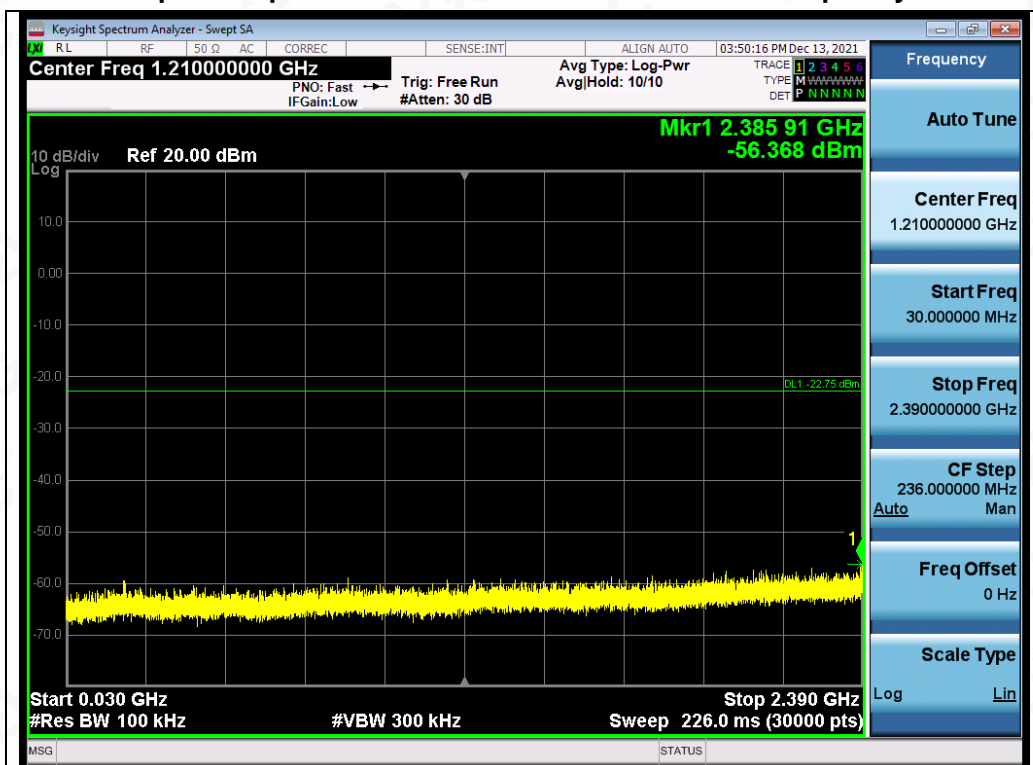


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Emissions

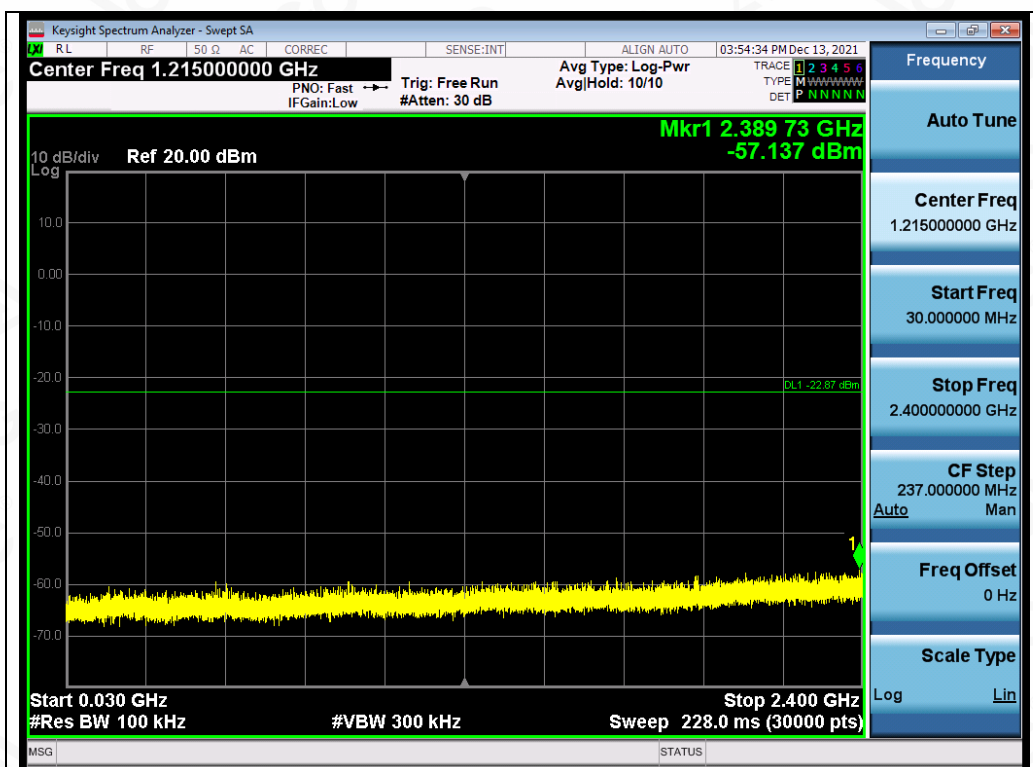


Test_Graph_802.11b_ANT1_2412_1Mbps_Higher Band Emissions

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Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions

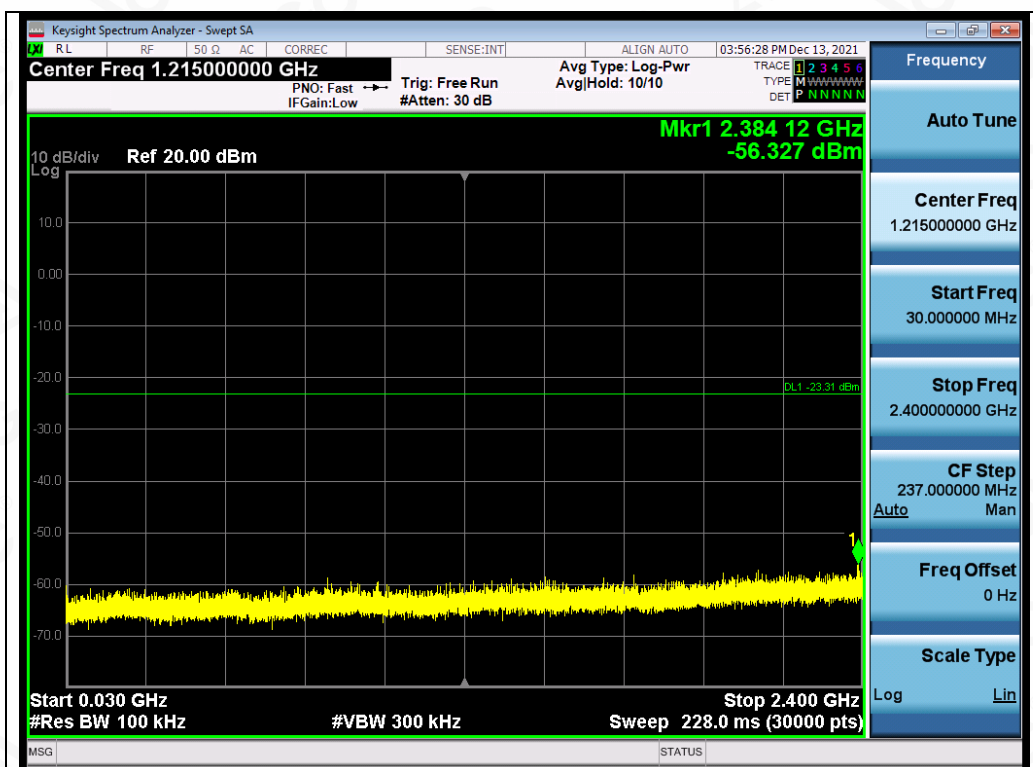


Test_Graph_802.11b_ANT1_2437_1Mbps_Higher Band Emissions

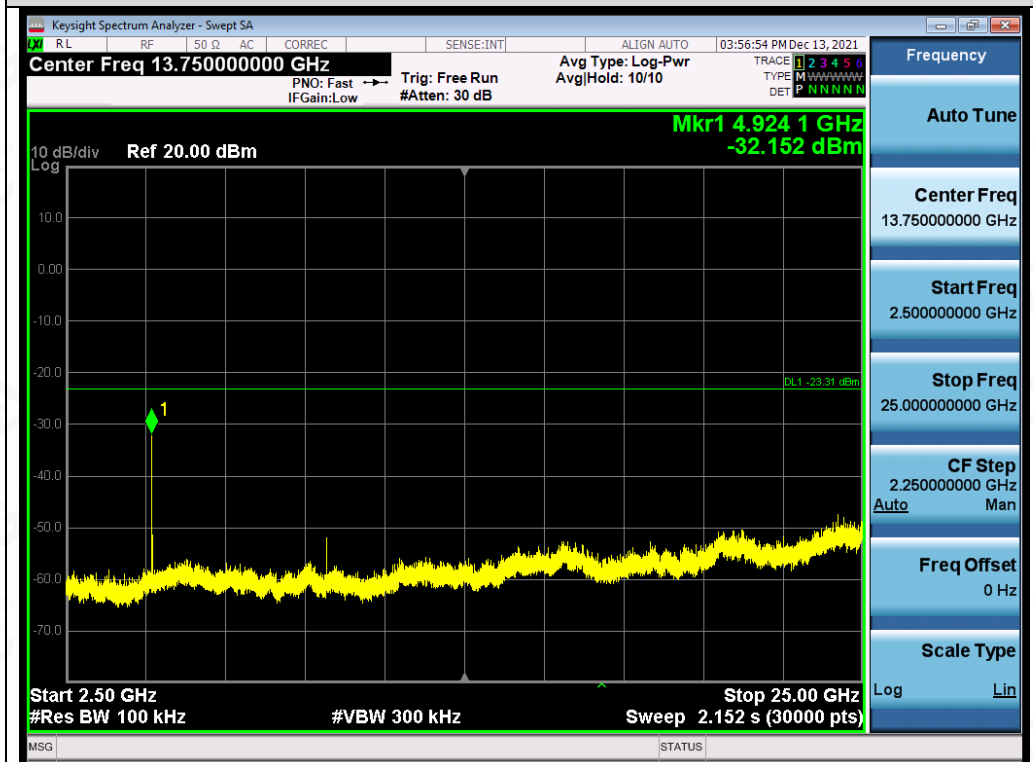
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Test_Graph_802.11b_ANT1_2462_1Mbps_Lower Band Emissions

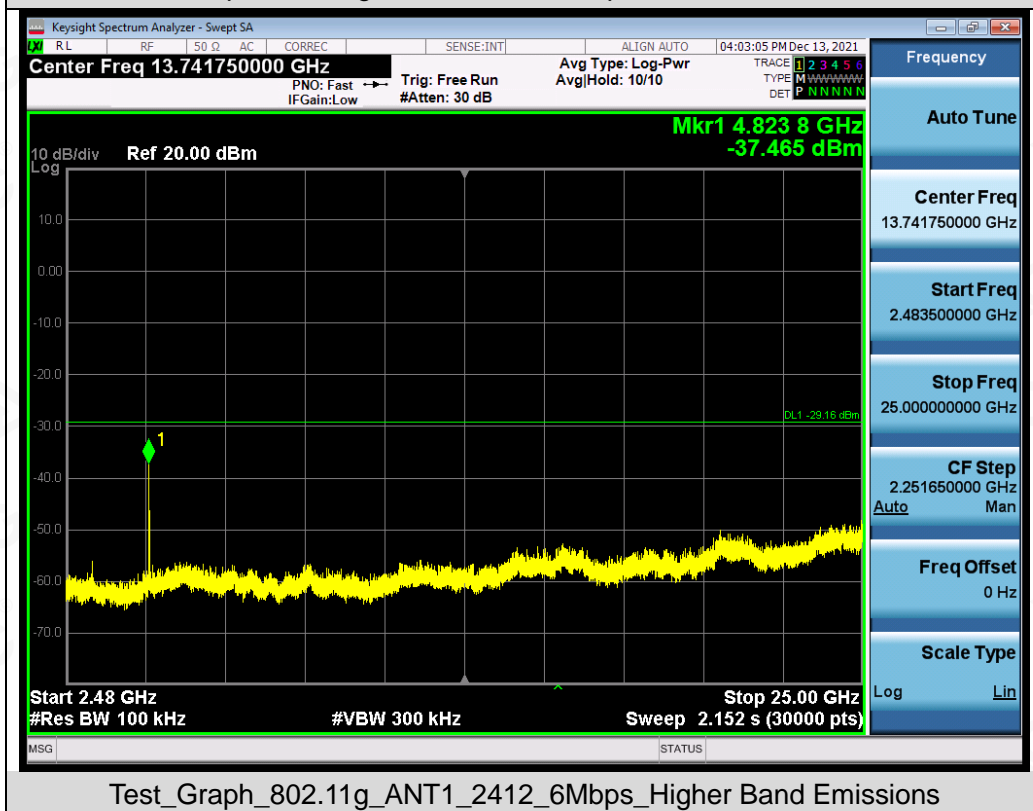
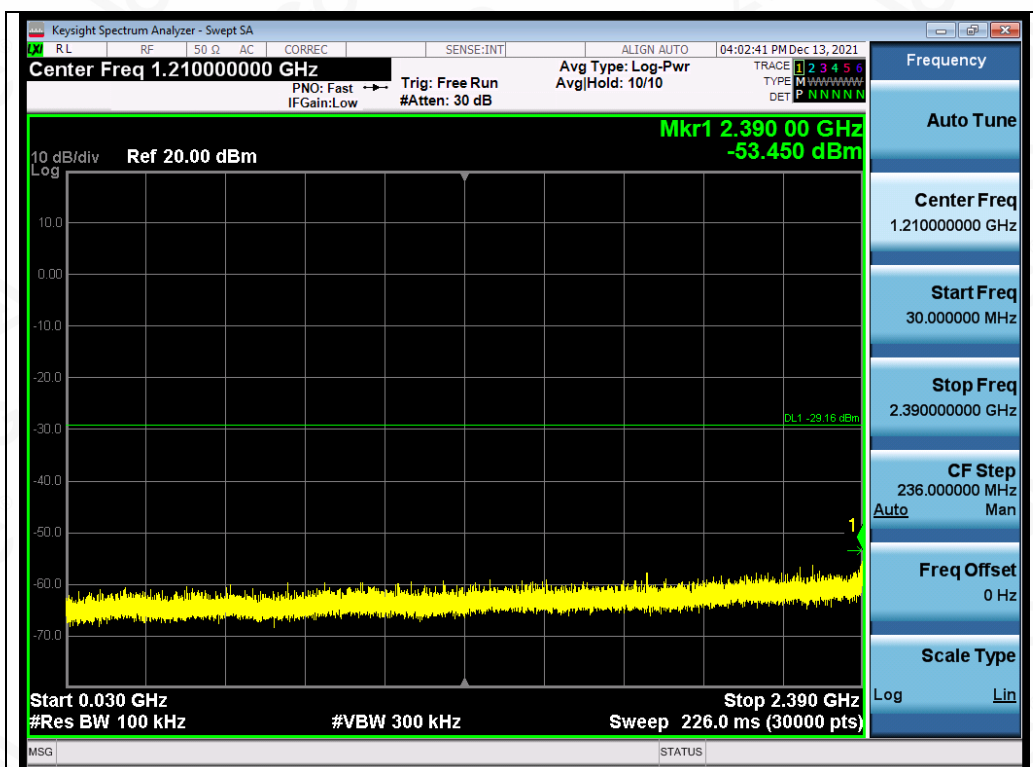


Test_Graph_802.11b_ANT1_2462_1Mbps_Higher Band Emissions

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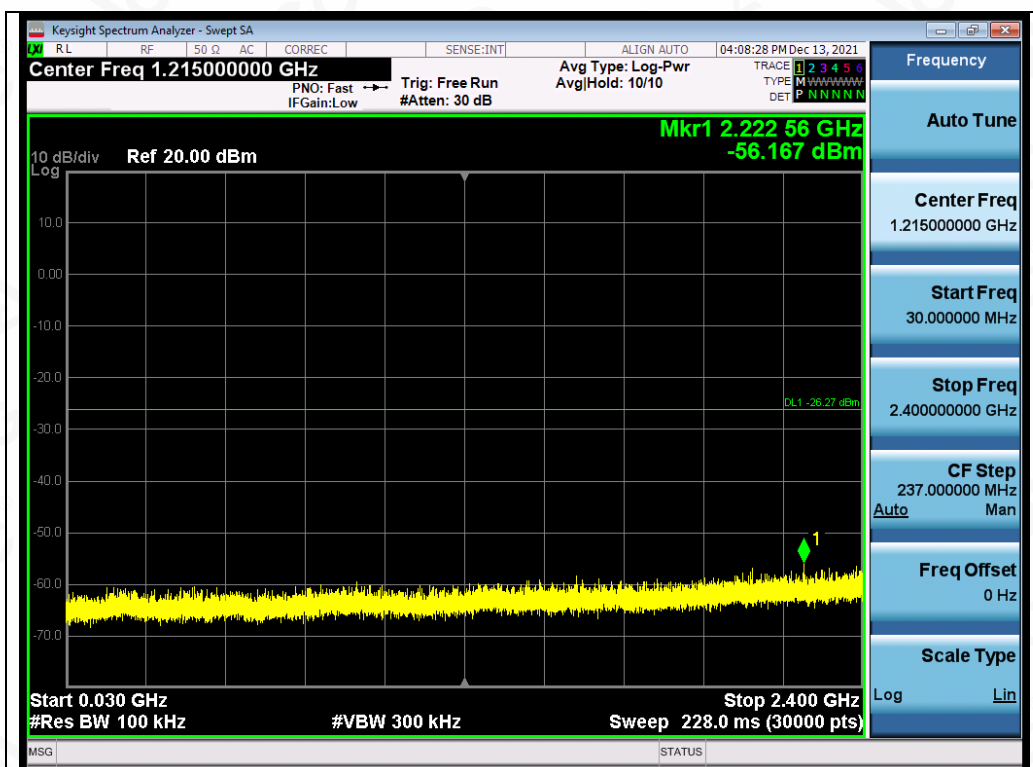




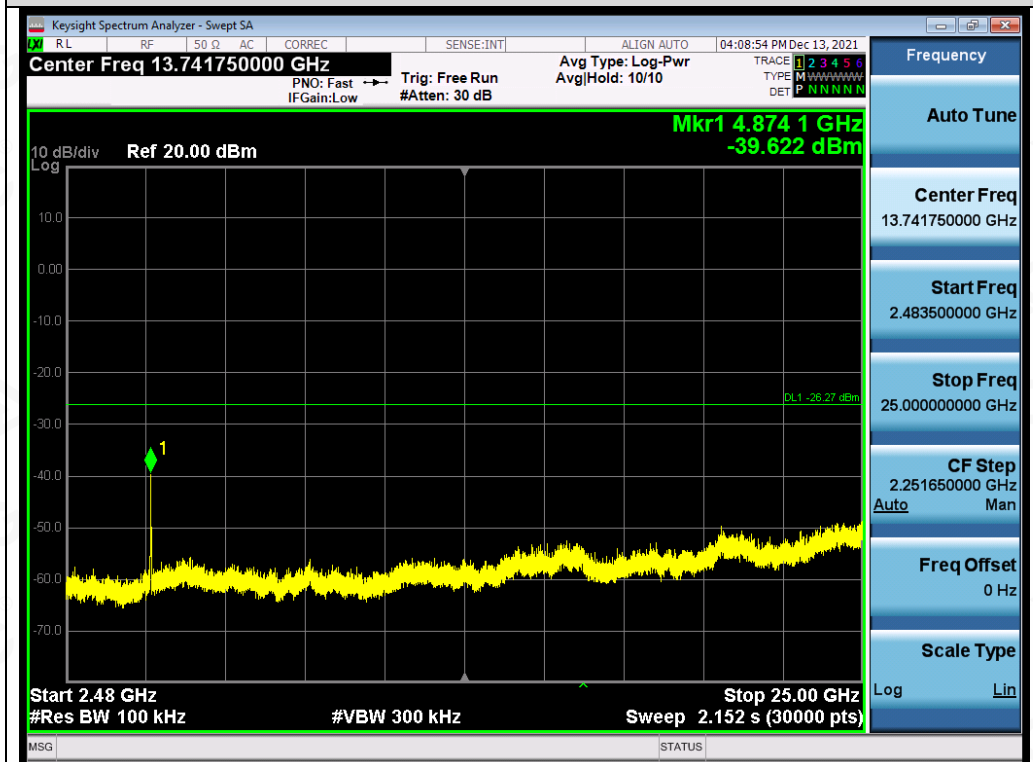
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Test_Graph_802.11g_ANT1_2437_6Mbps_Lower Band Emissions

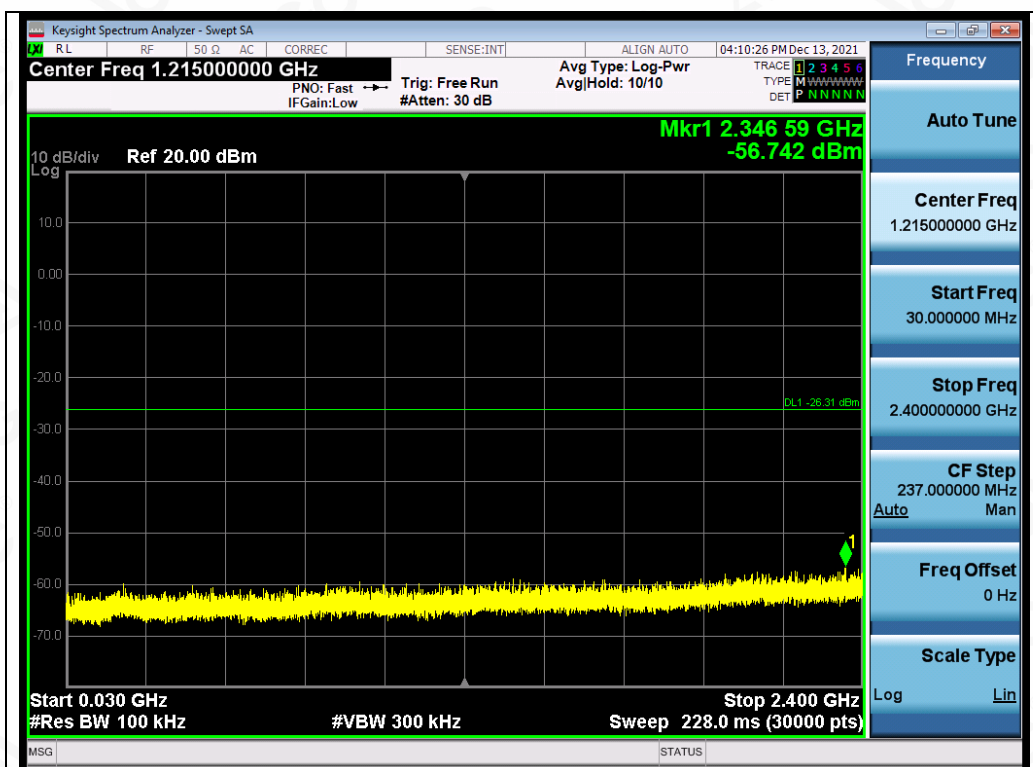


Test_Graph_802.11g_ANT1_2437_6Mbps_Higher Band Emissions

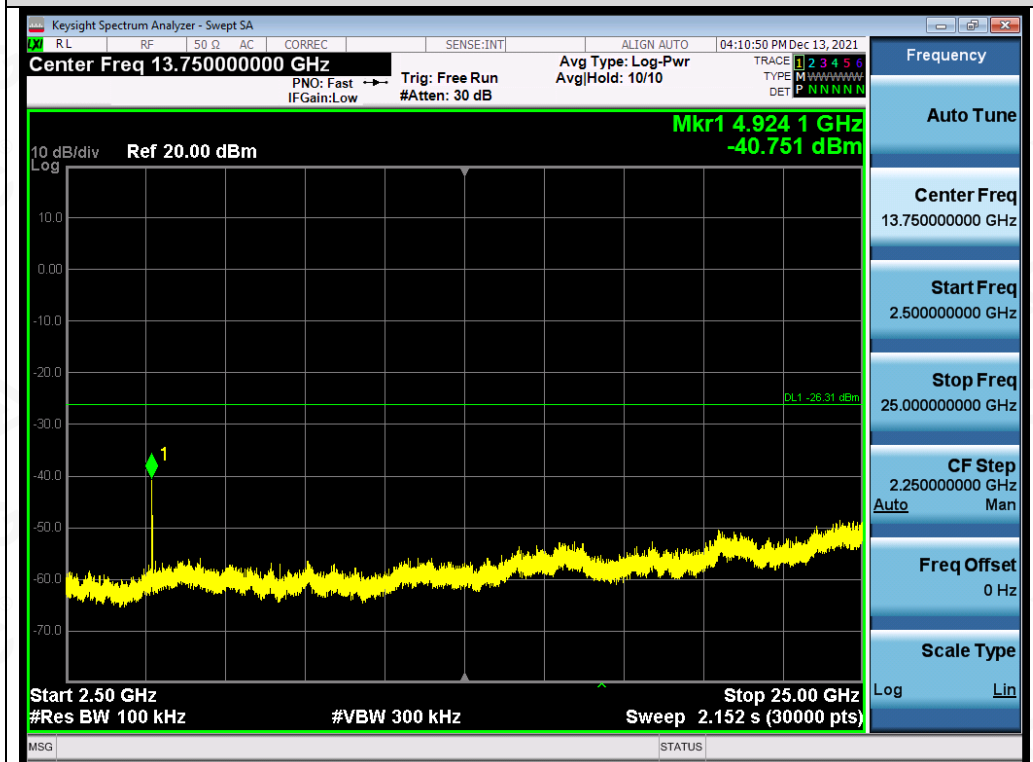
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Test_Graph_802.11g_ANT1_2462_6Mbps_Lower Band Emissions

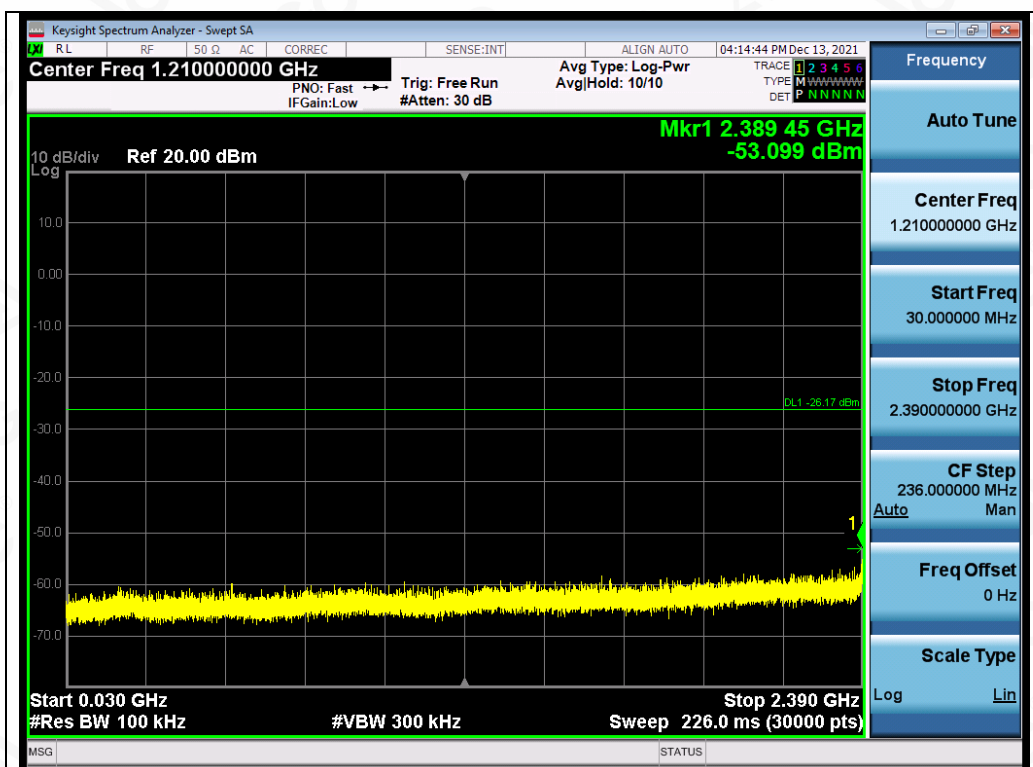


Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

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Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Emissions

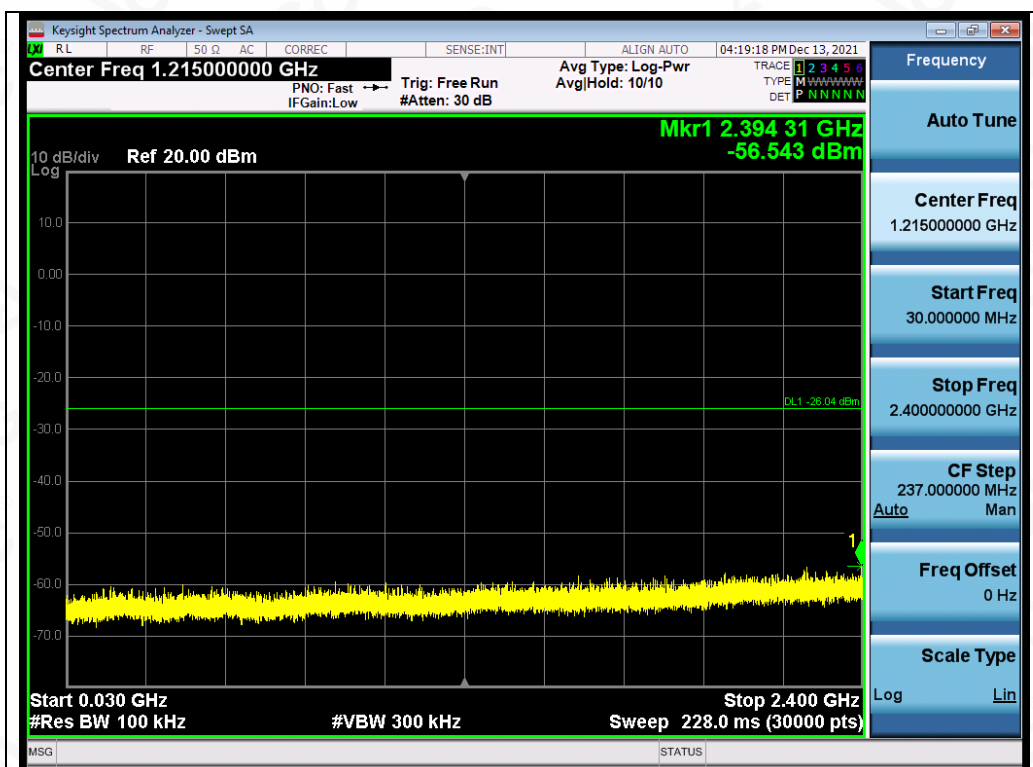


Test_Graph_802.11n20_ANT1_2412_MCS0_Higher Band Emissions

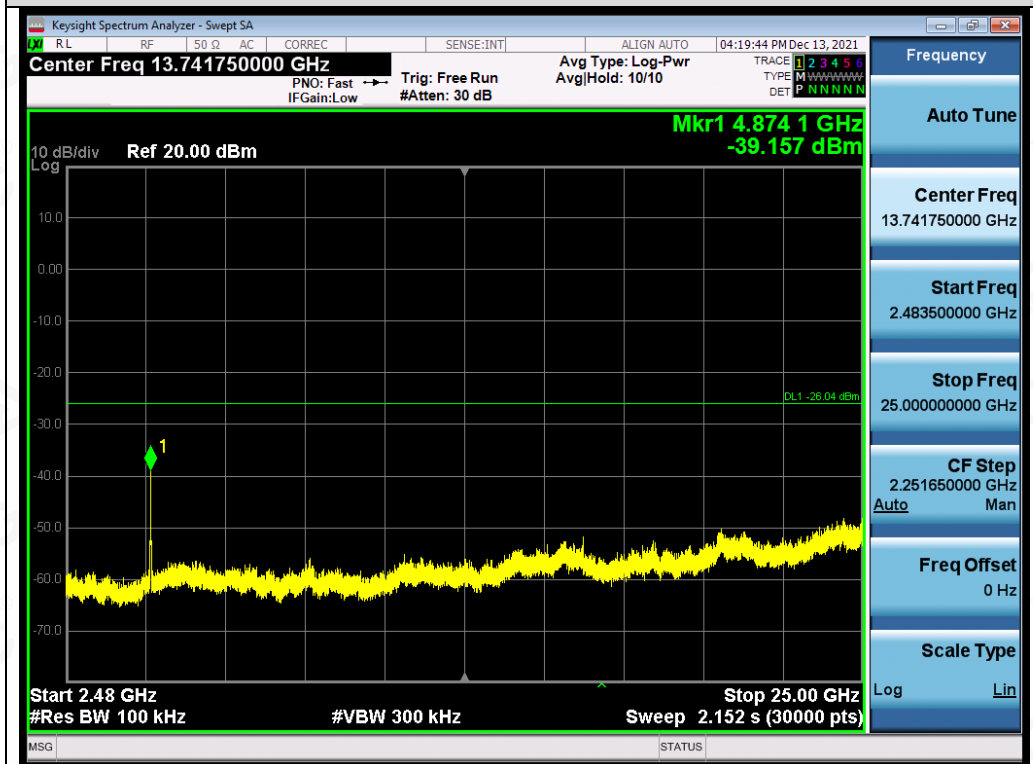
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Test_Graph_802.11n20_ANT1_2437_MCS0_Lower Band Emissions

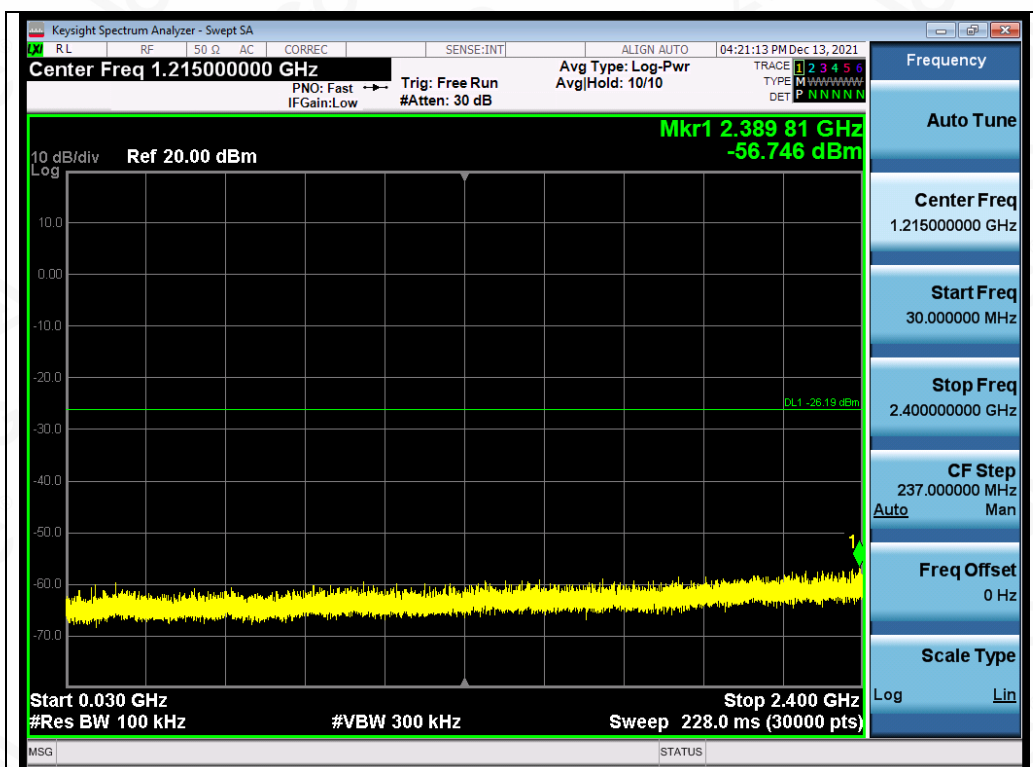


Test_Graph_802.11n20_ANT1_2437_MCS0_Higher Band Emissions

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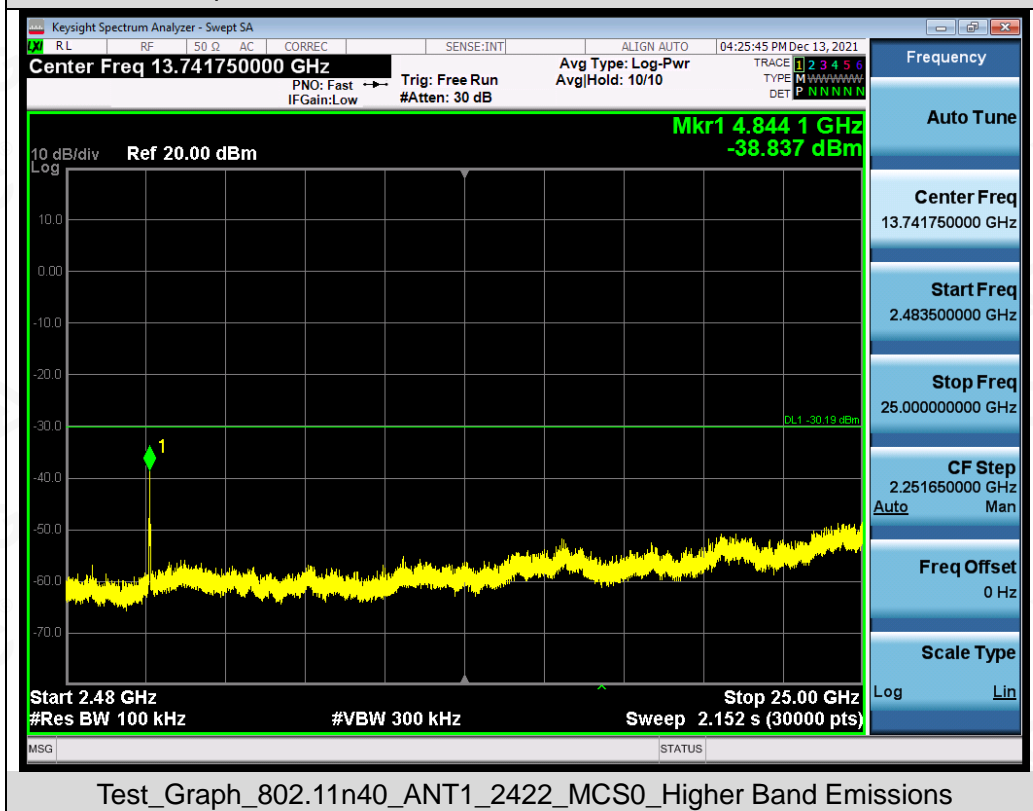
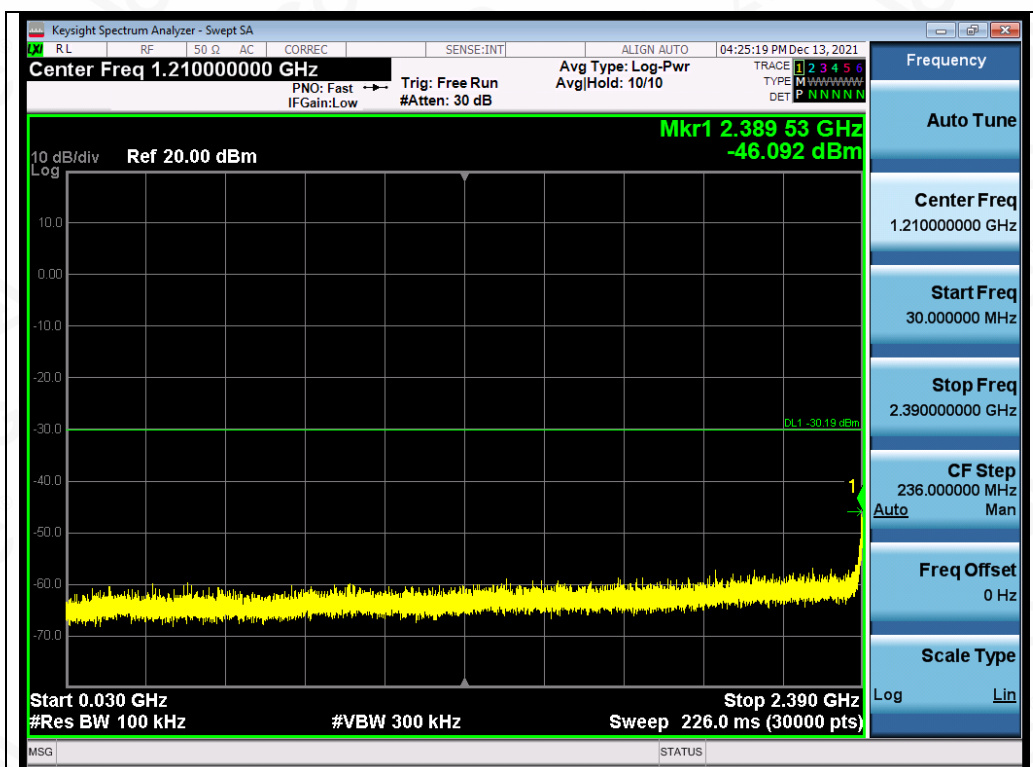




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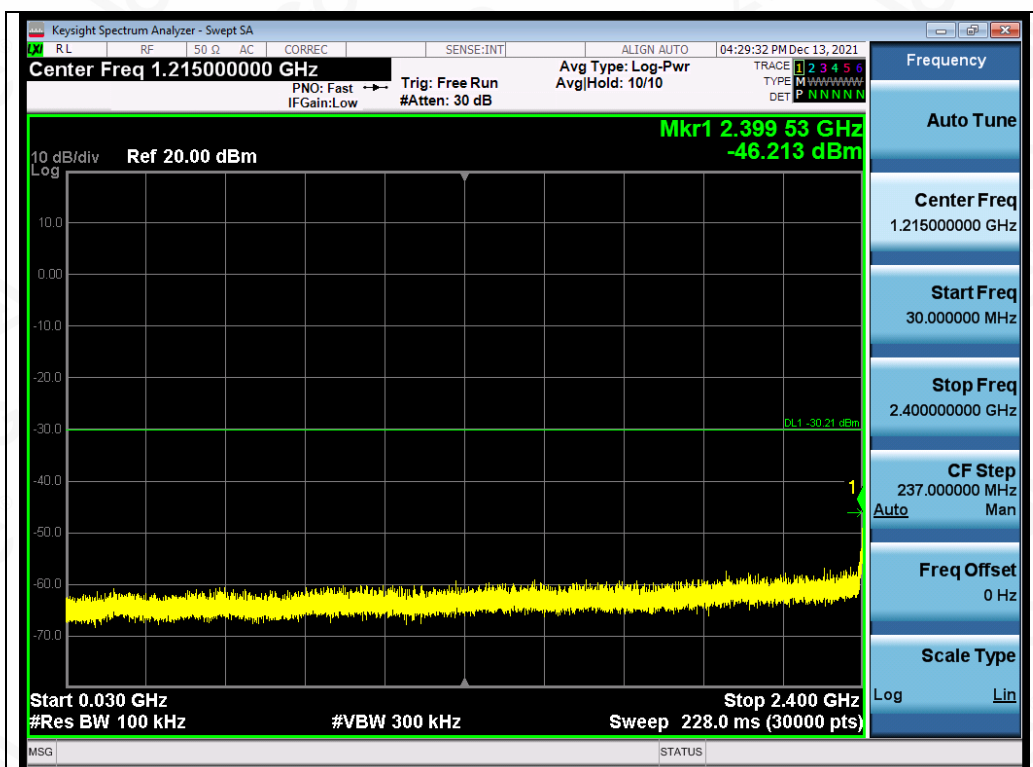




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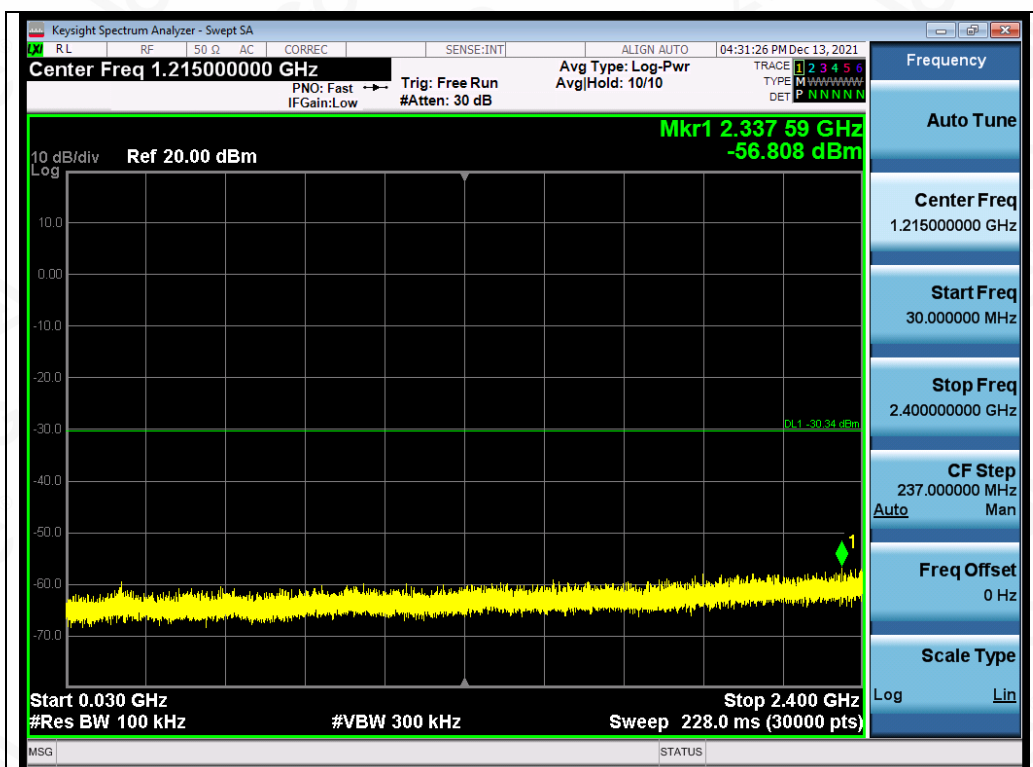




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Test_Graph_802.11n40_ANT1_2452_MCS0_Lower Band Emissions

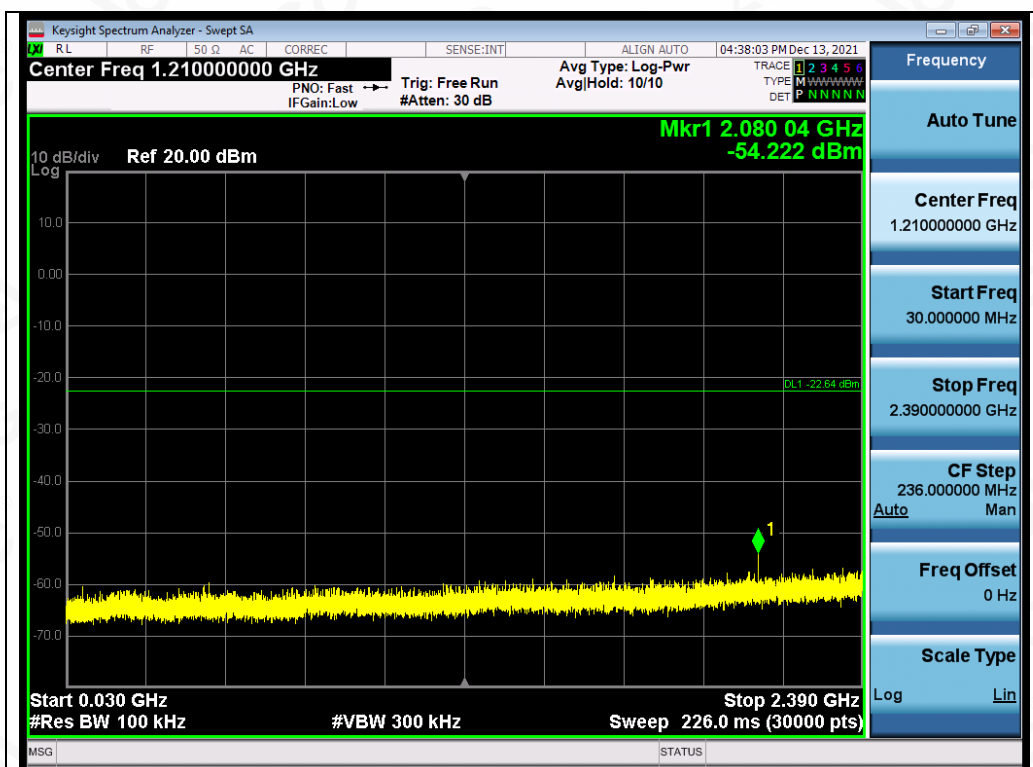


Test_Graph_802.11n40_ANT1_2452_MCS0_Higher Band Emissions

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Test_Graph_802.11b_ANT2_2412_1Mbps_Lower Band Emissions

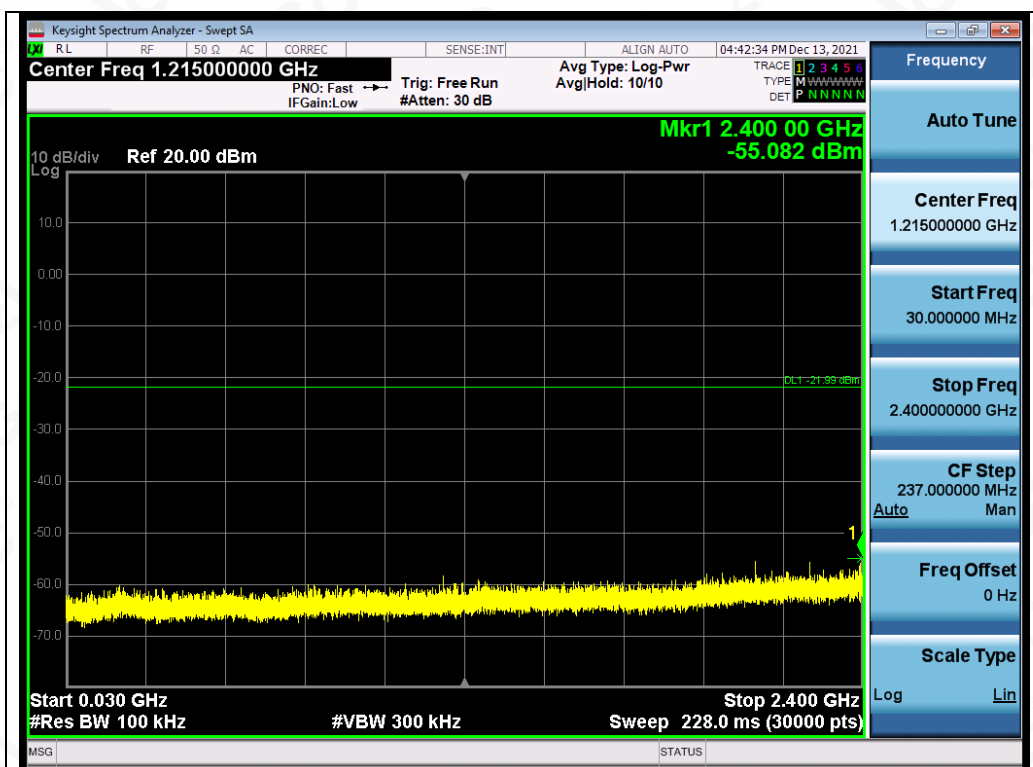


Test_Graph_802.11b_ANT2_2412_1Mbps_Higher Band Emissions

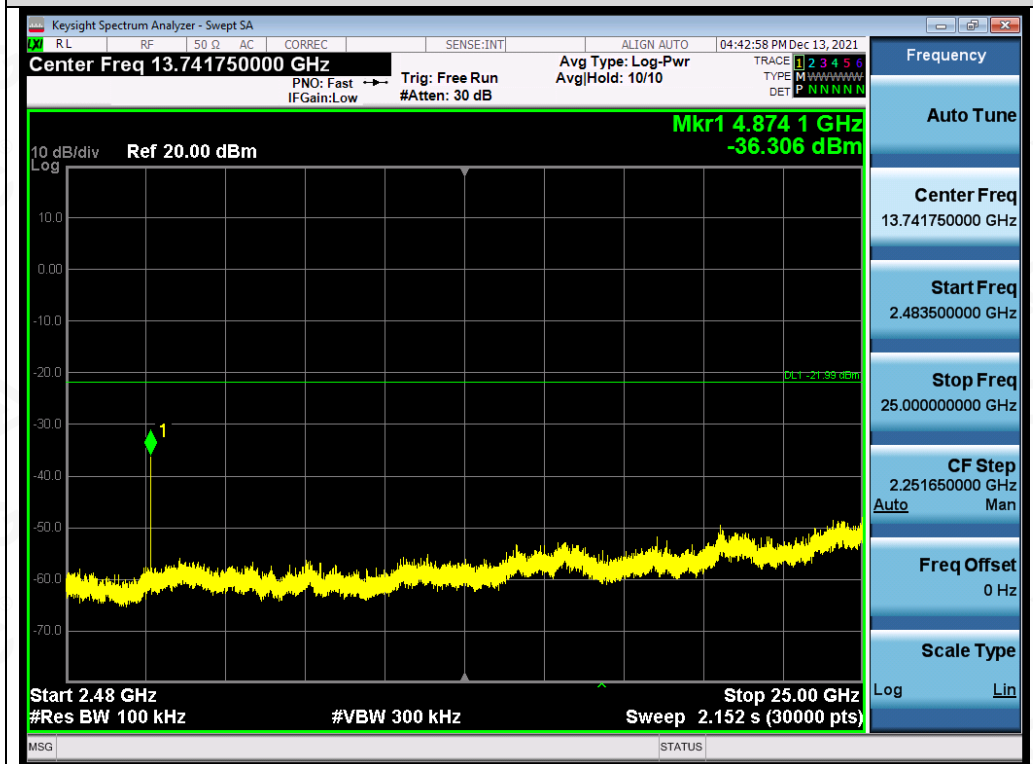
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Test_Graph_802.11b_ANT2_2437_1Mbps_Lower Band Emissions

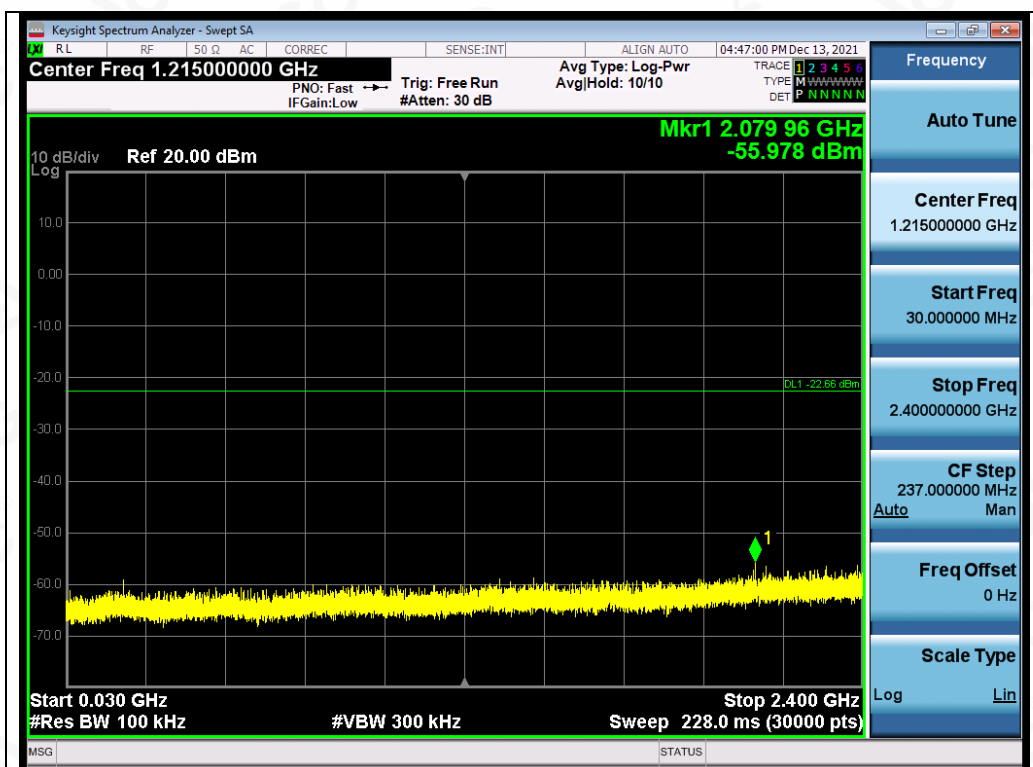


Test_Graph_802.11b_ANT2_2437_1Mbps_Higher Band Emissions

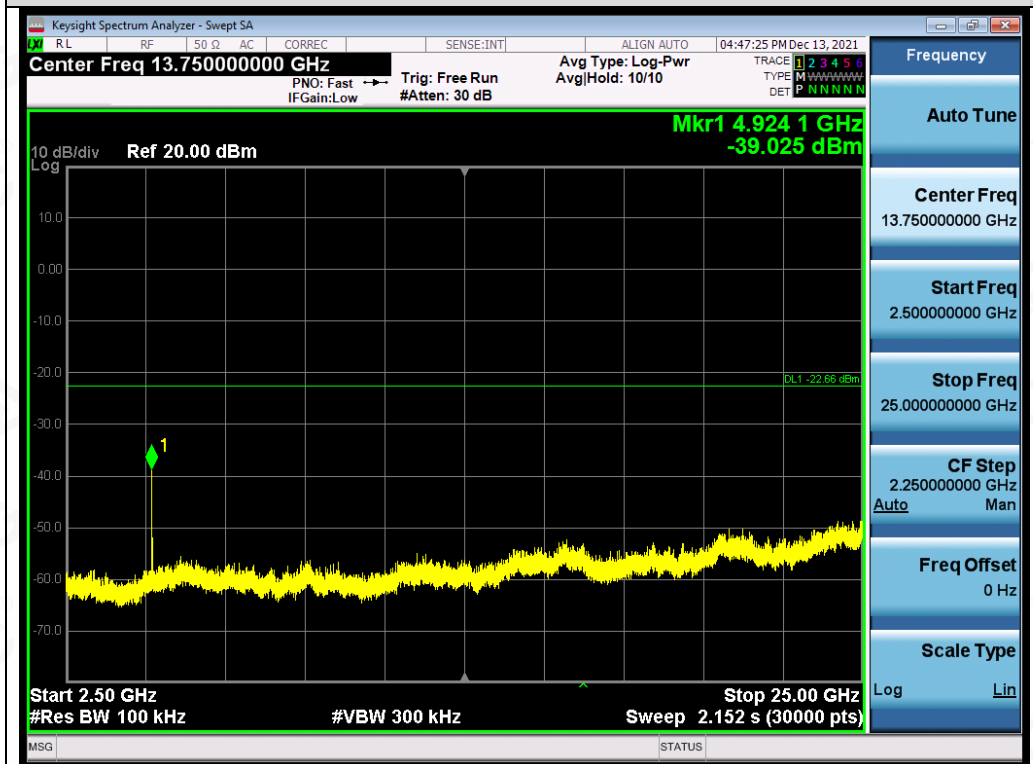
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Test_Graph_802.11b_ANT2_2462_1Mbps_Lower Band Emissions

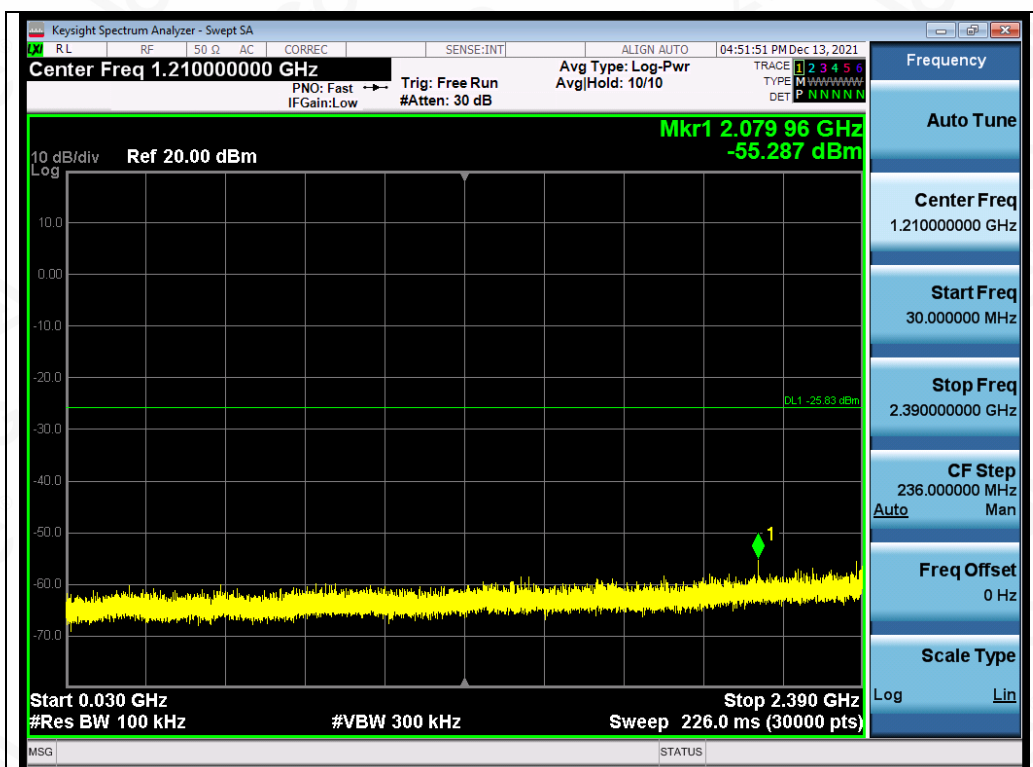


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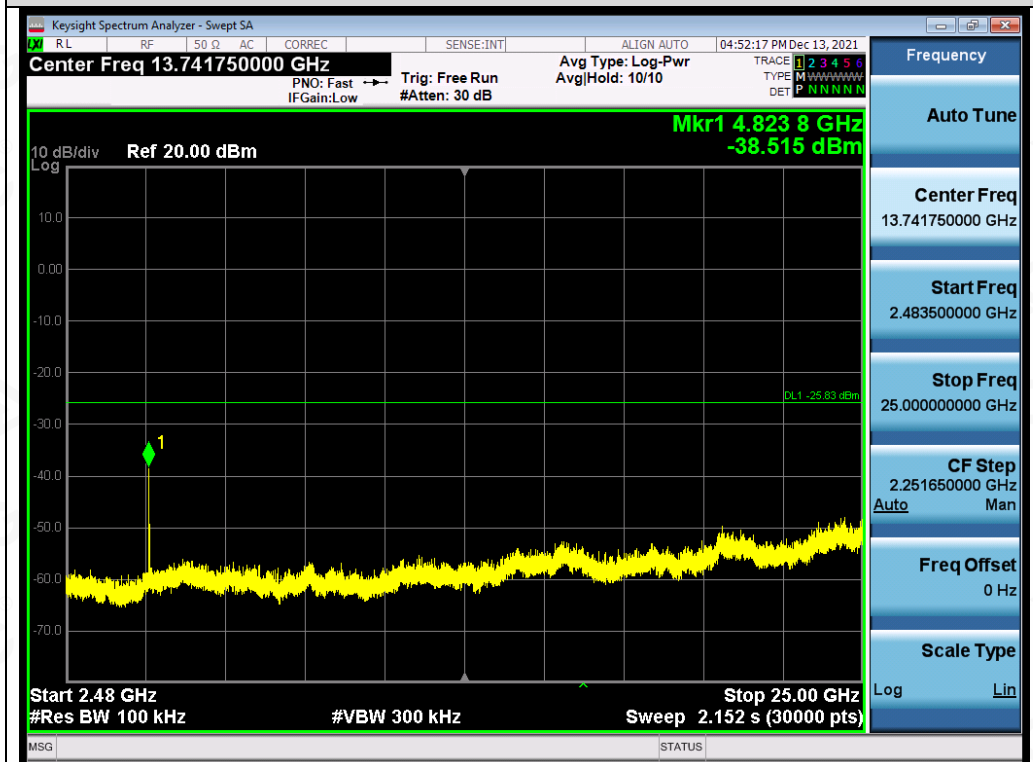
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Test_Graph_802.11g_ANT2_2412_6Mbps_Lower Band Emissions

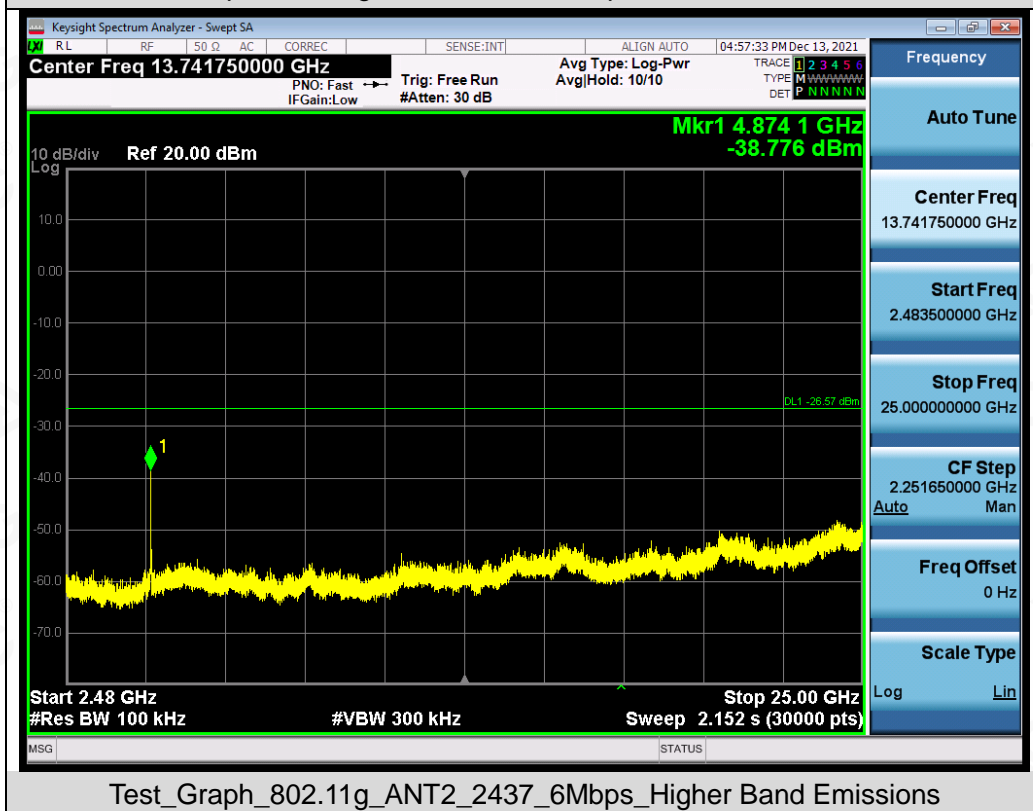
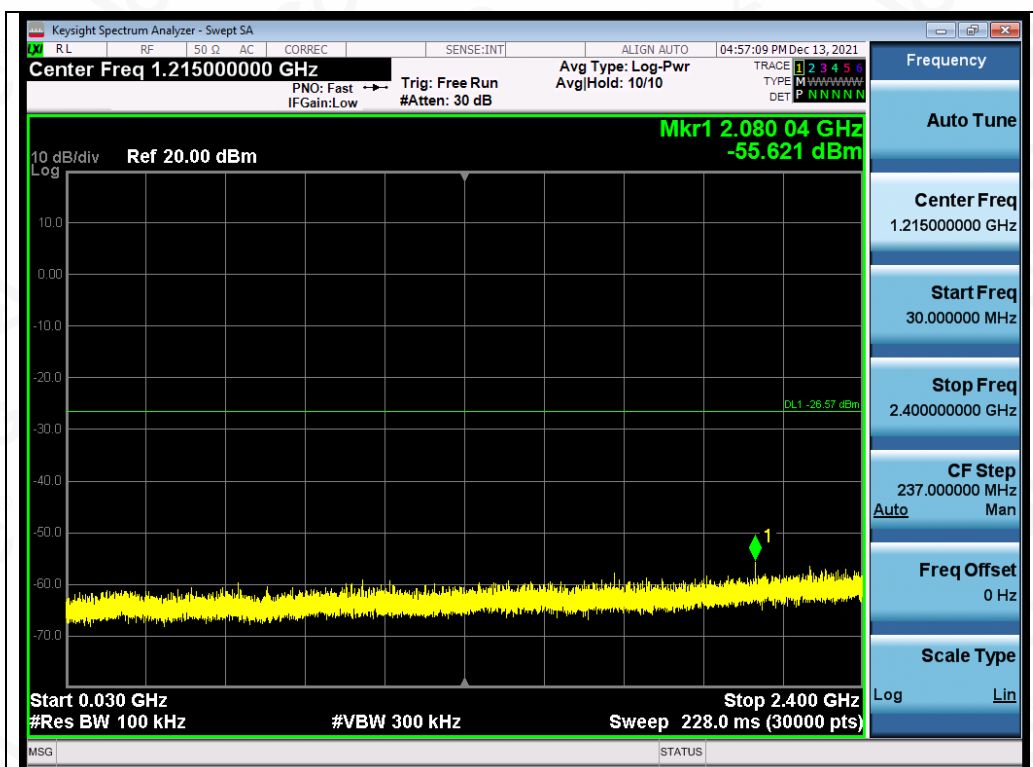


Test_Graph_802.11g_ANT2_2412_6Mbps_Higher Band Emissions

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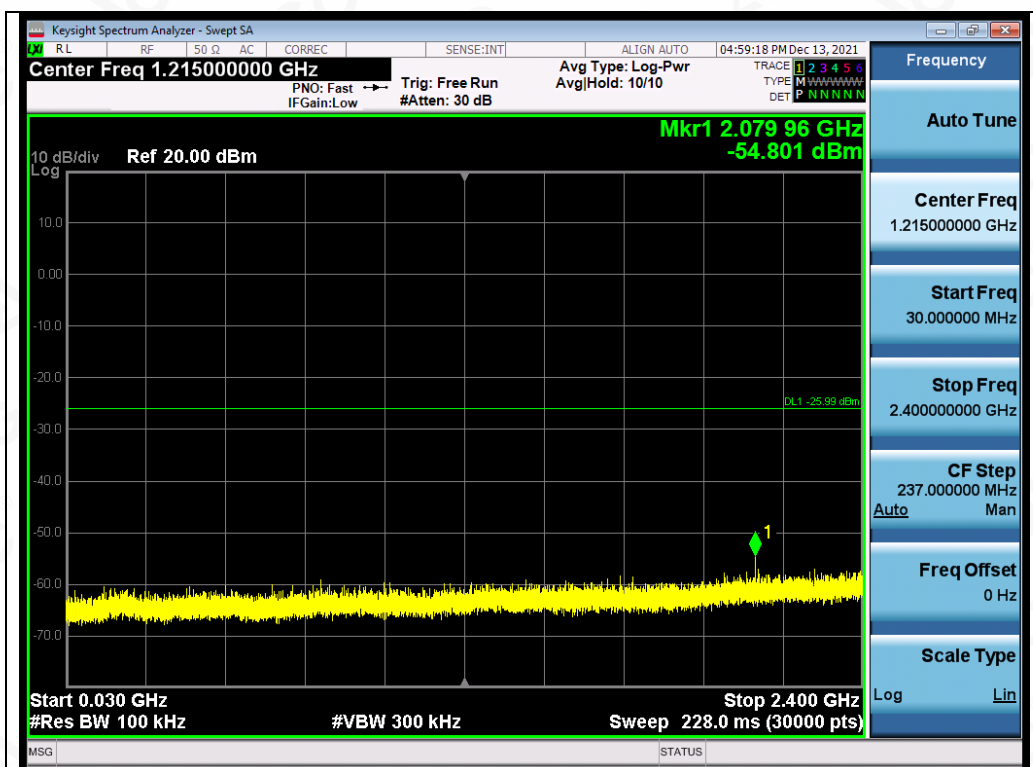




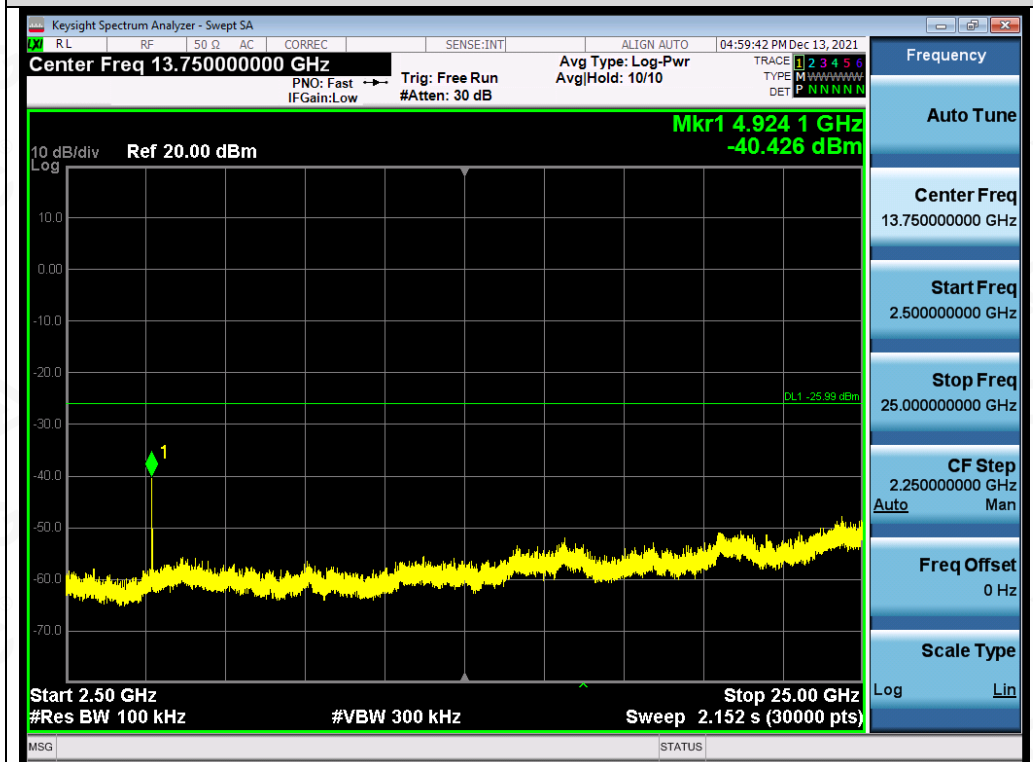
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Test_Graph_802.11g_ANT2_2462_6Mbps_Lower Band Emissions

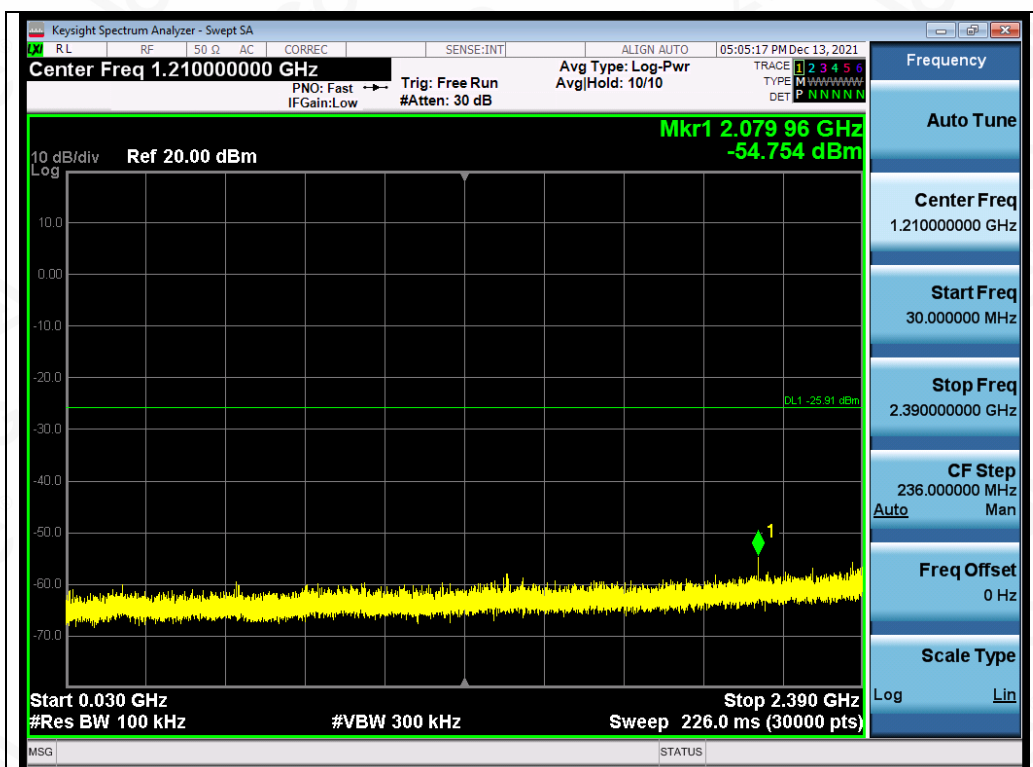


Test_Graph_802.11g_ANT2_2462_6Mbps_Higher Band Emissions

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Test_Graph_802.11n20_ANT2_2412_MCS0_Lower Band Emissions

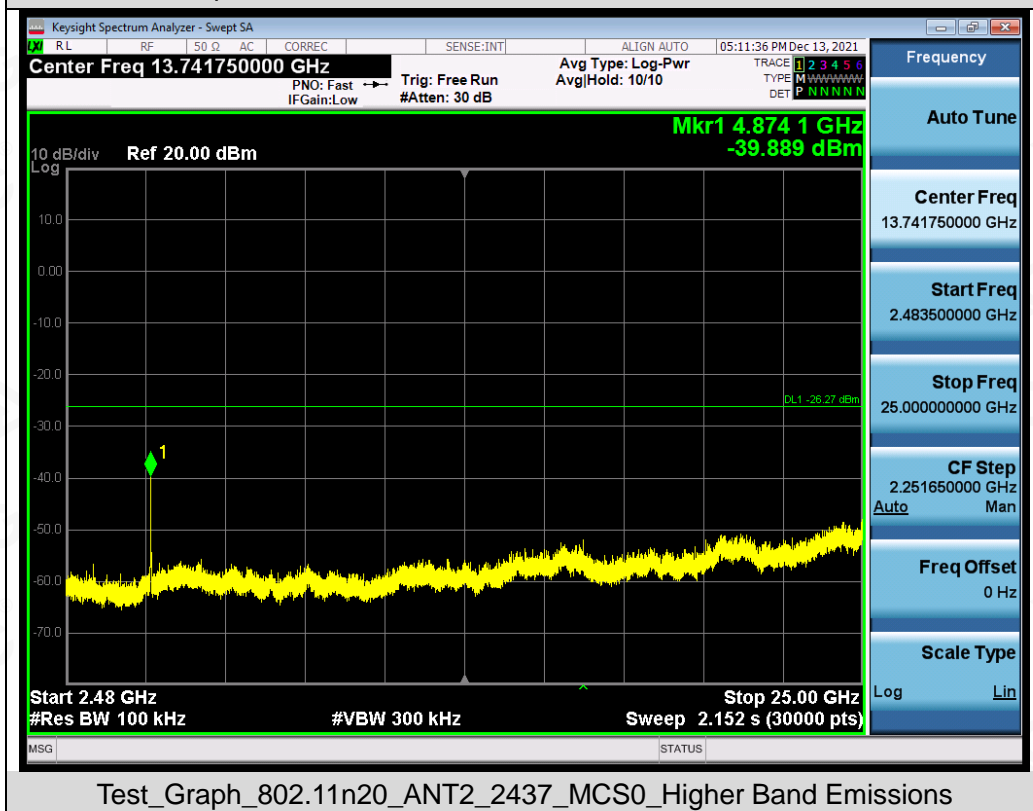
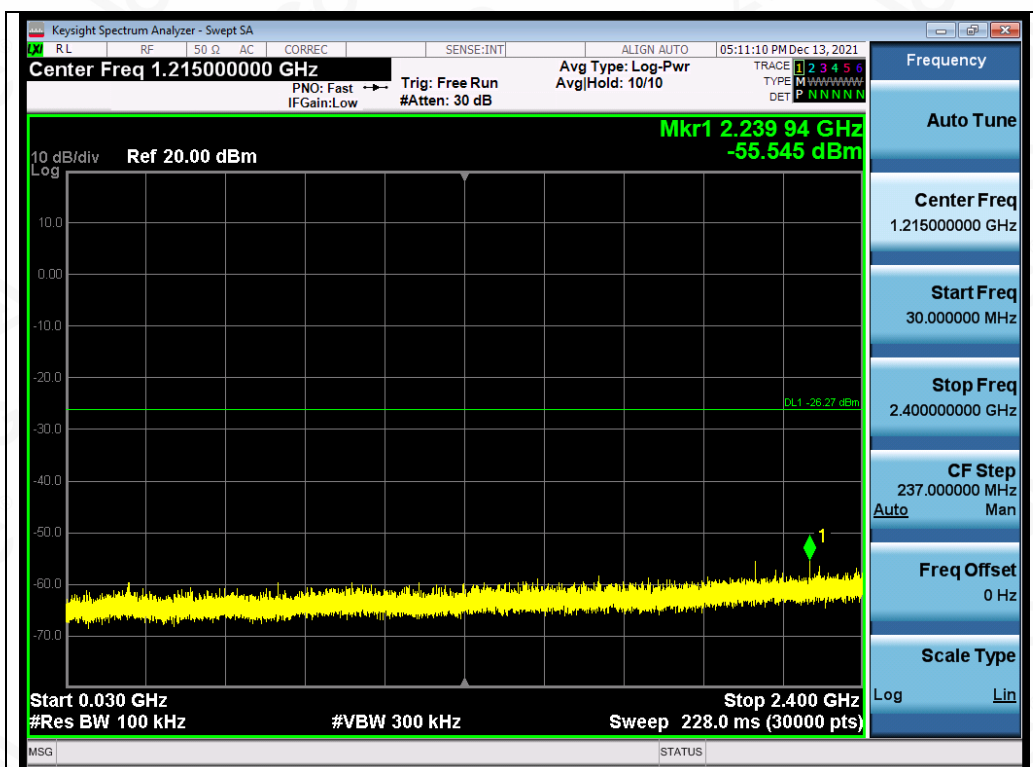


Test_Graph_802.11n20_ANT2_2412_MCS0_Higher Band Emissions

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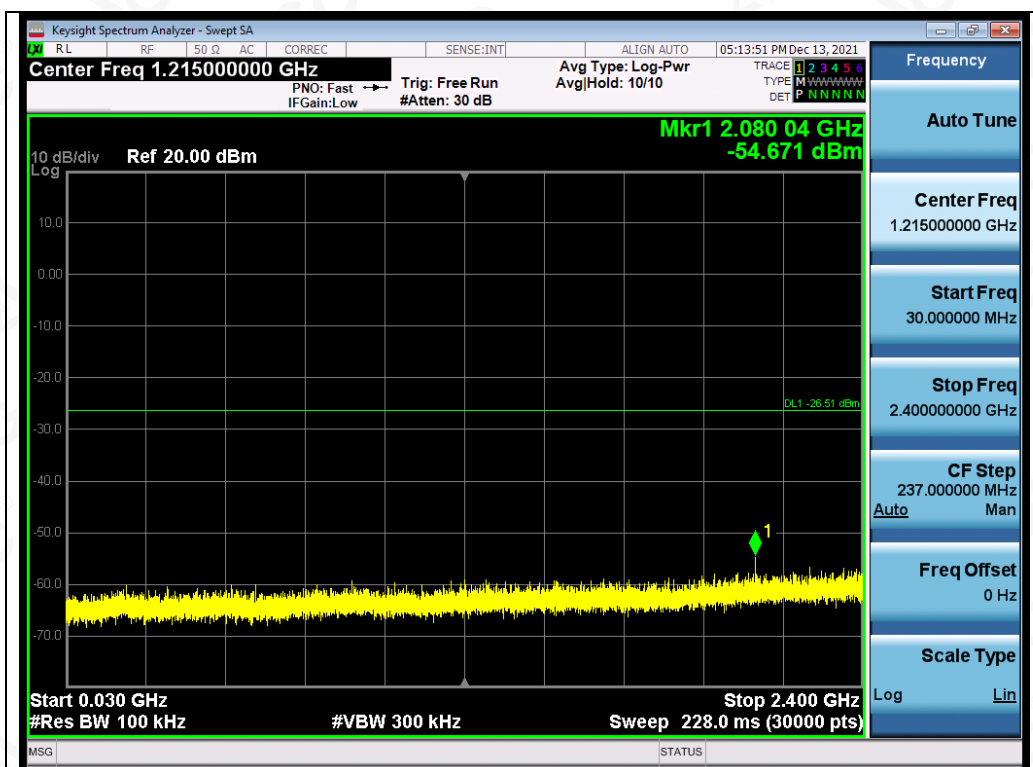




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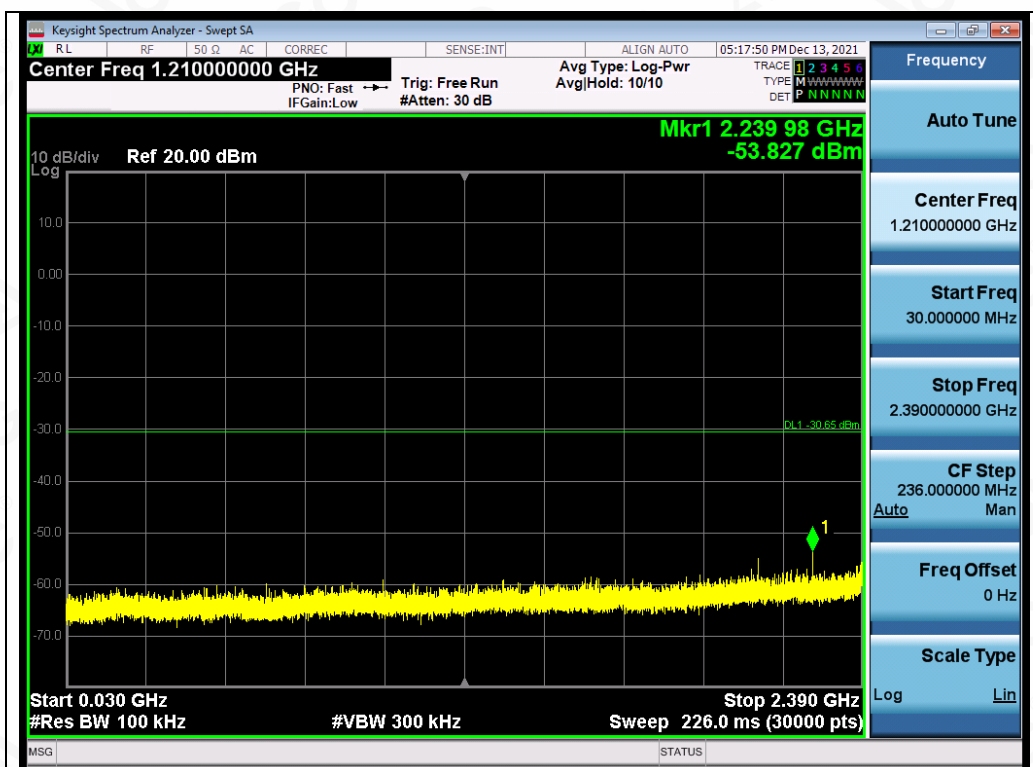




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Test_Graph_802.11n40_ANT2_2422_MCS0_Lower Band Emissions

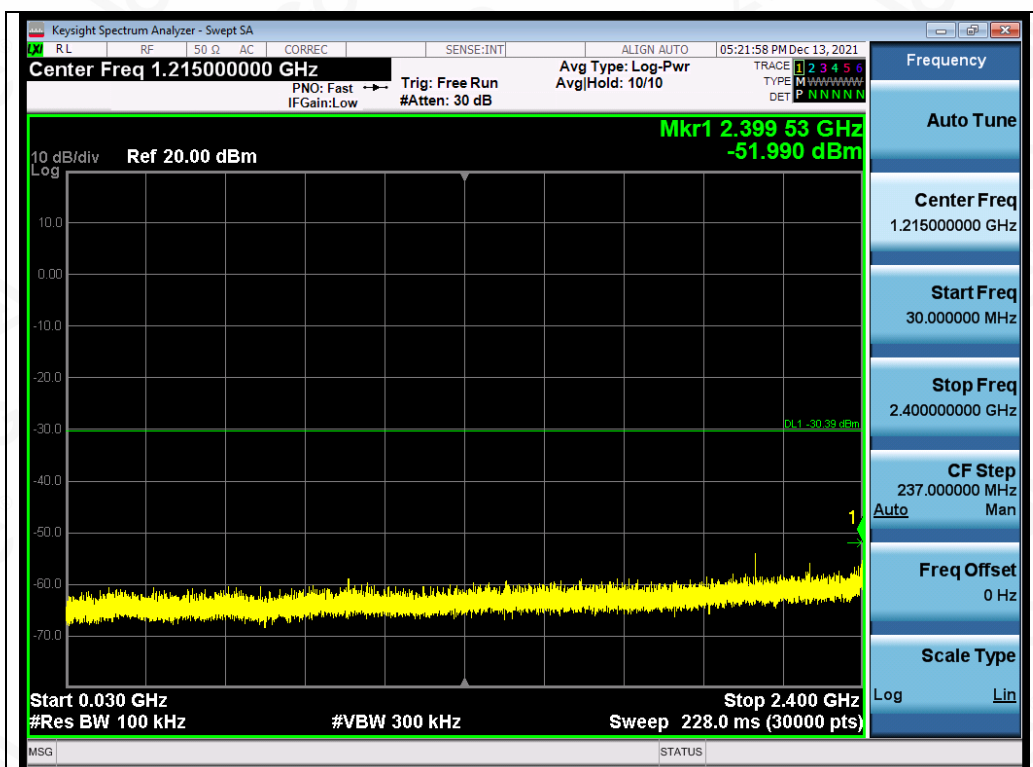


Test_Graph_802.11n40_ANT2_2422_MCS0_Higher Band Emissions

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Test_Graph_802.11n40_ANT2_2437_MCS0_Lower Band Emissions

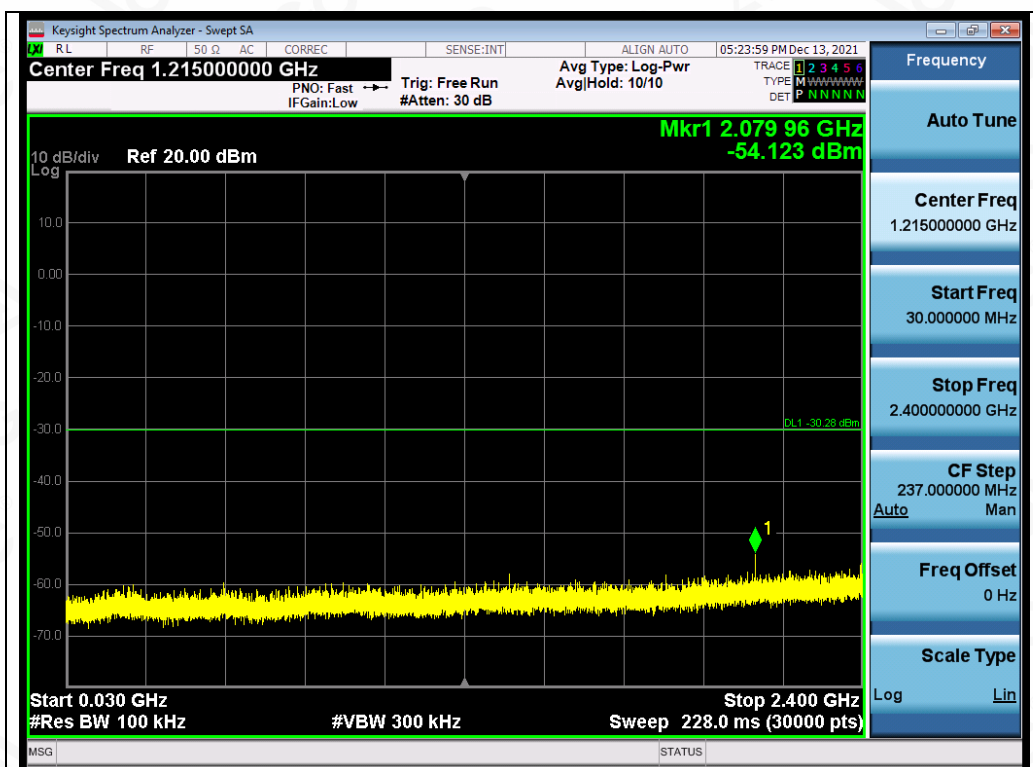


Test_Graph_802.11n40_ANT2_2437_MCS0_Higher Band Emissions

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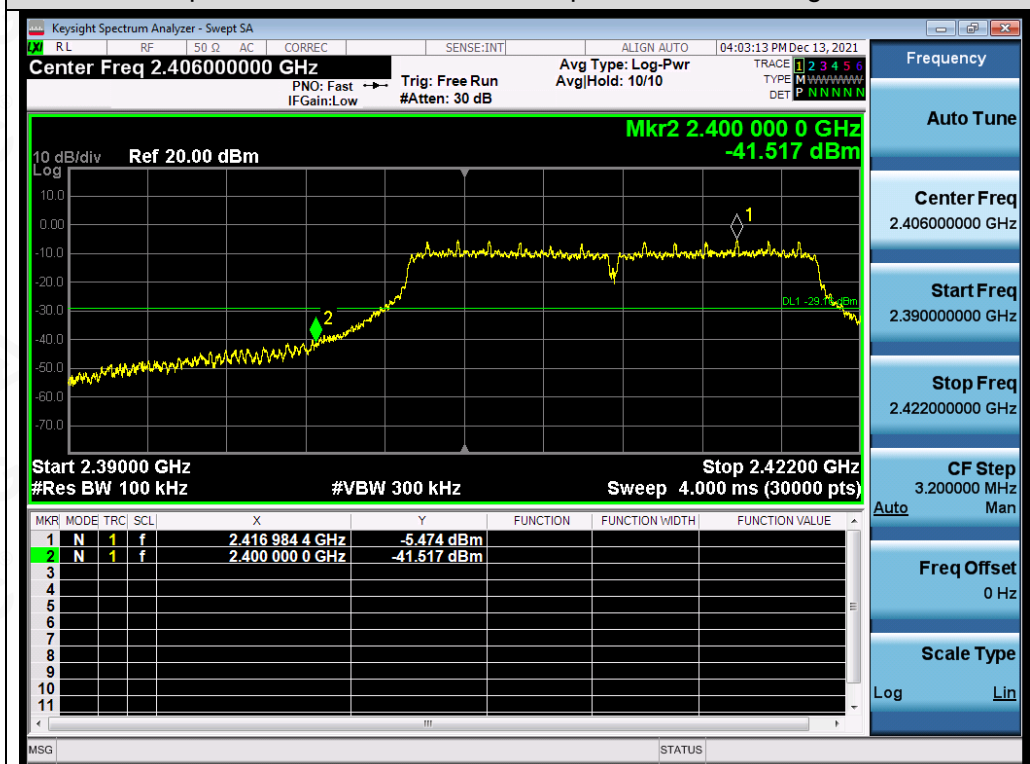
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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Edge Emissions

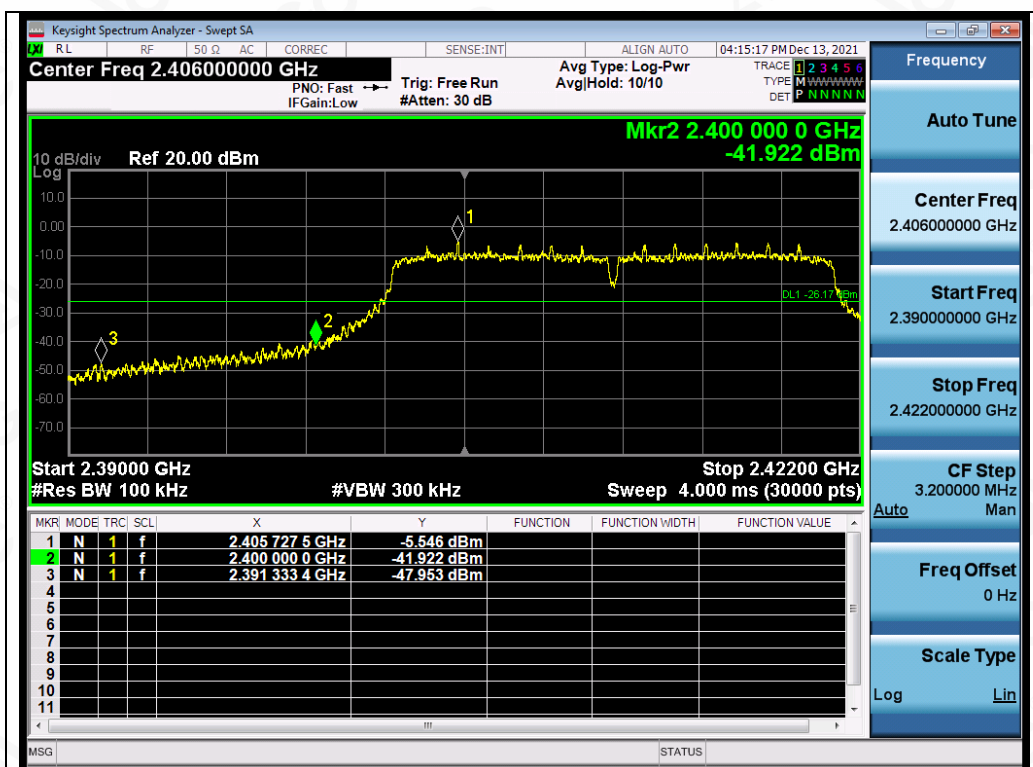


Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions

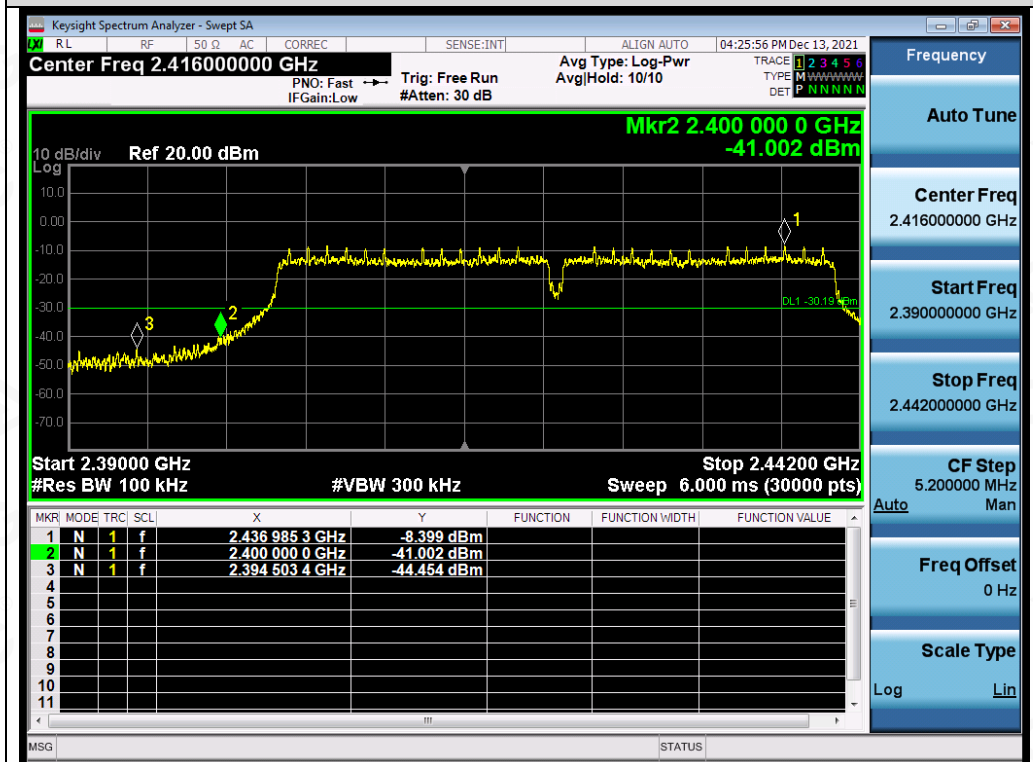
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Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Edge Emissions

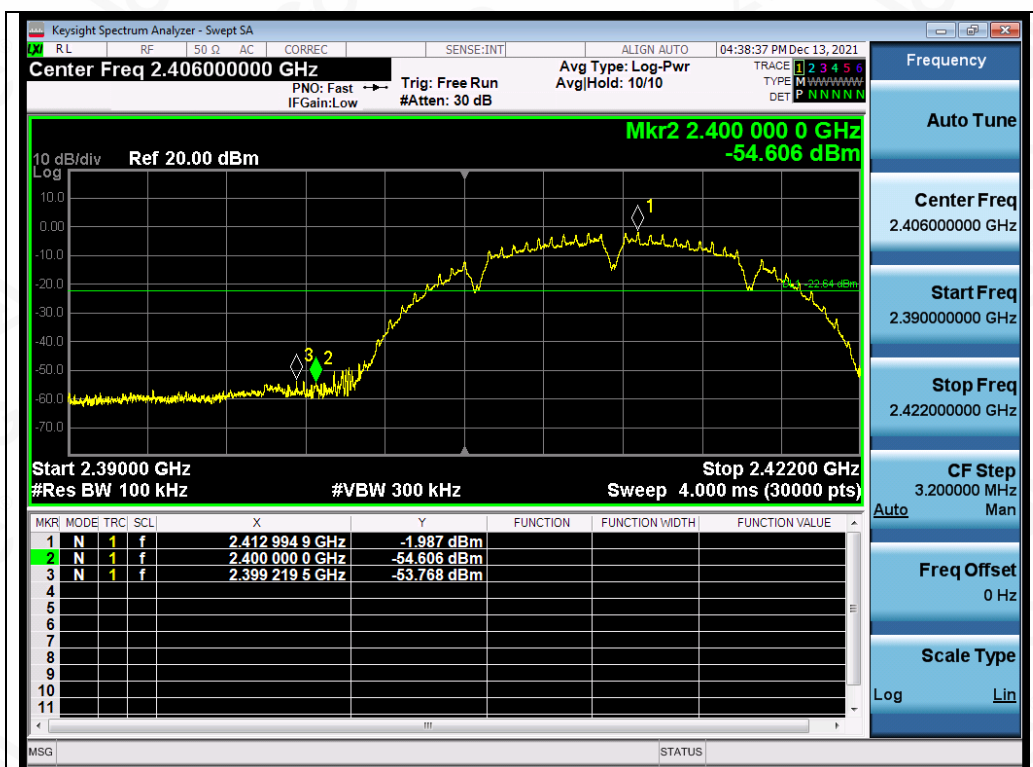


Test_Graph_802.11n40_ANT1_2422_MCS0_Lower Band Edge Emissions

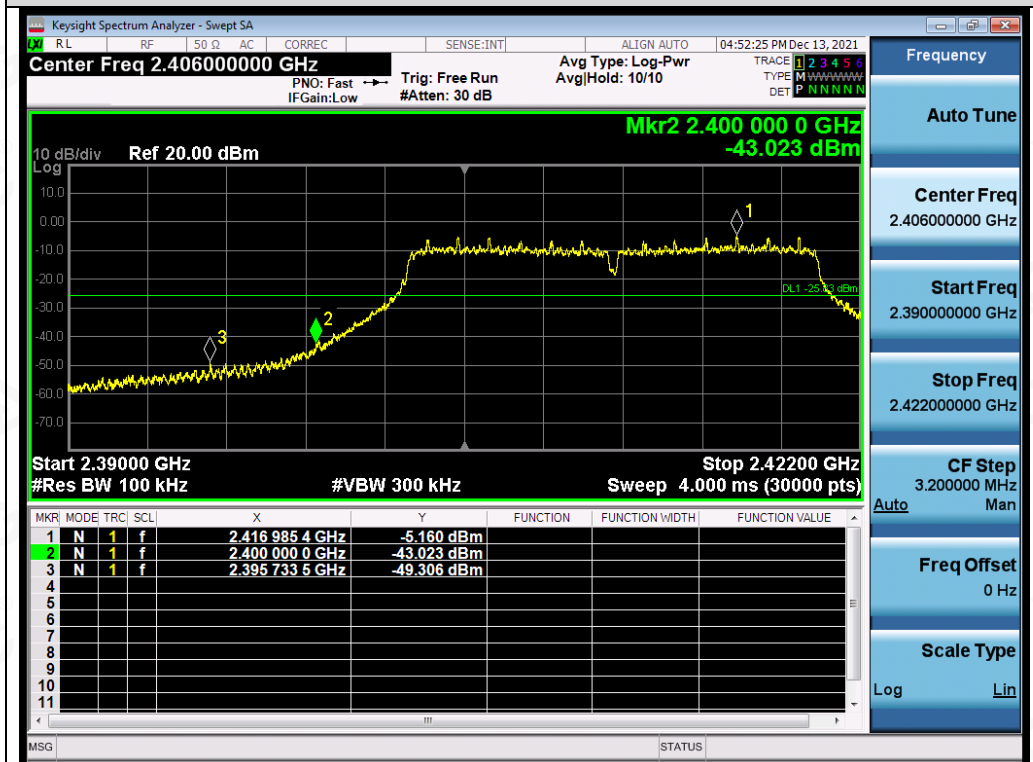
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Test_Graph_802.11b_ANT2_2412_1Mbps_Lower Band Edge Emissions

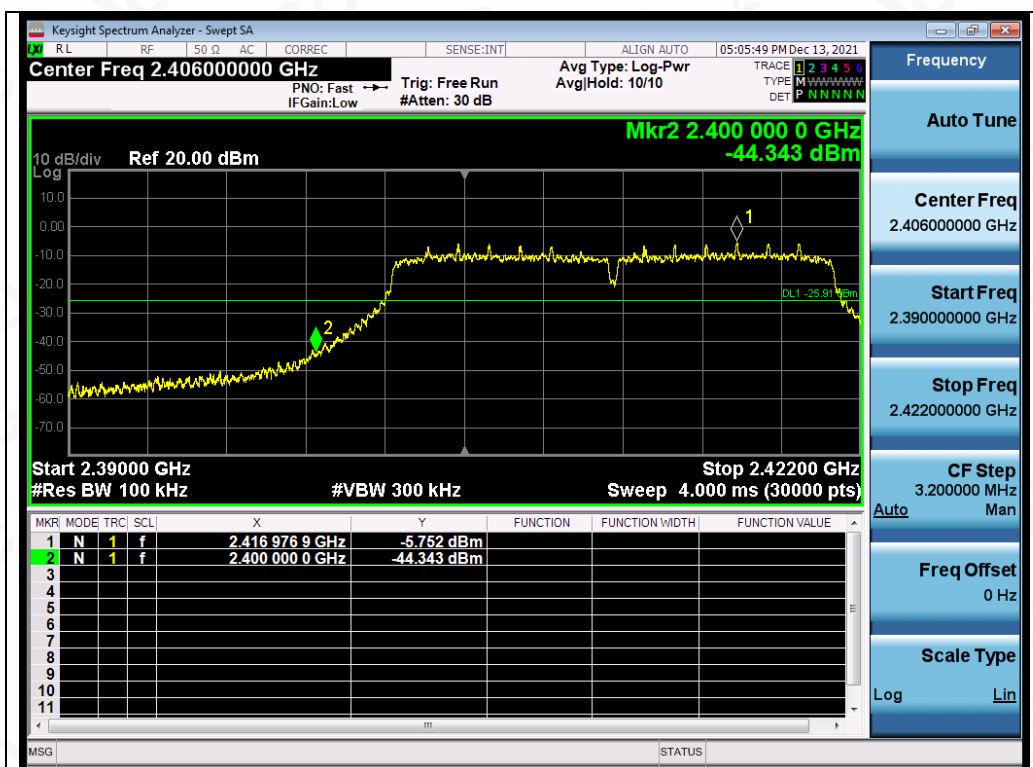


Test_Graph_802.11g_ANT2_2412_6Mbps_Lower Band Edge Emissions

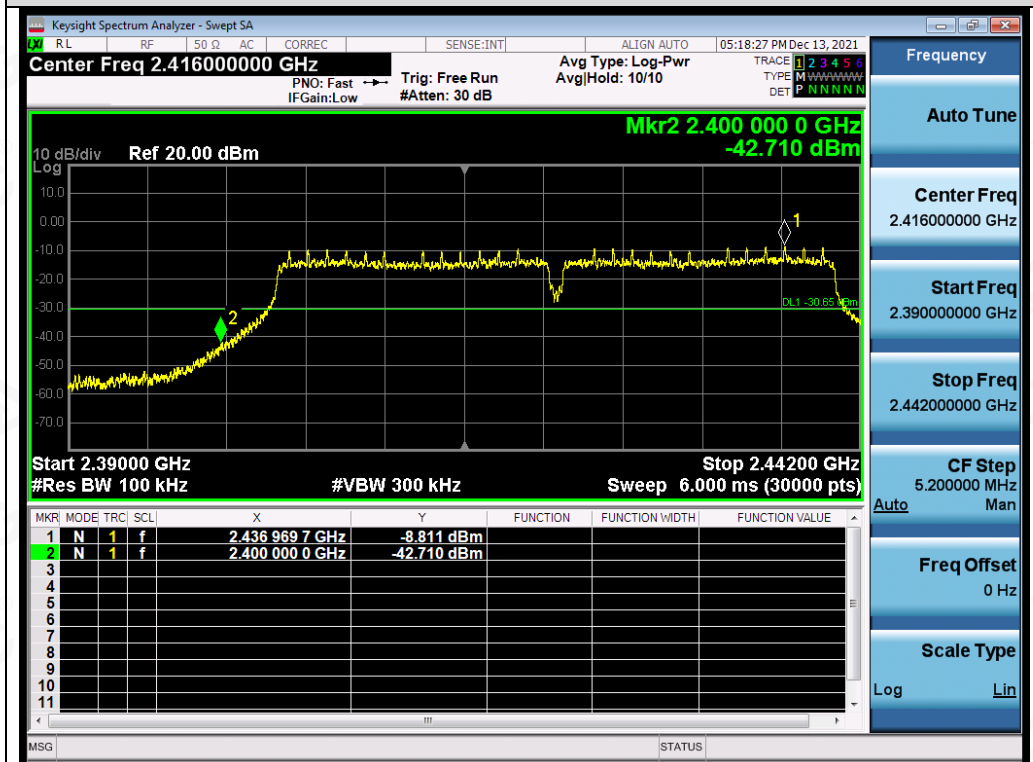
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Test_Graph_802.11n20_ANT2_2412_MCS0_Lower Band Edge Emissions



Test_Graph_802.11n40_ANT2_2422_MCS0_Lower Band Edge Emissions

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Note:

1. Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.
2. All the antennas have been pre-tested, and all modes of each antenna are tested. The In 802.11b, 802.11g mode antenna 2 is the worst case and recorded in the report; For 802.11n mode, the worst case Antenna 2 has more than 3dB margins, so the MIMO mode also compliance the limit.

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density-antenna 1					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-8.713	-16.952	≤ 8	Pass
	2437	-8.250	-16.489	≤ 8	Pass
	2462	-9.259	-17.498	≤ 8	Pass
802.11g	2412	-11.837	-20.076	≤ 8	Pass
	2437	-11.964	-20.203	≤ 8	Pass
	2462	-12.448	-20.687	≤ 8	Pass
802.11n20	2412	-11.471	-19.71	≤ 8	Pass
	2437	-11.511	-19.75	≤ 8	Pass
	2462	-12.019	-20.258	≤ 8	Pass
802.11n40	2422	-14.127	-22.366	≤ 8	Pass
	2437	-14.087	-22.326	≤ 8	Pass
	2452	-14.199	-22.438	≤ 8	Pass

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Test Data of Conducted Output Power Spectral Density-antenna 2					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-6.988	-15.227	≤ 8	Pass
	2437	-7.219	-15.458	≤ 8	Pass
	2462	-7.050	-15.289	≤ 8	Pass
802.11g	2412	-11.120	-19.359	≤ 8	Pass
	2437	-11.739	-19.978	≤ 8	Pass
	2462	-11.437	-19.676	≤ 8	Pass
802.11n20	2412	-11.728	-19.967	≤ 8	Pass
	2437	-11.406	-19.645	≤ 8	Pass
	2462	-11.709	-19.948	≤ 8	Pass
802.11n40	2422	-13.819	-22.058	≤ 8	Pass
	2437	-13.672	-21.911	≤ 8	Pass
	2452	-13.634	-21.873	≤ 8	Pass

Test Data of Conducted Output Power Spectral Density-antenna 1+2					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11n20	2412	-8.59	-16.83	≤ 8	Pass
	2437	-8.45	-16.69	≤ 8	Pass
	2462	-8.85	-17.09	≤ 8	Pass
802.11n40	2422	-10.96	-19.20	≤ 8	Pass
	2437	-10.86	-19.10	≤ 8	Pass
	2452	-10.90	-19.14	≤ 8	Pass

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) – 10*log(20/3).

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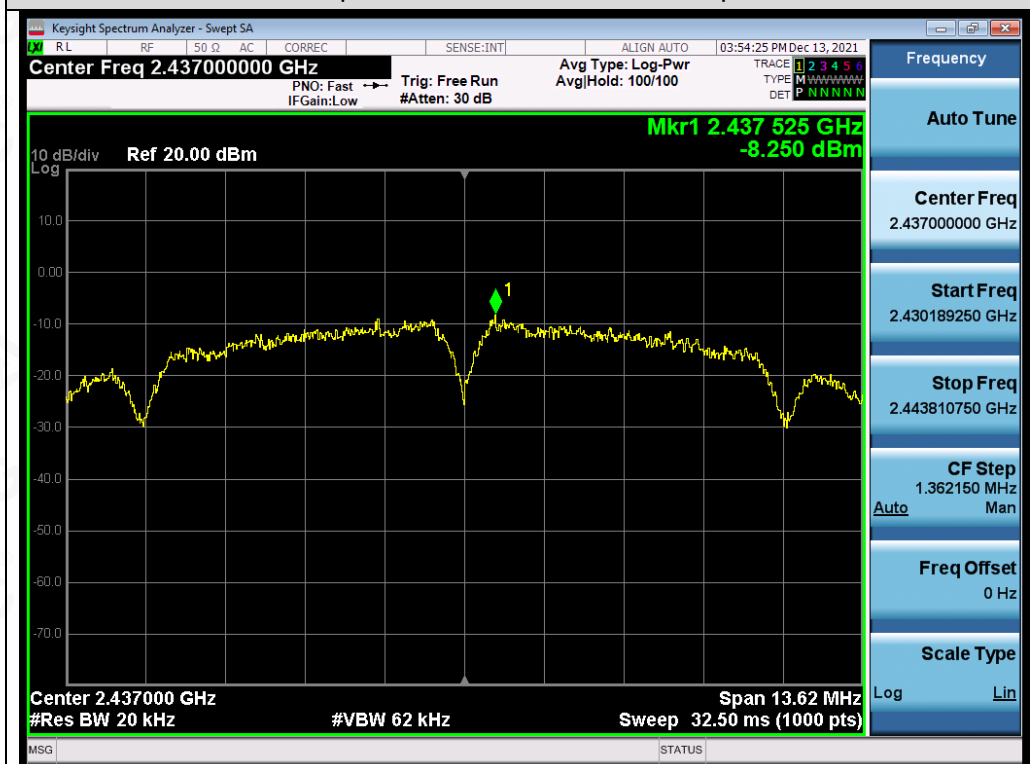
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Test Graphs of Conducted Output Power Spectral Density



Test_Graph_802.11b_ANT1_2412_1Mbps_PSD

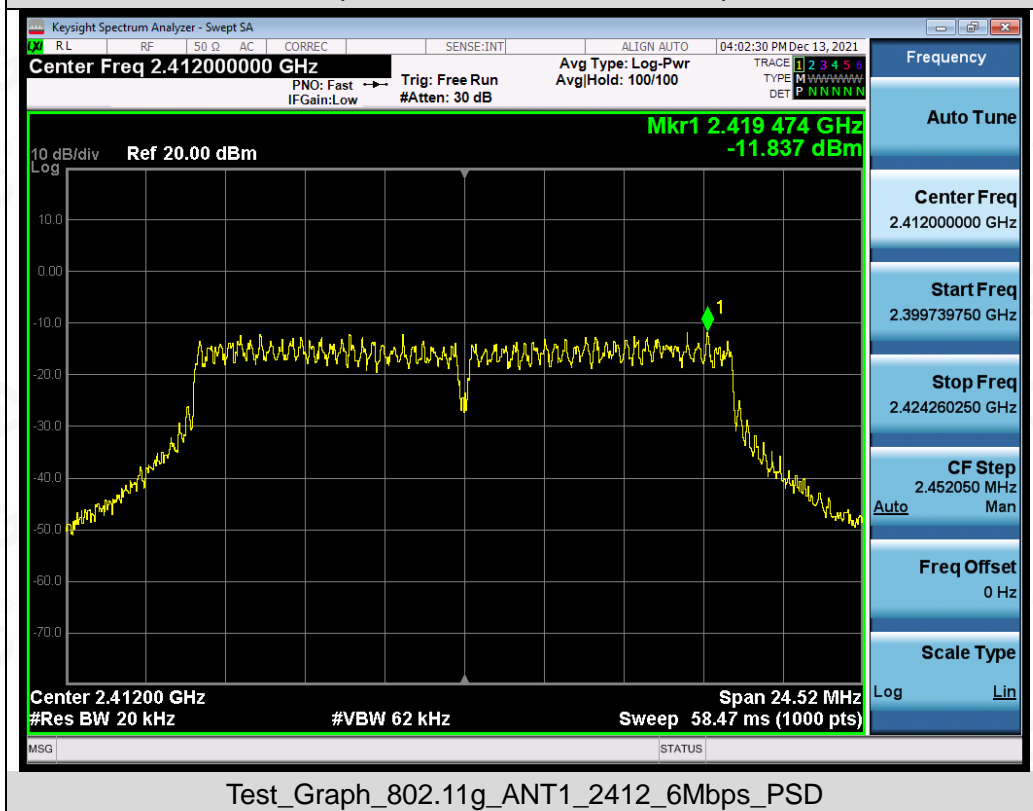


Test_Graph_802.11b_ANT1_2437_1Mbps_PSD

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