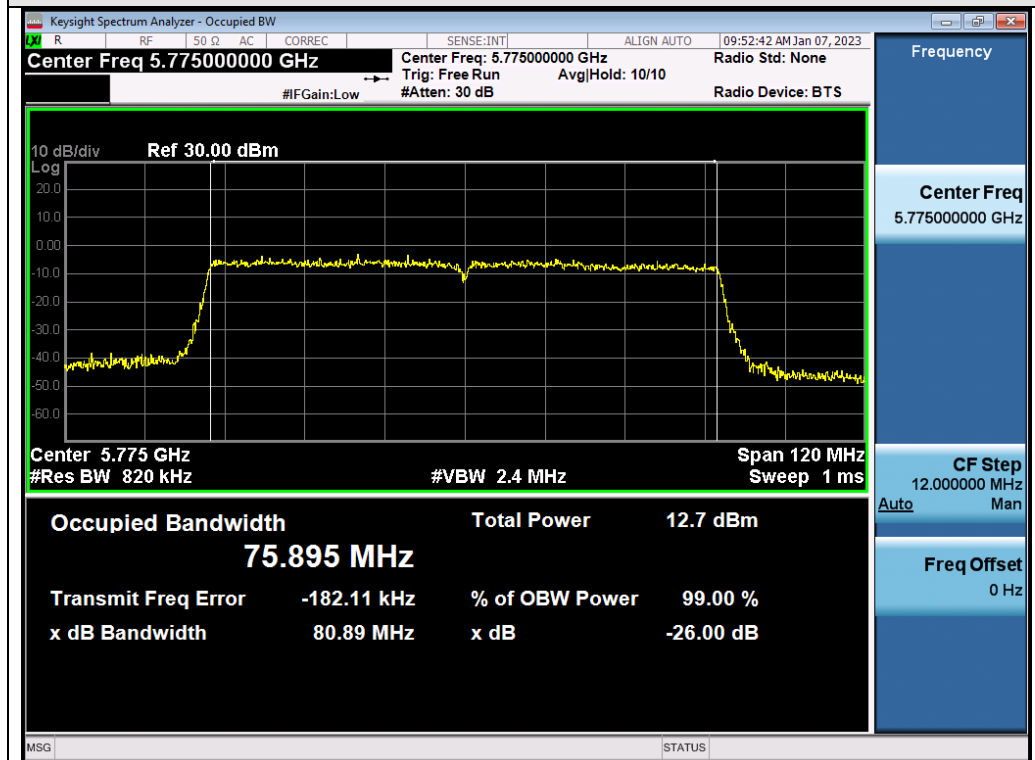
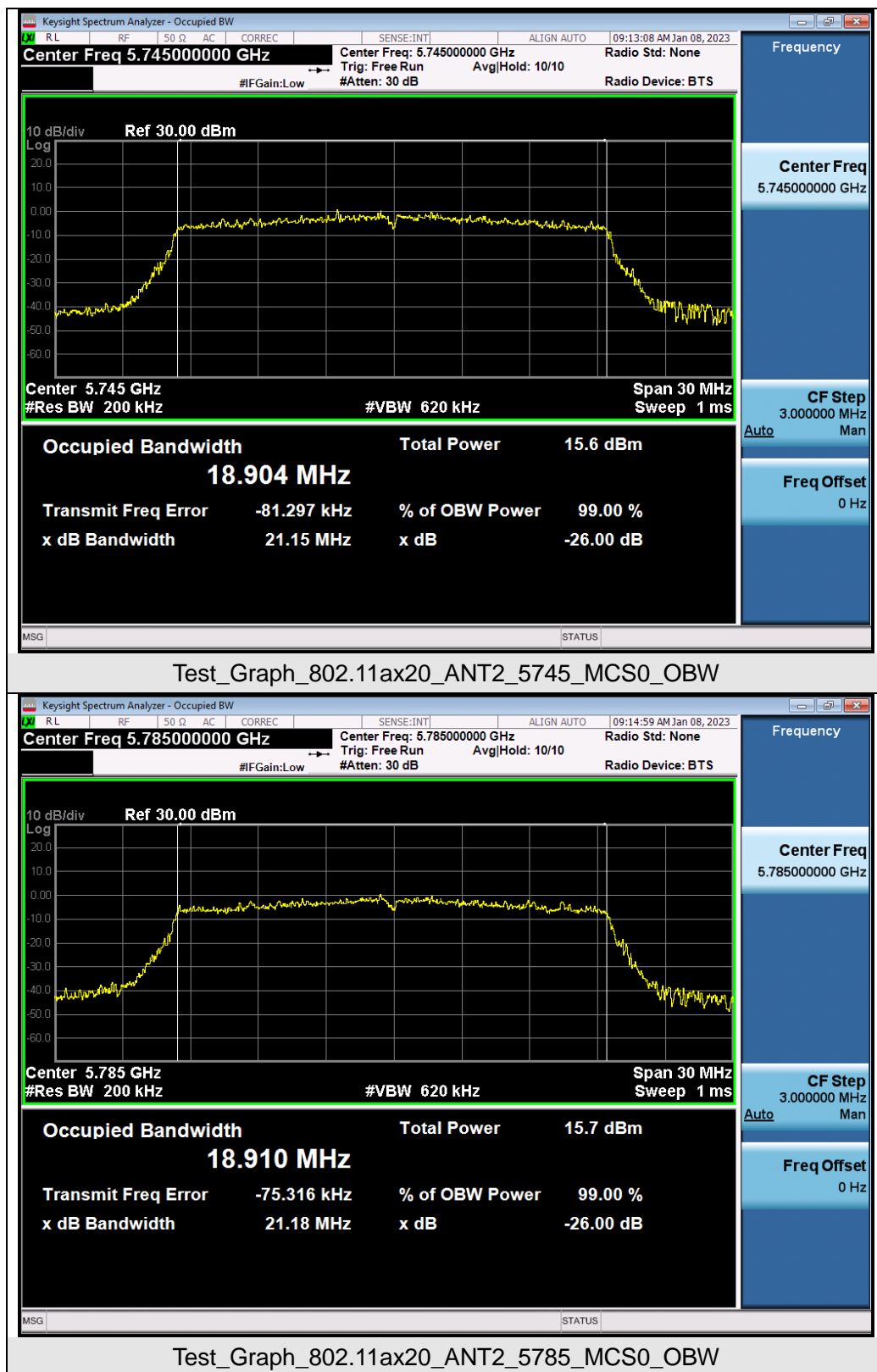


Test_Graph_802.11ac40_ANT2_5795_MCS9_OBW

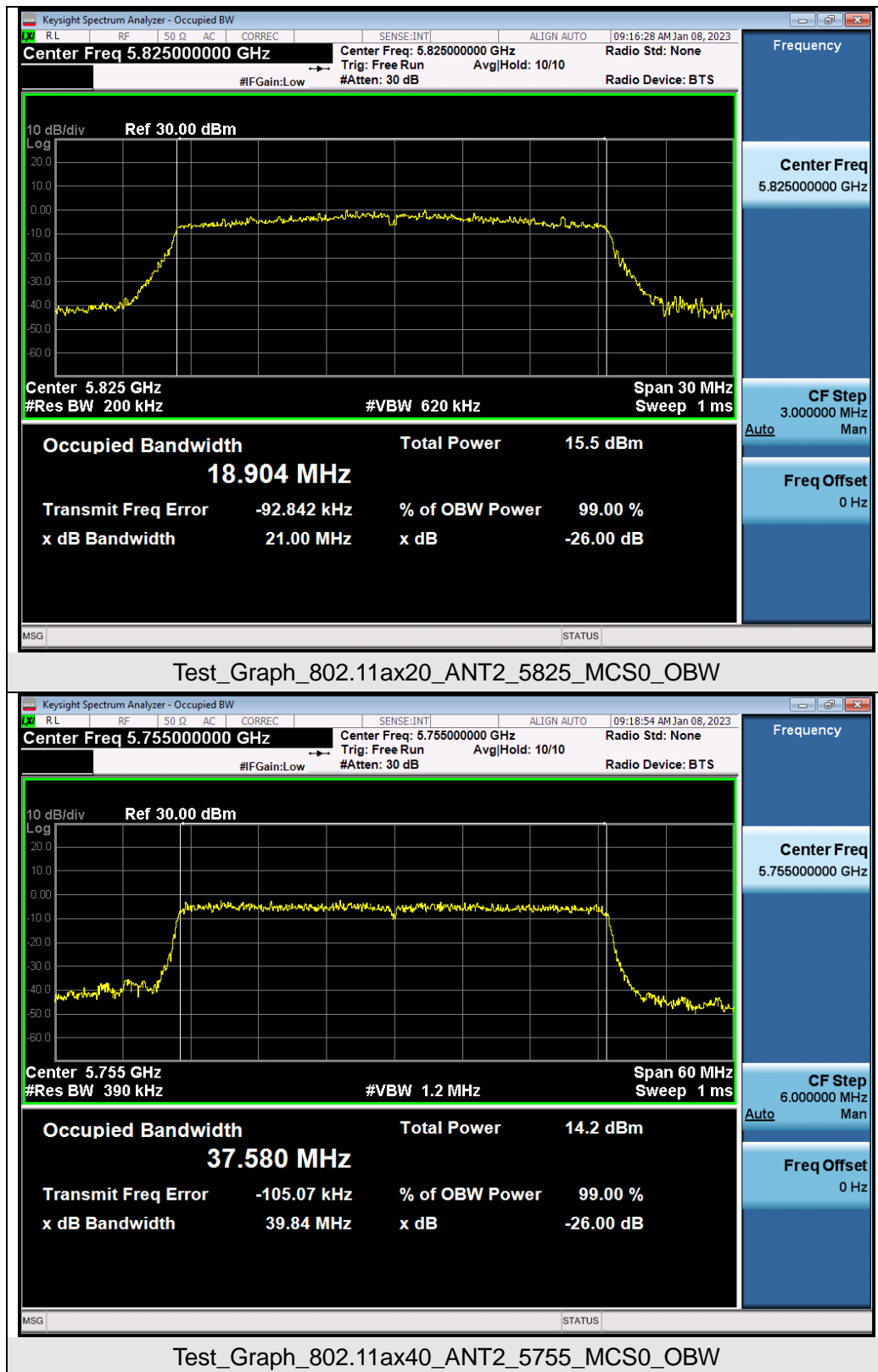


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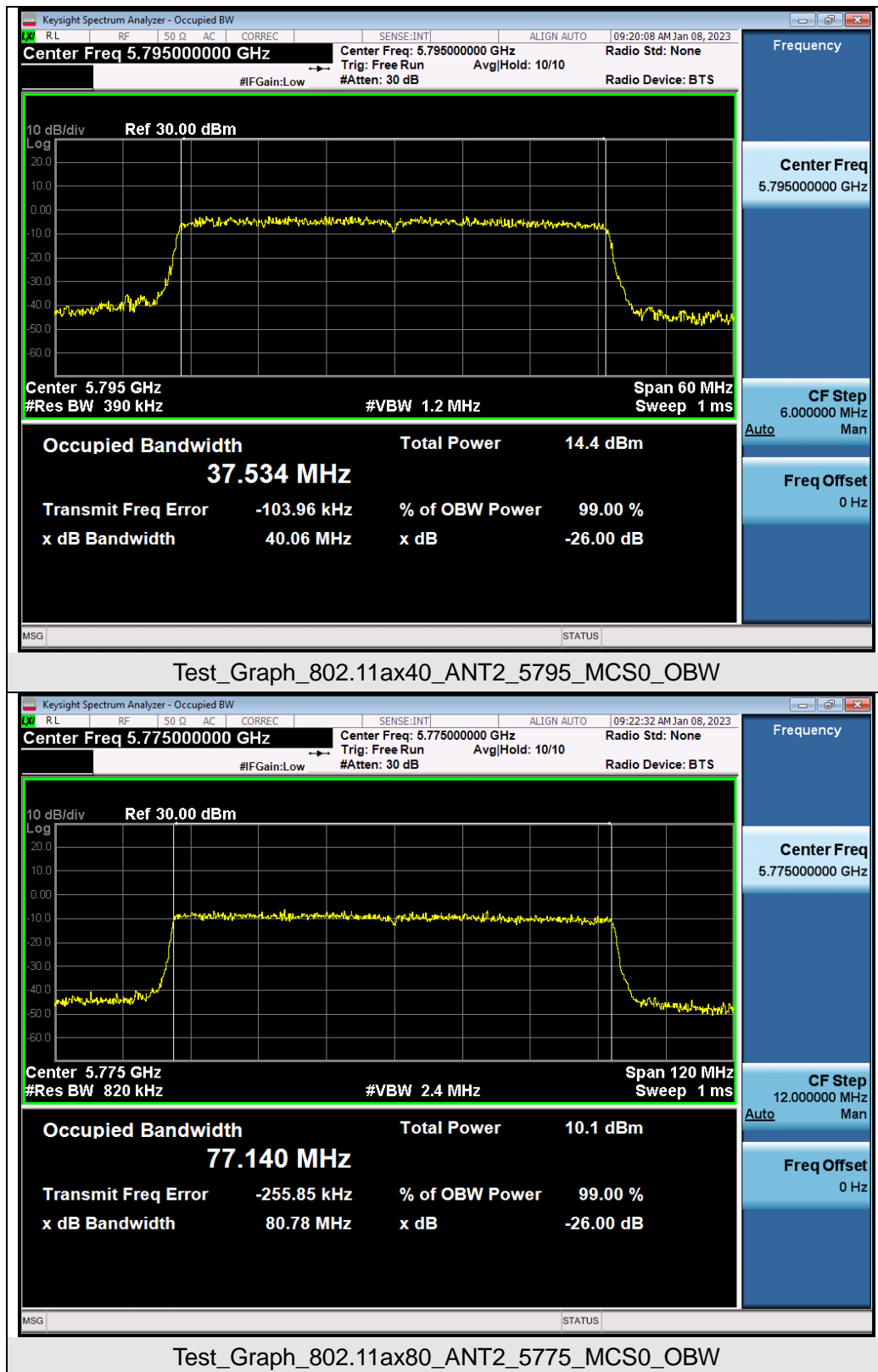
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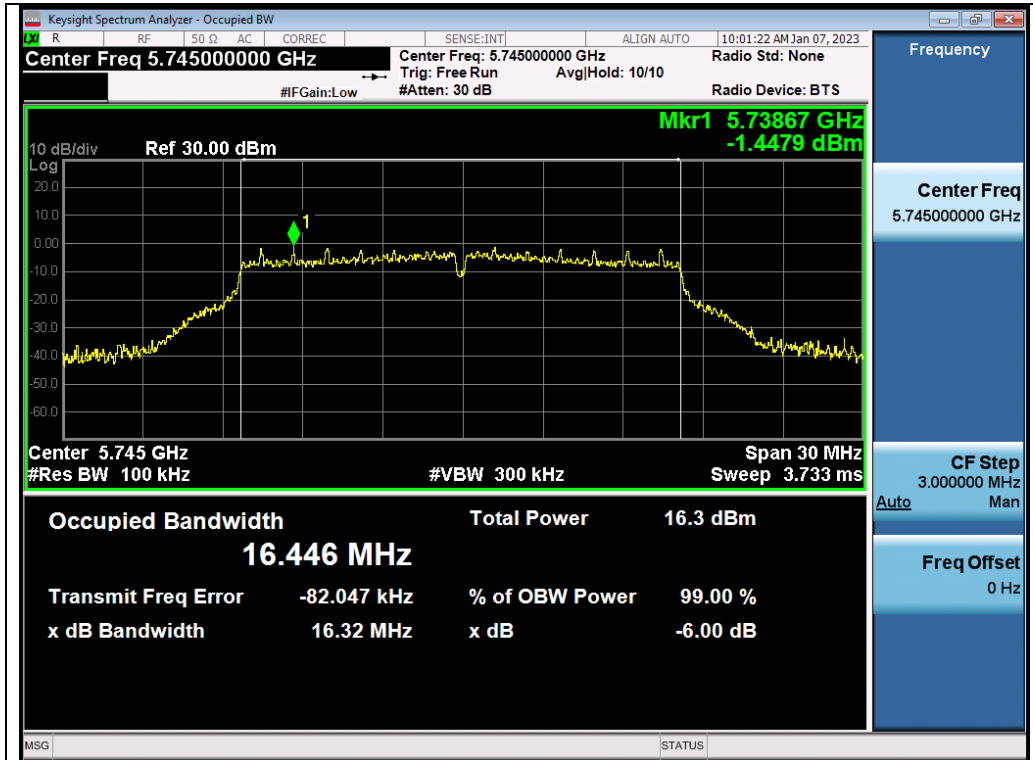


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

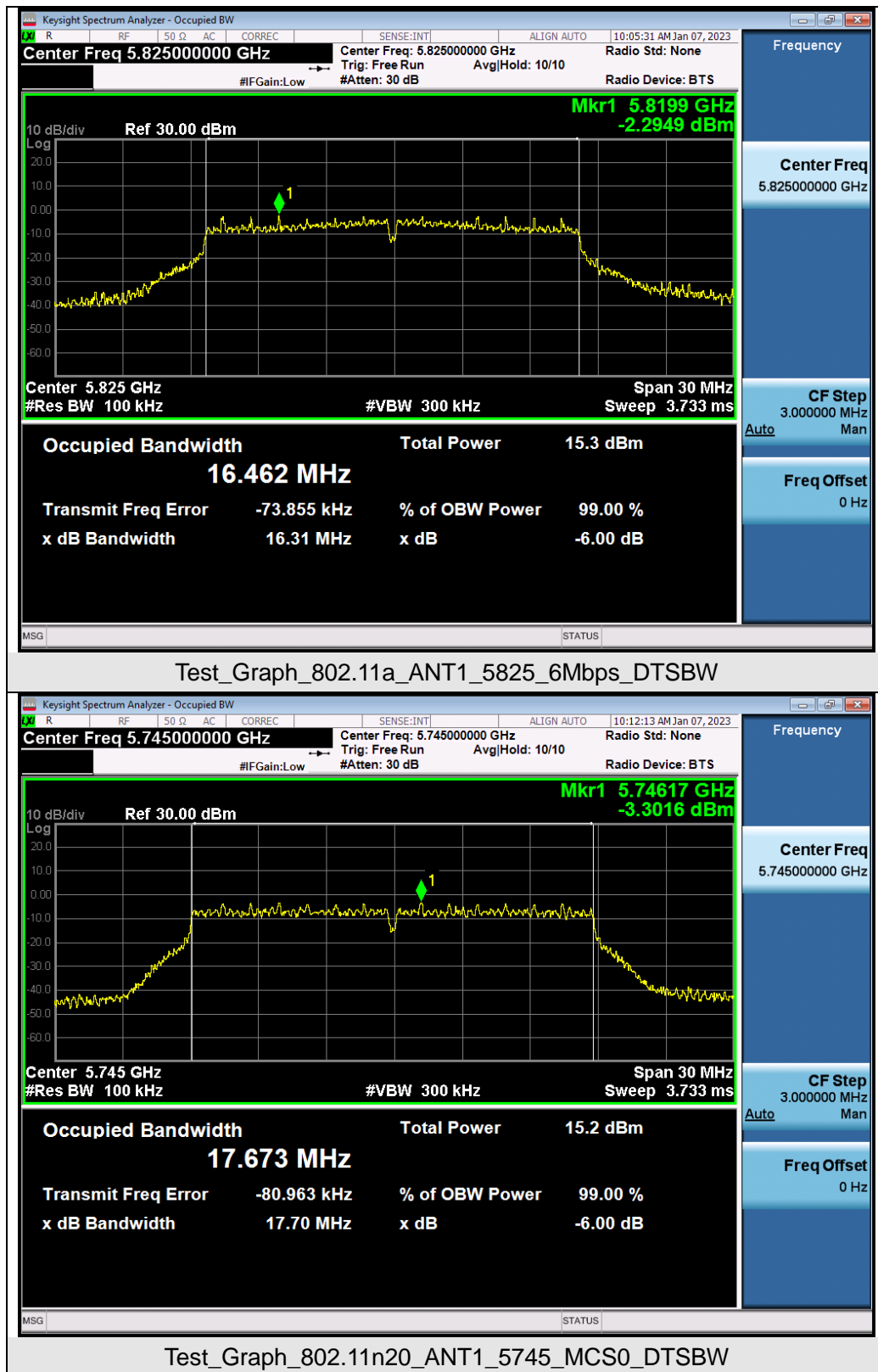


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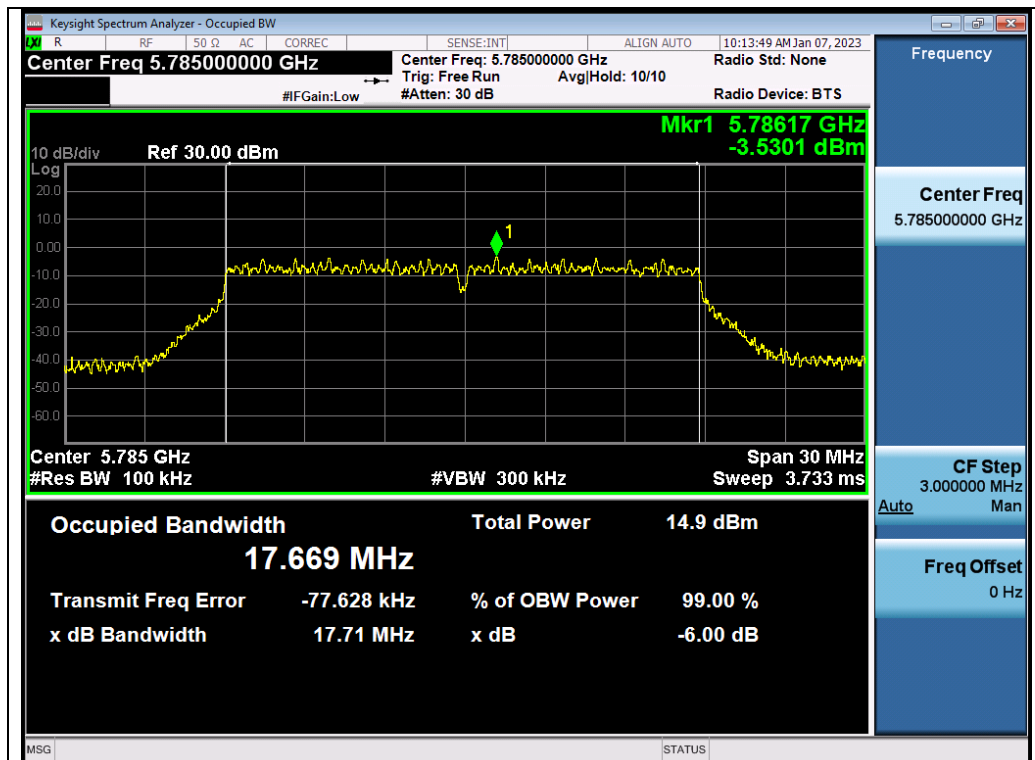


Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

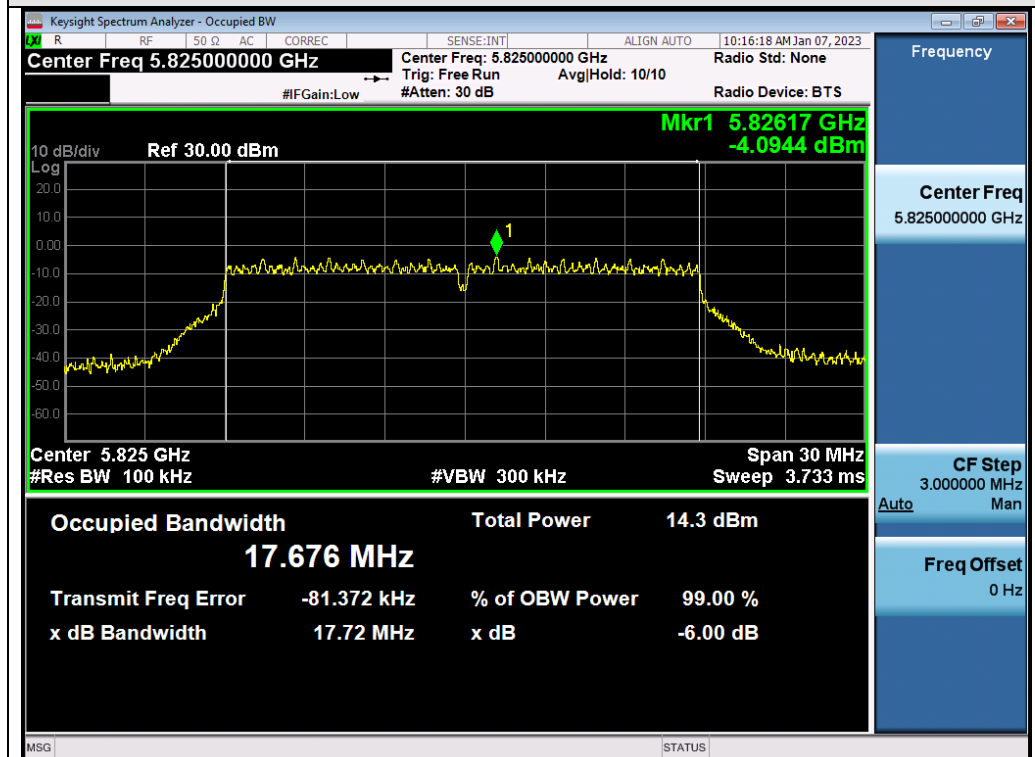
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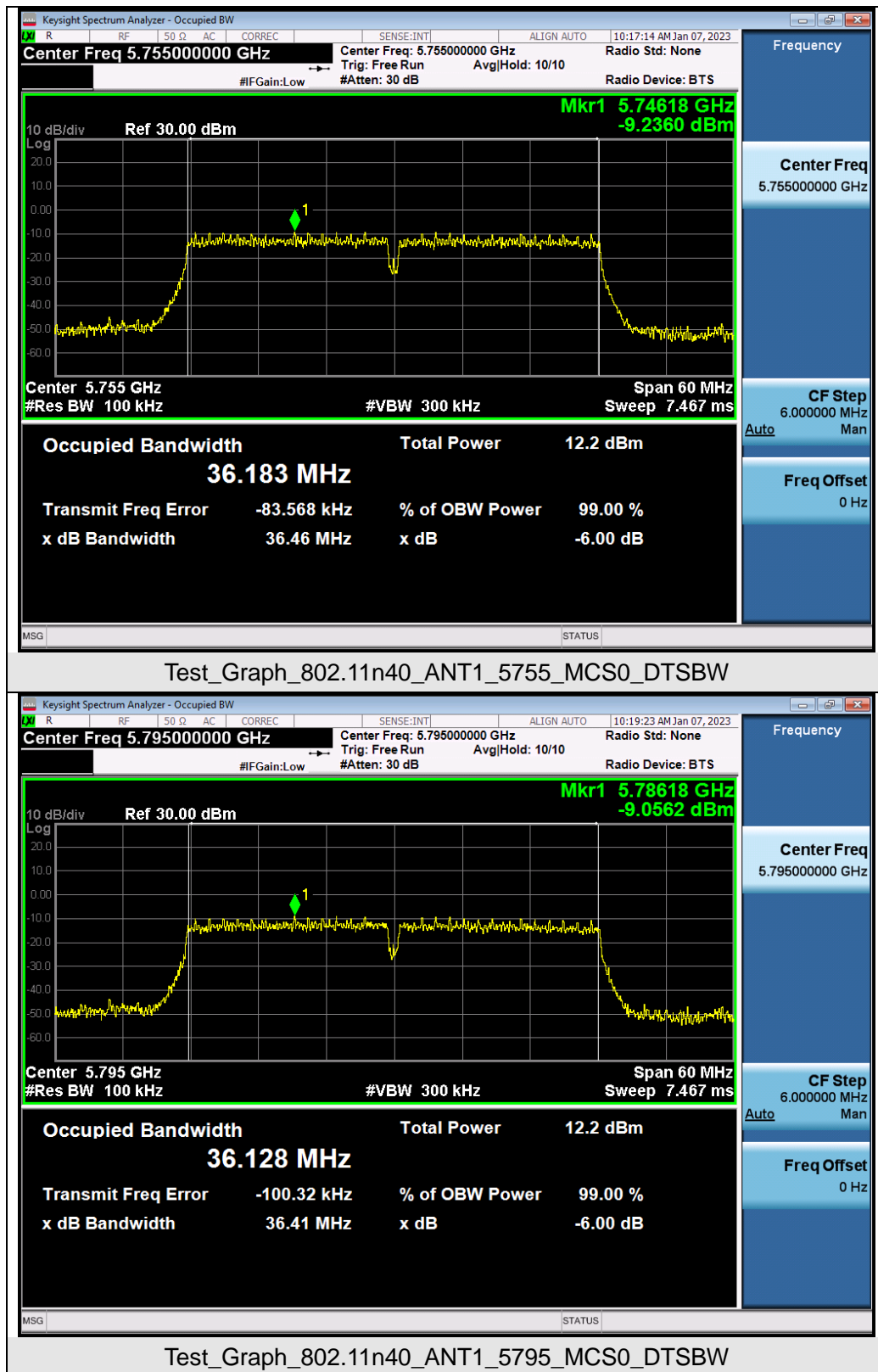


Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW



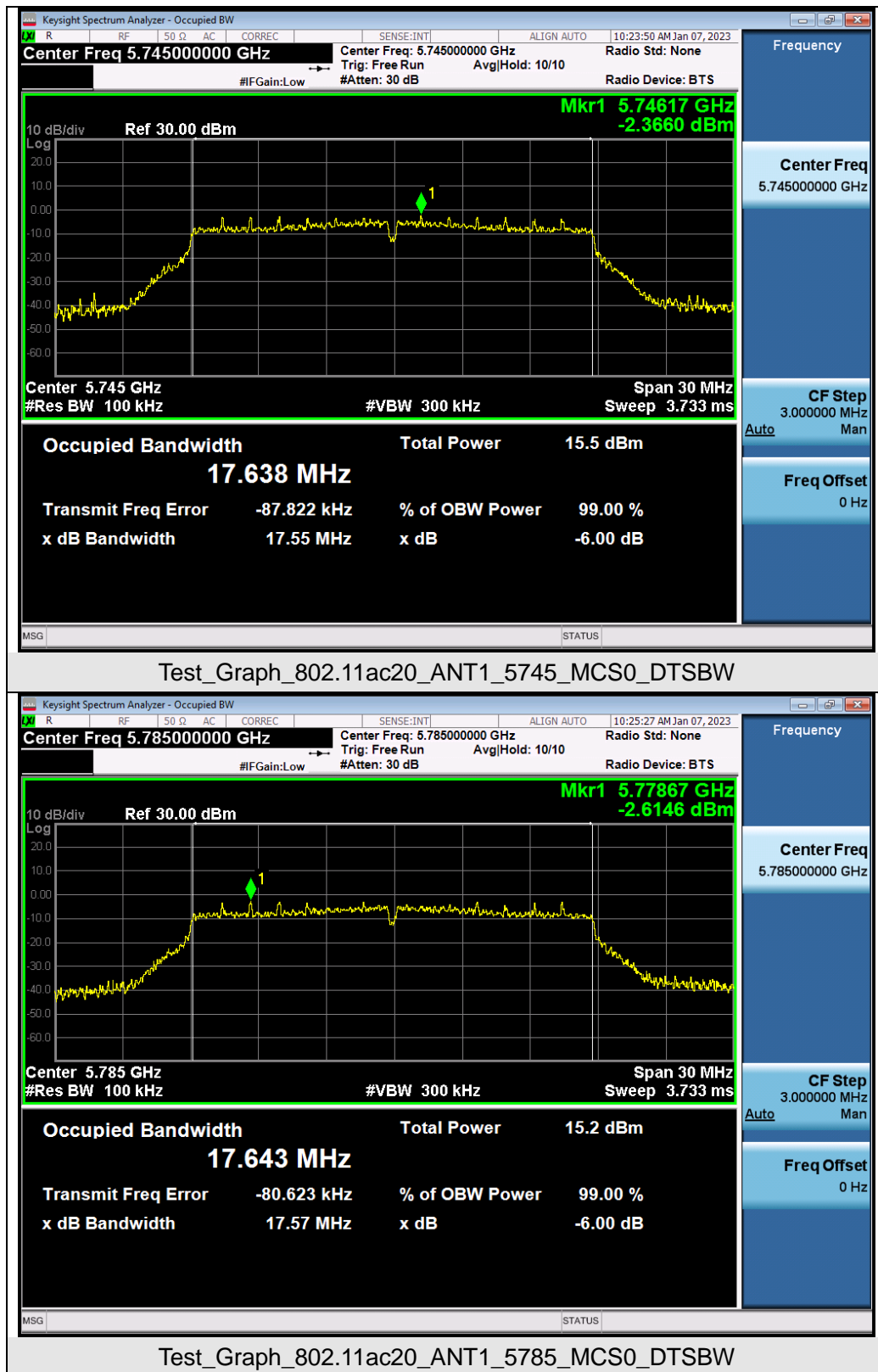
Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

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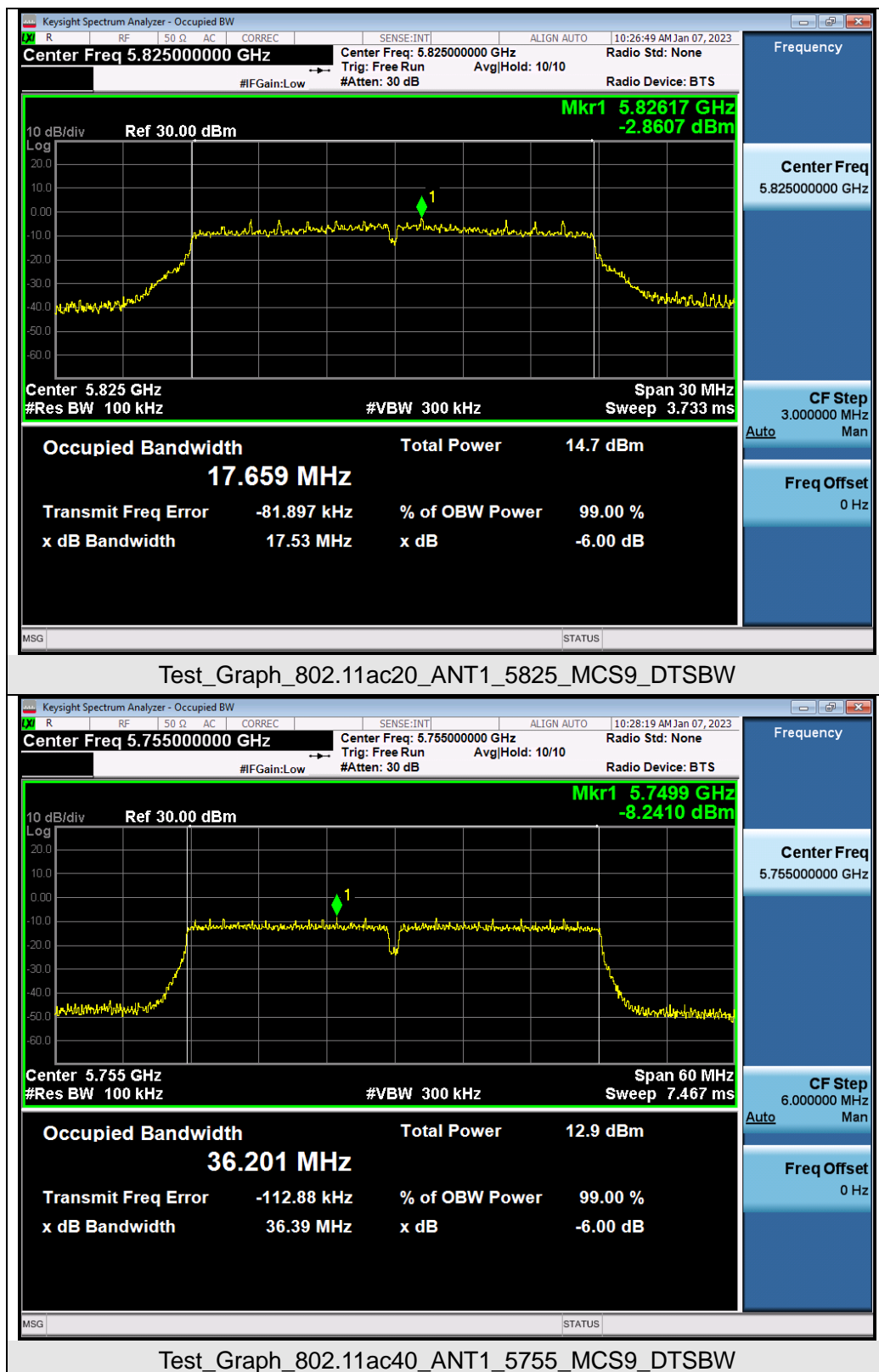


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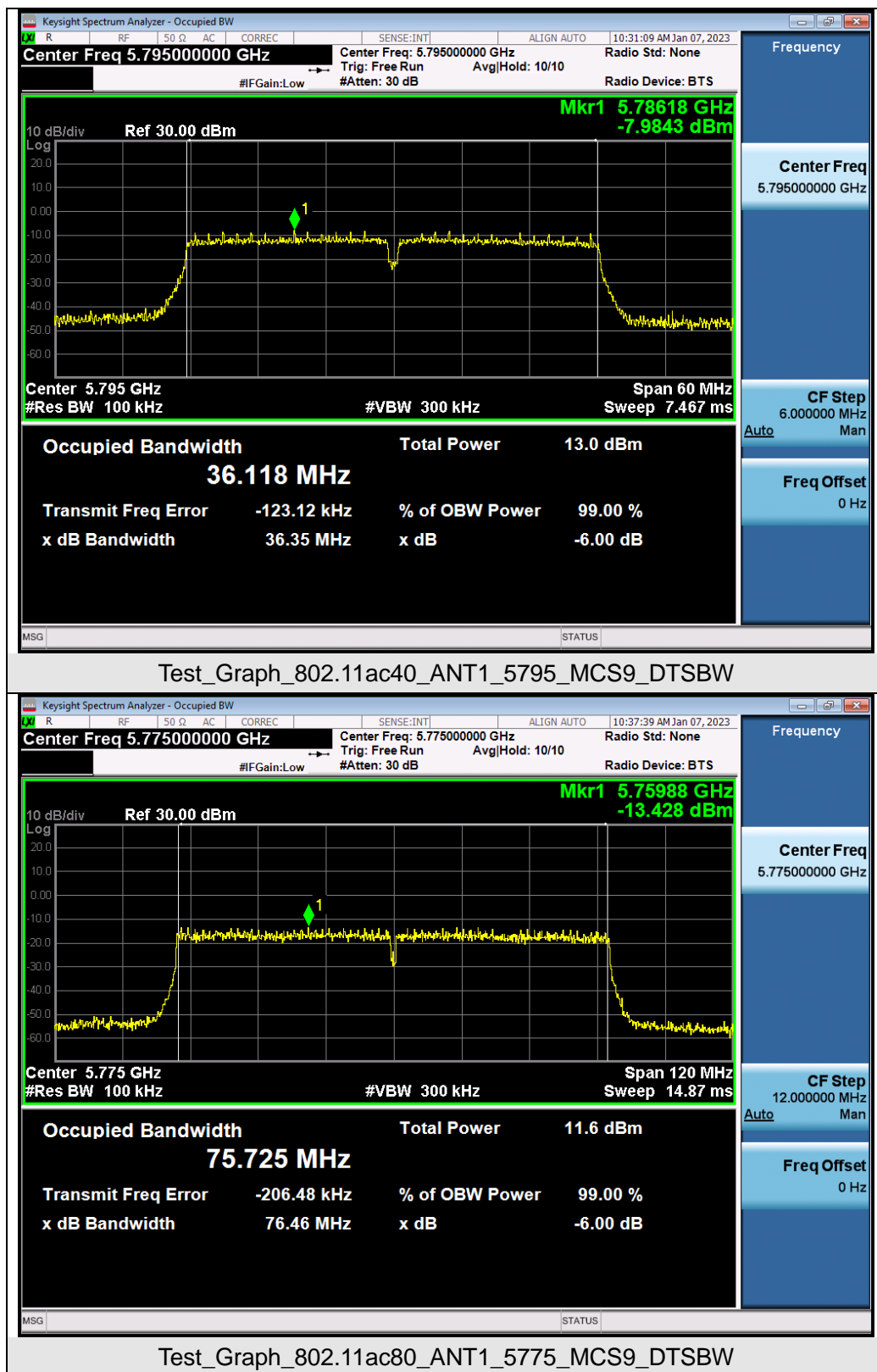


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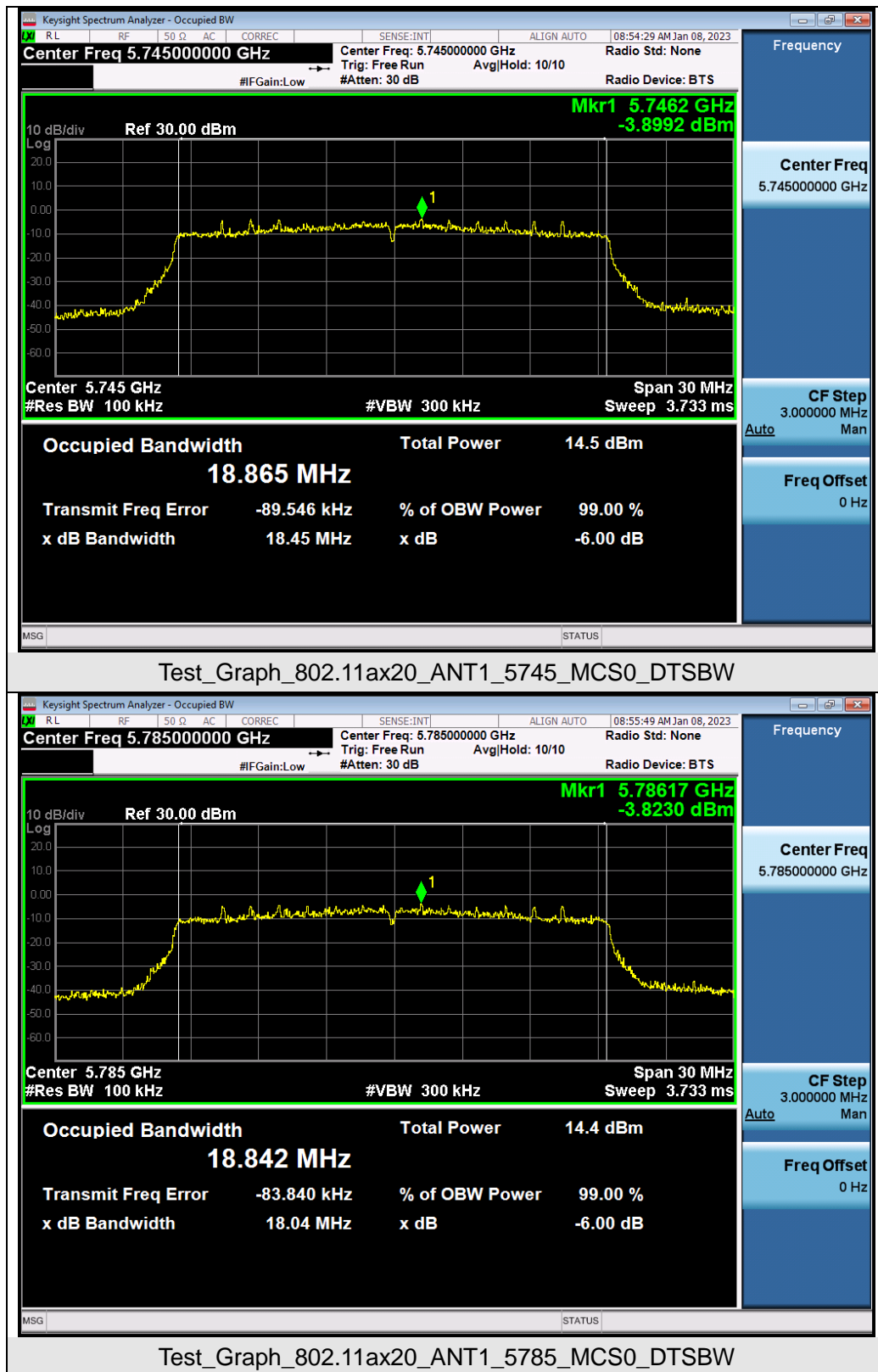


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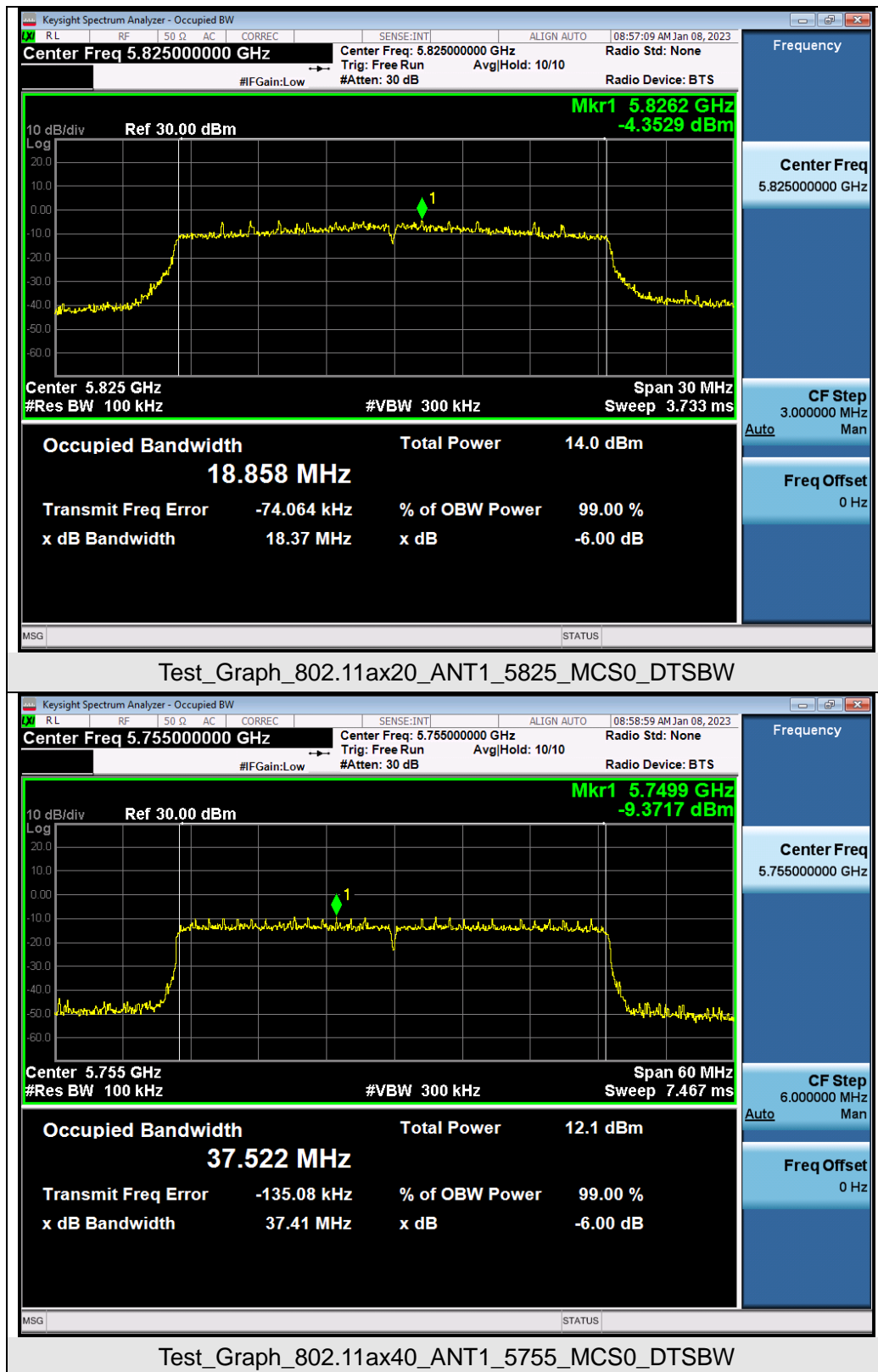
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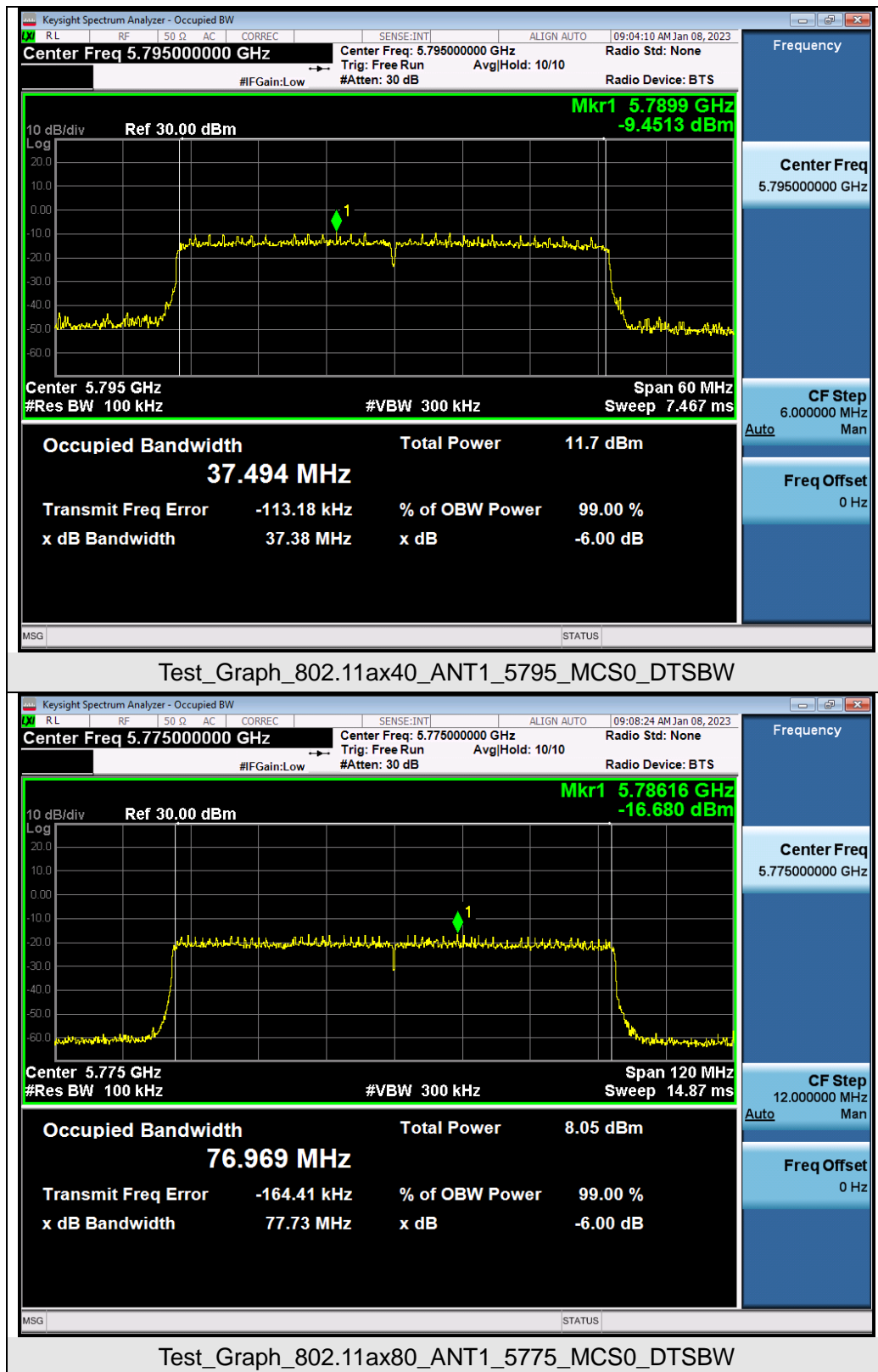
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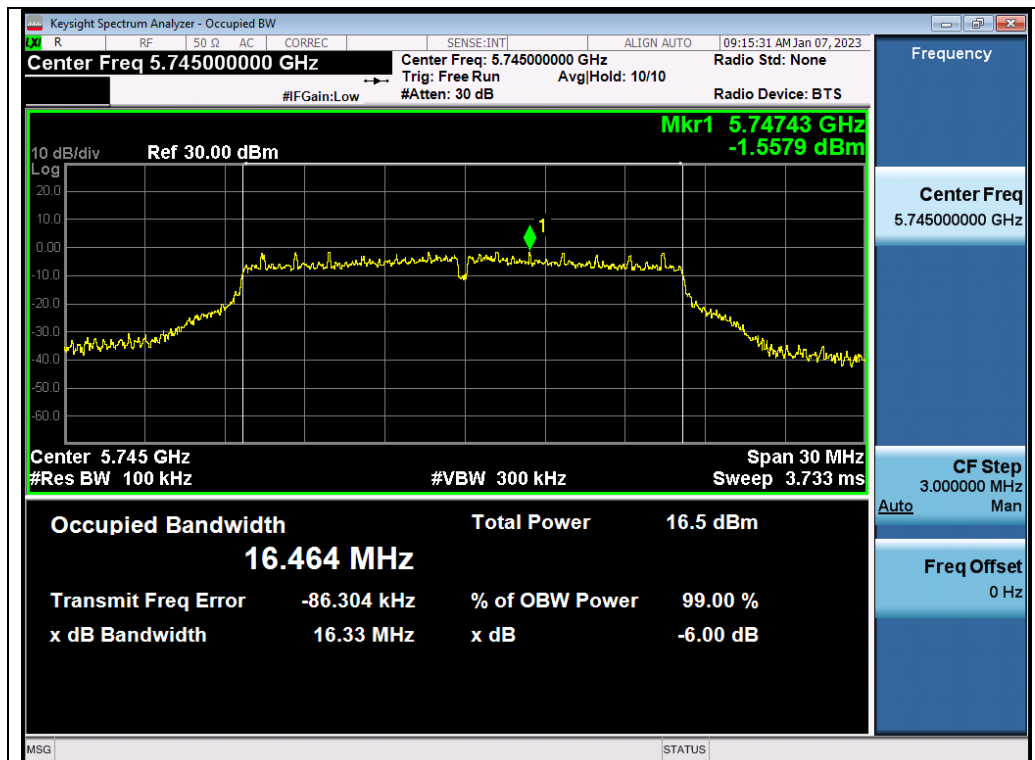
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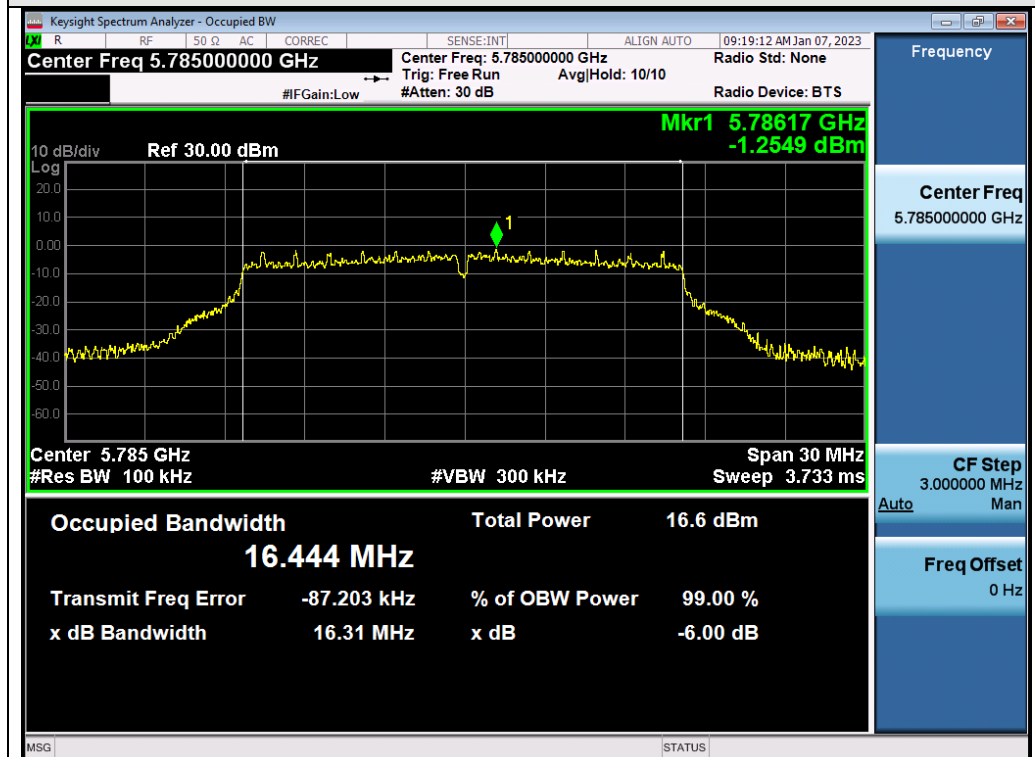
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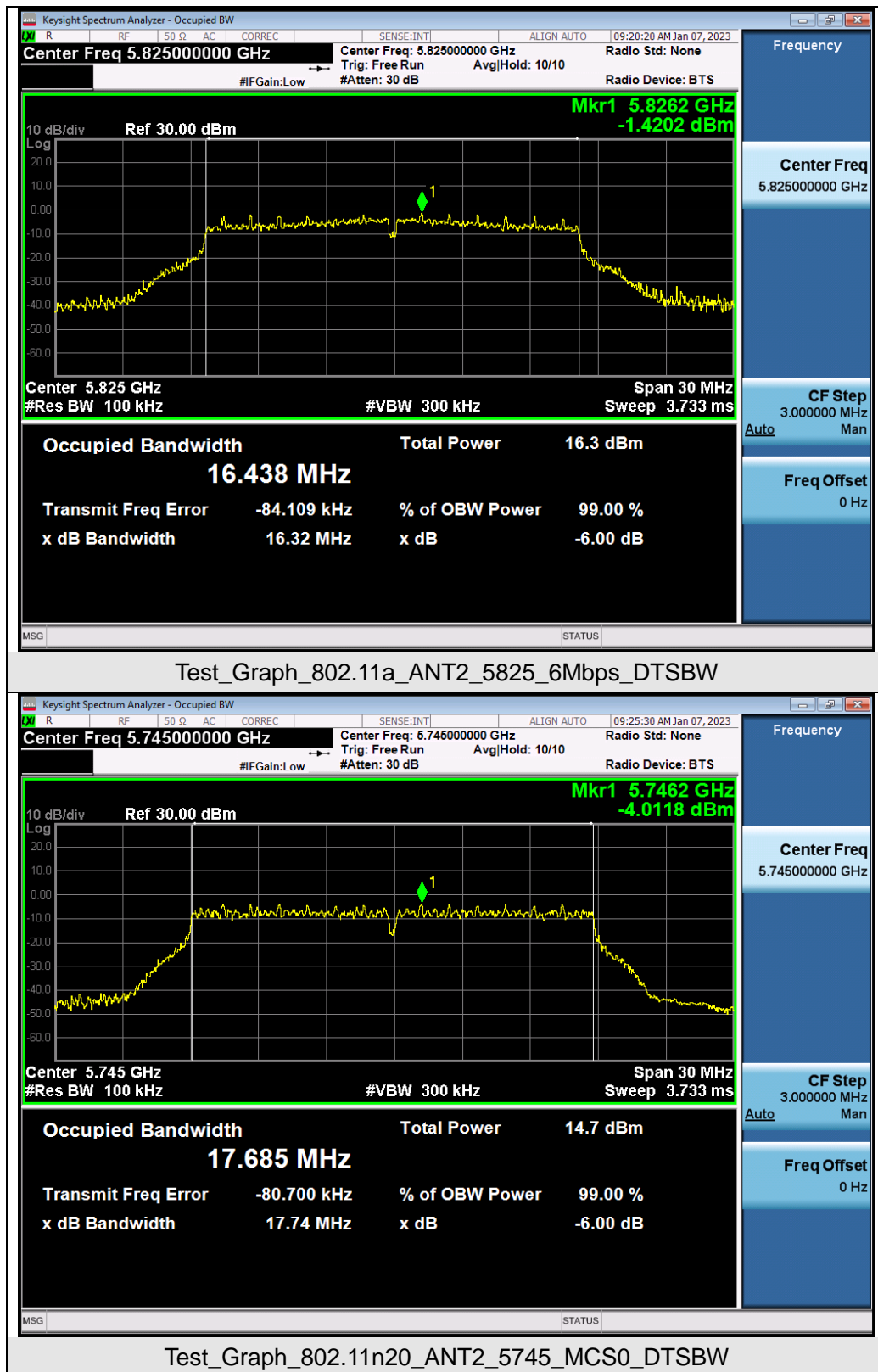


Test_Graph_802.11a_ANT2_5745_6Mbps_DTSSBW

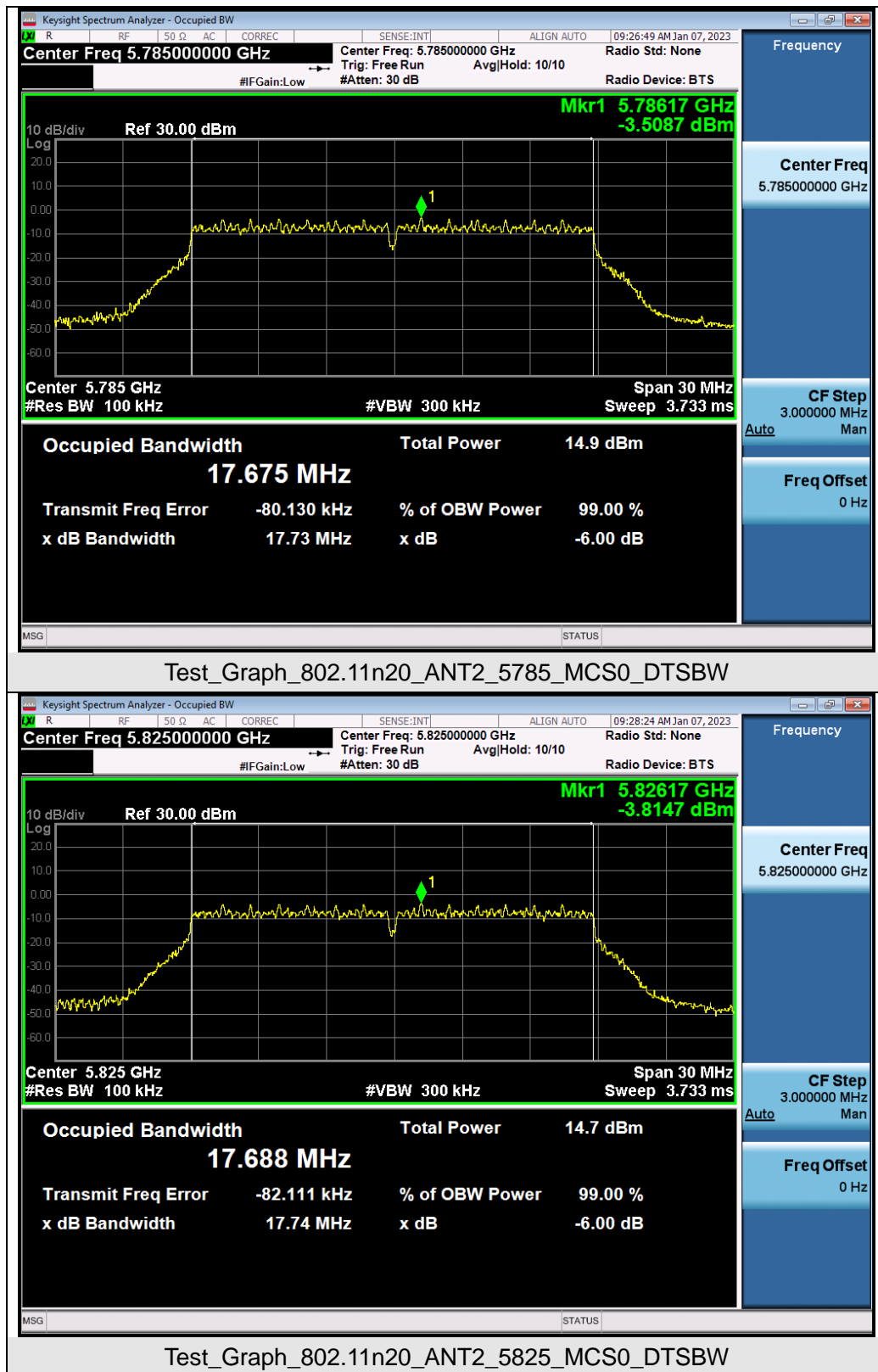


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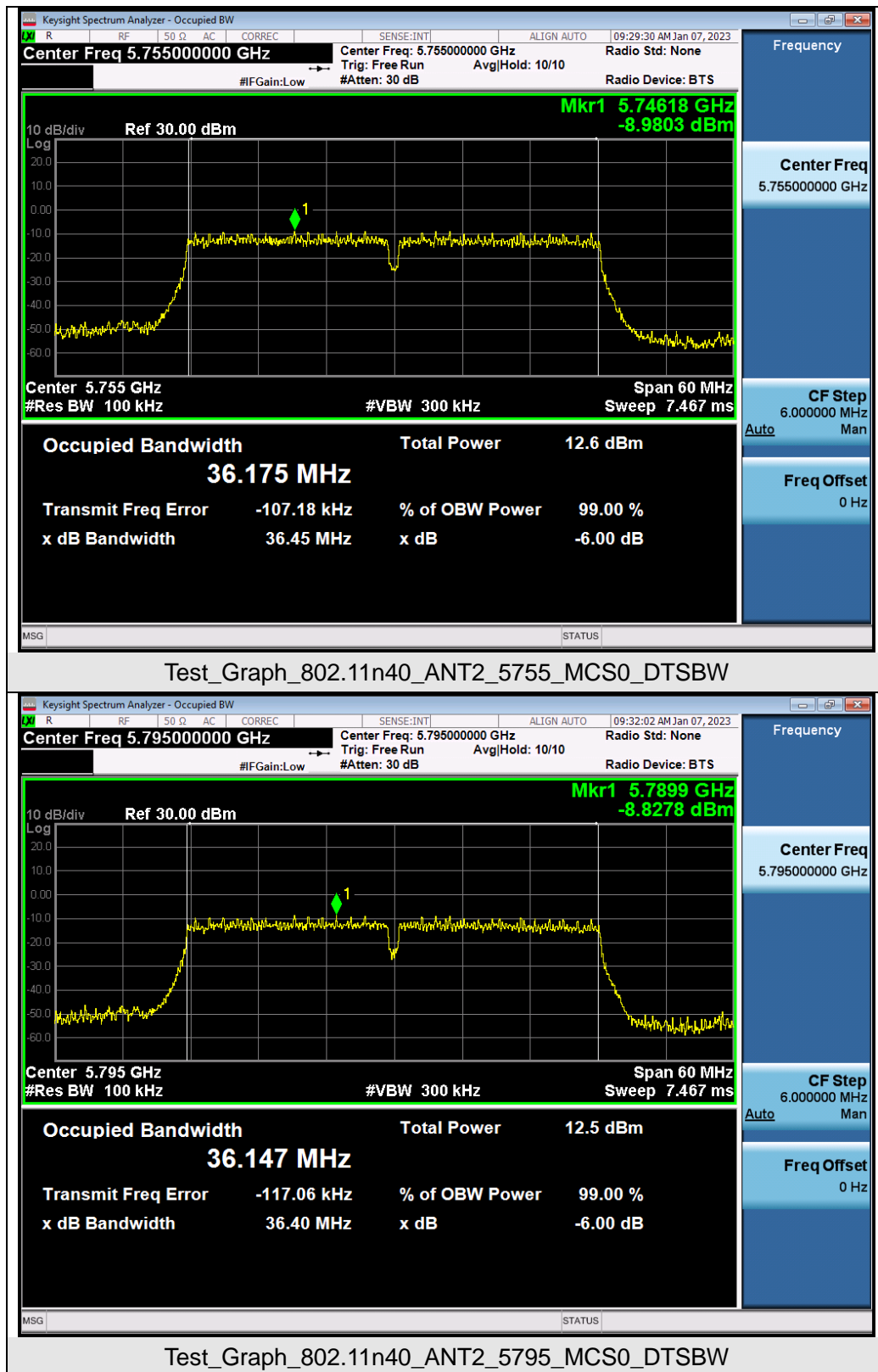
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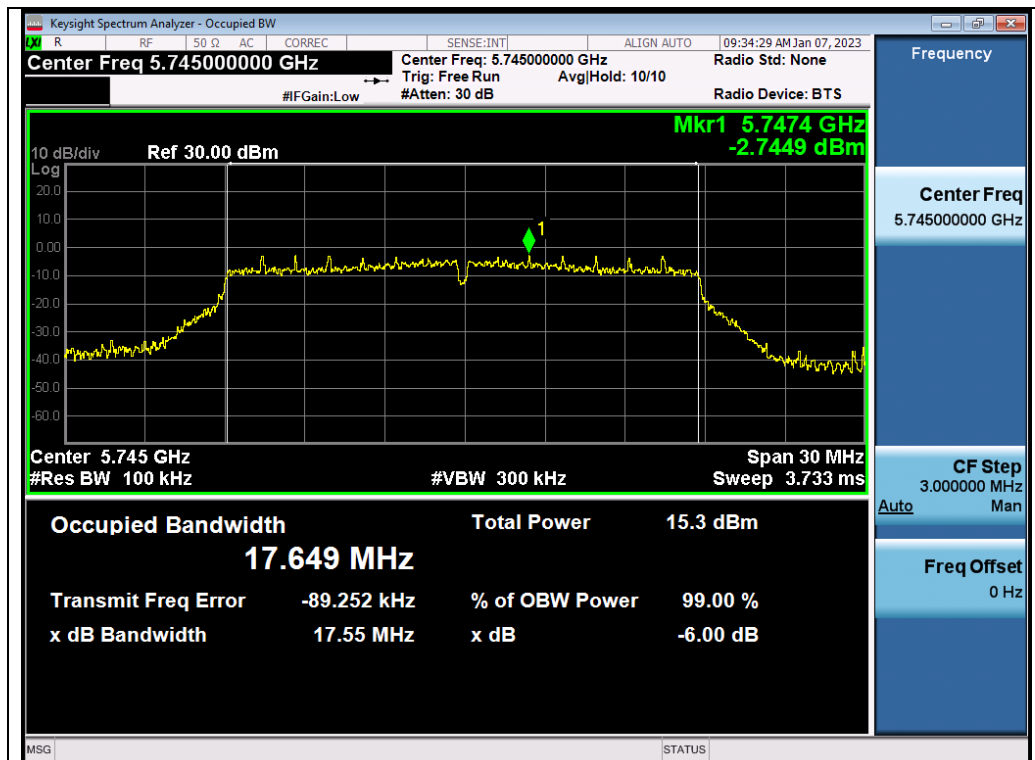


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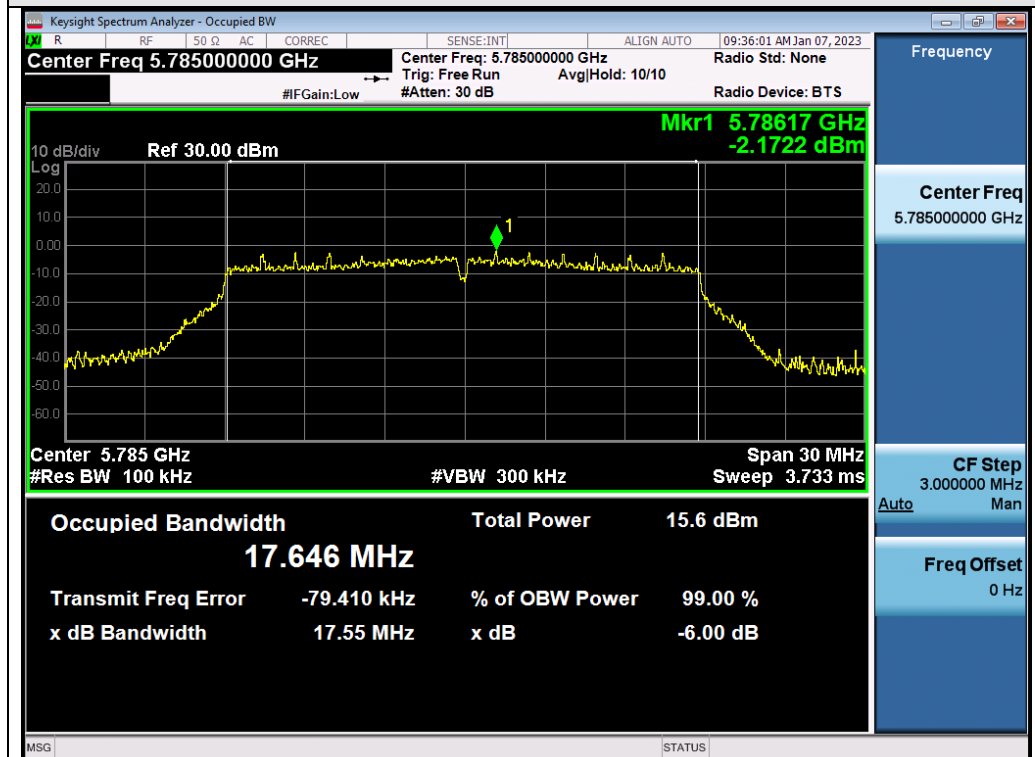


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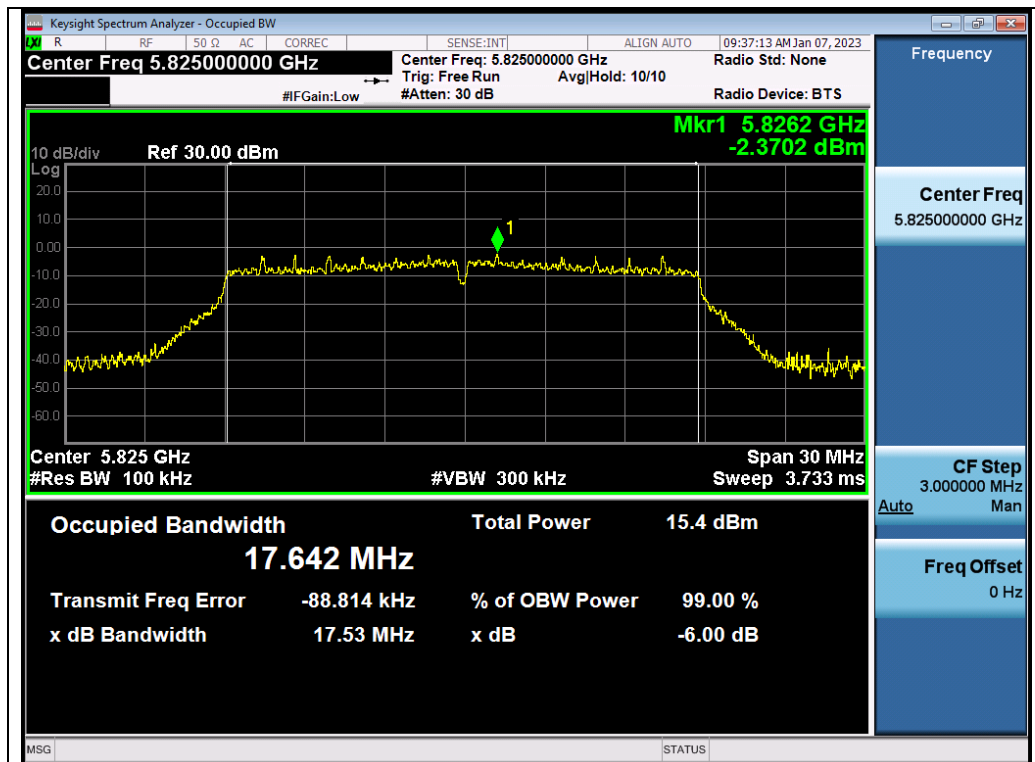


Test_Graph_802.11ac20_ANT2_5745_MCS0_DTSBW

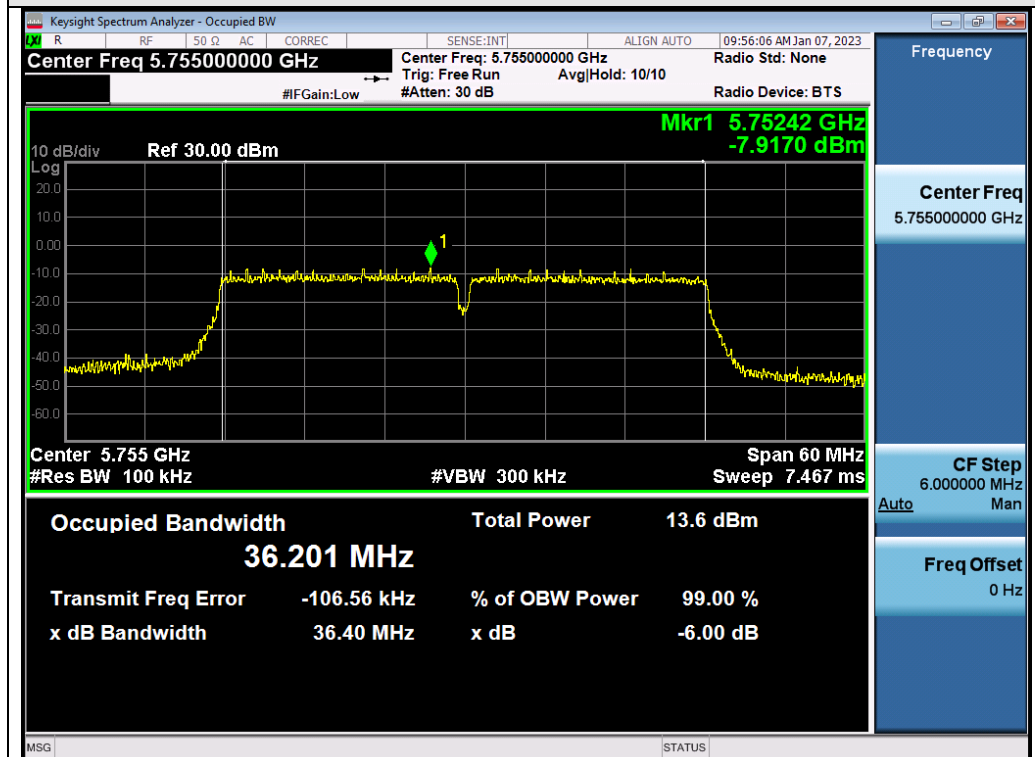


Test_Graph_802.11ac20_ANT2_5785_MCS0_DTSBW

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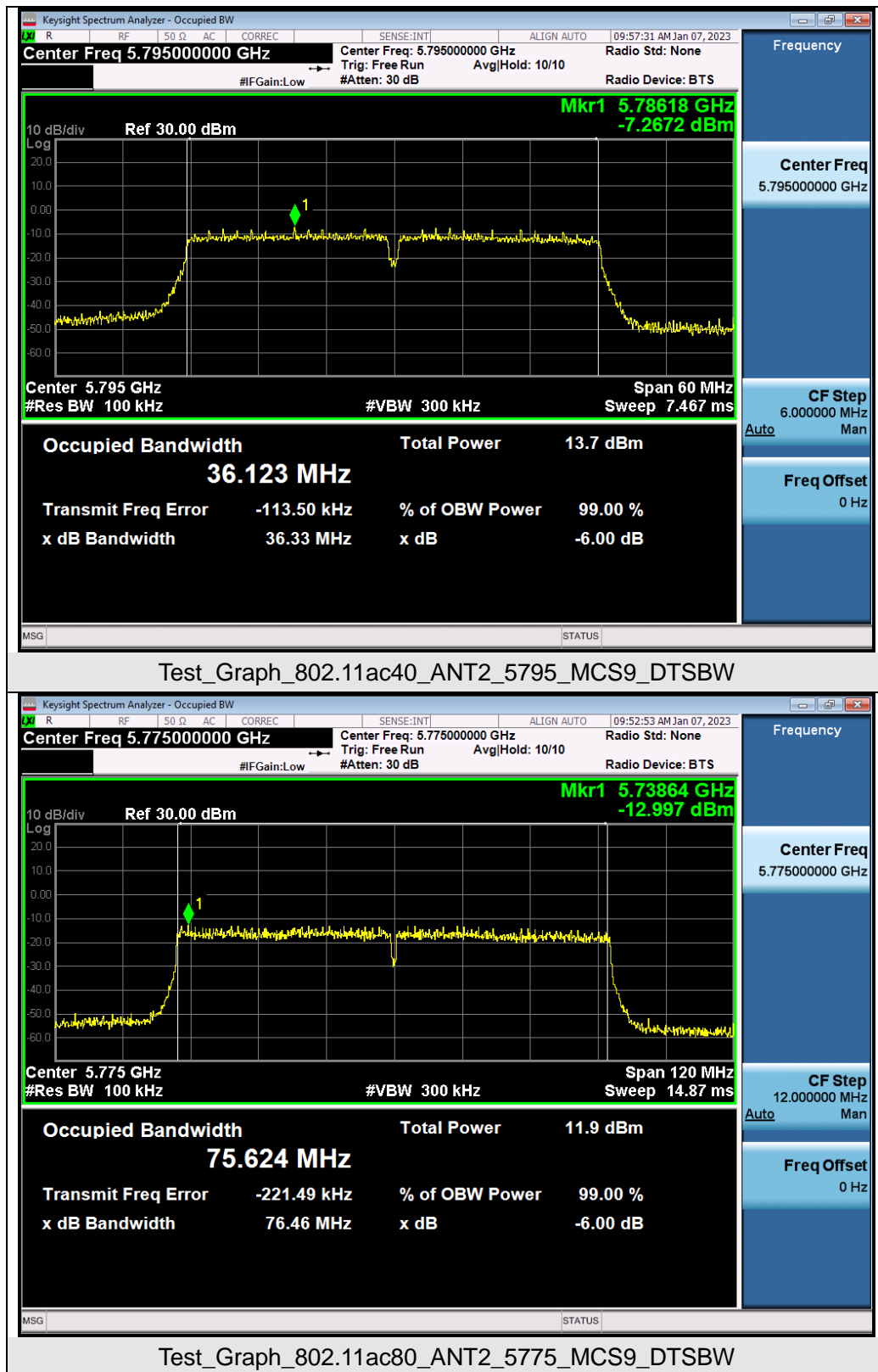
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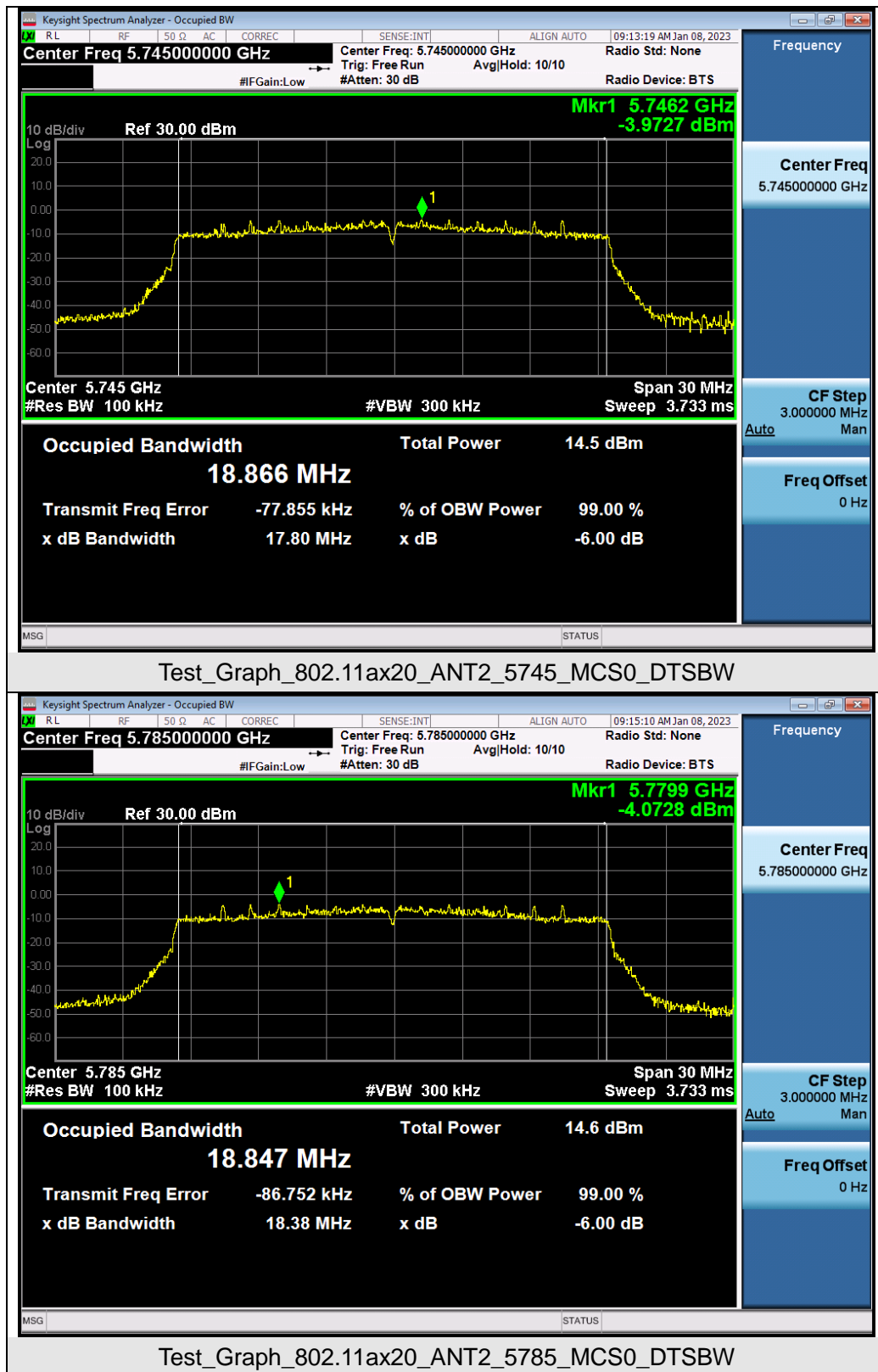
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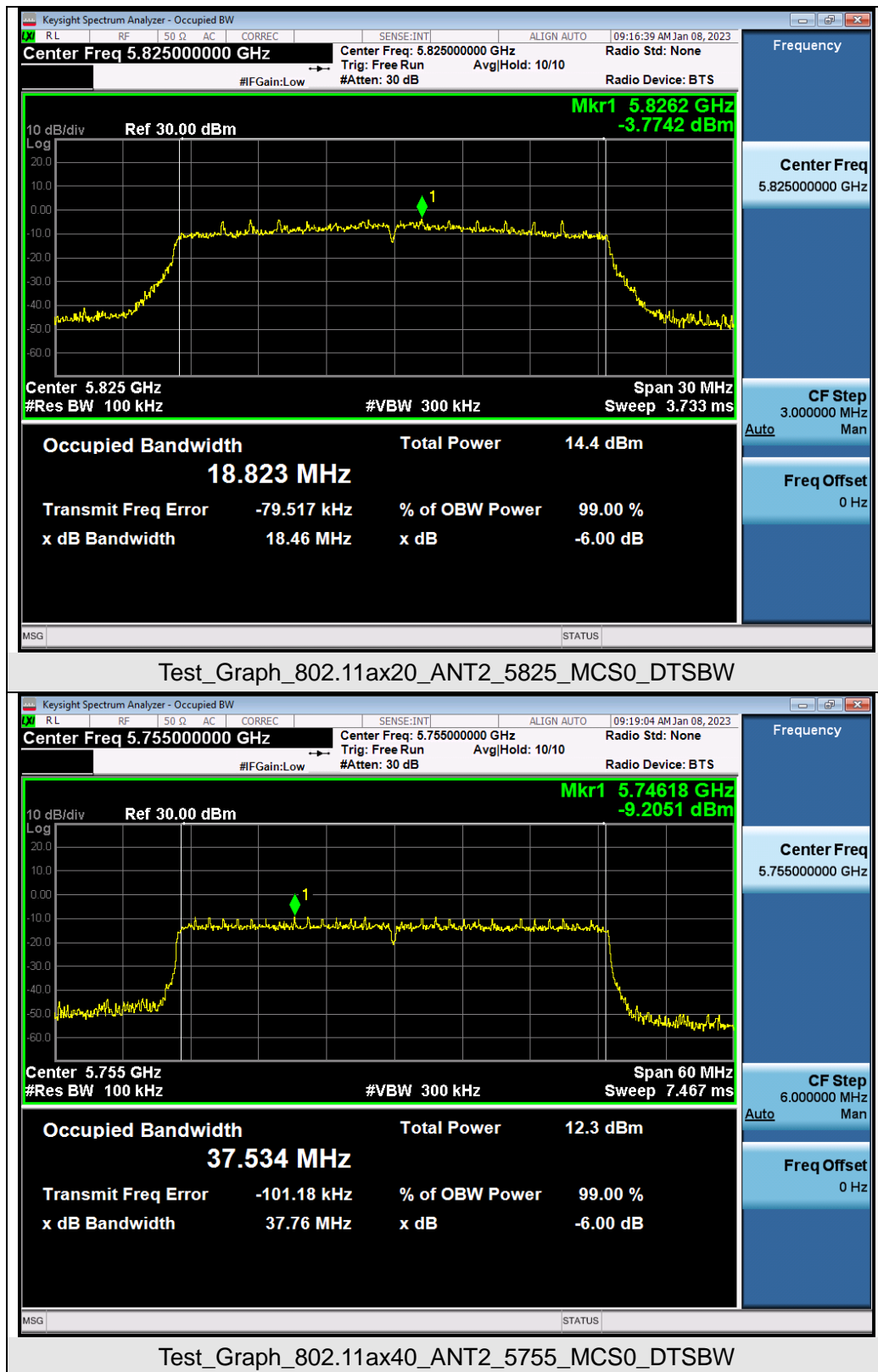
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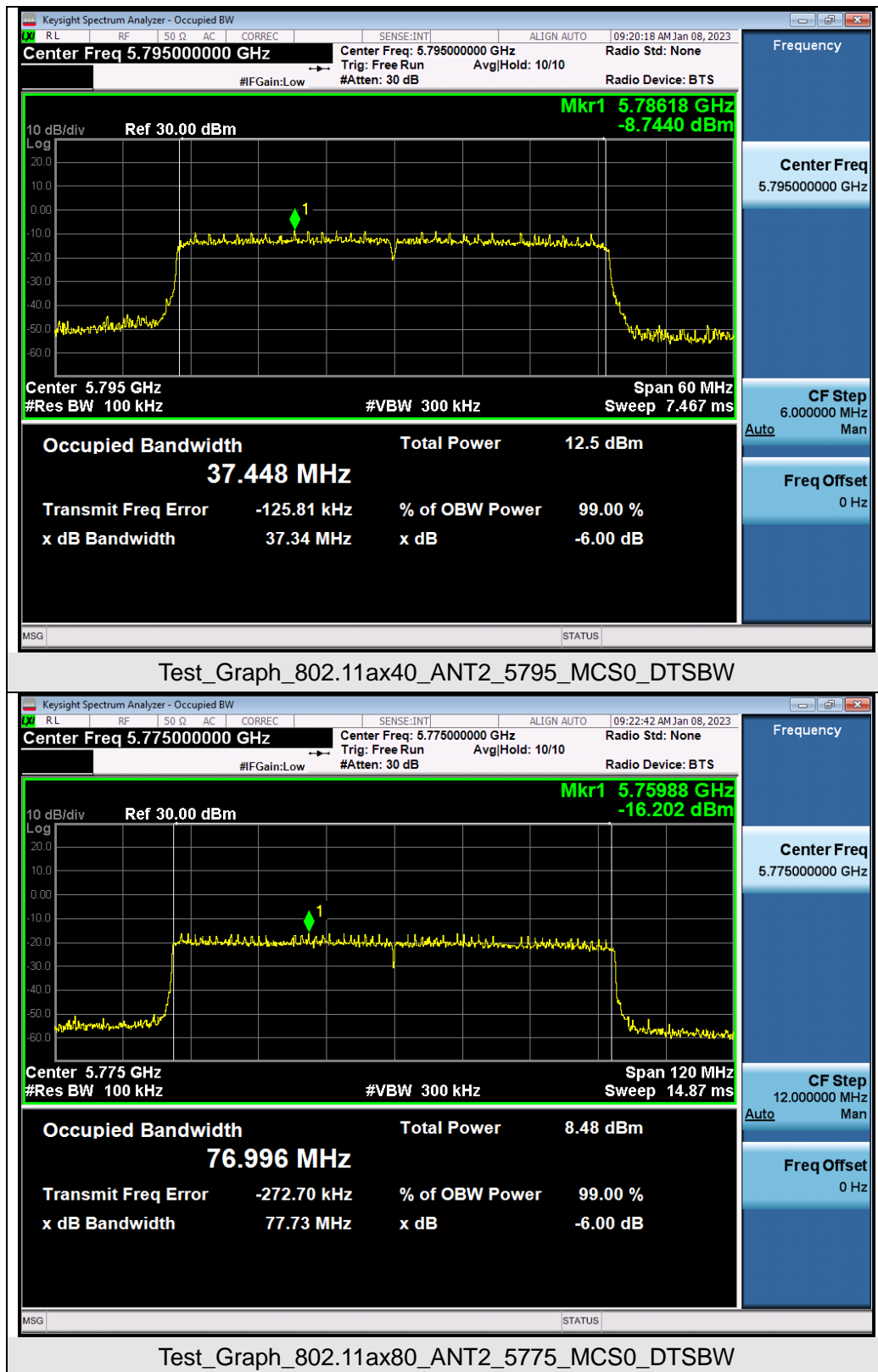


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8. POWER SPECTRAL DENSITY MEASUREMENT

8.1 MEASUREMENT LIMITS

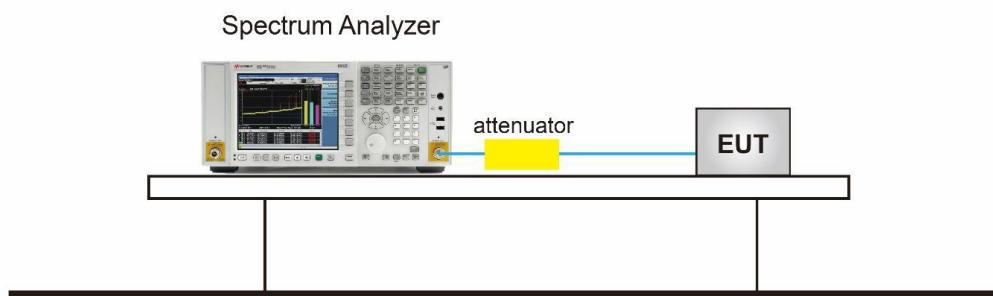
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		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 $\geq [3 \times \text{RBW}]$.
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 $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$ 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 $[10 \log (1/0.25)] = 6 \text{ dB}$ 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	2.997	11	Pass
	5200	3.087	11	Pass
	5240	2.615	11	Pass
802.11n20	5180	1.938	11	Pass
	5200	1.672	11	Pass
	5240	1.769	11	Pass
802.11n40	5190	-0.943	11	Pass
	5230	-1.249	11	Pass
802.11ac20	5180	0.479	11	Pass
	5200	0.524	11	Pass
	5240	0.304	11	Pass
802.11ac40	5190	-4.704	11	Pass
	5230	-4.968	11	Pass
802.11ac80	5210	-7.442	11	Pass
802.11ax20	5180	-0.641	11	Pass
	5200	-0.394	11	Pass
	5240	-1.093	11	Pass
802.11ax40	5190	-5.589	11	Pass
	5230	-5.505	11	Pass
802.11ax80	5210	-8.623	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	2.265	11	Pass
	5200	1.837	11	Pass
	5240	1.120	11	Pass
802.11n20	5180	0.655	11	Pass
	5200	0.642	11	Pass
	5240	-0.300	11	Pass
802.11n40	5190	-2.272	11	Pass
	5230	-2.694	11	Pass
802.11ac20	5180	0.731	11	Pass
	5200	0.282	11	Pass
	5240	-0.577	11	Pass
802.11ac40	5190	-4.844	11	Pass
	5230	-5.828	11	Pass
802.11ac80	5210	-7.947	11	Pass
802.11ax20	5180	-0.328	11	Pass
	5200	-0.362	11	Pass
	5240	-1.326	11	Pass
802.11ax40	5190	-5.163	11	Pass
	5230	-6.105	11	Pass
802.11ax80	5210	-8.752	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	4.350	9.05	Pass
	5200	4.198	9.05	Pass
	5240	3.867	9.05	Pass
802.11n40	5190	1.453	9.05	Pass
	5230	1.099	9.05	Pass
802.11ac20	5180	3.617	9.05	Pass
	5200	3.415	9.05	Pass
	5240	2.896	9.05	Pass
802.11ac40	5190	-1.763	9.05	Pass
	5230	-2.366	9.05	Pass
802.11ac80	5210	-4.677	9.05	Pass
802.11ax20	5180	2.529	9.05	Pass
	5200	2.632	9.05	Pass
	5240	1.802	9.05	Pass
802.11ax40	5190	-2.360	9.05	Pass
	5230	-2.784	9.05	Pass
802.11ax80	5210	-5.677	9.05	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	-7.899	-0.909	30	Pass
	5785	-7.987	-0.997	30	Pass
	5825	-8.739	-1.749	30	Pass
802.11n20	5745	-7.810	-0.820	30	Pass
	5785	-8.197	-1.207	30	Pass
	5825	-8.990	-2.000	30	Pass
802.11n40	5755	-11.722	-4.732	30	Pass
	5795	-11.269	-4.279	30	Pass
802.11ac20	5745	-9.500	-2.510	30	Pass
	5785	-9.359	-2.369	30	Pass
	5825	-9.748	-2.758	30	Pass
802.11ac40	5755	-15.831	-8.841	30	Pass
	5795	-15.753	-8.763	30	Pass
802.11ac80	5775	-16.495	-9.505	30	Pass
802.11ax20	5745	-11.075	-4.085	30	Pass
	5785	-10.864	-3.874	30	Pass
	5825	-11.391	-4.401	30	Pass
802.11ax40	5755	-16.495	-9.505	30	Pass
	5795	-16.782	-9.792	30	Pass
802.11ax80	5775	-15.807	-8.817	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	-8.710	-1.720	30	Pass
	5785	-7.793	-0.803	30	Pass
	5825	-7.937	-0.947	30	Pass
802.11n20	5745	-8.430	-1.440	30	Pass
	5785	-8.204	-1.214	30	Pass
	5825	-8.832	-1.842	30	Pass
802.11n40	5755	-10.659	-3.669	30	Pass
	5795	-10.624	-3.634	30	Pass
802.11ac20	5745	-9.624	-2.634	30	Pass
	5785	-9.000	-2.010	30	Pass
	5825	-9.495	-2.505	30	Pass
802.11ac40	5755	-15.356	-8.366	30	Pass
	5795	-14.994	-8.004	30	Pass
802.11ac80	5775	-16.245	-9.255	30	Pass
802.11ax20	5745	-10.896	-3.906	30	Pass
	5785	-10.614	-3.624	30	Pass
	5825	-11.145	-4.155	30	Pass
802.11ax40	5755	-16.127	-9.137	30	Pass
	5795	-15.937	-8.947	30	Pass
802.11ax80	5775	-16.587	-9.597	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	-5.099	1.891	28.05	Pass
	5785	-5.190	1.800	28.05	Pass
	5825	-5.900	1.090	28.05	Pass
802.11n40	5755	-8.148	-1.158	28.05	Pass
	5795	-7.924	-0.934	28.05	Pass
802.11ac20	5745	-6.551	0.439	28.05	Pass
	5785	-6.165	0.825	28.05	Pass
	5825	-6.609	0.381	28.05	Pass
802.11ac40	5755	-12.577	-5.587	28.05	Pass
	5795	-12.347	-5.357	28.05	Pass
802.11ac80	5775	-13.358	-6.368	28.05	Pass
802.11ax20	5745	-7.974	-0.984	28.05	Pass
	5785	-7.727	-0.737	28.05	Pass
	5825	-8.256	-1.266	28.05	Pass
802.11ax40	5755	-13.297	-6.307	28.05	Pass
	5795	-13.329	-6.339	28.05	Pass
802.11ax80	5775	-13.169	-6.179	28.05	Pass

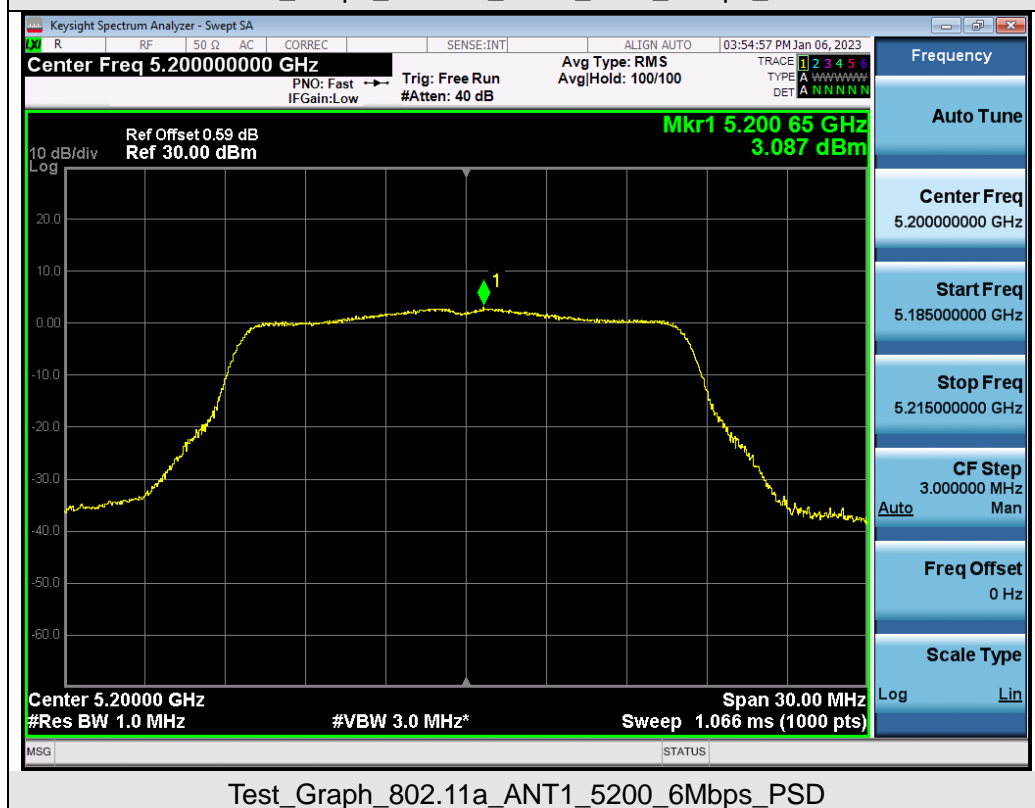
Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

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

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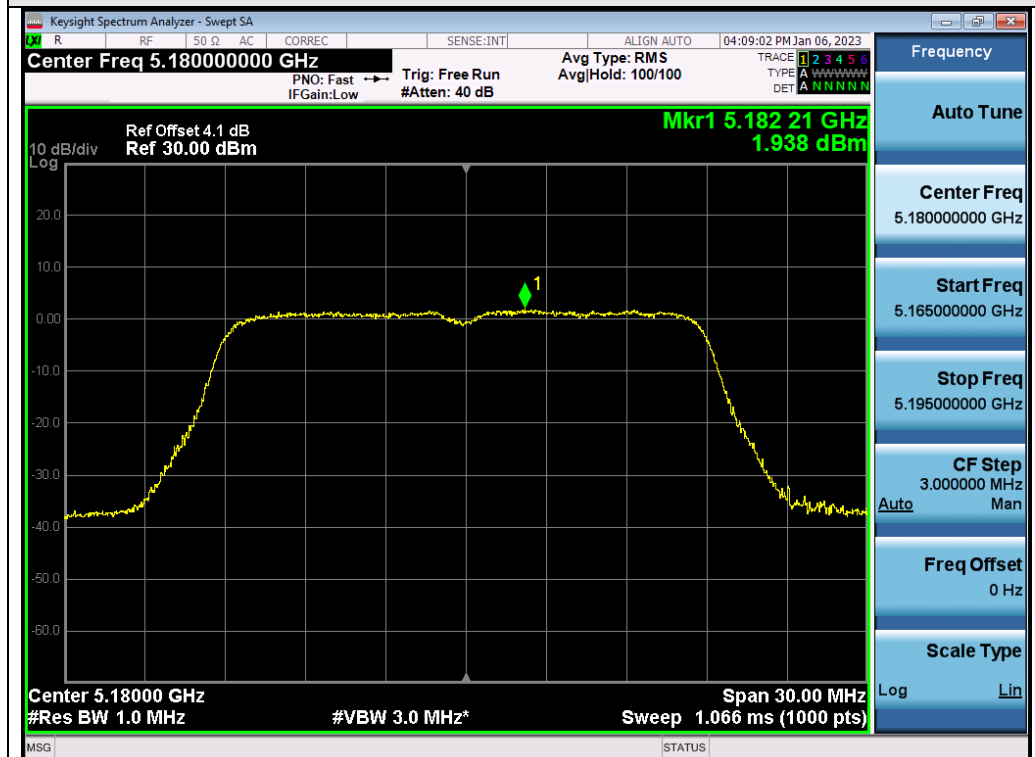
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



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Test_Graph_802.11a_ANT1_5240_6Mbps_PSD

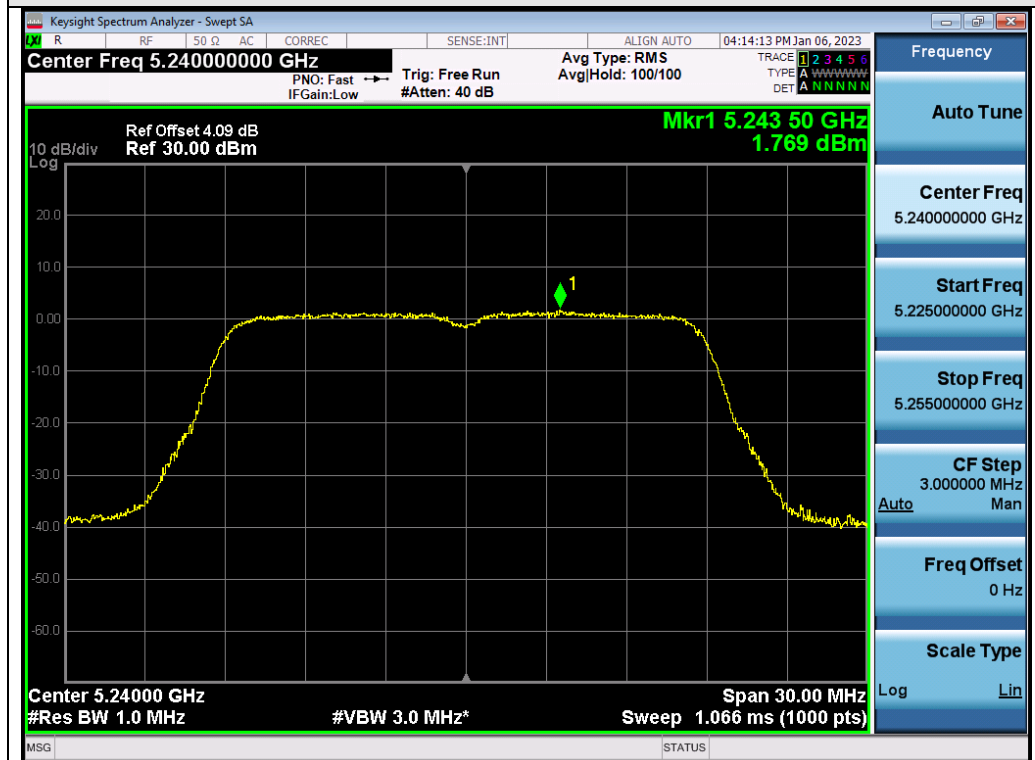


Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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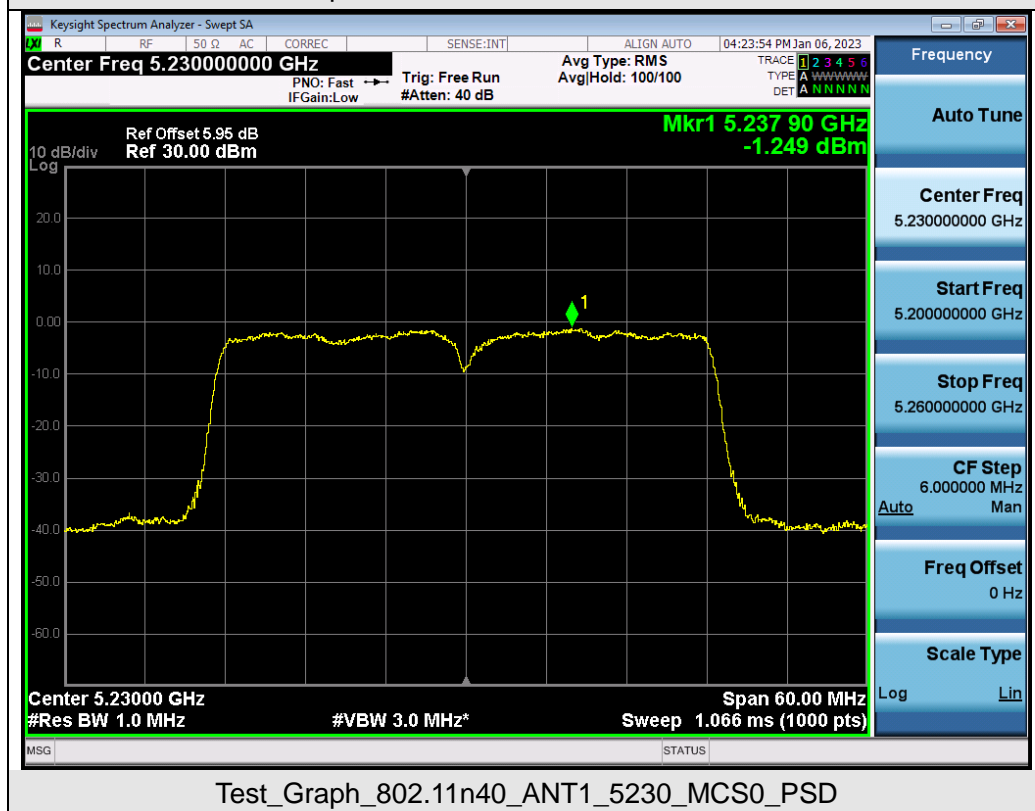
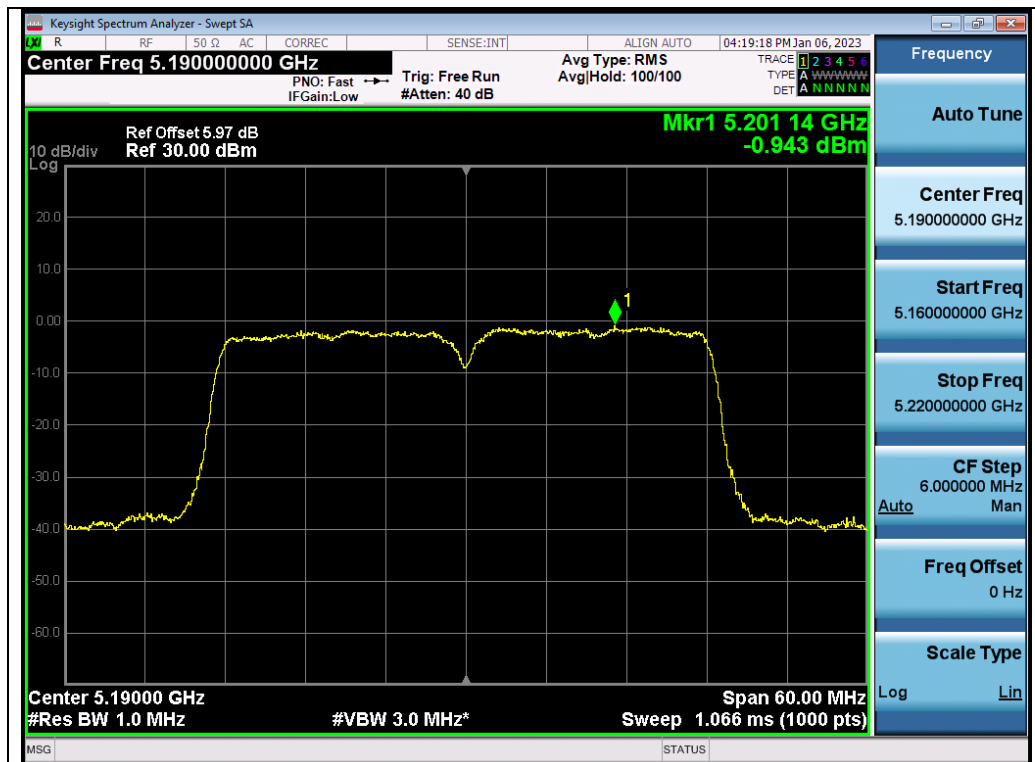


Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



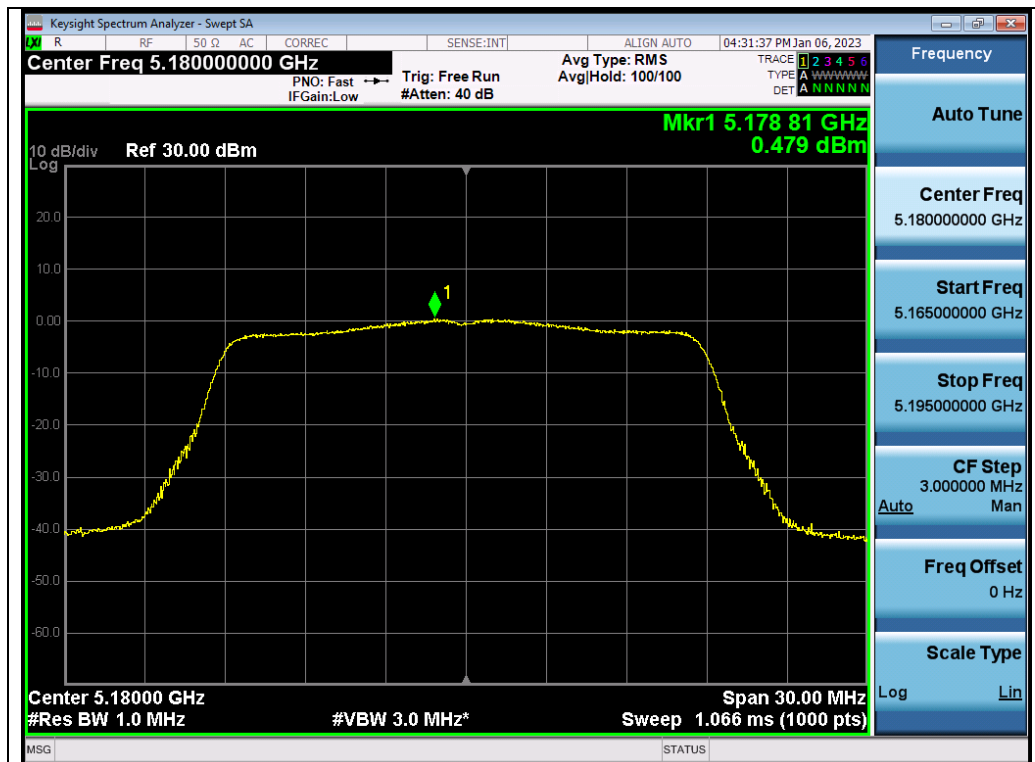
Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

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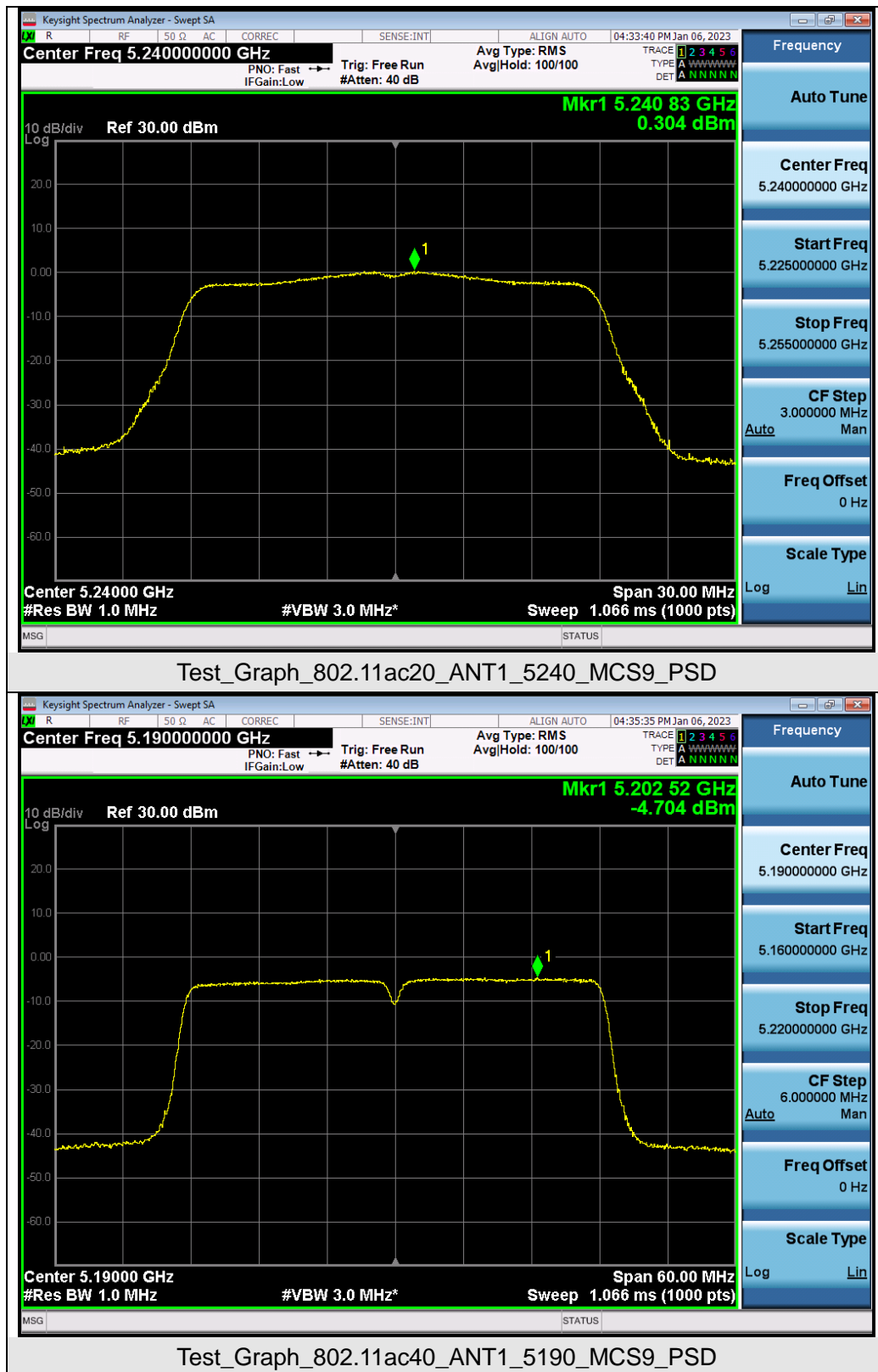
Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

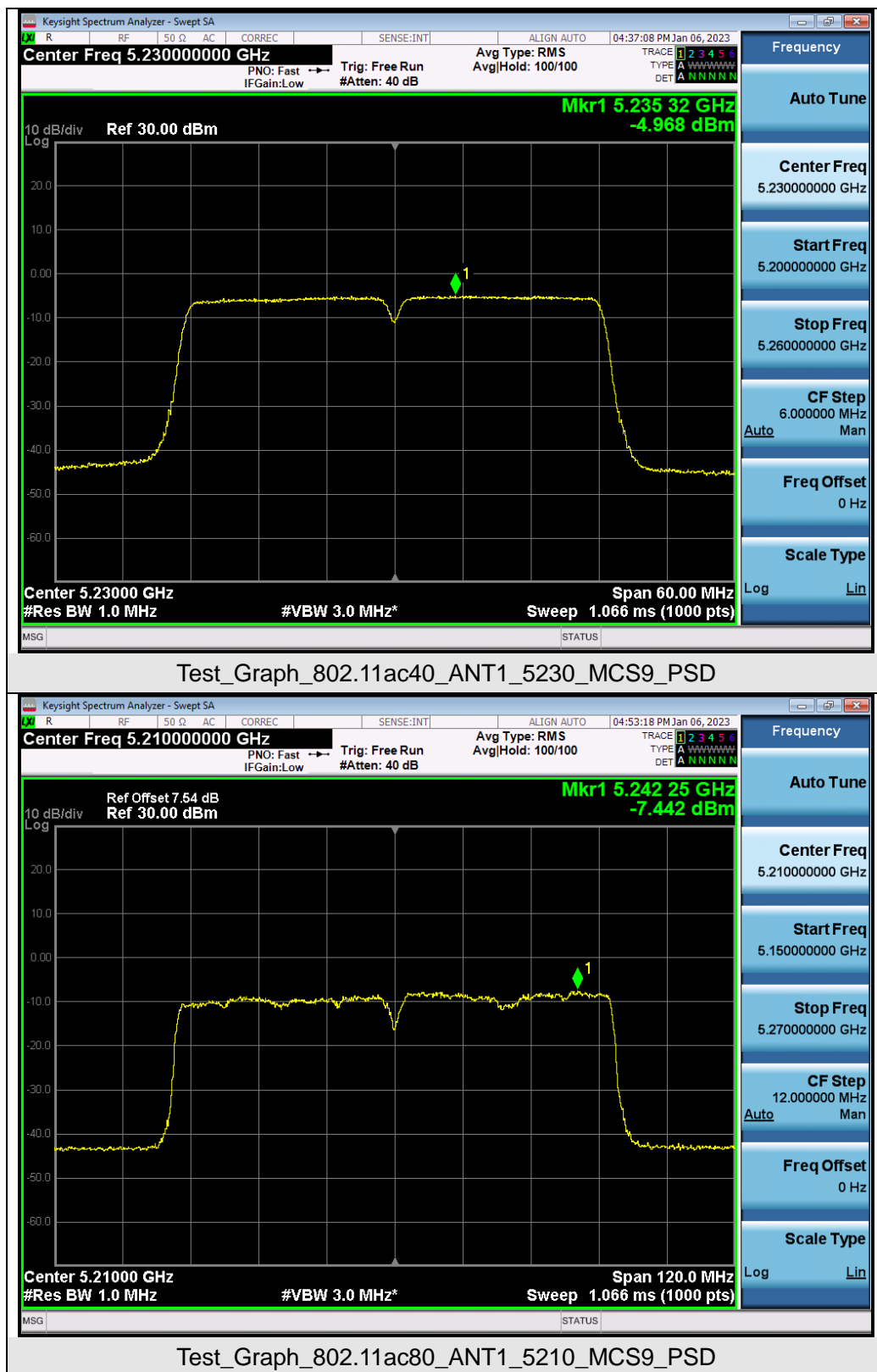
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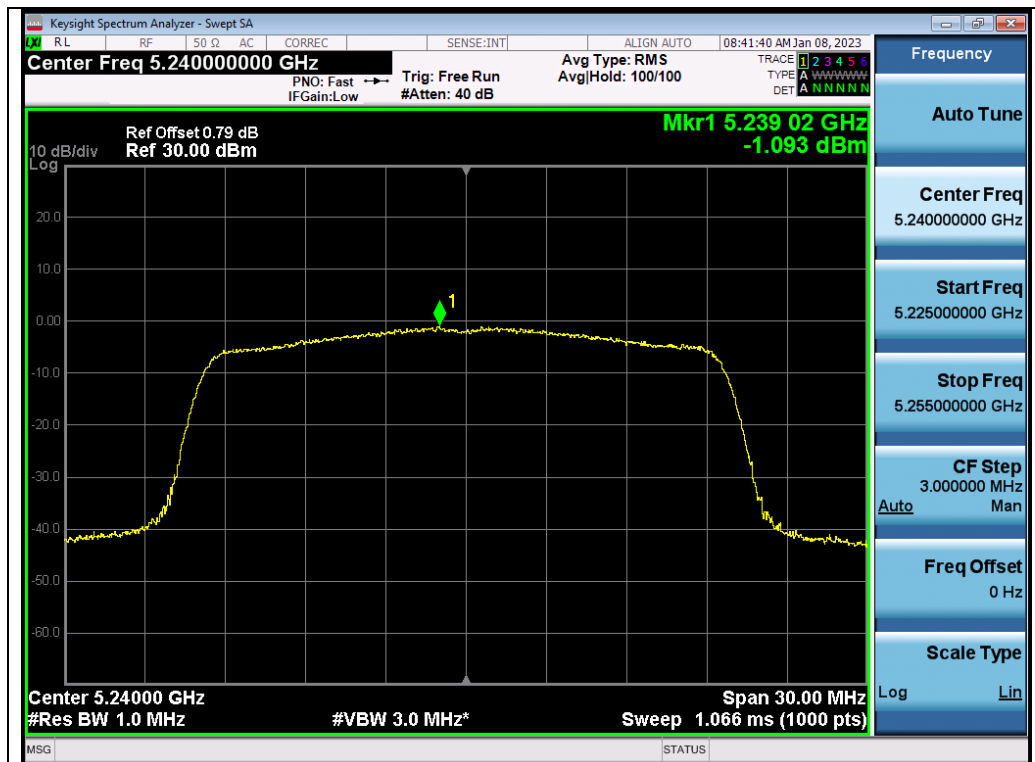


Test_Graph_802.11ax20_ANT1_5180_MCS0_PSD

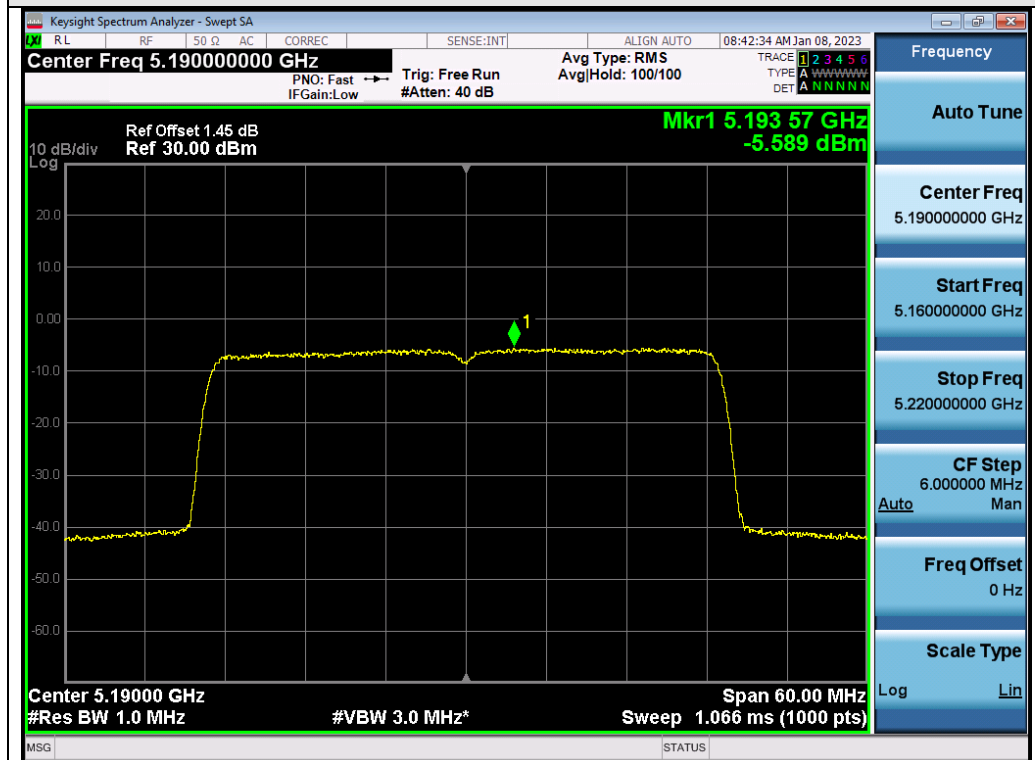


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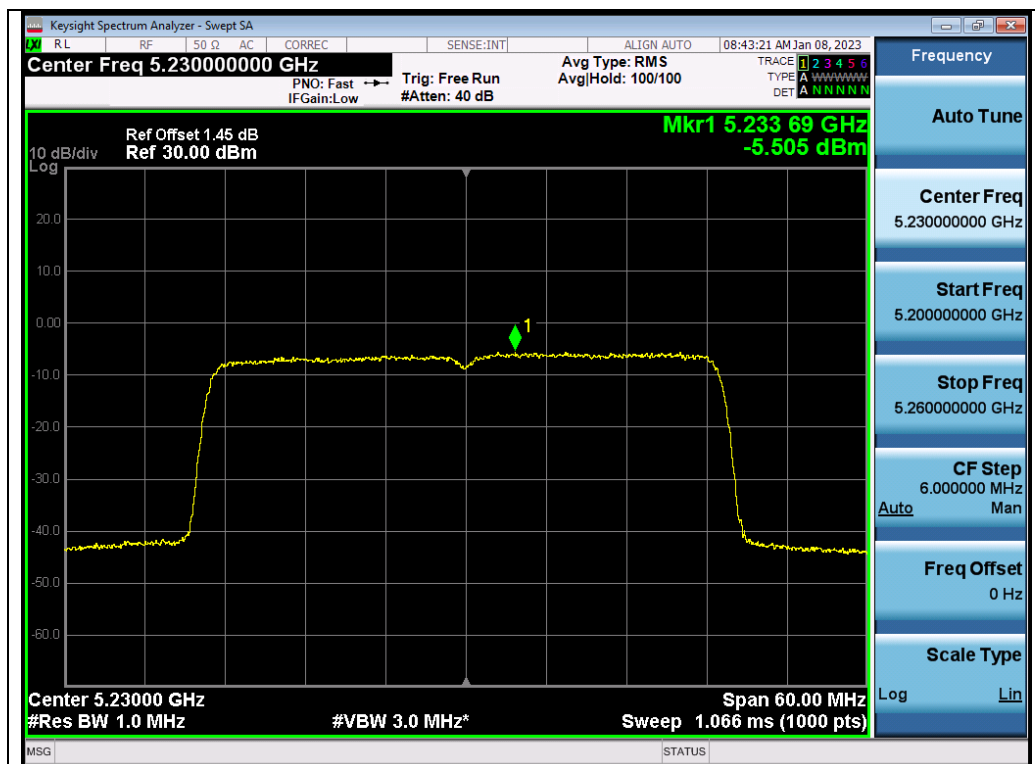


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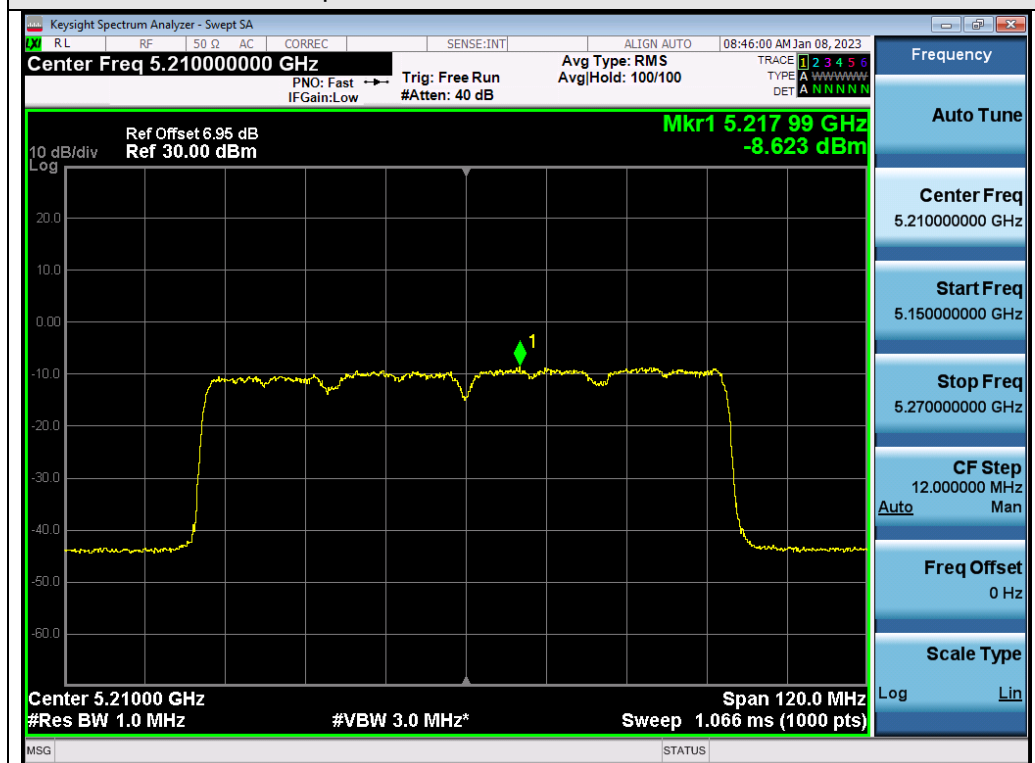


Test_Graph_802.11ax40_ANT1_5190_MCS0_PSD

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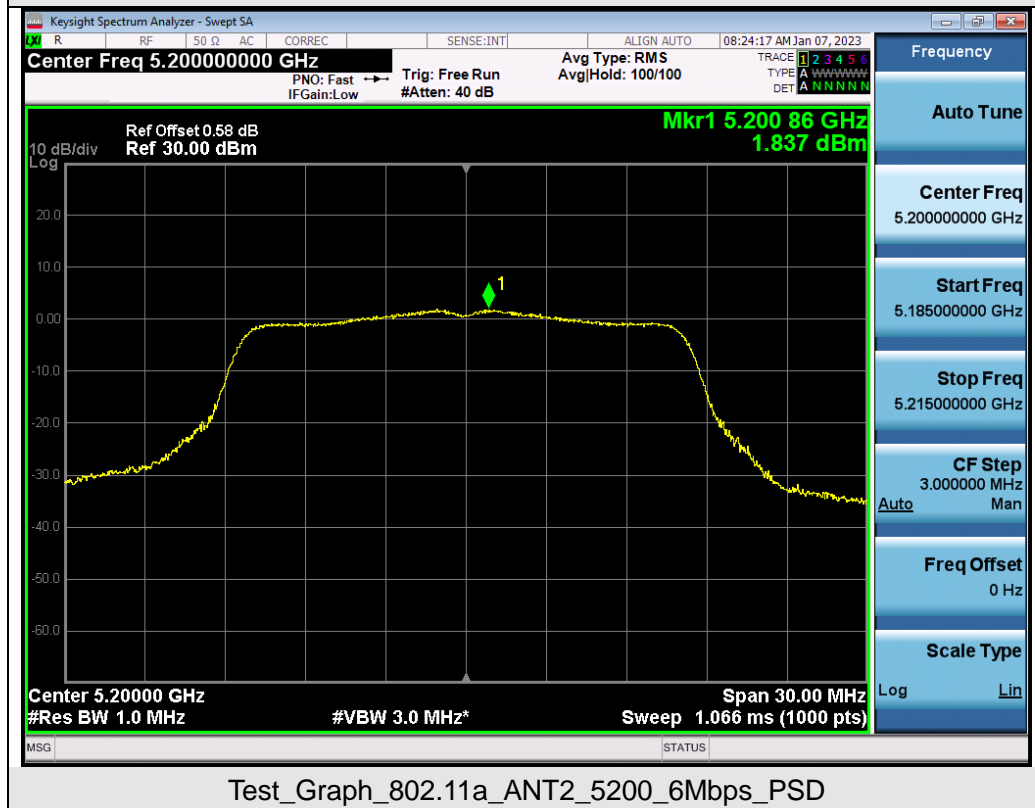


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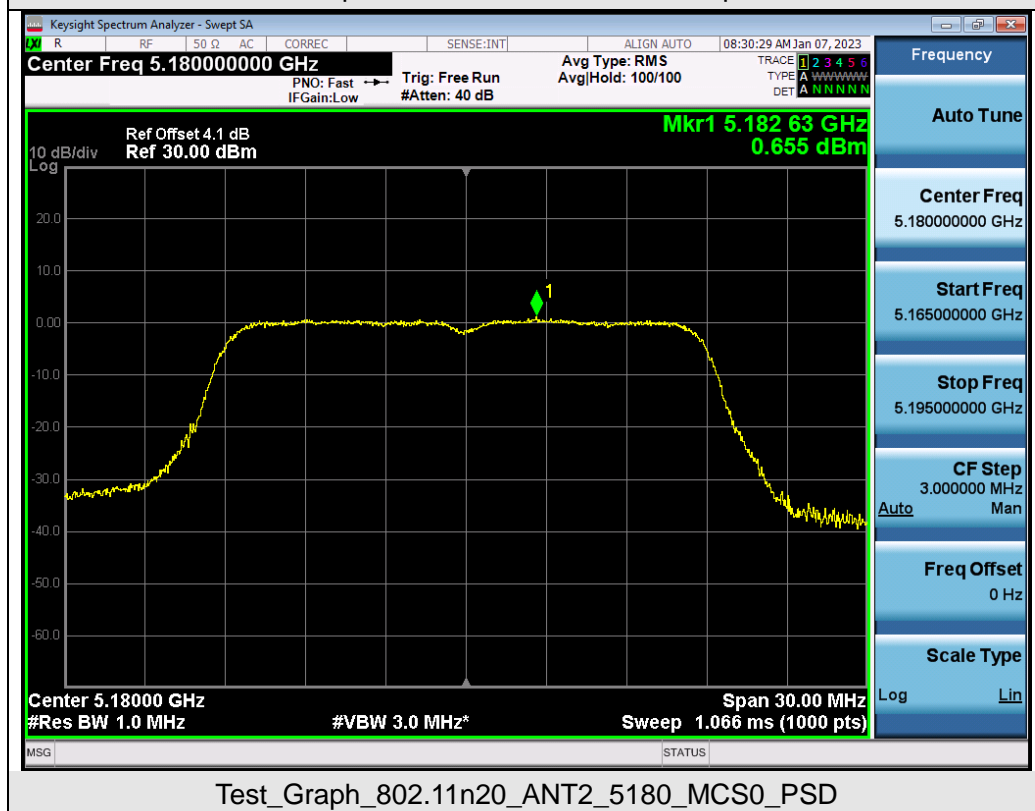
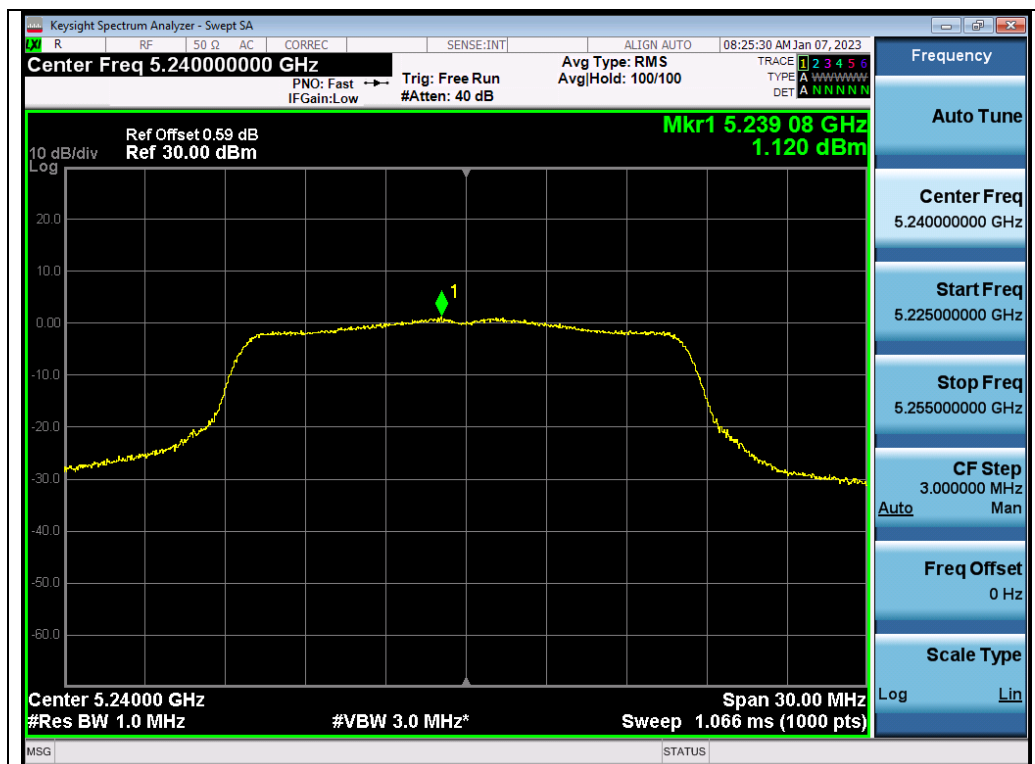


Test_Graph_802.11ax80_ANT1_5210_MCS0_PSD

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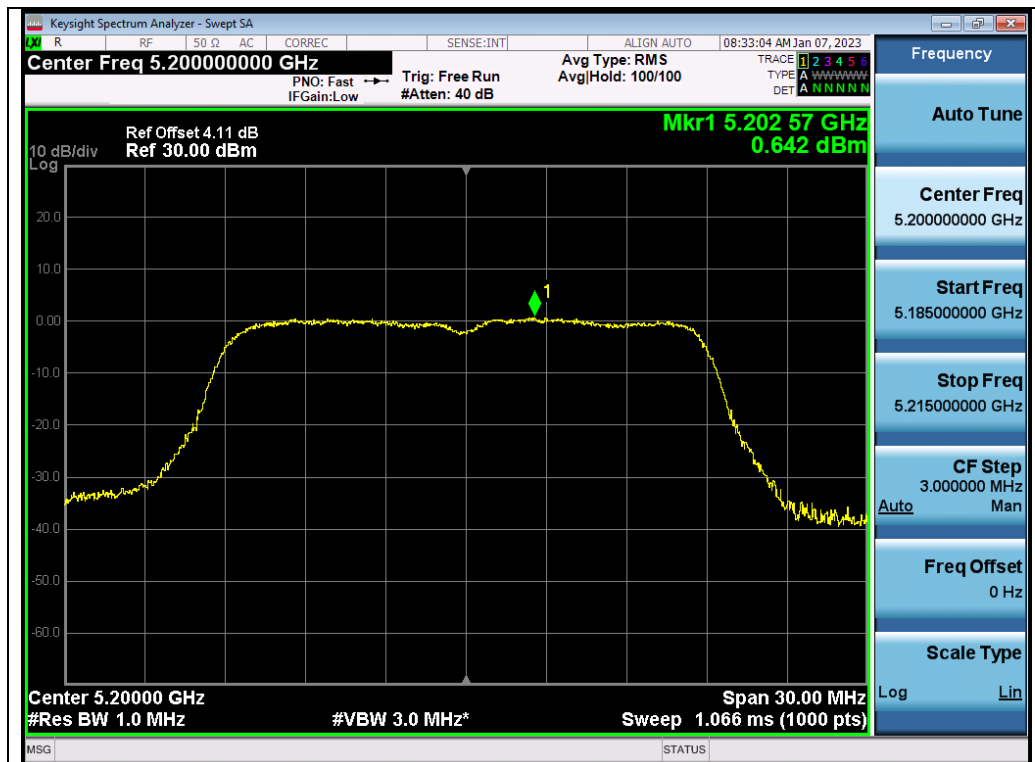


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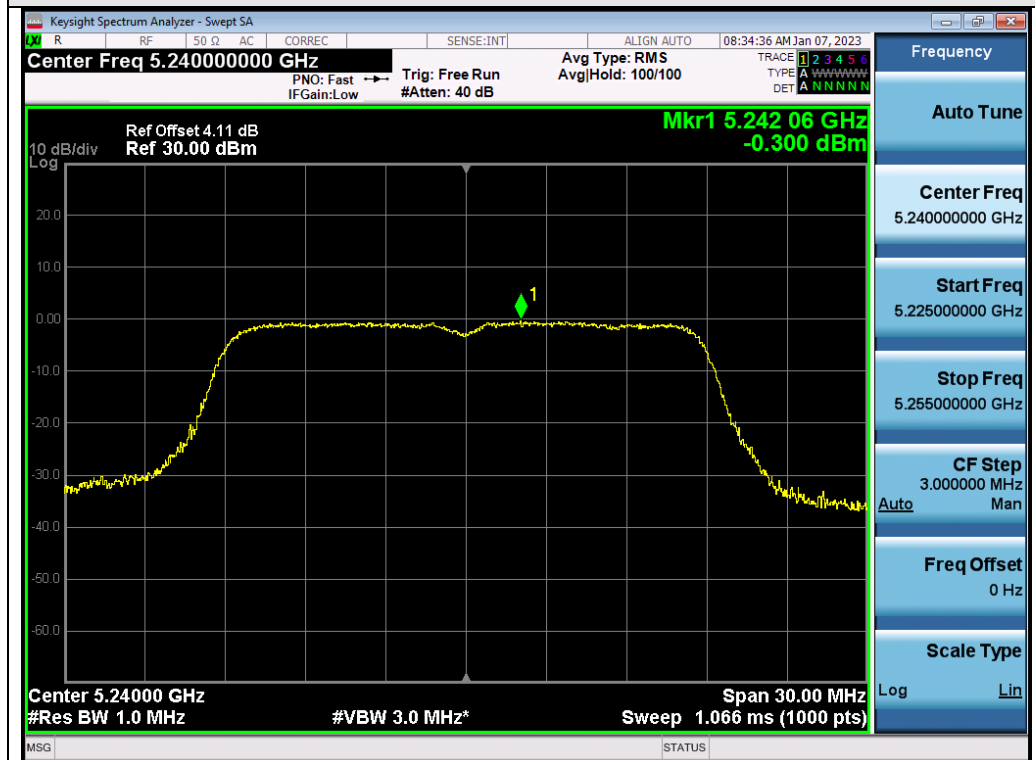


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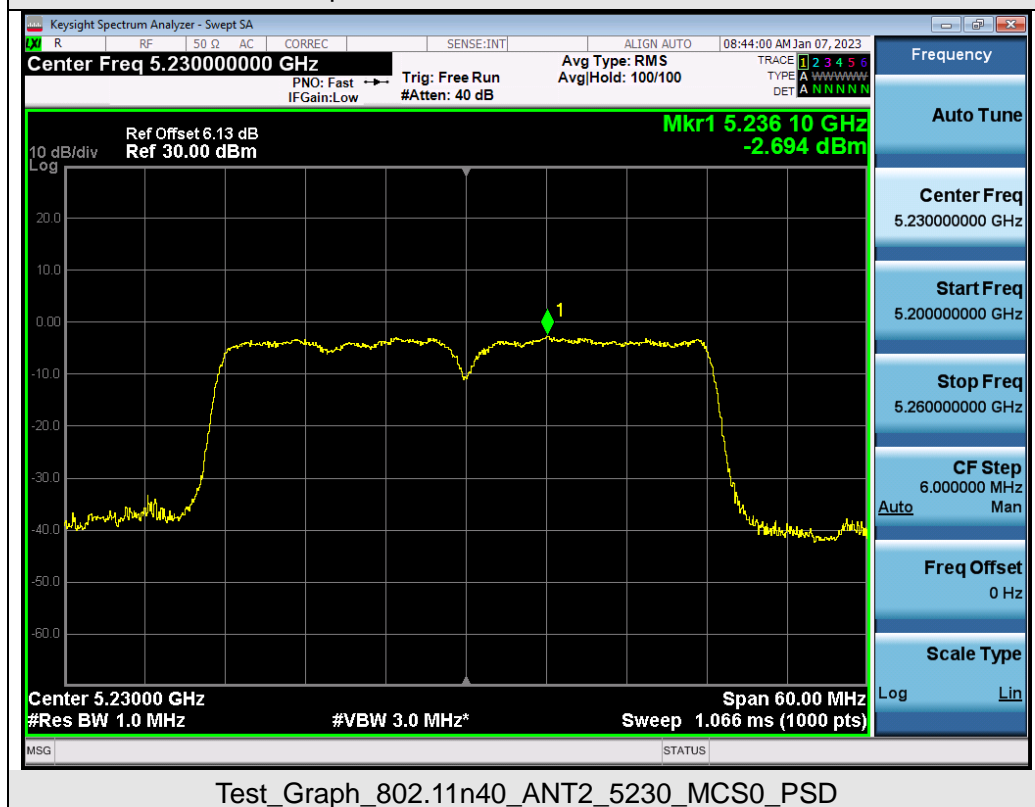
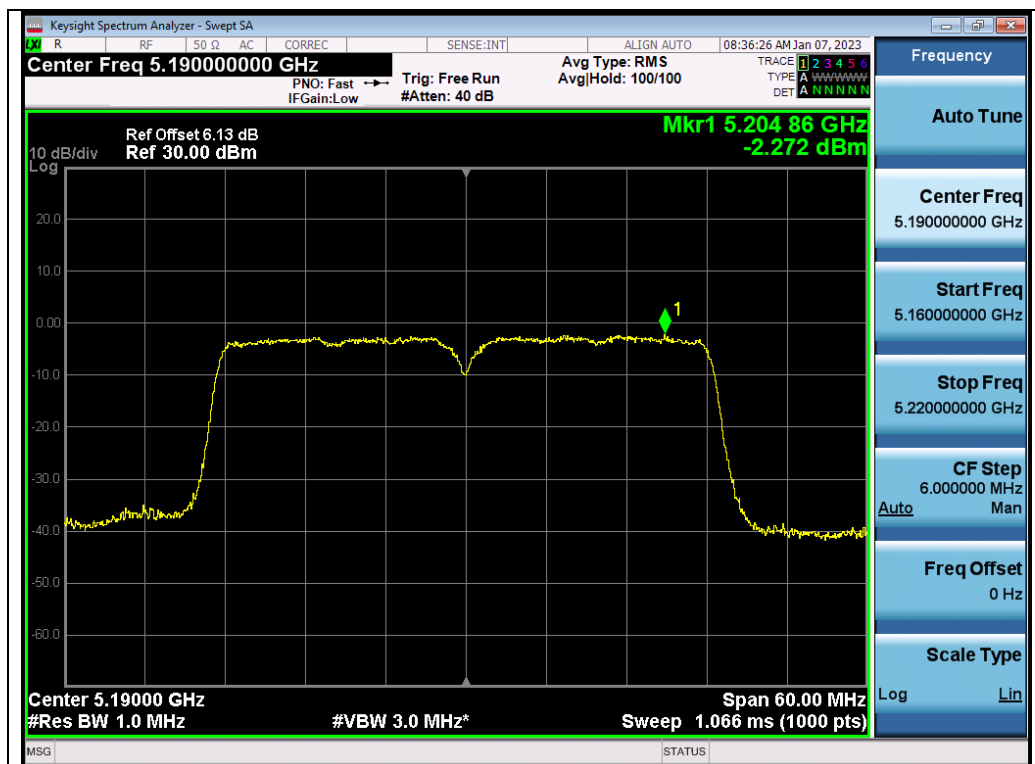


Test_Graph_802.11n20_ANT2_5200_MCS0_PSD



Test_Graph_802.11n20_ANT2_5240_MCS0_PSD

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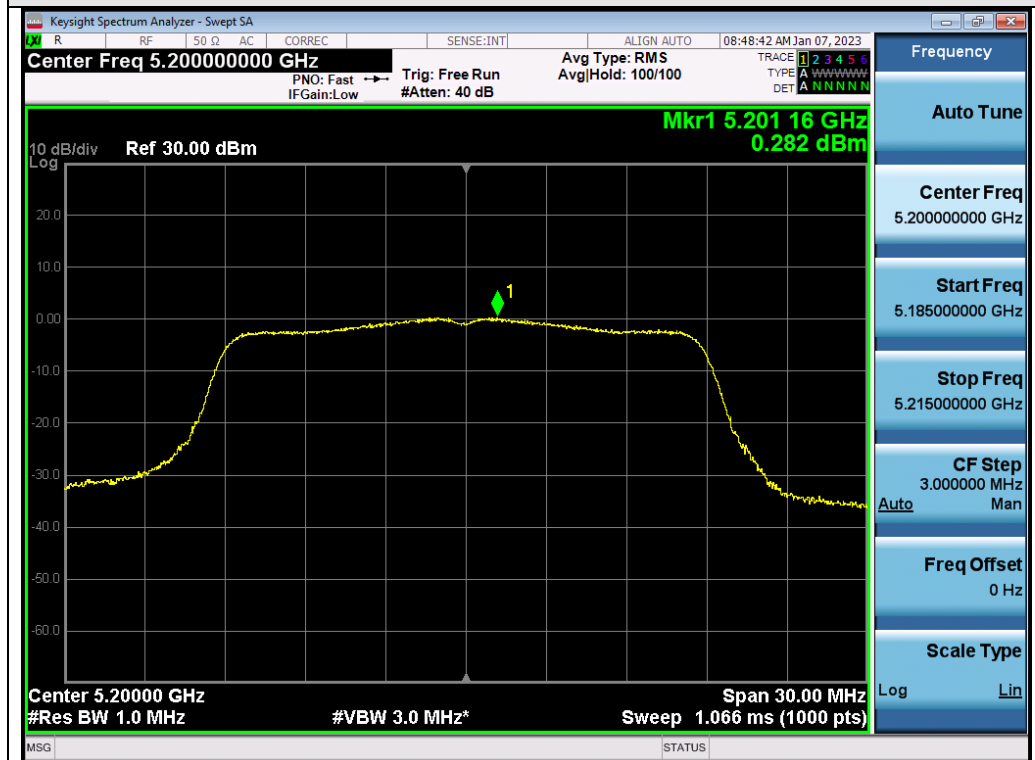


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Test_Graph_802.11ac20_ANT2_5180_MCS0_PSD



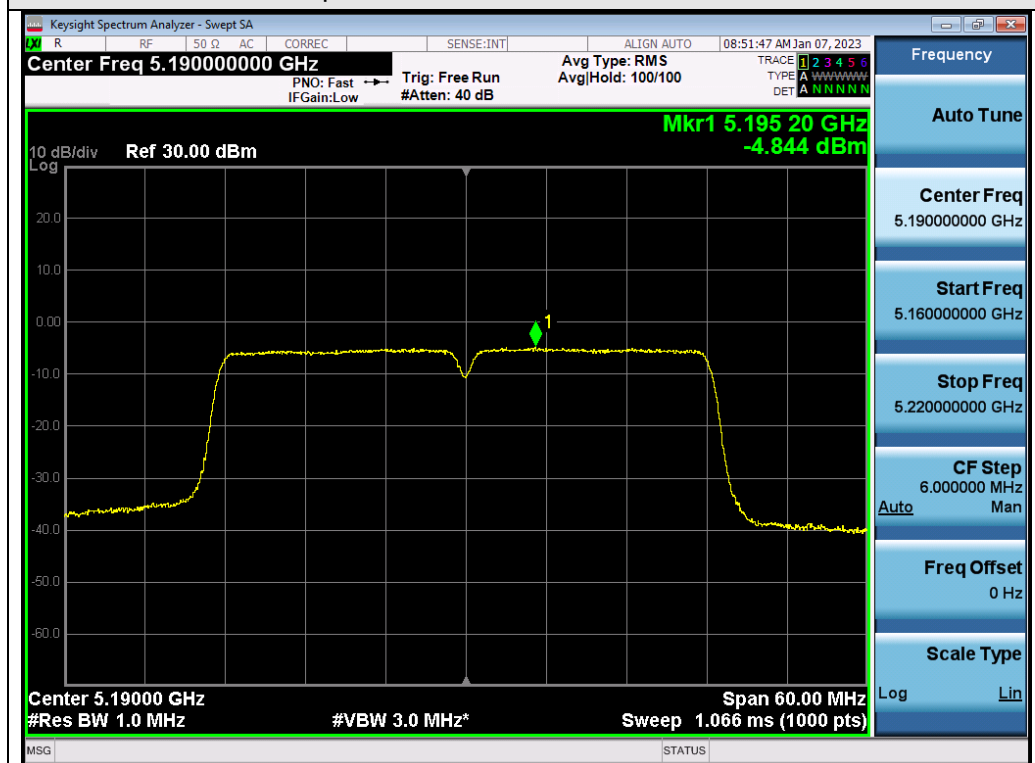
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Test_Graph_802.11ac20_ANT2_5240_MCS9_PSD



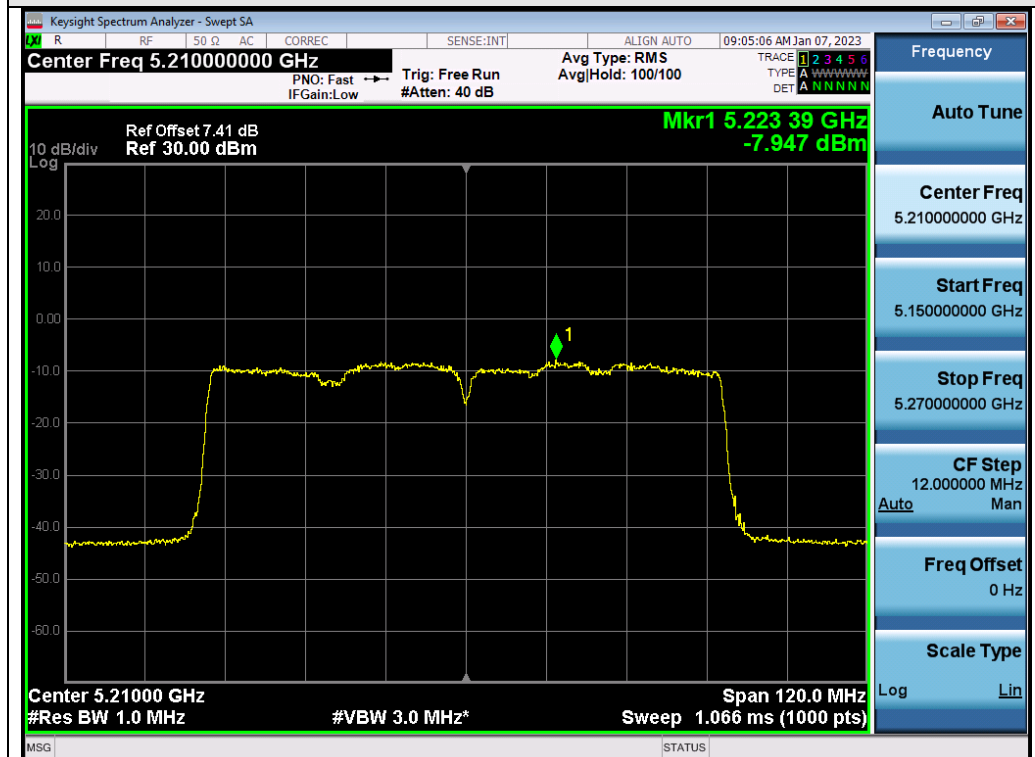
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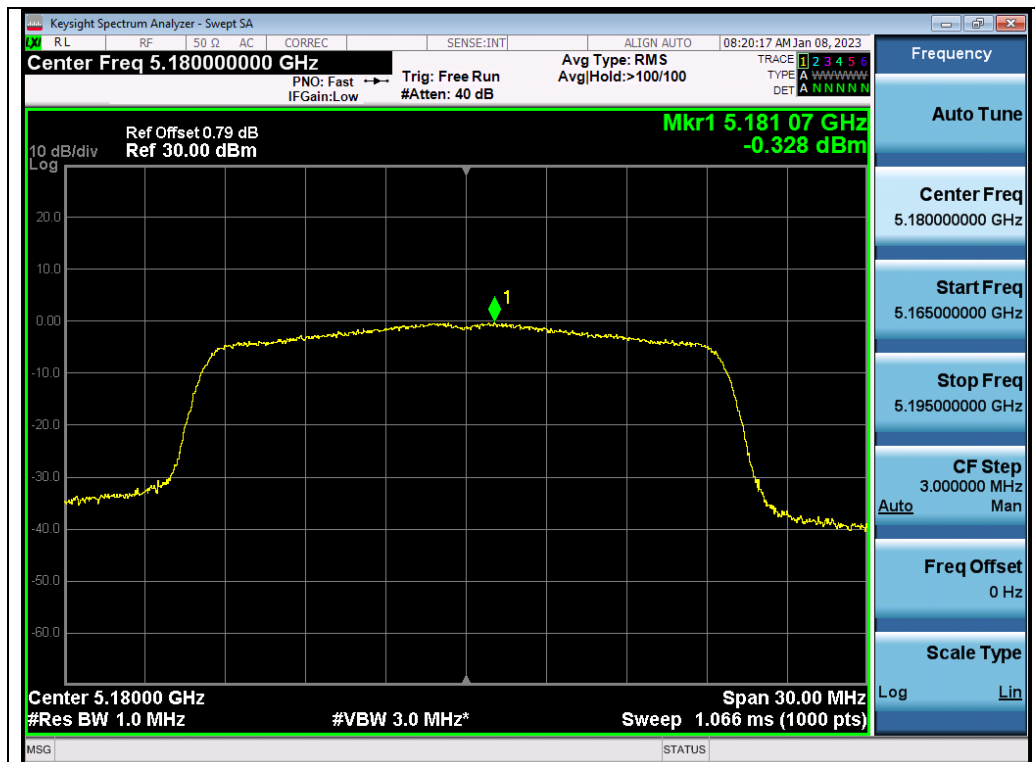
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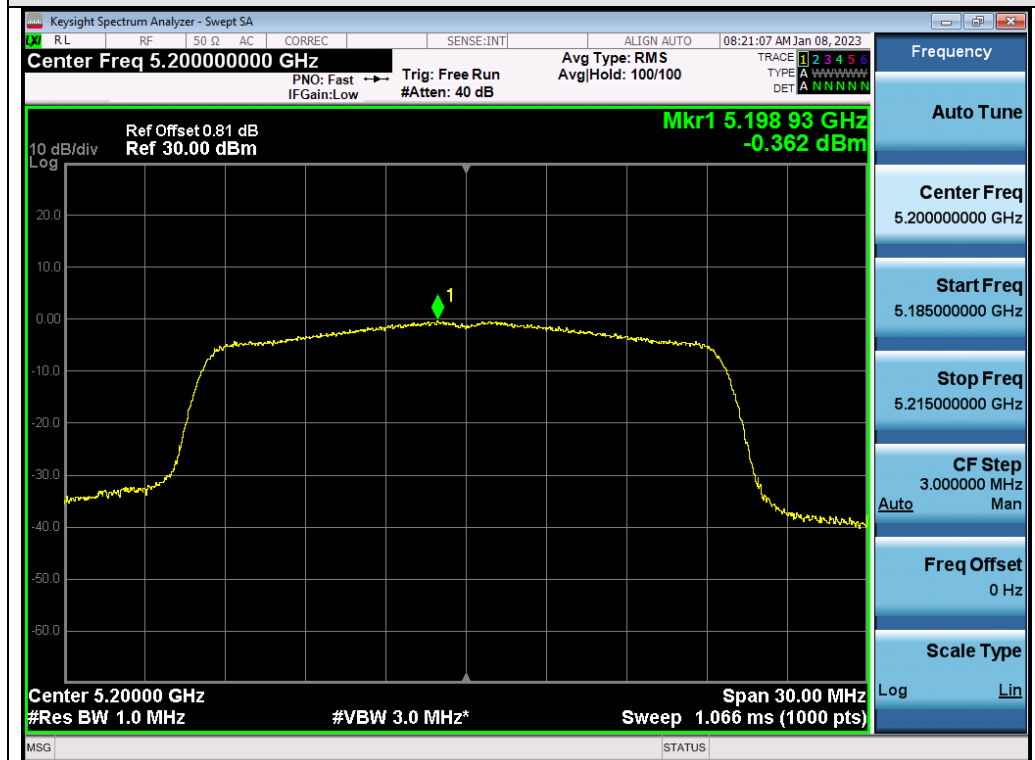
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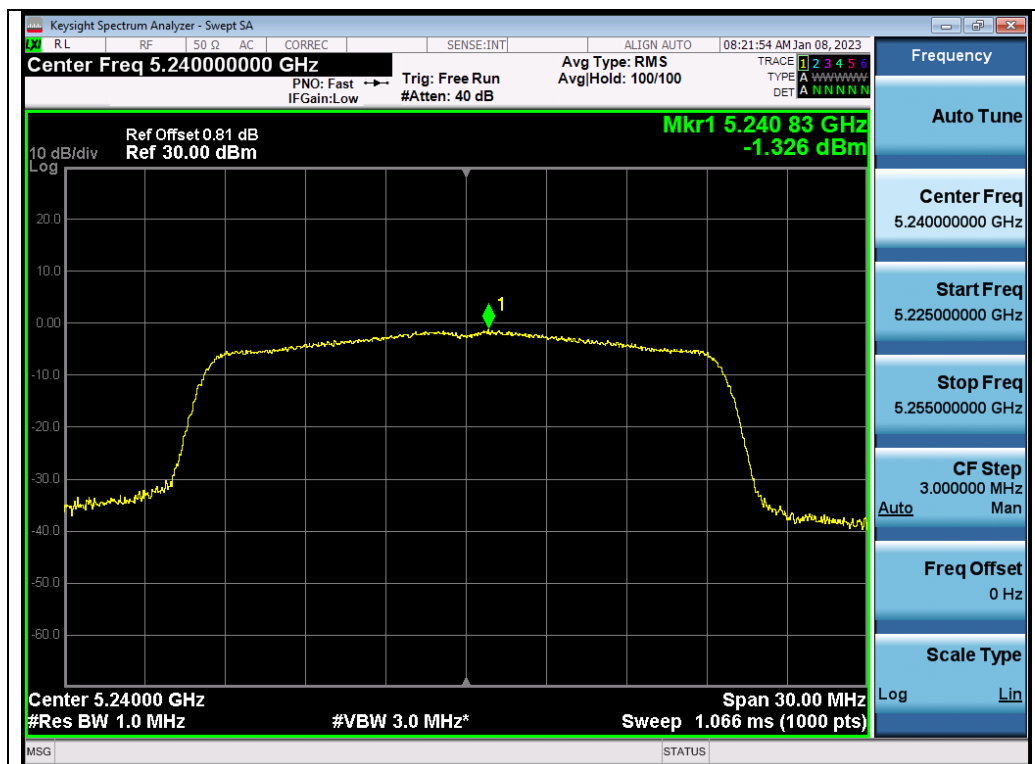


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Test_Graph_802.11ax20_ANT2_5200_MCS0_PSD

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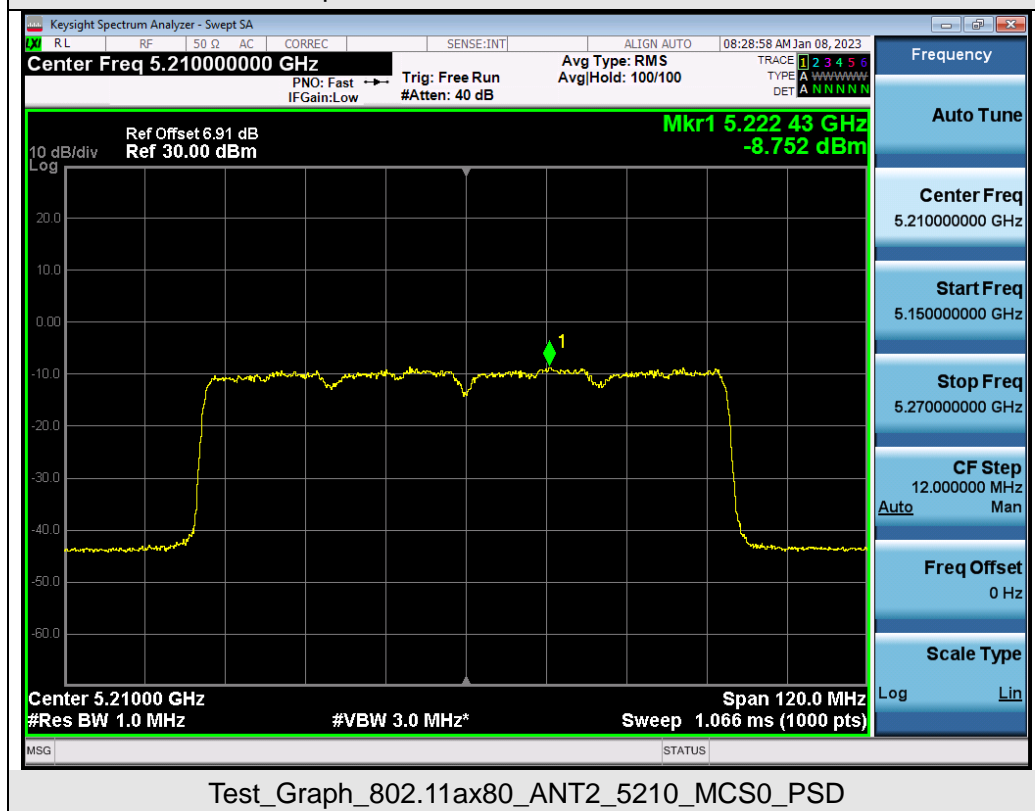


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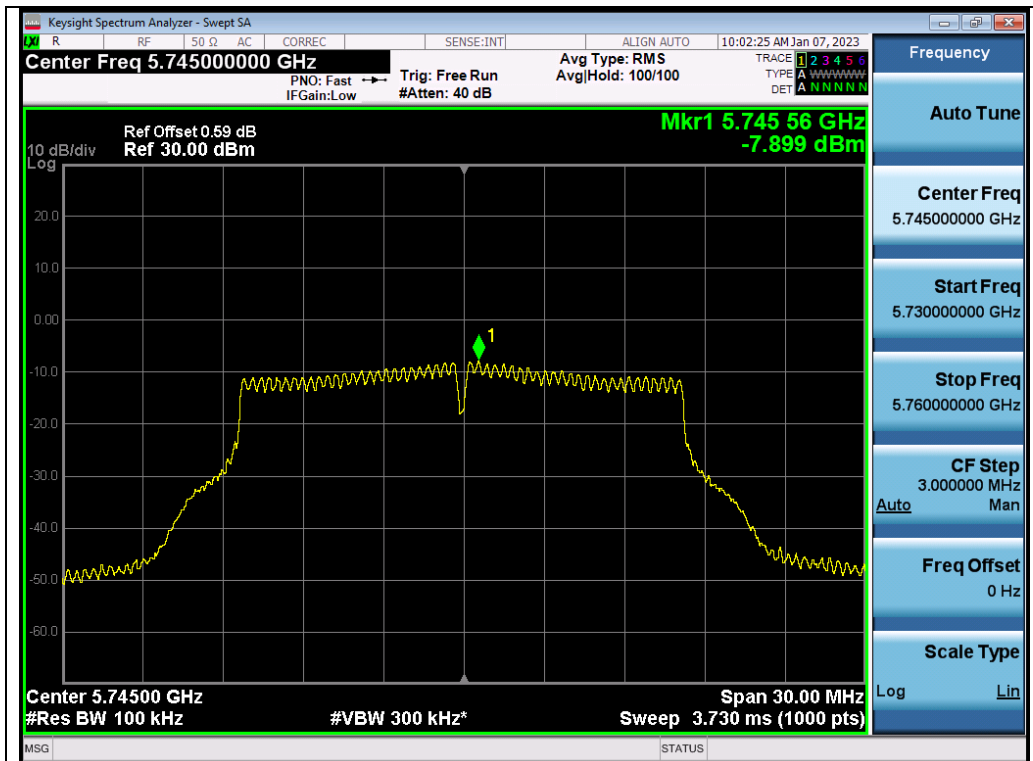
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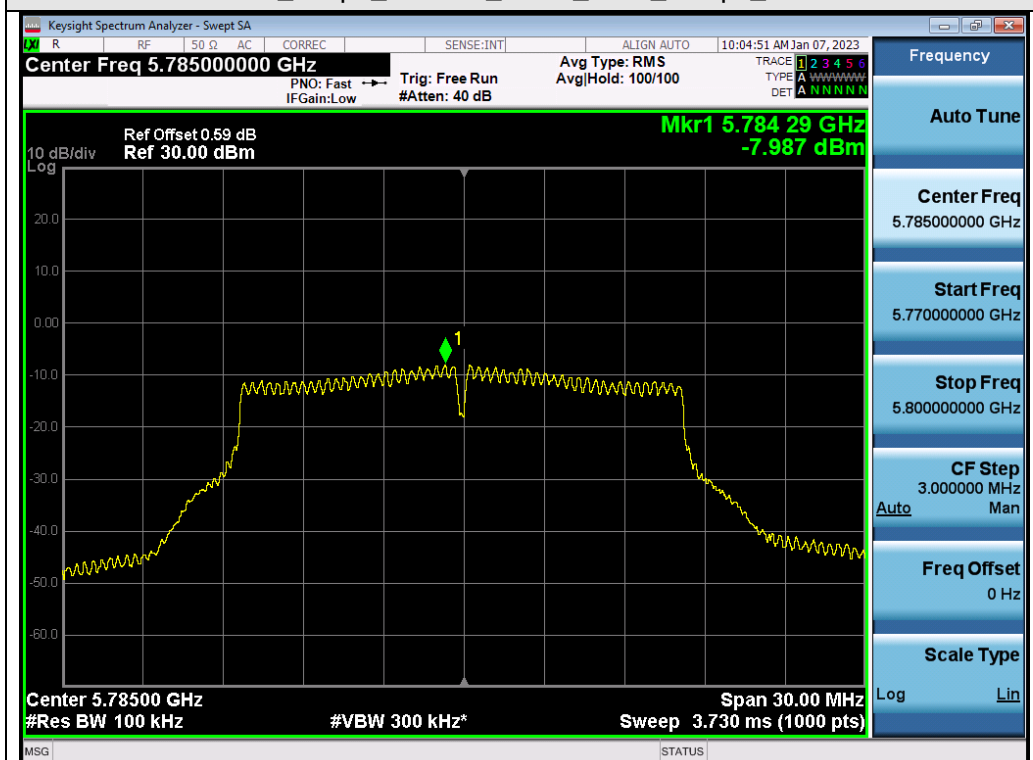
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

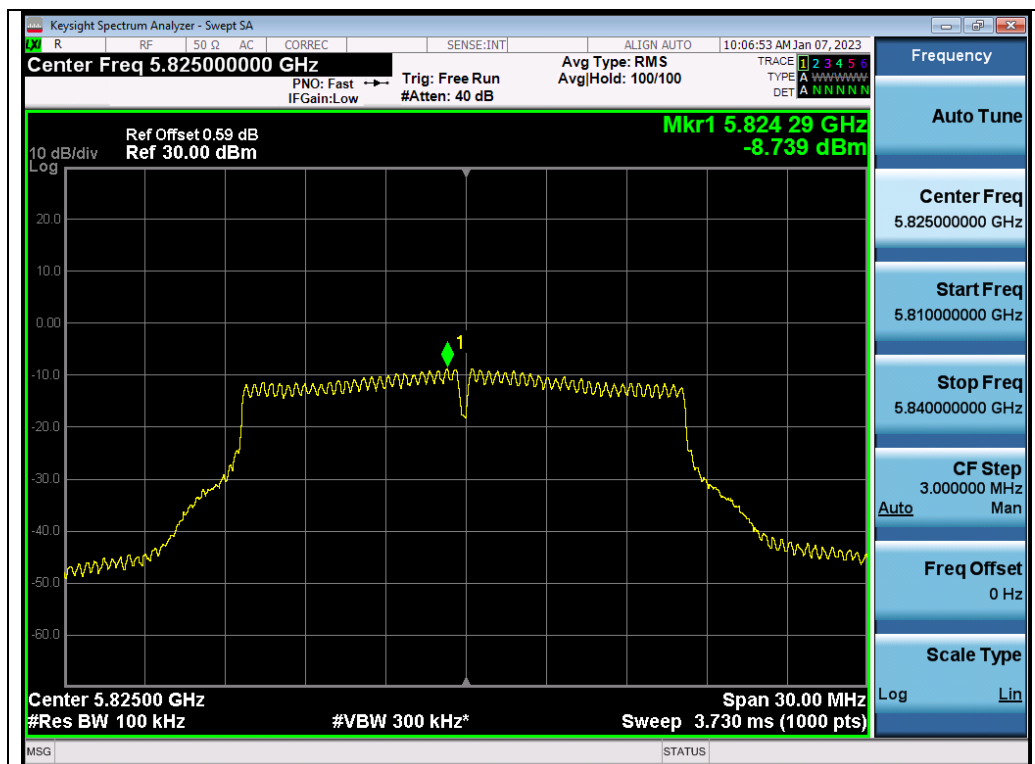


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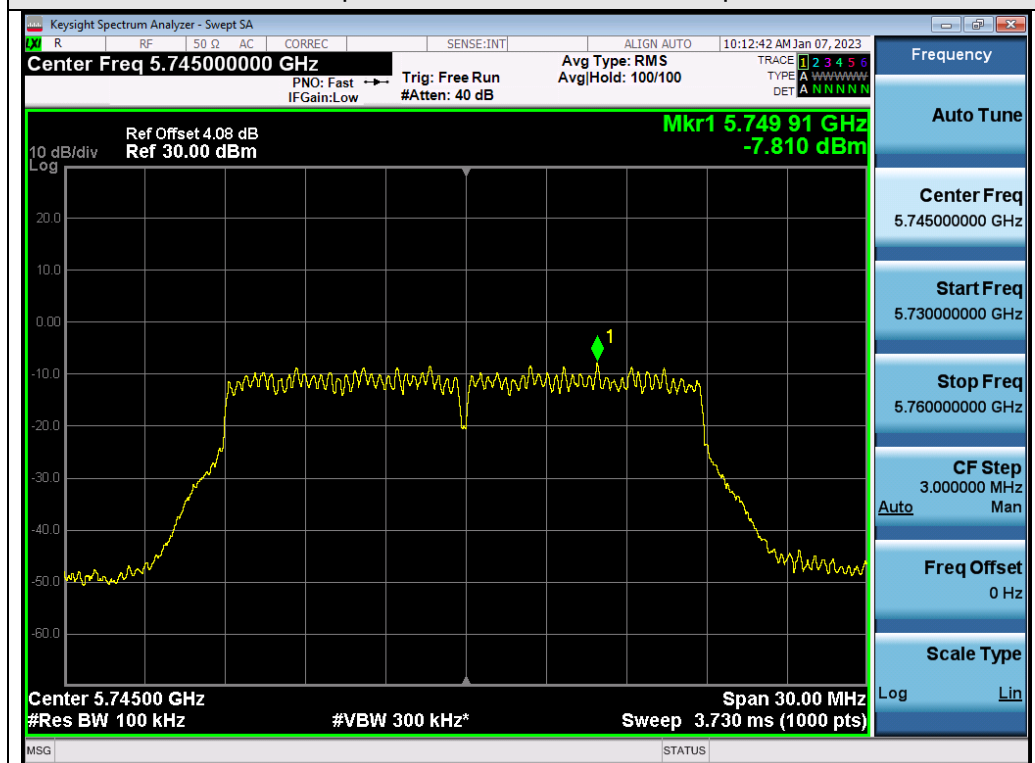


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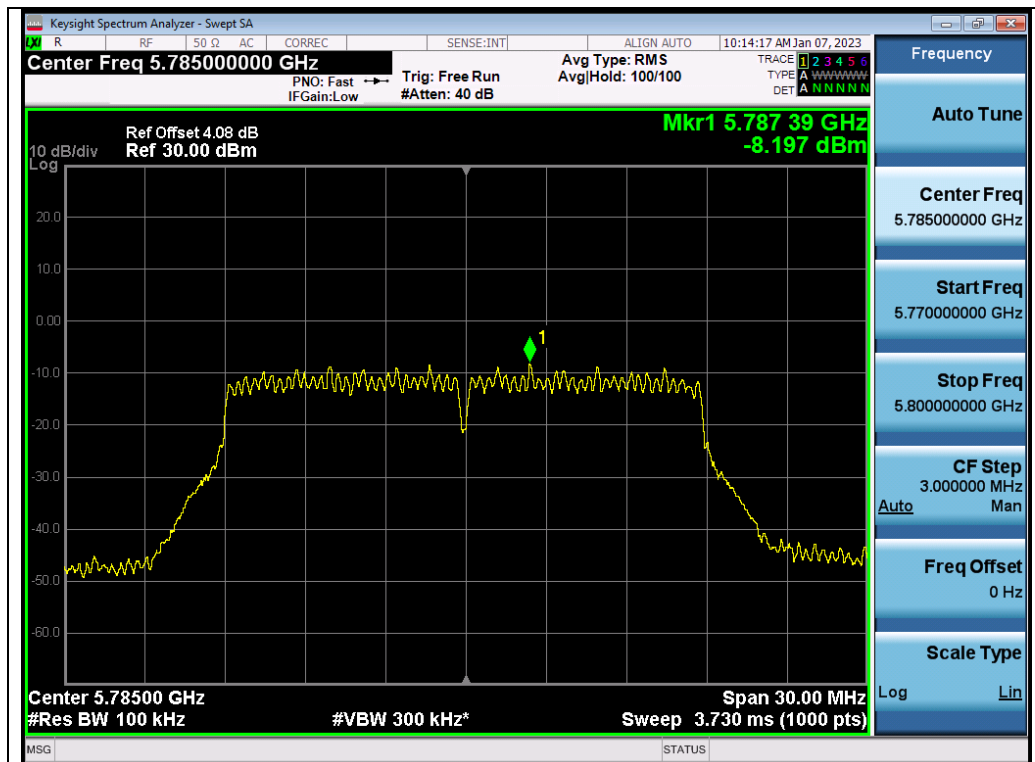


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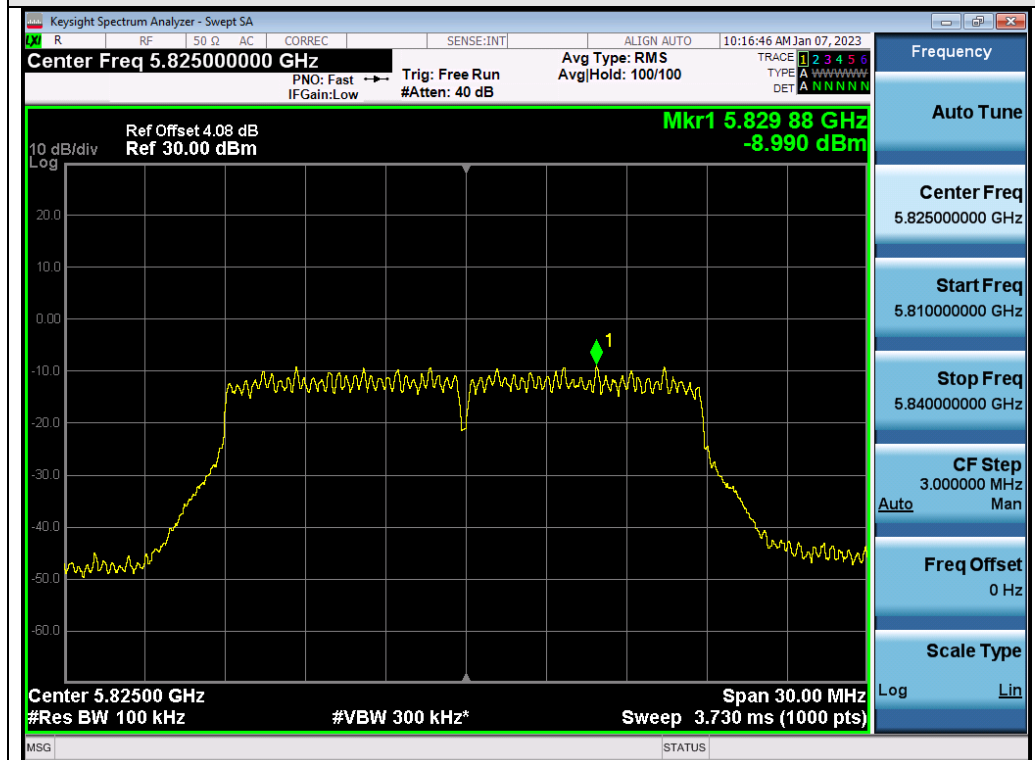


Test_Graph_802.11n20_ANT1_5745_MCS0_PSD

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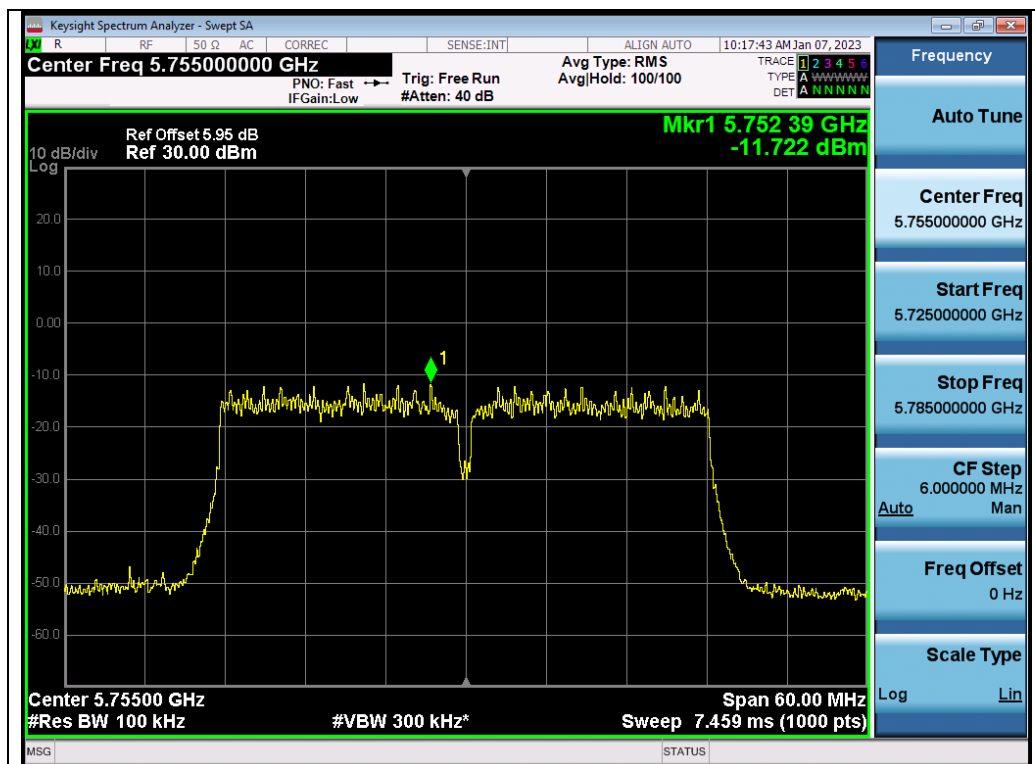


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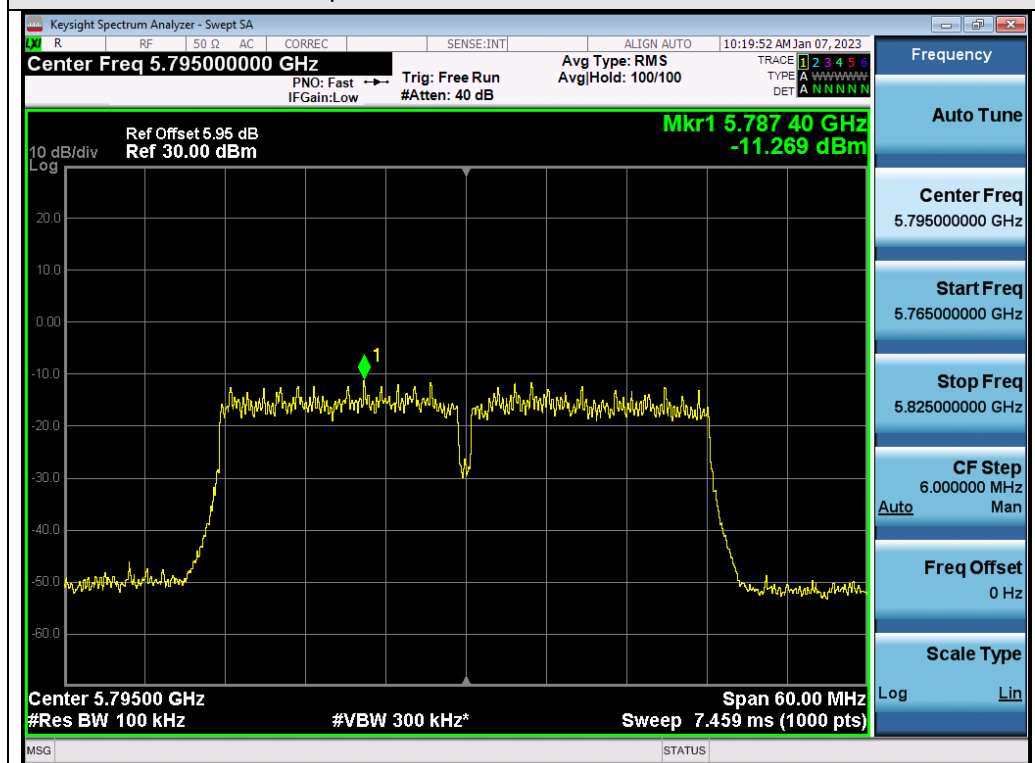


Test_Graph_802.11n20_ANT1_5825_MCS0_PSD

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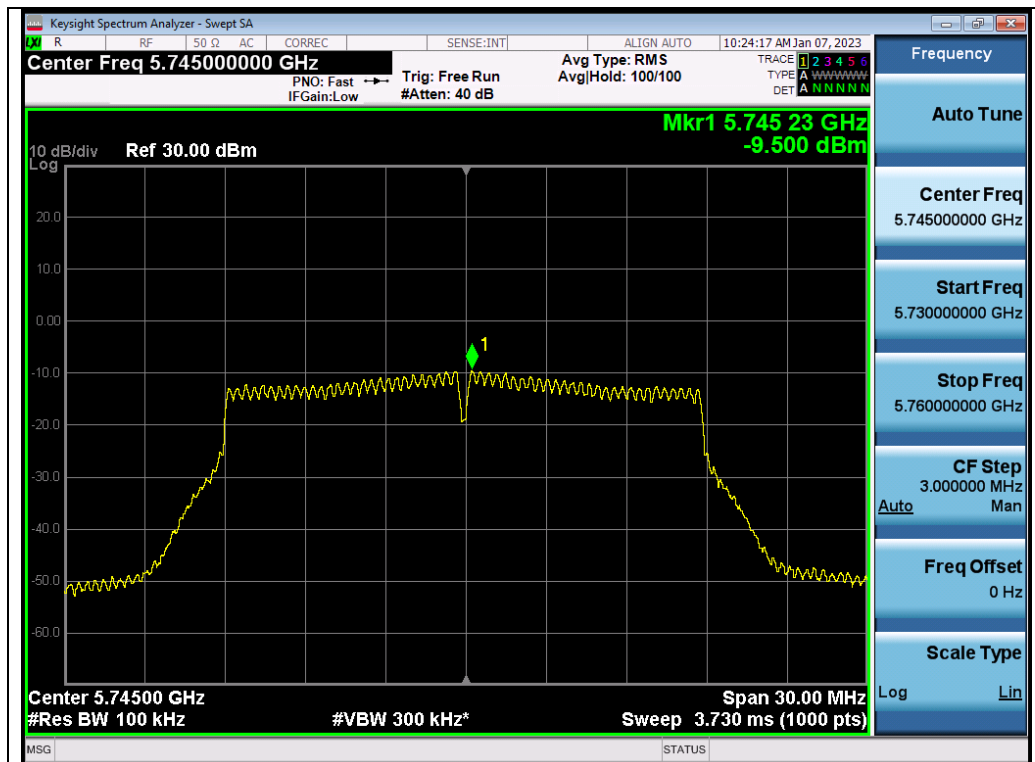


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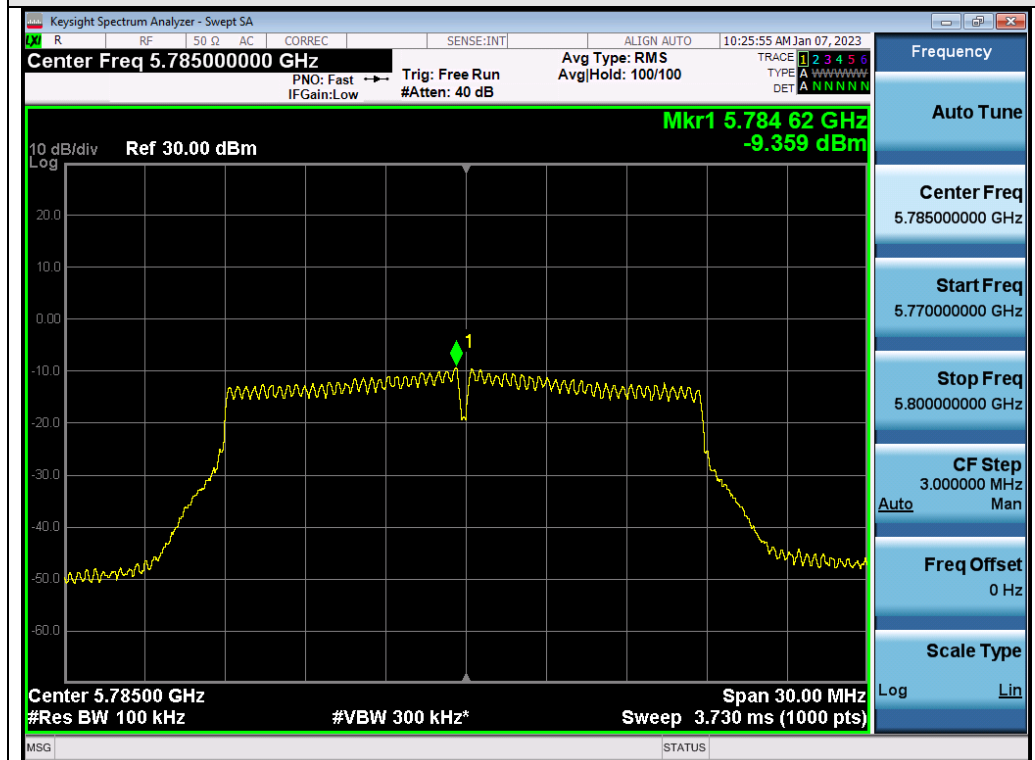


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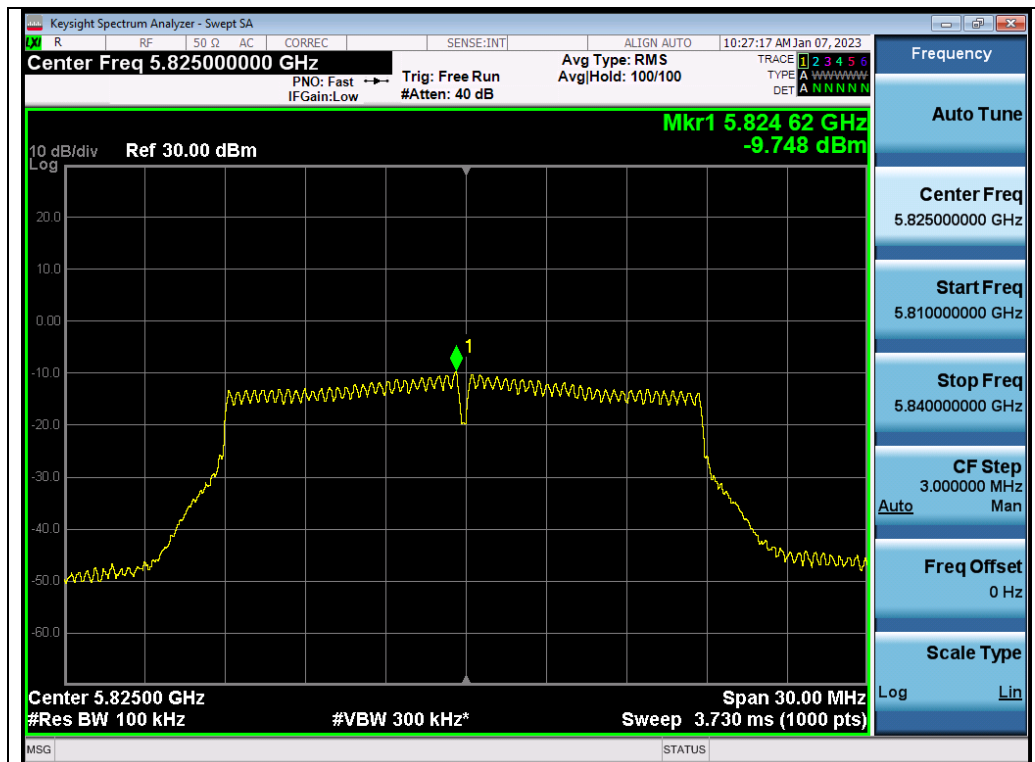


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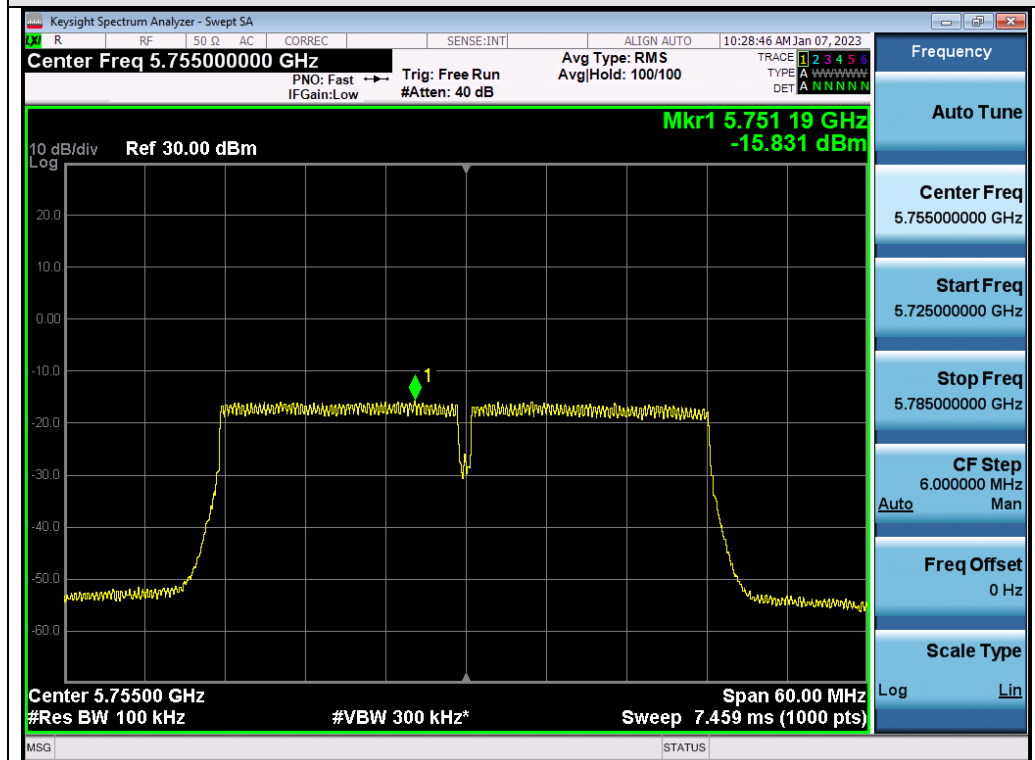


Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

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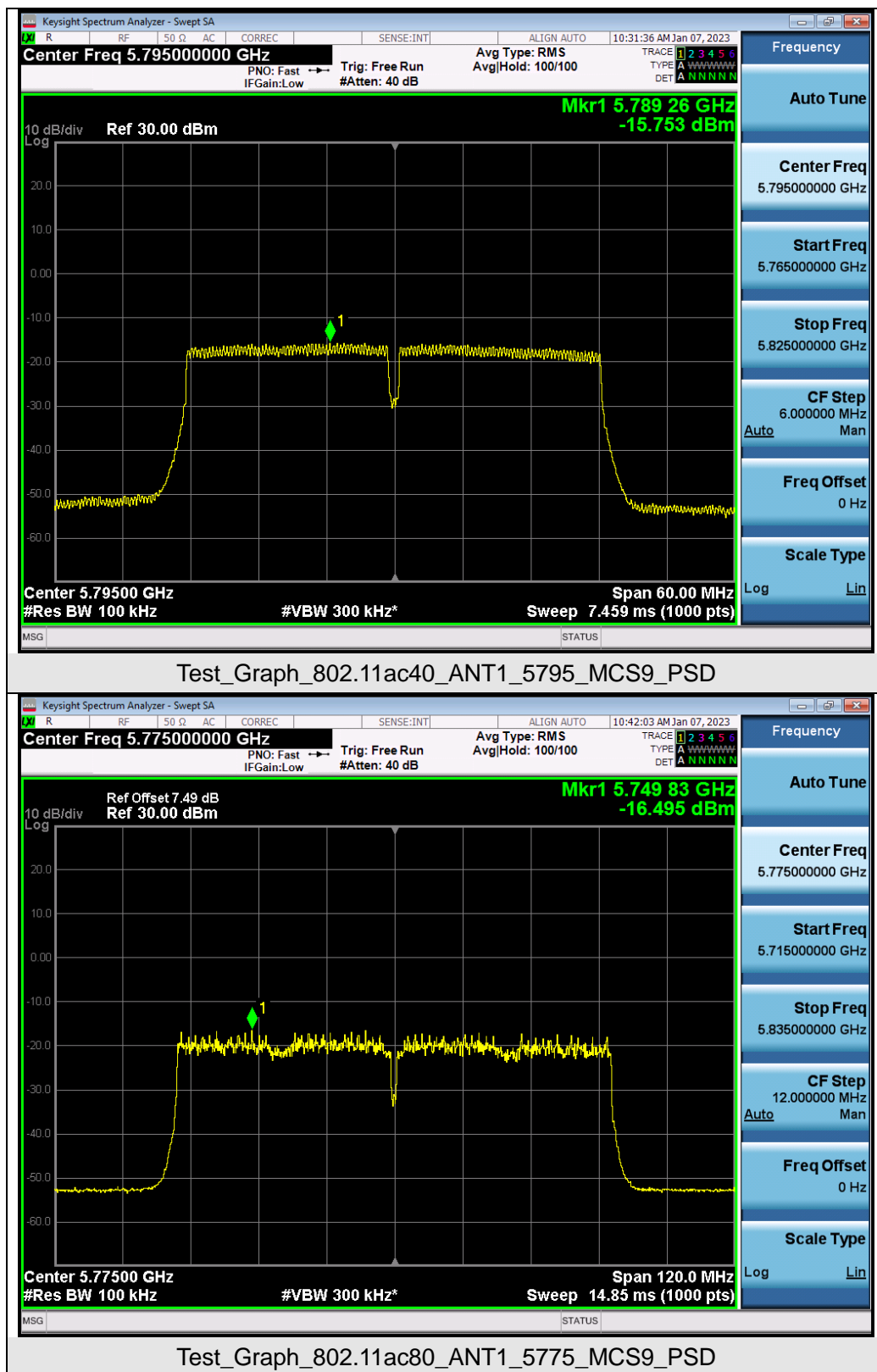


Test_Graph_802.11ac20_ANT1_5825_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD

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Test_Graph_802.11ax20_ANT1_5745_MCS0_PSD



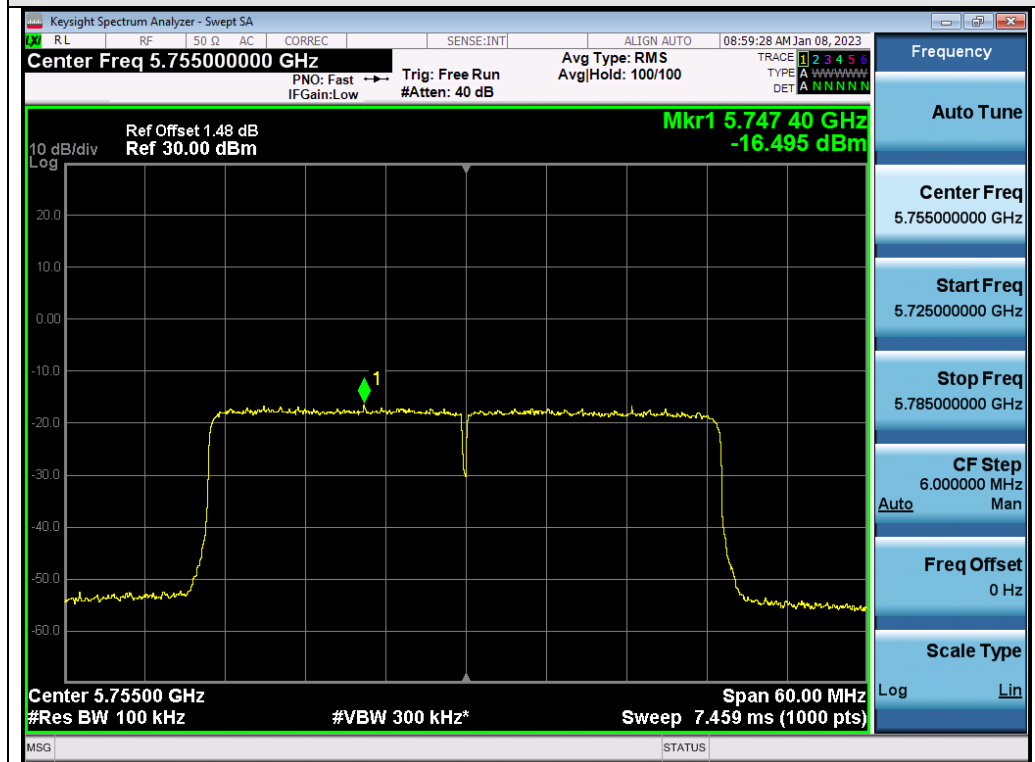
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