

EMISSION BANDWIDTH - 5.8 GHz BAND

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	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

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 C63.10:2013, Clause 6.9.3, the spectrum analyzer settings were as follows:

- RBW = 100 kHz
- VBW = $\geq 3 \times$ RBW
- Detector = Peak
- Trace mode = max hold

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

EMISSION BANDWIDTH - 5.8 GHz BAND



TSTx 2021.10.29.2 XMR 2022.02.07.0

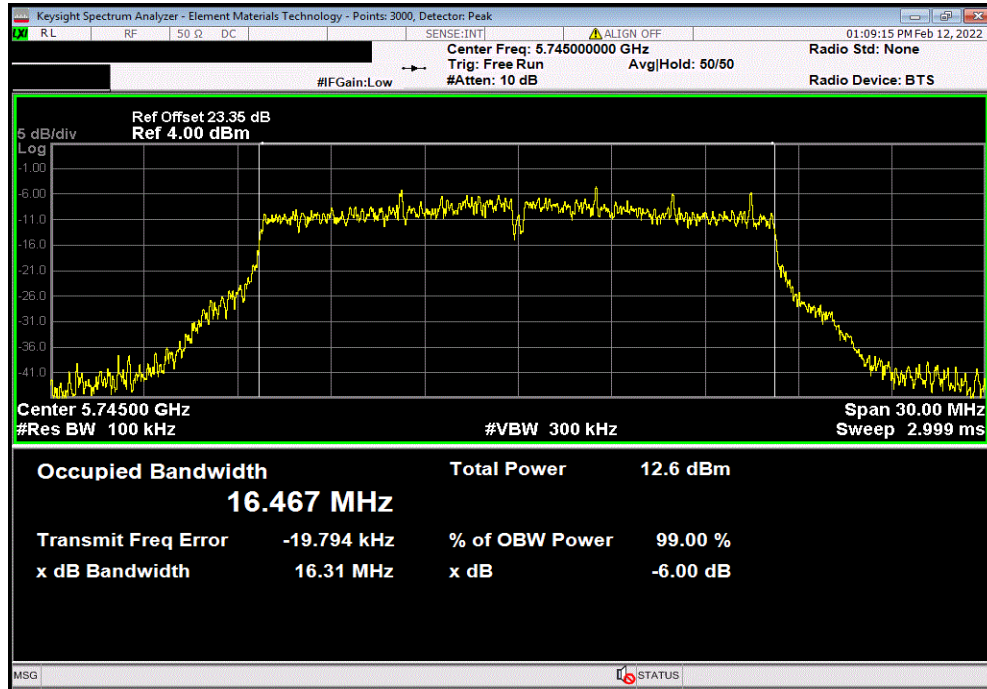
EUT: 43.0536.00		Work Order: A-DE0170	
Serial Number: SN001 00001		Date: 19-Feb-22	
Customer: A-dec, Inc.		Temperature: 20.8 °C	
Attendees: None		Humidity: 27.2% RH	
Project: None		Barometric Pres.: 1031 mbar	
Tested by: Jeff Alcoke	Power: 3.3 VDC via 110VAC/60Hz	Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2022		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, and measurement cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature	
		Value	Limit (>) Result
5725 - 5785 MHz Band			
802.11(a) No HT			
Low Channel, Ch 149 - 5745 MHz			
	6 Mbps	16.305 MHz	500 kHz Pass
	36 Mbps	16.276 MHz	500 kHz Pass
	54 Mbps	16.251 MHz	500 kHz Pass
Mid Channel, Ch 157 - 5785 MHz			
	6 Mbps	16.31 MHz	500 kHz Pass
	36 Mbps	16.416 MHz	500 kHz Pass
	54 Mbps	16.262 MHz	500 kHz Pass
High Channel, Ch 165 - 5825 MHz			
	6 Mbps	16.304 MHz	500 kHz Pass
	36 Mbps	16.307 MHz	500 kHz Pass
	54 Mbps	16.246 MHz	500 kHz Pass
802.11(n/ac) VHT20			
Low Channel, Ch 149 - 5745 MHz			
	MCS0	16.926 MHz	500 kHz Pass
	MCS7	17.267 MHz	500 kHz Pass
	MCS8 (256-QAM)	17.59 MHz	500 kHz Pass
Mid Channel, Ch 157 - 5785 MHz			
	MCS0	17.289 MHz	500 kHz Pass
	MCS7	17.293 MHz	500 kHz Pass
	MCS8 (256-QAM)	17.503 MHz	500 kHz Pass
High Channel, Ch 165 - 5825 MHz			
	MCS0	16.909 MHz	500 kHz Pass
	MCS7	16.949 MHz	500 kHz Pass
	MCS8 (256-QAM)	17.618 MHz	500 kHz Pass
802.11(n/ac) VHT40			
Low Channel, Ch 149/153 - 5755 MHz			
	MCS0	36.039 MHz	500 kHz Pass
	MCS7	36.048 MHz	500 kHz Pass
	MCS9 (256-QAM)	36.272 MHz	500 kHz Pass
High Channel, Ch 157/161 - 5795 MHz			
	MCS0	35.947 MHz	500 kHz Pass
	MCS7	35.705 MHz	500 kHz Pass
	MCS9 (256-QAM)	36.221 MHz	500 kHz Pass
802.11(n/ac) VHT80			
Low Channel, Ch 149-161 - 5775 MHz			
	MCS0	75.213 MHz	500 kHz Pass
	MCS9 (256-QAM)	75.227 MHz	500 kHz Pass

EMISSION BANDWIDTH - 5.8 GHz BAND

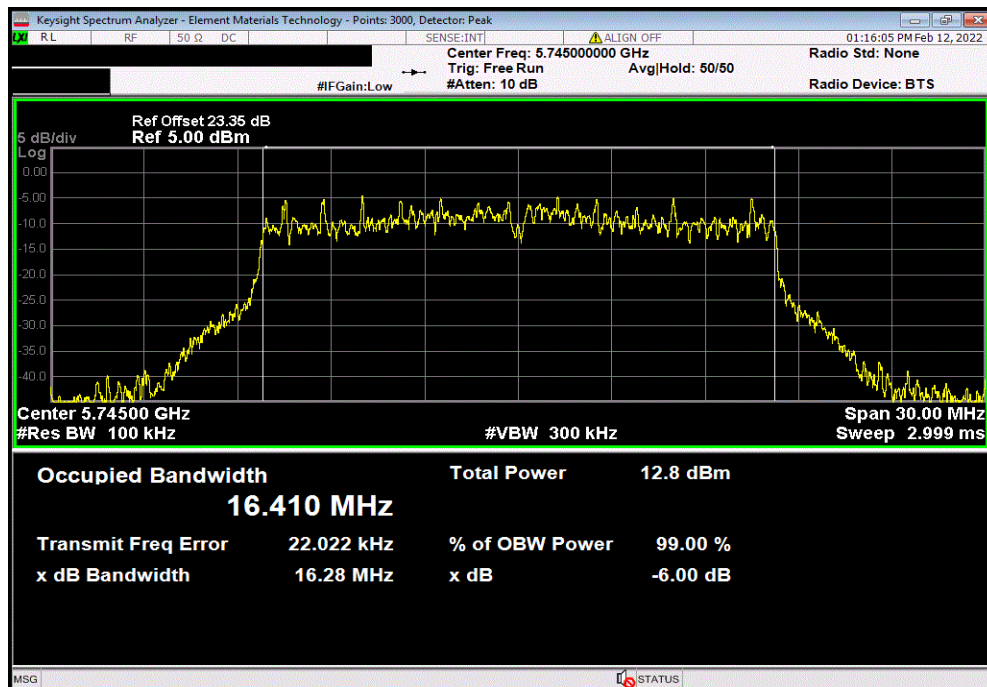


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5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 6 Mbps						
				Value	Limit	Result
				16.305 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 36 Mbps						
				Value	Limit	Result
				16.276 MHz	500 kHz	Pass

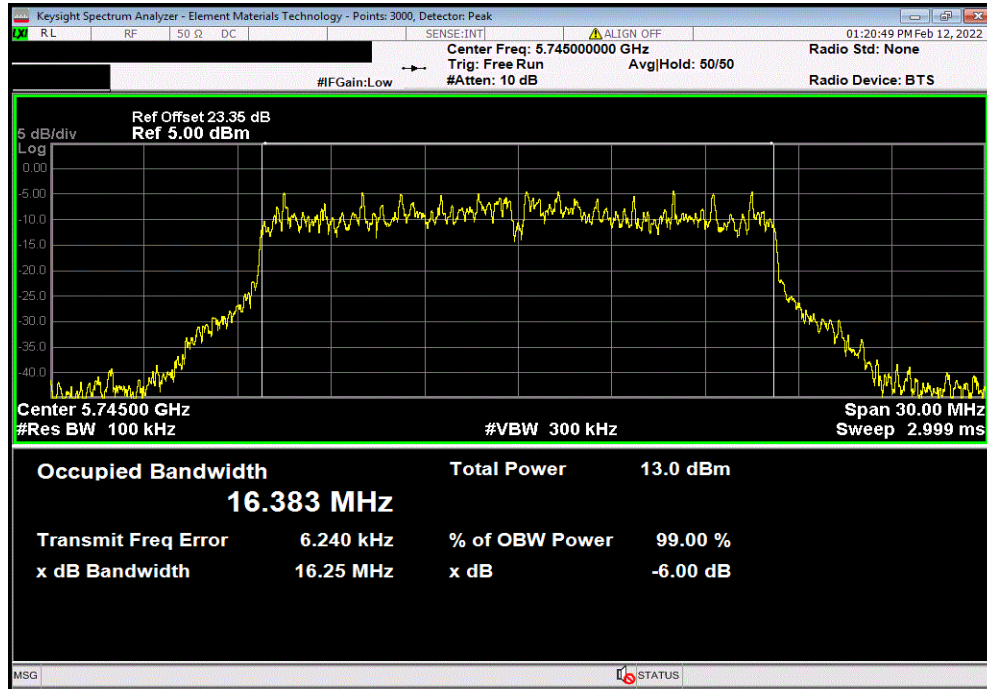


EMISSION BANDWIDTH - 5.8 GHz BAND

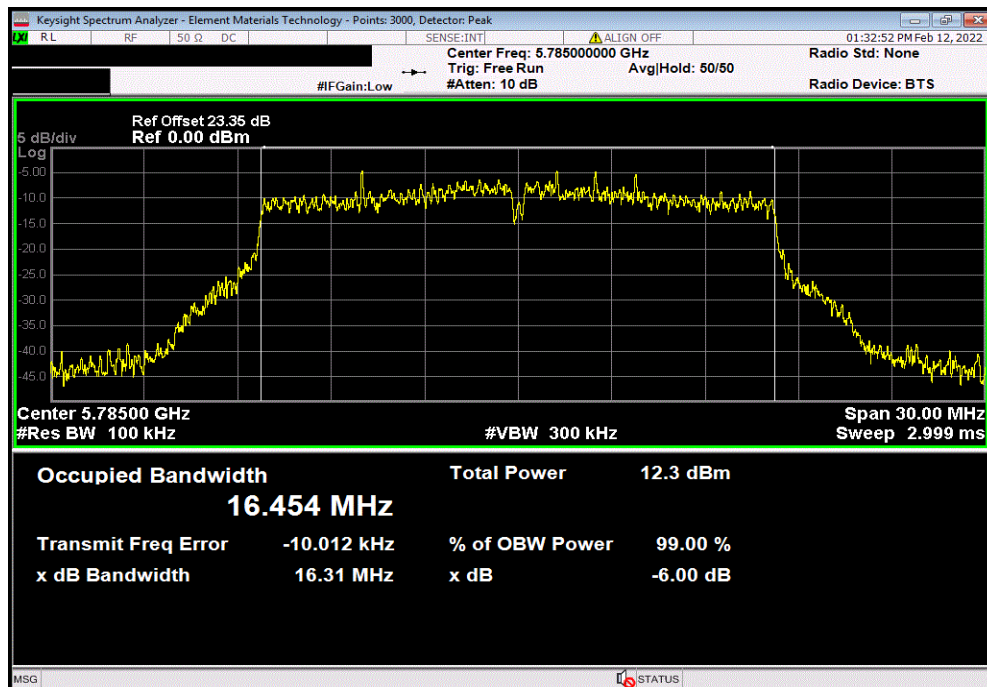


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5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 54 Mbps						
Value				Limit	Result	
				(>)		
			16.251 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 6 Mbps						
Value				Limit	Result	
				(>)		
			16.31 MHz	500 kHz	Pass	

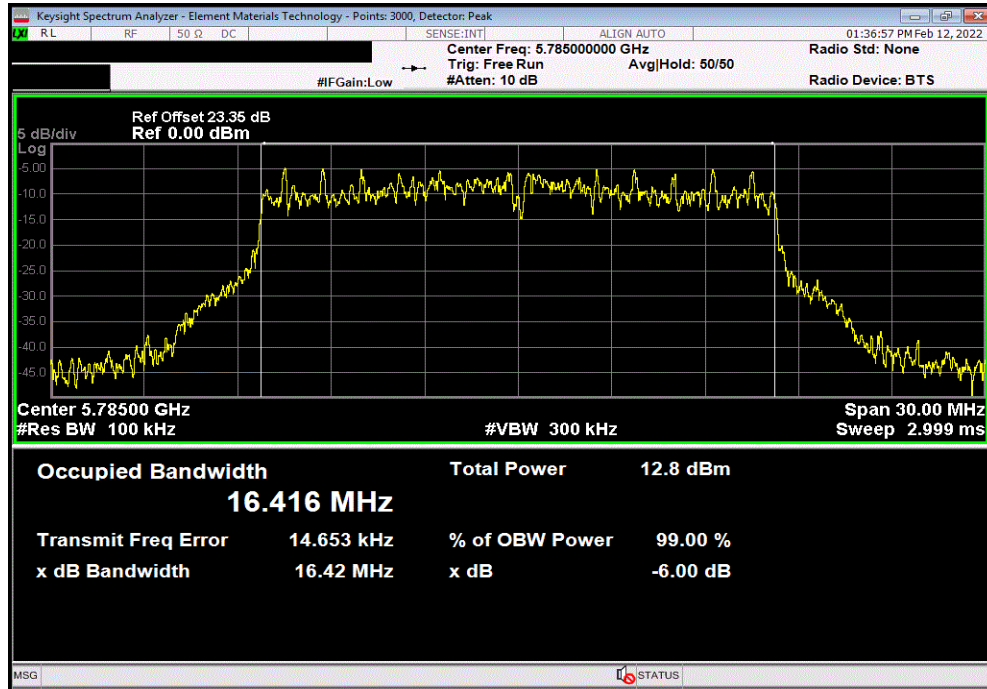


EMISSION BANDWIDTH - 5.8 GHz BAND

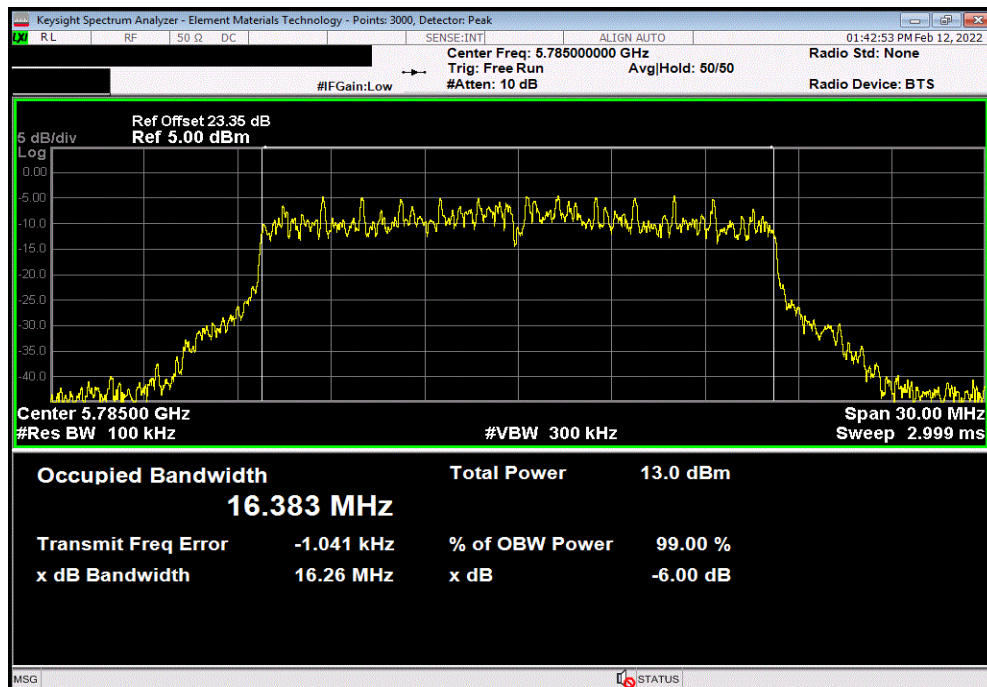


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5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 36 Mbps						
				Limit		
				Value	(>)	Result
				16.416 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 54 Mbps						
				Limit		
				Value	(>)	Result
				16.262 MHz	500 kHz	Pass

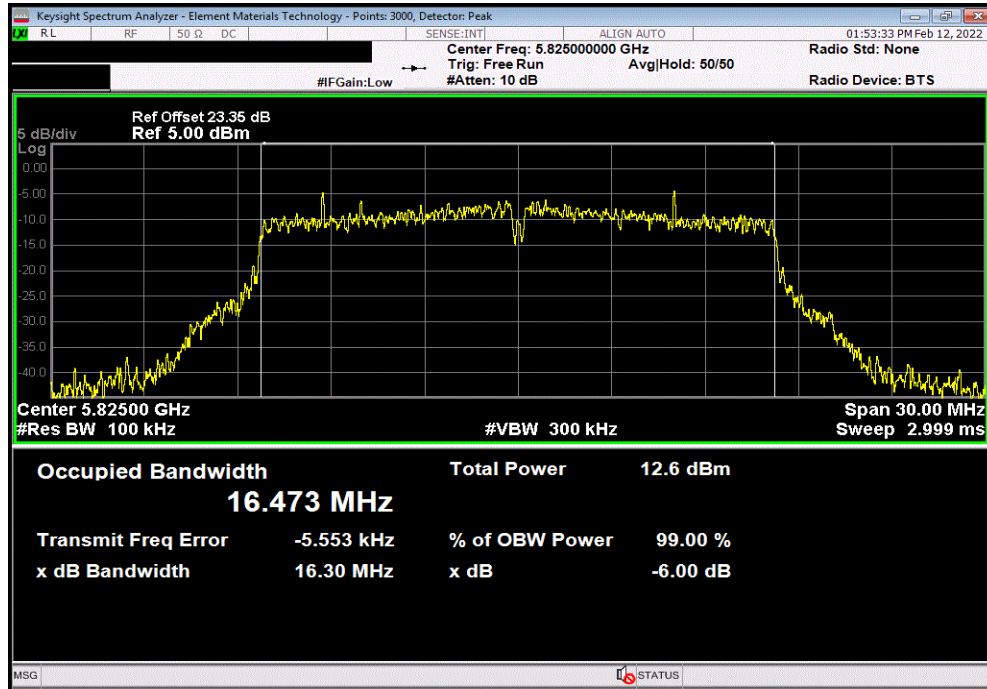


EMISSION BANDWIDTH - 5.8 GHz BAND

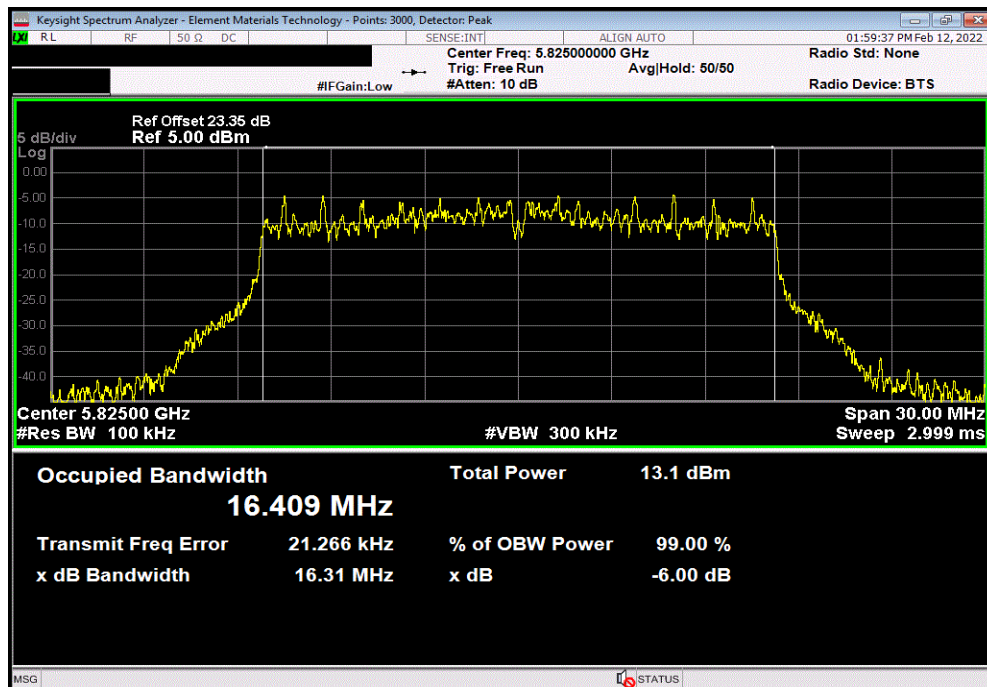


TbTtx 2021.10.29.2 XMI 2022.02.07.0

5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 6 Mbps						
				Value	Limit	Result
				(>)		
				16.304 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 36 Mbps						
				Value	Limit	Result
				(>)		
				16.307 MHz	500 kHz	Pass

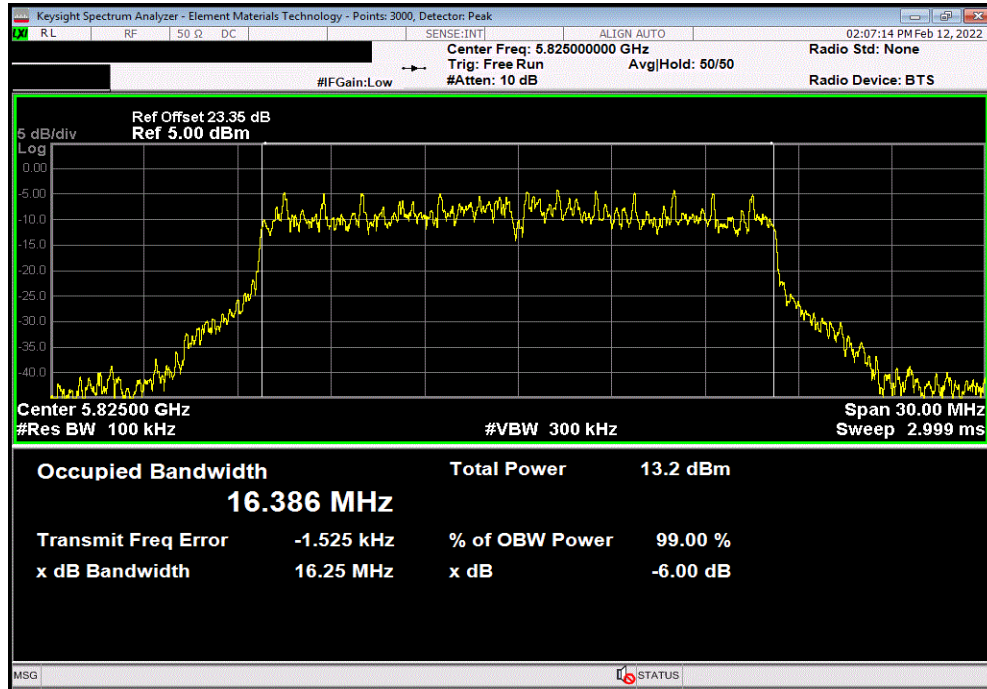


EMISSION BANDWIDTH - 5.8 GHz BAND

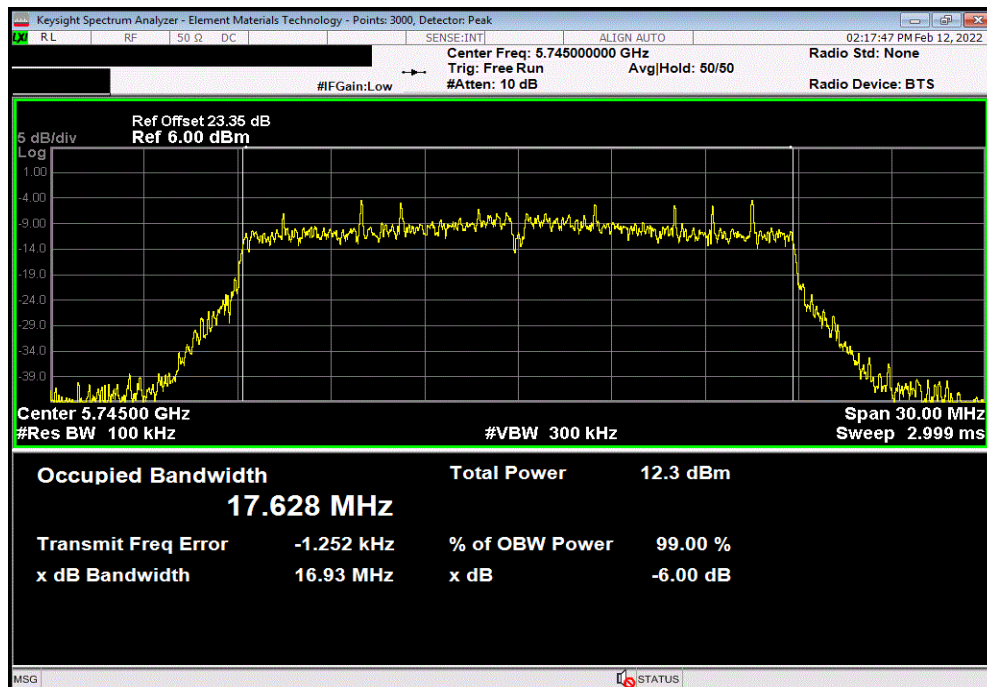


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5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 54 Mbps						
				Value	Limit	Result
				16.246 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS0						
				Value	Limit	Result
				16.926 MHz	500 kHz	Pass

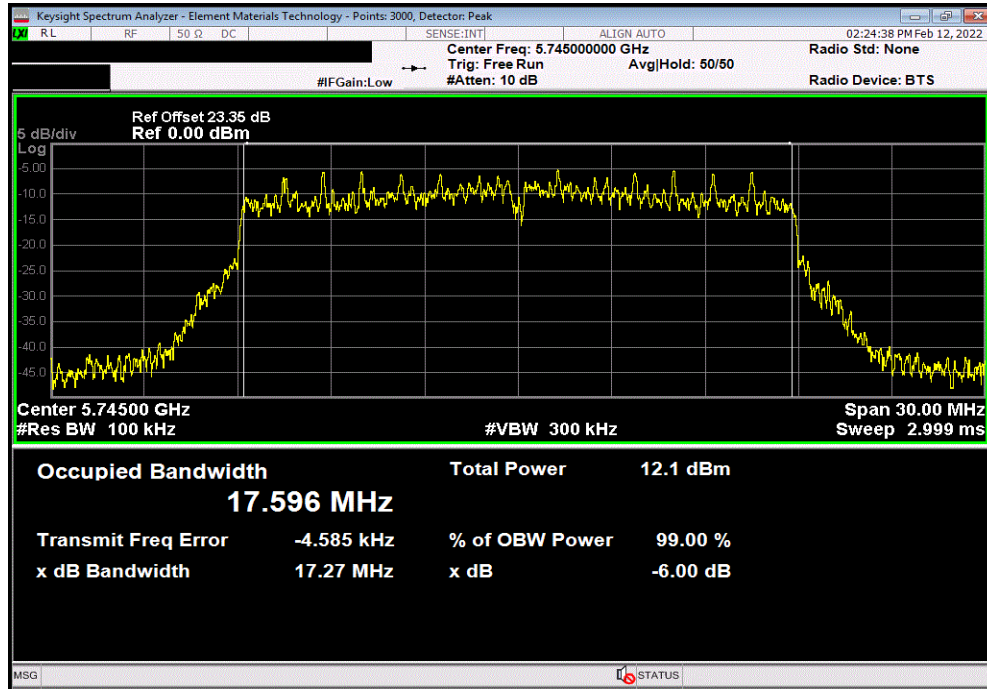


EMISSION BANDWIDTH - 5.8 GHz BAND

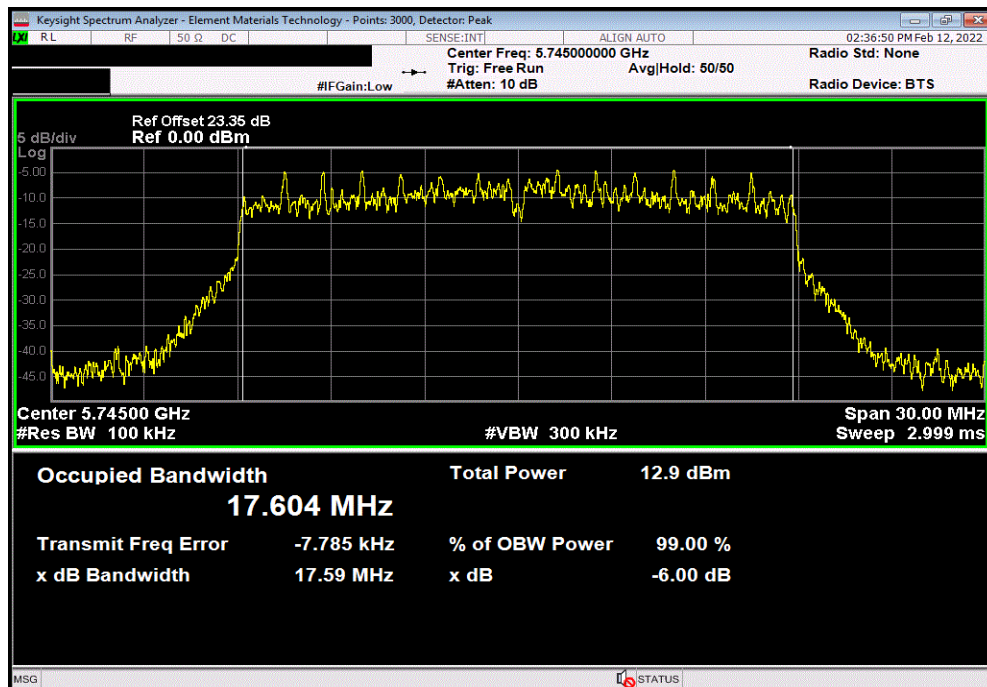


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5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS7						
				Value	Limit	Result
					(>)	
				17.267 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS8 (256-QAM)						
				Value	Limit	Result
					(>)	
				17.59 MHz	500 kHz	Pass

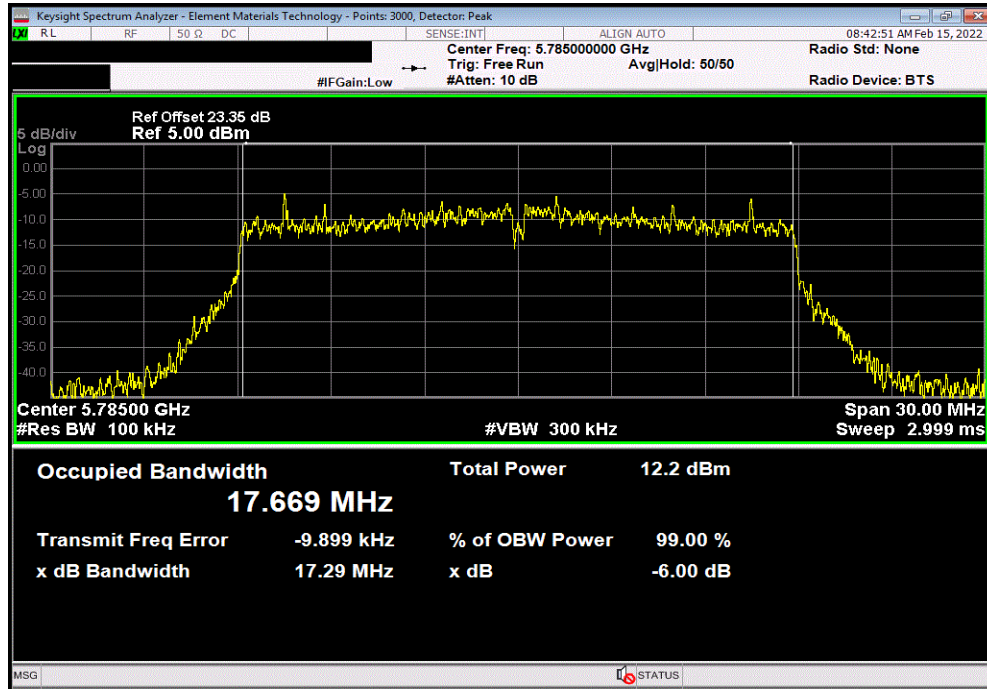


EMISSION BANDWIDTH - 5.8 GHz BAND

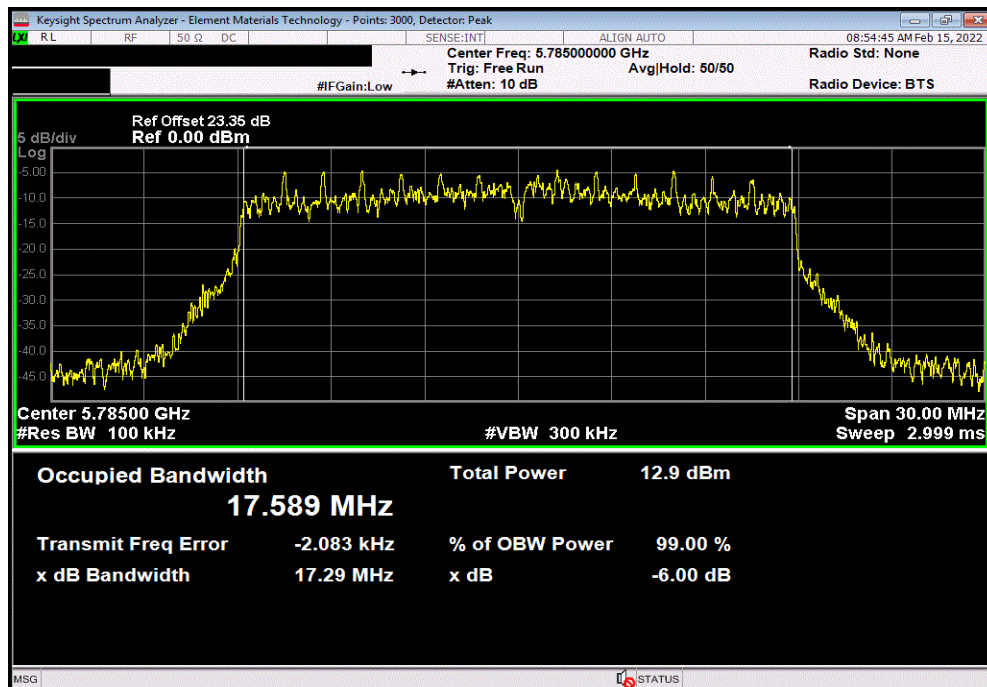


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5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS0						
Value				Limit	Result	
				(>)		
			17.289 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS7						
Value				Limit	Result	
				(>)		
			17.293 MHz	500 kHz	Pass	



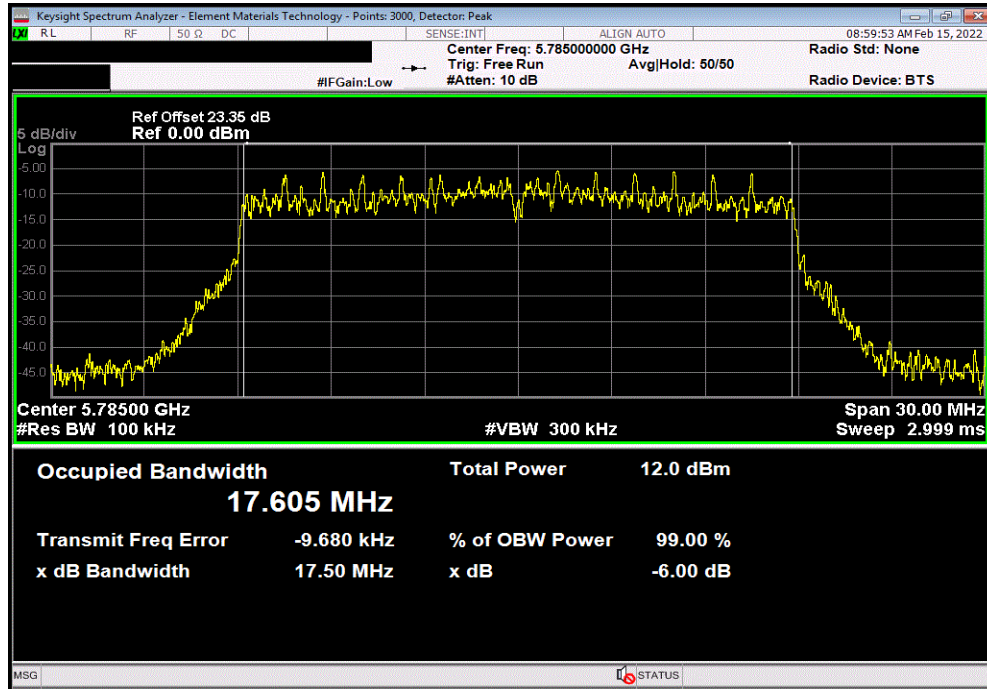
EMISSION BANDWIDTH - 5.8 GHz BAND



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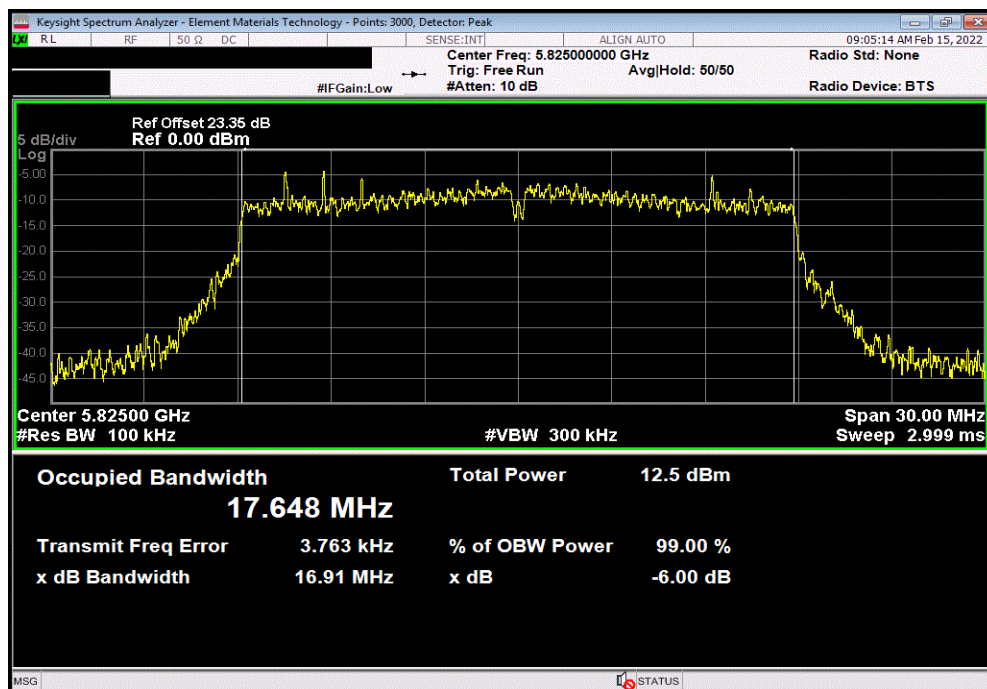
5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS8 (256-QAM)

			Limit		
			Value	(>)	Result
			17.503 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS0

			Limit		
			Value	(>)	Result
			16.909 MHz	500 kHz	Pass

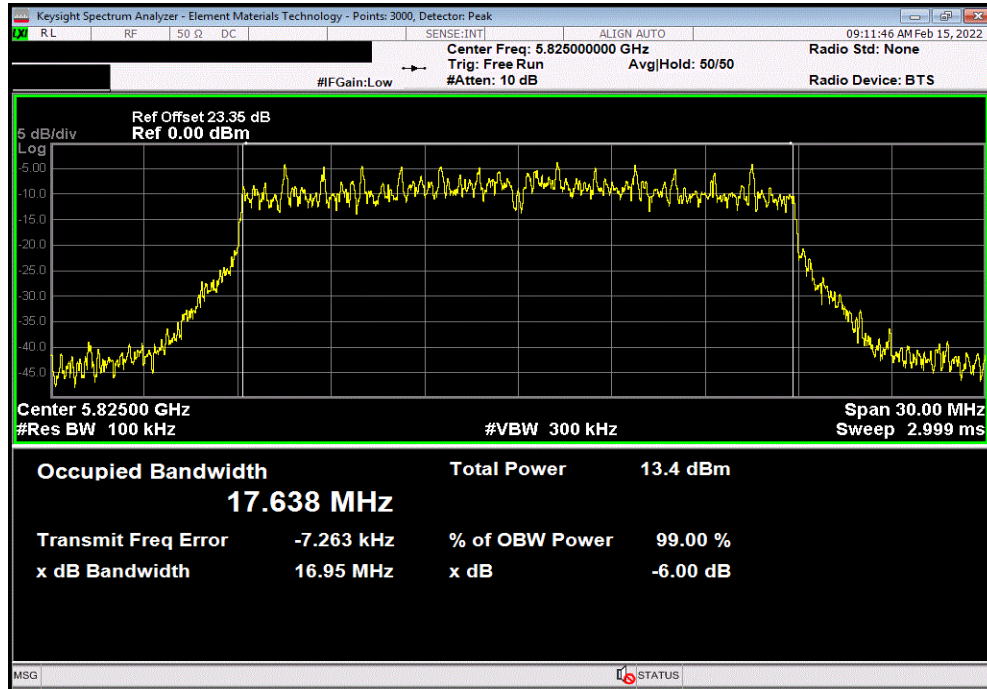


EMISSION BANDWIDTH - 5.8 GHz BAND

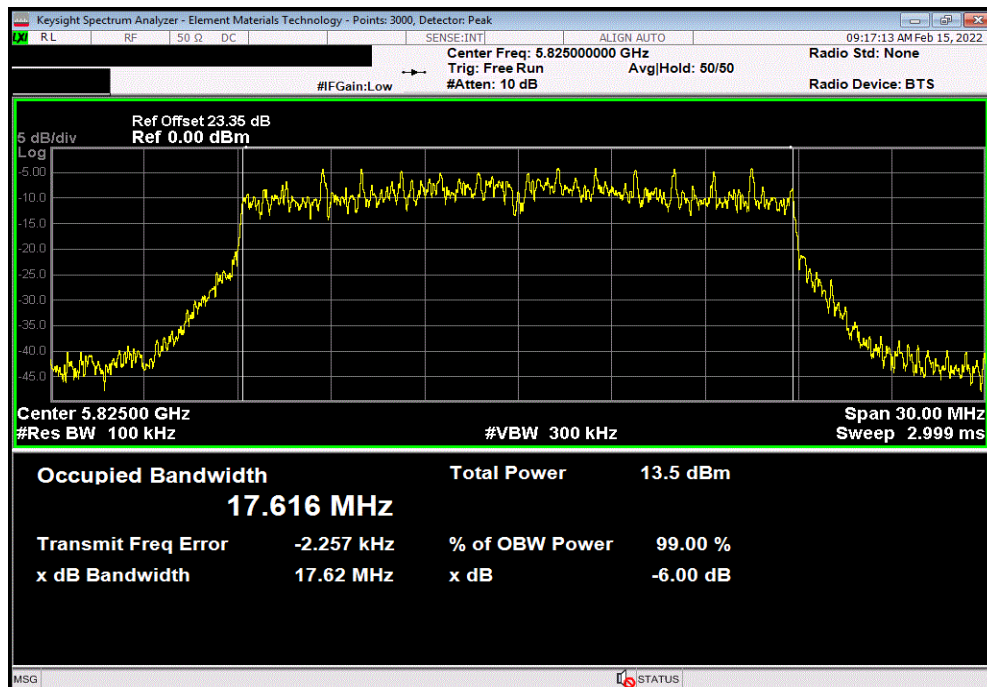


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5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS7						
				Limit		
				Value	(>)	Result
				16.949 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS8 (256-QAM)						
				Limit		
				Value	(>)	Result
				17.618 MHz	500 kHz	Pass

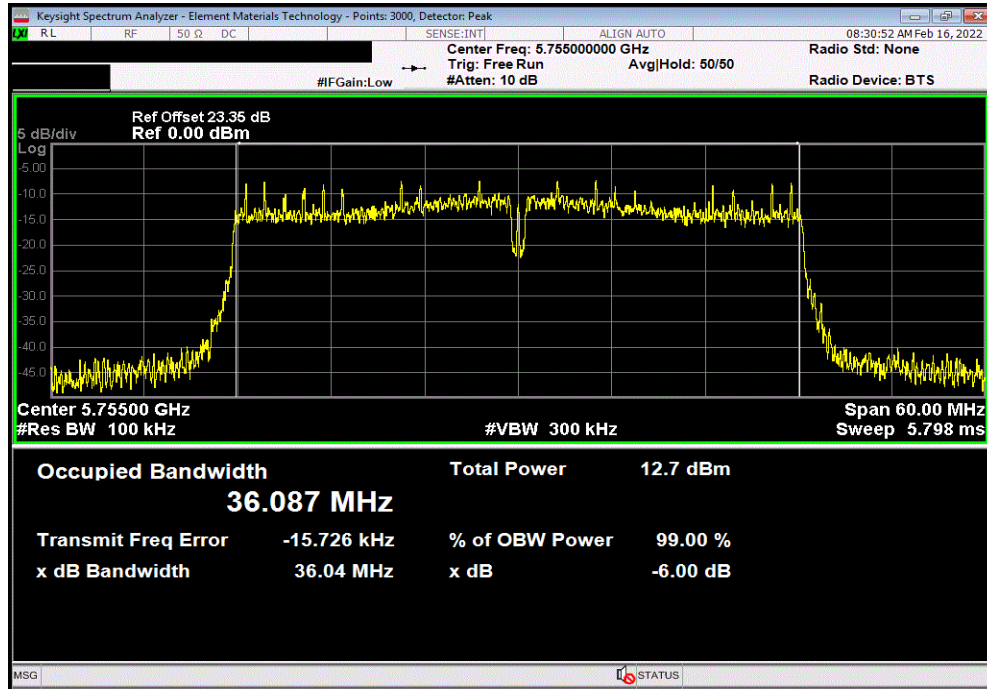


EMISSION BANDWIDTH - 5.8 GHz BAND

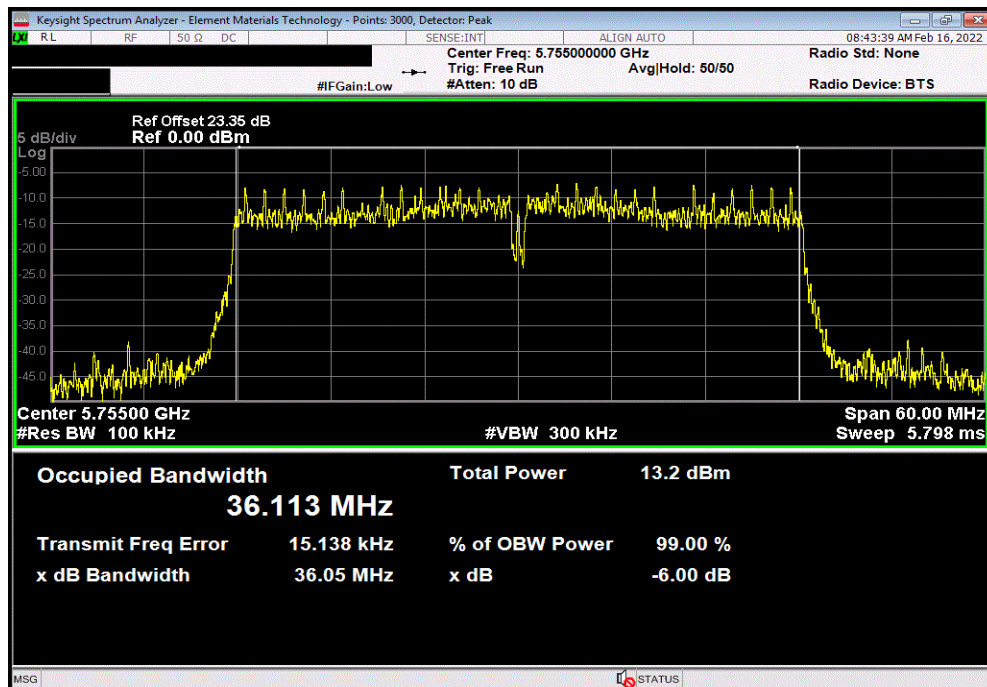


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5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS0						
				Value	Limit	Result
				(>)		
				36.039 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS7						
				Value	Limit	Result
				(>)		
				36.048 MHz	500 kHz	Pass



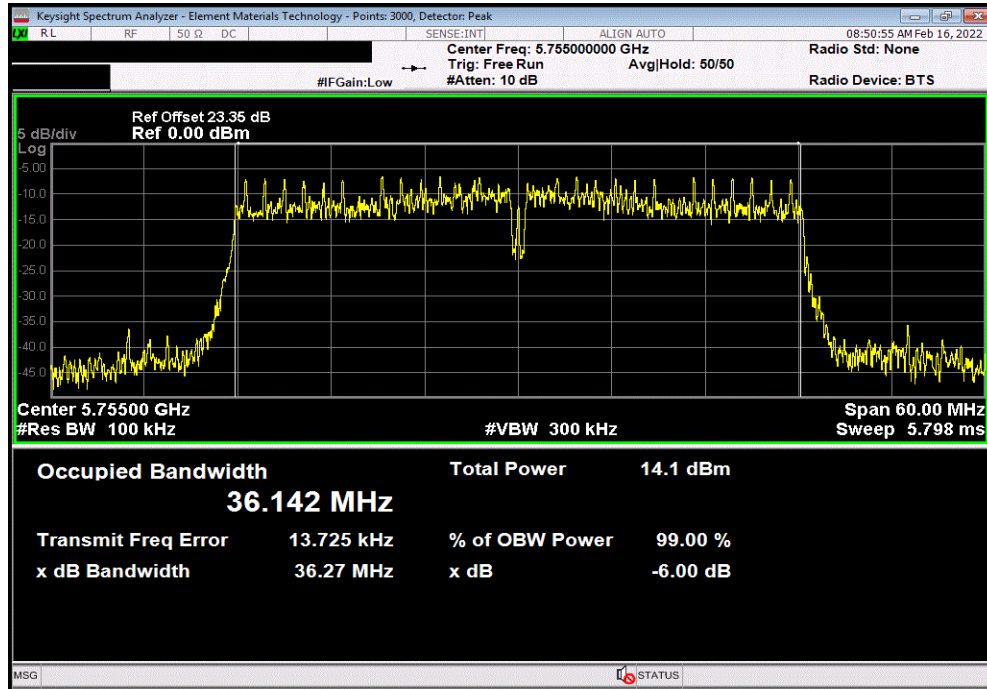
EMISSION BANDWIDTH - 5.8 GHz BAND



TbTx 2021.10.29.2 XMt 2022.02.07.0

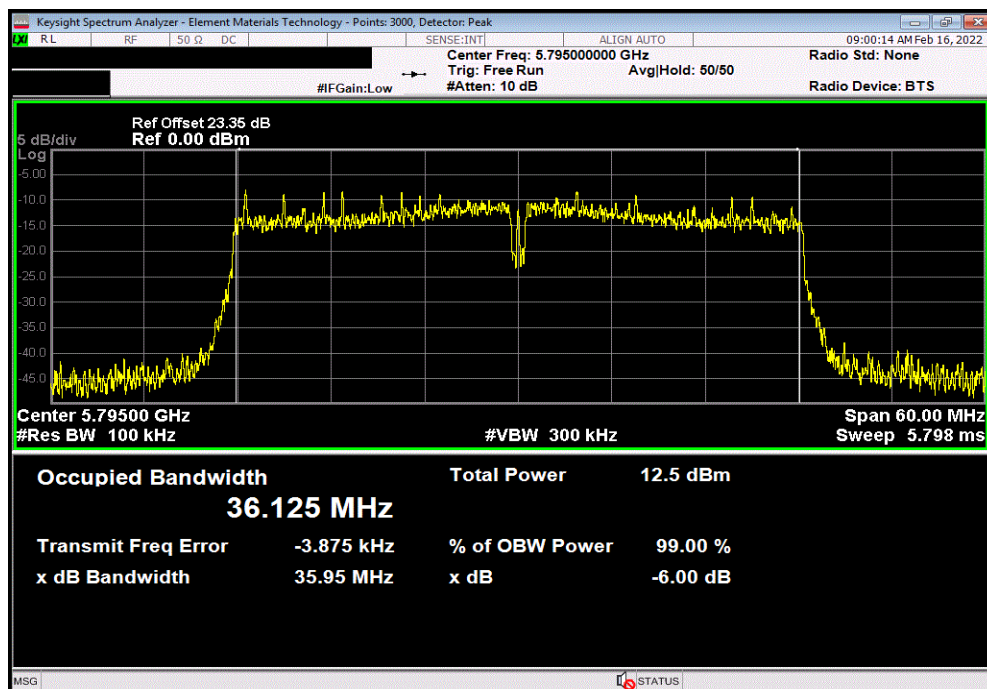
5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS9 (256-QAM)

			Limit		
			Value	(>)	Result
			36.272 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS9

			Limit		
			Value	(>)	Result
			35.947 MHz	500 kHz	Pass

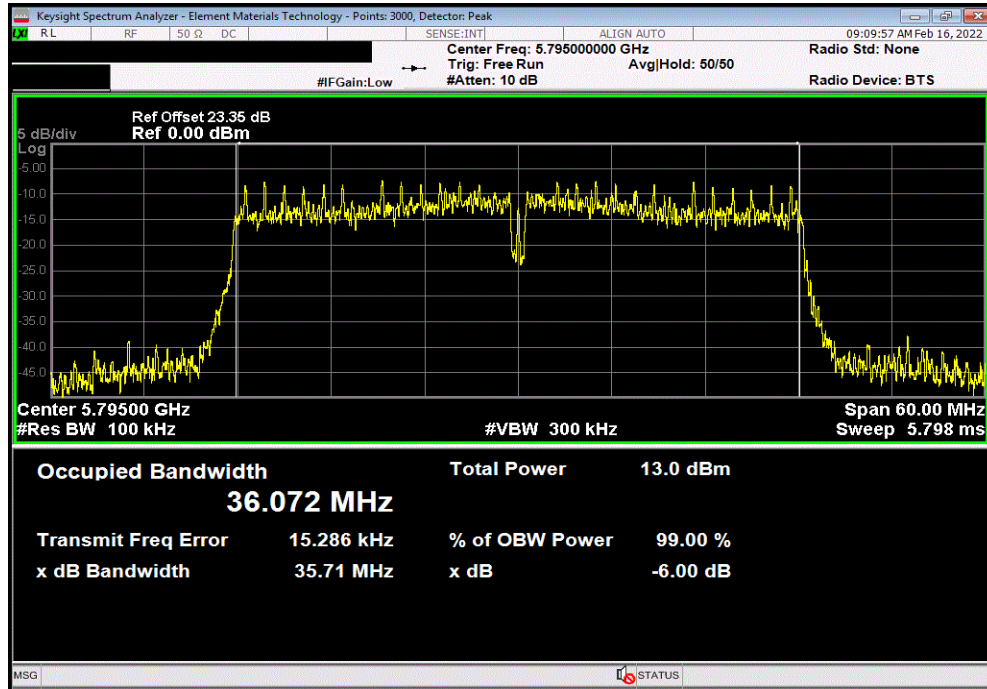


EMISSION BANDWIDTH - 5.8 GHz BAND

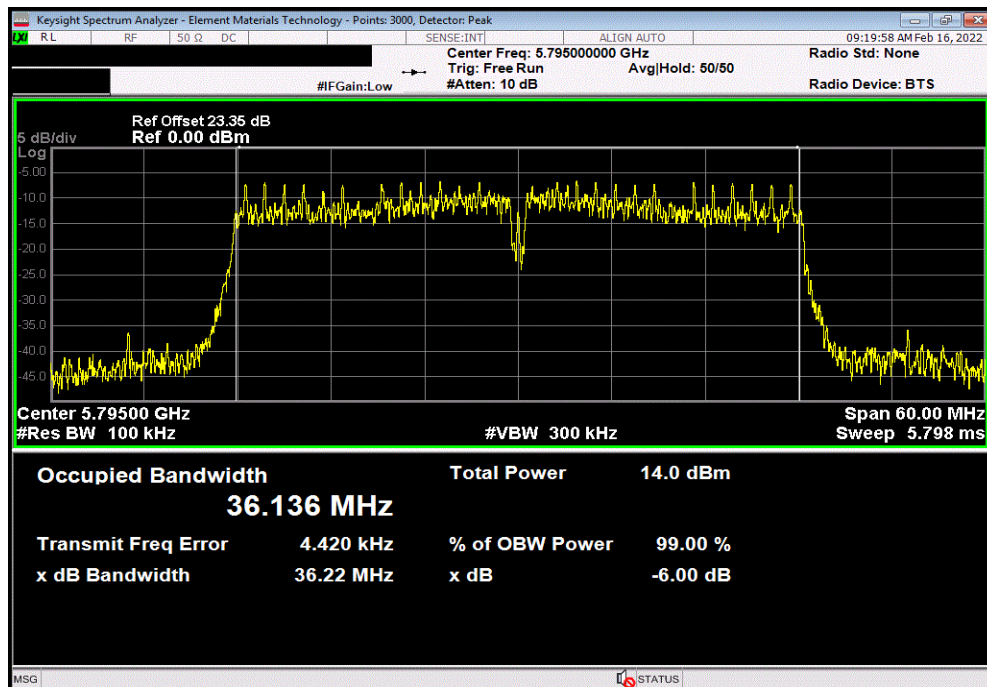


TbTx 2021.10.29.2 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS7						
				Limit		
				Value	(>)	Result
				35.705 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS9 (256-QAM)						
				Limit		
				Value	(>)	Result
				36.221 MHz	500 kHz	Pass

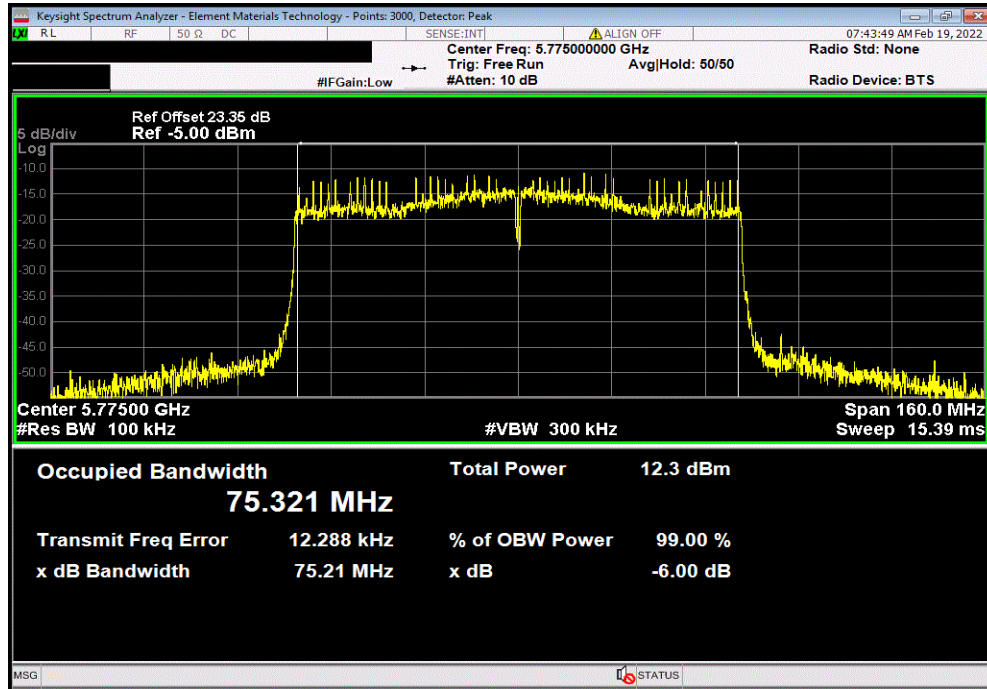


EMISSION BANDWIDTH - 5.8 GHz BAND

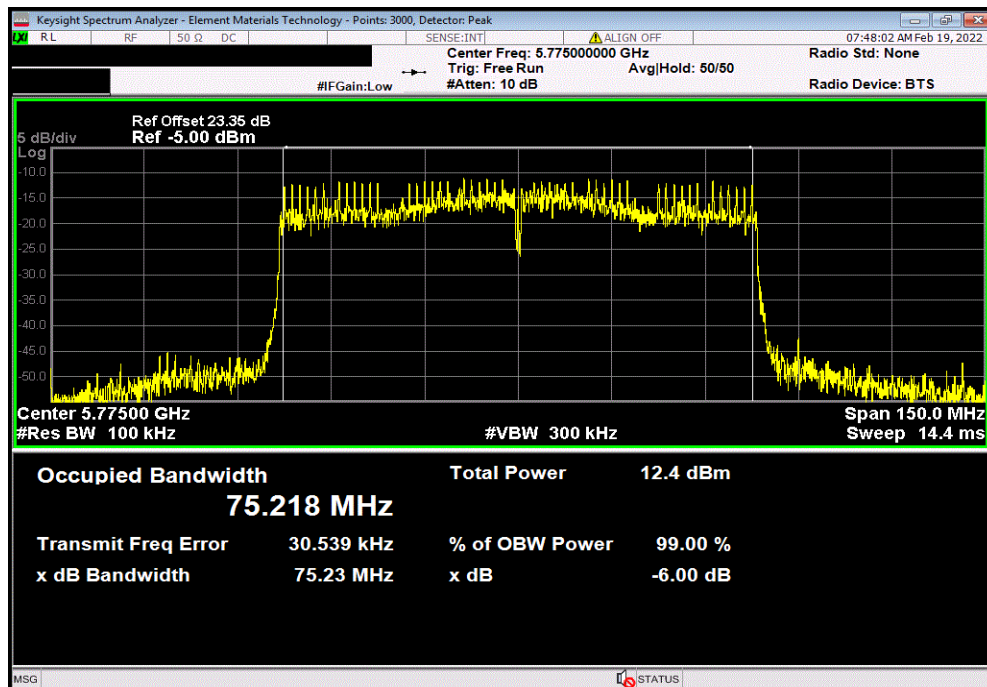


TbTtx 2021.10.29.2 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS0						
				Value	Limit	Result
				(>)		
				75.213 MHz	500 kHz	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS9 (256-QAM)						
				Value	Limit	Result
				(>)		
				75.227 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH - 5.8 GHz BAND



XMIT 2022.02.07.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

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 FCC KDB 789033 D02 General UNII Test Procedures v02r01, Clause D the spectrum analyzer settings were as follows:

- Span = 1.5 – 5 times the occupied bandwidth (B)
- RBW = 1% - 5% of the occupied bandwidth (B).
- VBW = $> 3 \times$ RBW
- Detector = Sample
- Trace mode = max hold

The spectrum analyzer occupied bandwidth measurement function was then used to measure the 99% occupied 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.

OCCUPIED BANDWIDTH - 5.8 GHz BAND



TWtX 2021.03.19.1 XMR 2022.02.07.0

EUT: 43.0536.00		Work Order: A-DE0170	
Serial Number: SN001 00001		Date: 19-Feb-22	
Customer: A-dec, Inc.		Temperature: 20.7 °C	
Attendees: None		Humidity: 26.2% RH	
Project: None		Barometric Pres.: 1031 mbar	
Tested by: Jeff Alcoke	Power: 3.3 VDC via 110VAC/60Hz	Job Site: EV06	
TEST SPECIFICATIONS			
FCC 15.407:2022		Test Method: ANSI C63.10:2013	
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, and measurement cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature	
		Value	Limit
5725 - 5785 MHz Band			
802.11(a) No HT			
Low Channel, Ch 149 - 5745 MHz			
6 Mbps		16.513 MHz	N/A
36 Mbps		16.46 MHz	N/A
54 Mbps		16.464 MHz	N/A
Mid Channel, Ch 157 - 5785 MHz			
6 Mbps		16.497 MHz	N/A
36 Mbps		16.472 MHz	N/A
54 Mbps		16.445 MHz	N/A
High Channel, Ch 165 - 5825 MHz			
6 Mbps		16.492 MHz	N/A
36 Mbps		16.444 MHz	N/A
54 Mbps		16.454 MHz	N/A
802.11(n/ac) VHT20			
Low Channel, Ch 149 - 5745 MHz			
MCS0		17.676 MHz	N/A
MCS7		17.651 MHz	N/A
MCS8 (256-QAM)		17.64 MHz	N/A
Mid Channel, Ch 157 - 5785 MHz			
MCS0		17.69 MHz	N/A
MCS7		17.641 MHz	N/A
MCS8 (256-QAM)		17.644 MHz	N/A
High Channel, Ch 165 - 5825 MHz			
MCS0		17.693 MHz	N/A
MCS7		17.619 MHz	N/A
MCS8 (256-QAM)		17.66 MHz	N/A
802.11(n/ac) VHT40			
Low Channel, Ch 149/153 - 5755 MHz			
MCS0		36.383 MHz	N/A
MCS7		36.412 MHz	N/A
MCS9 (256-QAM)		36.415 MHz	N/A
High Channel, Ch 157/161 - 5795 MHz			
MCS0		36.421 MHz	N/A
MCS7		36.351 MHz	N/A
MCS9 (256-QAM)		36.407 MHz	N/A
802.11(n/ac) VHT80			
Low Channel, Ch 149-161 - 5775 MHz			
MCS0		75.606 MHz	N/A
MCS9 (256-QAM)		75.628 MHz	N/A

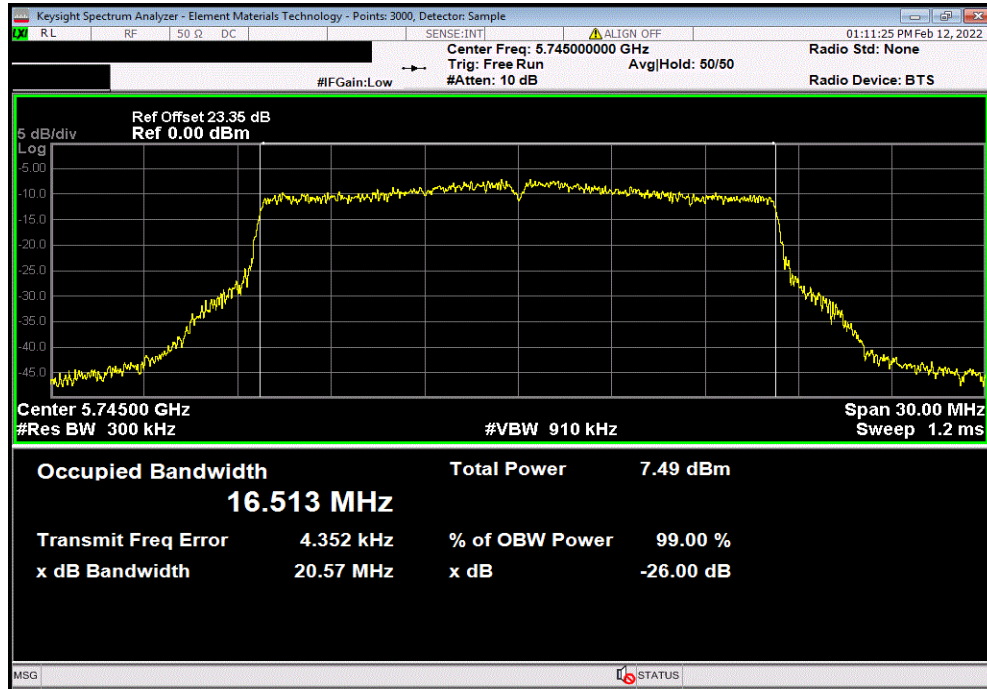
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

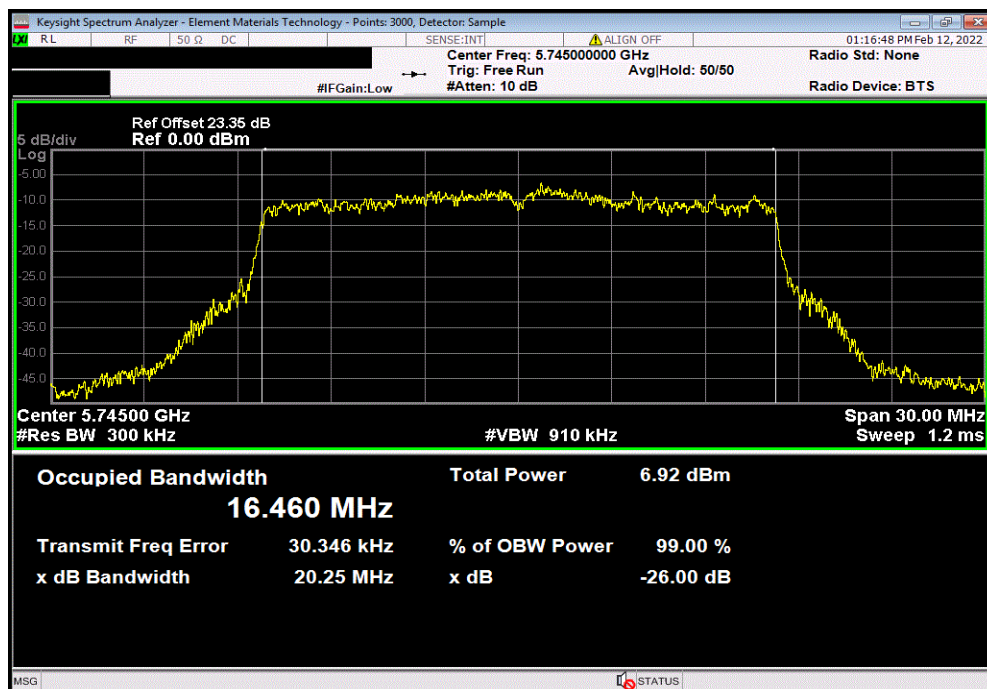
5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 6 Mbps

	Value	Limit	Result
	16.513 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 36 Mbps

	Value	Limit	Result
	16.46 MHz	N/A	N/A



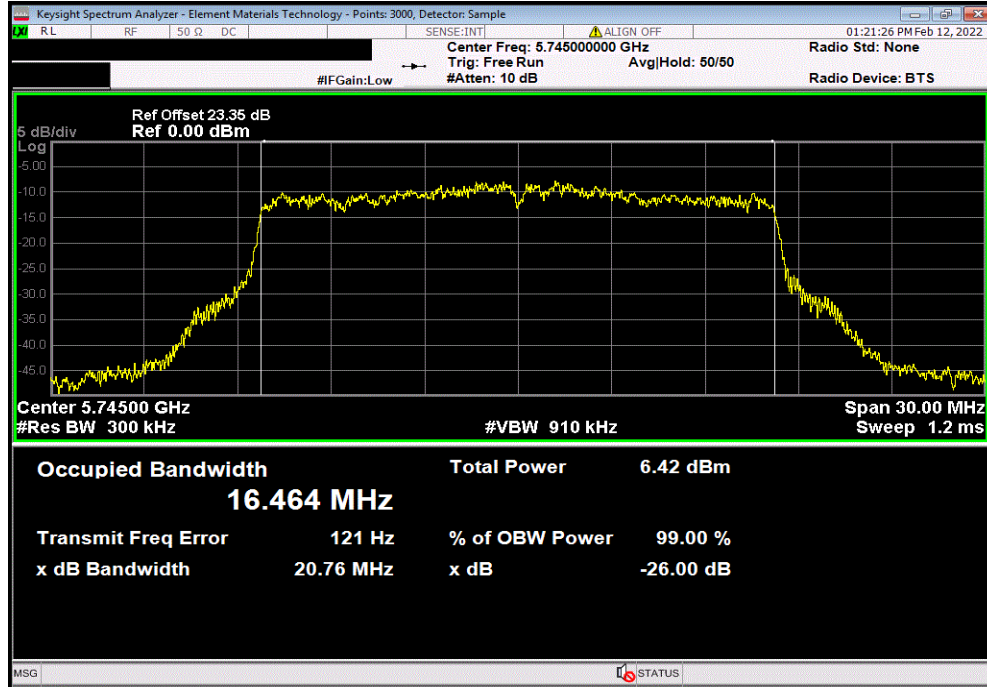
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

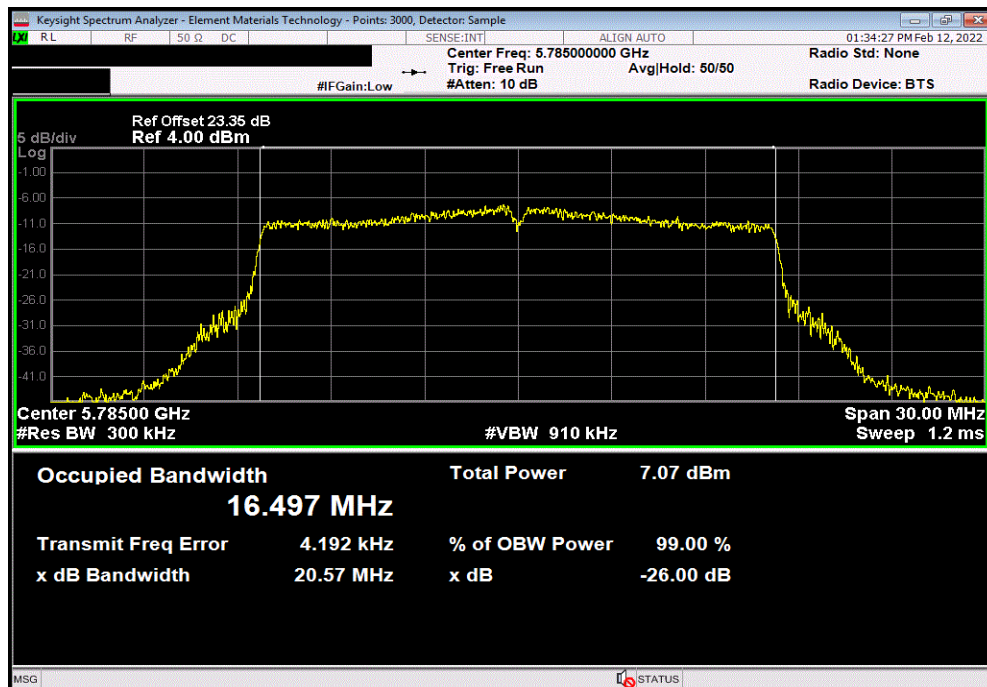
5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 54 Mbps

Value	Limit	Result
16.464 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 6 Mbps

Value	Limit	Result
16.497 MHz	N/A	N/A



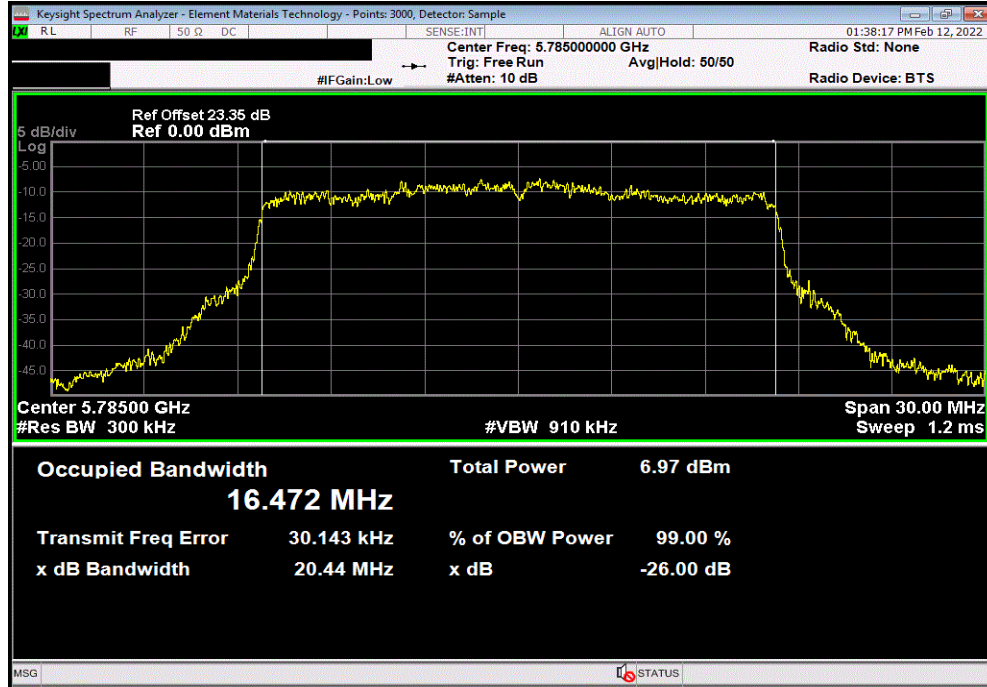
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XM8 2022.02.07.0

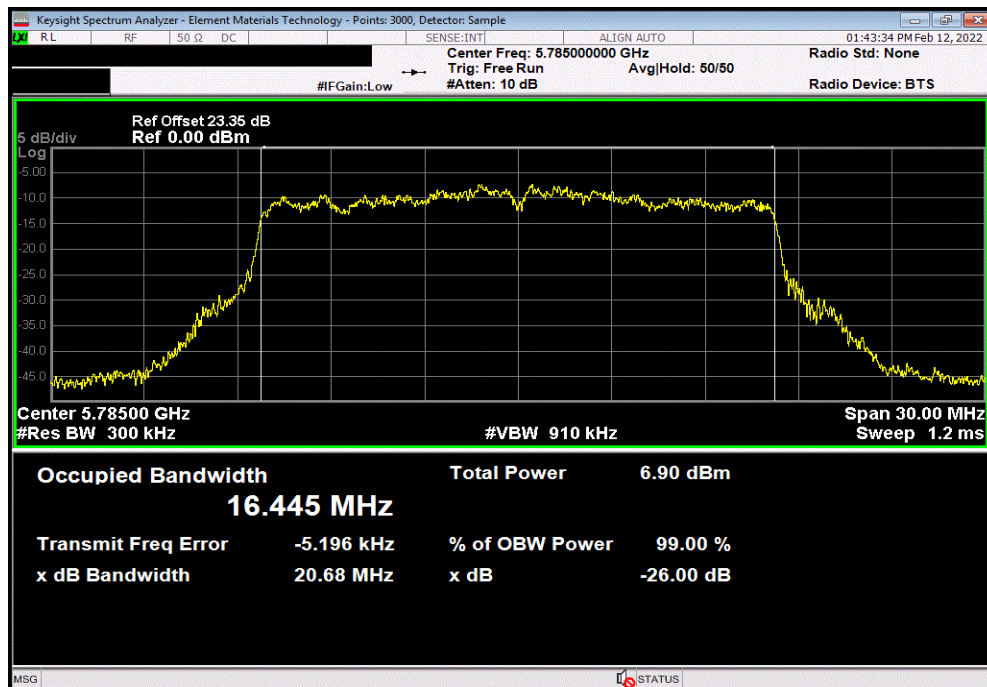
5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 36 Mbps

	Value	Limit	Result
	16.472 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 54 Mbps

	Value	Limit	Result
	16.445 MHz	N/A	N/A



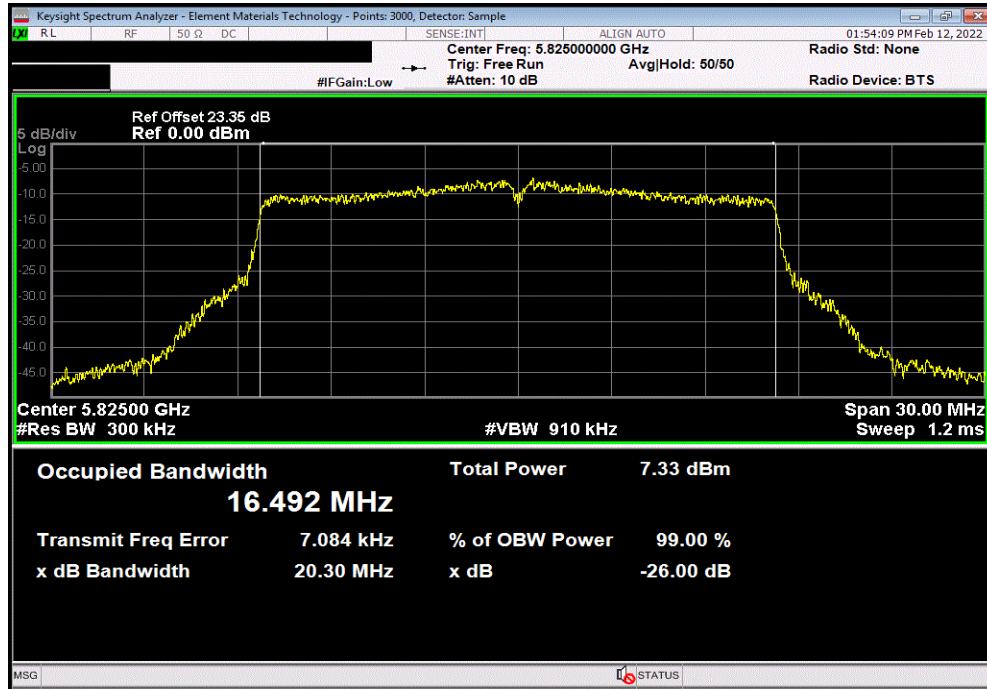
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

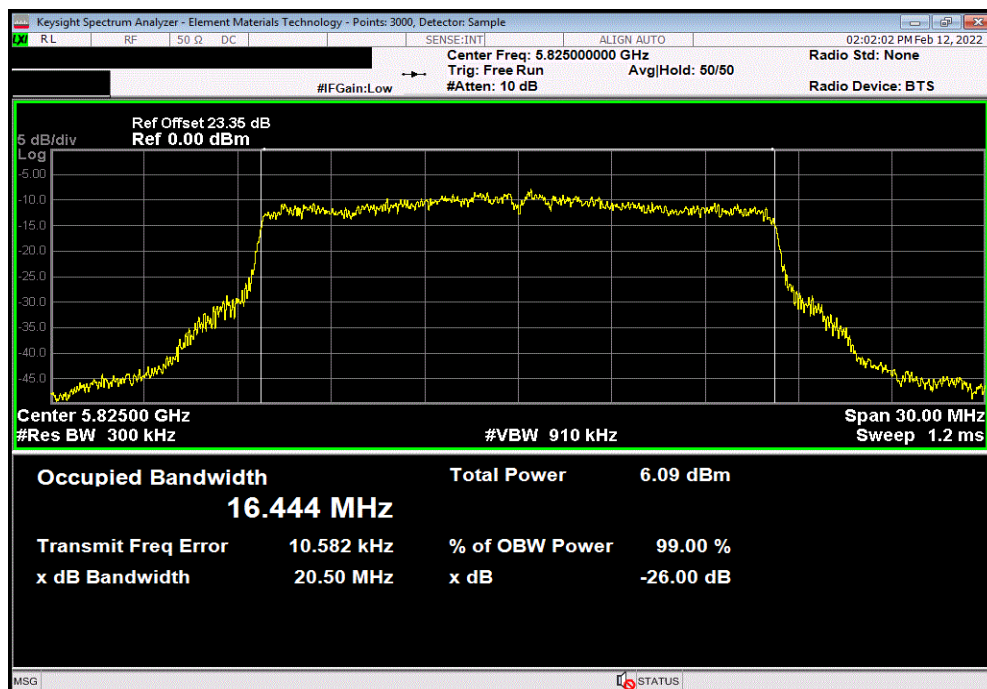
5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 6 Mbps

	Value	Limit	Result
	16.492 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 36 Mbps

	Value	Limit	Result
	16.444 MHz	N/A	N/A



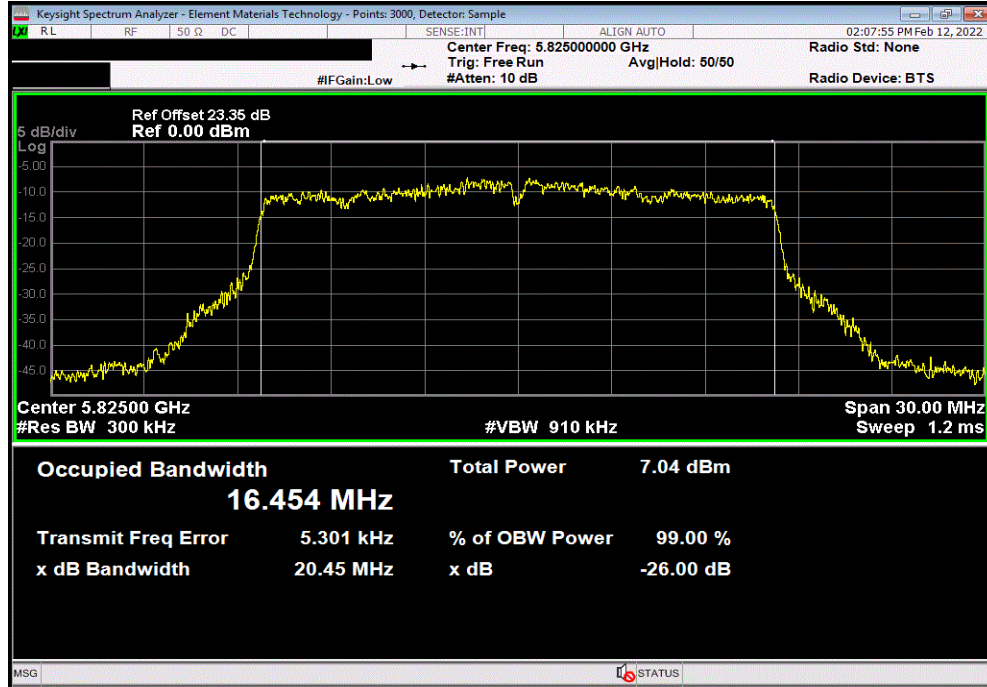
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMR 2022.02.07.0

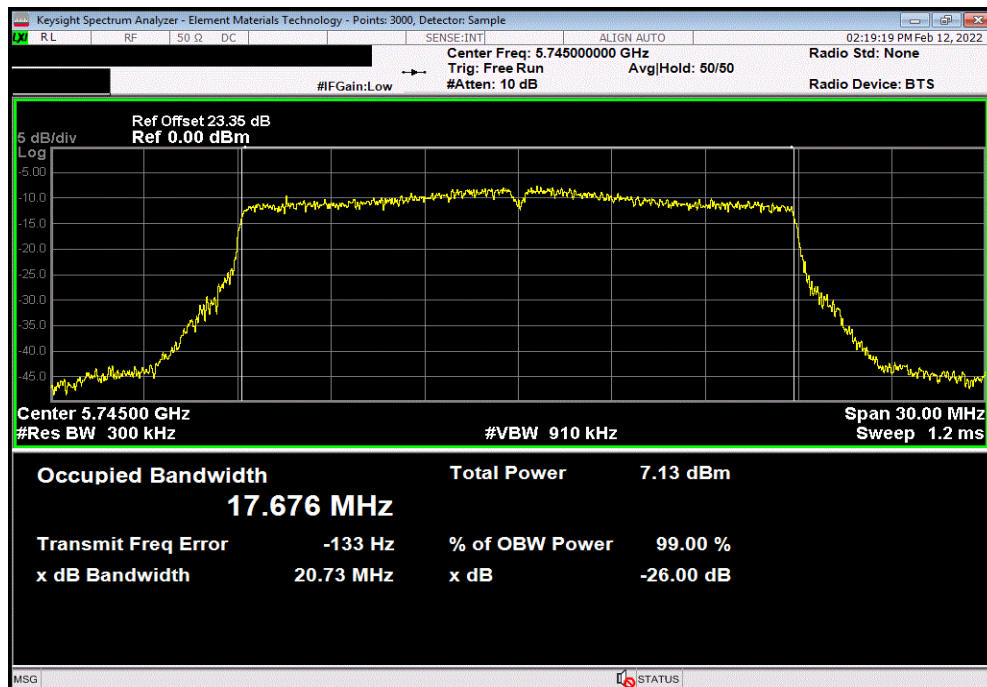
5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 54 Mbps

	Value	Limit	Result
	16.454 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS0

	Value	Limit	Result
	17.676 MHz	N/A	N/A



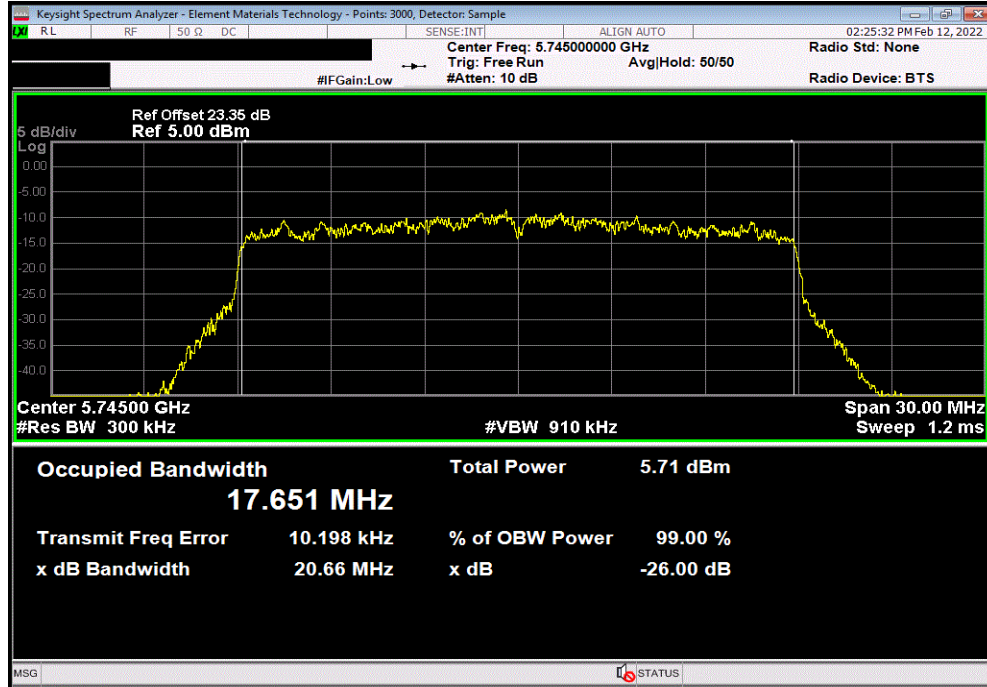
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

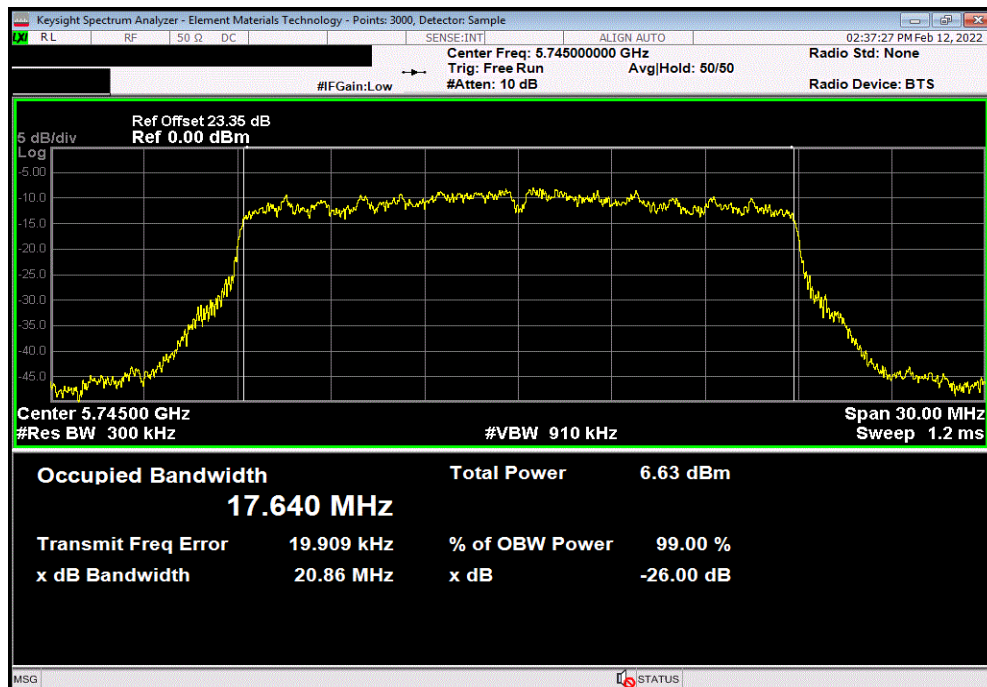
5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS7

	Value	Limit	Result
	17.651 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS8 (256-QAM)

	Value	Limit	Result
	17.64 MHz	N/A	N/A



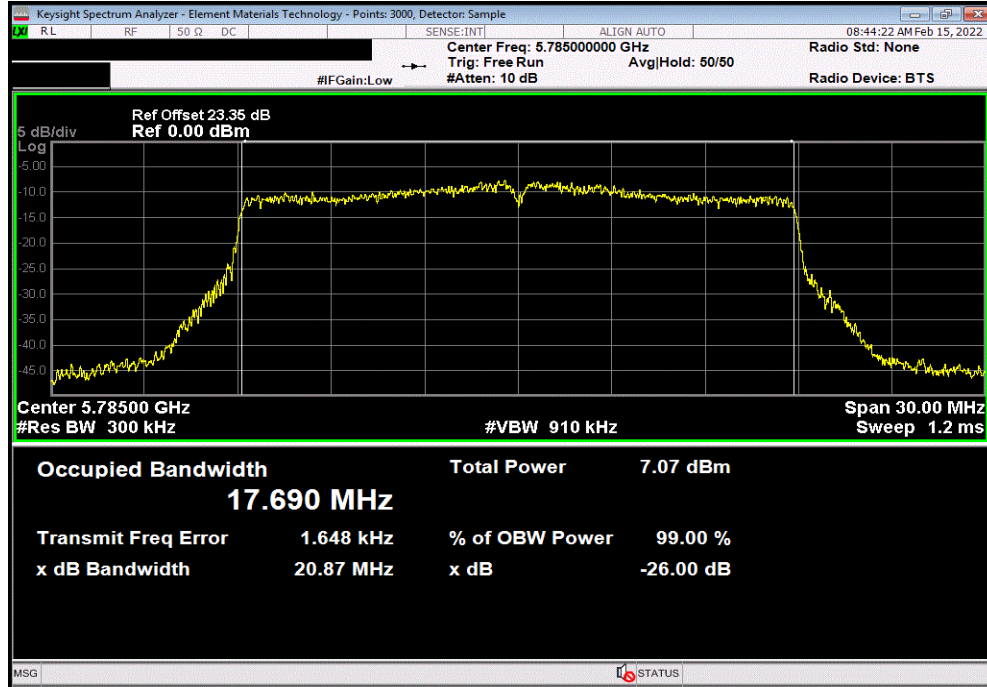
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

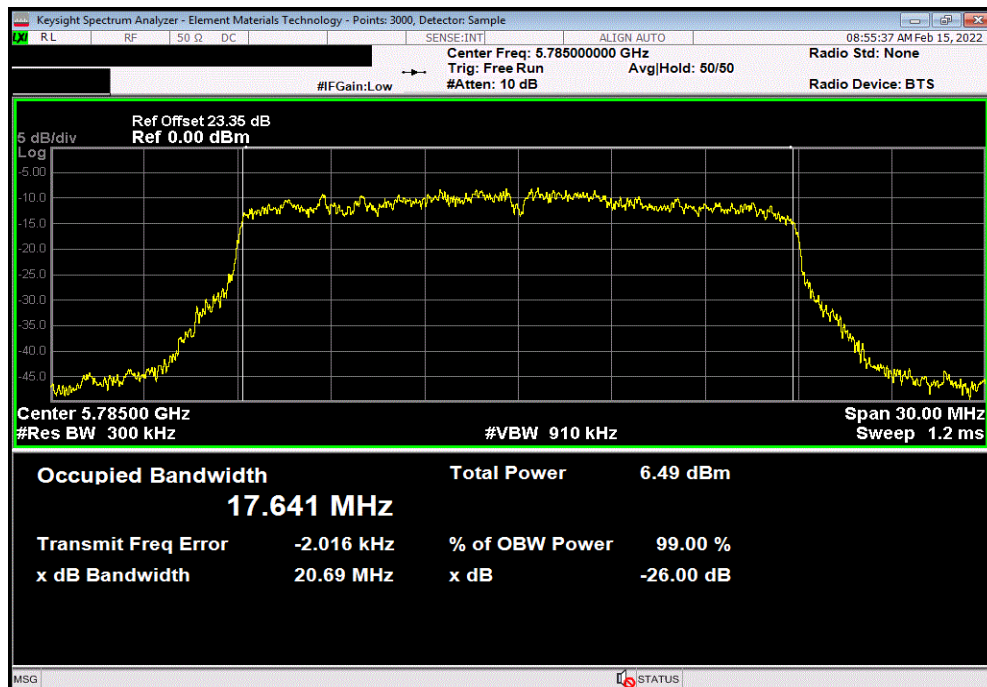
5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS0

	Value	Limit	Result
	17.69 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS7

	Value	Limit	Result
	17.641 MHz	N/A	N/A



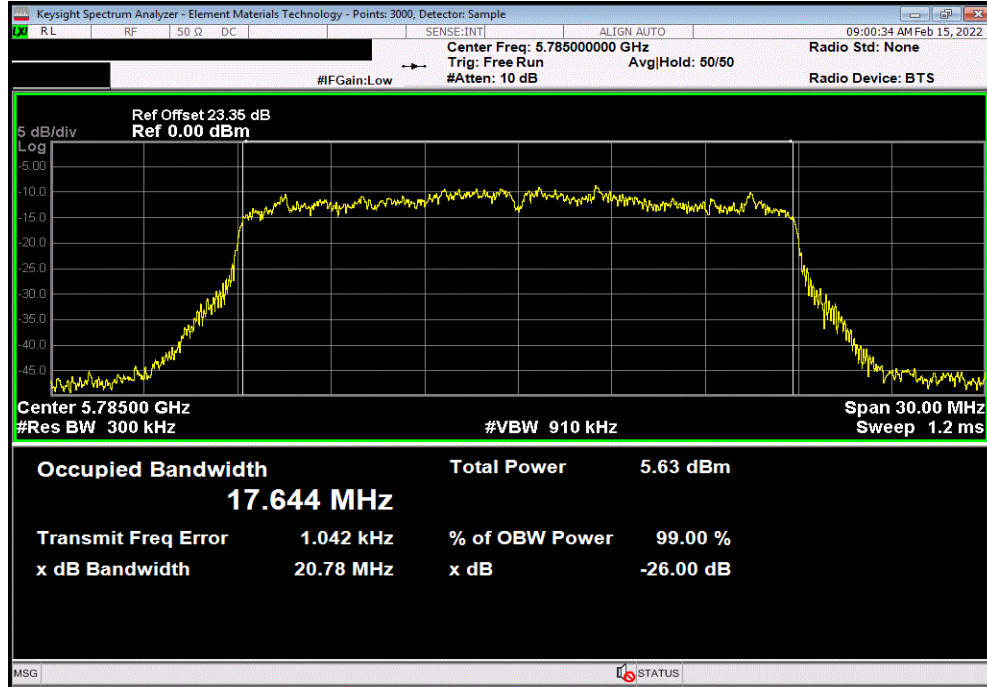
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

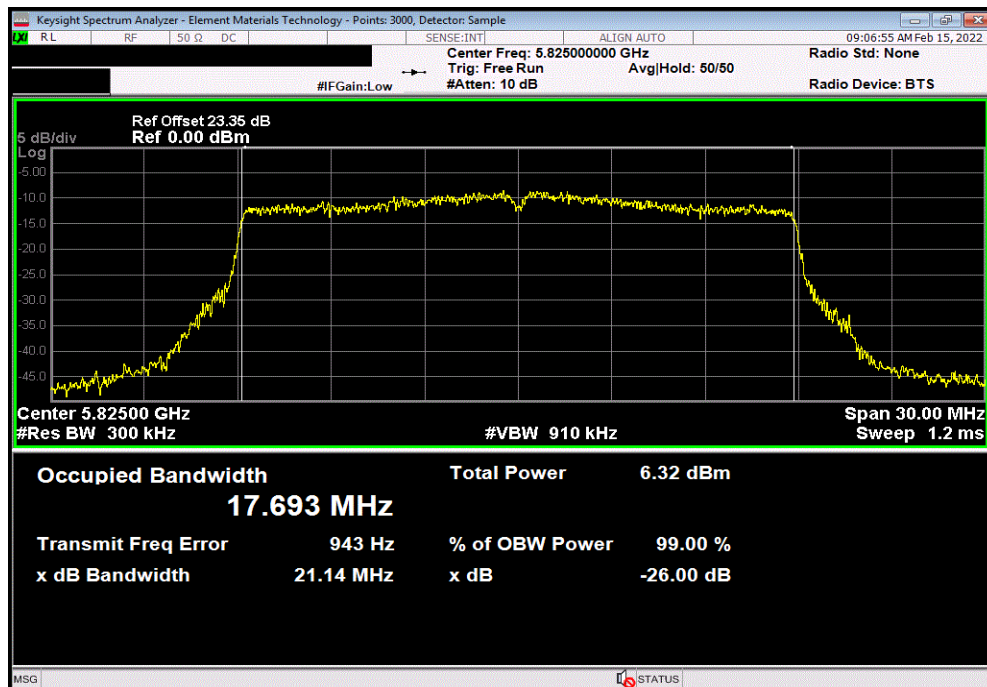
5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS8 (256-QAM)

Value	Limit	Result
17.644 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS0

Value	Limit	Result
17.693 MHz	N/A	N/A



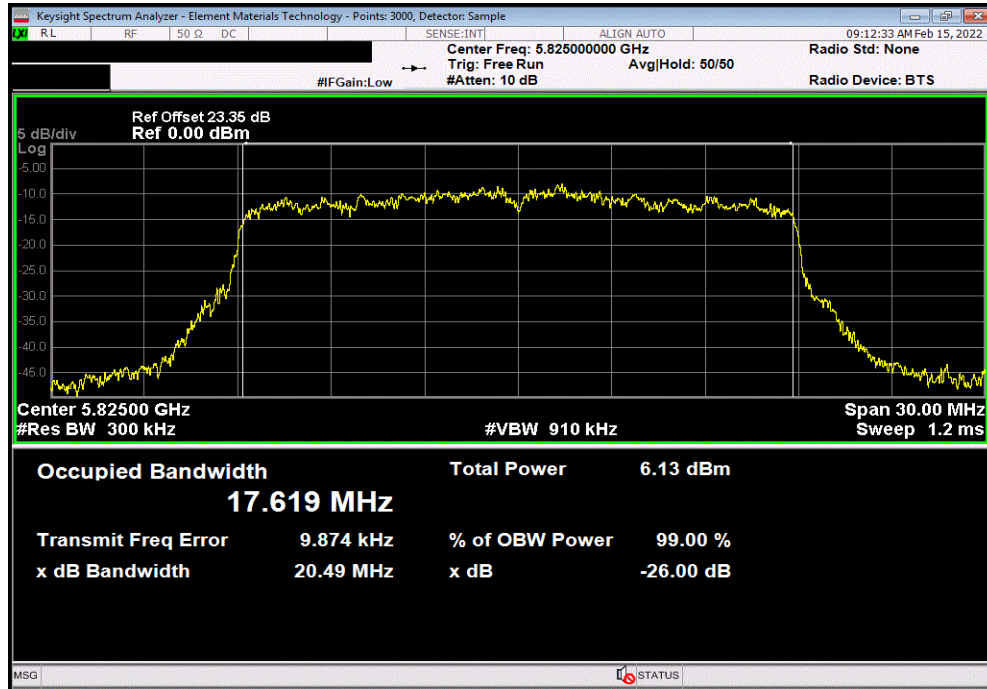
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMR 2022.02.07.0

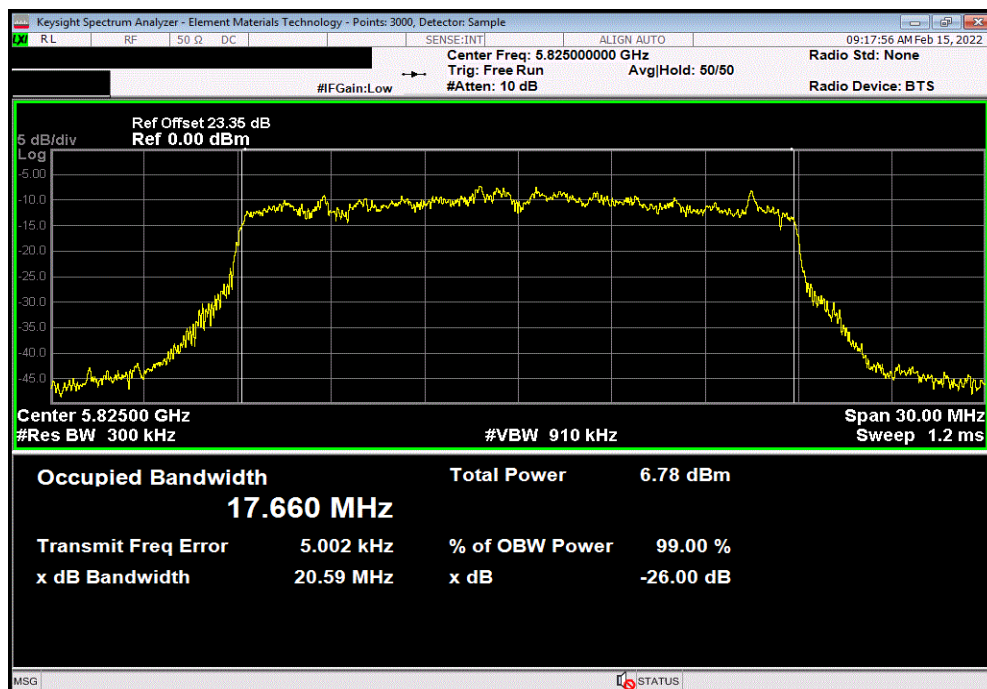
5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS7

Value	Limit	Result
17.619 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS8 (256-QAM)

Value	Limit	Result
17.66 MHz	N/A	N/A



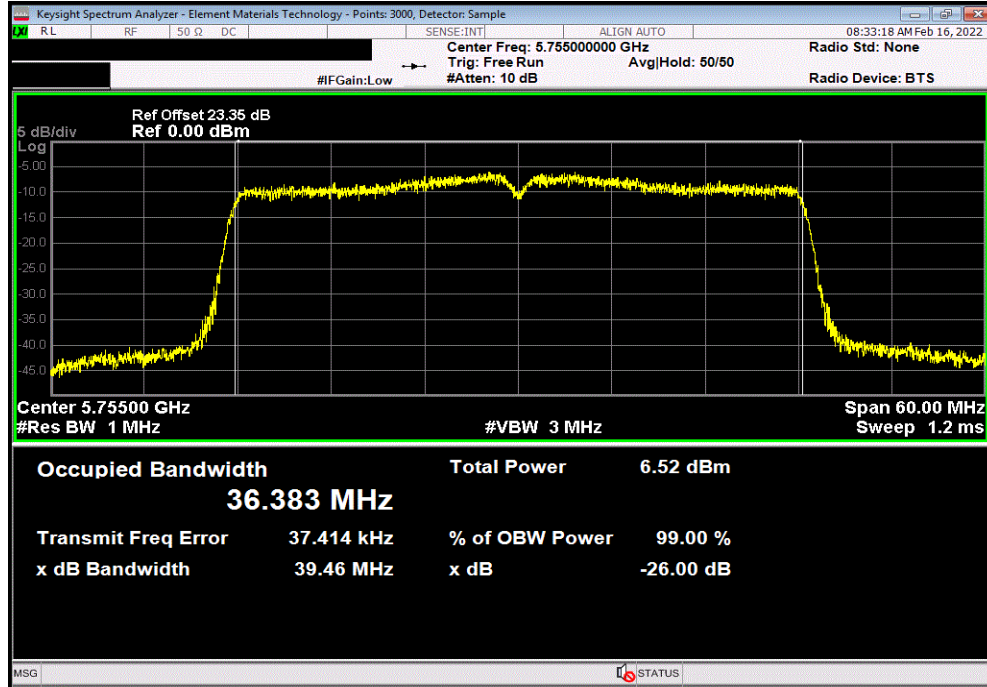
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XbTx 2022.02.07.0

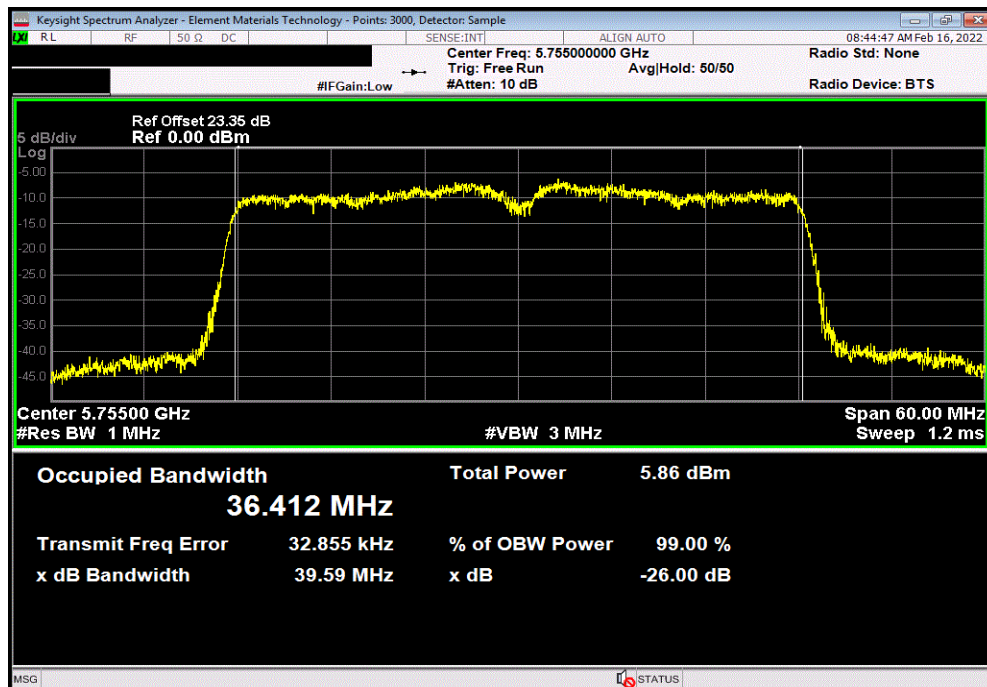
5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS0

	Value	Limit	Result
	36.383 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS7

	Value	Limit	Result
	36.412 MHz	N/A	N/A



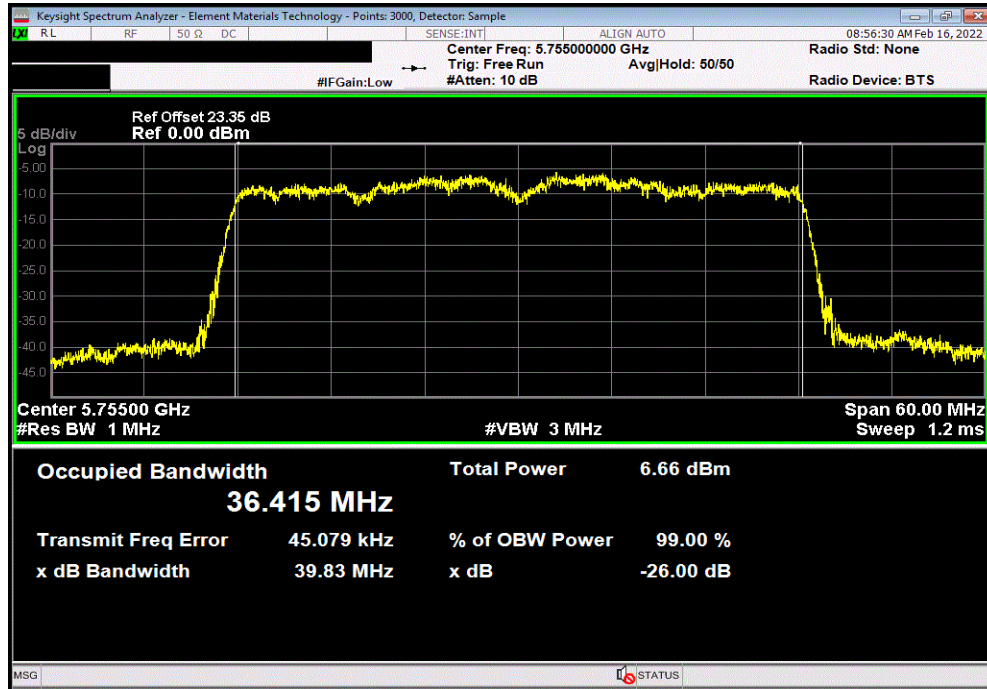
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XbTx 2022.02.07.0

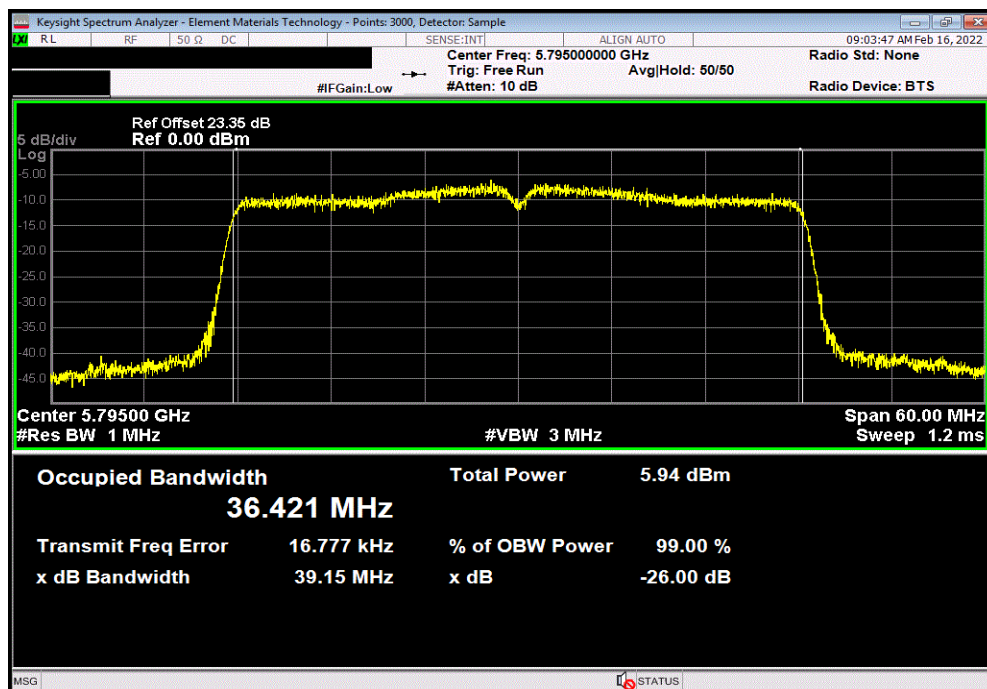
5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS9 (256-QAM)

	Value	Limit	Result
	36.415 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS9

	Value	Limit	Result
	36.421 MHz	N/A	N/A



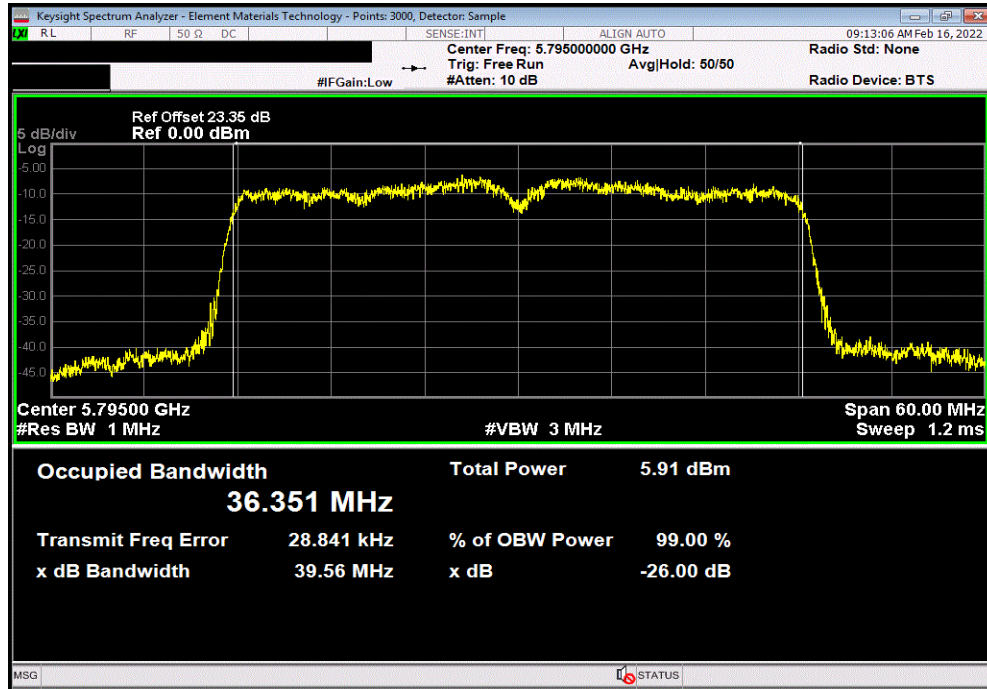
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2022.02.07.0

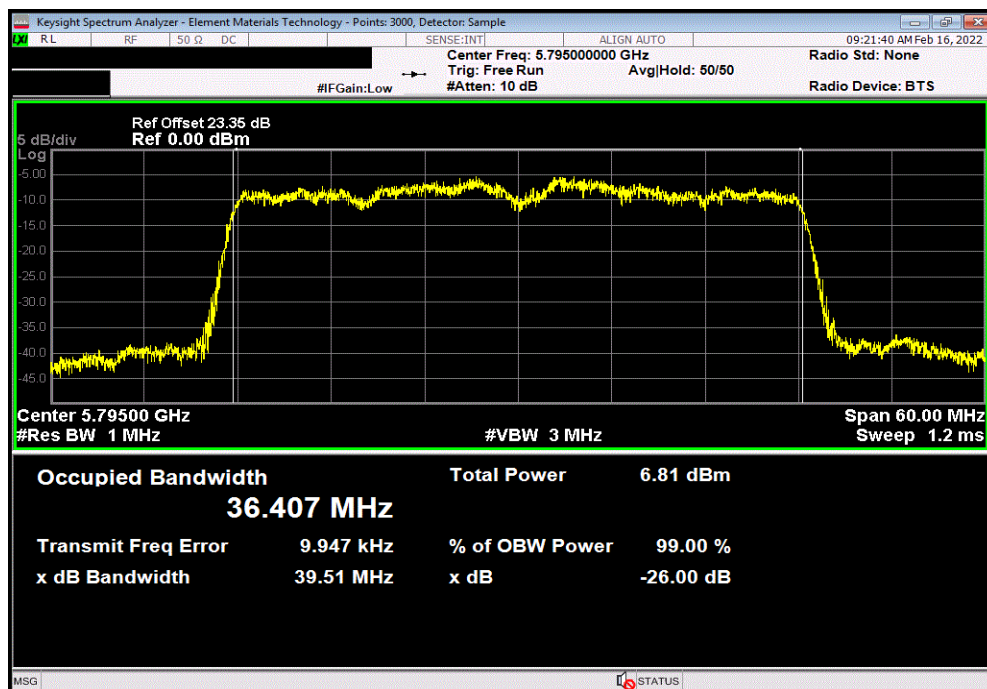
5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS7

	Value	Limit	Result
	36.351 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS9 (256-QAM)

	Value	Limit	Result
	36.407 MHz	N/A	N/A



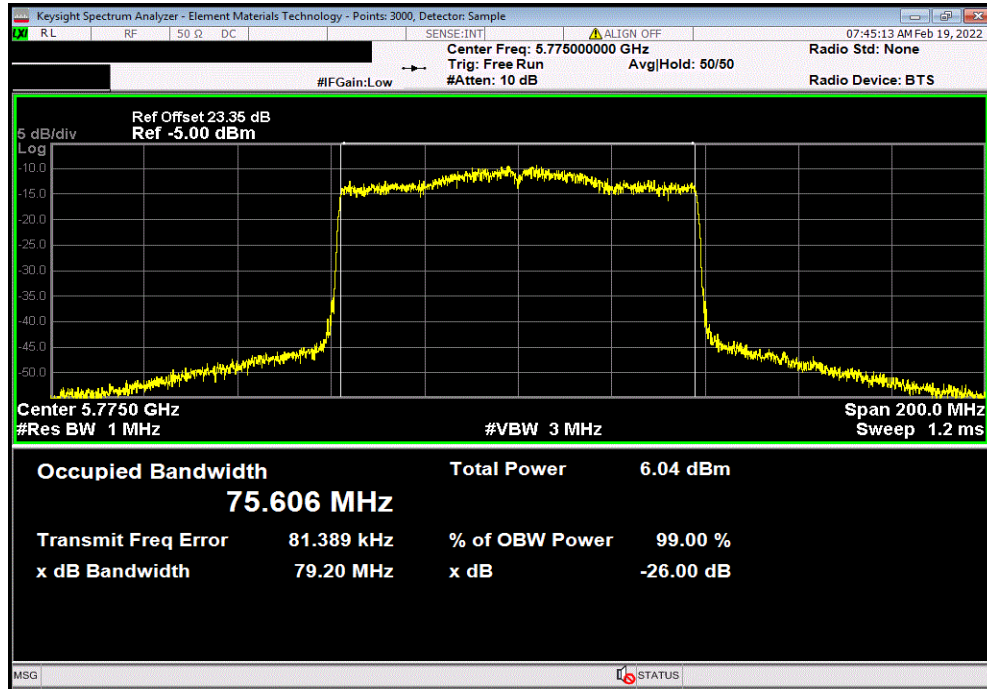
OCCUPIED BANDWIDTH - 5.8 GHz BAND



TbTx 2021.03.19.1 XbTx 2022.02.07.0

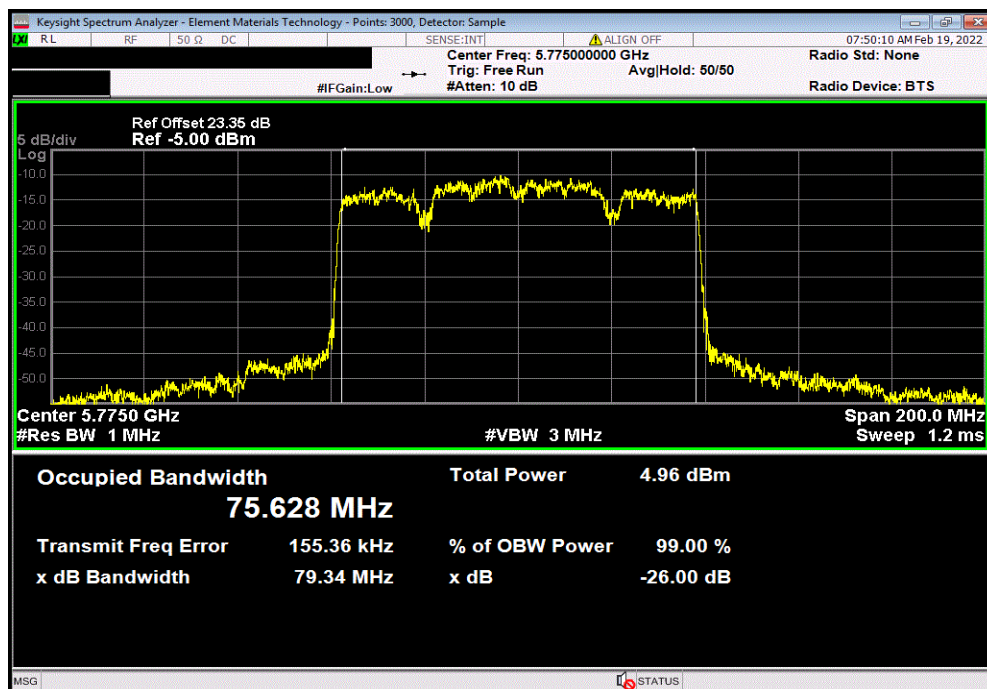
5725 - 5785 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS0

	Value	Limit	Result
	75.606 MHz	N/A	N/A



5725 - 5785 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS9 (256-QAM)

	Value	Limit	Result
	75.628 MHz	N/A	N/A



BAND EDGE - 5.2 GHz BAND



XMIT 2020.12.30.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	2021-04-08	2022-04-08

TEST DESCRIPTION

The 99% emission bandwidth of the carrier was measured using the occupied bandwidth function of the spectrum analyzer. The markers of the 99% emission bandwidth measurement were evaluated to ensure that no part 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.

The transmit power was set to its default maximum.

BAND EDGE - 5.2 GHz BAND



TSTx 2021.03.19.1 XMR 2020.12.30.0

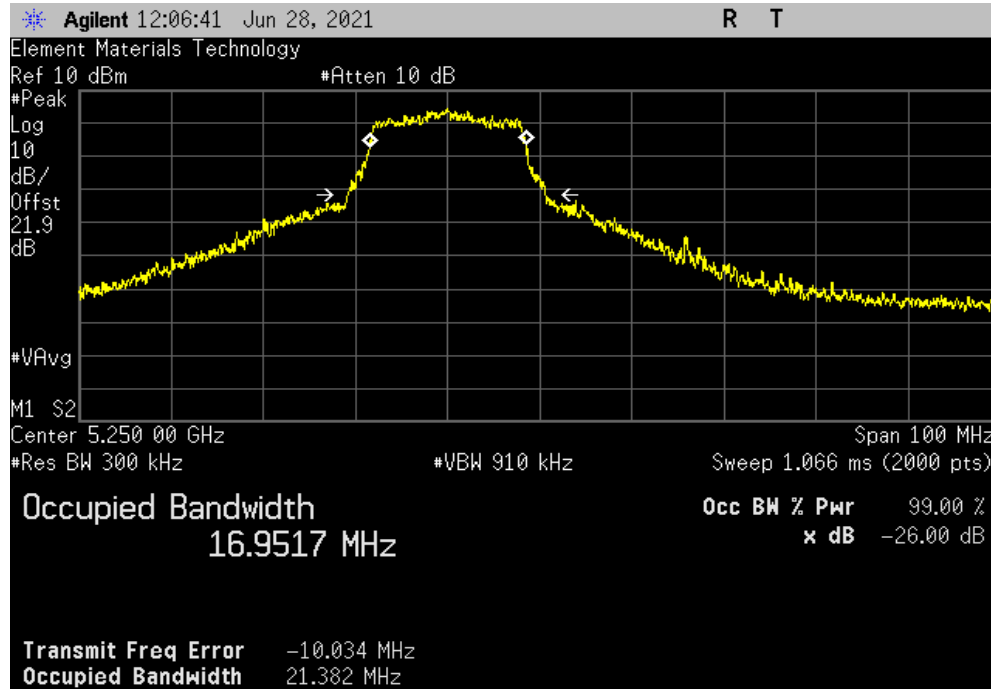
EUT: 43.0536.00		Work Order: A-DE0162	
Serial Number: SN001 00003		Date: 28-Jun-21	
Customer: A-dec, Inc.		Temperature: 24.9 °C	
Attendees: Zach Lyda		Humidity: 49.2% RH	
Project: None		Barometric Pres.: 1007 mbar	
Tested by: Jeff Alcoke		Power: 3.3 VDC via 110VAC/60Hz	
		Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2021		ANSI C63.10:2013	
COMMENTS			
Reference level offset: DC Block, 20 dB attenuator, and measurement cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		OBW Within Band	Band Edge (MHz)
			Result
20 MHz	802.11(a) 6 Mbps		
	Ch 48, High Channel 5240 MHz	Yes	5250 Pass
	802.11(a) 36 Mbps		
	Ch 48, High Channel 5240 MHz	Yes	5250 Pass
	802.11(a) 54 Mbps		
	Ch 48, High Channel 5240 MHz	Yes	5250 Pass
	802.11(n) MCS0		
	Ch 48, High Channel 5240 MHz	Yes	5250 Pass
	802.11(n) MCS7		
	Ch 48, High Channel 5240 MHz	Yes	5250 Pass
	802.11(ac) MCS8 (256-QAM)		
	Ch 48, High Channel 5240 MHz	Yes	5250 Pass
40 MHz	802.11(n) MCS0		
	Ch 44/48, High Channel 5230 MHz	Yes	5250 Pass
	802.11(n) MCS7		
	Ch 44/48, High Channel 5230 MHz	Yes	5250 Pass
	802.11(ac) MCS9 (256-QAM)		
	Ch 44/48, High Channel 5230 MHz	Yes	5250 Pass
80 MHz	802.11(ac) MCS0		
	Ch 36-48, Low Channel 5210 MHz	Yes	5250 Pass
	802.11(ac) MCS9 (256-QAM)		
	Ch 36-48, Low Channel 5210 MHz	Yes	5250 Pass

BAND EDGE - 5.2 GHz BAND

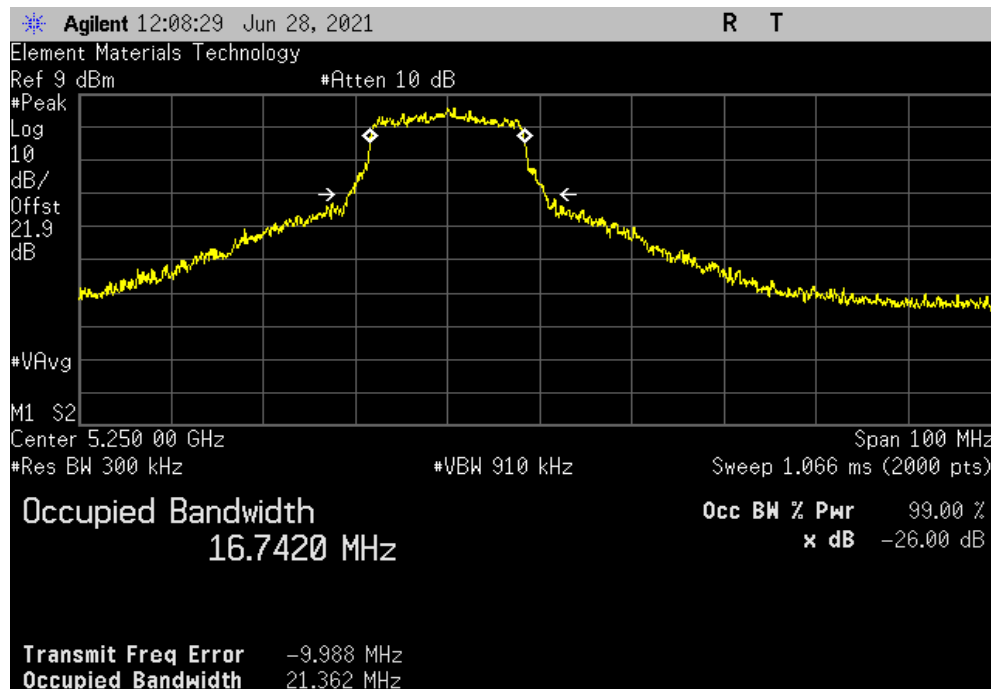


TbTx 2021.03.19.1 XMt 2020.12.30.0

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

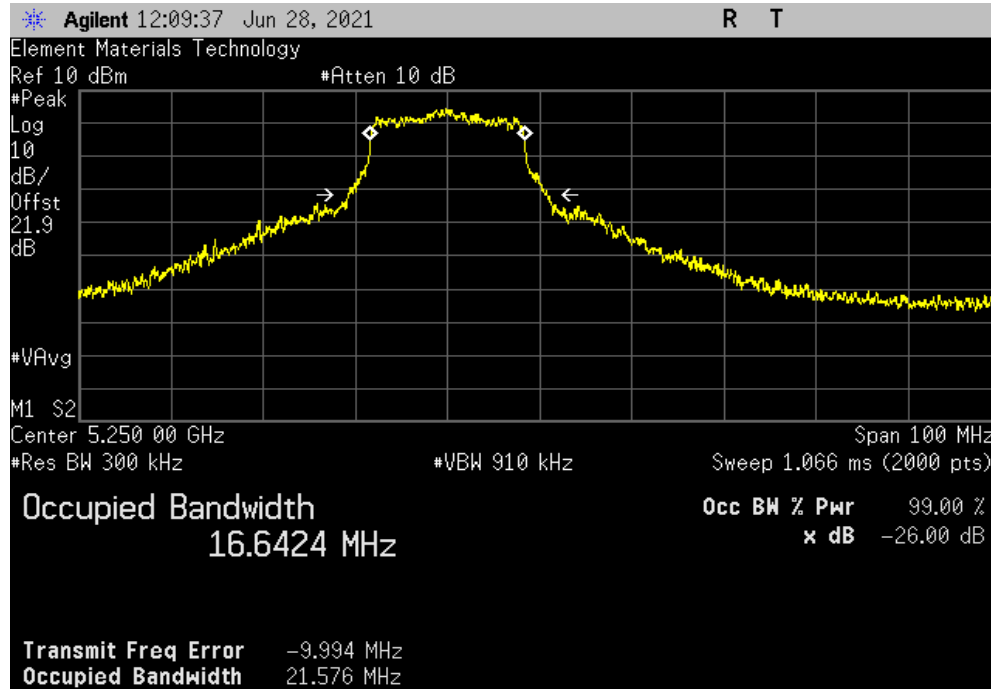


BAND EDGE - 5.2 GHz BAND

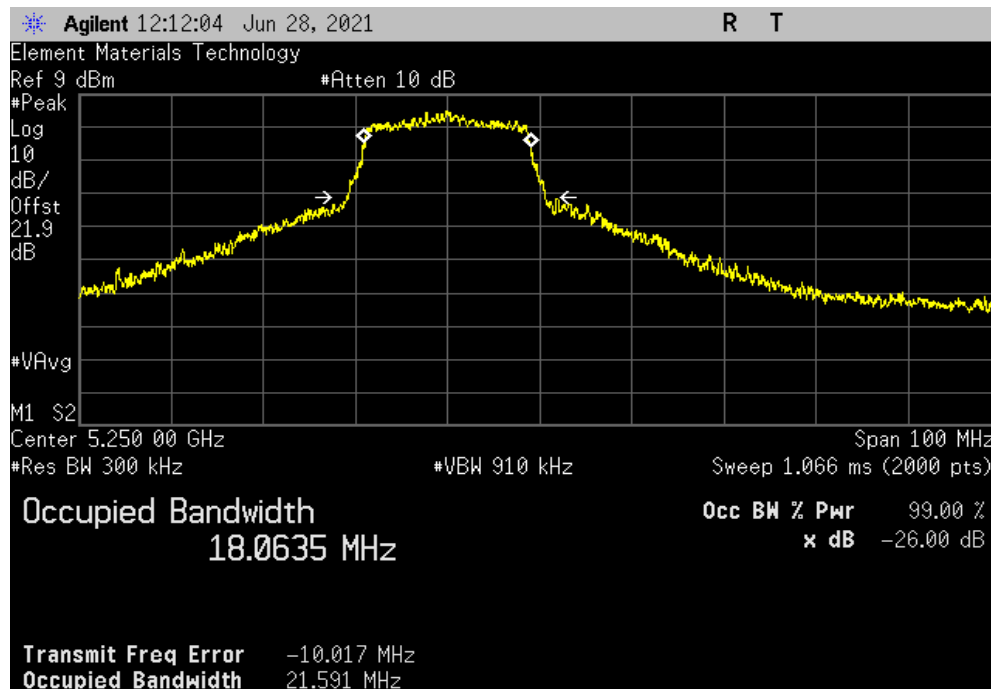


TUTx 2021.03.19.1 XMR 2020.12.30.0

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



20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5250	Pass			

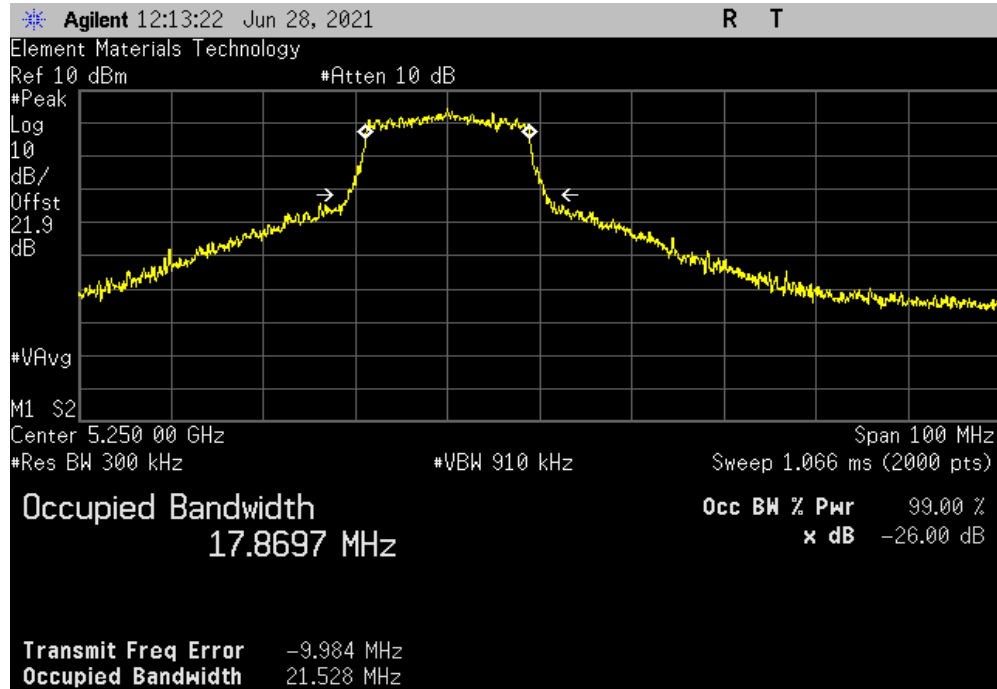


BAND EDGE - 5.2 GHz BAND

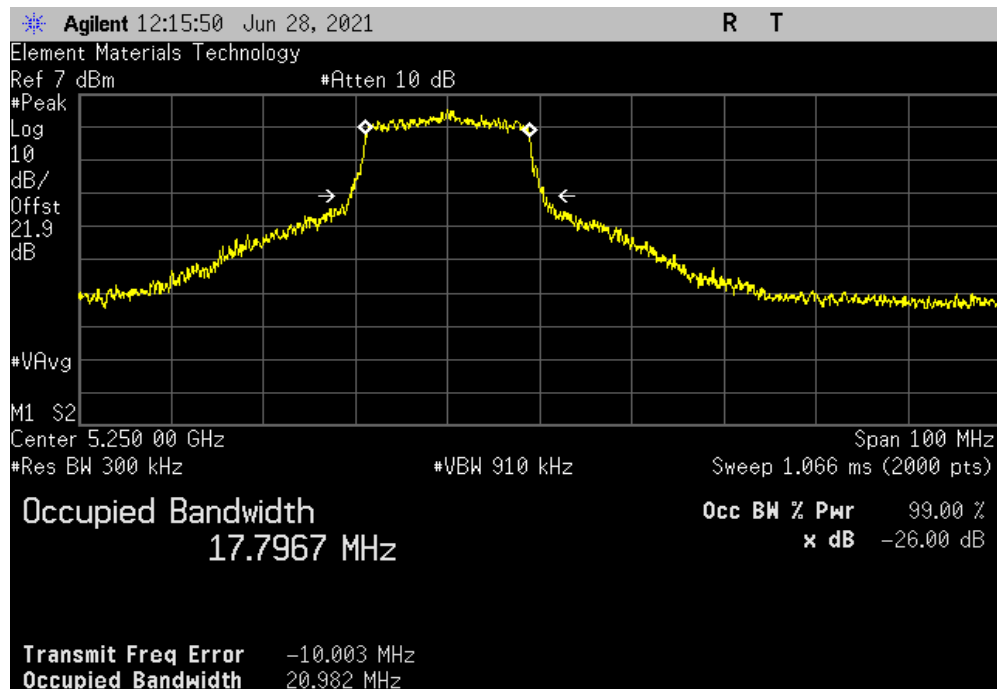


TMTx 2021.03.19.1 XMR 2020.12.30.0

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(ac) MCS8 (256-QAM), Ch 48, High Channel 5240 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass

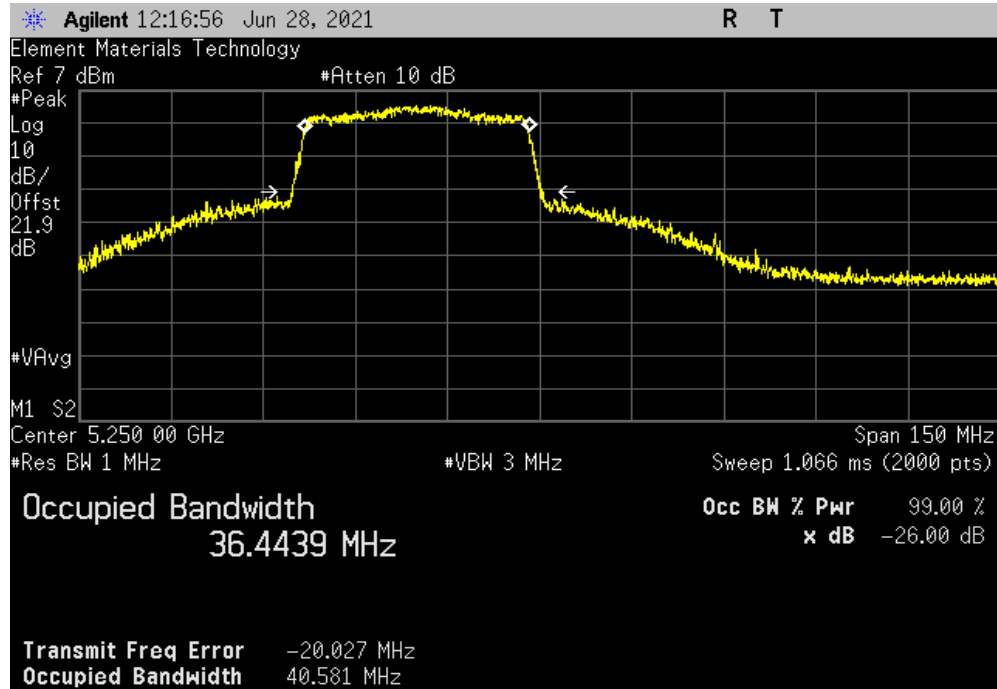


BAND EDGE - 5.2 GHz BAND

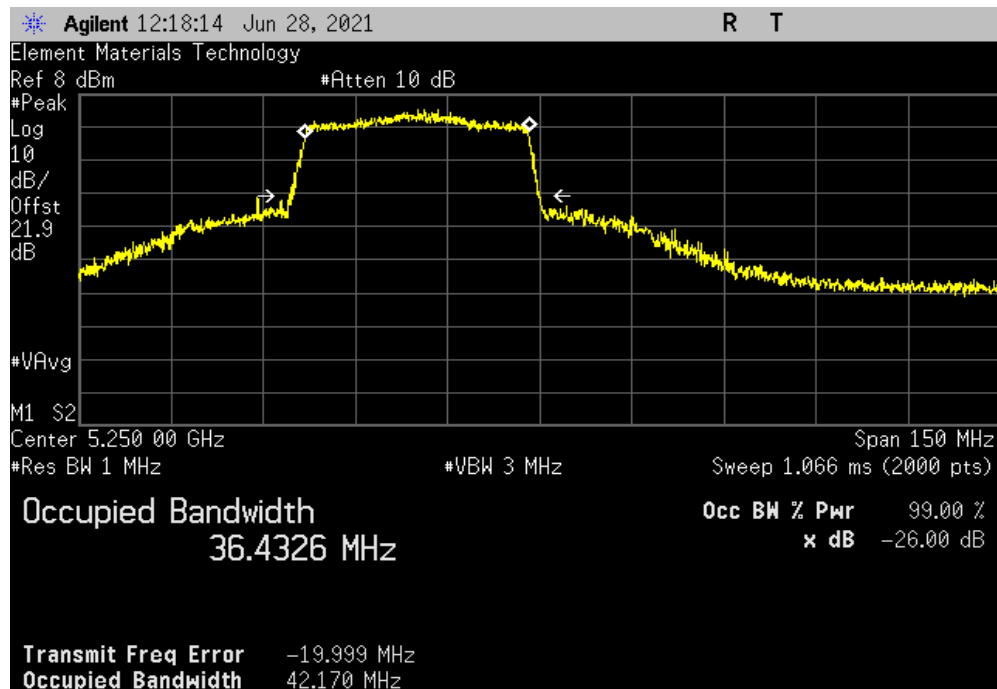


TMTx 2021.03.19.1 XMR 2020.12.30.0

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

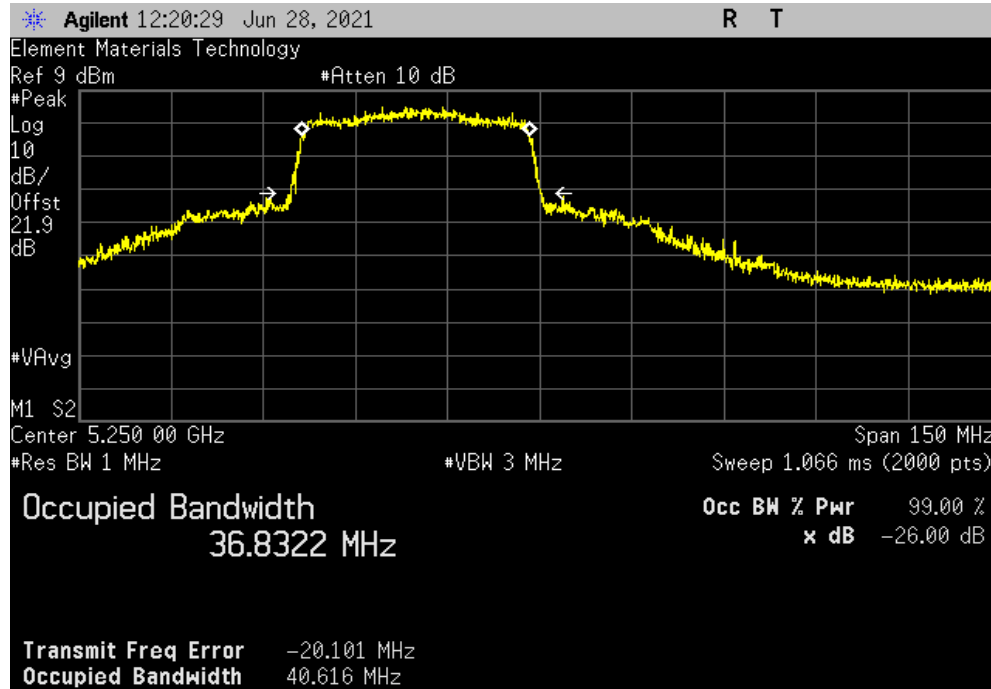


BAND EDGE - 5.2 GHz BAND

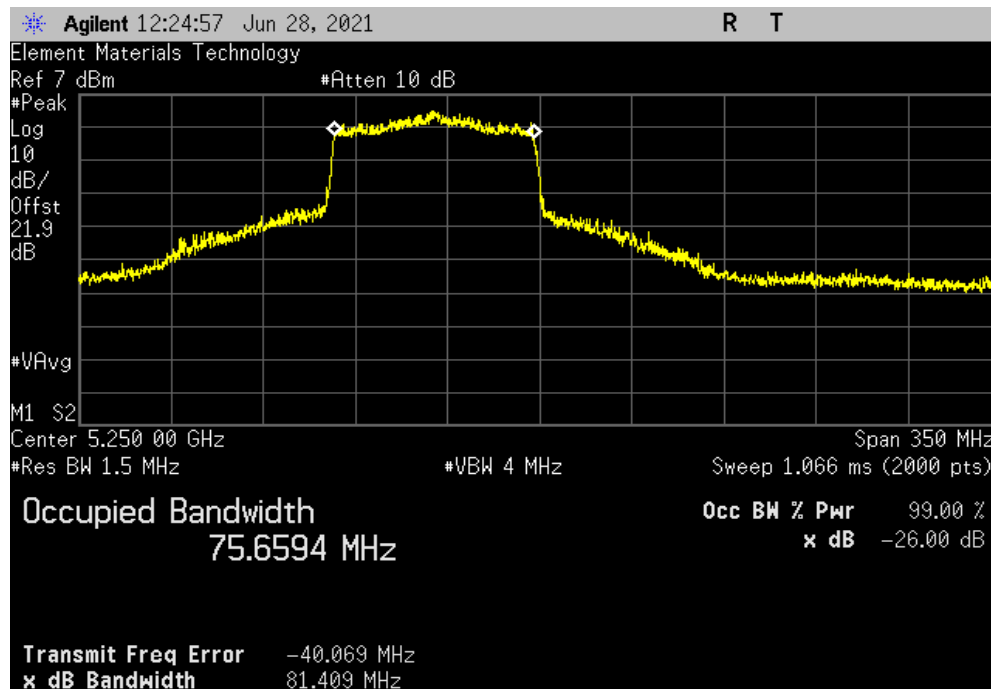


TMTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 44/48, High Channel 5230 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass



80 MHz, 802.11(ac) MCS0, Ch 36-48, Low Channel 5210 MHz						
				OBW Within Band	Band Edge (MHz)	Result
				Yes	5250	Pass

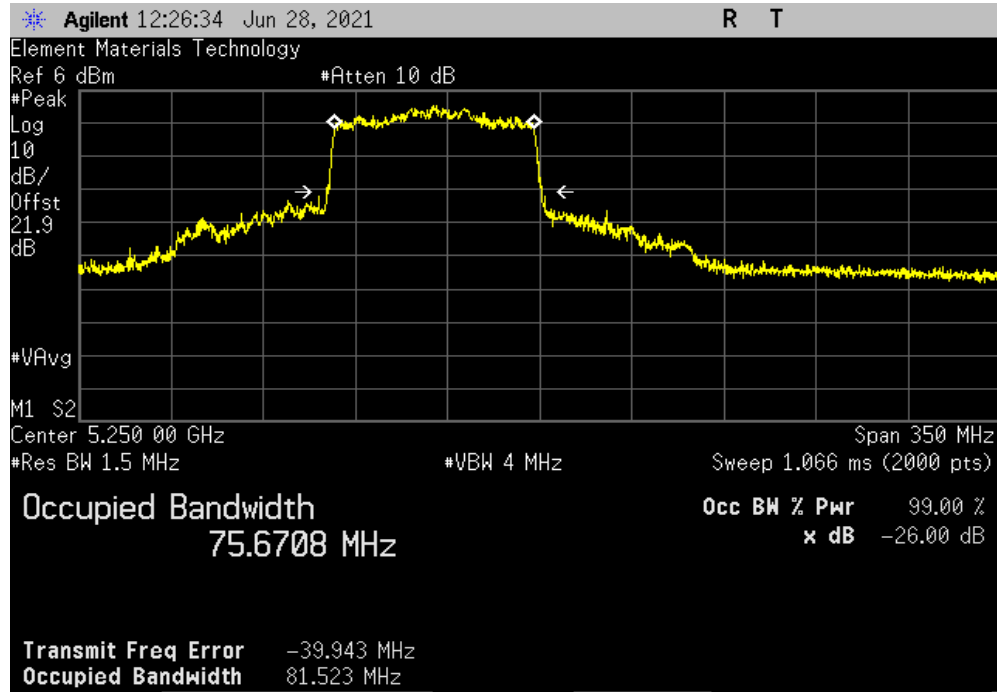


BAND EDGE - 5.2 GHz BAND



TbTx 2021.03.19.1 XMR 2020.12.30.0

80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36-48, Low Channel 5210 MHz						
			OBW	Band Edge		
			Within Band	(MHz)	Result	
			Yes	5250	Pass	



BAND EDGE - 5.8 GHz BAND



XMIT 2020.12.30.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Supply - DC	Topward	TPS-2000	TPD	NCR	NCR
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

TEST DESCRIPTION

The 99% emission bandwidth of the carrier was measured using the occupied bandwidth function of the spectrum analyzer. The markers of the 99% emission bandwidth measurement were evaluated to ensure that no part 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.

The transmit power was set to its default maximum.

BAND EDGE - 5.8 GHz BAND



TSTx 2021.03.19.1 XMR 2020.12.30.0

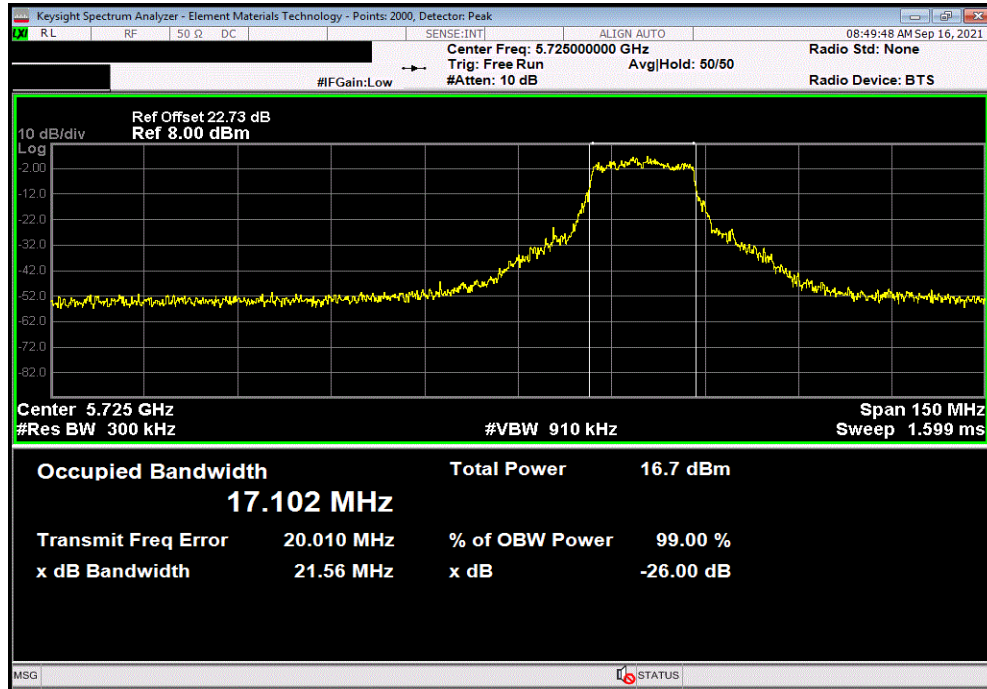
EUT: 43.0536.00		Work Order: A-DE0170	
Serial Number: SN001 00001		Date: 15-Sep-21	
Customer: A-dec, Inc.		Temperature: 23 °C	
Attendees: Ben Meadows		Humidity: 44% RH	
Project: None		Barometric Pres.: 1022 mbar	
Tested by: Jeff Alcock	Power: 3.3 VDC	Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2021		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes; DC block, 20 dB attenuator, and measurement cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature 	
		OBW Within Band	Band Edge (MHz)
5725 - 5850 MHz Band			
802.11(a) No HT			
Low Channel, Ch 149 - 5745 MHz			
	6 Mbps	Yes	5725
	36 Mbps	Yes	5725
	54 Mbps	Yes	5725
802.11(n/ac) VHT20			
Low Channel, Ch 149 - 5745 MHz			
	MCS0	Yes	5725
	MCS7	Yes	5725
	MCS8 (256-QAM)	Yes	5725
802.11(n/ac) VHT40			
Low Channel, Ch 149/153 - 5755 MHz			
	MCS0	Yes	5725
	MCS7	Yes	5725
	MCS9 (256-QAM)	Yes	5725
802.11(n/ac) VHT80			
Low Channel, Ch 149-161 - 5775 MHz			
	MCS0	Yes	5725
	MCS9 (256-QAM)	Yes	5725

BAND EDGE - 5.8 GHz BAND

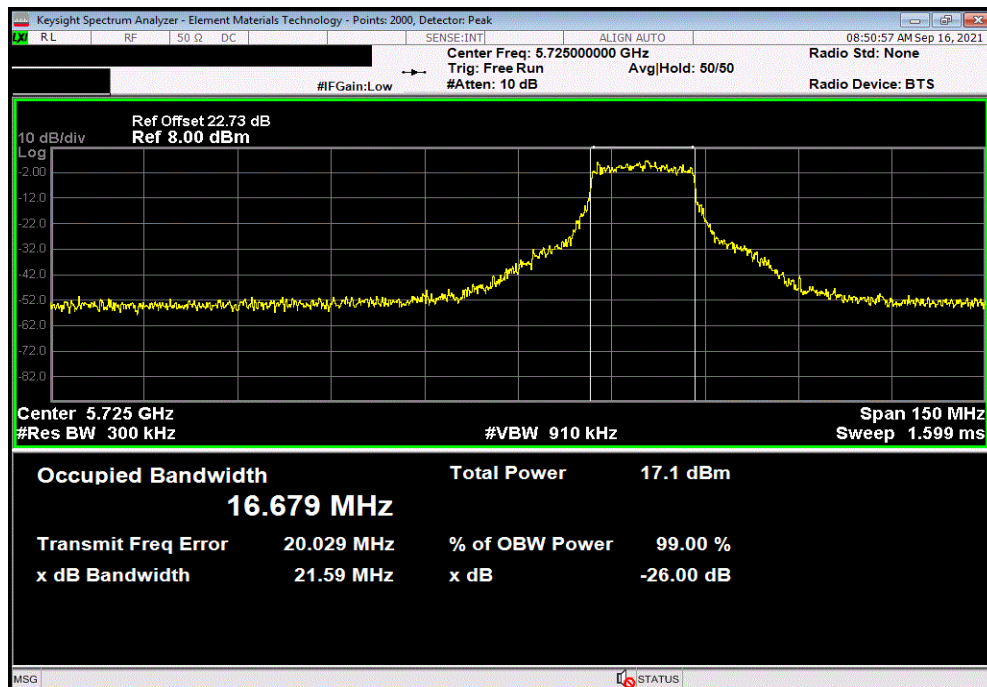


TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 - 5850 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 6 Mbps						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5725	Pass			



5725 - 5850 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 36 Mbps						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5725	Pass			

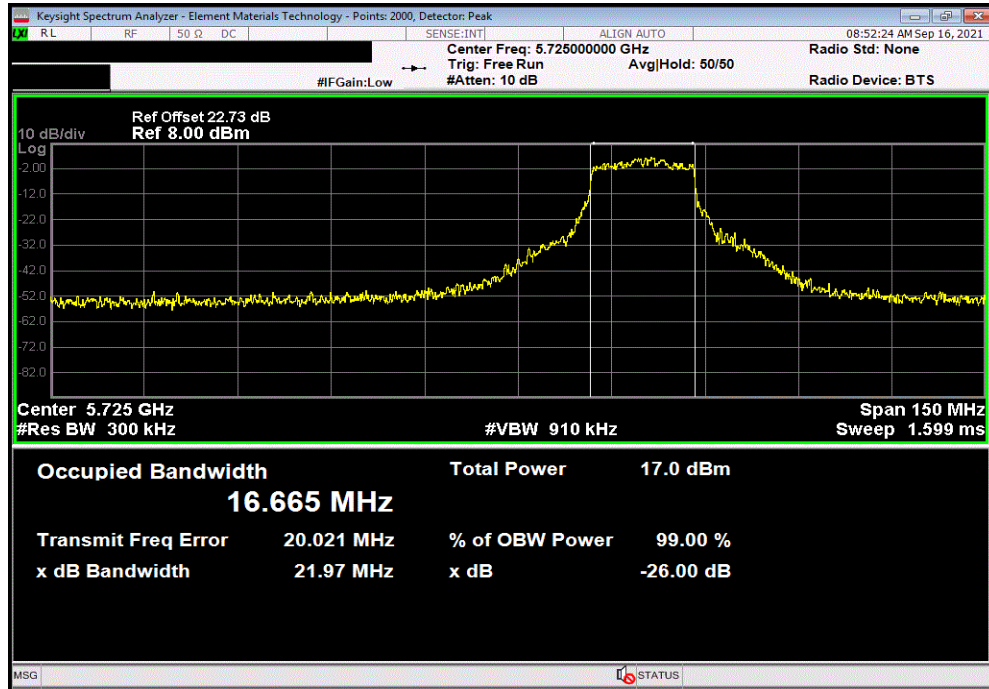


BAND EDGE - 5.8 GHz BAND

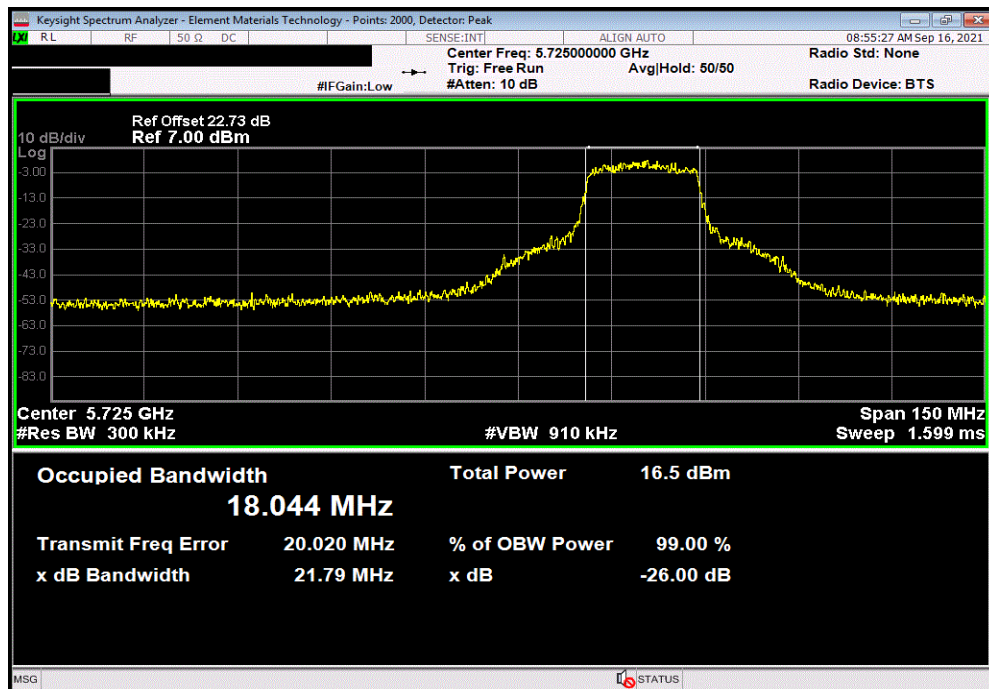


TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 - 5850 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 54 Mbps						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5725	Pass			



5725 - 5850 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS0						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5725	Pass			

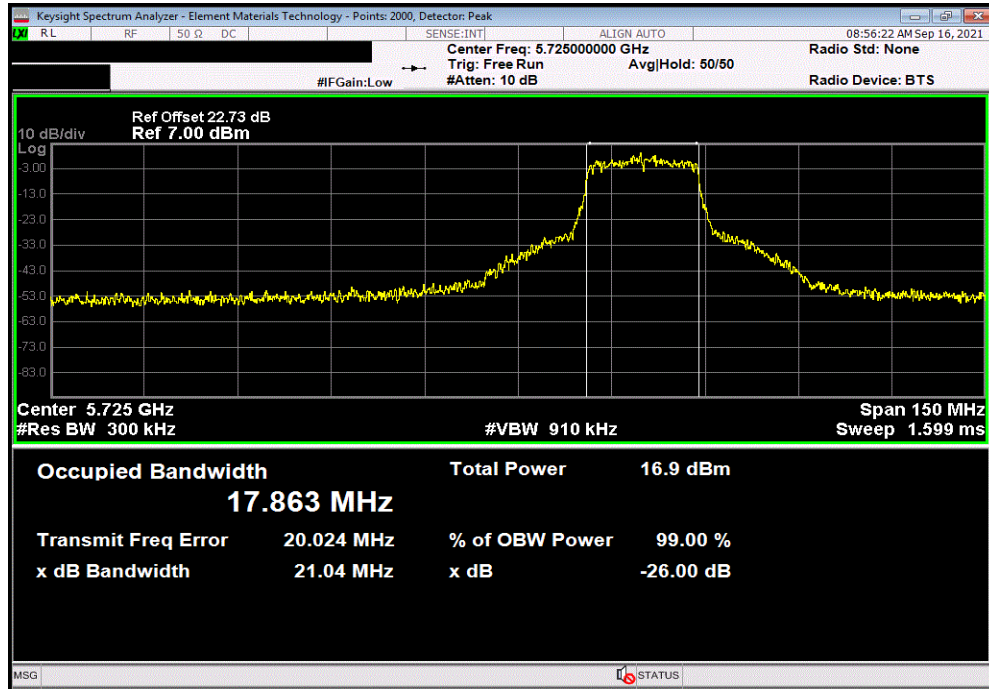


BAND EDGE - 5.8 GHz BAND

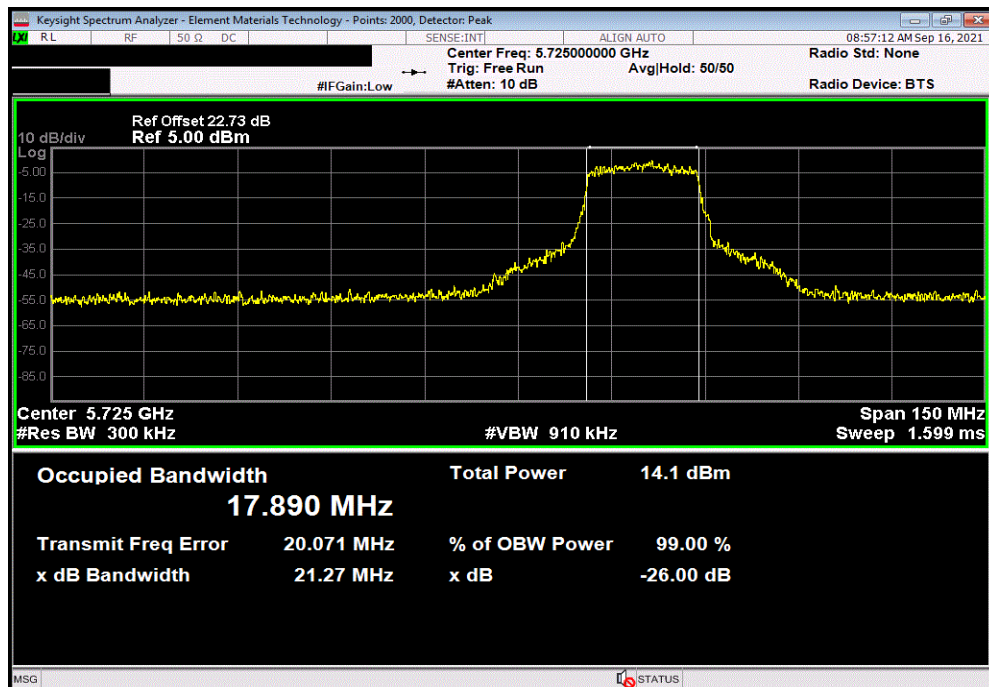


TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 - 5850 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS7						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5725	Pass			



5725 - 5850 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS8 (256-QAM)						
	OBW	Band Edge				
	Within Band	(MHz)	Result			
	Yes	5725	Pass			

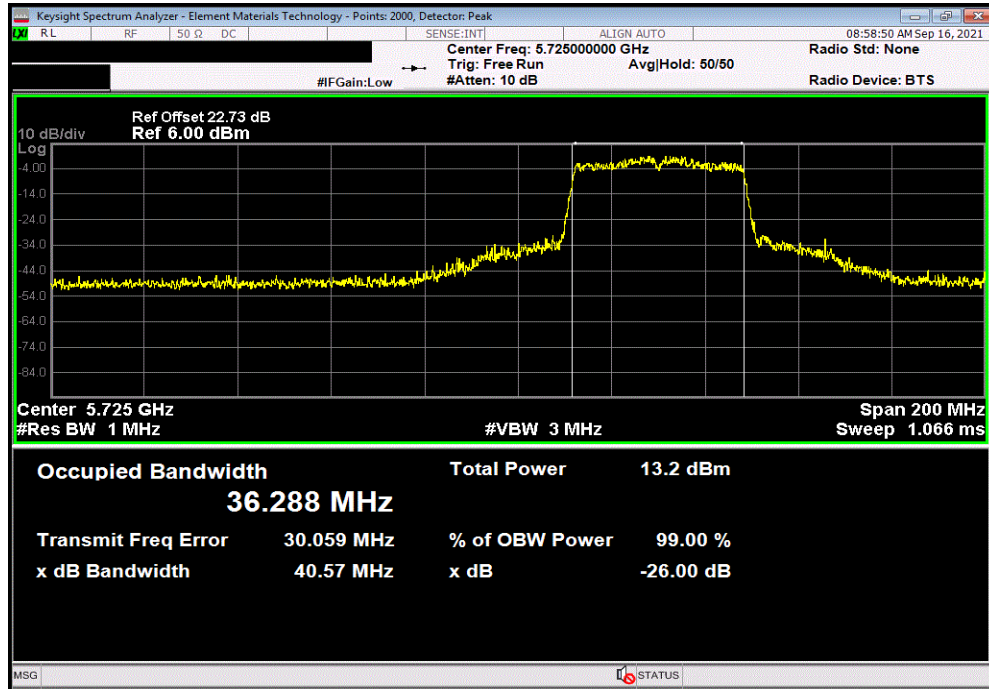


BAND EDGE - 5.8 GHz BAND

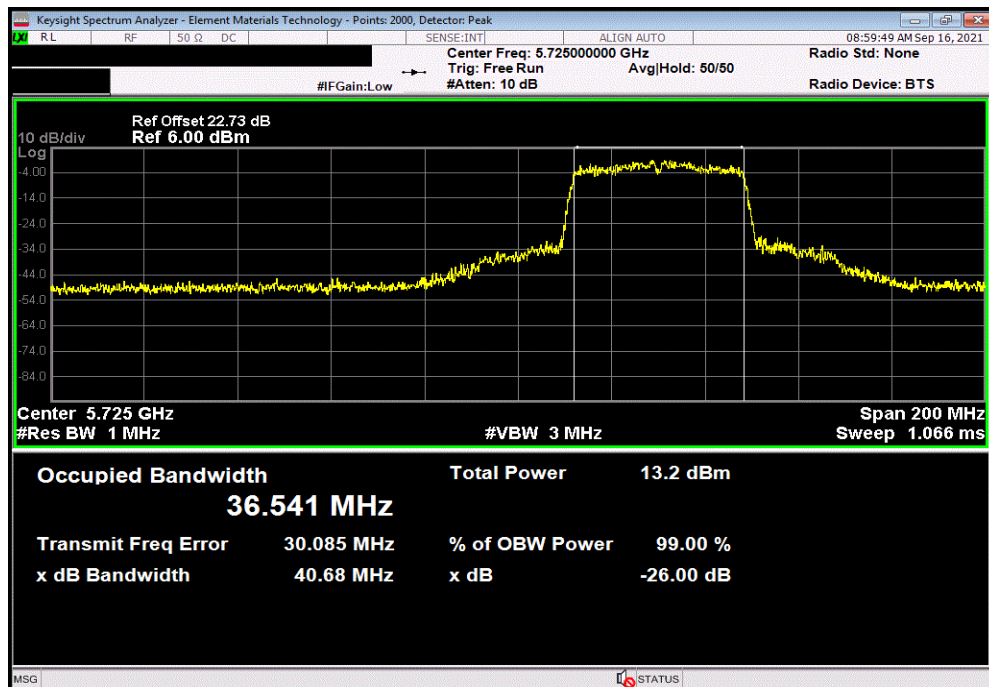


TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 - 5850 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS0						
OBW				Band Edge		
Within Band				(MHz)	Result	
Yes				5725	Pass	



5725 - 5850 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS7						
OBW				Band Edge		
Within Band				(MHz)	Result	
Yes				5725	Pass	

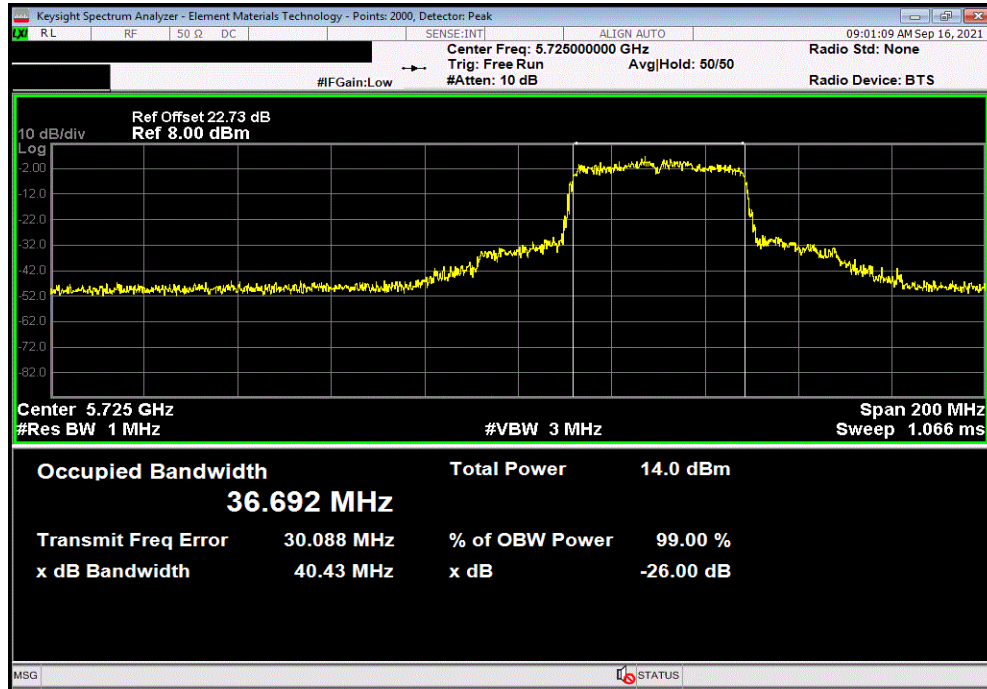


BAND EDGE - 5.8 GHz BAND

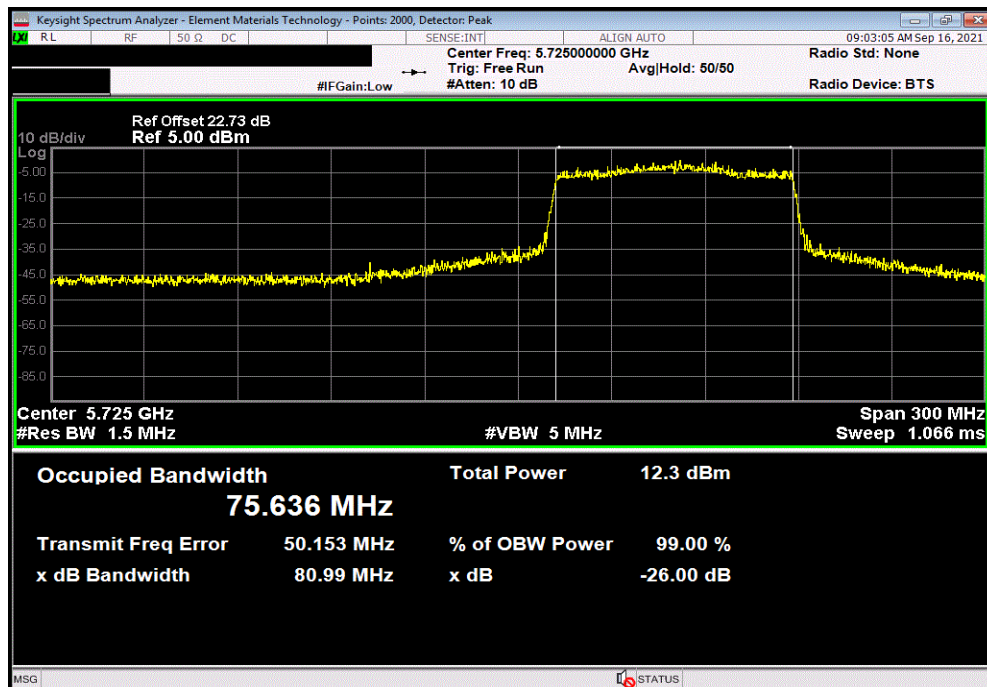


TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 - 5850 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS9 (256-QAM)						
OBW			Band Edge		Result	
Within Band			(MHz)			
Yes			5725		Pass	



5725 - 5850 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS9						
OBW			Band Edge		Result	
Within Band			(MHz)			
Yes			5725		Pass	

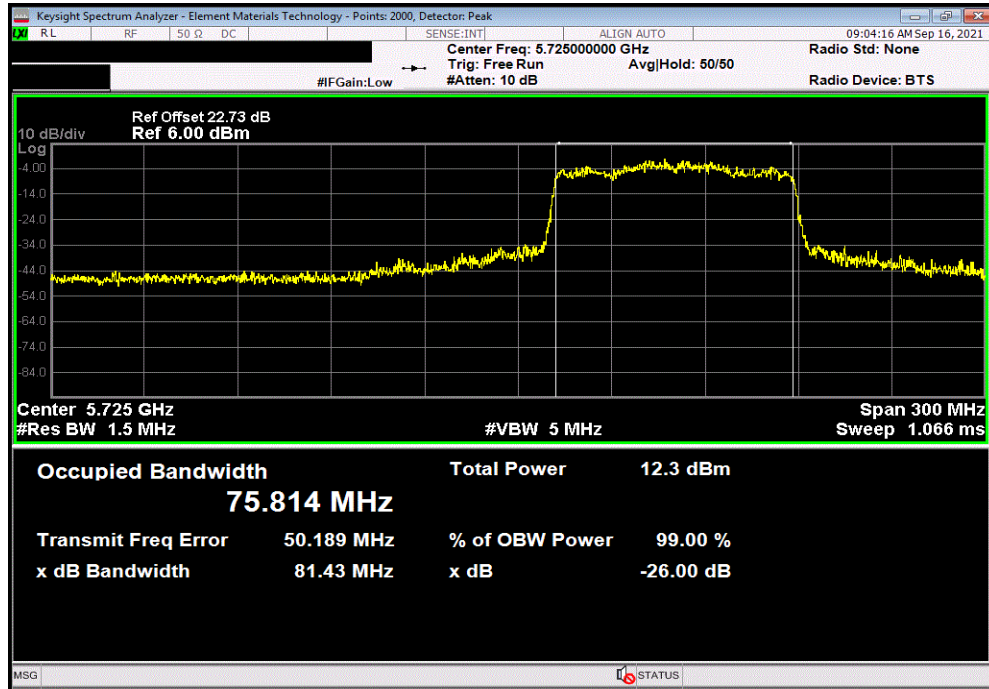


BAND EDGE - 5.8 GHz BAND



TbTx 2021.03.19.1 XMt 2020.12.30.0

5725 - 5850 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS9 (256-QAM)						
OBW			Band Edge		Result	
Within Band			(MHz)			
Yes			5725		Pass	



MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND



XMit 2020.12.30.0

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	2021-04-08	2022-04-08

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 C63.10:2013, Clause 12.3.2.3, 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 to:

- Span set to encompass the entire 99% OBW of the signal
- RBW = 1 MHz
- VBW = 3 MHz
- RMS Detector
- Trace average 100 traces in power averaging mode

The marker peak search function of the analyzer as used to determine 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 $10 \cdot \log(1/D)$ where D is the duty cycle.

The result is the peak power spectral density (PPSD).

MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND



TSTx 2021.03.19.1 XMR 2020.12.30.0

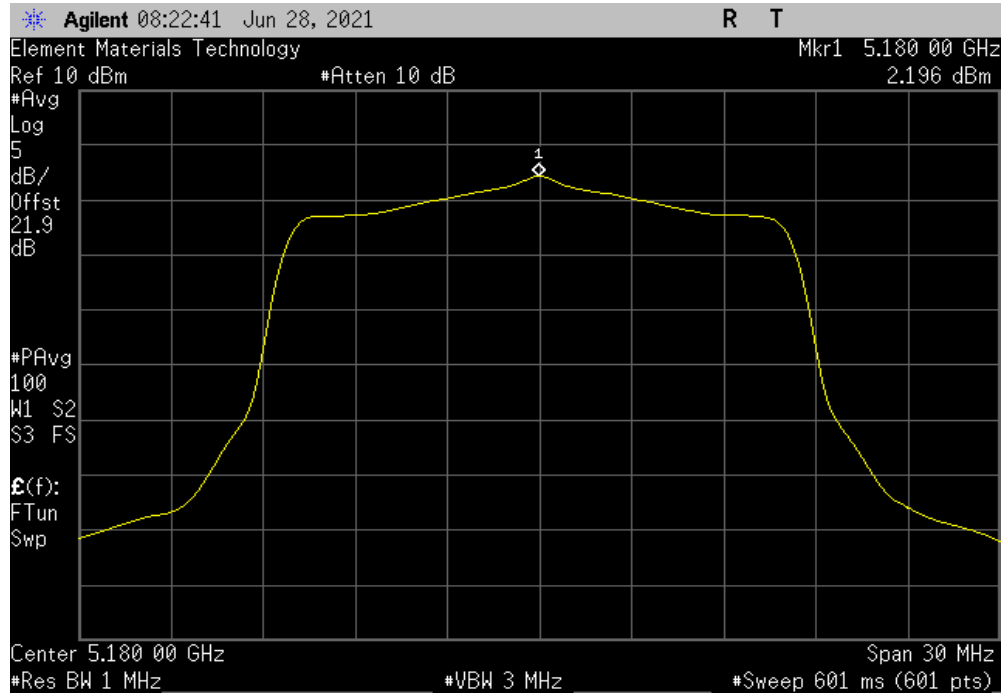
EUT: 43.0536.00				Work Order: A-DE0162		
Serial Number: SN001 00003				Date: 28-Jun-21		
Customer: A-dec, Inc.				Temperature: 25.1 °C		
Attendees: Zach Lyda				Humidity: 48.7% RH		
Project: None				Barometric Pres.: 1006 mbar		
Tested by: Jeff Alcoke		Power: 3.3 VDC via 110VAC/60Hz		Job Site: EV06		
TEST SPECIFICATIONS				Test Method		
FCC 15.407:2021				ANSI C63.10:2013		
COMMENTS						
Reference level offset: DC Block, 20 dB attenuator, and measurement cable.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	1	Signature 				
		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	2.196	0.1	2.3	11	Pass
	Ch 40, Mid Channel 5200 MHz	2.27	0.1	2.3	11	Pass
	Ch 48, High Channel 5240 MHz	2.348	0.1	2.4	11	Pass
802.11(a) 36 Mbps						
	Ch 36, Low Channel 5180 MHz	1.964	0.3	2.3	11	Pass
	Ch 40, Mid Channel 5200 MHz	2.007	0.3	2.3	11	Pass
	Ch 48, High Channel 5240 MHz	1.994	0.3	2.3	11	Pass
802.11(a) 54 Mbps						
	Ch 36, Low Channel 5180 MHz	2.059	0.5	2.5	11	Pass
	Ch 40, Mid Channel 5200 MHz	1.918	0.5	2.4	11	Pass
	Ch 48, High Channel 5240 MHz	1.977	0.5	2.4	11	Pass
802.11(n) MCS0						
	Ch 36, Low Channel 5180 MHz	1.949	0.1	2	11	Pass
	Ch 40, Mid Channel 5200 MHz	1.981	0.1	2	11	Pass
	Ch 48, High Channel 5240 MHz	2.08	0.1	2.2	11	Pass
802.11(n) MCS7						
	Ch 36, Low Channel 5180 MHz	1.503	0.5	2	11	Pass
	Ch 40, Mid Channel 5200 MHz	1.56	0.5	2.1	11	Pass
	Ch 48, High Channel 5240 MHz	1.571	0.5	2.1	11	Pass
802.11(ac) MCS8 (256-QAM)						
	Ch 36, Low Channel 5180 MHz	-0.791	0.5	-0.3	11	Pass
	Ch 40, Mid Channel 5200 MHz	-1.13	0.5	-0.6	11	Pass
	Ch 48, High Channel 5240 MHz	-1.084	0.5	-0.5	11	Pass
40 MHz						
802.11(n) MCS0						
	Ch 36/40, Low Channel 5190 MHz	-4.418	0.1	-4.3	11	Pass
	Ch 44/48, High Channel 5230 MHz	-4.254	0.1	-4.1	11	Pass
802.11(n) MCS7						
	Ch 36/40, Low Channel 5190 MHz	-5.107	0.7	-4.4	11	Pass
	Ch 44/48, High Channel 5230 MHz	-4.932	0.7	-4.2	11	Pass
802.11(ac) MCS9 (256-QAM)						
	Ch 36/40, Low Channel 5190 MHz	-4.16	0.8	-3.4	11	Pass
	Ch 44/48, High Channel 5230 MHz	-4.47	0.8	-3.7	11	Pass
80 MHz						
802.11(ac) MCS0						
	Ch 36-48, Low Channel 5210 MHz	-5.515	0.2	-5.3	11	Pass
802.11(ac) MCS9 (256-QAM)						
	Ch 36-48, Low Channel 5210 MHz	-6.234	1.1	-5.2	11	Pass

MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

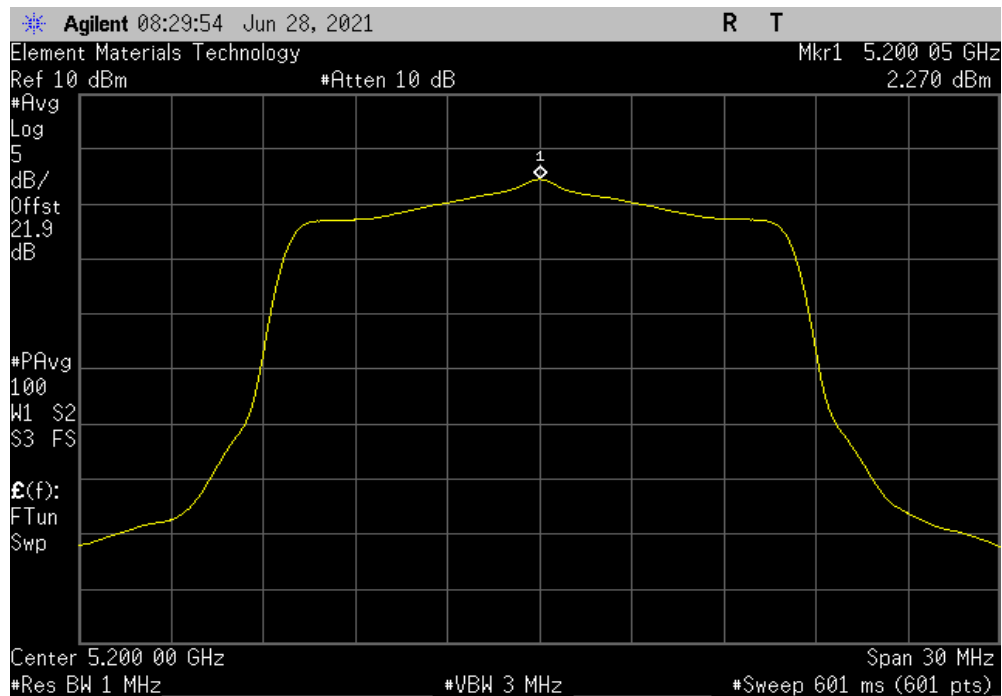


TbTx 2021.03.19.1 XMR 2020.12.30.0

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		
2.196	0.1	2.3	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		
2.27	0.1	2.3	11	Pass		

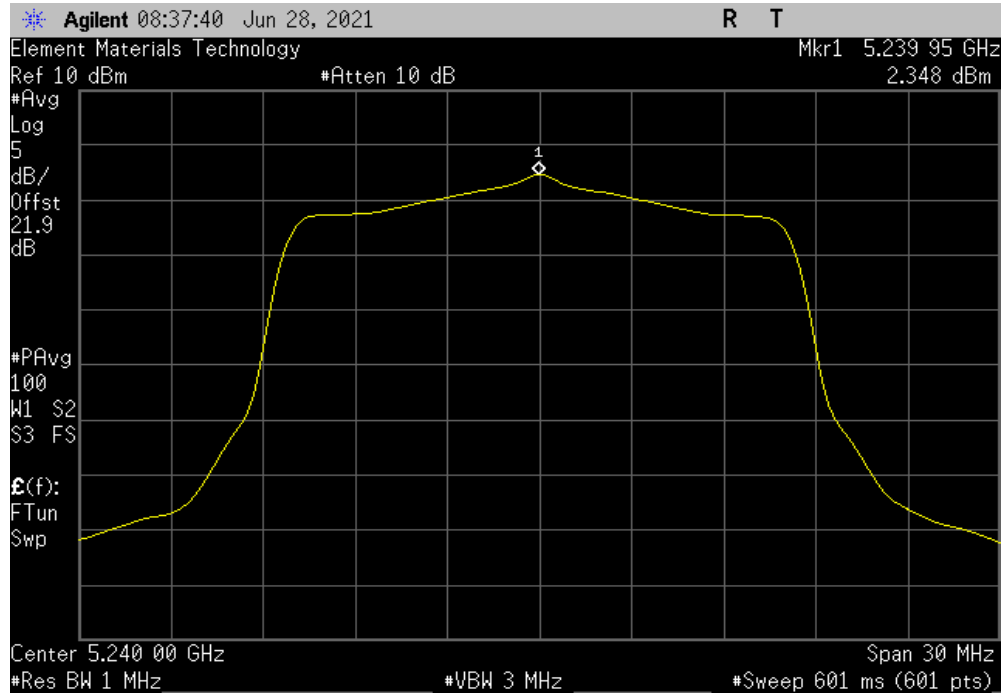


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

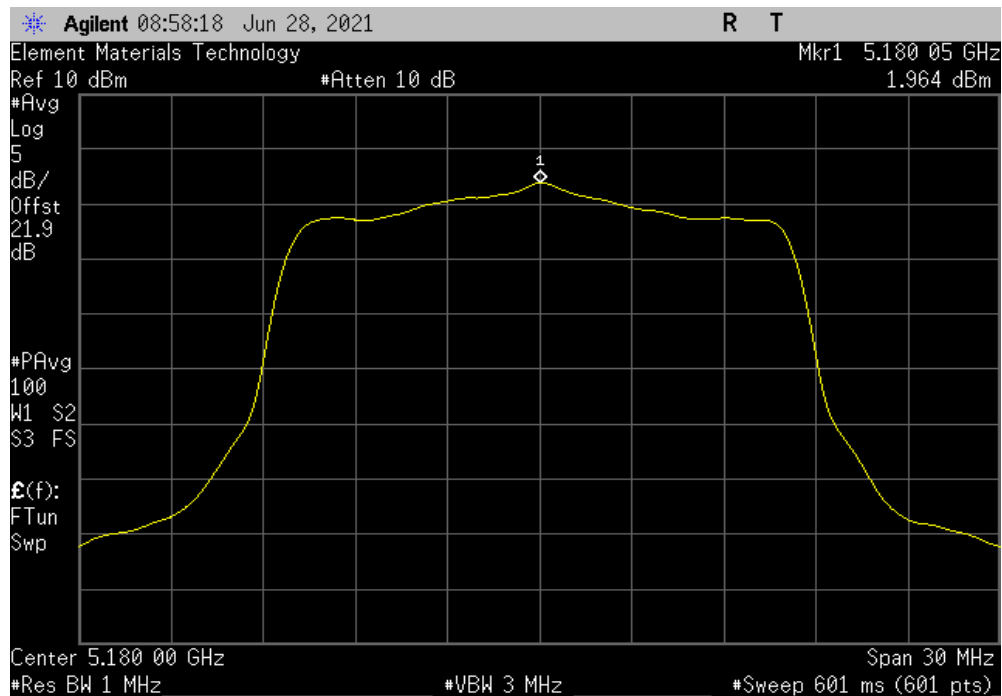


TbTx 2021.03.19.1 XMR 2020.12.30.0

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		
2.348	0.1	2.4	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		
1.964	0.3	2.3	11	Pass		

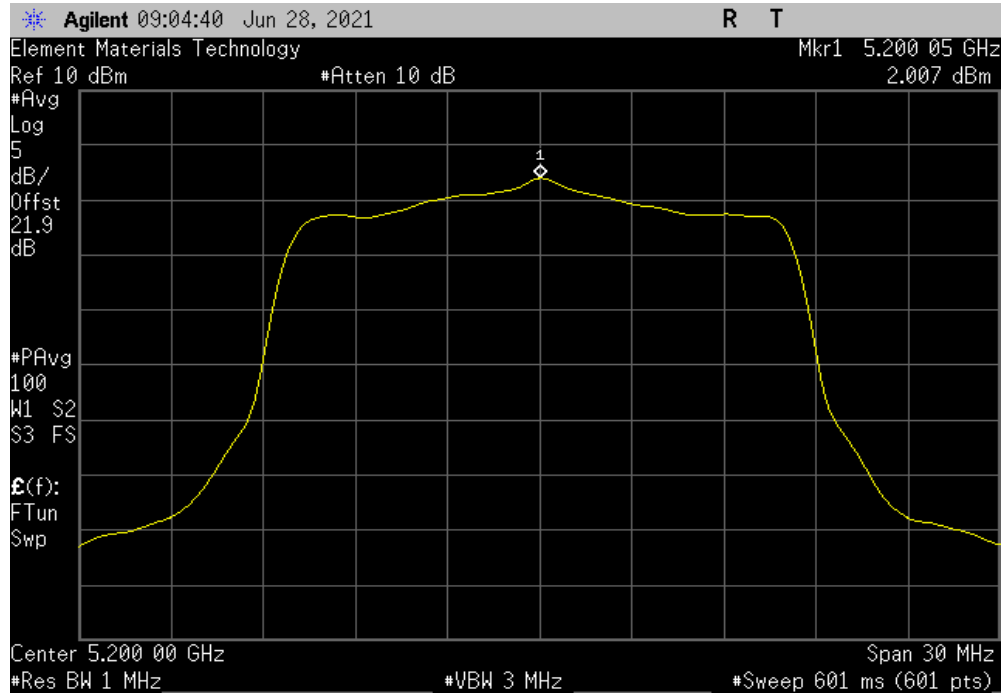


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

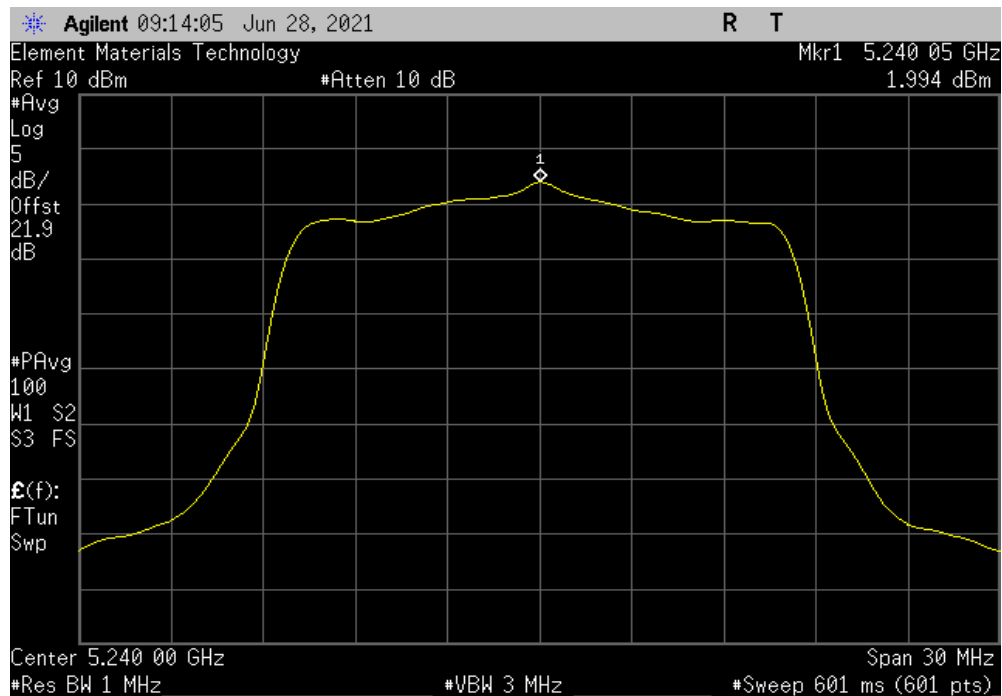


TUTx 2021.03.19.1 XMR 2020.12.30.0

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		
2.007	0.3	2.3	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		
1.994	0.3	2.3	11	Pass		

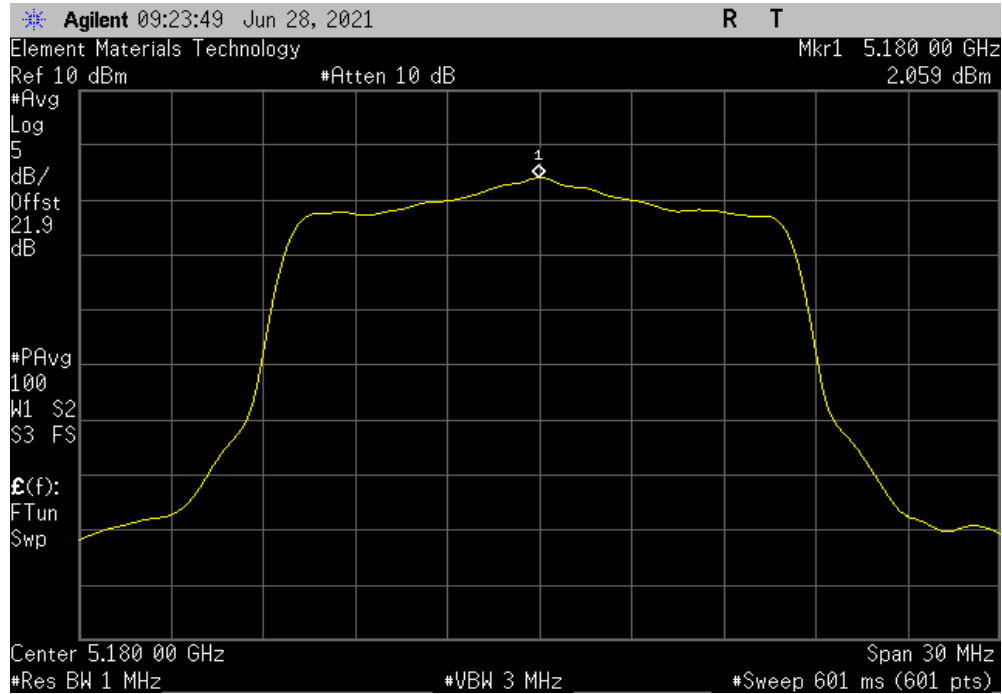


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

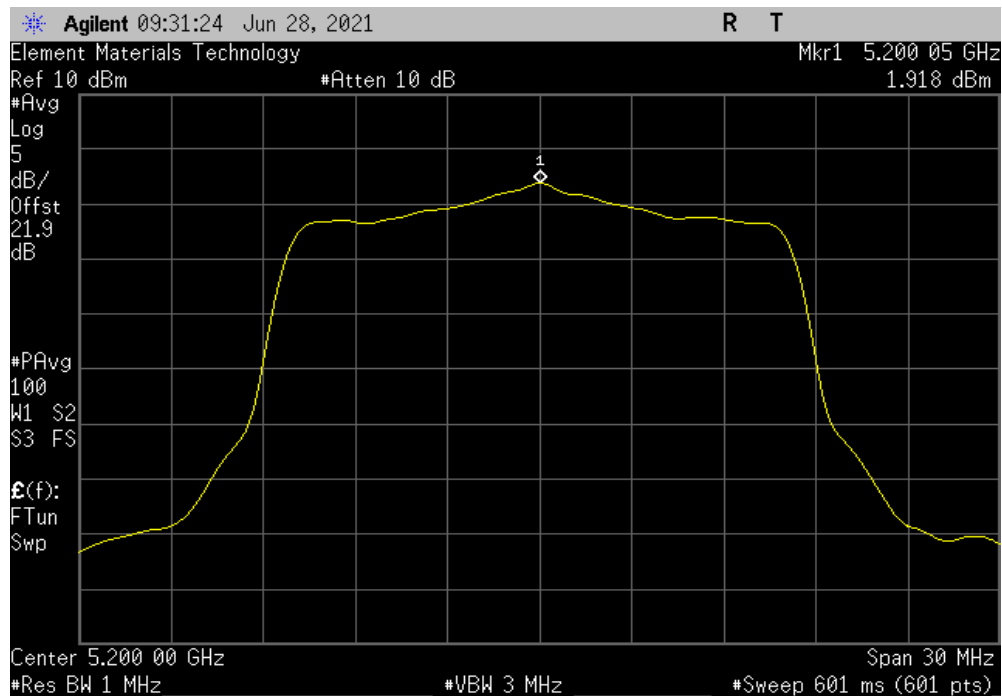


TbTx 2021.03.19.1 XMR 2020.12.30.0

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		
2.059	0.5	2.5	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		
1.918	0.5	2.4	11	Pass		

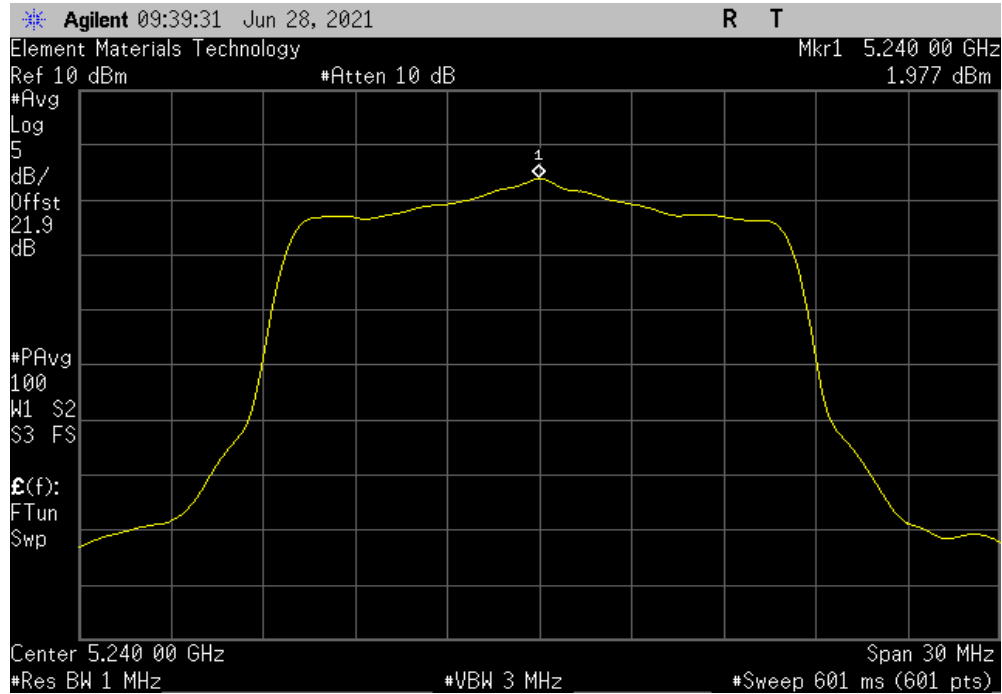


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

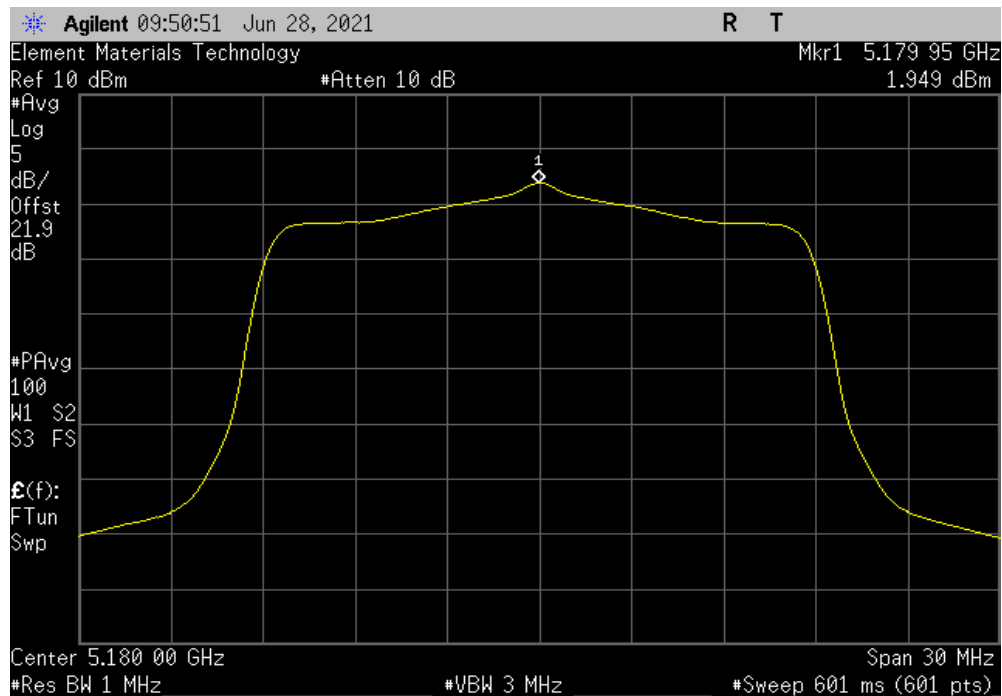


TMTx 2021.03.10.1 XMR 2020.12.30.0

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		
1.977	0.5	2.4	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		
1.949	0.1	2	11	Pass		

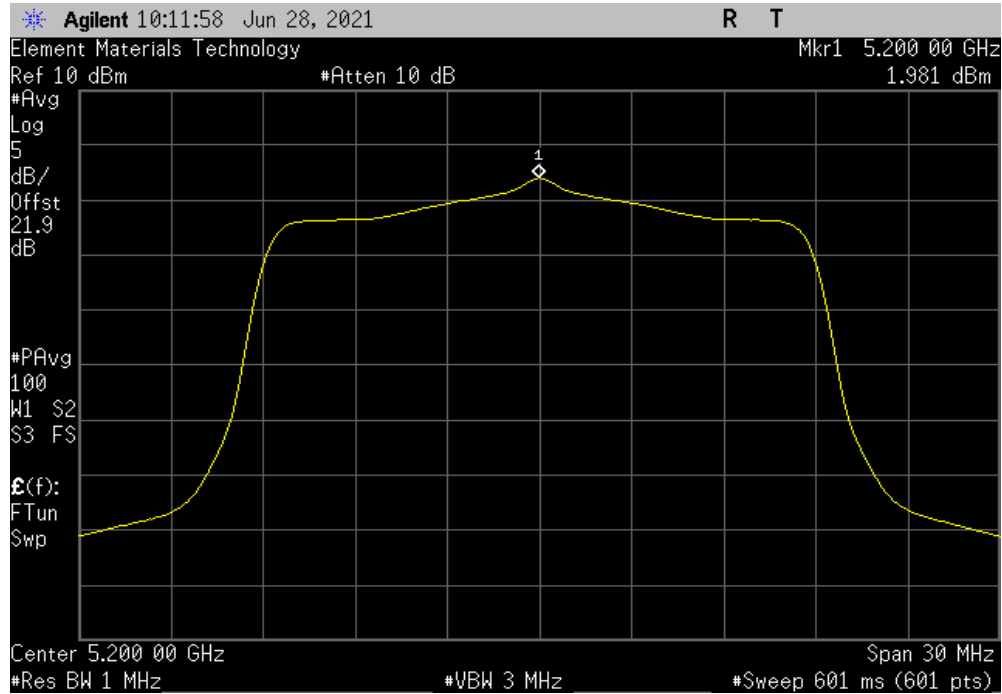


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

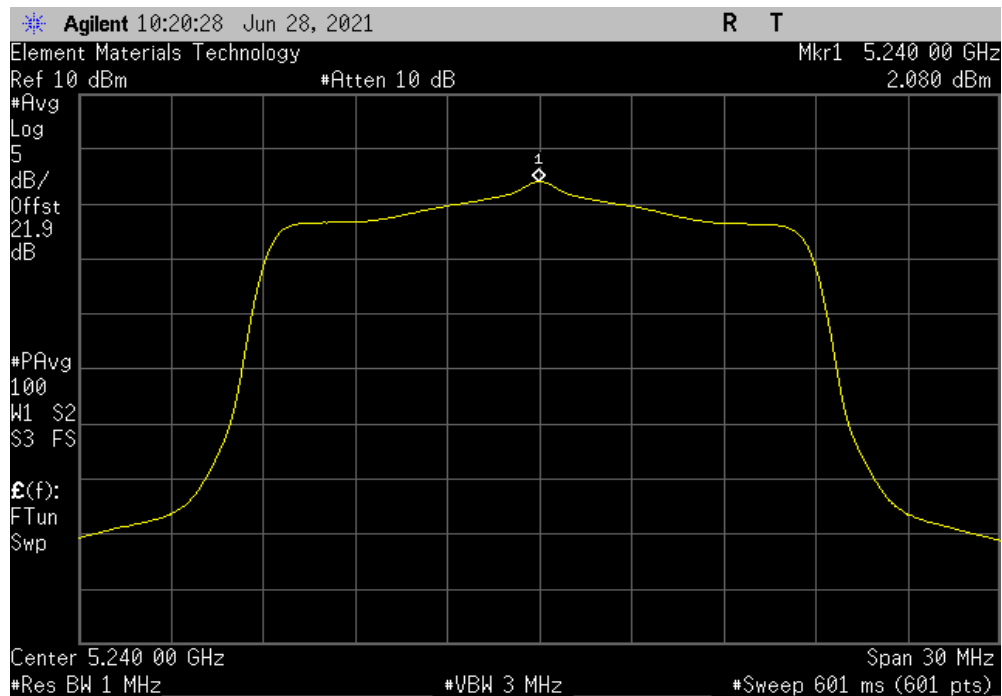


TbTx 2021.03.19.1 XMR 2020.12.30.0

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		
1.981	0.1	2	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		
2.08	0.1	2.2	11	Pass		

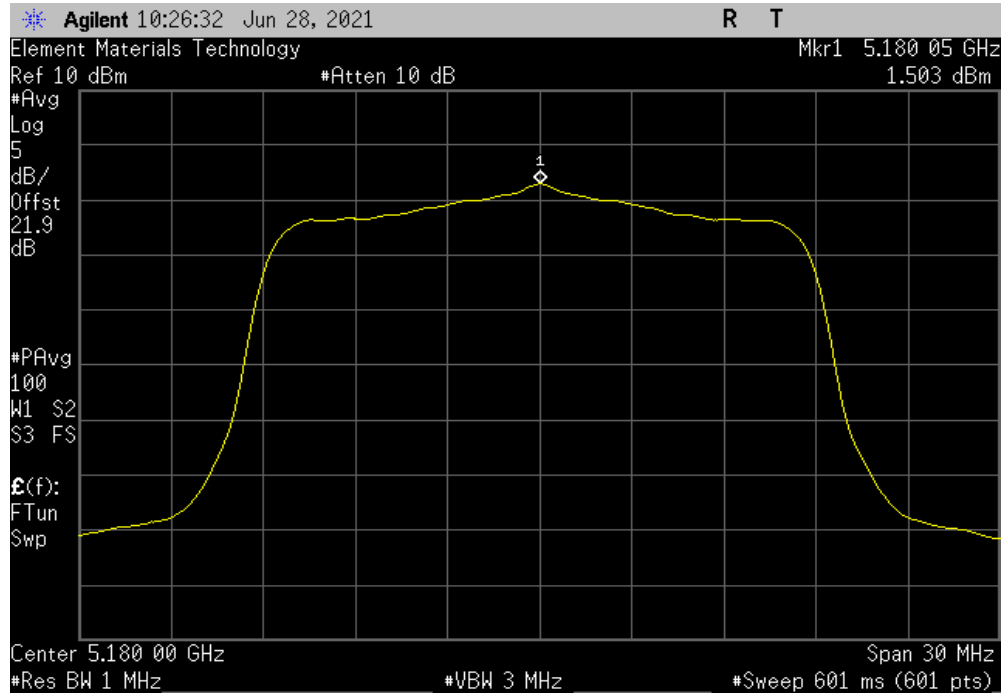


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

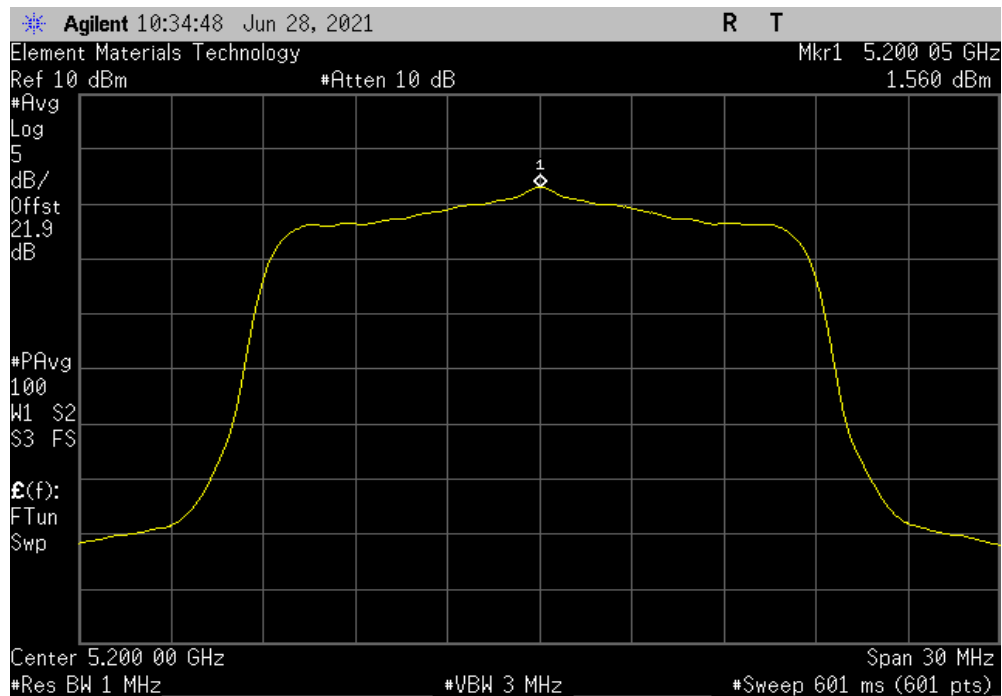


TMTx 2021.03.19.1 XMR 2020.12.30.0

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		
1.503	0.5	2	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		
1.56	0.5	2.1	11	Pass		

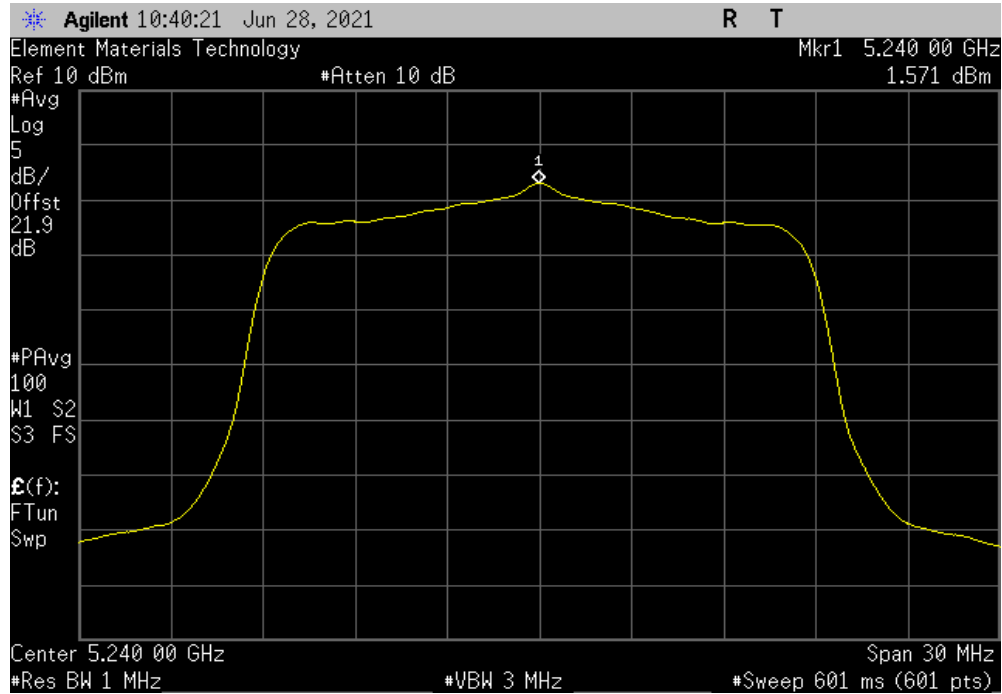


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

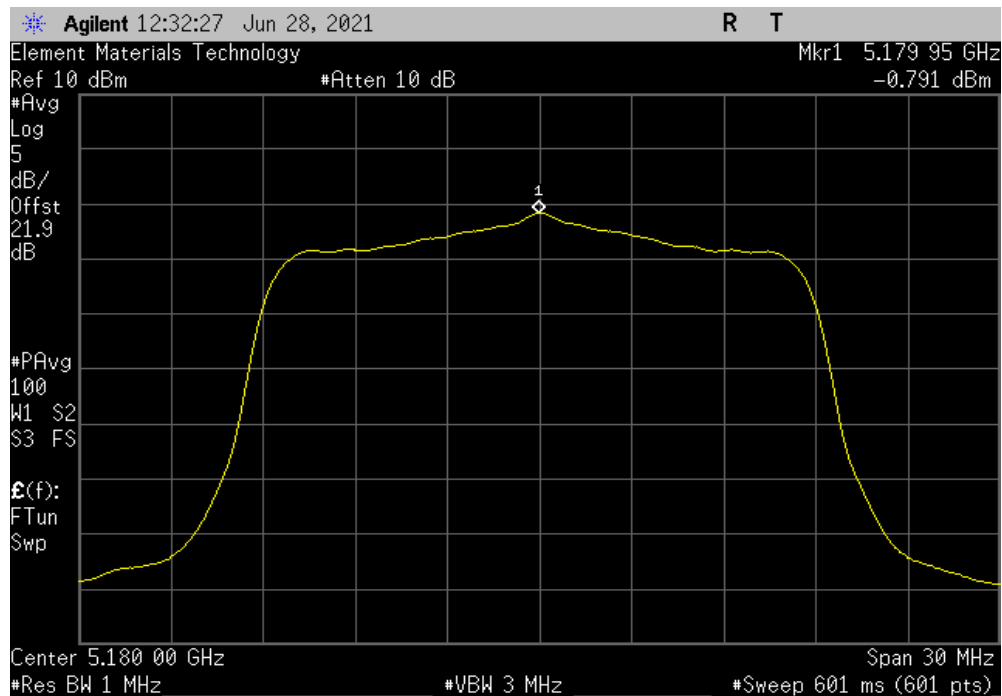


TMTx 2021.03.10.1 XMR 2020.12.30.0

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		
1.571	0.5	2.1	11	Pass		



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 36, Low Channel 5180 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-0.791	0.5	-0.3	11	Pass		

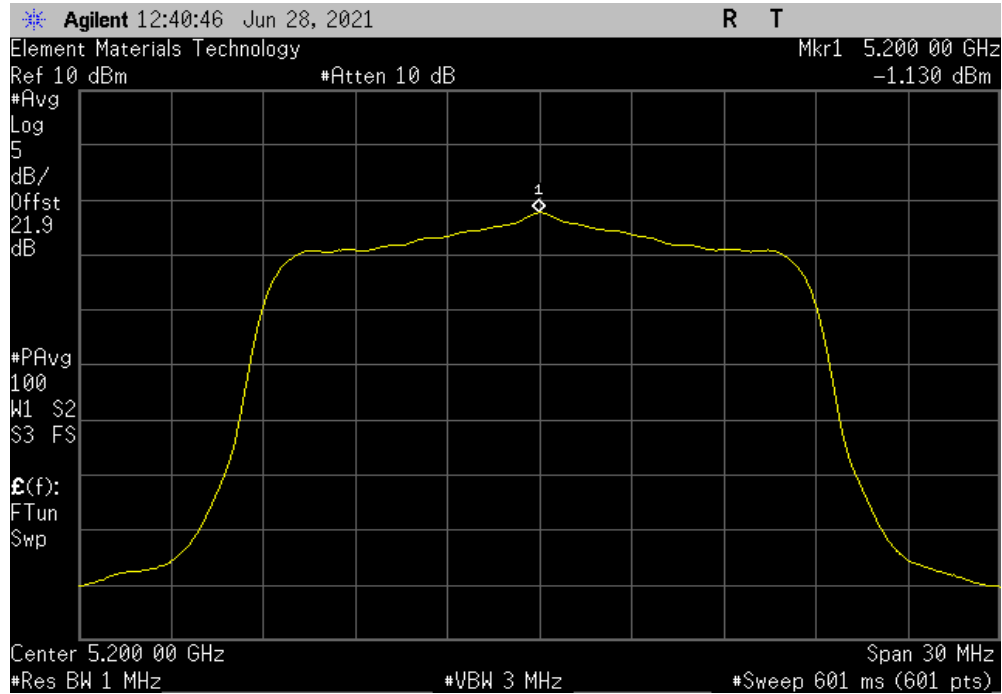


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

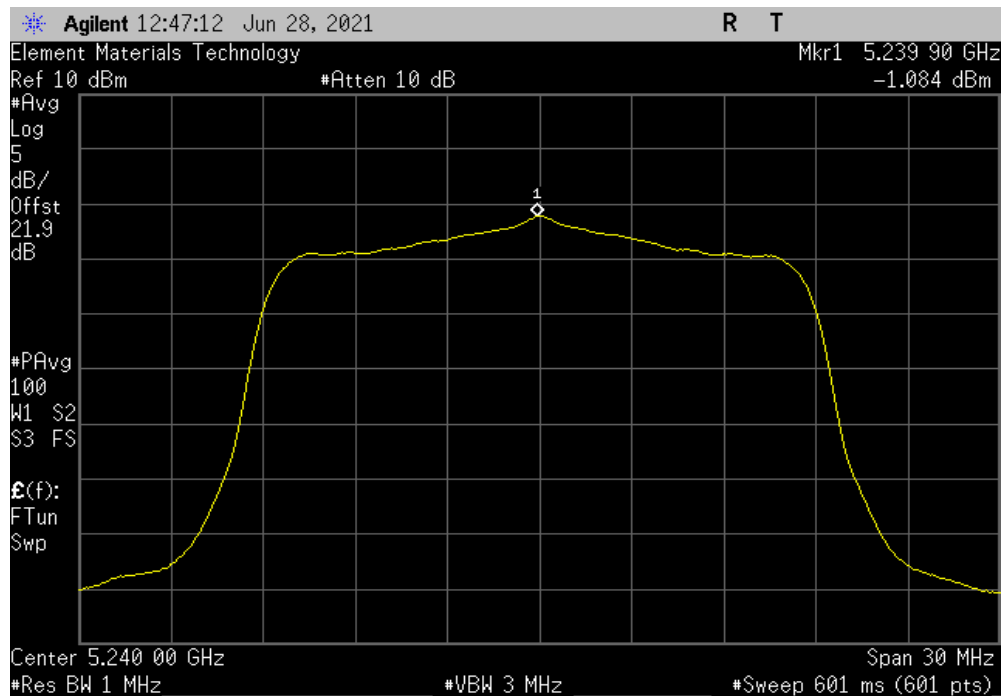


TbTx 2021.03.19.1 XM8 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 40, Mid Channel 5200 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-1.13	0.5	-0.6	11	Pass		



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 48, High Channel 5240 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-1.084	0.5	-0.5	11	Pass		

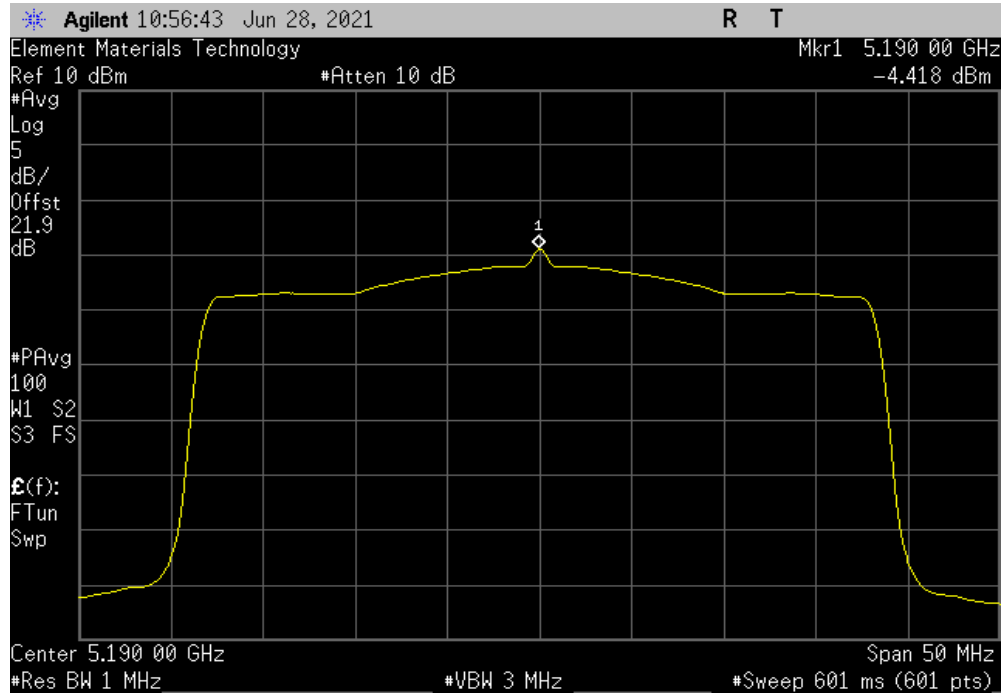


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

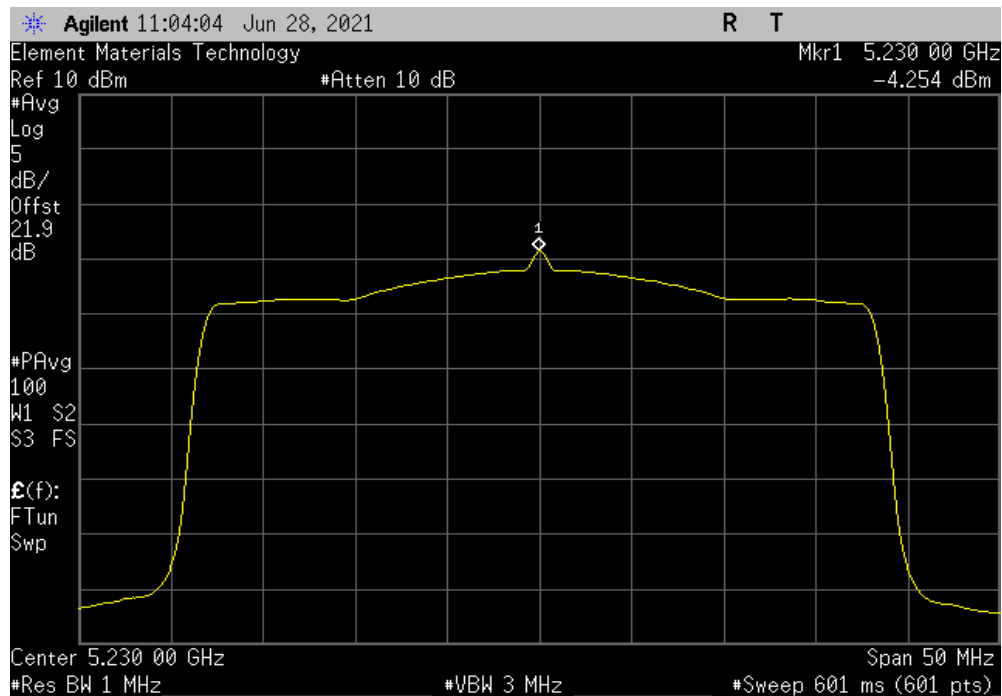


TMTx 2021.03.19.1 XMR 2020.12.30.0

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		
-4.418	0.1	-4.3	11	Pass		



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		
-4.254	0.1	-4.1	11	Pass		

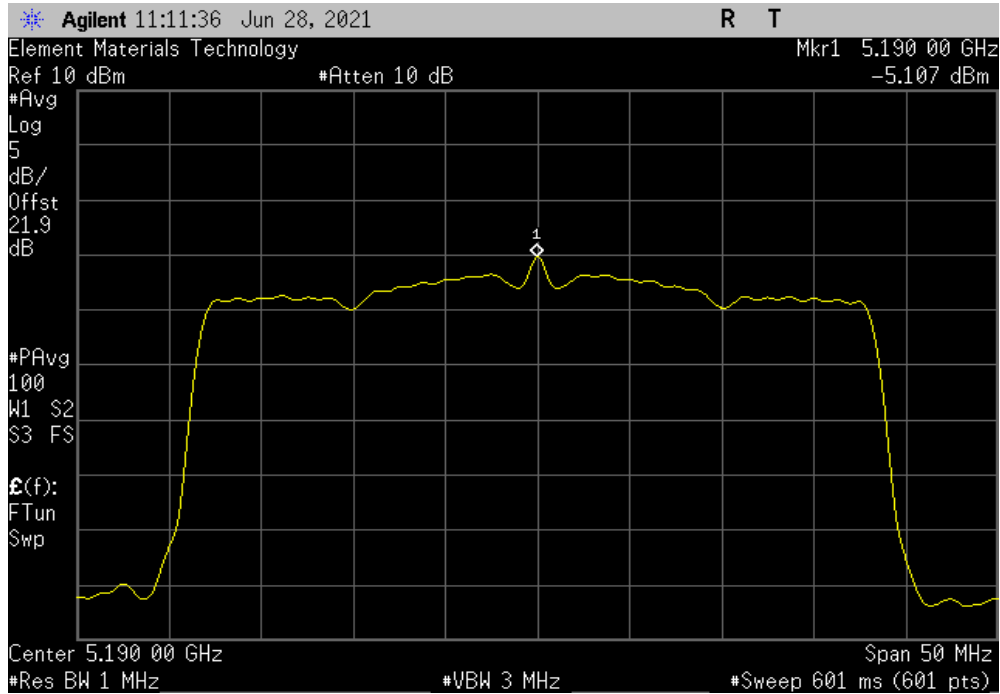


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

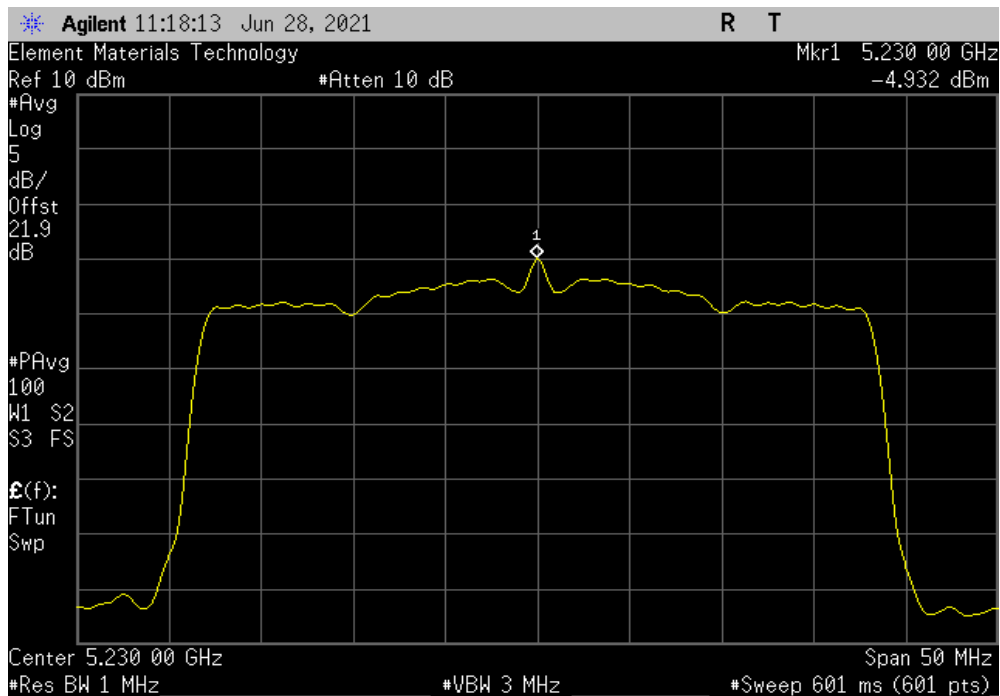


TMTx 2021.03.19.1 XMR 2020.12.30.0

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		
-5.107	0.7	-4.4	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		
-4.932	0.7	-4.2	11	Pass		

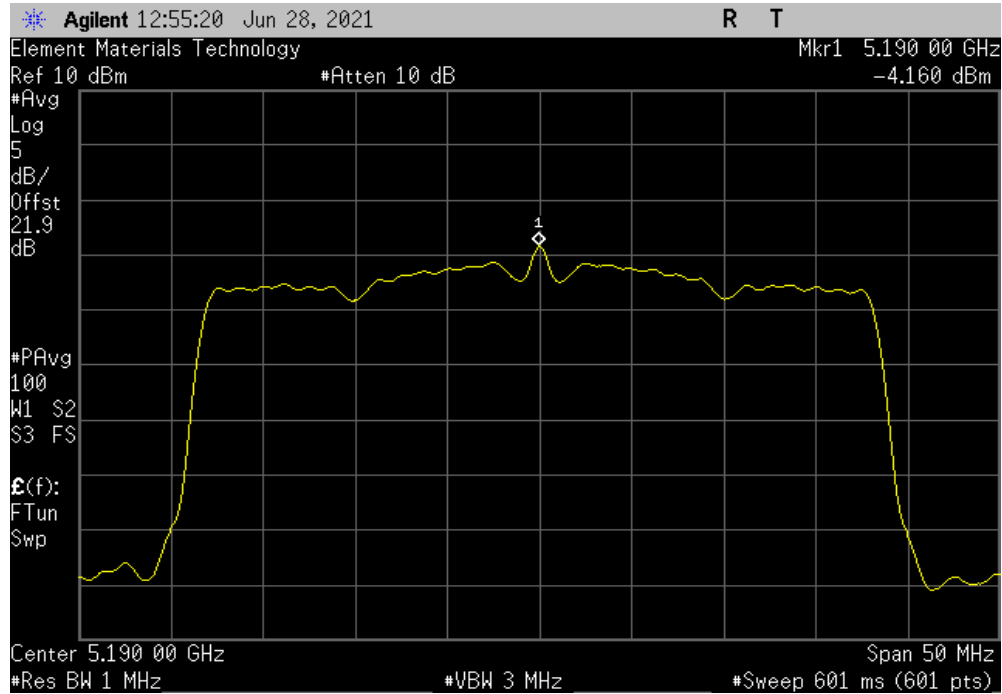


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND

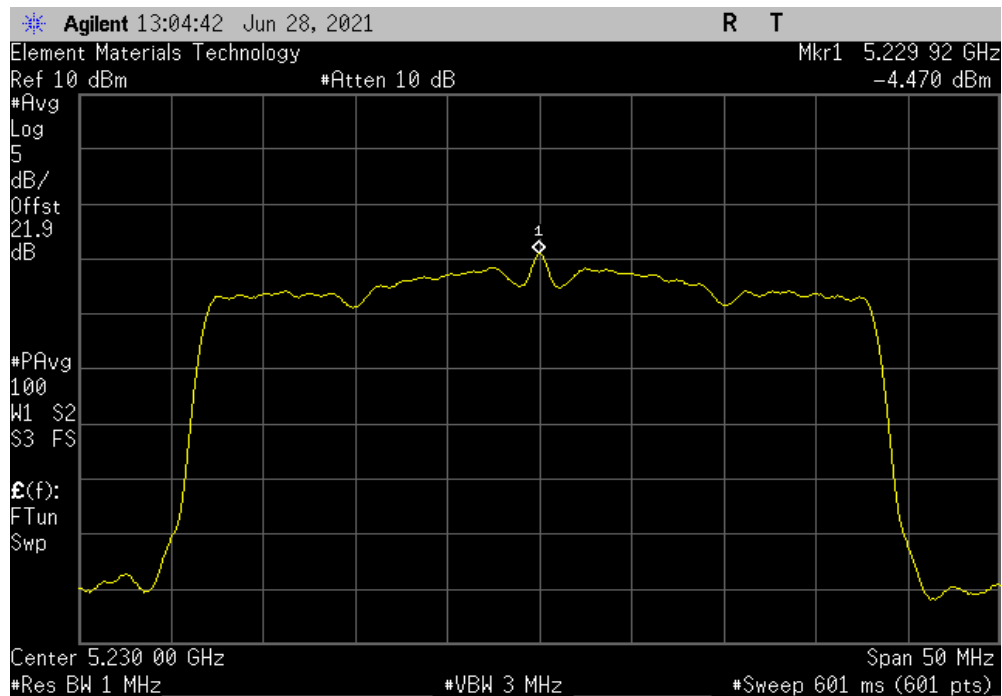


TbTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36/40, Low Channel 5190 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-4.16	0.8	-3.4	11	Pass		



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 44/48, High Channel 5230 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-4.47	0.8	-3.7	11	Pass		

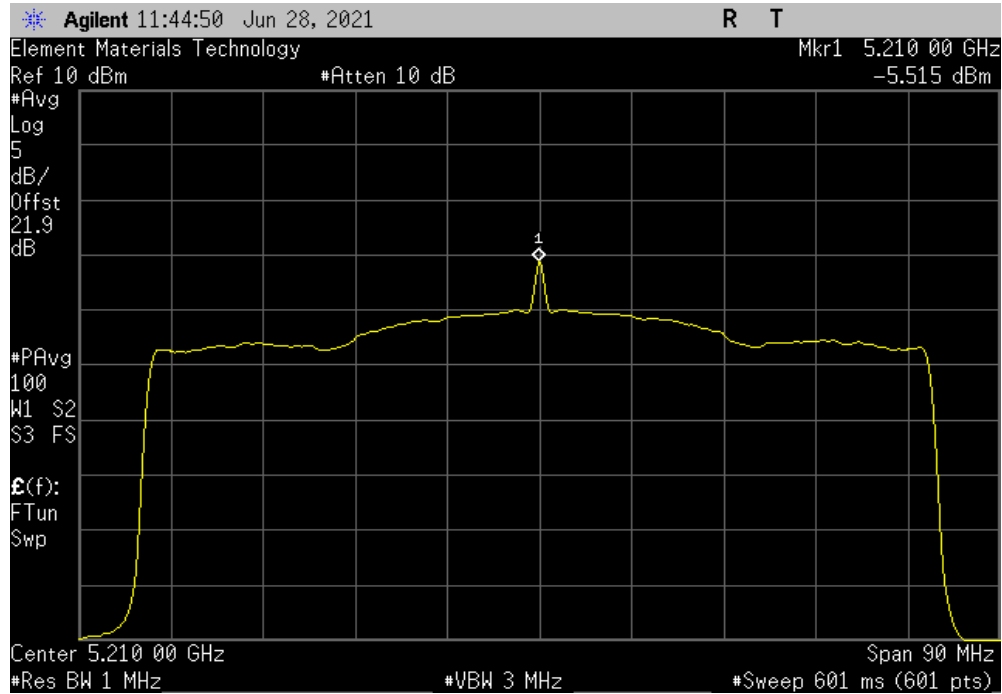


MAXIMUM POWER SPECTRAL DENSITY - 5.2 GHz BAND



TbTx 2021.03.10.1 XMR 2020.12.30.0

80 MHz, 802.11(ac) MCS0, Ch 36-48, Low Channel 5210 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-5.515	0.2	-5.3	11	Pass		



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36-48, Low Channel 5210 MHz						
Power (dBm/Ref BW)	Duty Cycle Factor (dB)	Density (dBm/Ref BW)	Limit ≤ (dBm/Ref BW)	Results		
-6.234	1.1	-5.2	11	Pass		

