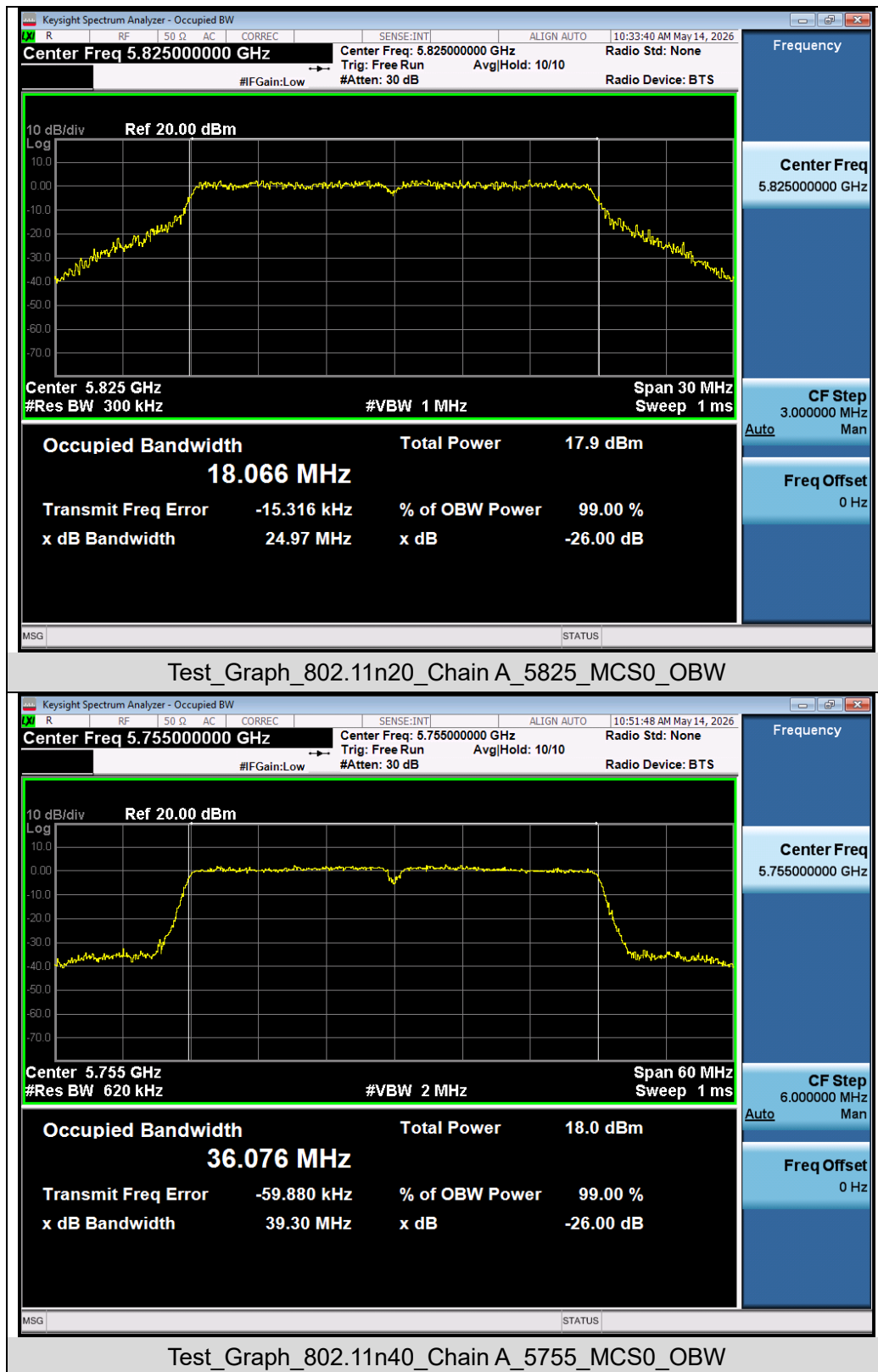
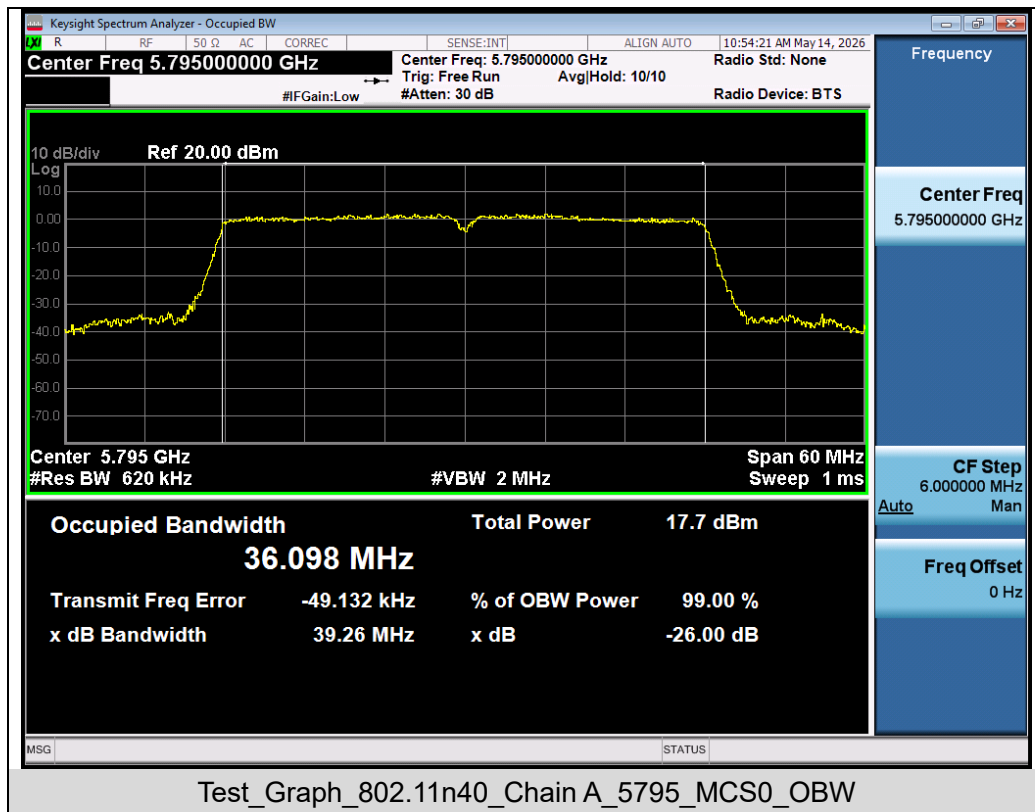
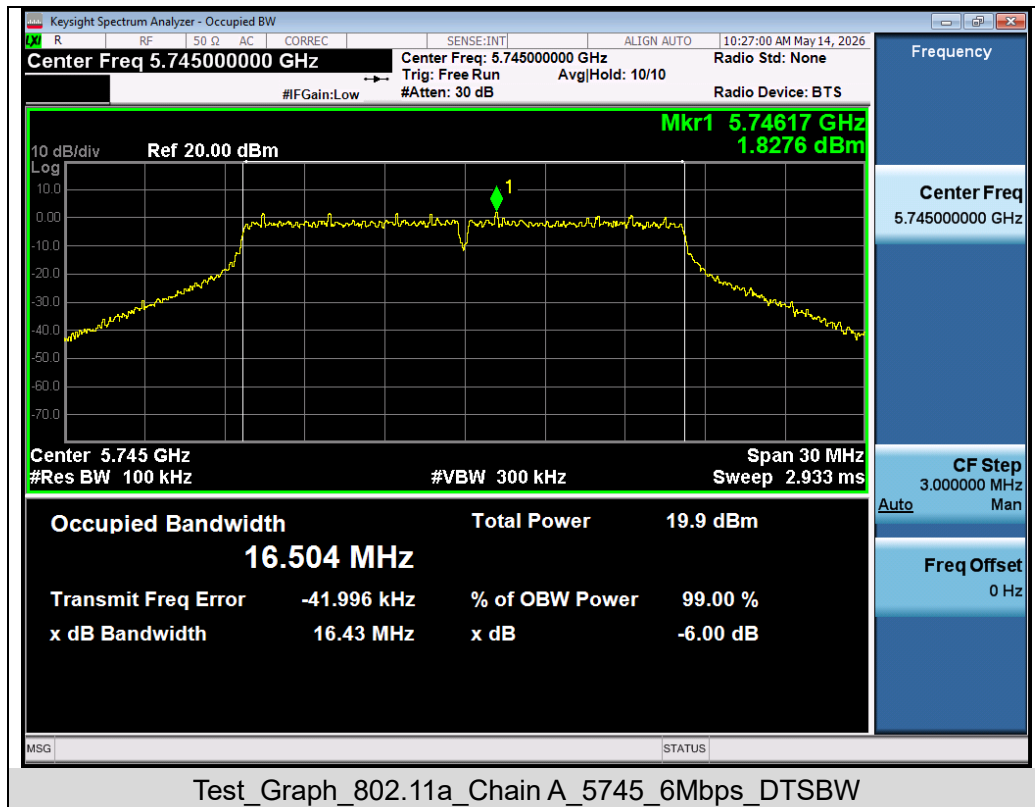




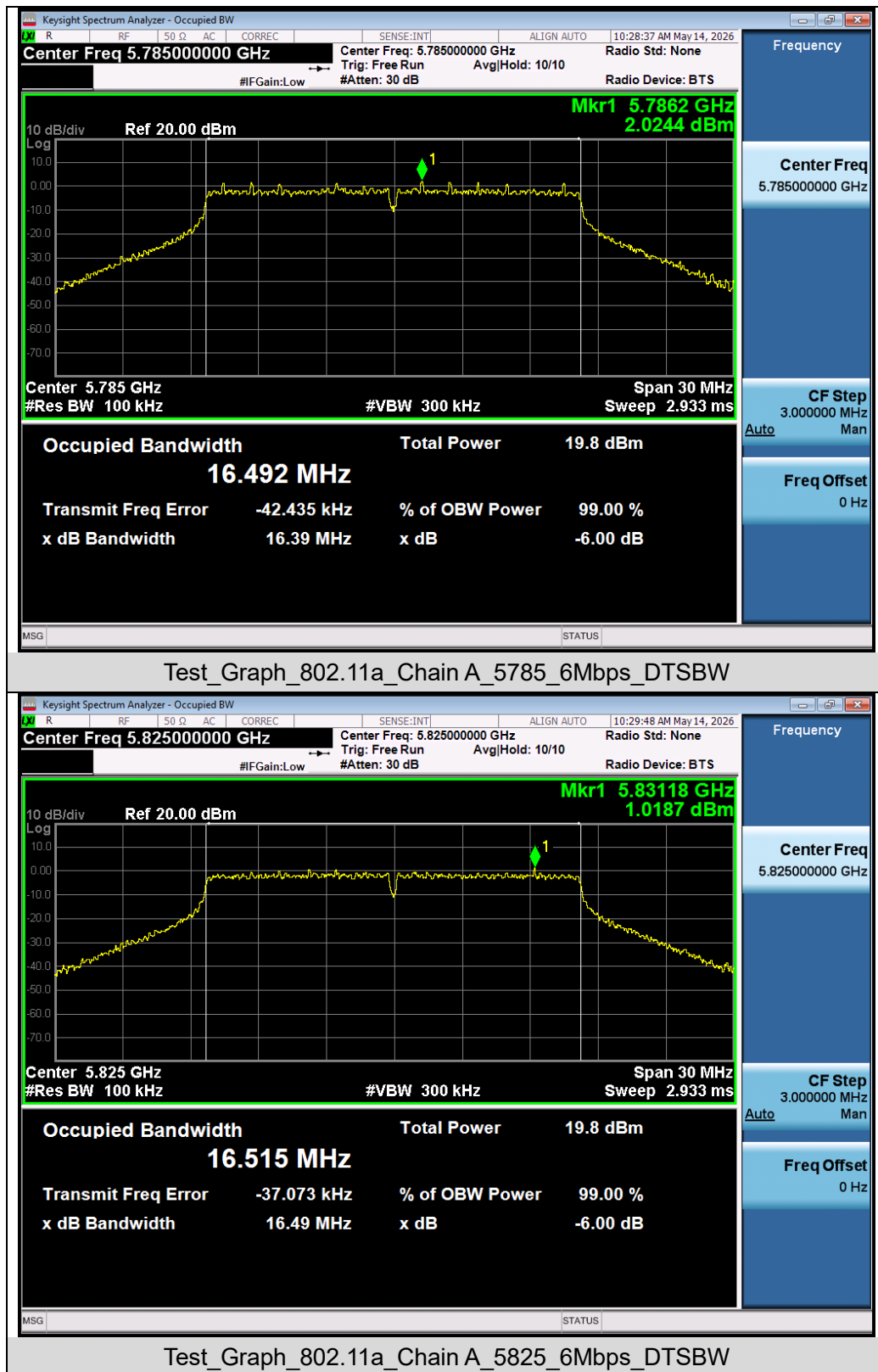
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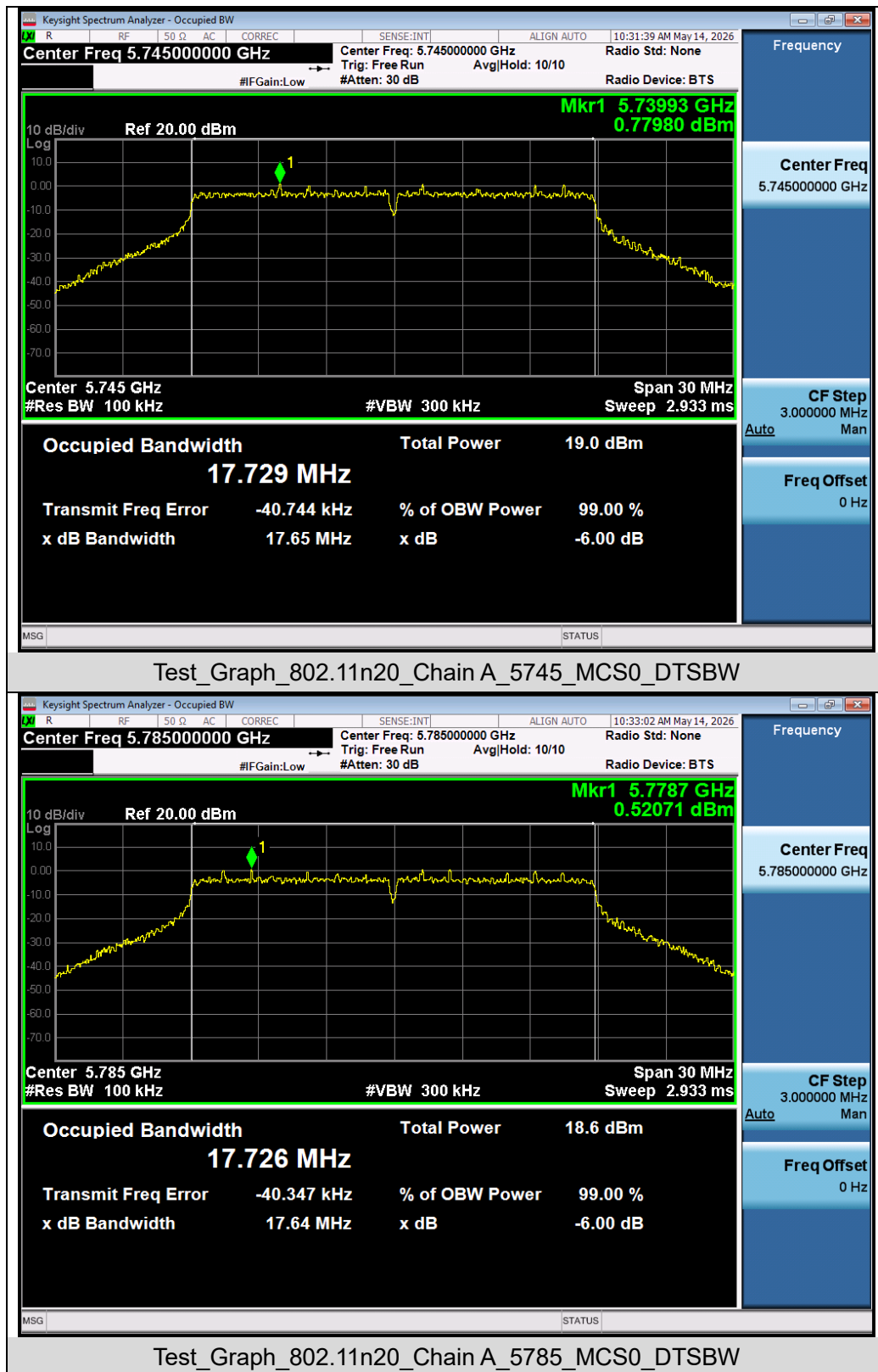
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



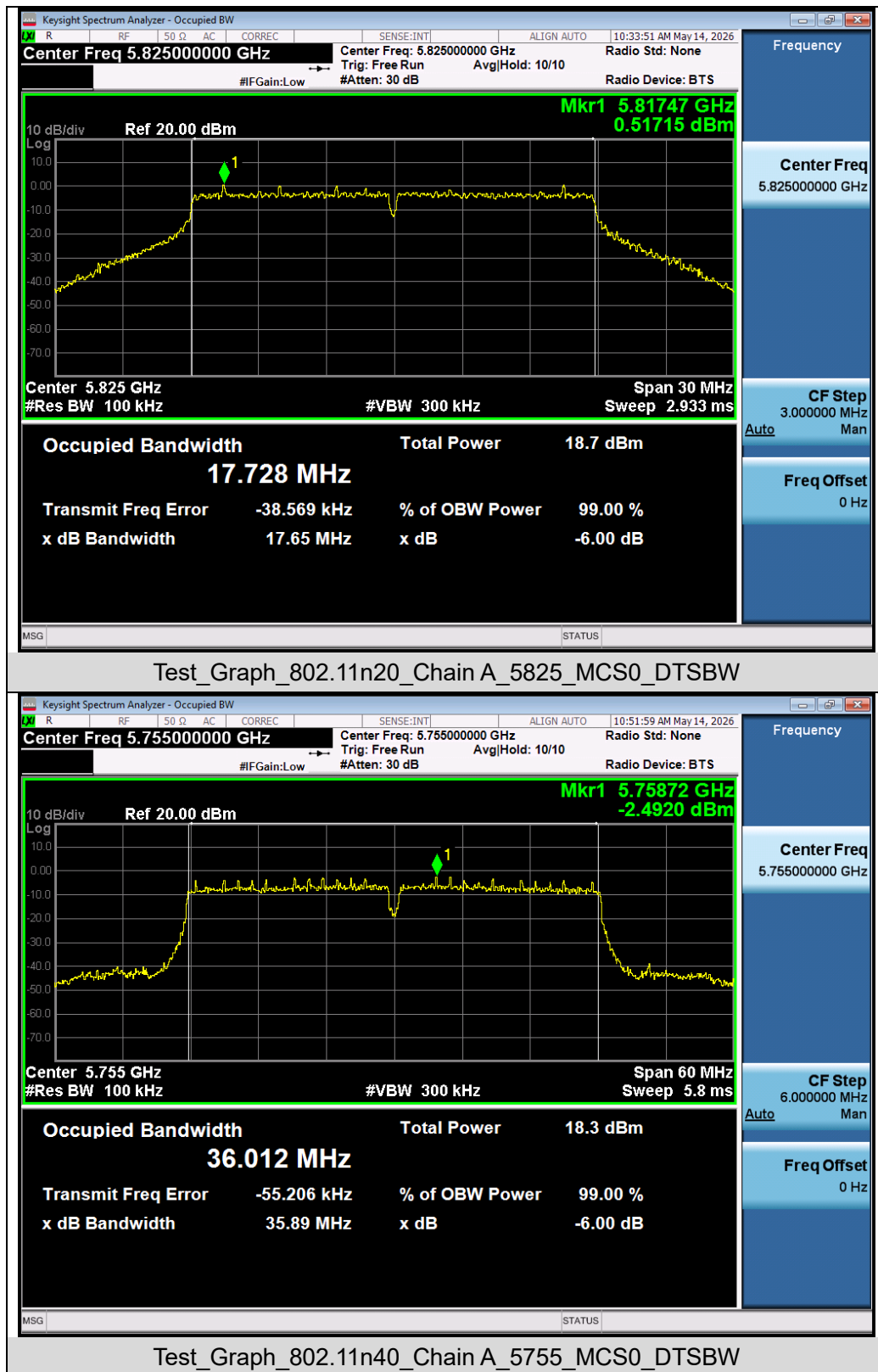
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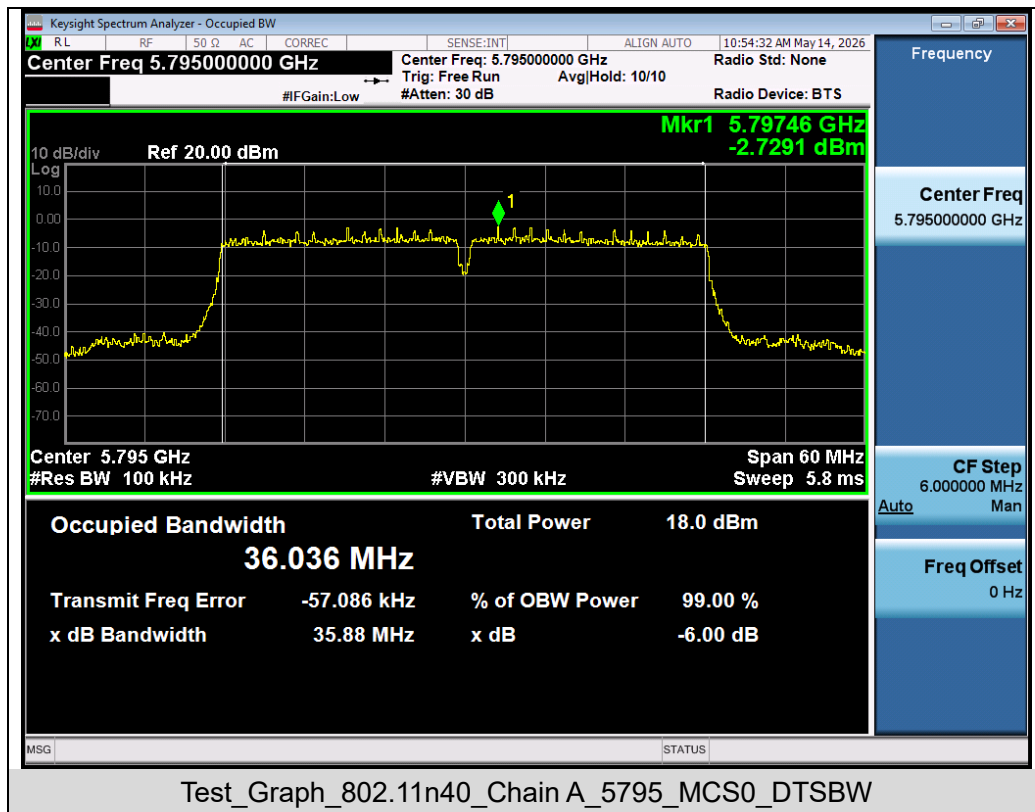
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9. Power Spectral Density Measurement

9.1 Provisions Applicable

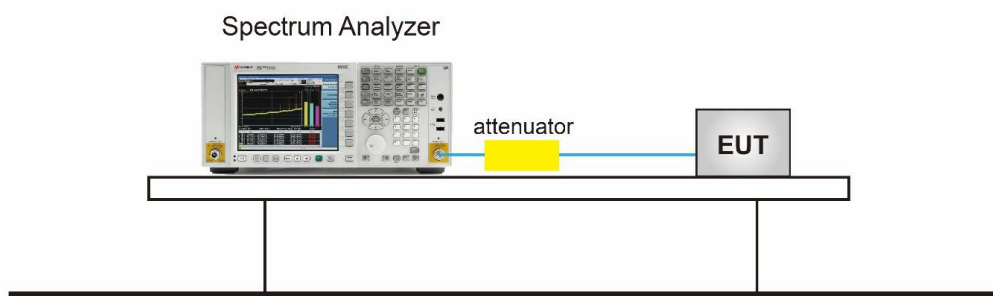
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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	2.595	11	Pass
	5200	2.406	11	Pass
	5240	2.756	11	Pass
802.11n20	5180	1.186	11	Pass
	5200	1.345	11	Pass
	5240	1.465	11	Pass
802.11n40	5190	-1.881	11	Pass
	5230	-1.551	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	2.825	11	Pass
	5300	2.661	11	Pass
	5320	2.721	11	Pass
802.11n20	5260	1.706	11	Pass
	5300	1.719	11	Pass
	5320	1.750	11	Pass
802.11n40	5270	-2.838	11	Pass
	5310	-3.170	11	Pass

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	3.314	11	Pass
	5600	2.463	11	Pass
	5700	3.328	11	Pass
802.11n20	5500	2.155	11	Pass
	5600	1.256	11	Pass
	5700	1.780	11	Pass
802.11n40	5510	-1.324	11	Pass
	5590	-2.110	11	Pass
	5670	-1.802	11	Pass

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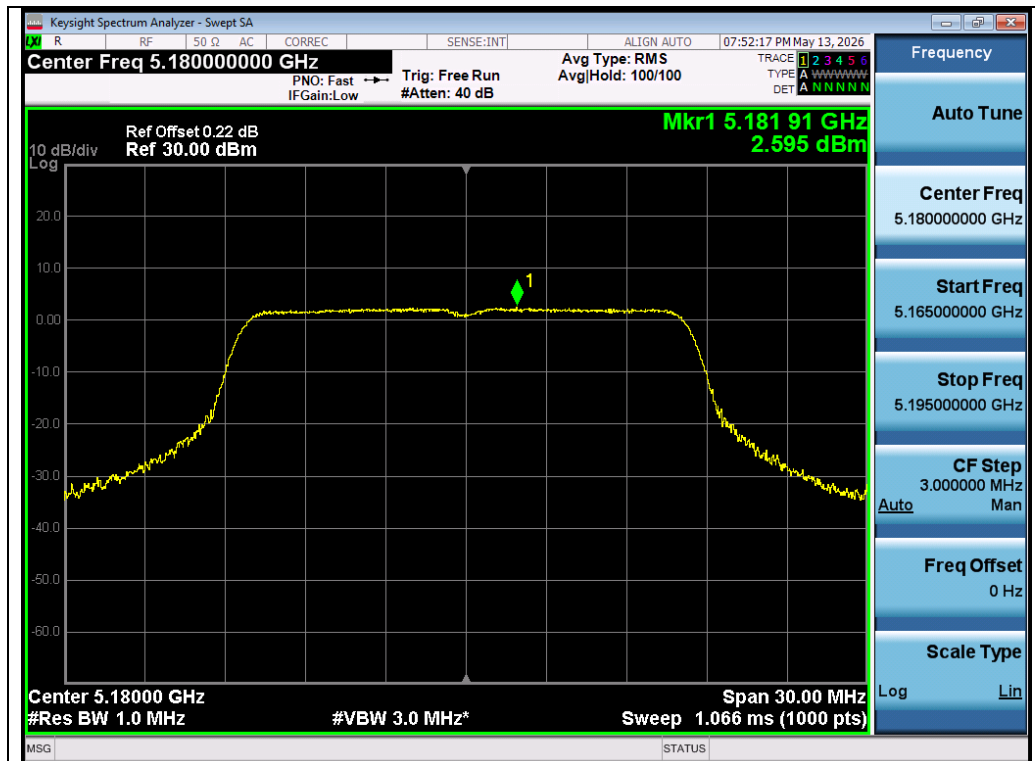
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/510kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-0.312	-0.398	30	Pass
	5785	-0.868	-0.954	30	Pass
	5825	-0.403	-0.489	30	Pass
802.11n20	5745	-1.726	-1.812	30	Pass
	5785	-2.246	-2.332	30	Pass
	5825	-10.207	-10.293	30	Pass
802.11n40	5755	-5.385	-5.471	30	Pass
	5795	-5.679	-5.765	30	Pass

Note:1.Power density(dBm/500kHz) = Power density(dBm/510kHz)+10*log(500/510).

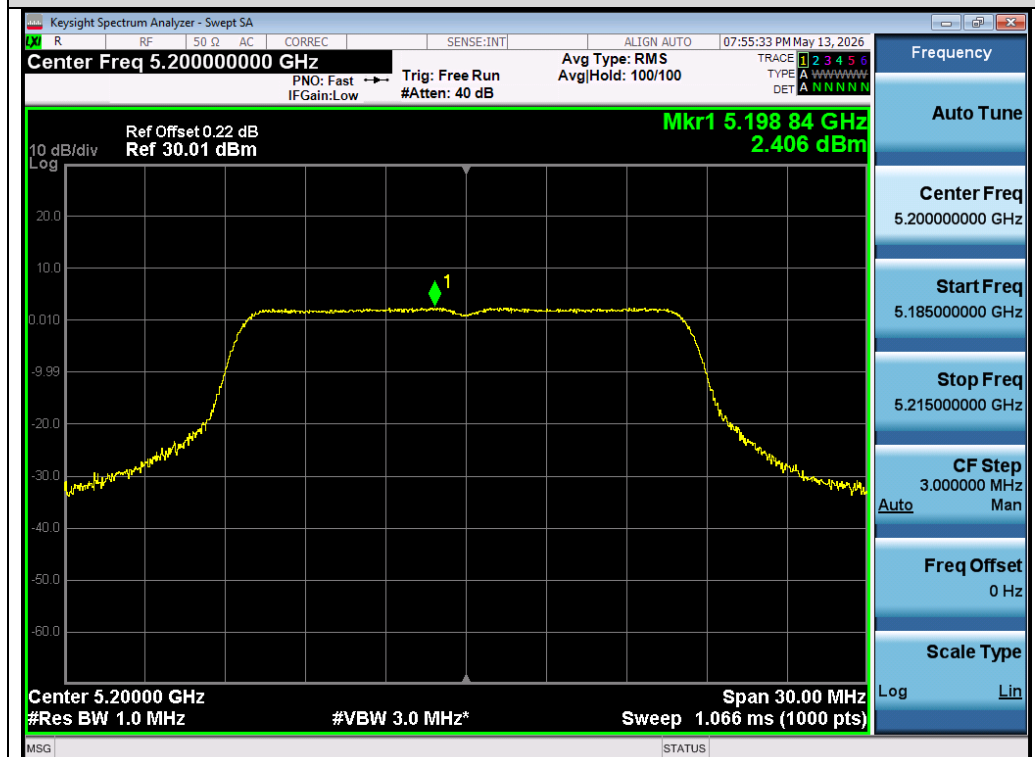
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

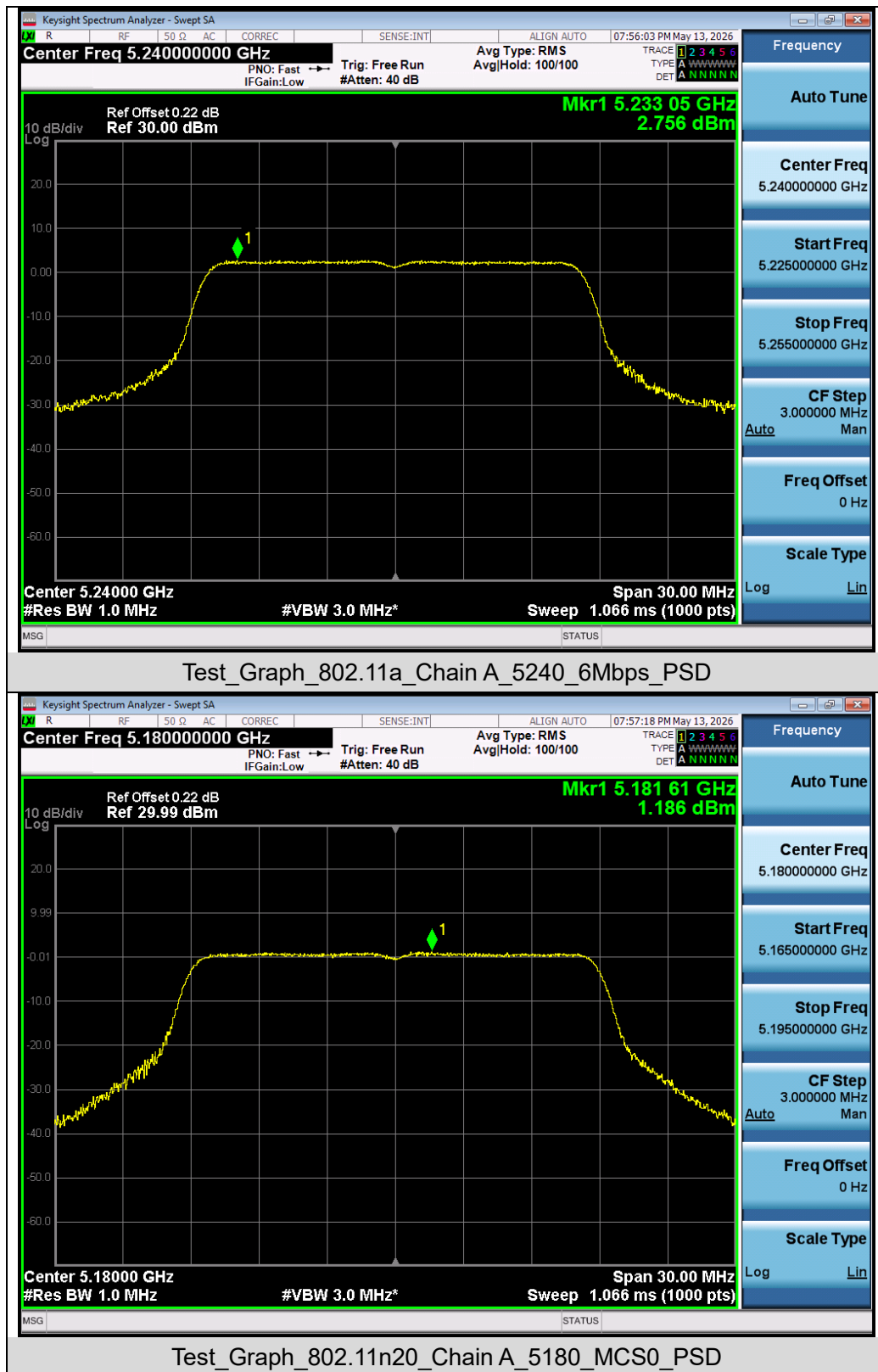


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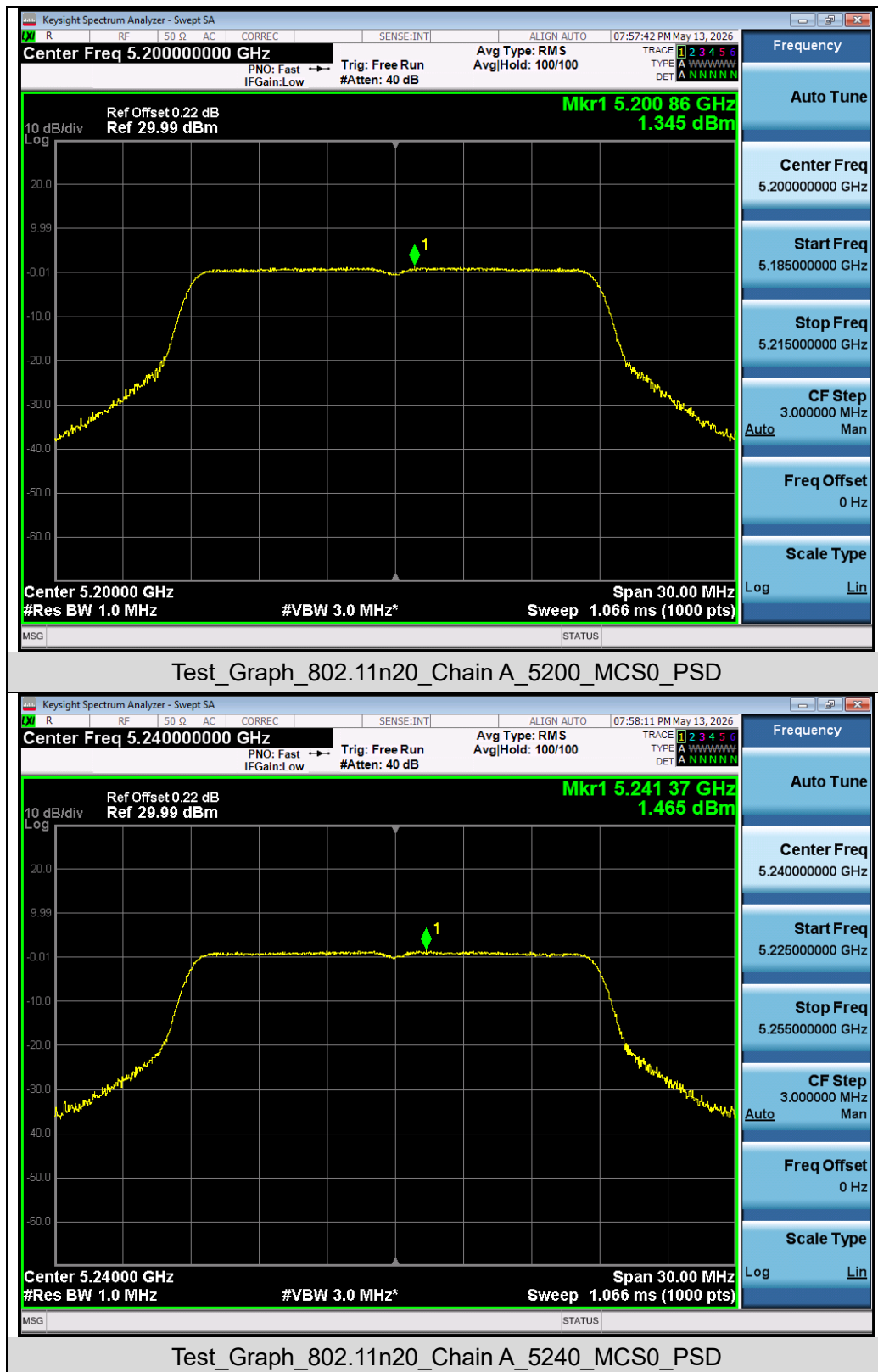
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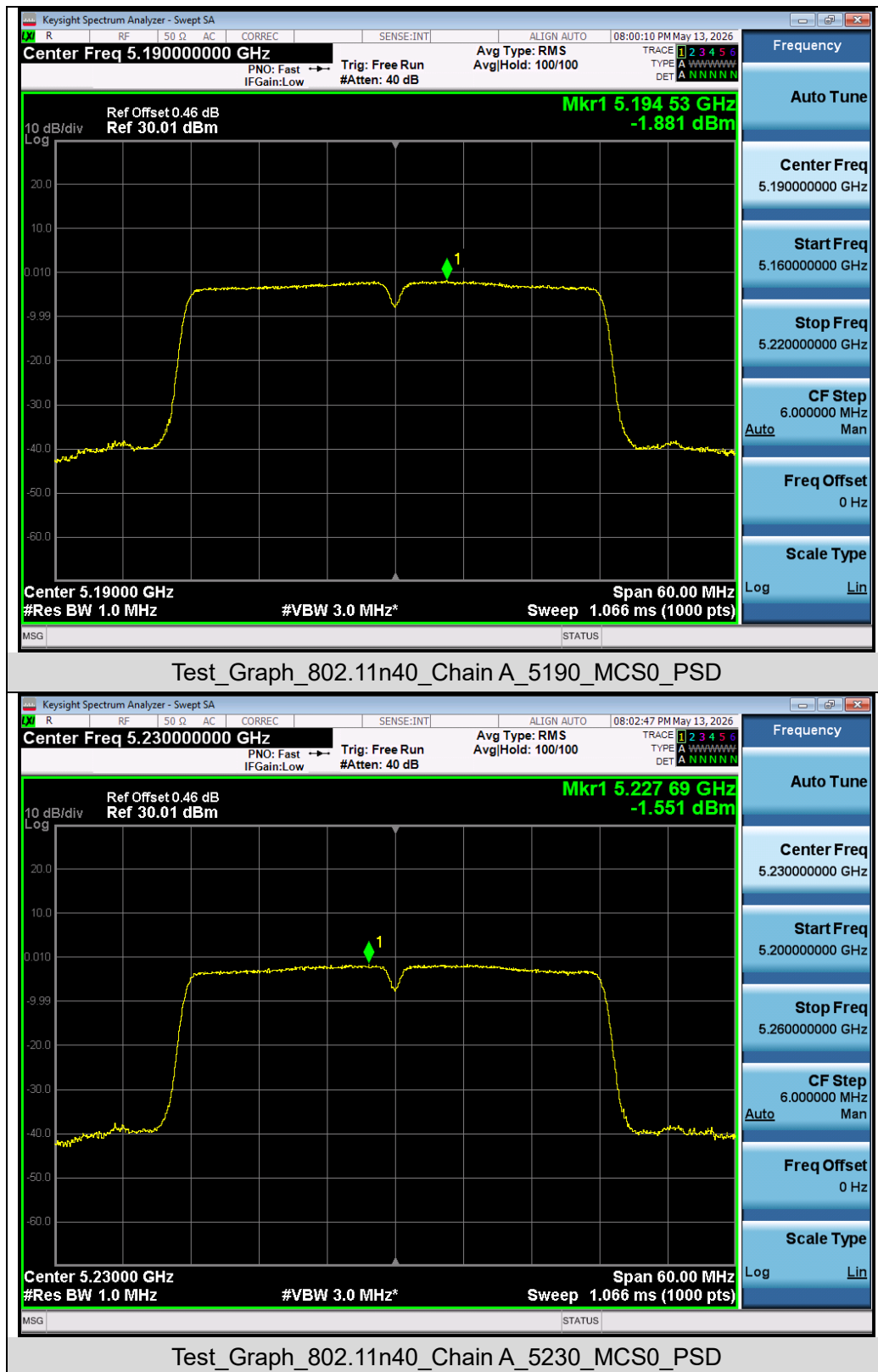
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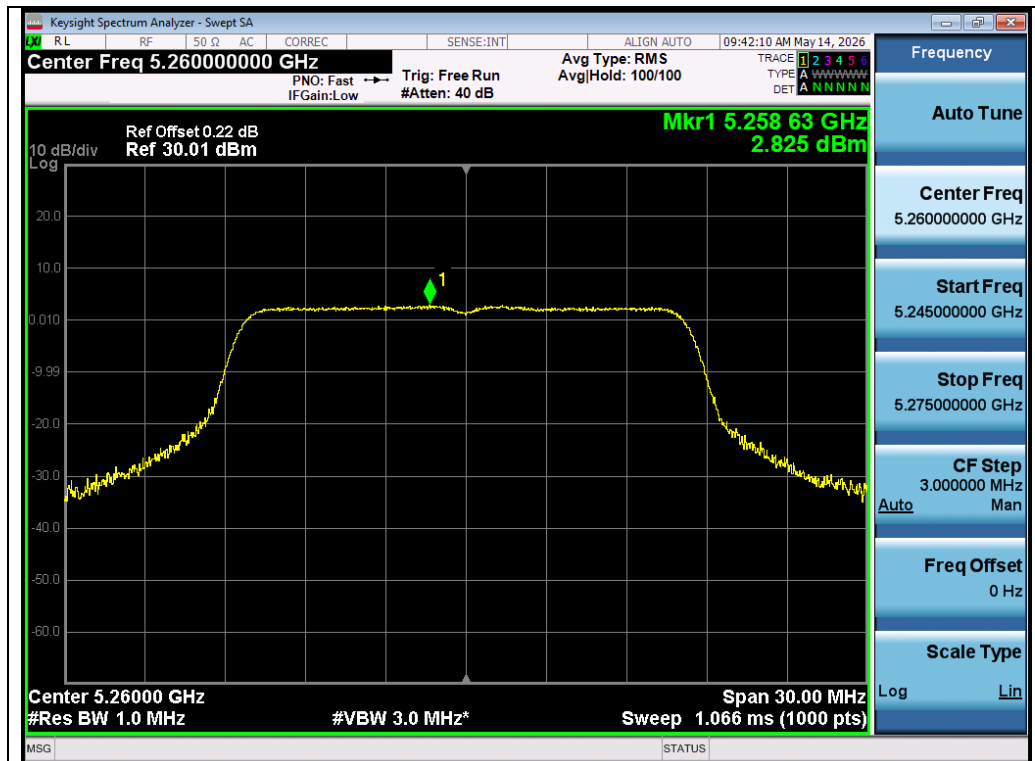
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

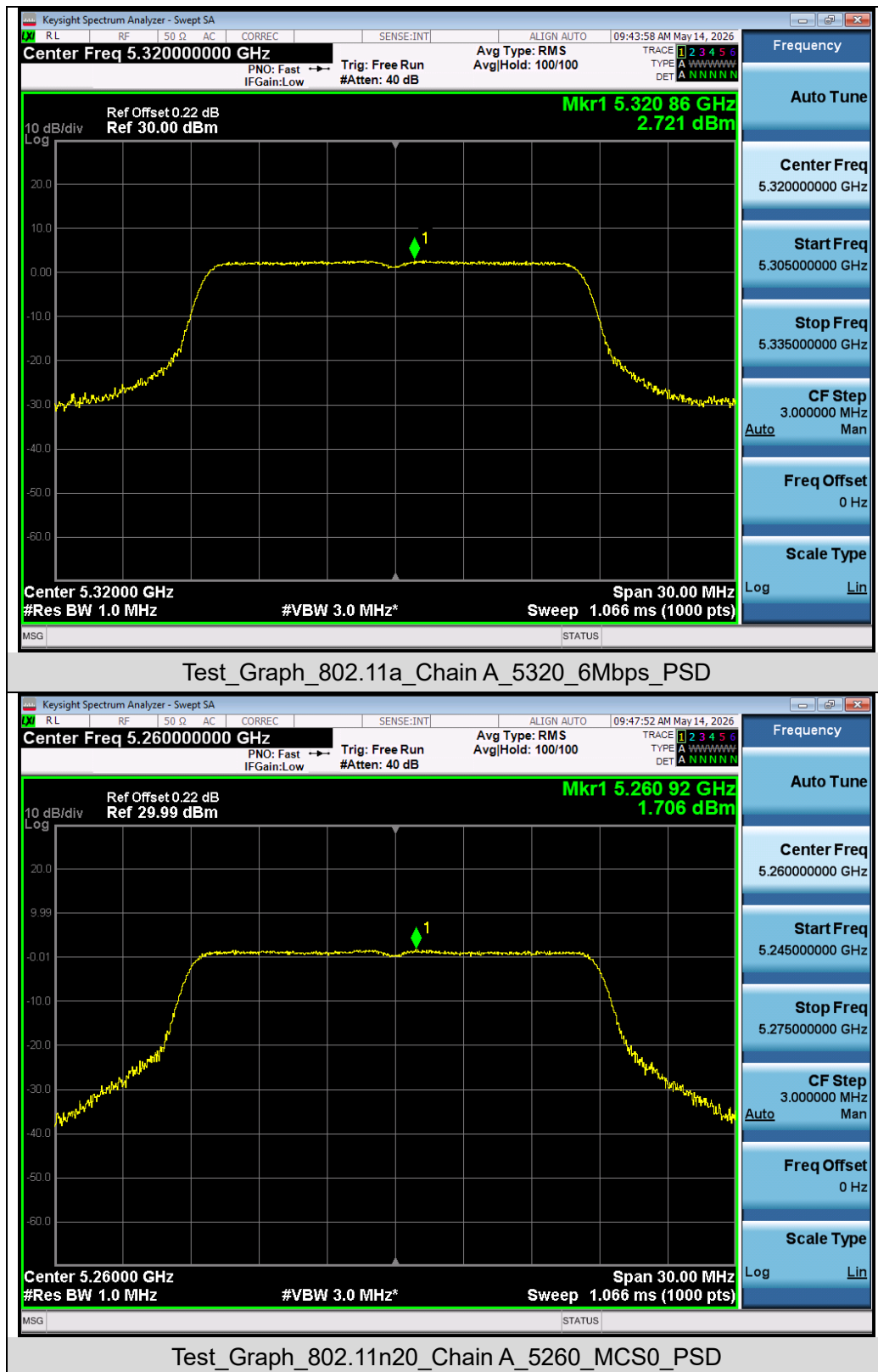


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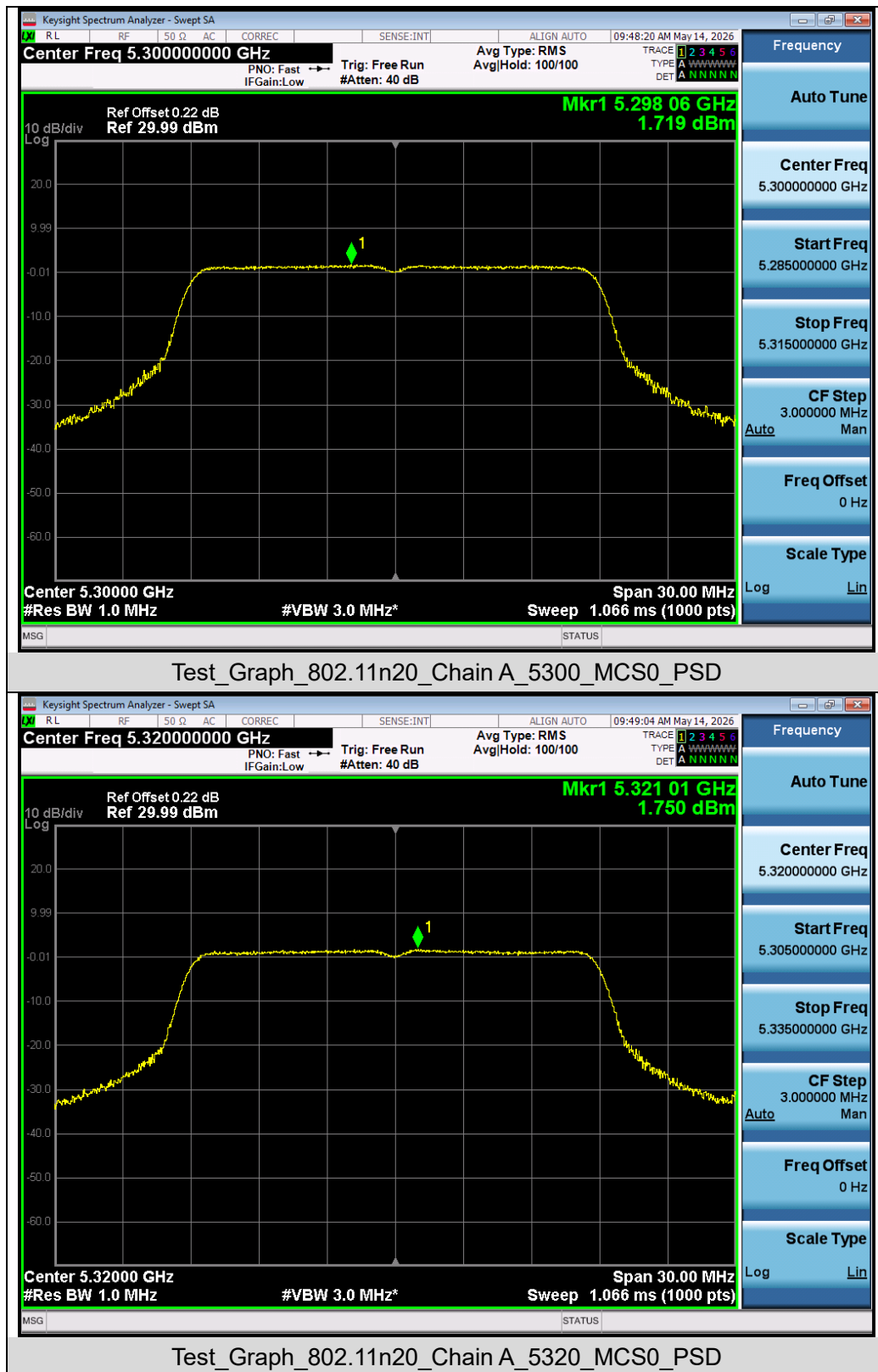
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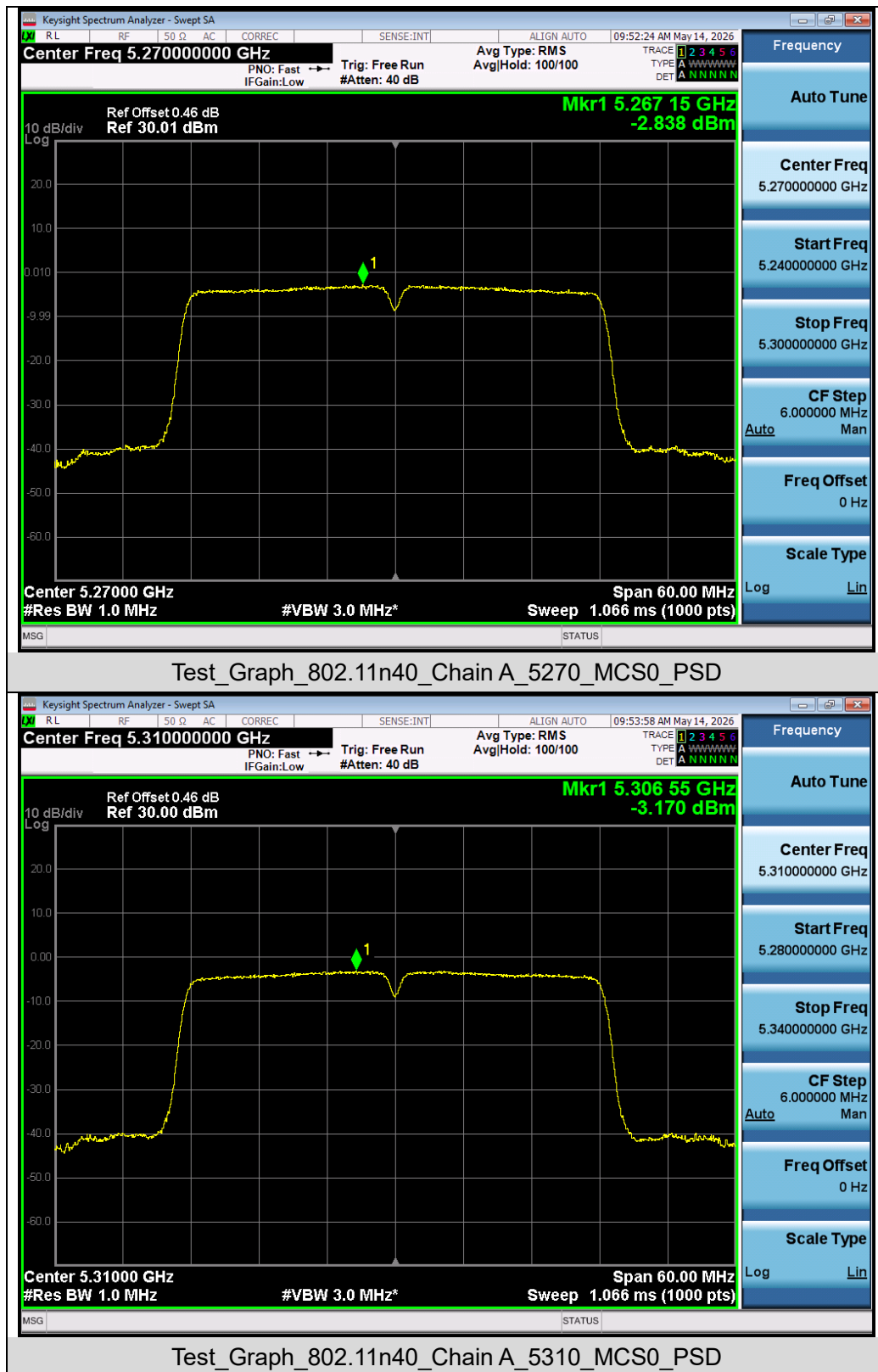
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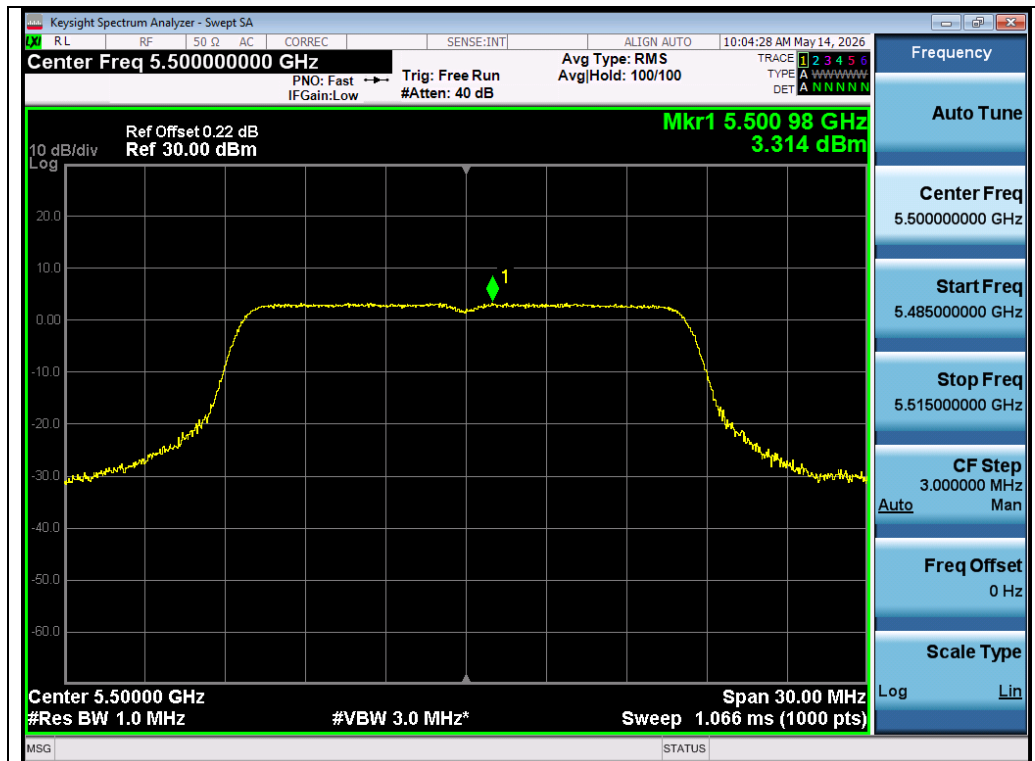
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Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

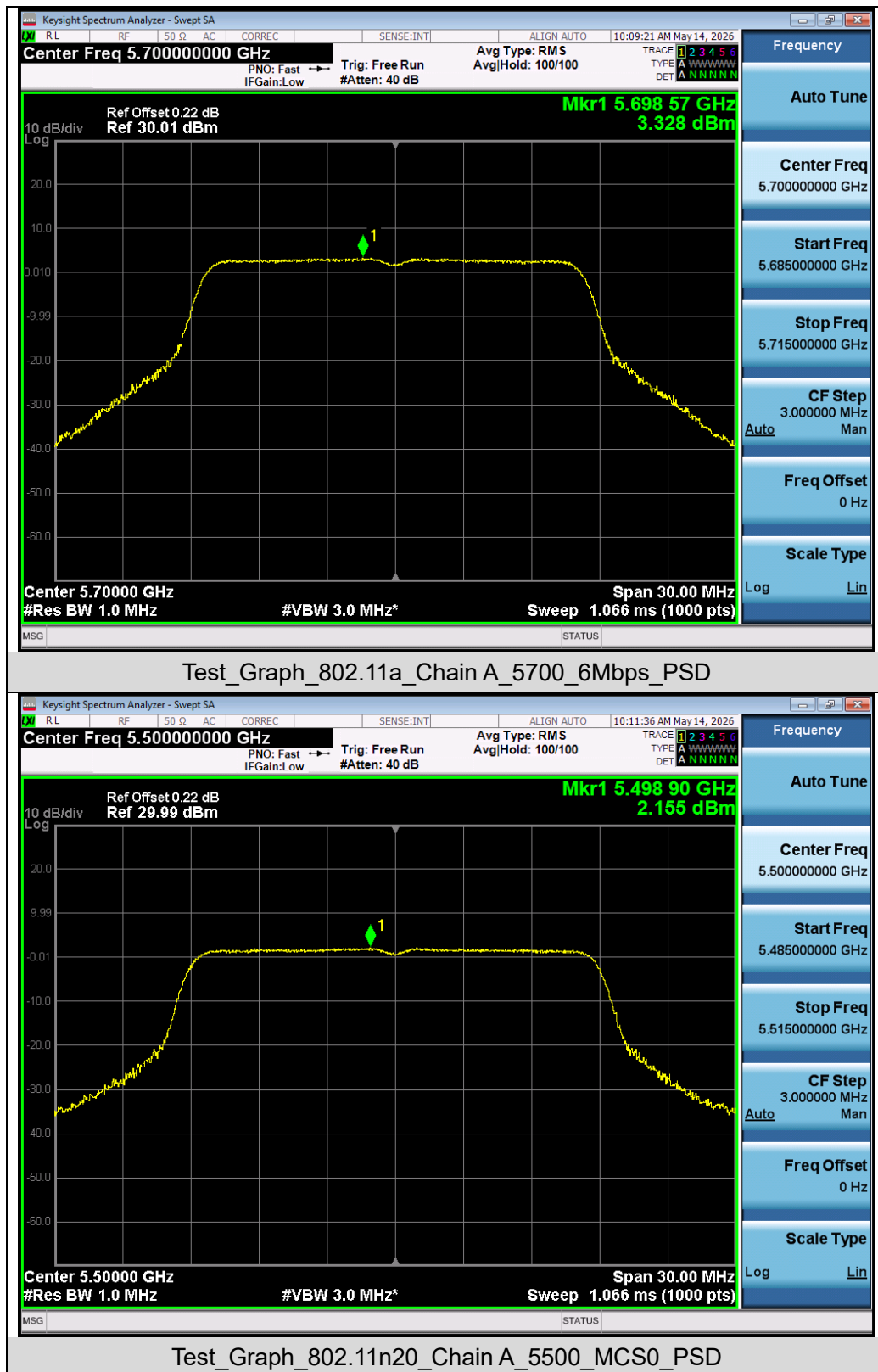


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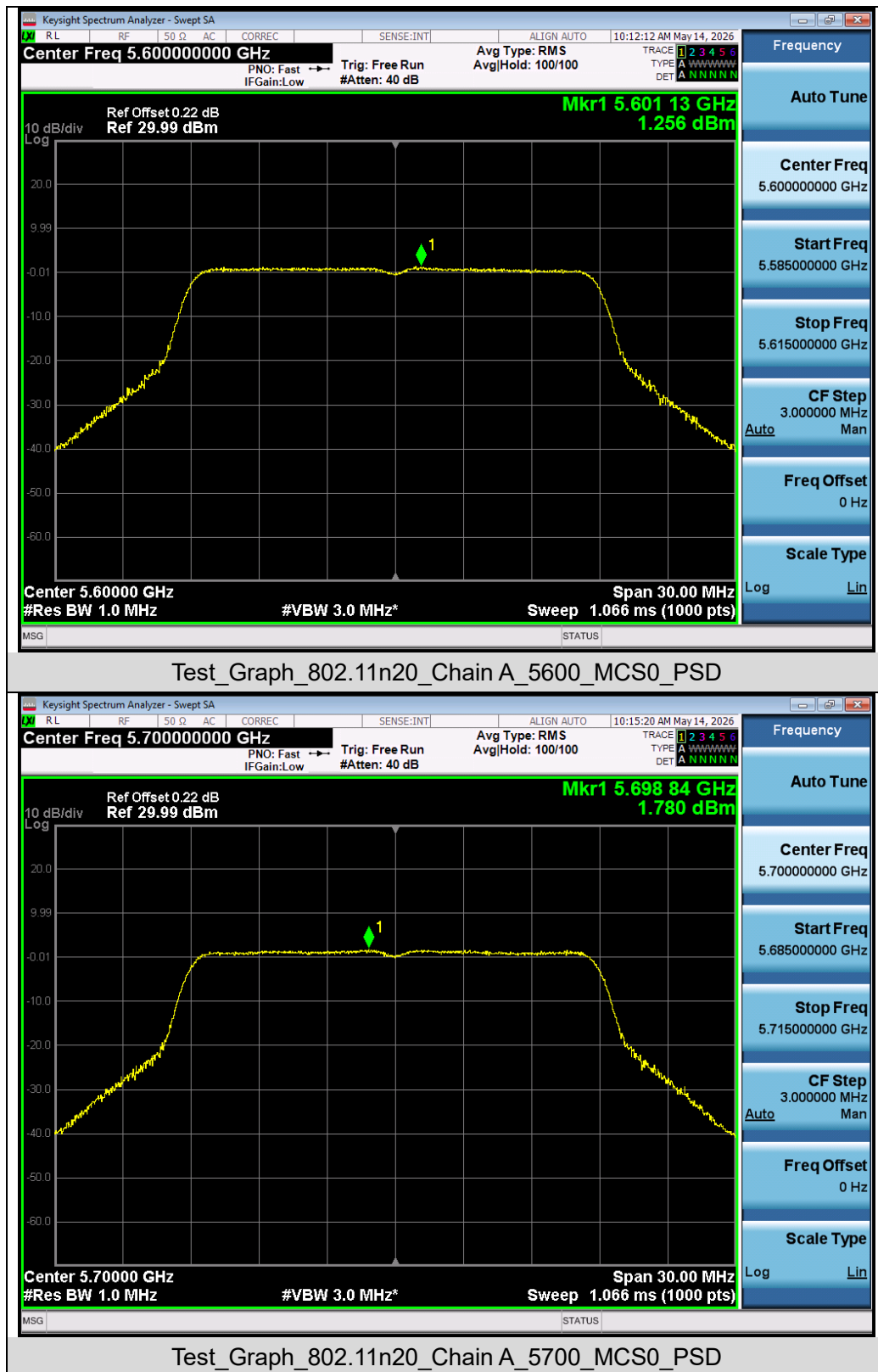


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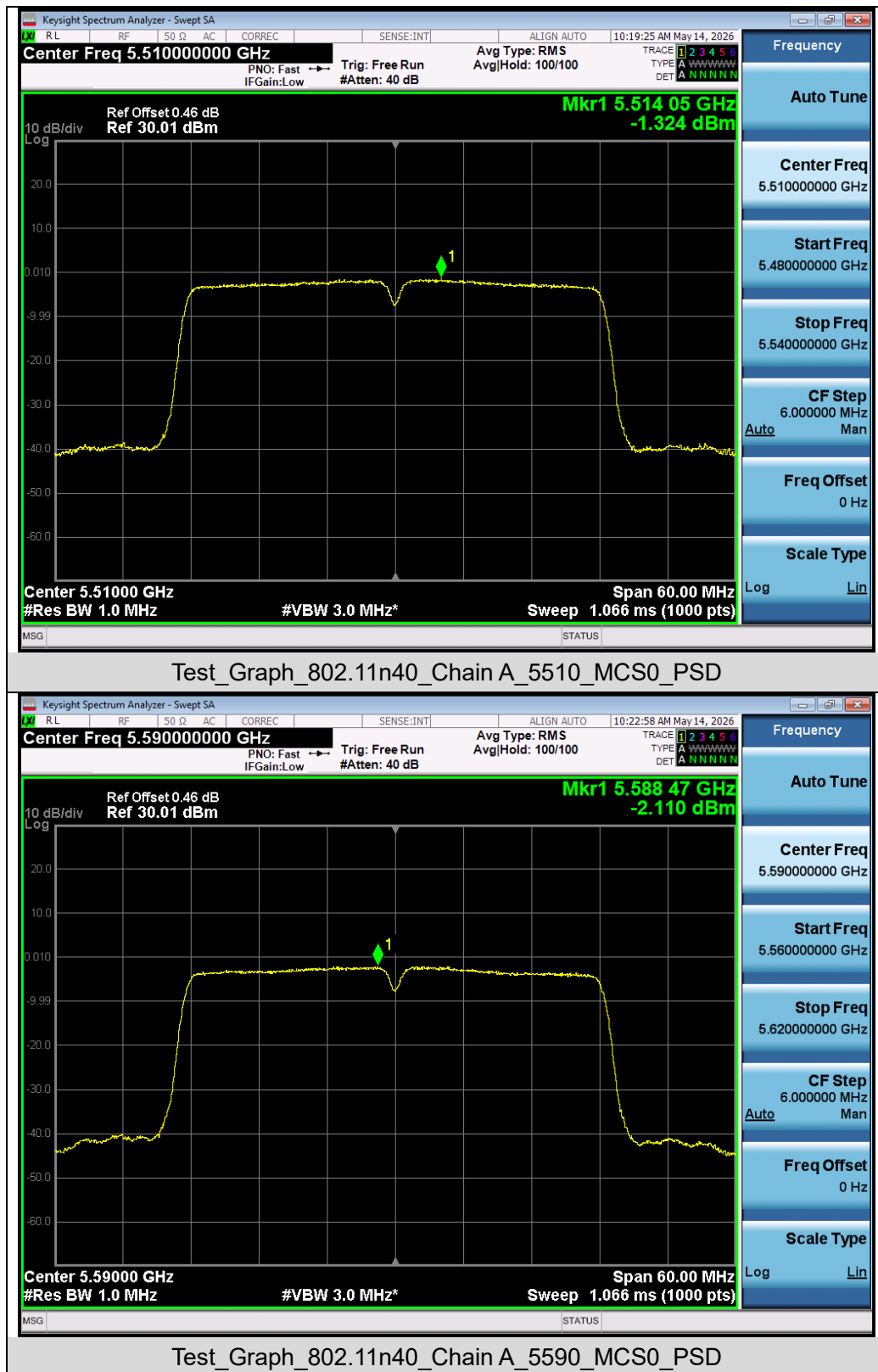


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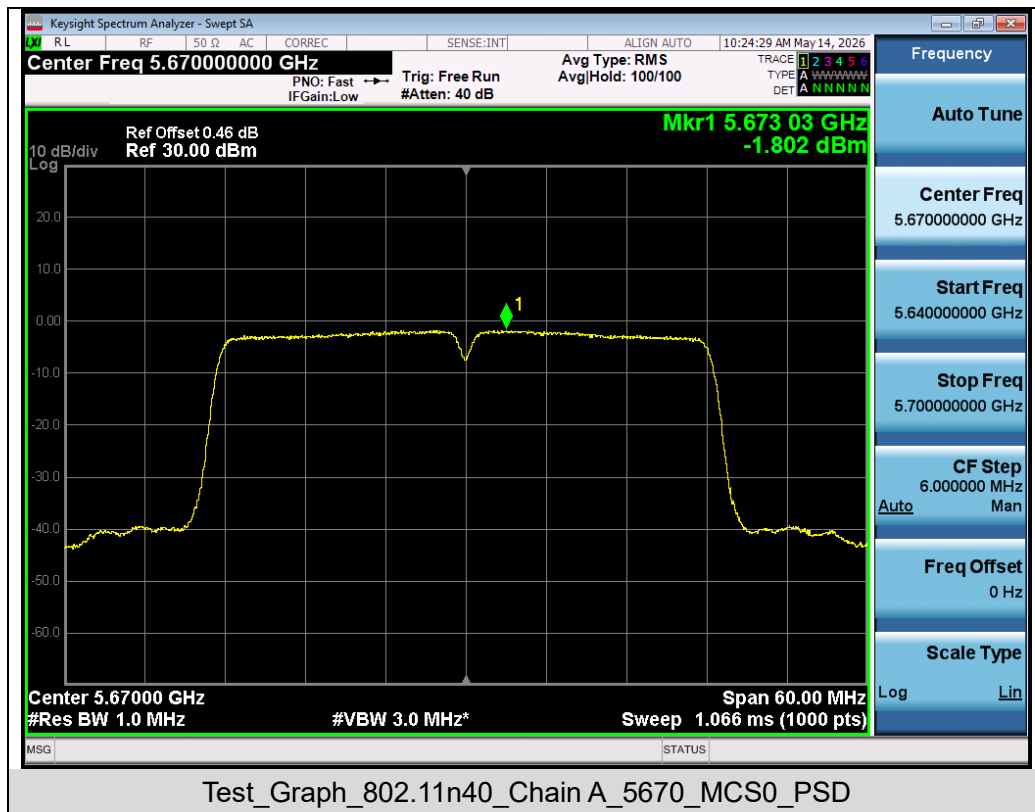
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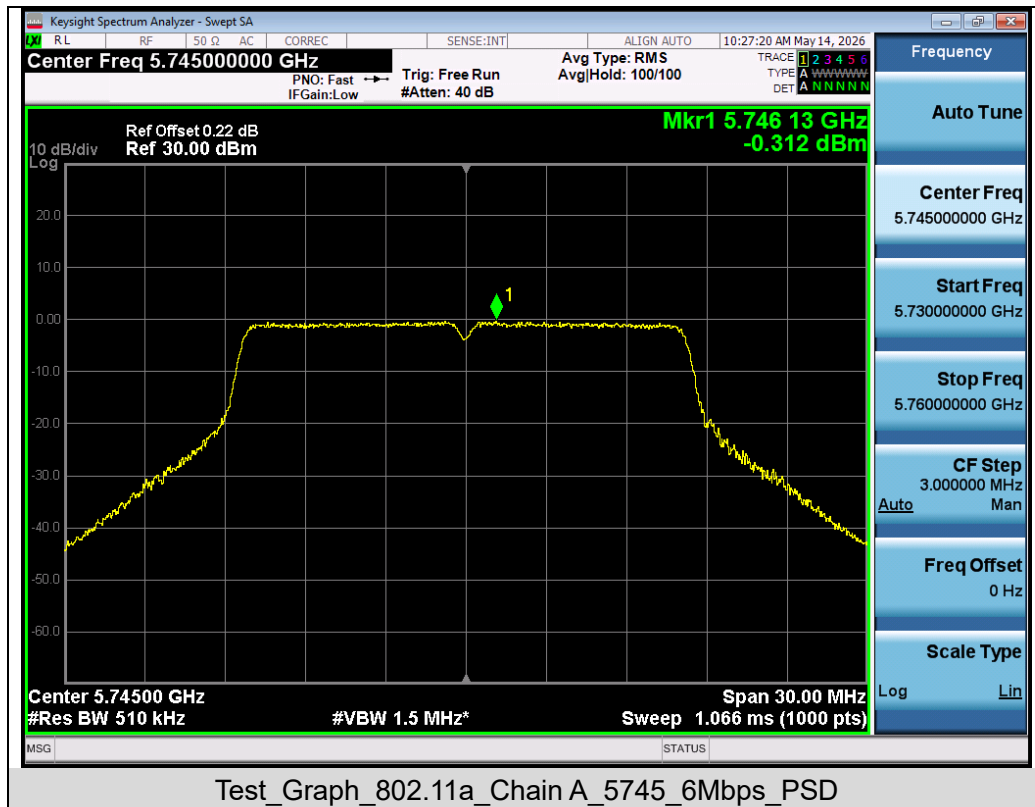


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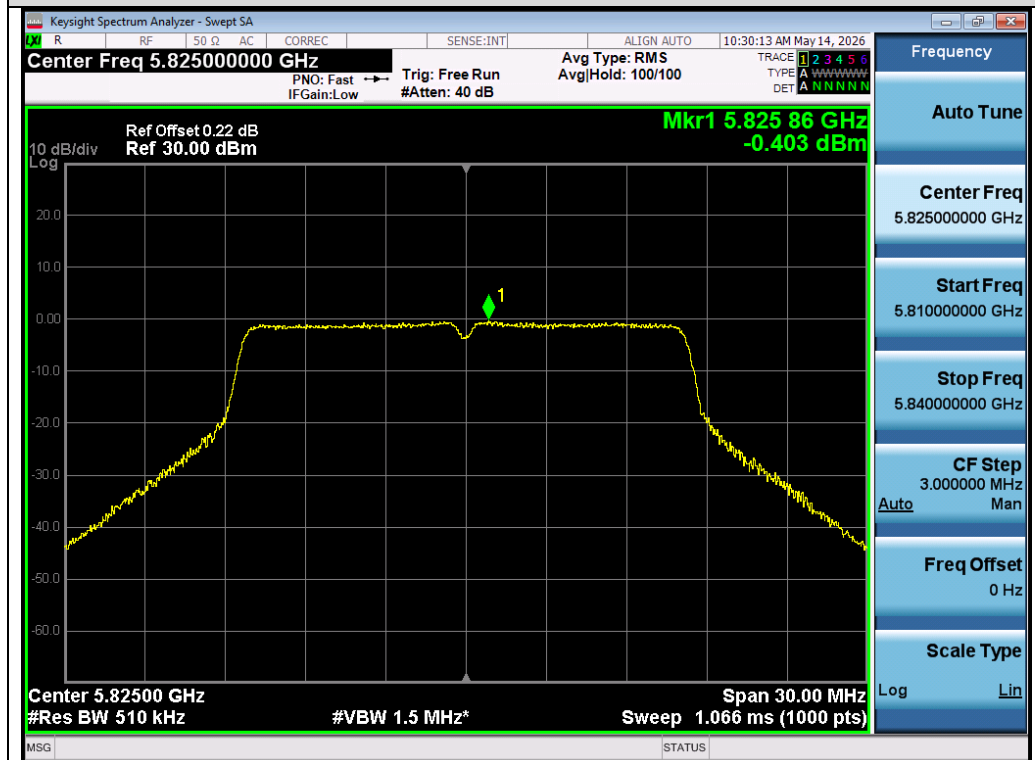
Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



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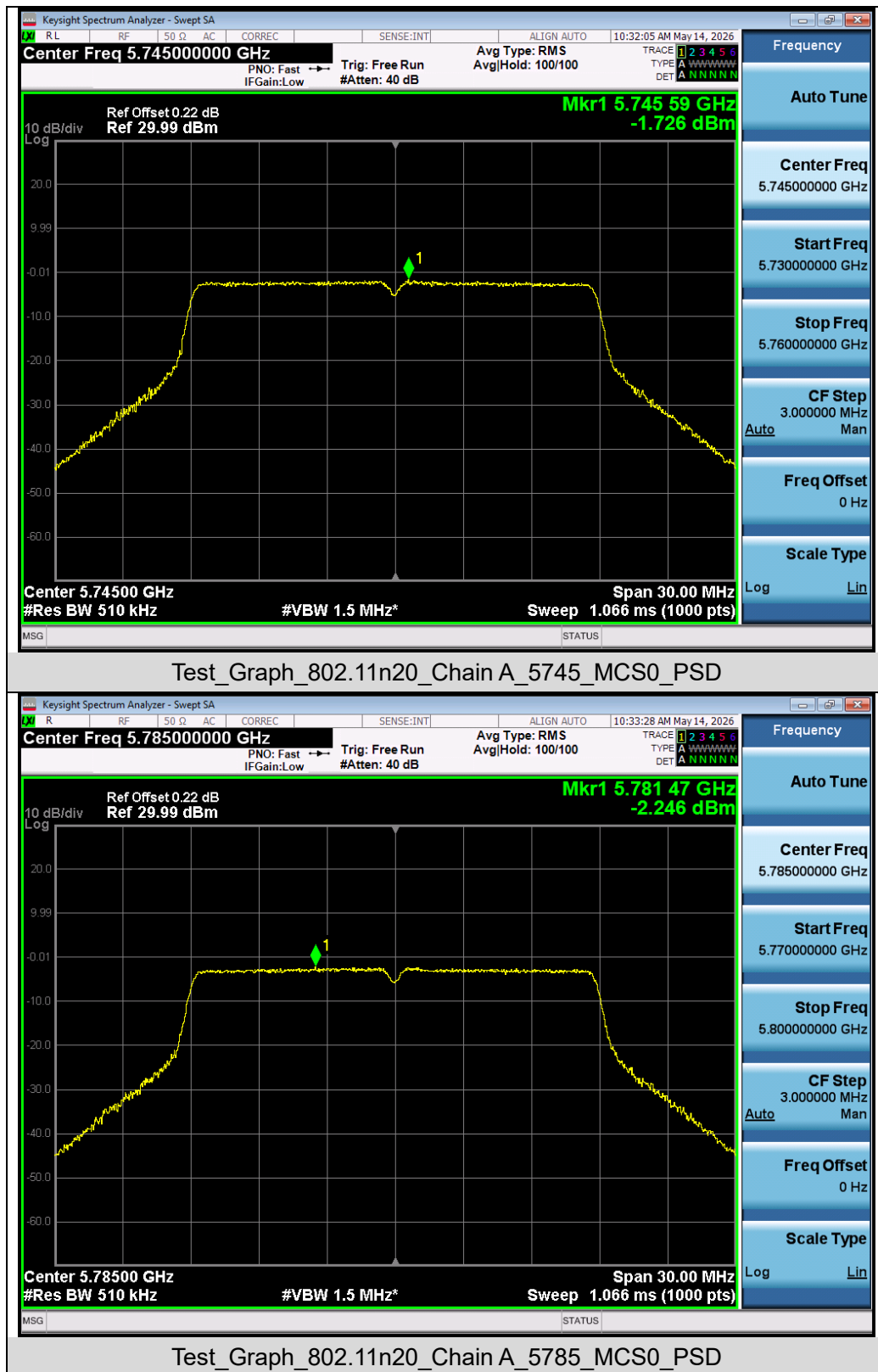
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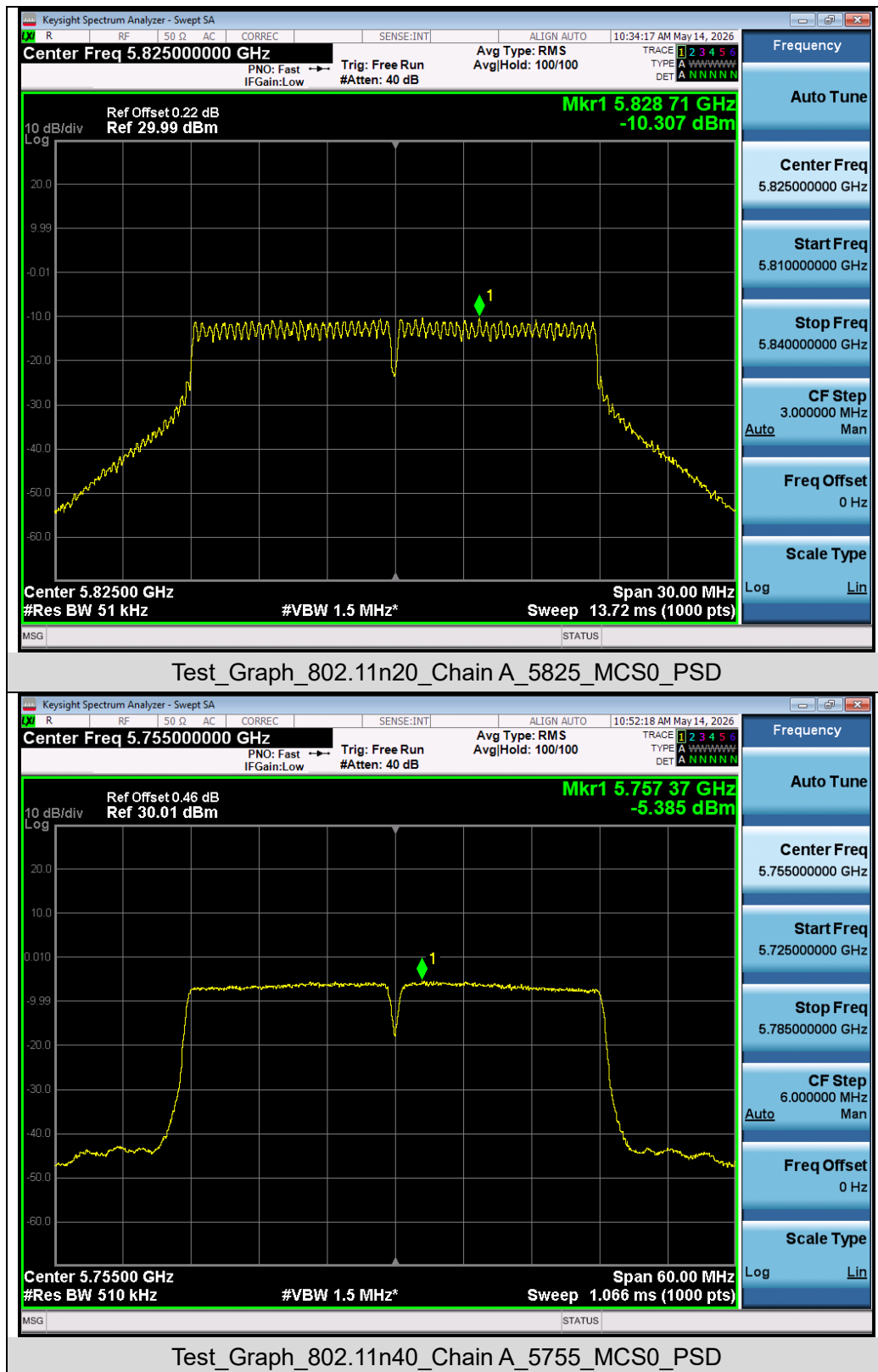
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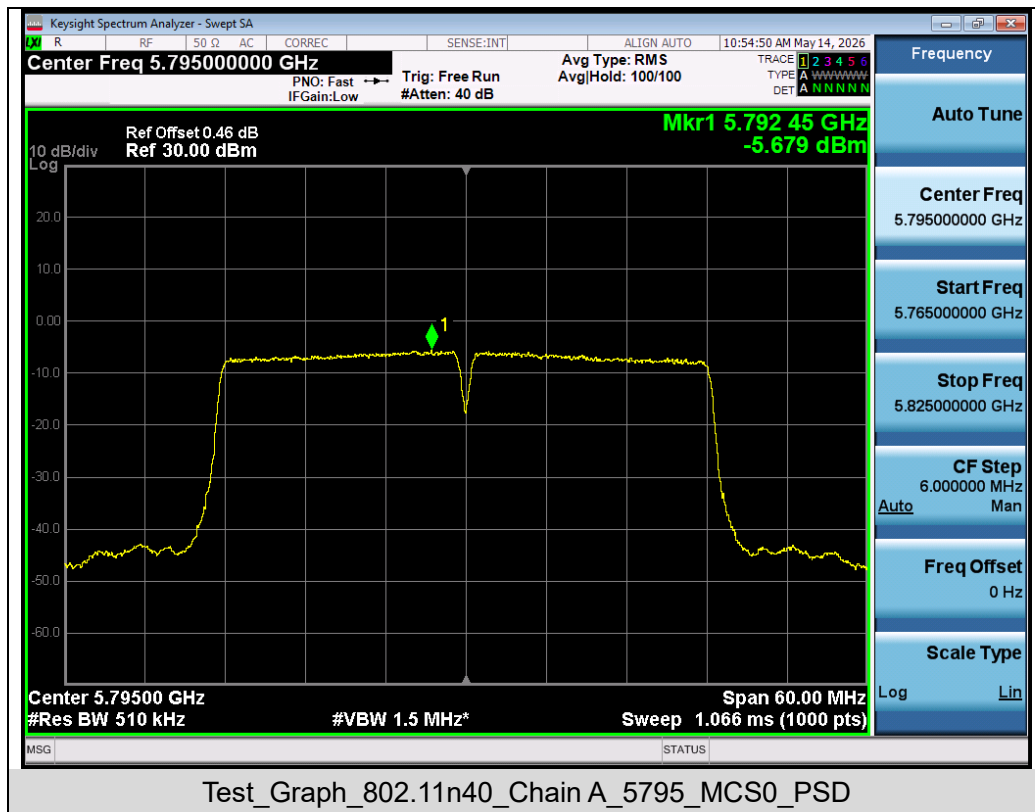


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10. Conducted Band Edge and Out-of-Band Emissions

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

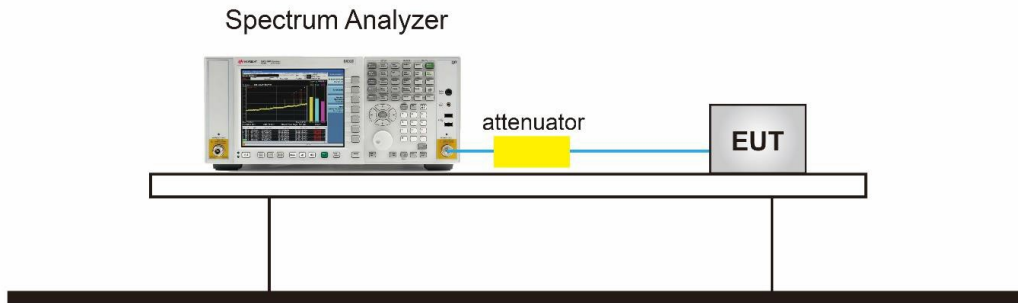
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
3. RBW = 1MHz; VBW= 3MHz; Sweep = auto; 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.
8. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
9. Input correction factor includes external cable loss, attenuator amplitude compensation and antenna gain.

The formula is:

$$\text{Input correction factor(dB)} = \text{Cable Loss(dB)} + \text{Attenuator attenuation value(dB)} + \text{antenna gain(dBi)}$$

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10.3 Measurement Setup (Block Diagram of Configuration)

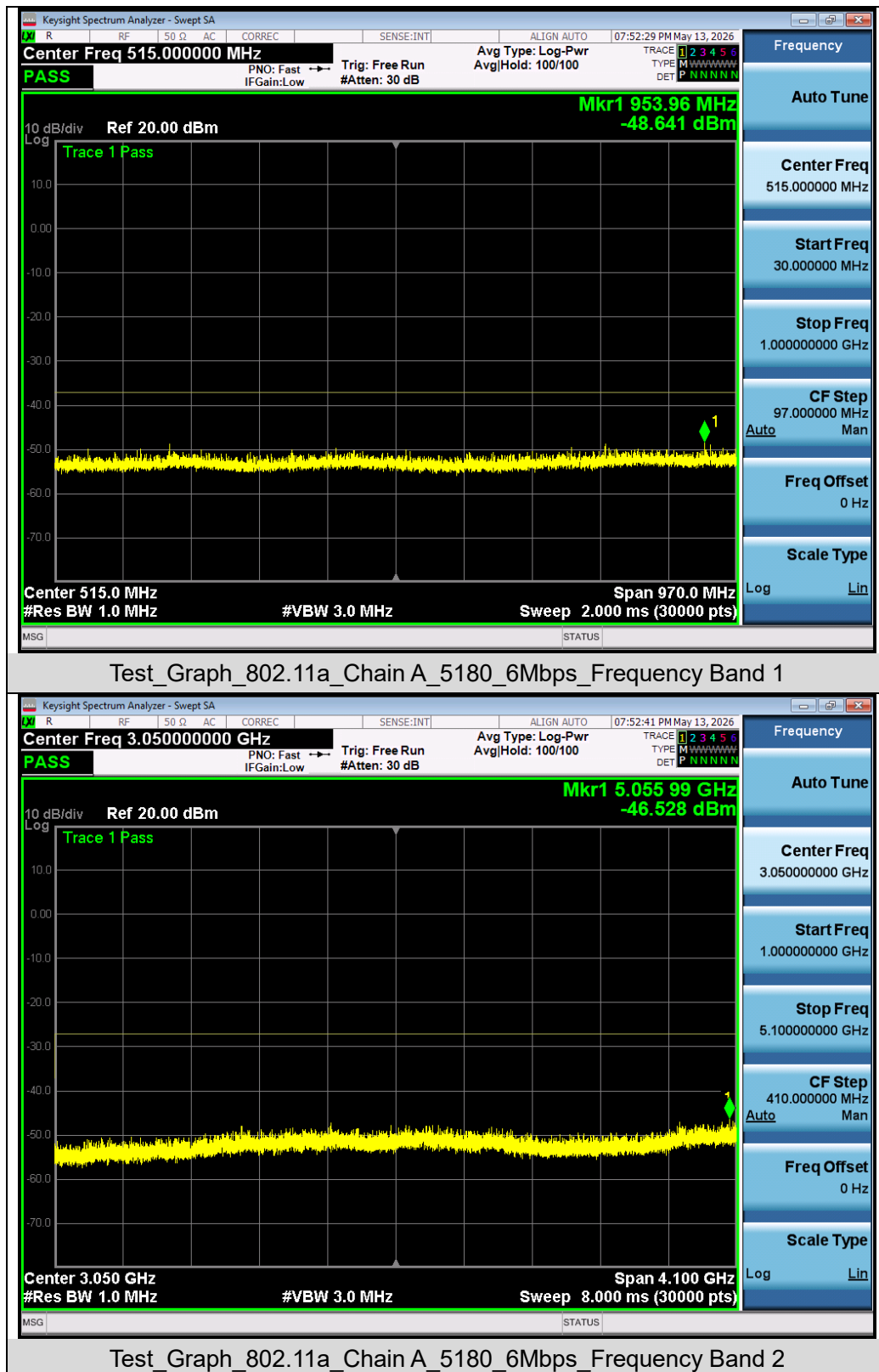


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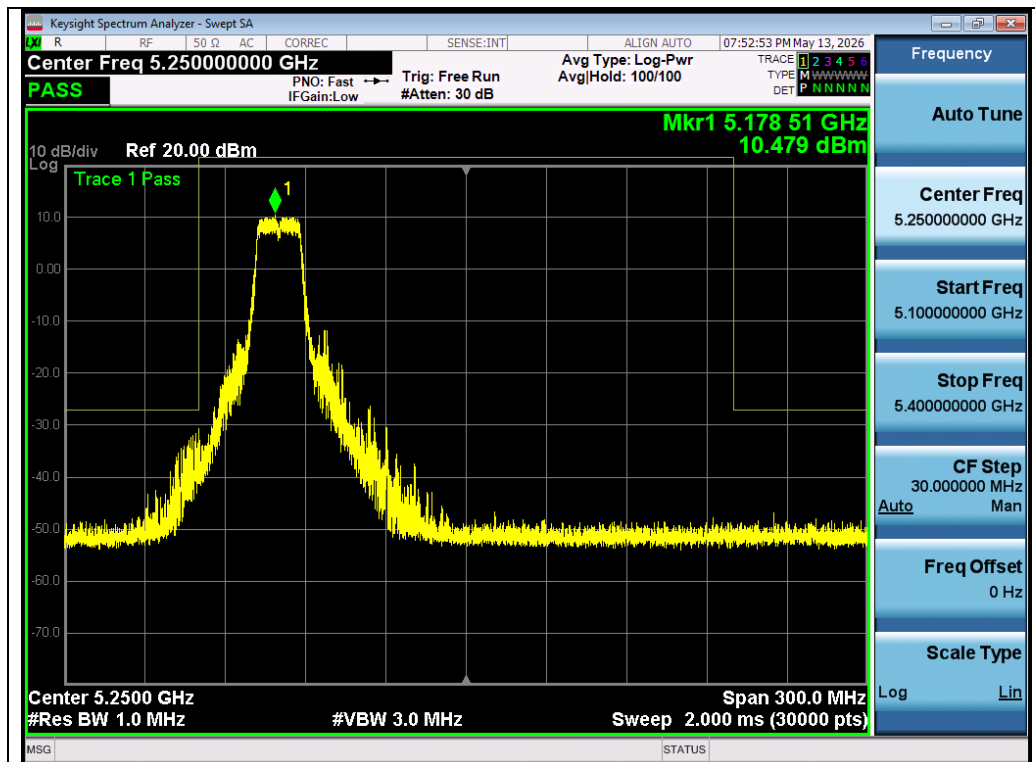
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10.4 Measurement Results

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

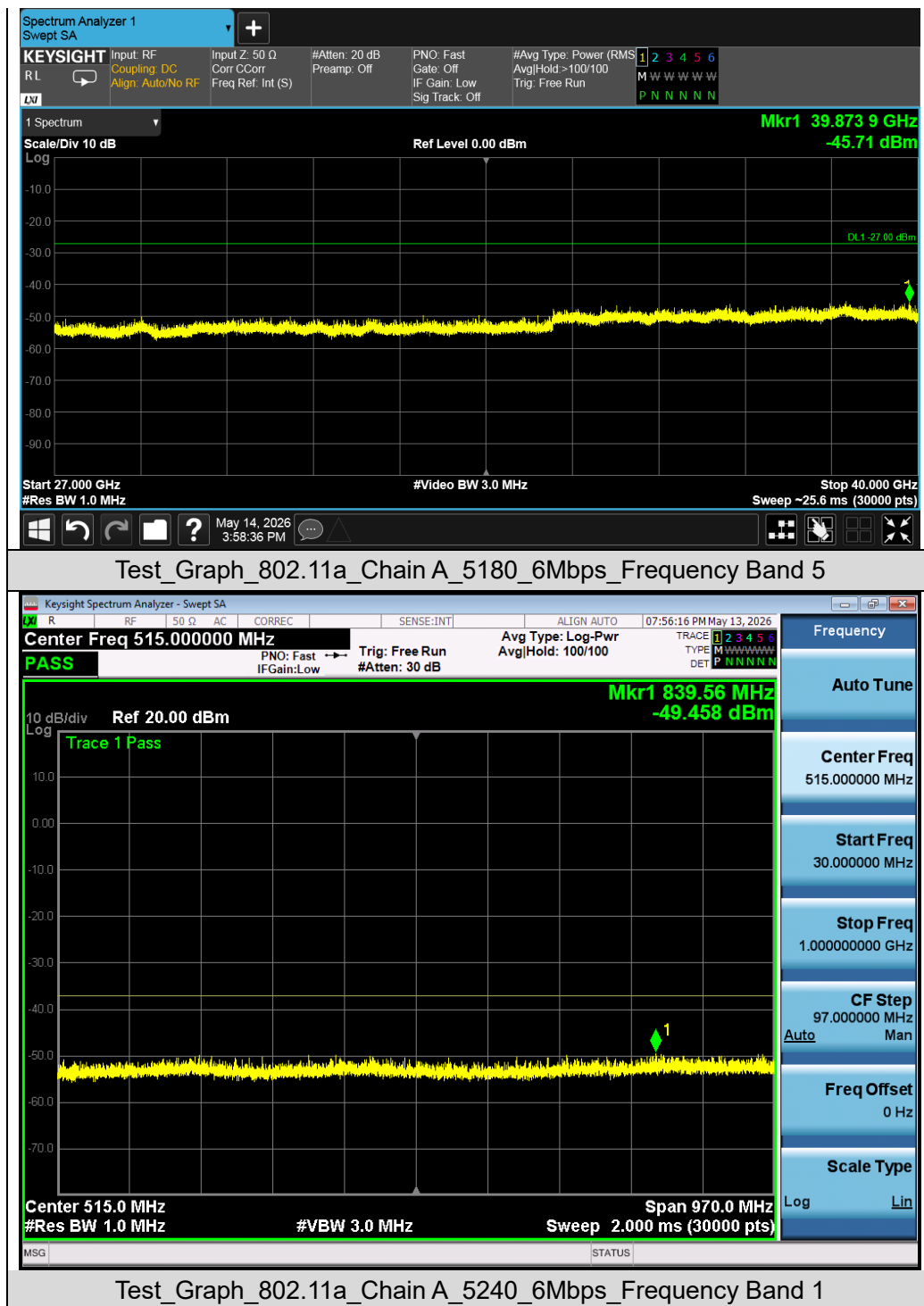


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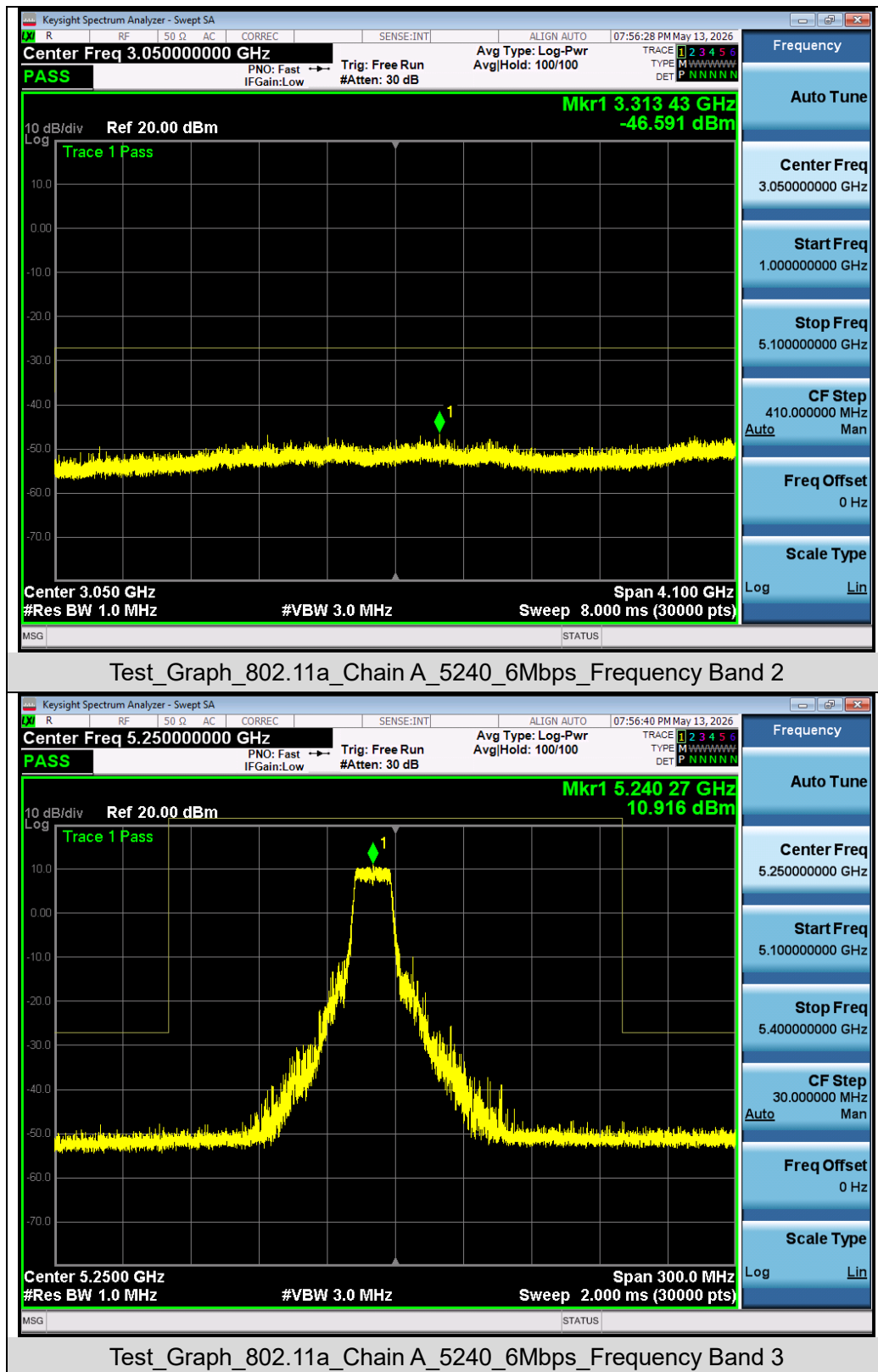
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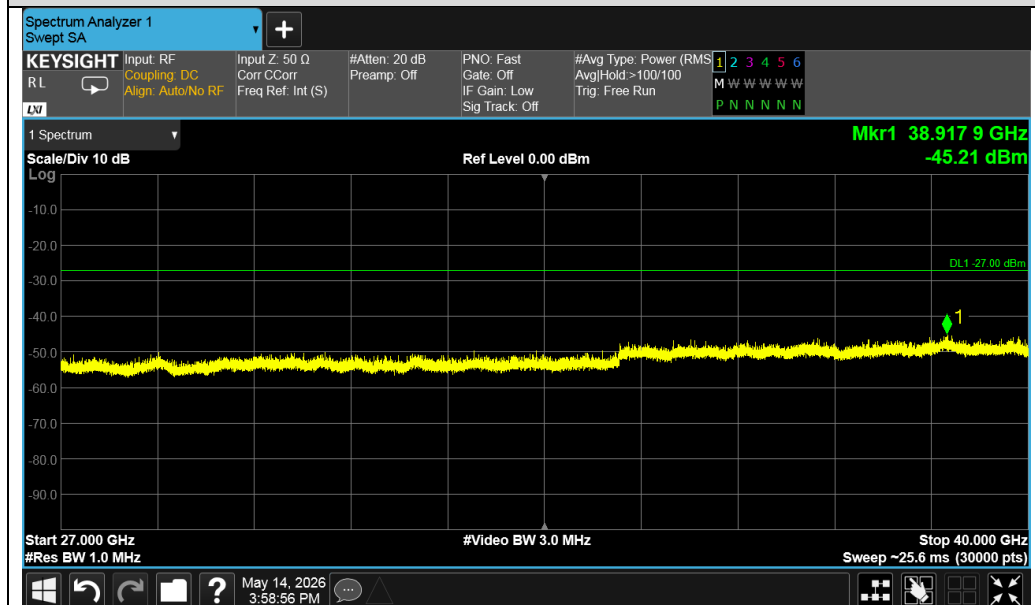


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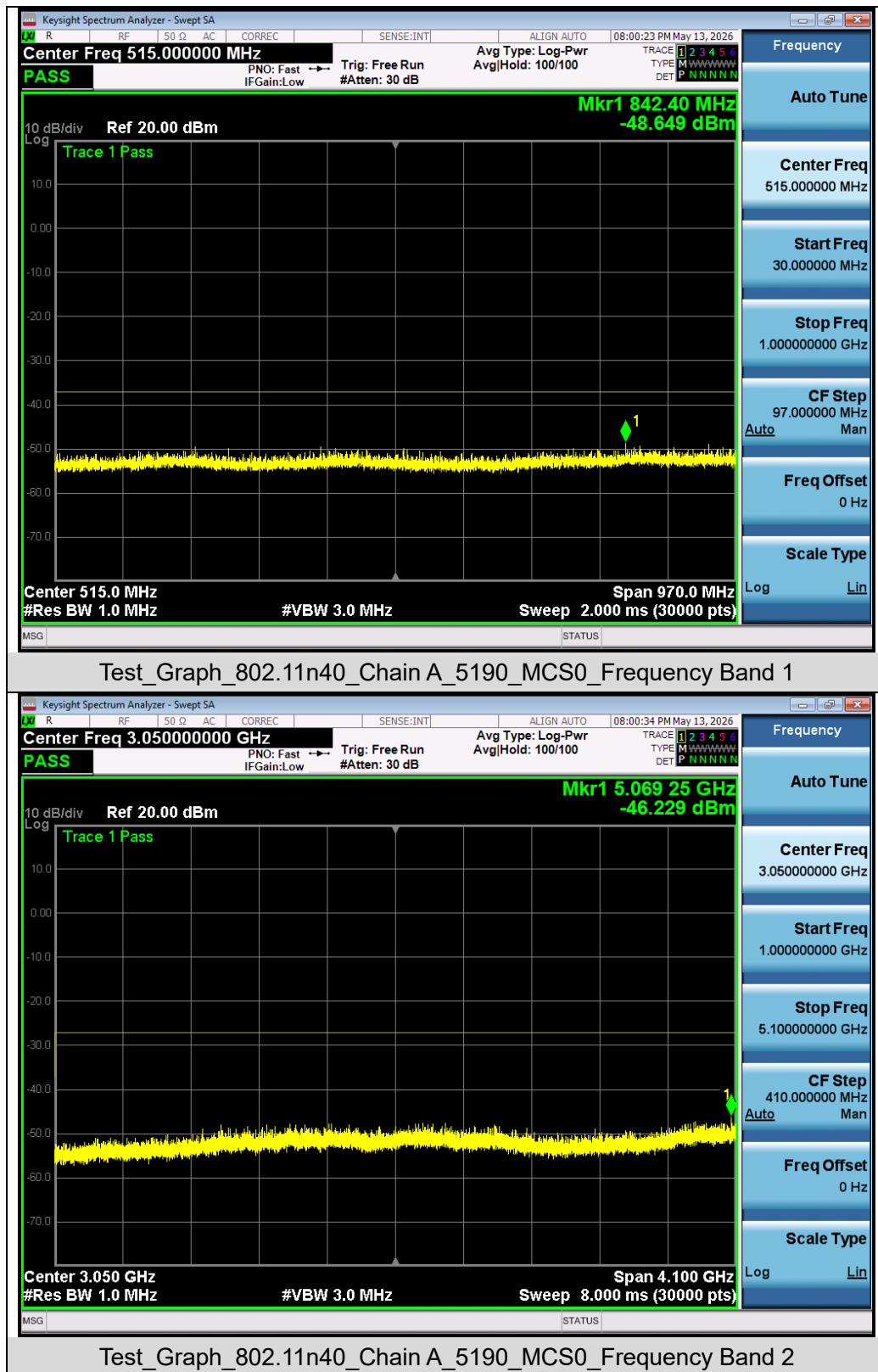
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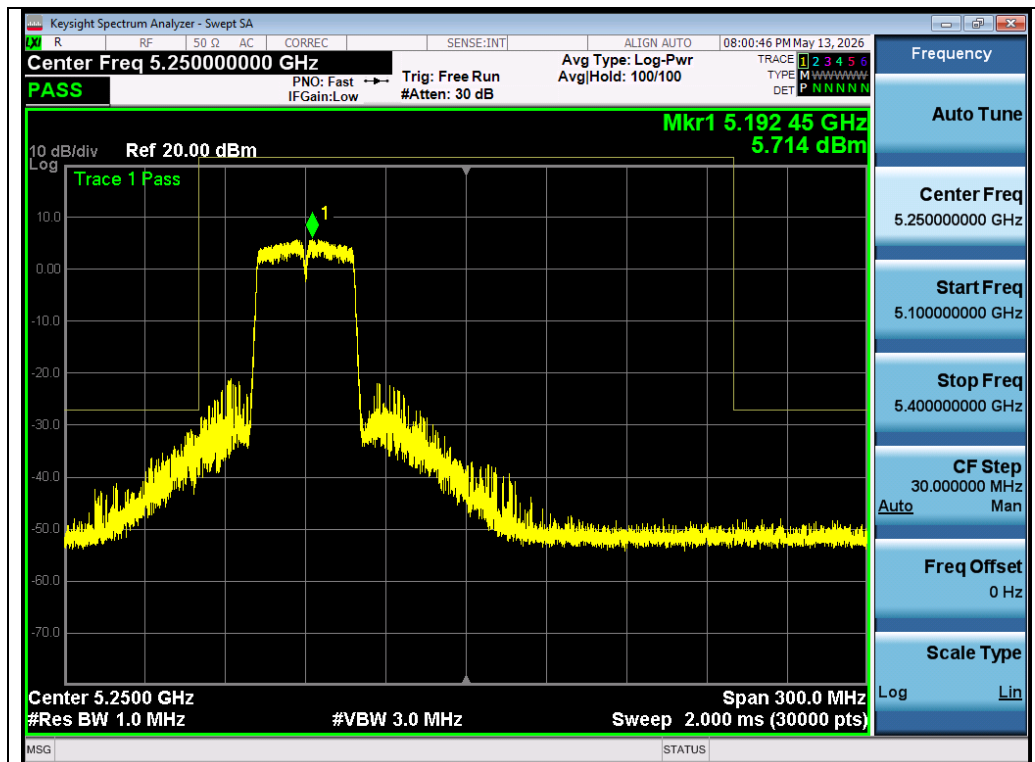
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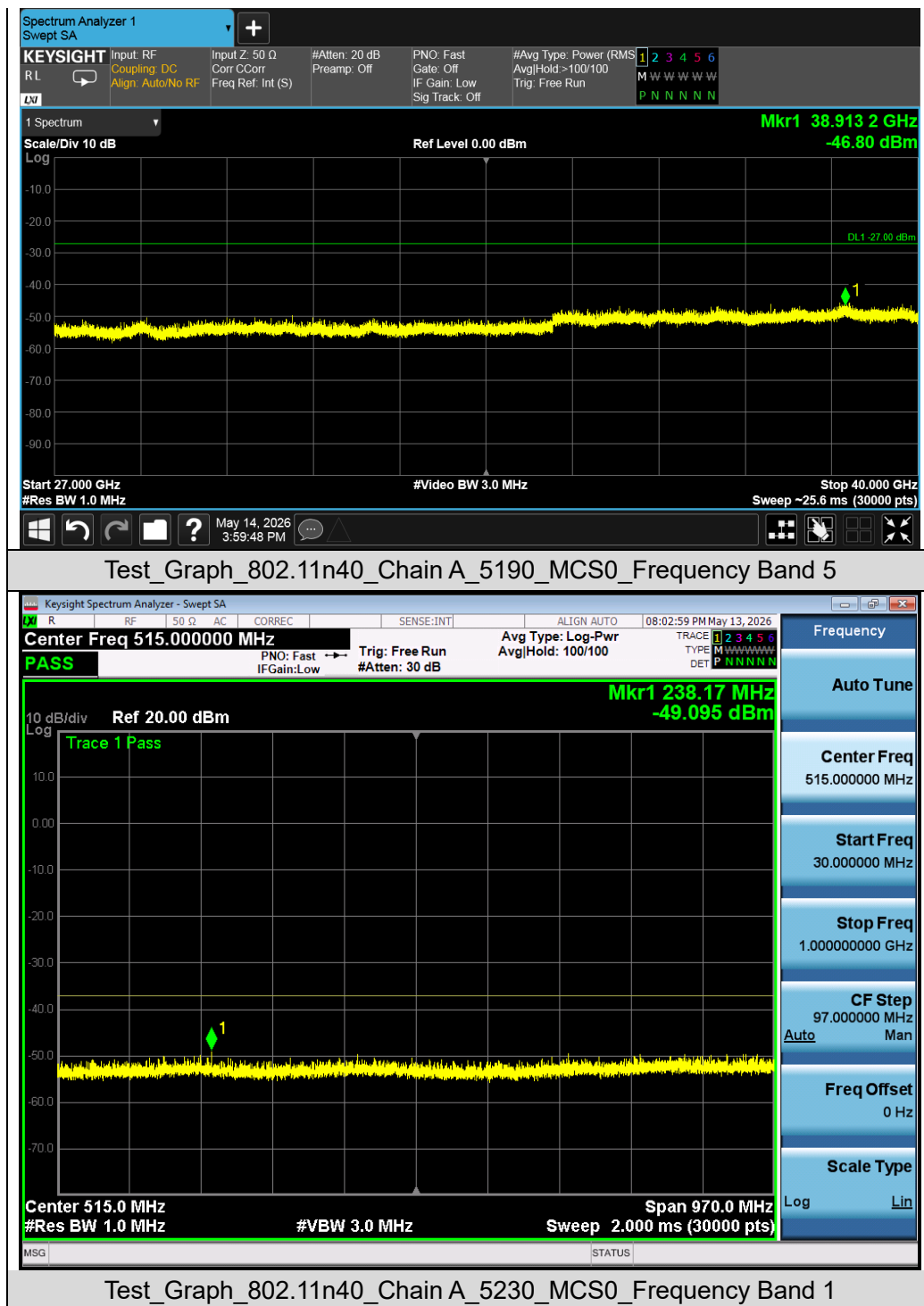
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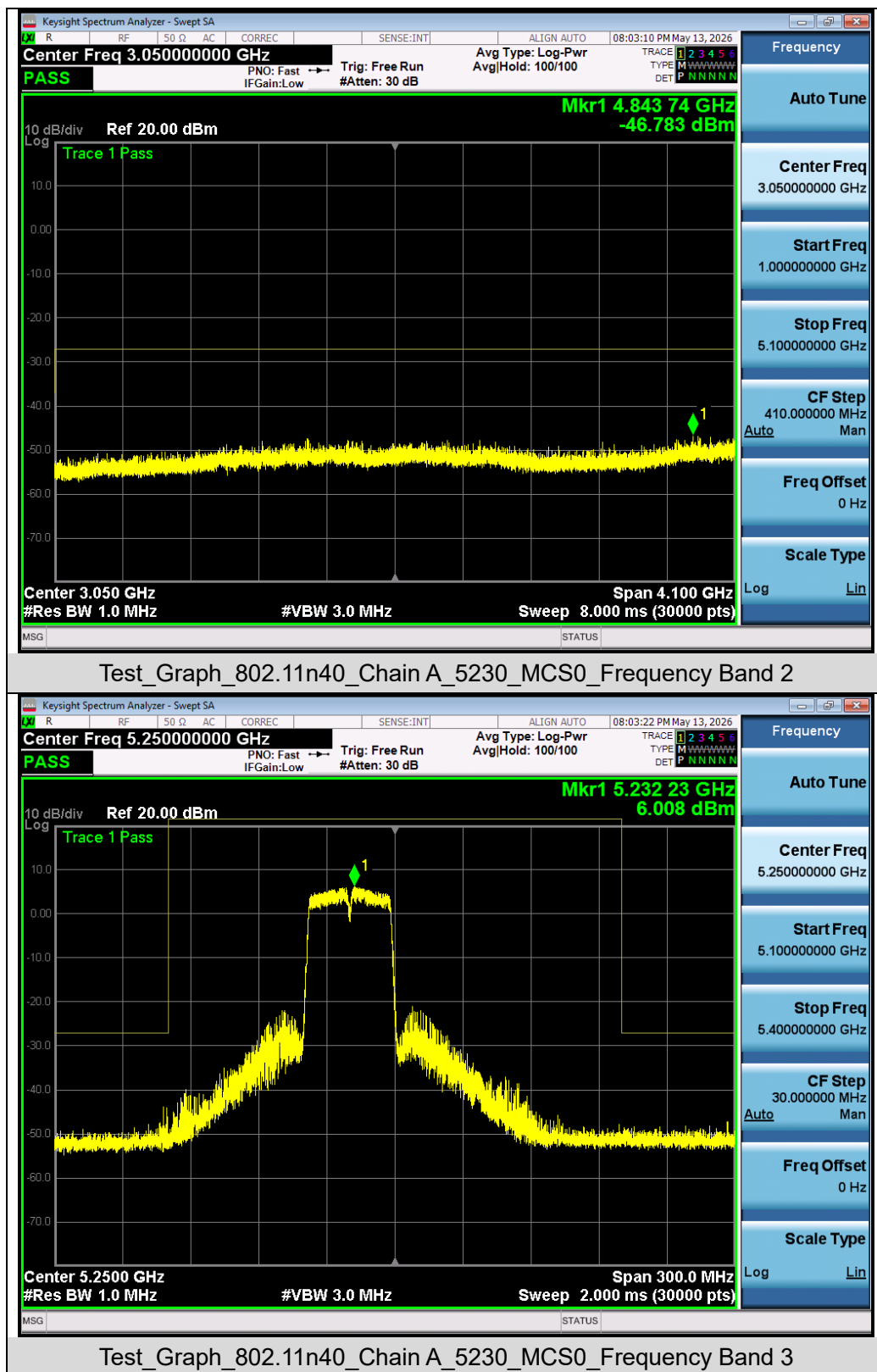
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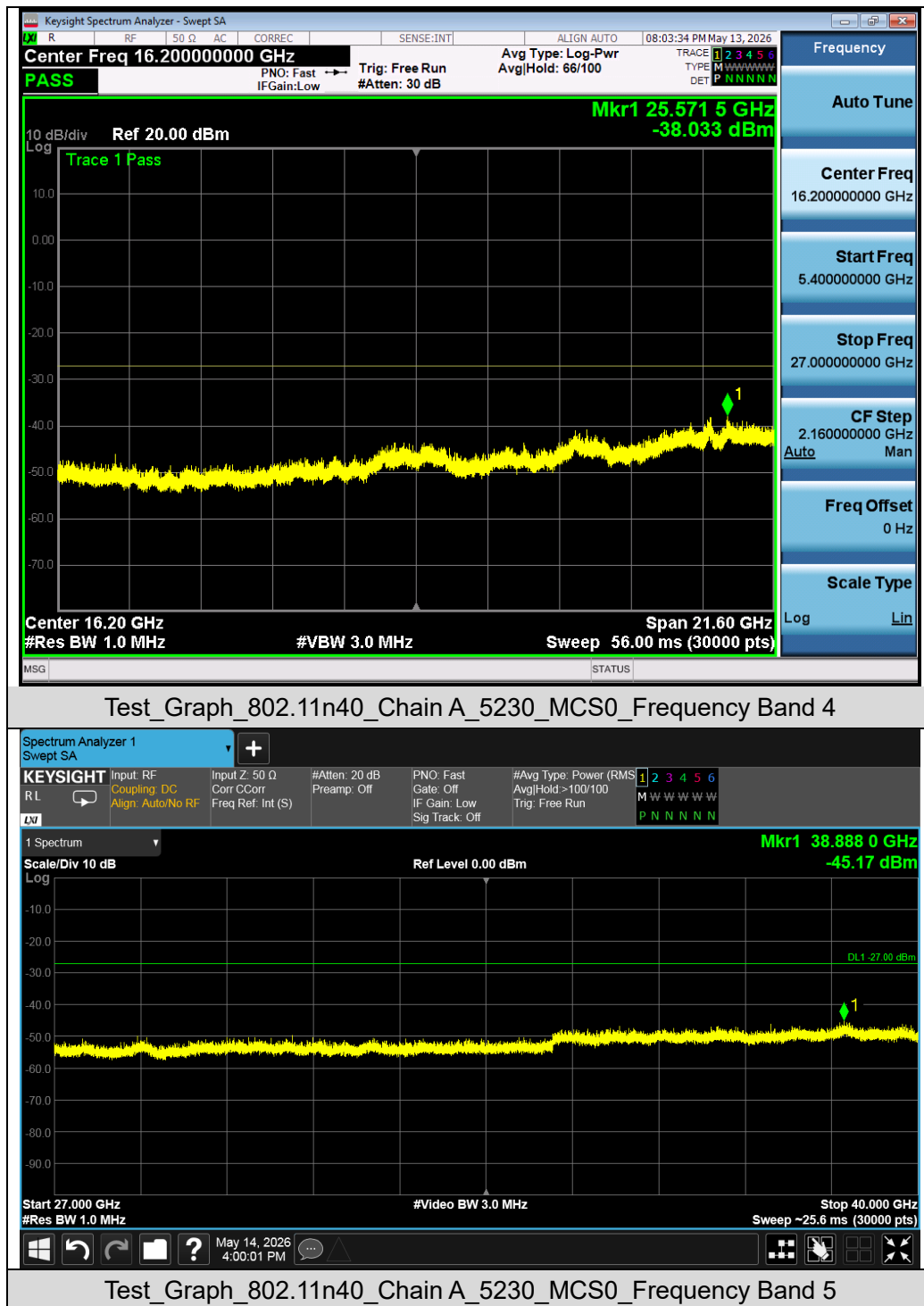
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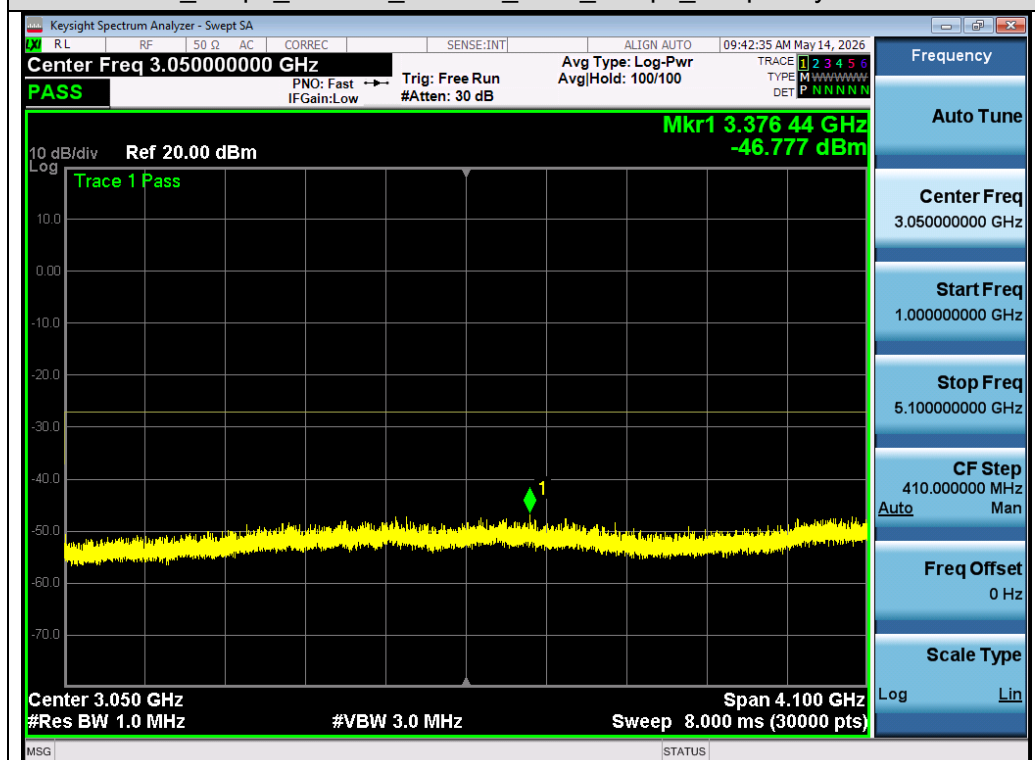


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Test Graphs of Spurious Emissions outside the 5.25-5.35 GHz band

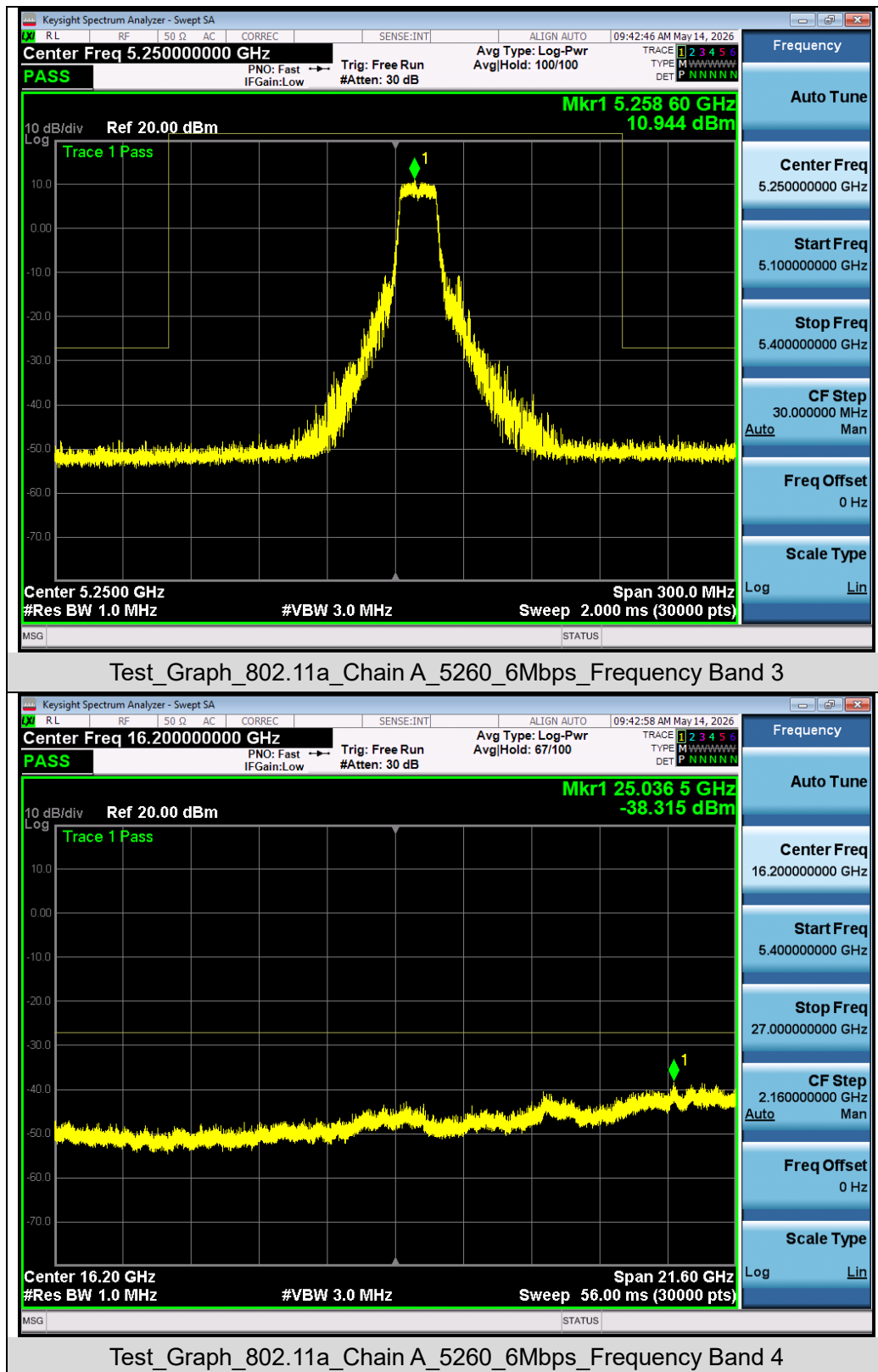


Test_Graph_802.11a_Chain A_5260_6Mbps_Frequency Band 1



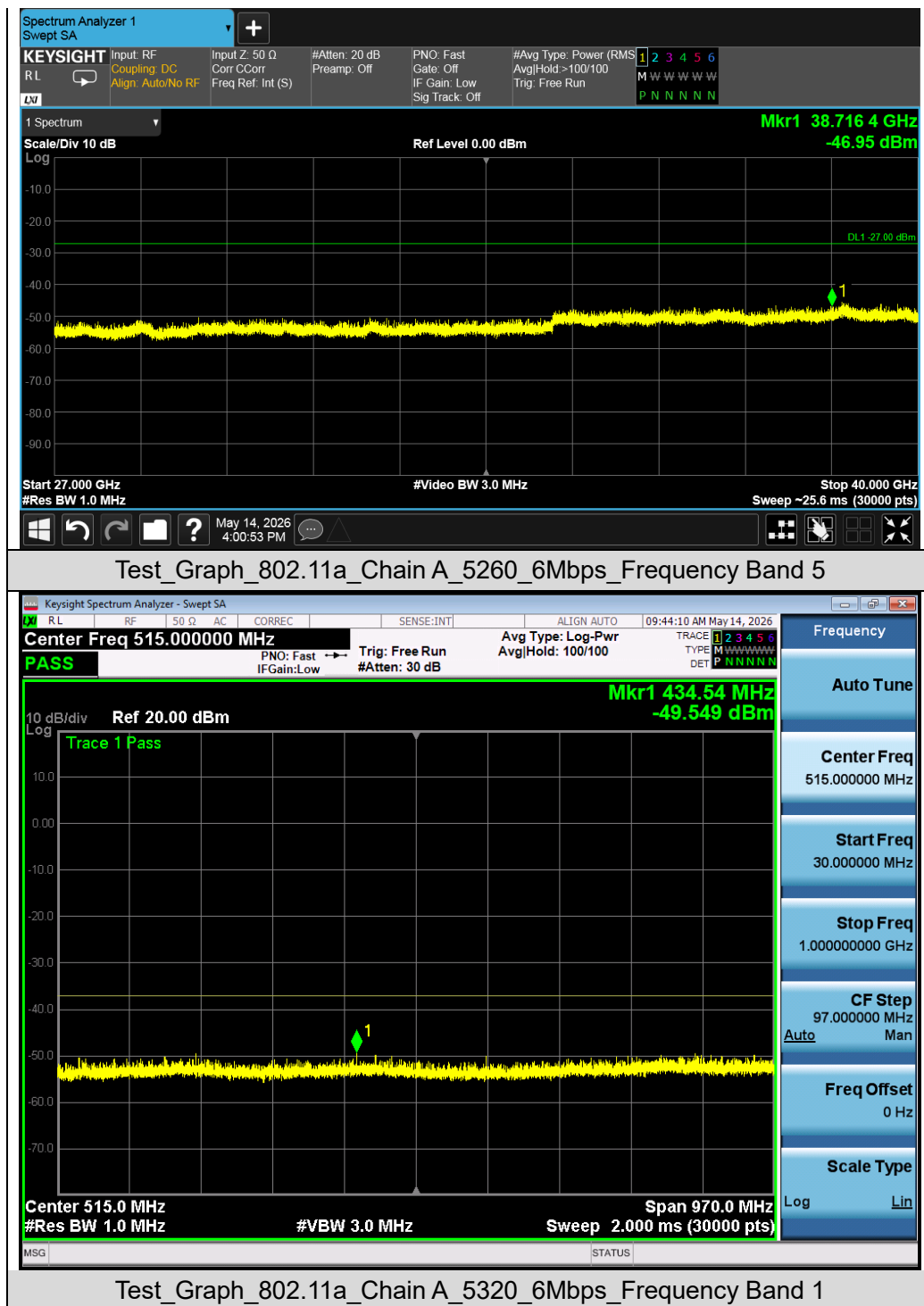
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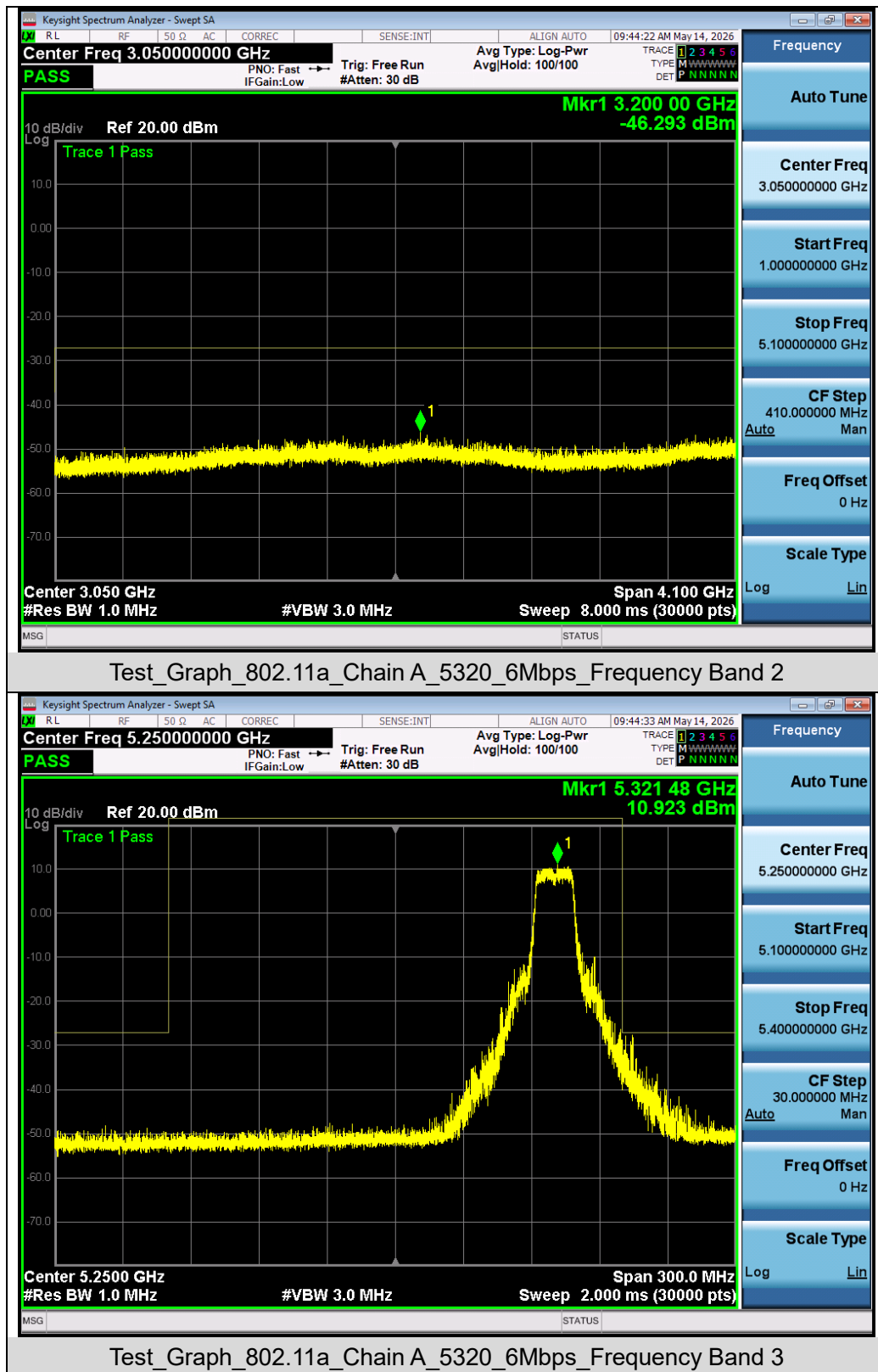
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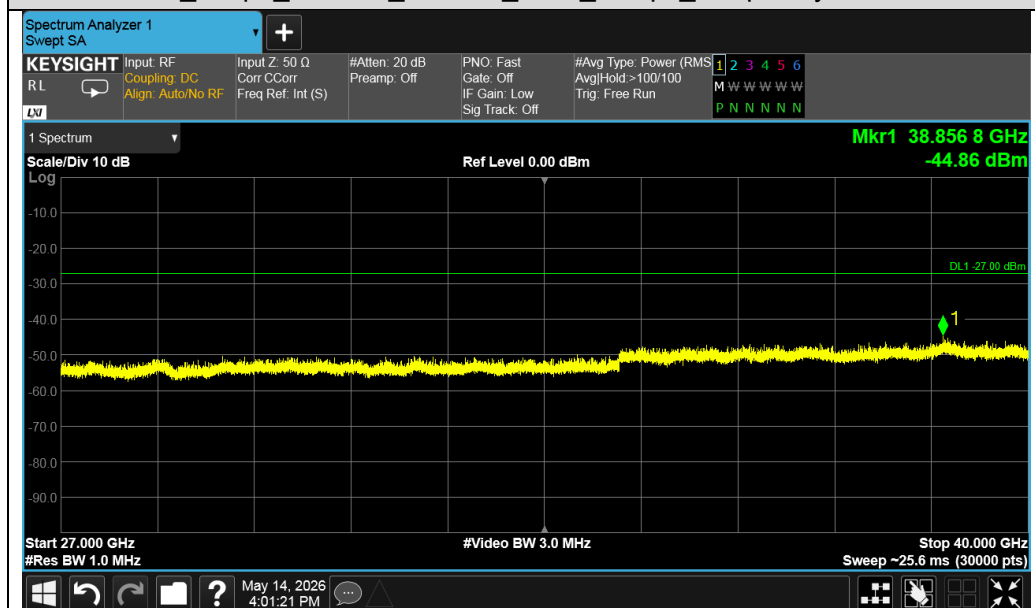


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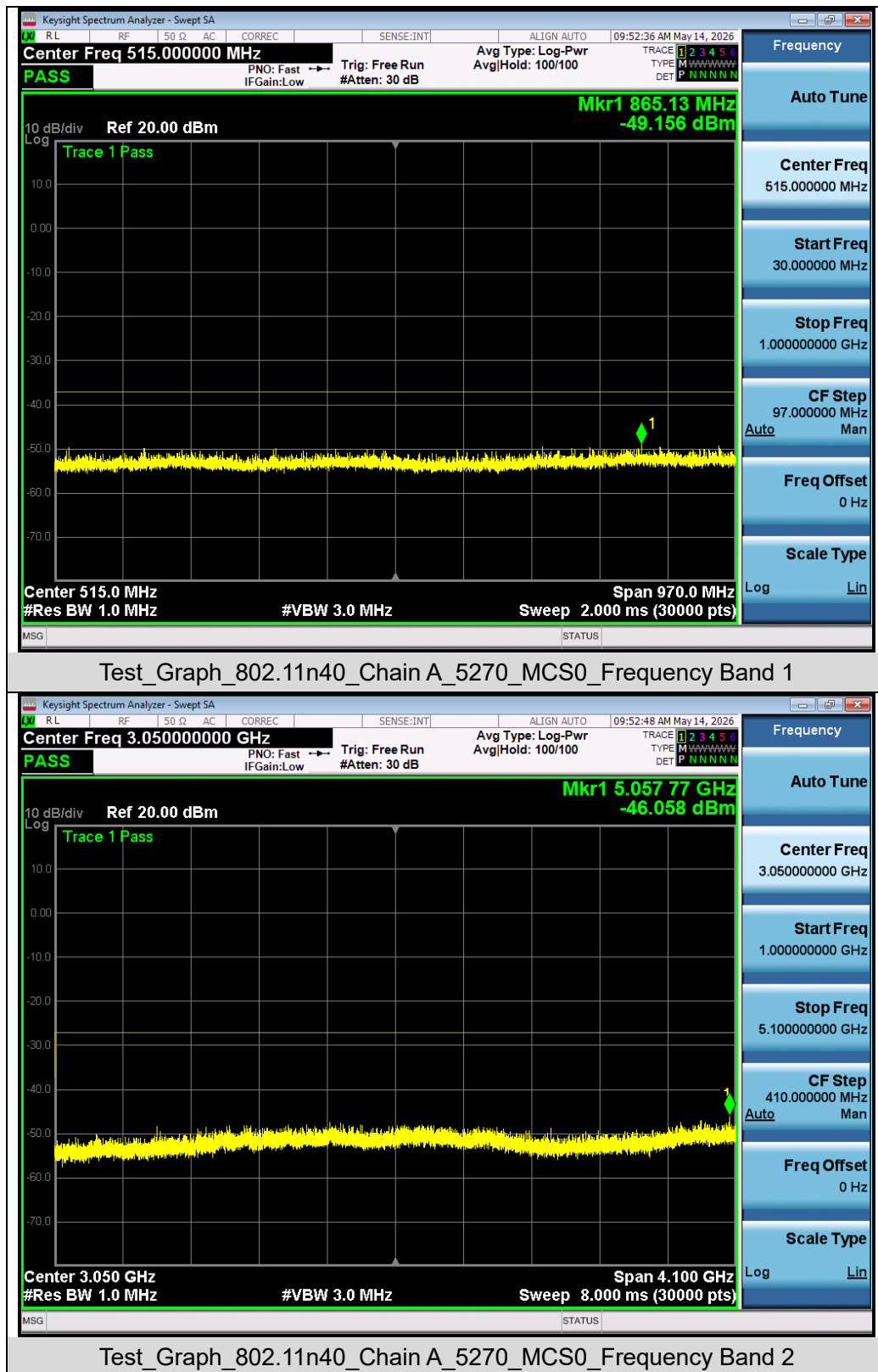
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Test_Graph_802.11a_Chain A_5320_6Mbps_Frequency Band 5

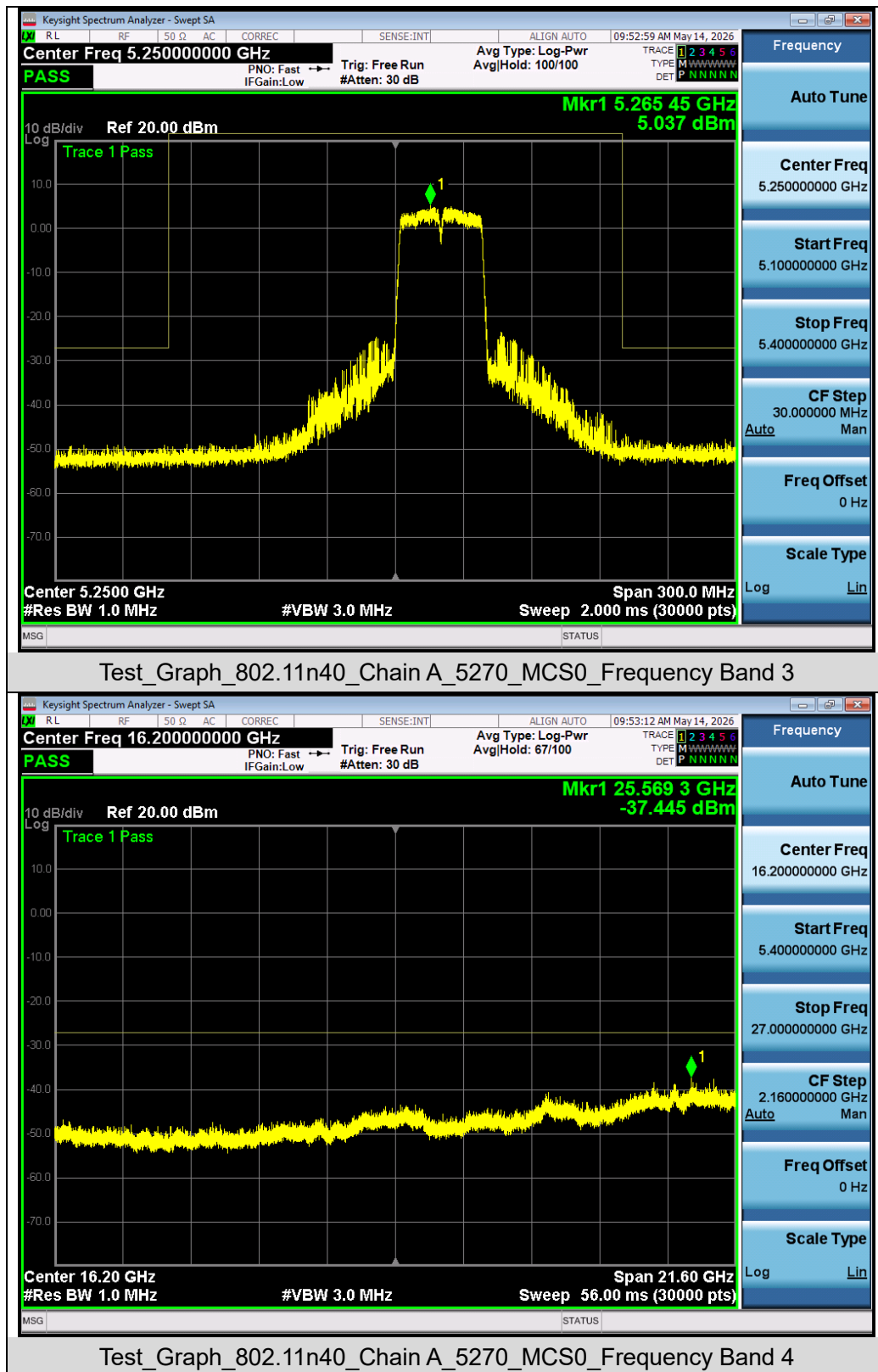
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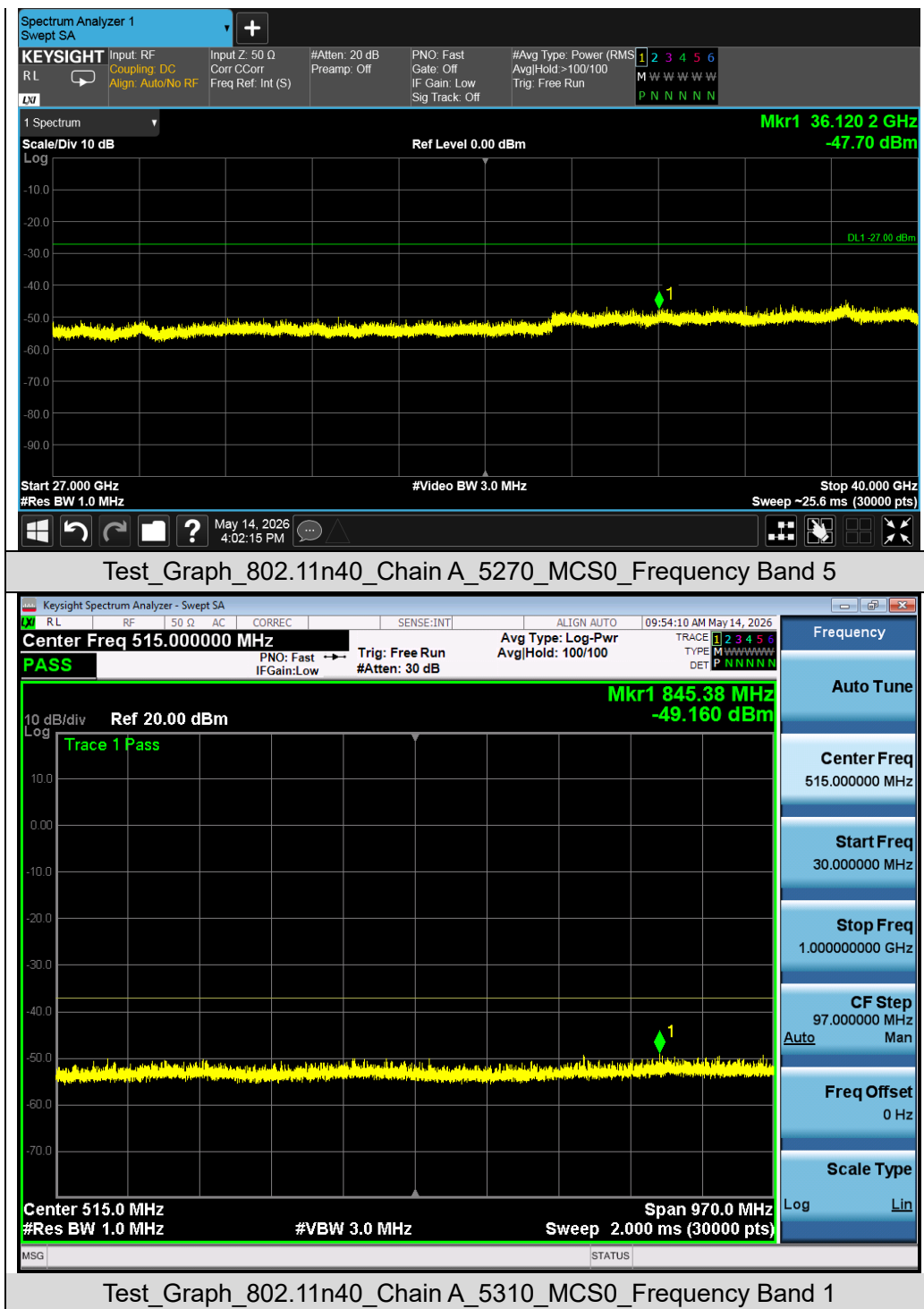
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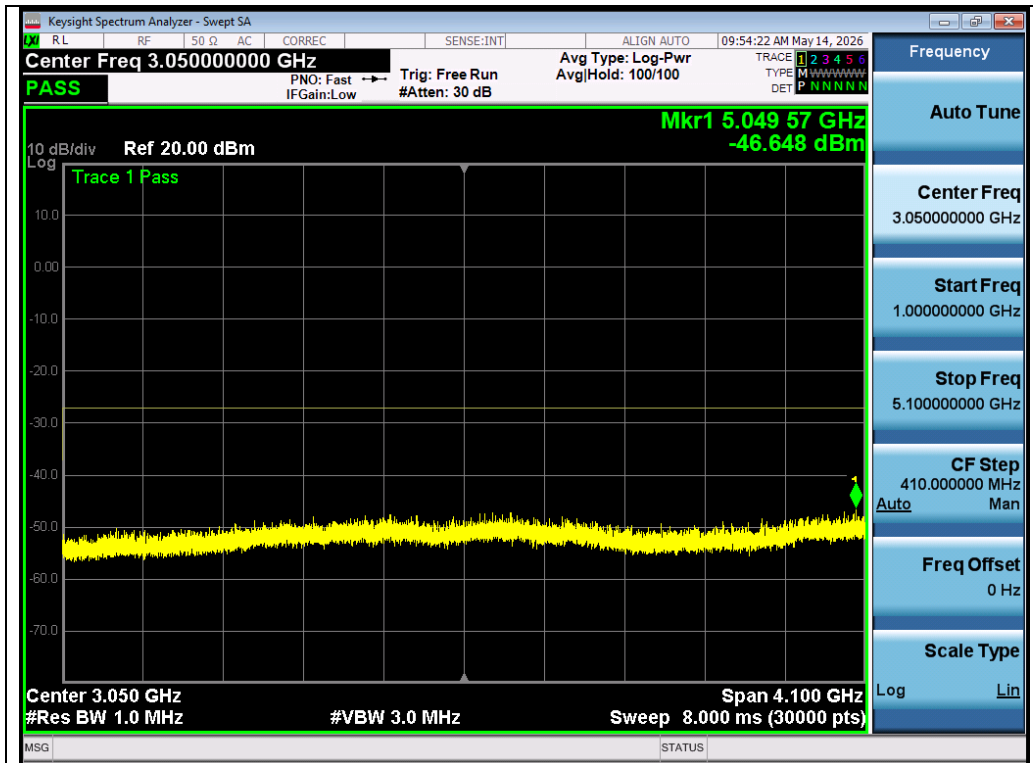


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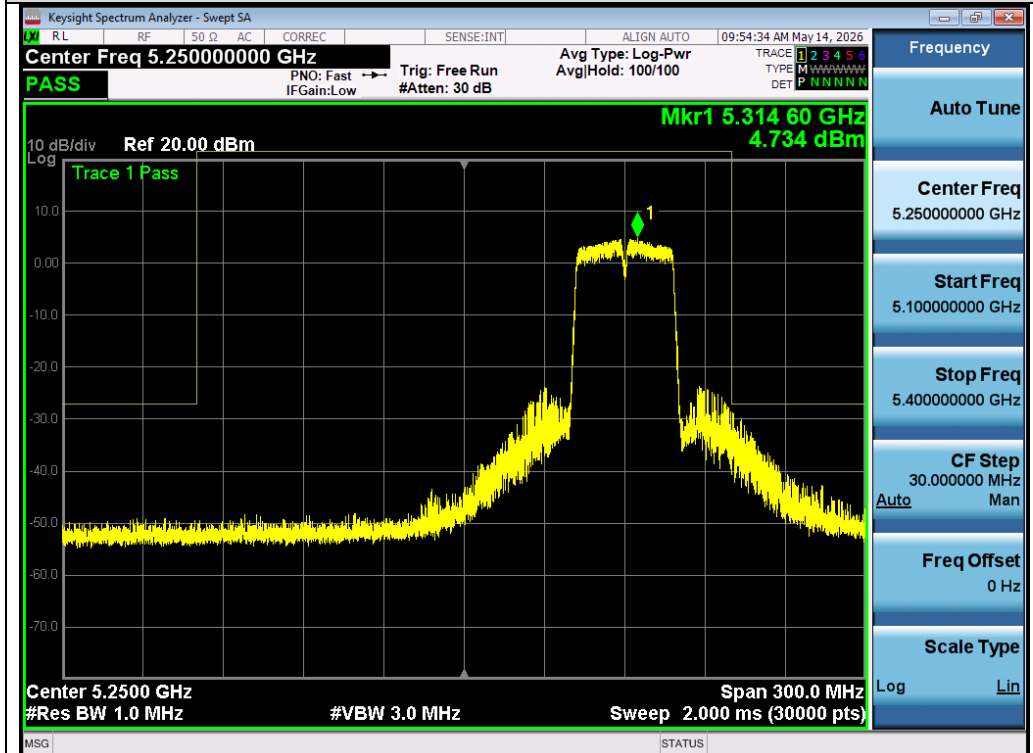
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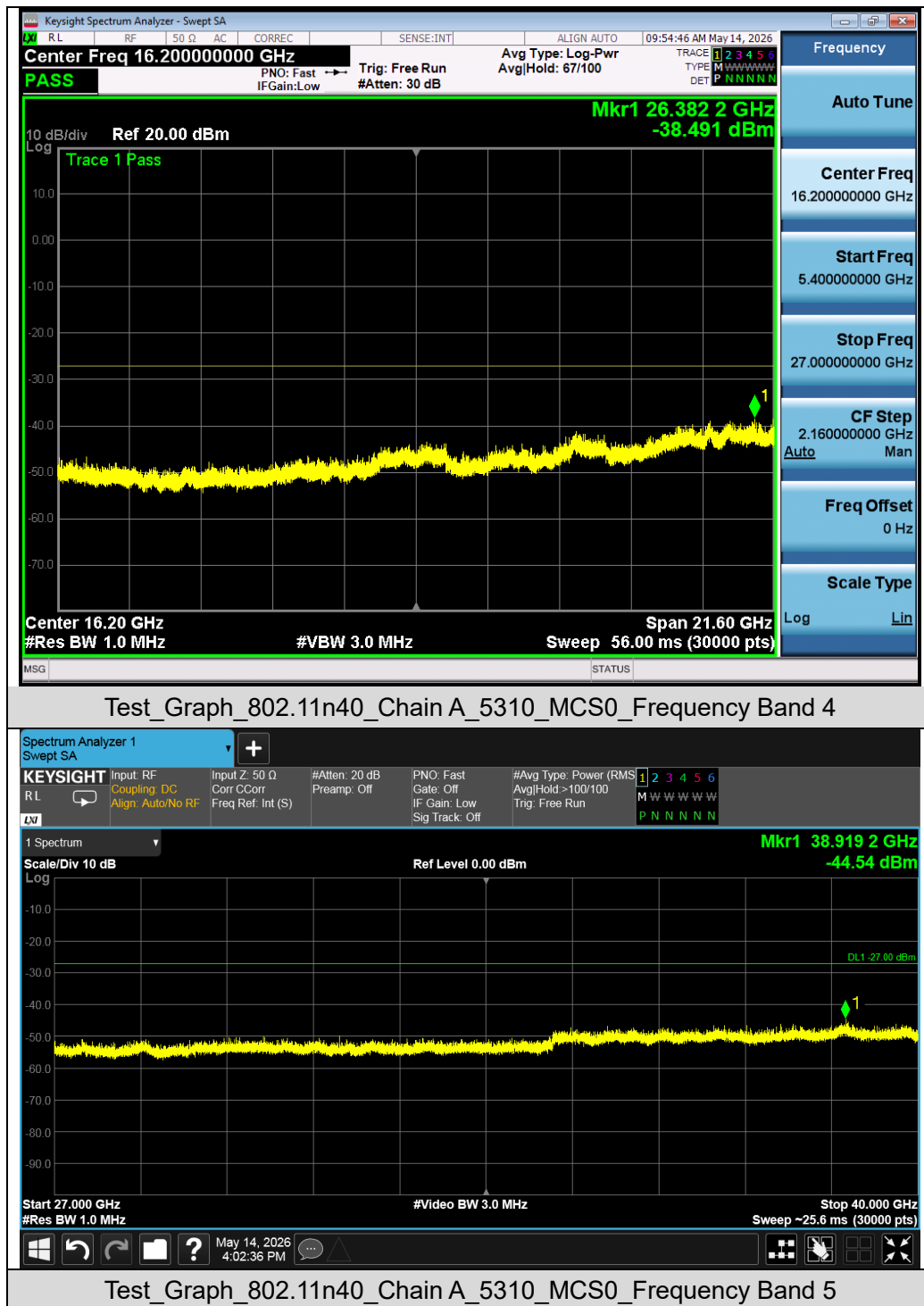


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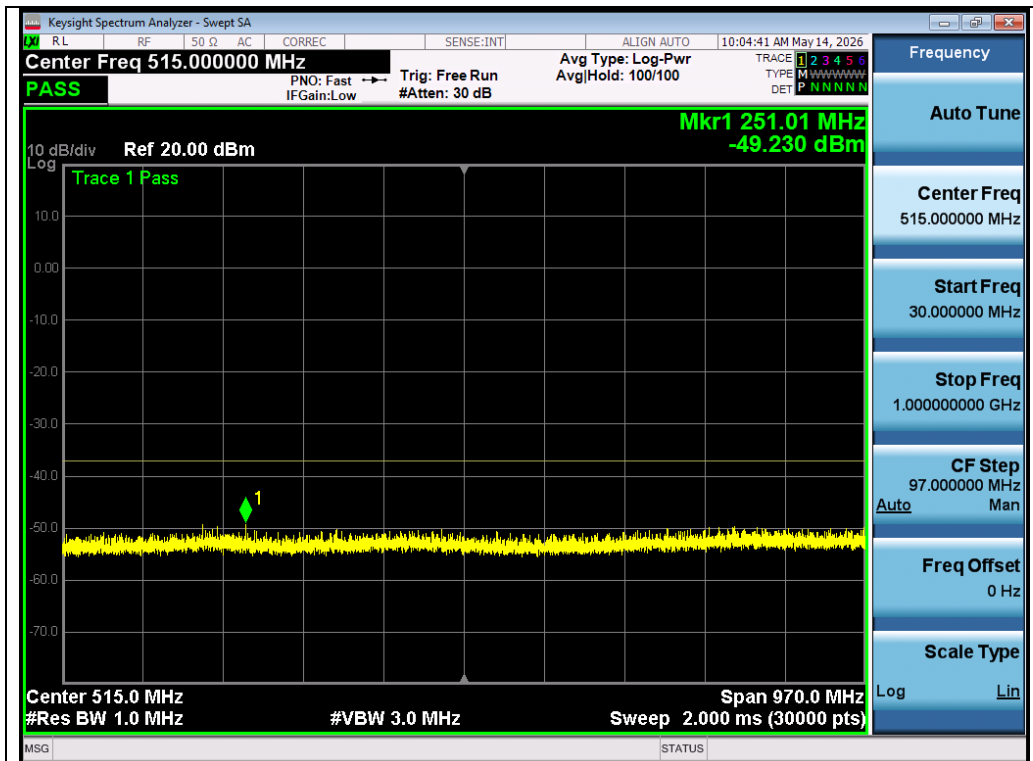
Test_Graph_802.11n40_Chain A_5310_MCS0_Frequency Band 3

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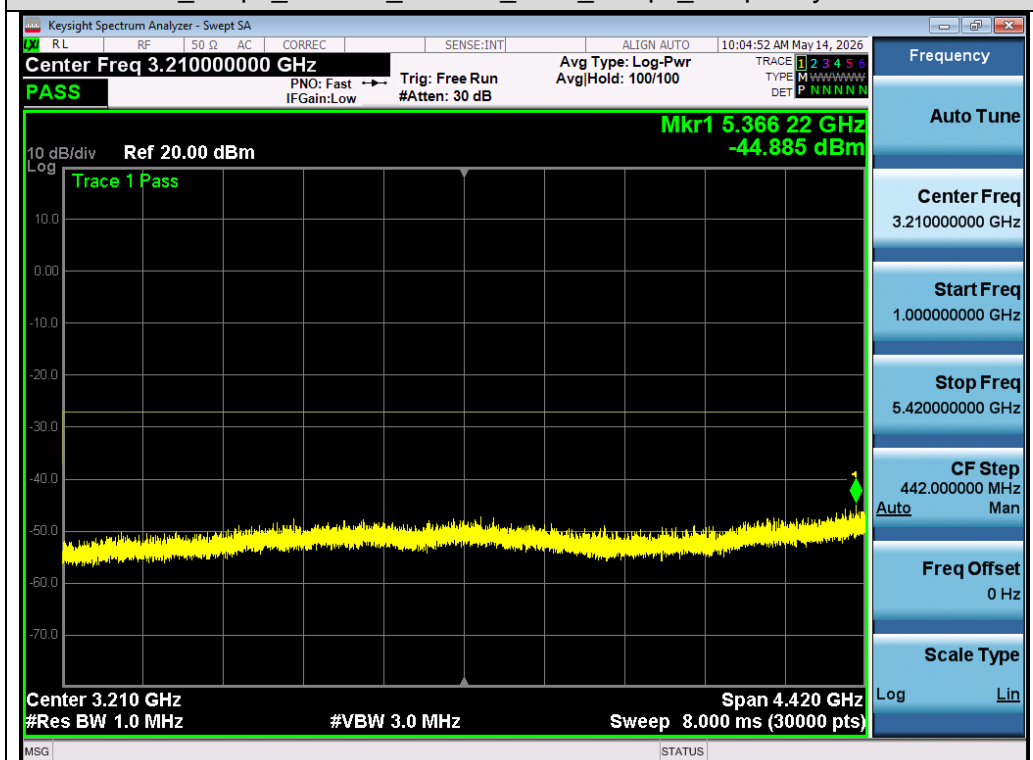


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Test Graphs of Spurious Emissions outside of the 5.470-5.725 GHz band



Test_Graph_802.11a_Chain A_5500_6Mbps_Frequency Band 1



Test_Graph_802.11a_Chain A_5500_6Mbps_Frequency Band 2

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