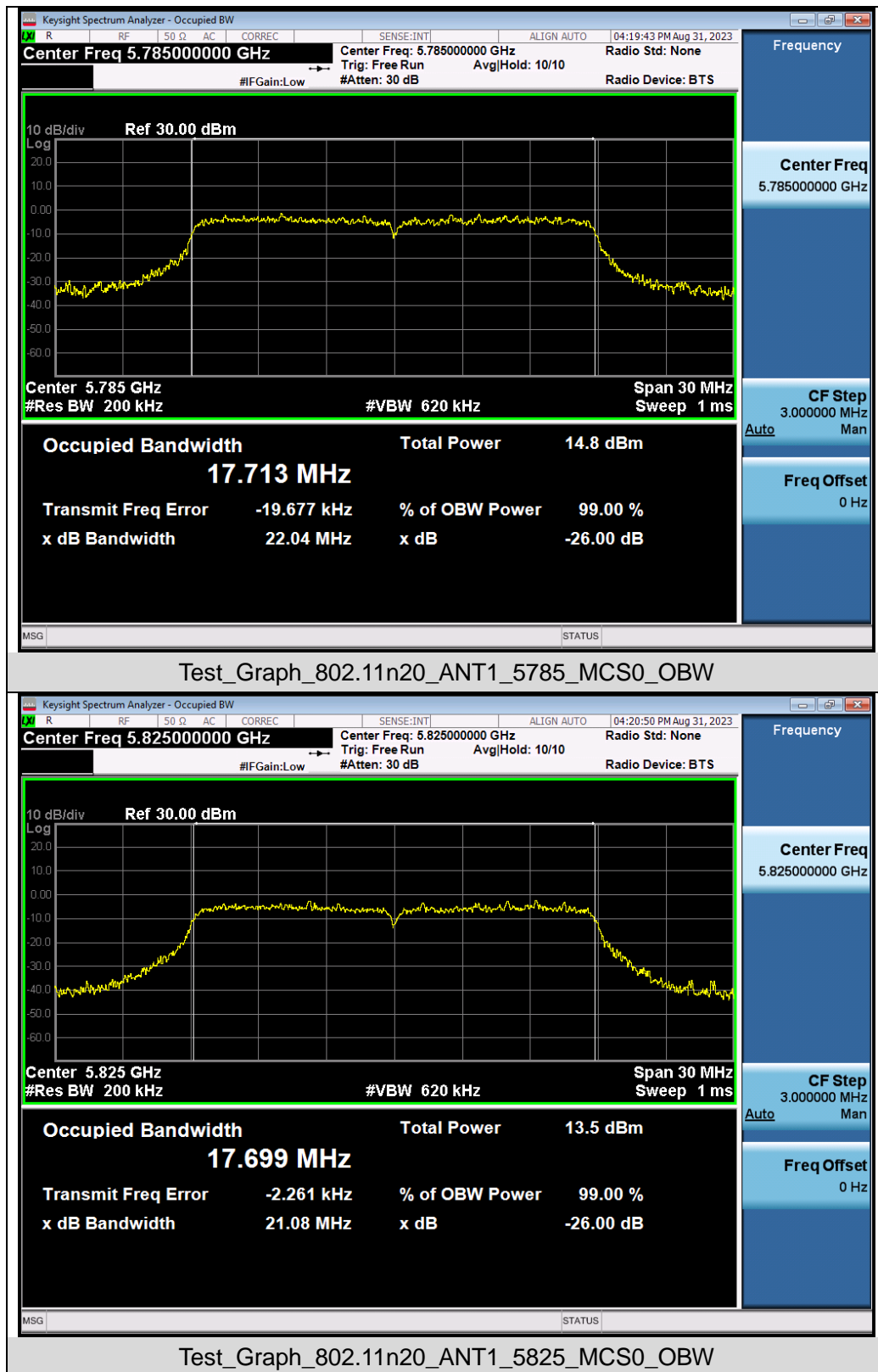


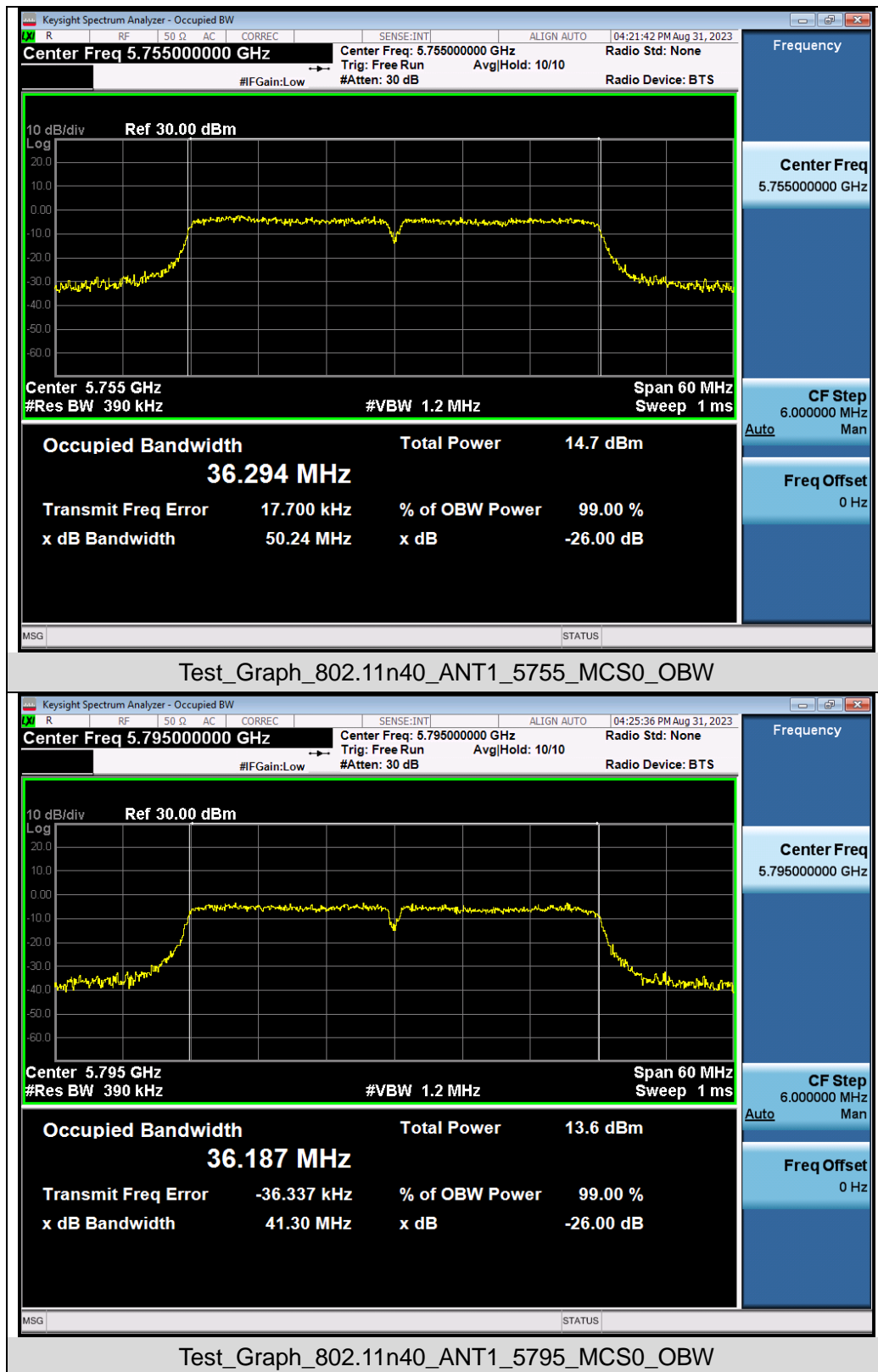
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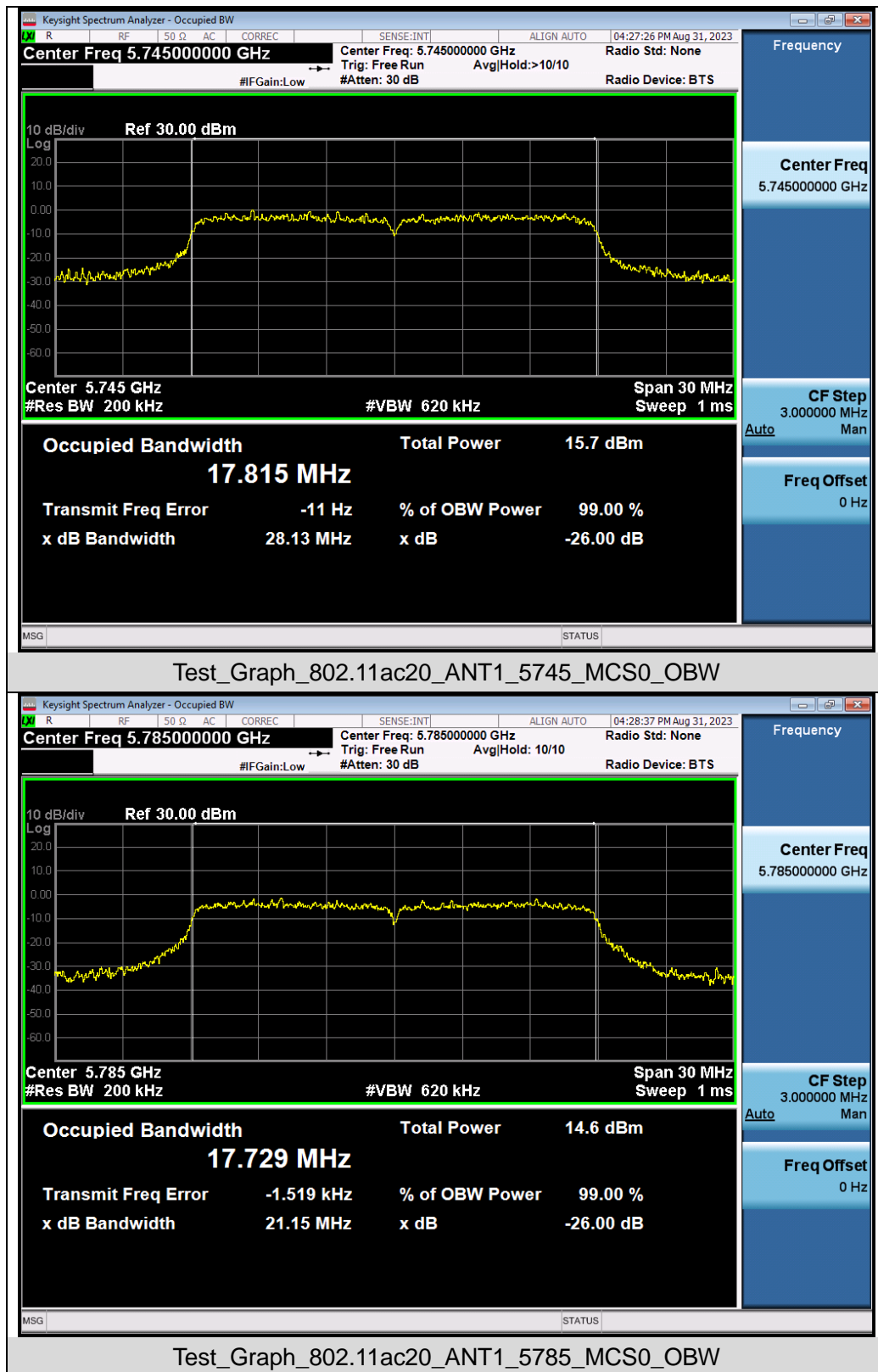
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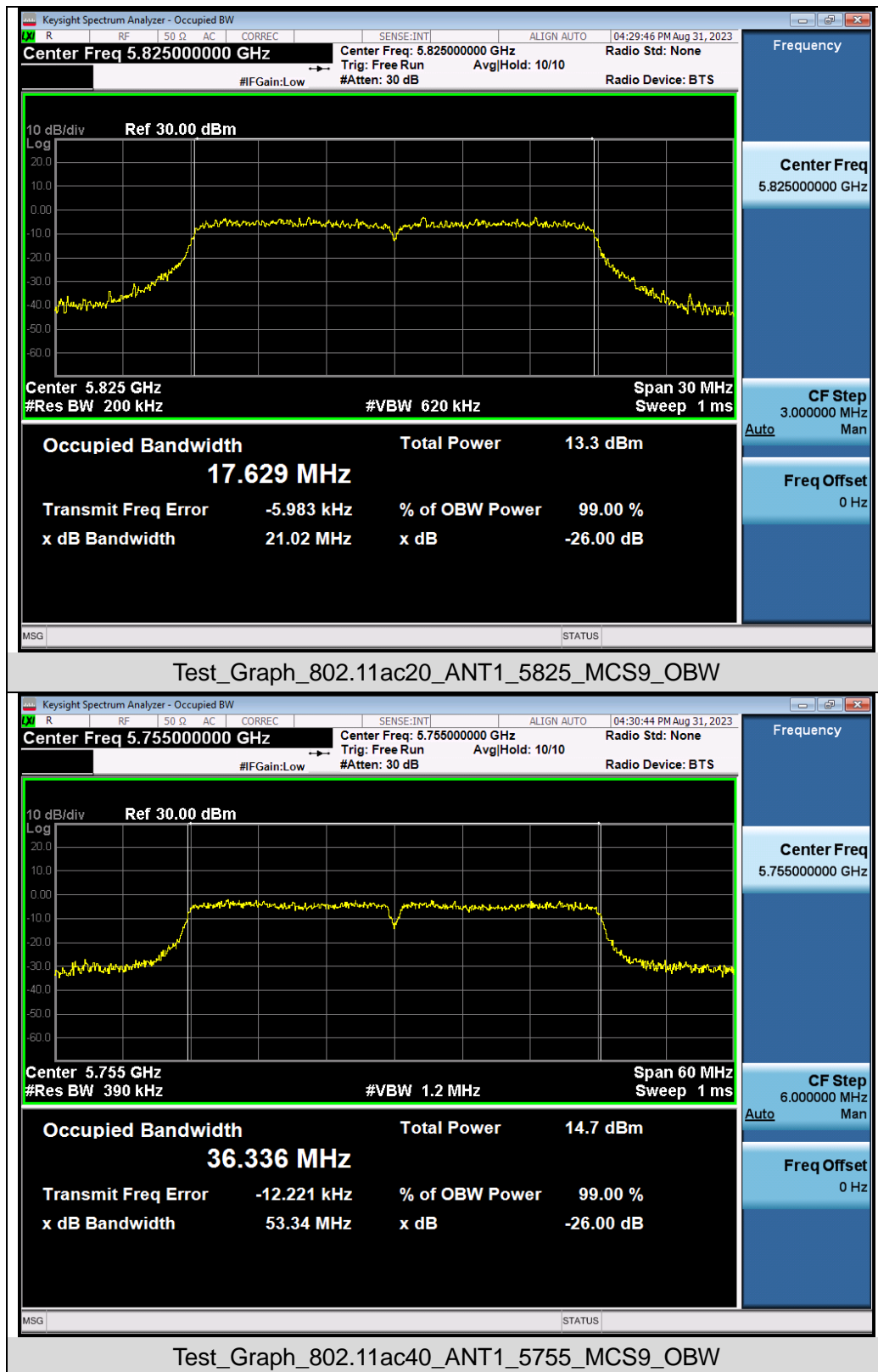
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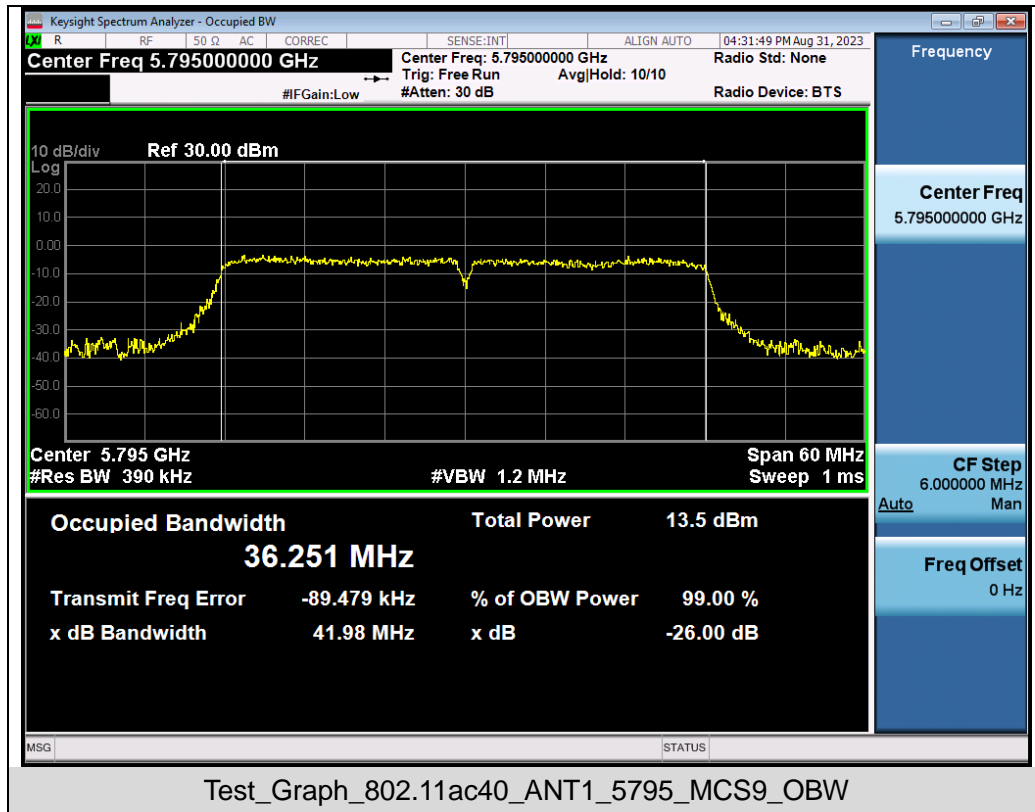
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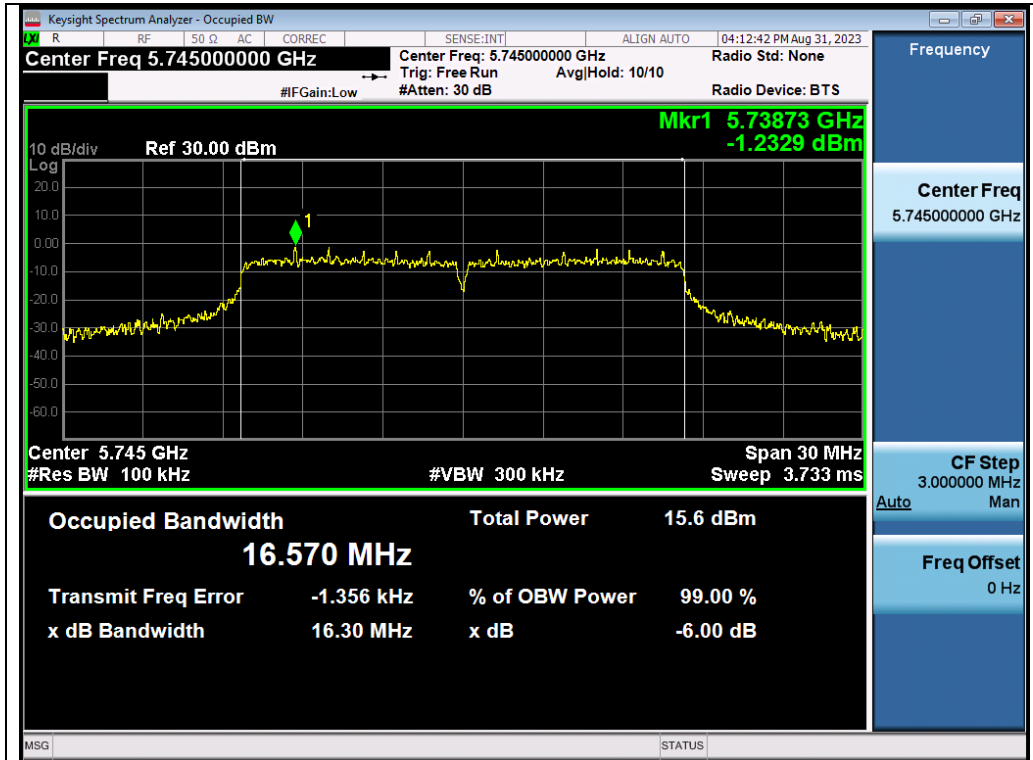
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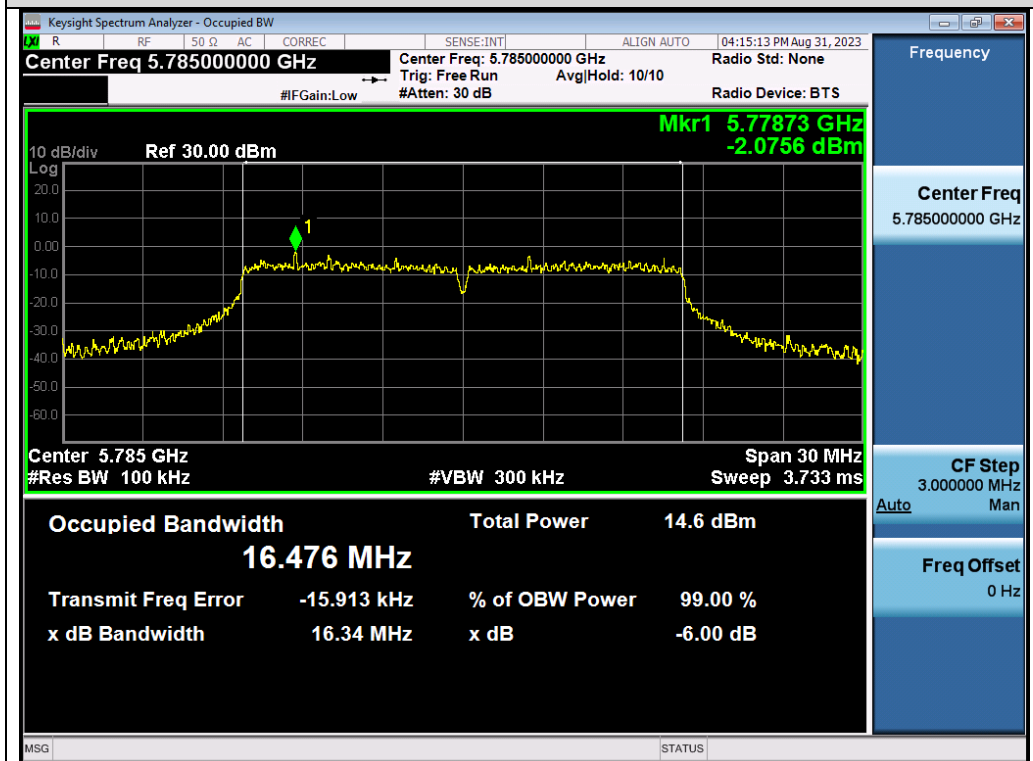


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



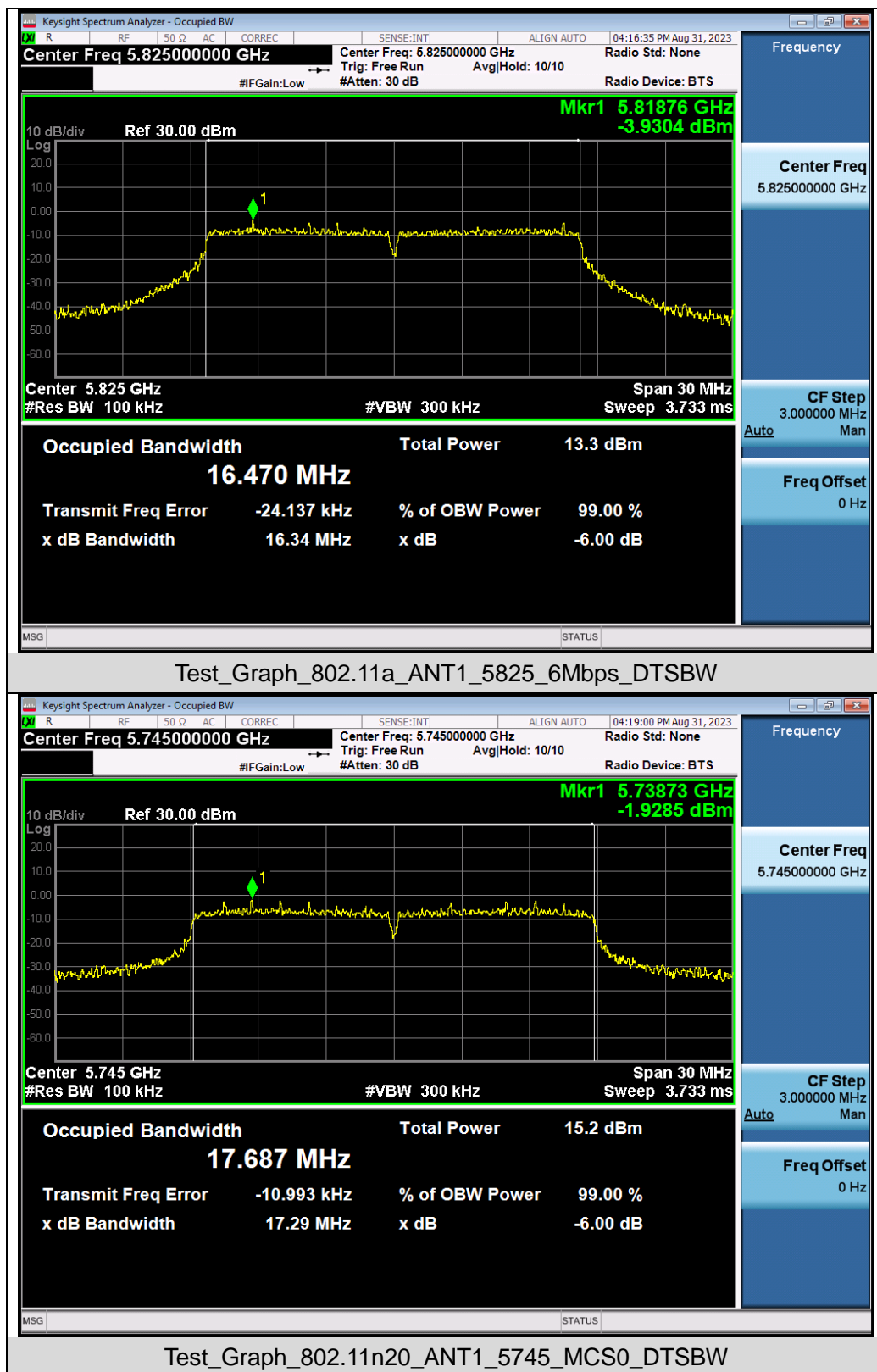
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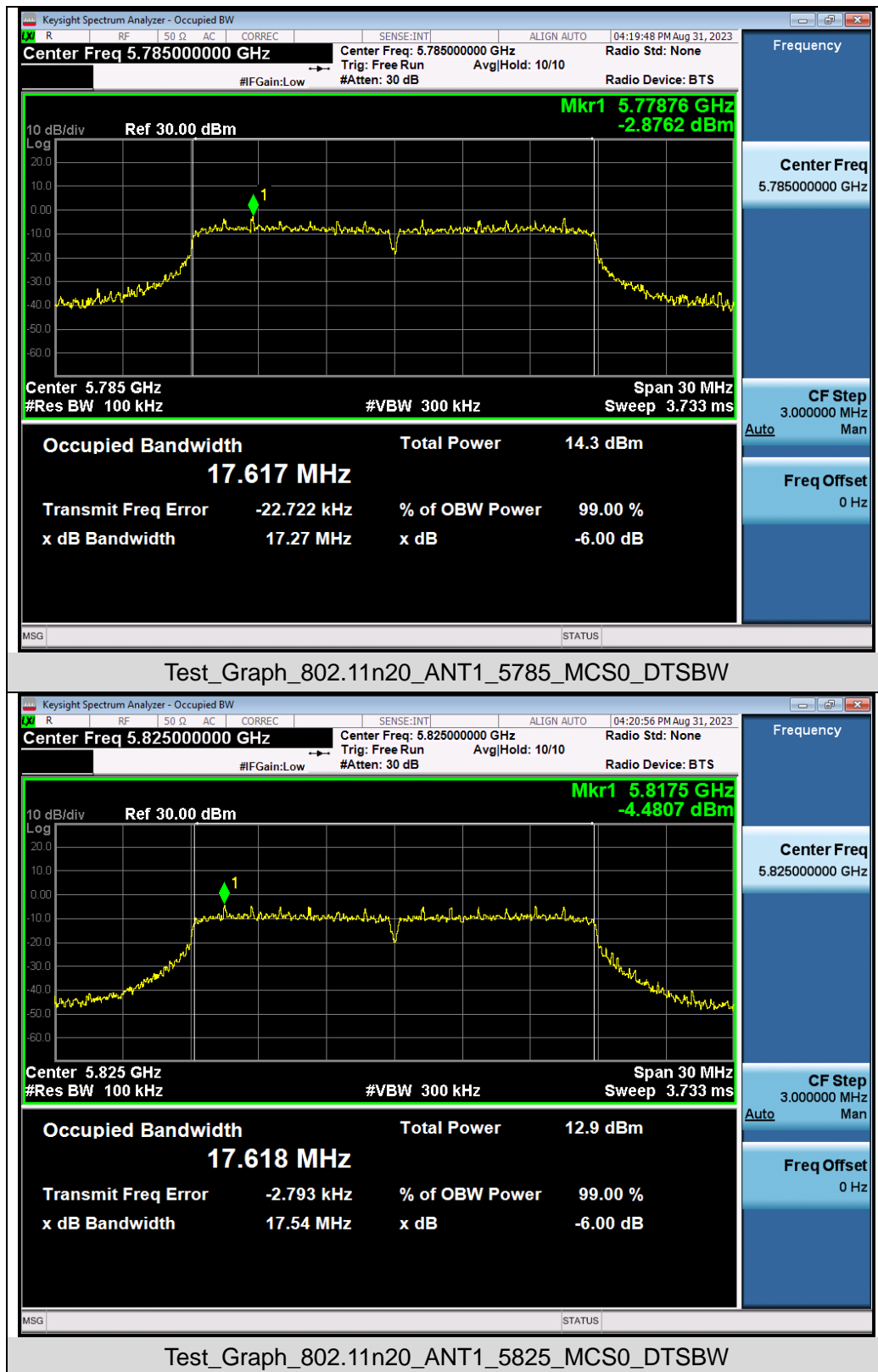
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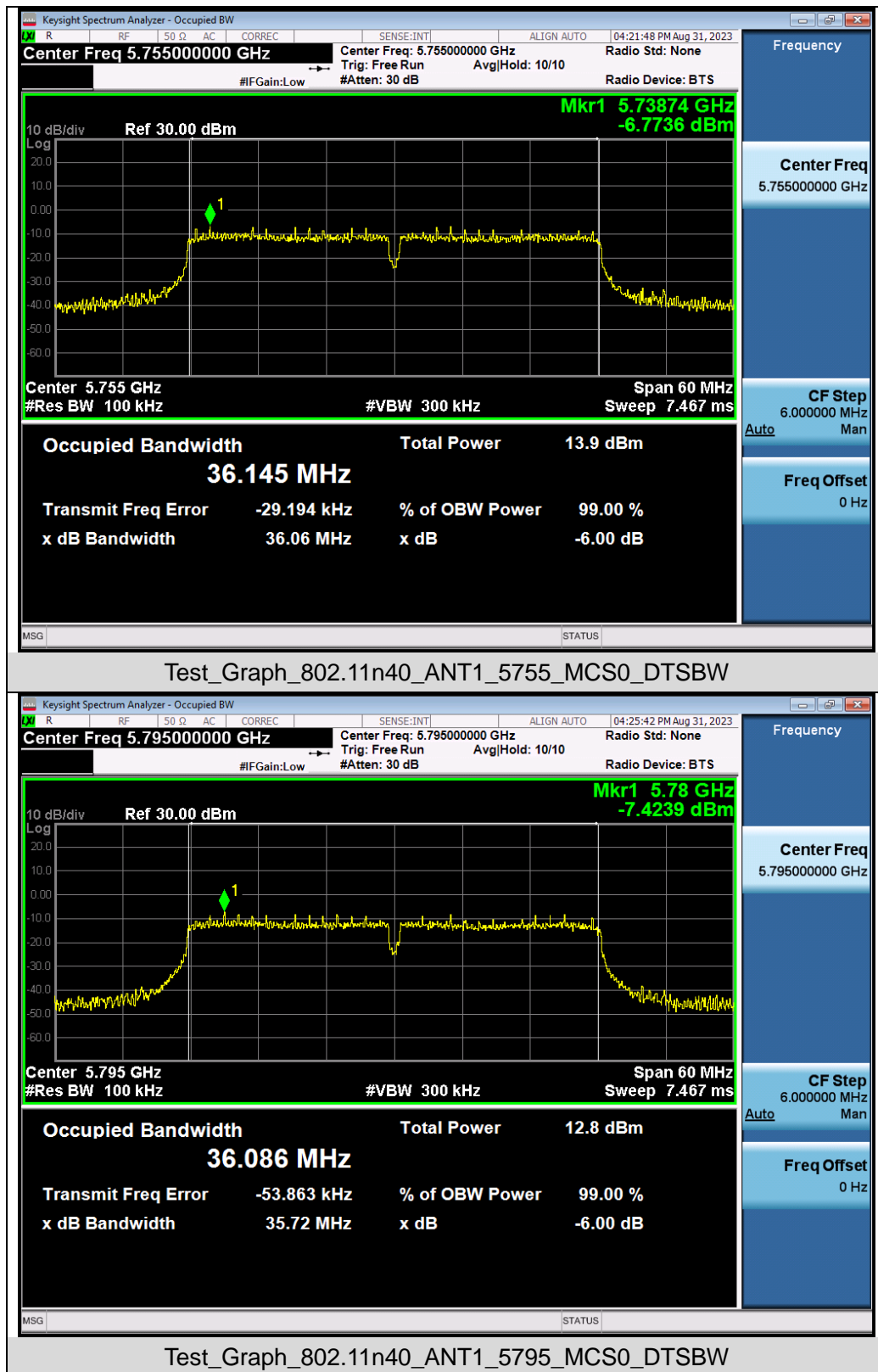


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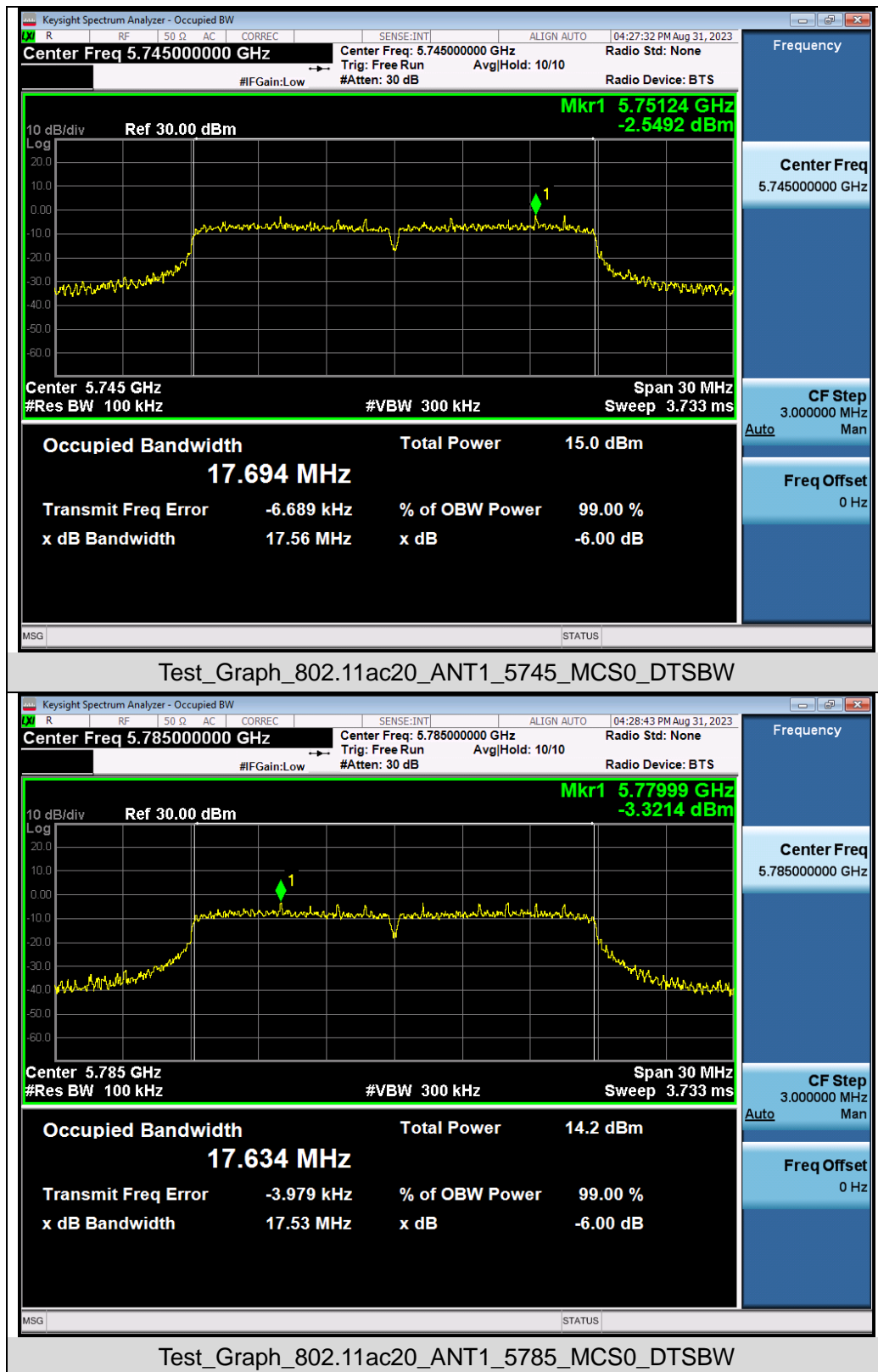
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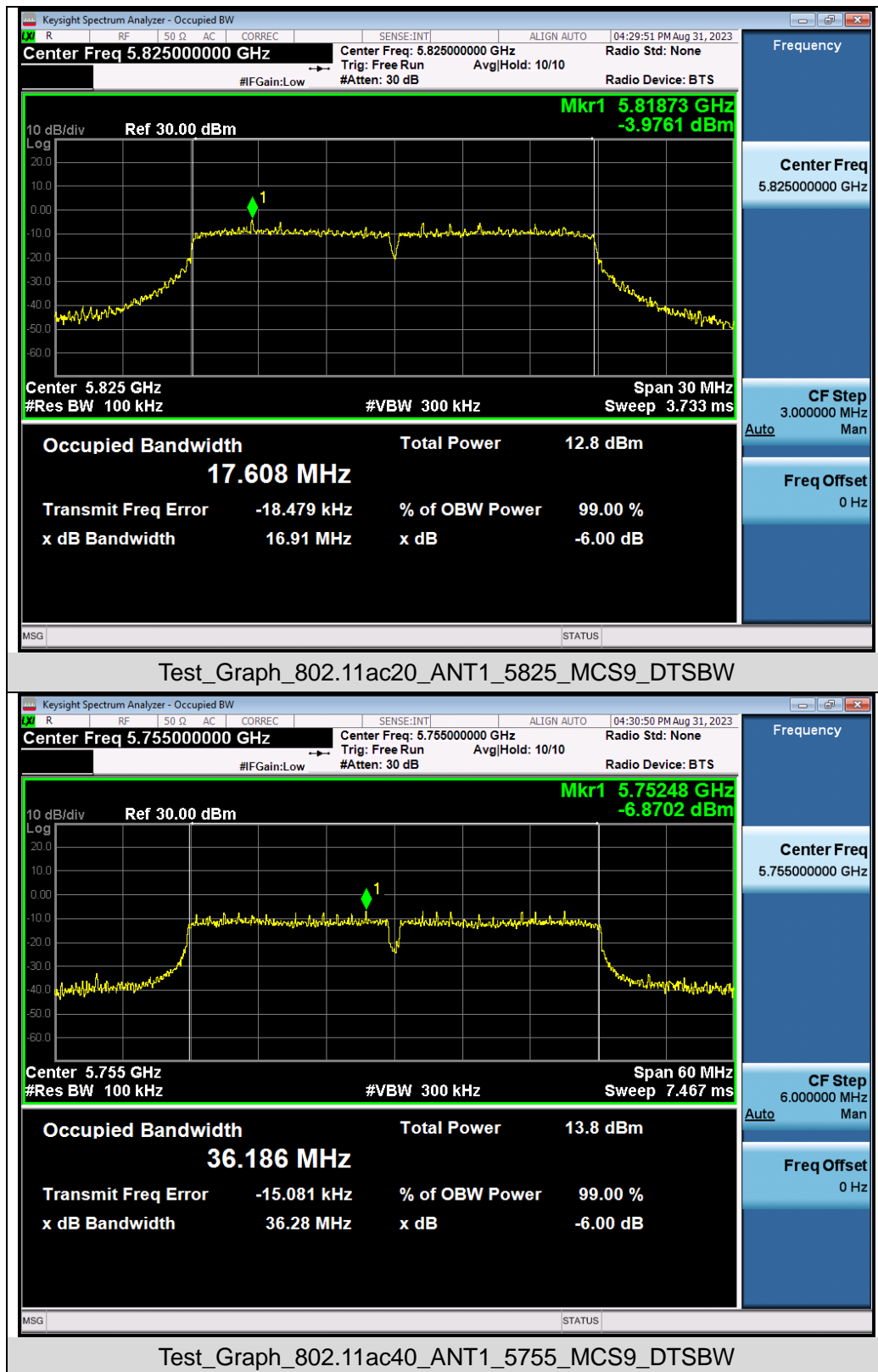
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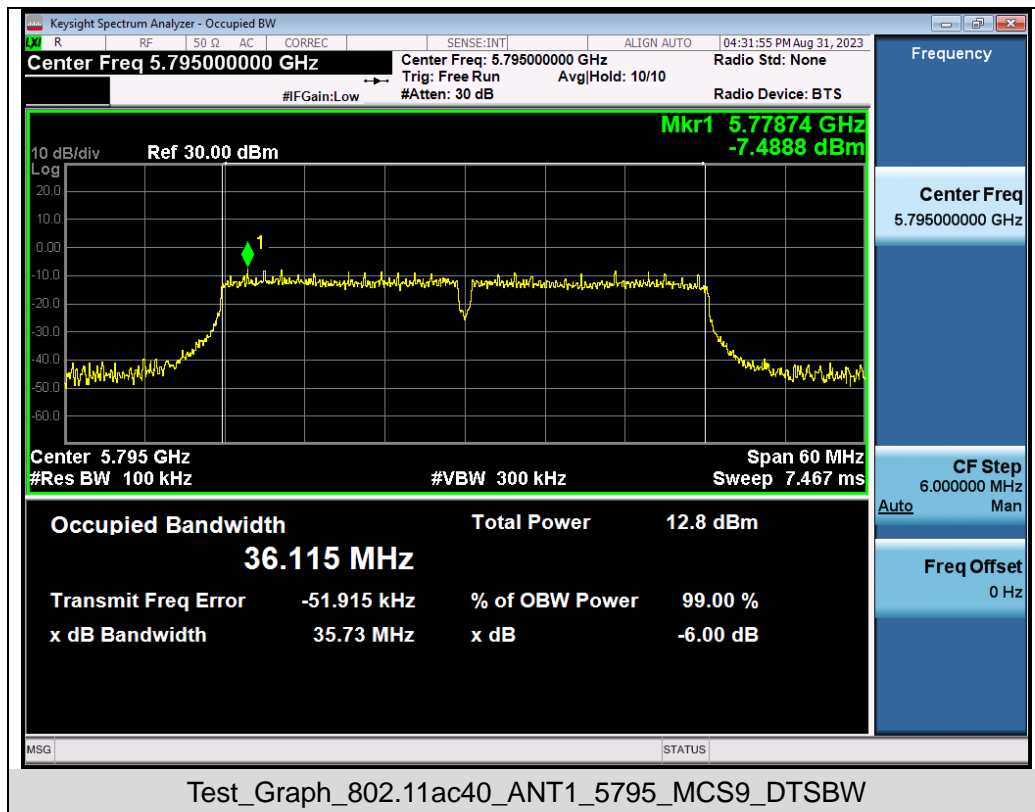
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9. POWER SPECTRAL DENSITY MEASUREMENT

9.1 MEASUREMENT LIMITS

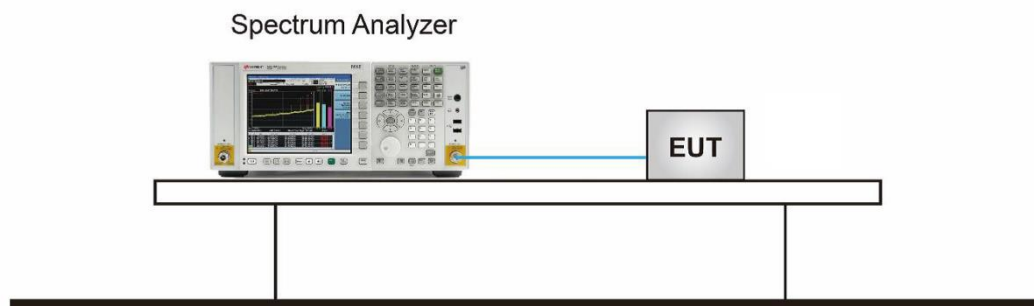
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 MEASUREMENT PROCEDURE

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyze.
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.

9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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9.4 MEASUREMENT RESULT

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	-0.273	10.81	Pass
	5200	-0.599	10.81	Pass
	5240	-0.124	10.81	Pass
802.11n20	5180	-1.129	10.81	Pass
	5200	-0.960	10.81	Pass
	5240	-1.038	10.81	Pass
802.11n40	5190	-4.577	10.81	Pass
	5230	-5.041	10.81	Pass
802.11ac20	5180	-0.918	10.81	Pass
	5200	-1.385	10.81	Pass
	5240	-0.759	10.81	Pass
802.11ac40	5190	-4.548	10.81	Pass
	5230	-4.775	10.81	Pass

Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	-2.107	10.81	Pass
	5300	-1.190	10.81	Pass
	5320	-1.056	10.81	Pass
802.11n20	5260	-2.781	10.81	Pass
	5300	-1.948	10.81	Pass
	5320	-2.174	10.81	Pass
802.11n40	5270	-6.635	10.81	Pass
	5310	-5.878	10.81	Pass
802.11ac20	5260	-2.660	10.81	Pass
	5300	-2.295	10.81	Pass
	5320	-2.118	10.81	Pass
802.11ac40	5270	-6.439	10.81	Pass
	5310	-6.574	10.81	Pass

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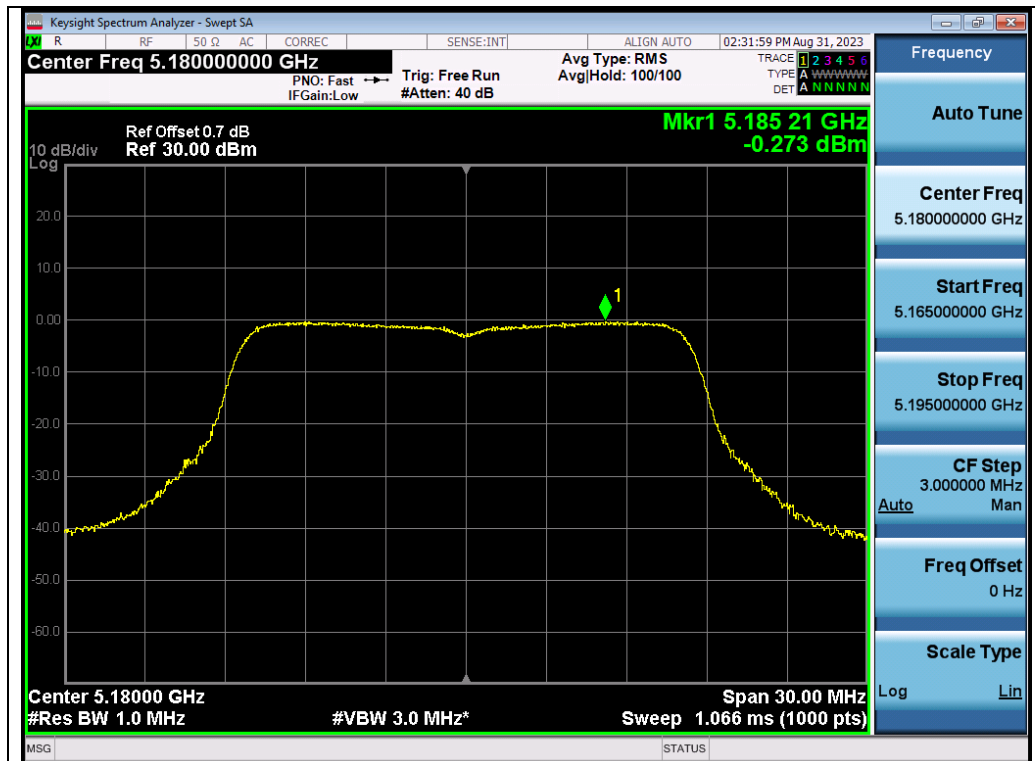
Test Data of Conducted Output Power Density for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	-2.359	10.81	Pass
	5600	-2.038	10.81	Pass
	5700	-0.885	10.81	Pass
802.11n20	5500	-2.807	10.81	Pass
	5600	-2.498	10.81	Pass
	5700	-1.438	10.81	Pass
802.11n40	5510	-6.447	10.81	Pass
	5590	-6.340	10.81	Pass
	5670	-5.161	10.81	Pass
802.11ac20	5500	-3.048	10.81	Pass
	5600	-2.624	10.81	Pass
	5700	-1.642	10.81	Pass
802.11ac40	5510	-6.535	10.81	Pass
	5590	-5.665	10.81	Pass
	5670	-4.824	10.81	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-9.178	-2.188	29.81	Pass
	5785	-10.501	-3.511	29.81	Pass
	5825	-11.818	-4.828	29.81	Pass
802.11n20	5745	-10.246	-3.256	29.81	Pass
	5785	-10.708	-3.718	29.81	Pass
	5825	-11.967	-4.977	29.81	Pass
802.11n40	5755	-13.061	-6.071	29.81	Pass
	5795	-14.818	-7.828	29.81	Pass
802.11ac20	5745	-10.405	-3.415	29.81	Pass
	5785	-11.010	-4.020	29.81	Pass
	5825	-12.264	-5.274	29.81	Pass
802.11ac40	5755	-13.675	-6.685	29.81	Pass
	5795	-14.424	-7.434	29.81	Pass

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

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

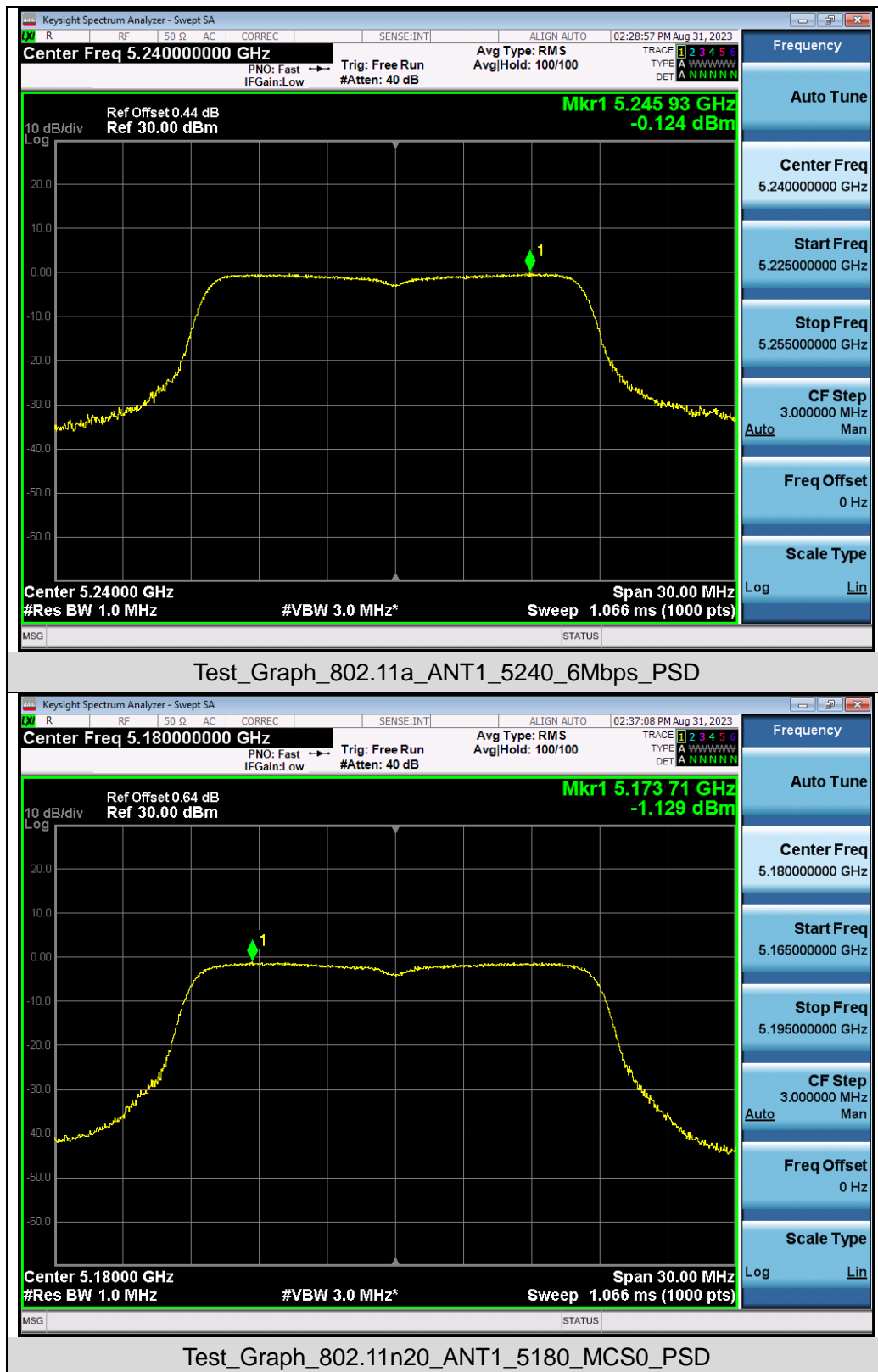


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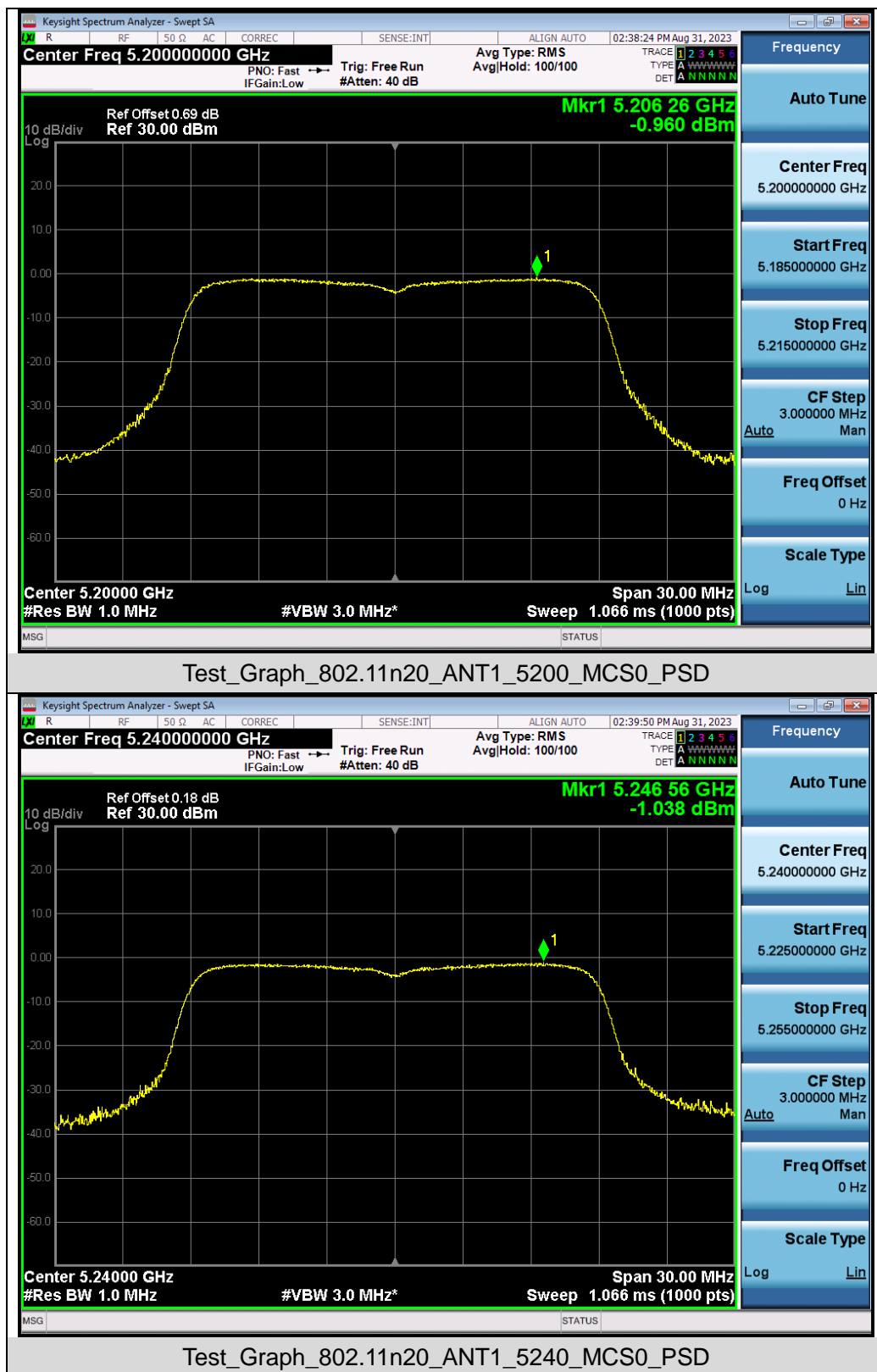
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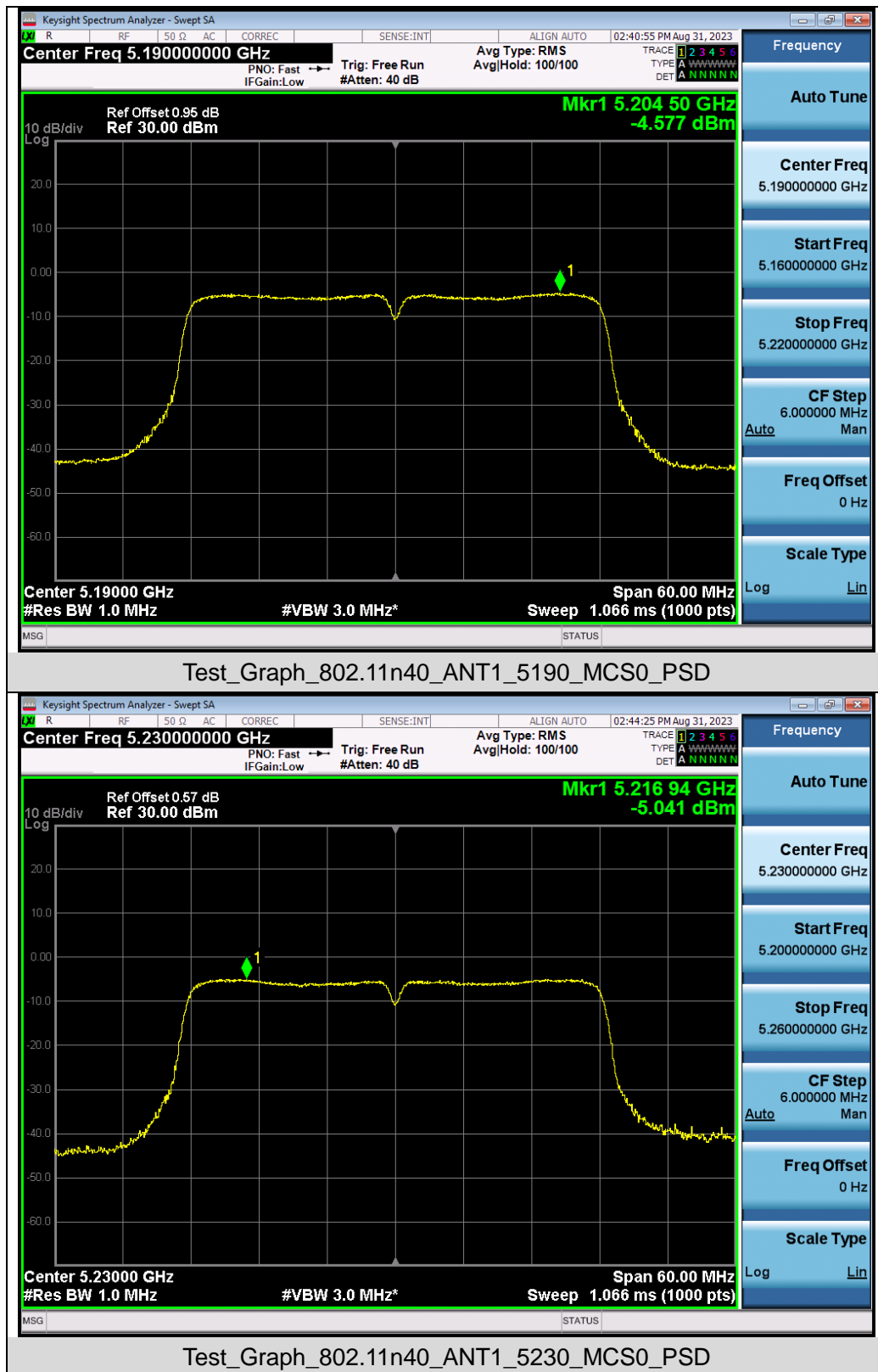


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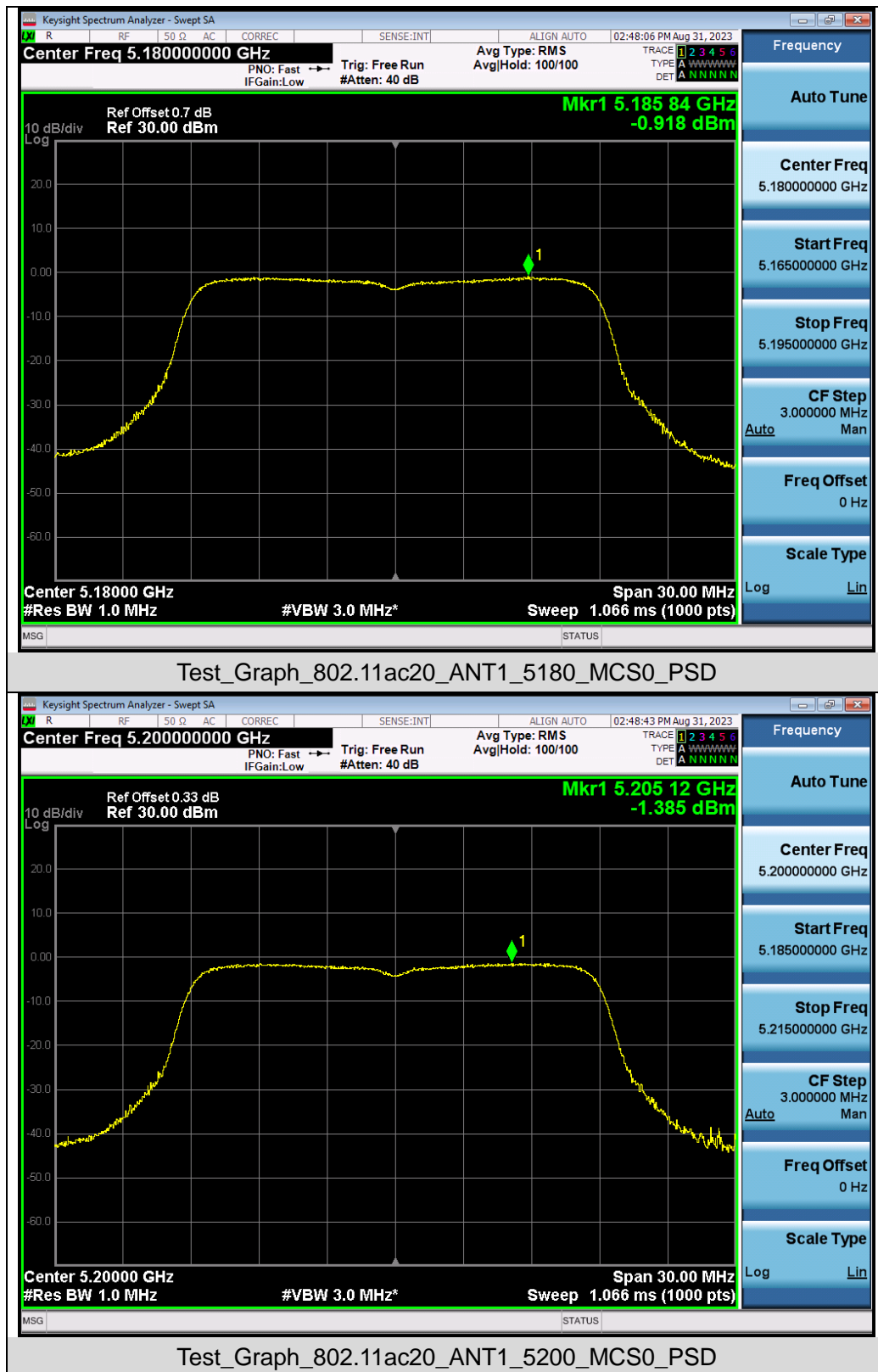


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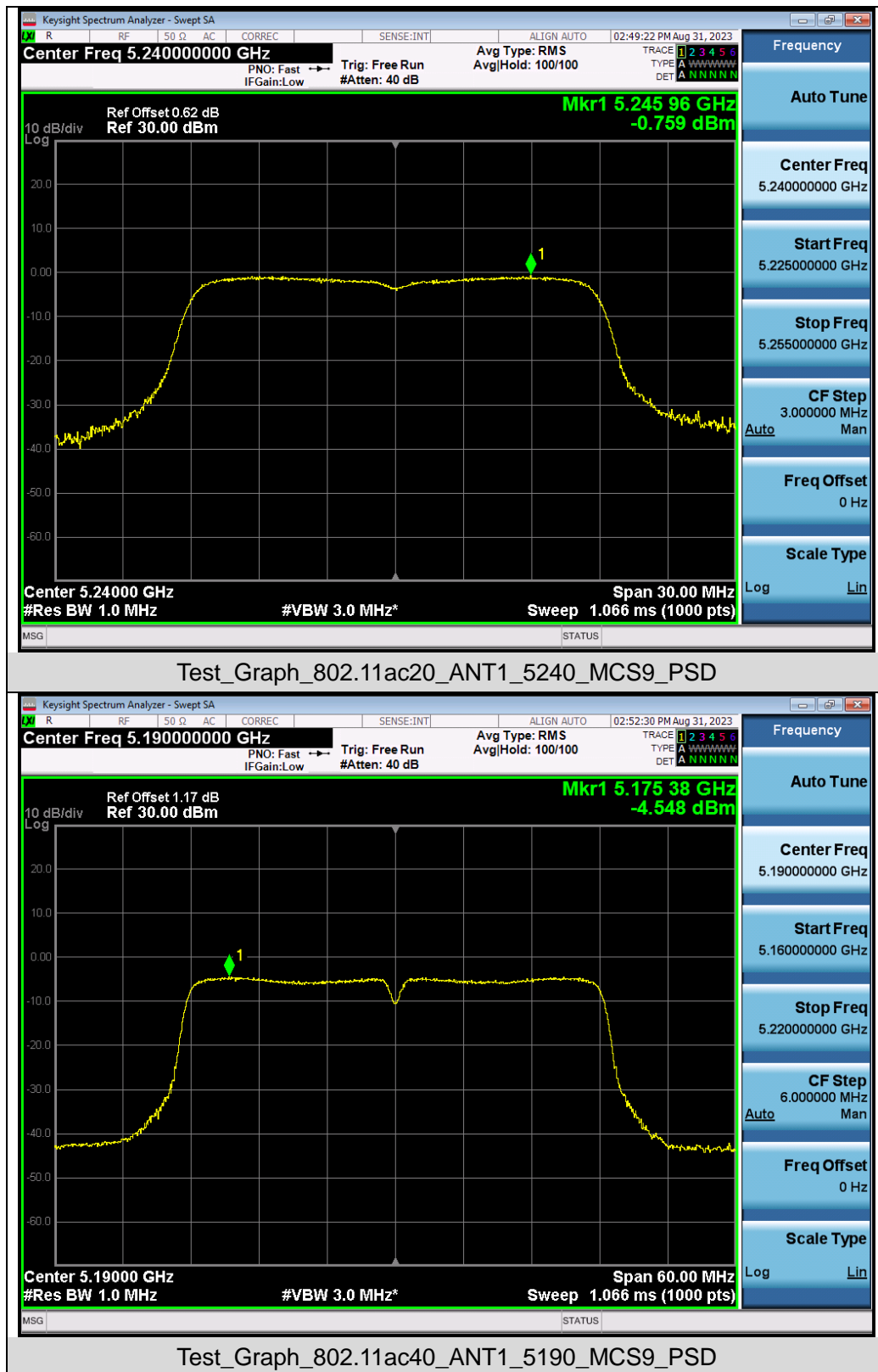
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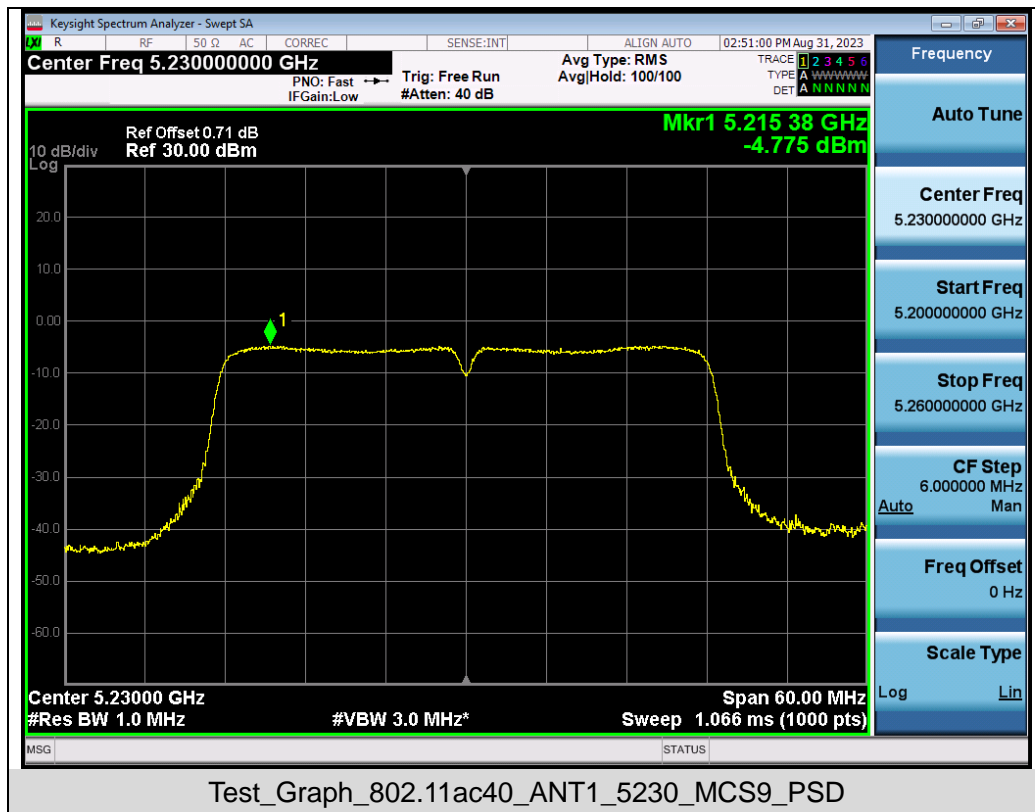
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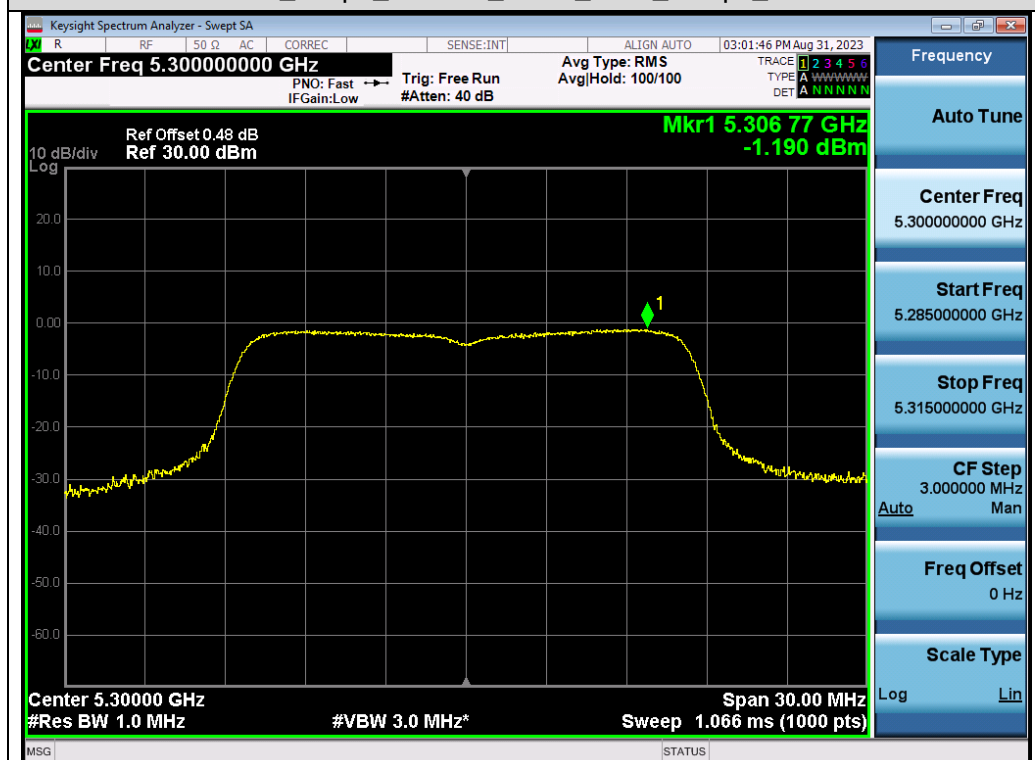
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_PSD

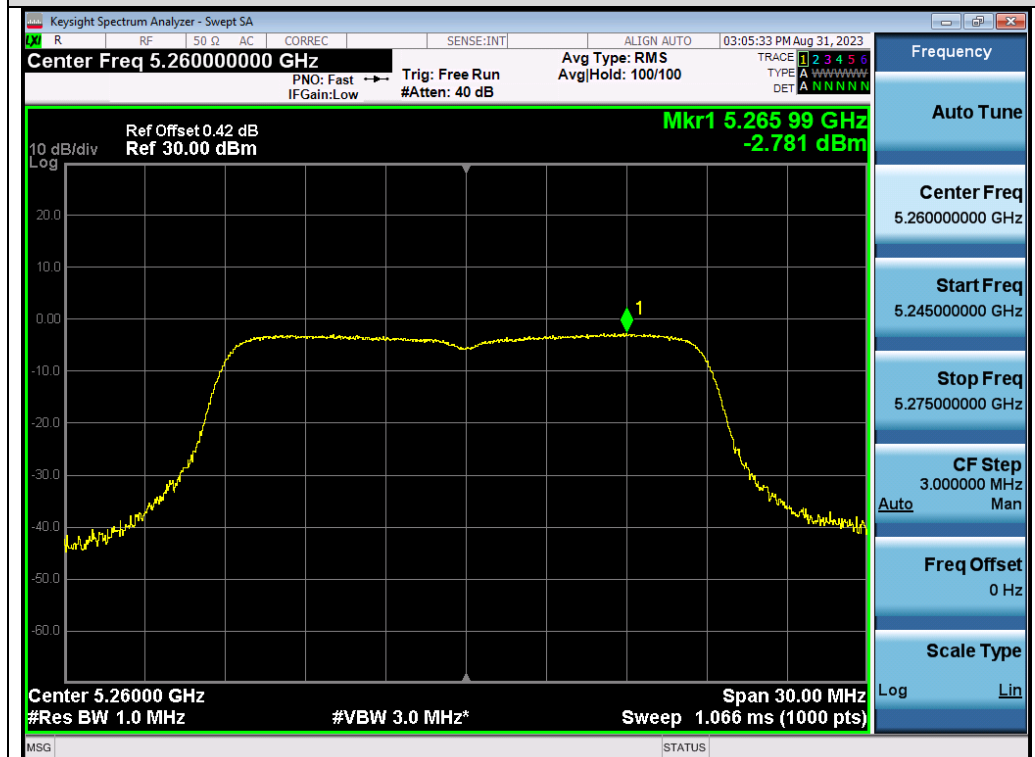


Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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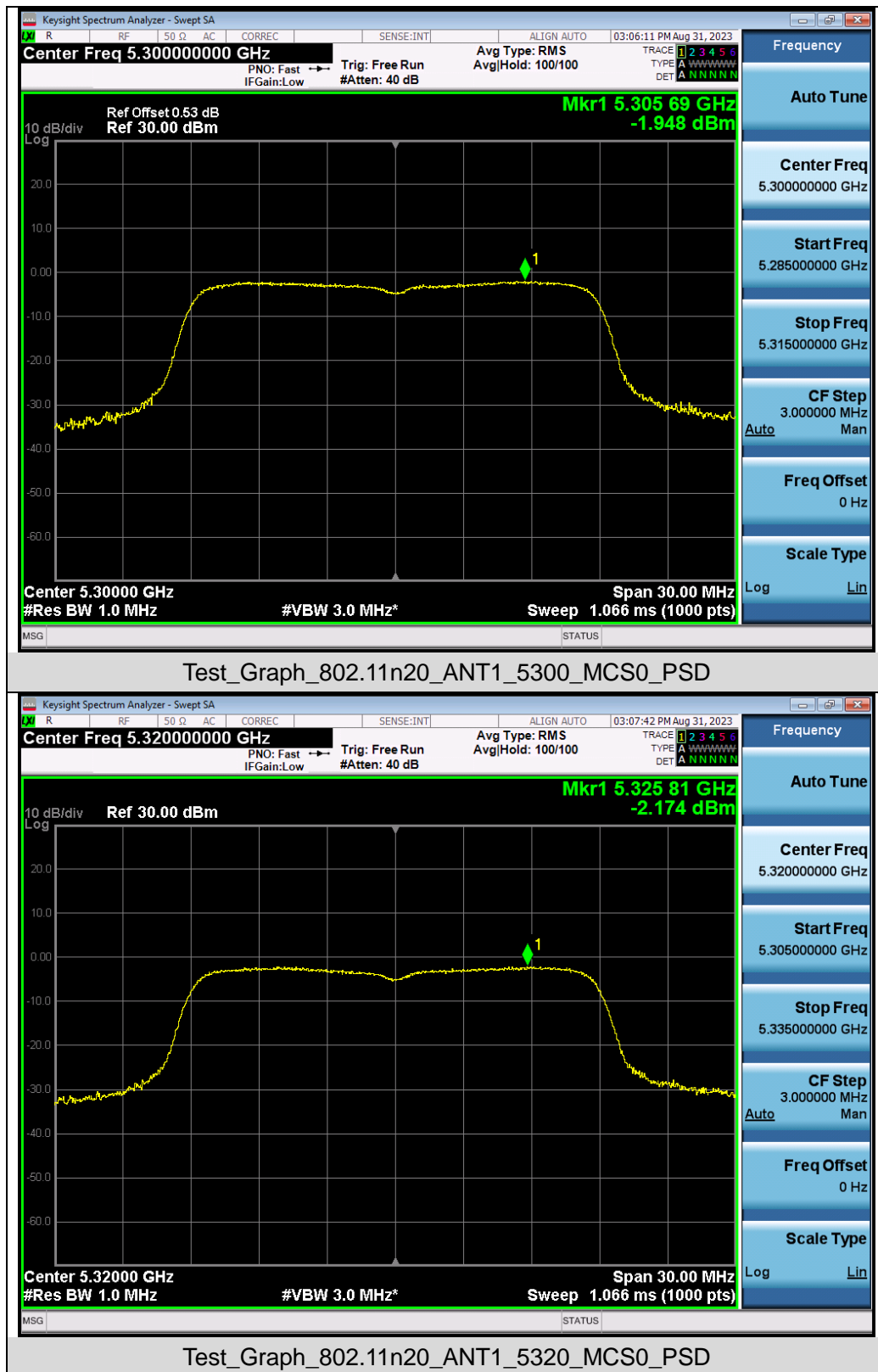
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Test_Graph_802.11n20_ANT1_5260_MCS0_PSD

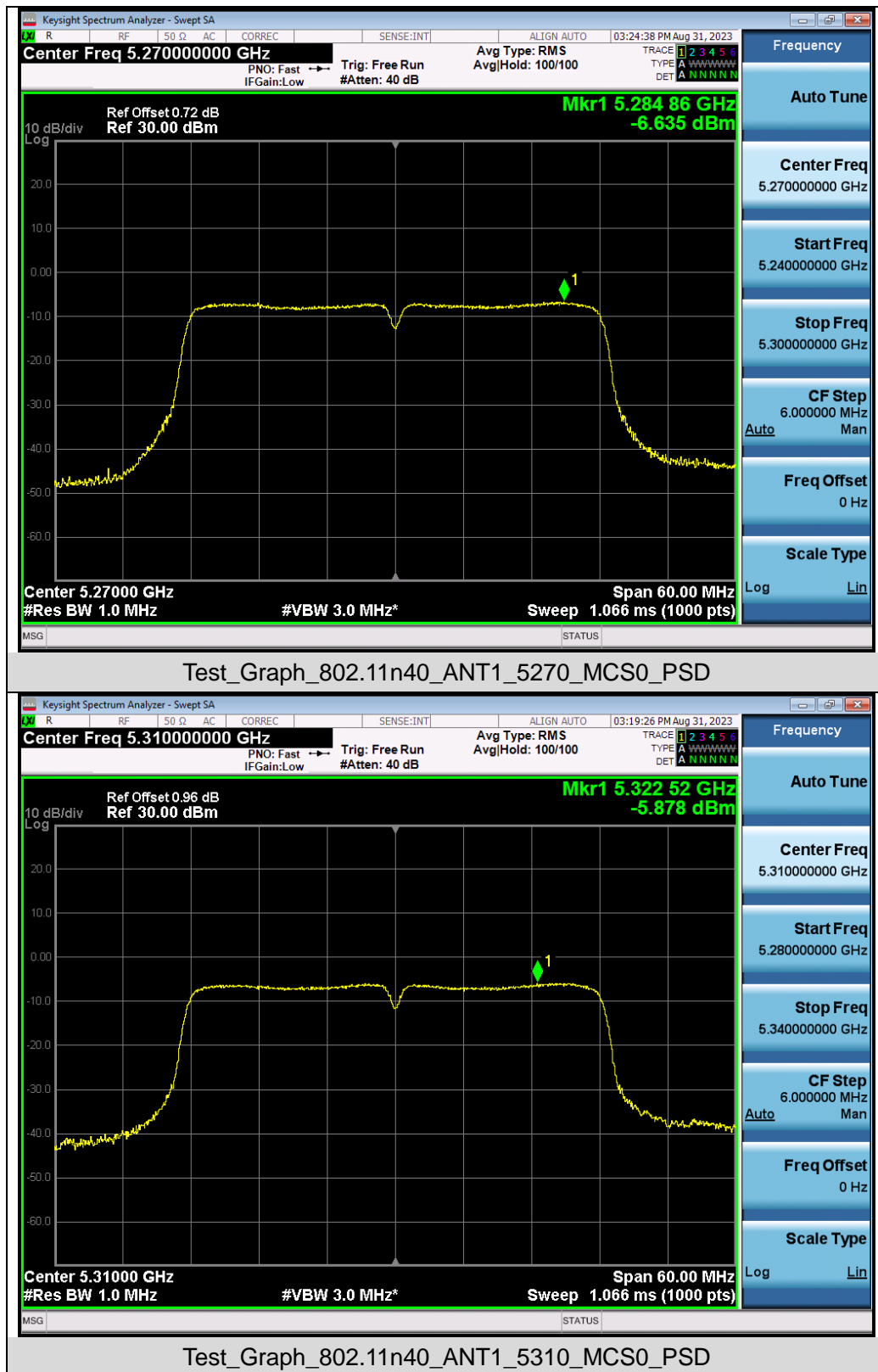
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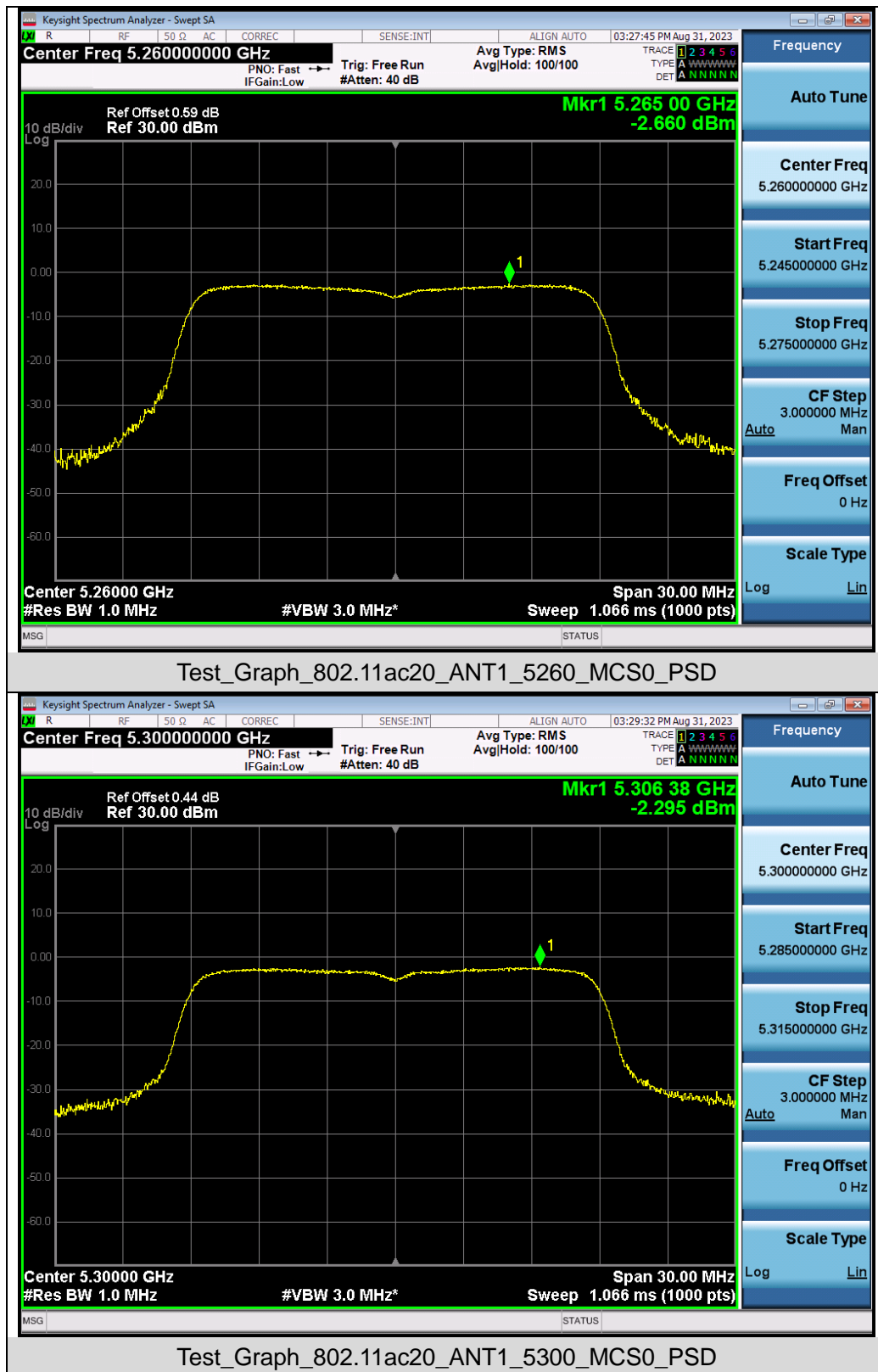
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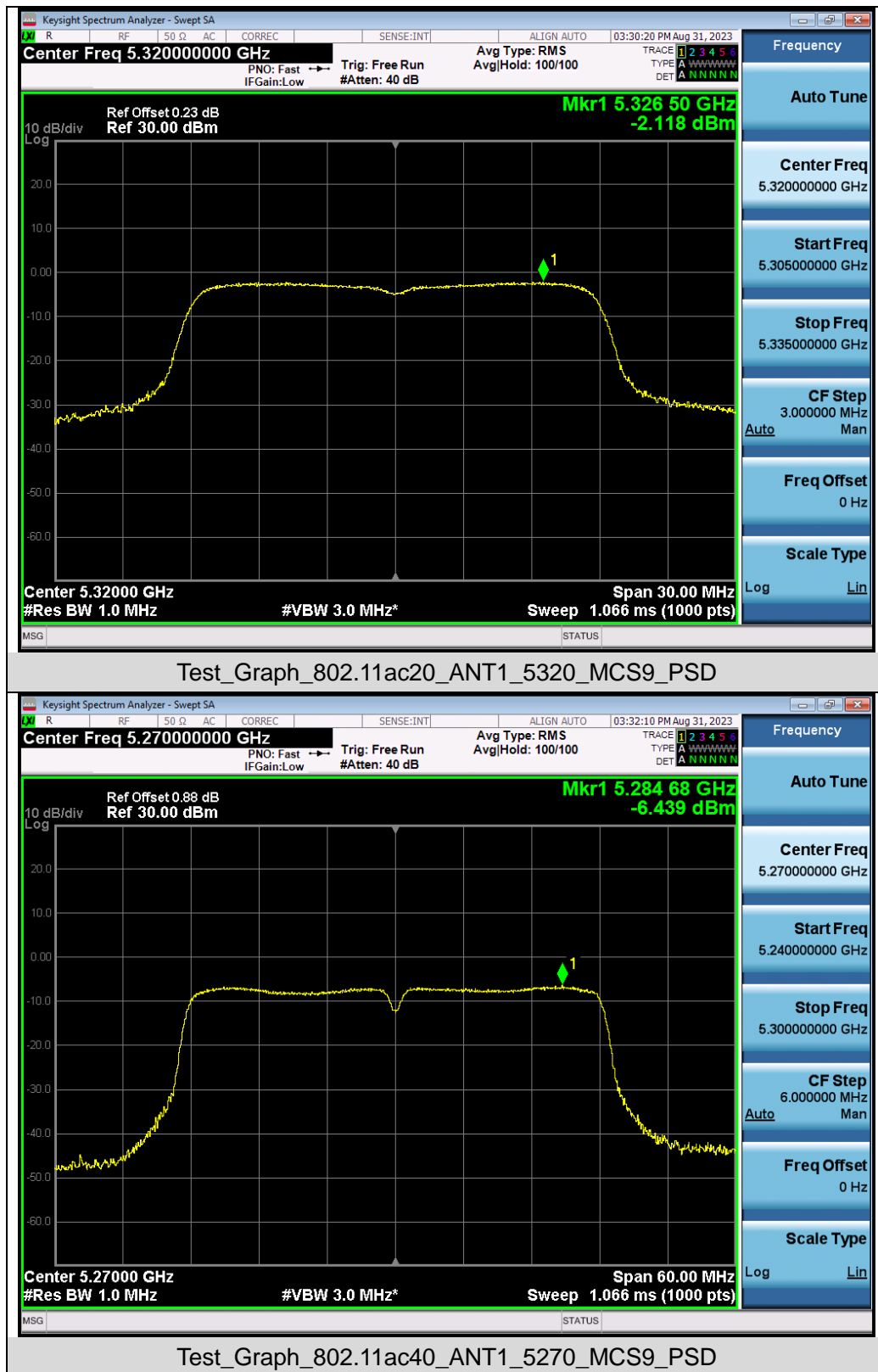
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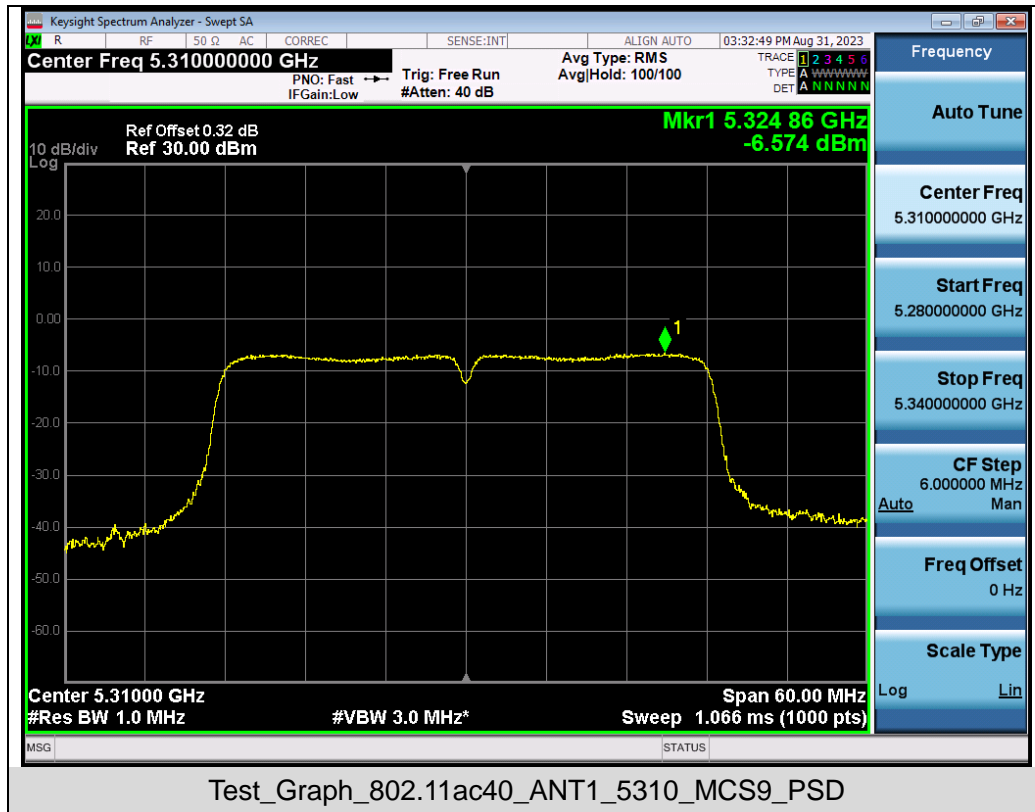
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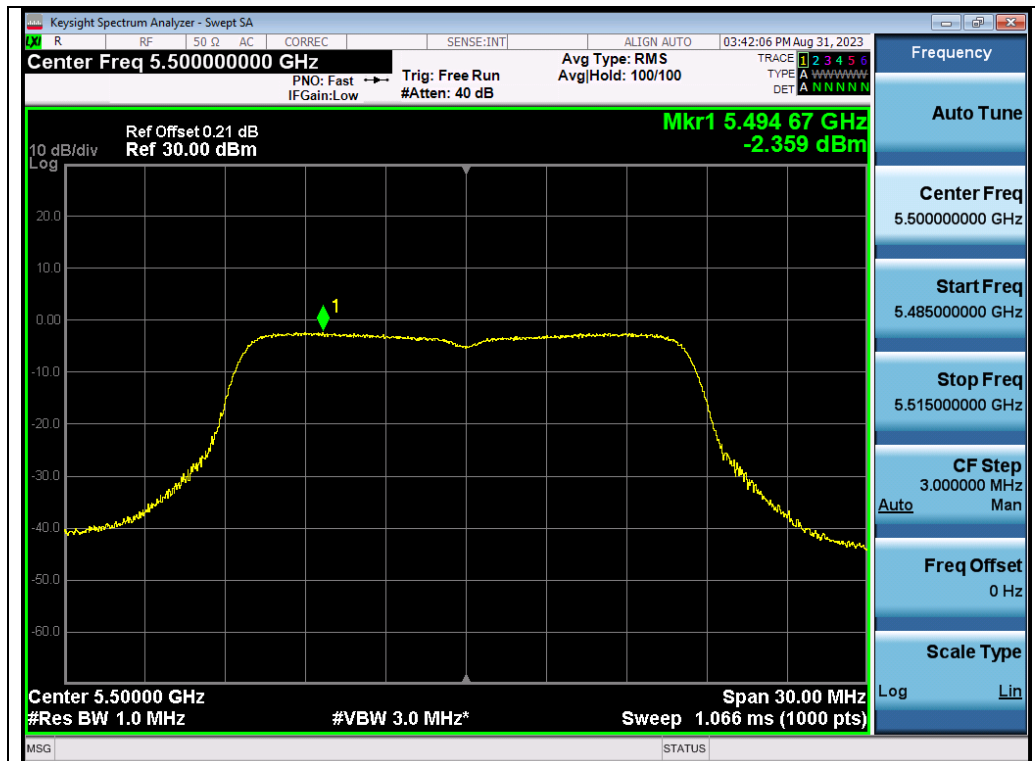
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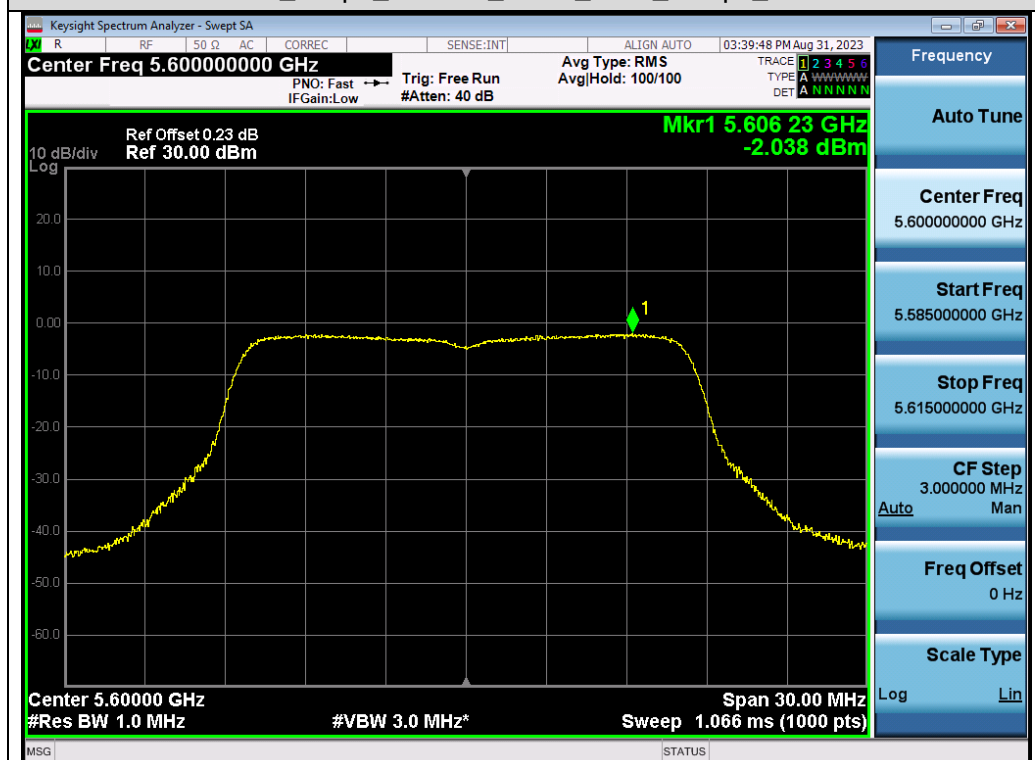
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Test Graphs of Conducted Output Power Spectral Density for band 5.47-5.725 GHz

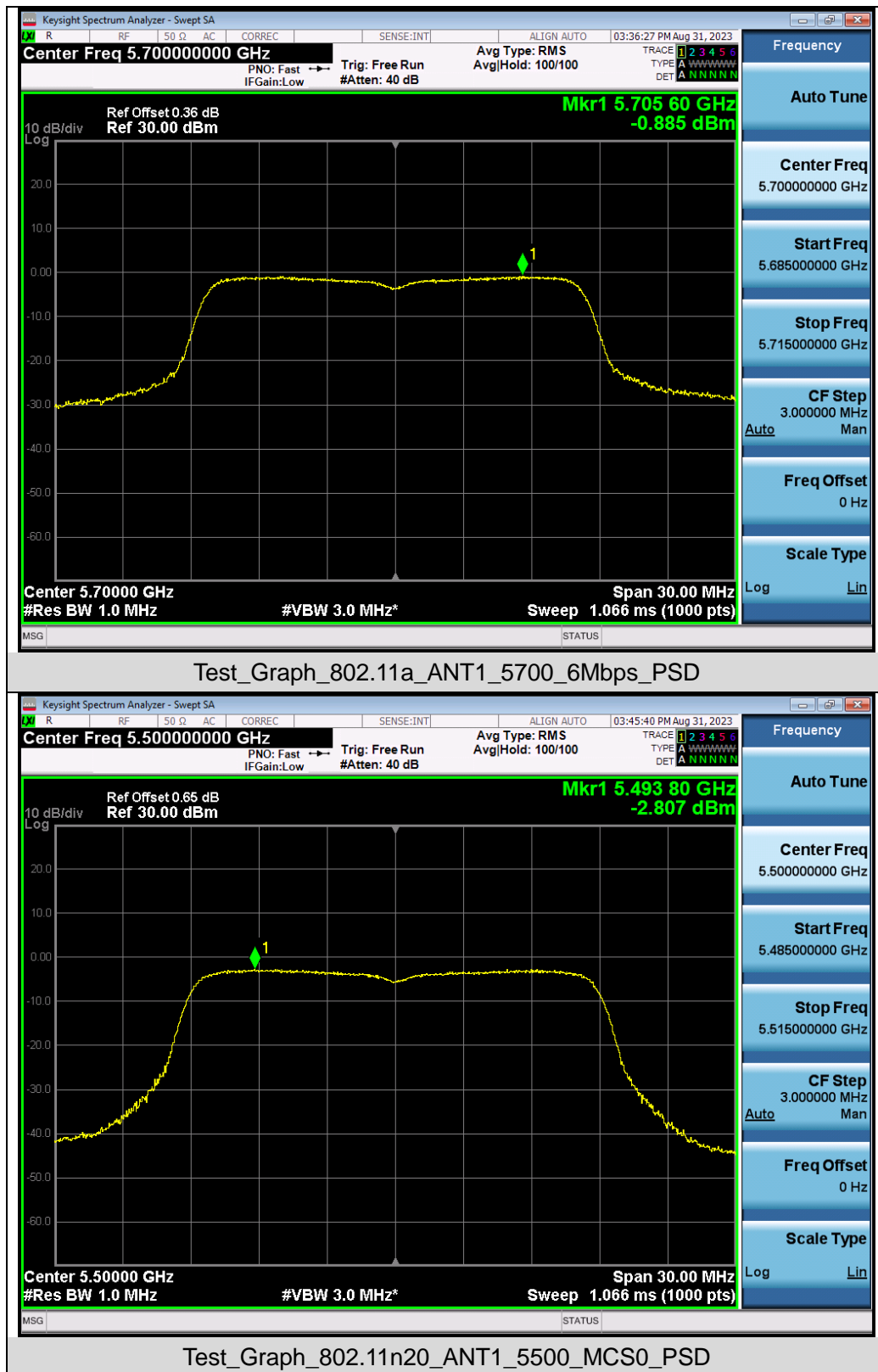


Test_Graph_802.11a_ANT1_5500_6Mbps_PSD



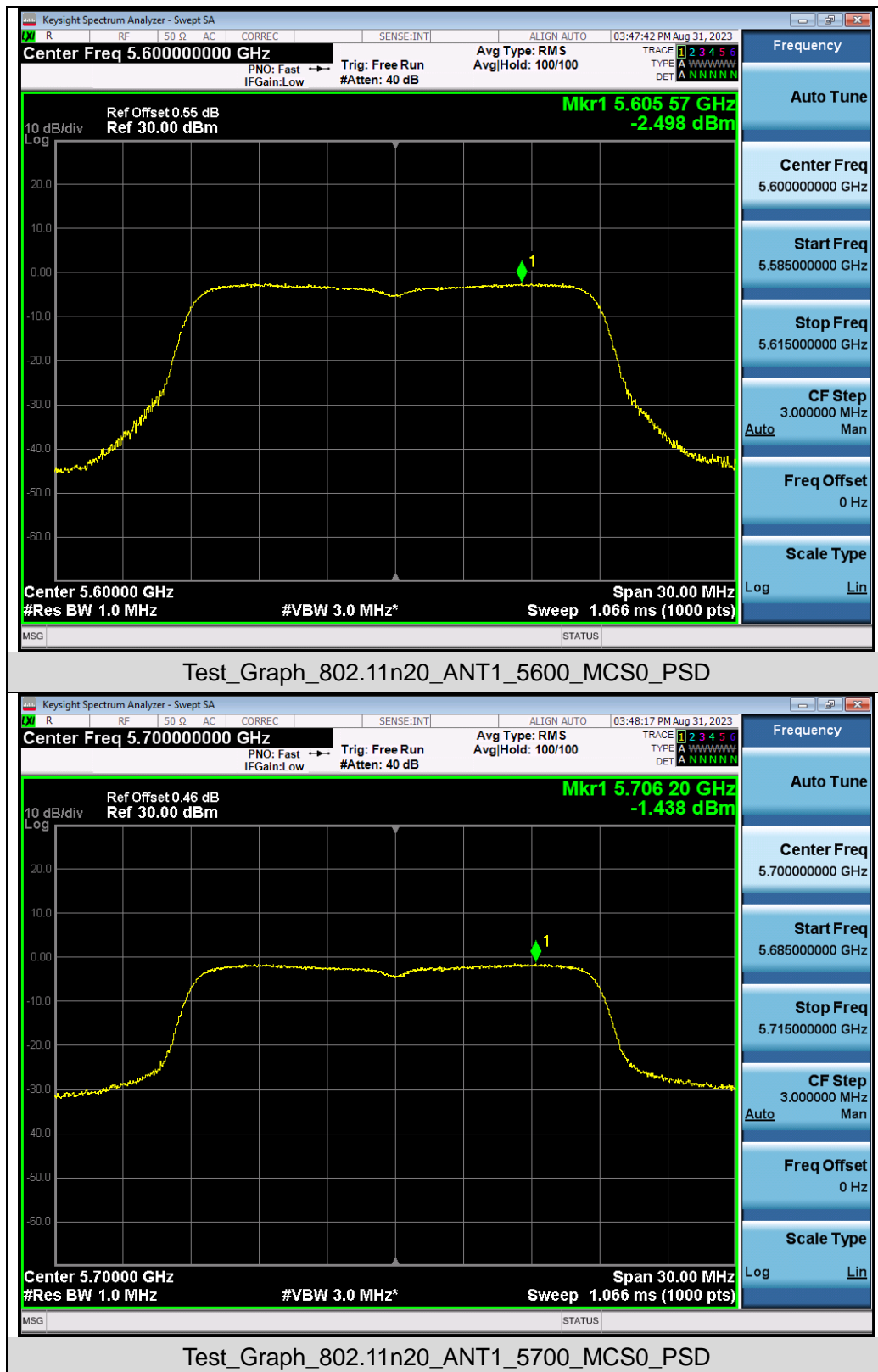
Test_Graph_802.11a_ANT1_5600_6Mbps_PSD

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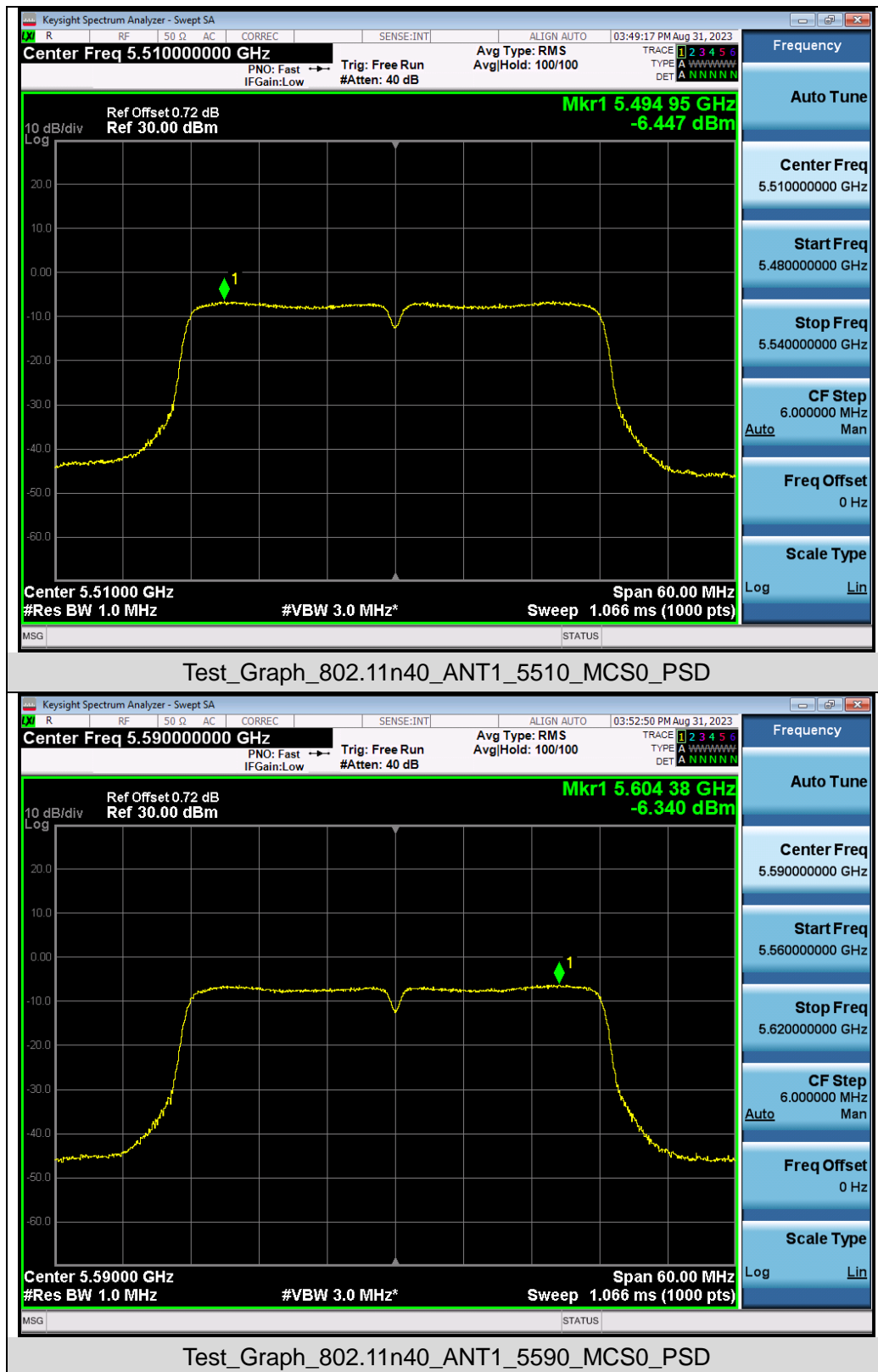
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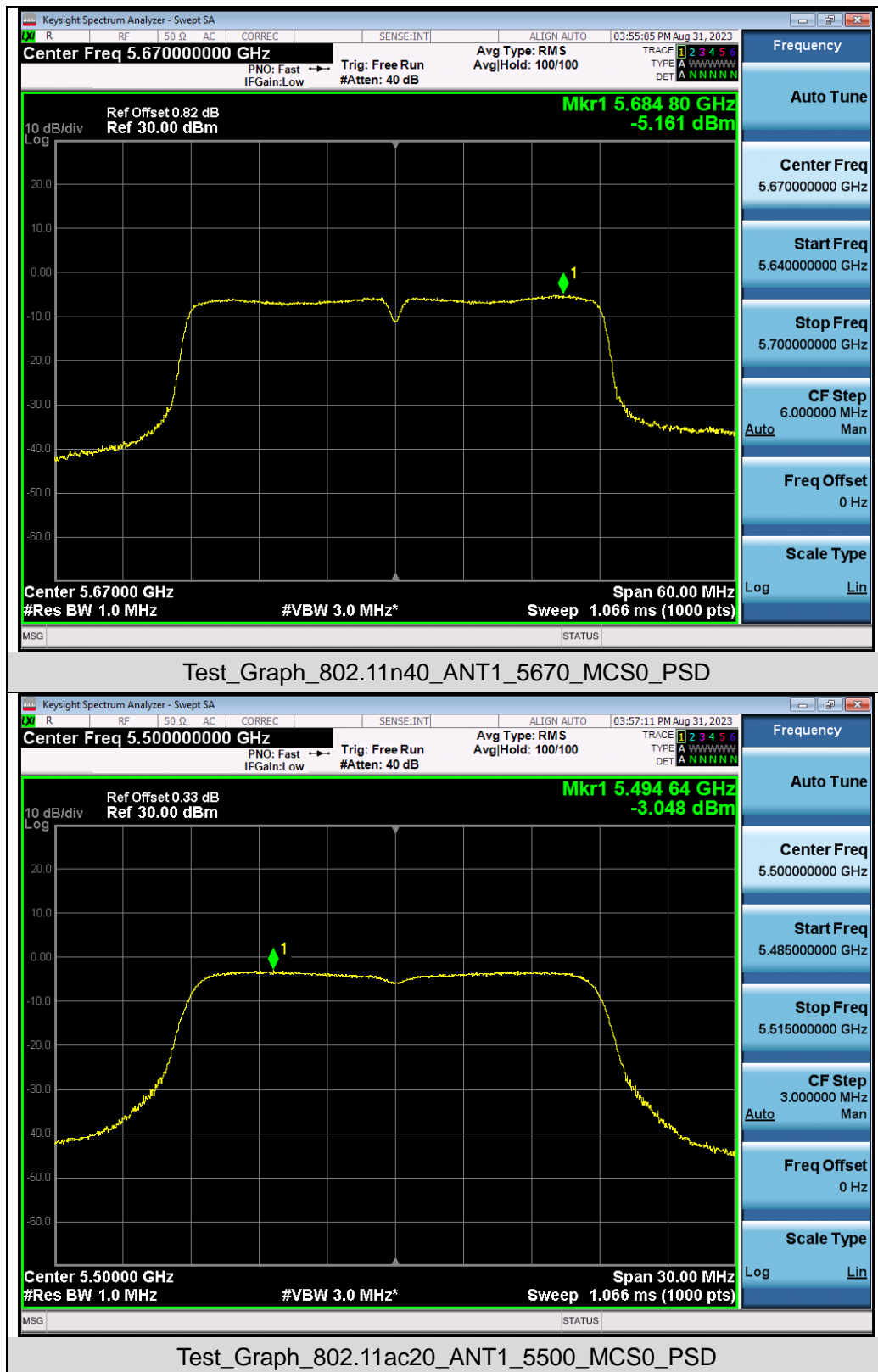
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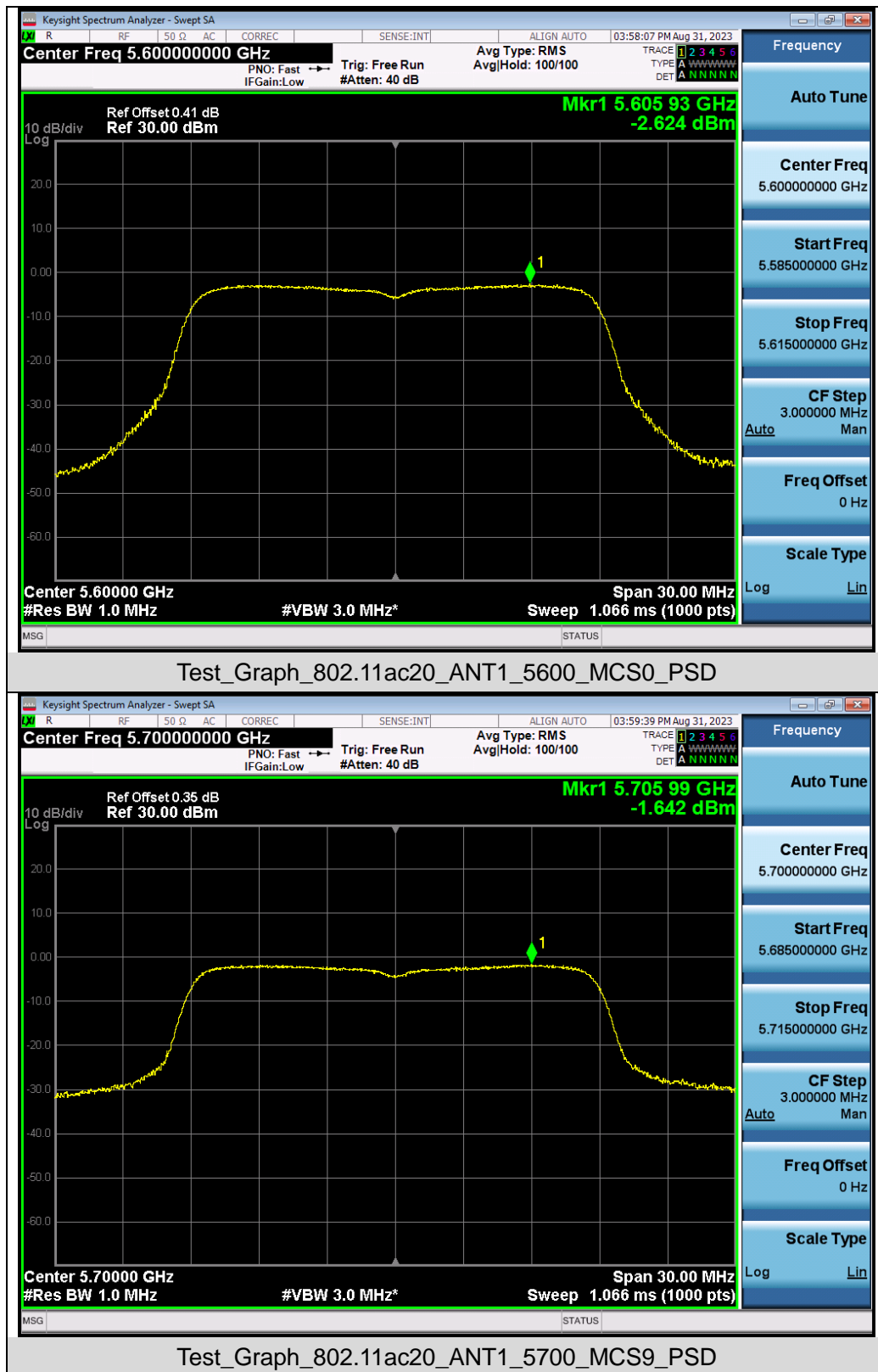
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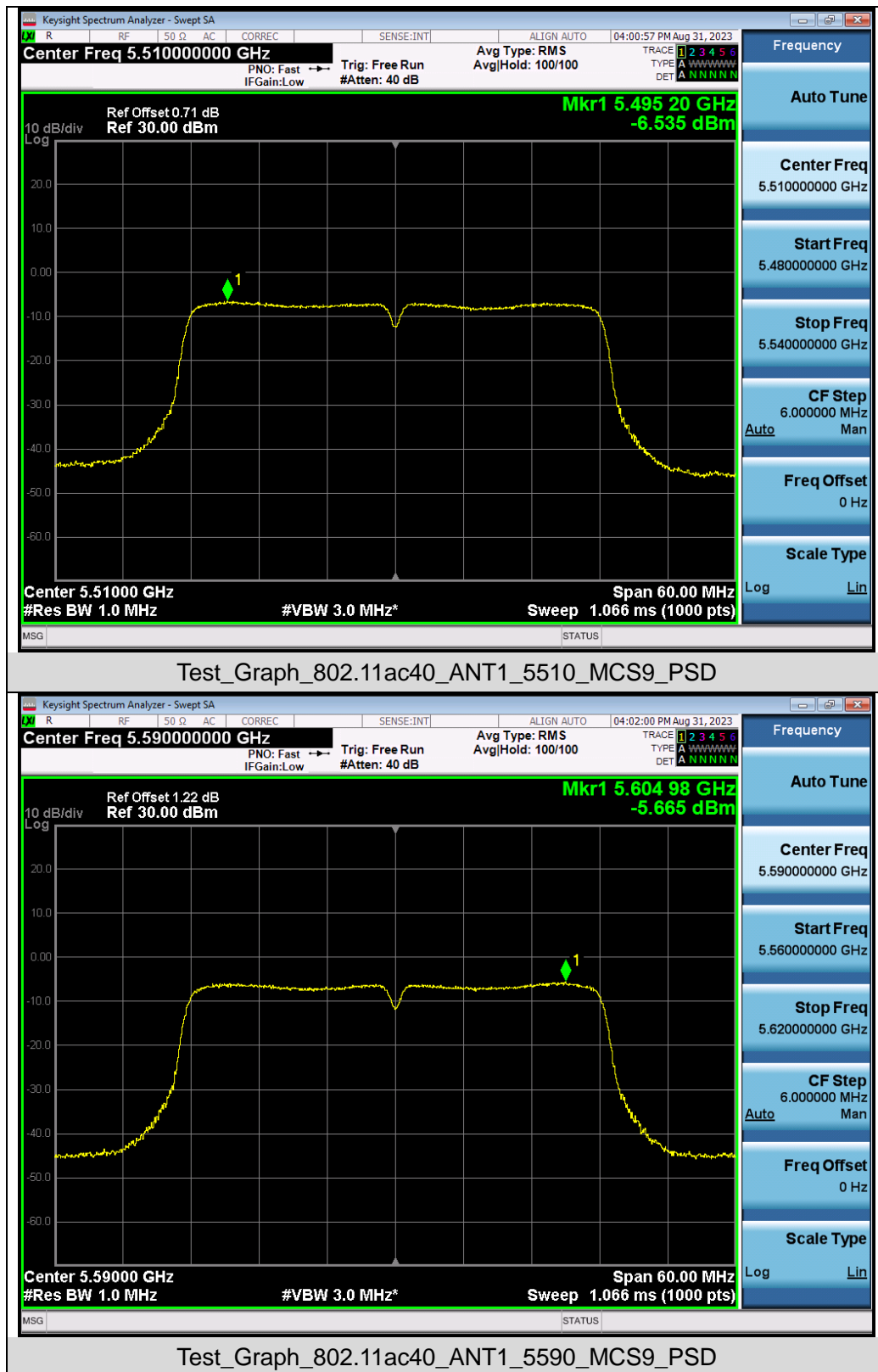
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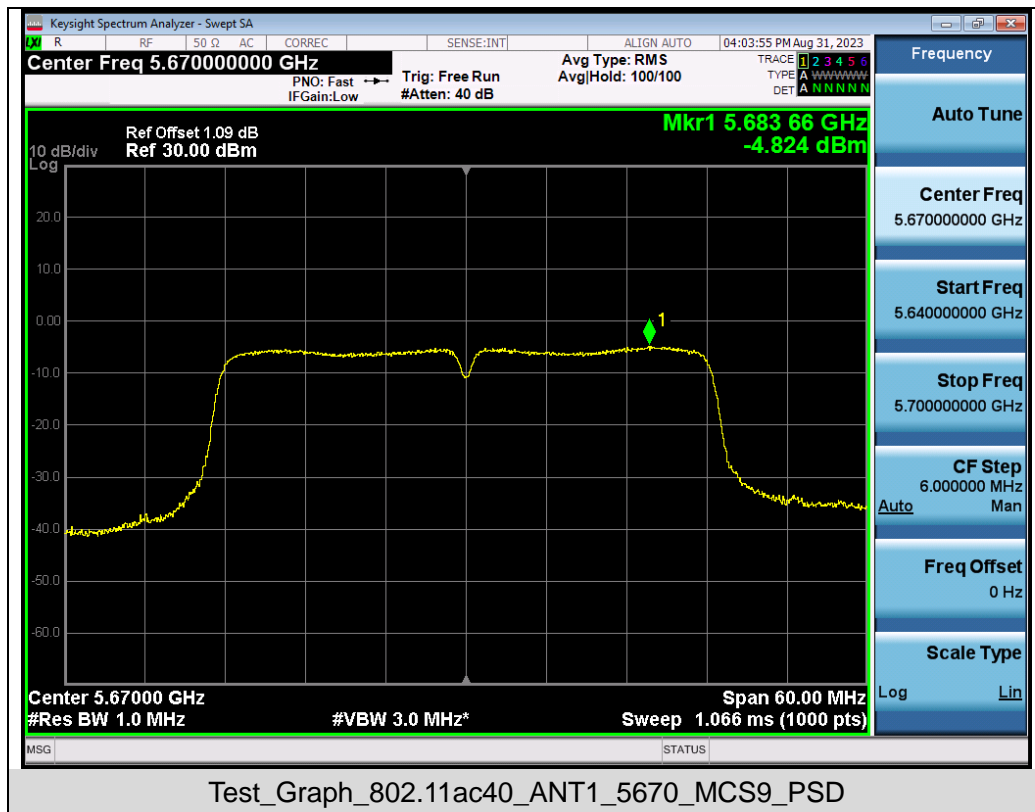
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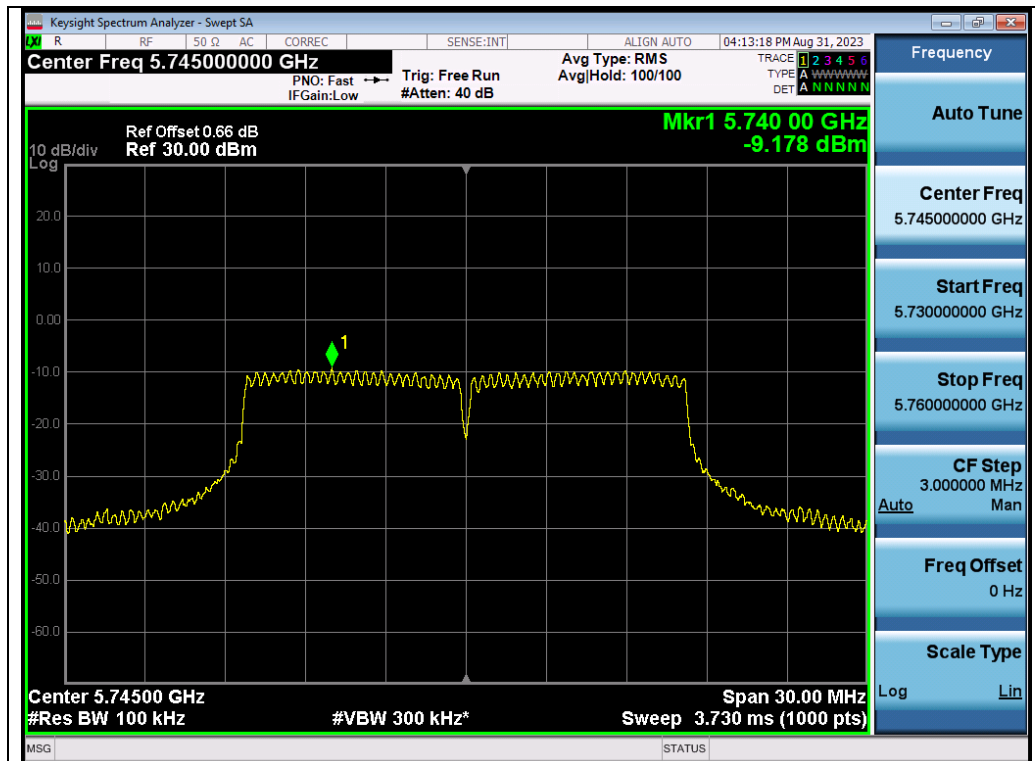
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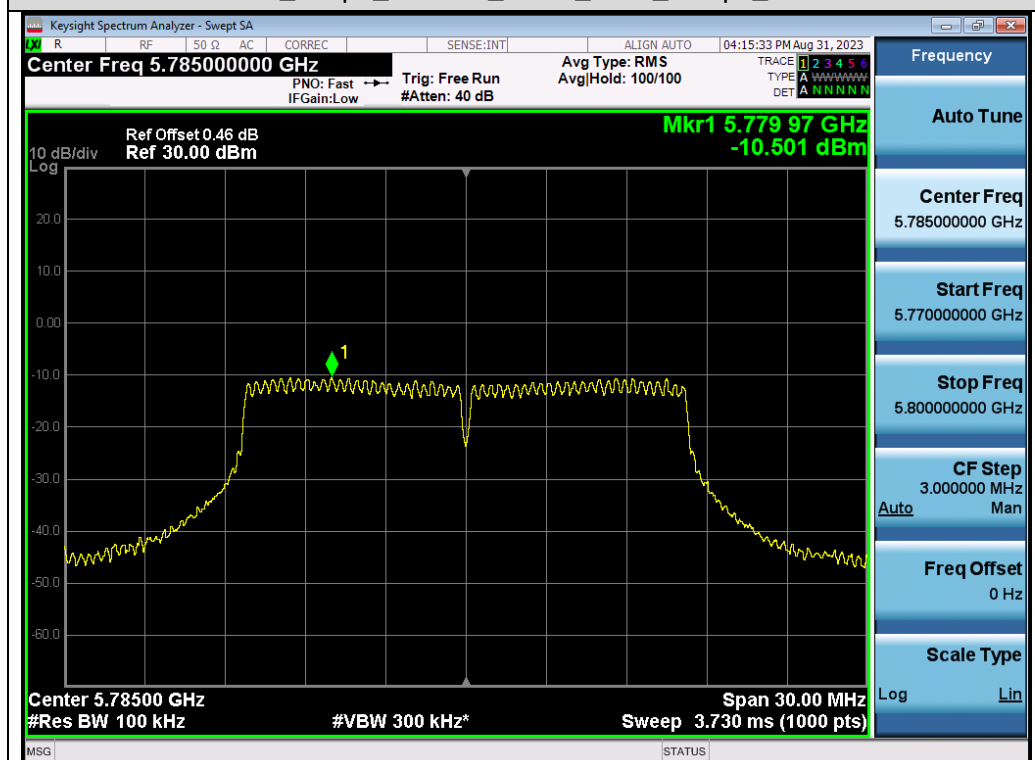
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

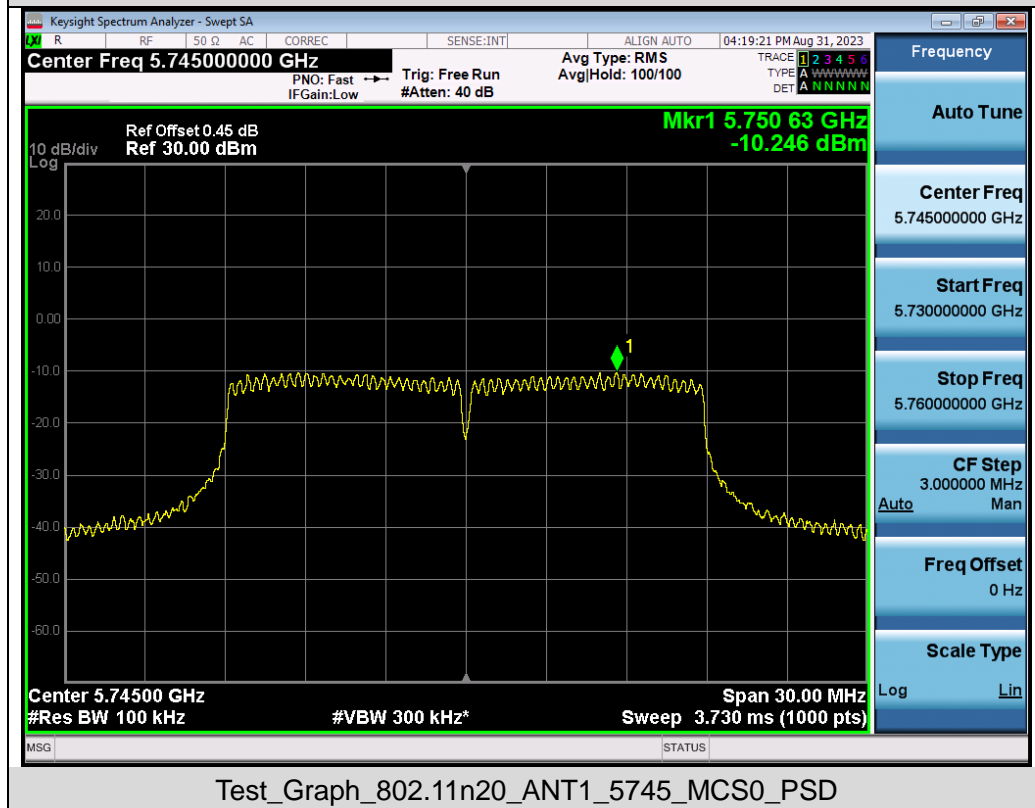
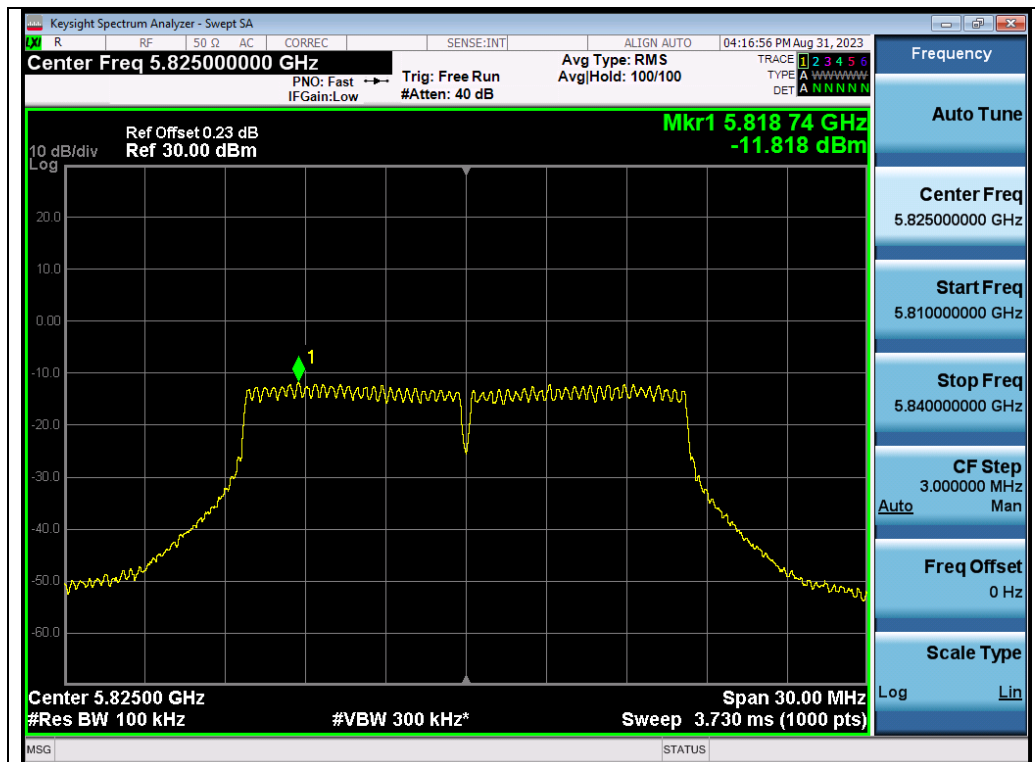


Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



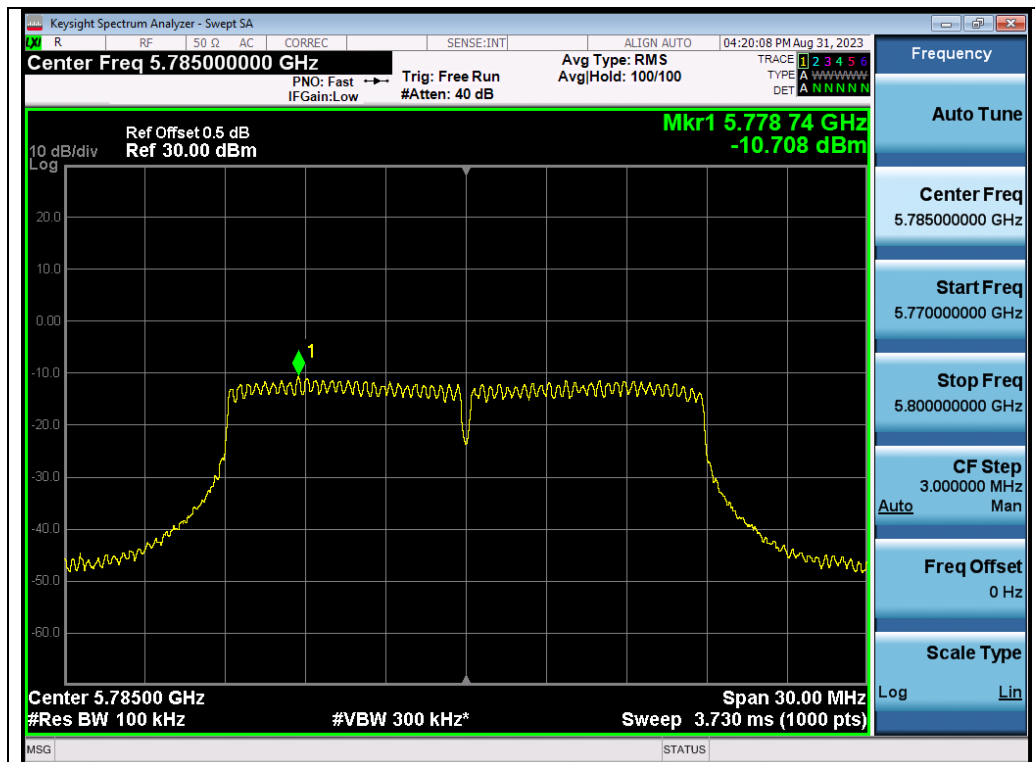
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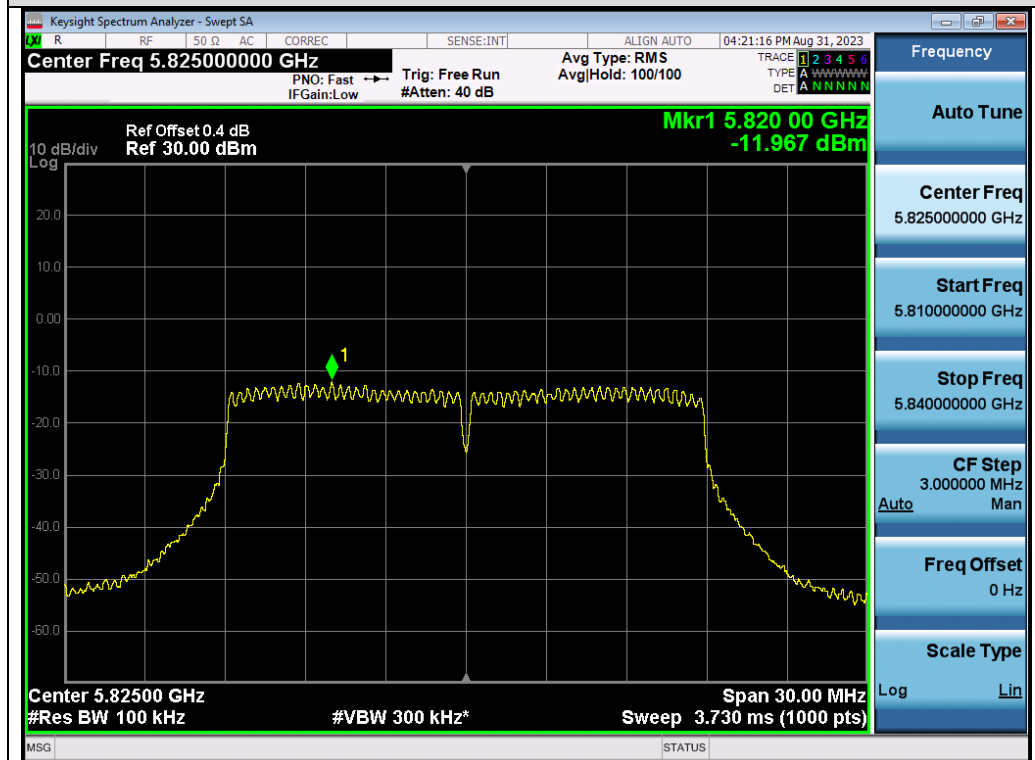


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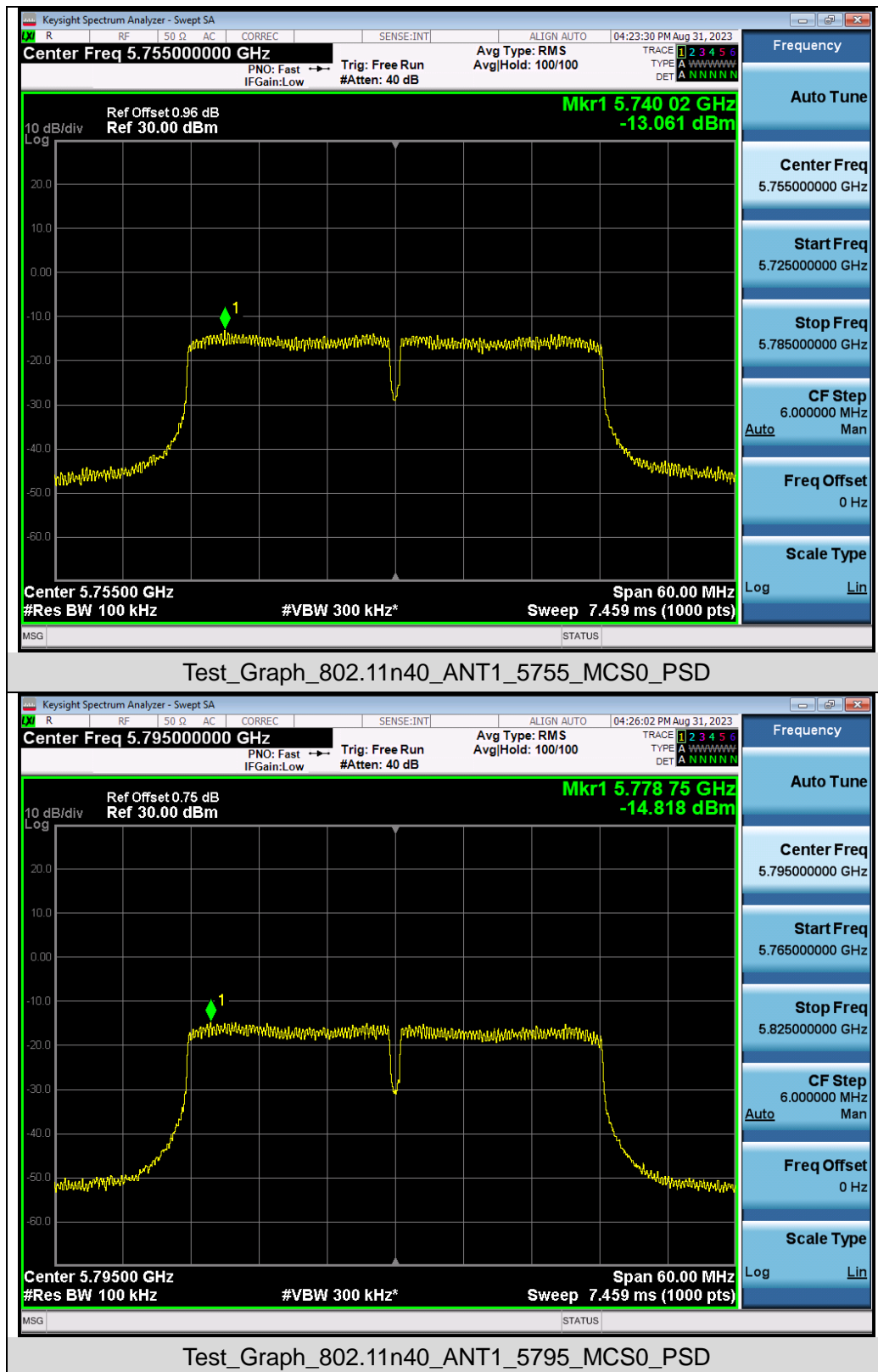
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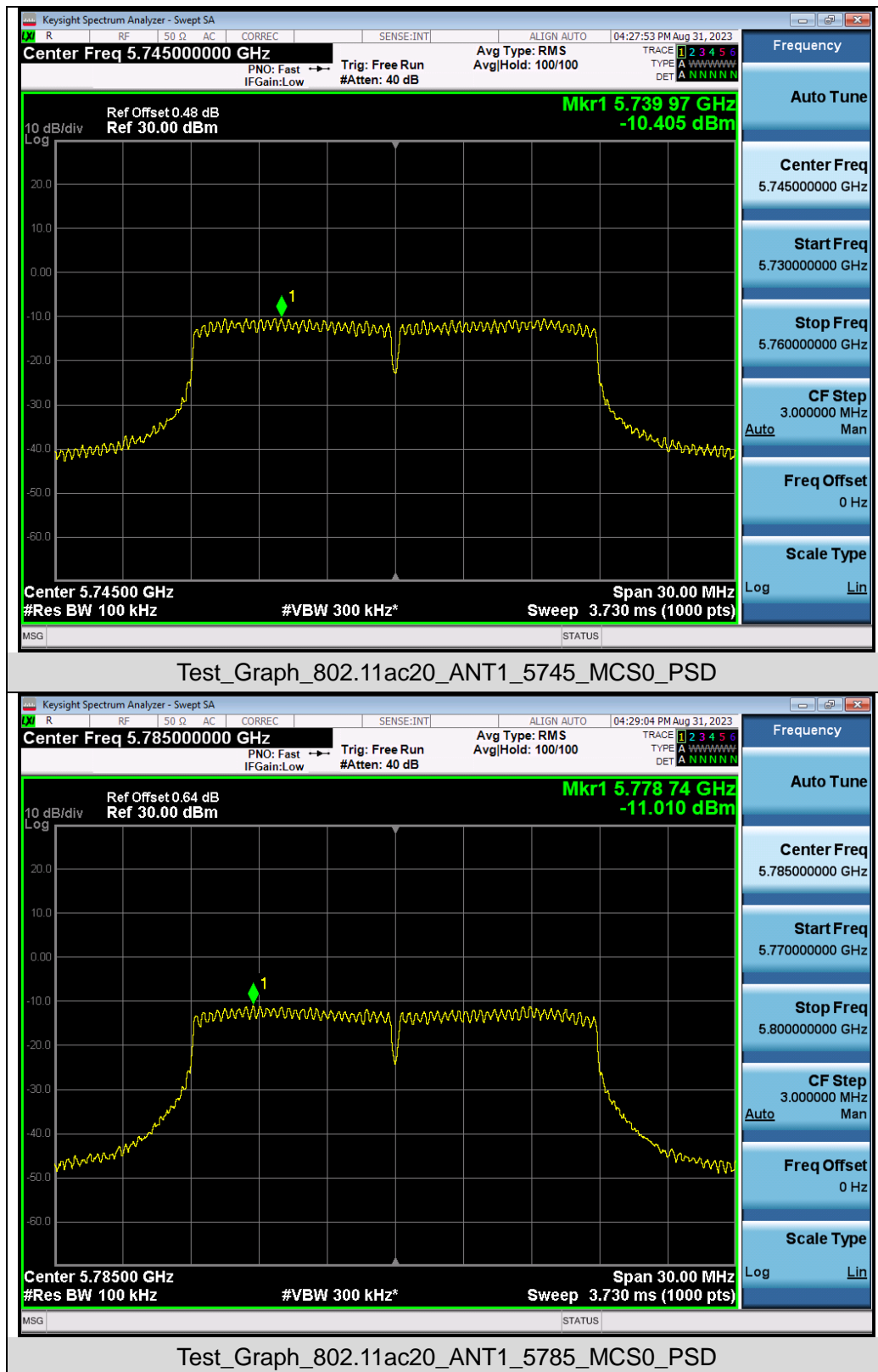
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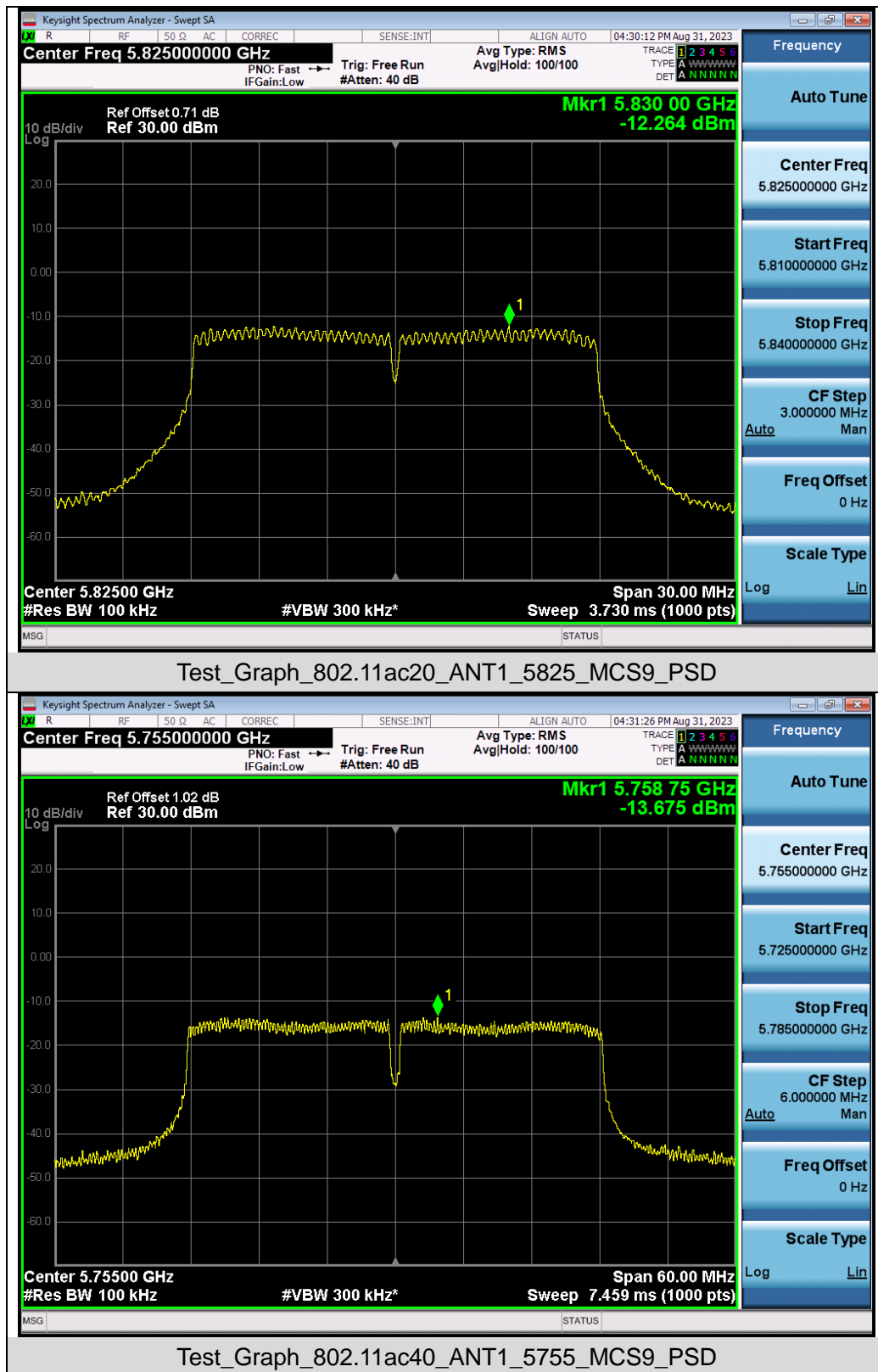
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10. CONDUCTED SPURIOUS EMISSION

10.1 MEASUREMENT LIMIT

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:

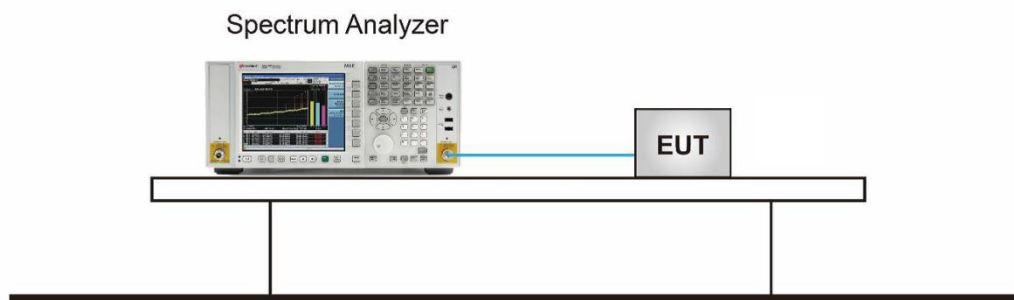
$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

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.
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.

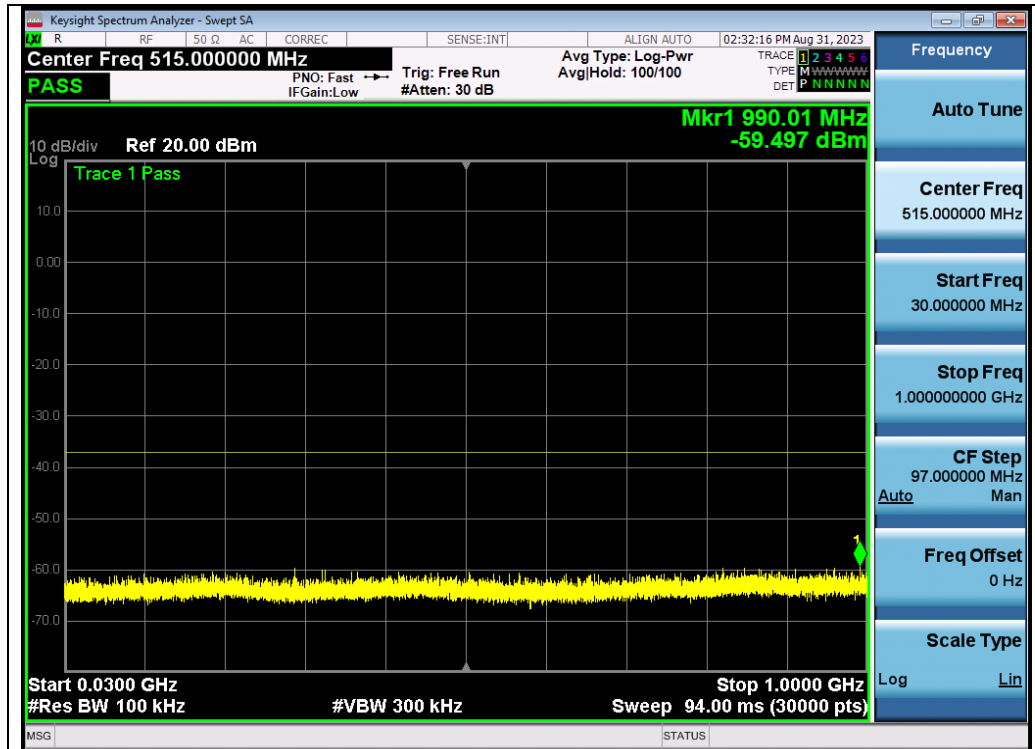
10.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



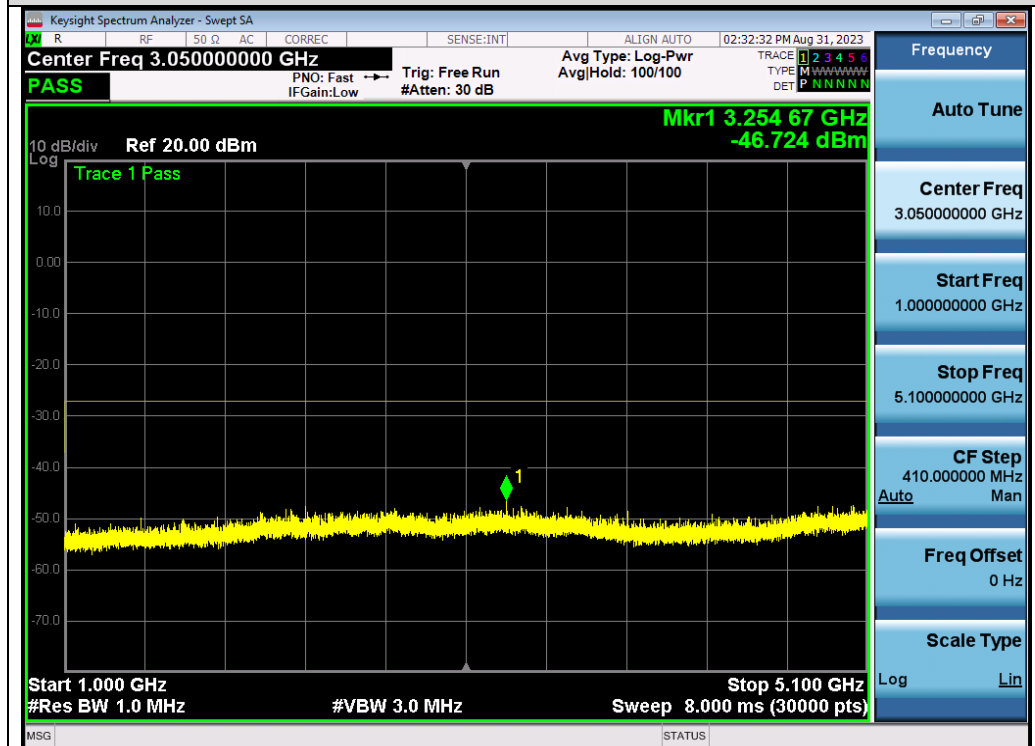
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10.4 MEASUREMENT RESULTS

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

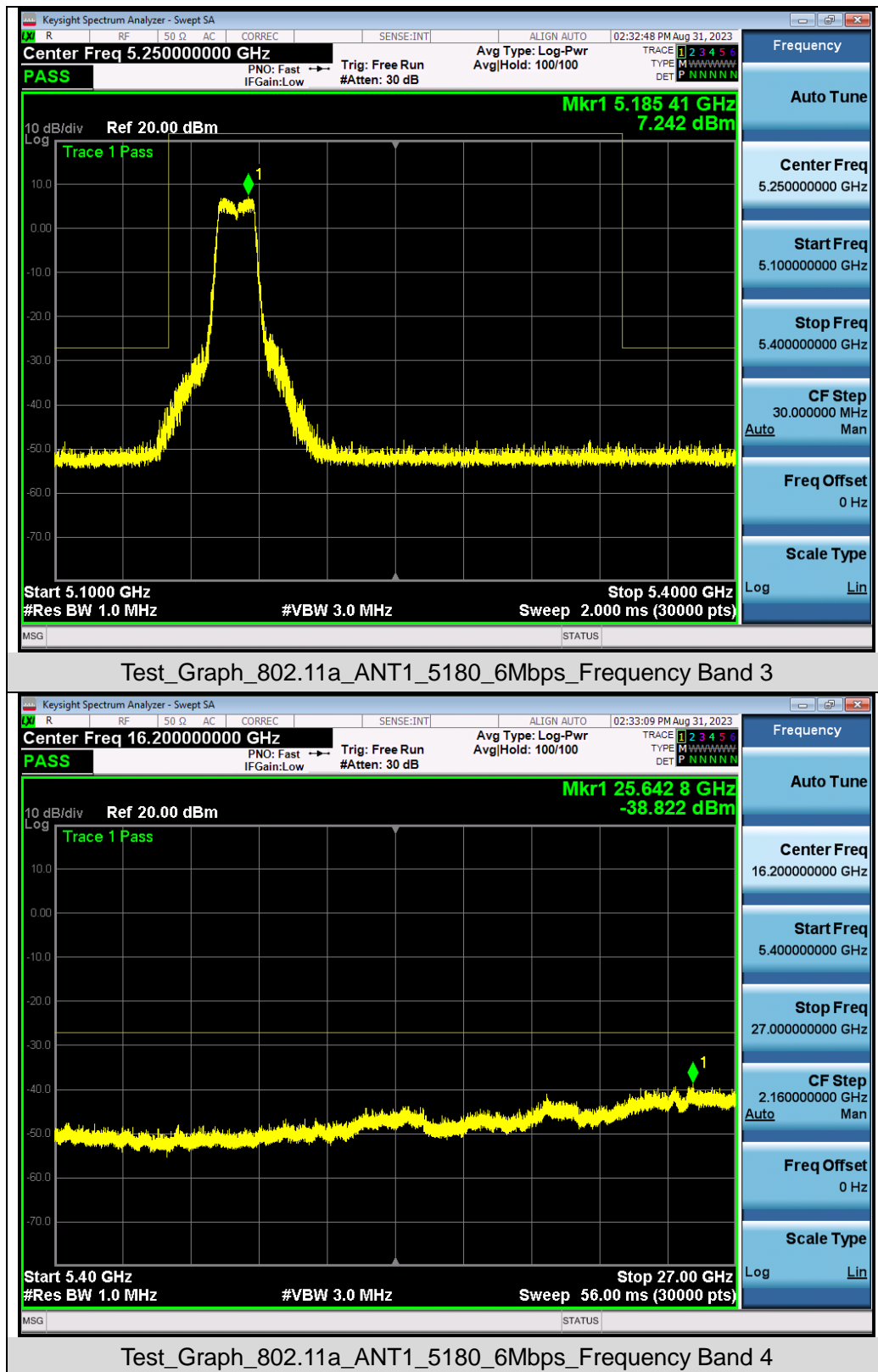


Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 1



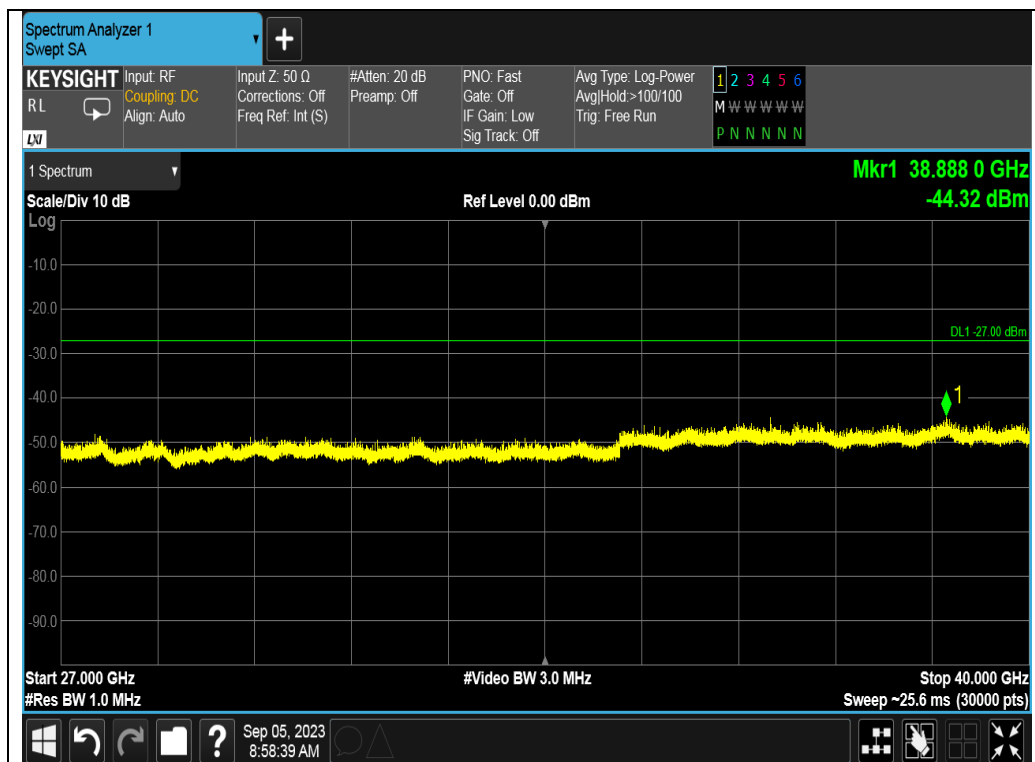
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 2

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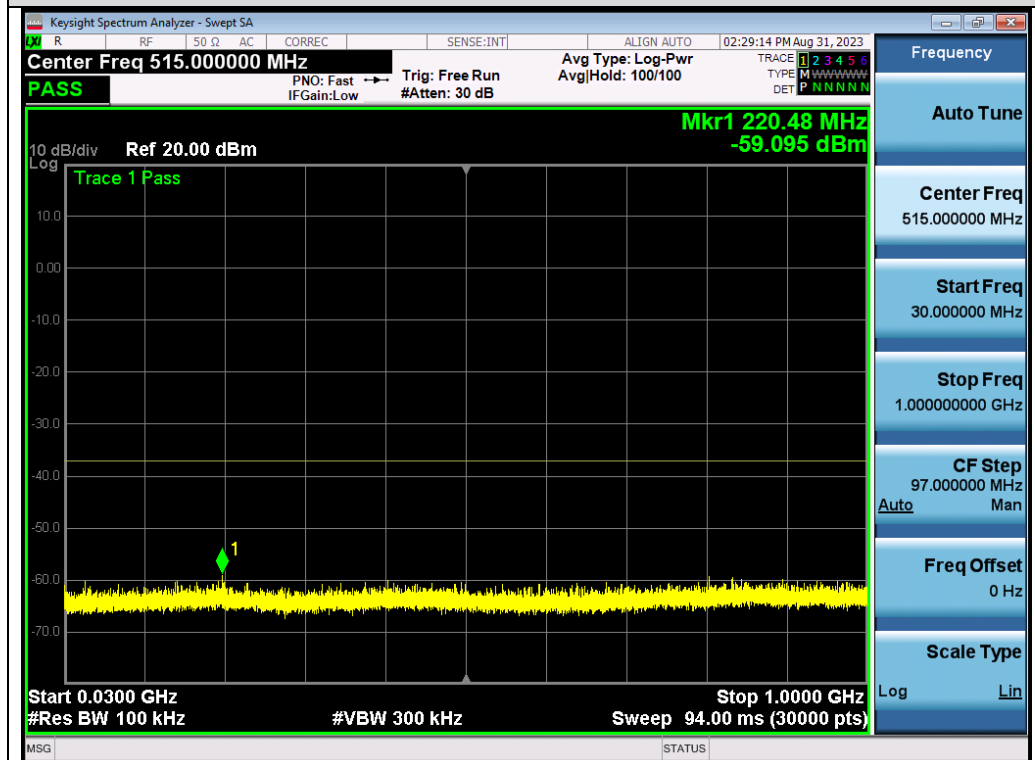


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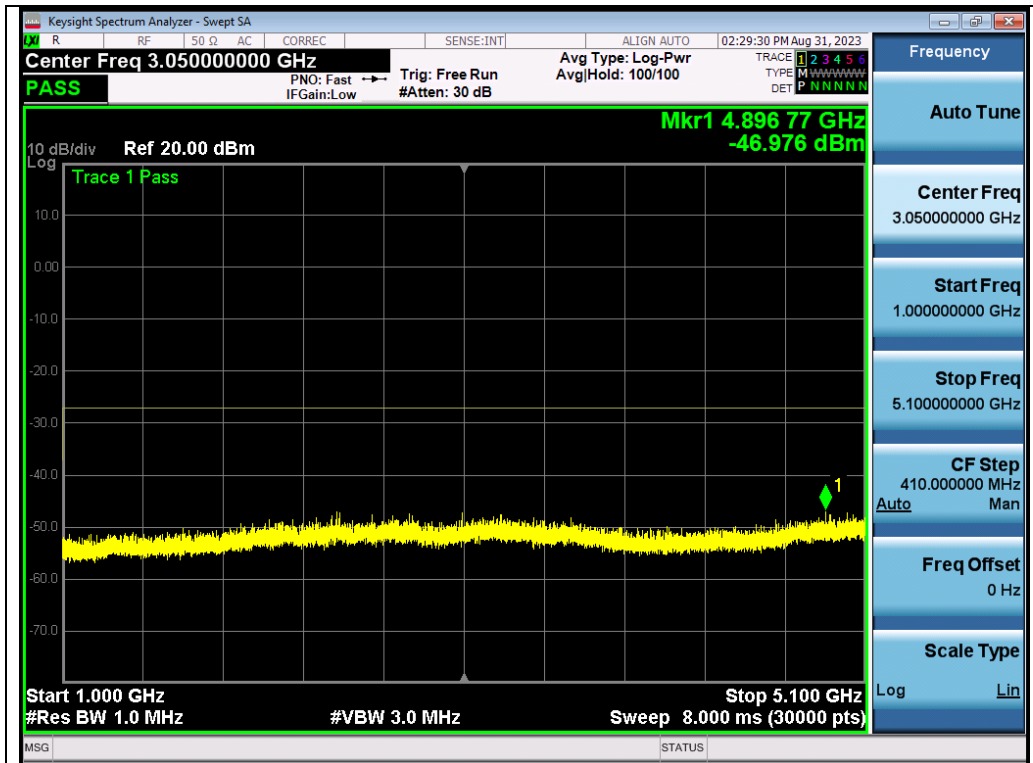
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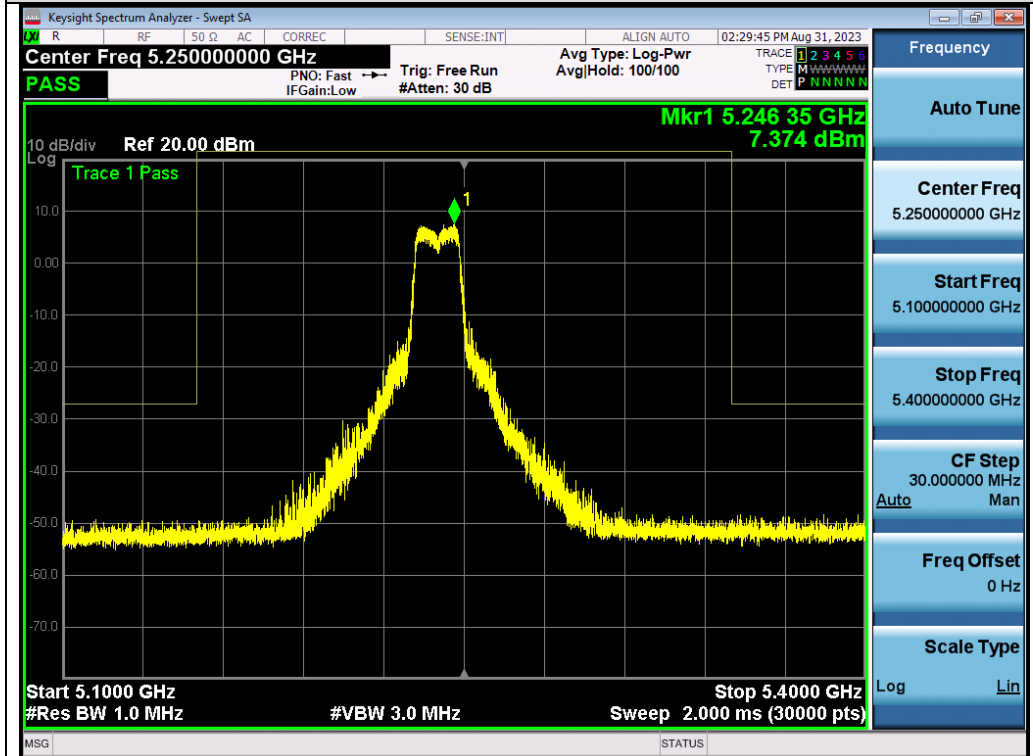
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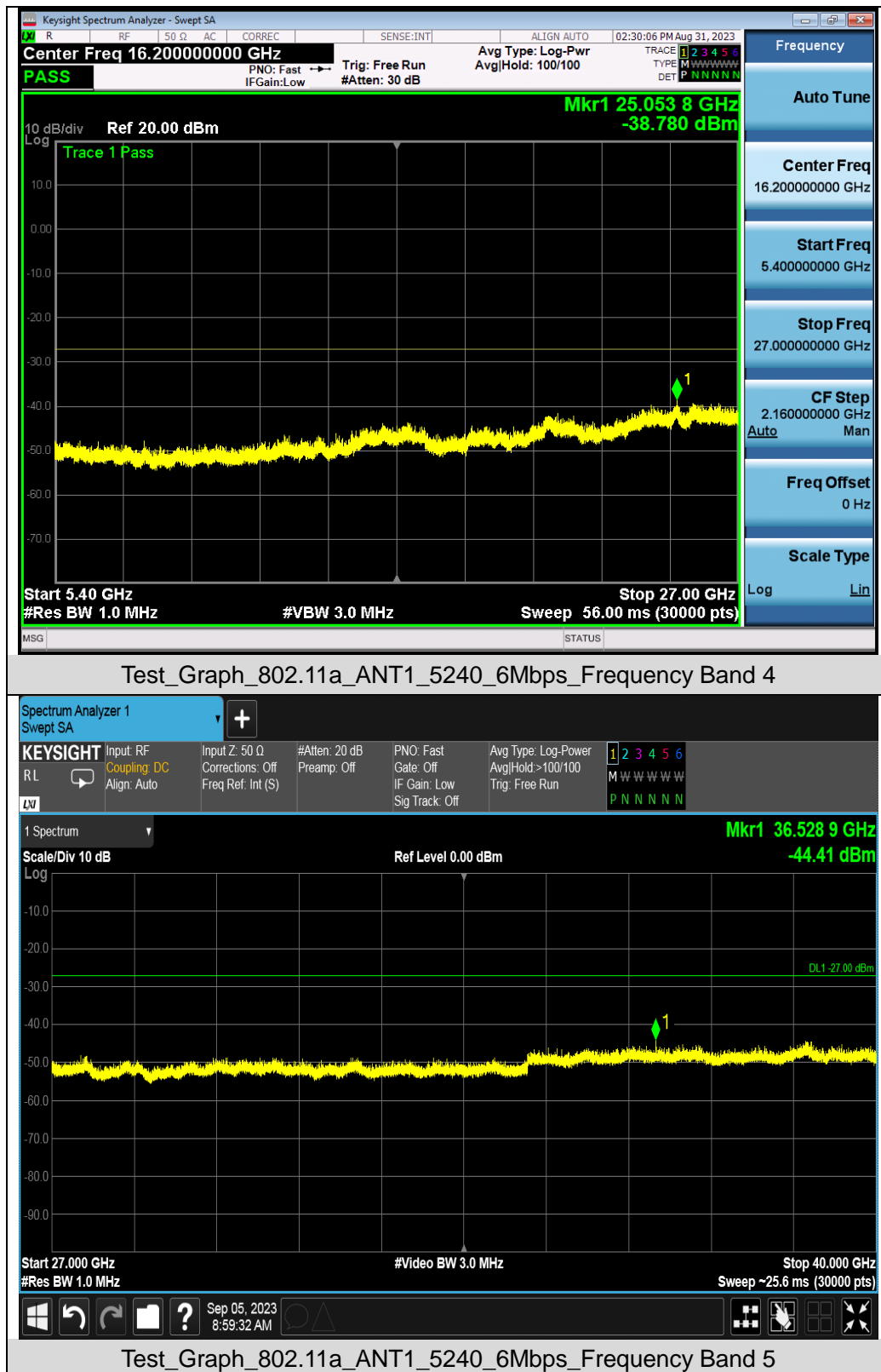
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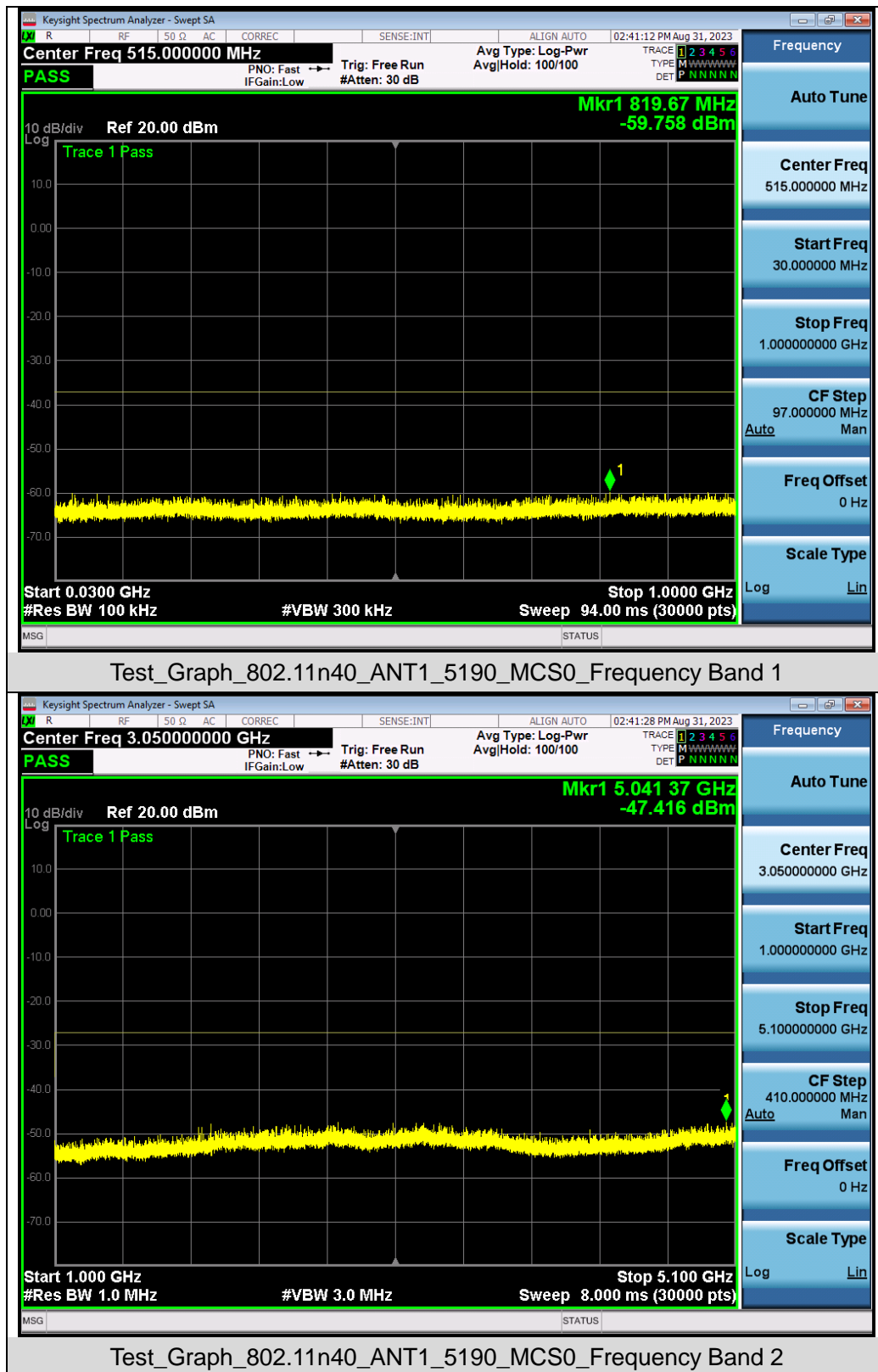
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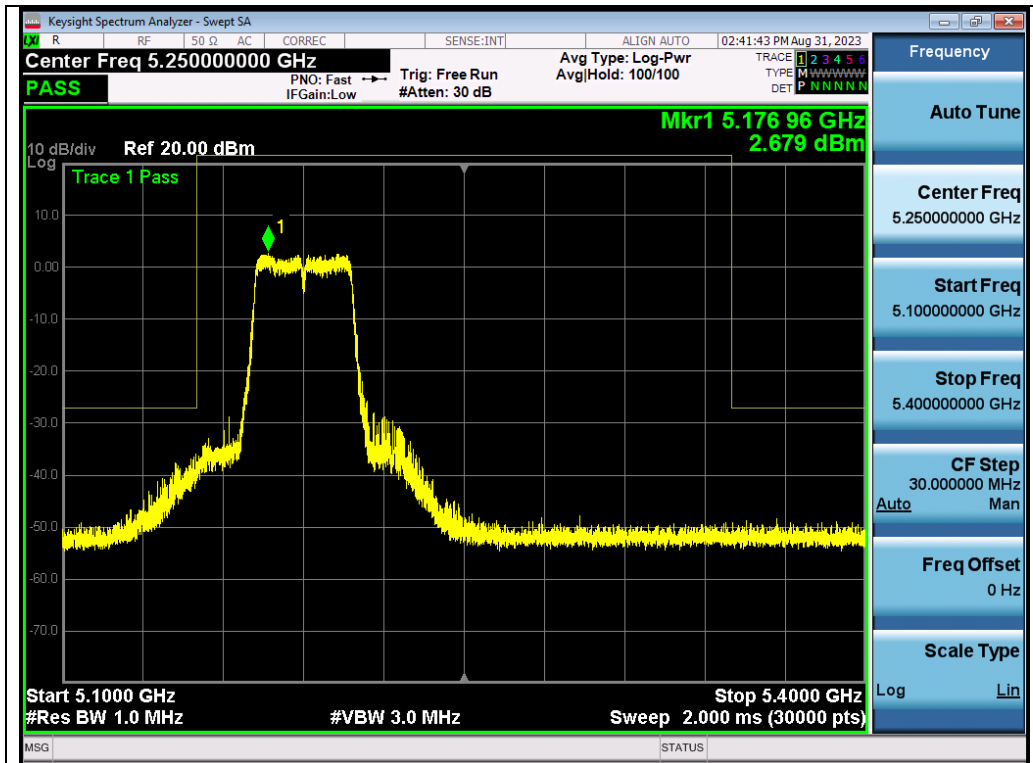


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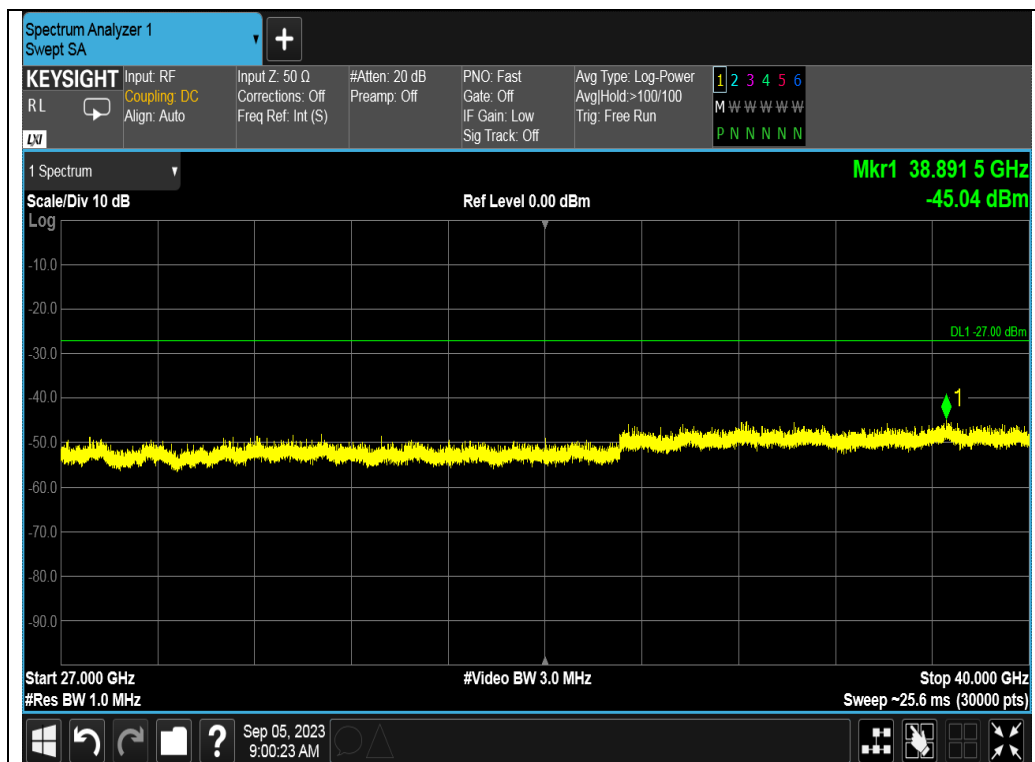
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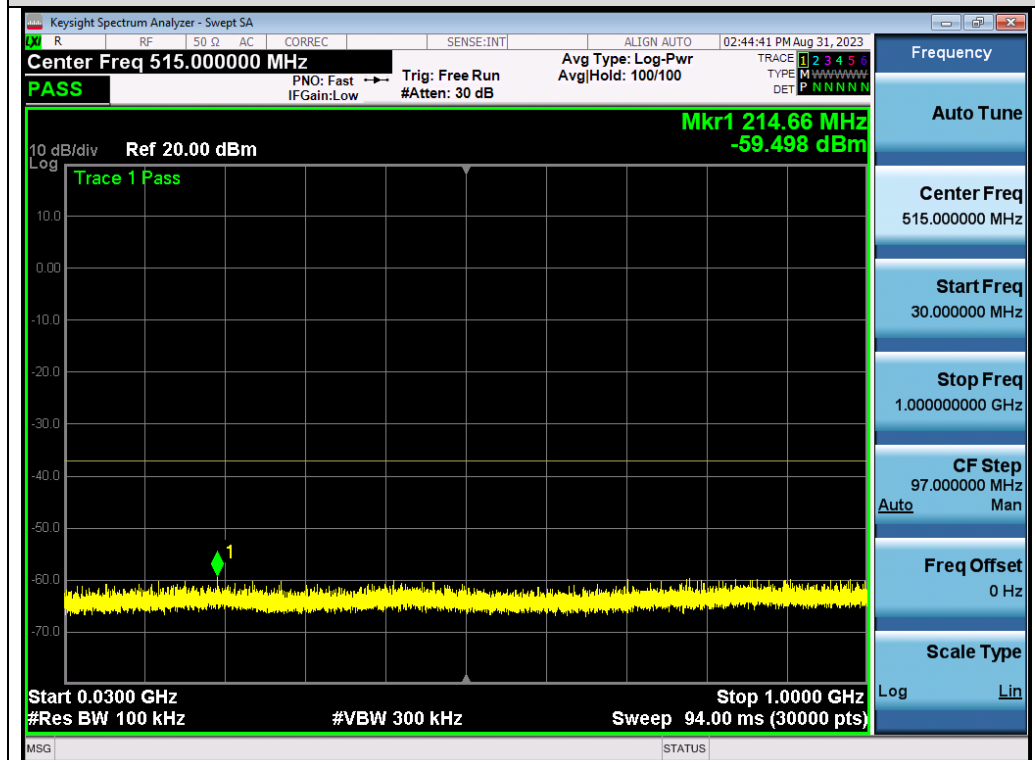
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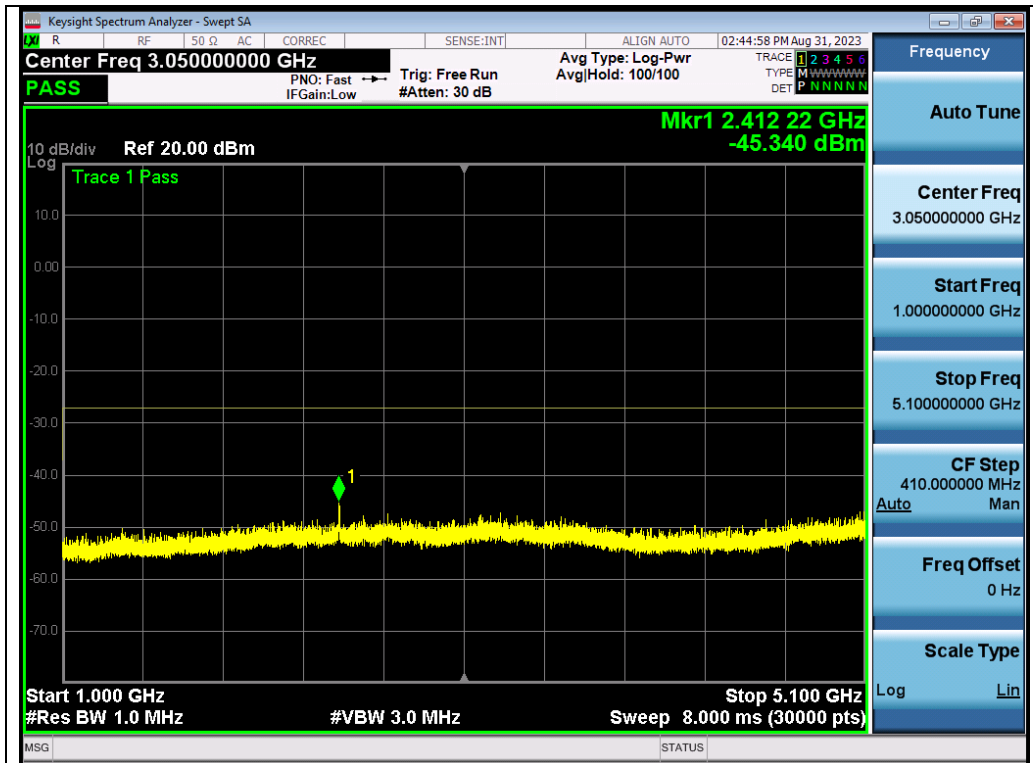
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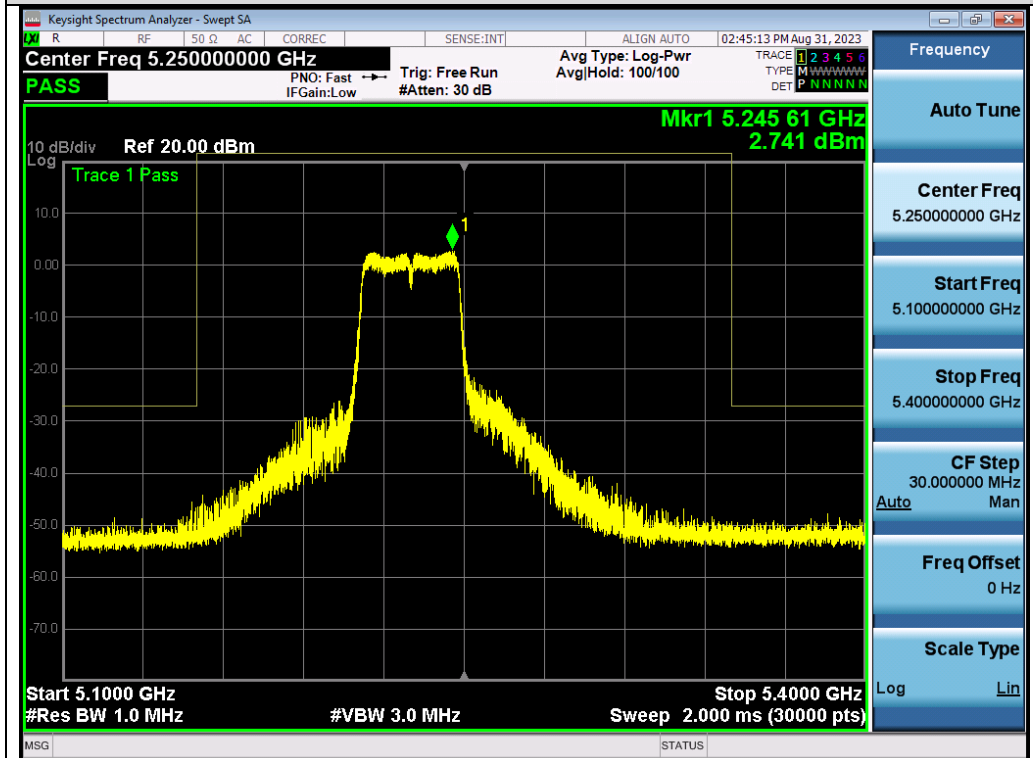
Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 1

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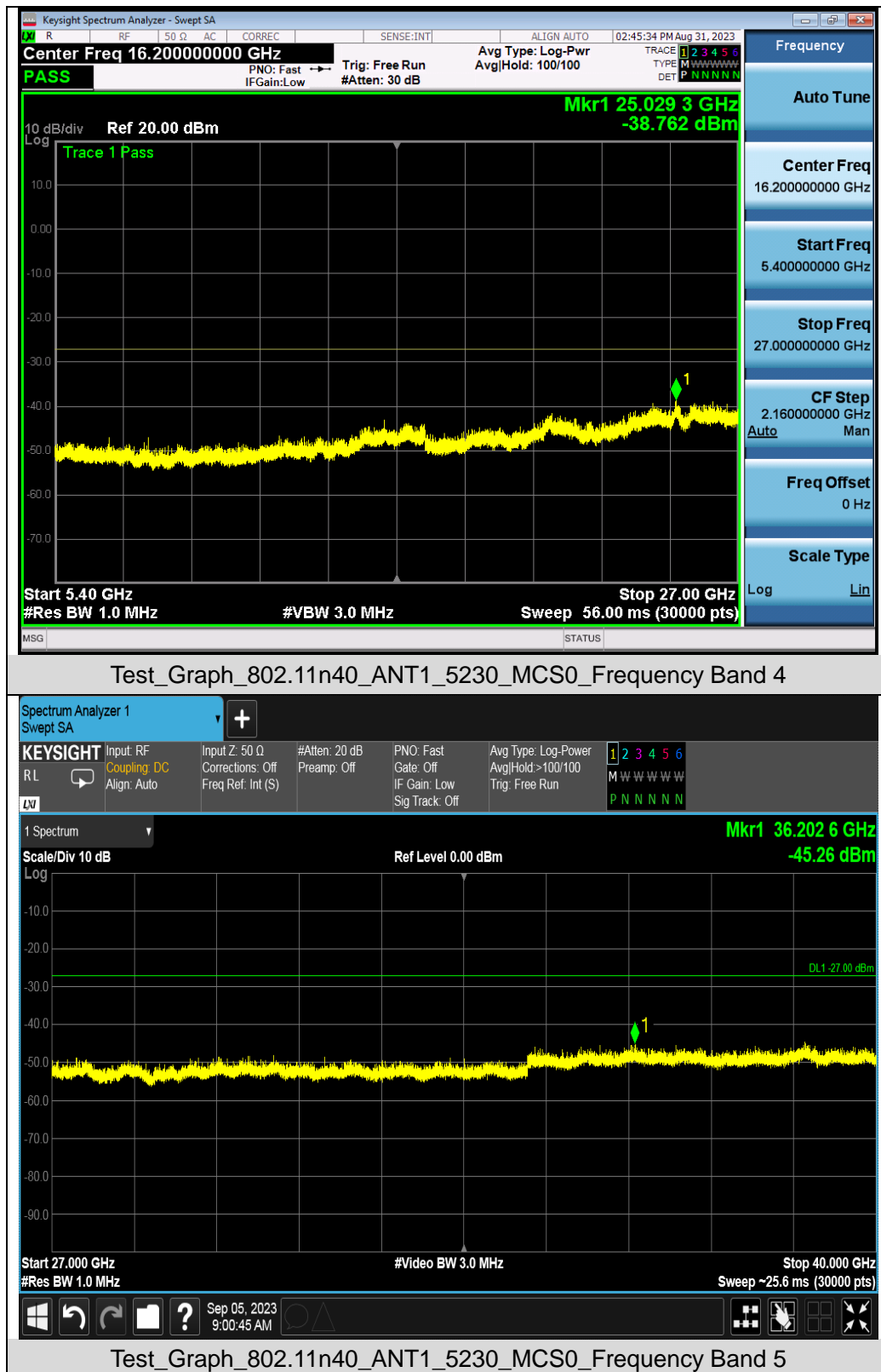


Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 2



Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 3

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