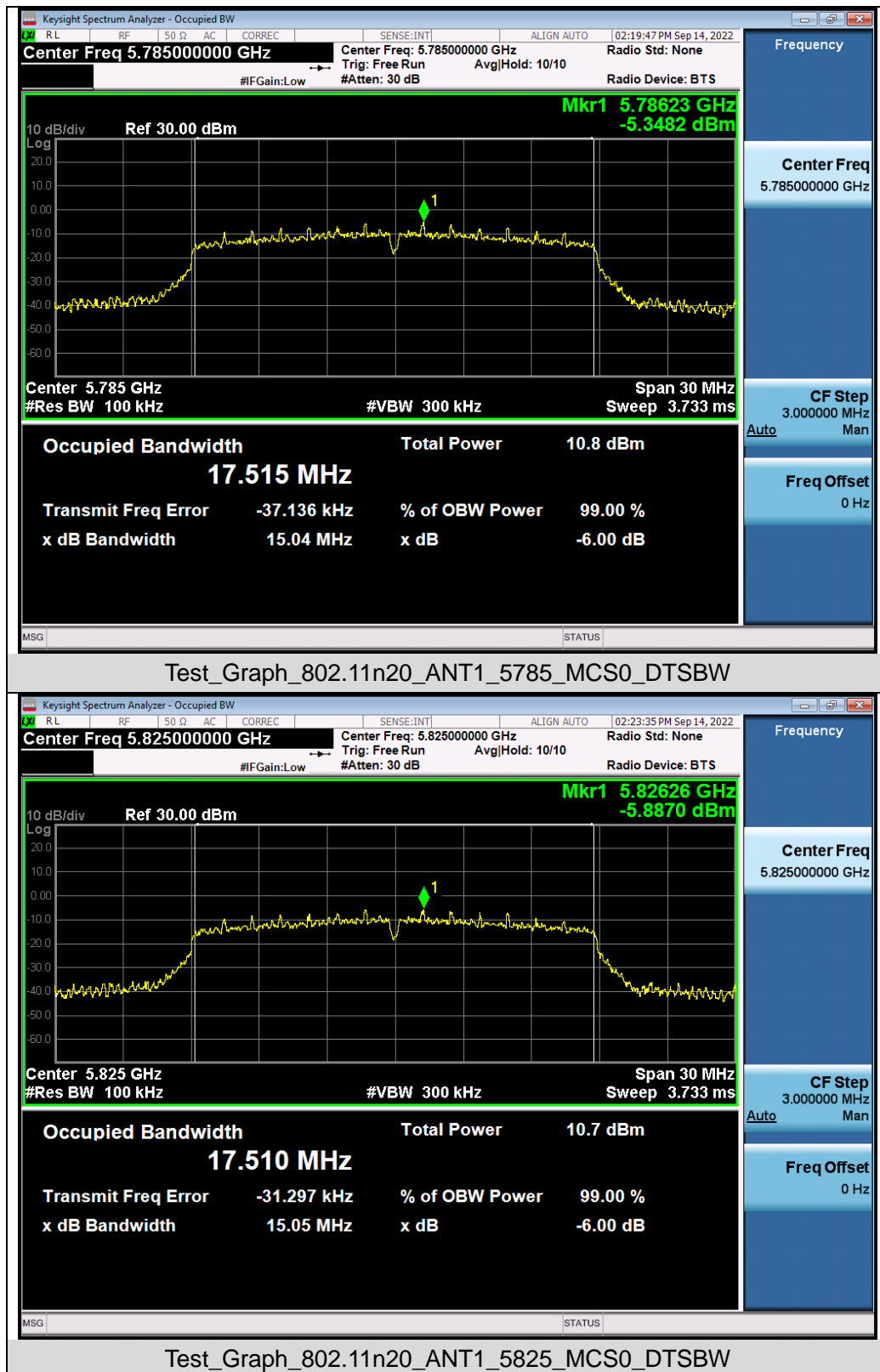
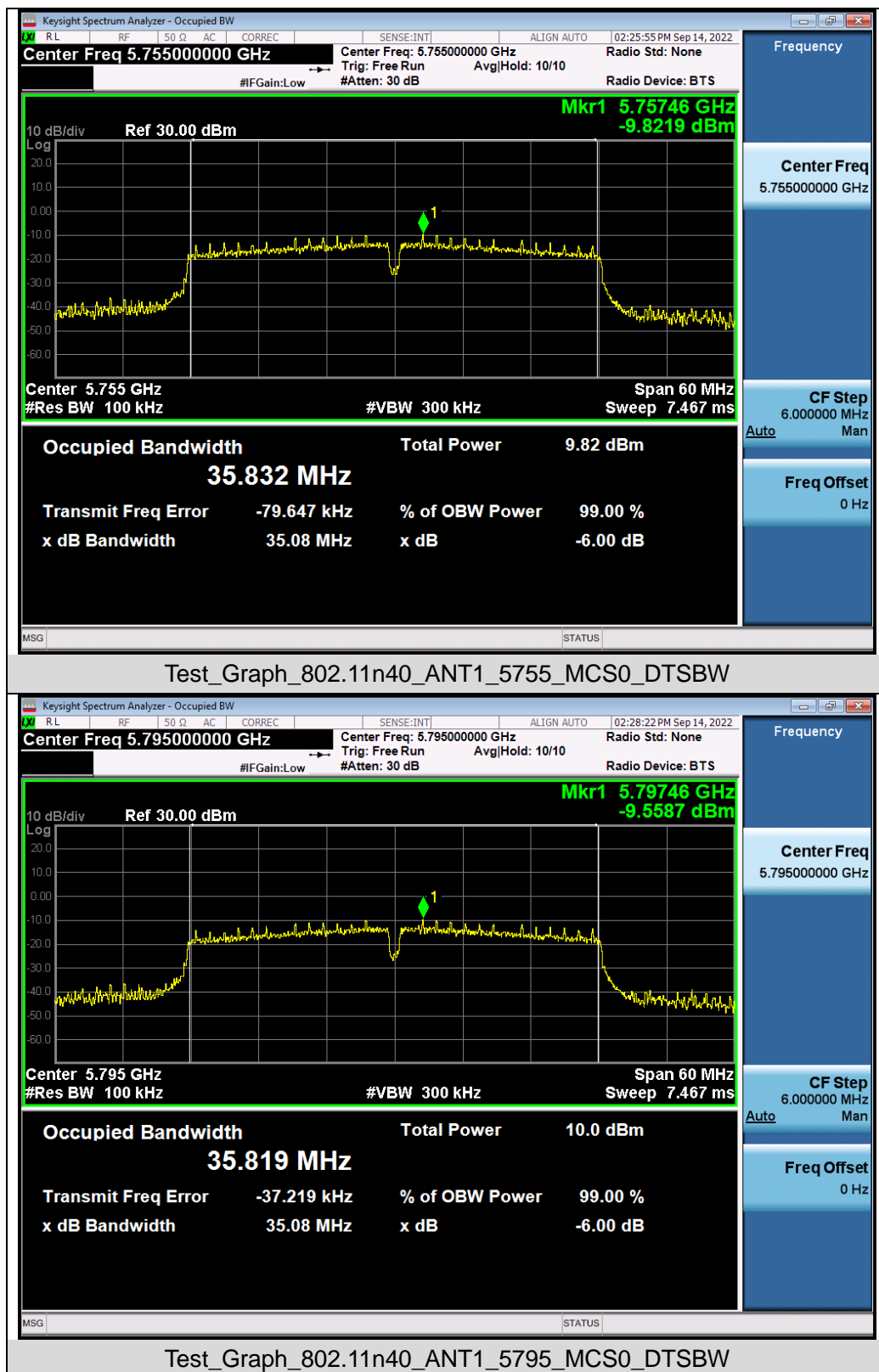


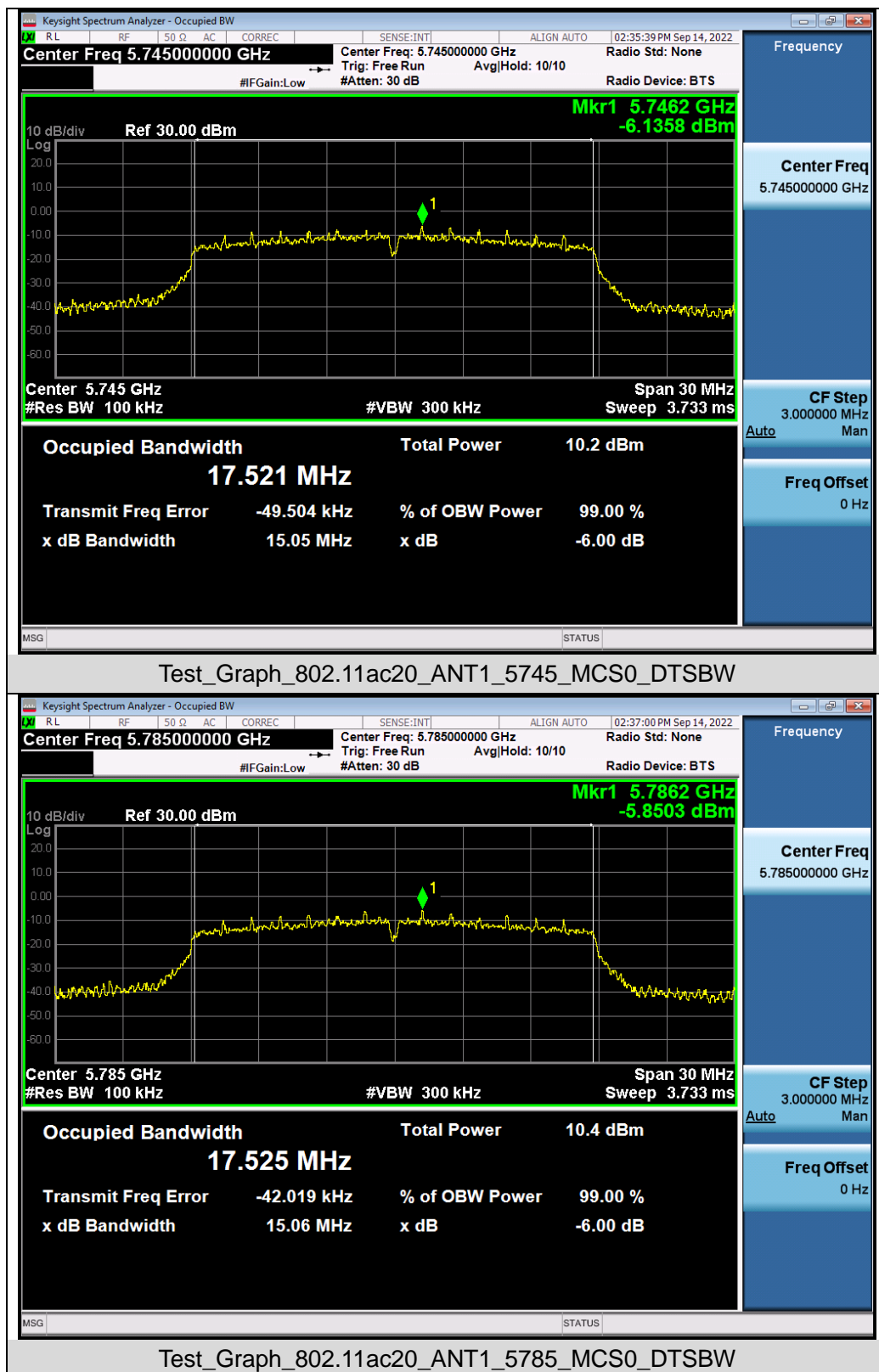
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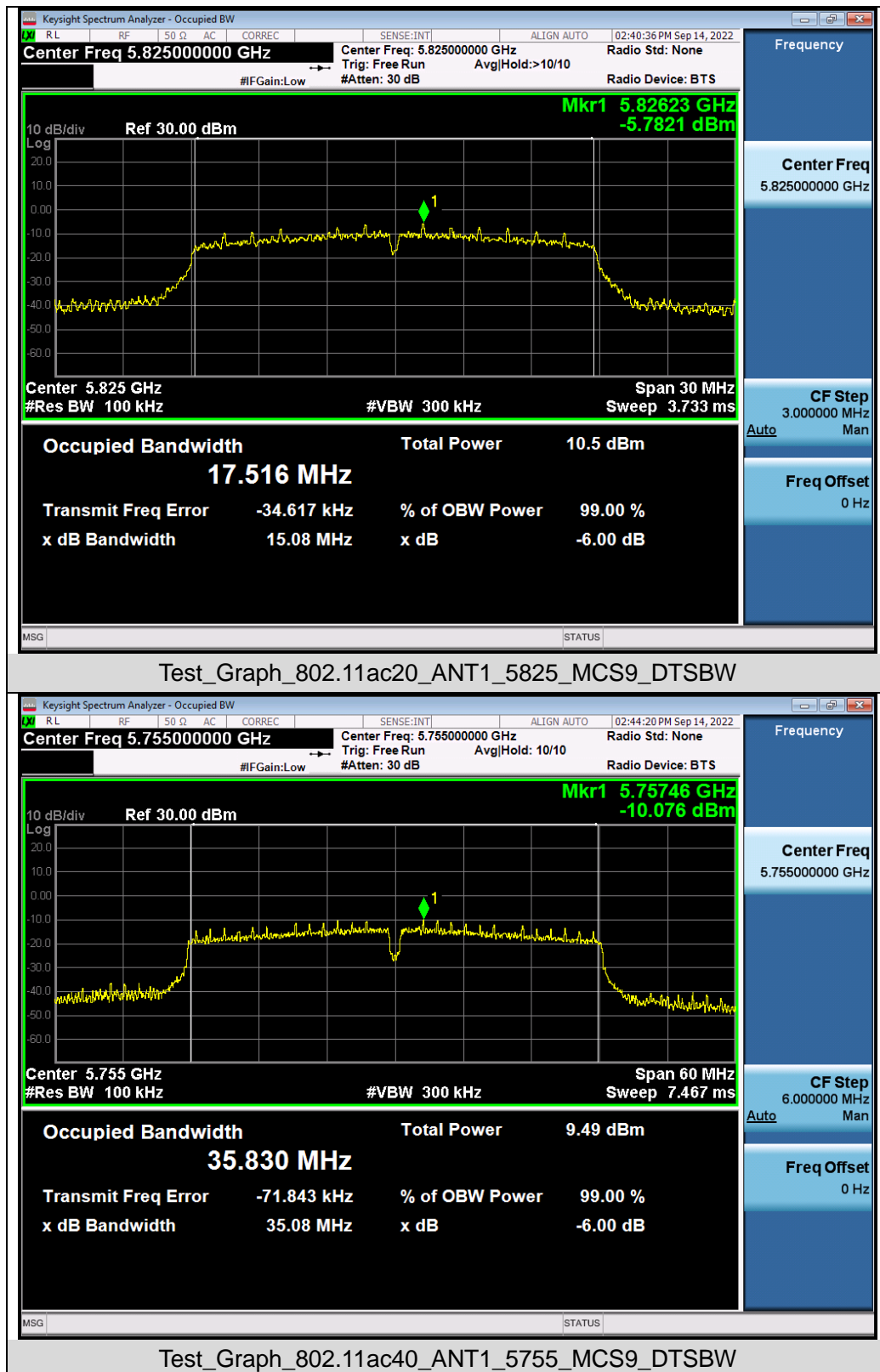
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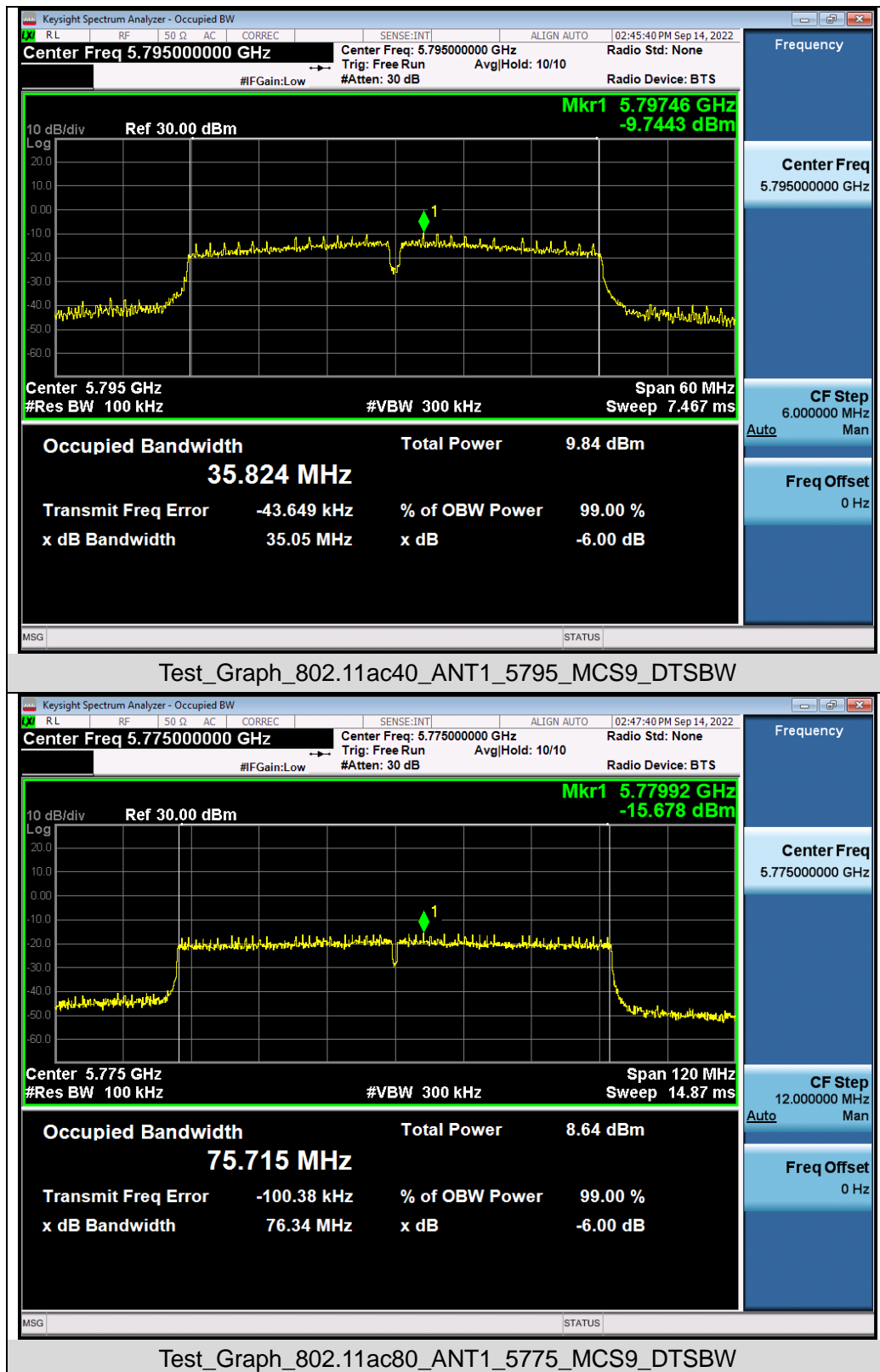
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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

9.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-ANT1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	-4.465	17	Pass
	5200	-4.926	17	Pass
	5240	-5.141	17	Pass
802.11n20	5180	-4.693	17	Pass
	5200	-5.130	17	Pass
	5240	-5.574	17	Pass
802.11n40	5190	-7.566	17	Pass
	5230	-8.947	17	Pass
802.11ac20	5180	-4.762	17	Pass
	5200	-5.881	17	Pass
	5240	-6.141	17	Pass
802.11ac40	5190	-8.188	17	Pass
	5230	-8.751	17	Pass
802.11ac80	5210	-12.378	17	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-ANT2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	-4.710	17	Pass
	5200	-4.952	17	Pass
	5240	-5.059	17	Pass
802.11n20	5180	-5.181	17	Pass
	5200	-5.272	17	Pass
	5240	-5.281	17	Pass
802.11n40	5190	-8.192	17	Pass
	5230	-8.407	17	Pass
802.11ac20	5180	-5.364	17	Pass
	5200	-5.524	17	Pass
	5240	-5.646	17	Pass
802.11ac40	5190	-8.147	17	Pass
	5230	-8.686	17	Pass
802.11ac80	5210	-12.248	17	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.673	30	Pass
	5785	-6.679	30	Pass
	5825	-6.768	30	Pass
802.11n20	5745	-6.846	30	Pass
	5785	-6.752	30	Pass
	5825	-6.724	30	Pass
802.11n40	5755	-10.039	30	Pass
	5795	-10.097	30	Pass
802.11ac20	5745	-7.271	30	Pass
	5785	-7.310	30	Pass
	5825	-7.526	30	Pass
802.11ac40	5755	-10.669	30	Pass
	5795	-10.626	30	Pass
802.11ac80	5775	-14.205	30	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-ANT2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.787	30	Pass
	5785	-6.580	30	Pass
	5825	-6.902	30	Pass
802.11n20	5745	-7.116	30	Pass
	5785	-6.739	30	Pass
	5825	-6.938	30	Pass
802.11n40	5755	-10.459	30	Pass
	5795	-10.394	30	Pass
802.11ac20	5745	-7.286	30	Pass
	5785	-6.983	30	Pass
	5825	-7.081	30	Pass
802.11ac40	5755	-10.717	30	Pass
	5795	-10.890	30	Pass
802.11ac80	5775	-13.854	30	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz- ANT 1+ANT 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	N/A	17	Pass
	5200	N/A	17	Pass
	5240	N/A	17	Pass
802.11n20	5180	-1.92	17	Pass
	5200	-2.19	17	Pass
	5240	-2.41	17	Pass
802.11n40	5190	-4.86	17	Pass
	5230	-5.66	17	Pass
802.11ac20	5180	-2.04	17	Pass
	5200	-2.69	17	Pass
	5240	-2.88	17	Pass
802.11ac40	5190	-5.16	17	Pass
	5230	-5.71	17	Pass
802.11ac80	5210	-9.30	17	Pass

Note: The 802.11a mode can't support MIMO.

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz- ANT 1+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	N/A	N/A	30	Pass
	5785	N/A	N/A	30	Pass
	5825	N/A	N/A	30	Pass
802.11n20	5745	3.07	-3.97	30	Pass
	5785	0.86	-3.74	30	Pass
	5825	0.90	-3.82	30	Pass
802.11n40	5755	-2.15	-7.23	30	Pass
	5795	-2.01	-7.23	30	Pass
802.11ac20	5745	0.93	-4.27	30	Pass
	5785	0.16	-4.13	30	Pass
	5825	0.40	-4.29	30	Pass
802.11ac40	5755	-2.66	-7.68	30	Pass
	5795	-2.43	-7.75	30	Pass
802.11ac80	5775	-5.93	-11.02	30	Pass

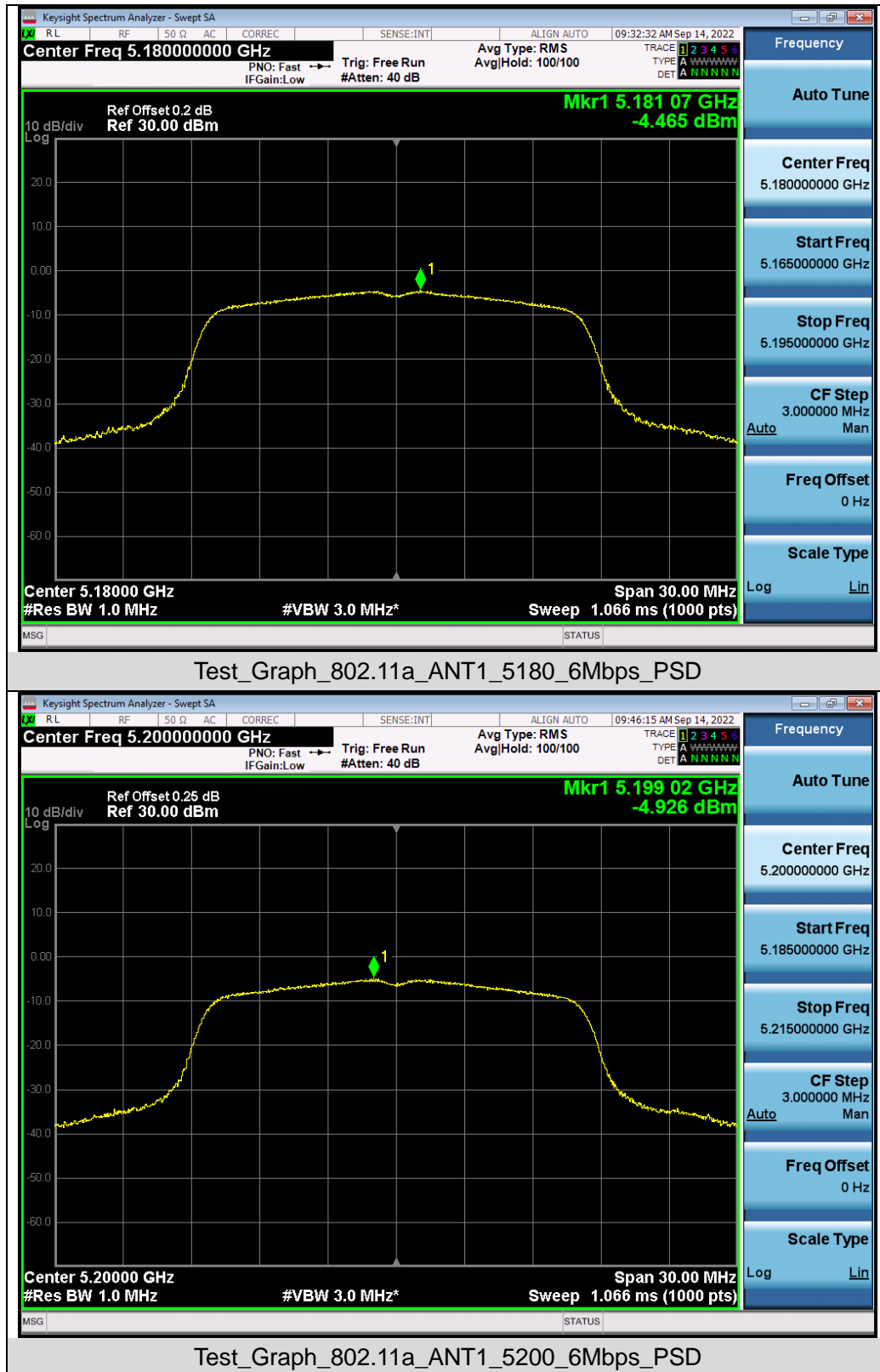
Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

2.The Total PSD (dBm/500kHz) = $10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)} + 10^{(\text{Ant 4 PSD}/10)}$ (dBm/500kHz)

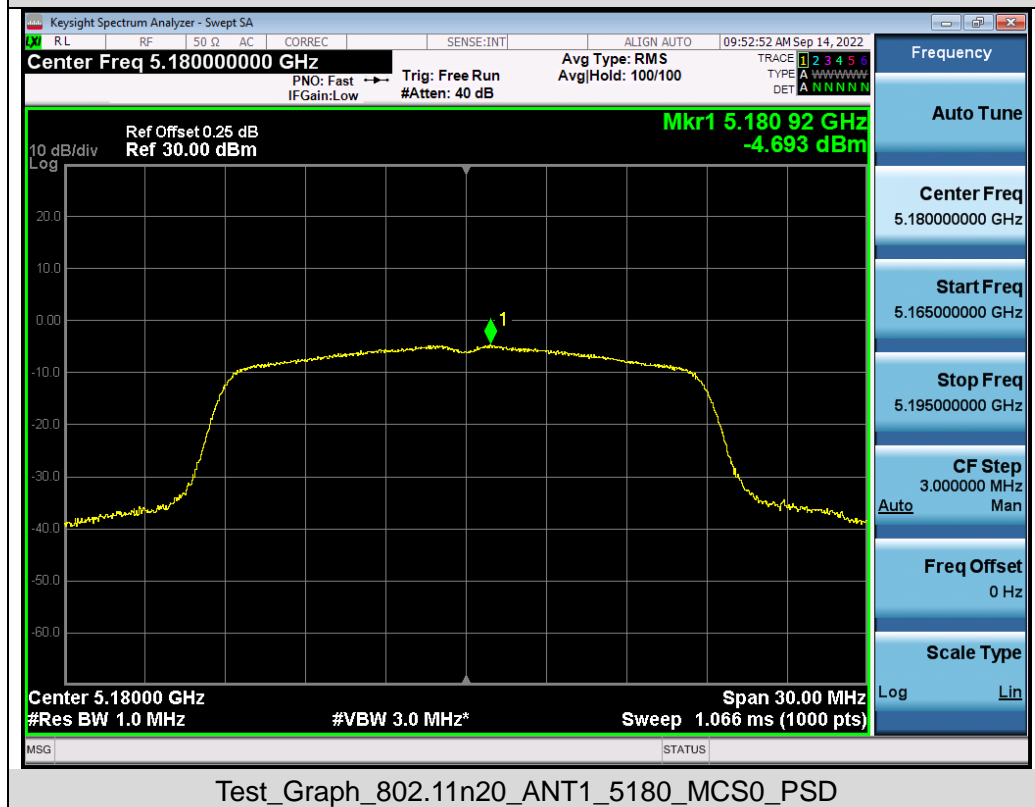
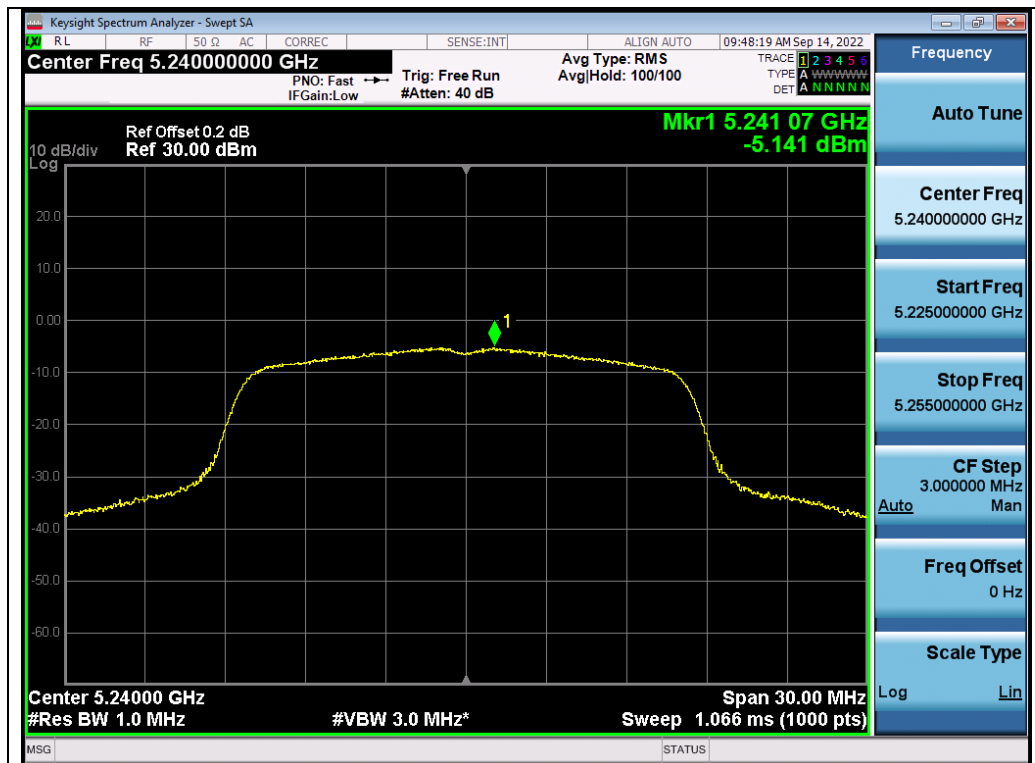
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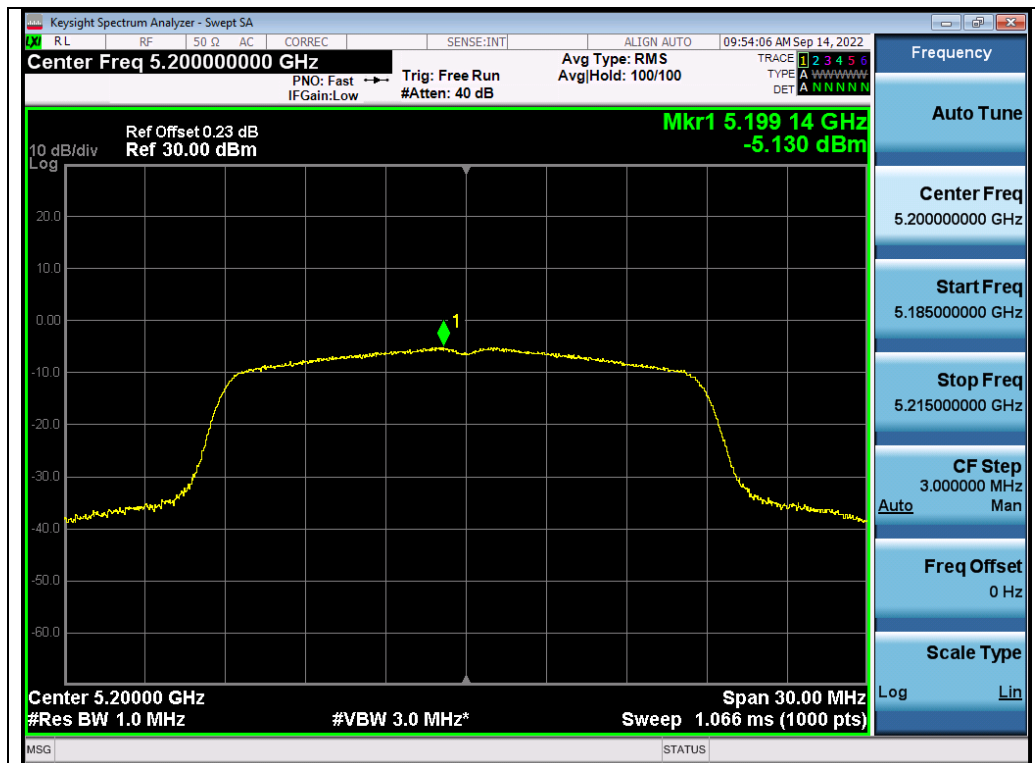
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz-ANT1



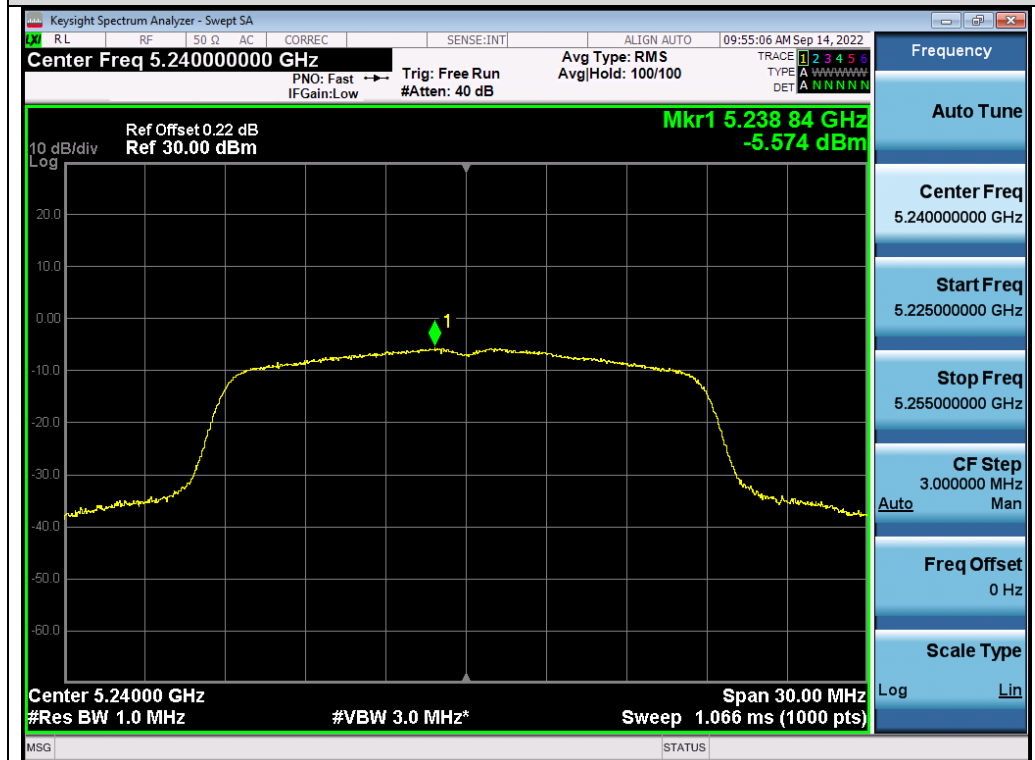
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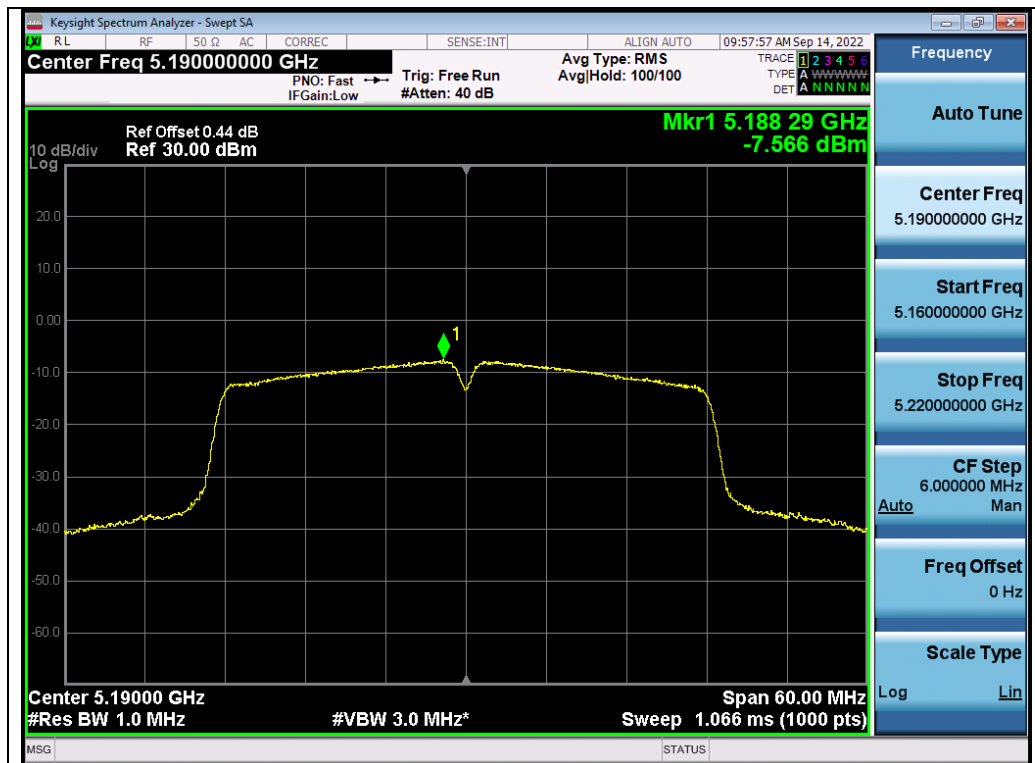


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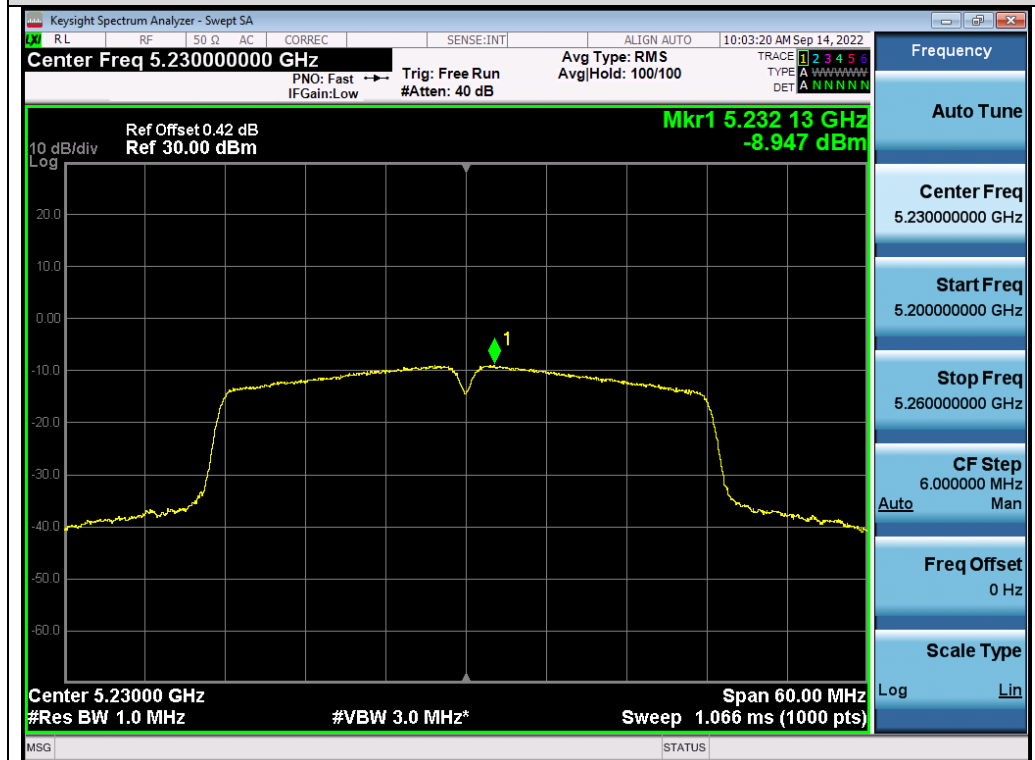


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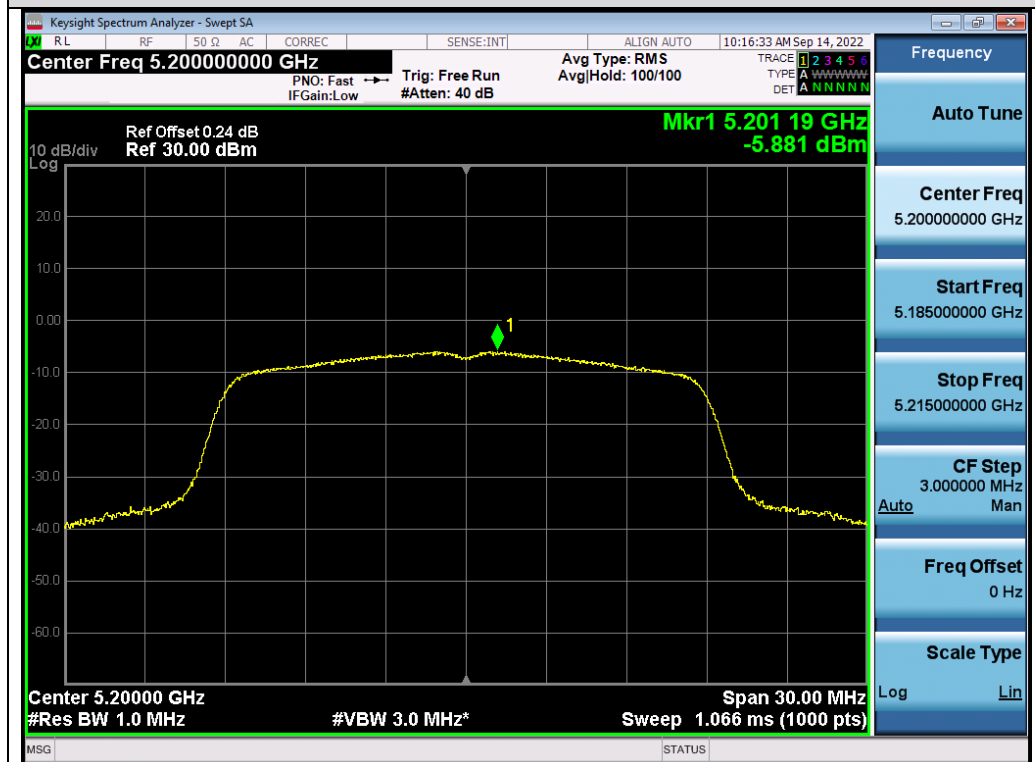
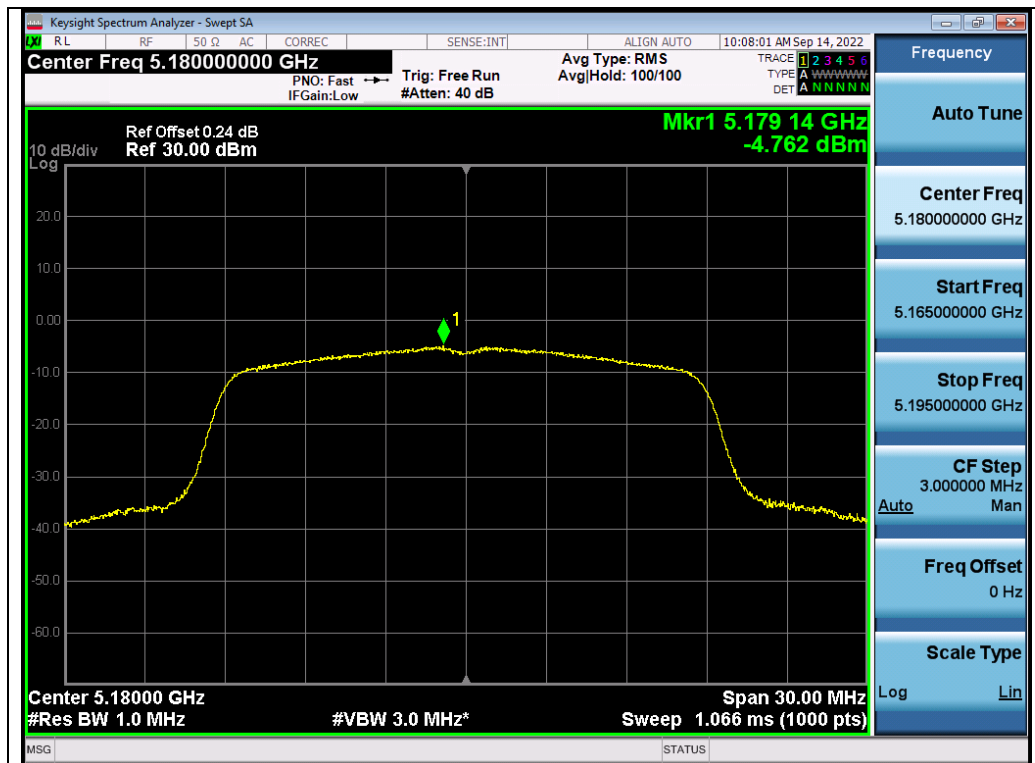


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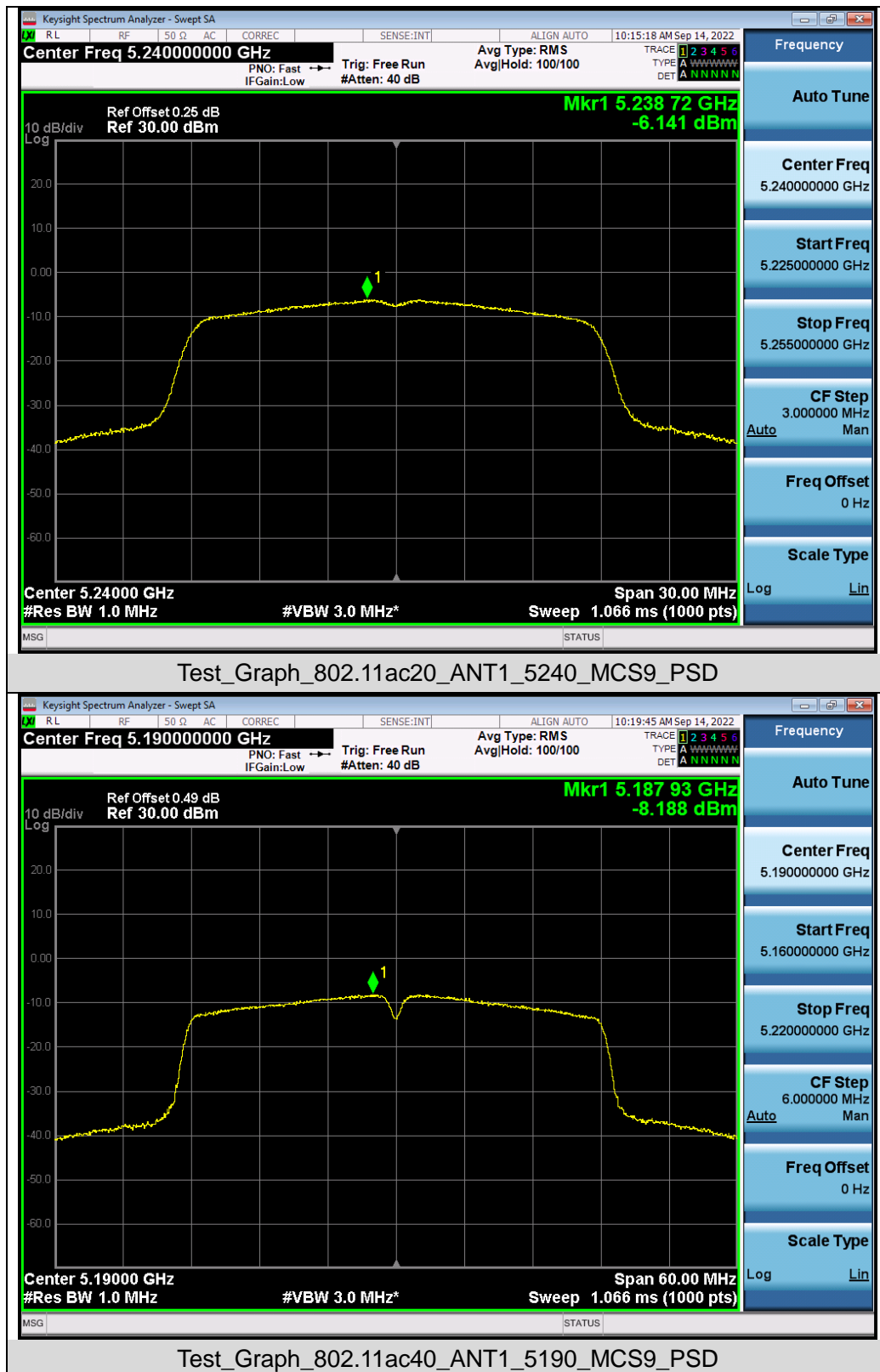


Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

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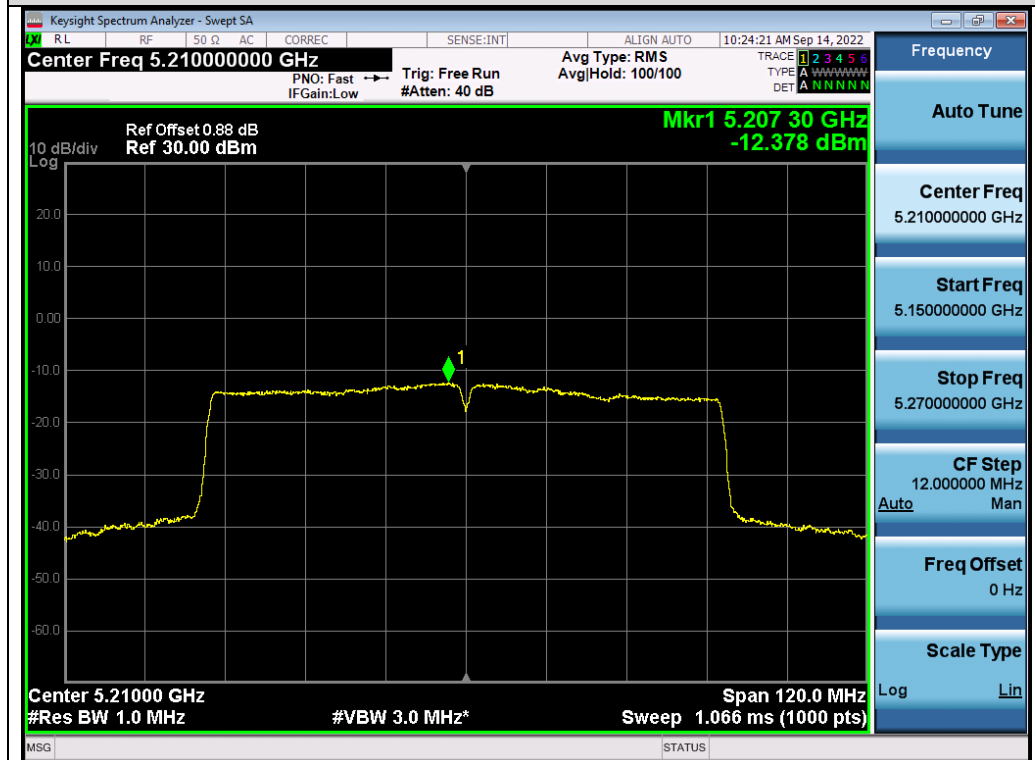
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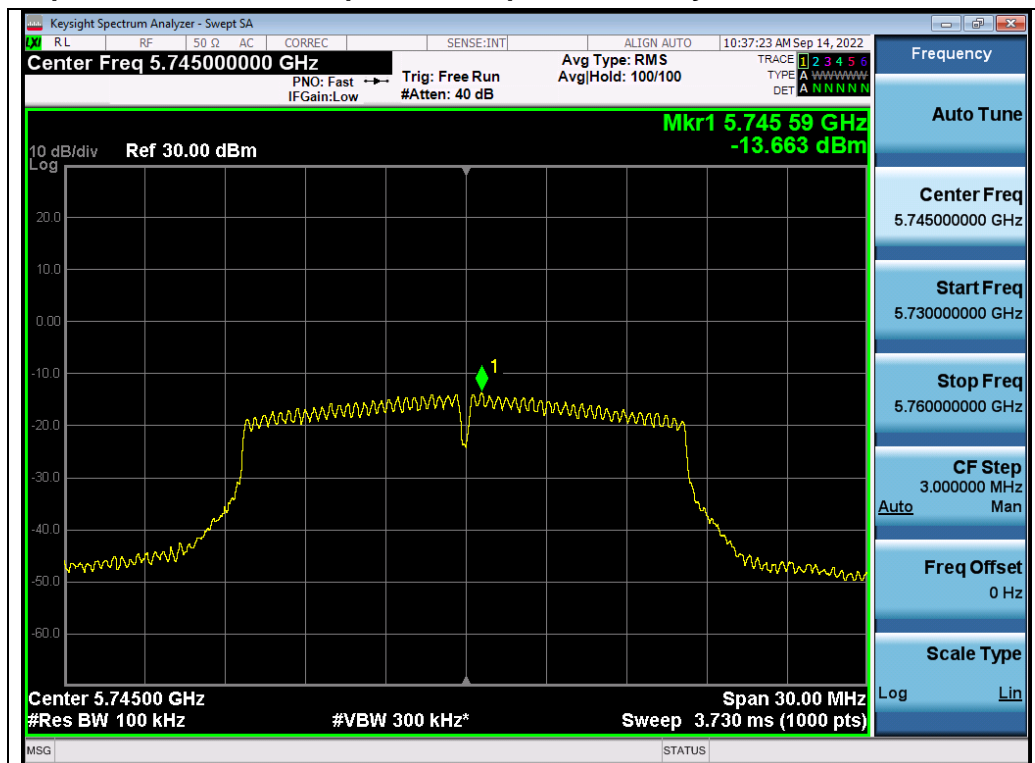
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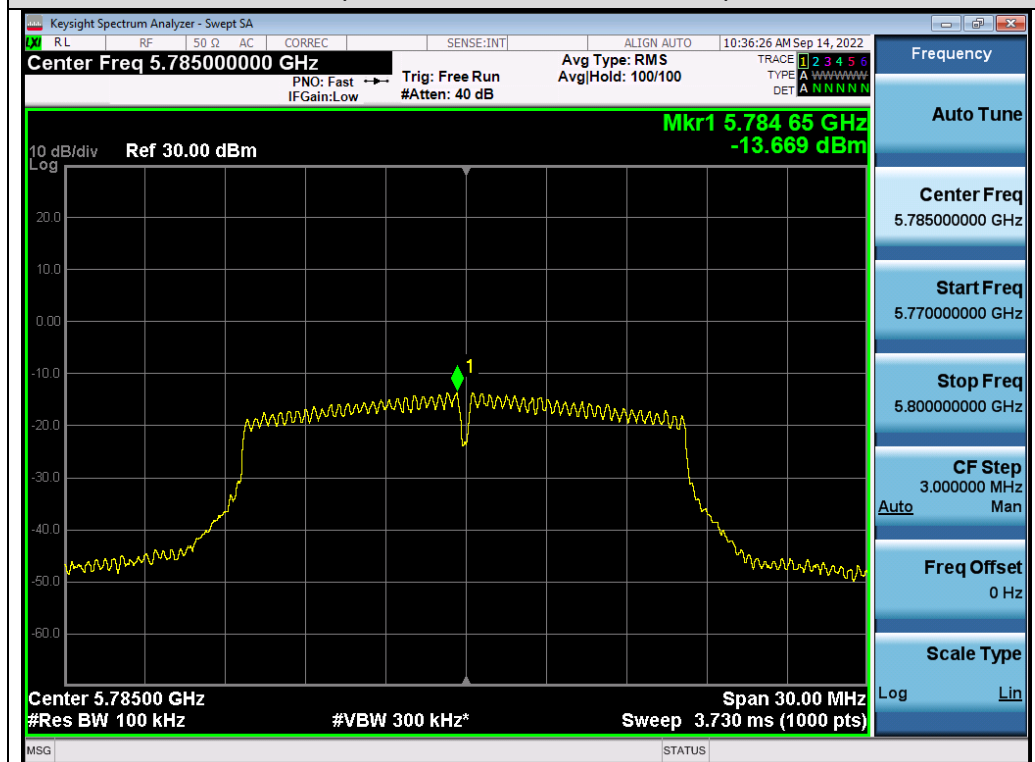
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz-ANT1

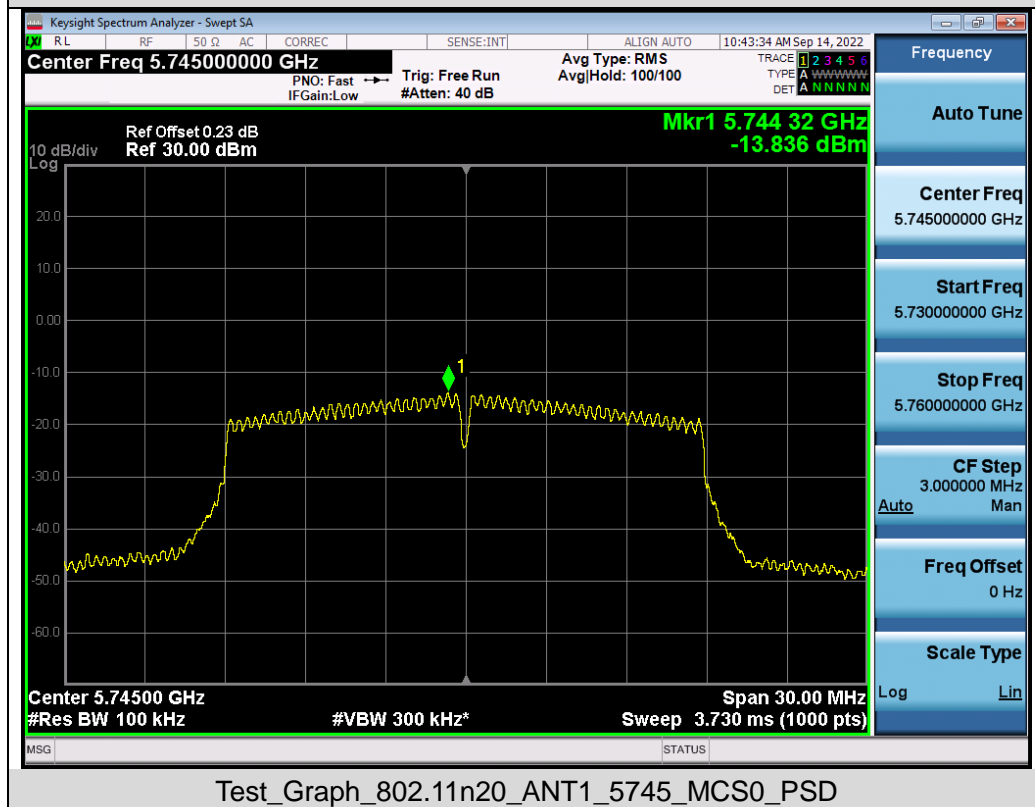
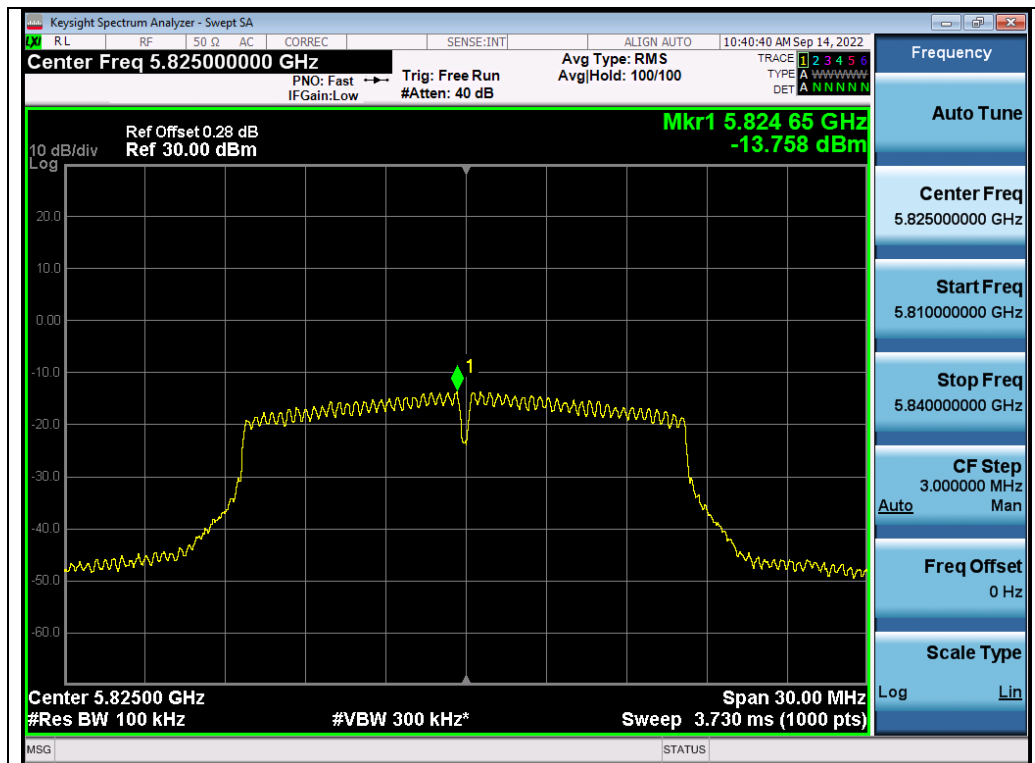


Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



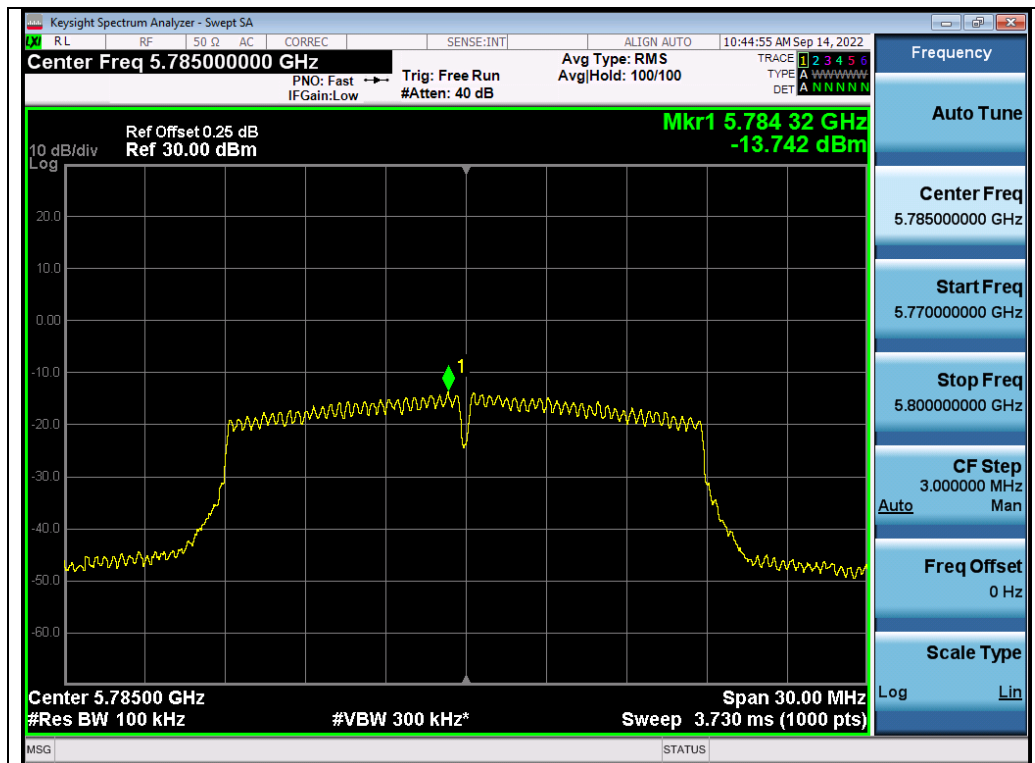
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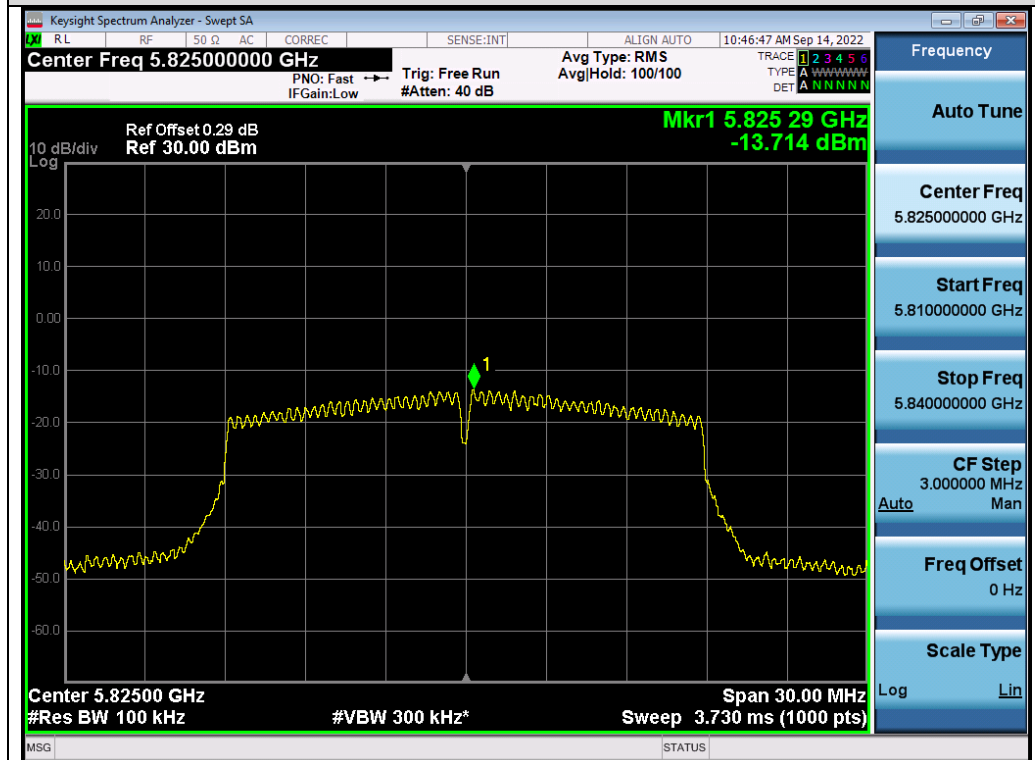


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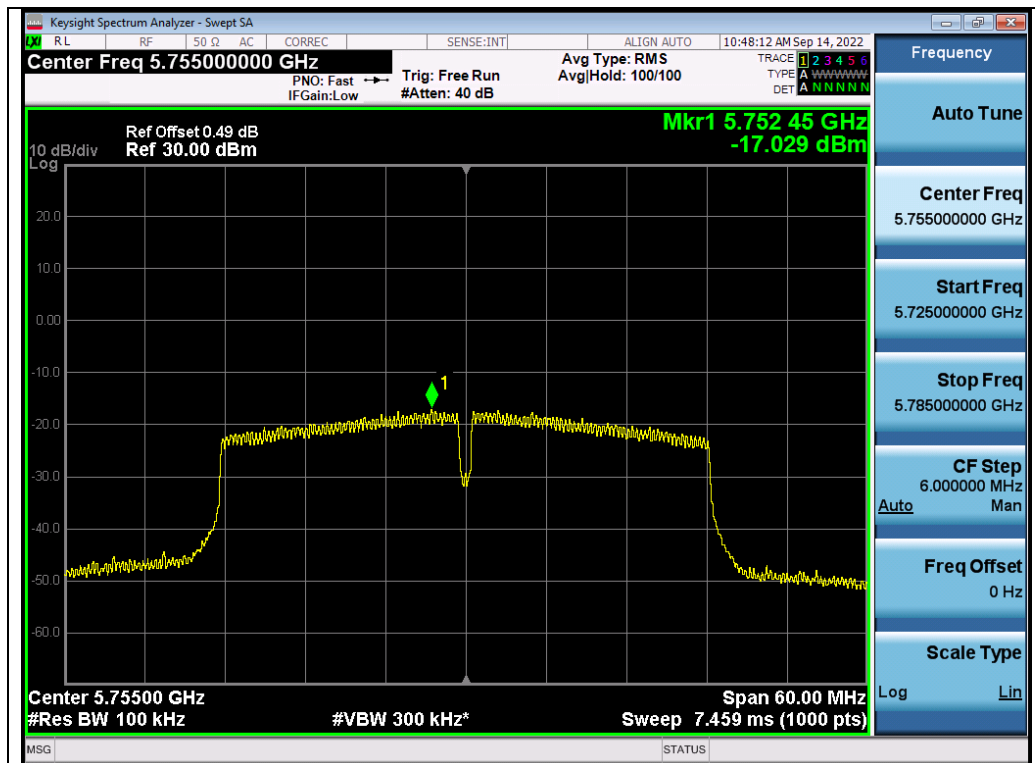


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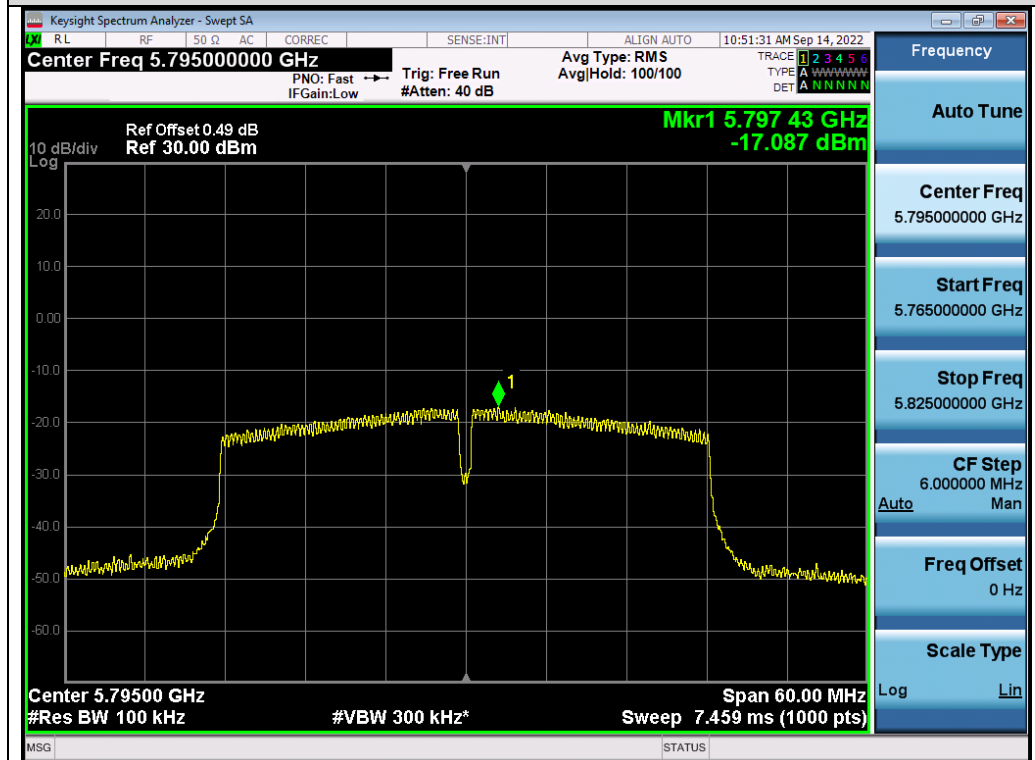


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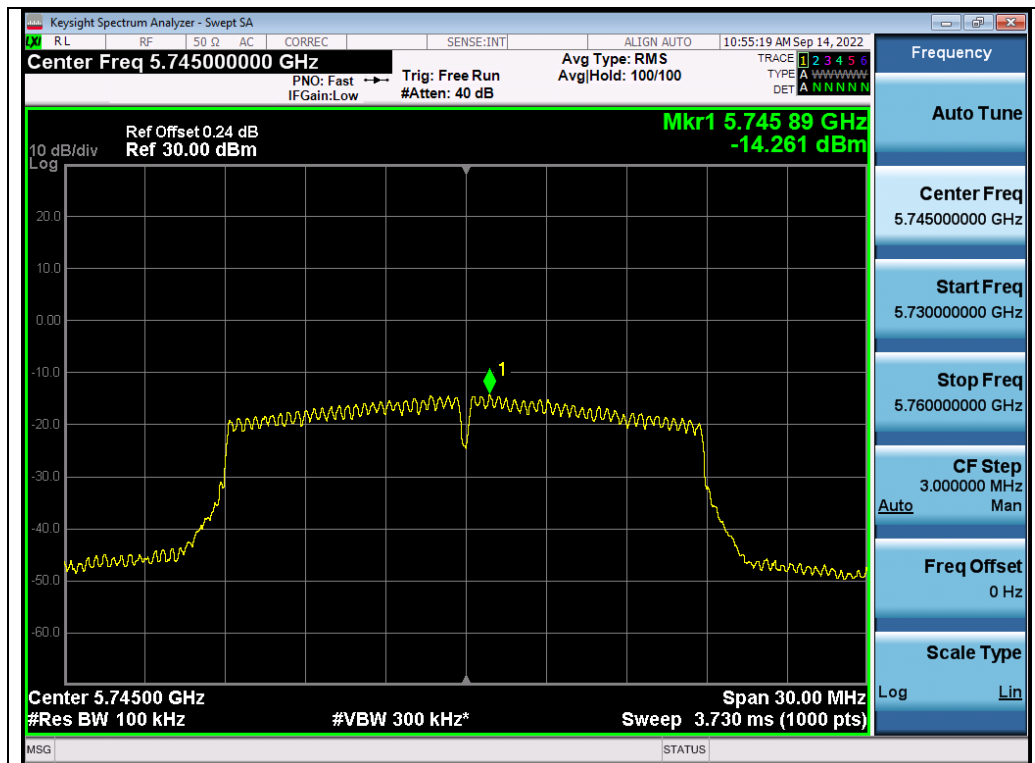


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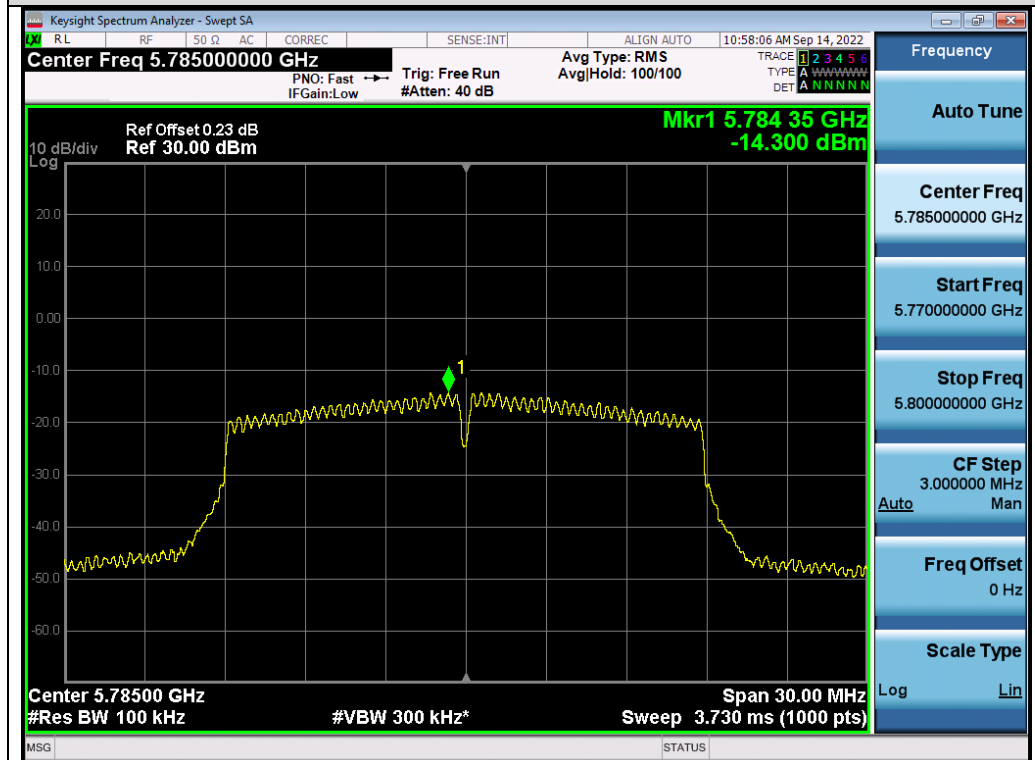


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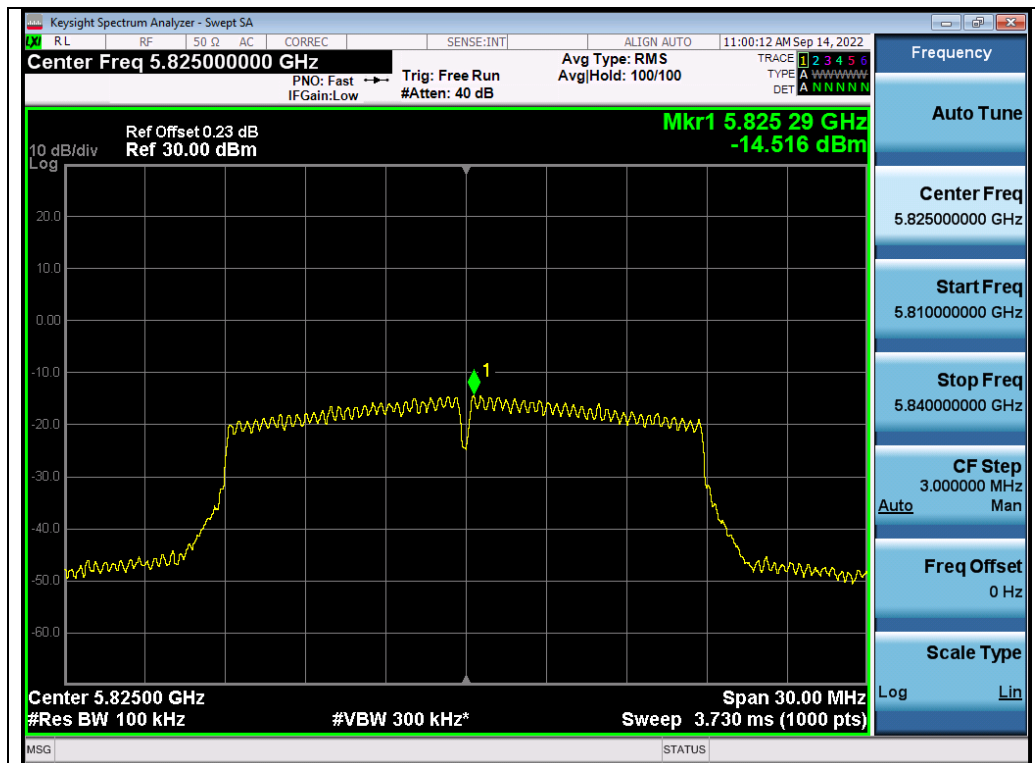


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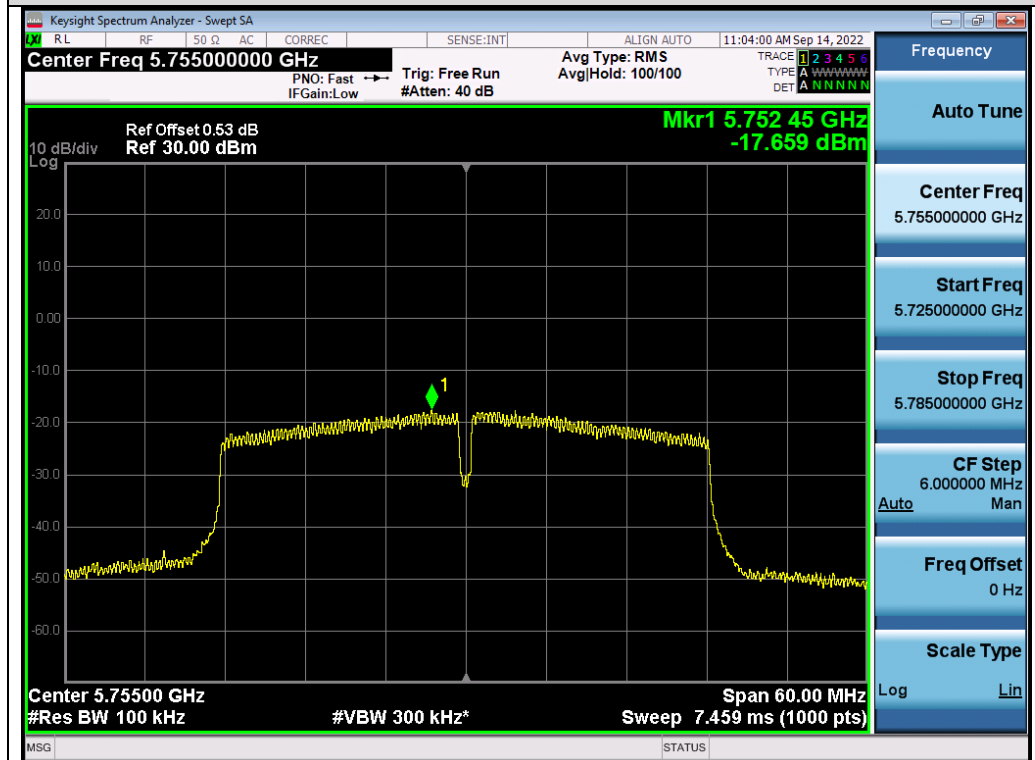


Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

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Test_Graph_802.11ac20_ANT1_5825_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD

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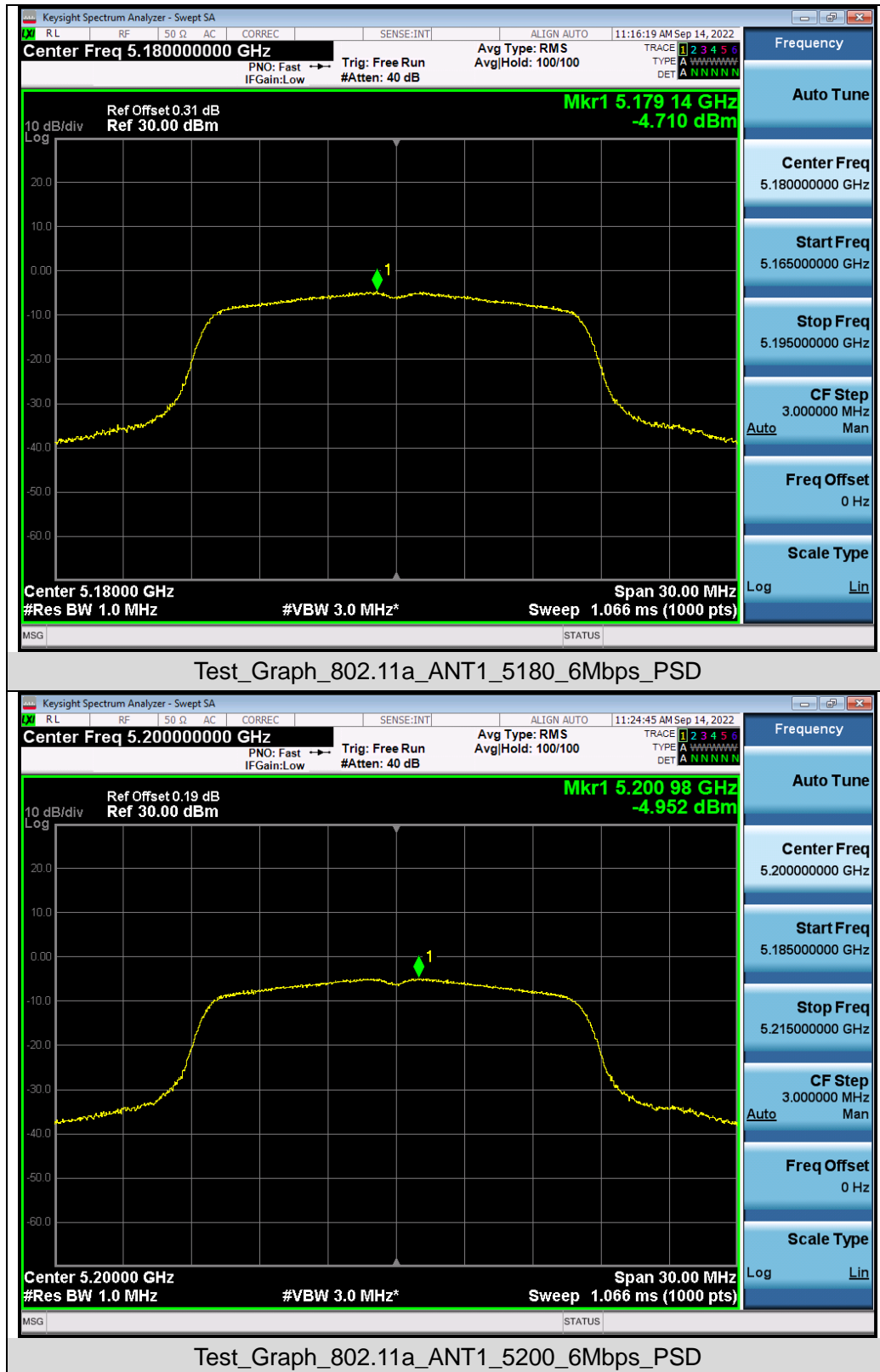
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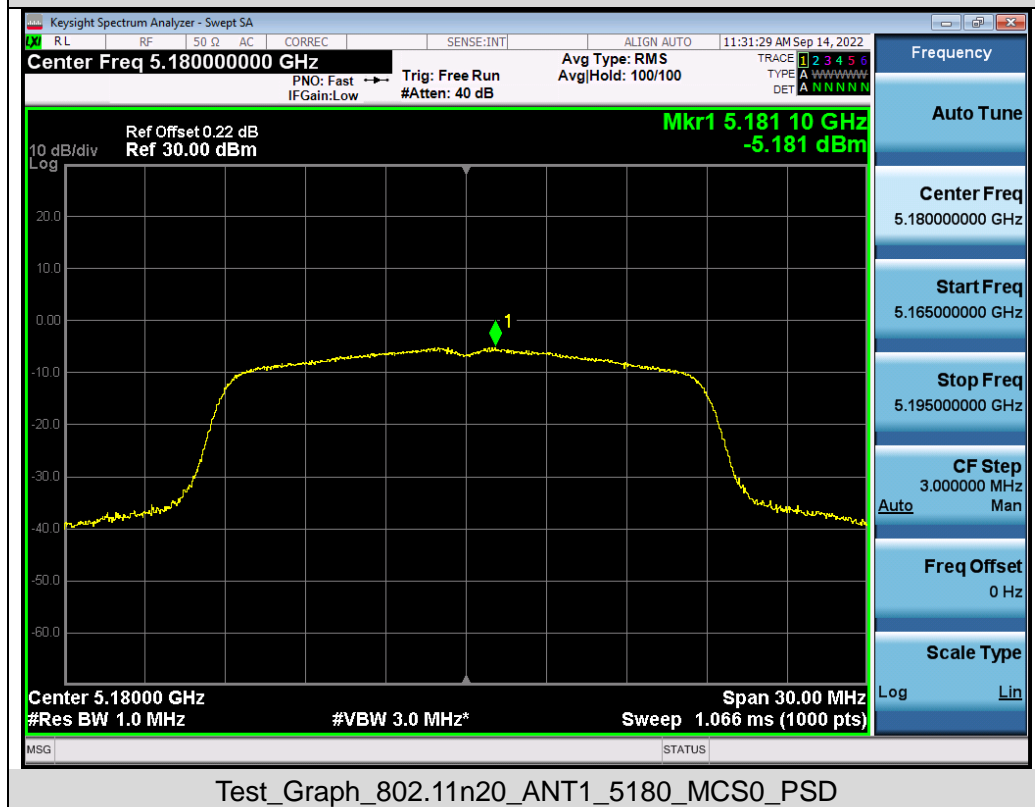
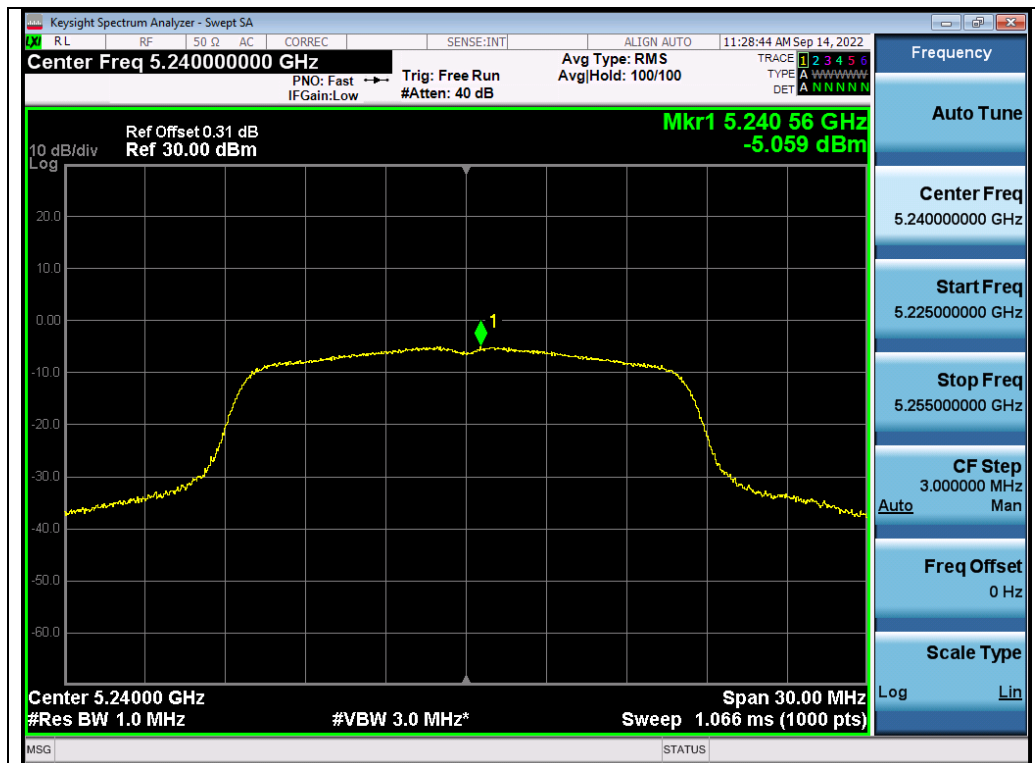
Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD

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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz-ANT2

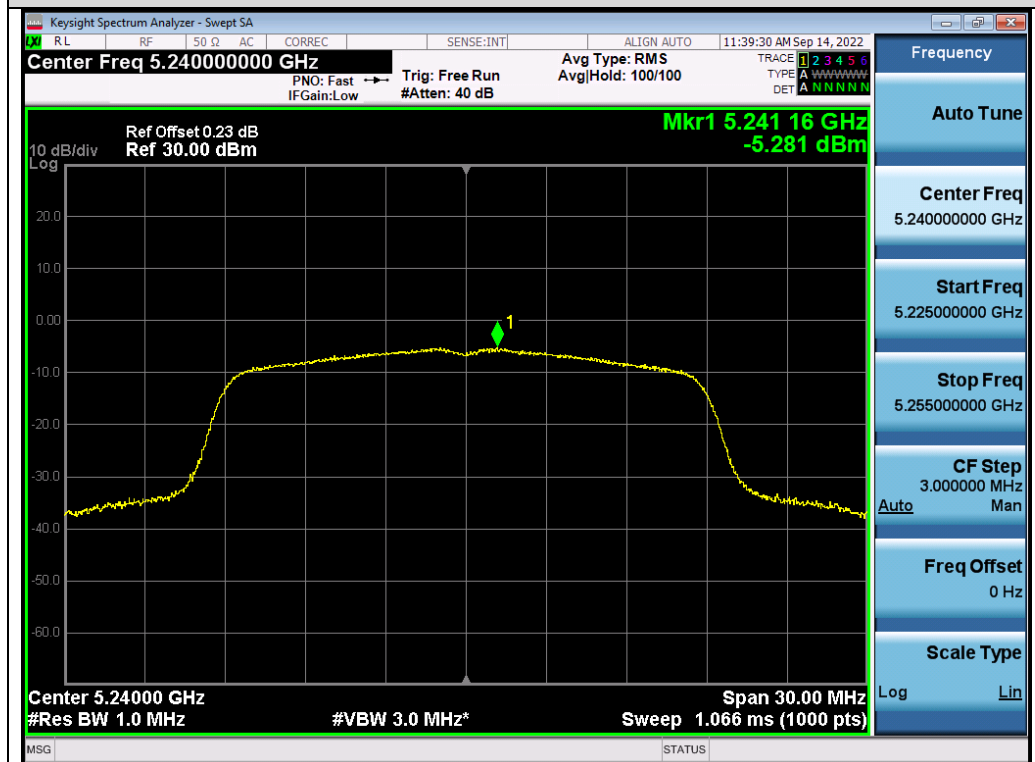
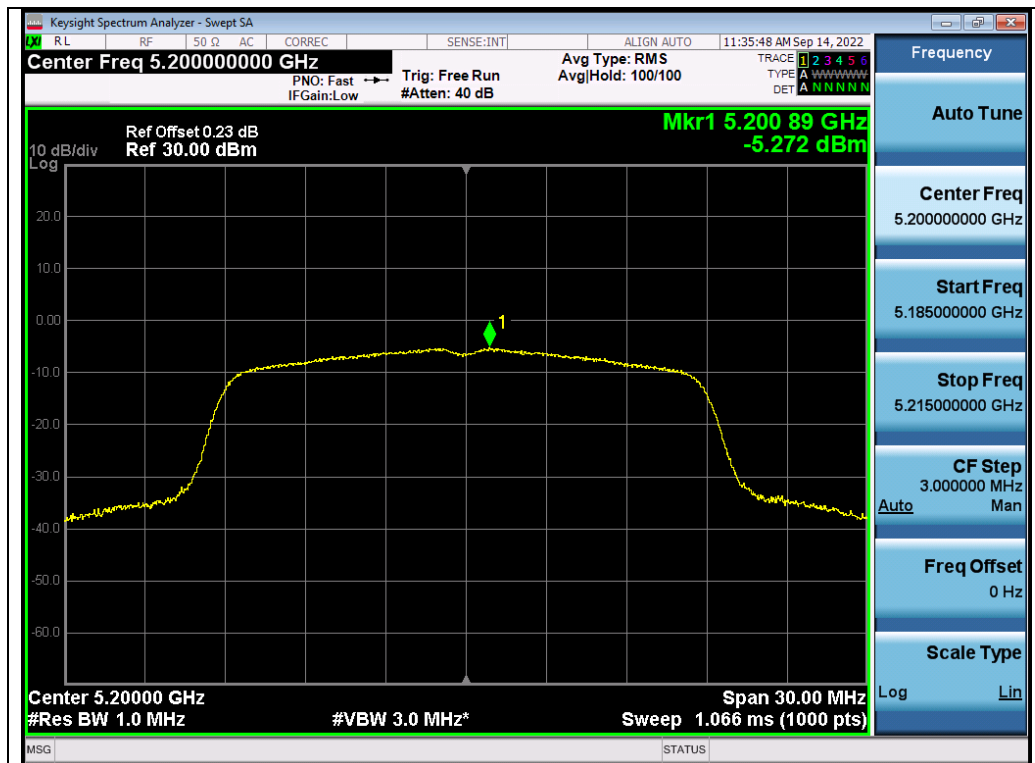


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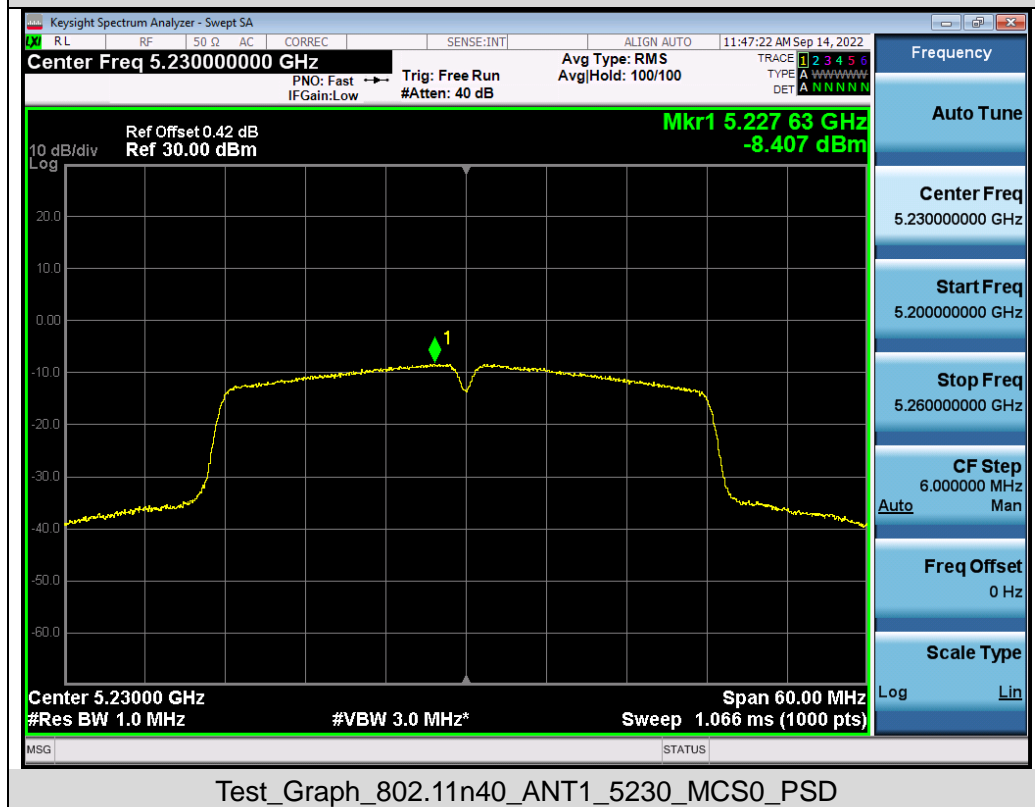
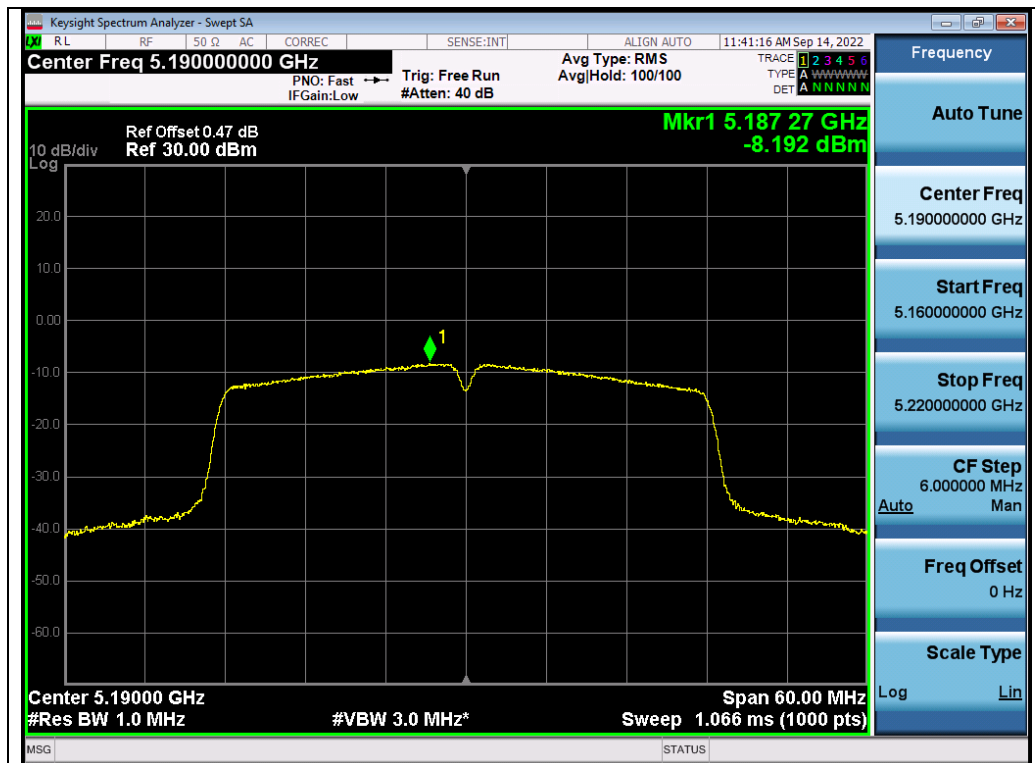


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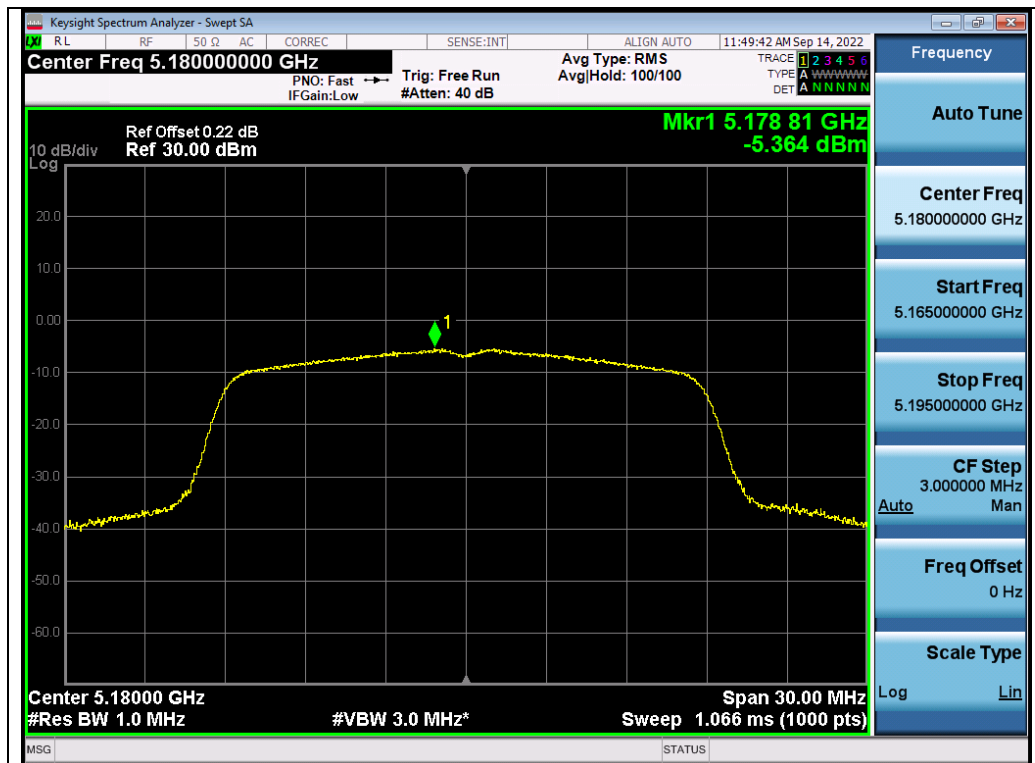


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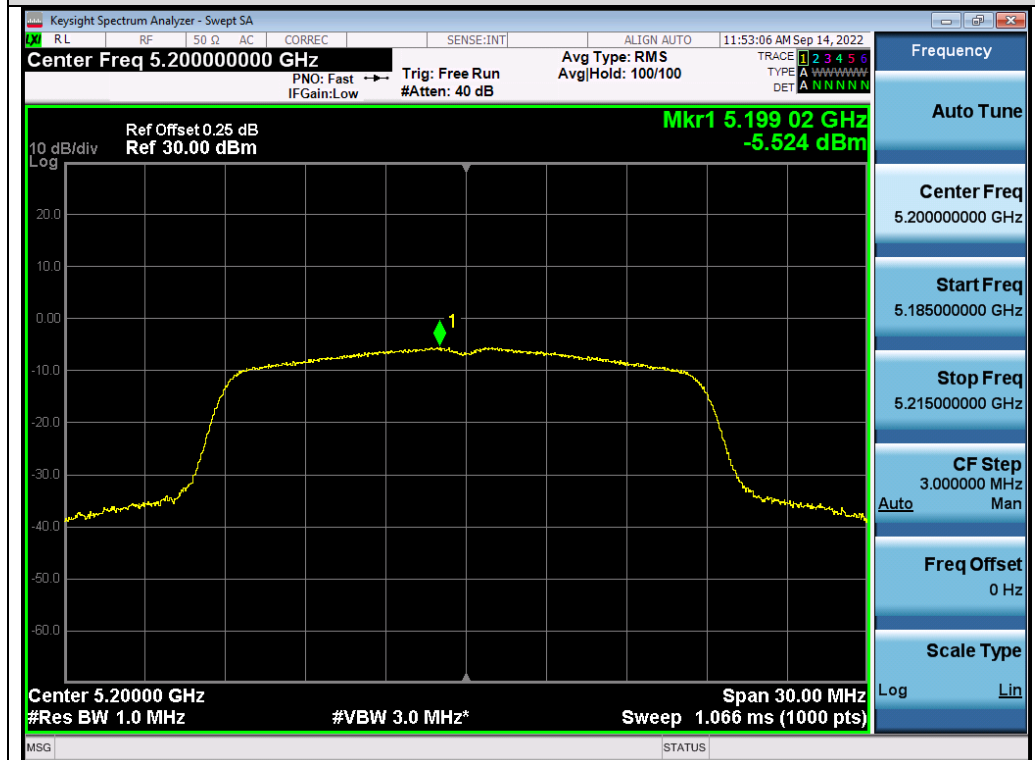


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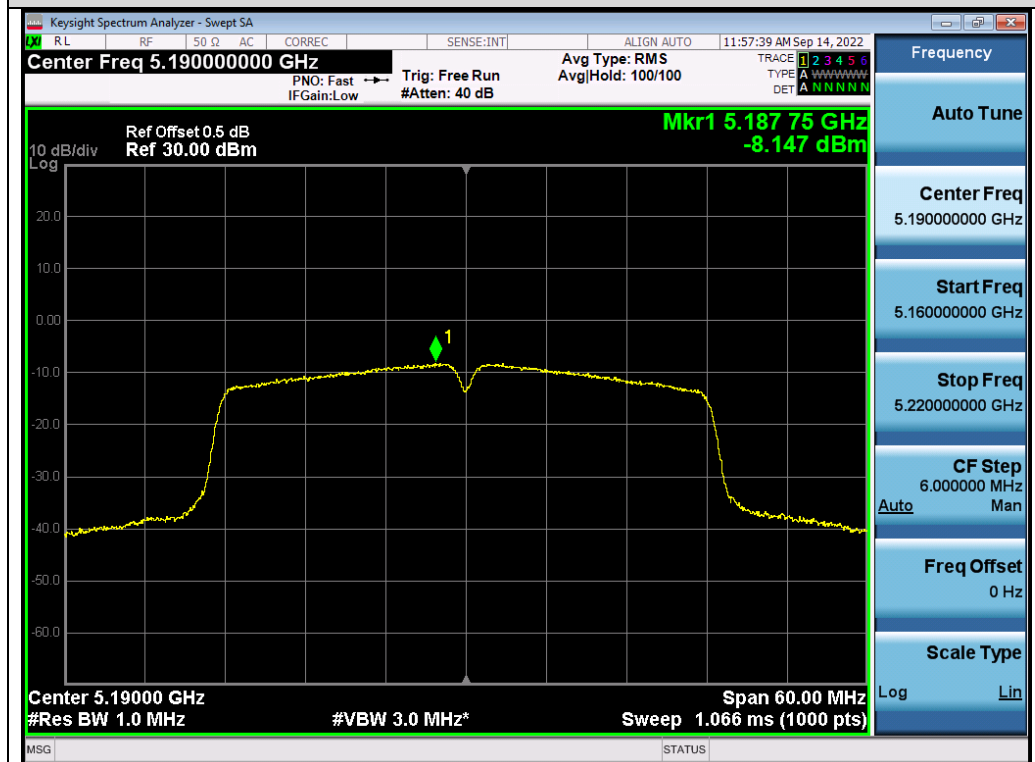


Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD



Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

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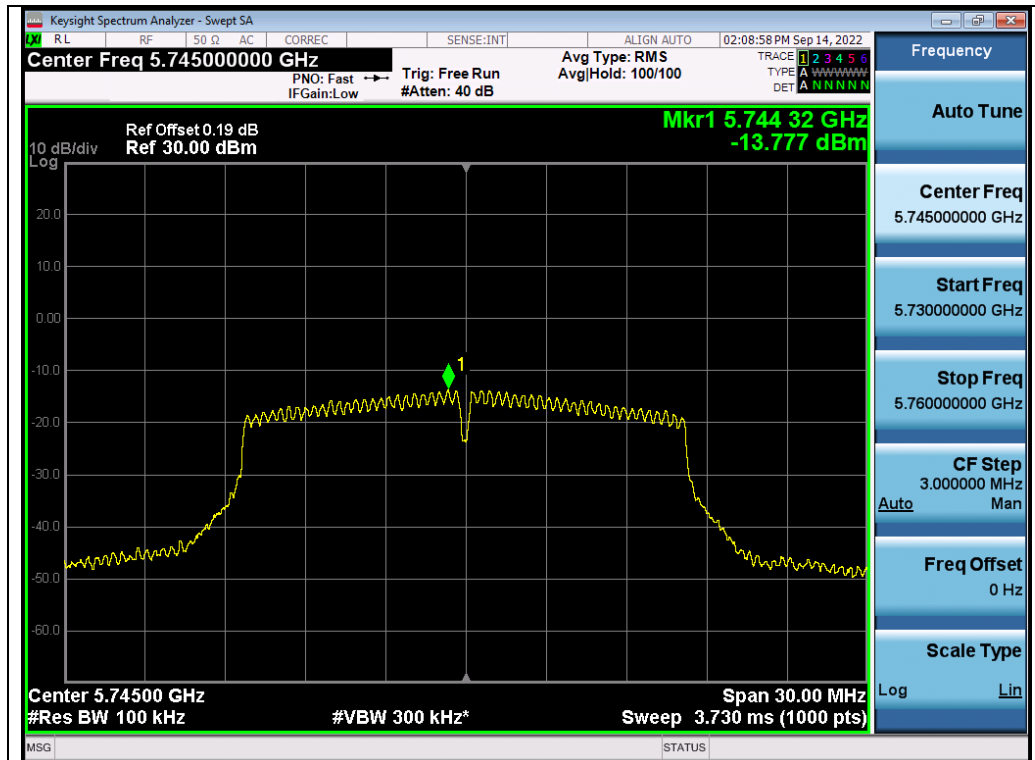
Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD



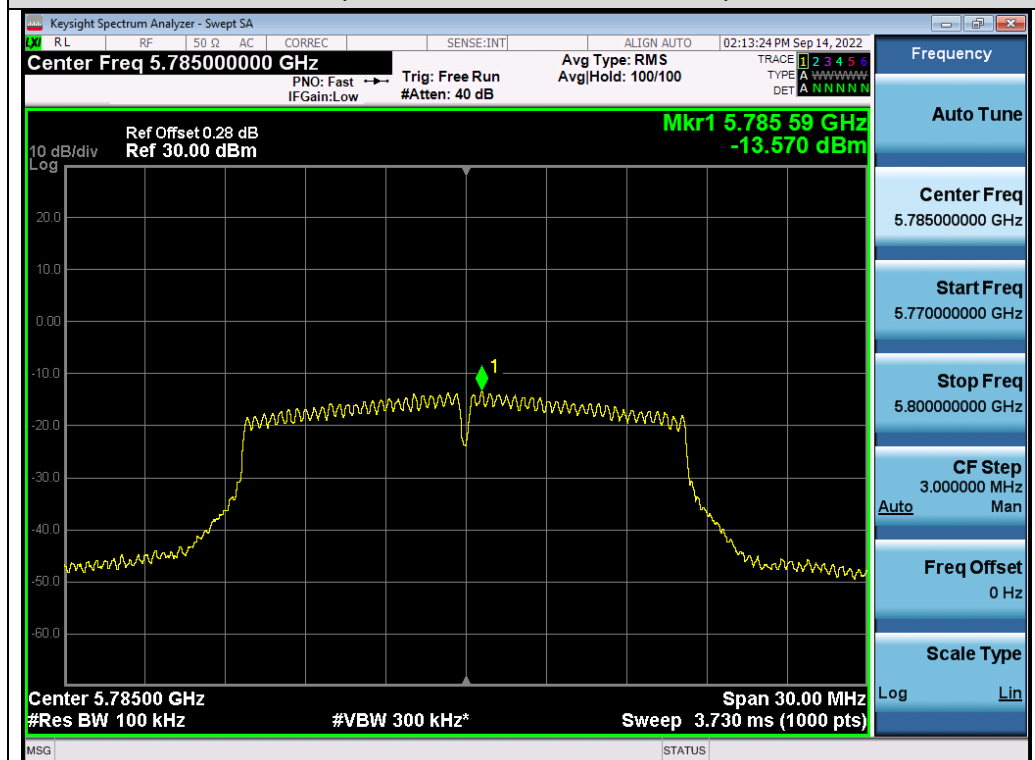
Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD

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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz-ANT2

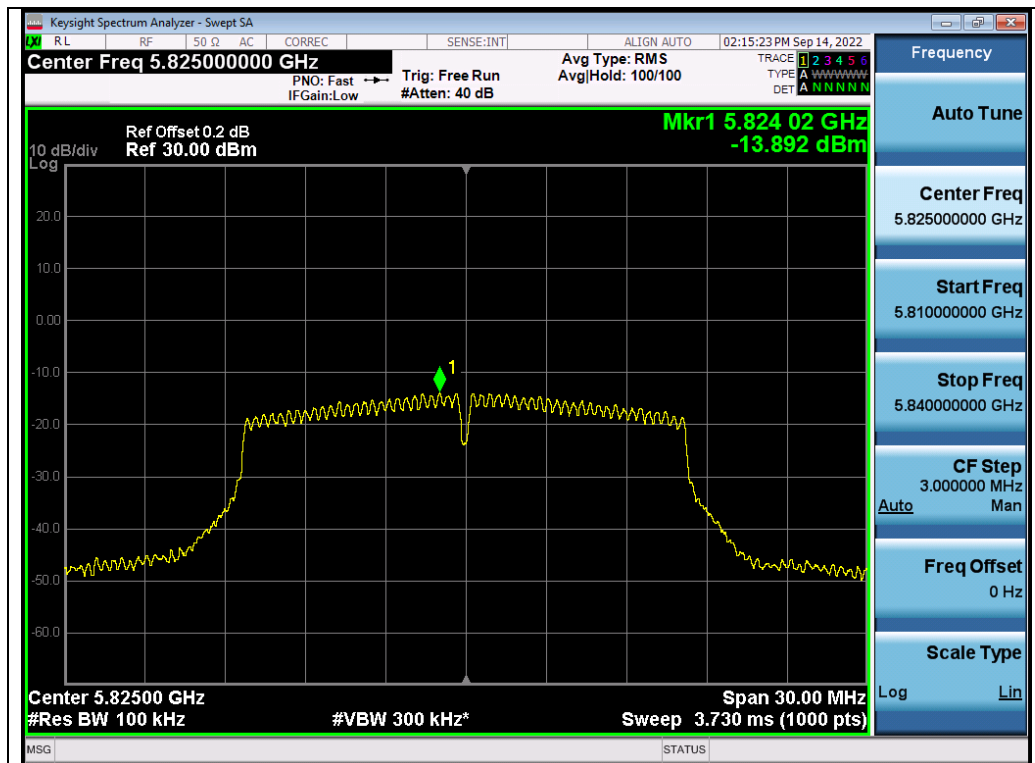


Test_Graph_802.11a_ANT1_5745_6Mbps_PSD

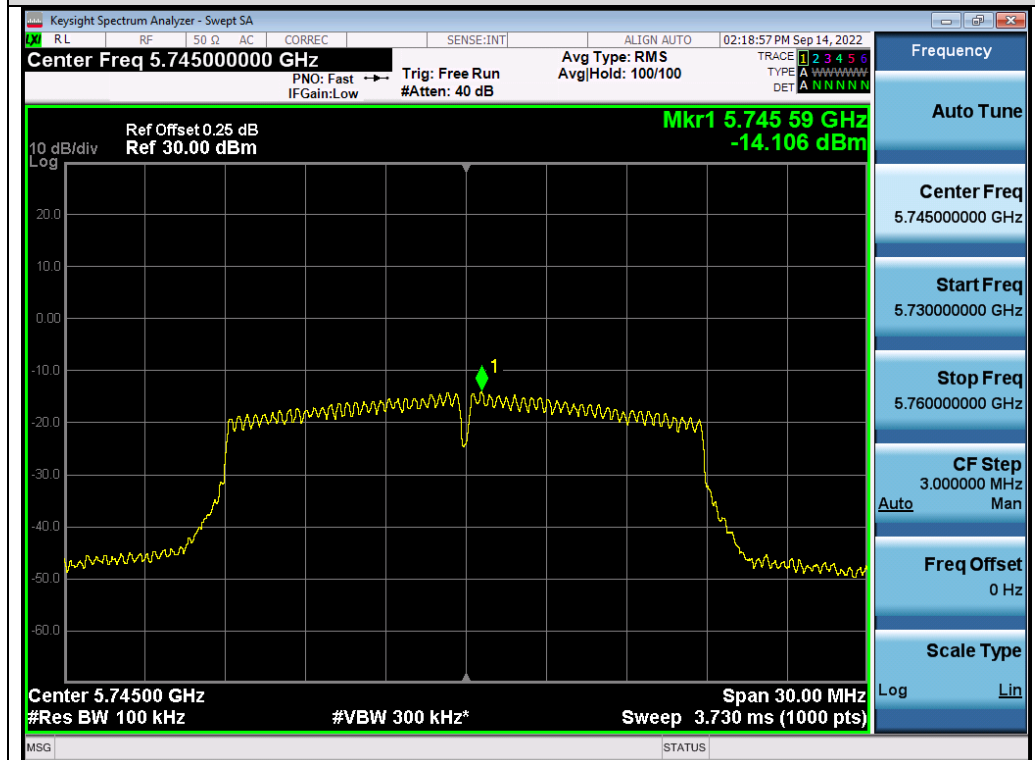


Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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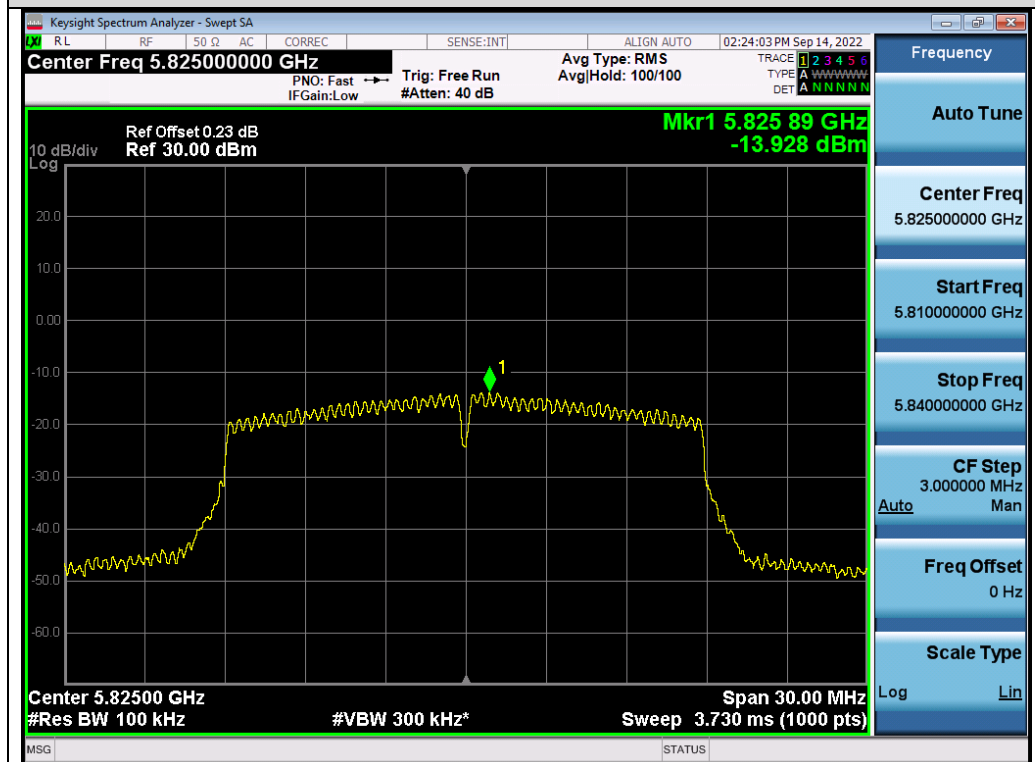
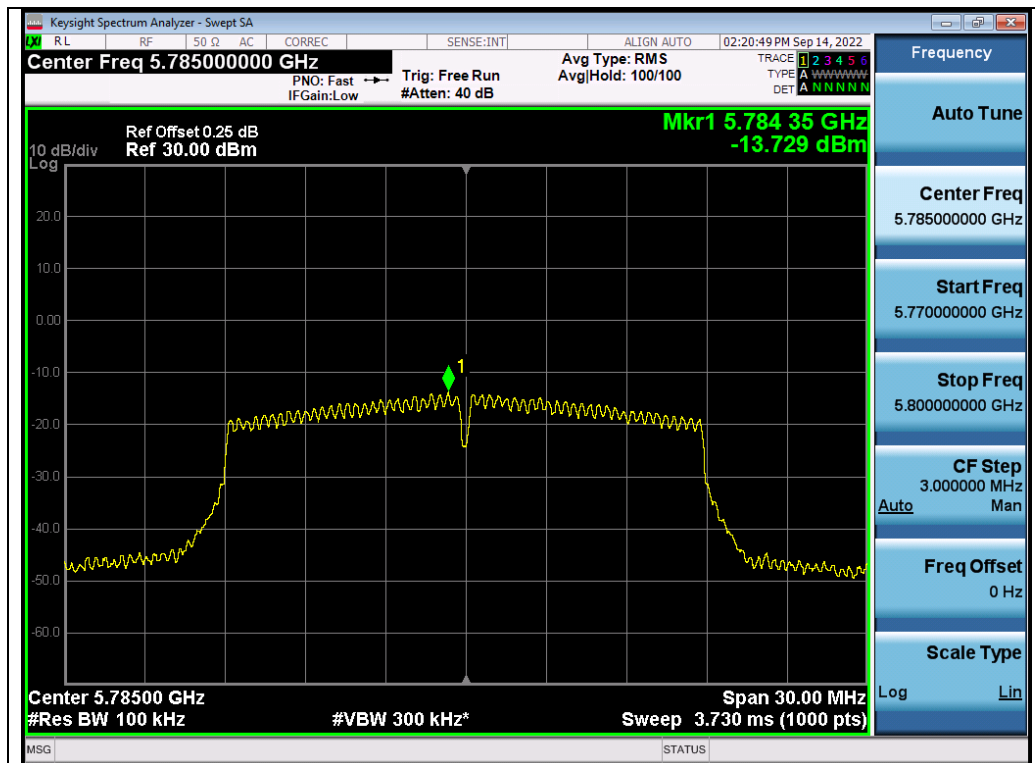


Test_Graph_802.11a_ANT1_5825_6Mbps_PSD



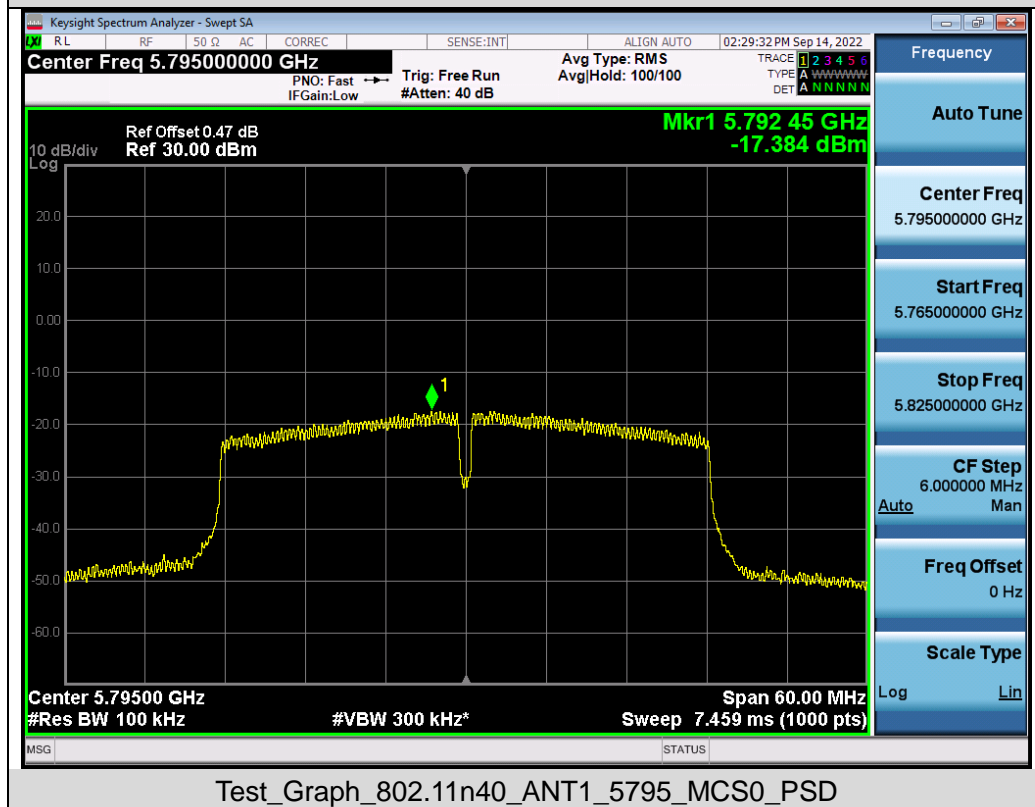
Test_Graph_802.11n20_ANT1_5745_MCS0_PSD

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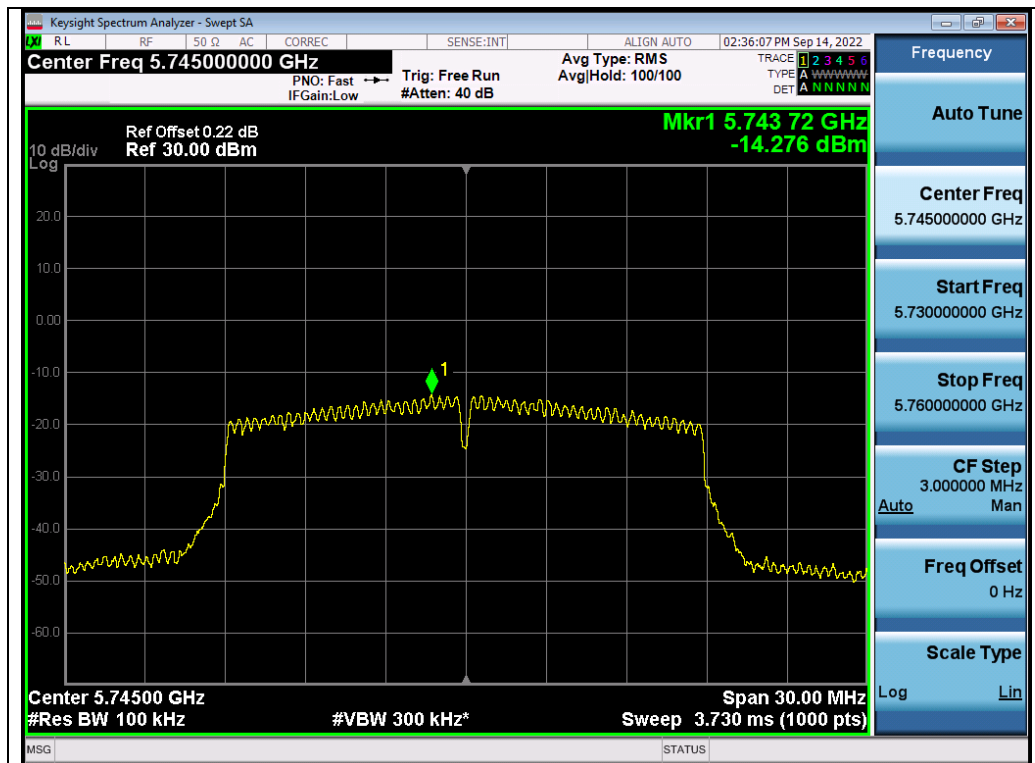


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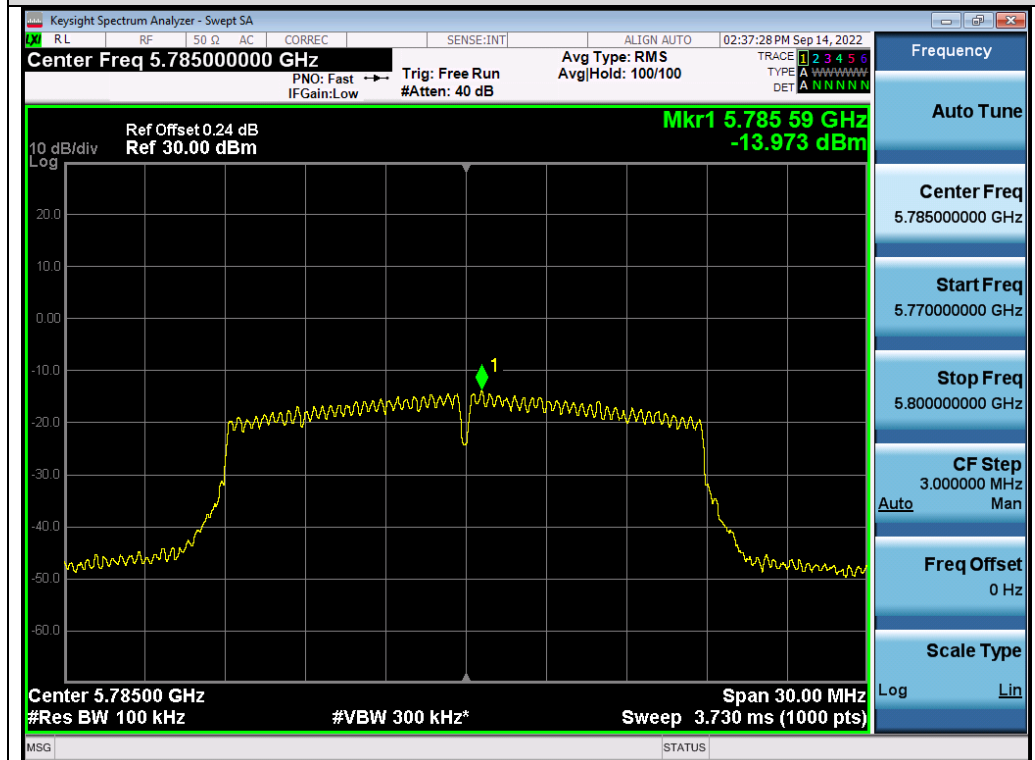
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Test_Graph_802.11ac20_ANT1_5745_MCS0_PSD

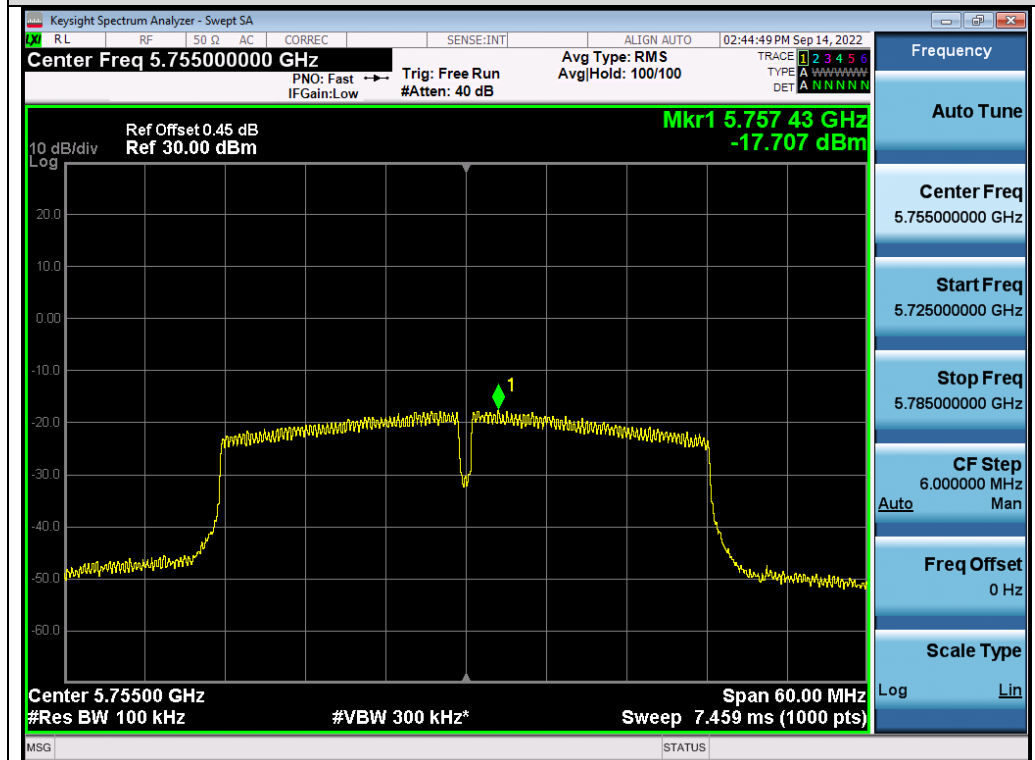


Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

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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_802.11ac40_ANT1_5795_MCS9_PSD



Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD

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10. CONDUCTED SPURIOUS EMISSION

10.1. MEASUREMENT PROCEDURE

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

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

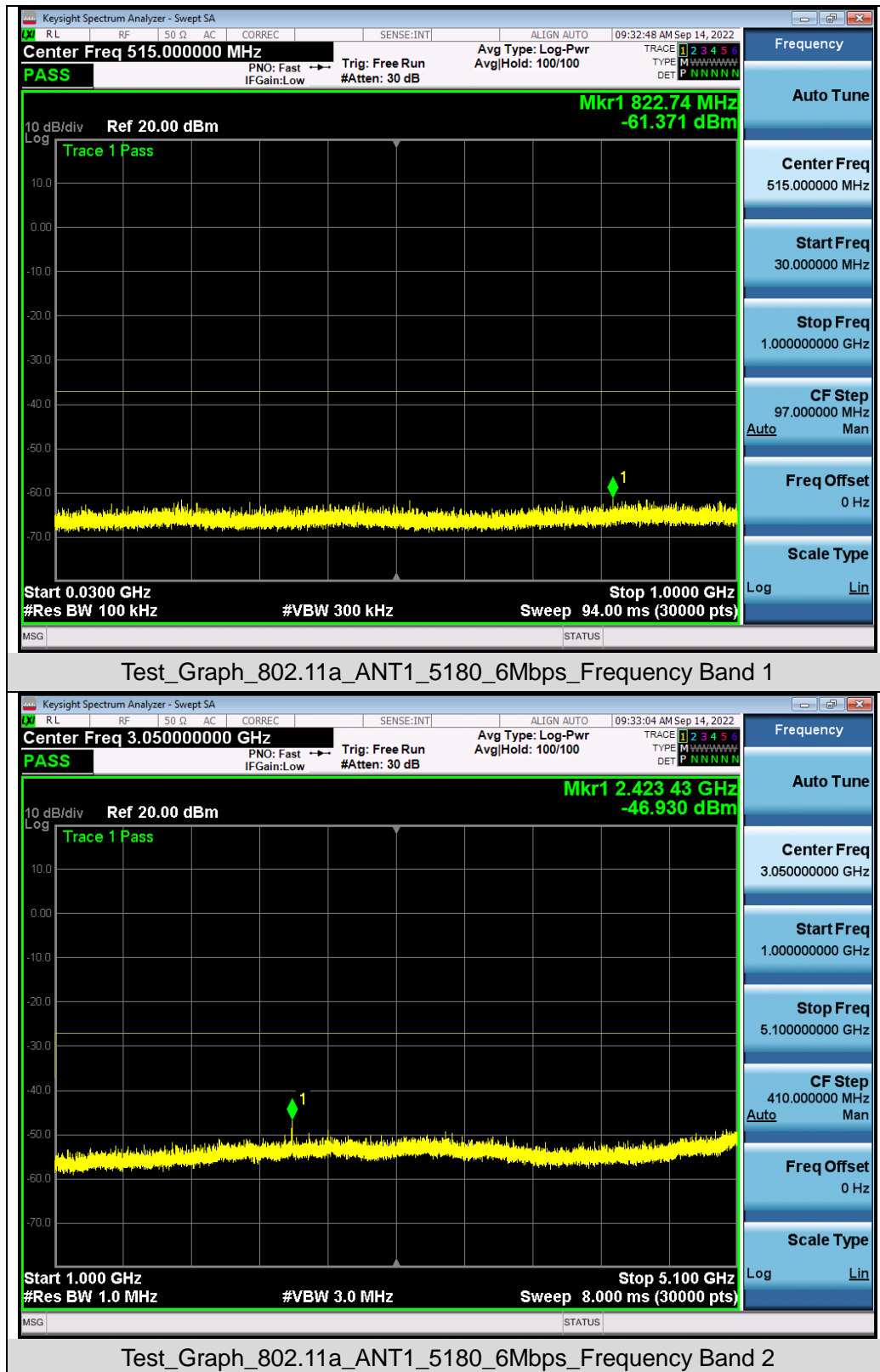
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

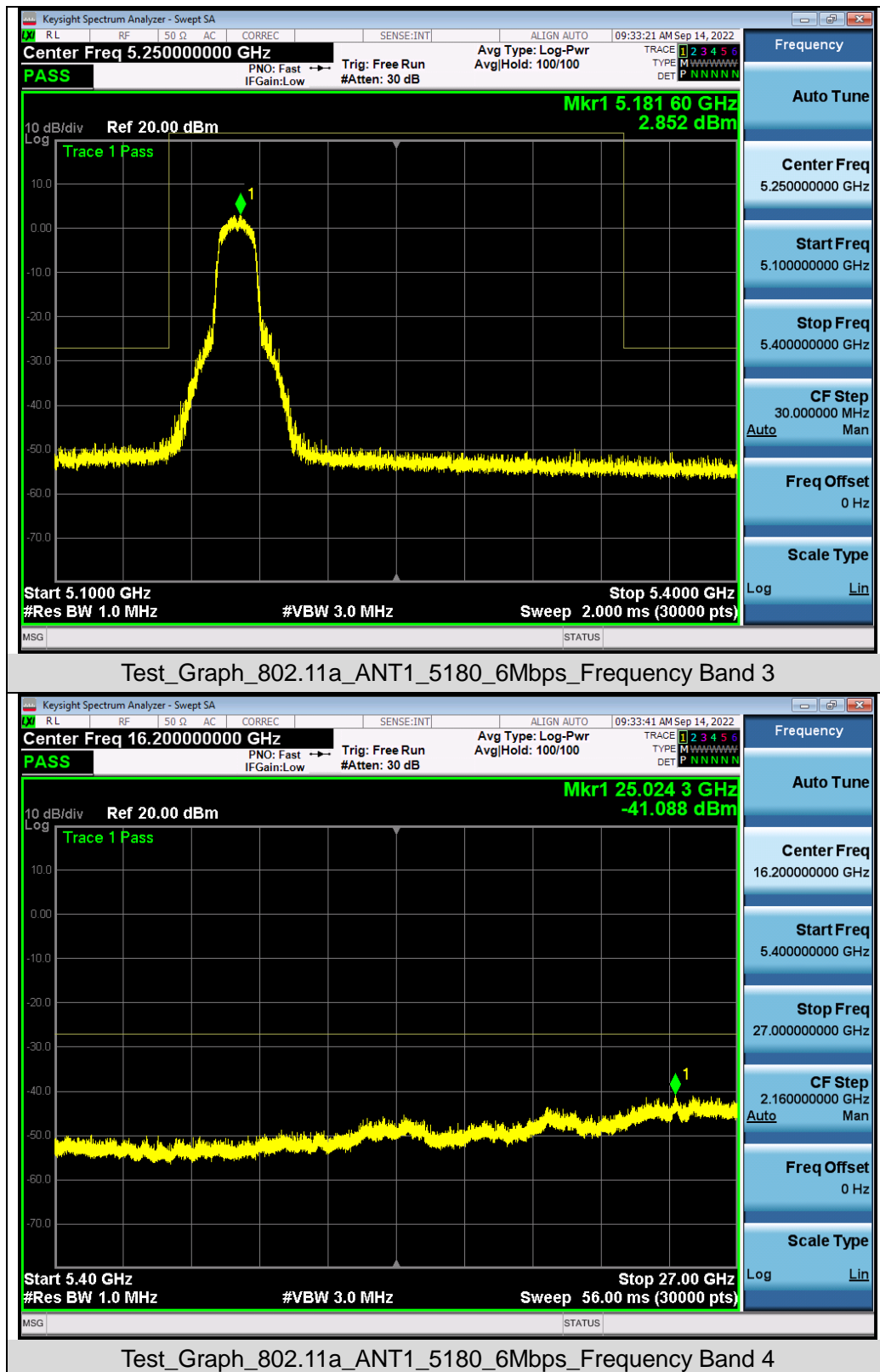
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteri a
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, 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.	5725MHz-5850MHz	PASS

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

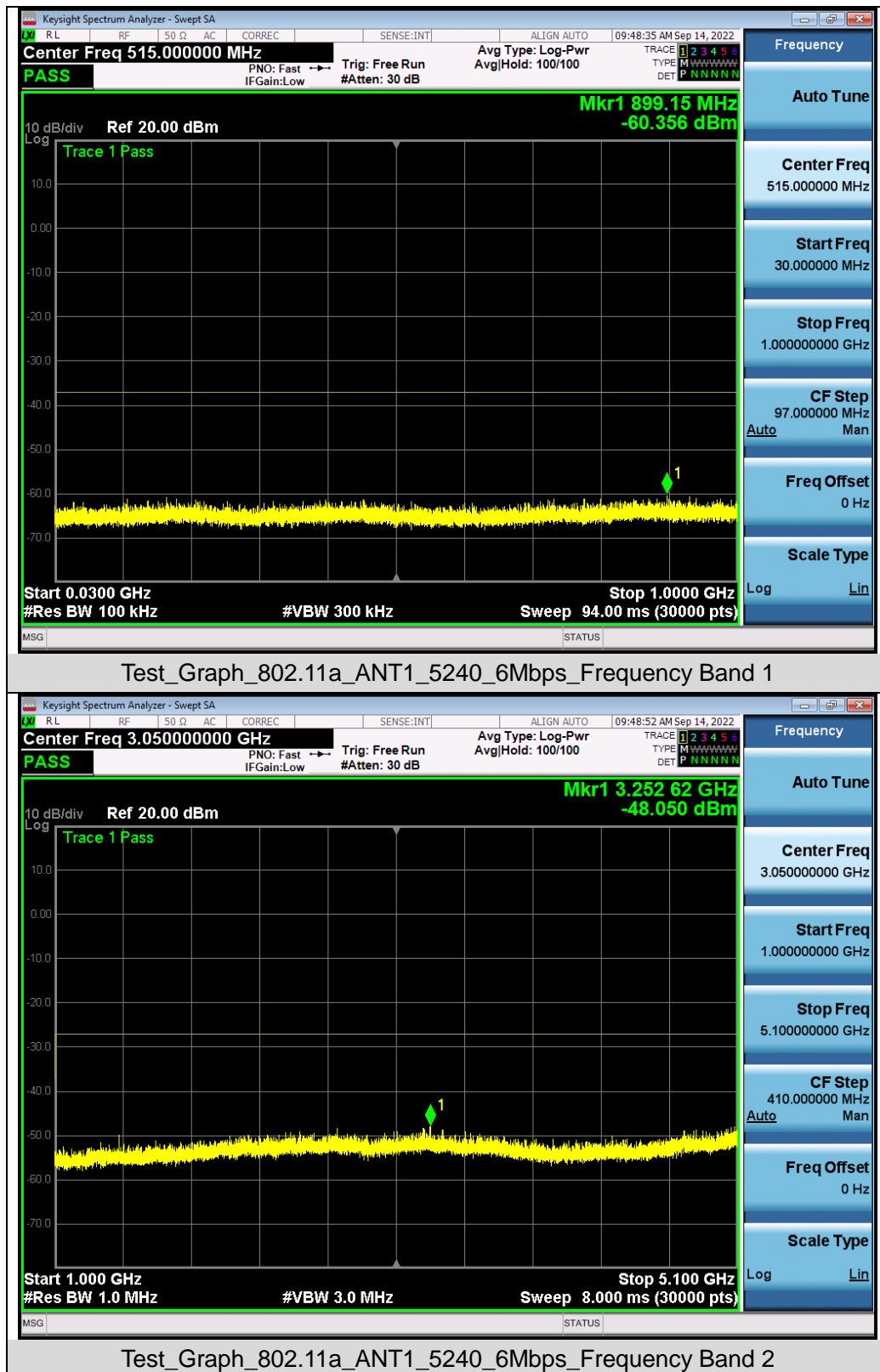
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band-ANT1



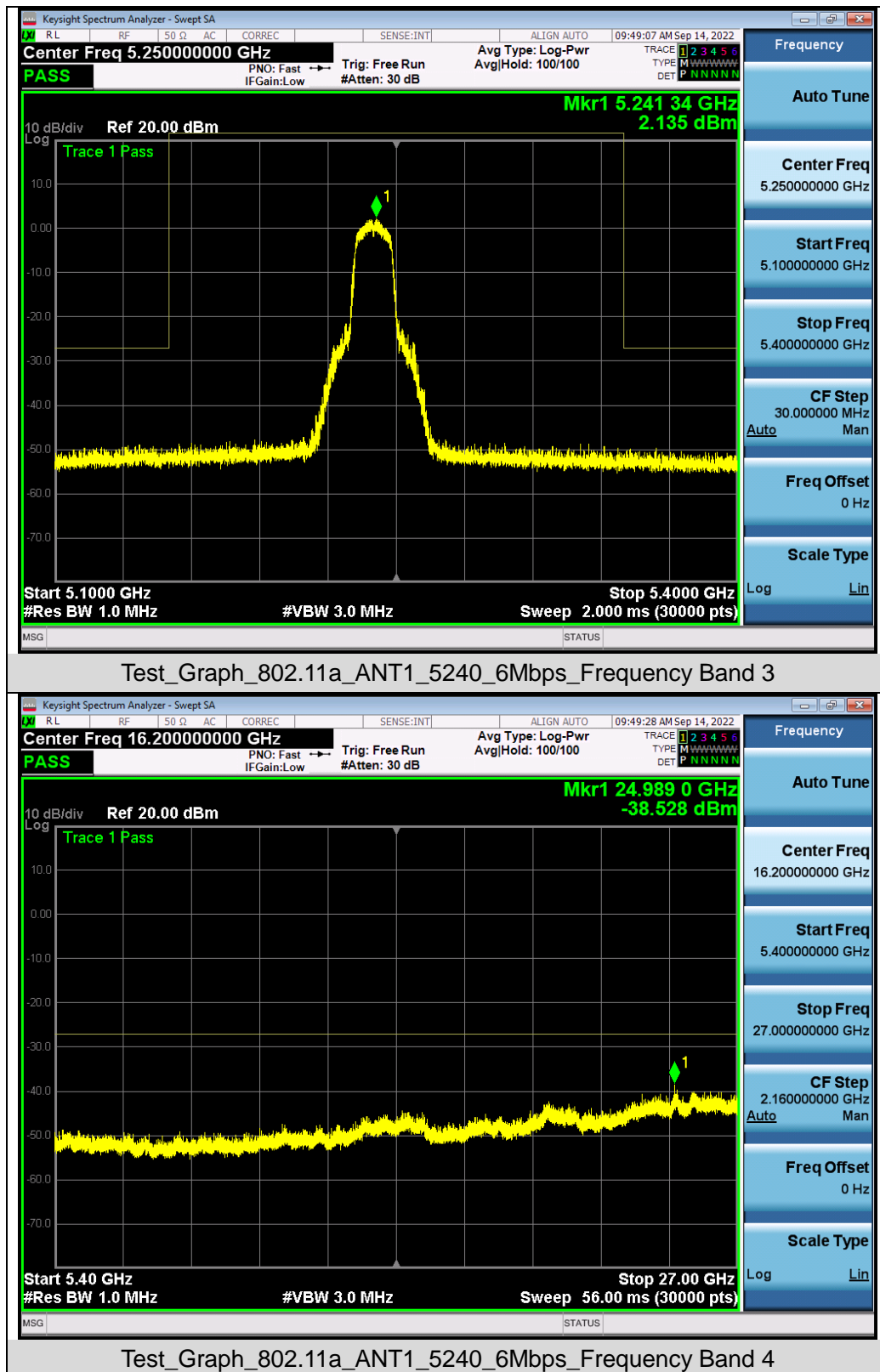
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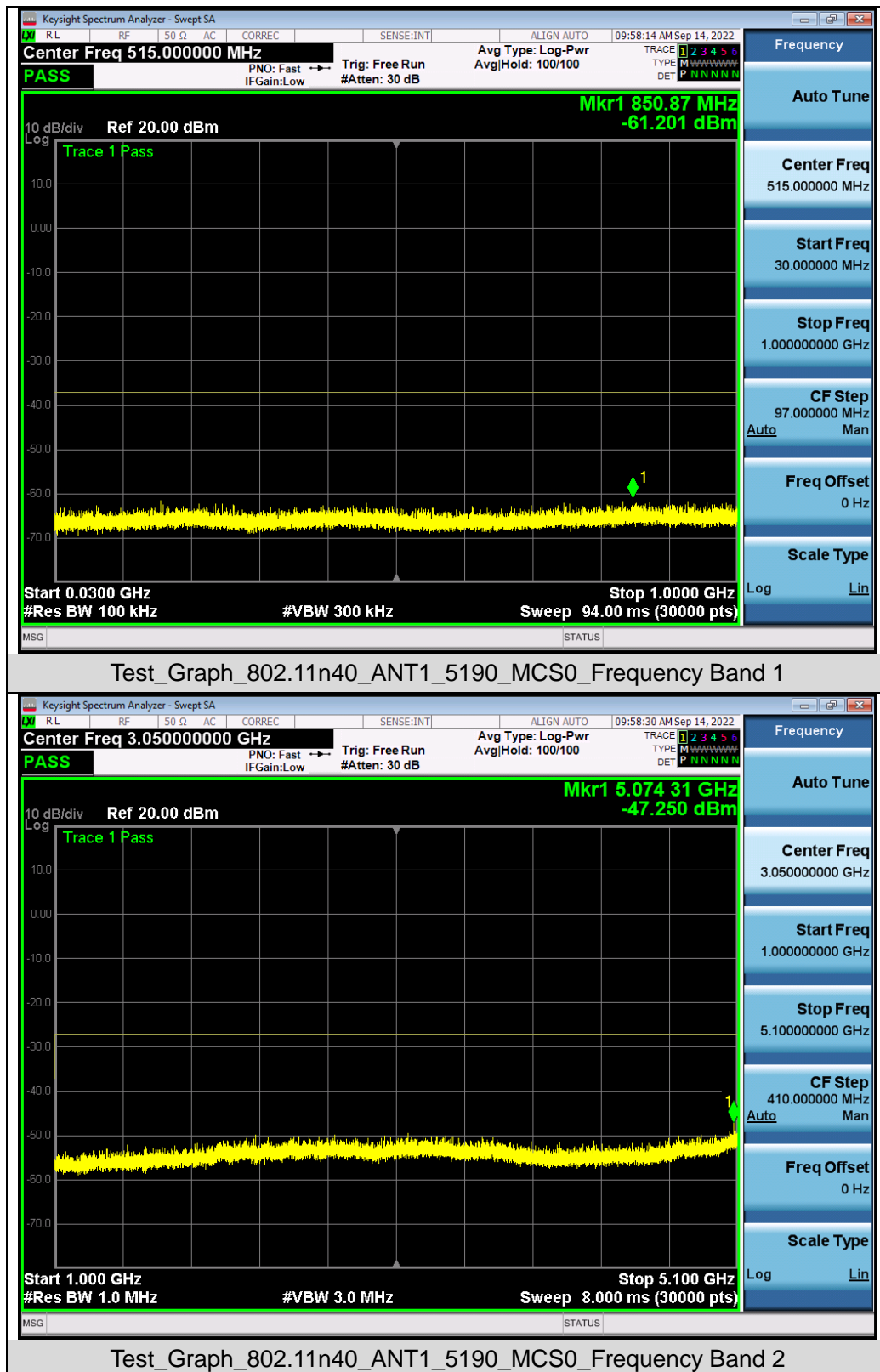
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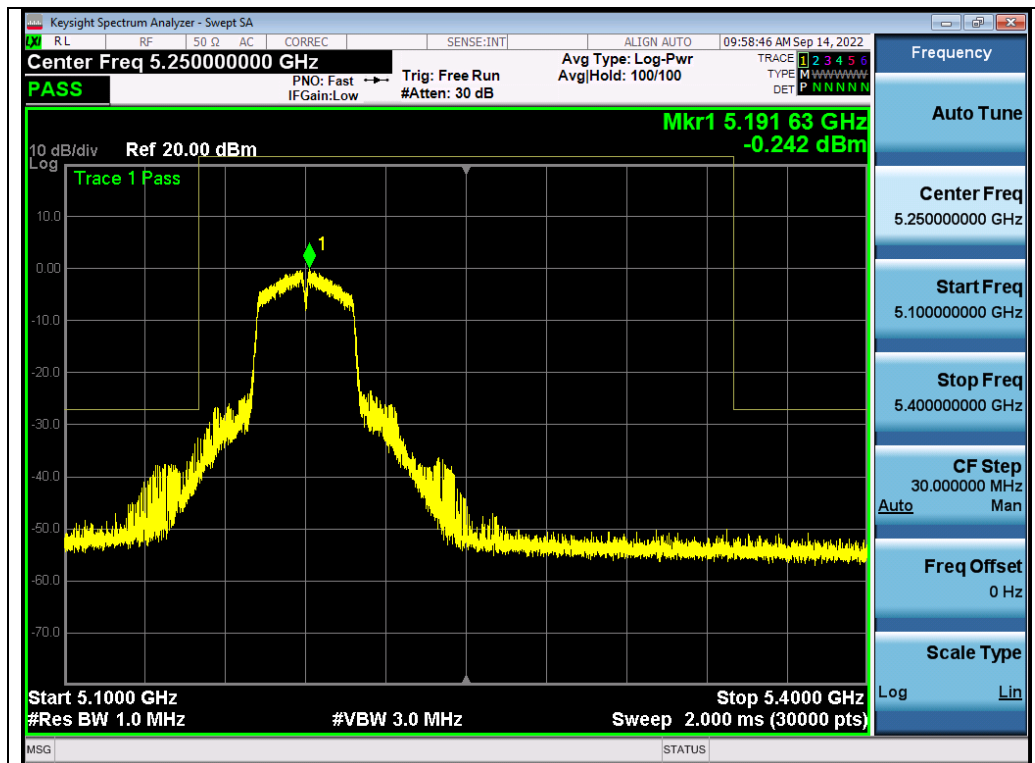
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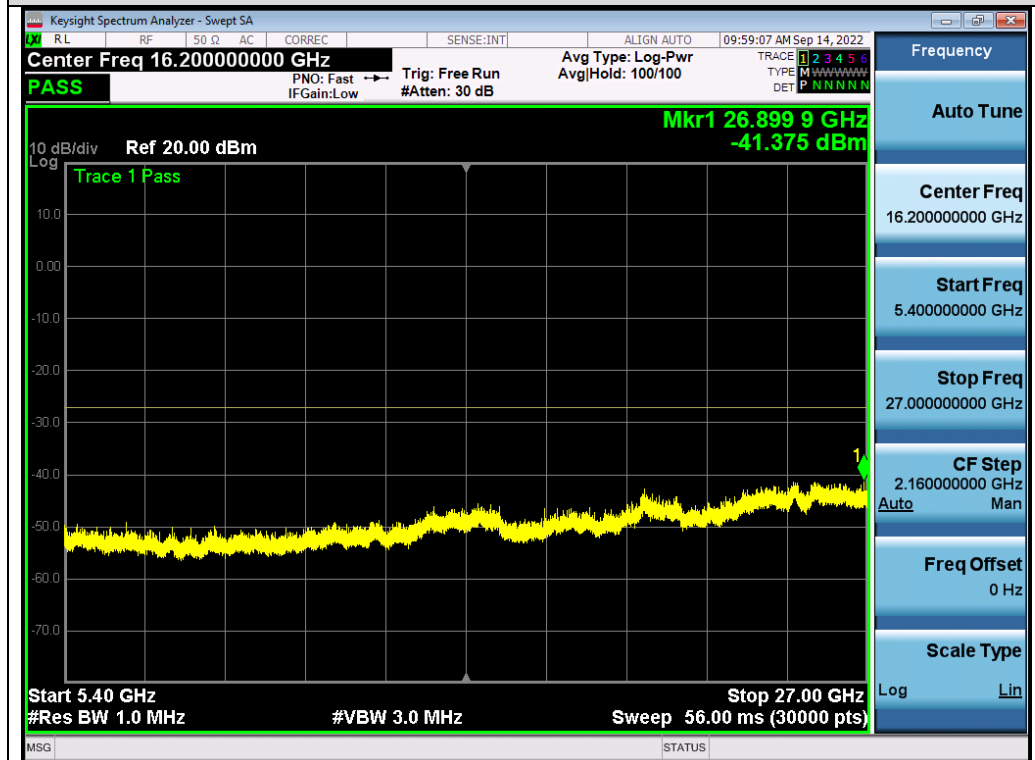
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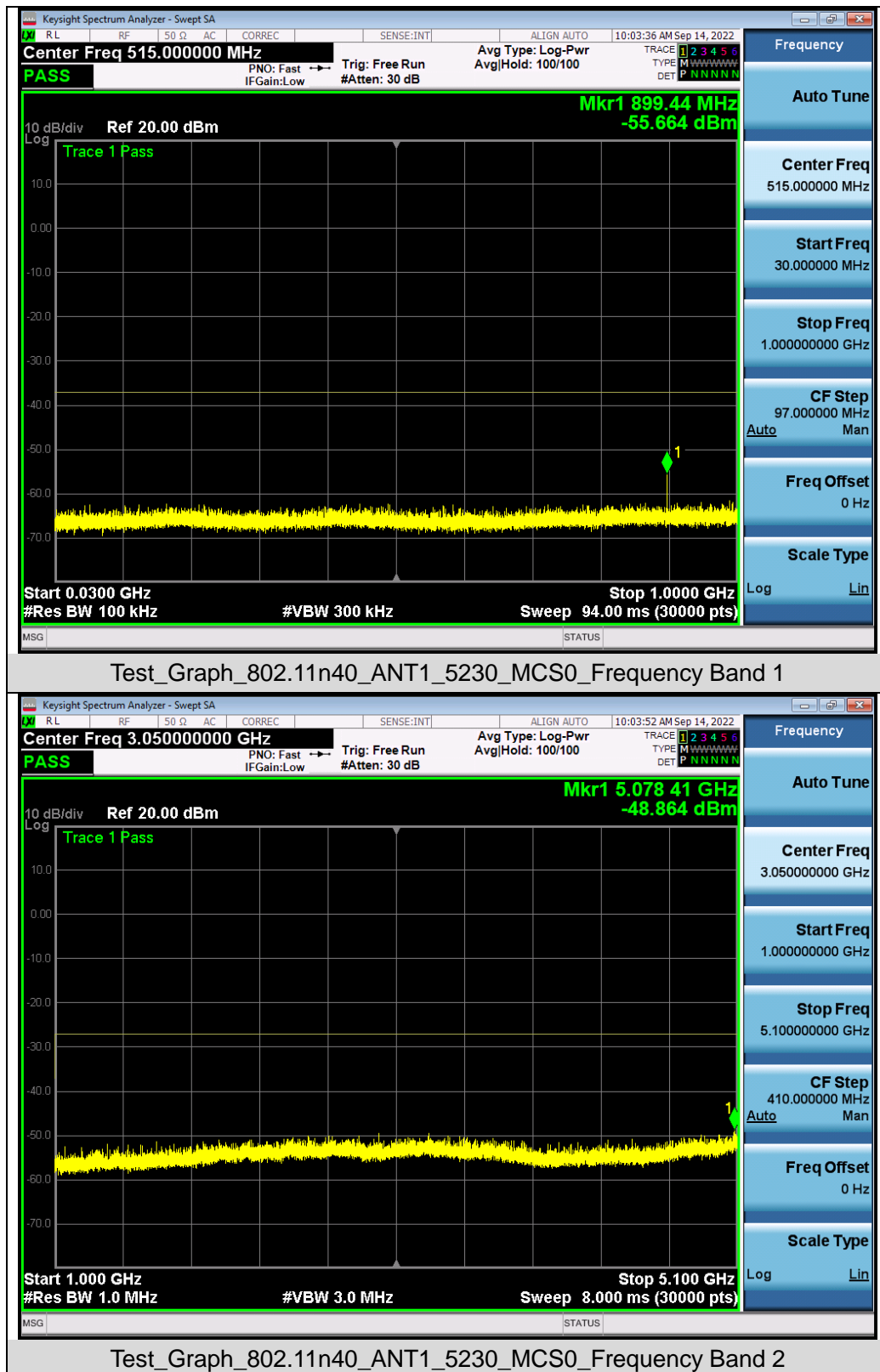


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 3

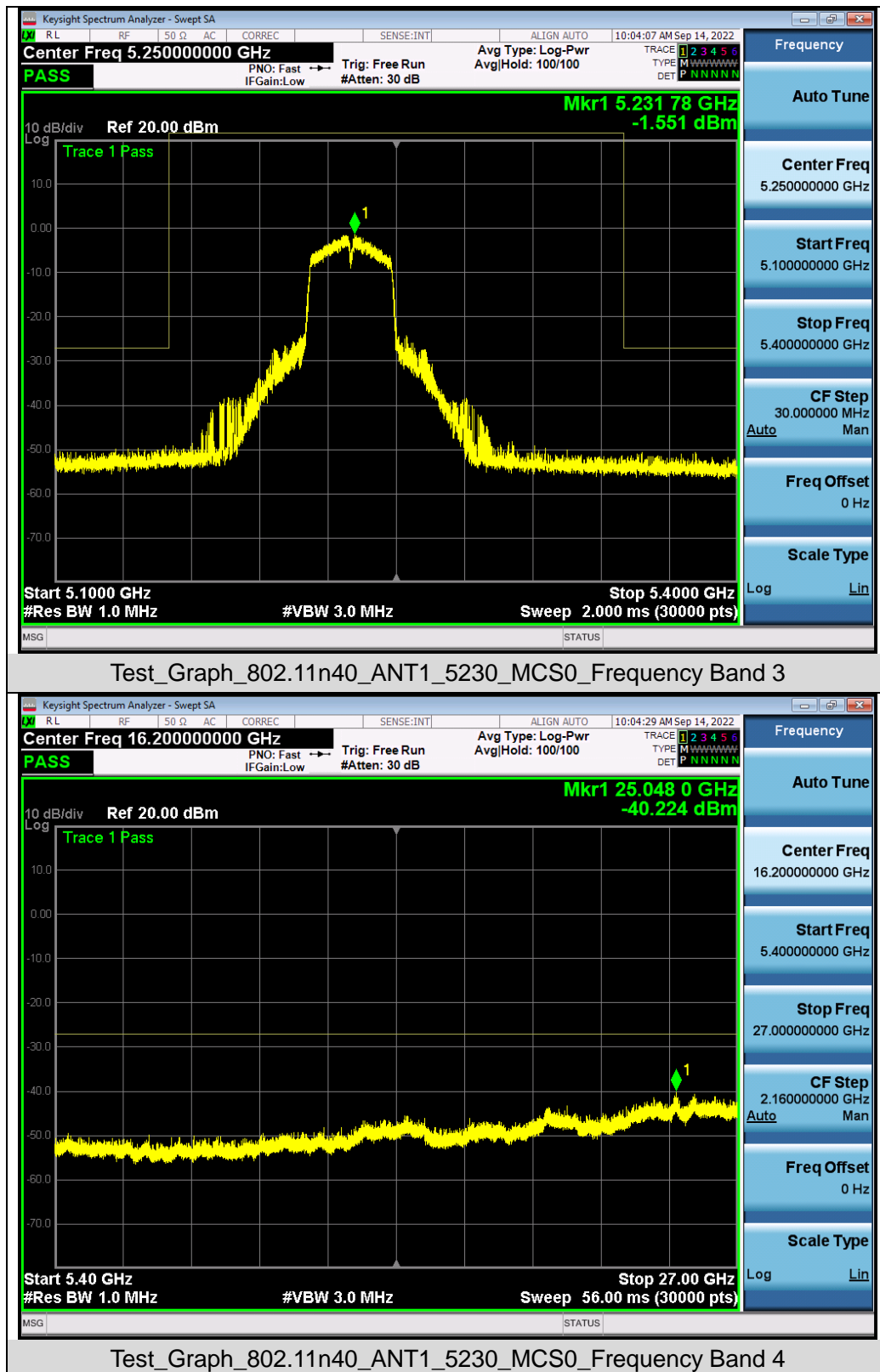


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 4

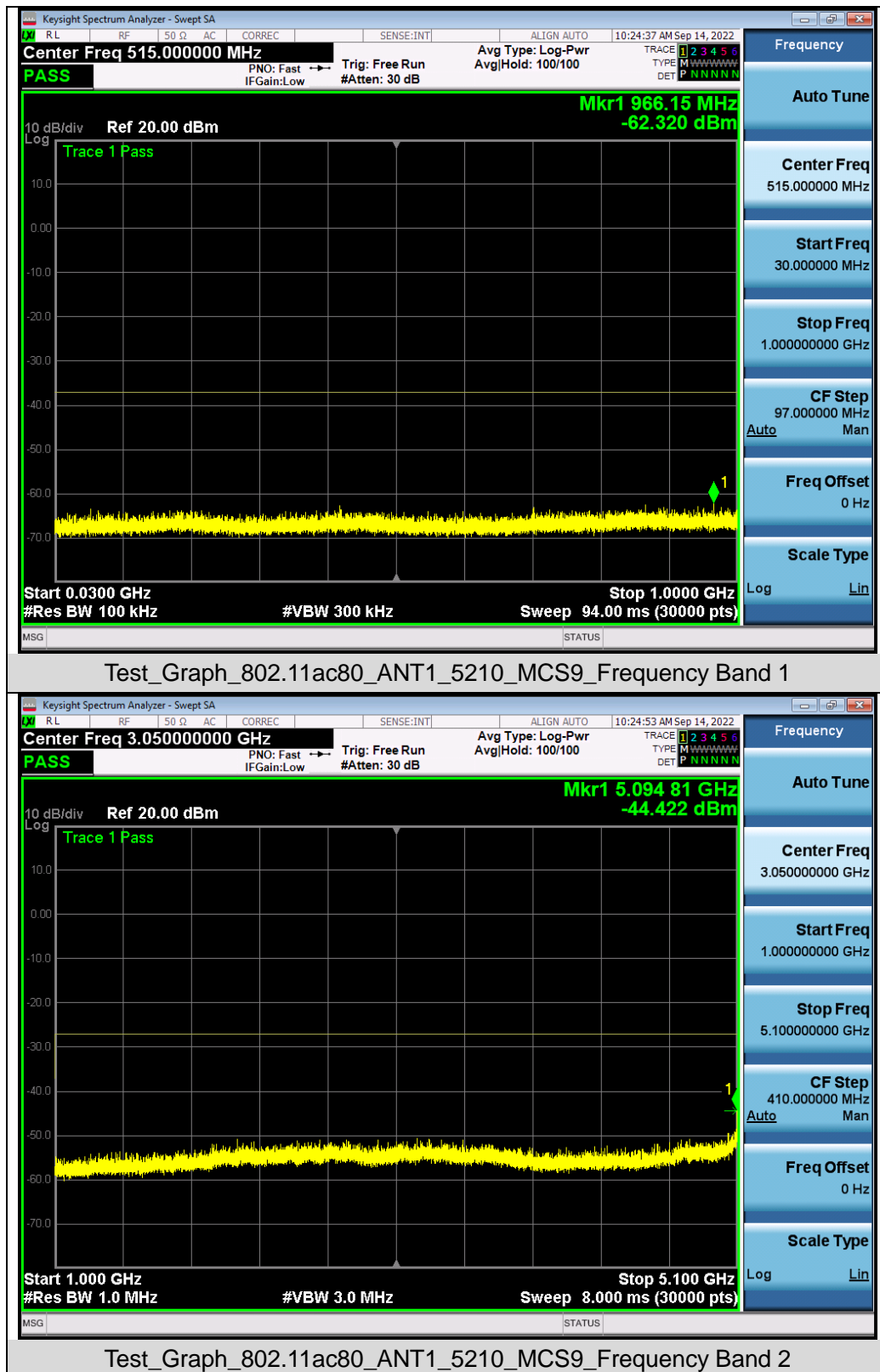
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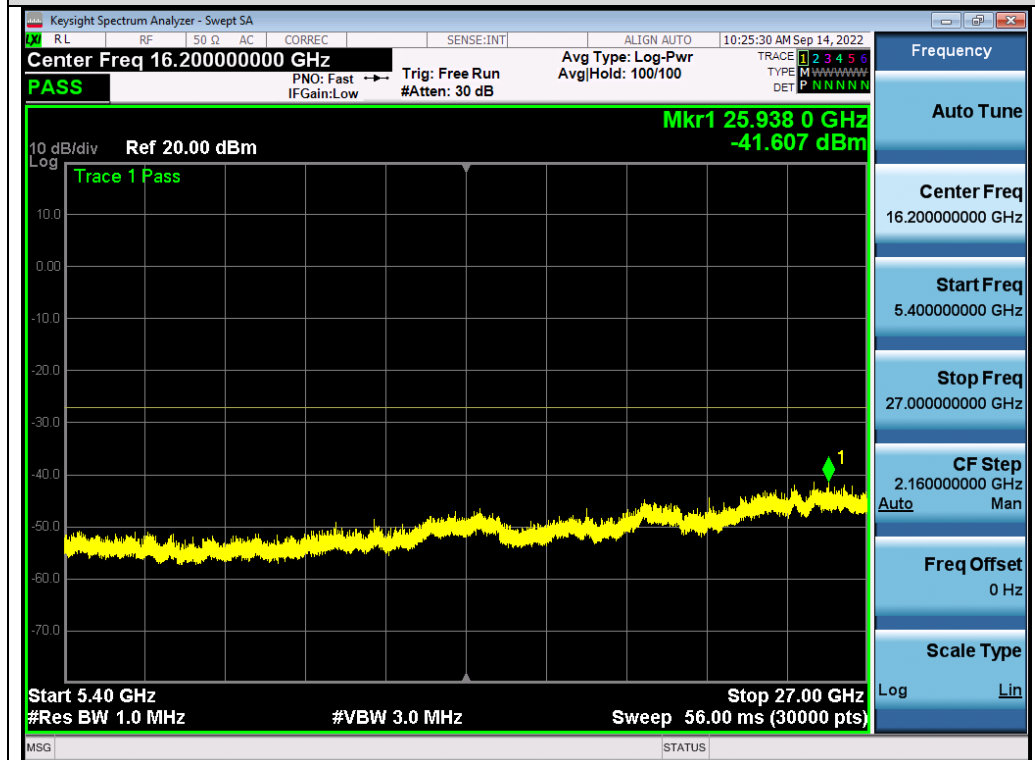
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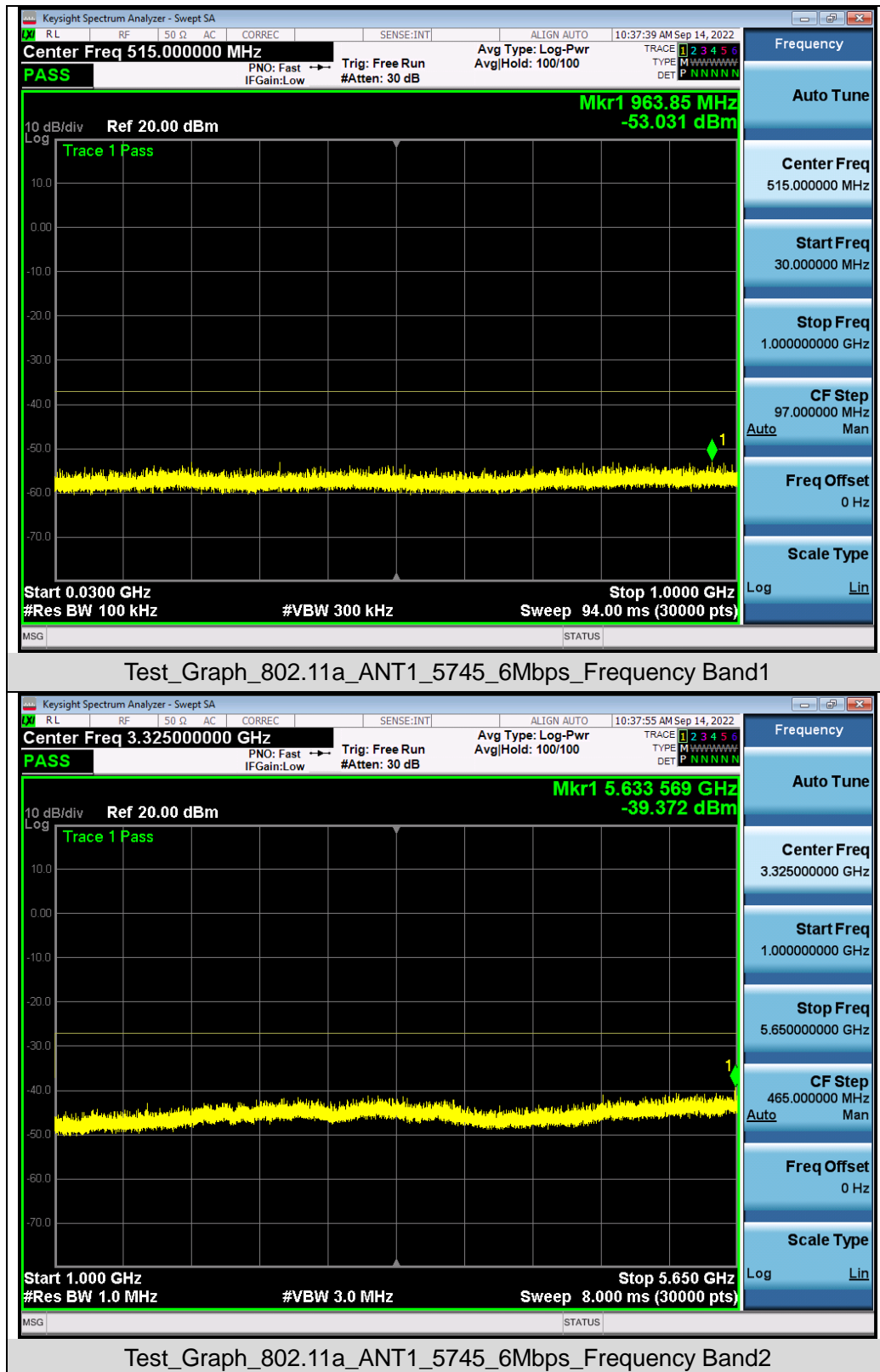
Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 3



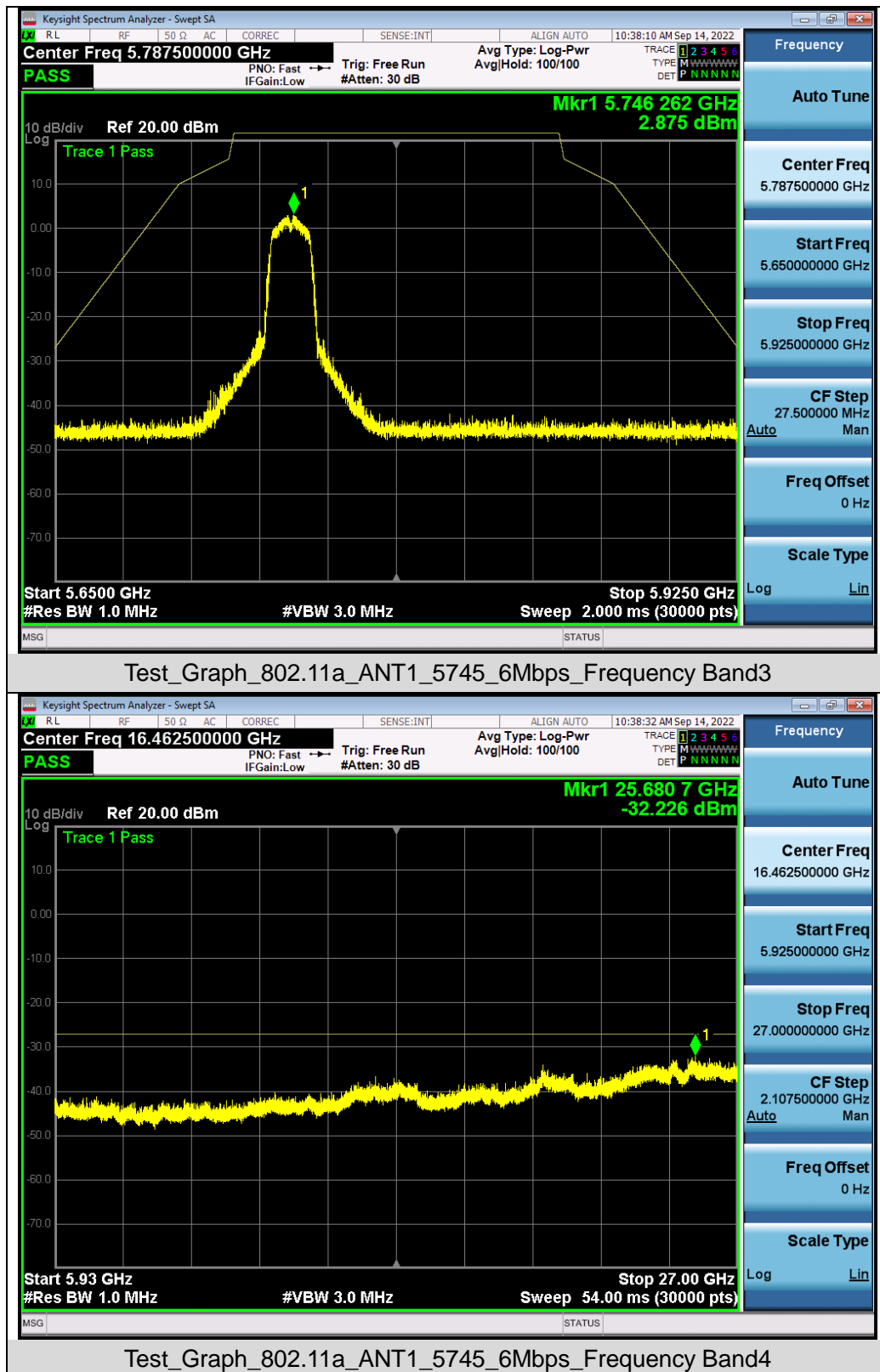
Test_Graph_802.11ac80_ANT1_5210_MCS9_Frequency Band 4

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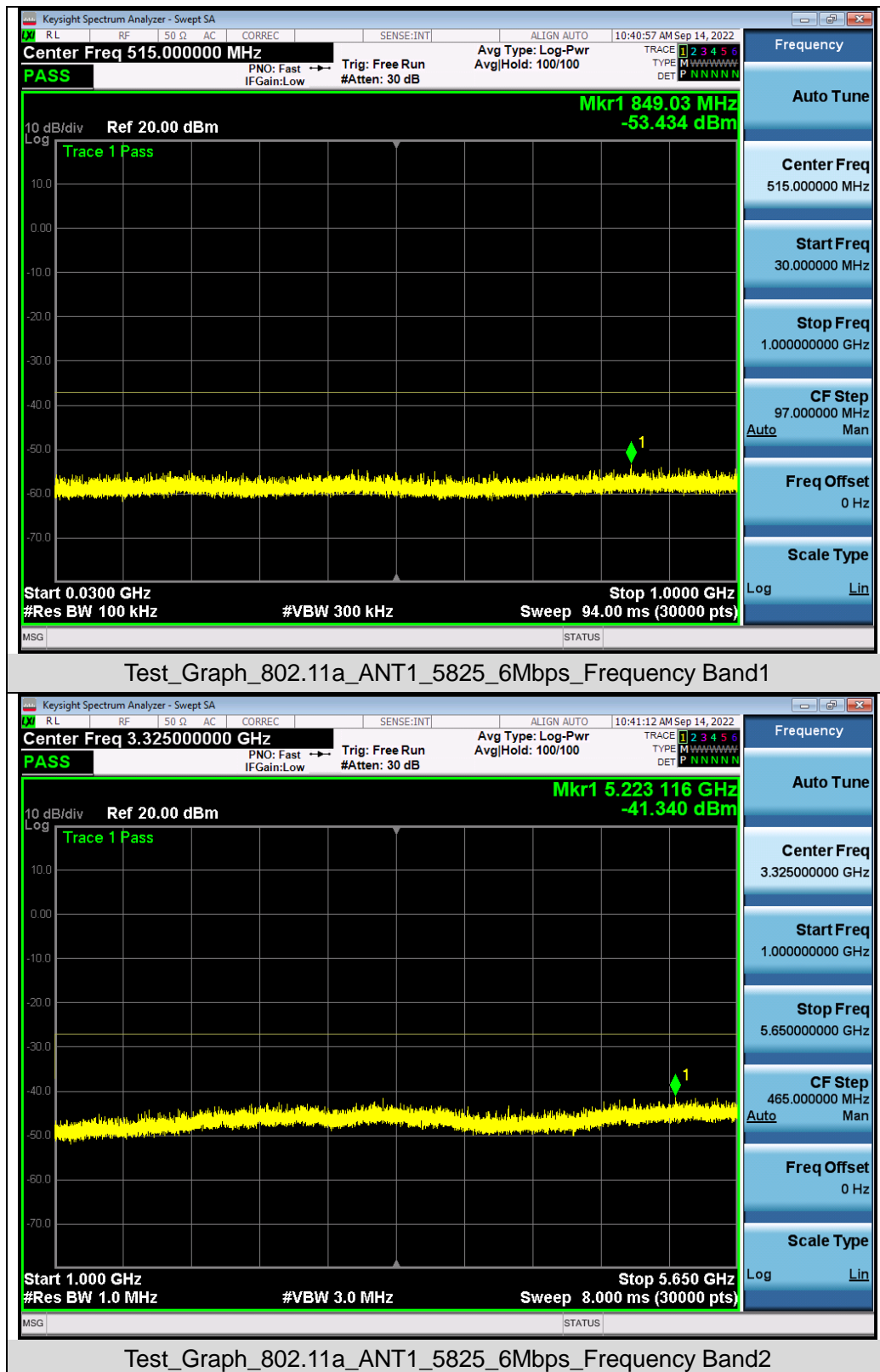
Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band-ANT1



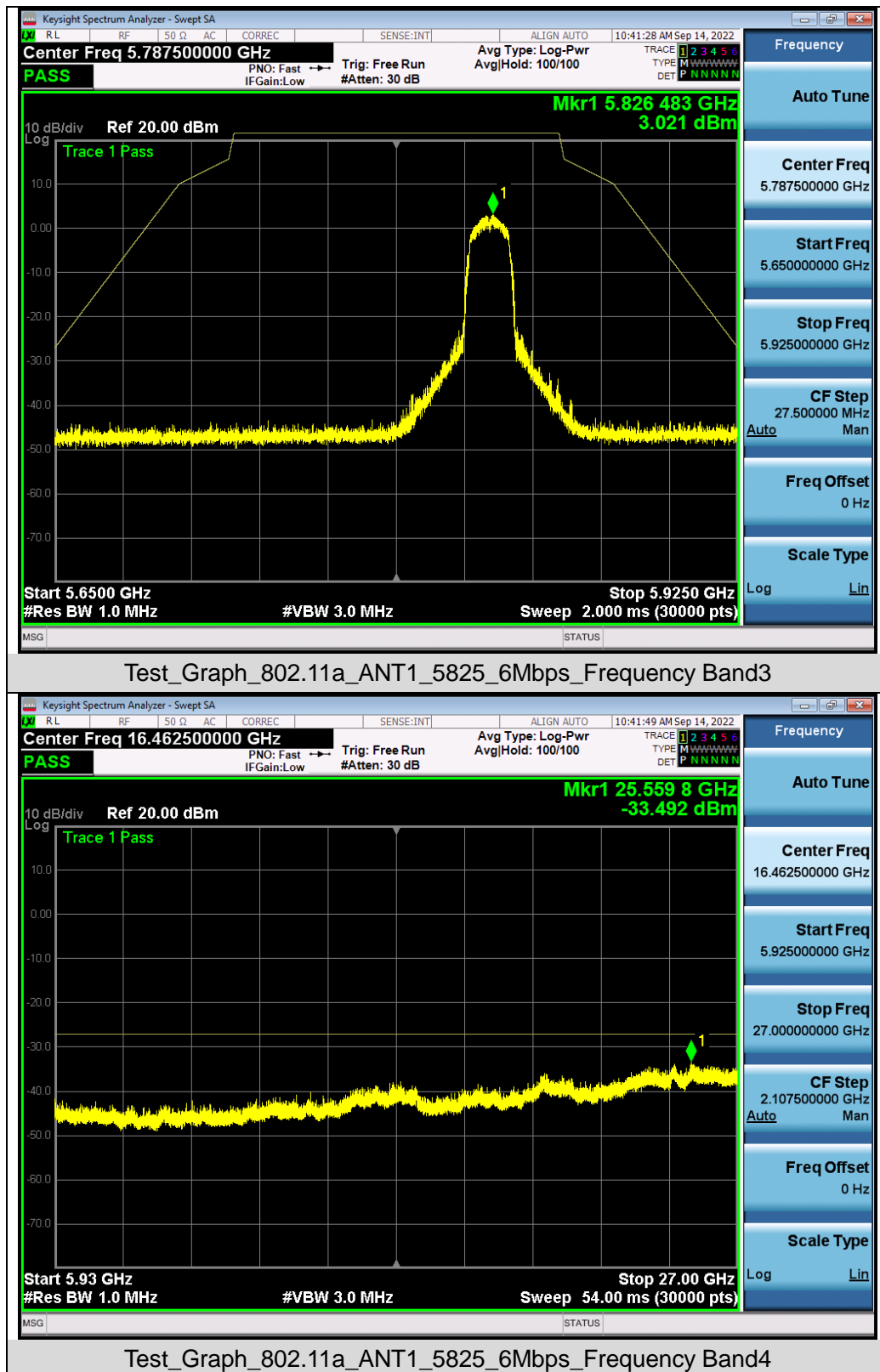
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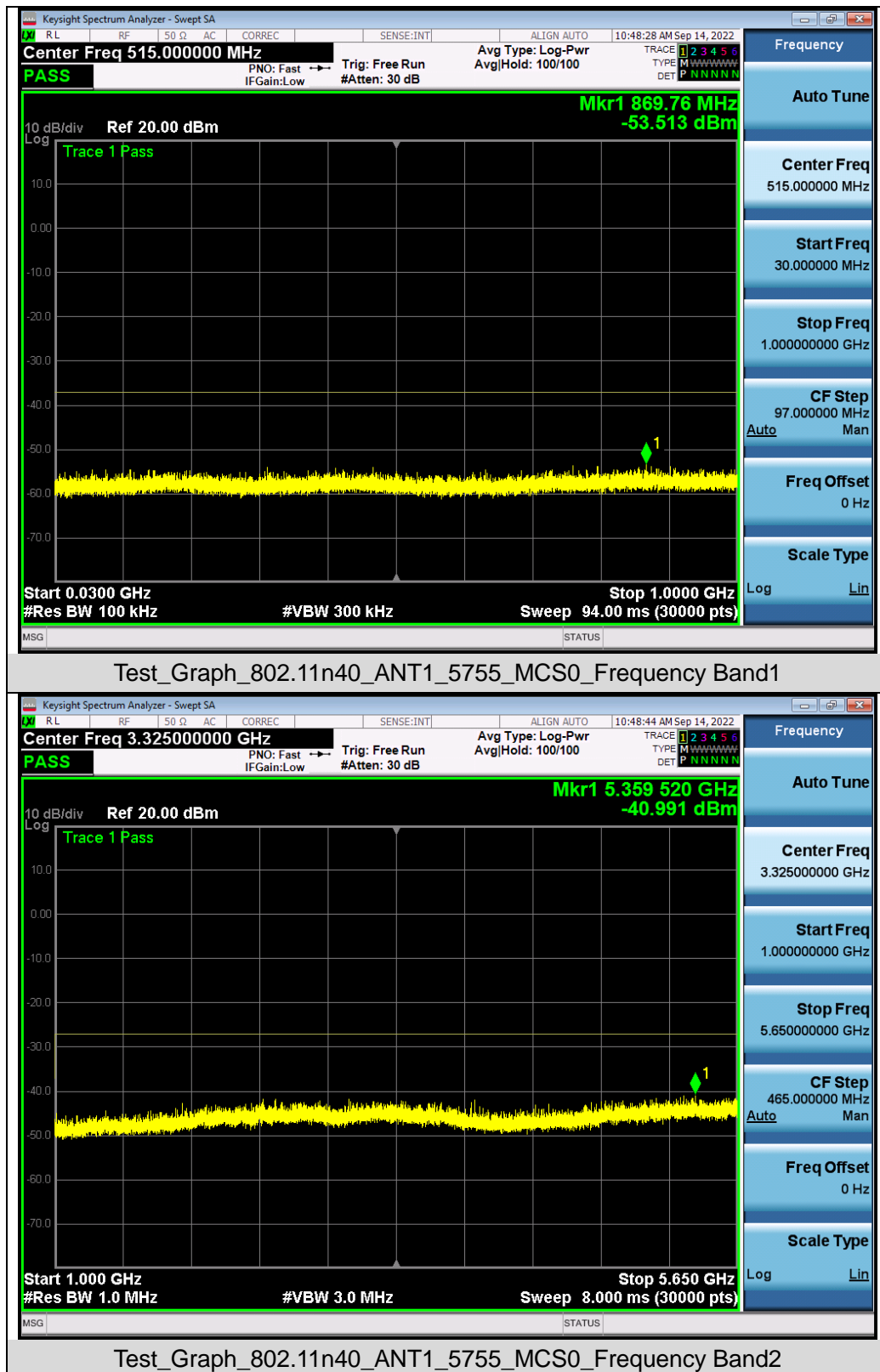
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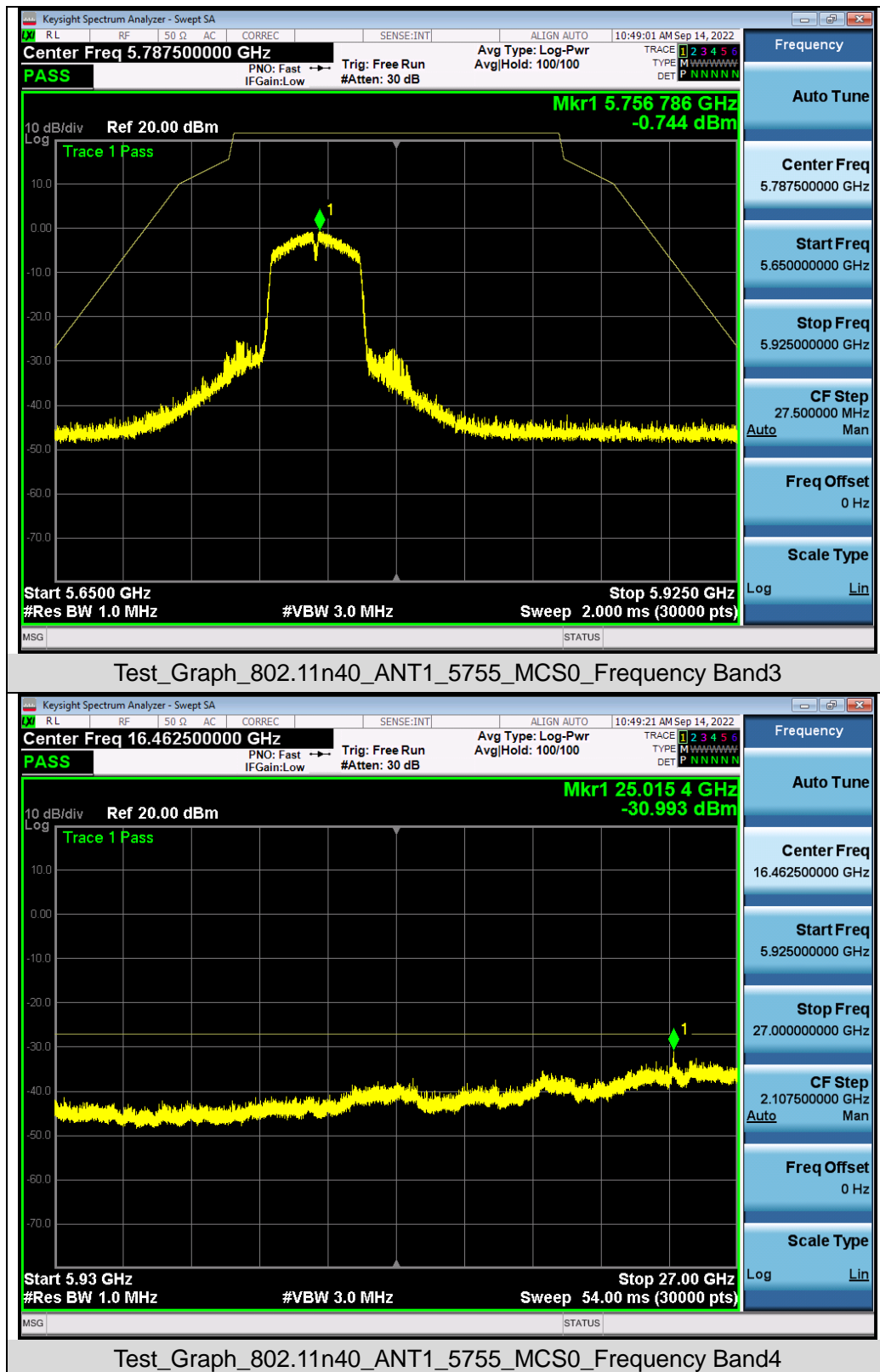
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