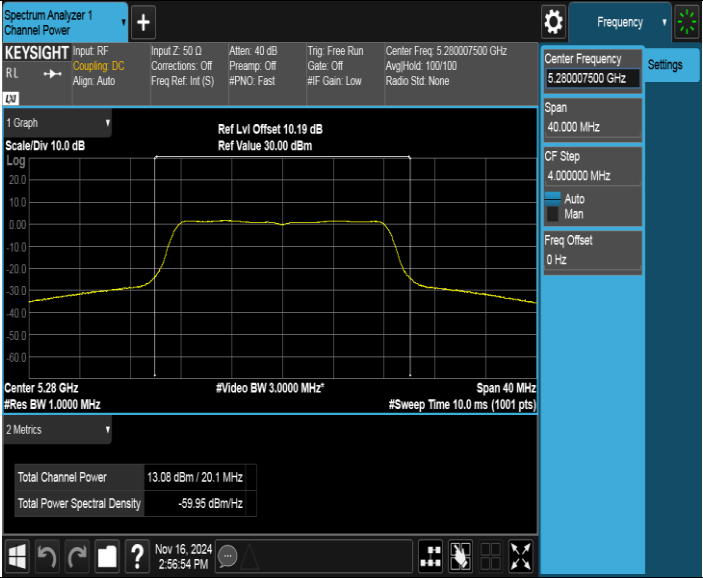
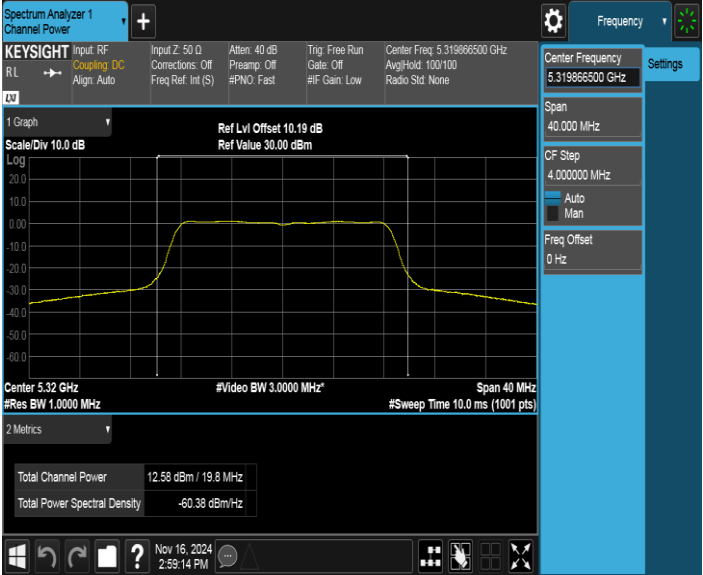
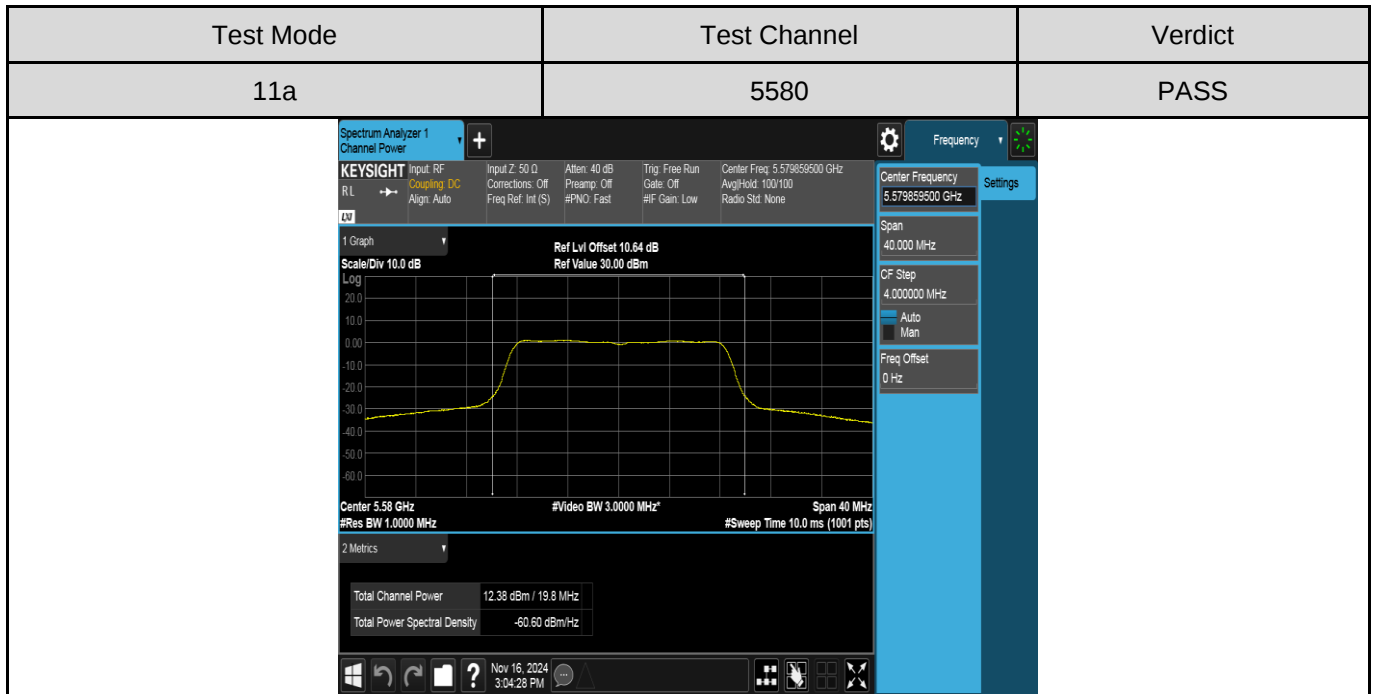
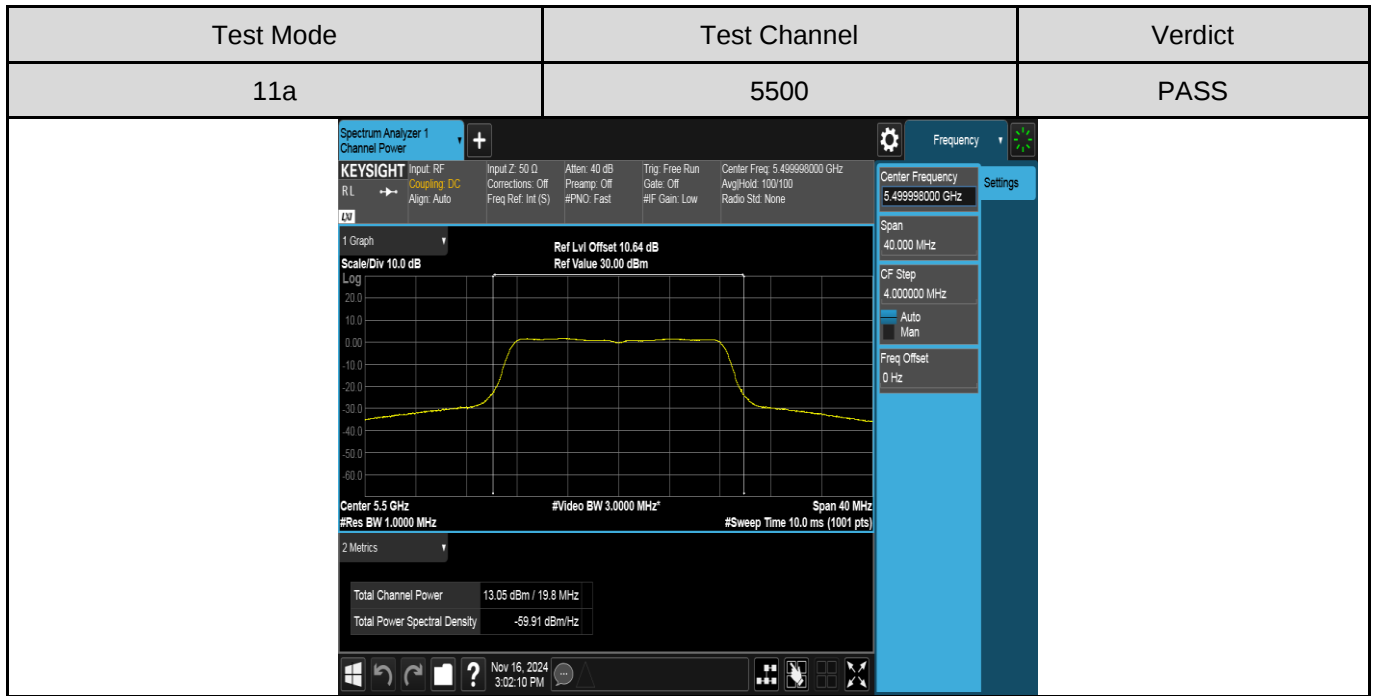
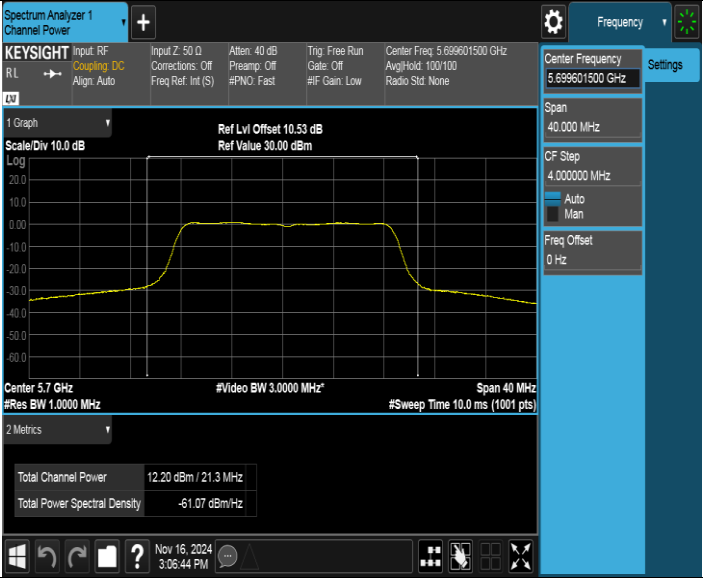
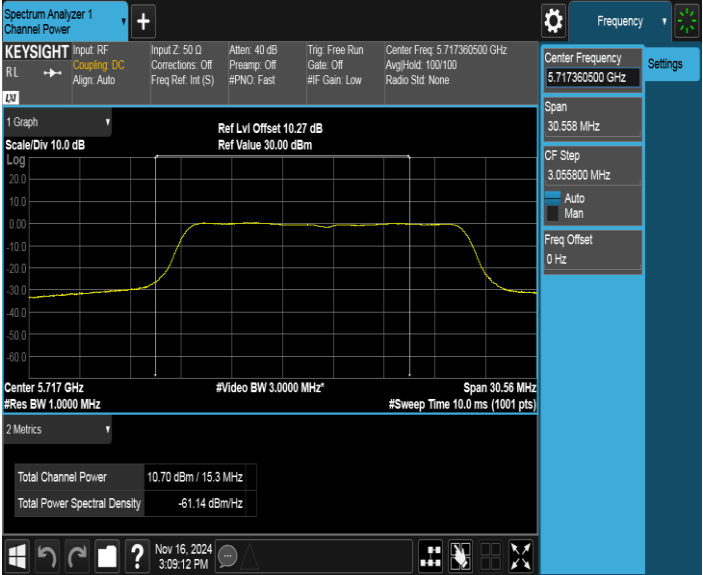


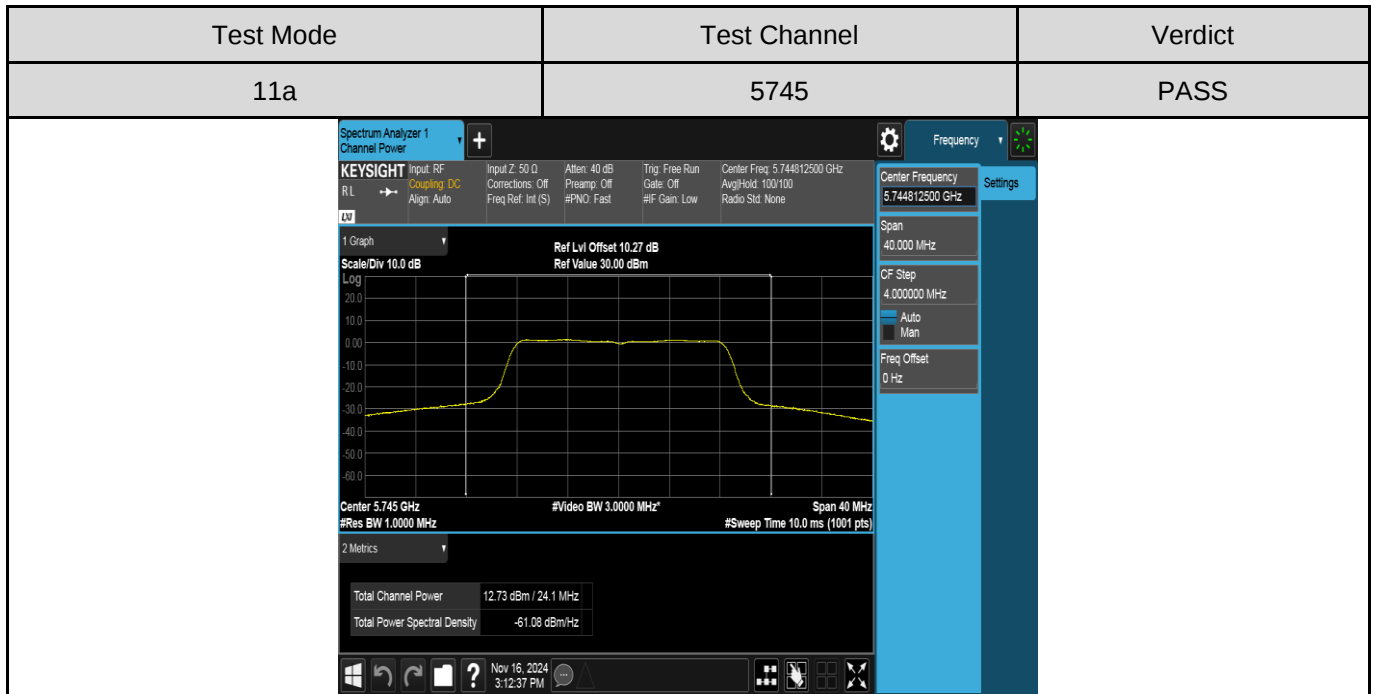
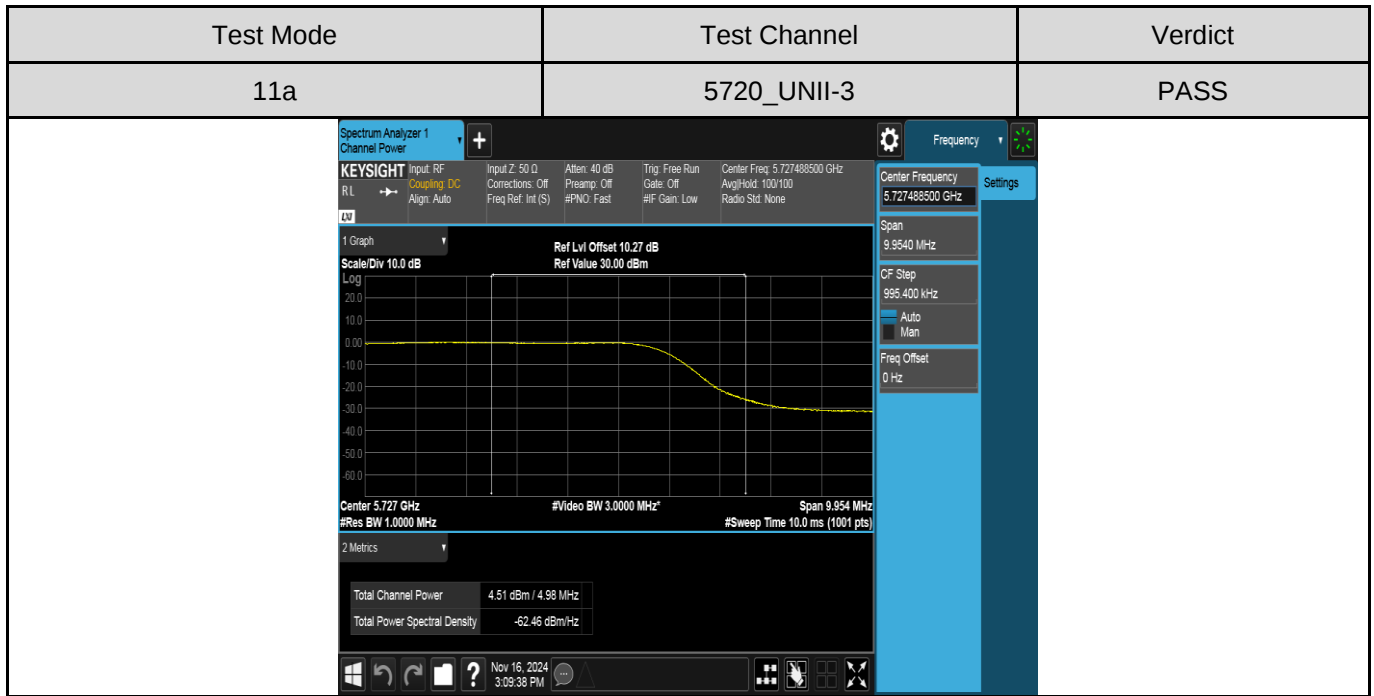
Test Mode	Test Channel	Verdict
11a	5280	PASS
		

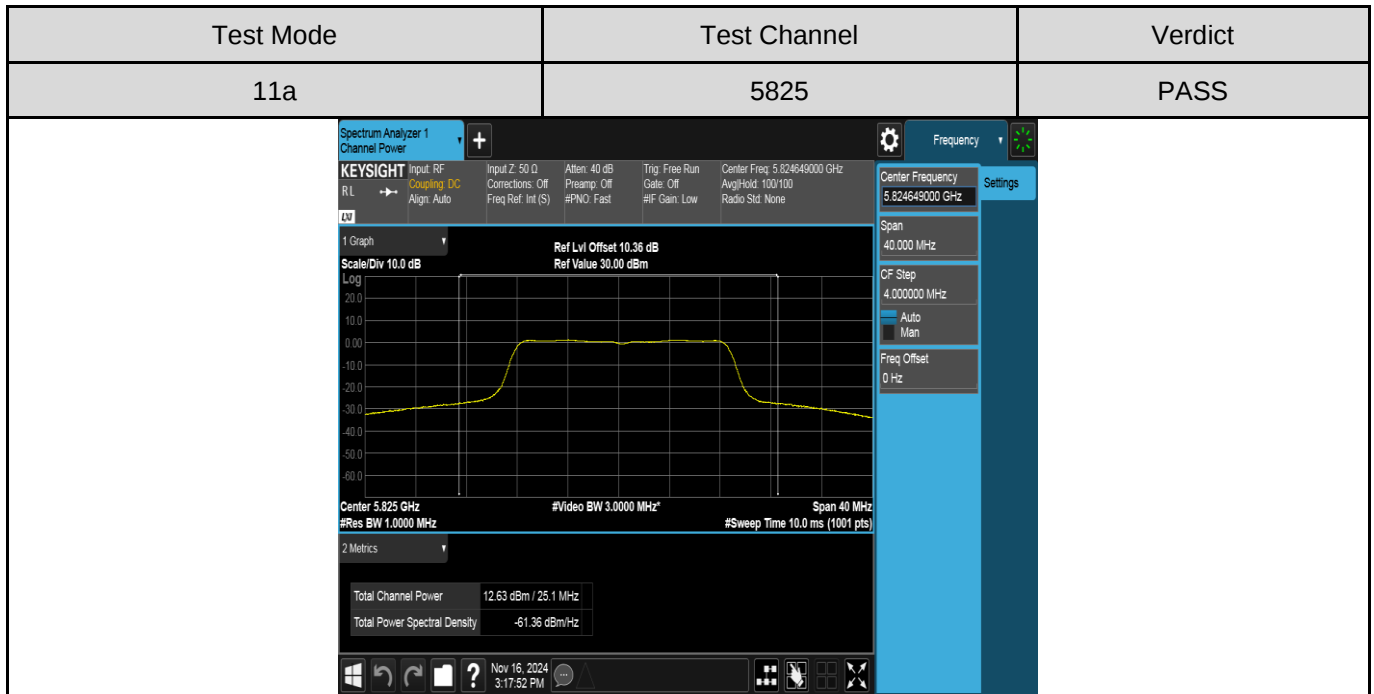
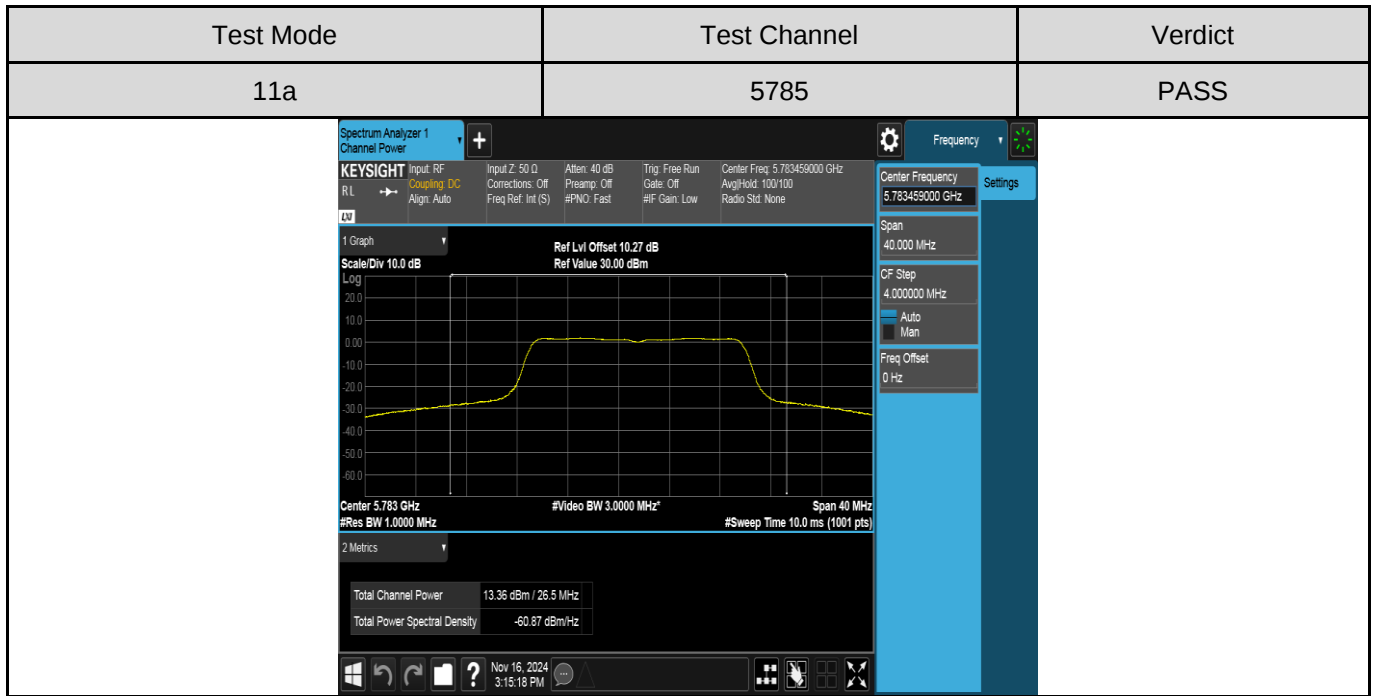
Test Mode	Test Channel	Verdict
11a	5320	PASS
		

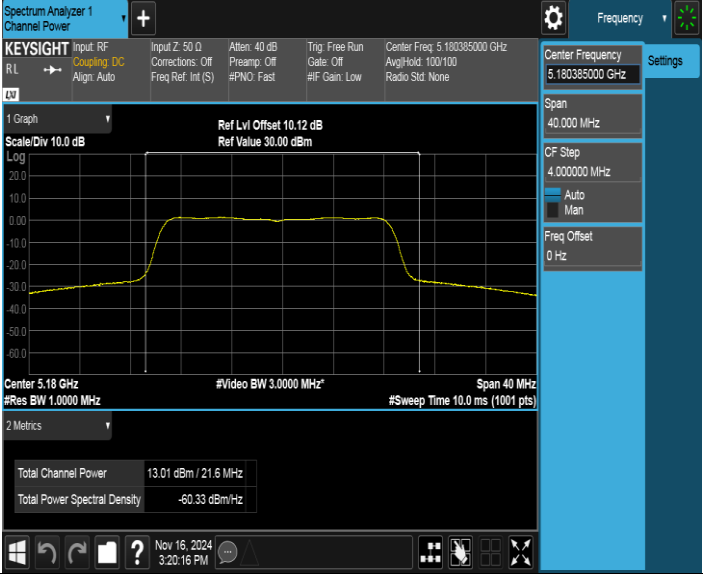


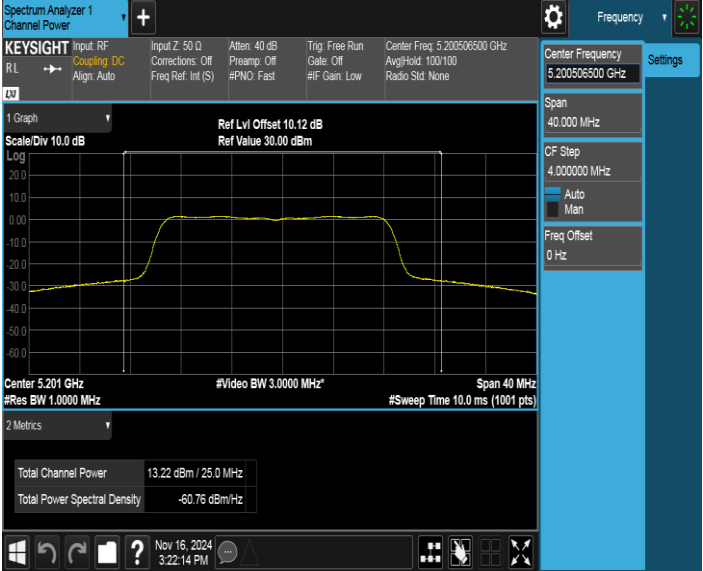
Test Mode	Test Channel	Verdict
11a	5700	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum centered at 5.7 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 40 MHz. The signal is a rectangular pulse. The 'Total Channel Power' is 12.20 dBm / 21.3 MHz, and the 'Total Power Spectral Density' is -61.07 dBm/Hz. The 'Ref Lvl Offset' is 10.53 dB, and the 'Ref Value' is 30.00 dBm. The 'Center Frequency' is 5.69601500 GHz, and the 'Span' is 40.000 MHz. The 'CF Step' is 4.000000 MHz, and the 'Freq Offset' is 0 Hz. The 'Sweep Time' is 10.0 ms (1001 pts).		

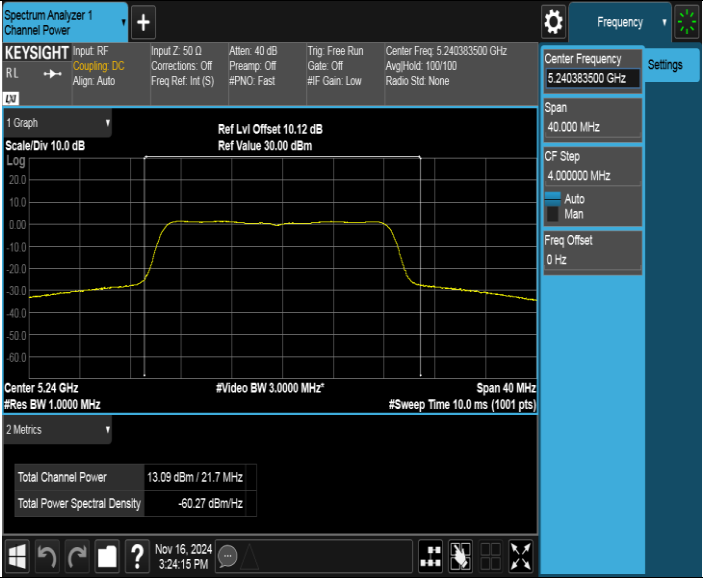
Test Mode	Test Channel	Verdict
11a	5720_UNII-2C	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum centered at 5.717 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 30.56 MHz. The signal is a rectangular pulse. The 'Total Channel Power' is 10.70 dBm / 15.3 MHz, and the 'Total Power Spectral Density' is -61.14 dBm/Hz. The 'Ref Lvl Offset' is 10.27 dB, and the 'Ref Value' is 30.00 dBm. The 'Center Frequency' is 5.717360500 GHz, and the 'Span' is 30.558 MHz. The 'CF Step' is 3.055800 MHz, and the 'Freq Offset' is 0 Hz. The 'Sweep Time' is 10.0 ms (1001 pts).		

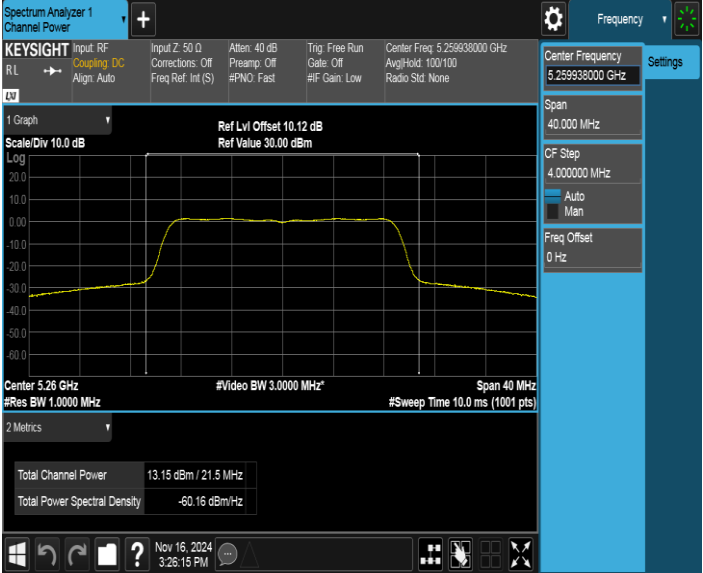


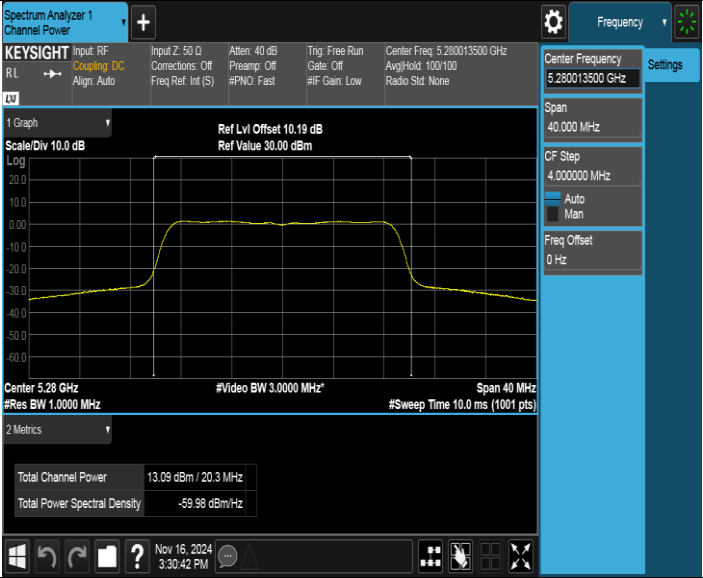


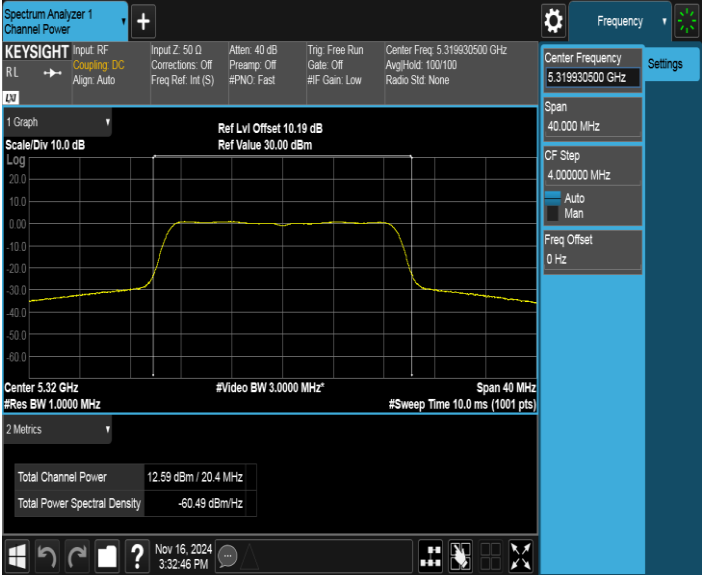
Test Mode	Test Channel	Verdict
11ac VHT20	5180	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal centered at 5.18 GHz with a span of 40 MHz. The signal is a rectangular pulse. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.18 GHz' and ranges from 5.175 GHz to 5.185 GHz. The plot shows a signal level of approximately 13 dBm. The right-hand side of the screen shows the 'Settings' panel with various parameters like Center Frequency, Span, CF Step, and Freq Offset. The bottom status bar shows the date and time as Nov 16, 2024, 3:20:16 PM.		

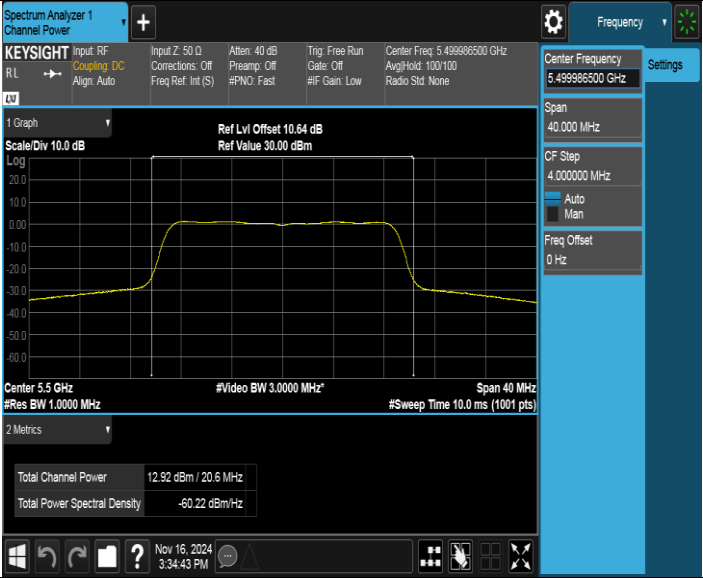
Test Mode	Test Channel	Verdict
11ac VHT20	5200	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal centered at 5.201 GHz with a span of 40 MHz. The signal is a rectangular pulse. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.201 GHz' and ranges from 5.196 GHz to 5.206 GHz. The plot shows a signal level of approximately 13 dBm. The right-hand side of the screen shows the 'Settings' panel with various parameters like Center Frequency, Span, CF Step, and Freq Offset. The bottom status bar shows the date and time as Nov 16, 2024, 3:22:14 PM.		

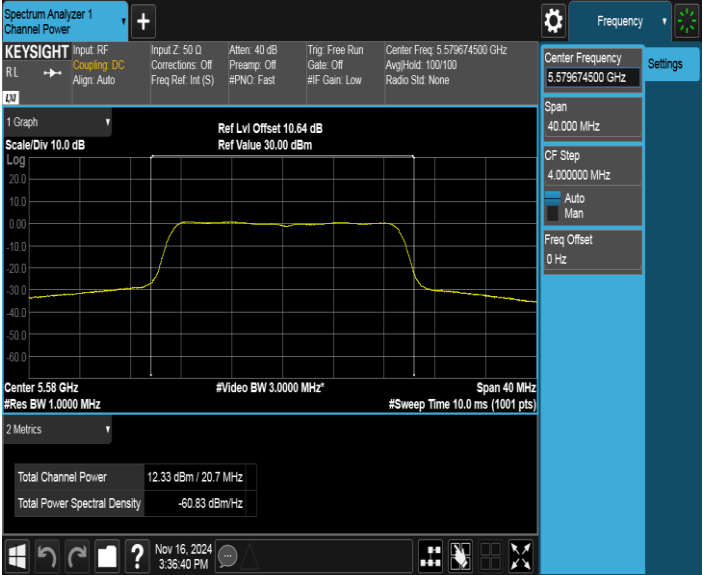
Test Mode	Test Channel	Verdict
11ac VHT20	5240	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.24 GHz with a total channel power of 13.09 dBm / 21.7 MHz. The plot is set to a log scale with a span of 40 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.240383500 GHz. The plot shows a signal with a peak at 5.24 GHz and a bandwidth of approximately 20 MHz. The total power spectral density is -60.27 dBm/Hz.		

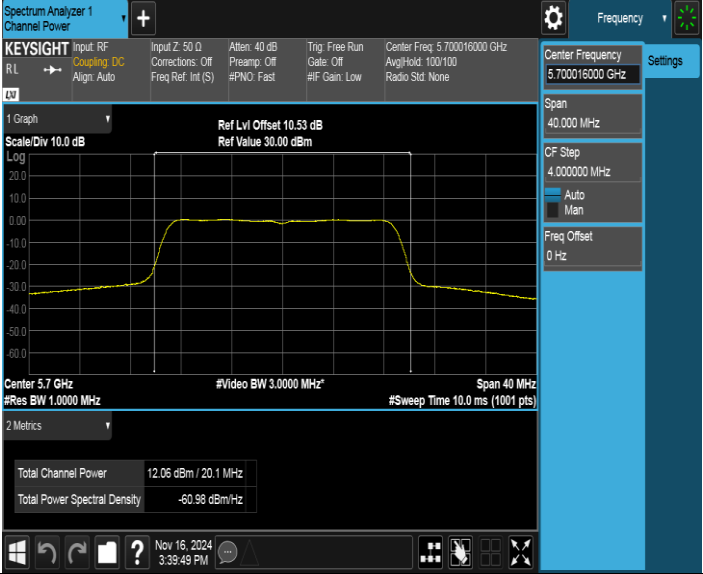
Test Mode	Test Channel	Verdict
11ac VHT20	5260	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.26 GHz with a total channel power of 13.15 dBm / 21.5 MHz. The plot is set to a log scale with a span of 40 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.259380000 GHz. The plot shows a signal with a peak at 5.26 GHz and a bandwidth of approximately 20 MHz. The total power spectral density is -60.16 dBm/Hz.		

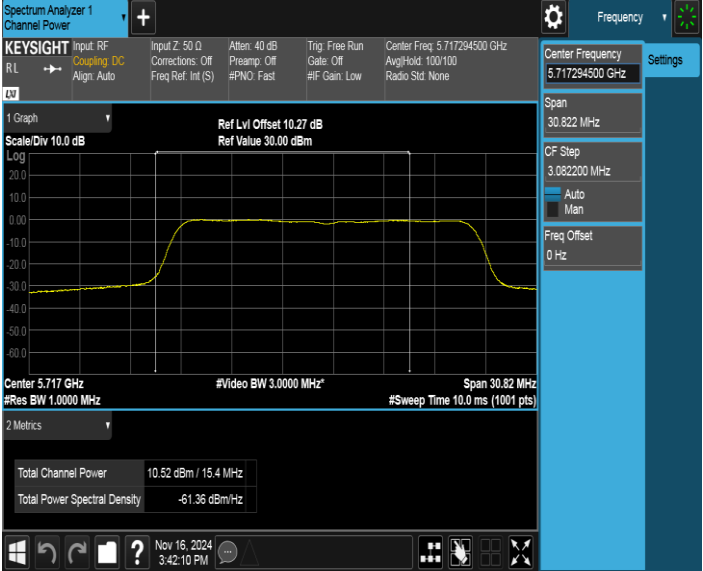
Test Mode	Test Channel	Verdict
11ac VHT20	5280	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.28 GHz with a total channel power of 13.09 dBm / 20.3 MHz. The plot is set to a log scale with a span of 40 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.280013500 GHz. The plot shows a signal with a peak at 5.28 GHz and a bandwidth of approximately 20 MHz. The total power spectral density is -59.98 dBm/MHz. The plot is titled 'Spectrum Analyzer 1 Channel Power' and 'KEYSIGHT'.		

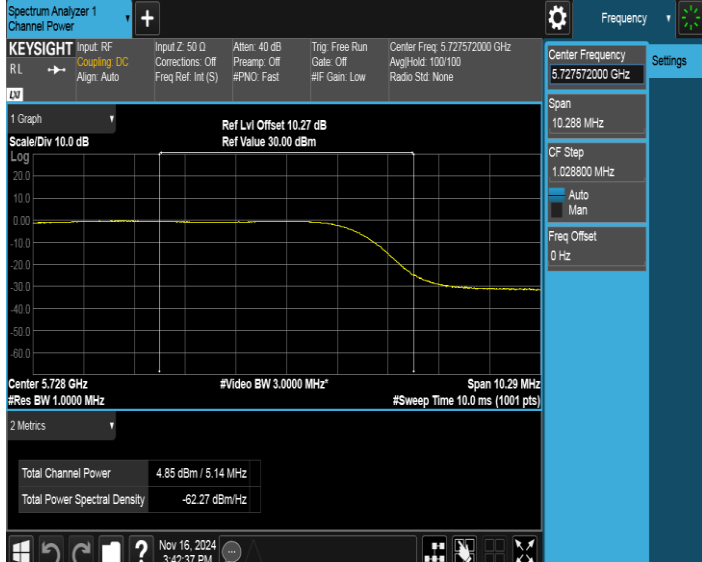
Test Mode	Test Channel	Verdict
11ac VHT20	5320	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.32 GHz with a total channel power of 12.59 dBm / 20.4 MHz. The plot is set to a log scale with a span of 40 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.319930500 GHz. The plot shows a signal with a peak at 5.32 GHz and a bandwidth of approximately 20 MHz. The total power spectral density is -60.49 dBm/MHz. The plot is titled 'Spectrum Analyzer 1 Channel Power' and 'KEYSIGHT'.		

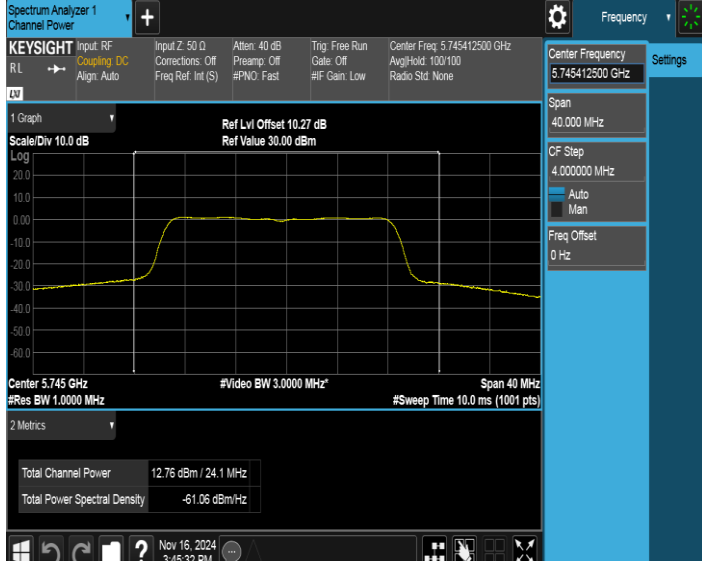
Test Mode	Test Channel	Verdict
11ac VHT20	5500	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal centered at 5.49986500 GHz with a span of 40.000 MHz. The signal is a rectangular pulse. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.5 GHz' and ranges from 5.49986500 GHz to 5.50013500 GHz. The plot shows a signal level of approximately 0 dBm. The right-hand side of the screen shows the 'Settings' panel with various parameters like Span, CF Step, and Freq Offset. The bottom status bar shows the date and time as Nov 16, 2024, 3:34:43 PM.		

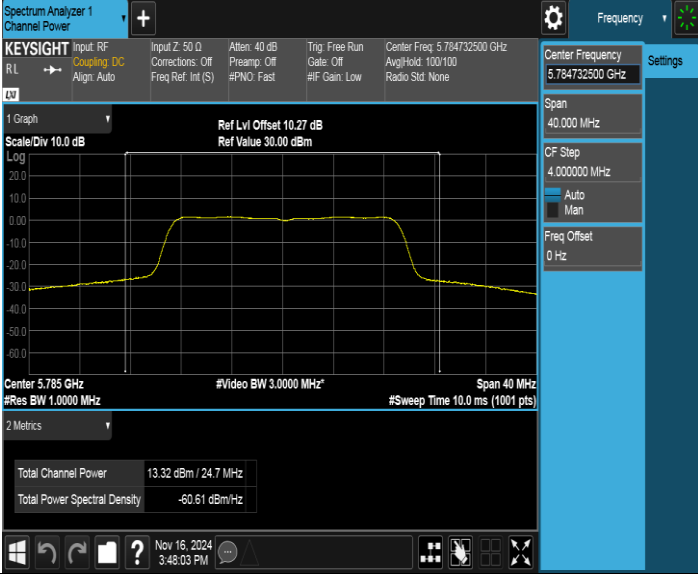
Test Mode	Test Channel	Verdict
11ac VHT20	5580	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal centered at 5.579674500 GHz with a span of 40.000 MHz. The signal is a rectangular pulse. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.58 GHz' and ranges from 5.579674500 GHz to 5.580325500 GHz. The plot shows a signal level of approximately 0 dBm. The right-hand side of the screen shows the 'Settings' panel with various parameters like Span, CF Step, and Freq Offset. The bottom status bar shows the date and time as Nov 16, 2024, 3:36:40 PM.		

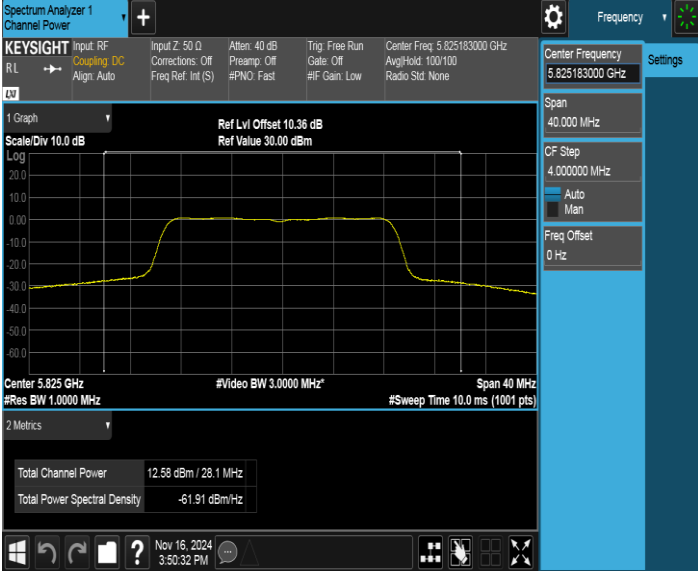
Test Mode	Test Channel	Verdict
11ac VHT20	5700	PASS
		

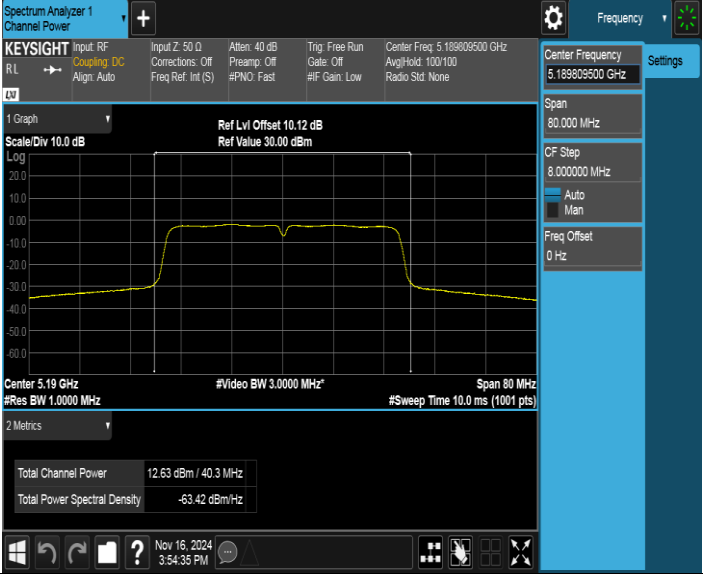
Test Mode	Test Channel	Verdict
11ac VHT20	5720_UNII-2C	PASS
		

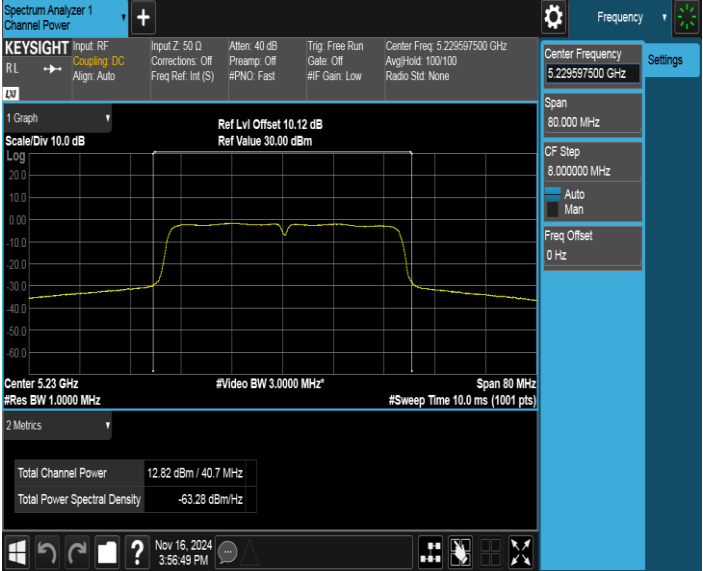
Test Mode	Test Channel	Verdict
11ac VHT20	5720_UNII-3	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.728 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 10.29 MHz. The signal is a narrowband peak. The settings panel on the right shows the center frequency at 5.727572000 GHz, a span of 10.288 MHz, and a resolution bandwidth of 3.0000 MHz. The metrics at the bottom indicate a total channel power of -4.85 dBm / 5.14 MHz and a total power spectral density of -62.27 dBm/Hz.		

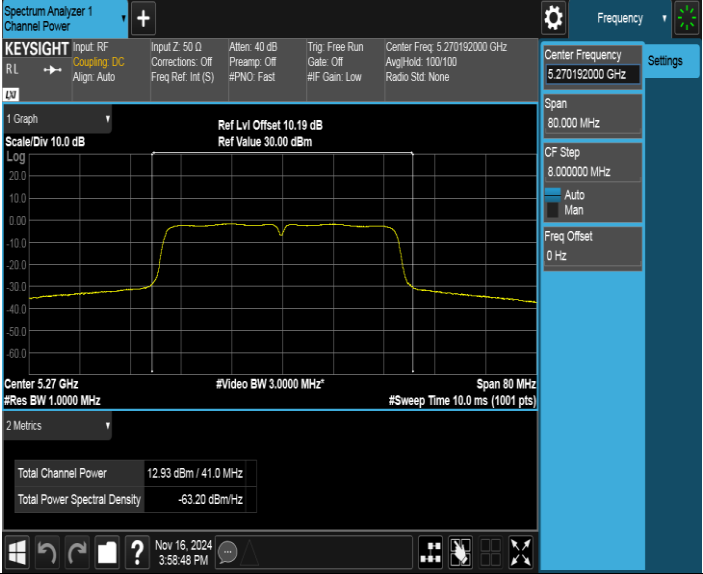
Test Mode	Test Channel	Verdict
11ac VHT20	5745	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.745 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 40 MHz. The signal is a narrowband peak. The settings panel on the right shows the center frequency at 5.745412500 GHz, a span of 40.000 MHz, and a resolution bandwidth of 3.0000 MHz. The metrics at the bottom indicate a total channel power of 12.76 dBm / 24.1 MHz and a total power spectral density of -61.06 dBm/Hz.		

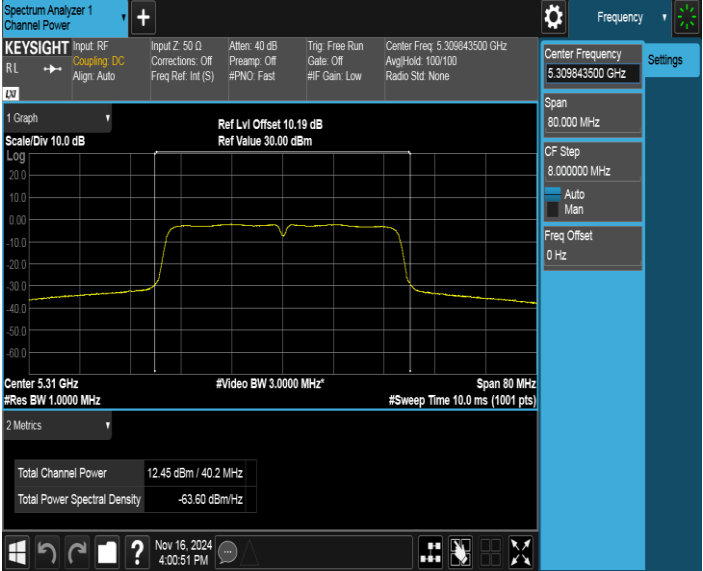
Test Mode	Test Channel	Verdict
11ac VHT20	5785	PASS
		

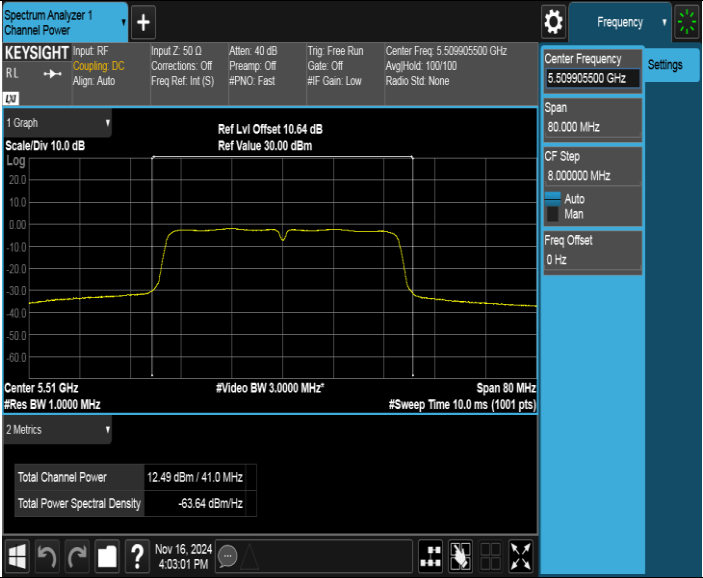
Test Mode	Test Channel	Verdict
11ac VHT20	5825	PASS
		

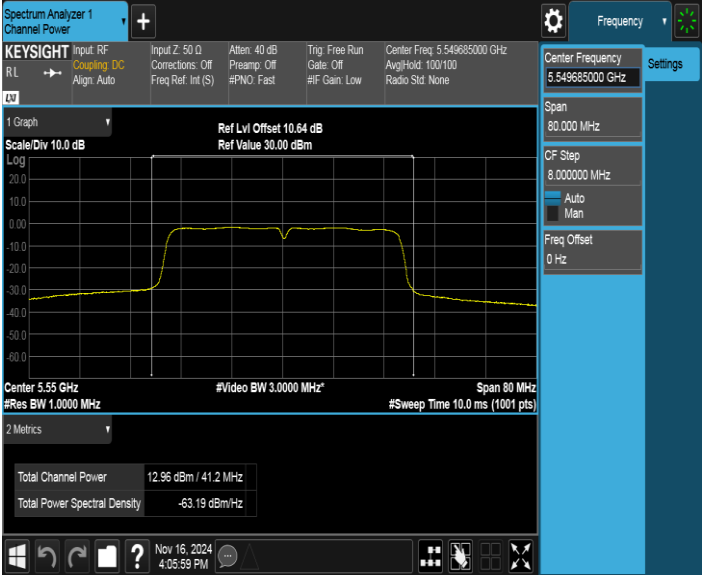
Test Mode	Test Channel	Verdict
11ac VHT40	5190	PASS
		

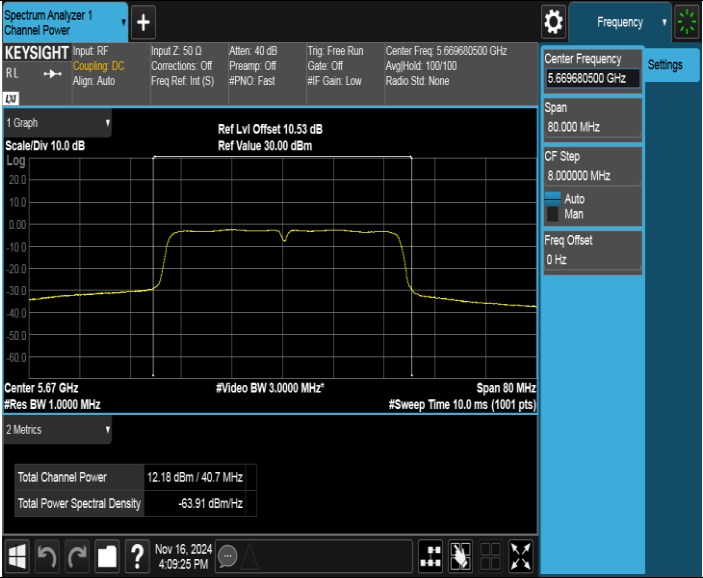
Test Mode	Test Channel	Verdict
11ac VHT40	5230	PASS
		

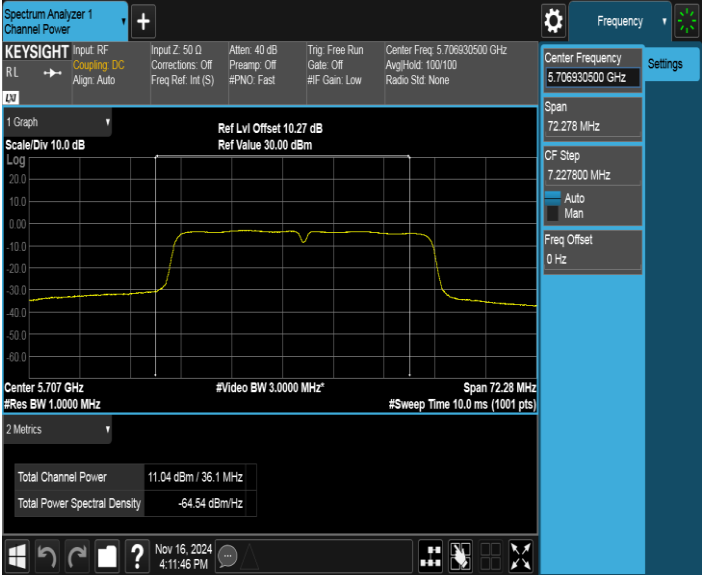
Test Mode	Test Channel	Verdict
11ac VHT40	5270	PASS
 Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF Input Z: 50 Ω Attenu: 40 dB Trig: Free Run Center Freq: 5.270192000 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None Center Frequency: 5.270192000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Auto Man Freq Offset: 0 Hz 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.19 dB Ref Value: 30.00 dBm Center: 5.27 GHz #Video BW: 3.0000 MHz* Span: 80 MHz #Res BW: 1.0000 MHz #Sweep Time: 10.0 ms (1001 pts) 2 Metrics Total Channel Power: 12.93 dBm / 41.0 MHz Total Power Spectral Density: -63.20 dBm/MHz Nov 16, 2024 3:58:48 PM		

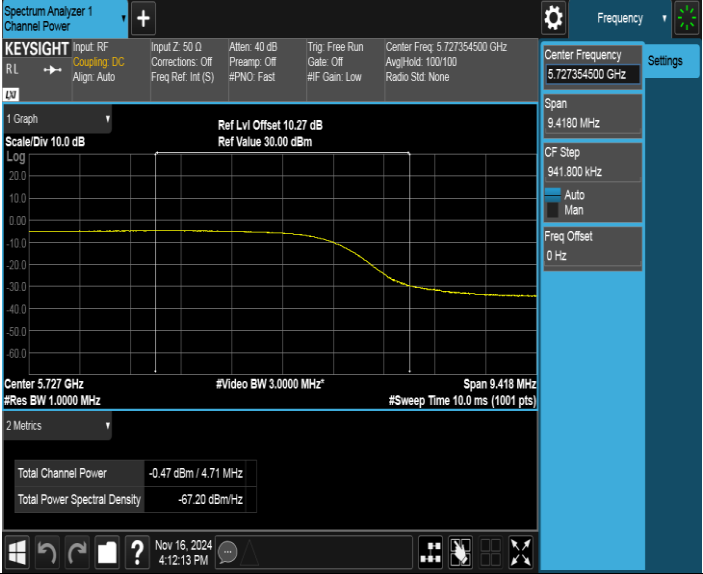
Test Mode	Test Channel	Verdict
11ac VHT40	5310	PASS
 Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF Input Z: 50 Ω Attenu: 40 dB Trig: Free Run Center Freq: 5.309843500 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None Center Frequency: 5.309843500 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Auto Man Freq Offset: 0 Hz 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.19 dB Ref Value: 30.00 dBm Center: 5.31 GHz #Video BW: 3.0000 MHz* Span: 80 MHz #Res BW: 1.0000 MHz #Sweep Time: 10.0 ms (1001 pts) 2 Metrics Total Channel Power: 12.45 dBm / 40.2 MHz Total Power Spectral Density: -63.60 dBm/MHz Nov 16, 2024 4:00:51 PM		

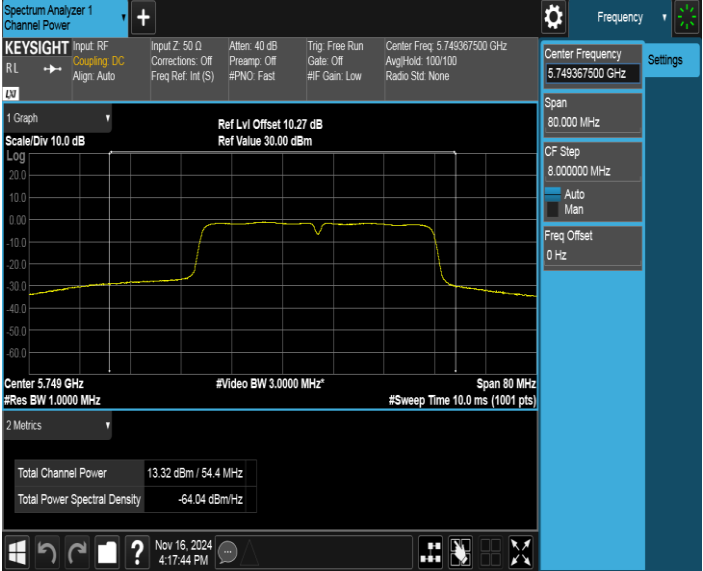
Test Mode	Test Channel	Verdict
11ac VHT40	5510	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.51 GHz with a total channel power of 12.49 dBm / 41.0 MHz. The plot is set to a log scale with a span of 80 MHz and a resolution bandwidth of 1.0000 MHz. The signal is centered at 5.51 GHz, and the total power spectral density is -63.64 dBm/Hz. The interface includes various settings for input, coupling, and frequency, as well as a 'Metrics' section at the bottom.		

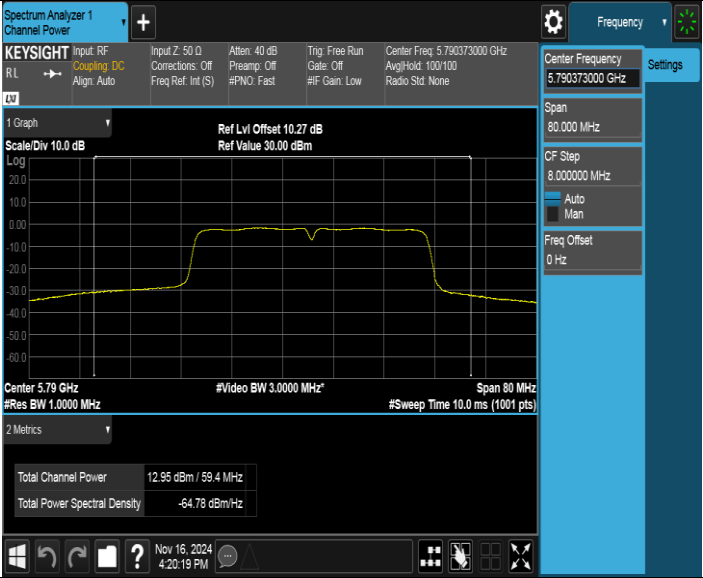
Test Mode	Test Channel	Verdict
11ac VHT40	5550	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.55 GHz with a total channel power of 12.96 dBm / 41.2 MHz. The plot is set to a log scale with a span of 80 MHz and a resolution bandwidth of 1.0000 MHz. The signal is centered at 5.55 GHz, and the total power spectral density is -63.19 dBm/Hz. The interface includes various settings for input, coupling, and frequency, as well as a 'Metrics' section at the bottom.		

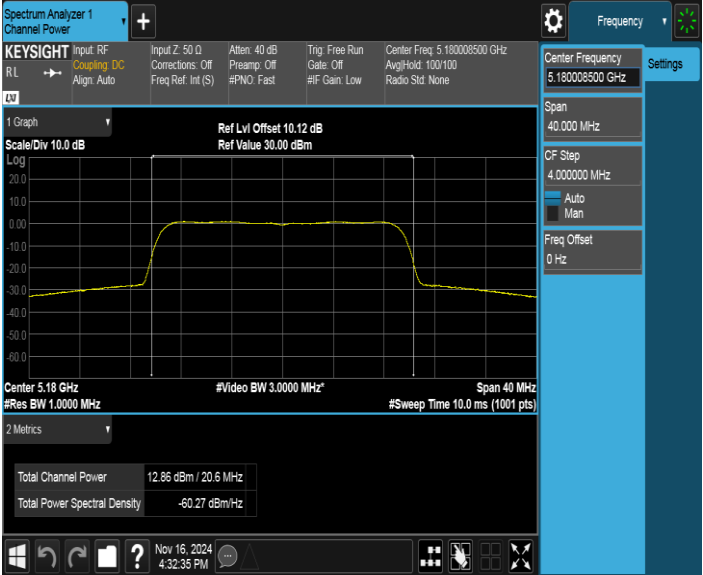
Test Mode	Test Channel	Verdict
11ac VHT40	5670	PASS
		

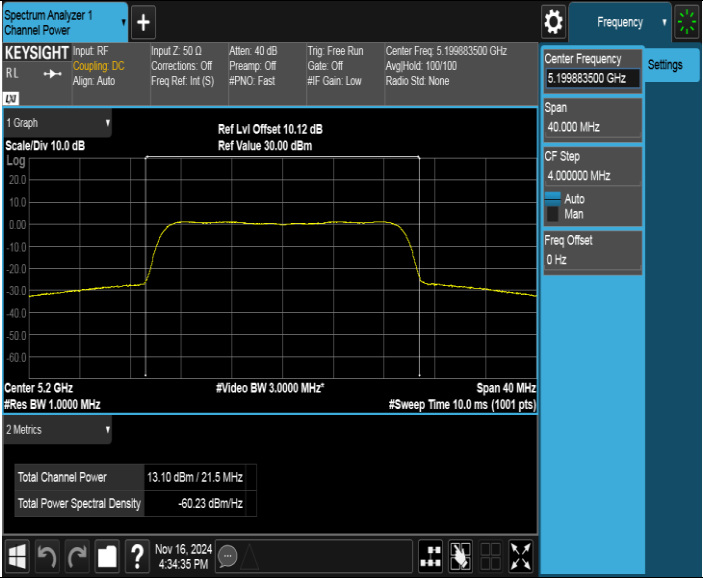
Test Mode	Test Channel	Verdict
11ac VHT40	5710_UNII-2C	PASS
		

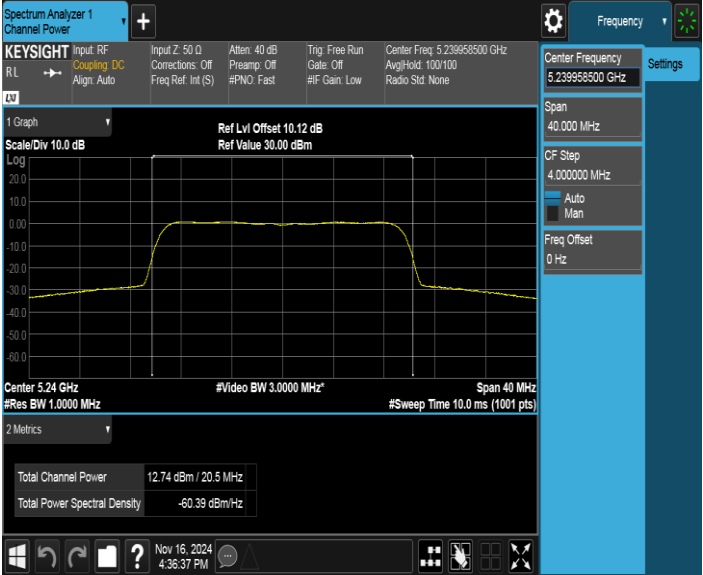
Test Mode	Test Channel	Verdict
11ac VHT40	5710_UNII-3	PASS
 The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.727 GHz with a total channel power of -0.47 dBm / 4.71 MHz. The signal is a narrowband signal with a slight roll-off at the edges. The settings include a center frequency of 5.727354500 GHz, a span of 9.418 MHz, and a resolution bandwidth of 1.0000 MHz. The video bandwidth is 3.0000 MHz and the sweep time is 10.0 ms (1001 pts).		

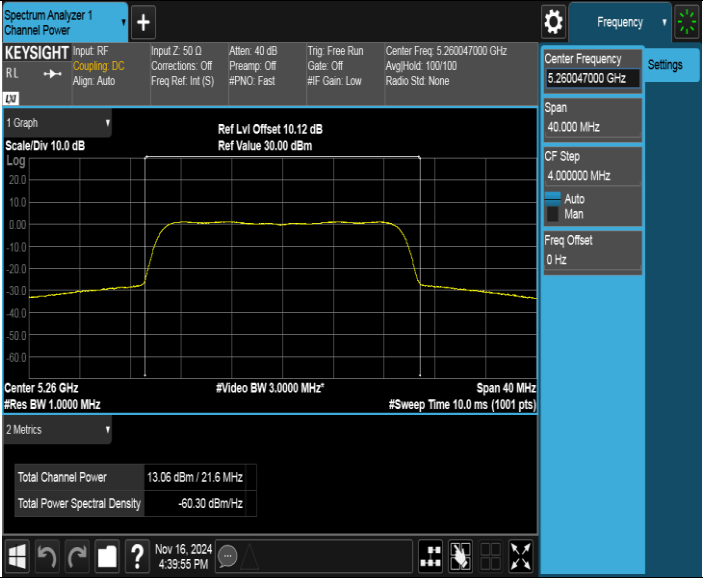
Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS
 The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.749 GHz with a total channel power of 13.32 dBm / 54.4 MHz. The signal is a narrowband signal with a slight roll-off at the edges. The settings include a center frequency of 5.749367500 GHz, a span of 80.000 MHz, and a resolution bandwidth of 1.0000 MHz. The video bandwidth is 3.0000 MHz and the sweep time is 10.0 ms (1001 pts).		

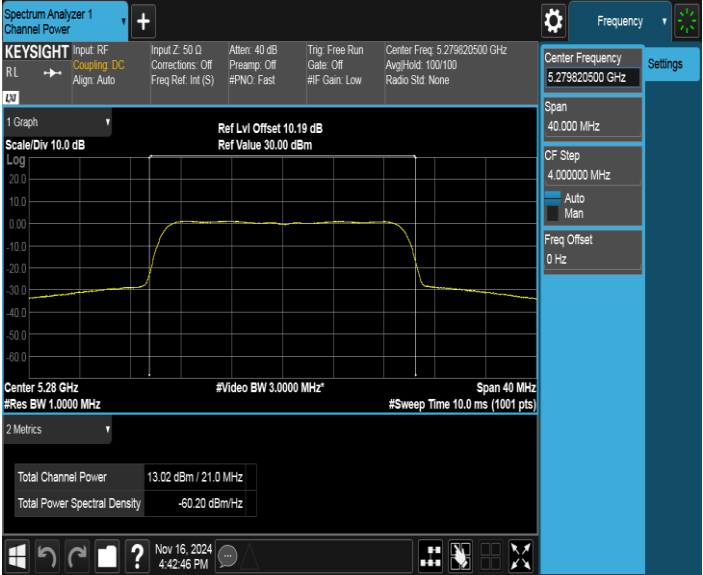
Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.79 GHz with a total channel power of 12.95 dBm / 59.4 MHz. The plot is set to a scale of 10.0 dB and a span of 80 MHz. The center frequency is 5.790373000 GHz. The resolution bandwidth is 1.0000 MHz and the video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms (1001 pts). The plot shows a signal with a peak at 5.79 GHz and a total channel power of 12.95 dBm / 59.4 MHz. The plot is set to a scale of 10.0 dB and a span of 80 MHz. The center frequency is 5.790373000 GHz. The resolution bandwidth is 1.0000 MHz and the video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms (1001 pts).		

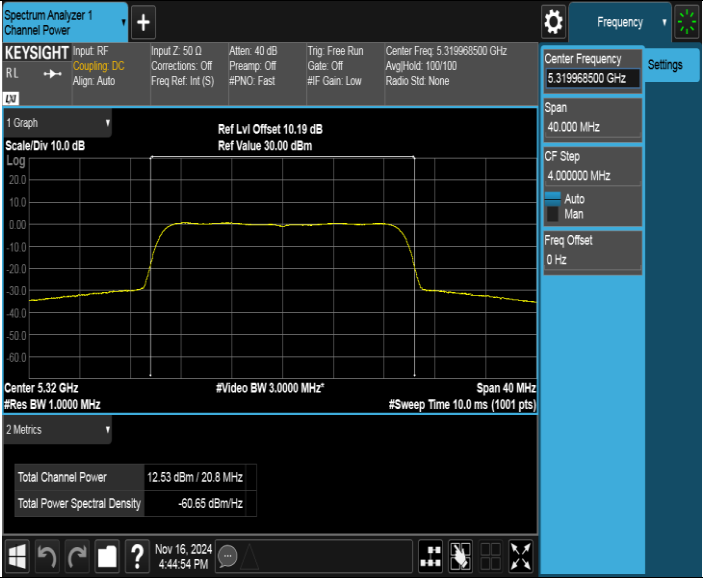
Test Mode	Test Channel	Verdict
11ax HE20	5180	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.18 GHz with a total channel power of 12.86 dBm / 20.6 MHz. The plot is set to a scale of 10.0 dB and a span of 40 MHz. The center frequency is 5.180008500 GHz. The resolution bandwidth is 1.0000 MHz and the video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms (1001 pts). The plot shows a signal with a peak at 5.18 GHz and a total channel power of 12.86 dBm / 20.6 MHz. The plot is set to a scale of 10.0 dB and a span of 40 MHz. The center frequency is 5.180008500 GHz. The resolution bandwidth is 1.0000 MHz and the video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms (1001 pts).		

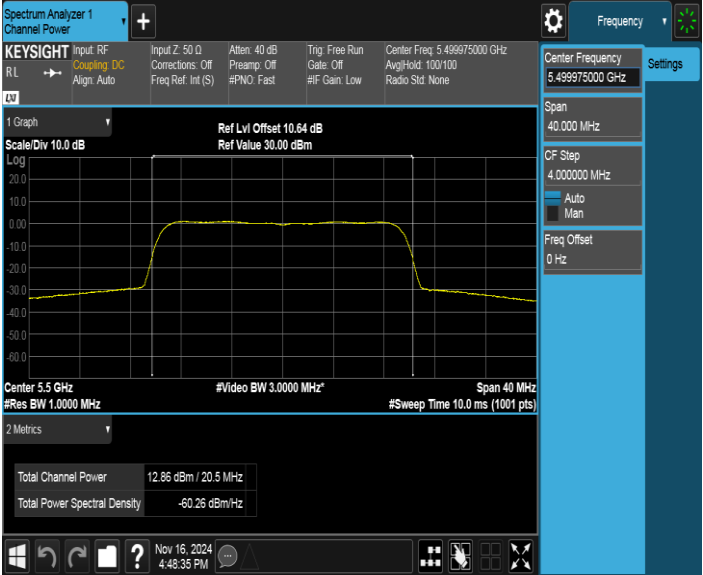
Test Mode	Test Channel	Verdict
11ax HE20	5200	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.2 GHz with a total channel power of 13.10 dBm / 21.5 MHz. The plot is set to a log scale with a span of 40 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.199883500 GHz. The plot shows a signal with a peak at 5.2 GHz and a total channel power of 13.10 dBm / 21.5 MHz. The plot also shows the total power spectral density at -60.23 dBm/Hz.		

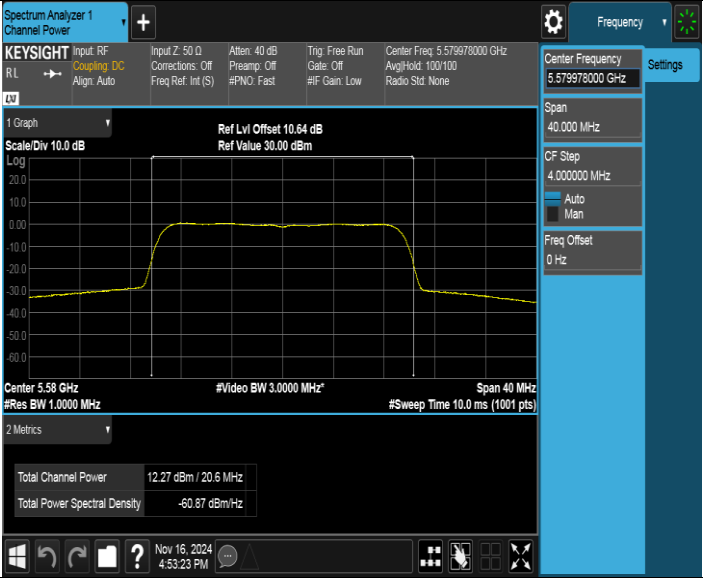
Test Mode	Test Channel	Verdict
11ax HE20	5240	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.24 GHz with a total channel power of 12.74 dBm / 20.5 MHz. The plot is set to a log scale with a span of 40 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.239958500 GHz. The plot shows a signal with a peak at 5.24 GHz and a total channel power of 12.74 dBm / 20.5 MHz. The plot also shows the total power spectral density at -60.38 dBm/Hz.		

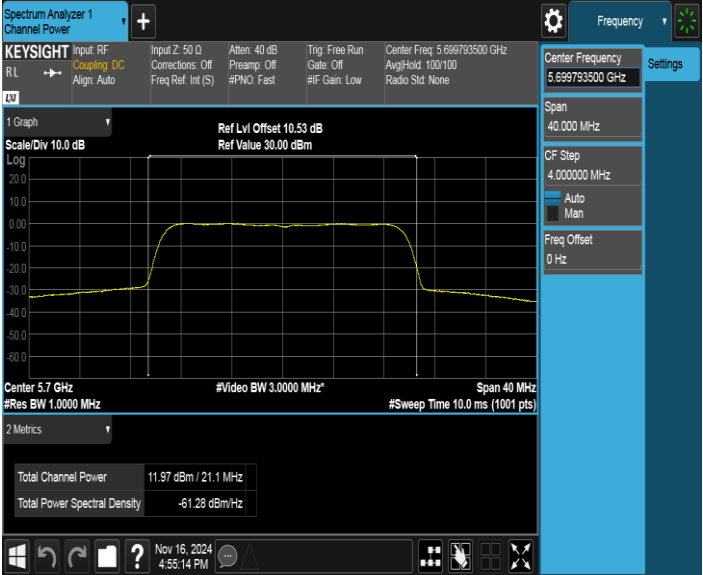
Test Mode	Test Channel	Verdict
11ax HE20	5260	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.26 GHz with a total channel power of 13.06 dBm. The reference level is set to 30.00 dBm. The span is 40 MHz, and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms. The total power spectral density is -60.30 dBm/Hz. The interface includes various settings and a 'Settings' button on the right.		

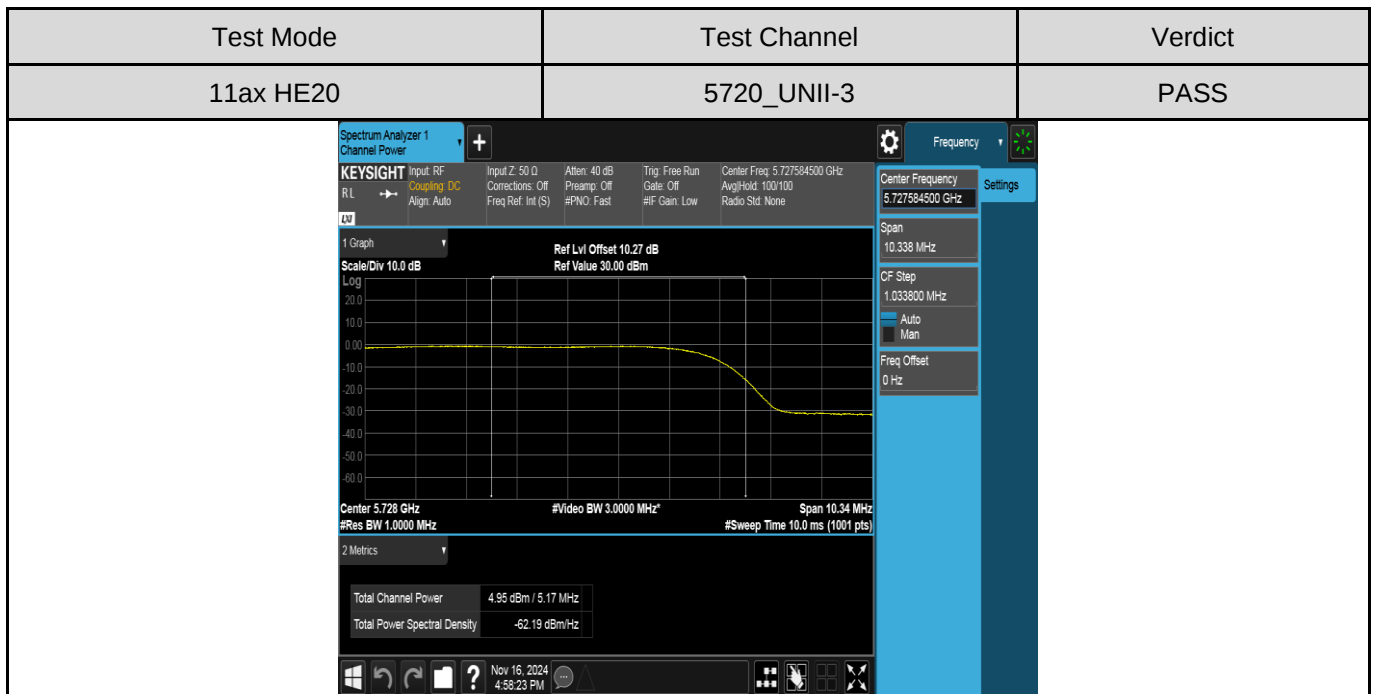
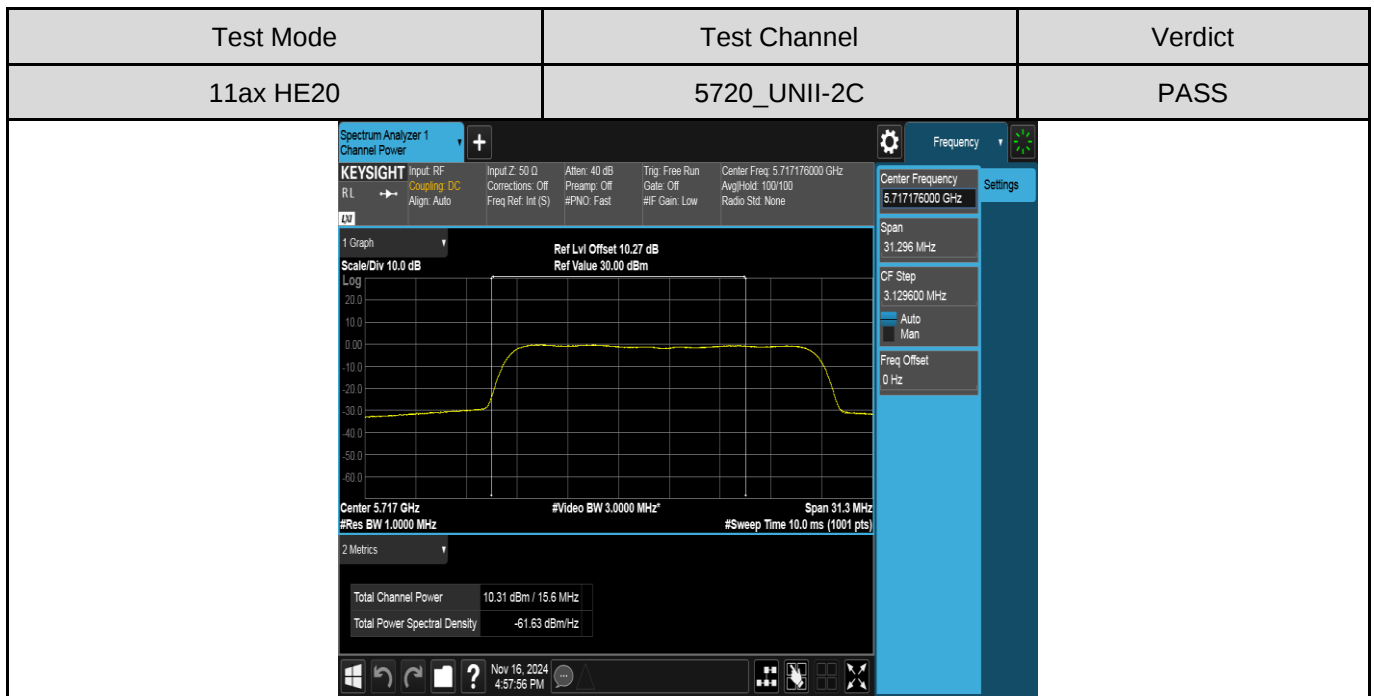
Test Mode	Test Channel	Verdict
11ax HE20	5280	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.28 GHz with a total channel power of 13.02 dBm. The reference level is set to 30.00 dBm. The span is 40 MHz, and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms. The total power spectral density is -60.20 dBm/Hz. The interface includes various settings and a 'Settings' button on the right.		

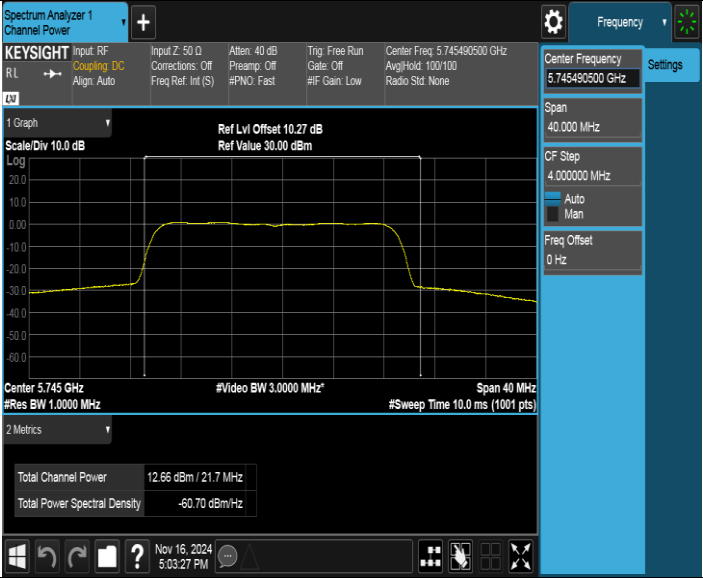
Test Mode	Test Channel	Verdict
11ax HE20	5320	PASS
		

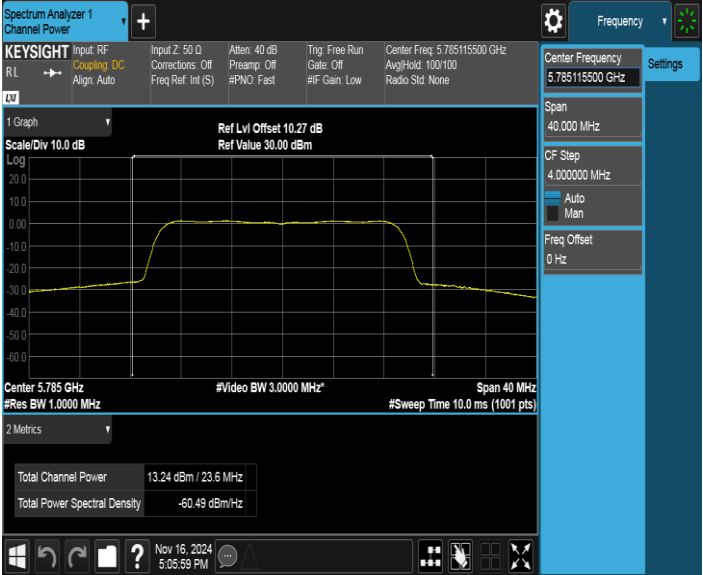
Test Mode	Test Channel	Verdict
11ax HE20	5500	PASS
		

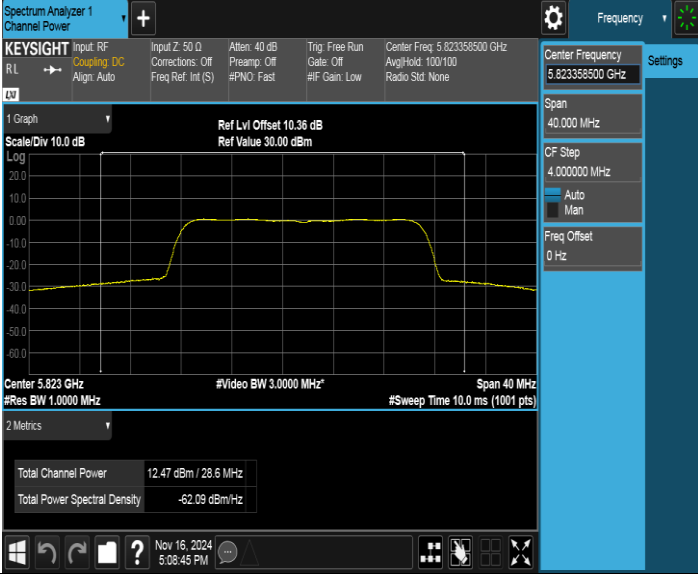
Test Mode	Test Channel	Verdict
11ax HE20	5580	PASS
 Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF Input Z: 50 Ω Attenu: 40 dB Trig: Free Run Center Freq: 5.579978000 GHz Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None Center Frequency: 5.579978000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto Man Freq Offset: 0 Hz 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.64 dB Ref Value: 30.00 dBm Center: 5.58 GHz #Video BW: 3.0000 MHz* Span: 40 MHz #Res BW: 1.0000 MHz #Sweep Time: 10.0 ms (1001 pts) 2 Metrics Total Channel Power: 12.27 dBm / 20.6 MHz Total Power Spectral Density: -60.87 dBm/Hz Nov 16, 2024 4:53:23 PM		

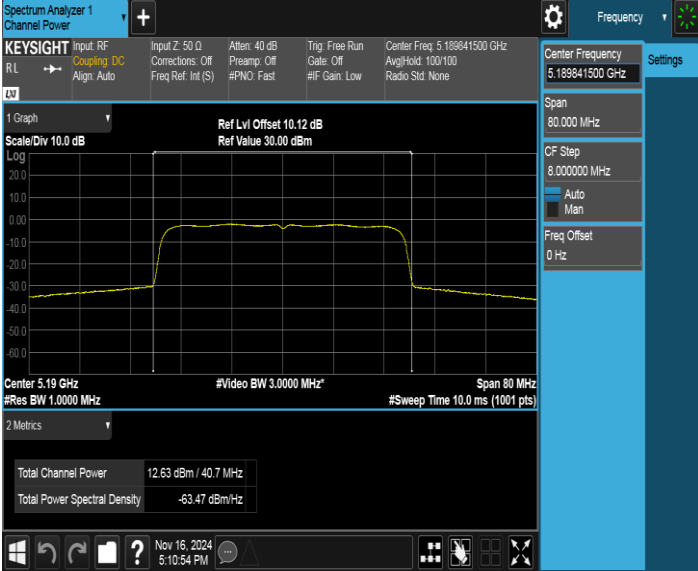
Test Mode	Test Channel	Verdict
11ax HE20	5700	PASS
 Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF Input Z: 50 Ω Attenu: 40 dB Trig: Free Run Center Freq: 5.699793500 GHz Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None Center Frequency: 5.699793500 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto Man Freq Offset: 0 Hz 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.53 dB Ref Value: 30.00 dBm Center: 5.7 GHz #Video BW: 3.0000 MHz* Span: 40 MHz #Res BW: 1.0000 MHz #Sweep Time: 10.0 ms (1001 pts) 2 Metrics Total Channel Power: 11.97 dBm / 21.1 MHz Total Power Spectral Density: -61.28 dBm/Hz Nov 16, 2024 4:55:14 PM		

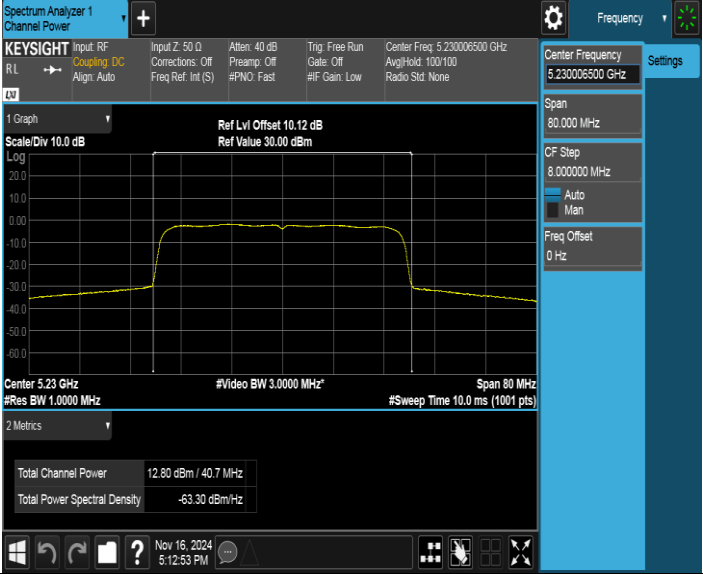


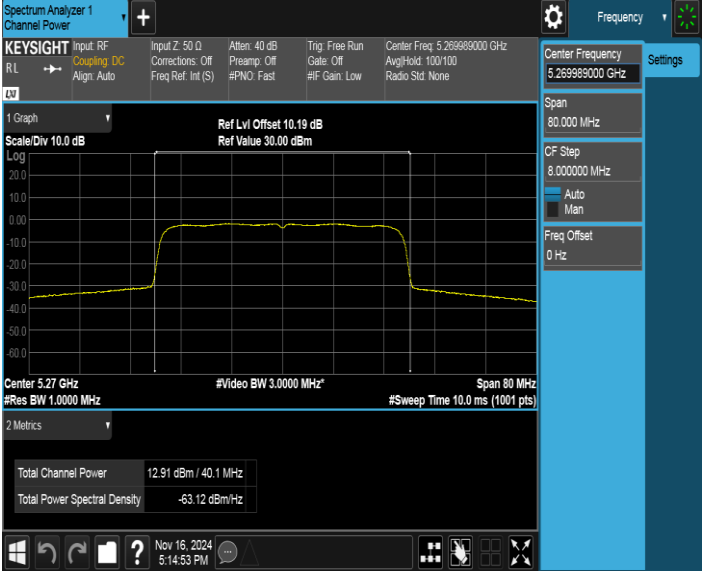
Test Mode	Test Channel	Verdict
11ax HE20	5745	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.745 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 40 MHz. The signal is centered at 5.745 GHz with a resolution bandwidth of 1.0000 MHz and a video bandwidth of 3.0000 MHz. The total channel power is measured as 12.66 dBm / 21.7 MHz, and the total power spectral density is -60.70 dBm/Hz. The reference level is set to 30.00 dBm, and the reference level offset is 10.27 dB. The settings panel on the right shows the center frequency at 5.745490500 GHz, span at 40.000 MHz, and CF step at 4.000000 MHz.		

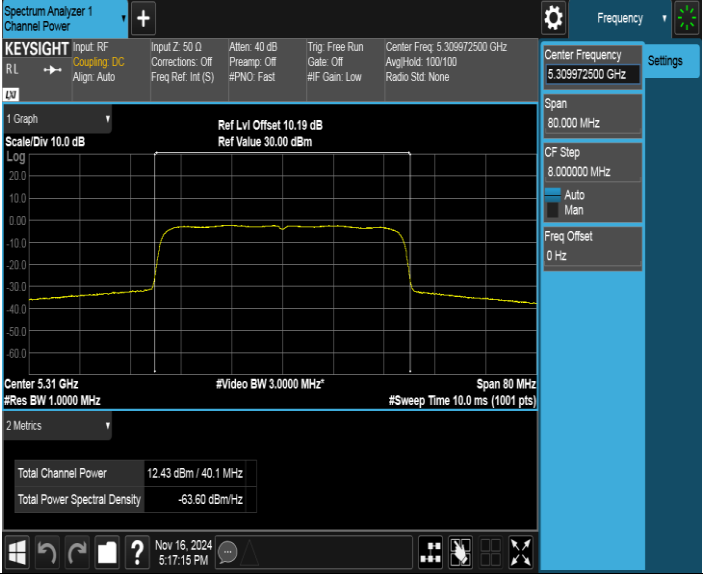
Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.785 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 40 MHz. The signal is centered at 5.785 GHz with a resolution bandwidth of 1.0000 MHz and a video bandwidth of 3.0000 MHz. The total channel power is measured as 13.24 dBm / 23.6 MHz, and the total power spectral density is -60.48 dBm/Hz. The reference level is set to 30.00 dBm, and the reference level offset is 10.27 dB. The settings panel on the right shows the center frequency at 5.785115500 GHz, span at 40.000 MHz, and CF step at 4.000000 MHz.		

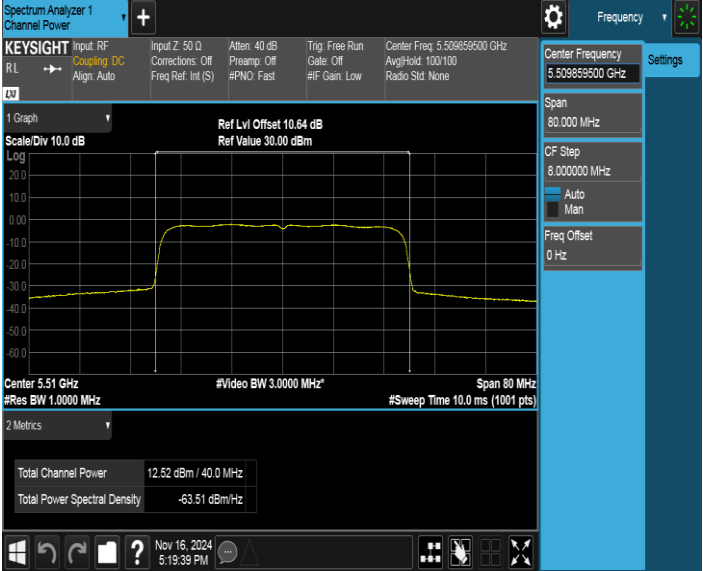
Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS
 Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF Input Z: 50 Ω Attenu: 40 dB Trig: Free Run Center Freq: 5.82358500 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None Center Frequency: 5.82358500 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Auto Man Freq Offset: 0 Hz 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.36 dB Ref Value: 30.00 dBm Center: 5.823 GHz #Res BW: 1.0000 MHz #Video BW: 3.0000 MHz Span: 40 MHz #Sweep Time: 10.0 ms (1001 pts) 2 Metrics Total Channel Power: 12.47 dBm / 28.6 MHz Total Power Spectral Density: -62.09 dBm/Hz Nov 16, 2024 5:08:45 PM		

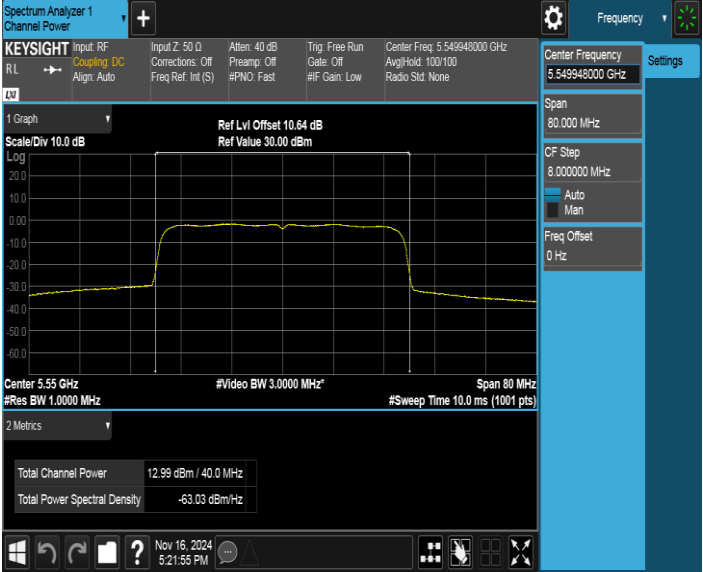
Test Mode	Test Channel	Verdict
11ax HE40	5190	PASS
 Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF Input Z: 50 Ω Attenu: 40 dB Trig: Free Run Center Freq: 5.189841500 GHz R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None Center Frequency: 5.189841500 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Auto Man Freq Offset: 0 Hz 1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 10.12 dB Ref Value: 30.00 dBm Center: 5.19 GHz #Res BW: 1.0000 MHz #Video BW: 3.0000 MHz Span: 80 MHz #Sweep Time: 10.0 ms (1001 pts) 2 Metrics Total Channel Power: 12.63 dBm / 40.7 MHz Total Power Spectral Density: -63.47 dBm/Hz Nov 16, 2024 5:10:54 PM		

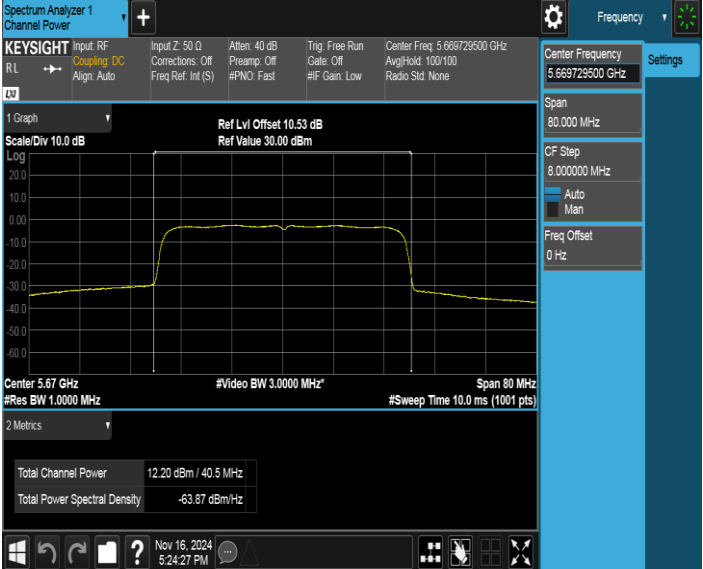
Test Mode	Test Channel	Verdict
11ax HE40	5230	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.23 GHz with a total channel power of 12.80 dBm / 40.7 MHz. The plot is set to a log scale with a span of 80 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.230006500 GHz. The plot shows a signal with a peak at 5.23 GHz and a total channel power of 12.80 dBm / 40.7 MHz. The plot also shows the total power spectral density at -63.30 dBm/Hz.		

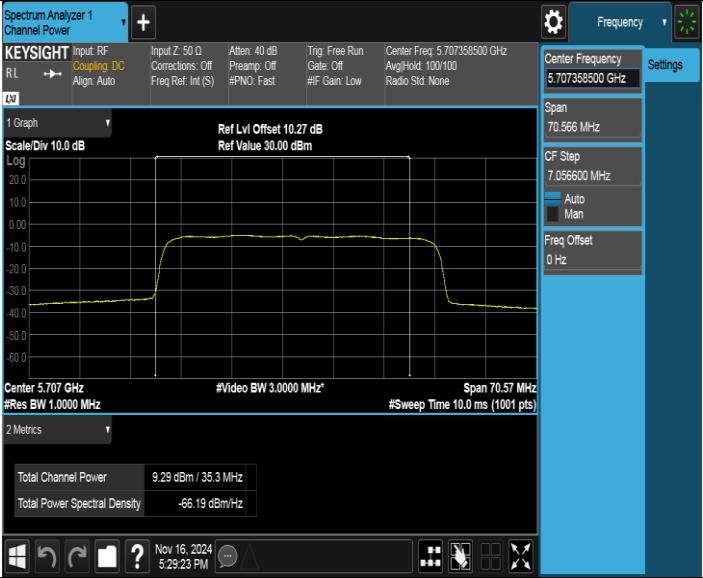
Test Mode	Test Channel	Verdict
11ax HE40	5270	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.27 GHz with a total channel power of 12.91 dBm / 40.1 MHz. The plot is set to a log scale with a span of 80 MHz and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.269989000 GHz. The plot shows a signal with a peak at 5.27 GHz and a total channel power of 12.91 dBm / 40.1 MHz. The plot also shows the total power spectral density at -63.12 dBm/Hz.		

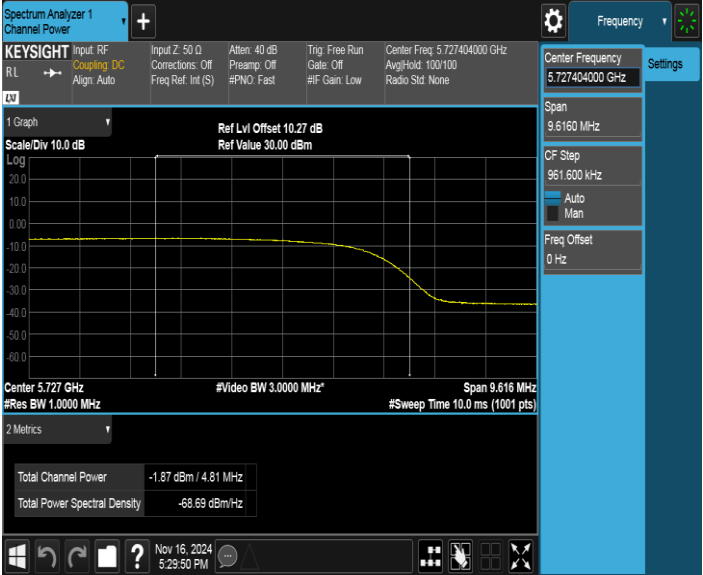
Test Mode	Test Channel	Verdict
11ax HE40	5310	PASS
		

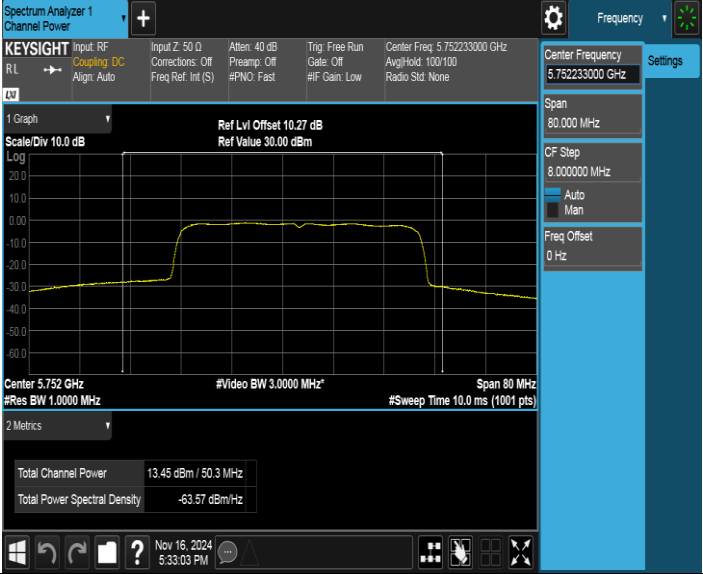
Test Mode	Test Channel	Verdict
11ax HE40	5510	PASS
		

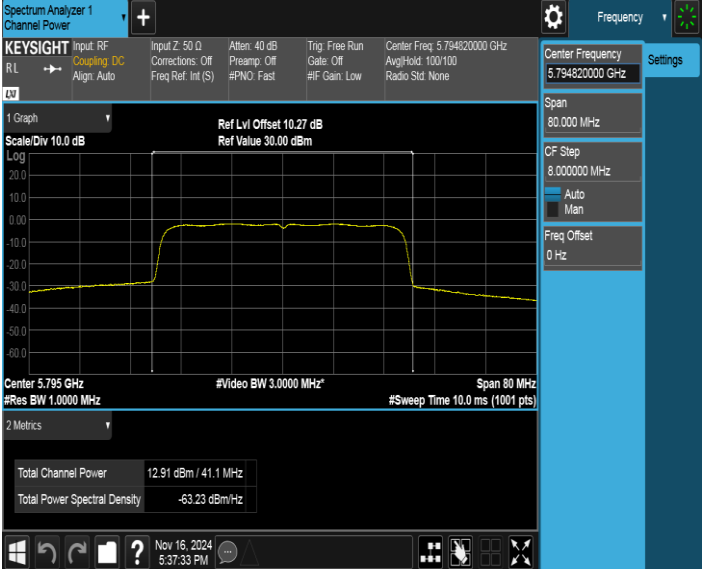
Test Mode	Test Channel	Verdict
11ax HE40	5550	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5670	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5710_UNII-2C	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.707 GHz with a total channel power of 9.29 dBm / 35.3 MHz. The plot is set to a scale of 10.0 dB and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.707358500 GHz, and the span is 70.566 MHz. The plot shows a signal with a peak at 5.707 GHz and a total channel power of 9.29 dBm / 35.3 MHz. The plot also shows the total power spectral density at -66.19 dBm/Hz.		

Test Mode	Test Channel	Verdict
11ax HE40	5710_UNII-3	PASS
 The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.727 GHz with a total channel power of -1.87 dBm / 4.81 MHz. The plot is set to a scale of 10.0 dB and a resolution bandwidth of 1.0000 MHz. The center frequency is 5.727404000 GHz, and the span is 9.616 MHz. The plot shows a signal with a peak at 5.727 GHz and a total channel power of -1.87 dBm / 4.81 MHz. The plot also shows the total power spectral density at -68.69 dBm/Hz.		

Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5795	PASS
		

6.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E RSS-247 Clause 6.2		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☒ Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	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, maximum power spectral density 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.F.

Connect the EUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

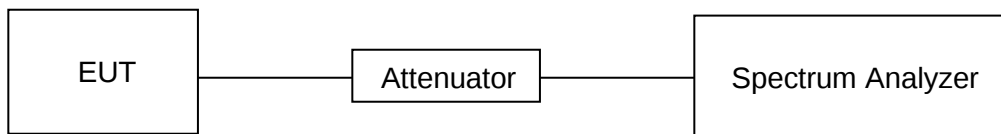
For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

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	11/16/2024

RESULTS

Band 1 & Band 2:

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11a	5180	2.01	0	2.01	11	/	2.66	4.67	10
	5200	2.16	0	2.16	11	/	2.66	4.82	10
	5240	1.87	0	1.87	11	/	2.66	4.53	10
	5260	2.07	0	2.07	11	11	2.66	4.73	/
	5280	1.98	0	1.98	11	11	2.66	4.64	/
	5320	1.56	0	1.56	11	11	2.66	4.22	/
	5500	2.15	0	2.15	11	11	2.66	4.81	/
	5580	1.45	0	1.45	11	11	2.66	4.11	/
	5700	1.16	0	1.16	11	11	2.66	3.82	/
	5720_ UNII-2C	0.55	0	0.55	11	11	2.66	3.21	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT20	5180	1.64	0	1.64	11	/	2.66	4.30	10
	5200	1.85	0	1.85	11	/	2.66	4.51	10
	5240	1.68	0	1.68	11	/	2.66	4.34	10
	5260	1.87	0	1.87	11	11	2.66	4.53	/
	5280	1.85	0	1.85	11	11	2.66	4.51	/
	5320	1.30	0	1.30	11	11	2.66	3.96	/
	5500	1.67	0	1.67	11	11	2.66	4.33	/
	5580	1.18	0	1.18	11	11	2.66	3.84	/
	5700	0.61	0	0.61	11	11	2.66	3.27	/
	5720_ UNII-2C	0.31	0	0.31	11	11	2.66	2.97	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5190	-1.39	0	-1.39	11	/	2.66	1.27	10
	5230	-1.28	0	-1.28	11	/	2.66	1.38	10
	5270	-1.27	0	-1.27	11	/	2.66	1.39	/
	5310	-1.81	0	-1.81	11	11	2.66	0.85	/
	5510	-1.59	0	-1.59	11	11	2.66	1.07	/
	5550	-1.16	0	-1.16	11	11	2.66	1.50	/
	5670	-2.19	0	-2.19	11	11	2.66	0.47	/
	5710_ UNII-2C	-2.70	0	-2.70	11	11	2.66	-0.04	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ax HE20	5180	1.50	0	1.50	11	/	2.66	4.16	10
	5200	1.80	0	1.80	11	/	2.66	4.46	10
	5240	1.56	0	1.56	11	/	2.66	4.22	10
	5260	1.68	0	1.68	11	11	2.66	4.34	/
	5280	1.75	0	1.75	11	11	2.66	4.41	/
	5320	1.10	0	1.10	11	11	2.66	3.76	/
	5500	1.57	0	1.57	11	11	2.66	4.23	/
	5580	1.03	0	1.03	11	11	2.66	3.69	/
	5700	0.62	0	0.62	11	11	2.66	3.28	/
	5720_ UNII-2C	0.08	0	0.08	11	11	2.66	2.74	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ax HE40	5190	-1.64	0	-1.64	11	/	2.66	1.02	10
	5230	-1.25	0	-1.25	11	/	2.66	1.41	10
	5270	-1.31	0	-1.31	11	/	2.66	1.35	/
	5310	-1.71	0	-1.71	11	11	2.66	0.95	/
	5510	-1.72	0	-1.72	11	11	2.66	0.94	/
	5550	-1.28	0	-1.28	11	11	2.66	1.38	/
	5670	-2.22	0	-2.22	11	11	2.66	0.44	/
	5710_UNII-2C	-4.63	0	-4.63	11	11	2.66	-1.97	/

Band 3:

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11a	5720_UNII-3	-2.55	0	-2.55	2.22	-0.33	30
	5745	-1.02	0	-1.02	2.22	1.20	30
	5785	-0.47	0	-0.47	2.22	1.75	30
	5825	-1.17	0	-1.17	2.22	1.05	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT20	5720_UNII-3	-2.86	0	-2.86	2.22	-0.64	30
	5745	-1.28	0	-1.28	2.22	0.94	30
	5785	-0.83	0	-0.83	2.22	1.39	30
	5825	-1.57	0	-1.57	2.22	0.65	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5710_UNII-3	-7.02	0	-7.02	2.22	-4.80	30
	5755	-3.76	0	-3.76	2.22	-1.54	30
	5795	-3.96	0	-3.96	2.22	-1.74	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ax HE20	5720_UNII-3	-2.83	0	-2.83	2.22	-0.61	30
	5745	-1.26	0	-1.26	2.22	0.96	30
	5785	-0.84	0	-0.84	2.22	1.38	30
	5825	-1.78	0	-1.78	2.22	0.44	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ax HE40	5710_UNII-3	-8.74	0	-8.74	2.22	-6.52	30
	5755	-3.66	0	-3.66	2.22	-1.44	30
	5795	-4.10	0	-4.10	2.22	-1.88	30

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725 - 5.85 GHz.
2. $PSD/500\text{ kHz} = 10 \cdot \log(10^{((PSD/300\text{ kHz})/10)/300 \cdot 500})$
 $= PSD/300\text{ kHz} + 2.2\text{ dB}$