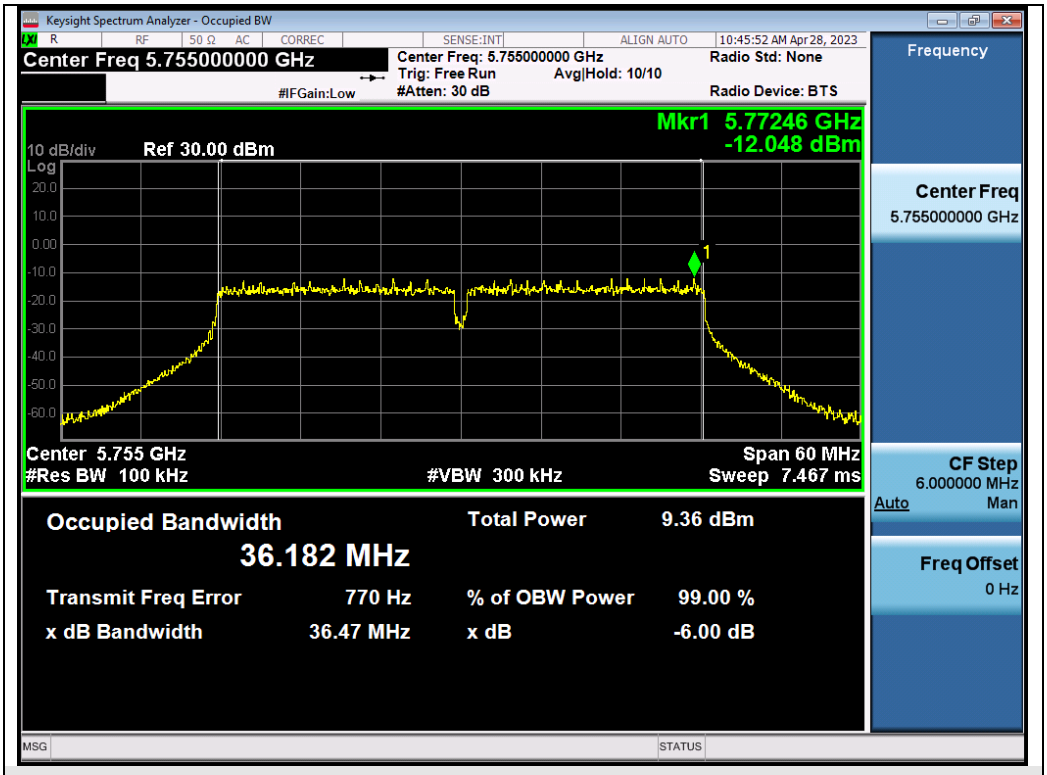
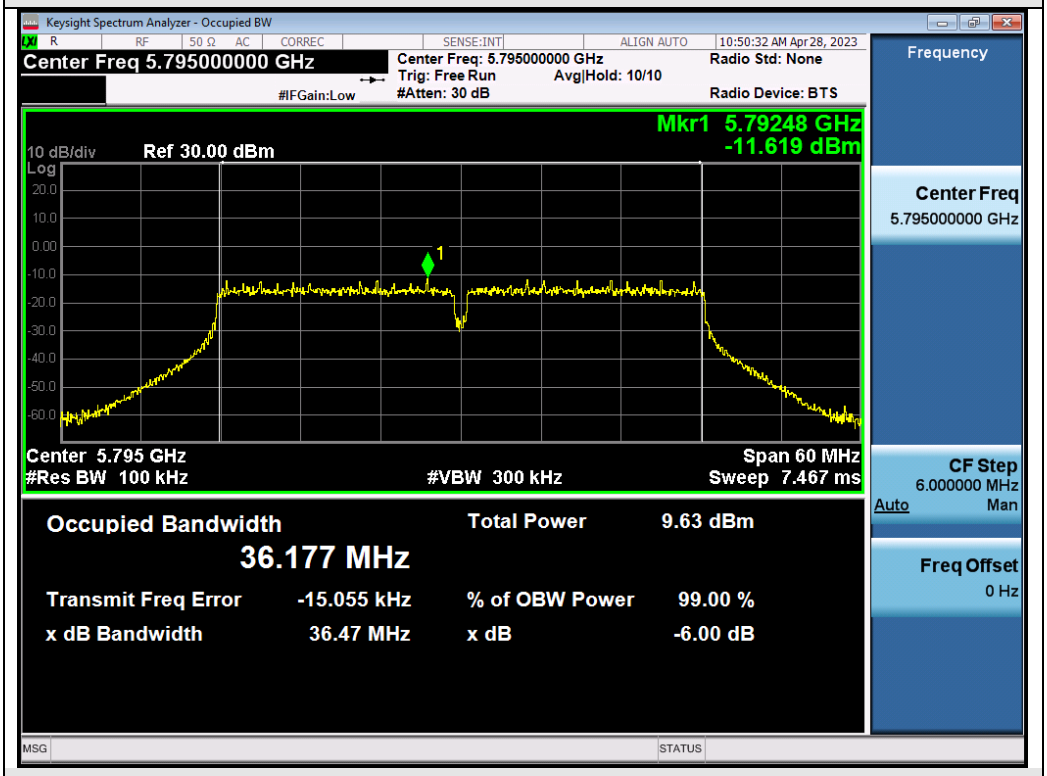


Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW



Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW

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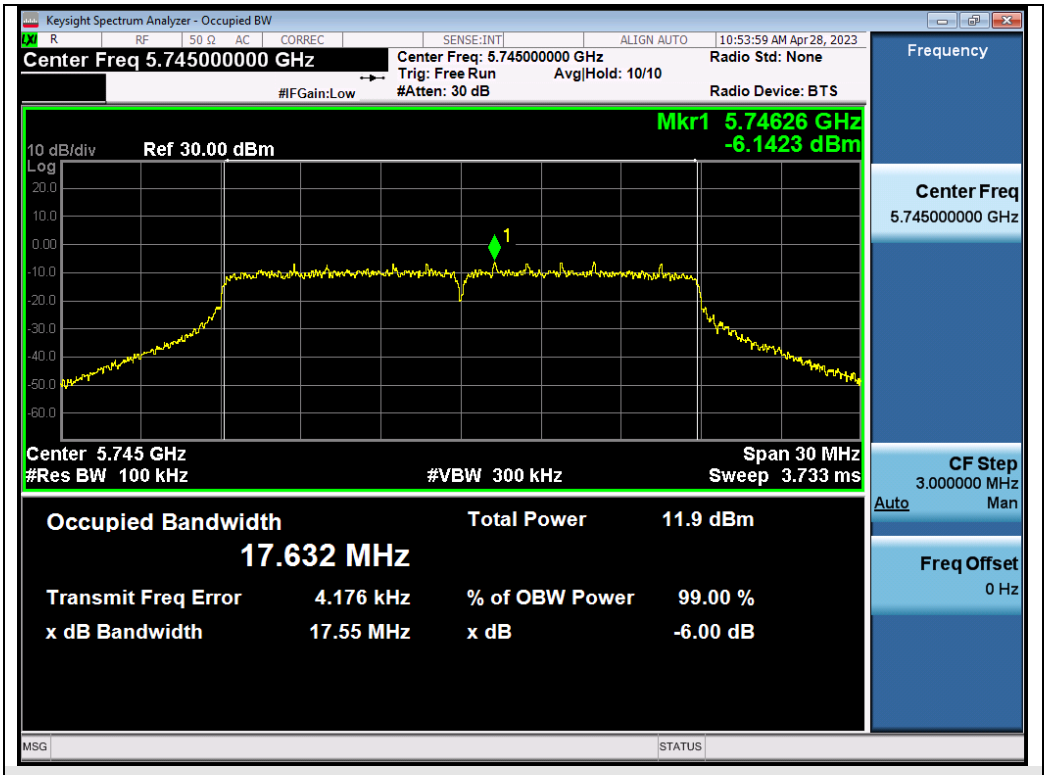

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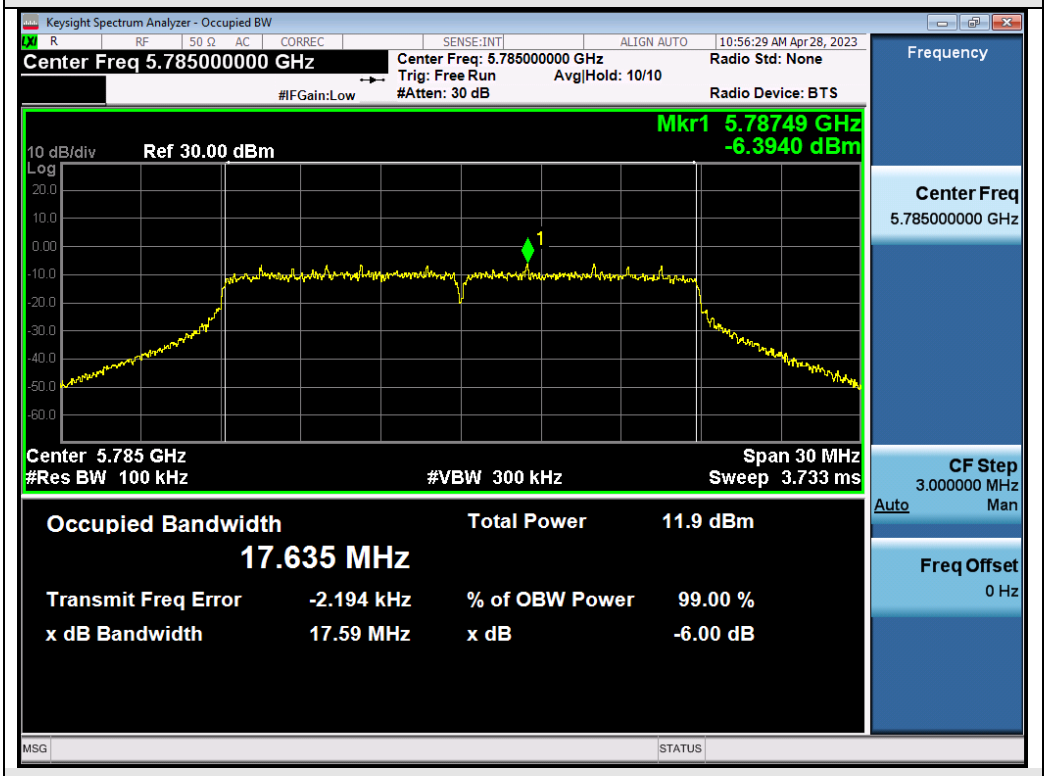

Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW

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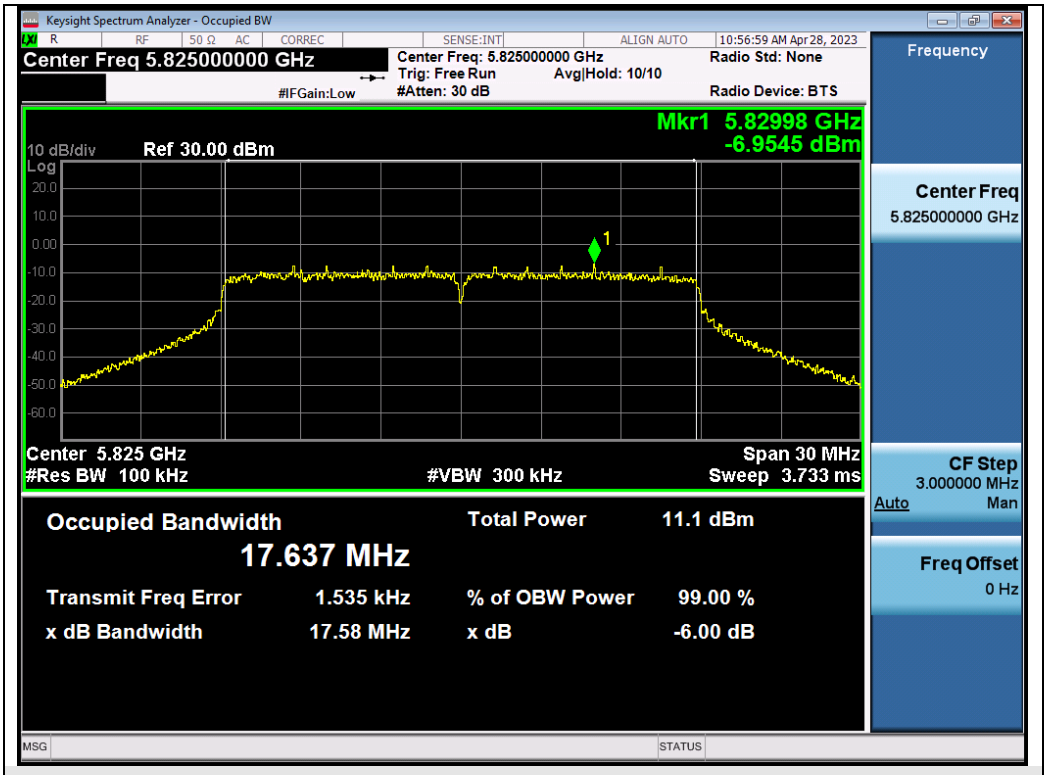

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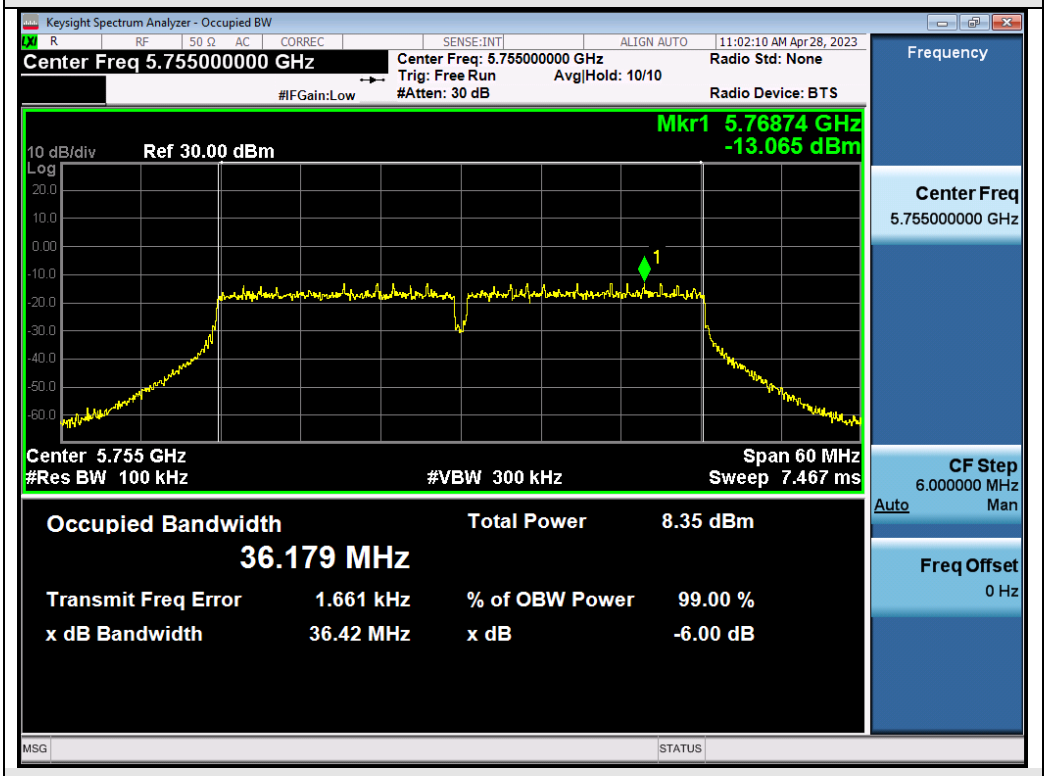

Test_Graph_802.11ac40_ANT1_5755_MCS9_DTSBW

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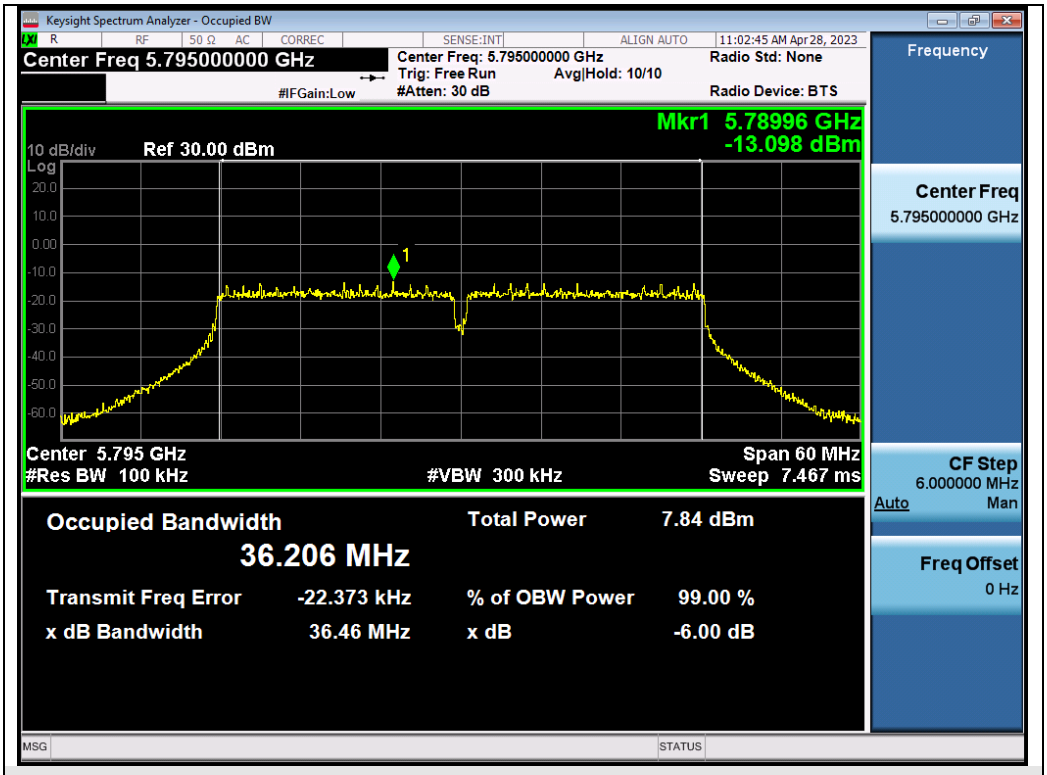

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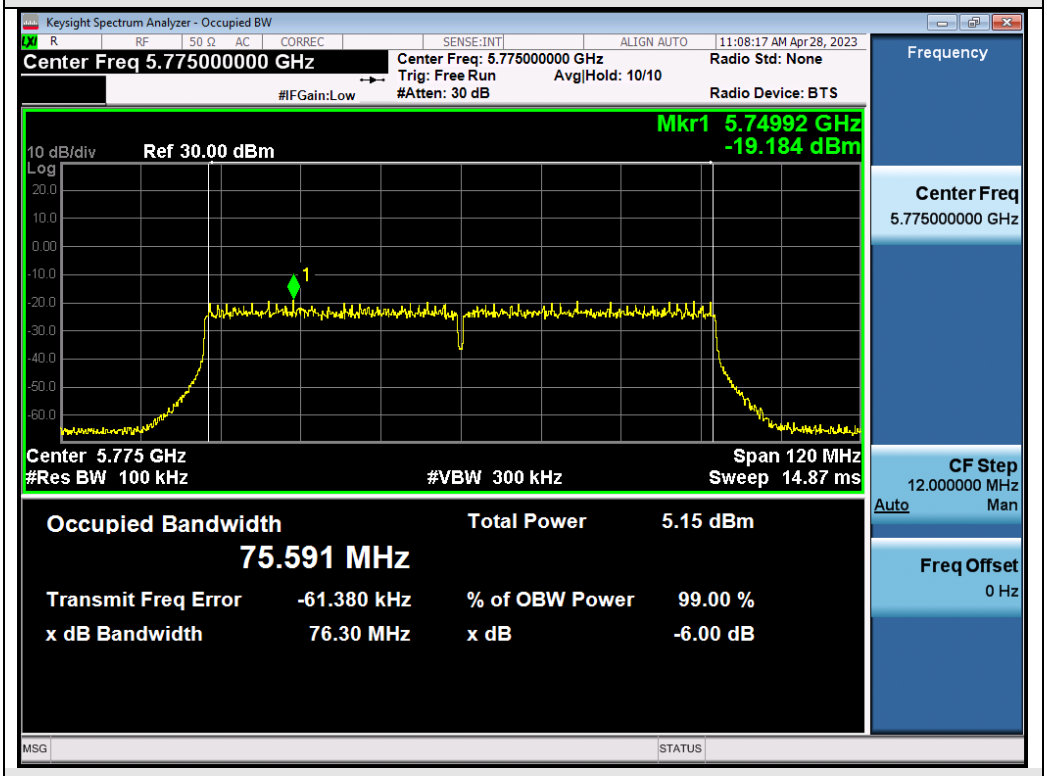

Test_Graph_802.11ac80_ANT1_5775_MCS9_DTSBW

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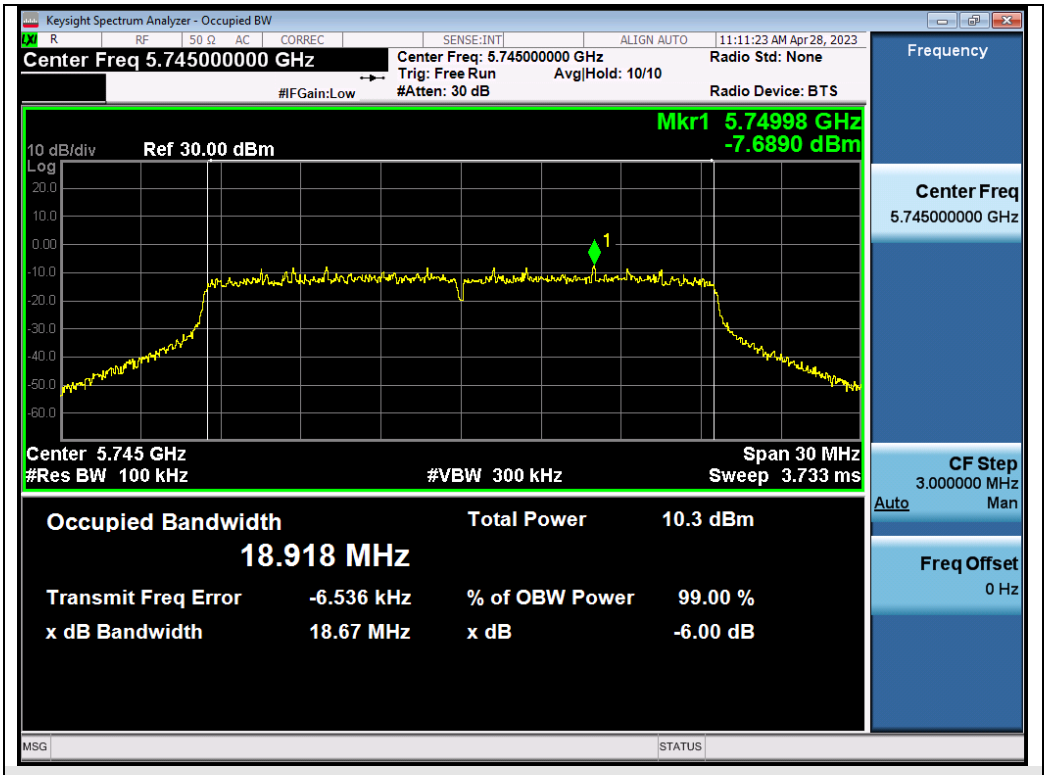

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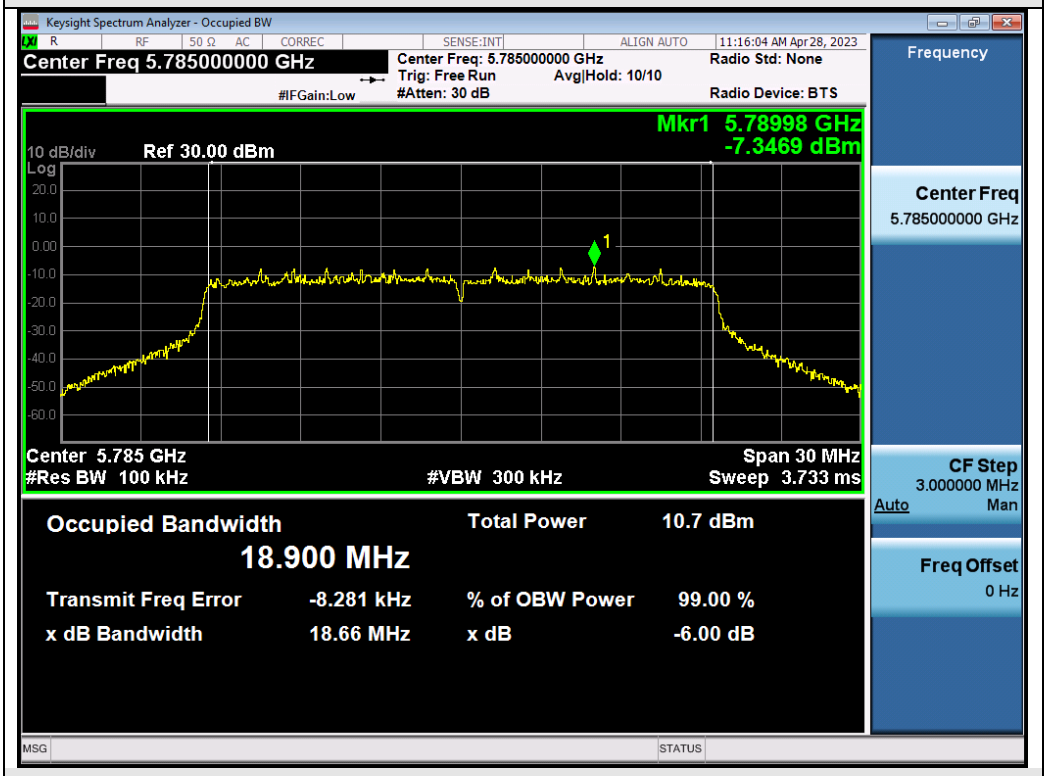

Test_Graph_802.11ax20_ANT1_5785_MCS0_DTSBW

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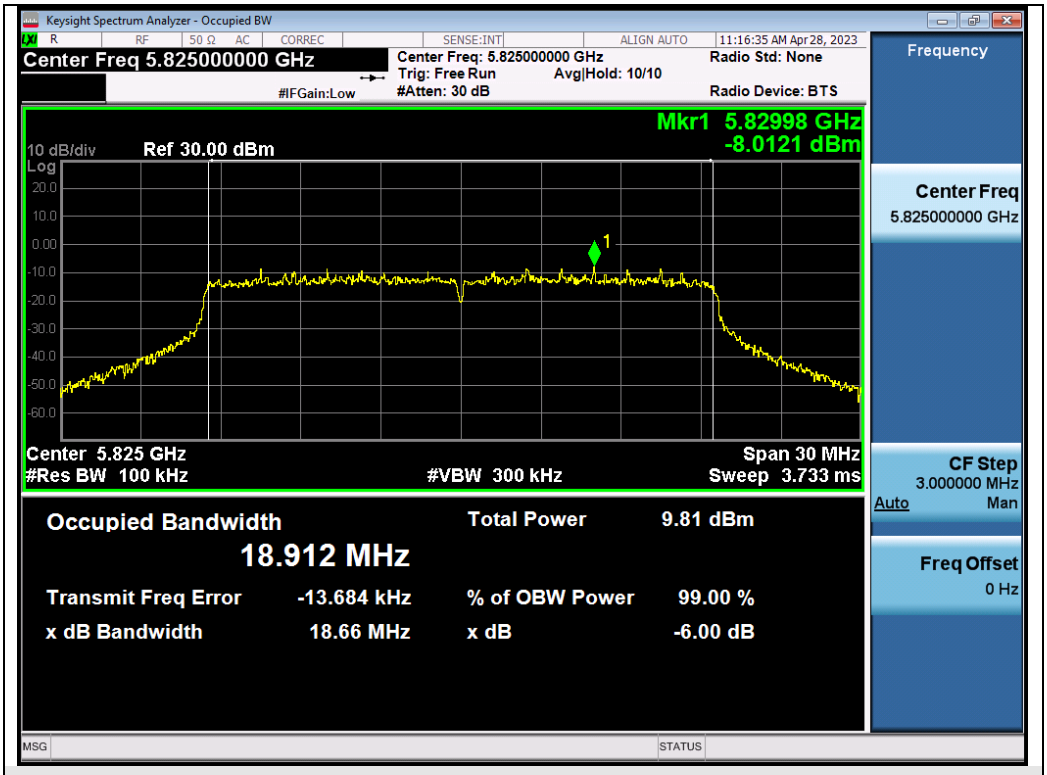

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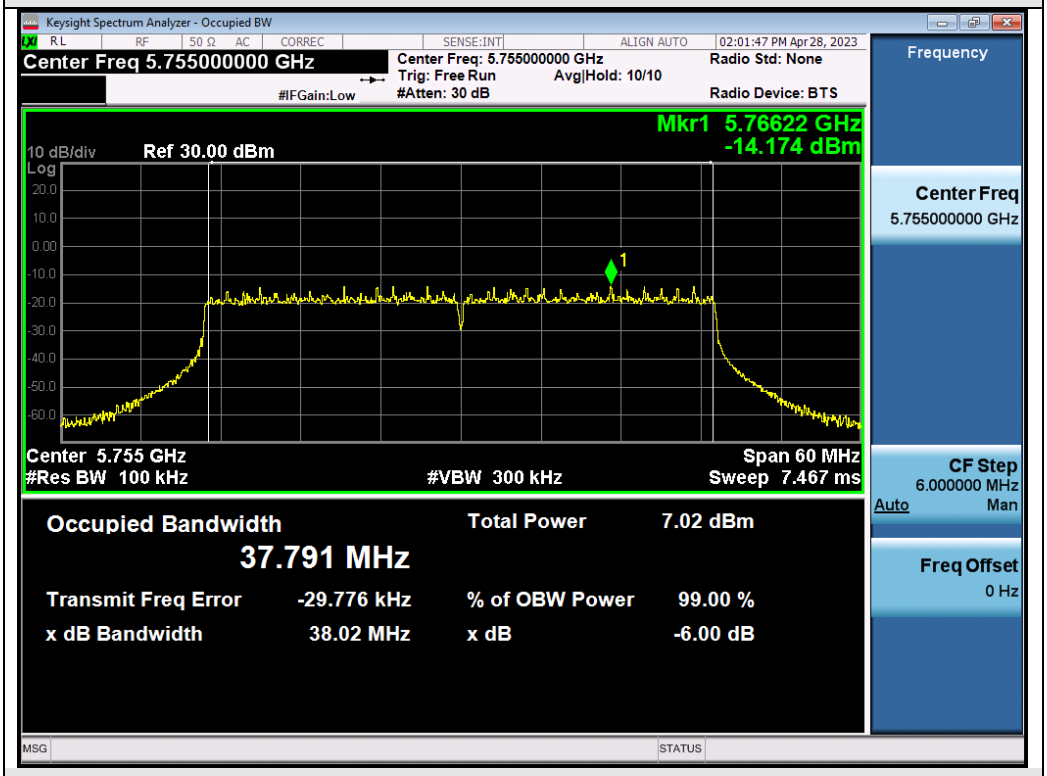

Test_Graph_802.11ax40_ANT1_5755_MCS0_DTSBW

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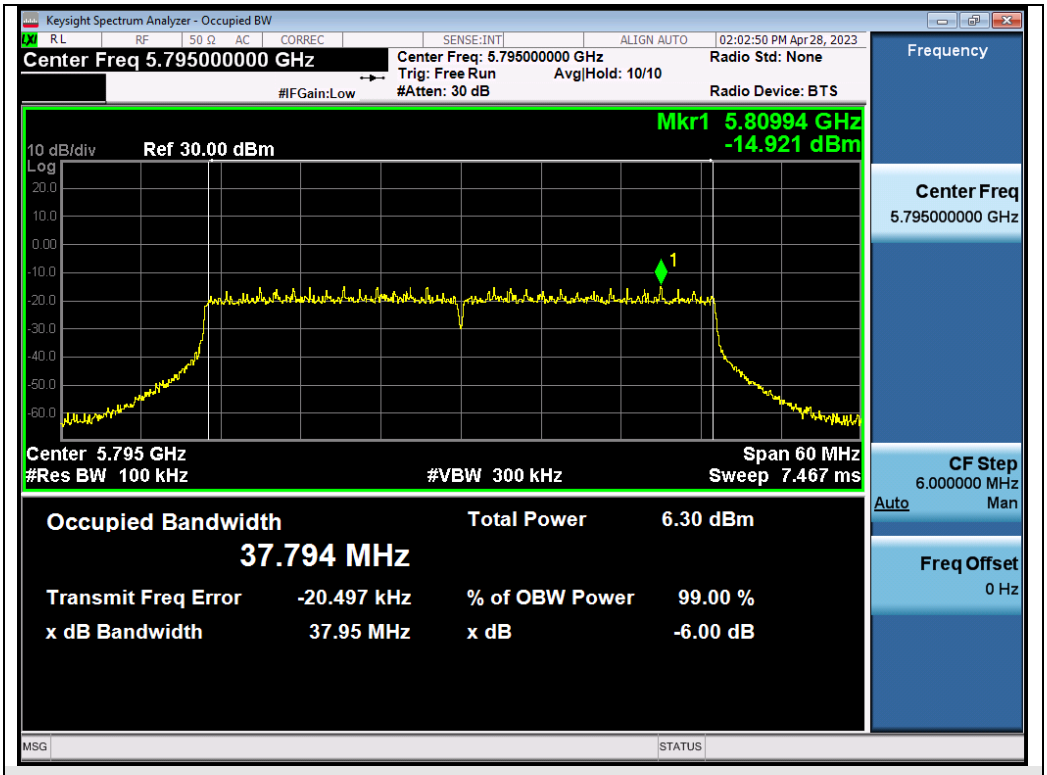

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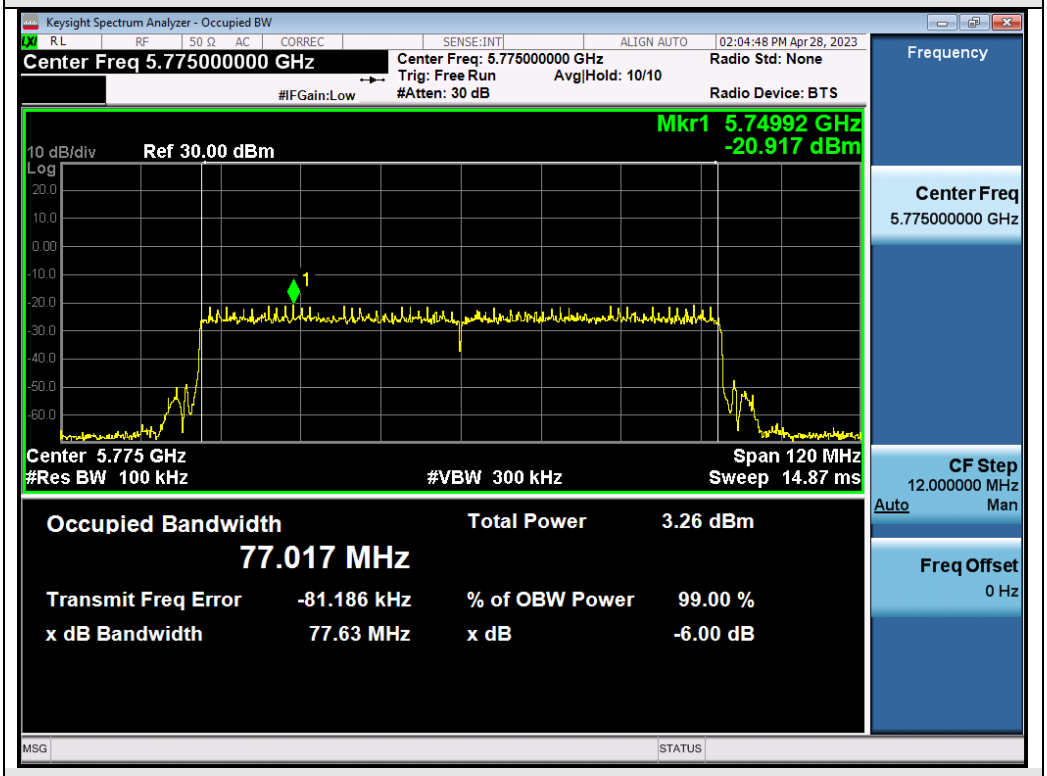

Test_Graph_802.11ax80_ANT1_5775_MCS0_DTSBW

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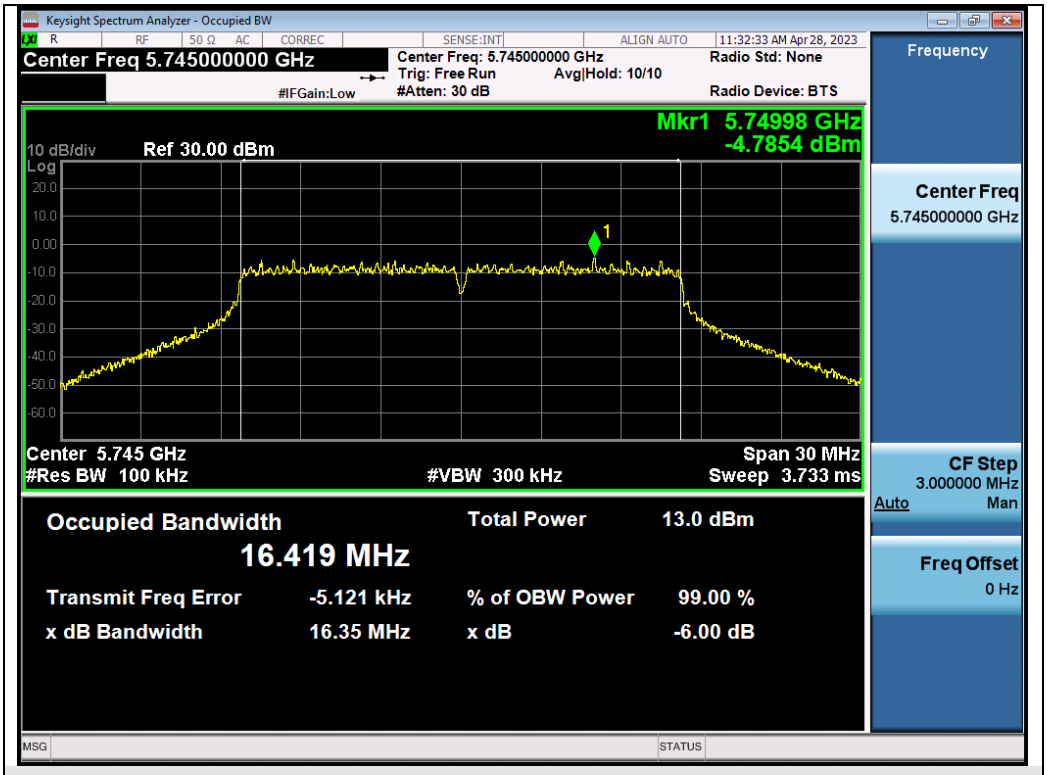
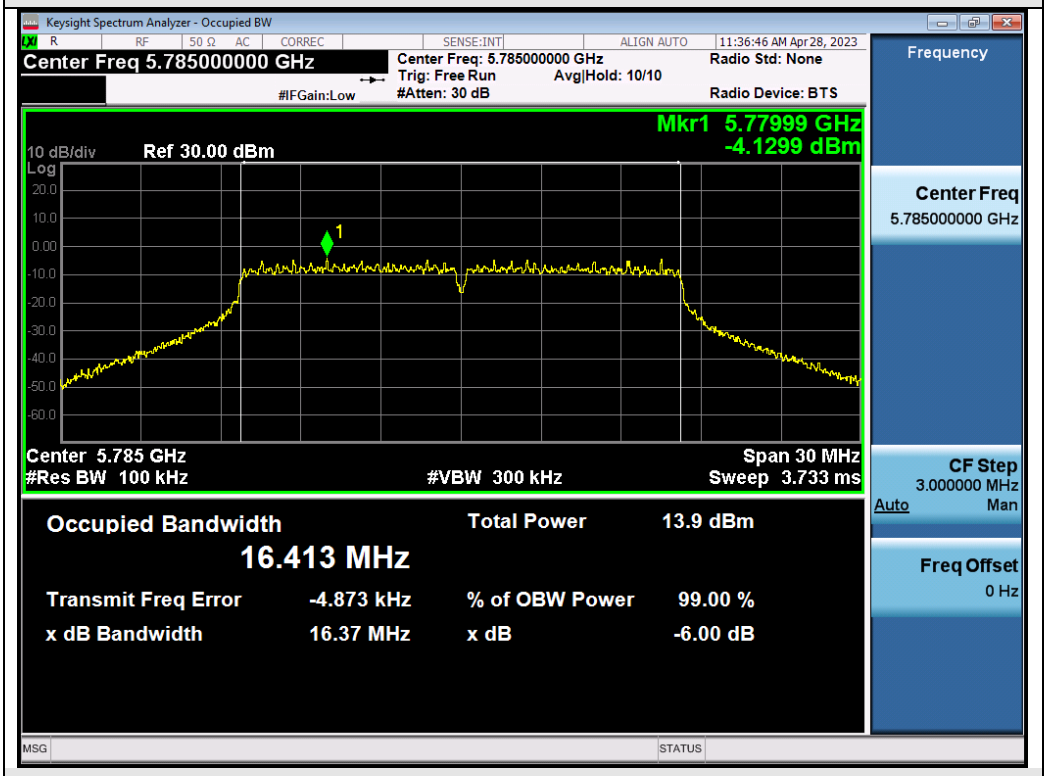


Test_Graph_802.11a_ANT2_5745_6Mbps_DTSBW



Test_Graph_802.11a_ANT2_5785_6Mbps_DTSBW

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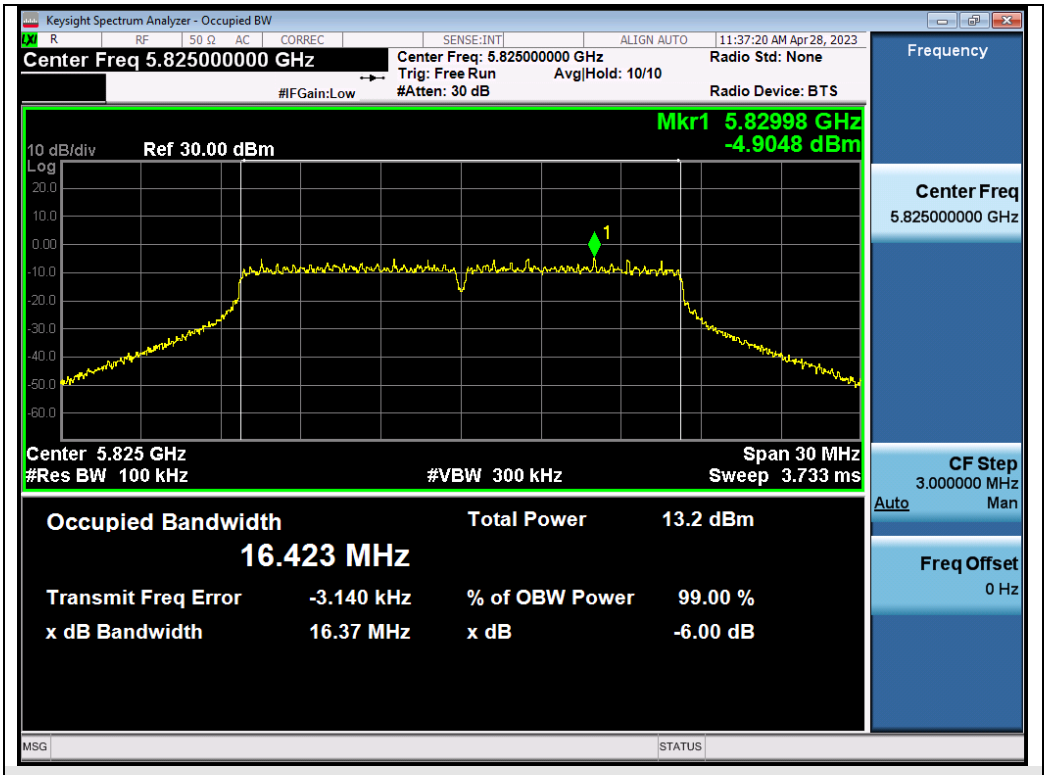
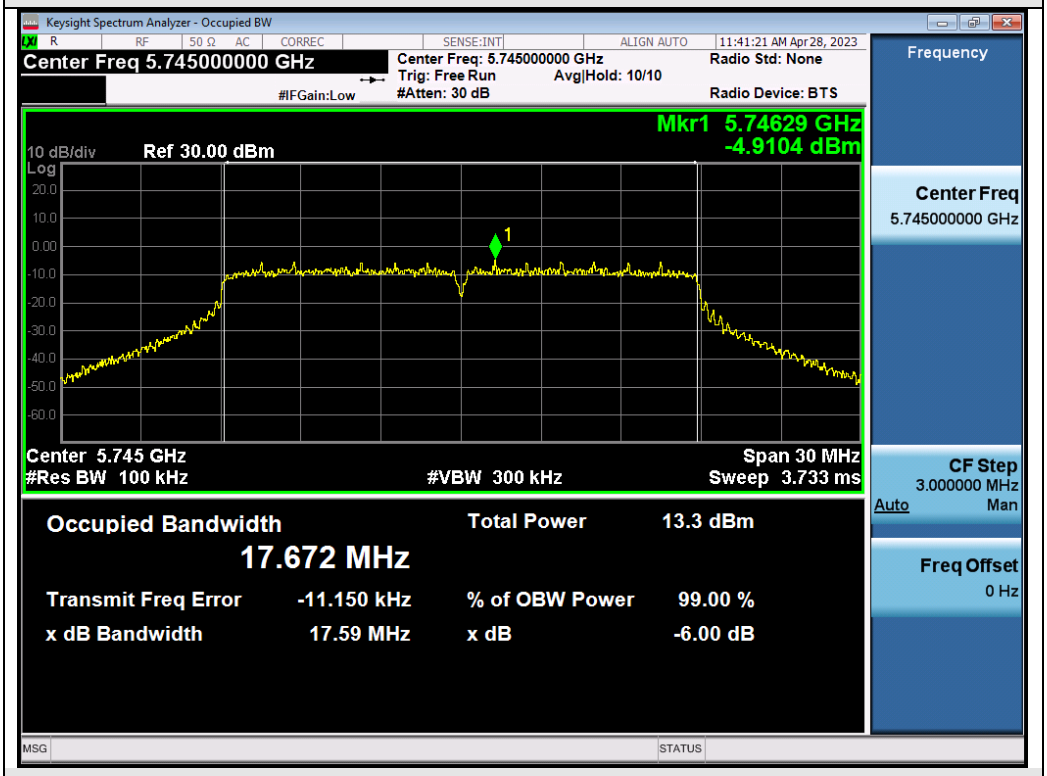


Test_Graph_802.11a_ANT2_5825_6Mbps_DTSBW



Test_Graph_802.11n20_ANT2_5745_MCS0_DTSBW

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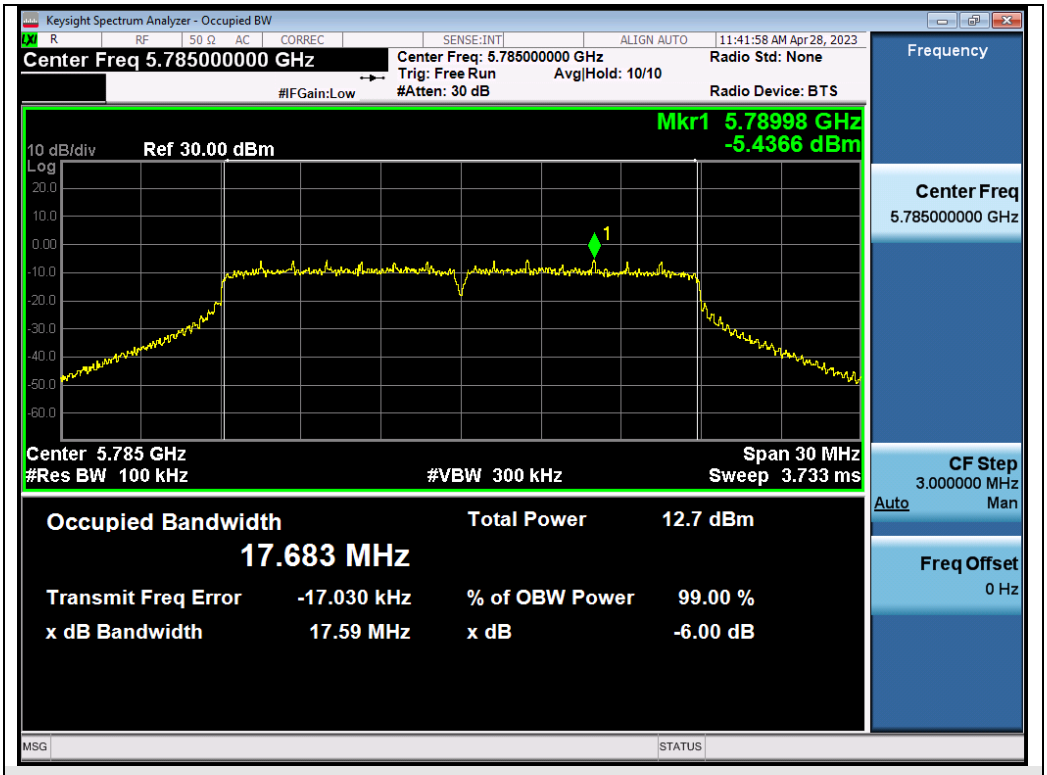

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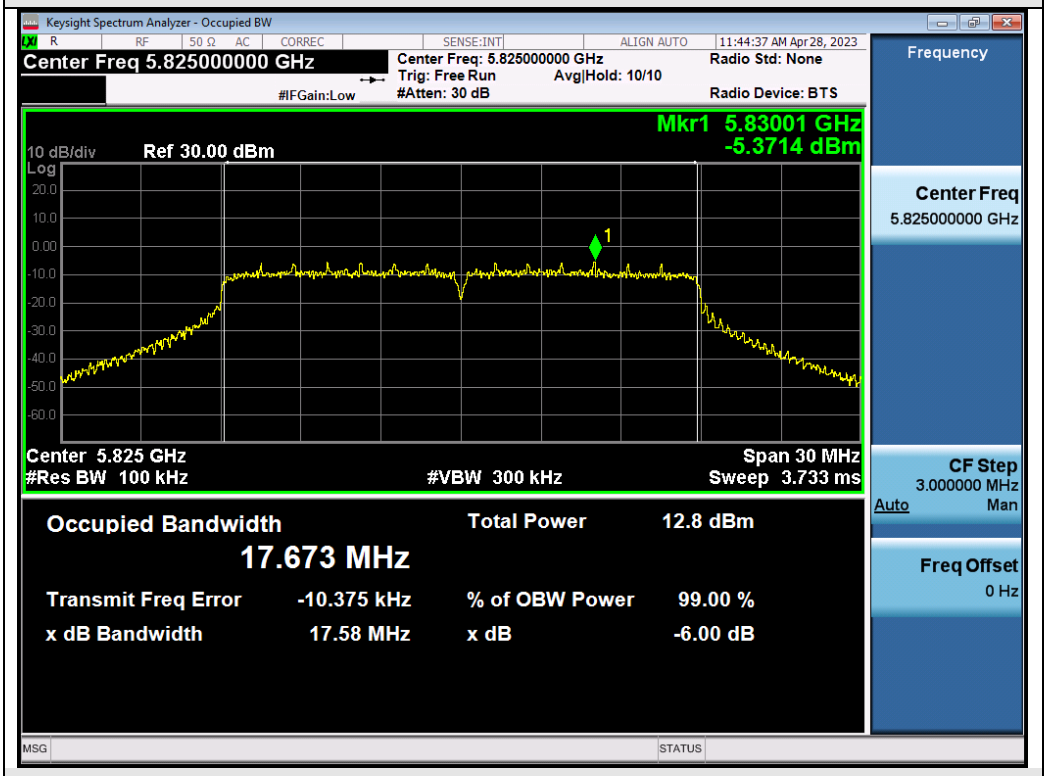

Test_Graph_802.11n20_ANT2_5825_MCS0_DTSBW

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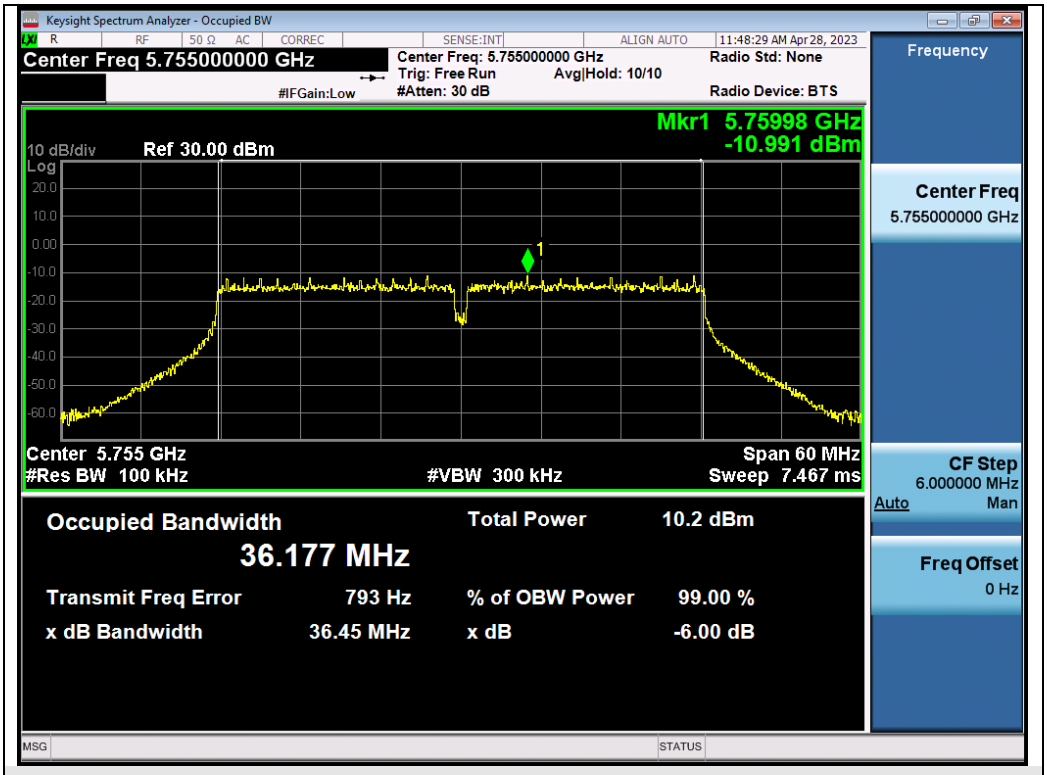

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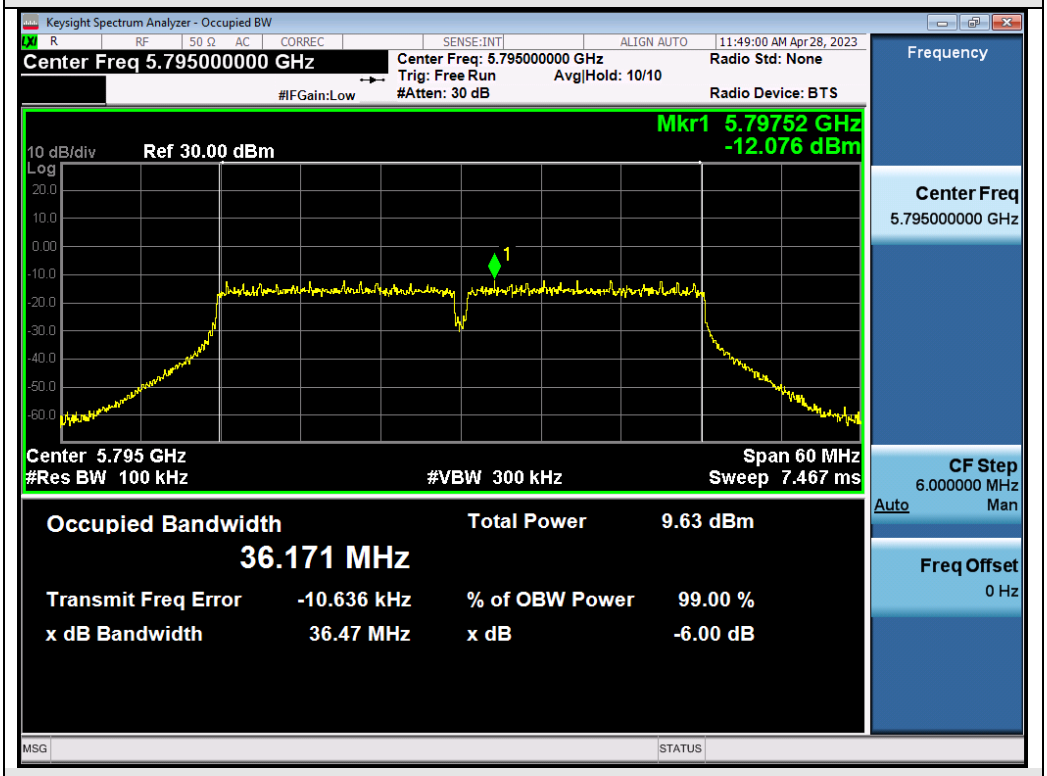

Test_Graph_802.11n40_ANT2_5795_MCS0_DTSBW

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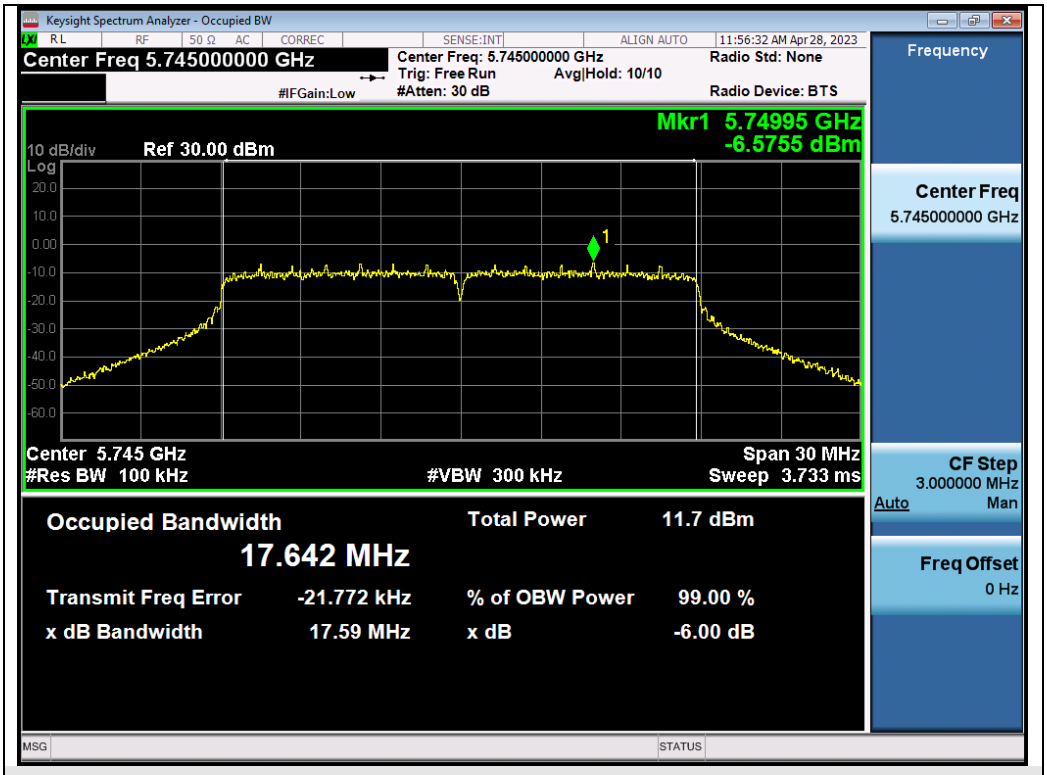

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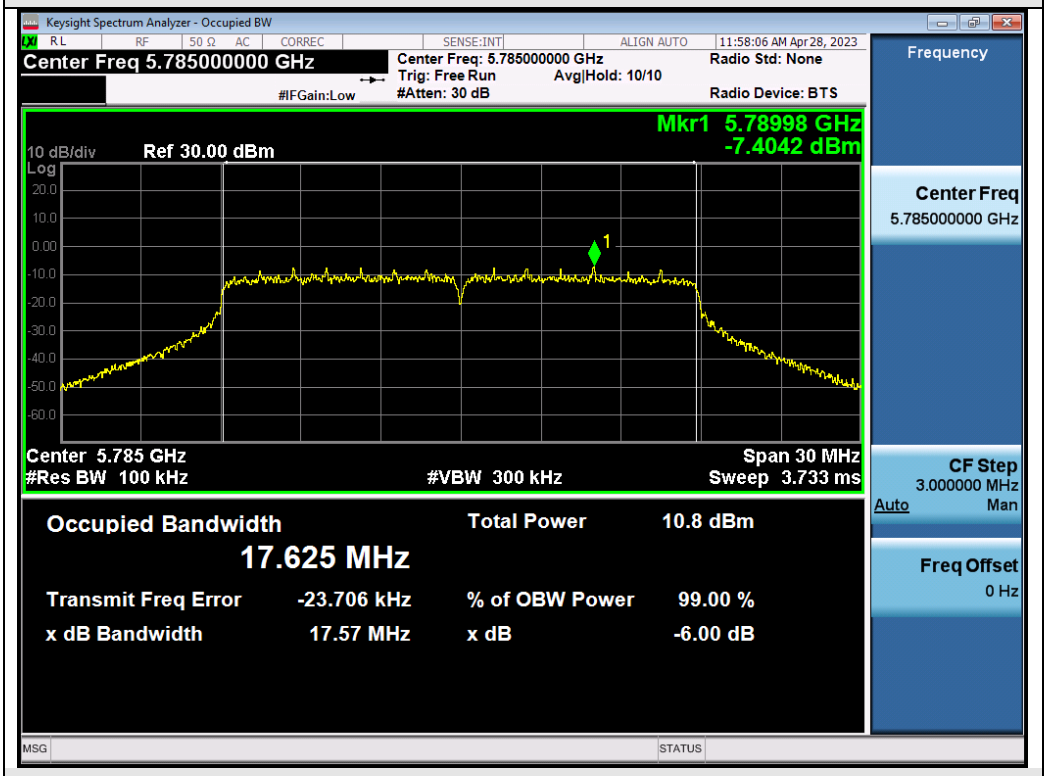

Test_Graph_802.11ac20_ANT2_5785_MCS0_DTSBW

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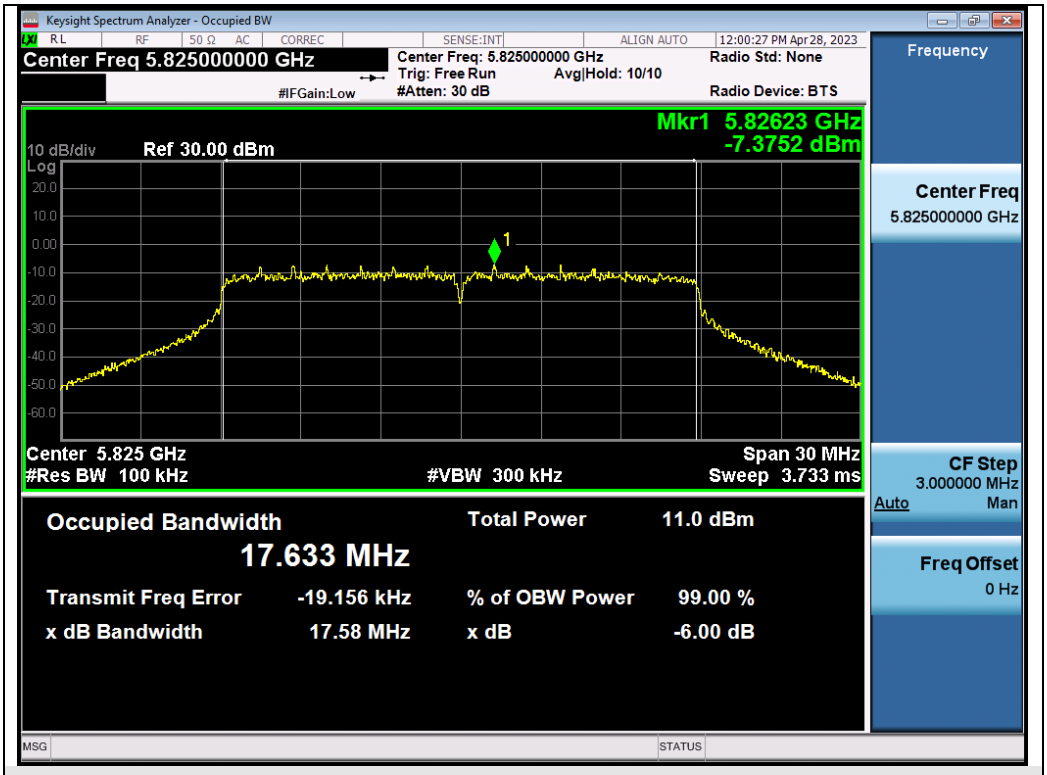
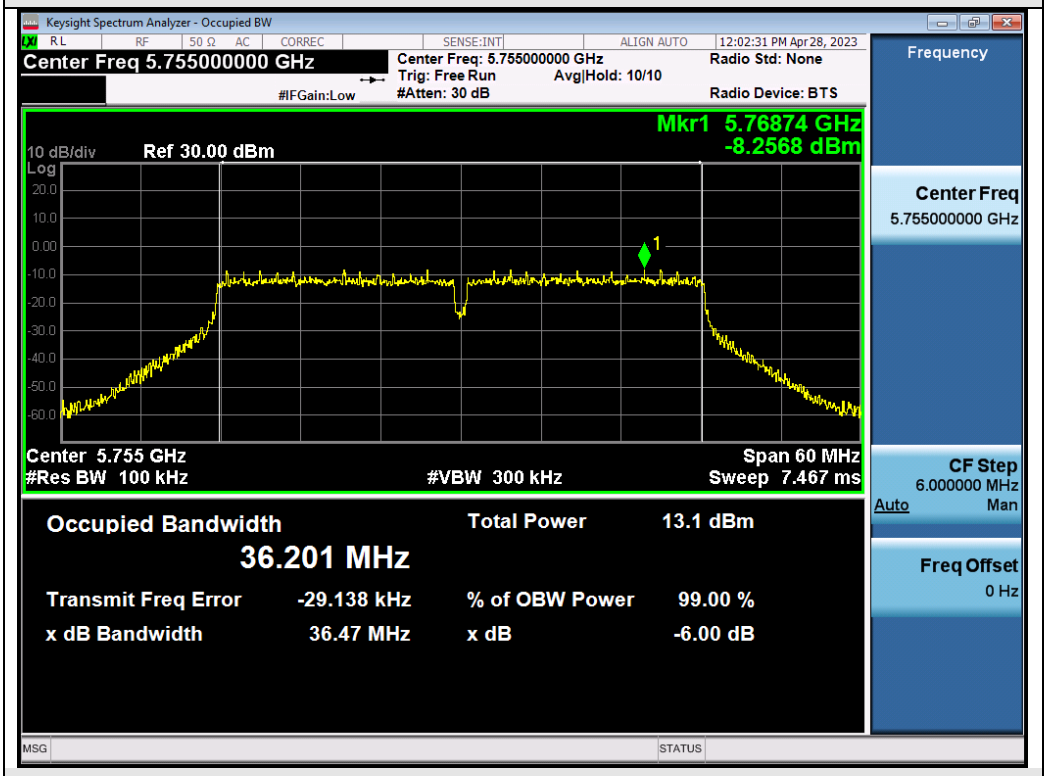


Test_Graph_802.11ac20_ANT2_5825_MCS9_DTSBW



Test_Graph_802.11ac40_ANT2_5755_MCS9_DTSBW

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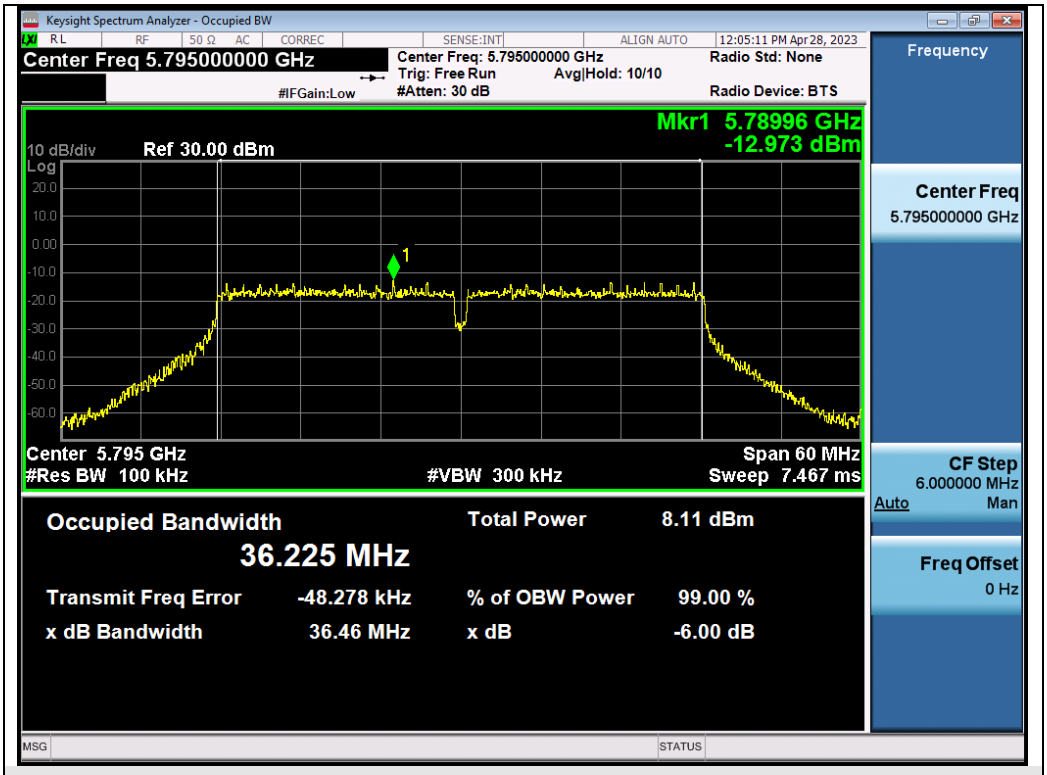

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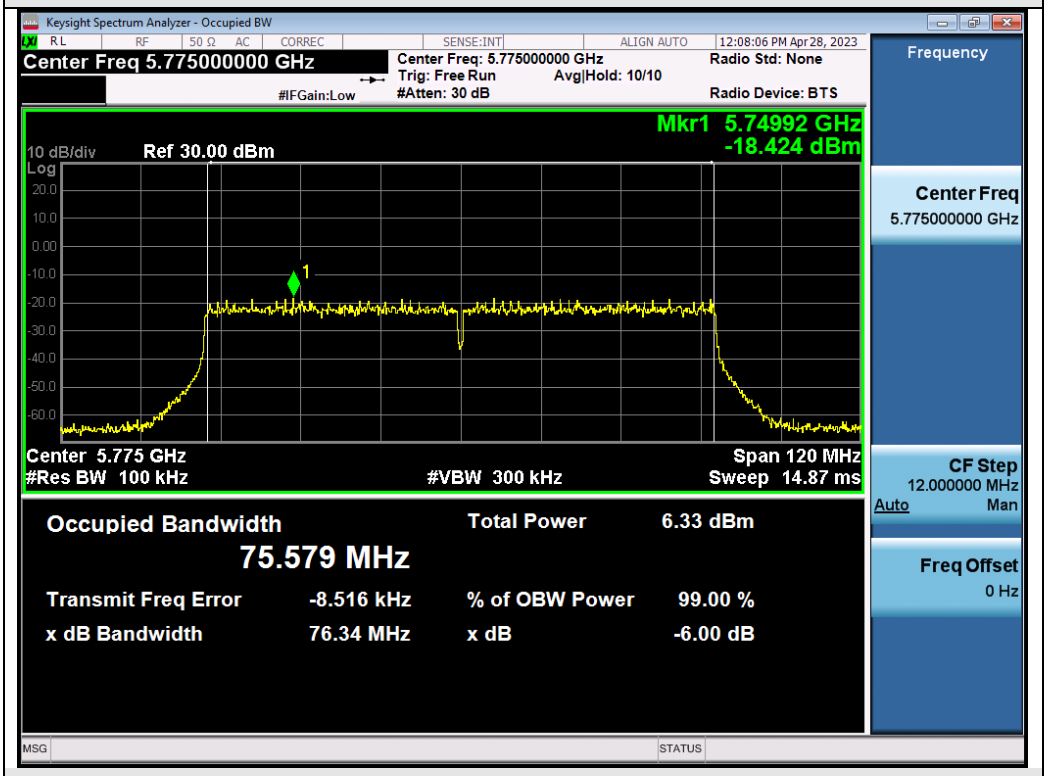

Test_Graph_802.11ac80_ANT2_5775_MCS9_DTSBW

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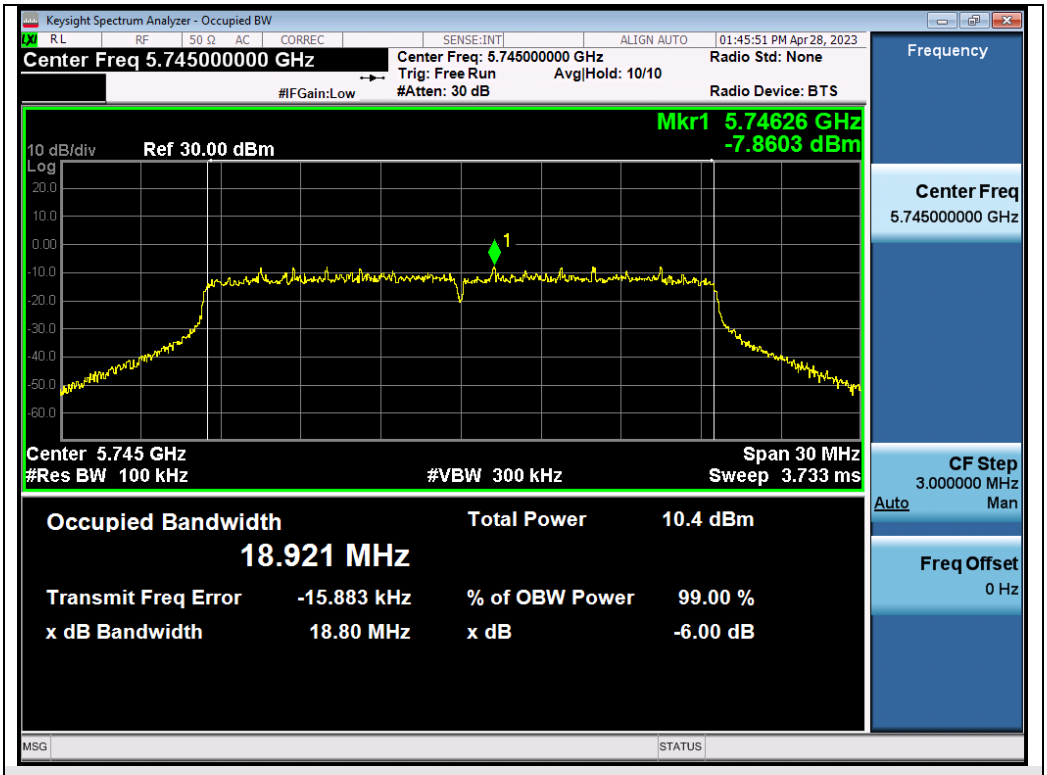

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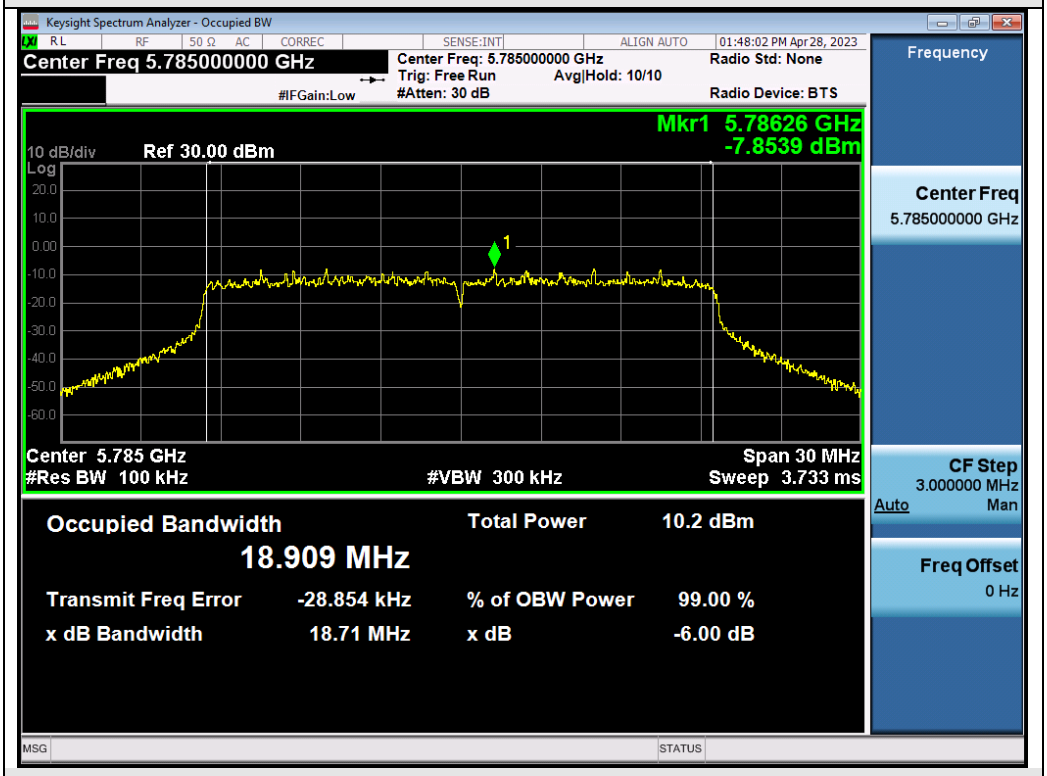

Test_Graph_802.11ax20_ANT2_5785_MCS0_DTSBW

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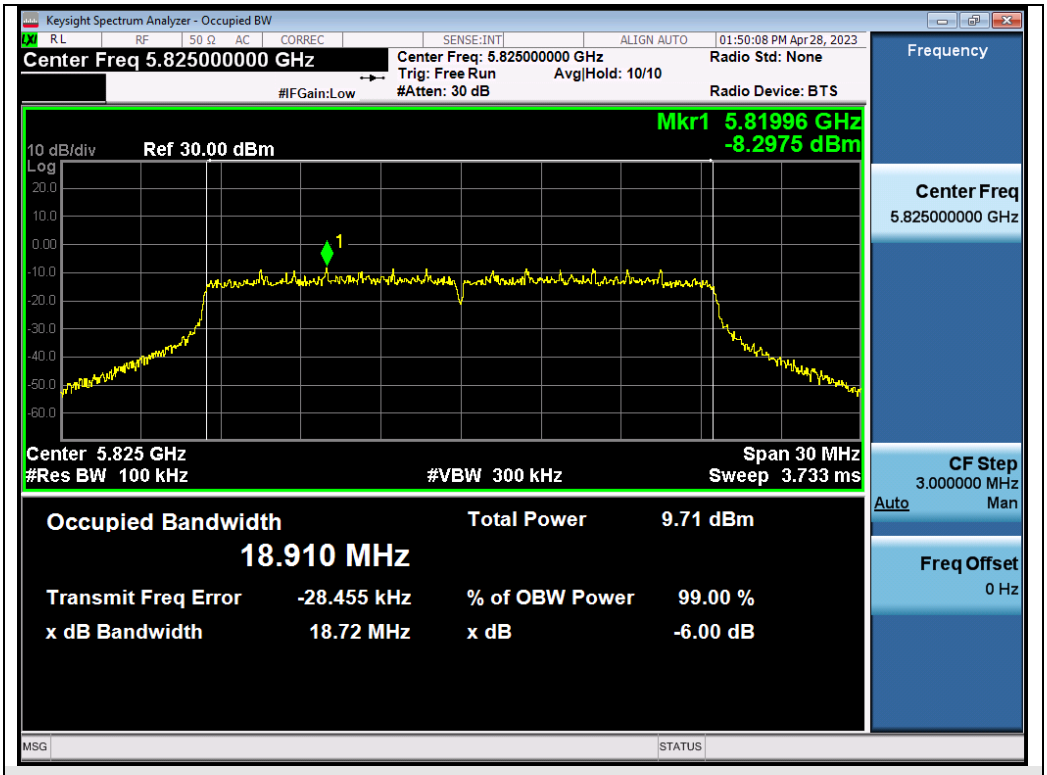

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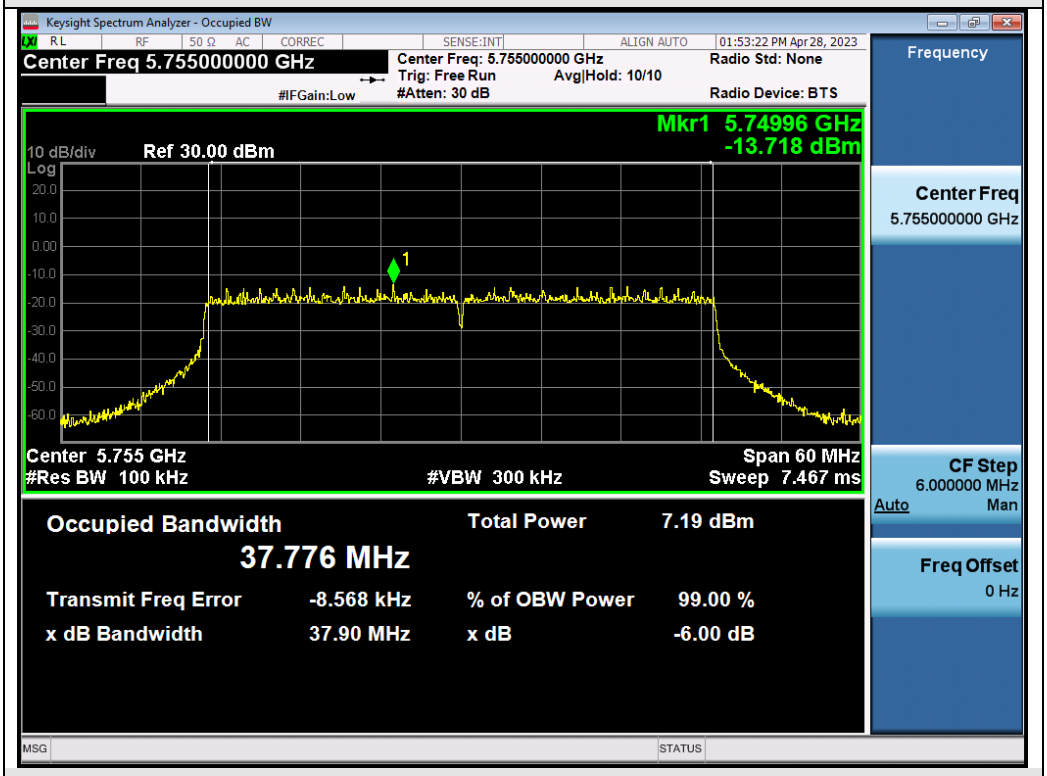

Test_Graph_802.11ax40_ANT2_5755_MCS0_DTSBW

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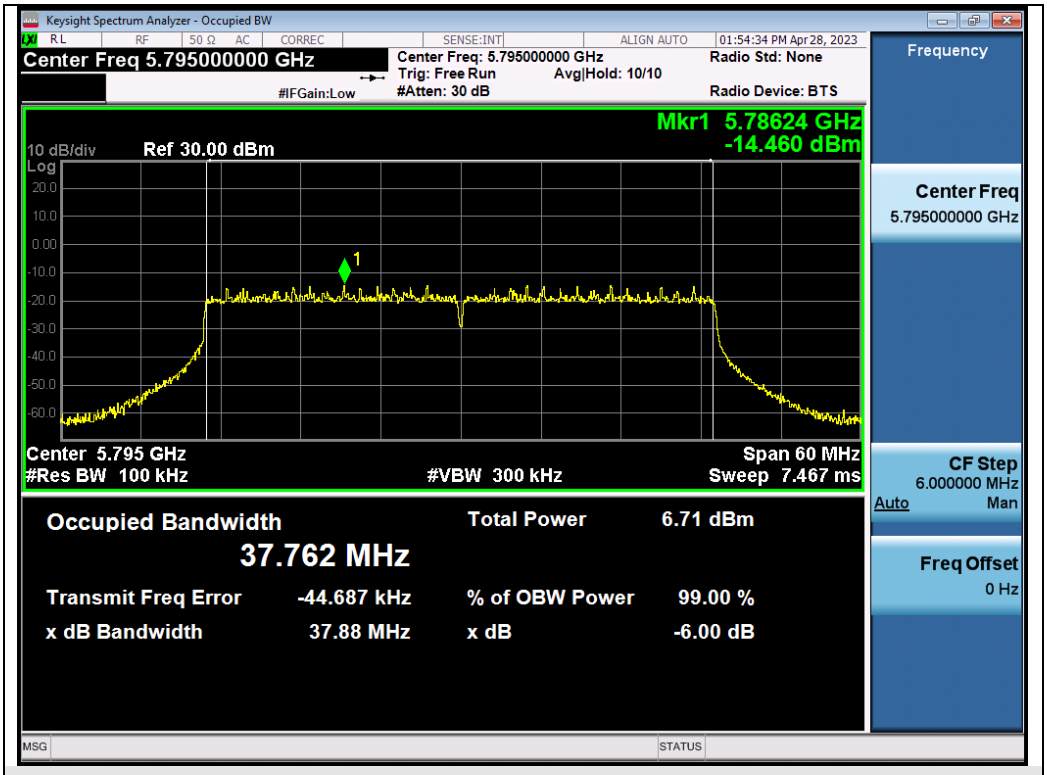

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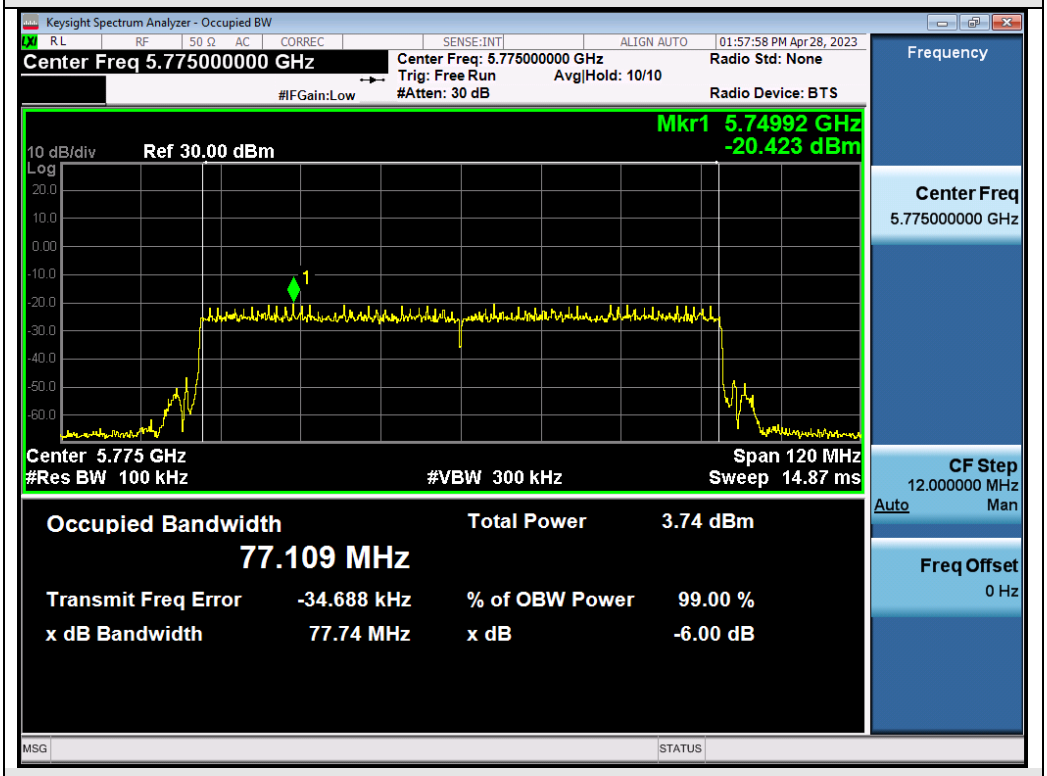

Test_Graph_802.11ax80_ANT2_5775_MCS0_DTSBW

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8. POWER SPECTRAL DENSITY MEASUREMENT

8.1 MEASUREMENT LIMITS

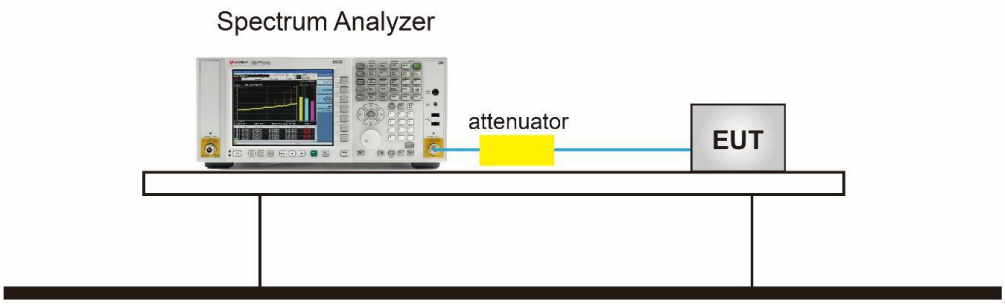
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

8.2 MEASUREMENT PROCEDURE

☒For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz.
4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
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 100 kHz, add a constant factor 10*log(500kHz/100kHz) = 6.99 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.

8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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8.4 MEASUREMENT RESULT

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-ANT 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	-3.749	11	Pass
	5200	2.016	11	Pass
	5240	1.207	11	Pass
802.11n20	5180	1.635	11	Pass
	5200	1.215	11	Pass
	5240	0.715	11	Pass
802.11n40	5190	-2.188	11	Pass
	5230	-1.792	11	Pass
802.11ac20	5180	-1.109	11	Pass
	5200	-0.974	11	Pass
	5240	-1.268	11	Pass
802.11ac40	5190	-3.992	11	Pass
	5230	-4.127	11	Pass
802.11ac80	5210	-6.447	11	Pass
802.11ax20	5180	-2.562	11	Pass
	5200	-2.283	11	Pass
	5240	-2.318	11	Pass
802.11ax40	5190	-5.505	11	Pass
	5230	-5.558	11	Pass
802.11ax80	5210	-7.105	11	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-ANT 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	1.086	11	Pass
	5200	1.309	11	Pass
	5240	0.266	11	Pass
802.11n20	5180	0.913	11	Pass
	5200	0.699	11	Pass
	5240	0.761	11	Pass
802.11n40	5190	-2.451	11	Pass
	5230	-2.613	11	Pass
802.11ac20	5180	0.599	11	Pass
	5200	0.306	11	Pass
	5240	-0.997	11	Pass
802.11ac40	5190	-4.842	11	Pass
	5230	-5.157	11	Pass
802.11ac80	5210	-7.854	11	Pass
802.11ax20	5180	-1.392	11	Pass
	5200	-1.157	11	Pass
	5240	-1.747	11	Pass
802.11ax40	5190	-4.692	11	Pass
	5230	-4.997	11	Pass
802.11ax80	5210	-8.916	11	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5180	4.299	10.54	Pass
	5200	3.975	10.54	Pass
	5240	3.748	10.54	Pass
802.11n40	5190	0.693	10.54	Pass
	5230	0.827	10.54	Pass
802.11ac20	5180	2.839	10.54	Pass
	5200	2.723	10.54	Pass
	5240	1.880	10.54	Pass
802.11ac40	5190	-1.386	10.54	Pass
	5230	-1.601	10.54	Pass
802.11ac80	5210	-4.083	10.54	Pass
802.11ax20	5180	1.073	10.54	Pass
	5200	1.327	10.54	Pass
	5240	0.987	10.54	Pass
802.11ax40	5190	-2.069	10.54	Pass
	5230	-2.258	10.54	Pass
802.11ax80	5210	-4.906	10.54	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT 1					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-9.523	-2.533	30	Pass
	5785	-9.885	-2.895	30	Pass
	5825	-9.397	-2.407	30	Pass
802.11n20	5745	-10.416	-3.426	30	Pass
	5785	-10.330	-3.340	30	Pass
	5825	-10.689	-3.699	30	Pass
802.11n40	5755	-13.098	-6.108	30	Pass
	5795	-12.761	-5.771	30	Pass
802.11ac20	5745	-10.968	-3.978	30	Pass
	5785	-10.807	-3.817	30	Pass
	5825	-11.388	-4.398	30	Pass
802.11ac40	5755	-13.567	-6.577	30	Pass
	5795	-15.000	-8.010	30	Pass
802.11ac80	5775	-17.112	-10.122	30	Pass
802.11ax20	5745	-12.399	-5.409	30	Pass
	5785	-11.756	-4.766	30	Pass
	5825	-12.265	-5.275	30	Pass
802.11ax40	5755	-15.616	-8.626	30	Pass
	5795	-16.513	-9.541	30	Pass
802.11ax80	5775	-18.993	-12.003	30	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT 2					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-9.044	-2.054	30	Pass
	5785	-8.457	-1.467	30	Pass
	5825	-9.497	-2.507	30	Pass
802.11n20	5745	-9.587	-2.597	30	Pass
	5785	-9.488	-2.498	30	Pass
	5825	-10.104	-3.114	30	Pass
802.11n40	5755	-11.350	-4.360	30	Pass
	5795	-12.345	-5.355	30	Pass
802.11ac20	5745	-11.459	-4.469	30	Pass
	5785	-10.668	-3.678	30	Pass
	5825	-10.764	-3.774	30	Pass
802.11ac40	5755	-13.891	-6.901	30	Pass
	5795	-14.503	-7.513	30	Pass
802.11ac80	5775	-16.664	-9.674	30	Pass
802.11ax20	5745	-12.063	-5.073	30	Pass
	5785	-11.226	-4.236	30	Pass
	5825	-12.137	-5.147	30	Pass
802.11ax40	5755	-15.691	-8.701	30	Pass
	5795	-15.714	-8.724	30	Pass
802.11ax80	5775	-18.354	-11.364	30	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11n20	5745	-6.971	0.019	29.54	Pass
	5785	-6.878	0.112	29.54	Pass
	5825	-7.376	-0.386	29.54	Pass
802.11n40	5755	-9.126	-2.136	29.54	Pass
	5795	-9.538	-2.548	29.54	Pass
802.11ac20	5745	-8.196	-1.206	29.54	Pass
	5785	-7.727	-0.737	29.54	Pass
	5825	-8.055	-1.065	29.54	Pass
802.11ac40	5755	-10.716	-3.726	29.54	Pass
	5795	-11.734	-4.744	29.54	Pass
802.11ac80	5775	-13.872	-6.882	29.54	Pass
802.11ax20	5745	-9.217	-2.227	29.54	Pass
	5785	-8.473	-1.483	29.54	Pass
	5825	-9.190	-2.200	29.54	Pass
802.11ax40	5755	-12.643	-5.653	29.54	Pass
	5795	-13.085	-6.103	29.54	Pass
802.11ax80	5775	-15.651	-8.661	29.54	Pass

Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

2.The Total PSD (dBm/500kHz) = 10*log {$10^{(\text{Ant 1 PSD}/10)}$ + $10^{(\text{Ant 2 PSD}/10)}$}(dBm/500kHz)

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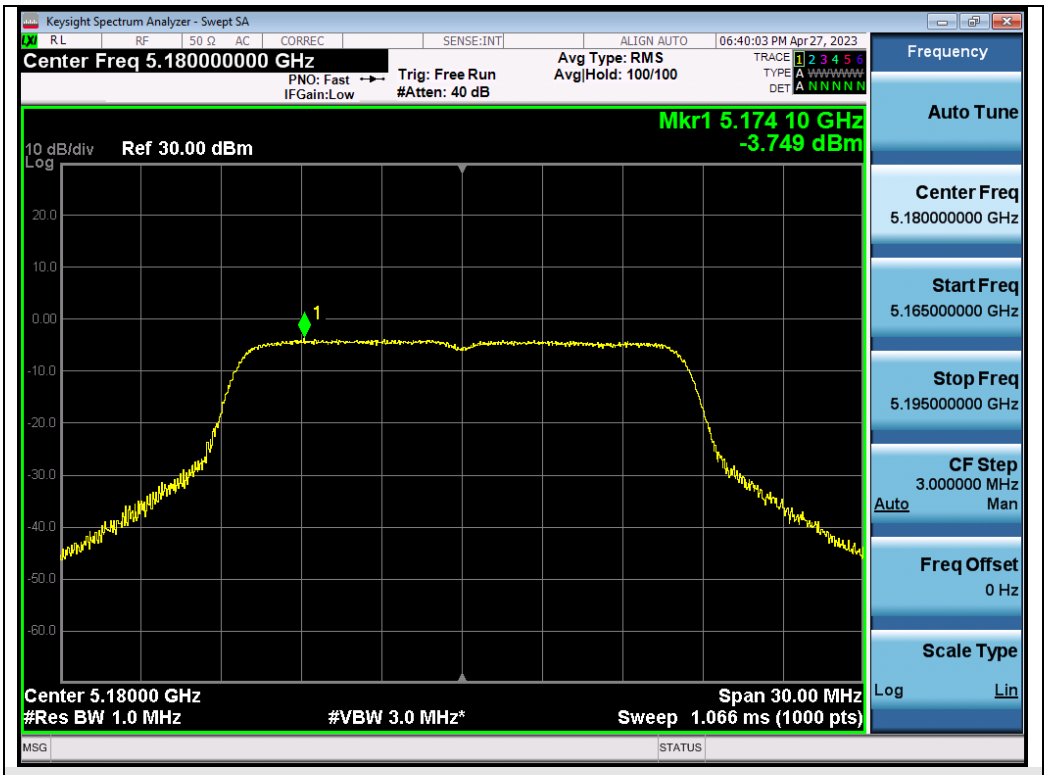
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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Test_Graph_802.11a_ANT1_5240_6Mbps_PSD

Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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Test_Graph_802.11n20_ANT1_5200_MCS0_PSD

Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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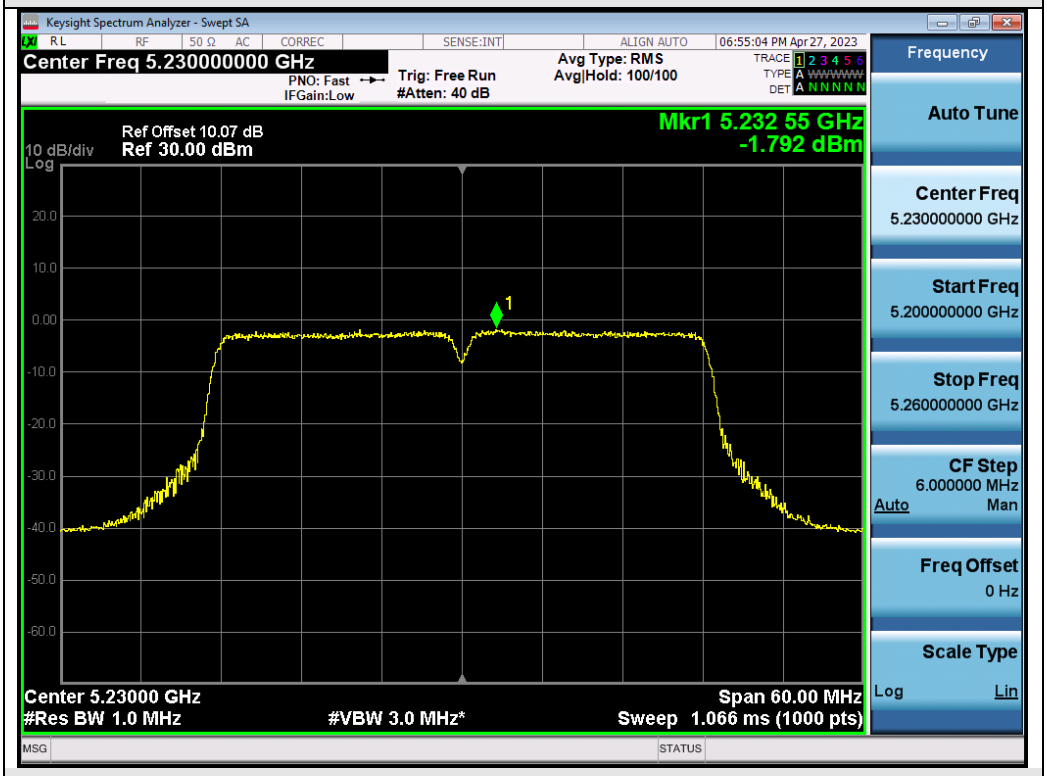
Test_Graph_802.11n40_ANT1_5190_MCS0_PSD



Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD

Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

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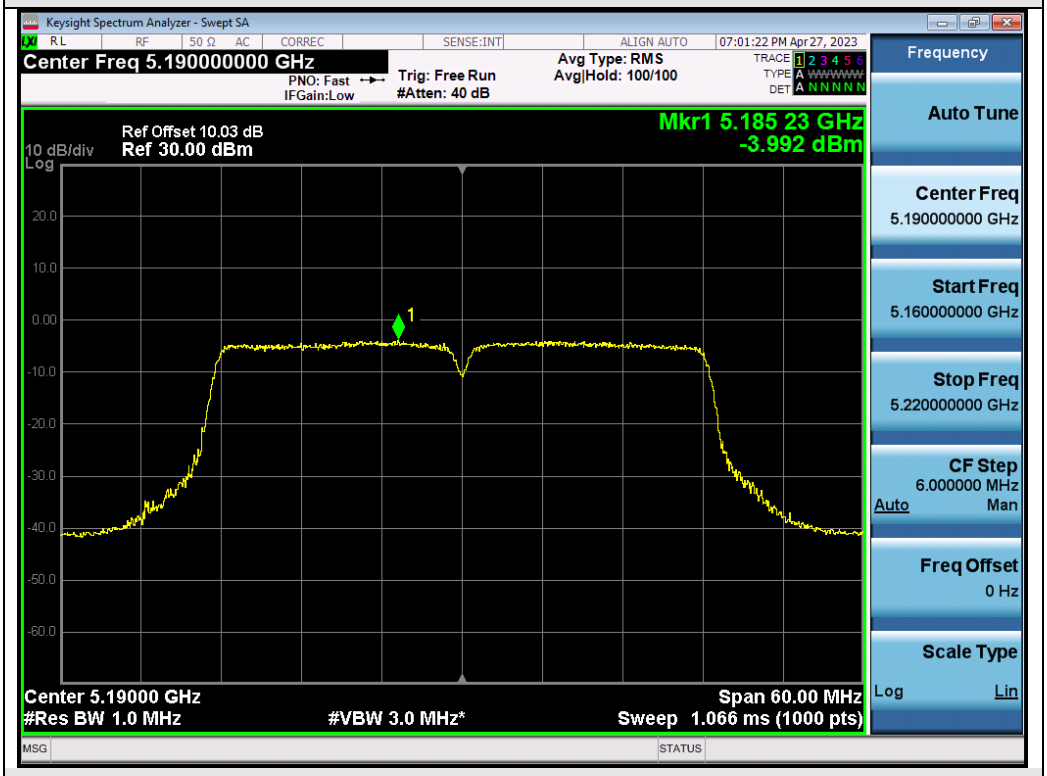
Test_Graph_802.11ac20_ANT1_5240_MCS9_PSD



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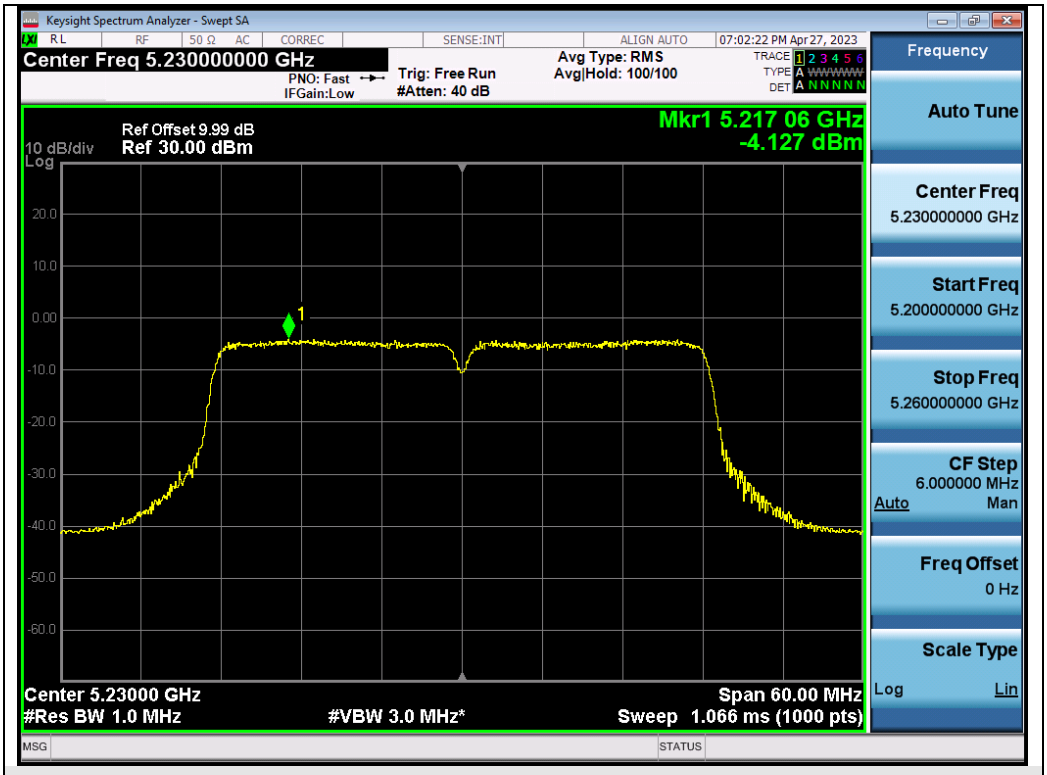
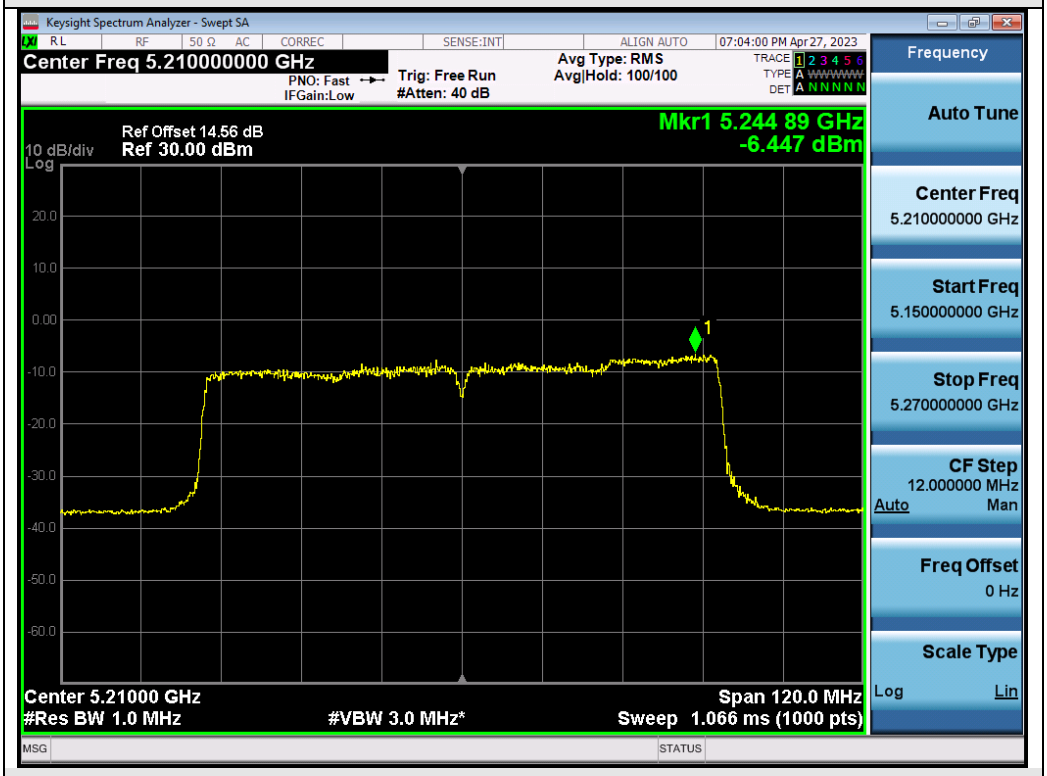


Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD



Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD

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Test_Graph_802.11ax20_ANT1_5180_MCS0_PSD

Test_Graph_802.11ax20_ANT1_5200_MCS0_PSD

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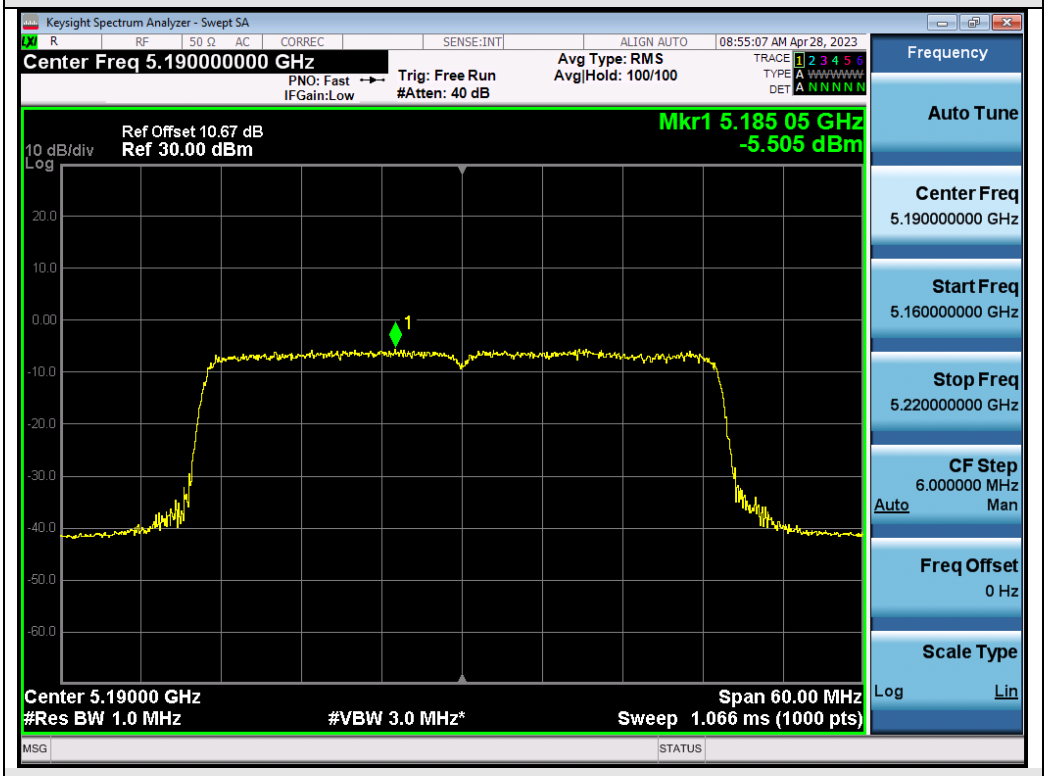
Test_Graph_802.11ax20_ANT1_5240_MCS0_PSD



Test_Graph_802.11ax40_ANT1_5190_MCS0_PSD

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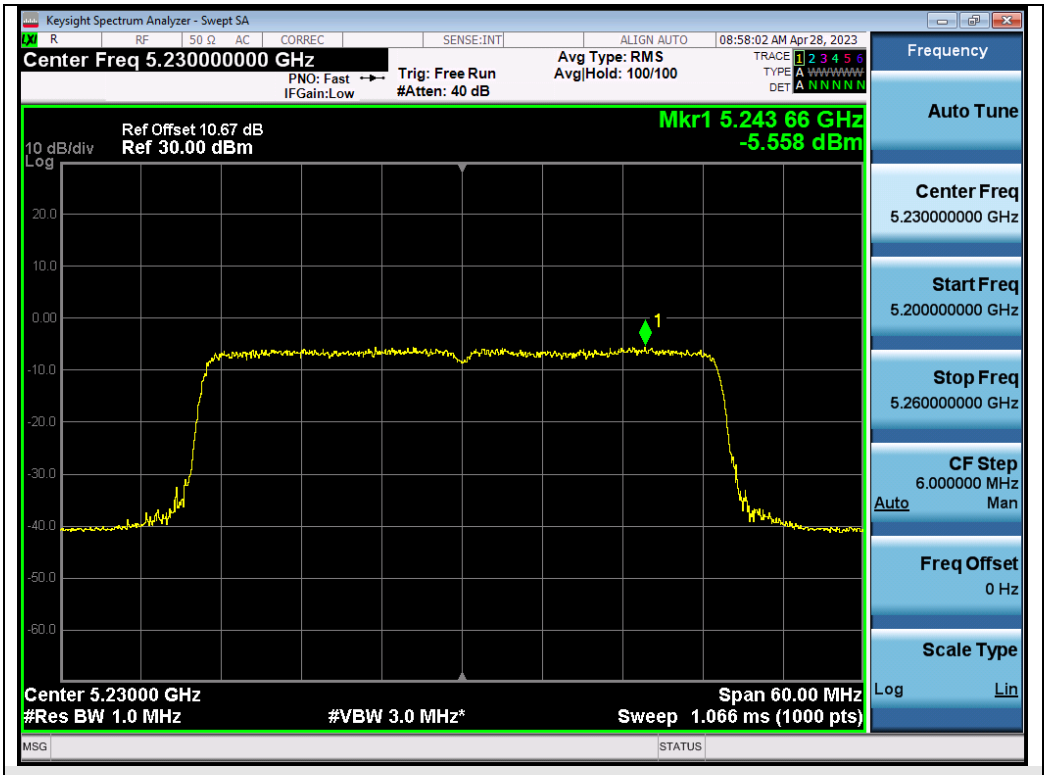

Test_Graph_802.11ax40_ANT1_5230_MCS0_PSD

Test_Graph_802.11ax80_ANT1_5210_MCS0_PSD

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Test_Graph_802.11a_ANT2_5180_6Mbps_PSD

Test_Graph_802.11a_ANT2_5200_6Mbps_PSD

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Test_Graph_802.11a_ANT2_5240_6Mbps_PSD

Test_Graph_802.11n20_ANT2_5180_MCS0_PSD

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Test_Graph_802.11n20_ANT2_5200_MCS0_PSD

Test_Graph_802.11n20_ANT2_5240_MCS0_PSD

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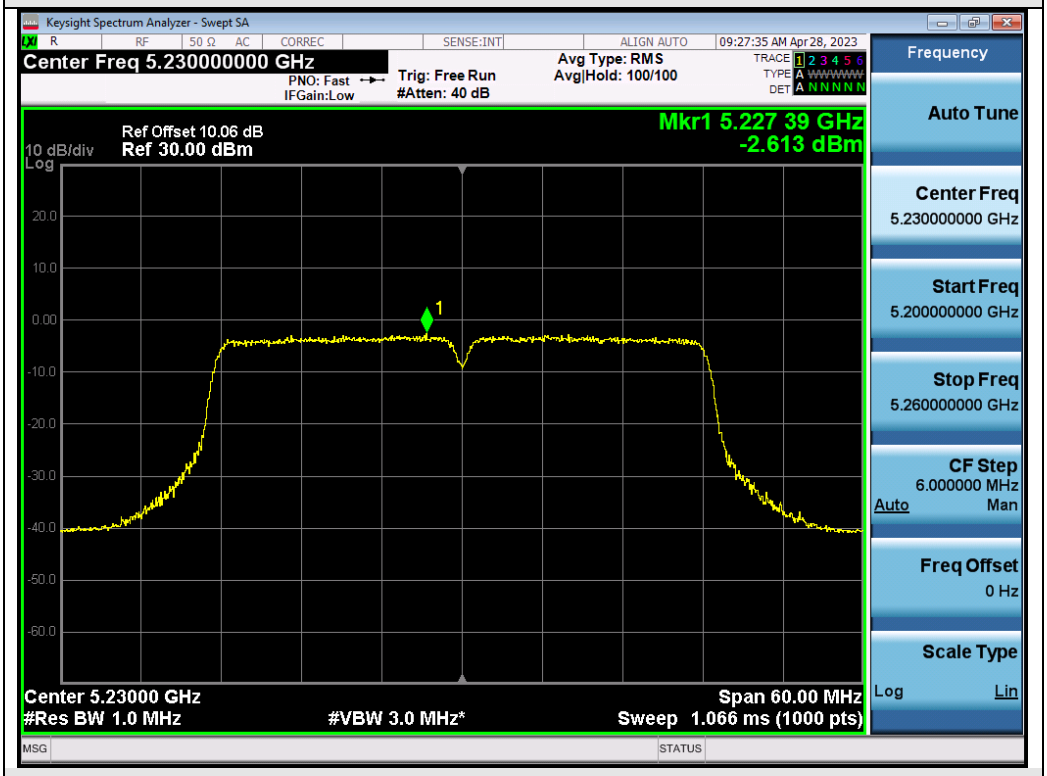
Test_Graph_802.11n40_ANT2_5190_MCS0_PSD



Test_Graph_802.11n40_ANT2_5230_MCS0_PSD

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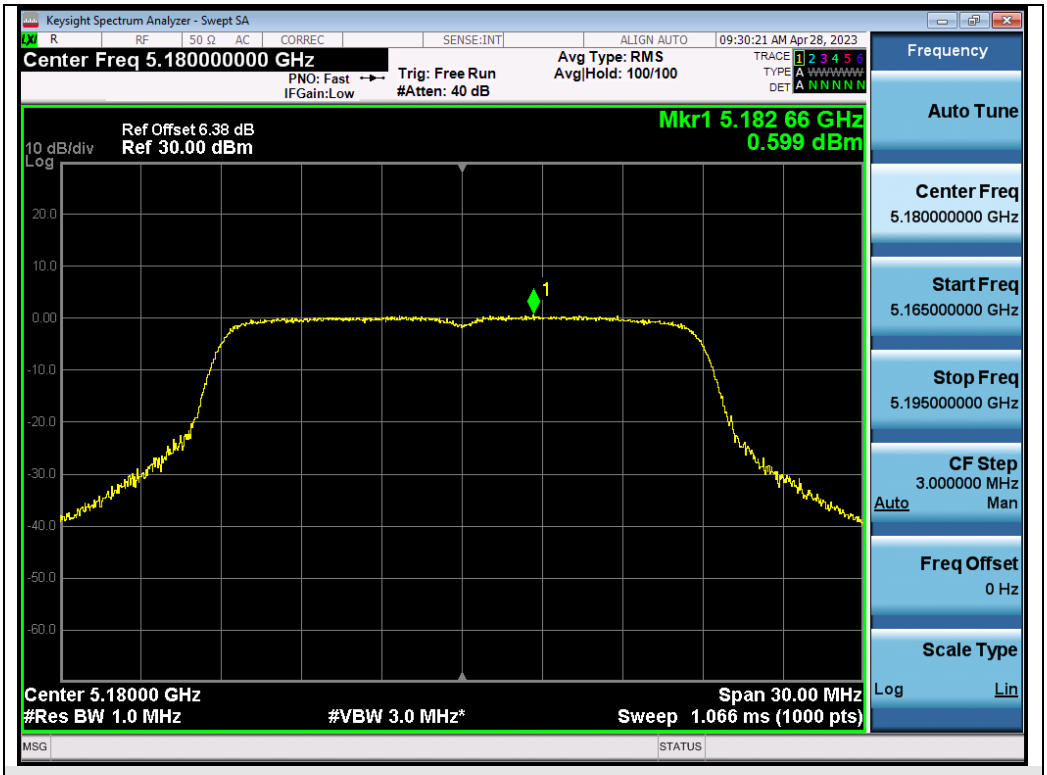

Test_Graph_802.11ac20_ANT2_5180_MCS0_PSD

Test_Graph_802.11ac20_ANT2_5200_MCS0_PSD

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Test_Graph_802.11ac20_ANT2_5240_MCS9_PSD

Test_Graph_802.11ac40_ANT2_5190_MCS9_PSD

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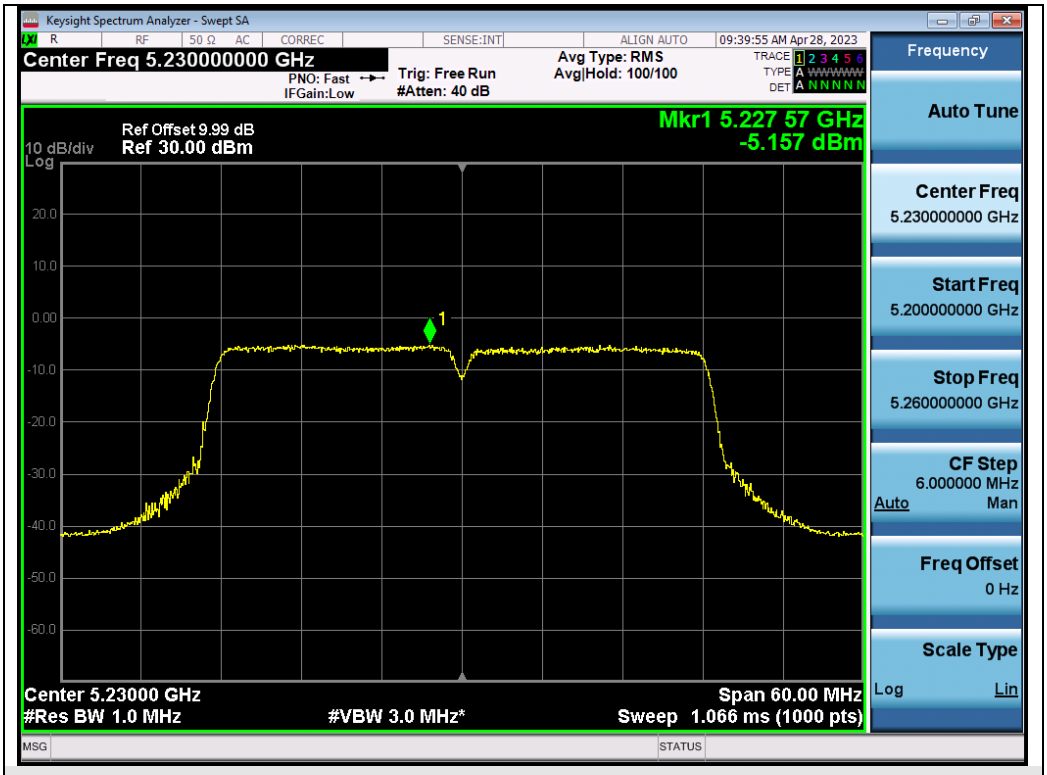
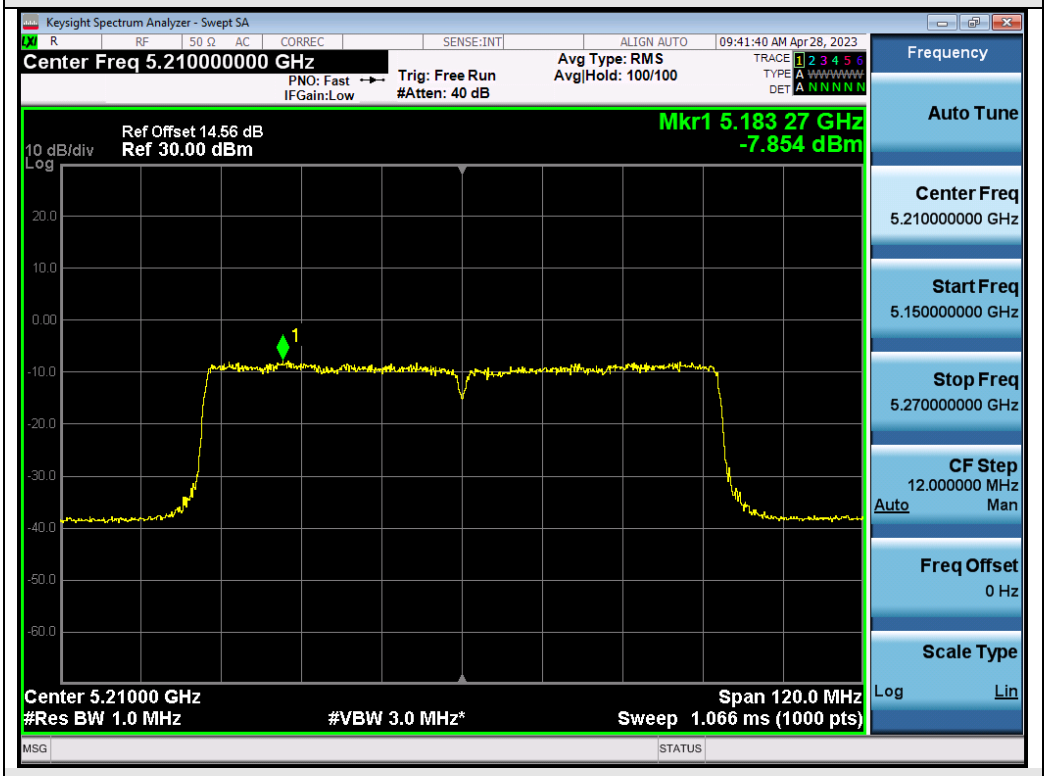


Test_Graph_802.11ac40_ANT2_5230_MCS9_PSD



Test_Graph_802.11ac80_ANT2_5210_MCS9_PSD

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Test_Graph_802.11ax20_ANT2_5180_MCS0_PSD

Test_Graph_802.11ax20_ANT2_5200_MCS0_PSD

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Test_Graph_802.11ax20_ANT2_5240_MCS0_PSD

Test_Graph_802.11ax40_ANT2_5190_MCS0_PSD

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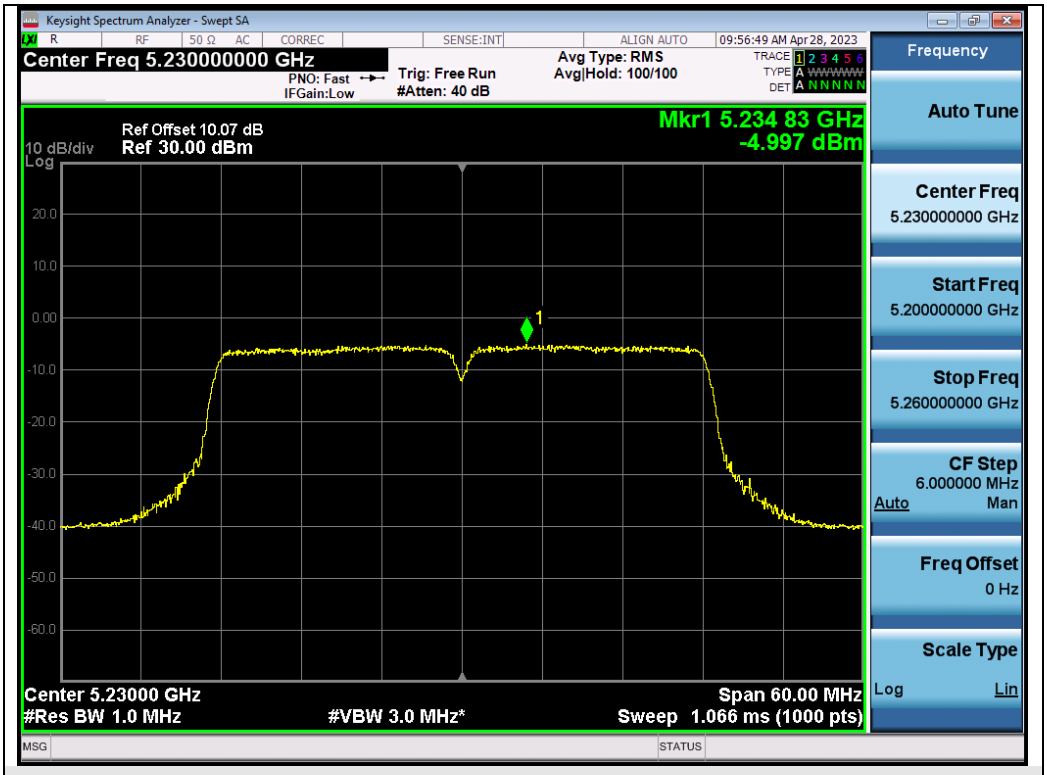

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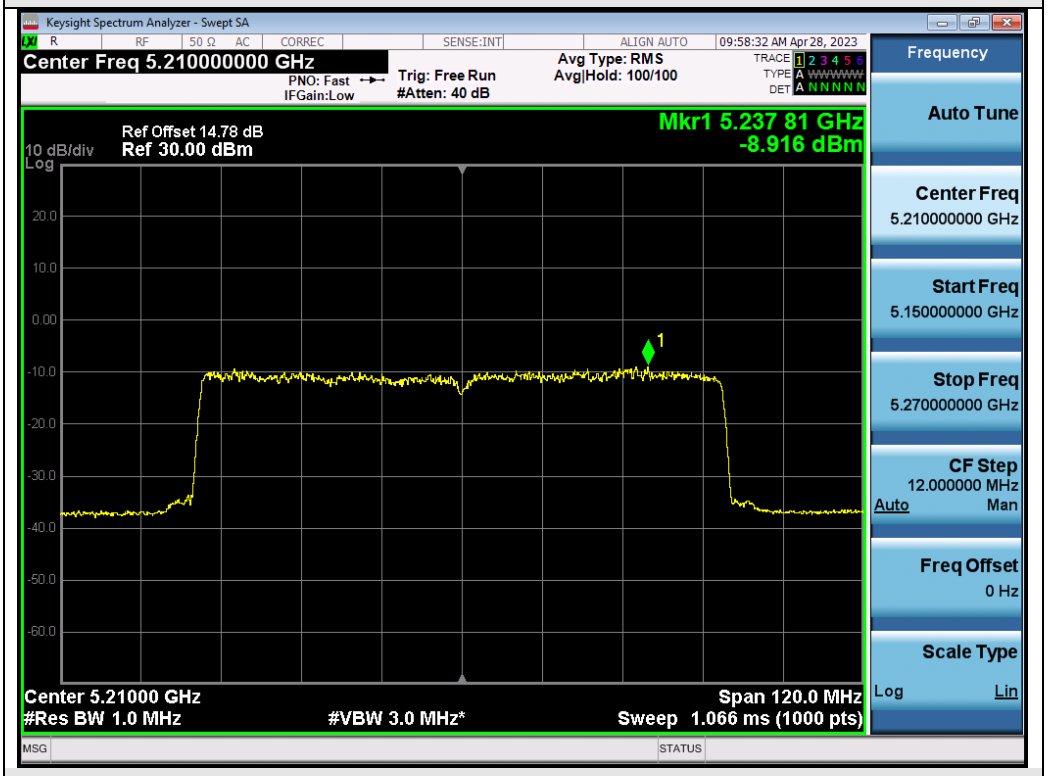

Test_Graph_802.11ax80_ANT2_5210_MCS0_PSD

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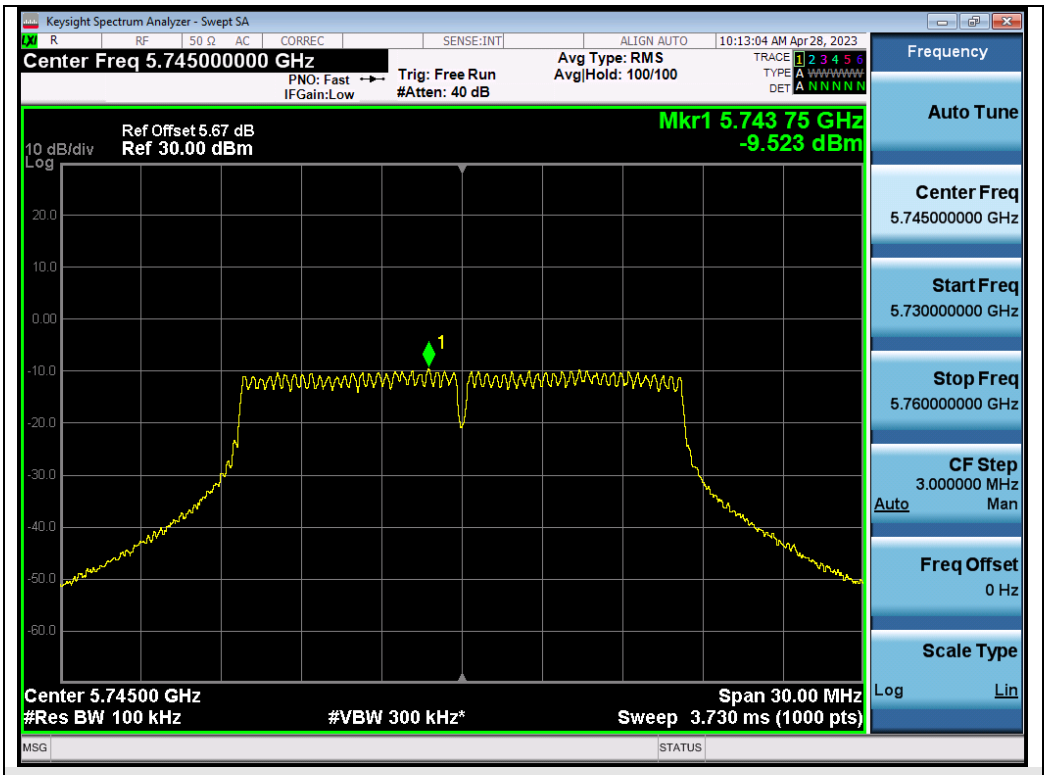
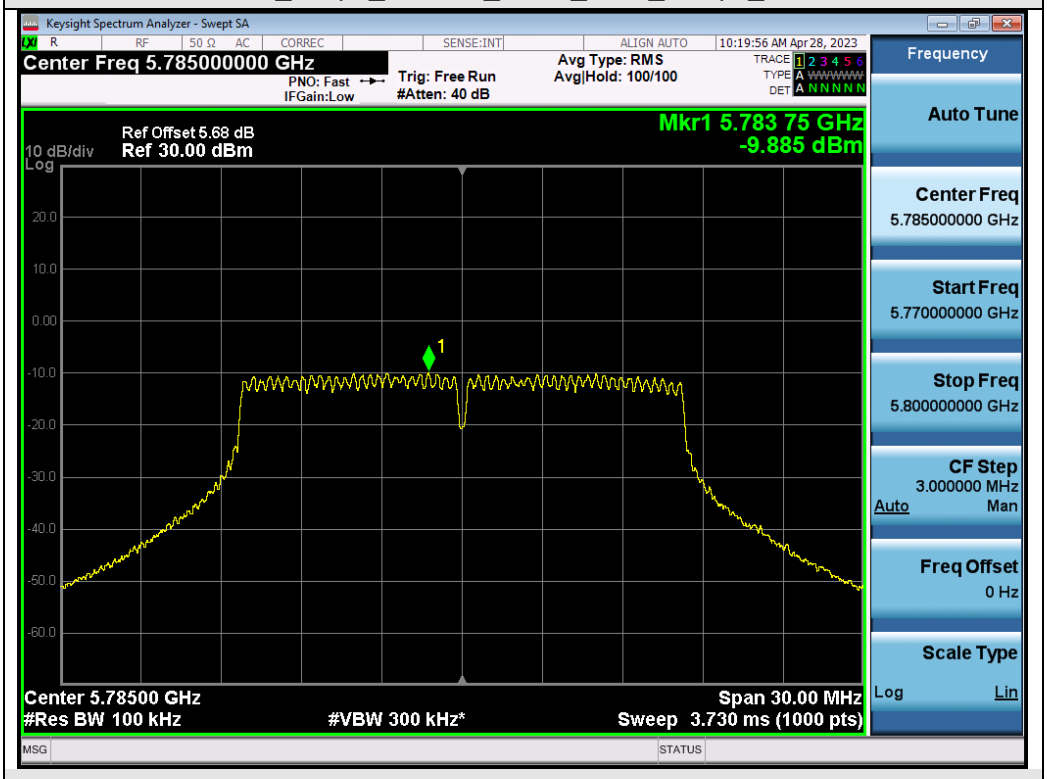
Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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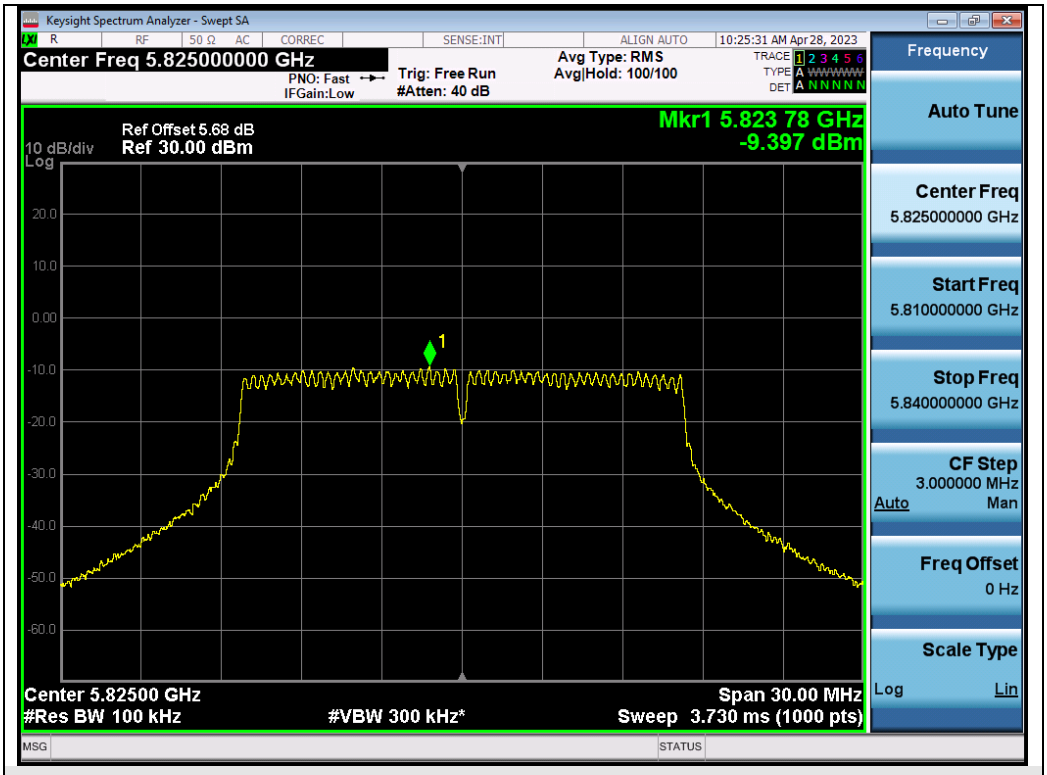

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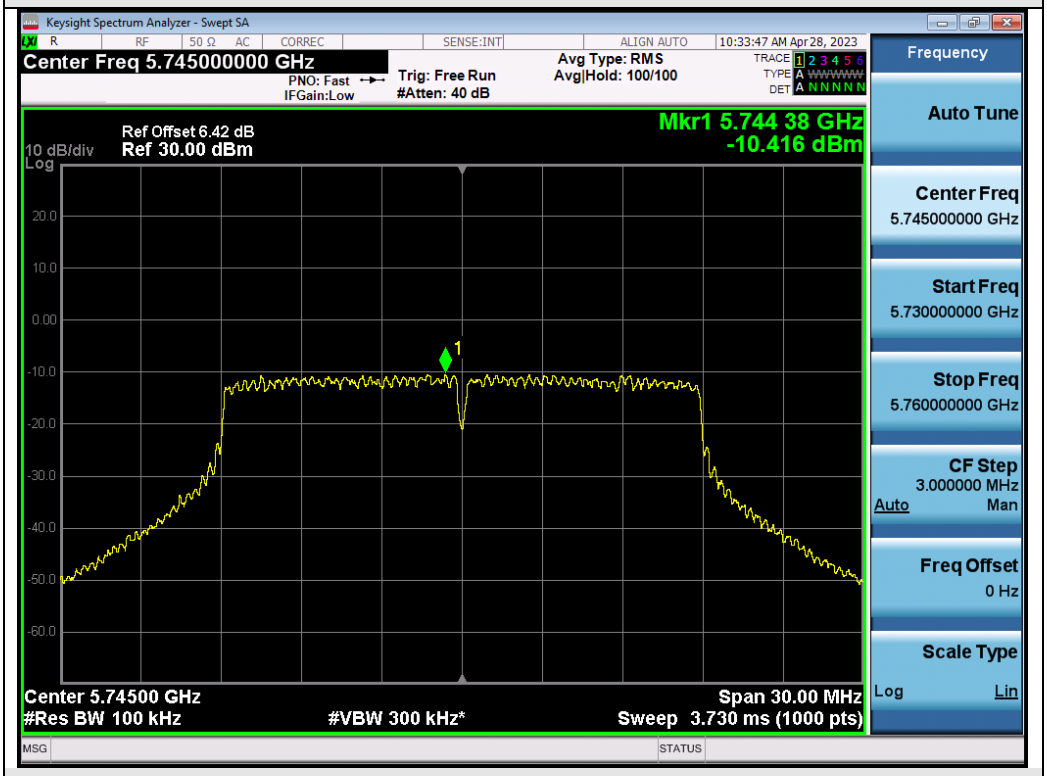

Test_Graph_802.11n20_ANT1_5745_MCS0_PSD

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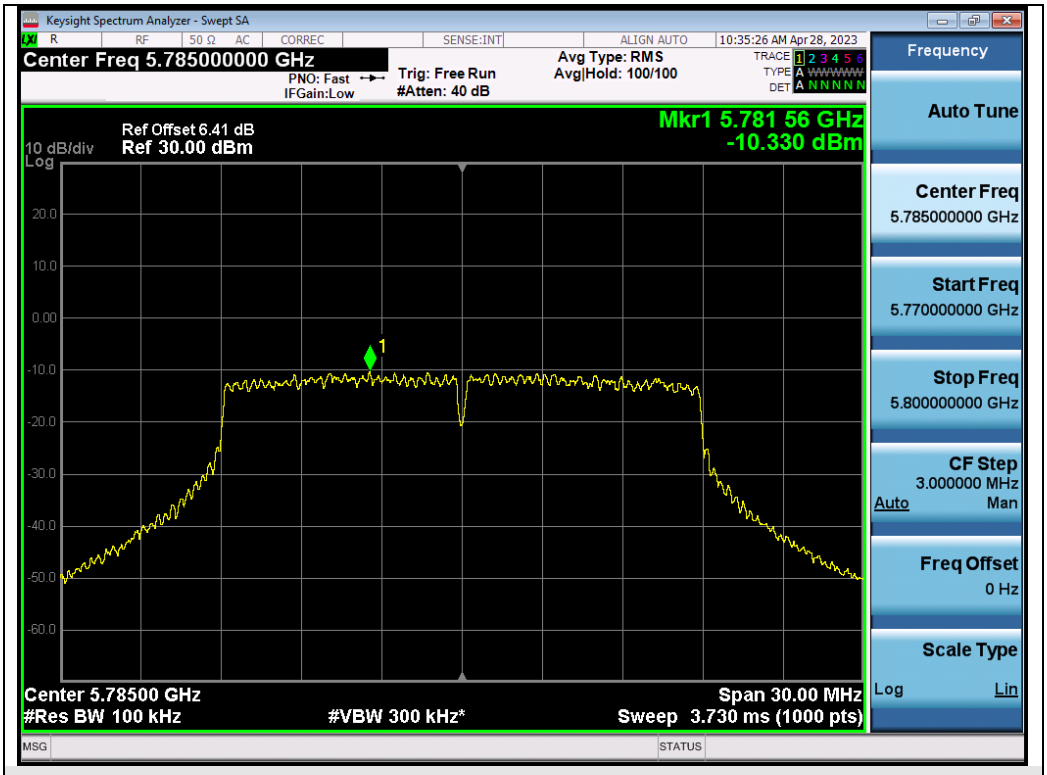

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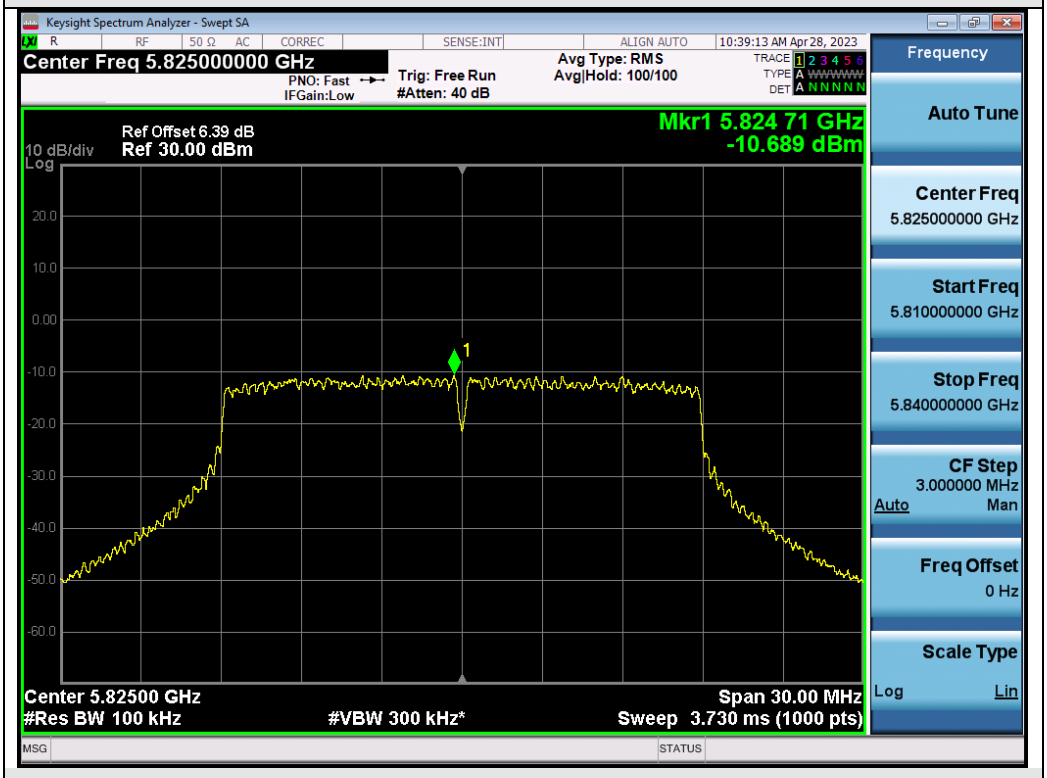

Test_Graph_802.11n20_ANT1_5825_MCS0_PSD

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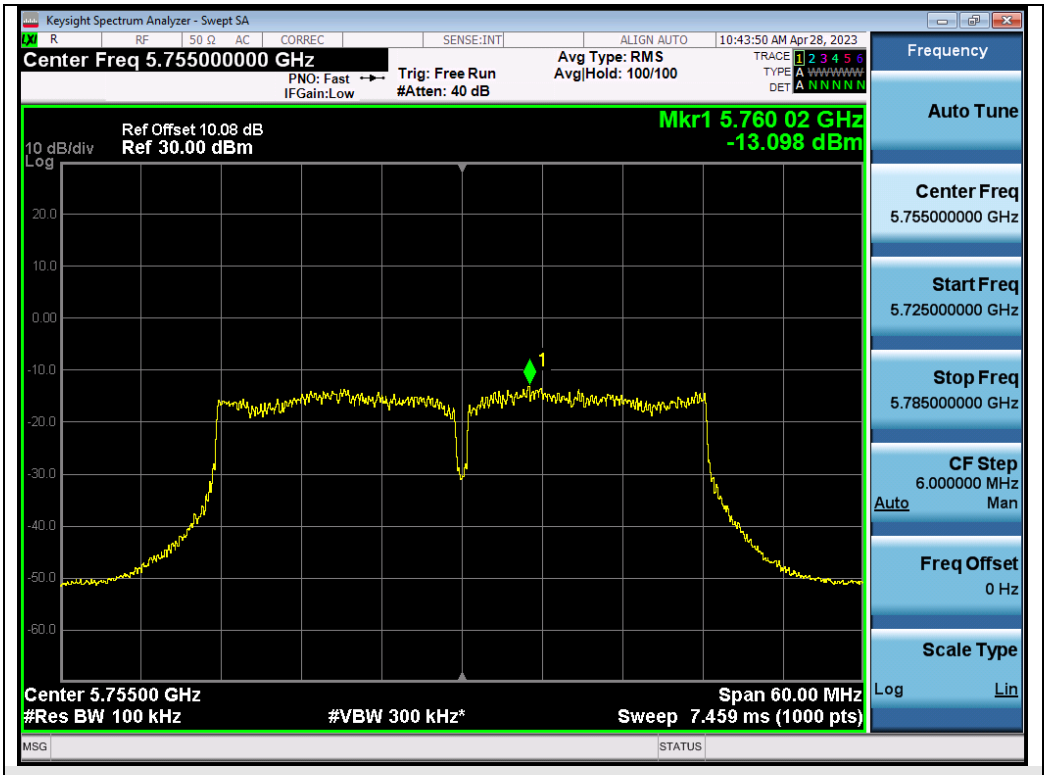
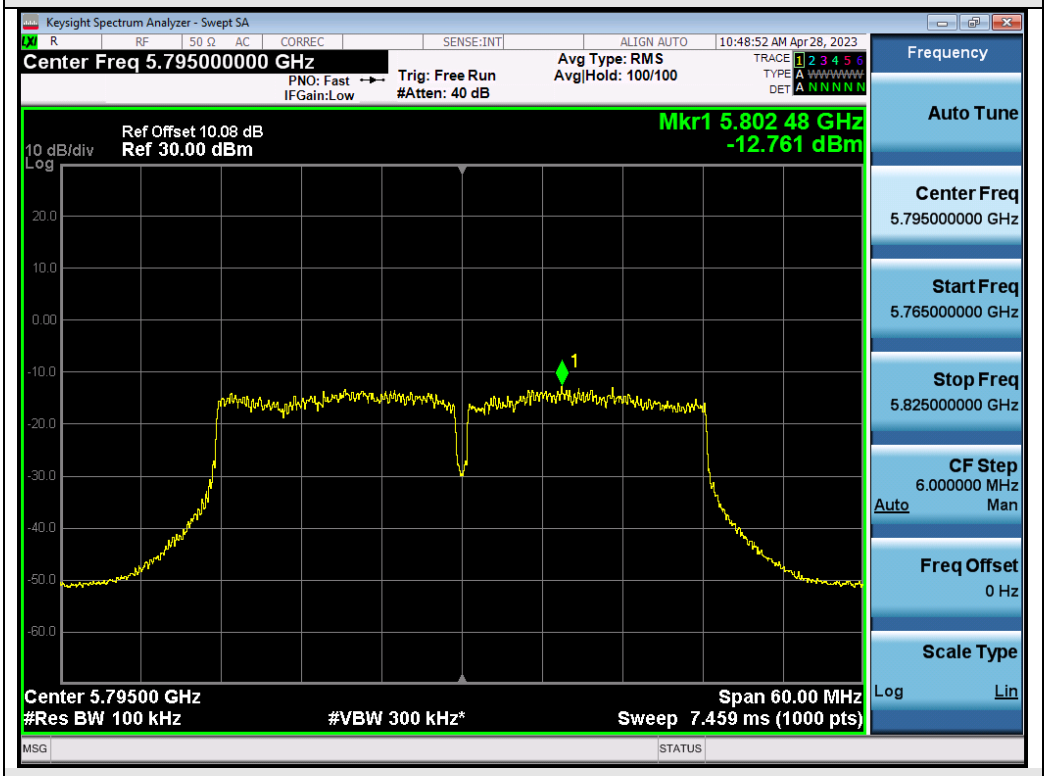


Test_Graph_802.11n40_ANT1_5755_MCS0_PSD



Test_Graph_802.11n40_ANT1_5795_MCS0_PSD

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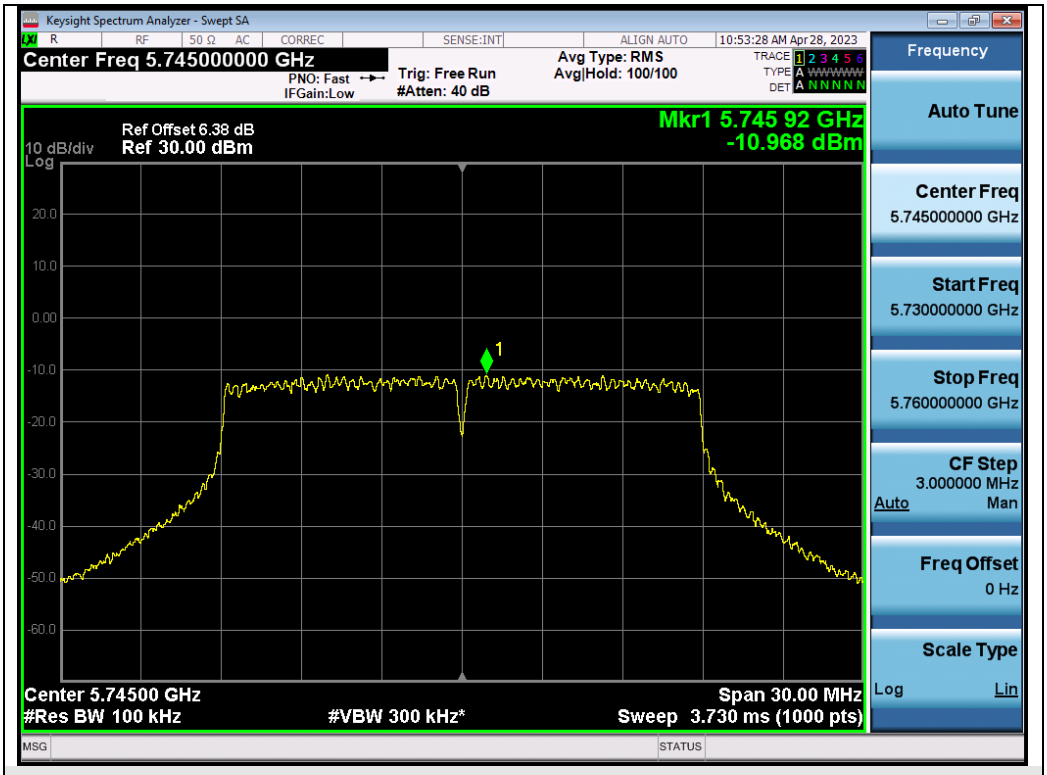

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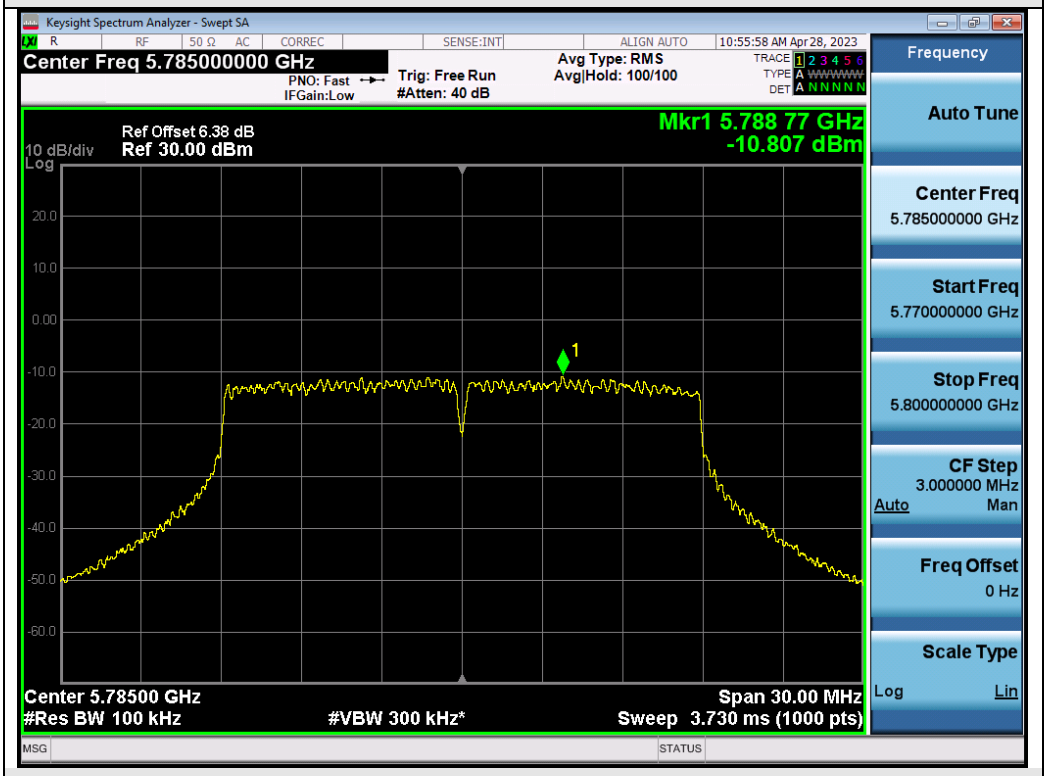

Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

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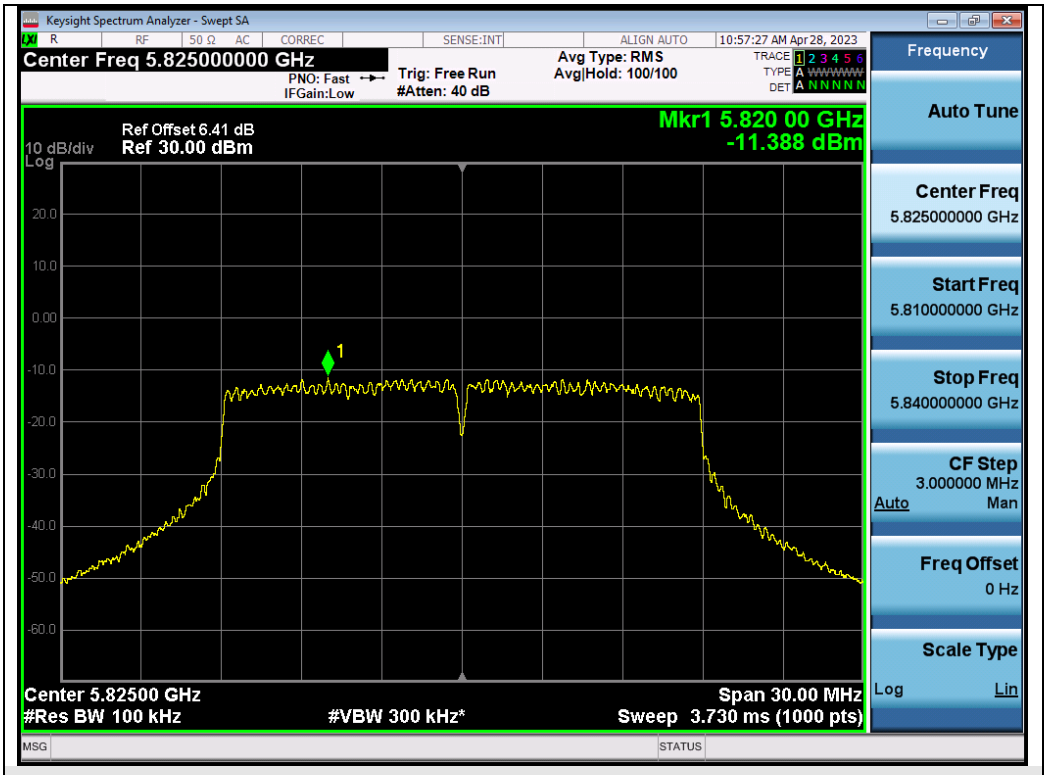
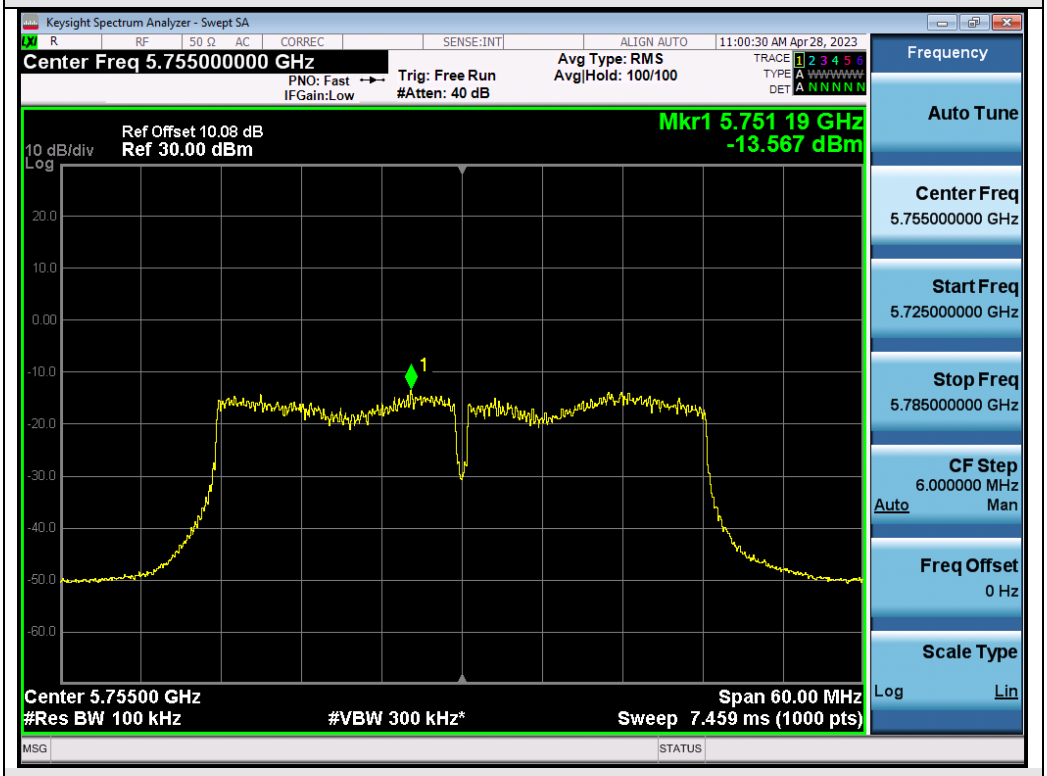


Test_Graph_802.11ac20_ANT1_5825_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD

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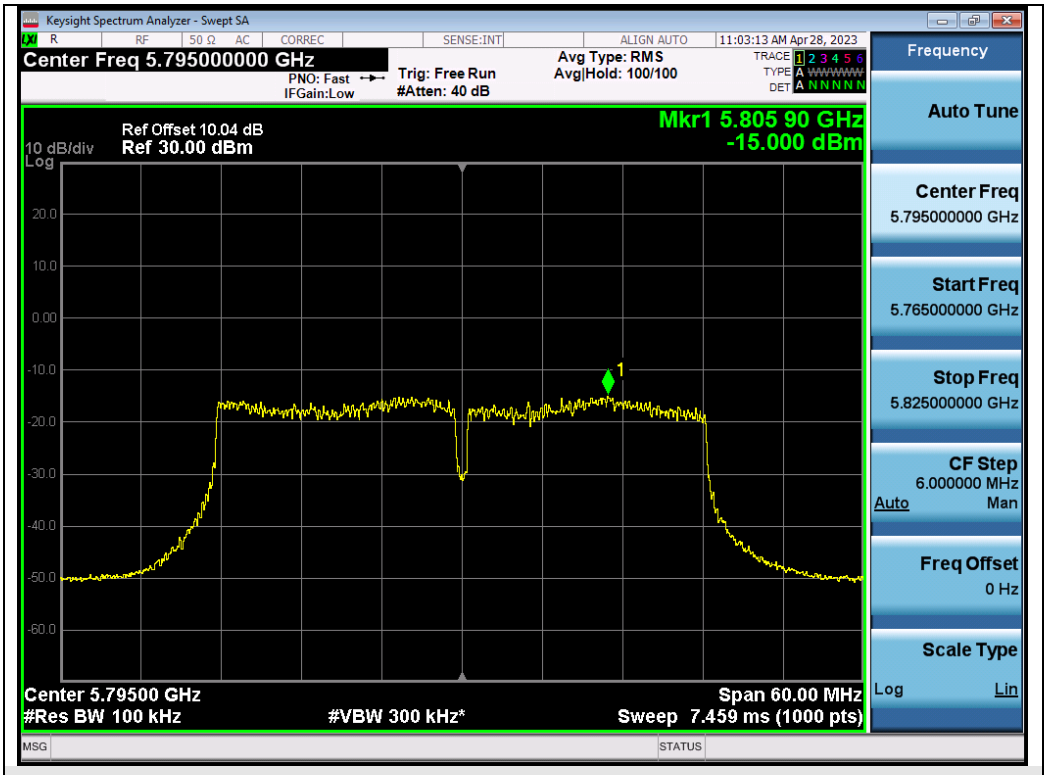

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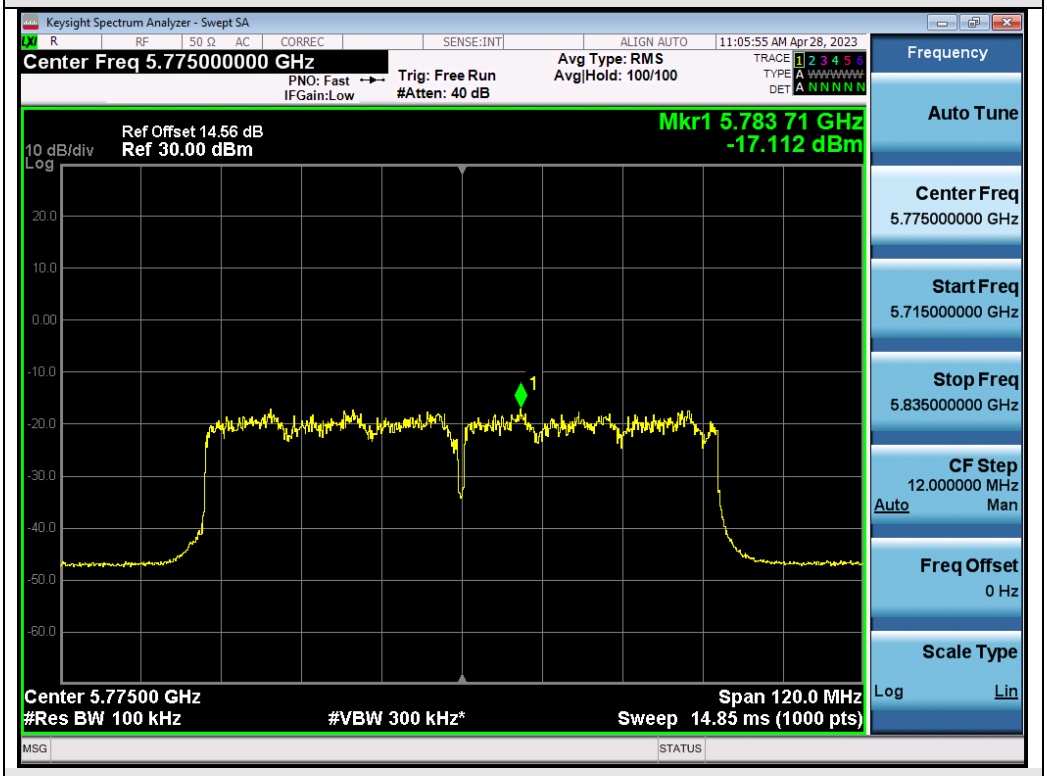

Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD

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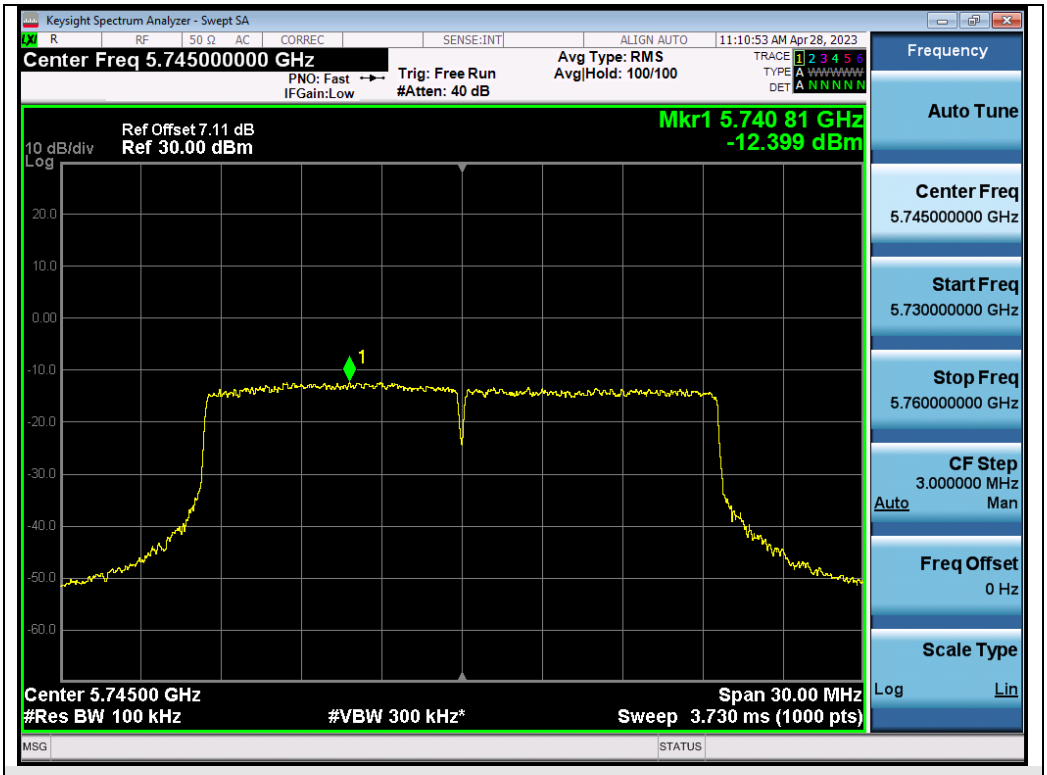

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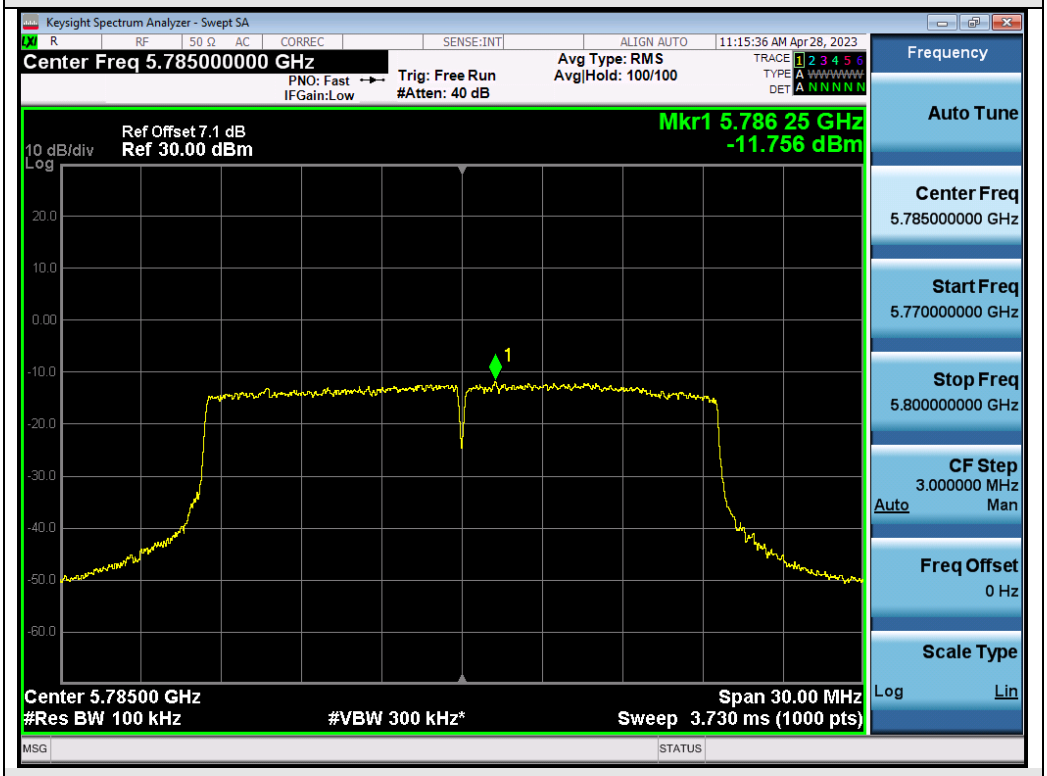

Test_Graph_802.11ax20_ANT1_5785_MCS0_PSD

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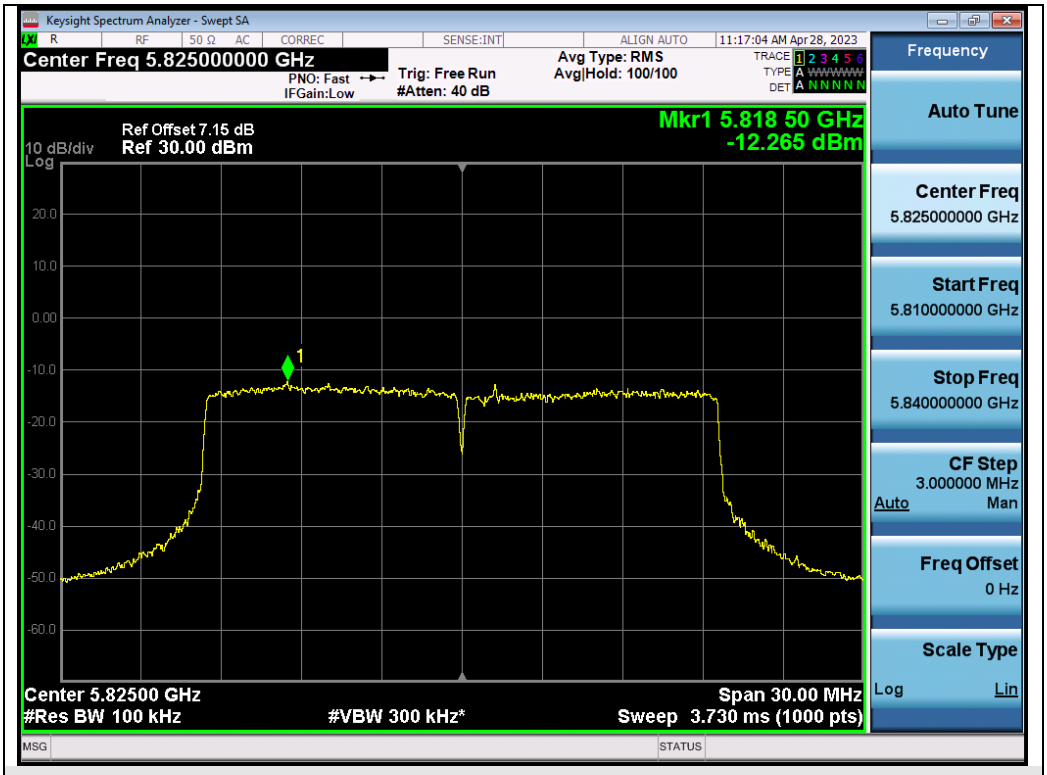

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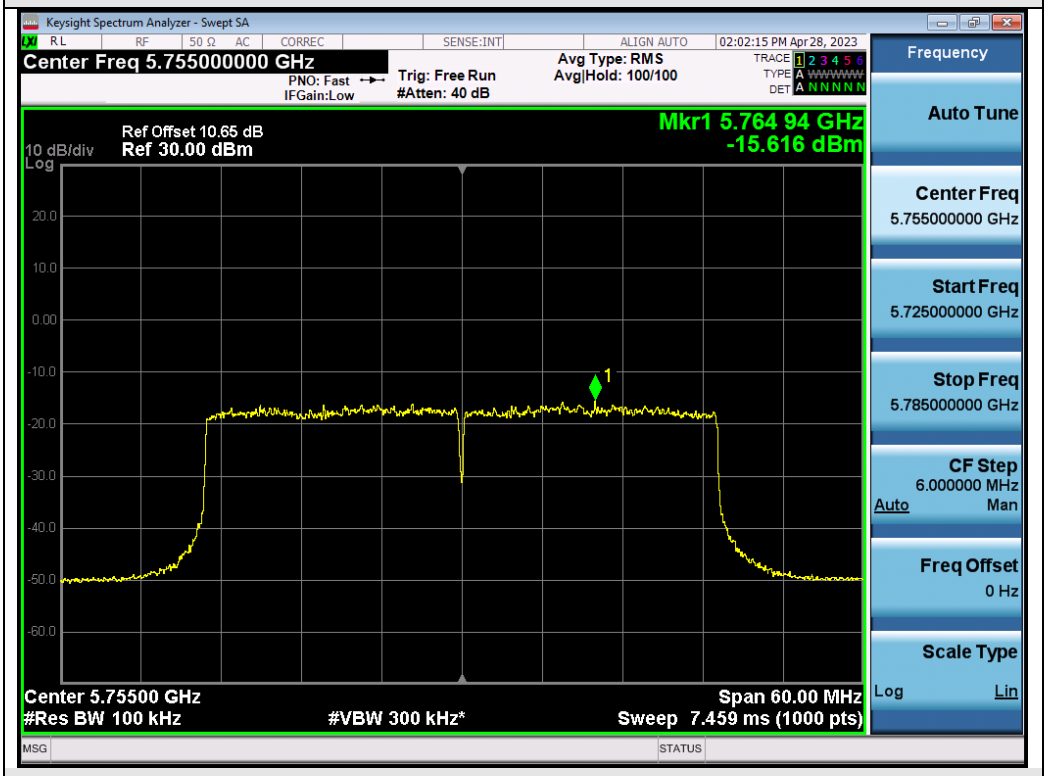

Test_Graph_802.11ax40_ANT1_5755_MCS0_PSD

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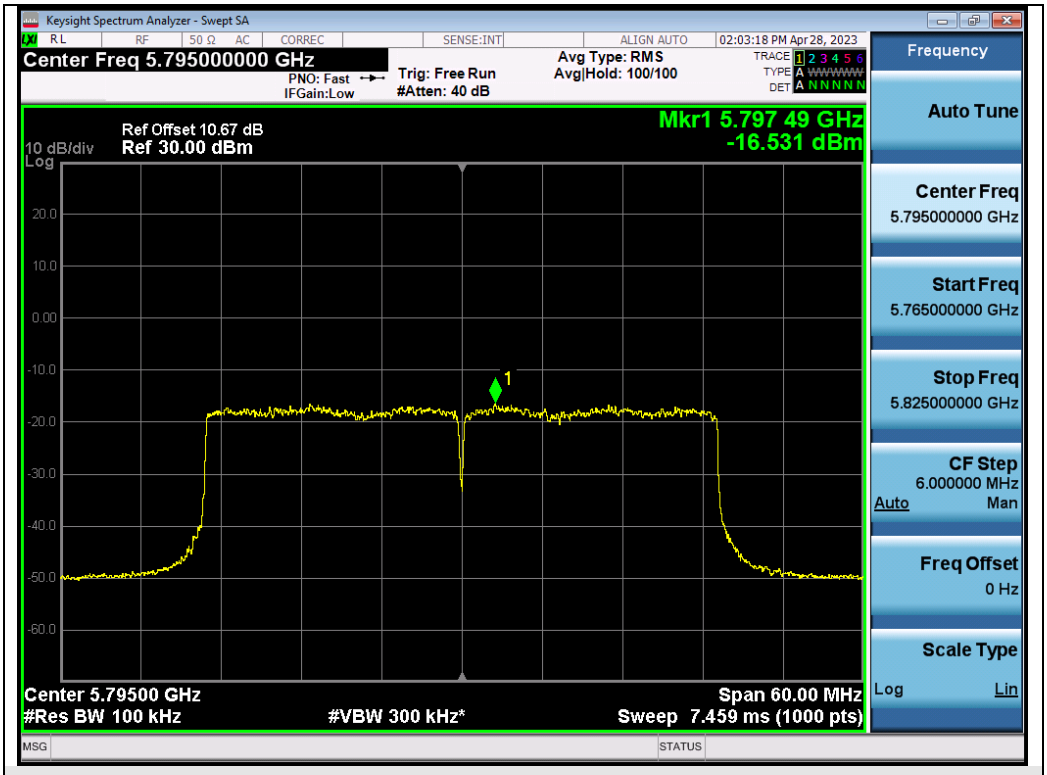
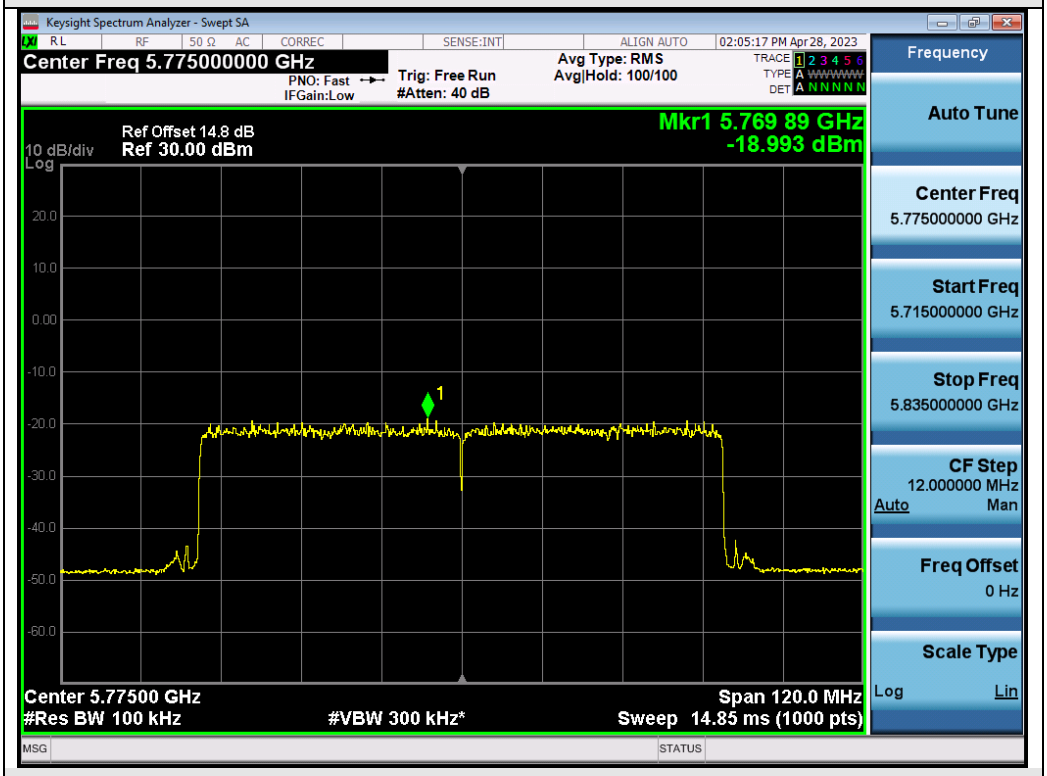


Test_Graph_802.11ax40_ANT1_5795_MCS0_PSD



Test_Graph_802.11ax80_ANT1_5775_MCS0_PSD

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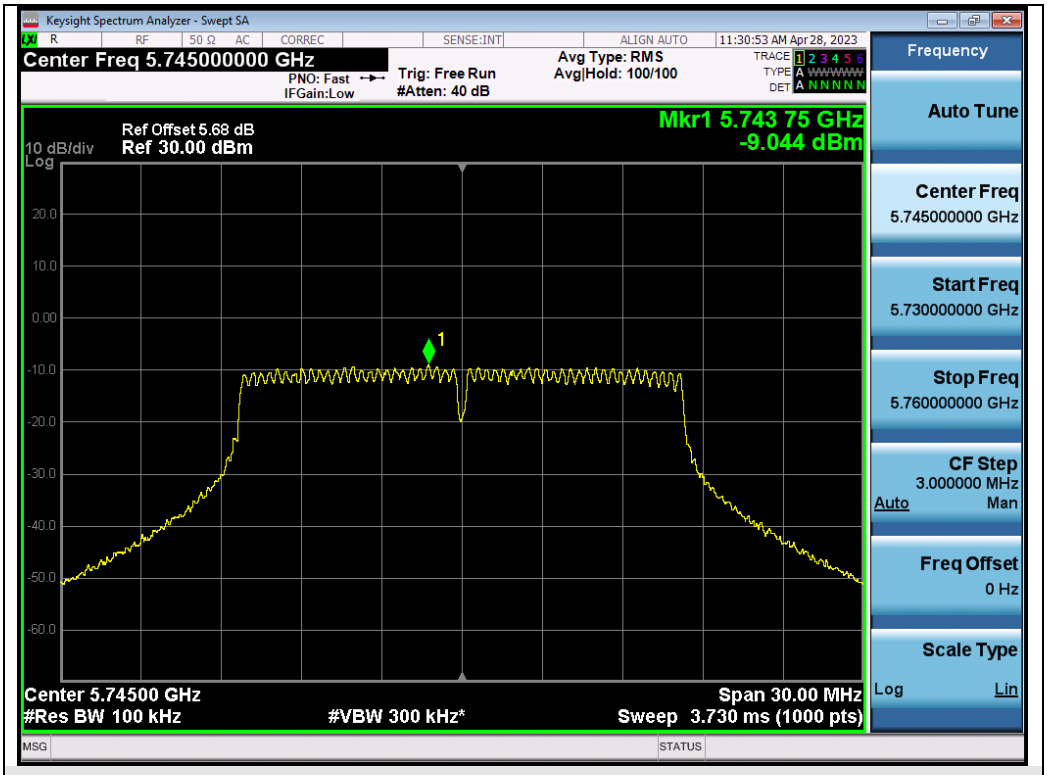
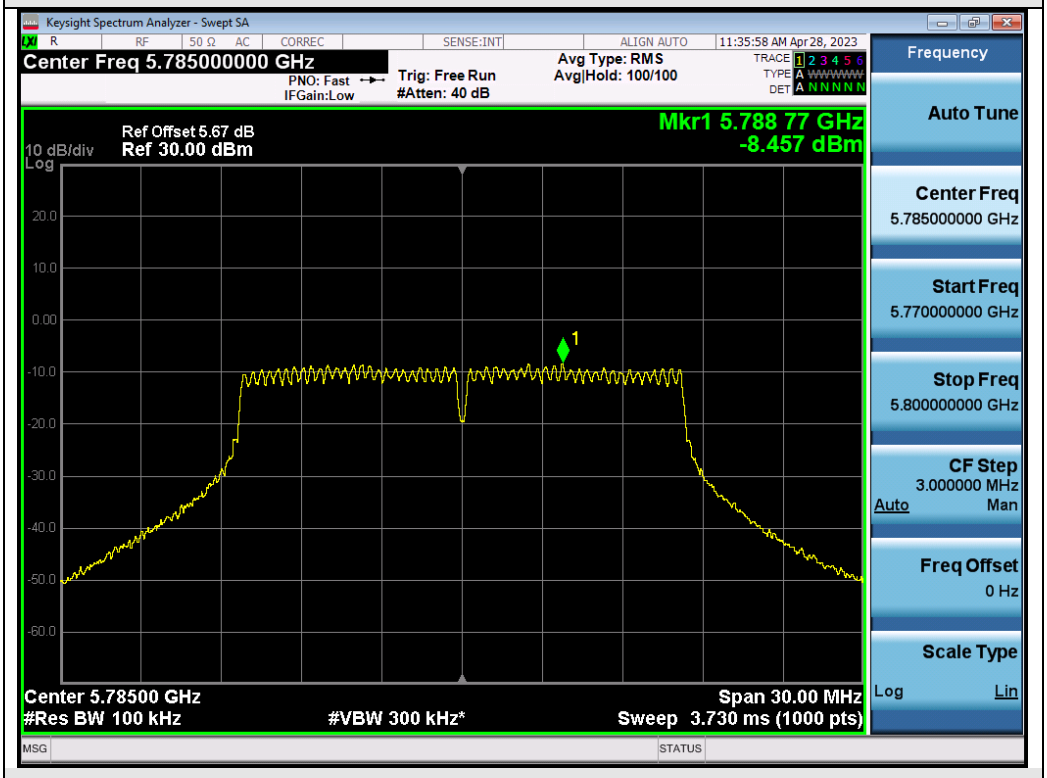


Test_Graph_802.11a_ANT2_5745_6Mbps_PSD



Test_Graph_802.11a_ANT2_5785_6Mbps_PSD

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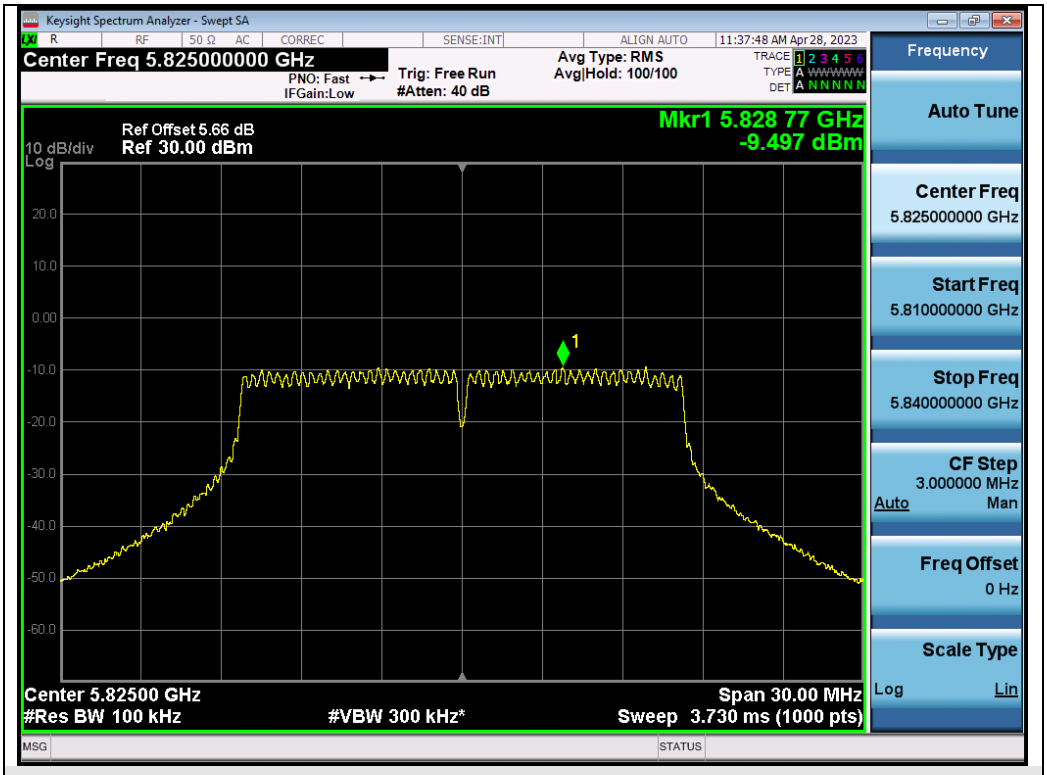

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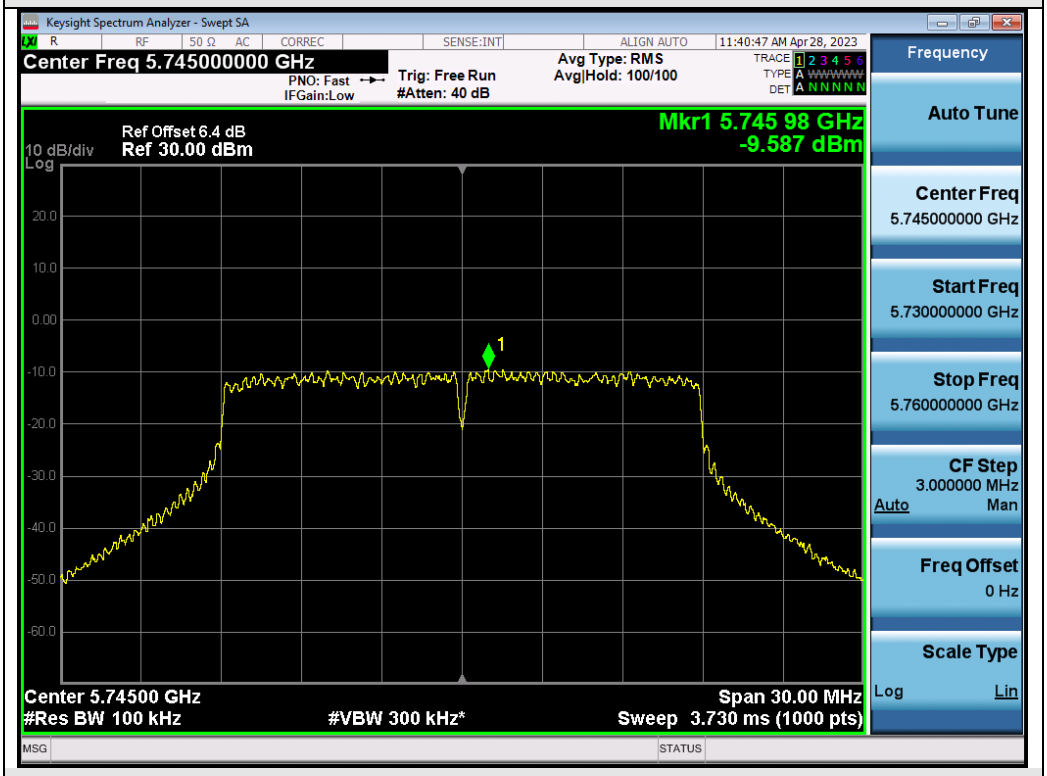

Test_Graph_802.11n20_ANT2_5745_MCS0_PSD

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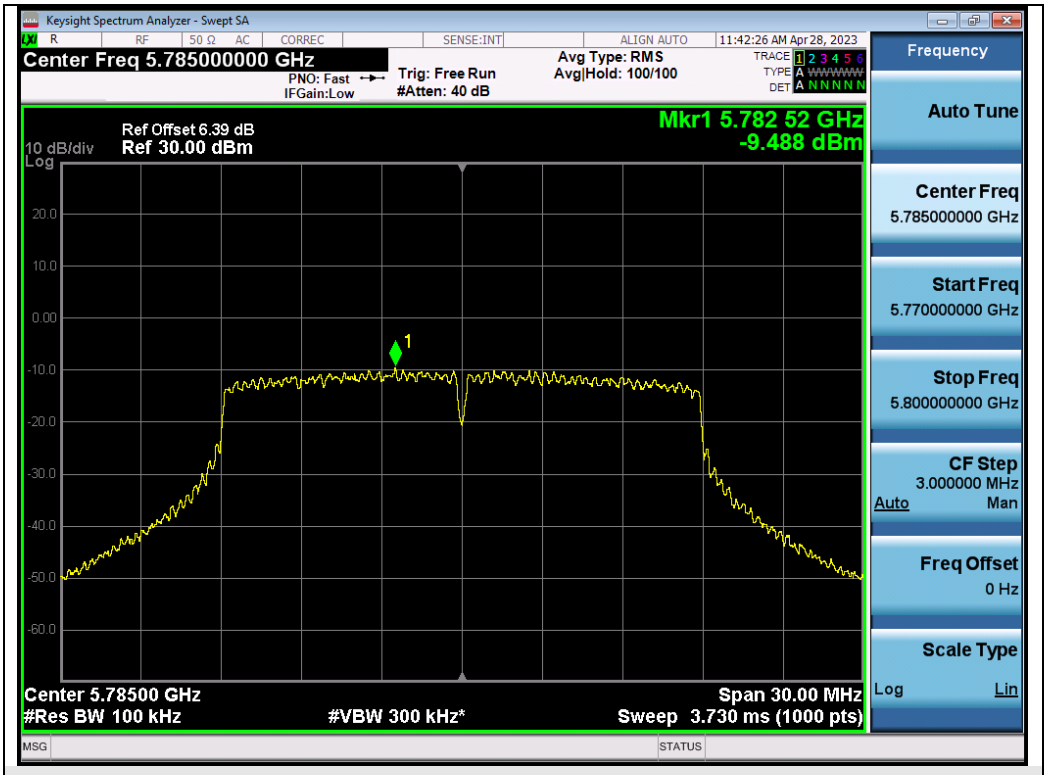
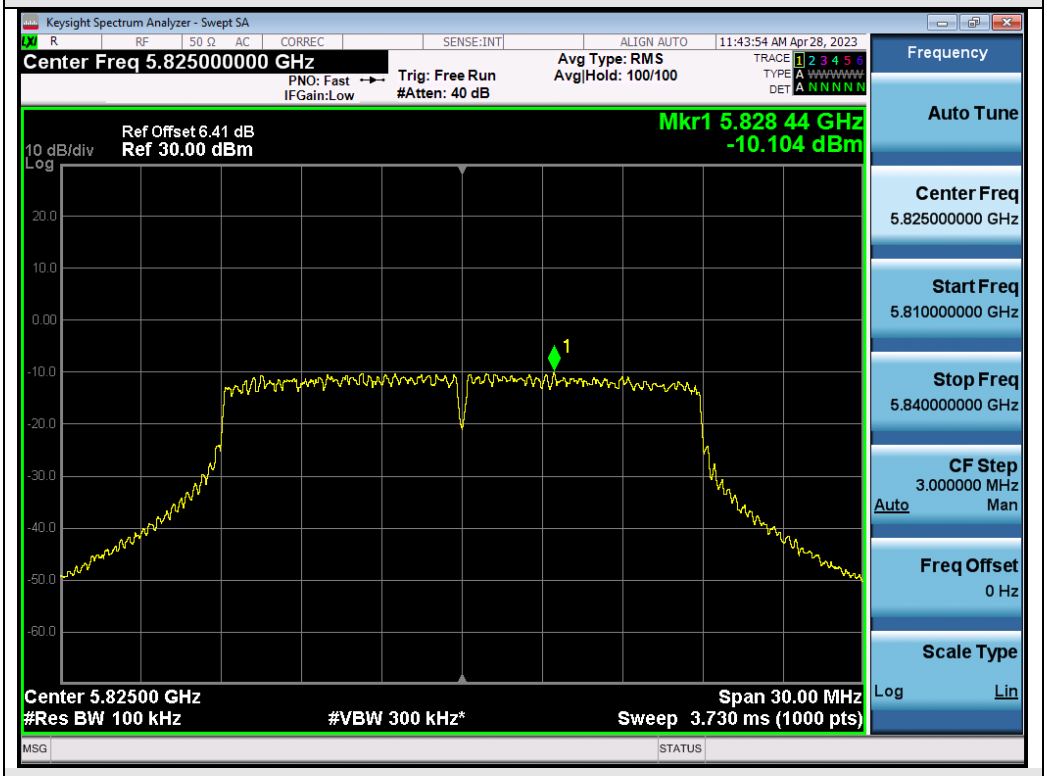


Test_Graph_802.11n20_ANT2_5785_MCS0_PSD



Test_Graph_802.11n20_ANT2_5825_MCS0_PSD

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