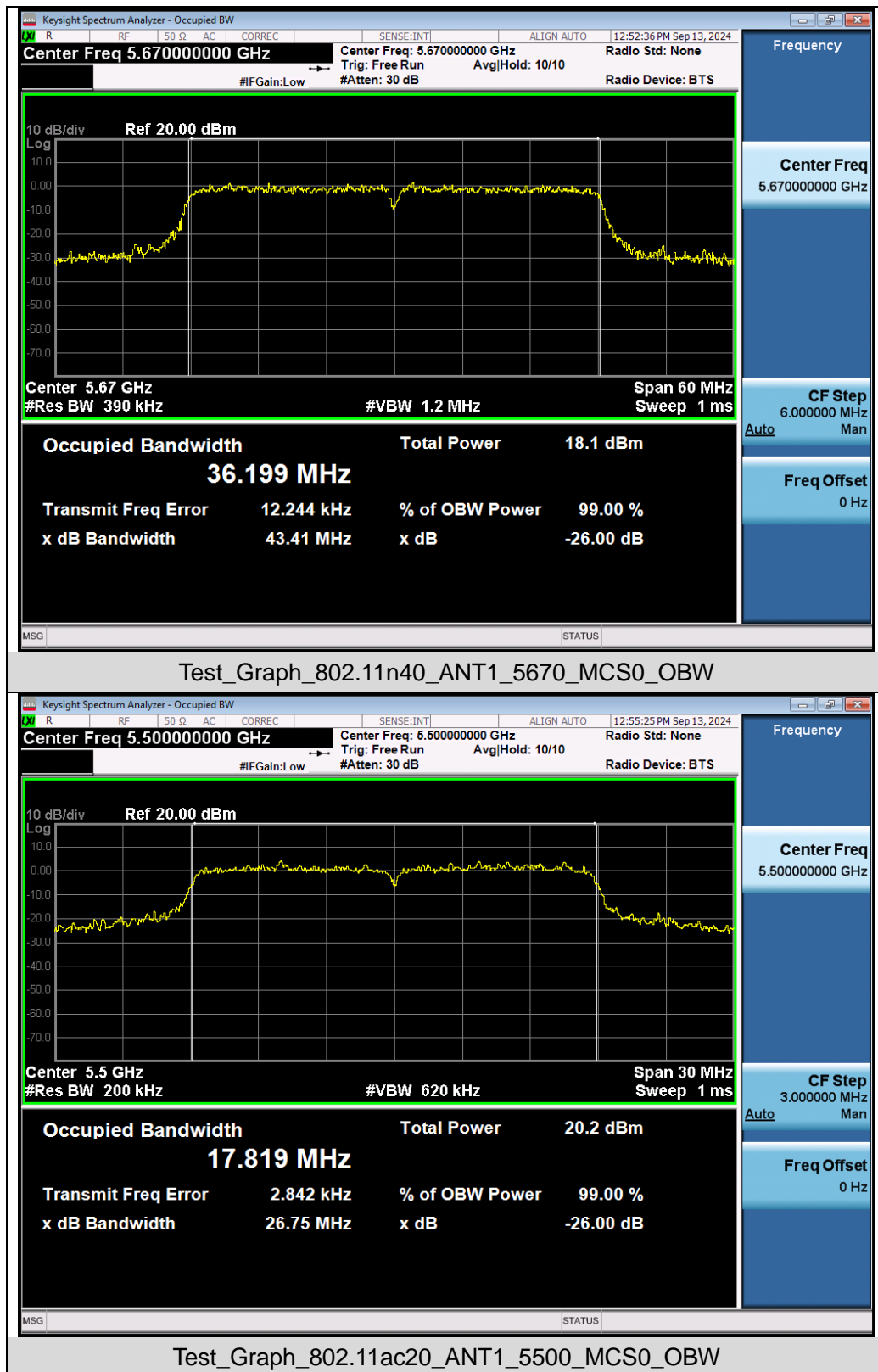
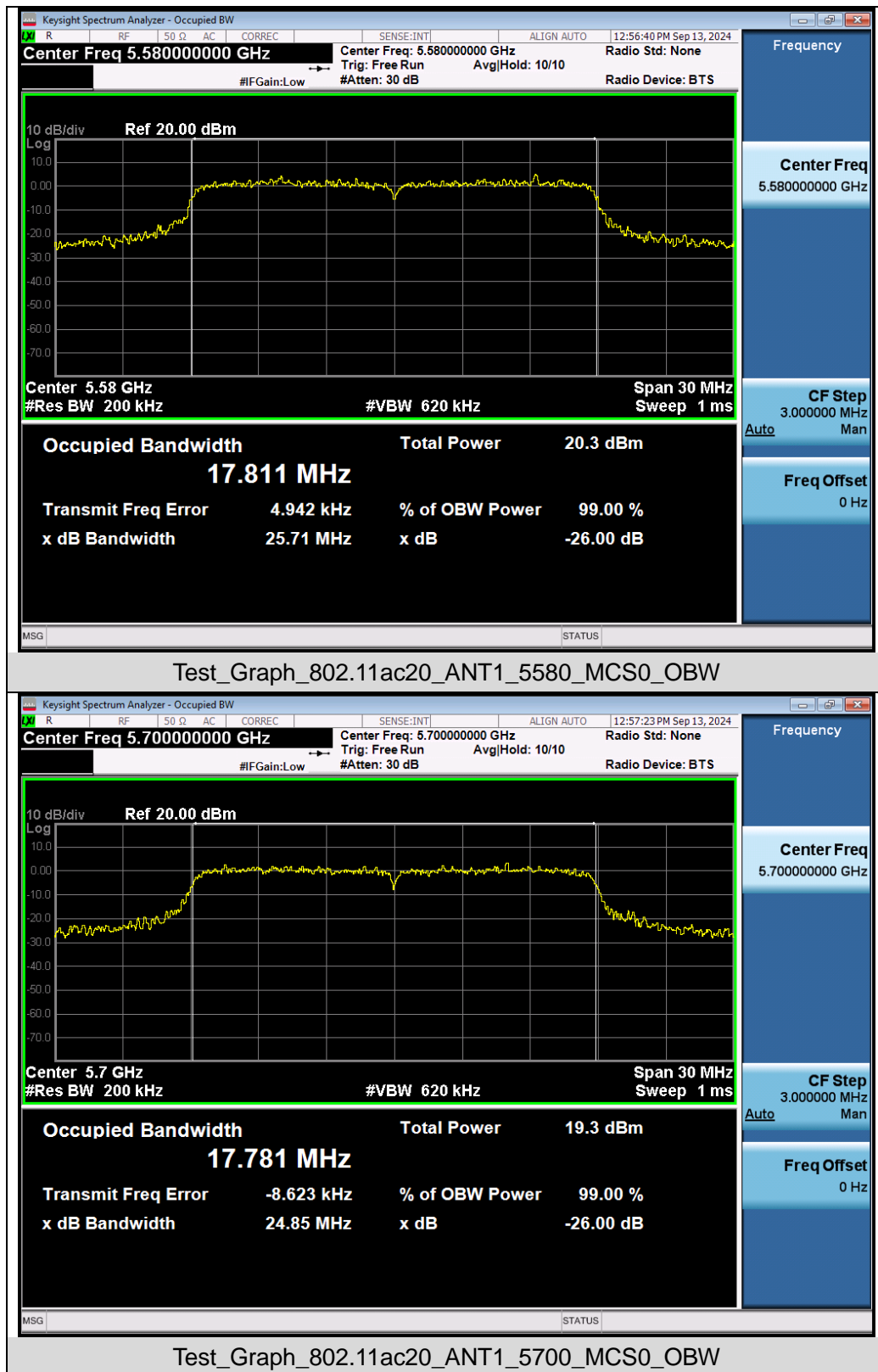


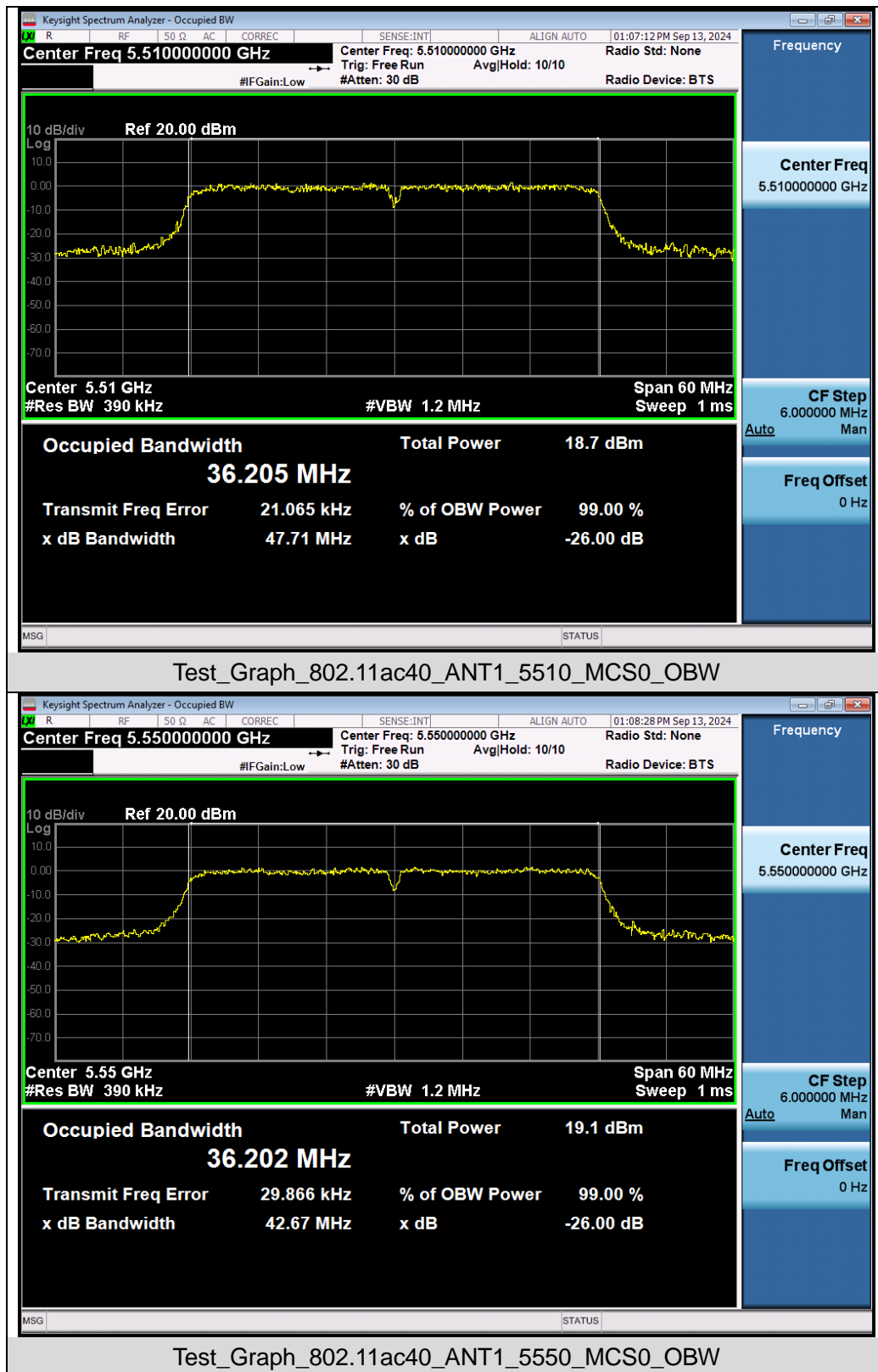
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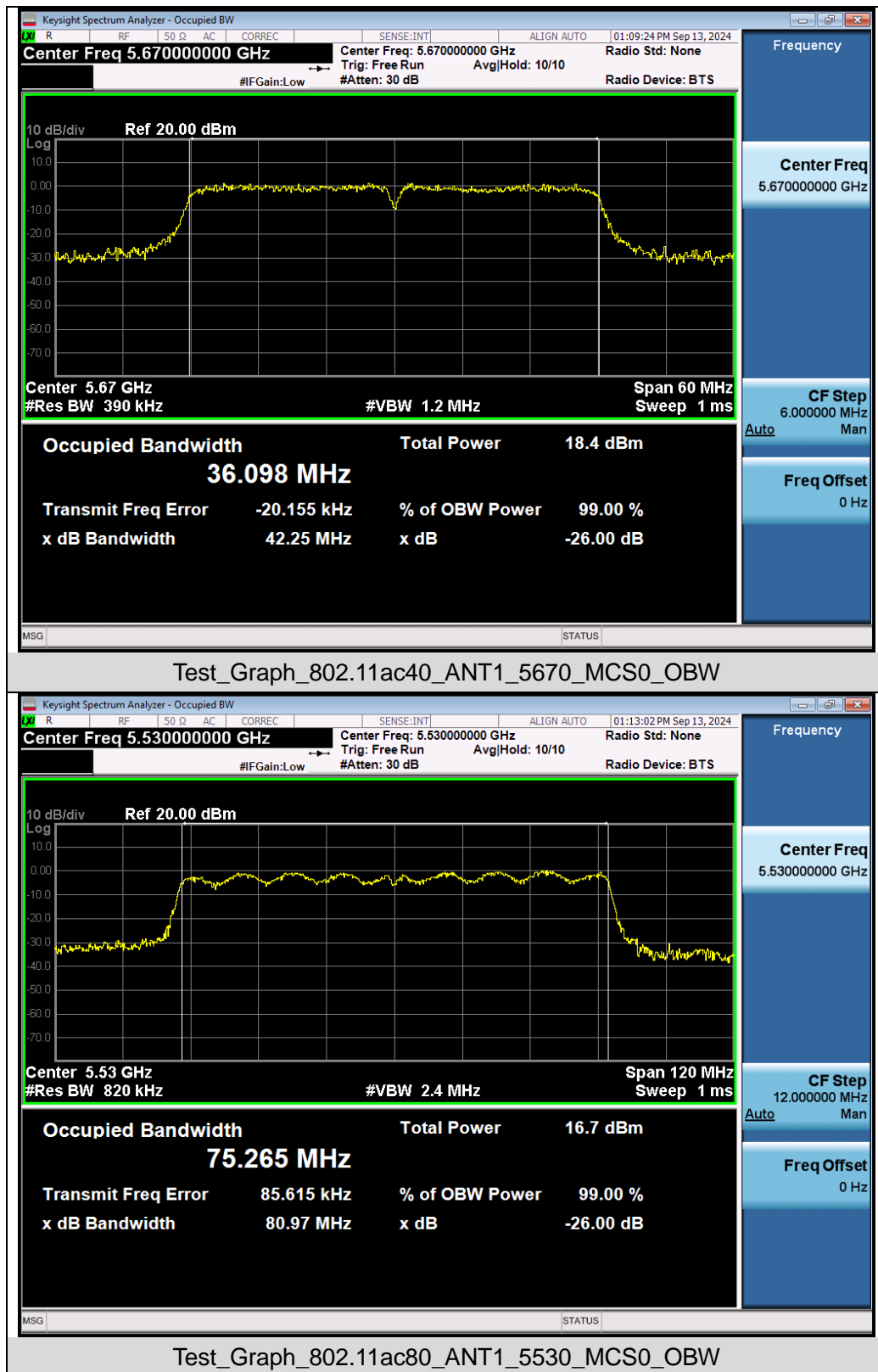
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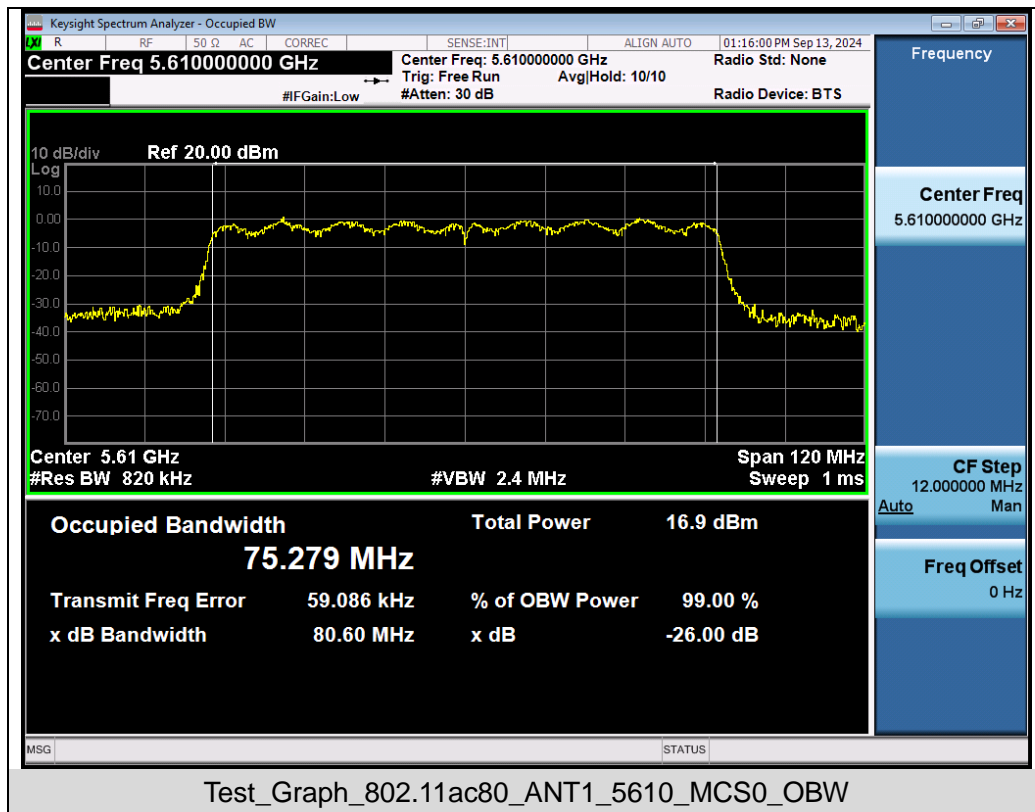
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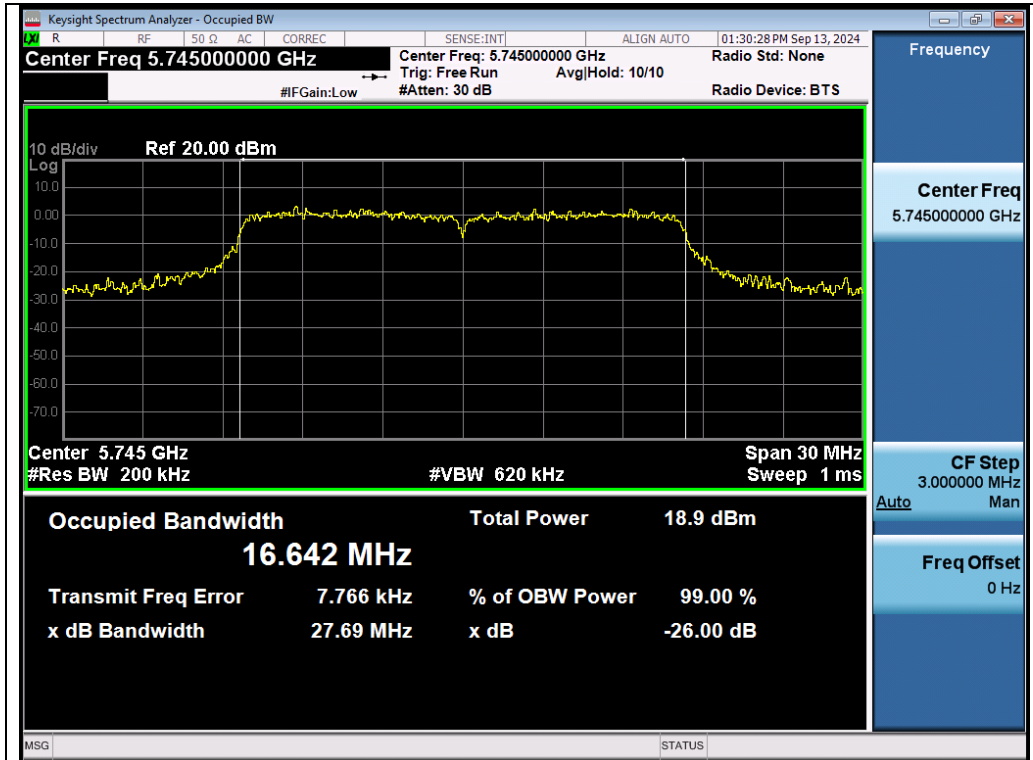


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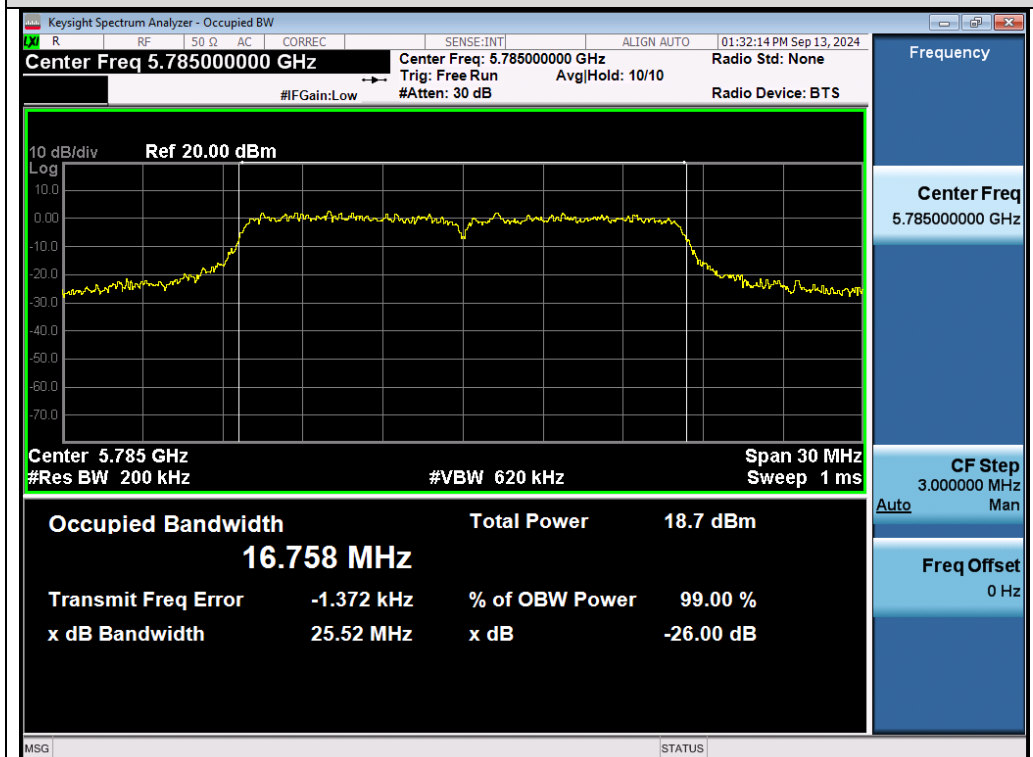


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

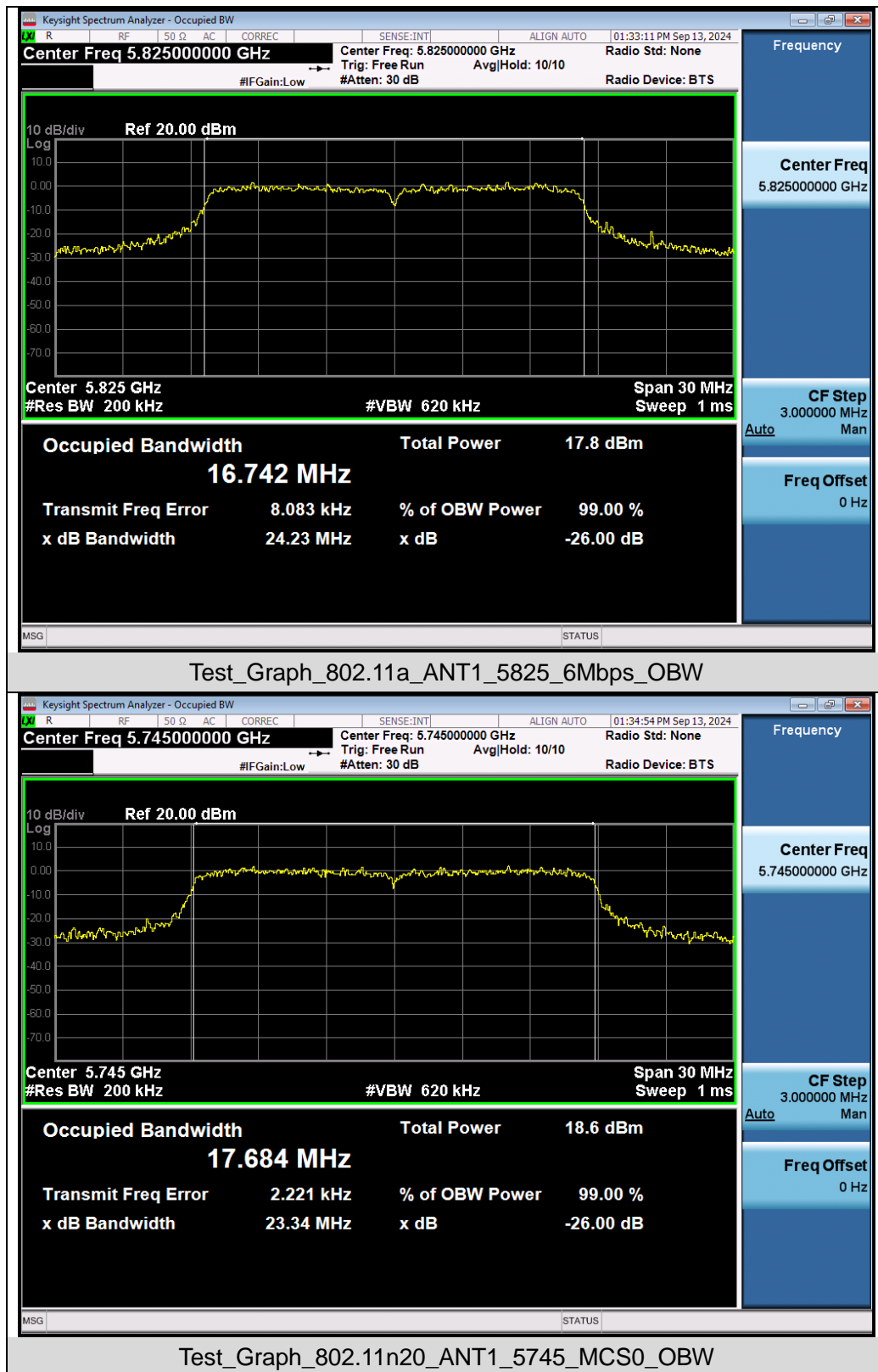


Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



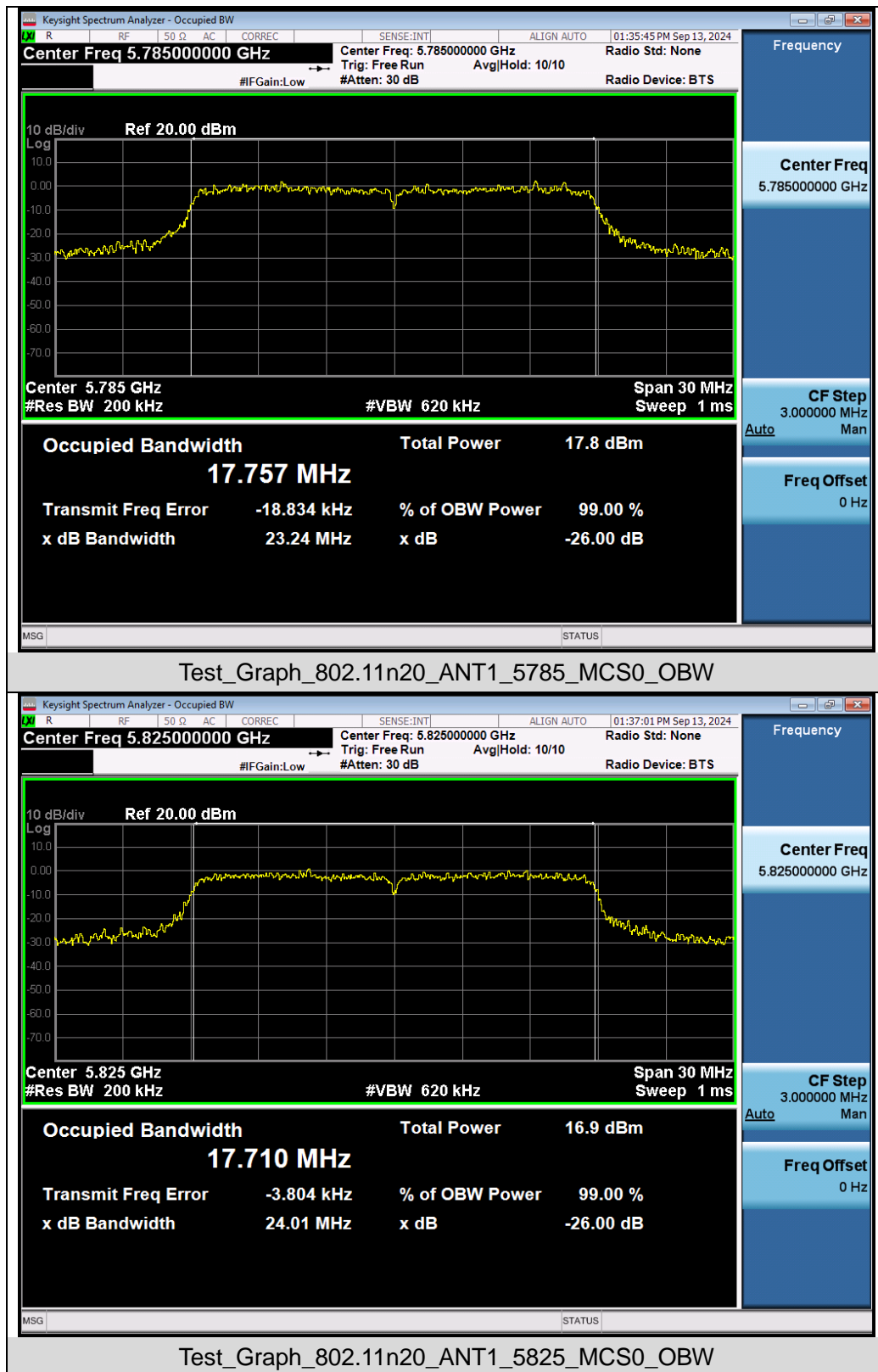
Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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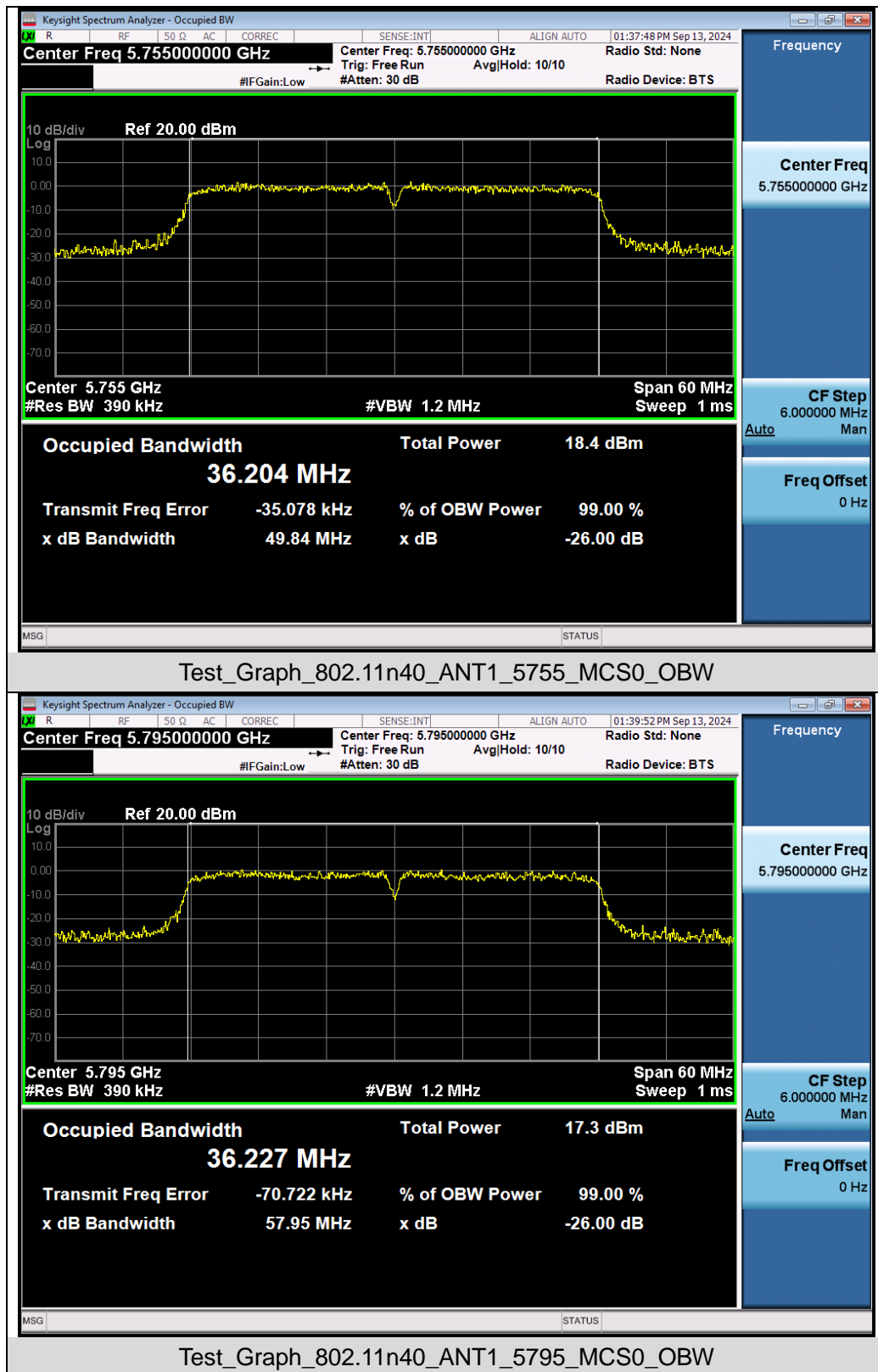


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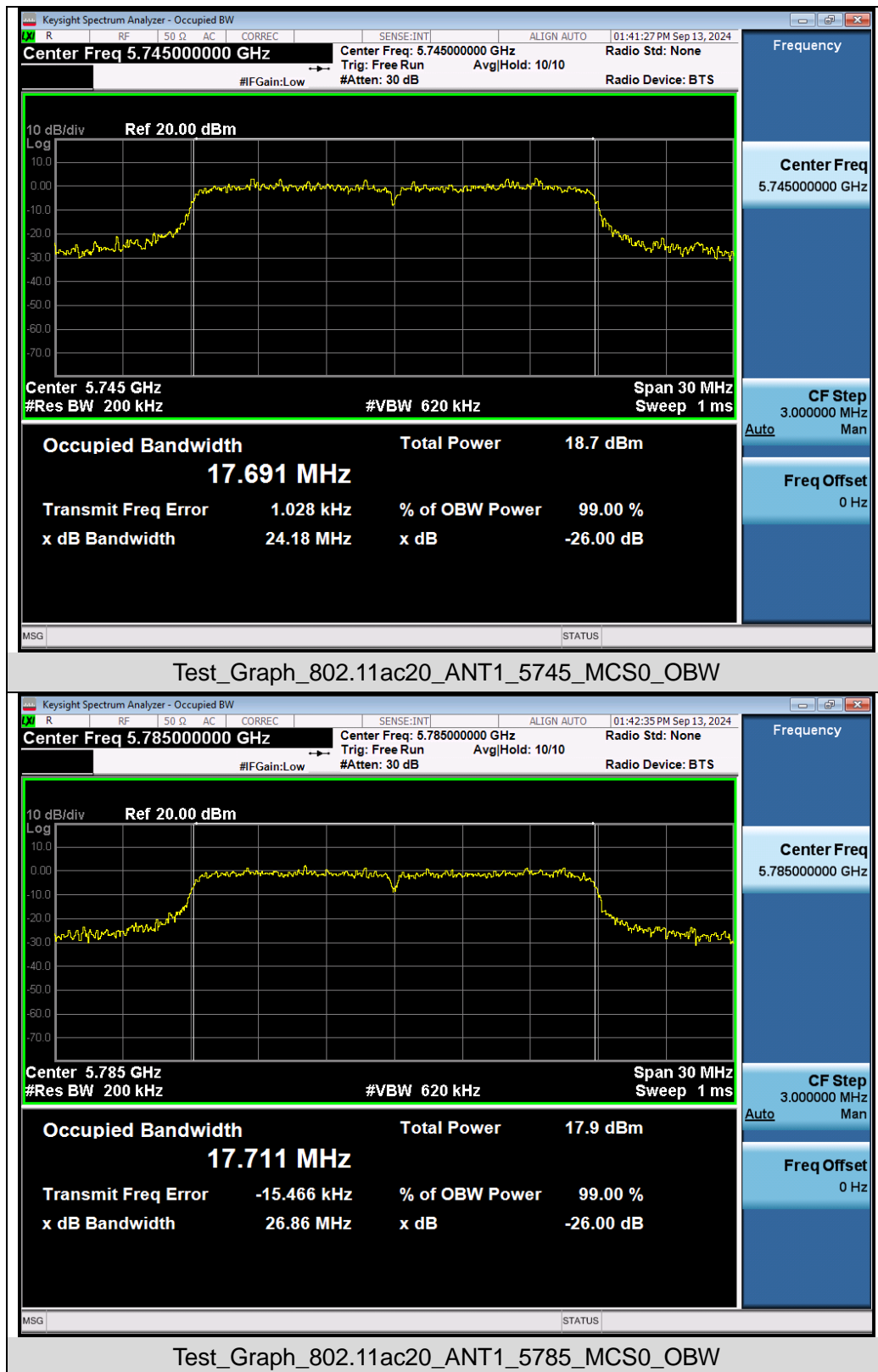
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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
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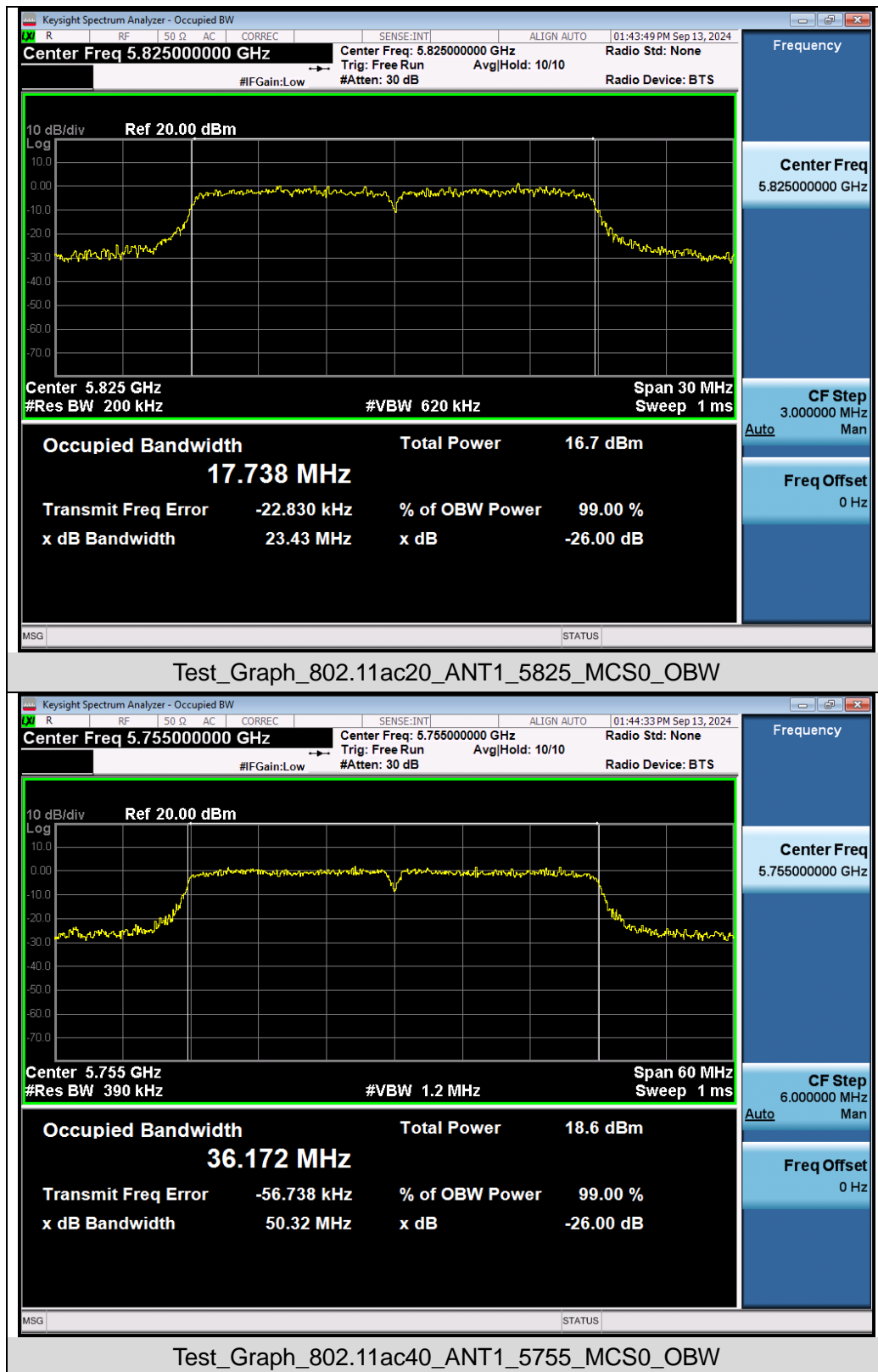
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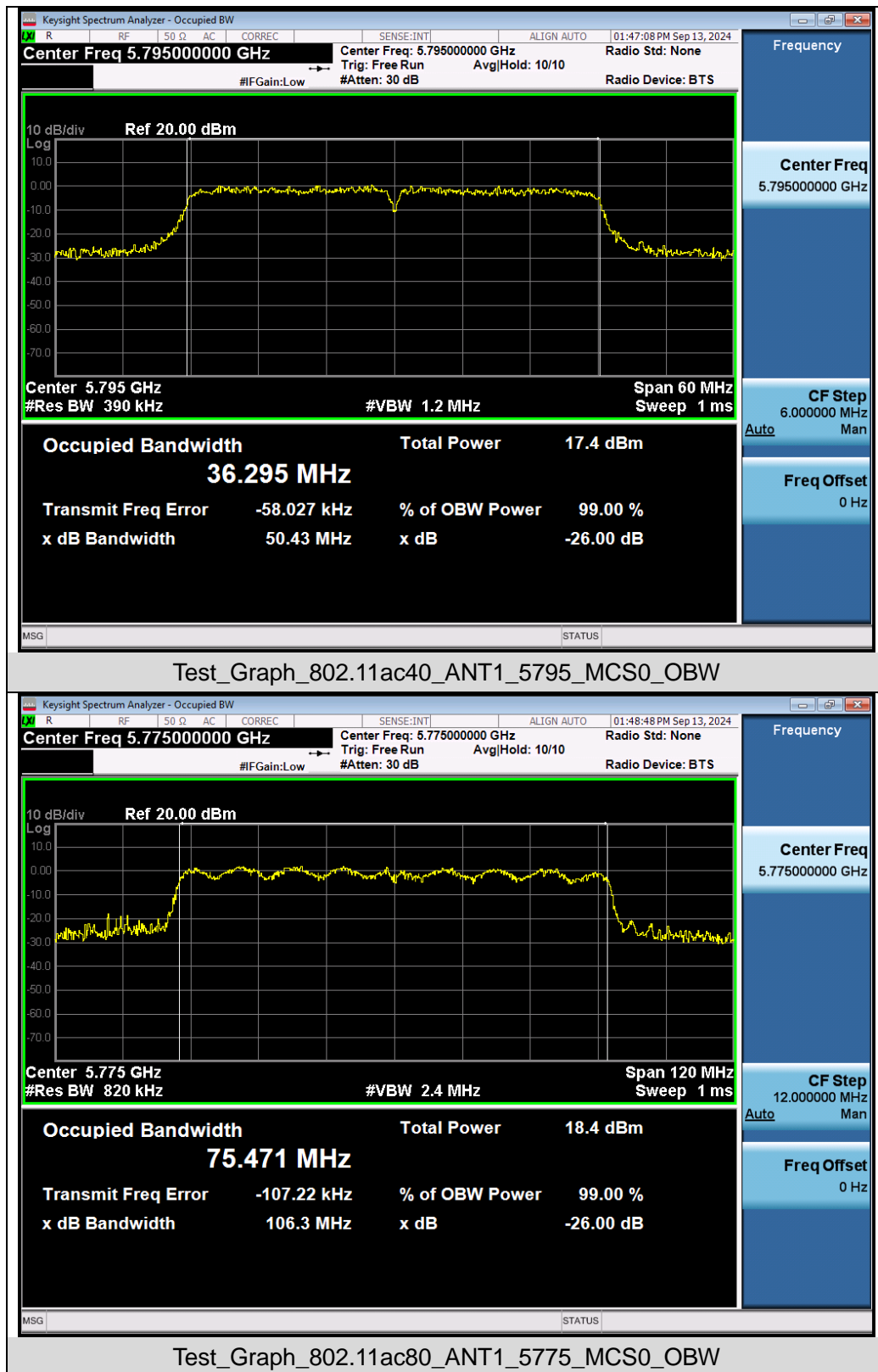
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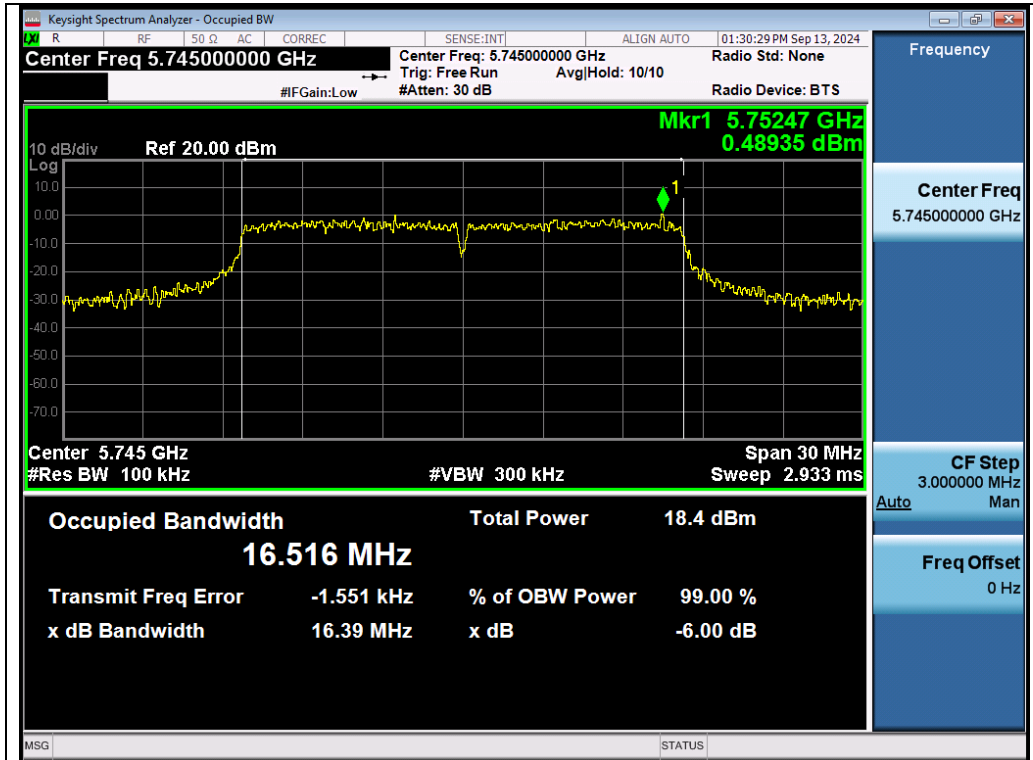


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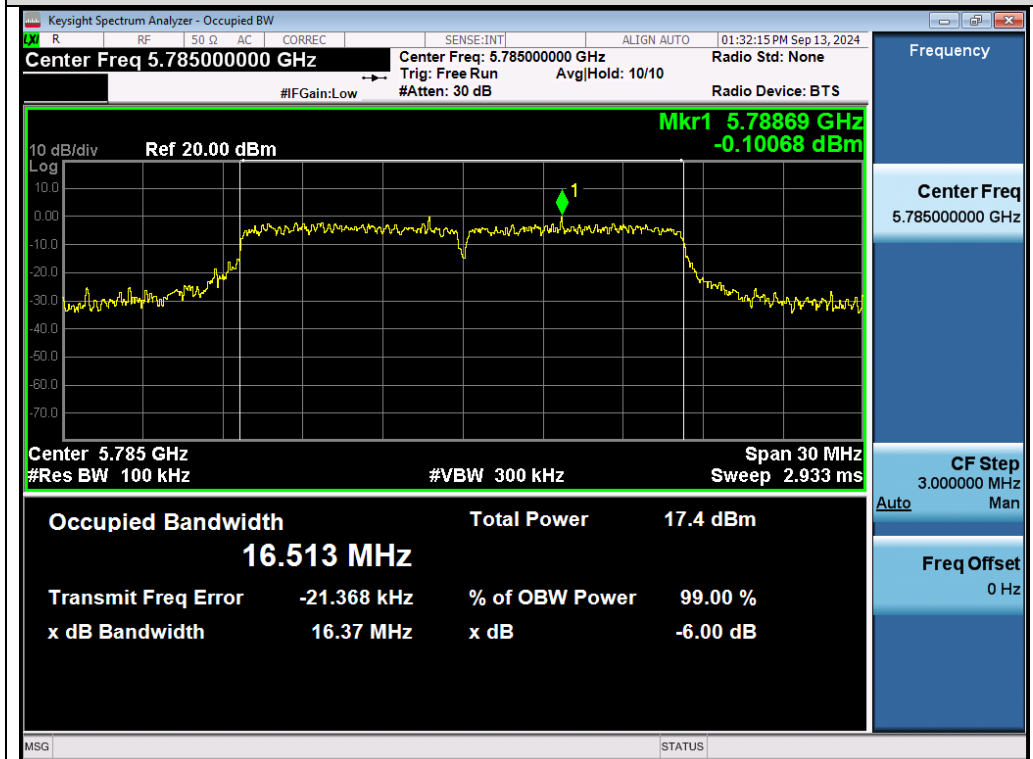


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

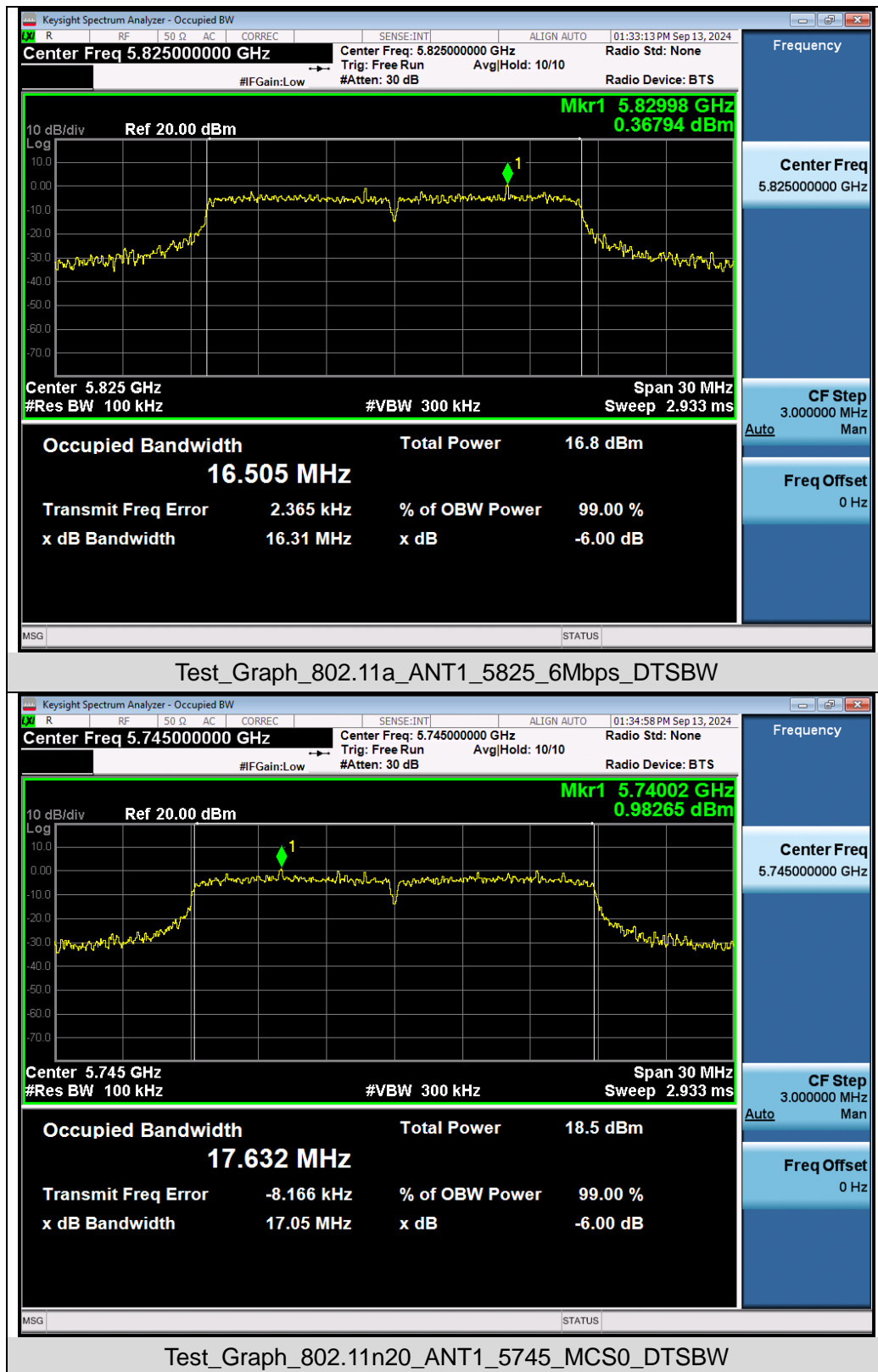


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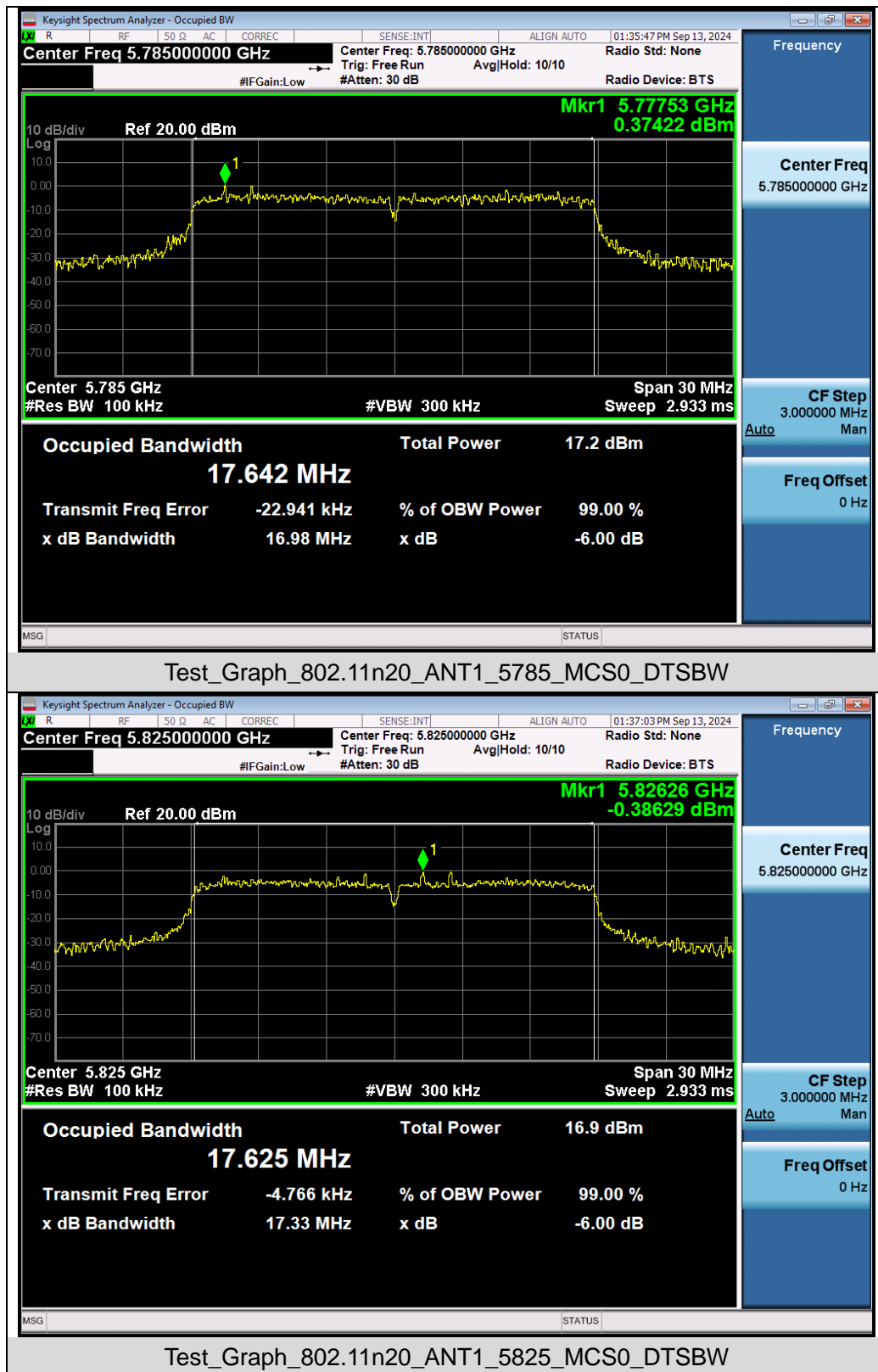


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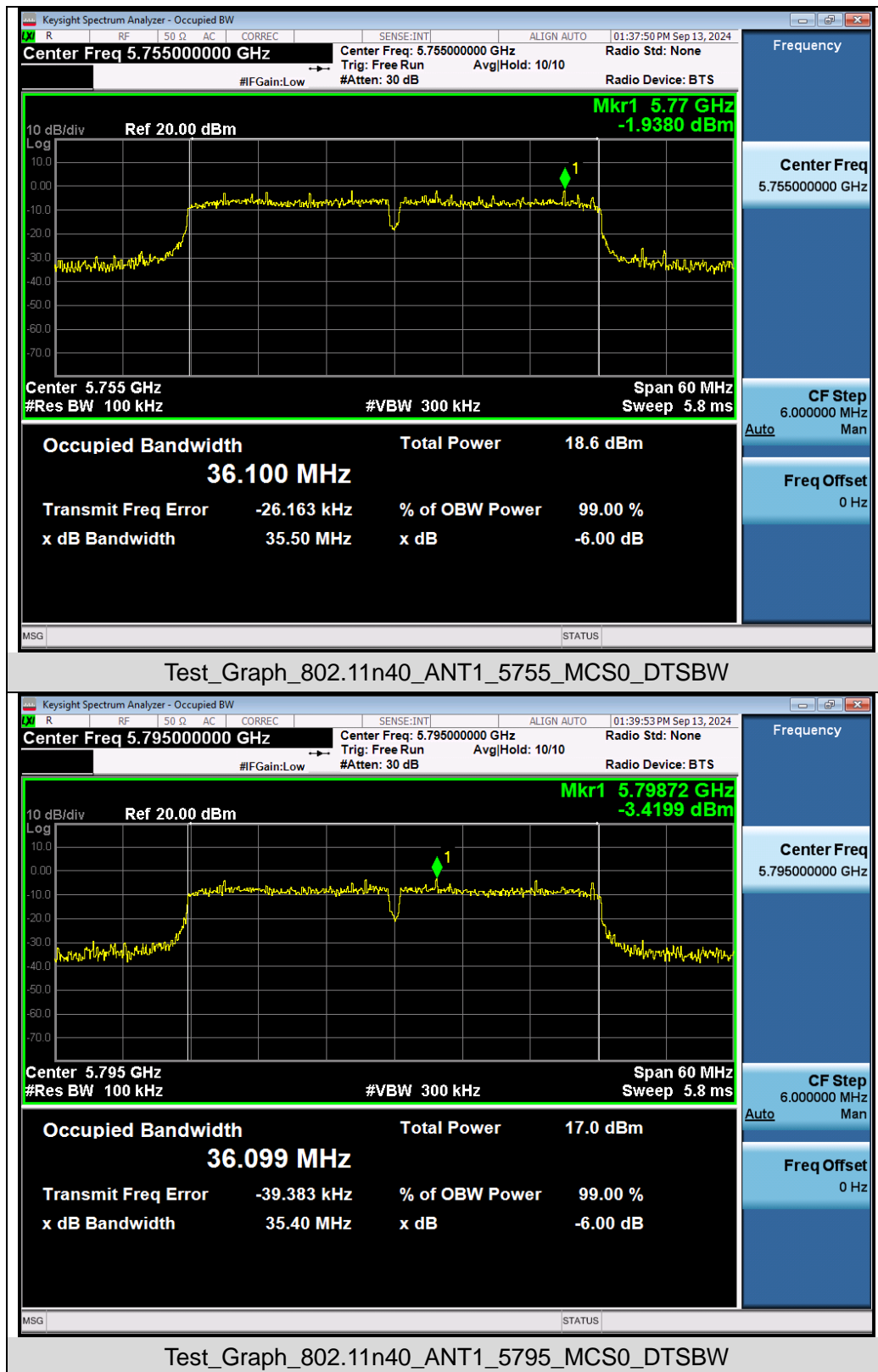
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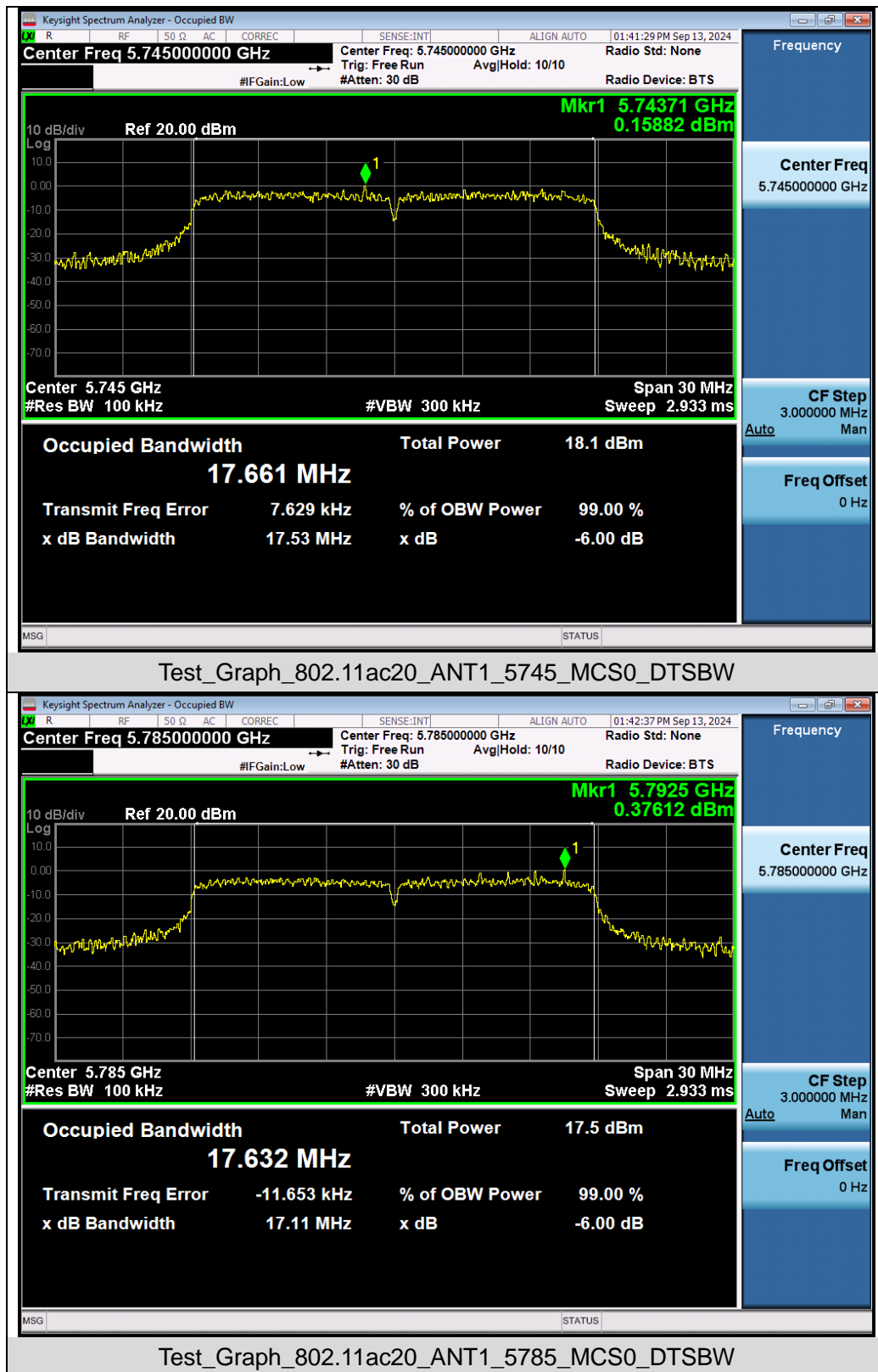


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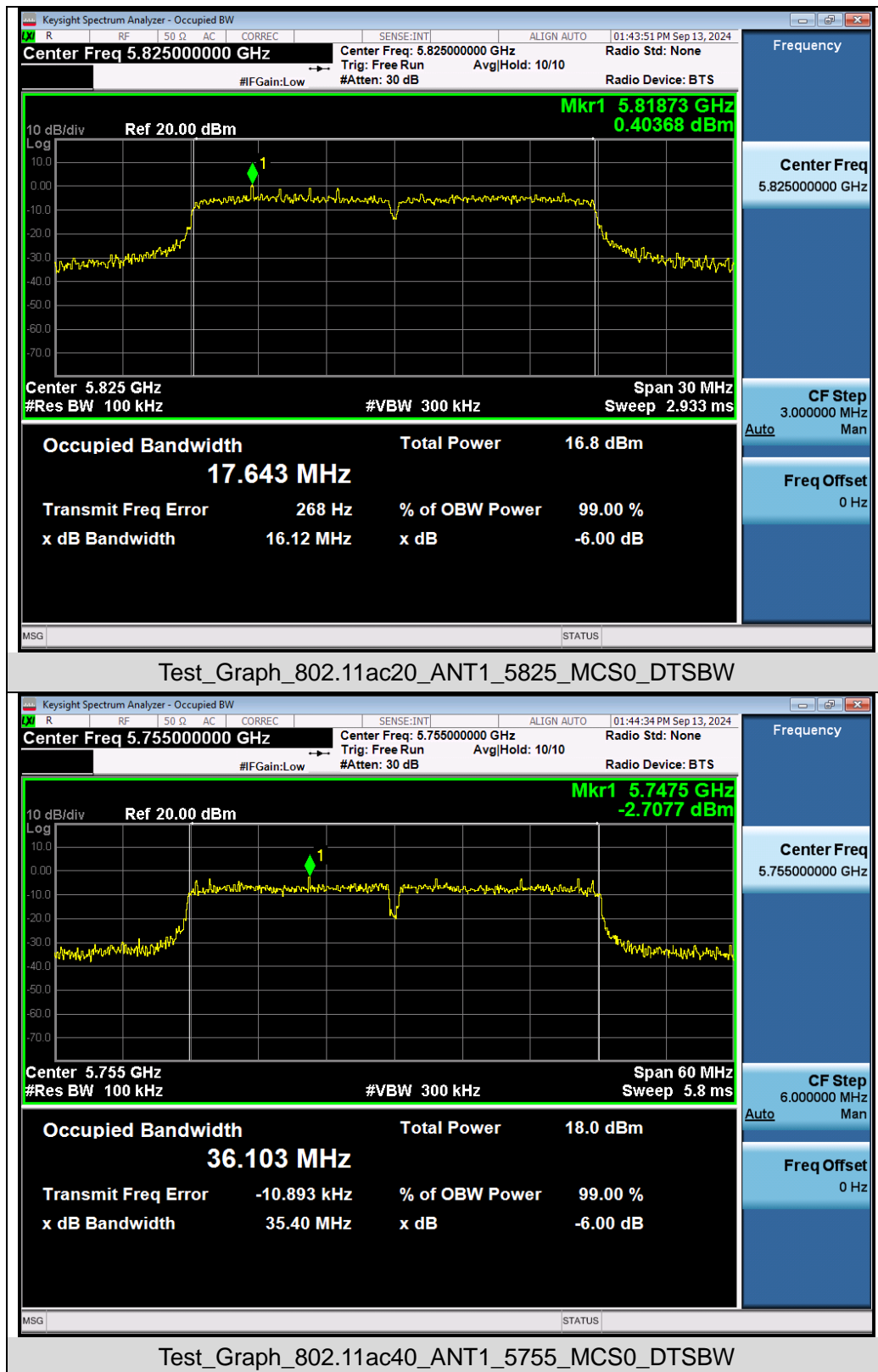
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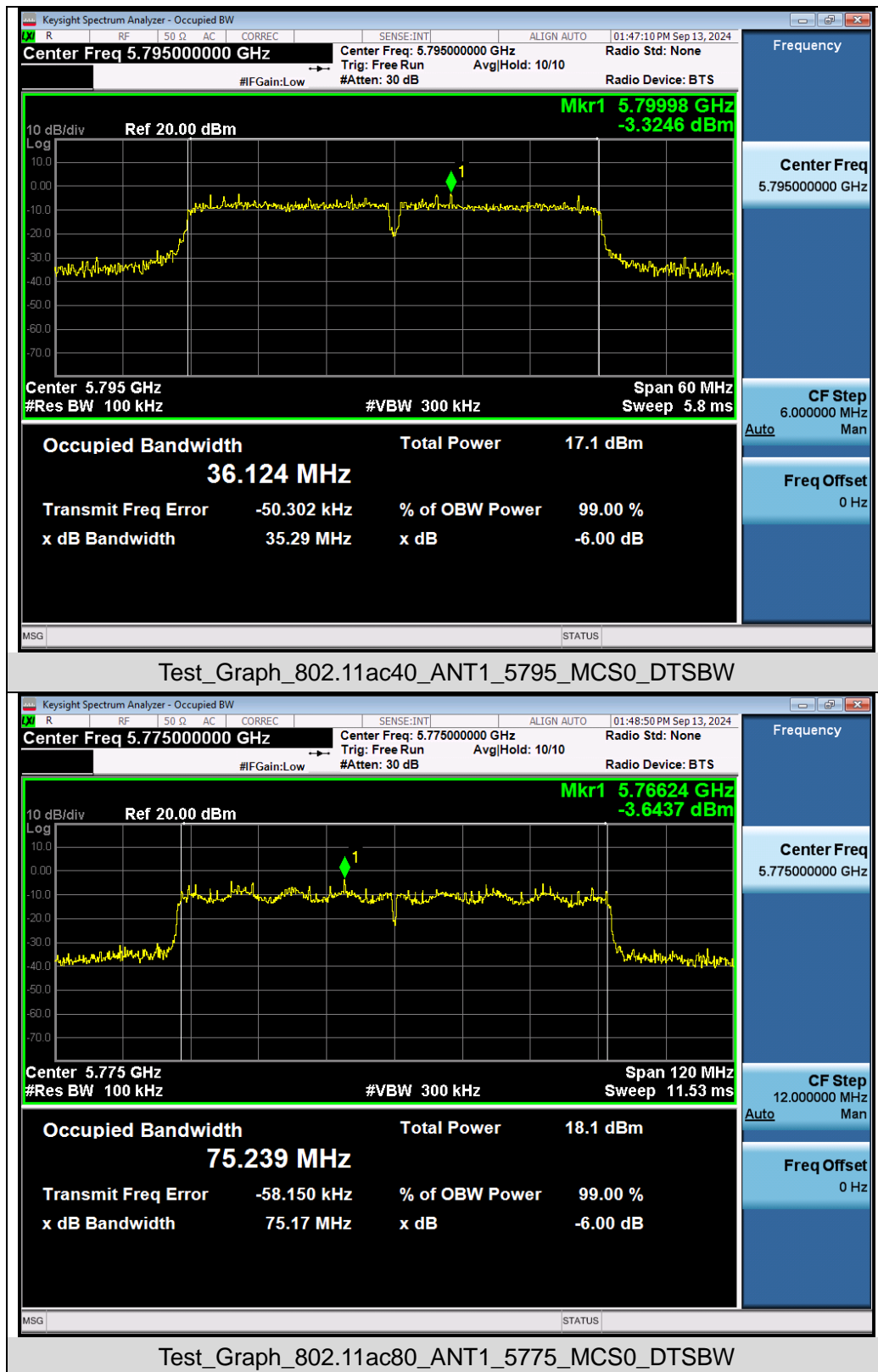


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9. Power Spectral Density Measurement

9.1 Provisions Applicable

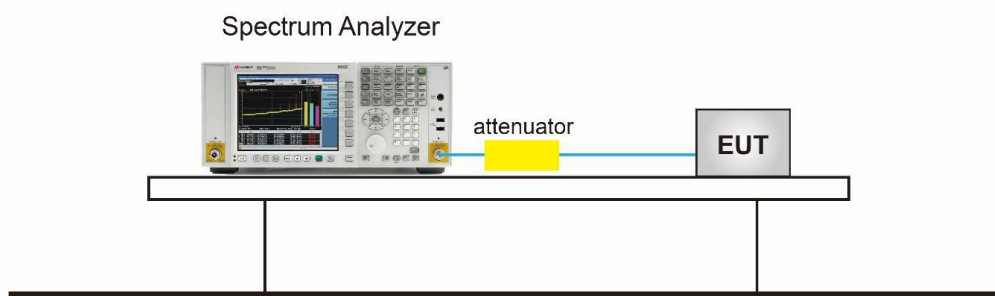
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		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 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. The final test results have been increased by the duty cycle factor and recorded 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	3.268	11	Pass
	5200	3.457	11	Pass
	5240	4.327	11	Pass
802.11n20	5180	3.041	11	Pass
	5200	3.259	11	Pass
	5240	3.514	11	Pass
802.11n40	5190	-3.550	11	Pass
	5230	-2.598	11	Pass
802.11ac20	5180	2.268	11	Pass
	5200	2.886	11	Pass
	5240	3.816	11	Pass
802.11ac40	5190	-3.420	11	Pass
	5230	-2.463	11	Pass
802.11ac80	5210	-5.109	11	Pass

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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	4.254	11	Pass
	5300	4.497	11	Pass
	5320	4.090	11	Pass
802.11n20	5260	3.434	11	Pass
	5300	3.903	11	Pass
	5320	3.688	11	Pass
802.11n40	5270	-2.789	11	Pass
	5310	-2.369	11	Pass
802.11ac20	5260	3.588	11	Pass
	5300	3.826	11	Pass
	5320	3.784	11	Pass
802.11ac40	5270	-2.955	11	Pass
	5310	-2.008	11	Pass
802.11ac80	5290	-4.361	11	Pass

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Test Data of Conducted Output Power Density for band 5.470-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	2.411	11	Pass
	5580	3.444	11	Pass
	5700	2.362	11	Pass
802.11n20	5500	2.648	11	Pass
	5580	3.279	11	Pass
	5700	2.008	11	Pass
802.11n40	5510	-2.278	11	Pass
	5550	-1.617	11	Pass
	5670	-2.211	11	Pass
802.11ac20	5500	1.754	11	Pass
	5580	3.003	11	Pass
	5700	2.137	11	Pass
802.11ac40	5510	-2.140	11	Pass
	5590	-2.052	11	Pass
	5670	-2.419	11	Pass
802.11ac80	5530	-6.027	11	Pass
	5610	-6.063	11	Pass

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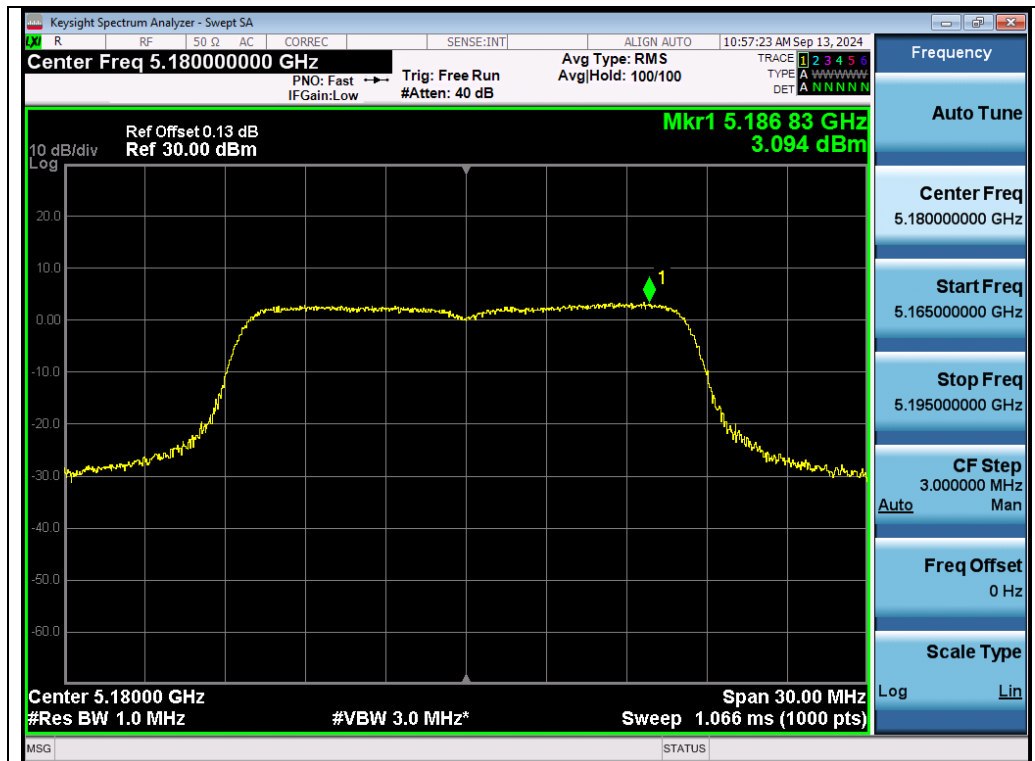
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.920	0.070	30	Pass
	5785	-7.861	-0.871	30	Pass
	5825	-9.011	-2.021	30	Pass
802.11n20	5745	-7.854	-0.864	30	Pass
	5785	-8.411	-1.421	30	Pass
	5825	-9.250	-2.260	30	Pass
802.11n40	5755	-11.179	-4.189	30	Pass
	5795	-11.006	-4.016	30	Pass
802.11ac20	5745	-7.636	-0.646	30	Pass
	5785	-8.035	-1.045	30	Pass
	5825	-9.418	-2.428	30	Pass
802.11ac40	5755	-11.495	-4.505	30	Pass
	5795	-12.335	-5.345	30	Pass
802.11ac80	5775	-13.460	-6.470	30	Pass

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

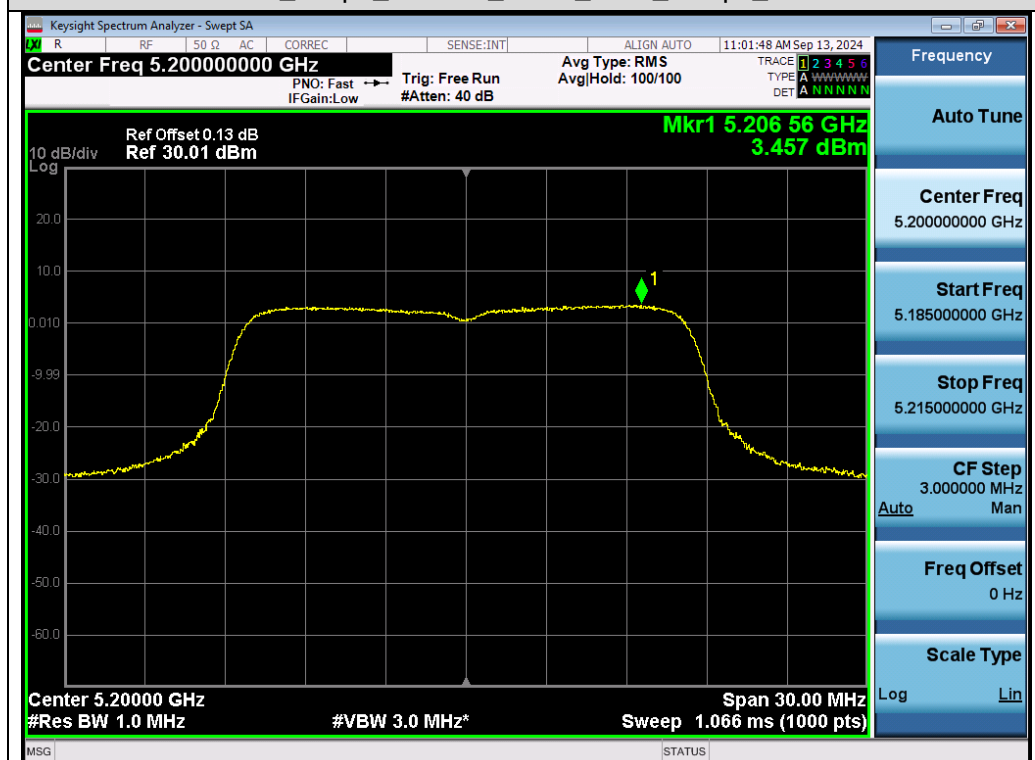
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

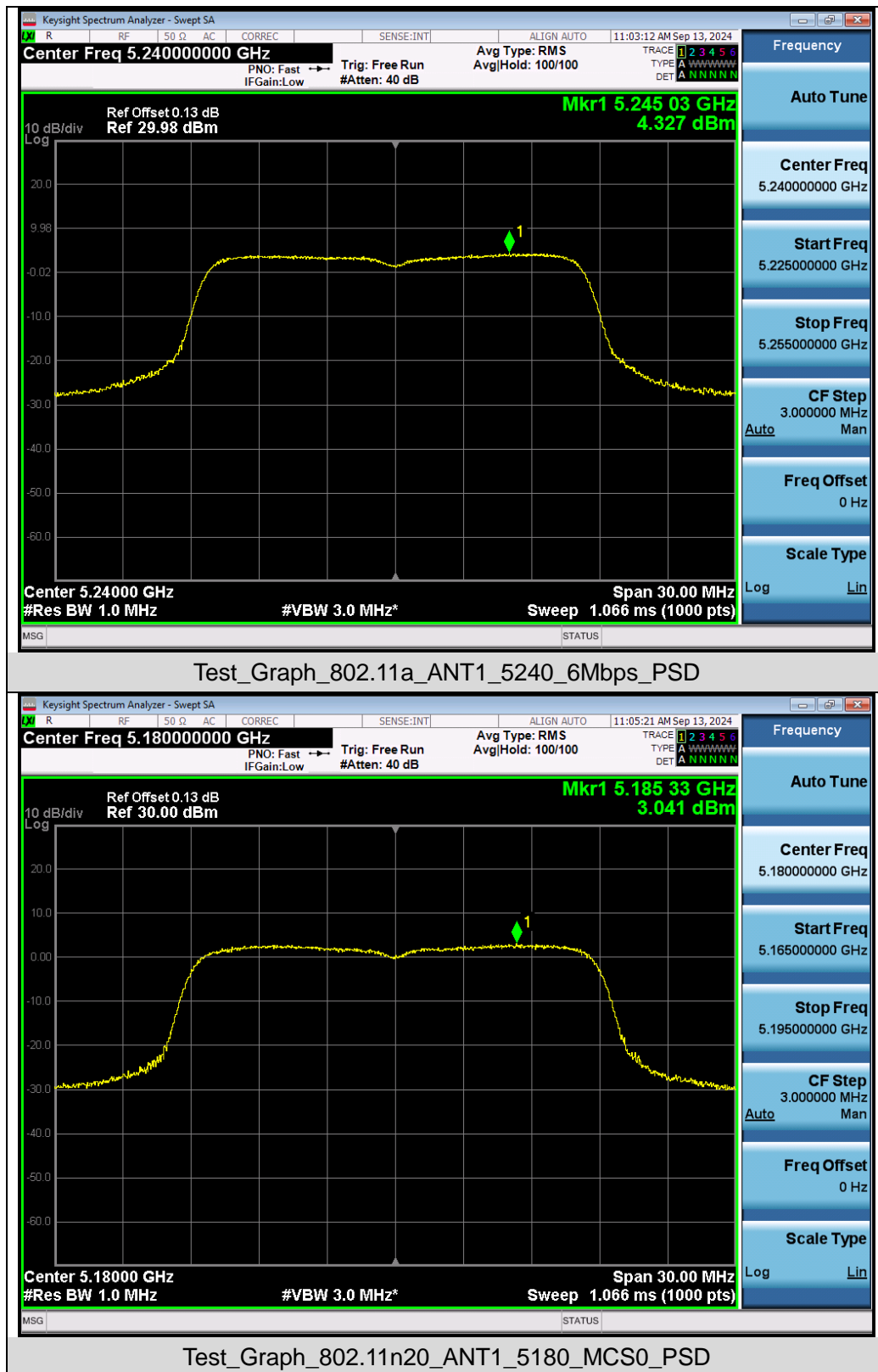


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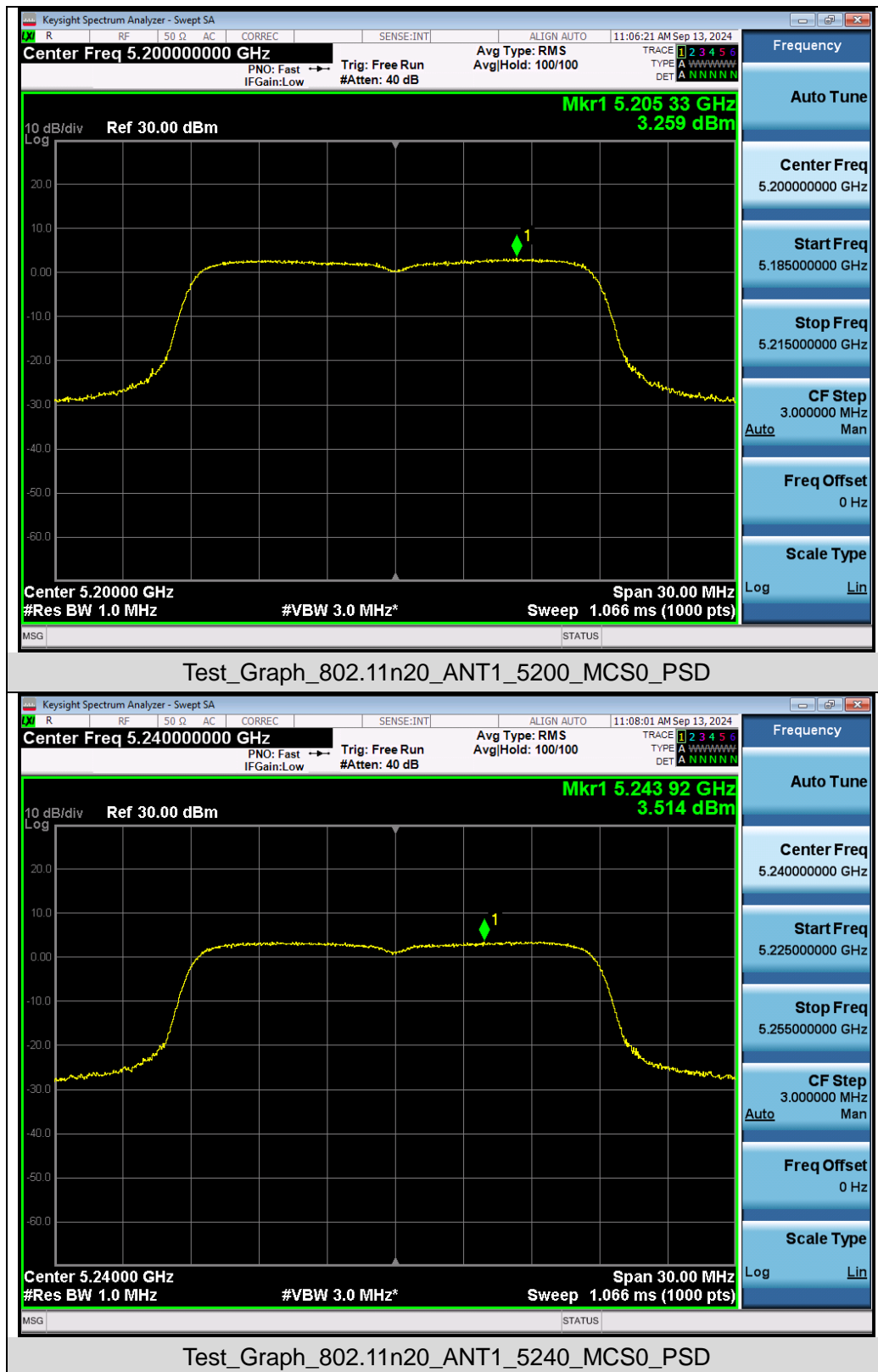


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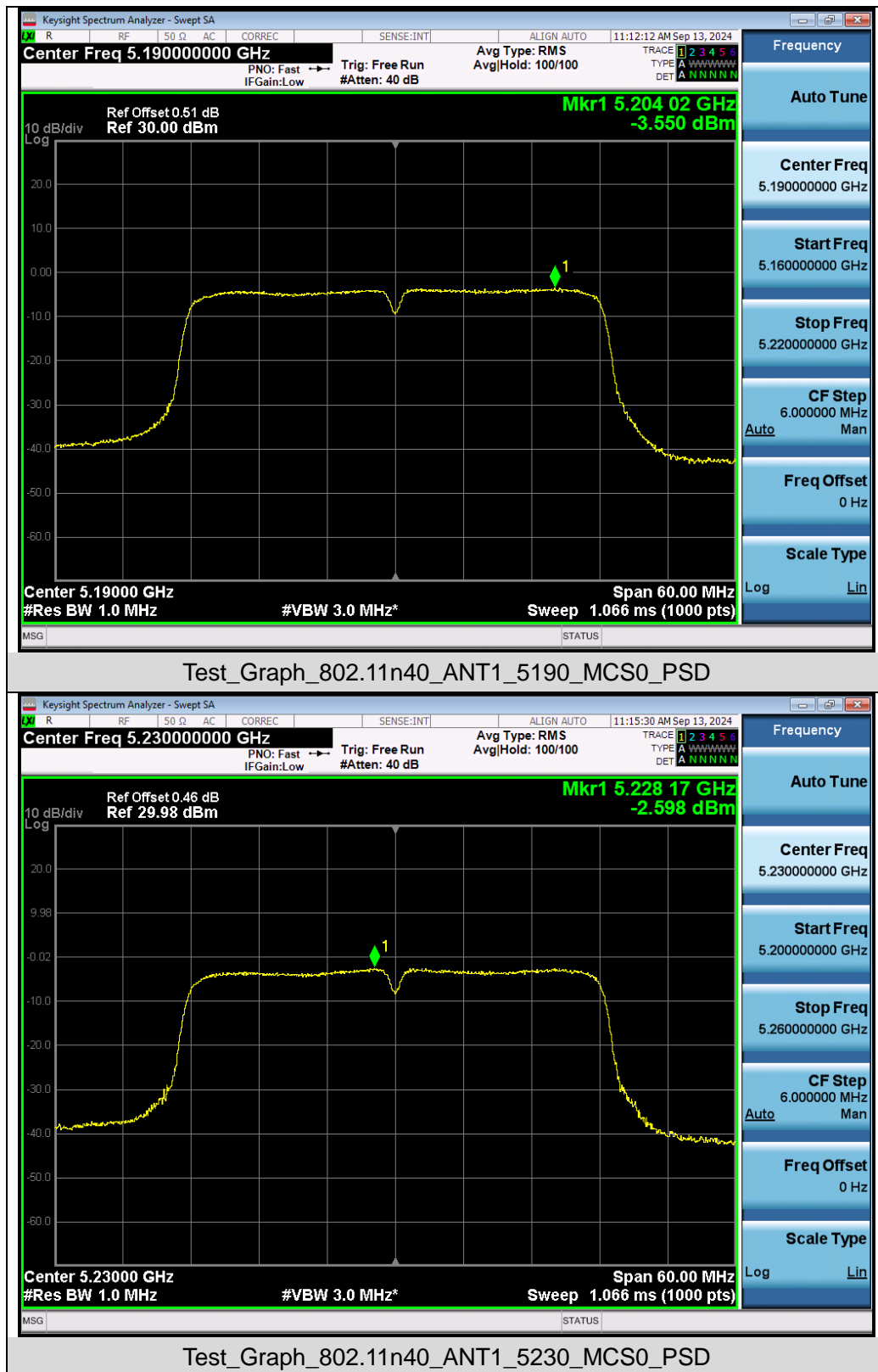


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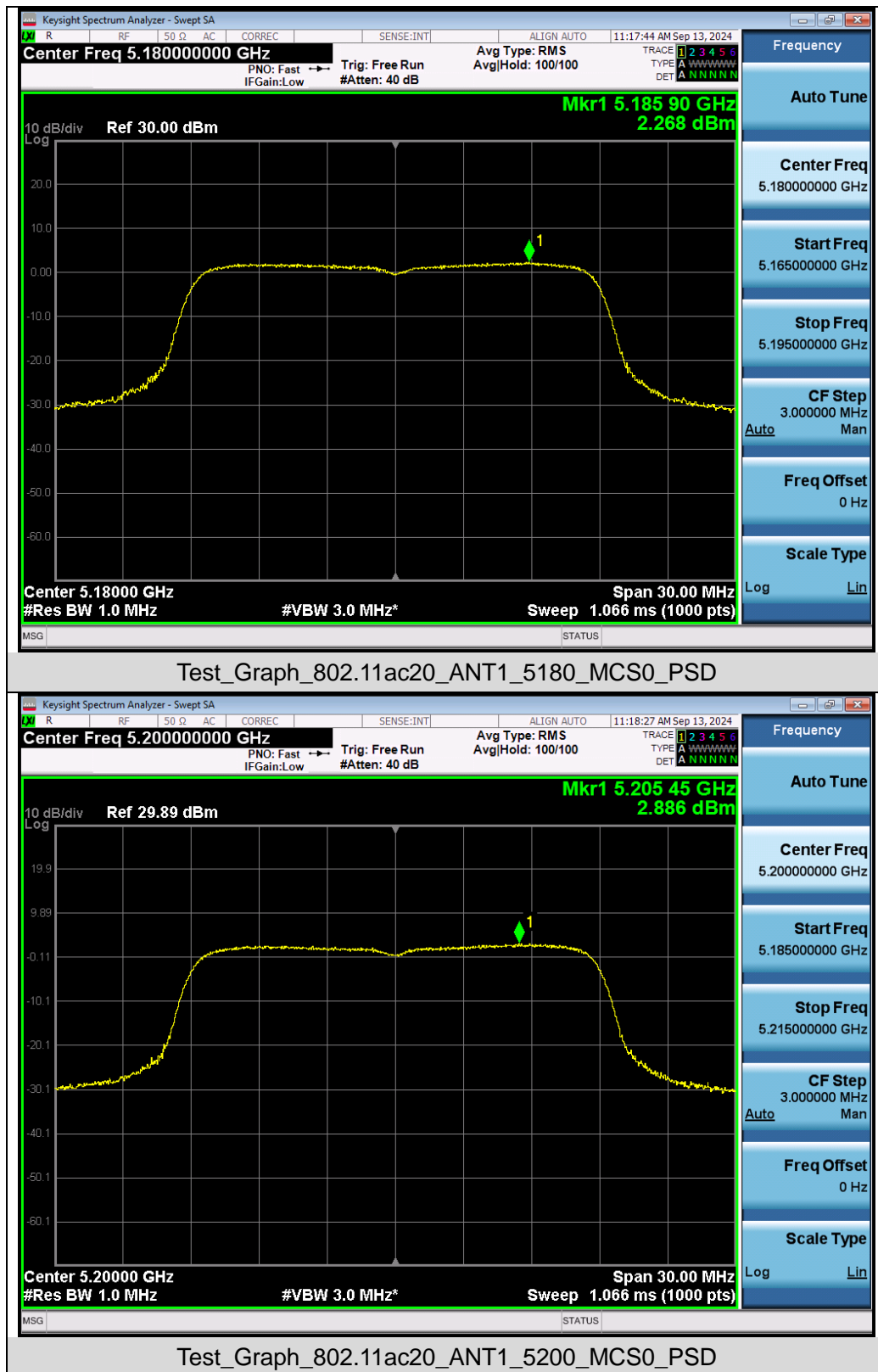
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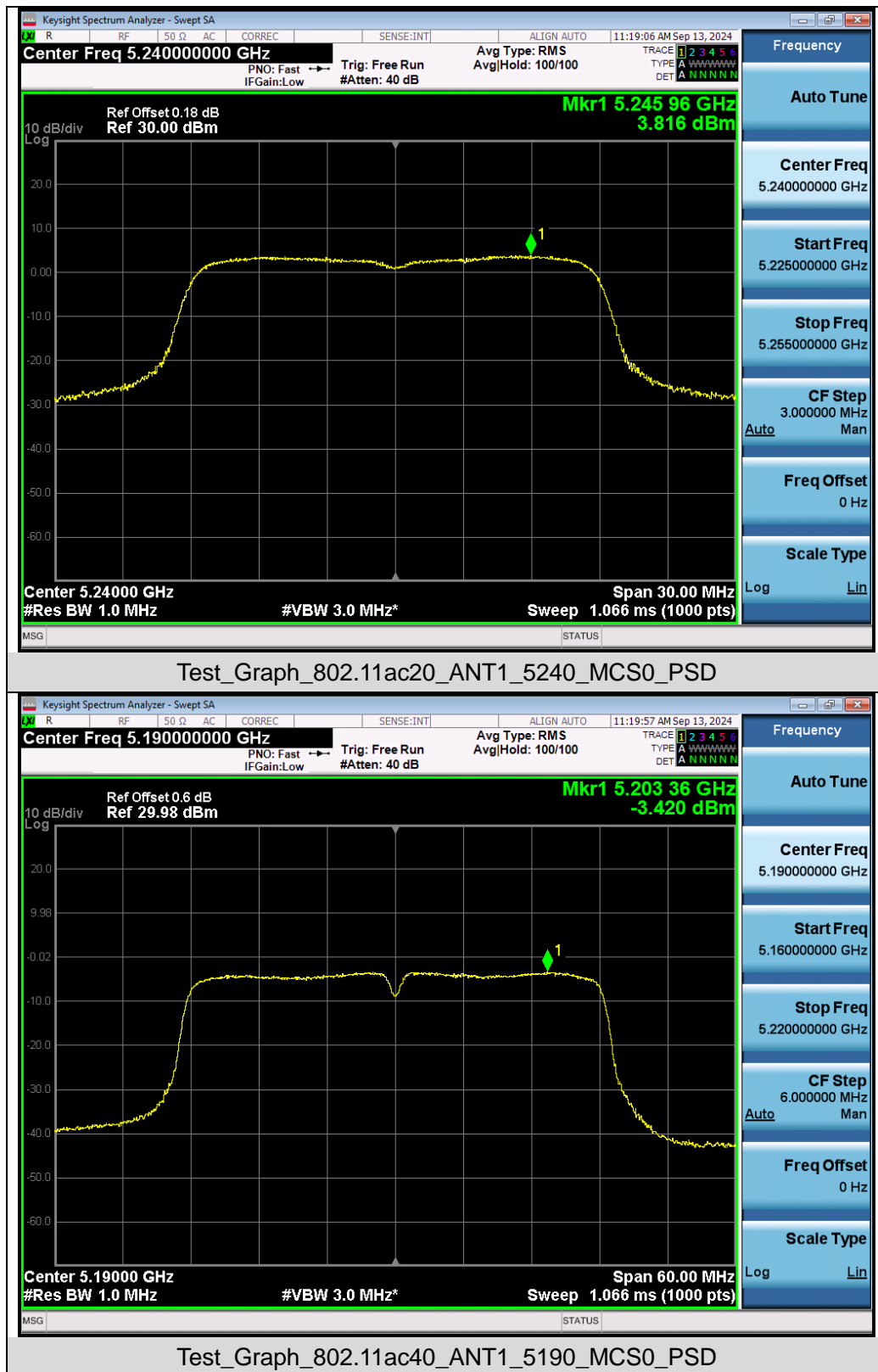
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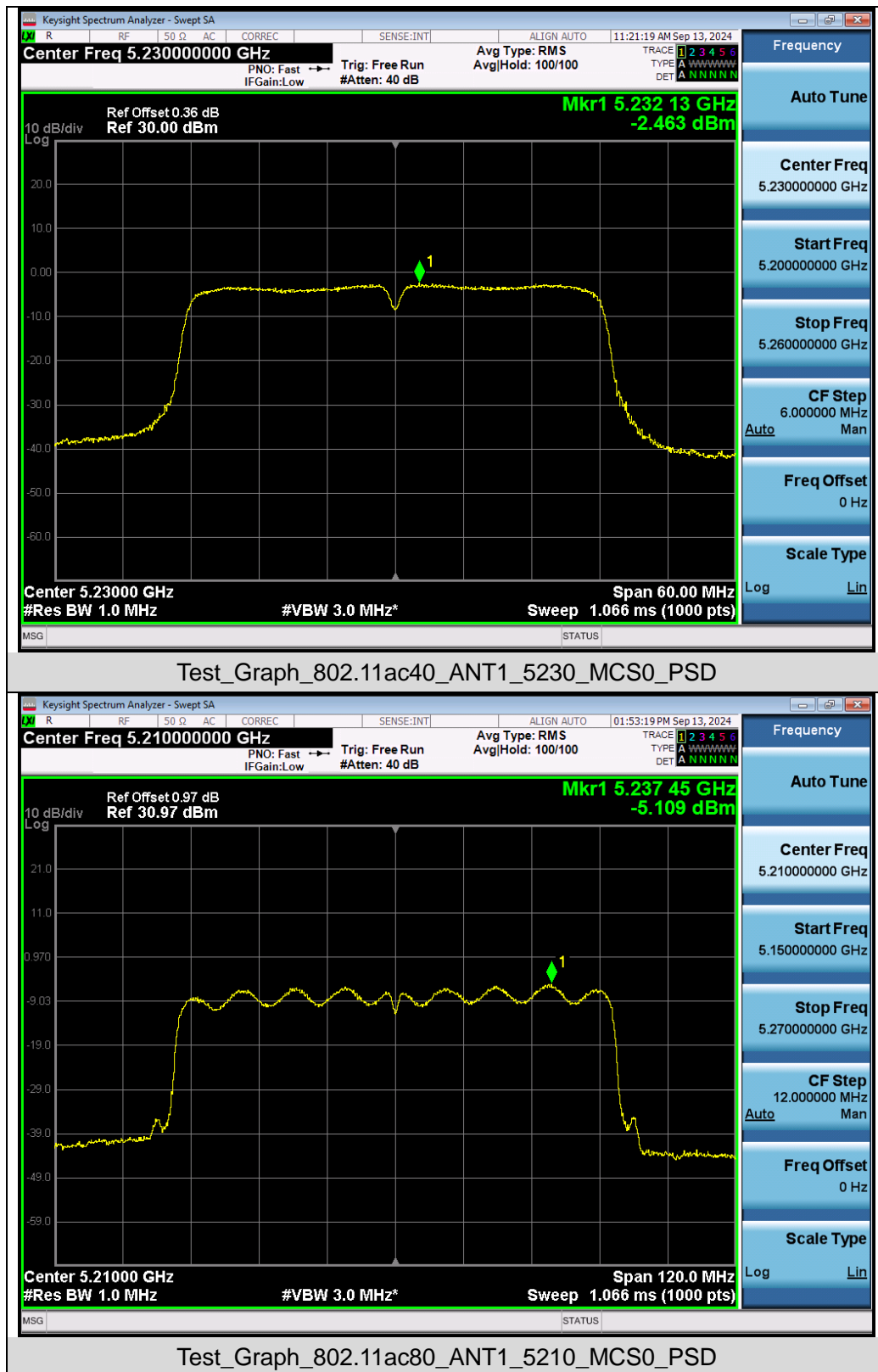
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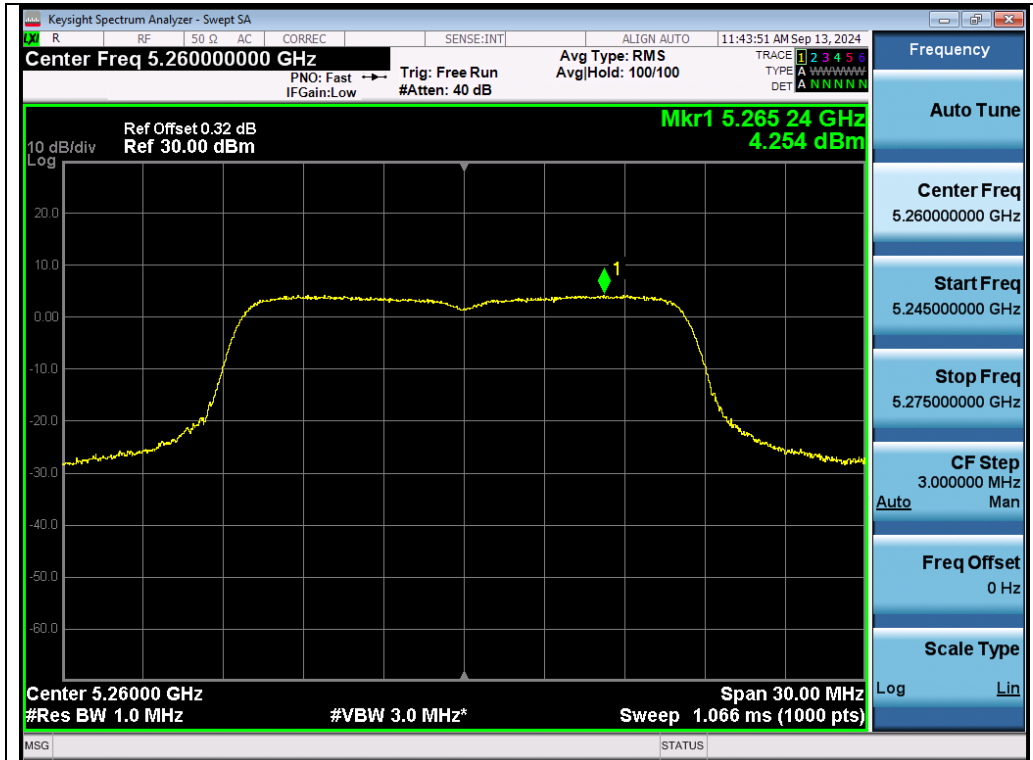
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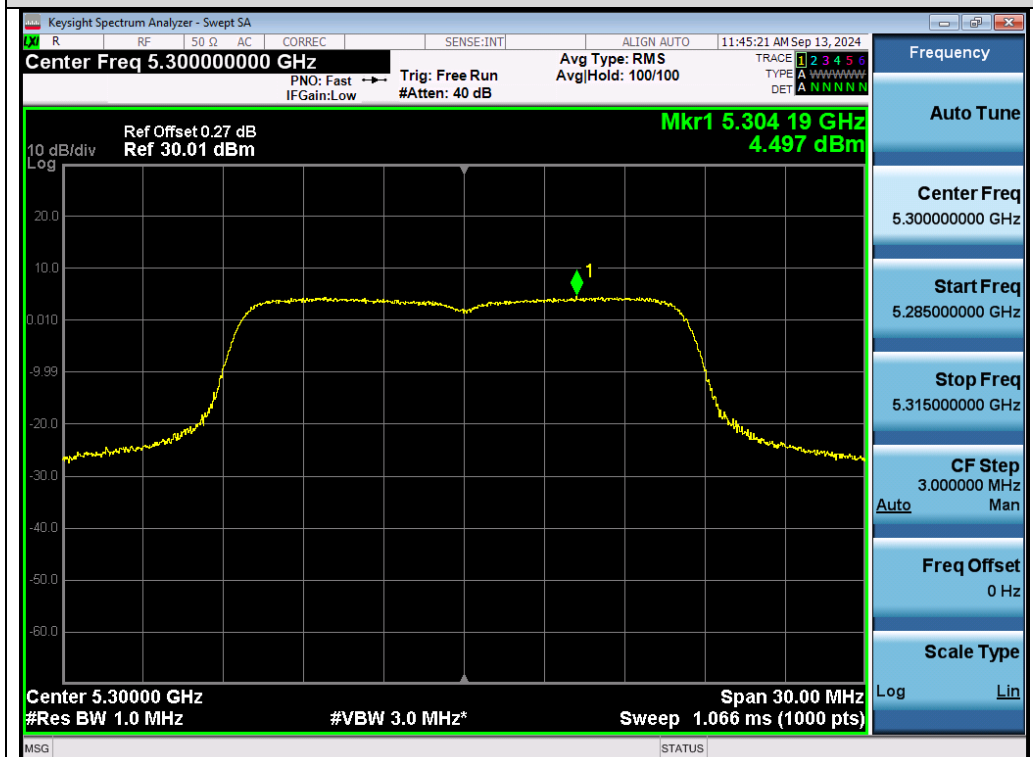


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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

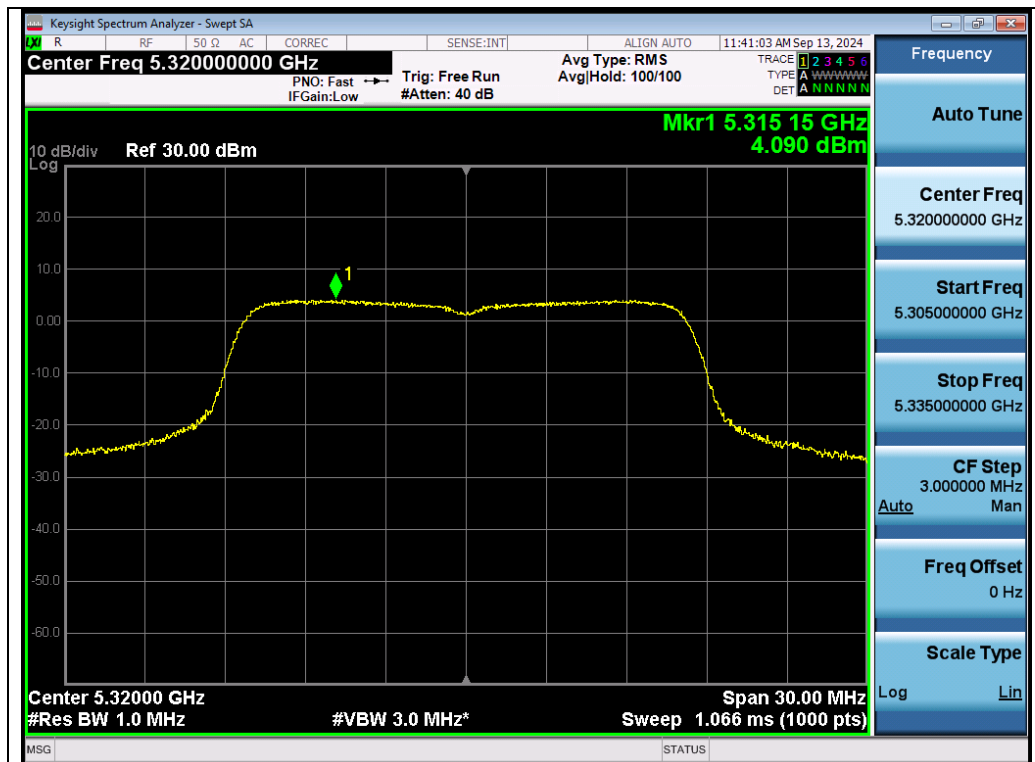


Test_Graph_802.11a_ANT1_5260_6Mbps_PSD

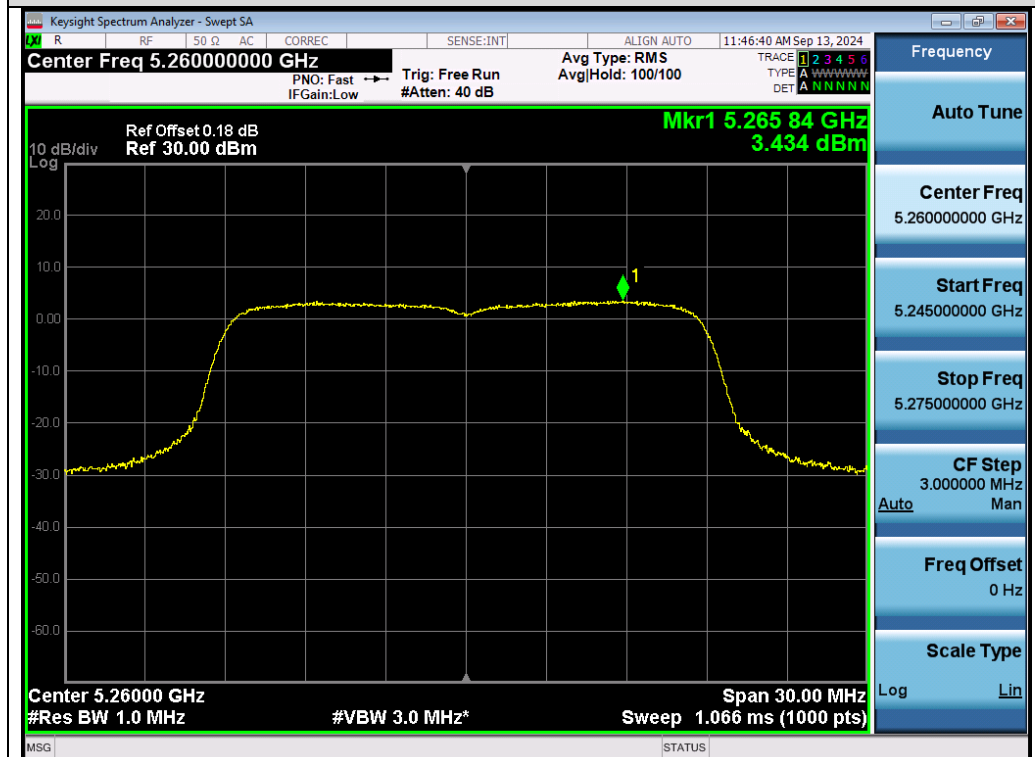


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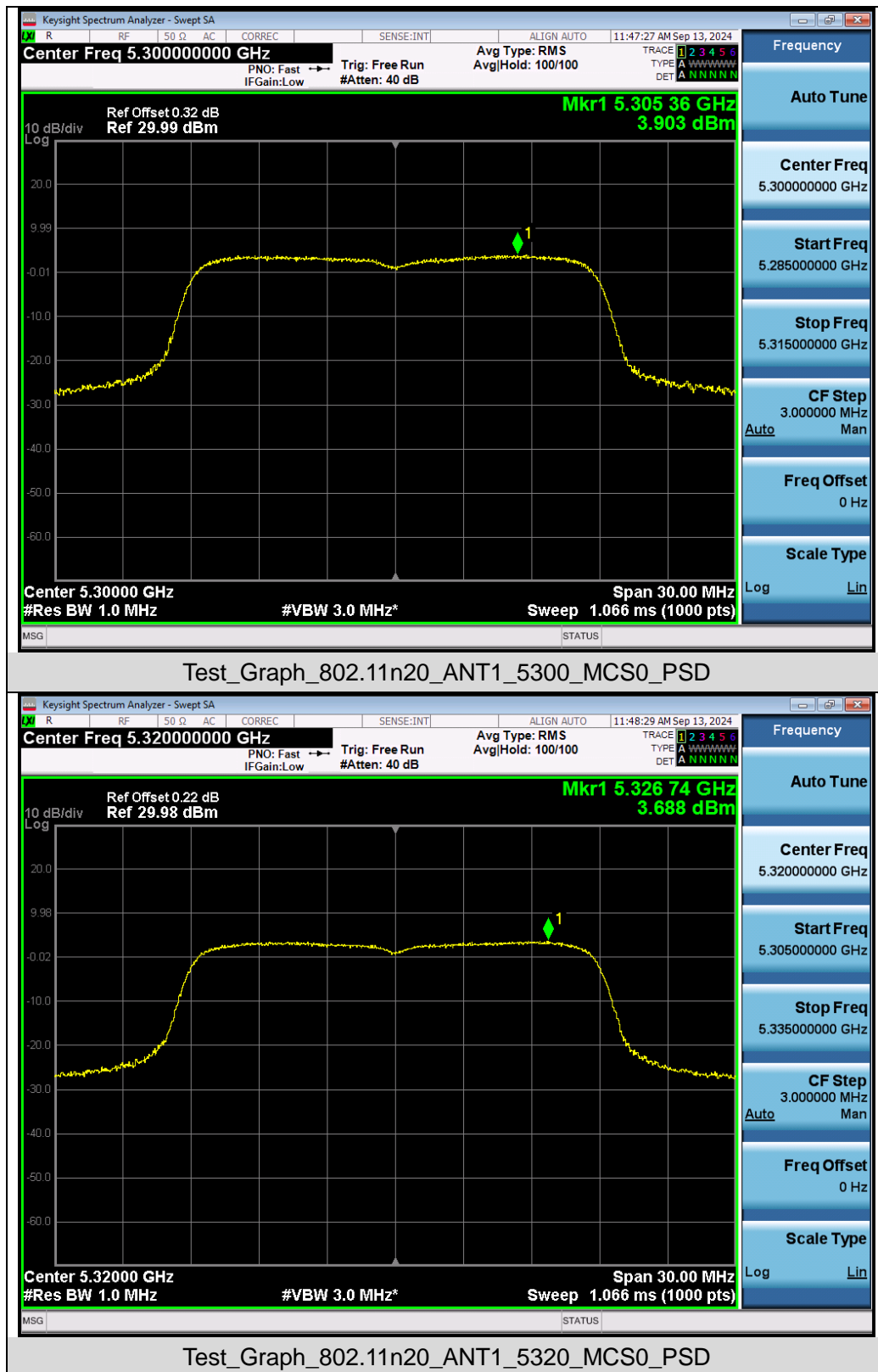
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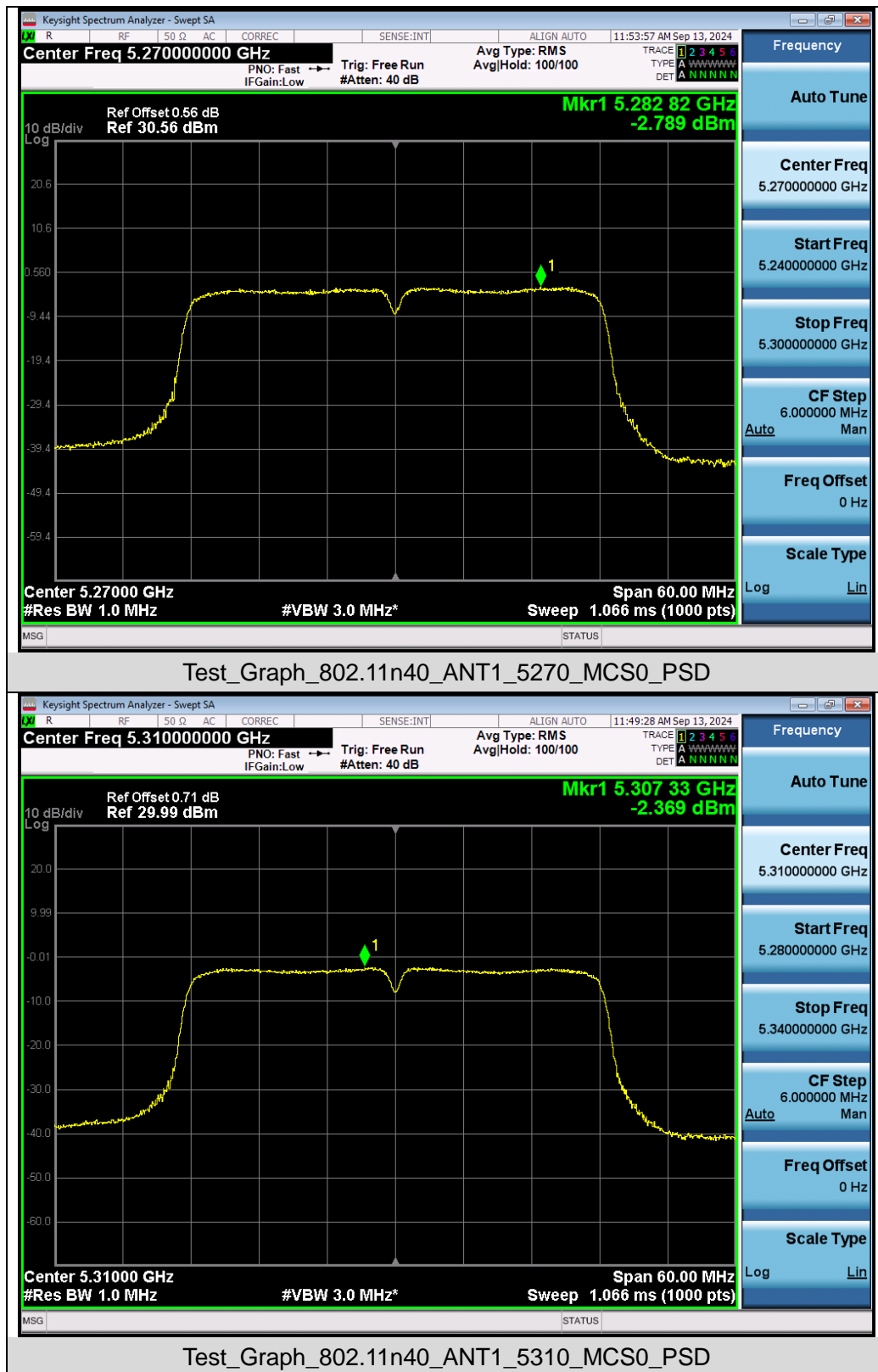
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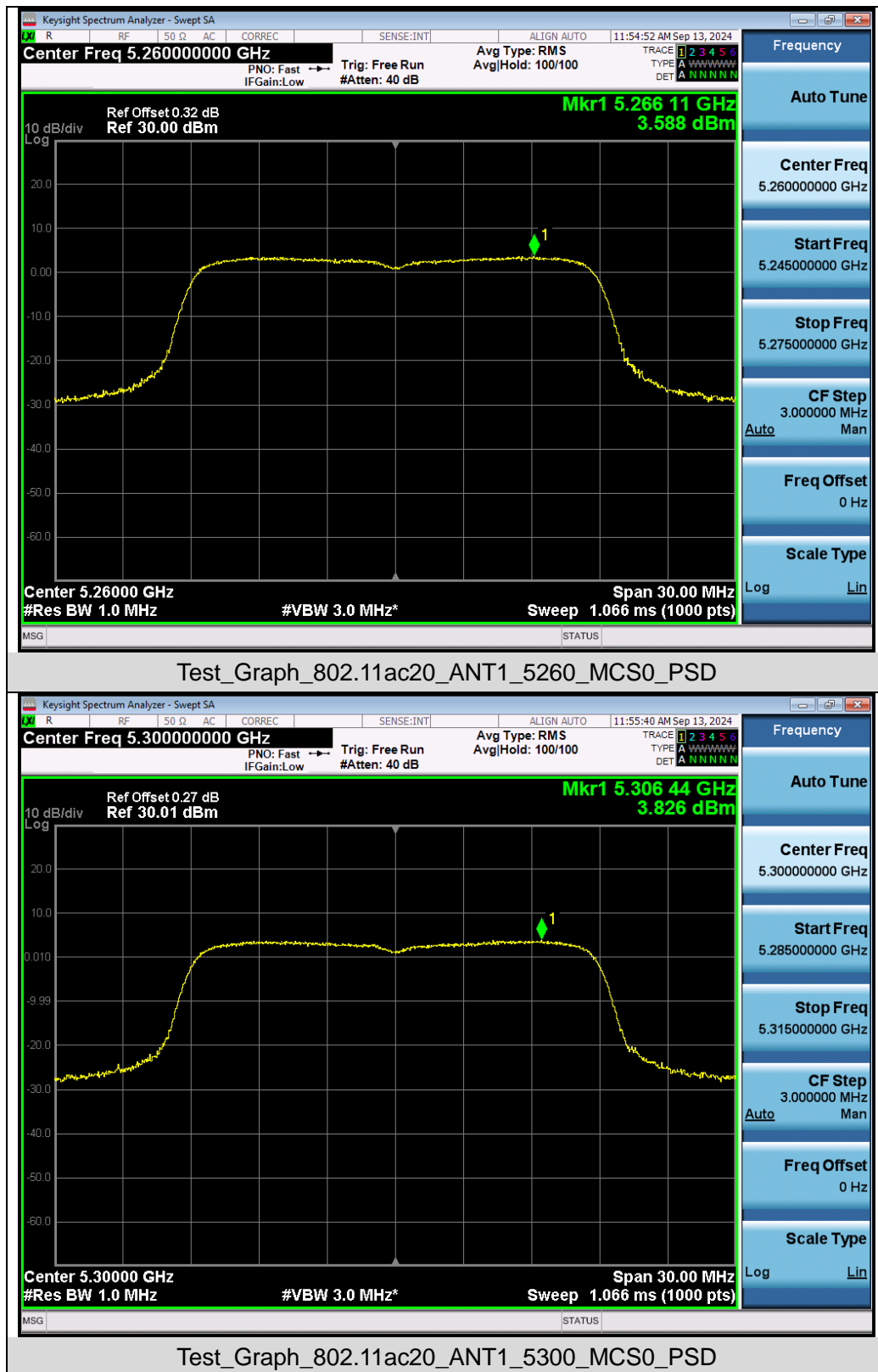


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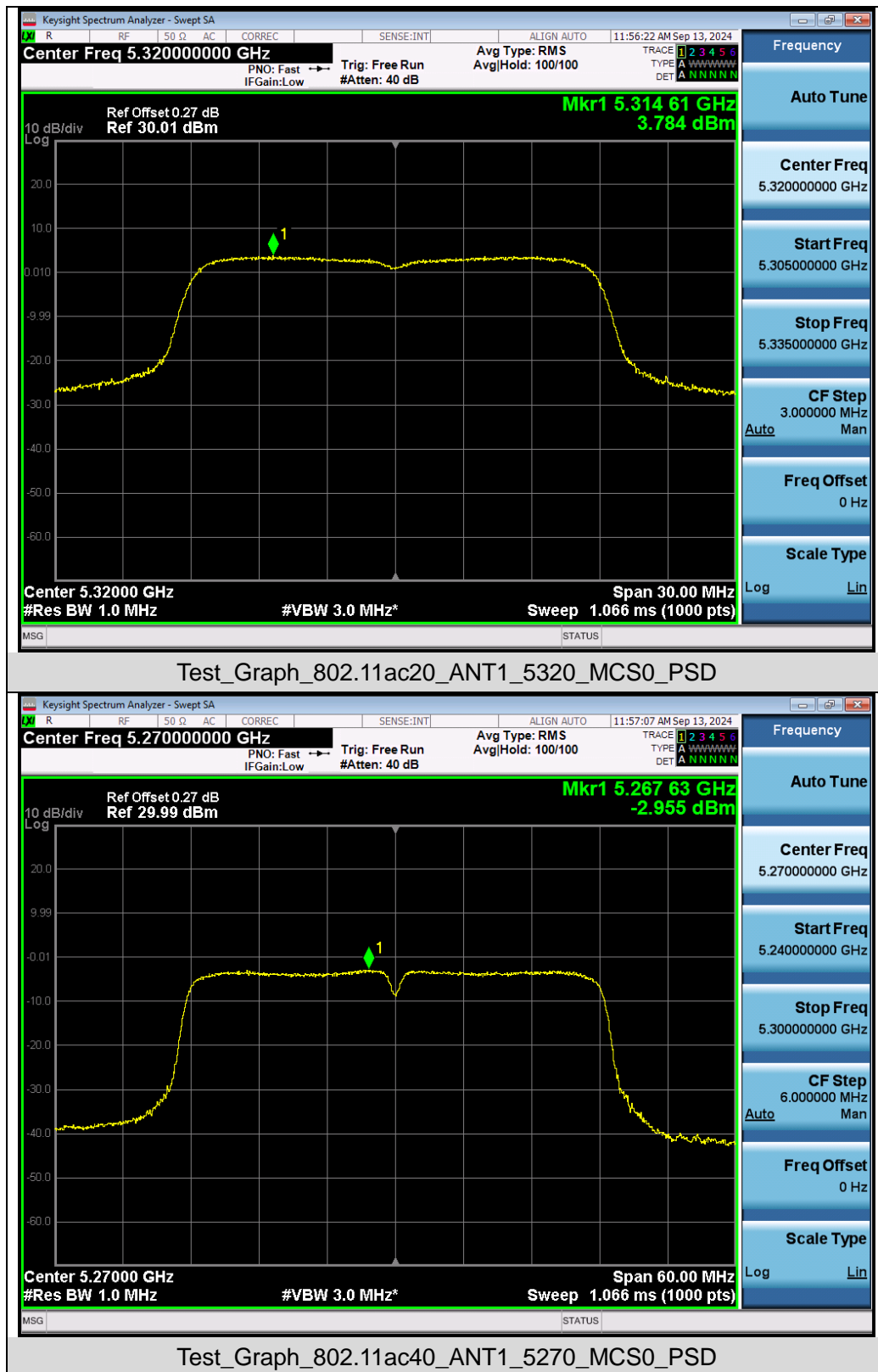
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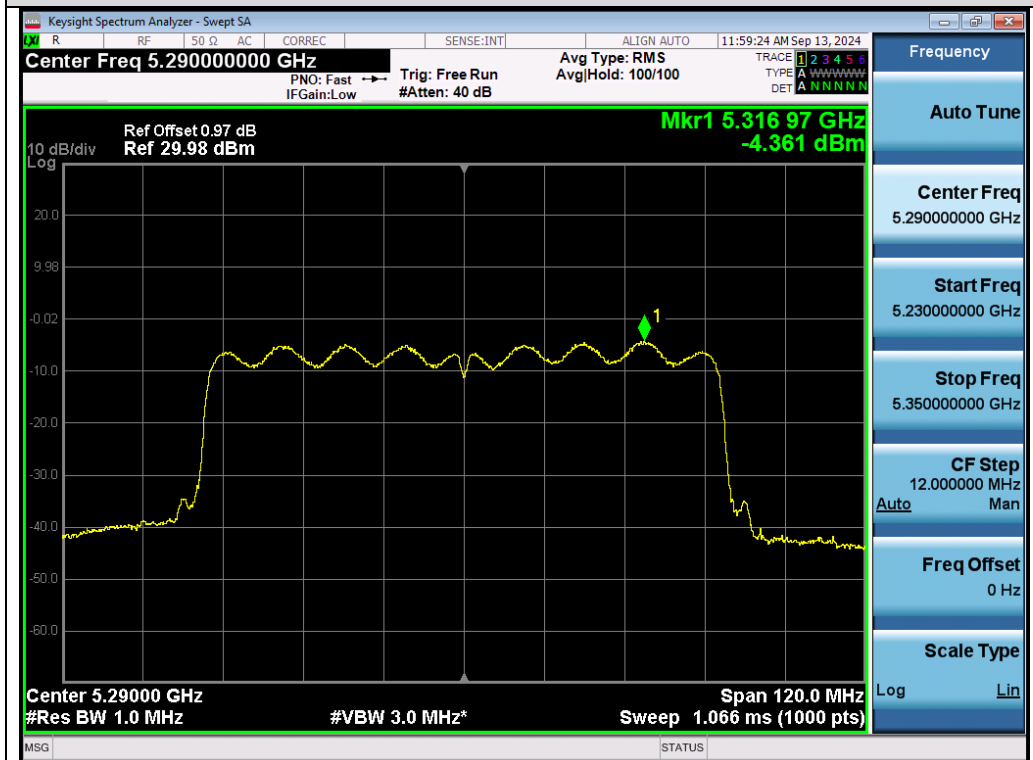
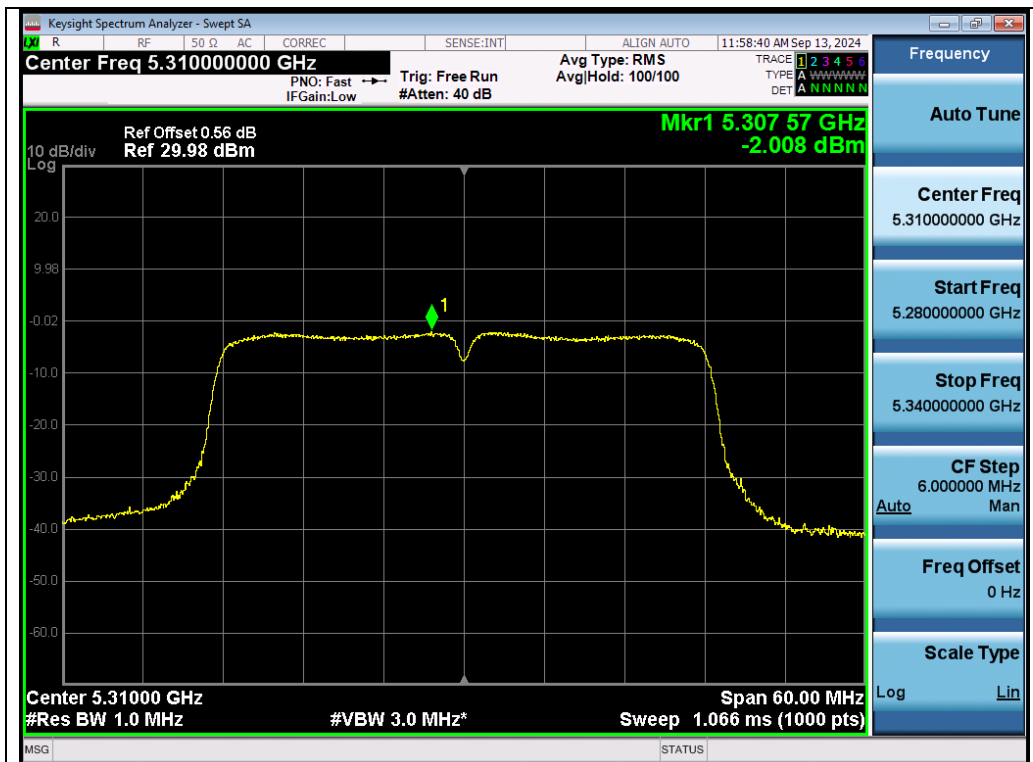
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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

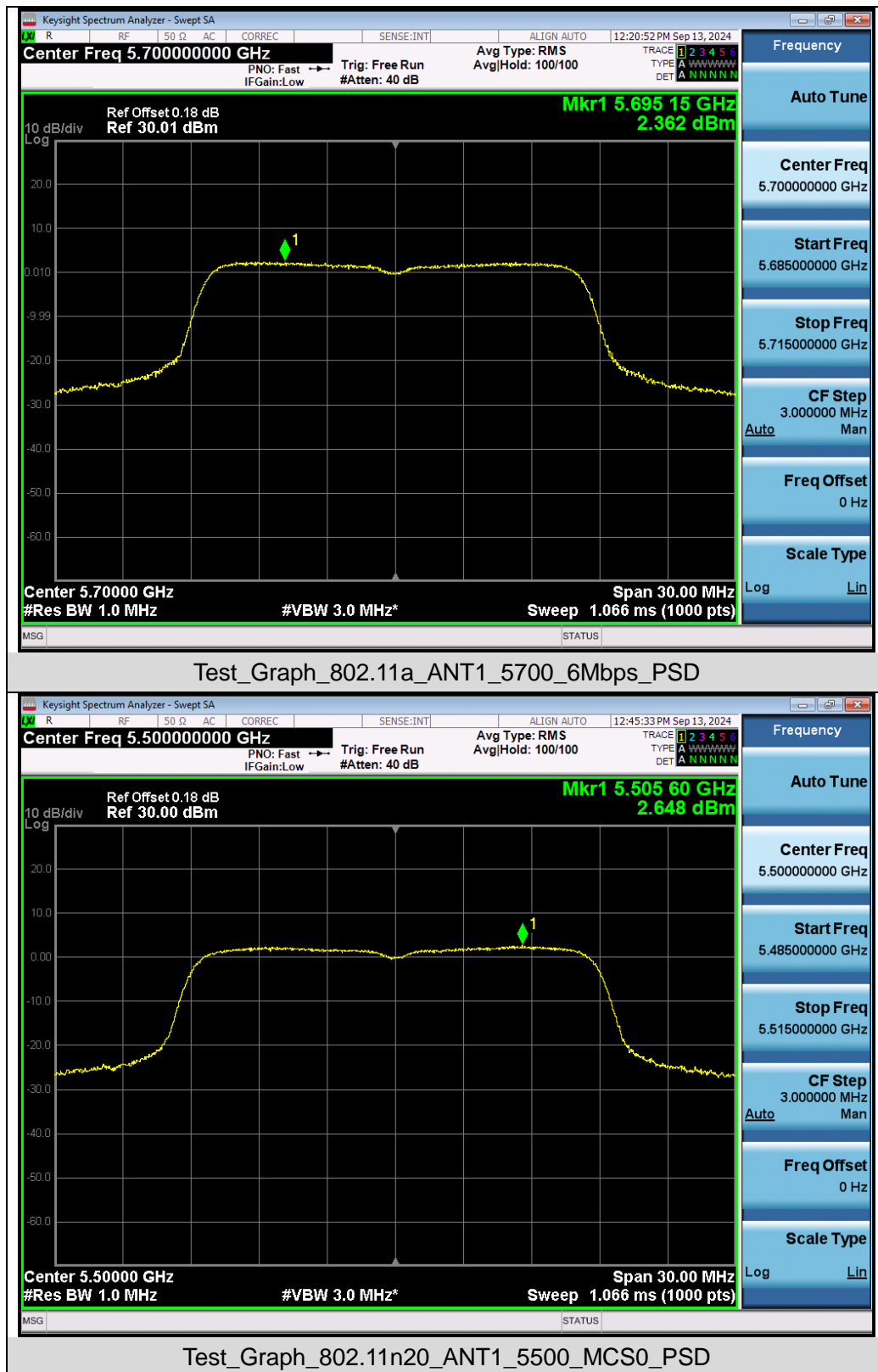


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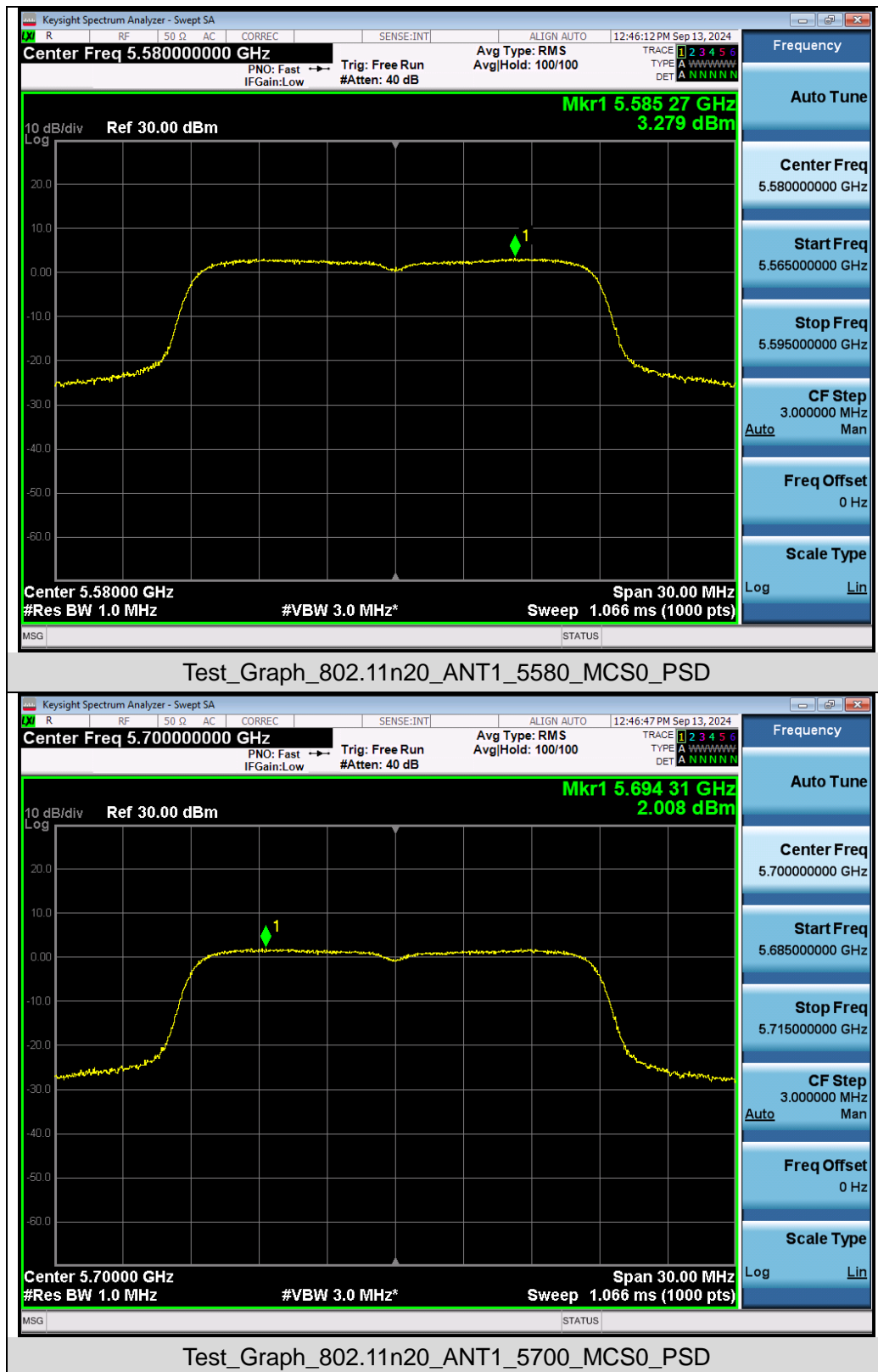
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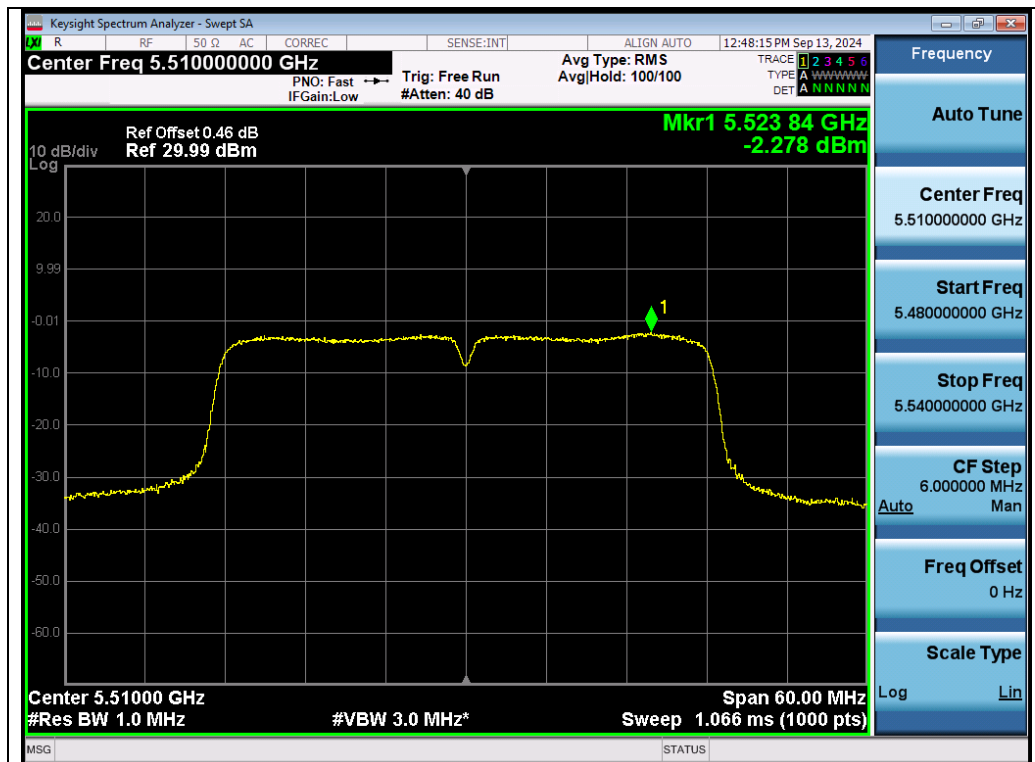


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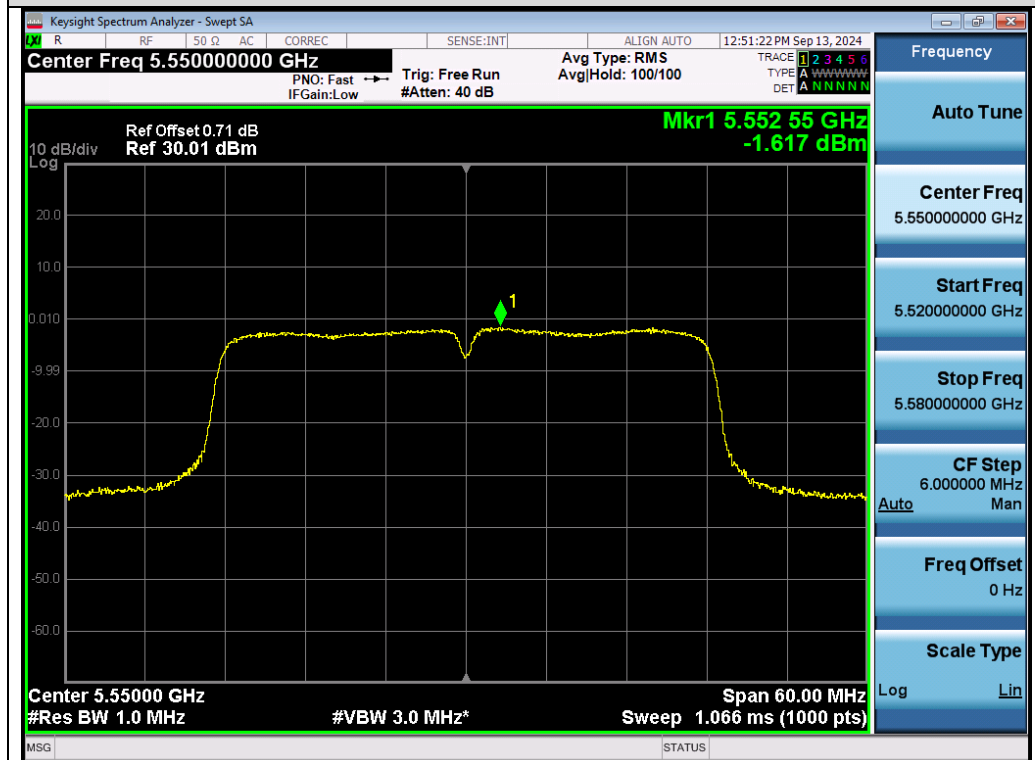
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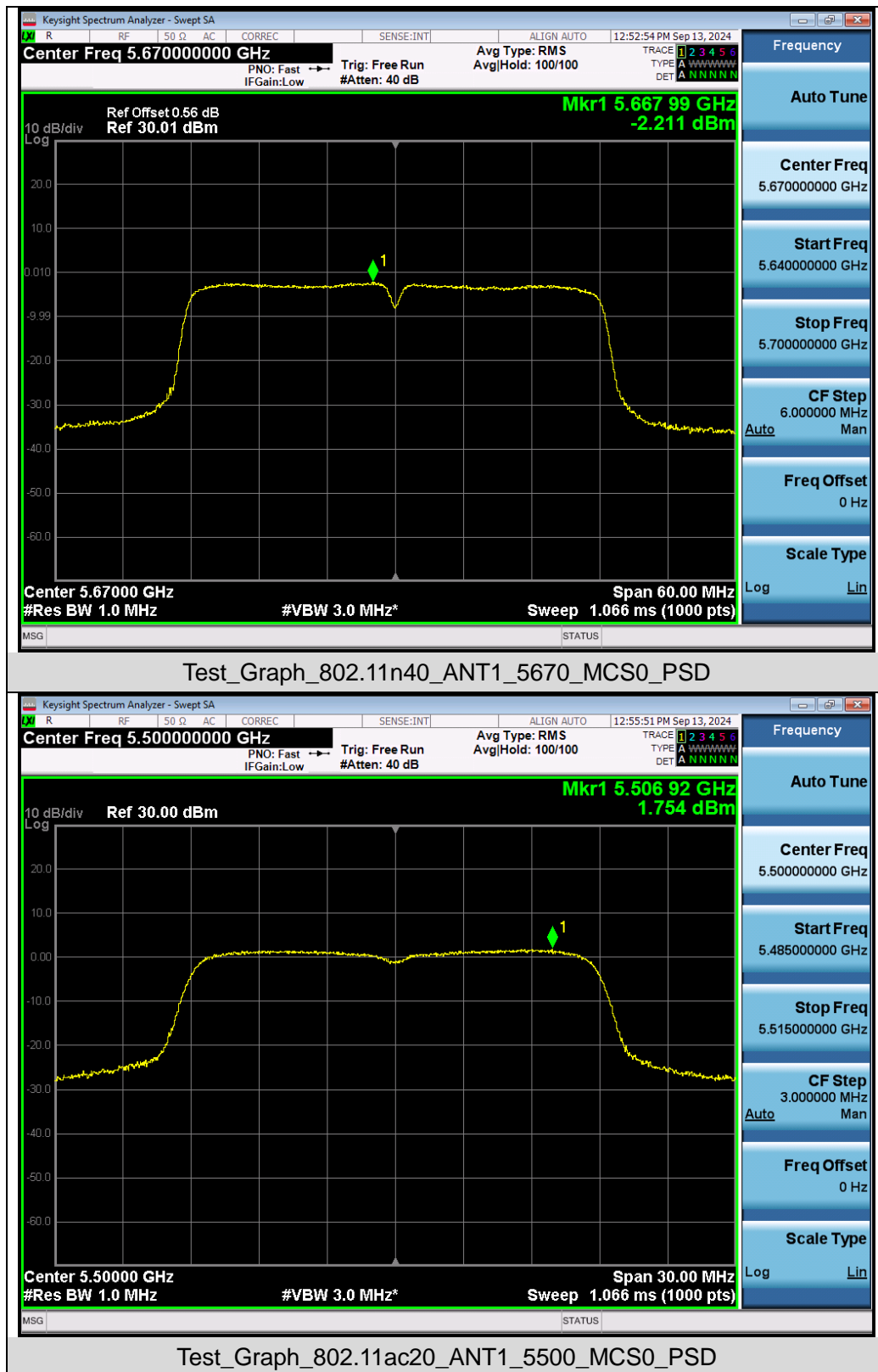
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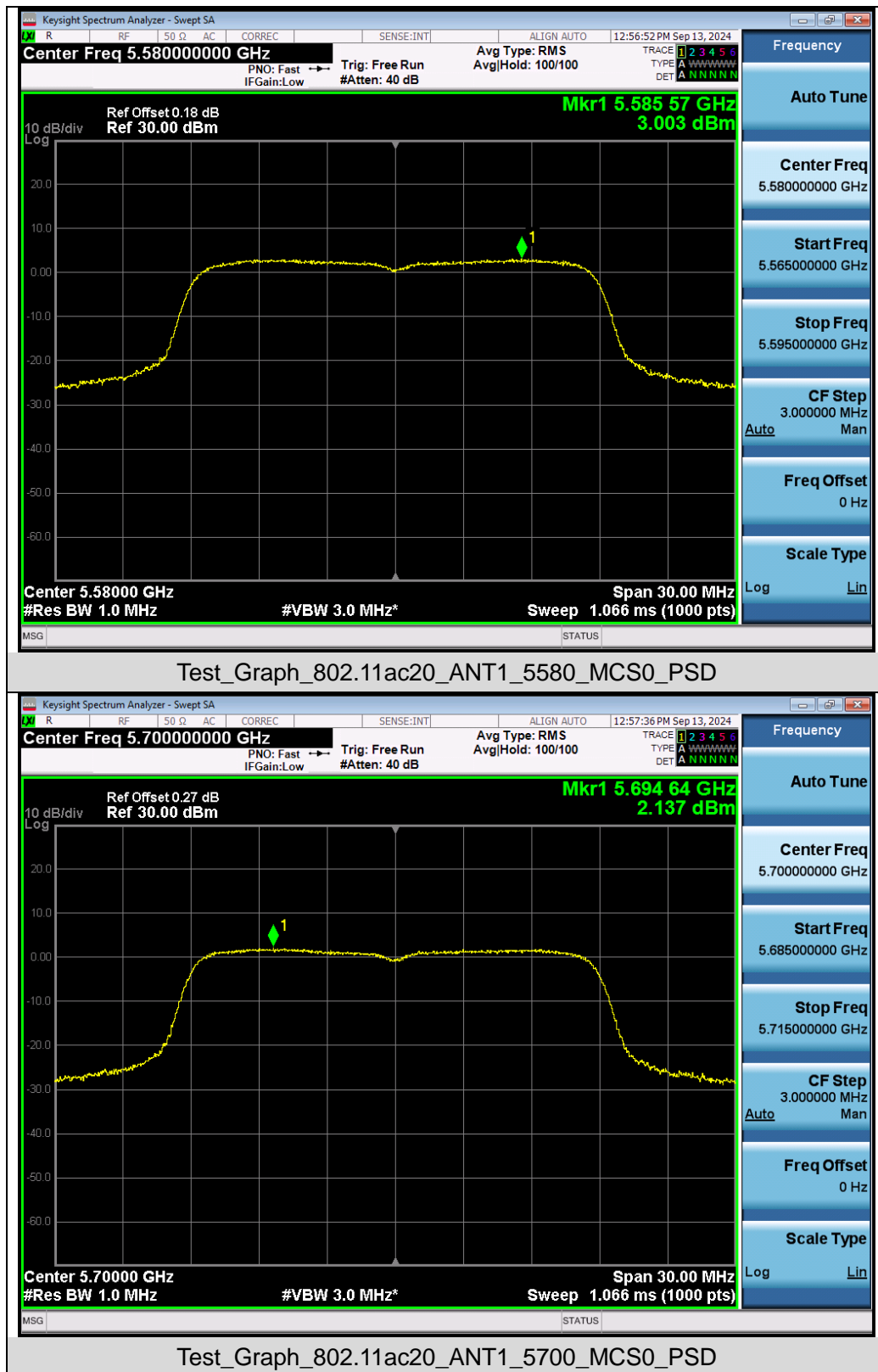
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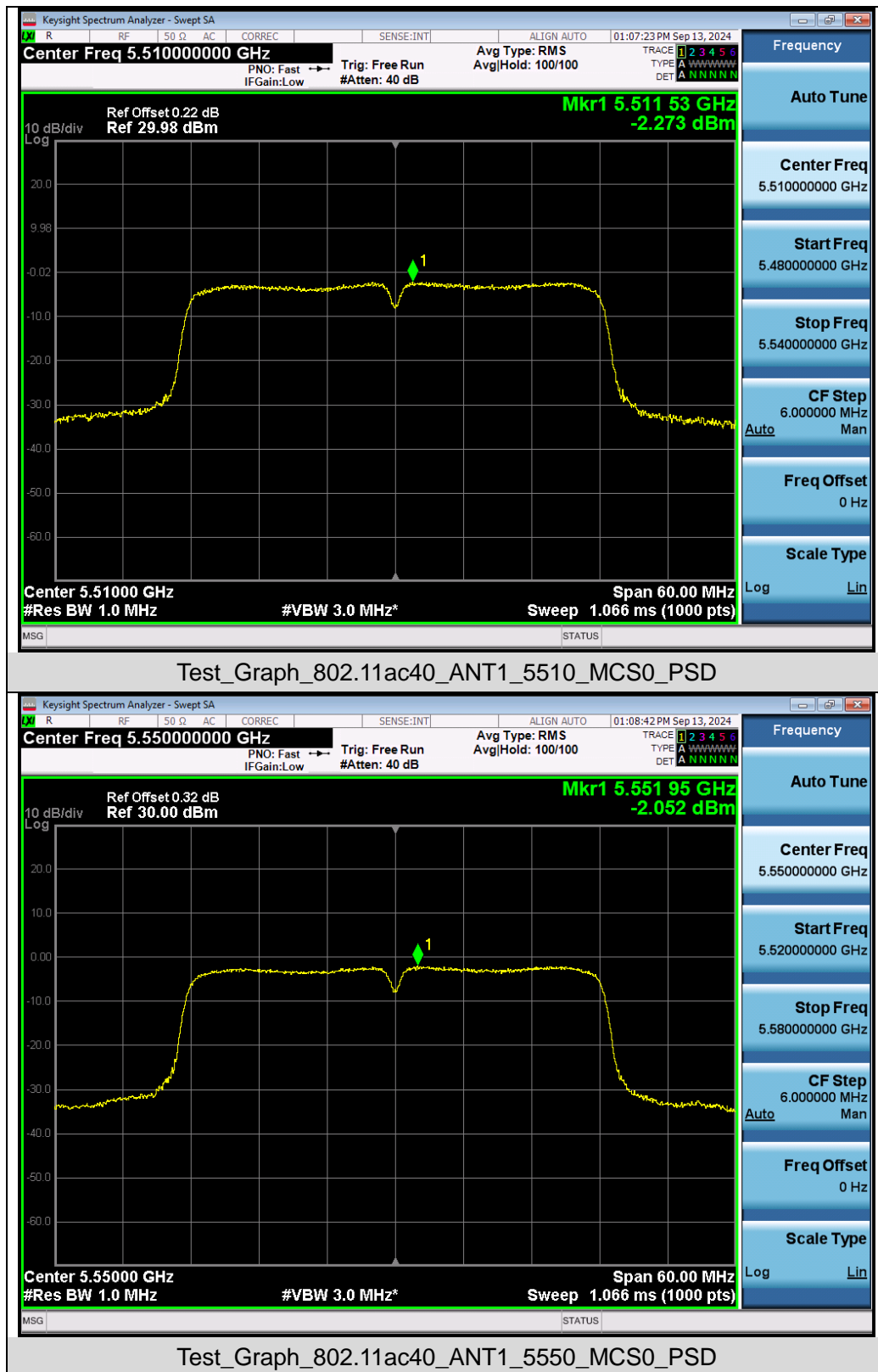
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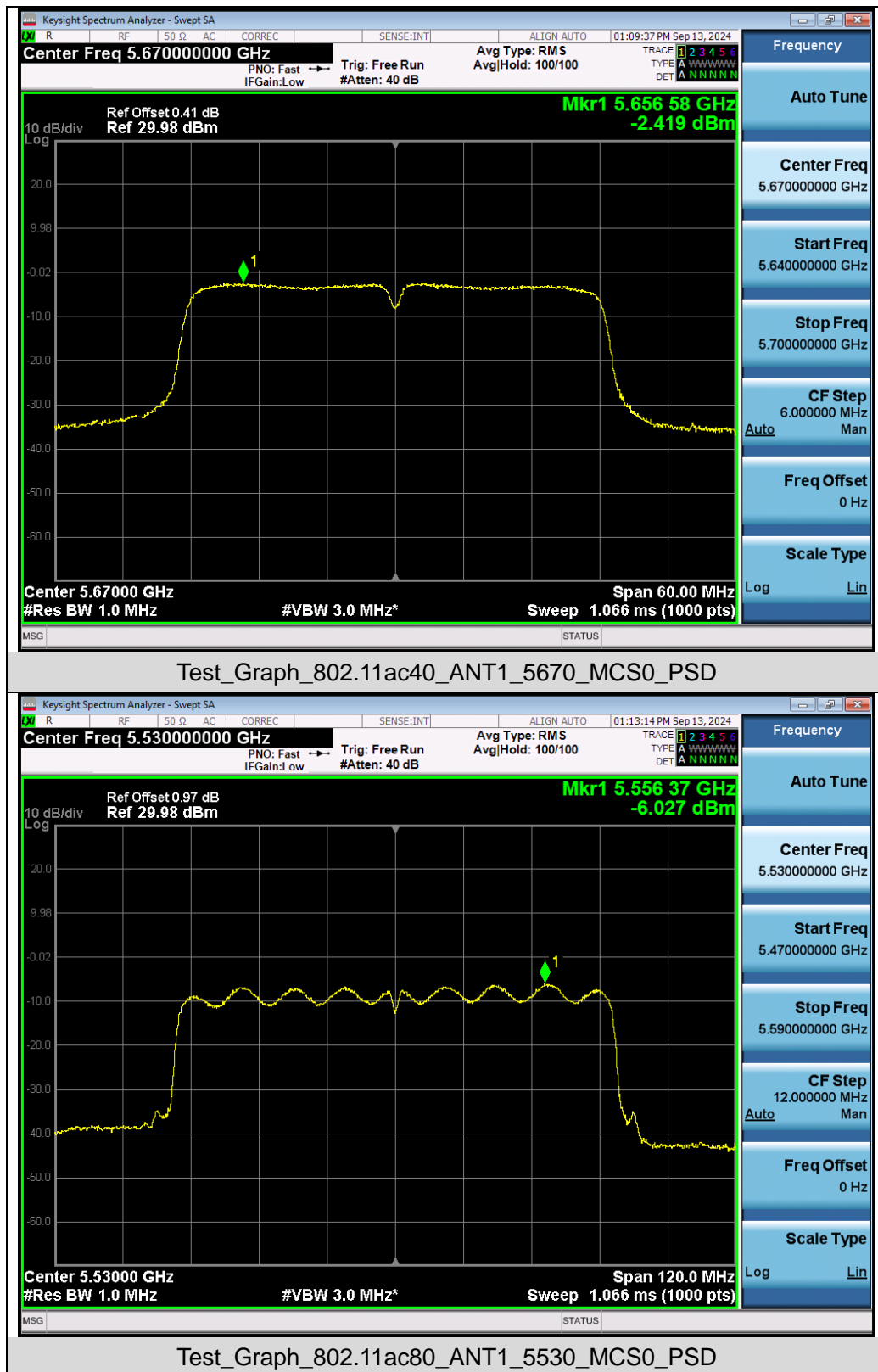
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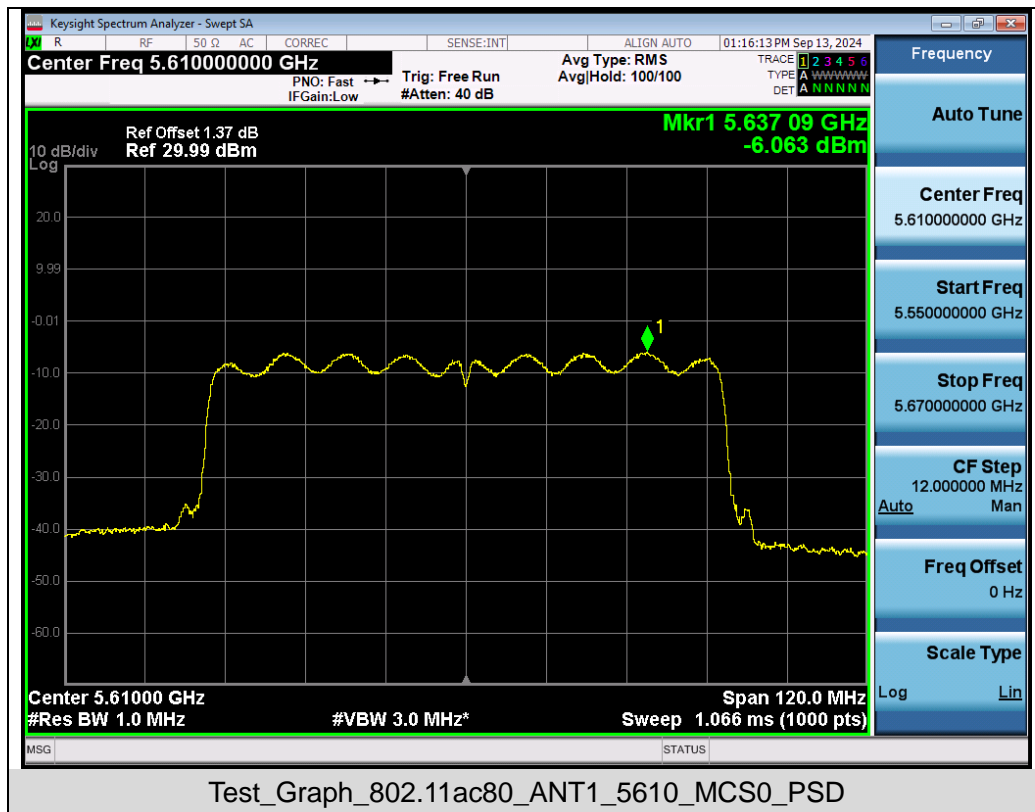


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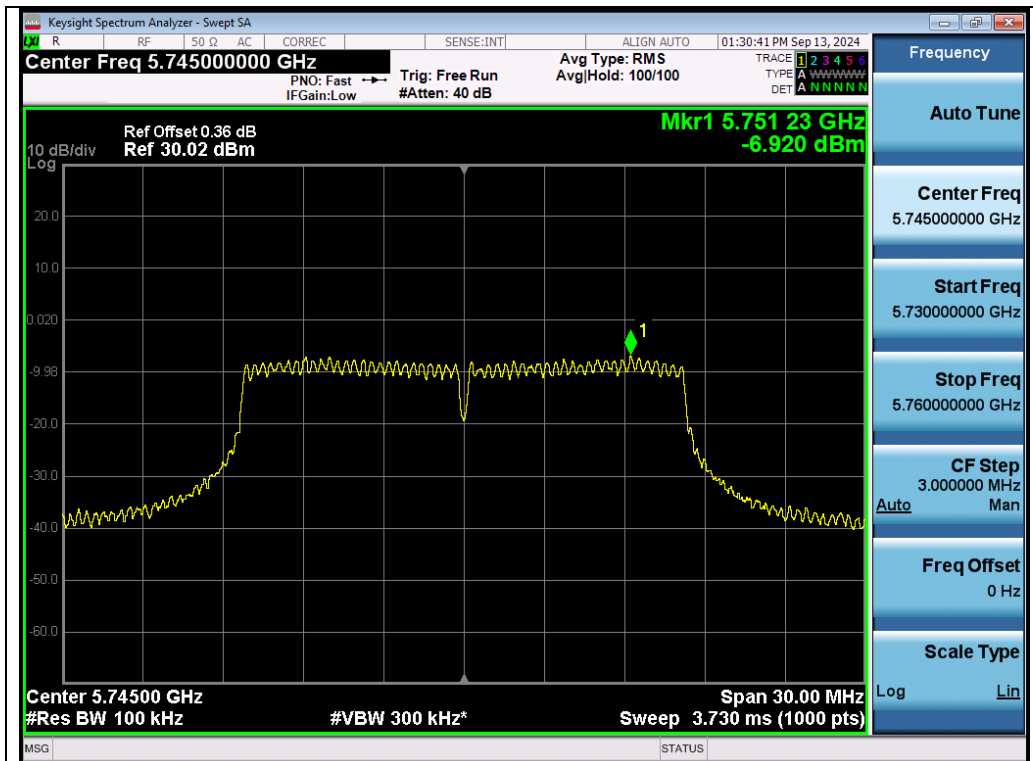
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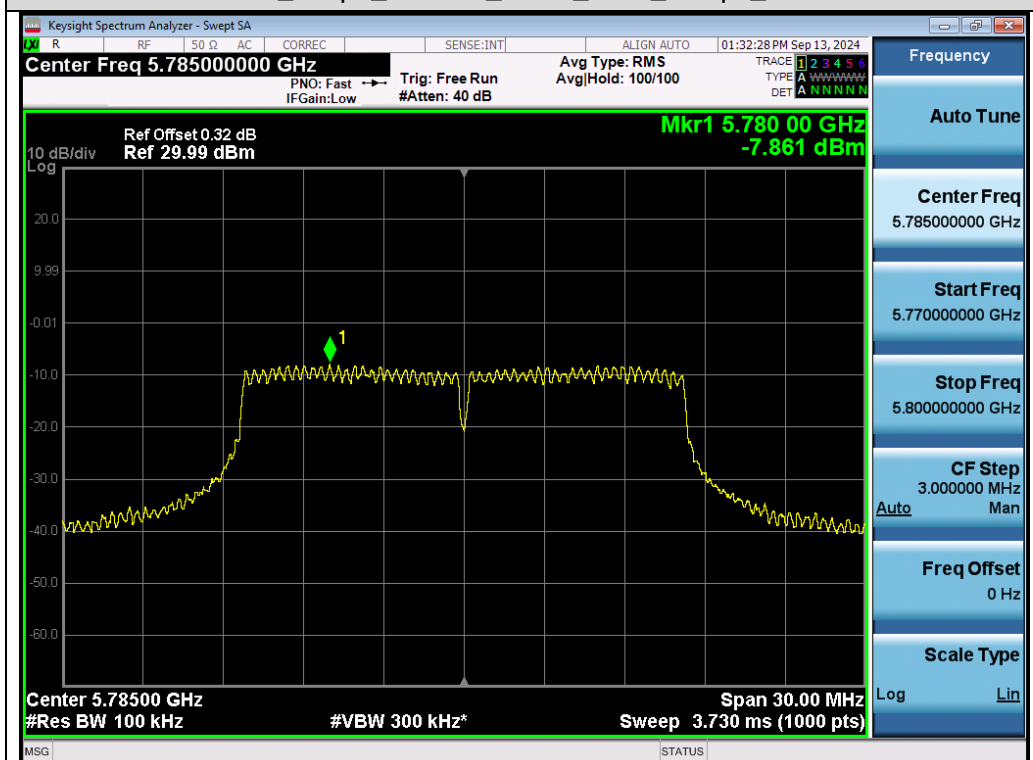
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

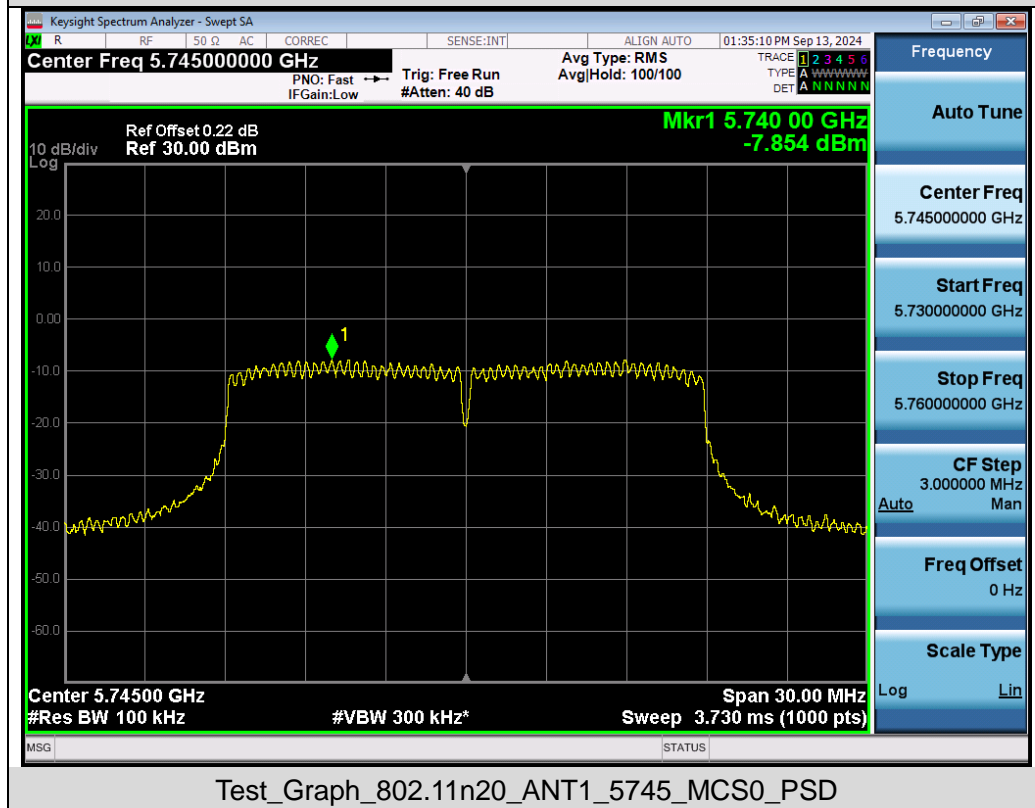
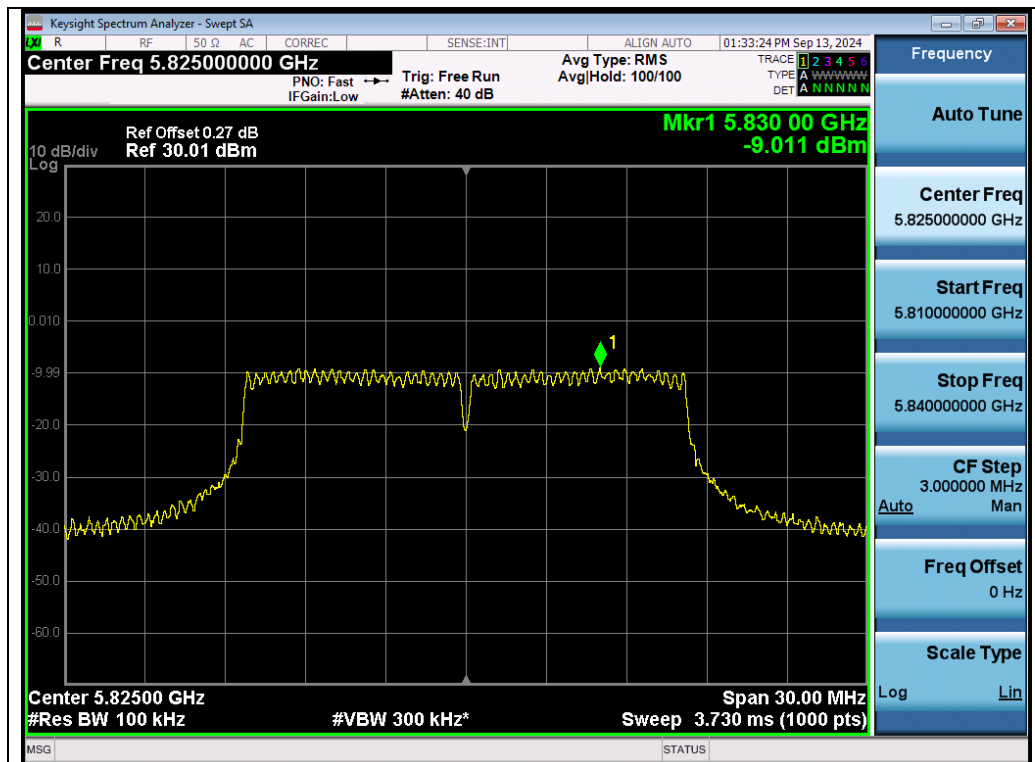


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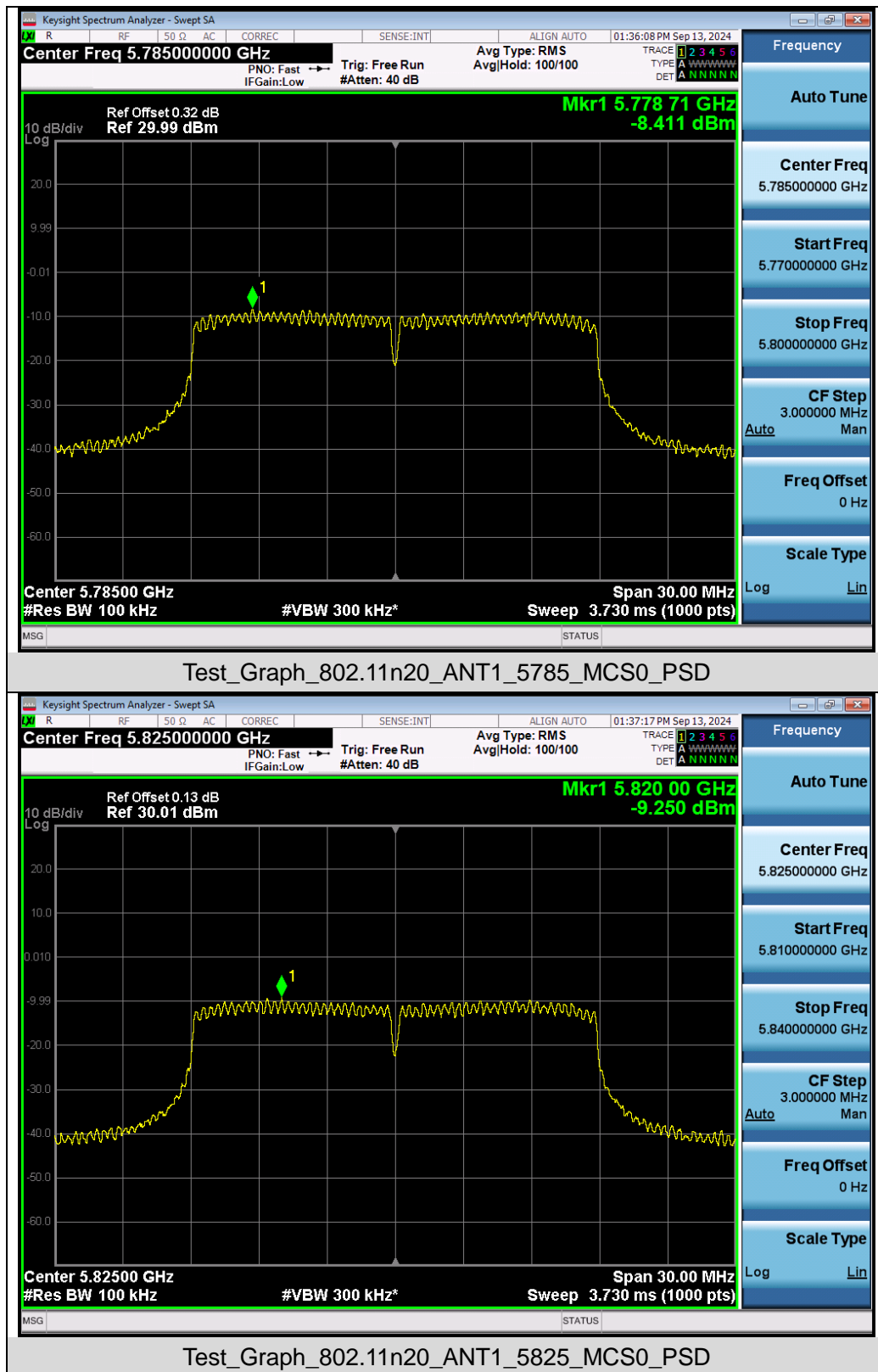
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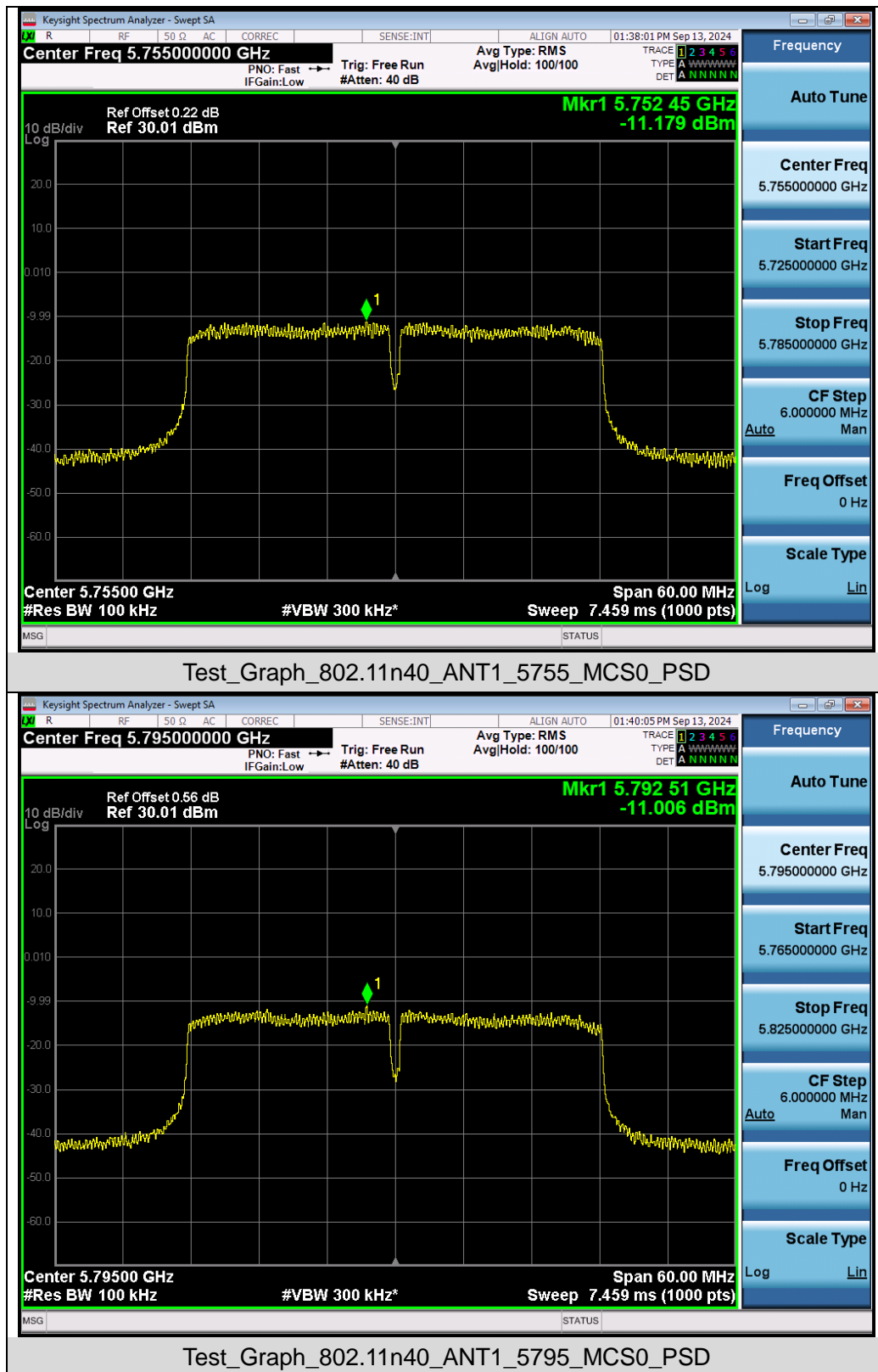
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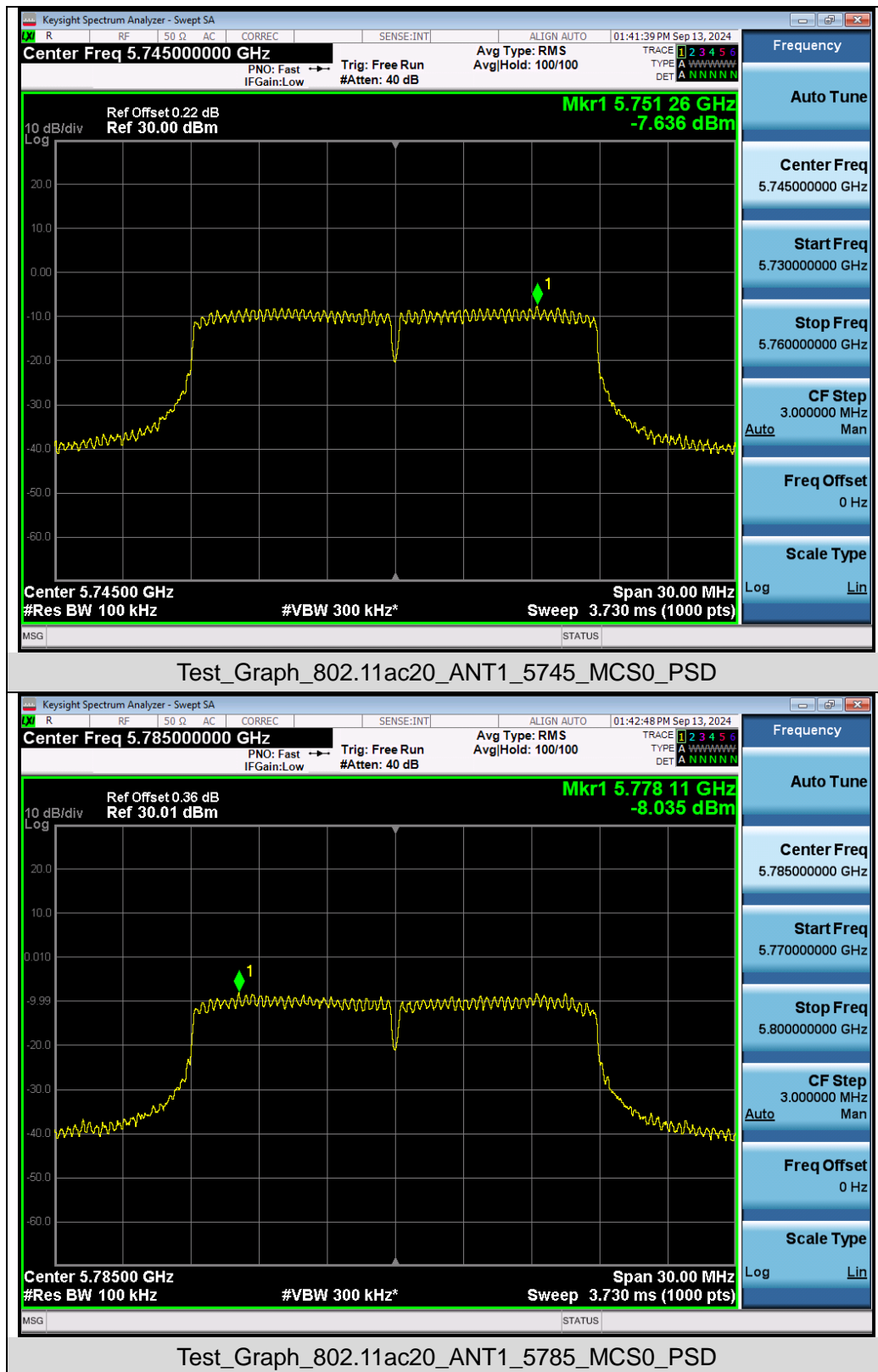


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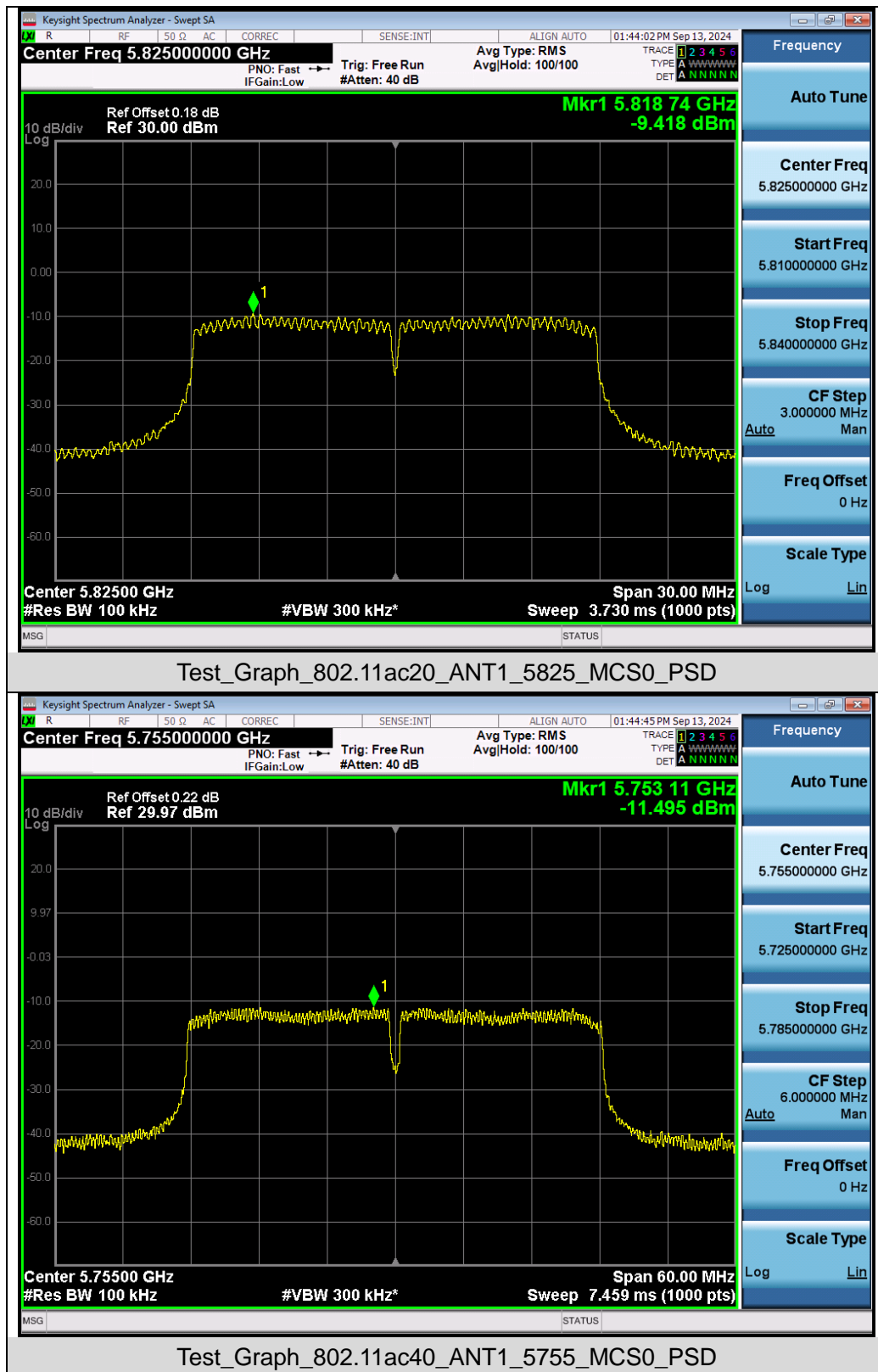
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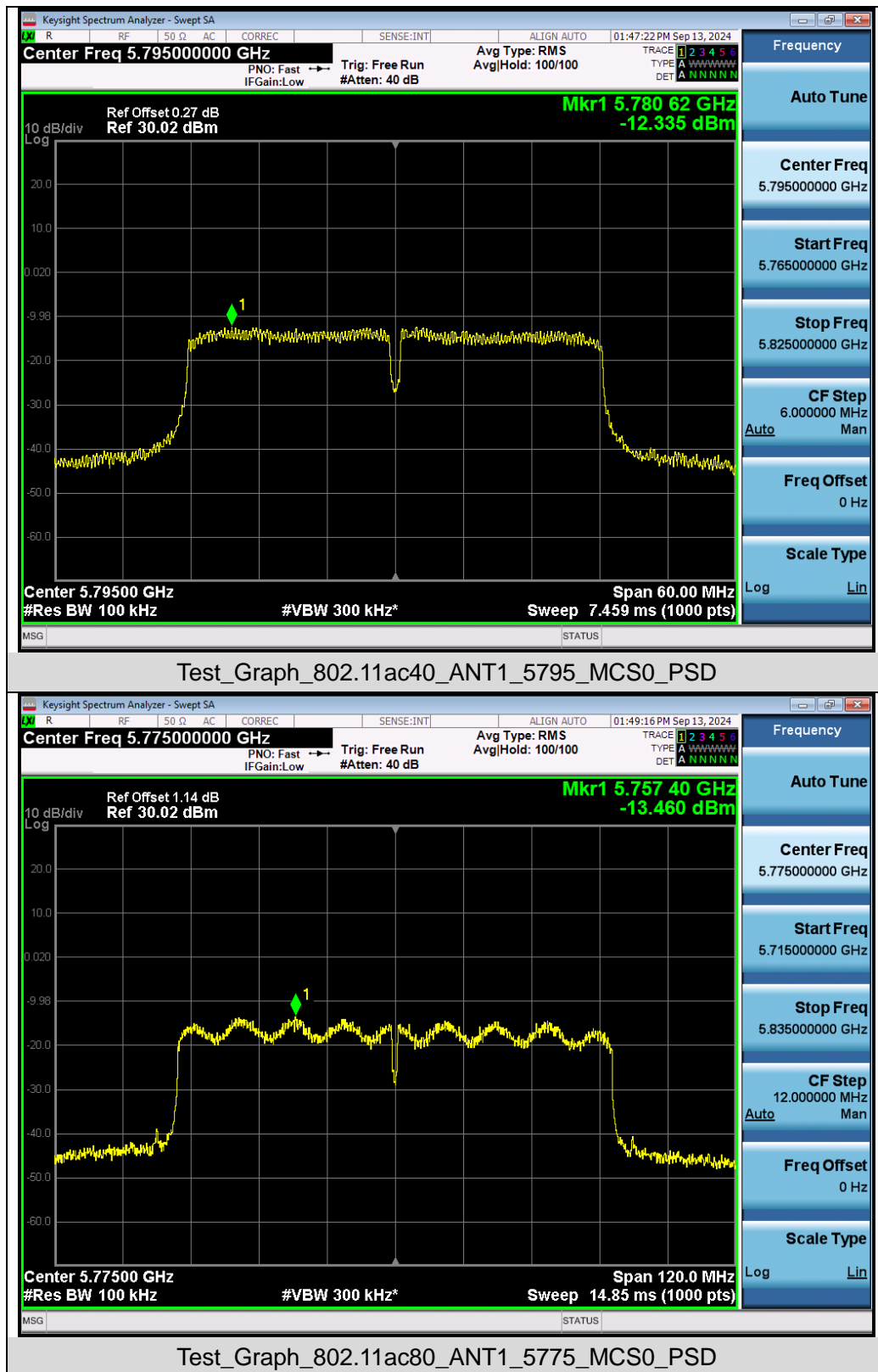


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10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

Restricted bands	Applicable to	Limit	
	789033 D02 General UNII Test Procedures New Rules v02r01	Field strength at 3m (dBuV/m)	
		PK: 74	AV: 54
Out of the restricted bands	Applicable to	EIRP Limit (dBm/MHz)	Equivalent field Strength at 3m (dBuV/m)
	FCC 15.407(b)(1)	PK: -37 (below 1GHz) PK: -27 (Above 1GHz)	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:

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

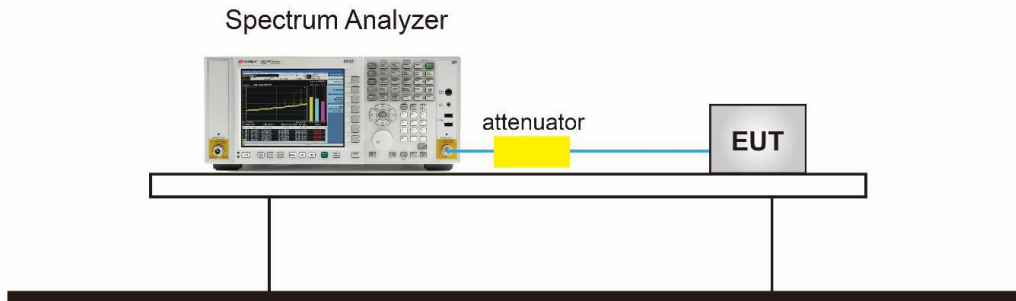
Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below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

10.2 Measurement Procedure

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the 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.
3. RBW = 100kHz; VBW= 300kHz; Sweep = auto; Detector function = Peak. (Test frequency below 1GHz)
4. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = Peak. (Test frequency Above 1GHz)
5. Set SPA Trace 1 Max hold, then View.
6. Antenna gain and path loss have been compensated to the Correction factor.
7. Mark the maximum useless stray point and compare it with the limit value to record the result.

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10.3 Measurement Setup (Block Diagram of Configuration)

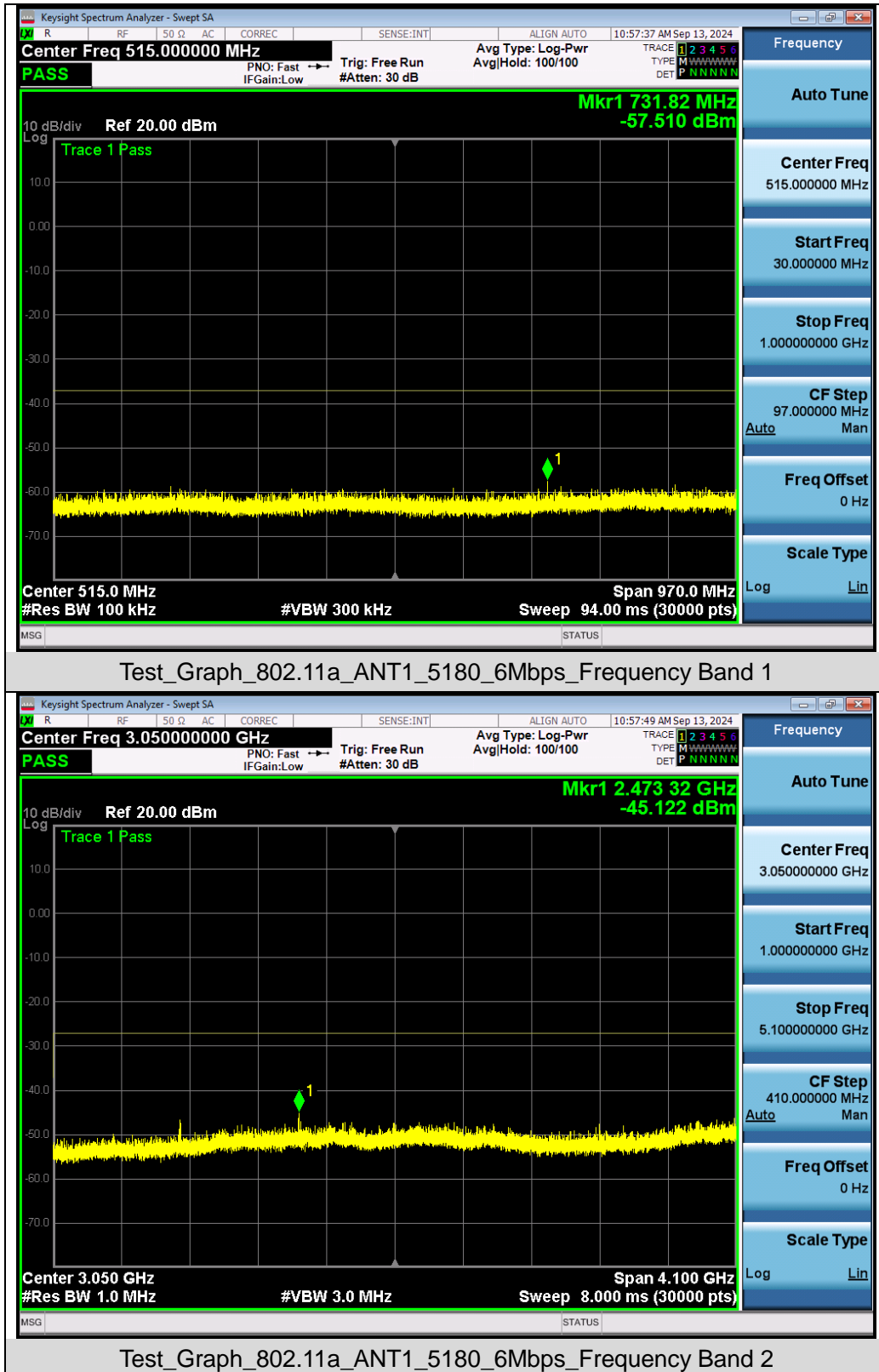


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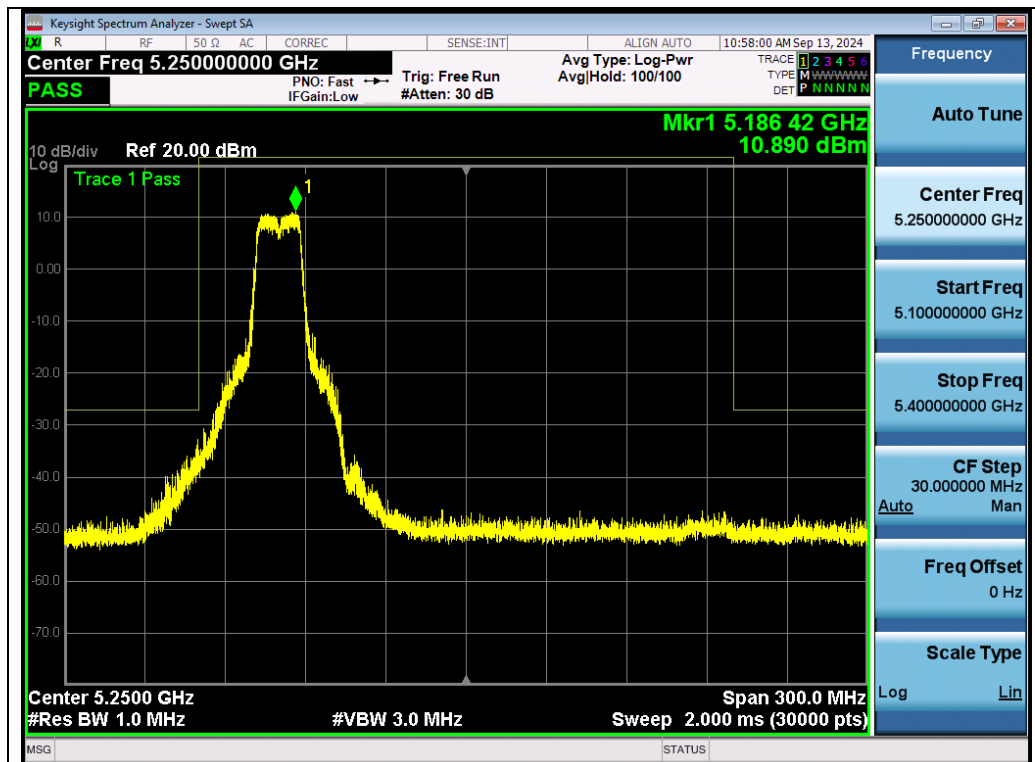
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10.4 Measurement Results

Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band



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Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 3



Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 4

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