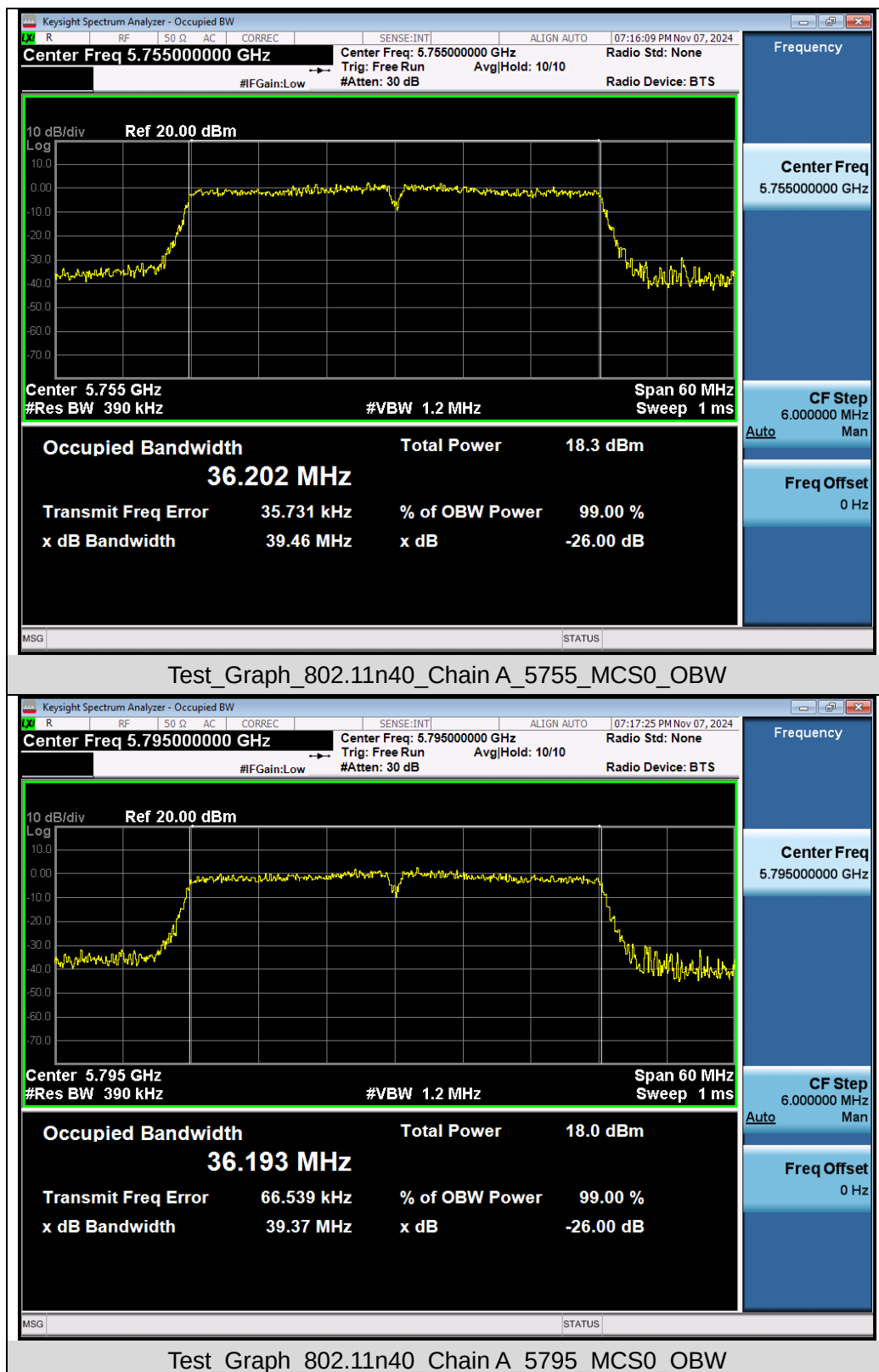
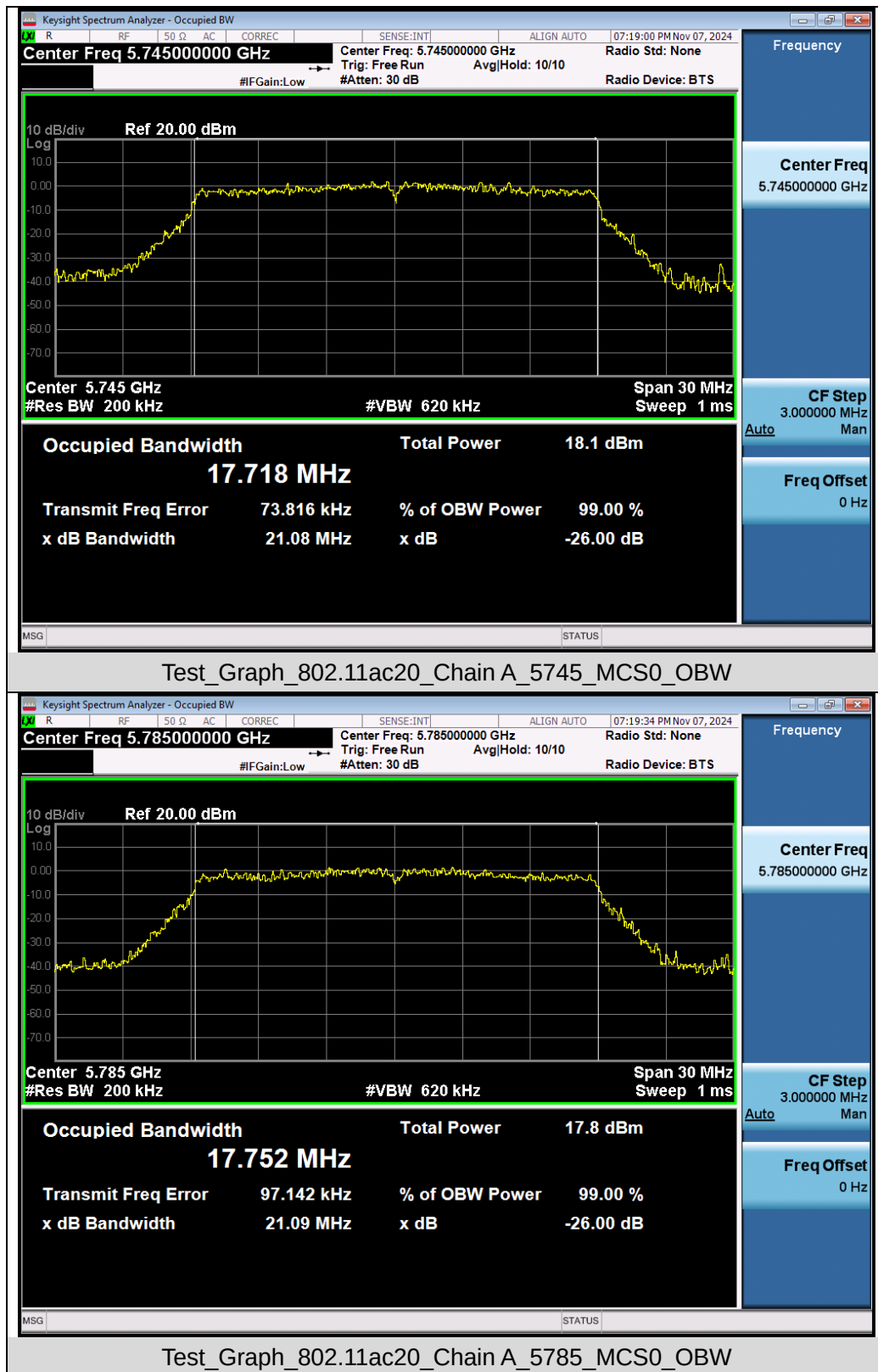
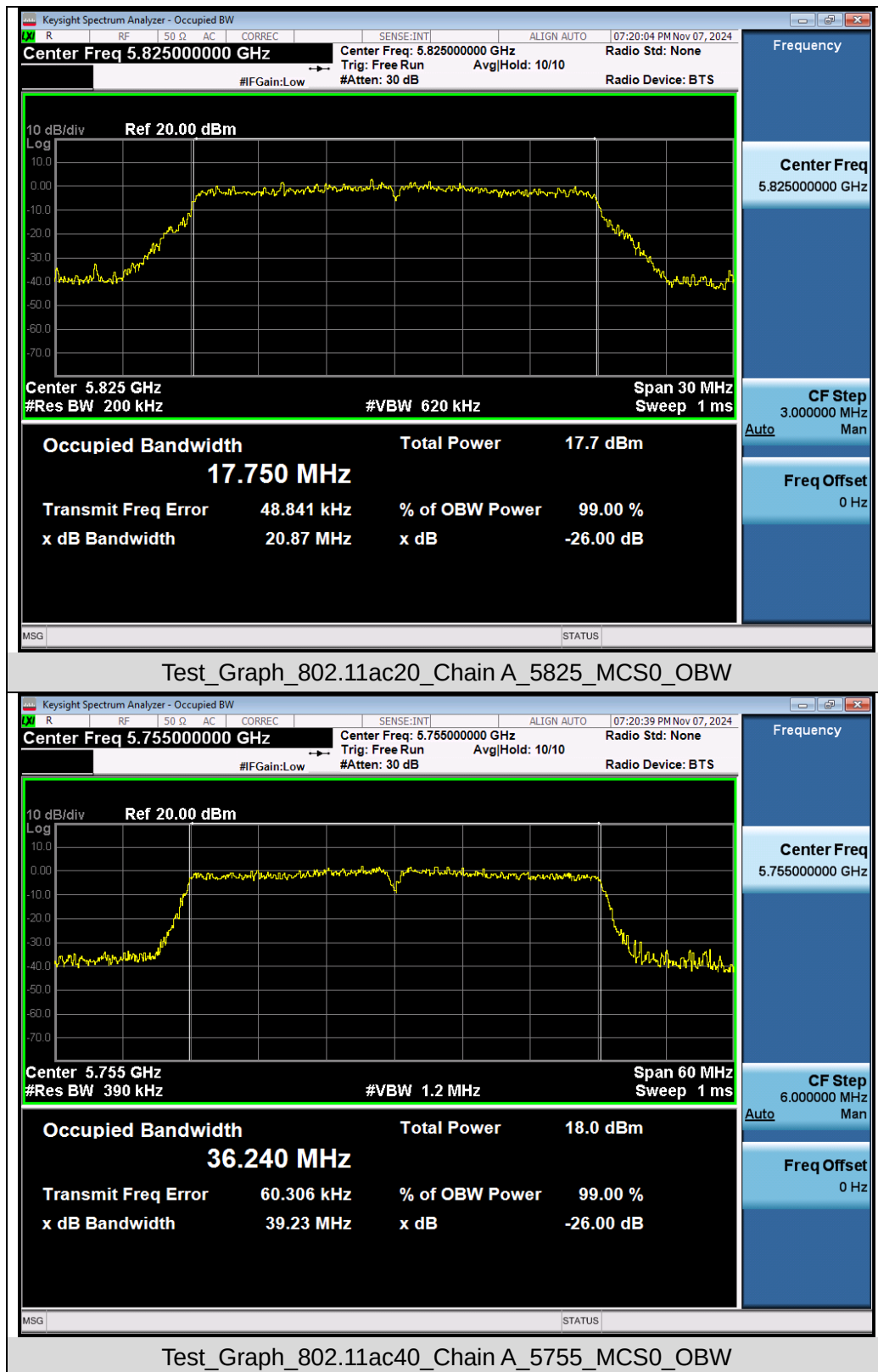




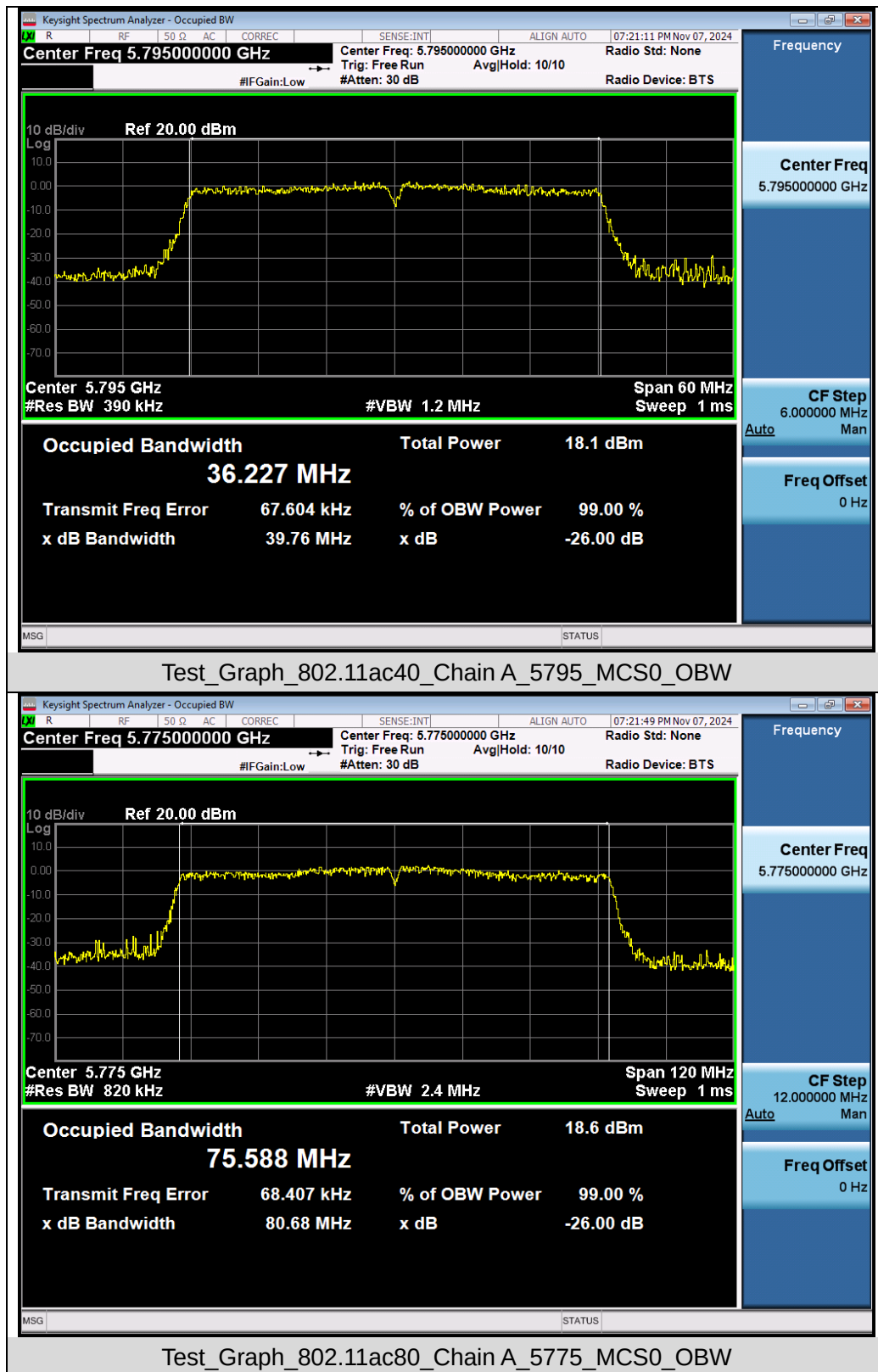
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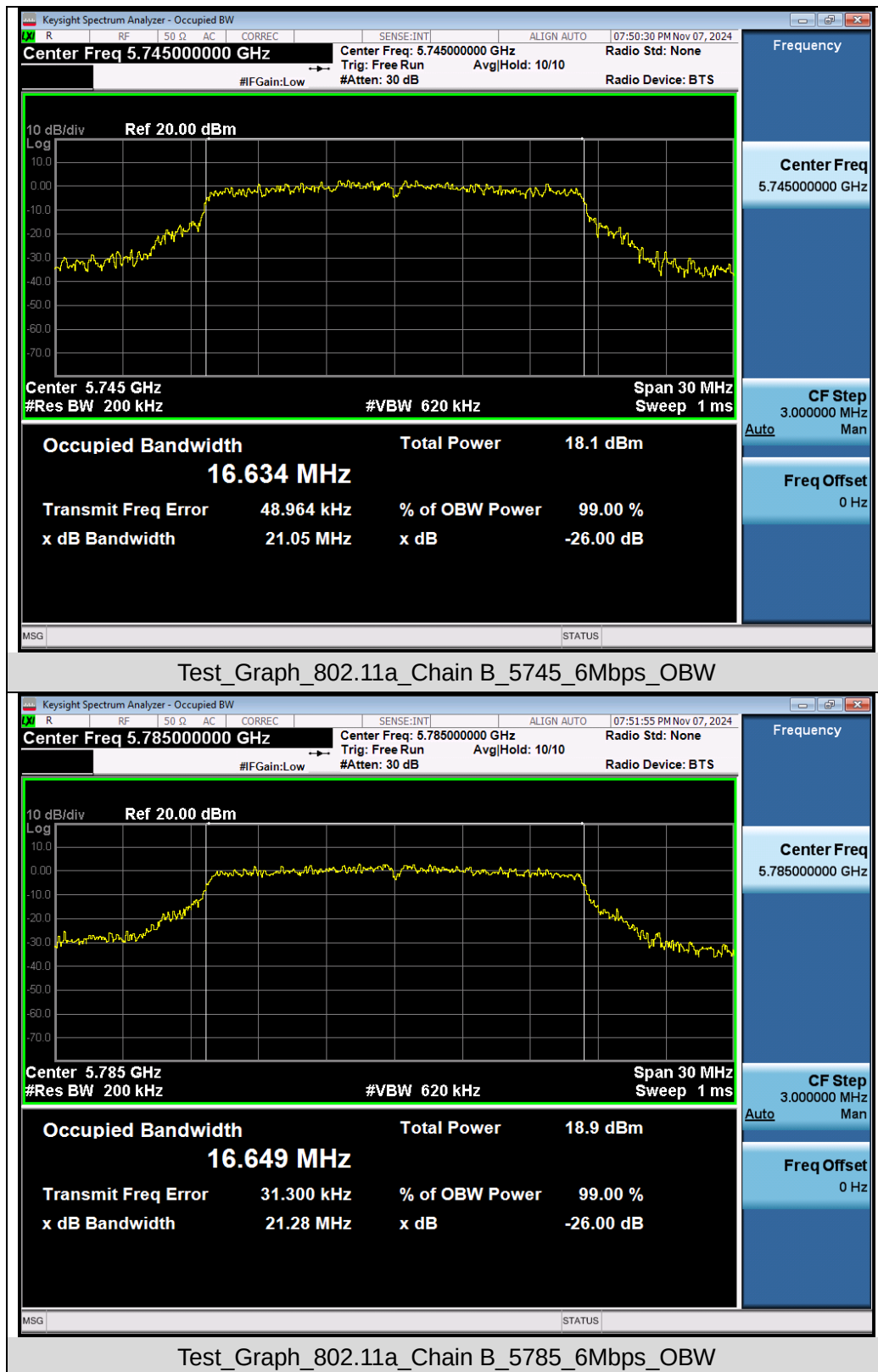
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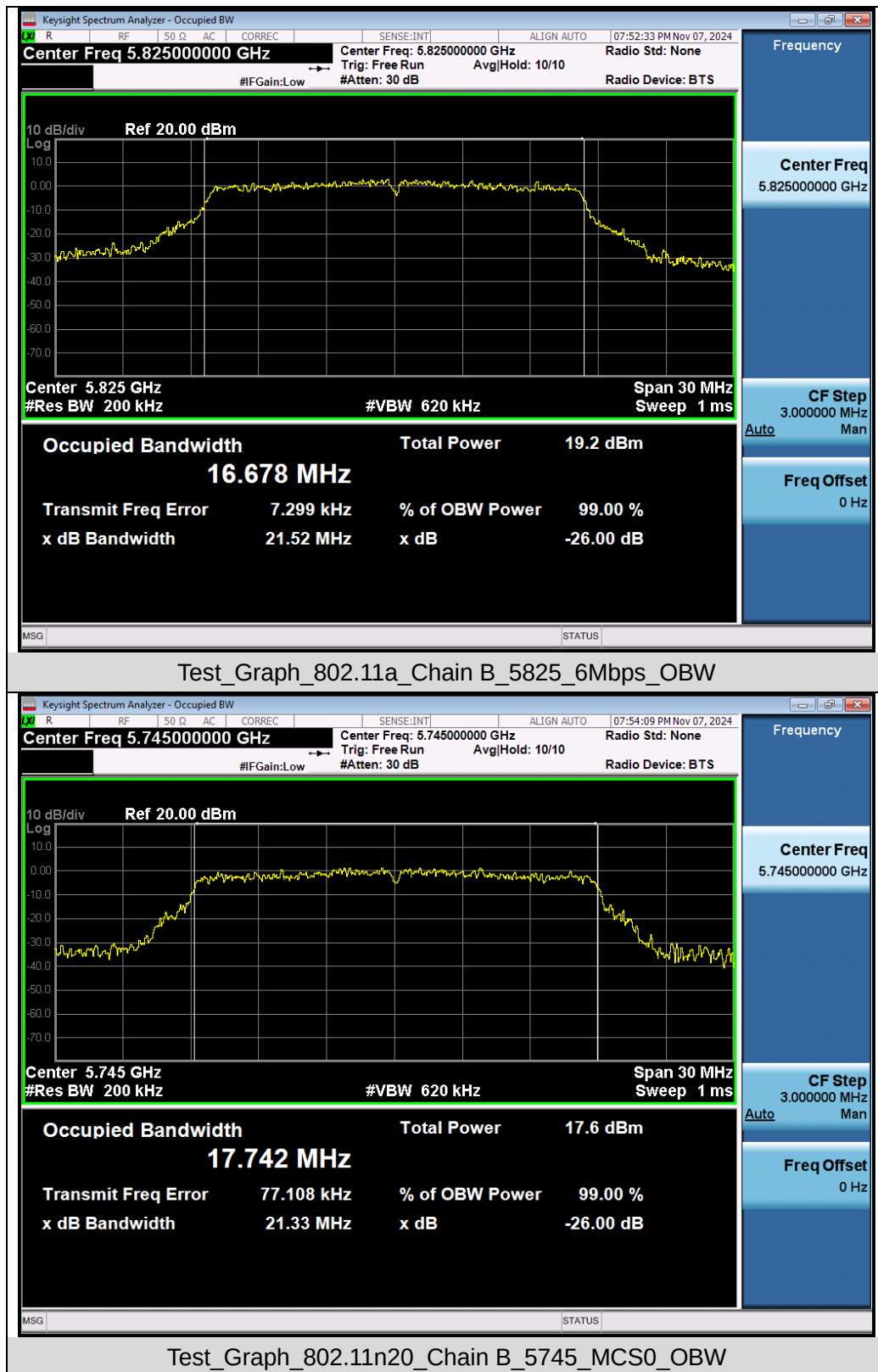
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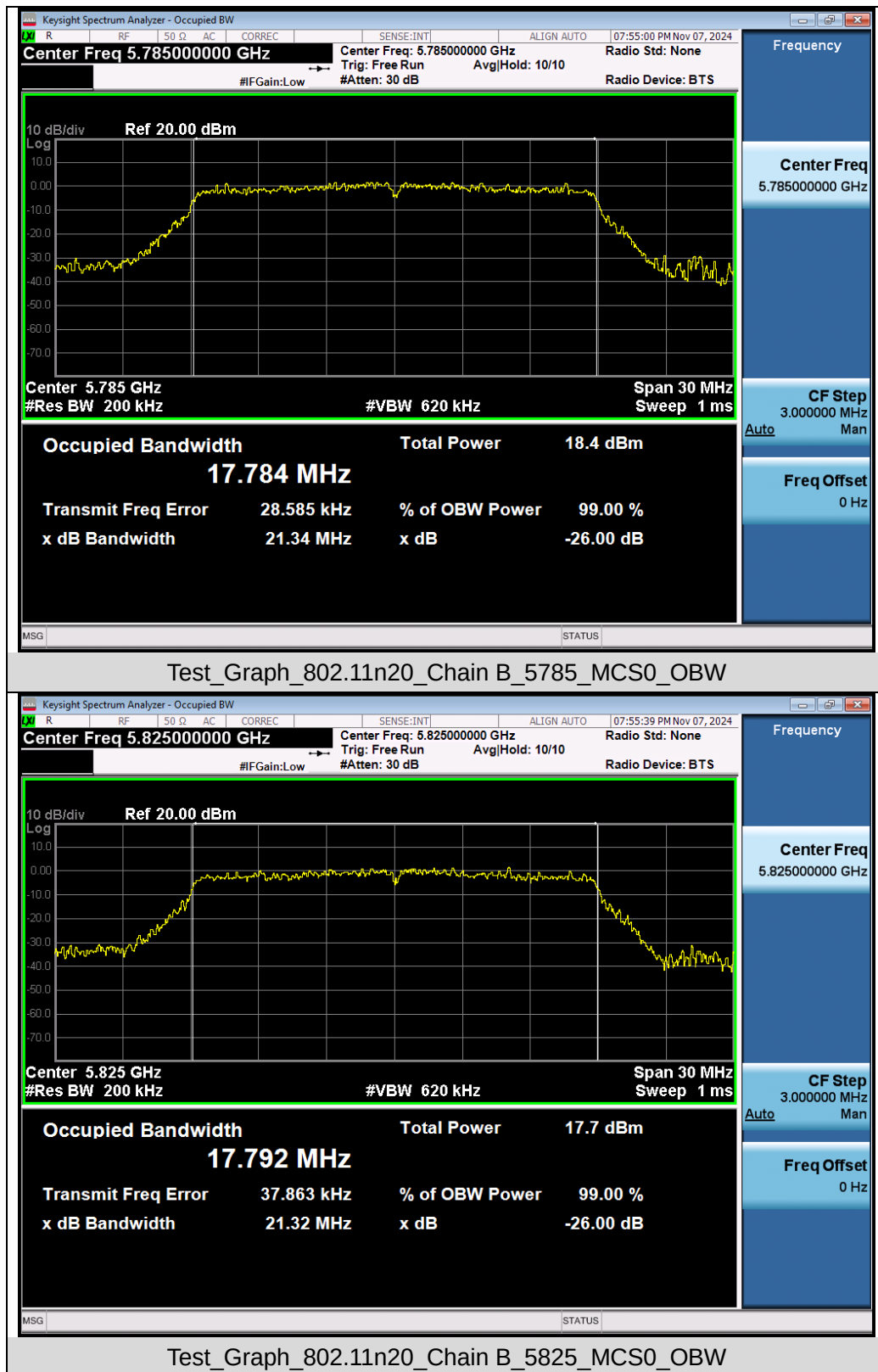
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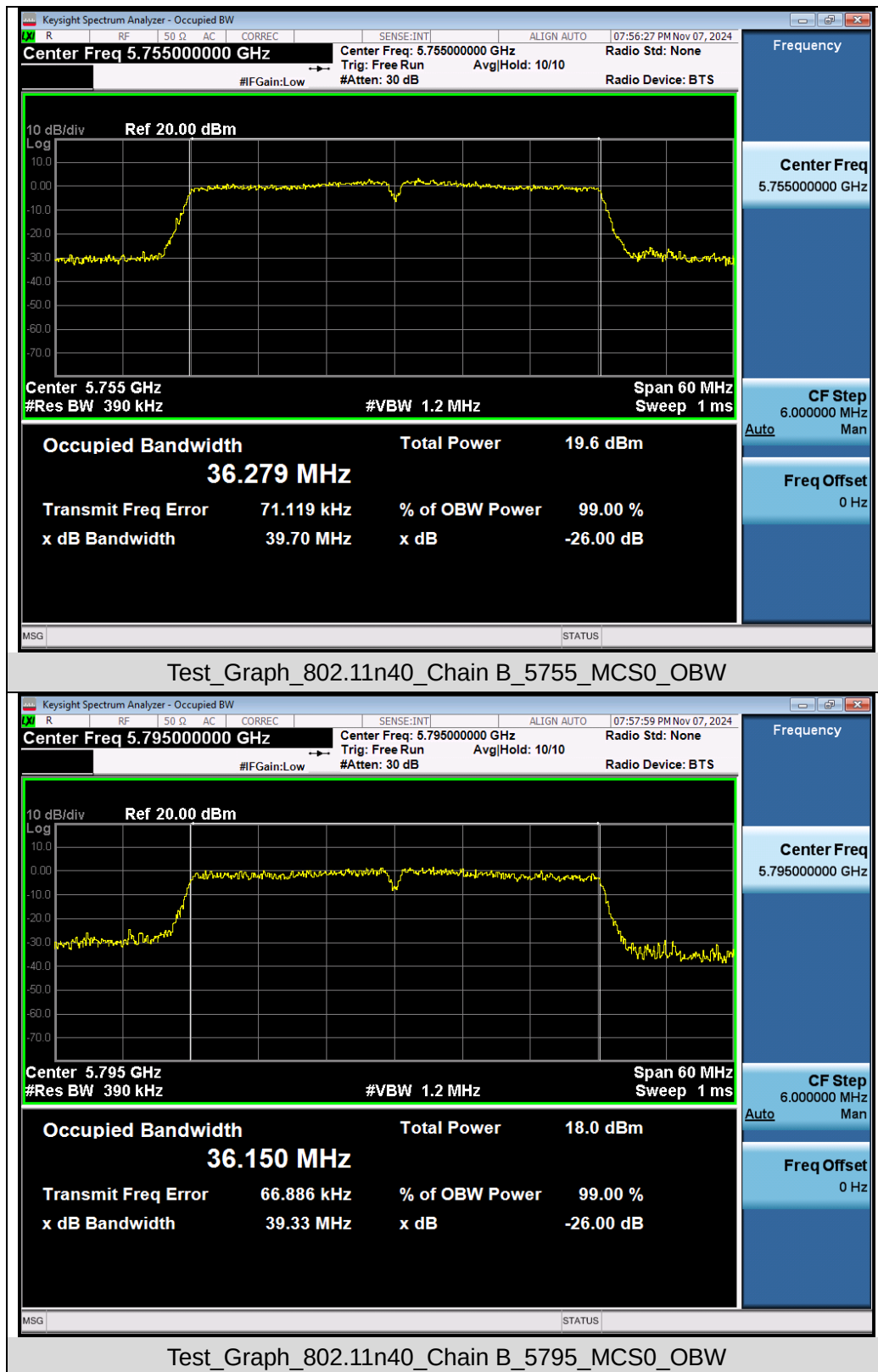
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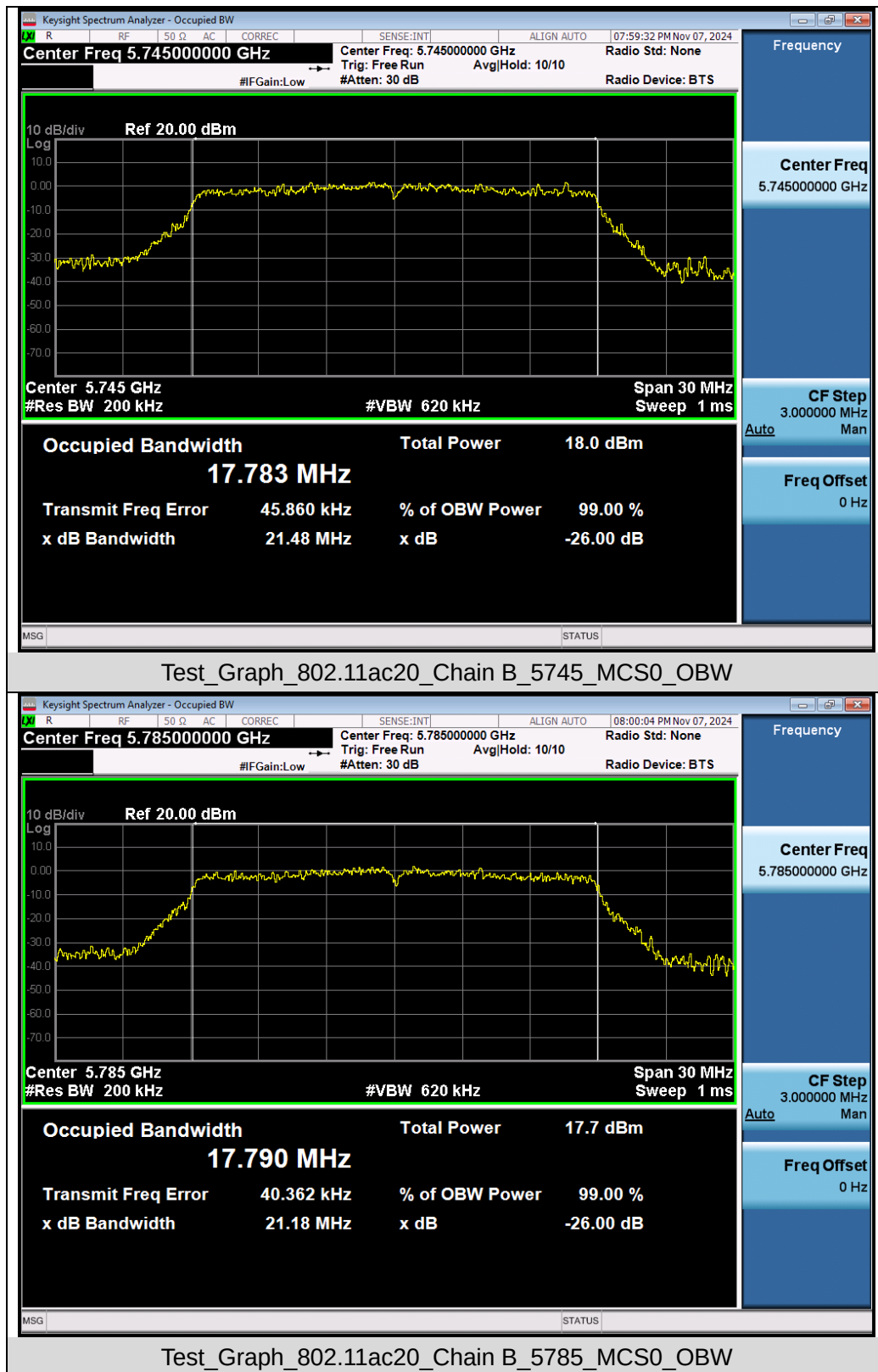
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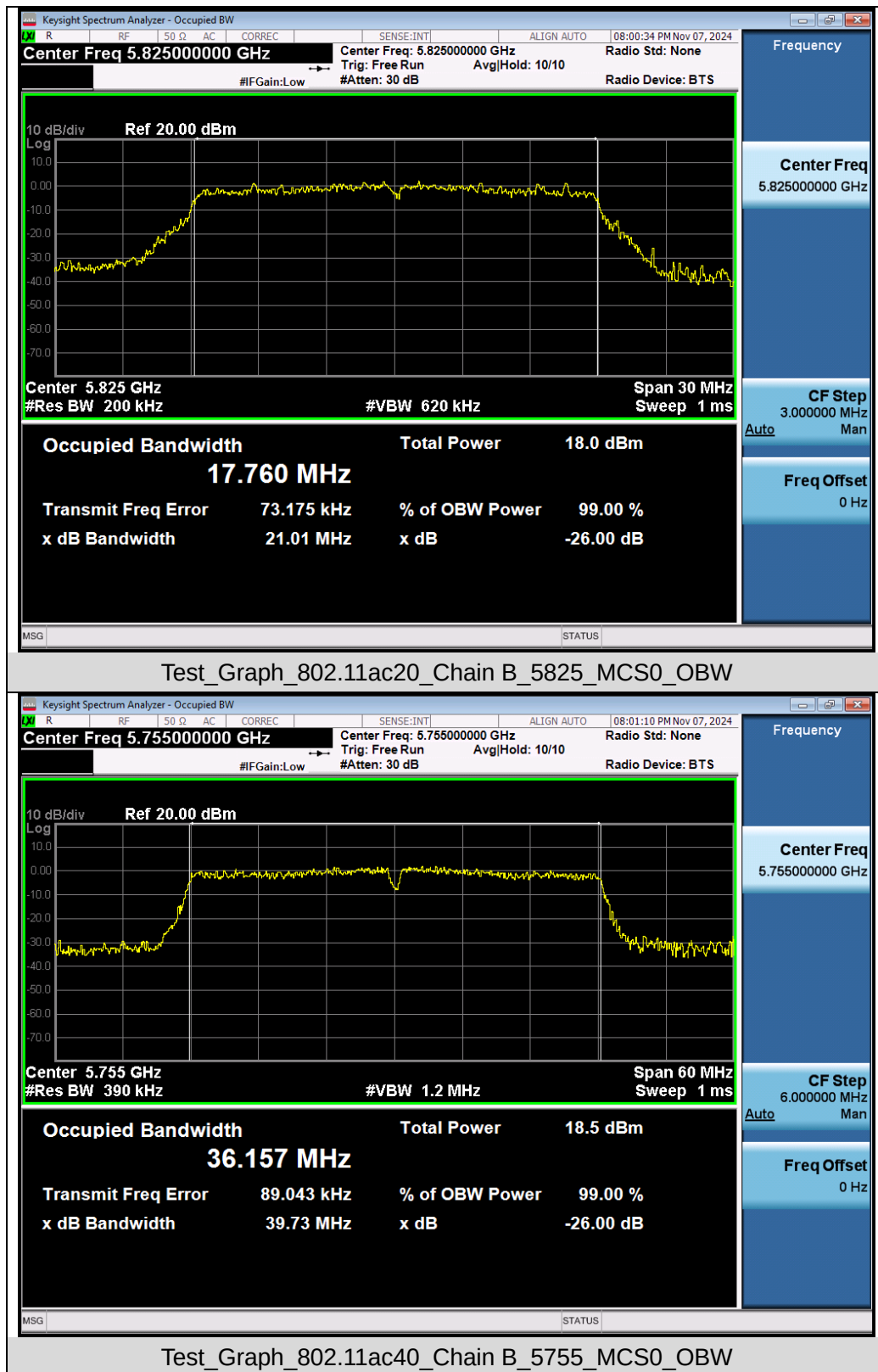
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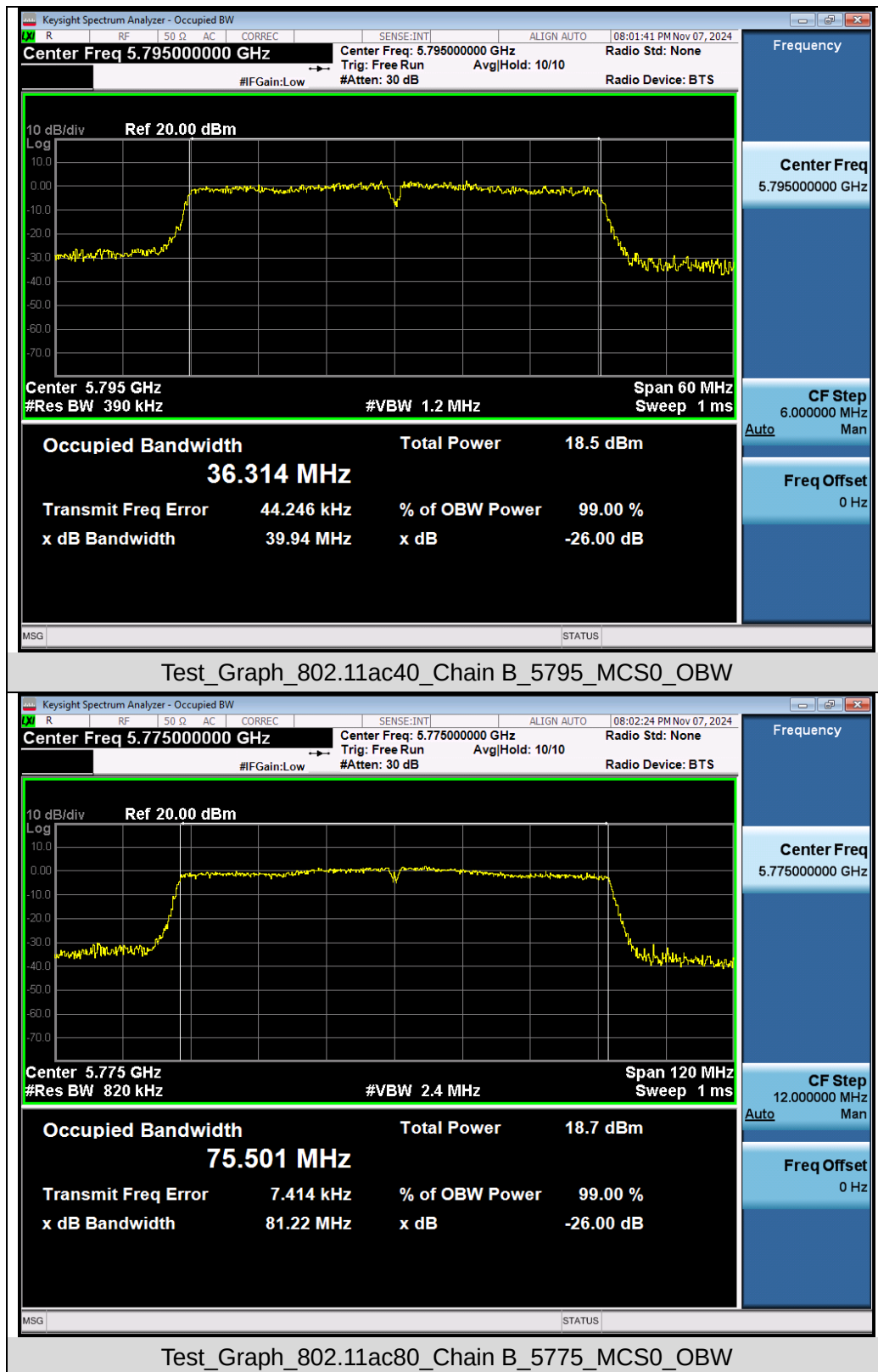
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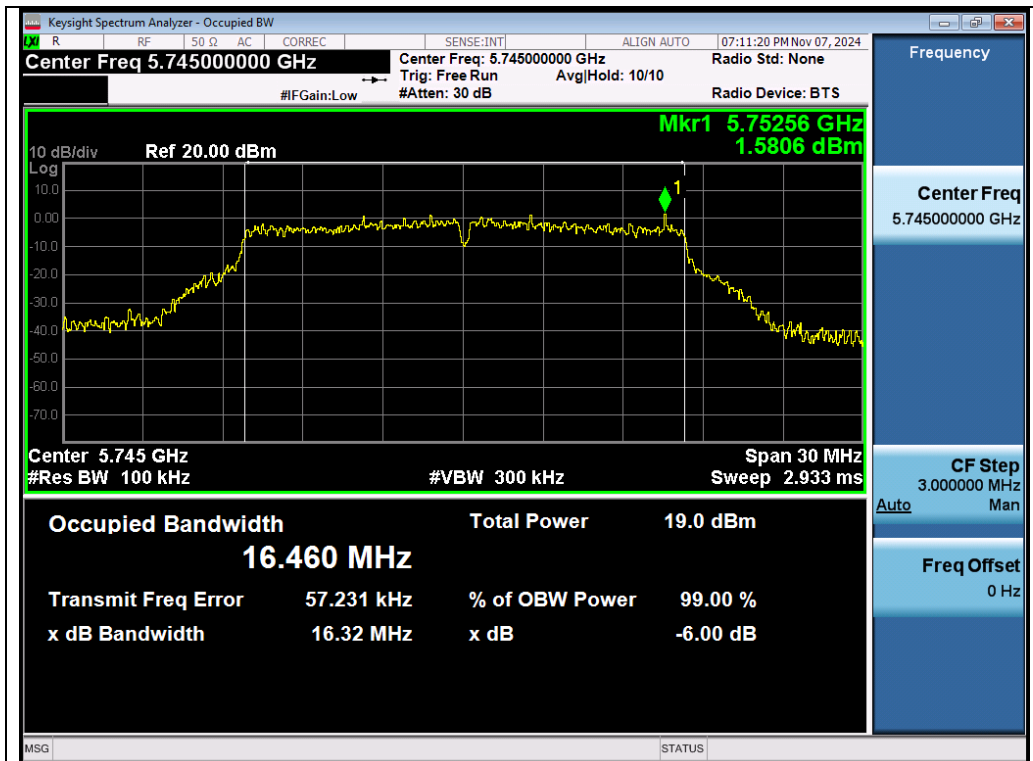


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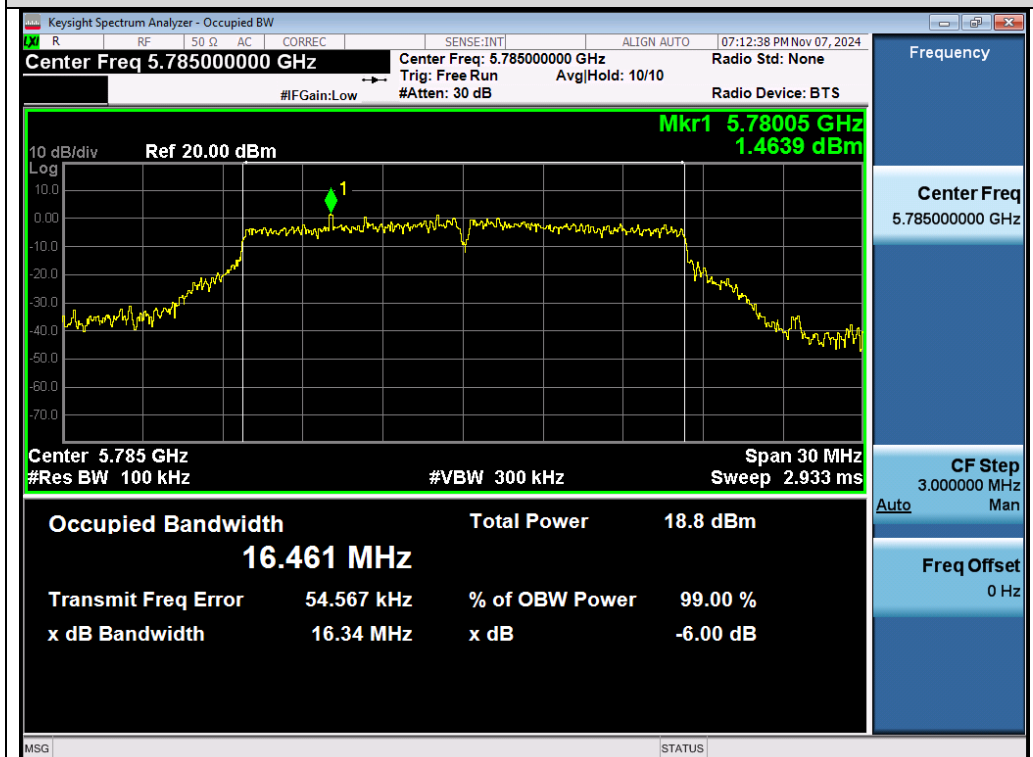


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

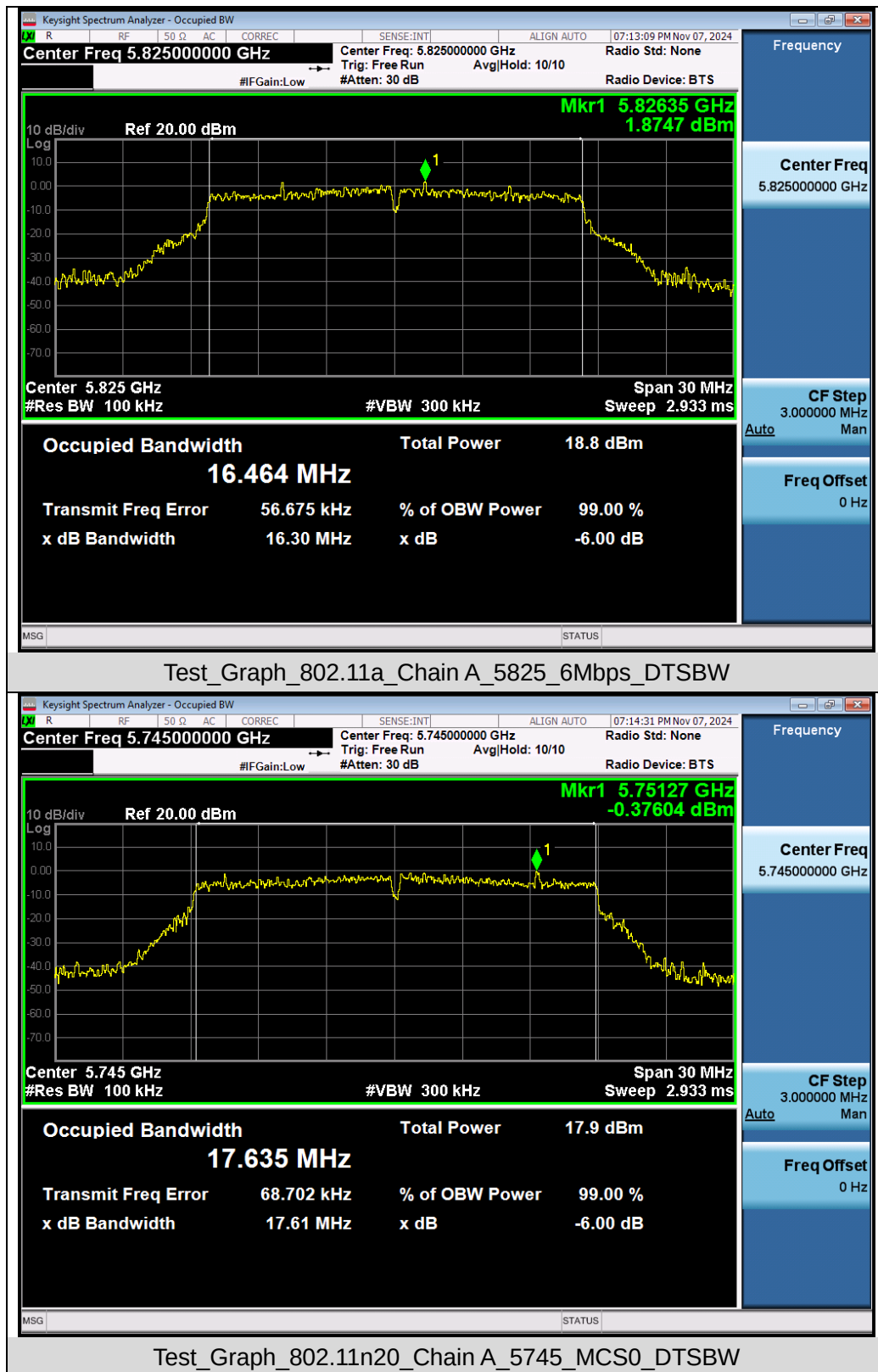


Test_Graph_802.11a_Chain A_5745_6Mbps_DTSBW

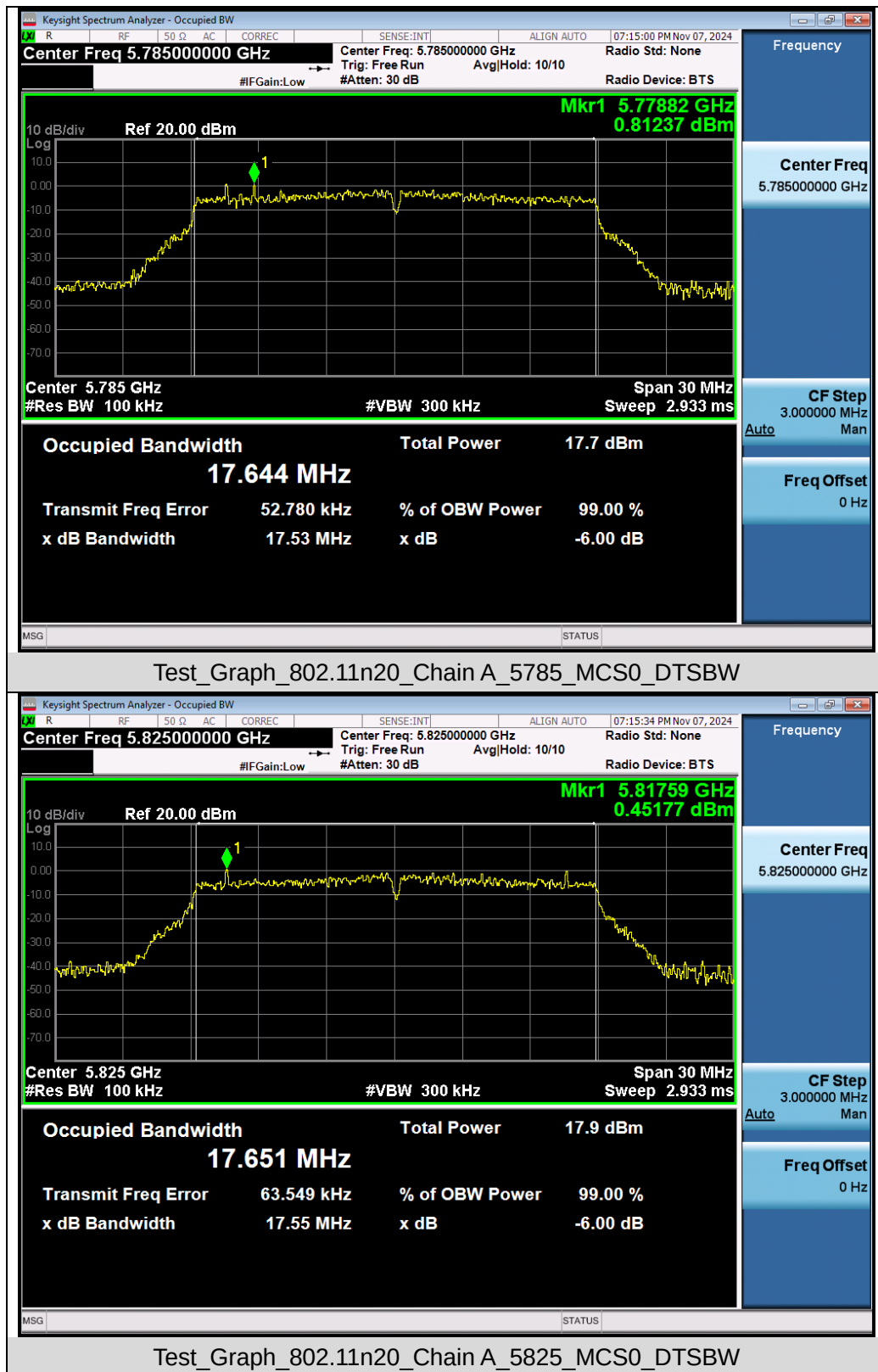


Test_Graph_802.11a_Chain A_5785_6Mbps_DTSBW

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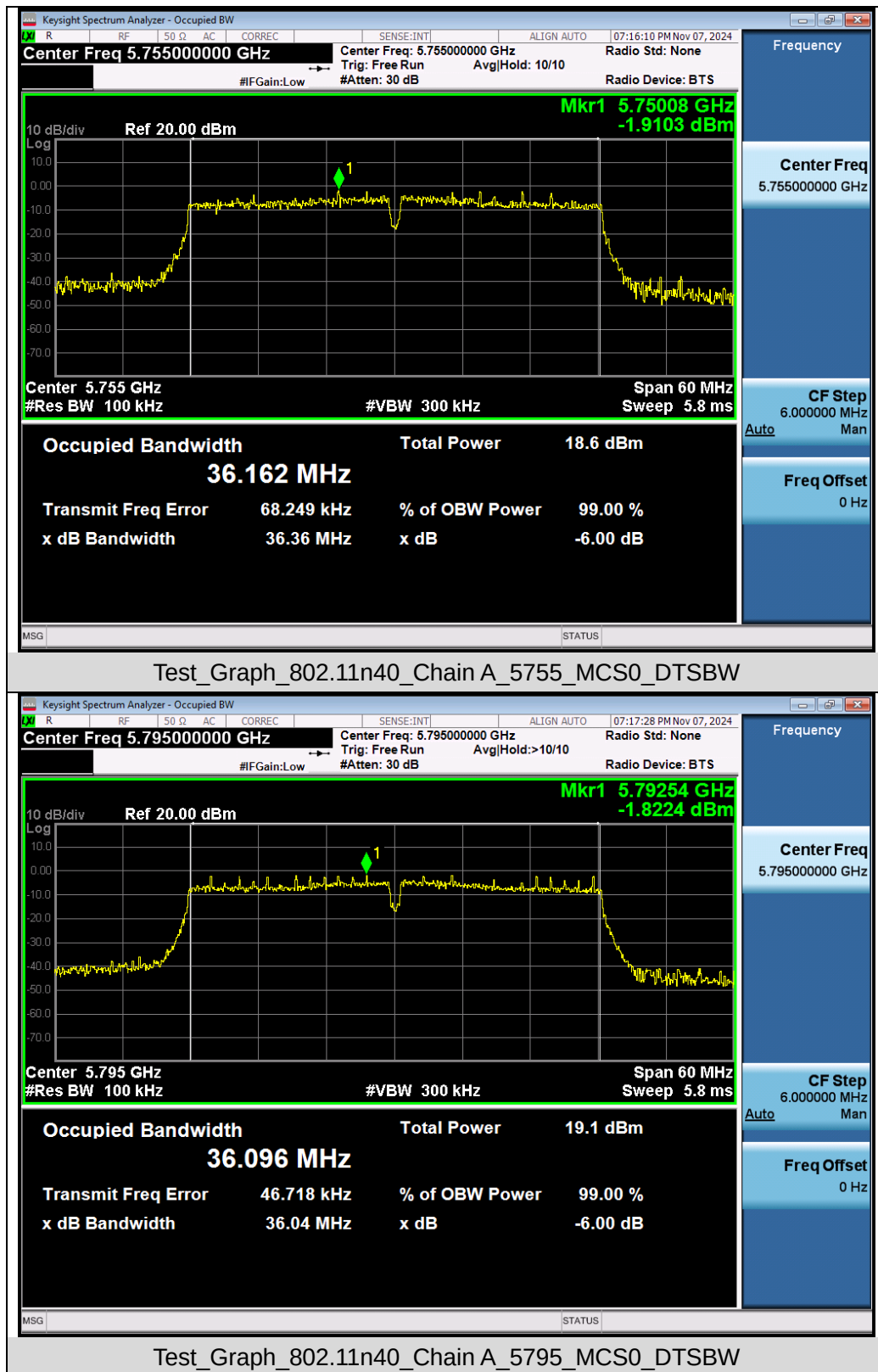


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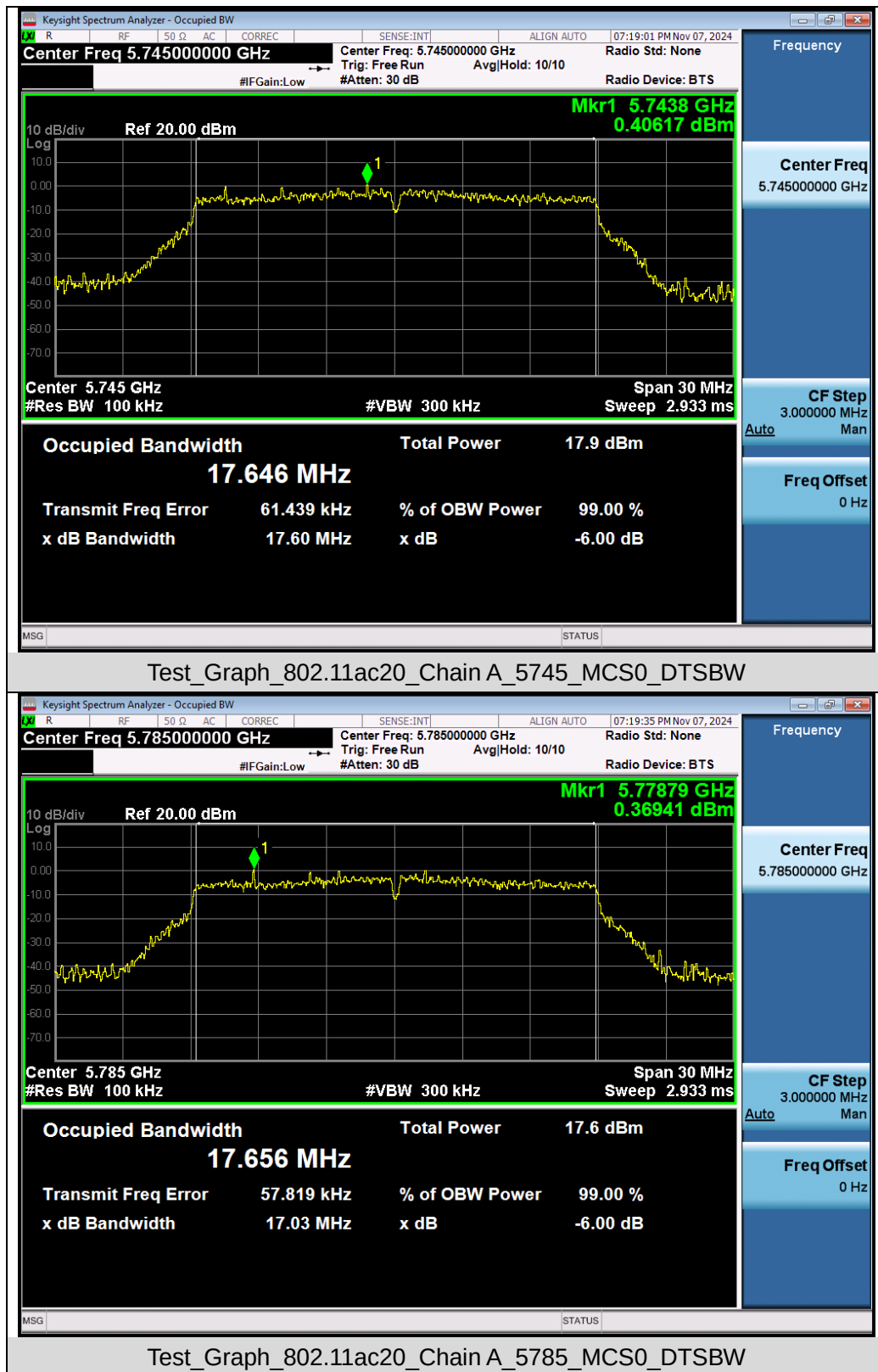
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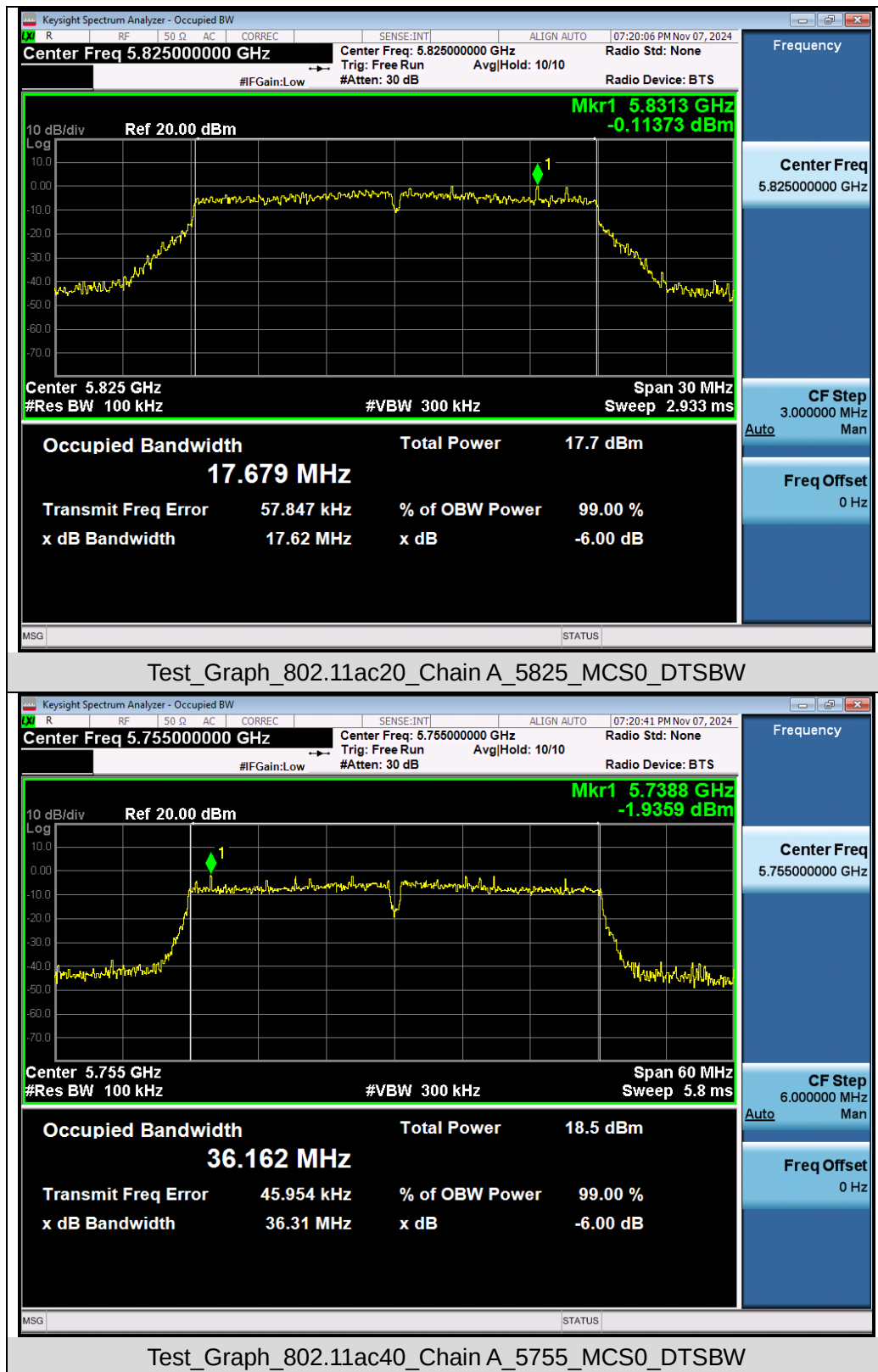


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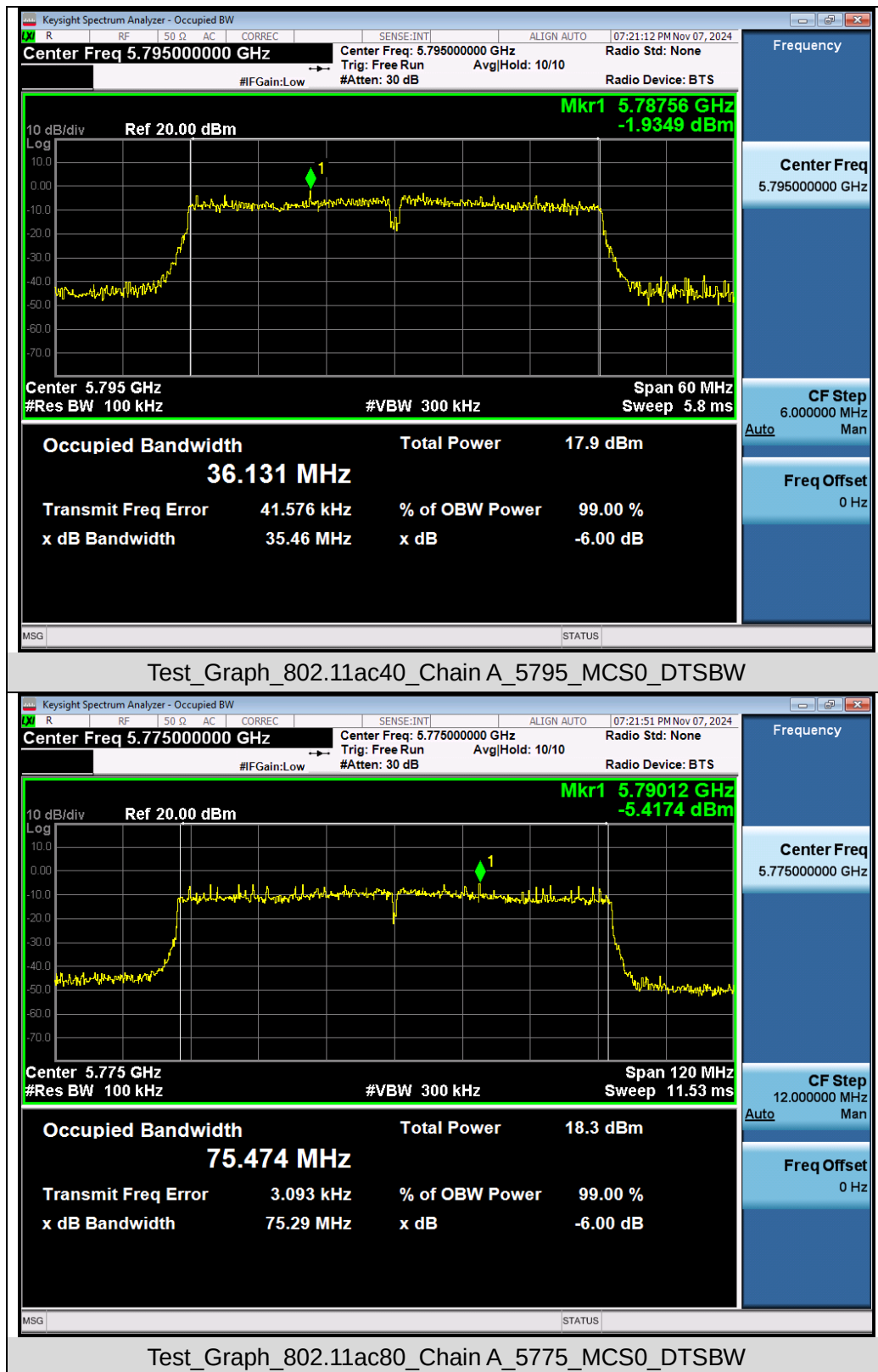


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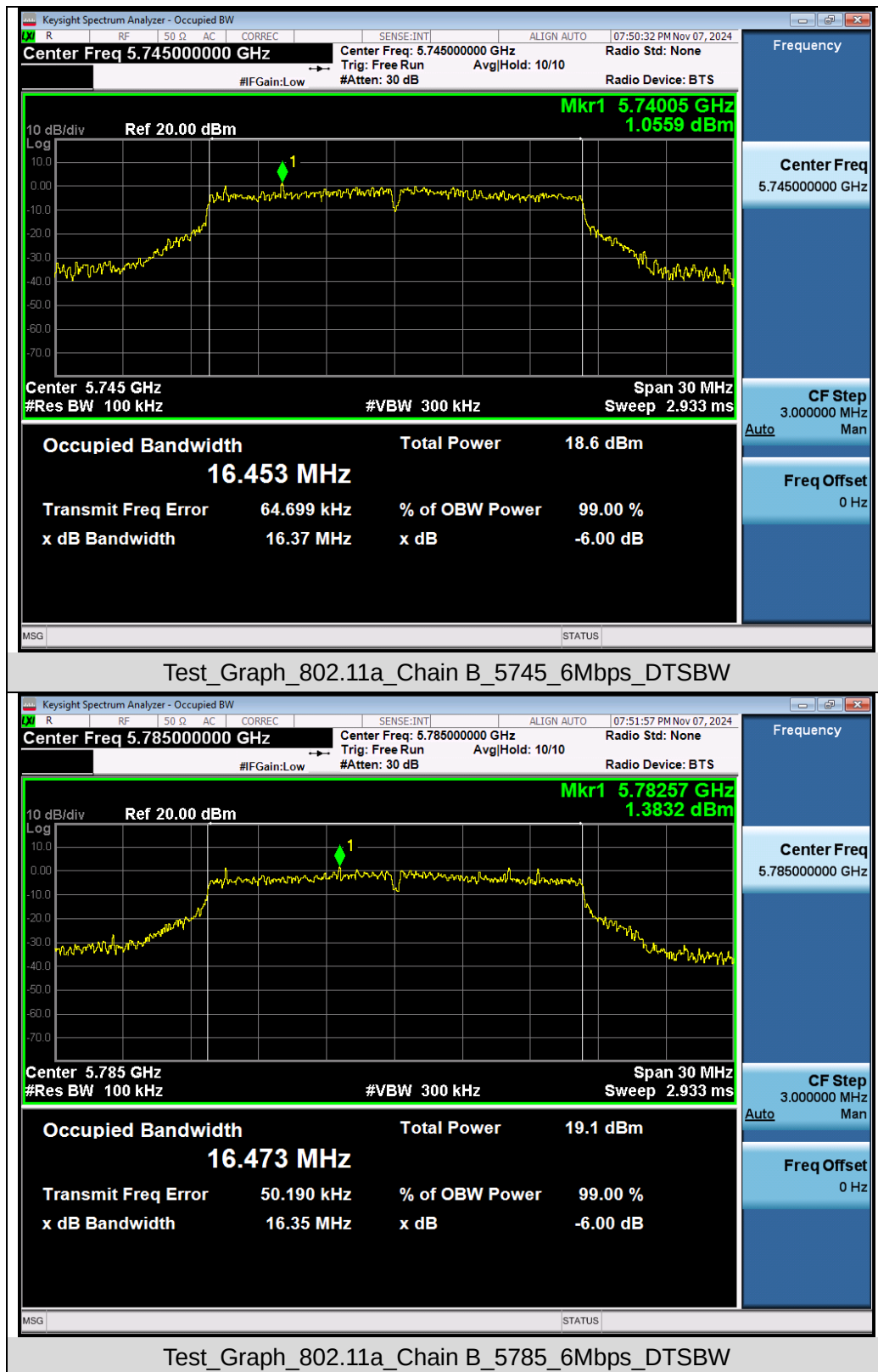


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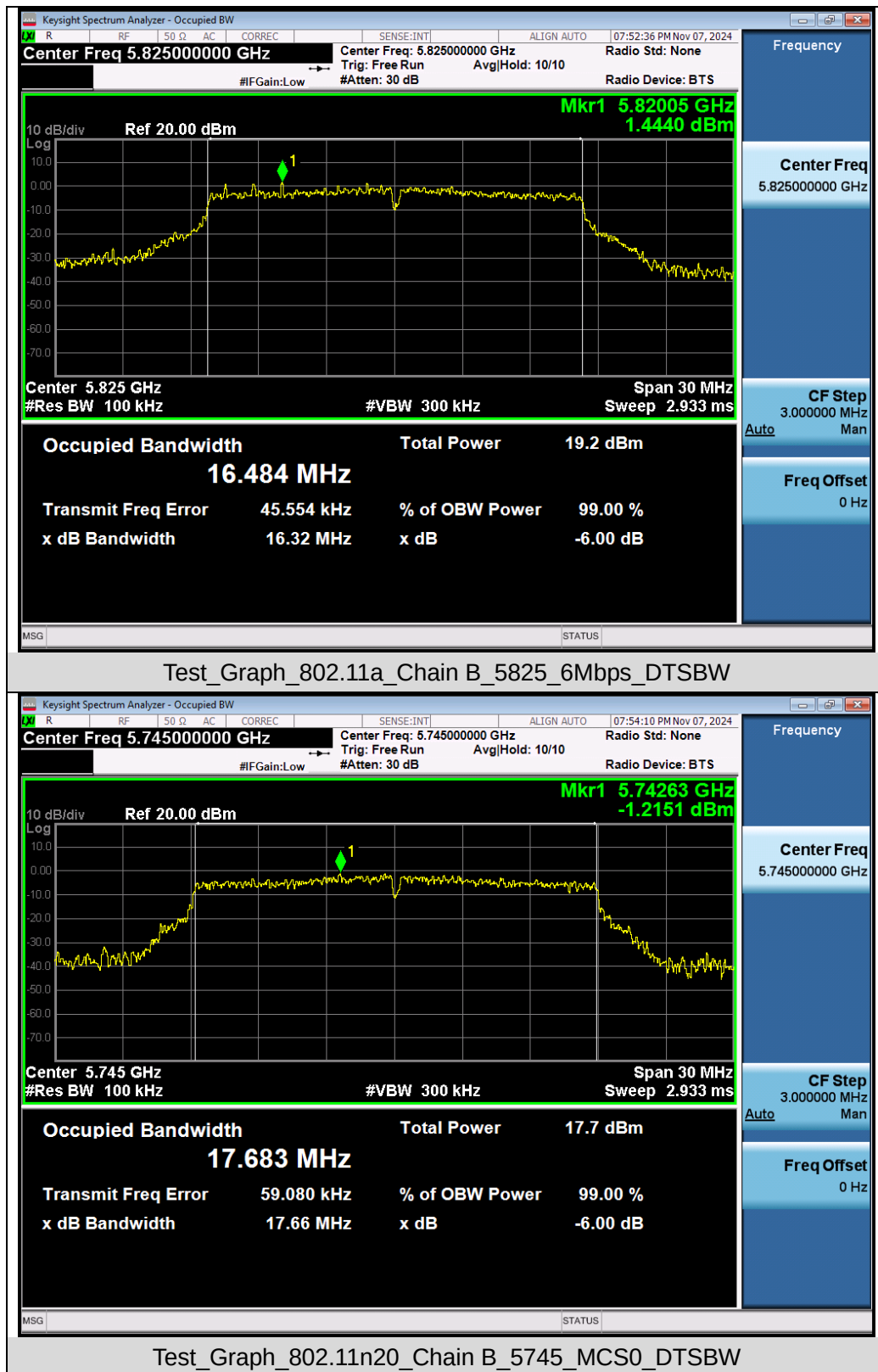
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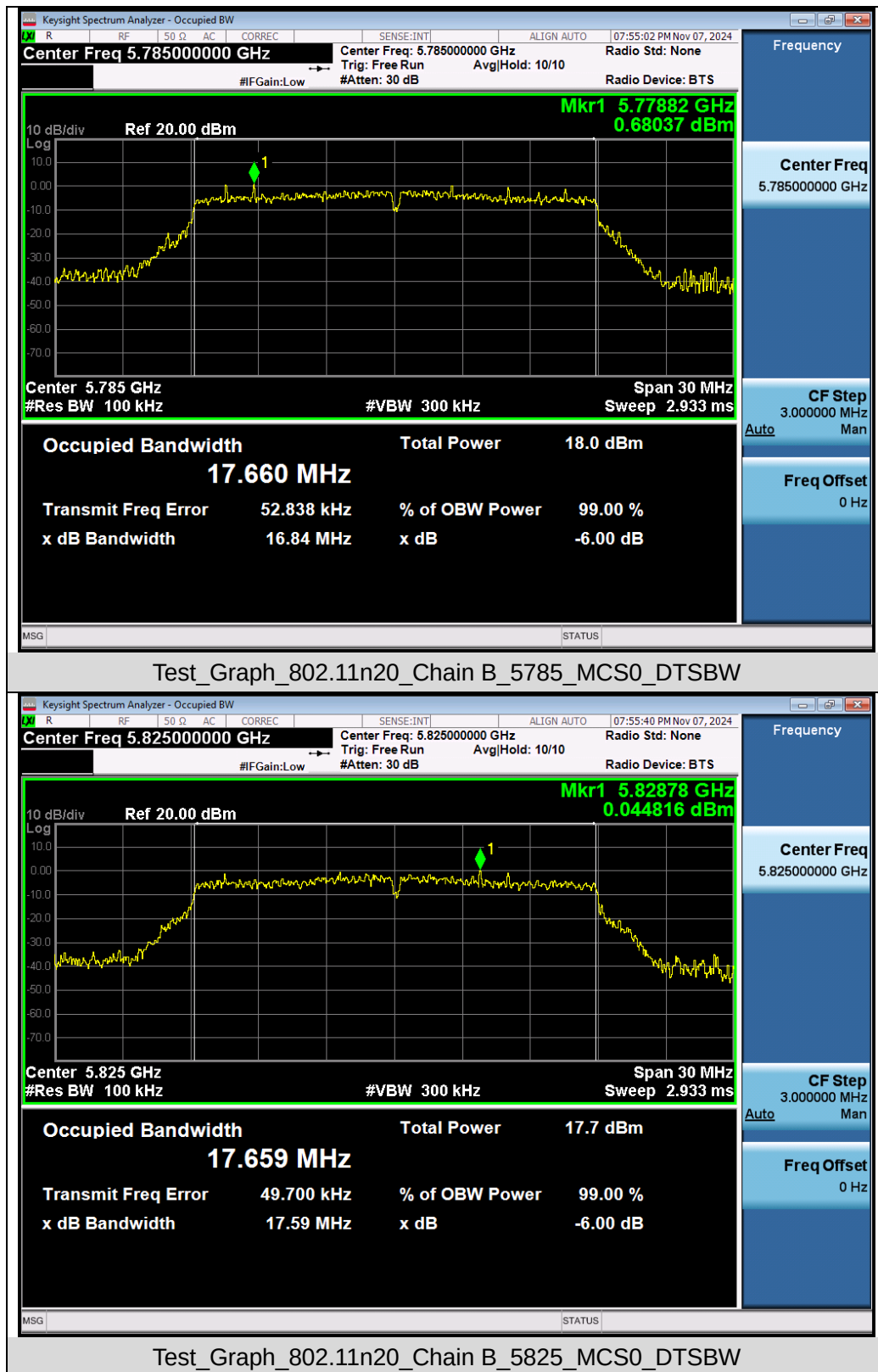
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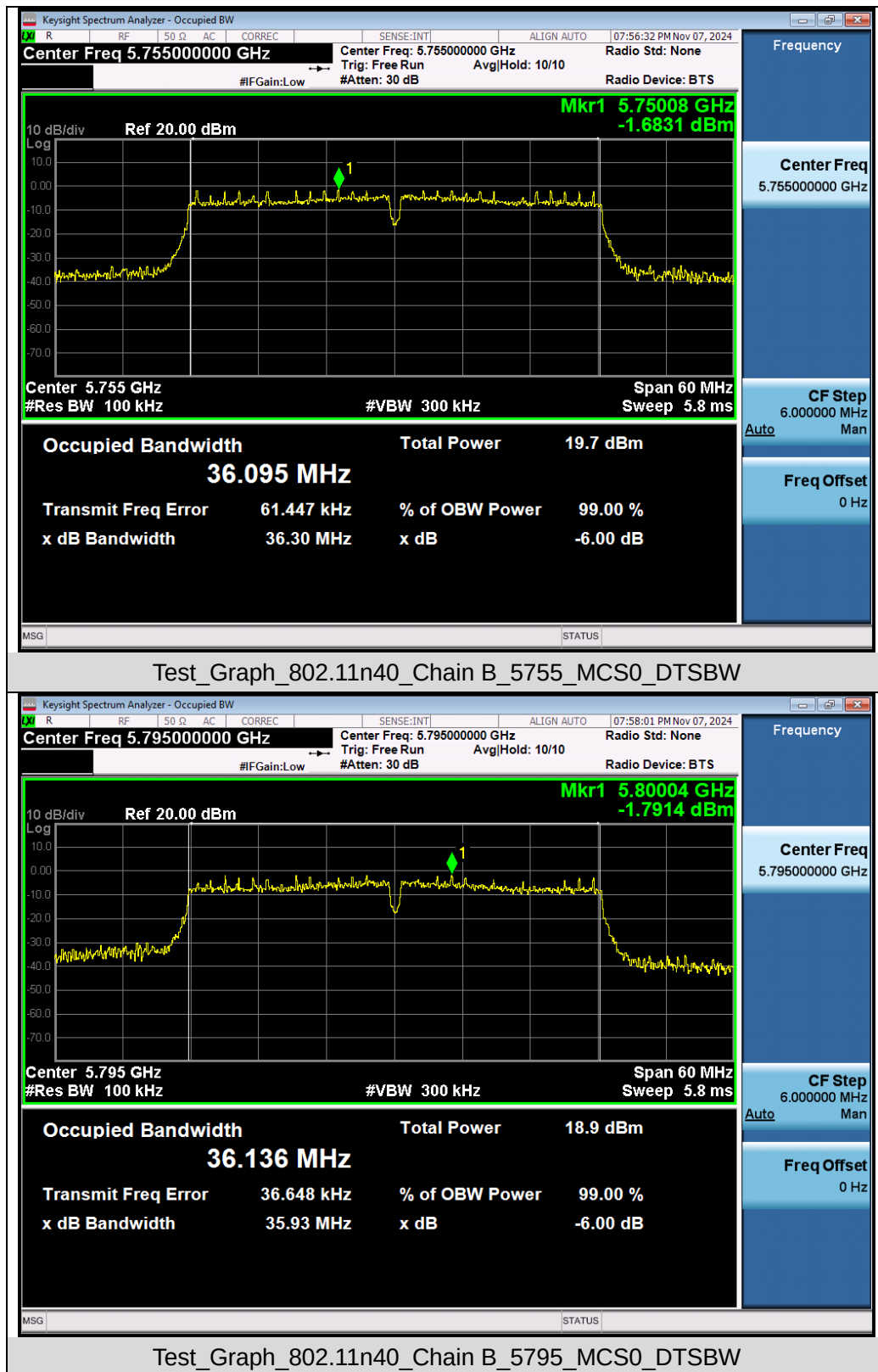
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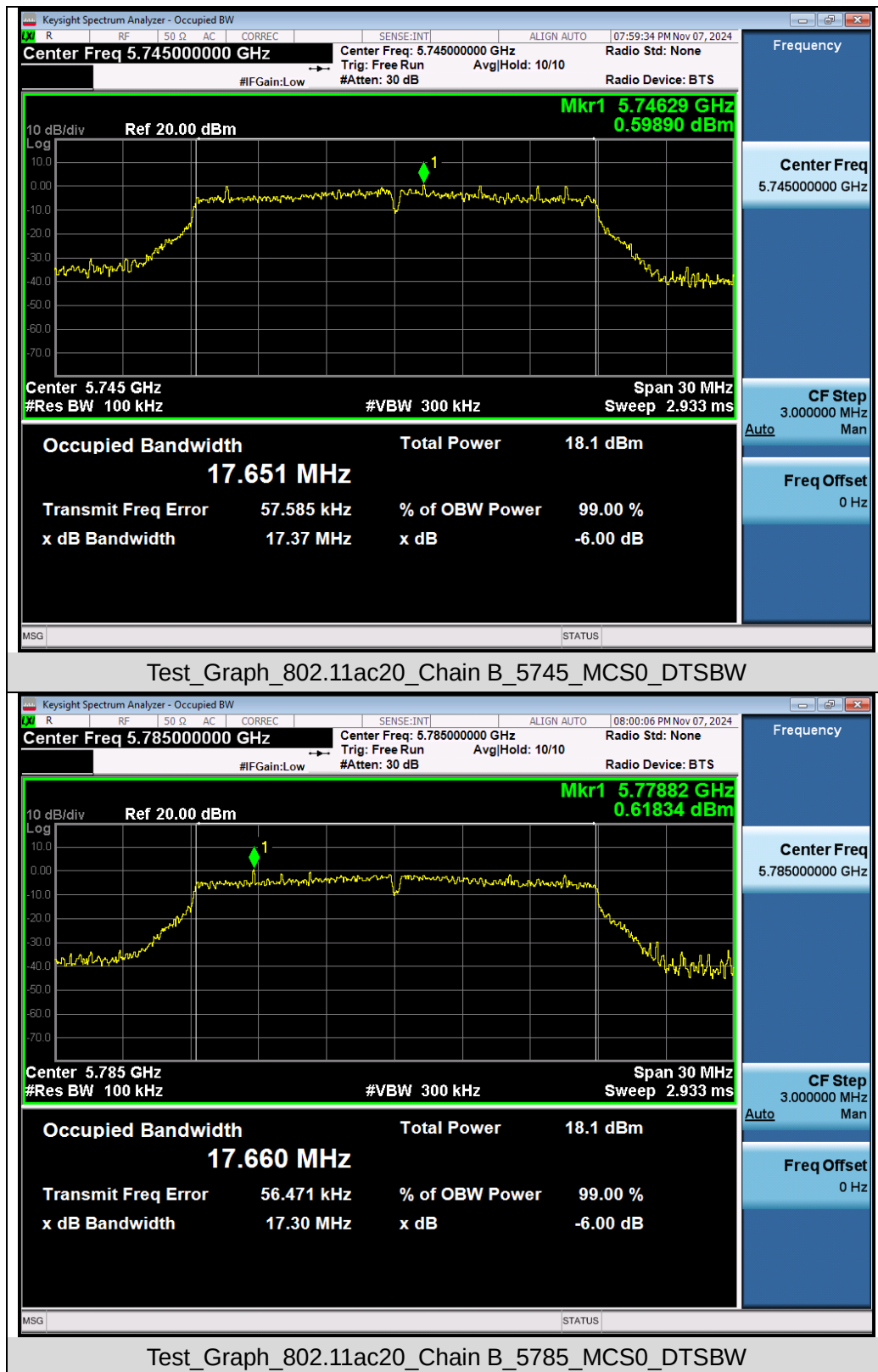
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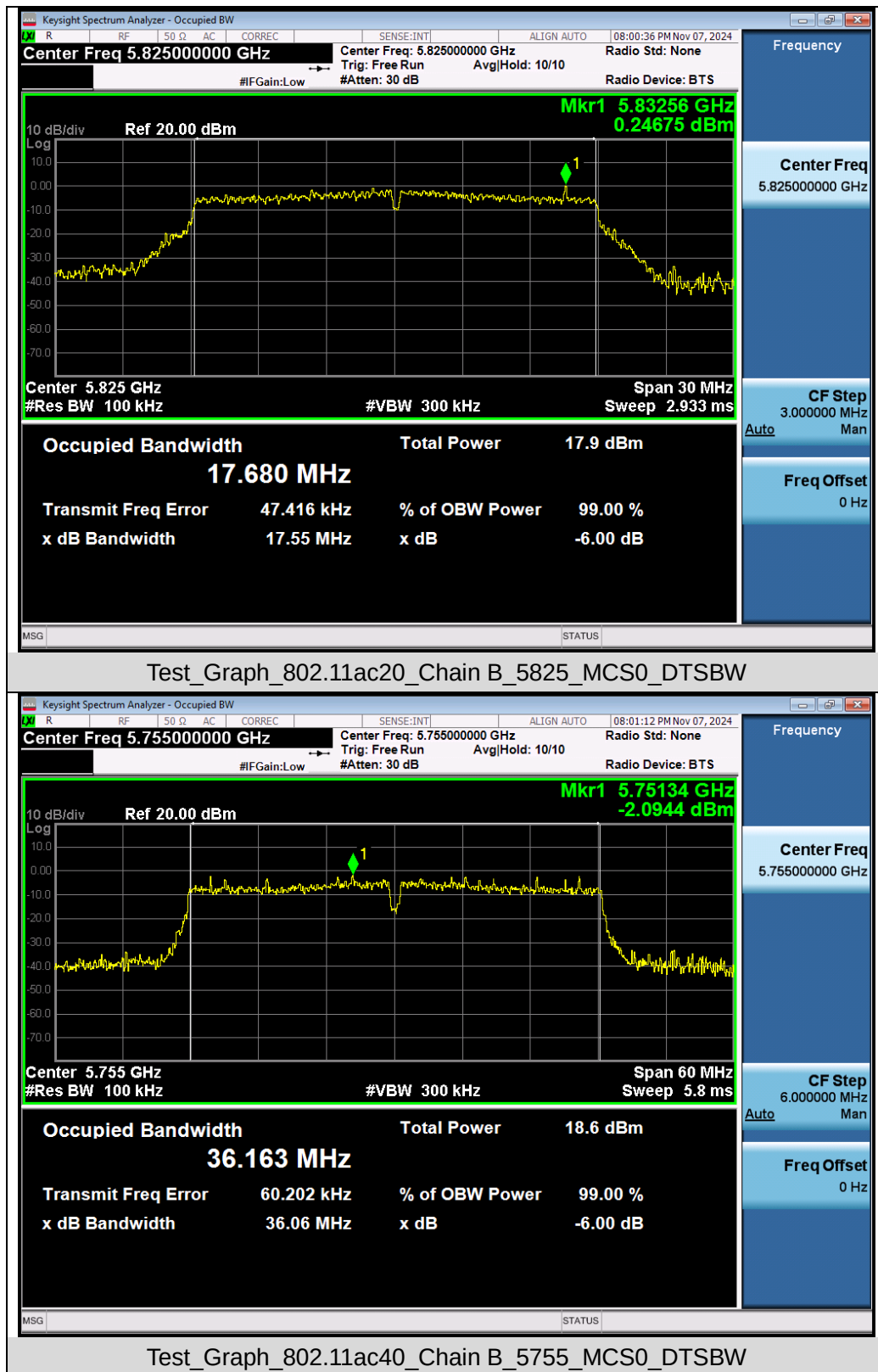


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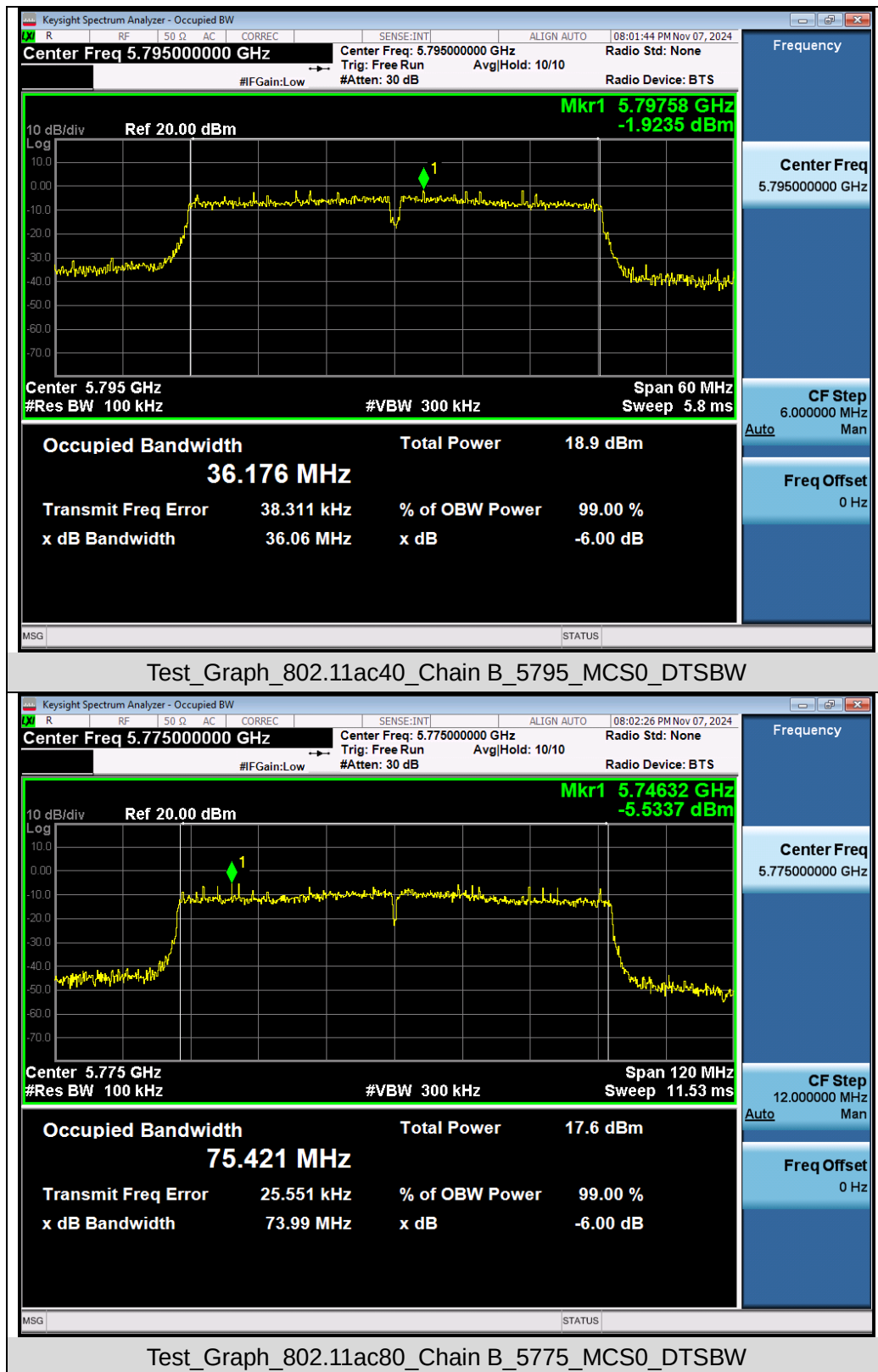
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9. Power Spectral Density Measurement

9.1 Provisions Applicable

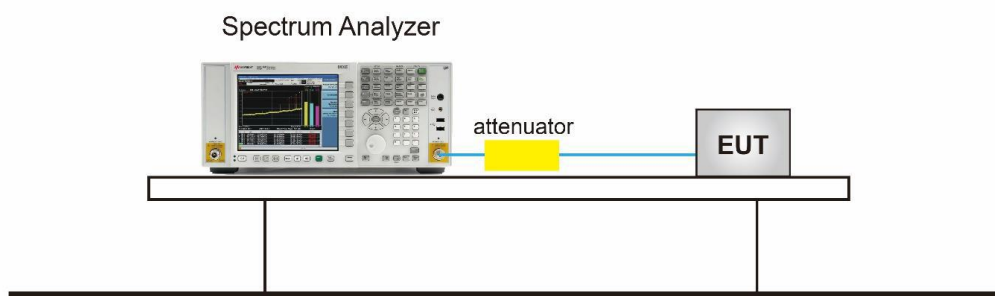
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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 $\times$ 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 $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99$ 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. 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-Chain A				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	3.410	11	Pass
	5200	3.353	11	Pass
	5240	3.104	11	Pass
802.11n20	5180	1.970	11	Pass
	5200	1.911	11	Pass
	5240	2.057	11	Pass
802.11n40	5190	-1.173	11	Pass
	5230	-1.054	11	Pass
802.11ac20	5180	2.090	11	Pass
	5200	1.964	11	Pass
	5240	2.029	11	Pass
802.11ac40	5190	-1.477	11	Pass
	5230	-1.268	11	Pass
802.11ac80	5210	-4.957	11	Pass

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-Chain B				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	3.254	11	Pass
	5200	2.947	11	Pass
	5240	2.795	11	Pass
802.11n20	5180	1.816	11	Pass
	5200	1.639	11	Pass
	5240	1.340	11	Pass
802.11n40	5190	-1.426	11	Pass
	5230	-1.835	11	Pass
802.11ac20	5180	1.785	11	Pass
	5200	1.802	11	Pass
	5240	1.405	11	Pass
802.11ac40	5190	-1.697	11	Pass
	5230	-1.968	11	Pass
802.11ac80	5210	-5.032	11	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain A					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-5.614	1.376	30	Pass
	5785	-4.996	1.994	30	Pass
	5825	-5.492	1.498	30	Pass
802.11n20	5745	-6.570	0.420	30	Pass
	5785	-6.784	0.206	30	Pass
	5825	-6.540	0.450	30	Pass
802.11n40	5755	-9.745	-2.755	30	Pass
	5795	-10.173	-3.183	30	Pass
802.11ac20	5745	-6.040	0.950	30	Pass
	5785	-6.862	0.128	30	Pass
	5825	-6.730	0.260	30	Pass
802.11ac40	5755	-9.747	-2.757	30	Pass
	5795	-10.206	-3.216	30	Pass
802.11ac80	5775	-13.226	-6.236	30	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain B					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-5.466	1.524	30	Pass
	5785	-5.222	1.768	30	Pass
	5825	-5.507	1.483	30	Pass
802.11n20	5745	-6.817	0.173	30	Pass
	5785	-6.834	0.156	30	Pass
	5825	-6.976	0.014	30	Pass
802.11n40	5755	-9.639	-2.649	30	Pass
	5795	-9.657	-2.667	30	Pass
802.11ac20	5745	-6.813	0.077	30	Pass
	5785	-6.563	0.427	30	Pass
	5825	-6.676	0.314	30	Pass
802.11ac40	5755	-9.722	-2.732	30	Pass
	5795	-9.965	-2.975	30	Pass
802.11ac80	5775	-13.727	-6.737	30	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	4.904	11	Pass
	5200	4.787	11	Pass
	5240	4.724	11	Pass
802.11n40	5190	1.713	11	Pass
	5230	1.583	11	Pass
802.11ac20	5180	4.95	11	Pass
	5200	4.894	11	Pass
	5240	4.738	11	Pass
802.11ac40	5190	1.425	11	Pass
	5230	1.406	11	Pass
802.11ac80	5210	-1.984	11	Pass

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	-3.681	3.309	30	Pass
	5785	-3.799	3.191	30	Pass
	5825	-3.742	3.248	30	Pass
802.11n40	5755	-6.681	0.309	30	Pass
	5795	-6.897	0.093	30	Pass
802.11ac20	5745	-3.399	3.546	30	Pass
	5785	-3.700	3.290	30	Pass
	5825	-3.693	3.297	30	Pass
802.11ac40	5755	-6.724	0.266	30	Pass
	5795	-7.074	-0.084	30	Pass
802.11ac80	5775	-10.459	-3.469	30	Pass

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

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

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

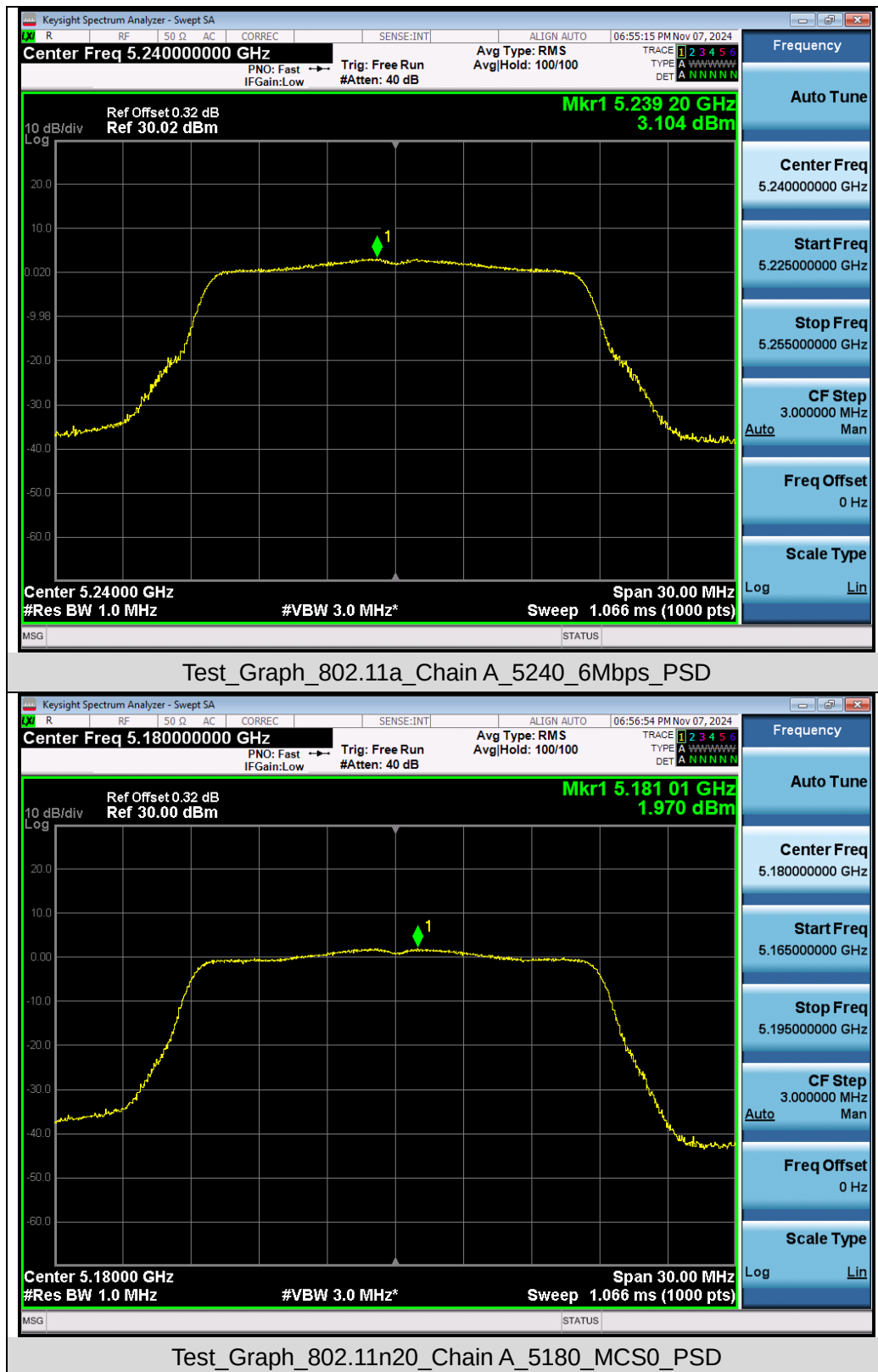


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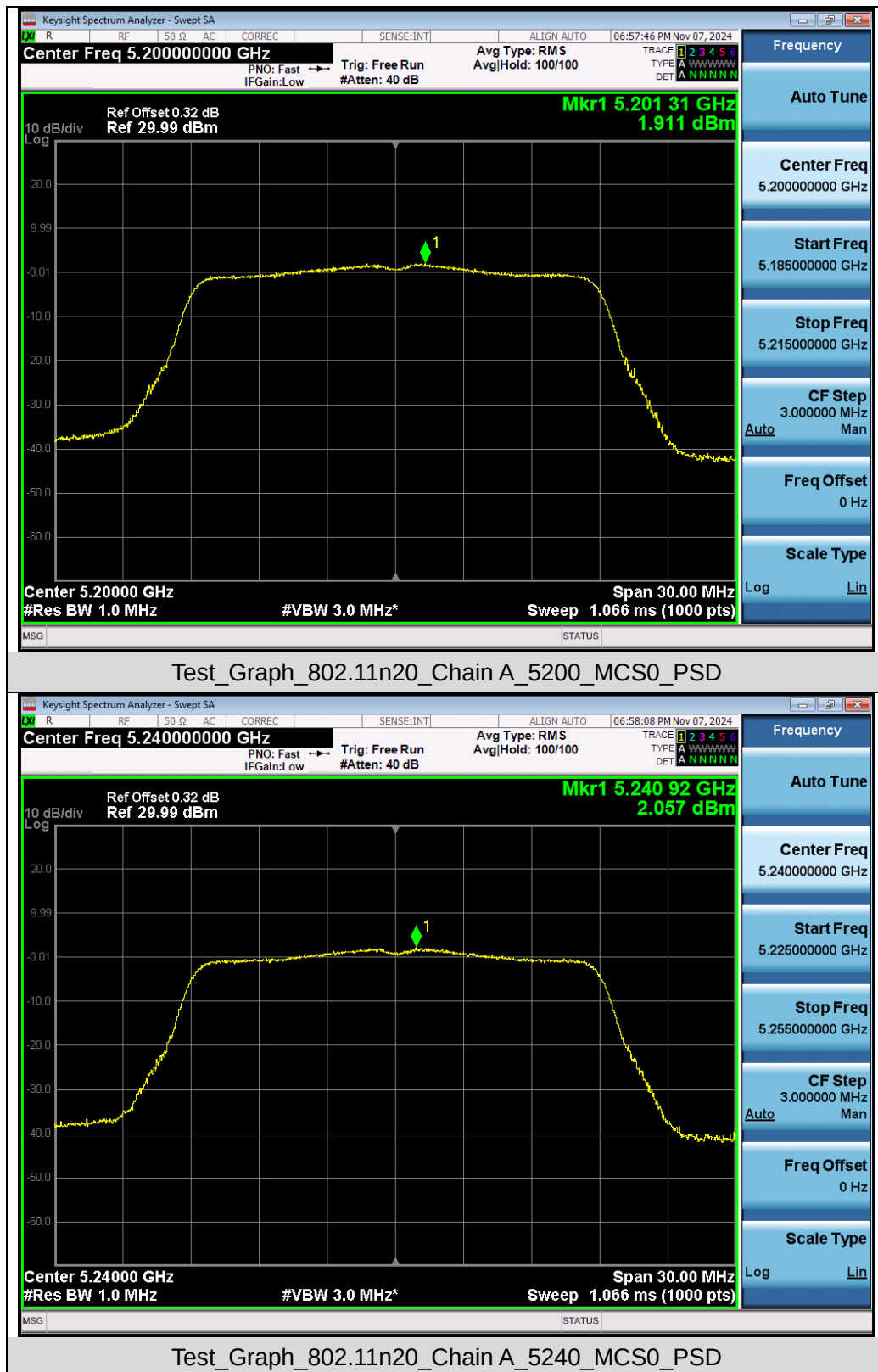
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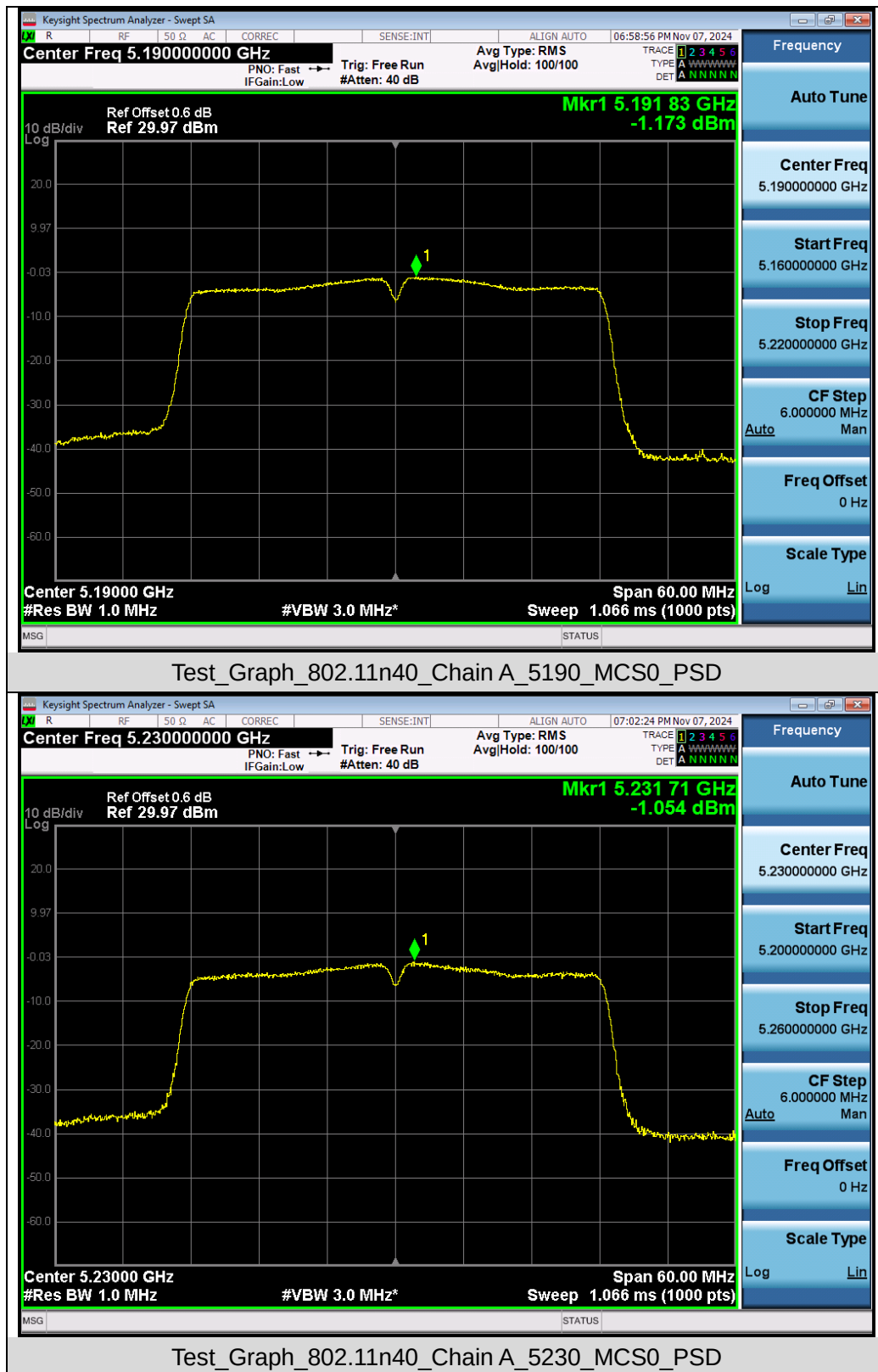
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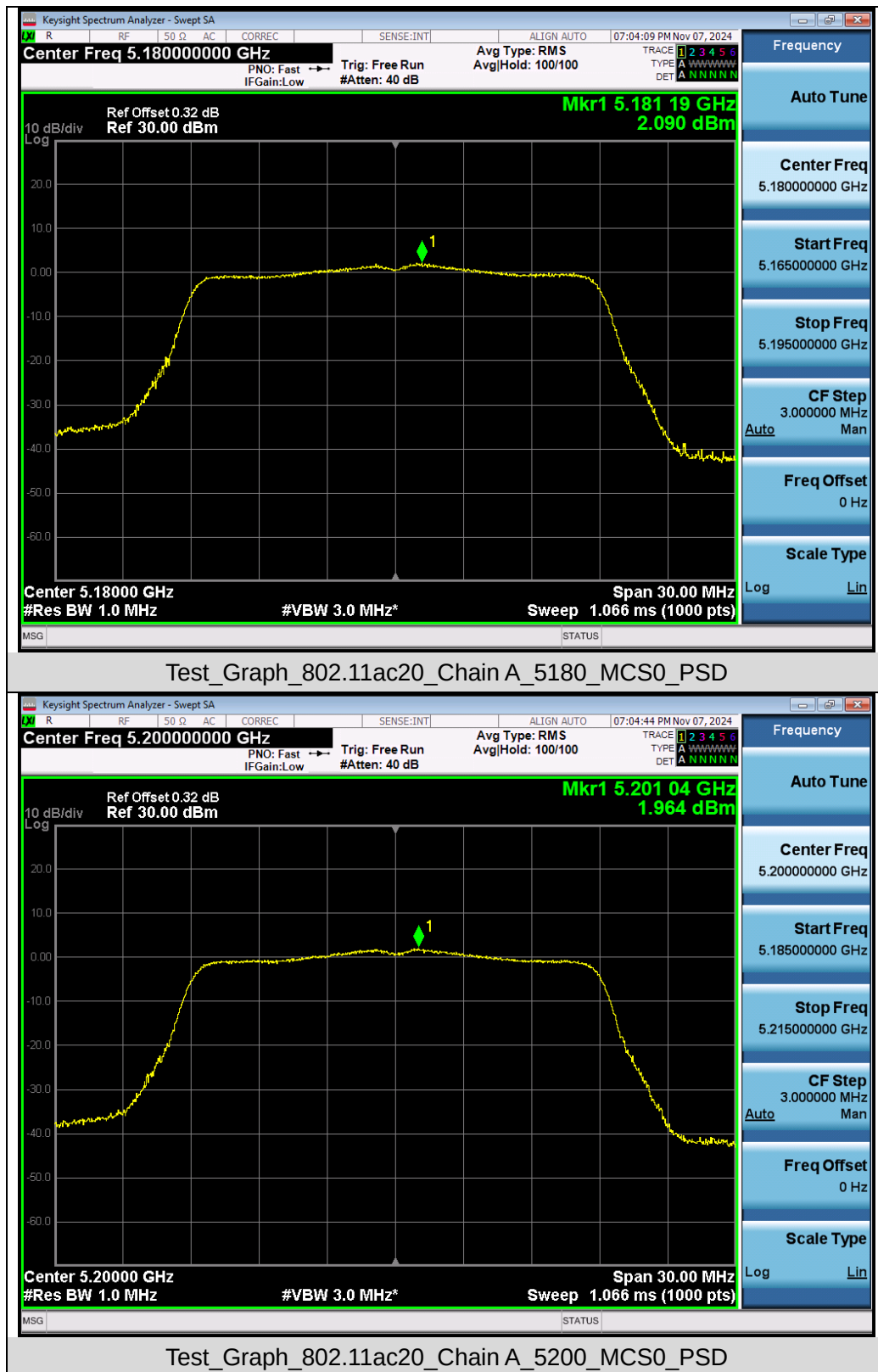
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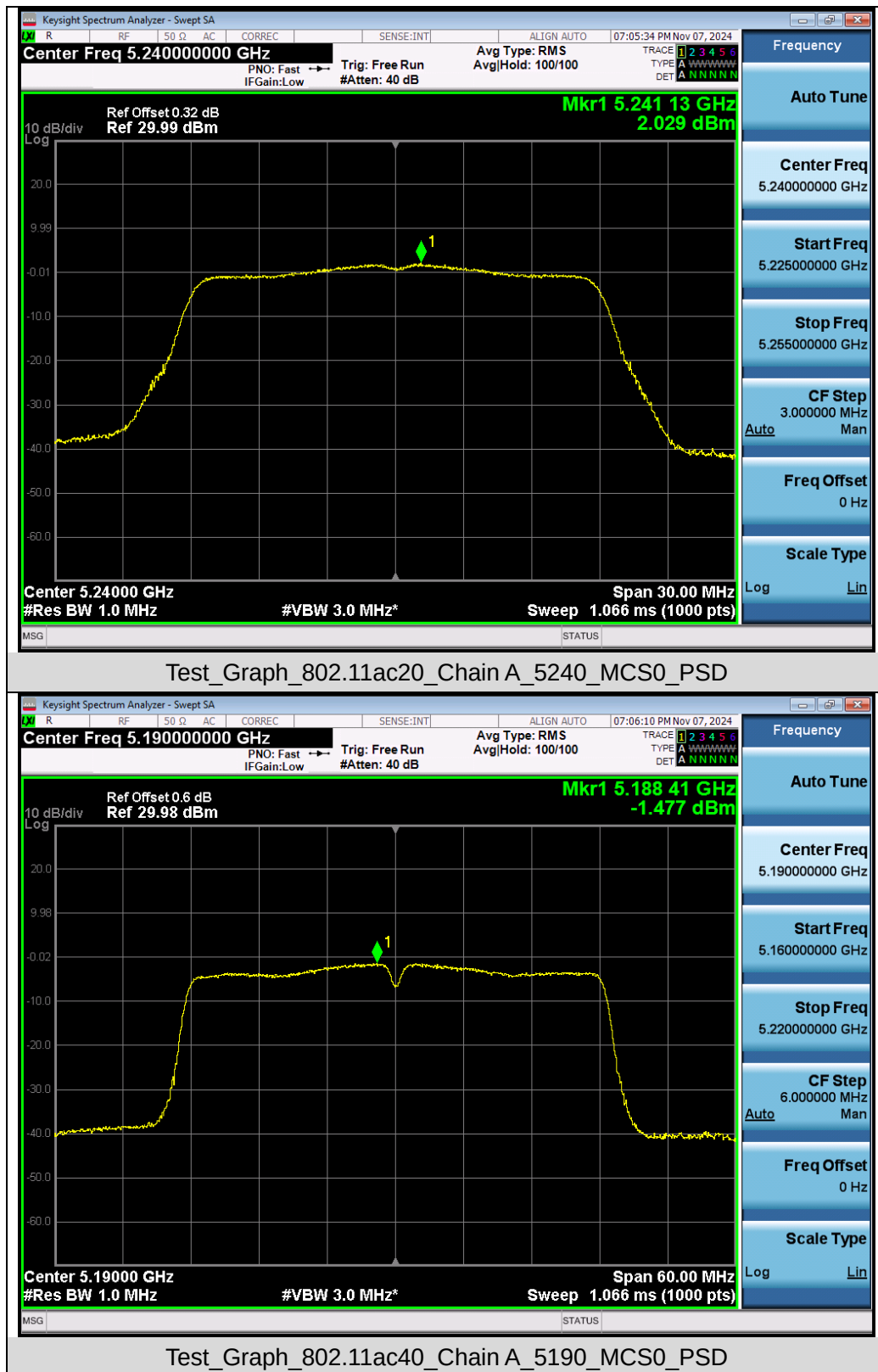
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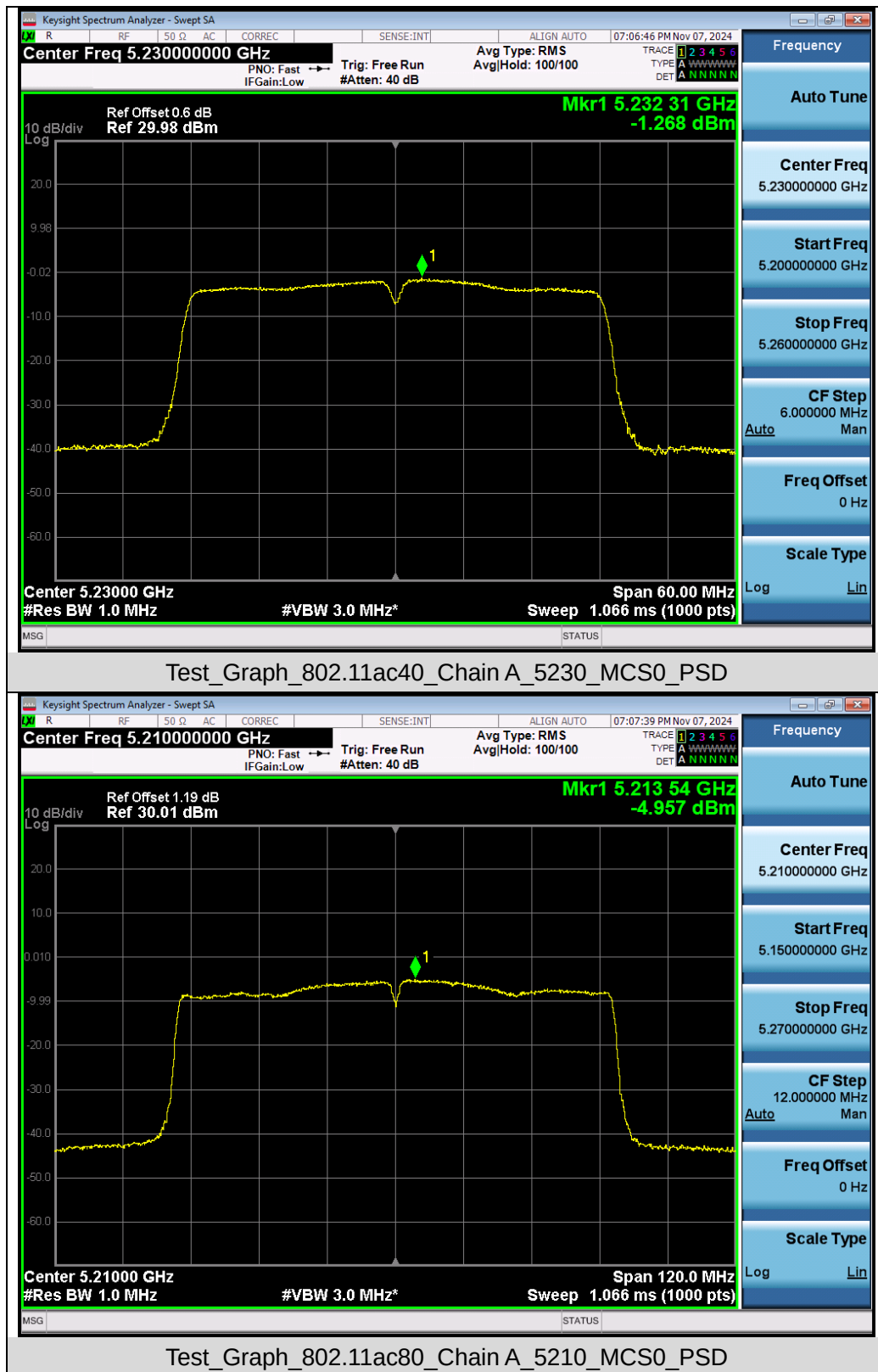
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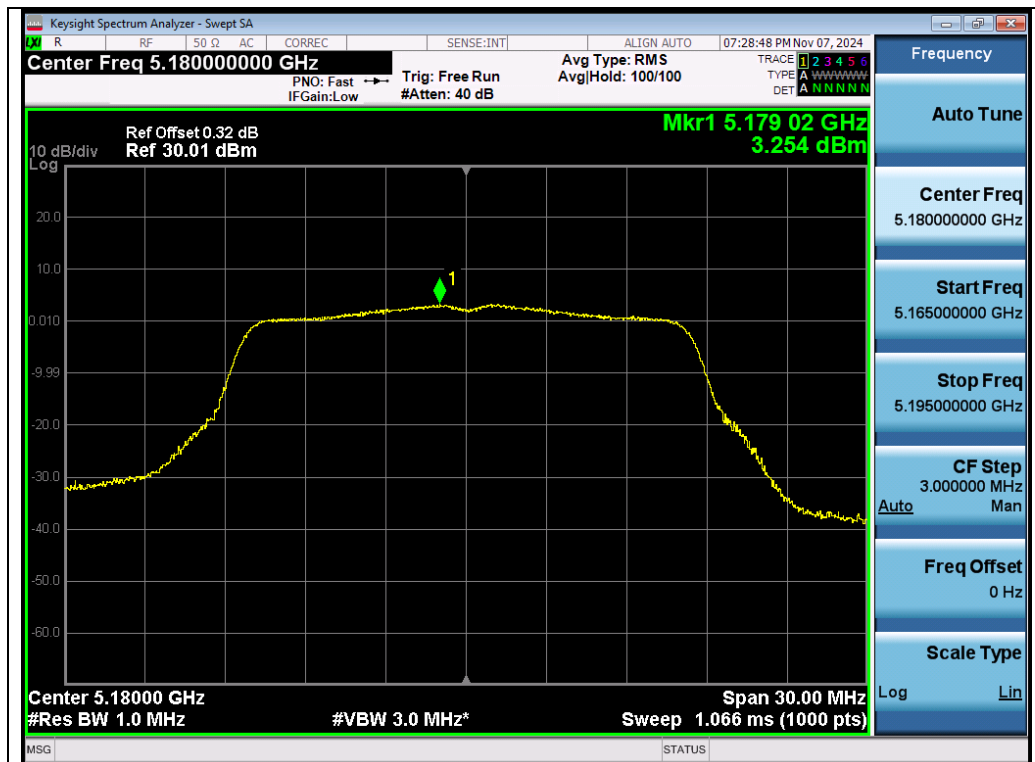


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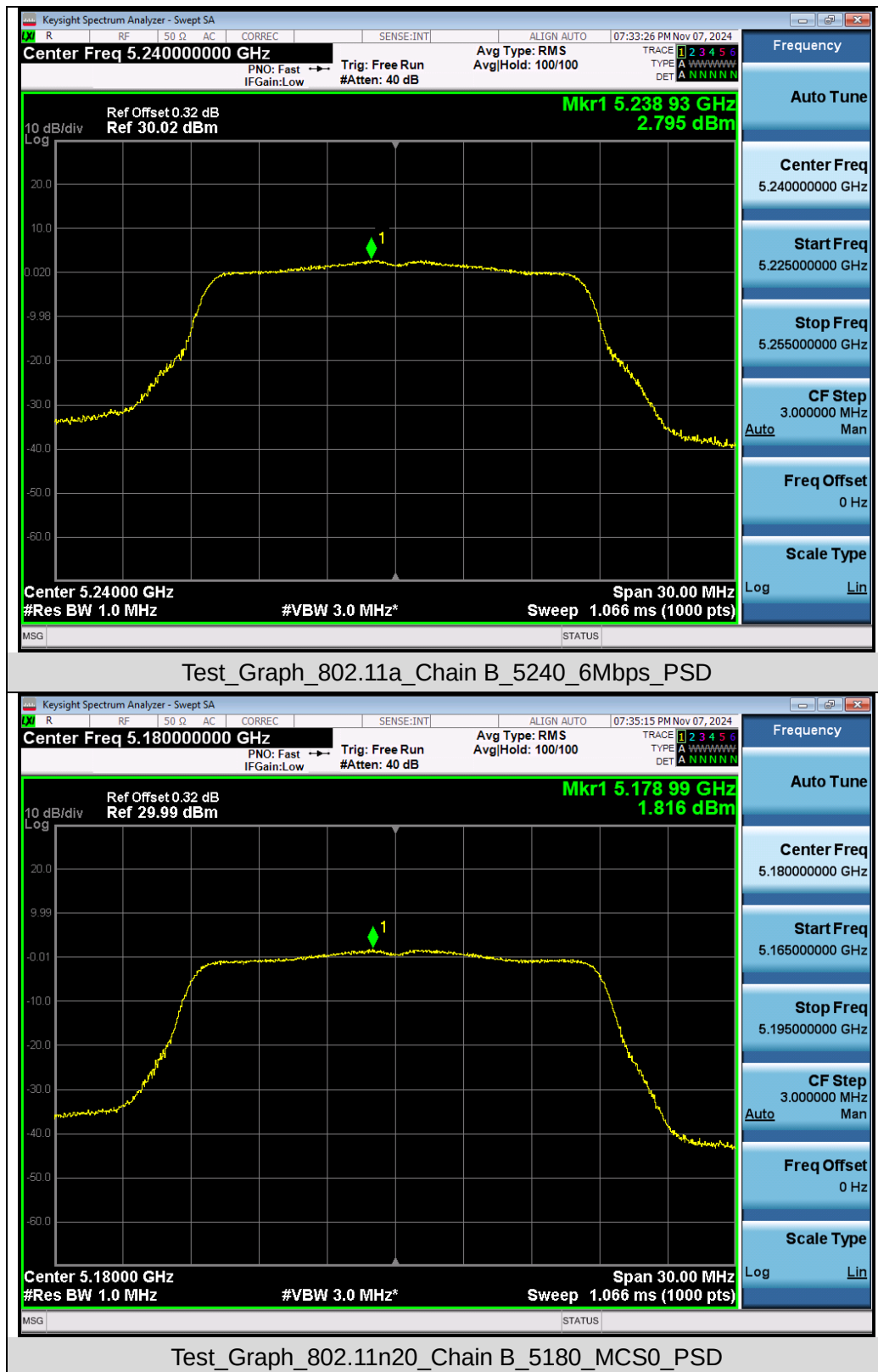
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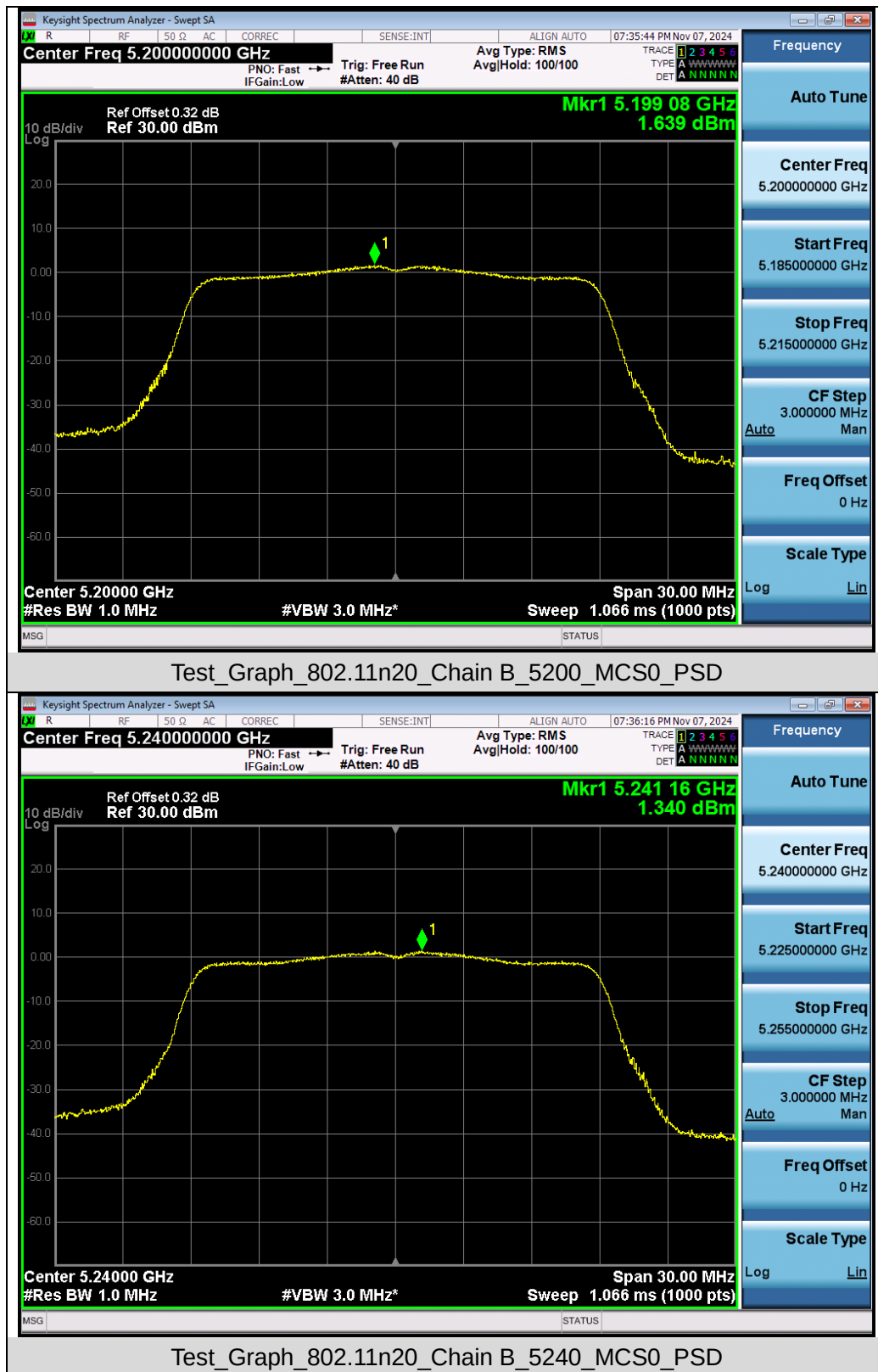
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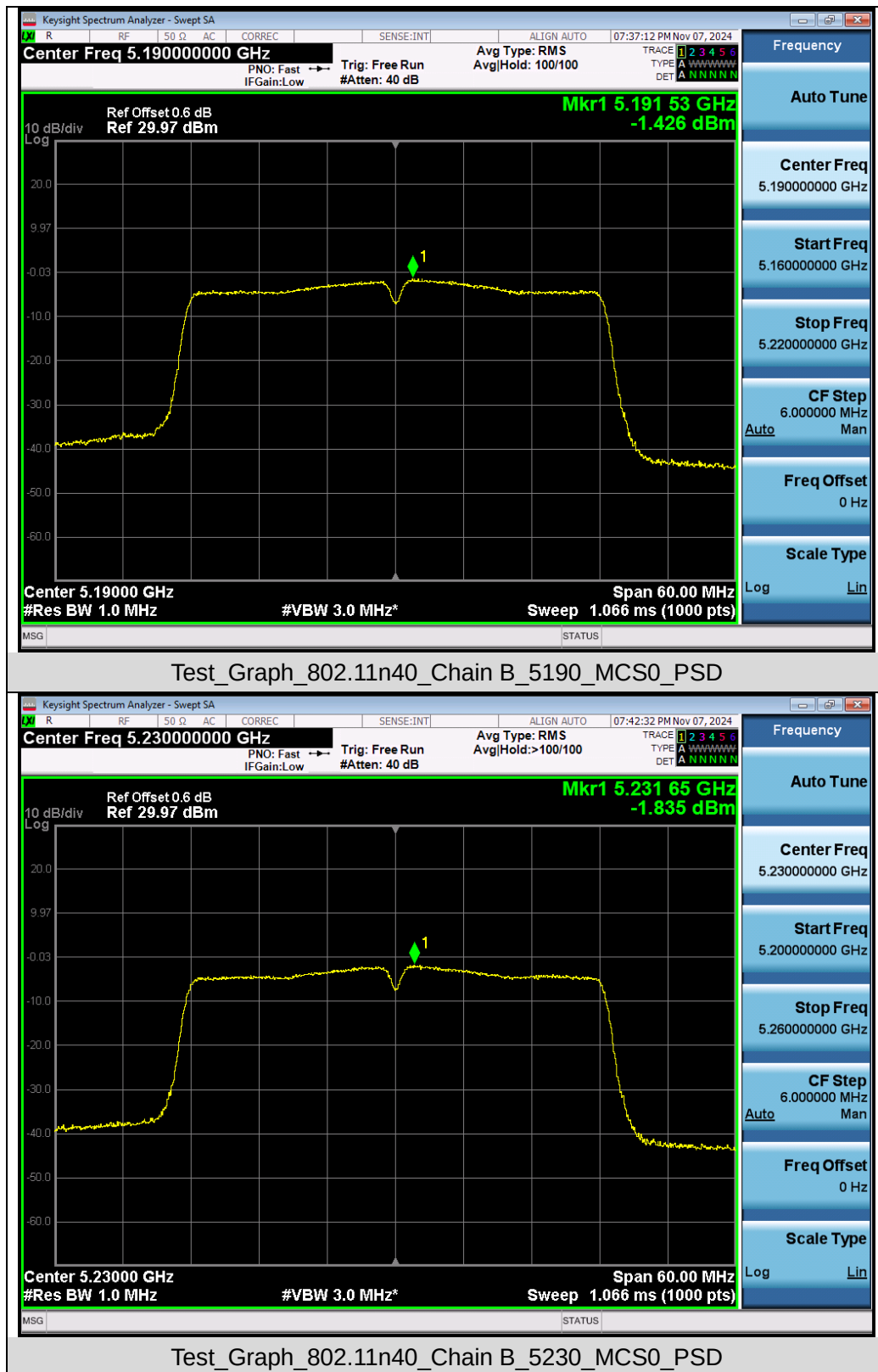
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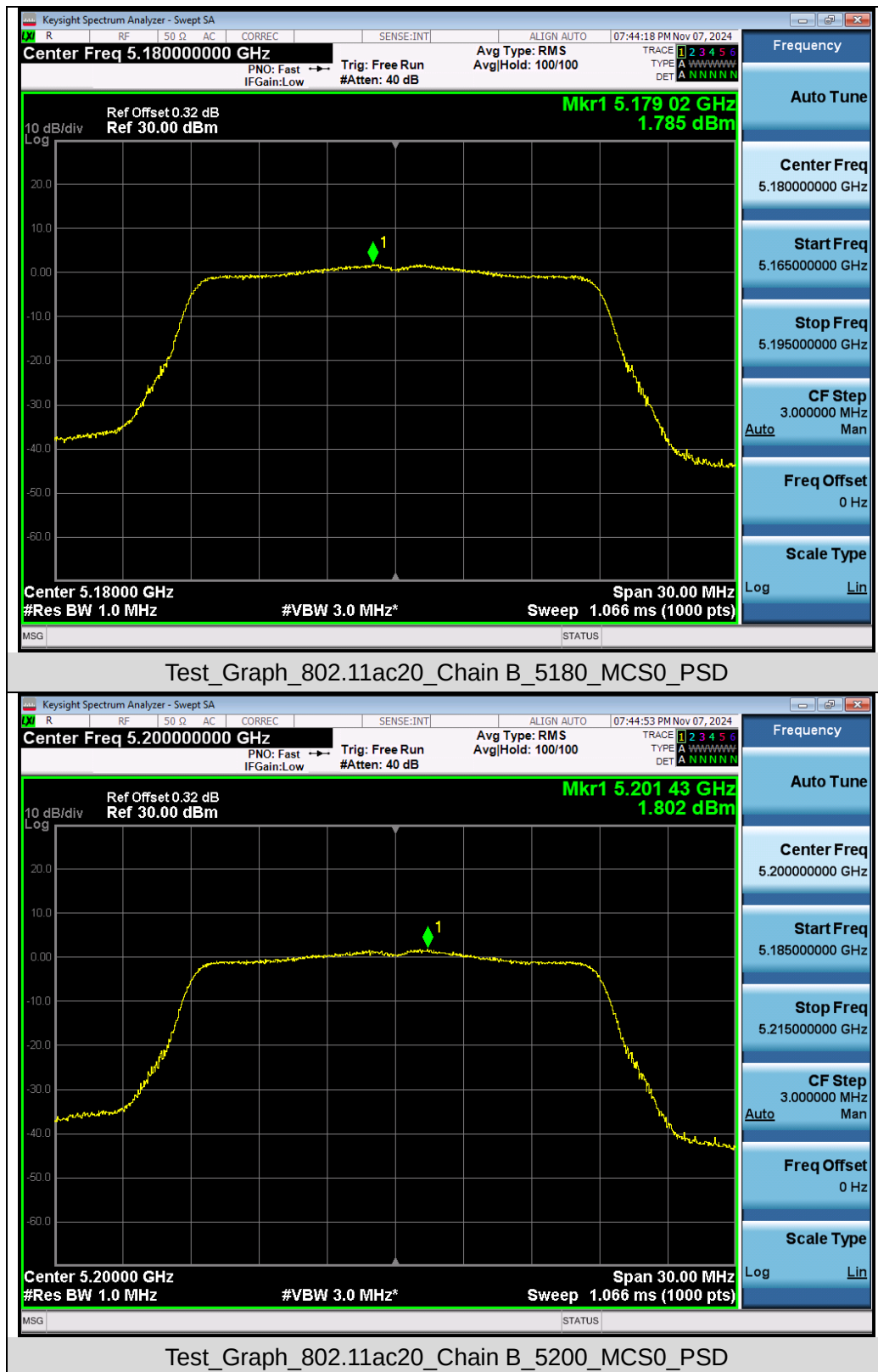
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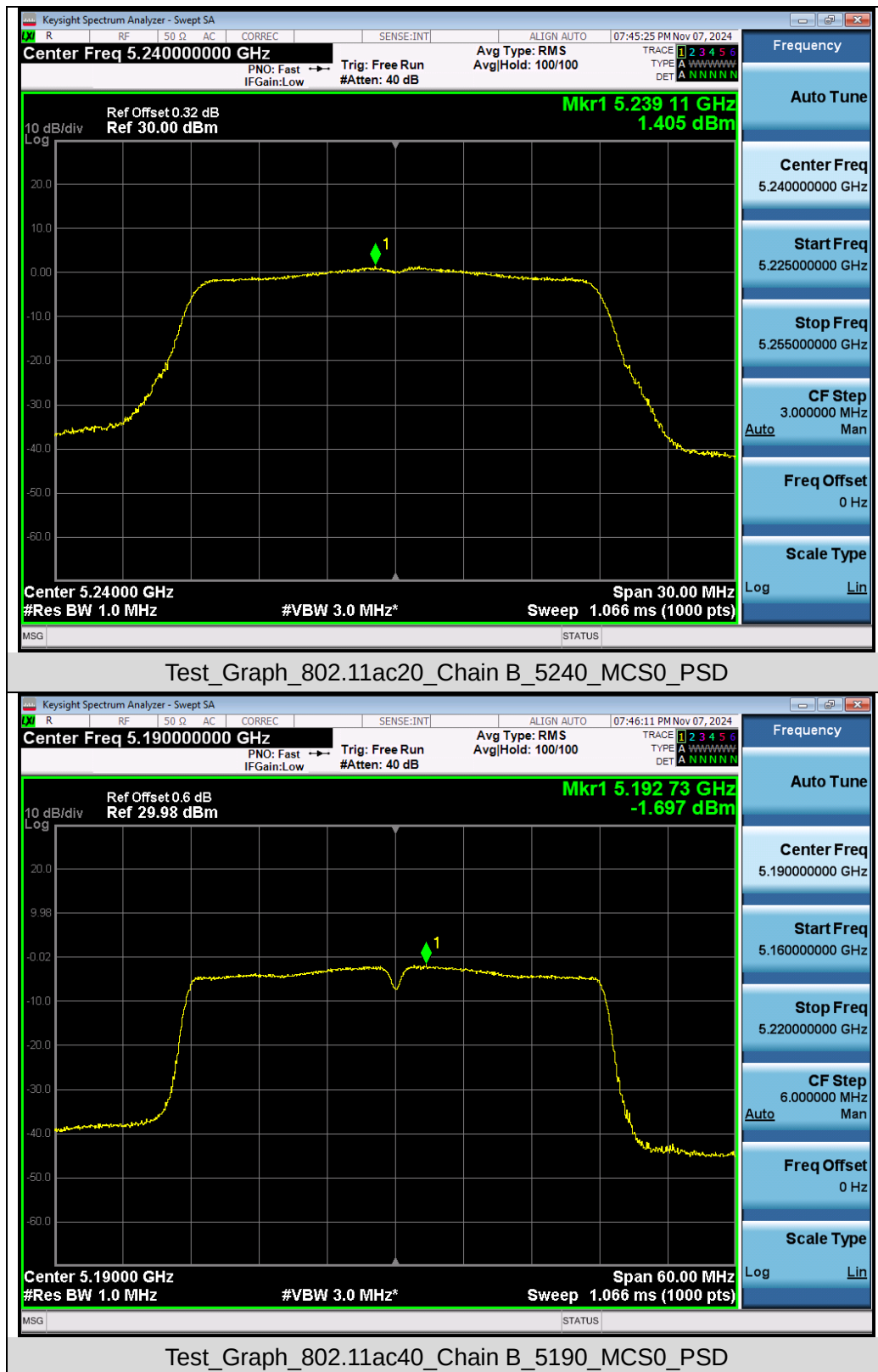
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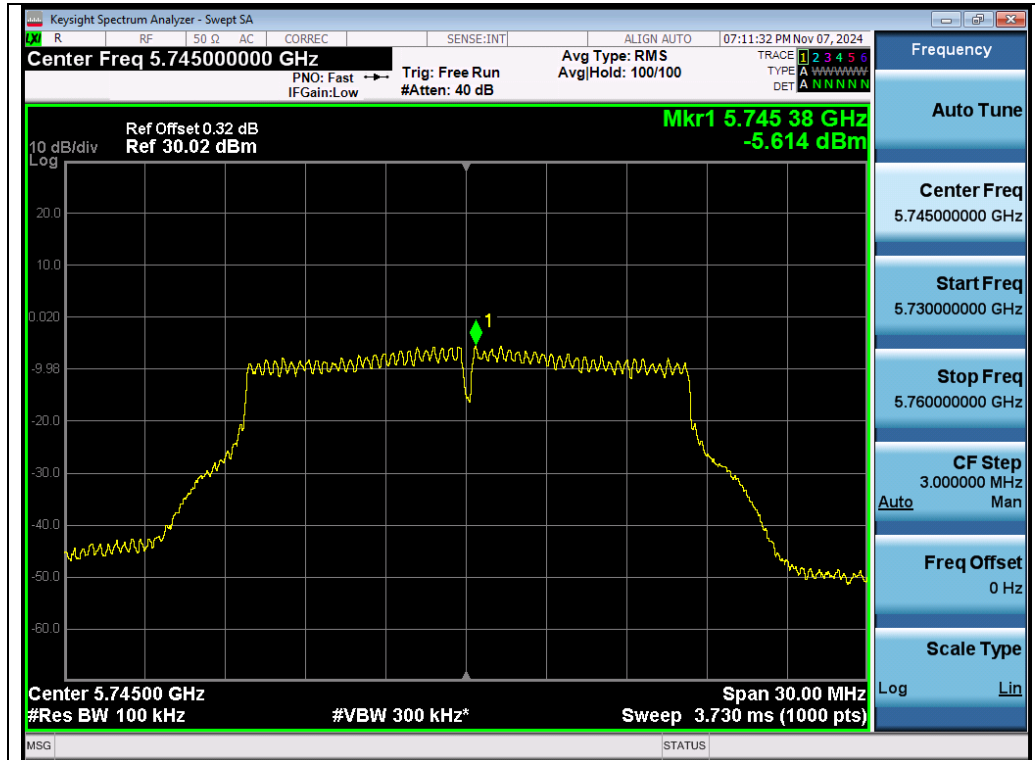
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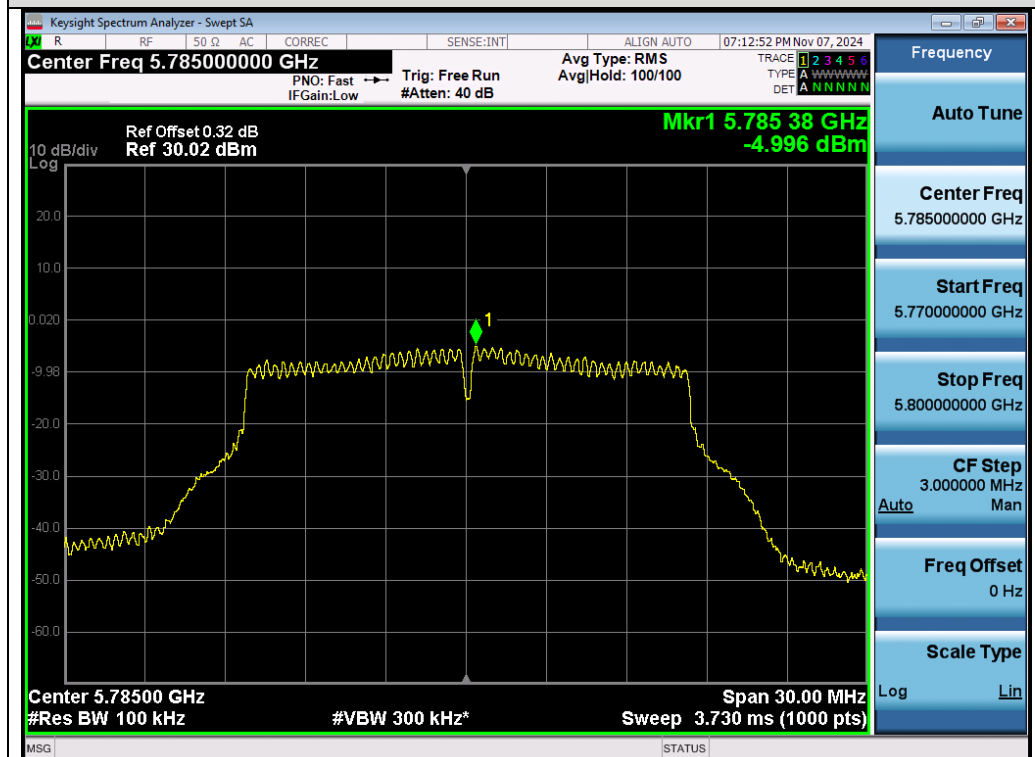


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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

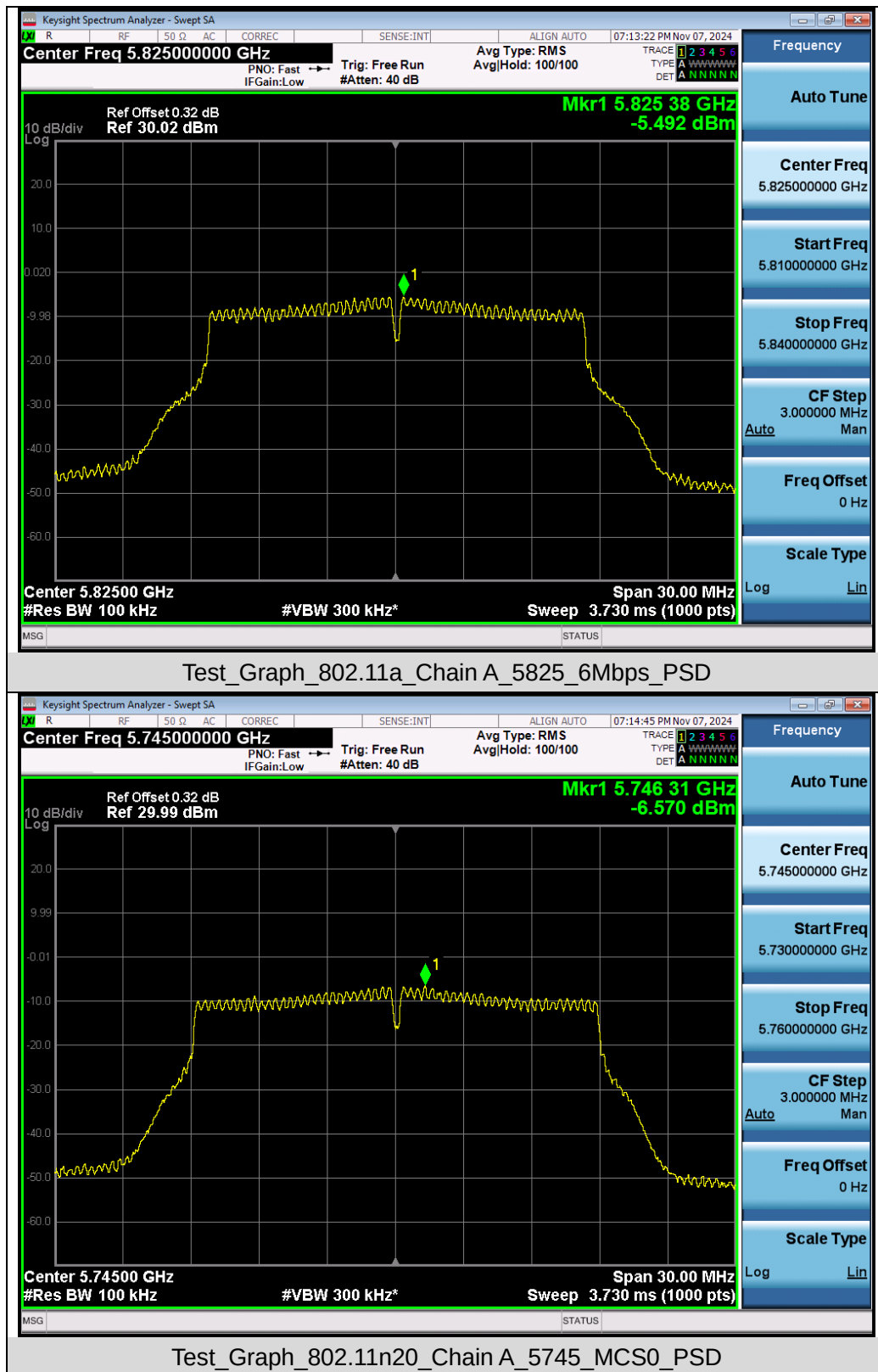


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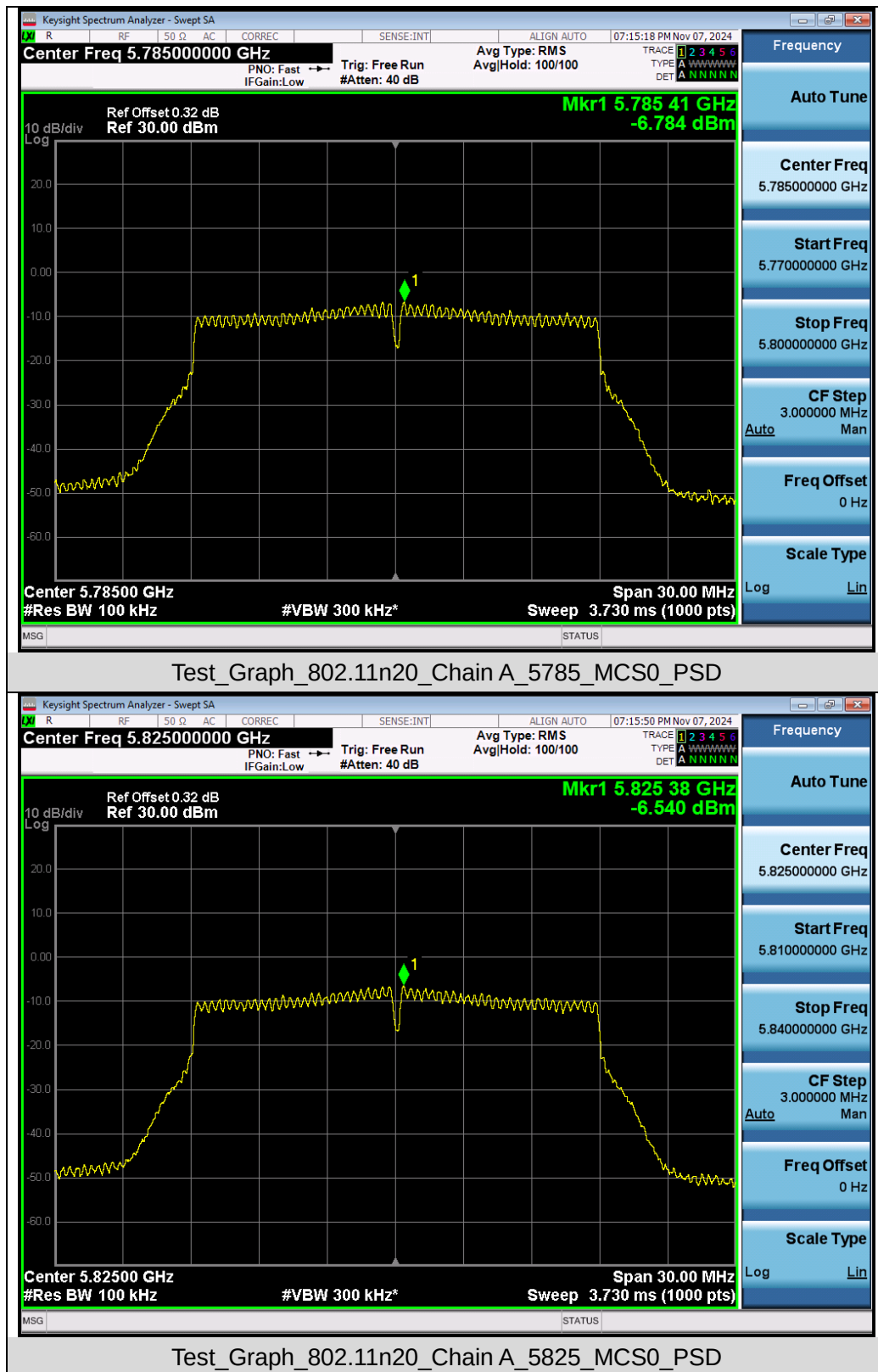


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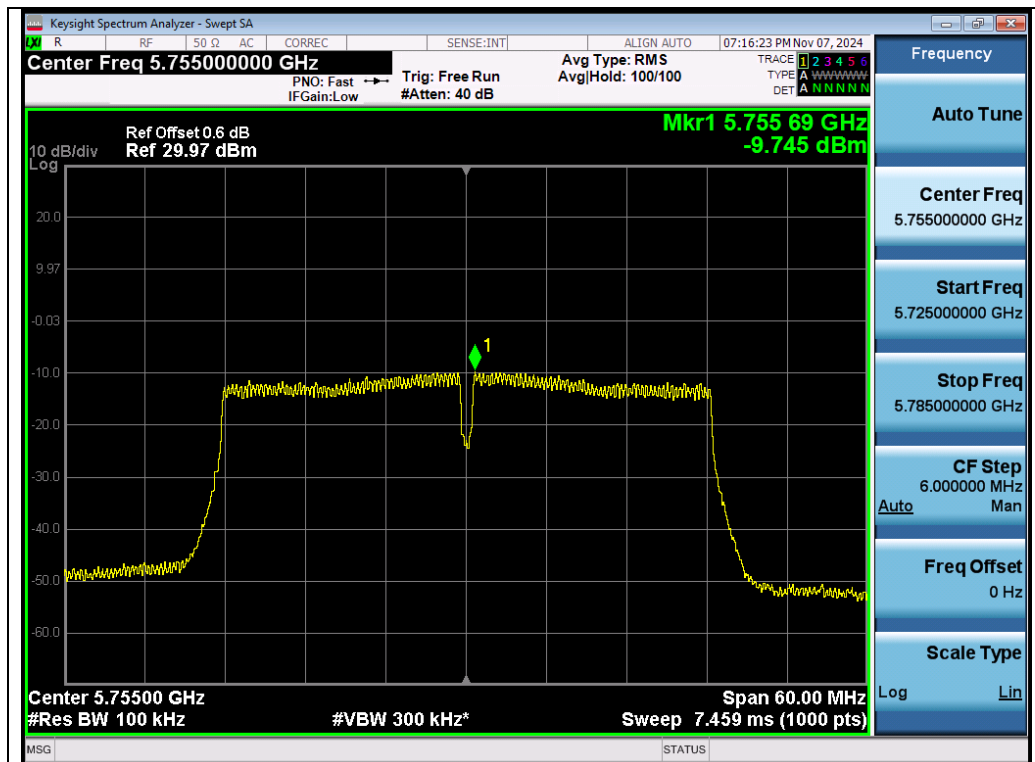


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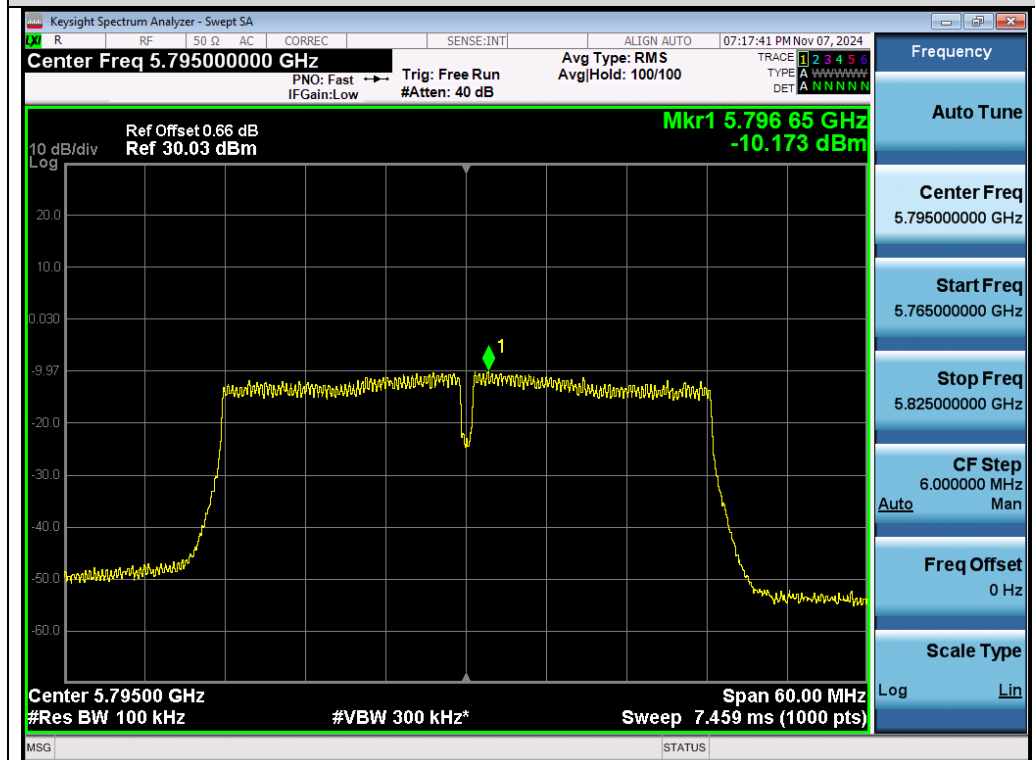


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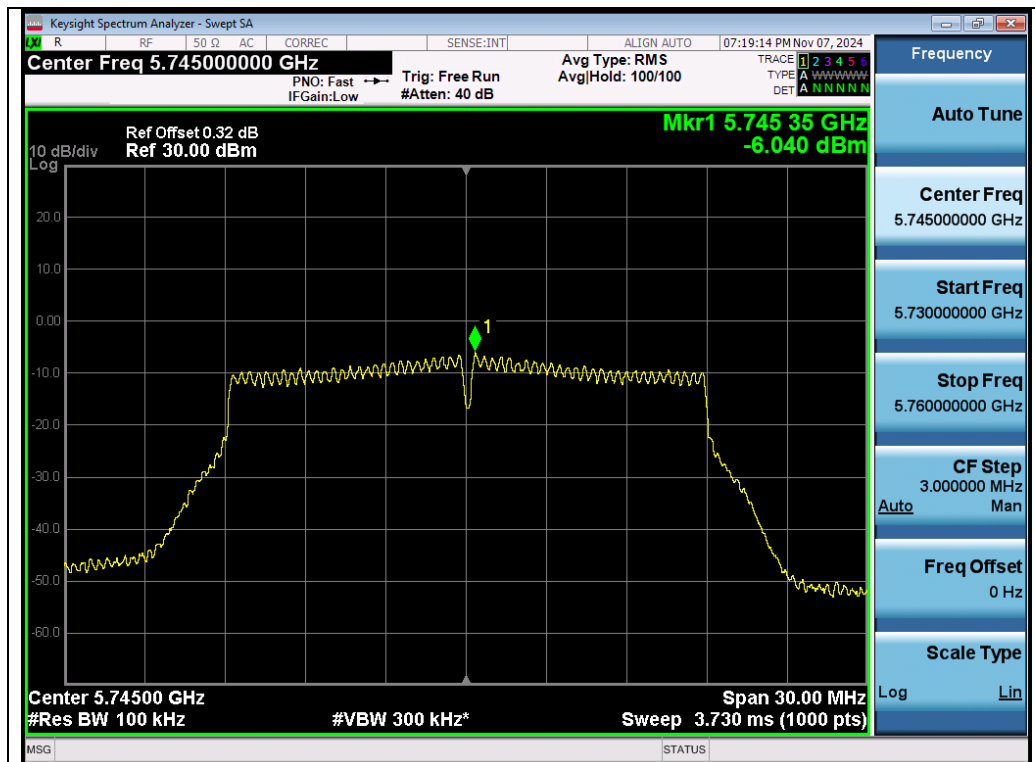
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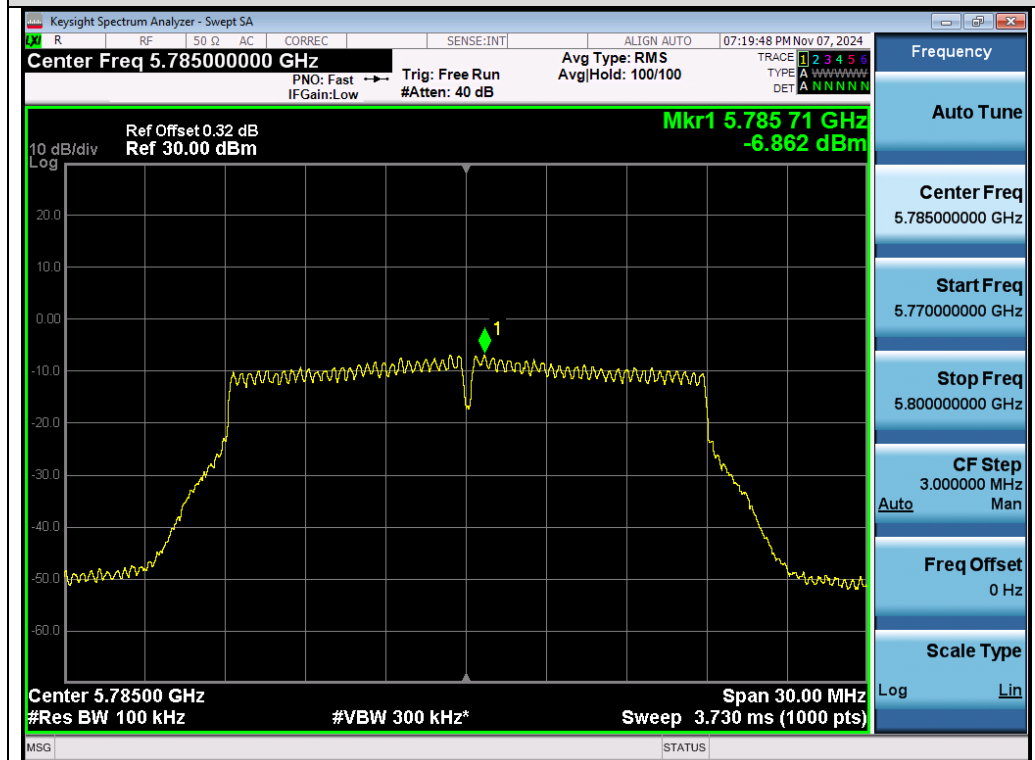
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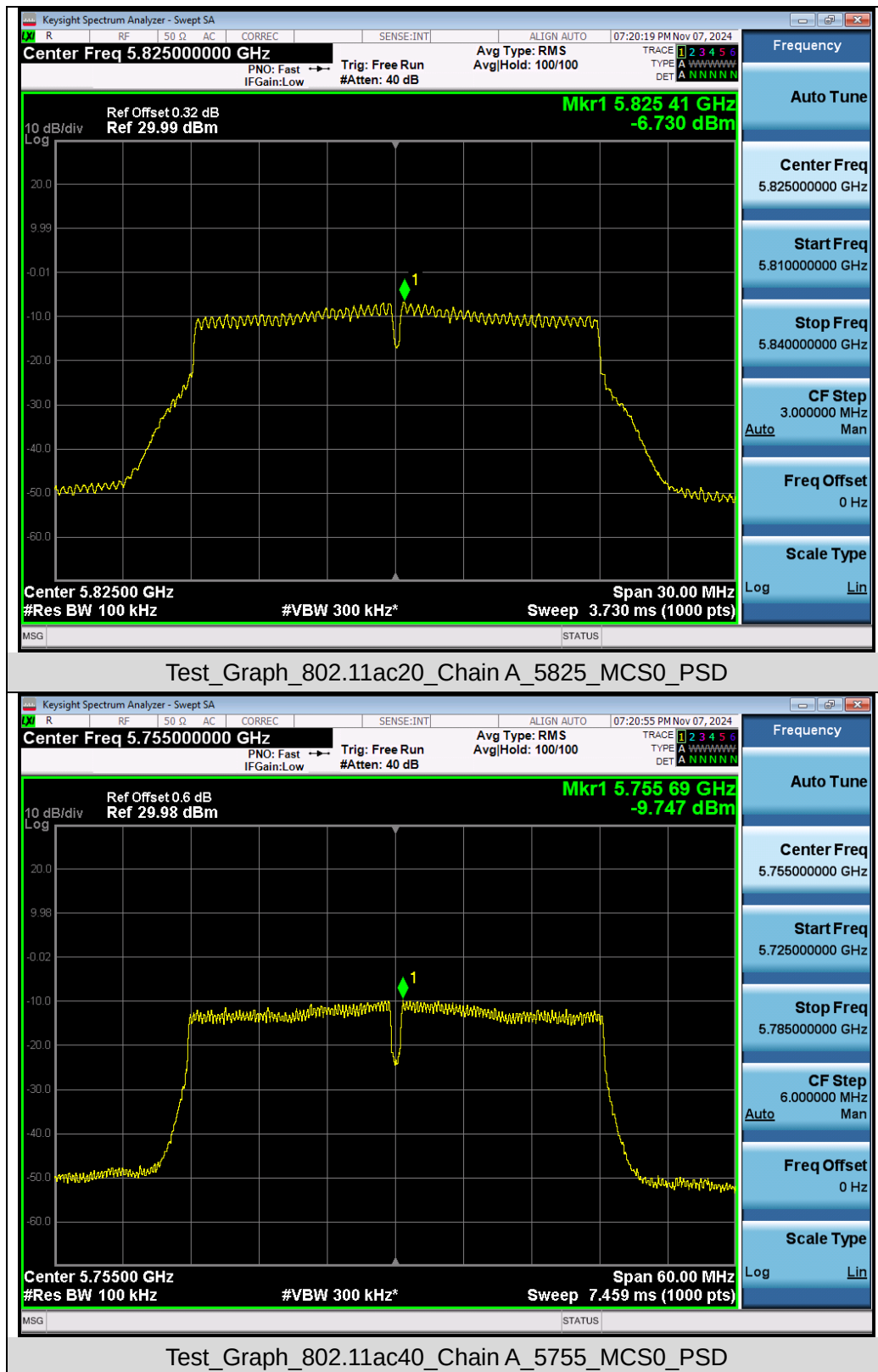
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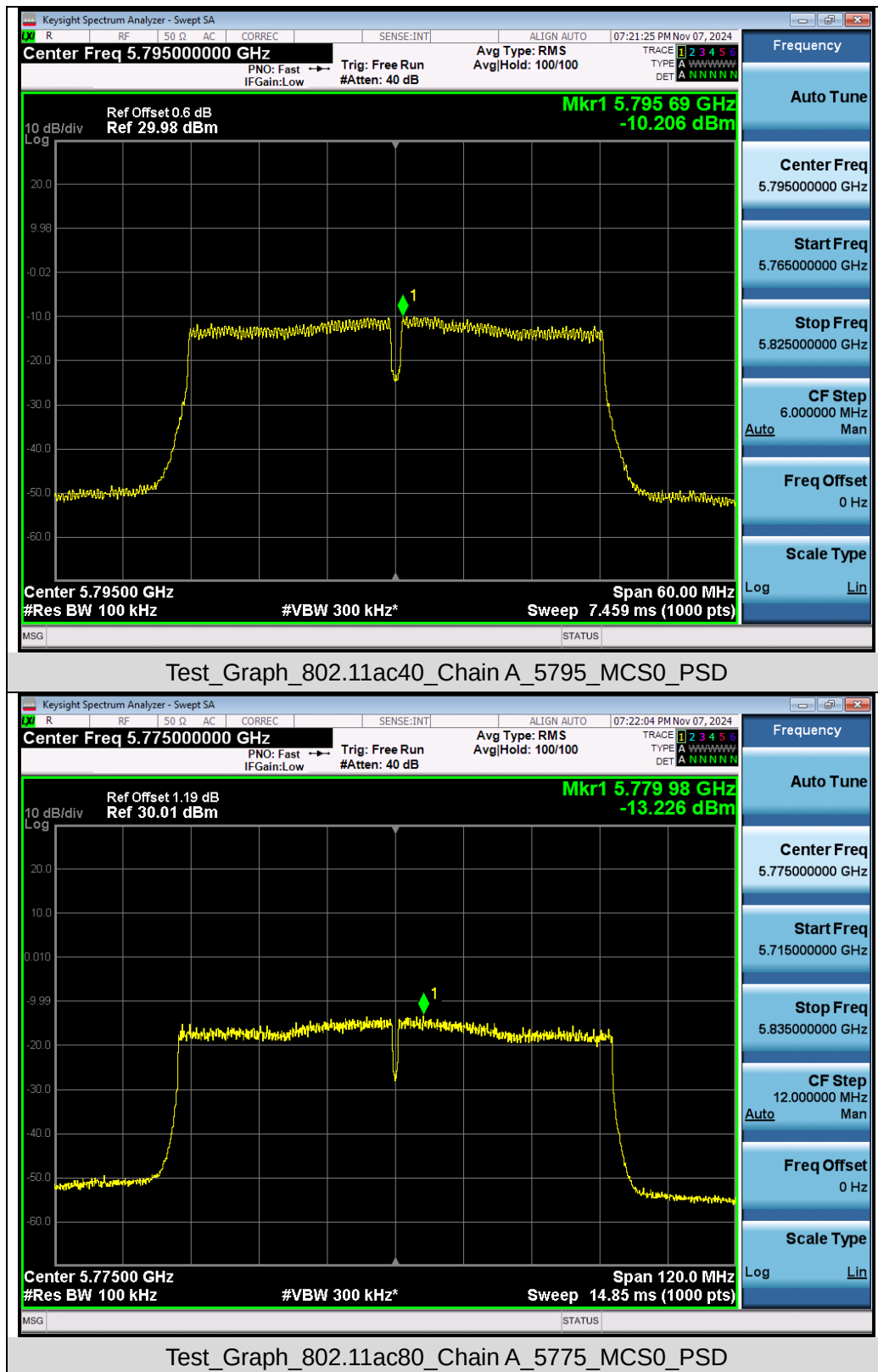
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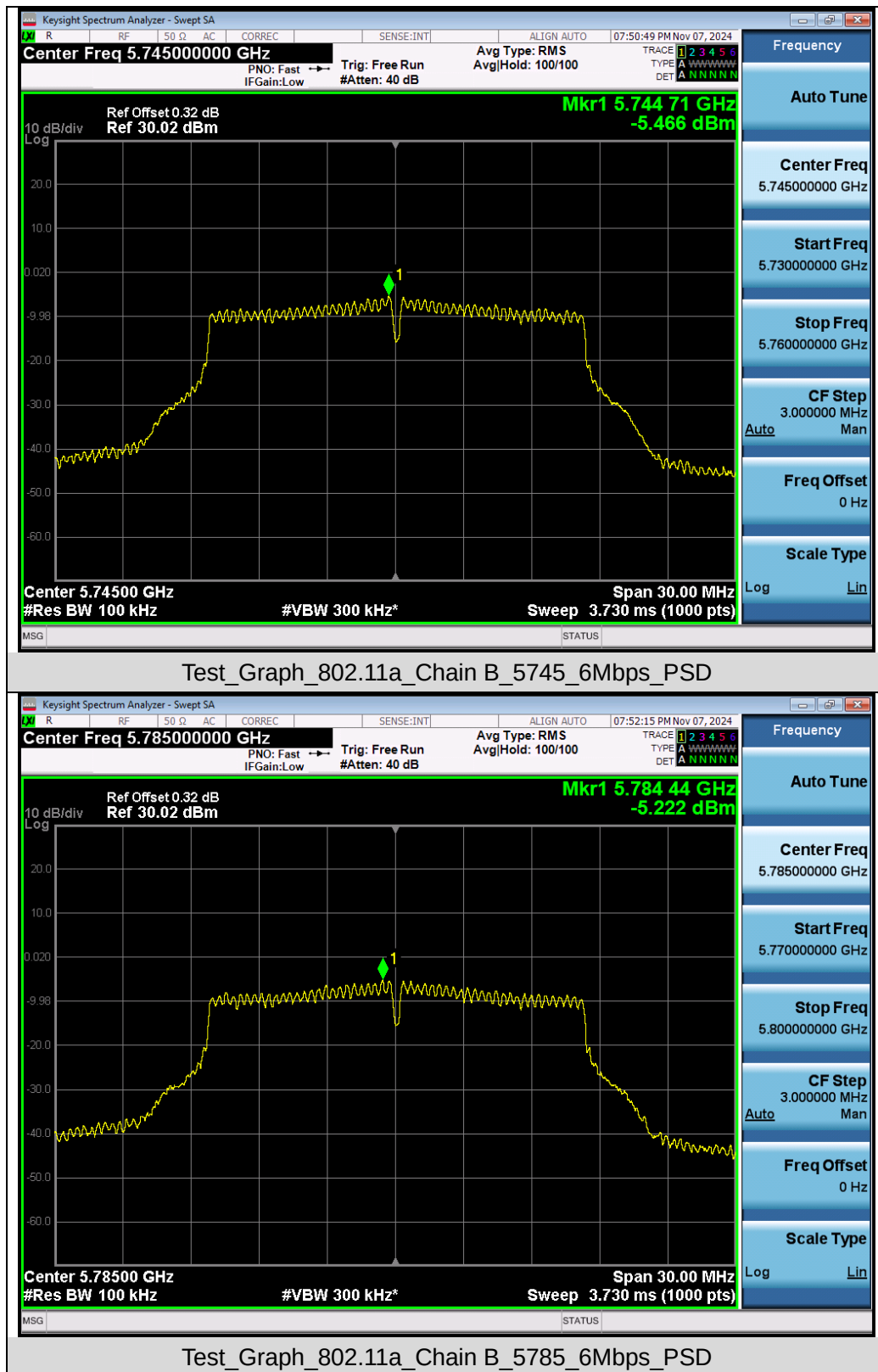
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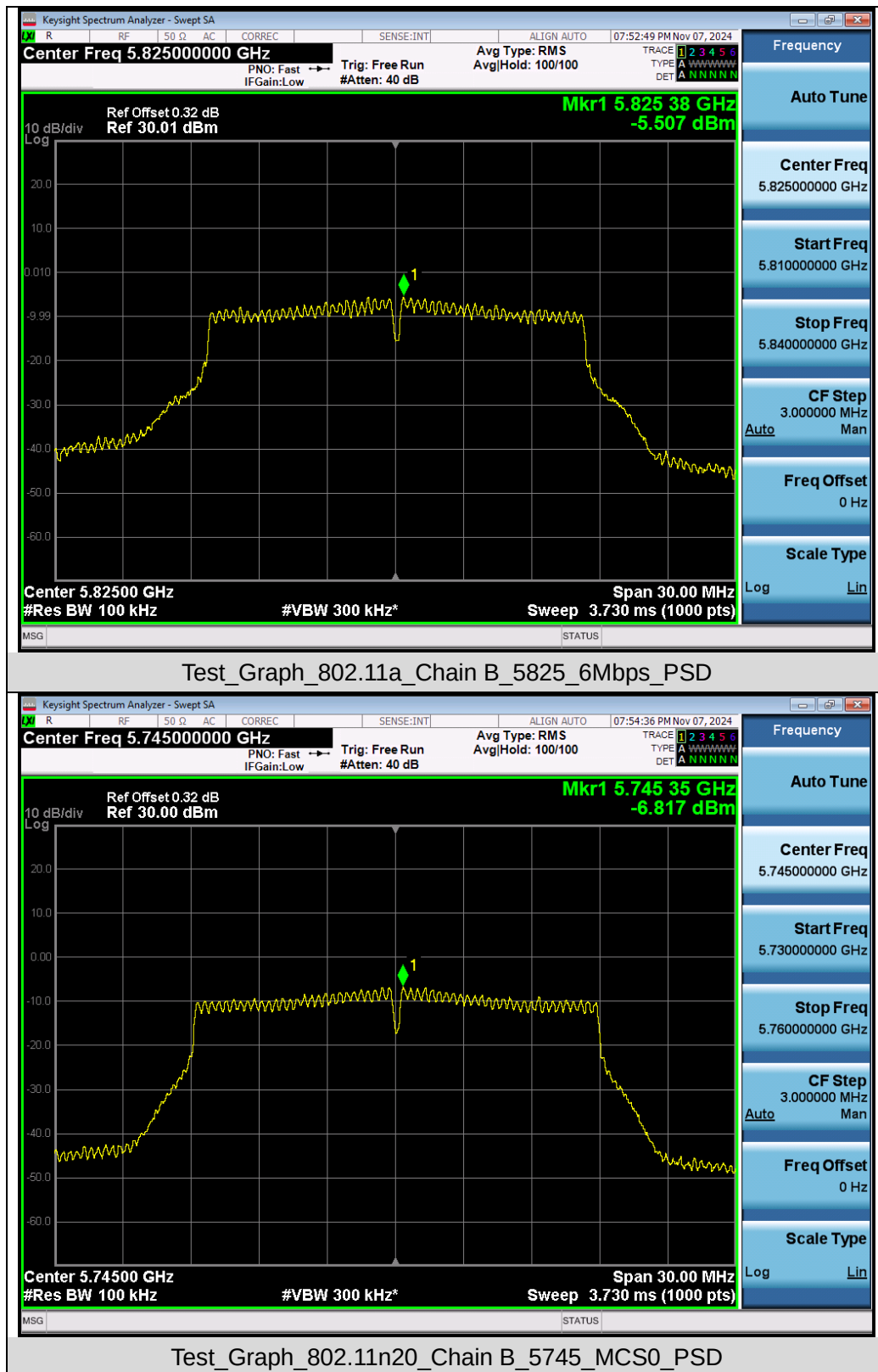
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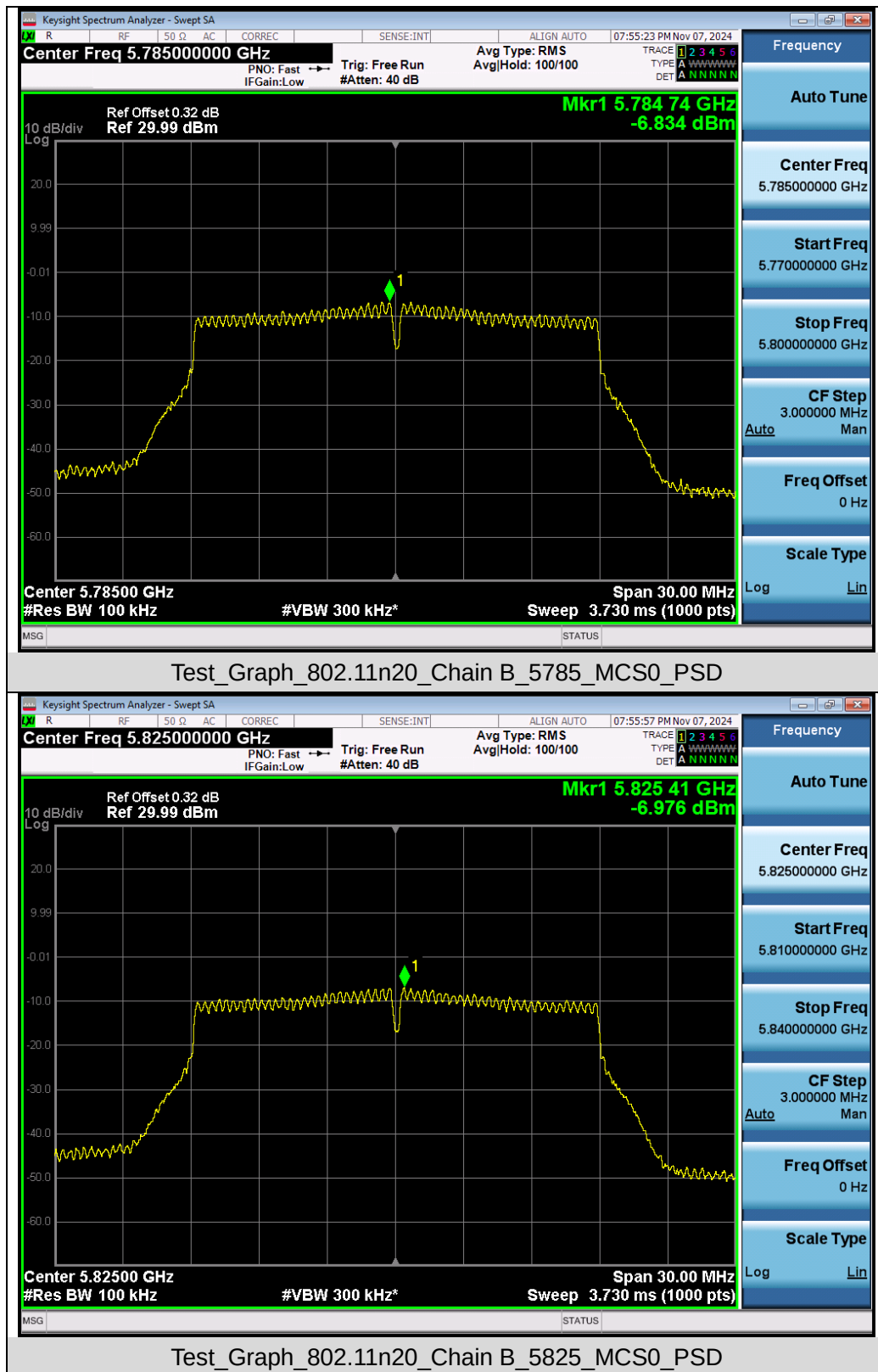


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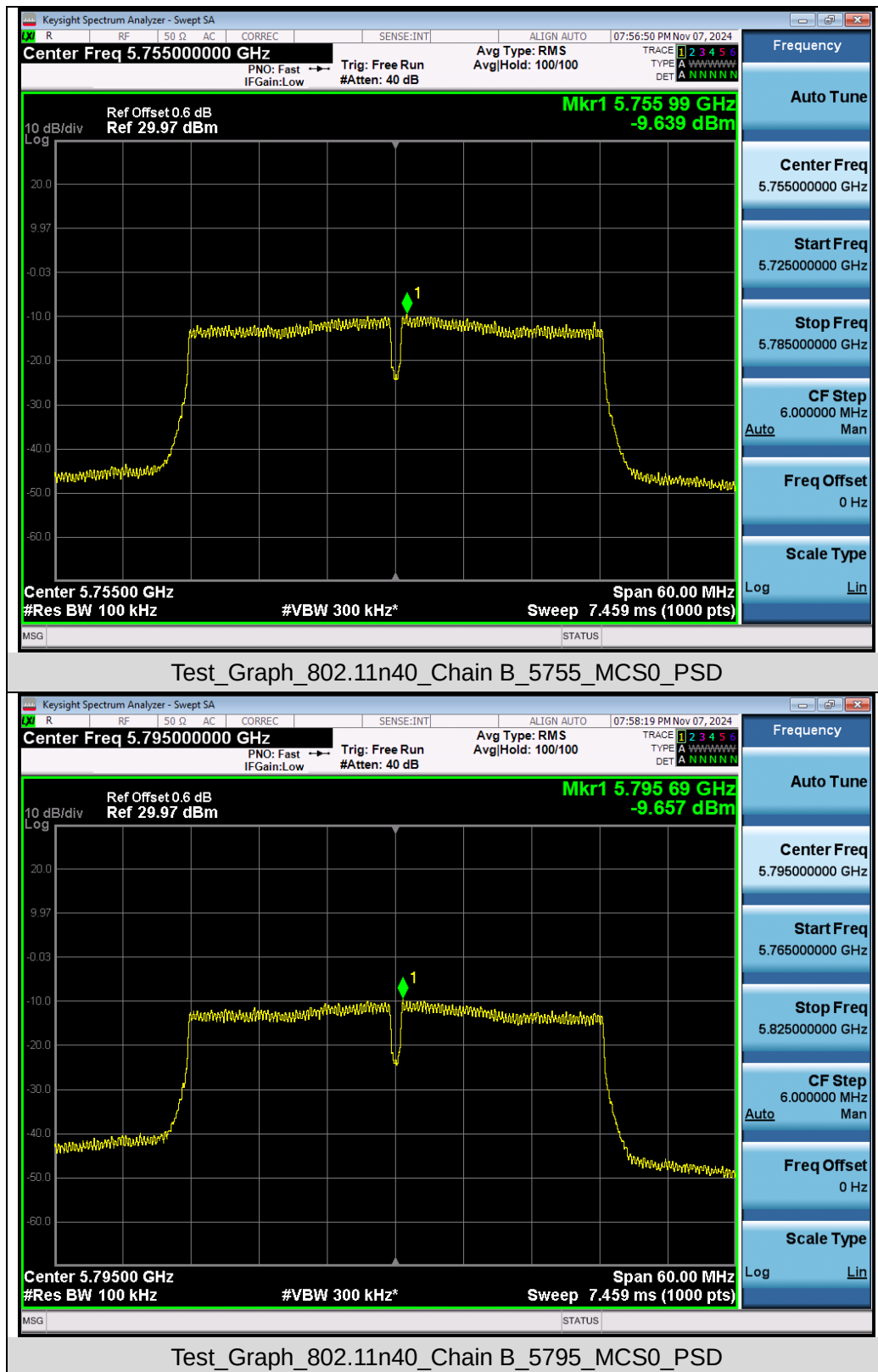


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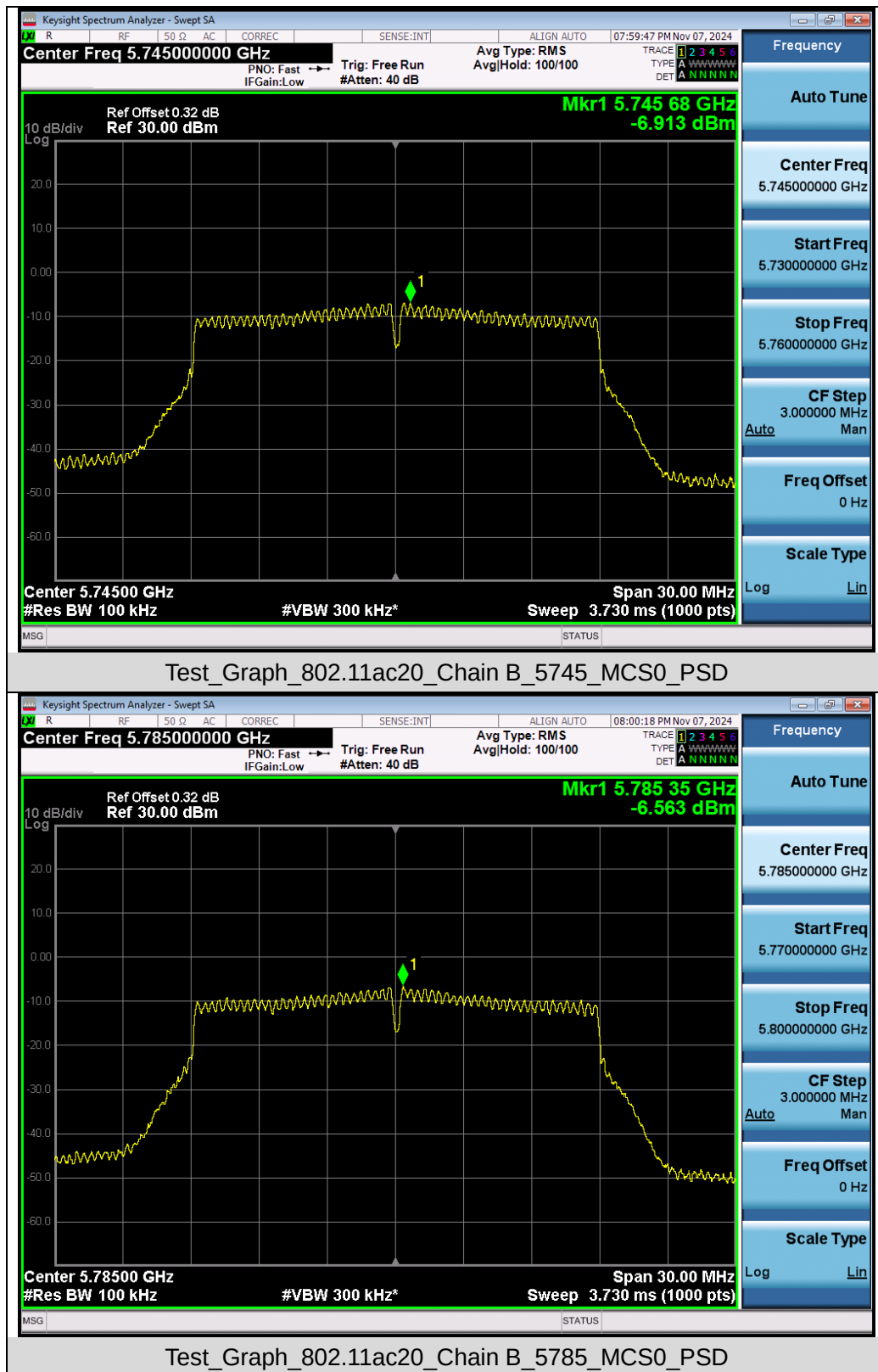
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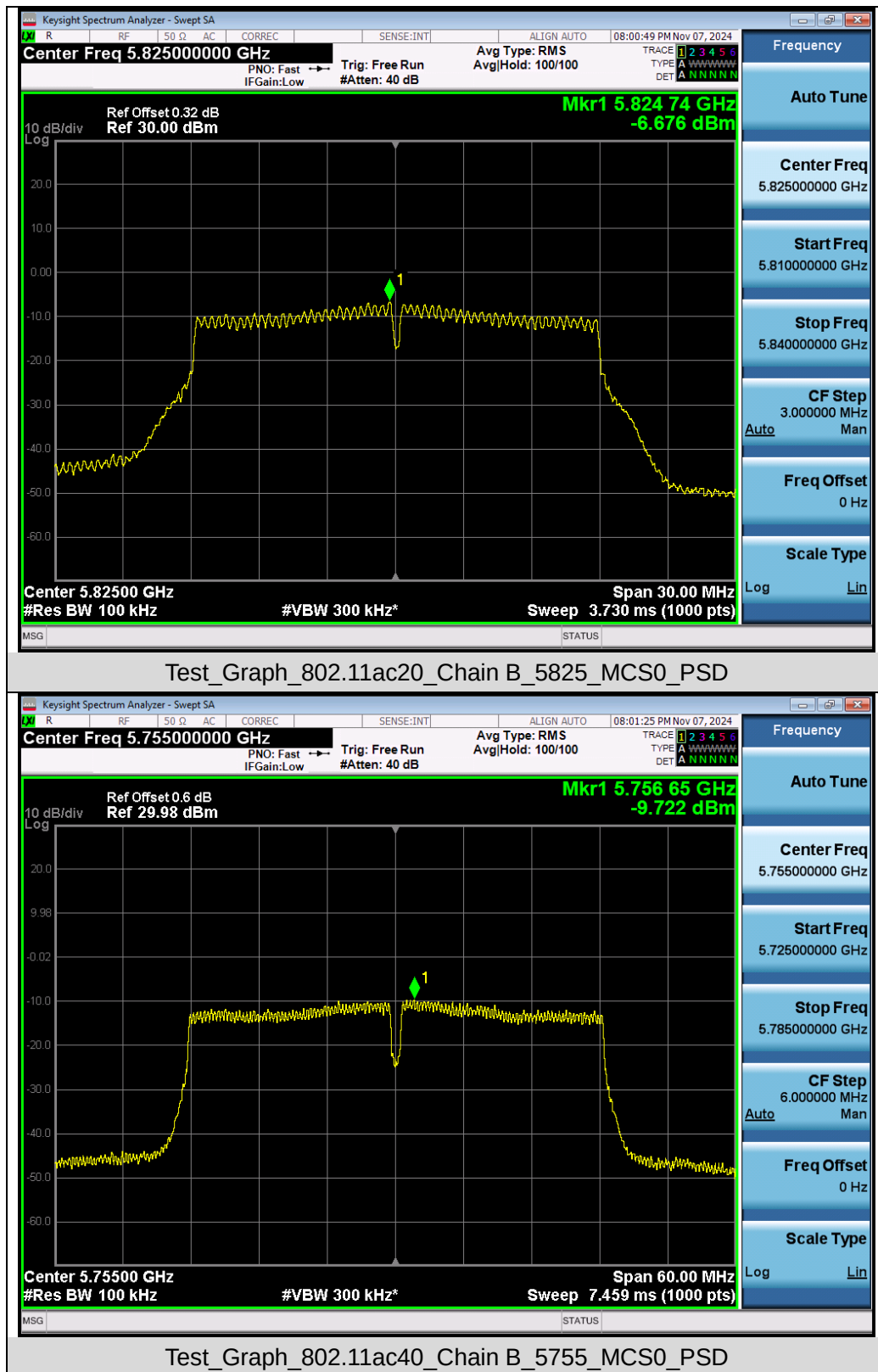
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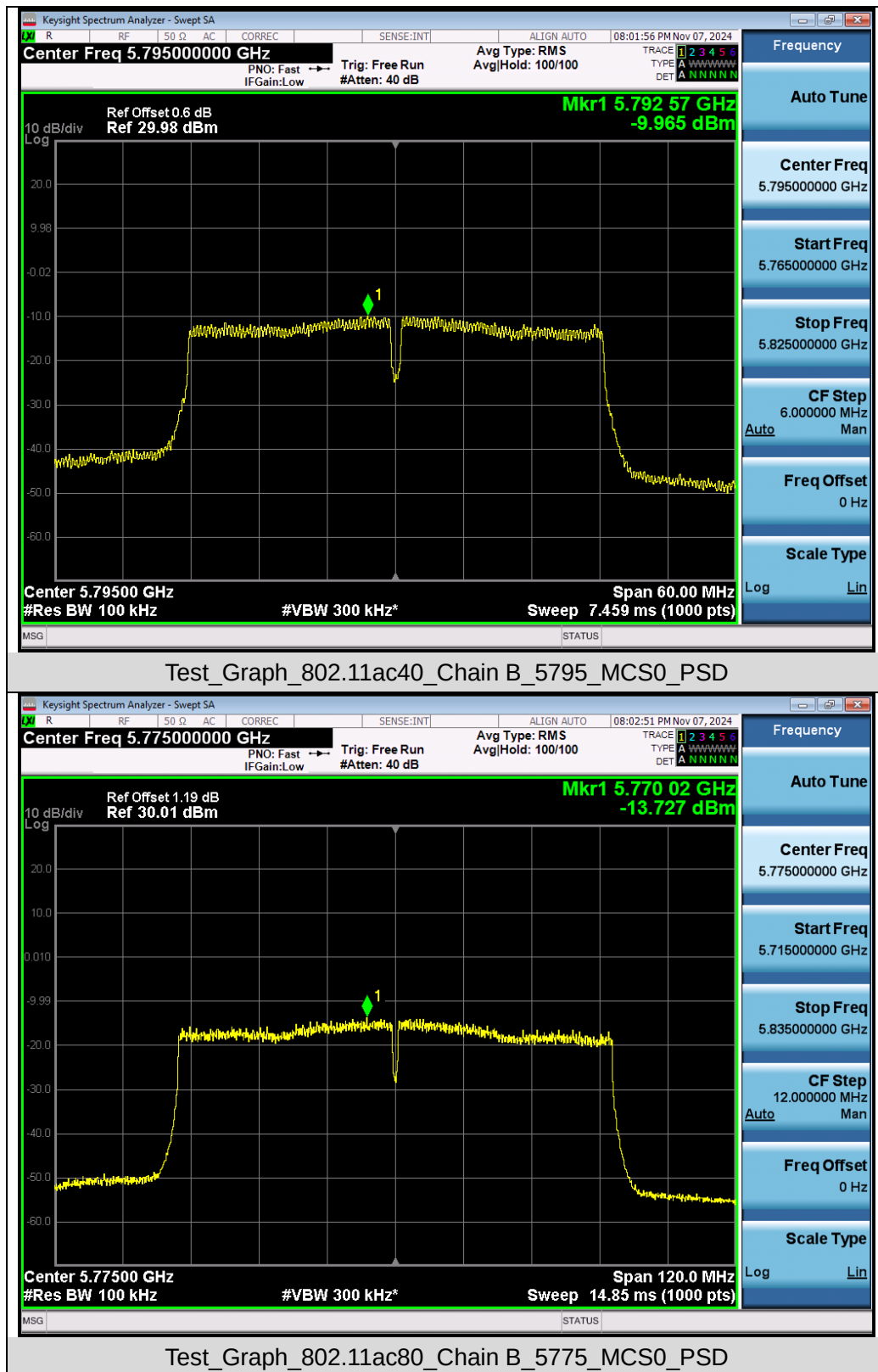
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10. Conducted Band Edge and Out-of-Band Emissions

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: -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:

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

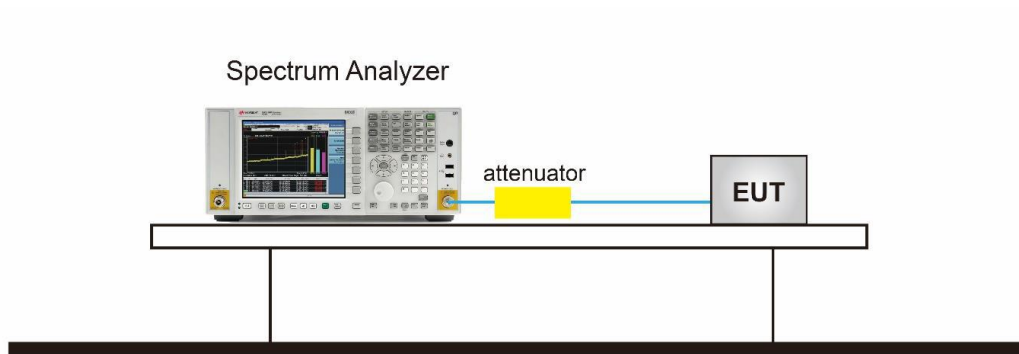
Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below 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 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 = 1MHz; VBW= 3MHz; 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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