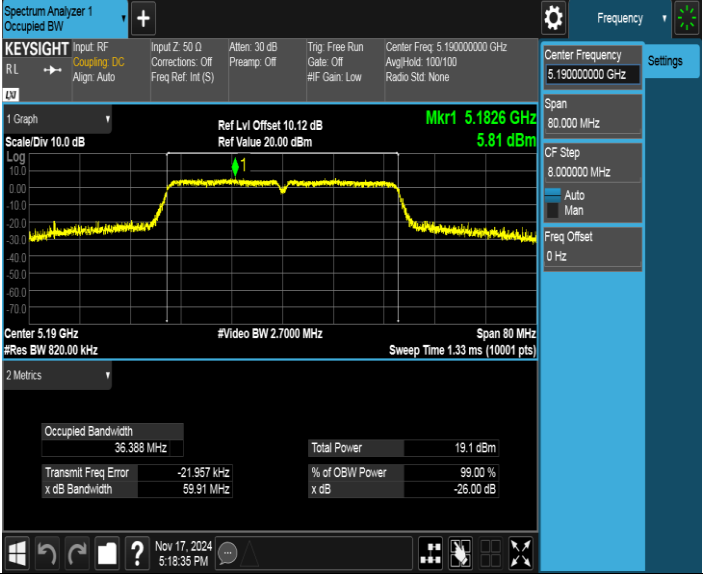
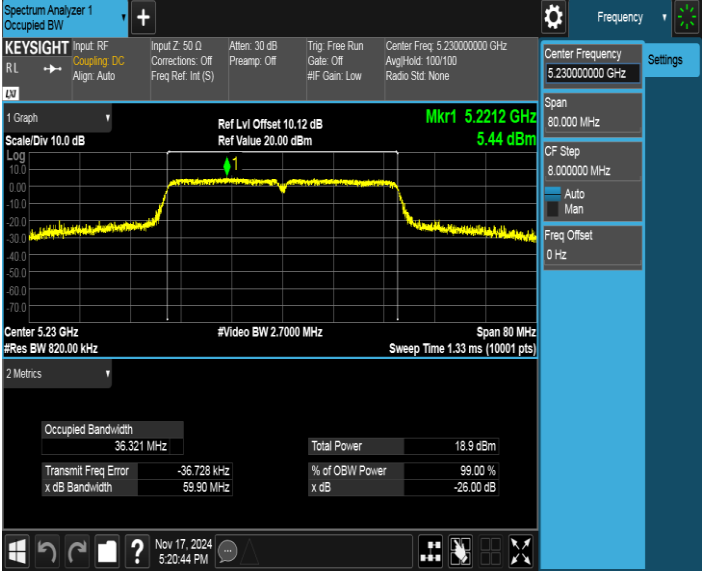
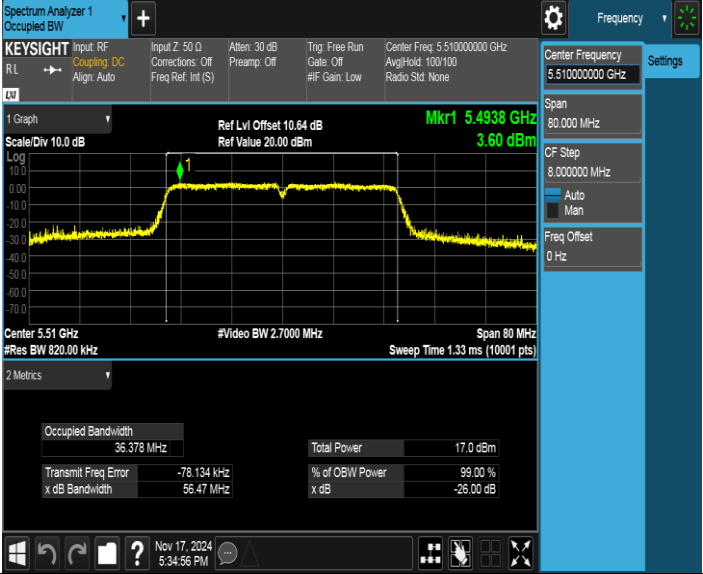


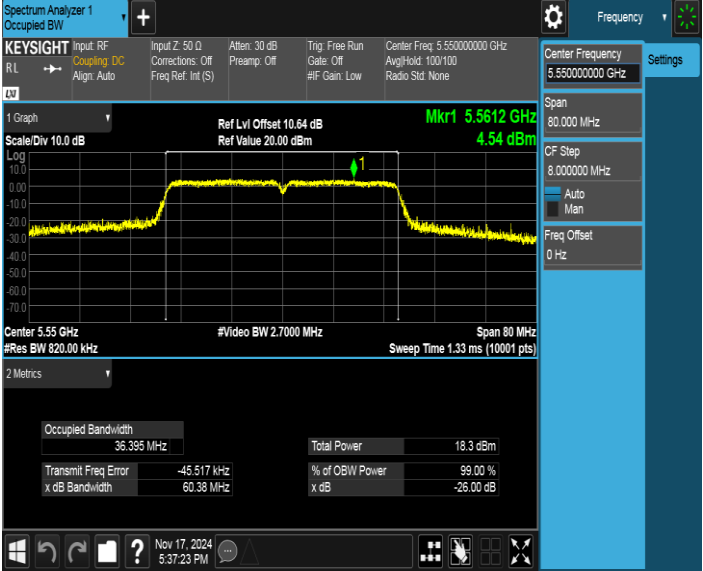
Test Mode	Test Channel	Verdict
11ac VHT40	5190	PASS
 Spectrum Analyzer 1 KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.19000000 GHz Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.12 dB Mkr1: 5.1826 GHz 5.81 dBm Ref Value: 20.00 dBm Center: 5.19 GHz #Video BW: 2.7000 MHz Span: 80 MHz #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth: 36.388 MHz Total Power: 19.1 dBm Transmit Freq Error: -21.957 kHz % of OBIW Power: 99.00 % x dB Bandwidth: 59.91 MHz x dB: -26.00 dB Nov 17, 2024 5:18:35 PM		

Test Mode	Test Channel	Verdict
11ac VHT40	5230	PASS
 Spectrum Analyzer 1 KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.23000000 GHz Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.12 dB Mkr1: 5.2212 GHz 5.44 dBm Ref Value: 20.00 dBm Center: 5.23 GHz #Video BW: 2.7000 MHz Span: 80 MHz #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth: 36.321 MHz Total Power: 18.9 dBm Transmit Freq Error: -36.728 kHz % of OBIW Power: 99.00 % x dB Bandwidth: 59.90 MHz x dB: -26.00 dB Nov 17, 2024 5:20:44 PM		

Test Mode	Test Channel	Verdict
11ac VHT40	5270	PASS
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.27000000 GHz Avg/Hold: 100/100 Radio Std: None 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.19 dB Ref Value: 20.00 dBm Mkr1: 5.2623 GHz 6.32 dBm Center: 5.27 GHz #Res BW: 820.00 kHz #Video BW: 2.7000 MHz Sweep Time: 1.33 ms (10001 pts) Span: 80 MHz 2 Metrics Occupied Bandwidth 36.340 MHz Transmit Freq Error -34.577 kHz x dB Bandwidth 41.08 MHz Total Power 18.8 dBm % of OBW Power 99.00 % x dB -26.00 dB Frequency Settings Center Frequency 5.27000000 GHz Span 80.000 MHz CF Step 8.0000000 MHz Auto Man Freq Offset 0 Hz Nov 17, 2024 5:23:42 PM		

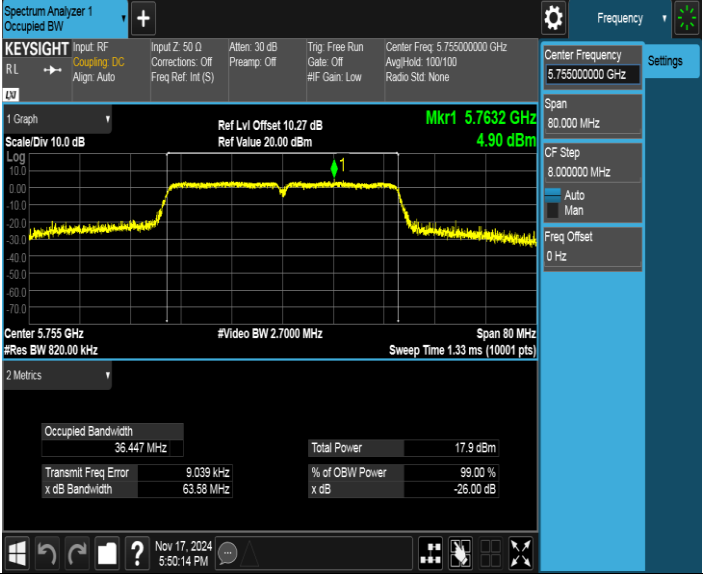
Test Mode	Test Channel	Verdict
11ac VHT40	5310	PASS
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #F Gain: Low Center Freq: 5.31000000 GHz Avg/Hold: 100/100 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 10.19 dB Ref Value 20.00 dBm Center 5.31 GHz #Res BW 820.00 kHz #Video BW 2.7000 MHz Span 80 MHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 36.390 MHz Total Power 19.1 dBm Transmit Freq Error -18.978 kHz % of OBIW Power 99.00 % x dB Bandwidth 58.82 MHz x dB -26.00 dB Nov 17, 2024 5:32:35 PM		

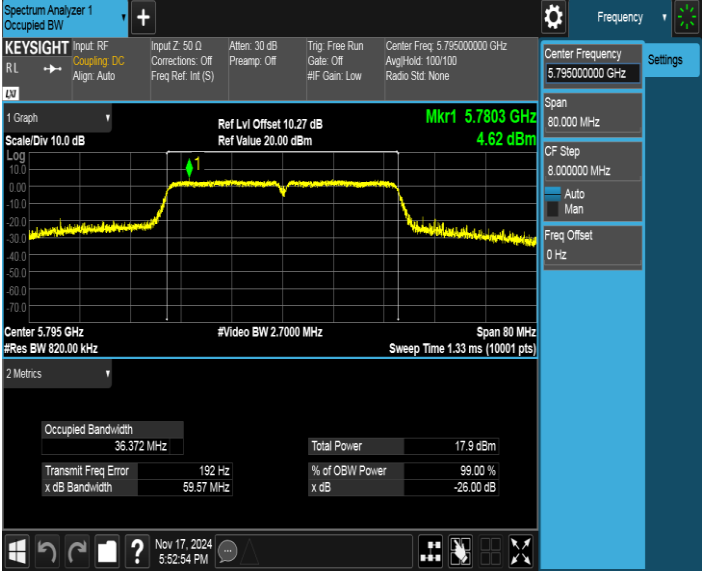
Test Mode	Test Channel	Verdict
11ac VHT40	5510	PASS
		

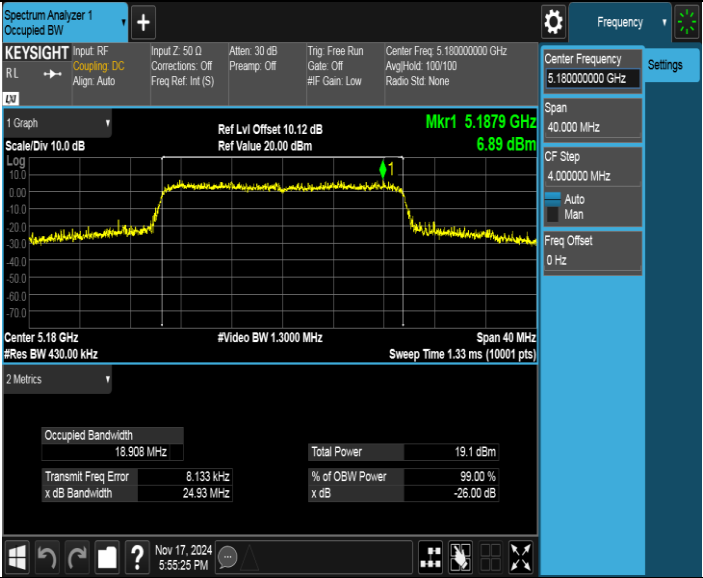
Test Mode	Test Channel	Verdict
11ac VHT40	5550	PASS
		

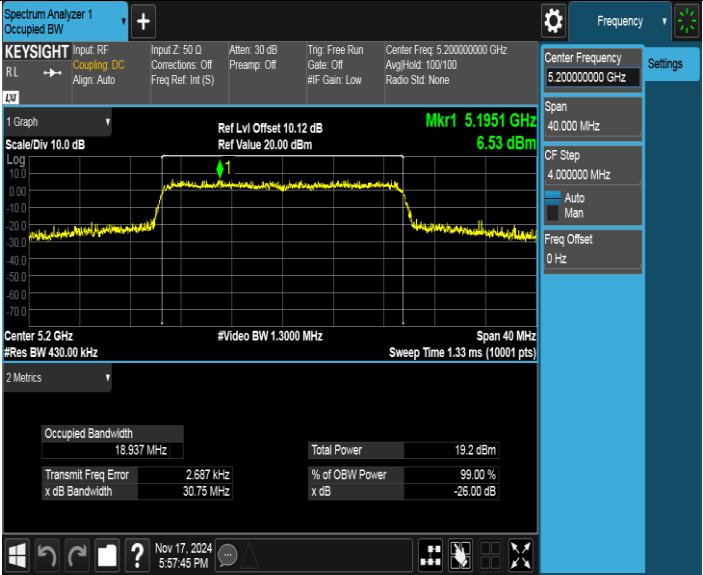
Test Mode	Test Channel	Verdict
11ac VHT40	5670	PASS
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.670000000 GHz Avg/Hold: 100/100 Radio Std: None 1 Graph Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Ref Lvl Offset 10.53 dB Ref Value 20.00 dBm Mkr1 5.6632 GHz 4.70 dBm Center 5.67 GHz #Video BW 2.7000 MHz Span 80 MHz #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 36.358 MHz Total Power 18.5 dBm Transmit Freq Error -12.395 kHz % of OBIW Power 99.00 % x dB Bandwidth 61.39 MHz x dB -26.00 dB Nov 17, 2024 5:43:02 PM Frequency Settings Center Frequency 5.670000000 GHz Span 80.000 MHz CF Step 8.0000000 MHz Auto Man Freq Offset 0 Hz		

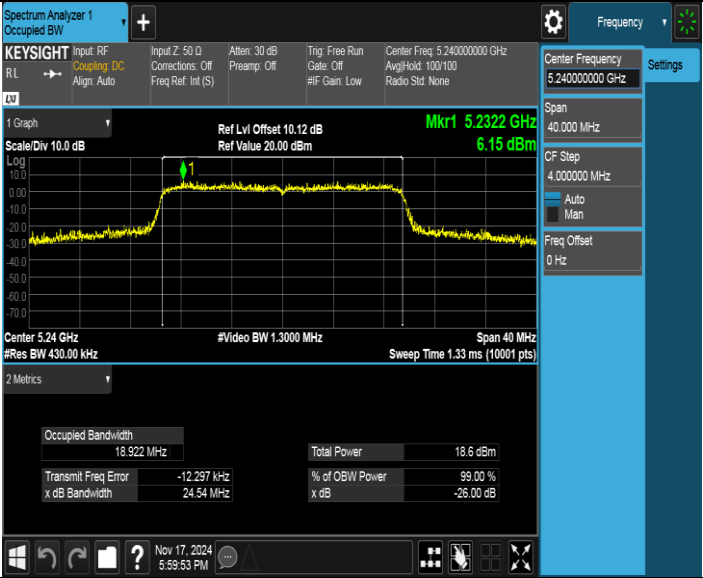
Test Mode	Test Channel	Verdict
11ac VHT40	5710	PASS
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.71000000 GHz R/L Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.27 dB Ref Value: 20.00 dBm Mkr1: 5.7013 GHz 3.86 dBm Center: 5.71 GHz #Res BW: 820.00 kHz #Video BW: 2.7000 MHz Span: 80 MHz Sweep Time: 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 36.409 MHz Total Power 17.4 dBm Transmit Freq Error -76.354 kHz % of OBW Power 99.00 % x dB Bandwidth 55.23 MHz x dB -26.00 dB Frequency Settings Center Frequency 5.71000000 GHz Span 80.000 MHz CF Step 8.0000000 MHz Auto Man Freq Offset 0 Hz Nov 17, 2024 5:48:19 PM		

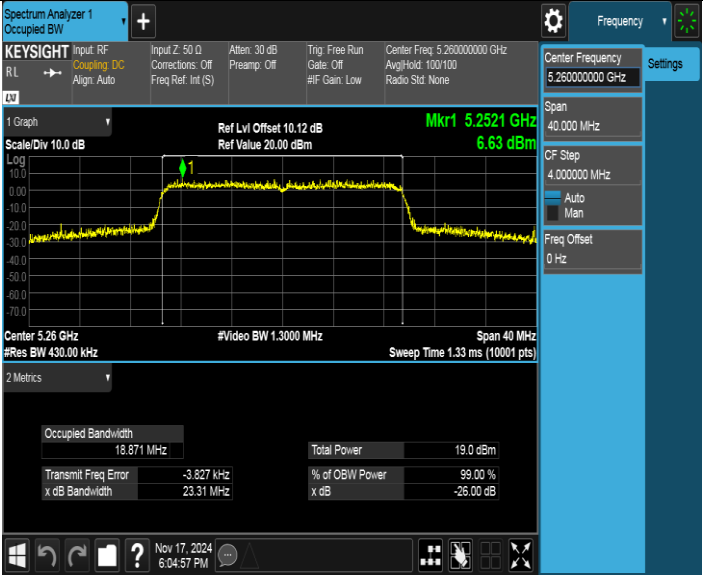
Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS
		

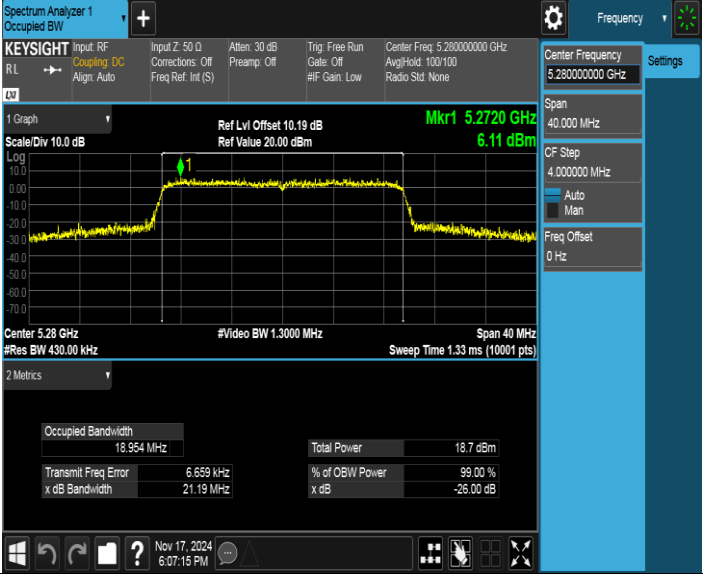
Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS
		

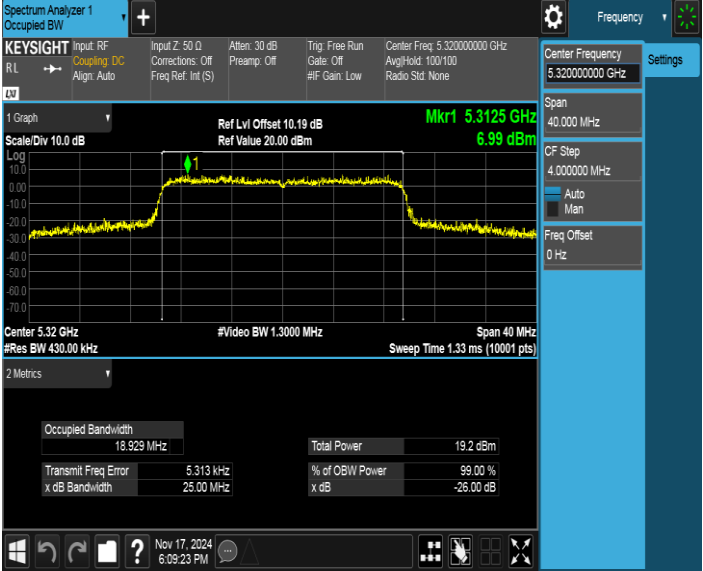
Test Mode	Test Channel	Verdict
11ax HE20	5180	PASS
 Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.18000000 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None 1 Graph Ref Lvl Offset 10.12 dB Mkr1 5.1879 GHz 6.89 dBm Scale/Div 10.0 dB Log 10.0 Center 5.18 GHz #Video BW 1.3000 MHz Span 40 MHz #Res BW 430.00 kHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 18.908 MHz Total Power 19.1 dBm Transmit Freq Error 8.133 kHz % of OBIW Power 99.00 % x dB Bandwidth 24.93 MHz x dB -26.00 dB Nov 17, 2024 5:55:25 PM		

Test Mode	Test Channel	Verdict
11ax HE20	5200	PASS
 Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.20000000 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None 1 Graph Ref Lvl Offset 10.12 dB Mkr1 5.1951 GHz 6.53 dBm Scale/Div 10.0 dB Log 10.0 Center 5.2 GHz #Video BW 1.3000 MHz Span 40 MHz #Res BW 430.00 kHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 18.937 MHz Total Power 19.2 dBm Transmit Freq Error 2.687 kHz % of OBIW Power 99.00 % x dB Bandwidth 30.75 MHz x dB -26.00 dB Nov 17, 2024 5:57:45 PM		

Test Mode	Test Channel	Verdict
11ax HE20	5240	PASS
 Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.24000000 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Radio Std: None Align: Auto Freq Ref: Int (S) #IF Gain: Low 1 Graph Ref Lvl Offset 10.12 dB Mkr1 5.2322 GHz 6.15 dBm Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 5.24 GHz #Video BW 1.3000 MHz Span 40 MHz #Res BW 430.00 kHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 18.922 MHz Total Power 18.6 dBm Transmit Freq Error -12.237 kHz % of OBIW Power 99.00 % x dB Bandwidth 24.54 MHz x dB -26.00 dB Nov 17, 2024 5:59:53 PM		

Test Mode	Test Channel	Verdict
11ax HE20	5260	PASS
 Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.26000000 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Radio Std: None Align: Auto Freq Ref: Int (S) #IF Gain: Low 1 Graph Ref Lvl Offset 10.12 dB Mkr1 5.2521 GHz 6.63 dBm Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 5.26 GHz #Video BW 1.3000 MHz Span 40 MHz #Res BW 430.00 kHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 18.871 MHz Total Power 19.0 dBm Transmit Freq Error -3.827 kHz % of OBIW Power 99.00 % x dB Bandwidth 23.31 MHz x dB -26.00 dB Nov 17, 2024 6:04:57 PM		

Test Mode	Test Channel	Verdict
11ax HE20	5280	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5320	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5500	PASS
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #F Gain: Low Center Freq: 5.500000000 GHz Avg/Hold: 100/100 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 10.64 dB Ref Value 20.00 dBm Mkr1 5.4926 GHz 5.21 dBm Center 5.5 GHz #Res BW 430.00 kHz #Video BW 1.3000 MHz Span 40 MHz Sweep Time 1.33 ms (10001 pts) 2 Metrics Occupied Bandwidth 18.904 MHz Total Power 17.6 dBm Transmit Freq Error -1.456 kHz % of OBW Power 99.00 % x dB Bandwidth 20.49 MHz x dB -26.00 dB Frequency Settings Center Frequency 5.500000000 GHz Span 40.000 MHz CF Step 4.0000000 MHz Auto Man Freq Offset 0 Hz Nov 17, 2024 6:11:41 PM		

Test Mode	Test Channel	Verdict
11ax HE20	5580	PASS

Spectrum Analyzer 1
Occupied BW

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corrections: Off

Freq Ref: Int (S)

Atten: 30 dB

Preamp: Off

Trig: Free Run

Gate: Off

#F Gain: Low

Center Freq: 5.580000000 GHz

Avg/Hold: 100/100

Radio Std: None

Frequency

Settings

Center Frequency
5.580000000 GHz

Span
40.000 MHz

CF Step
4.0000000 MHz

Auto
Man

Freq Offset
0 Hz

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 10.64 dB

Ref Value 20.00 dBm

Mkr1 5.5845 GHz

5.08 dBm

Center 5.58 GHz

#Video BW 1.3000 MHz

Span 40 MHz

#Res BW 430.00 kHz

Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth
18.914 MHz

Total Power
17.8 dBm

Transmit Freq Error
6.395 kHz

% of OBW Power
99.00 %

x dB Bandwidth
24.85 MHz

x dB
-26.00 dB

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6:14:21 PM

Test Mode	Test Channel	Verdict
11ax HE20	5700	PASS

Spectrum Analyzer 1
Occupied BW

KEYSIGHT

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

Atten: 30 dB
Preamp: Off

Trig: Free Run
Gate: Off
#IF Gain: Low

Center Freq: 5.700000000 GHz
Avg/Hold: 100/100
Radio Std: None

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 10.53 dB
Ref Value 20.00 dBm

Mkr1 5.6923 GHz
5.98 dBm

Center 5.7 GHz
#Res BW 430.00 kHz

#Video BW 1.3000 MHz

Span 40 MHz
Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth
18.938 MHz

Total Power
17.6 dBm

Transmit Freq Error
-5.286 kHz

% of OBIW Power
99.00 %

x dB Bandwidth
21.10 MHz

x dB
-26.00 dB

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6:16:40 PM

Frequency

Settings

Center Frequency
5.700000000 GHz

Span
40.000 MHz

CF Step
4.0000000 MHz

Auto
Man

Freq Offset
0 Hz

Test Mode	Test Channel	Verdict
11ax HE20	5720	PASS

Spectrum Analyzer 1
Occupied BW

KEYSIGHT

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

Atten: 30 dB
Preamp: Off

Trig: Free Run
Gate: Off
#IF Gain: Low

Center Freq: 5.720000000 GHz
Avg/Hold: 100/100
Radio Std: None

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 10.27 dB
Ref Value 20.00 dBm

Mkr1 5.7157 GHz
4.67 dBm

Center 5.72 GHz
#Res BW 430.0 kHz

#Video BW 1.3000 MHz

Sweep Time 1.33 ms (10001 pts)

Span 40 MHz

2 Metrics

Occupied Bandwidth
18.934 MHz

Total Power
16.9 dBm

Transmit Freq Error
2.217 kHz

% of OBW Power
99.00 %

x dB Bandwidth
25.52 MHz

x dB
-26.00 dB

Frequency

Settings

Center Frequency
5.720000000 GHz

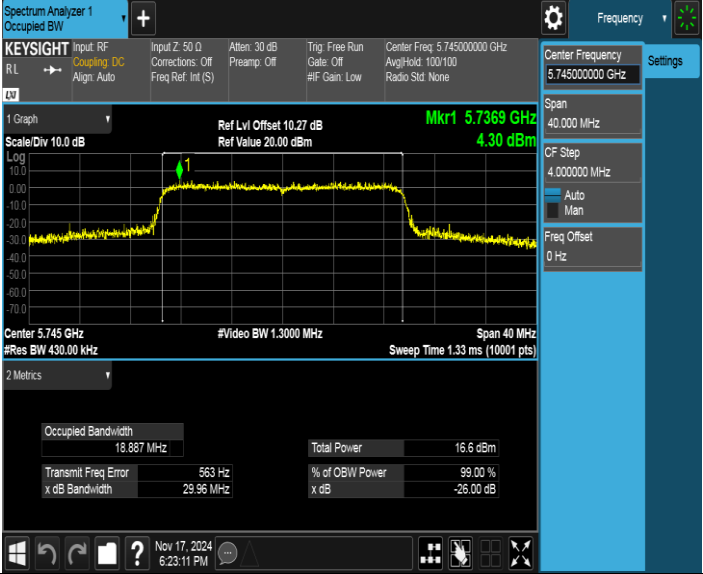
Span
40.000 MHz

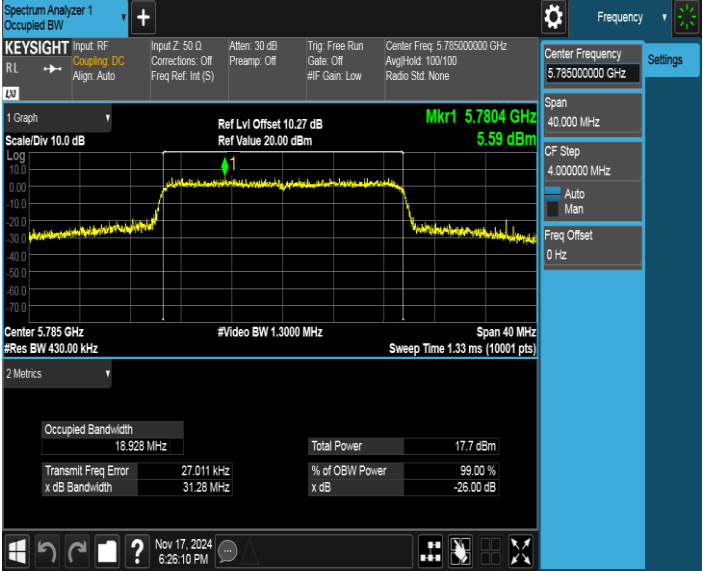
CF Step
4.0000000 MHz

Auto
Man

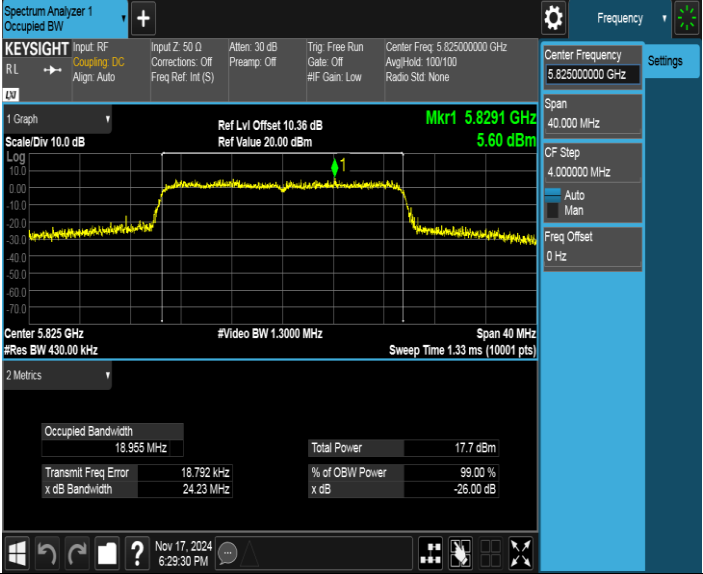
Freq Offset
0 Hz

Nov 17, 2024
6:19:23 PM

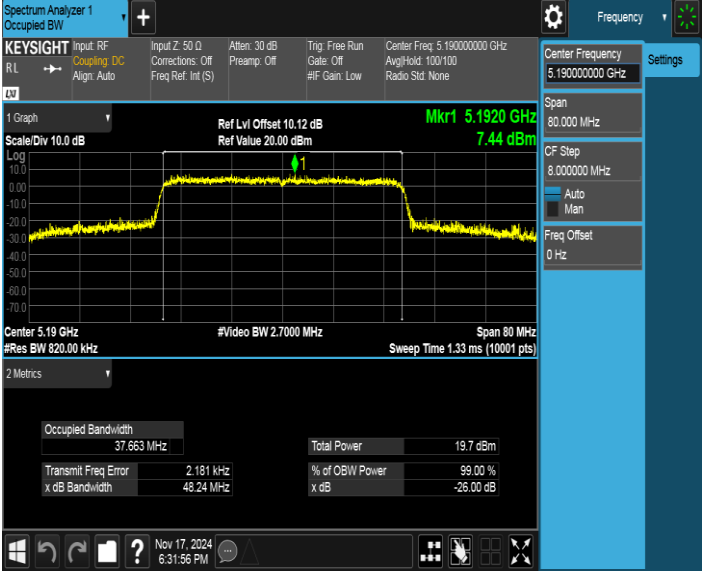
Test Mode	Test Channel	Verdict
11ax HE20	5745	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS
		

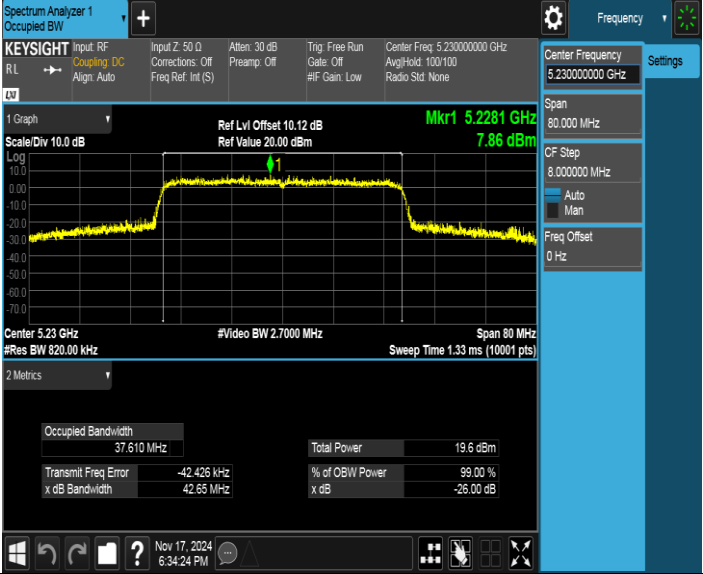
Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5190	PASS



Test Mode	Test Channel	Verdict
11ax HE40	5230	PASS



Spectrum Analyzer 1
Occupied BW

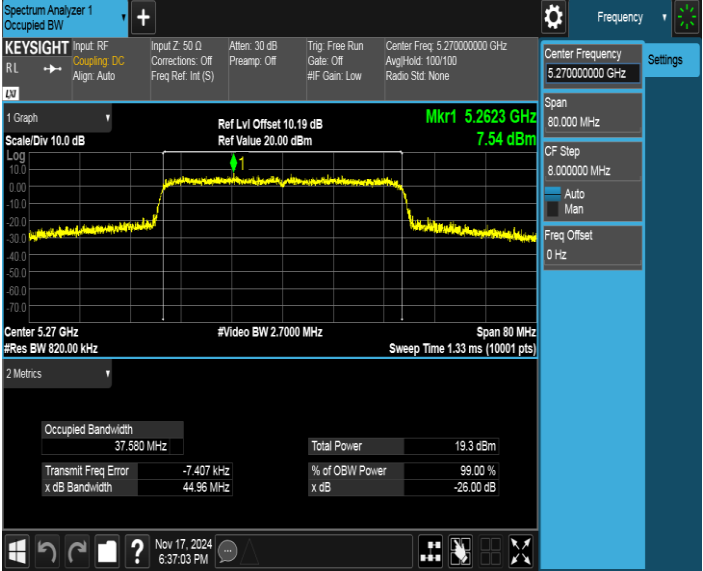
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.23000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.12 dB Mkr1: 5.2281 GHz 7.86 dBm
 #Video BW: 2.7000 MHz Span: 80 MHz
 Center: 5.23 GHz #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics
 Occupied Bandwidth: 37.610 MHz Total Power: 19.6 dBm
 Transmit Freq Error: -42.426 kHz % of OBIW Power: 99.00 %
 x dB Bandwidth: 42.65 MHz x dB: -26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5270	PASS



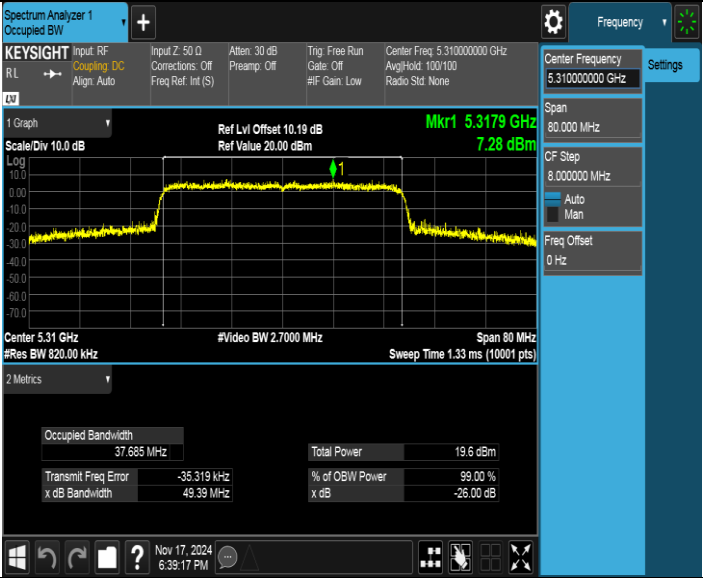
Spectrum Analyzer 1
Occupied BW

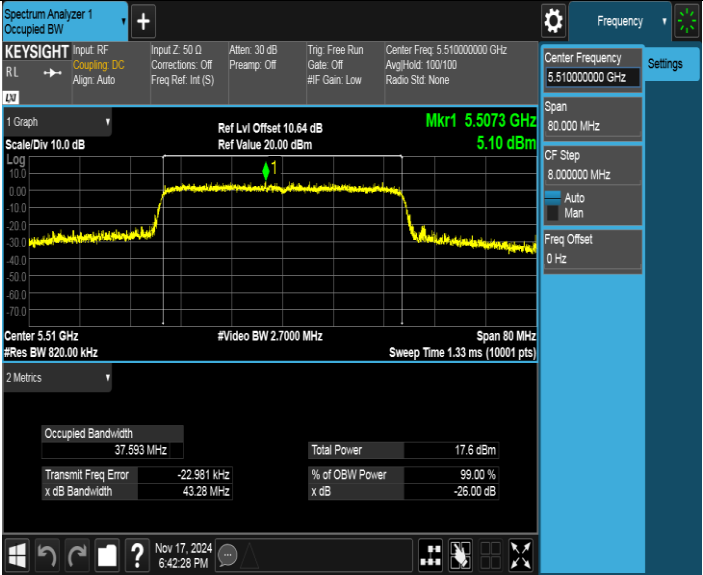
KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.27000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.19 dB Mkr1: 5.2623 GHz 7.54 dBm
 #Video BW: 2.7000 MHz Span: 80 MHz
 Center: 5.27 GHz #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

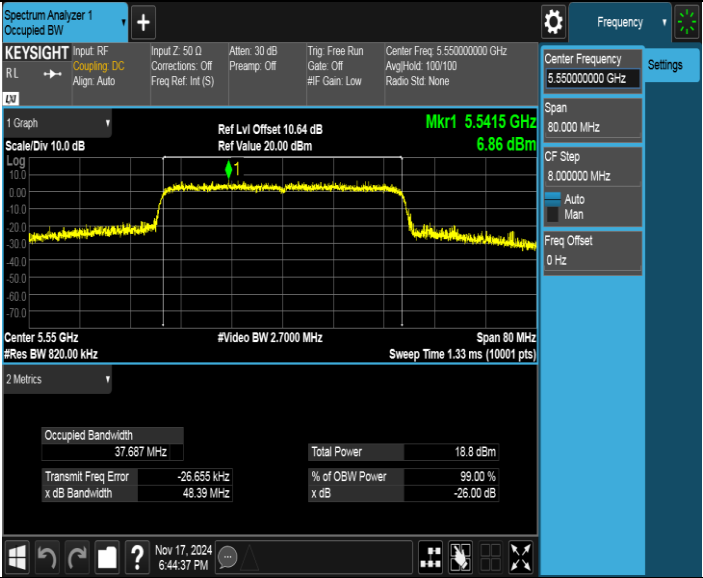
2 Metrics
 Occupied Bandwidth: 37.580 MHz Total Power: 19.3 dBm
 Transmit Freq Error: -7.407 kHz % of OBIW Power: 99.00 %
 x dB Bandwidth: 44.96 MHz x dB: -26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5310	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5510	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5550	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.55000000 GHz
 R/L → Coupling: DC Corrections: Off Freq Ref: Int (S) Preamp: Off Gate: Off Avg/Hold: 100/100
 Align: Auto #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.64 dB Mkr1: 5.5415 GHz 6.86 dBm
 Ref Value: 20.00 dBm

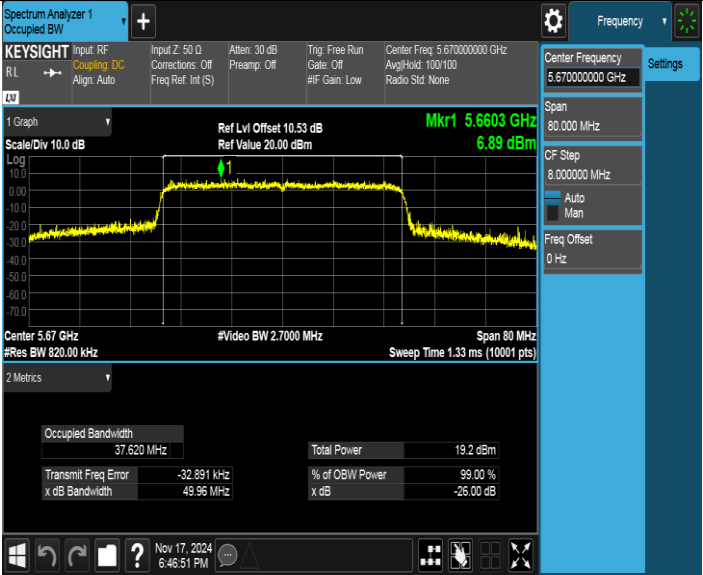
Center: 5.55 GHz #Video BW: 2.7000 MHz Span: 80 MHz
 #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	37.687 MHz	Total Power	18.8 dBm
Transmit Freq Error	-26.655 kHz	% of OBIW Power	99.00 %
x dB Bandwidth	48.39 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5670	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.67000000 GHz
 R/L → Coupling: DC Corrections: Off Freq Ref: Int (S) Preamp: Off Gate: Off Avg/Hold: 100/100
 Align: Auto #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.53 dB Mkr1: 5.6603 GHz 6.89 dBm
 Ref Value: 20.00 dBm

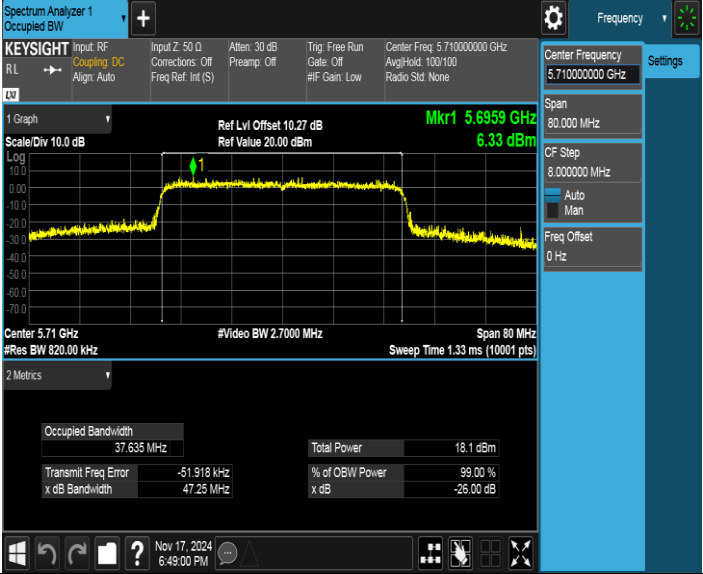
Center: 5.67 GHz #Video BW: 2.7000 MHz Span: 80 MHz
 #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	37.620 MHz	Total Power	19.2 dBm
Transmit Freq Error	-32.881 kHz	% of OBIW Power	99.00 %
x dB Bandwidth	49.96 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5710	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.710000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.27 dB Mkr1: 5.6959 GHz 6.33 dBm
 Ref Value: 20.00 dBm

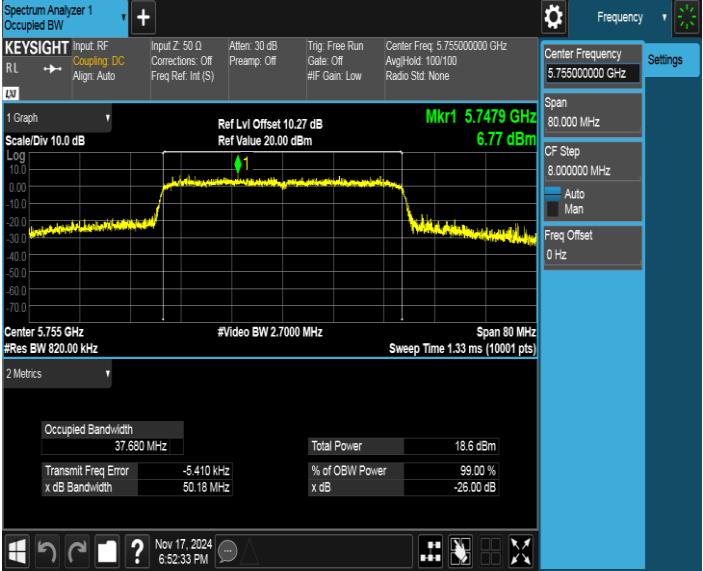
Center: 5.71 GHz #Video BW: 2.7000 MHz Span: 80 MHz
 #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	37.635 MHz	Total Power	18.1 dBm
Transmit Freq Error	-51.918 kHz	% of OBIW Power	99.00 %
x dB Bandwidth	47.25 MHz	x dB	-26.00 dB

Nov 17, 2024 6:49:00 PM

Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.755000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

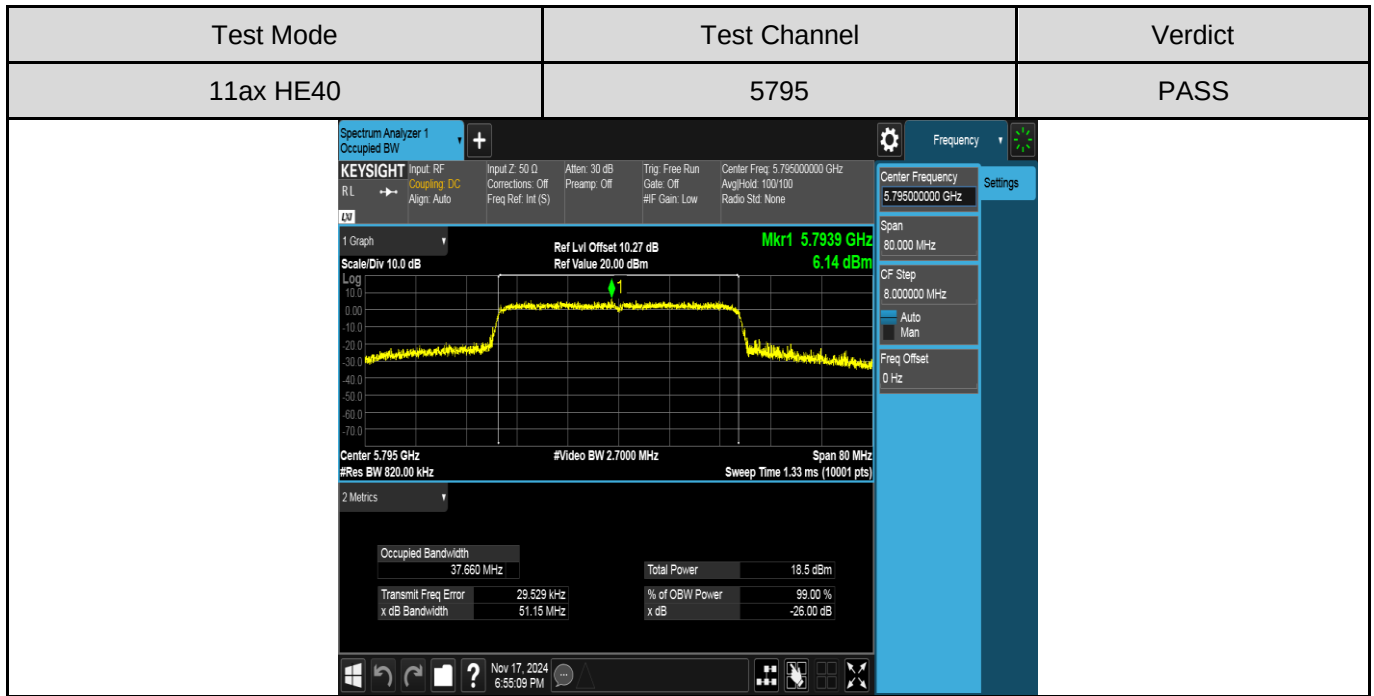
1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.27 dB Mkr1: 5.7479 GHz 6.77 dBm
 Ref Value: 20.00 dBm

Center: 5.755 GHz #Video BW: 2.7000 MHz Span: 80 MHz
 #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

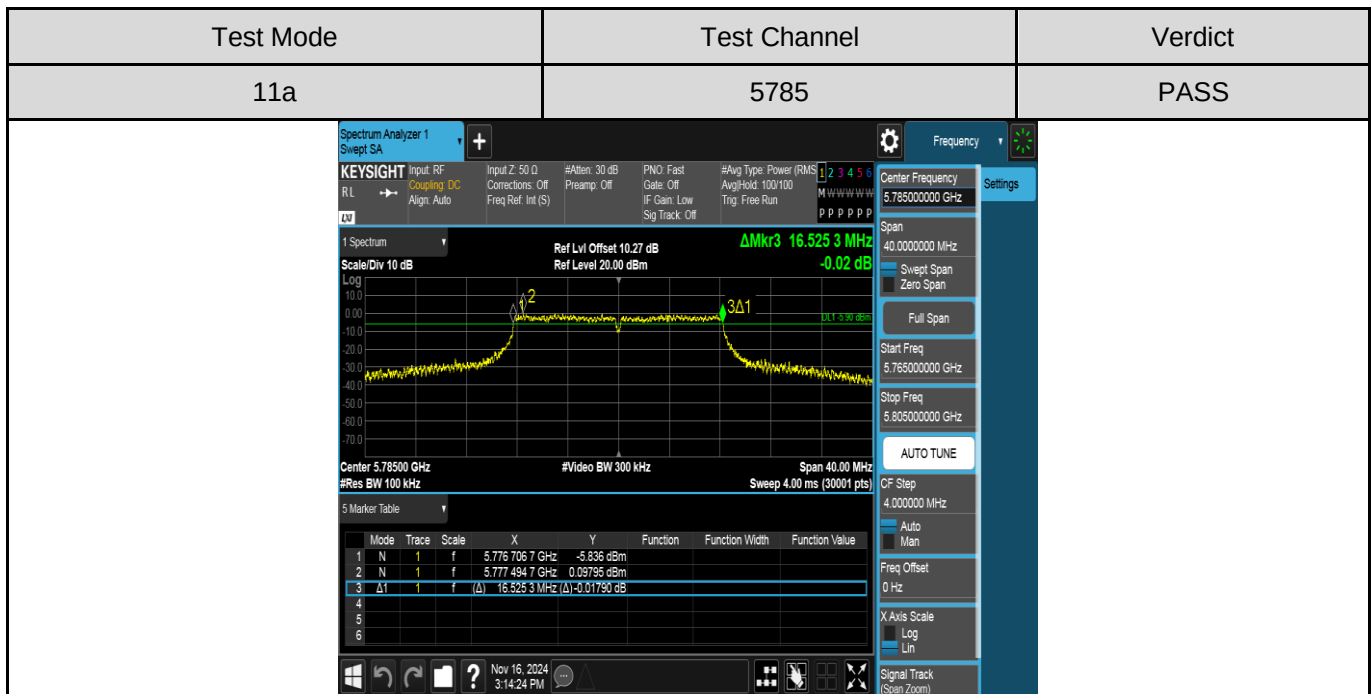
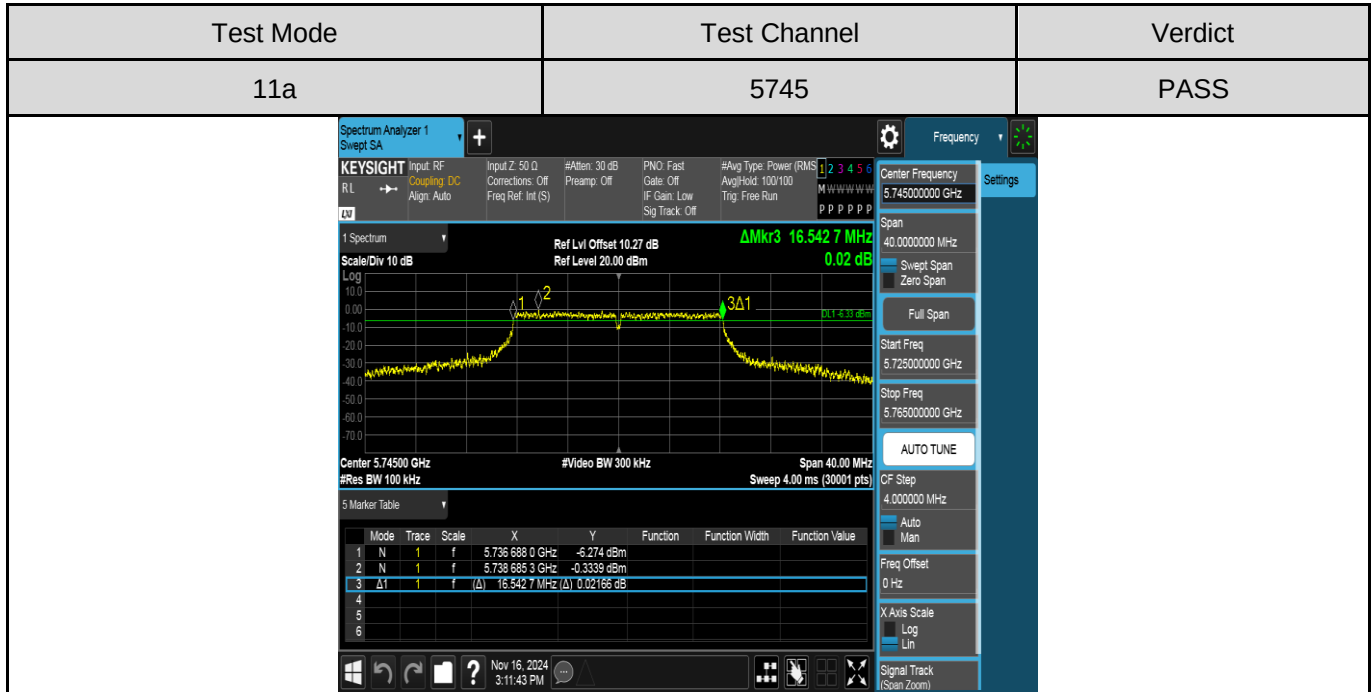
2 Metrics

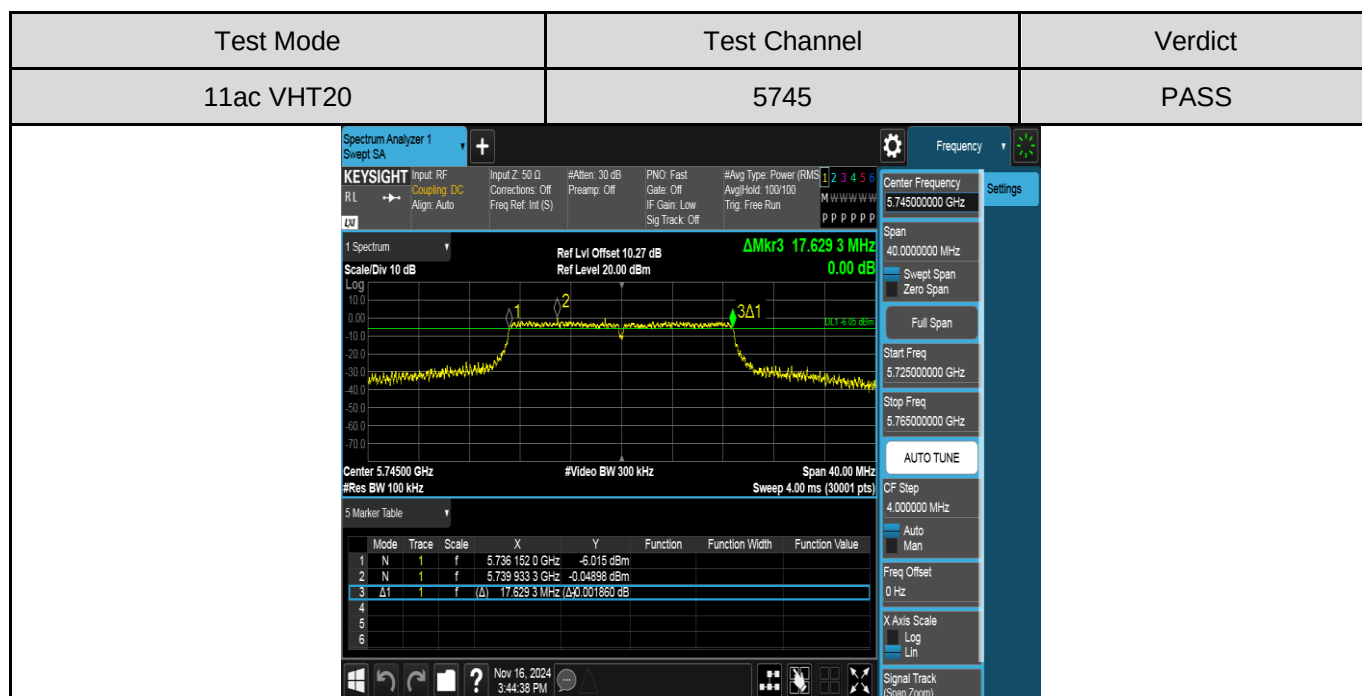
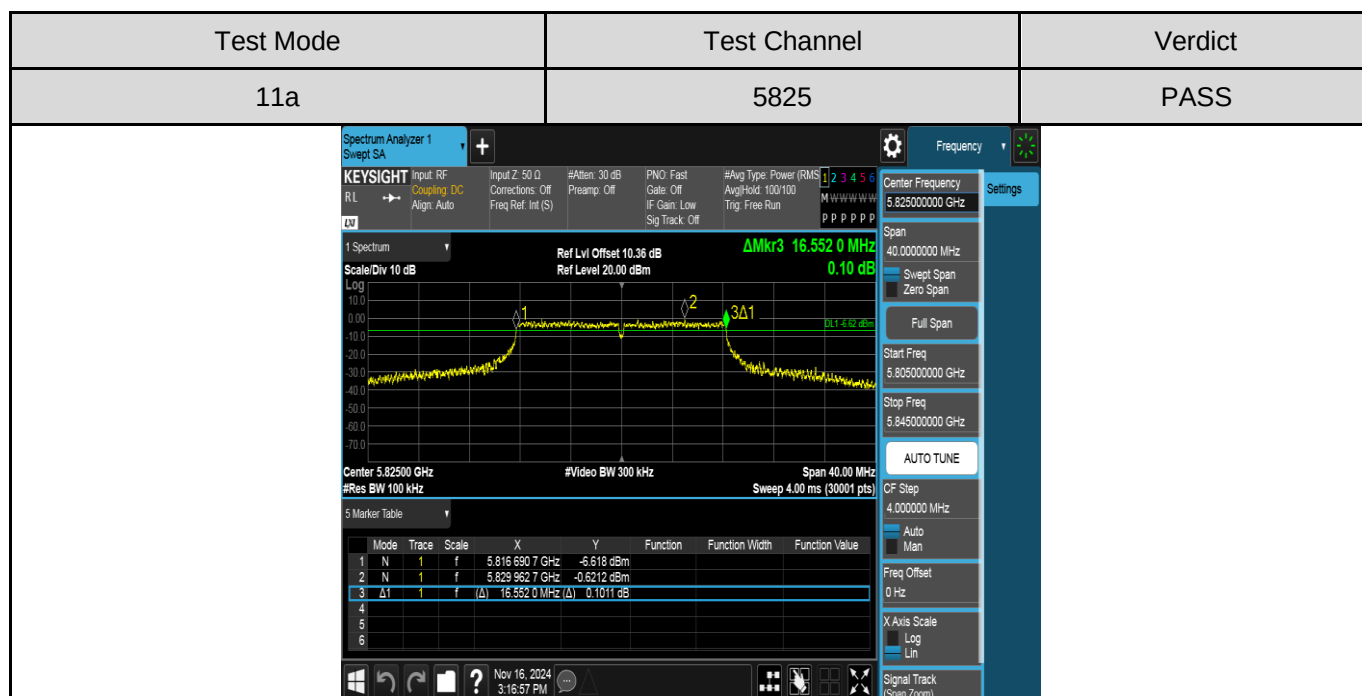
Occupied Bandwidth	37.680 MHz	Total Power	18.6 dBm
Transmit Freq Error	-6.410 kHz	% of OBIW Power	99.00 %
x dB Bandwidth	50.18 MHz	x dB	-26.00 dB

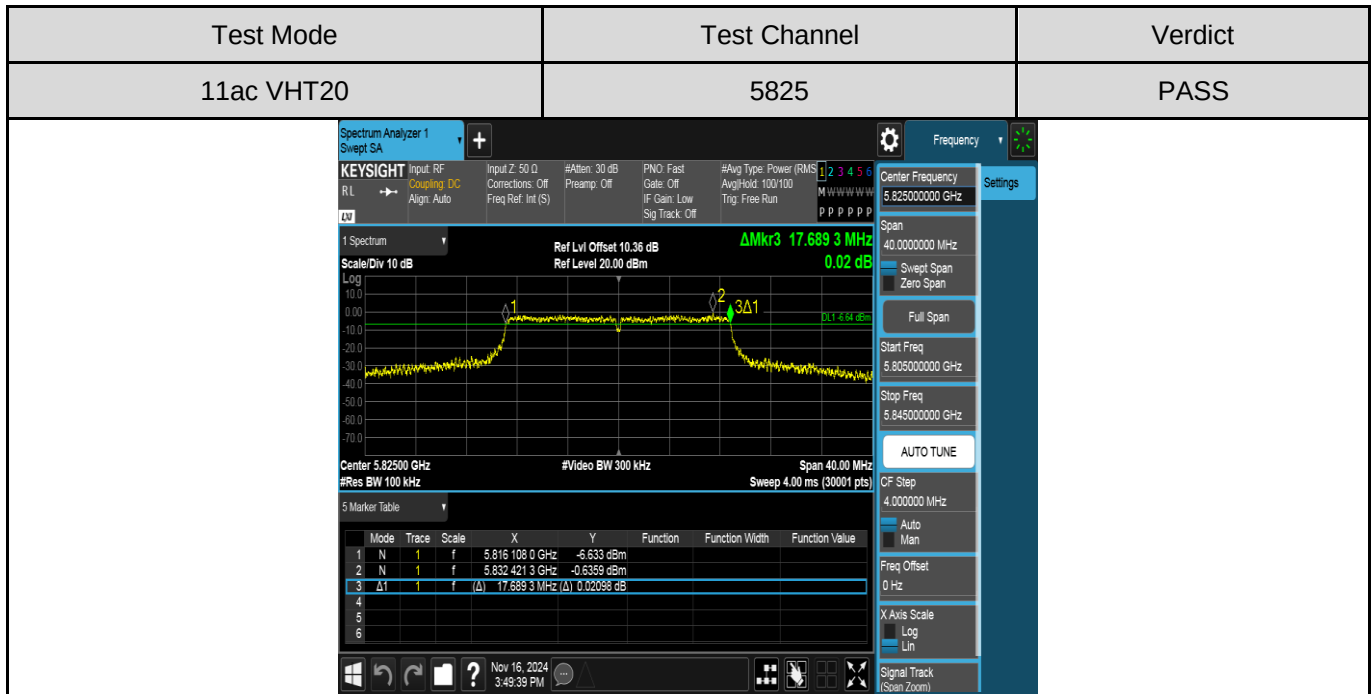
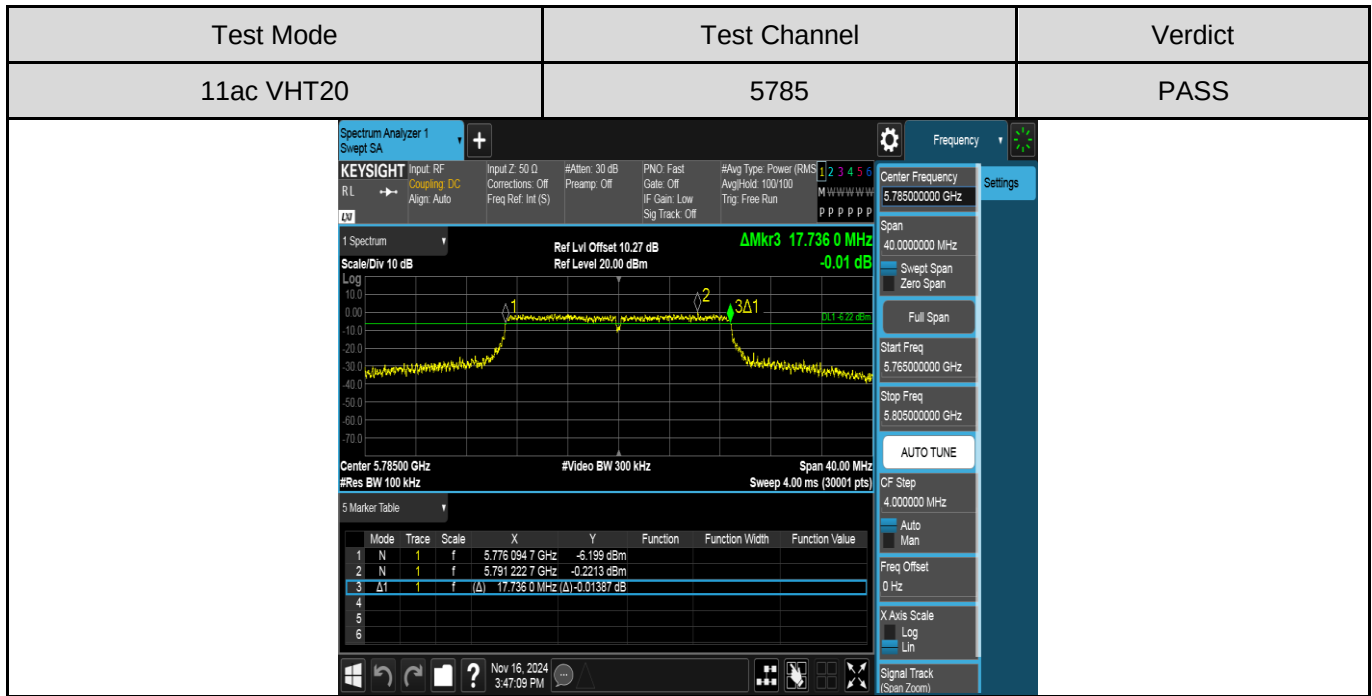
Nov 17, 2024 6:52:33 PM

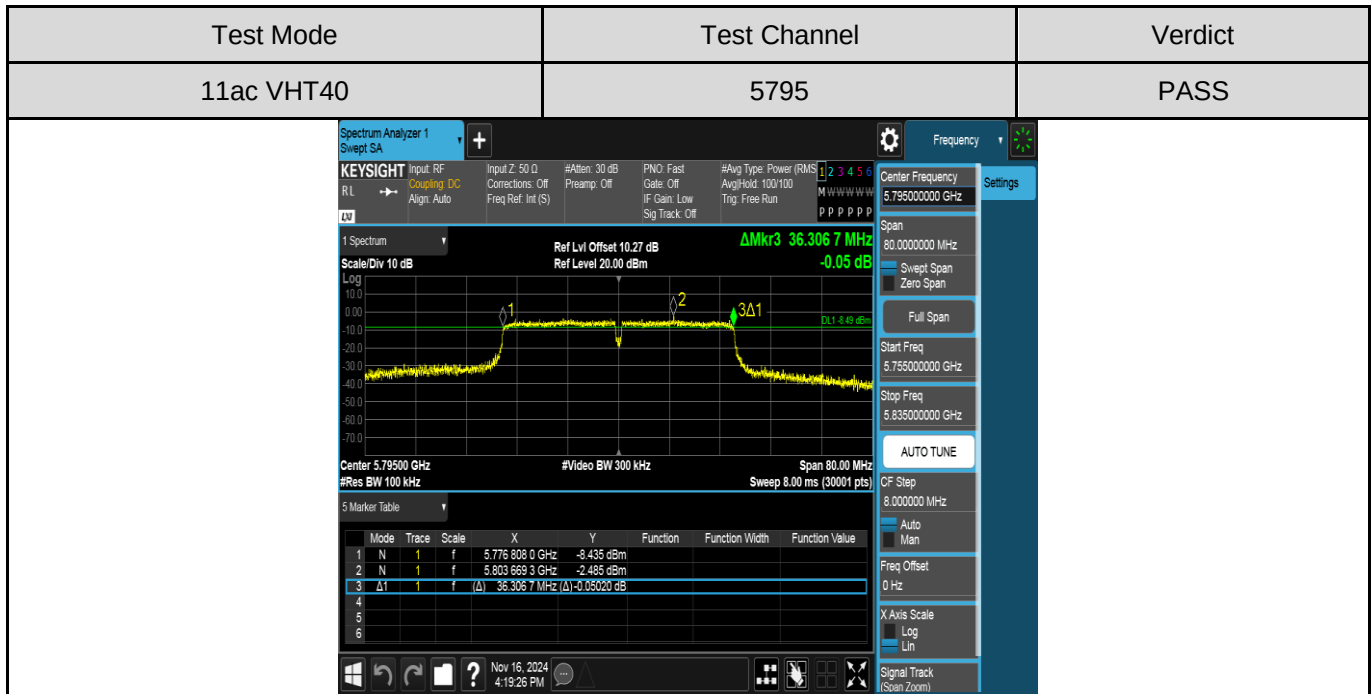
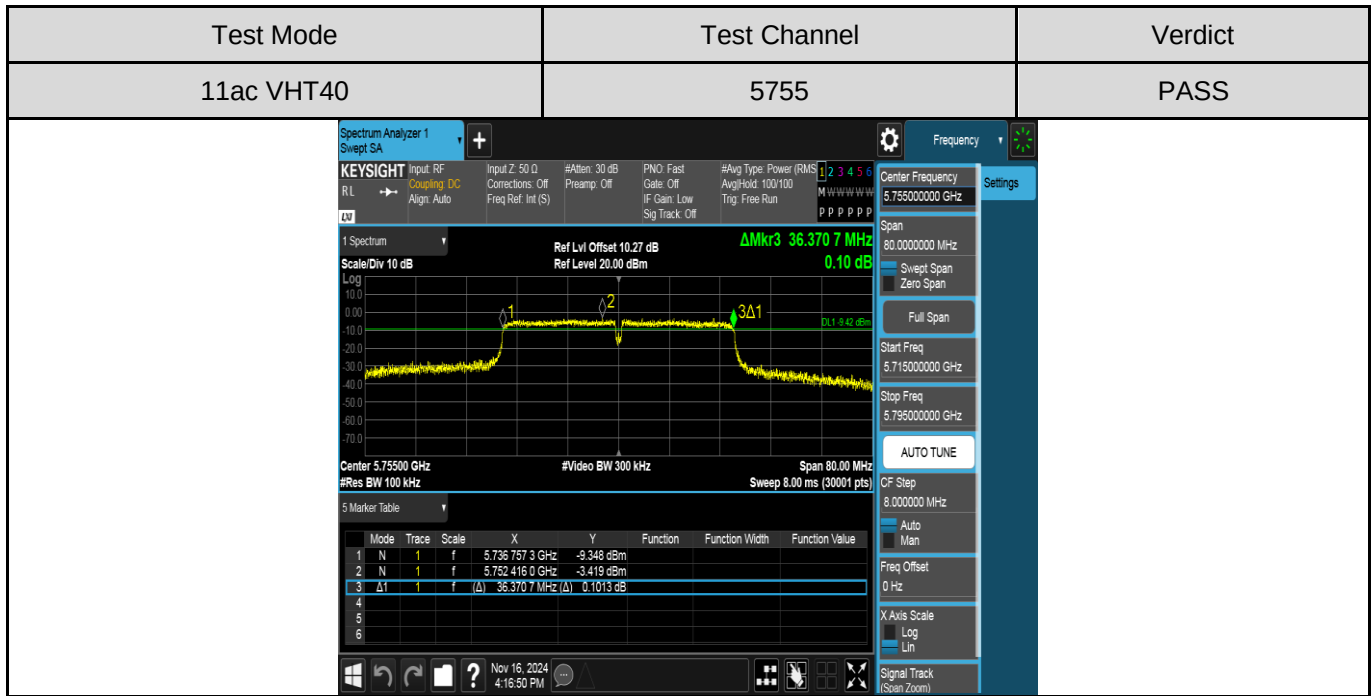


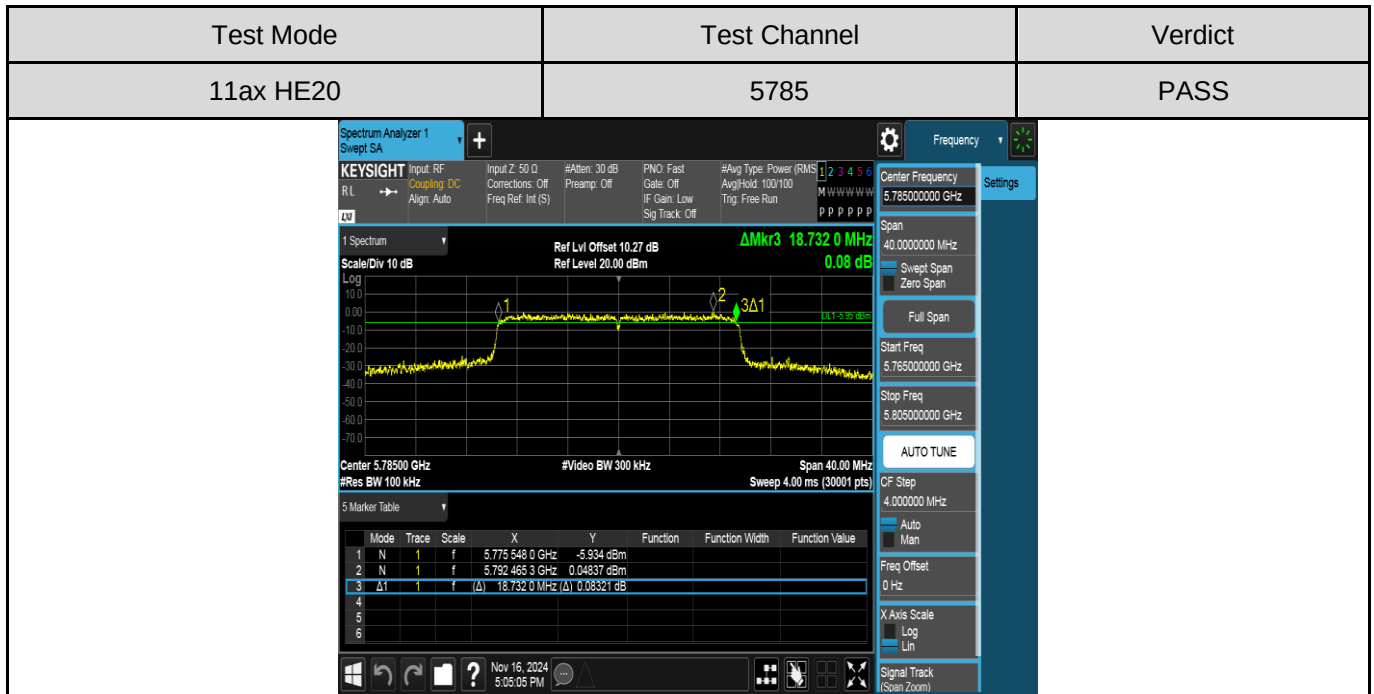
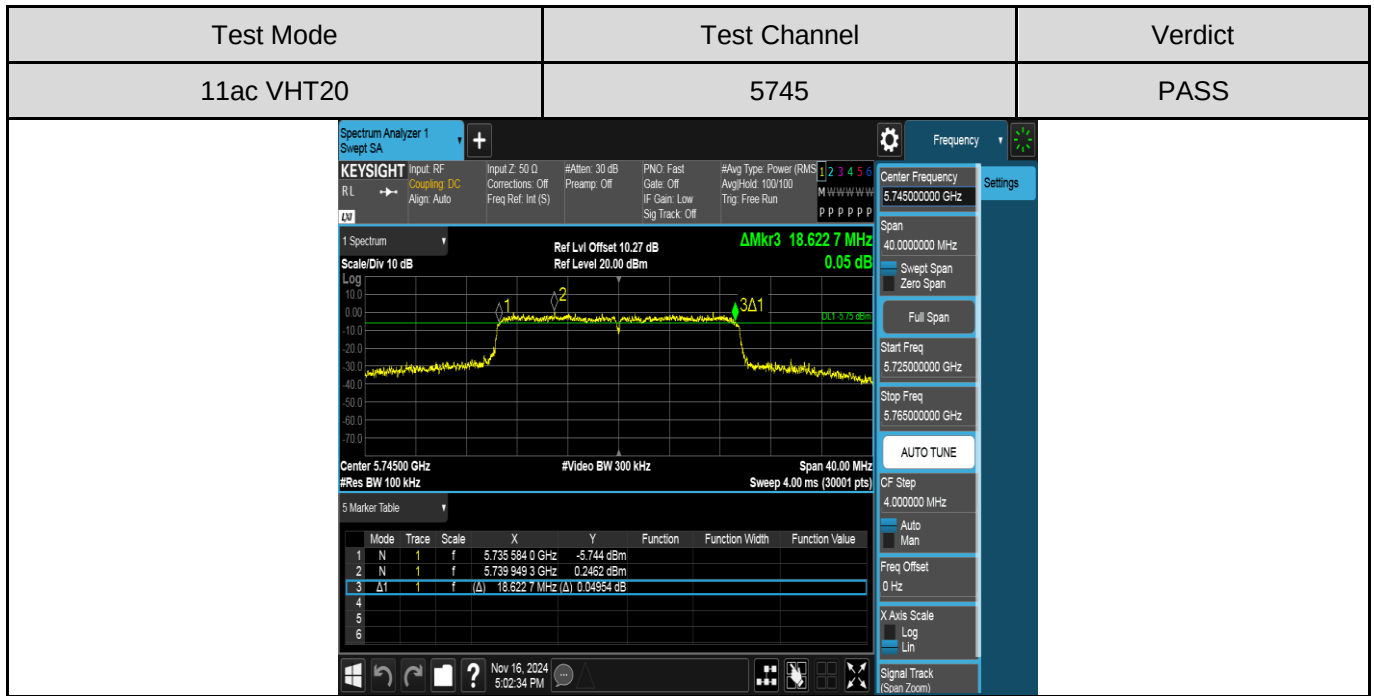
For 6 dB Emission Bandwidth Part:

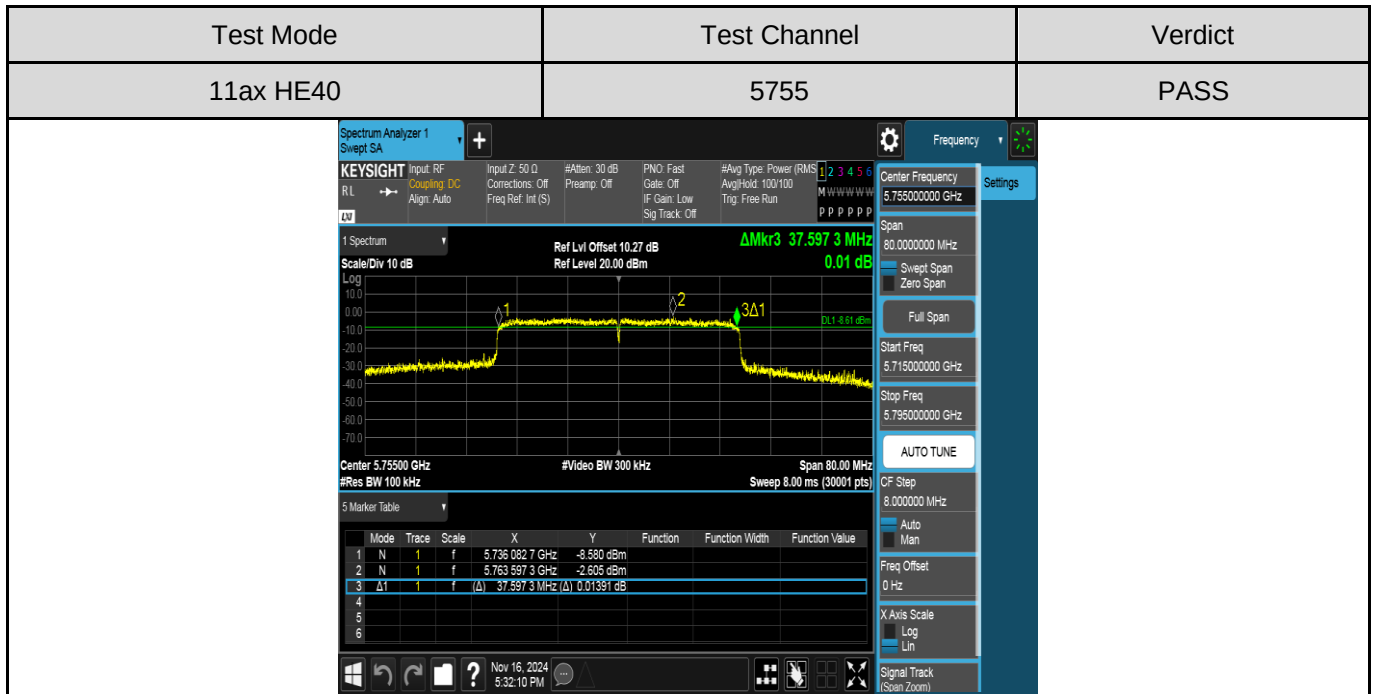
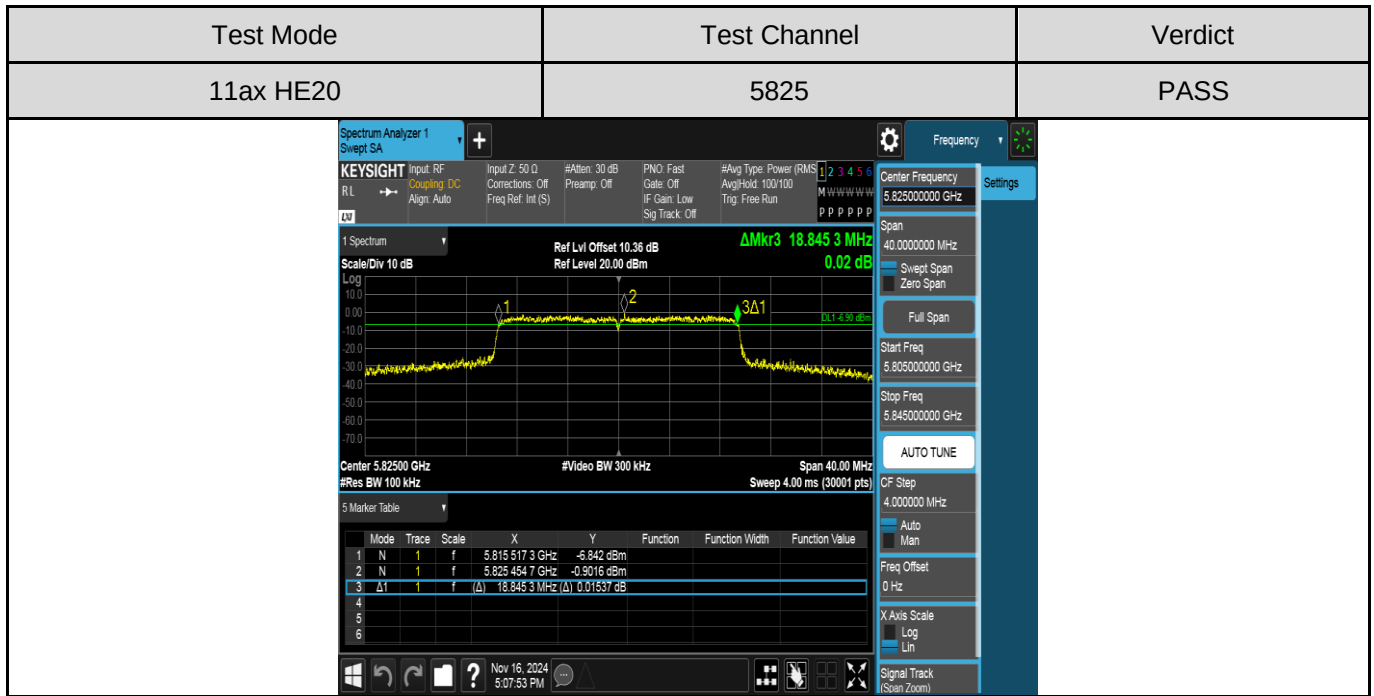


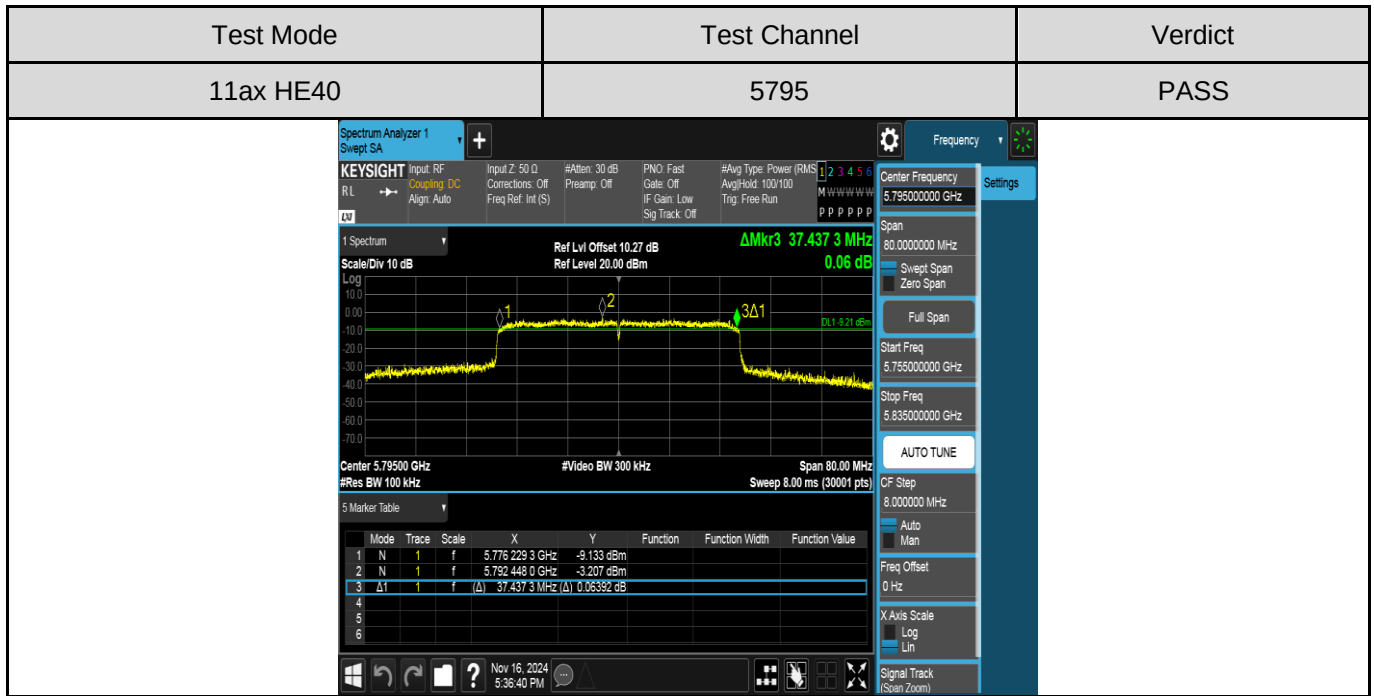












6.3. MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E RSS-247 Clause 6.2		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☒ Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Remark:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

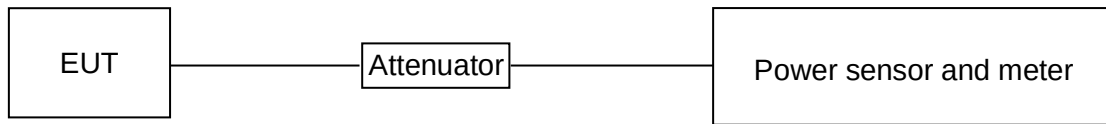
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW $\geq$ 3 MHz.
- (iv) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

TEST SETUP**TEST ENVIRONMENT**

Environment Parameter	Selected Values During Tests
Relative Humidity	60%
Atmospheric Pressure:	101kPa
Temperature	22.2°C
Test Voltage	AC 120V
Test Date	11/17/2024

TEST RESULT TABLE

Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11a	5180	13.05	0	13.05	24.00	/	1.08	14.13	22.33
	5200	13.03	0	13.03	24.00	/	1.08	14.11	22.34
	5240	12.52	0	12.52	24.00	/	1.08	13.60	22.32
	5260	12.73	0	12.73	24.00	23.33	1.08	13.81	29.33
	5280	12.52	0	12.52	24.00	23.32	1.08	13.60	29.32
	5320	12.95	0	12.95	24.00	23.35	1.08	14.03	29.35
	5500	10.82	0	10.82	24.00	23.31	1.08	11.90	29.31
	5580	10.96	0	10.96	24.00	23.33	1.08	12.04	29.33
	5700	11.02	0	11.02	24.00	23.32	1.08	12.10	29.32
	5720 UNII-2C	9.27	0	9.27	23.57	22.32	1.08	10.35	28.32
	5720 UNII-3	3.29	0	3.29	30.00	/	1.08	4.37	36.00
	5745	10.00	0	10.00	30.00	/	1.08	11.08	36.00
	5785	11.12	0	11.12	30.00	/	1.08	12.20	36.00
	5825	11.07	0	11.07	30.00	/	1.08	12.15	36.00

Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT20	5180	12.90	0	12.90	24.00	/	1.08	13.98	22.56
	5200	12.94	0	12.94	24.00	/	1.08	14.02	22.58
	5240	12.46	0	12.46	24.00	/	1.08	13.54	22.56
	5260	12.70	0	12.70	24.00	23.56	1.08	13.78	29.56
	5280	12.50	0	12.50	24.00	23.56	1.08	13.58	29.56
	5320	12.96	0	12.96	24.00	23.56	1.08	14.04	29.56
	5500	10.95	0	12.95	24.00	23.55	1.08	14.03	29.55
	5580	11.03	0	11.03	24.00	23.55	1.08	12.11	29.55
	5700	11.03	0	11.03	24.00	23.55	1.08	12.11	29.55
	5720_UNII-2C	9.25	0	9.25	23.75	22.47	1.08	10.33	28.47
	5720_UNII-3	3.75	0	3.75	30.00	/	1.08	4.83	36.00
	5745	10.04	0	10.04	30.00	/	1.08	11.12	36.00
	5785	11.13	0	11.13	30.00	/	1.08	12.21	36.00
	5825	11.10	0	11.10	30.00	/	1.08	12.18	36.00

Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5190	12.59	0	12.59	24.00	24.00	1.08	13.67	23.00
	5230	12.55	0	12.55	24.00	24.00	1.08	13.63	23.00
	5270	12.49	0	12.49	24.00	24.00	1.08	13.57	30.00
	5310	13.01	0	13.01	24.00	24.00	1.08	14.09	30.00
	5510	10.55	0	10.55	24.00	24.00	1.08	11.63	30.00
	5550	11.59	0	11.59	24.00	24.00	1.08	12.67	30.00
	5670	11.61	0	11.61	24.00	24.00	1.08	12.69	30.00
	5710_UNII-2C	10.22	0	10.22	24.00	24.00	1.08	11.30	30.00
	5710_UNII-3	-1.03	0	-1.03	30.00	/	1.08	0.05	36.00
	5755	10.74	0	10.74	30.00	/	1.08	11.82	36.00
	5795	11.04	0	11.04	30.00	/	1.08	12.12	36.00

Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ax HE20	5180	12.85	0	12.85	24.00	/	1.08	13.93	22.77
	5200	12.90	0	12.90	24.00	/	1.08	13.98	22.77
	5240	12.39	0	12.39	24.00	/	1.08	13.47	22.77
	5260	12.61	0	12.61	24.00	23.76	1.08	13.69	29.76
	5280	12.39	0	12.39	24.00	23.78	1.08	13.47	29.78
	5320	12.90	0	12.90	24.00	23.77	1.08	13.98	29.77
	5500	10.88	0	10.88	24.00	23.77	1.08	11.96	29.77
	5580	10.91	0	10.91	24.00	23.77	1.08	11.99	29.77
	5700	10.92	0	10.92	24.00	23.77	1.08	12.00	29.77
	5720_UNII-2C	9.09	0	9.09	23.77	22.60	1.08	10.17	28.60
	5720_UNII-3	3.89	0	3.89	30.00	/	1.08	4.97	36.00
	5745	9.95	0	9.95	30.00	/	1.08	11.03	36.00
	5785	11.02	0	11.02	30.00	/	1.08	12.10	36.00
	5825	10.98	0	10.98	30.00	/	1.08	12.06	36.00

Mode	Channel	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ax HE40	5190	12.54	0	12.54	24.00	24.00	1.08	13.62	23.00
	5230	12.48	0	12.48	24.00	24.00	1.08	13.56	23.00
	5270	12.43	0	12.43	24.00	24.00	1.08	13.51	30.00
	5310	12.90	0	12.90	24.00	24.00	1.08	13.98	30.00
	5510	10.46	0	10.46	24.00	24.00	1.08	11.54	30.00
	5550	11.54	0	11.54	24.00	24.00	1.08	12.62	30.00
	5670	11.52	0	11.52	24.00	24.00	1.08	12.60	30.00
	5710_UNII-2C	10.01	0	10.01	24.00	24.00	1.08	11.09	30.00
	5710_UNII-3	-0.70	0	-0.70	30.00	/	1.08	0.38	36.00
	5755	10.67	0	10.67	30.00	/	1.08	11.75	36.00
	5795	10.97	0	10.97	30.00	/	1.08	12.05	36.00

TEST GRAPHS

