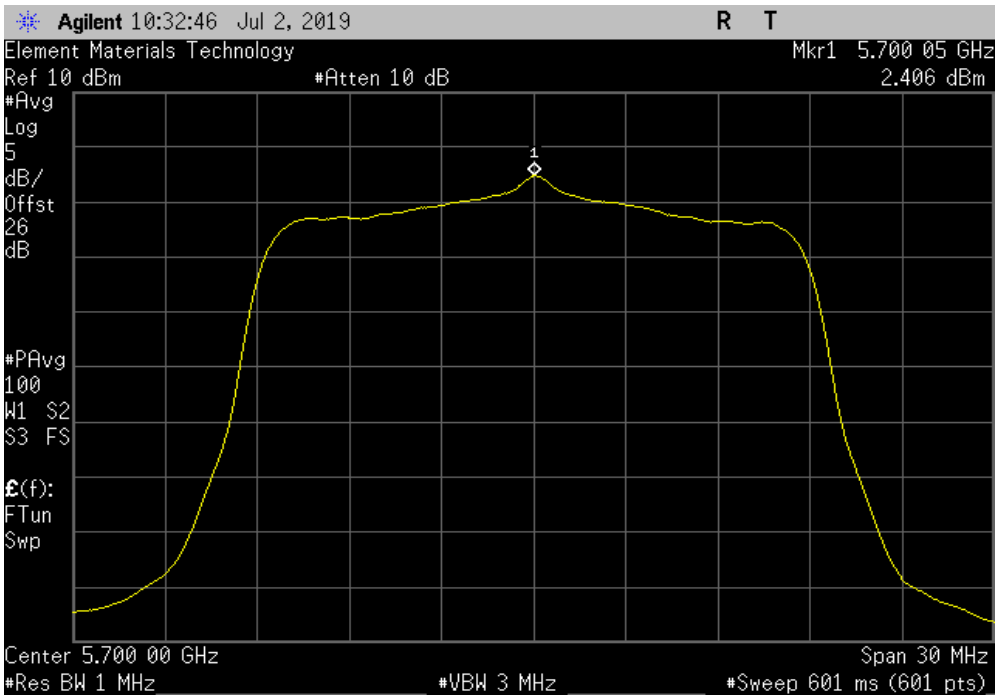
20 MHz, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.998	2		5	11	Pass



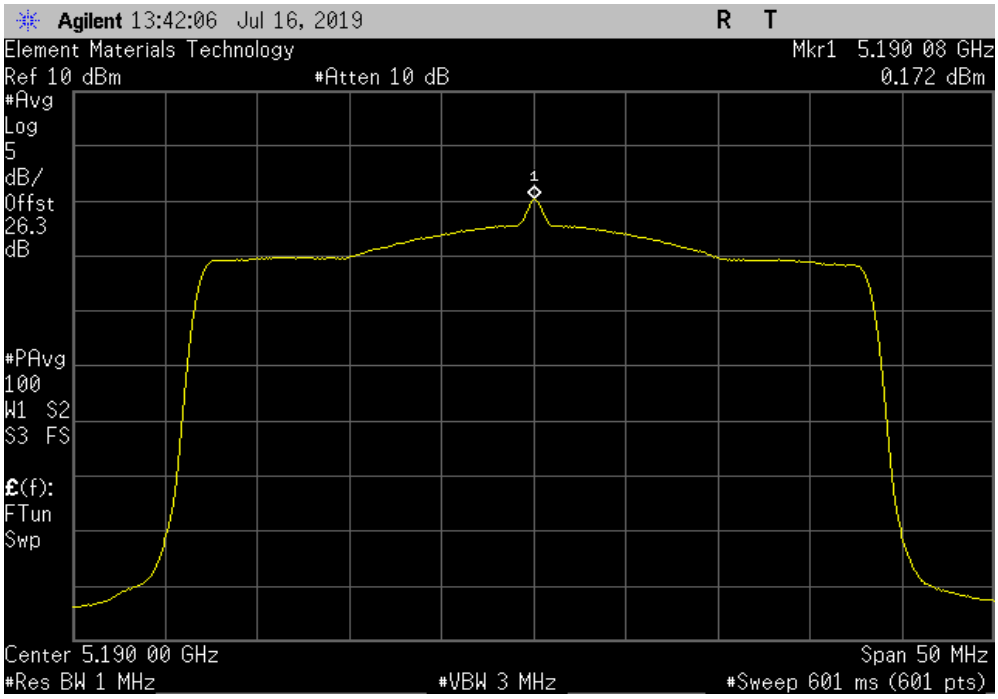
20 MHz, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.839	2		4.9	11	Pass



20 MHz, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.406	2.1		4.5	11	Pass

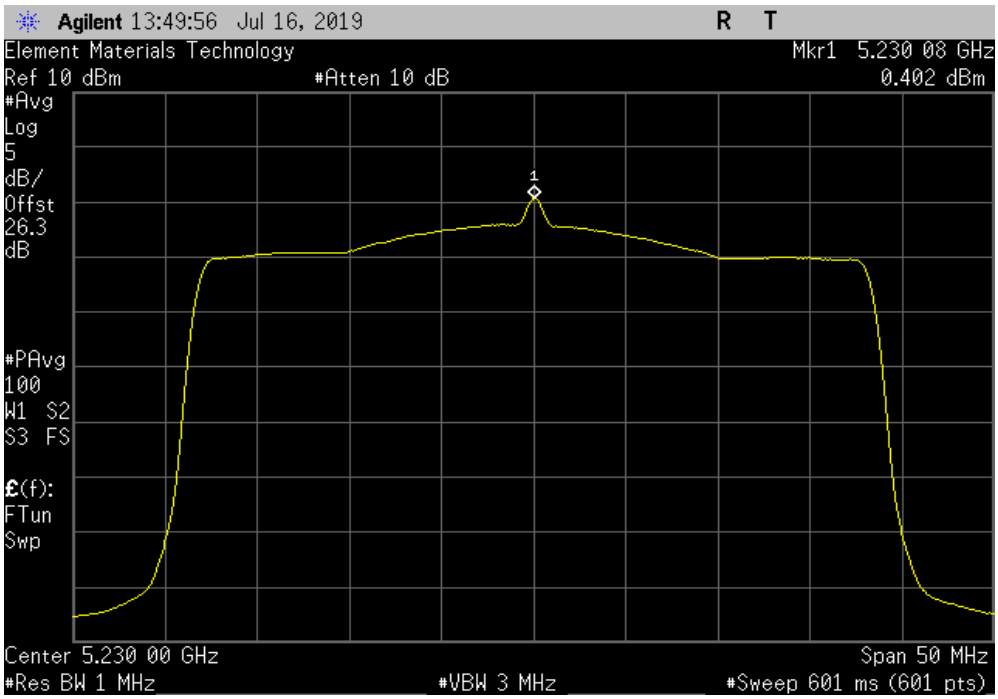


40 MHz, 802.11(n) MCS0, Ch 36/40, Low Channel 5190 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.172	0.6		0.8	11	Pass

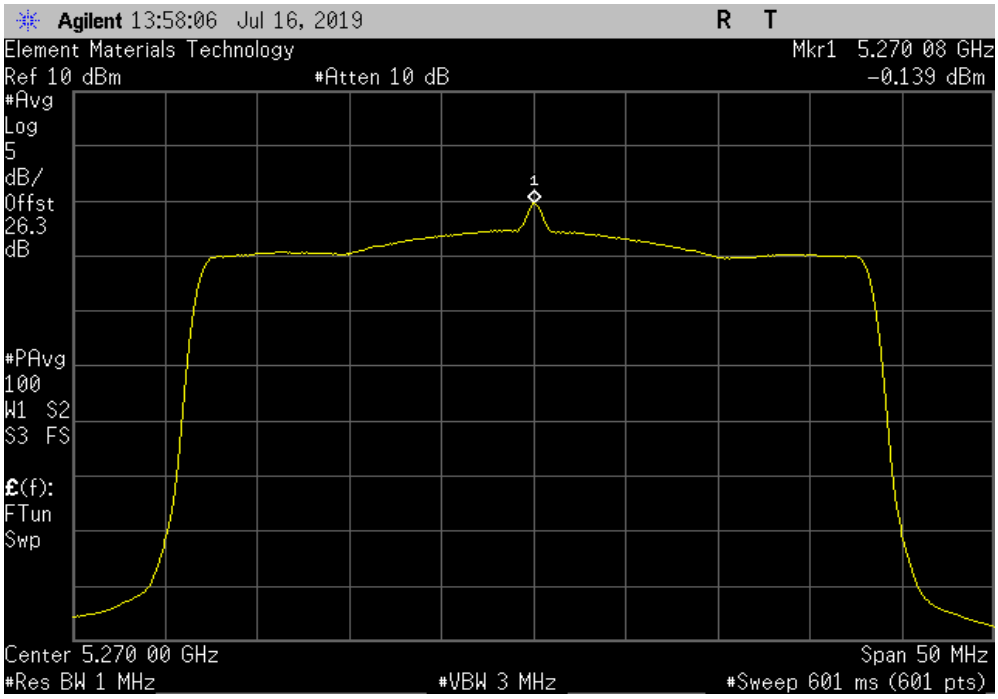


MAXIMUM POWER SPECTRAL DENSITY

40 MHz, 802.11(n) MCS0, Ch 44/48, High Channel 5230 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.402	0.6		1	11	Pass

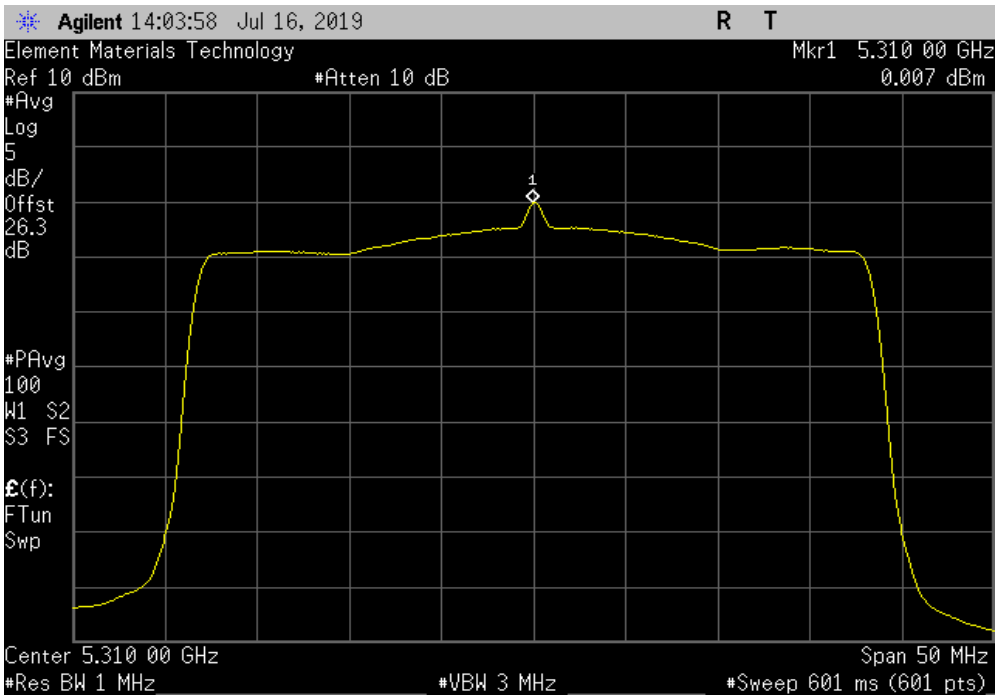


40 MHz, 802.11(n) MCS0, Ch 52/56, Low Channel 5270 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.139	0.6		0.5	11	Pass

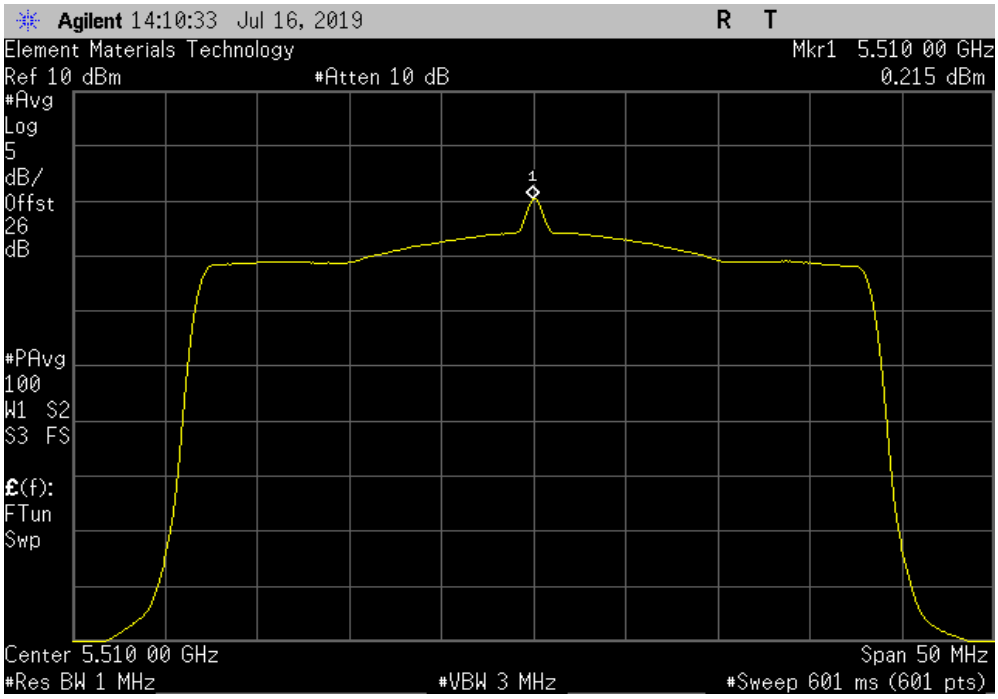


MAXIMUM POWER SPECTRAL DENSITY

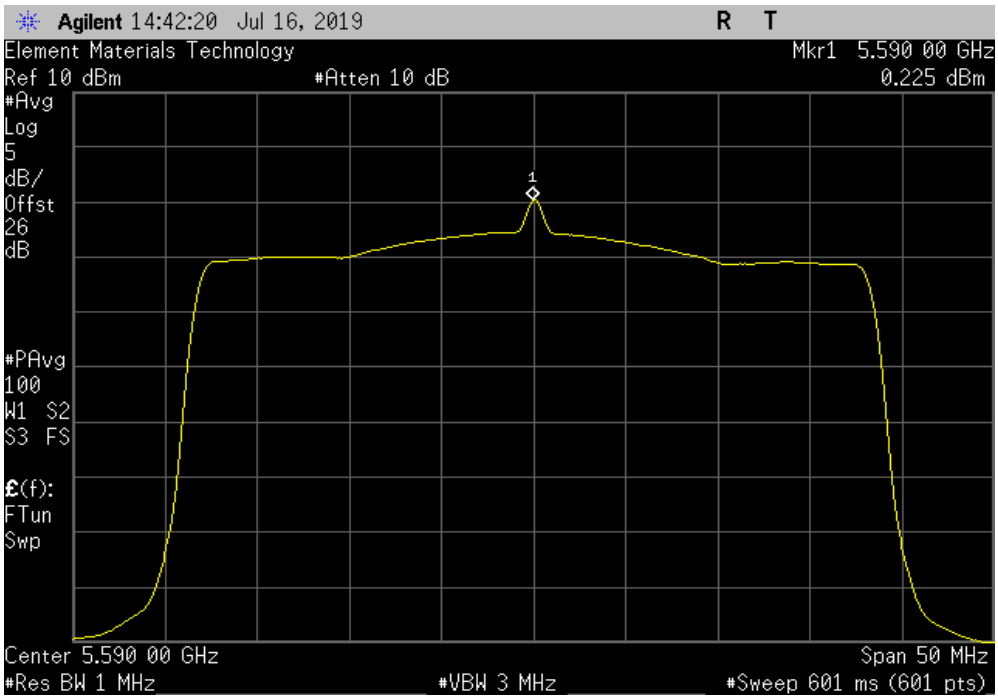
40 MHz, 802.11(n) MCS0, Ch 60/64, High Channel 5310 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.007	0.6		0.6	11	Pass



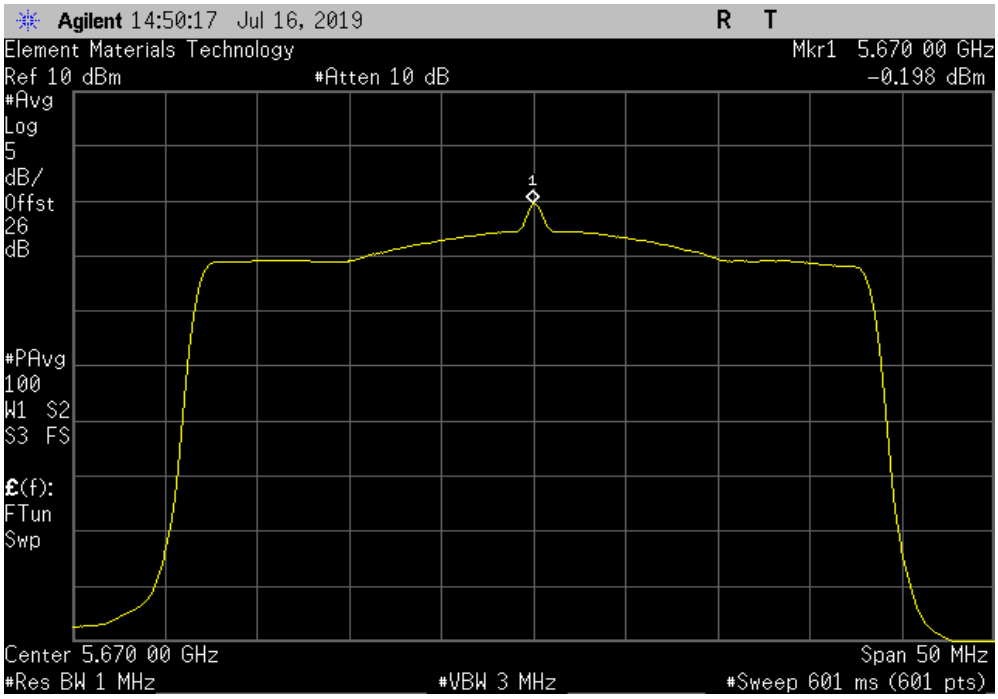
40 MHz, 802.11(n) MCS0, Ch 100/104, Low Channel 5510 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.215	0.6		0.8	11	Pass



40 MHz, 802.11(n) MCS0, Ch 116/120, Mid Channel 5590 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.225	0.6		0.8	11	Pass



40 MHz, 802.11(n) MCS0, Ch 132/136, High Channel 5670 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.198	0.6		0.4	11	Pass

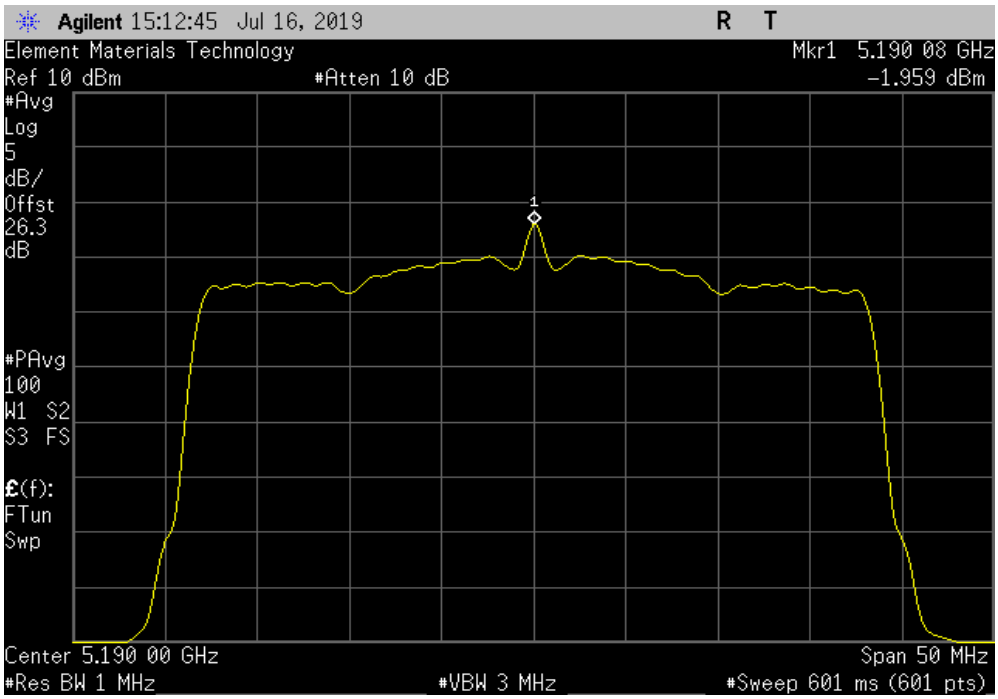


MAXIMUM POWER SPECTRAL DENSITY

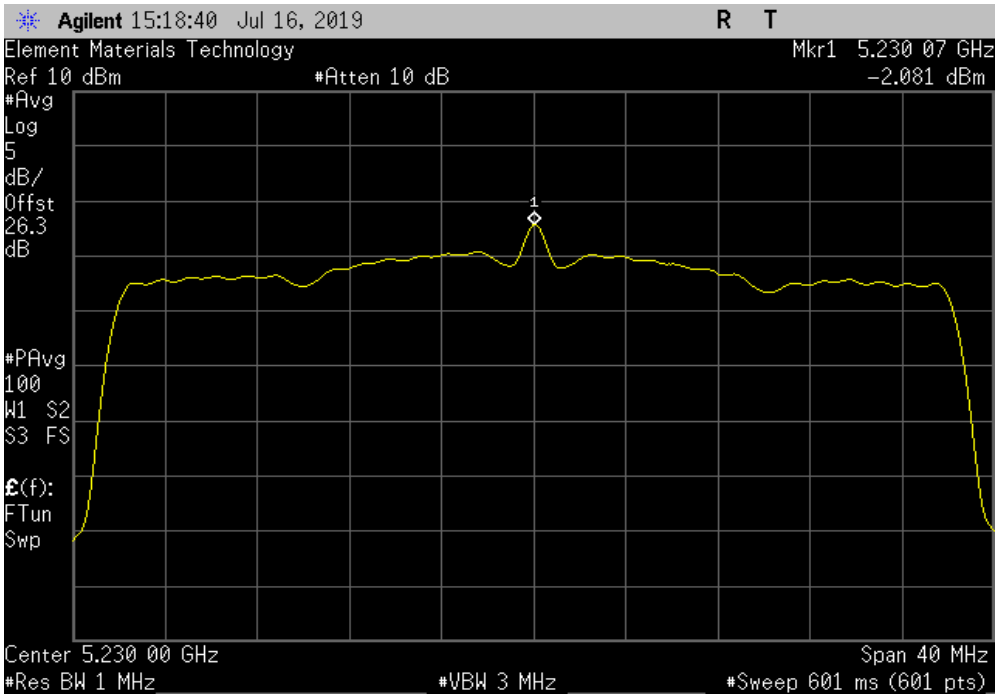
element

TbtTx 2018.09.13 XMit 2019.05.15

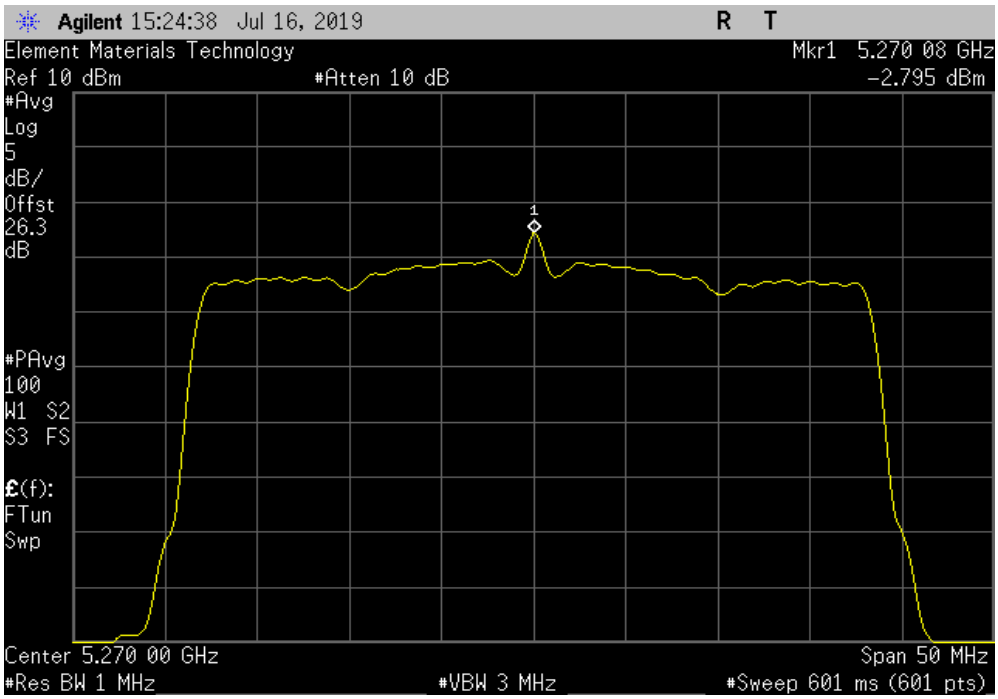
40 MHz, 802.11(n) MCS7, Ch 36/40, Low Channel 5190 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-1.959	3		1	11	Pass



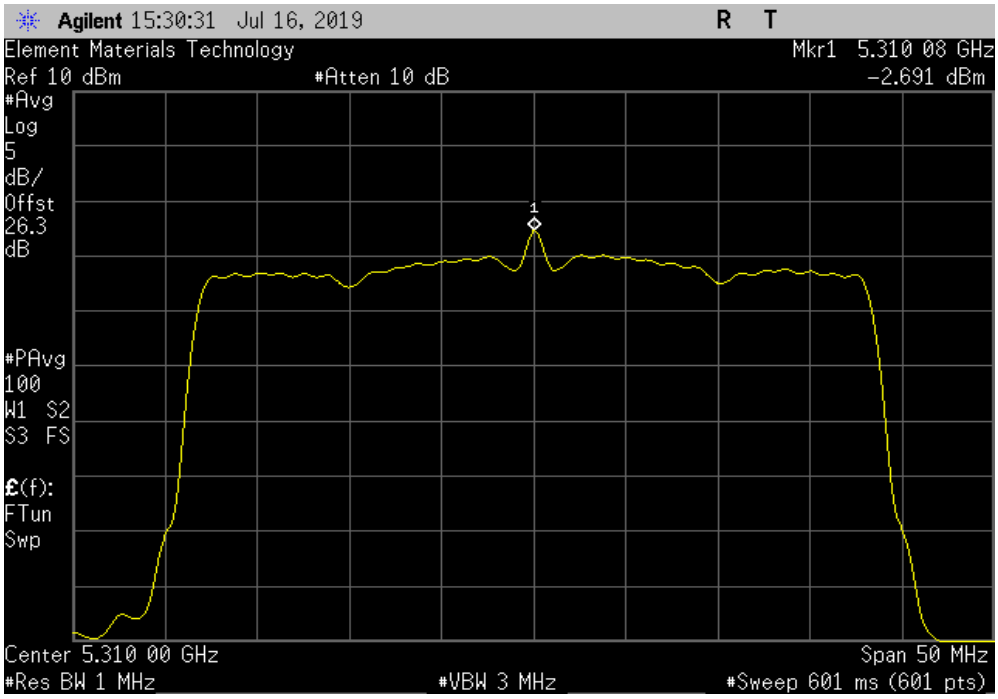
40 MHz, 802.11(n) MCS7, Ch 44/48, High Channel 5230 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.081	3		0.9	11	Pass



40 MHz, 802.11(n) MCS7, Ch 52/56, Low Channel 5270 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.795	3		0.2	11	Pass

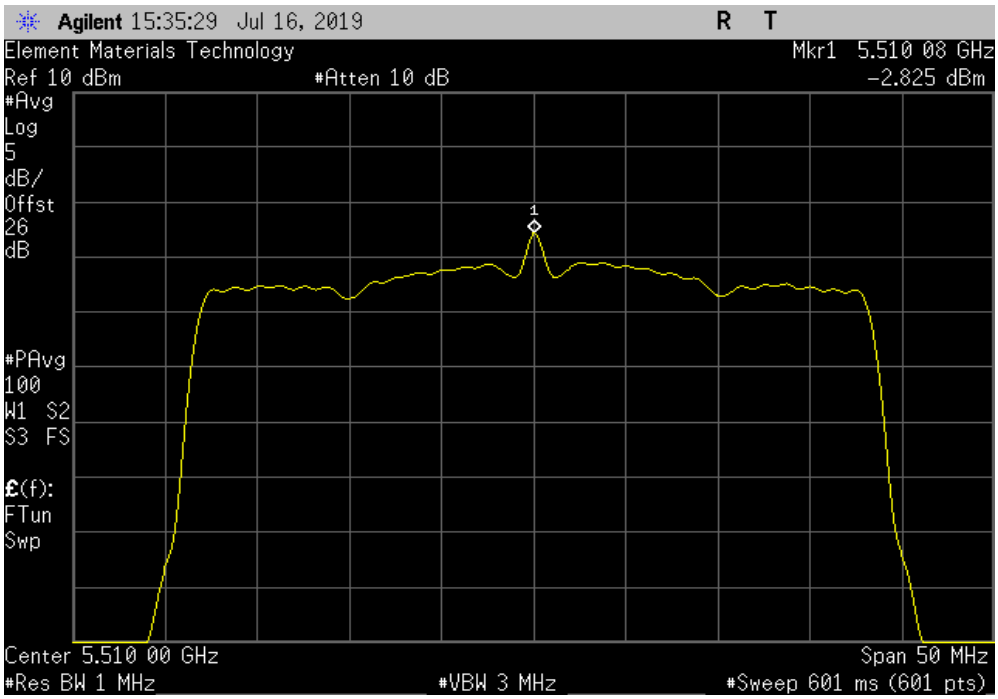


40 MHz, 802.11(n) MCS7, Ch 60/64, High Channel 5310 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.691	3		0.3	11	Pass

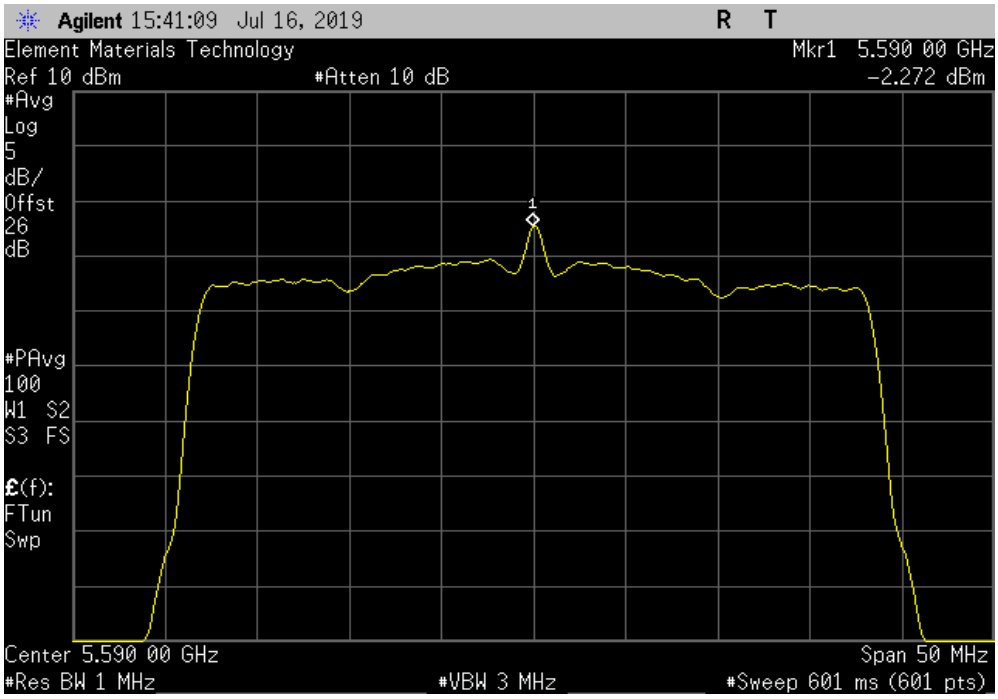


MAXIMUM POWER SPECTRAL DENSITY

40 MHz, 802.11(n) MCS7, Ch 100/104, Low Channel 5510 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.825	3		0.1	11	Pass

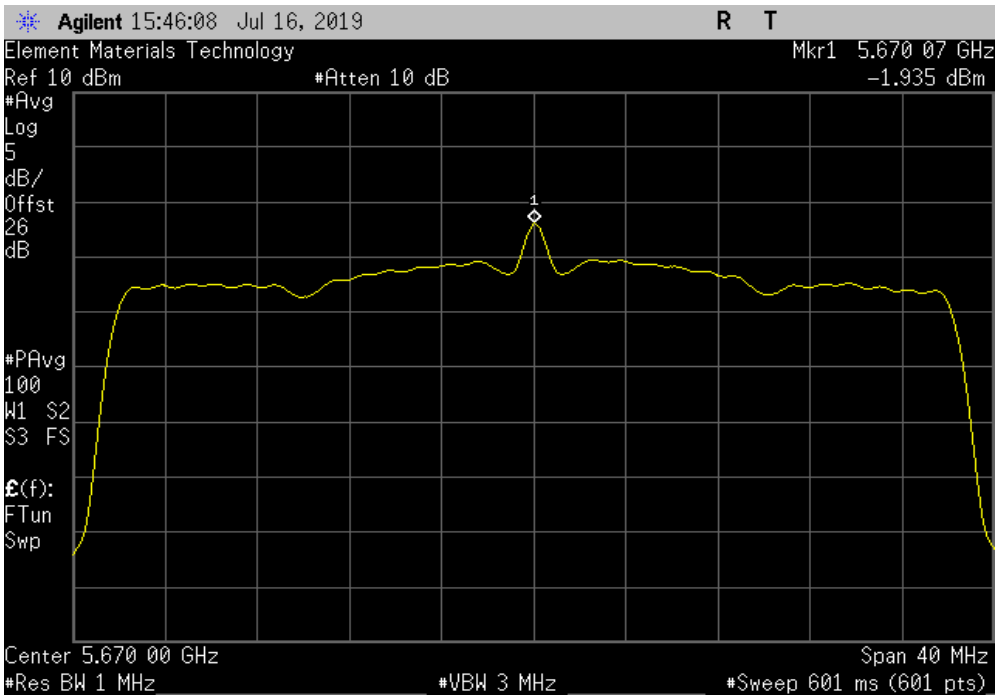


40 MHz, 802.11(n) MCS7, Ch 116/120, Mid Channel 5590 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.272	3		0.7	11	Pass



MAXIMUM POWER SPECTRAL DENSITY

40 MHz, 802.11(n) MCS7, Ch 132/136, High Channel 5670 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-1.935	2.9		1	11	Pass



MAXIMUM POWER SPECTRAL DENSITY

XMit 2019.05.15

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
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	30-Nov-18	30-Nov-19

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 power spectral density, the emission bandwidth (B) was measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report

The maximum power spectral density 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), consistent with the method used for maximum conducted output power.

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

-Resolution Bandwidth of 510 kHz

-RMS Detector

-Trace average 100 traces in power averaging mode

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in the reference bandwidth after 100 sweeps of power averaging (not video averaging).

A duty cycle correction factor was added to the measurement using the results of the formula of 10*LOG(1/D) where D is the duty cycle.

MAXIMUM POWER SPECTRAL DENSITY

element

TbtTx 2018.09.13 XMit 2019.05.15

EUT:	**MWMII**			**Work Order:**	**MASI0553**
Serial Number:	**ENG-1**			**Date:**	**16-Jul-19**
Customer:	**Masimo Corporation**			**Temperature:**	**24..5 °C**
Attendees:	**Anami Joshi & Nghi Nguyen**			**Humidity:**	**47.2% RH**
Project:	**None**			**Barometric Pres.:**	**1015 mbar**
Tested by:	**Nolan De Ramos, Luis Flores, and Mark Baytan**	**Power:**	**3.6VDC**	**Job Site:**	**OC13**

TEST SPECIFICATIONS	**Test Method**
FCC 15.407:2019	ANSI C63.10:2013

COMMENTS

Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26.3dB Total Offset (5.2 GHz - 5.35 GHz)
Reference level offset: DC block + 20dB attenuator + coax cable + client provided patch cable = 26dB Total Offset (5.35 GHz - 5.8 GHz)

DEVIATIONS FROM TEST STANDARD

None

Configuration #	**8**	

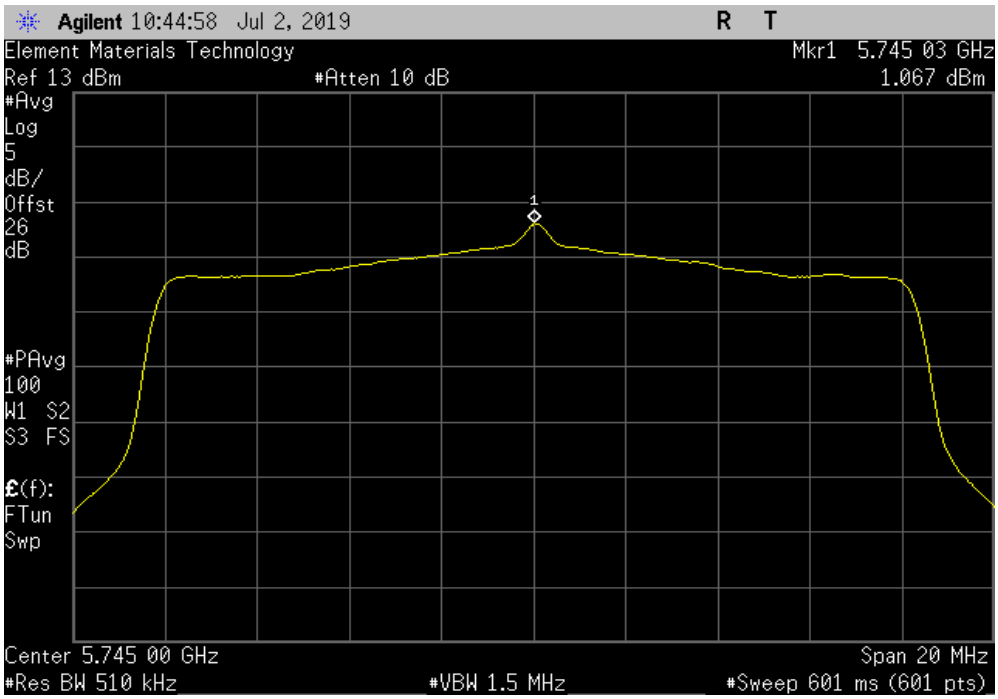
		Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
20 MHz						
	802.11(a) 6 Mbps					
	Ch 149, Low Channel 5745 MHz	1.067	0.3	1.4	30	Pass
	Ch 157, Mid Channel 5785 MHz	0.753	0.3	1.0	30	Pass
	Ch 165, High Channel 5825 MHz	0.686	0.3	1.0	30	Pass
	802.11(a) 36 Mbps					
	Ch 149, Low Channel 5745 MHz	0.359	1.4	1.8	30	Pass
	Ch 157, Mid Channel 5785 MHz	-0.065	1.4	1.4	30	Pass
	Ch 165, High Channel 5825 MHz	0.126	1.4	1.6	30	Pass
	802.11(a) 54 Mbps					
	Ch 149, Low Channel 5745 MHz	-0.183	1.9	1.8	30	Pass
	Ch 157, Mid Channel 5785 MHz	-0.672	1.9	1.3	30	Pass
	Ch 165, High Channel 5825 MHz	-0.427	2.0	1.5	30	Pass
	802.11(n) MCS0					
	Ch 149, Low Channel 5745 MHz	2.791	0.3	3.1	30	Pass
	Ch 157, Mid Channel 5785 MHz	1.684	0.3	2.0	30	Pass
	Ch 165, High Channel 5825 MHz	1.861	0.3	2.2	30	Pass
	802.11(n) MCS7					
	Ch 149, Low Channel 5745 MHz	0.723	2.0	2.8	30	Pass
	Ch 157, Mid Channel 5785 MHz	0.225	2.0	2.3	30	Pass
	Ch 165, High Channel 5825 MHz	0.014	2.0	2.1	30	Pass
40 MHz						
	802.11(n) MCS0					
	Ch 149/153, Low Channel 5755 MHz	-0.735	0.6	-0.1	11	Pass
	Ch 157/161, High Channel 5795 MHz	-1.013	0.6	-0.4	11	Pass
	802.11(n) MCS7					
	Ch 149/153, Low Channel 5755 MHz	-2.538	2.9	0.4	11	Pass
	Ch 157/161, High Channel 5795 MHz	-2.422	2.9	0.5	11	Pass

MAXIMUM POWER SPECTRAL DENSITY

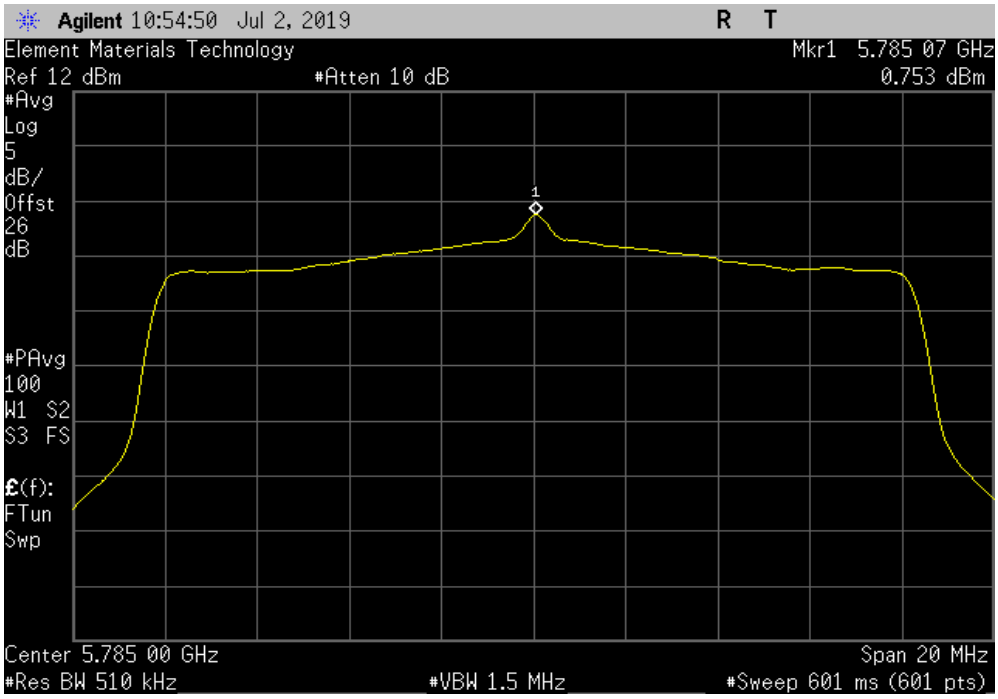
element

TbtTx 2018.09.13 XMit 2019.05.15

20 MHz, 802.11(a) 6 Mbps, Ch 149, Low Channel 5745 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	1.067	0.3		1.4	30	Pass

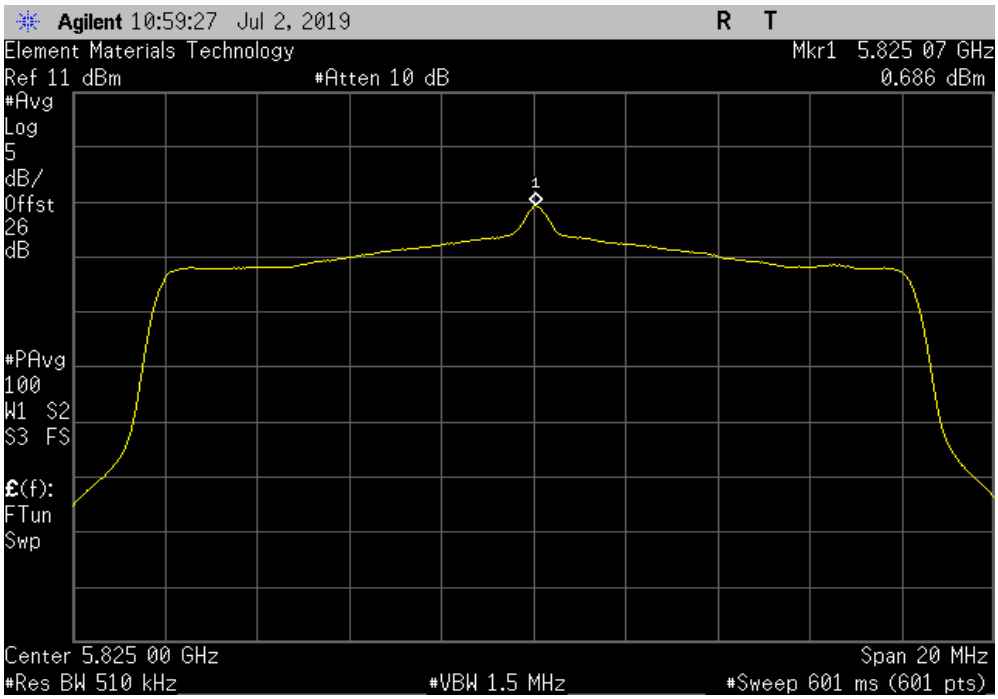


20 MHz, 802.11(a) 6 Mbps, Ch 157, Mid Channel 5785 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.753	0.3		1	30	Pass

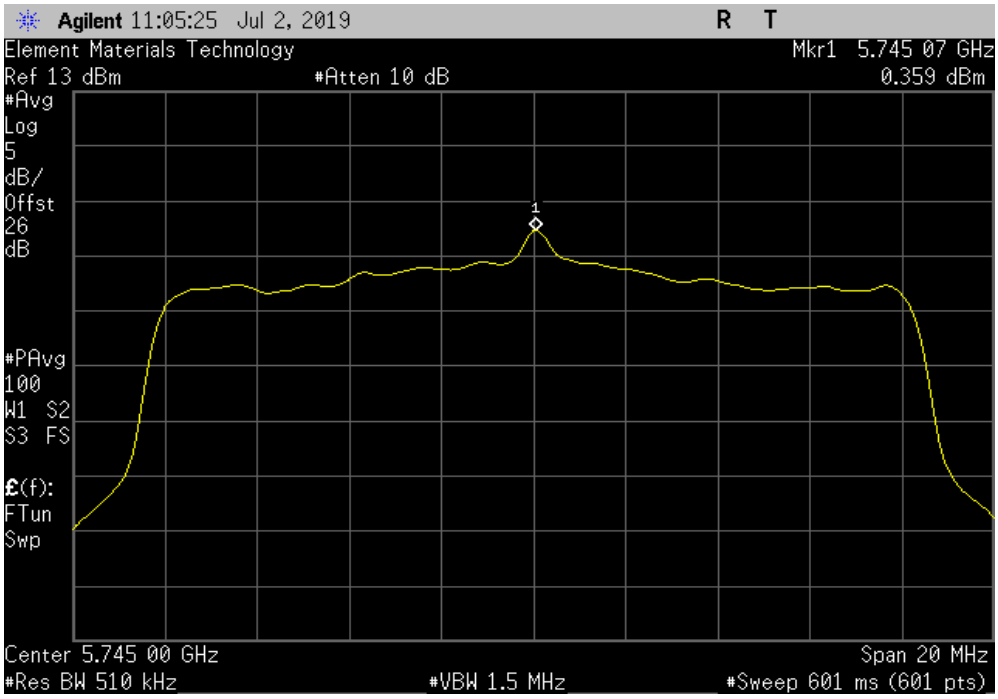


MAXIMUM POWER SPECTRAL DENSITY

20 MHz, 802.11(a) 6 Mbps, Ch 165, High Channel 5825 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.686	0.3		1	30	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 149, Low Channel 5745 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.359	1.4		1.8	30	Pass

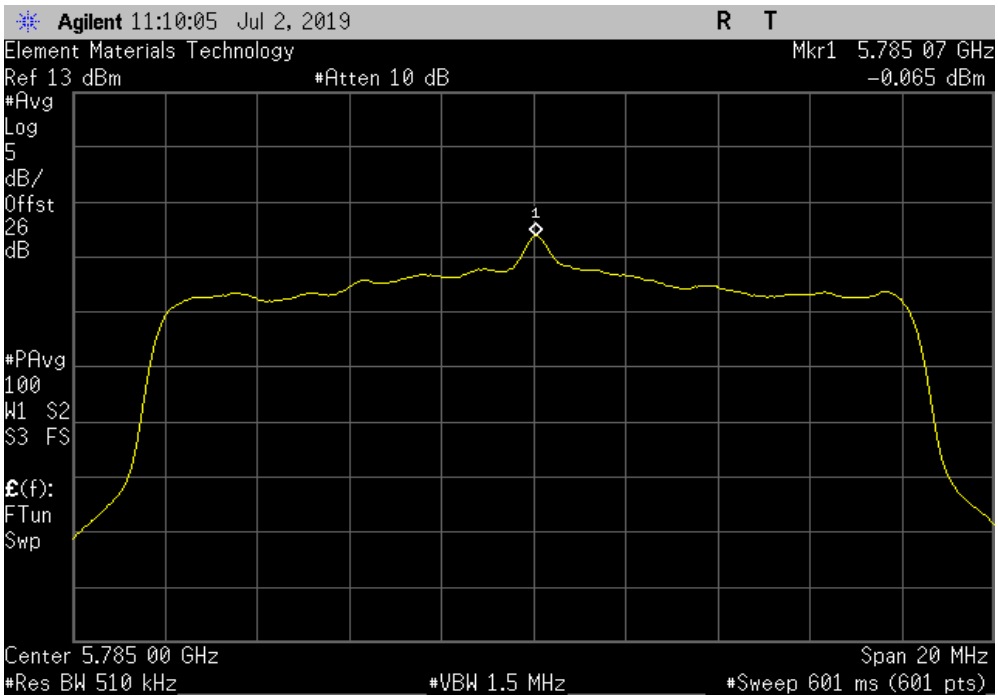


MAXIMUM POWER SPECTRAL DENSITY

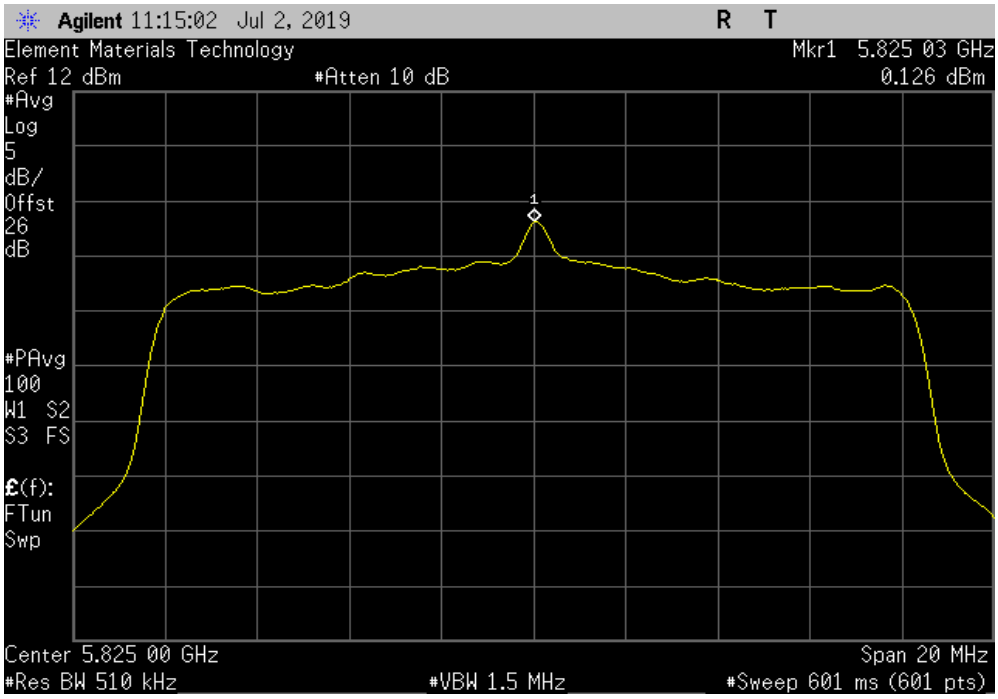
element

TbtTx 2018.09.13 XMit 2019.05.15

20 MHz, 802.11(a) 36 Mbps, Ch 157, Mid Channel 5785 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.065	1.4		1.4	30	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 165, High Channel 5825 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.126	1.4		1.6	30	Pass

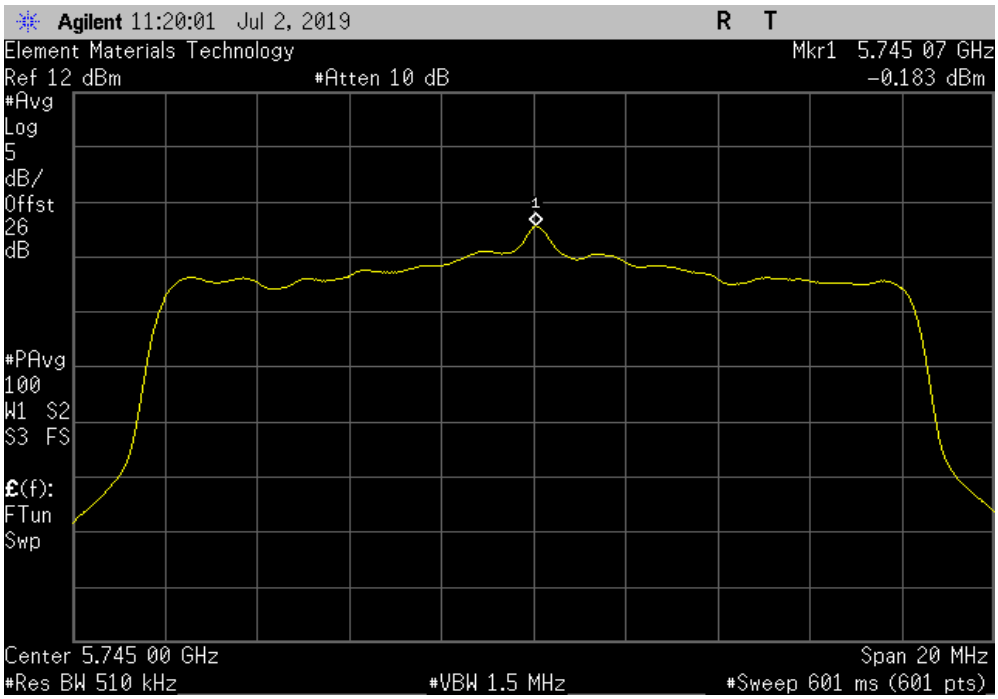


MAXIMUM POWER SPECTRAL DENSITY

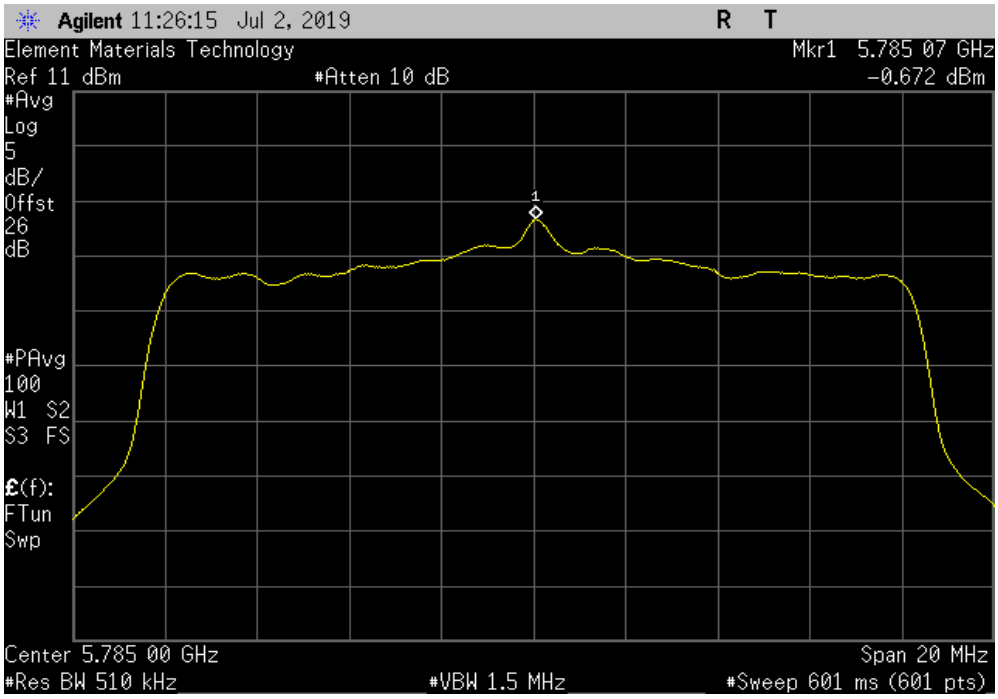
element

TbtTx 2018.09.13 XMit 2019.05.15

20 MHz, 802.11(a) 54 Mbps, Ch 149, Low Channel 5745 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.183	1.9		1.8	30	Pass



20 MHz, 802.11(a) 54 Mbps, Ch 157, Mid Channel 5785 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.672	1.9		1.3	30	Pass

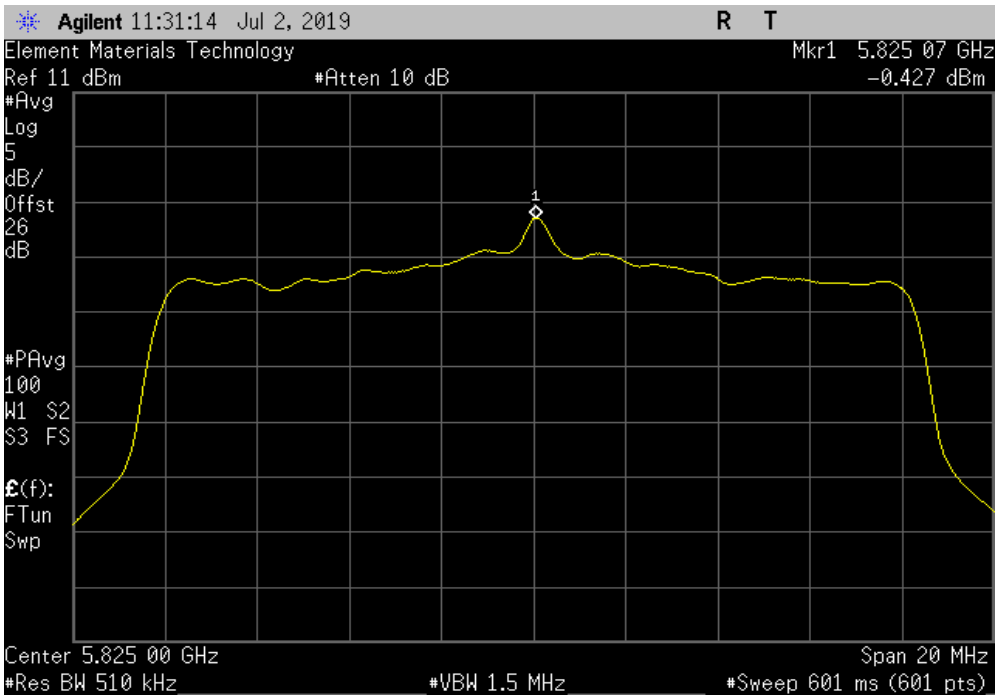


MAXIMUM POWER SPECTRAL DENSITY

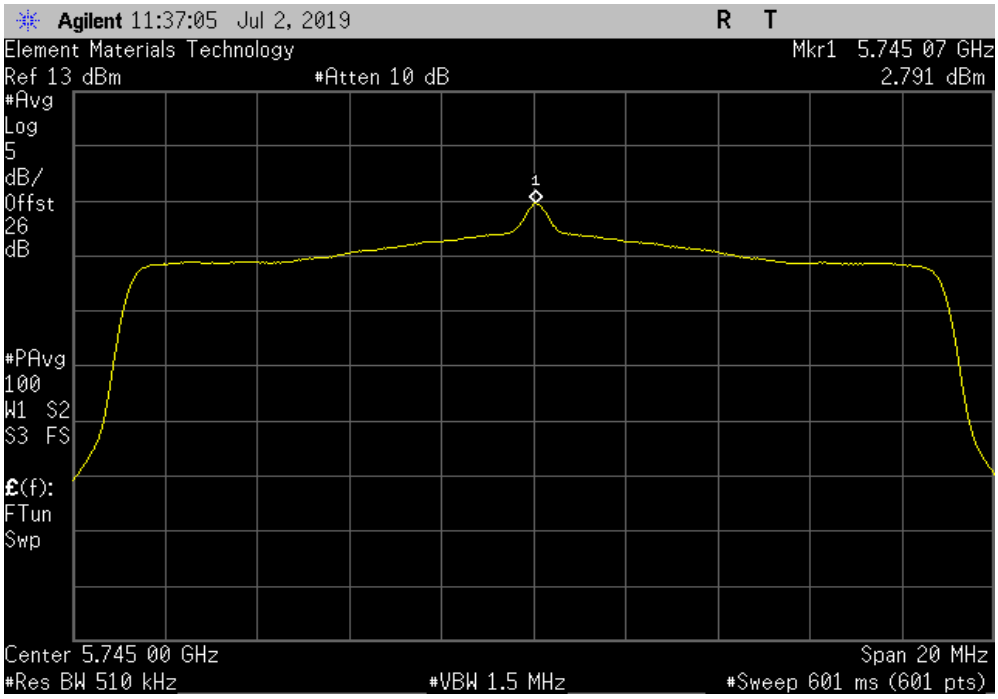
element

TbtTx 2018.09.13 XMit 2019.05.15

20 MHz, 802.11(a) 54 Mbps, Ch 165, High Channel 5825 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.427	2		1.5	30	Pass



20 MHz, 802.11(n) MCS0, Ch 149, Low Channel 5745 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	2.791	0.3		3.1	30	Pass

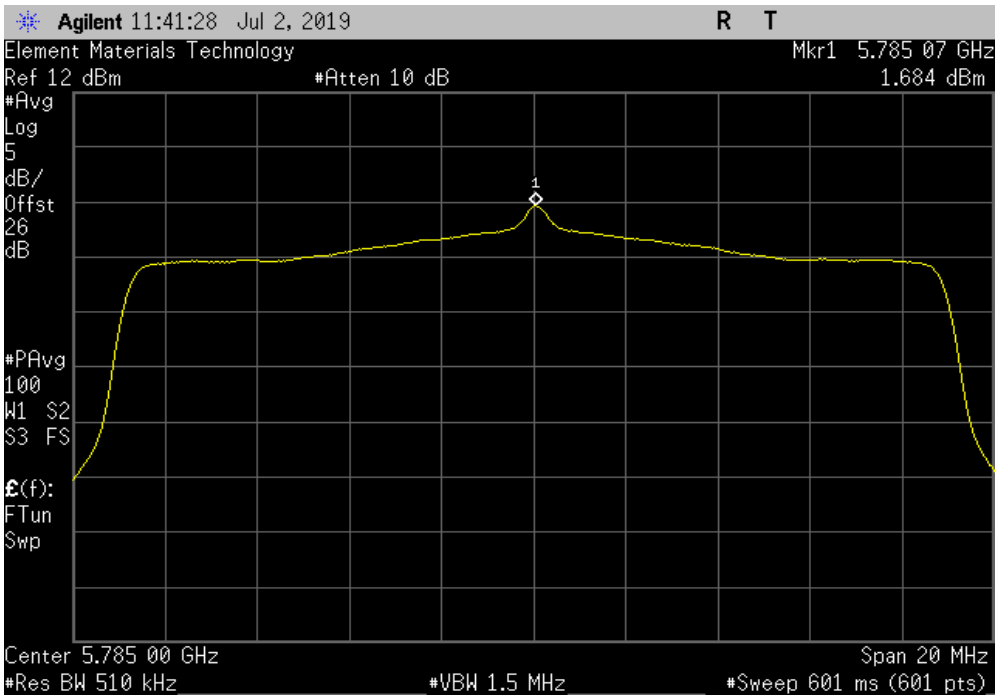


MAXIMUM POWER SPECTRAL DENSITY

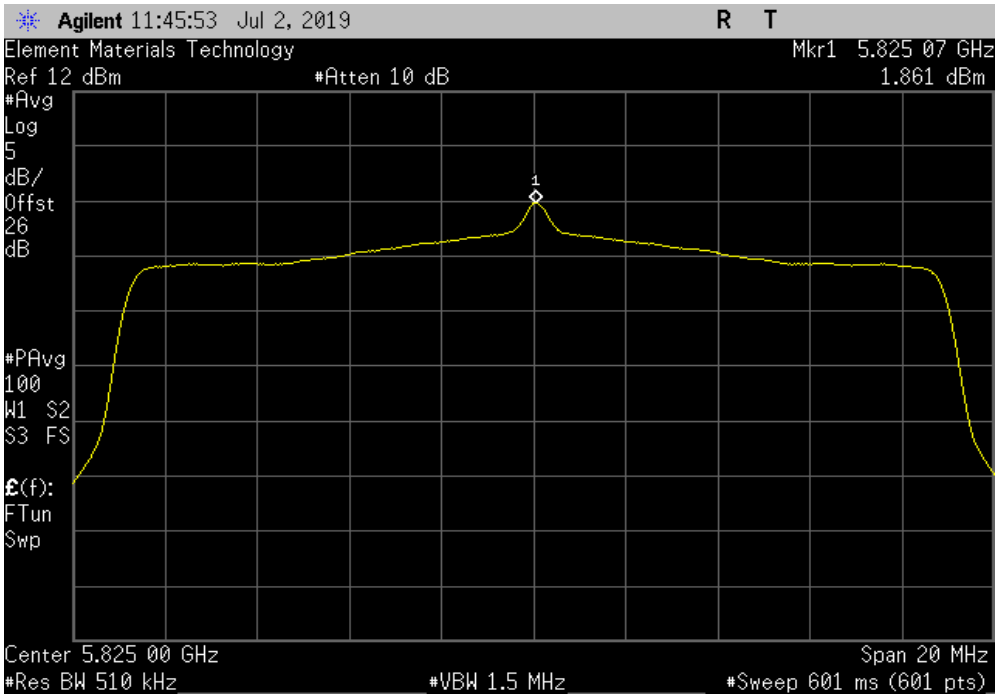
element

TbtTx 2018.09.13 XMit 2019.05.15

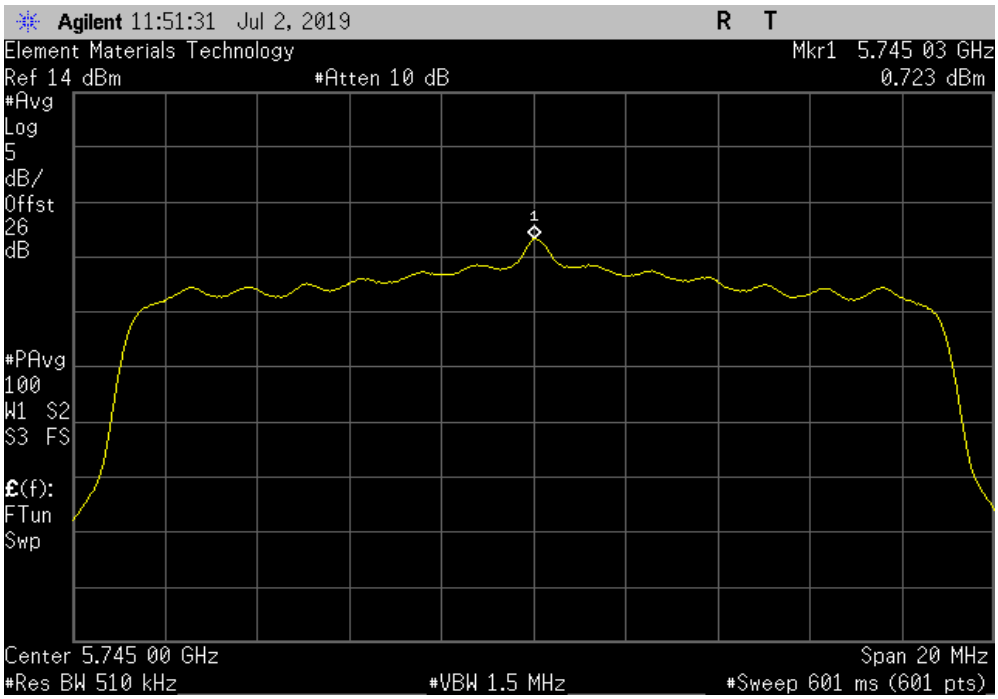
20 MHz, 802.11(n) MCS0, Ch 157, Mid Channel 5785 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	1.684	0.3		2	30	Pass



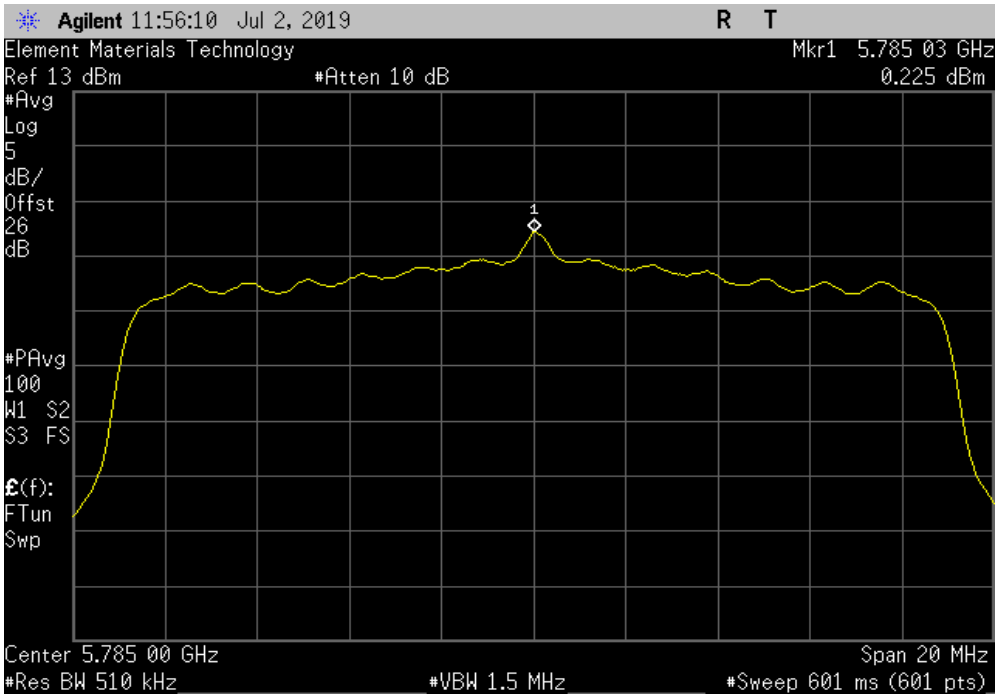
20 MHz, 802.11(n) MCS0, Ch 165, High Channel 5825 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	1.861	0.3		2.2	30	Pass



20 MHz, 802.11(n) MCS7, Ch 149, Low Channel 5745 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.723	2		2.8	30	Pass

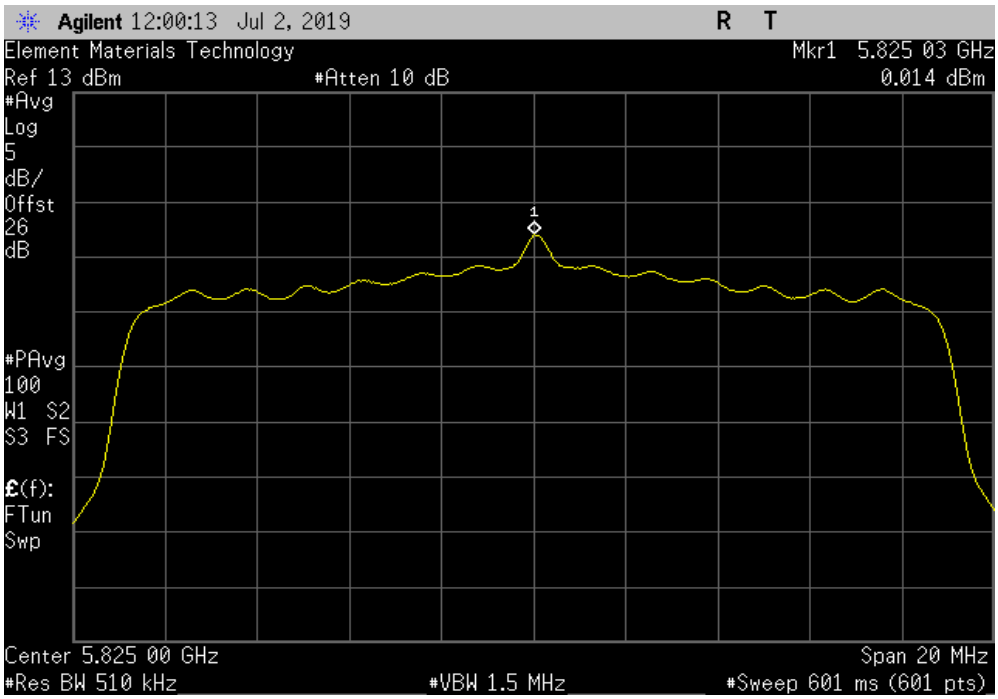


20 MHz, 802.11(n) MCS7, Ch 157, Mid Channel 5785 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.225	2		2.3	30	Pass

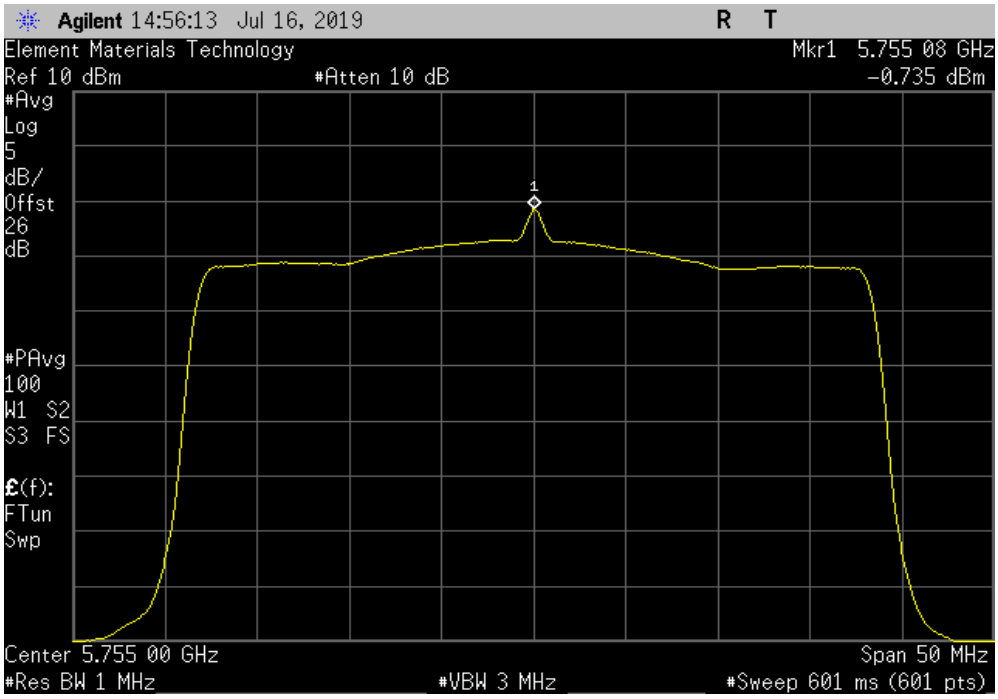


MAXIMUM POWER SPECTRAL DENSITY

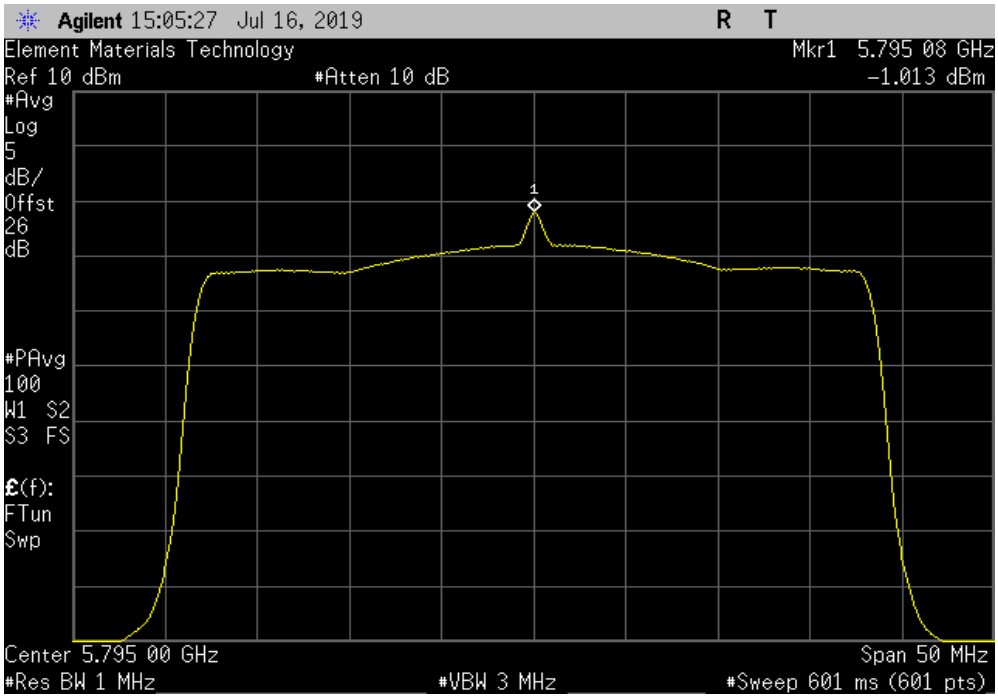
20 MHz, 802.11(n) MCS7, Ch 165, High Channel 5825 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	0.014	2		2.1	30	Pass



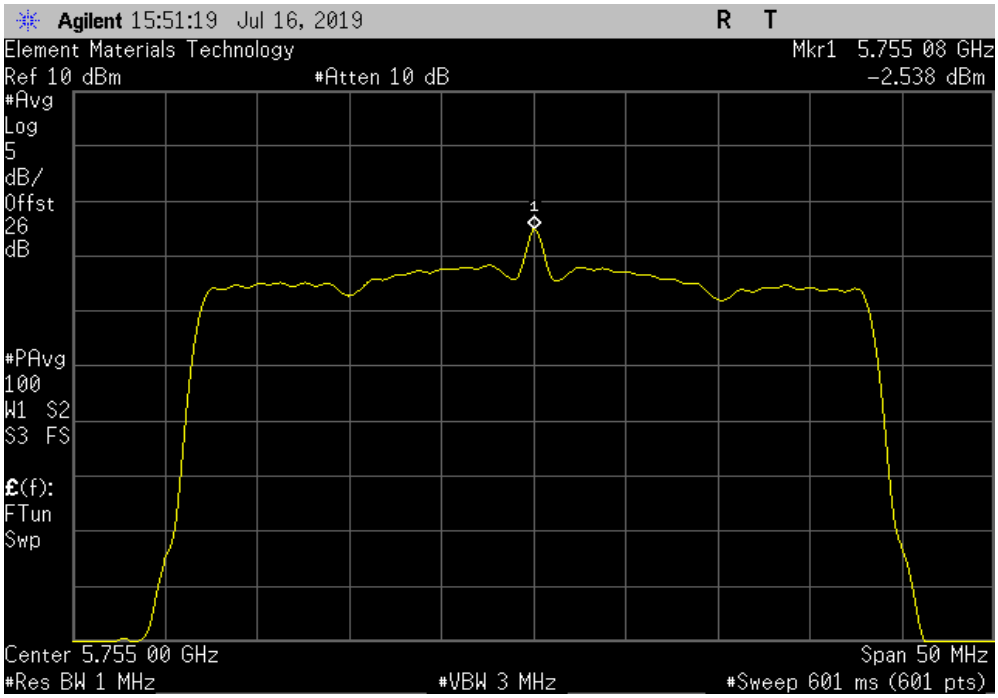
40 MHz, 802.11(n) MCS0, Ch 149/153, Low Channel 5755 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-0.735	0.6		-0.1	11	Pass



40 MHz, 802.11(n) MCS0, Ch 157/161, High Channel 5795 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-1.013	0.6		-0.4	11	Pass



40 MHz, 802.11(n) MCS7, Ch 149/153, Low Channel 5755 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.538	2.9		0.4	11	Pass



MAXIMUM POWER SPECTRAL DENSITY

TbtTx 2018.09.13 XMit 2019.05.15

40 MHz, 802.11(n) MCS7, Ch 157/161, High Channel 5795 MHz						
	Power (dBm/Ref BW)	Duty Cycle Factor (dB)		Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results
	-2.422	2.9		0.5	11	Pass