

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 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 measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

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

The maximum conducted output power was measured using ANSI C63.10:2013, Clause 12.3.2.4, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

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

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

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

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi).

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND



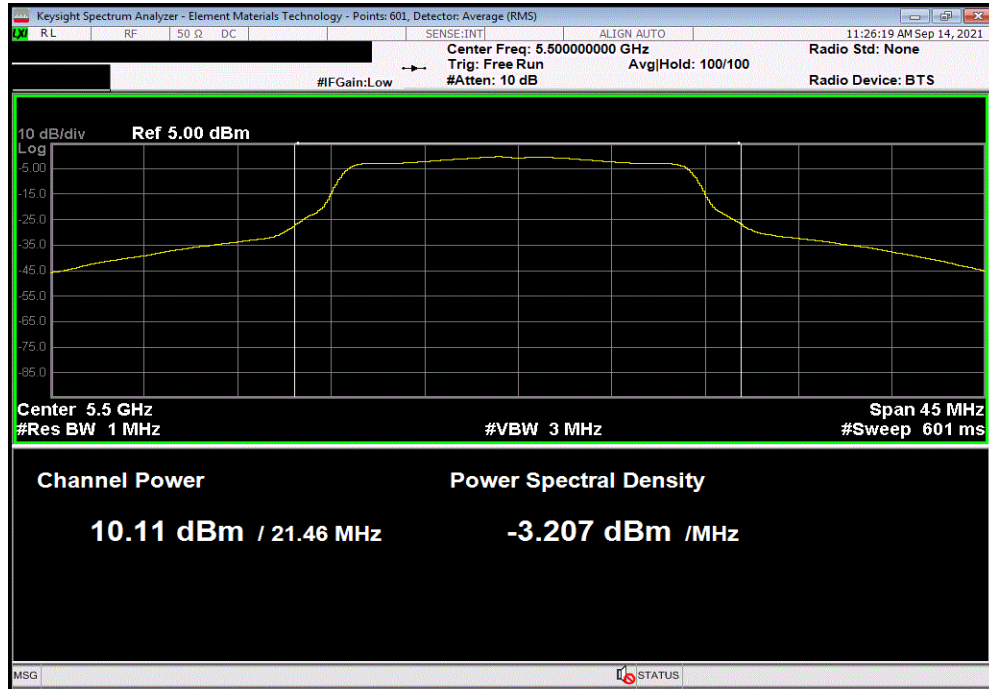
EUT: 43.0536.00				Work Order: A-DE0170				
Serial Number: SN001 00001				Date: 14-Sep-21				
Customer: A-dec, Inc.				Temperature: 23 °C				
Attendees: Ben Meadows				Humidity: 42.7% RH				
Project: None				Barometric Pres.: 1021 mbar				
Tested by: Jeff Alcoke		Power: 3.3 VDC		Job Site: EV06				
TEST 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						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5470 - 5725 MHz Band								
802.11(a) No HT								
Low Channel, Ch 100 - 5500 MHz								
	6 Mbps	10.109	0.1	10.2	5.2	25.6	30	Pass
	36 Mbps	9.855	0.3	10.2	5.2	25.6	30	Pass
	54 Mbps	9.798	0.5	10.3	5.2	25.8	30	Pass
Mid Channel, Ch 116 - 5580 MHz								
	6 Mbps	9.978	0.1	10	5.2	25.3	30	Pass
	36 Mbps	9.616	0.3	9.9	5.2	25.0	30	Pass
	54 Mbps	9.521	0.5	10	5.2	25.2	30	Pass
High Channel, Ch 140 - 5700 MHz								
	6 Mbps	9.944	0.1	10	5.2	25.2	30	Pass
	36 Mbps	9.639	0.3	10	5.2	25.1	30	Pass
	54 Mbps	9.505	0.5	10	5.2	25.2	30	Pass
802.11(n/ac) VHT20								
Low Channel, Ch 100 - 5500 MHz								
	MCS0	9.937	0.1	10	5.2	25.2	30	Pass
	MCS7	9.601	0.5	10.1	5.2	25.4	30	Pass
	MCS8 (256-QAM)	6.967	0.6	7.5	5.2	20.3	30	Pass
Mid Channel, Ch 116 - 5580 MHz								
	MCS0	9.802	0.1	9.9	5.2	25.0	30	Pass
	MCS7	9.363	0.5	9.9	5.2	25.0	30	Pass
	MCS8 (256-QAM)	6.506	0.6	7.1	5.2	19.4	30	Pass
High Channel, Ch 140 - 5700 MHz								
	MCS0	9.655	0.1	9.7	5.2	24.7	30	Pass
	MCS7	9.295	0.5	9.8	5.2	24.8	30	Pass
	MCS8 (256-QAM)	6.561	0.5	7.1	5.2	19.4	30	Pass
802.11(n/ac) VHT40								
Low Channel, Ch 100/104 - 5510 MHz								
	MCS0	5.85	0.1	6	5.2	17.2	30	Pass
	MCS7	5.127	0.7	5.8	5.2	16.8	30	Pass
	MCS9 (256-QAM)	5.927	0.8	6.8	5.2	18.7	30	Pass
Mid Channel, Ch 108/112 - 5550 MHz								
	MCS0	5.927	0.1	6.1	5.2	17.3	30	Pass
	MCS7	5.21	0.7	5.9	5.2	17.0	30	Pass
	MCS9 (256-QAM)	5.96	0.9	6.8	5.2	18.9	30	Pass
High Channel, Ch 132/136 - 5670 MHz								
	MCS0	5.818	0.1	5.9	5.2	17.0	30	Pass
	MCS7	4.929	0.7	5.7	5.2	16.5	30	Pass
	MCS9 (256-QAM)	5.913	0.8	6.7	5.2	18.6	30	Pass
802.11(n/ac) VHT80								
Low Channel, Ch 100-112 - 5530 MHz								
	MCS0	4.622	0.2	4.9	5.2	14.9	30	Pass
	MCS9 (256-QAM)	3.787	1.1	4.9	5.2	15.0	30	Pass
High Channel, Ch 116-128 - 5610 MHz								
	MCS0	4.561	0.2	4.8	5.2	14.8	30	Pass
	MCS9 (256-QAM)	3.636	1.1	4.7	5.2	14.6	30	Pass

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

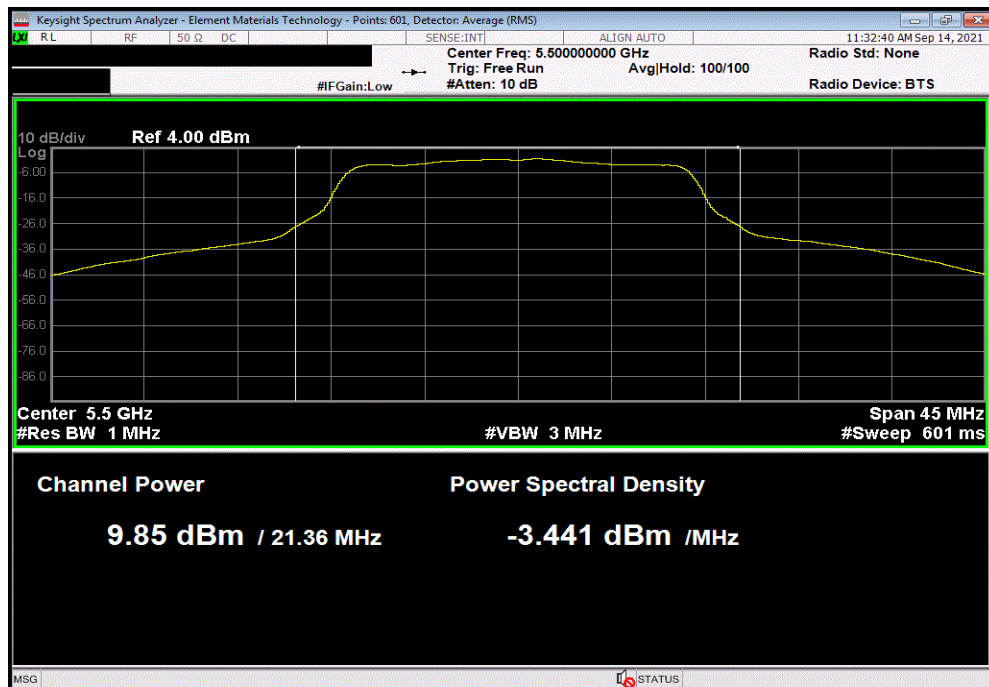


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(a) No HT, Low Channel, Ch 100 - 5500 MHz, 6 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.109	0.1	10.2	5.2	25.6	30	Pass



5470 - 5725 MHz Band, 802.11(a) No HT, Low Channel, Ch 100 - 5500 MHz, 36 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.855	0.3	10.2	5.2	25.6	30	Pass

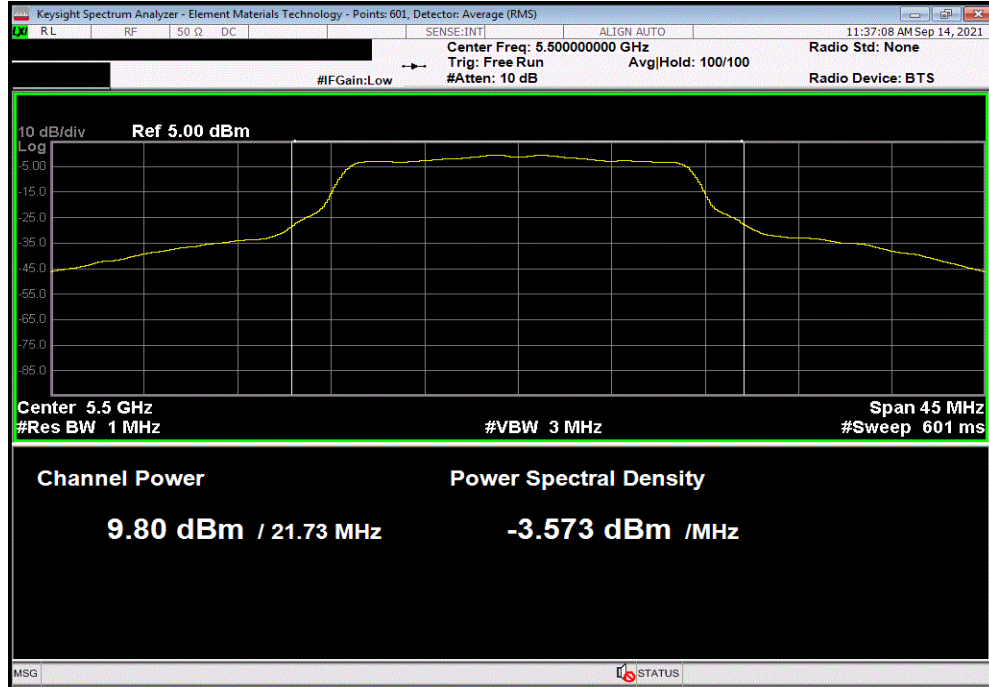


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

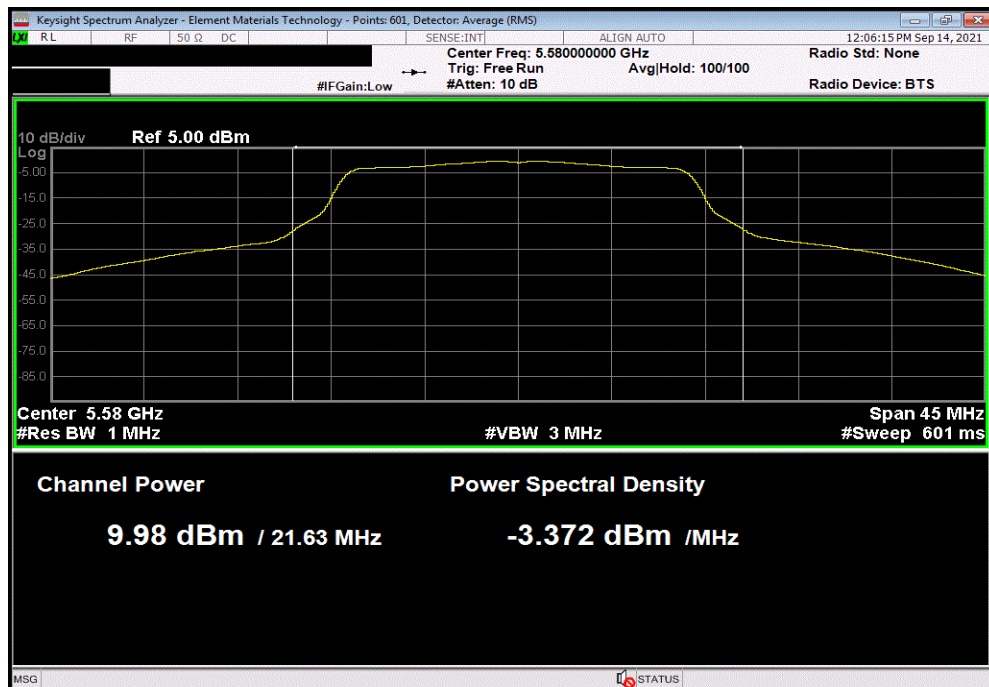


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(a) No HT, Low Channel, Ch 100 - 5500 MHz, 54 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.798	0.5	10.3	5.2	25.8	30	Pass



5470 - 5725 MHz Band, 802.11(a) No HT, Mid Channel, Ch 116 - 5580 MHz, 6 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.978	0.1	10	5.2	25.3	30	Pass

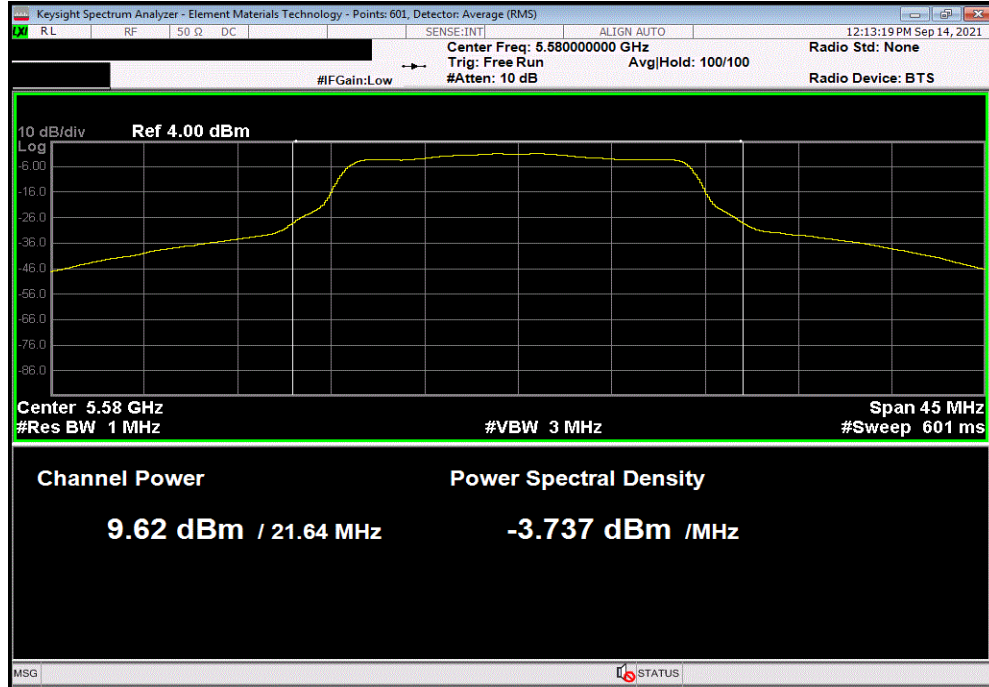


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

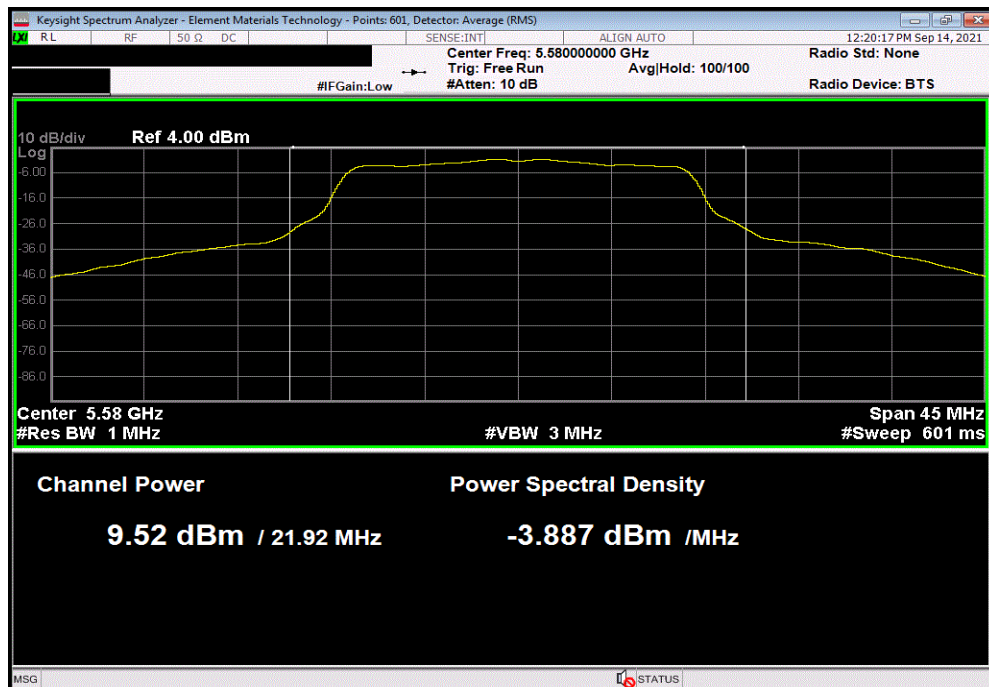


TbTx 2021.03.19.1 XM8 2020.12.30.0

5470 - 5725 MHz Band, 802.11(a) No HT, Mid Channel, Ch 116 - 5580 MHz, 36 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.616	0.3	9.9	5.2	25.0	30	Pass



5470 - 5725 MHz Band, 802.11(a) No HT, Mid Channel, Ch 116 - 5580 MHz, 54 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.521	0.5	10	5.2	25.2	30	Pass

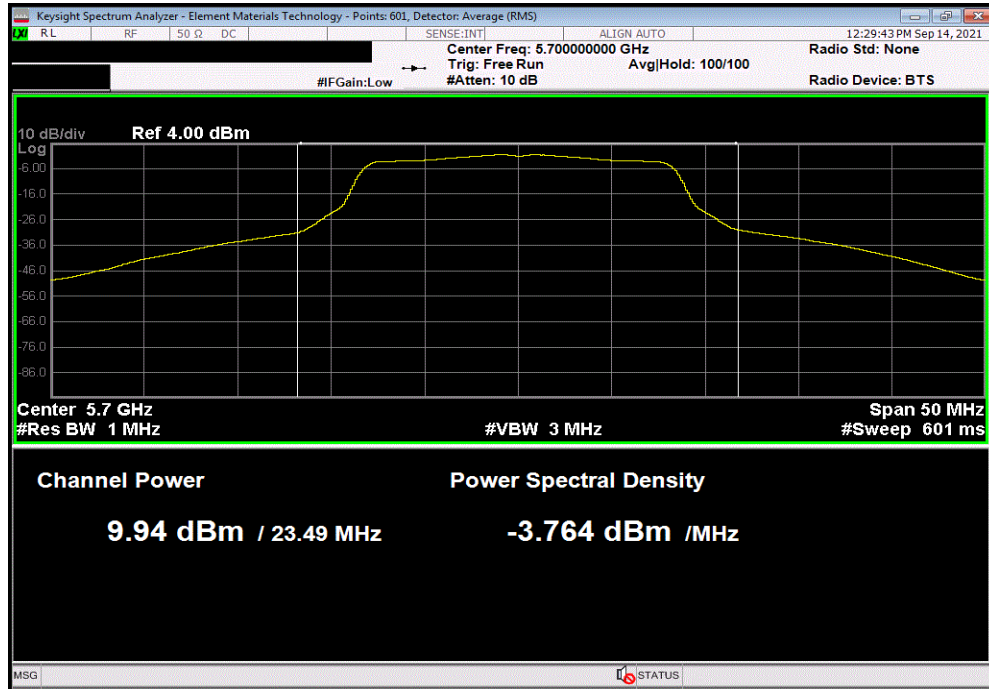


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

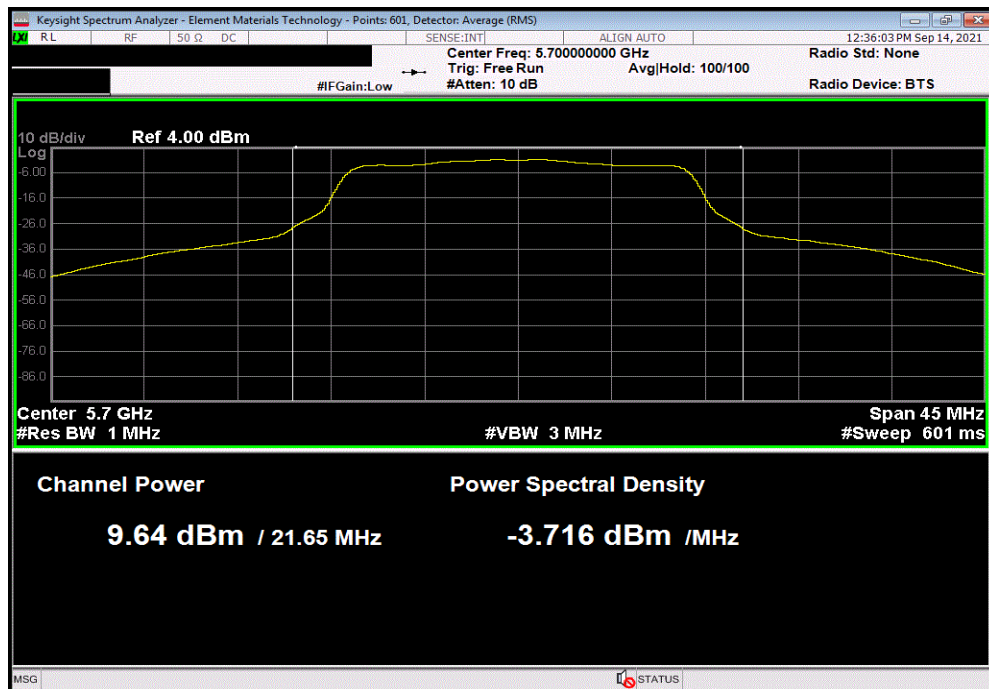


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(a) No HT, High Channel, Ch 140 - 5700 MHz, 6 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.944	0.1	10	5.2	25.2	30	Pass



5470 - 5725 MHz Band, 802.11(a) No HT, High Channel, Ch 140 - 5700 MHz, 36 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.639	0.3	10	5.2	25.1	30	Pass

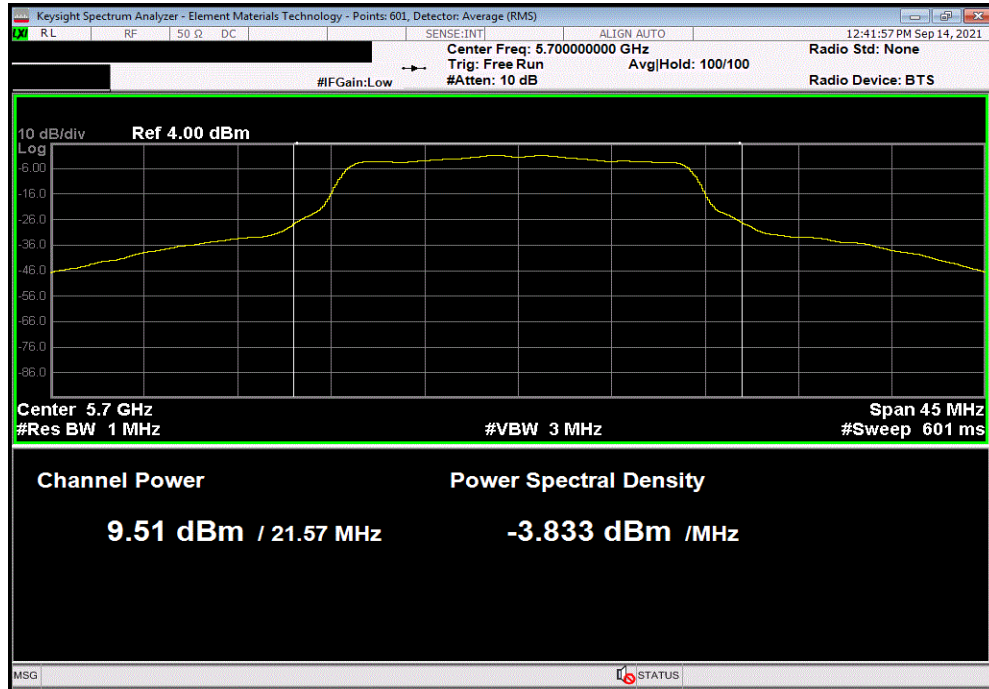


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

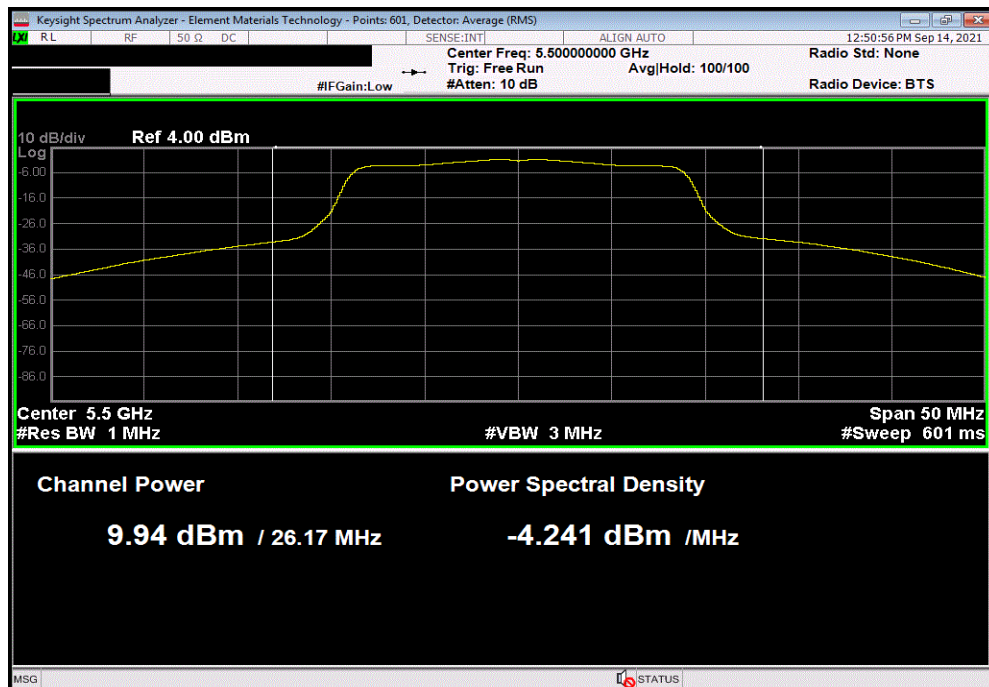


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(a) No HT, High Channel, Ch 140 - 5700 MHz, 54 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.505	0.5	10	5.2	25.2	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 100 - 5500 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.937	0.1	10	5.2	25.2	30	Pass

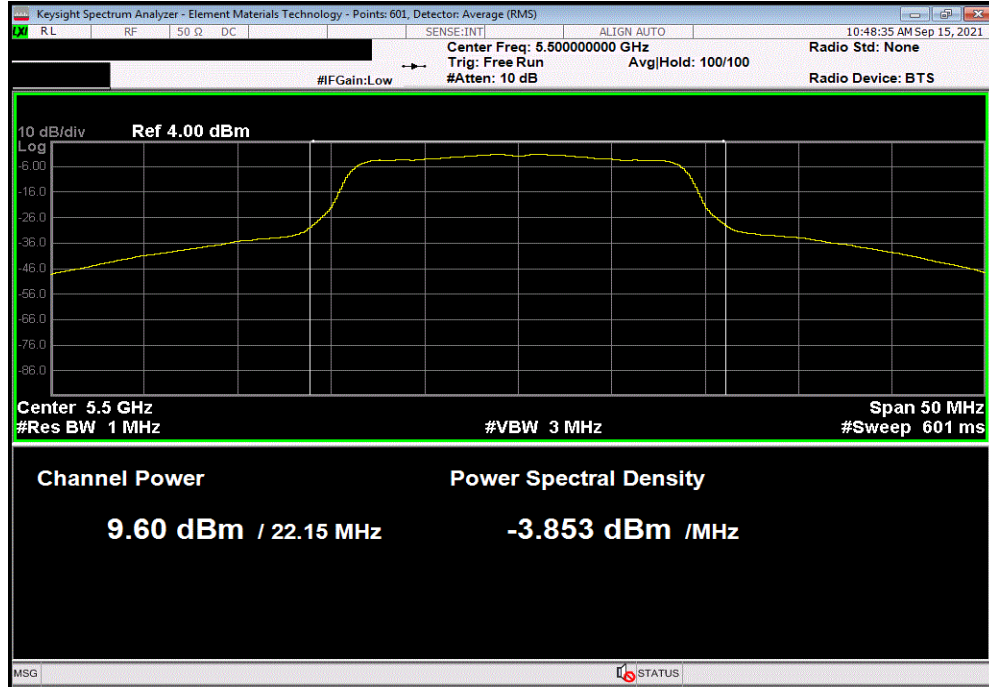


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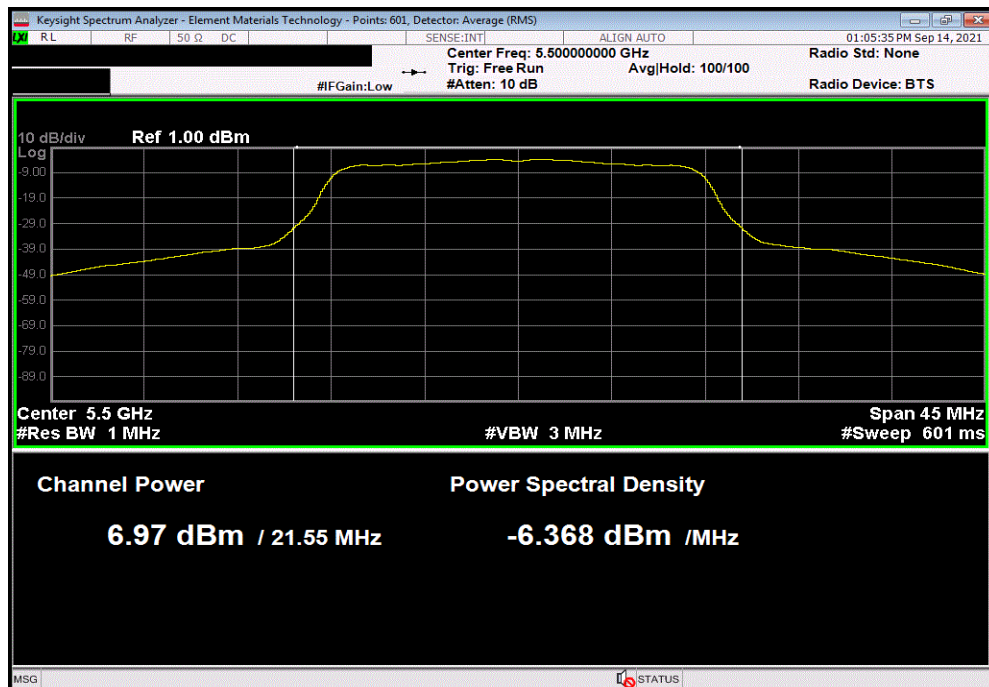


TbTx 2021.03.19.1 XM8 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 100 - 5500 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.601	0.5	10.1	5.2	25.4	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 100 - 5500 MHz, MCS8 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.967	0.6	7.5	5.2	20.3	30	Pass

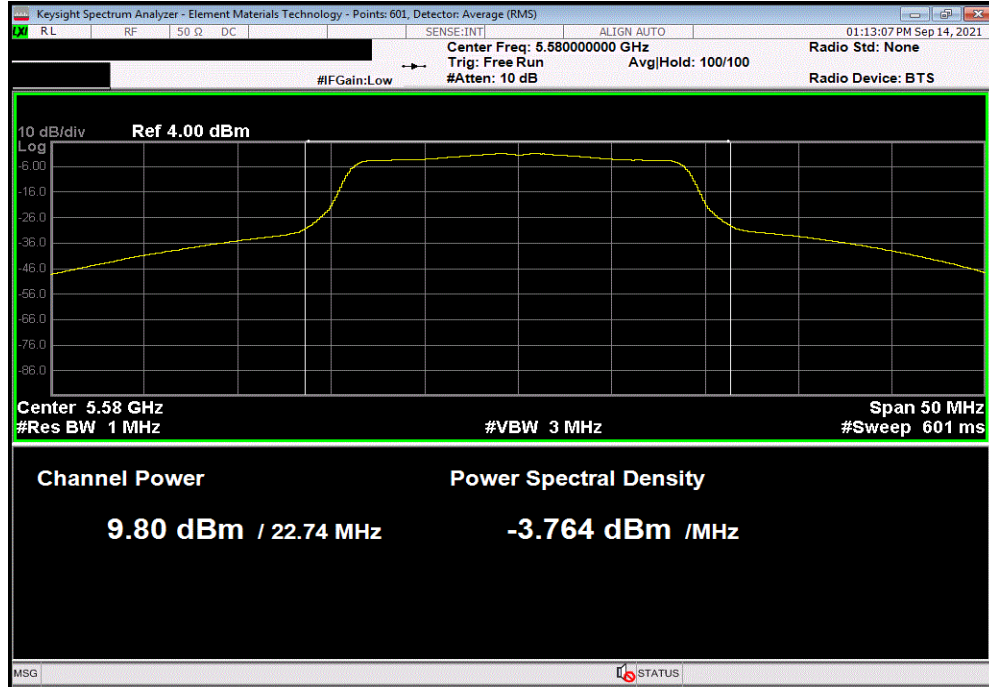


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

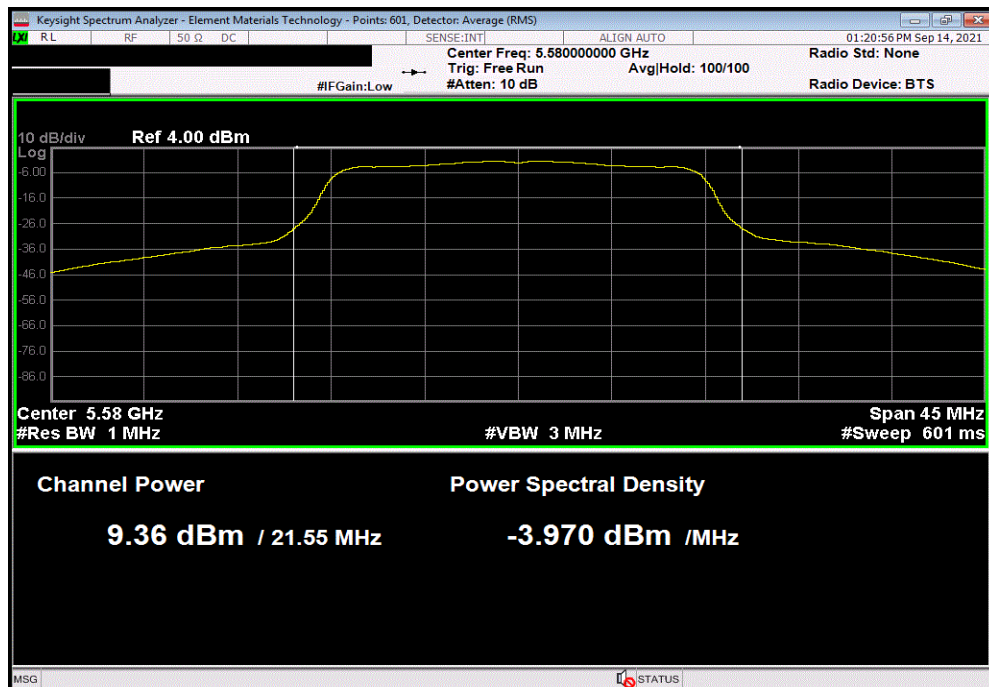


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 116 - 5580 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.802	0.1	9.9	5.2	25.0	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 116 - 5580 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.363	0.5	9.9	5.2	25.0	30	Pass

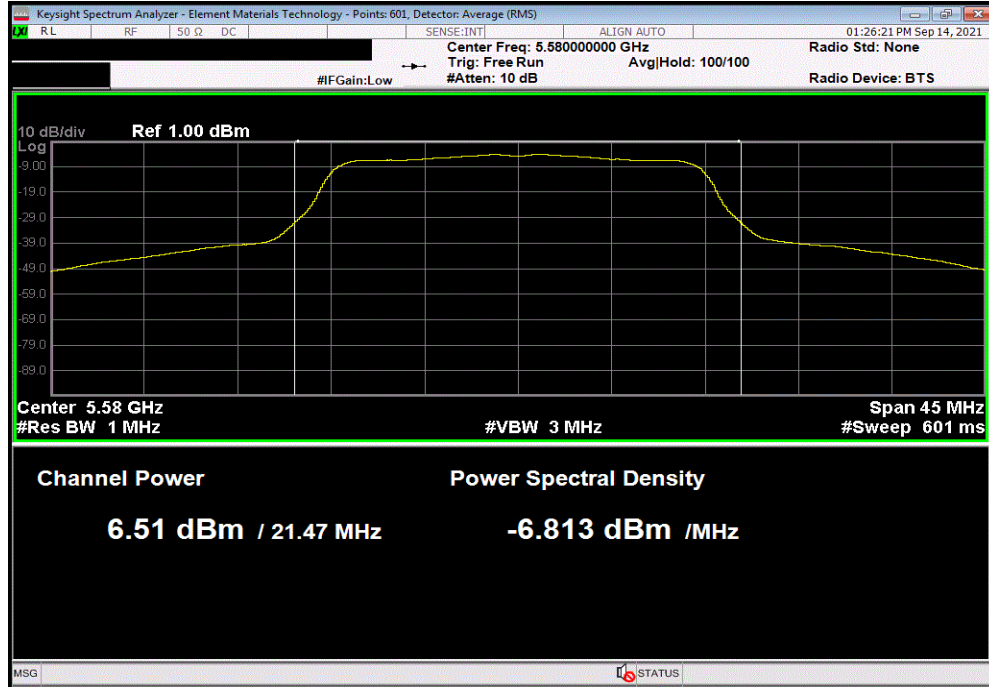


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

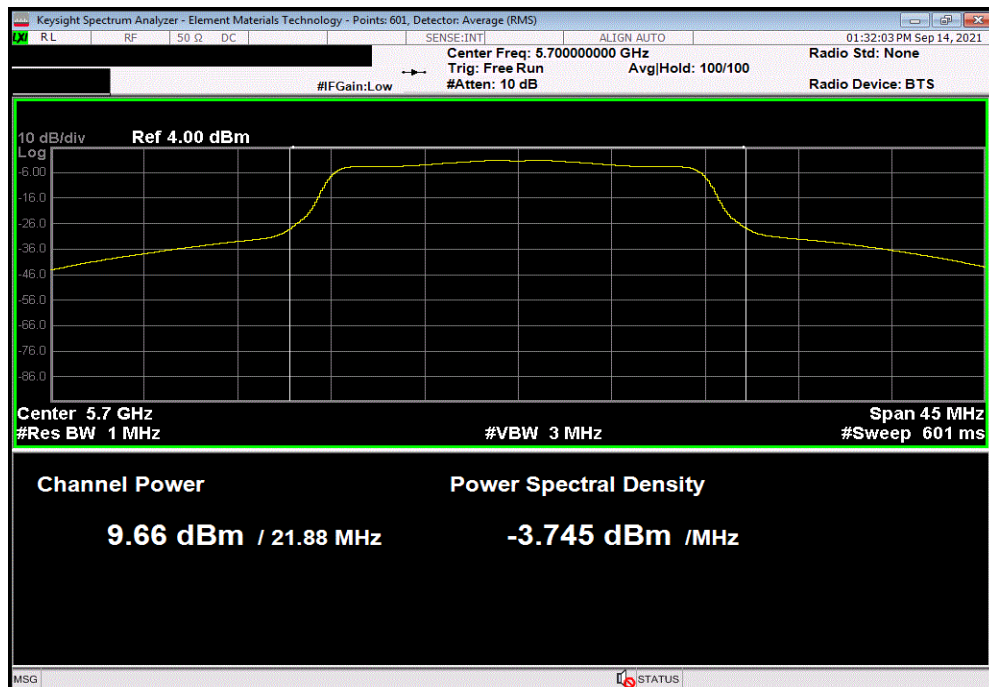


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 116 - 5580 MHz, MCS8 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.506	0.6	7.1	5.2	19.4	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 140 - 5700 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.655	0.1	9.7	5.2	24.7	30	Pass

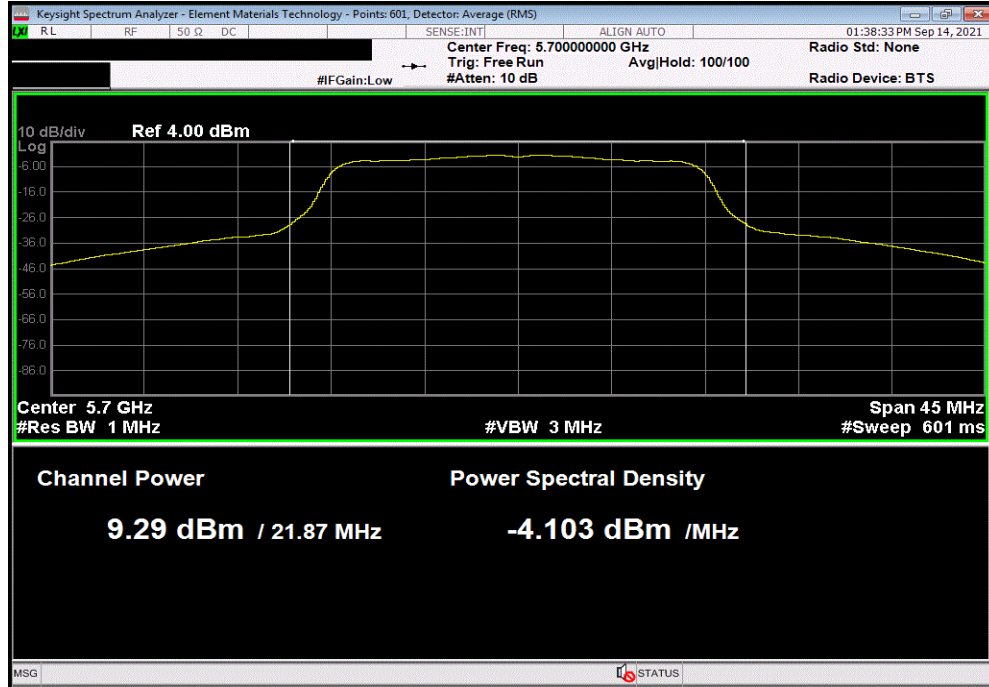


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

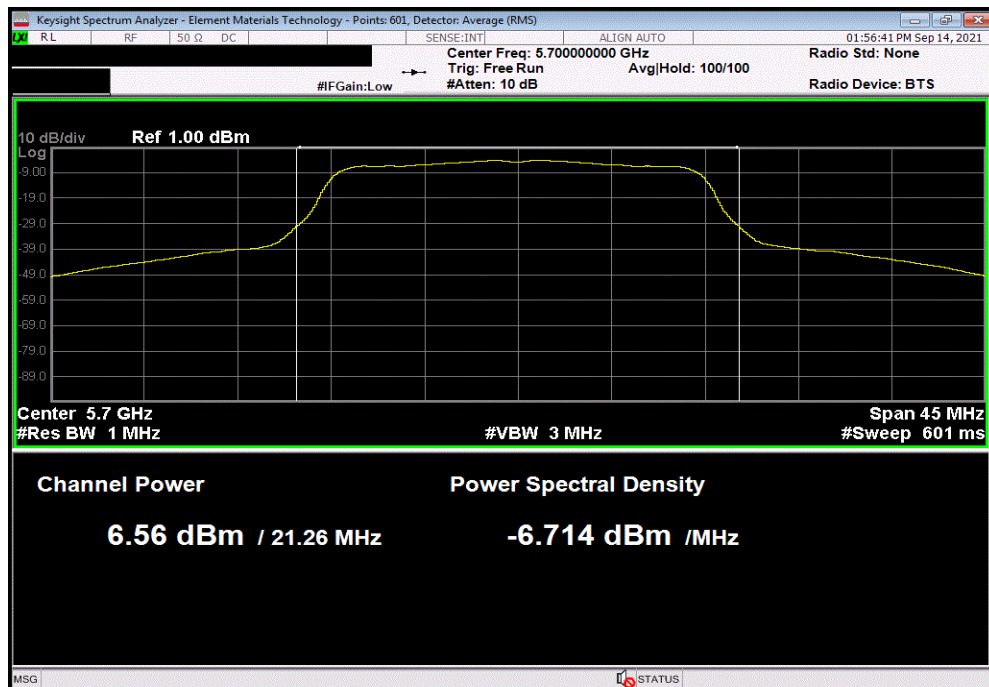


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 140 - 5700 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.295	0.5	9.8	5.2	24.8	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 140 - 5700 MHz, MCS8 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.561	0.5	7.1	5.2	19.4	30	Pass

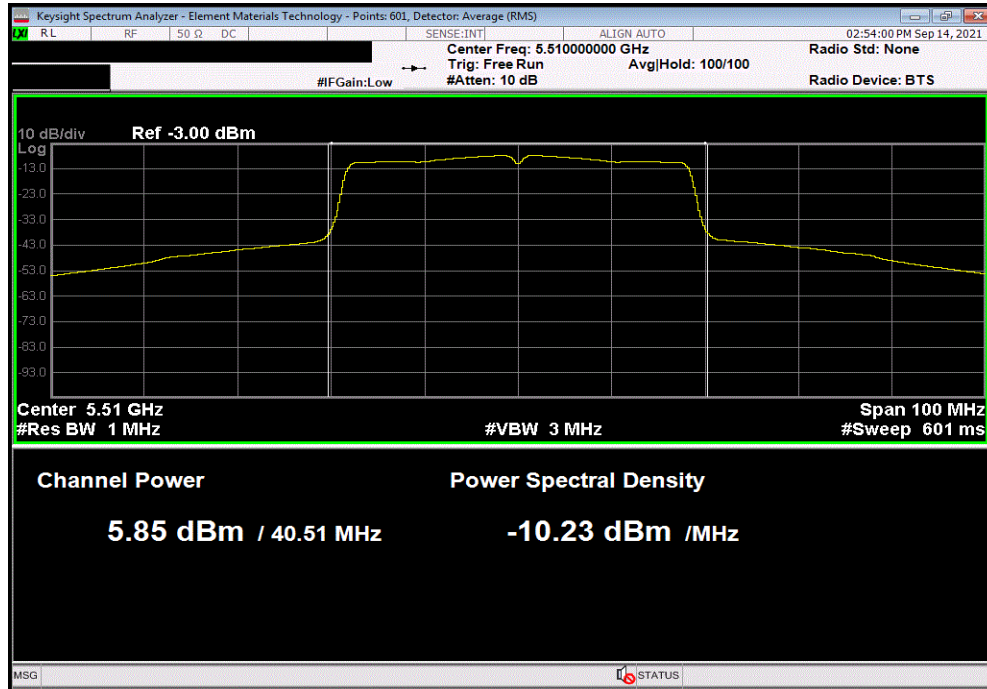


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

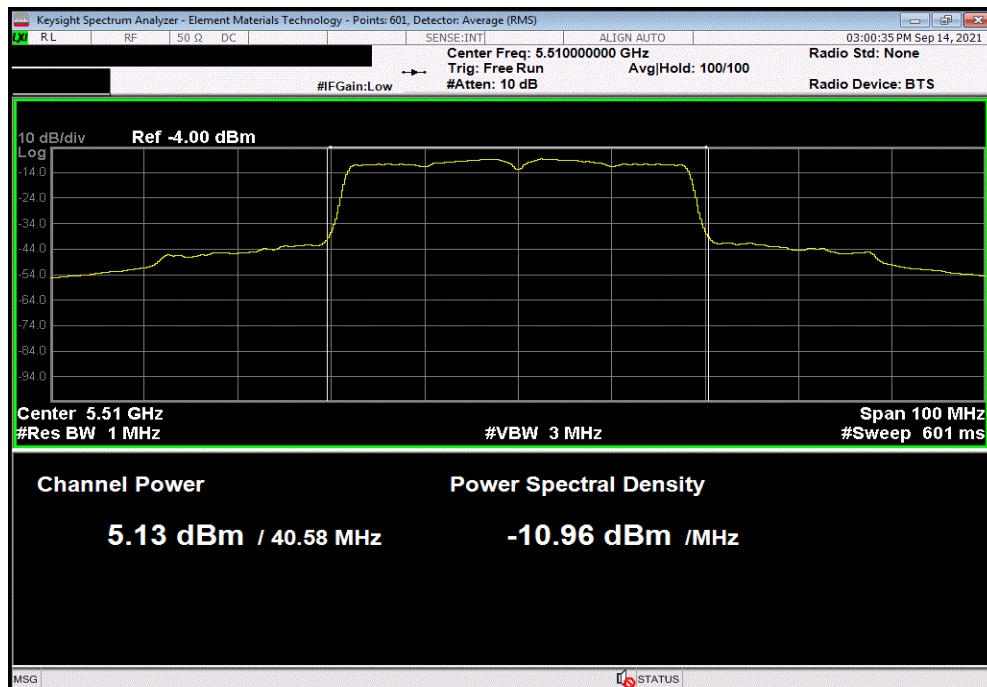


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 100/104 - 5510 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.85	0.1	6	5.2	17.2	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 100/104 - 5510 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.127	0.7	5.8	5.2	16.8	30	Pass

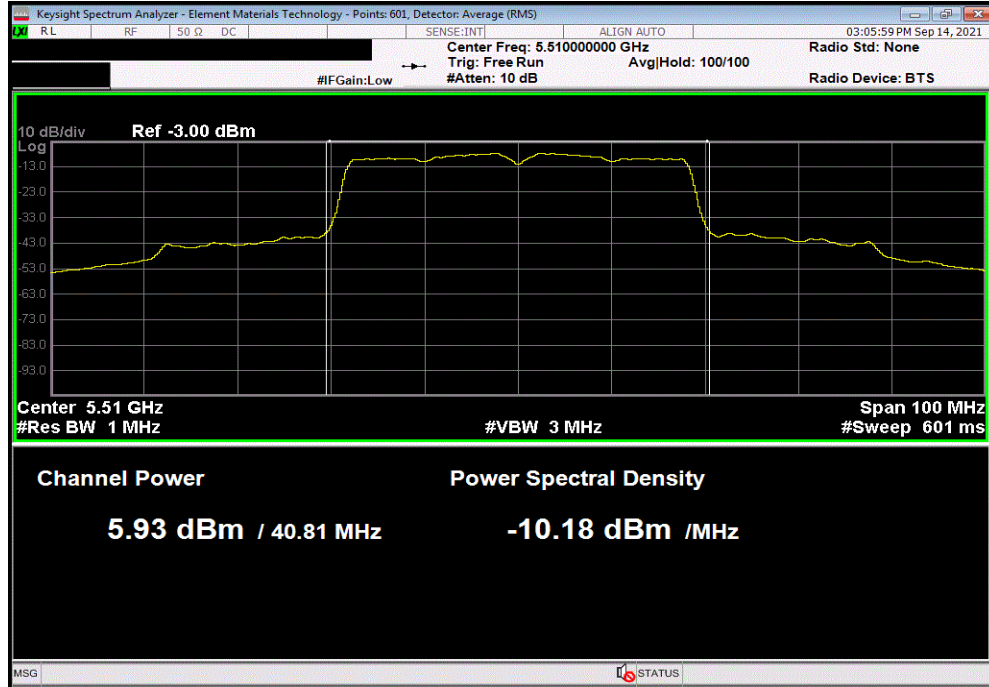


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

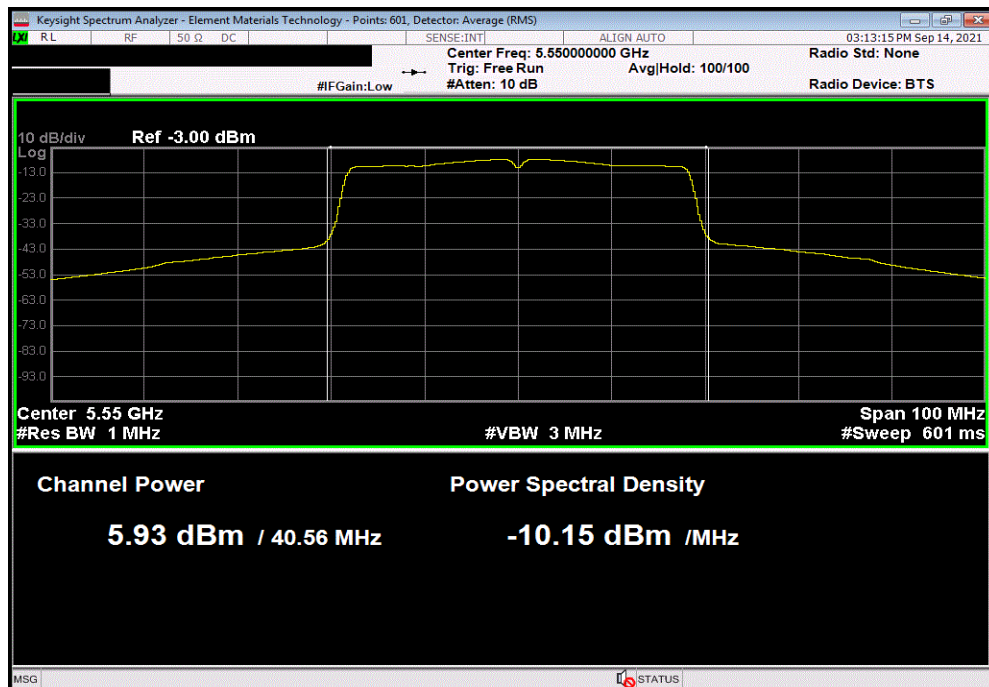


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 100/104 - 5510 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.927	0.8	6.8	5.2	18.7	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT40, Mid Channel, Ch 108/112 - 5550 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.927	0.1	6.1	5.2	17.3	30	Pass

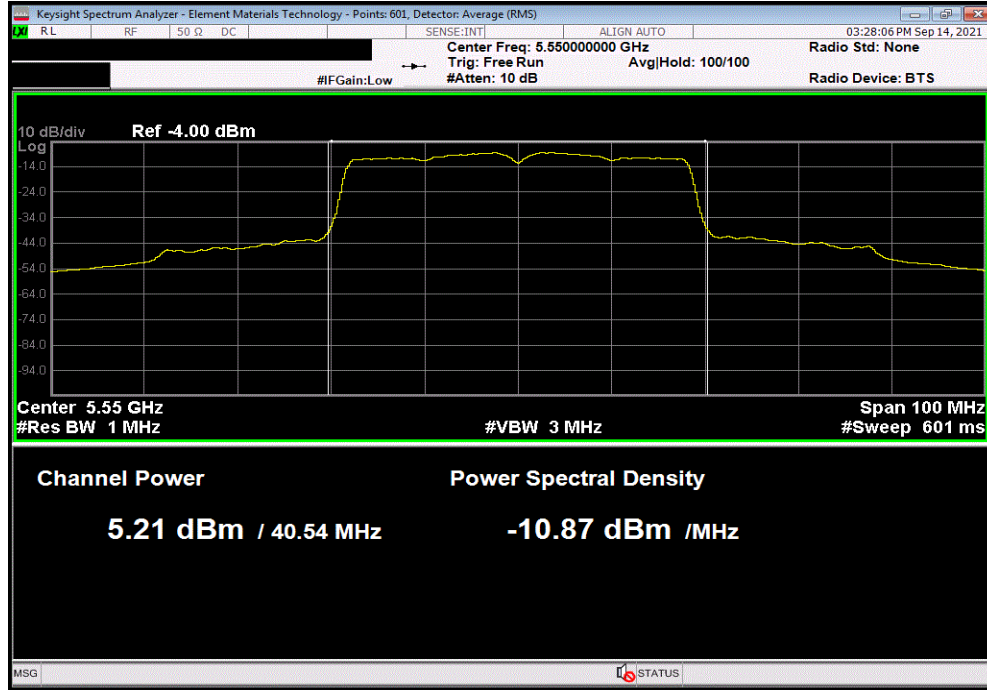


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

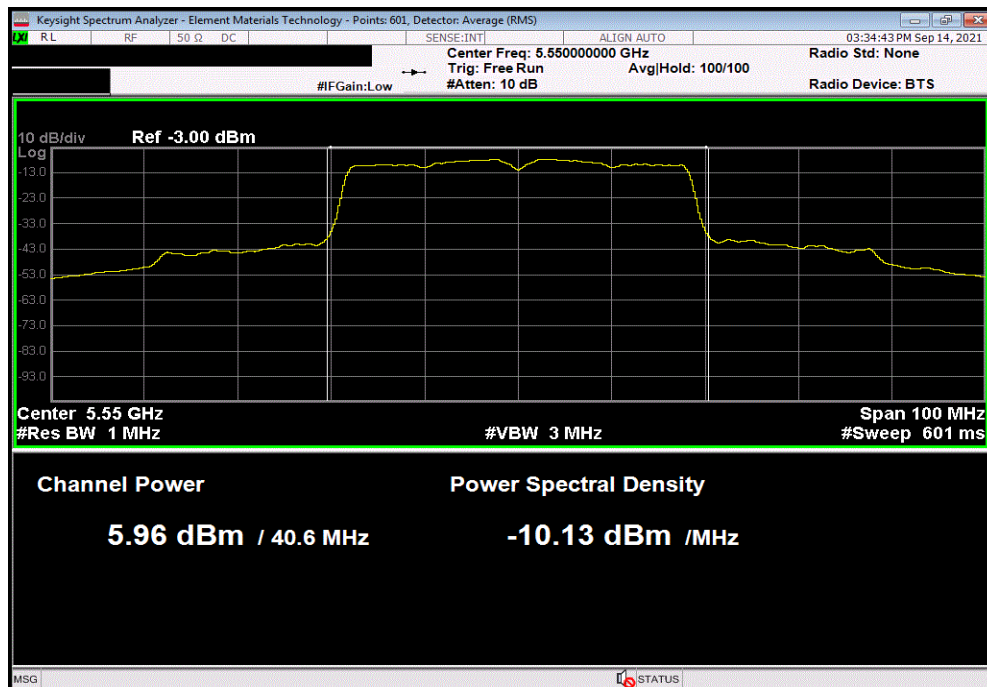


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT40, Mid Channel, Ch 108/112 - 5550 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.21	0.7	5.9	5.2	17.0	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT40, Mid Channel, Ch 108/112 - 5550 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.96	0.9	6.8	5.2	18.9	30	Pass

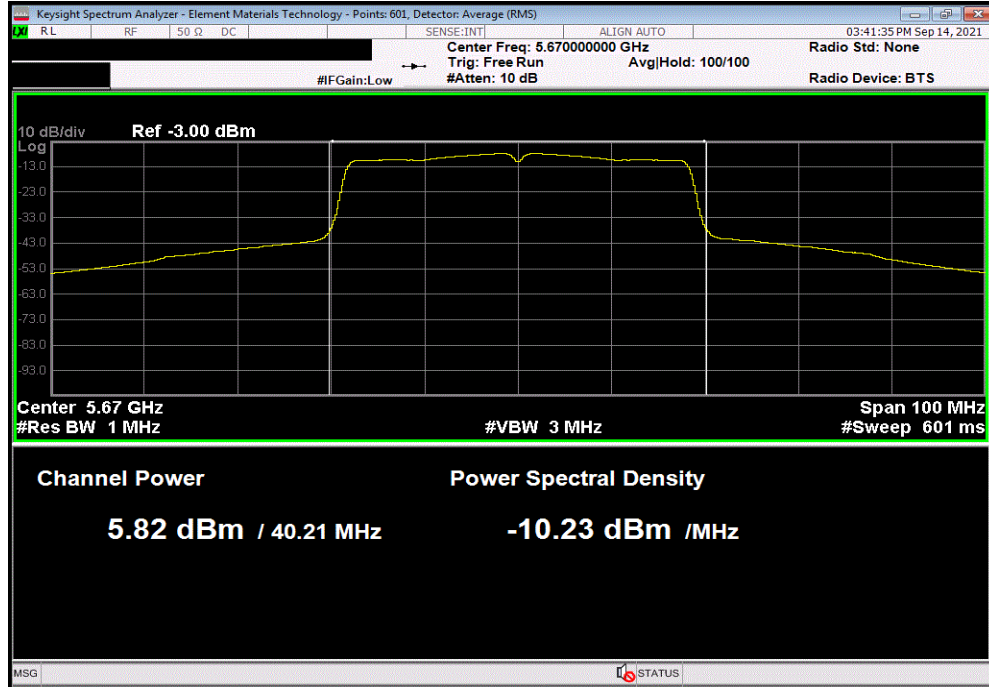


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

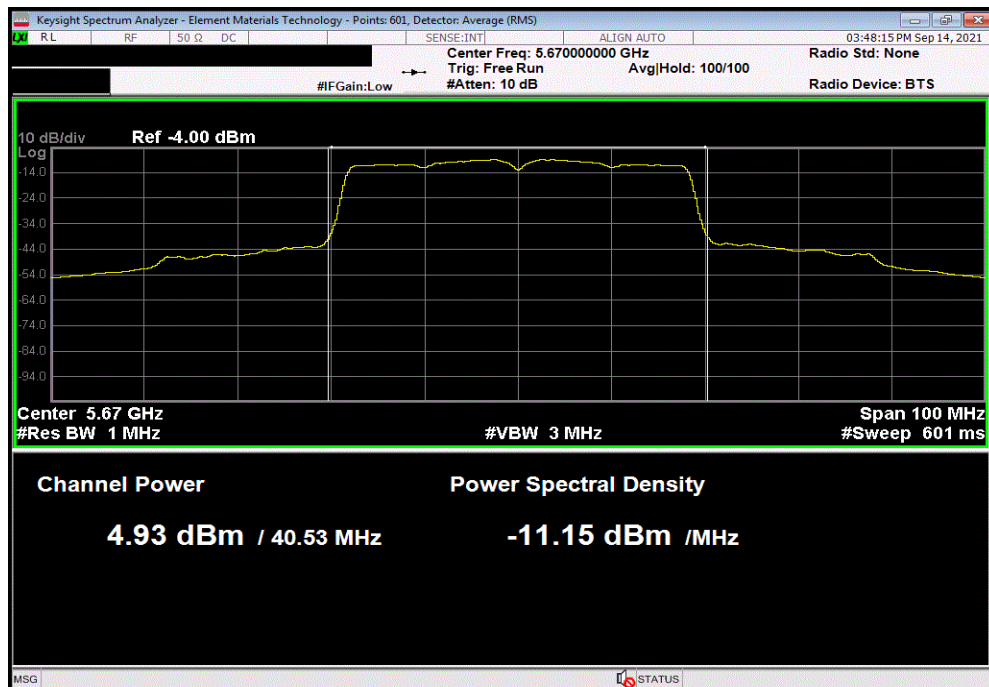


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 132/136 - 5670 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.818	0.1	5.9	5.2	17.0	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 132/136 - 5670 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
4.929	0.7	5.7	5.2	16.5	30	Pass

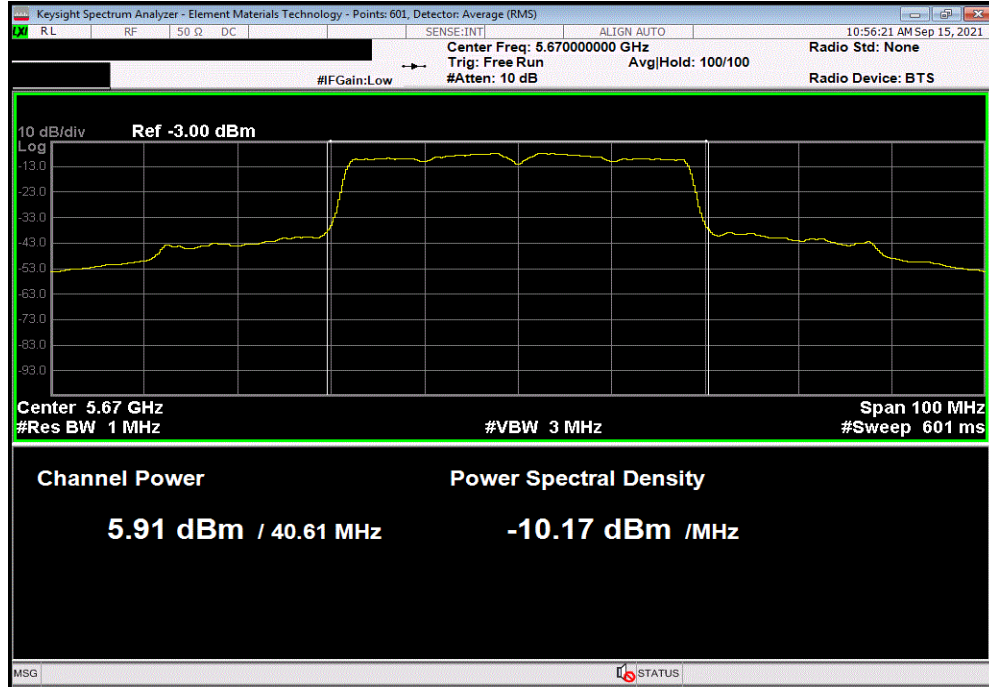


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

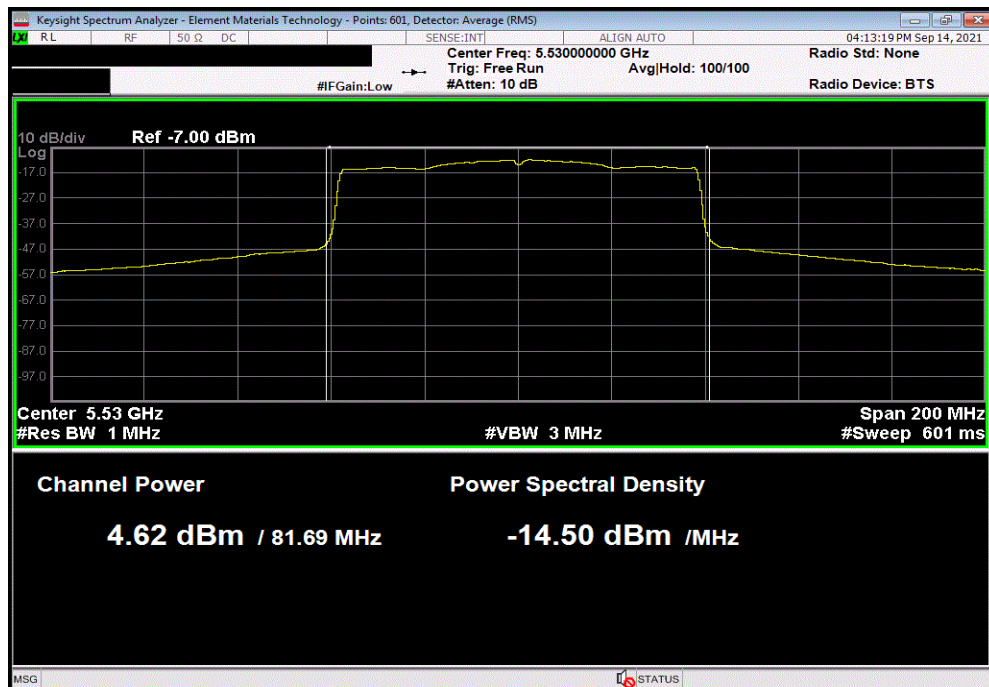


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 132/136 - 5670 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.913	0.8	6.7	5.2	18.6	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 100-112 - 5530 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
4.622	0.2	4.9	5.2	14.9	30	Pass

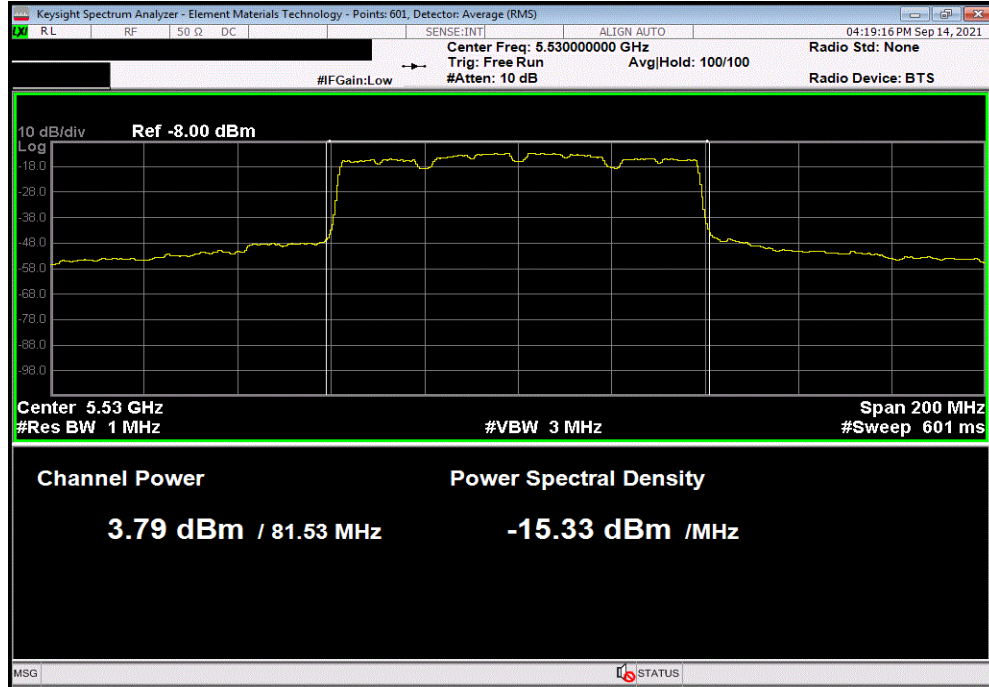


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

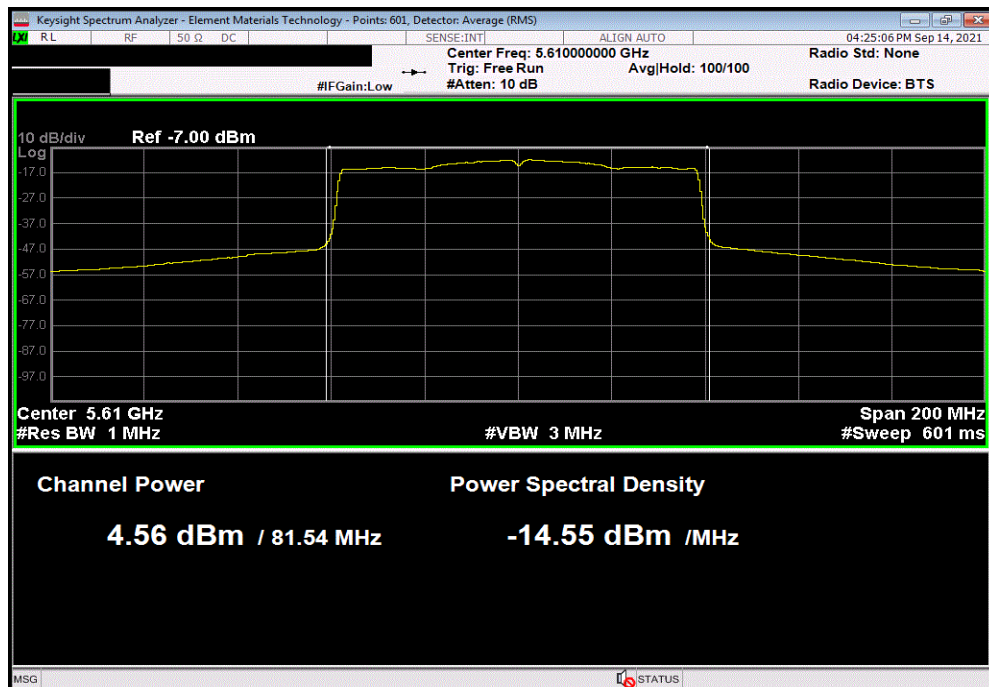


TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 100-112 - 5530 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
3.787	1.1	4.9	5.2	15.0	30	Pass



5470 - 5725 MHz Band, 802.11(n/ac) VHT80, High Channel, Ch 116-128 - 5610 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
4.561	0.2	4.8	5.2	14.8	30	Pass

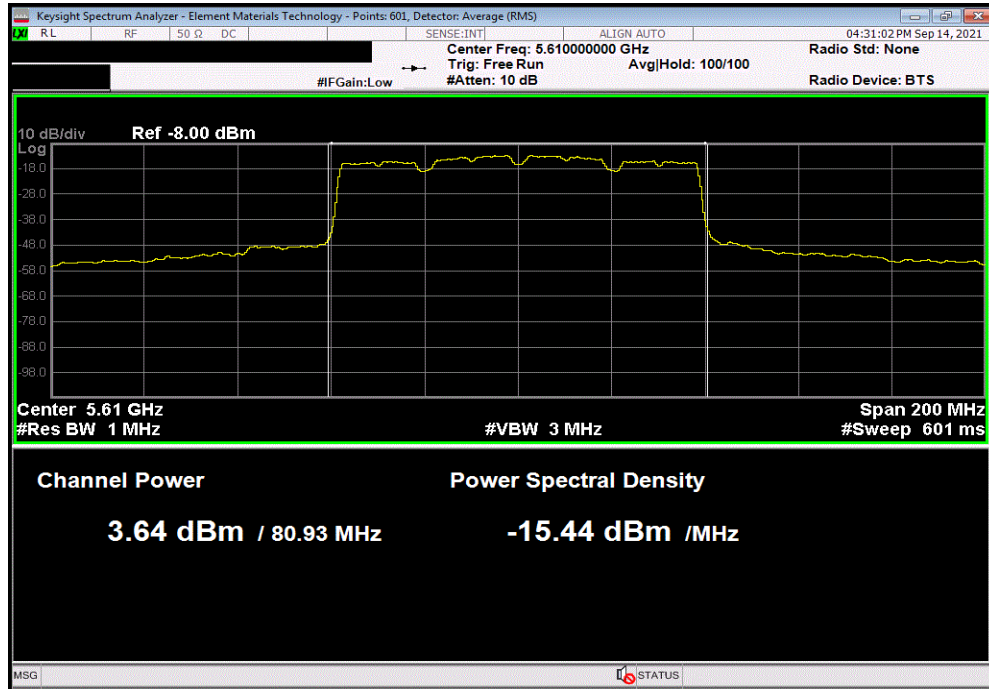


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND



TbTx 2021.03.19.1 XMt 2020.12.30.0

5470 - 5725 MHz Band, 802.11(n/ac) VHT80, High Channel, Ch 116-128 - 5610 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
3.636	1.1	4.7	5.2	14.6	30	Pass



EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 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 frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

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

The maximum conducted output power was measured using ANSI C63.10:2013, Clause 12.3.2.4, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

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

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

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

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi).

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND



TMTx 2021.03.19.1 XMR 2022.02.07.0

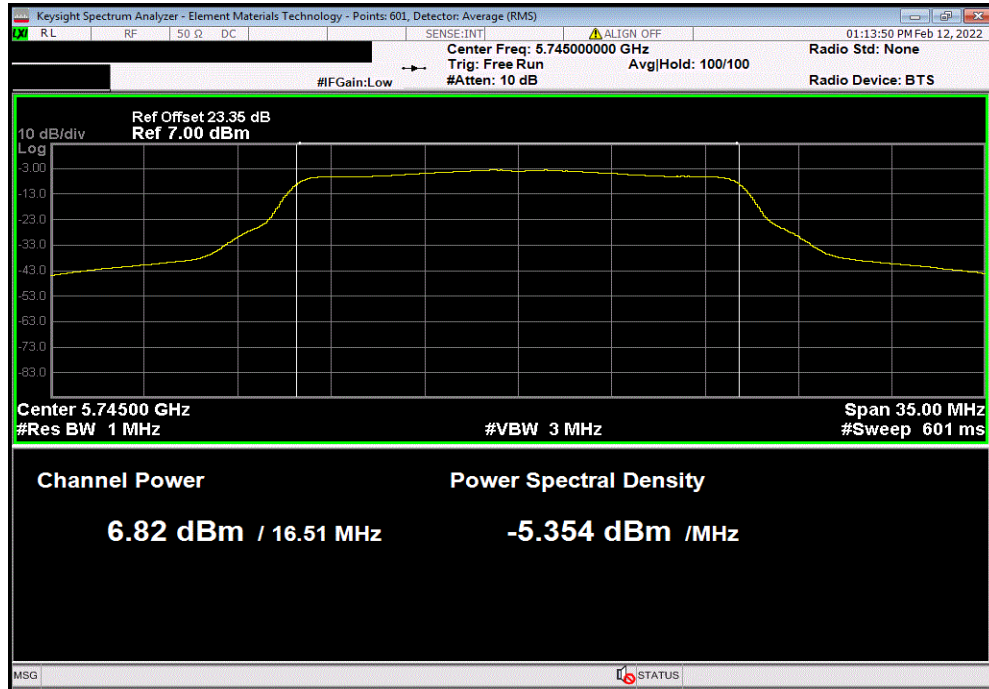
EUT: 43.0536.00				Work Order: A-DE0170				
Serial Number: SN001 00001				Date: 19-Feb-22				
Customer: A-dec, Inc.				Temperature: 20.7 °C				
Attendees: None				Humidity: 27% RH				
Project: None				Barometric Pres.: 1031 mbar				
Tested by: Jeff Alcoke		Power: 3.3 VDC via 110VAC/60Hz		Job Site: EV06				
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 						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5725 - 5785 MHz Band								
802.11(a) No HT								
Low Channel, Ch 149 - 5745 MHz								
	6 Mbps	6.824	0.1	6.9	5.2	12.1	36	Pass
	36 Mbps	5.518	0.3	5.8	5.2	11	36	Pass
	54 Mbps	6.514	0.5	7	5.2	12.2	36	Pass
Mid Channel, Ch 157 - 5785 MHz								
	6 Mbps	6.926	0.1	7	4.5	11.5	36	Pass
	36 Mbps	6.496	0.3	6.8	5.2	12	36	Pass
	54 Mbps	6.413	0.5	6.9	5.2	12.1	36	Pass
High Channel, Ch 165 - 5825 MHz								
	6 Mbps	6.865	0.1	7	5.2	12.2	36	Pass
	36 Mbps	6.621	0.3	6.9	5.2	12.1	36	Pass
	54 Mbps	6.56	0.5	7.1	5.2	12.3	36	Pass
802.11(n/ac) VHT20								
Low Channel, Ch 149 - 5745 MHz								
	MCS0	5.761	0.1	5.9	5.2	11.1	36	Pass
	MCS7	6.112	0.5	6.6	5.2	11.8	36	Pass
	MCS8 (256-QAM)	6.042	0.5	6.5	5.2	11.7	36	Pass
Mid Channel, Ch 157 - 5785 MHz								
	MCS0	6.555	0.1	6.7	5.2	11.9	36	Pass
	MCS7	5.168	0.5	5.7	5.2	10.9	36	Pass
	MCS8 (256-QAM)	6.032	0.5	6.5	5.2	11.7	36	Pass
High Channel, Ch 165 - 5825 MHz								
	MCS0	6.644	0.1	6.7	5.2	11.9	36	Pass
	MCS7	6.433	0.5	6.9	5.2	12.1	36	Pass
	MCS8 (256-QAM)	6.338	0.5	6.8	5.2	12	36	Pass
802.11(n/ac) VHT40								
Low Channel, Ch 149/153 - 5755 MHz								
	MCS0	6.581	0.1	6.7	5.2	11.9	36	Pass
	MCS7	5.255	0.7	6	5.2	11.2	36	Pass
	MCS9 (256-QAM)	6.814	0.8	7.6	5.2	12.8	36	Pass
High Channel, Ch 157/161 - 5795 MHz								
	MCS0	5.718	0.1	5.8	5.2	11	36	Pass
	MCS7	5.747	0.7	6.4	5.2	11.6	36	Pass
	MCS9 (256-QAM)	5.826	0.8	6.6	5.2	11.8	36	Pass
802.11(n/ac) VHT80								
Low Channel, Ch 149-161 - 5775 MHz								
	MCS0	4.558	0.2	4.8	5.2	10	36	Pass
	MCS9 (256-QAM)	3.539	1.1	4.6	5.2	9.8	36	Pass

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

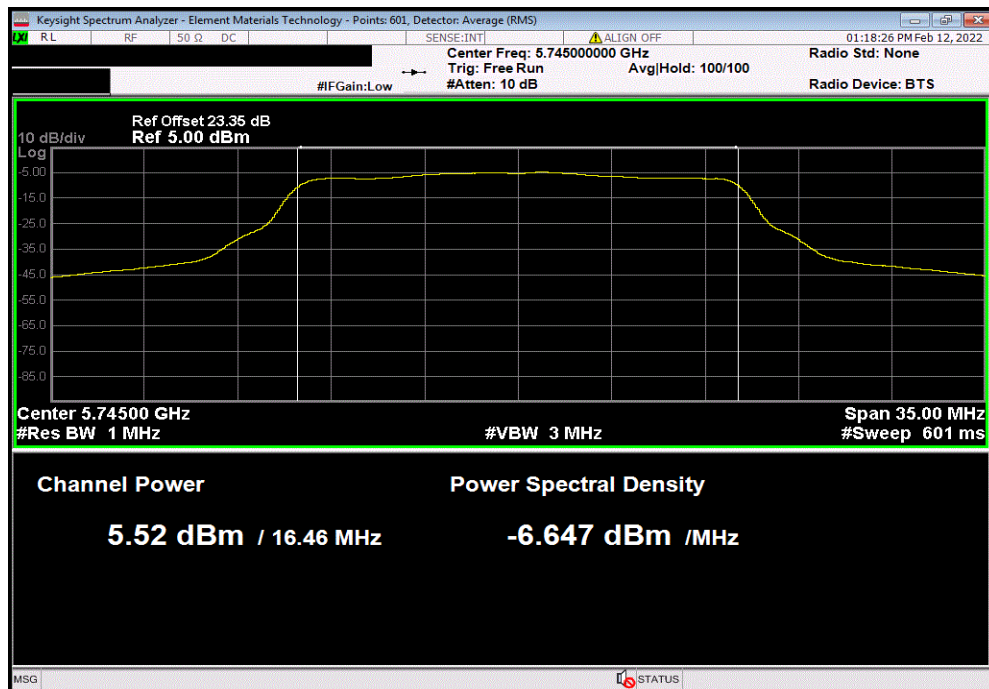


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 6 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.824	0.1	6.9	5.2	12.1	36	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 36 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.518	0.3	5.8	5.2	11	36	Pass

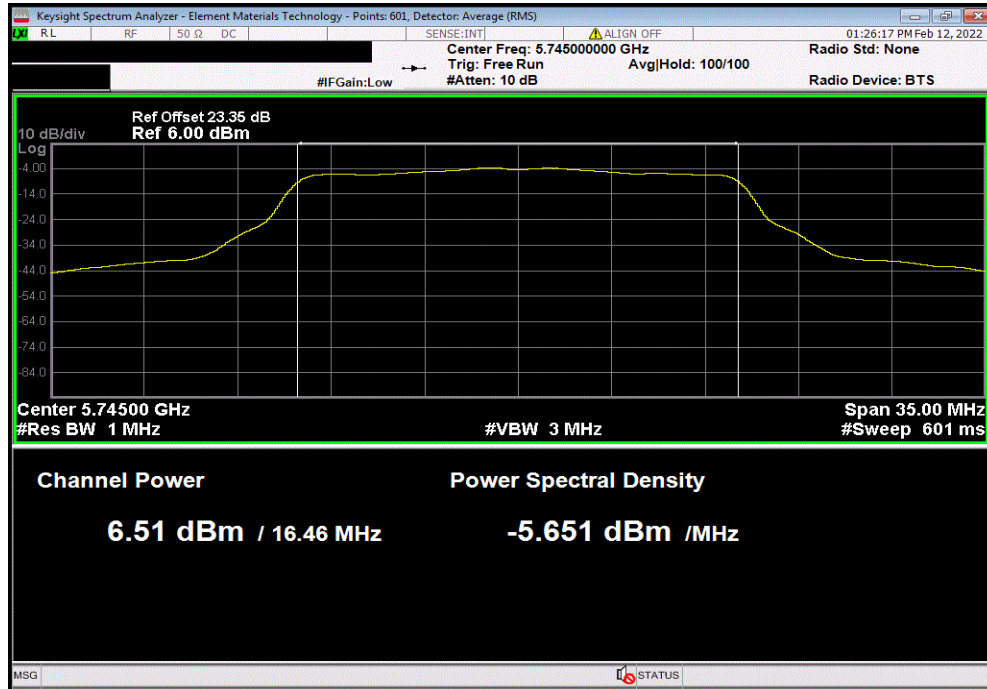


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

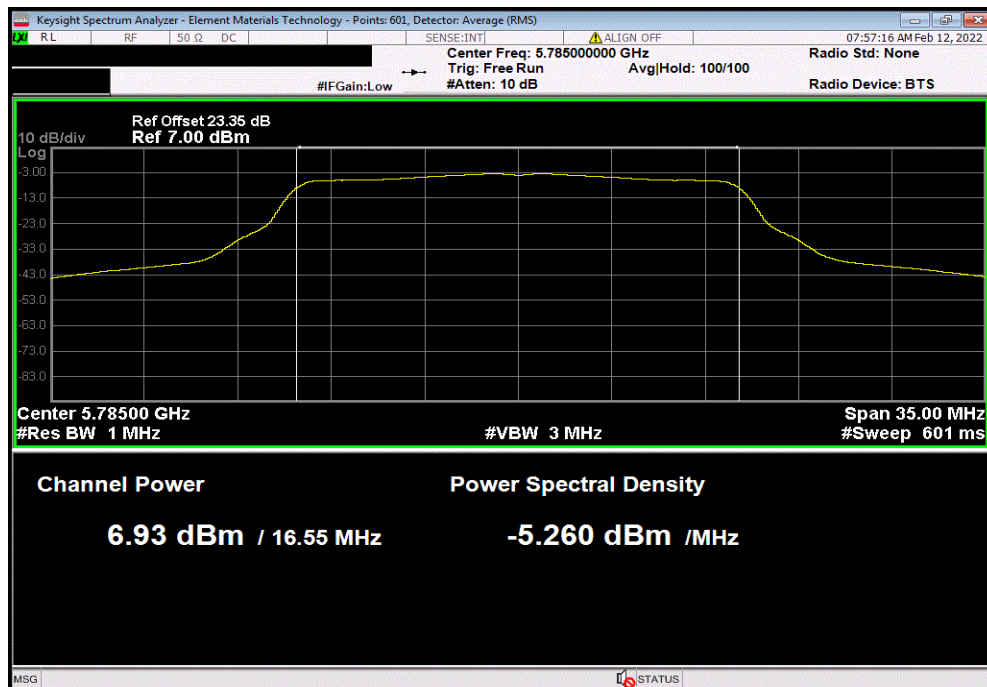


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(a) No HT, Low Channel, Ch 149 - 5745 MHz, 54 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.514	0.5	7	5.2	12.2	36	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 6 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.926	0.1	7	4.5	11.5	36	Pass

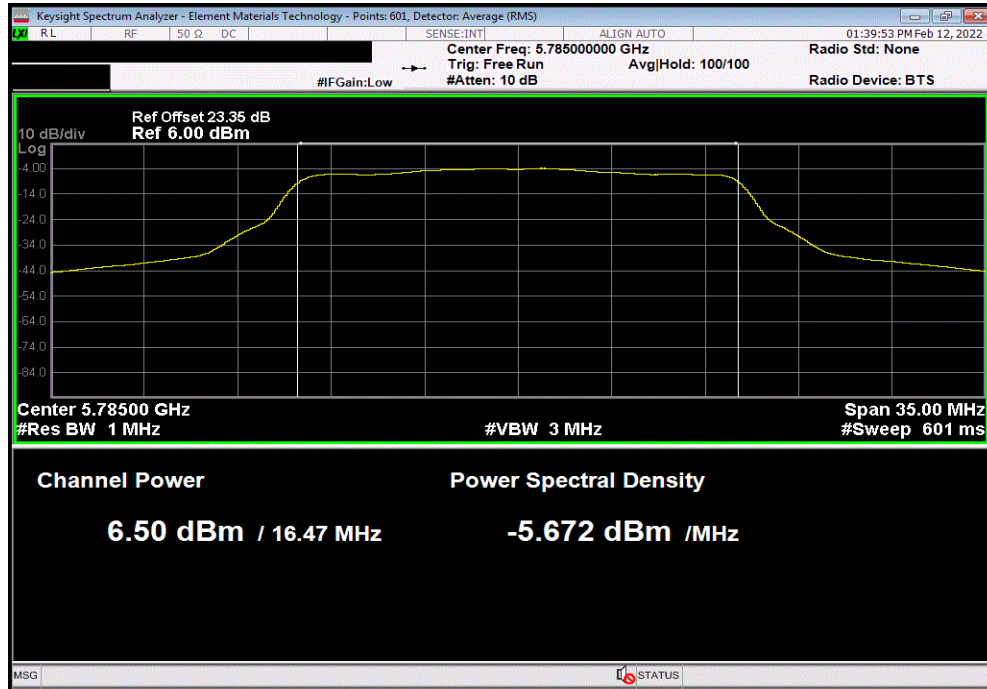


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

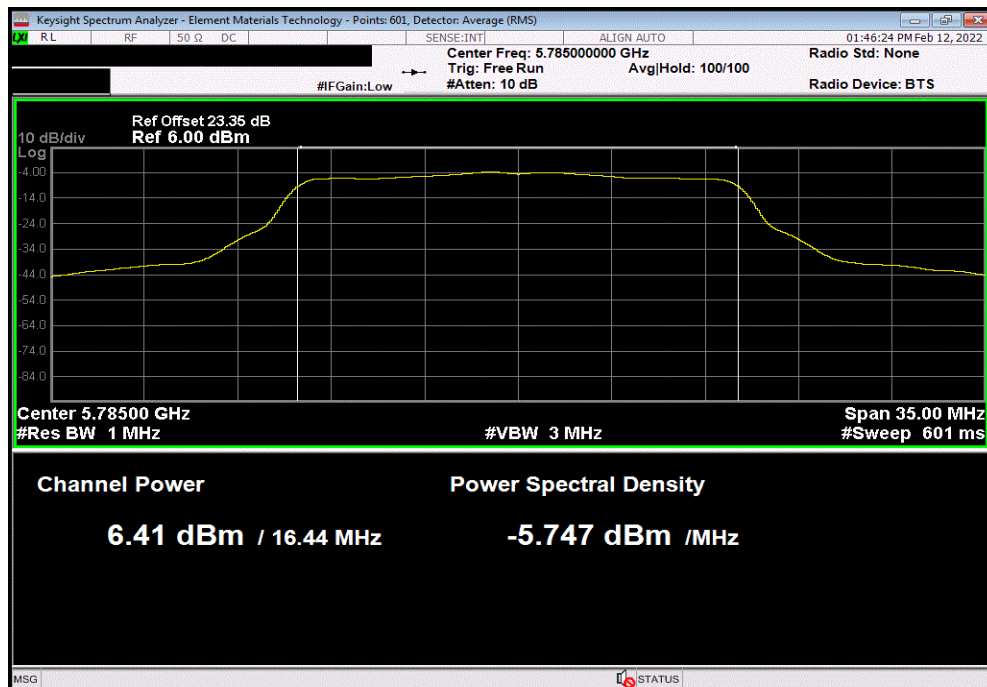


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 36 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.496	0.3	6.8	5.2	12	36	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, Mid Channel, Ch 157 - 5785 MHz, 54 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.413	0.5	6.9	5.2	12.1	36	Pass

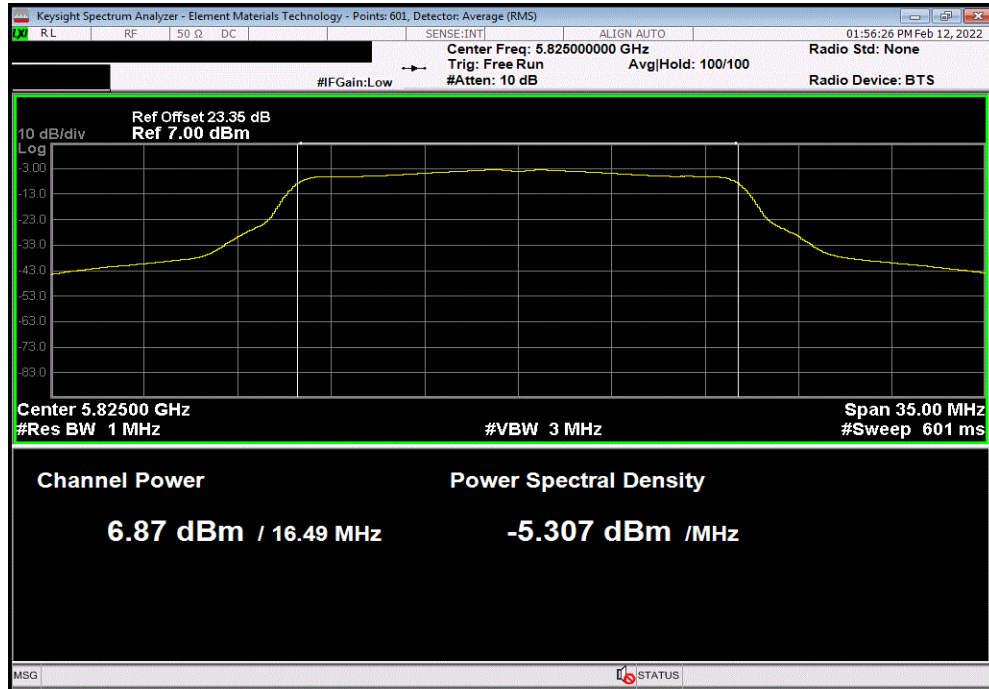


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

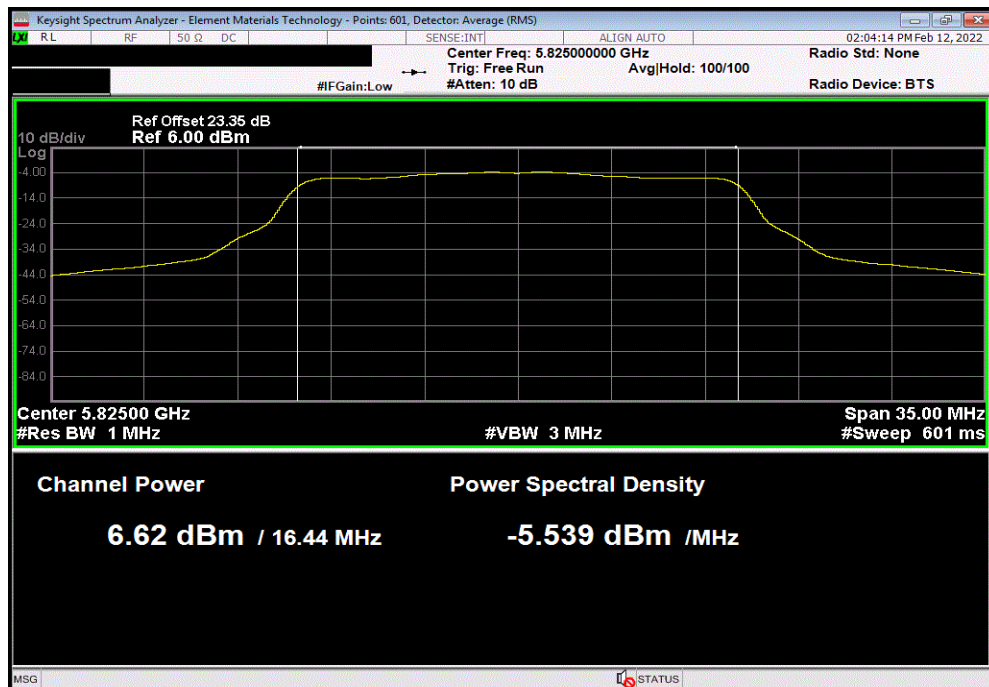


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 6 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.865	0.1	7	5.2	12.2	36	Pass



5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 36 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.621	0.3	6.9	5.2	12.1	36	Pass

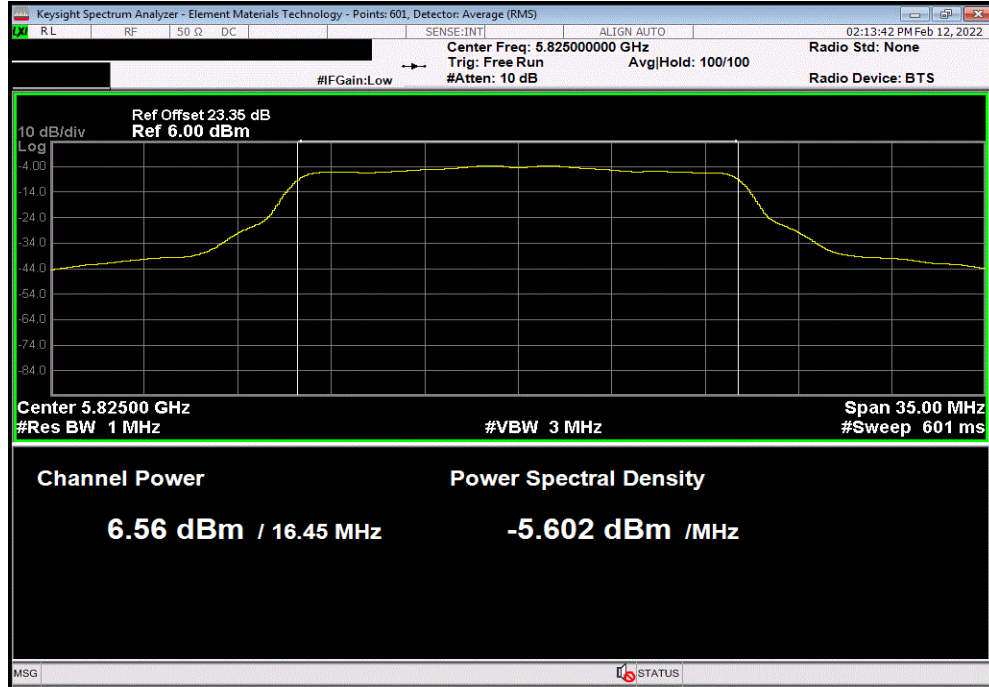


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

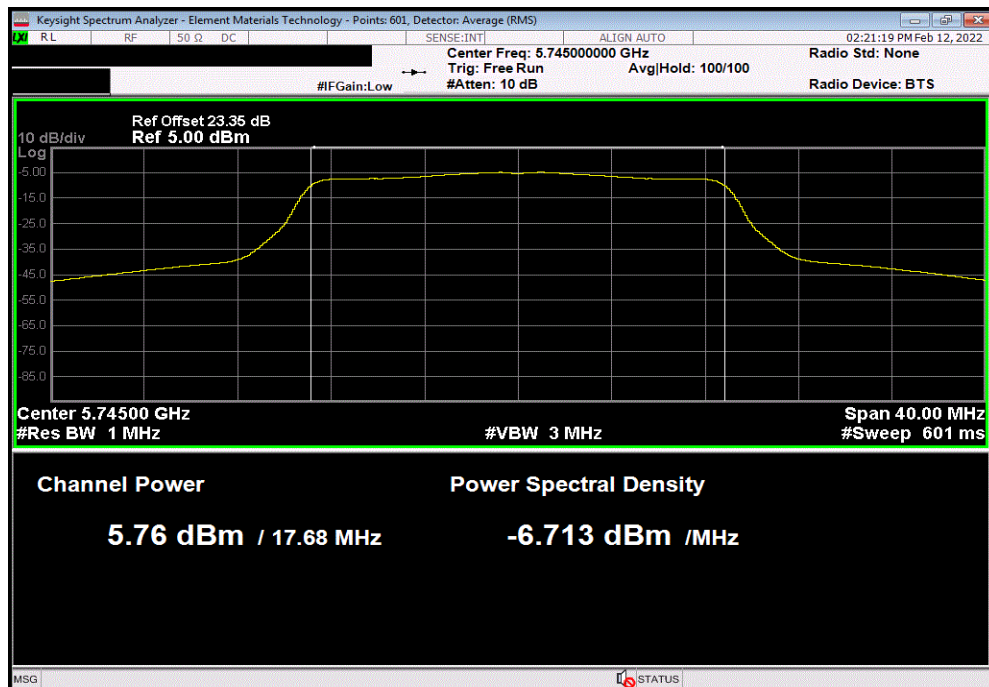


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(a) No HT, High Channel, Ch 165 - 5825 MHz, 54 Mbps						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.56	0.5	7.1	5.2	12.3	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.761	0.1	5.9	5.2	11.1	36	Pass

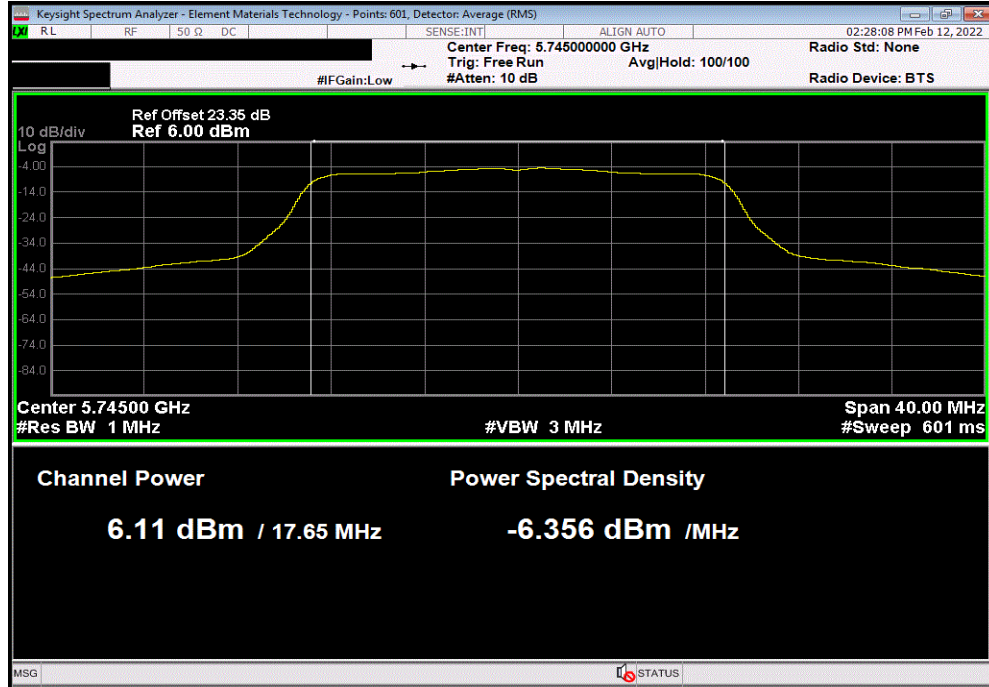


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

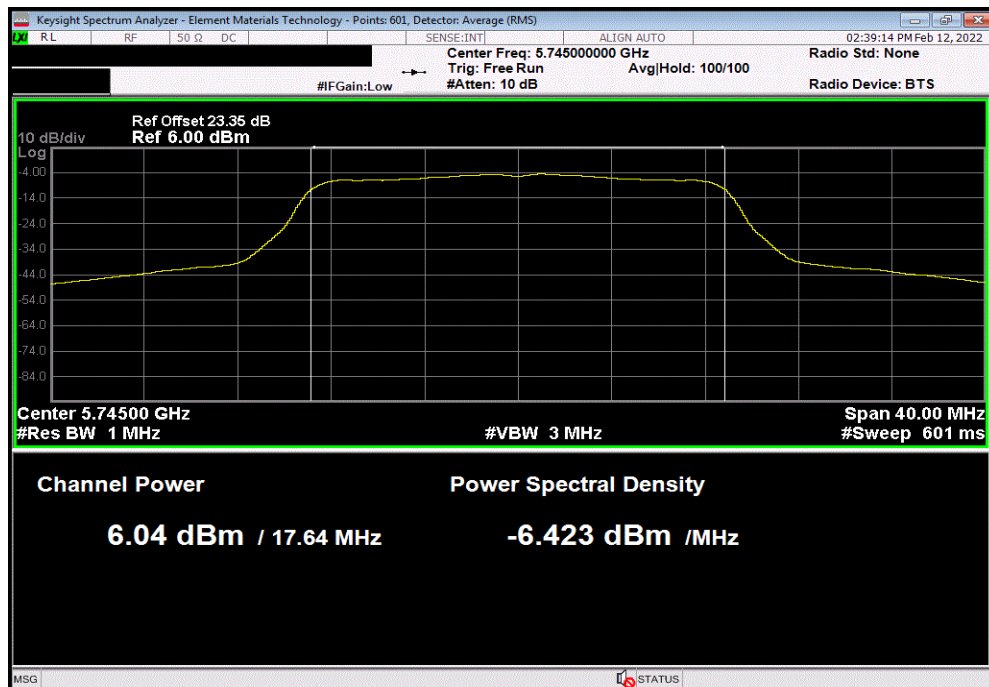


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.112	0.5	6.6	5.2	11.8	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Low Channel, Ch 149 - 5745 MHz, MCS8 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.042	0.5	6.5	5.2	11.7	36	Pass

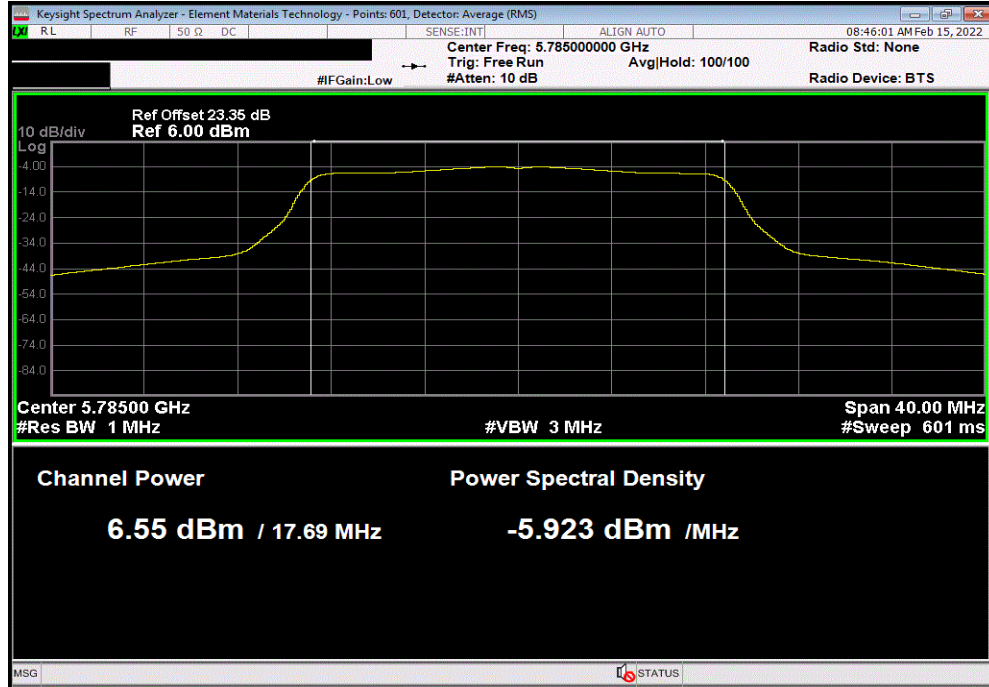


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

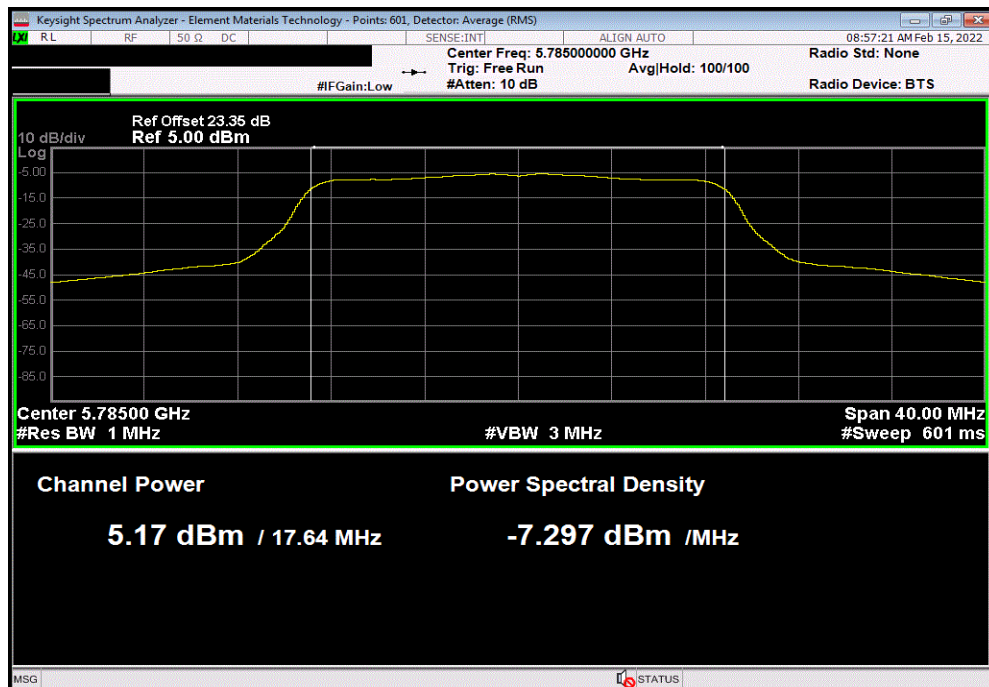


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.555	0.1	6.7	5.2	11.9	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.168	0.5	5.7	5.2	10.9	36	Pass

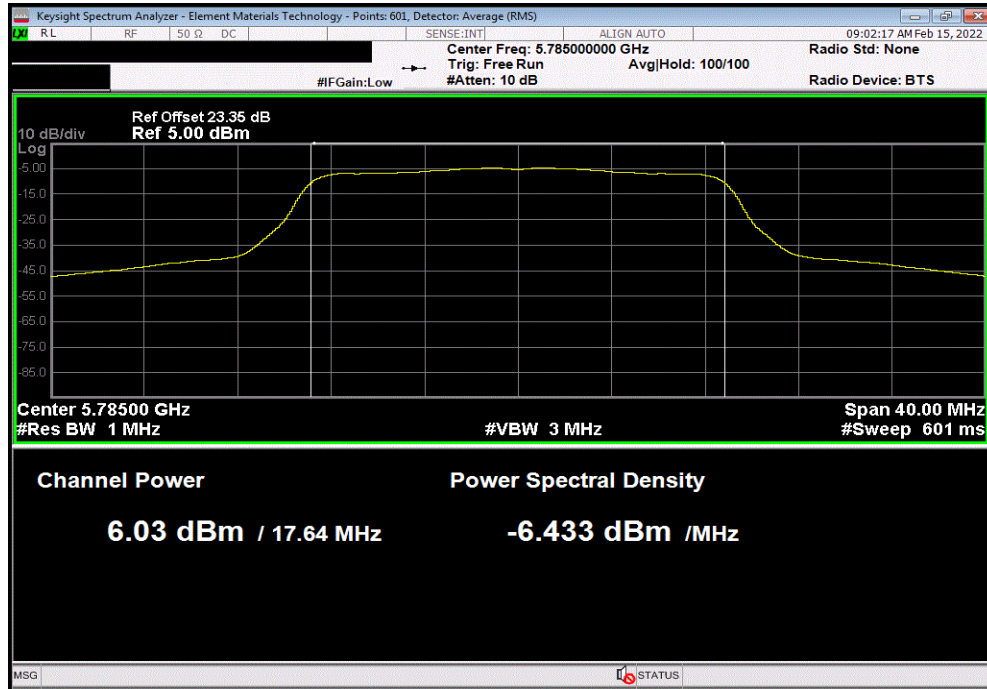


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

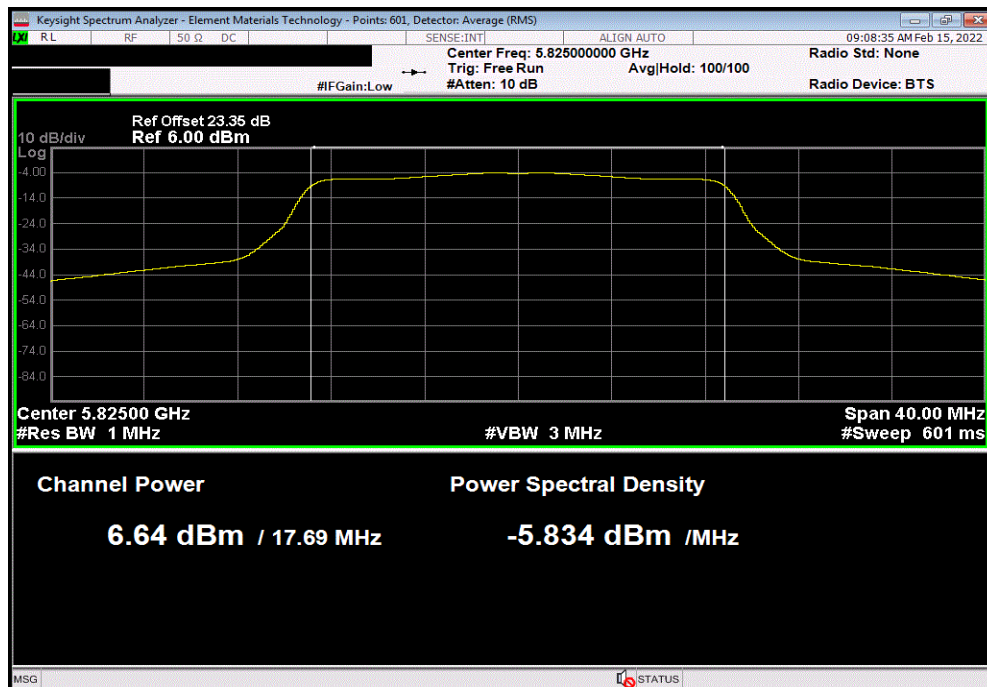


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT20, Mid Channel, Ch 157 - 5785 MHz, MCS8 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.032	0.5	6.5	5.2	11.7	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.644	0.1	6.7	5.2	11.9	36	Pass

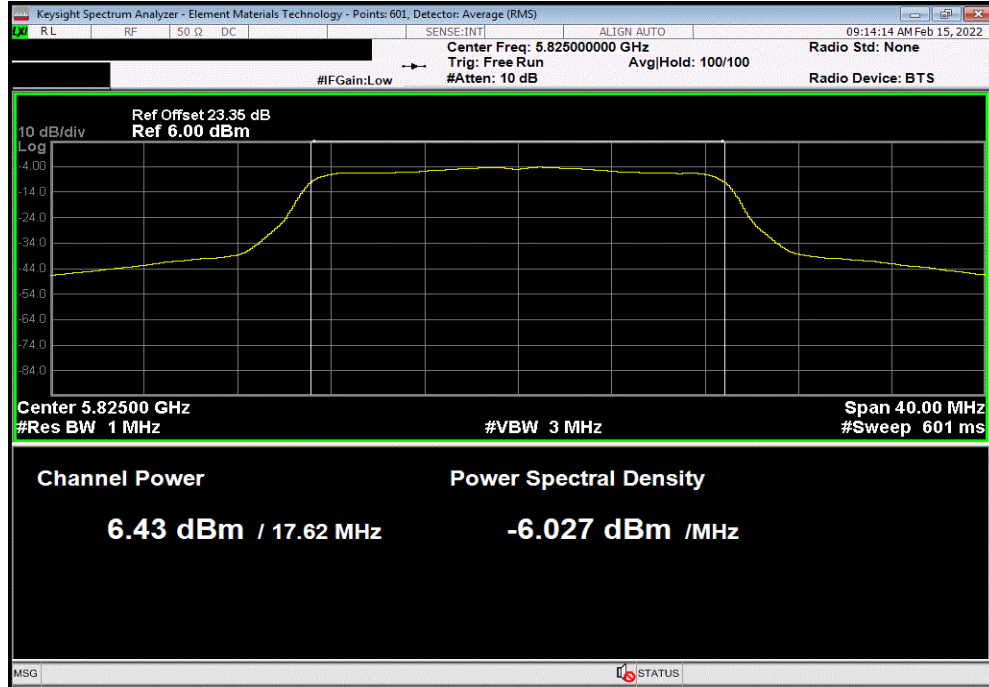


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

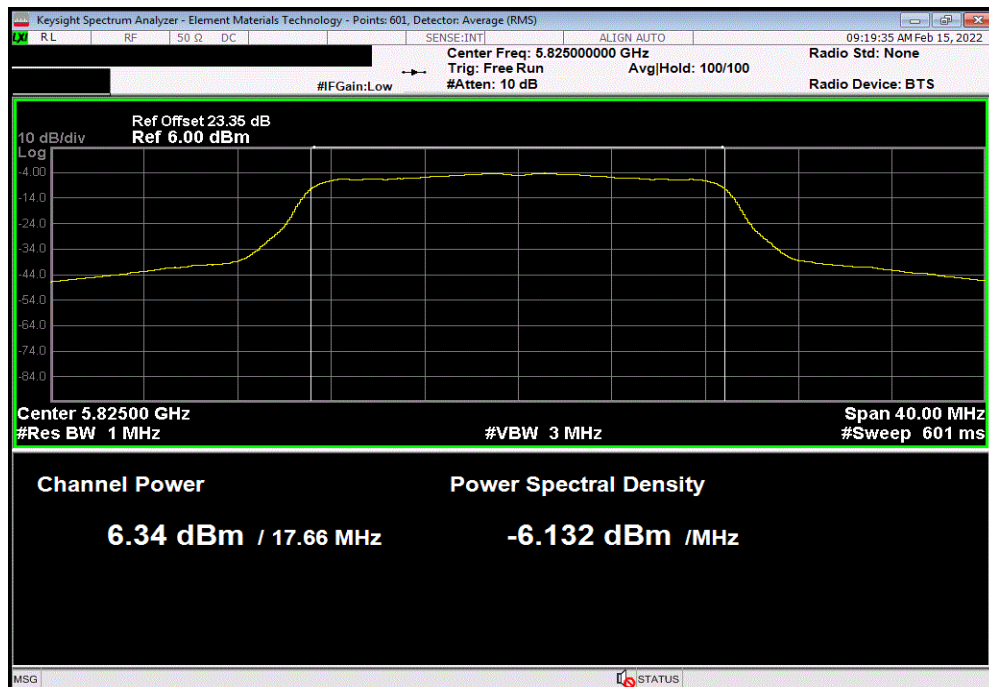


TbTx 2021.03.19.1 XM8 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.433	0.5	6.9	5.2	12.1	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT20, High Channel, Ch 165 - 5825 MHz, MCS8 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.338	0.5	6.8	5.2	12	36	Pass

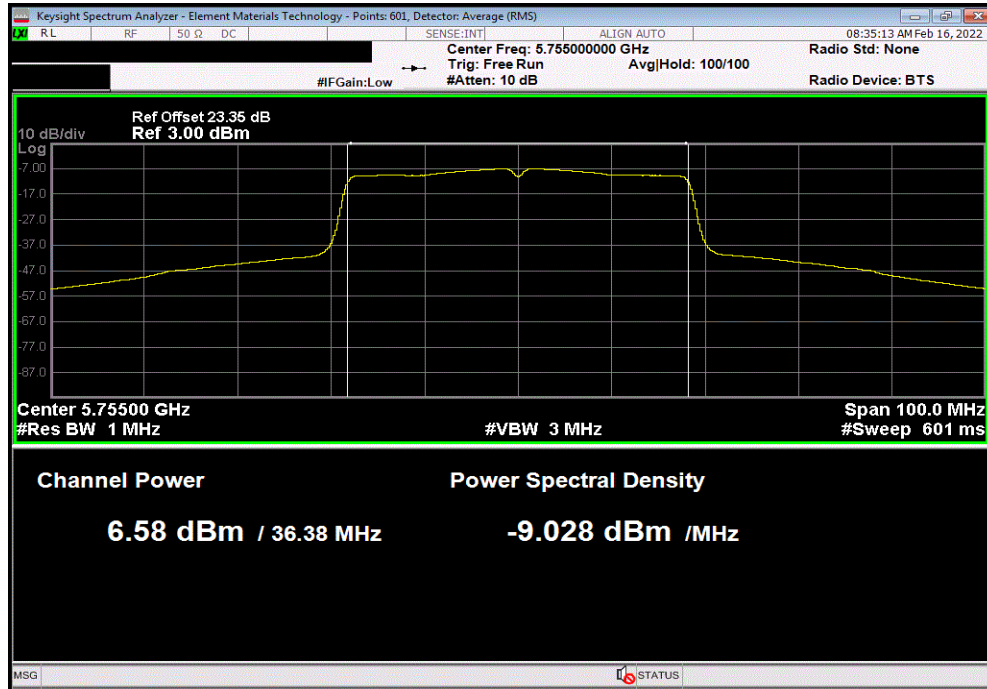


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

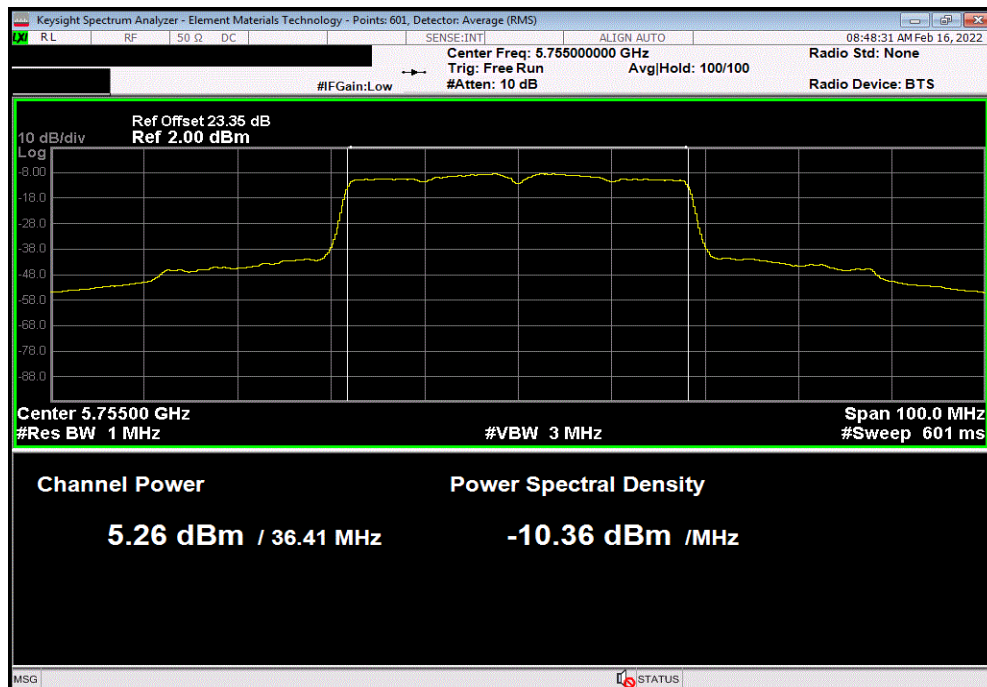


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.581	0.1	6.7	5.2	11.9	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.255	0.7	6	5.2	11.2	36	Pass

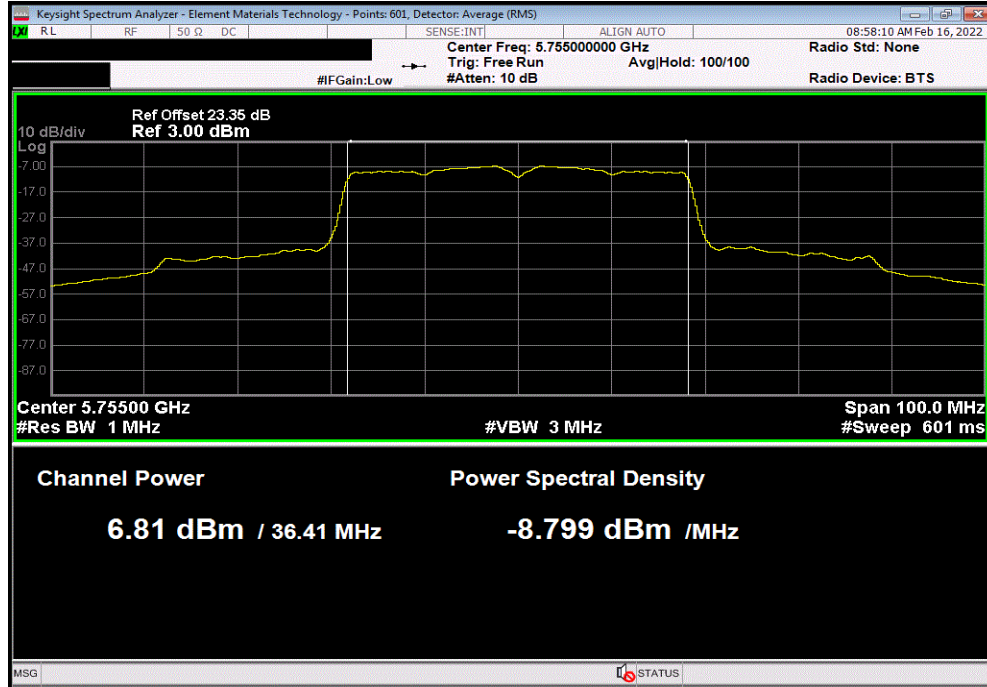


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

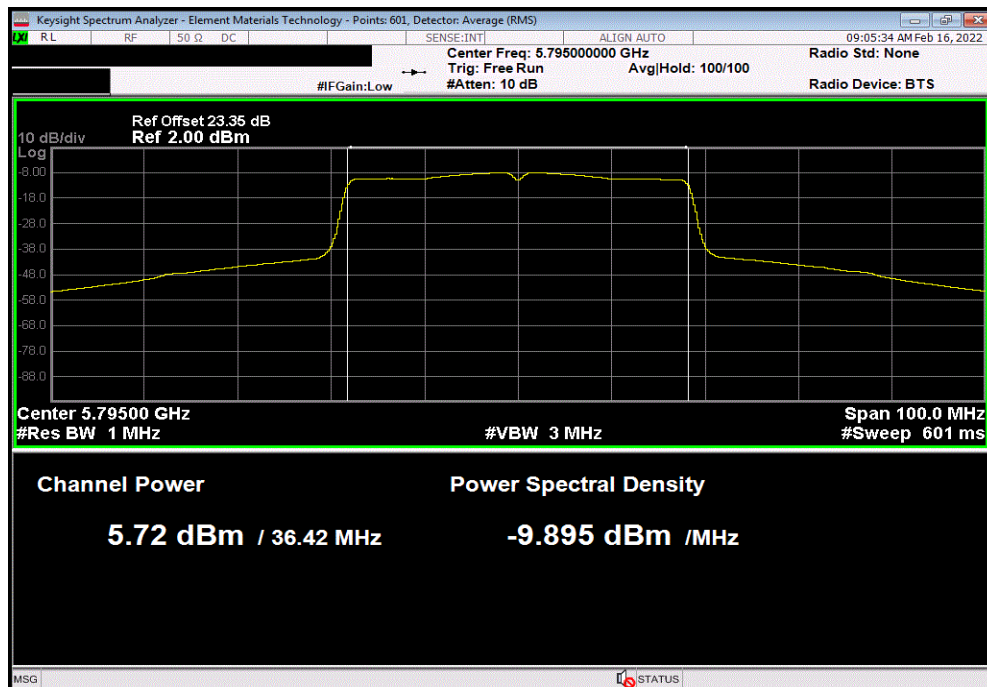


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT40, Low Channel, Ch 149/153 - 5755 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.814	0.8	7.6	5.2	12.8	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS9						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.718	0.1	5.8	5.2	11	36	Pass

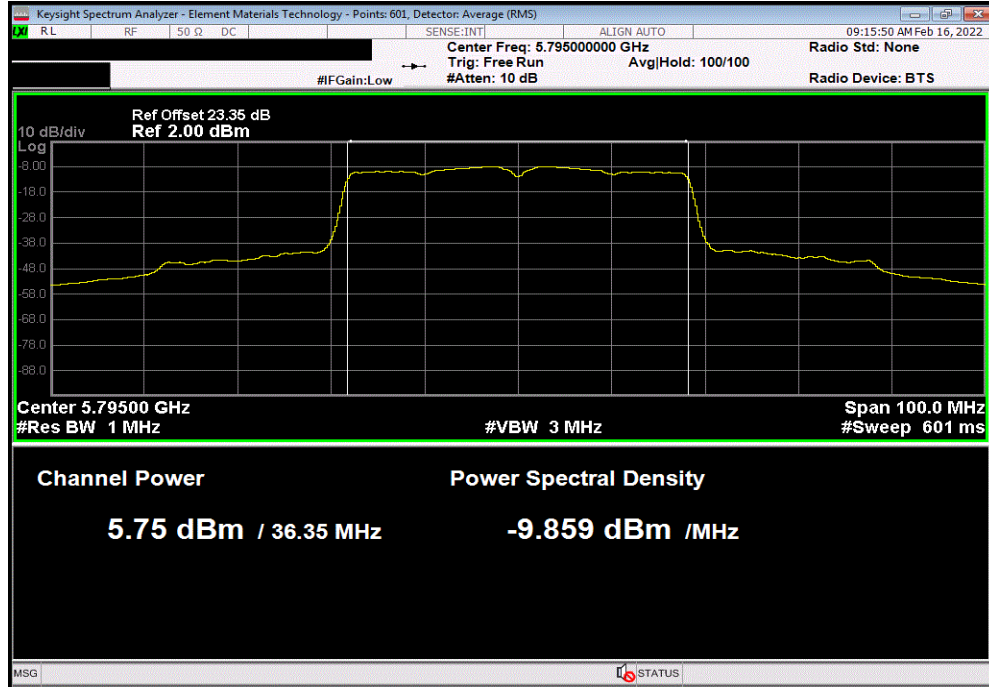


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

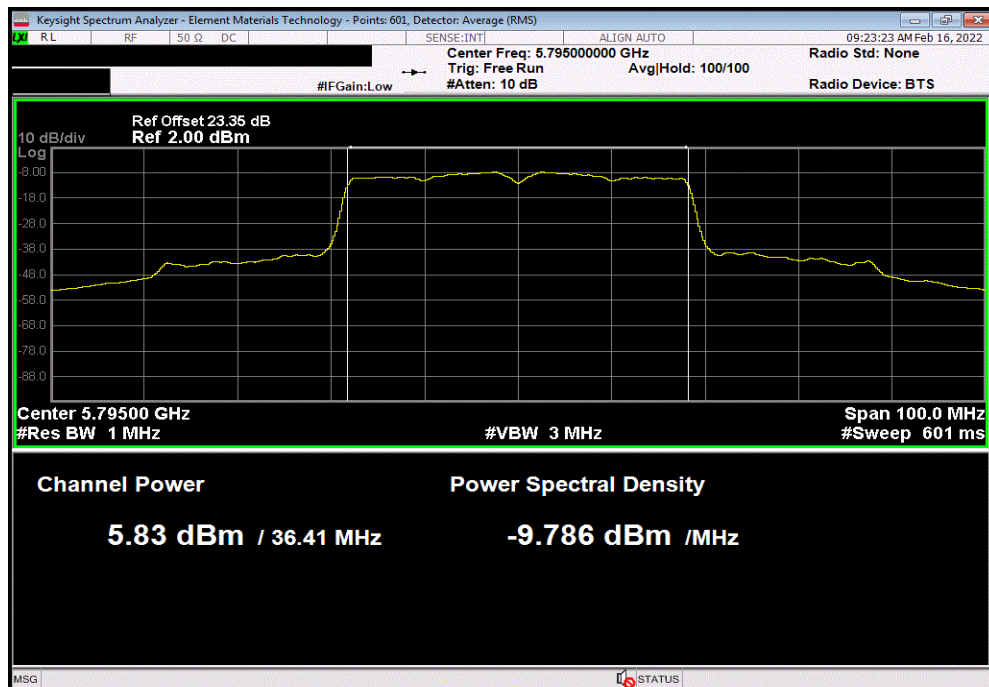


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS7						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.747	0.7	6.4	5.2	11.6	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT40, High Channel, Ch 157/161 - 5795 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.826	0.8	6.6	5.2	11.8	36	Pass

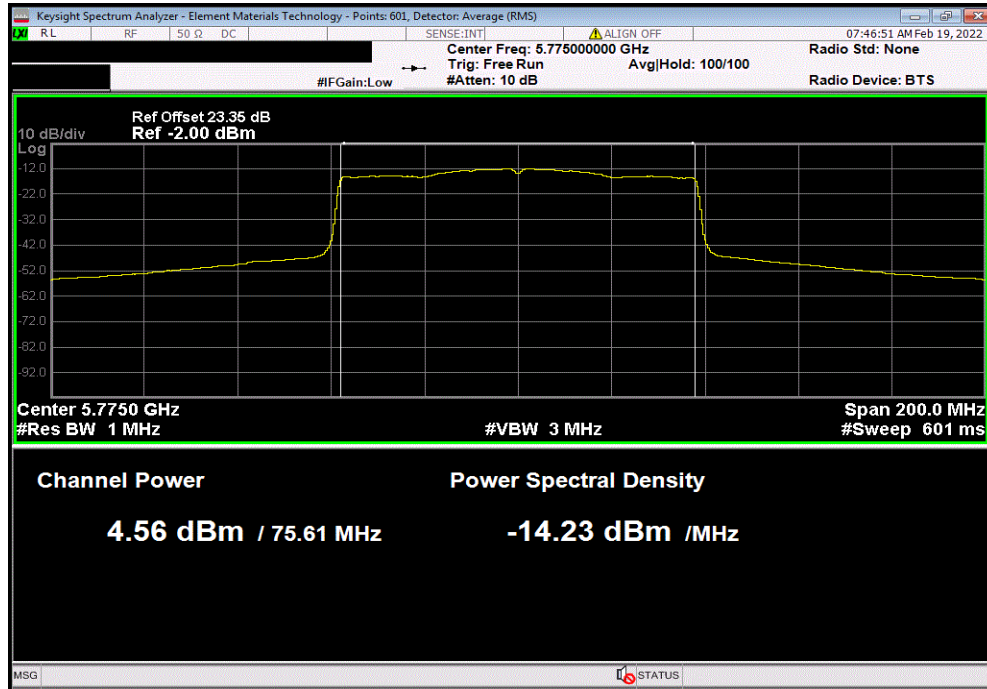


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

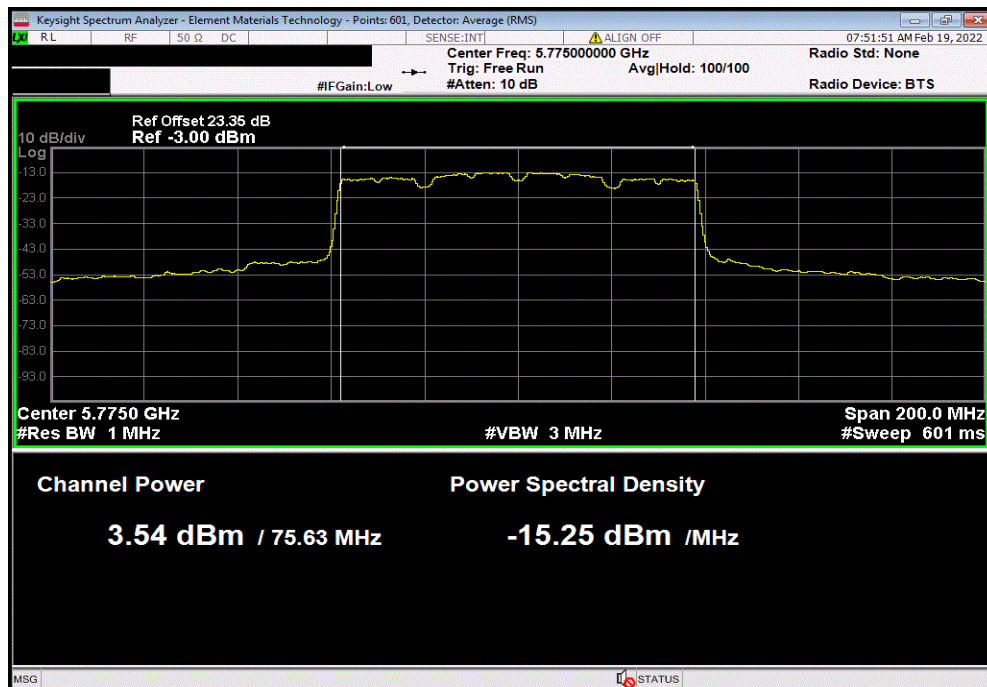


TbTx 2021.03.19.1 XMt 2022.02.07.0

5725 - 5785 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS0						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
4.558	0.2	4.8	5.2	10	36	Pass



5725 - 5785 MHz Band, 802.11(n/ac) VHT80, Low Channel, Ch 149-161 - 5775 MHz, MCS9 (256-QAM)						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
3.539	1.1	4.6	5.2	9.8	36	Pass



EMISSION BANDWIDTH - 5.2 GHz BANDS



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 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 12.4.1, 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 the 26 dB emission bandwidth. The 99% bandwidth was also reported.

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 - 5.2 GHz BANDS



TSTx 2021.03.19.1 XMR 2020.12.30.0

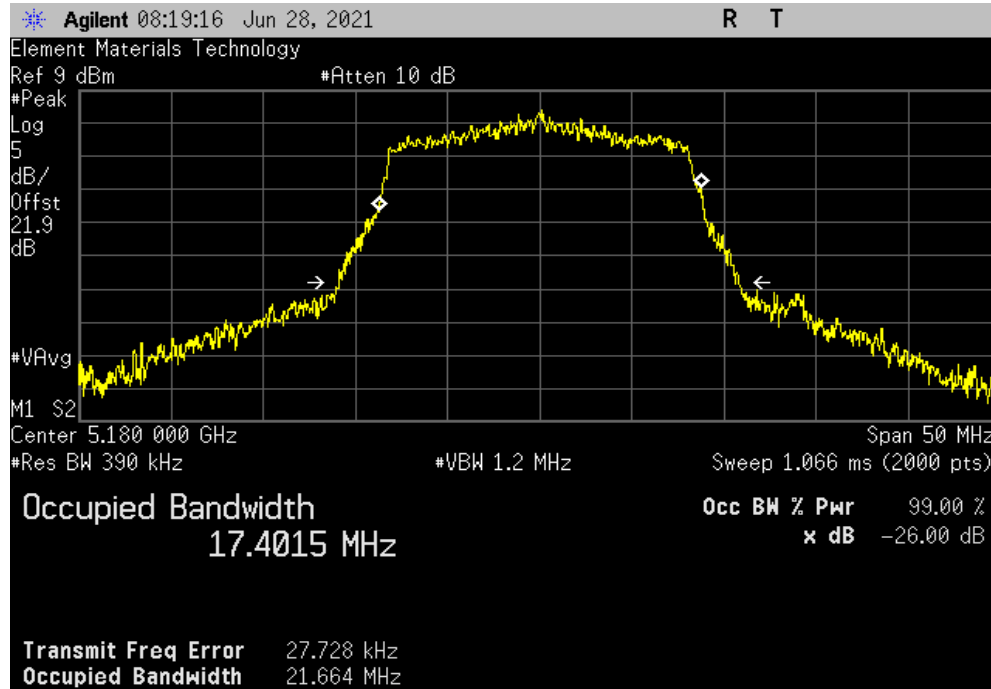
EUT: 43.0536.00		Work Order: A-DE0162			
Serial Number: SN001 00003		Date: 28-Jun-21			
Customer: A-dec, Inc.		Temperature: 25 °C			
Attendees: Zach Lyda		Humidity: 49% RH			
Project: None		Barometric Pres.: 1006 mbar			
Tested by: Jeff Alcoke		Power: 3.3 VDC via 110VAC/60Hz			
TEST SPECIFICATIONS		Job Site: EV06			
FCC 15.407:2021		Test Method			
		ANSI C63.10:2013			
COMMENTS					
Reference level offset: DC Block, 20 dB attenuator, and measurement cable.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	1	Signature 			
		Value (%)	Value (dB)	Limit	Result
20 MHz					
802.11(a) 6 Mbps					
Ch 36, Low Channel 5180 MHz		17.401 MHz	21.664 MHz	N/A	N/A
Ch 40, Mid Channel 5200 MHz		17.12 MHz	21.583 MHz	N/A	N/A
Ch 48, High Channel 5240 MHz		17.209 MHz	21.633 MHz	N/A	N/A
802.11(a) 36 Mbps					
Ch 36, Low Channel 5180 MHz		16.85 MHz	21.496 MHz	N/A	N/A
Ch 40, Mid Channel 5200 MHz		16.826 MHz	21.386 MHz	N/A	N/A
Ch 48, High Channel 5240 MHz		16.785 MHz	21.195 MHz	N/A	N/A
802.11(a) 54 Mbps					
Ch 36, Low Channel 5180 MHz		16.723 MHz	21.667 MHz	N/A	N/A
Ch 40, Mid Channel 5200 MHz		16.718 MHz	21.527 MHz	N/A	N/A
Ch 48, High Channel 5240 MHz		16.688 MHz	21.891 MHz	N/A	N/A
802.11(n) MCS0					
Ch 36, Low Channel 5180 MHz		18.268 MHz	22.149 MHz	N/A	N/A
Ch 40, Mid Channel 5200 MHz		18.101 MHz	21.87 MHz	N/A	N/A
Ch 48, High Channel 5240 MHz		18.13 MHz	23.493 MHz	N/A	N/A
802.11(n) MCS7					
Ch 36, Low Channel 5180 MHz		17.928 MHz	21.473 MHz	N/A	N/A
Ch 40, Mid Channel 5200 MHz		17.922 MHz	21.656 MHz	N/A	N/A
Ch 48, High Channel 5240 MHz		17.9 MHz	21.678 MHz	N/A	N/A
802.11(ac) MCS8 (256-QAM)					
Ch 36, Low Channel 5180 MHz		17.921 MHz	21.402 MHz	N/A	N/A
Ch 40, Mid Channel 5200 MHz		17.855 MHz	21.235 MHz	N/A	N/A
Ch 48, High Channel 5240 MHz		17.899 MHz	21.459 MHz	N/A	N/A
40 MHz					
802.11(n) MCS0					
Ch 36/40, Low Channel 5190 MHz		36.466 MHz	41.375 MHz	N/A	N/A
Ch 44/48, High Channel 5230 MHz		36.335 MHz	40.454 MHz	N/A	N/A
802.11(n) MCS7					
Ch 36/40, Low Channel 5190 MHz		36.499 MHz	40.556 MHz	N/A	N/A
Ch 44/48, High Channel 5230 MHz		36.459 MHz	40.774 MHz	N/A	N/A
802.11(ac) MCS9 (256-QAM)					
Ch 36/40, Low Channel 5190 MHz		36.624 MHz	40.68 MHz	N/A	N/A
Ch 44/48, High Channel 5230 MHz		36.697 MHz	40.6 MHz	N/A	N/A
80 MHz					
802.11(ac) MCS0					
Ch 36-48, Low Channel 5210 MHz		75.658 MHz	81.729 MHz	N/A	N/A
802.11(ac) MCS9 (256-QAM)					
Ch 36-48, Low Channel 5210 MHz		75.688 MHz	81.693 MHz	N/A	N/A

EMISSION BANDWIDTH - 5.2 GHz BANDS

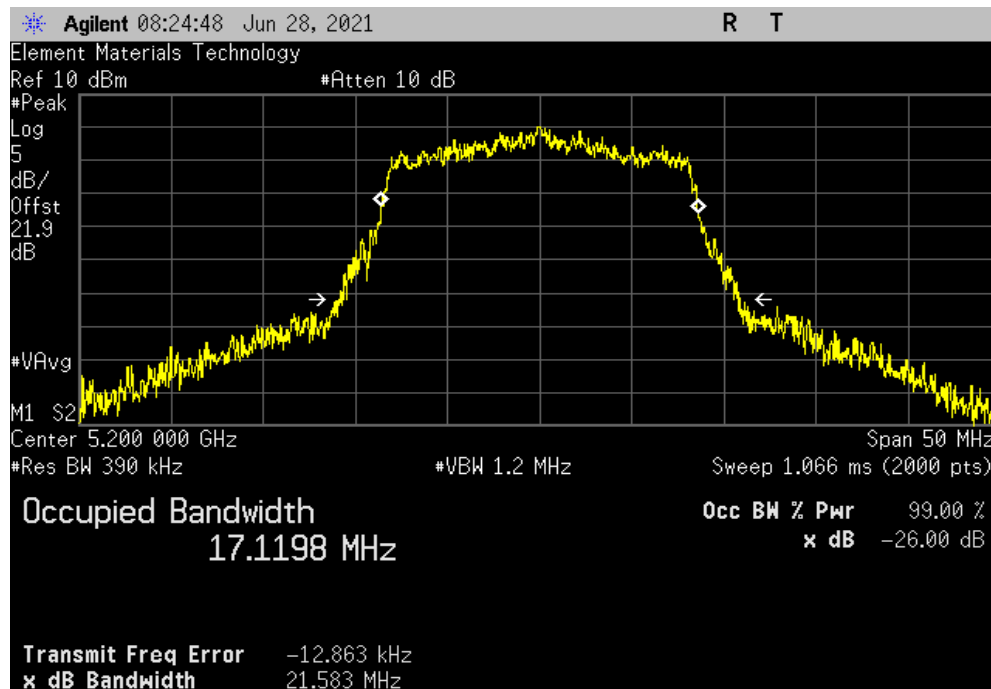


TUTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 36, Low Channel 5180 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.401 MHz	21.664 MHz	N/A	N/A



20 MHz, 802.11(a) 6 Mbps, Ch 40, Mid Channel 5200 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.12 MHz	21.583 MHz	N/A	N/A

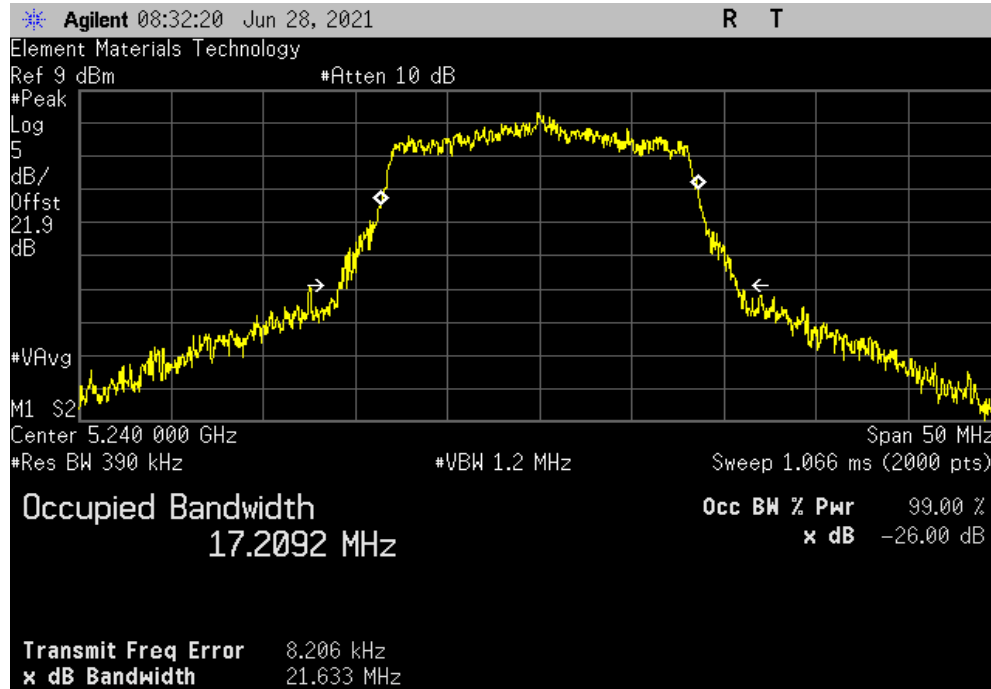


EMISSION BANDWIDTH - 5.2 GHz BANDS

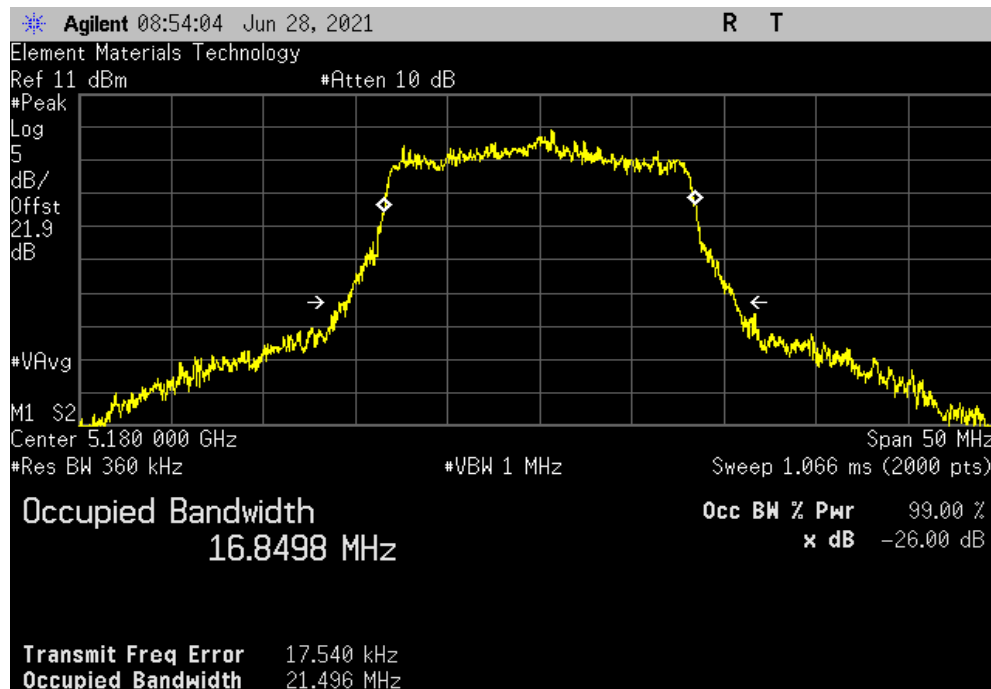


TUTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 48, High Channel 5240 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.209 MHz	21.633 MHz	N/A	N/A



20 MHz, 802.11(a) 36 Mbps, Ch 36, Low Channel 5180 MHz						
			Value (%)	Value (dB)	Limit	Result
			16.85 MHz	21.496 MHz	N/A	N/A

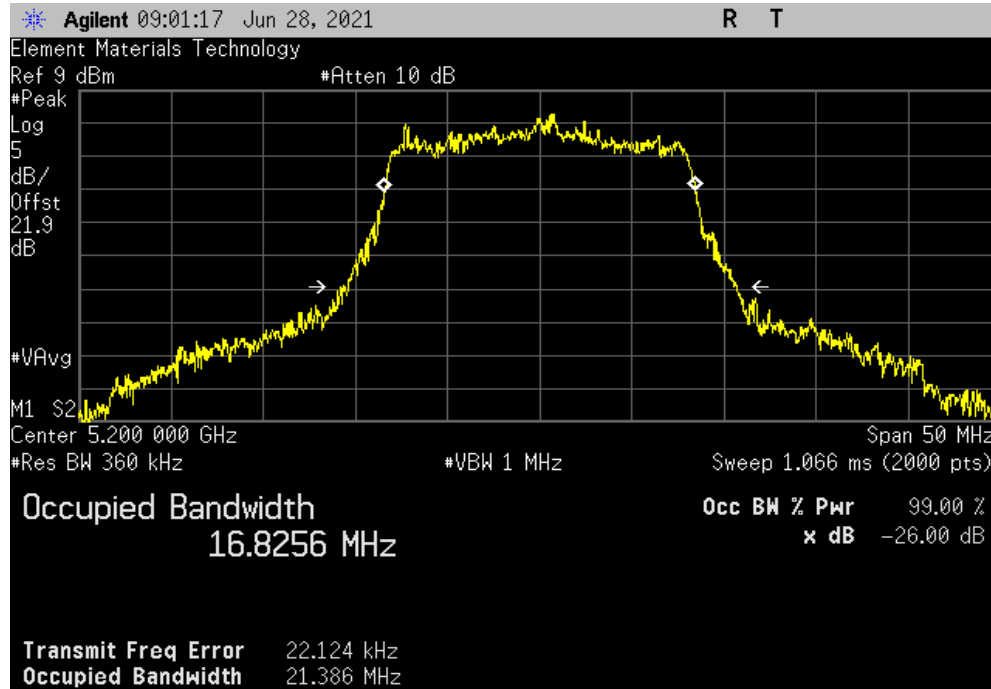


EMISSION BANDWIDTH - 5.2 GHz BANDS

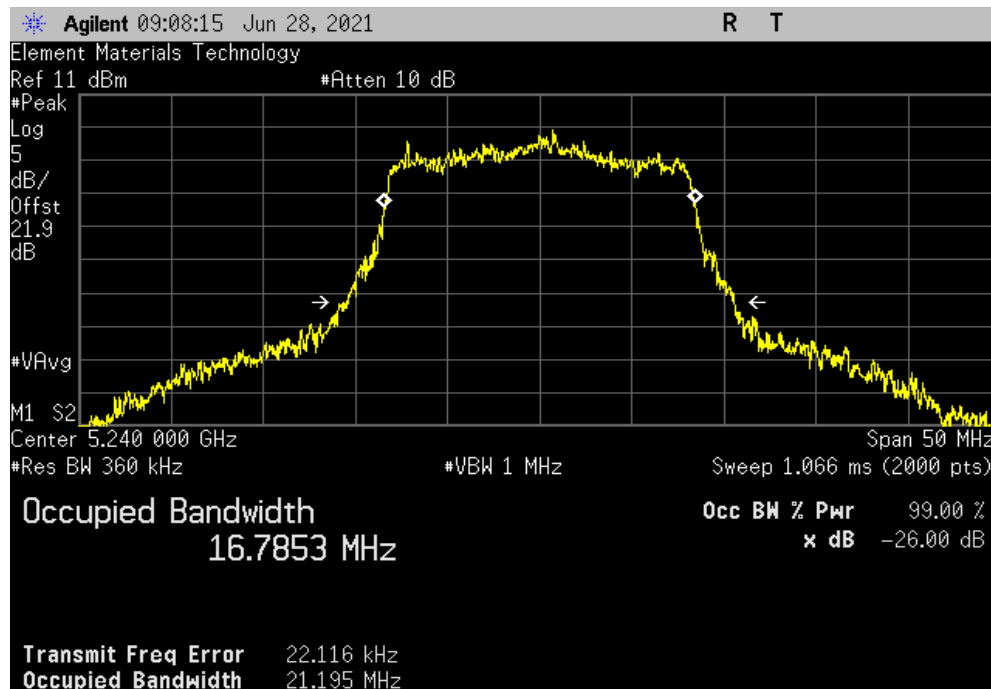


TUTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 36 Mbps, Ch 40, Mid Channel 5200 MHz						
			Value (%)	Value (dB)	Limit	Result
			16.826 MHz	21.386 MHz	N/A	N/A



20 MHz, 802.11(a) 36 Mbps, Ch 48, High Channel 5240 MHz						
			Value (%)	Value (dB)	Limit	Result
			16.785 MHz	21.195 MHz	N/A	N/A

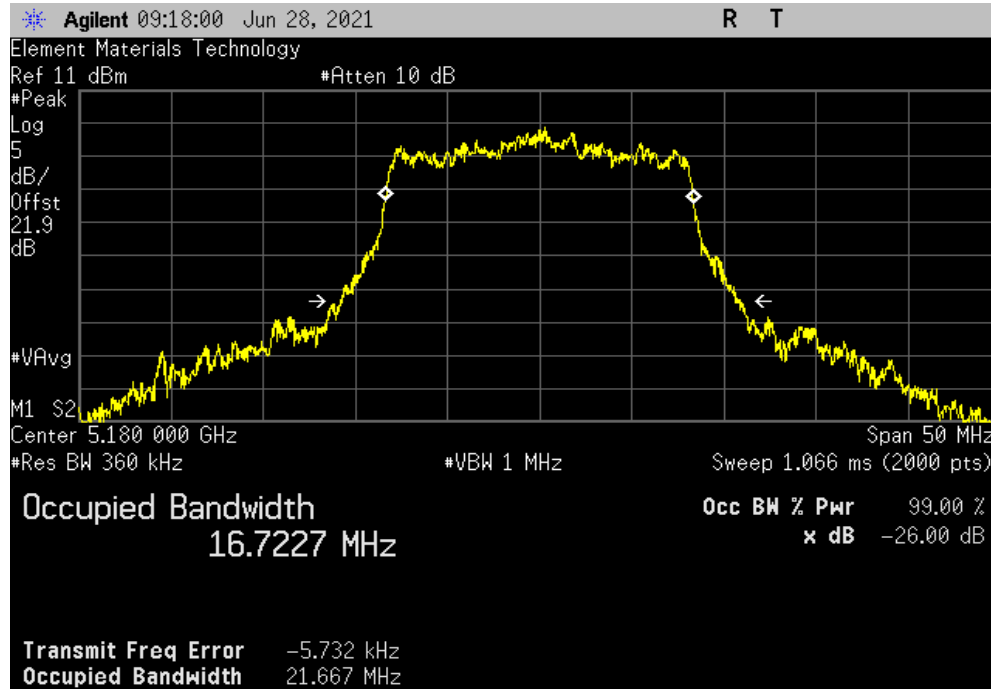


EMISSION BANDWIDTH - 5.2 GHz BANDS

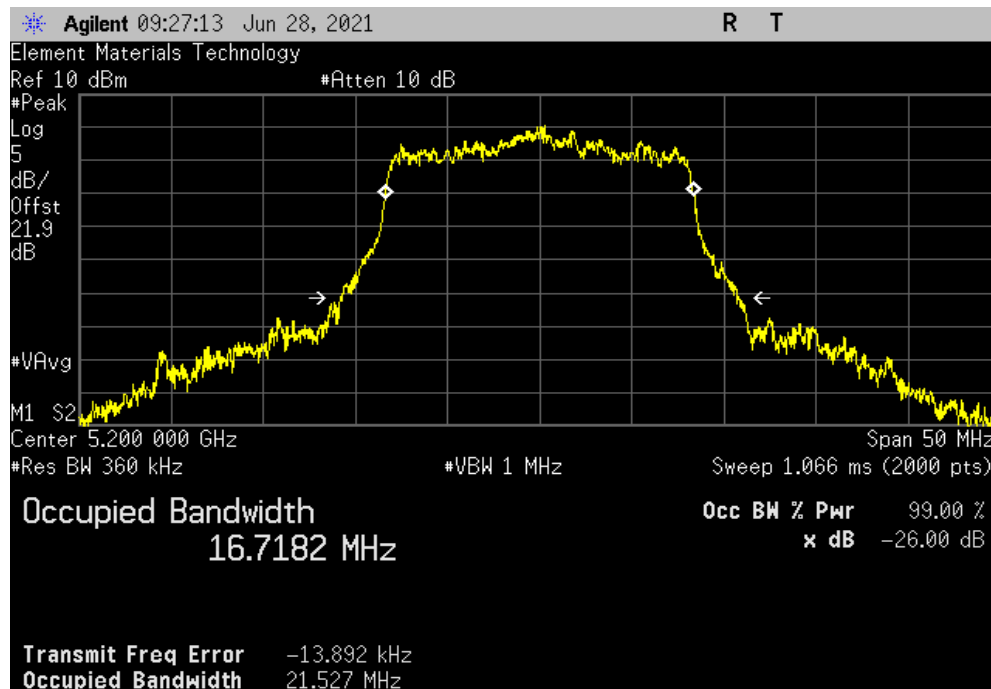


TUTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 36, Low Channel 5180 MHz						
			Value (%)	Value (dB)	Limit	Result
			16.723 MHz	21.667 MHz	N/A	N/A



20 MHz, 802.11(a) 54 Mbps, Ch 40, Mid Channel 5200 MHz						
			Value (%)	Value (dB)	Limit	Result
			16.718 MHz	21.527 MHz	N/A	N/A

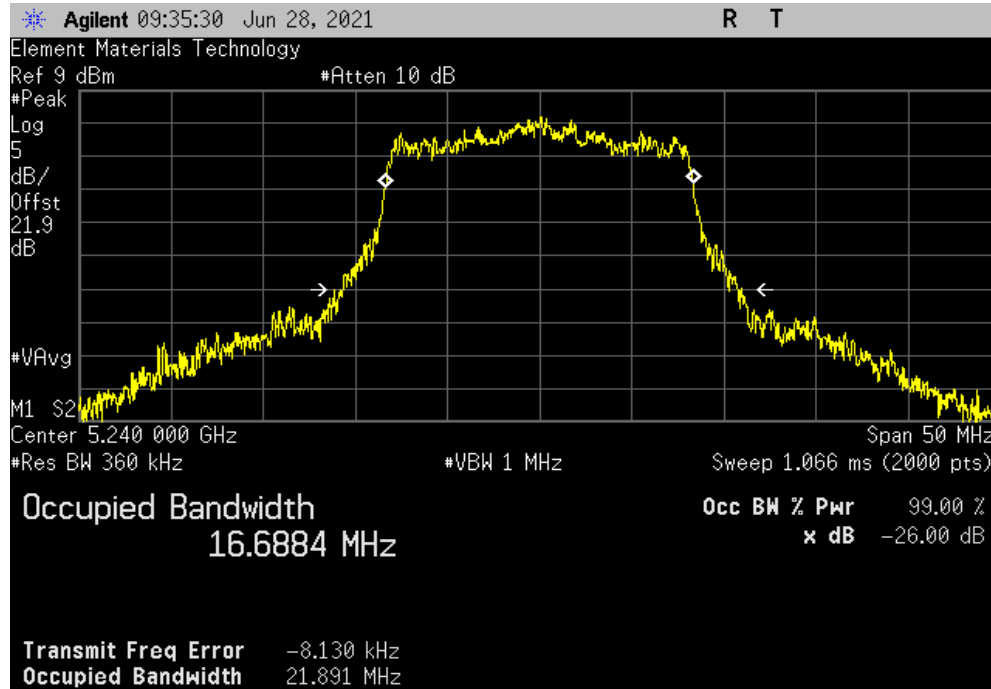


EMISSION BANDWIDTH - 5.2 GHz BANDS

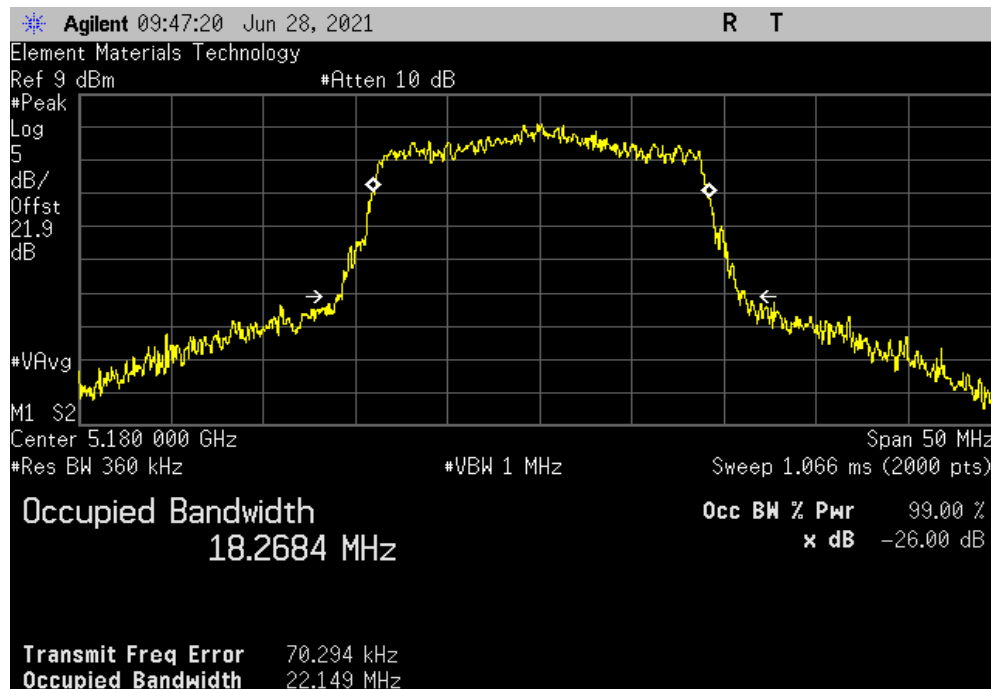


TUTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 48, High Channel 5240 MHz						
			Value (%)	Value (dB)	Limit	Result
			16.688 MHz	21.891 MHz	N/A	N/A



20 MHz, 802.11(n) MCS0, Ch 36, Low Channel 5180 MHz						
			Value (%)	Value (dB)	Limit	Result
			18.268 MHz	22.149 MHz	N/A	N/A

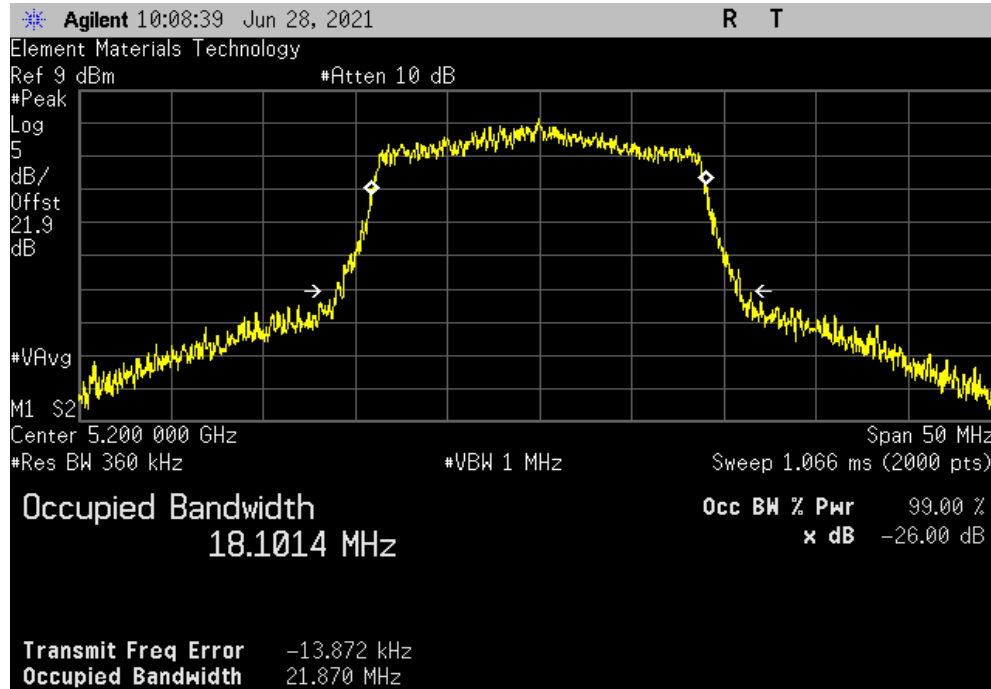


EMISSION BANDWIDTH - 5.2 GHz BANDS

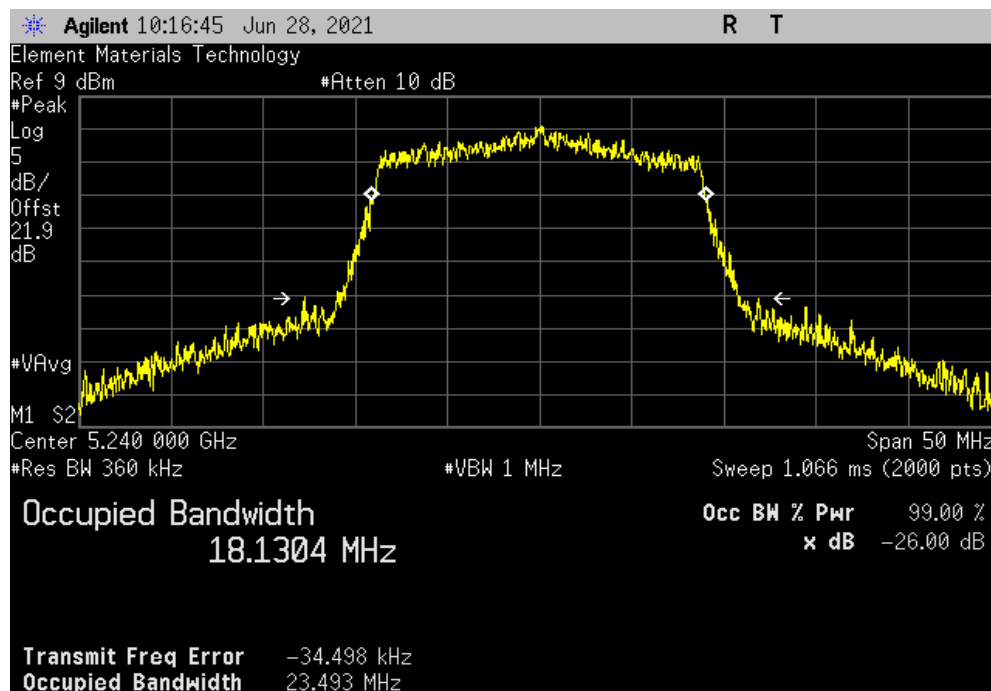


TUTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS0, Ch 40, Mid Channel 5200 MHz						
			Value (%)	Value (dB)	Limit	Result
			18.101 MHz	21.87 MHz	N/A	N/A



20 MHz, 802.11(n) MCS0, Ch 48, High Channel 5240 MHz						
			Value (%)	Value (dB)	Limit	Result
			18.13 MHz	23.493 MHz	N/A	N/A

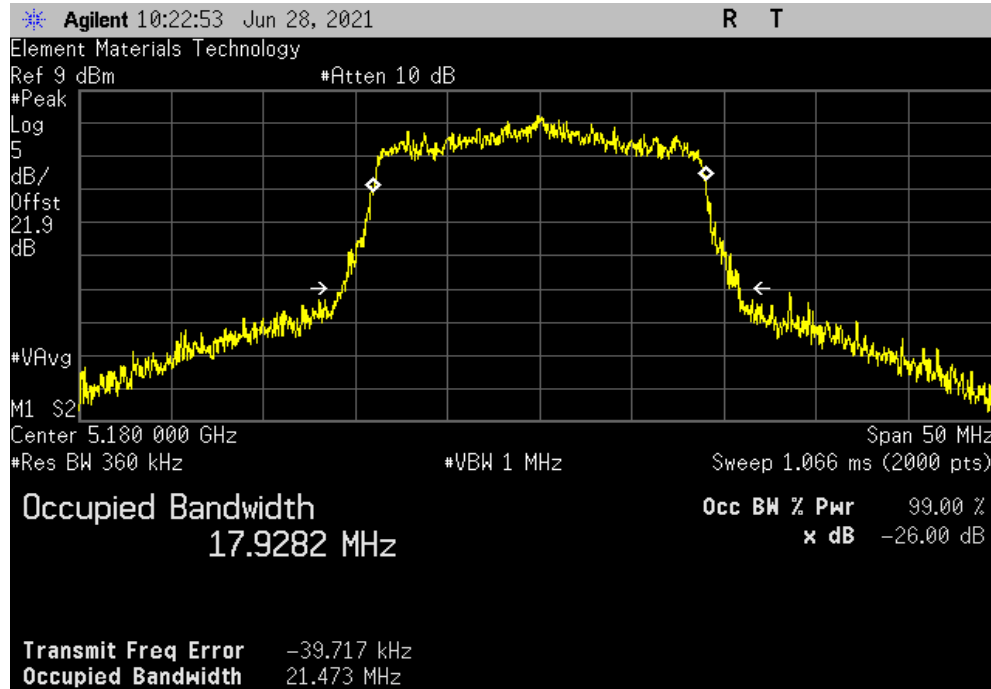


EMISSION BANDWIDTH - 5.2 GHz BANDS

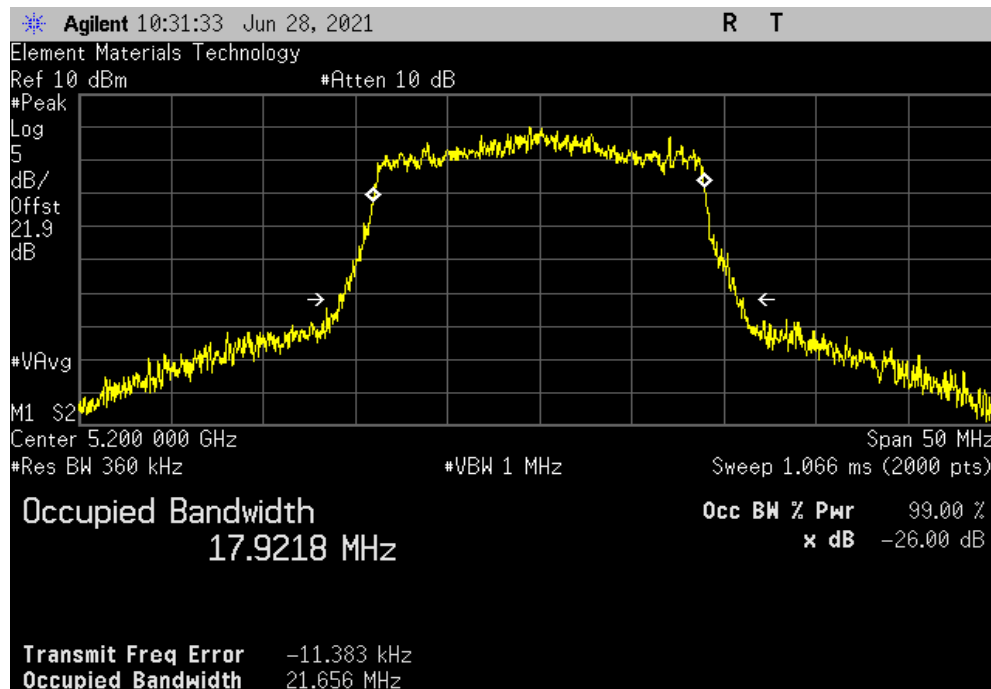


TMTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 36, Low Channel 5180 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.928 MHz	21.473 MHz	N/A	N/A



20 MHz, 802.11(n) MCS7, Ch 40, Mid Channel 5200 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.922 MHz	21.656 MHz	N/A	N/A

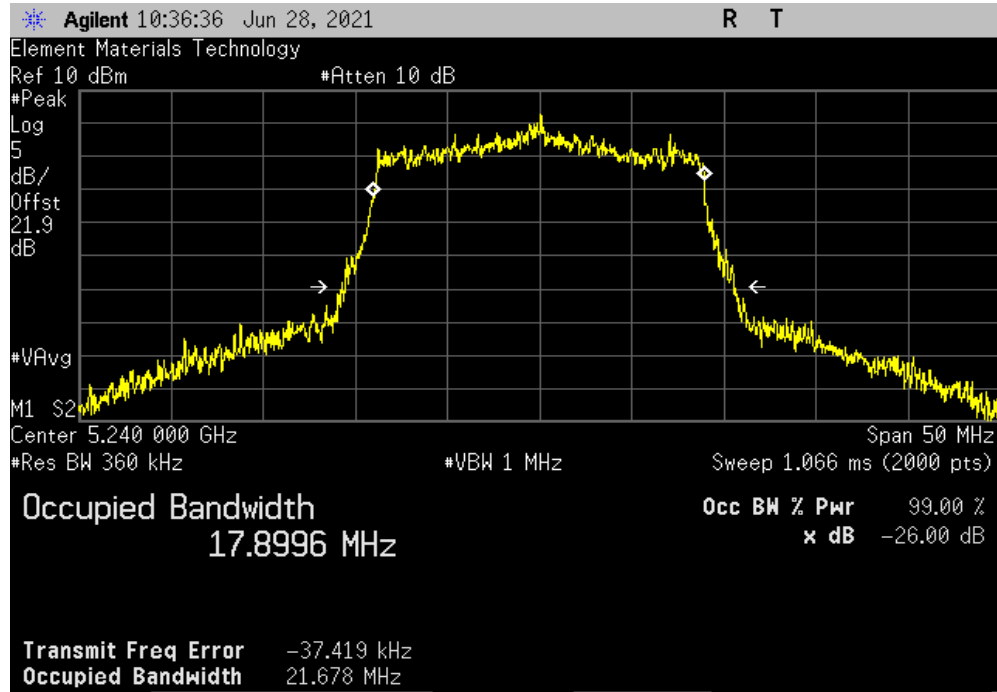


EMISSION BANDWIDTH - 5.2 GHz BANDS

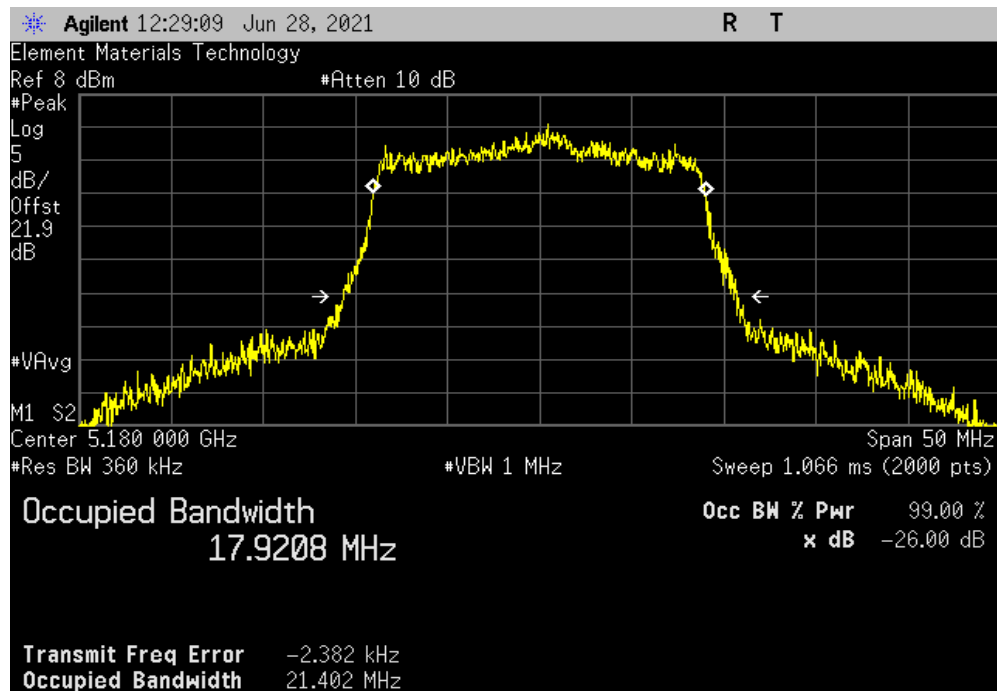


TMTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 48, High Channel 5240 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.9 MHz	21.678 MHz	N/A	N/A



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 36, Low Channel 5180 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.921 MHz	21.402 MHz	N/A	N/A

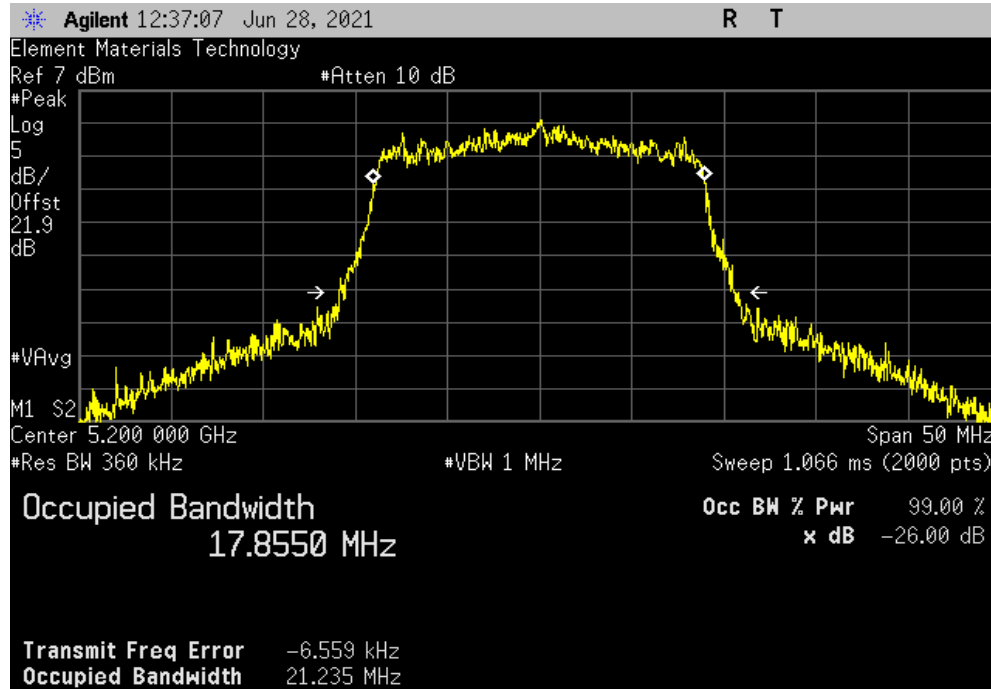


EMISSION BANDWIDTH - 5.2 GHz BANDS

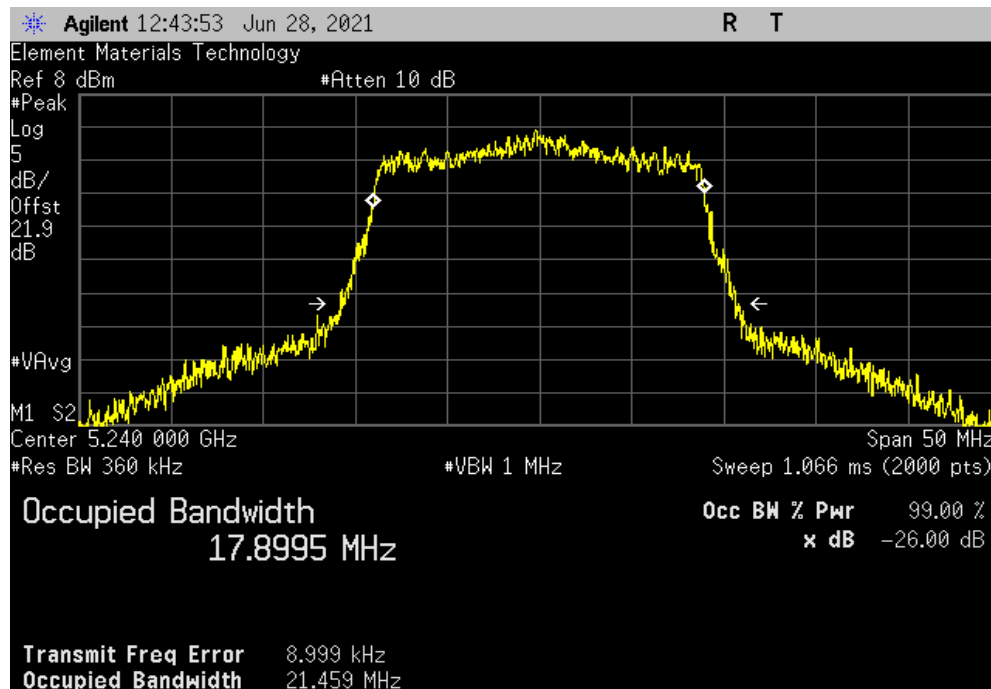


TbTx 2021.03.19.1 XMR 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 40, Mid Channel 5200 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.855 MHz	21.235 MHz	N/A	N/A



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 48, High Channel 5240 MHz						
			Value (%)	Value (dB)	Limit	Result
			17.899 MHz	21.459 MHz	N/A	N/A

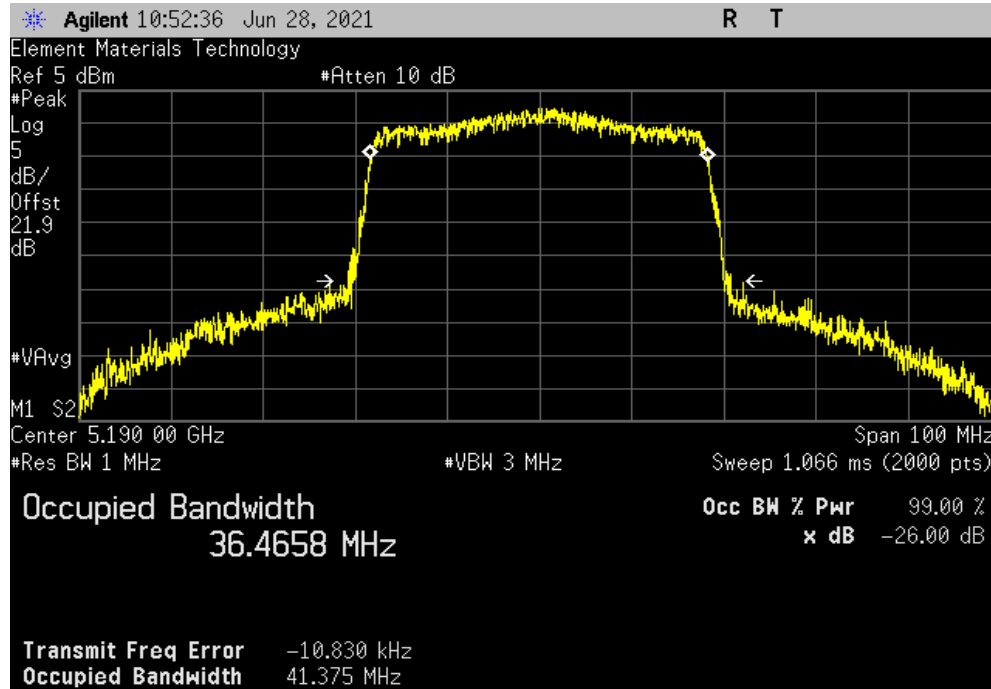


EMISSION BANDWIDTH - 5.2 GHz BANDS

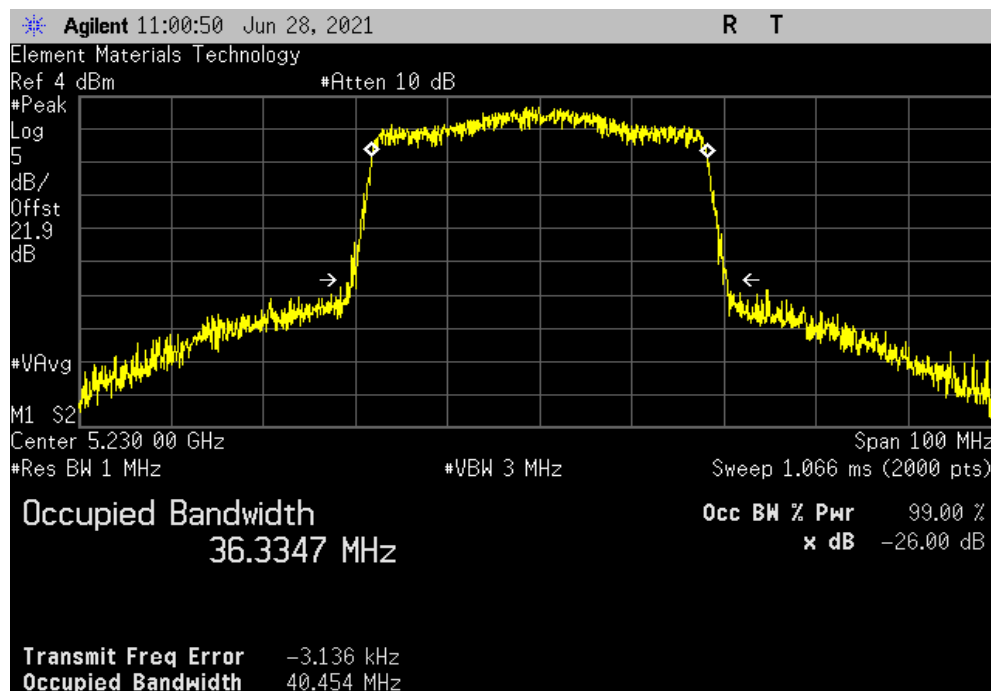


TUTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(n) MCS0, Ch 36/40, Low Channel 5190 MHz						
			Value (%)	Value (dB)	Limit	Result
			36.466 MHz	41.375 MHz	N/A	N/A



40 MHz, 802.11(n) MCS0, Ch 44/48, High Channel 5230 MHz						
			Value (%)	Value (dB)	Limit	Result
			36.335 MHz	40.454 MHz	N/A	N/A

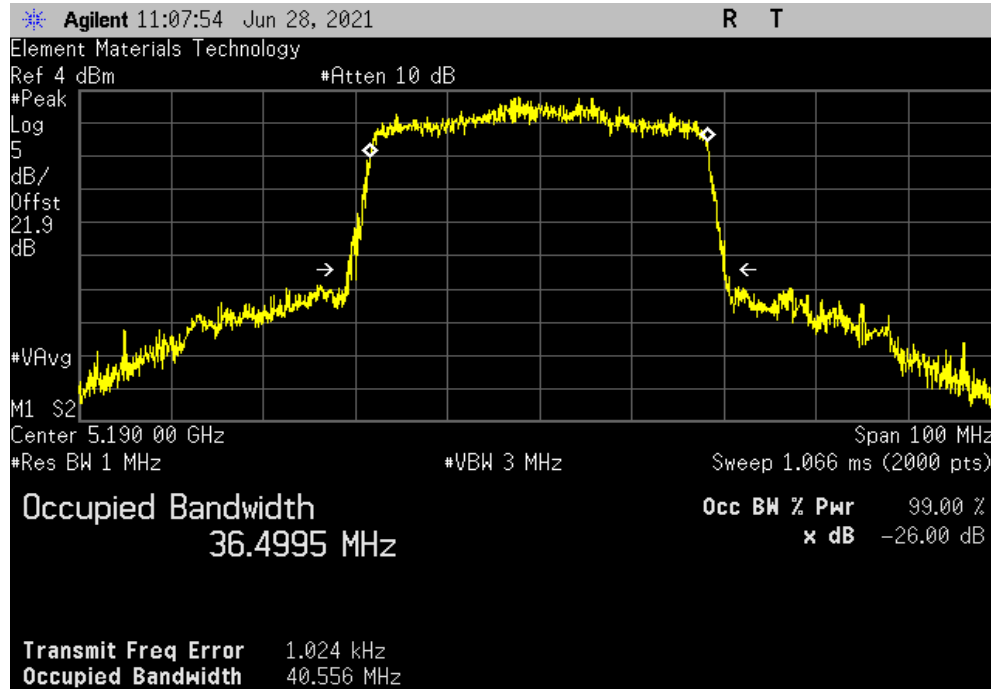


EMISSION BANDWIDTH - 5.2 GHz BANDS

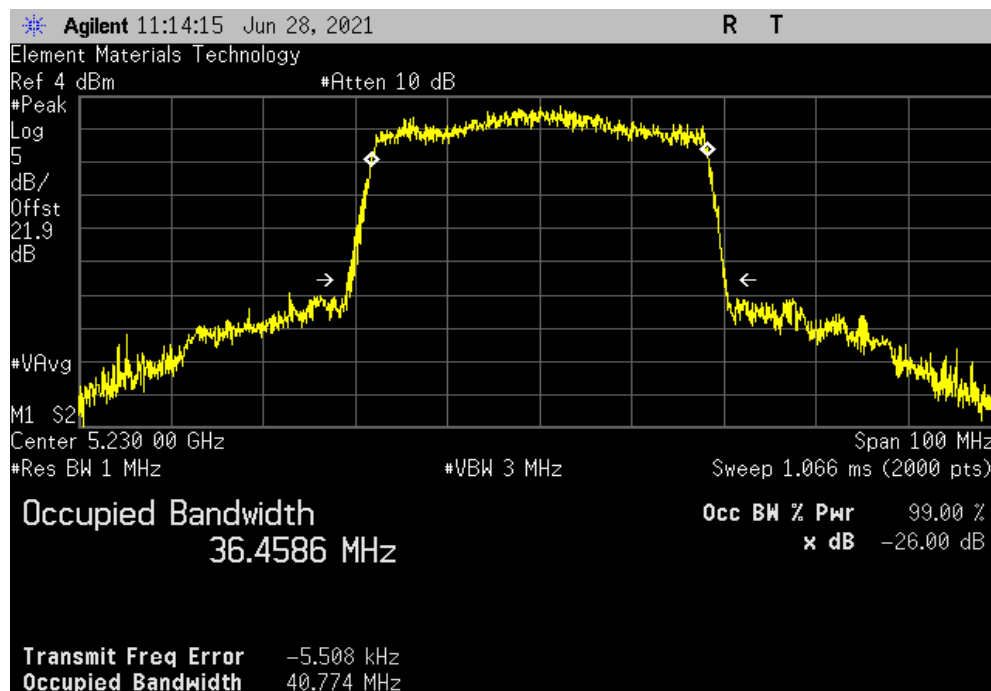


TUTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(n) MCS7, Ch 36/40, Low Channel 5190 MHz						
			Value (%)	Value (dB)	Limit	Result
			36.499 MHz	40.556 MHz	N/A	N/A



40 MHz, 802.11(n) MCS7, Ch 44/48, High Channel 5230 MHz						
			Value (%)	Value (dB)	Limit	Result
			36.459 MHz	40.774 MHz	N/A	N/A

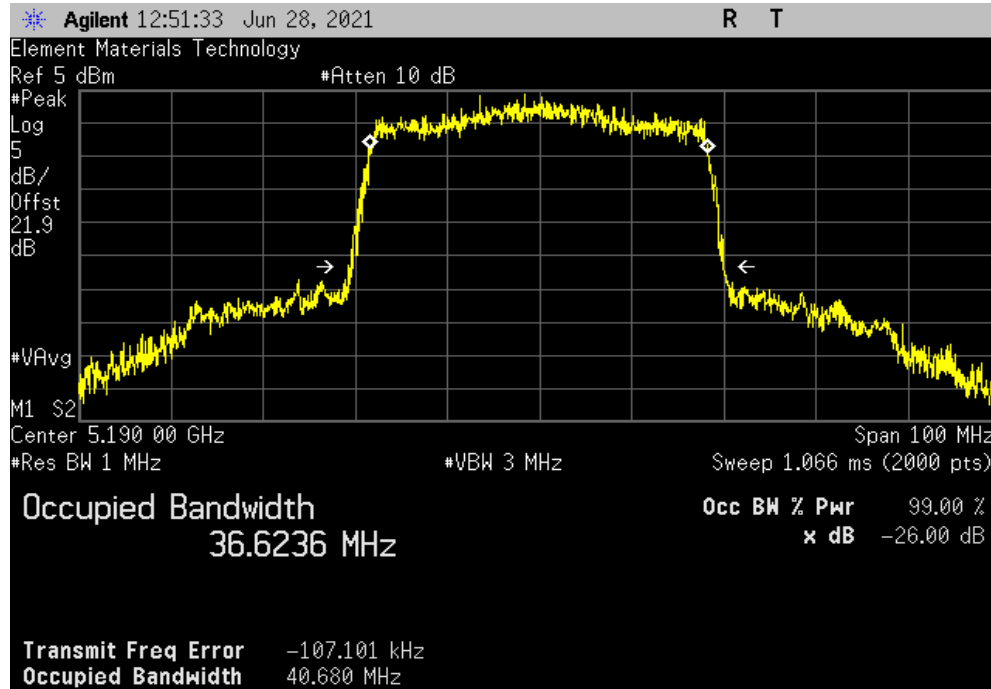


EMISSION BANDWIDTH - 5.2 GHz BANDS

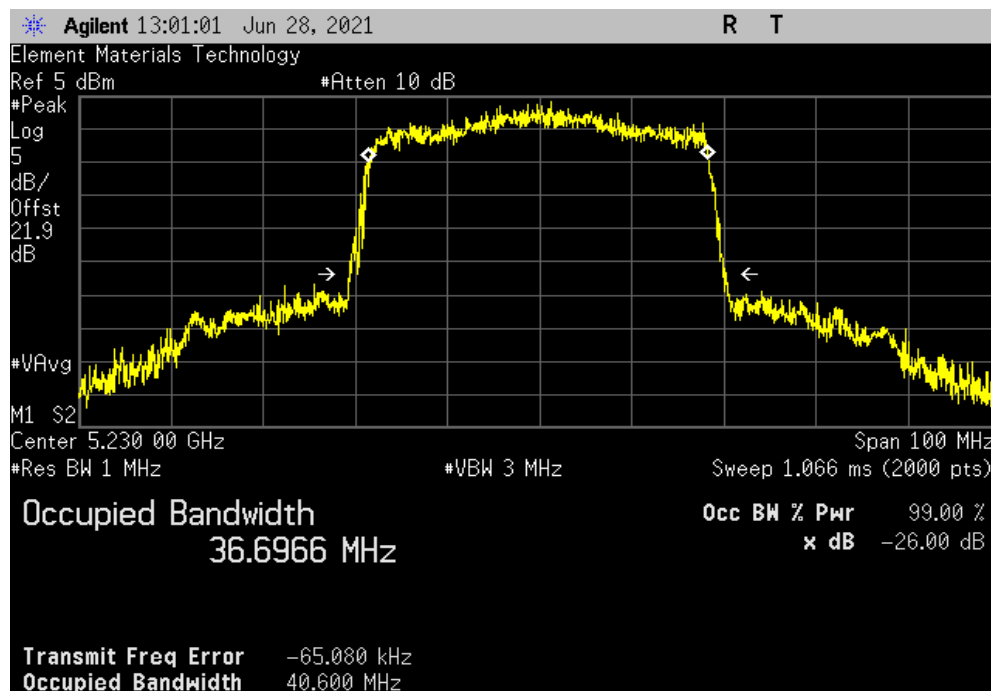


TUTTx 2021.03.19.1 XMR 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36/40, Low Channel 5190 MHz						
			Value (%)	Value (dB)	Limit	Result
			36.624 MHz	40.68 MHz	N/A	N/A



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 44/48, High Channel 5230 MHz						
			Value (%)	Value (dB)	Limit	Result
			36.697 MHz	40.6 MHz	N/A	N/A

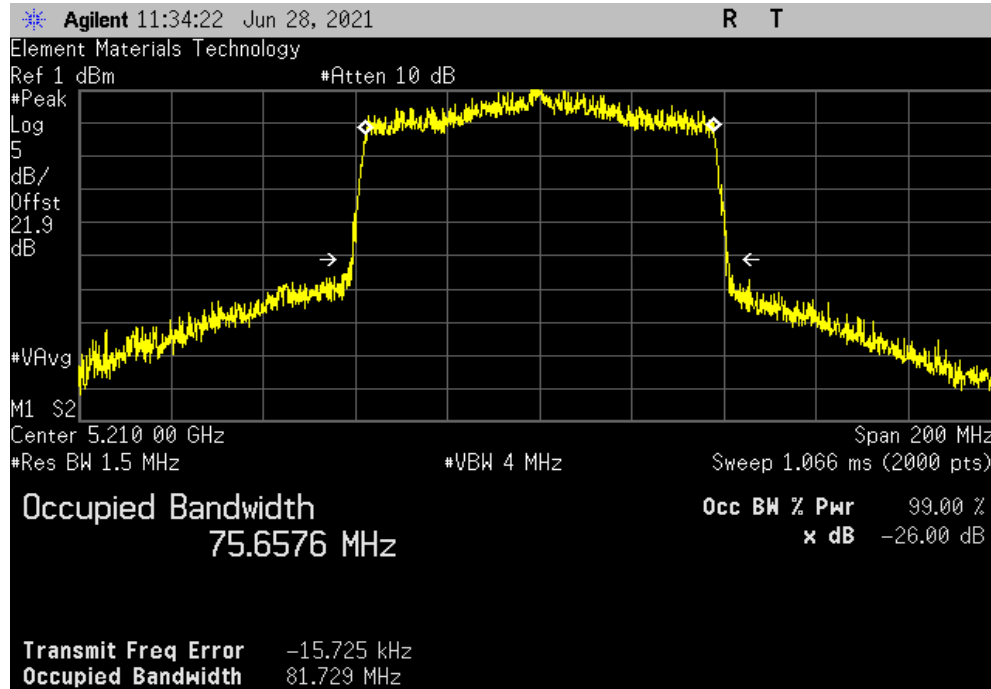


EMISSION BANDWIDTH - 5.2 GHz BANDS



TUTTx 2021.03.19.1 XMR 2020.12.30.0

80 MHz, 802.11(ac) MCS0, Ch 36-48, Low Channel 5210 MHz						
			Value (%)	Value (dB)	Limit	Result
			75.658 MHz	81.729 MHz	N/A	N/A



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 36-48, Low Channel 5210 MHz						
			Value (%)	Value (dB)	Limit	Result
			75.688 MHz	81.693 MHz	N/A	N/A

