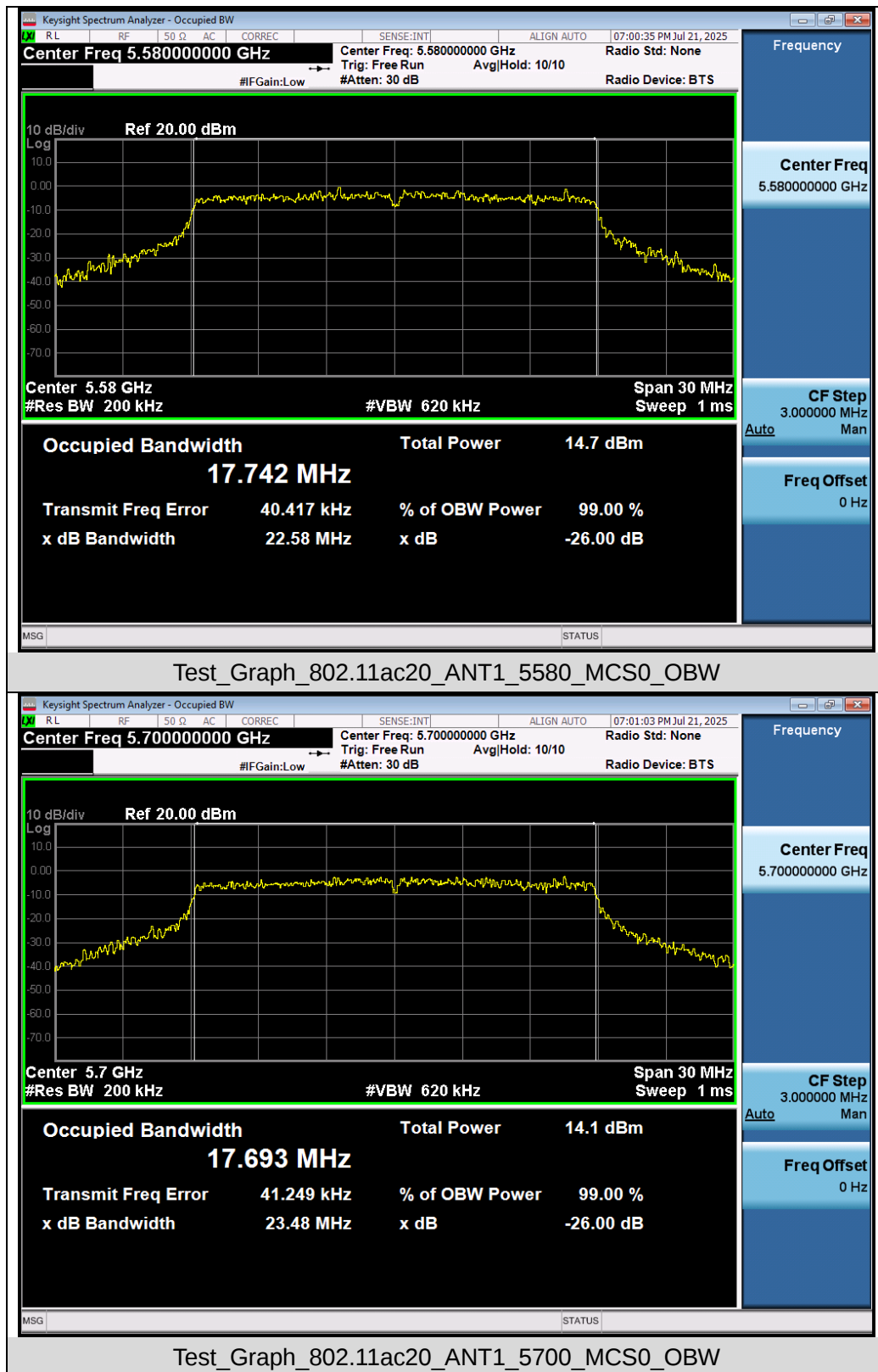
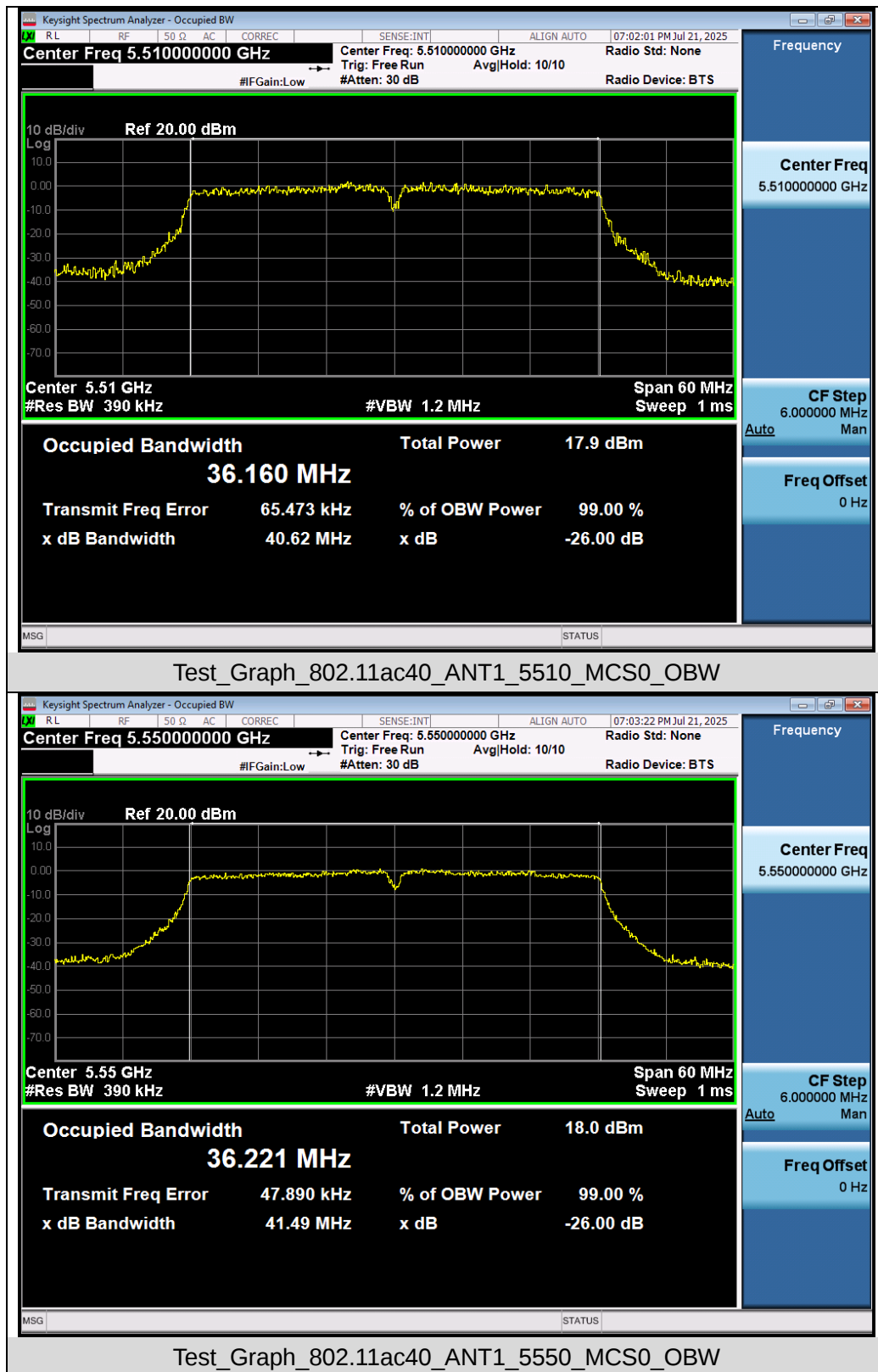


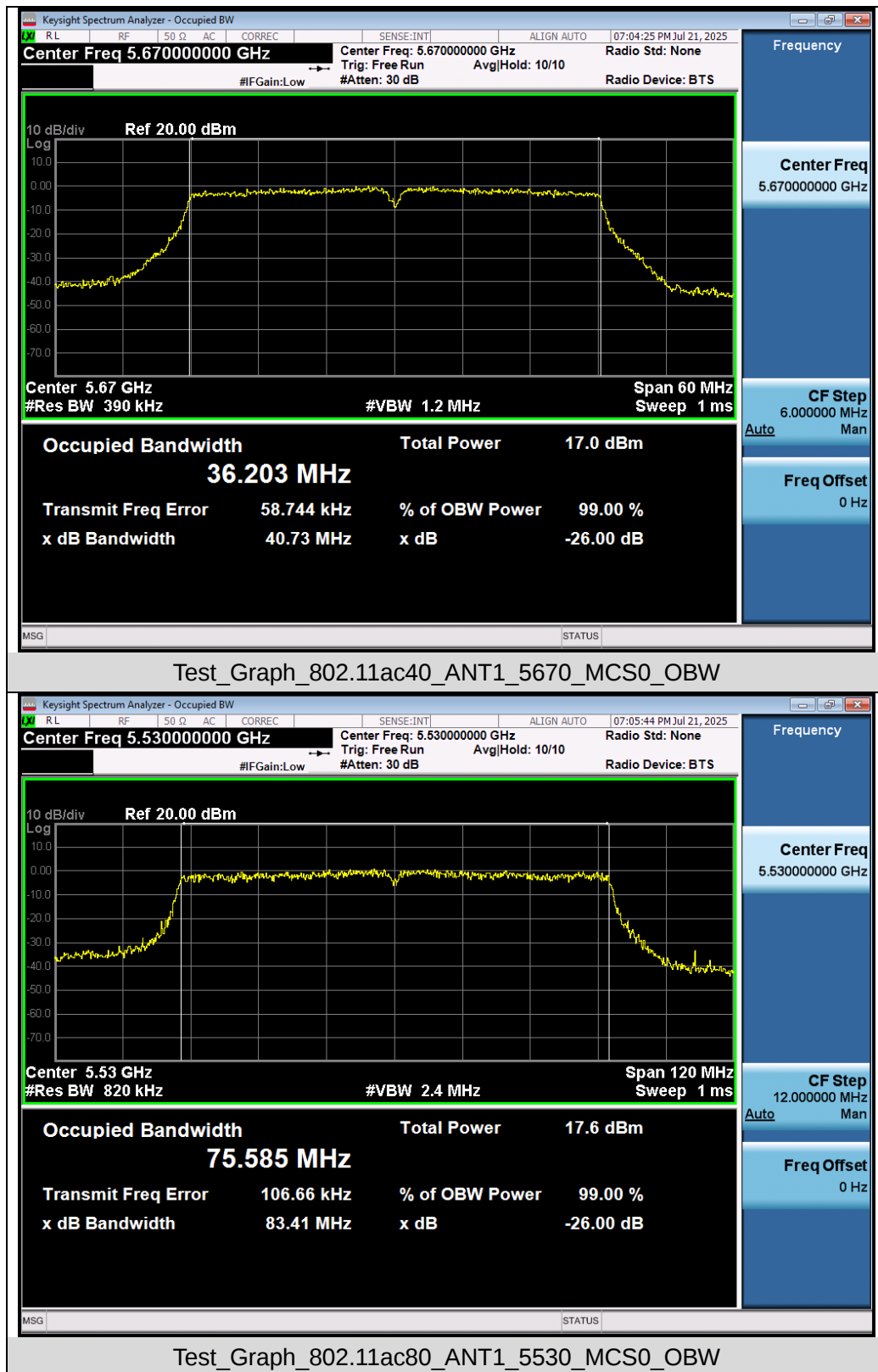


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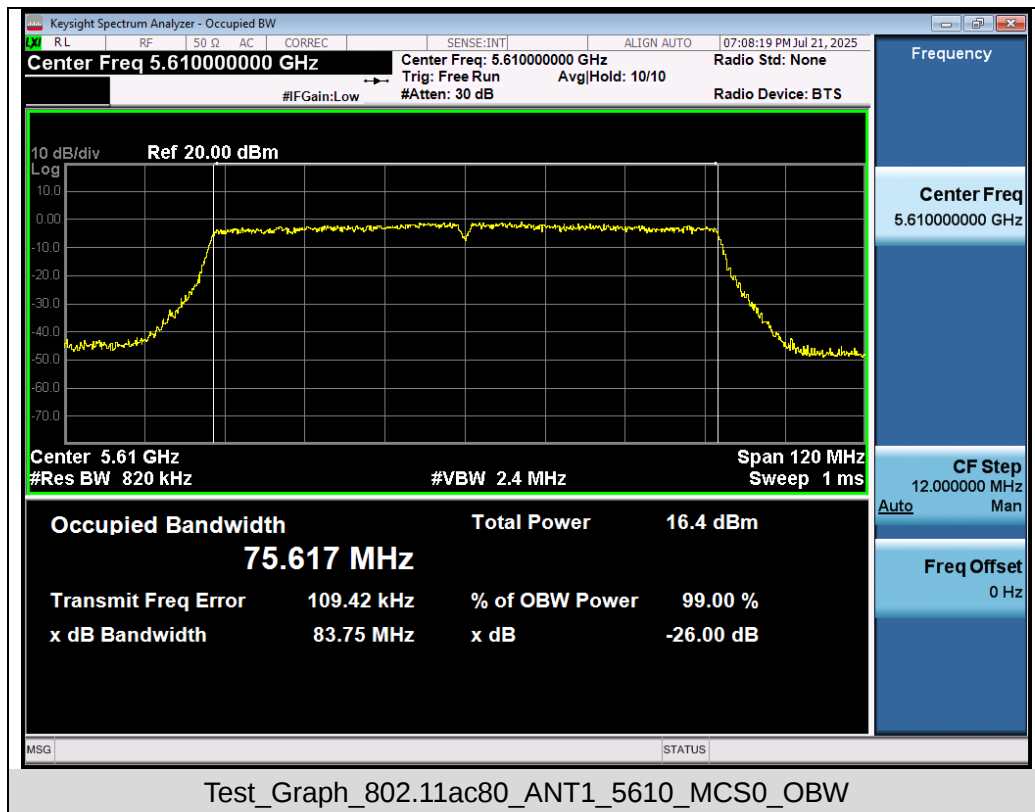
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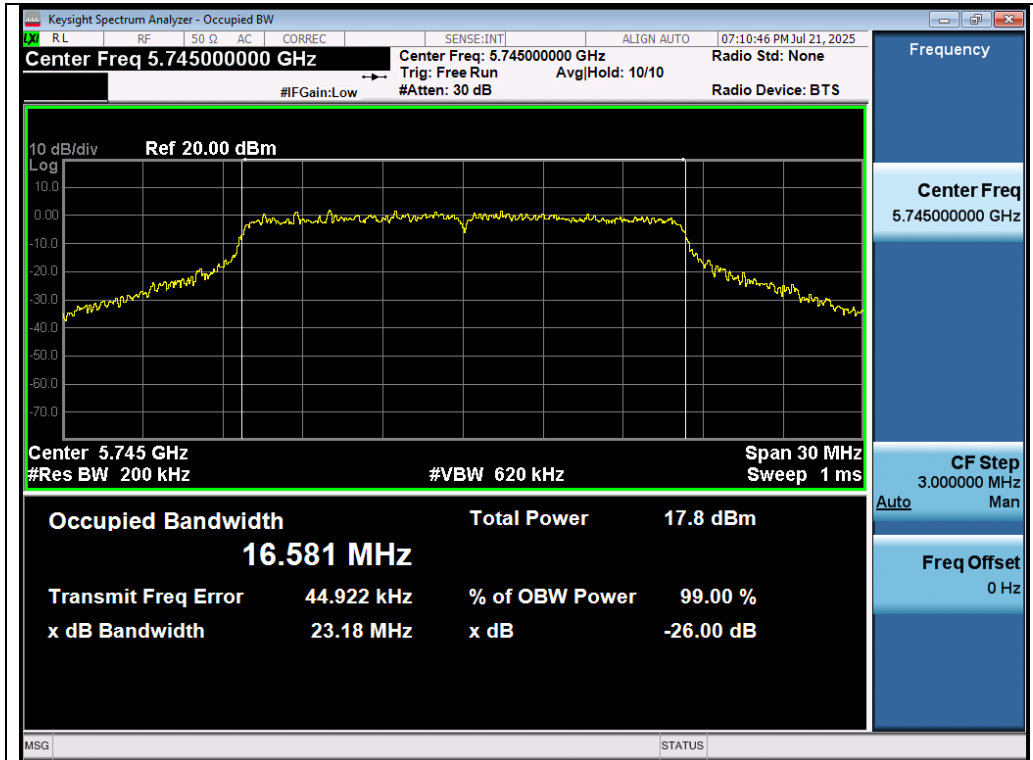
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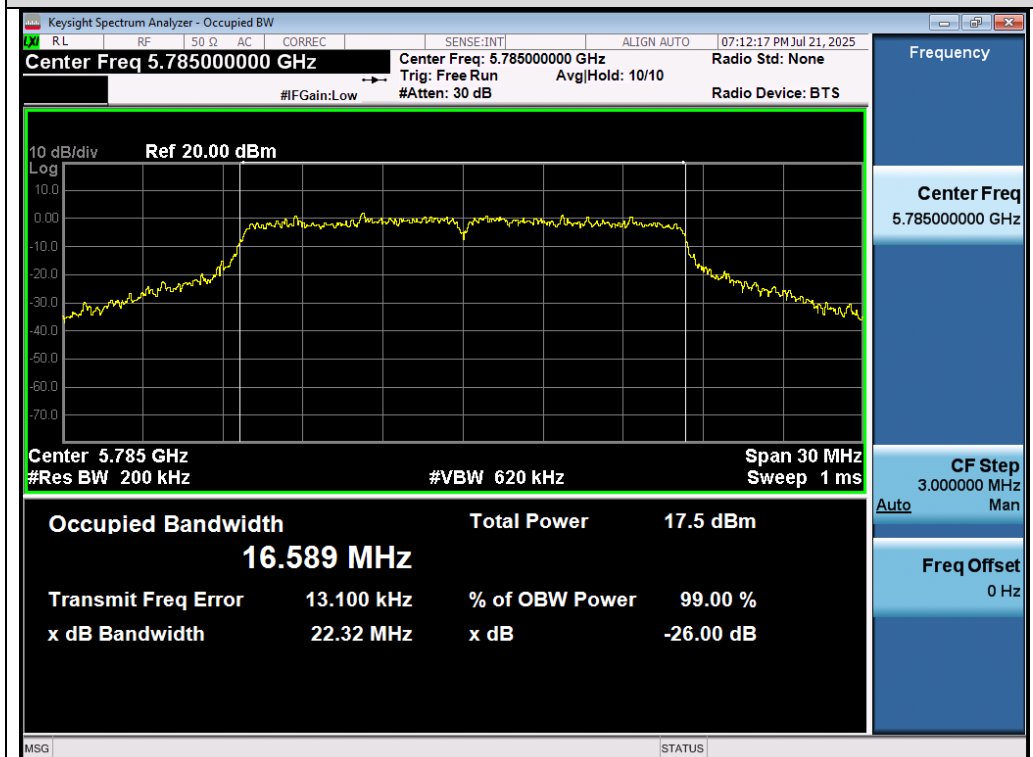
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

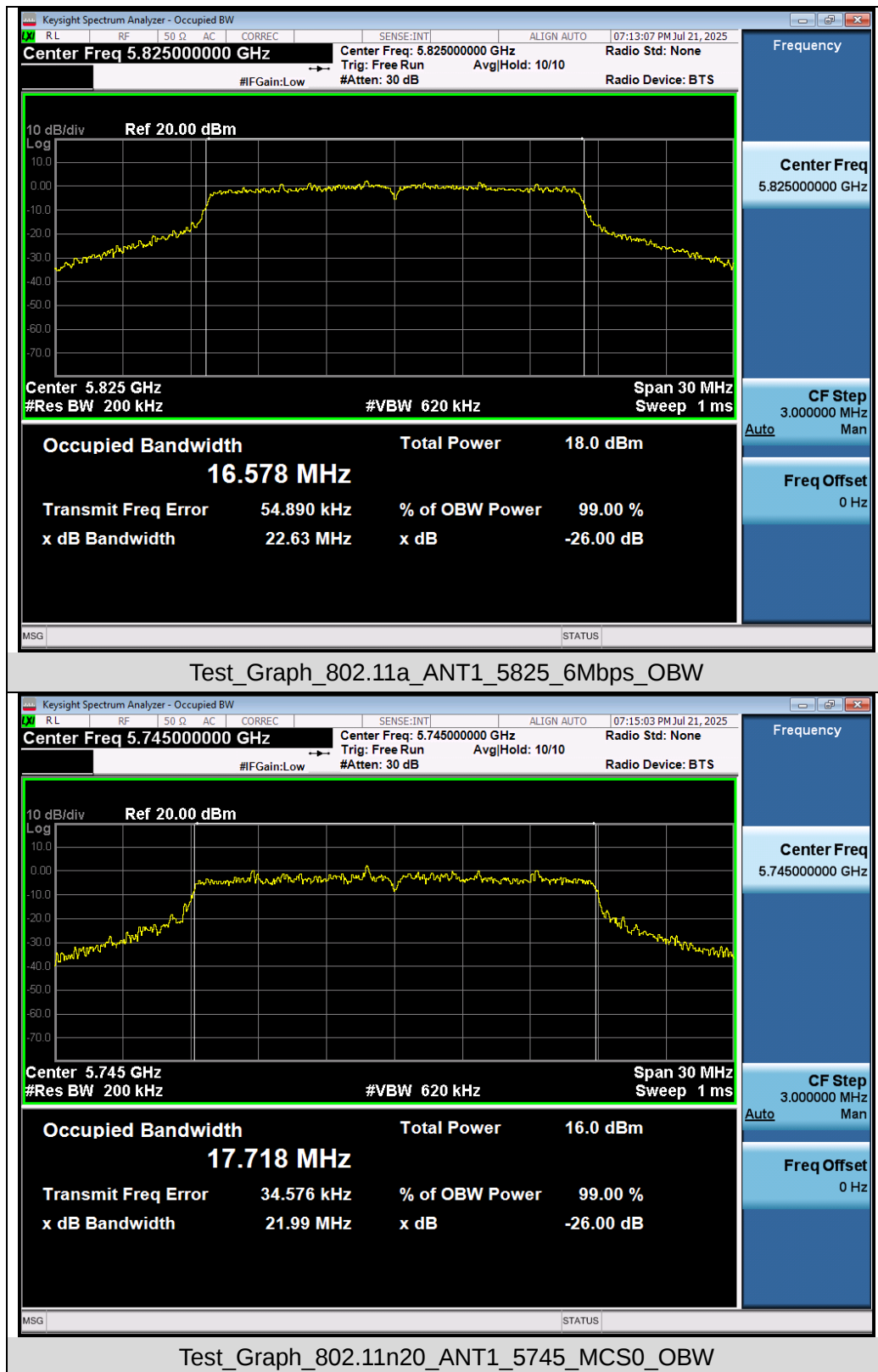


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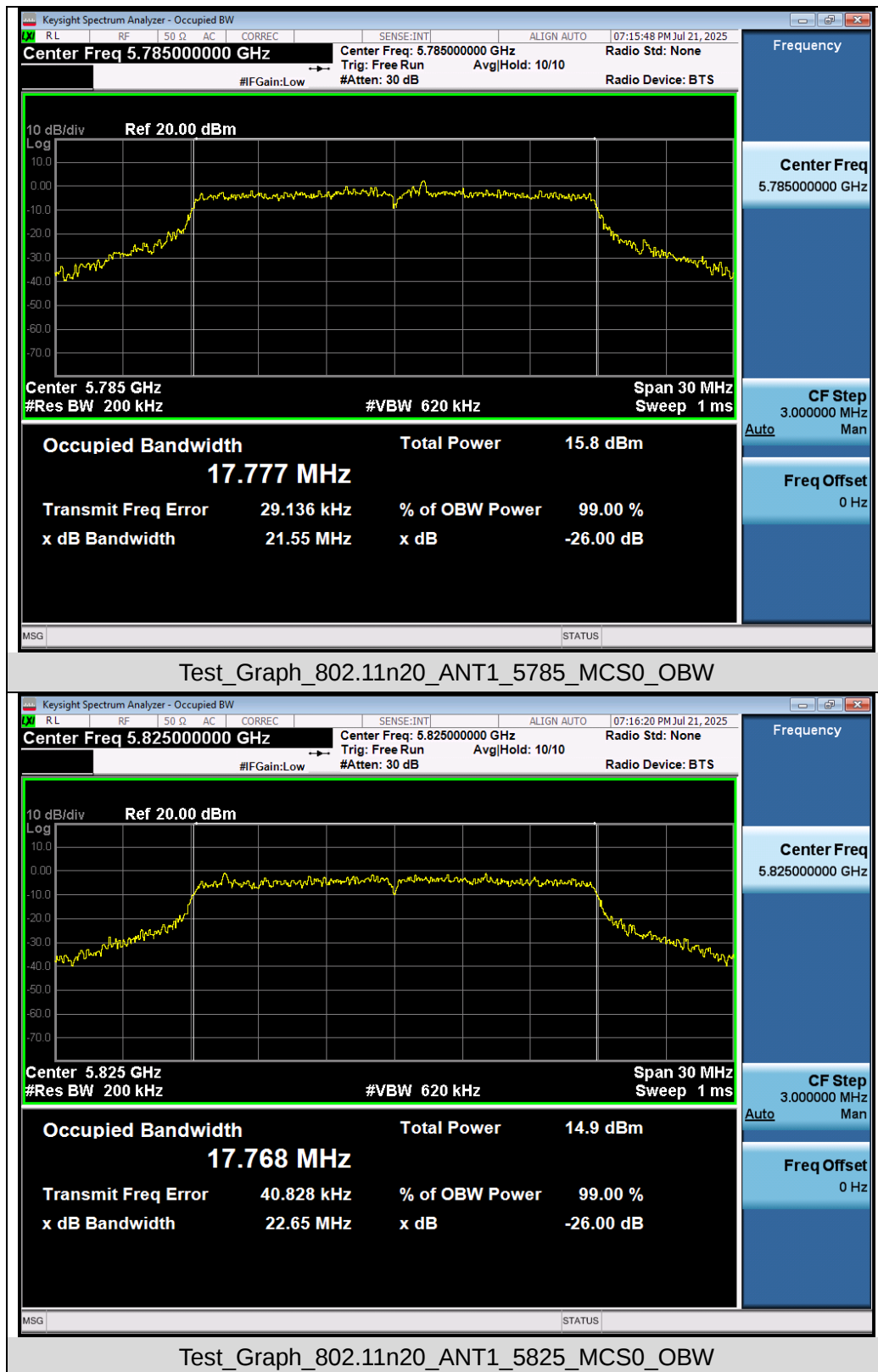
Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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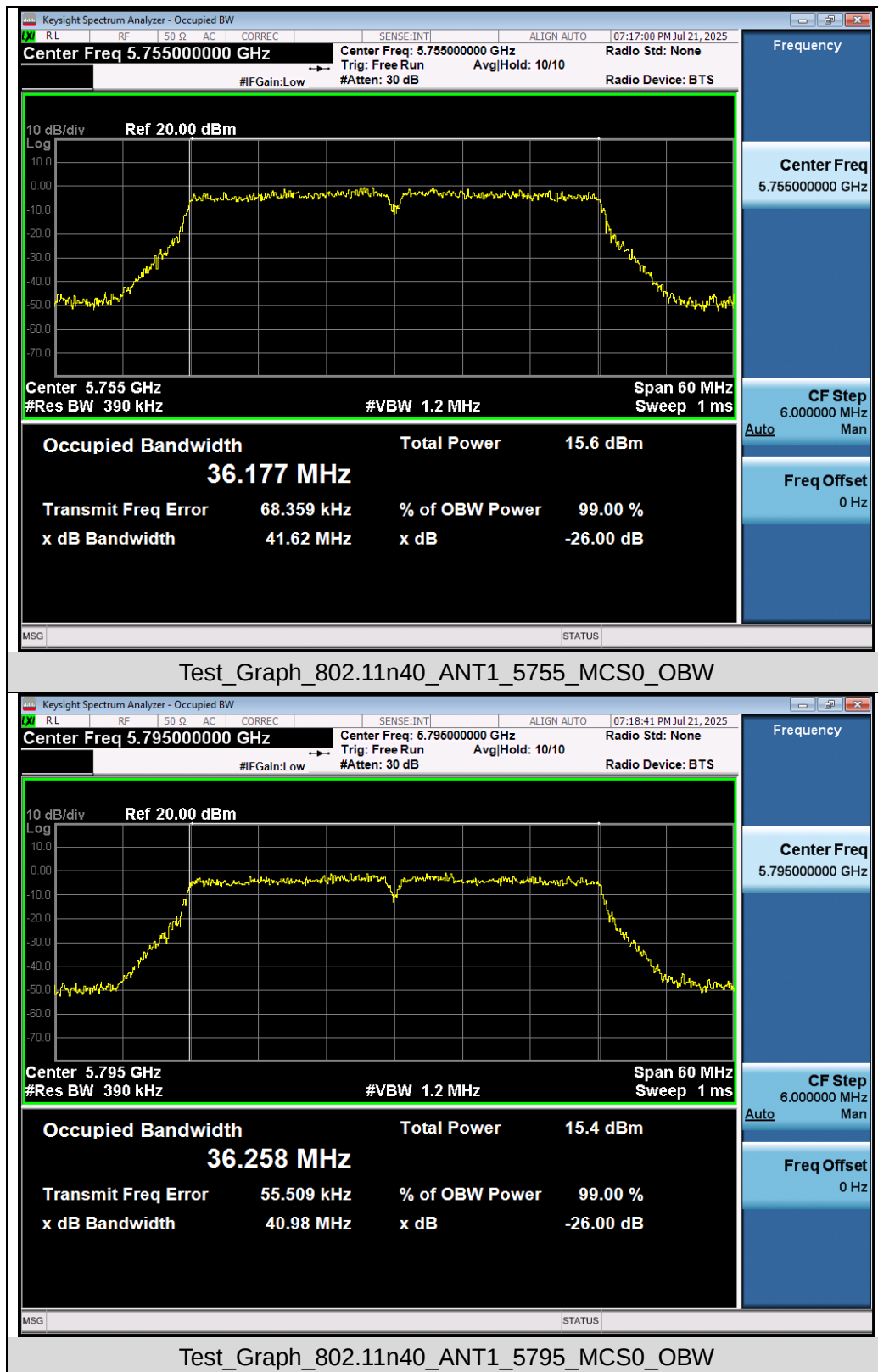
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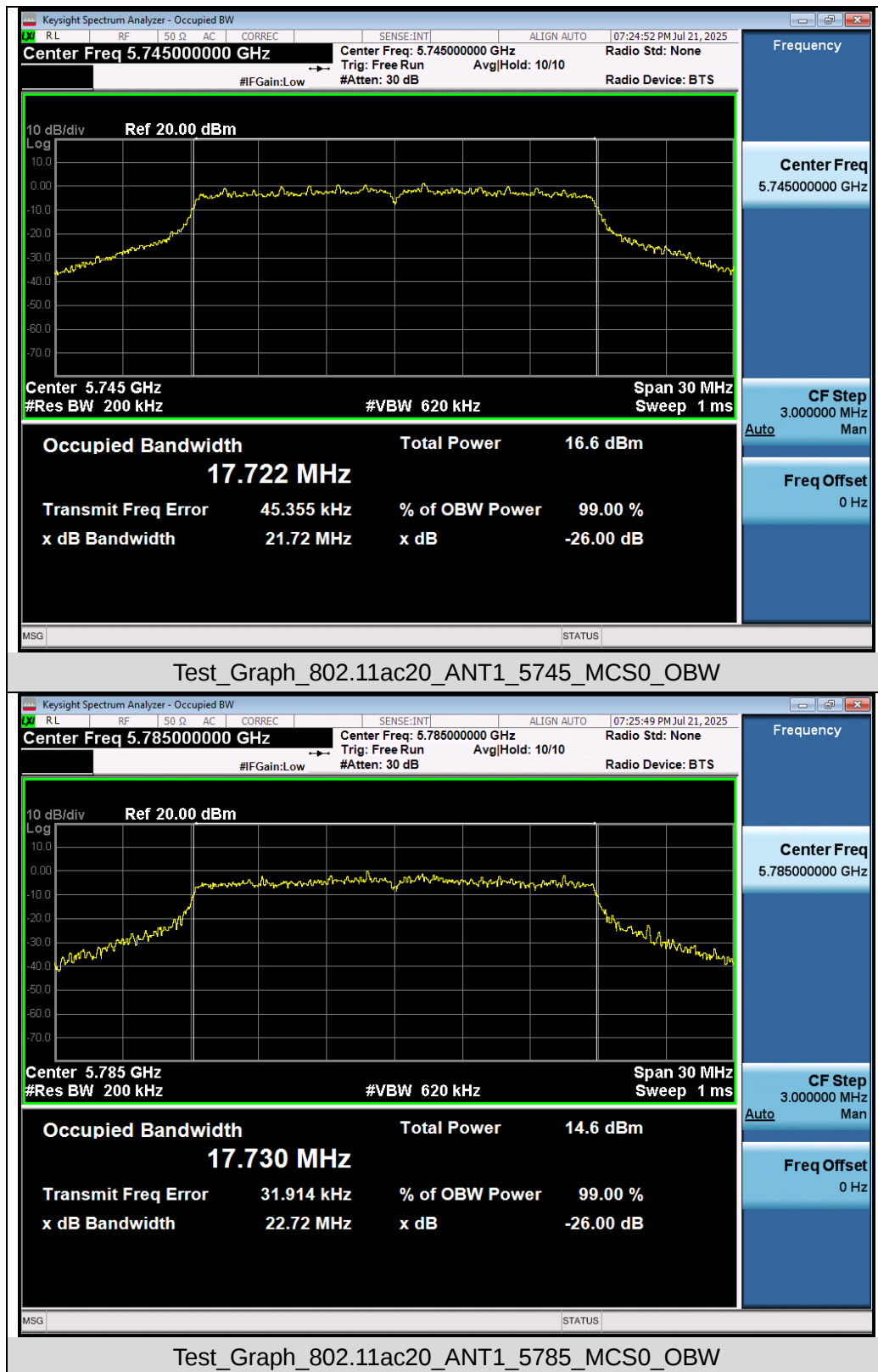


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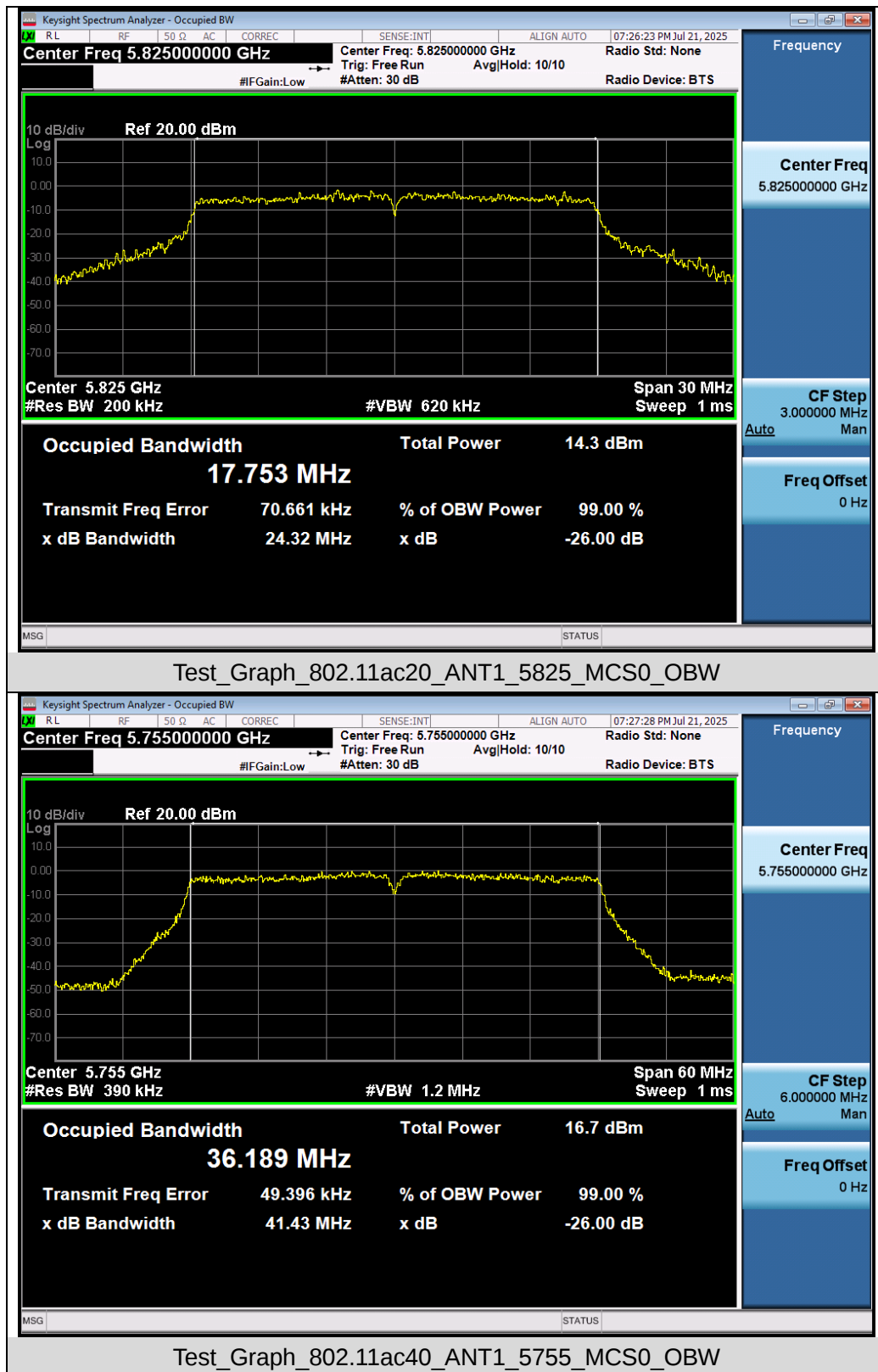


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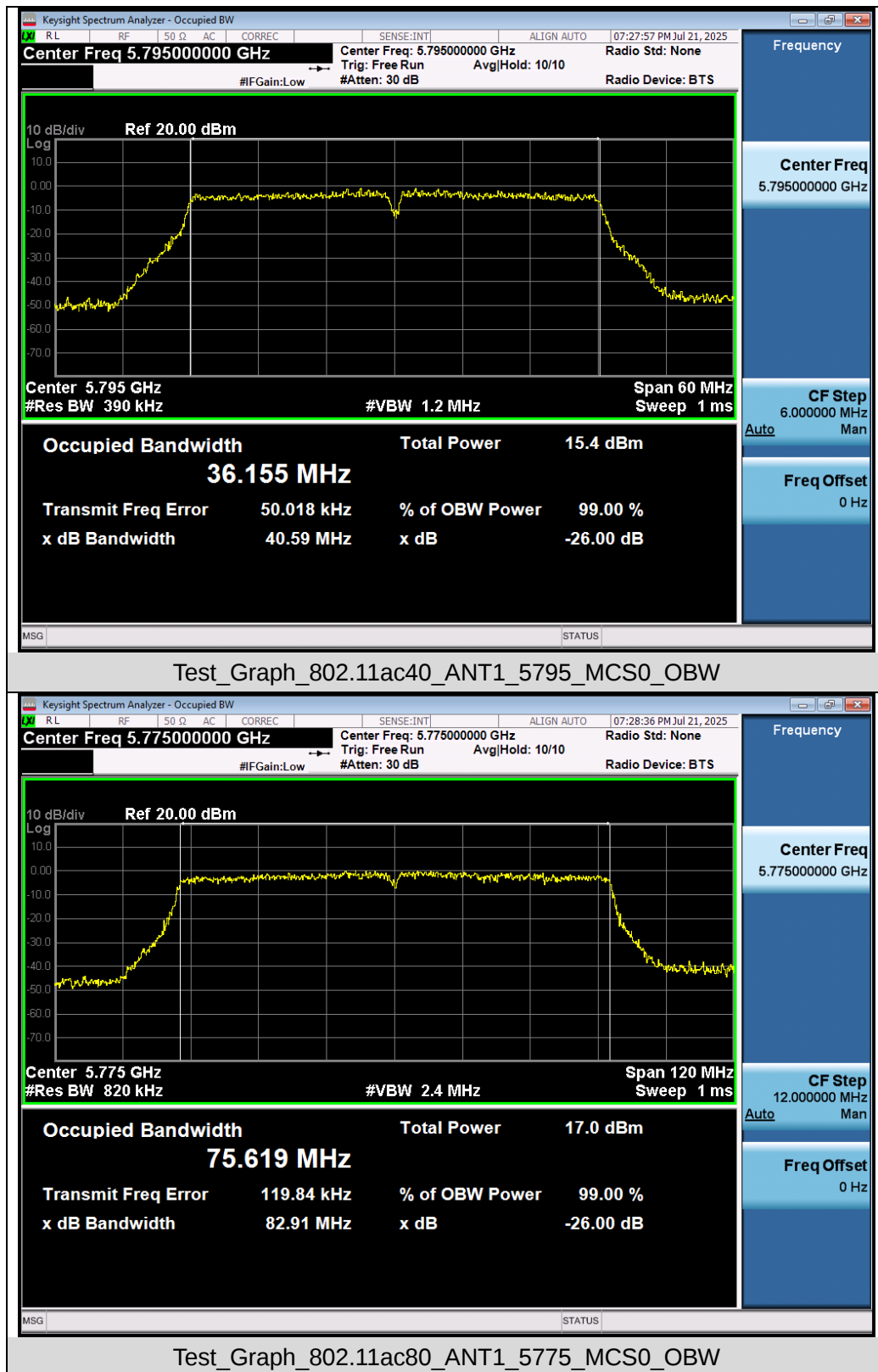


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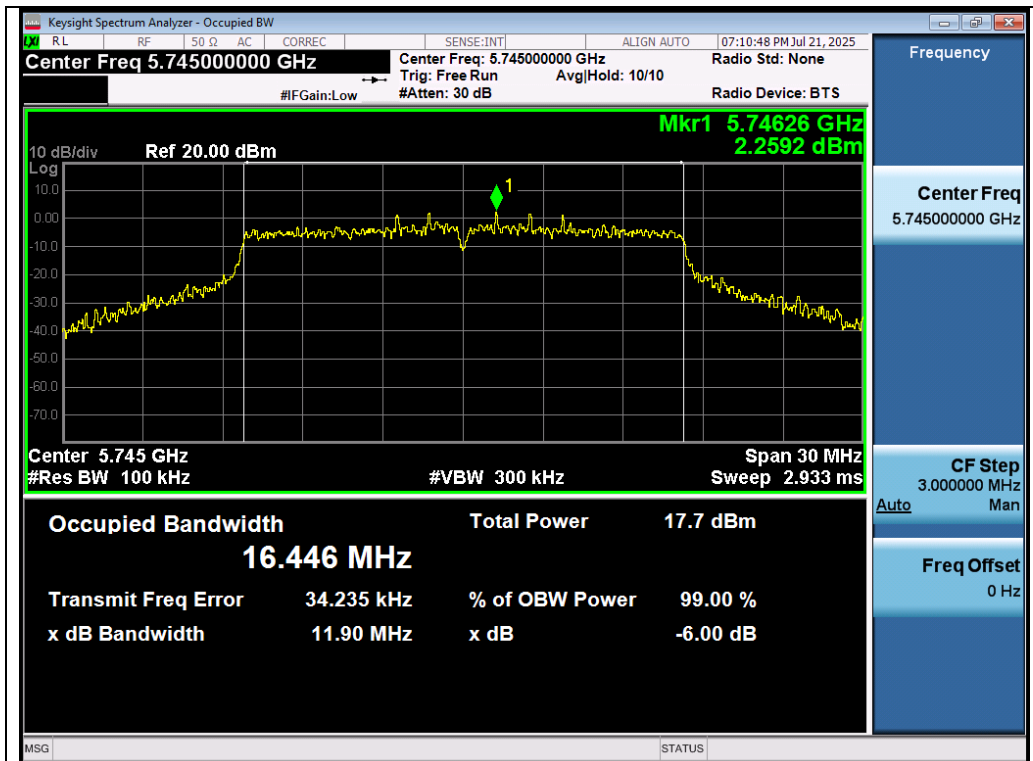


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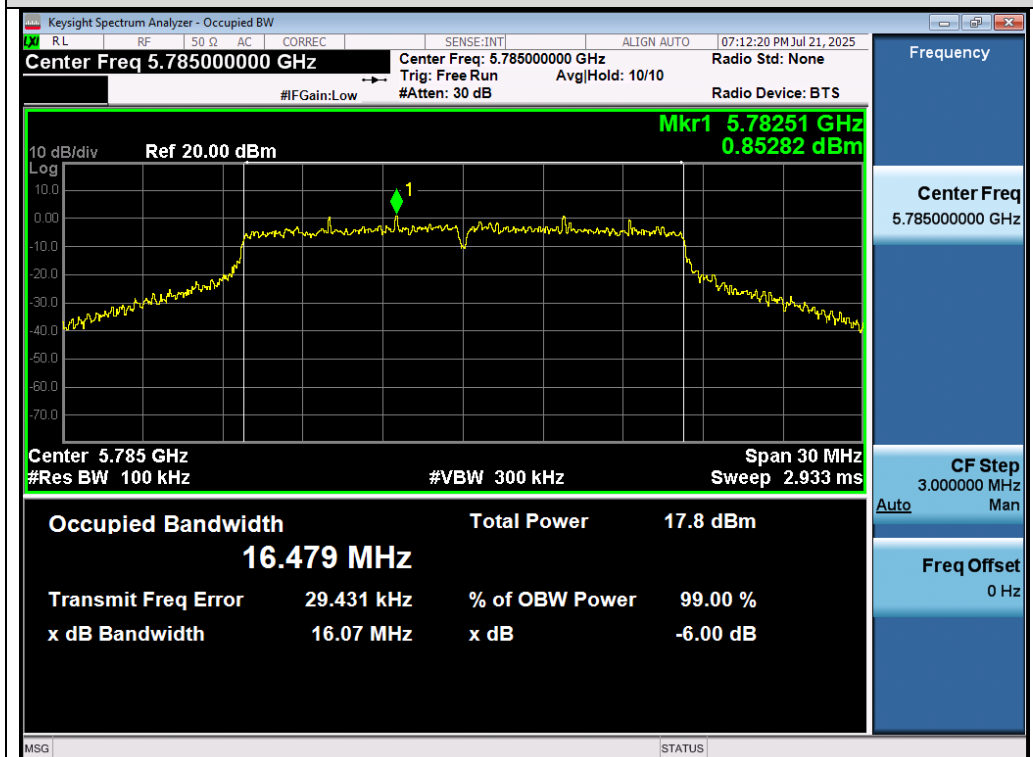


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

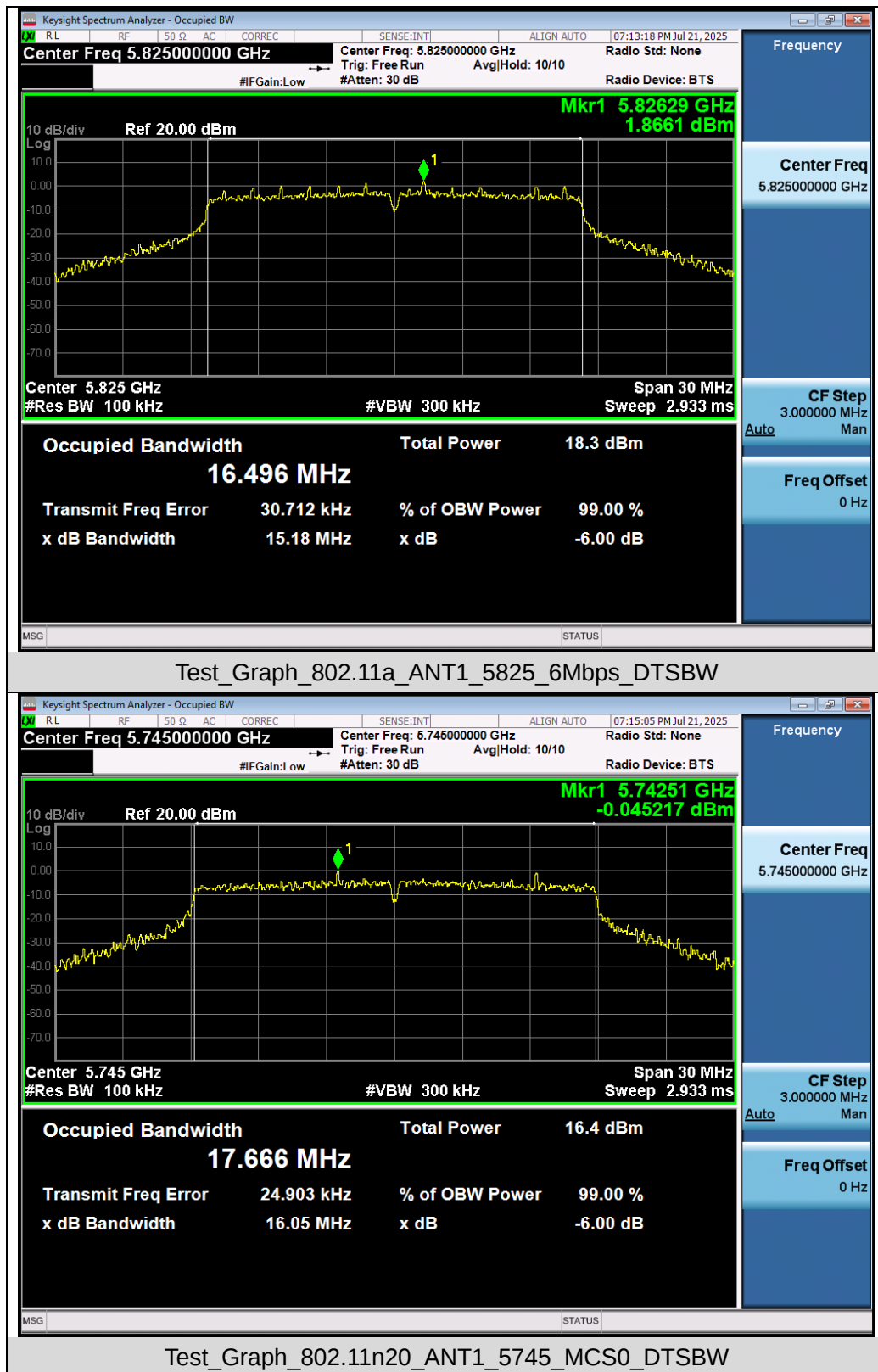


Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

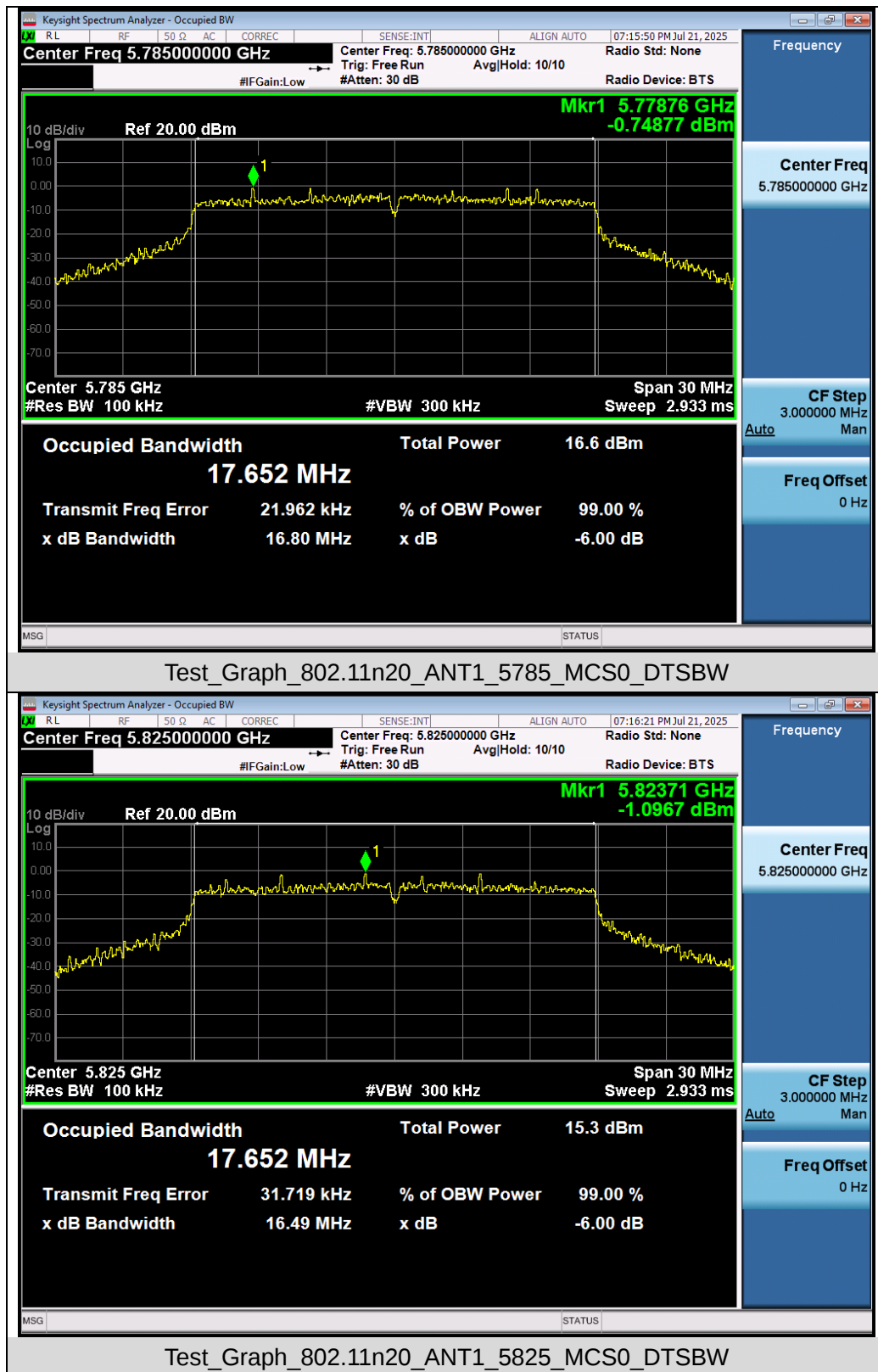


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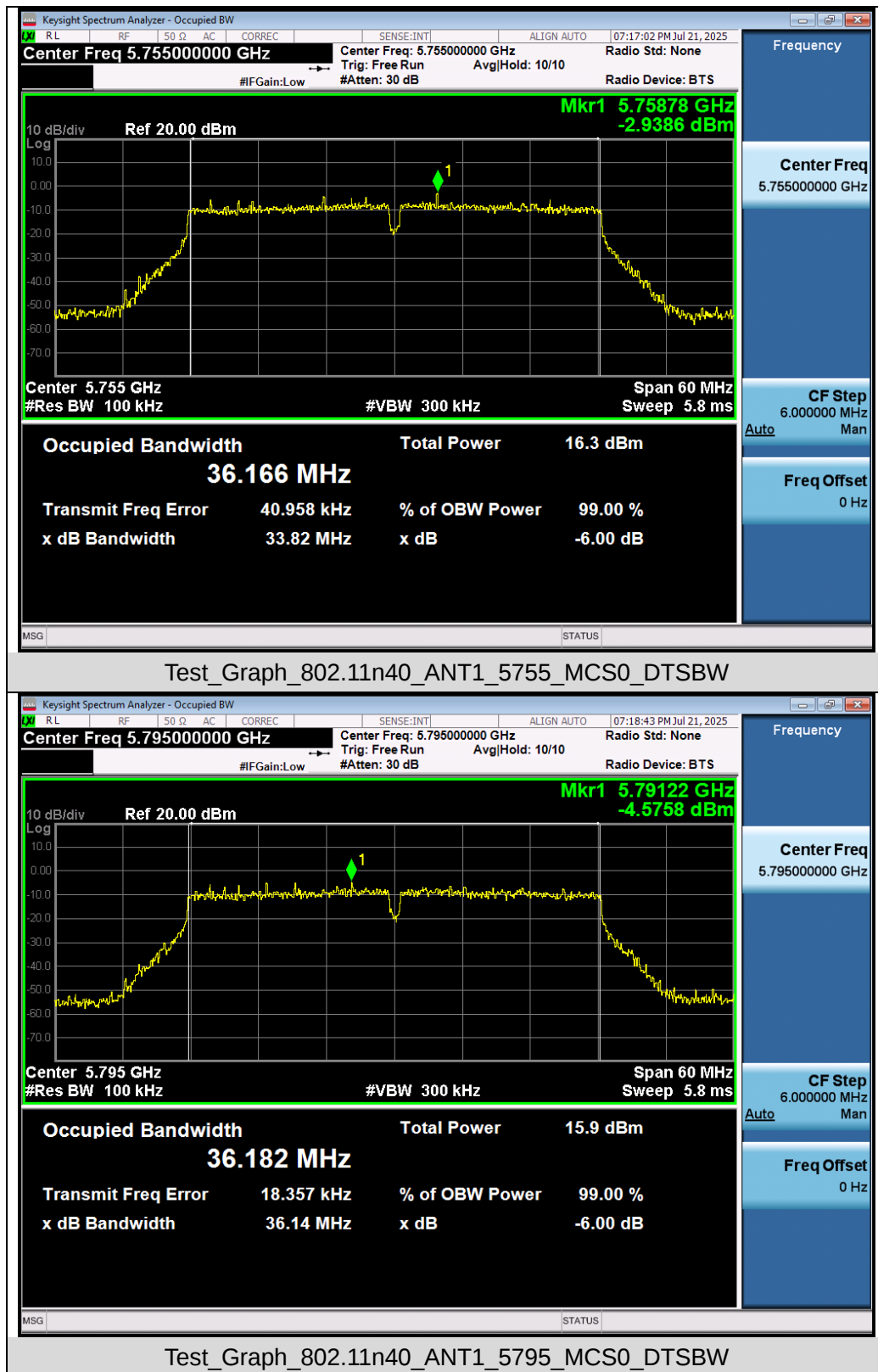


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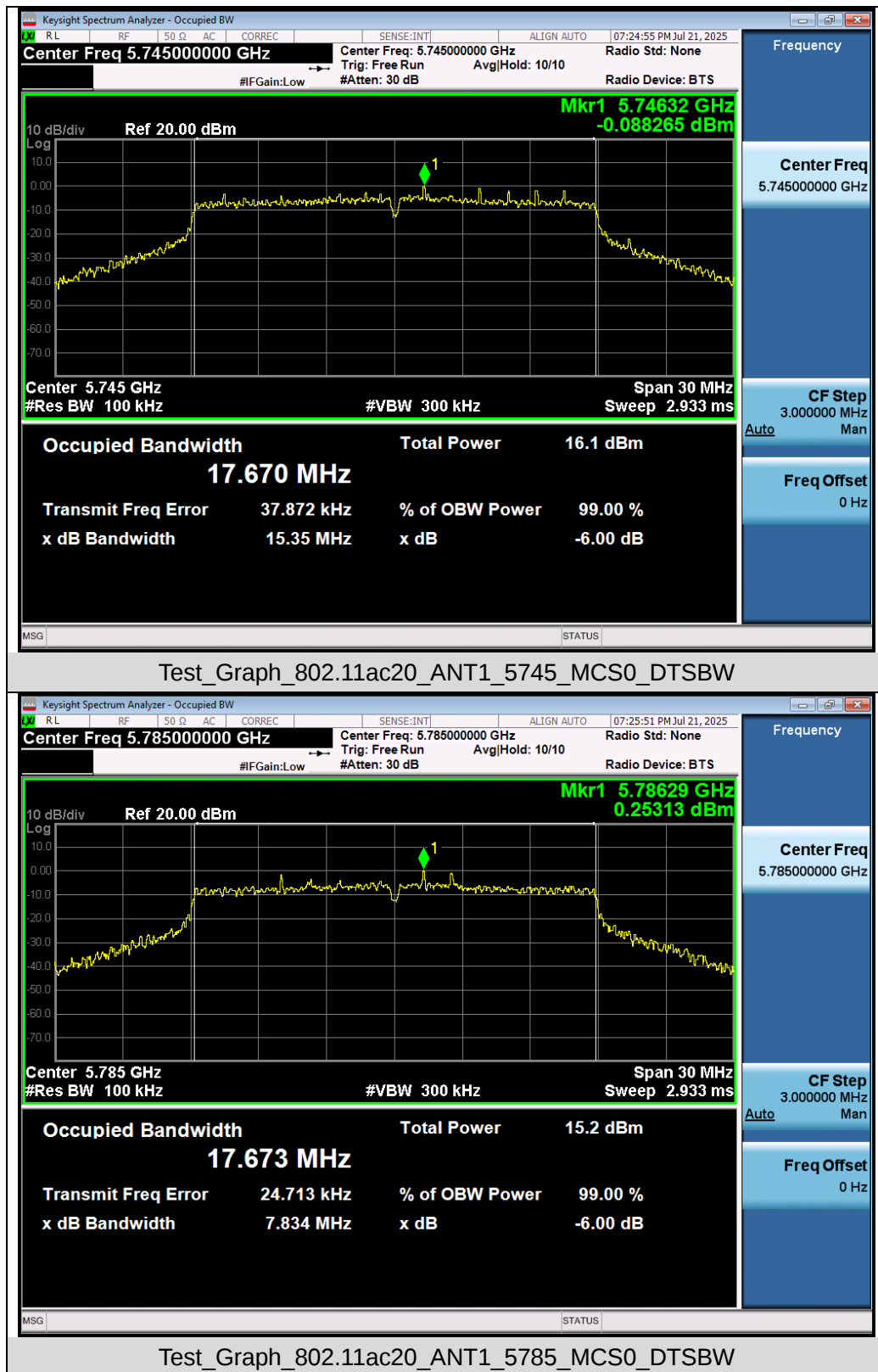
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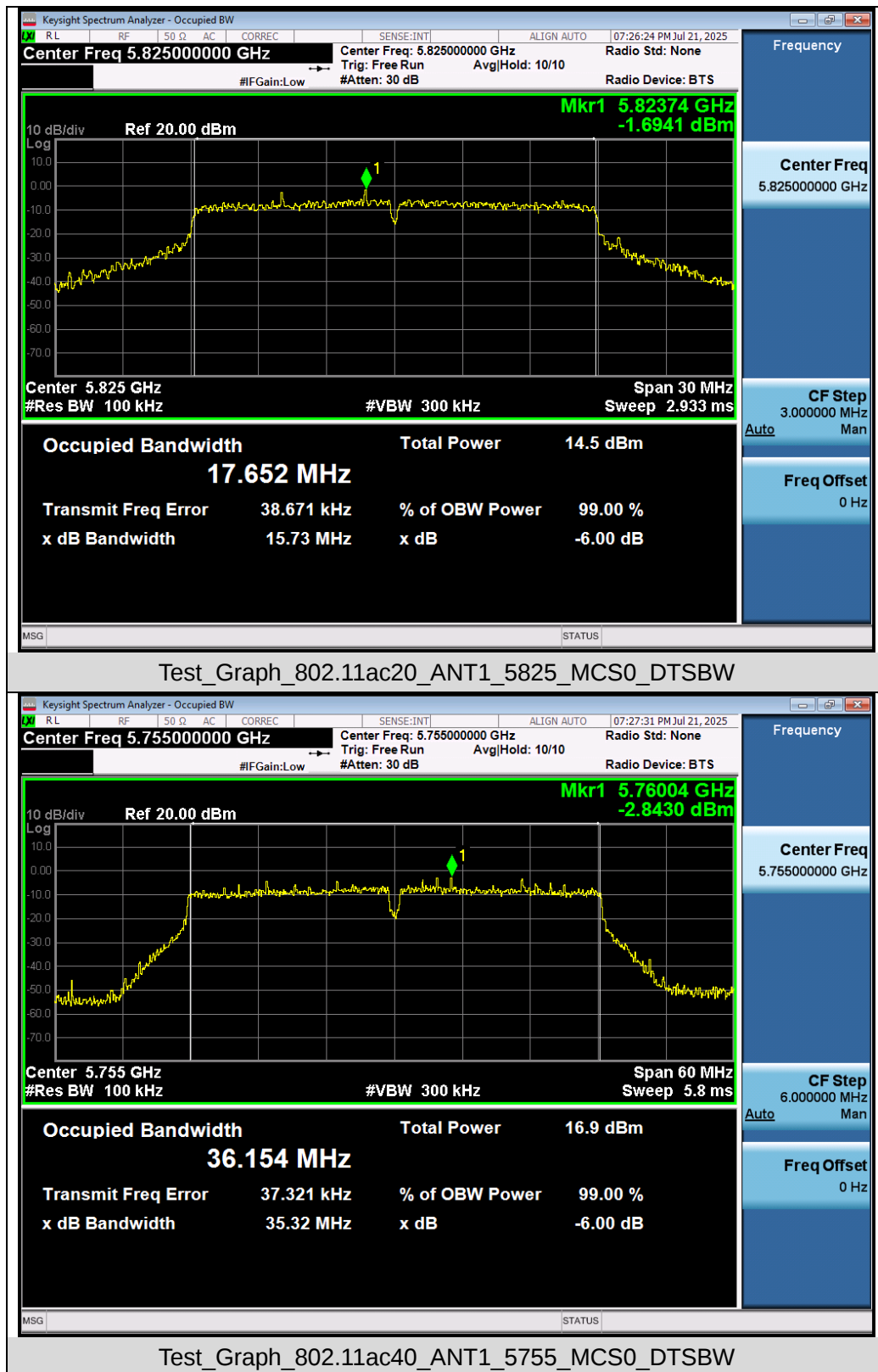
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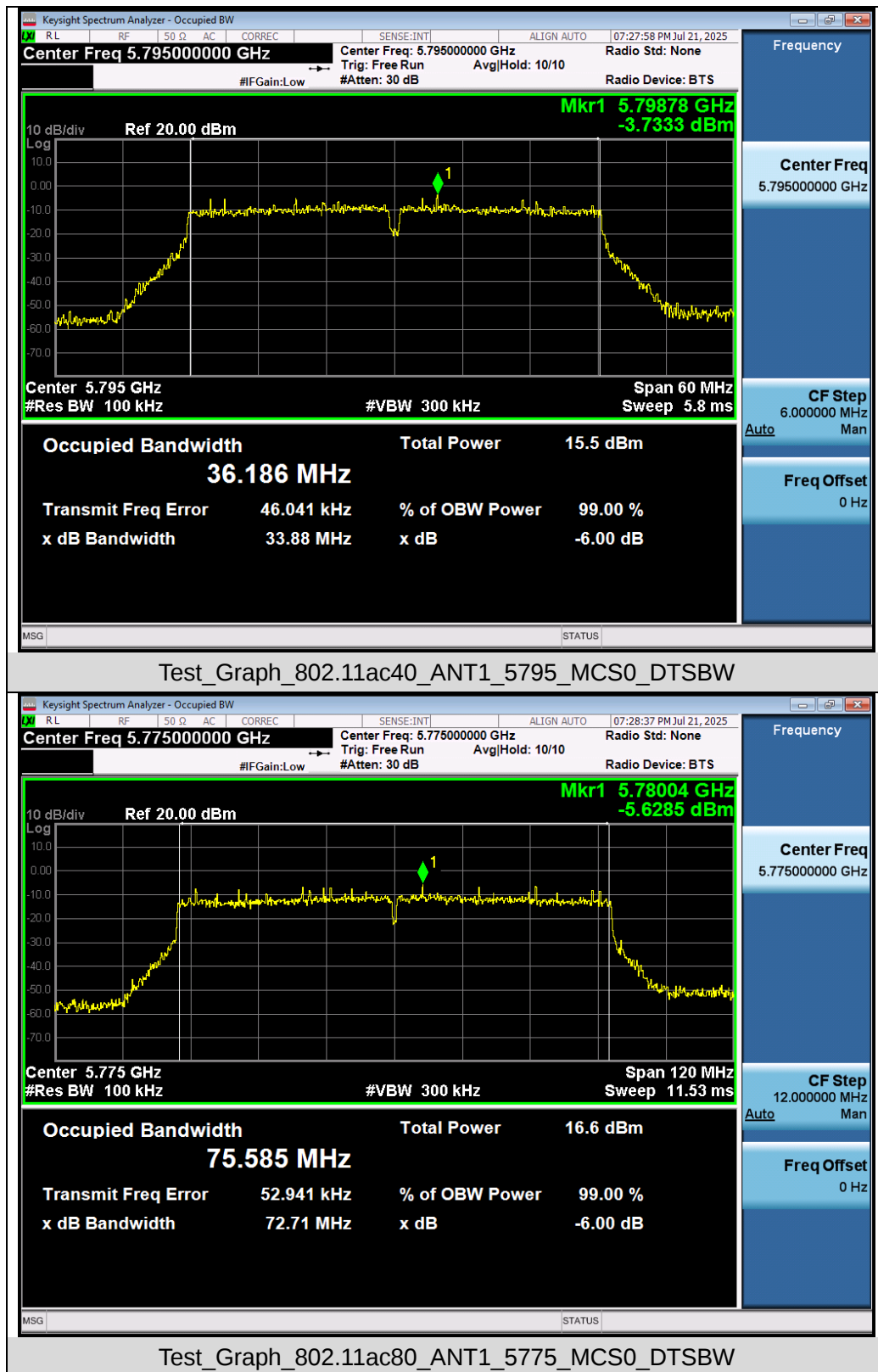
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9. Power Spectral Density Measurement

9.1 Provisions Applicable

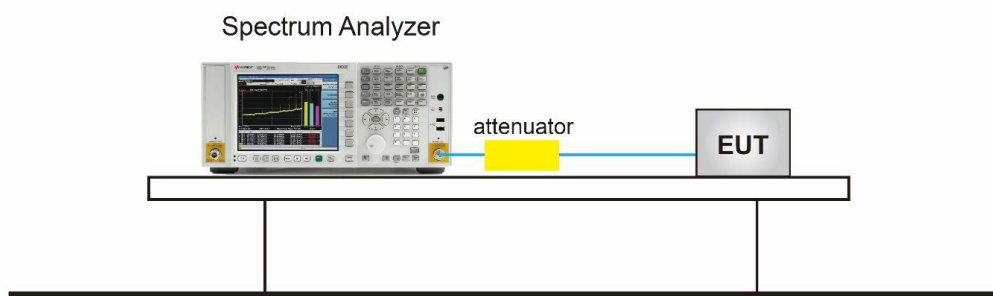
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	-1.284	11	Pass
	5200	-1.733	11	Pass
	5240	-2.605	11	Pass
802.11n20	5180	-2.748	11	Pass
	5200	-3.196	11	Pass
	5240	-3.978	11	Pass
802.11n40	5190	-5.305	11	Pass
	5230	-5.778	11	Pass
802.11ac20	5180	-2.752	11	Pass
	5200	-3.295	11	Pass
	5240	-4.065	11	Pass
802.11ac40	5190	-5.451	11	Pass
	5230	-5.813	11	Pass
802.11ac80	5210	-9.086	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	-2.661	11	Pass
	5300	-3.067	11	Pass
	5320	-3.320	11	Pass
802.11n20	5260	-4.211	11	Pass
	5300	-4.371	11	Pass
	5320	-4.707	11	Pass
802.11n40	5270	-6.333	11	Pass
	5310	-6.943	11	Pass
802.11ac20	5260	-4.151	11	Pass
	5300	-4.590	11	Pass
	5320	-4.713	11	Pass
802.11ac40	5270	-6.342	11	Pass
	5310	-7.003	11	Pass
802.11ac80	5290	-10.033	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	-1.525	11	Pass
	5580	-4.230	11	Pass
	5700	-6.956	11	Pass
802.11n20	5500	-3.071	11	Pass
	5580	-5.679	11	Pass
	5700	-8.446	11	Pass
802.11n40	5510	-5.386	11	Pass
	5590	-6.844	11	Pass
	5670	-10.452	11	Pass
802.11ac20	5500	-3.040	11	Pass
	5580	-5.757	11	Pass
	5700	-8.556	11	Pass
802.11ac40	5510	-5.774	11	Pass
	5590	-6.702	11	Pass
	5670	-10.544	11	Pass
802.11ac80	5530	-9.234	11	Pass
	5610	-12.553	11	Pass

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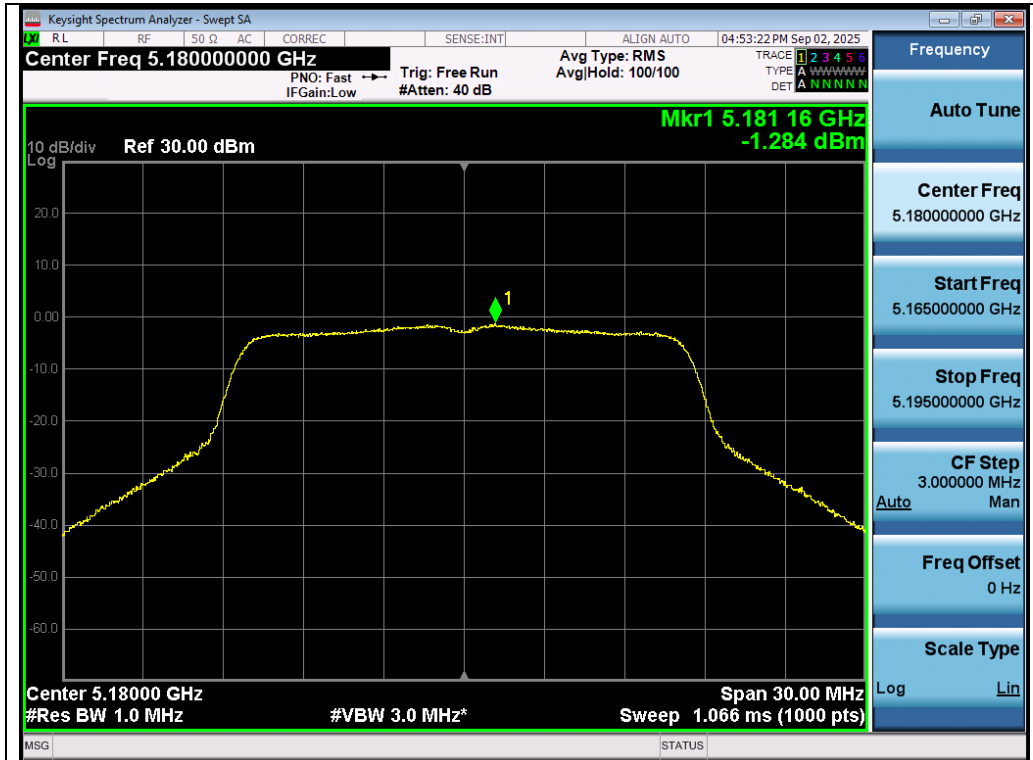
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-9.768	-2.778	30	Pass
	5785	-10.084	-3.094	30	Pass
	5825	-10.719	-3.729	30	Pass
802.11n20	5745	-10.790	-3.800	30	Pass
	5785	-10.890	-3.900	30	Pass
	5825	-11.761	-4.771	30	Pass
802.11n40	5755	-13.476	-6.486	30	Pass
	5795	-13.579	-6.589	30	Pass
802.11ac20	5745	-10.798	-3.808	30	Pass
	5785	-11.464	-4.474	30	Pass
	5825	-11.809	-4.819	30	Pass
802.11ac40	5755	-13.580	-6.590	30	Pass
	5795	-13.975	-6.985	30	Pass
802.11ac80	5775	-16.864	-9.874	30	Pass

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

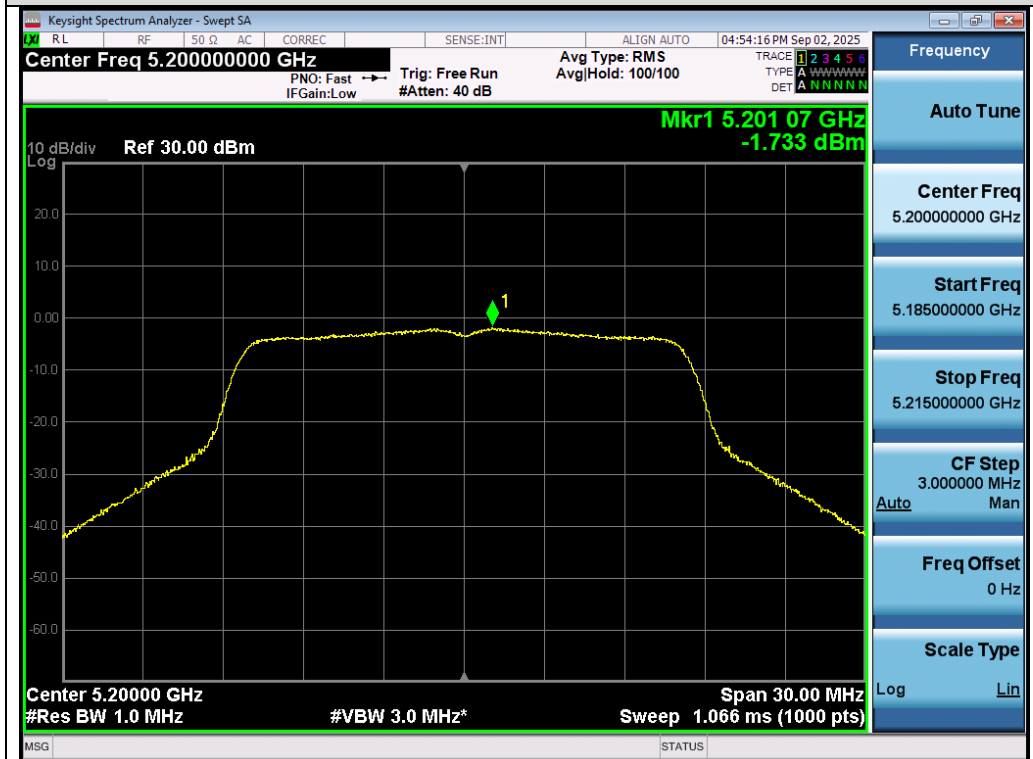
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

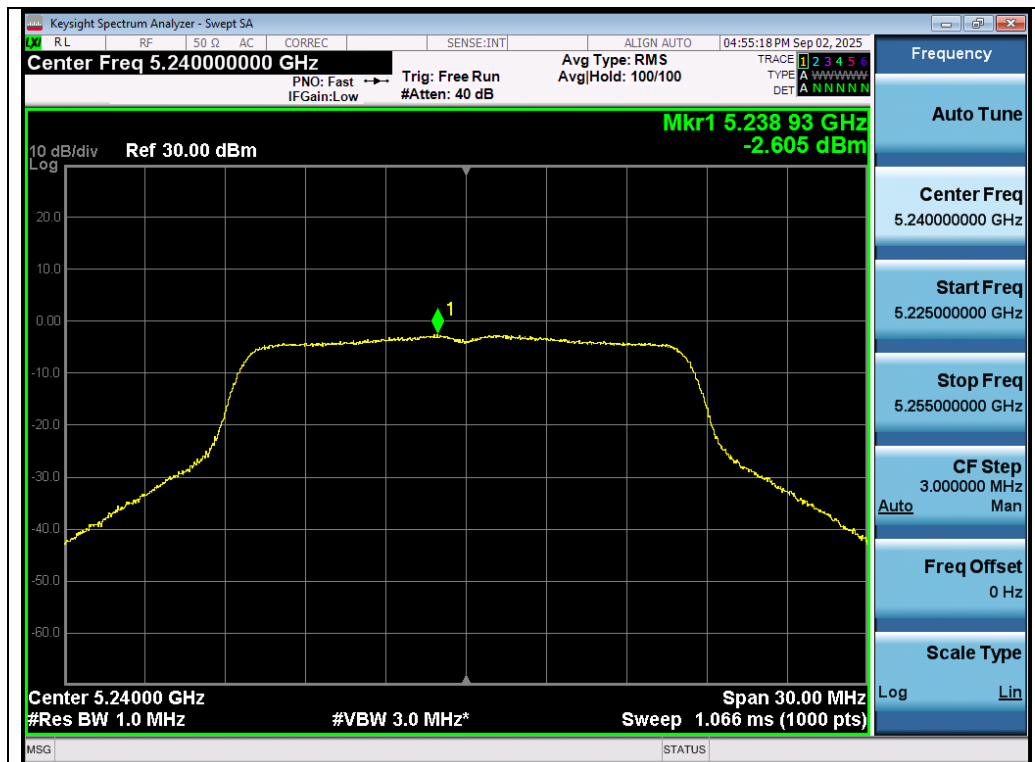


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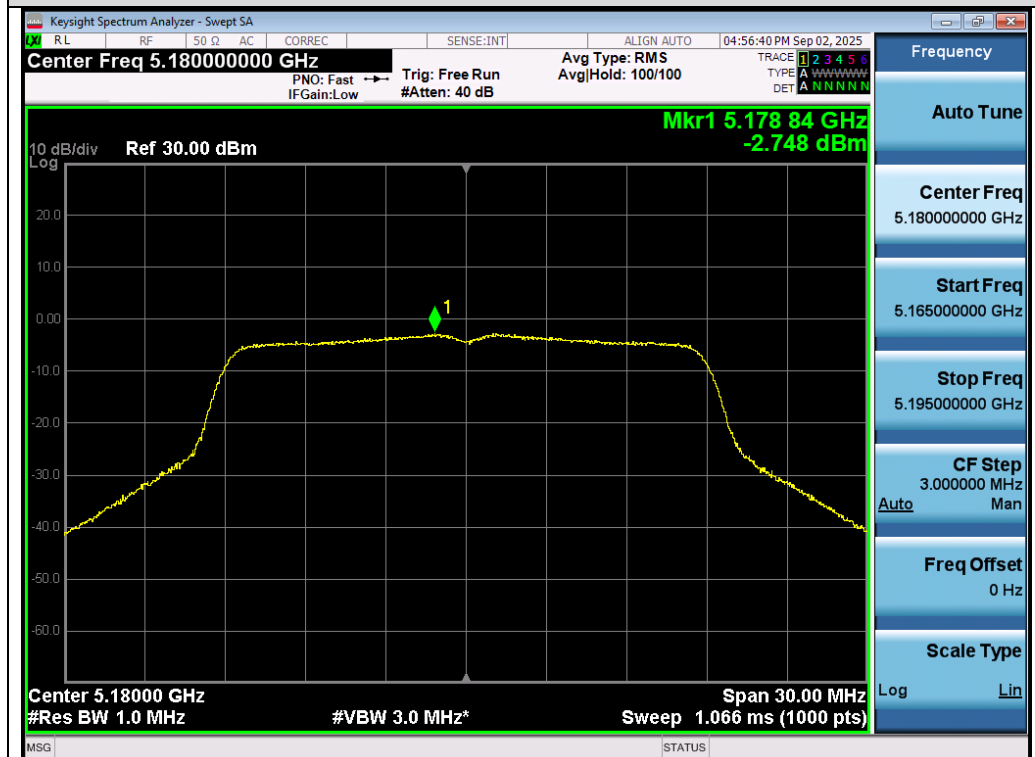


Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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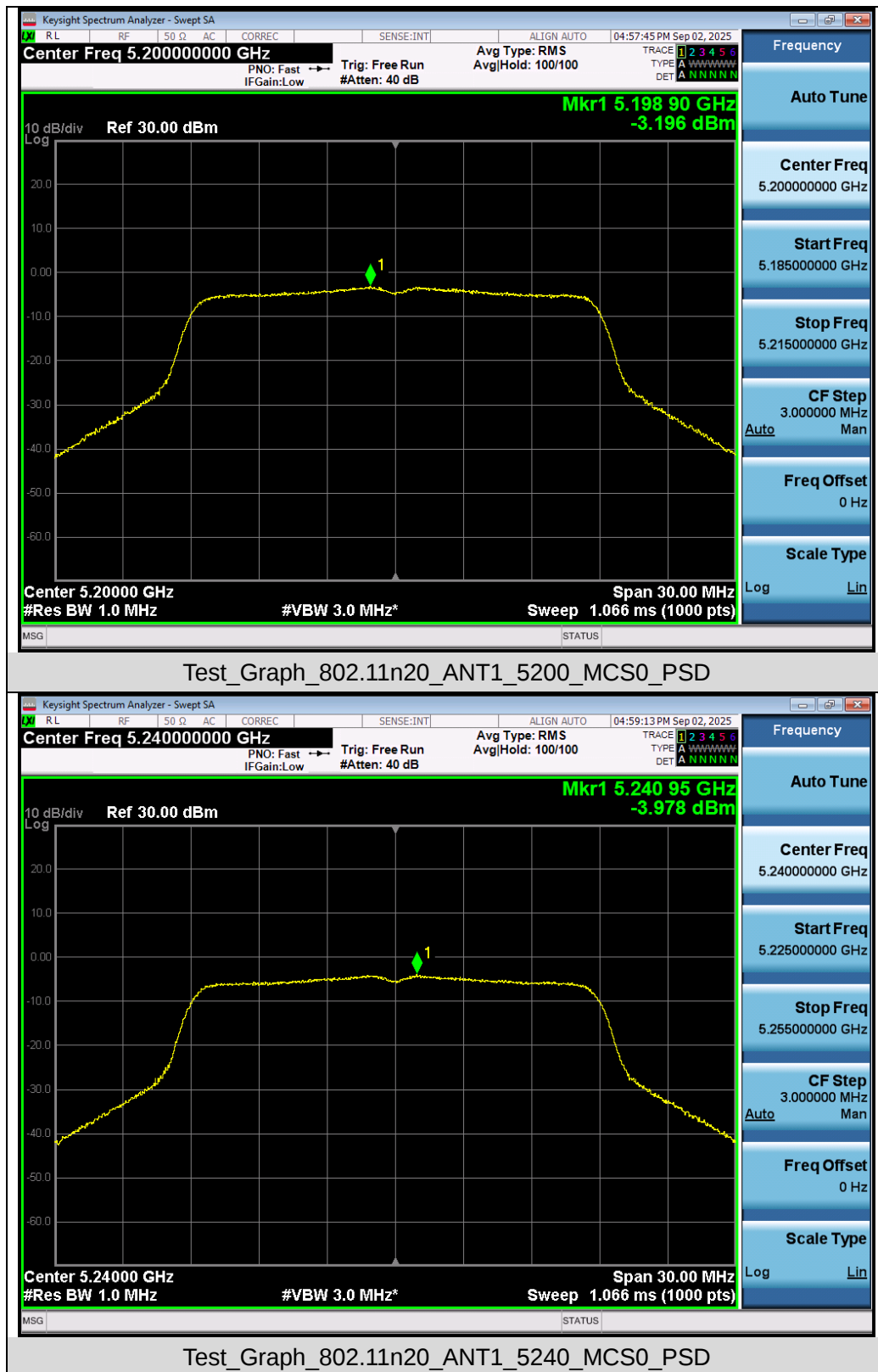
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Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

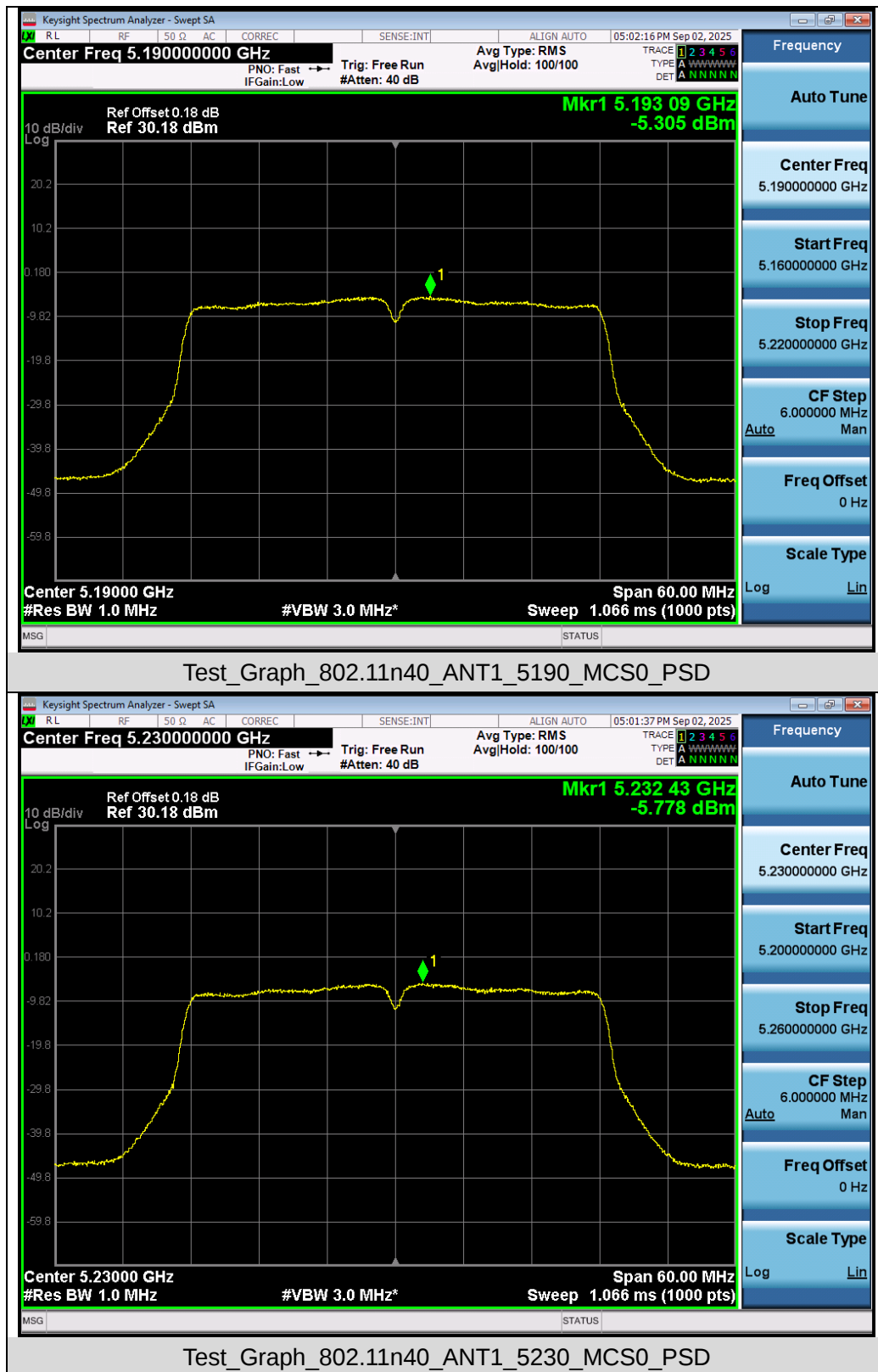
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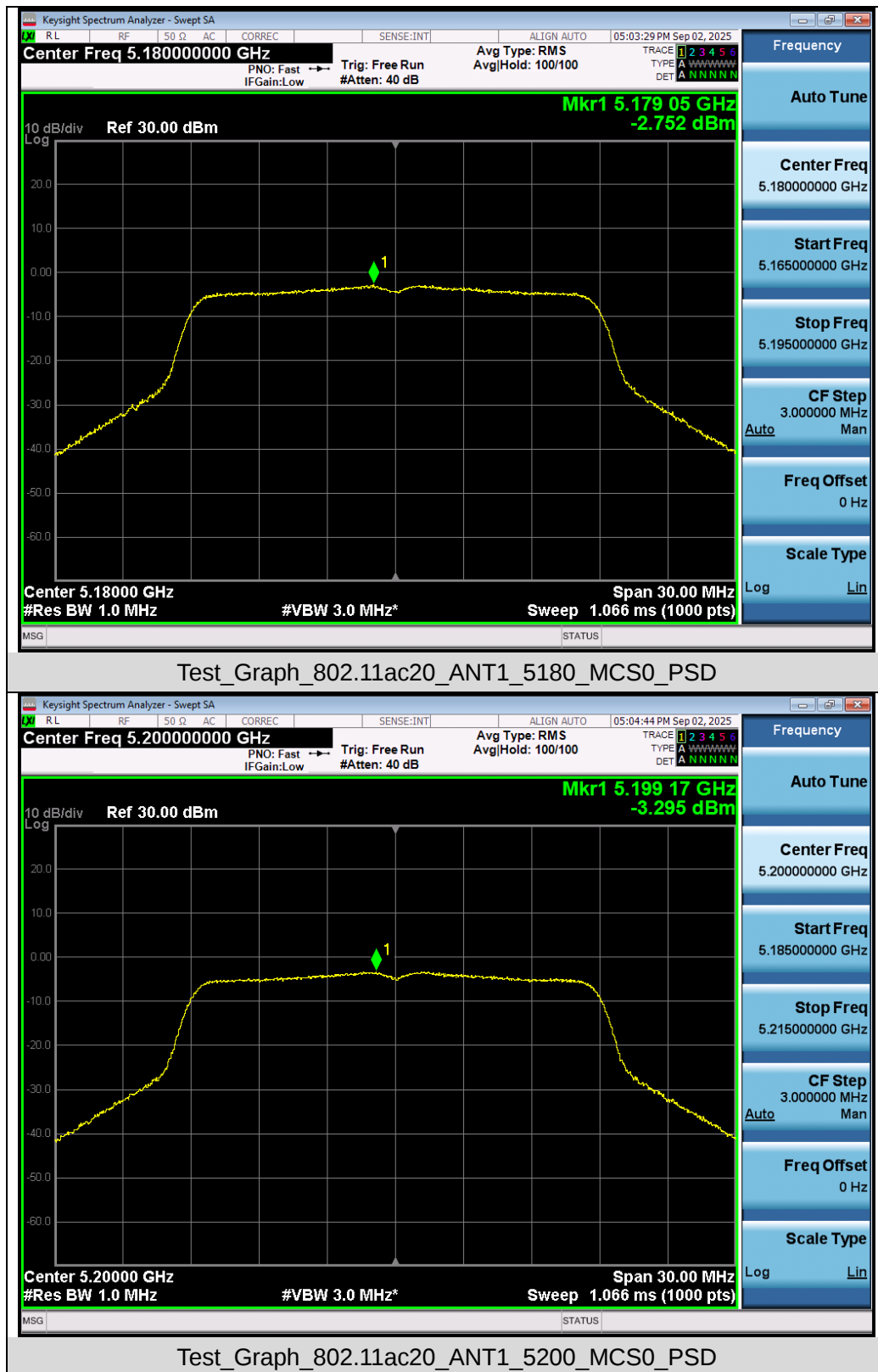


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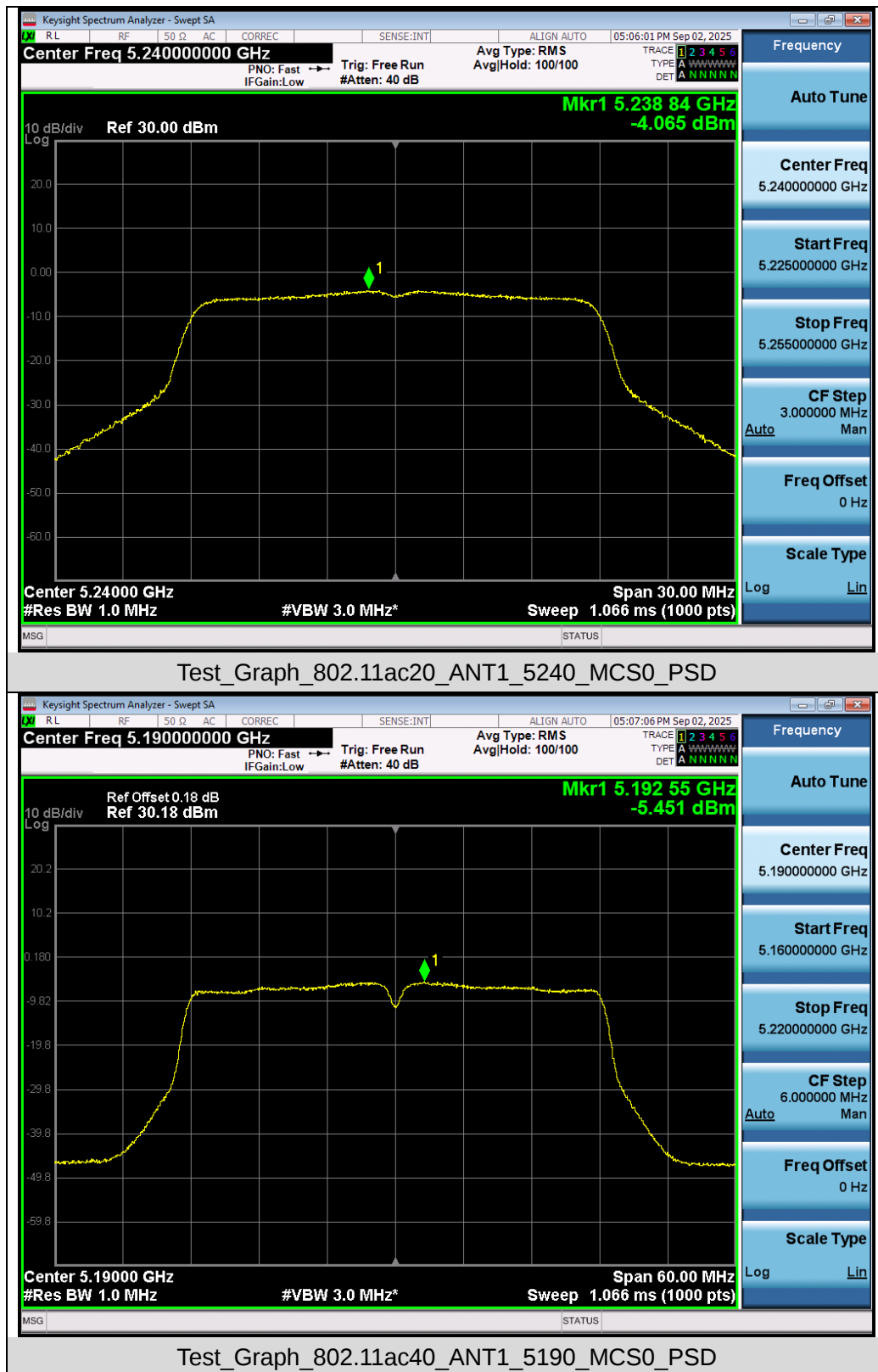


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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_PSD

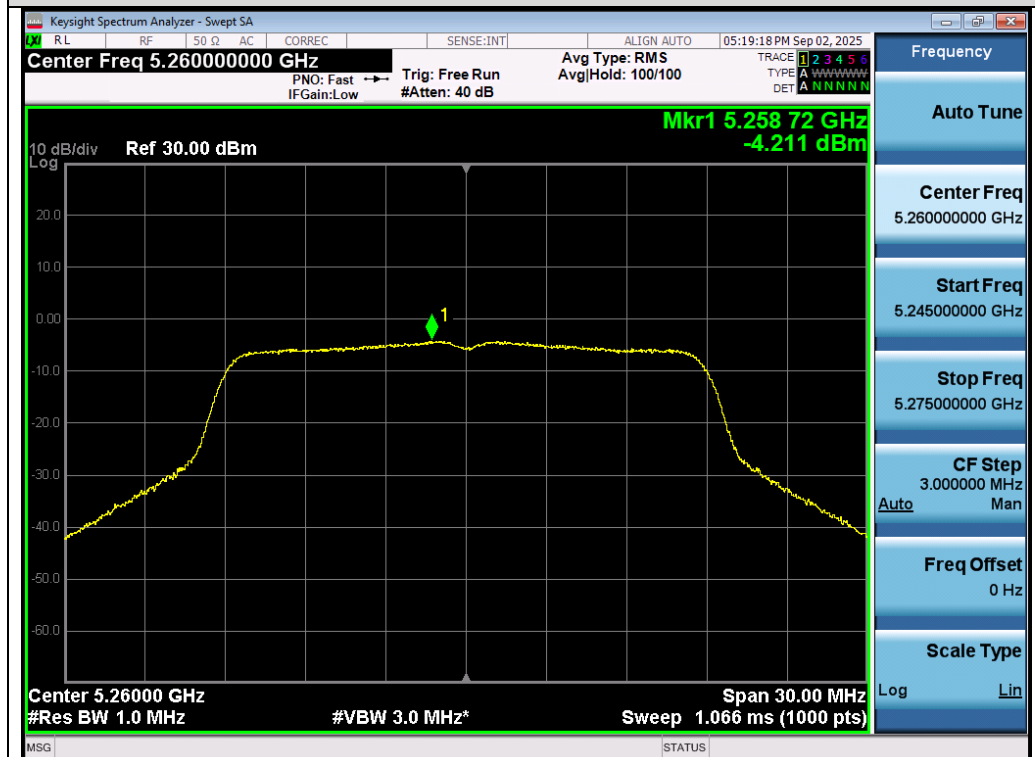


Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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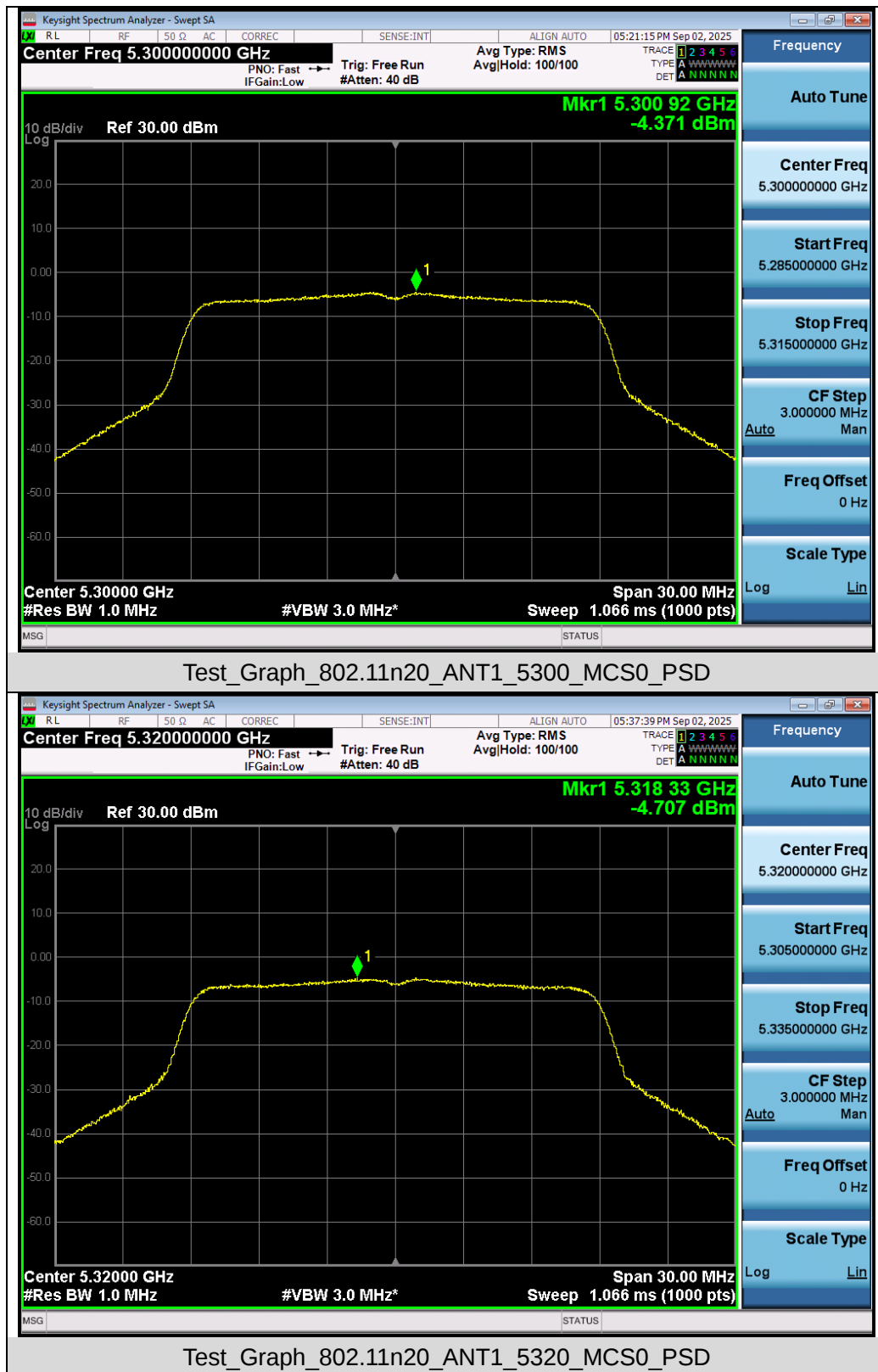


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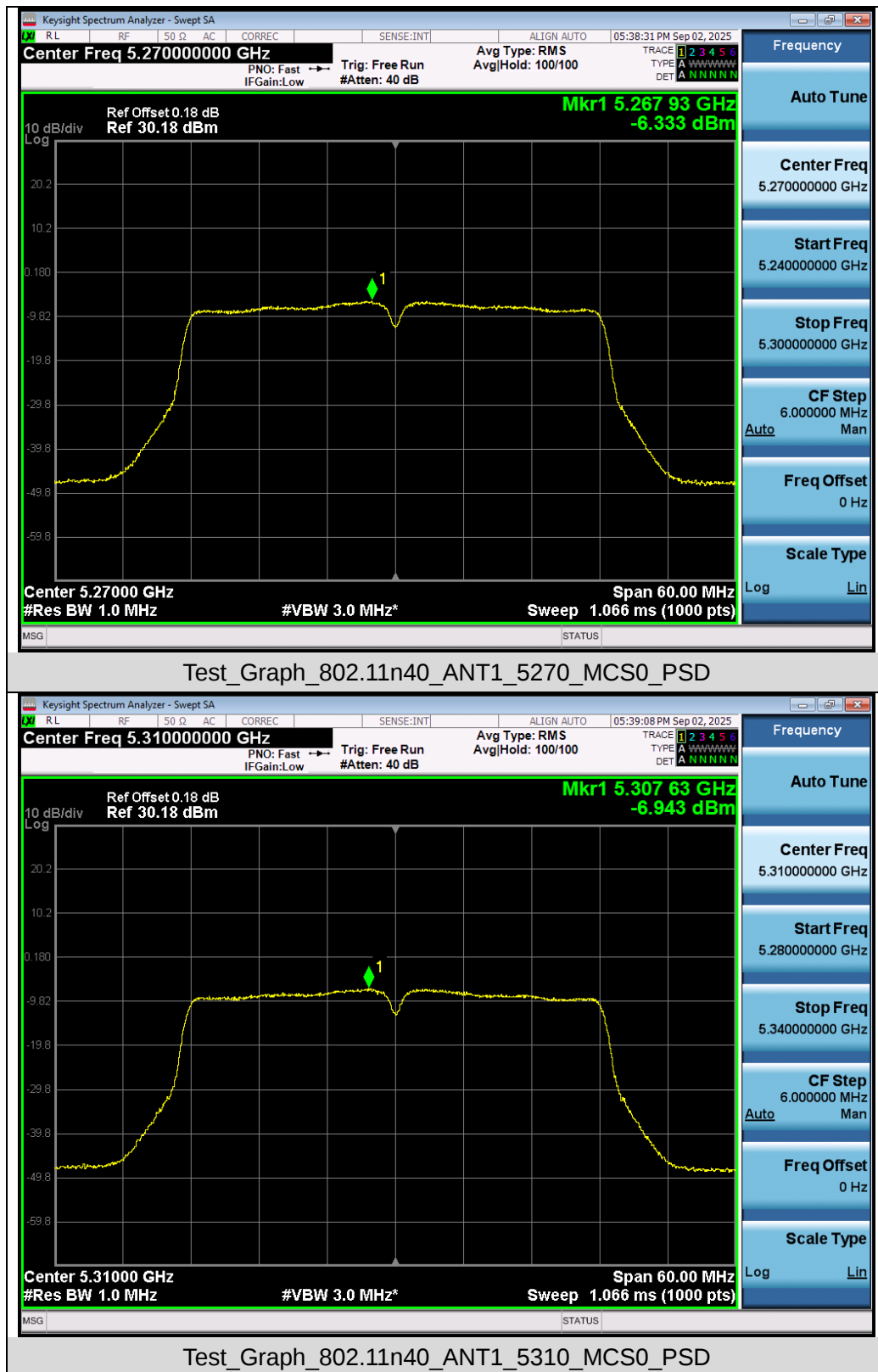


Test_Graph_802.11n20_ANT1_5260_MCS0_PSD

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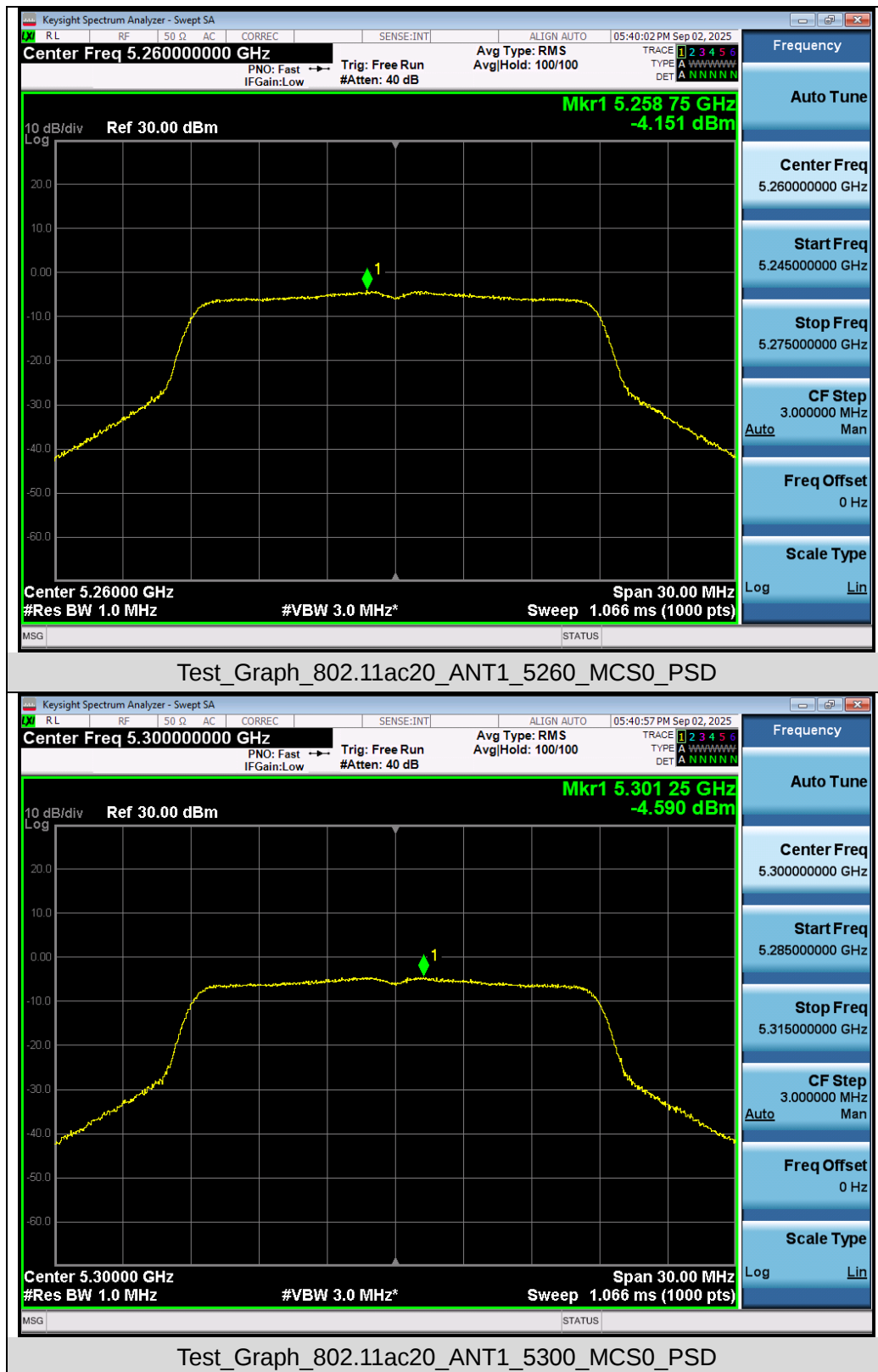


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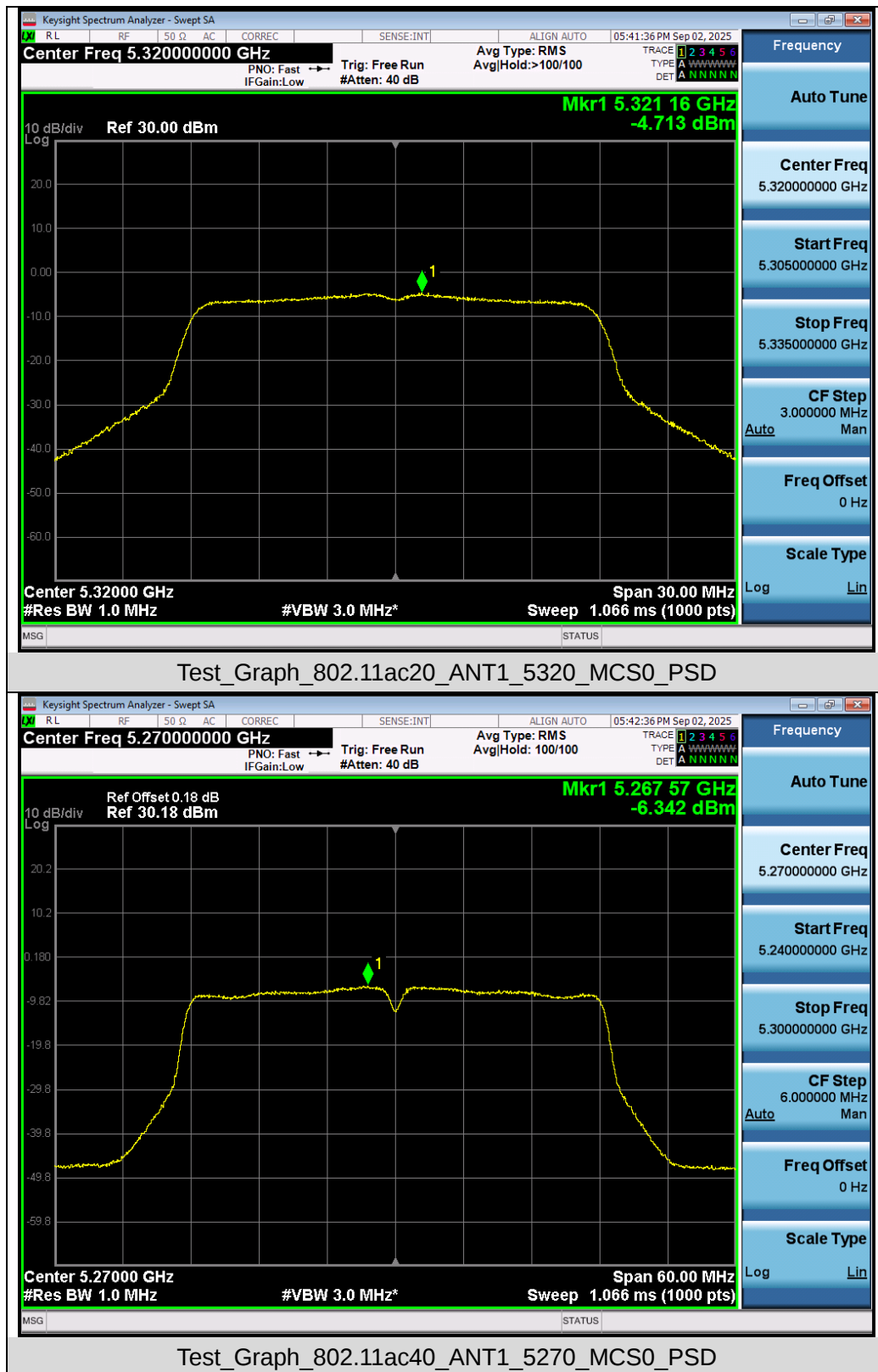


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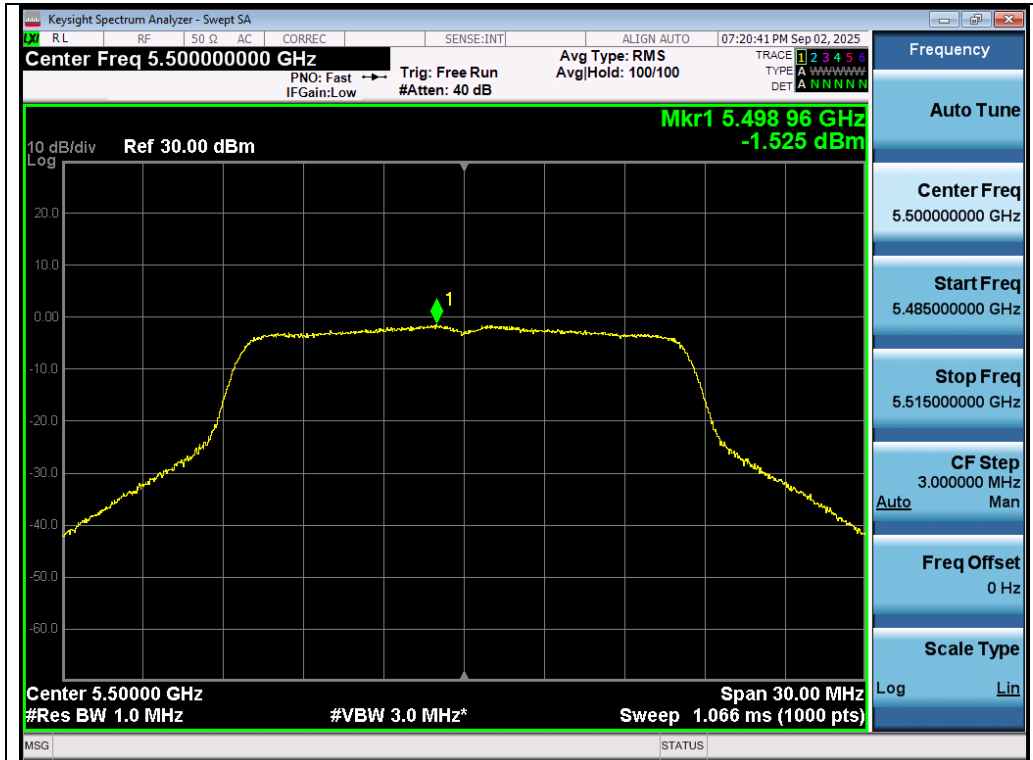
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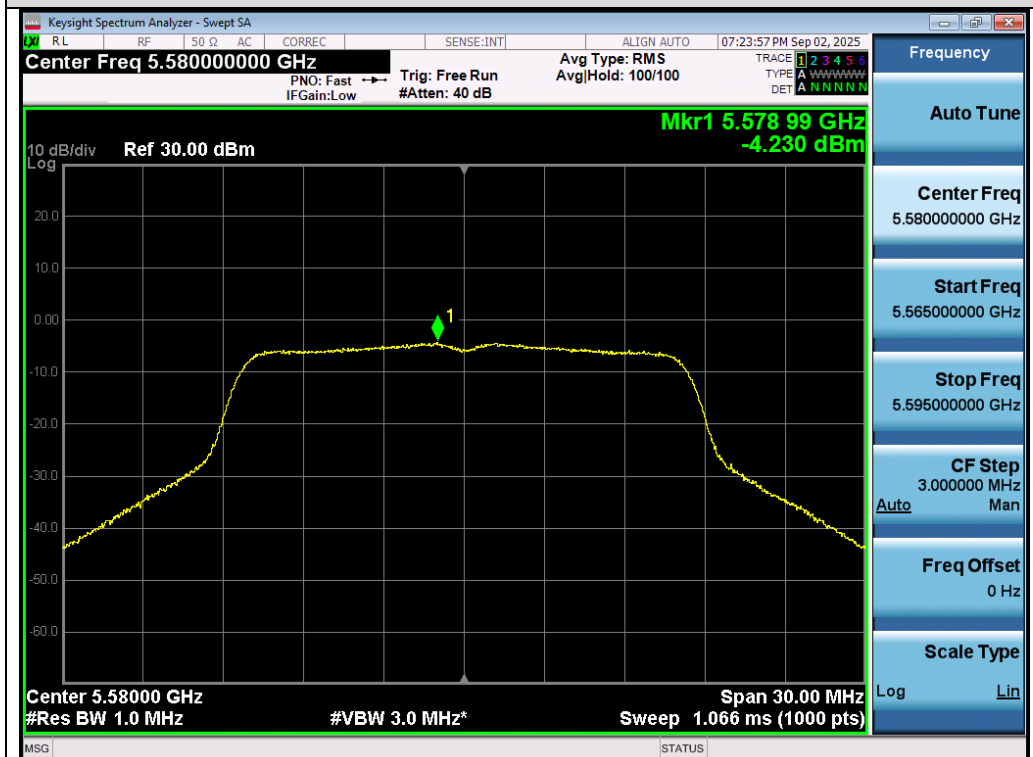


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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

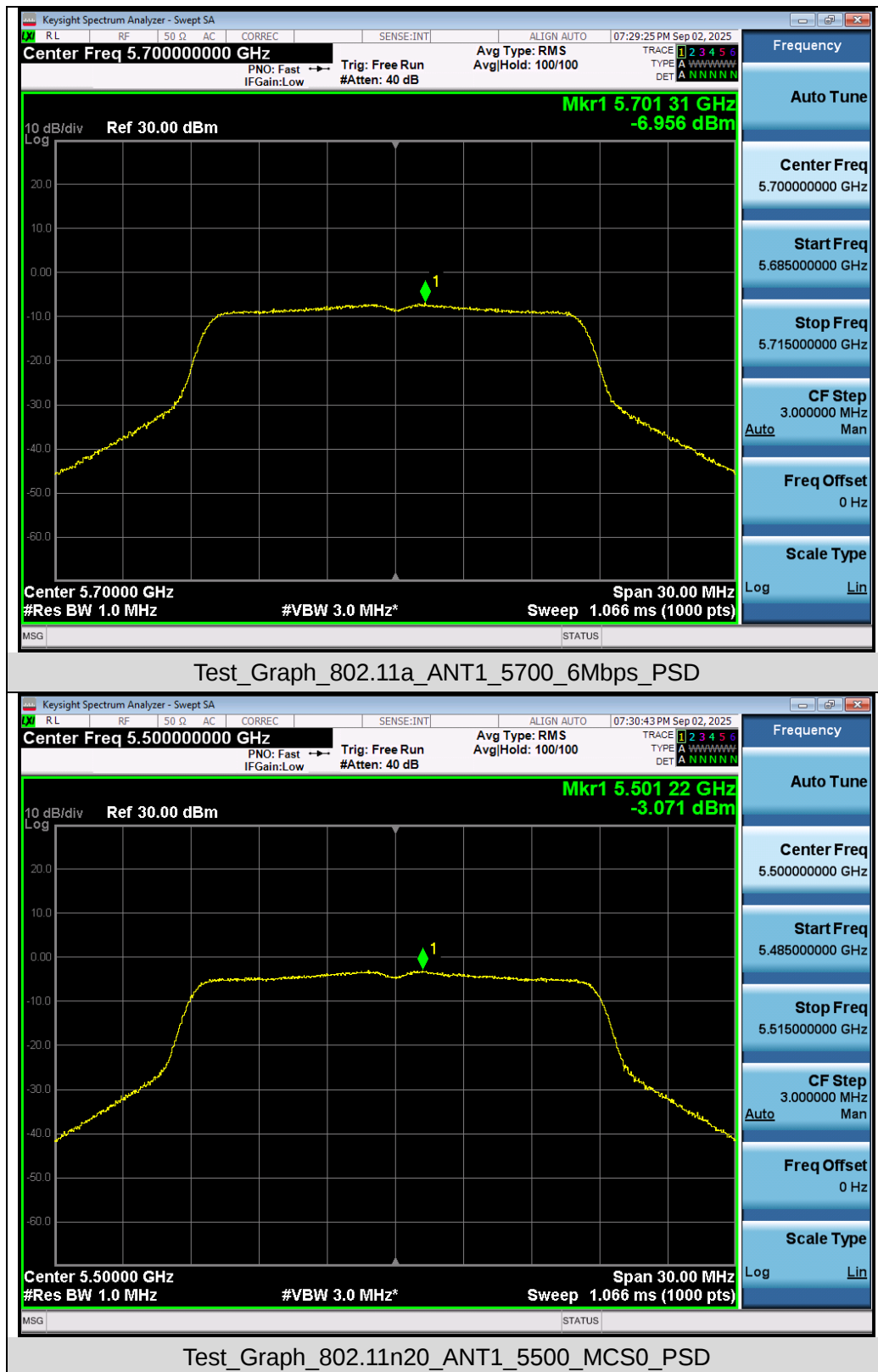


Test_Graph_802.11a_ANT1_5500_6Mbps_PSD



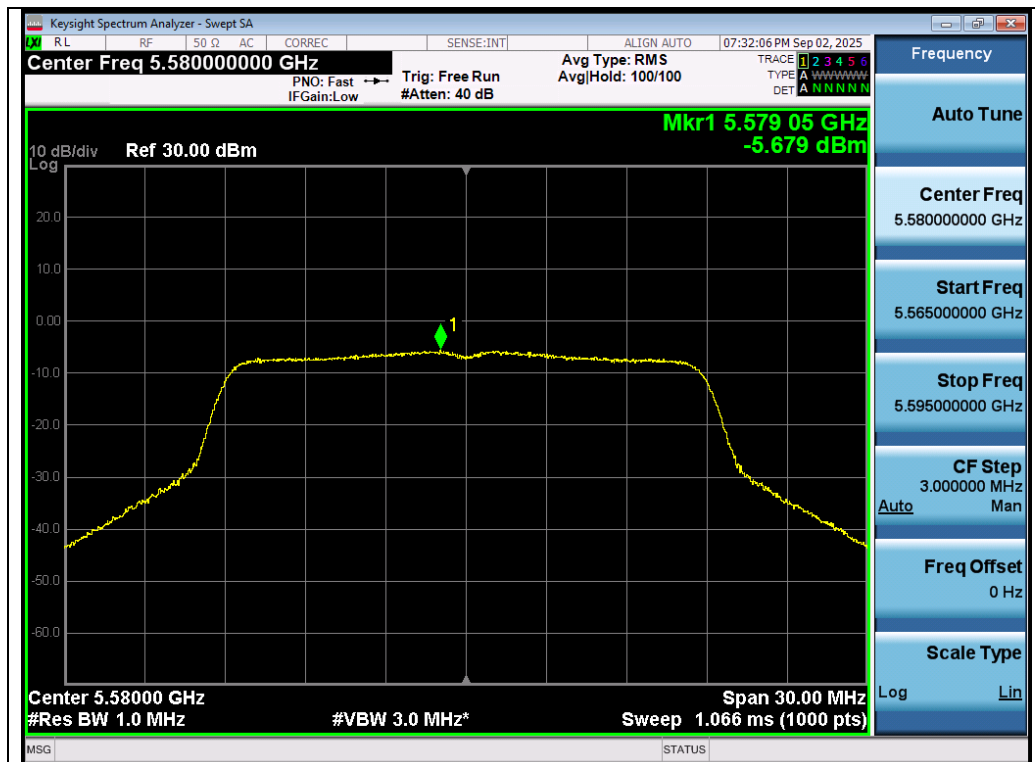
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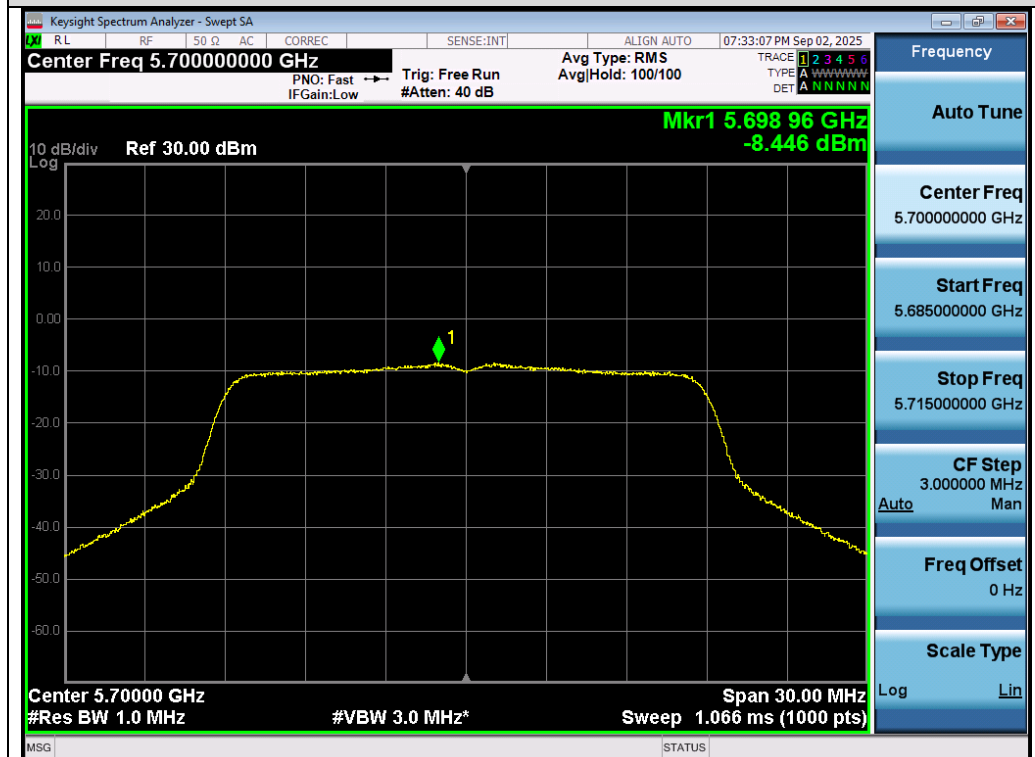


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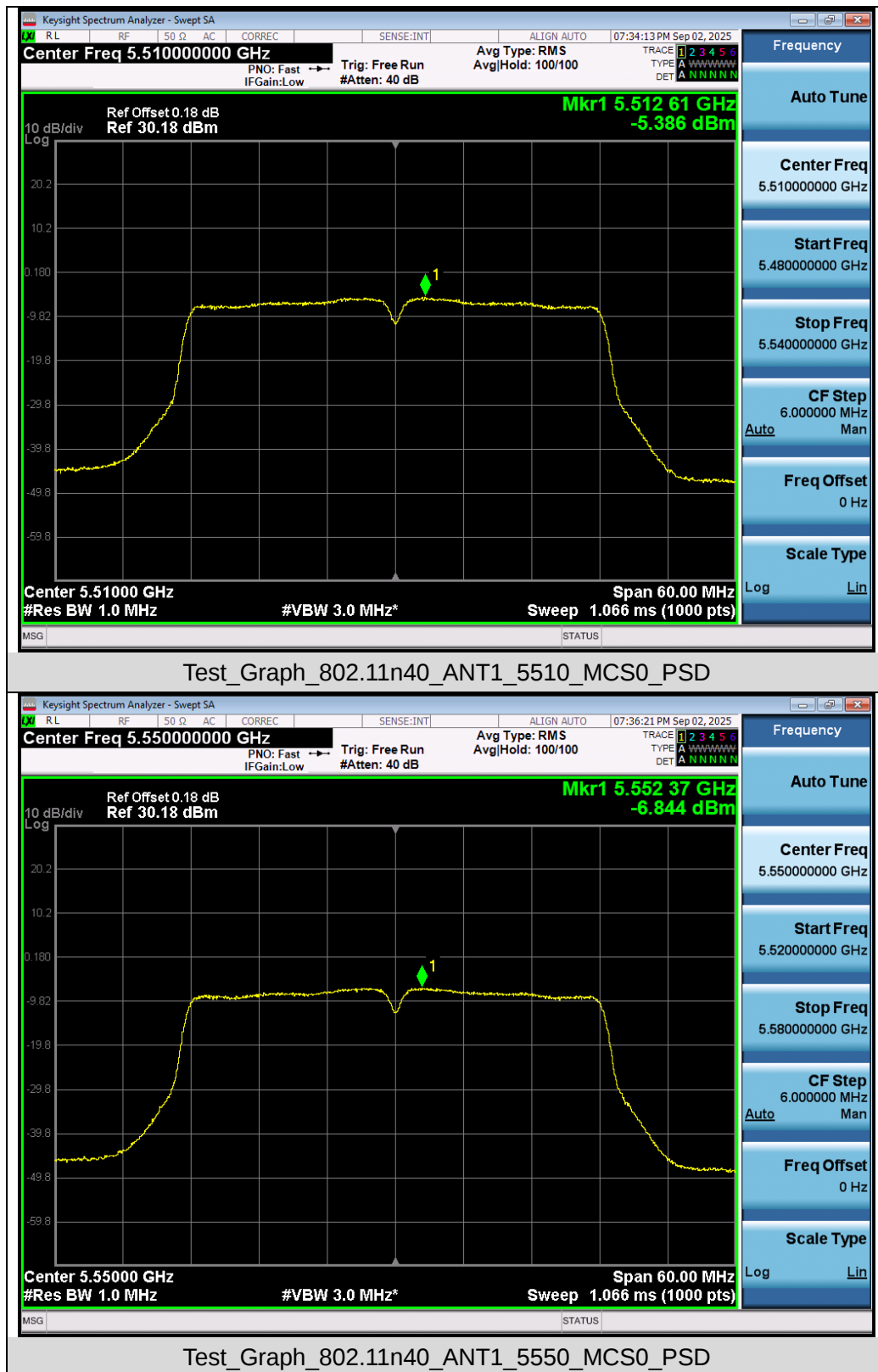
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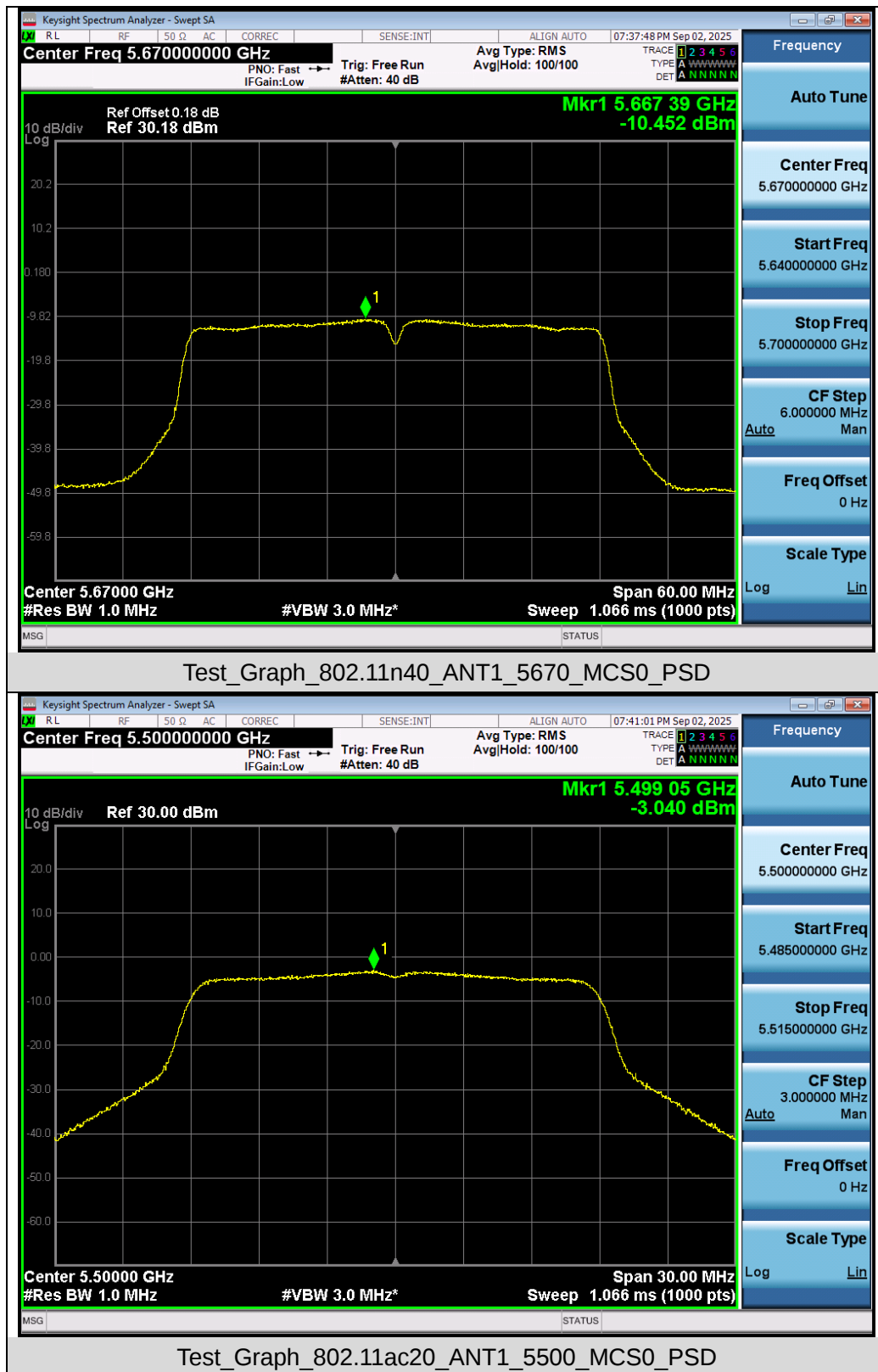
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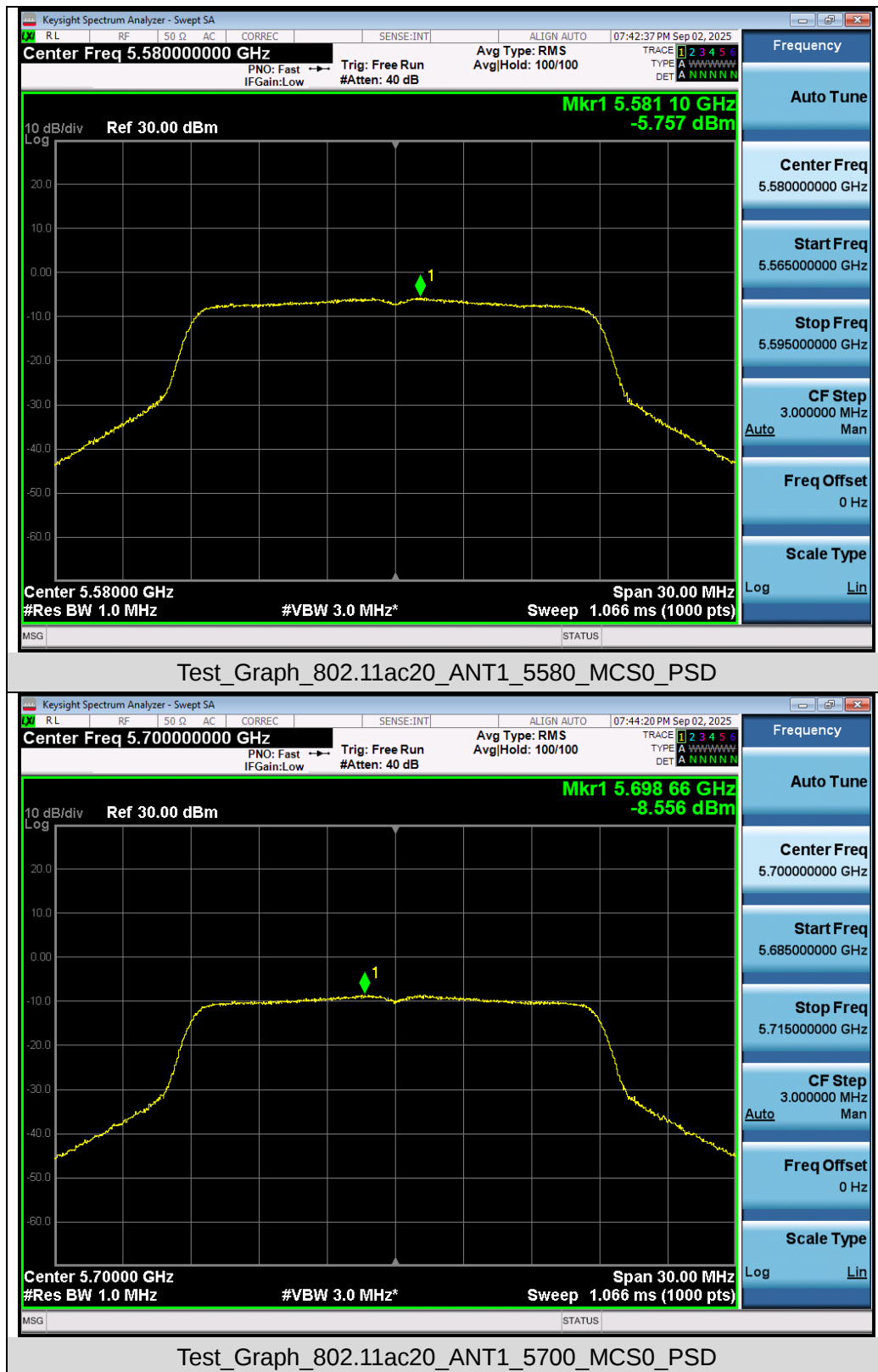
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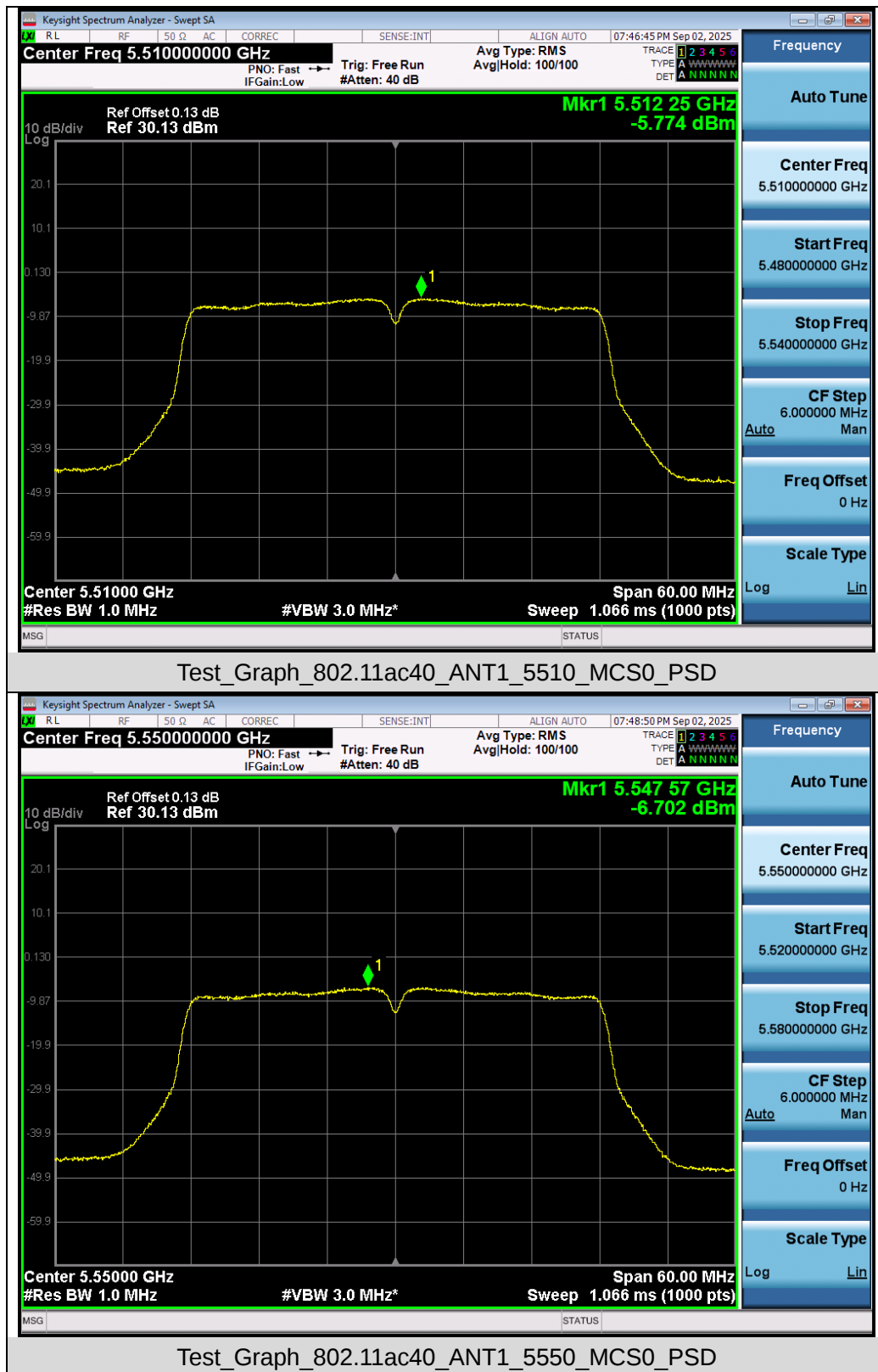
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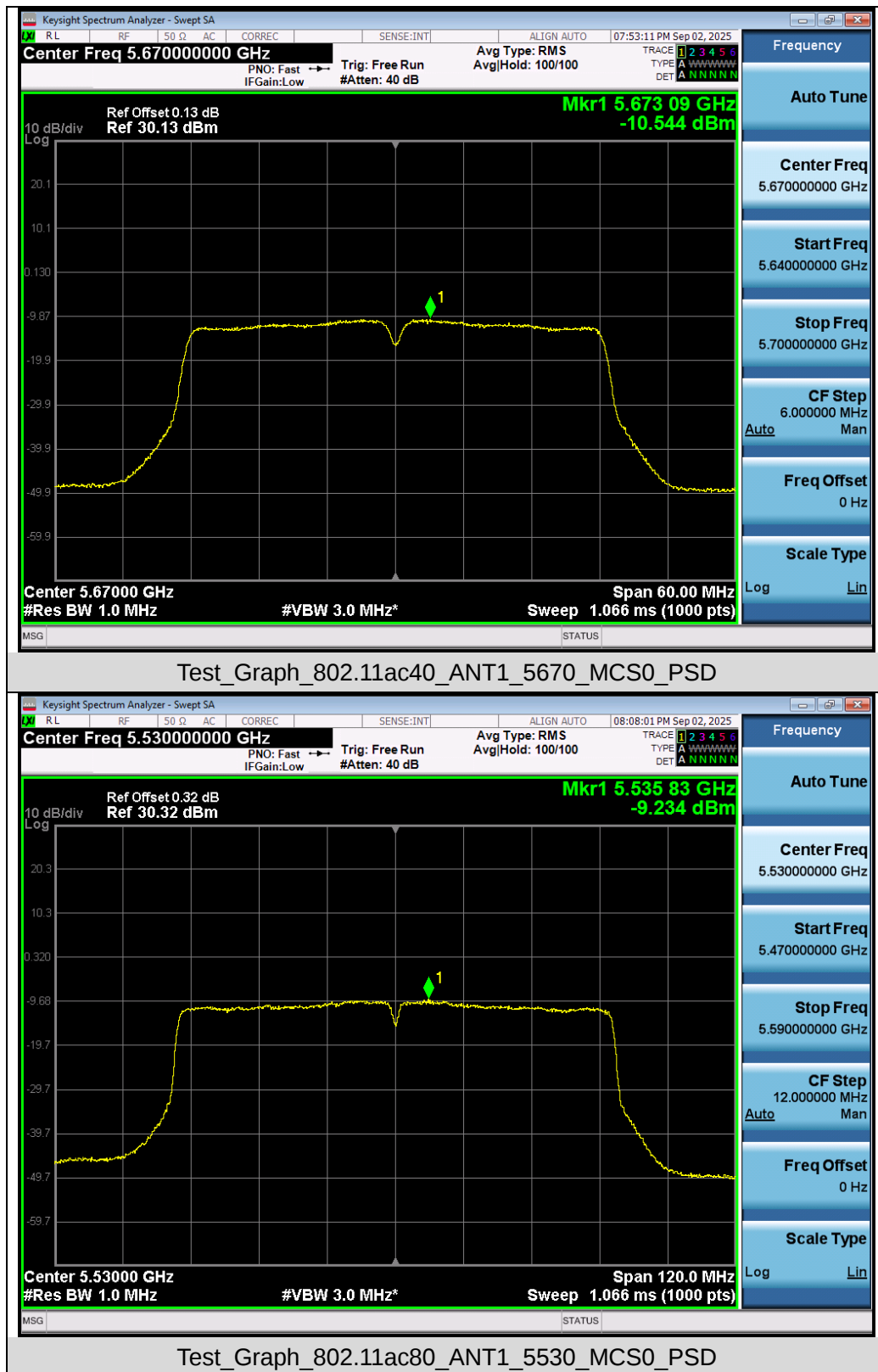
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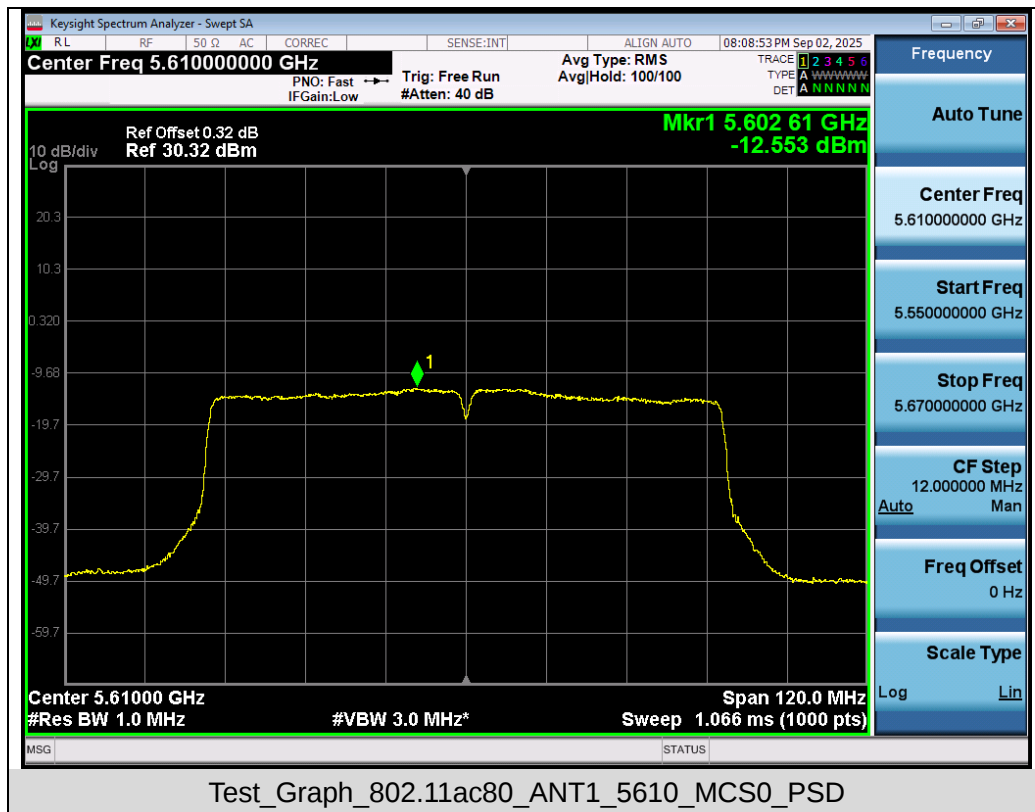
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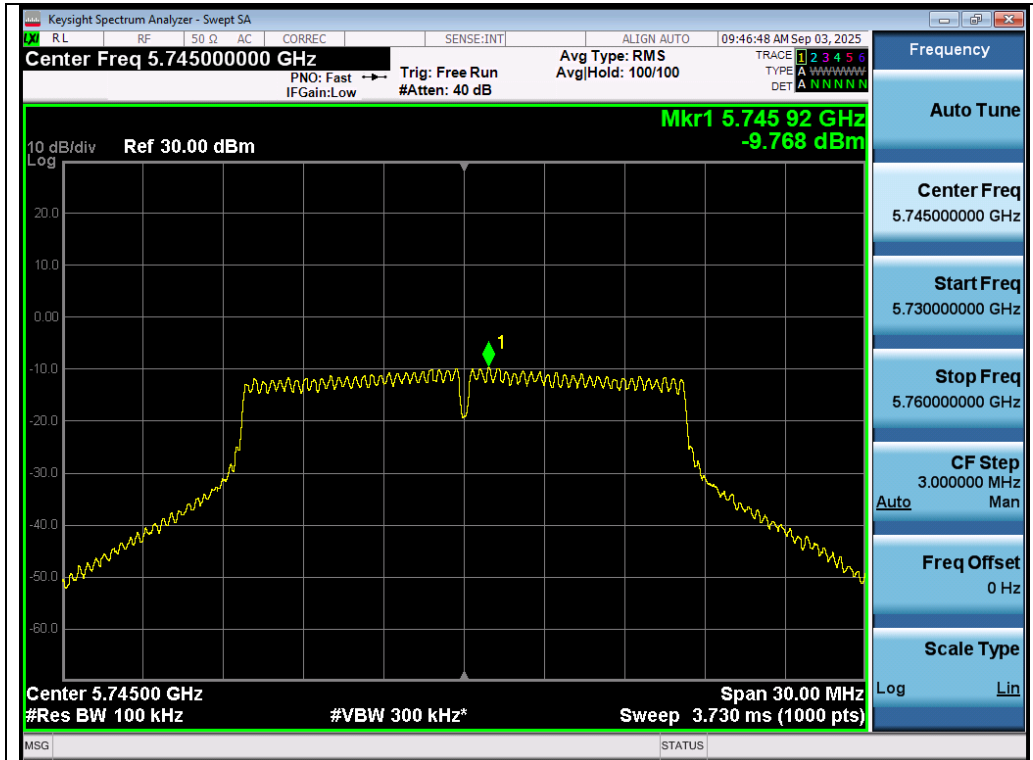
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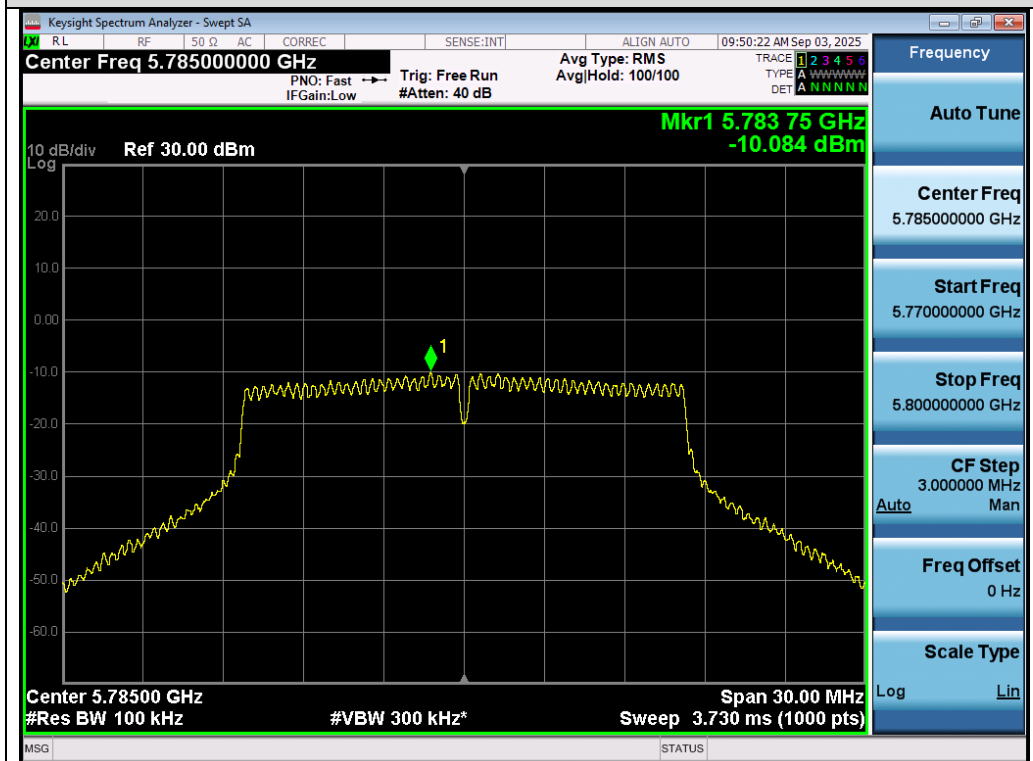
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

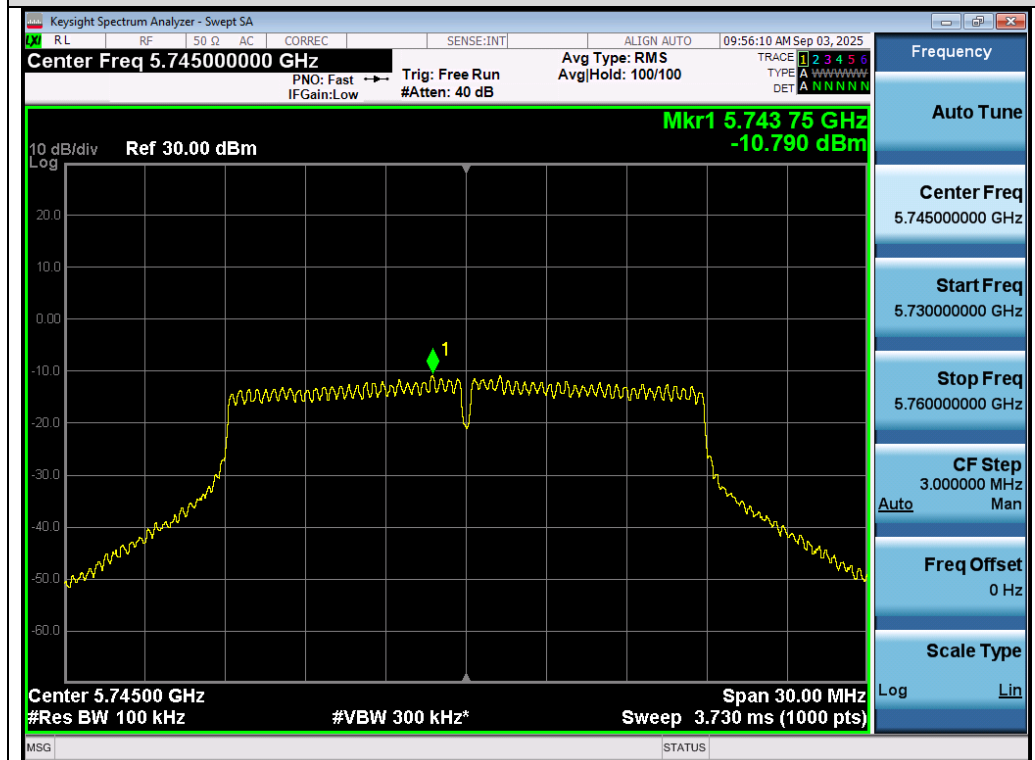
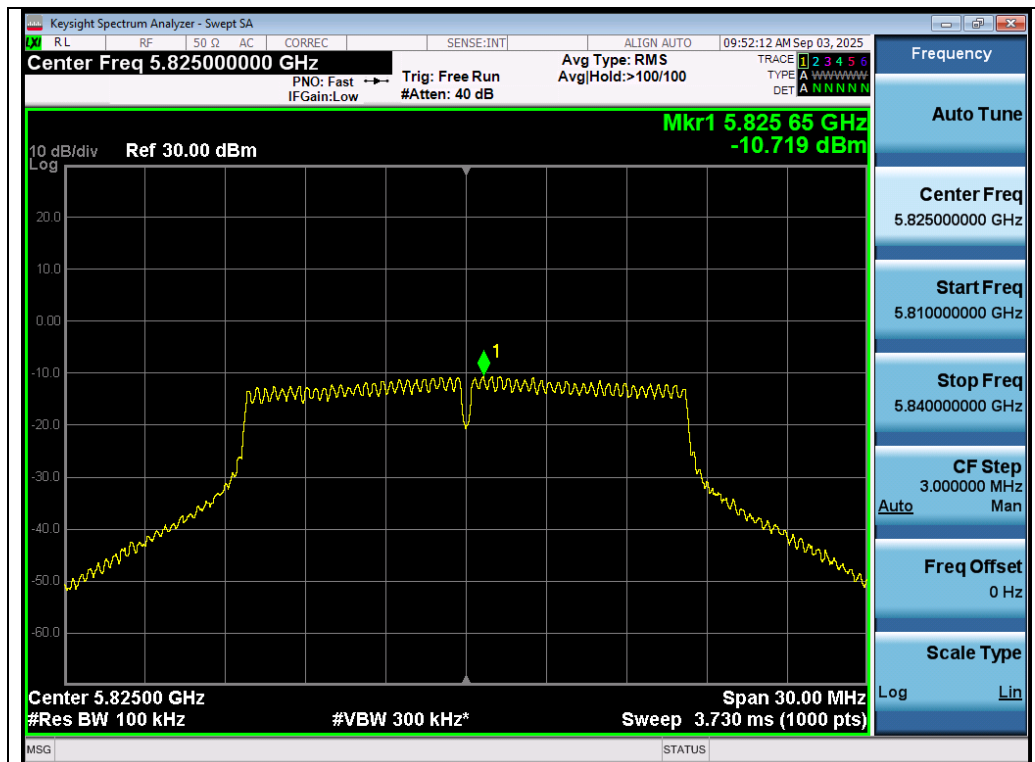


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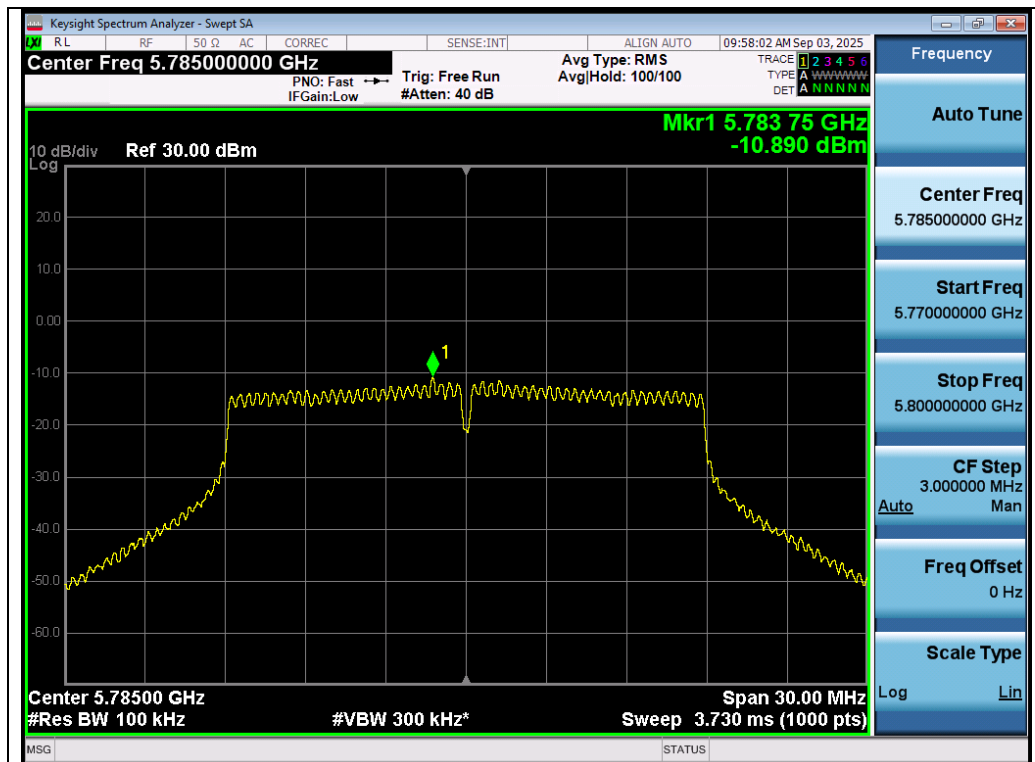
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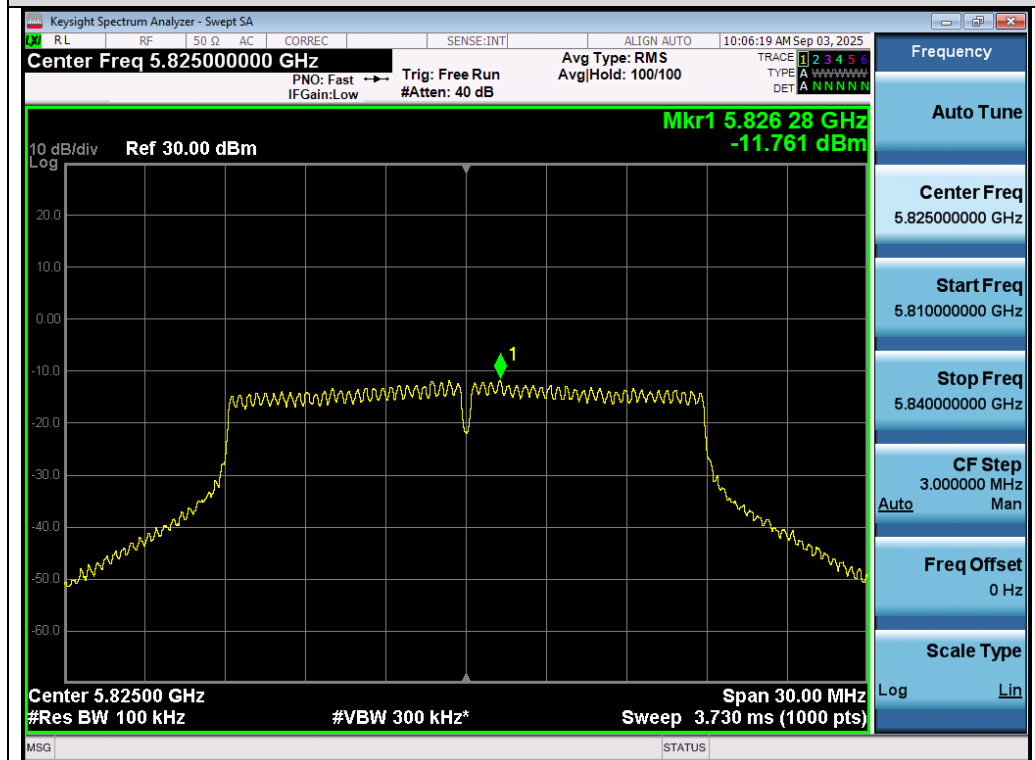


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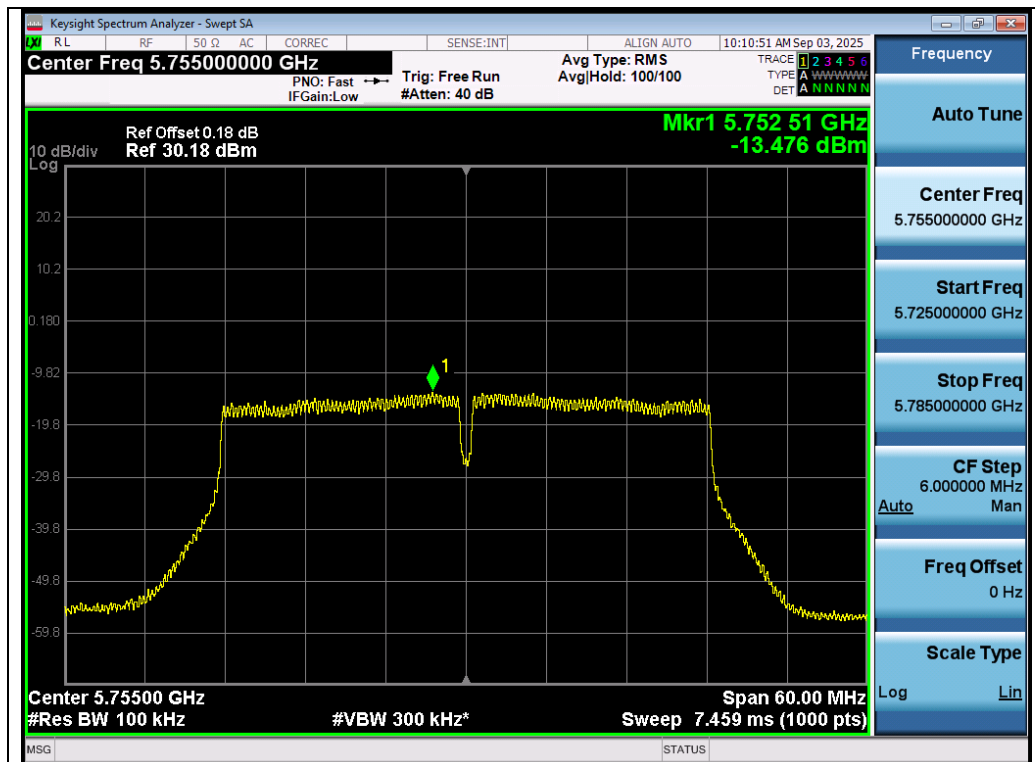
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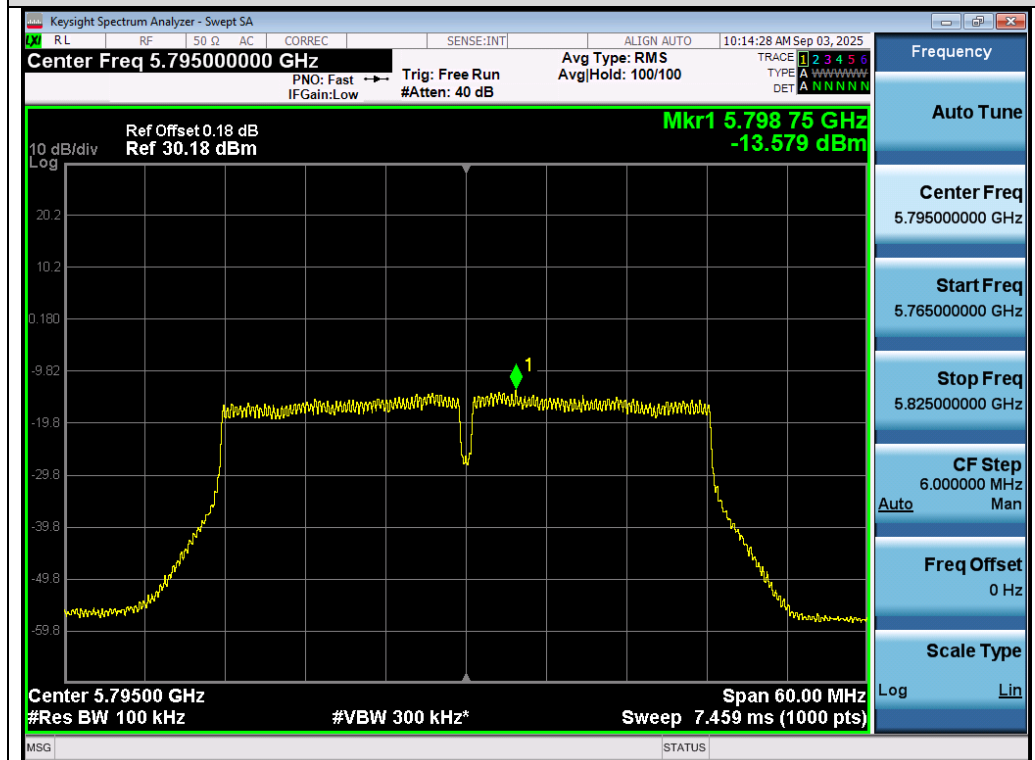
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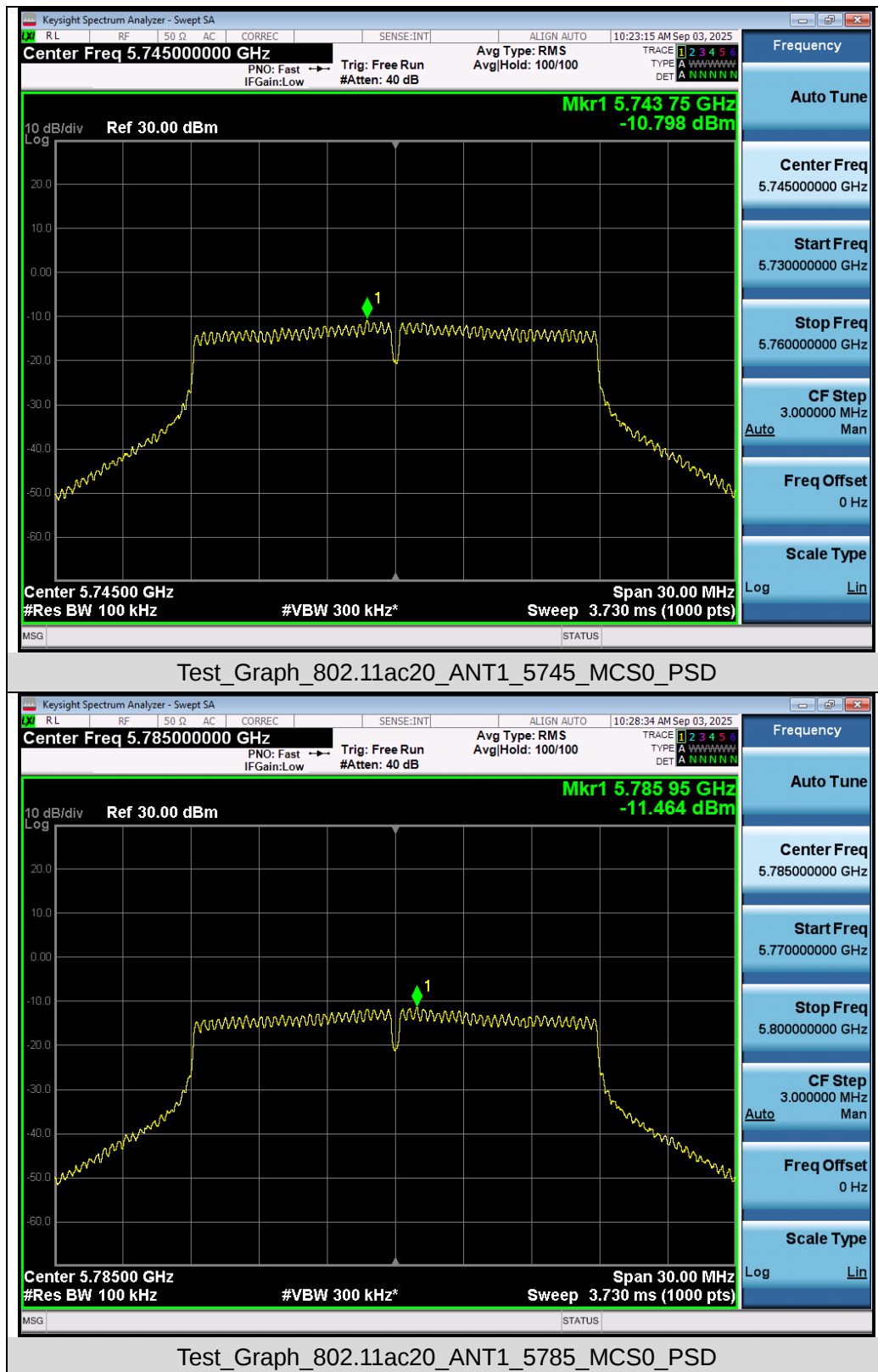
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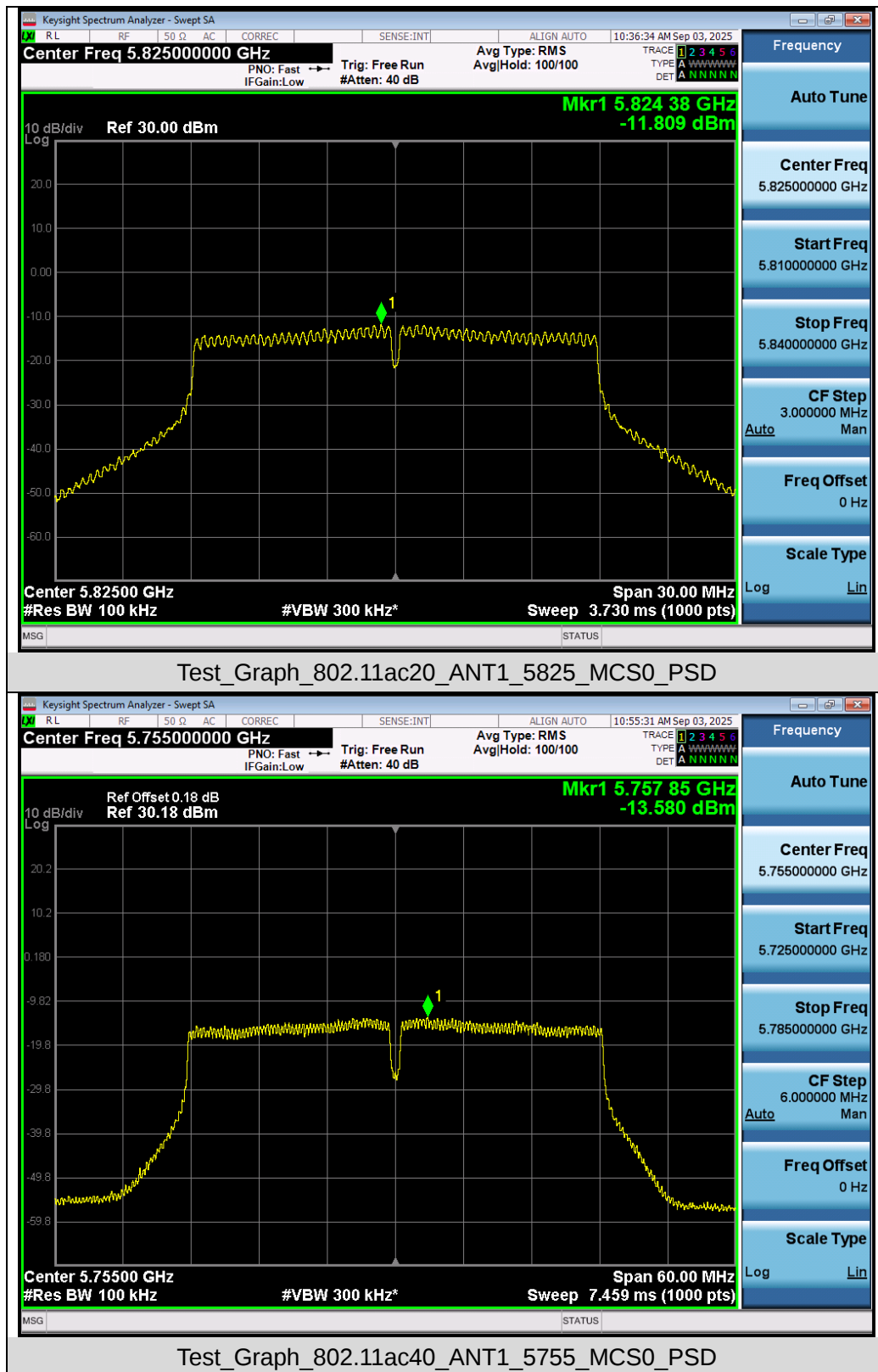
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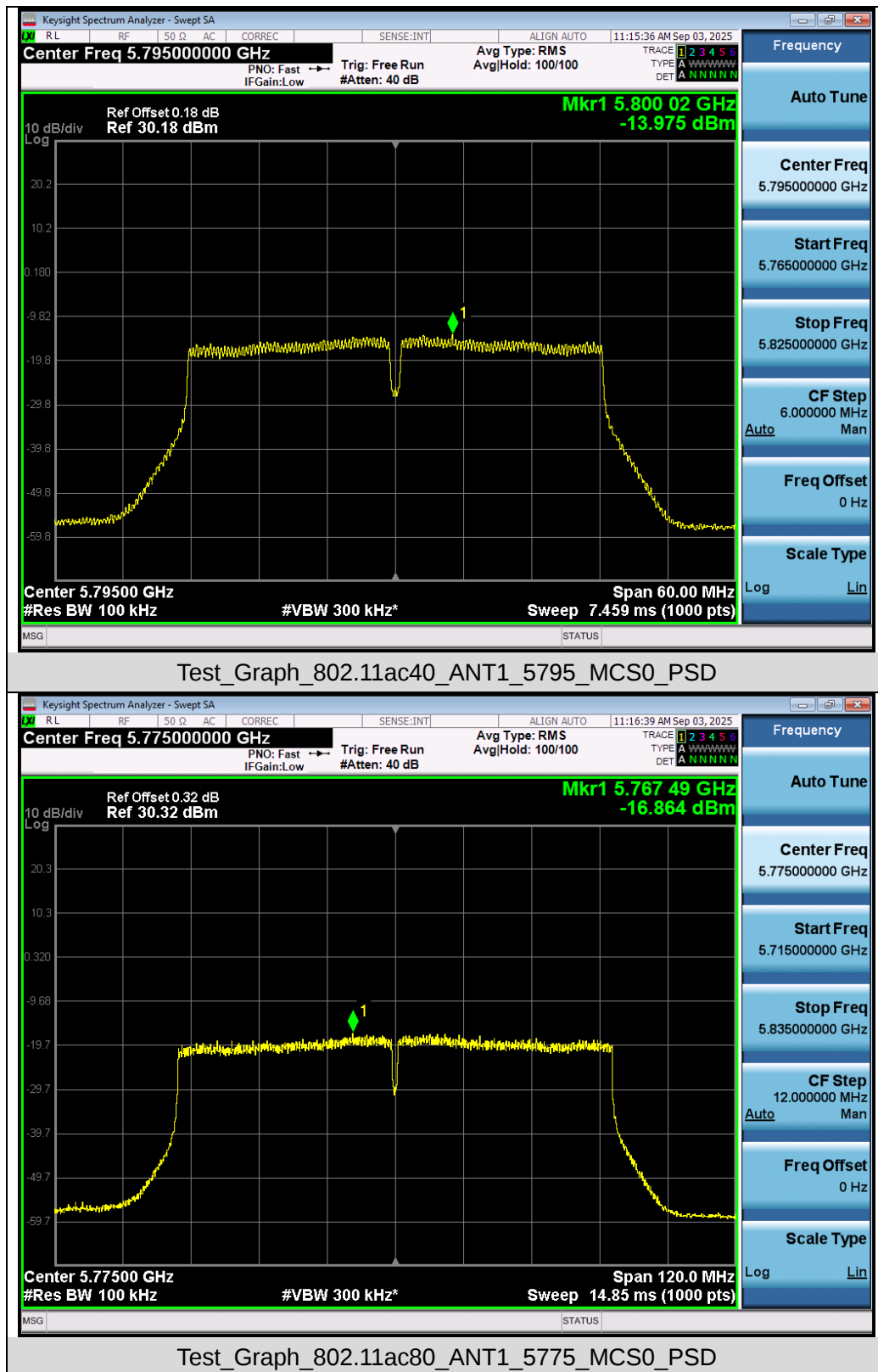


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10. Conducted Band Edge and Out-of-Band Emissions

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:

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

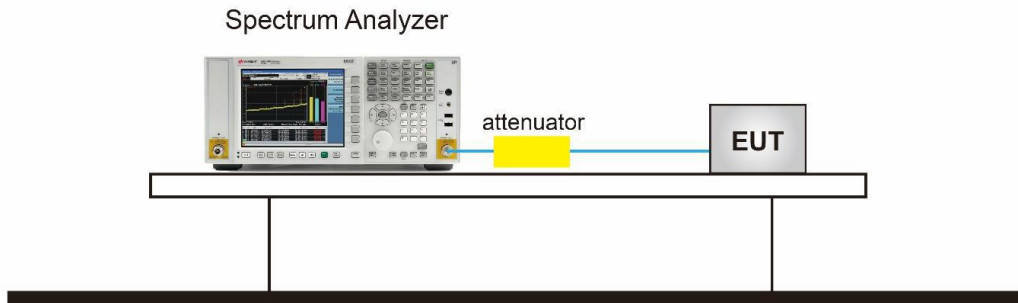
Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below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

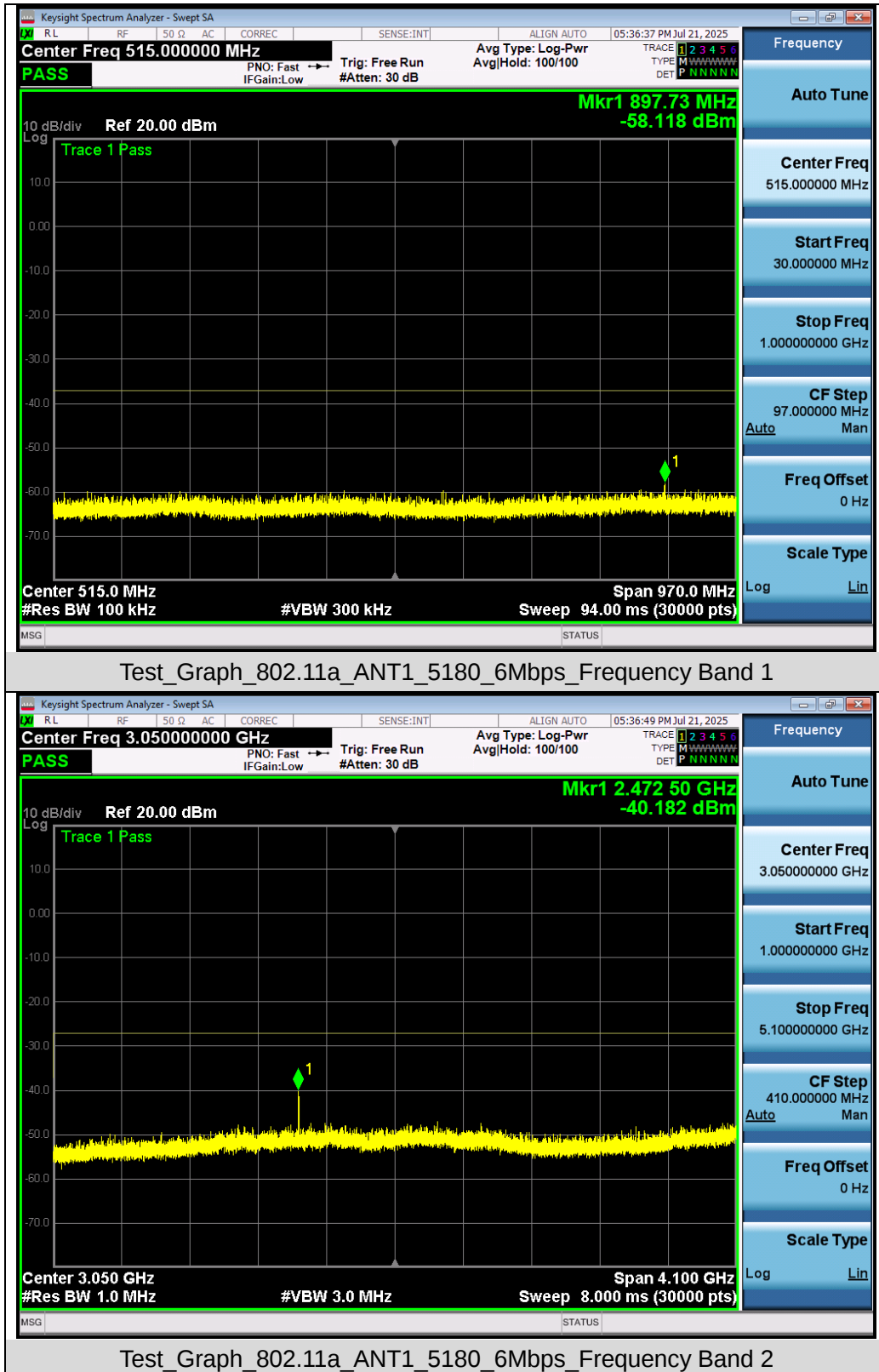


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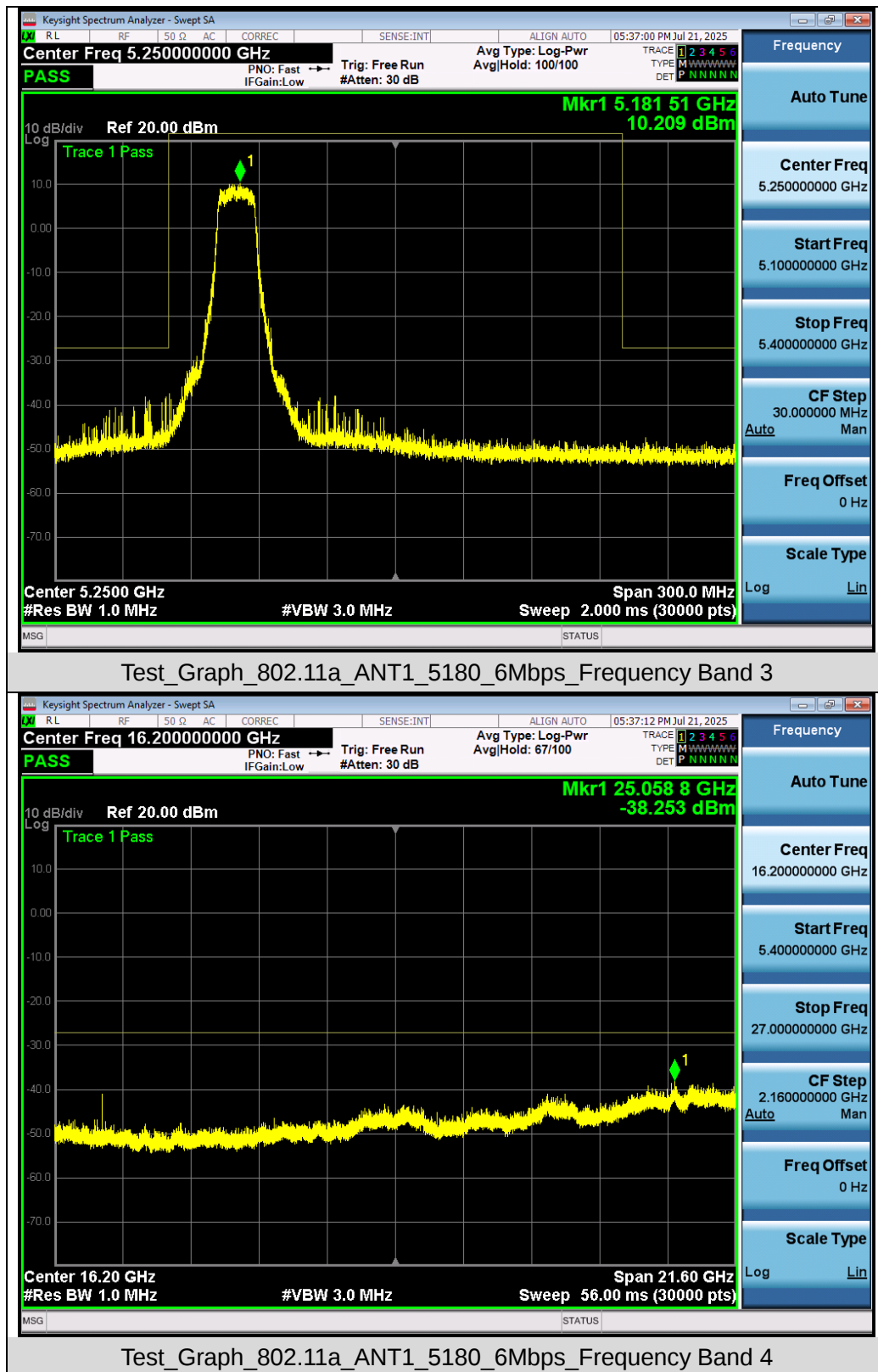
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10.4 Measurement Results

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

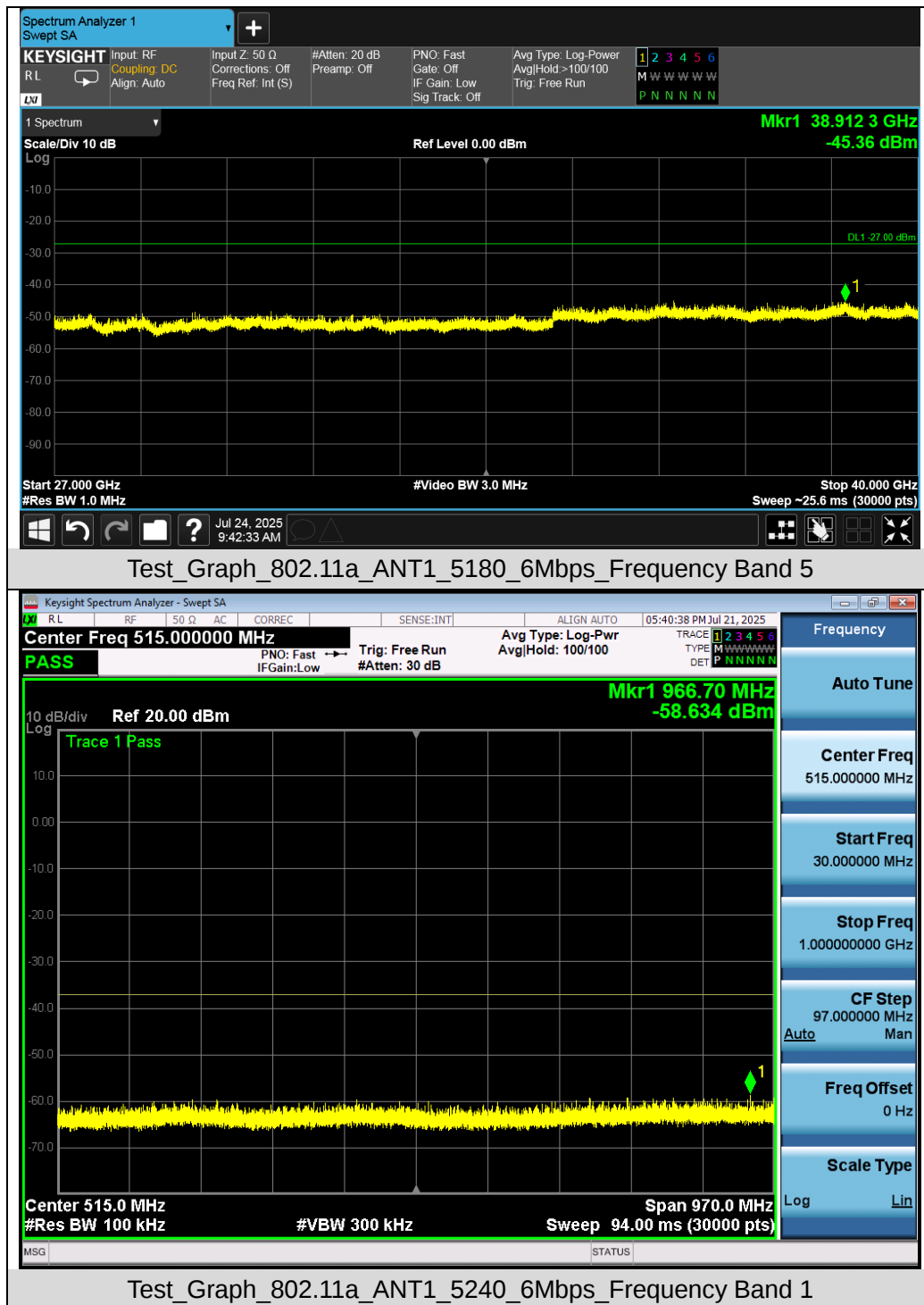


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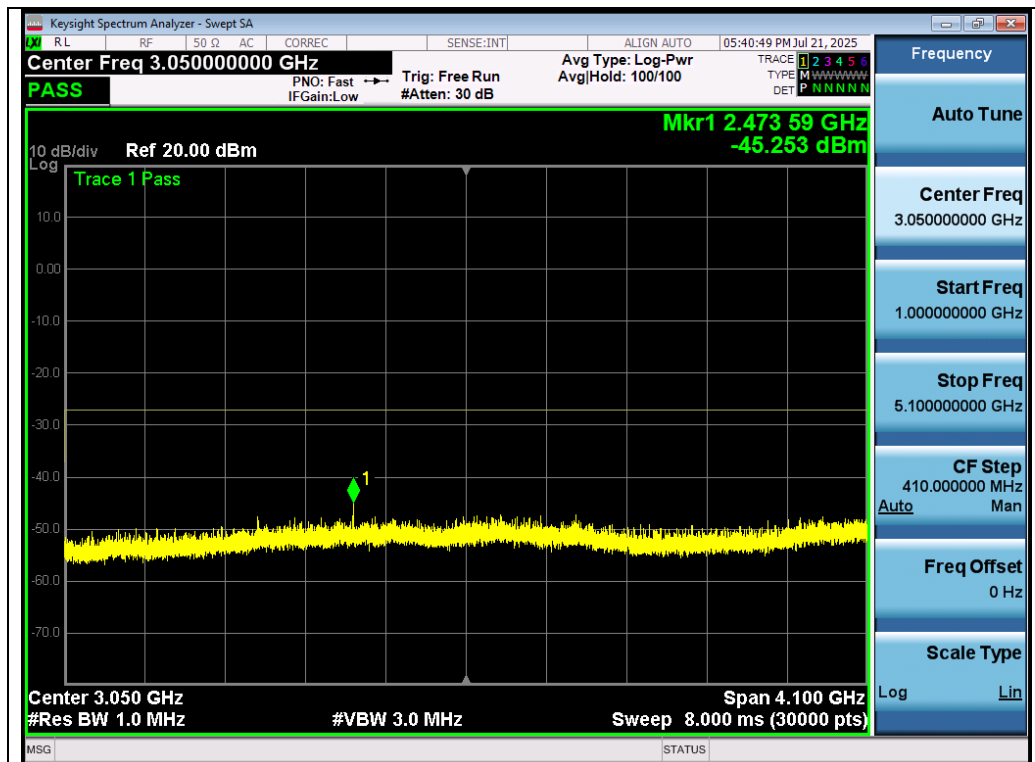


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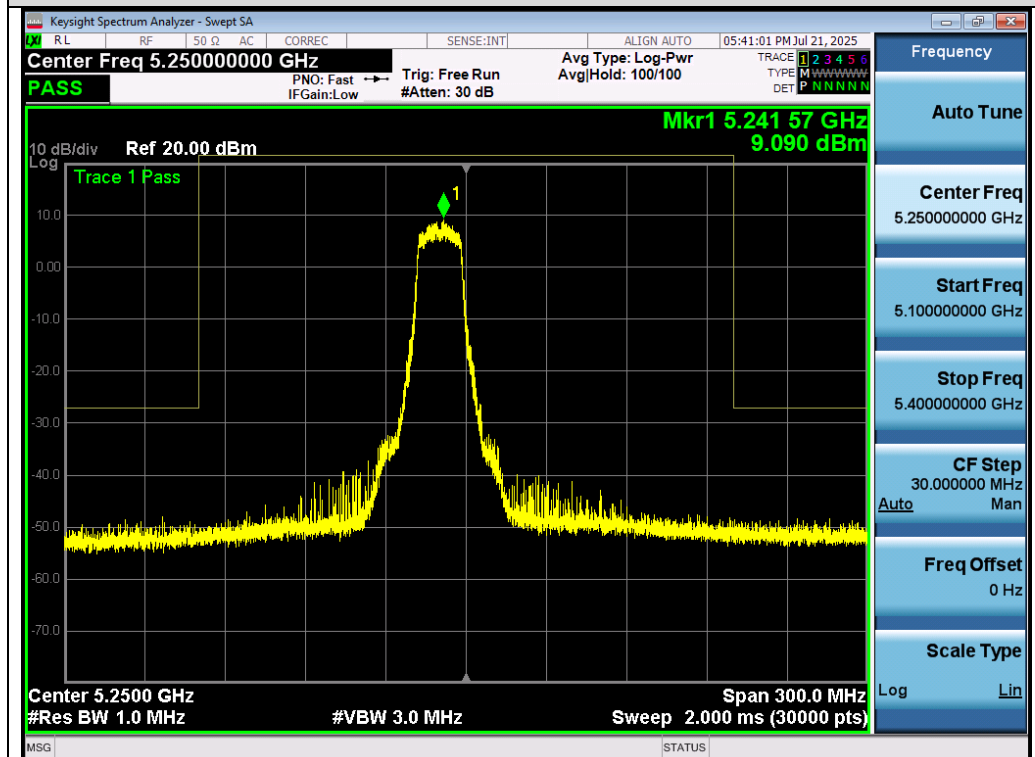
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Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 2

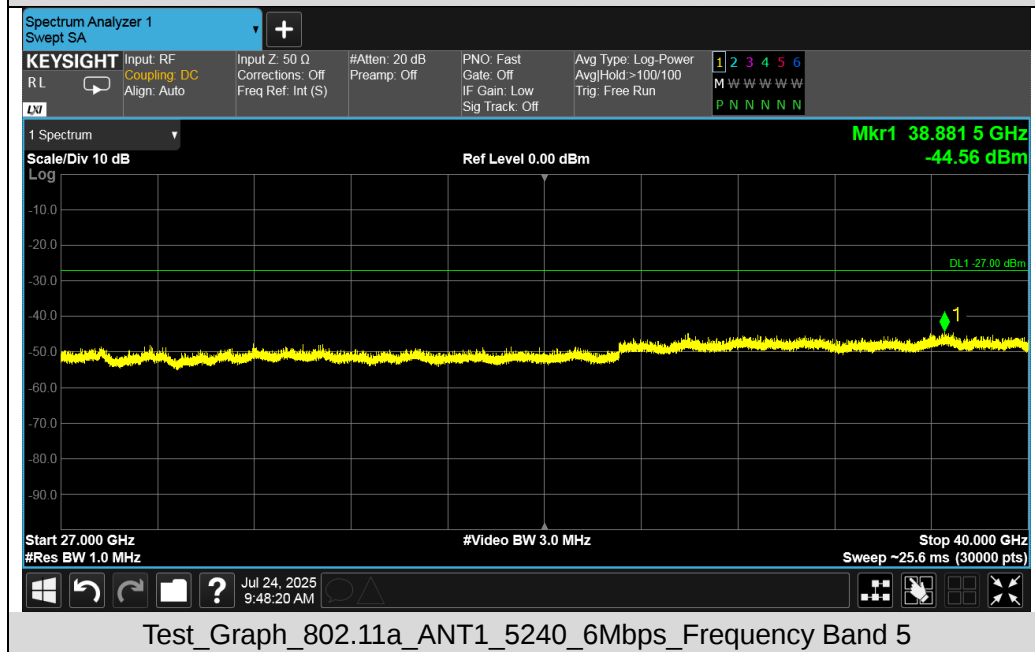


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 3

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Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 4



Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 5

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