

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND



element

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	Agilent	N5181A	TIG	2020-04-16	2023-04-16
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, 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 $10 \cdot \text{LOG}(1/D)$ where D is the duty cycle.

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

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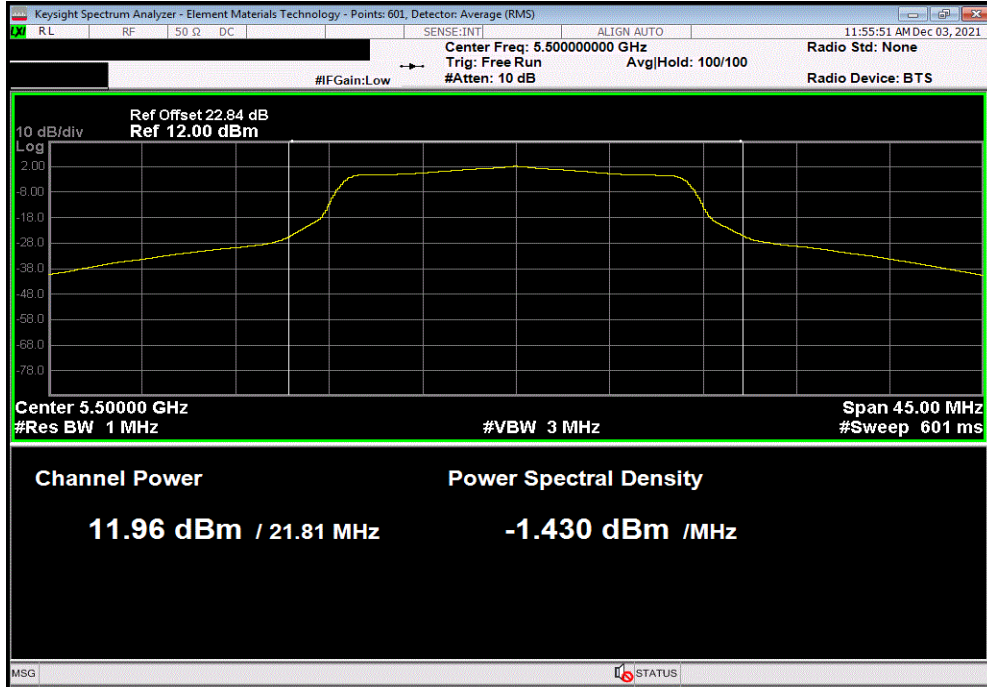
EUT: A-dec Gateway		Work Order: A-DE0169	
Serial Number: 521A000118		Date: 7-Mar-22	
Customer: A-dec, Inc.		Temperature: 20.2 °C	
Attendees: None		Humidity: 39.8% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Jeff Alcoke		Power: 24 VDC via 110VAC/60Hz	
TEST SPECIFICATIONS		Job Site: EV06	
FCC 15.407:2021		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	
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)
		Out Pwr (dBm)	Antenna Gain (dBi)
		EIRP (dBm)	EIRP Limit (dBm)
			Result
20 MHz			
802.11(a) 6 Mbps			
	Ch 100, Low Channel 5500 MHz	11.955	0
	Ch 116, Mid Channel 5580 MHz	11.446	0
	Ch 140, High Channel 5700 MHz	11.677	0
802.11(a) 36 Mbps			
	Ch 100, Low Channel 5500 MHz	11.757	0.2
	Ch 116, Mid Channel 5580 MHz	11.263	0.2
	Ch 140, High Channel 5700 MHz	11.448	0.2
802.11(a) 54 Mbps			
	Ch 100, Low Channel 5500 MHz	11.65	0.3
	Ch 116, Mid Channel 5580 MHz	11.523	0.3
	Ch 140, High Channel 5700 MHz	11.427	0.3
802.11(n) MCS0			
	Ch 100, Low Channel 5500 MHz	11.733	0
	Ch 116, Mid Channel 5580 MHz	11.651	0
	Ch 140, High Channel 5700 MHz	10.819	0
802.11(n) MCS7			
	Ch 100, Low Channel 5500 MHz	11.43	0.4
	Ch 116, Mid Channel 5580 MHz	10.903	0.4
	Ch 140, High Channel 5700 MHz	11.09	0.4
802.11(ac) MCS8 (256-QAM)			
	Ch 100, Low Channel 5500 MHz	8.79	0.4
	Ch 116, Mid Channel 5580 MHz	8.777	0.4
	Ch 140, High Channel 5700 MHz	8.545	0.4
40 MHz			
802.11(n) MCS0			
	Ch 100/104, Low Channel 5510 MHz	7.976	0.1
	Ch 116/120, Mid Channel 5590 MHz	7.424	0.1
	Ch 132/136, High Channel 5670 MHz	7.165	0.1
802.11(n) MCS7			
	Ch 100/104, Low Channel 5510 MHz	7.41	0.6
	Ch 116/120, Mid Channel 5590 MHz	7.491	0.6
	Ch 132/136, High Channel 5670 MHz	7.283	0.6
802.11(ac) MCS9 (256-QAM)			
	Ch 100/104, Low Channel 5510 MHz	8.112	0.7
	Ch 116/120, Mid Channel 5590 MHz	8.291	0.7
	Ch 132/136, High Channel 5670 MHz	8.162	0.7
80 MHz			
802.11(ac) MCS0			
	Ch 100-112, Low Channel 5530 MHz	6.62	0.2
	Ch 116-128, High Channel 5610 MHz	5.92	0.2
802.11(ac) MCS9 (256-QAM)			
	Ch 100-112, Low Channel 5530 MHz	5.8	1
	Ch 116-128, High Channel 5610 MHz	5.03	1

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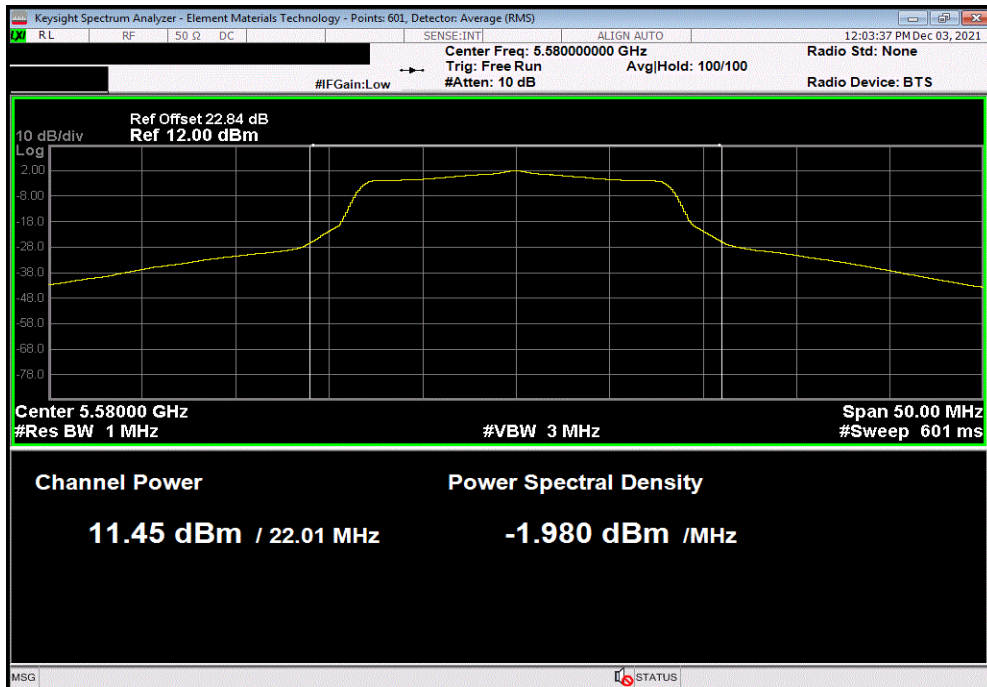


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20 MHz, 802.11(a) 6 Mbps, Ch 100, Low Channel 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.955	0	12	5.2	17.2	30	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 116, Mid Channel 5580 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.446	0	11.4	5.2	16.6	30	Pass

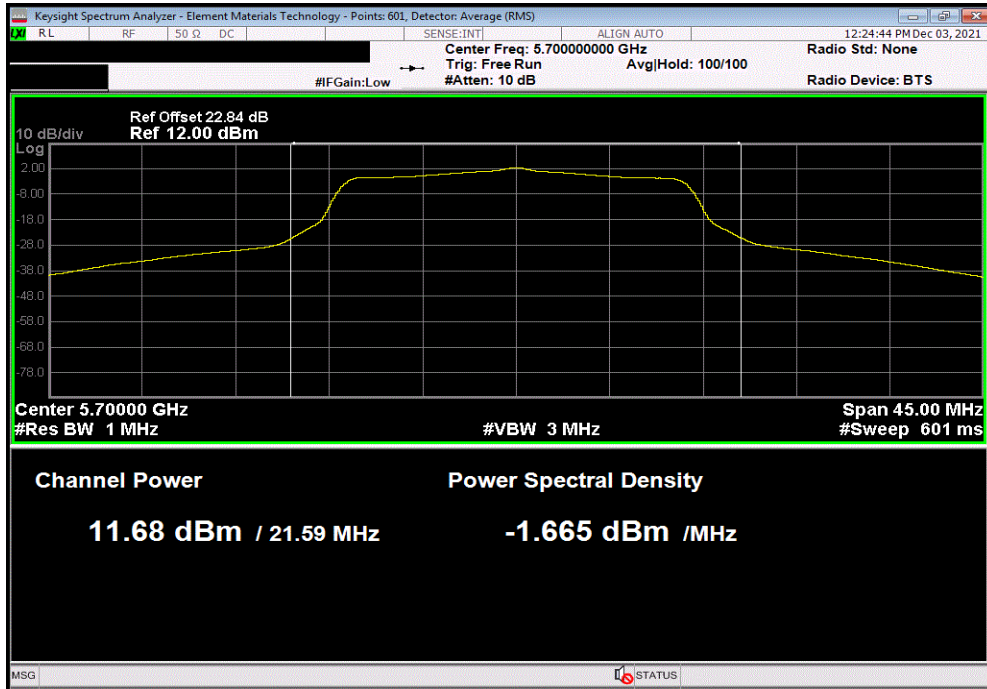


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

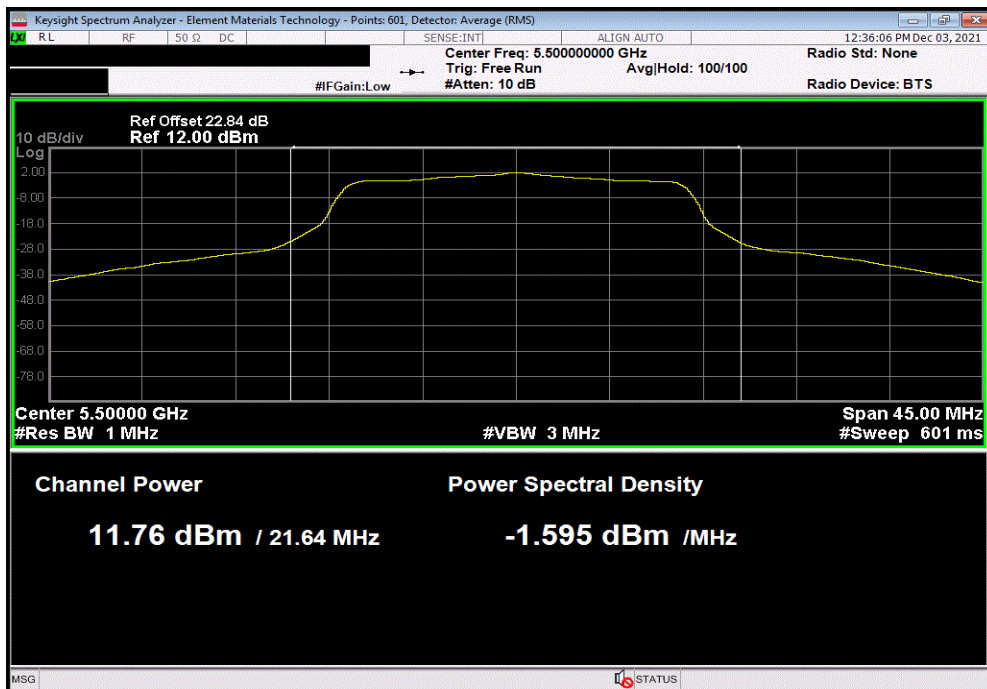


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20 MHz, 802.11(a) 6 Mbps, Ch 140, High Channel 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.677	0	11.7	5.2	16.9	30	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 100, Low Channel 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.757	0.2	12	5.2	17.2	30	Pass

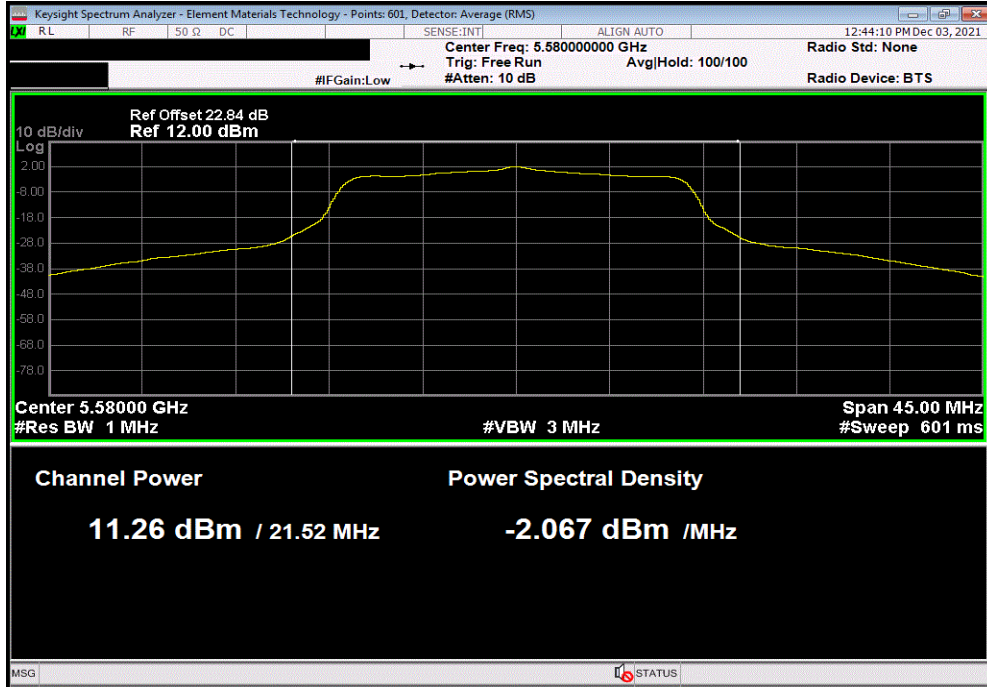


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

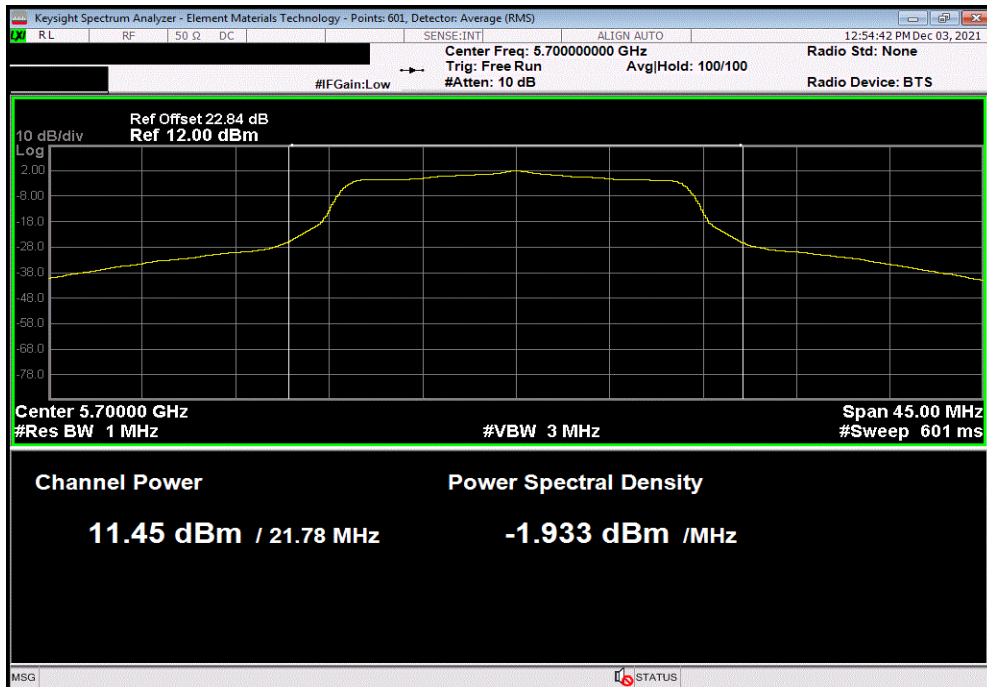


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20 MHz, 802.11(a) 36 Mbps, Ch 116, Mid Channel 5580 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.263	0.2	11.5	5.2	16.7	30	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 140, High Channel 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.448	0.2	11.6	5.2	16.8	30	Pass

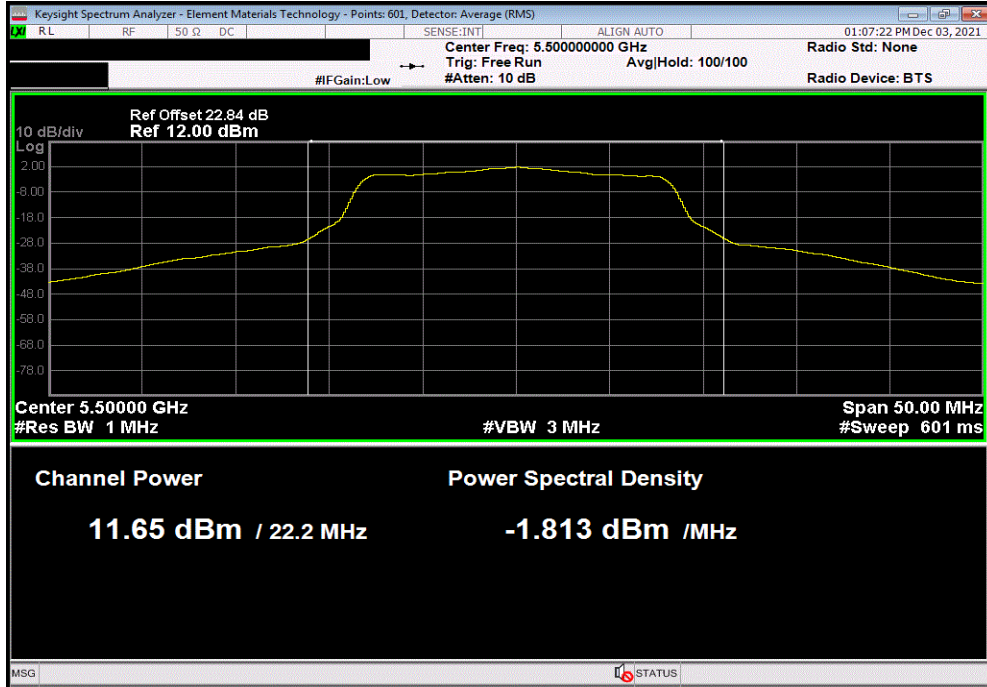


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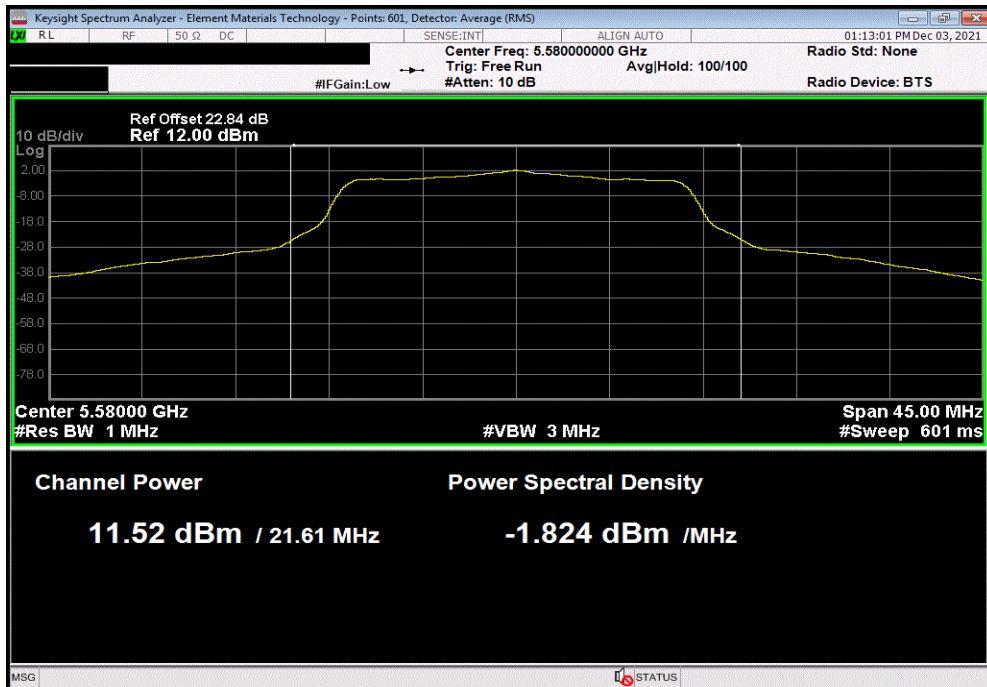


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20 MHz, 802.11(a) 54 Mbps, Ch 100, Low Channel 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.65	0.3	12	5.2	17.2	30	Pass



20 MHz, 802.11(a) 54 Mbps, Ch 116, Mid Channel 5580 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.523	0.3	11.8	5.2	17	30	Pass

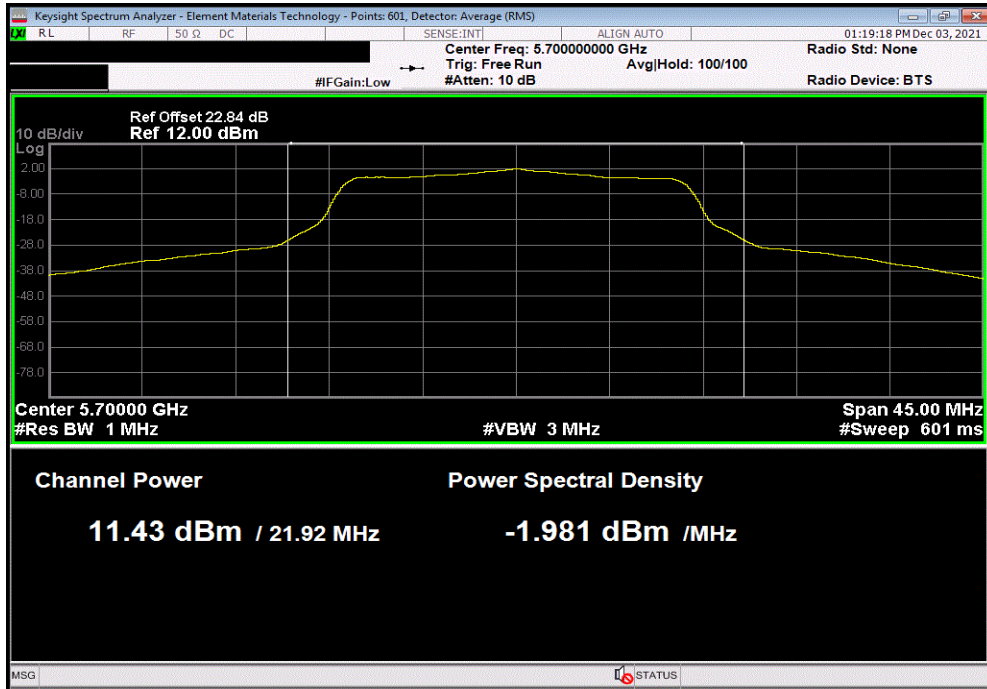


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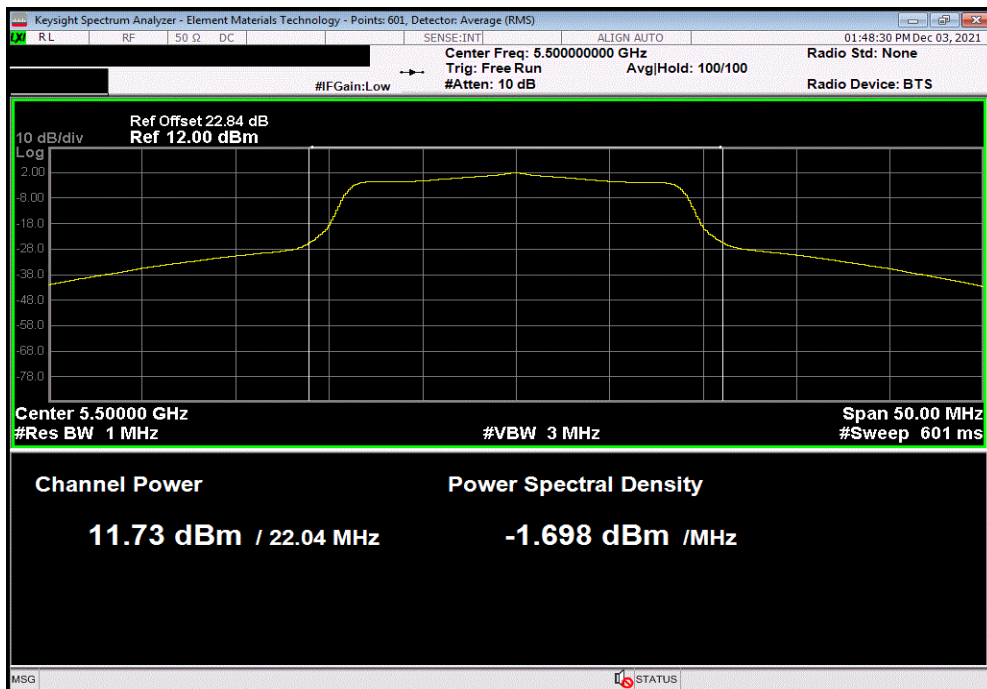


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20 MHz, 802.11(a) 54 Mbps, Ch 140, High Channel 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.427	0.3	11.7	5.2	16.9	30	Pass



20 MHz, 802.11(n) MCS0, Ch 100, Low Channel 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.733	0	11.7	5.2	16.9	30	Pass

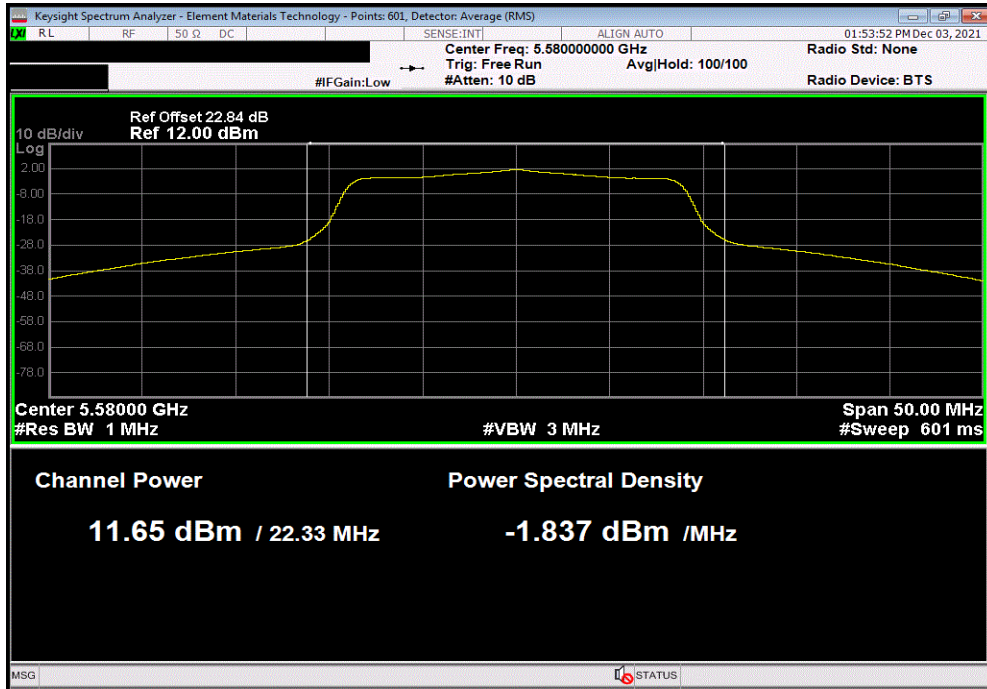


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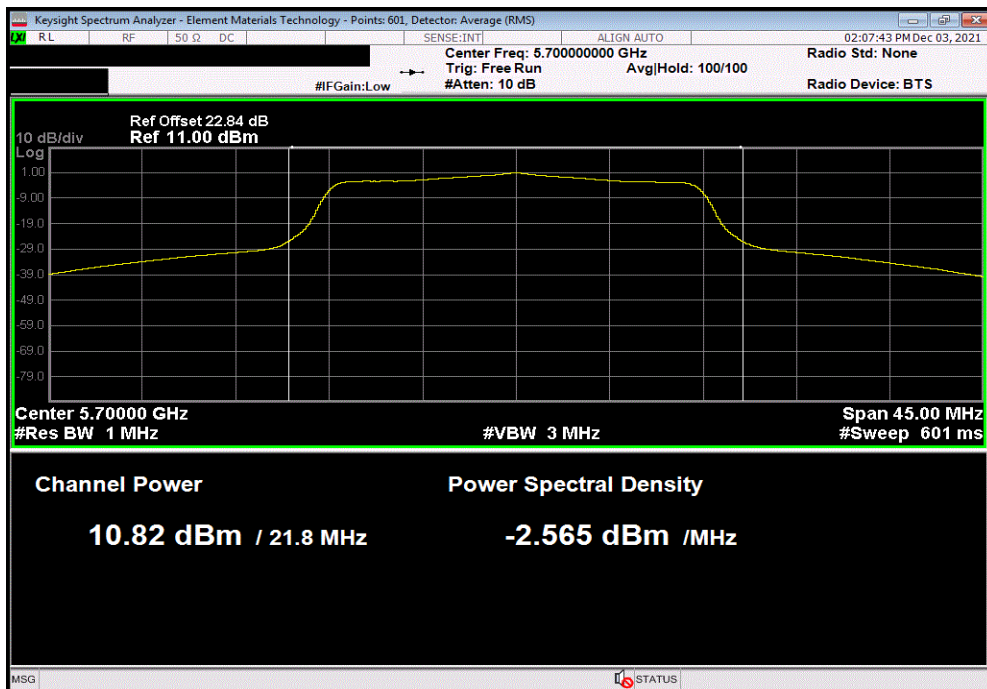


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20 MHz, 802.11(n) MCS0, Ch 116, Mid Channel 5580 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.651	0	11.7	5.2	16.9	30	Pass



20 MHz, 802.11(n) MCS0, Ch 140, High Channel 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.819	0	10.8	5.2	16	30	Pass

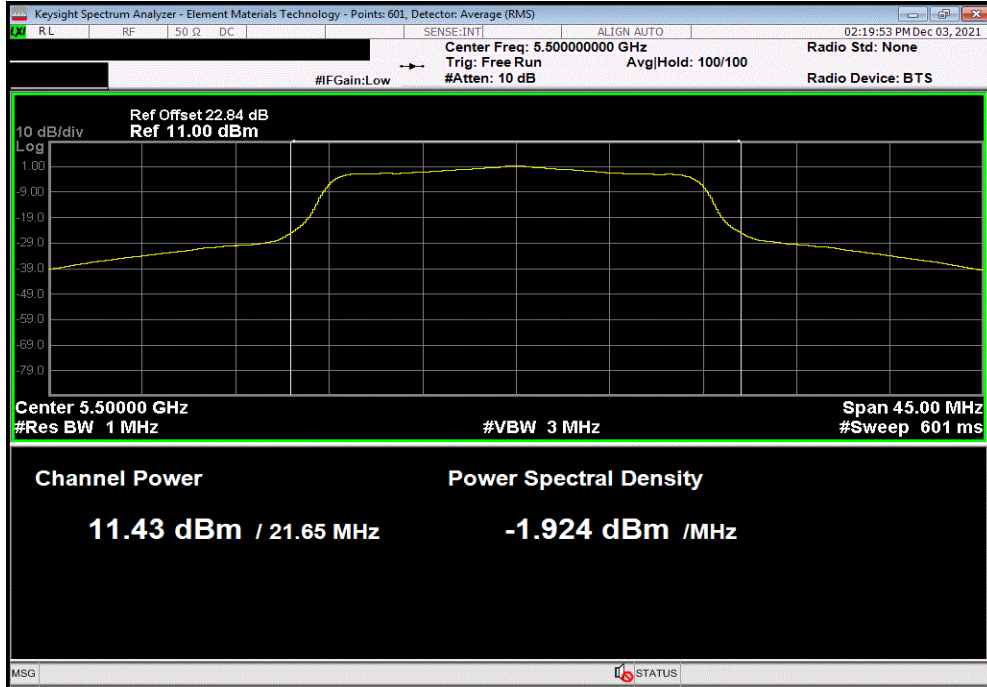


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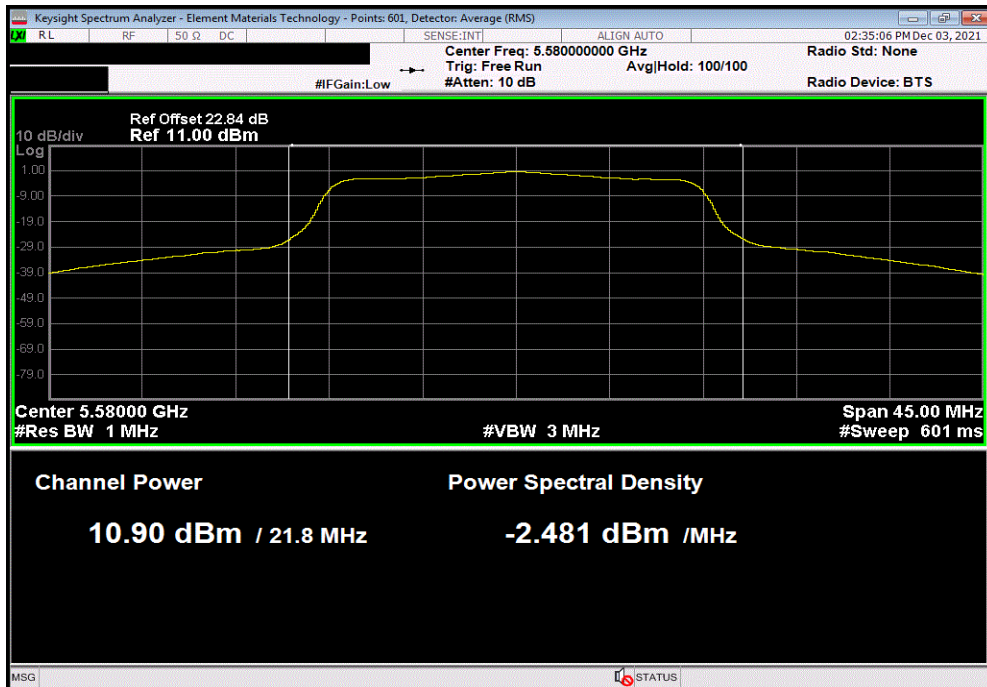


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20 MHz, 802.11(n) MCS7, Ch 100, Low Channel 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.43	0.4	11.8	5.2	17	30	Pass



20 MHz, 802.11(n) MCS7, Ch 116, Mid Channel 5580 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.903	0.4	11.3	5.2	16.5	30	Pass

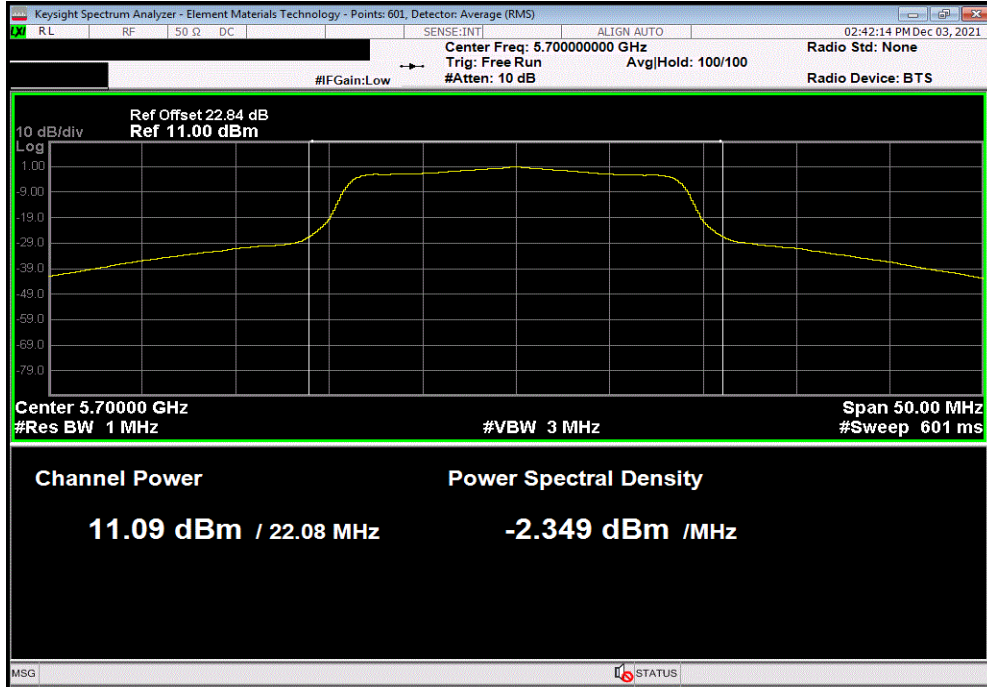


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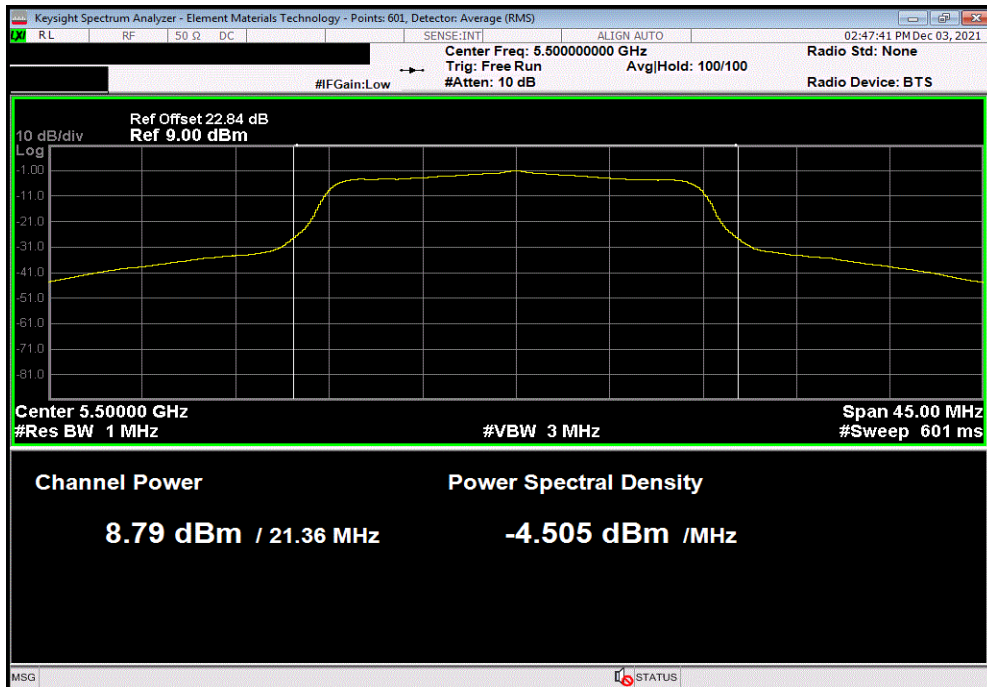


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20 MHz, 802.11(n) MCS7, Ch 140, High Channel 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.09	0.4	11.5	5.2	16.7	30	Pass



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 100, Low Channel 5500 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.79	0.4	9.2	5.2	14.4	30	Pass

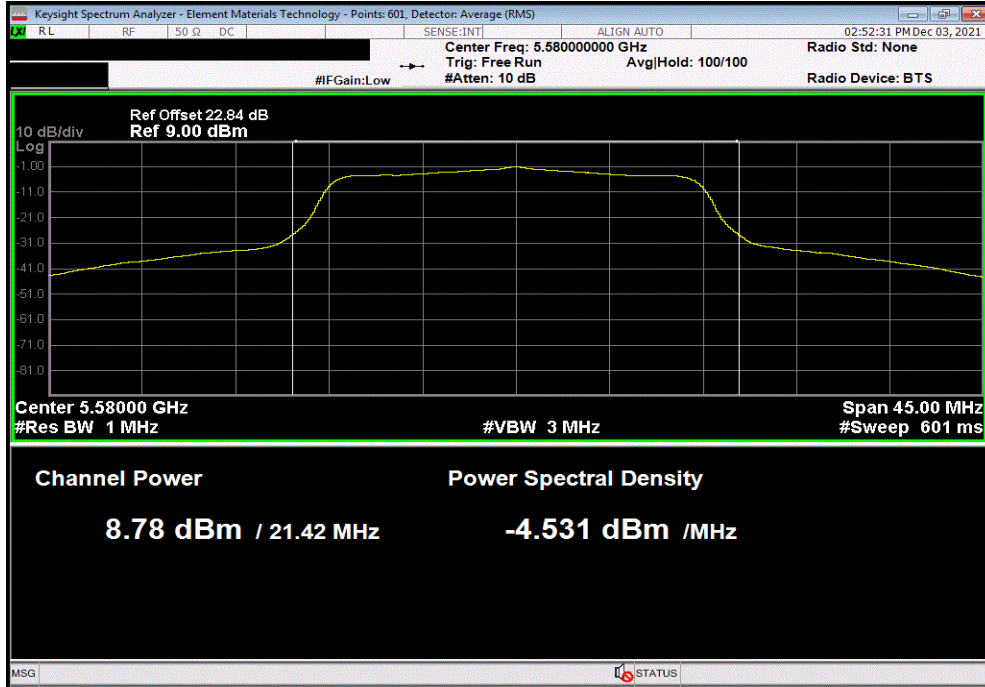


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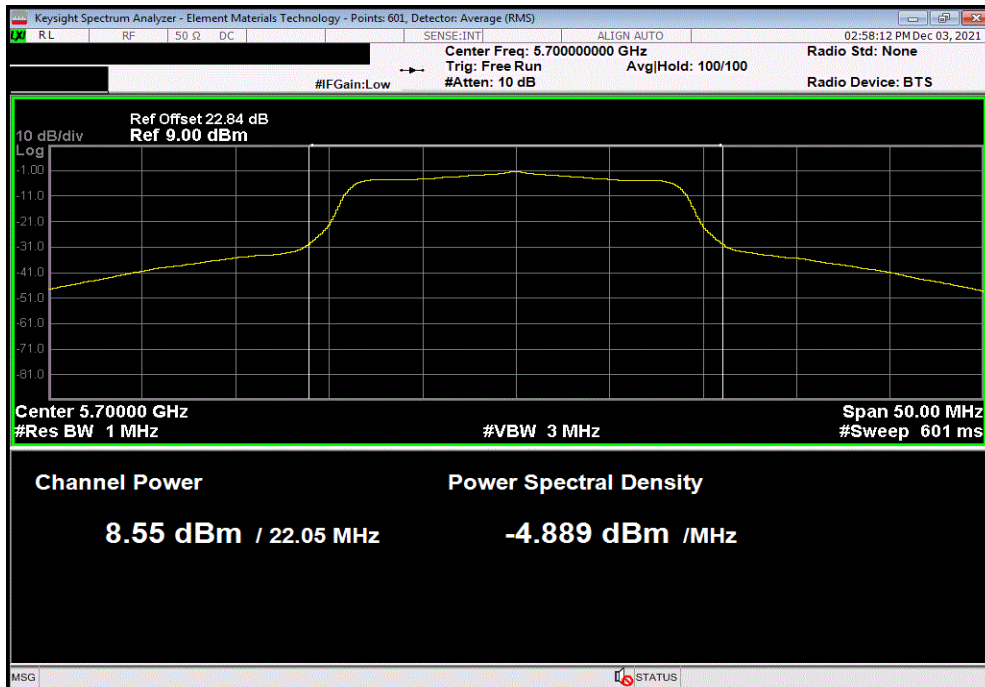


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20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 116, Mid Channel 5580 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.777	0.4	9.2	5.2	14.4	30	Pass



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 140, High Channel 5700 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.545	0.4	8.9	5.2	14.1	30	Pass

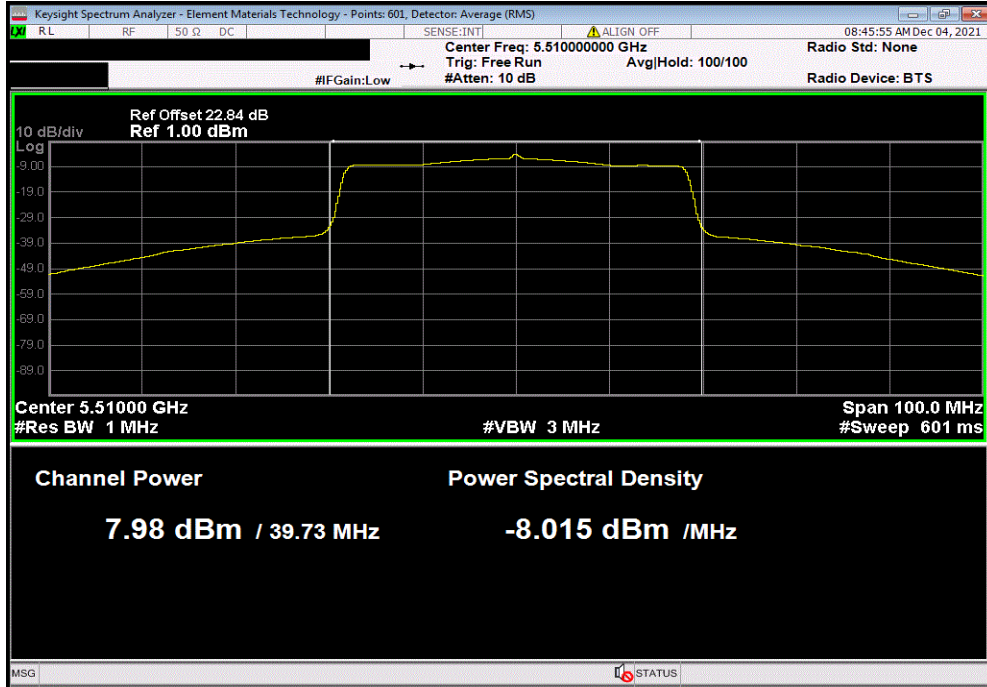


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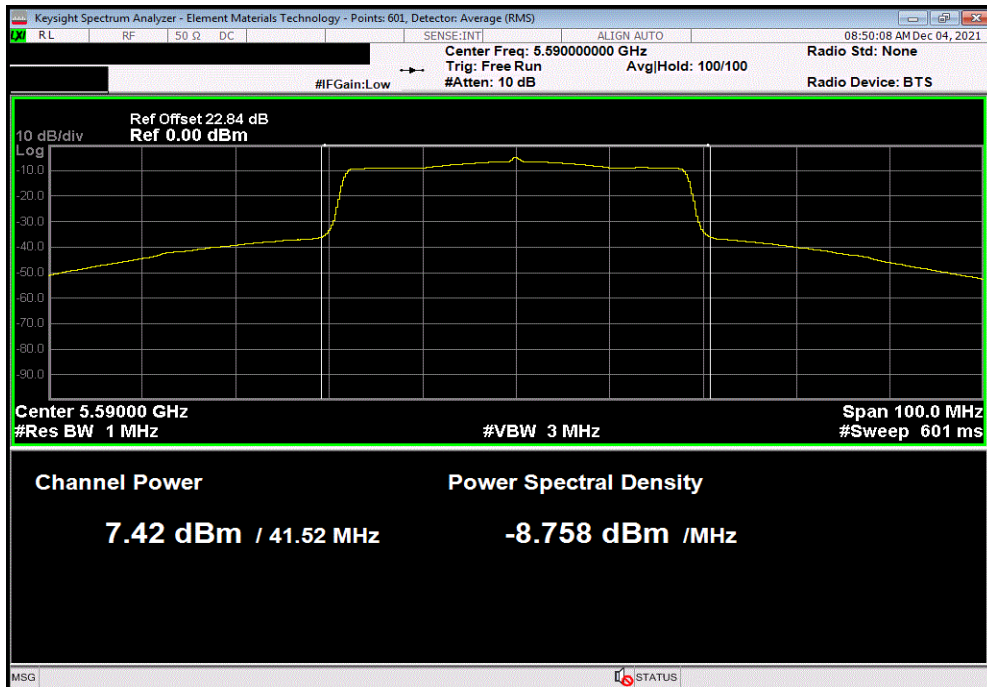


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40 MHz, 802.11(n) MCS0, Ch 100/104, Low Channel 5510 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.976	0.1	8.1	5.2	13.3	30	Pass



40 MHz, 802.11(n) MCS0, Ch 116/120, Mid Channel 5590 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.424	0.1	7.5	5.2	12.7	30	Pass

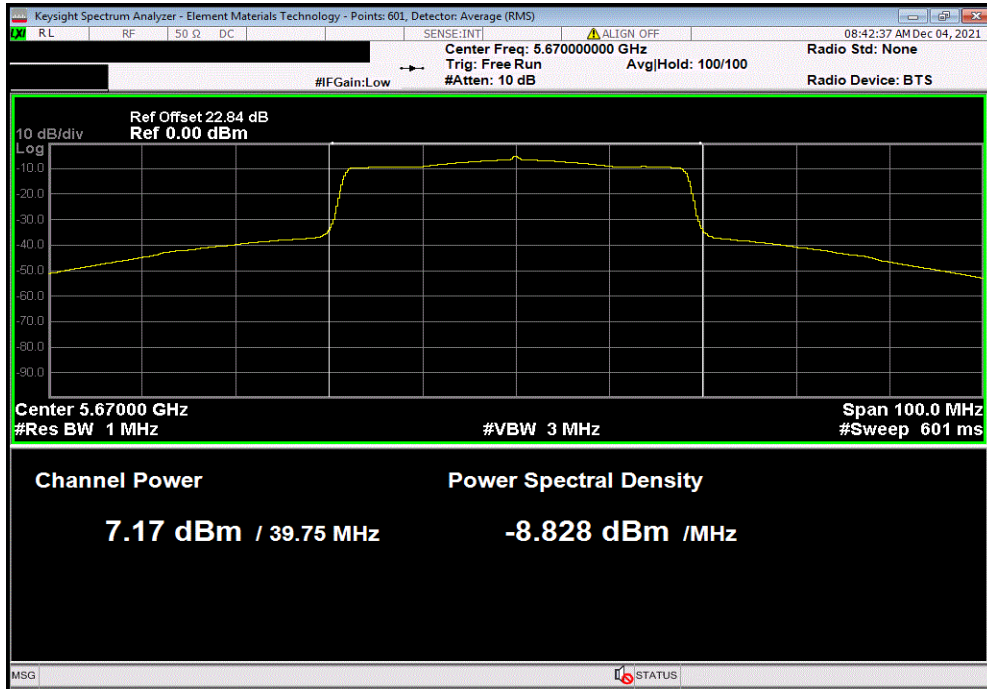


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

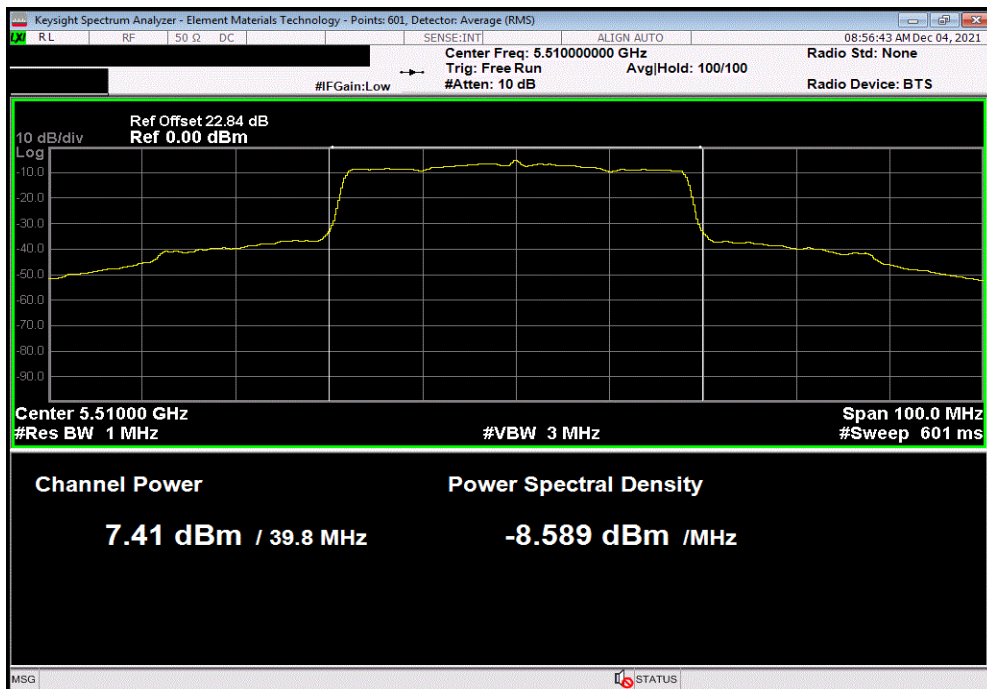


Tel: 2021.10.29.2 XMI: 2020.12.30.0

40 MHz, 802.11(n) MCS0, Ch 132/136, High Channel 5670 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.165	0.1	7.2	5.2	12.4	30	Pass



40 MHz, 802.11(n) MCS7, Ch 100/104, Low Channel 5510 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.41	0.6	8	5.2	13.2	30	Pass

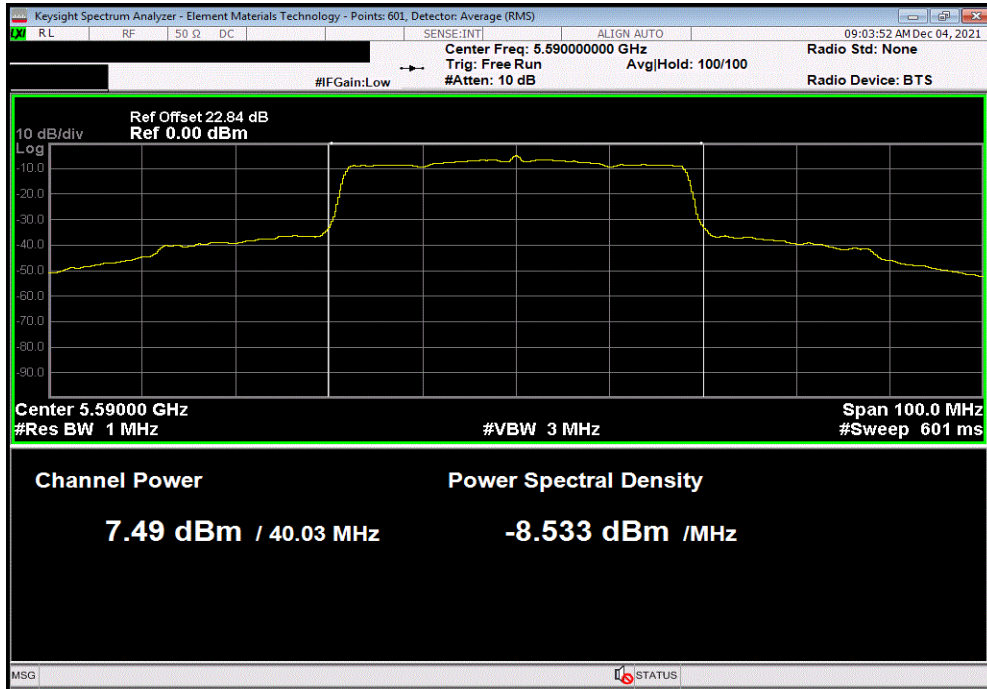


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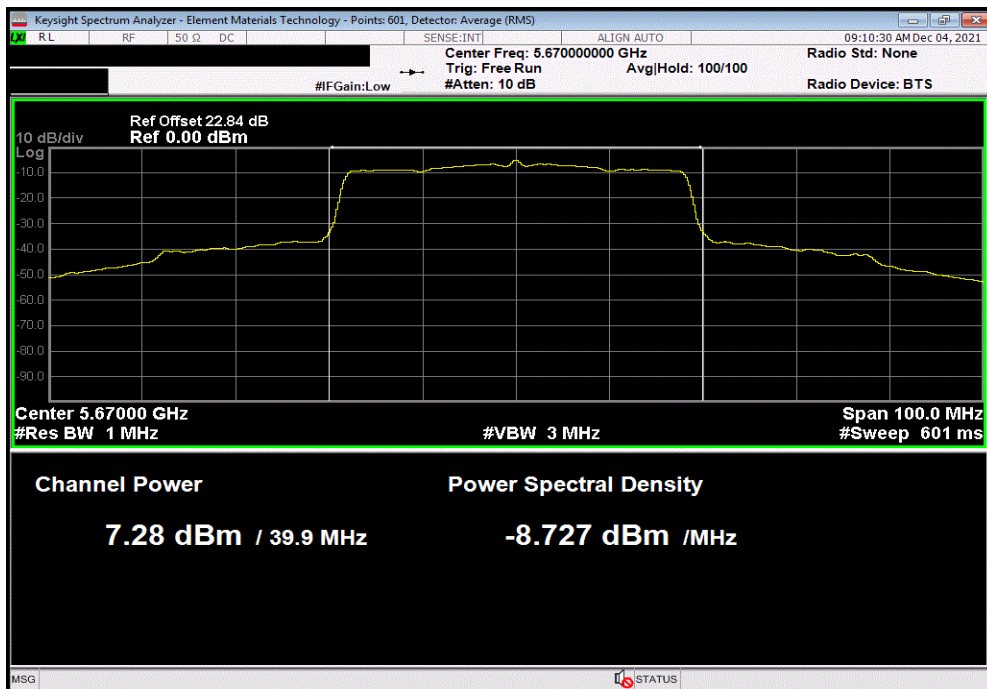


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40 MHz, 802.11(n) MCS7, Ch 116/120, Mid Channel 5590 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.491	0.6	8.1	5.2	13.3	30	Pass



40 MHz, 802.11(n) MCS7, Ch 132/136, High Channel 5670 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.283	0.6	7.8	5.2	13	30	Pass

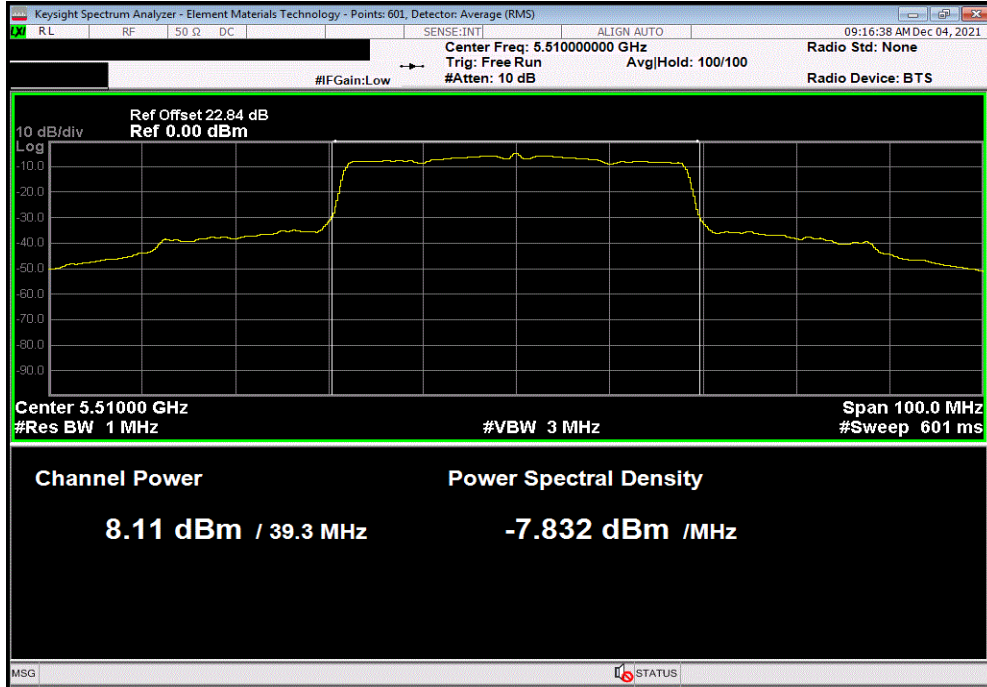


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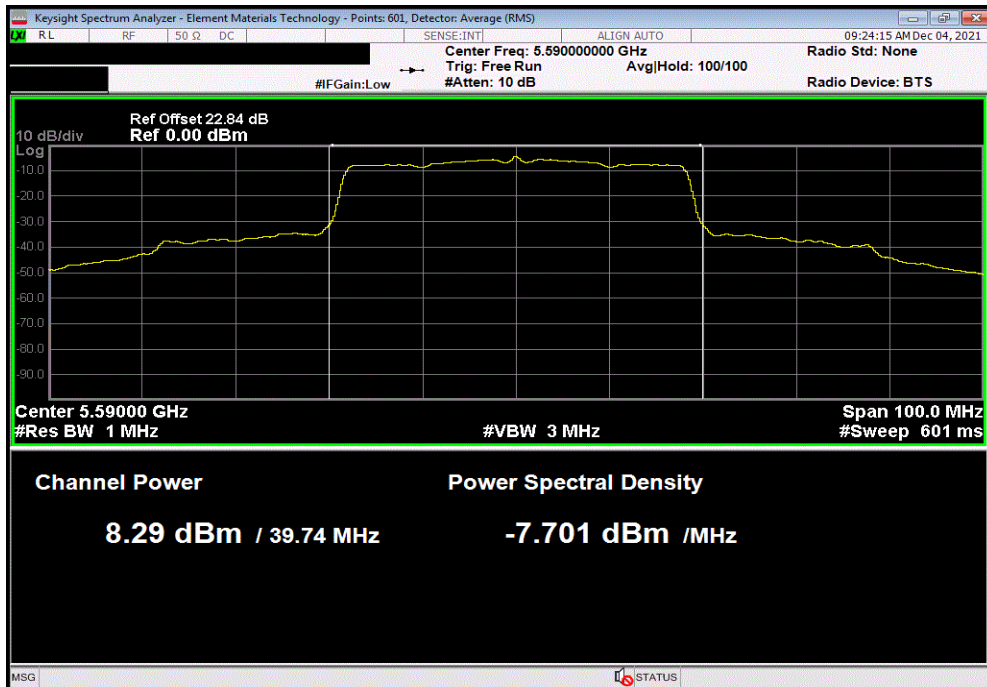


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40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 100/104, Low Channel 5510 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.112	0.7	8.8	5.2	14	30	Pass



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 116/120, Mid Channel 5590 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.291	0.7	9	5.2	14.2	30	Pass

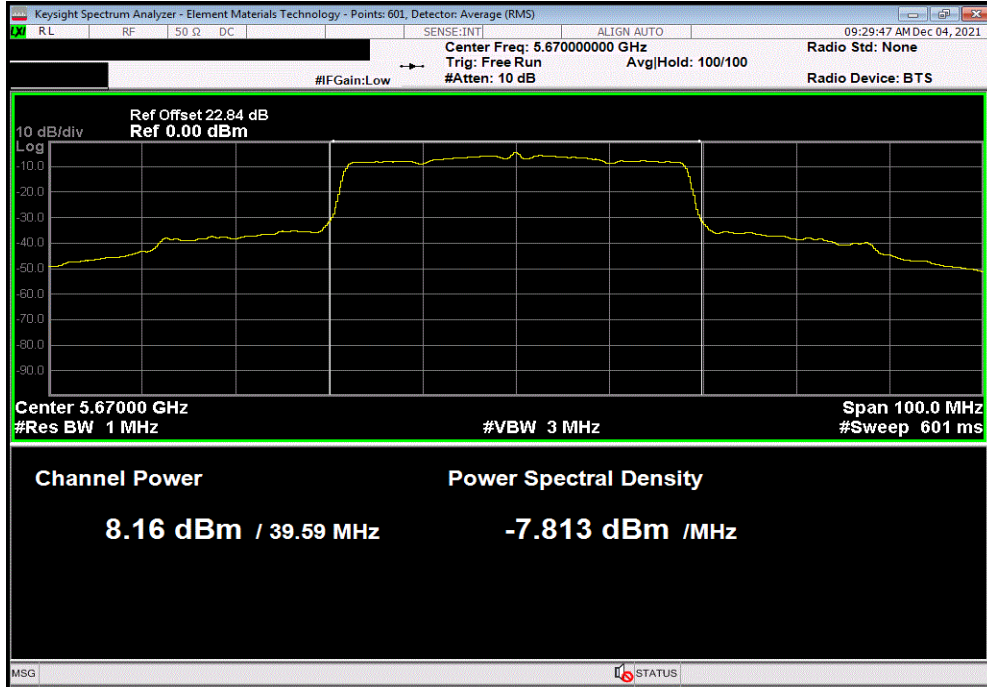


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

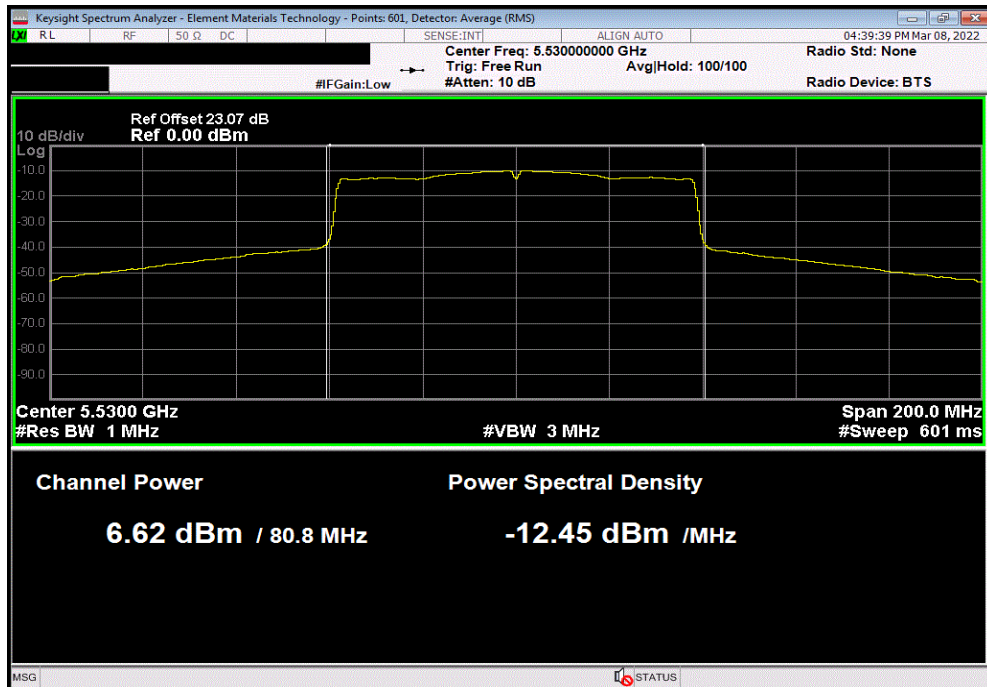


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40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 132/136, High Channel 5670 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.162	0.7	8.8	5.2	14	30	Pass



80 MHz, 802.11(ac) MCS0, Ch 100-112, Low Channel 5530 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.62	0.2	6.8	5.2	12.0	30	Pass

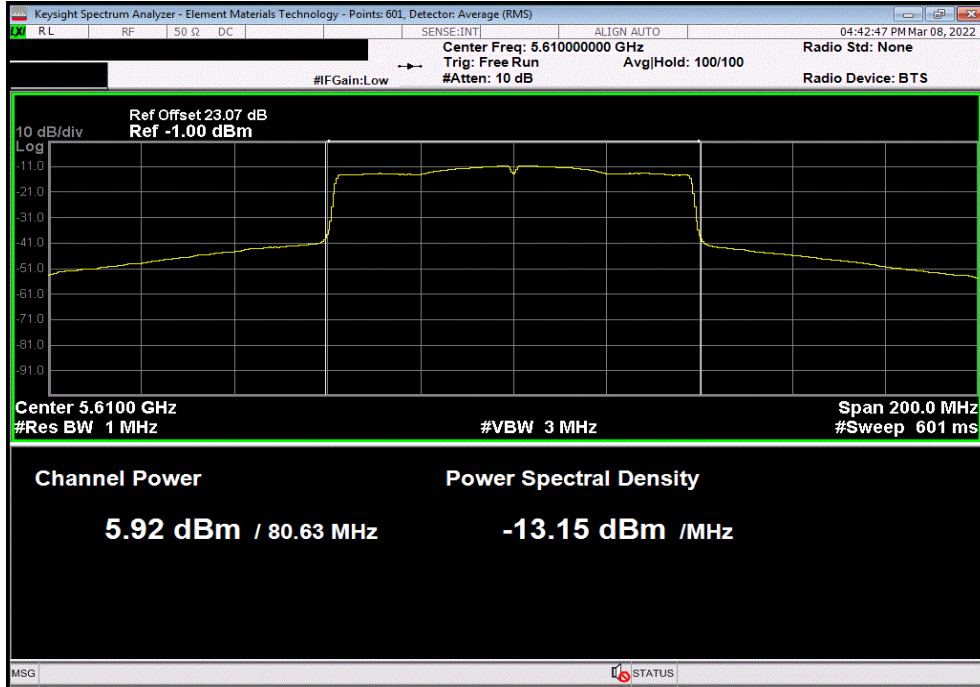


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND

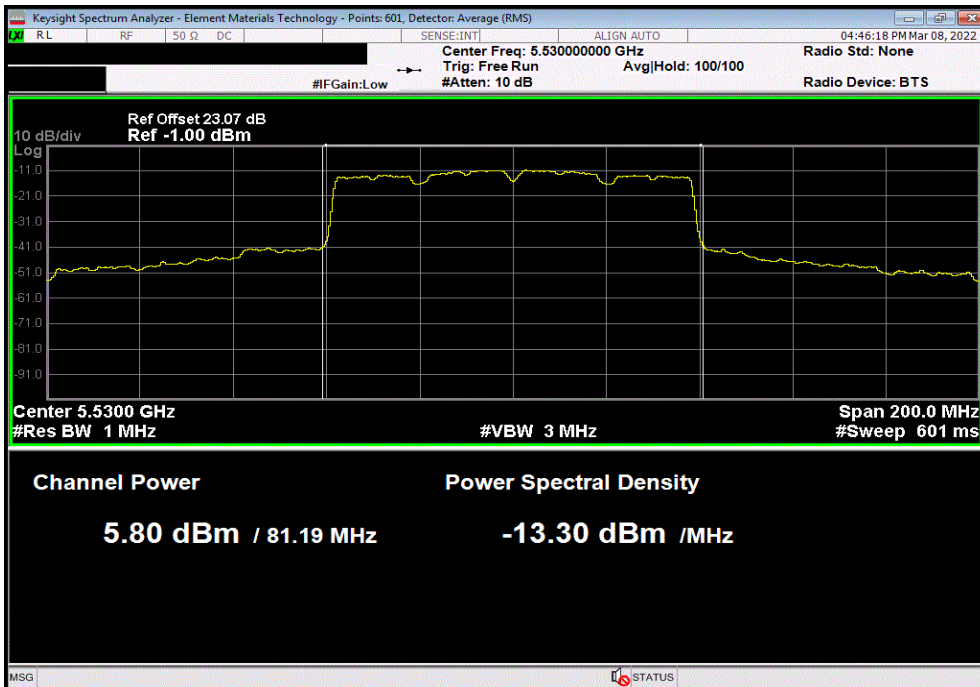


TuTx 2021.10.29.2 XMt 2020.12.30.0

80 MHz, 802.11(ac) MCS0, Ch 116-128, High Channel 5610 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.92	0.2	6.1	5.2	11.3	30	Pass



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 100-112, Low Channel 5530 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.8	1	6.8	5.2	12	30	Pass

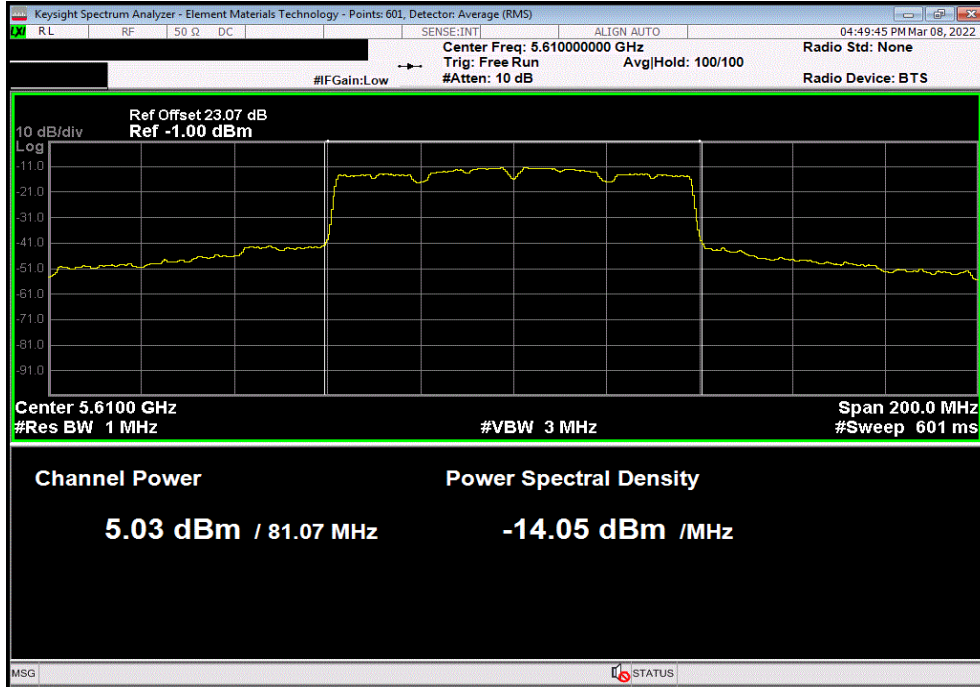


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.6 GHz BAND



TbTx 2021.10.29.2 XMI 2020.12.30.0

80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 116-128, High Channel 5610 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.03	1	6.0	5.2	12	30	Pass



EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND



XM# 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 $10 \cdot \text{LOG}(1/D)$ 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



Tel: 2021.10.29.2 XM: 2022.02.07.0

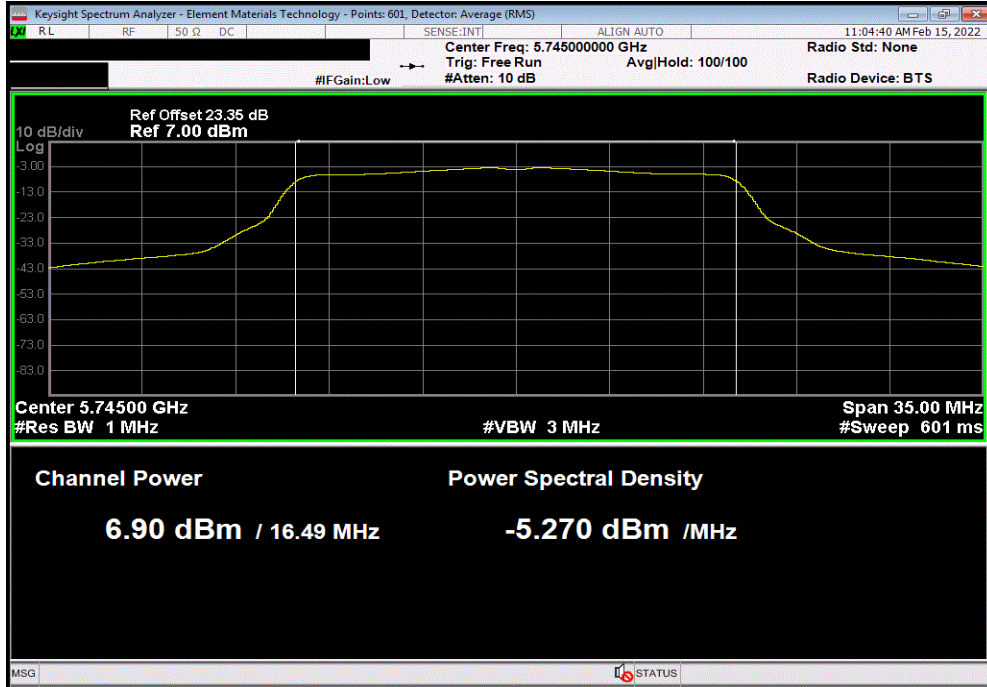
EUT: A-dec Gateway		Work Order: A-DE0169	
Serial Number: 521A000118		Date: 17-Feb-22	
Customer: A-dec, Inc.		Temperature: 20.1 °C	
Attendees: None		Humidity: 41.7% RH	
Project: None		Barometric Pres.: 1033 mbar	
Tested by: Jeff Alcoke		Power: 24 VDC via 110VAC/60Hz	
Job Site: EV06			
TEST SPECIFICATIONS			
FCC 15.407:2022		ANSI C63.10:2013	
TEST METHOD			
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
20 MHz			
802.11(a) 6 Mbps			
	Ch 149, Low Channel 5745 MHz	6.902	0
	Ch 157, Mid Channel 5785 MHz	6.314	0
	Ch 165, High Channel 5825 MHz	7.284	0
802.11(a) 36 Mbps			
	Ch 149, Low Channel 5745 MHz	7.303	0.2
	Ch 157, Mid Channel 5785 MHz	6.957	0.2
	Ch 165, High Channel 5825 MHz	7.056	0.2
802.11(a) 54 Mbps			
	Ch 149, Low Channel 5745 MHz	7.196	0.3
	Ch 157, Mid Channel 5785 MHz	6.877	0.3
	Ch 165, High Channel 5825 MHz	6.103	0.3
802.11(n) MCS0			
	Ch 149, Low Channel 5745 MHz	7.27	0
	Ch 157, Mid Channel 5785 MHz	6.924	0
	Ch 165, High Channel 5825 MHz	6.924	0
802.11(n) MCS7			
	Ch 149, Low Channel 5745 MHz	7.017	0.4
	Ch 157, Mid Channel 5785 MHz	6.657	0.4
	Ch 165, High Channel 5825 MHz	6.714	0.4
802.11(ac) MCS8 (256-QAM)			
	Ch 149, Low Channel 5745 MHz	6.975	0.4
	Ch 157, Mid Channel 5785 MHz	6.639	0.4
	Ch 165, High Channel 5825 MHz	6.649	0.4
40 MHz			
802.11(n) MCS0			
	Ch 149/153, Low Channel 5755 MHz	7.035	0.1
	Ch 157/161, High Channel 5795 MHz	6.675	0.1
802.11(n) MCS7			
	Ch 149/153, Low Channel 5755 MHz	6.357	0.6
	Ch 157/161, High Channel 5795 MHz	6.208	0.6
802.11(ac) MCS9 (256-QAM)			
	Ch 149/153, Low Channel 5755 MHz	7.423	0.7
	Ch 157/161, High Channel 5795 MHz	6.896	0.7
80 MHz			
802.11(ac) MCS0			
	Ch 149-161, Low Channel 5775 MHz	5.986	0.2
802.11(ac) MCS9 (256-QAM)			
	Ch 149-161, Low Channel 5775 MHz	4.148	1

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

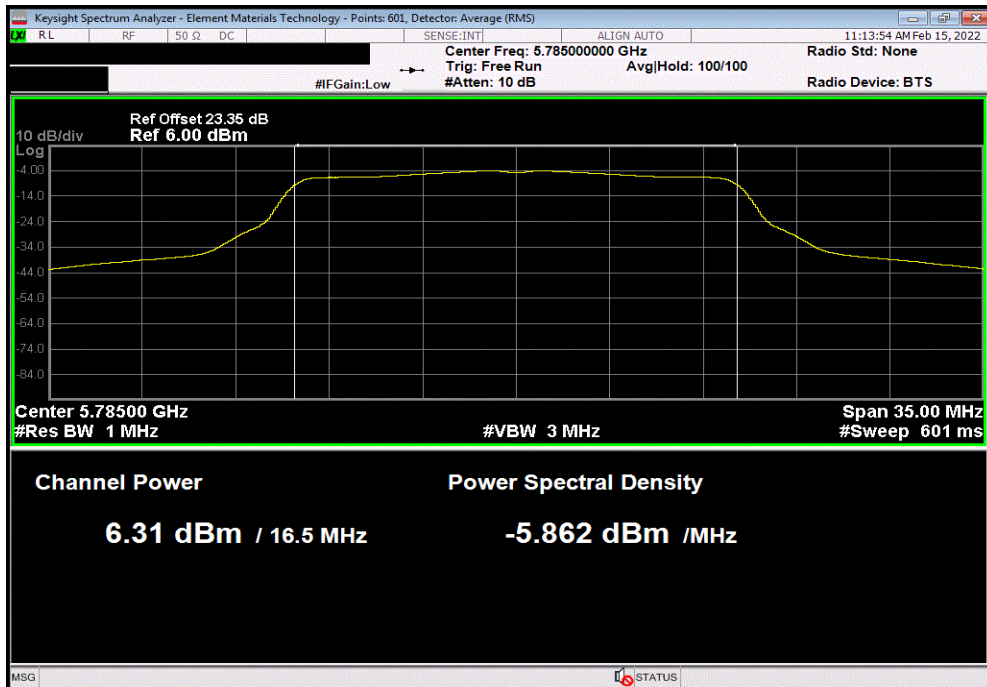


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(a) 6 Mbps, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.902	0	6.9	5.2	12.1	36	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.314	0	6.3	5.2	11.5	36	Pass

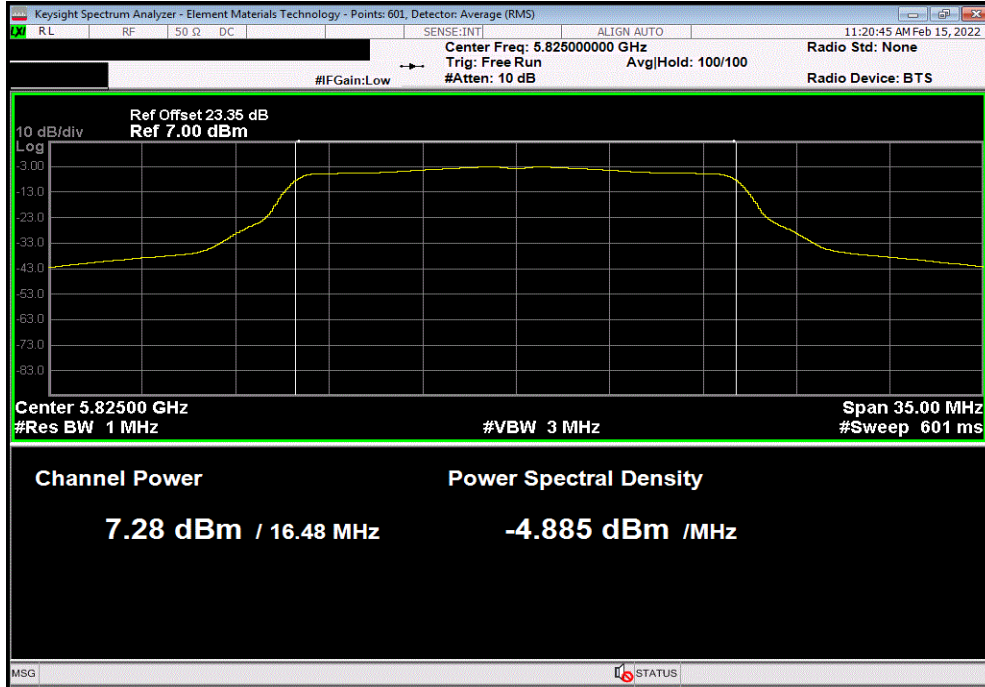


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

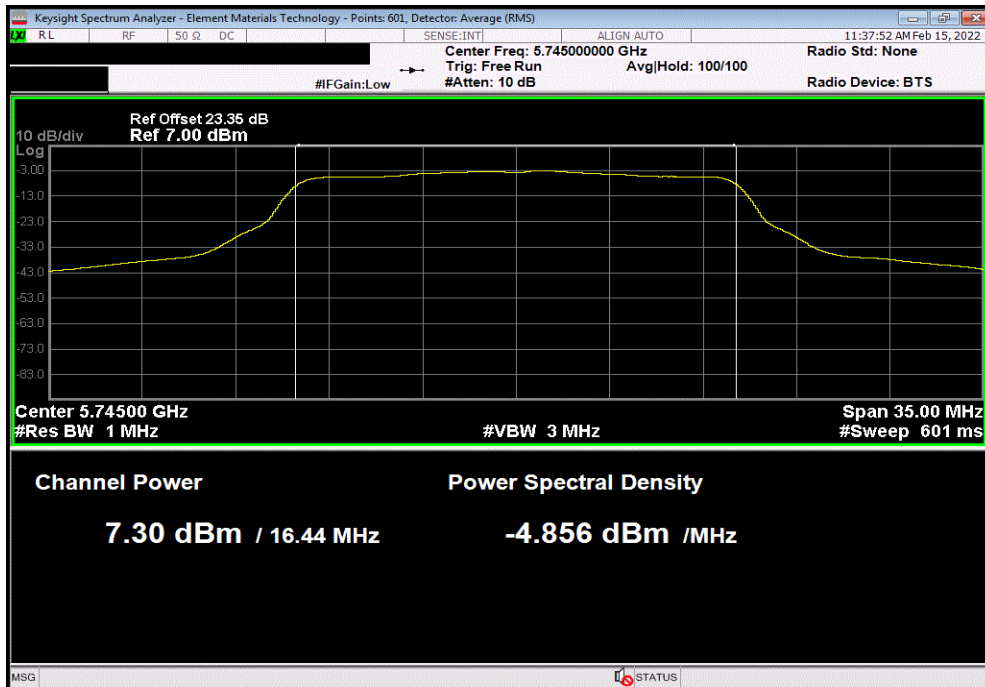


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(a) 6 Mbps, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.284	0	7.3	5.2	12.5	36	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.303	0.2	7.5	5.2	12.7	36	Pass

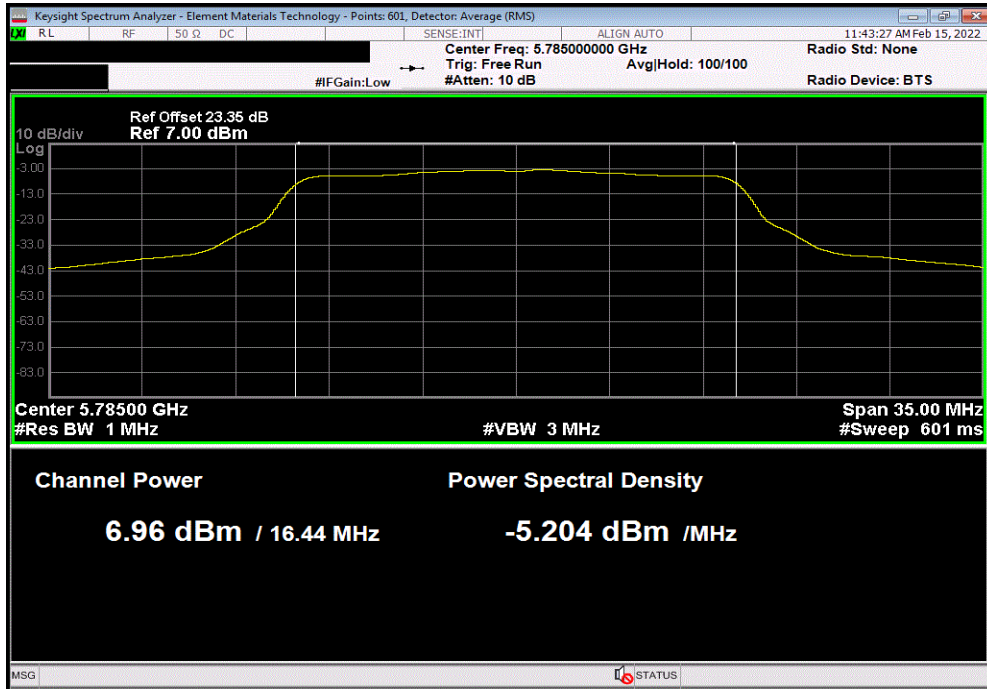


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

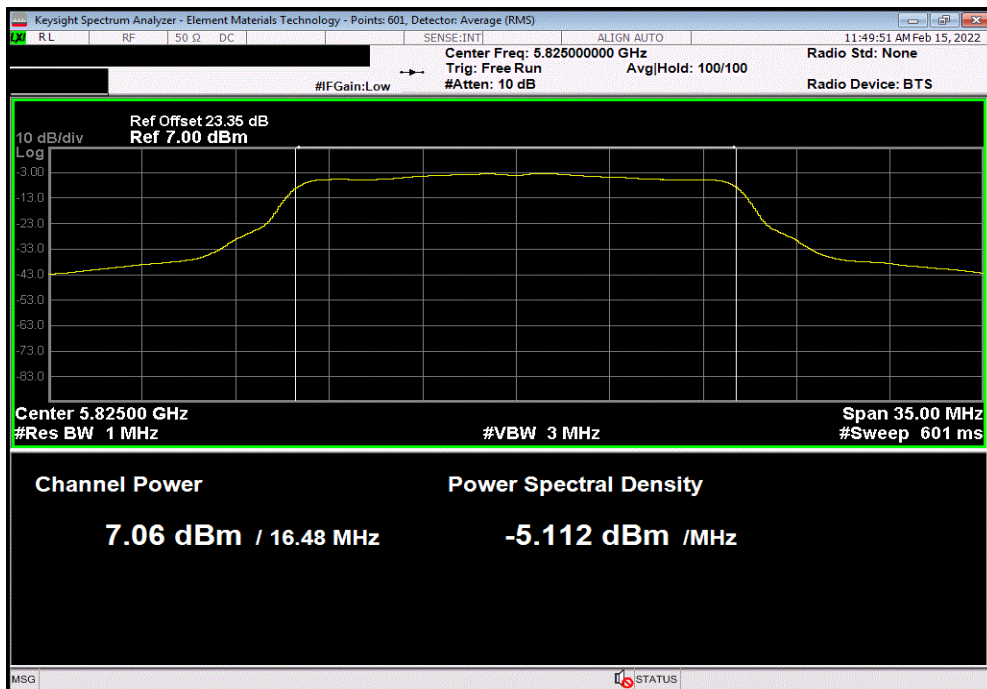


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(a) 36 Mbps, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.957	0.2	7.2	5.2	12.4	36	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.056	0.2	7.3	5.2	12.5	36	Pass

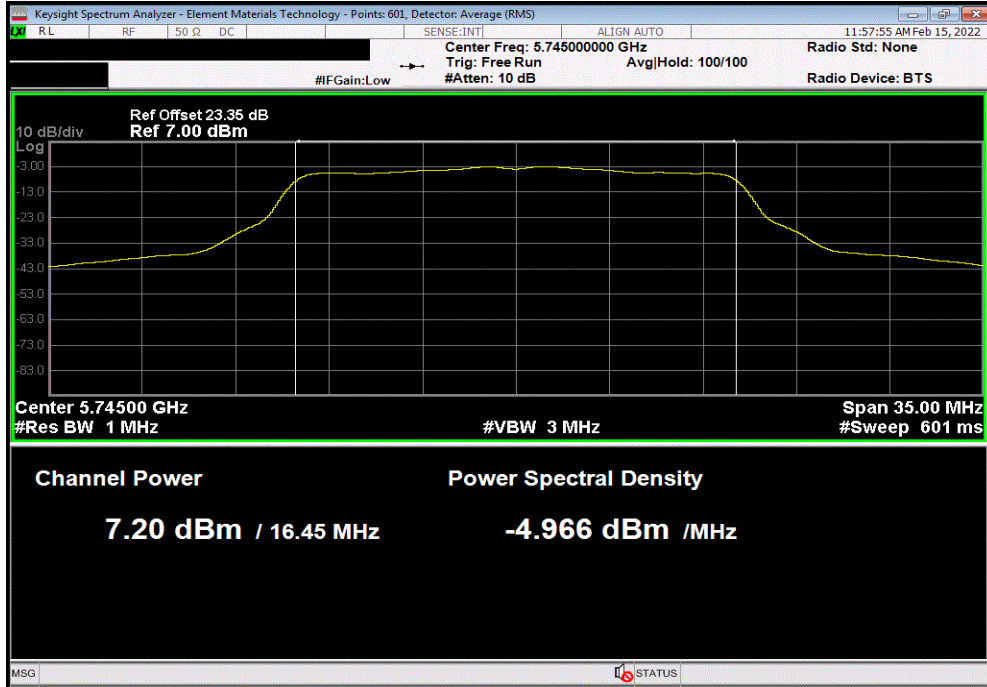


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

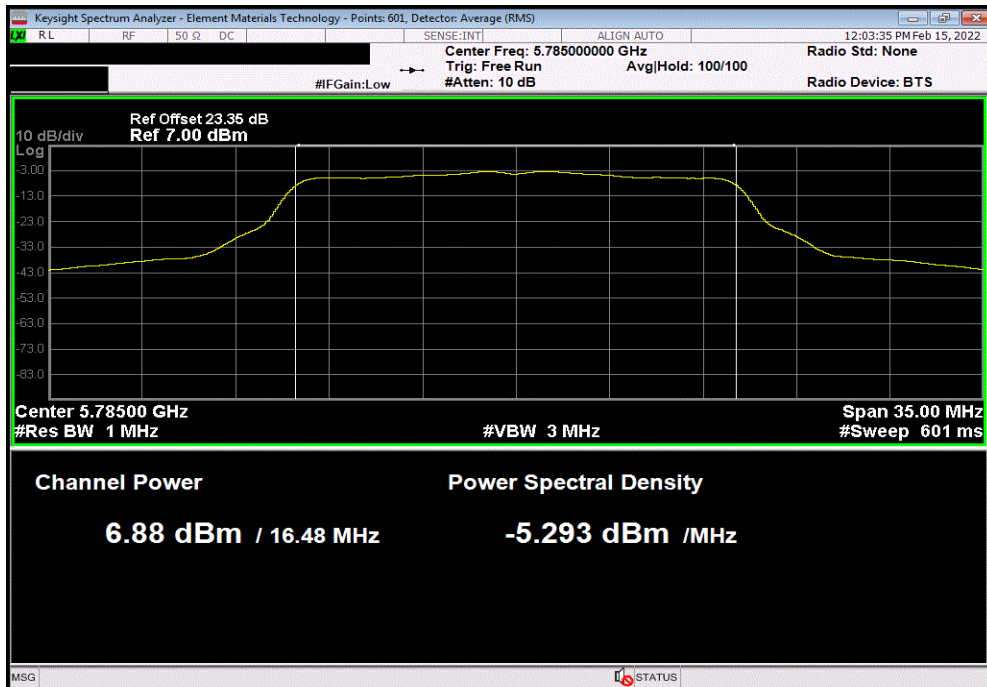


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(a) 54 Mbps, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.196	0.3	7.5	5.2	12.7	36	Pass



20 MHz, 802.11(a) 54 Mbps, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.877	0.3	7.2	5.2	12.4	36	Pass

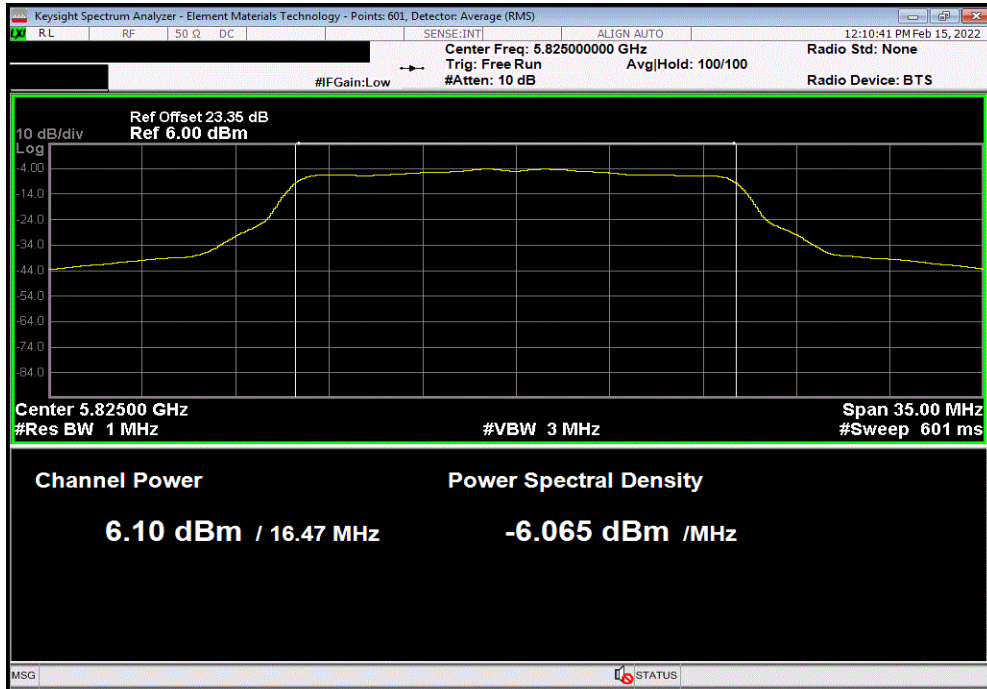


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

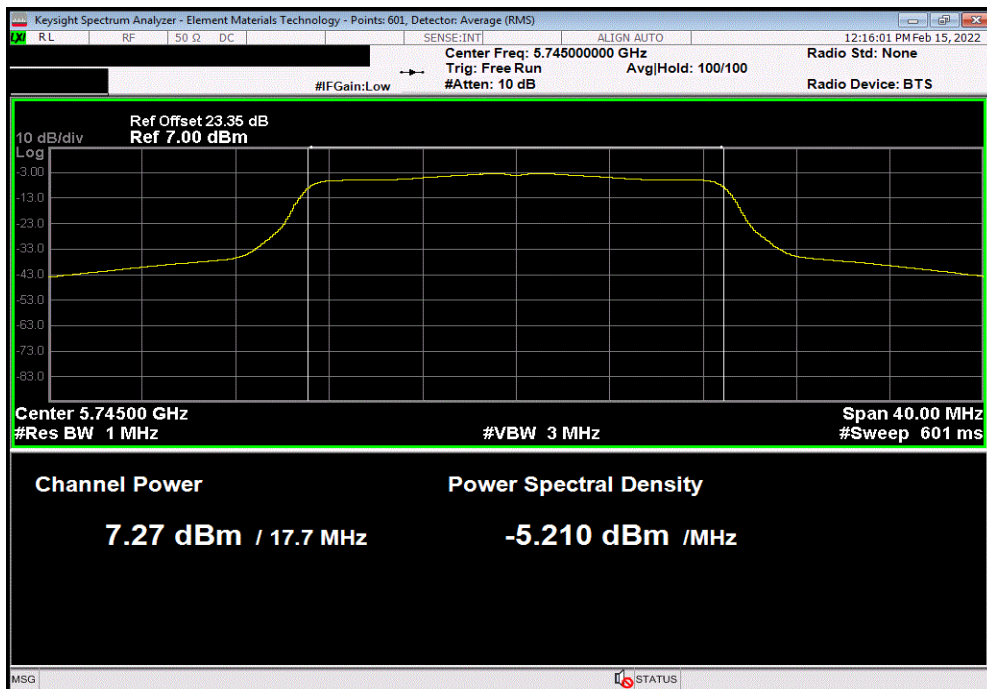


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(a) 54 Mbps, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.103	0.3	6.4	5.2	11.6	36	Pass



20 MHz, 802.11(n) MCS0, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.27	0	7.3	5.2	12.5	36	Pass

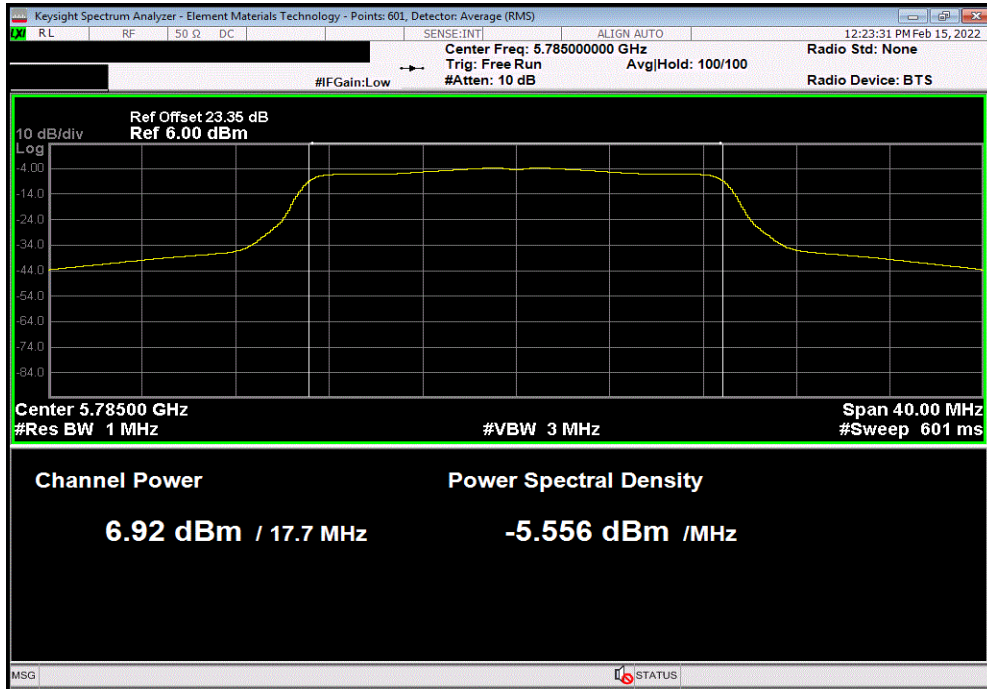


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

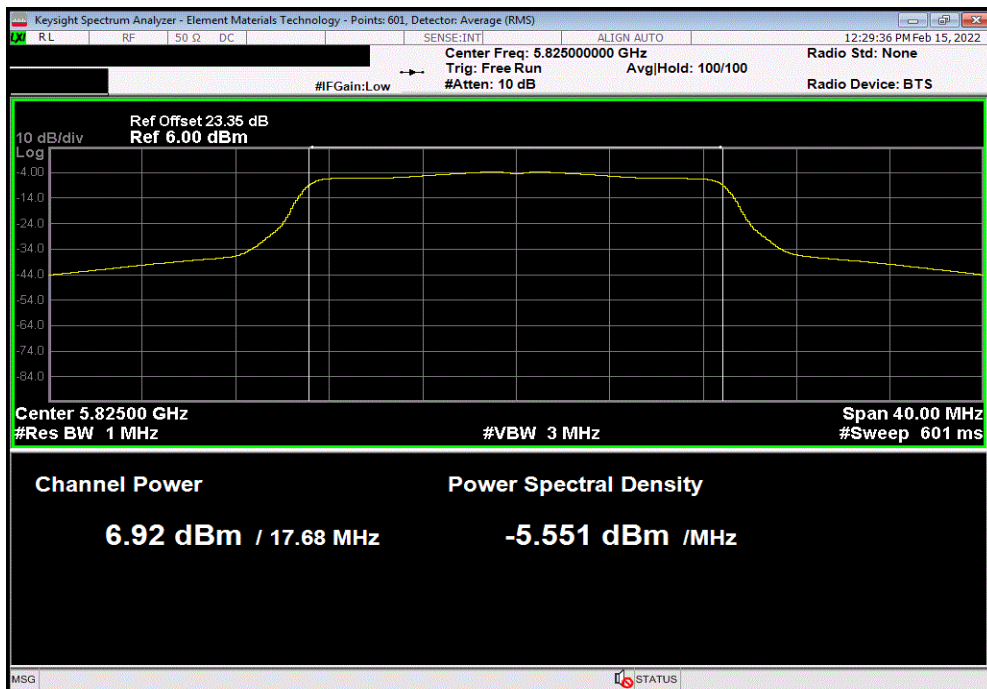


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(n) MCS0, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.924	0	6.9	5.2	12.1	36	Pass



20 MHz, 802.11(n) MCS0, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.924	0	6.9	5.2	12.1	36	Pass

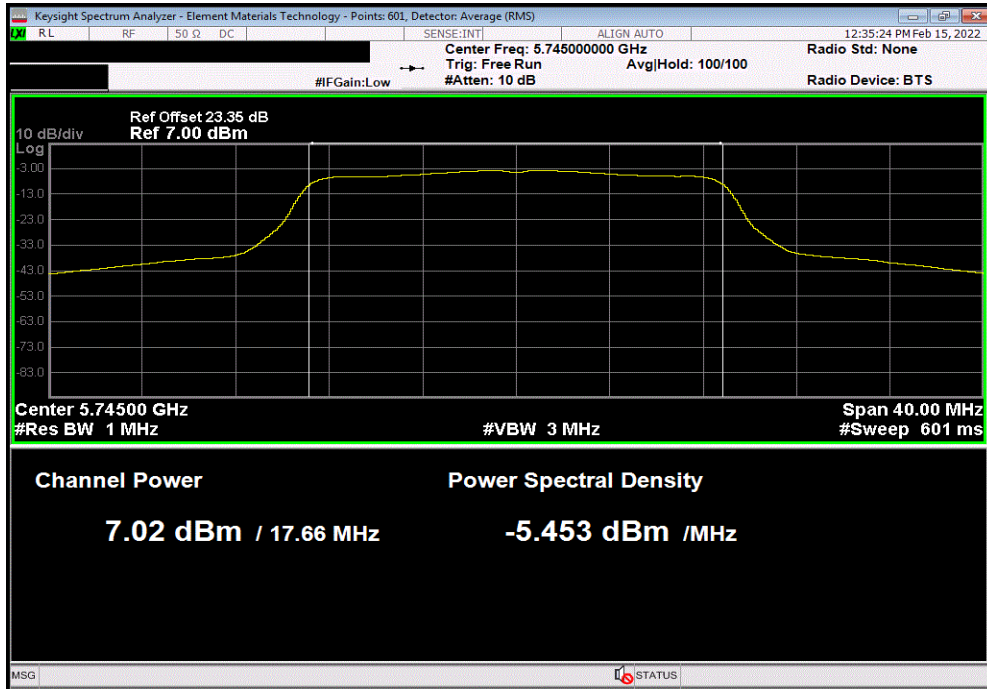


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

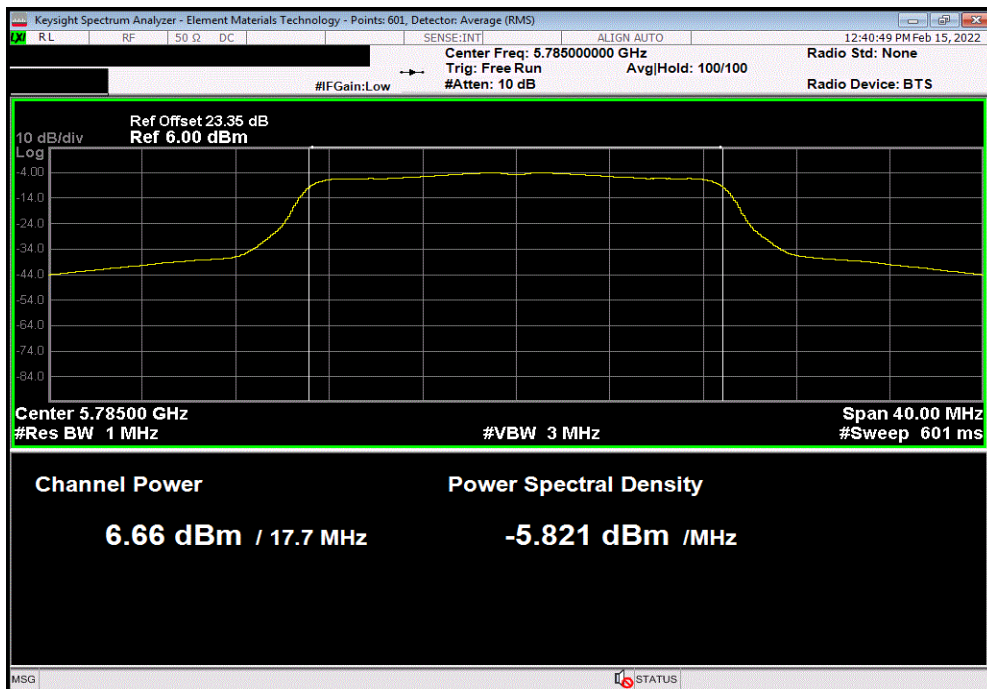


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(n) MCS7, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.017	0.4	7.4	5.2	12.6	36	Pass



20 MHz, 802.11(n) MCS7, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.657	0.4	7.1	5.2	12.3	36	Pass

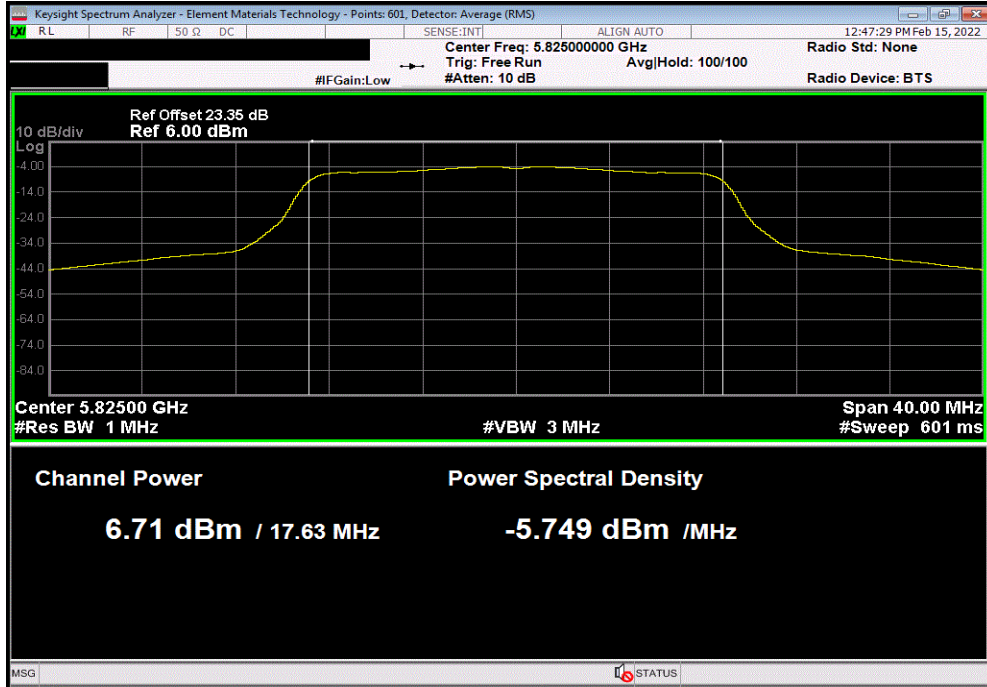


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

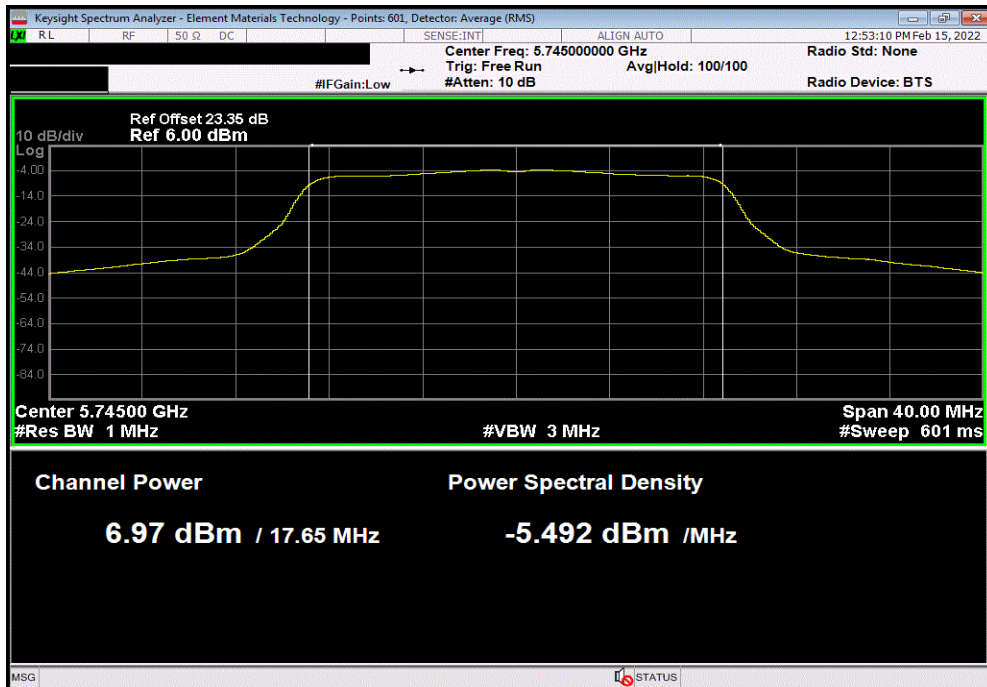


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(n) MCS7, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.714	0.4	7.1	5.2	12.3	36	Pass



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.975	0.4	7.4	5.2	12.6	36	Pass

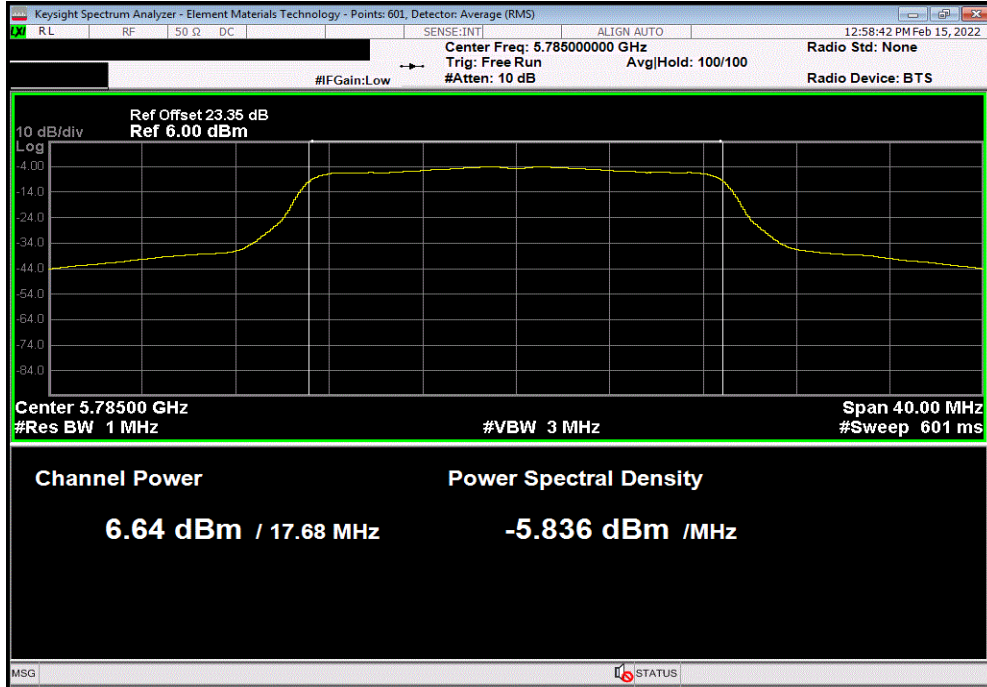


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

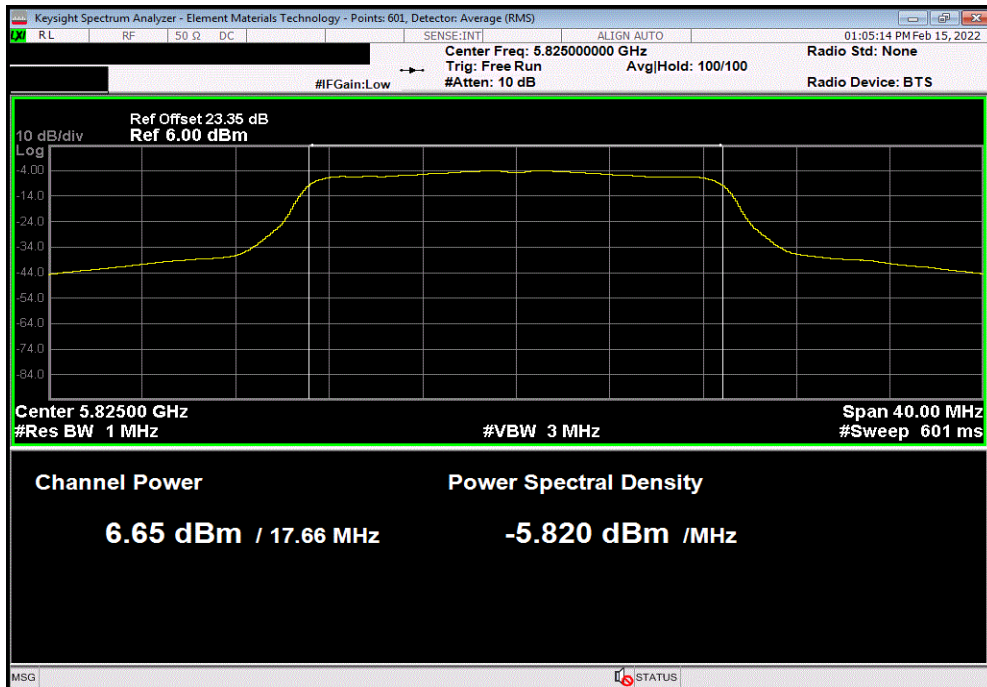


TuTx 2021.10.29.2 XMI 2022.02.07.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.639	0.4	7	5.2	12.2	36	Pass



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.649	0.4	7	5.2	12.2	36	Pass

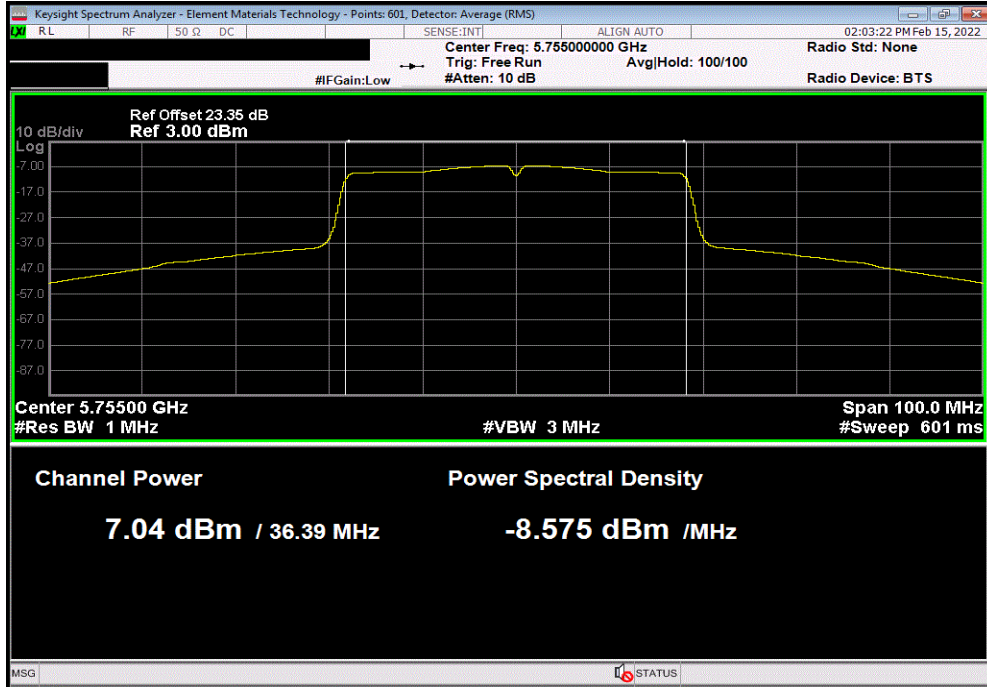


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

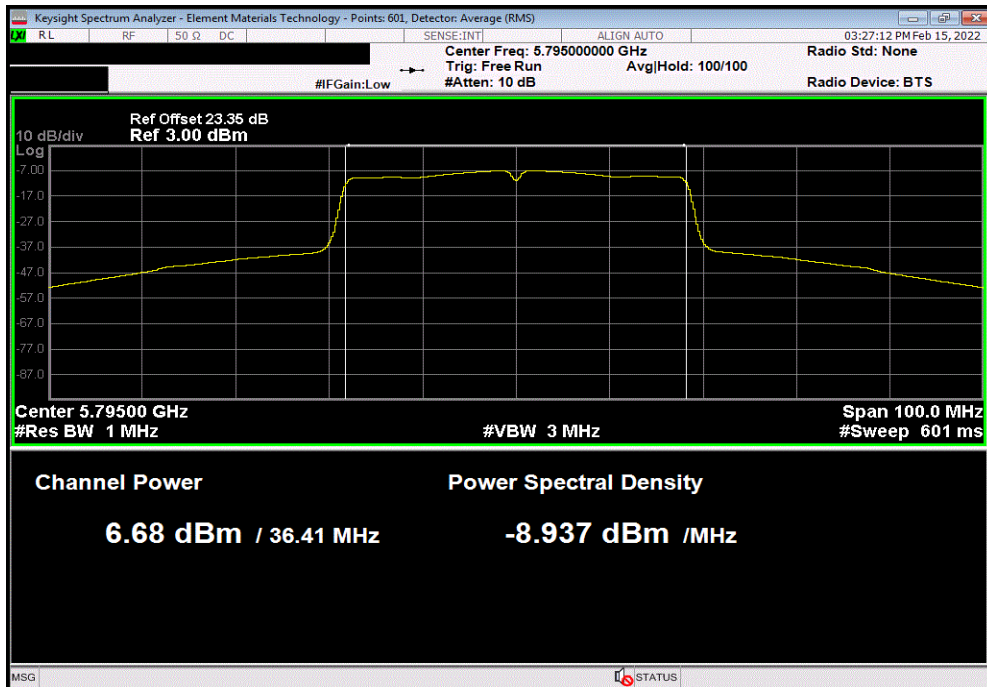


TuTx 2021.10.29.2 XMI 2022.02.07.0

40 MHz, 802.11(n) MCS0, Ch 149/153, Low Channel 5755 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.035	0.1	7.1	5.2	12.3	36	Pass



40 MHz, 802.11(n) MCS0, Ch 157/161, High Channel 5795 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.675	0.1	6.8	5.2	12	36	Pass

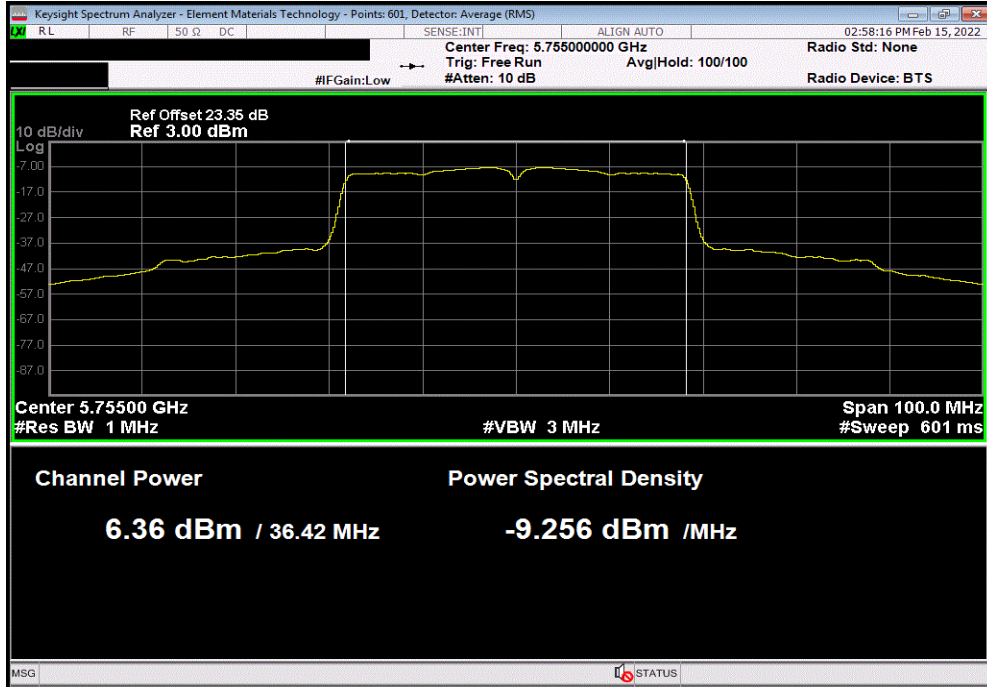


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

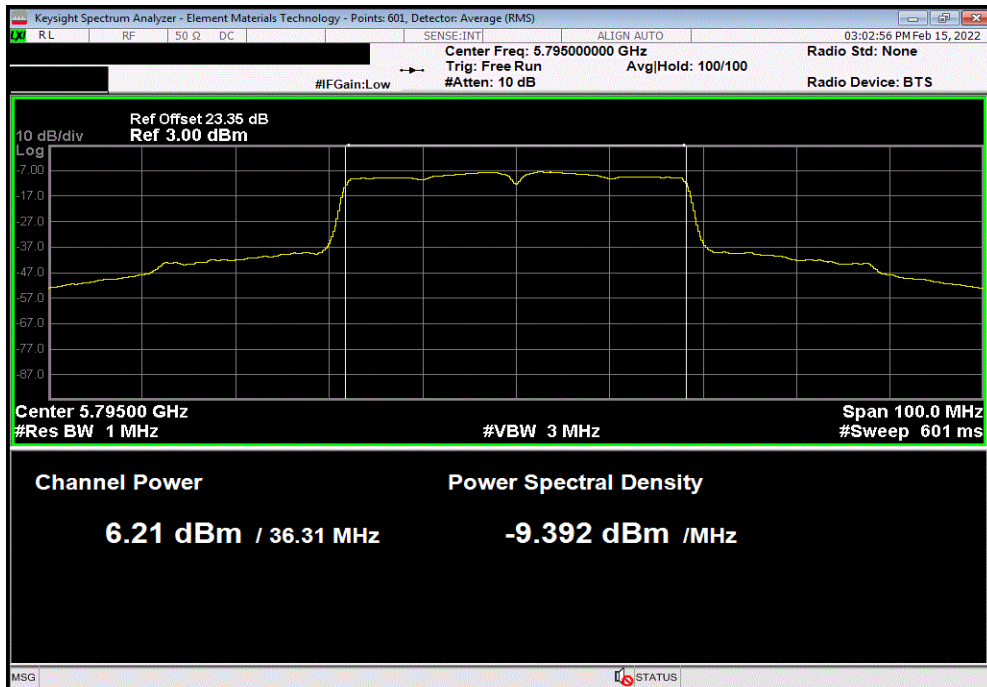


TuTx 2021.10.29.2 XMI 2022.02.07.0

40 MHz, 802.11(n) MCS7, Ch 149/153, Low Channel 5755 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.357	0.6	7	5.2	12.2	36	Pass



40 MHz, 802.11(n) MCS7, Ch 157/161, High Channel 5795 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.208	0.6	6.8	5.2	12	36	Pass

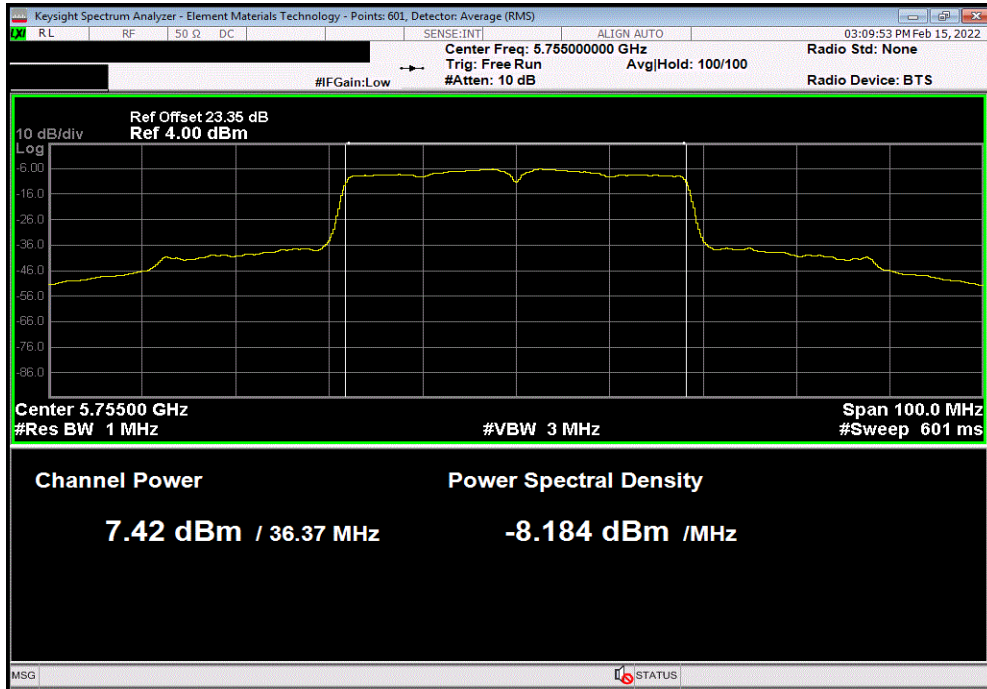


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND

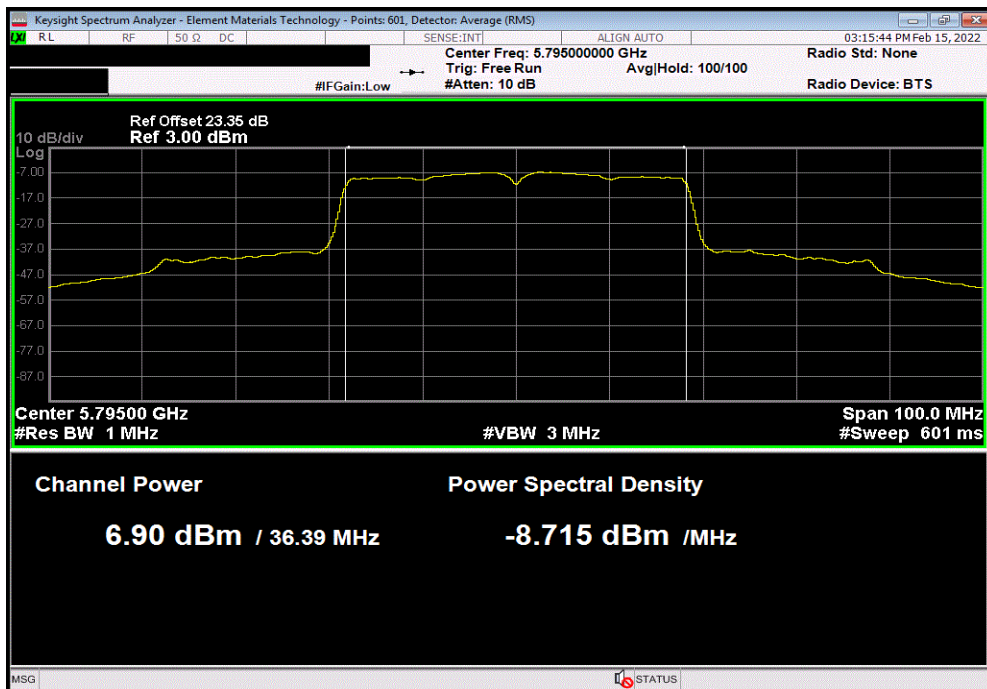


TuTx 2021.10.29.2 XMI 2022.02.07.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 149/153, Low Channel 5755 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.423	0.7	8.1	5.2	13.3	36	Pass



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 157/161, High Channel 5795 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.896	0.7	7.6	5.2	12.8	36	Pass

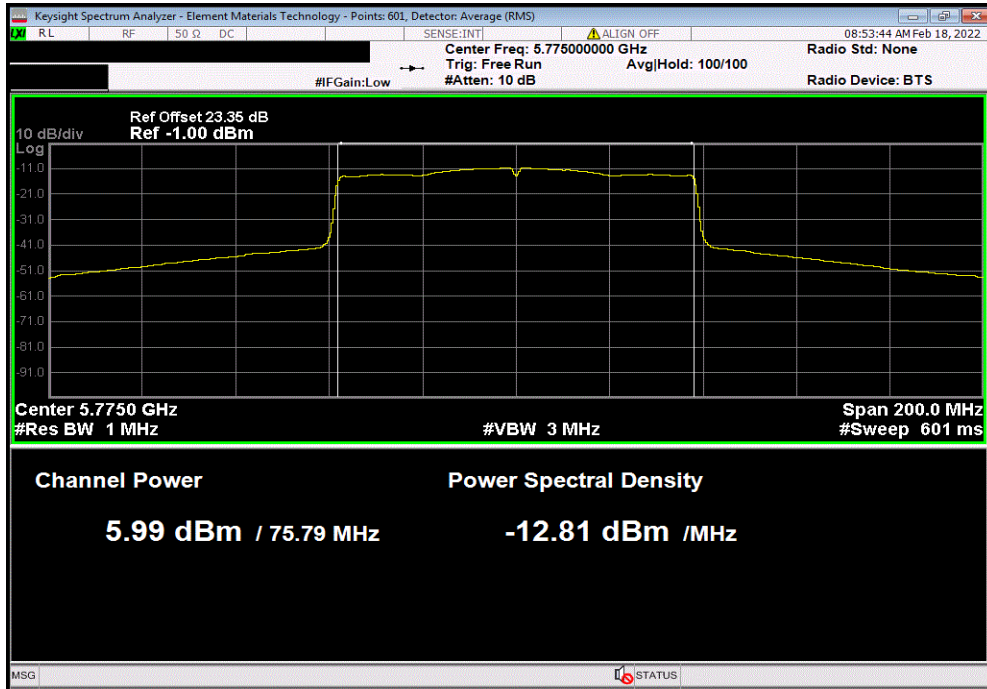


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.8 GHz BAND



TuTx 2021.10.29.2 XMI 2022.02.07.0

80 MHz, 802.11(ac) MCS0, Ch 149-161, Low Channel 5775 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
5.986	0.2	6.2	5.2	11.4	36	Pass



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 149-161, Low Channel 5775 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
4.148	1	5.1	5.2	10.3	36	Pass

