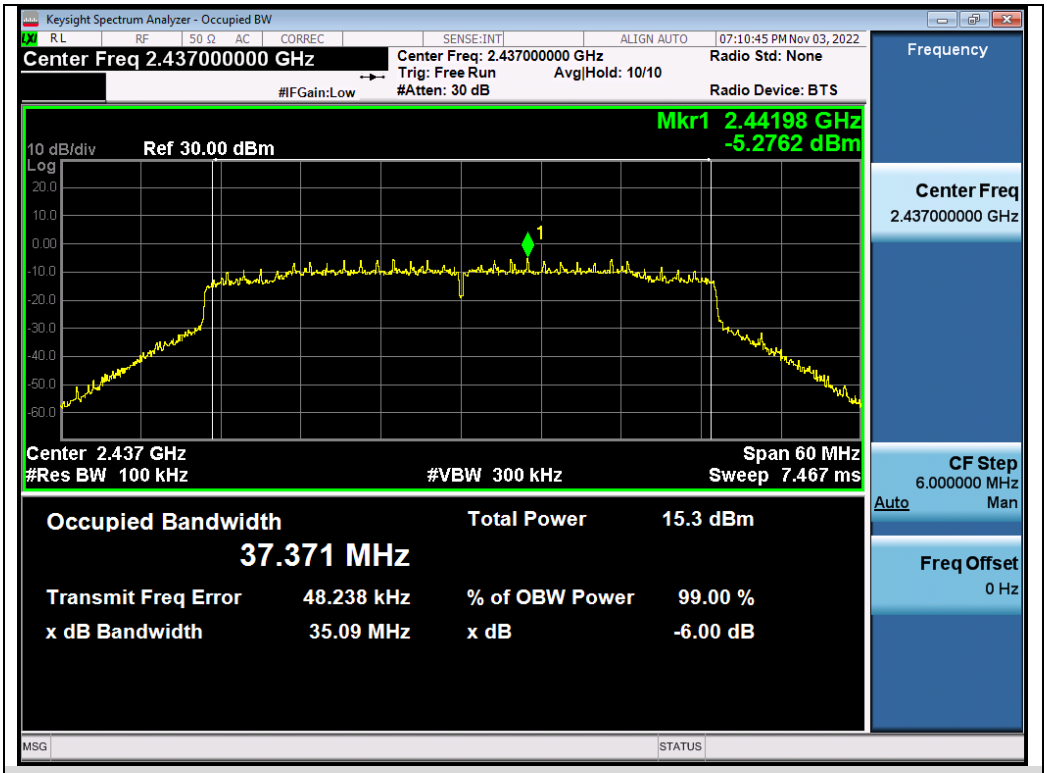

Test_Graph_802.11ax40_ANT1_2437_MCS0_DTSBW

Test_Graph_802.11ax40_ANT1_2452_MCS0_DTSBW

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9. CONDUCTED SPURIOUS EMISSION

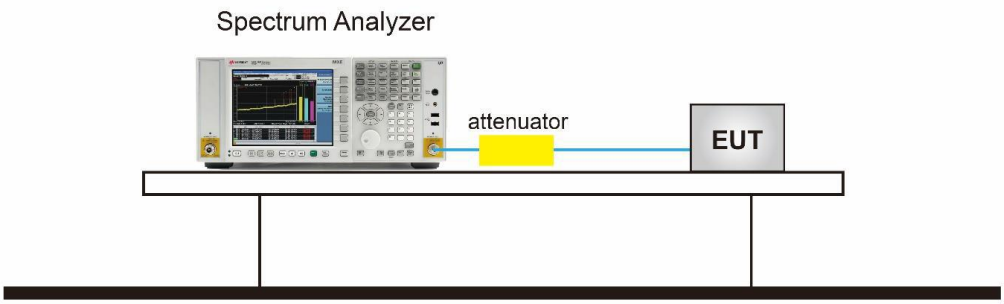
9.1 MEASUREMENT LIMIT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	**Measurement Result**	
	Test Data	**Criteria**
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

9.2 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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
4. RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.(Test frequency below 1GHz)
5. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = peak.(Test frequency Above 1GHz)
6. Set SPA Trace 1 Max hold, then View.
7. Mark the maximum useless stray point and compare it with the limit value to record the result.

9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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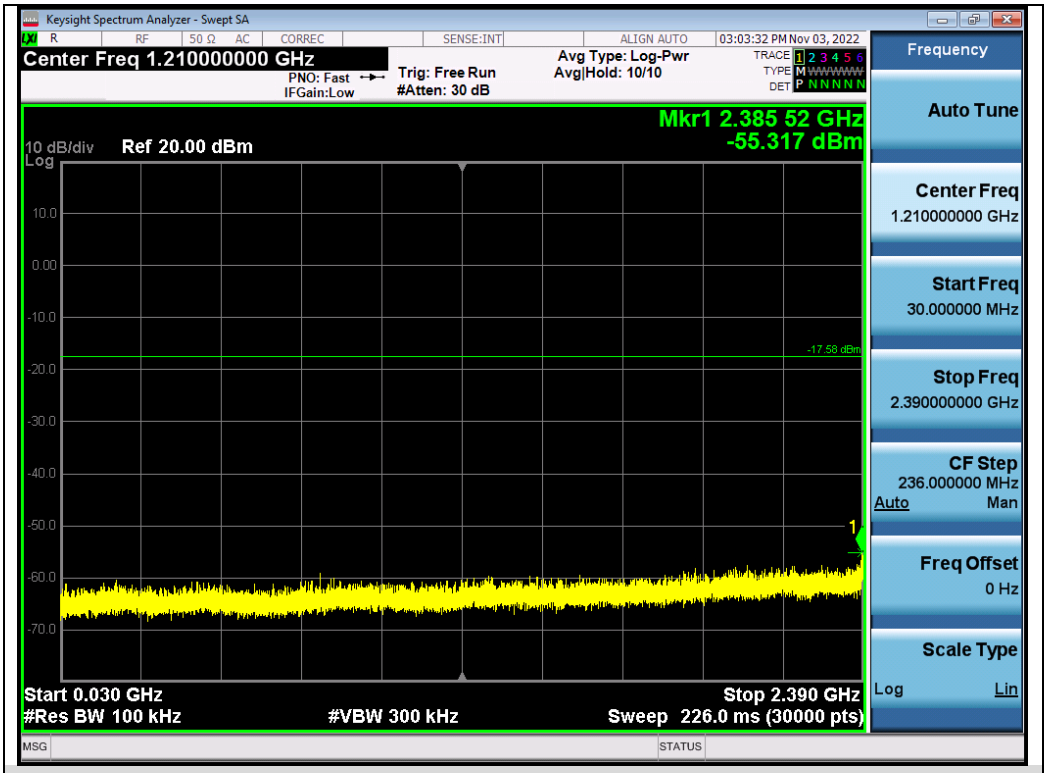
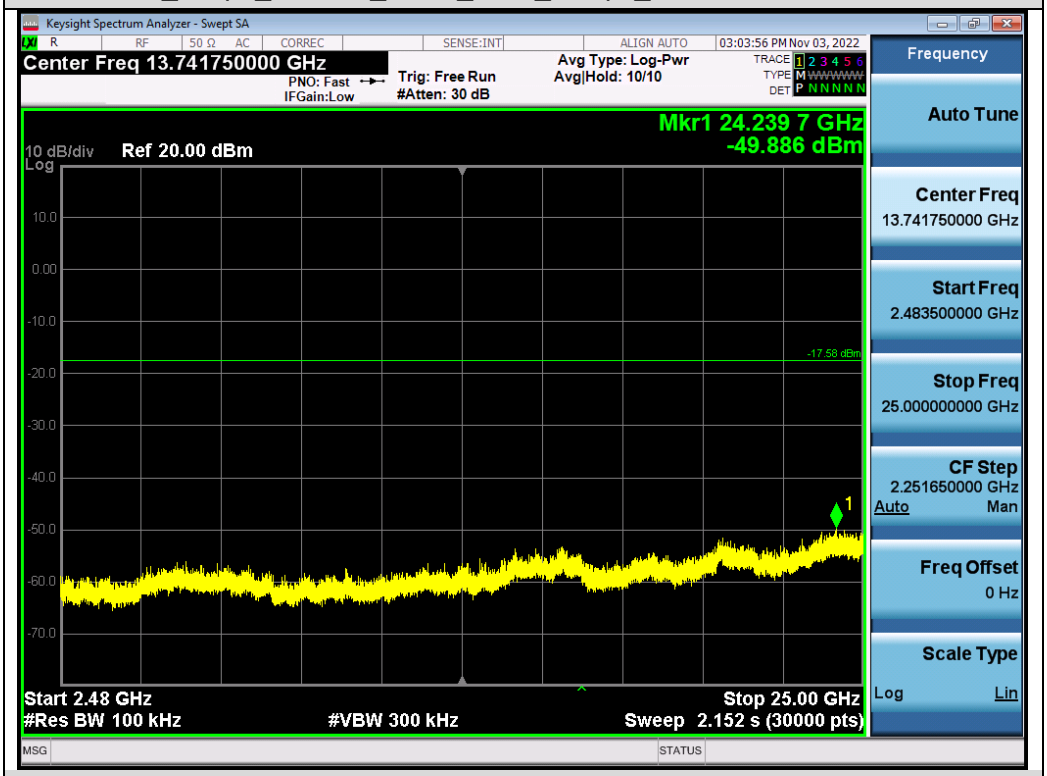
9.4 MEASUREMENT RESULTS

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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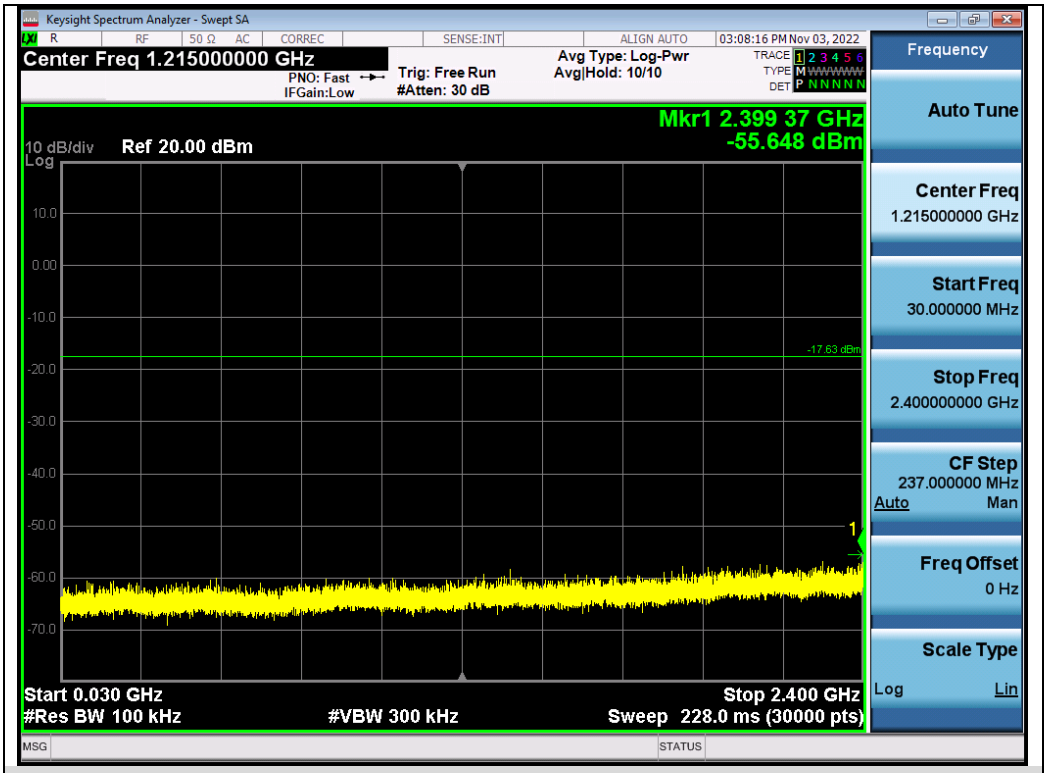

Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions

Test_Graph_802.11b_ANT1_2437_1Mbps_Higher Band Emissions

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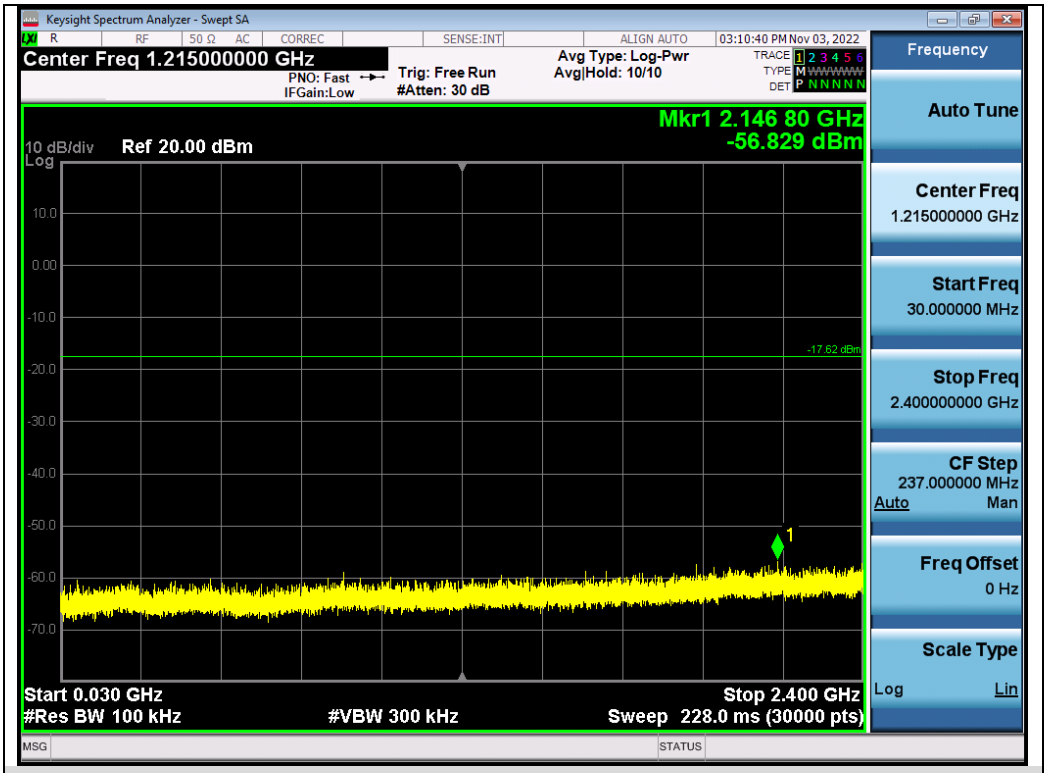

Test_Graph_802.11b_ANT1_2462_1Mbps_Lower Band Emissions

Test_Graph_802.11b_ANT1_2462_1Mbps_Higher Band Emissions

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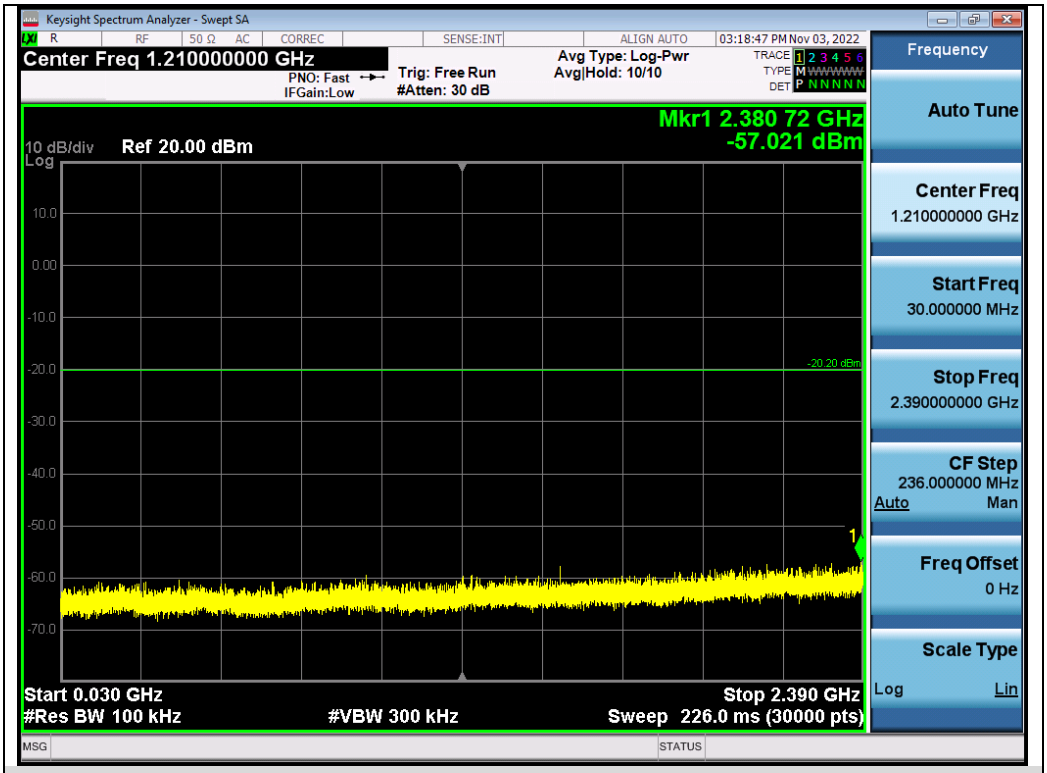

Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Emissions

Test_Graph_802.11g_ANT1_2412_6Mbps_Higher Band Emissions

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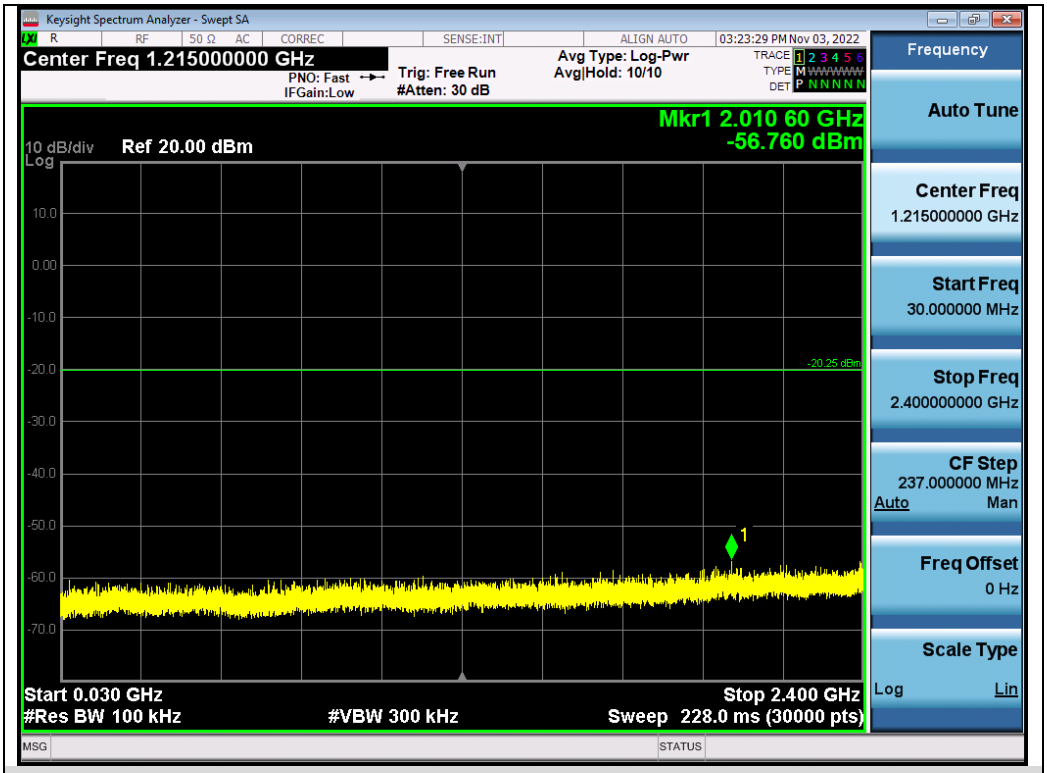

Test_Graph_802.11g_ANT1_2437_6Mbps_Lower Band Emissions

Test_Graph_802.11g_ANT1_2437_6Mbps_Higher Band Emissions

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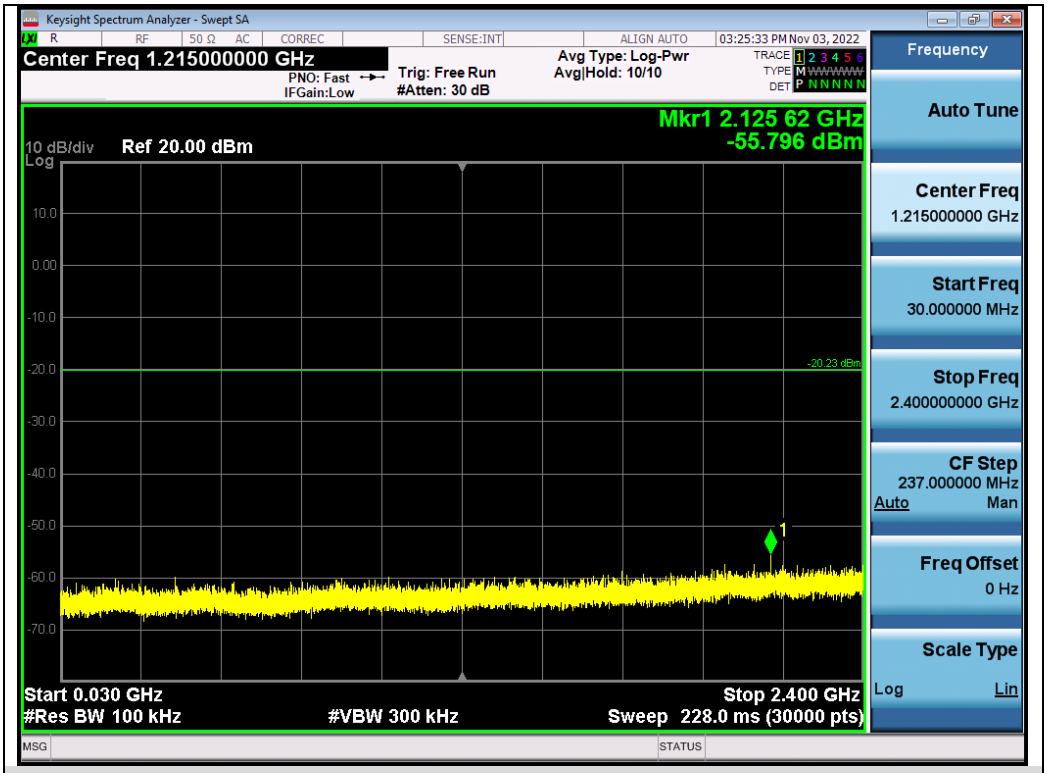

Test_Graph_802.11g_ANT1_2462_6Mbps_Lower Band Emissions

Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

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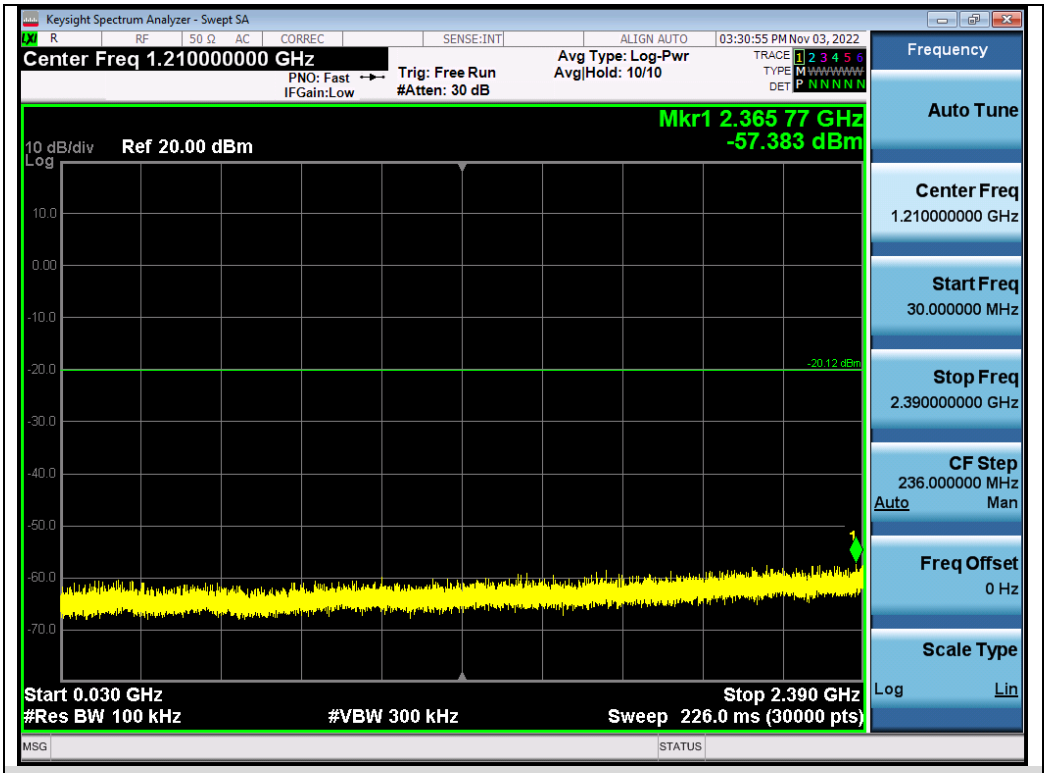

Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Emissions

Test_Graph_802.11n20_ANT1_2412_MCS0_Higher Band Emissions

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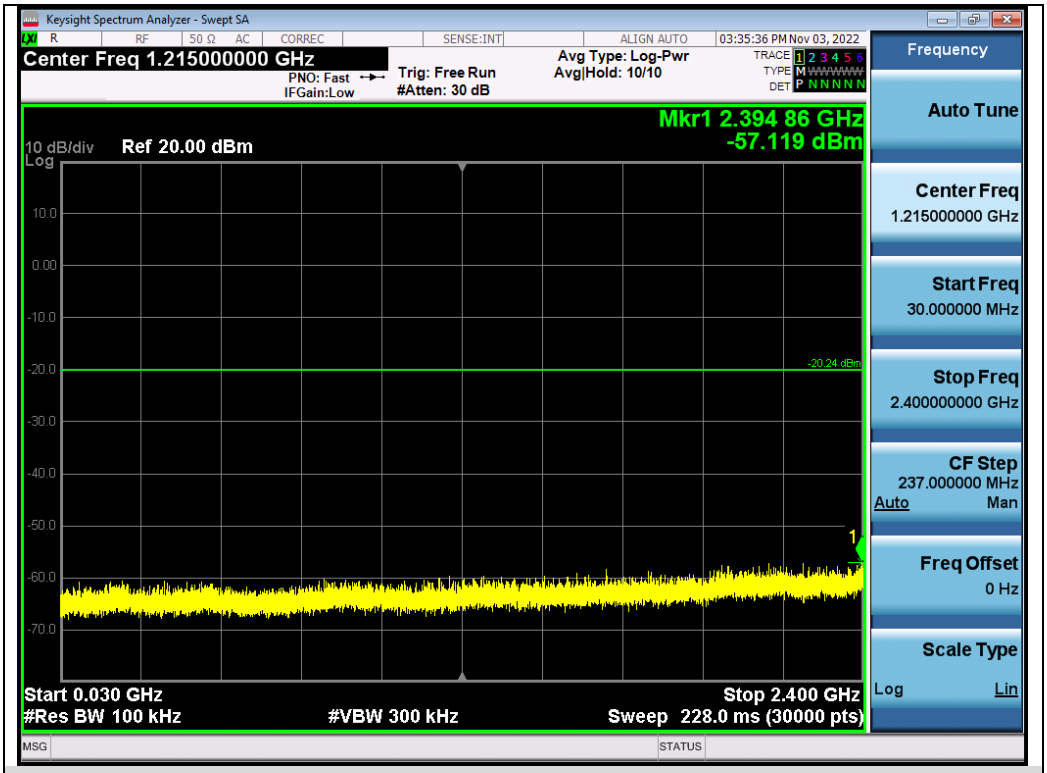

Test_Graph_802.11n20_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11n20_ANT1_2437_MCS0_Higher Band Emissions

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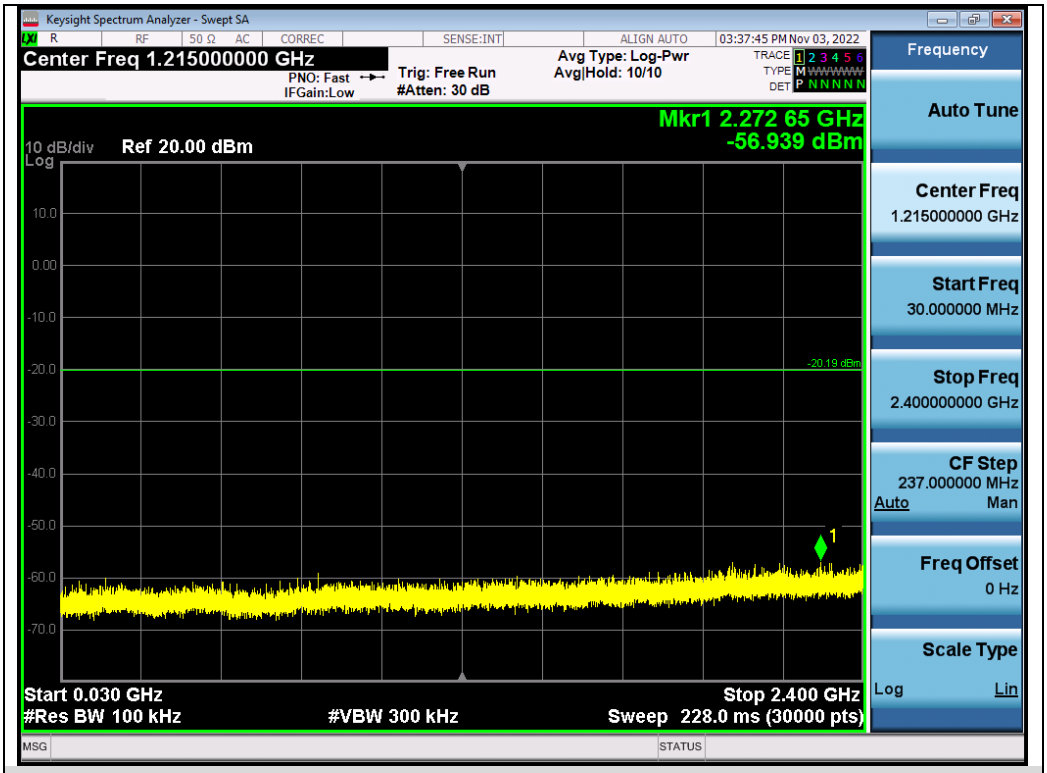

Test_Graph_802.11n20_ANT1_2462_MCS0_Lower Band Emissions

Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

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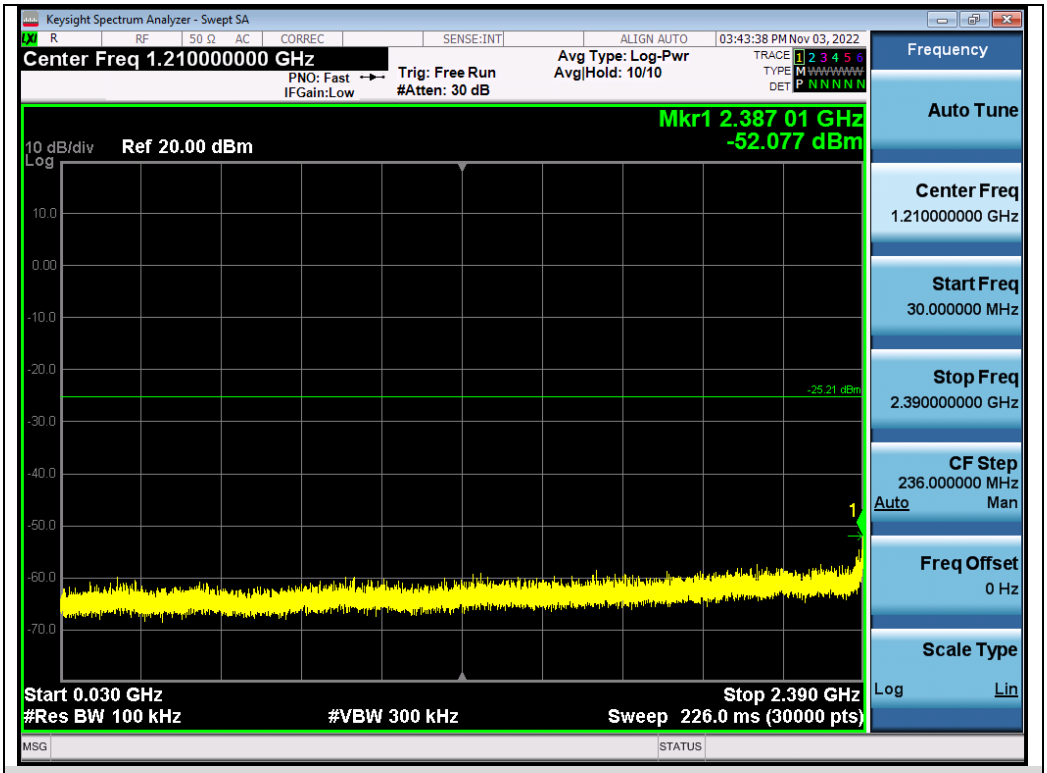

Test_Graph_802.11n40_ANT1_2422_MCS0_Lower Band Emissions

Test_Graph_802.11n40_ANT1_2422_MCS0_Higher Band Emissions

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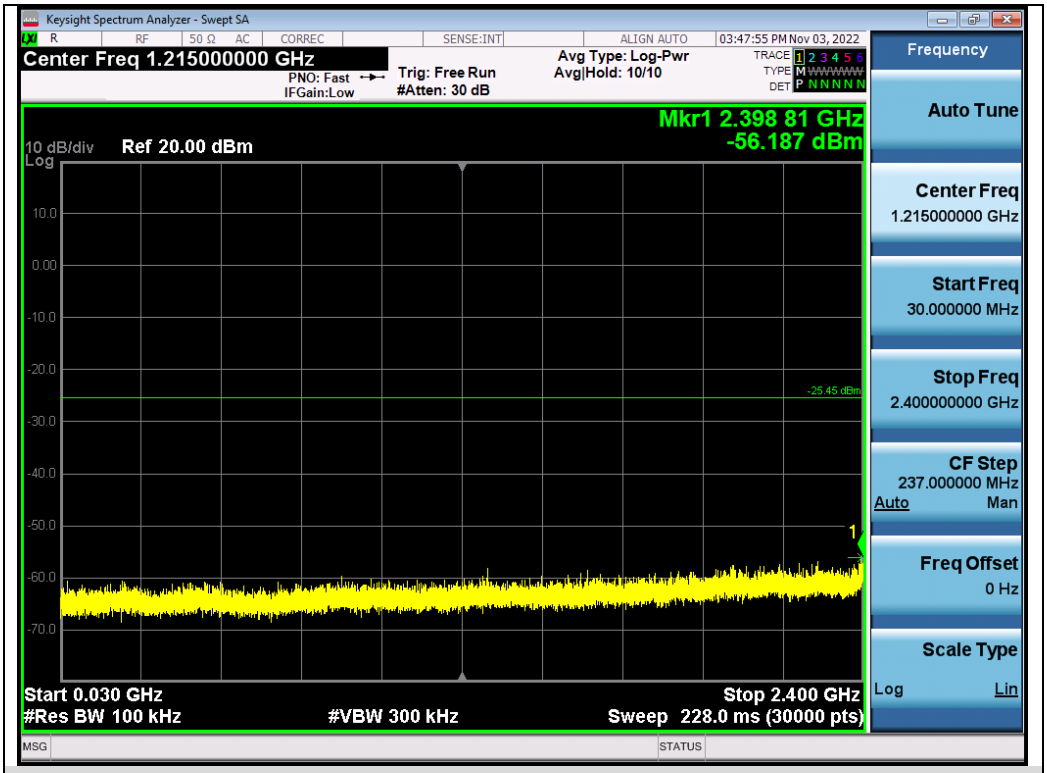

Test_Graph_802.11n40_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11n40_ANT1_2437_MCS0_Higher Band Emissions

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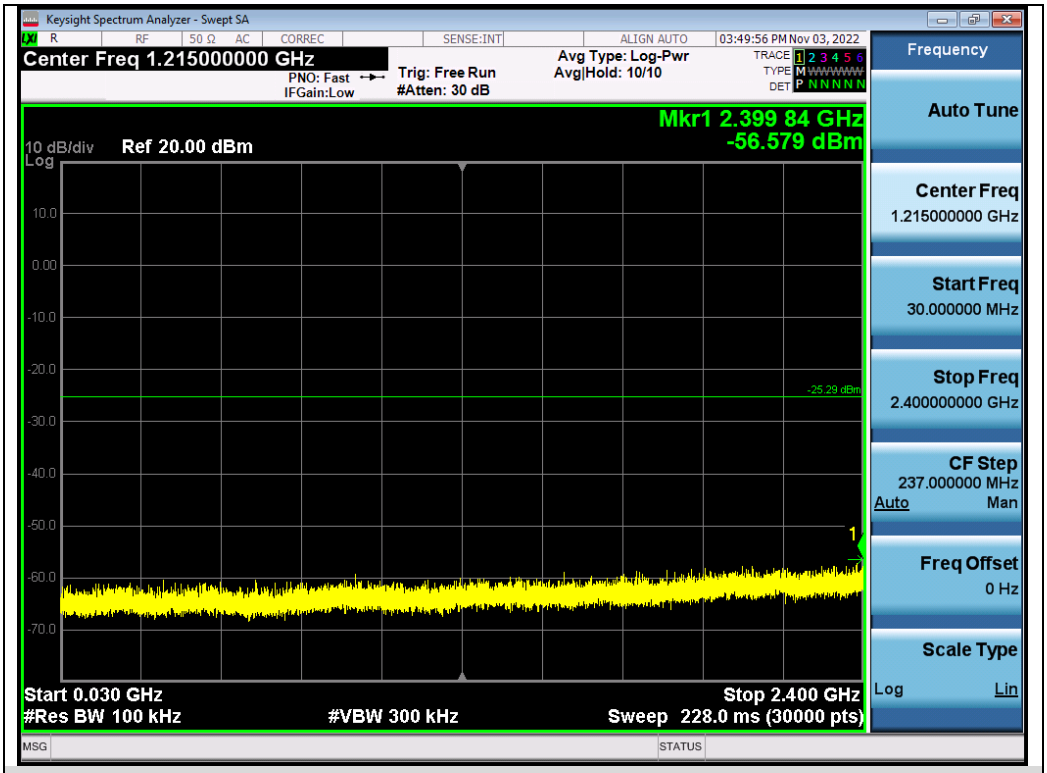

Test_Graph_802.11n40_ANT1_2452_MCS0_Lower Band Emissions

Test_Graph_802.11n40_ANT1_2452_MCS0_Higher Band Emissions

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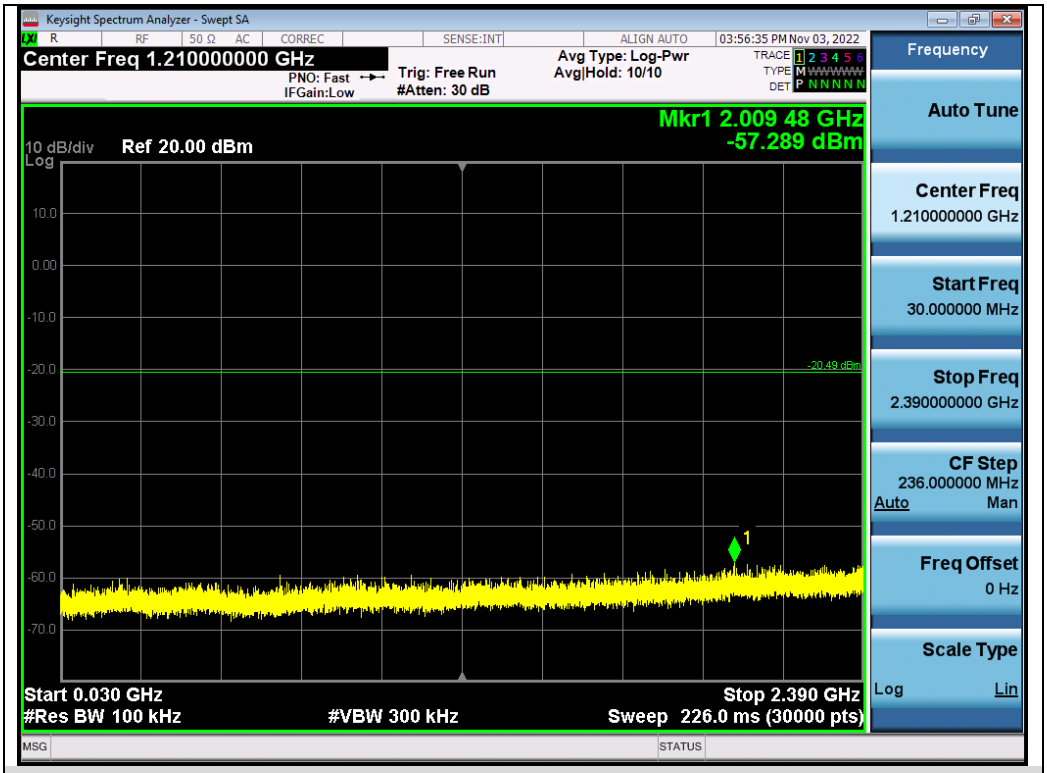

Test_Graph_802.11ax20_ANT1_2412_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_ANT1_2412_MCS0_Higher Band Emissions

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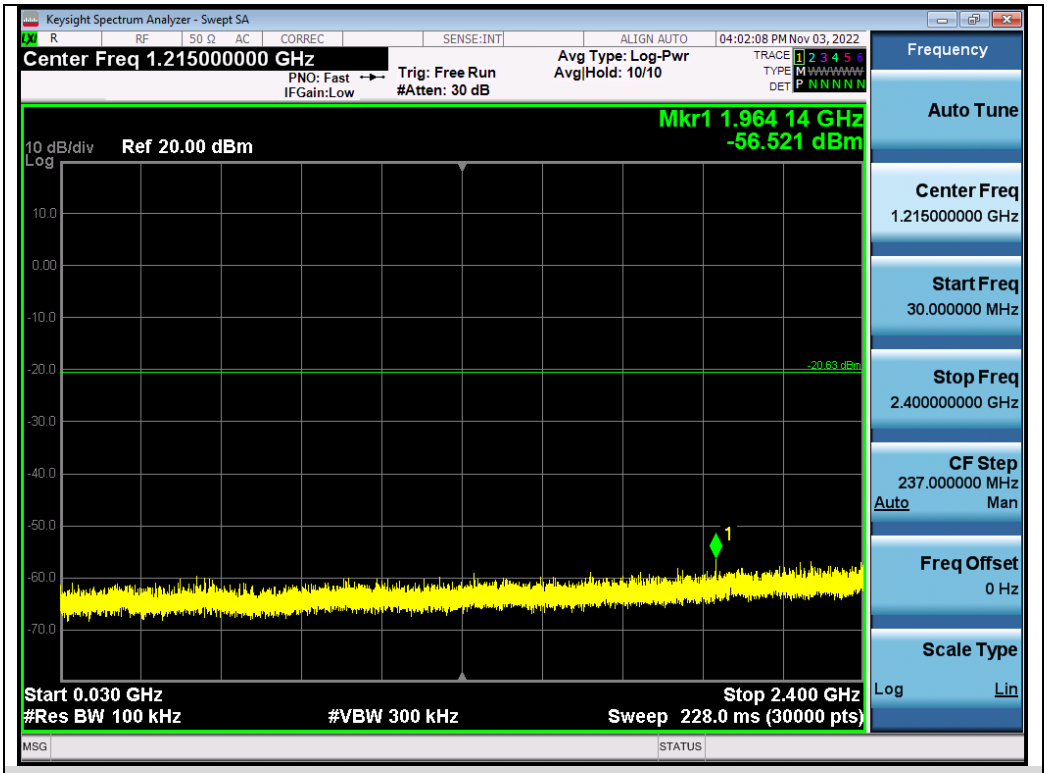

Test_Graph_802.11ax20_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_ANT1_2437_MCS0_Higher Band Emissions

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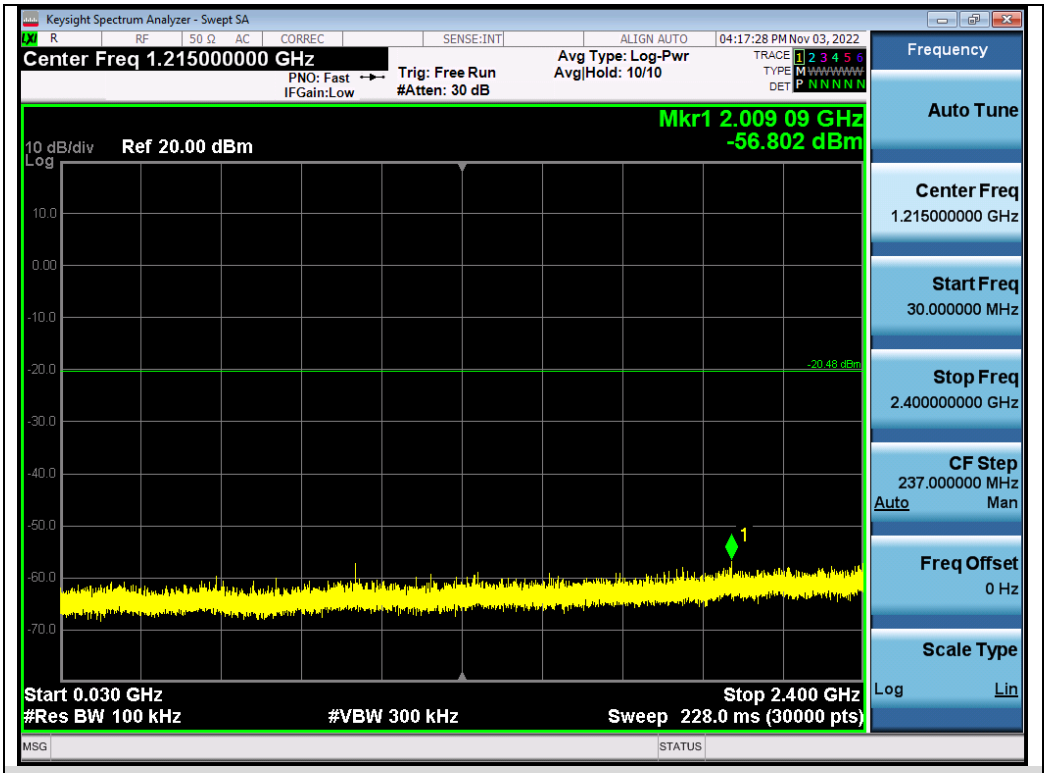

Test_Graph_802.11ax20_ANT1_2462_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_ANT1_2462_MCS0_Higher Band Emissions

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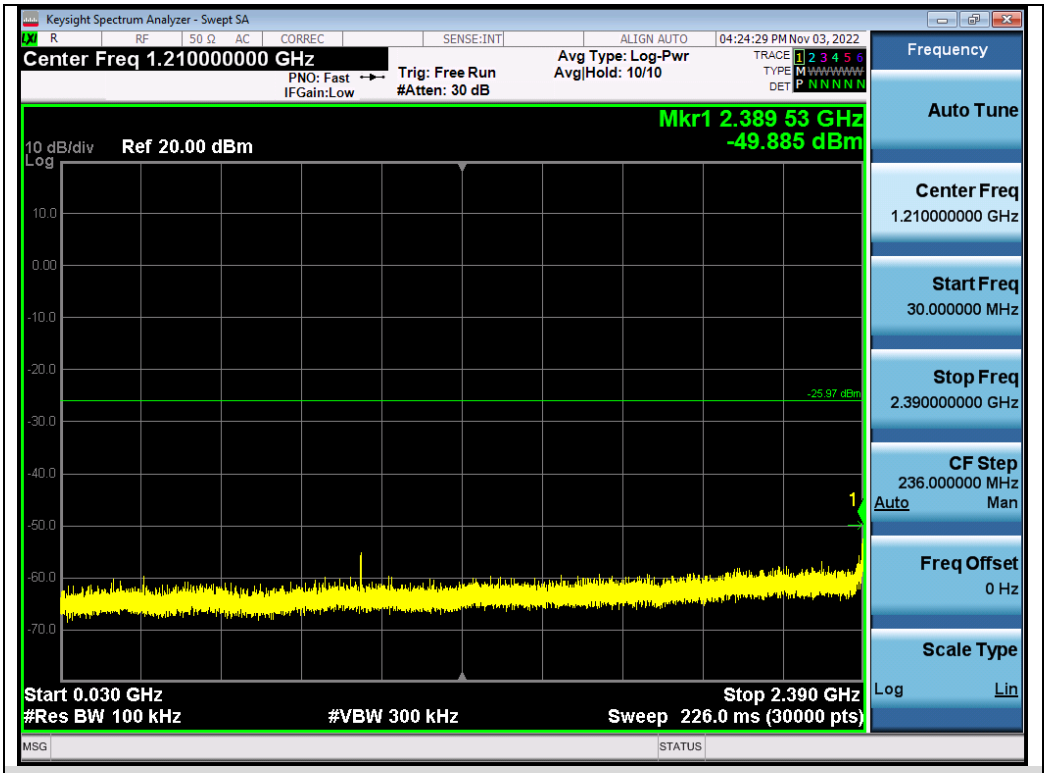

Test_Graph_802.11ax40_ANT1_2422_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_ANT1_2422_MCS0_Higher Band Emissions

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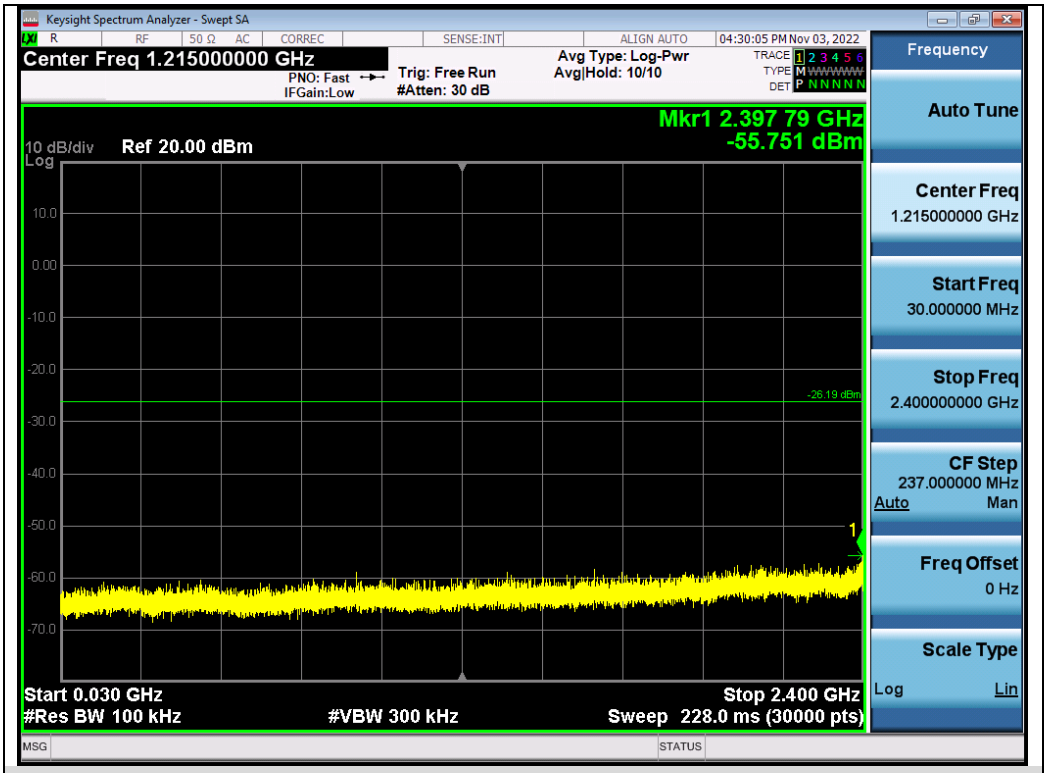

Test_Graph_802.11ax40_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_ANT1_2437_MCS0_Higher Band Emissions

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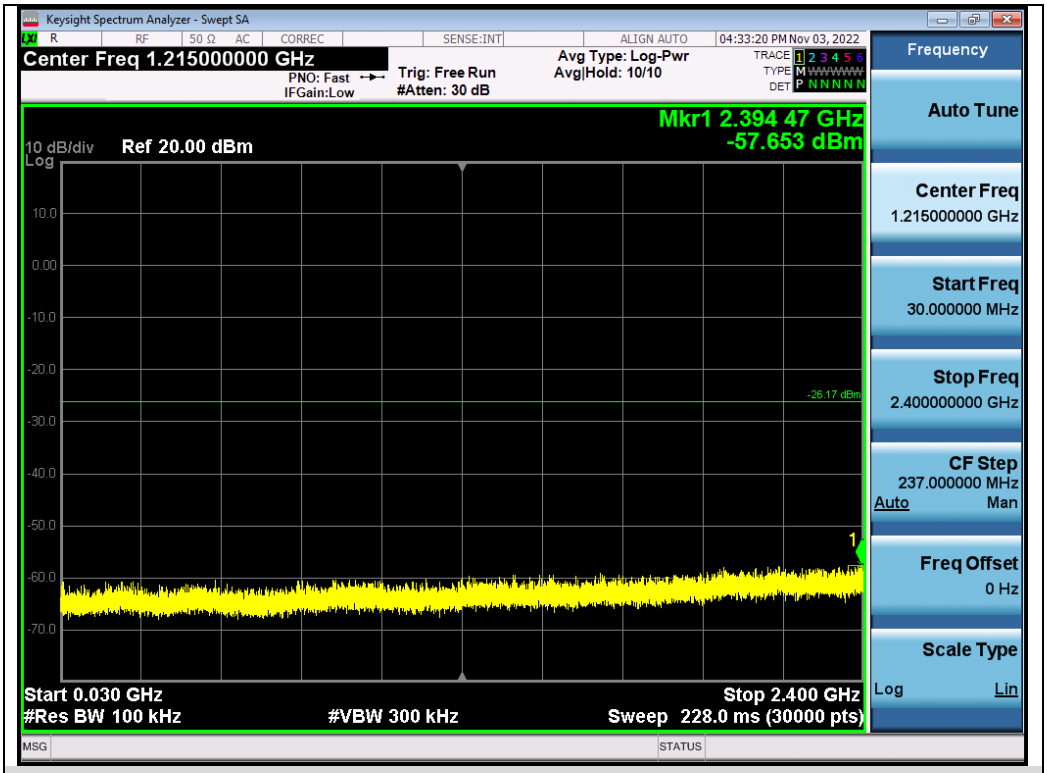
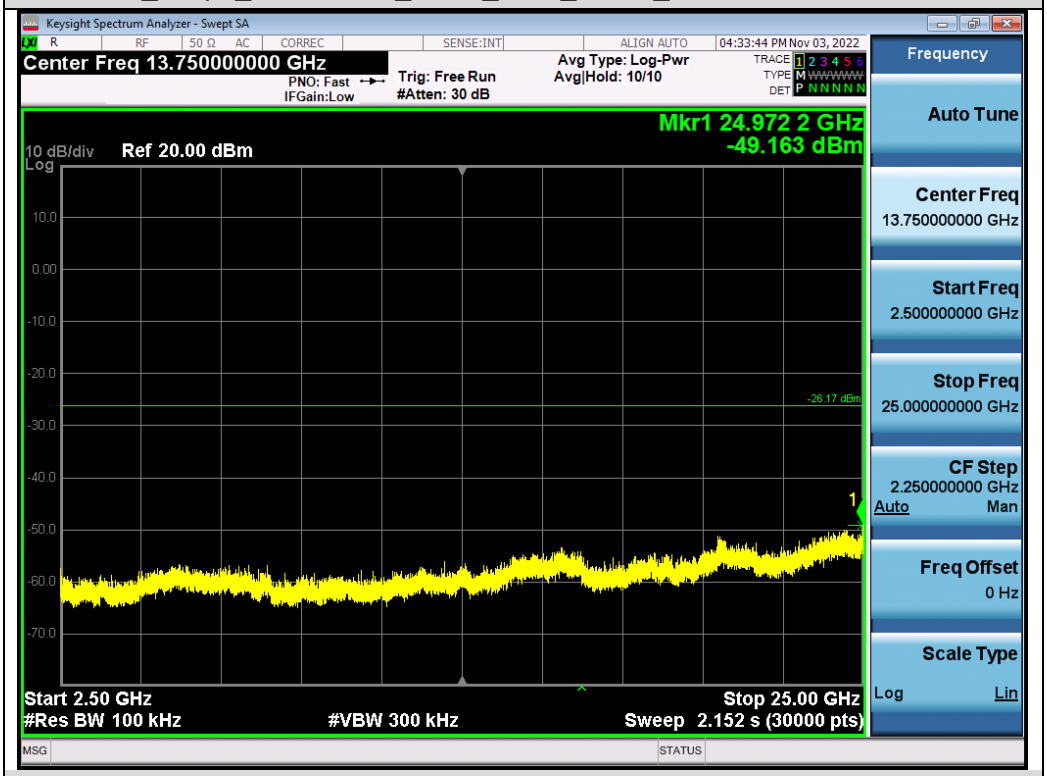


Test_Graph_802.11ax40_ANT1_2452_MCS0_Lower Band Emissions



Test_Graph_802.11ax40_ANT1_2452_MCS0_Higher Band Emissions

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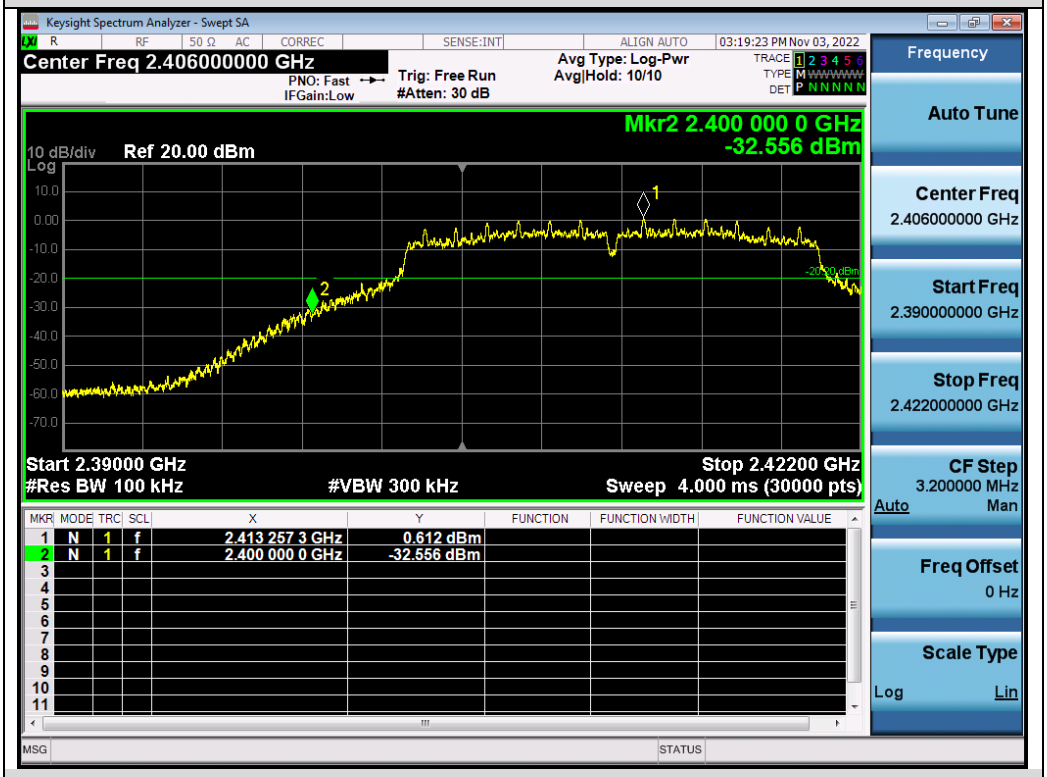
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

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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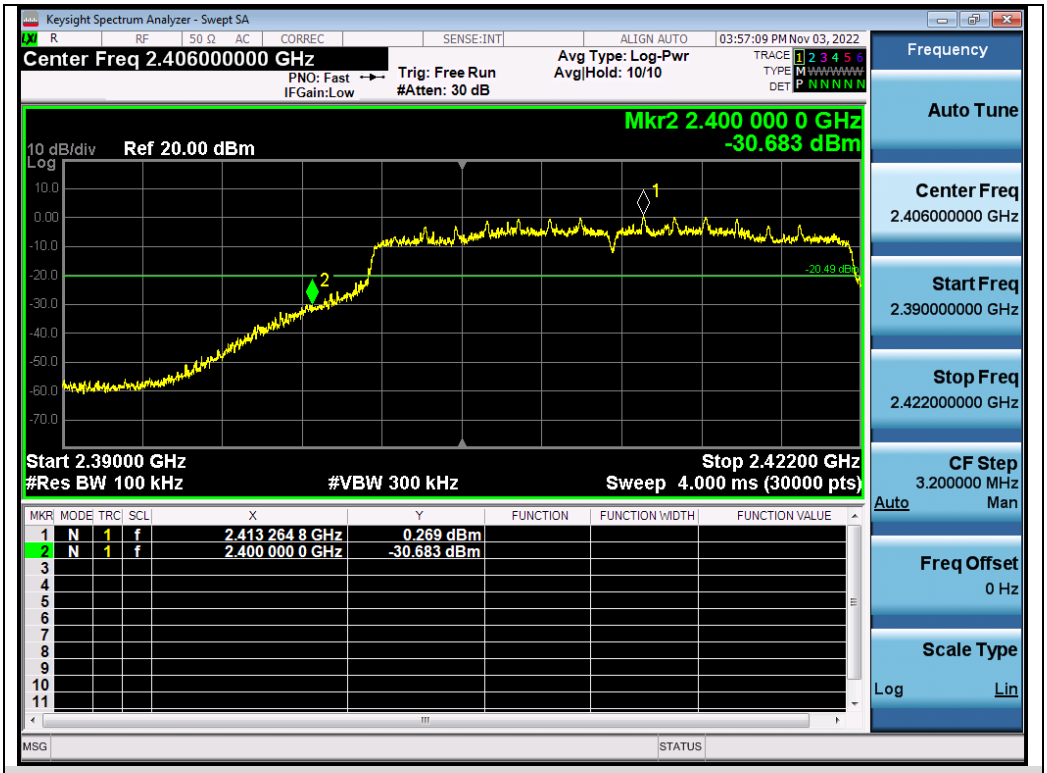

Test_Graph_802.11ax20_ANT1_2412_MCS0_Lower Band Edge Emissions

Test_Graph_802.11ax40_ANT1_2422_MCS0_Lower Band Edge Emissions

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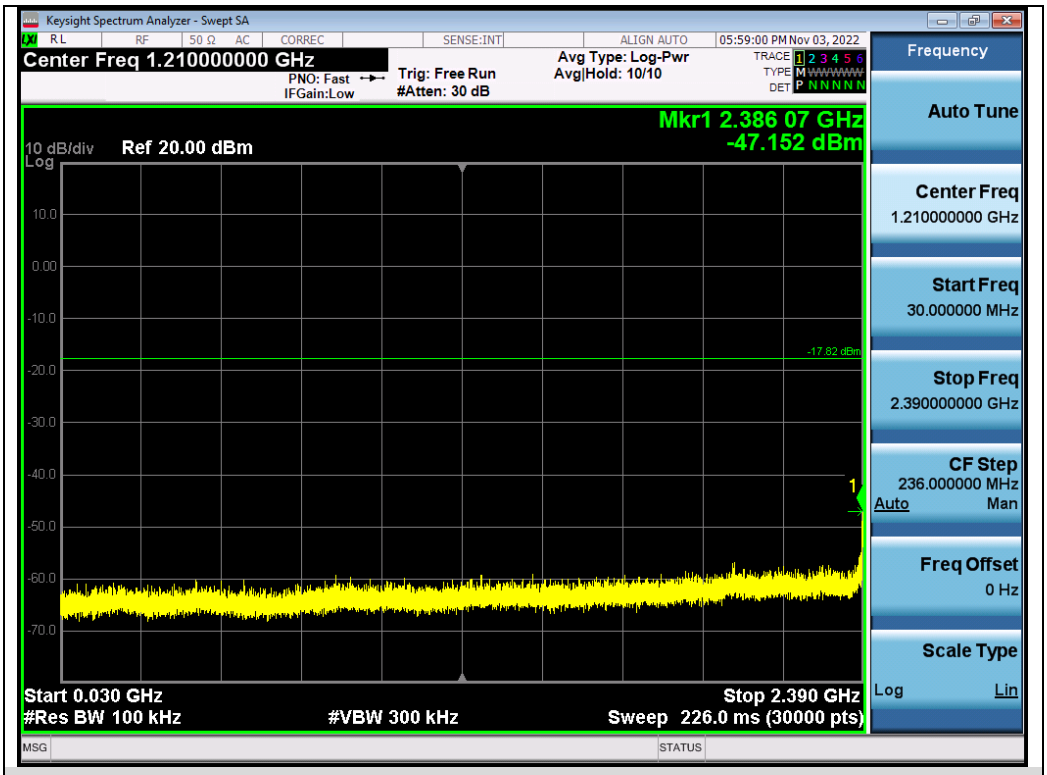
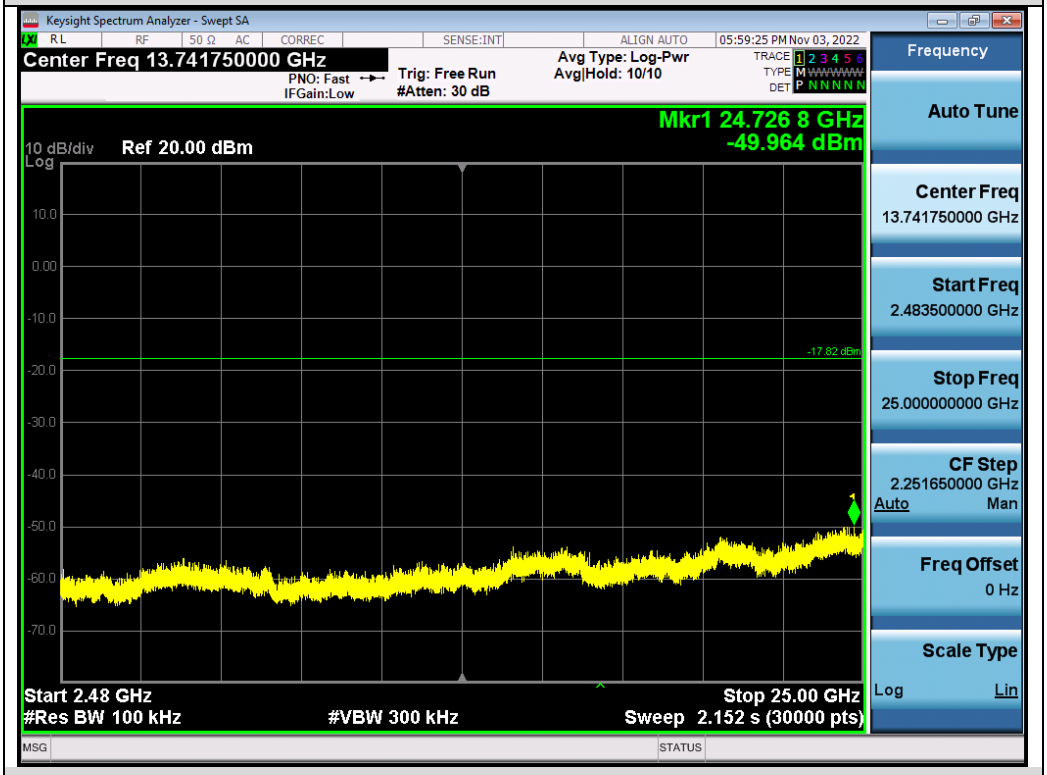
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands-ANT 2



Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Emissions



Test_Graph_802.11b_ANT1_2412_1Mbps_Higher Band Emissions

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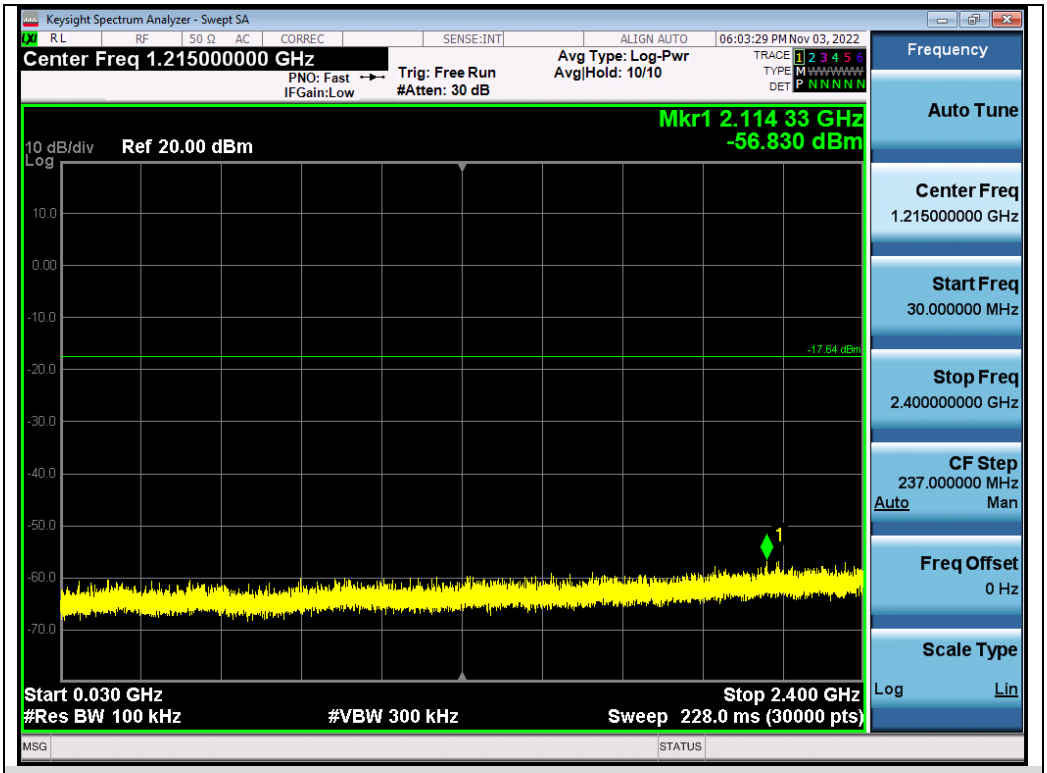
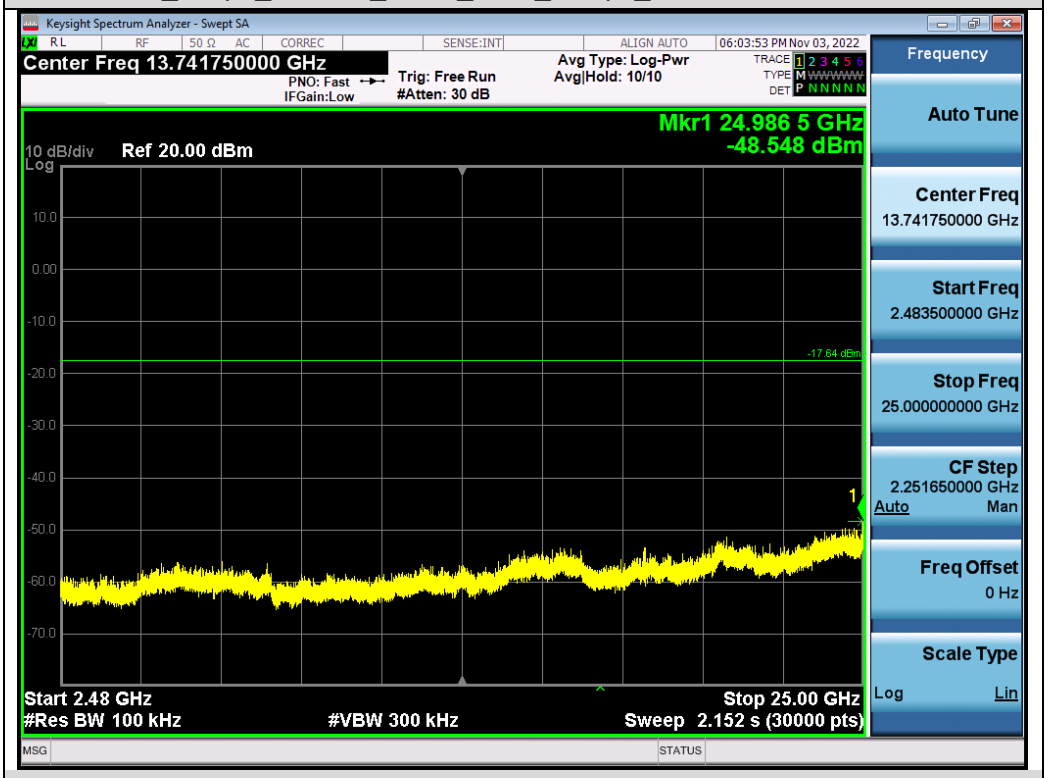


Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions



Test_Graph_802.11b_ANT1_2437_1Mbps_Higher Band Emissions

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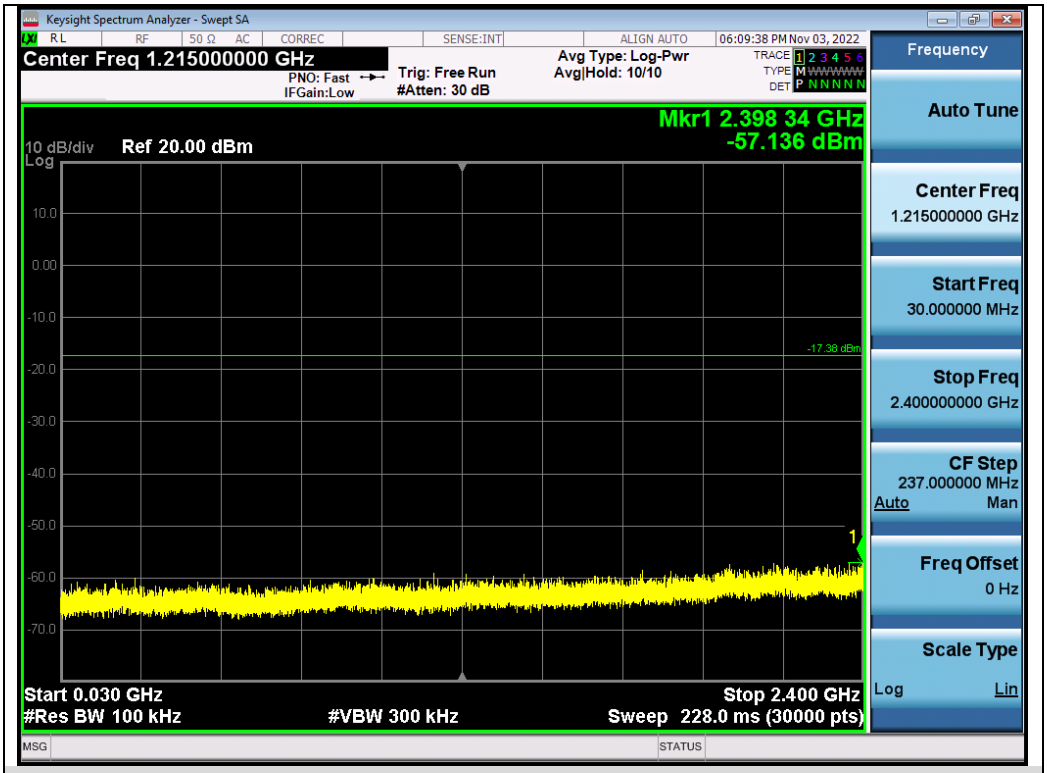

Test_Graph_802.11b_ANT1_2462_1Mbps_Lower Band Emissions

Test_Graph_802.11b_ANT1_2462_1Mbps_Higher Band Emissions

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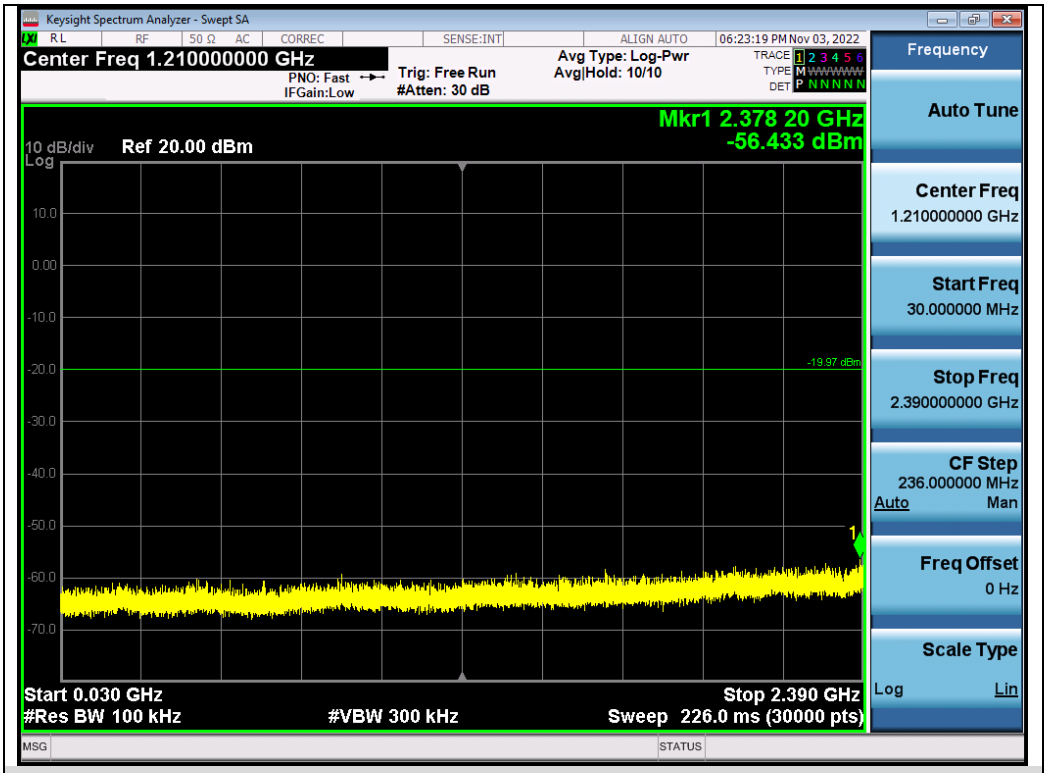

Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Emissions

Test_Graph_802.11g_ANT1_2412_6Mbps_Higher Band Emissions

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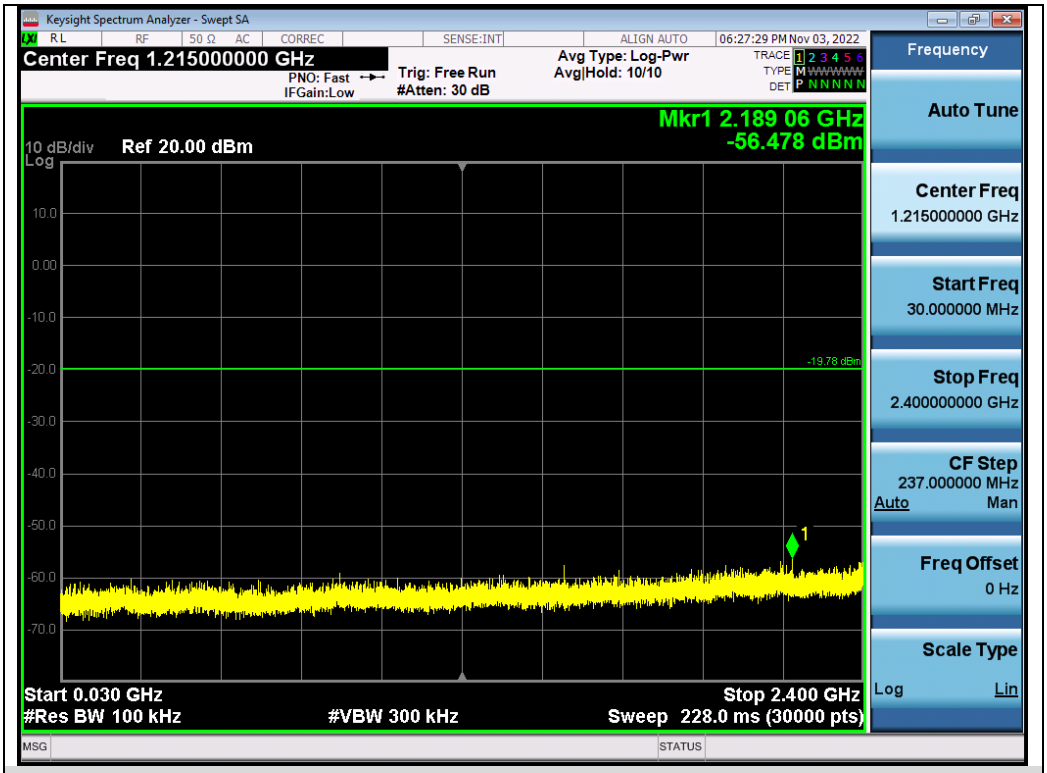

Test_Graph_802.11g_ANT1_2437_6Mbps_Lower Band Emissions

Test_Graph_802.11g_ANT1_2437_6Mbps_Higher Band Emissions

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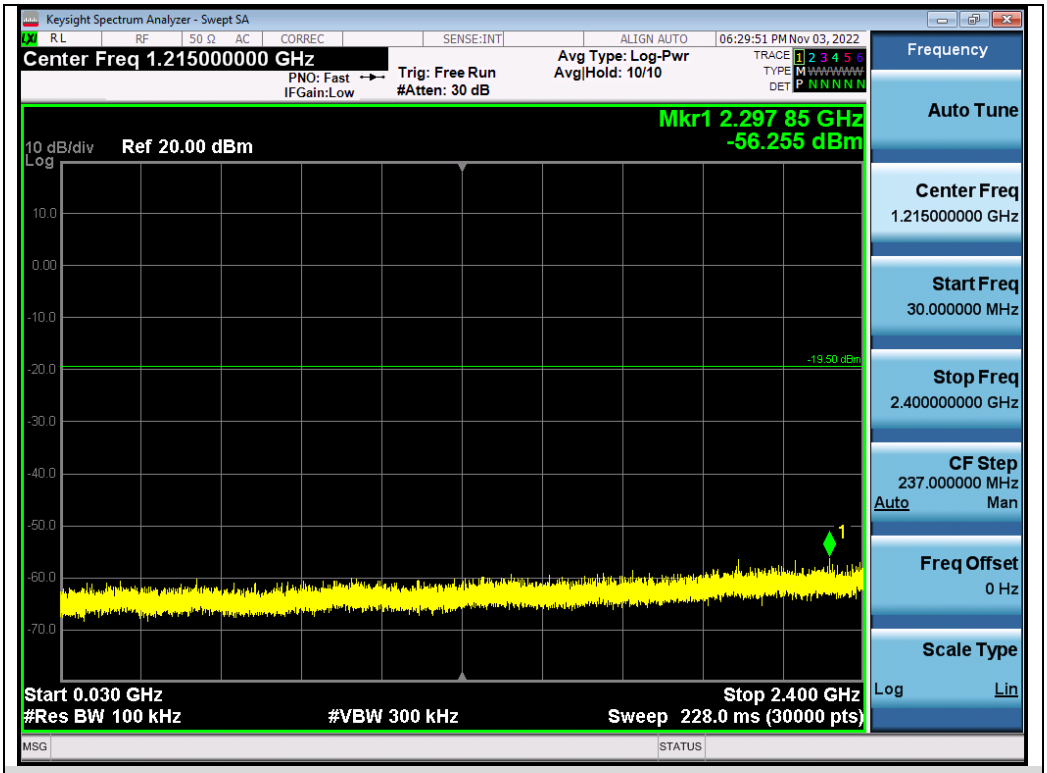
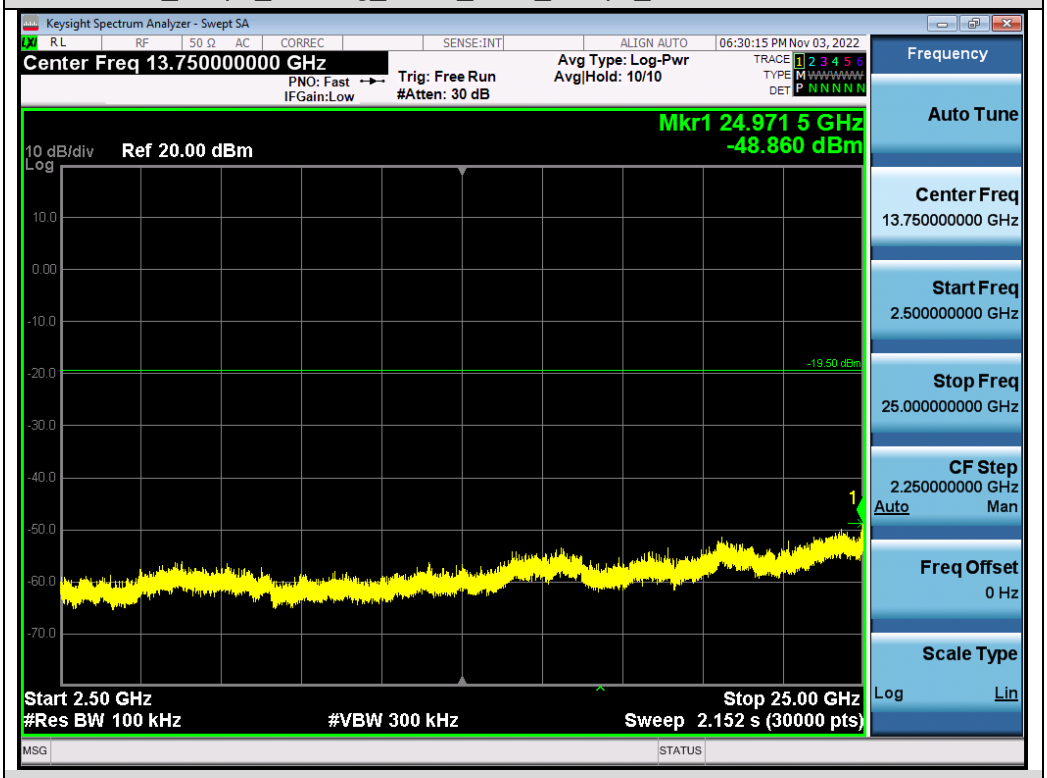


Test_Graph_802.11g_ANT1_2462_6Mbps_Lower Band Emissions



Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

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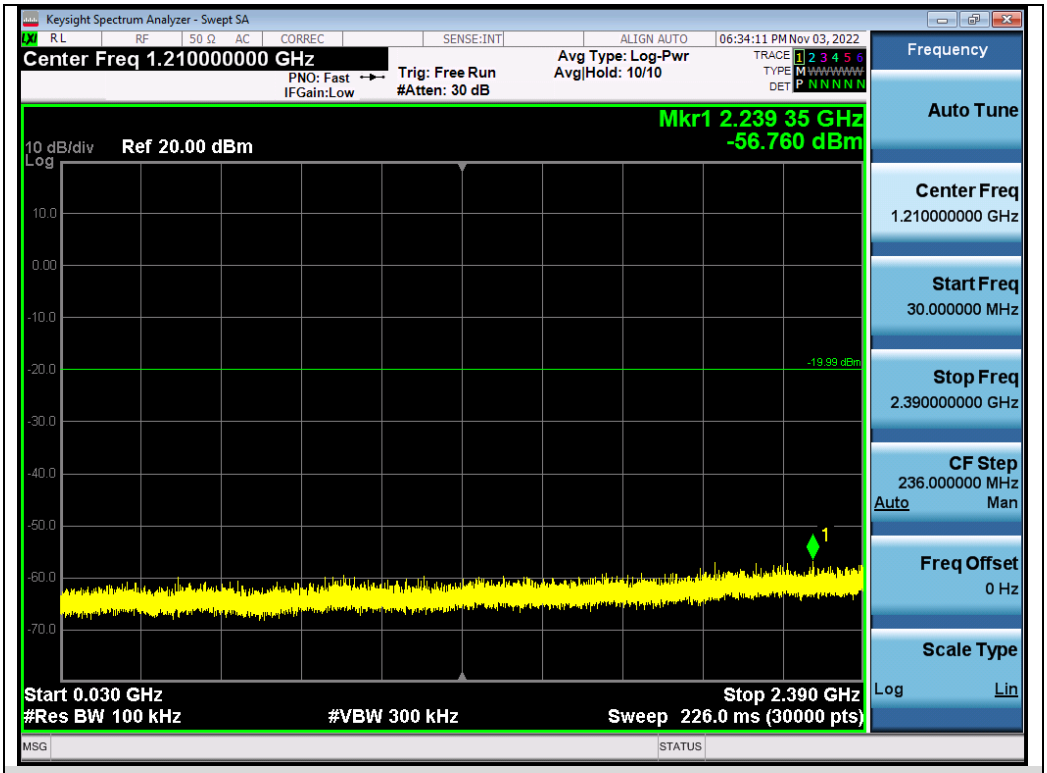

Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Emissions

Test_Graph_802.11n20_ANT1_2412_MCS0_Higher Band Emissions

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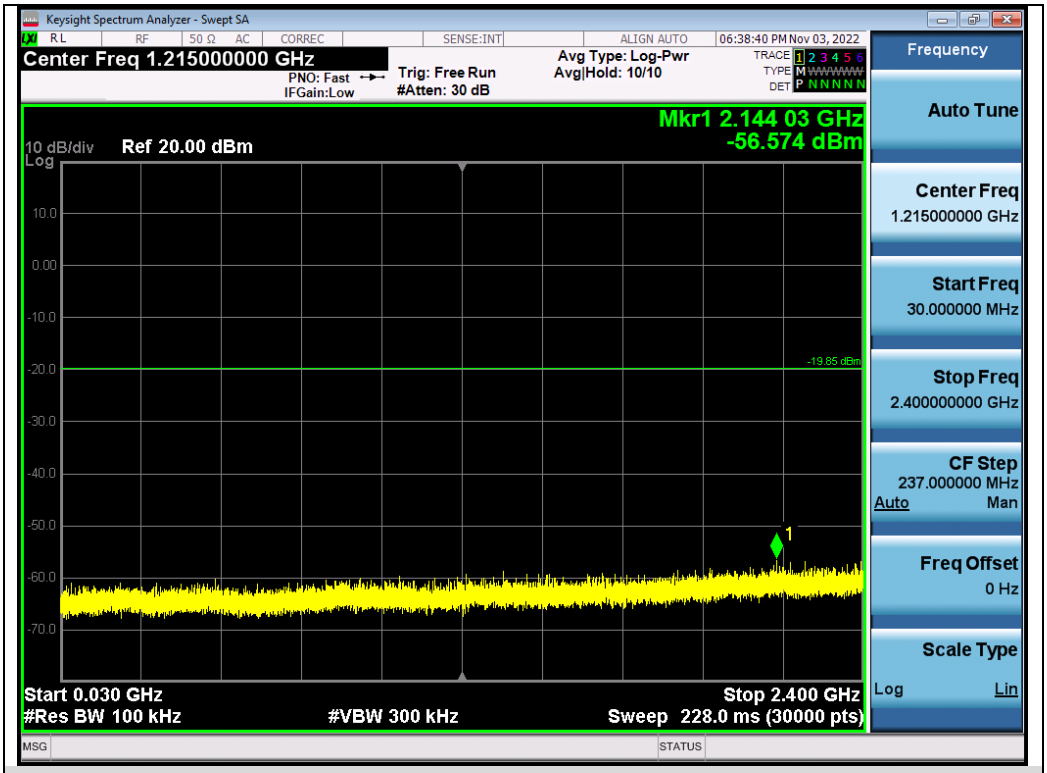

Test_Graph_802.11n20_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11n20_ANT1_2437_MCS0_Higher Band Emissions

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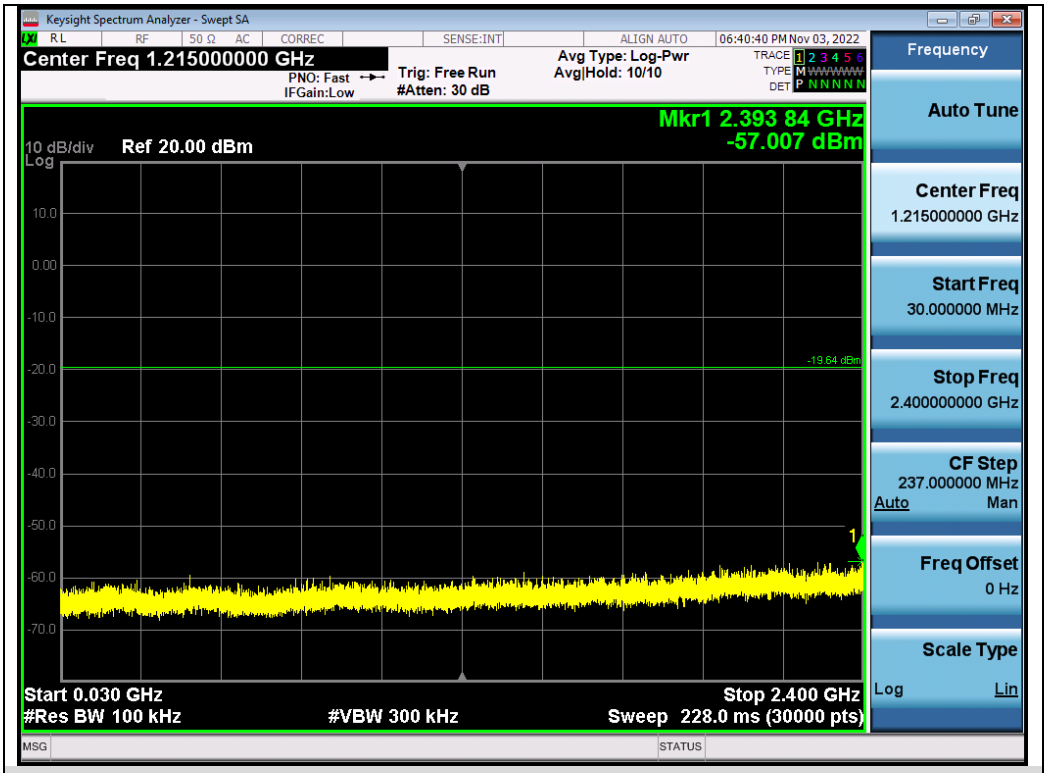

Test_Graph_802.11n20_ANT1_2462_MCS0_Lower Band Emissions

Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

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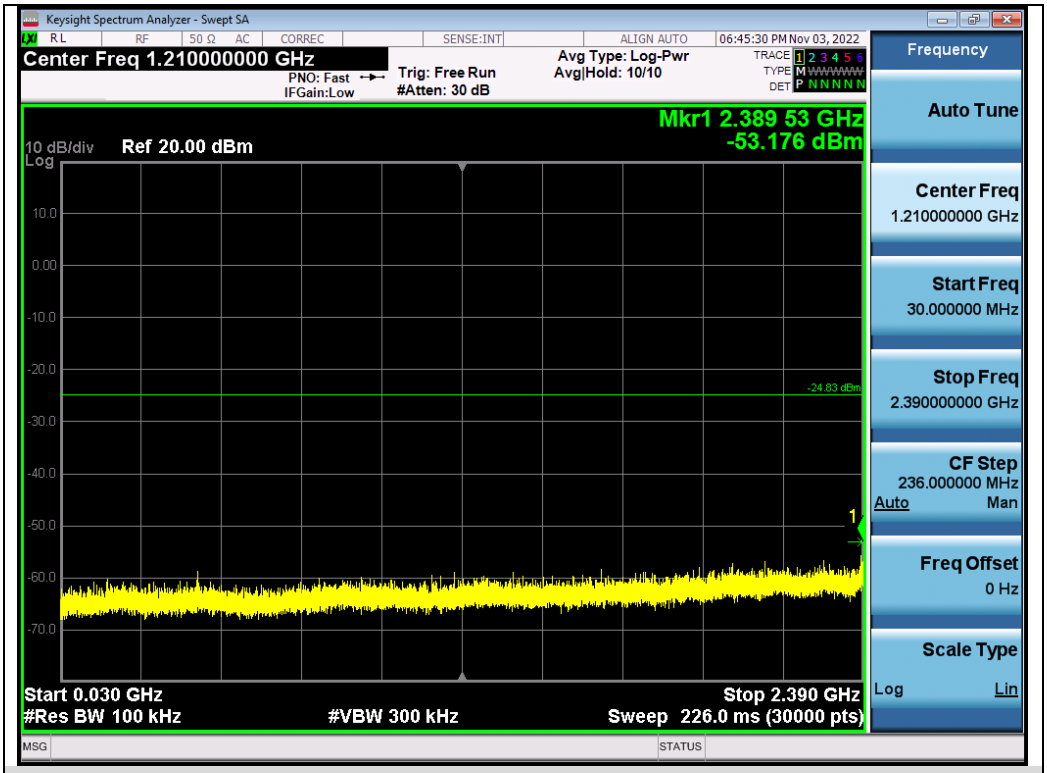

Test_Graph_802.11n40_ANT1_2422_MCS0_Lower Band Emissions

Test_Graph_802.11n40_ANT1_2422_MCS0_Higher Band Emissions

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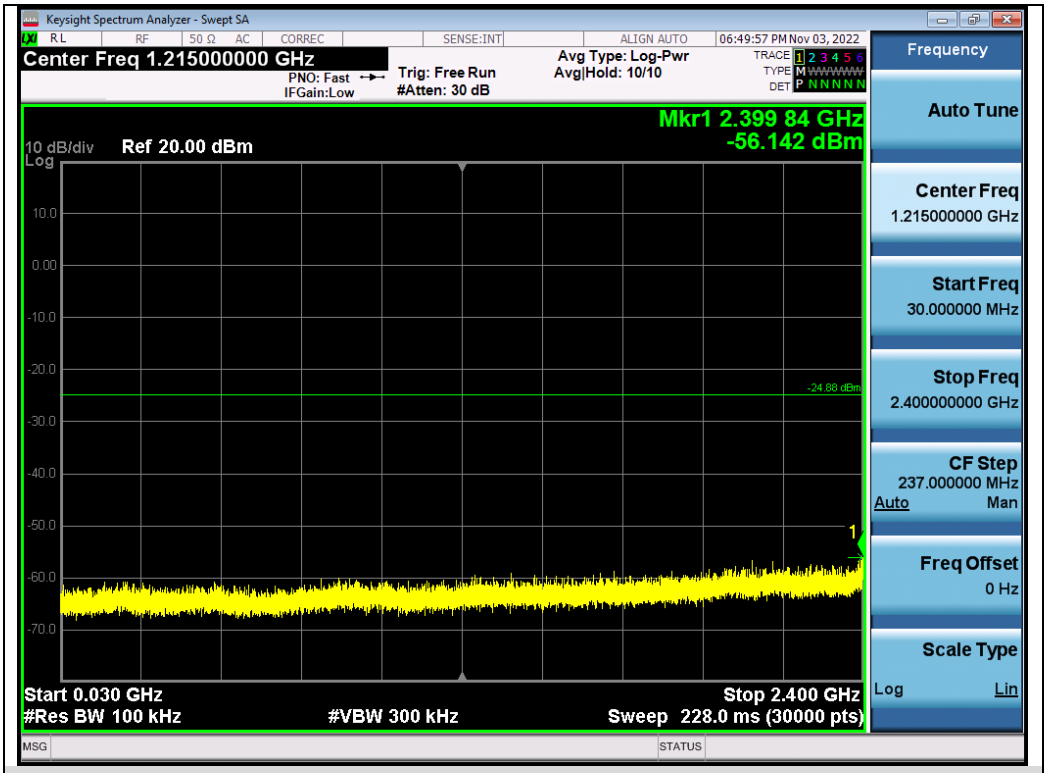

Test_Graph_802.11n40_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11n40_ANT1_2437_MCS0_Higher Band Emissions

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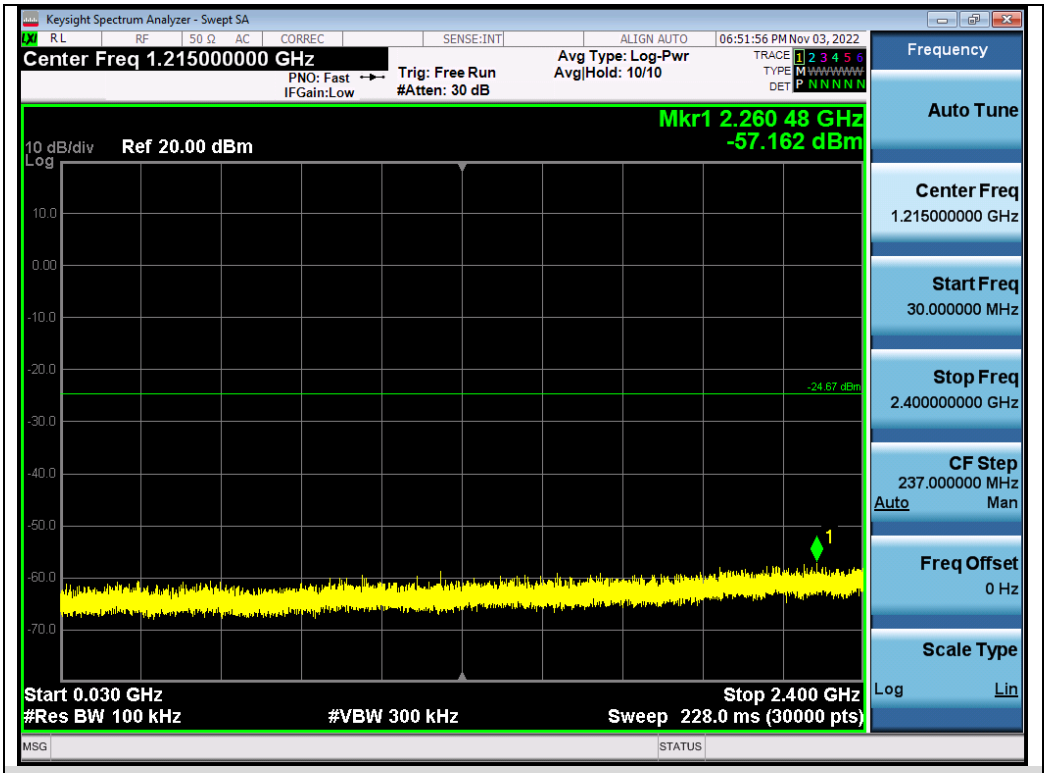

Test_Graph_802.11n40_ANT1_2452_MCS0_Lower Band Emissions

Test_Graph_802.11n40_ANT1_2452_MCS0_Higher Band Emissions

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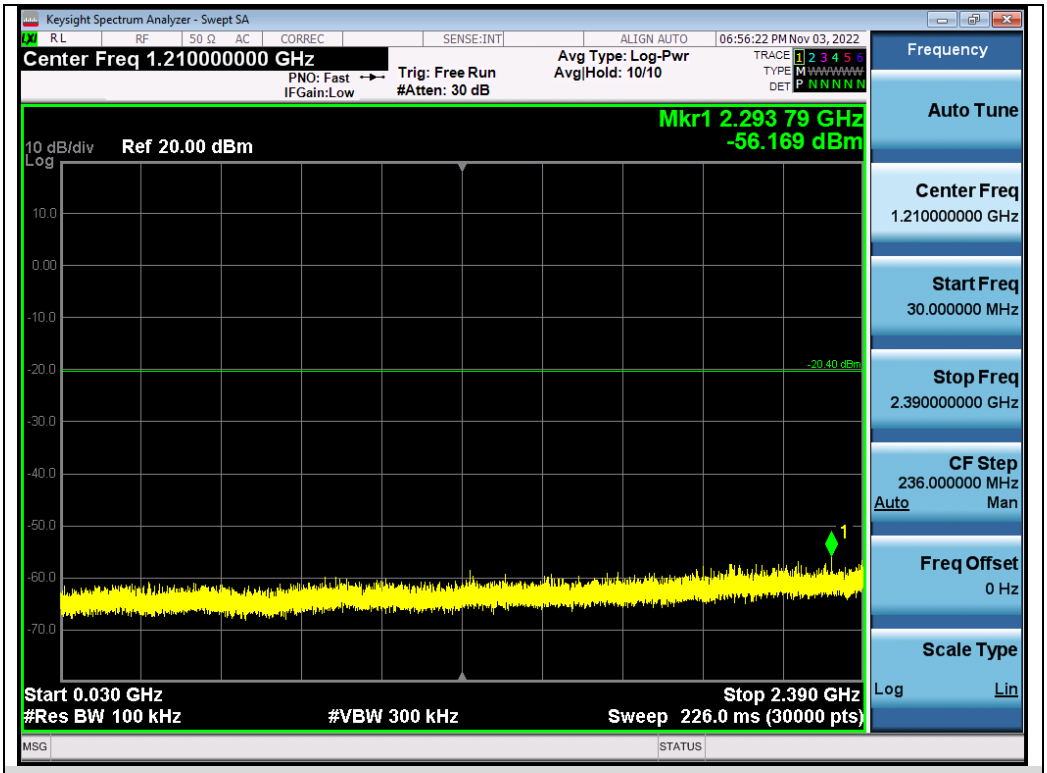

Test_Graph_802.11ax20_ANT1_2412_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_ANT1_2412_MCS0_Higher Band Emissions

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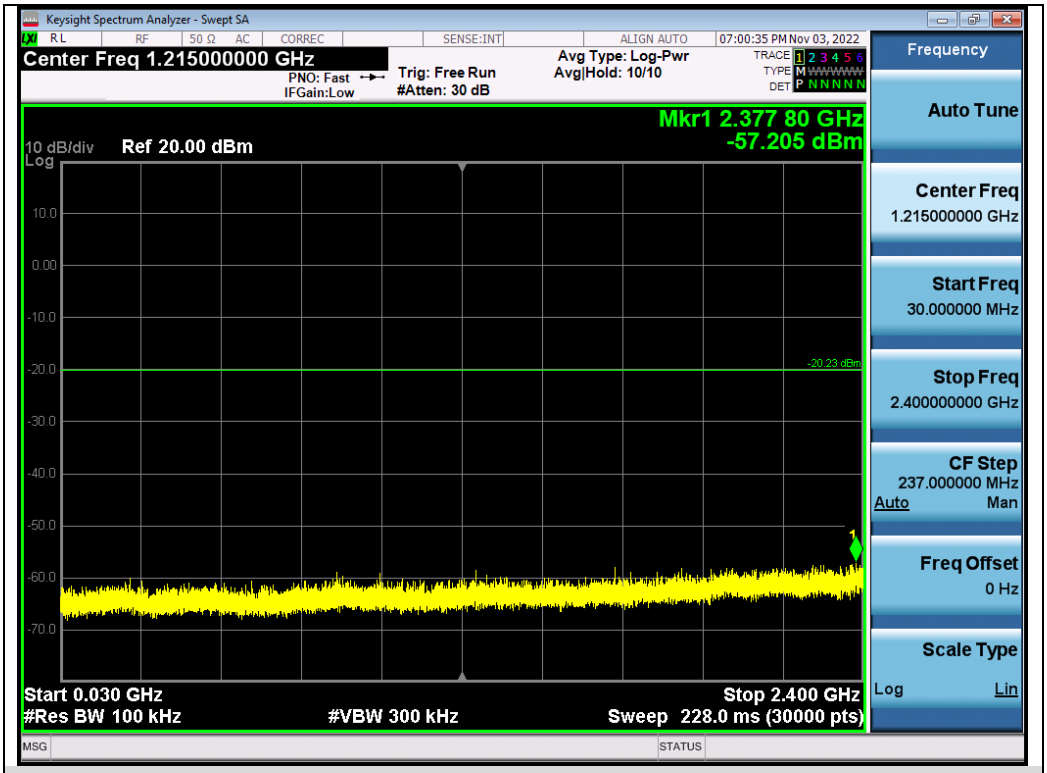

Test_Graph_802.11ax20_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_ANT1_2437_MCS0_Higher Band Emissions

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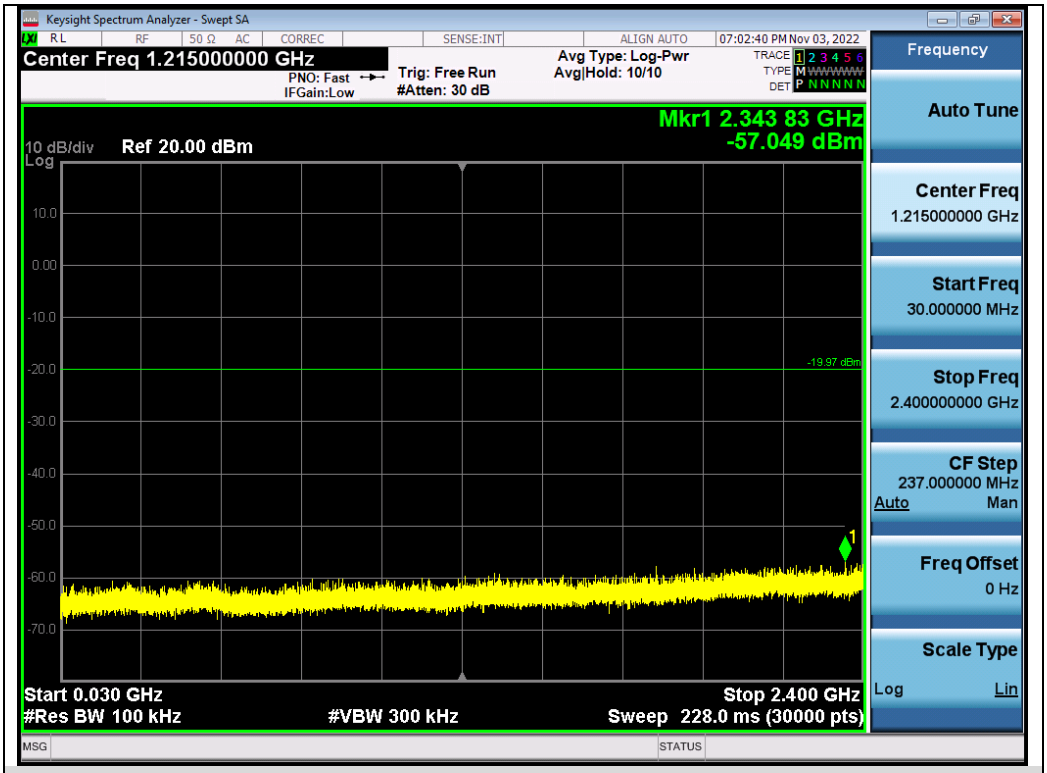

Test_Graph_802.11ax20_ANT1_2462_MCS0_Lower Band Emissions

Test_Graph_802.11ax20_ANT1_2462_MCS0_Higher Band Emissions

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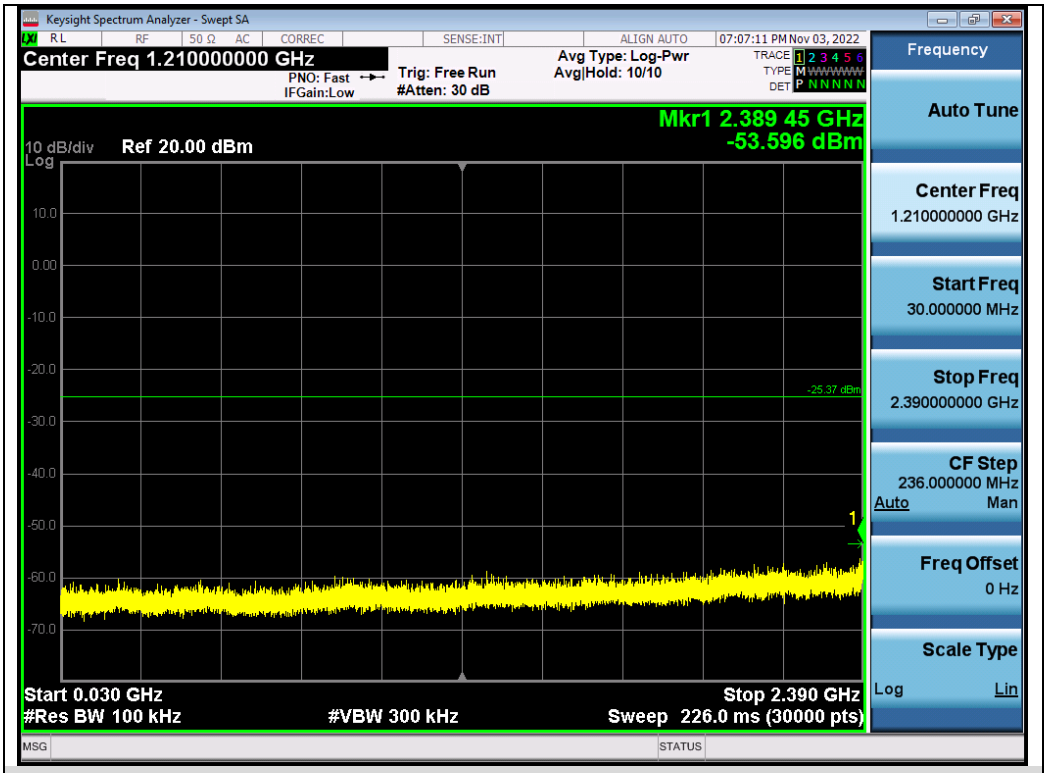

Test_Graph_802.11ax40_ANT1_2422_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_ANT1_2422_MCS0_Higher Band Emissions

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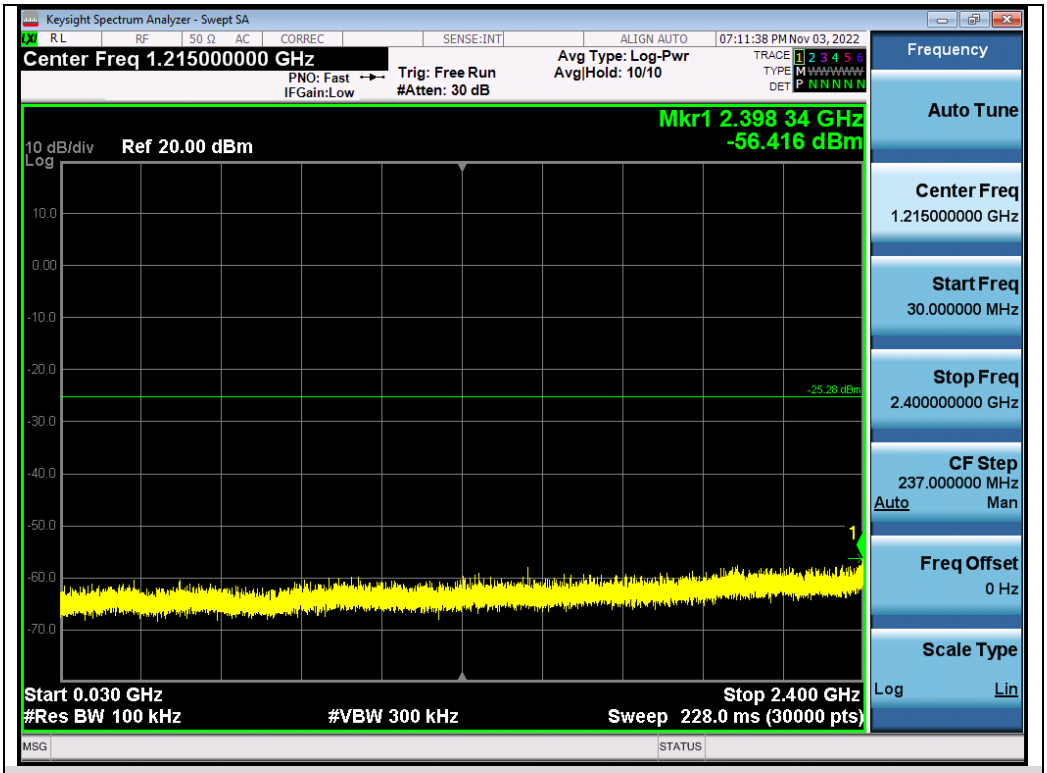

Test_Graph_802.11ax40_ANT1_2437_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_ANT1_2437_MCS0_Higher Band Emissions

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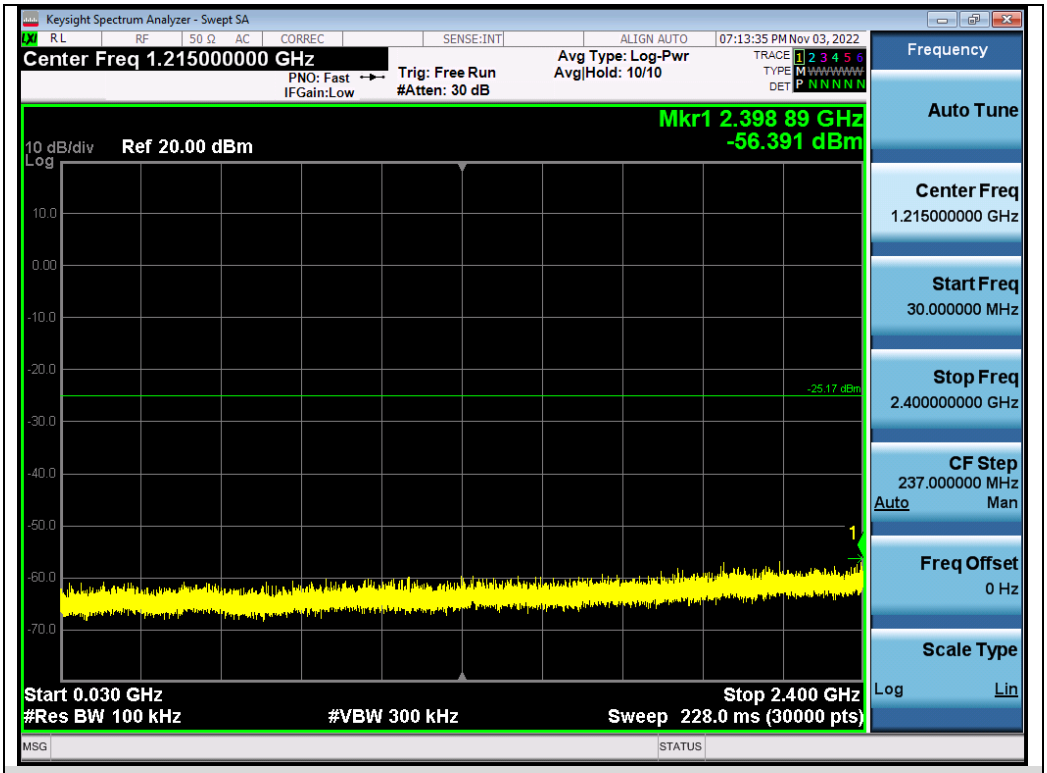

Test_Graph_802.11ax40_ANT1_2452_MCS0_Lower Band Emissions

Test_Graph_802.11ax40_ANT1_2452_MCS0_Higher Band Emissions

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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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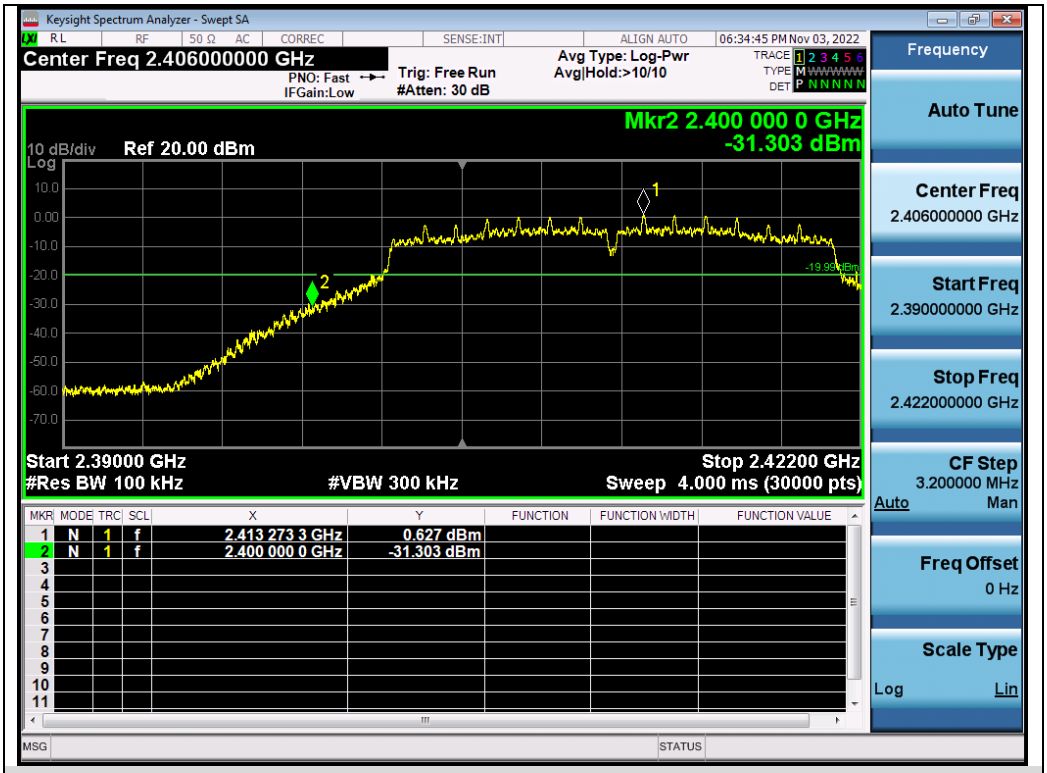

Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Edge Emissions

Test_Graph_802.11n40_ANT1_2422_MCS0_Lower Band Edge Emissions

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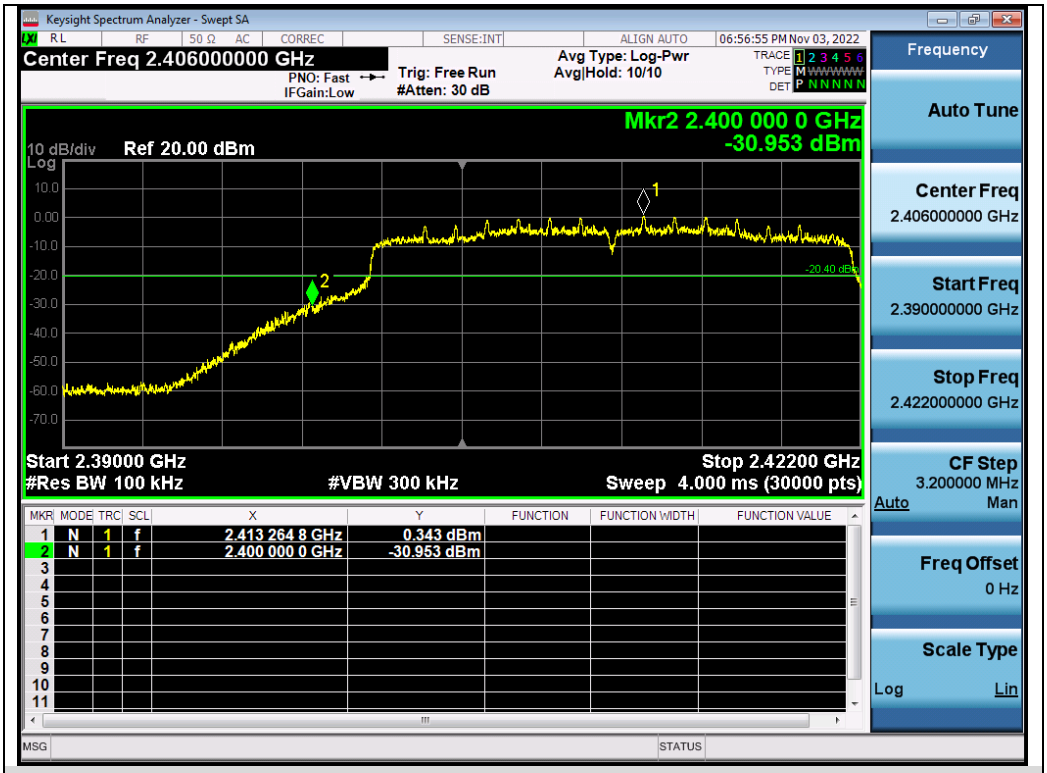

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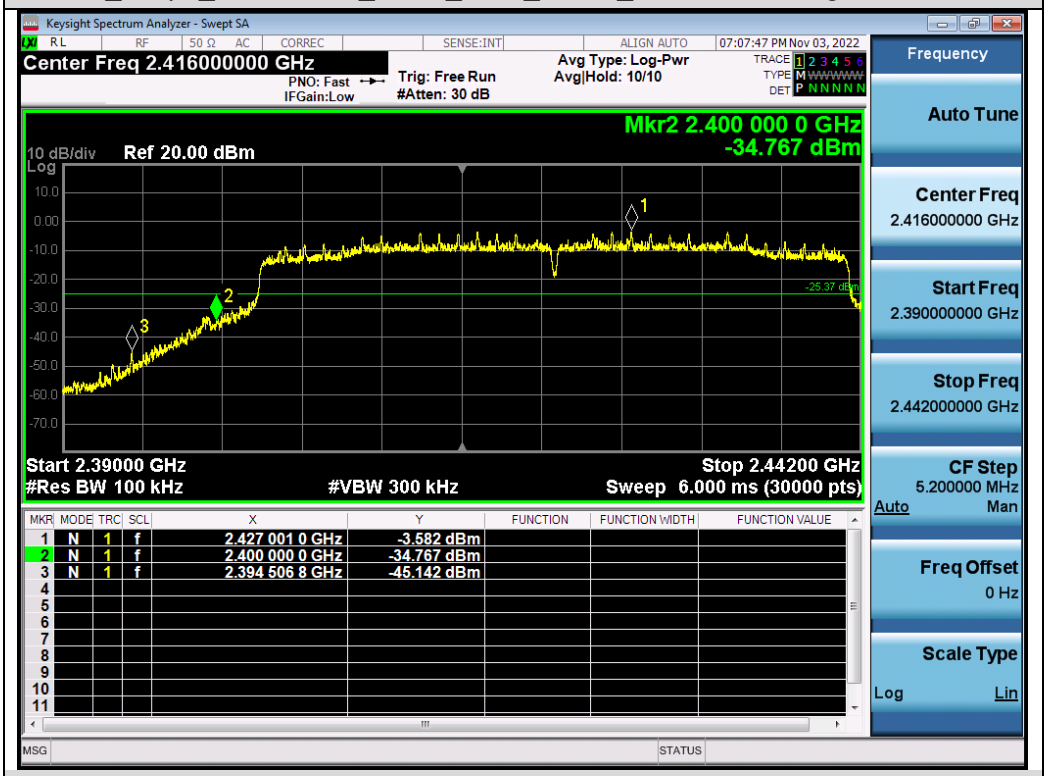

Test_Graph_802.11ax40_ANT1_2422_MCS0_Lower Band Edge Emissions

Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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10. POWER SPECTRAL DENSITY MEASUREMENT

10.1 MEASUREMENT LIMITS

According to Section 5.2(b) of the RSS-247 standard:

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

10.2 MEASUREMENT PROCEDURE

☒For Peak power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the RBW = 20 kHz.
4. Set the VBW ≥ [3 × RBW].
5. Set the Span ≥ [1.5 × DTS bandwidth].
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of Maximum PSD is specified in 3 kHz, add a constant factor 10*log(3kHz/20kHz) = -8.23 dB to the measured result.
10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐For Average power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set Span to at least 1.5 times the OBW.
4. Set RBW to:3 kHz ≤ RBW ≤ 100 kHz.
5. Set VBW≥[3×RBW].
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of Maximum PSD is specified in 3 kHz, add a constant factor 10*log(3kHz/20kHz) = -8.23 dB to the measured result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.
12. Record the test results in the report.

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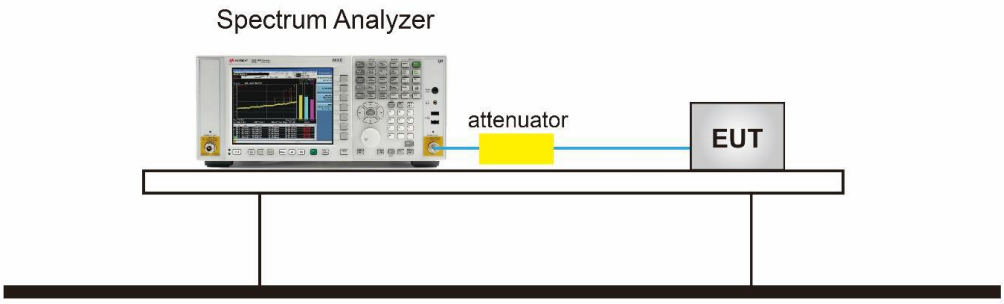
10.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



10.4 MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density-ANT 1					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-2.259	-10.498	≤8	Pass
	2437	-2.465	-10.704	≤8	Pass
	2462	-2.296	-10.535	≤8	Pass
802.11g	2412	-5.343	-13.582	≤8	Pass
	2437	-5.123	-13.362	≤8	Pass
	2462	-5.408	-13.647	≤8	Pass
802.11n20	2412	-6.066	-14.305	≤8	Pass
	2437	-5.976	-14.215	≤8	Pass
	2462	-5.974	-14.213	≤8	Pass
802.11n40	2422	-9.716	-17.955	≤8	Pass
	2437	-9.679	-17.918	≤8	Pass
	2452	-10.003	-18.242	≤8	Pass
802.11ax20	2412	-6.589	-14.828	≤8	Pass
	2437	-6.967	-15.206	≤8	Pass
	2462	-7.032	-15.271	≤8	Pass
802.11ax40	2422	-12.121	-20.36	≤8	Pass
	2437	-11.664	-19.903	≤8	Pass
	2452	-11.188	-19.427	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-ANT 2					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-2.439	-10.678	≤8	Pass
	2437	-2.243	-10.482	≤8	Pass
	2462	-2.090	-10.329	≤8	Pass
802.11g	2412	-5.178	-13.417	≤8	Pass
	2437	-5.017	-13.256	≤8	Pass
	2462	-4.428	-12.667	≤8	Pass
802.11n20	2412	-5.928	-14.167	≤8	Pass
	2437	-5.604	-13.843	≤8	Pass
	2462	-5.435	-13.674	≤8	Pass
802.11n40	2422	-9.488	-17.727	≤8	Pass
	2437	-9.553	-17.792	≤8	Pass
	2452	-9.366	-17.605	≤8	Pass
802.11ax20	2412	-6.409	-14.648	≤8	Pass
	2437	-6.151	-14.39	≤8	Pass
	2462	-6.176	-14.415	≤8	Pass
802.11ax40	2422	-10.095	-18.334	≤8	Pass
	2437	-10.700	-18.939	≤8	Pass
	2452	-10.524	-18.763	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-MIMO					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11n20	2412	-2.99	-11.23	≤8	Pass
	2437	-2.78	-11.01	≤8	Pass
	2462	-2.69	-10.92	≤8	Pass
802.11n40	2422	-6.59	-14.83	≤8	Pass
	2437	-6.61	-14.84	≤8	Pass
	2452	-6.66	-14.90	≤8	Pass
802.11ax20	2412	-3.49	-11.73	≤8	Pass
	2437	-3.53	-11.77	≤8	Pass
	2462	-3.57	-11.81	≤8	Pass
802.11ax40	2422	-7.98	-16.22	≤8	Pass
	2437	-8.15	-16.38	≤8	Pass
	2452	-7.83	-16.07	≤8	Pass

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

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Test Graphs of Conducted Output Power Spectral Density-ANT 1

Test_Graph_802.11b_ANT1_2412_1Mbps_PSD

Test_Graph_802.11b_ANT1_2437_1Mbps_PSD

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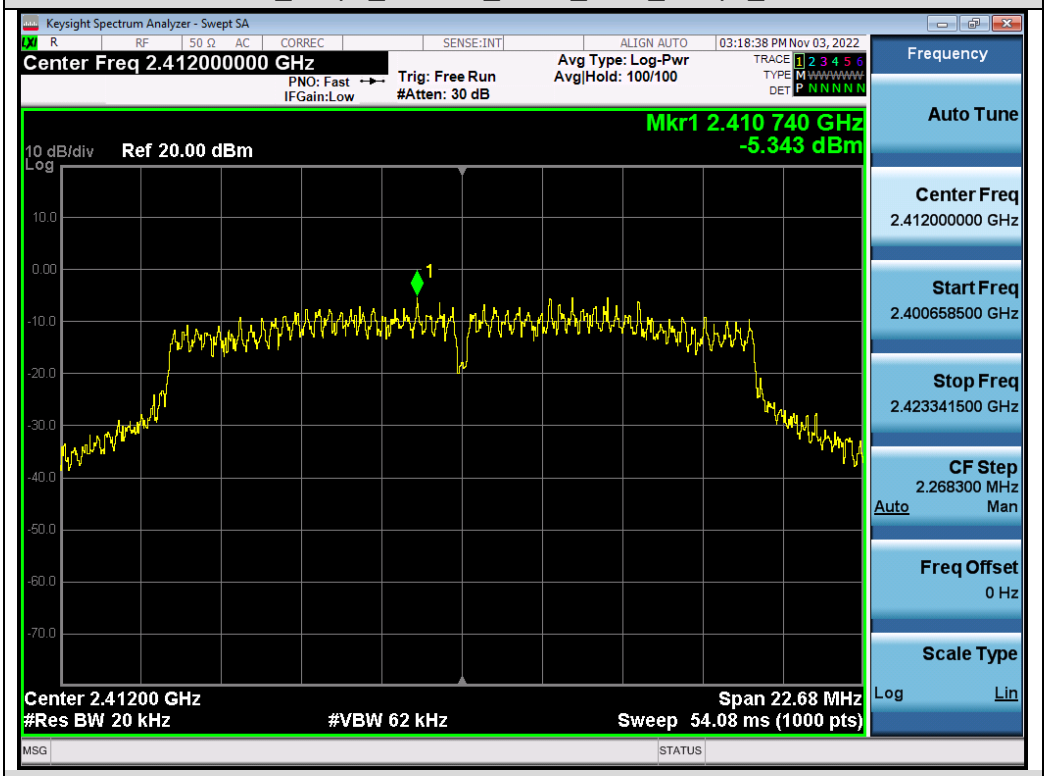
Test_Graph_802.11b_ANT1_2462_1Mbps_PSD



Test_Graph_802.11g_ANT1_2412_6Mbps_PSD

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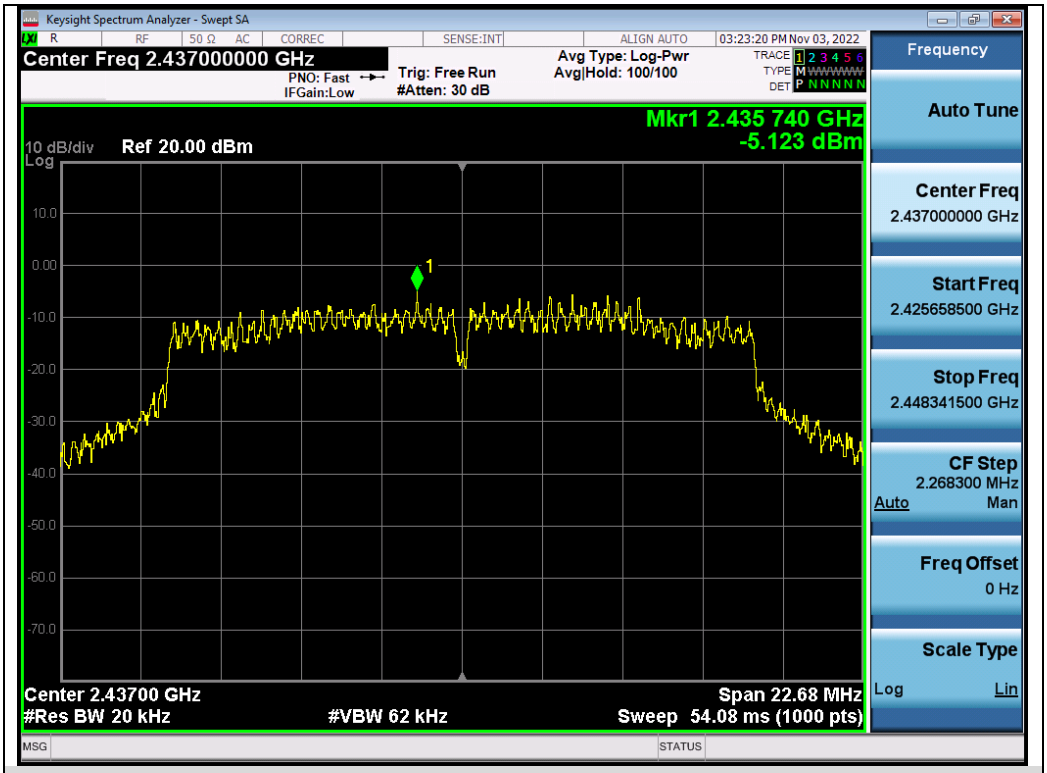
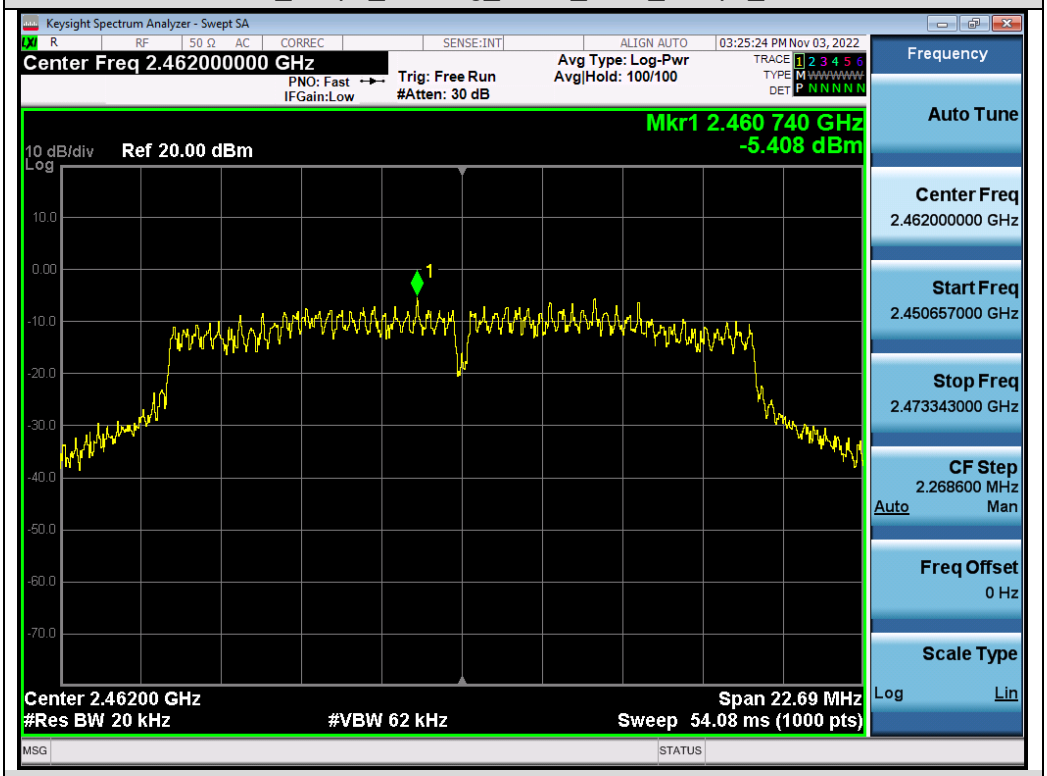


Test_Graph_802.11g_ANT1_2437_6Mbps_PSD



Test_Graph_802.11g_ANT1_2462_6Mbps_PSD

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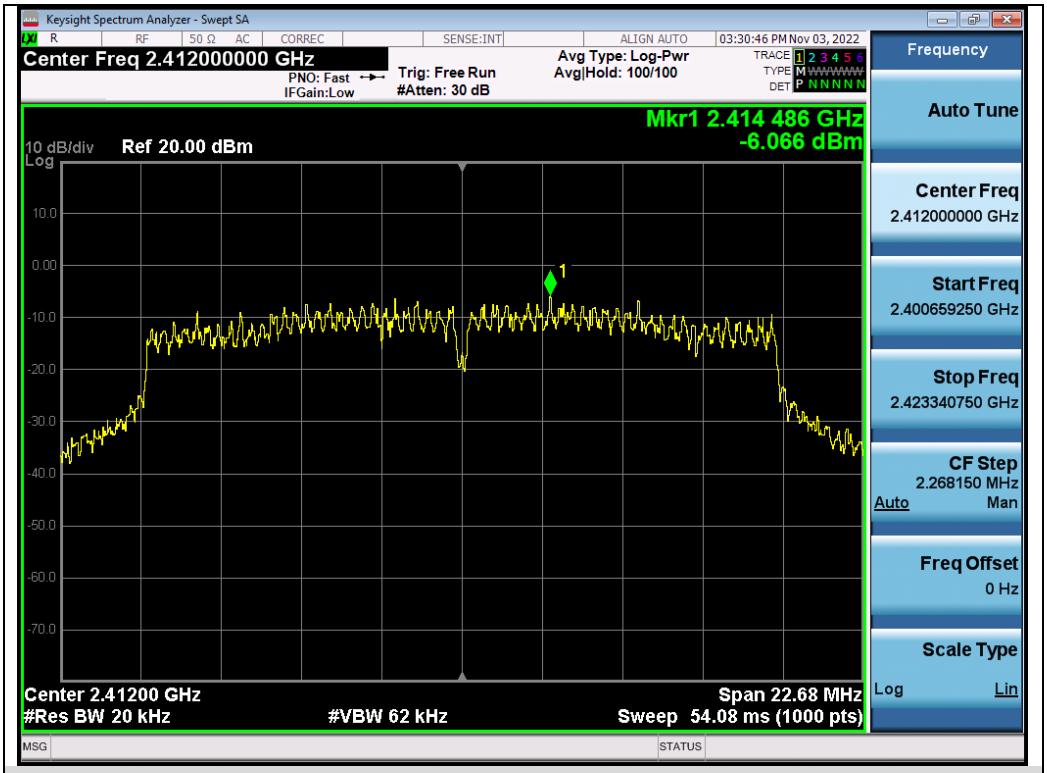
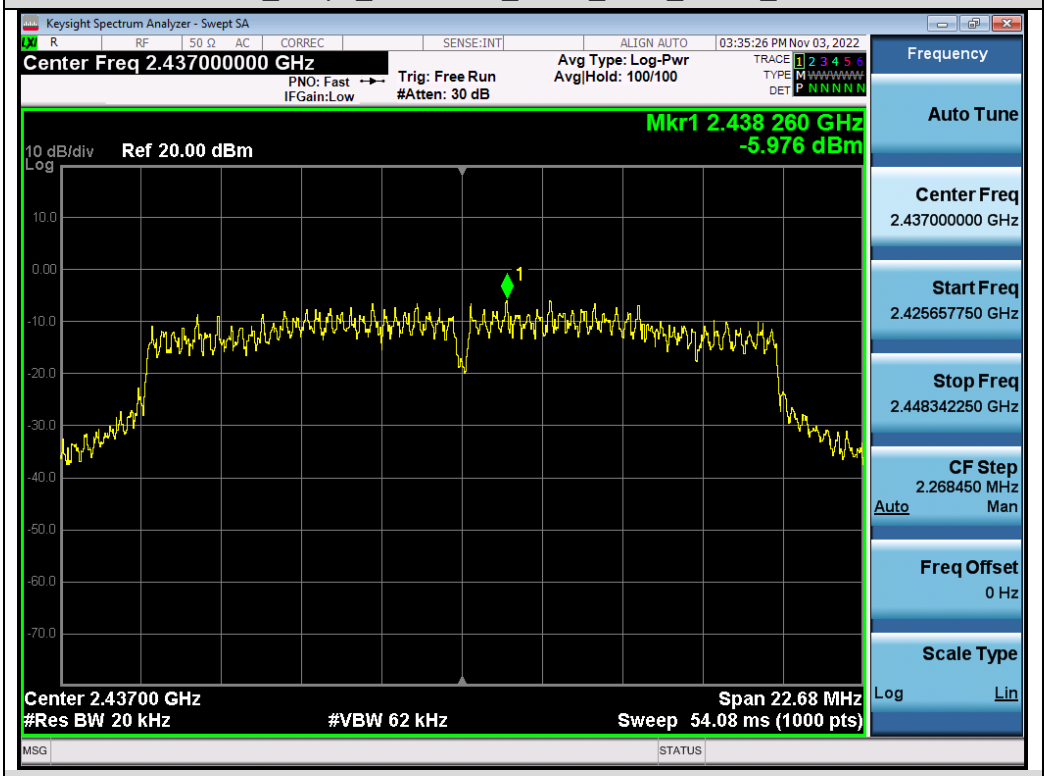


Test_Graph_802.11n20_ANT1_2412_MCS0_PSD



Test_Graph_802.11n20_ANT1_2437_MCS0_PSD

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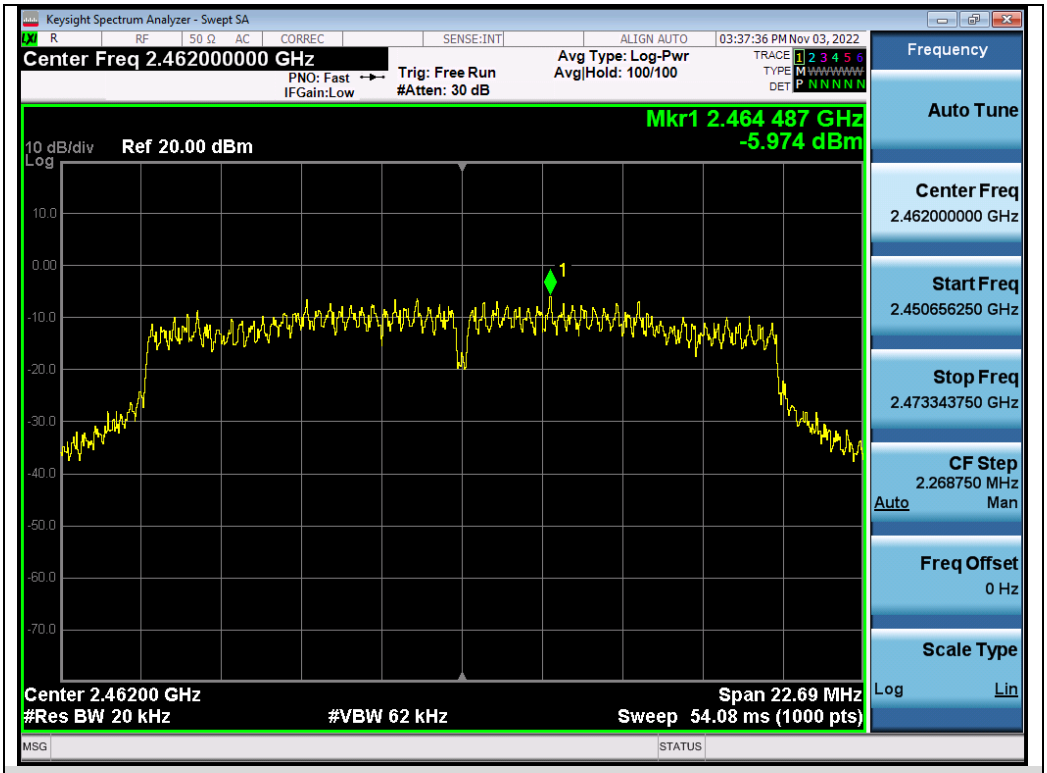
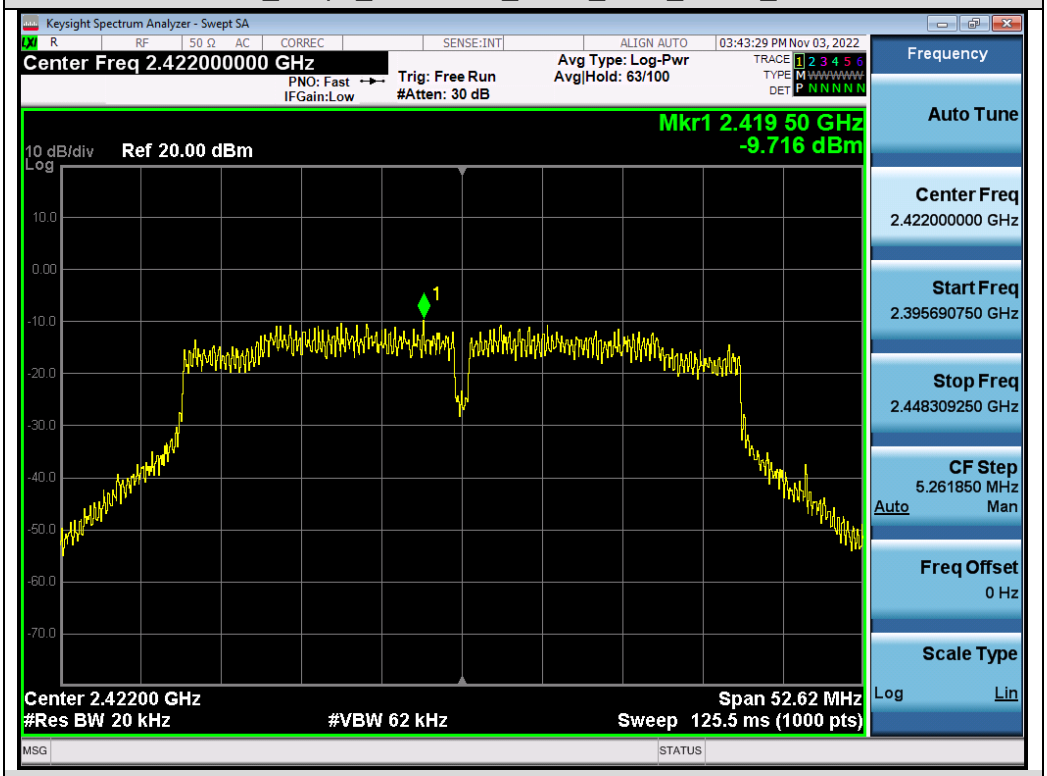


Test_Graph_802.11n20_ANT1_2462_MCS0_PSD



Test_Graph_802.11n40_ANT1_2422_MCS0_PSD

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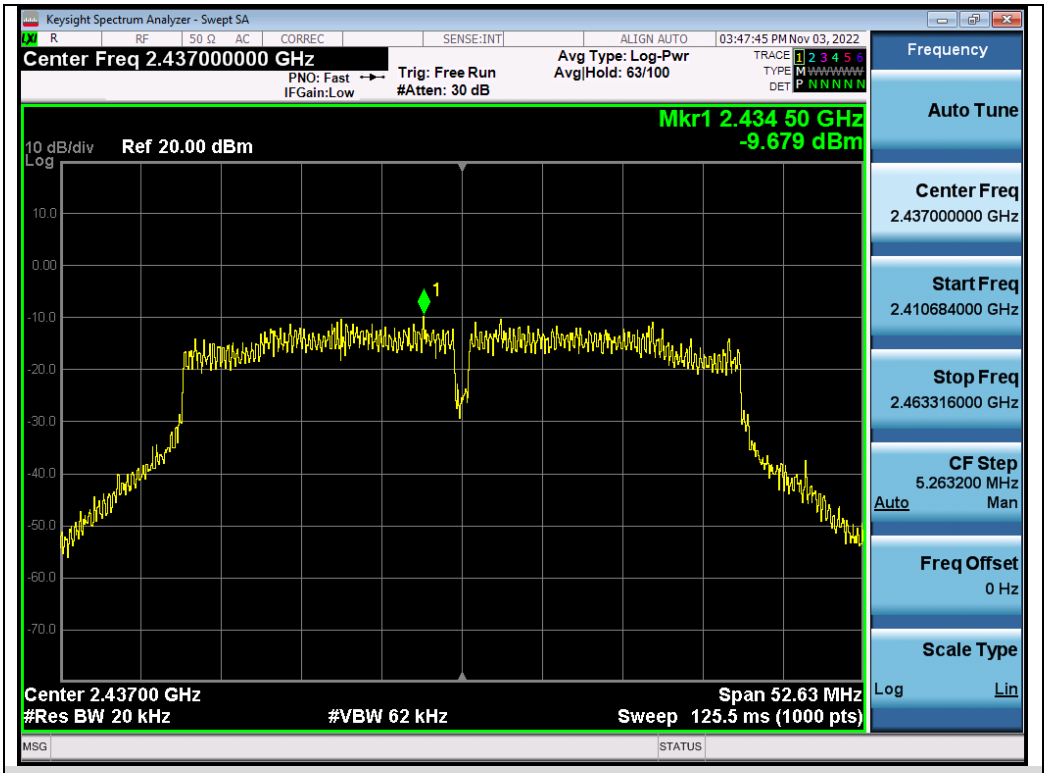
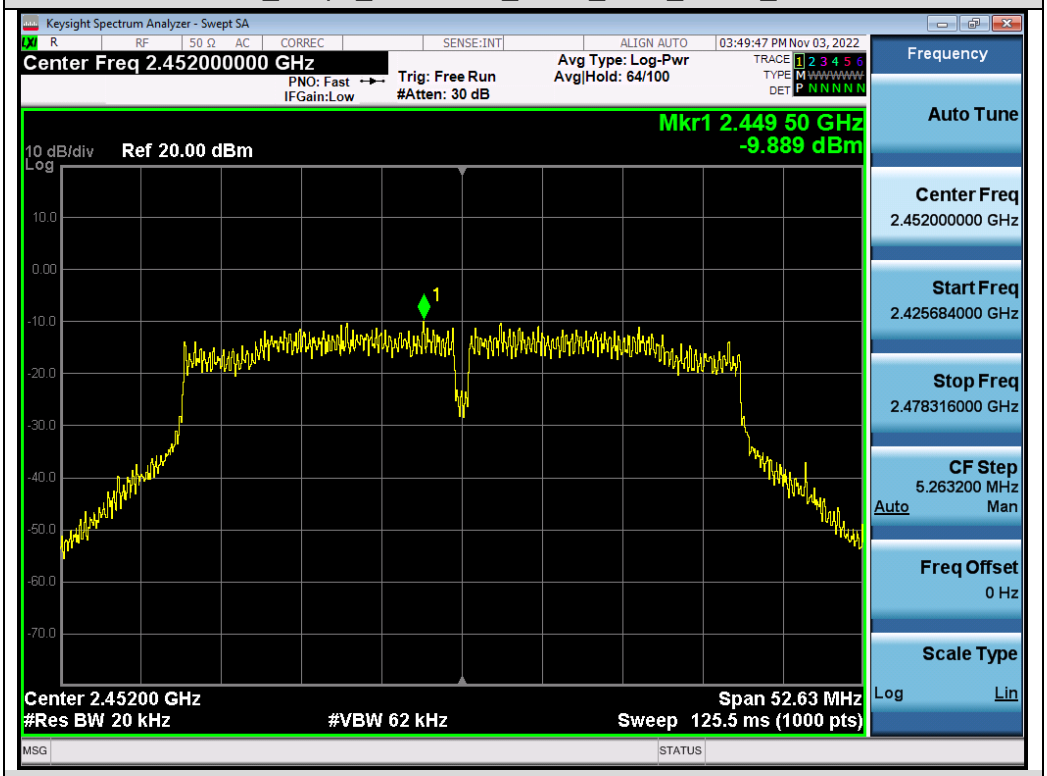


Test_Graph_802.11n40_ANT1_2437_MCS0_PSD



Test_Graph_802.11n40_ANT1_2452_MCS0_PSD

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Test_Graph_802.11ax20_ANT1_2412_MCS0_PSD

Test_Graph_802.11ax20_ANT1_2437_MCS0_PSD

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Test_Graph_802.11ax20_ANT1_2462_MCS0_PSD

Test_Graph_802.11ax40_ANT1_2422_MCS0_PSD

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