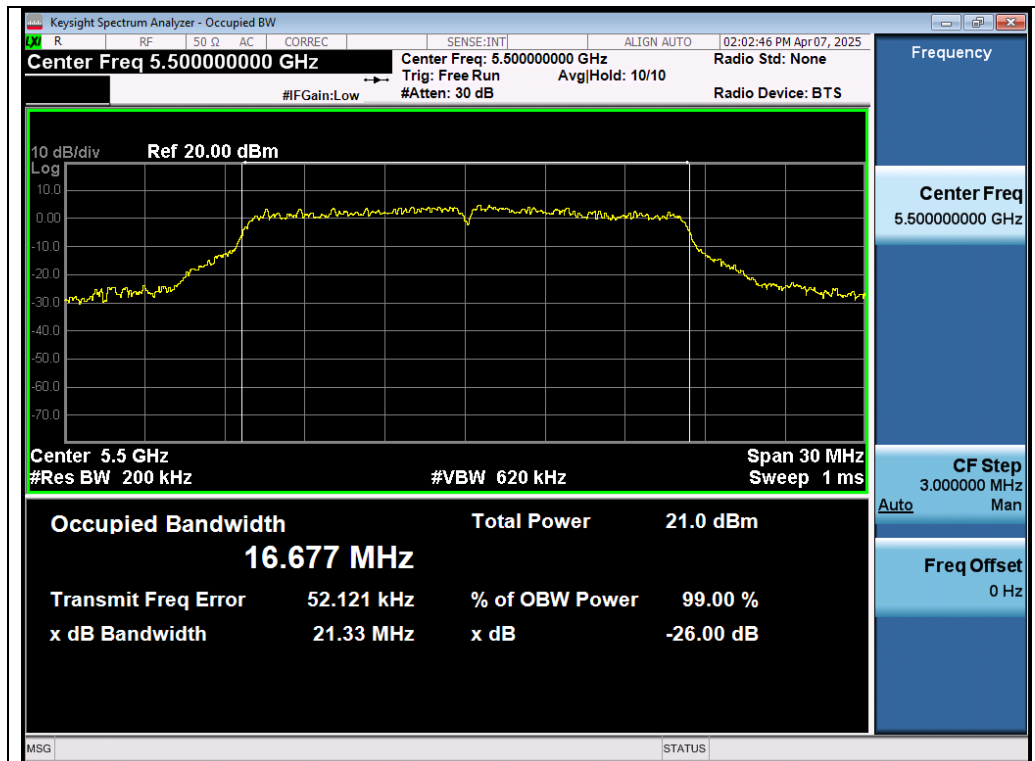
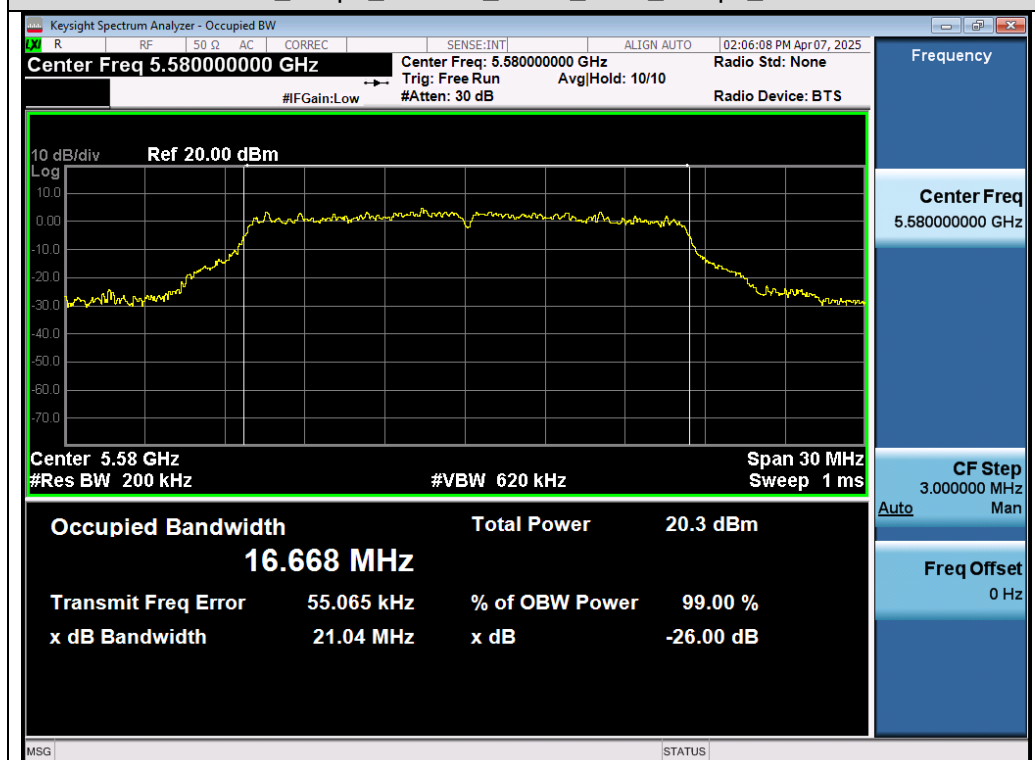


### Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz



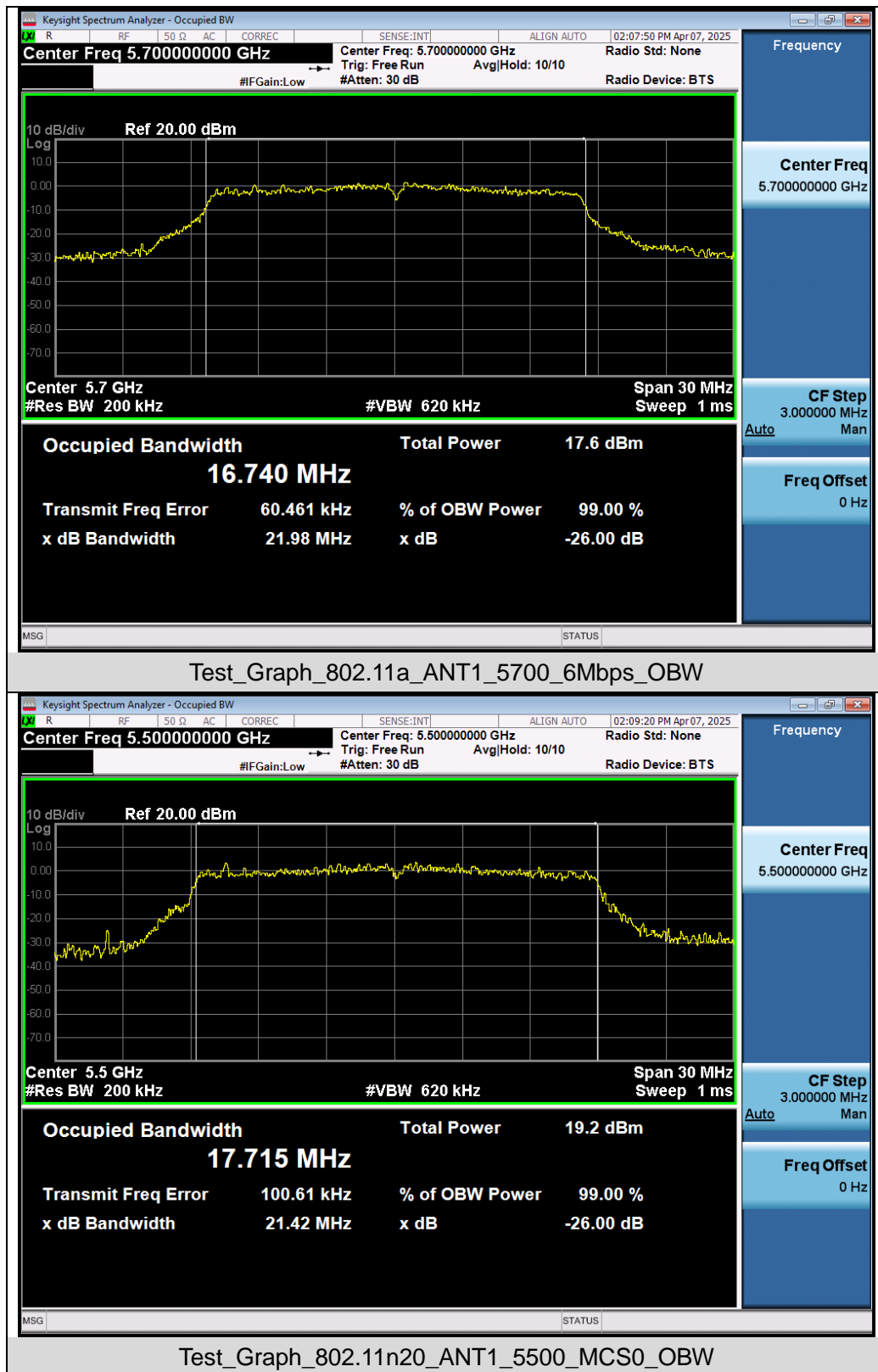
Test\_Graph\_802.11a\_ANT1\_5500\_6Mbps\_OBW



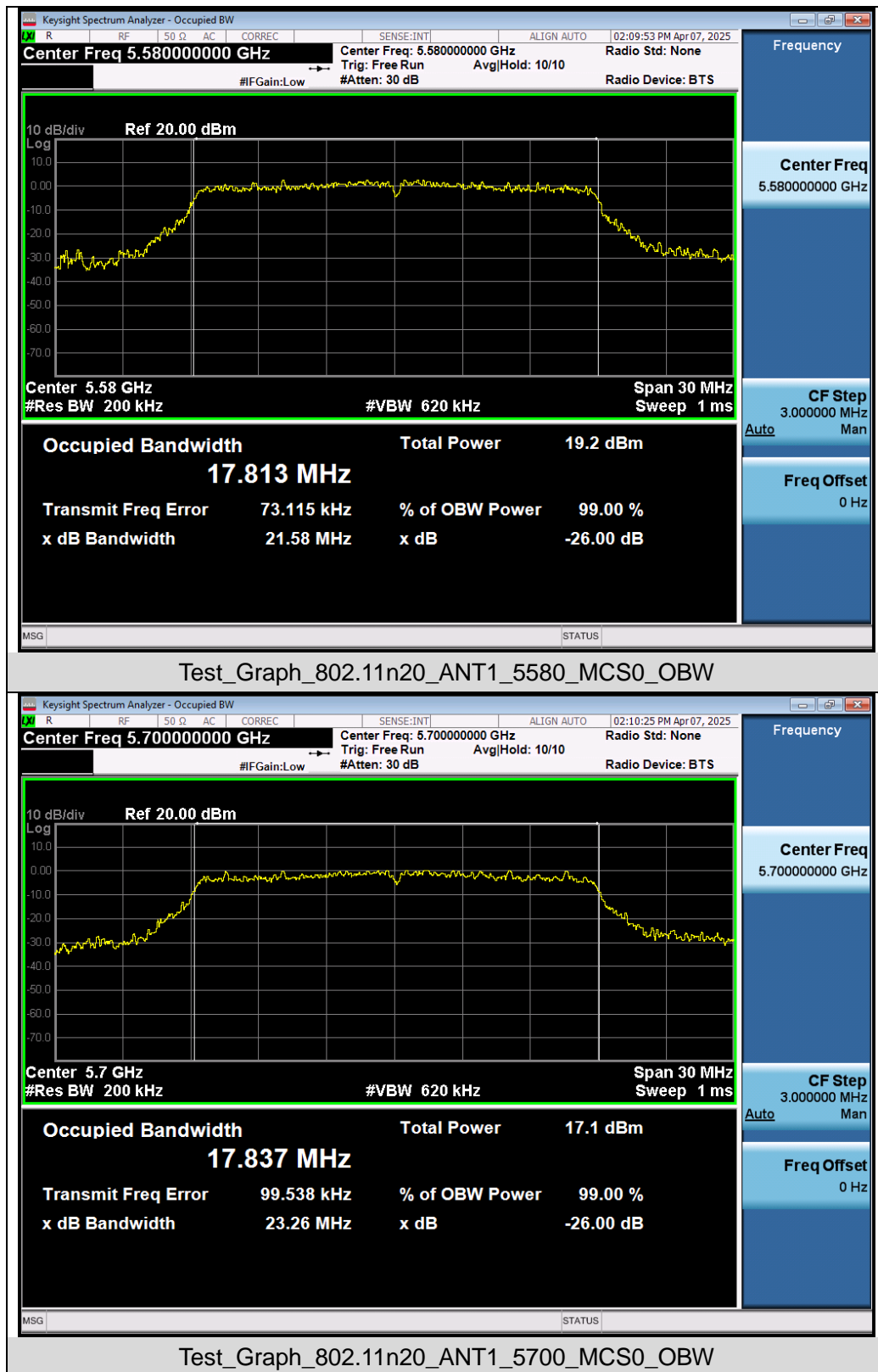
Test\_Graph\_802.11a\_ANT1\_5580\_6Mbps\_OBW

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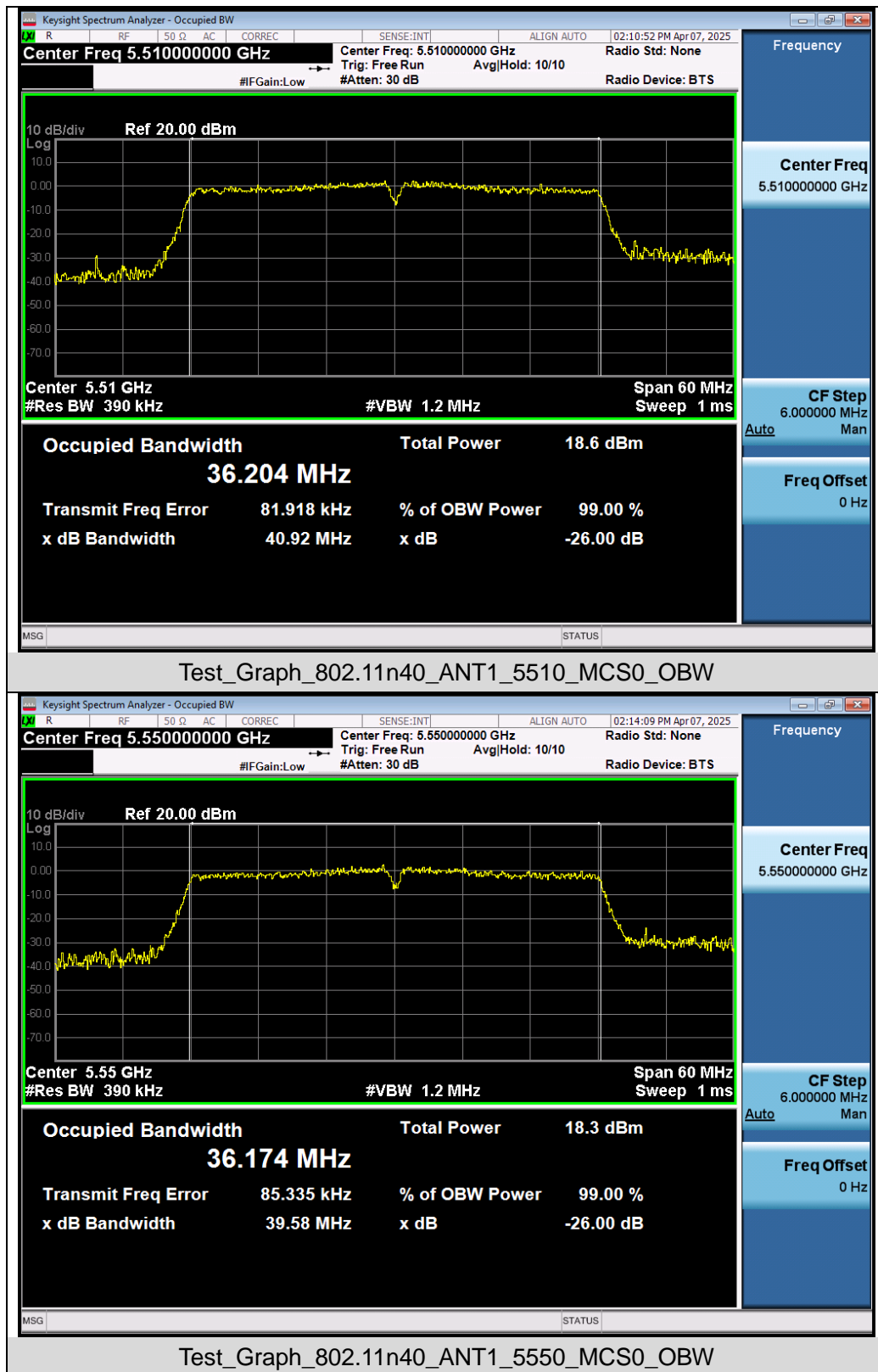


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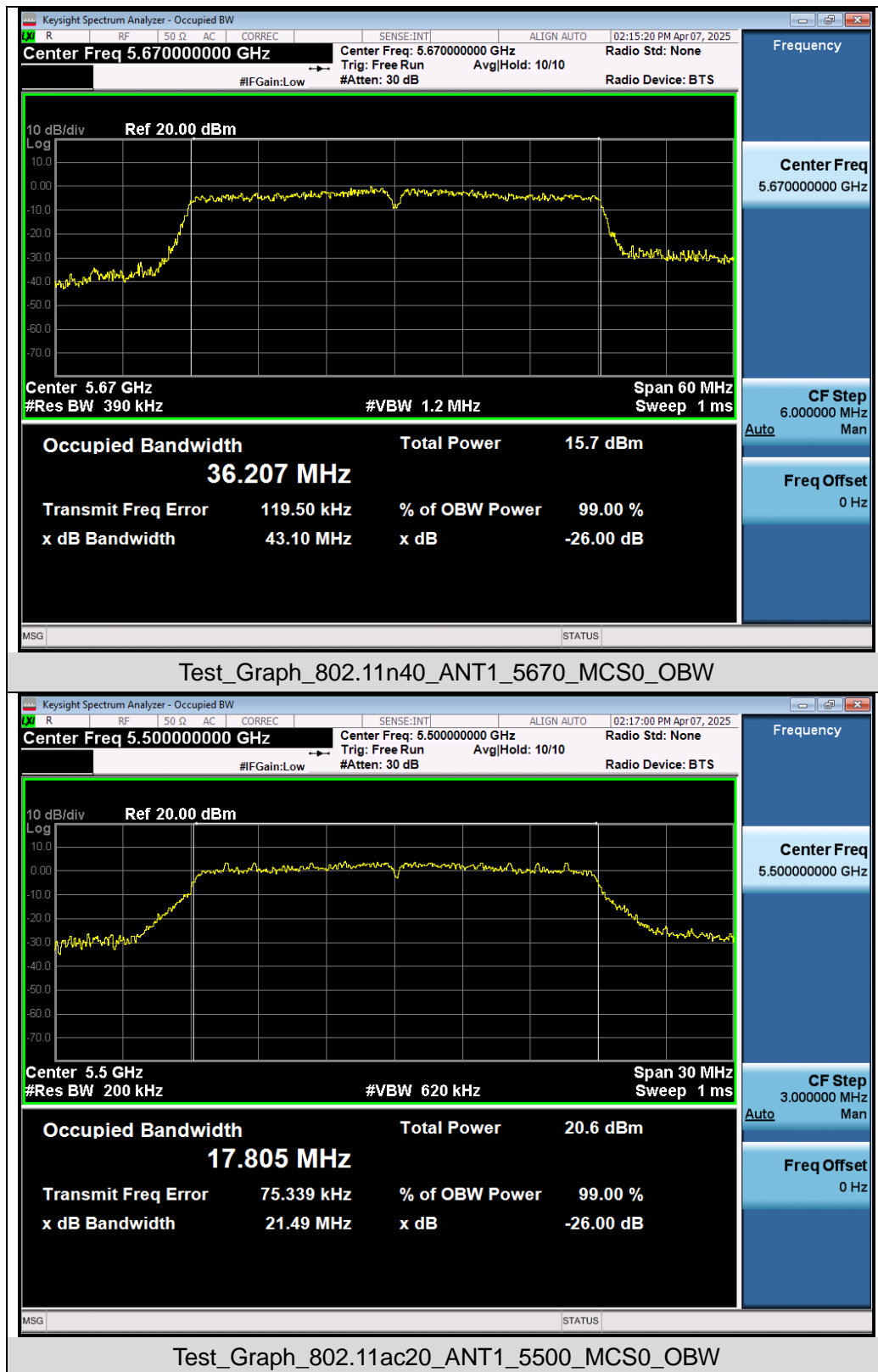


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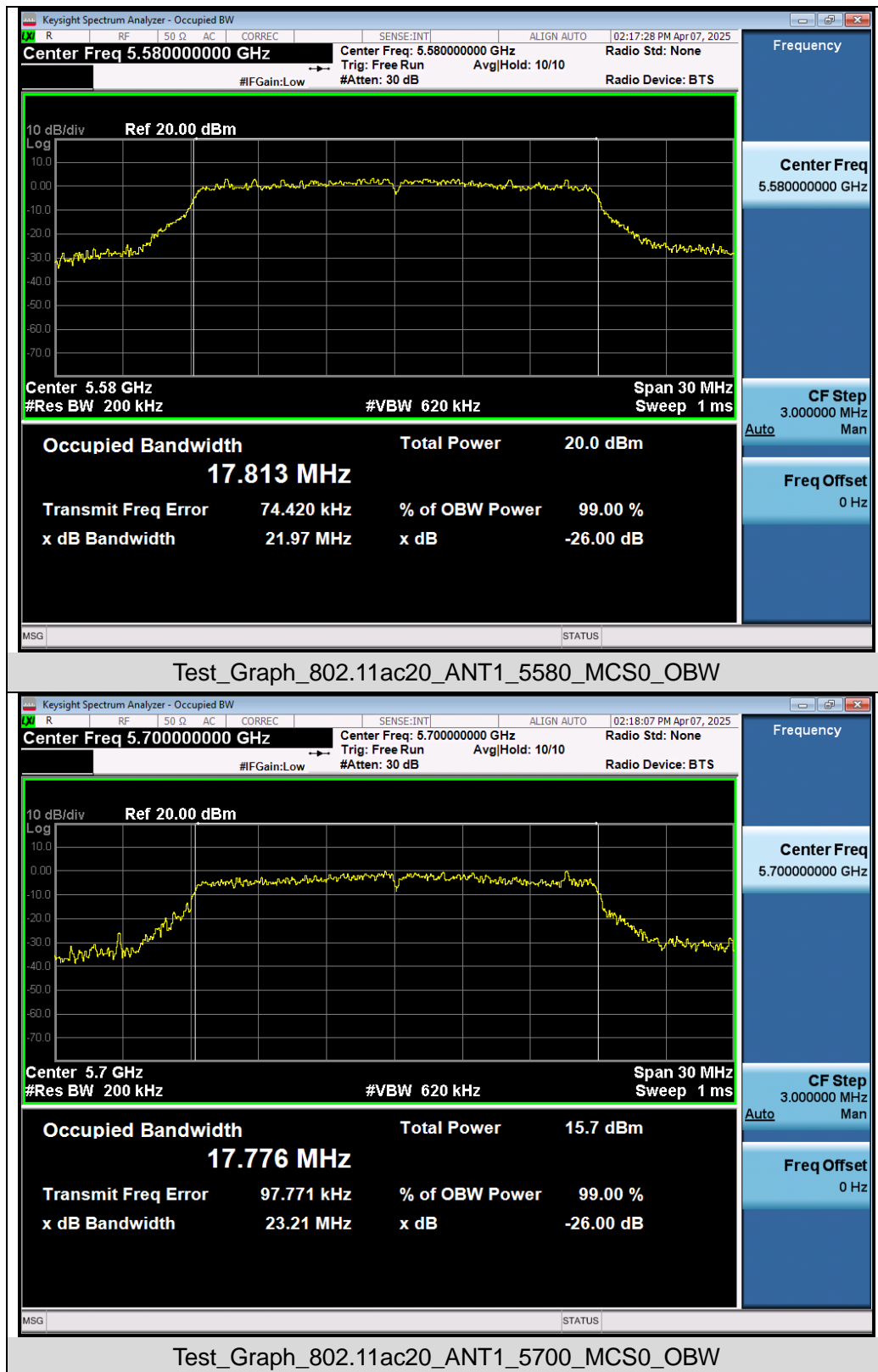


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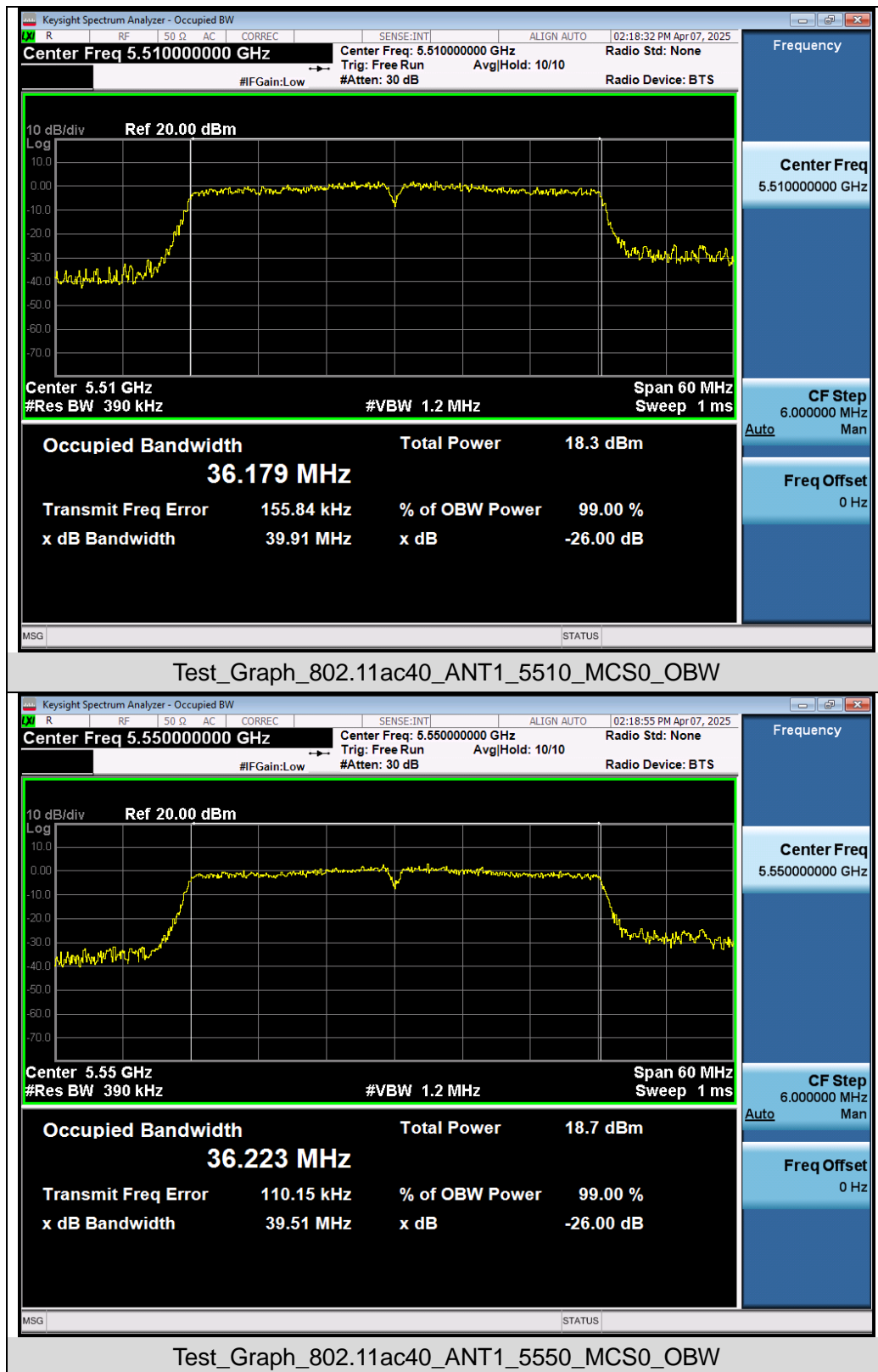


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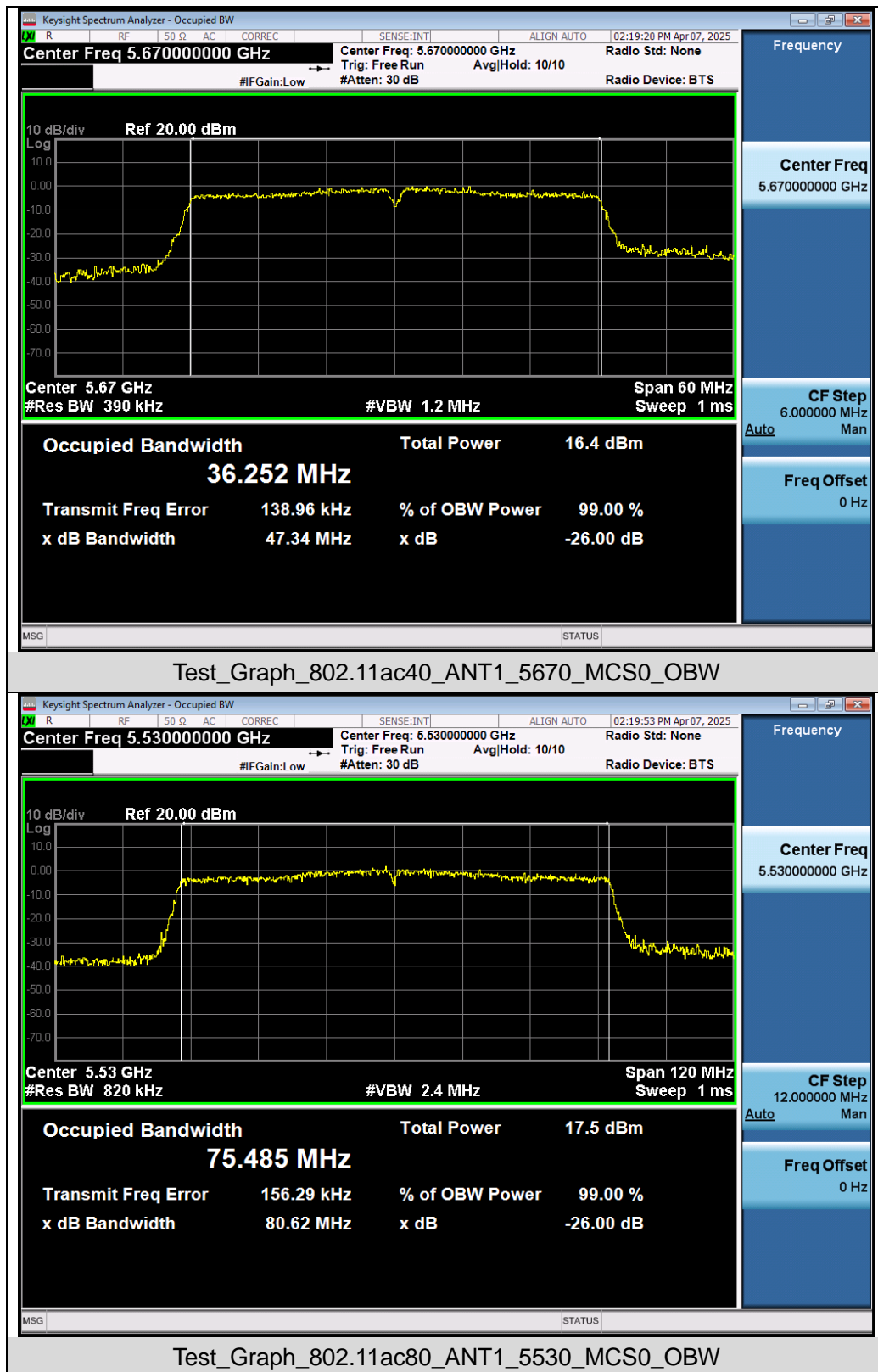




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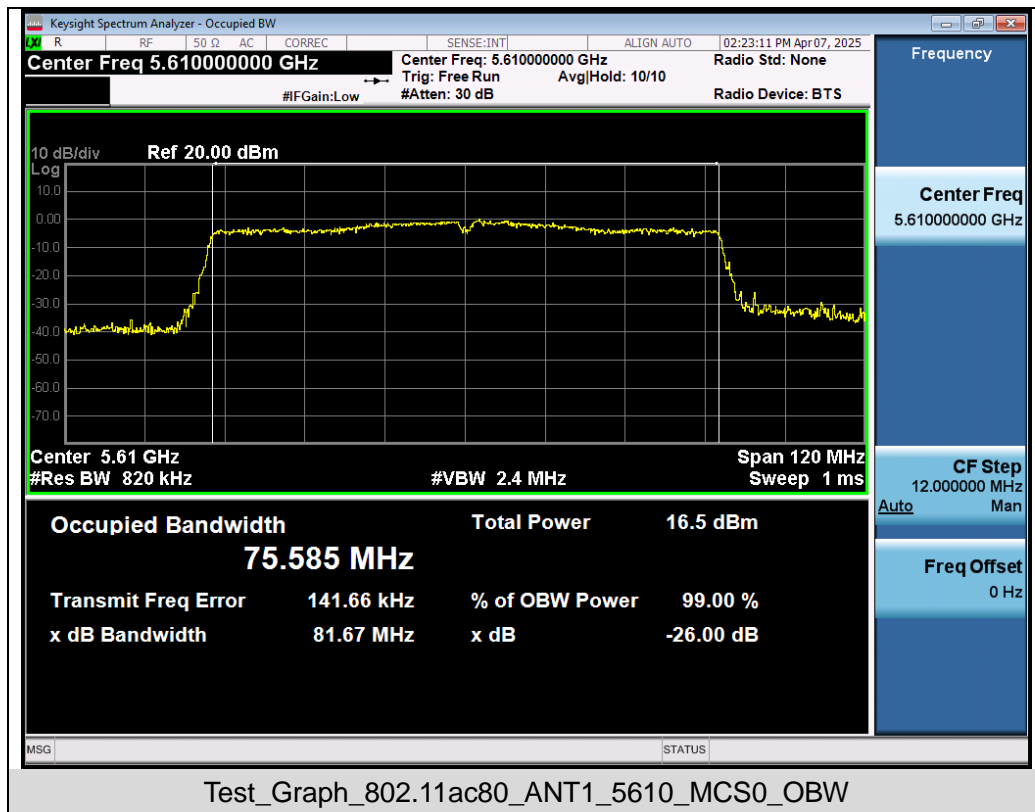


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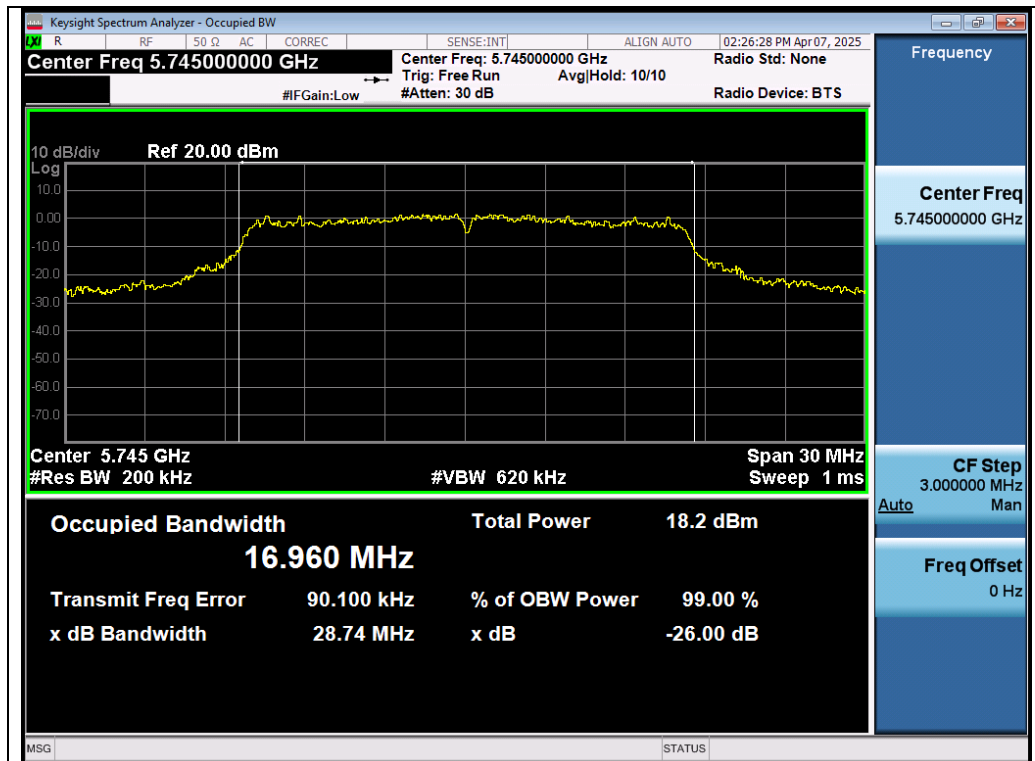
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### Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz

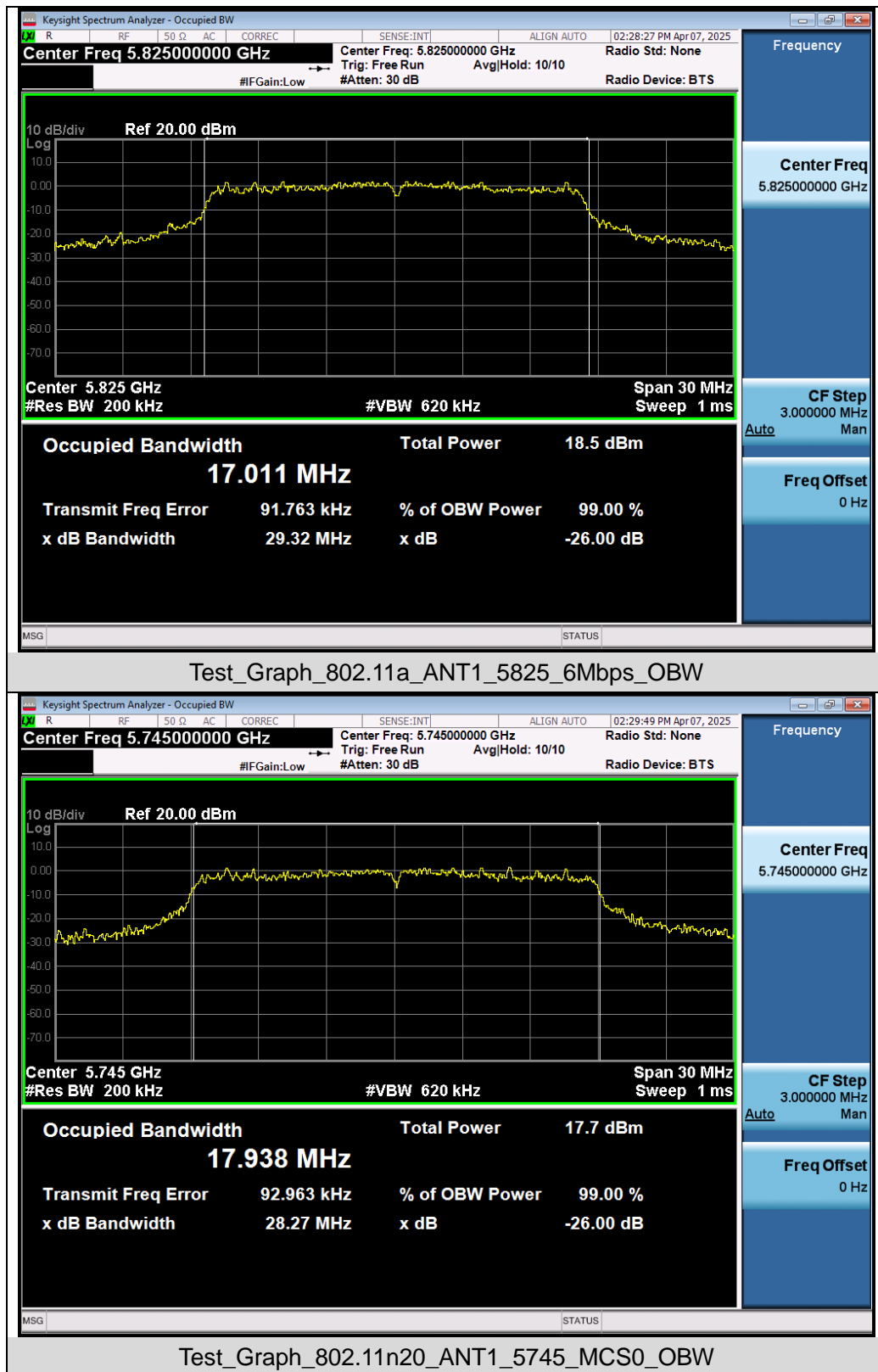


### Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_OBW

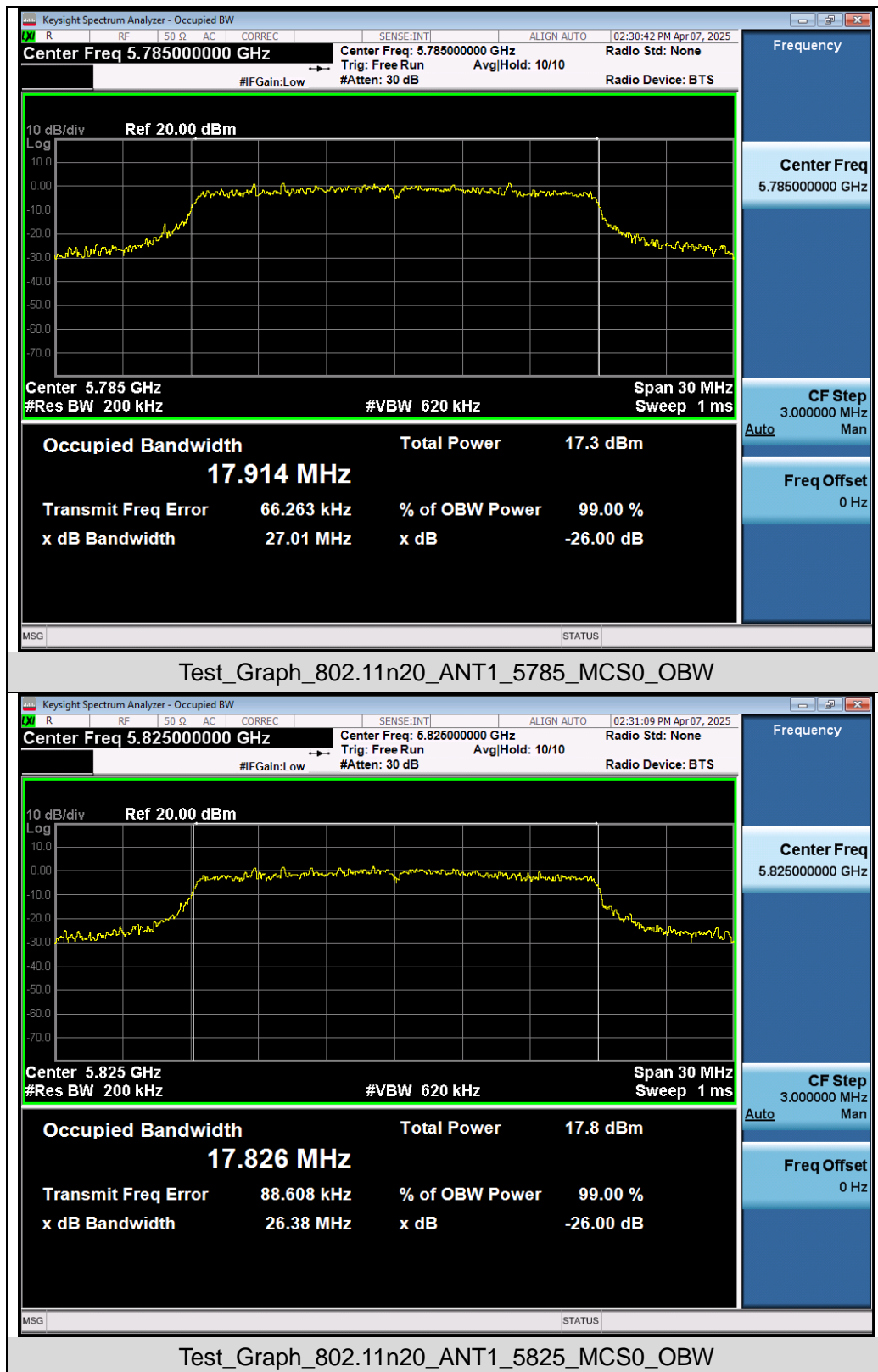


### Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_OBW

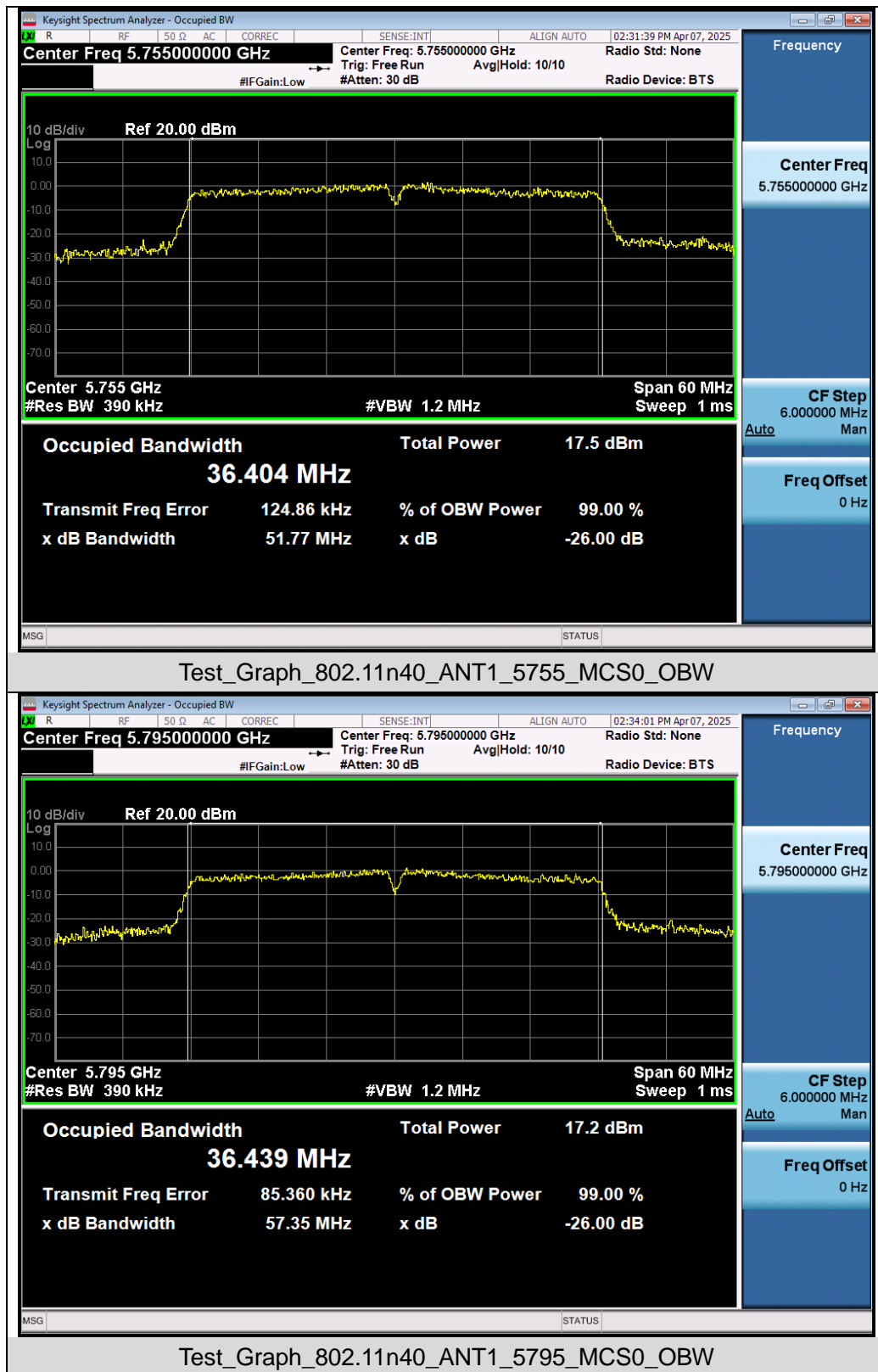
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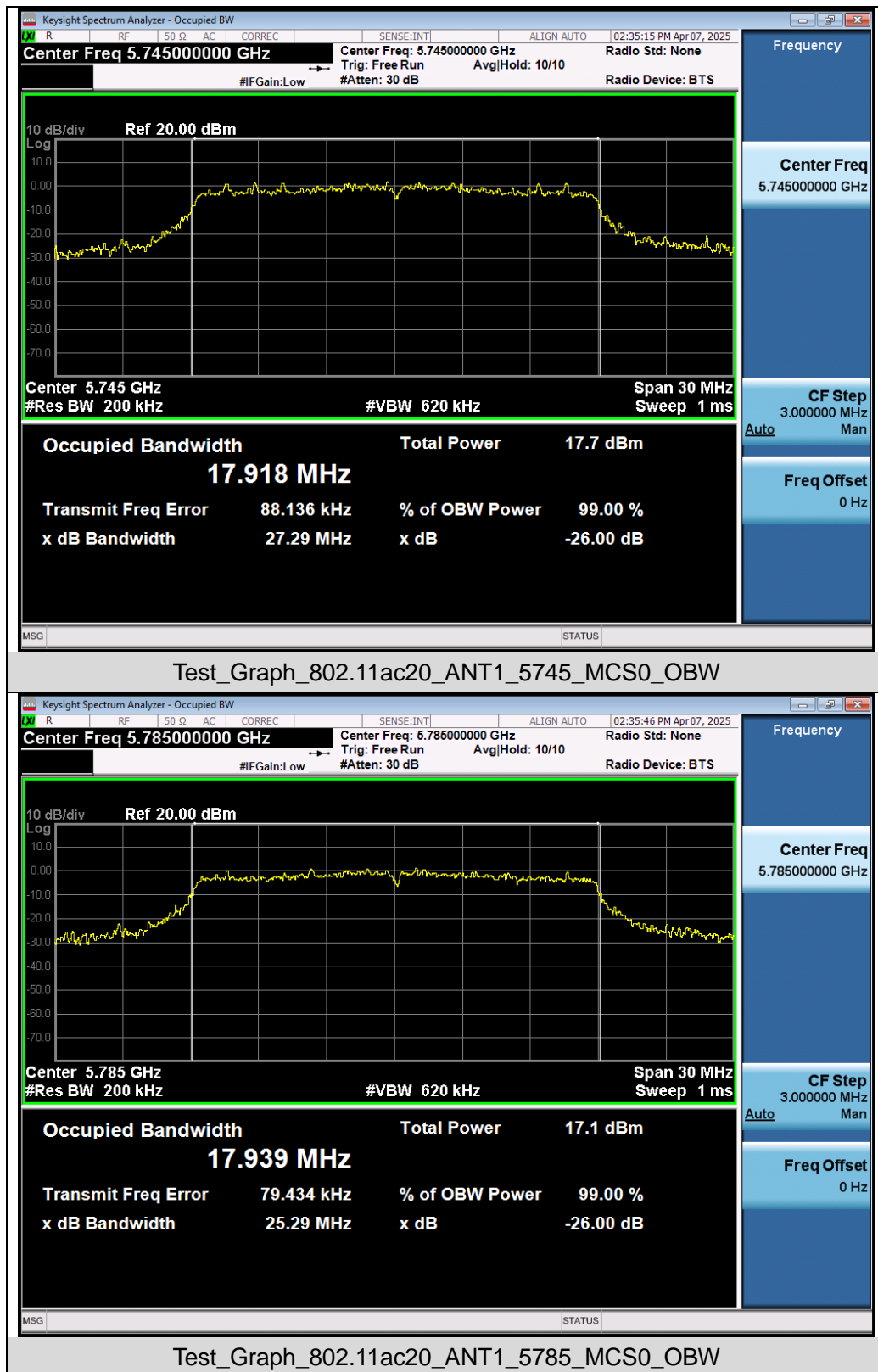


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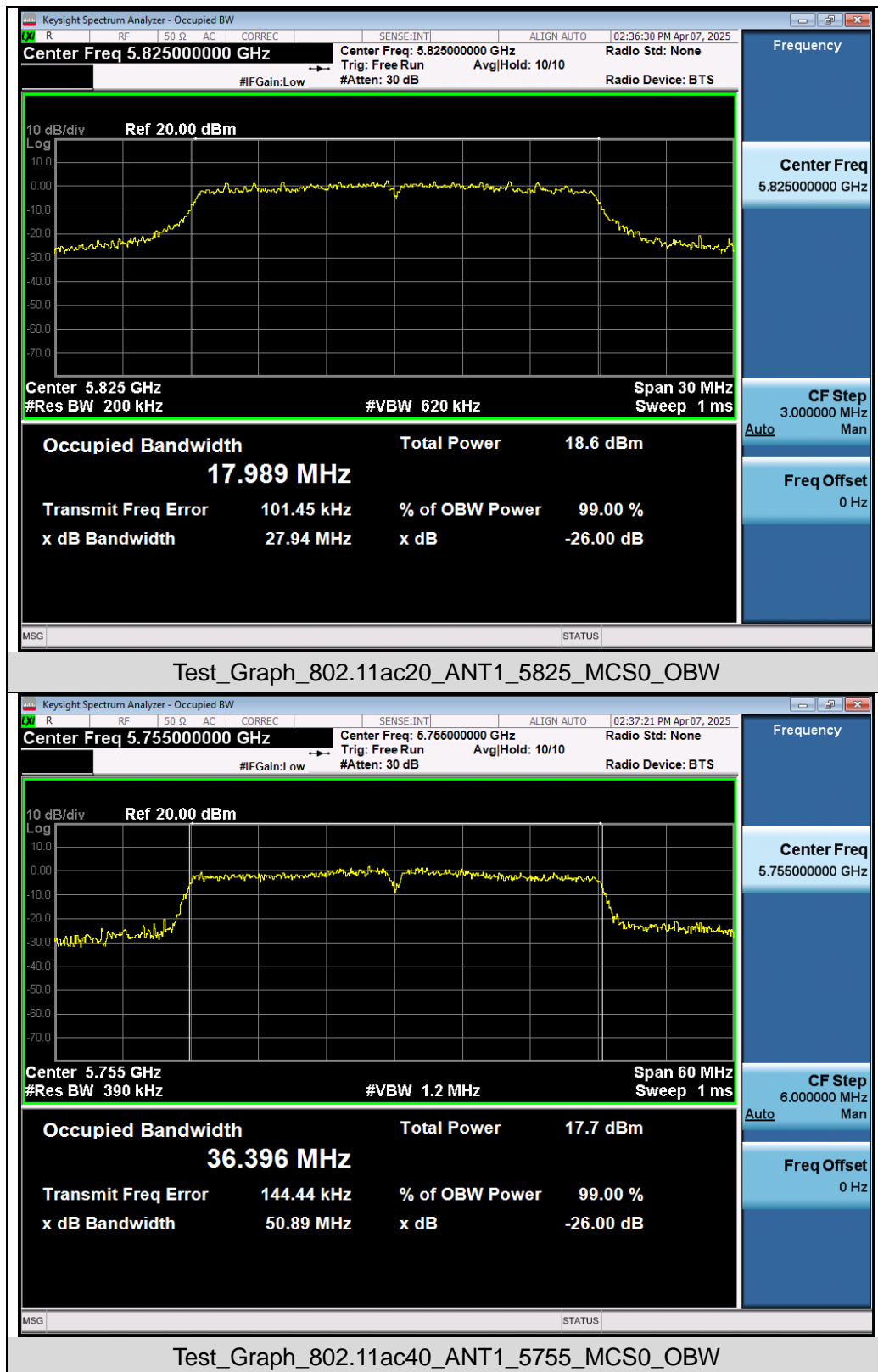
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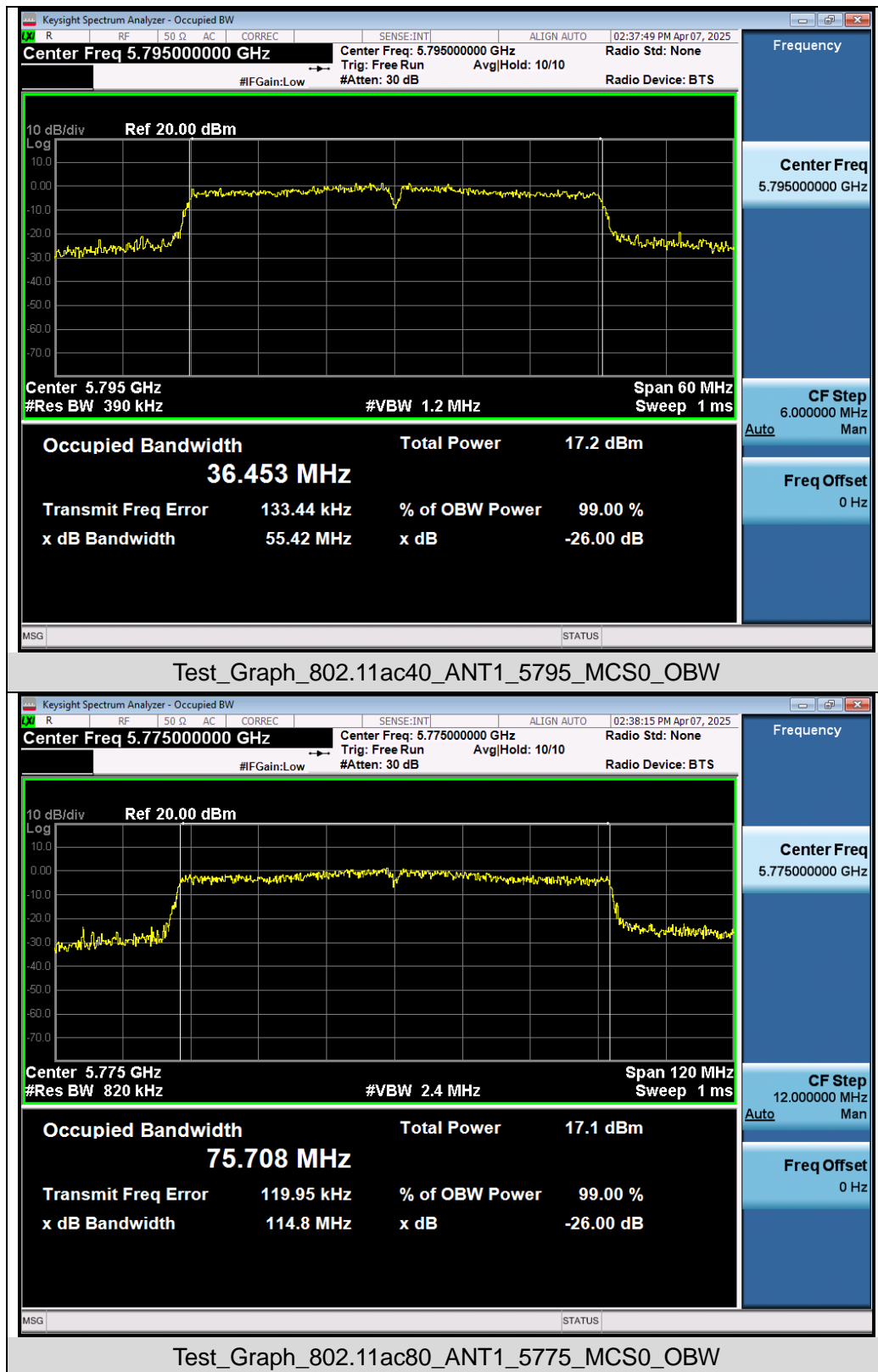


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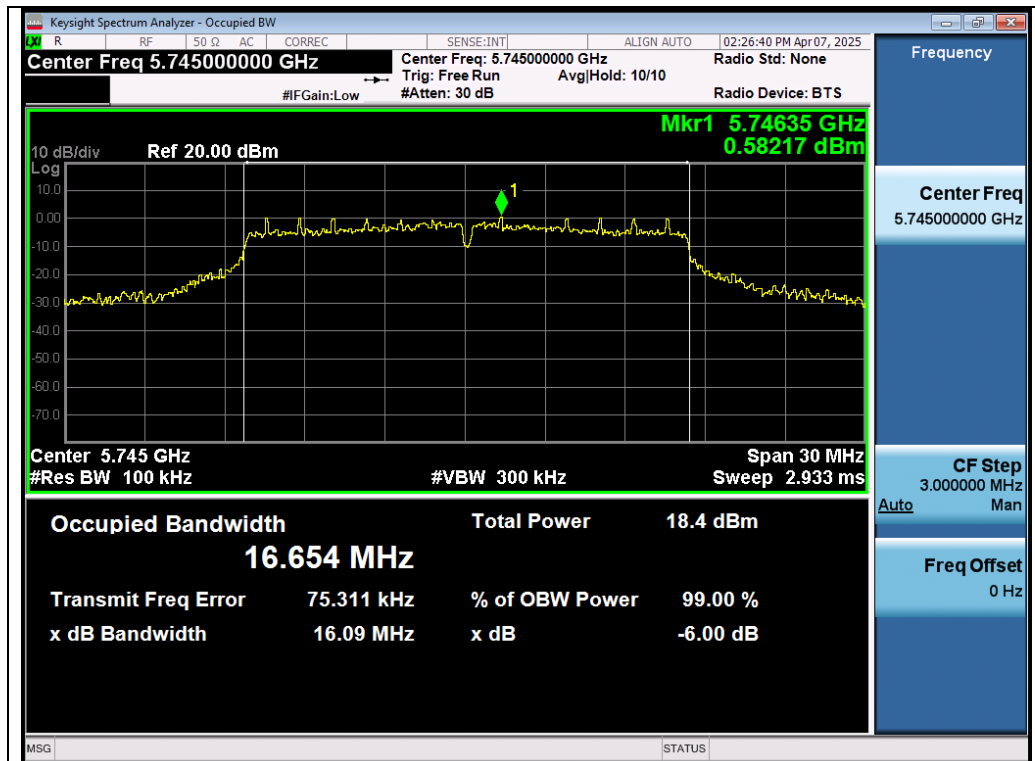


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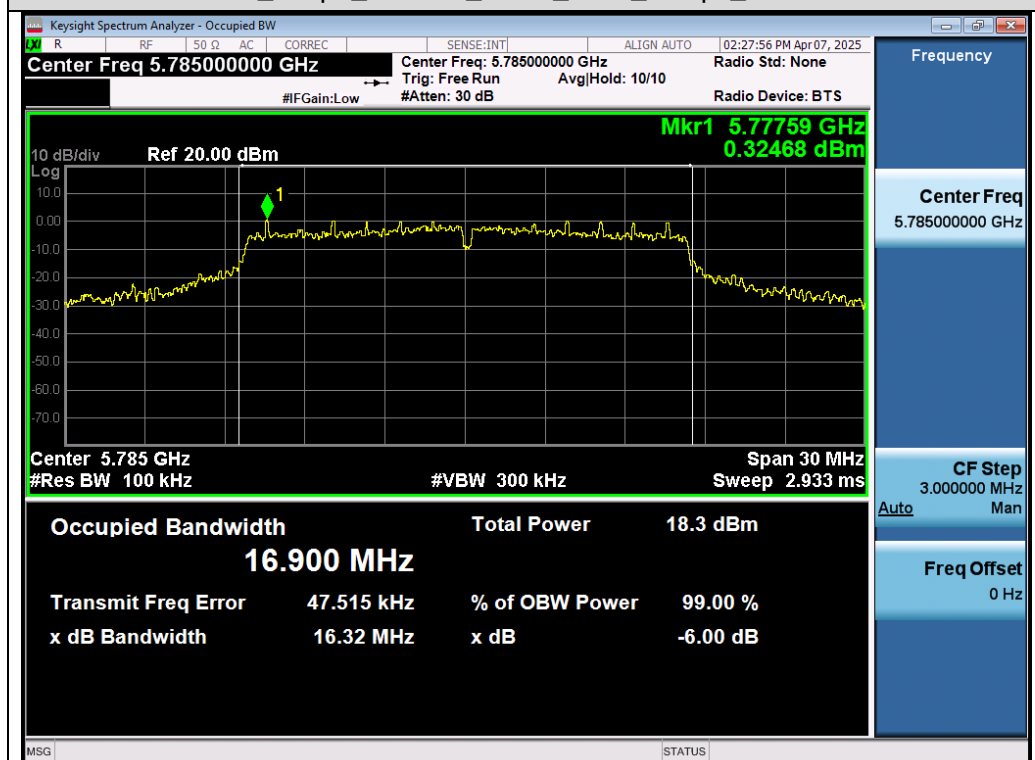


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### Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

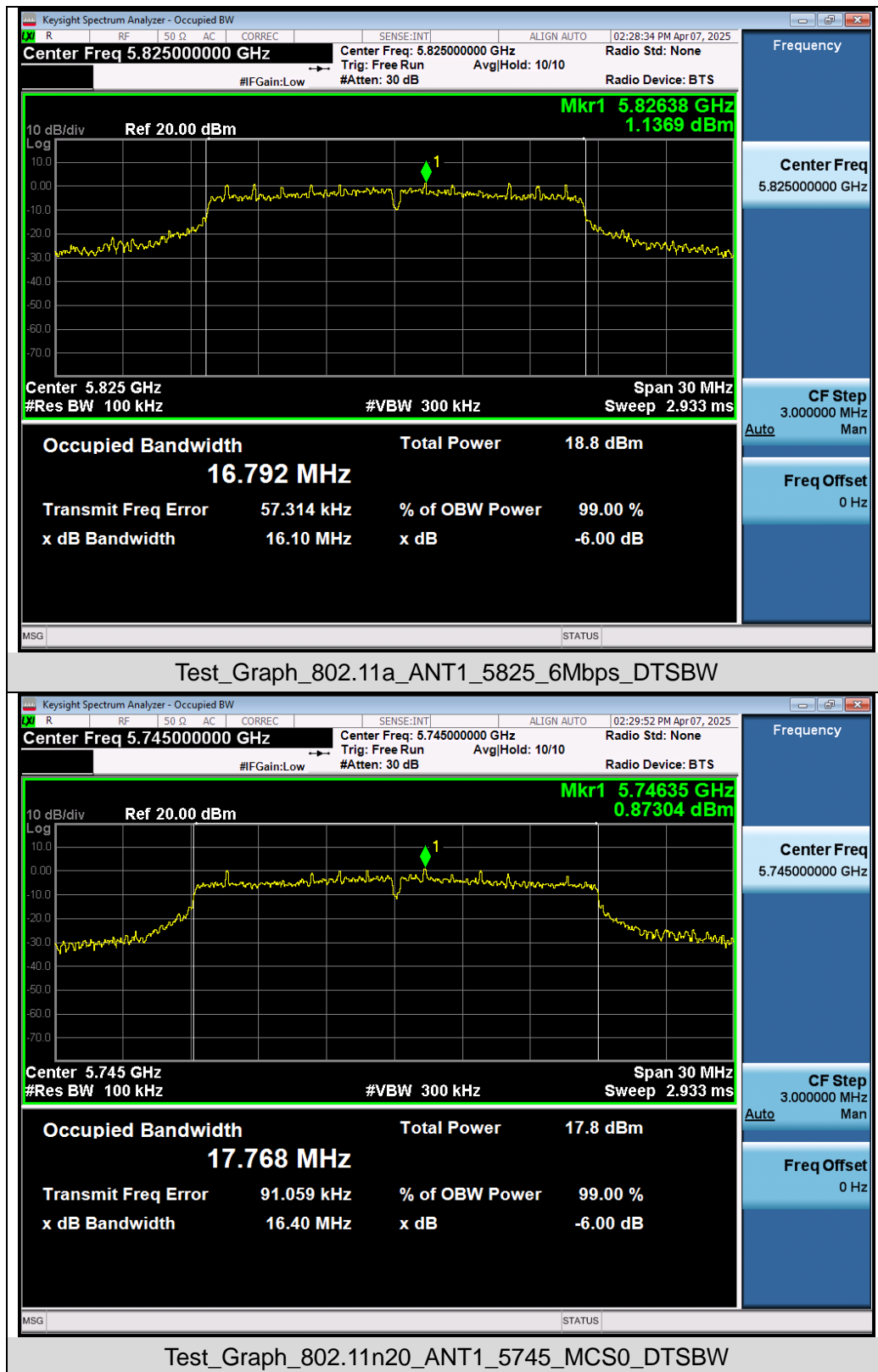


### Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_DTSBW



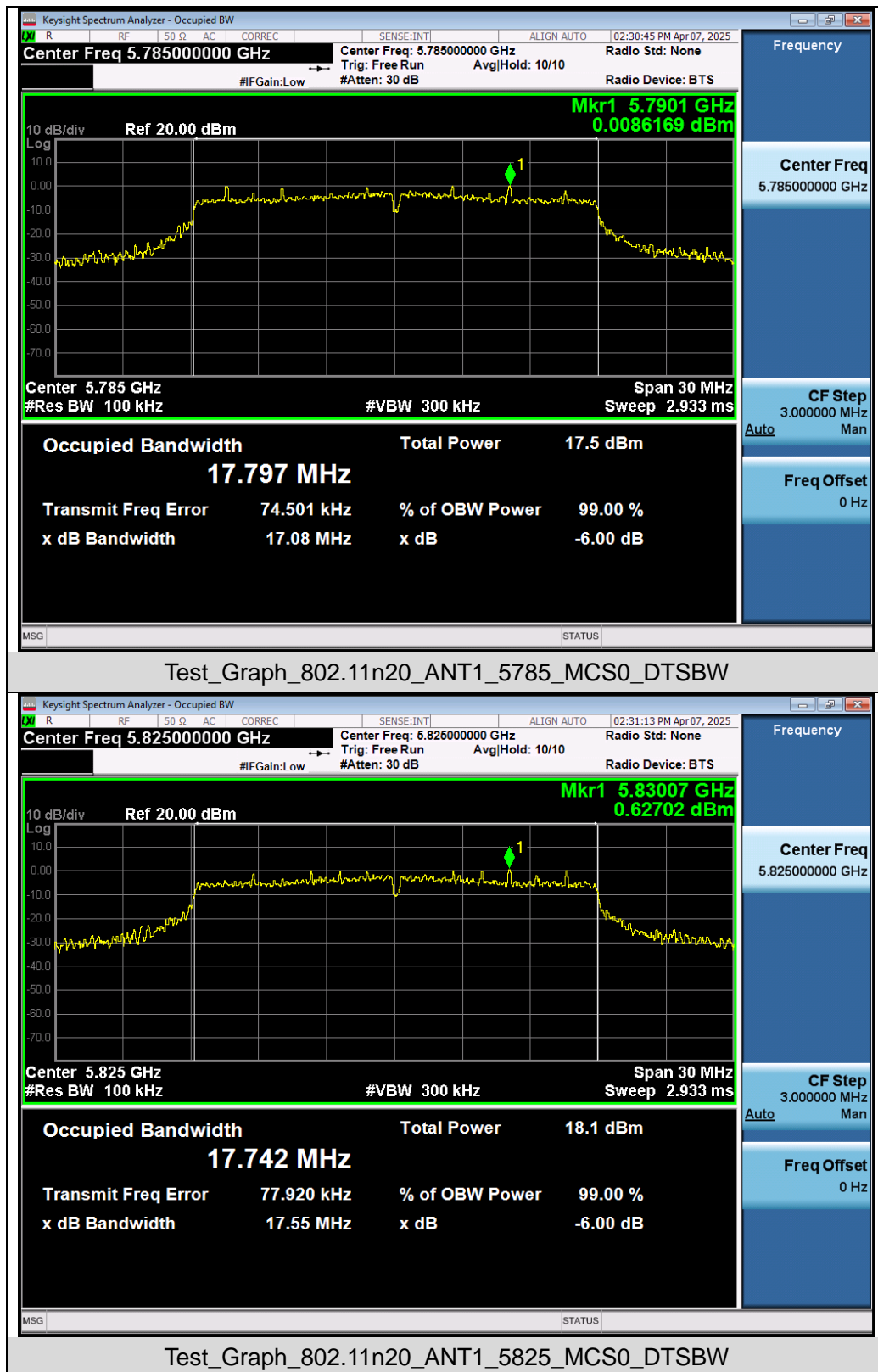
### Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_DTSBW

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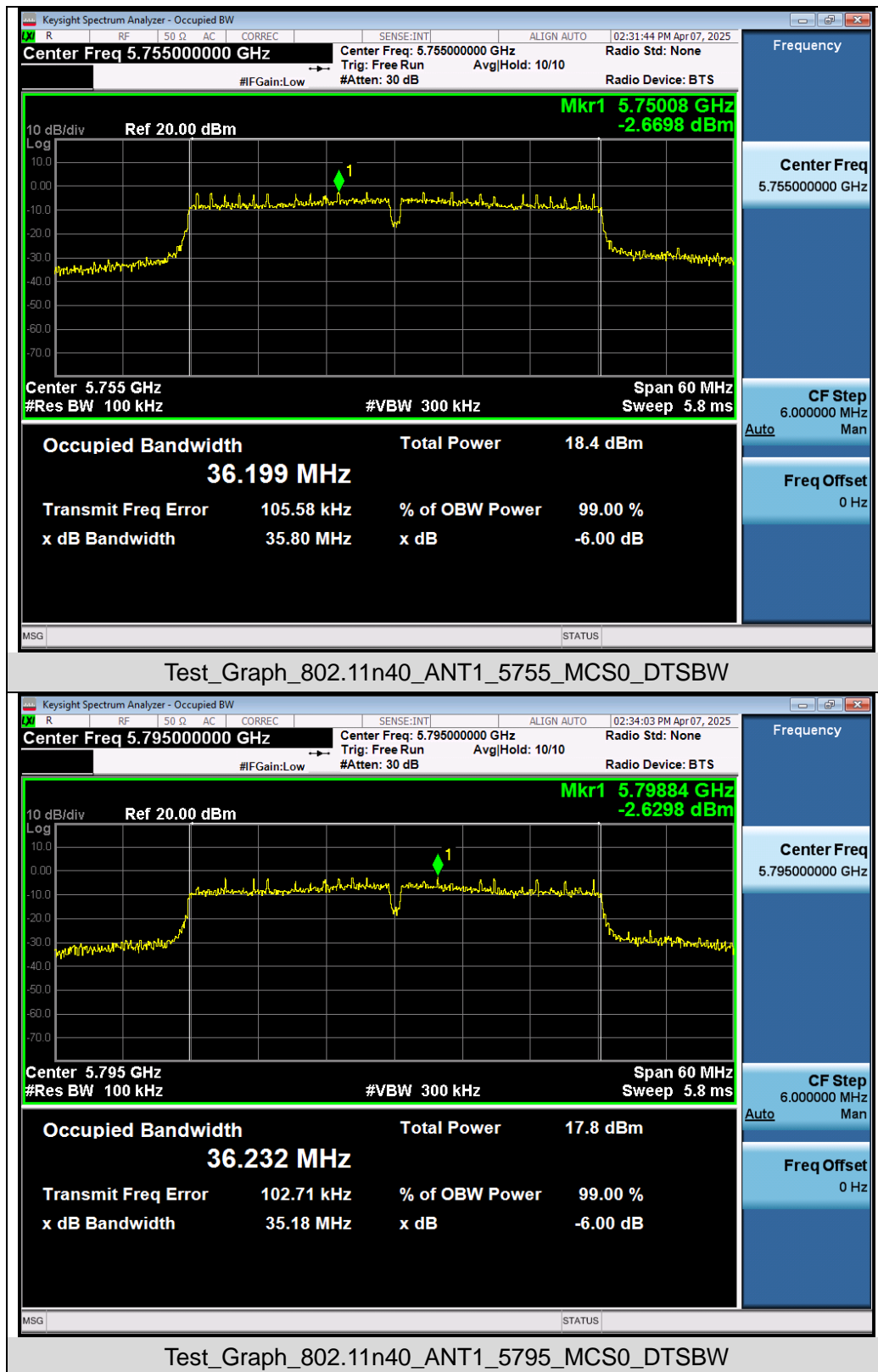
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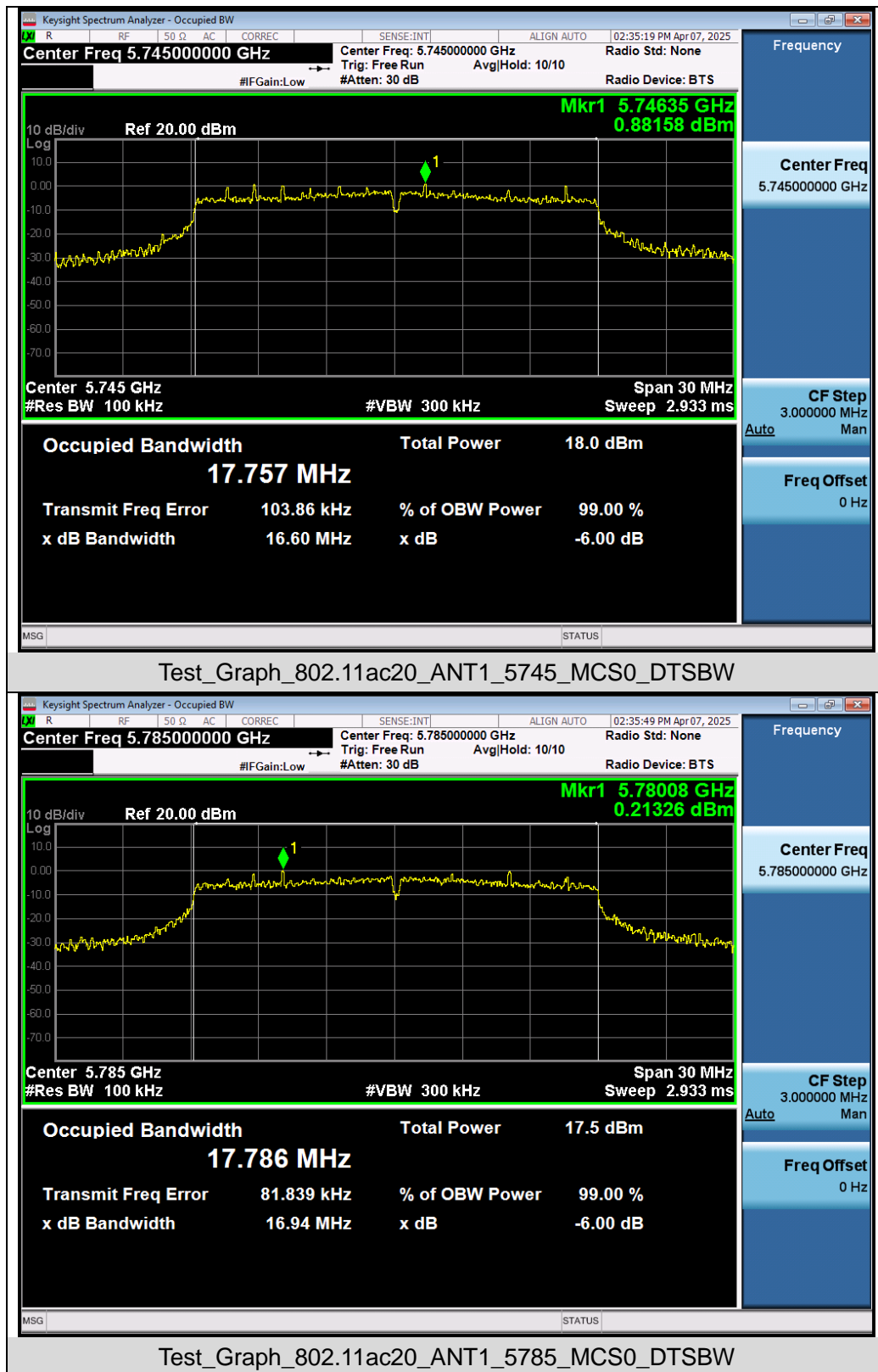
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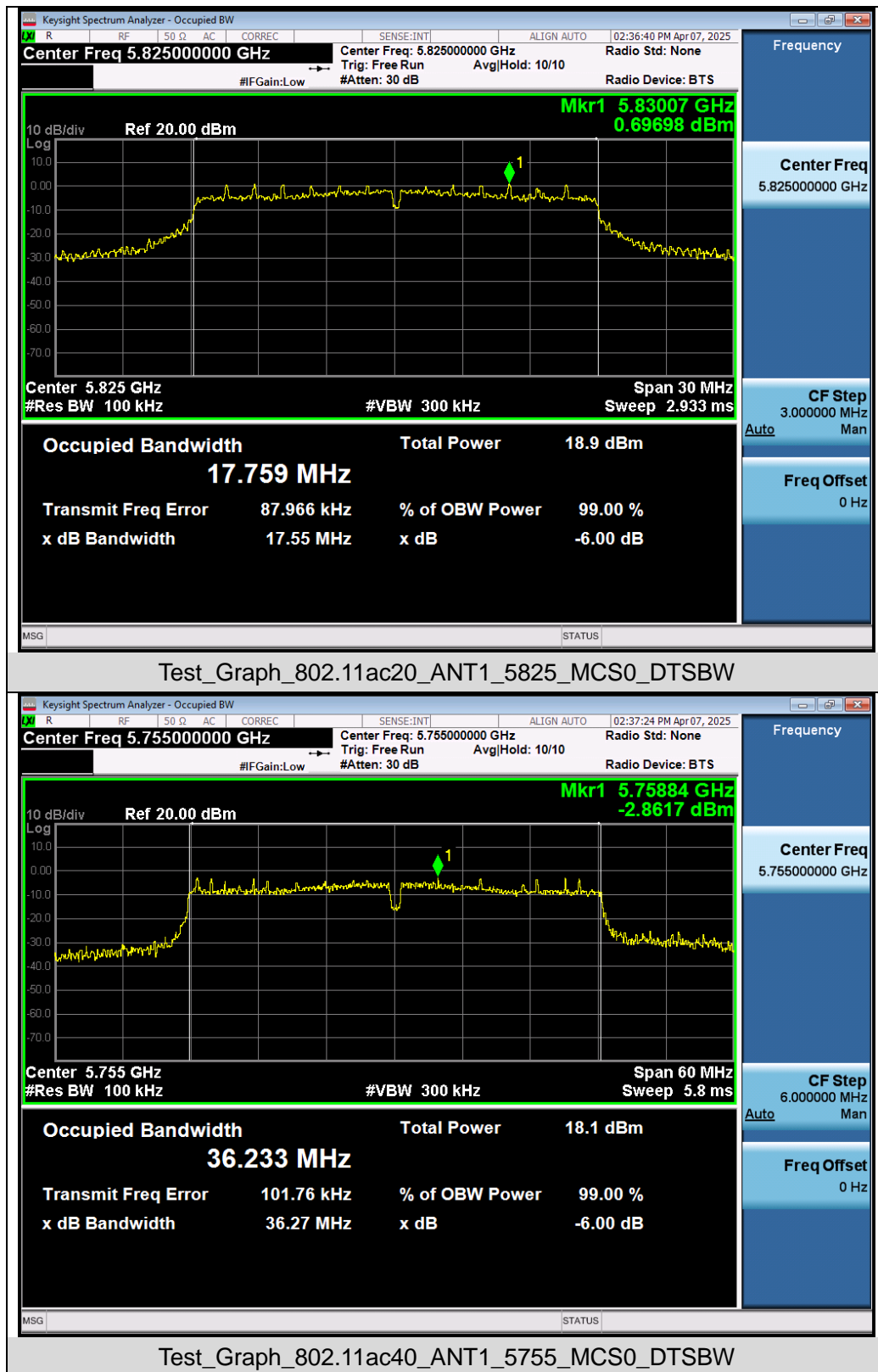
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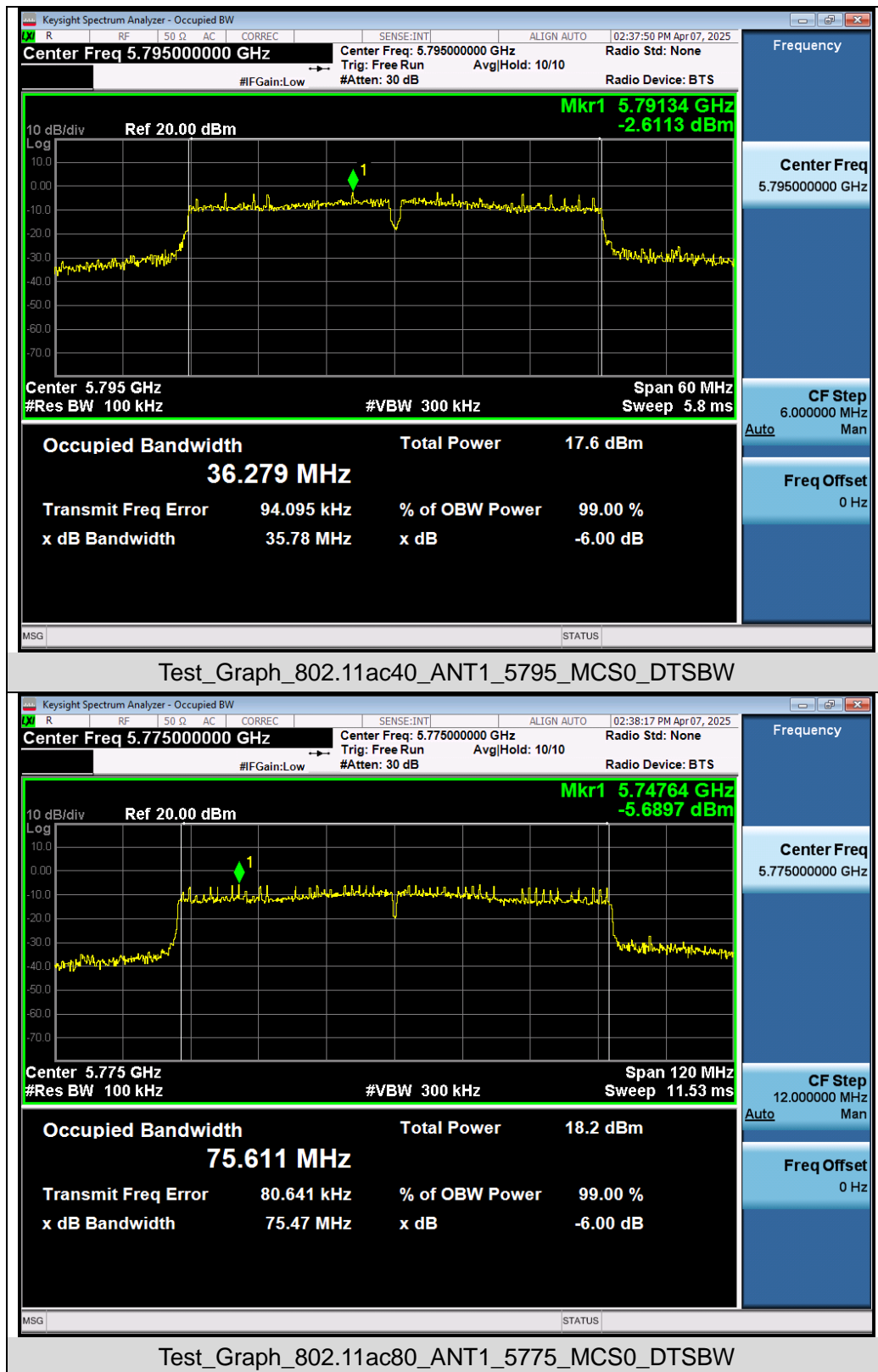
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## 9. Power Spectral Density Measurement

### 9.1 Provisions Applicable

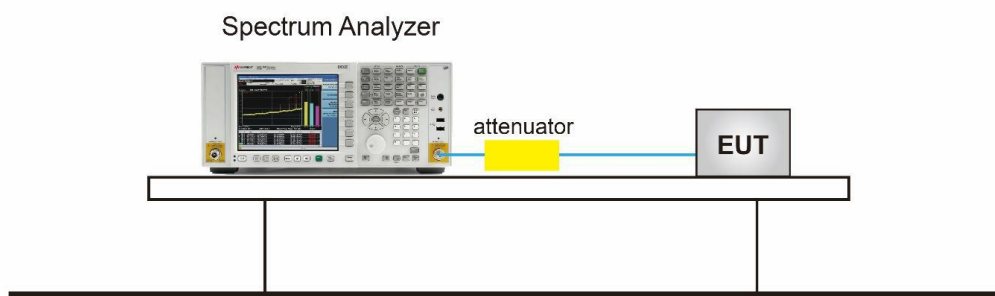
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		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 $\times$ 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				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	3.310	11	Pass
	5200	3.553	11	Pass
	5240	3.559	11	Pass
802.11n20	5180	2.514	11	Pass
	5200	2.542	11	Pass
	5240	2.508	11	Pass
802.11n40	5190	-1.896	11	Pass
	5230	-1.848	11	Pass
802.11ac20	5180	2.463	11	Pass
	5200	2.609	11	Pass
	5240	2.550	11	Pass
802.11ac40	5190	-1.864	11	Pass
	5230	-1.818	11	Pass
802.11ac80	5210	-6.583	11	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	3.234	11	Pass
	5300	3.203	11	Pass
	5320	3.087	11	Pass
802.11n20	5260	2.464	11	Pass
	5300	2.270	11	Pass
	5320	2.170	11	Pass
802.11n40	5270	-1.981	11	Pass
	5310	-2.268	11	Pass
802.11ac20	5260	2.331	11	Pass
	5300	2.232	11	Pass
	5320	2.384	11	Pass
802.11ac40	5270	-2.244	11	Pass
	5310	-2.102	11	Pass
802.11ac80	5290	-6.568	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	4.178	11	Pass
	5600	3.604	11	Pass
	5700	0.824	11	Pass
802.11n20	5500	3.405	11	Pass
	5600	2.552	11	Pass
	5700	-0.023	11	Pass
802.11n40	5510	-0.816	11	Pass
	5590	-0.975	11	Pass
	5670	-3.633	11	Pass
802.11ac20	5500	3.382	11	Pass
	5600	2.751	11	Pass
	5700	-0.129	11	Pass
802.11ac40	5510	-0.683	11	Pass
	5590	-6.652	11	Pass
	5670	4.178	11	Pass
802.11ac80	5530	3.604	11	Pass
	5610	0.824	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)	Result
802.11a	5745	-6.077	0.913	30	PASS
	5785	-7.311	-0.321	30	PASS
	5825	-6.590	0.400	30	PASS
802.11n20	5745	-7.714	-0.724	30	PASS
	5785	-7.813	-0.823	30	PASS
	5825	-7.145	-0.155	30	PASS
802.11ac20	5755	-10.922	-3.932	30	PASS
	5795	-11.218	-4.228	30	PASS
	5745	-7.728	-0.738	30	PASS
802.11n40	5785	-8.034	-1.044	30	PASS
	5825	-7.525	-0.535	30	PASS
802.11ac40	5755	-10.910	-3.920	30	PASS
	5795	-11.065	-4.075	30	PASS
802.11ac80	5775	-13.868	-6.878	30	PASS

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

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

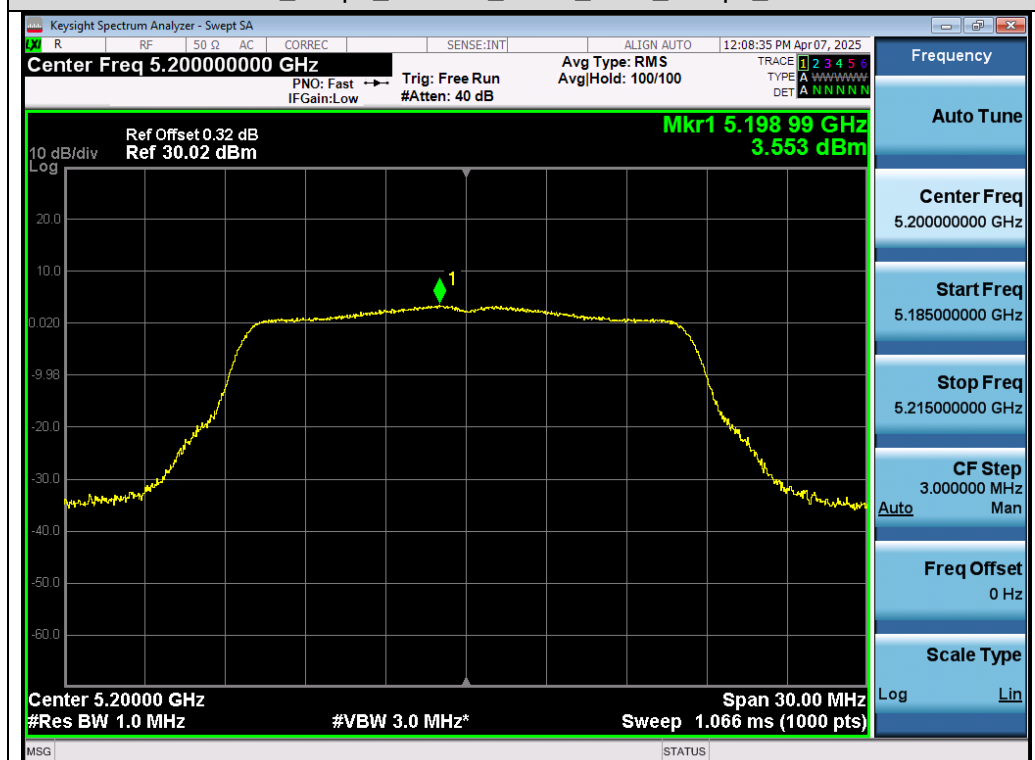
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### Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



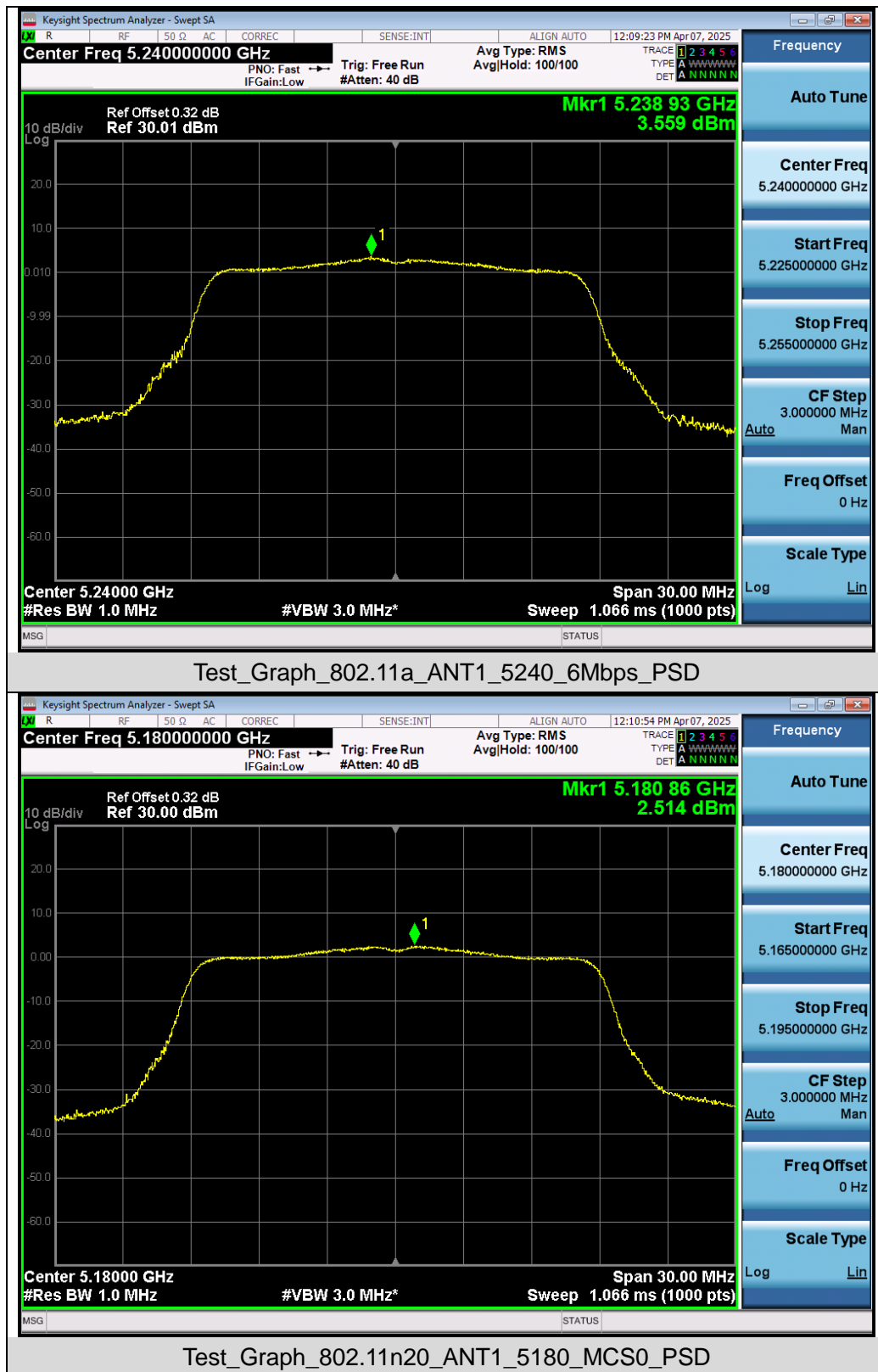
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_PSD



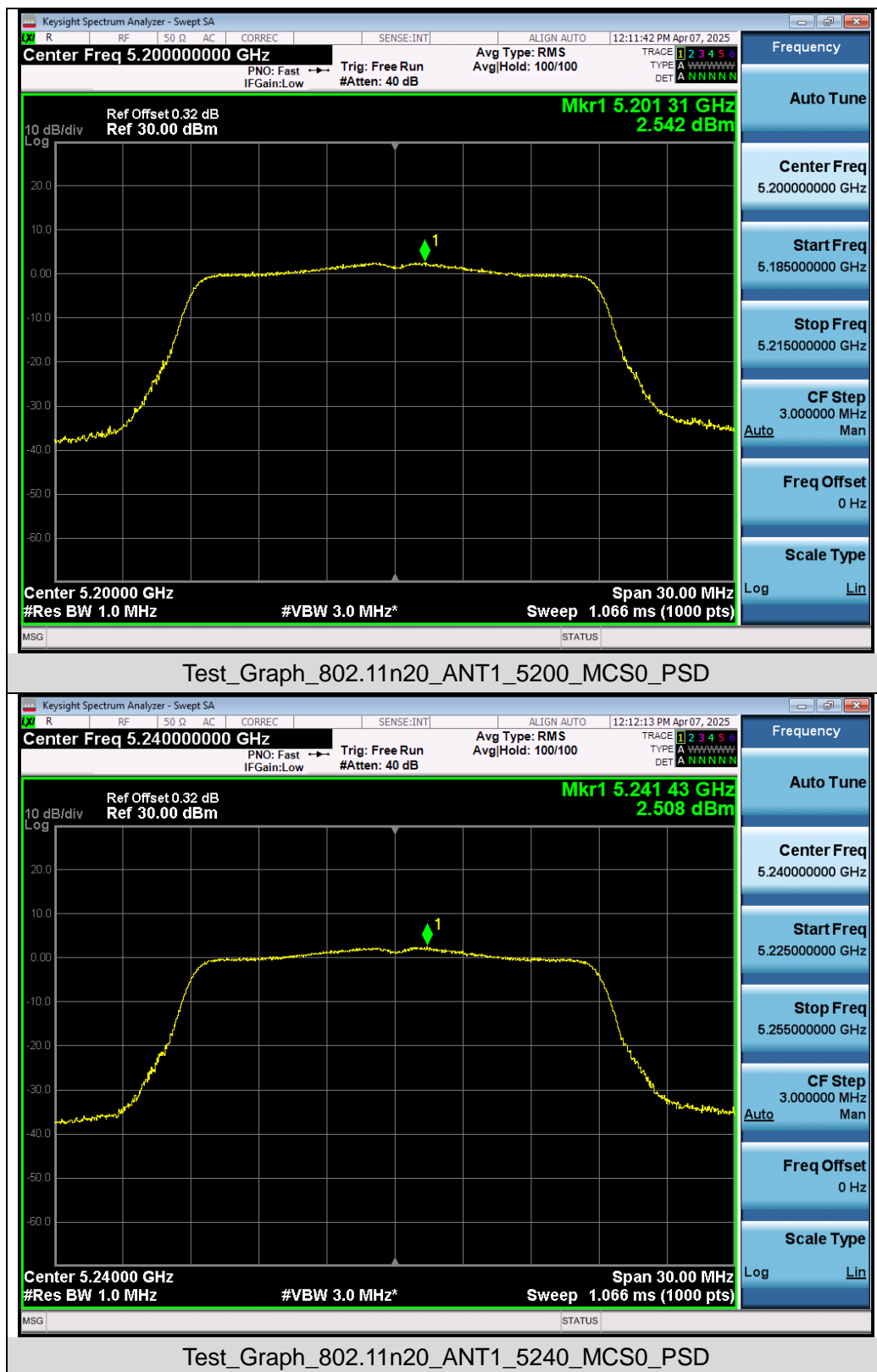
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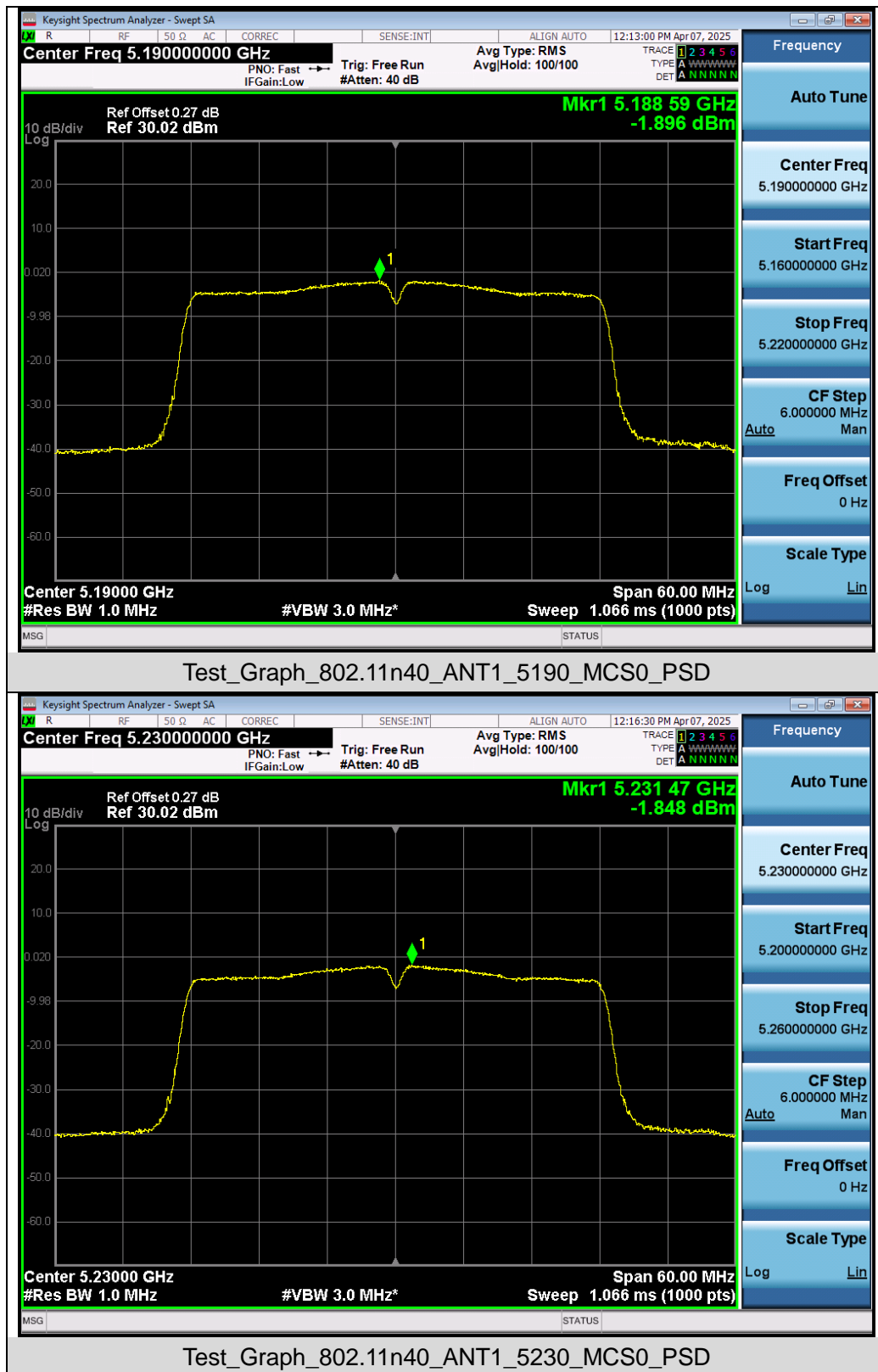


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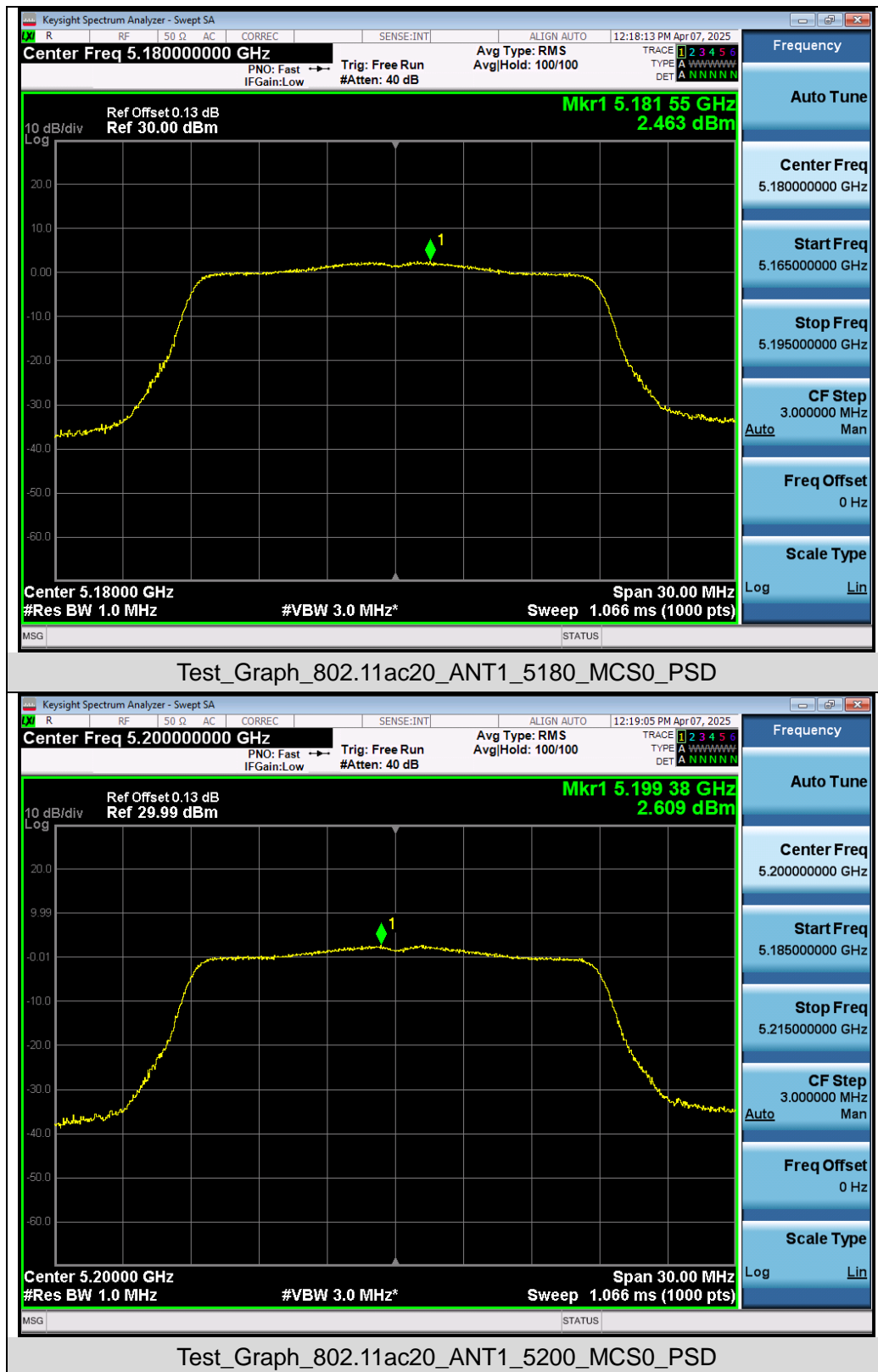
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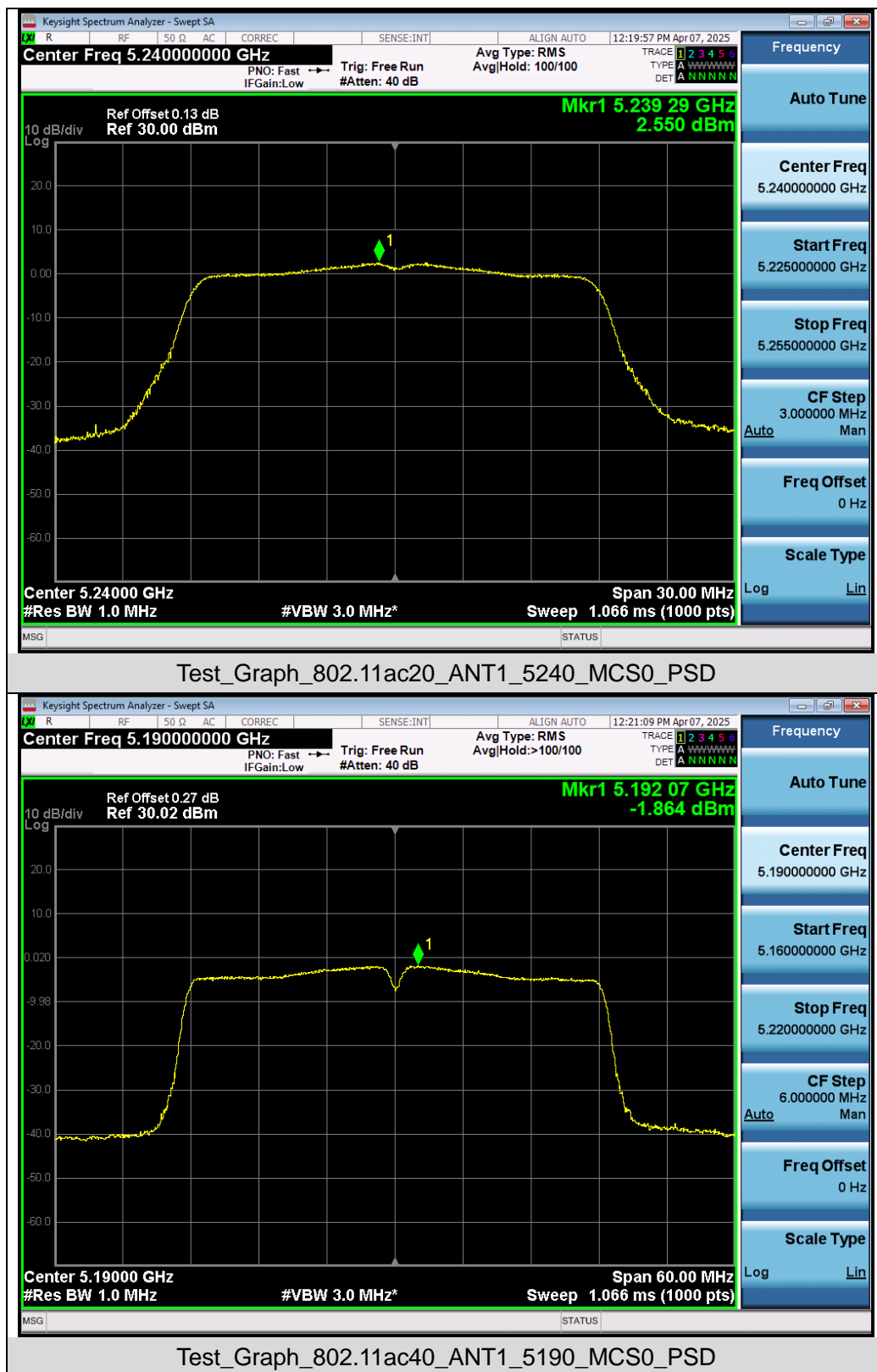
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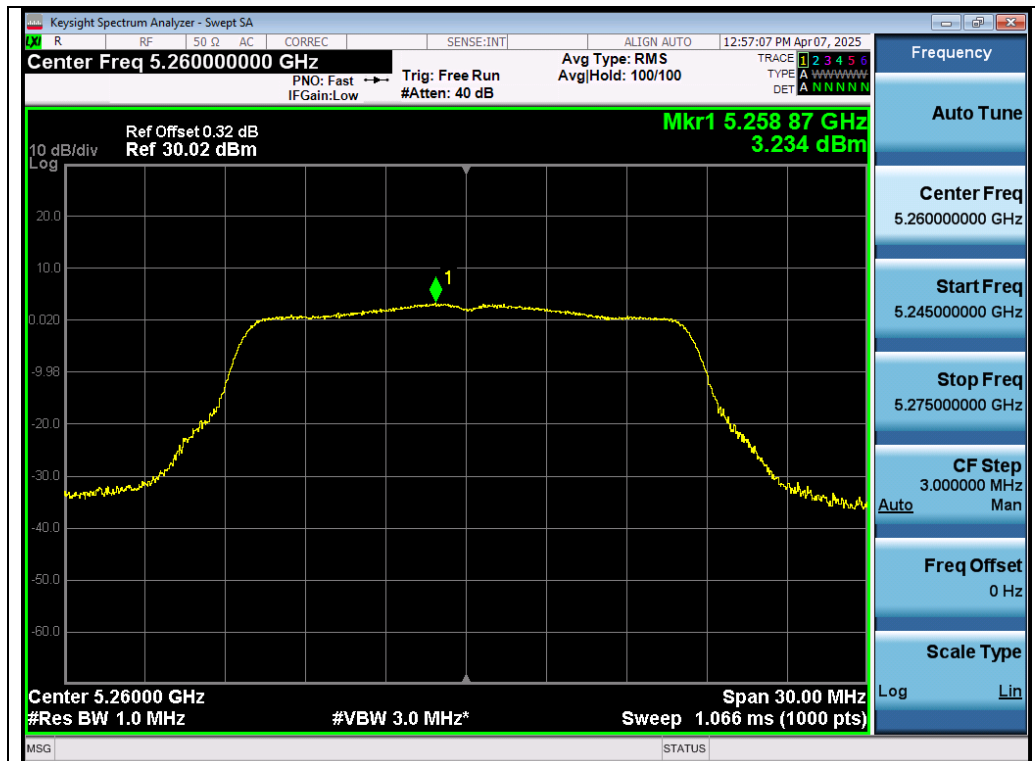




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### Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

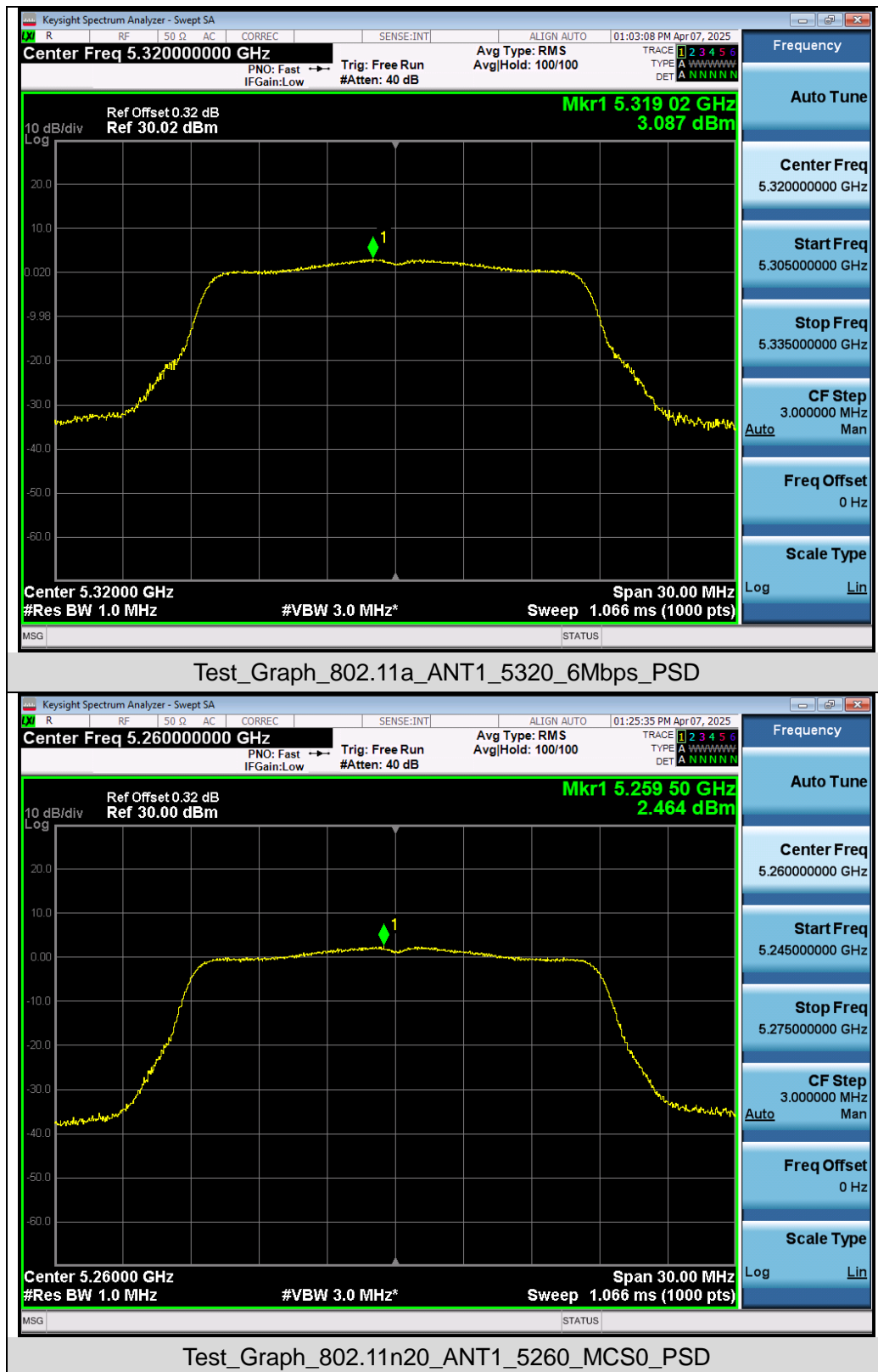


Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_PSD



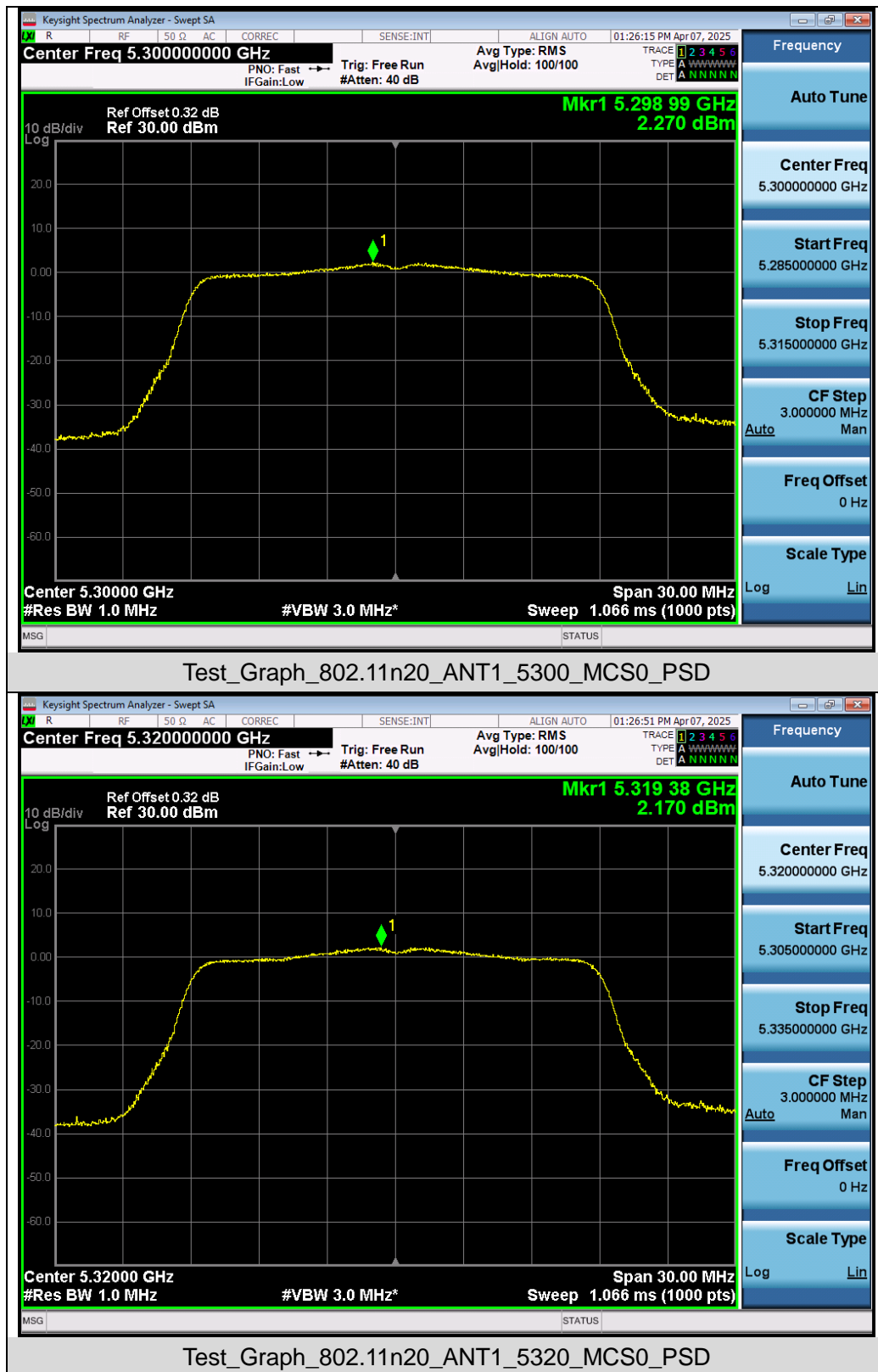
Test\_Graph\_802.11a\_ANT1\_5300\_6Mbps\_PSD

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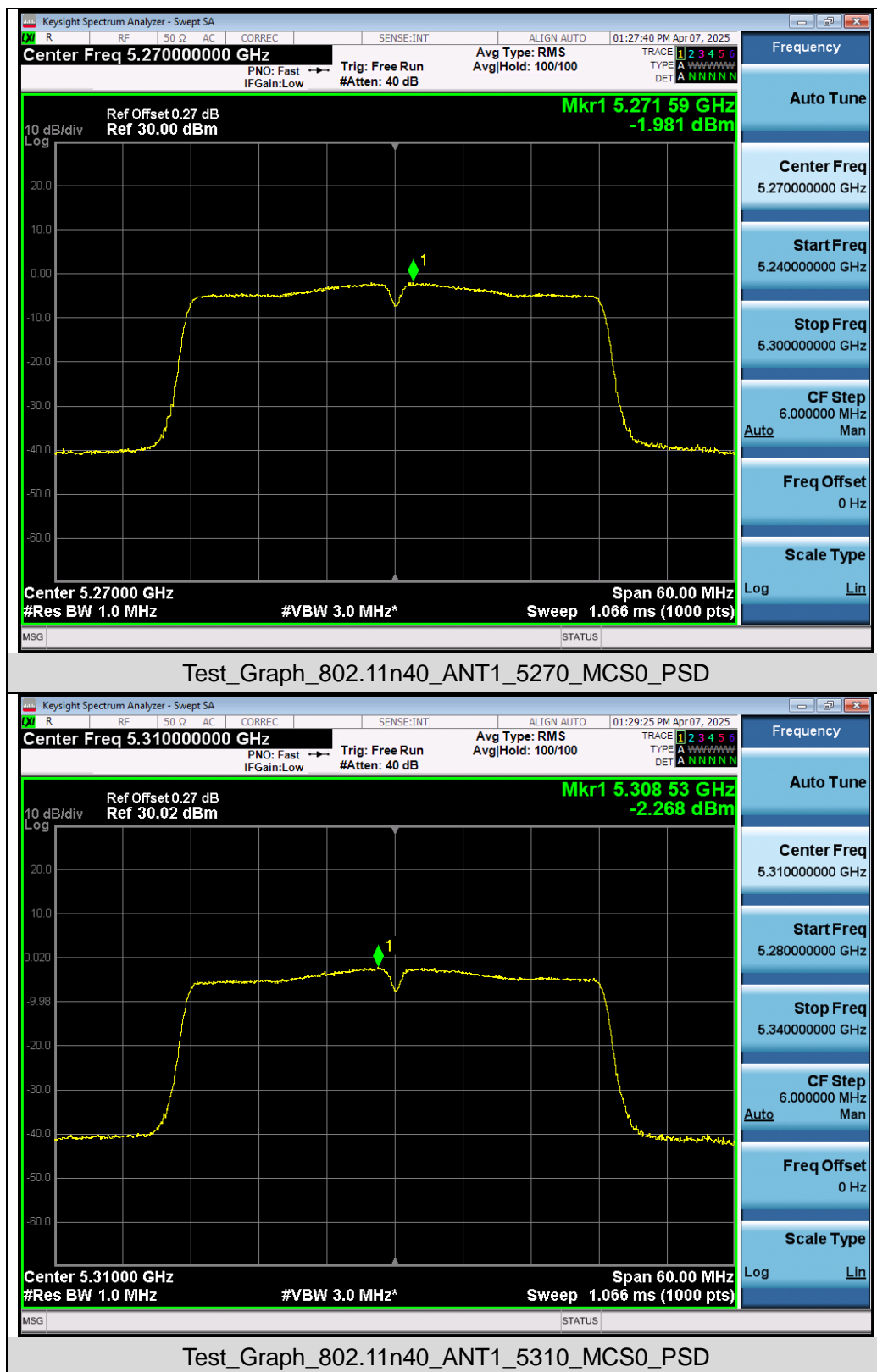


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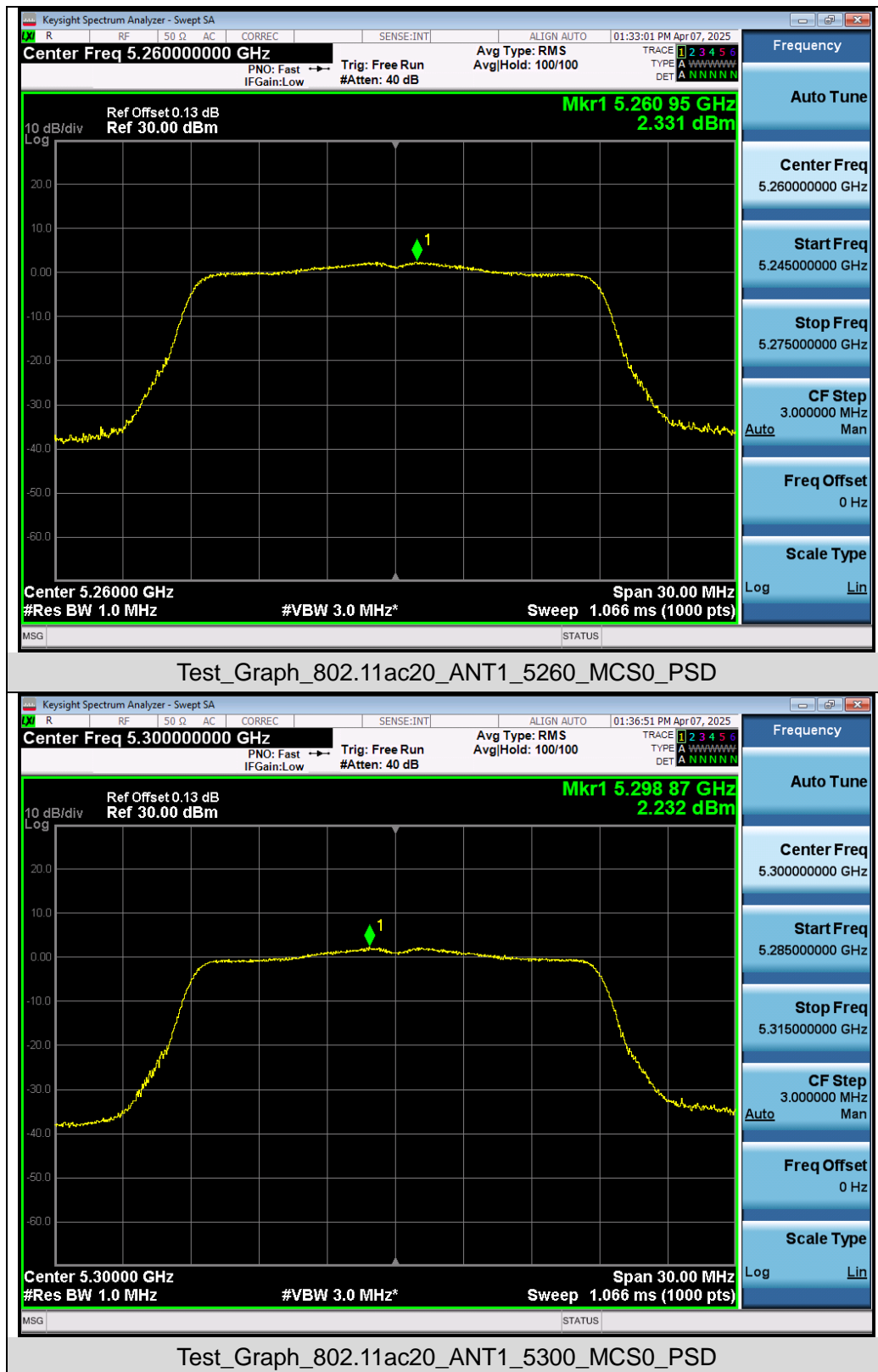
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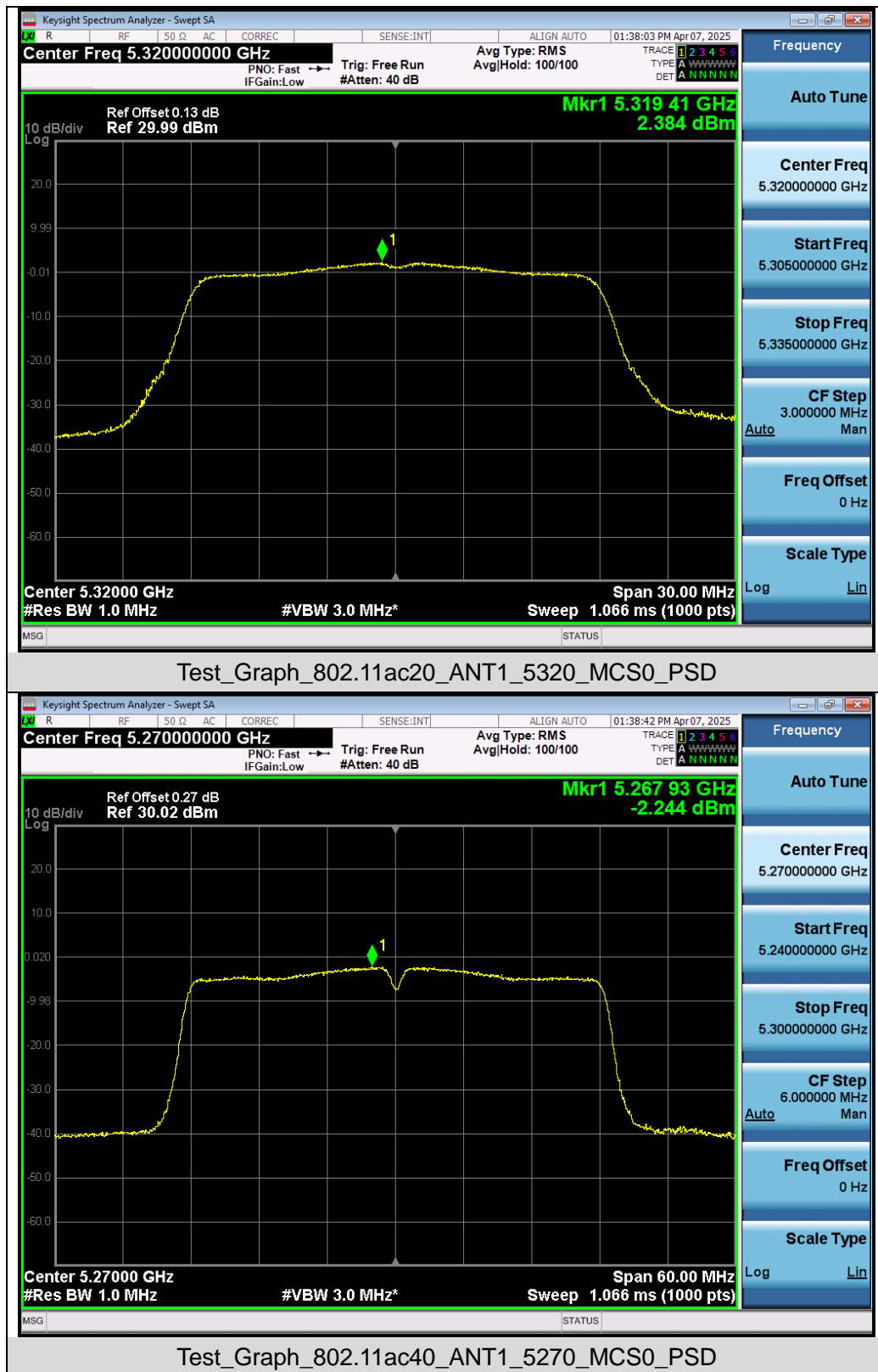
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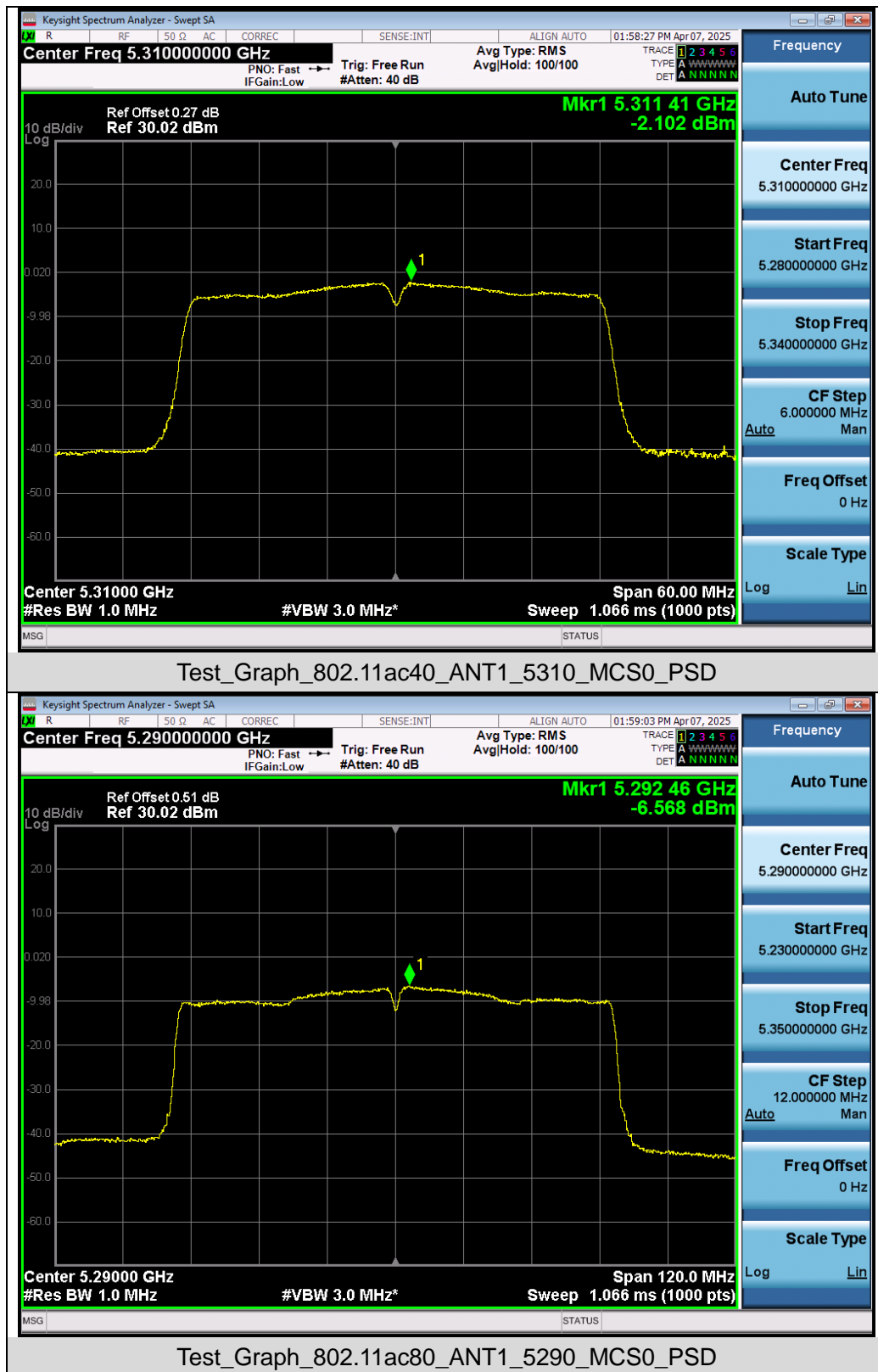


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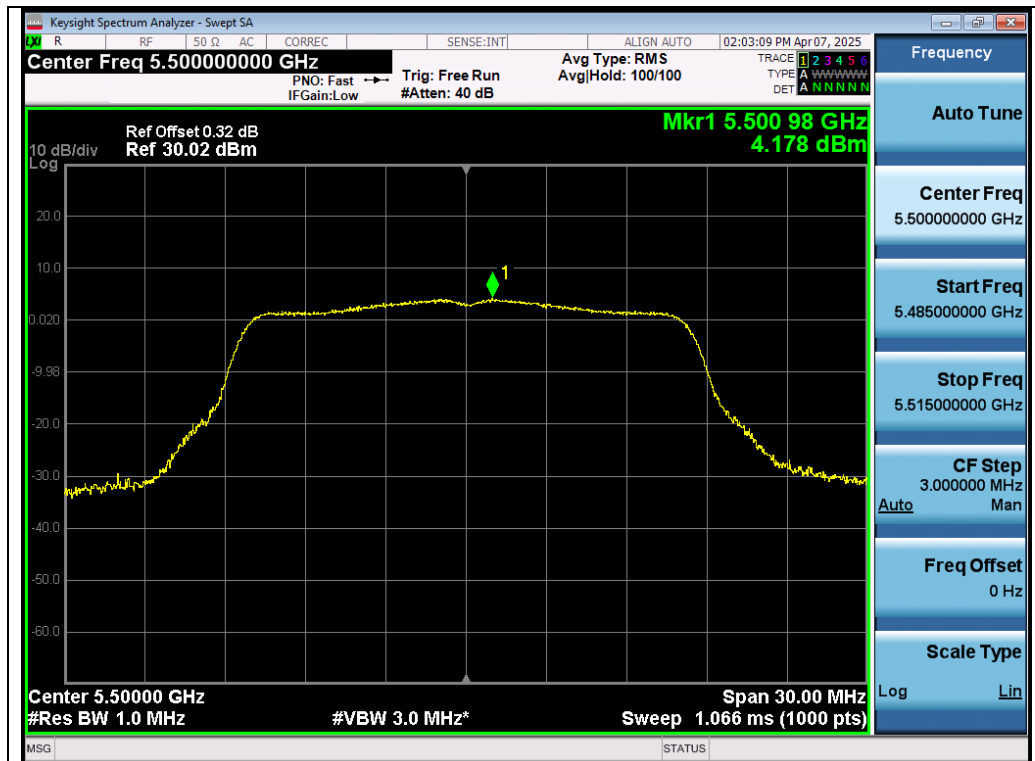
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### Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

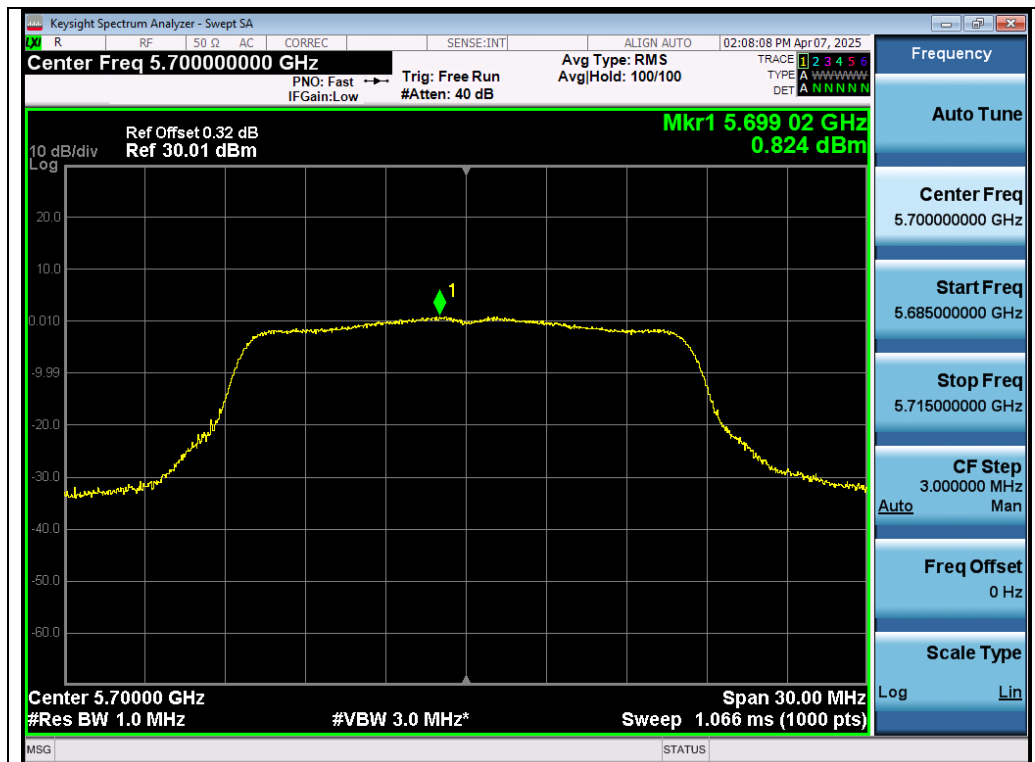


Test\_Graph\_802.11a\_ANT1\_5500\_6Mbps\_PSD

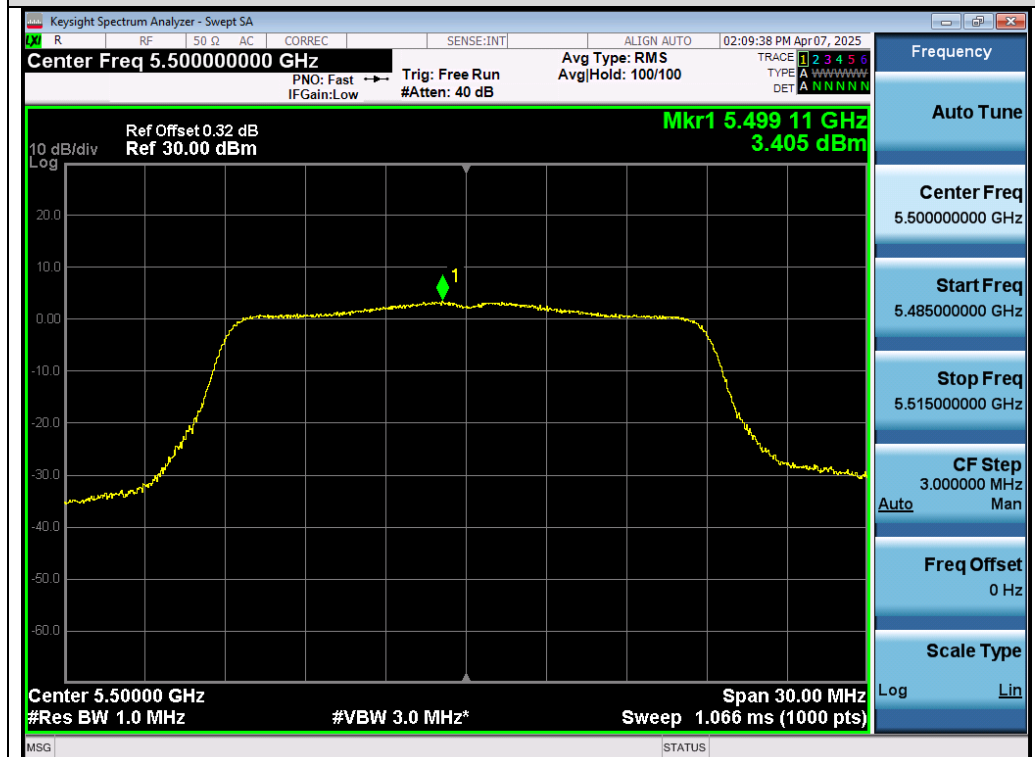


Test\_Graph\_802.11a\_ANT1\_5580\_6Mbps\_PSD

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Test\_Graph\_802.11a\_ANT1\_5700\_6Mbps\_PSD

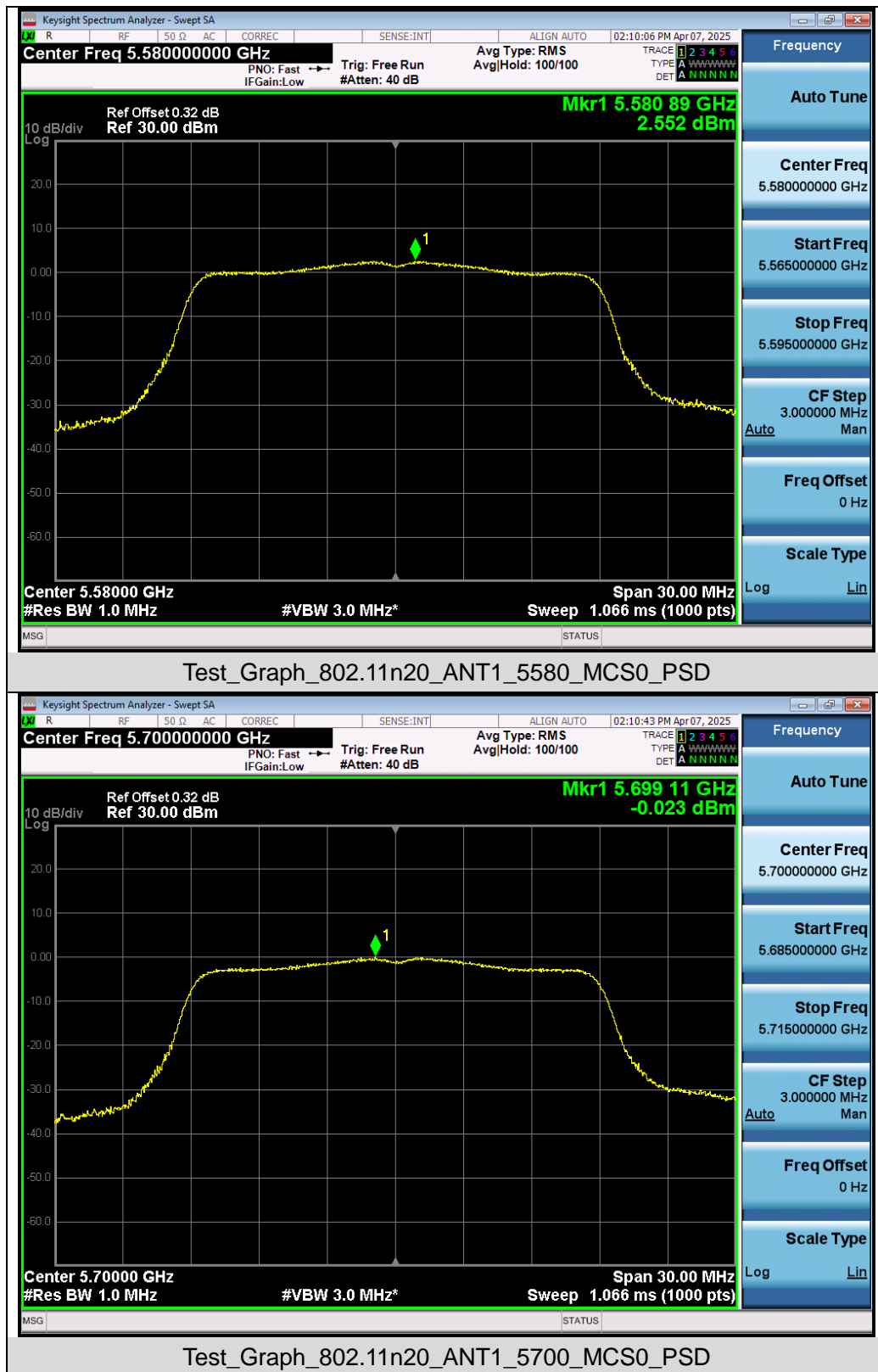


Test\_Graph\_802.11n20\_ANT1\_5500\_MCS0\_PSD

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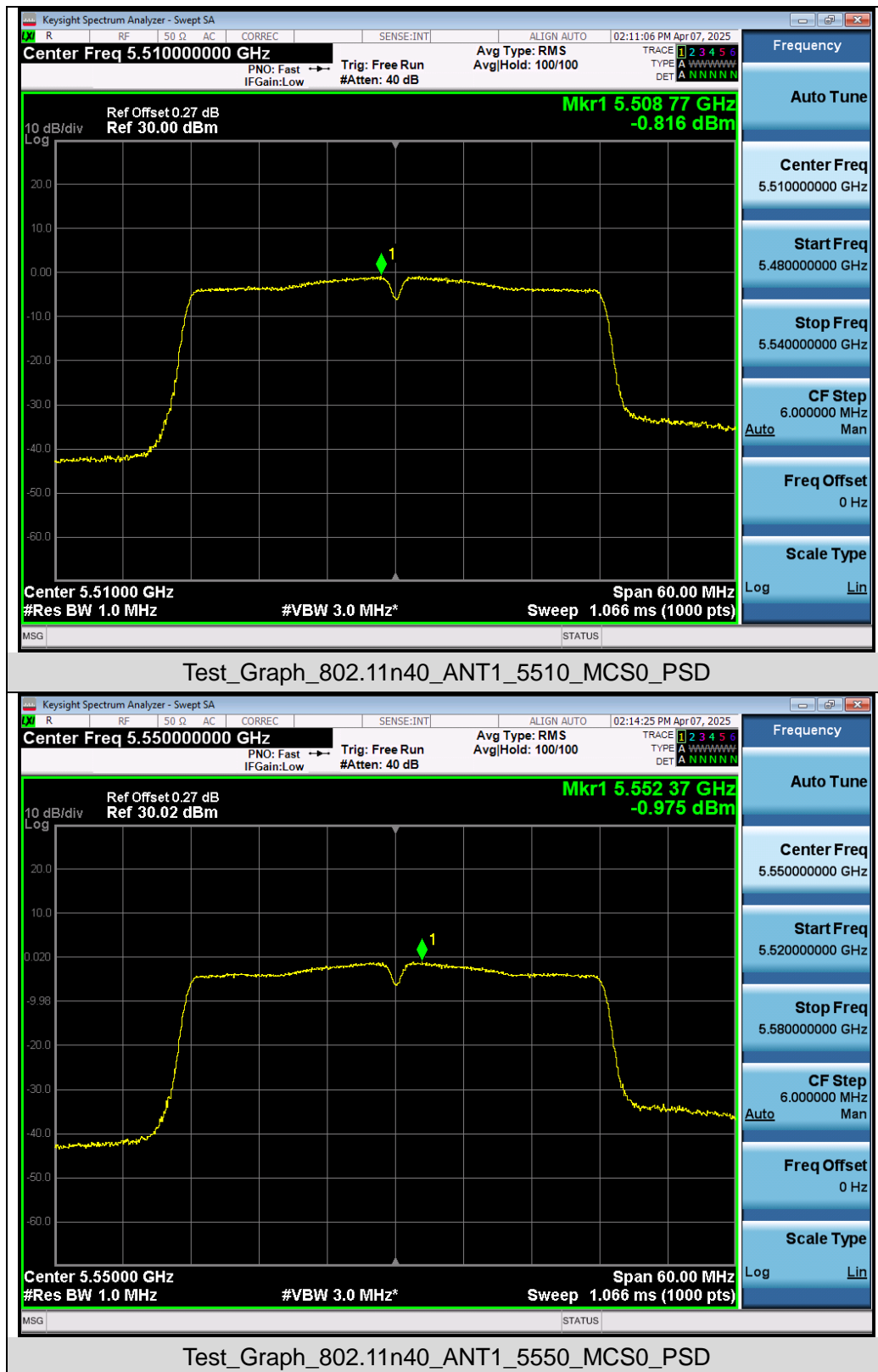
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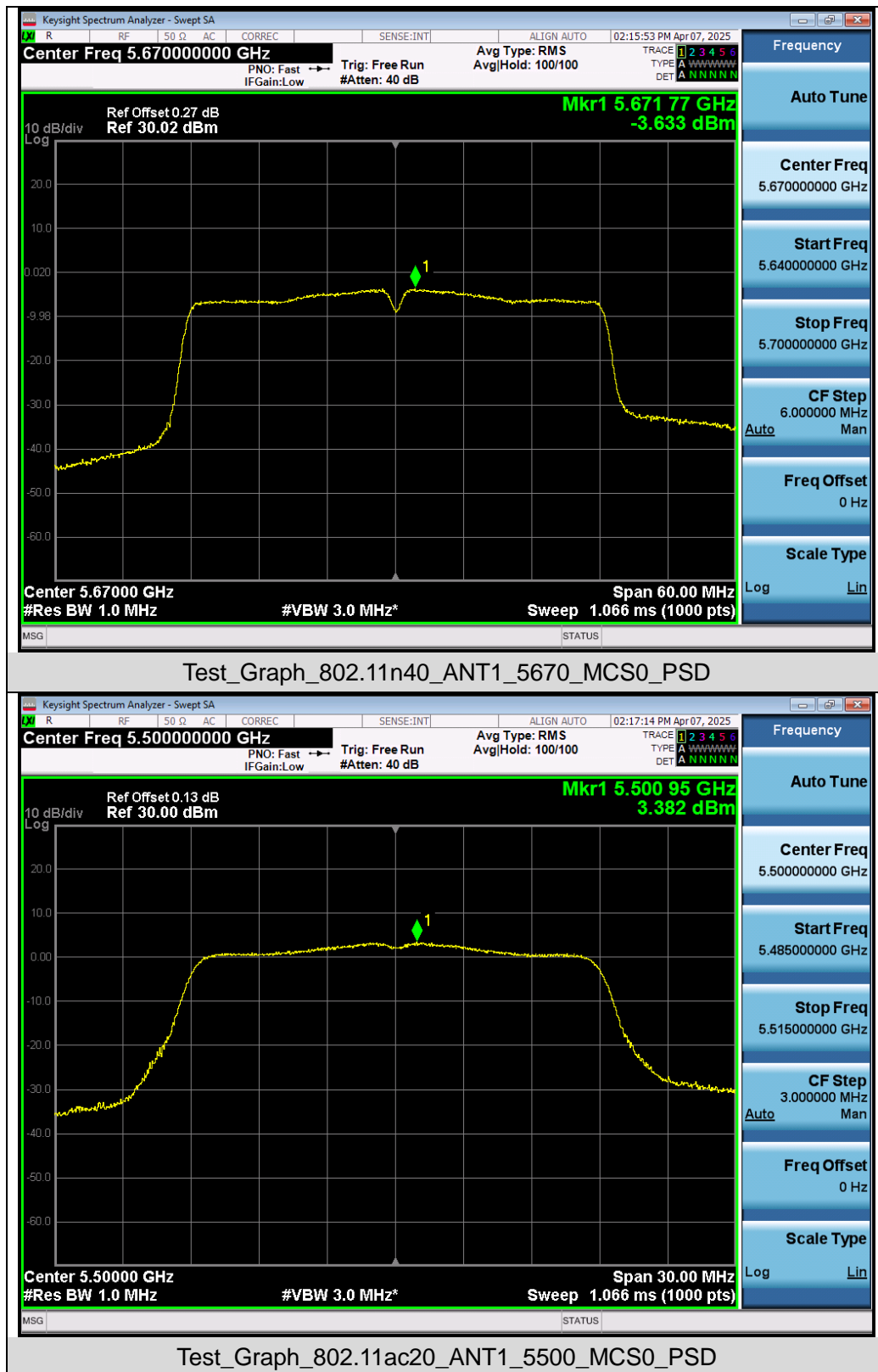


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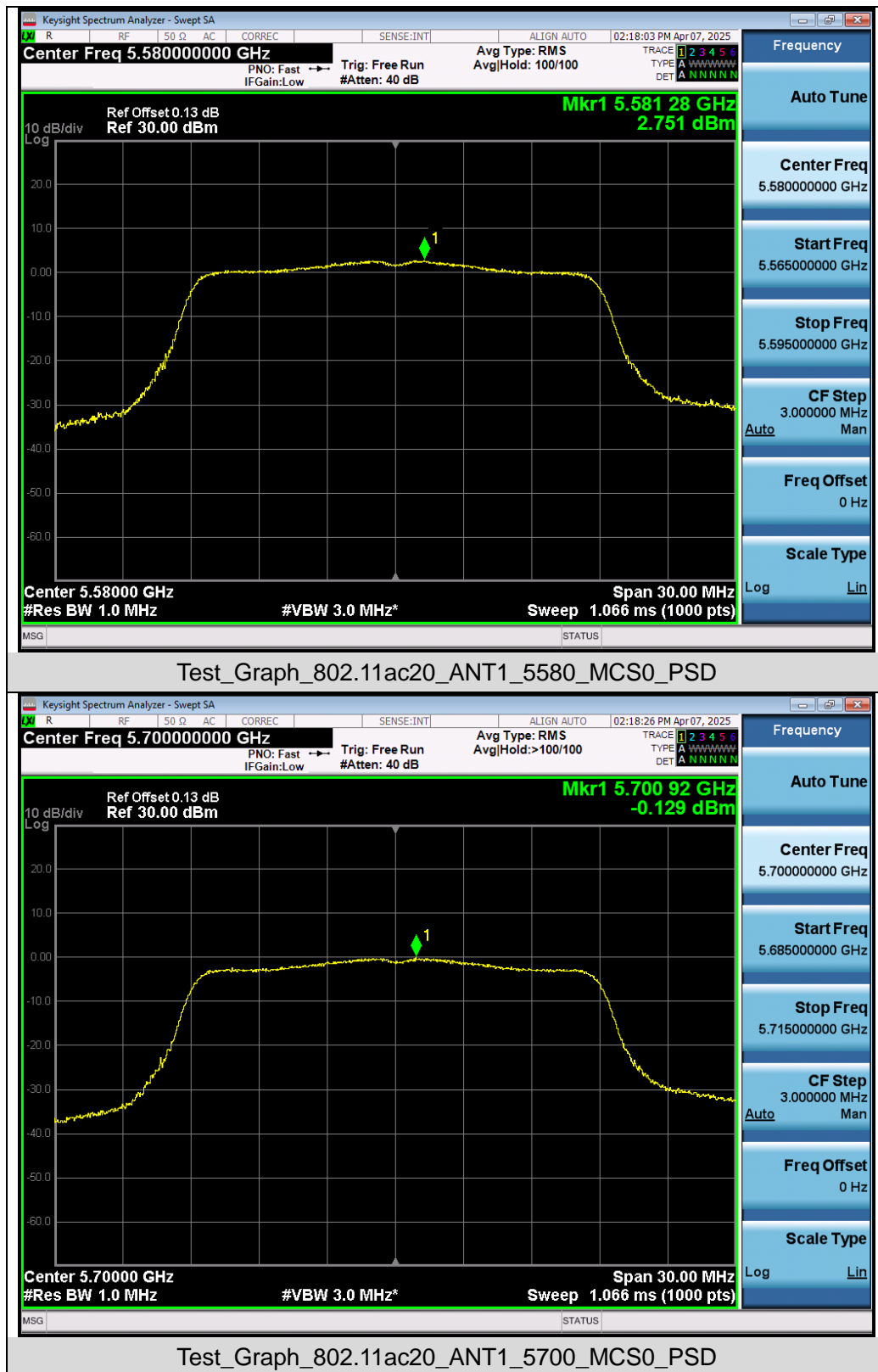


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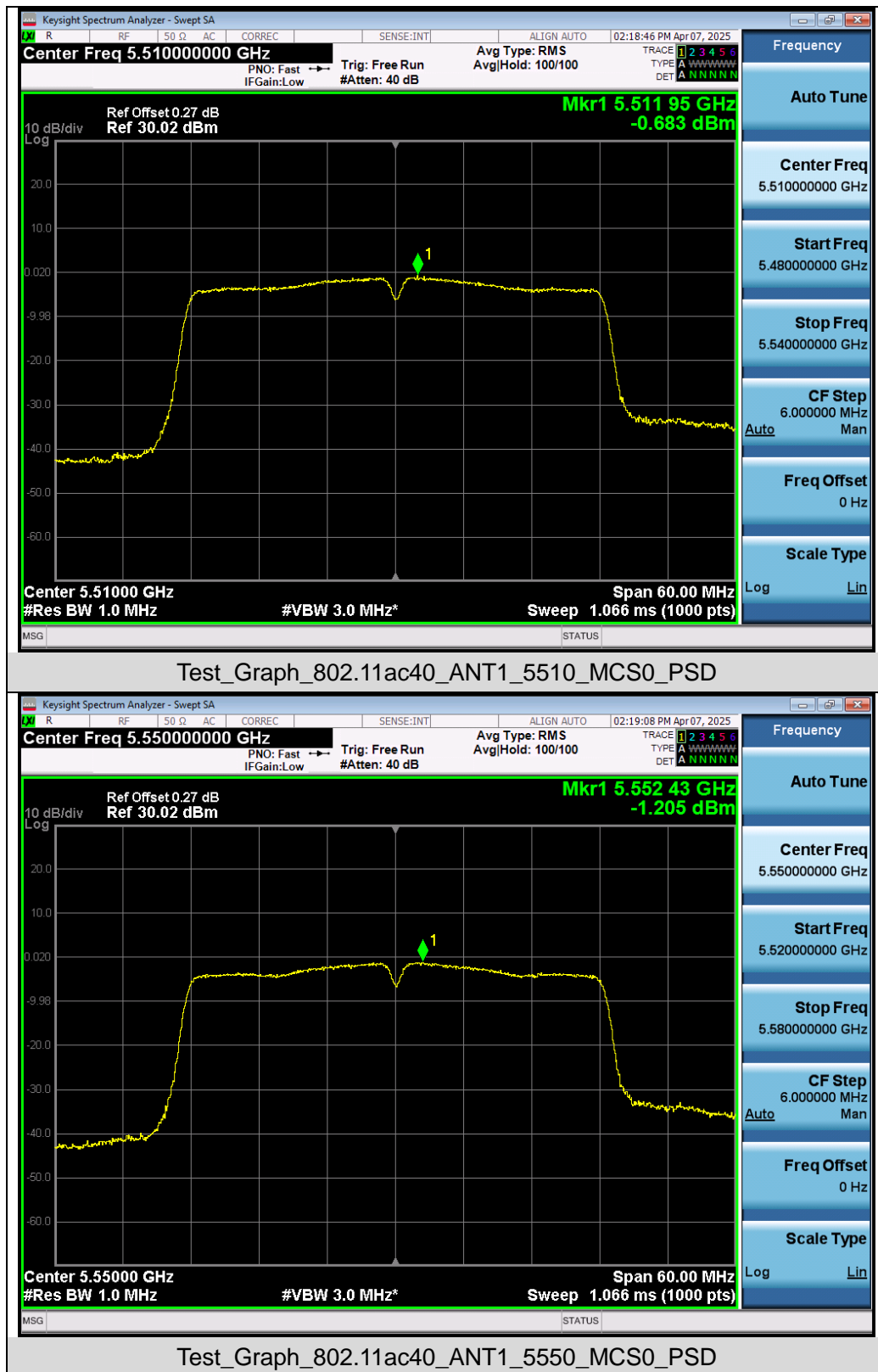
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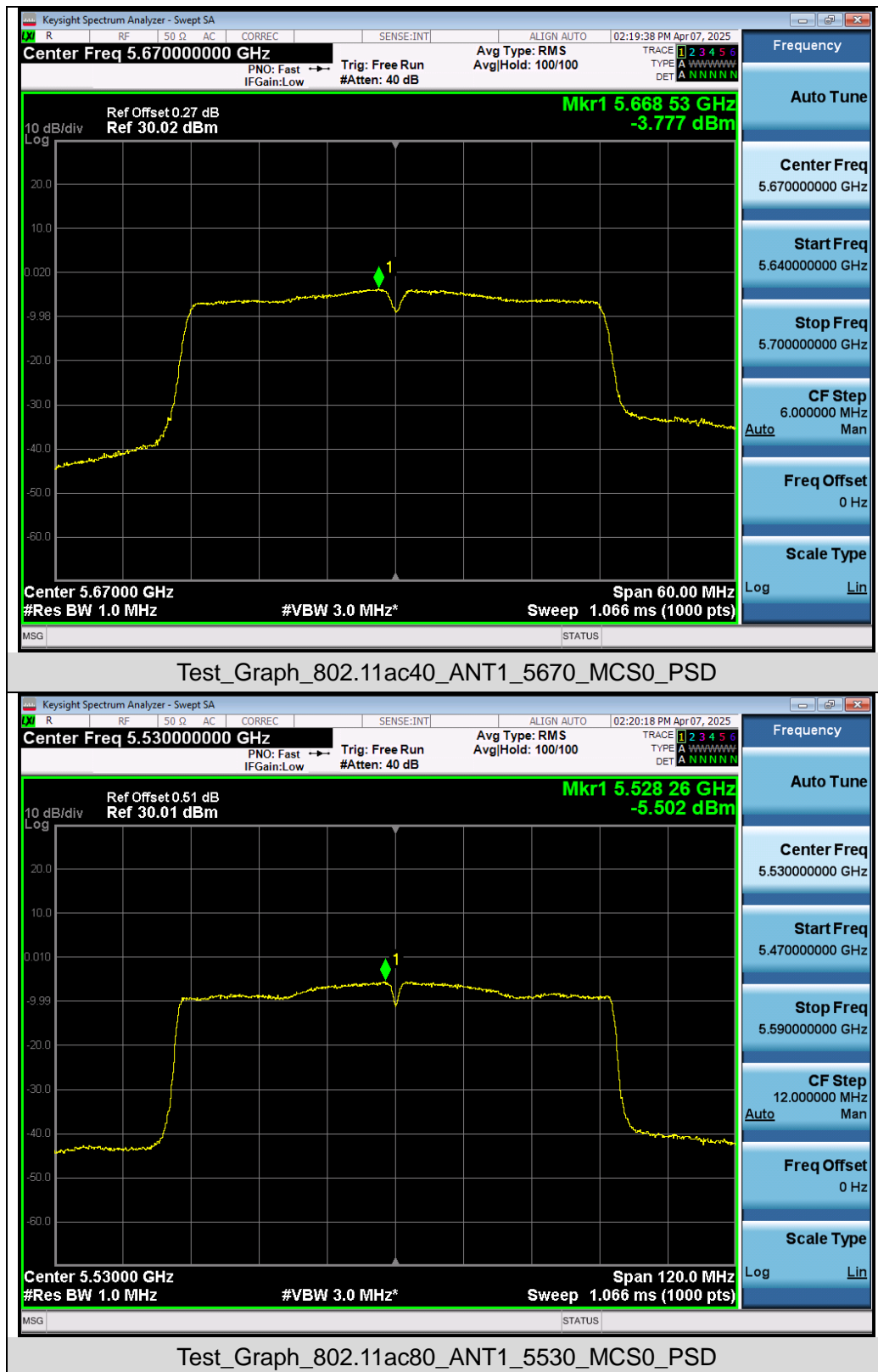
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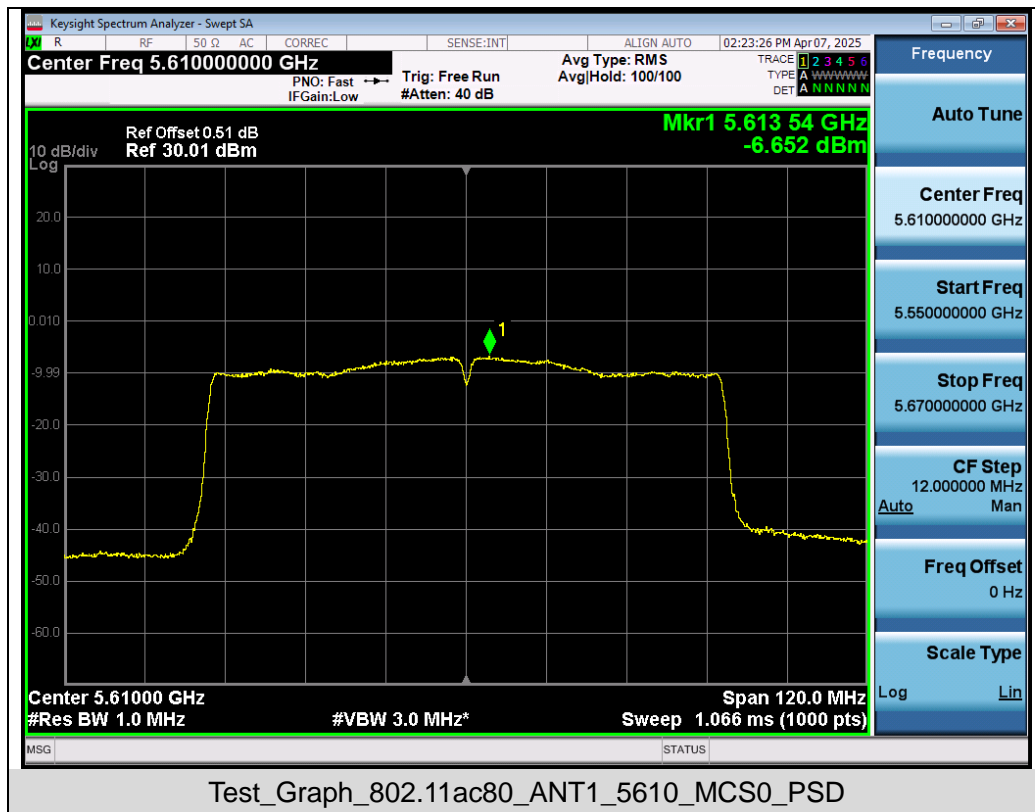
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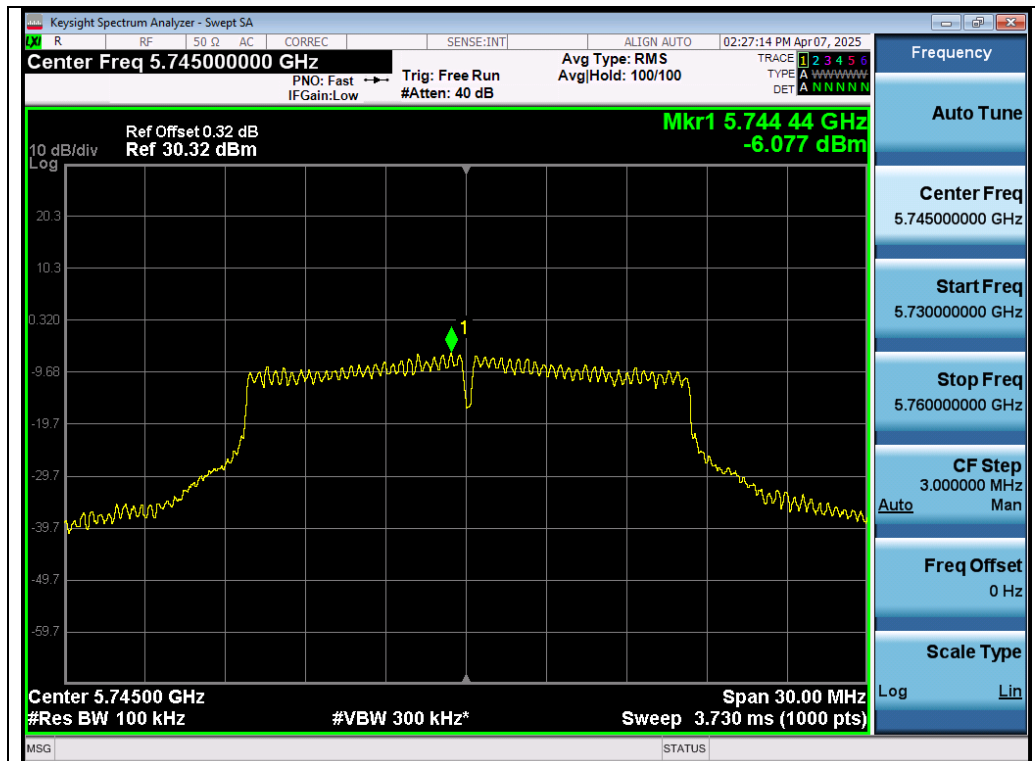
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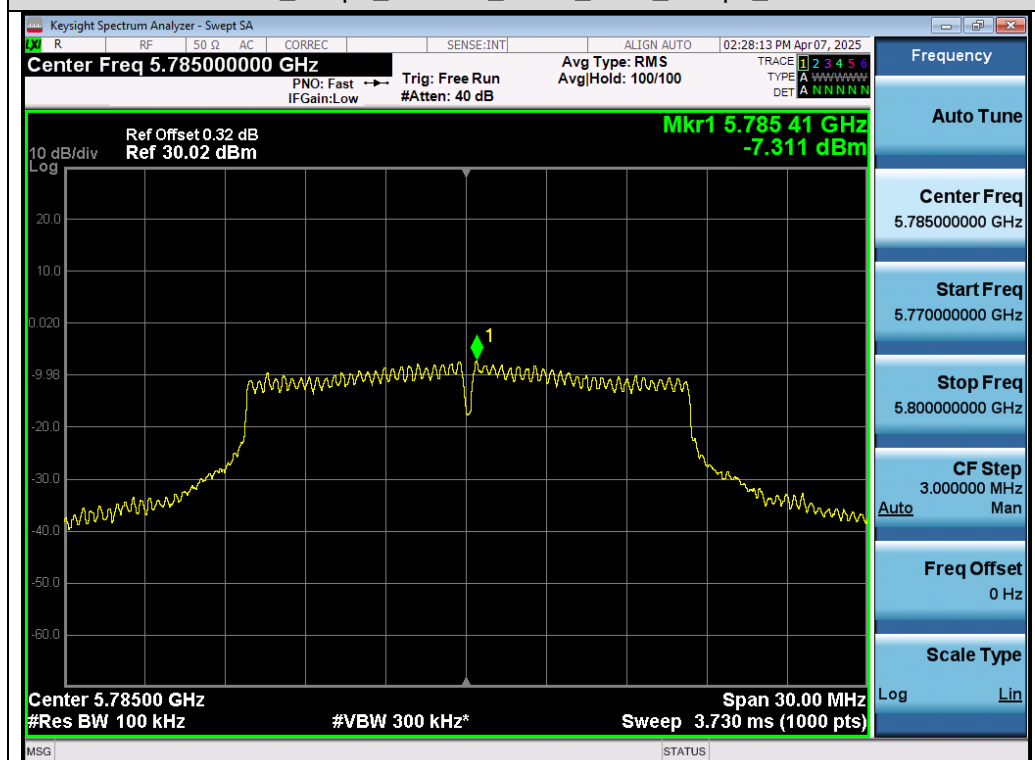
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### Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

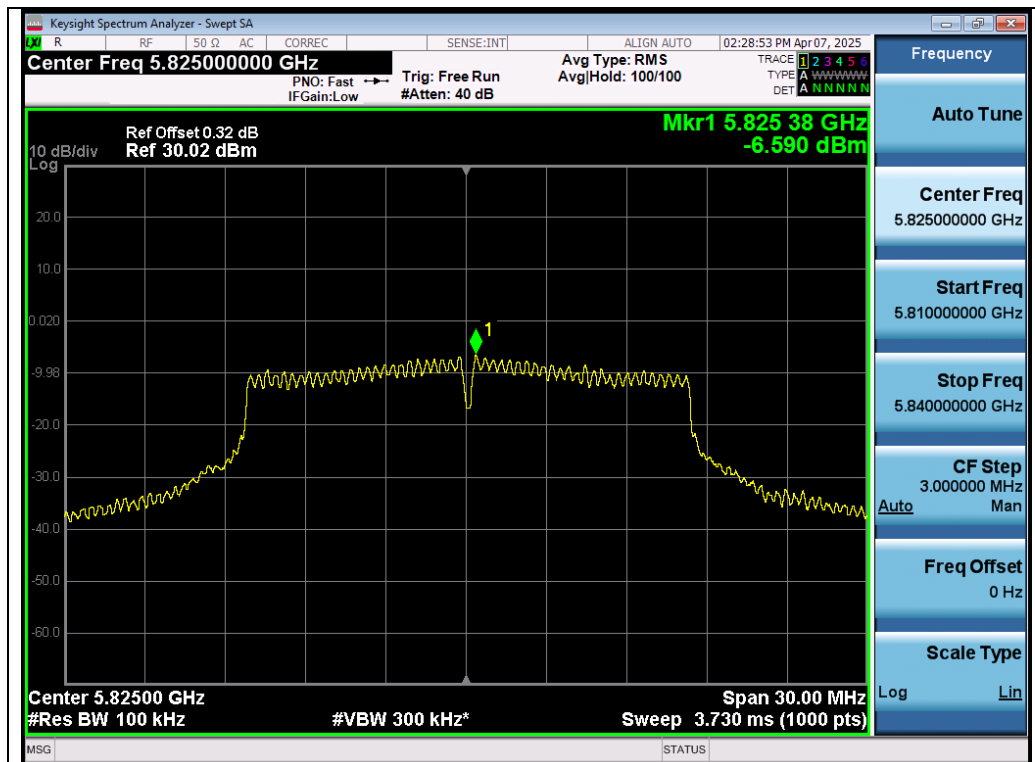


Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_PSD

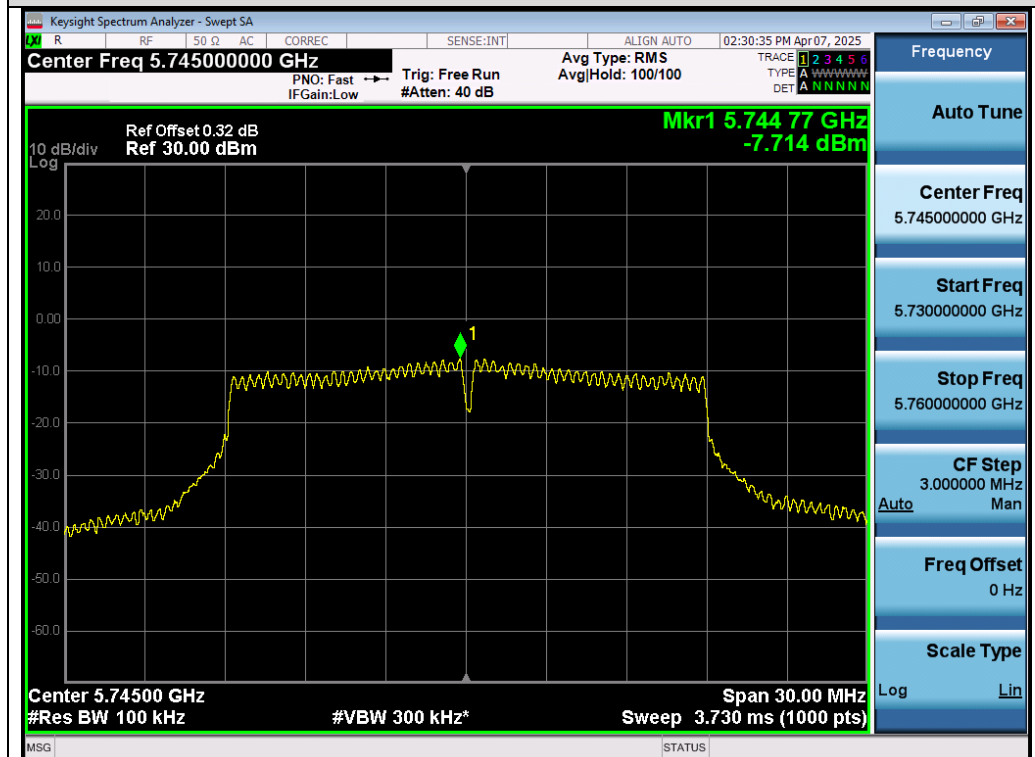


Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_PSD

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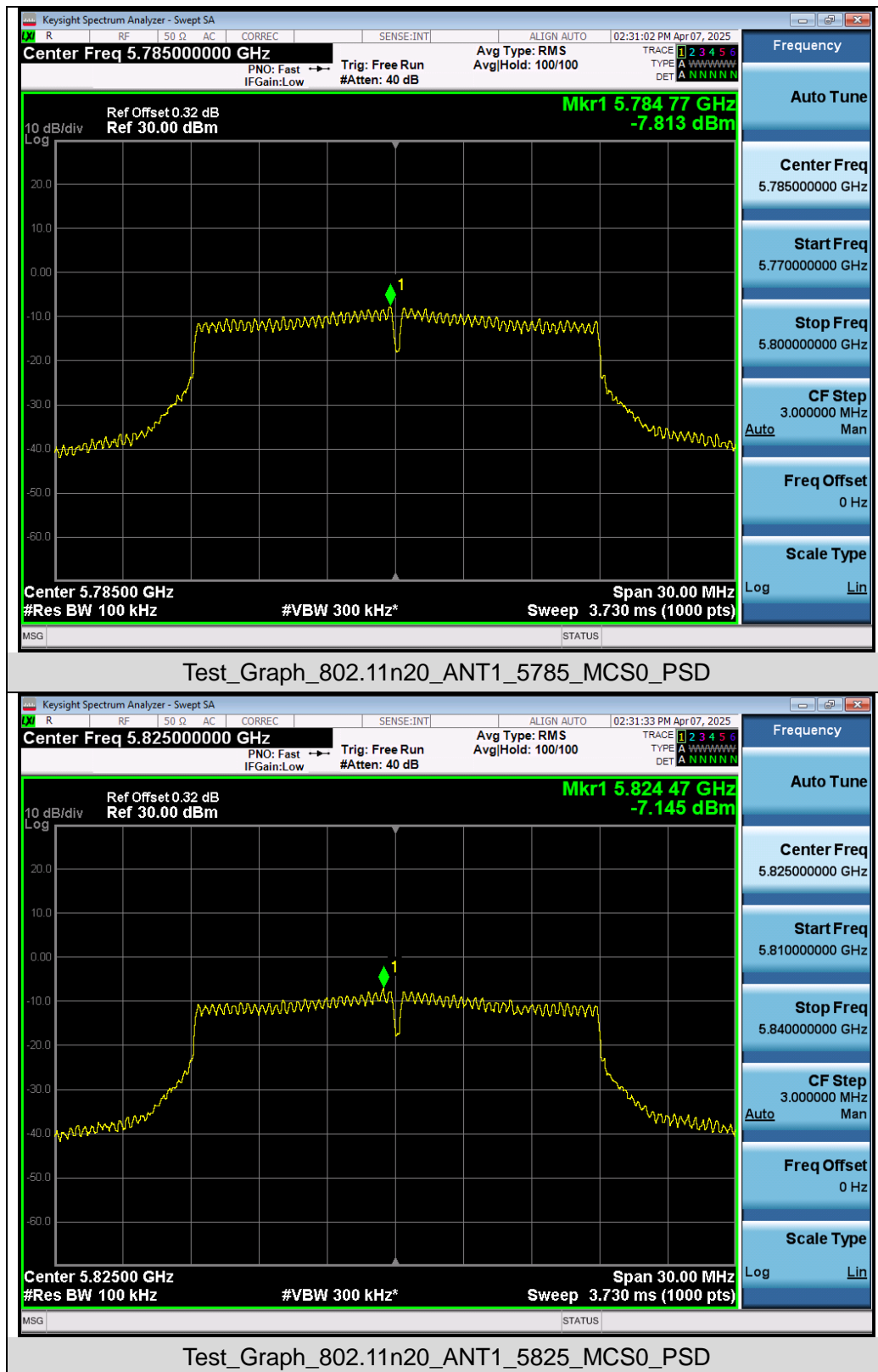
Test\_Graph\_802.11a\_ANT1\_5825\_6Mbps\_PSD



Test\_Graph\_802.11n20\_ANT1\_5745\_MCS0\_PSD

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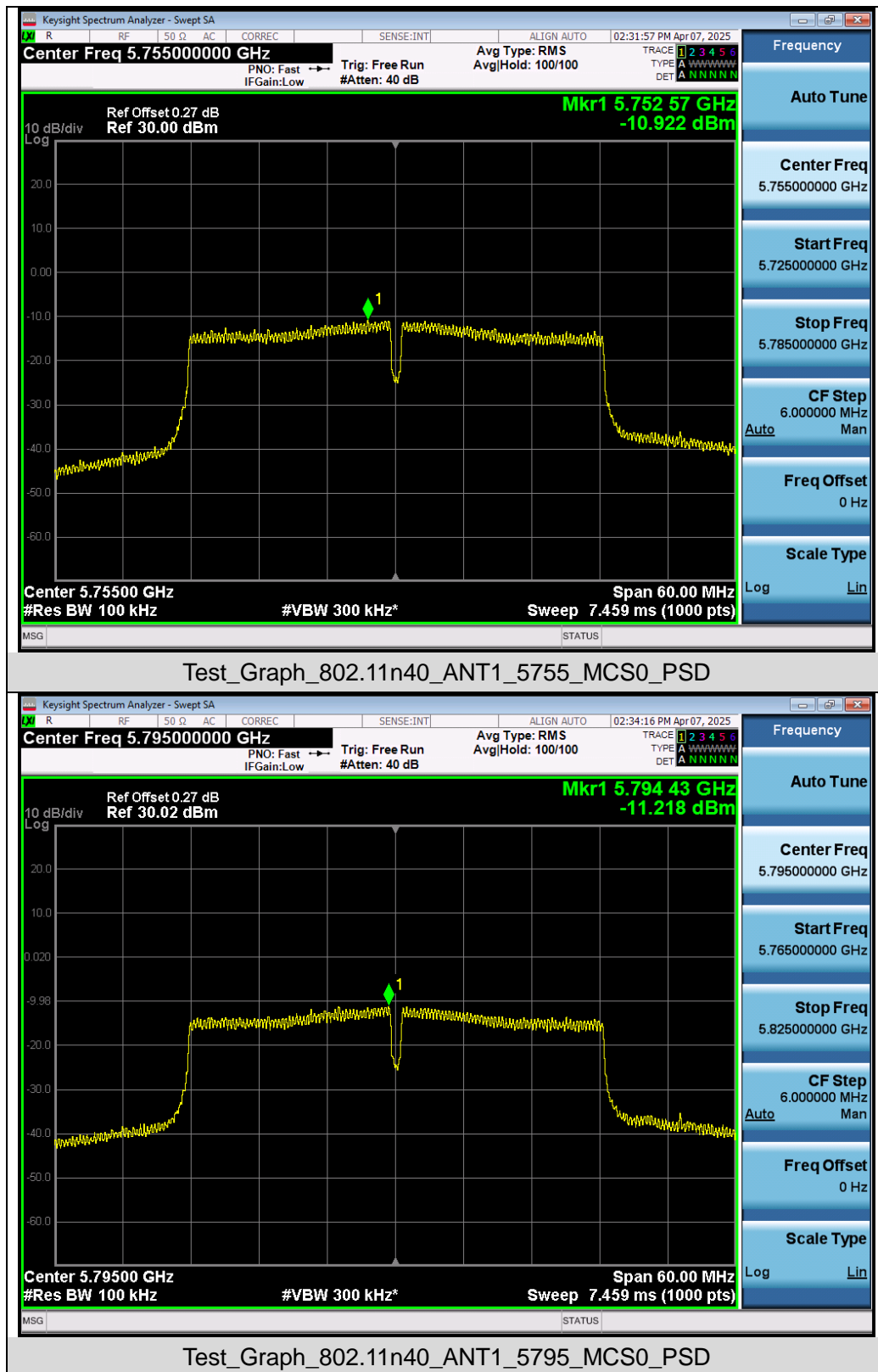
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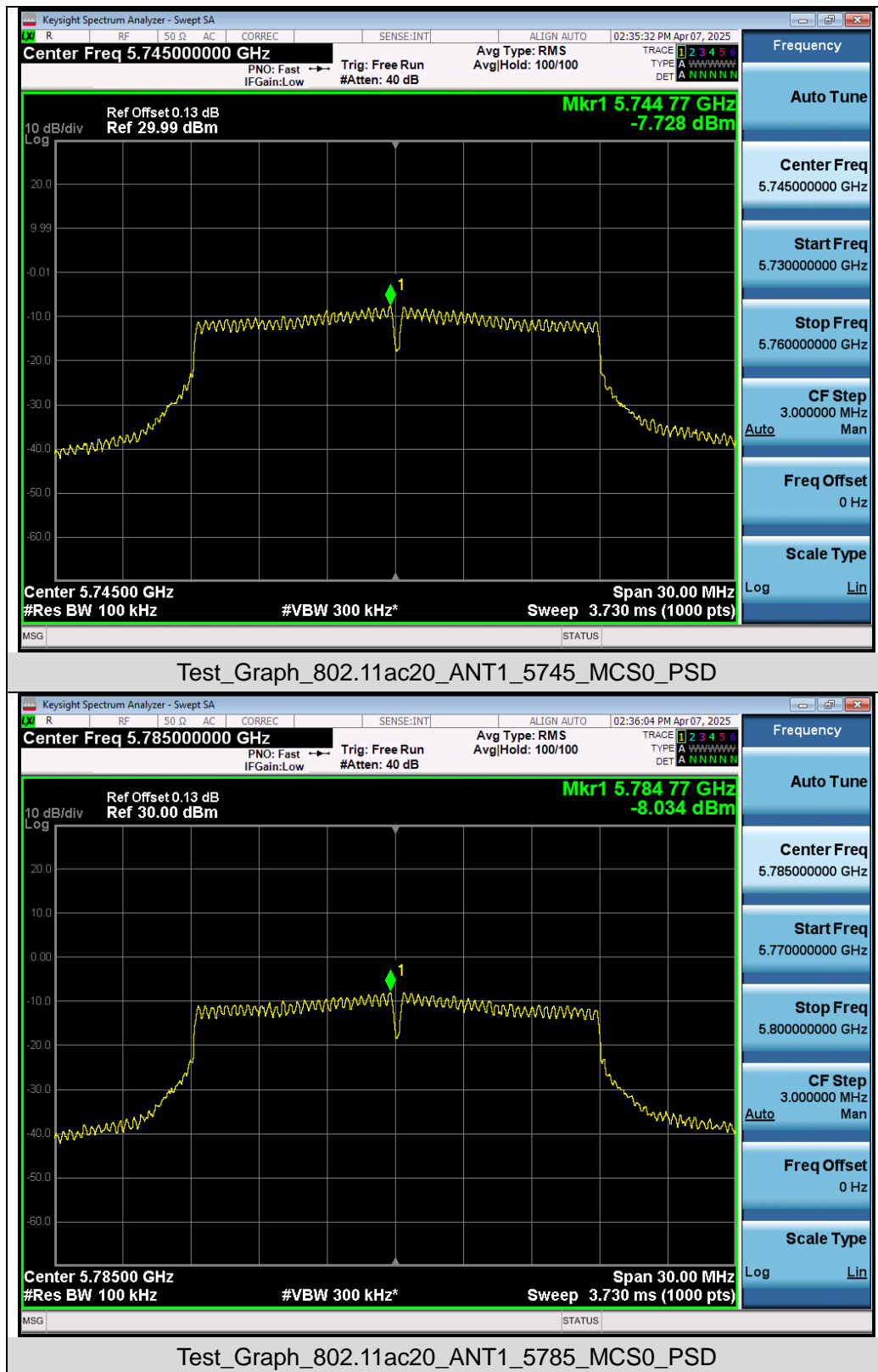
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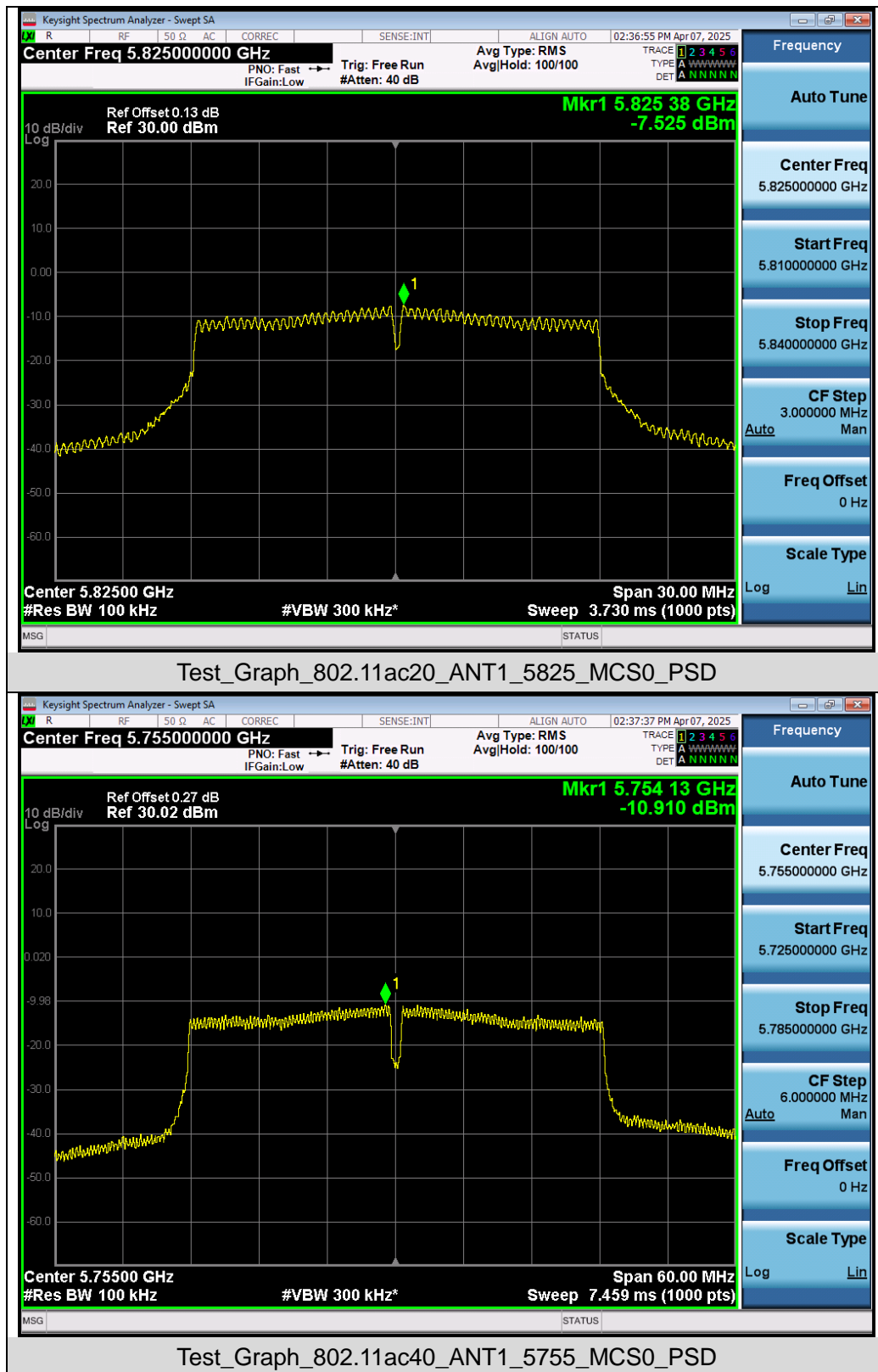
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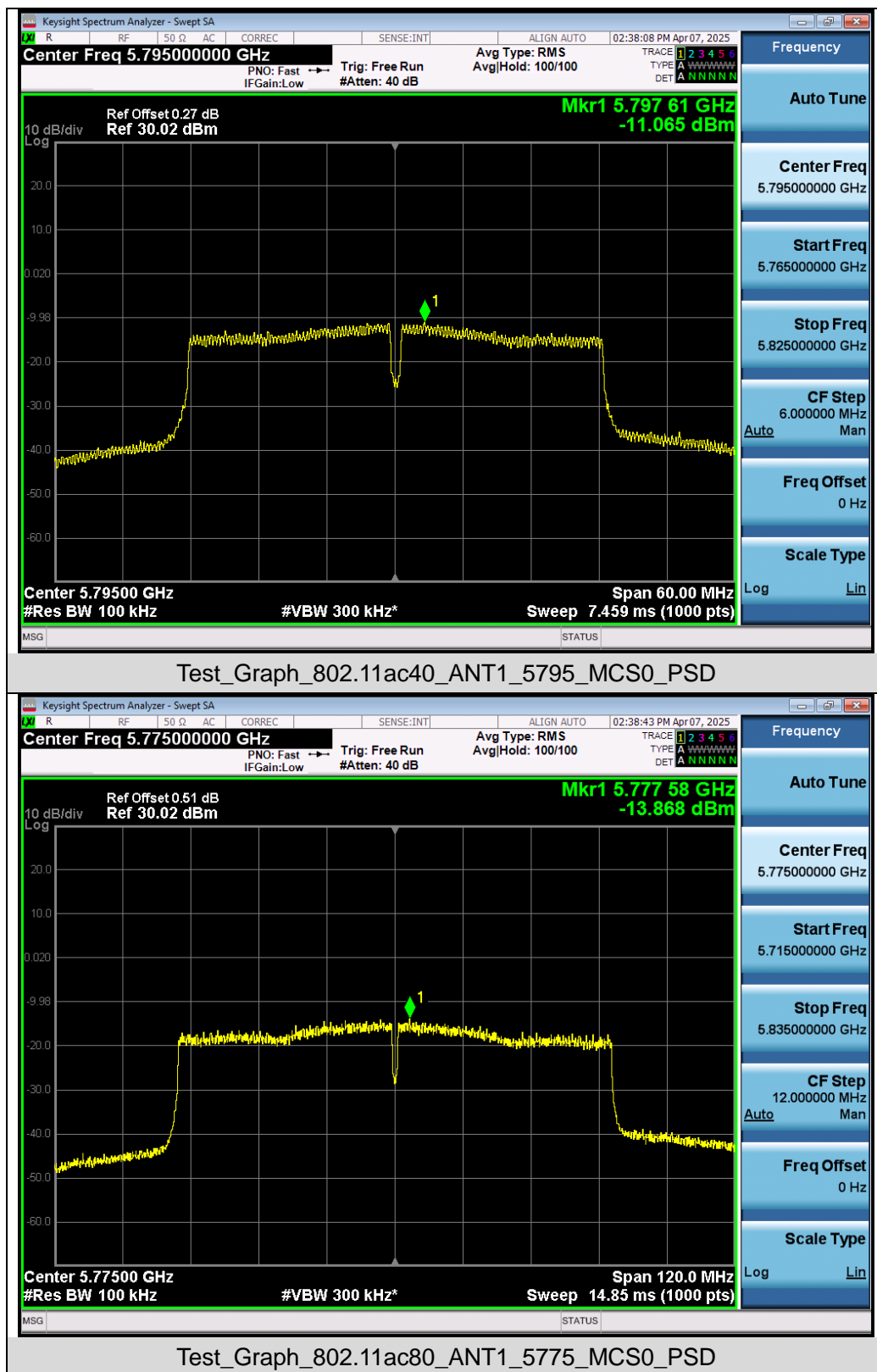
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## 10. Conducted Band Edge and Out-of-Band Emissions

### 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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