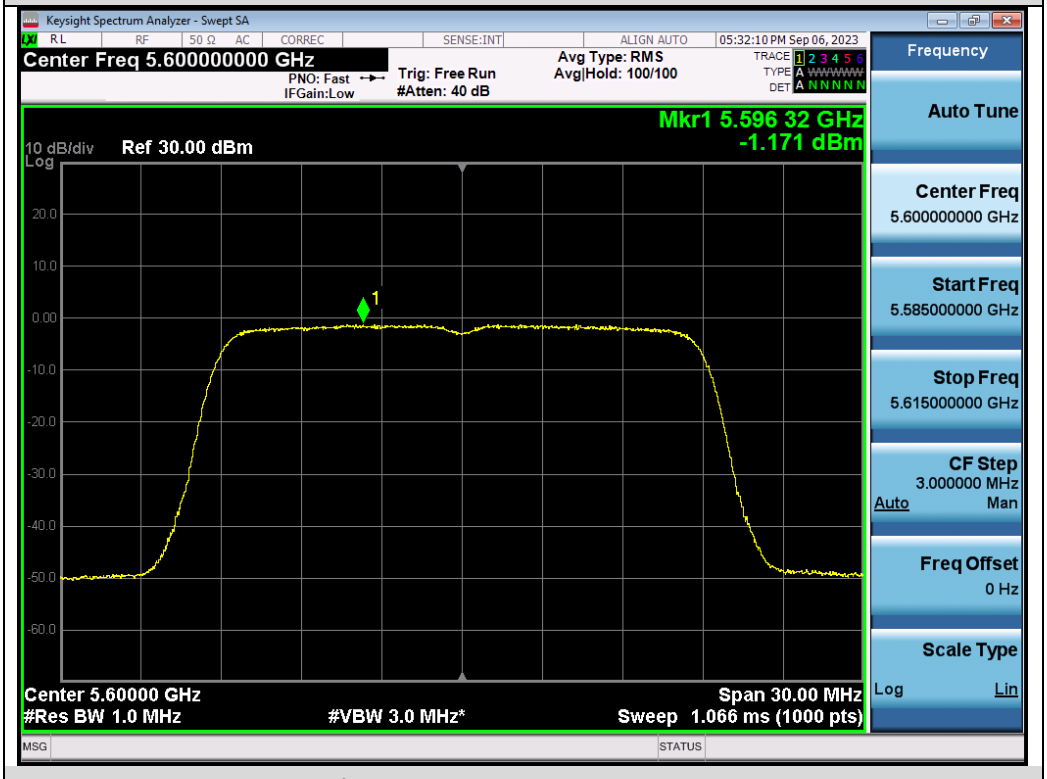
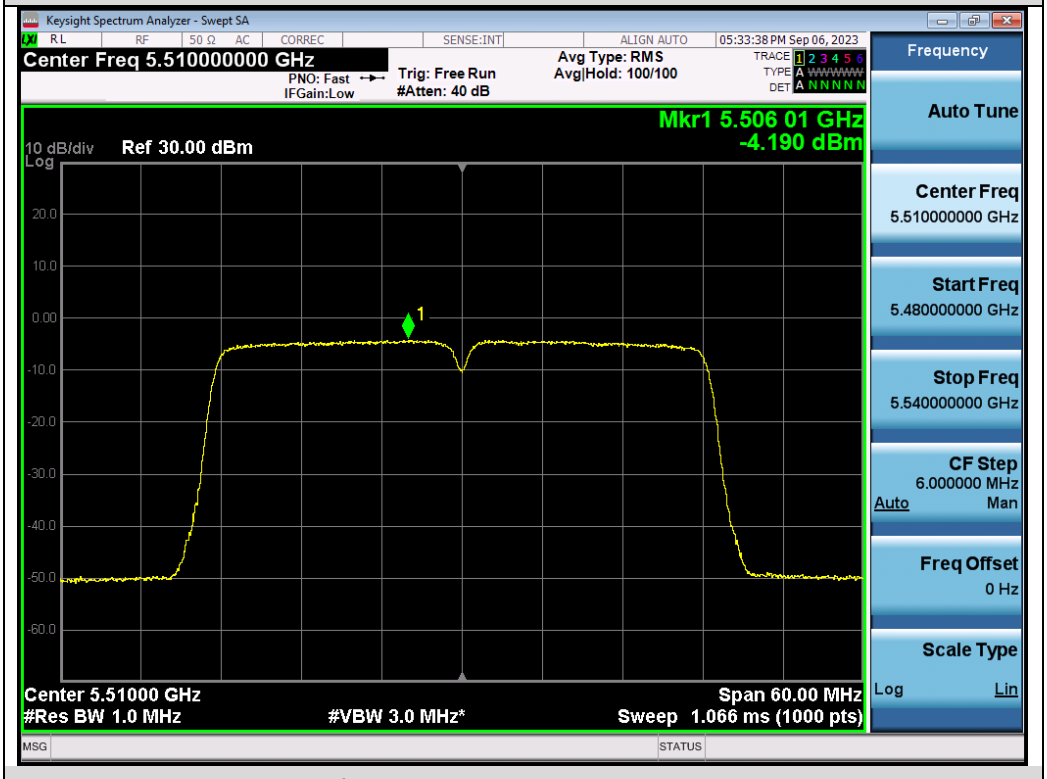
Test_Graph_802.11n20_ANT2_5500_MCS0_PSD



Test_Graph_802.11n20_ANT2_5600_MCS0_PSD

Test_Graph_802.11n20_ANT2_5700_MCS0_PSD



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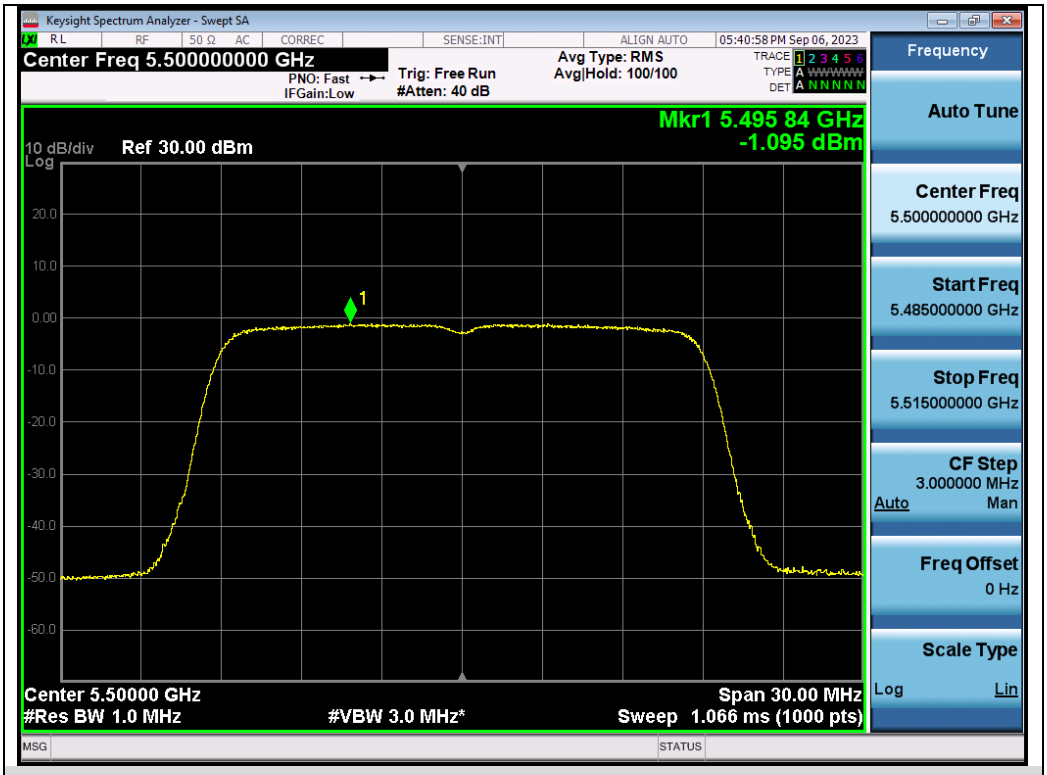
Test_Graph_802.11n40_ANT2_5590_MCS0_PSD

Test_Graph_802.11n40_ANT2_5670_MCS0_PSD



Test_Graph_802.11ac20_ANT2_5500_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5600_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5700_MCS9_PSD

Test_Graph_802.11ac40_ANT2_5510_MCS9_PSD

Test_Graph_802.11ac40_ANT2_5590_MCS9_PSD

Test_Graph_802.11ac40_ANT2_5670_MCS9_PSD

Test_Graph_802.11ac80_ANT2_5530_MCS9_PSD

Test_Graph_802.11ac80_ANT2_5610_MCS9_PSD

Test_Graph_802.11ax20_ANT2_5500_MCS0_PSD

Test_Graph_802.11ax20_ANT2_5600_MCS0_PSD

Test_Graph_802.11ax20_ANT2_5700_MCS9_PSD

Test_Graph_802.11ax40_ANT2_5510_MCS9_PSD

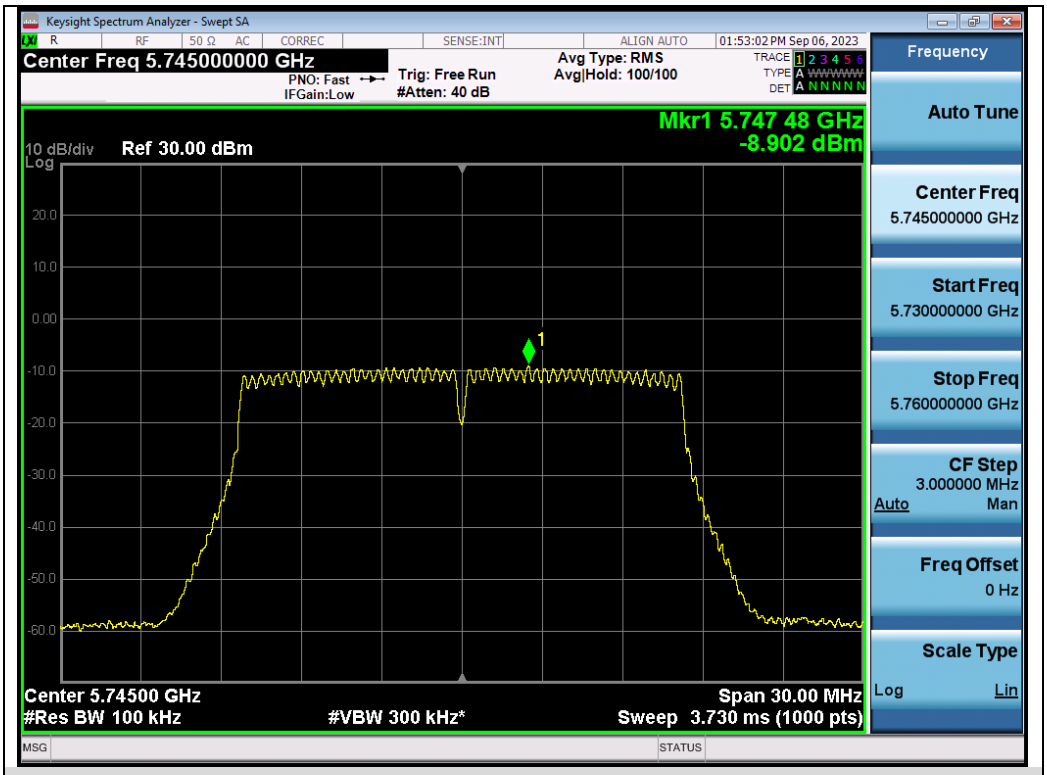
Test_Graph_802.11ax40_ANT2_5590_MCS9_PSD

Test_Graph_802.11ax40_ANT2_5670_MCS9_PSD

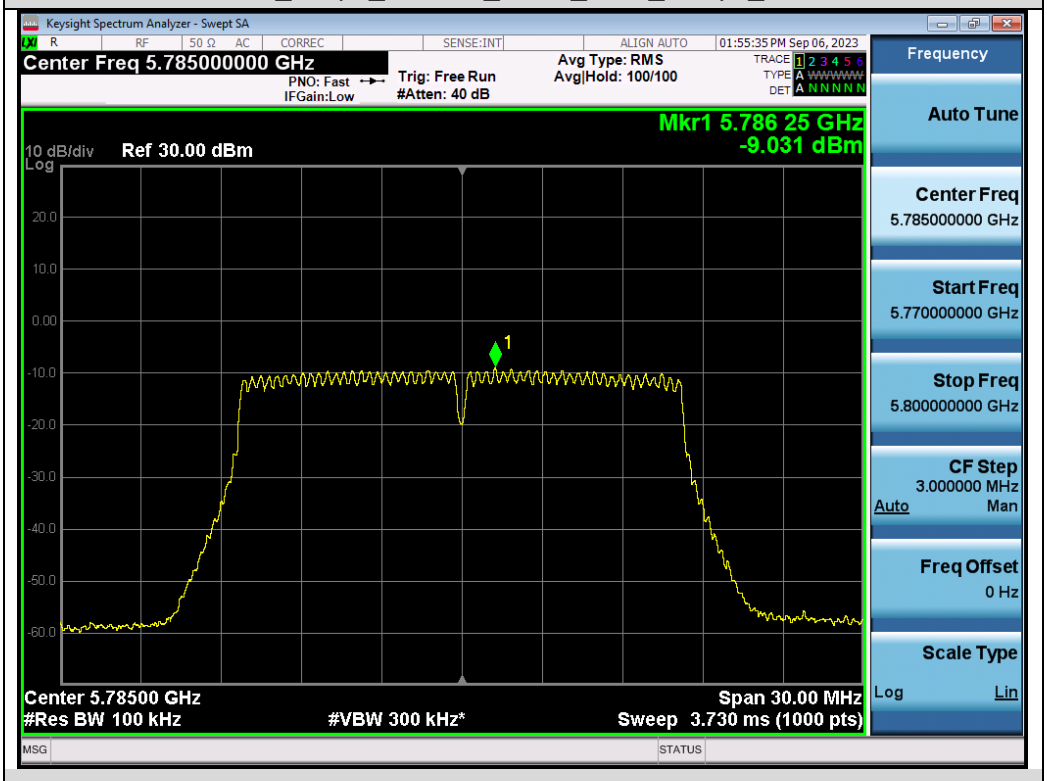
Test_Graph_802.11ax80_ANT2_5530_MCS9_PSD

Test_Graph_802.11ax80_ANT2_5610_MCS9_PSD

Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



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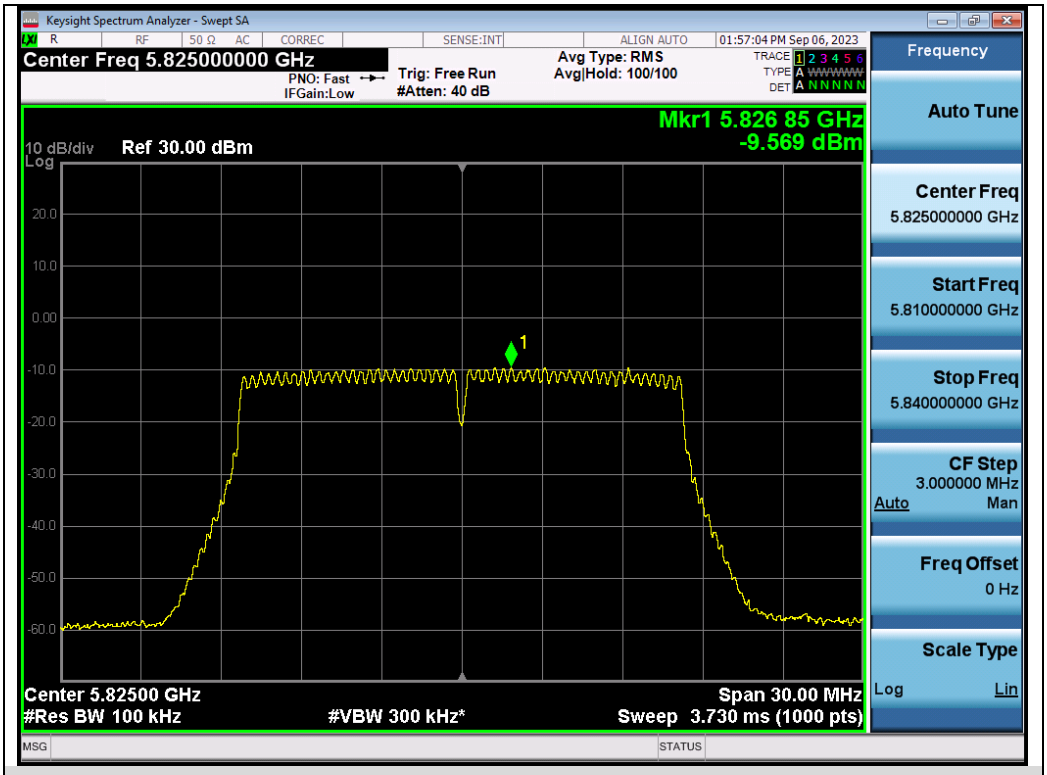
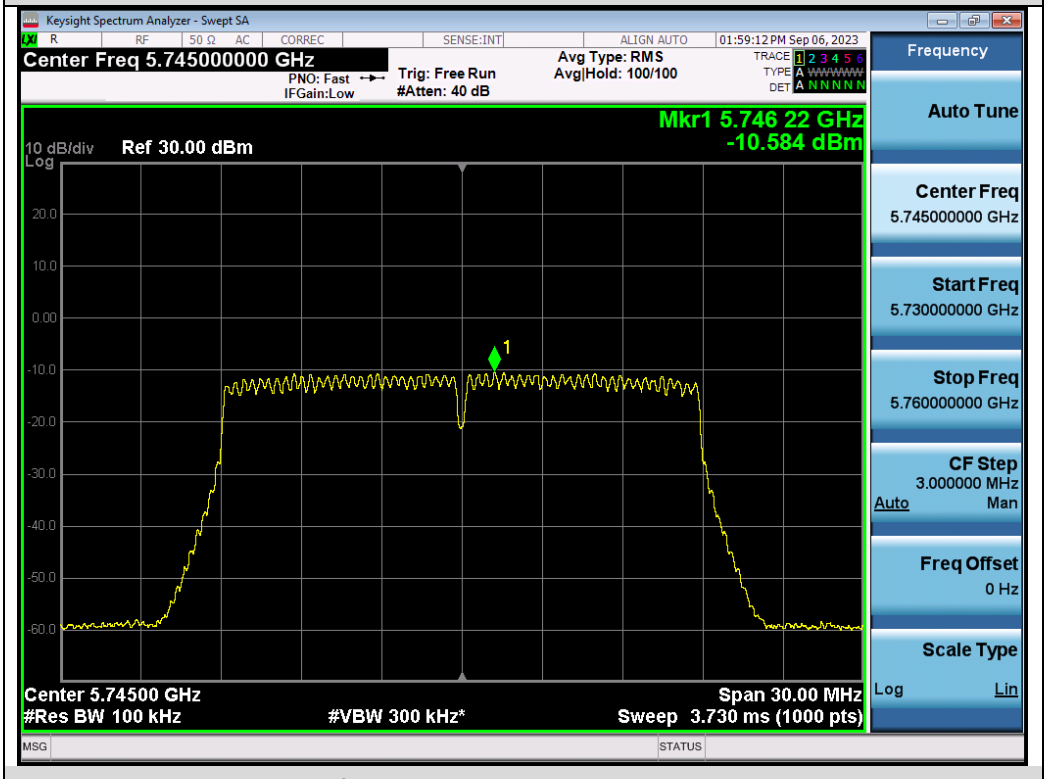
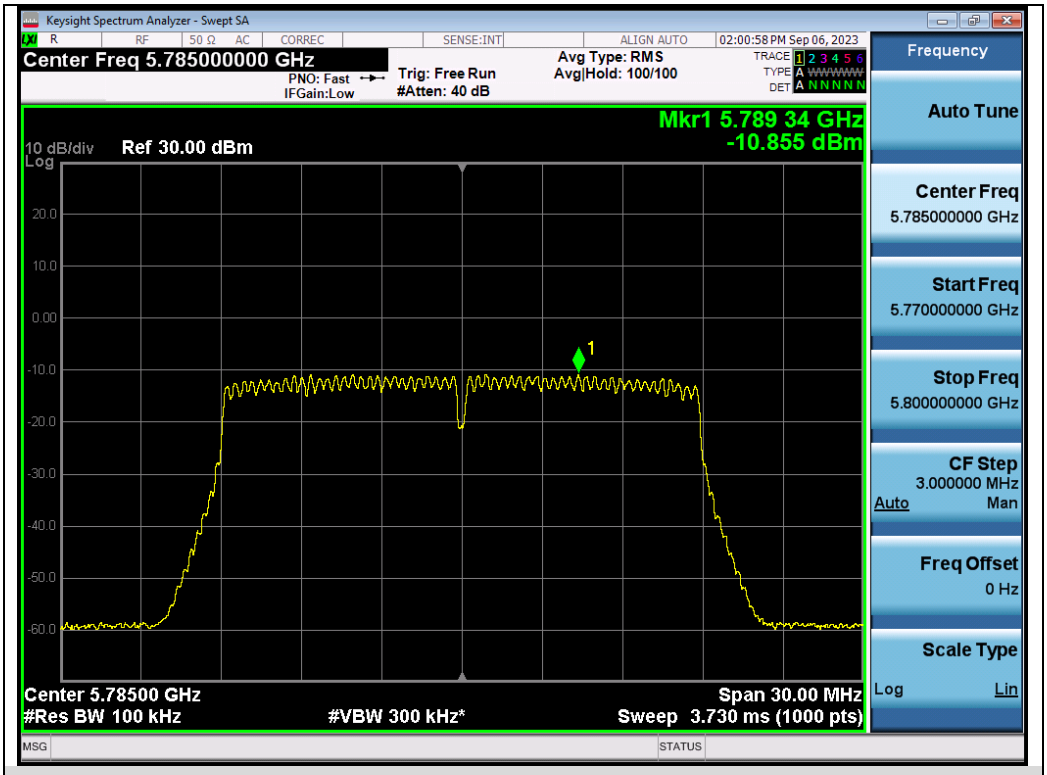


Test_Graph_802.11a_ANT1_5825_6Mbps_PSD



Test_Graph_802.11n20_ANT1_5745_MCS0_PSD



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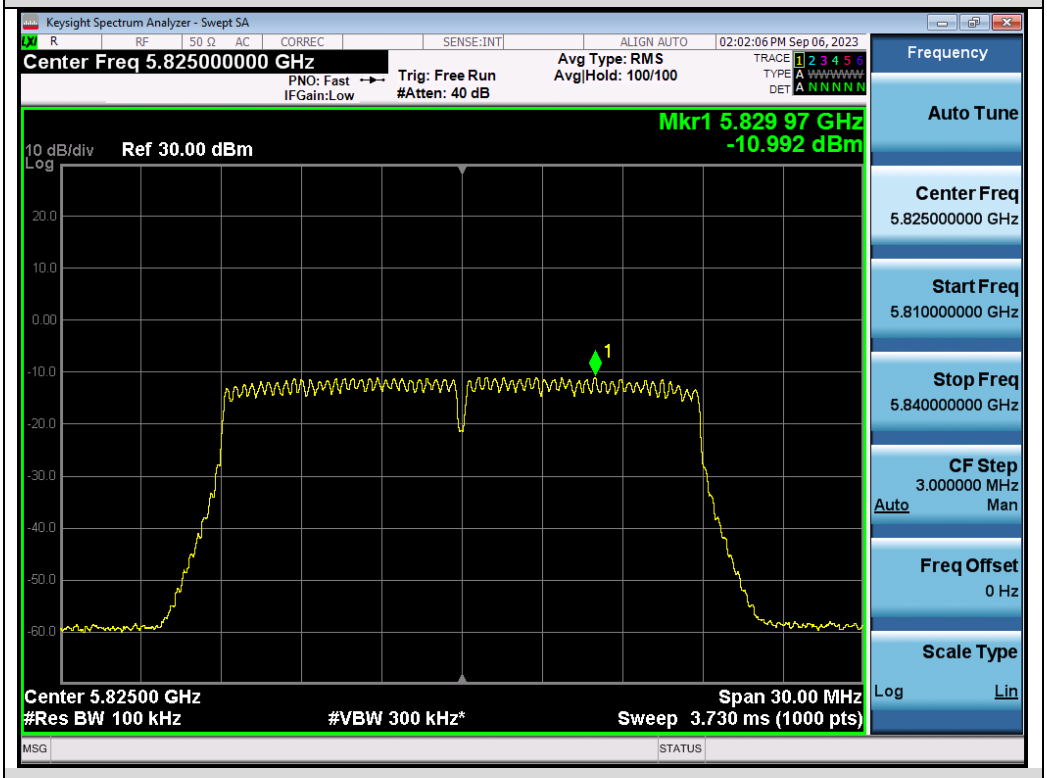
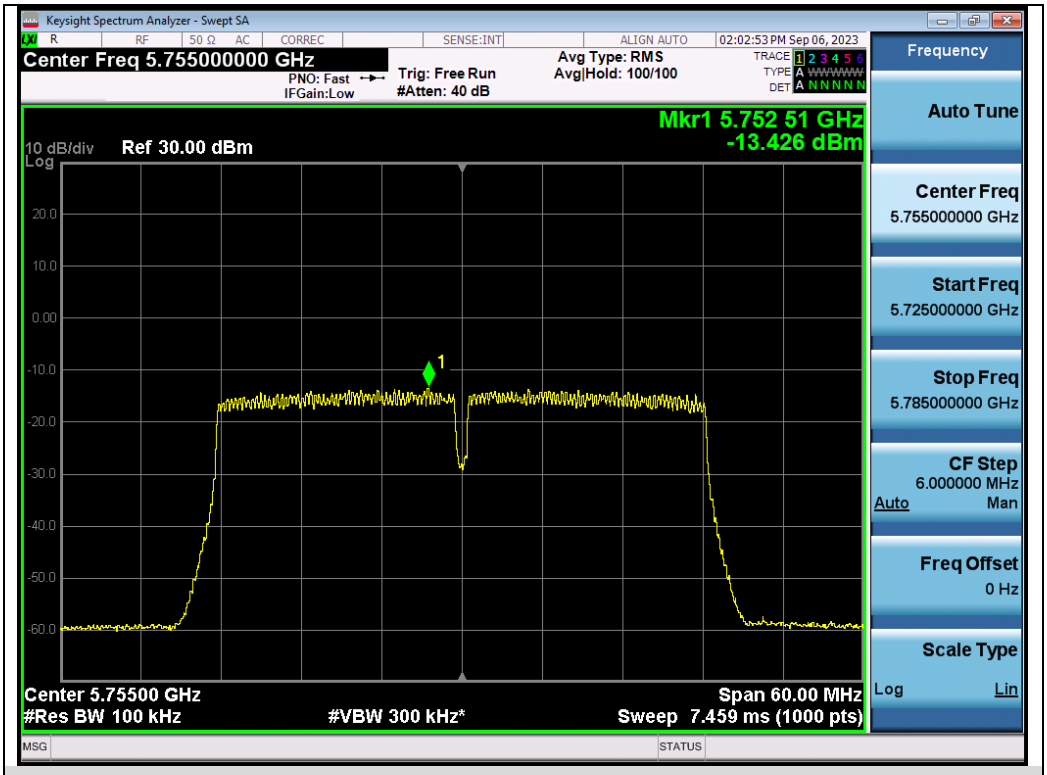
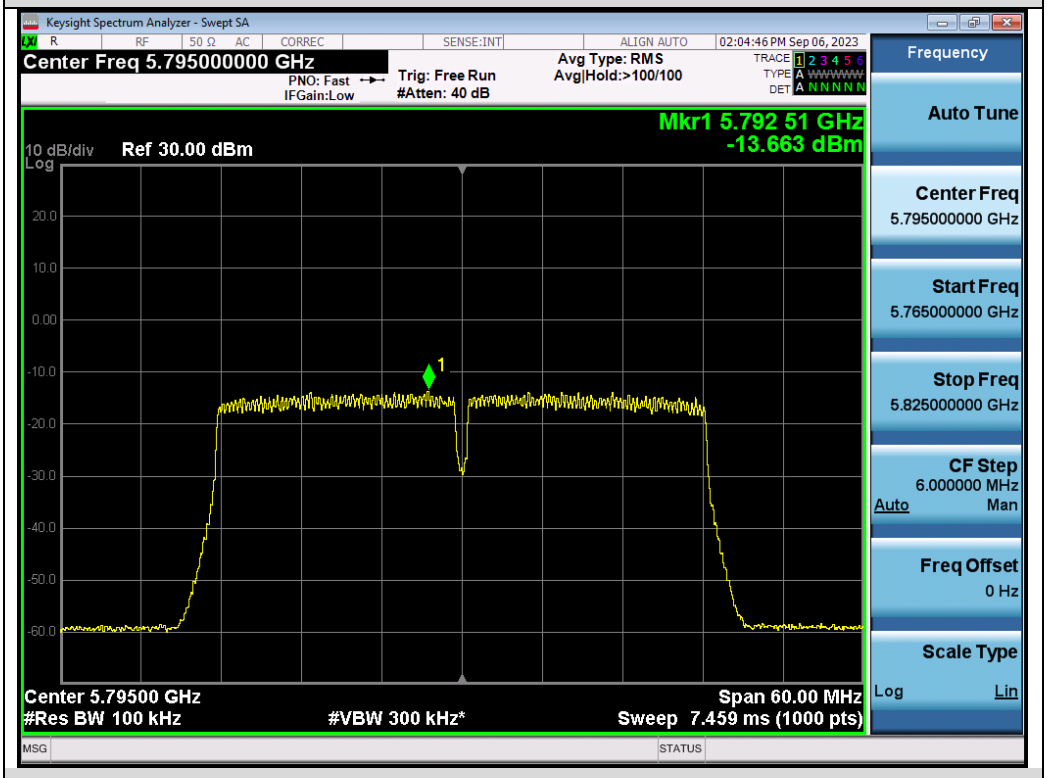


Test_Graph_802.11n20_ANT1_5825_MCS0_PSD



Test_Graph_802.11n40_ANT1_5755_MCS0_PSD



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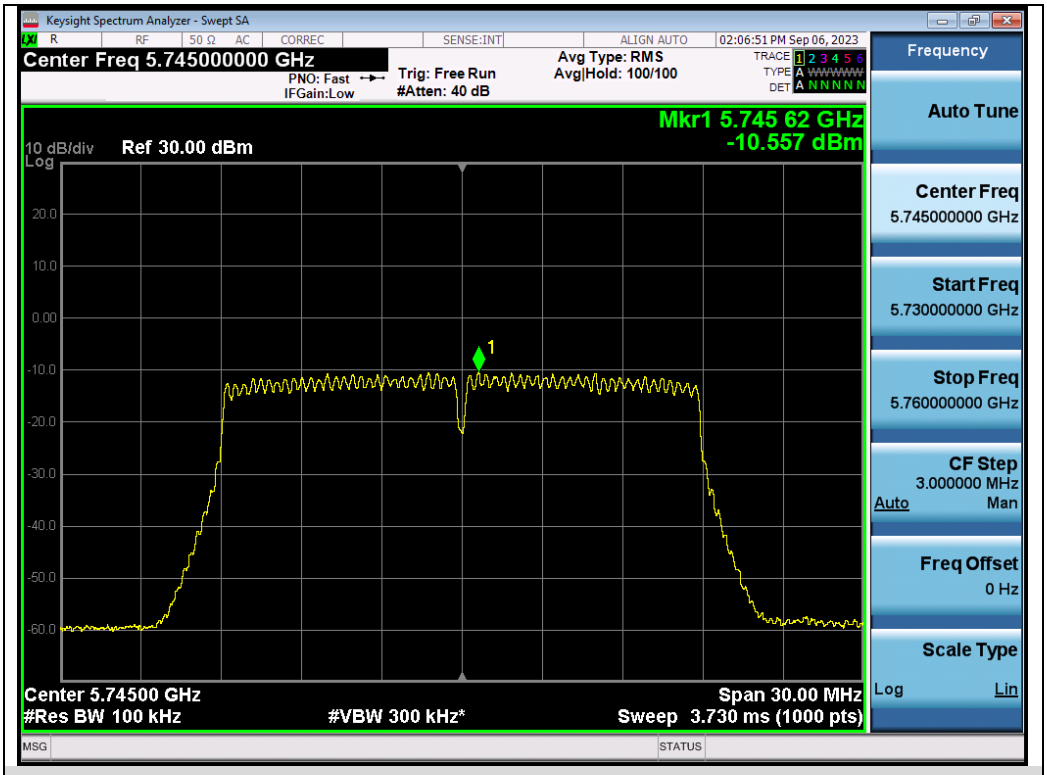
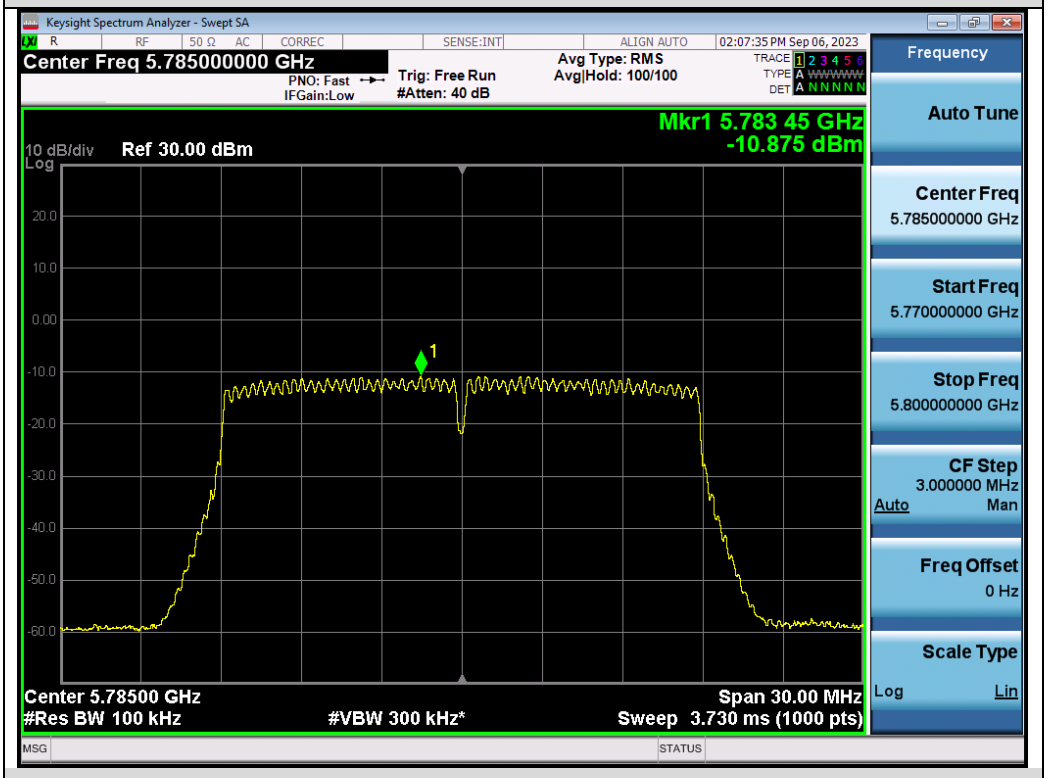
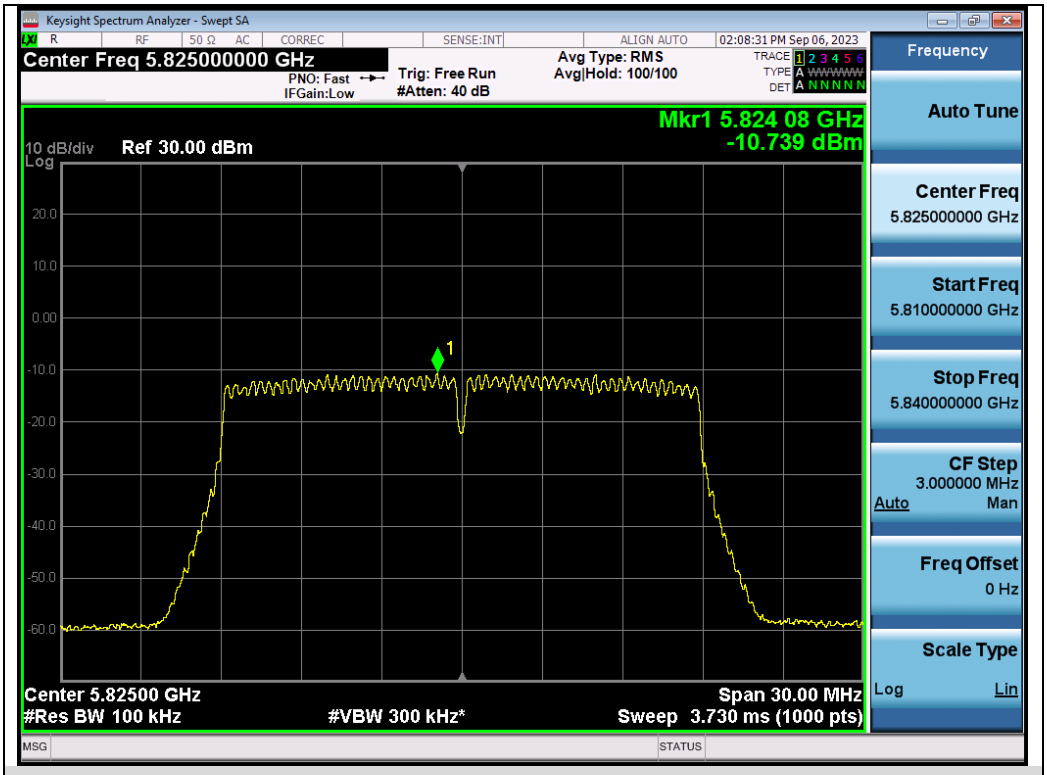


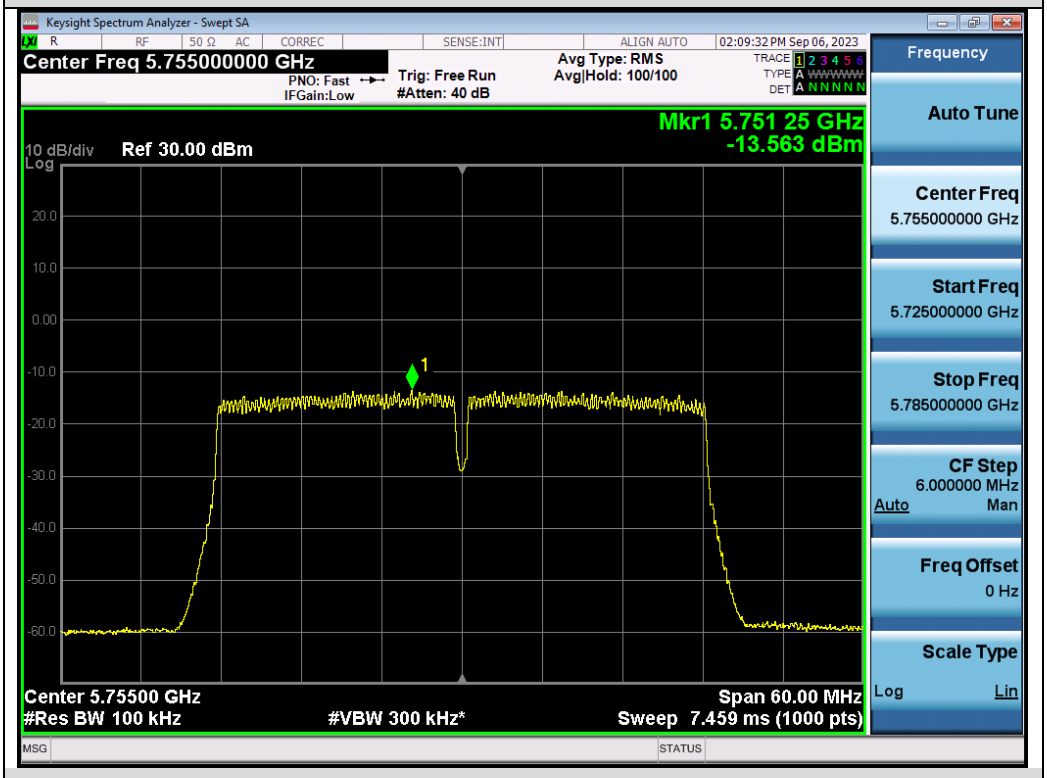
Test_Graph_802.11ac20_ANT1_5745_MCS0_PSD



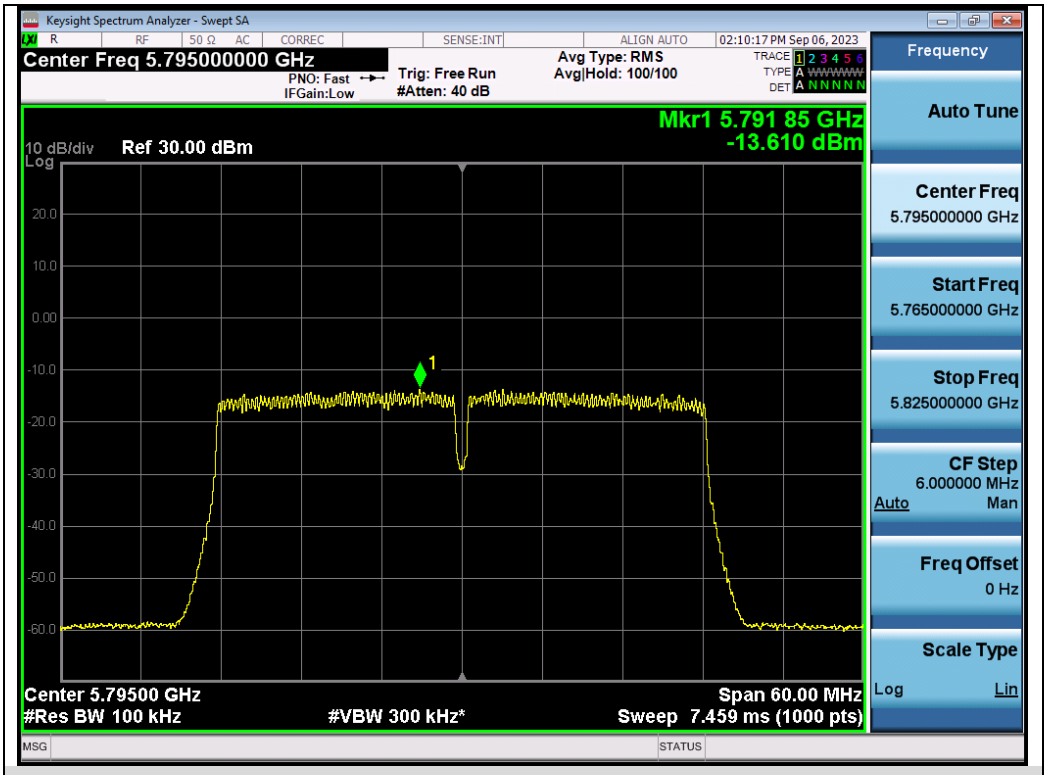
Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5825_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD



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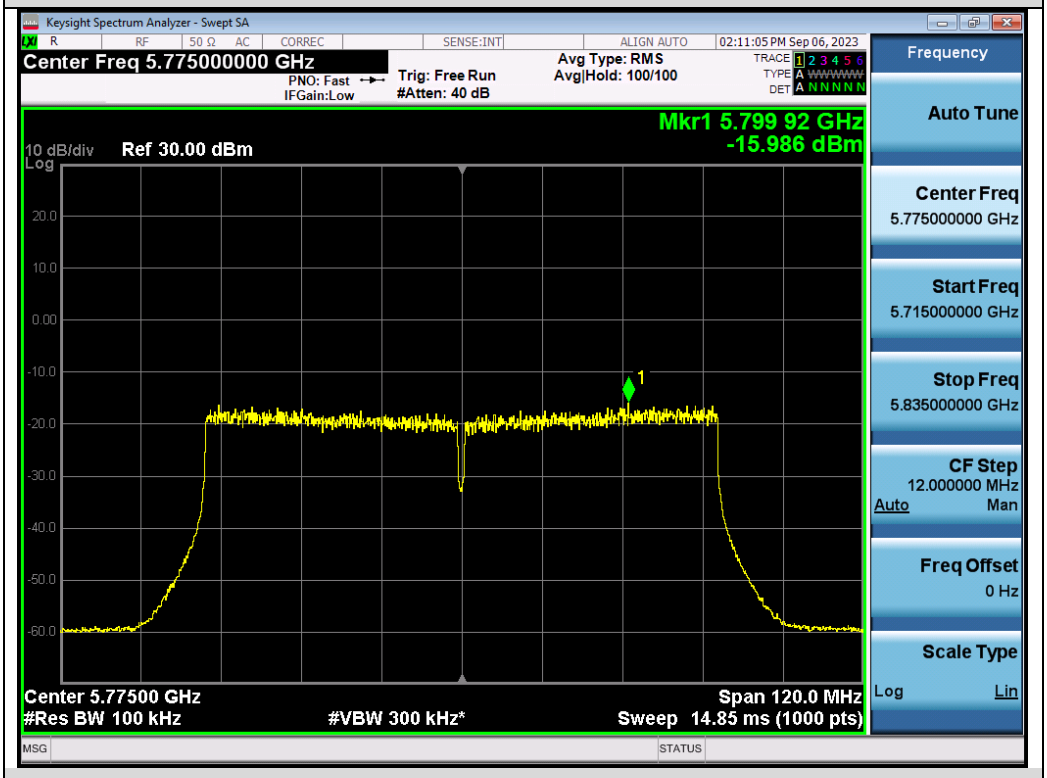
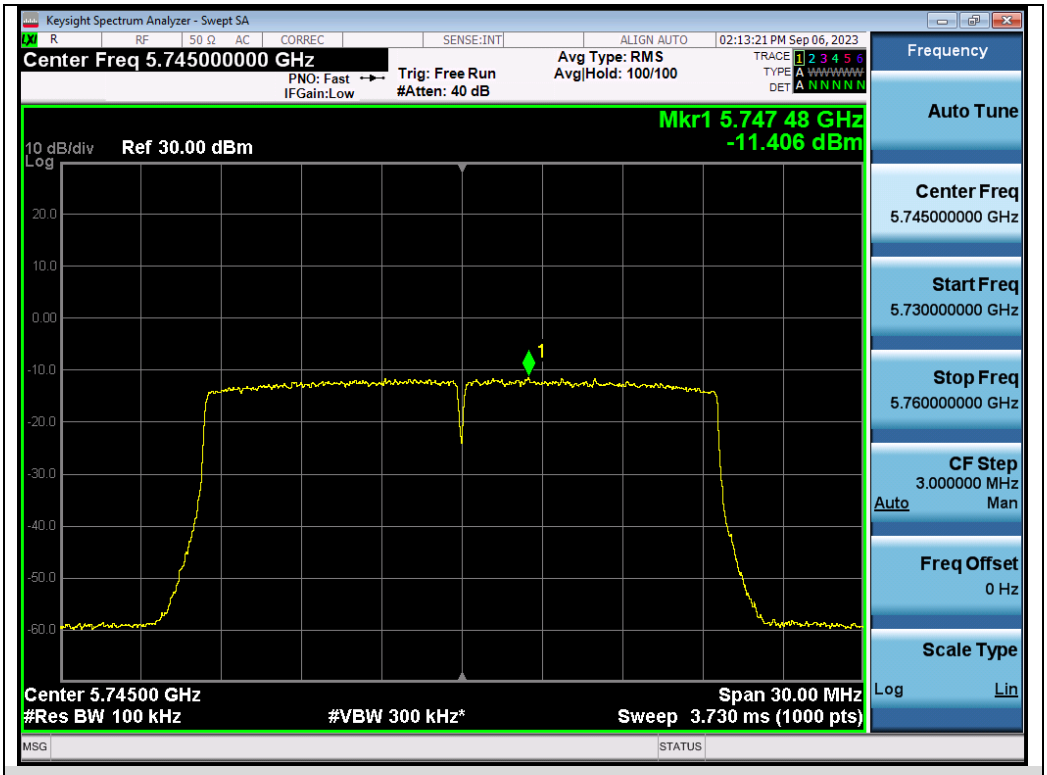
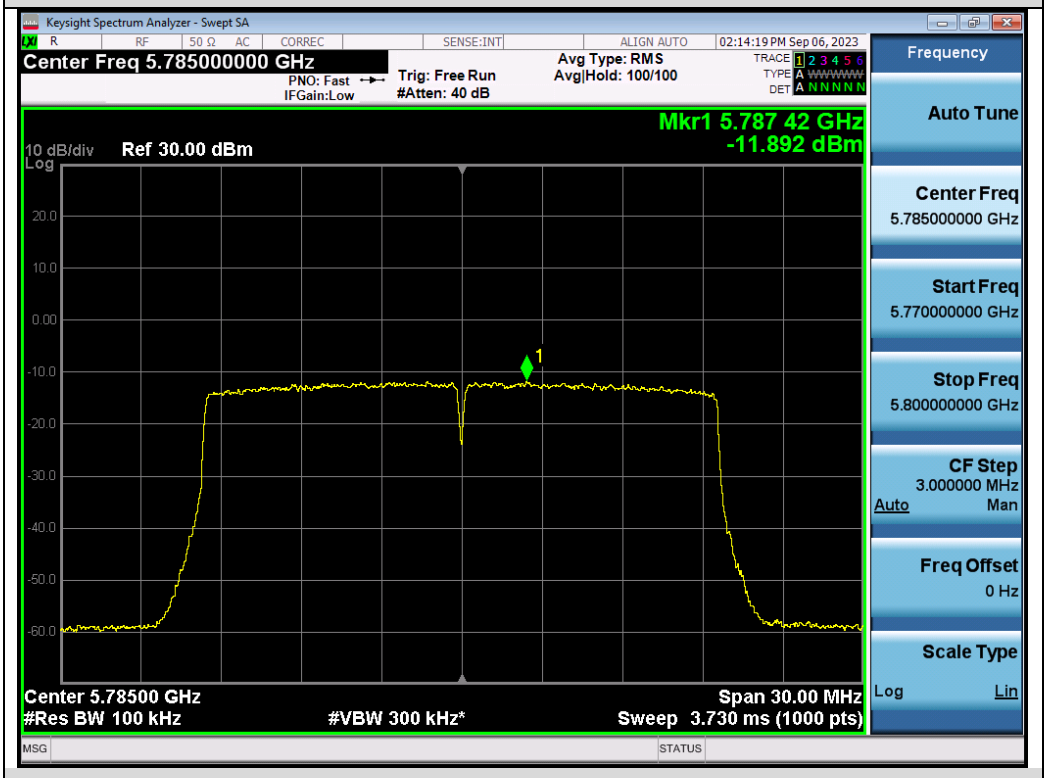


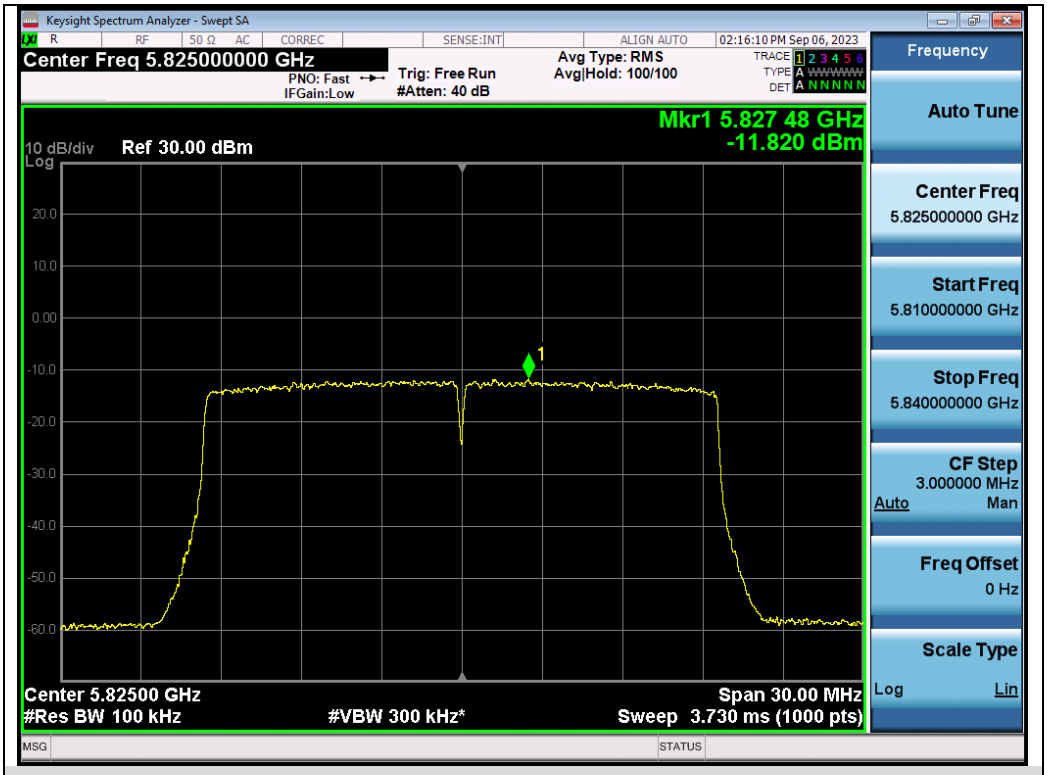
Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD



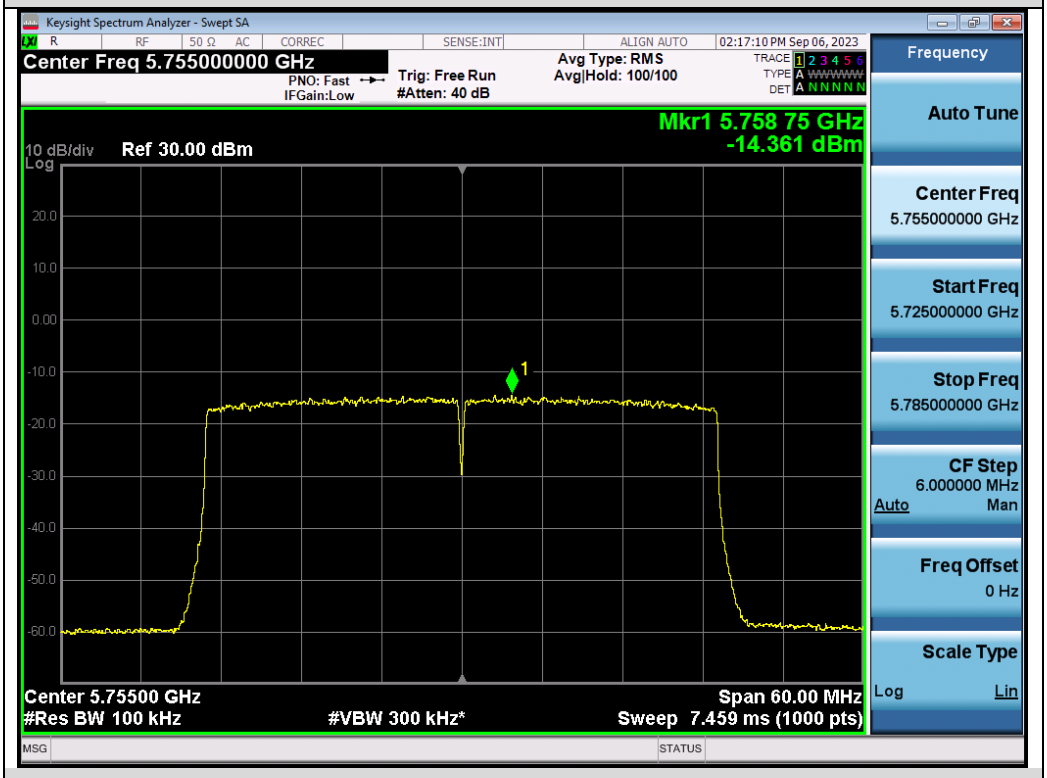
Test_Graph_802.11ax20_ANT1_5745_MCS0_PSD



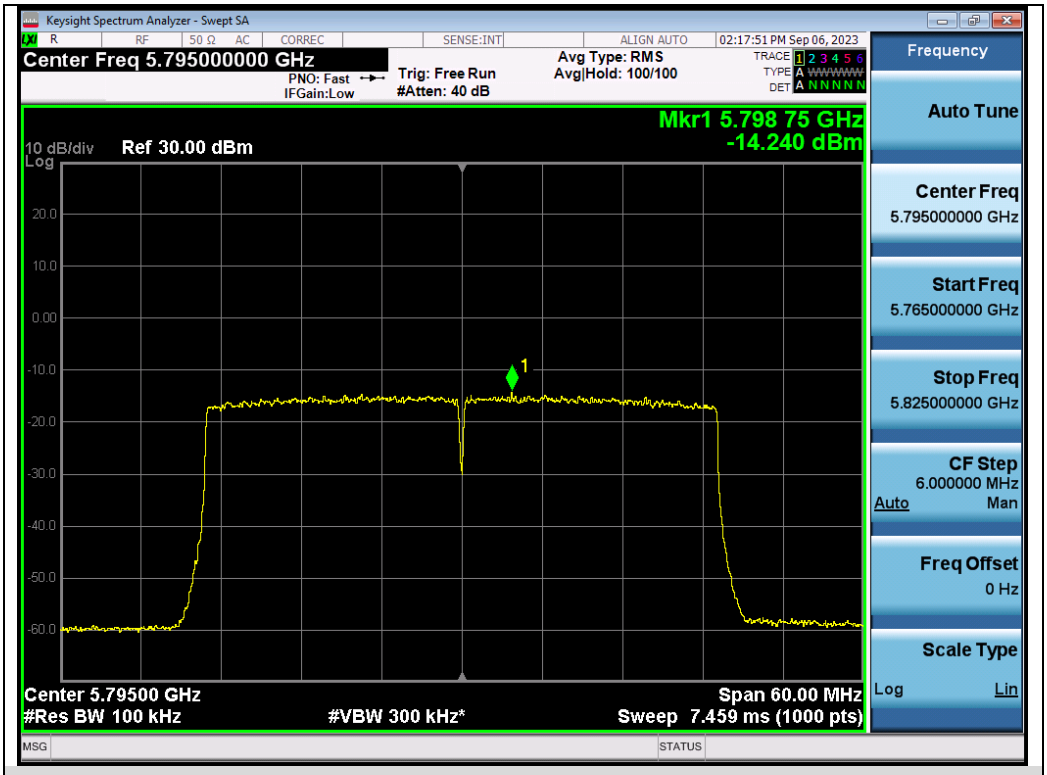
Test_Graph_802.11ax20_ANT1_5785_MCS0_PSD



Test_Graph_802.11ax20_ANT1_5825_MCS0_PSD

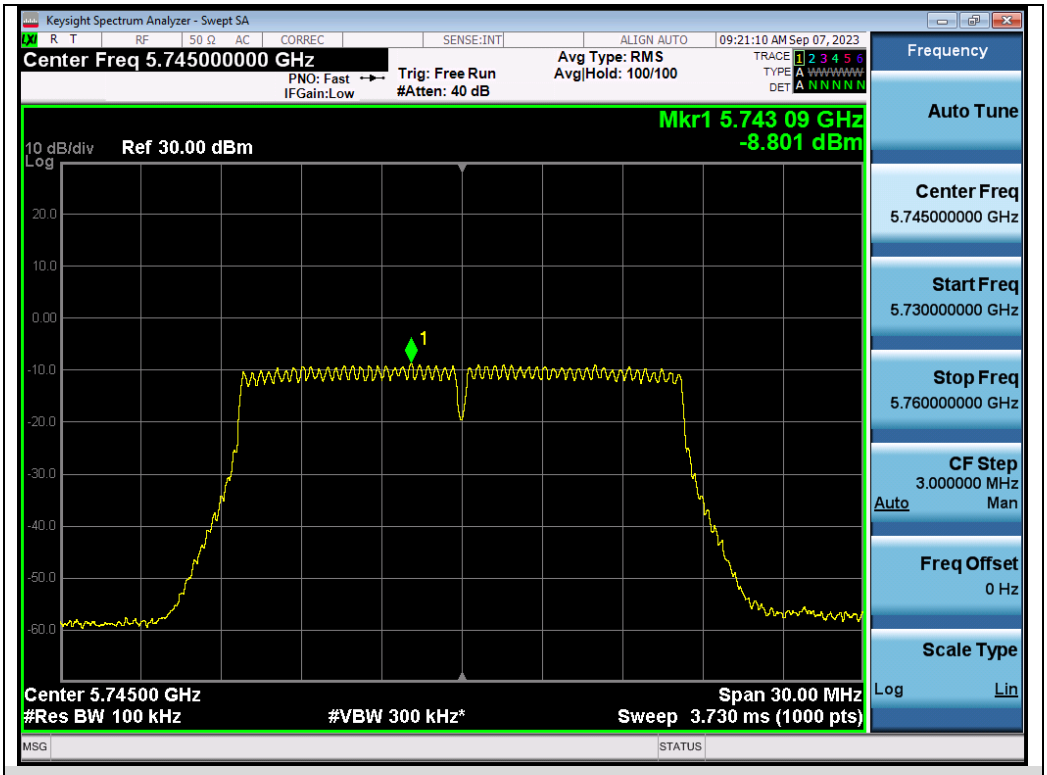


Test_Graph_802.11ax40_ANT1_5755_MCS0_PSD

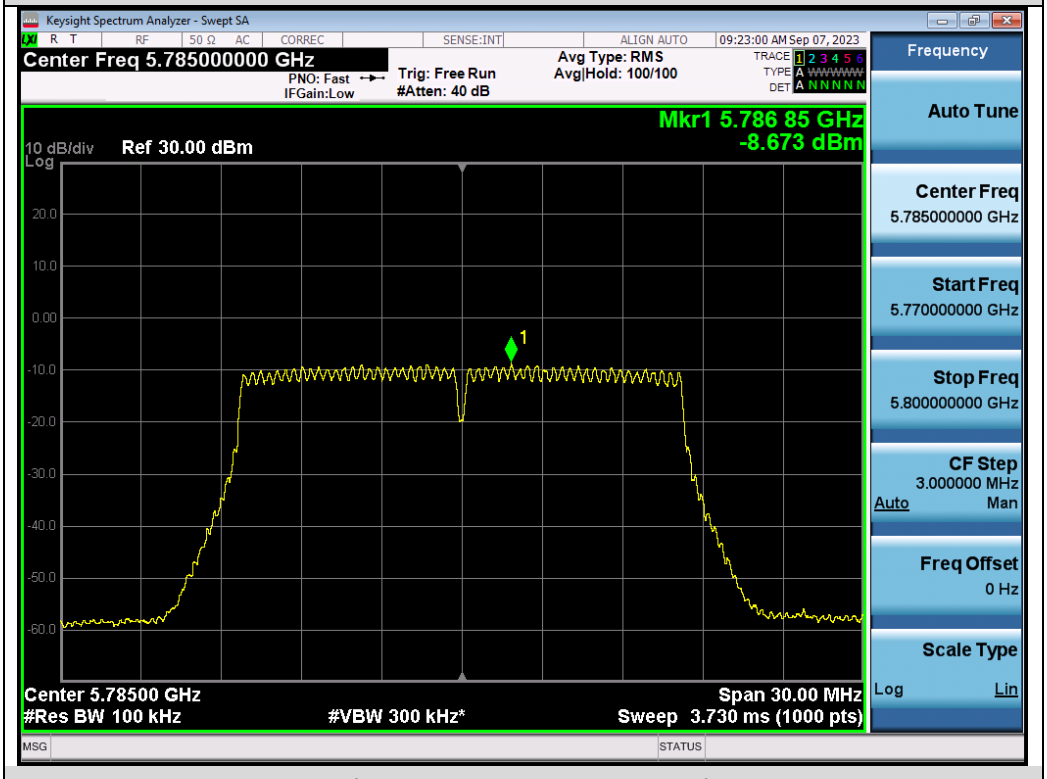


Test_Graph_802.11ax40_ANT1_5795_MCS0_PSD

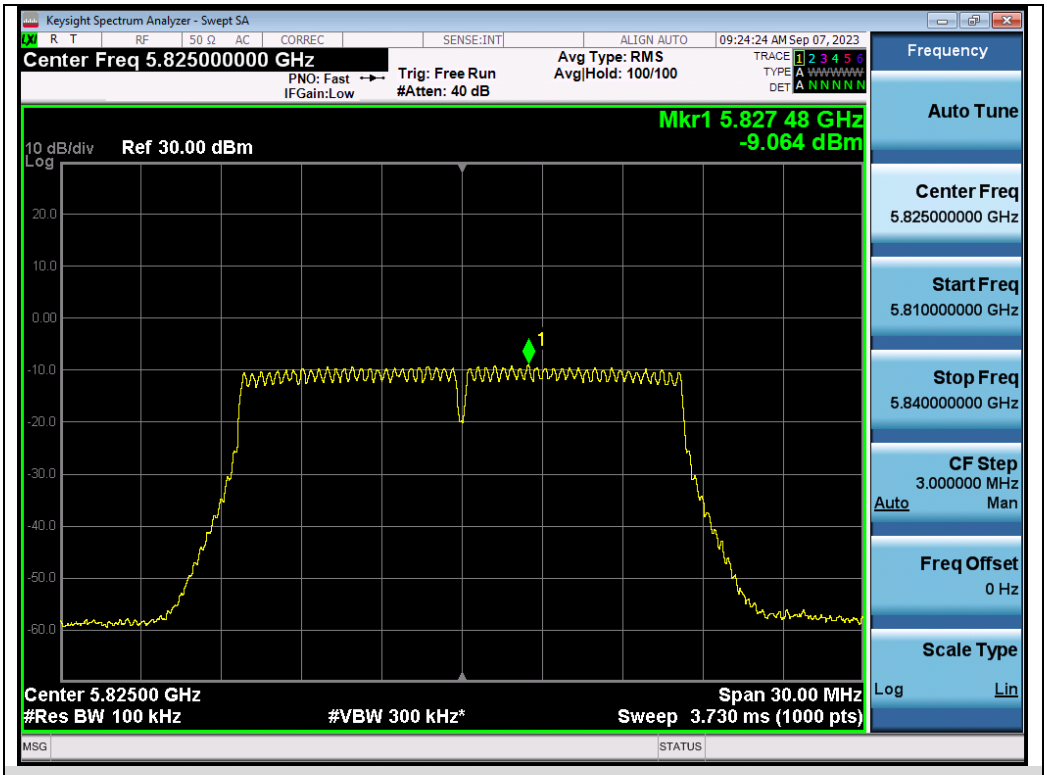
Test_Graph_802.11ax80_ANT1_5775_MCS0_PSD



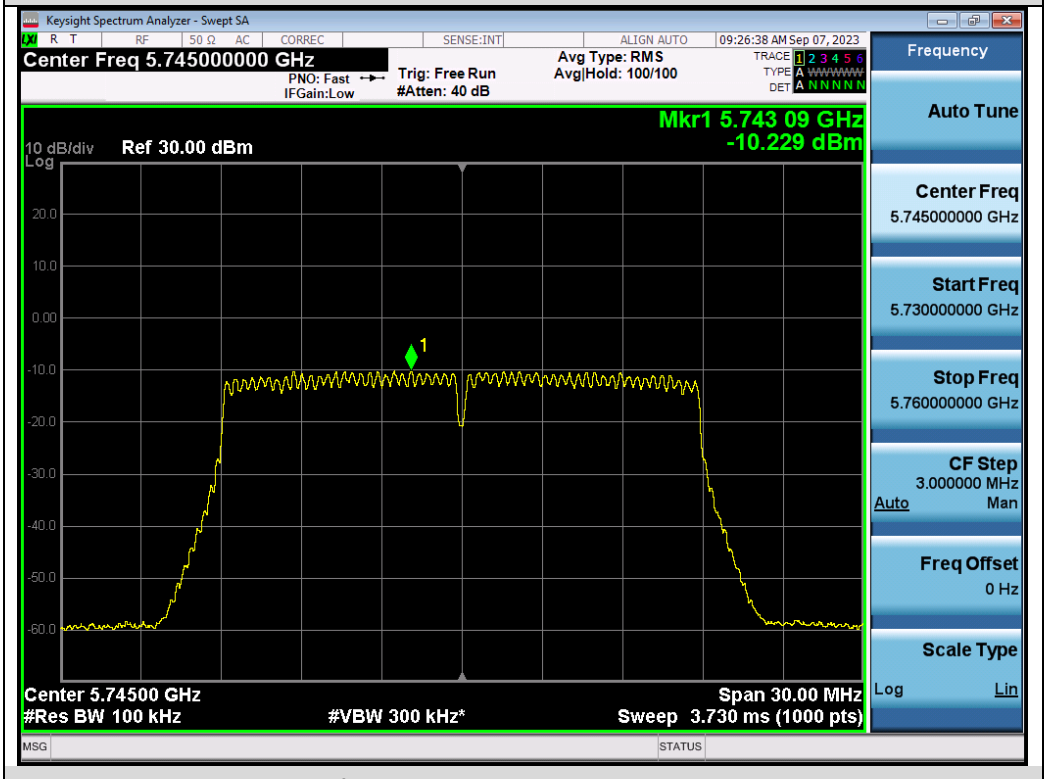
Test_Graph_802.11a_ANT2_5745_6Mbps_PSD



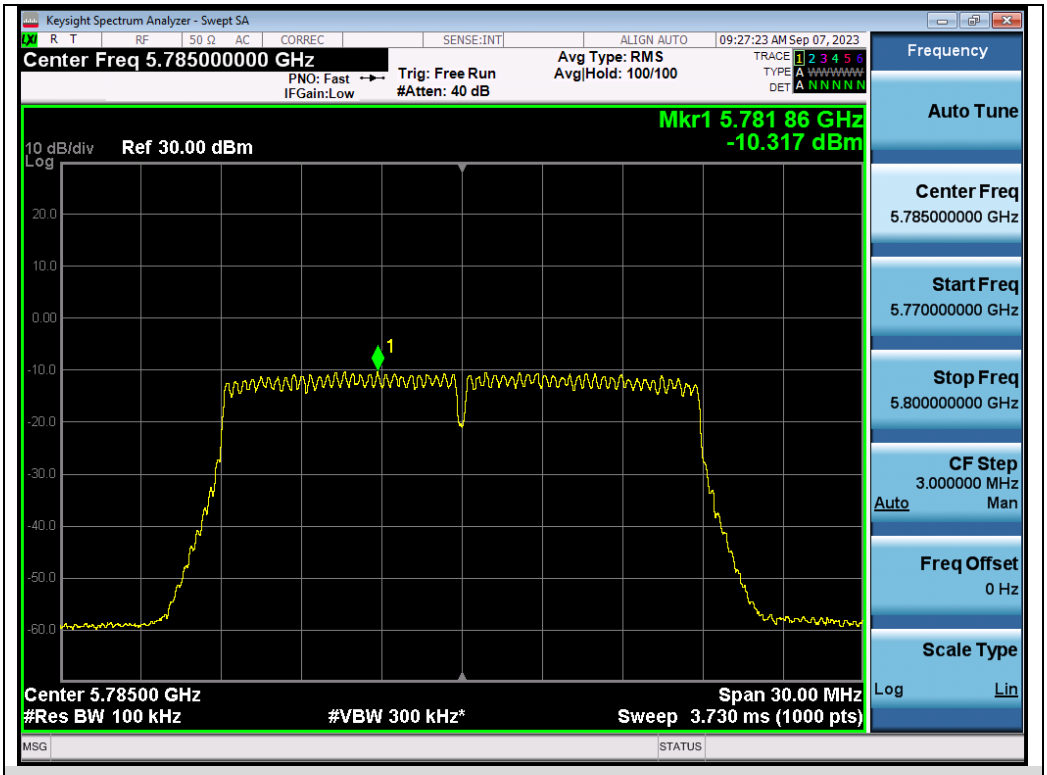
Test_Graph_802.11a_ANT2_5785_6Mbps_PSD



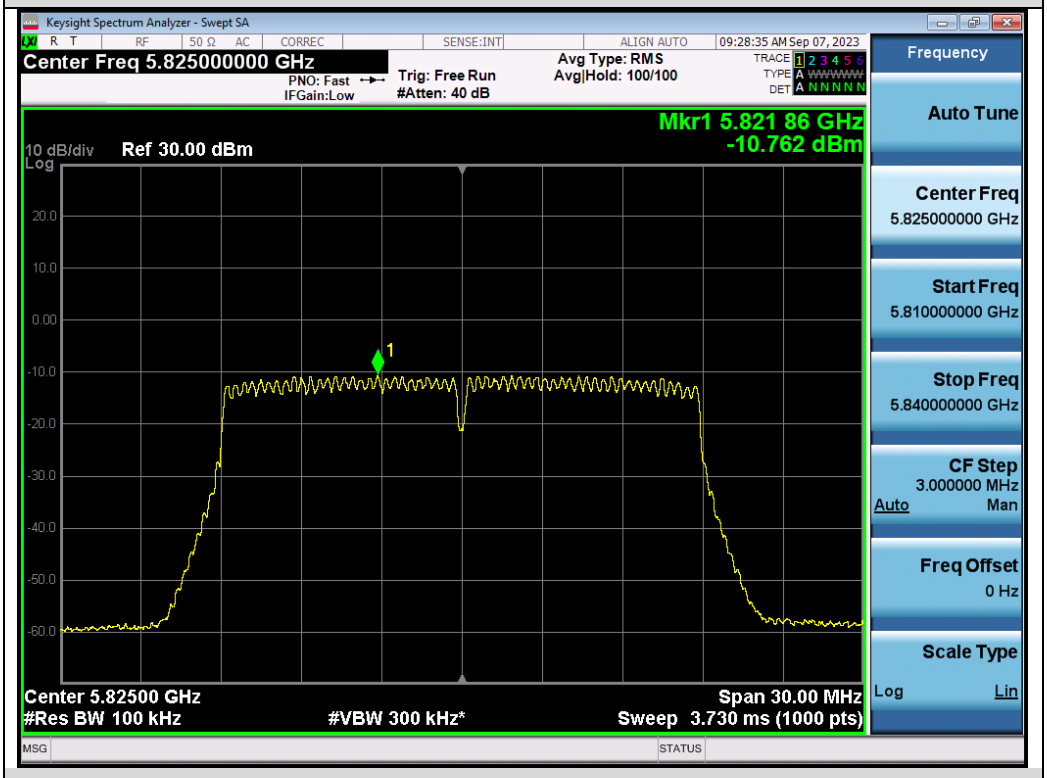
Test_Graph_802.11a_ANT2_5825_6Mbps_PSD



Test_Graph_802.11n20_ANT2_5745_MCS0_PSD



Test_Graph_802.11n20_ANT2_5785_MCS0_PSD



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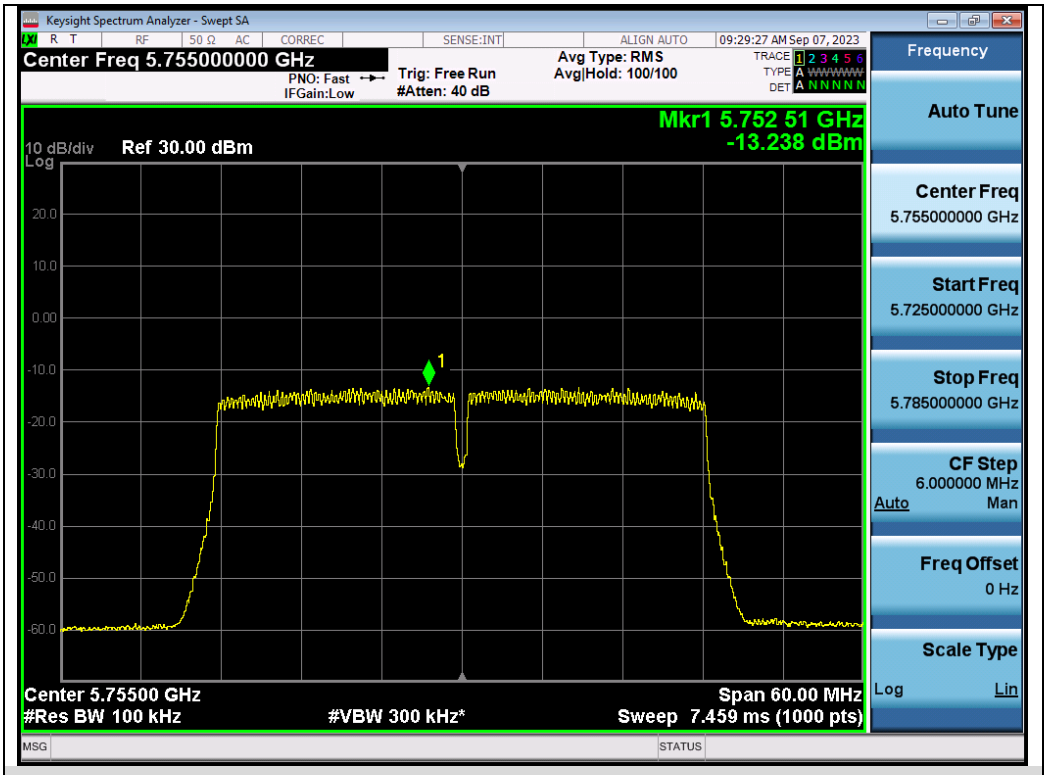
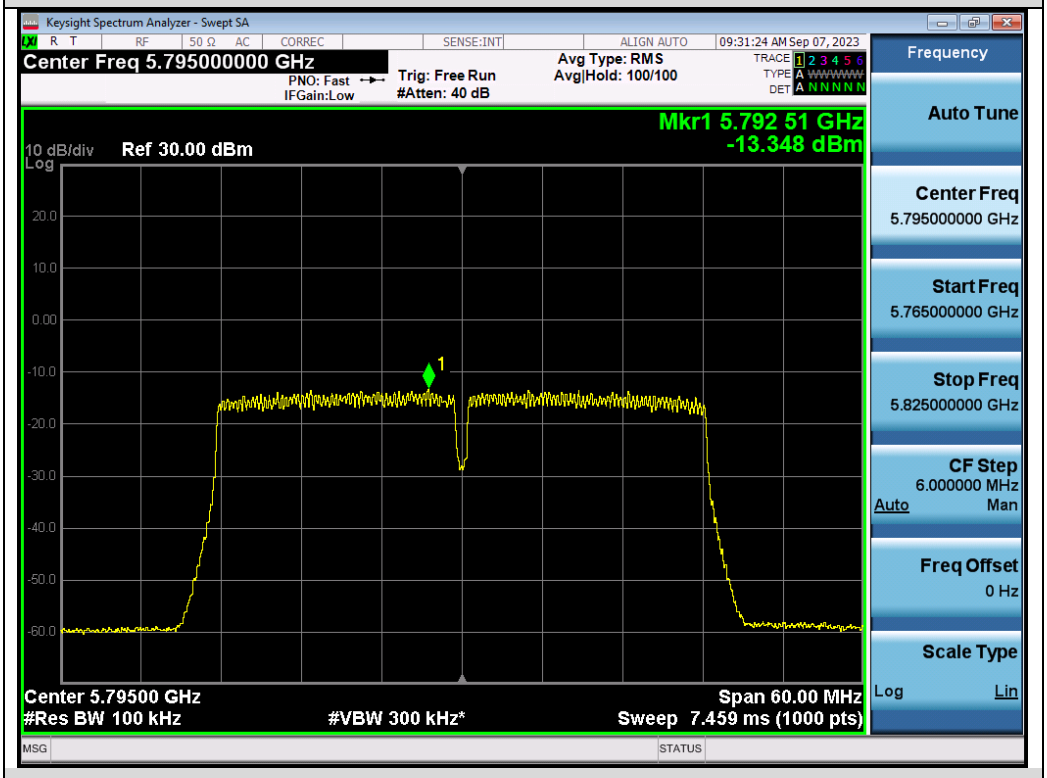
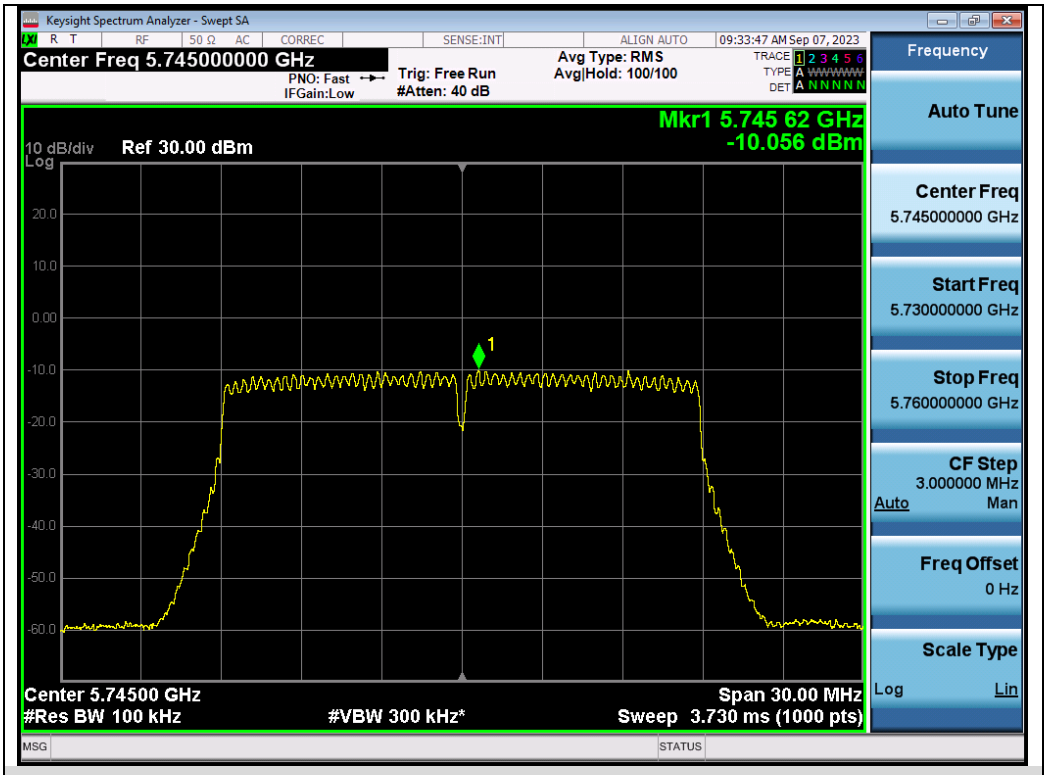


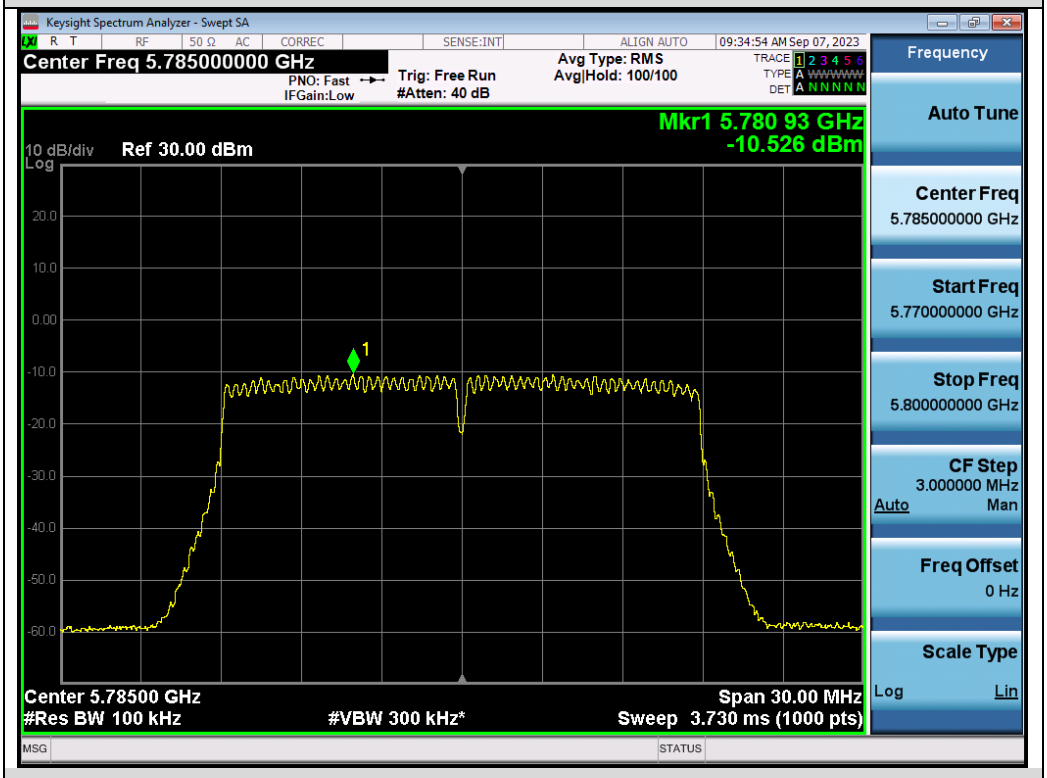
Test_Graph_802.11n40_ANT2_5755_MCS0_PSD



Test_Graph_802.11n40_ANT2_5795_MCS0_PSD



Test_Graph_802.11ac20_ANT2_5745_MCS0_PSD



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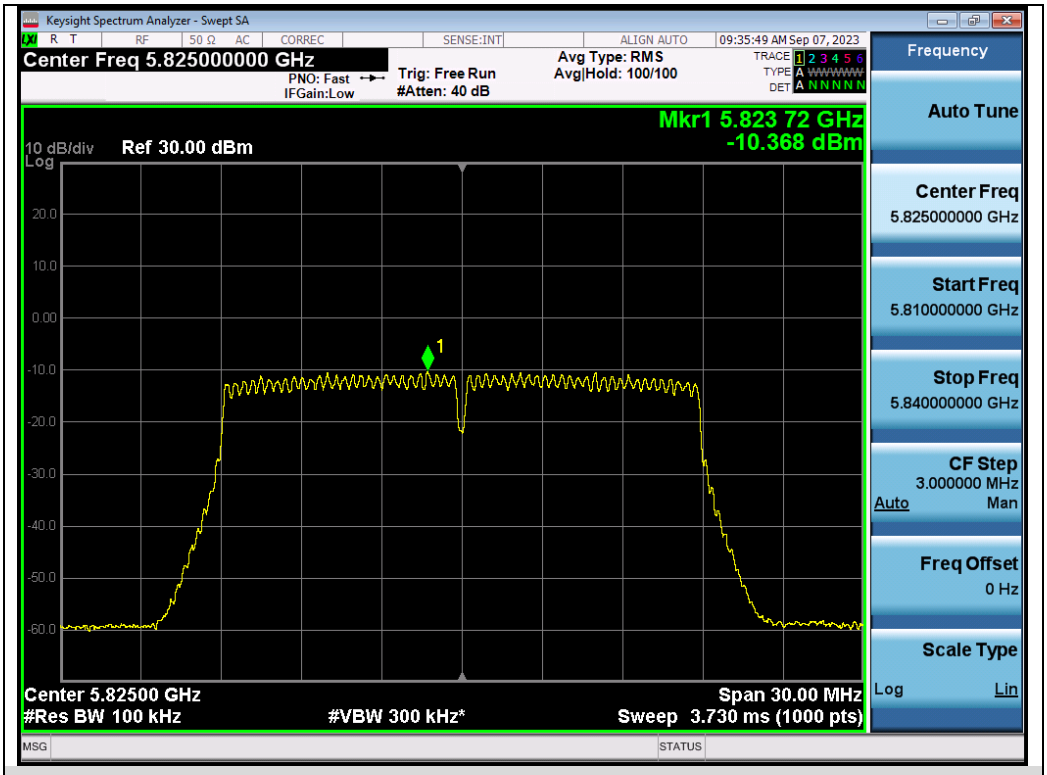
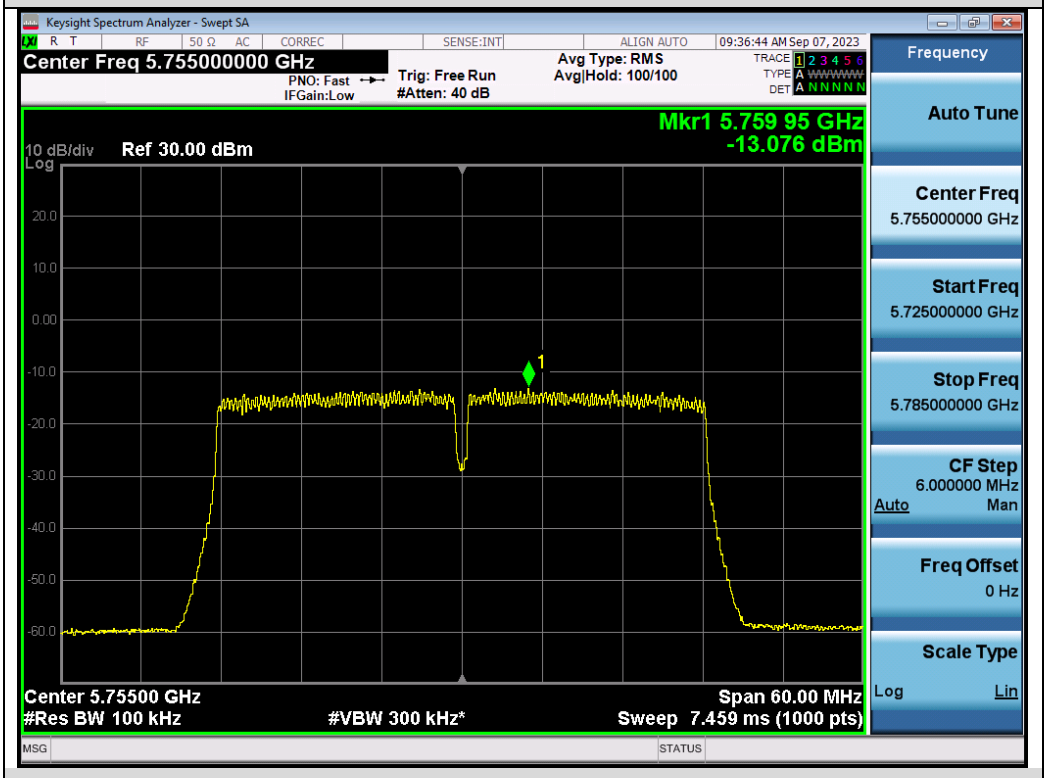
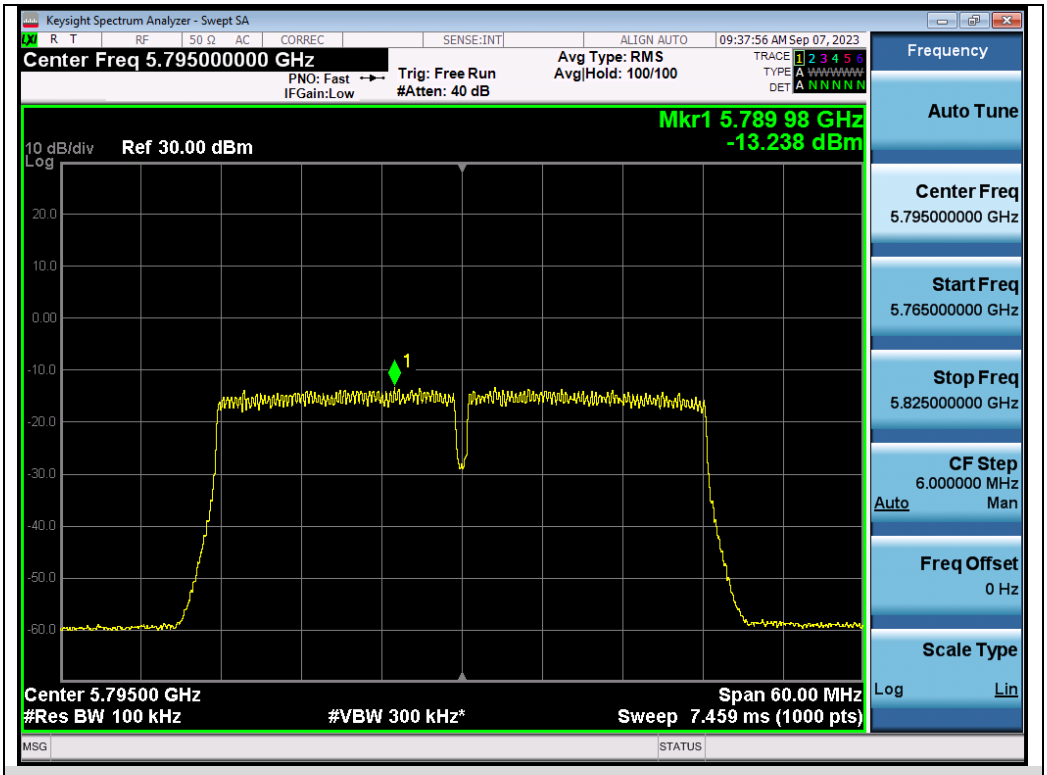


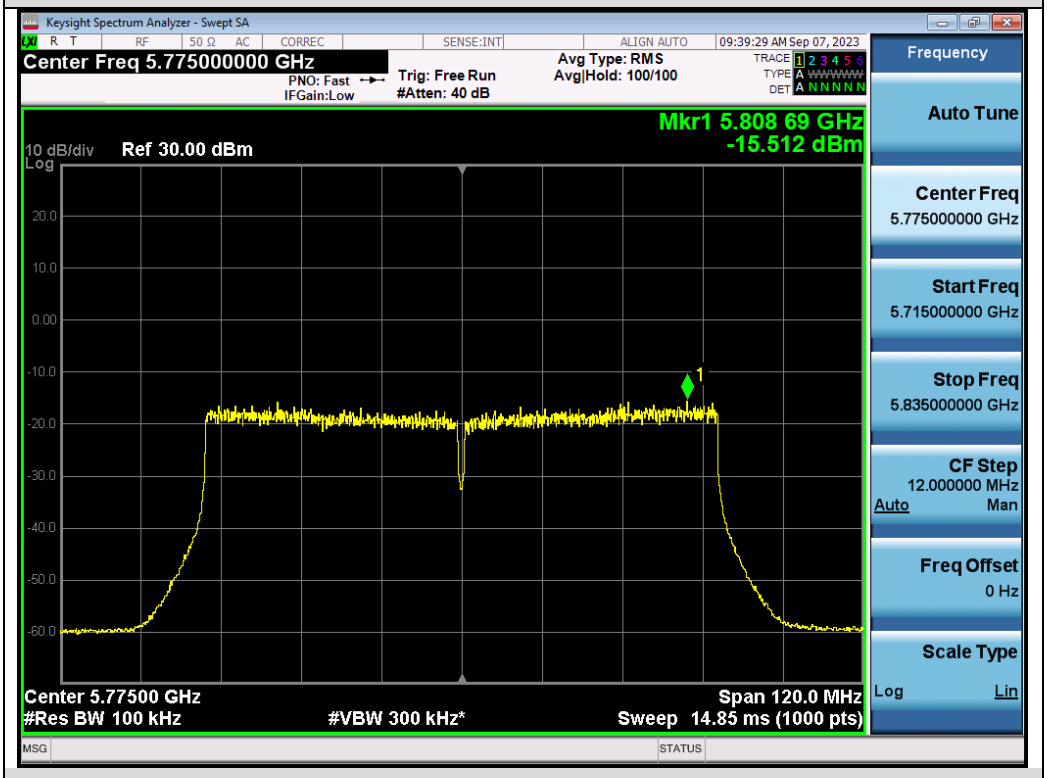
Test_Graph_802.11ac20_ANT2_5825_MCS9_PSD



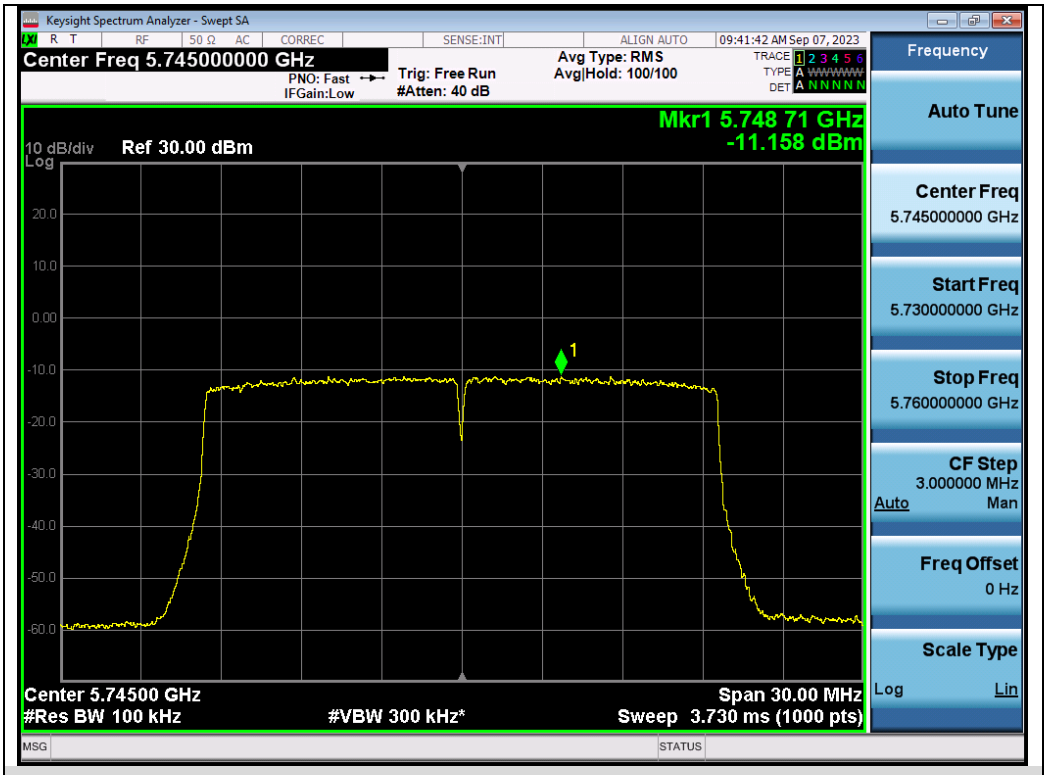
Test_Graph_802.11ac40_ANT2_5755_MCS9_PSD



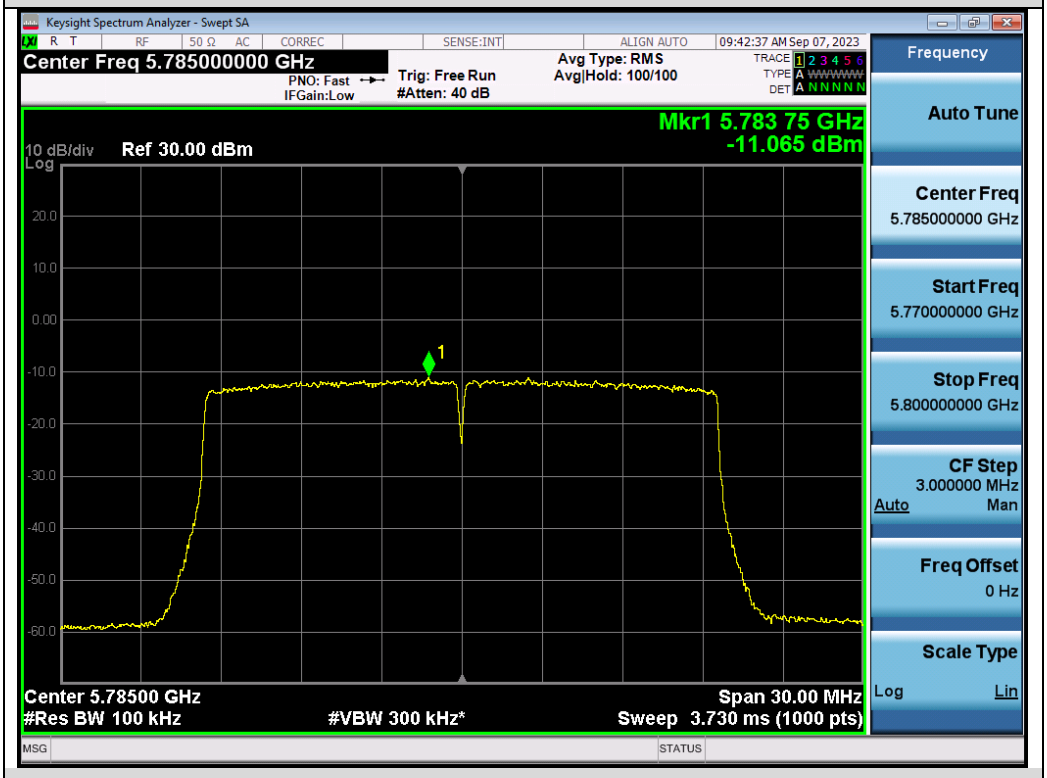
Test_Graph_802.11ac40_ANT2_5795_MCS9_PSD



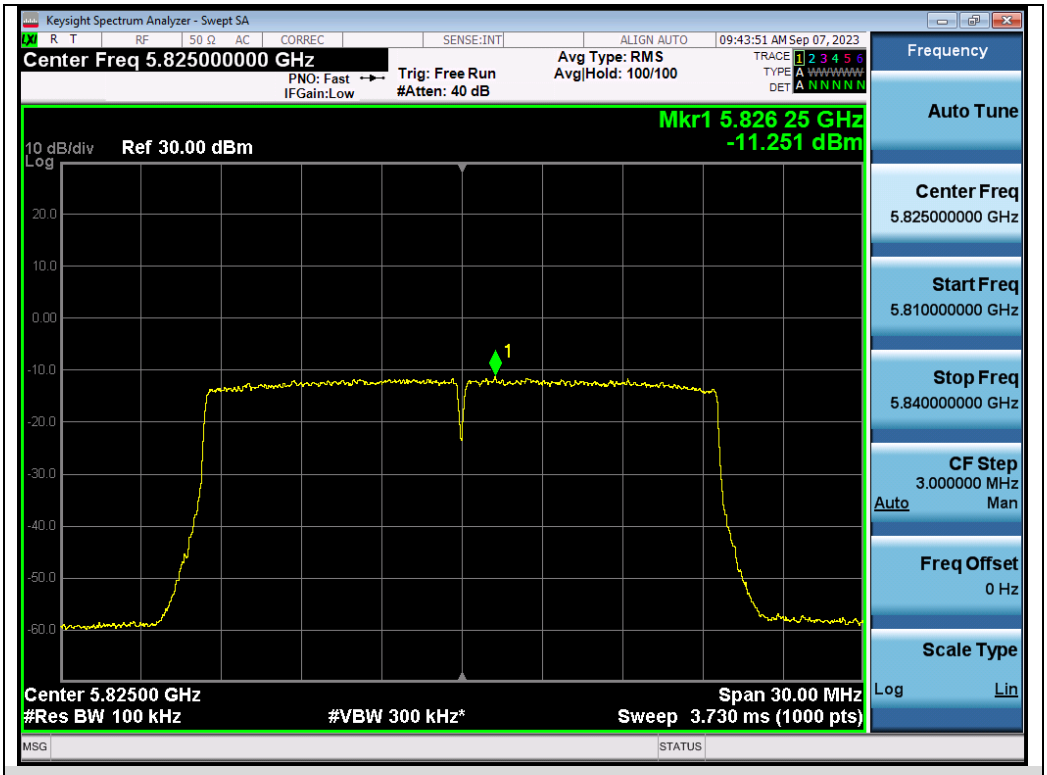
Test_Graph_802.11ac80_ANT2_5775_MCS9_PSD



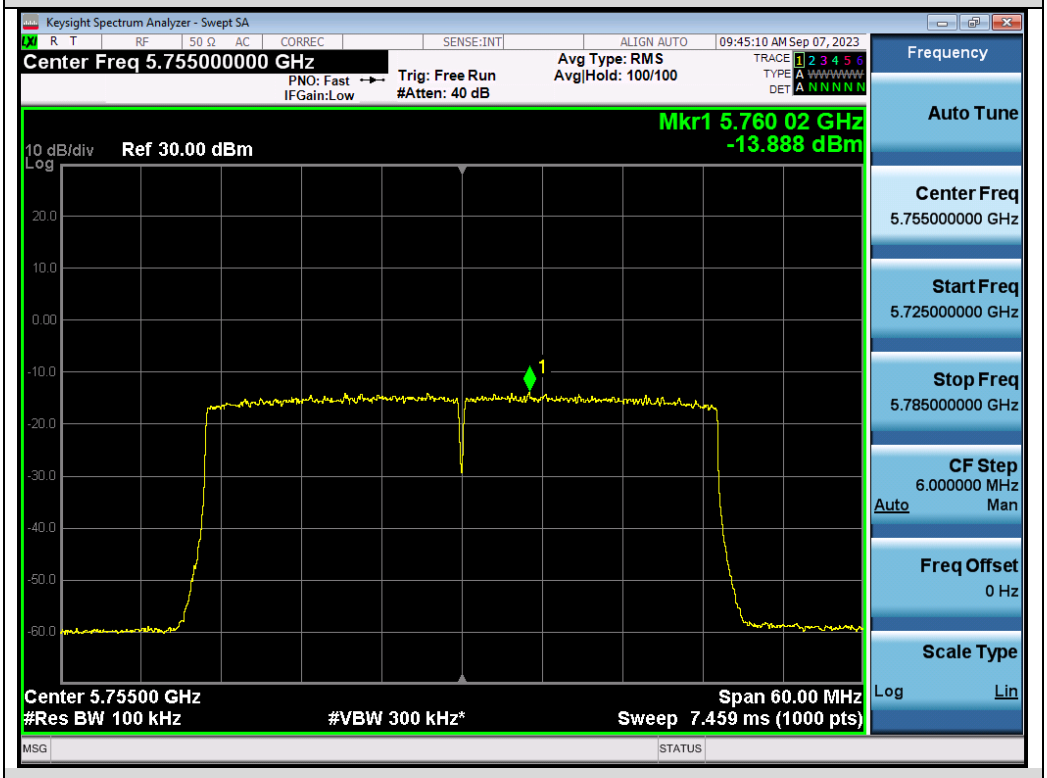
Test_Graph_802.11ax20_ANT2_5745_MCS0_PSD



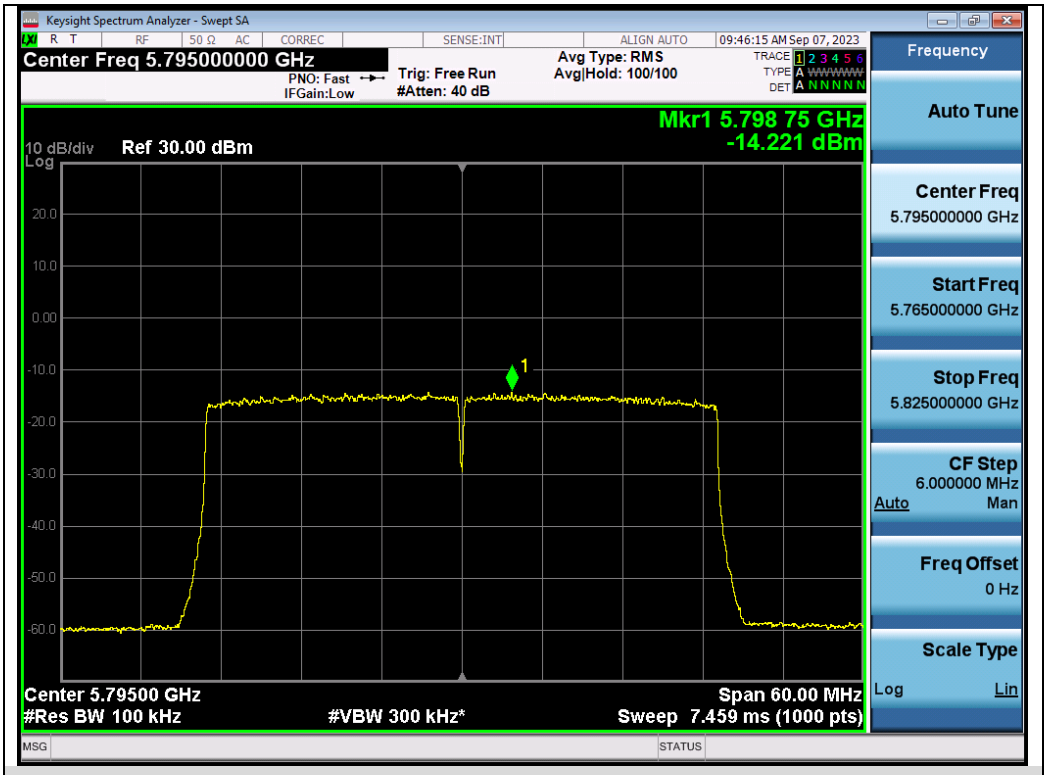
Test_Graph_802.11ax20_ANT2_5785_MCS0_PSD



Test_Graph_802.11ax20_ANT2_5825_MCS0_PSD



Test_Graph_802.11ax40_ANT2_5755_MCS0_PSD



Test_Graph_802.11ax40_ANT2_5795_MCS0_PSD

Test_Graph_802.11ax80_ANT2_5775_MCS0_PSD

10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

Restricted bands	Applicable to	Limit	
	789033 D02 General UNII Test Procedures New Rules v02r01	Field strength at 3m (dBuV/m)	
		PK: 74	AV: 54
Out of the restricted bands	Applicable to	EIRP Limit (dBm/MHz)	Equivalent field Strength at 3m (dBuV/m)
	FCC 15.407(b)(1)	PK: -27	PK: 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See Note 2	

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

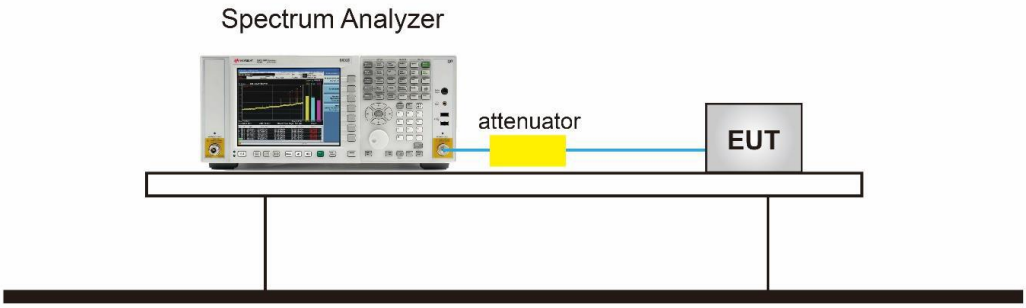
$$E = \frac{1000000 \sqrt{30 P}}{3}$$ μV/m, where P is the eirp (Watts).

Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

10.2 Measurement Procedure

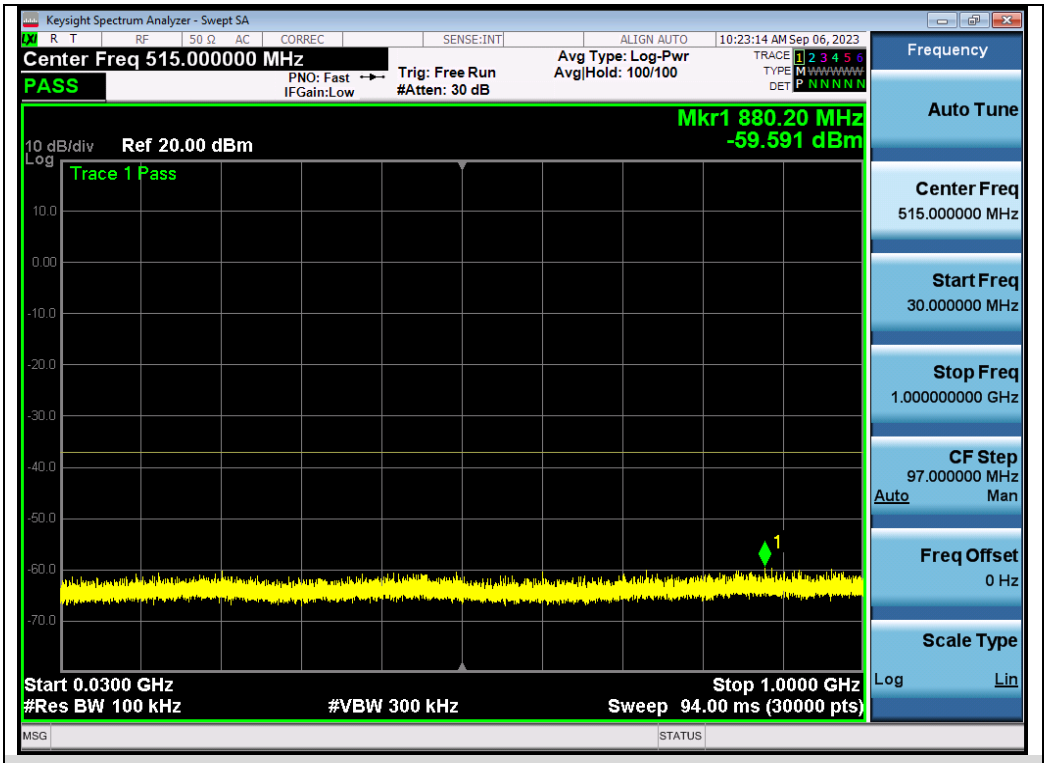
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency 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.

10.3 Measurement Setup (Block Diagram of Configuration)

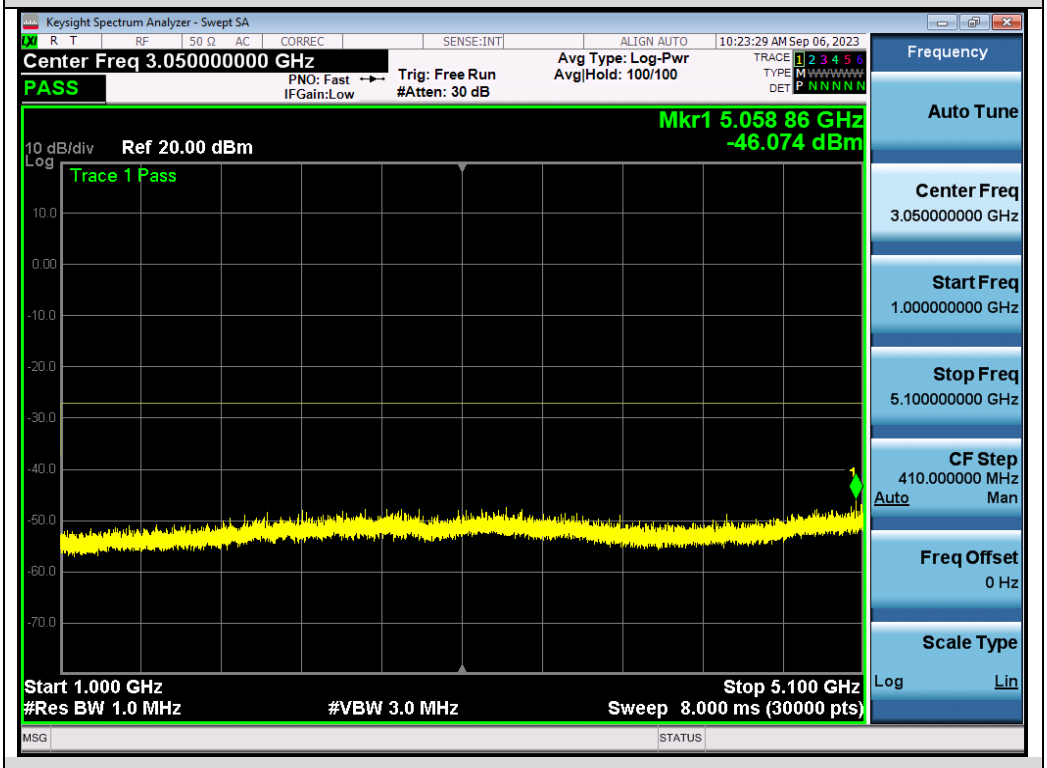


10.4 Measurement Results

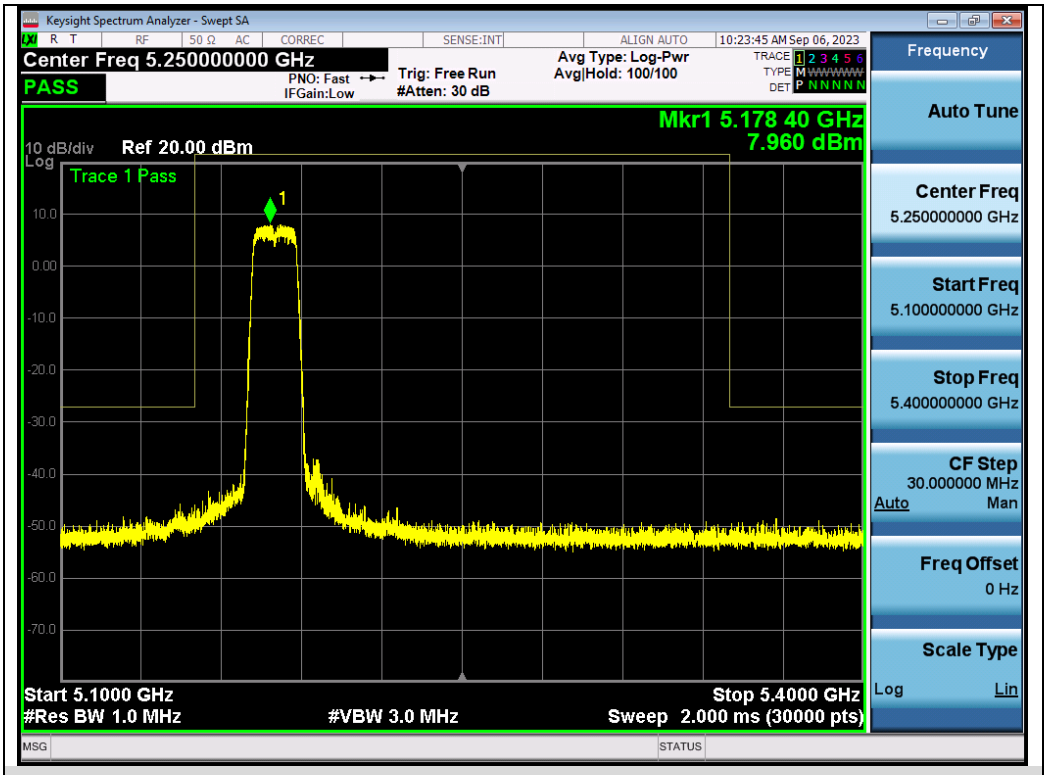
Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band for transmitters operating in the 5.15-5.25 GHz band



Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 1

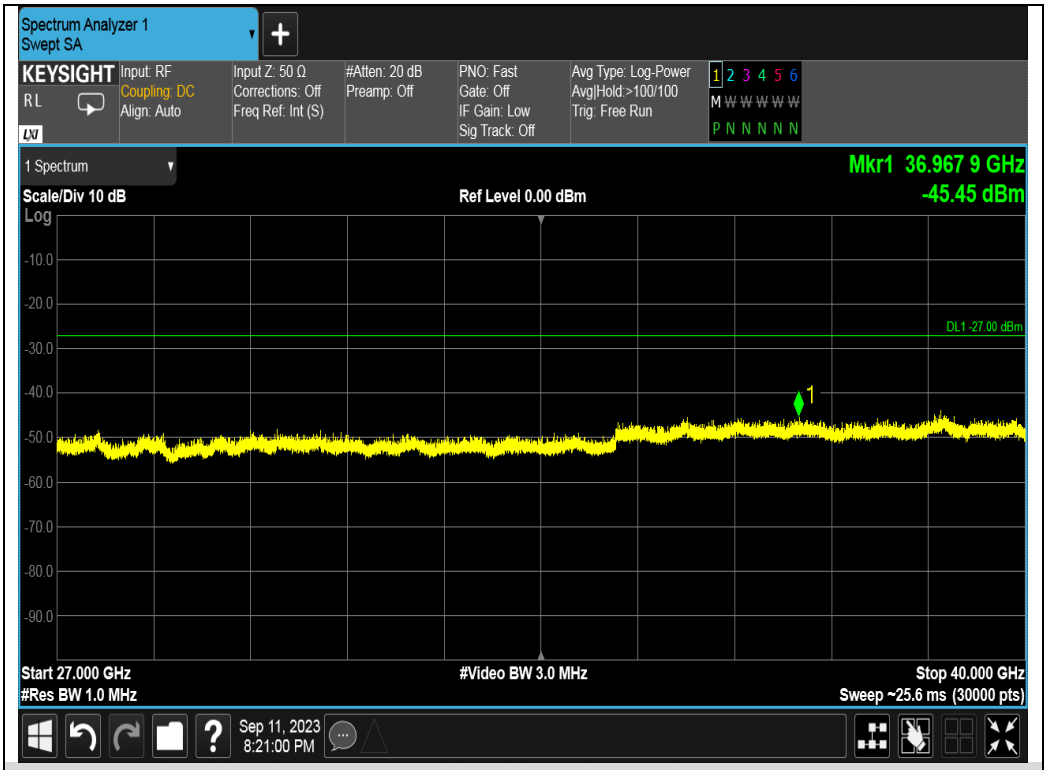


Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 2

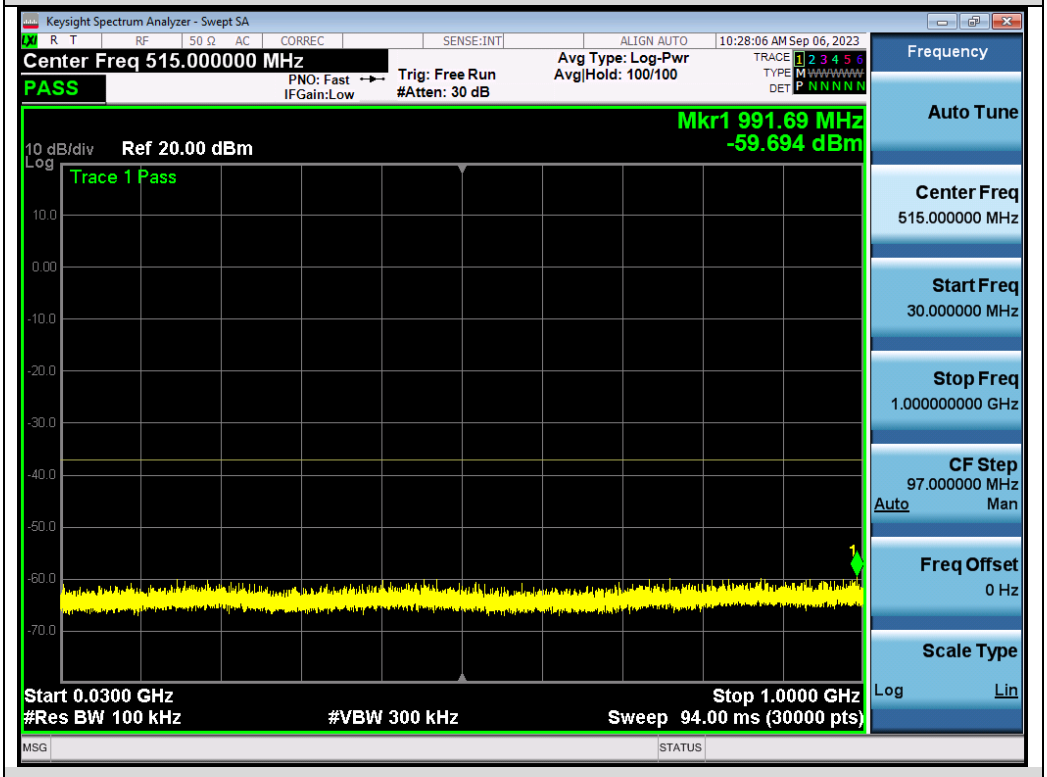


Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 3

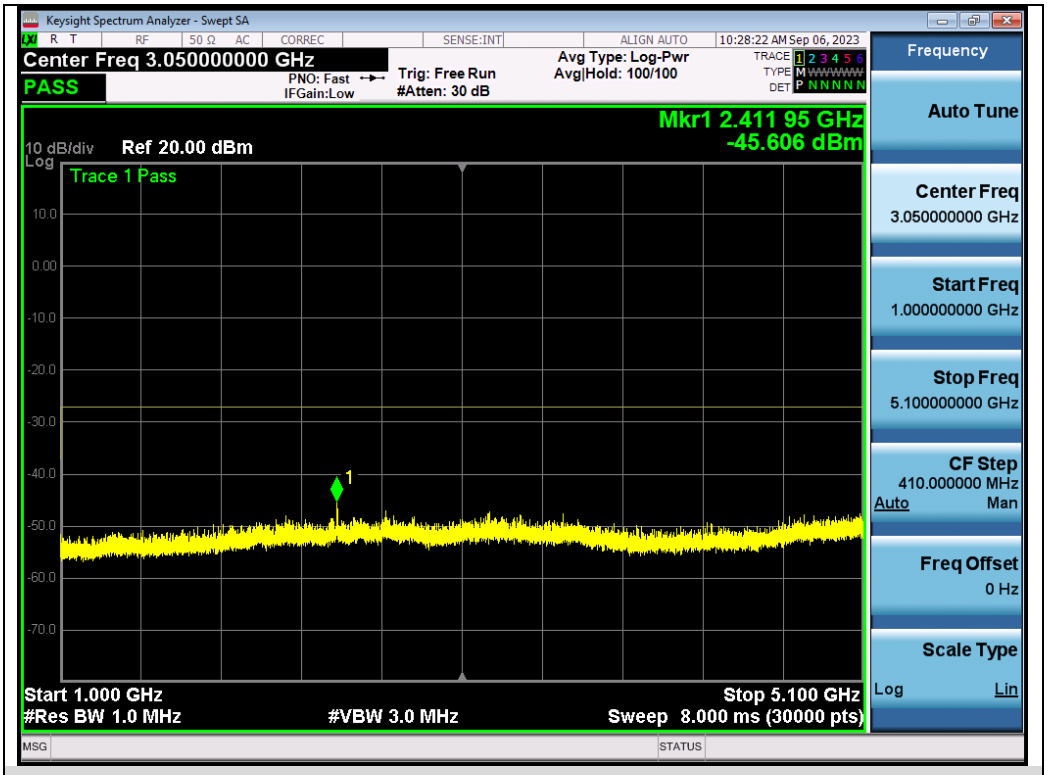
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 4



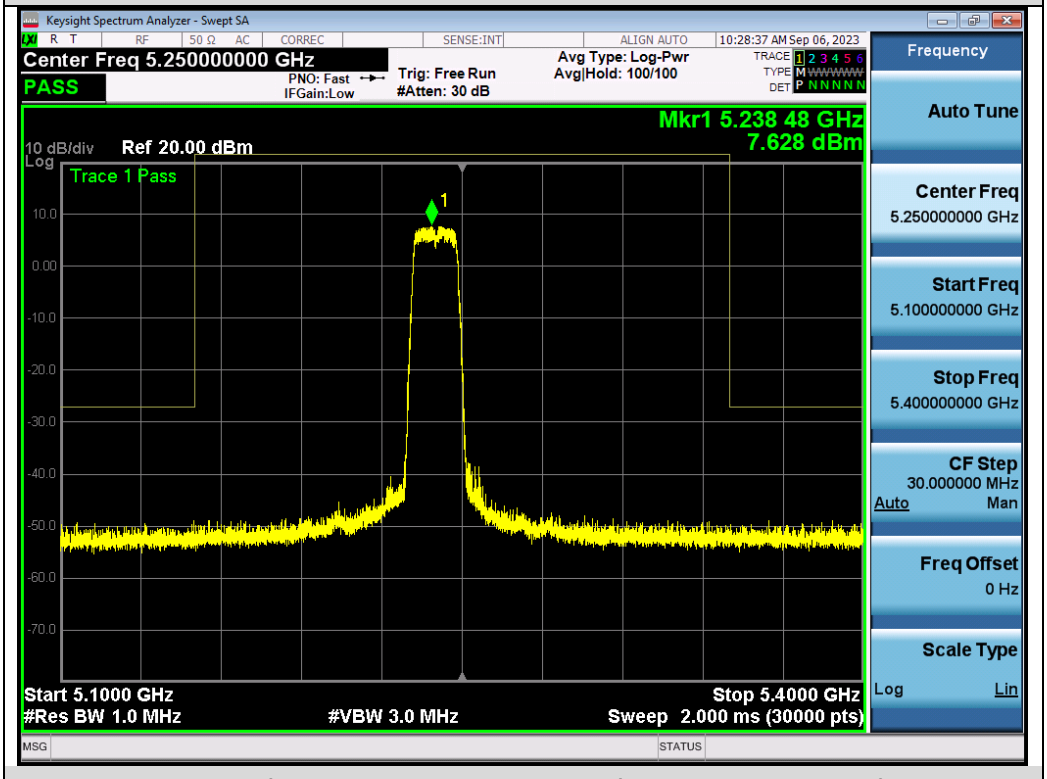
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 5



Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 1

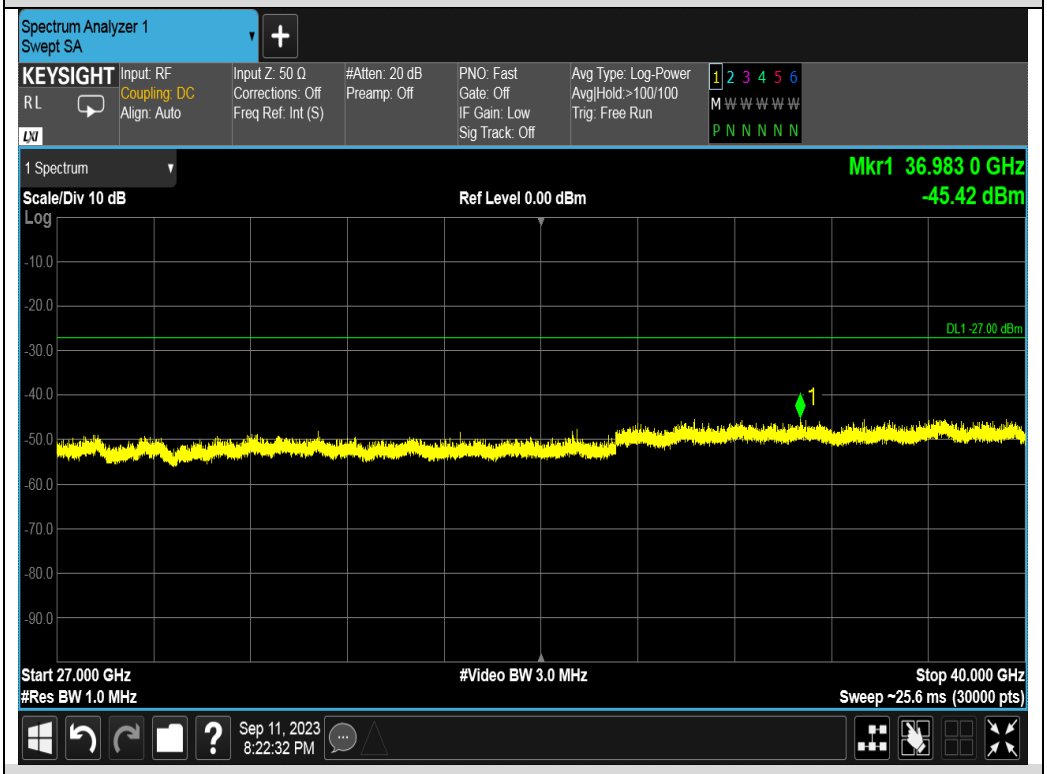


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 2

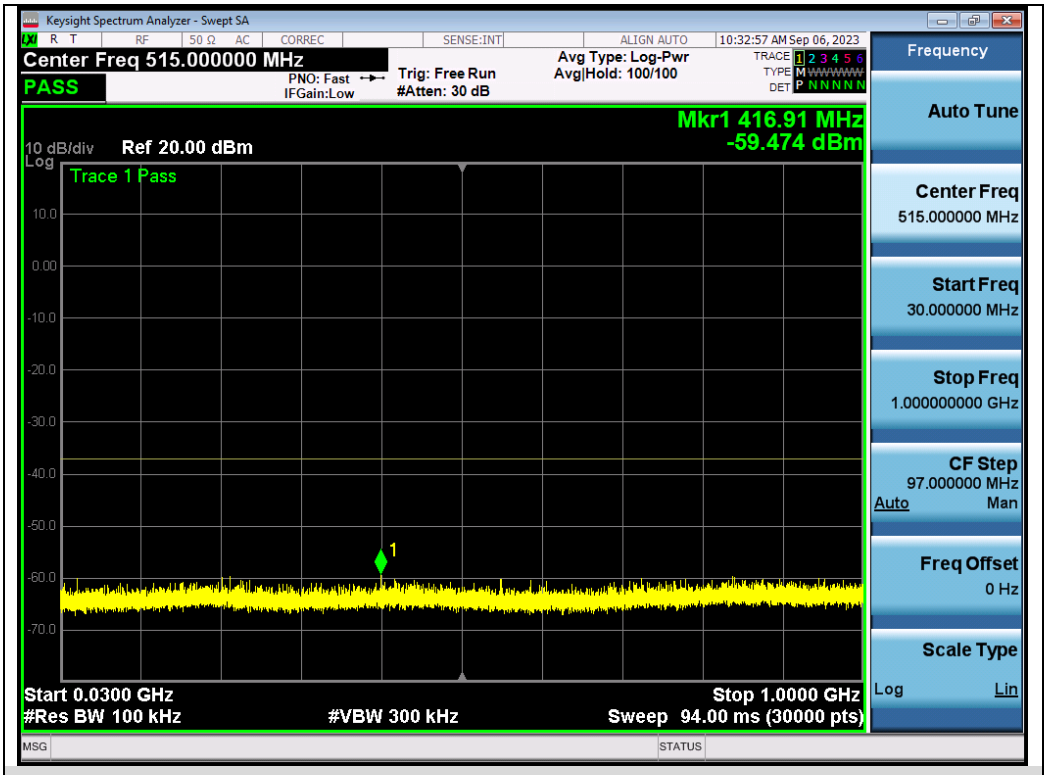


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 3

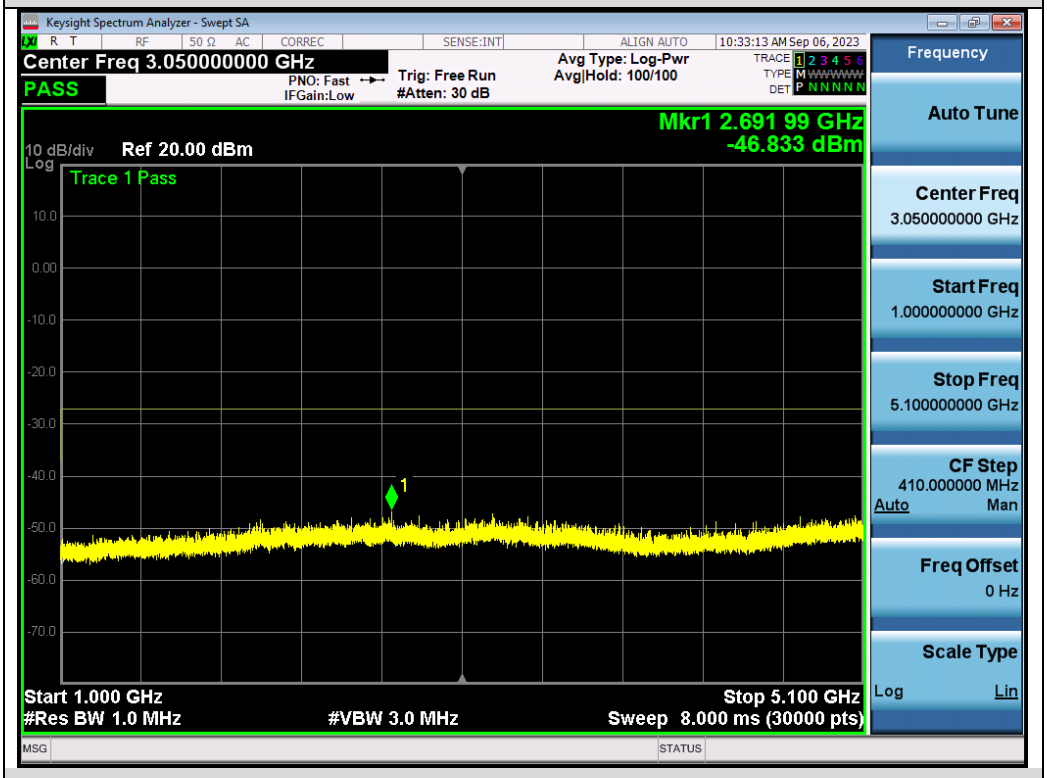
Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 4



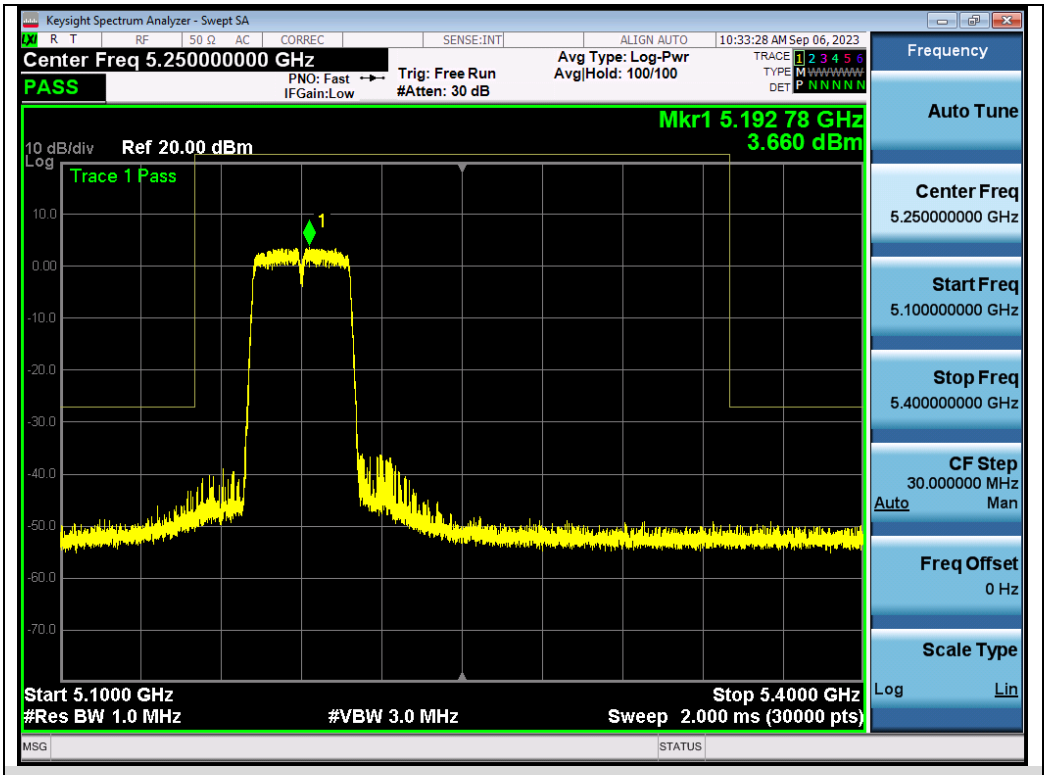
Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 5



Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 1

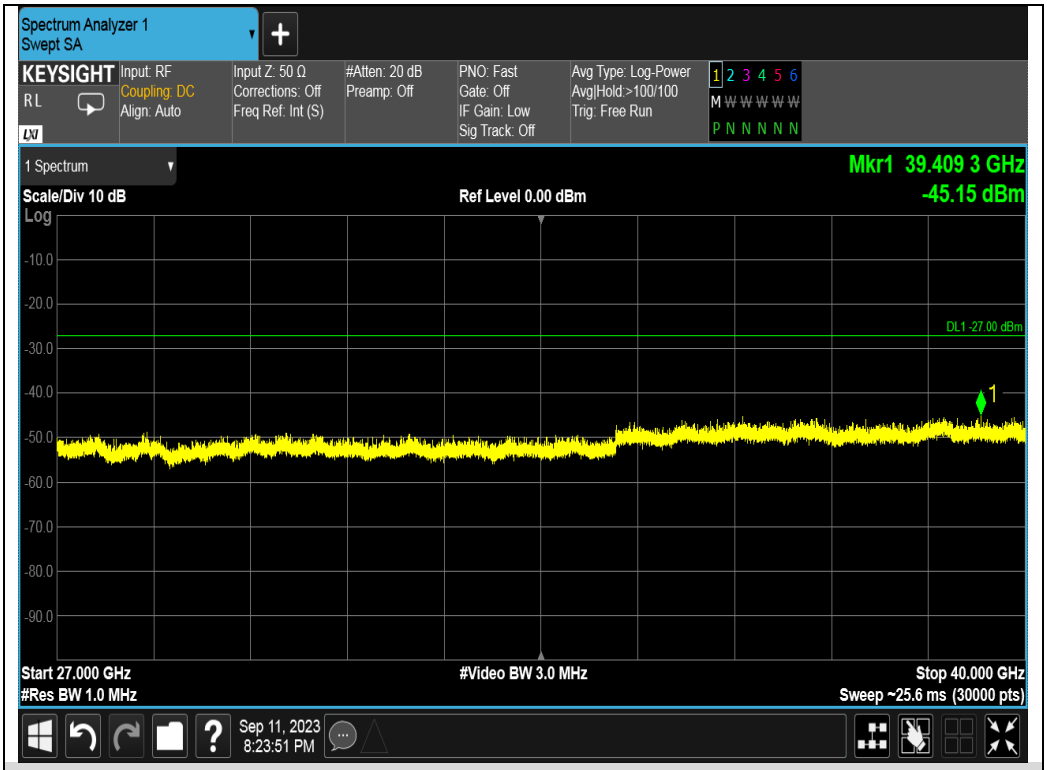


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 2

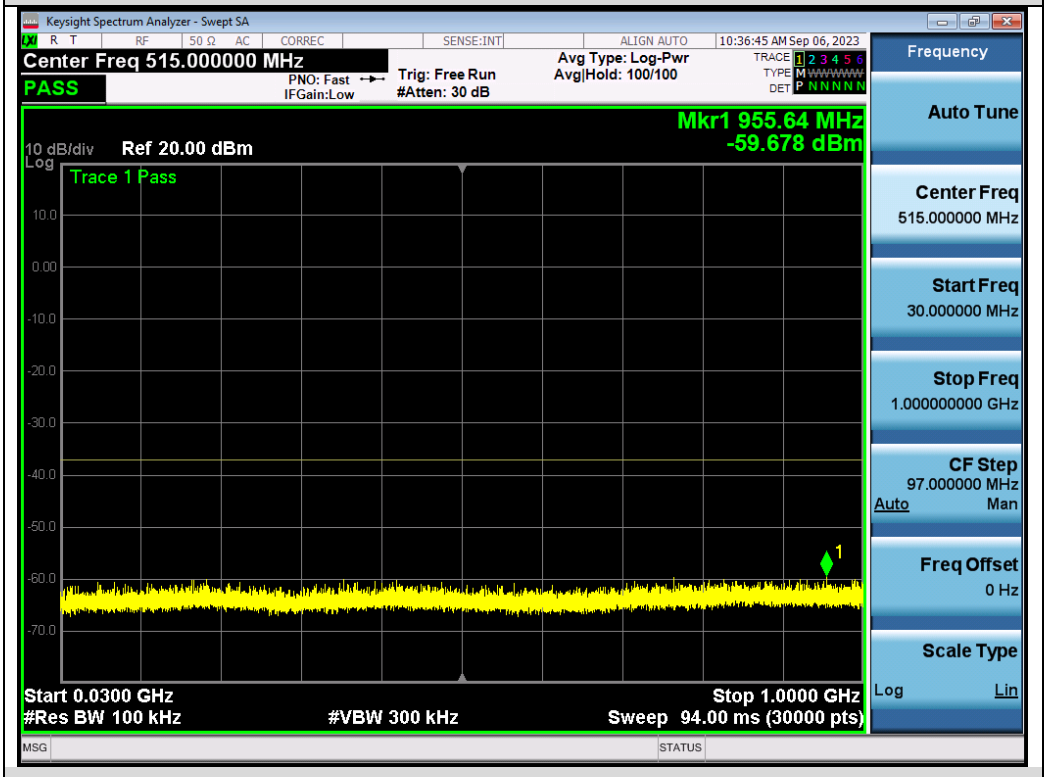


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 3

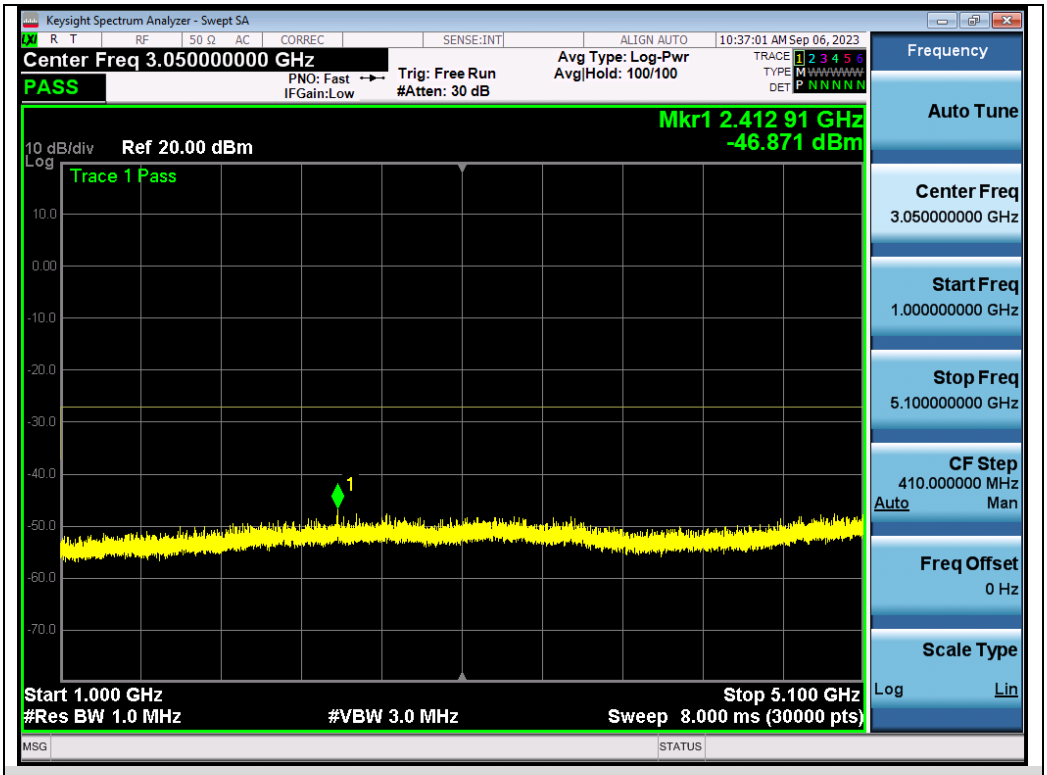
Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 4



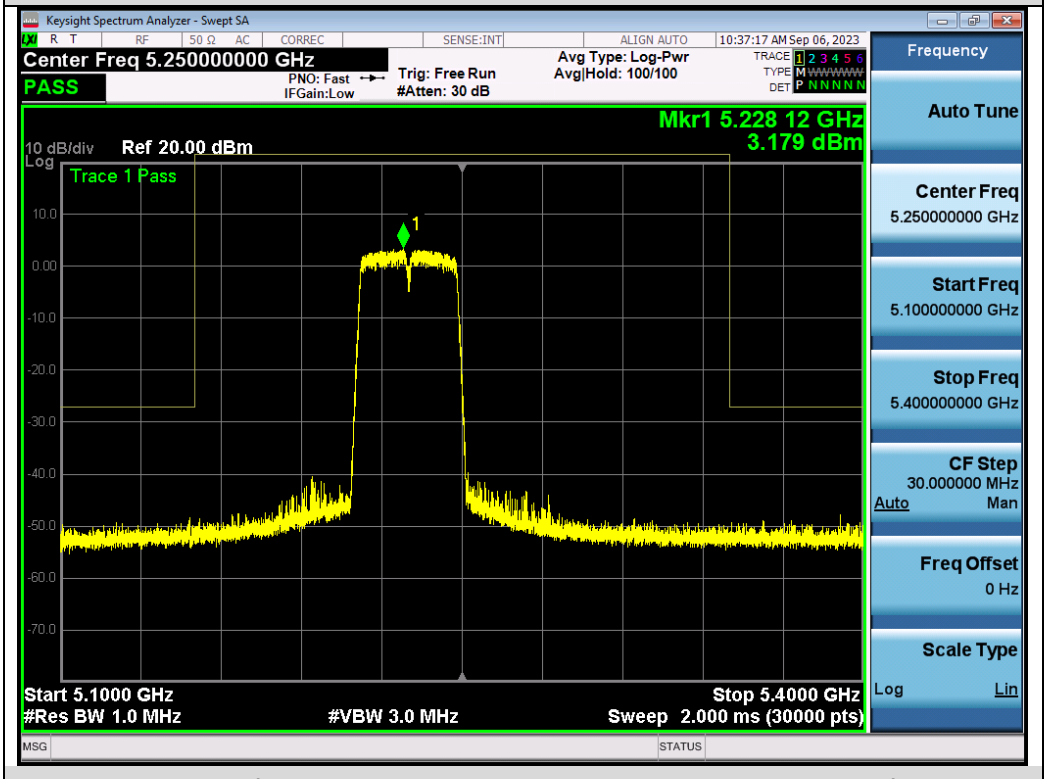
Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 5



Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 1

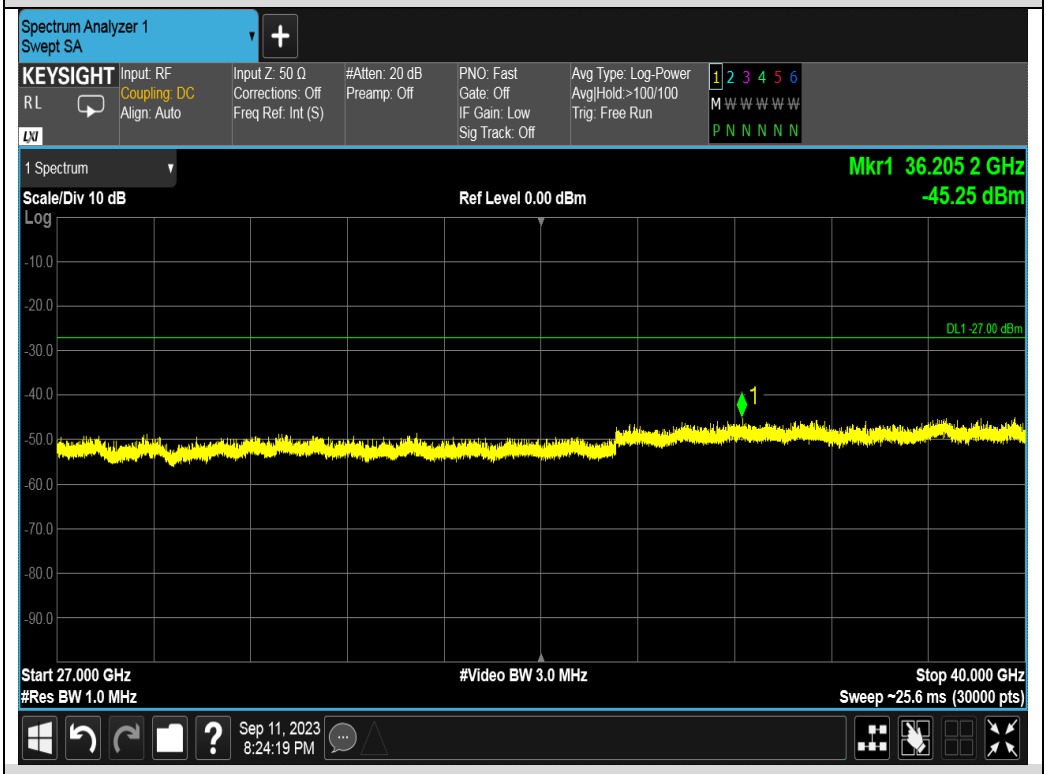


Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 2

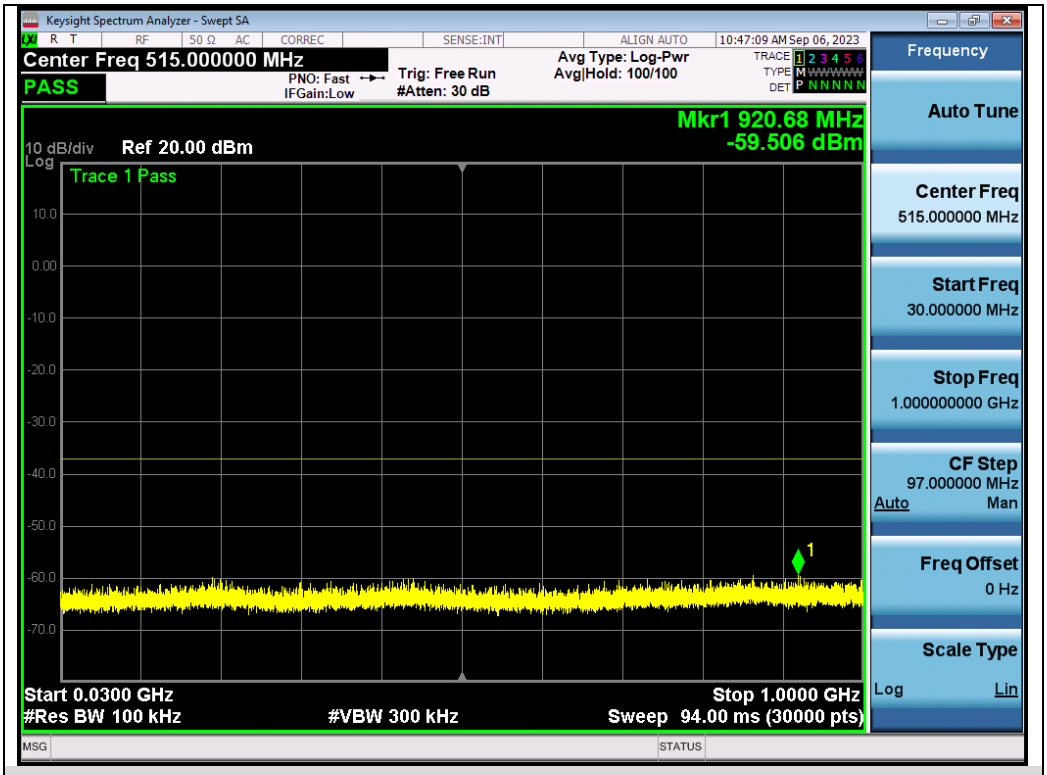


Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 3

Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 4

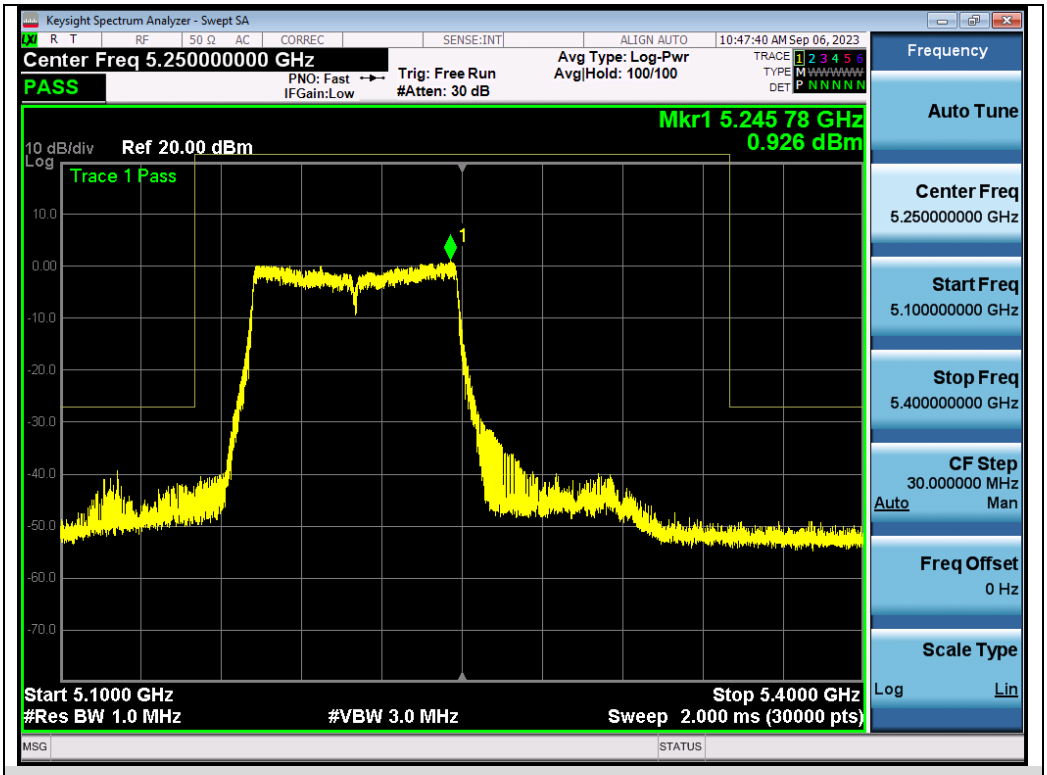


Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 5



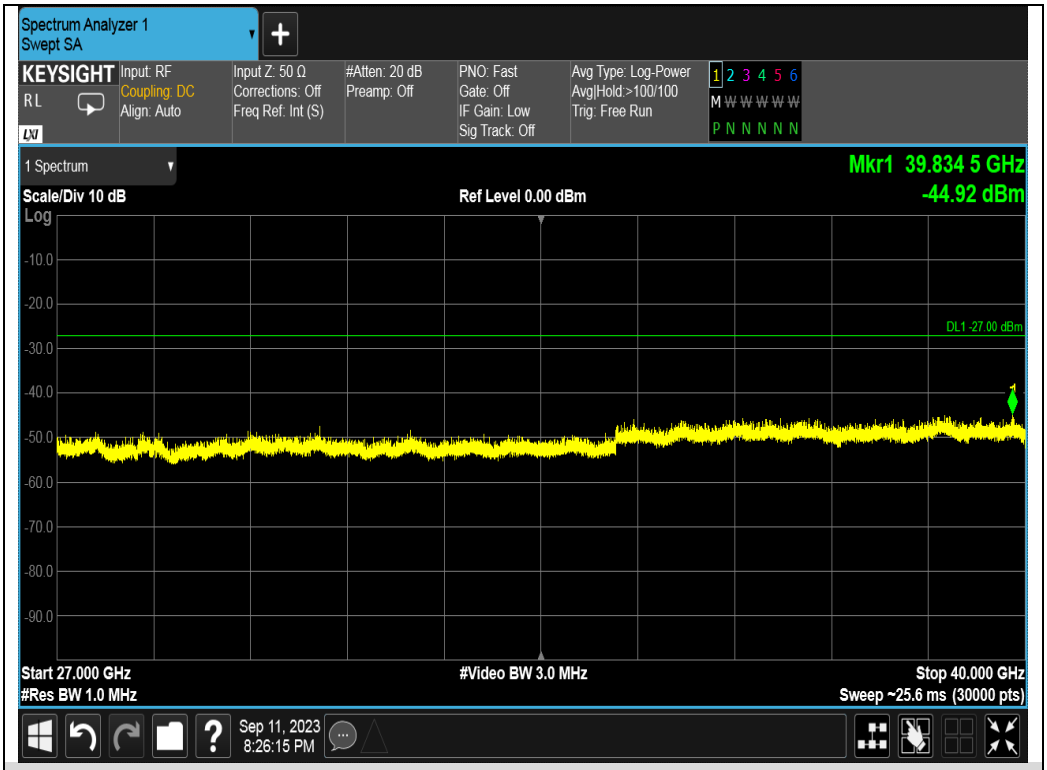
Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 1

Test_Graph_802.11ac80_ANT1_5210_MCS0_Frequency Band 2

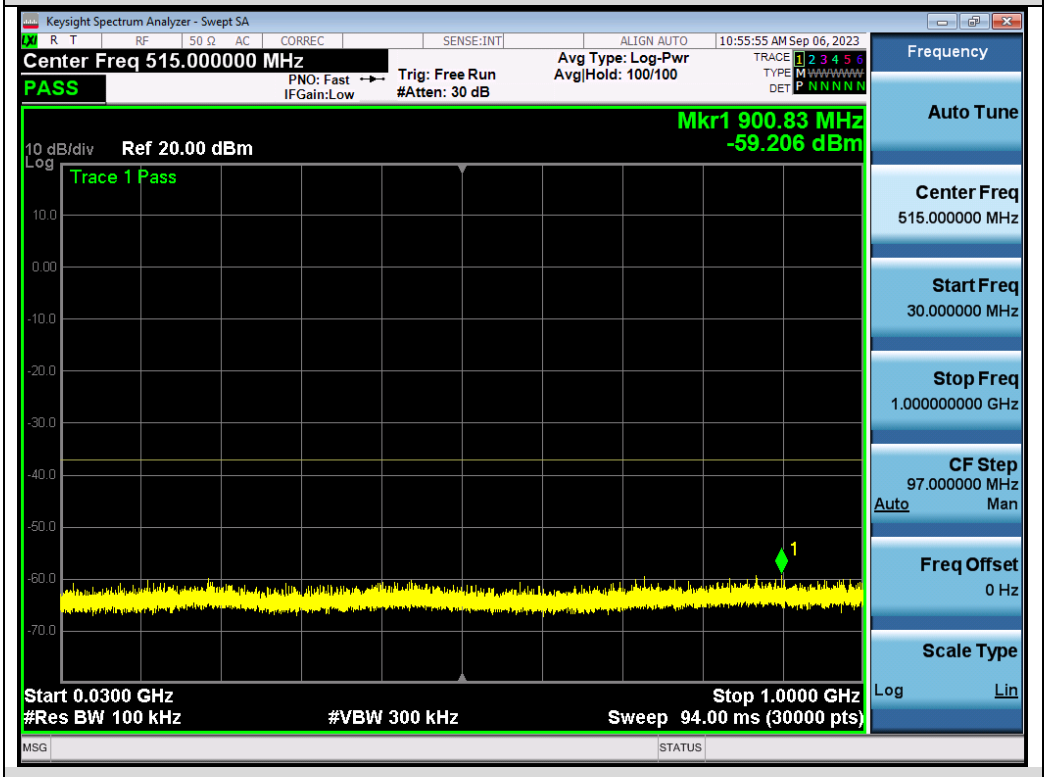


Test_Graph_802.11ac80_ANT1_5210_MCS0_Frequency Band 3

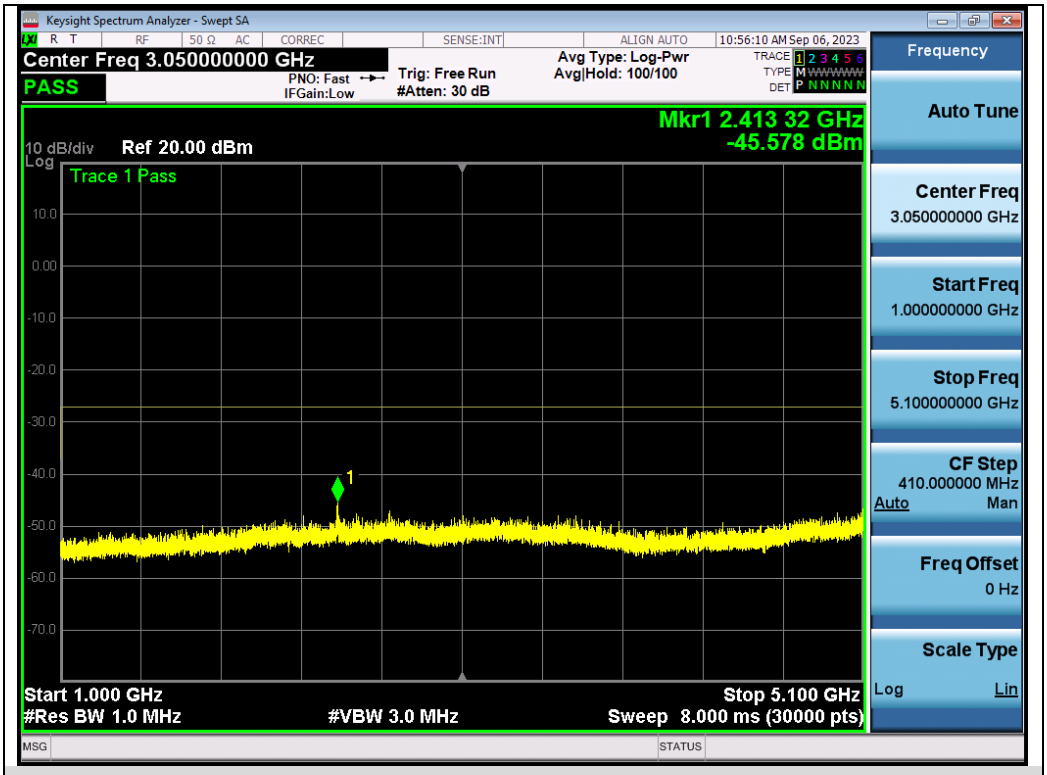
Test_Graph_802.11ac80_ANT1_5210_MCS0_Frequency Band 4



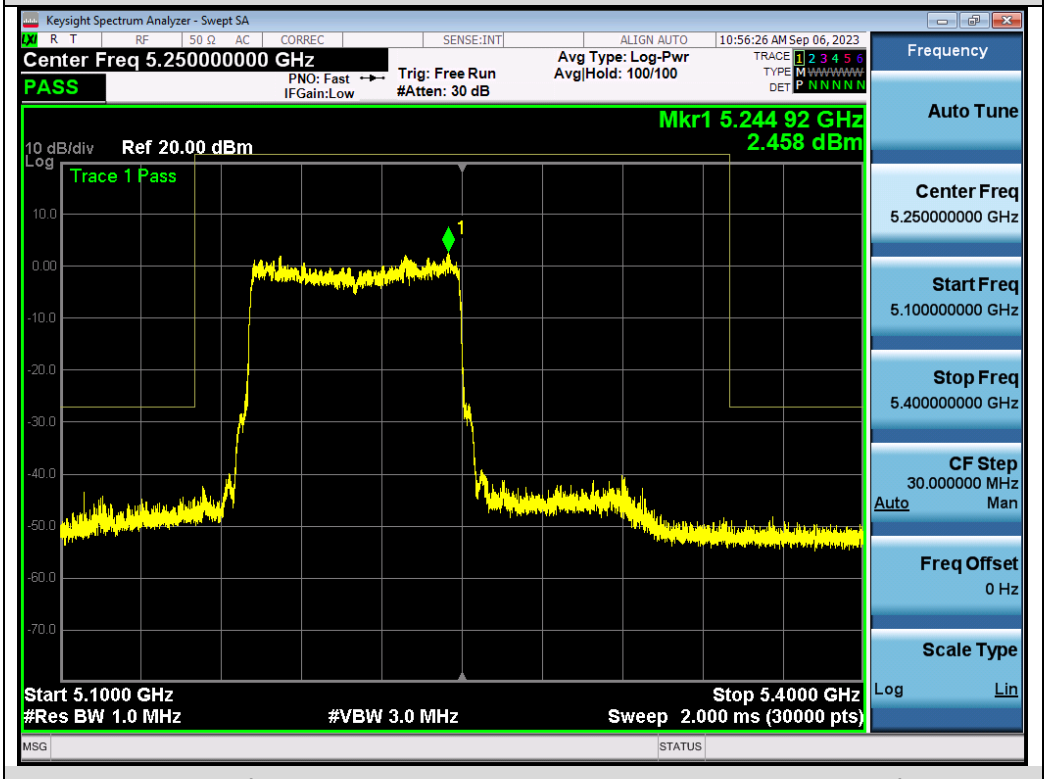
Test_Graph_802.11ac80_ANT1_5210_MCS0_Frequency Band 5



Test_Graph_802.11ax80_ANT1_5210_MCS0_Frequency Band 1

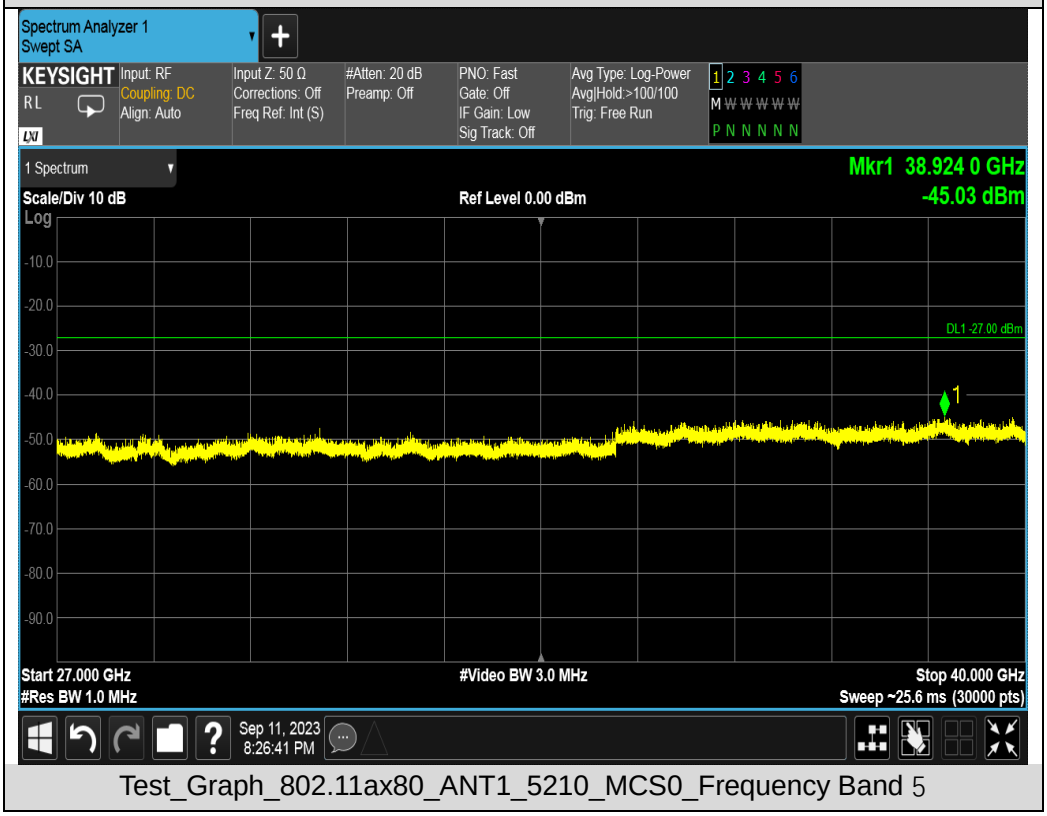


Test_Graph_802.11ax80_ANT1_5210_MCS0_Frequency Band 2

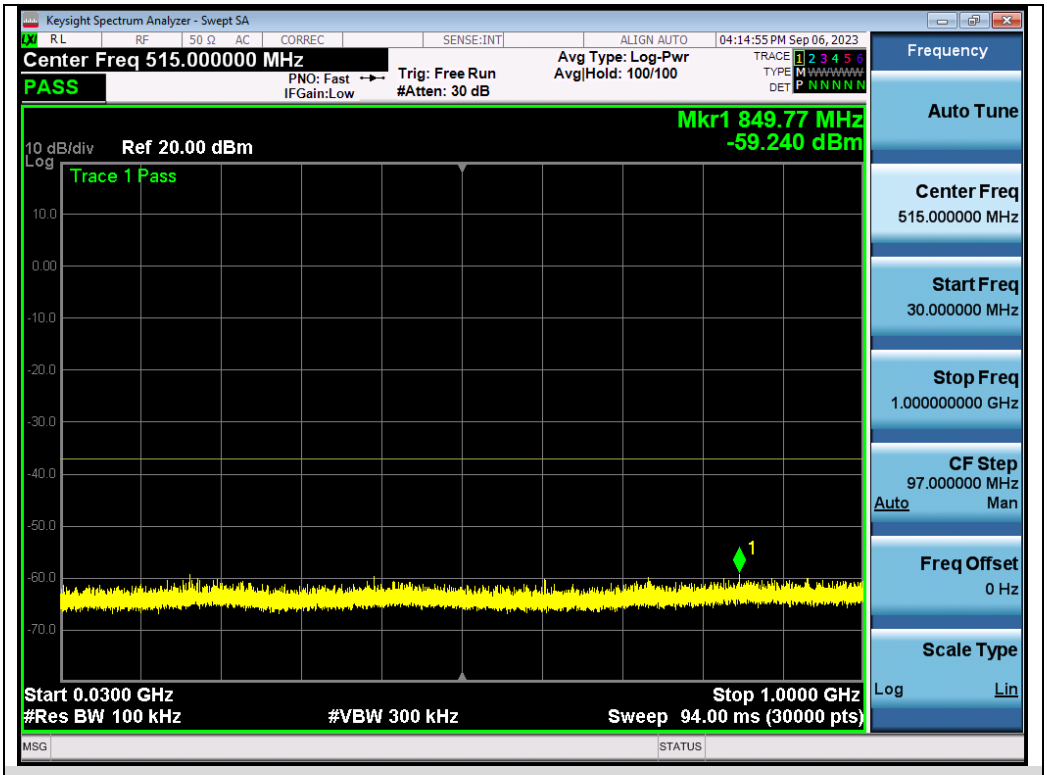


Test_Graph_802.11ax80_ANT1_5210_MCS0_Frequency Band 3

Test_Graph_802.11ax80_ANT1_5210_MCS0_Frequency Band 4

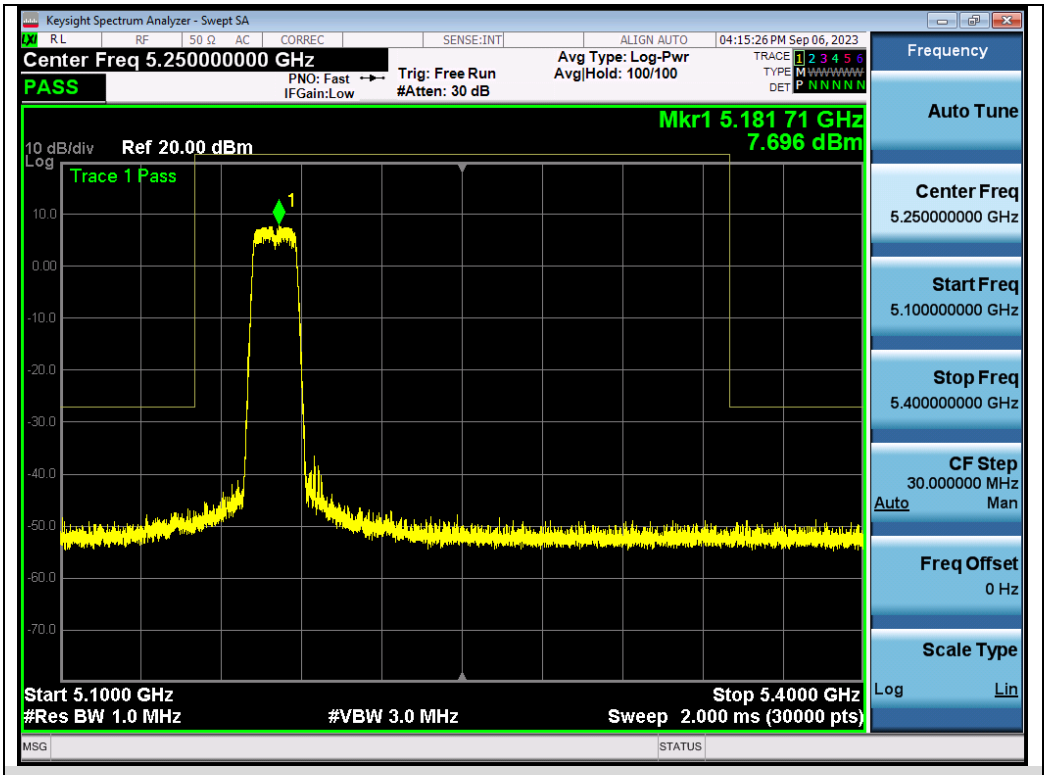


Test_Graph_802.11ax80_ANT1_5210_MCS0_Frequency Band 5



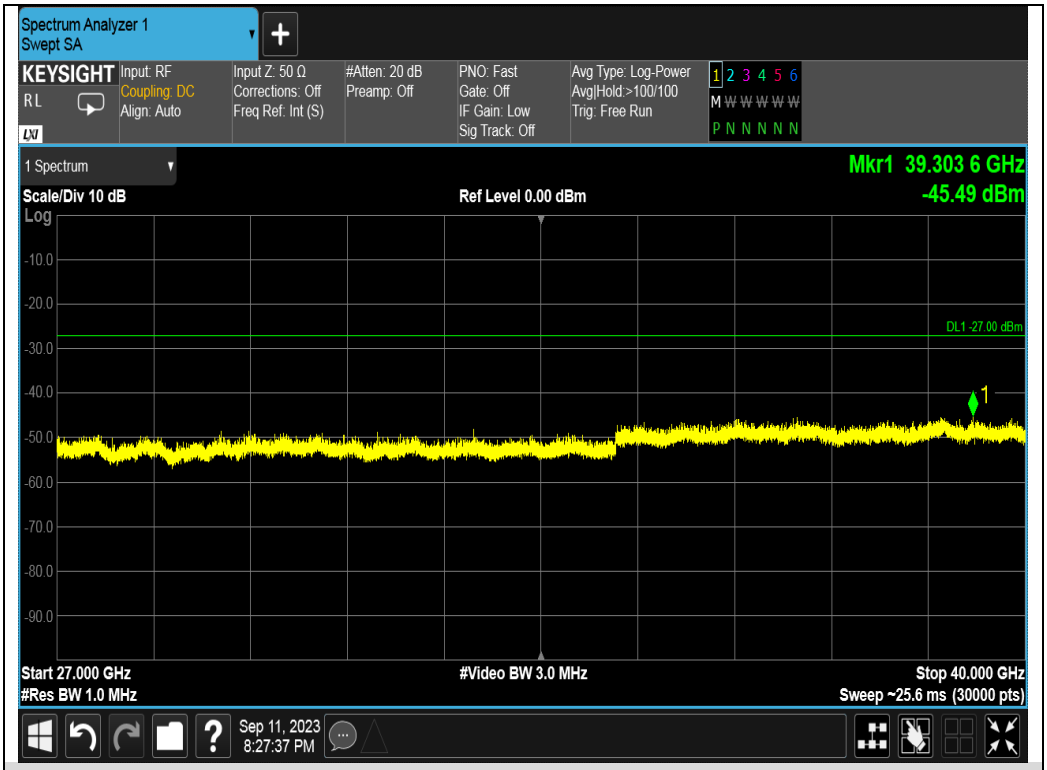
Test_Graph_802.11a_ANT2_5180_6Mbps_Frequency Band 1

Test_Graph_802.11a_ANT2_5180_6Mbps_Frequency Band 2

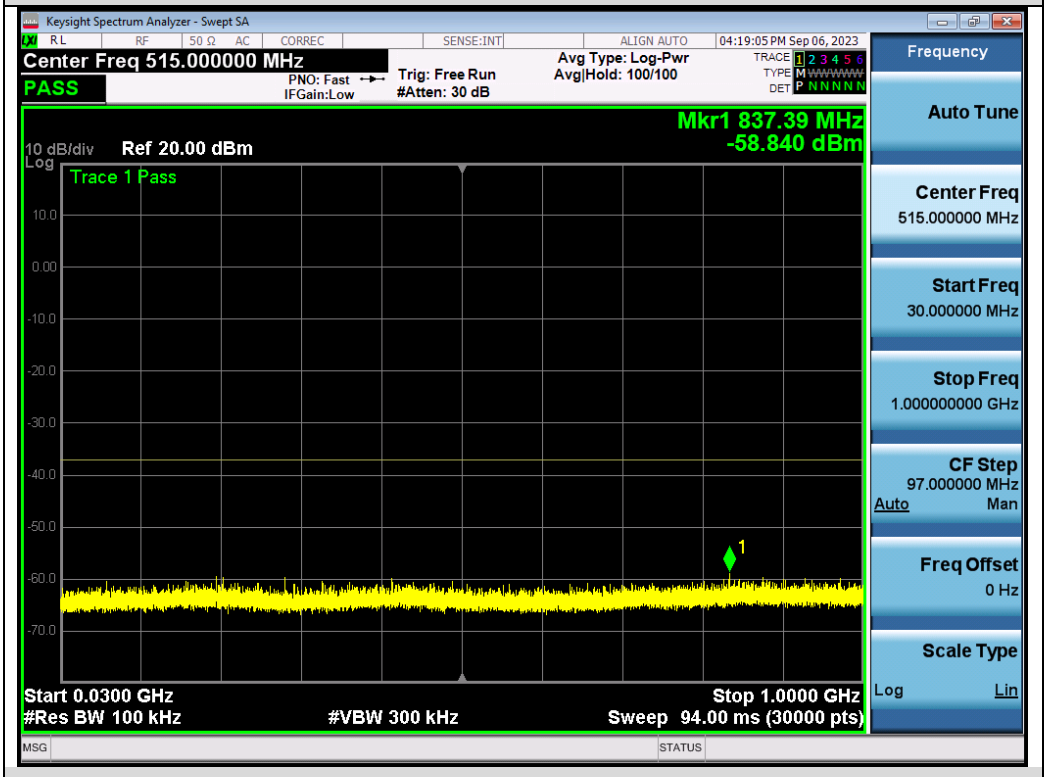


Test_Graph_802.11a_ANT2_5180_6Mbps_Frequency Band 3

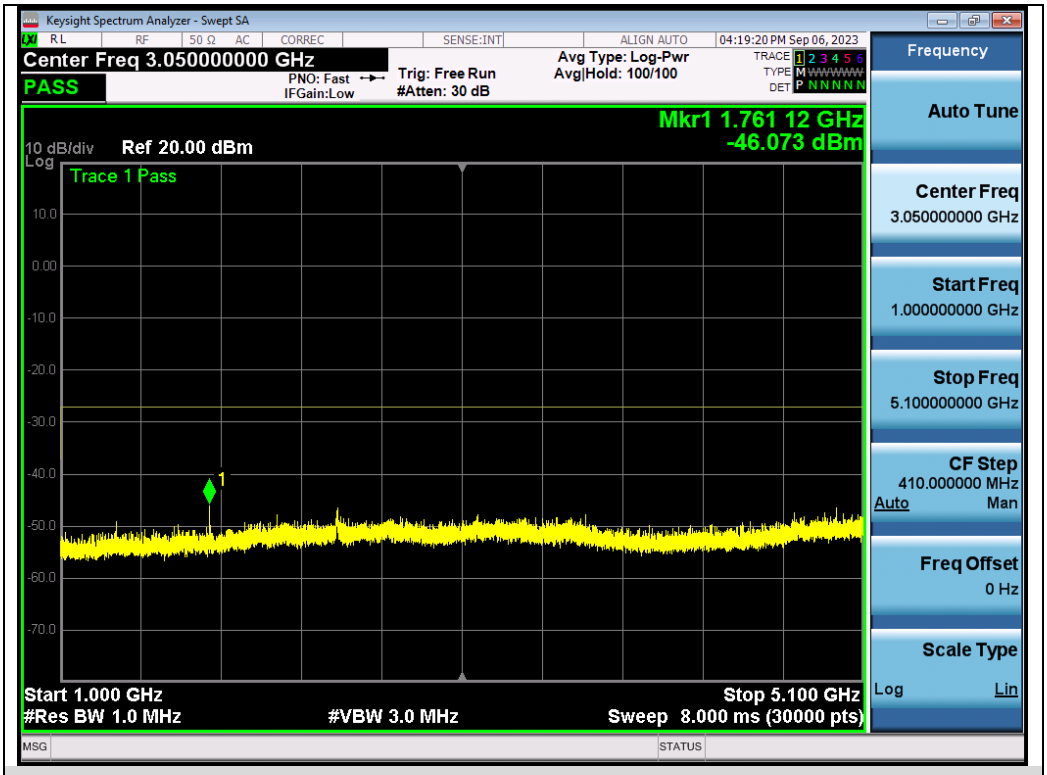
Test_Graph_802.11a_ANT2_5180_6Mbps_Frequency Band 4



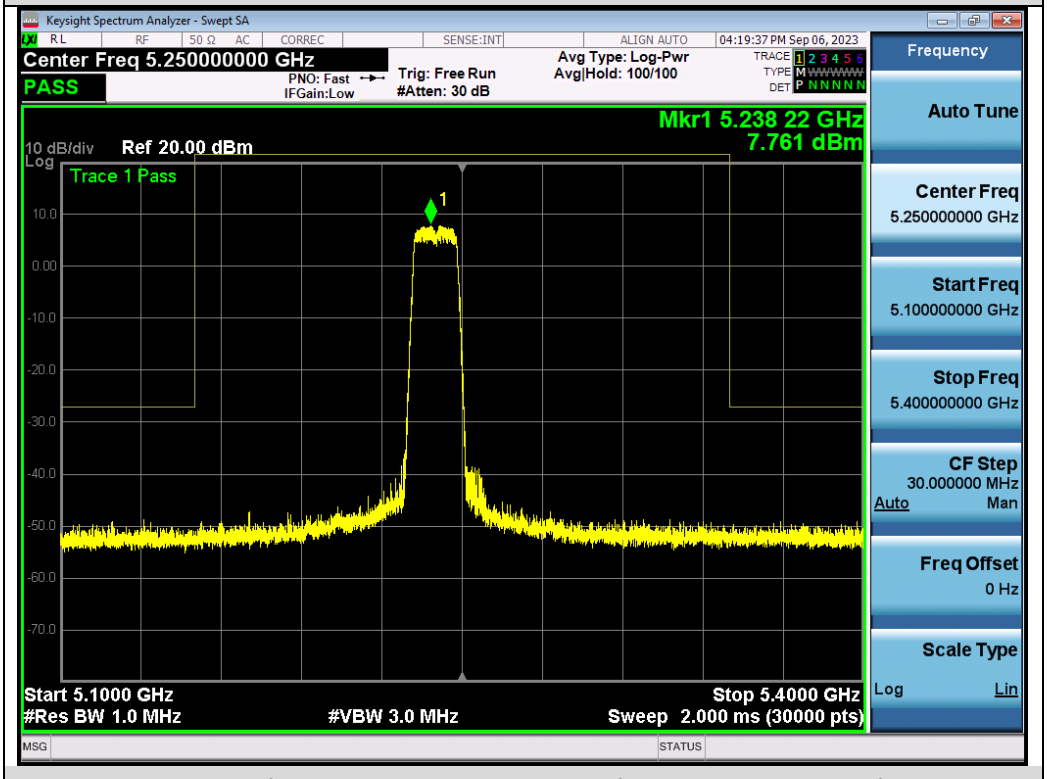
Test_Graph_802.11a_ANT2_5180_6Mbps_Frequency Band 5



Test_Graph_802.11a_ANT2_5240_6Mbps_Frequency Band 1

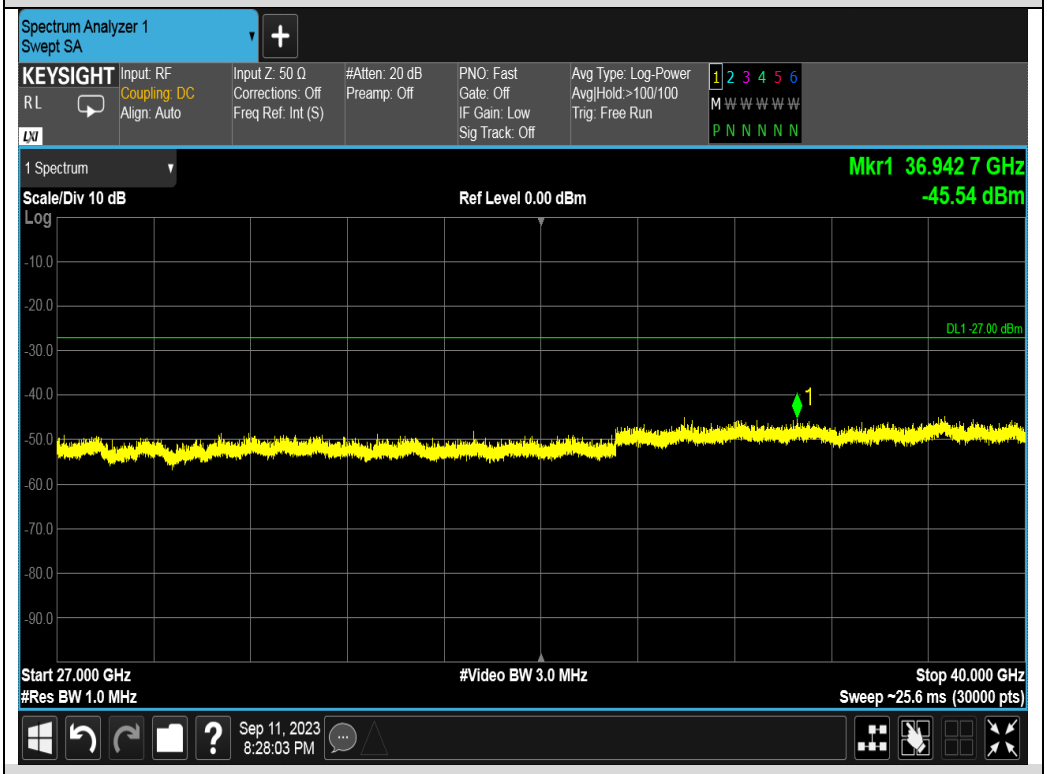


Test_Graph_802.11a_ANT2_5240_6Mbps_Frequency Band 2

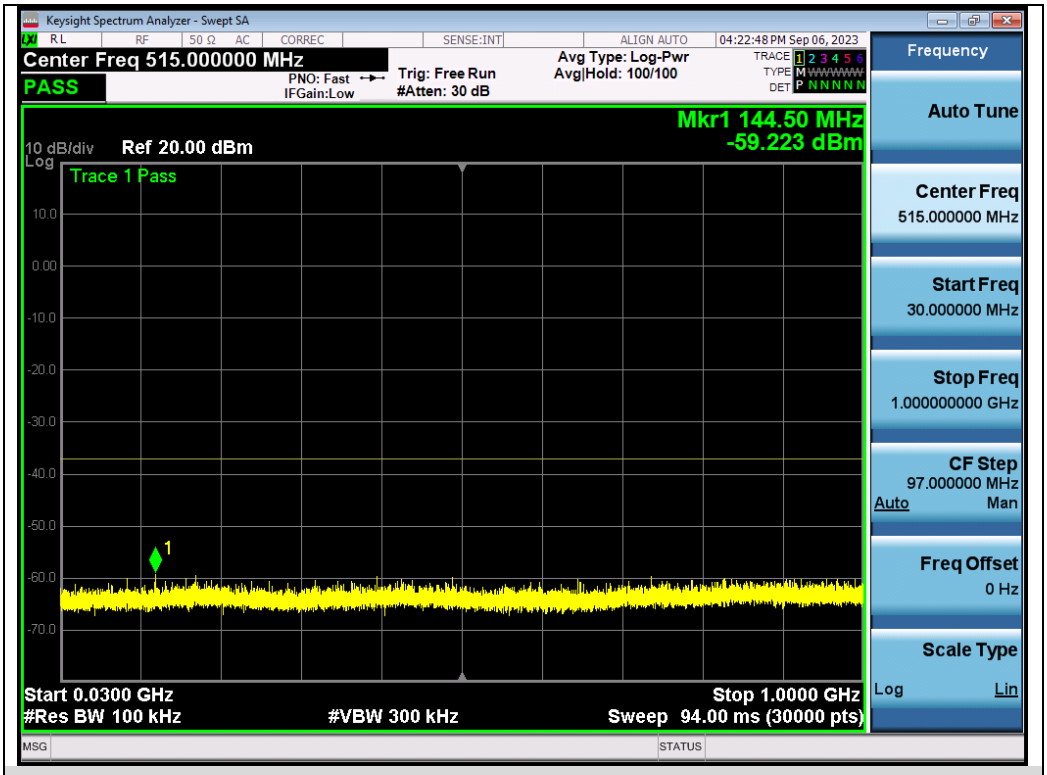


Test_Graph_802.11a_ANT2_5240_6Mbps_Frequency Band 3

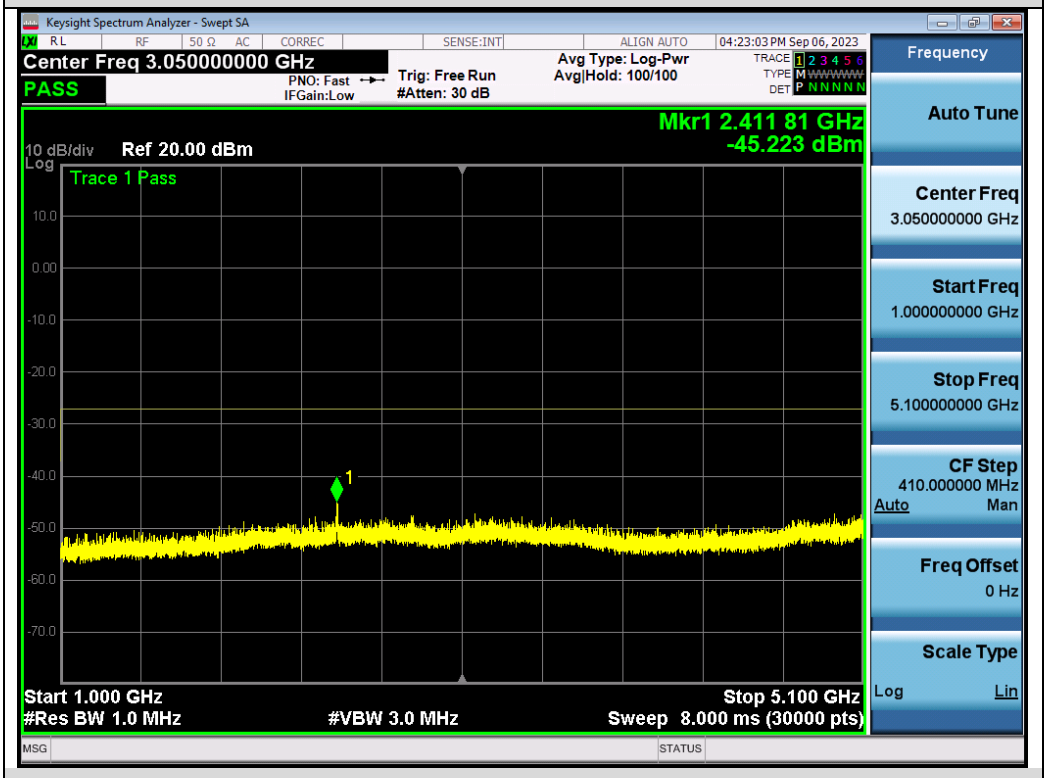
Test_Graph_802.11a_ANT2_5240_6Mbps_Frequency Band 4



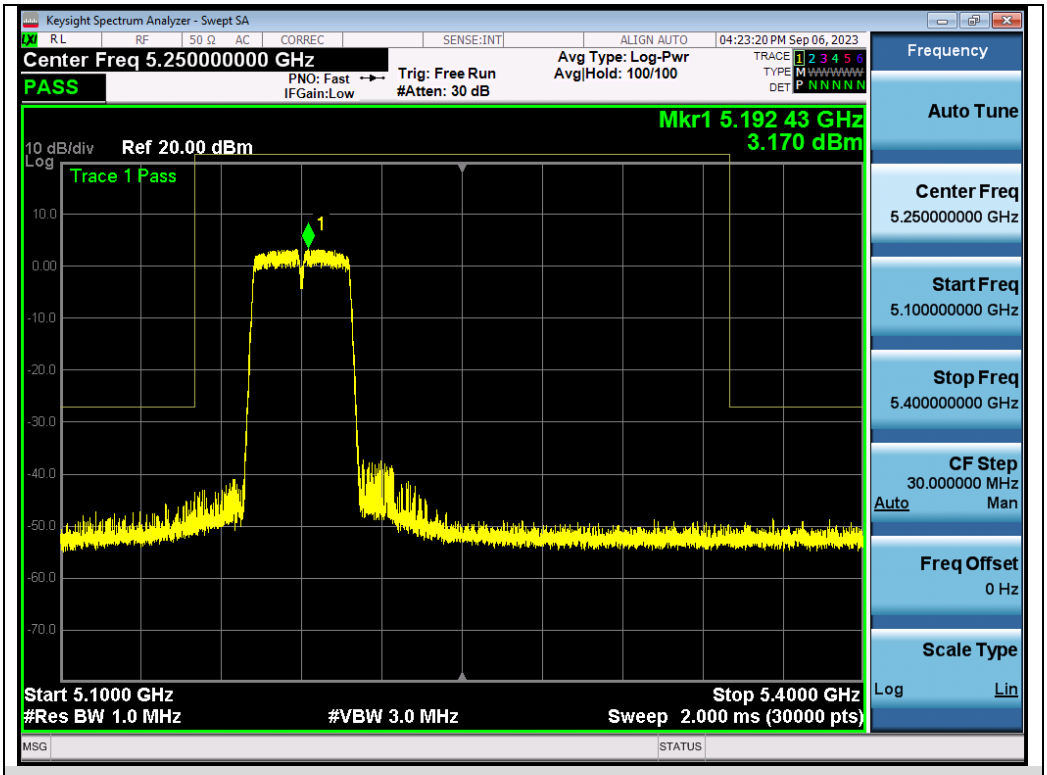
Test_Graph_802.11a_ANT2_5240_6Mbps_Frequency Band 5



Test_Graph_802.11n40_ANT2_5190_MCS0_Frequency Band 1



Test_Graph_802.11n40_ANT2_5190_MCS0_Frequency Band 2



Test_Graph_802.11n40_ANT2_5190_MCS0_Frequency Band 3

Test_Graph_802.11n40_ANT2_5190_MCS0_Frequency Band 4