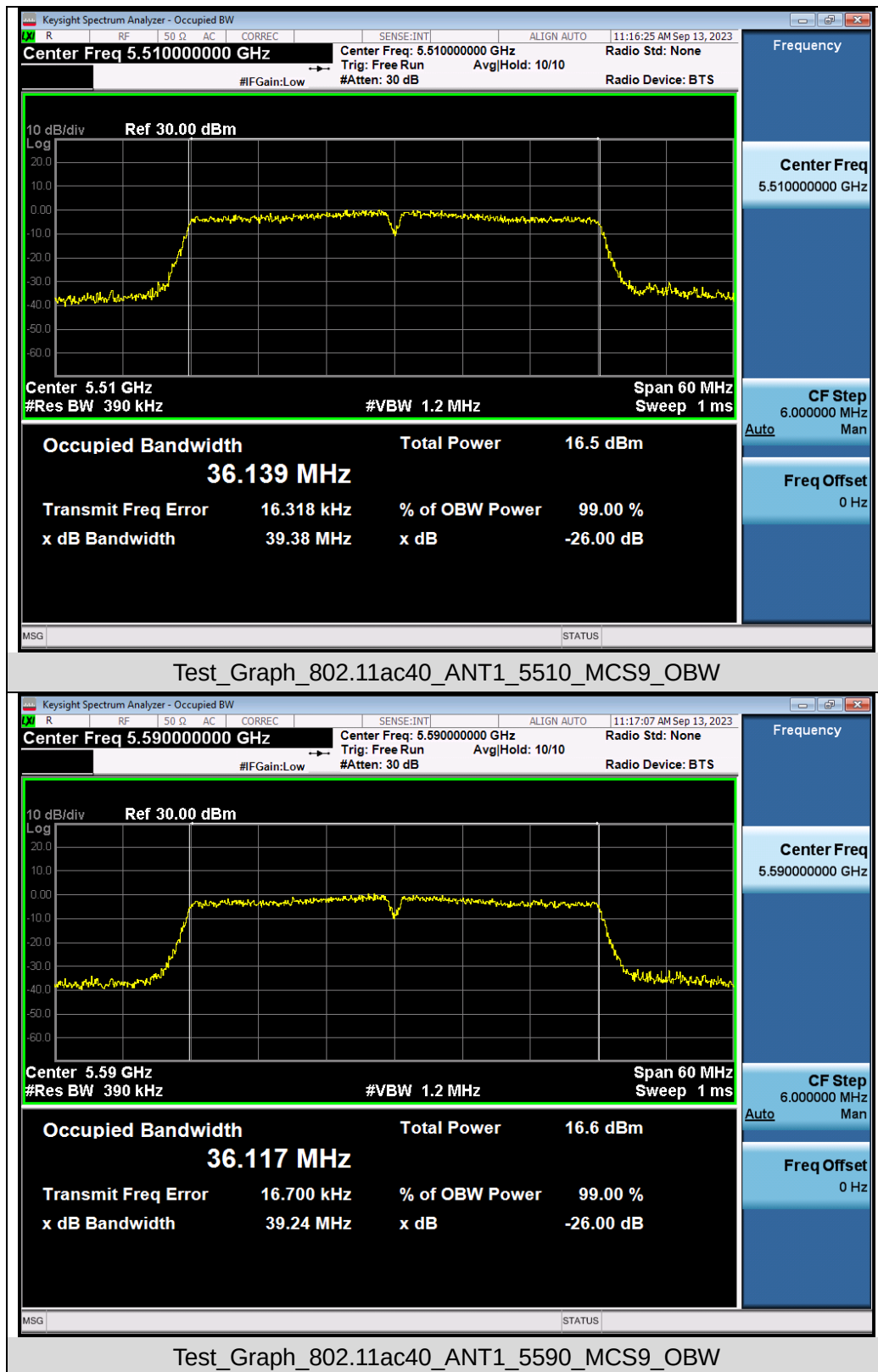
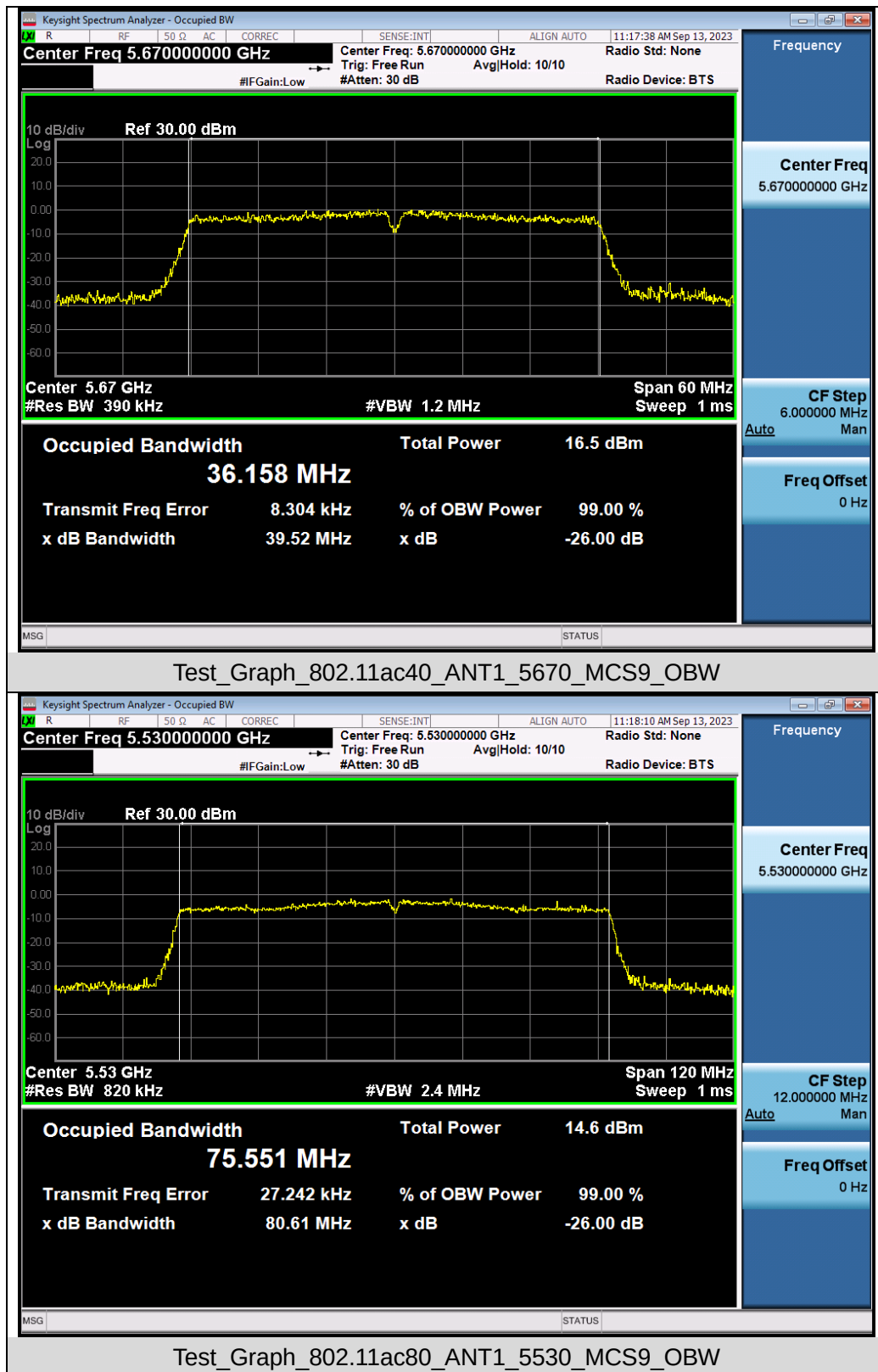


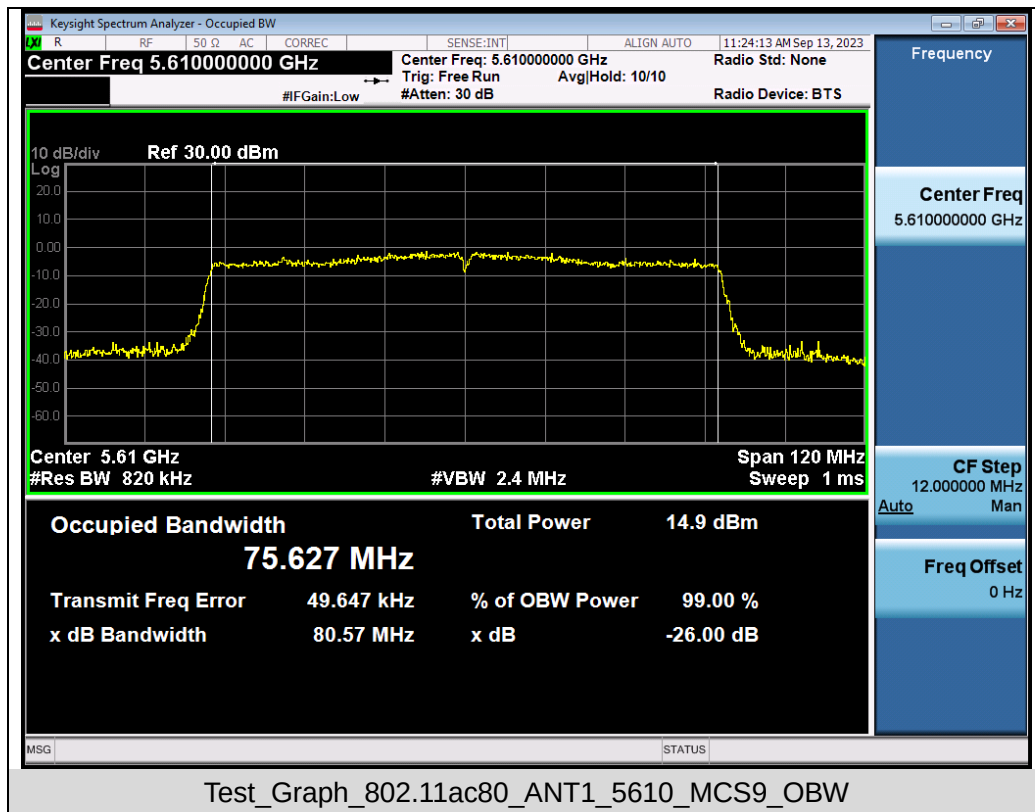


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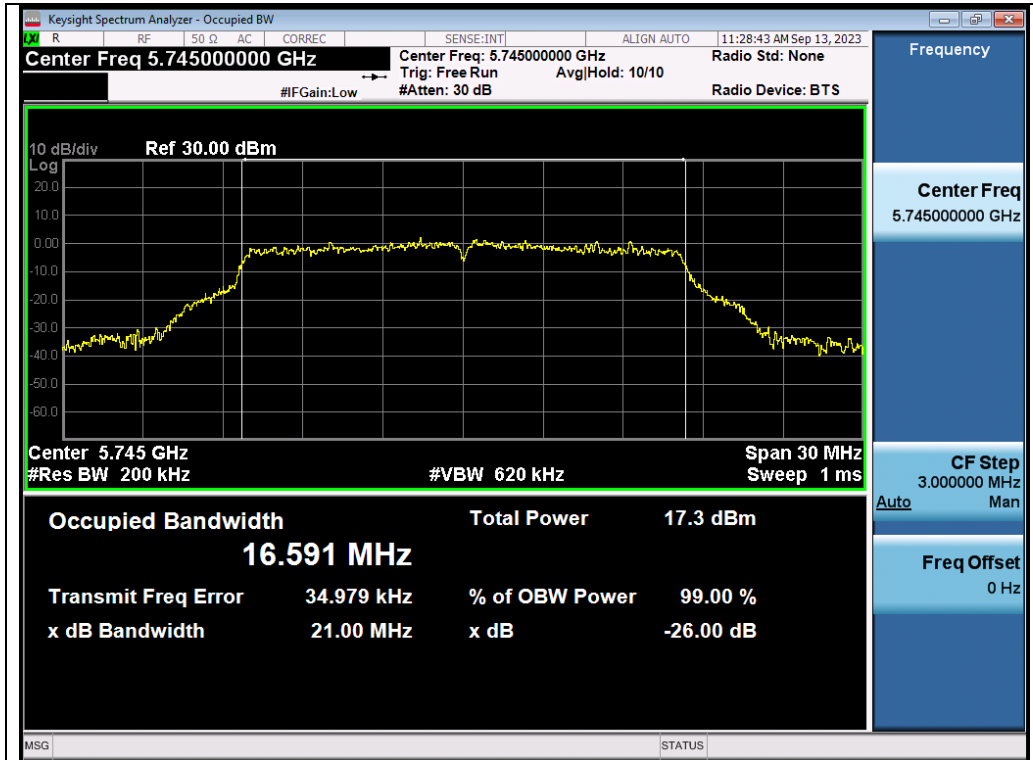
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

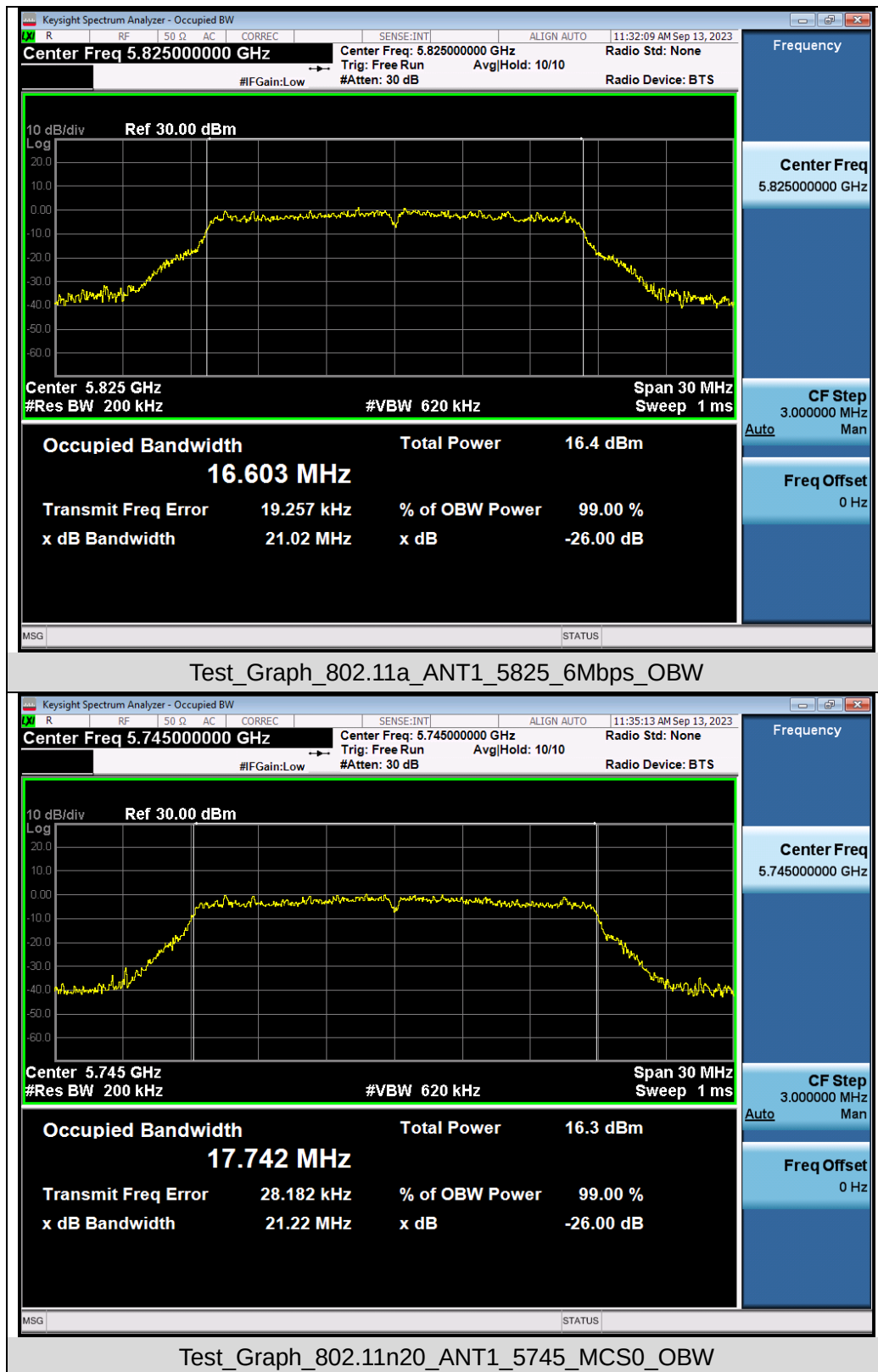


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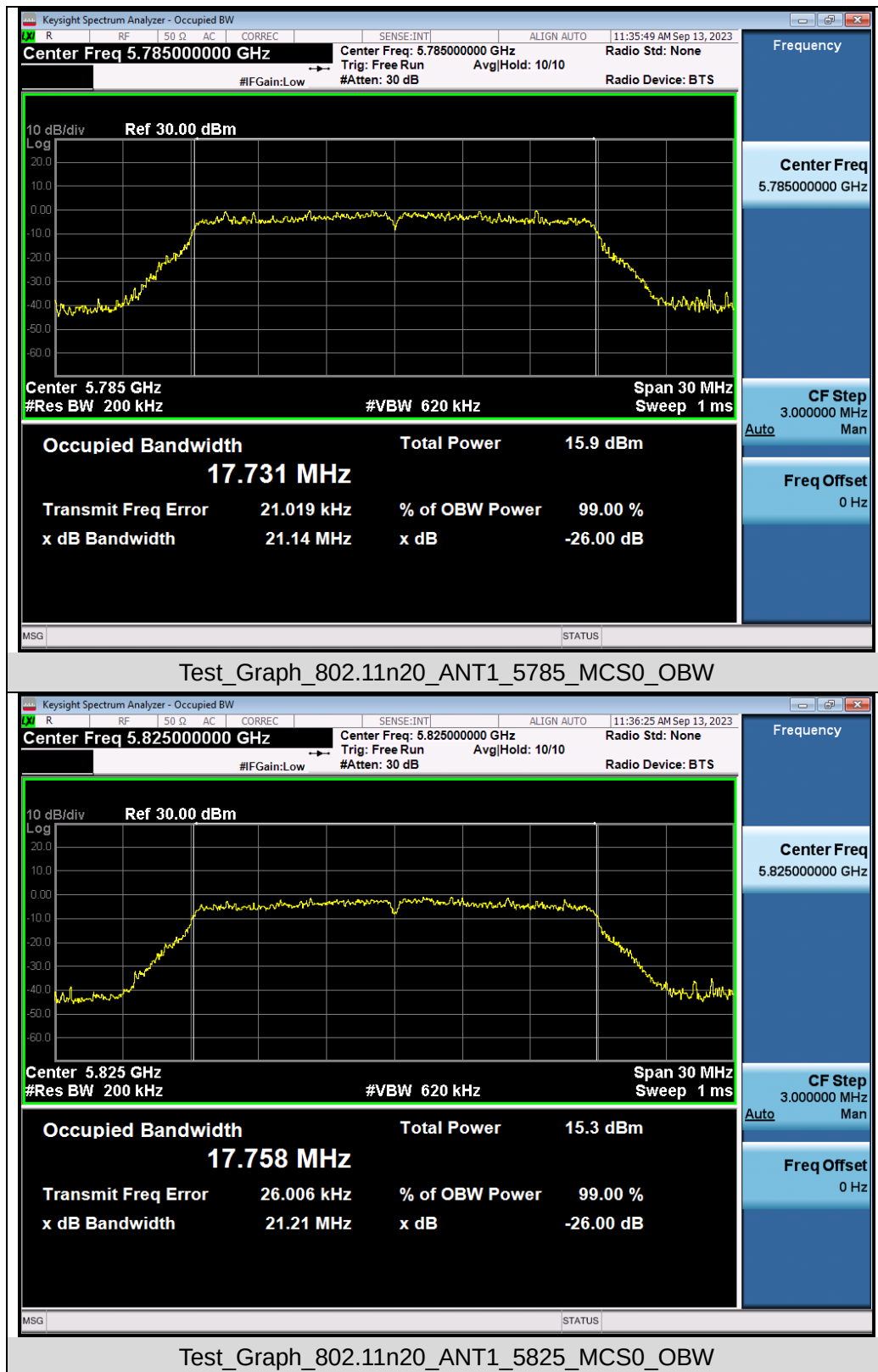


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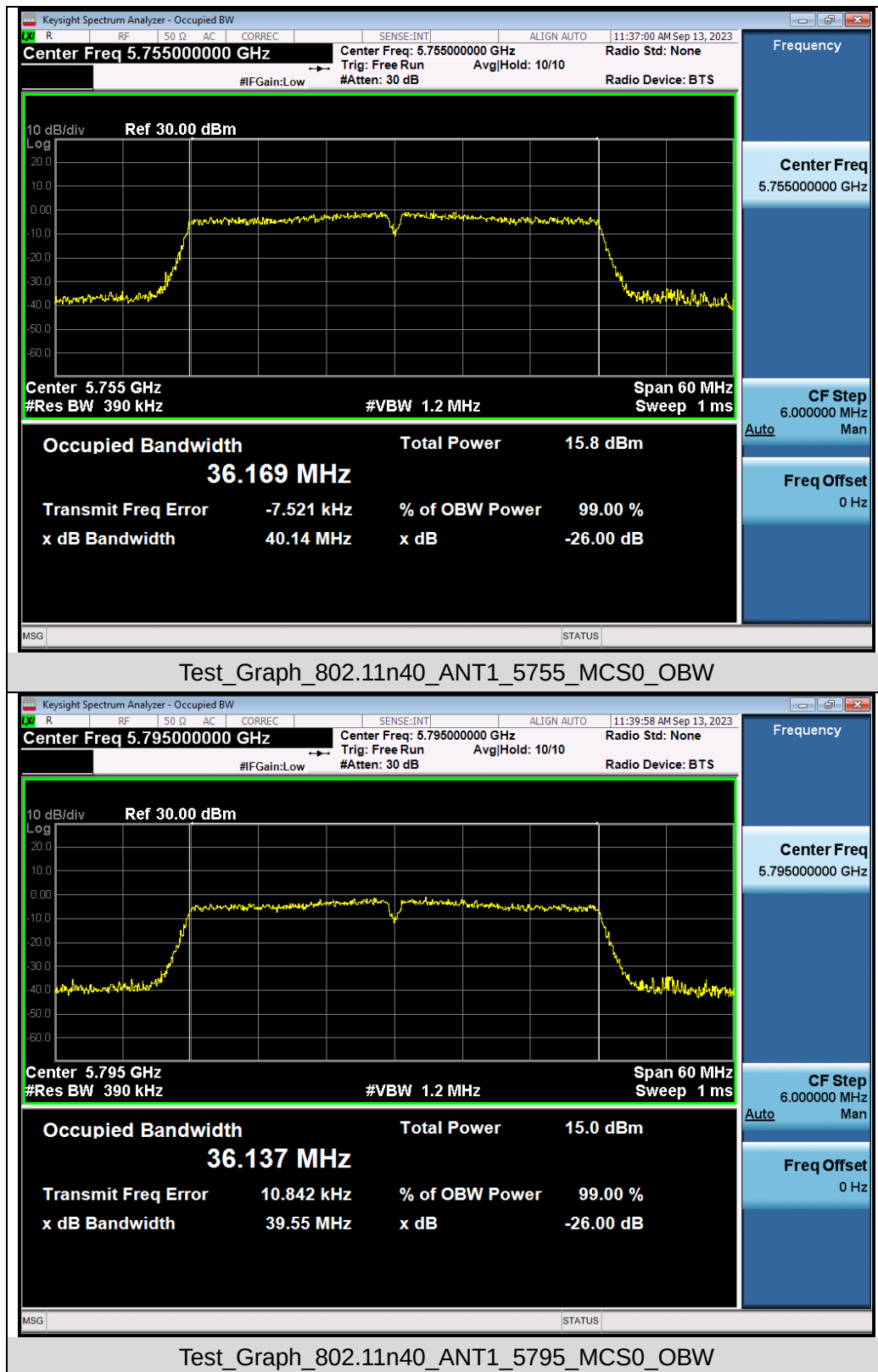
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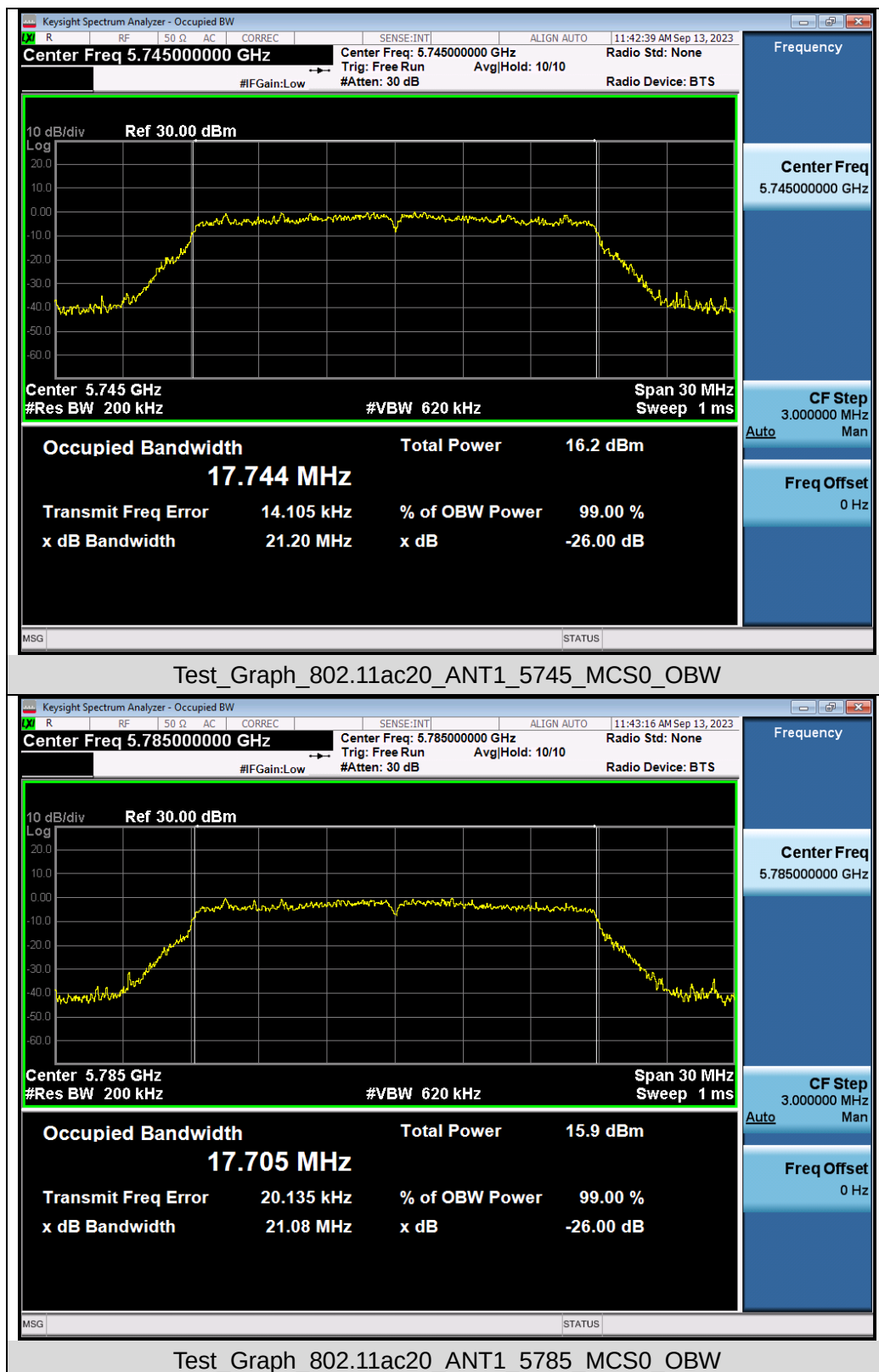
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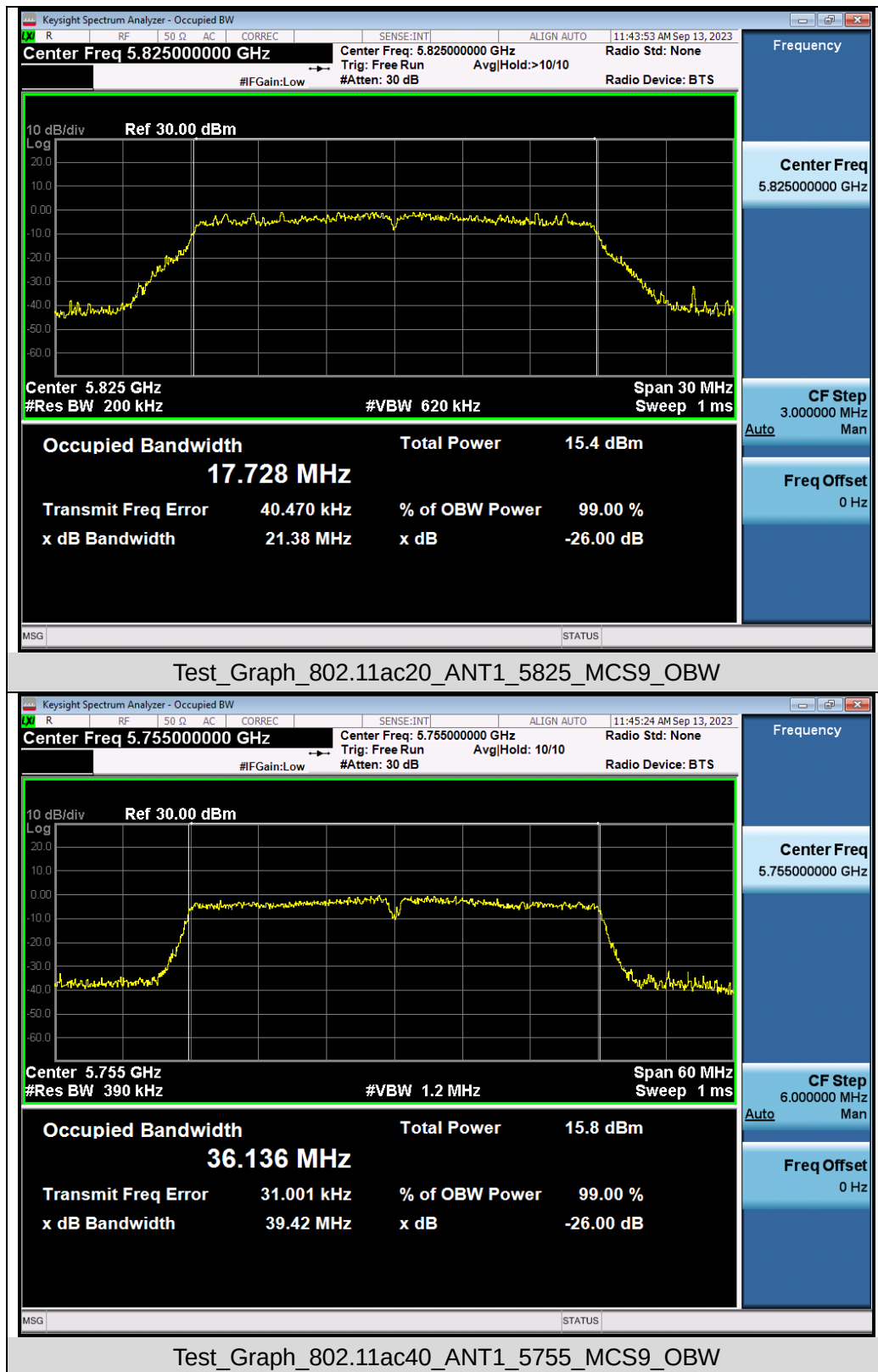
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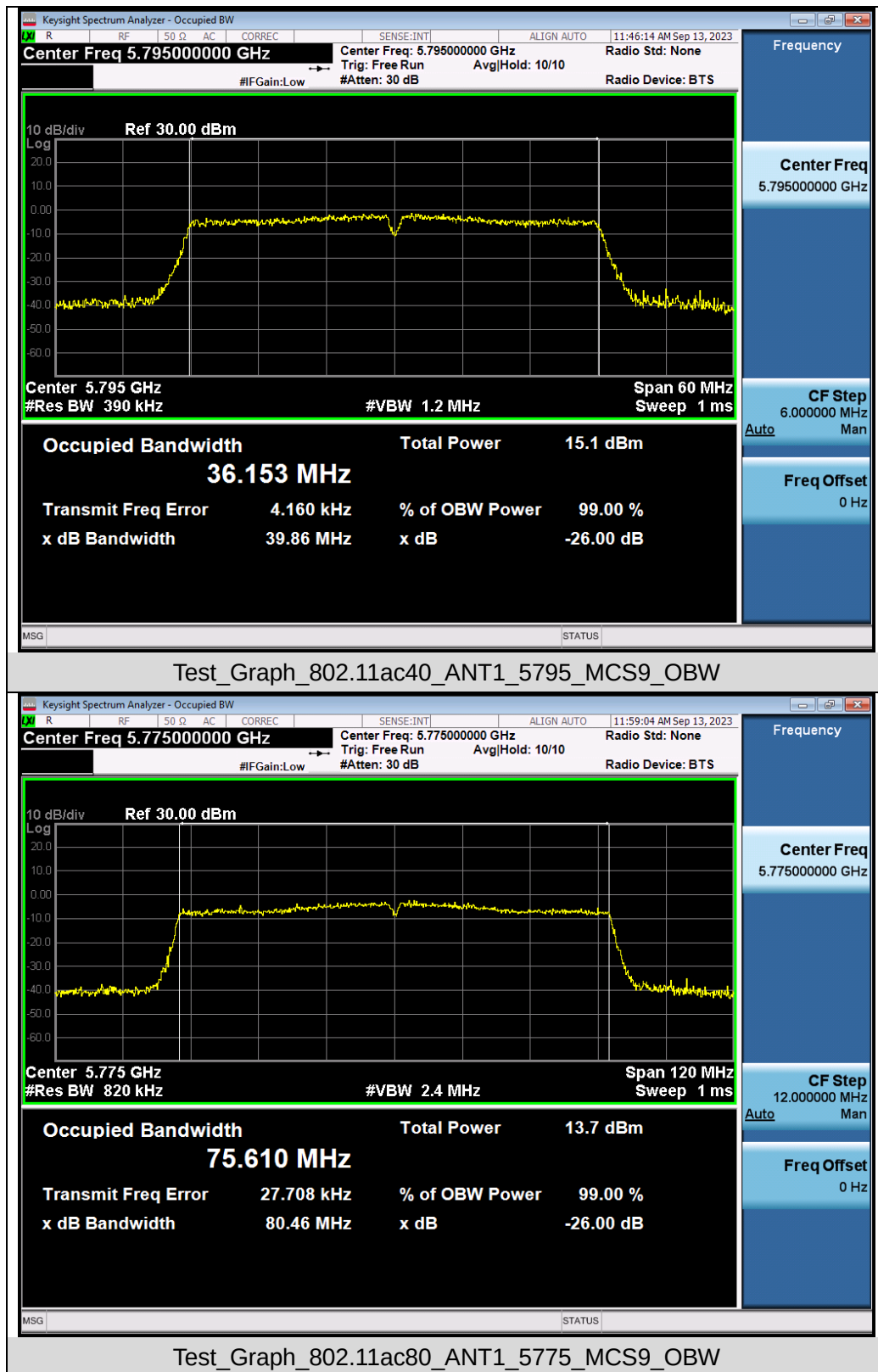
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

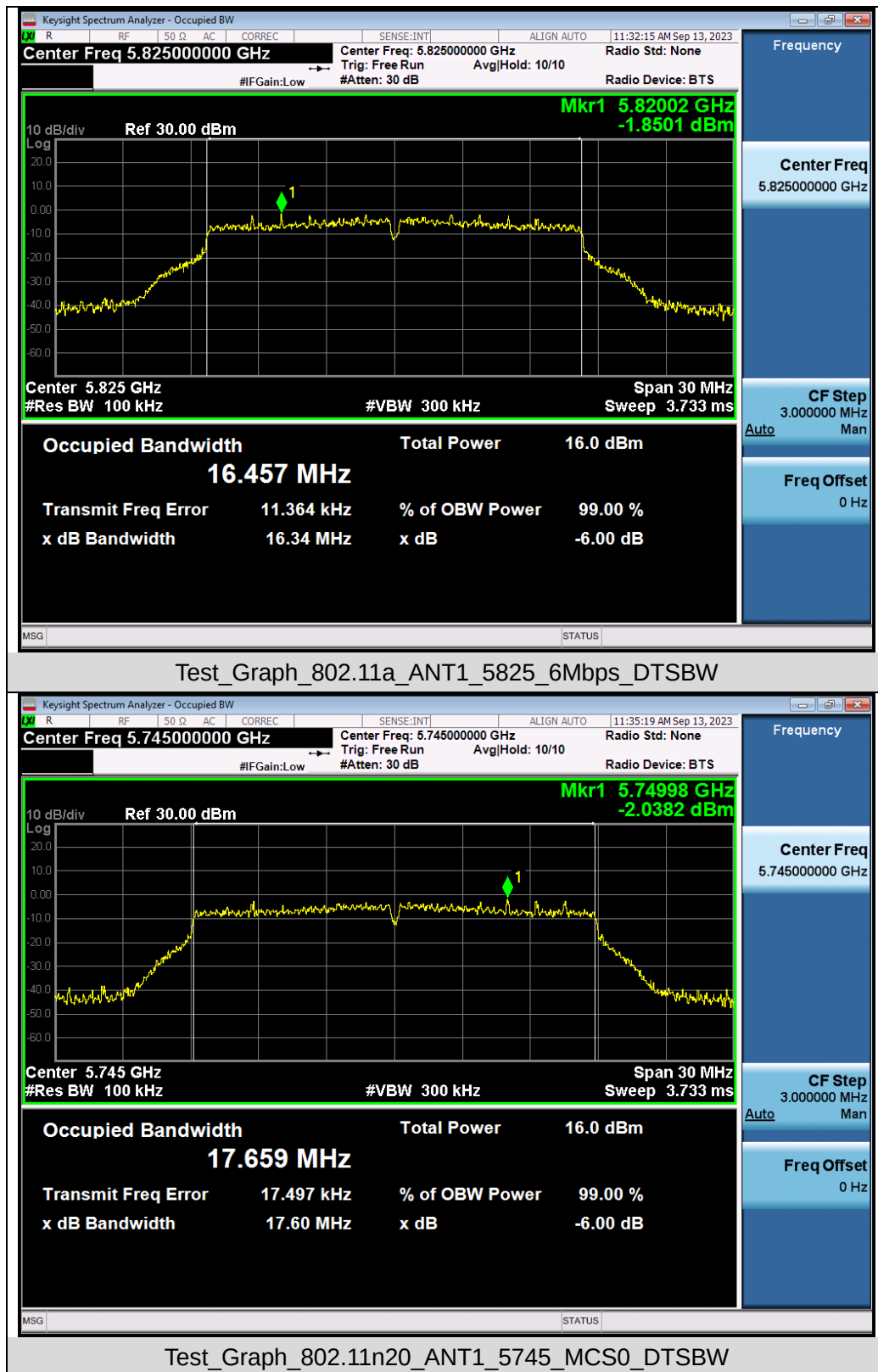


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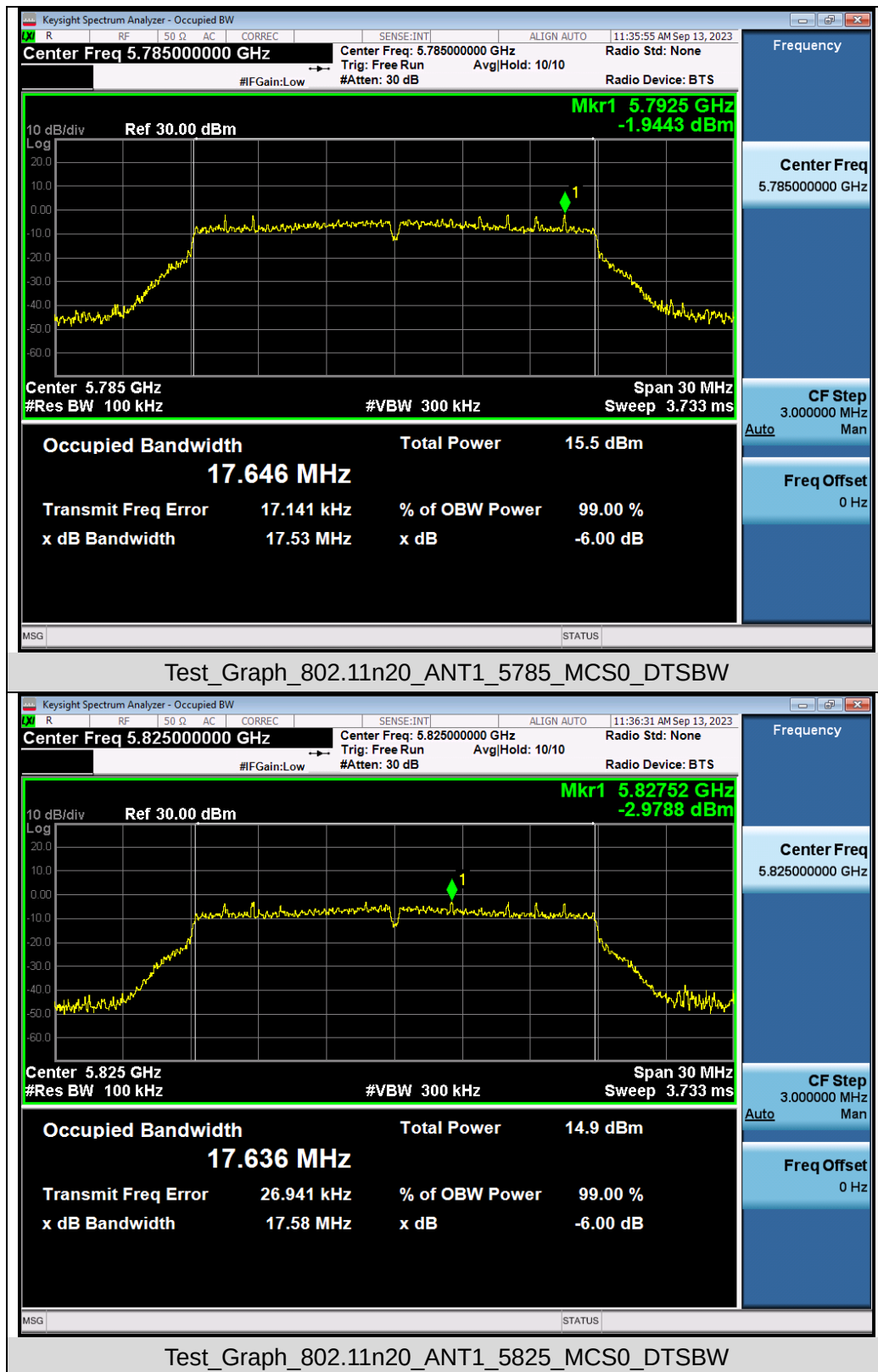


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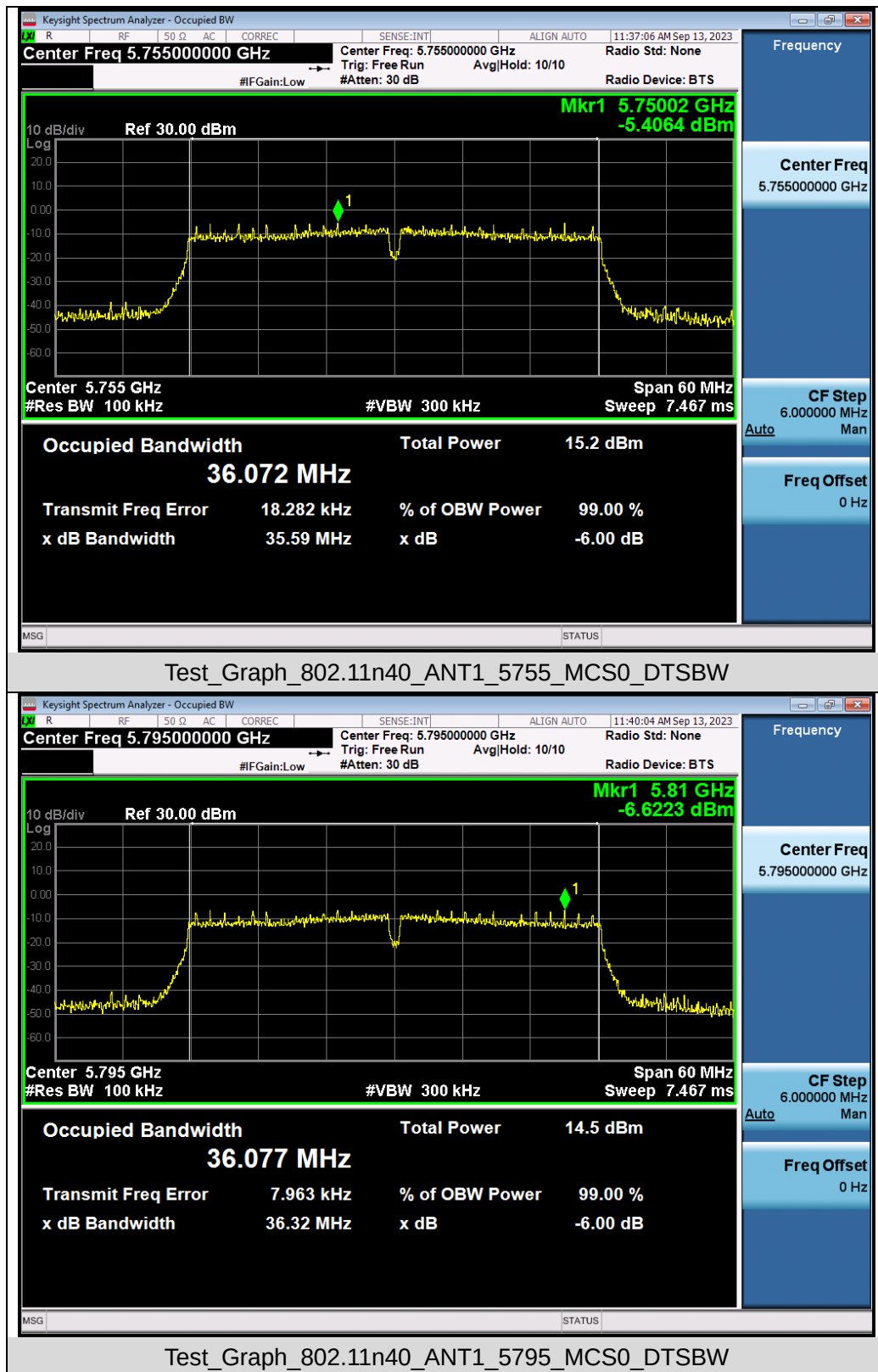
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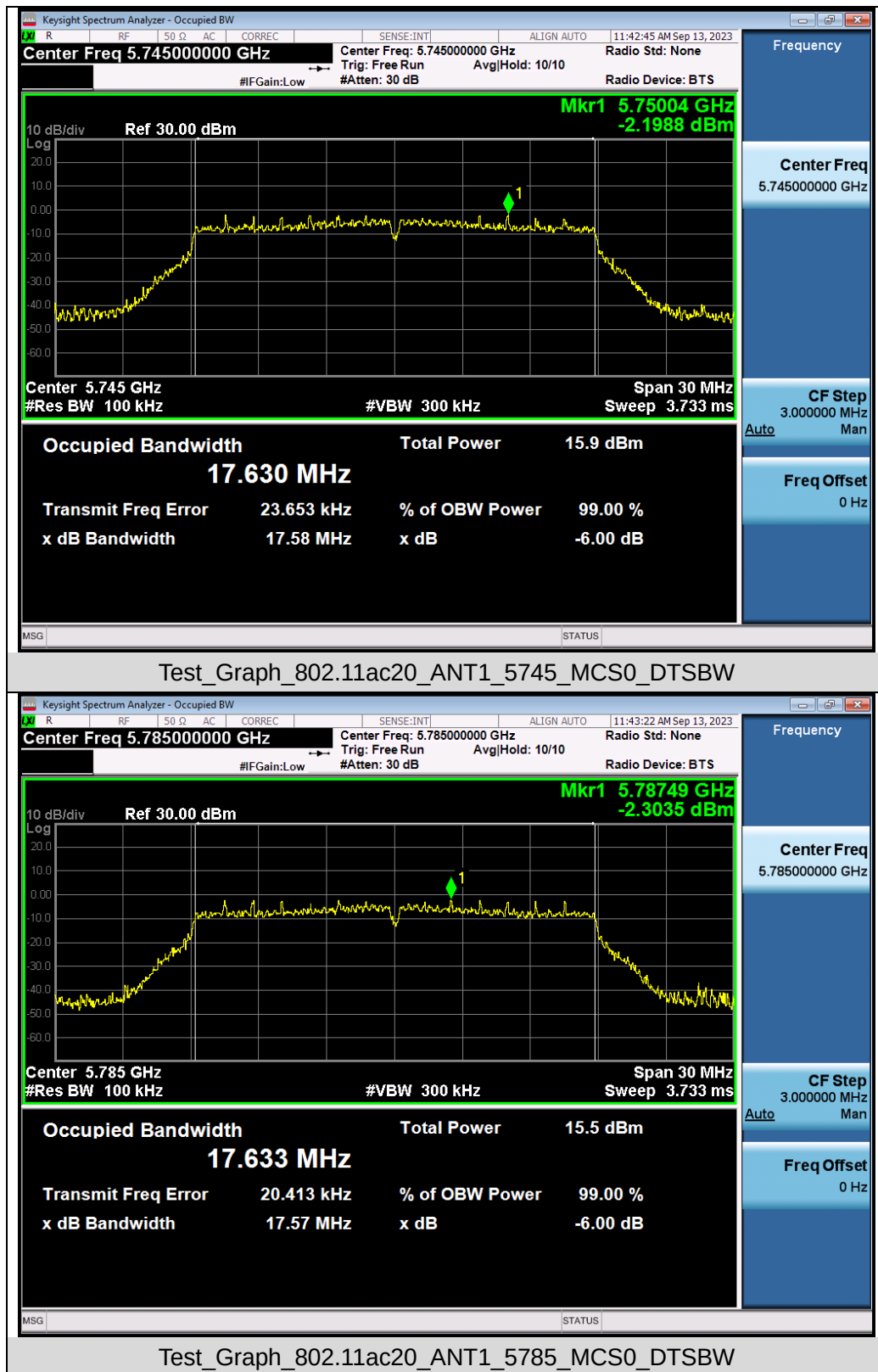
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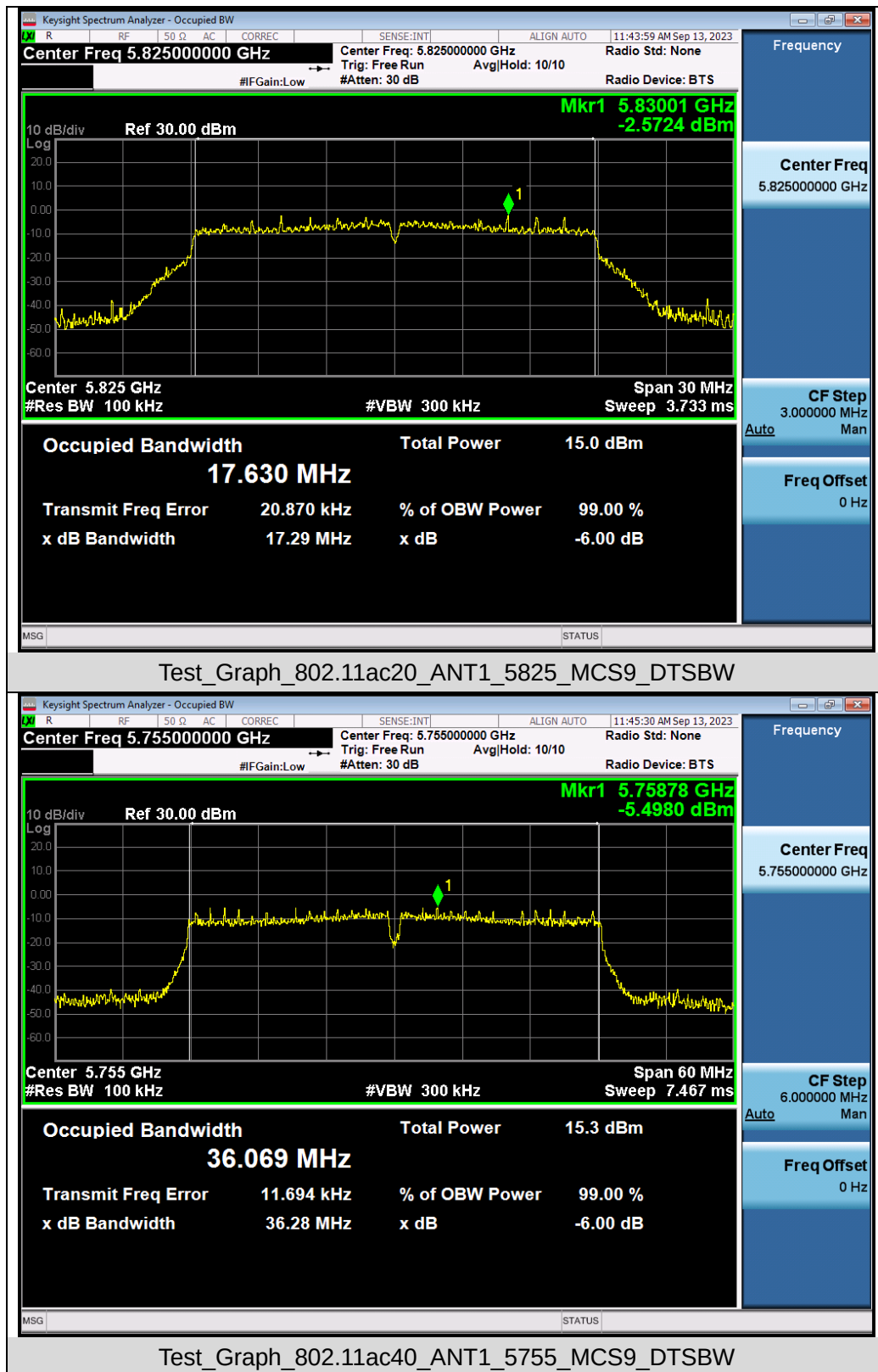
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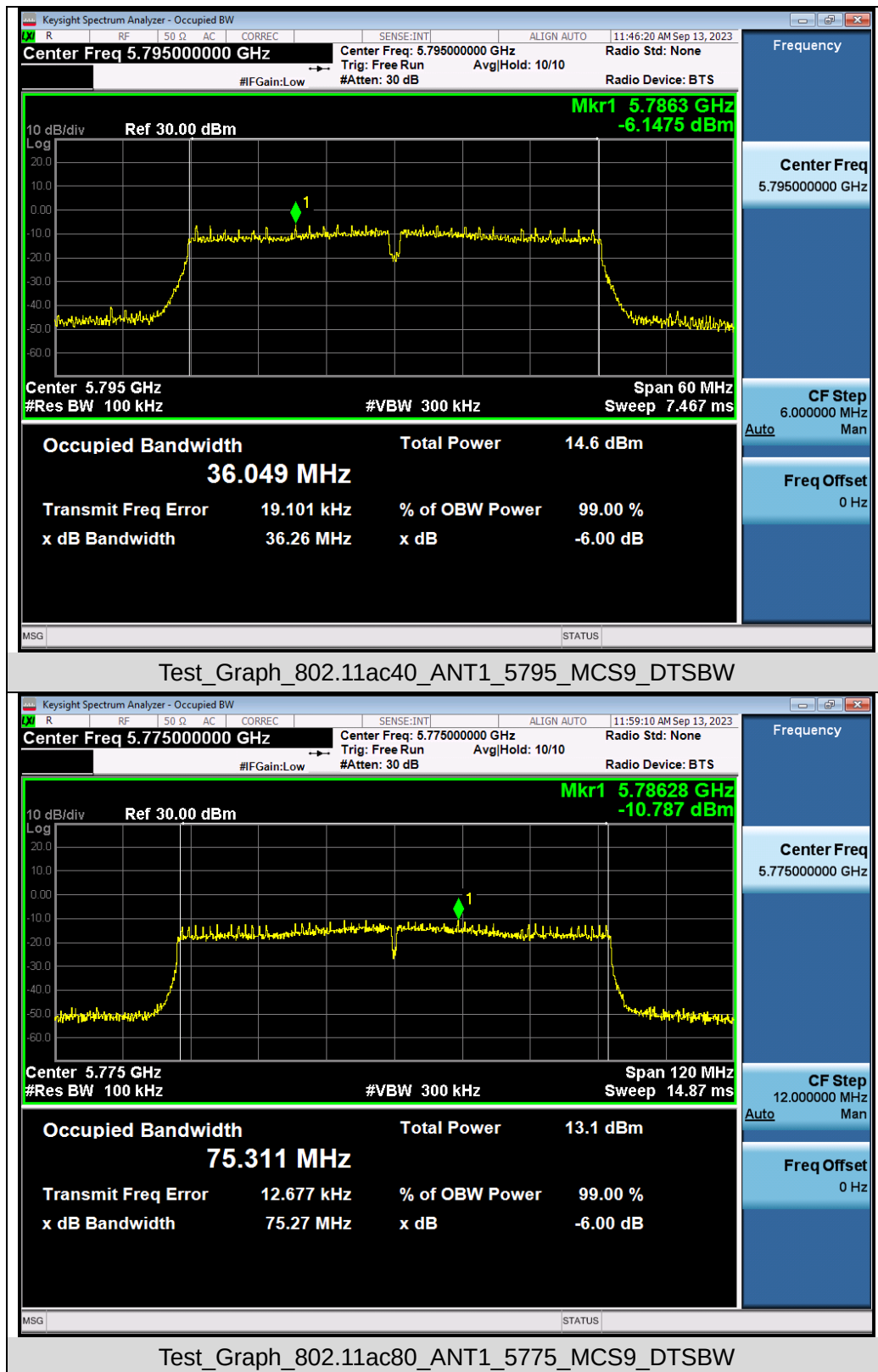


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9. Power Spectral Density Measurement

9.1 Provisions Applicable

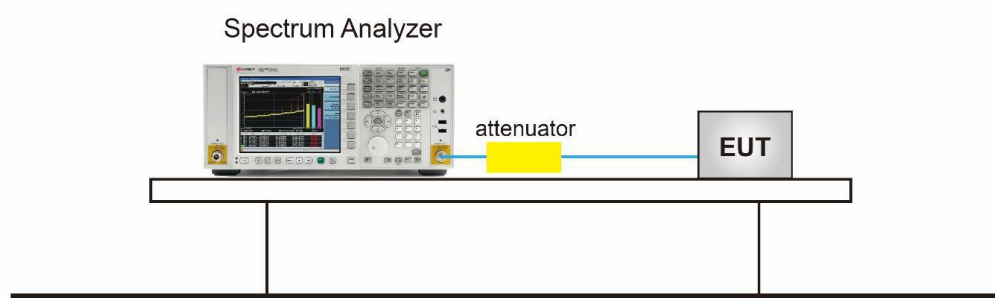
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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. 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	2.339	11	Pass
	5200	2.493	11	Pass
	5240	2.679	11	Pass
802.11n20	5180	0.459	11	Pass
	5200	0.595	11	Pass
	5240	0.899	11	Pass
802.11n40	5190	-2.518	11	Pass
	5230	-2.485	11	Pass
802.11ac20	5180	0.630	11	Pass
	5200	0.823	11	Pass
	5240	1.105	11	Pass
802.11ac40	5190	-2.202	11	Pass
	5230	-2.059	11	Pass
802.11ac80	5210	-5.562	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	2.284	11	Pass
	5300	2.535	11	Pass
	5320	2.546	11	Pass
802.11n20	5260	1.189	11	Pass
	5300	1.333	11	Pass
	5320	1.463	11	Pass
802.11n40	5270	-2.348	11	Pass
	5310	-2.057	11	Pass
802.11ac20	5260	1.145	11	Pass
	5300	1.343	11	Pass
	5320	1.517	11	Pass
802.11ac40	5270	-2.176	11	Pass
	5310	-1.816	11	Pass
802.11ac80	5290	-5.147	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	2.810	11	Pass
	5600	3.005	11	Pass
	5700	2.583	11	Pass
802.11n20	5500	1.447	11	Pass
	5600	1.506	11	Pass
	5700	1.085	11	Pass
802.11n40	5510	-1.958	11	Pass
	5590	-1.848	11	Pass
	5670	-1.969	11	Pass
802.11ac20	5500	1.395	11	Pass
	5600	1.432	11	Pass
	5700	1.252	11	Pass
802.11ac40	5510	-1.550	11	Pass
	5590	-1.843	11	Pass
	5670	-1.901	11	Pass
802.11ac80	5530	-5.247	11	Pass
	5610	-5.503	11	Pass

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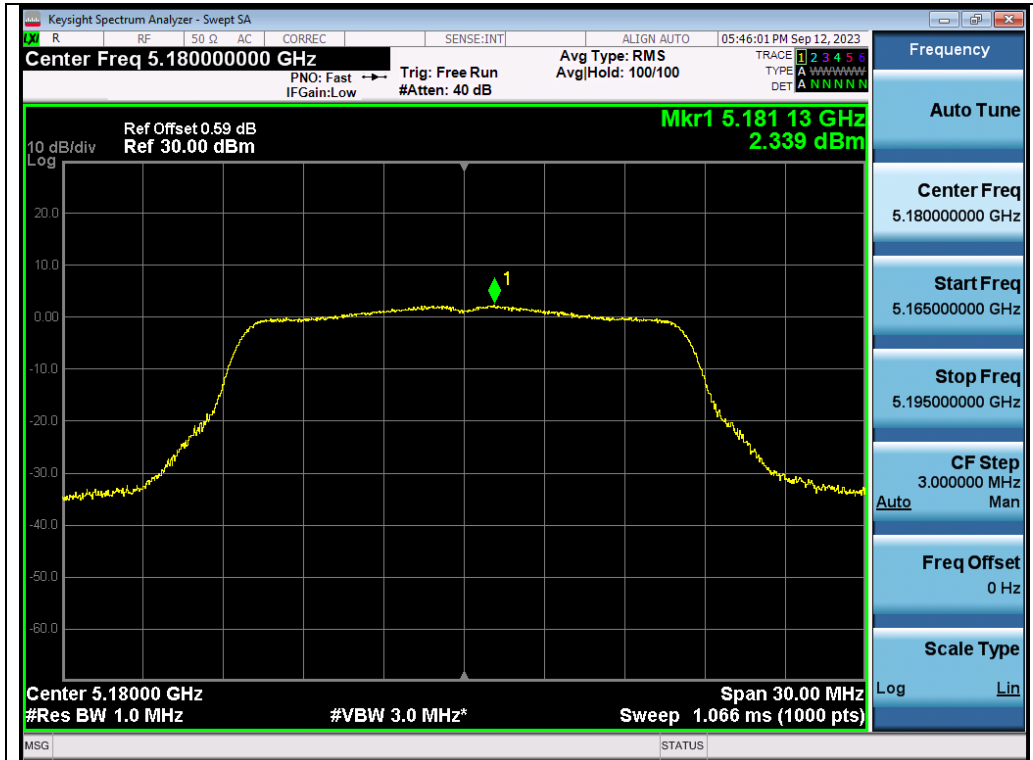
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.784	0.206	30	Pass
	5785	-6.928	0.062	30	Pass
	5825	-7.579	-0.589	30	Pass
802.11n20	5745	-8.281	-1.291	30	Pass
	5785	-8.769	-1.779	30	Pass
	5825	-9.312	-2.322	30	Pass
802.11n40	5755	-11.705	-4.715	30	Pass
	5795	-12.326	-5.336	30	Pass
802.11ac20	5745	-8.393	-1.403	30	Pass
	5785	-8.805	-1.815	30	Pass
	5825	-9.036	-2.046	30	Pass
802.11ac40	5755	-11.883	-4.893	30	Pass
	5795	-12.008	-5.018	30	Pass
802.11ac80	5775	-15.400	-8.410	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

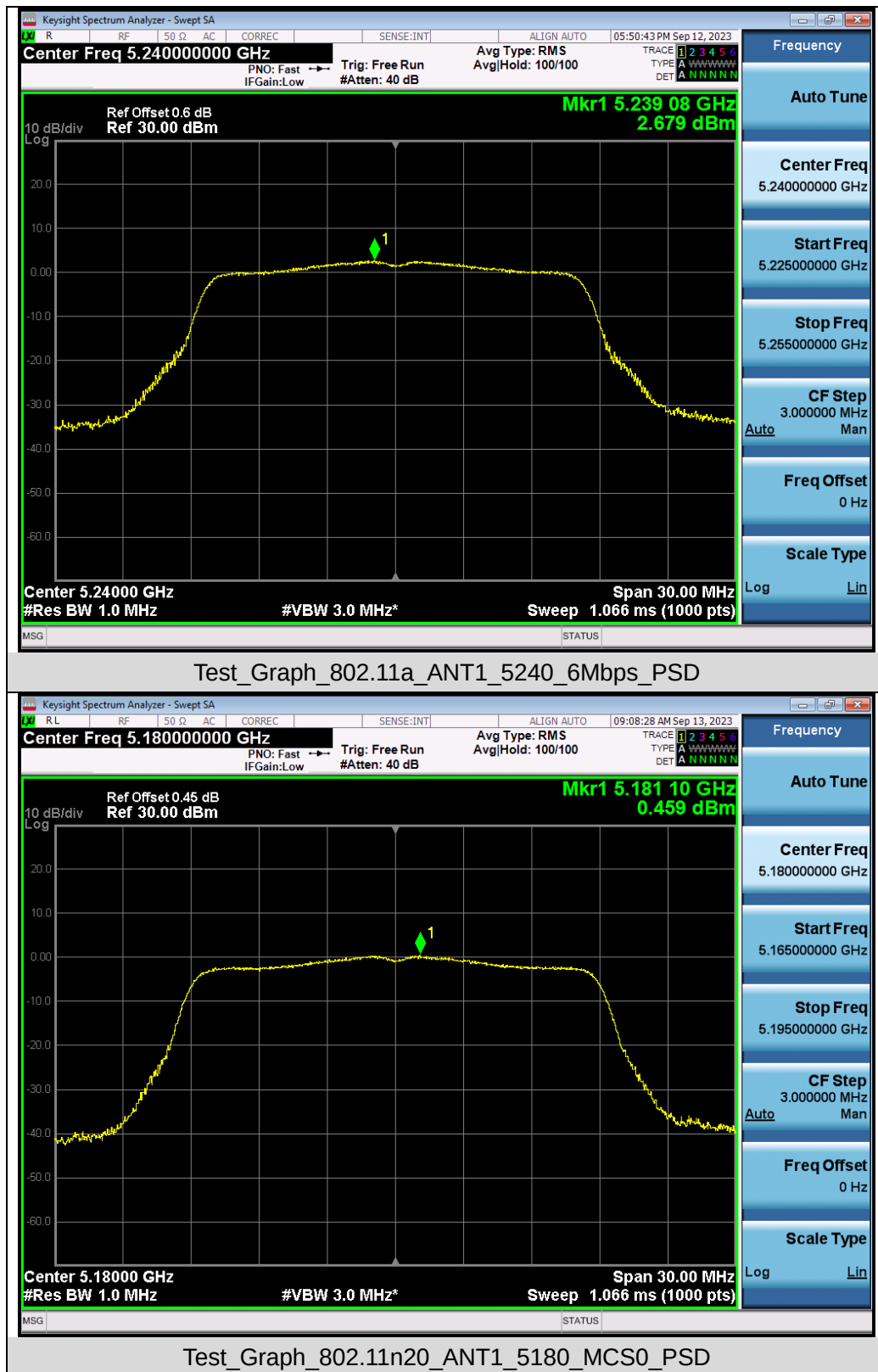


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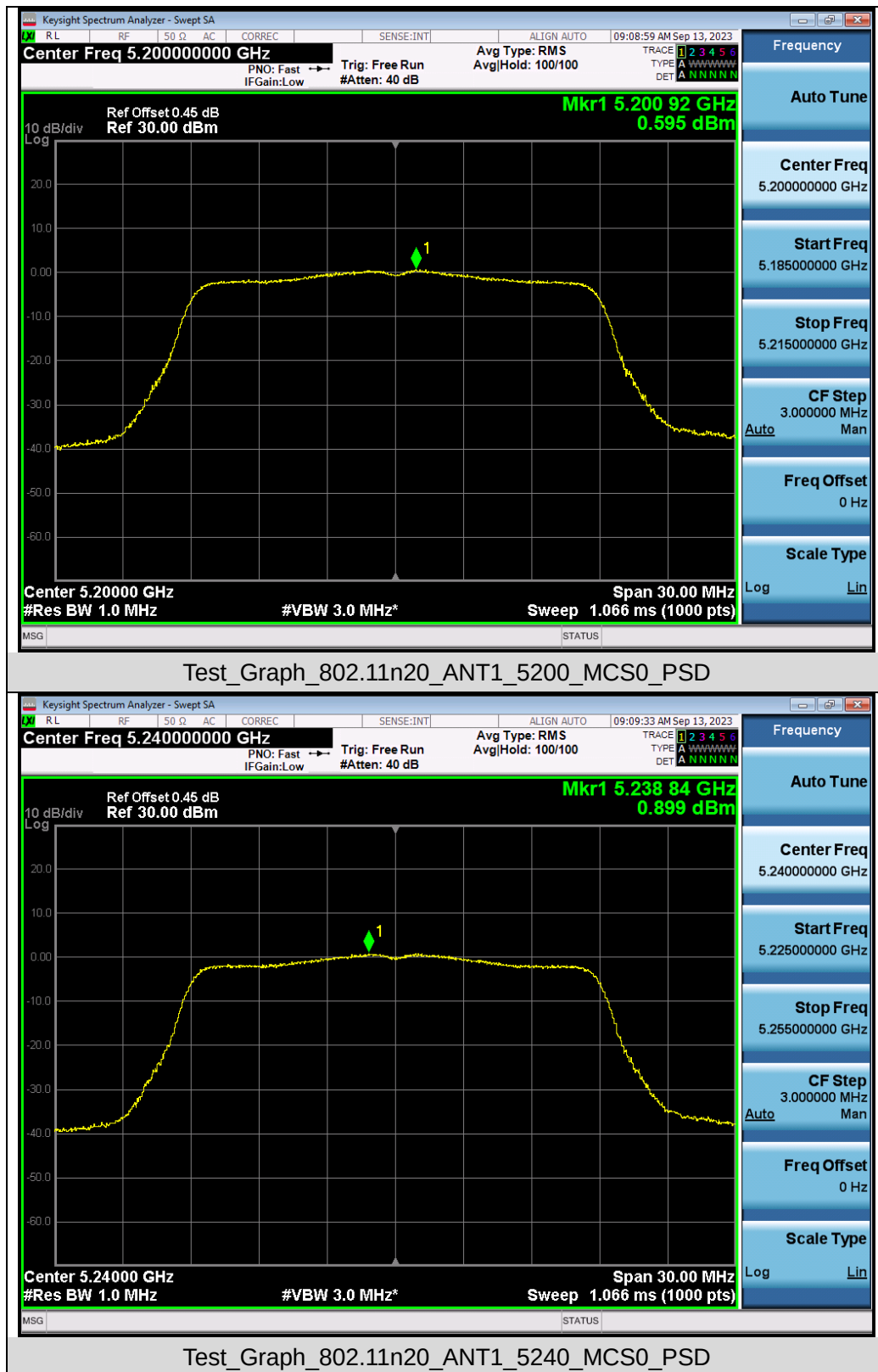


Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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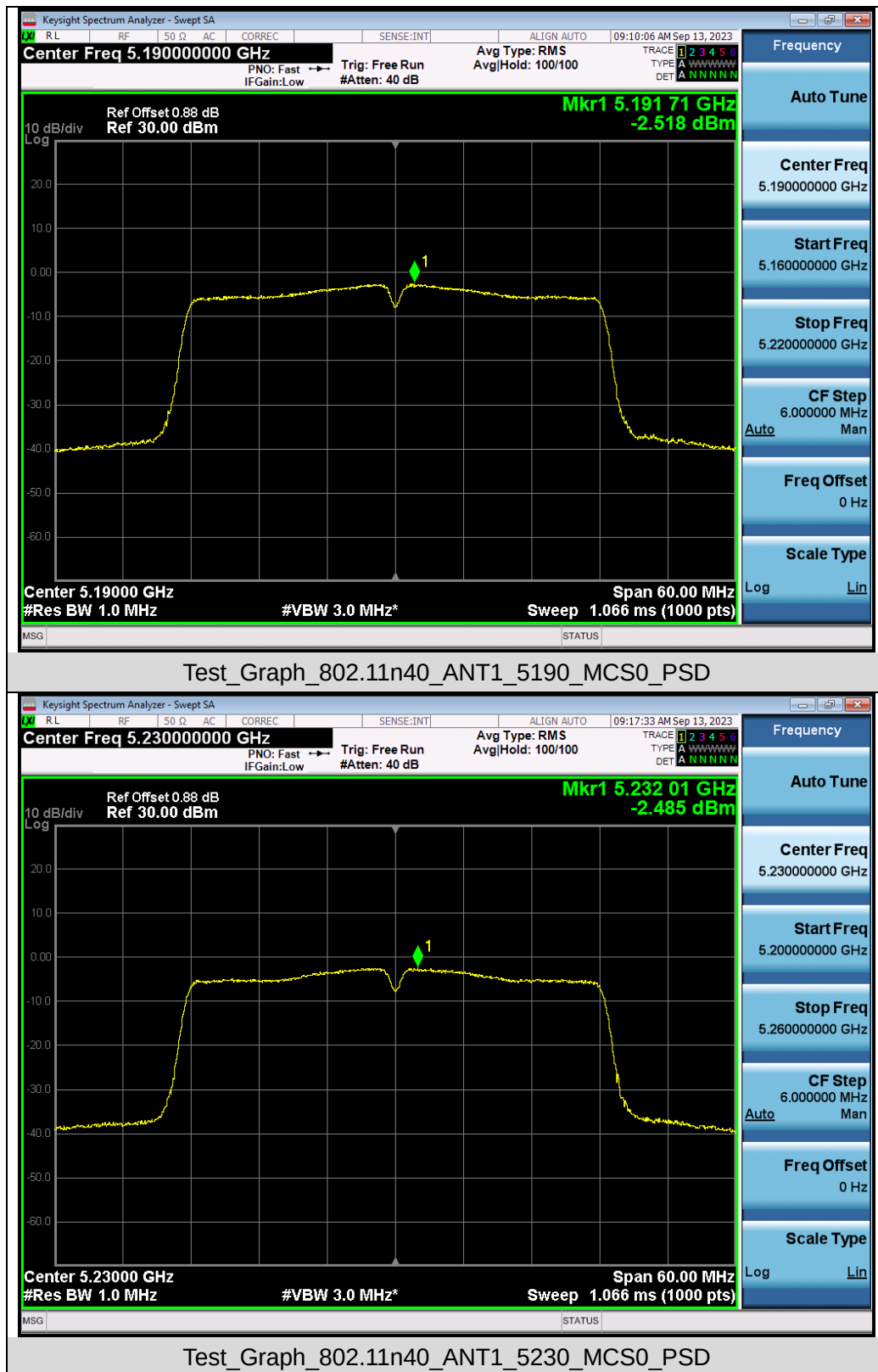


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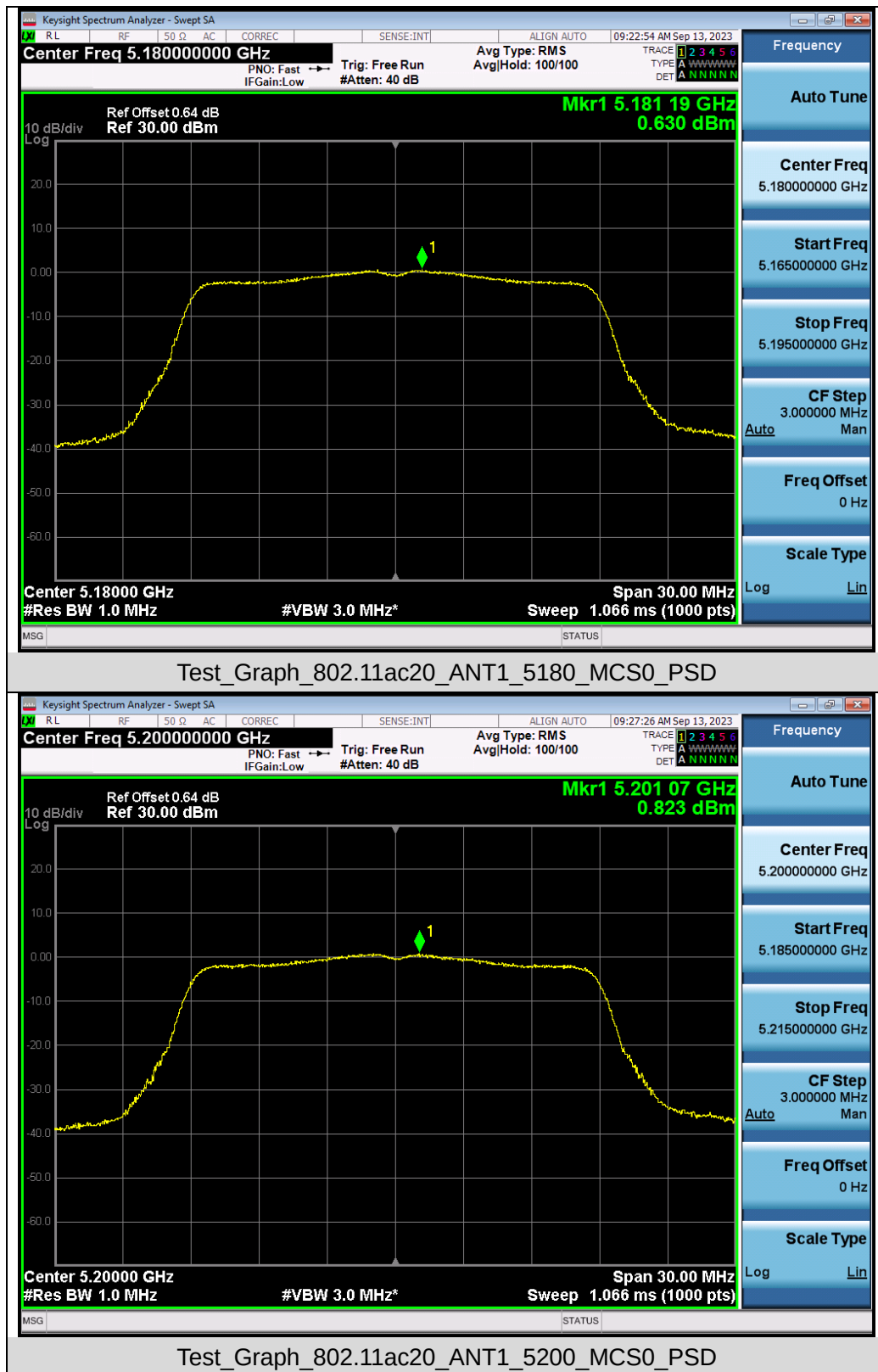
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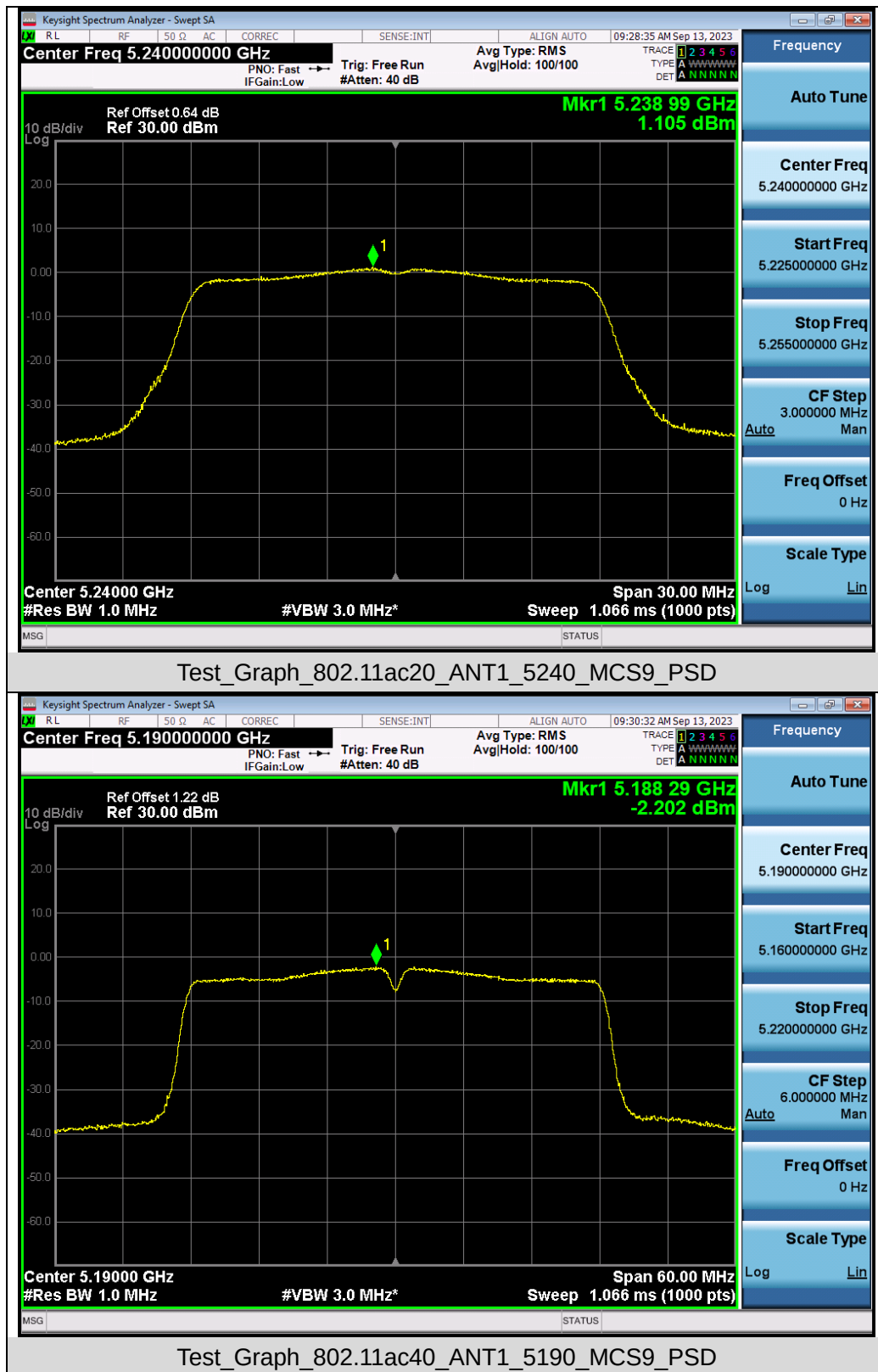
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

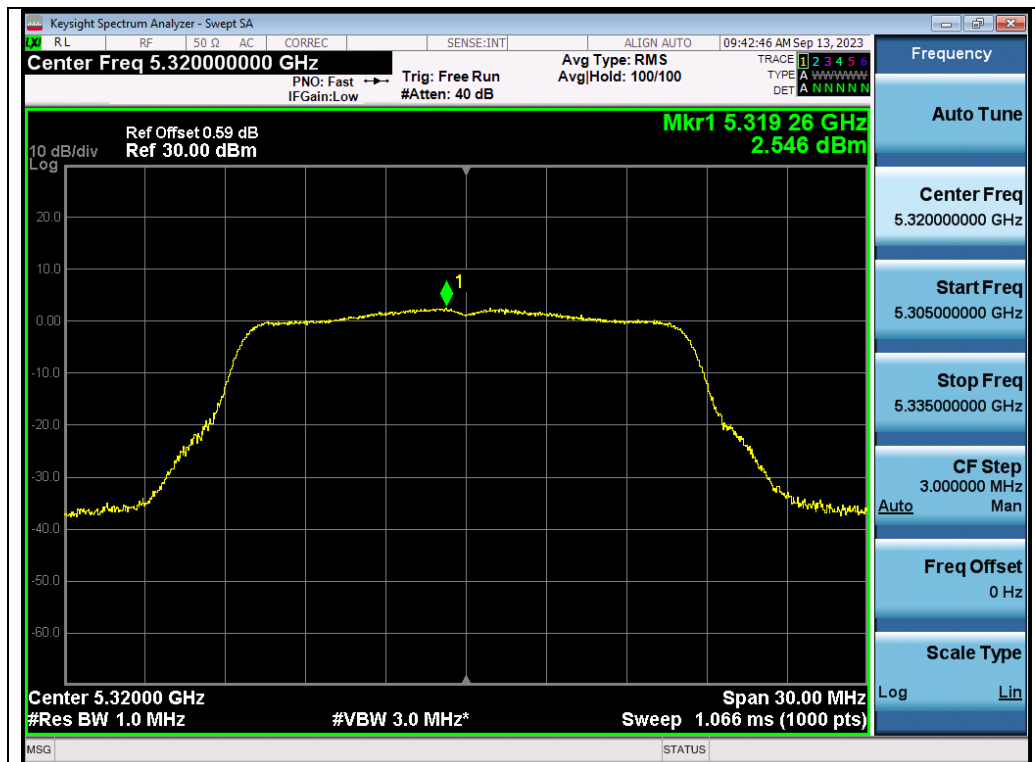


Test_Graph_802.11a_ANT1_5260_6Mbps_PSD



Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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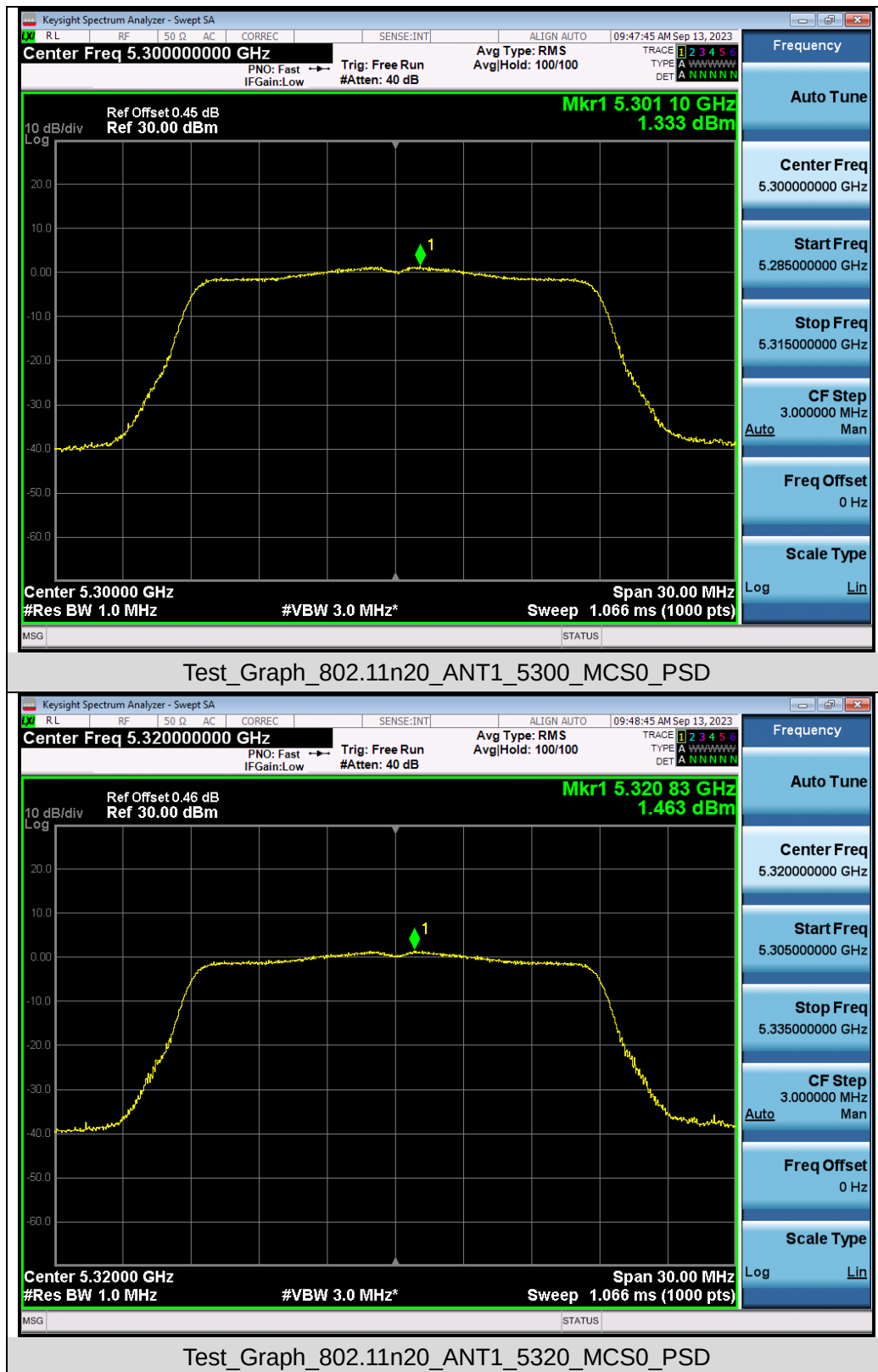


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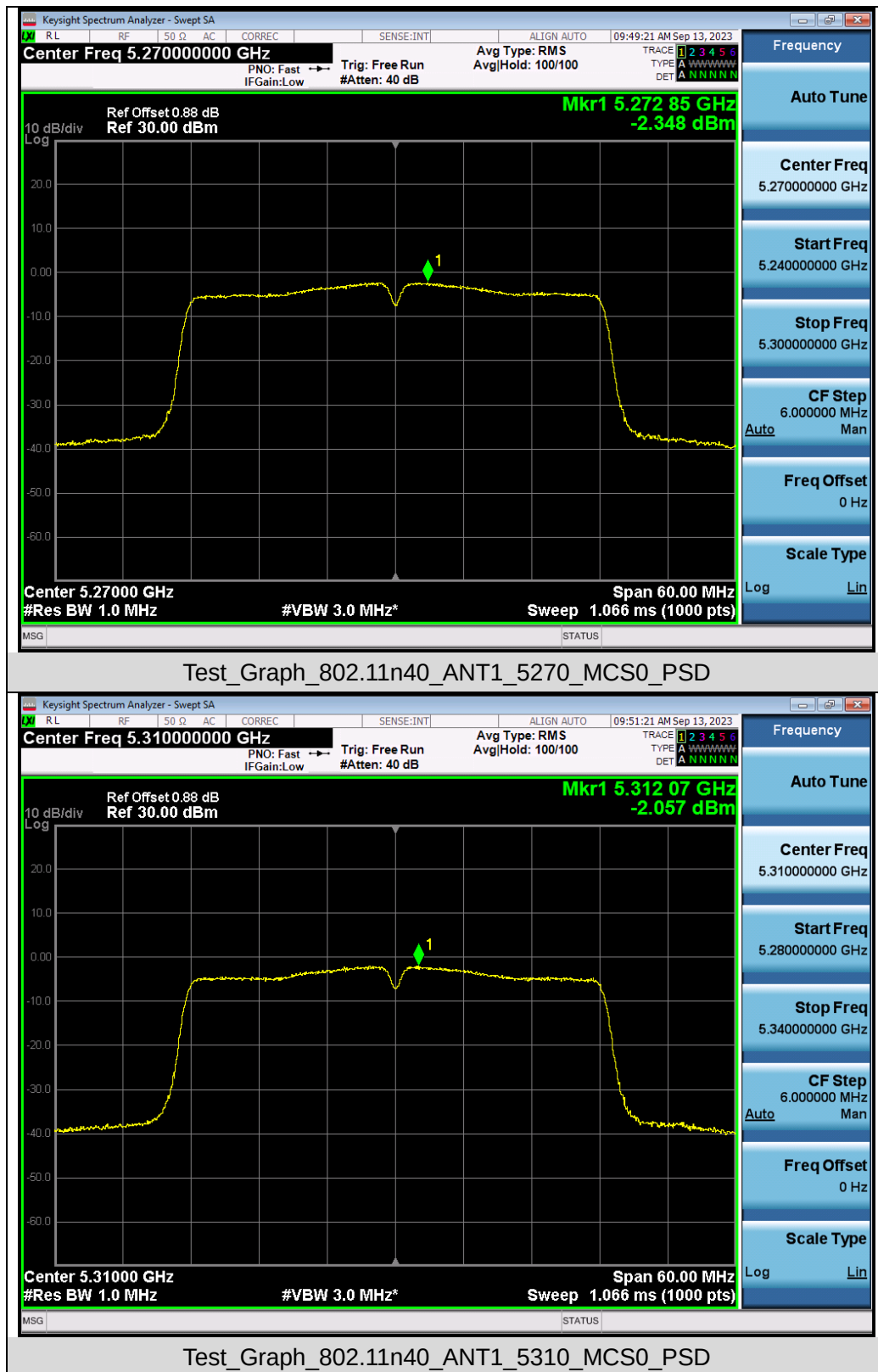
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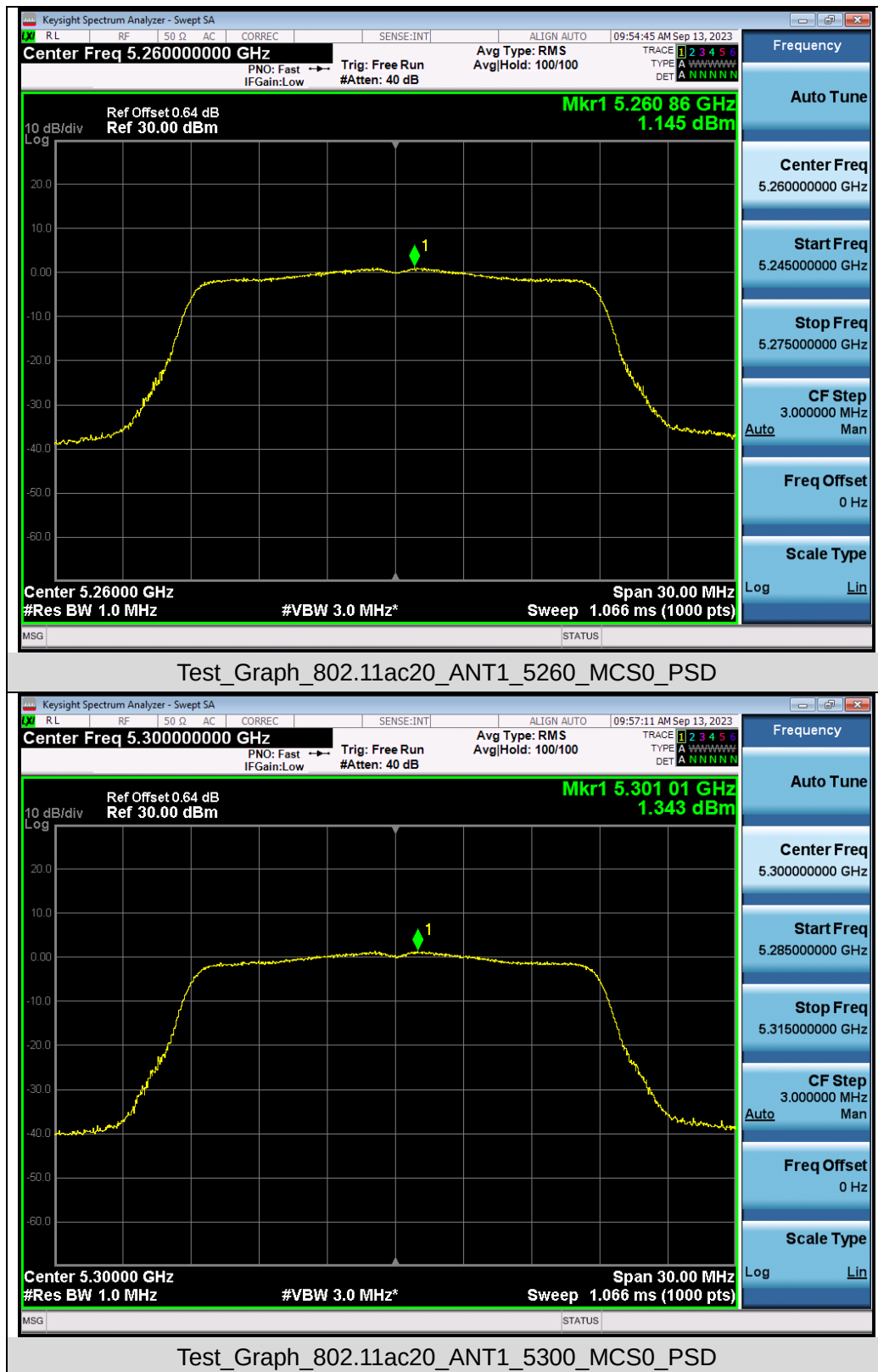
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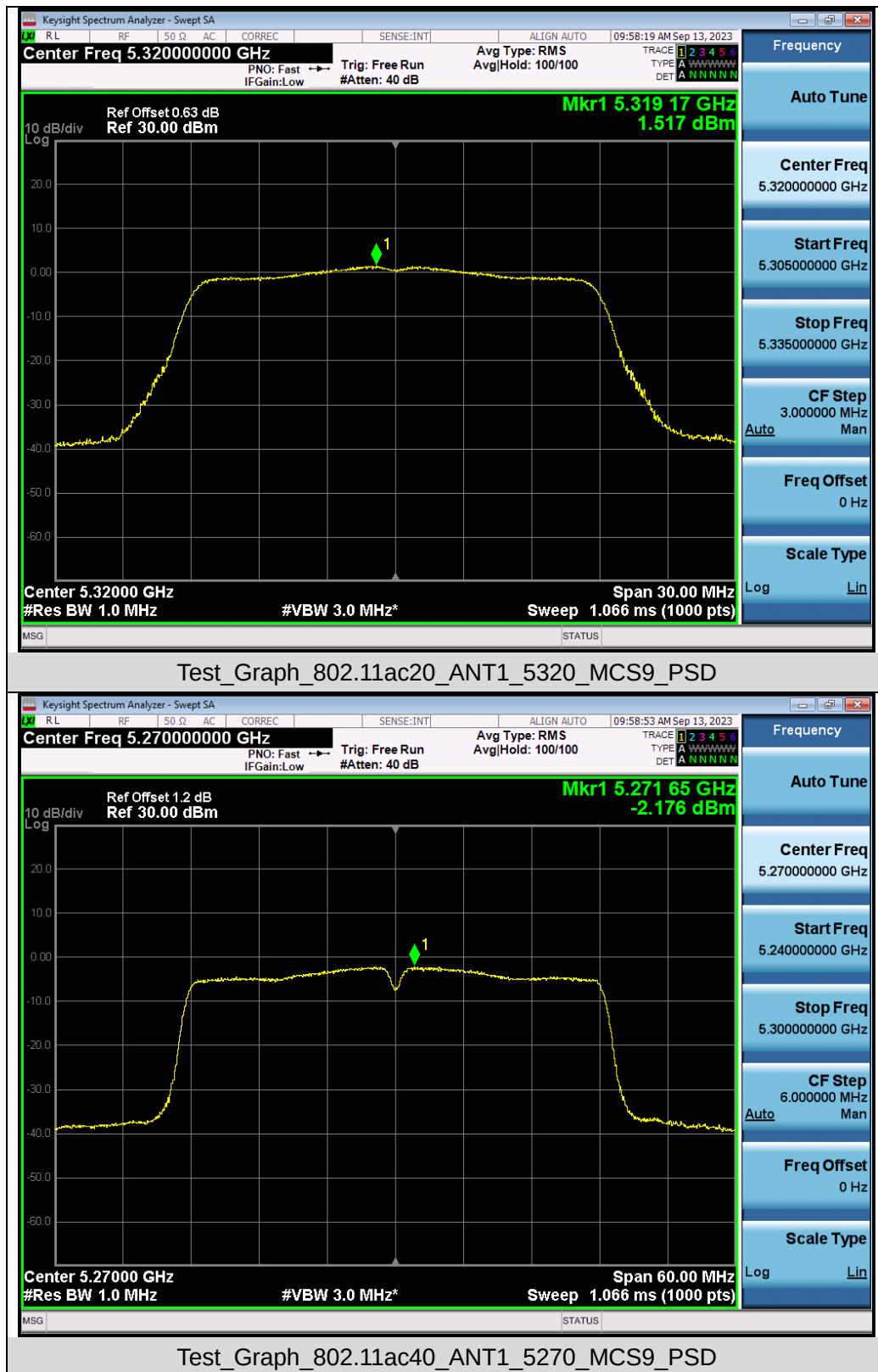


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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz



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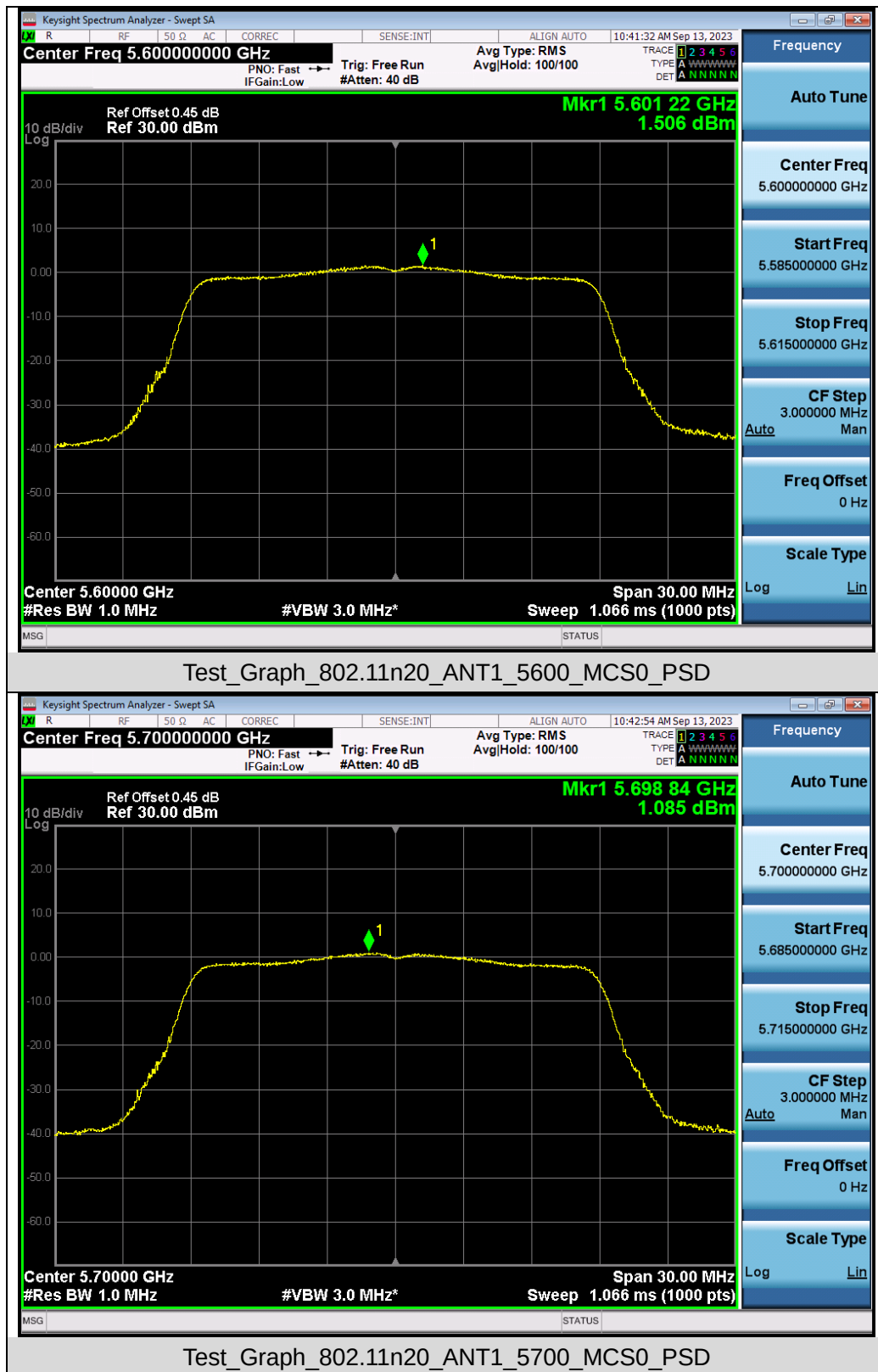


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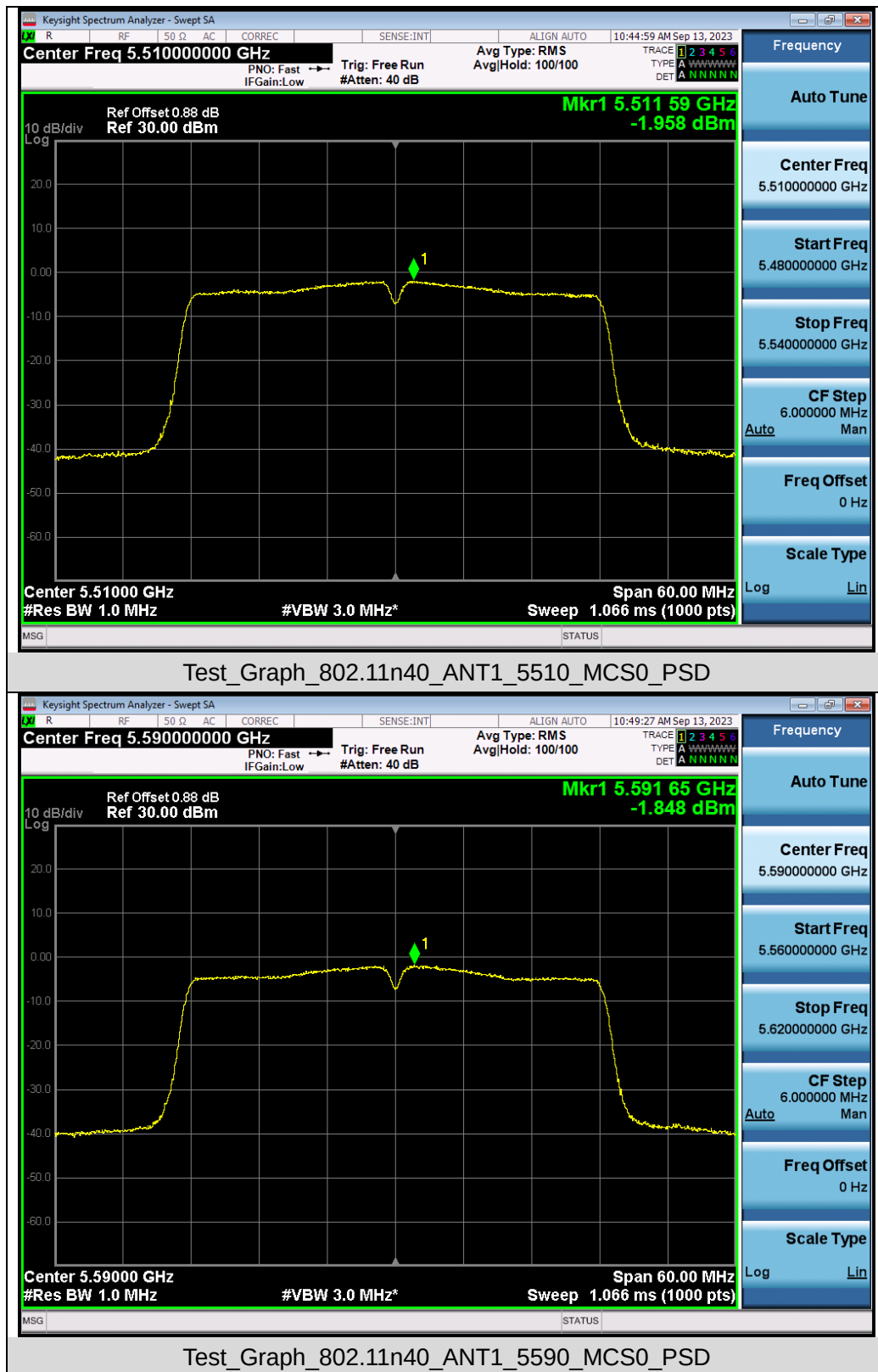
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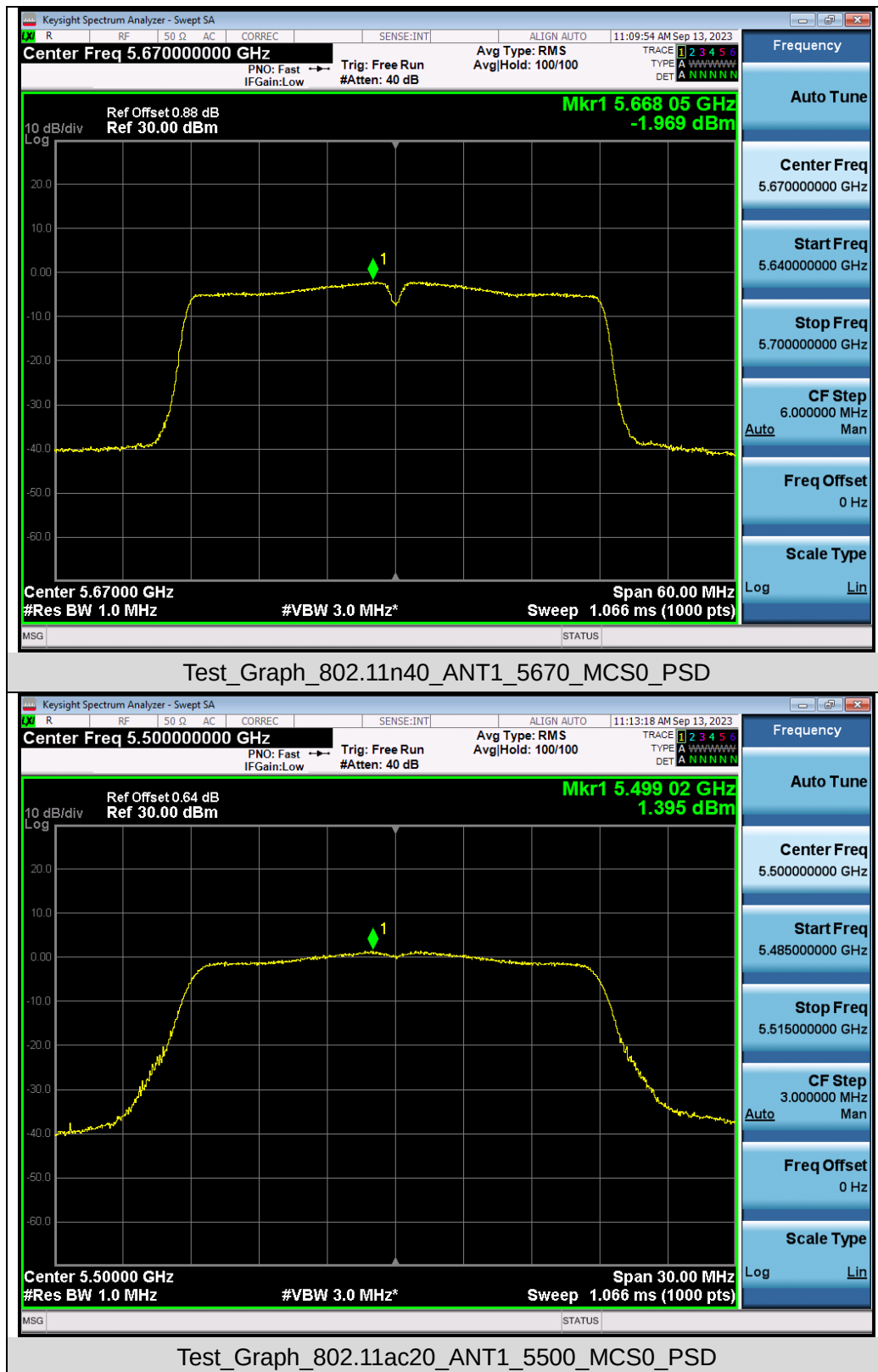
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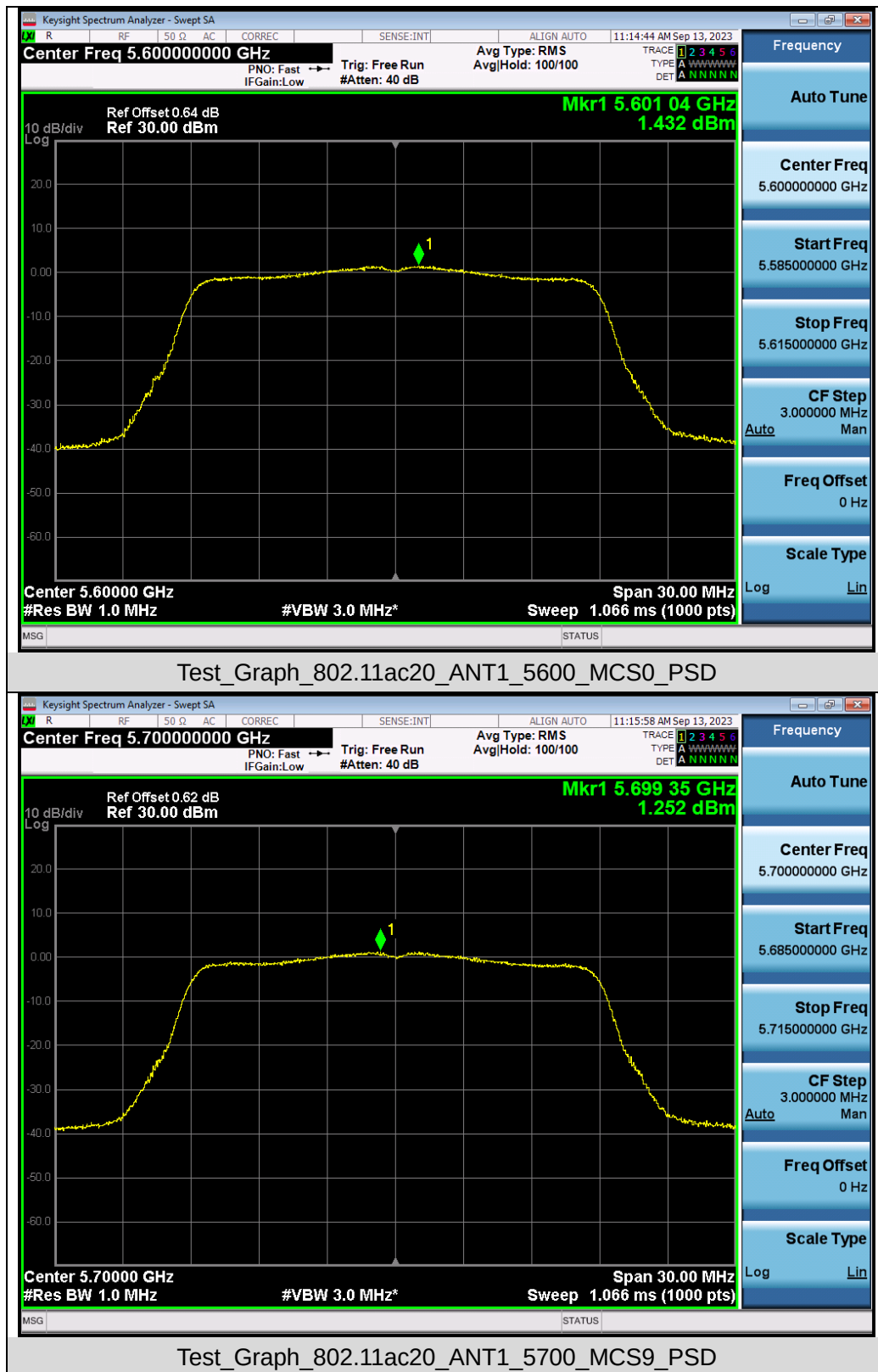


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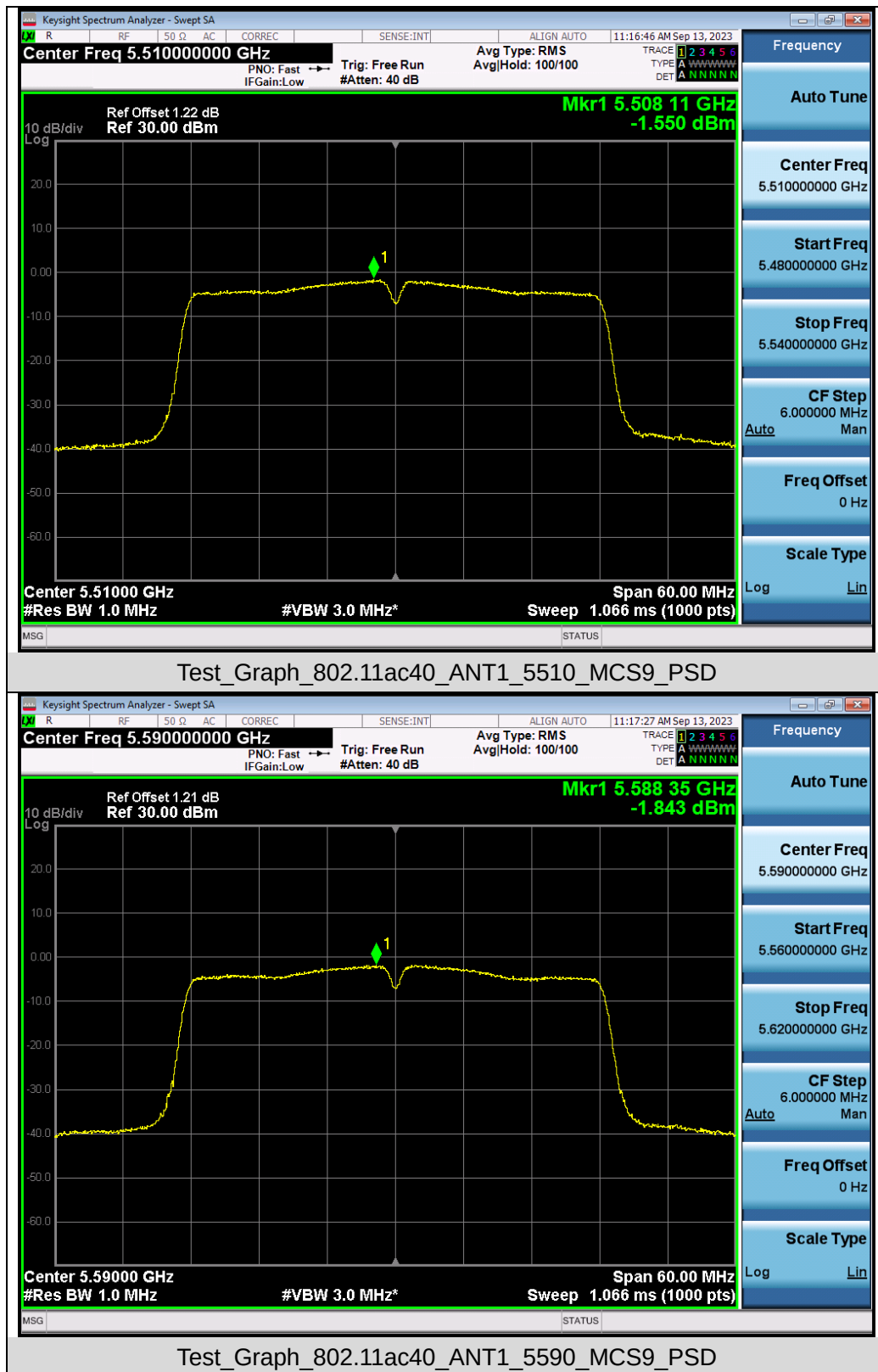


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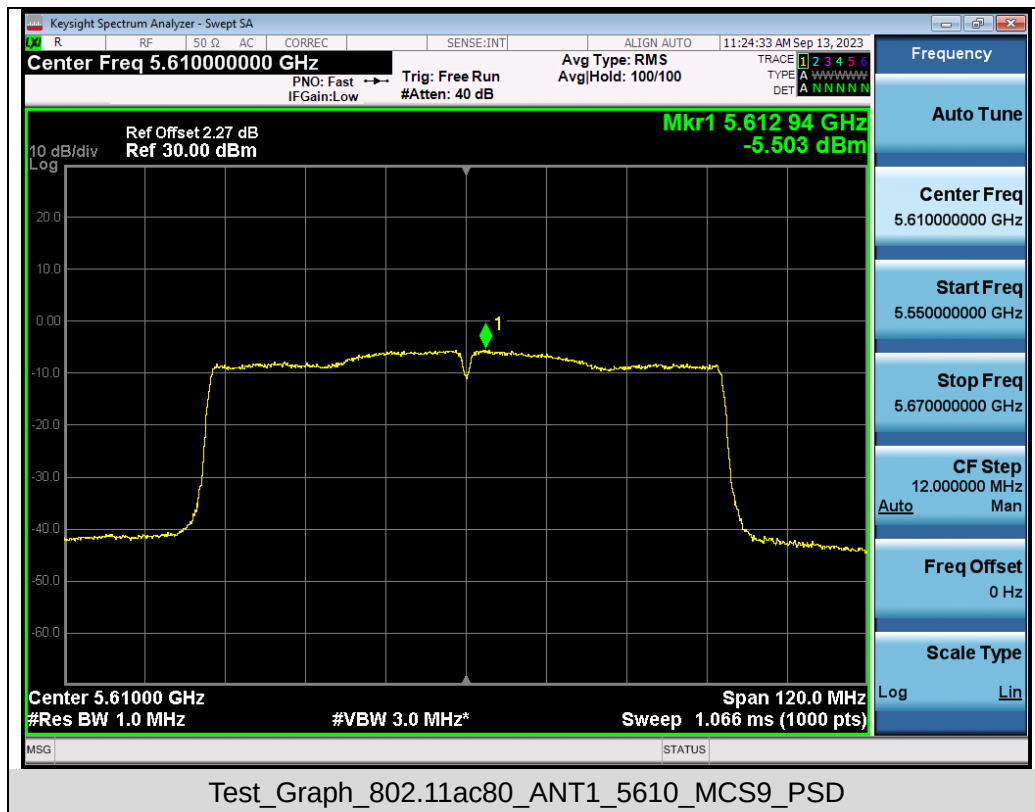


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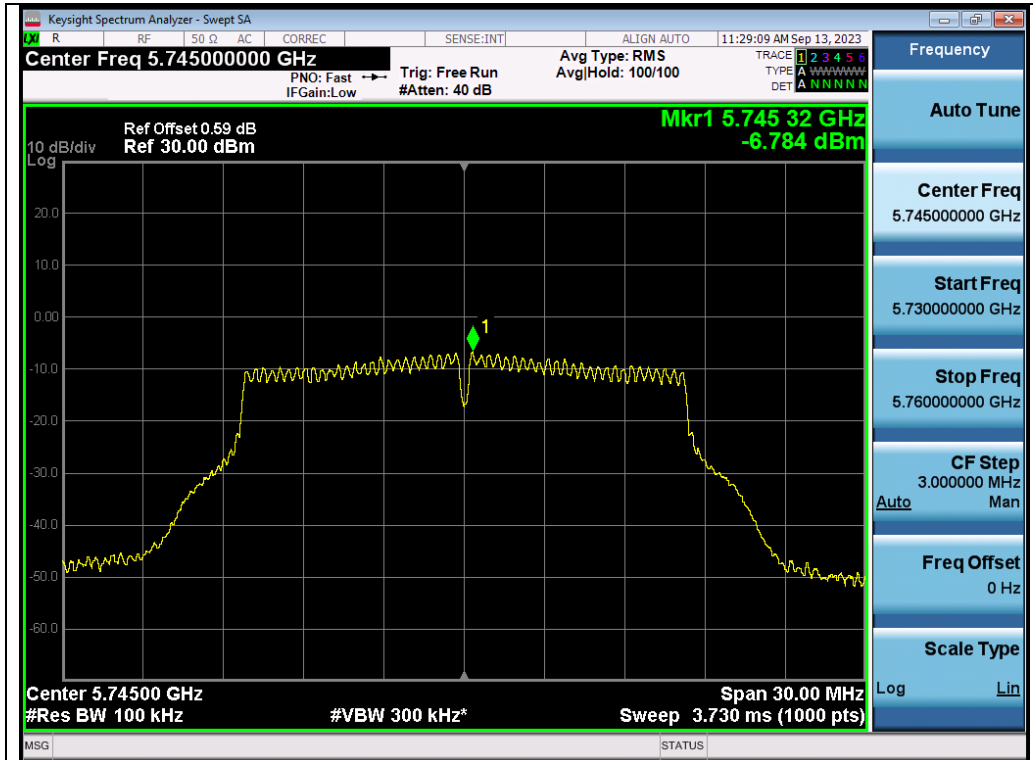
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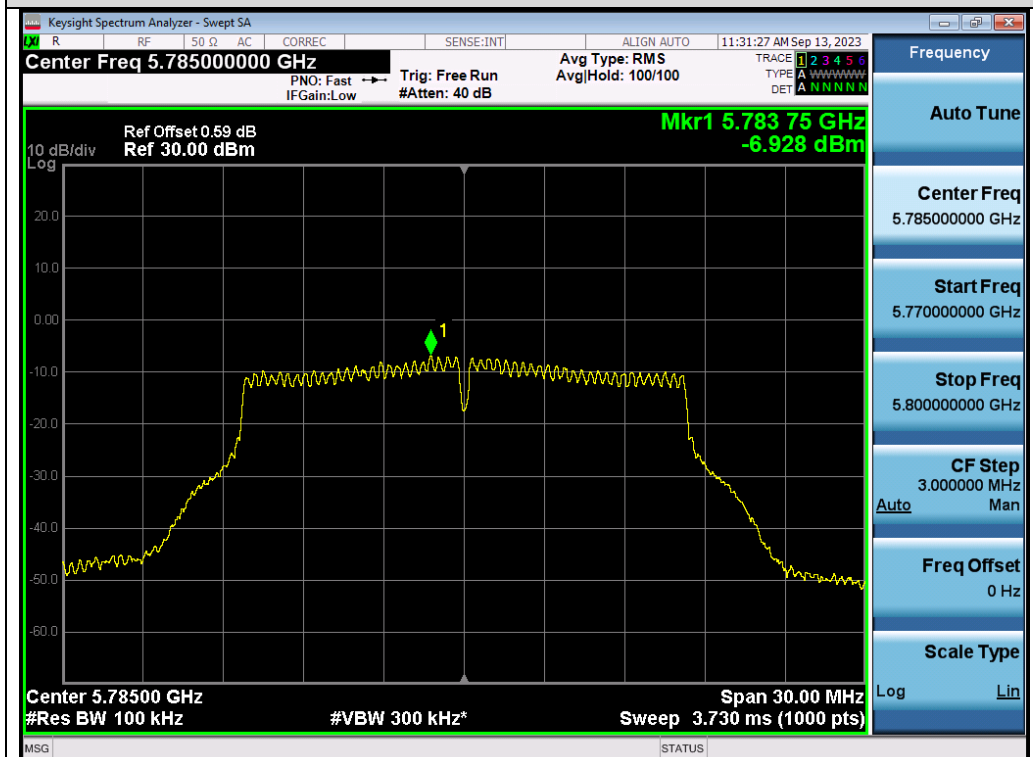
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

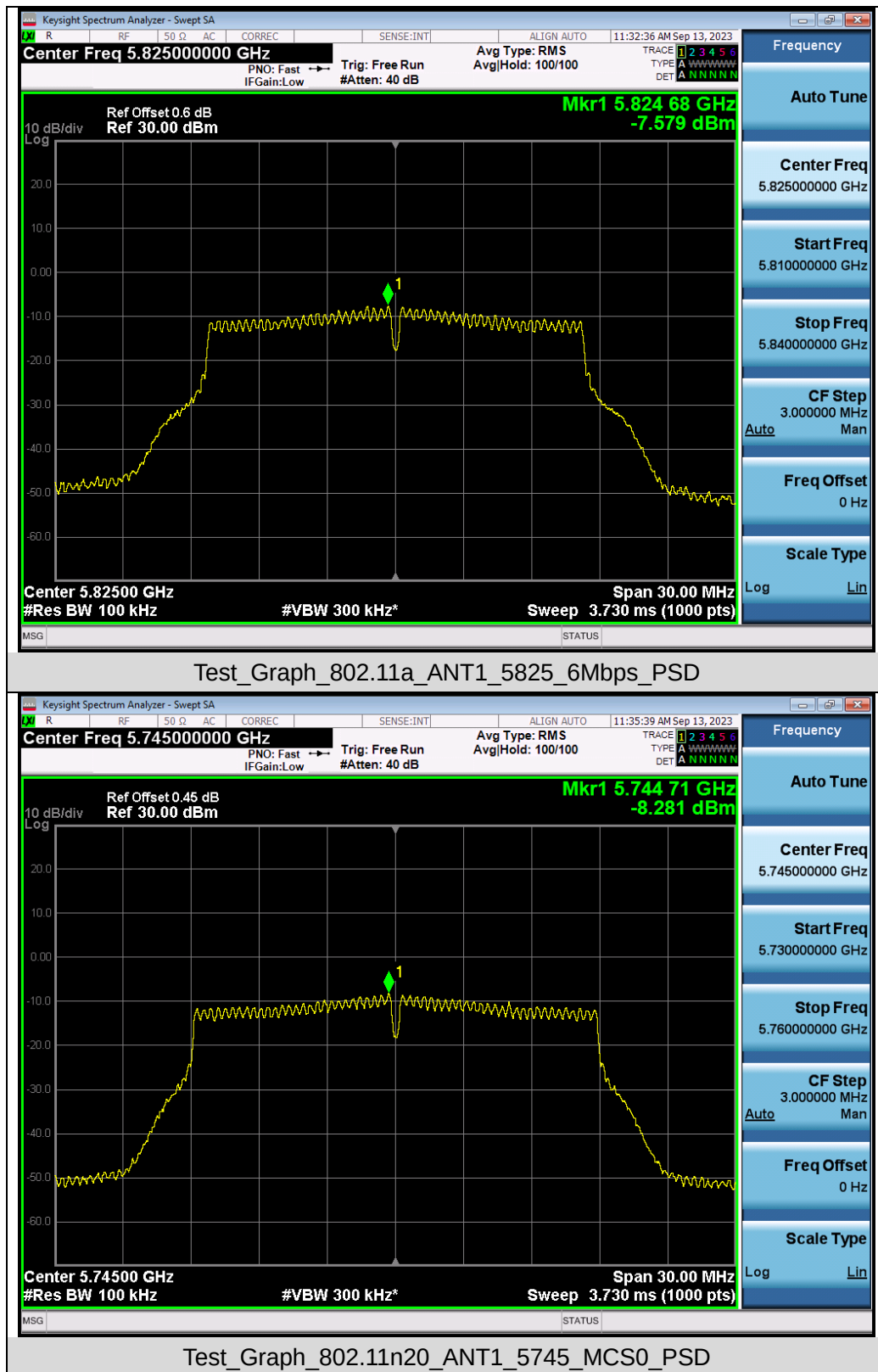


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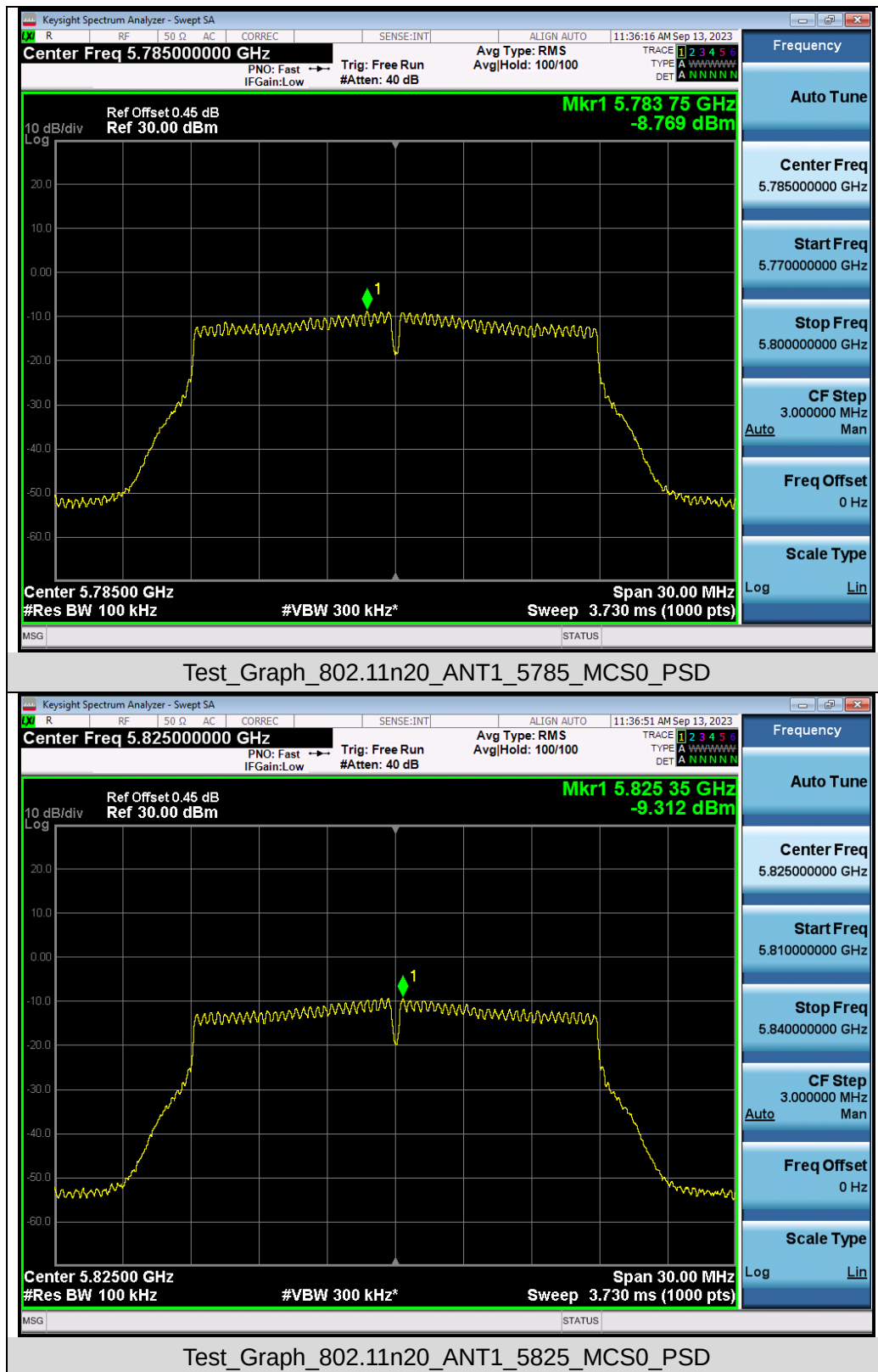


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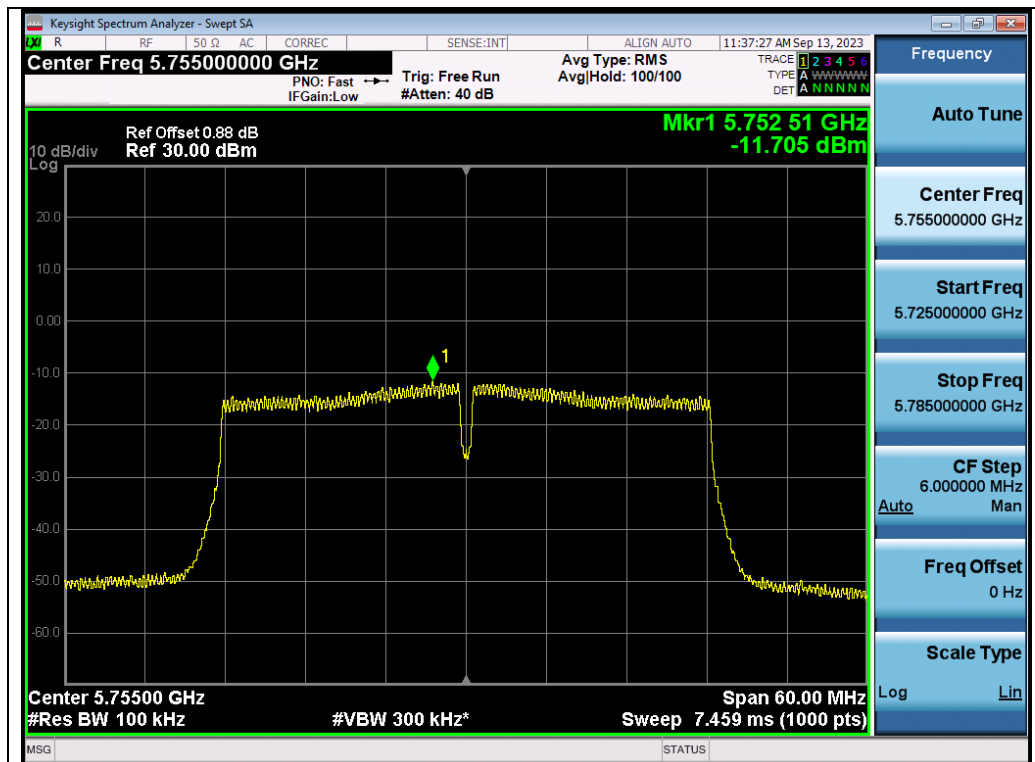
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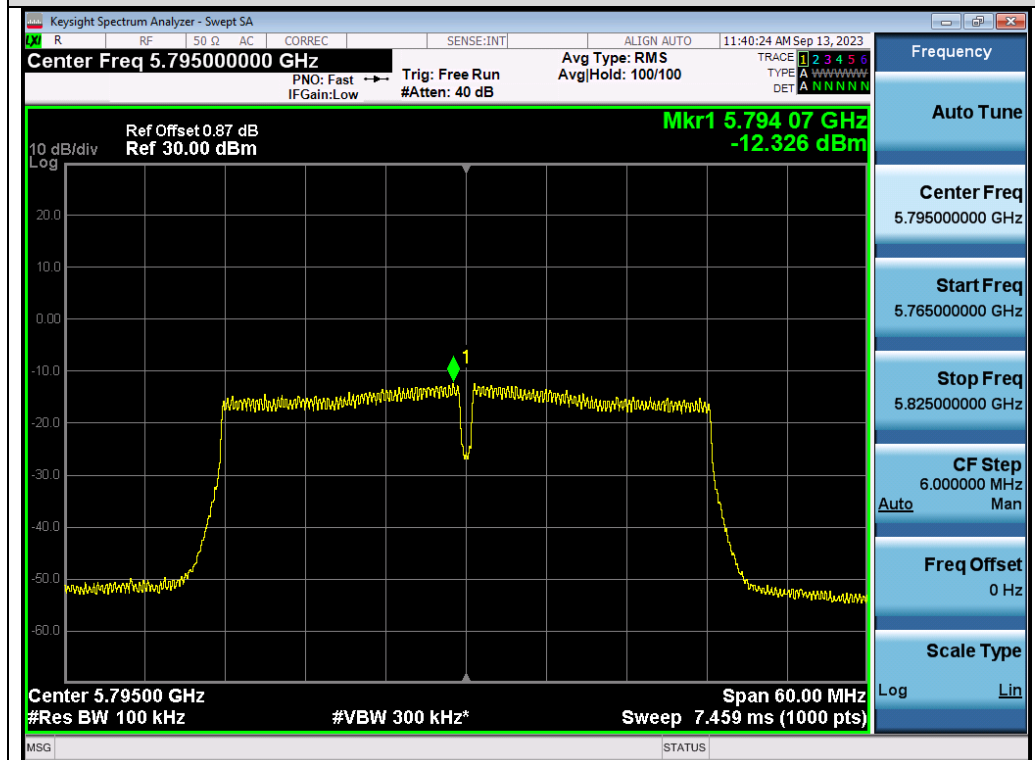
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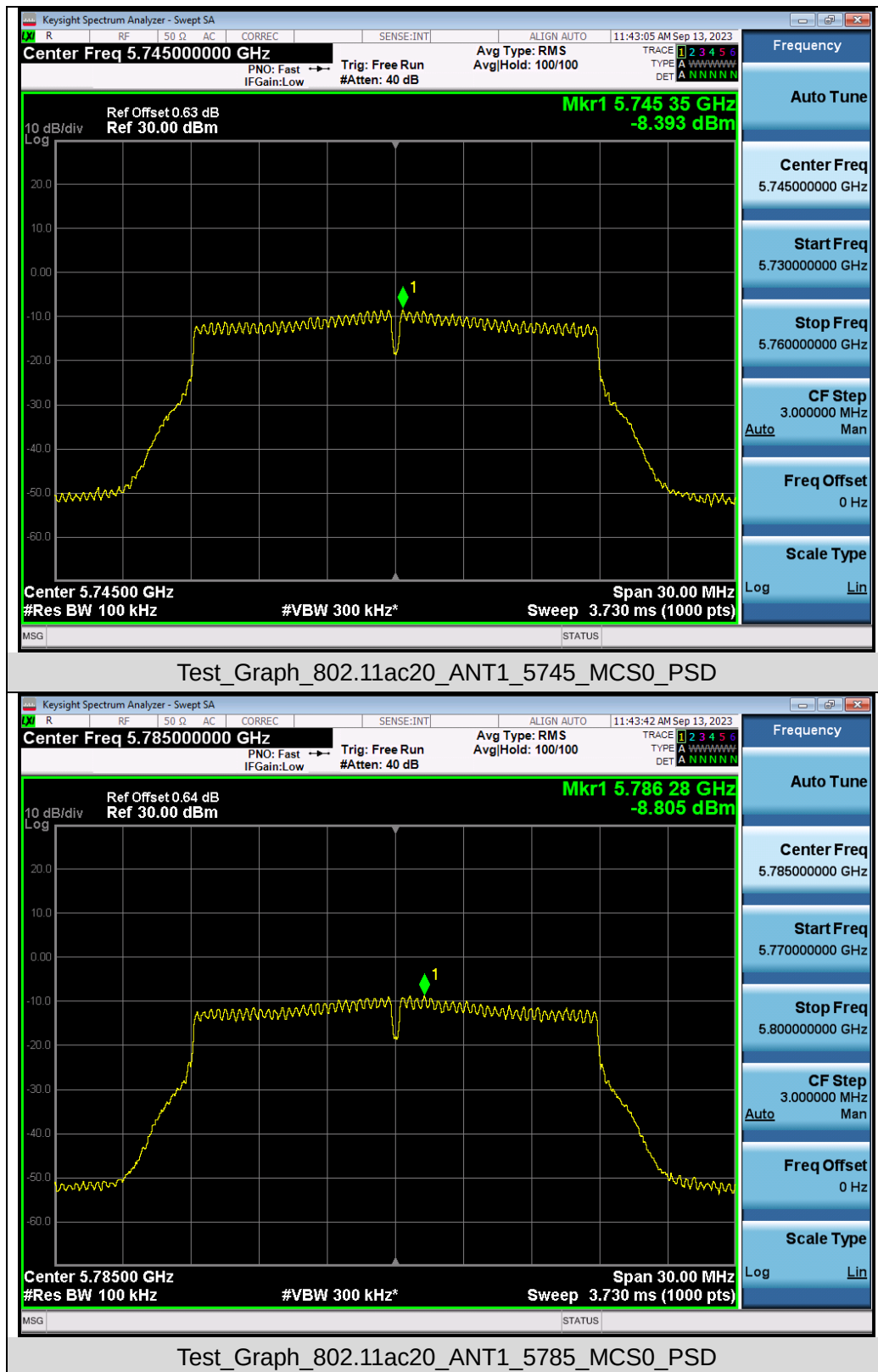
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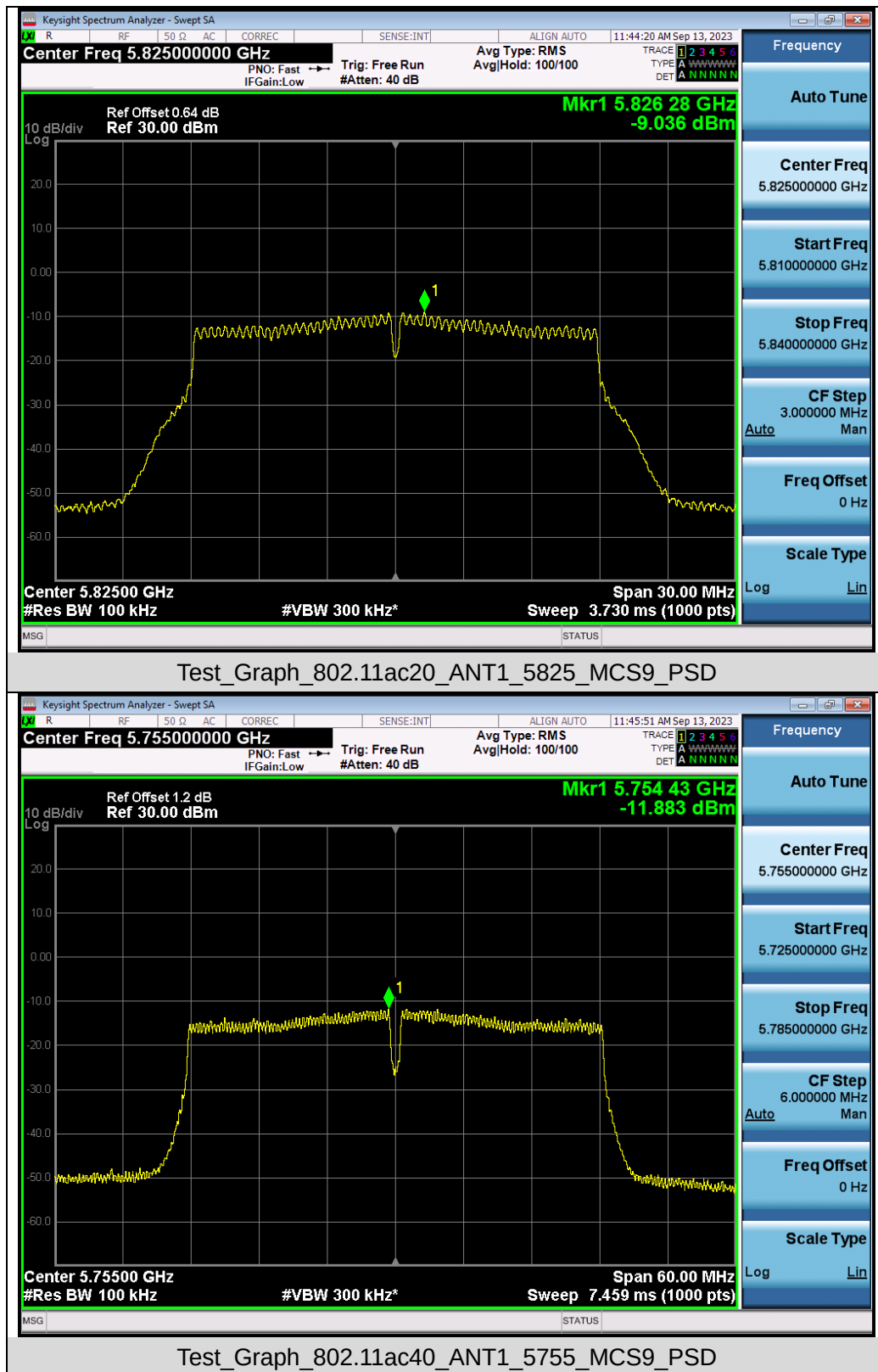
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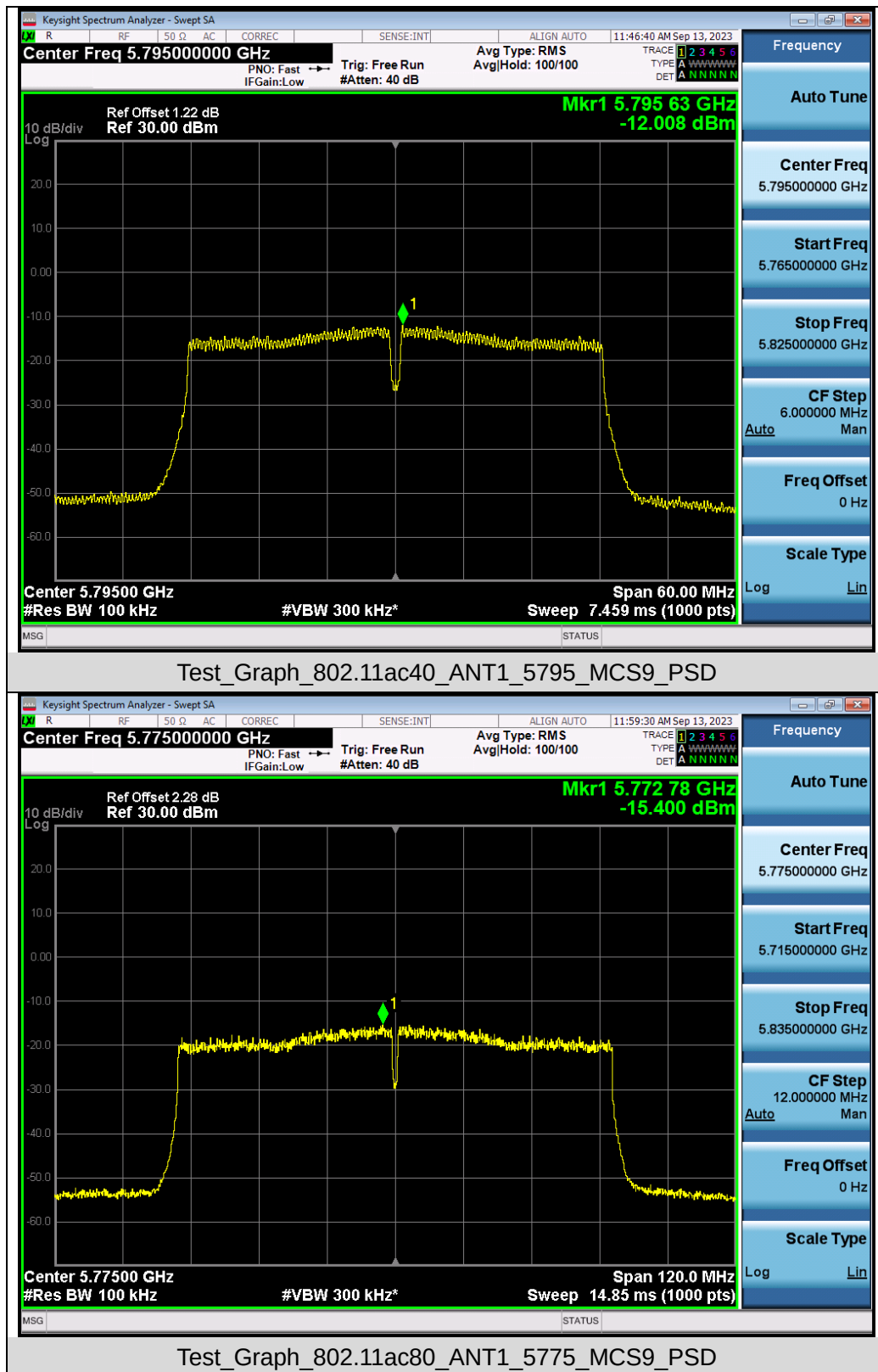
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10. Conducted Band Edge and Out-of-Band Emissions

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:

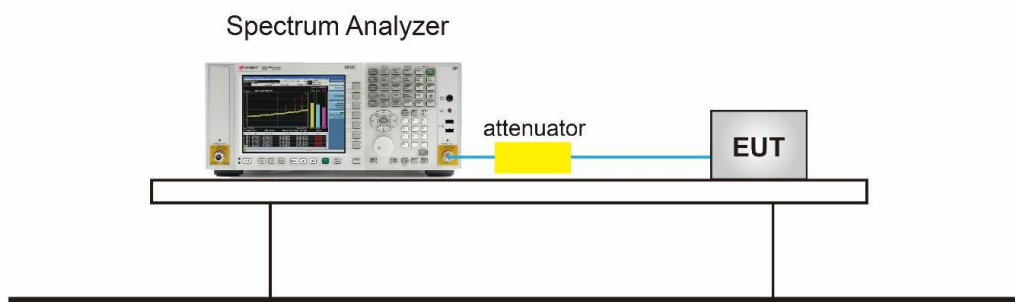
$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

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 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.

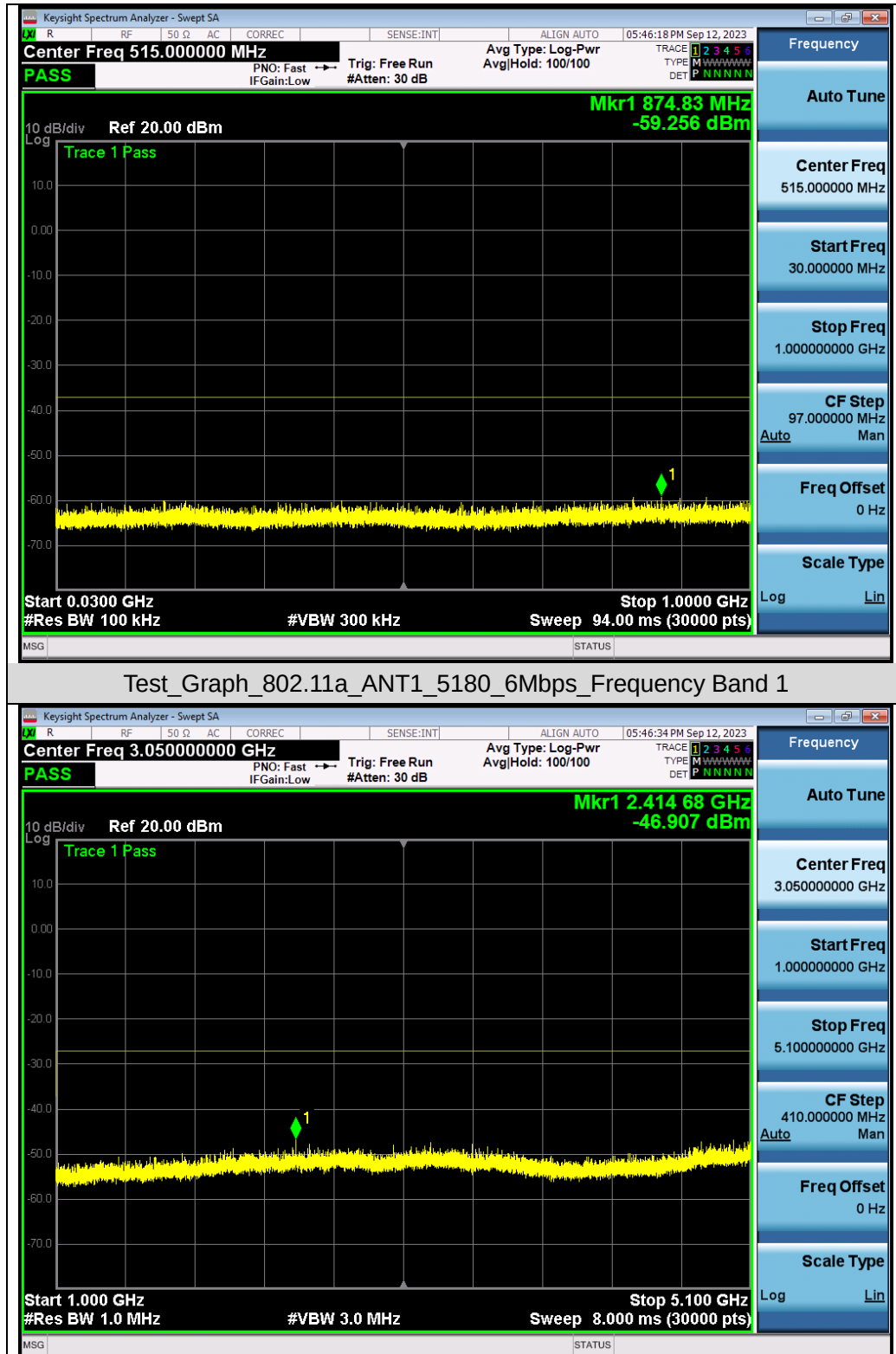
10.3 Measurement Setup (Block Diagram of Configuration)



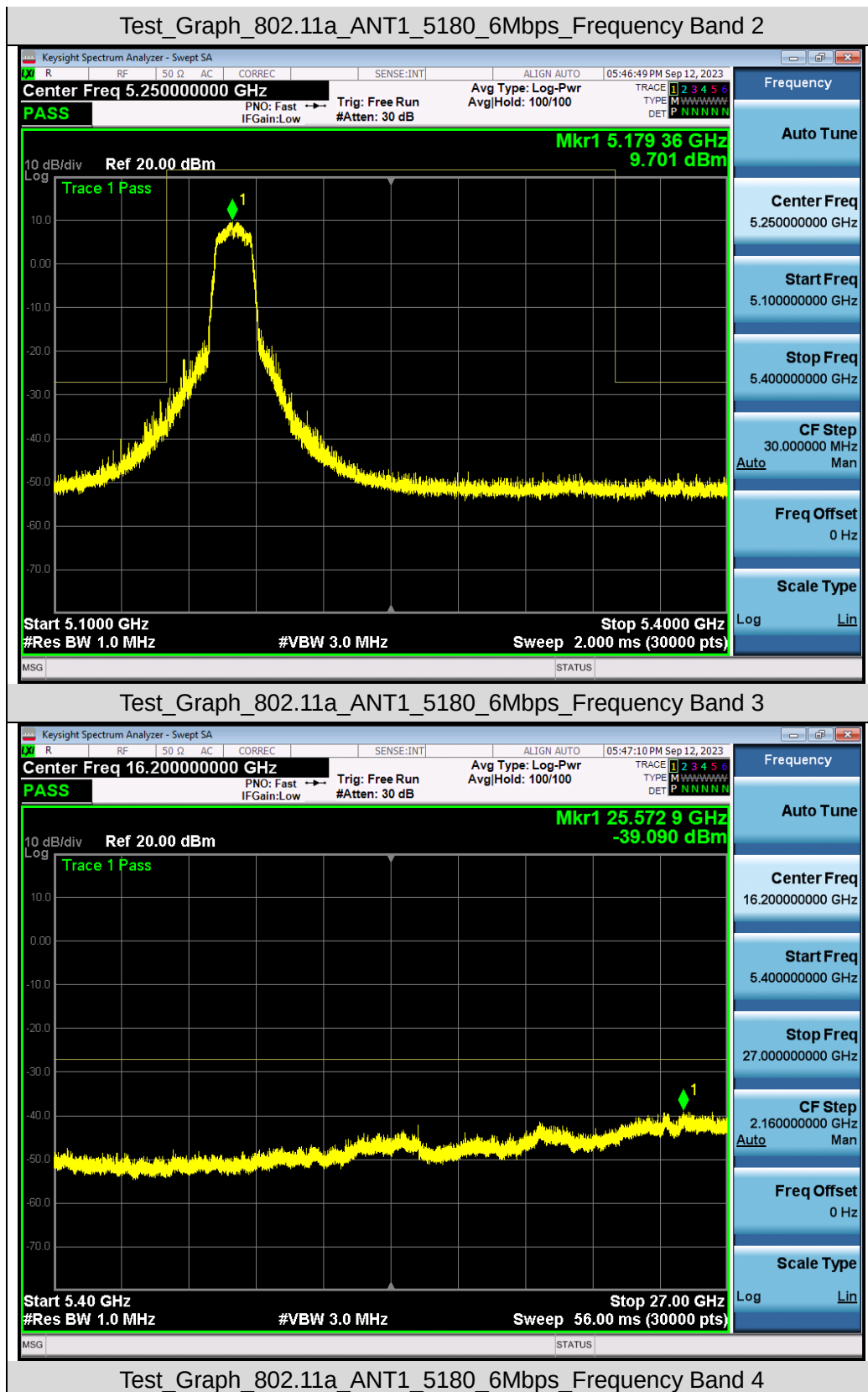
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10.4 Measurement Results

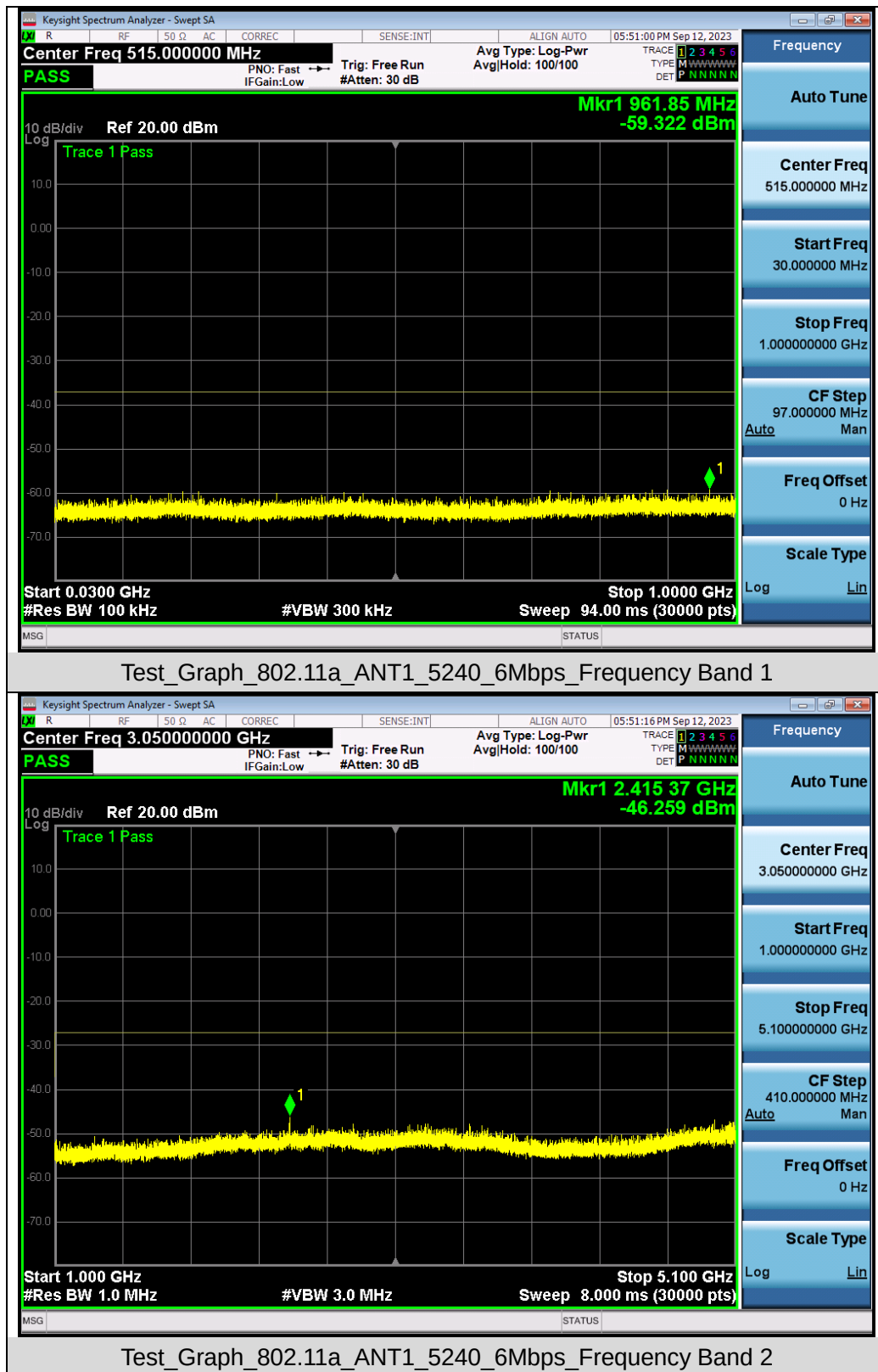
Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band for transmitters operating in the 5.15-5.25 GHz band



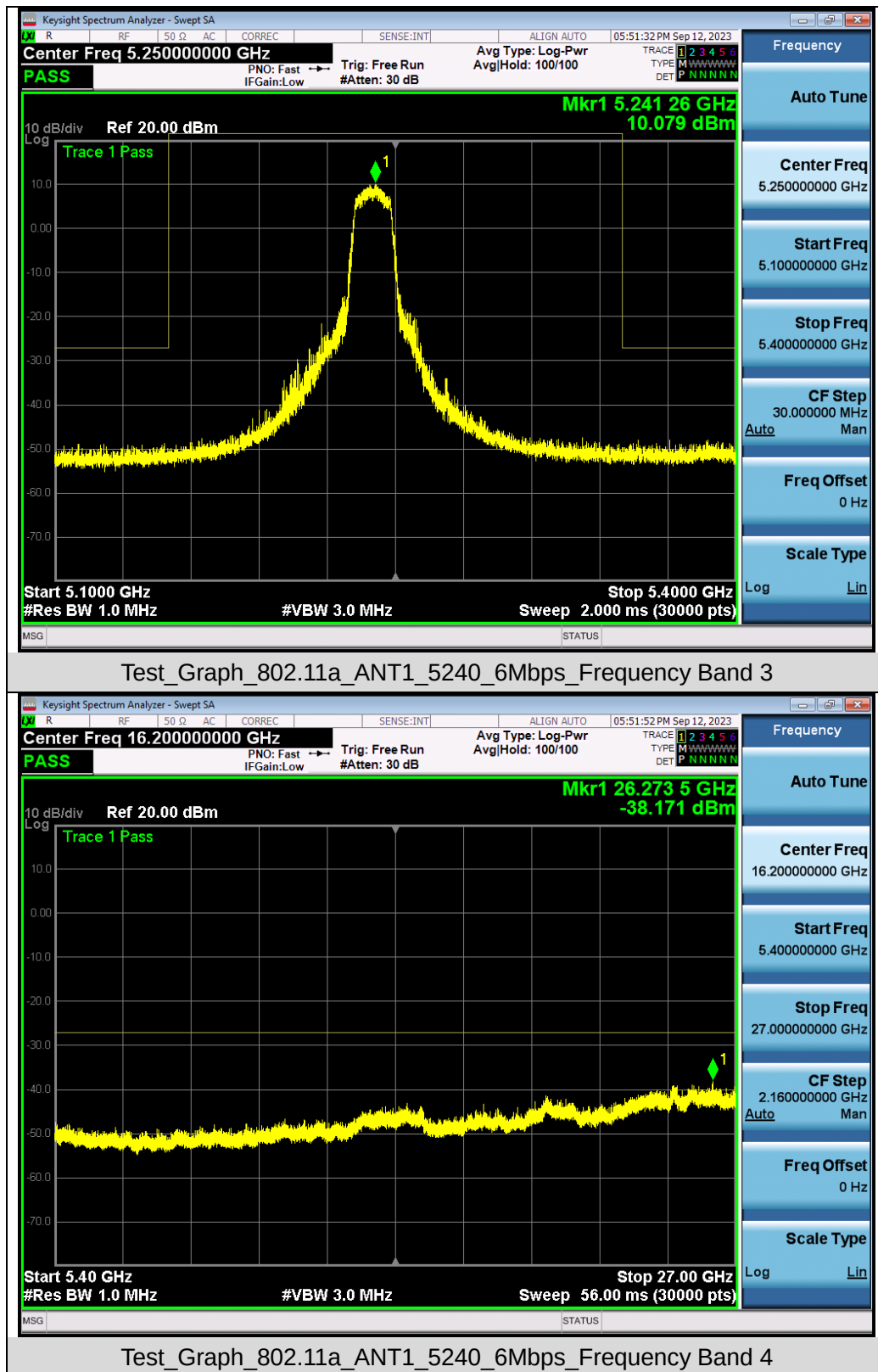
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