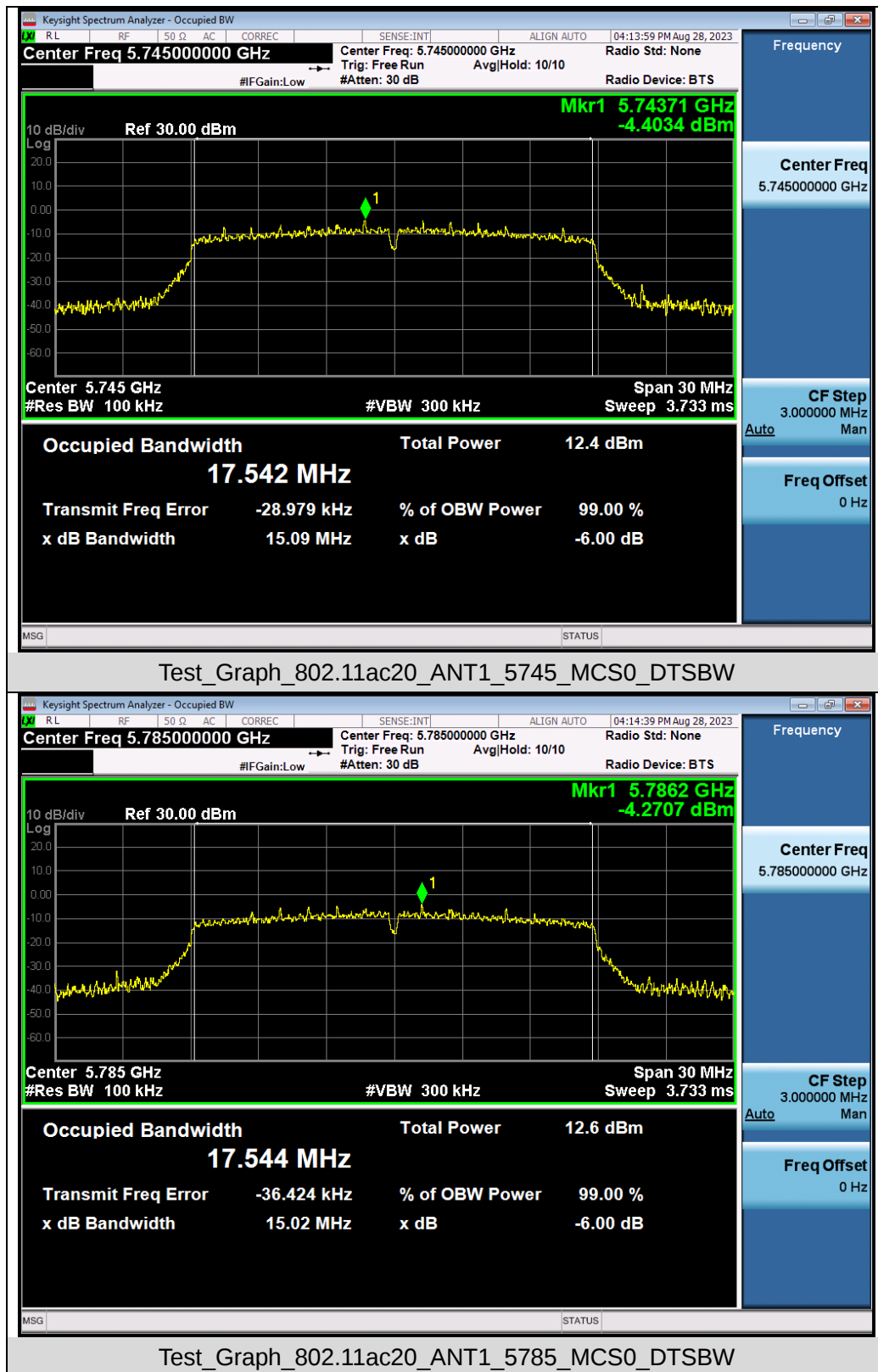
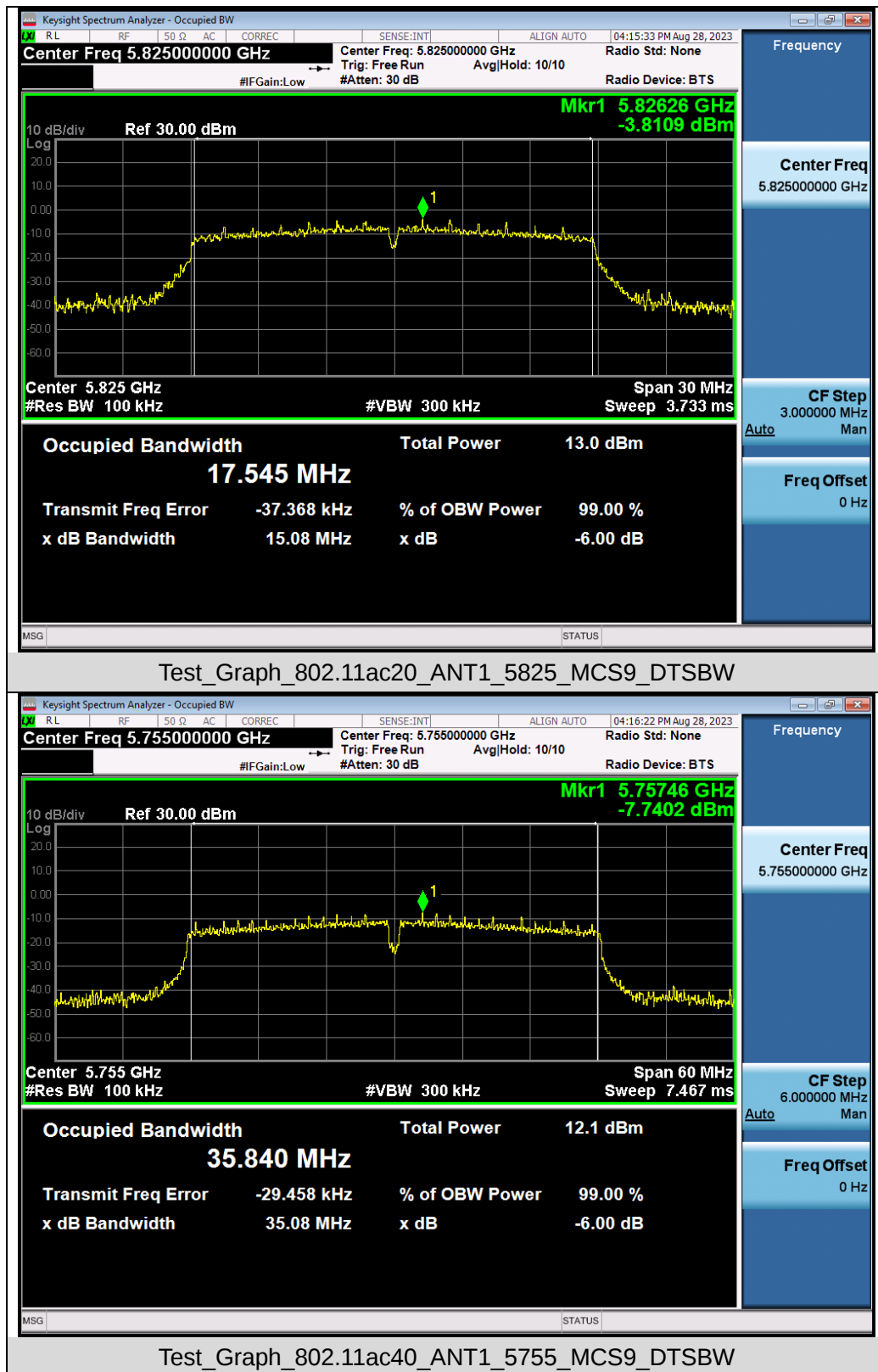


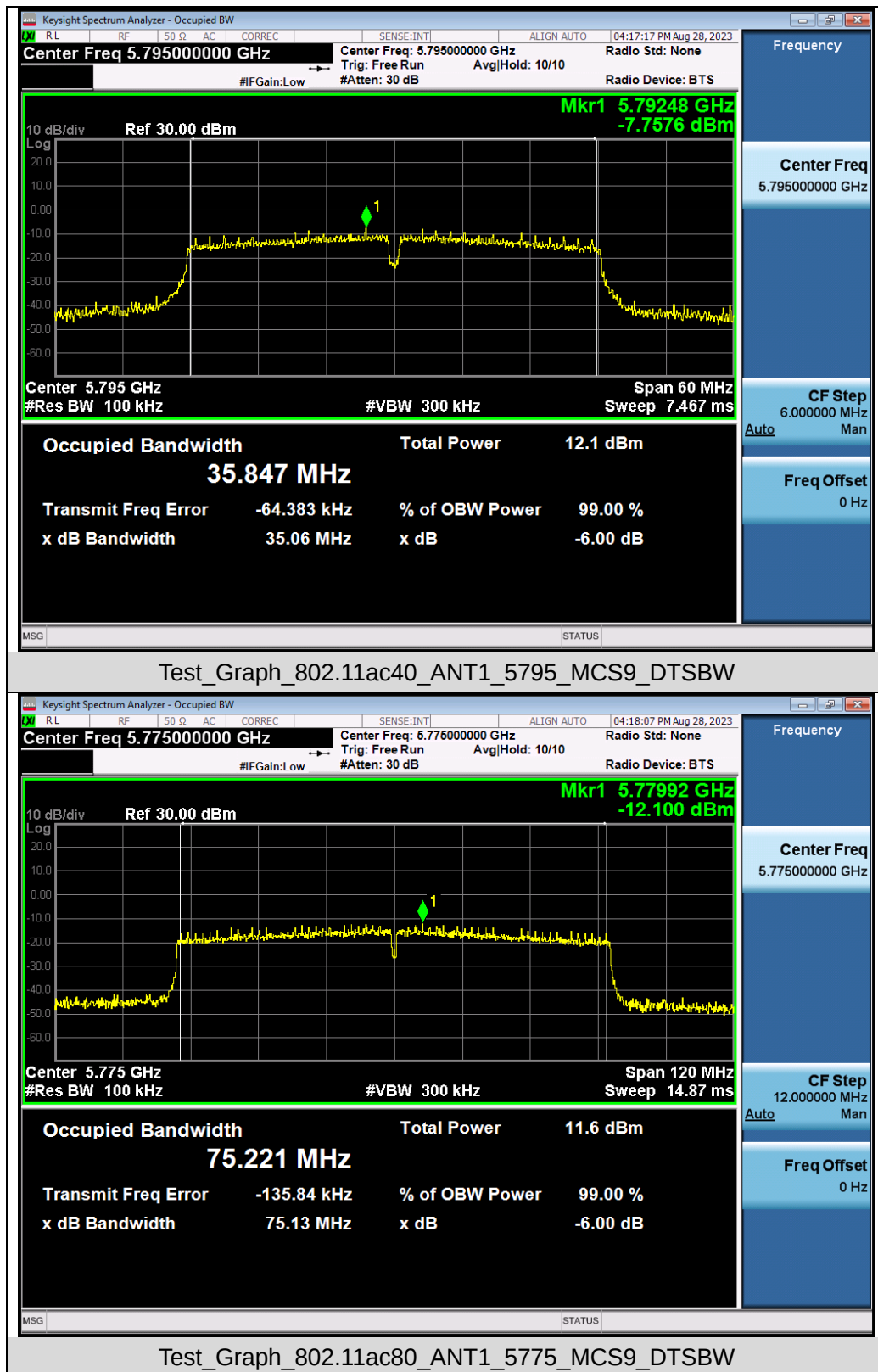


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9. POWER SPECTRAL DENSITY MEASUREMENT

9.1 MEASUREMENT LIMITS

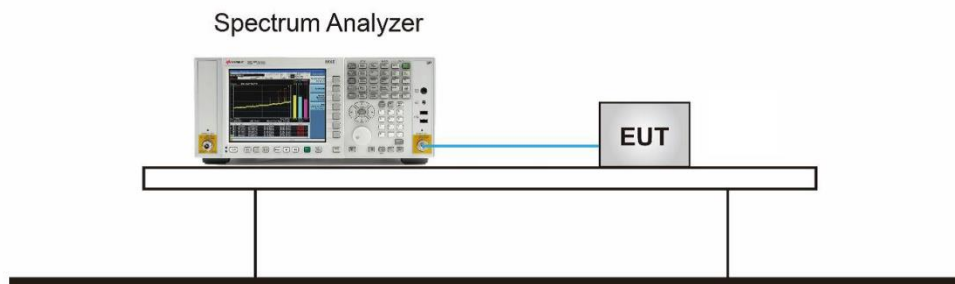
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 MEASUREMENT PROCEDURE

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through.
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 $\geq [3 \times \text{RBW}]$.
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 $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$ 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 $[10 \log (1/0.25)] = 6 \text{ dB}$ 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	1.052	11	Pass
	5200	0.417	11	Pass
	5240	-0.068	11	Pass
802.11n20	5180	0.327	11	Pass
	5200	0.230	11	Pass
	5240	-0.002	11	Pass
802.11n40	5190	-2.426	11	Pass
	5230	-2.614	11	Pass
802.11ac20	5180	0.211	11	Pass
	5200	0.183	11	Pass
	5240	0.060	11	Pass
802.11ac40	5190	-2.415	11	Pass
	5230	-2.905	11	Pass
802.11ac80	5210	-5.270	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	-0.128	11	Pass
	5300	0.470	11	Pass
	5320	0.337	11	Pass
802.11n20	5260	0.004	11	Pass
	5300	-0.021	11	Pass
	5320	-0.007	11	Pass
802.11n40	5270	-2.875	11	Pass
	5310	-2.857	11	Pass
802.11ac20	5260	-0.268	11	Pass
	5300	-0.012	11	Pass
	5320	-0.049	11	Pass
802.11ac40	5270	-2.611	11	Pass
	5310	-2.949	11	Pass
802.11ac80	5290	-5.605	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	-11.481	-4.491	30	Pass
	5785	-11.709	-4.719	30	Pass
	5825	-11.417	-4.427	30	Pass
802.11n20	5745	-12.118	-5.128	30	Pass
	5785	-11.925	-4.935	30	Pass
	5825	-11.593	-4.603	30	Pass
802.11n40	5755	-14.640	-7.650	30	Pass
	5795	-14.887	-7.897	30	Pass
802.11ac20	5745	-12.028	-5.038	30	Pass
	5785	-12.041	-5.051	30	Pass
	5825	-11.622	-4.632	30	Pass
802.11ac40	5755	-14.914	-7.924	30	Pass
	5795	-14.625	-7.635	30	Pass
802.11ac80	5775	-16.965	-9.975	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

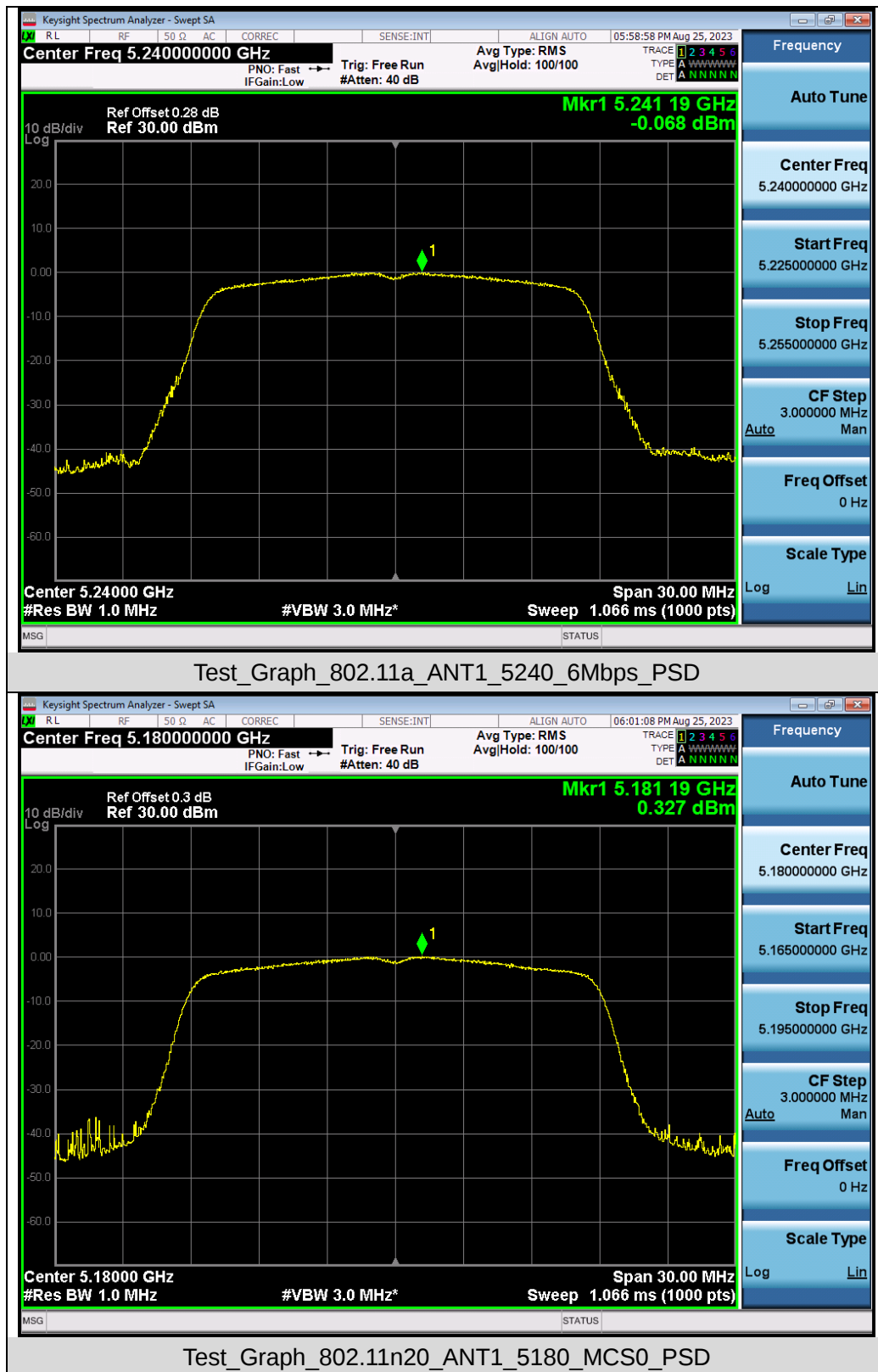


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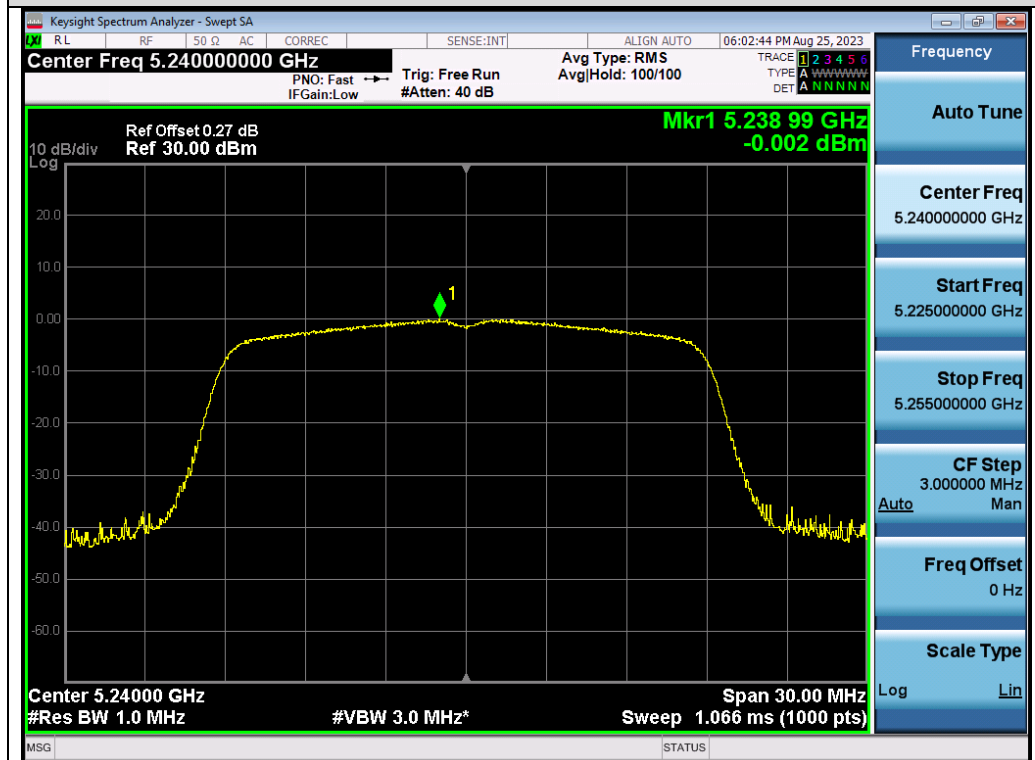
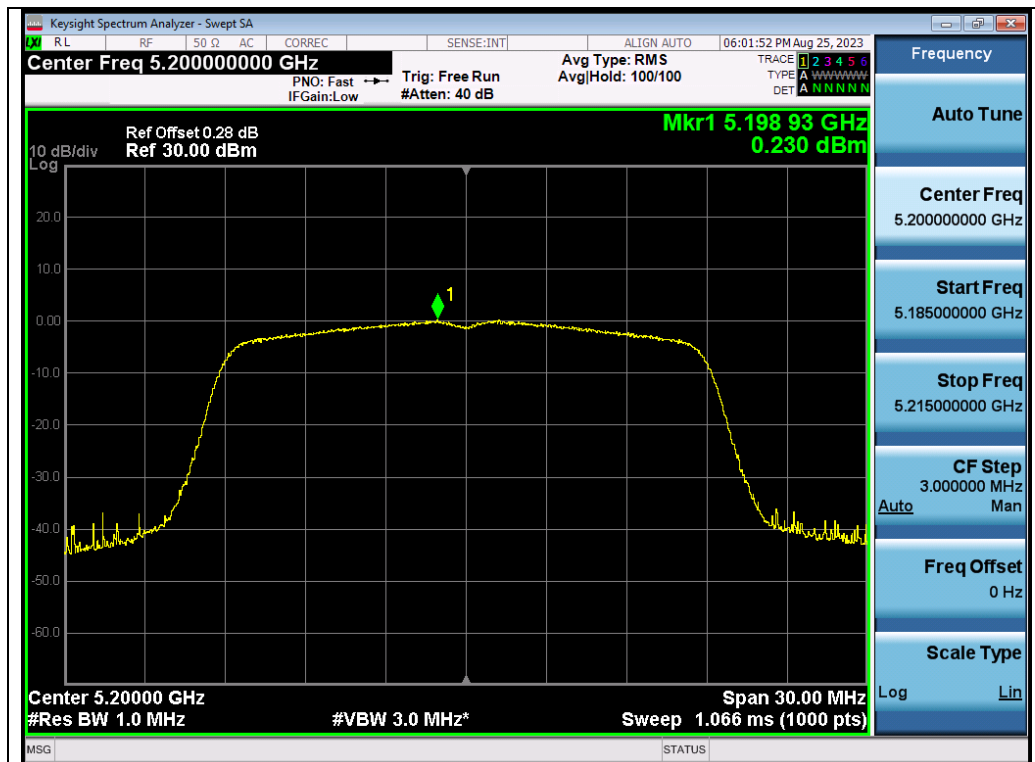
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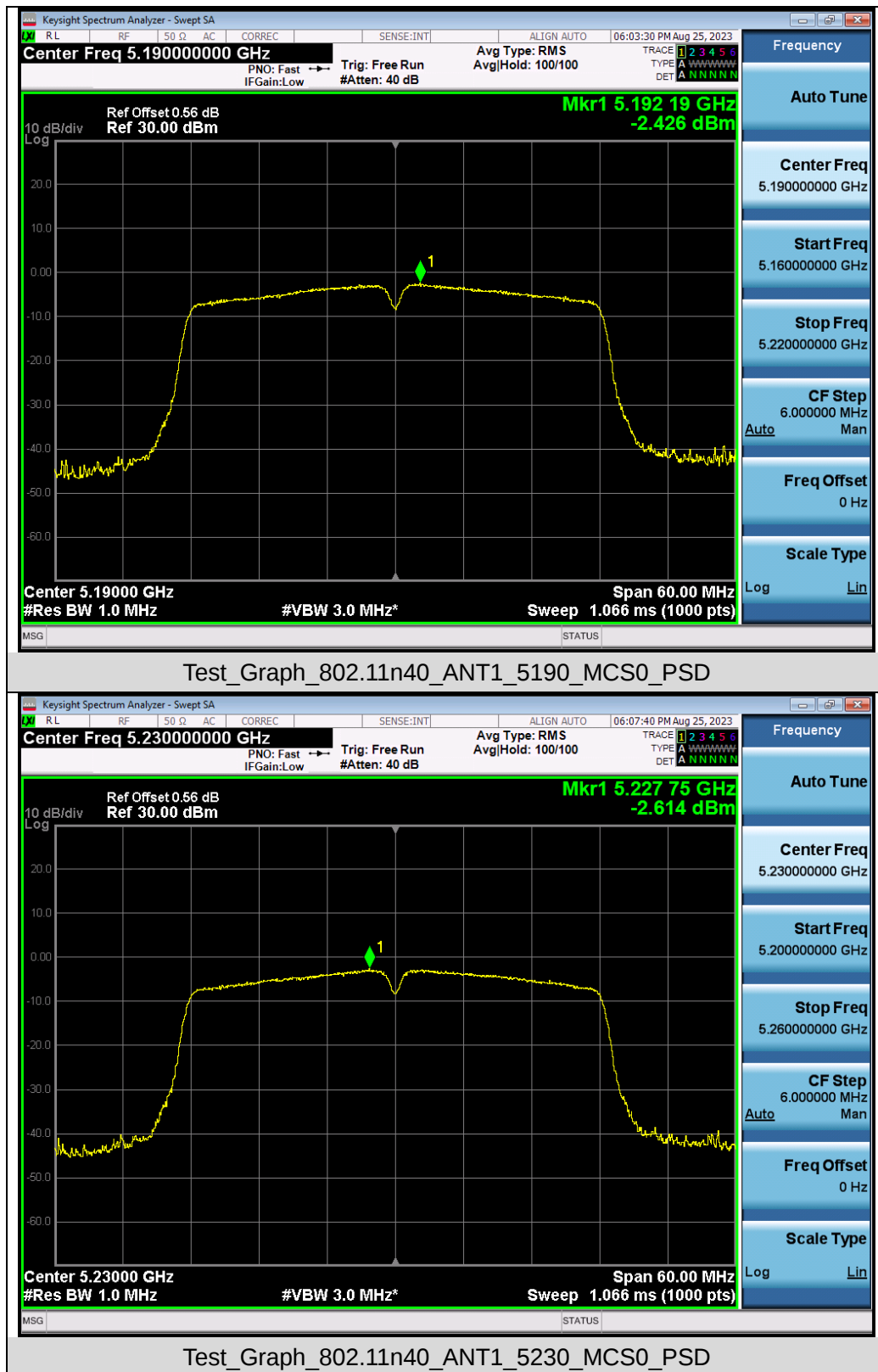
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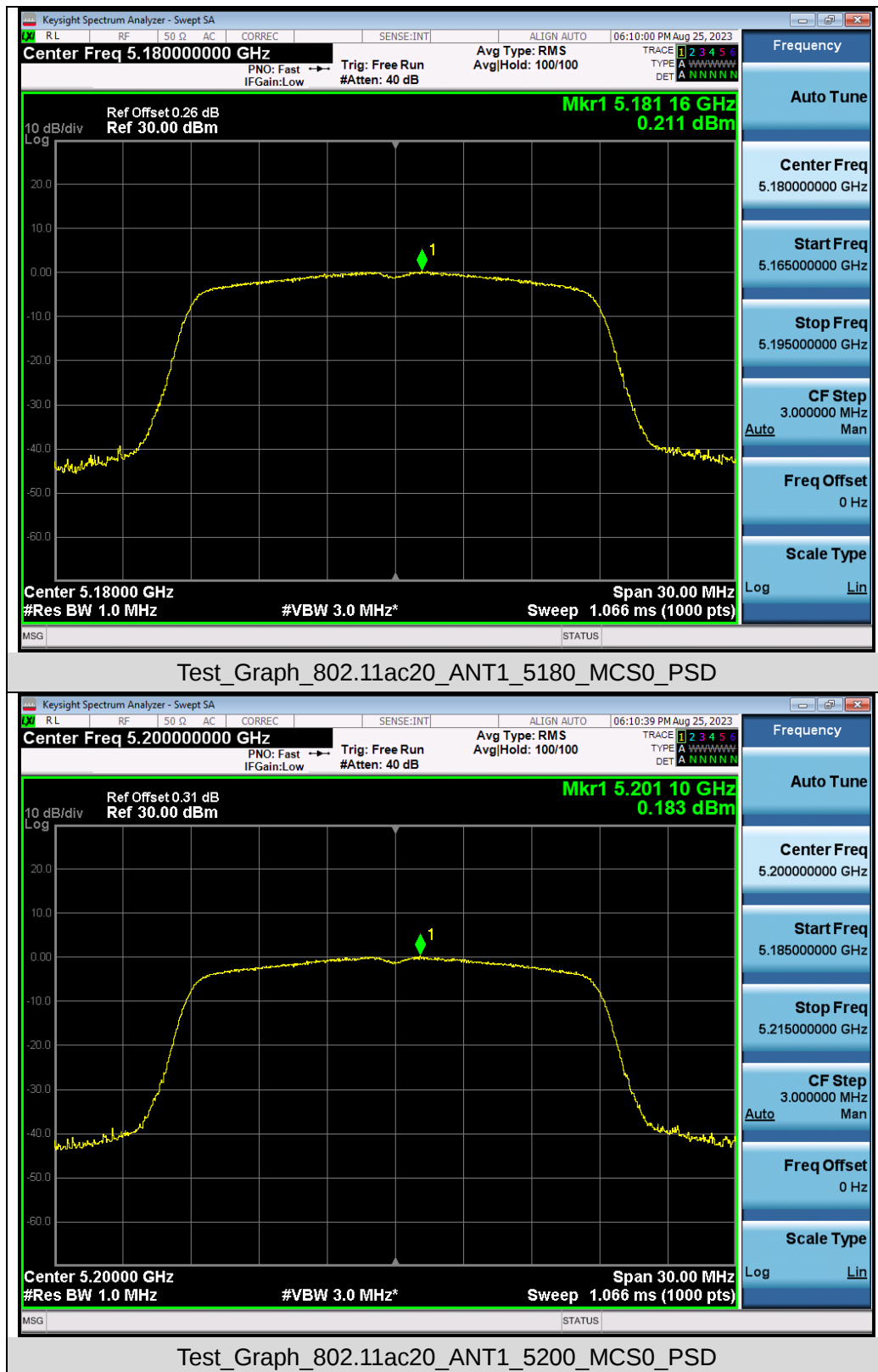
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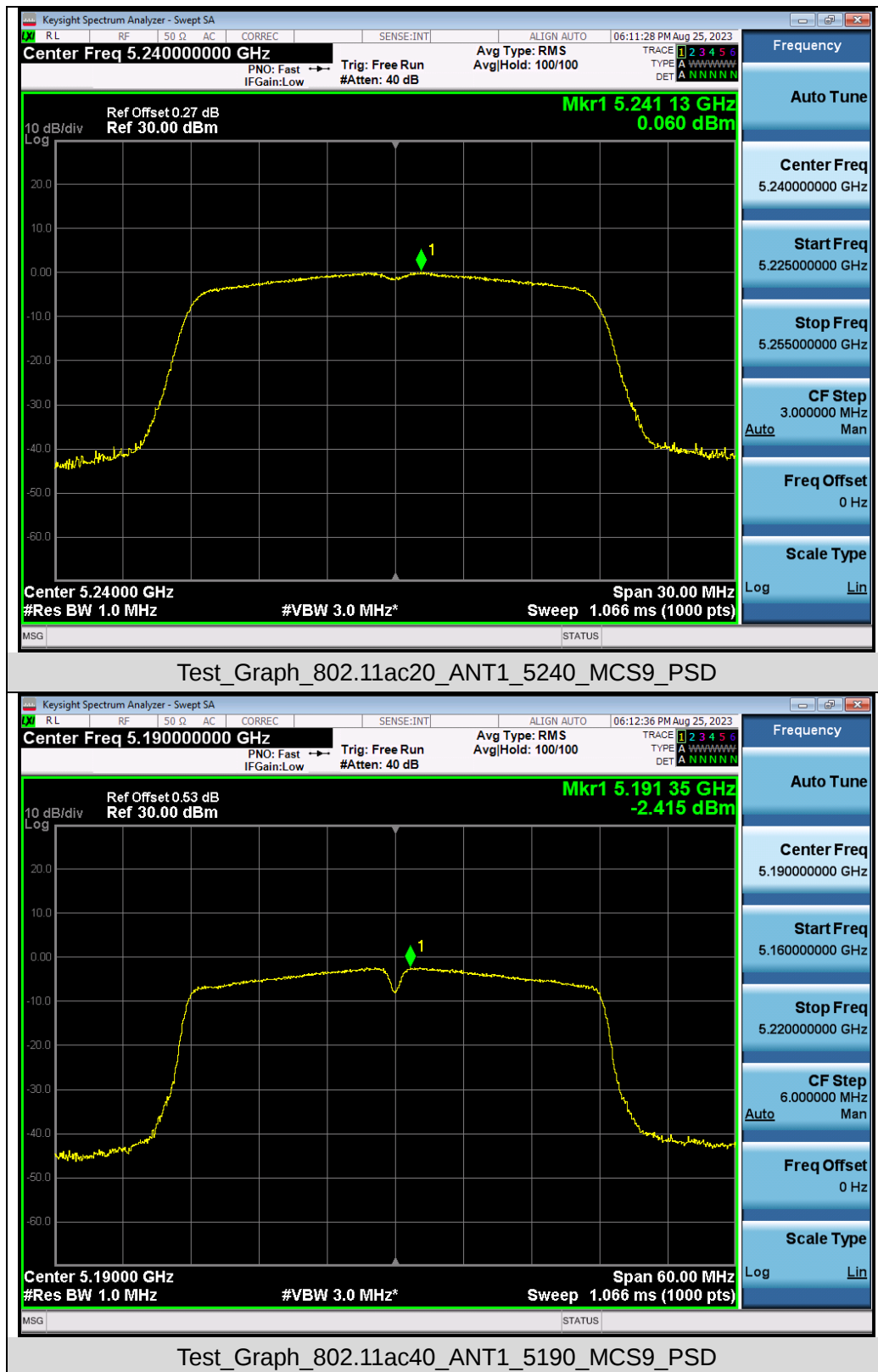
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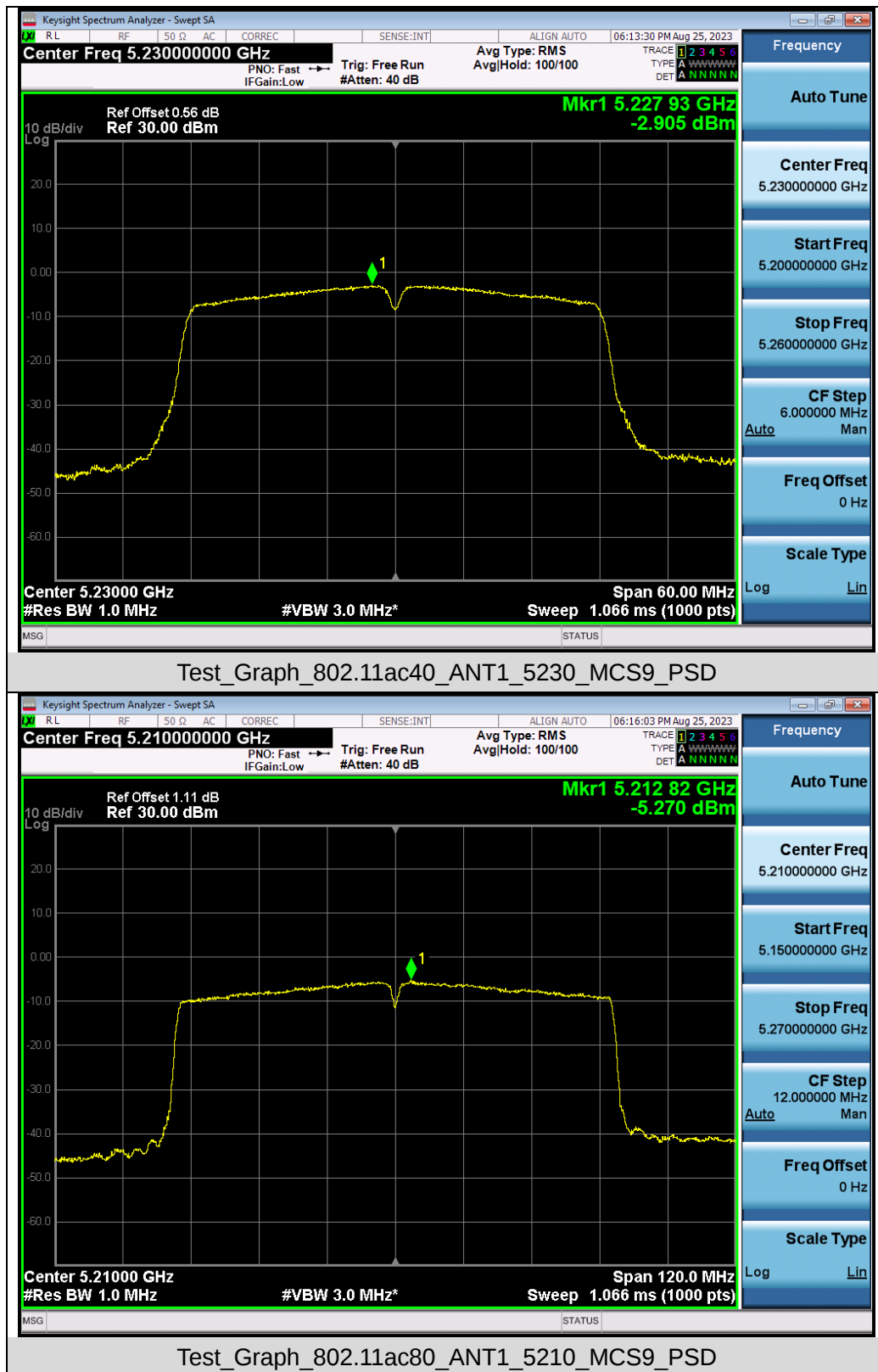
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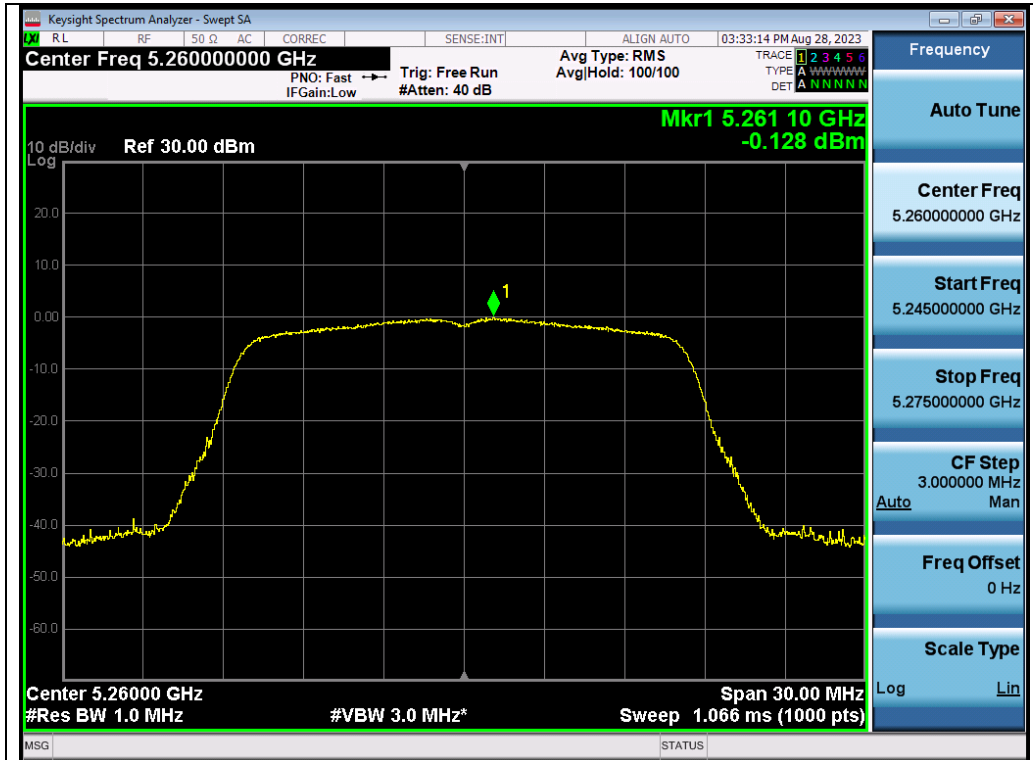
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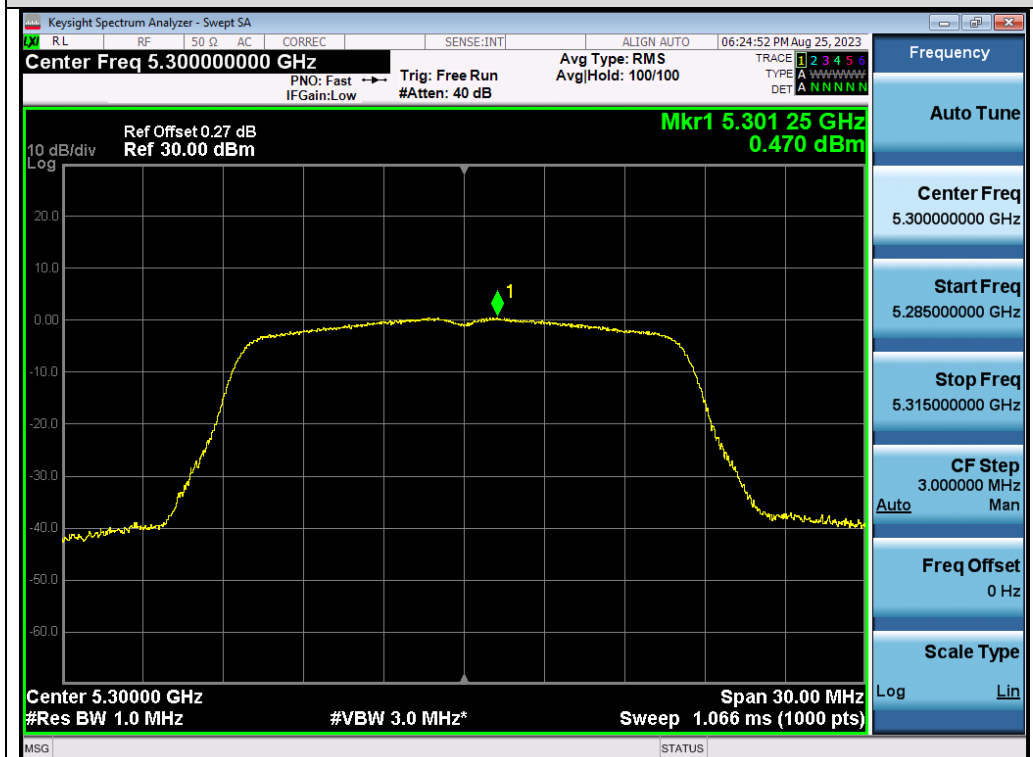
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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

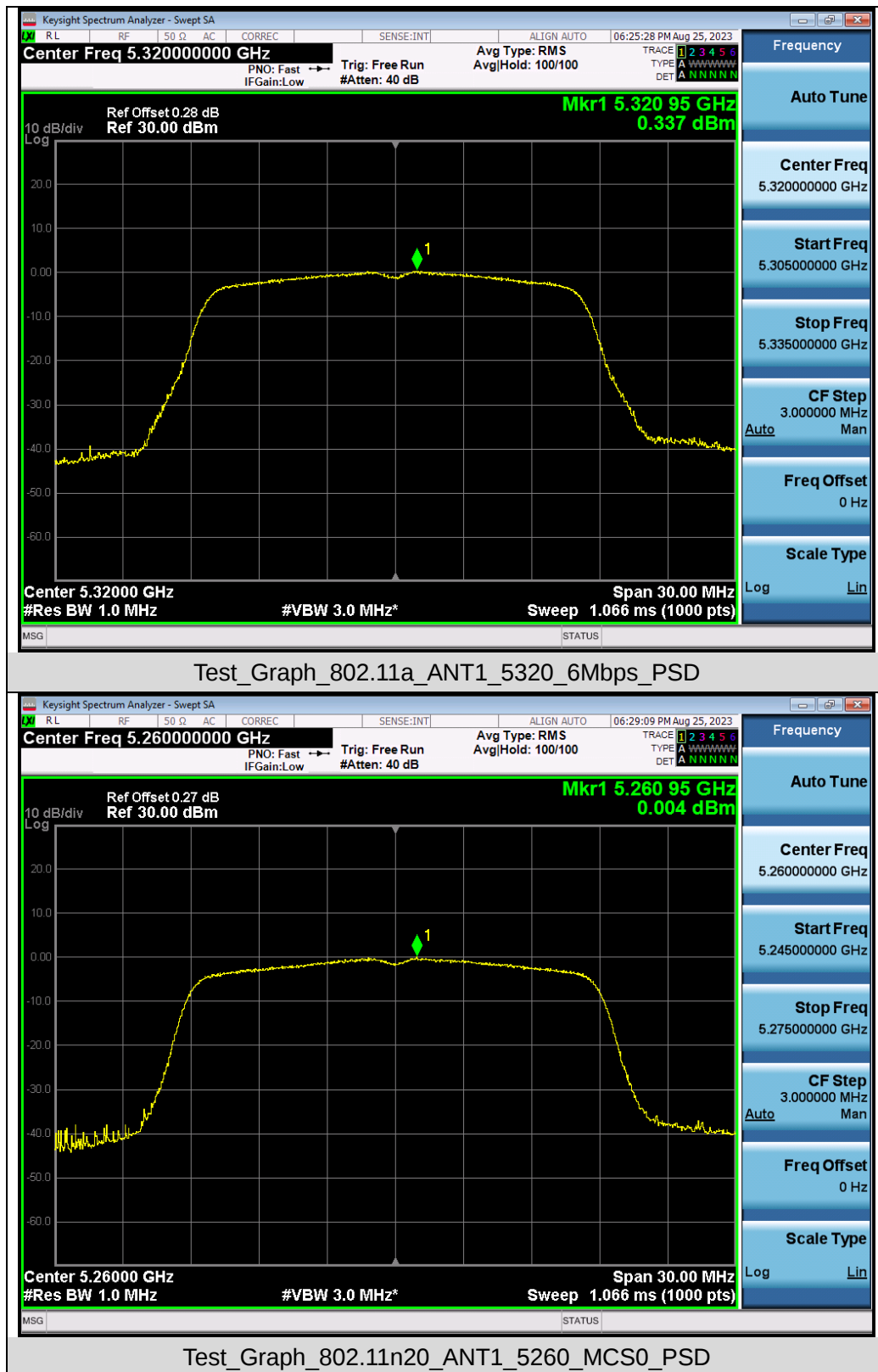


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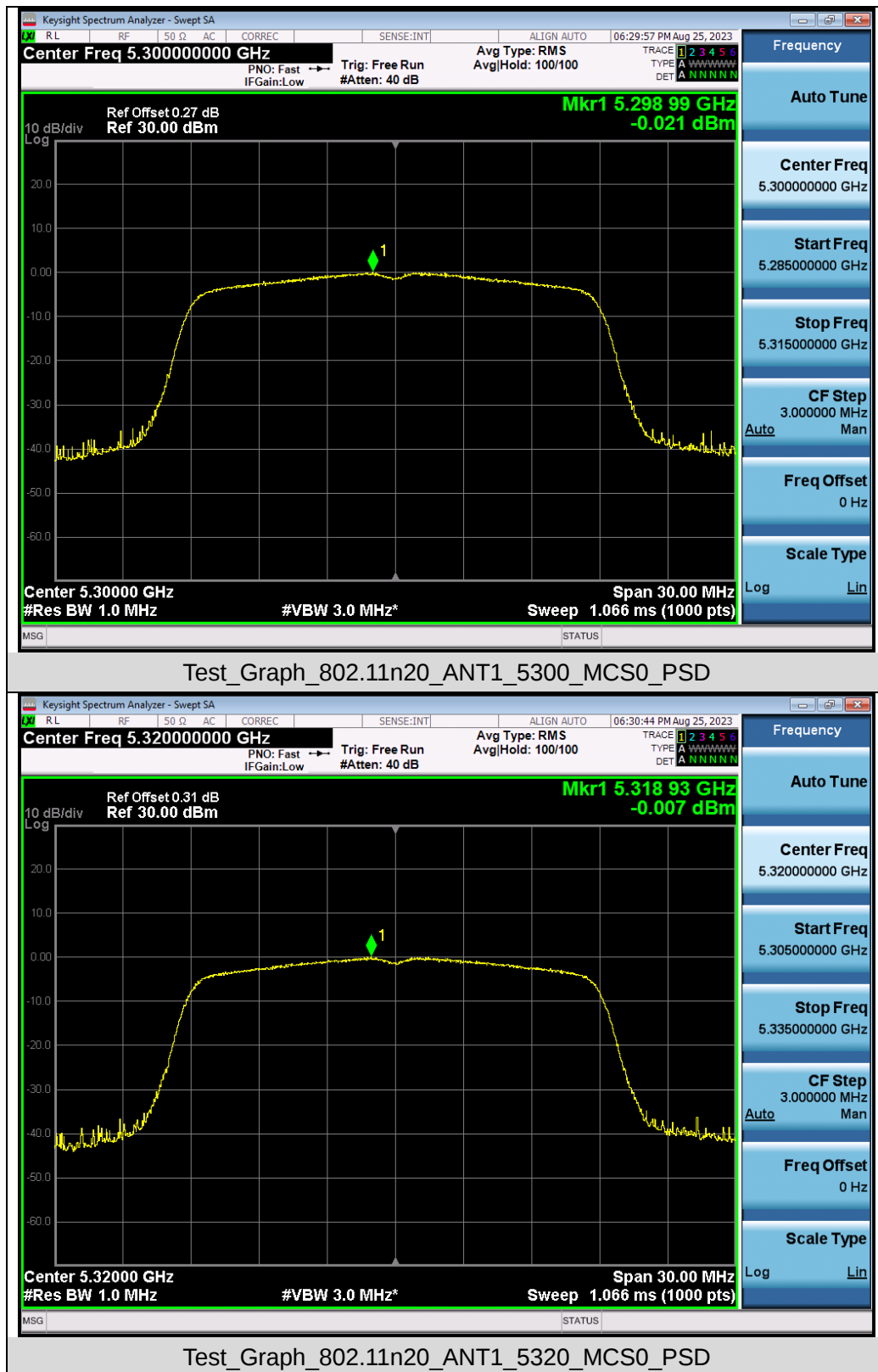
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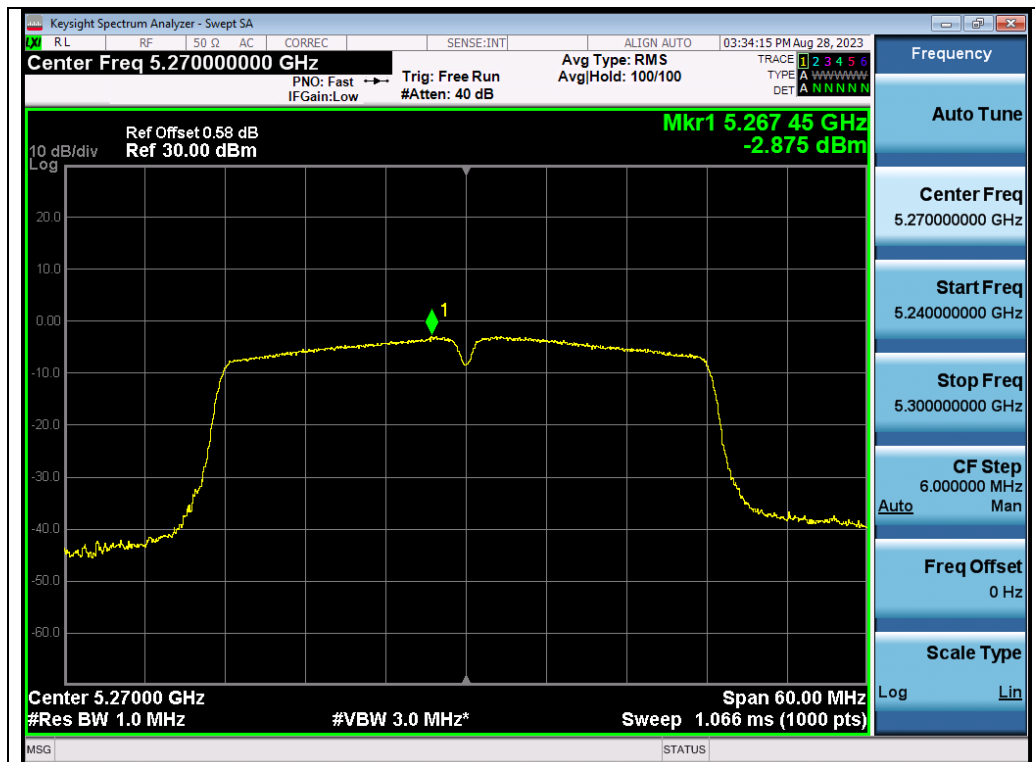


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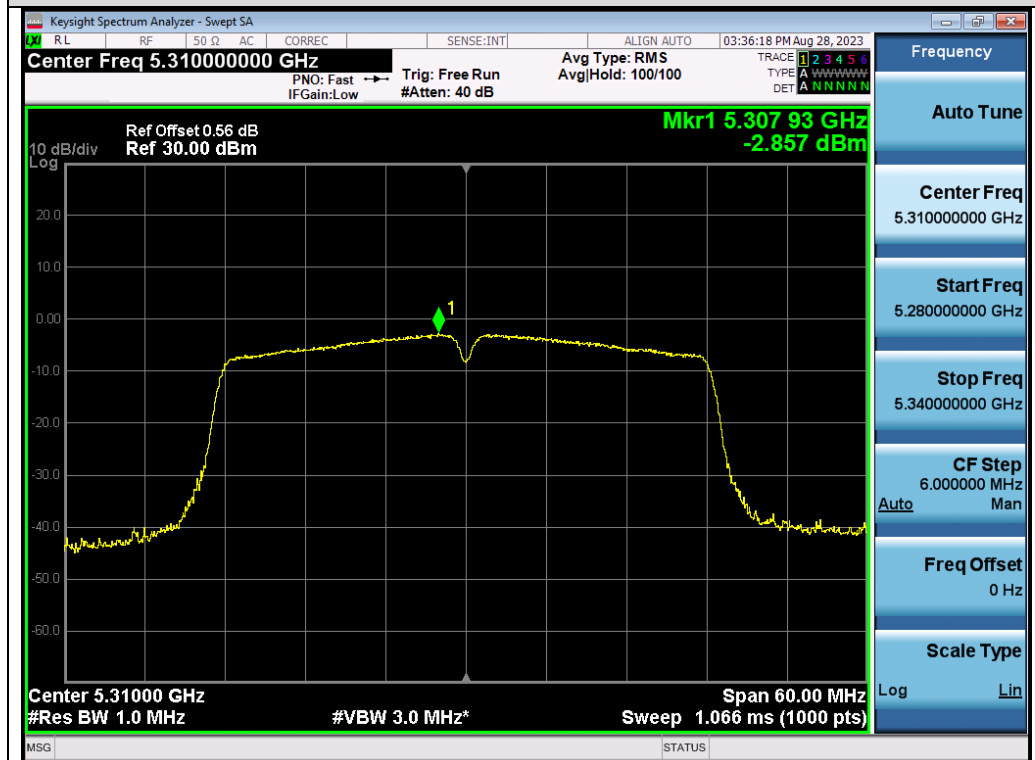
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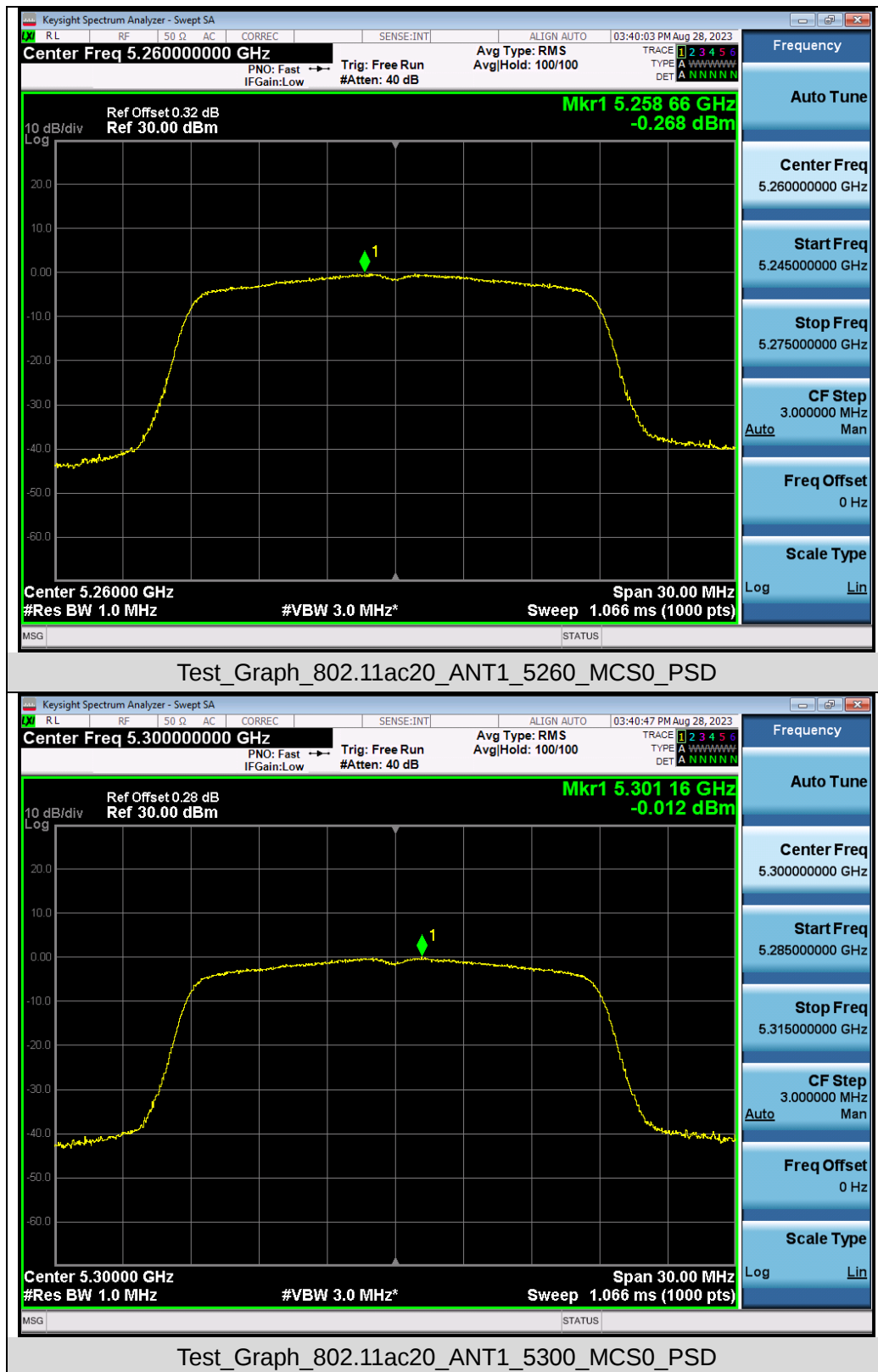
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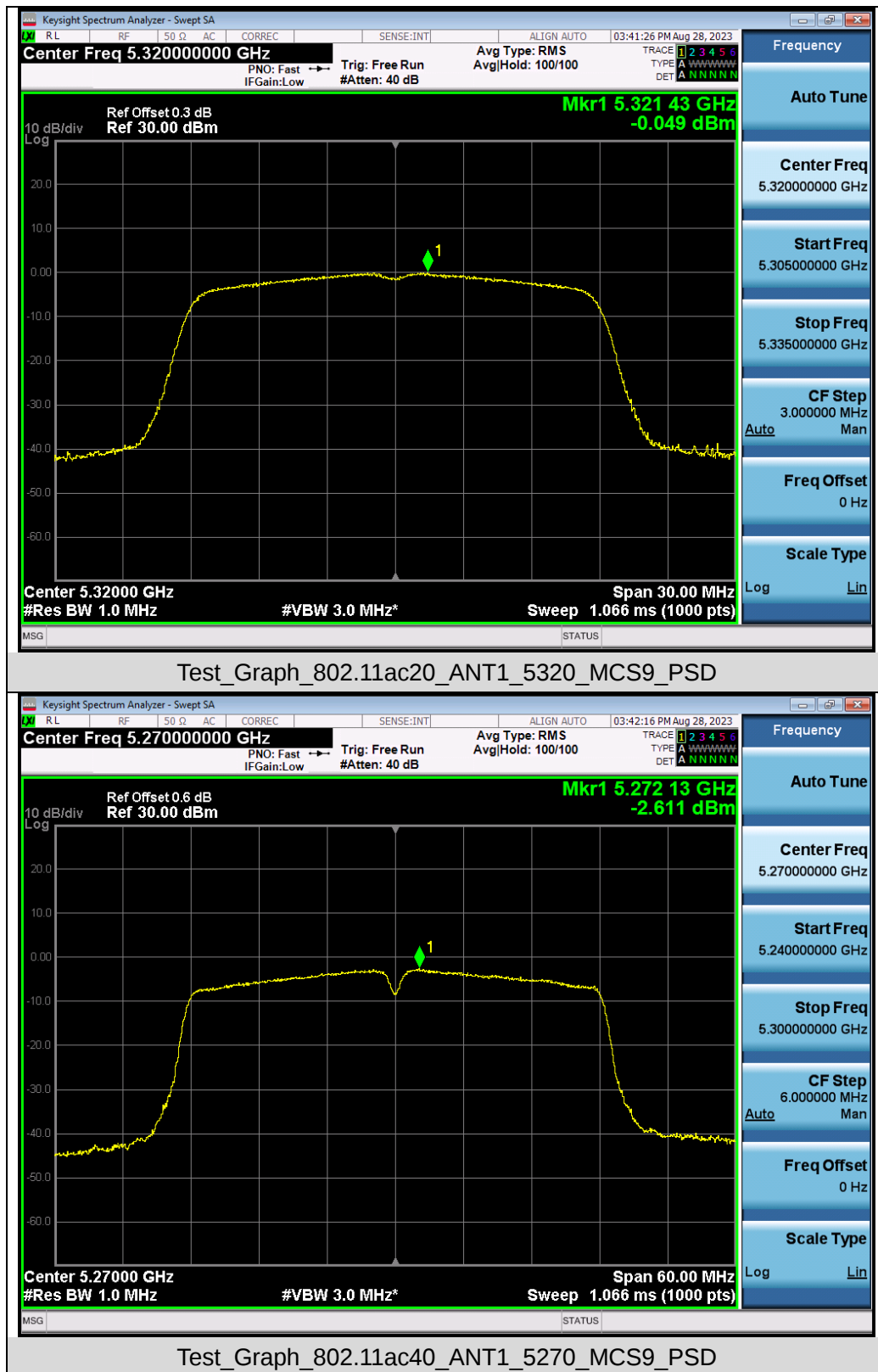
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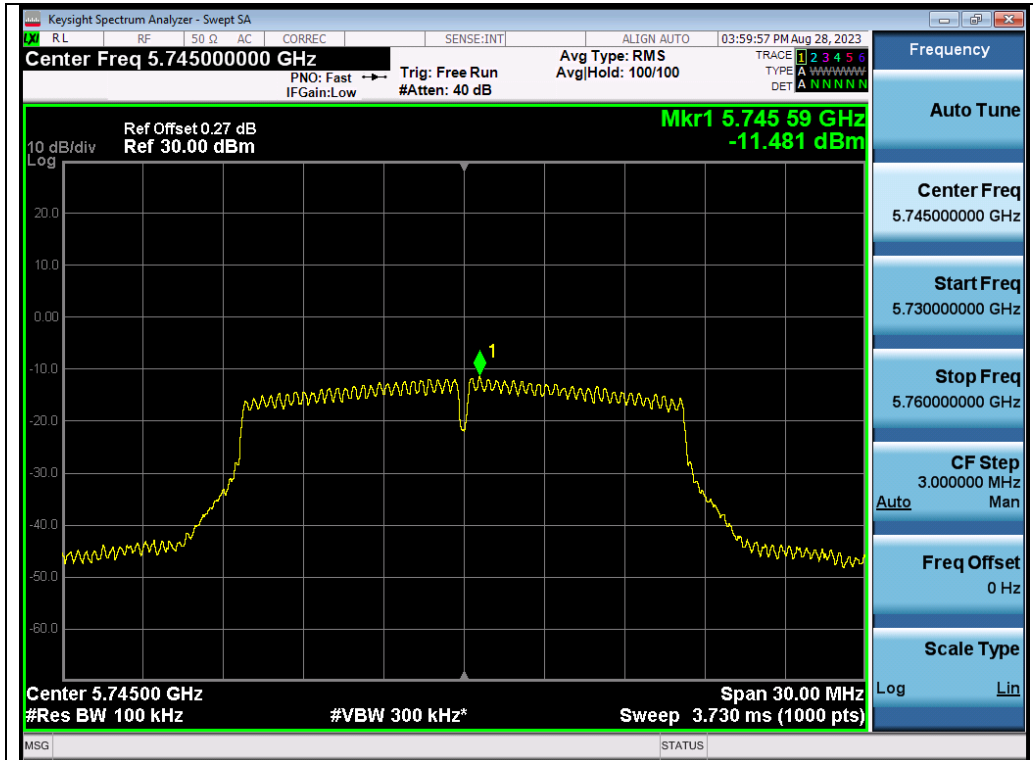


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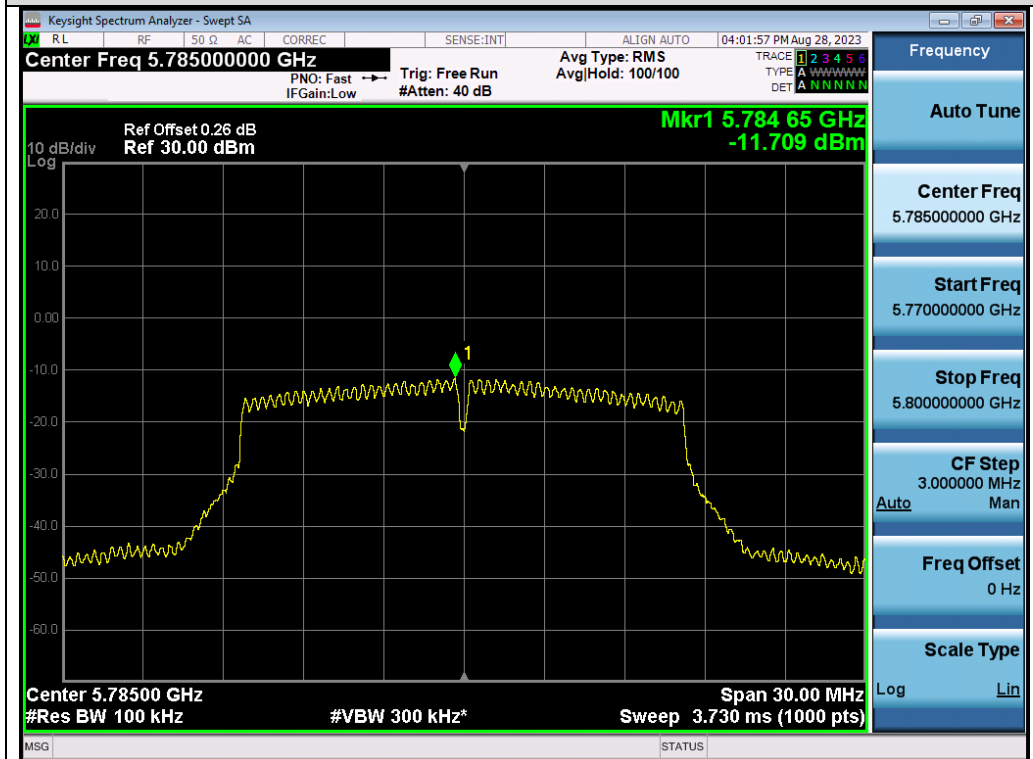


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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

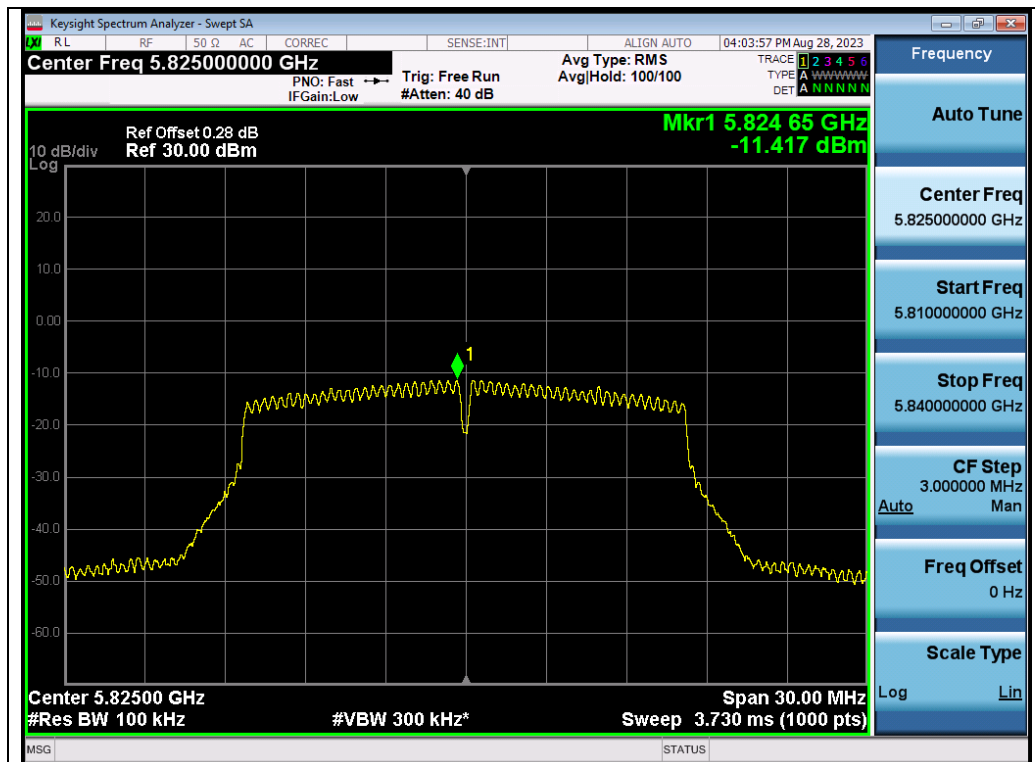


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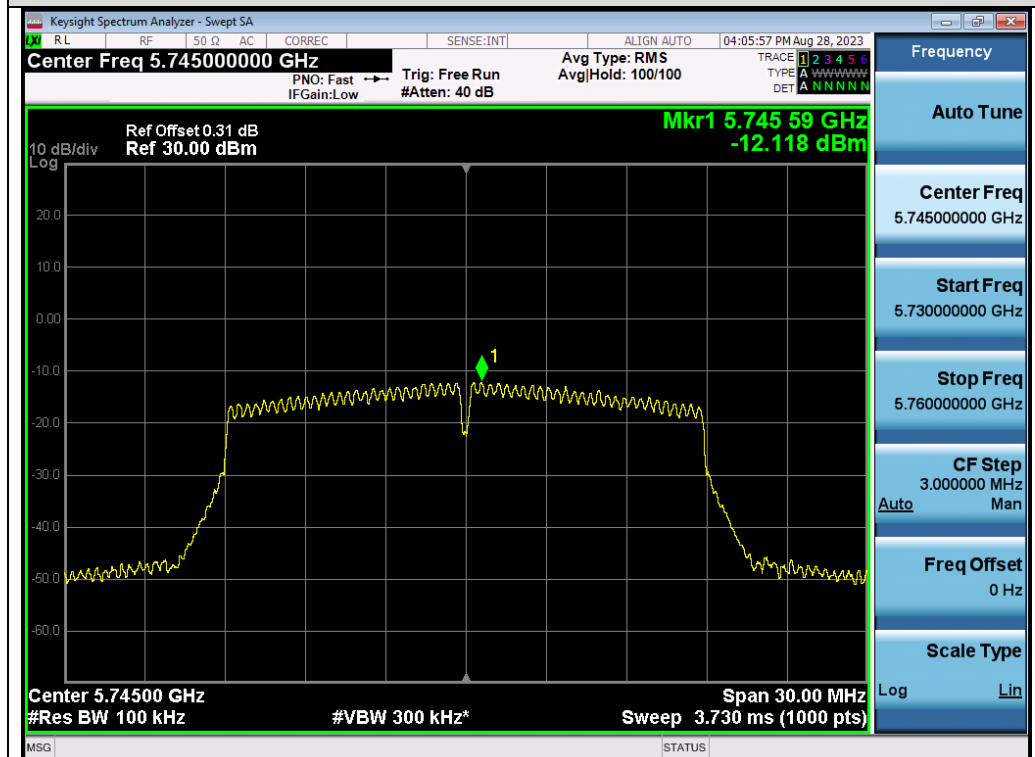


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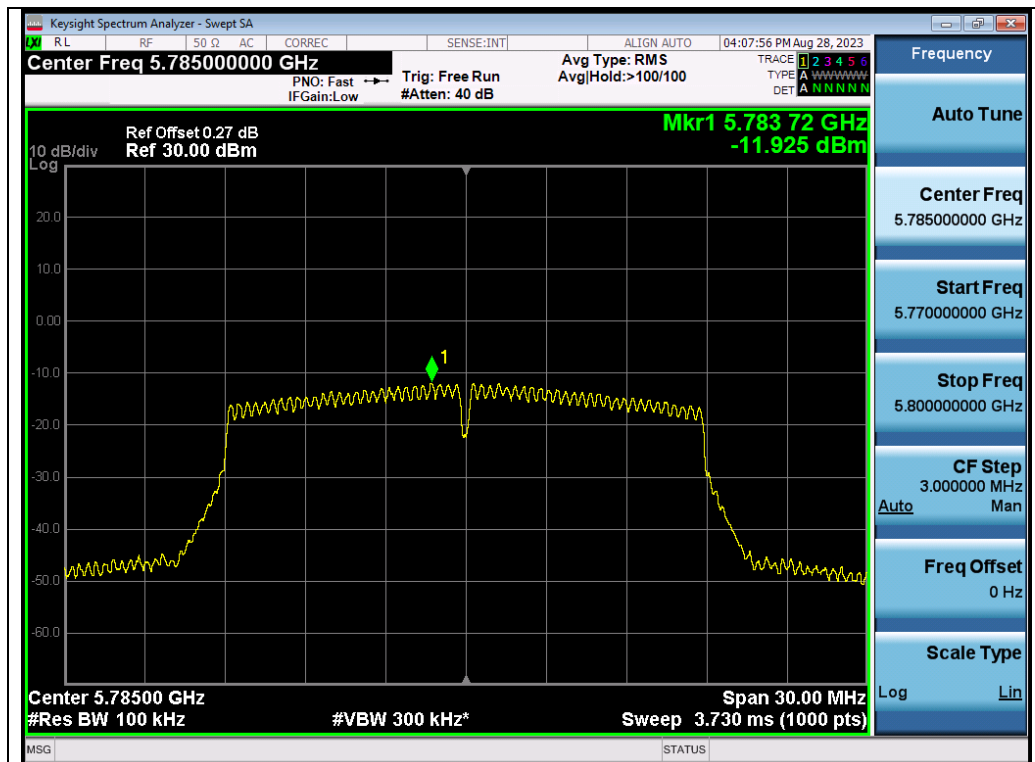
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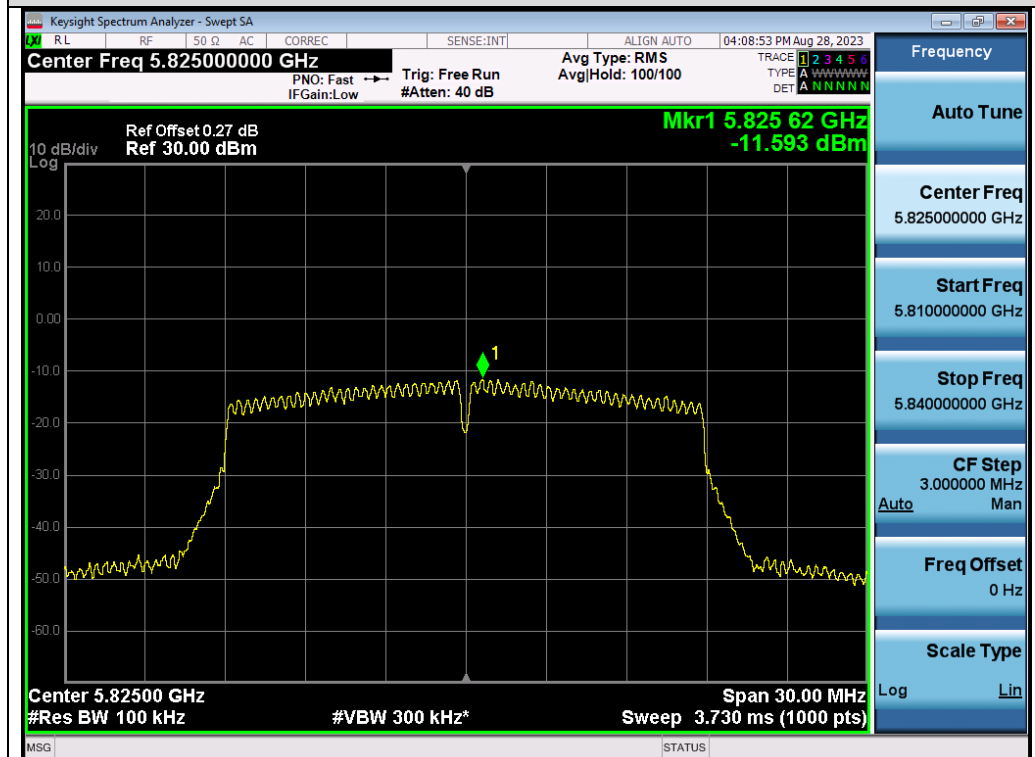
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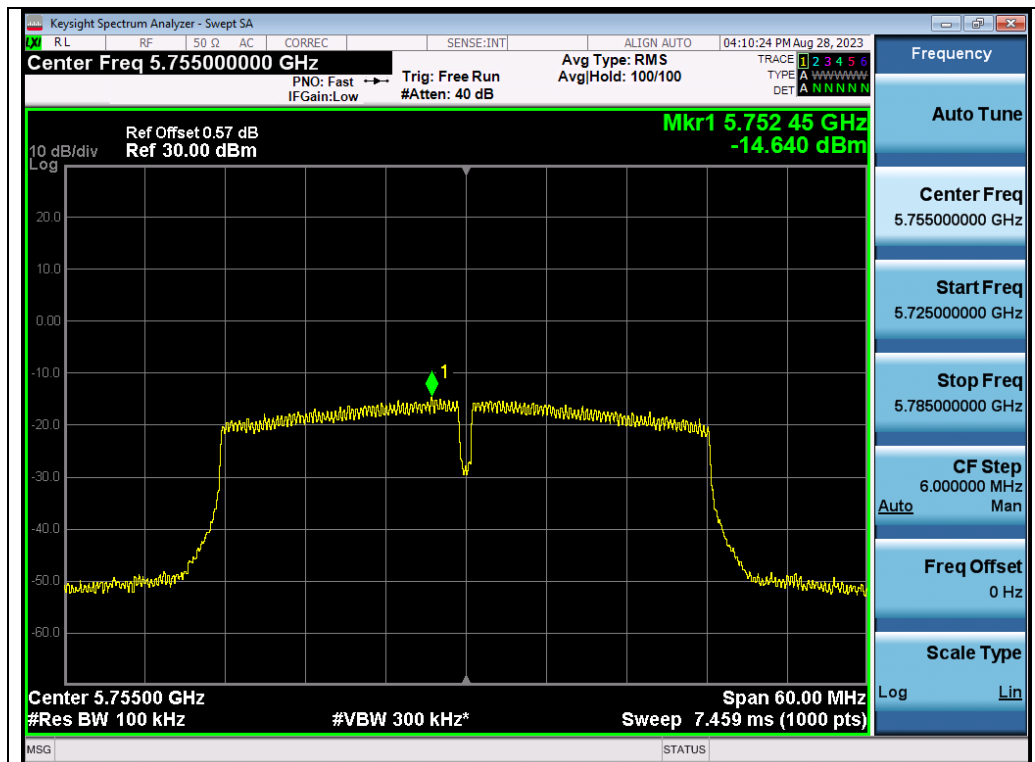


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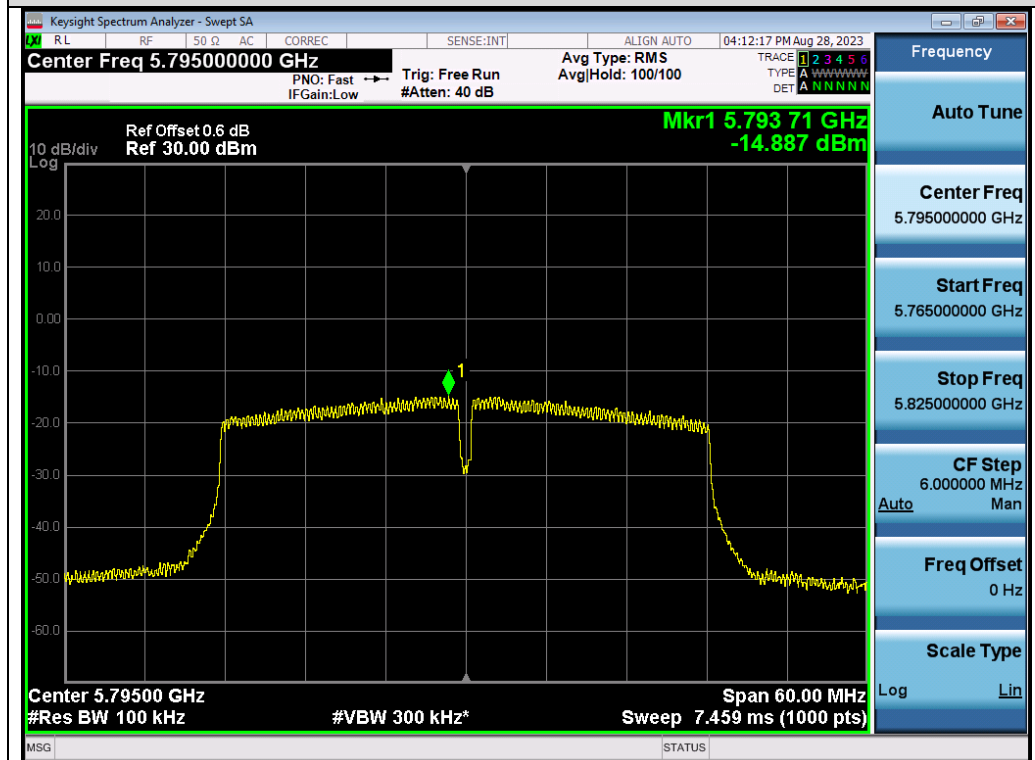


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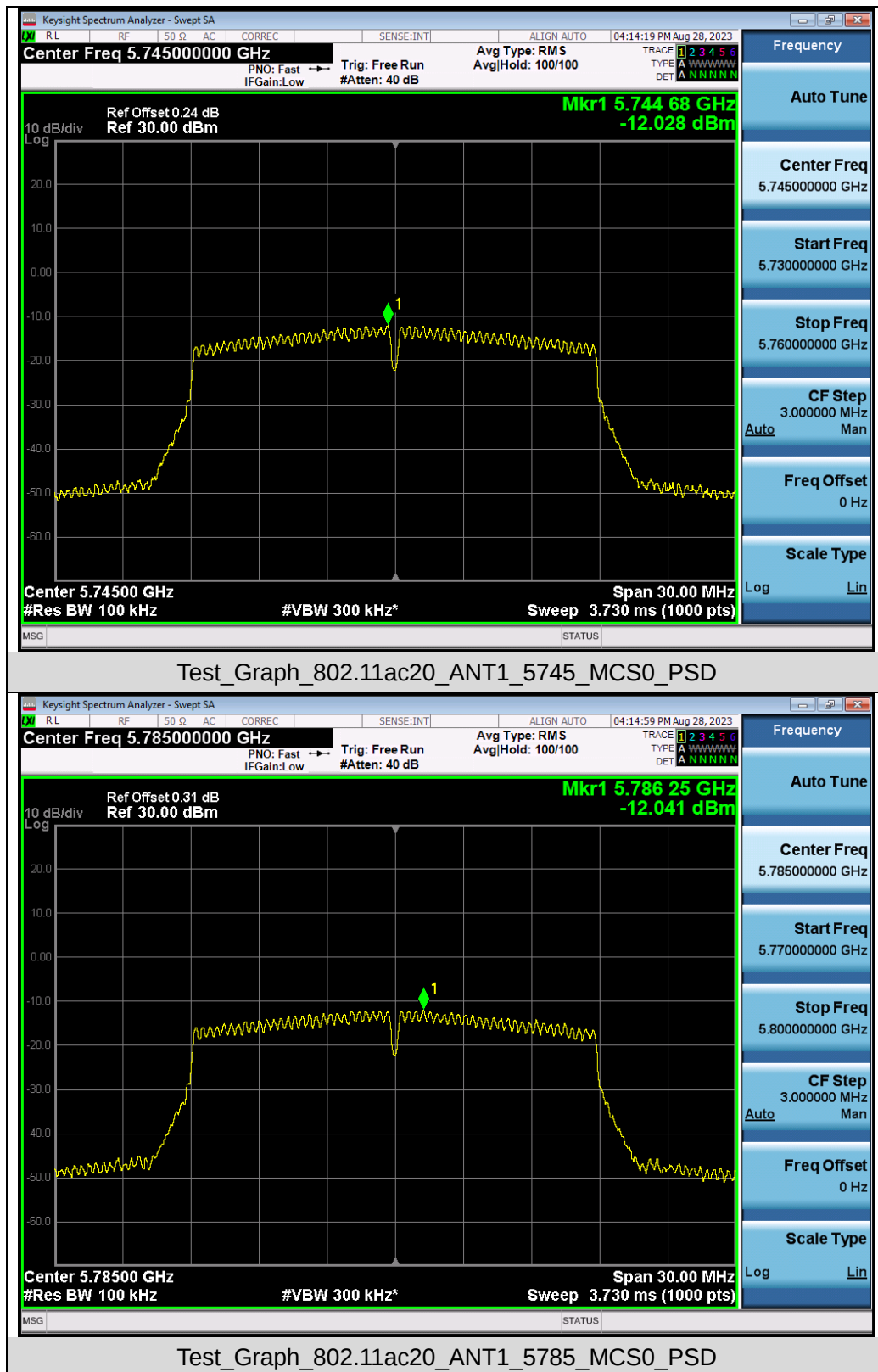
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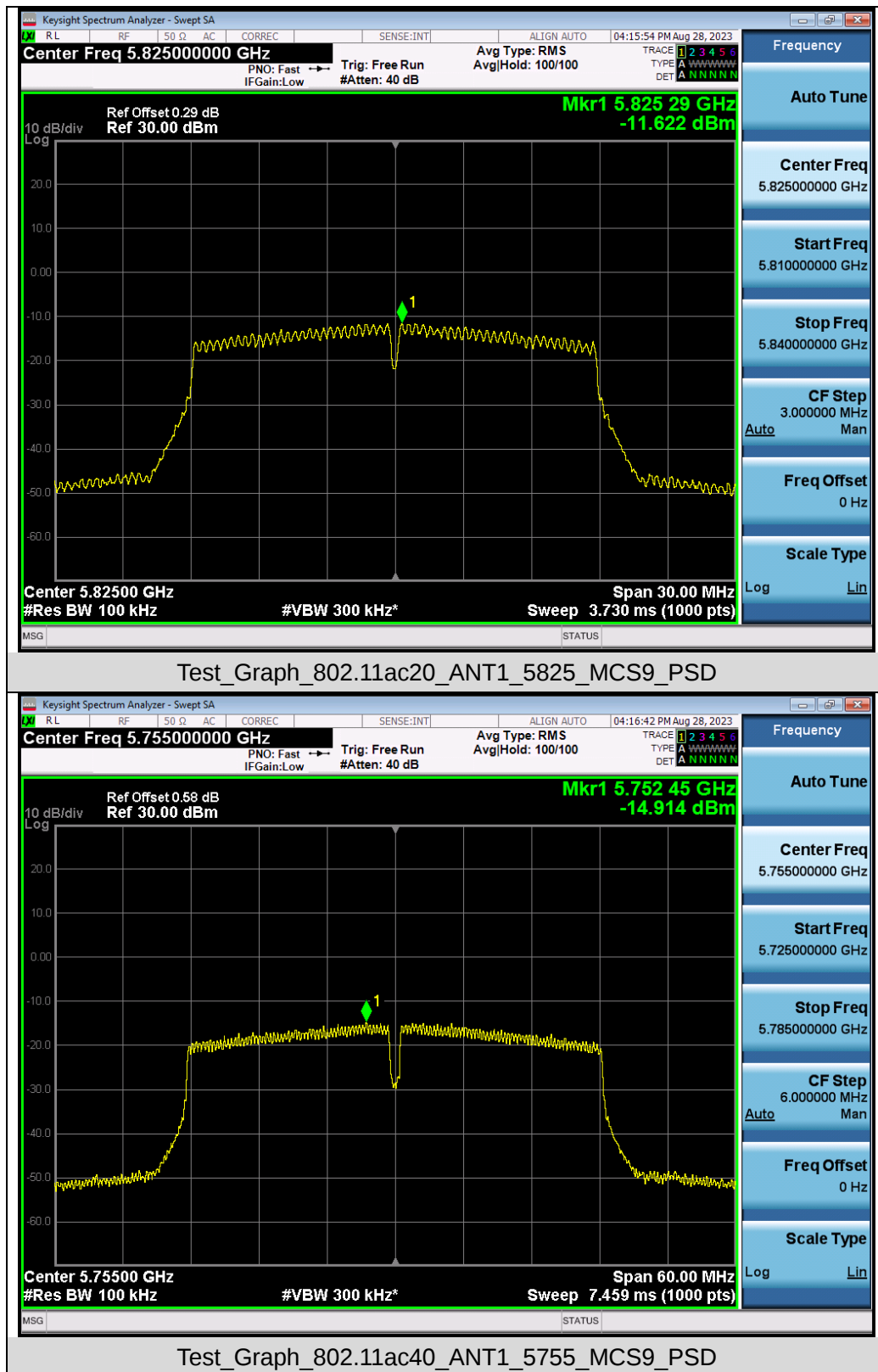
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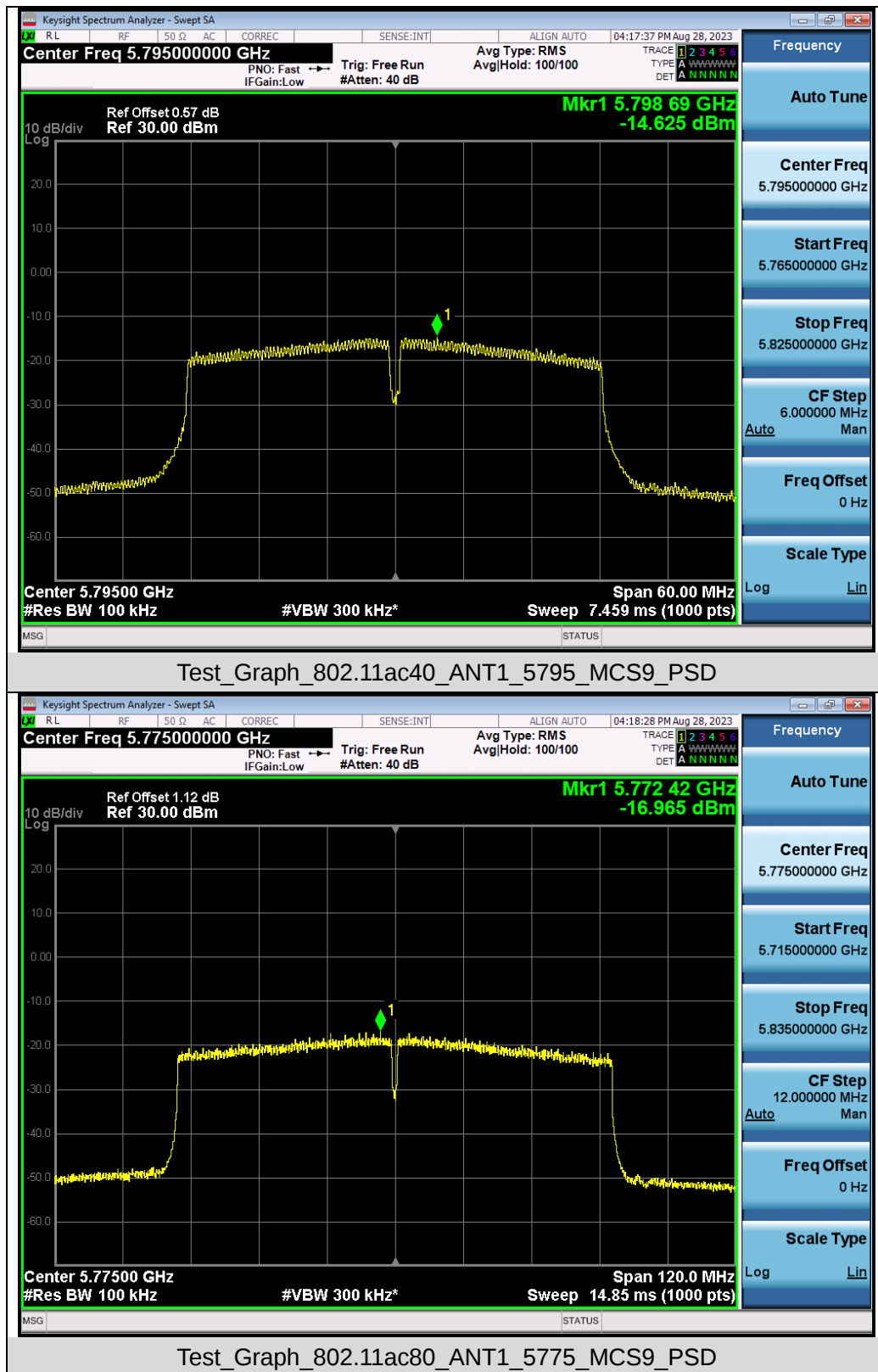
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10. CONDUCTED SPURIOUS EMISSION

10.1 MEASUREMENT LIMIT

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:

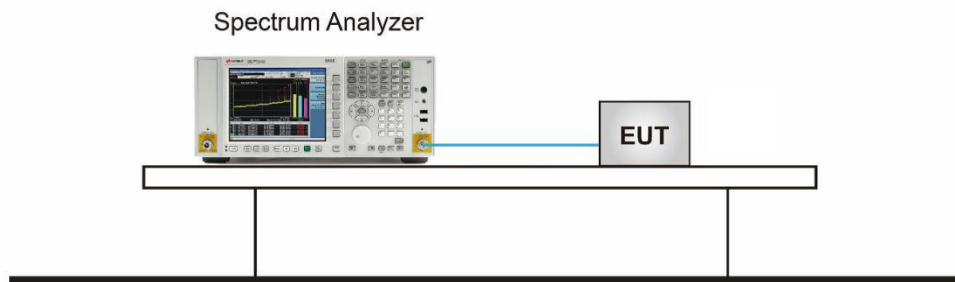
$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where P is the eirp (Watts).}$$

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.
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.

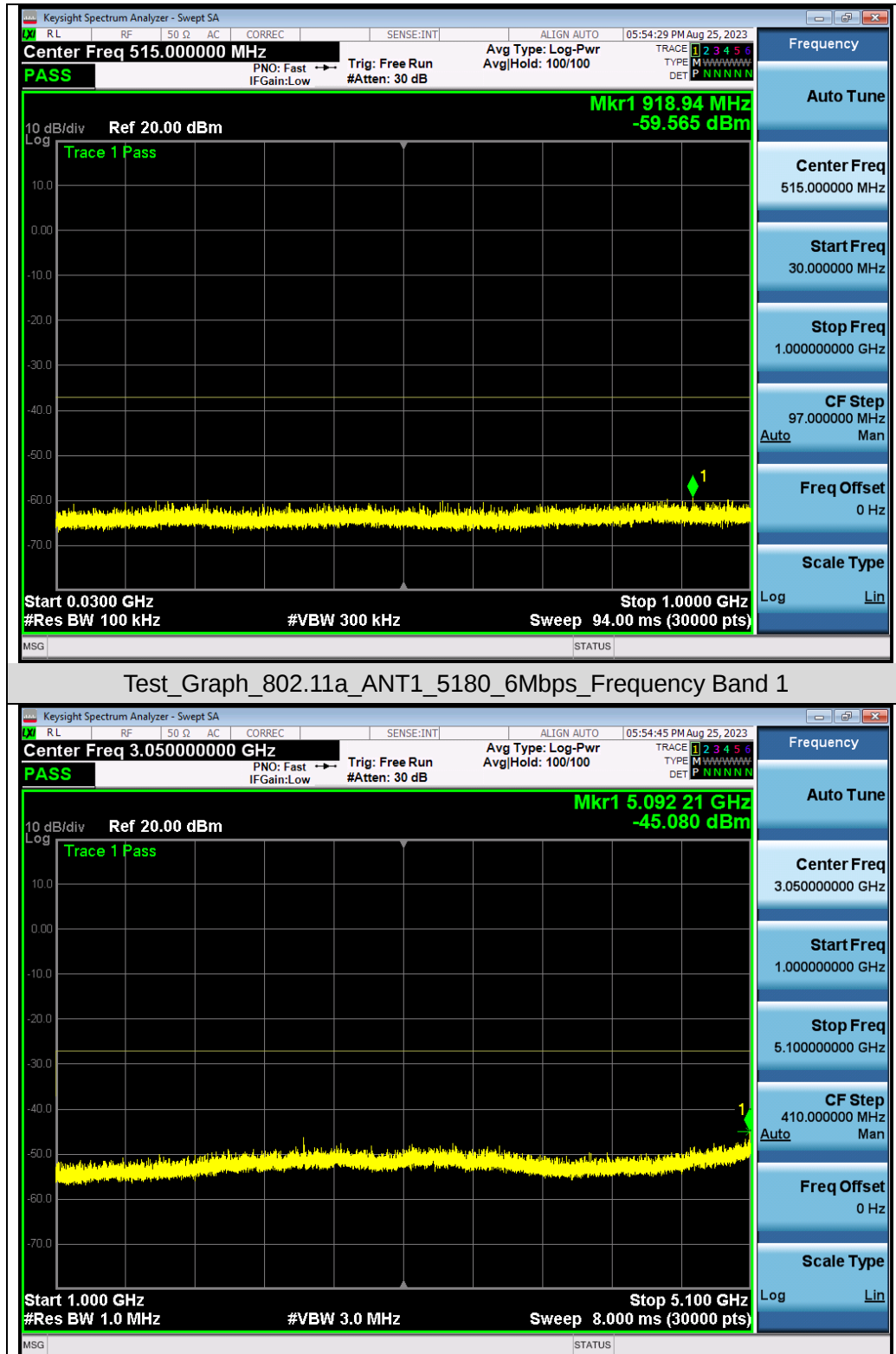
10.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



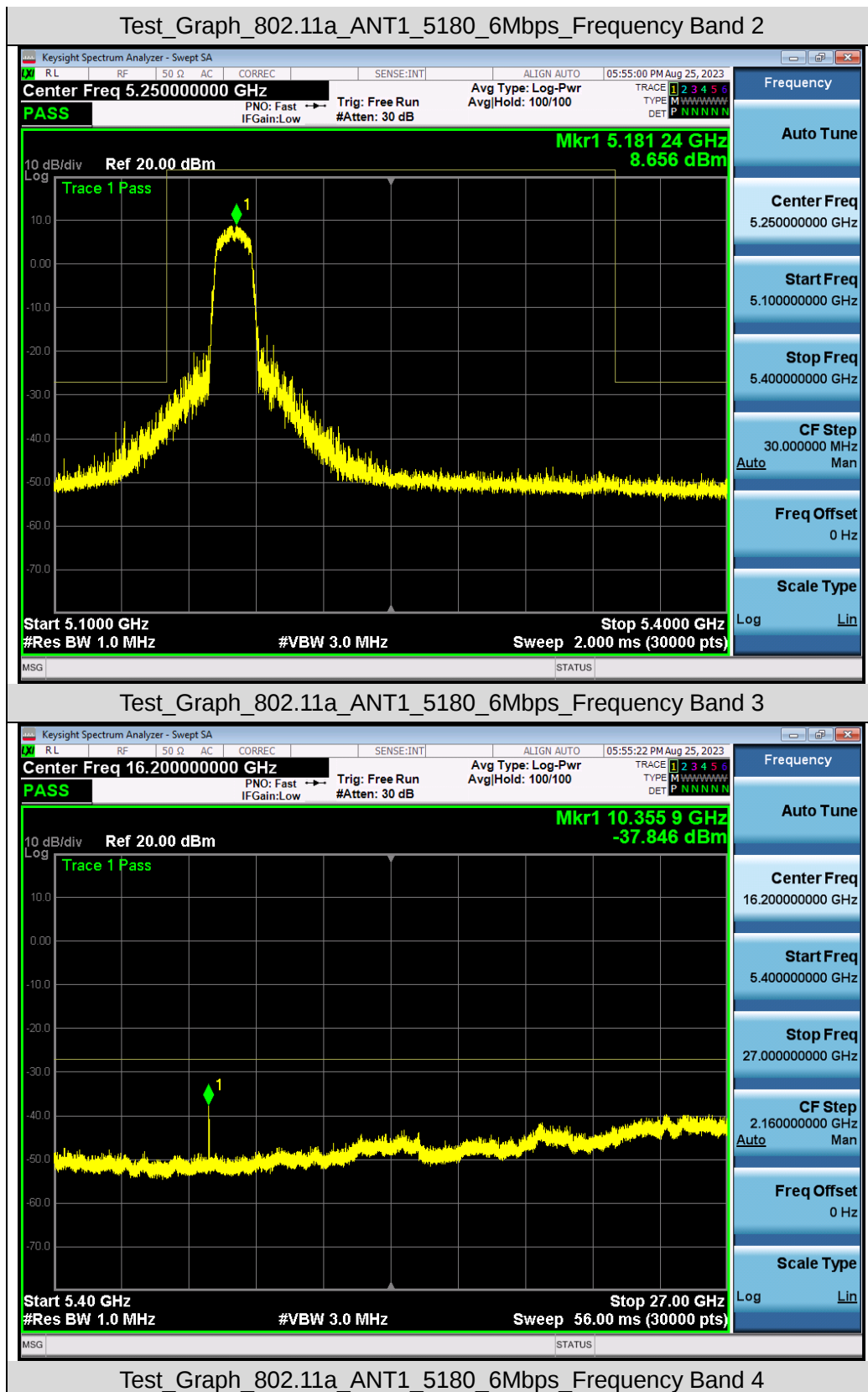
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10.4 MEASUREMENT RESULTS

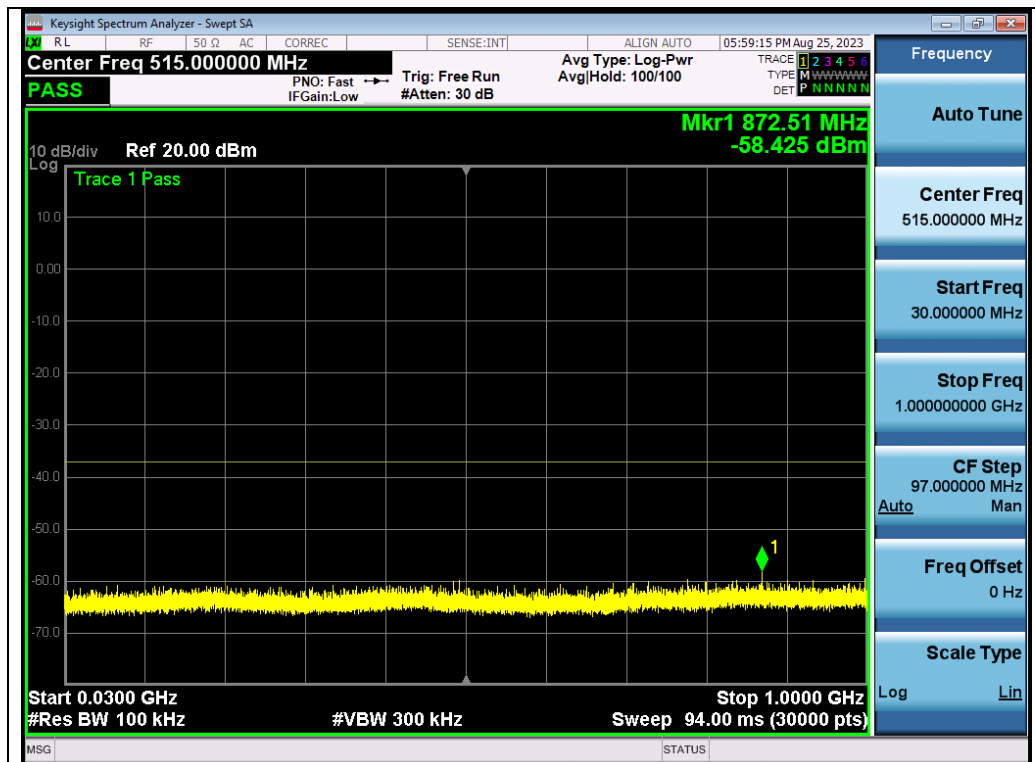
Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band for transmitters operating in the
5.15-5.25 GHz band



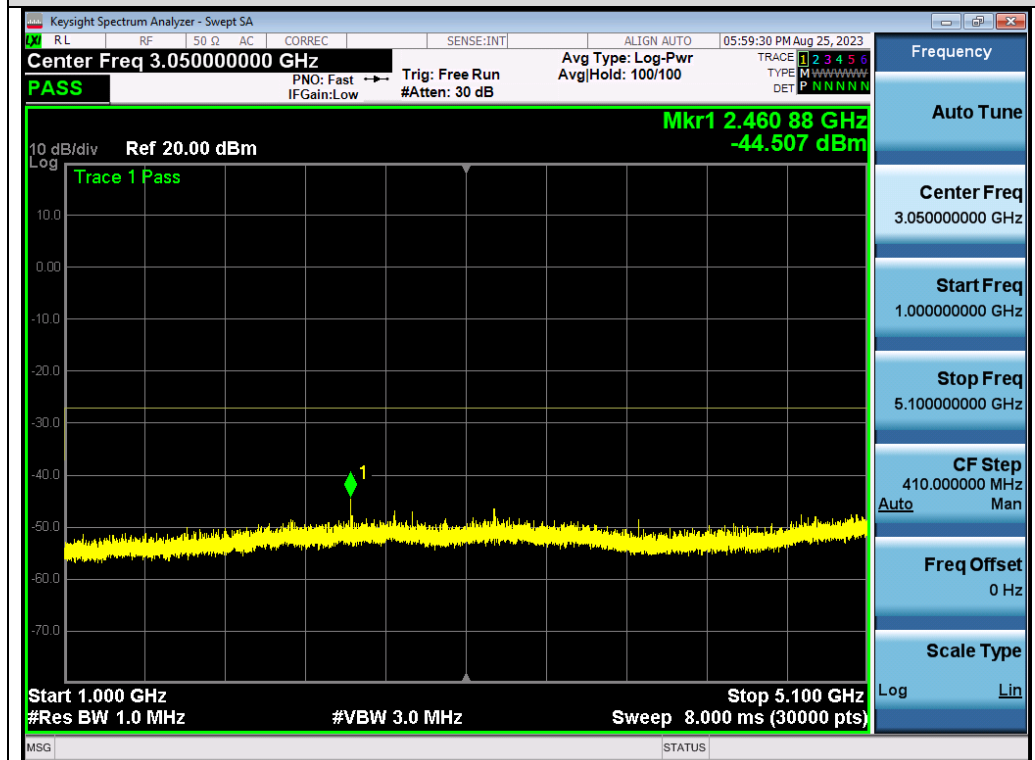
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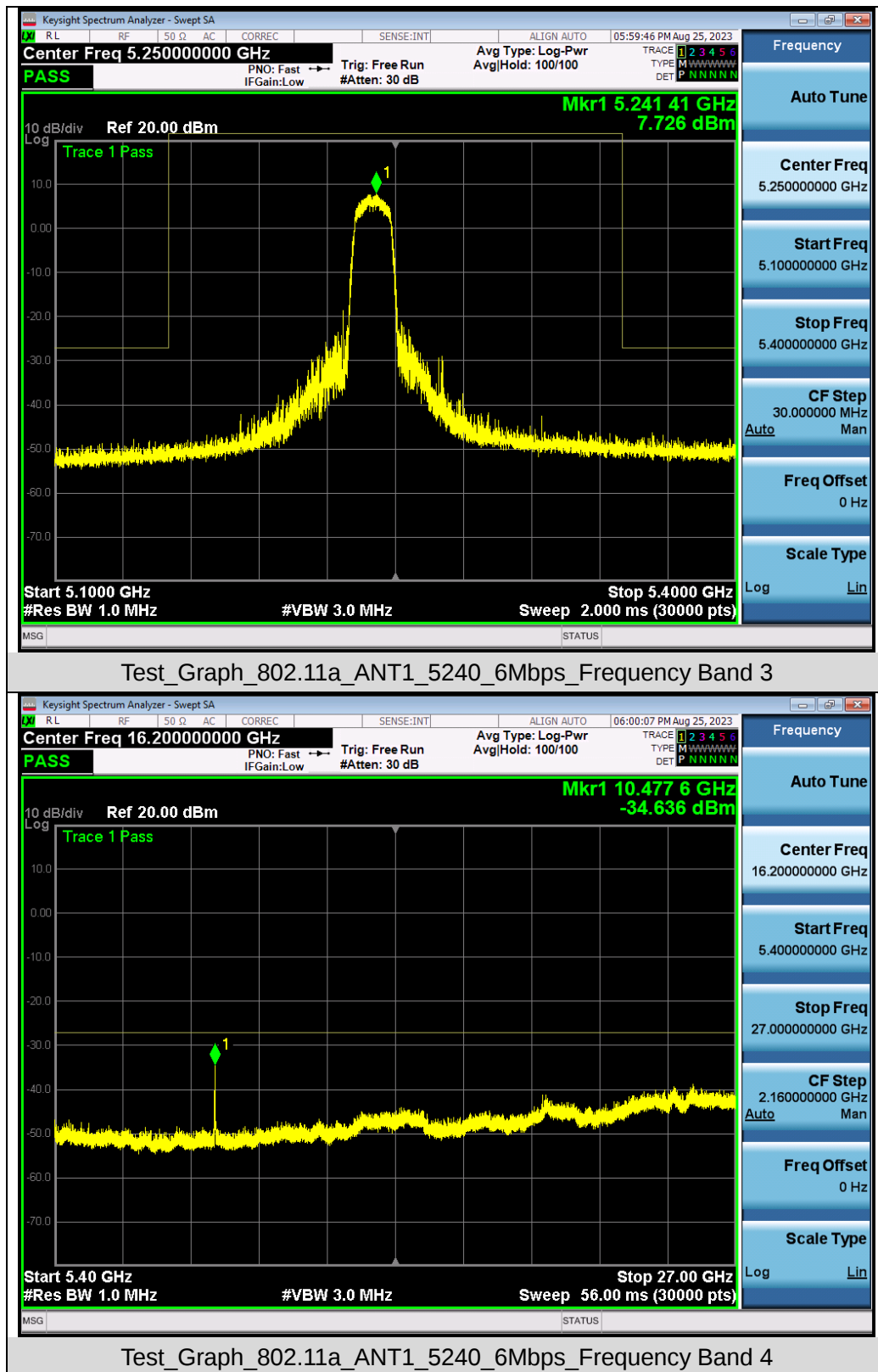


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 1



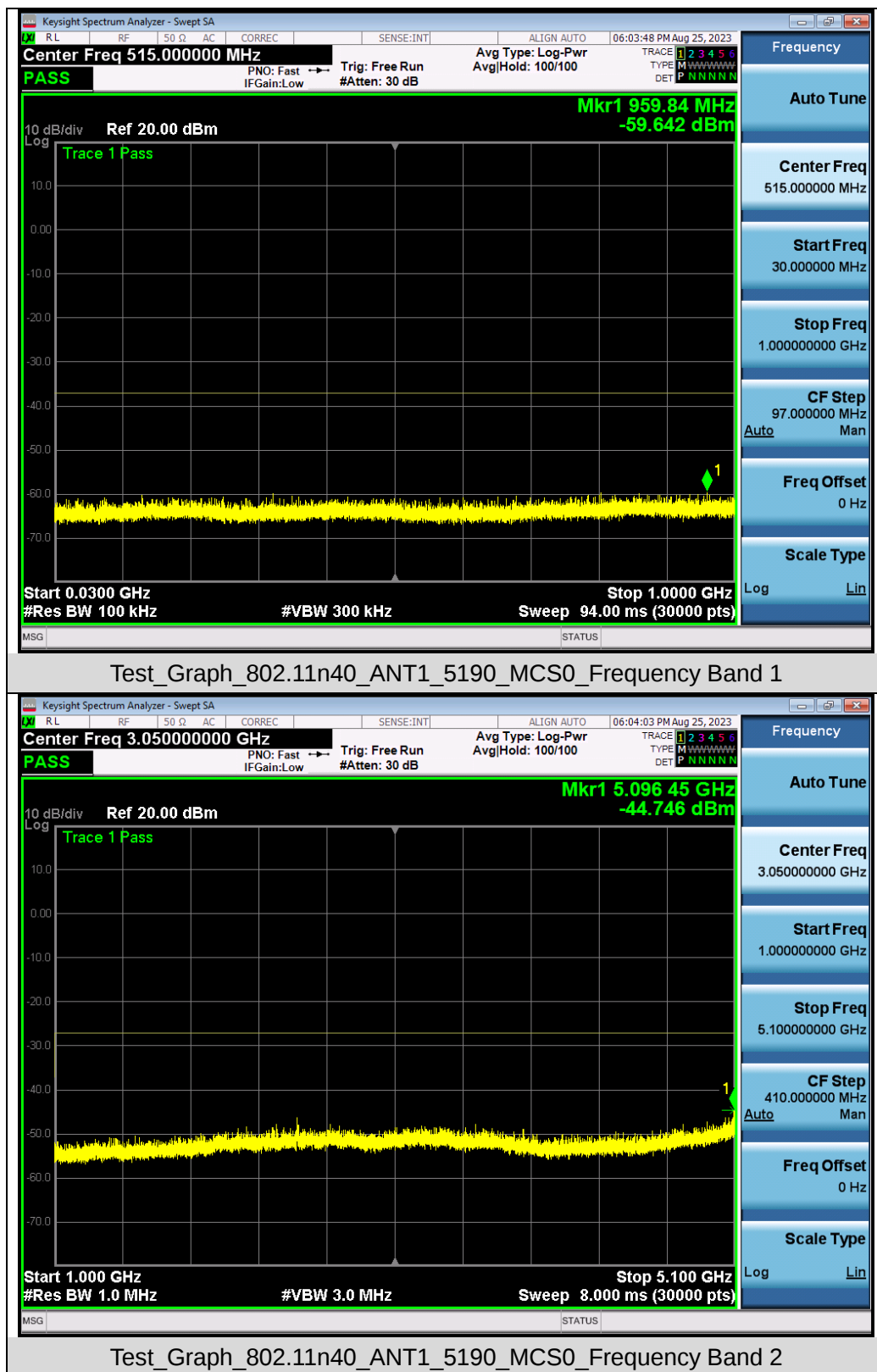
Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 2

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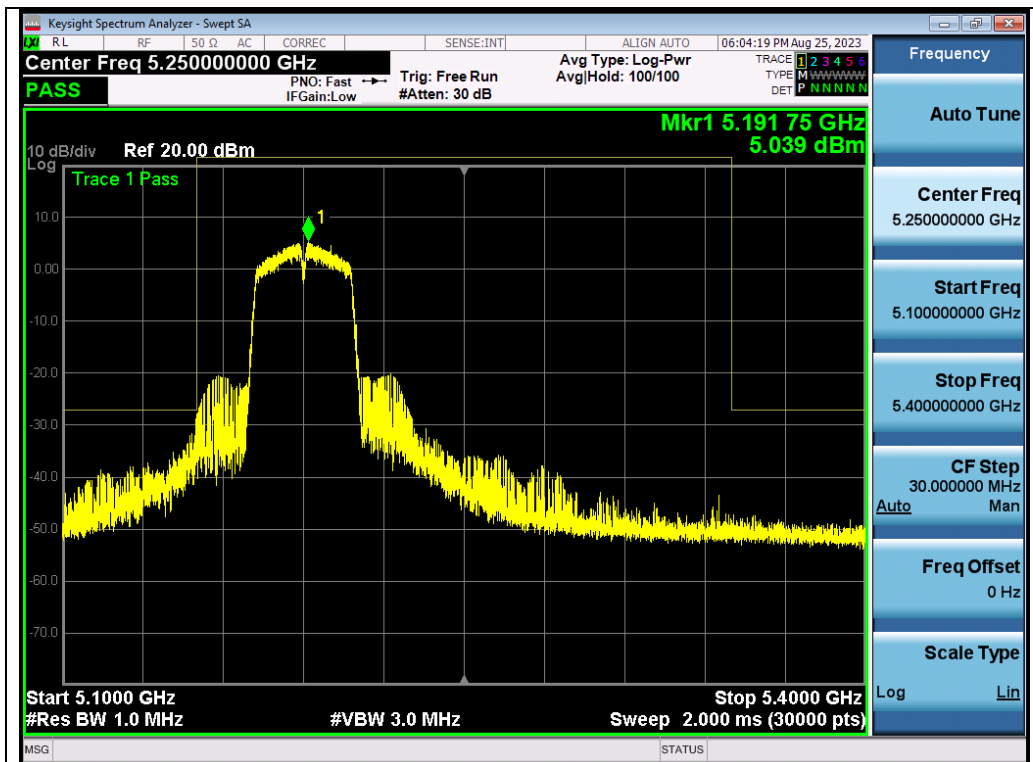


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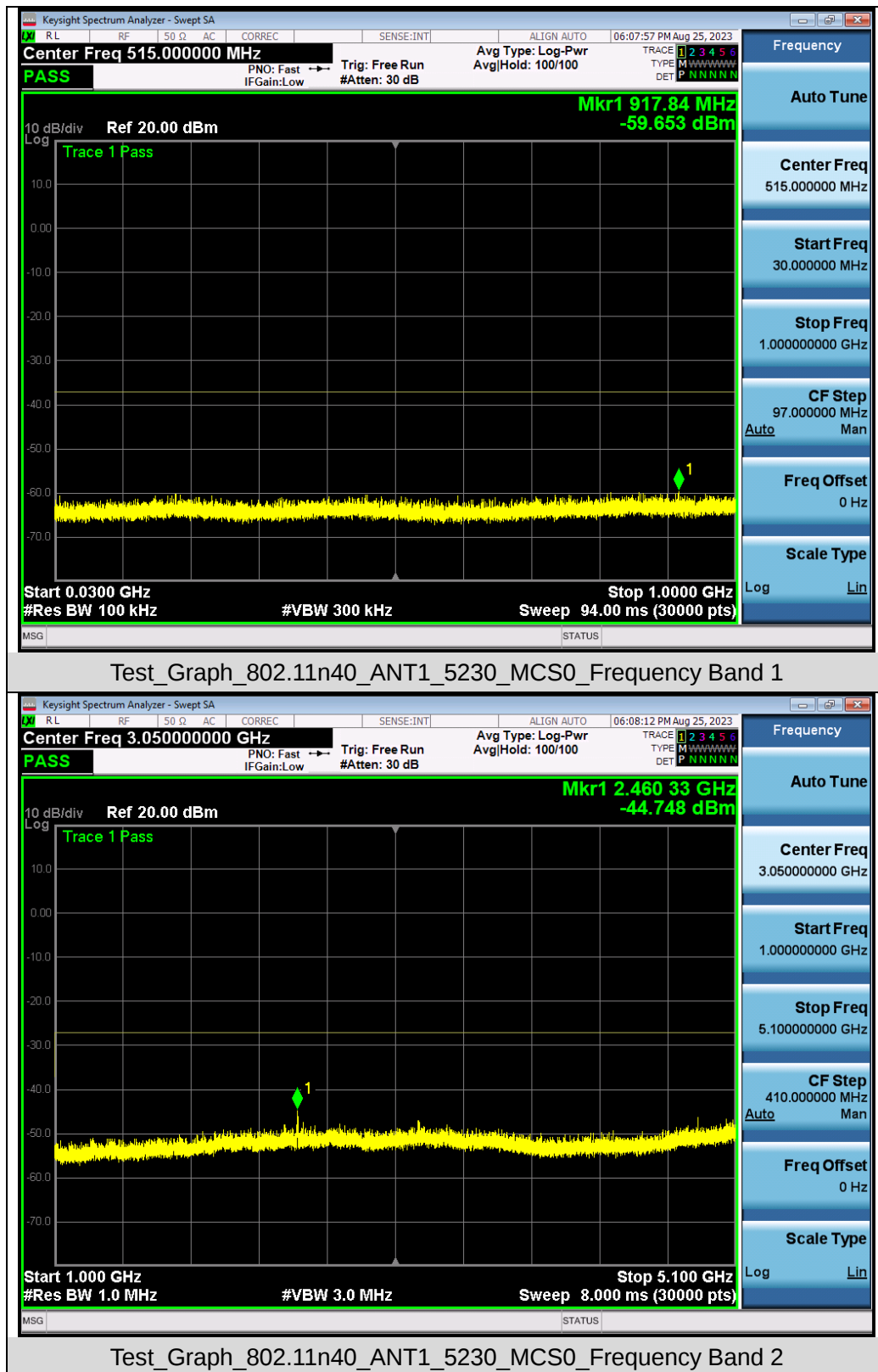
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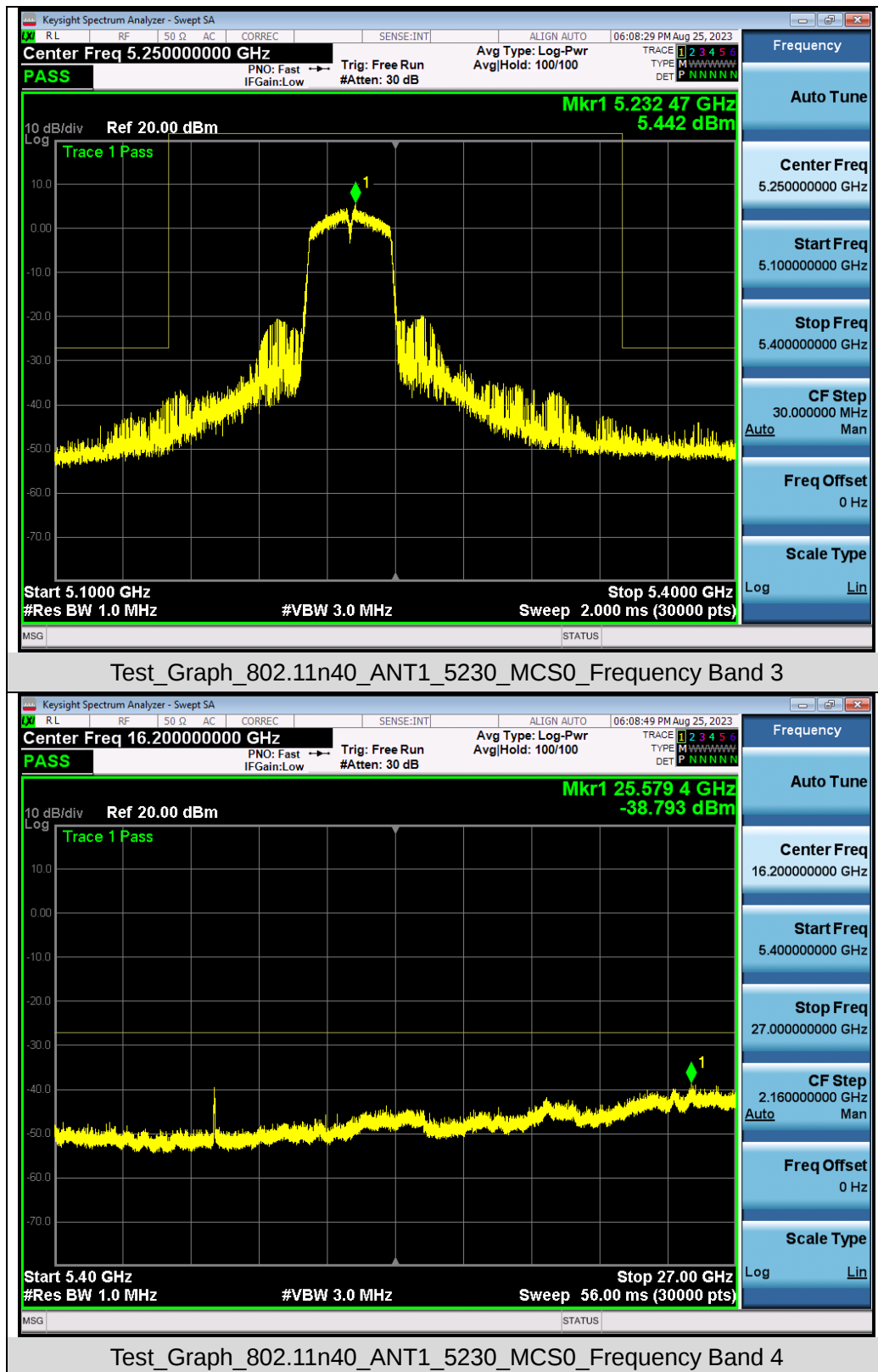
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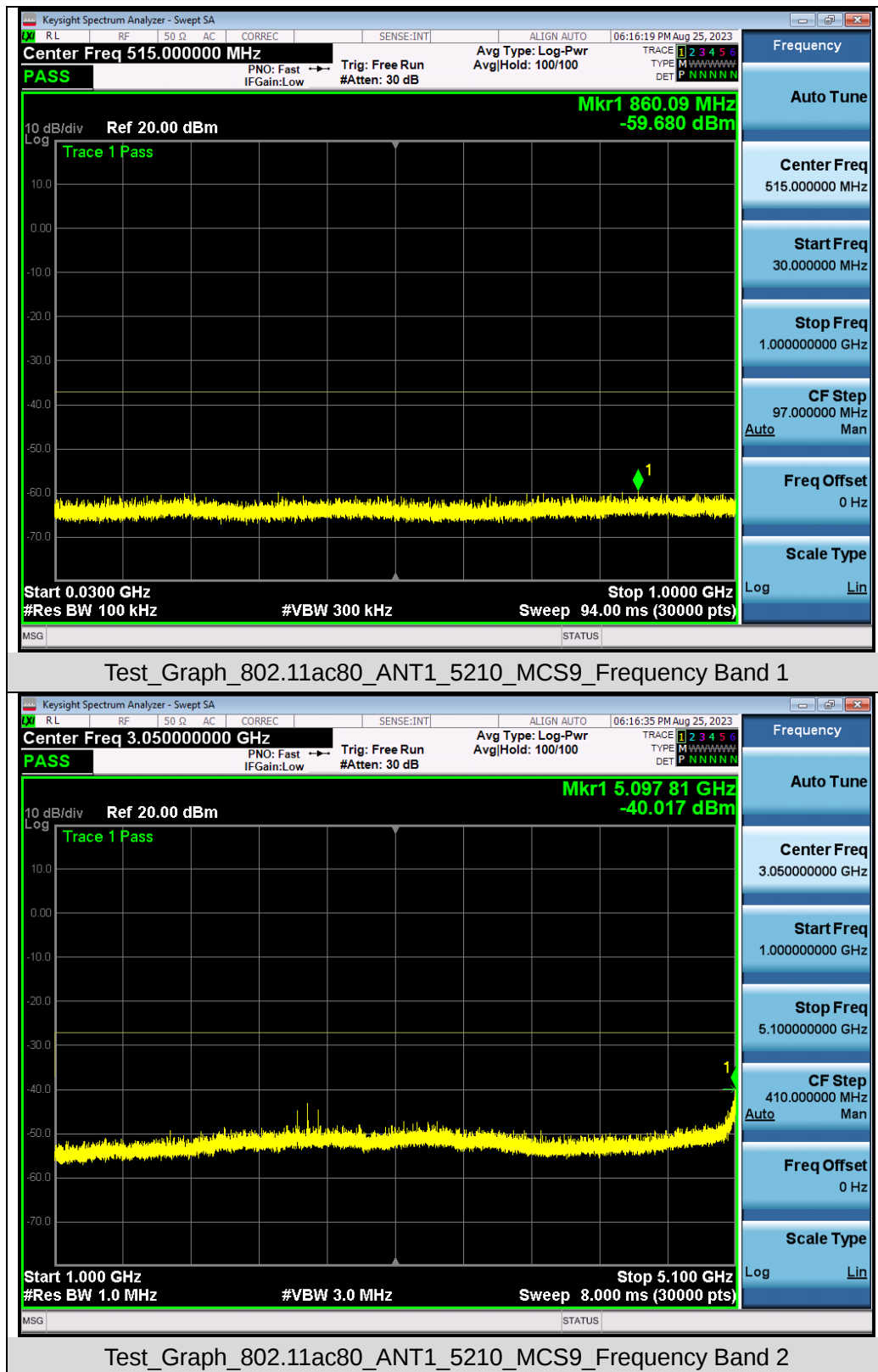
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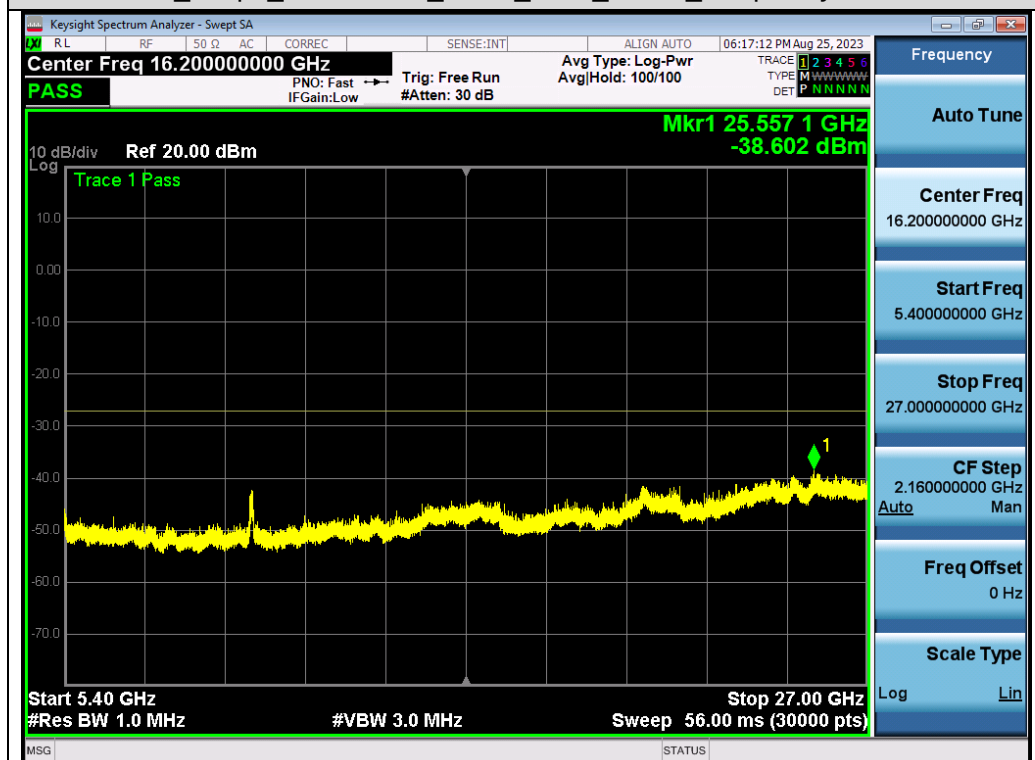
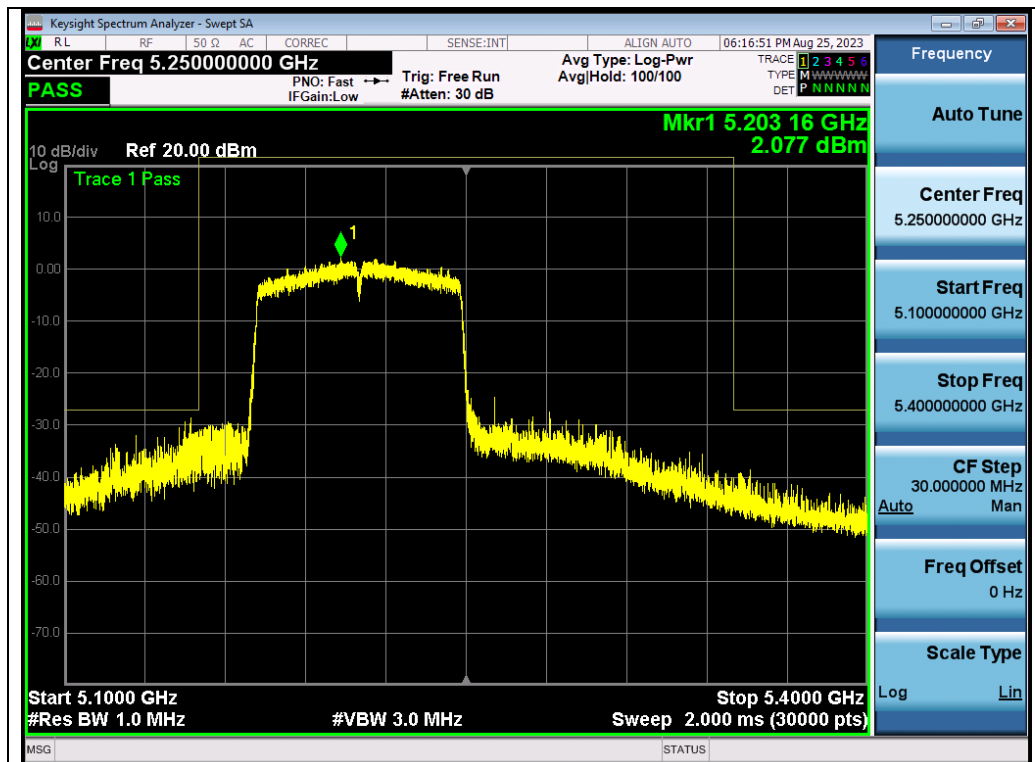


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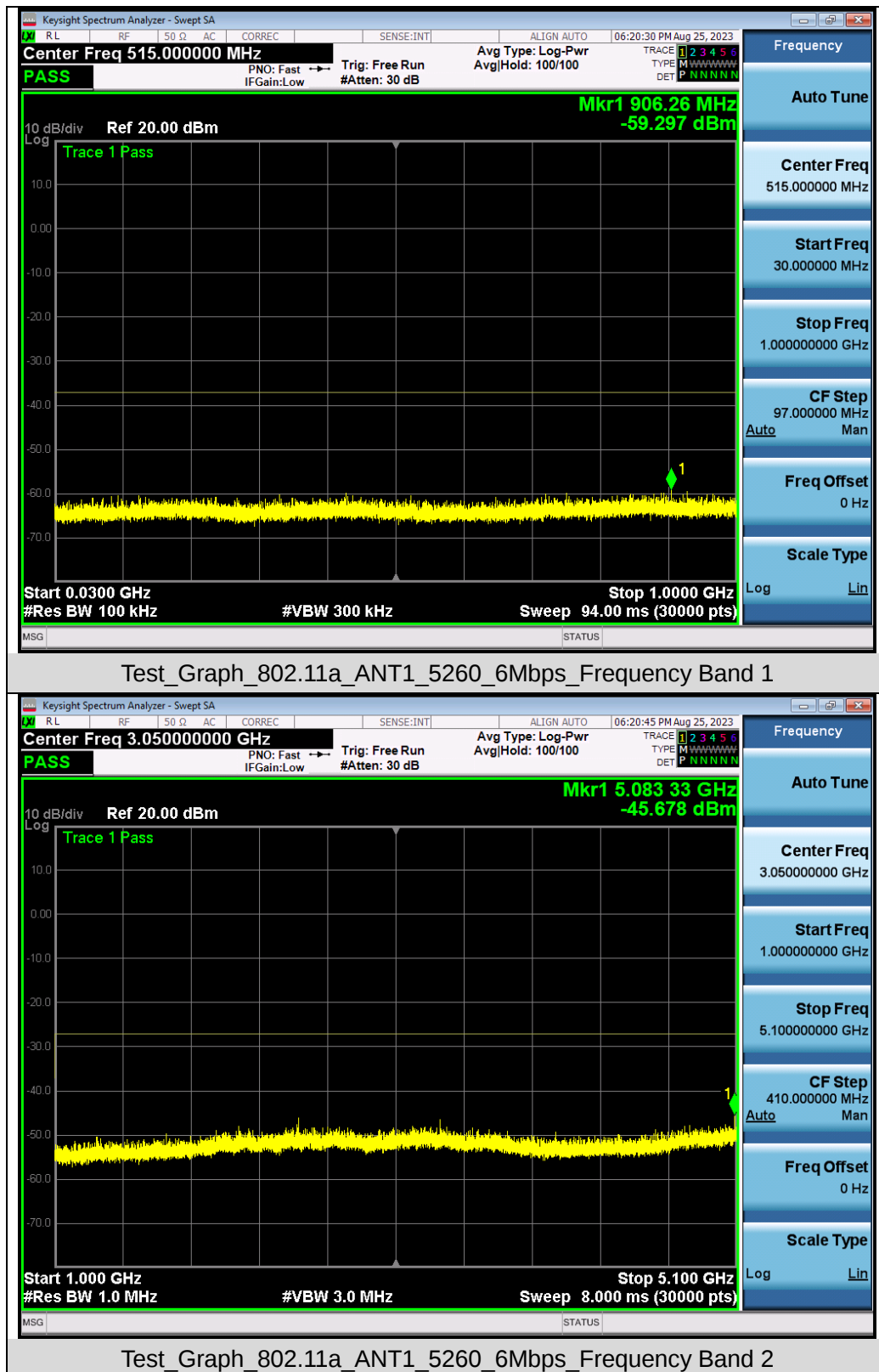
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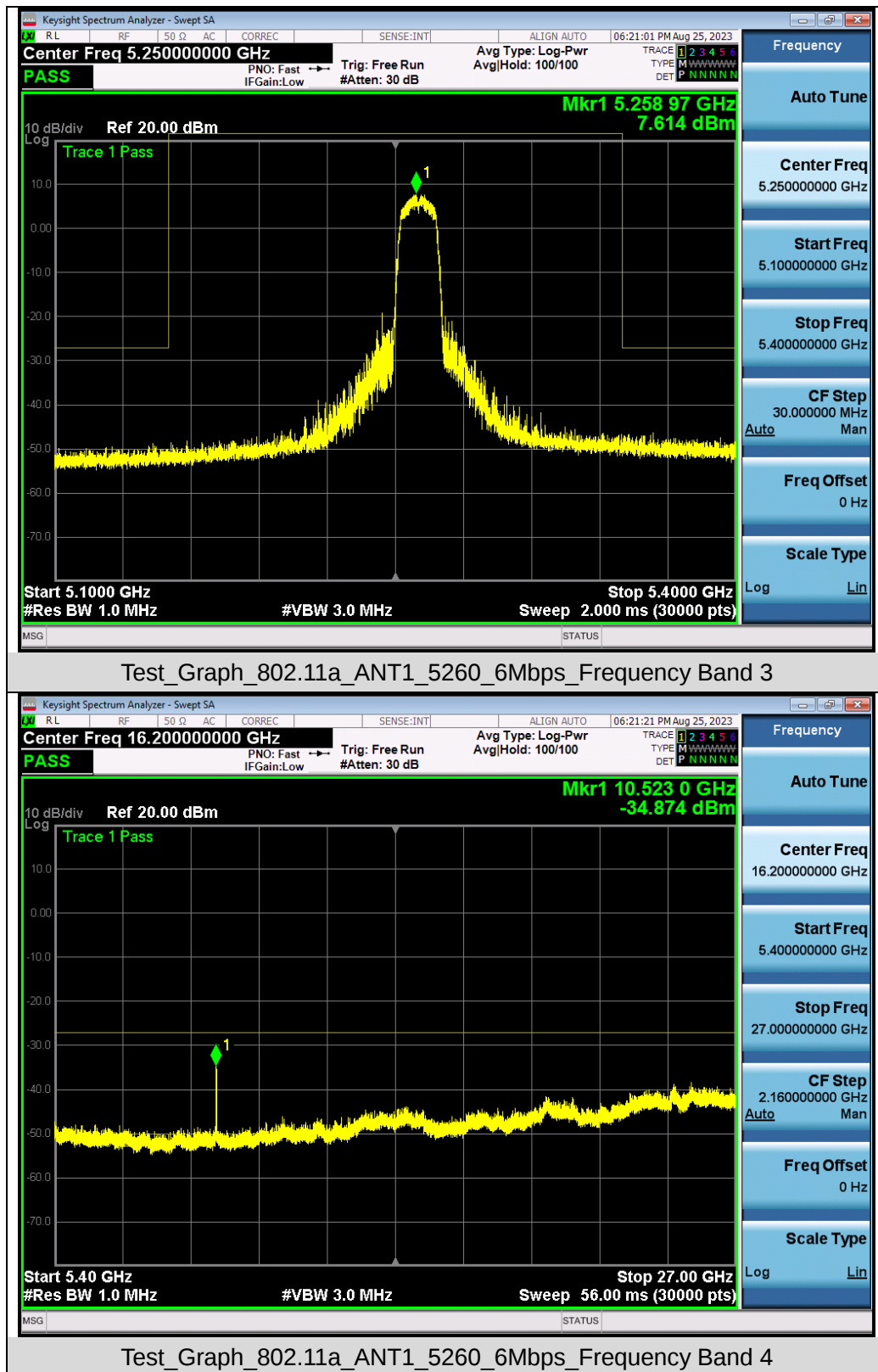
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Test Graphs of Spurious Emissions outside of the 5.25-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band

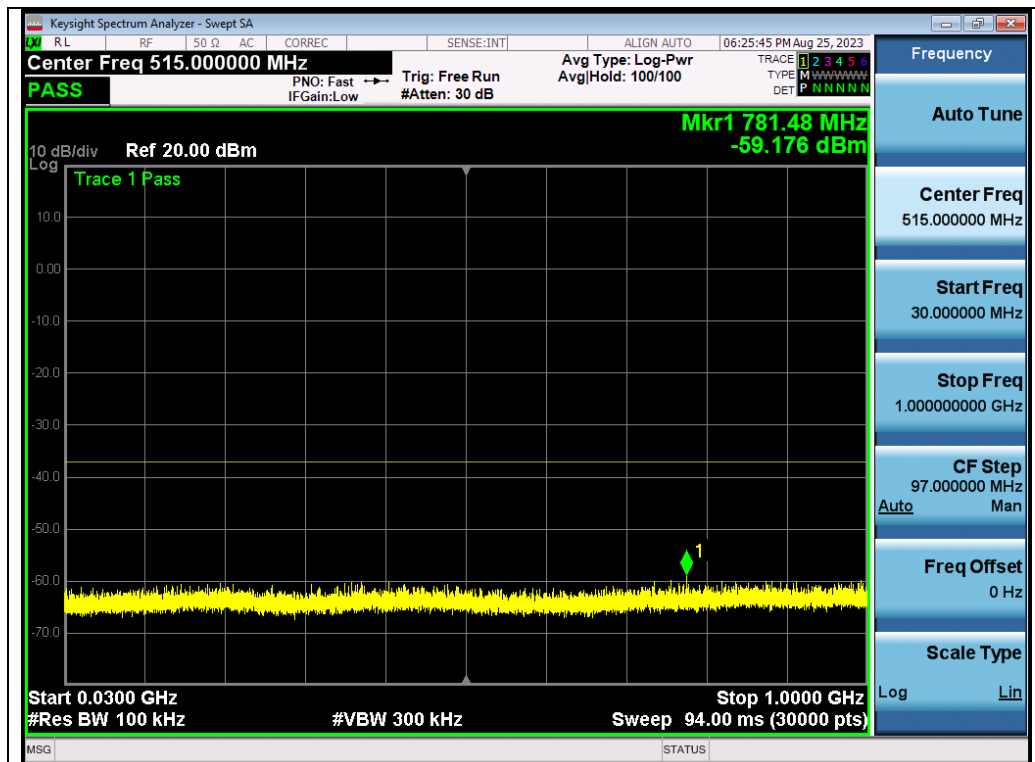


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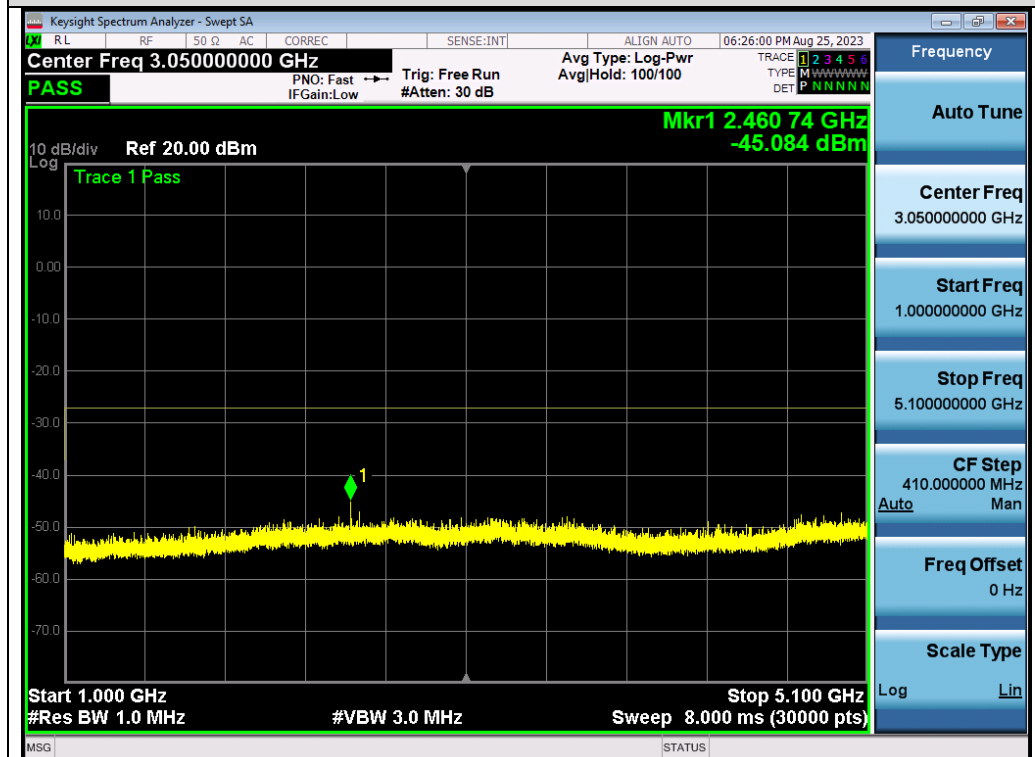


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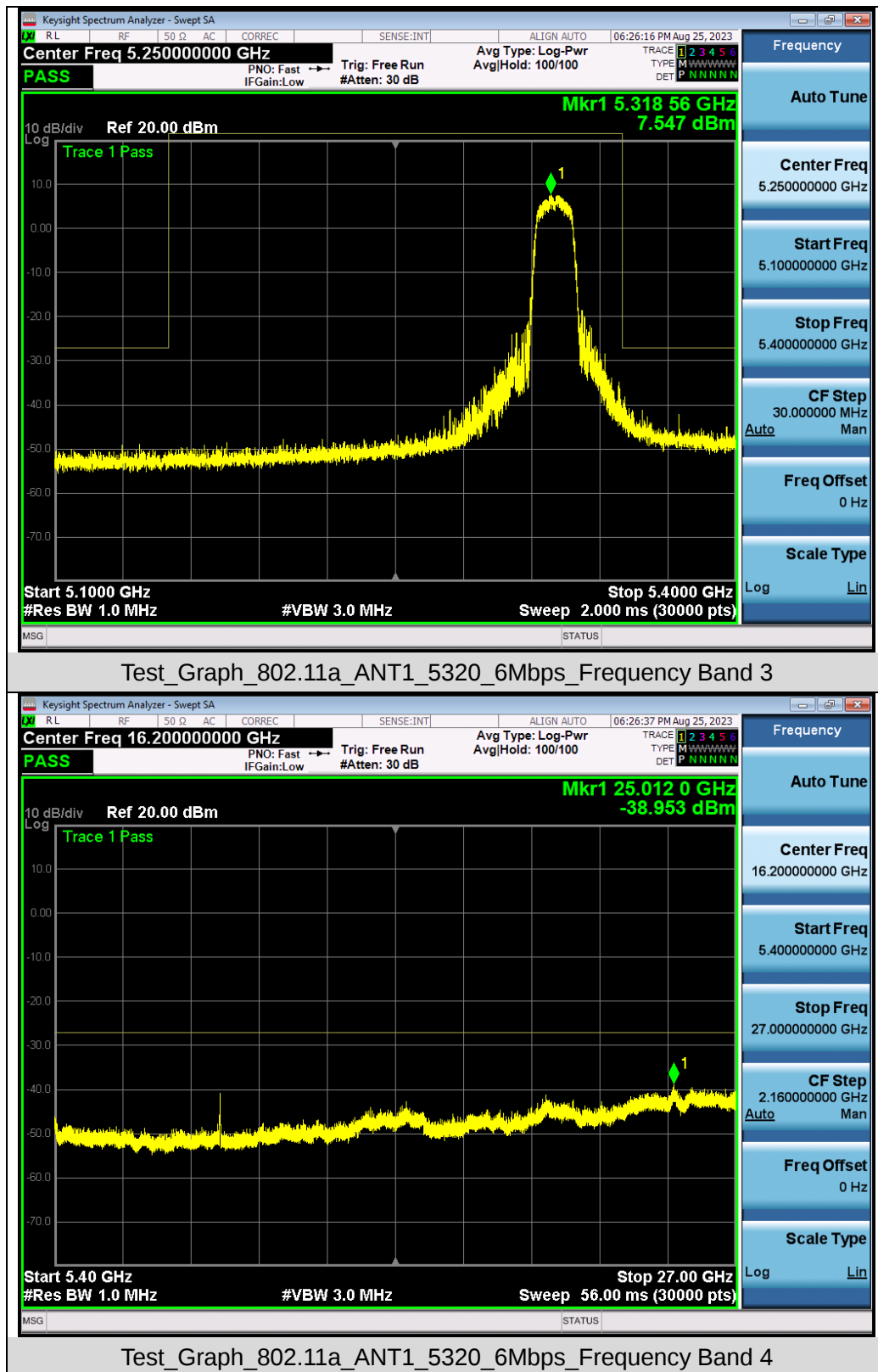
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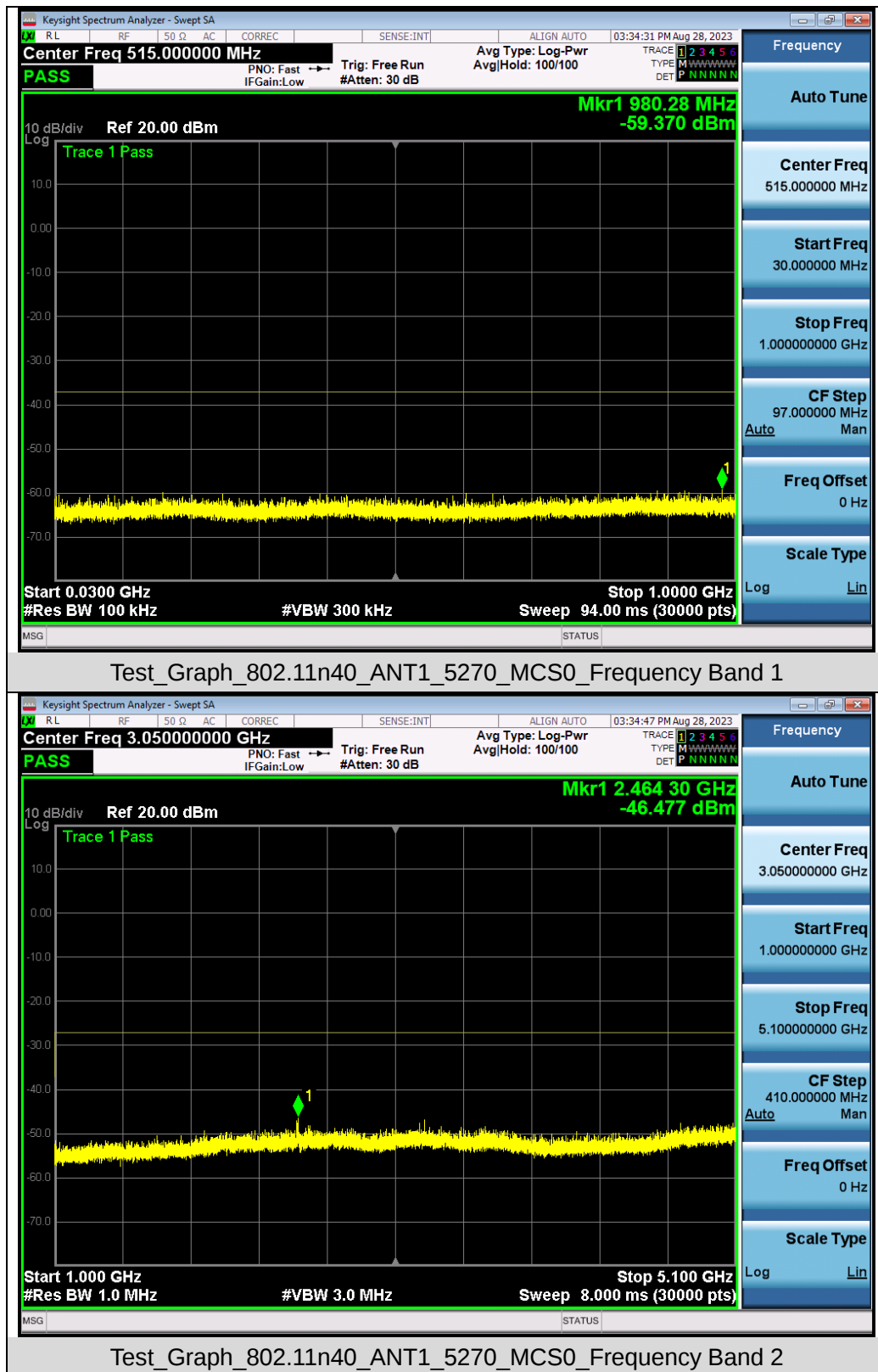
Test_Graph_802.11a_ANT1_5320_6Mbps_Frequency Band 2

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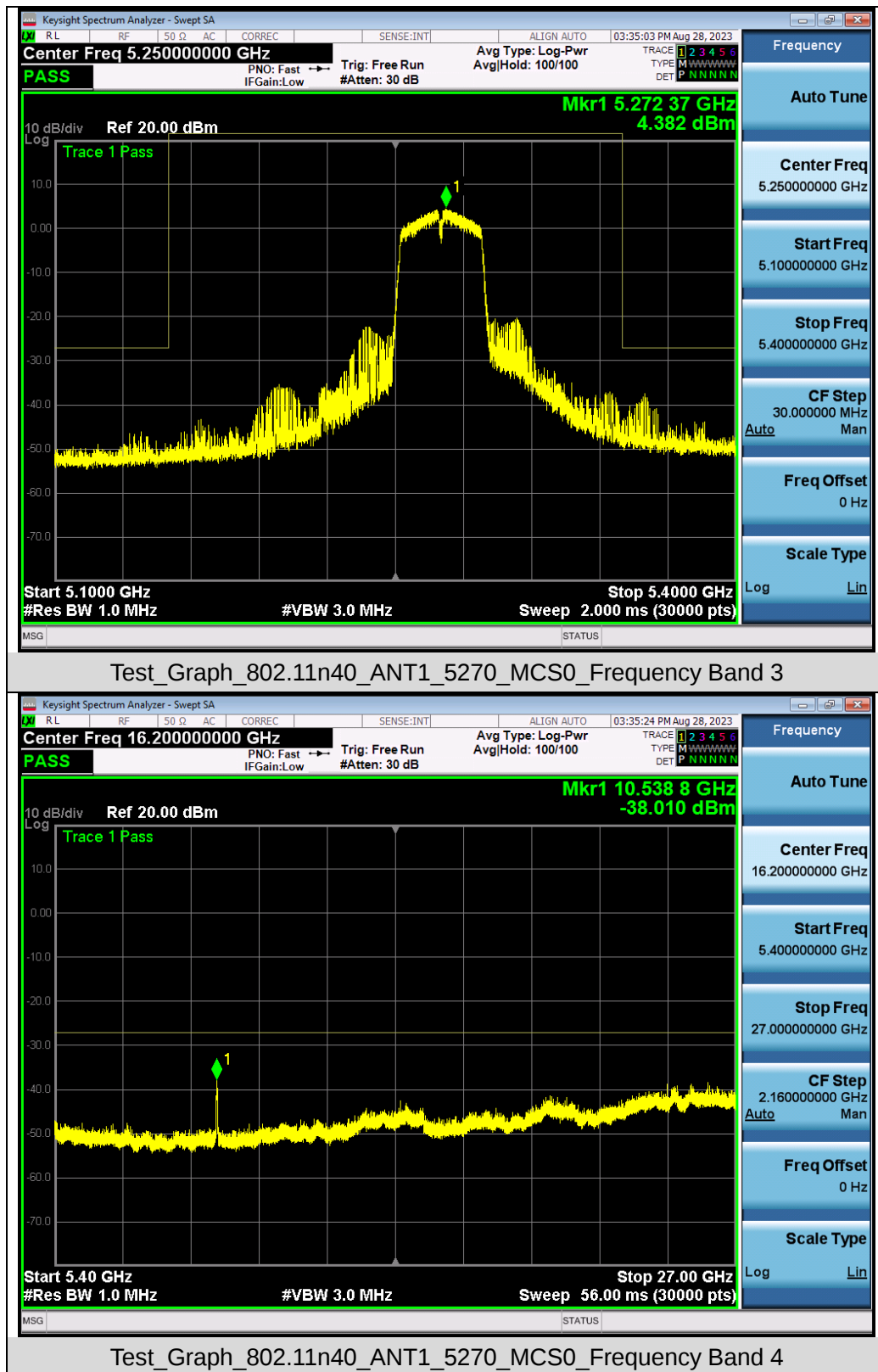
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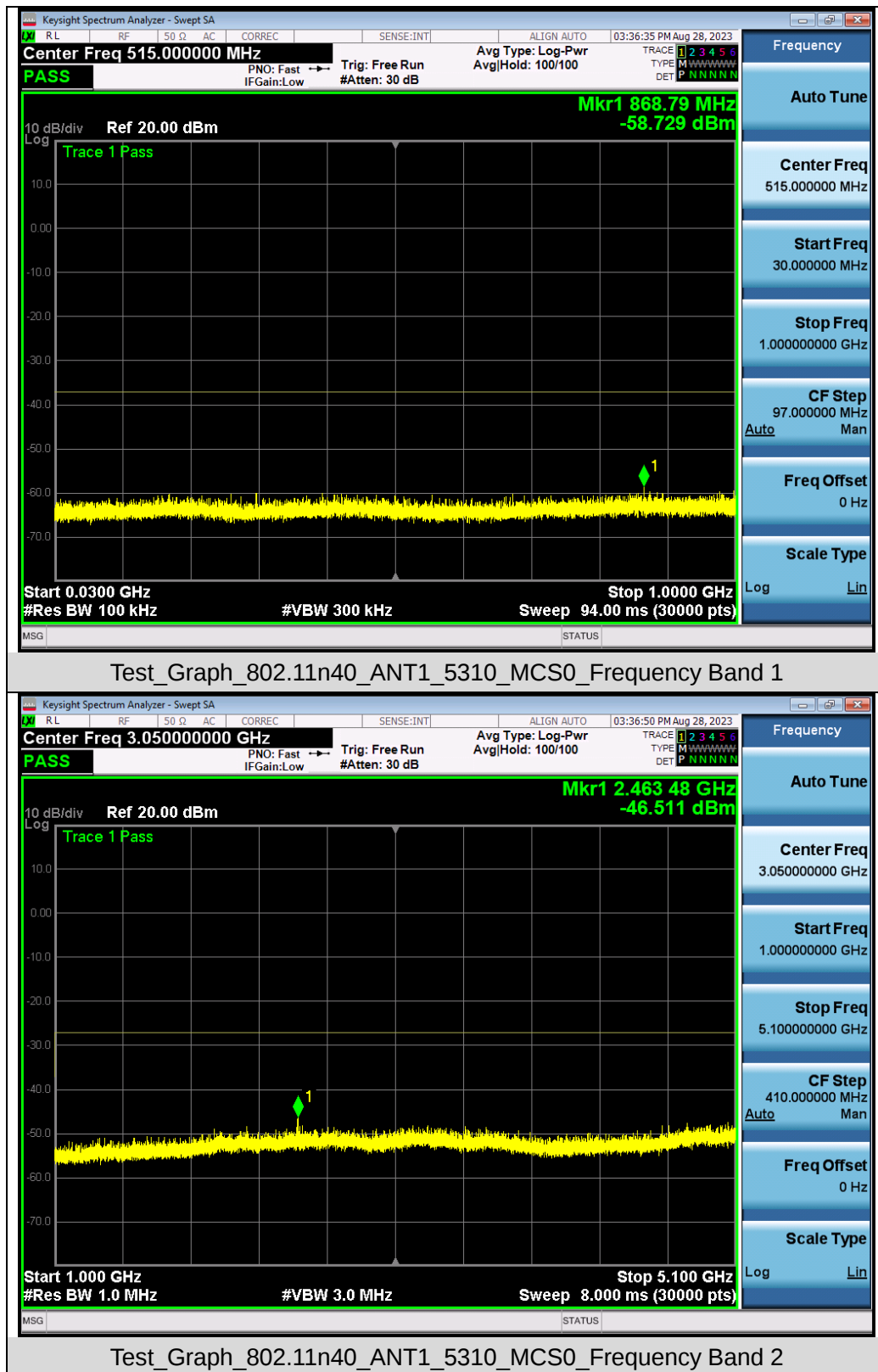
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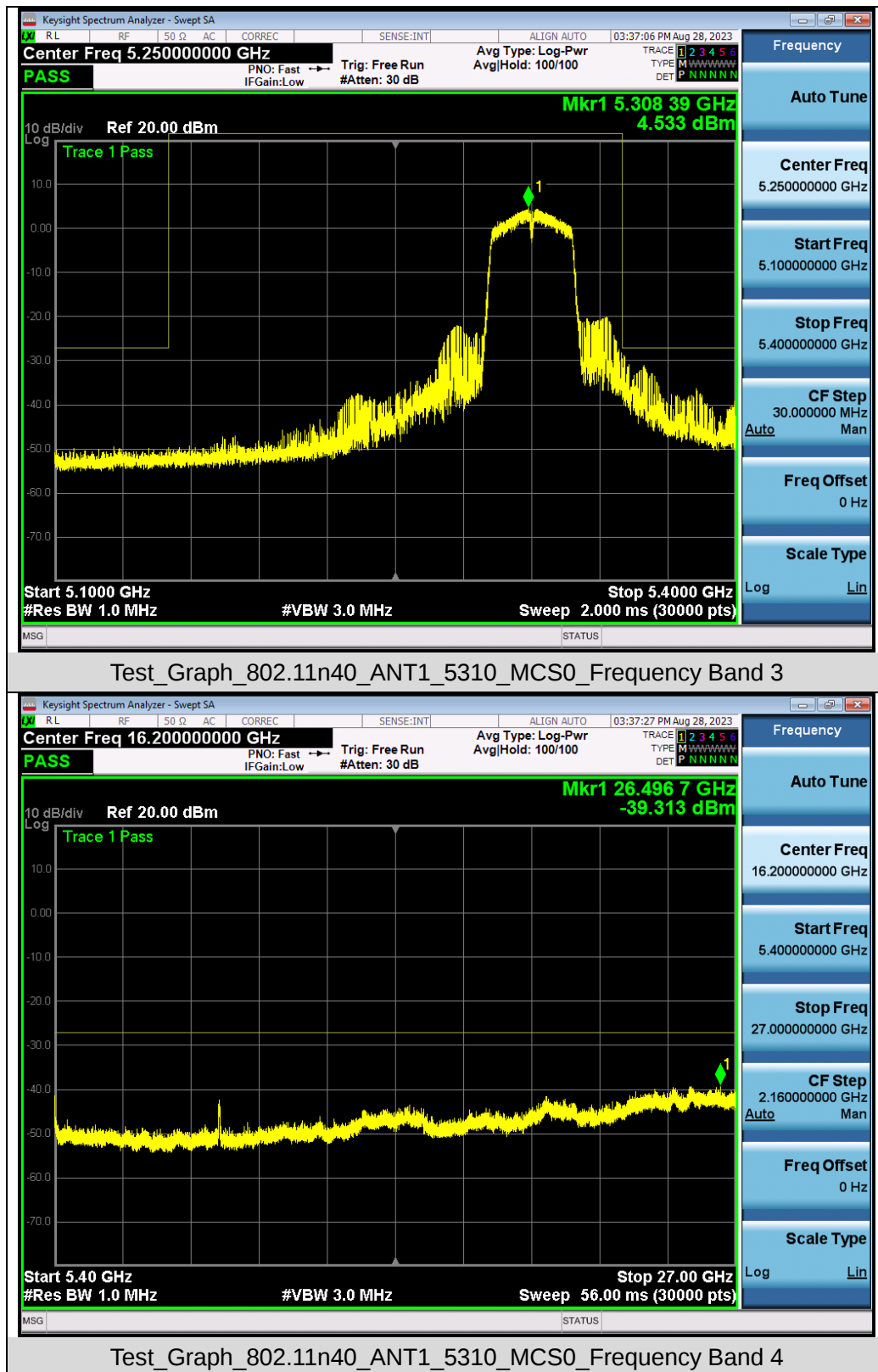


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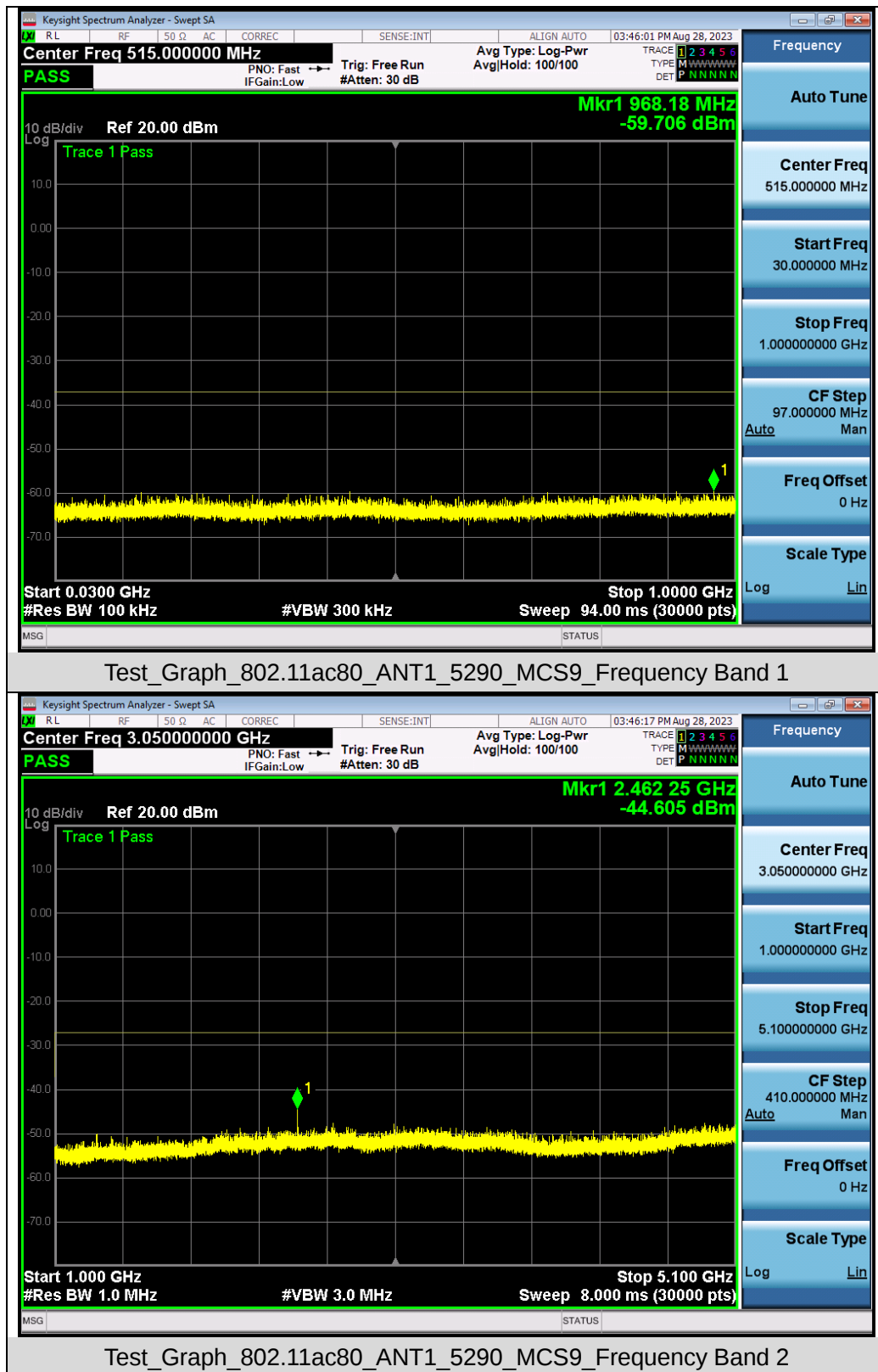
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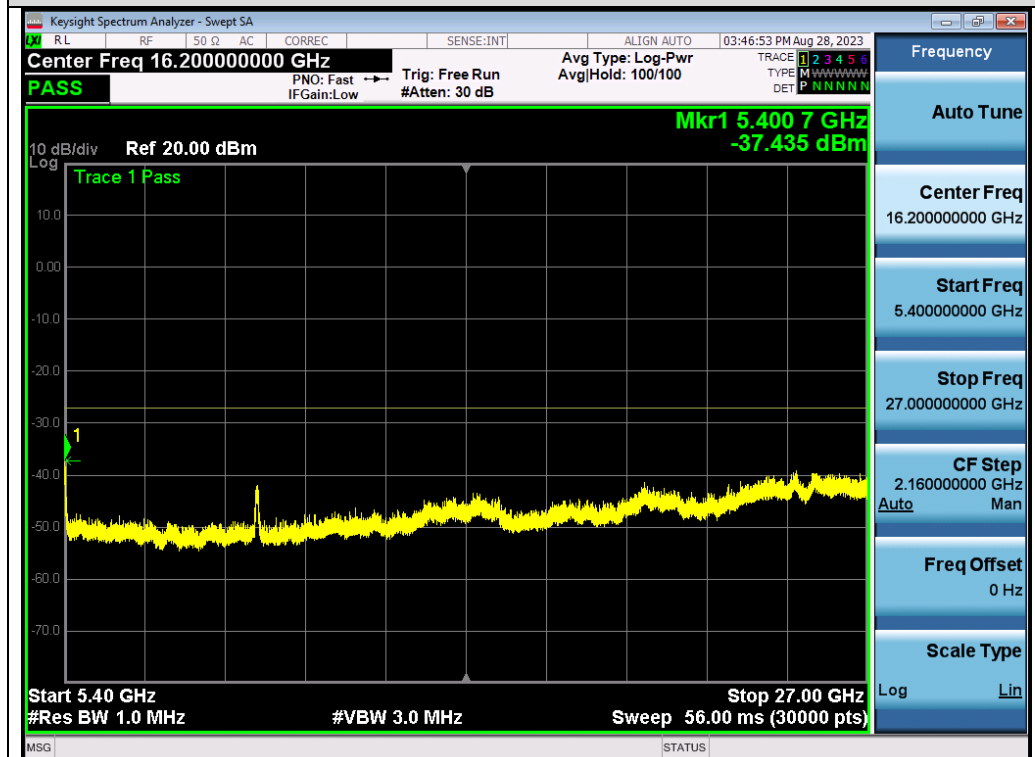
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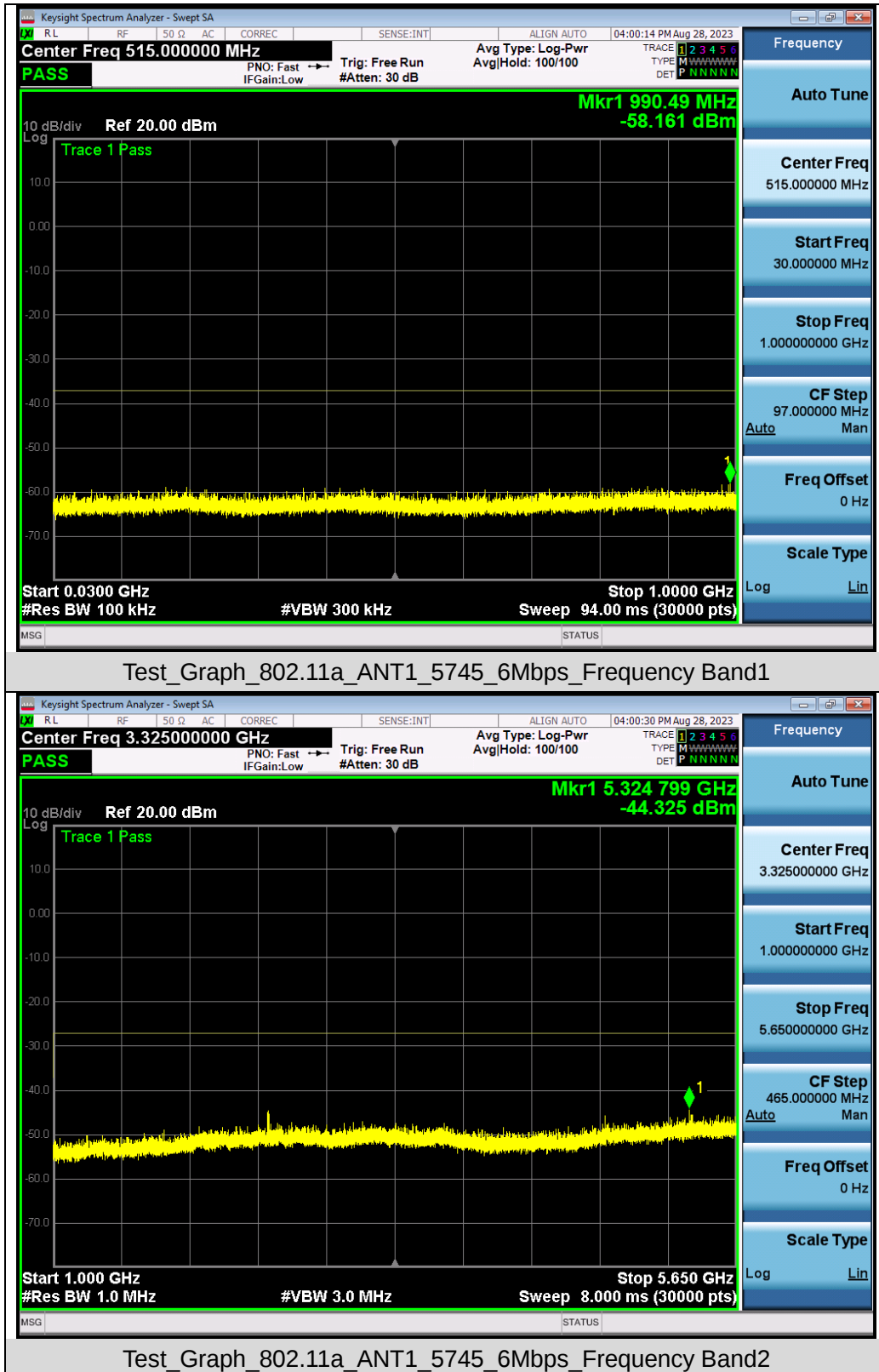
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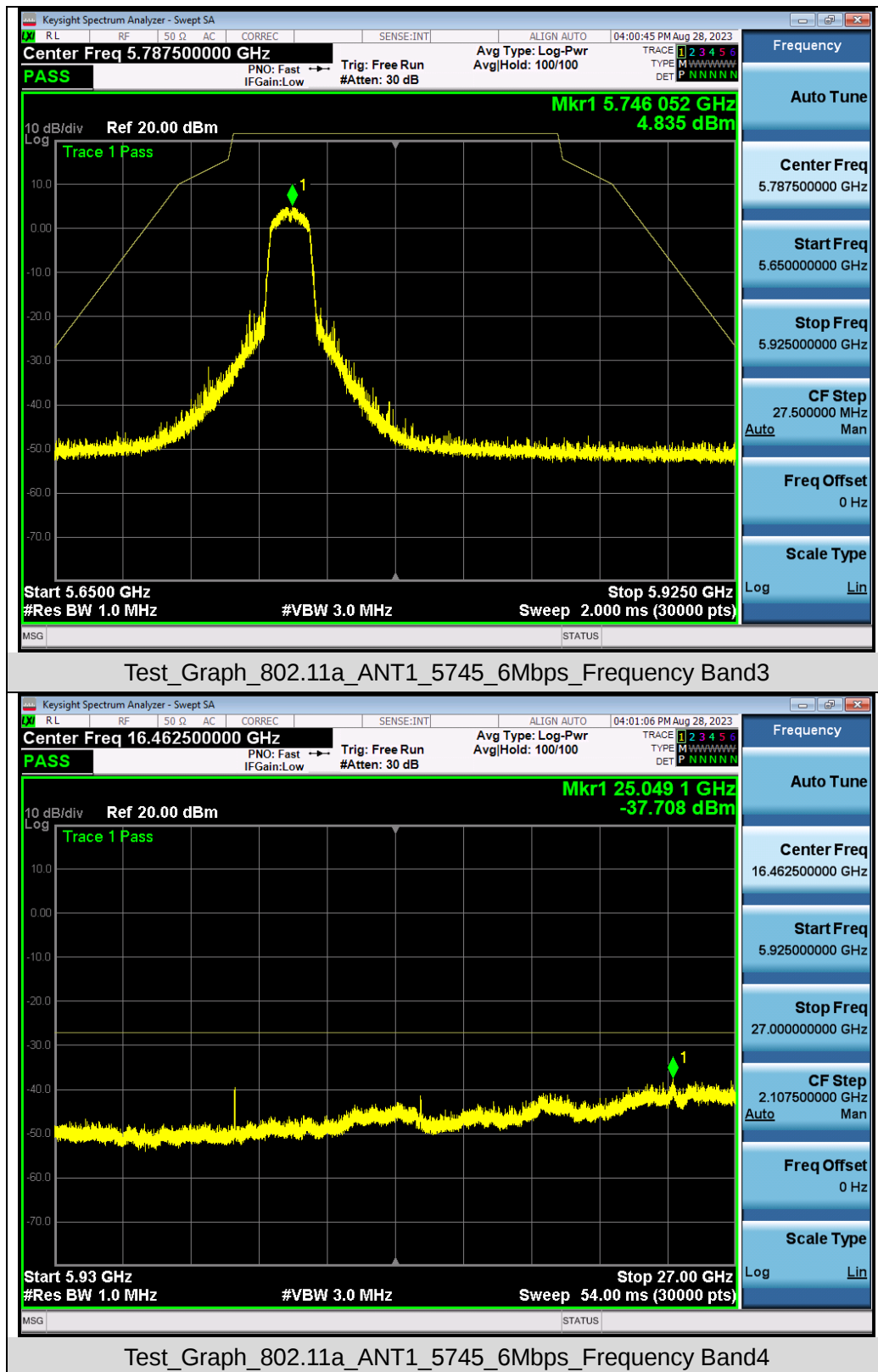
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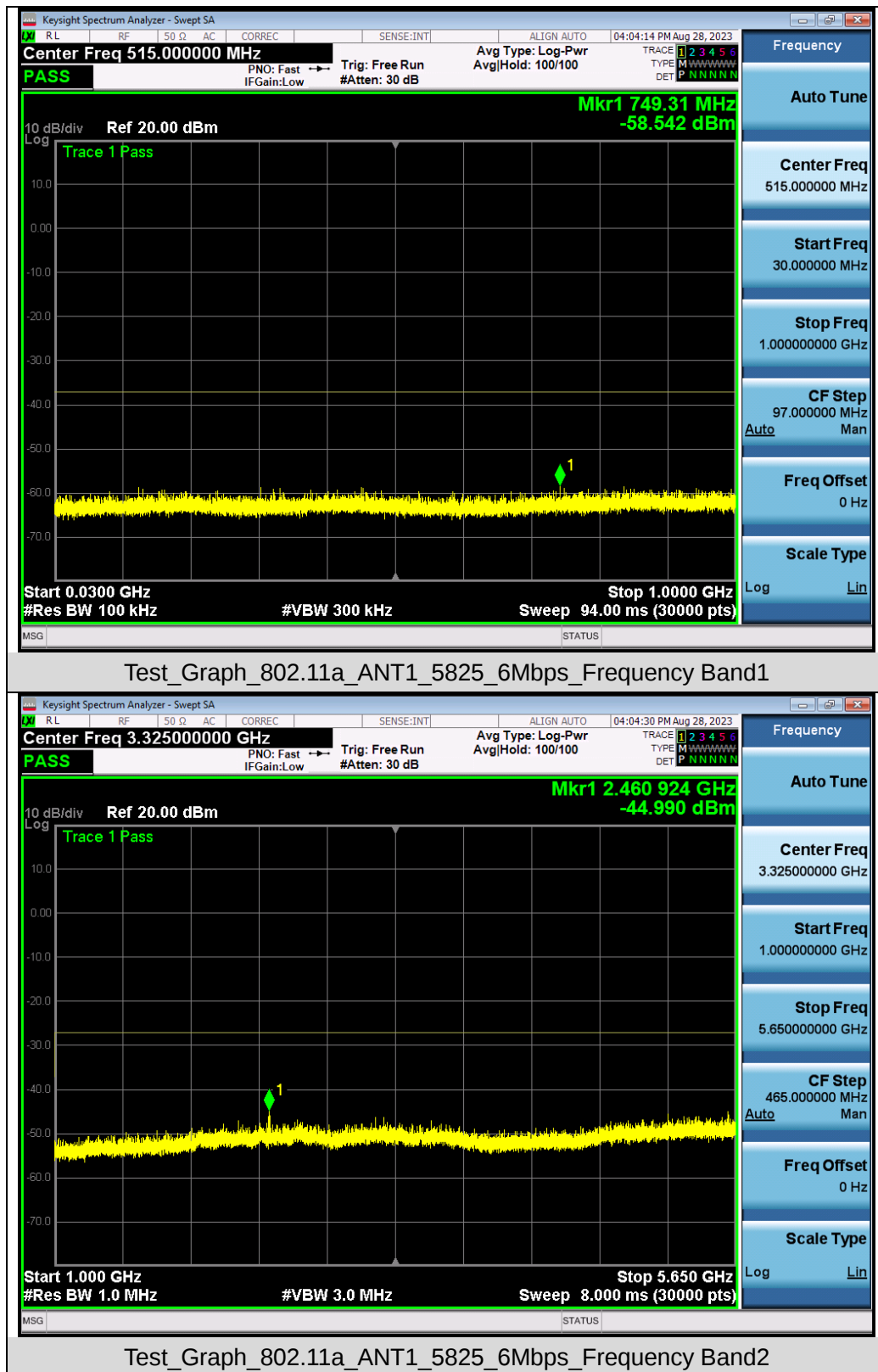
Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band



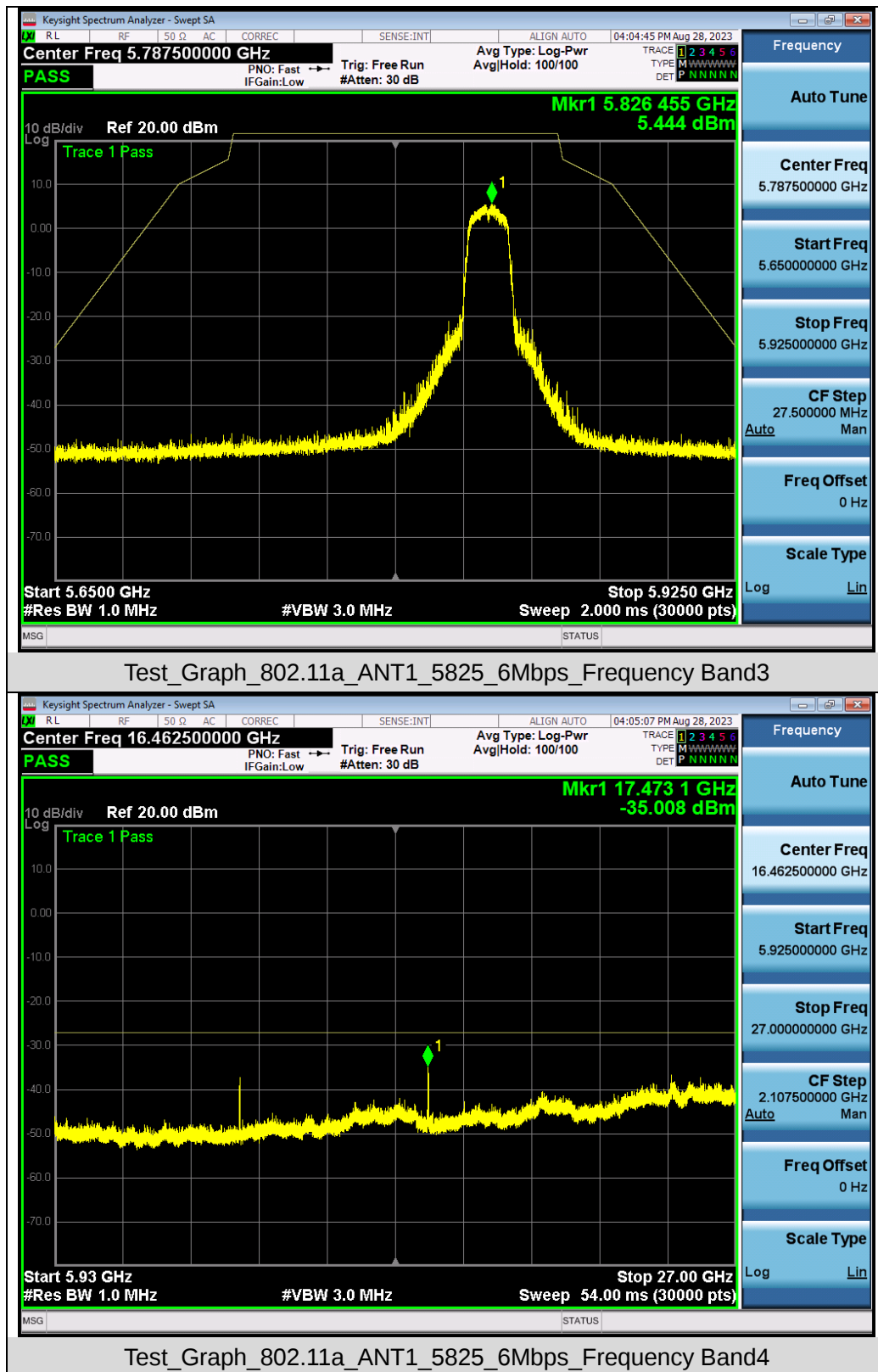
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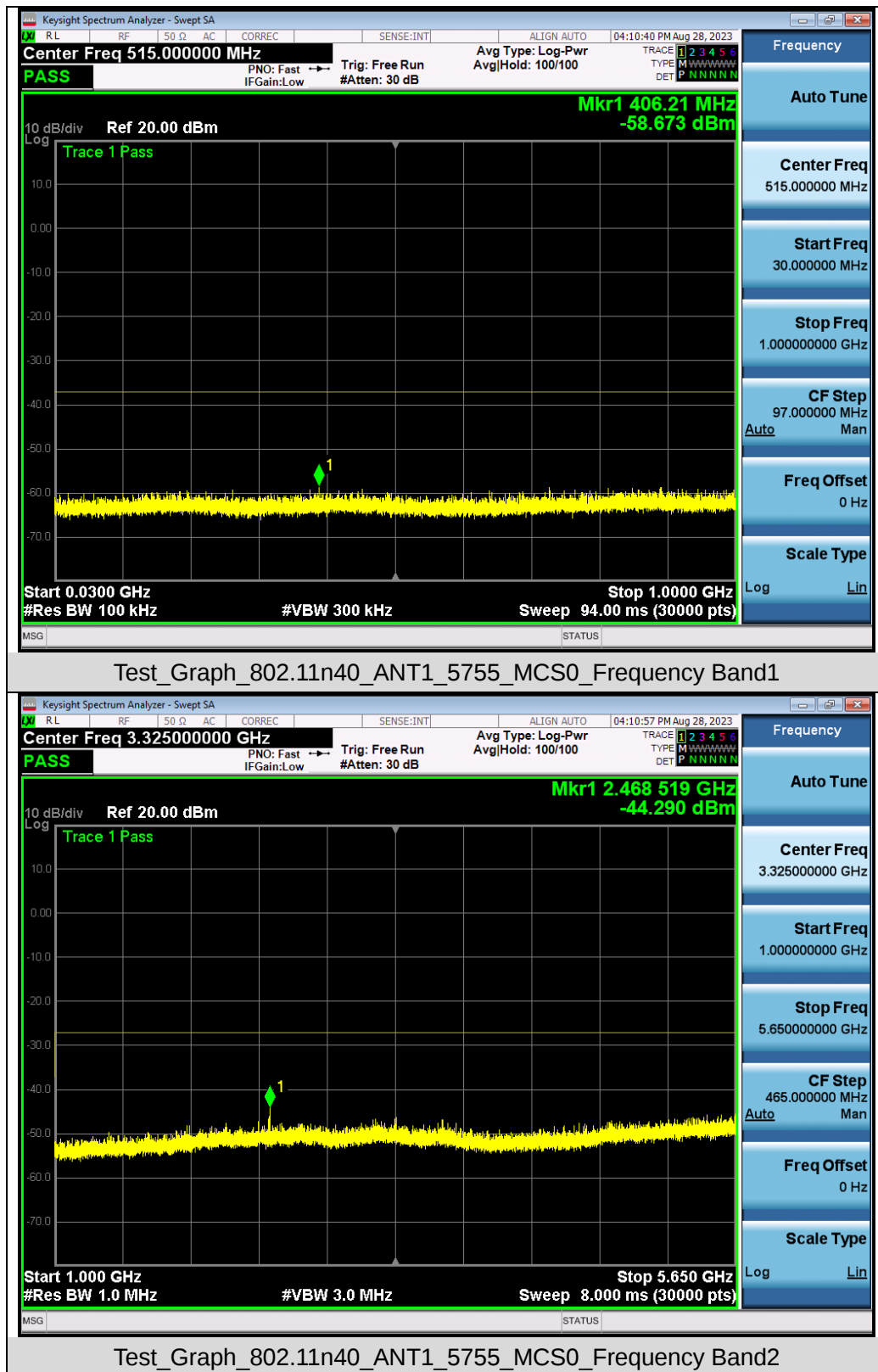
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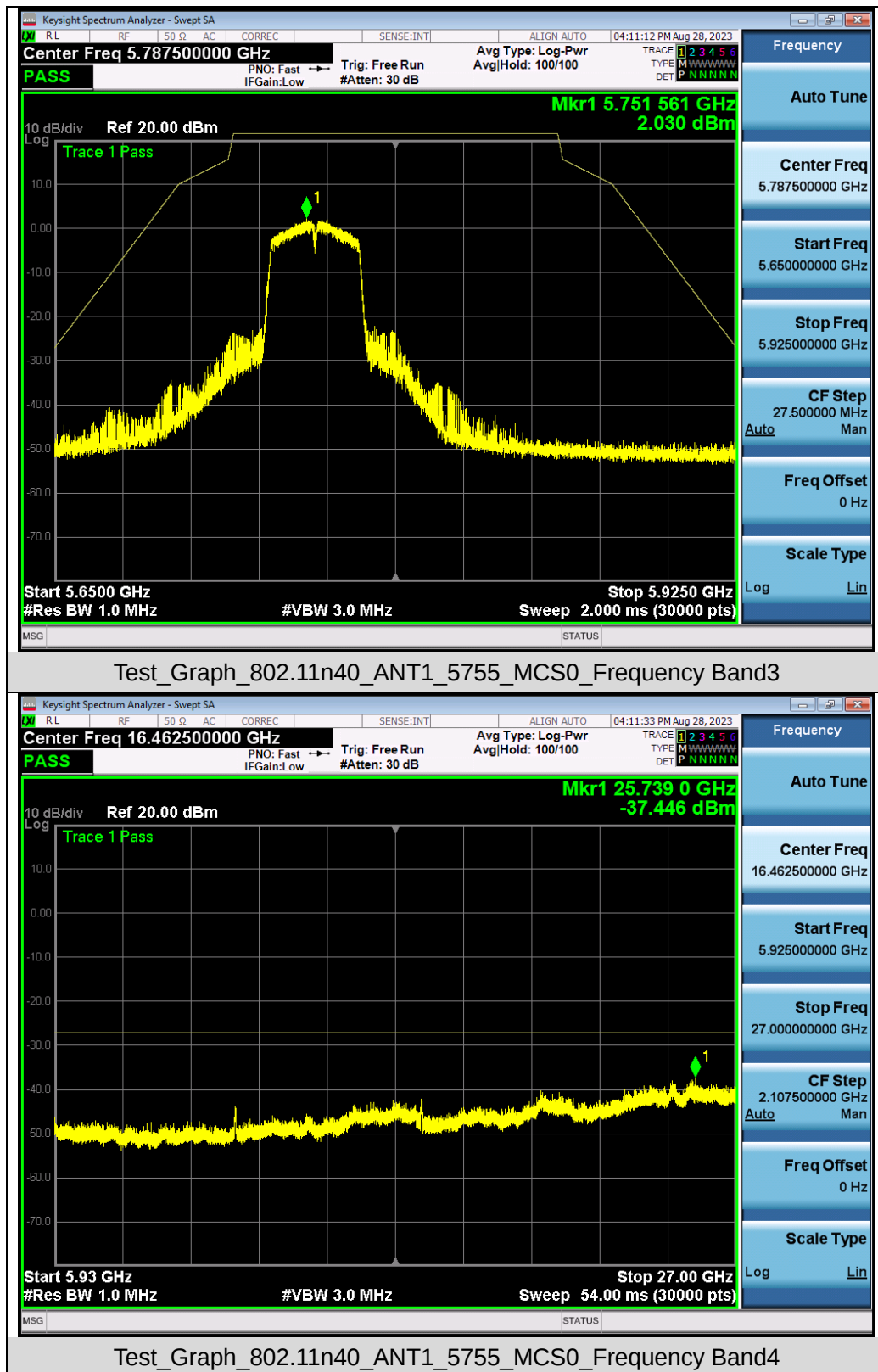


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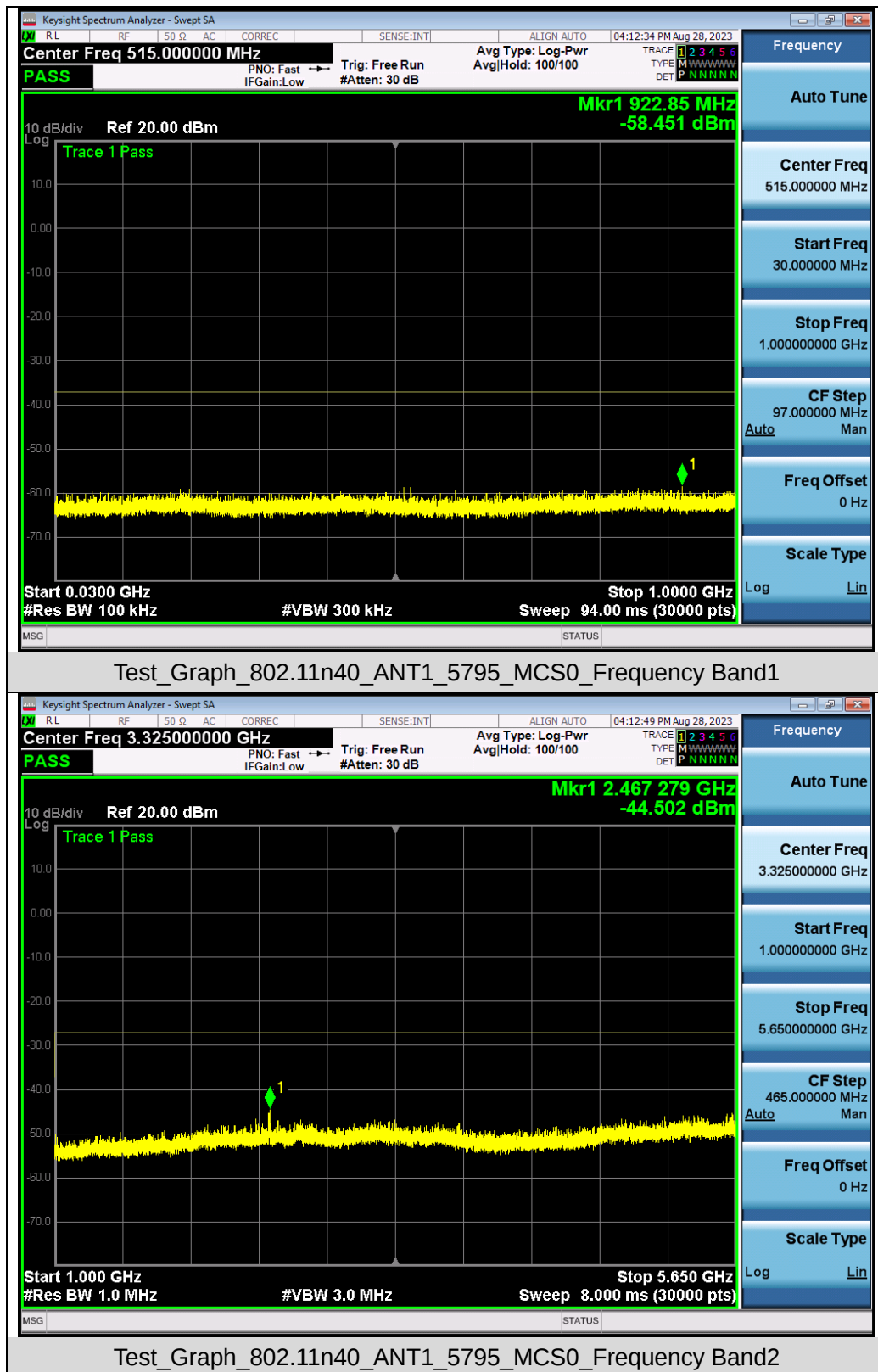


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