

9. CONDUCTED SPURIOUS EMISSION

9.1 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:

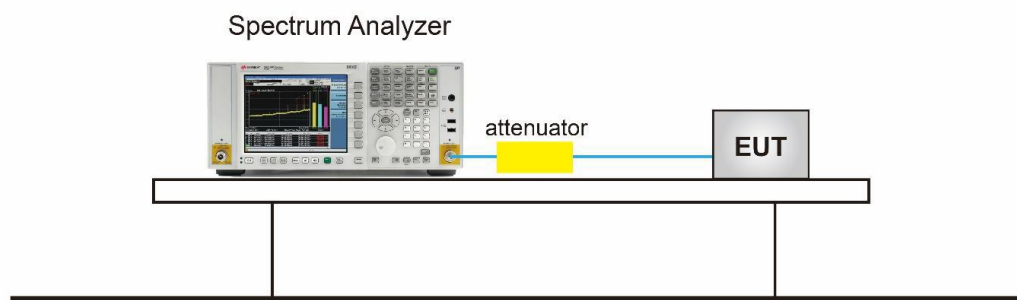
$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

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.

9.2 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.

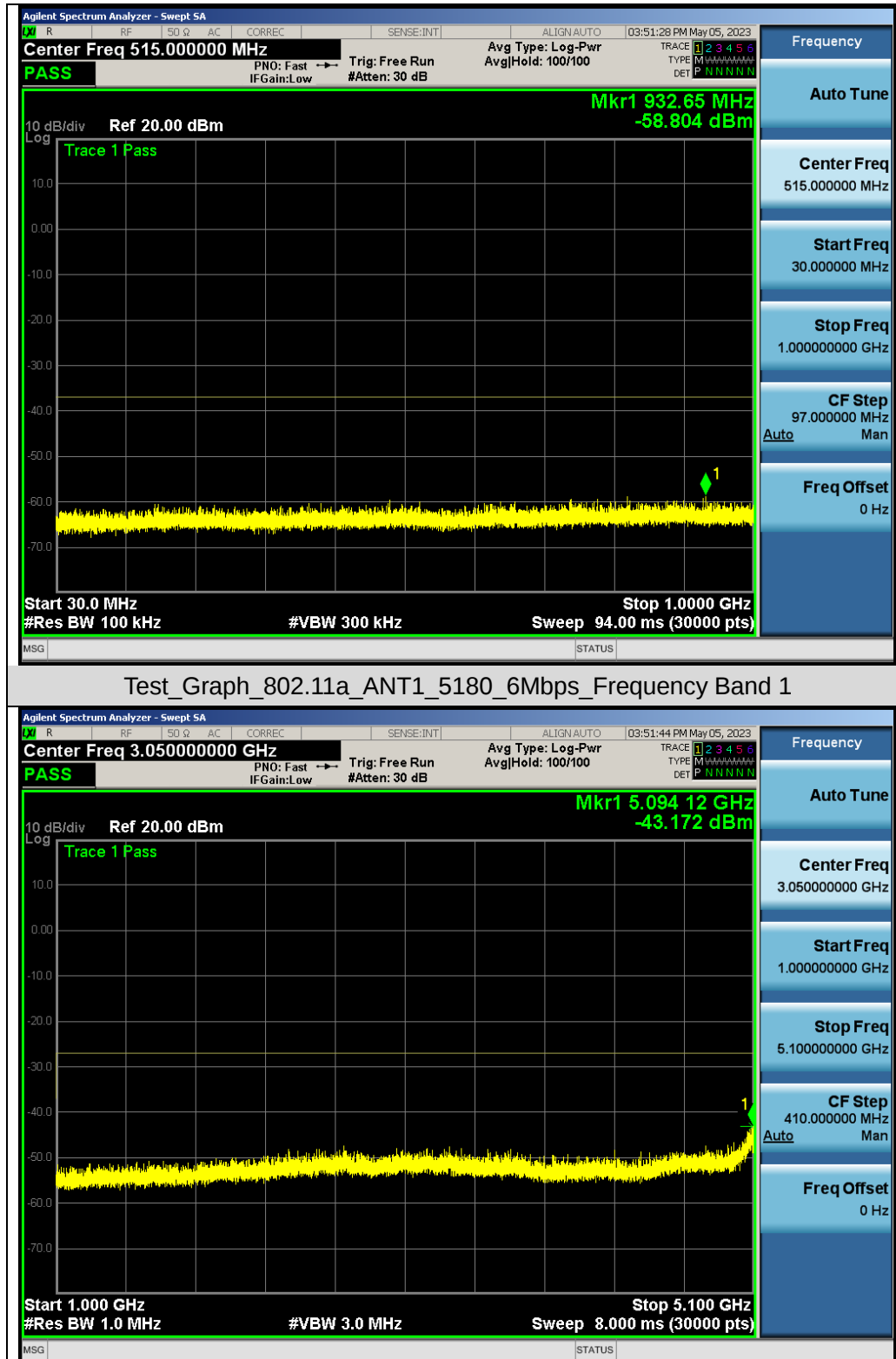
9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



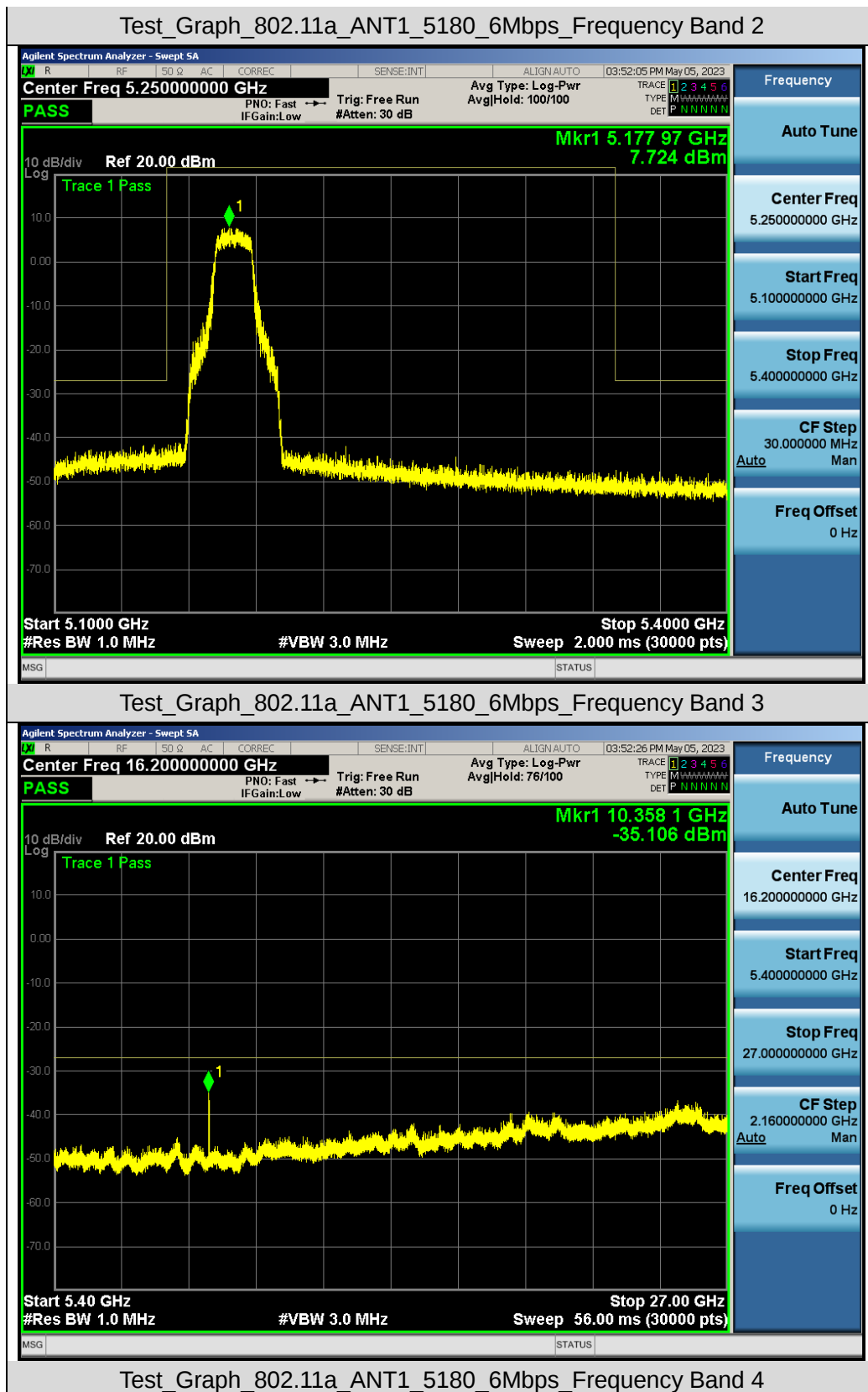
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9.4 MEASUREMENT RESULTS

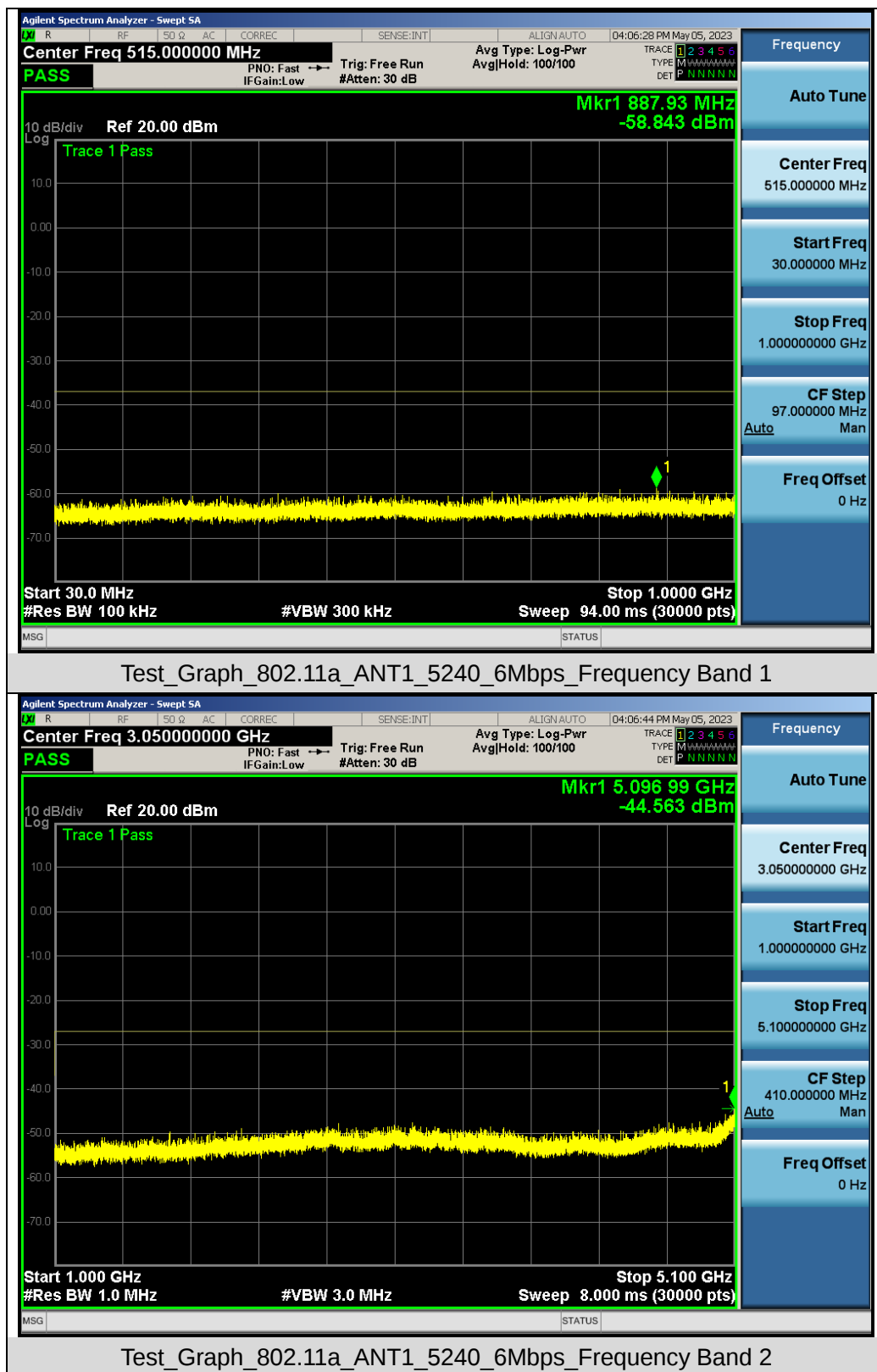
Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band for transmitters operating in the 5.15-5.25 GHz band-Ant 1



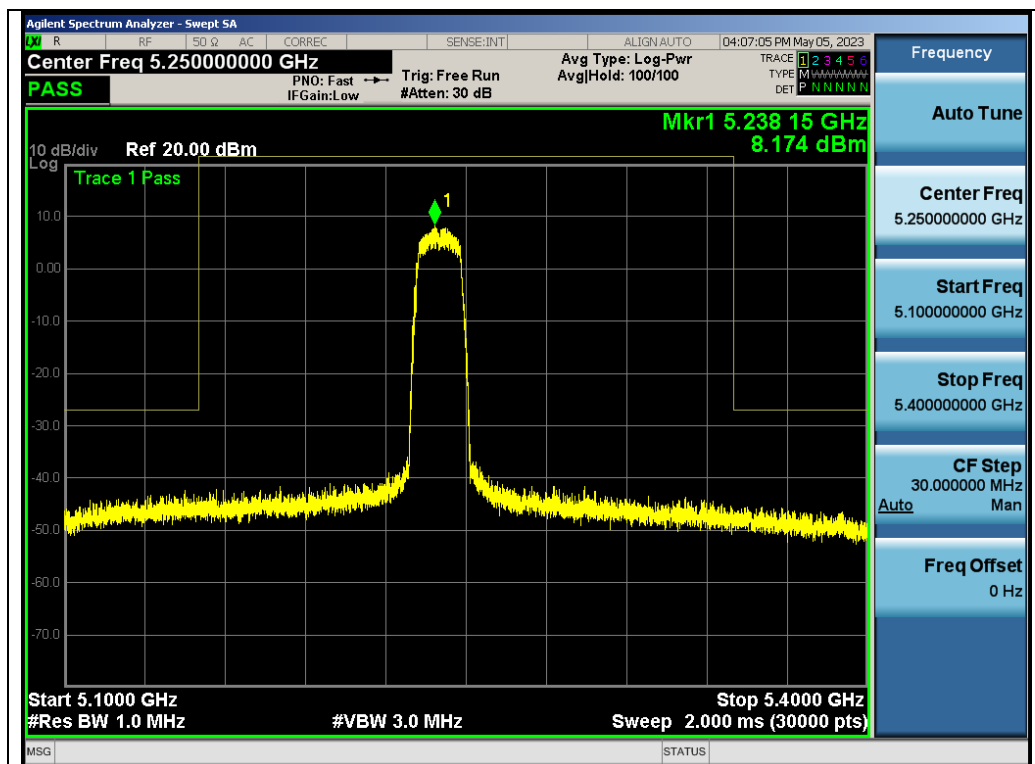
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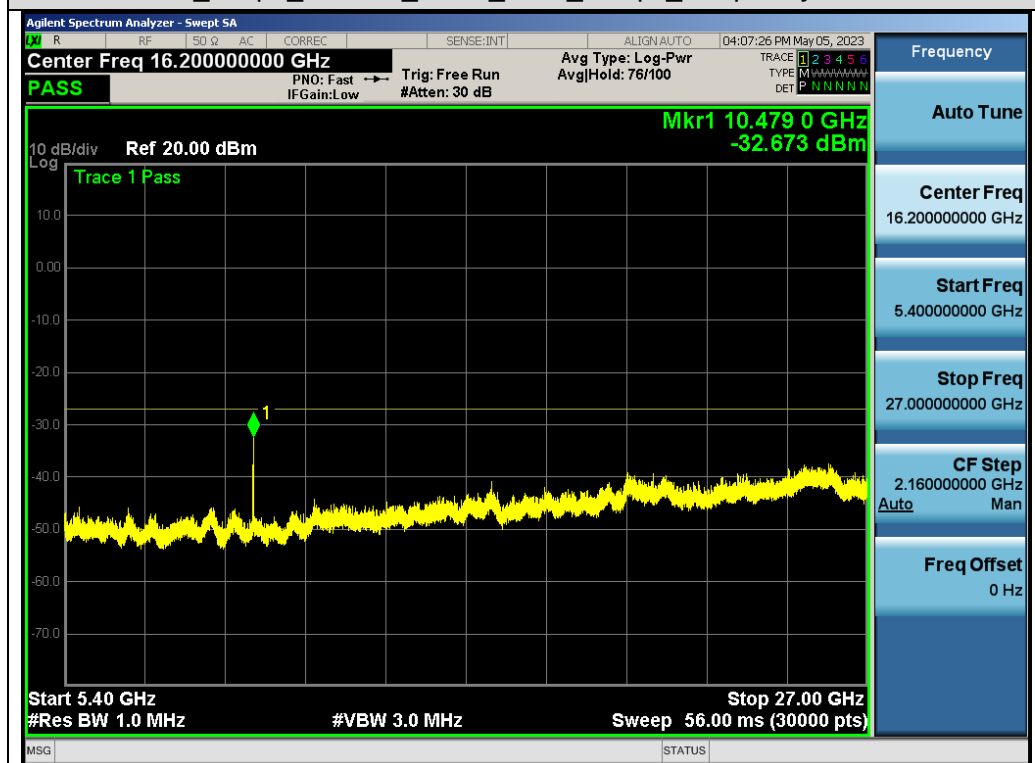
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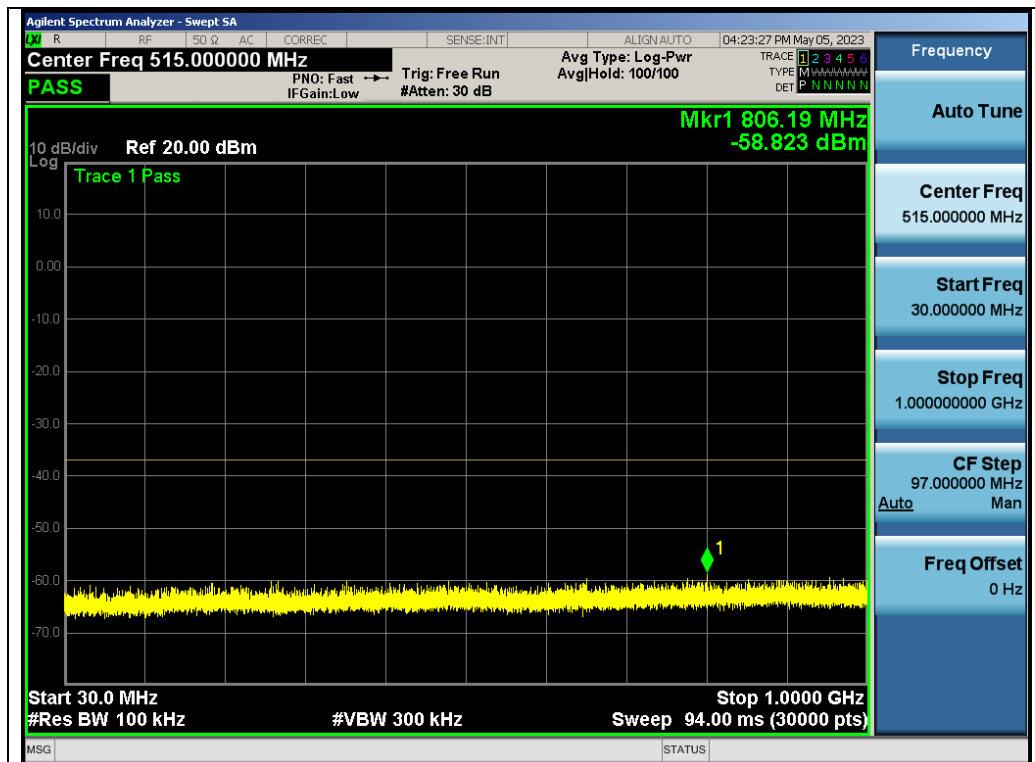
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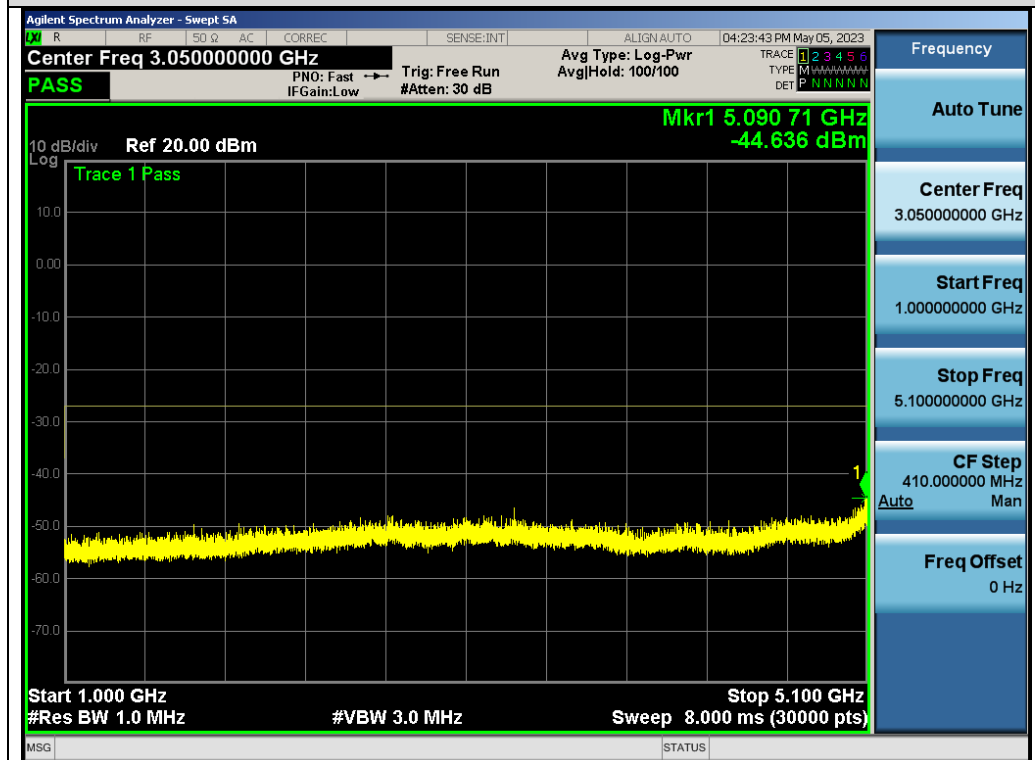
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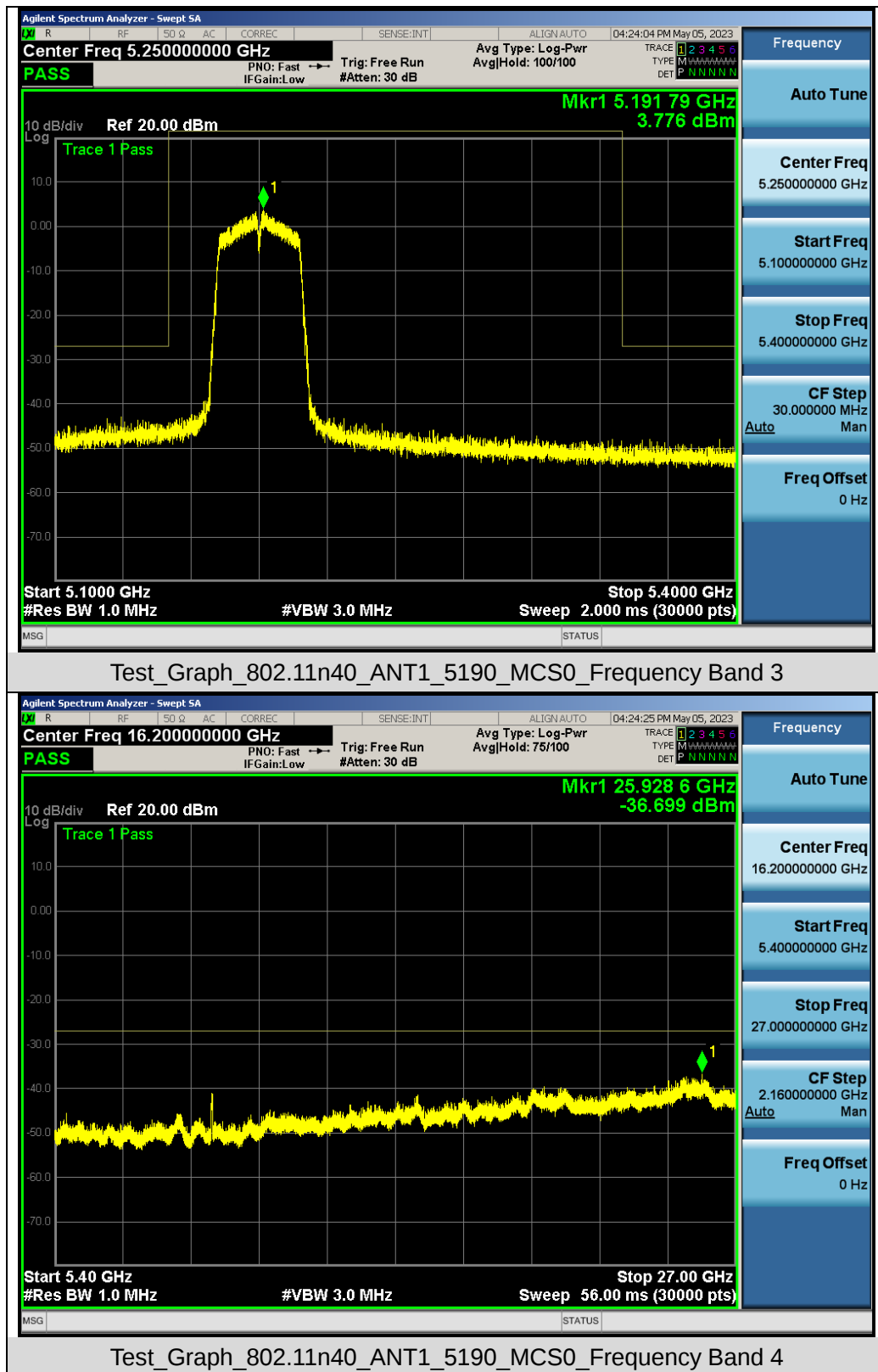


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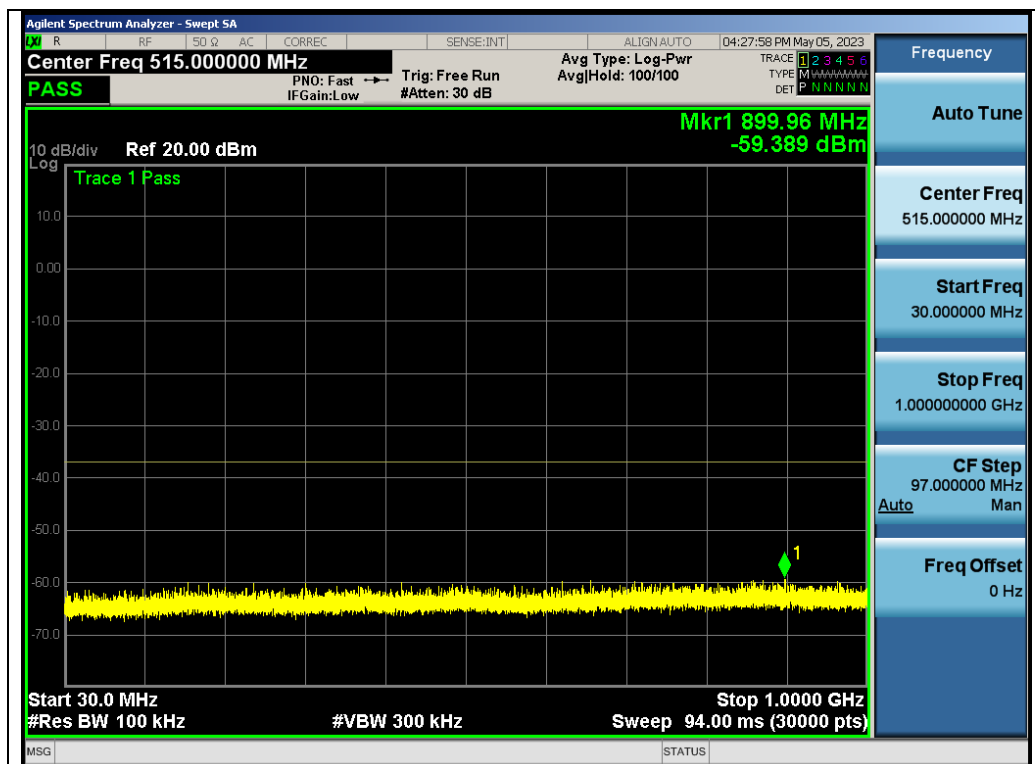


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 2

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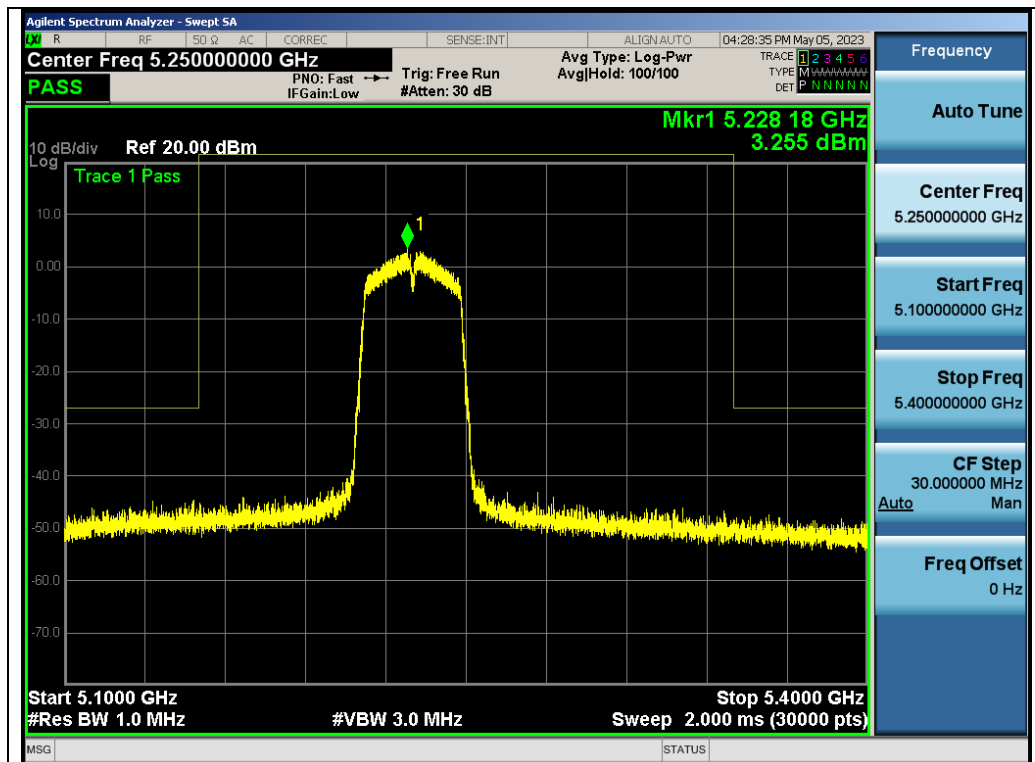


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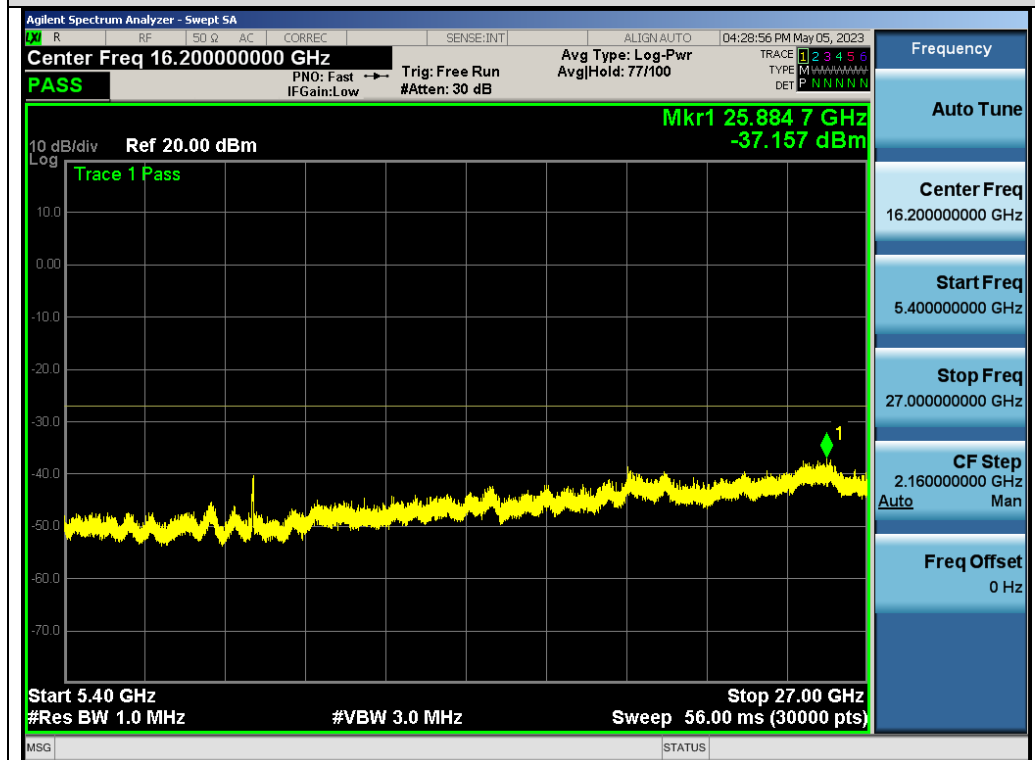


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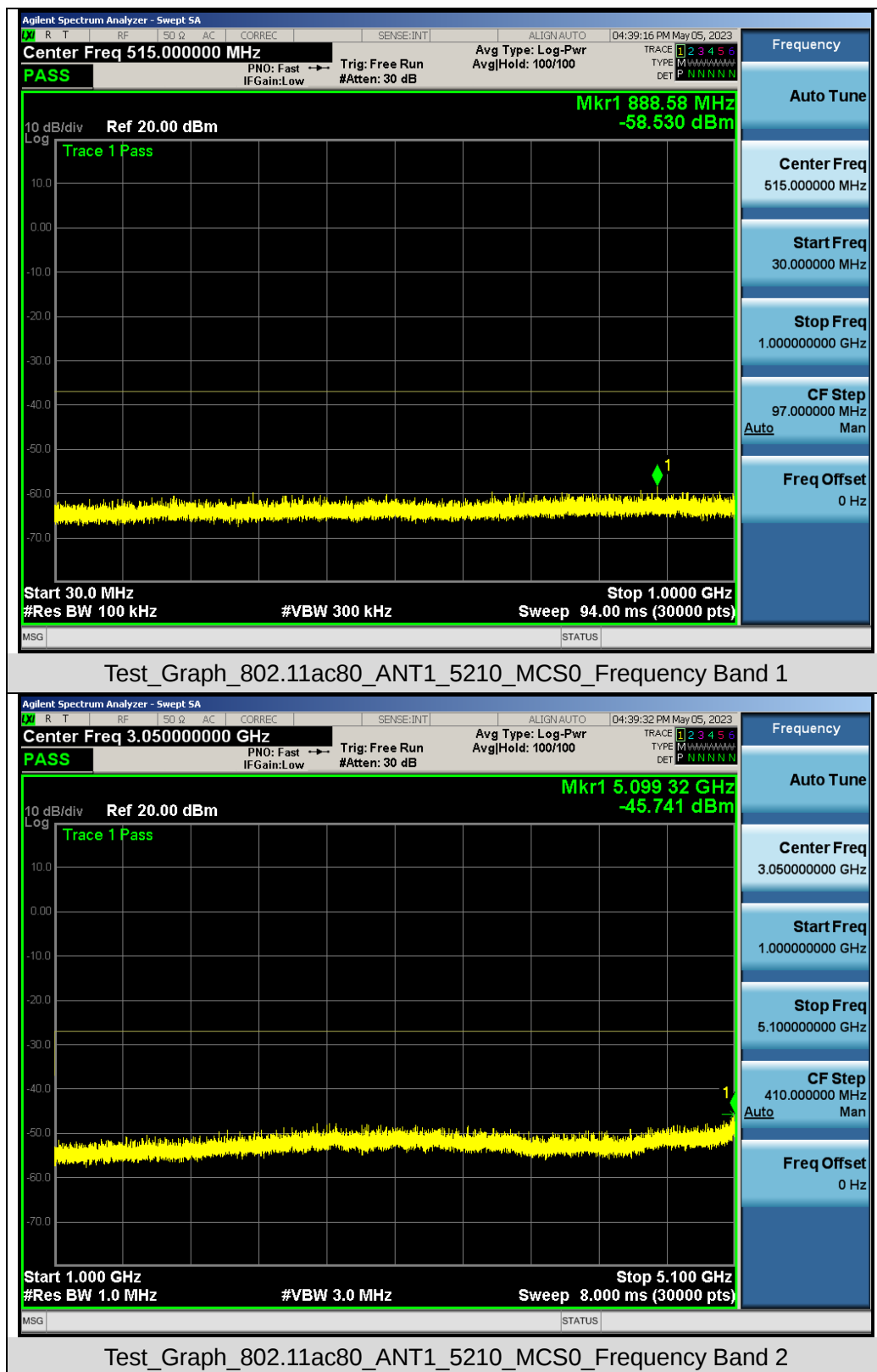


Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 3



Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 4

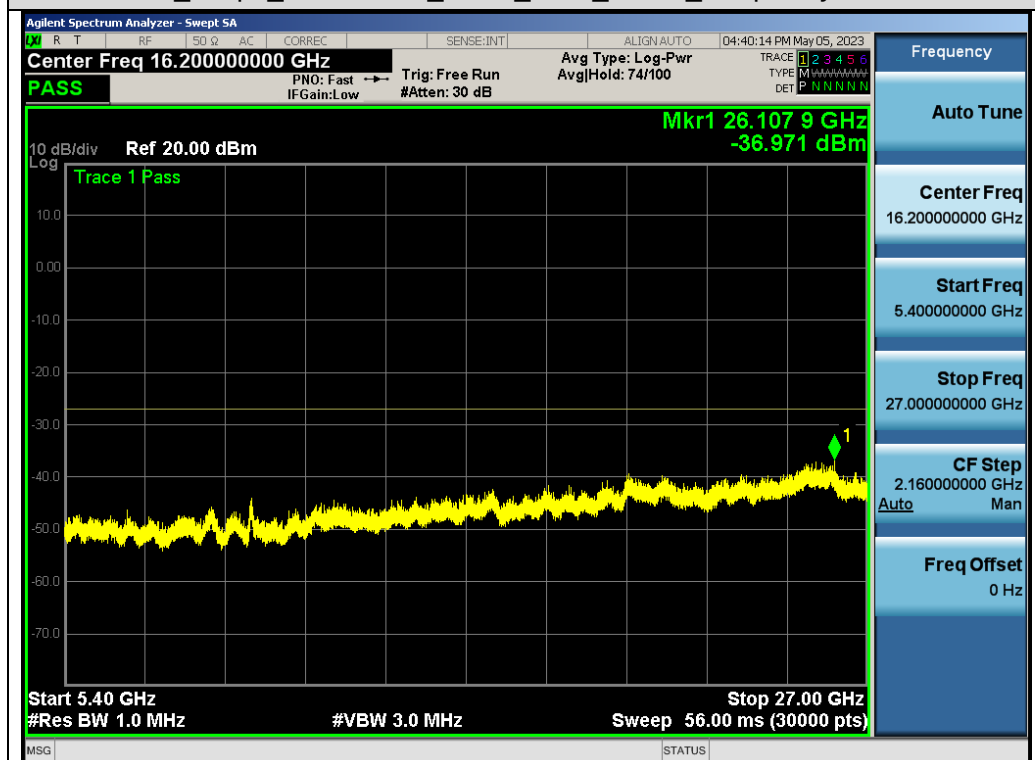
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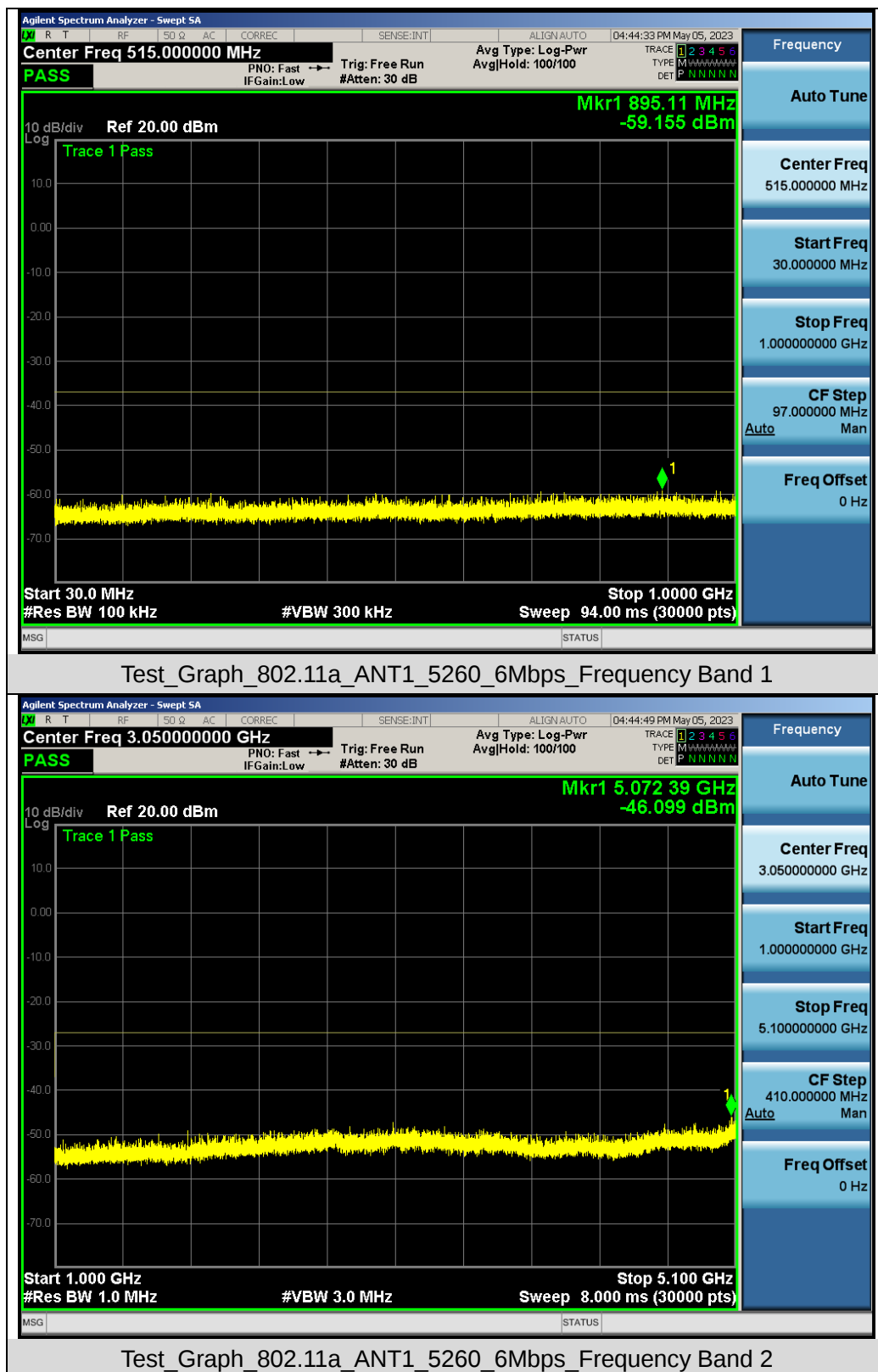
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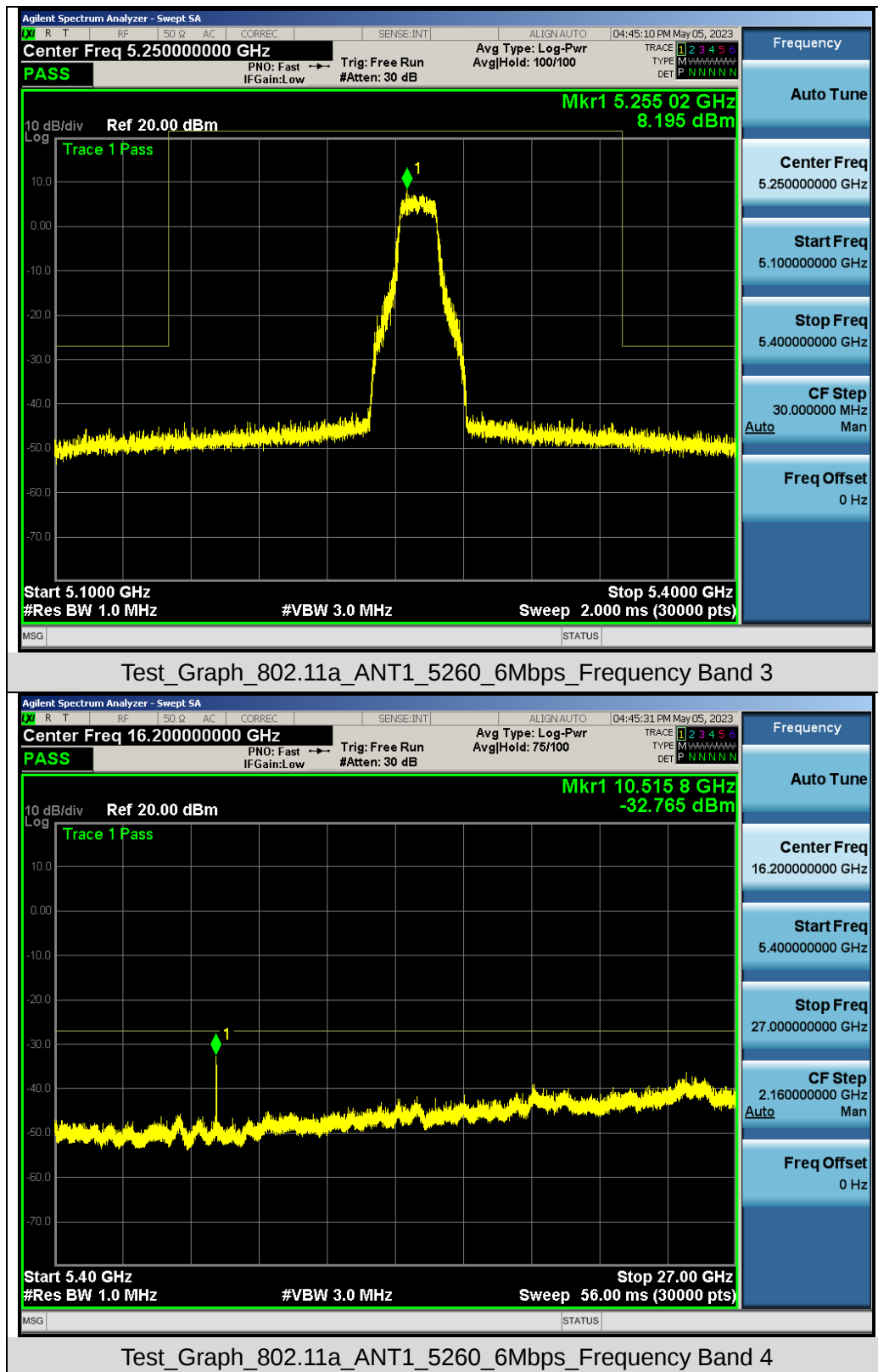
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Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band-Ant 1

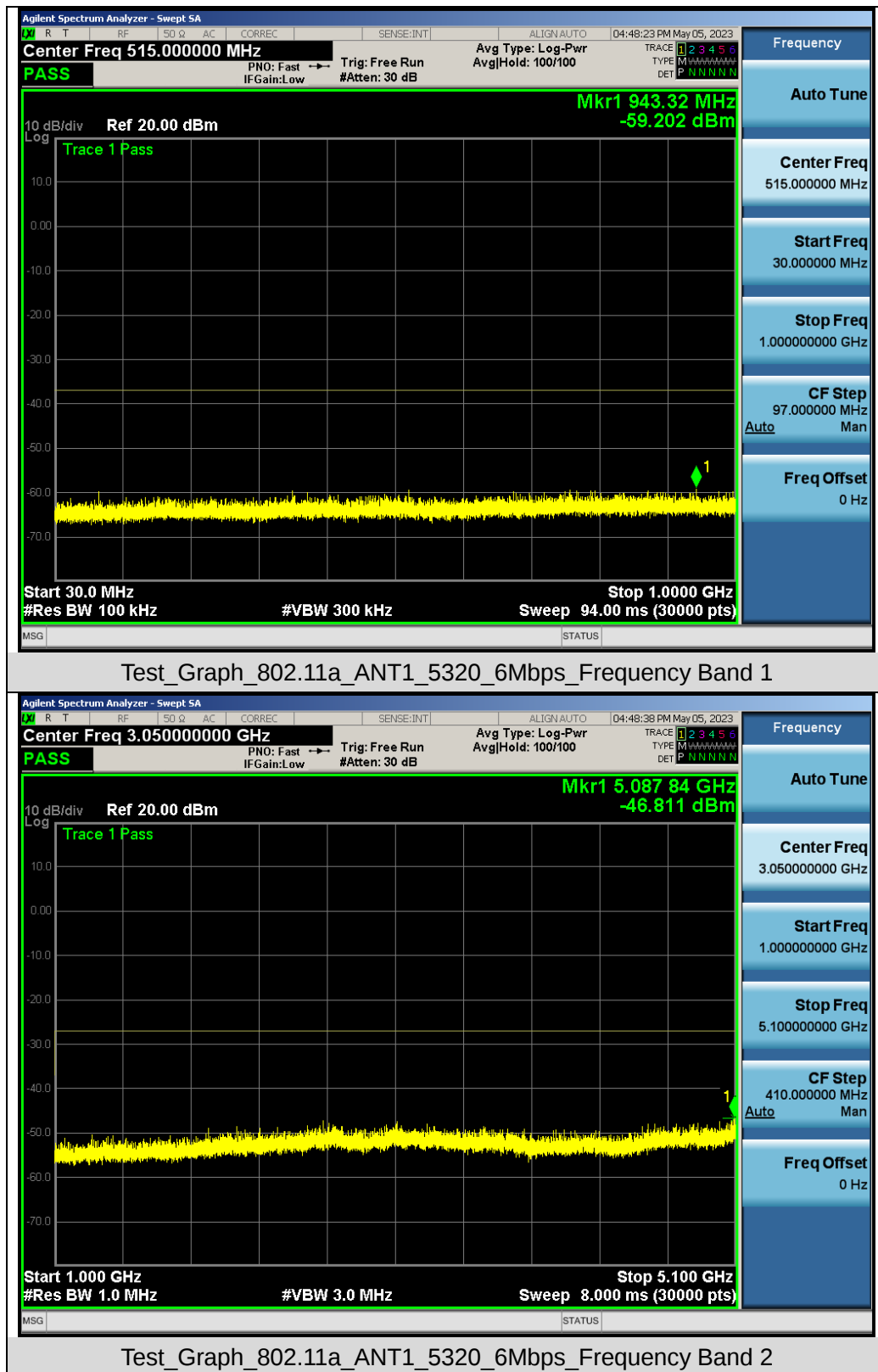


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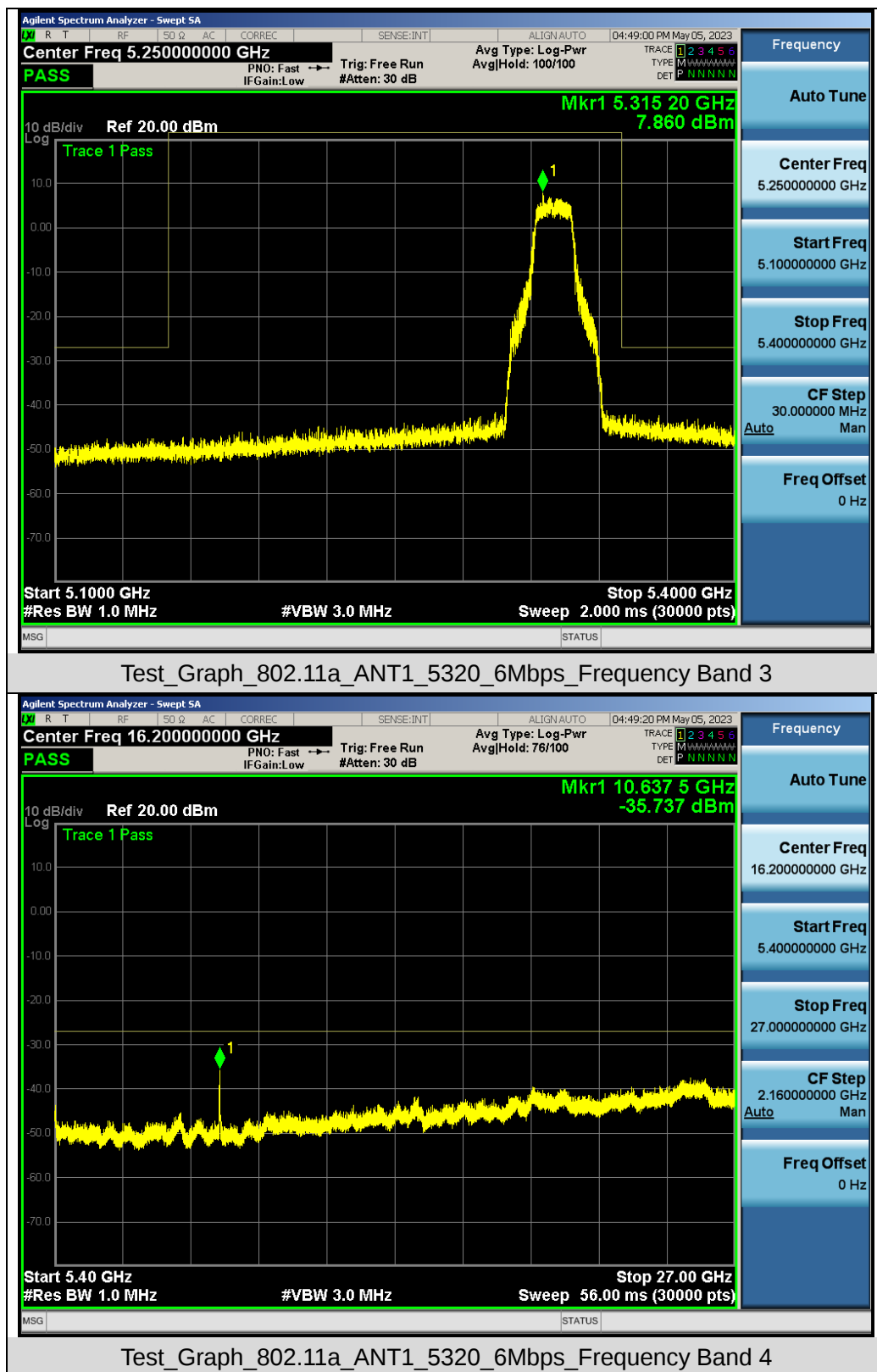


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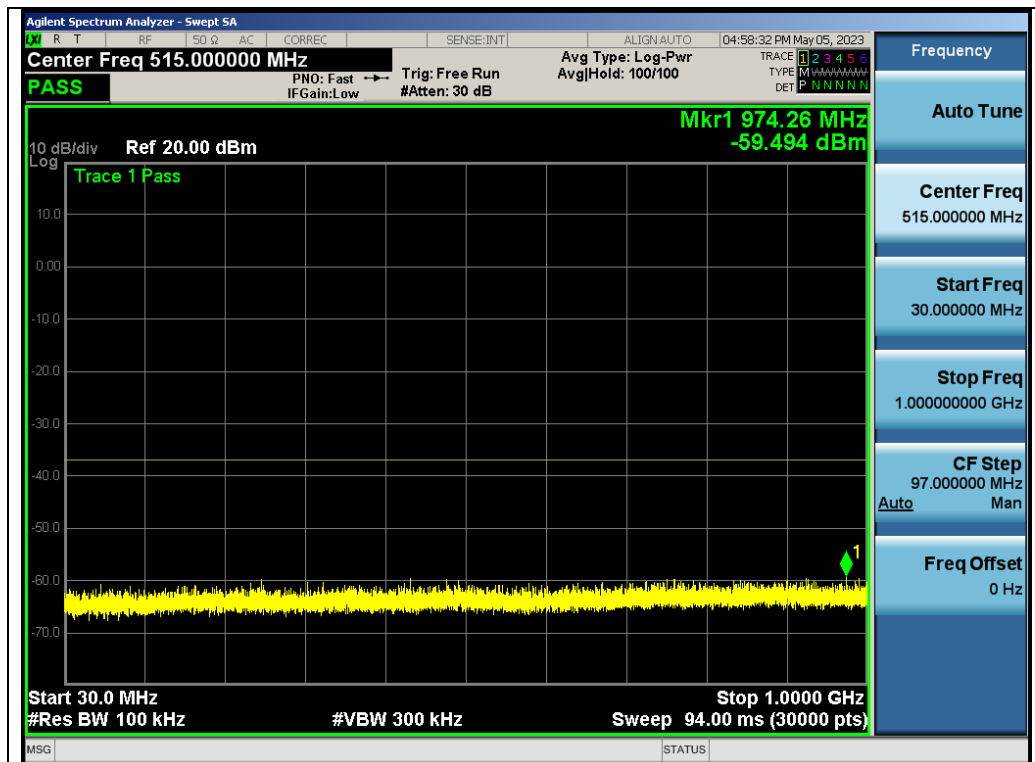


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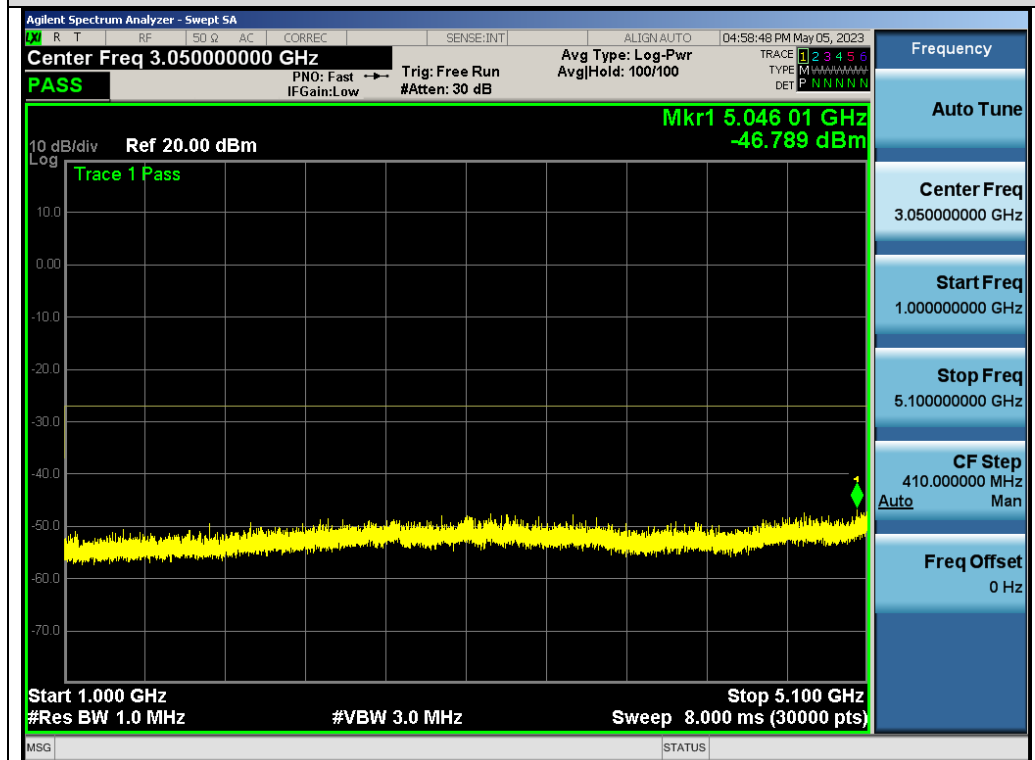


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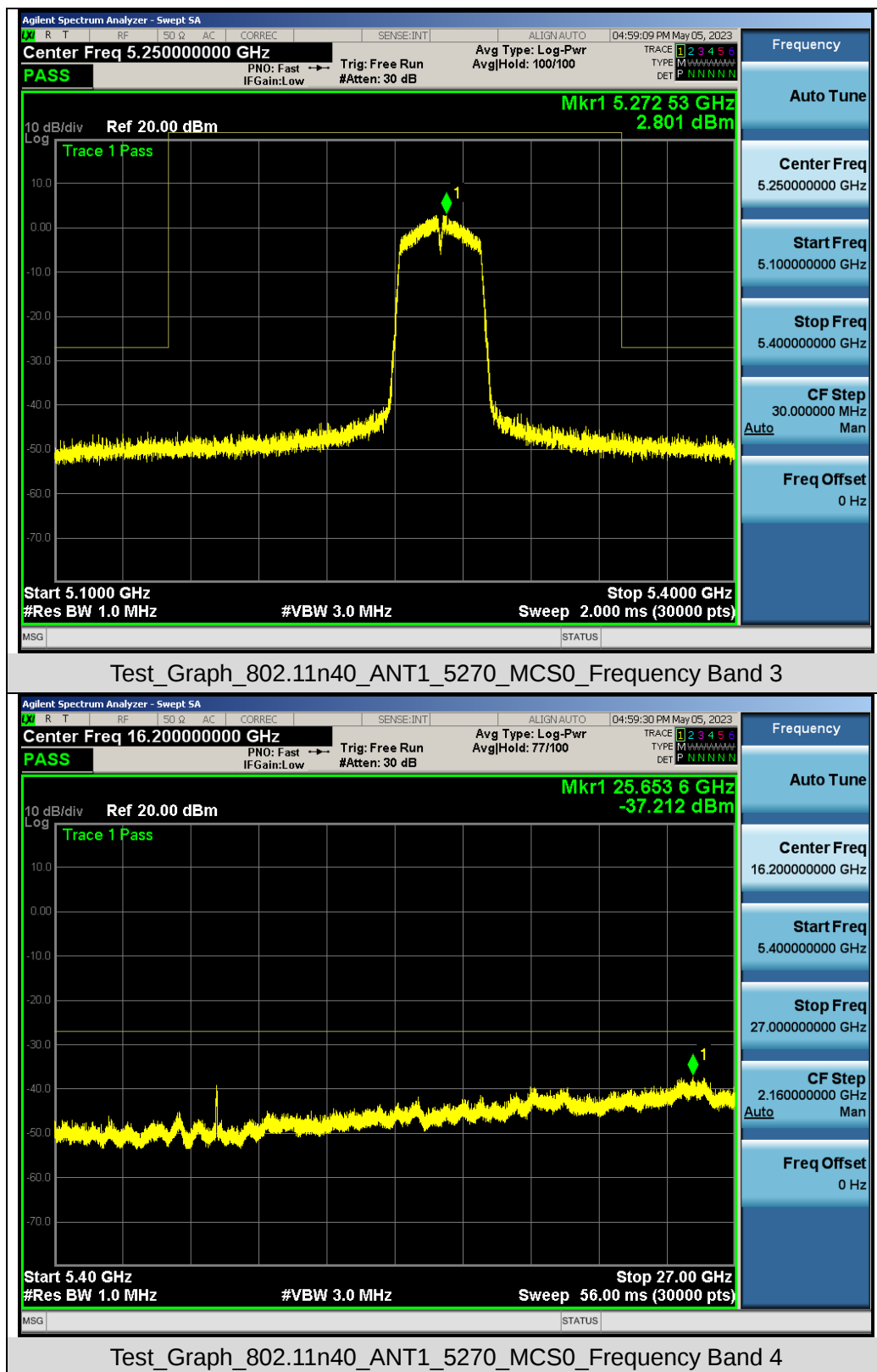


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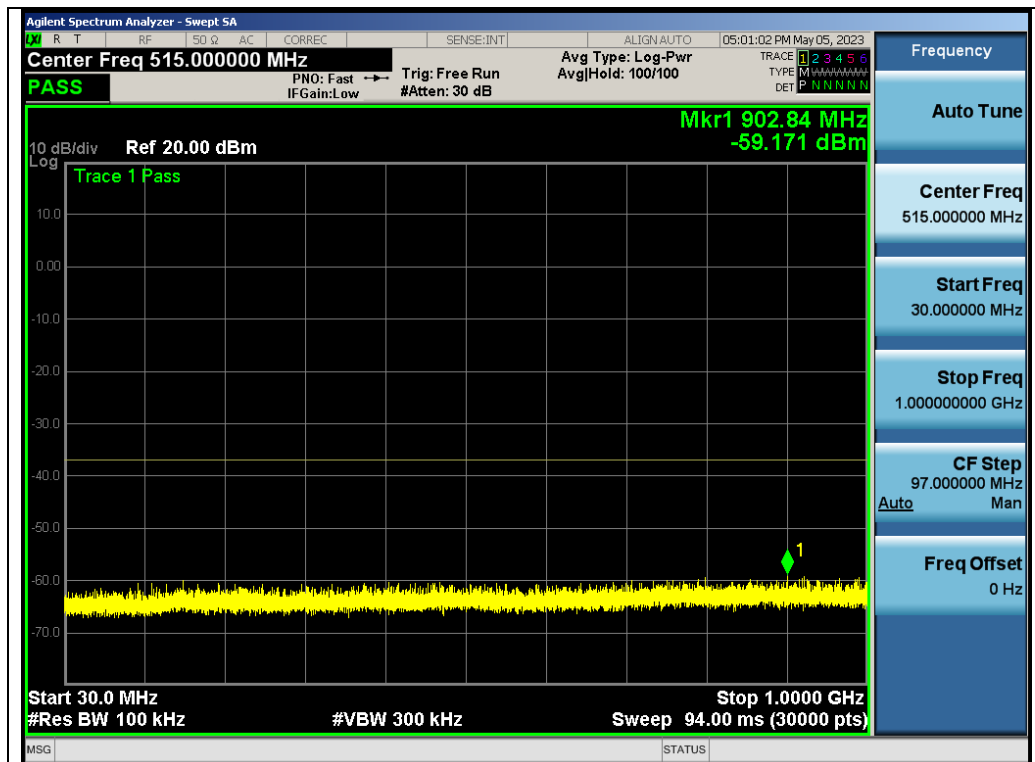


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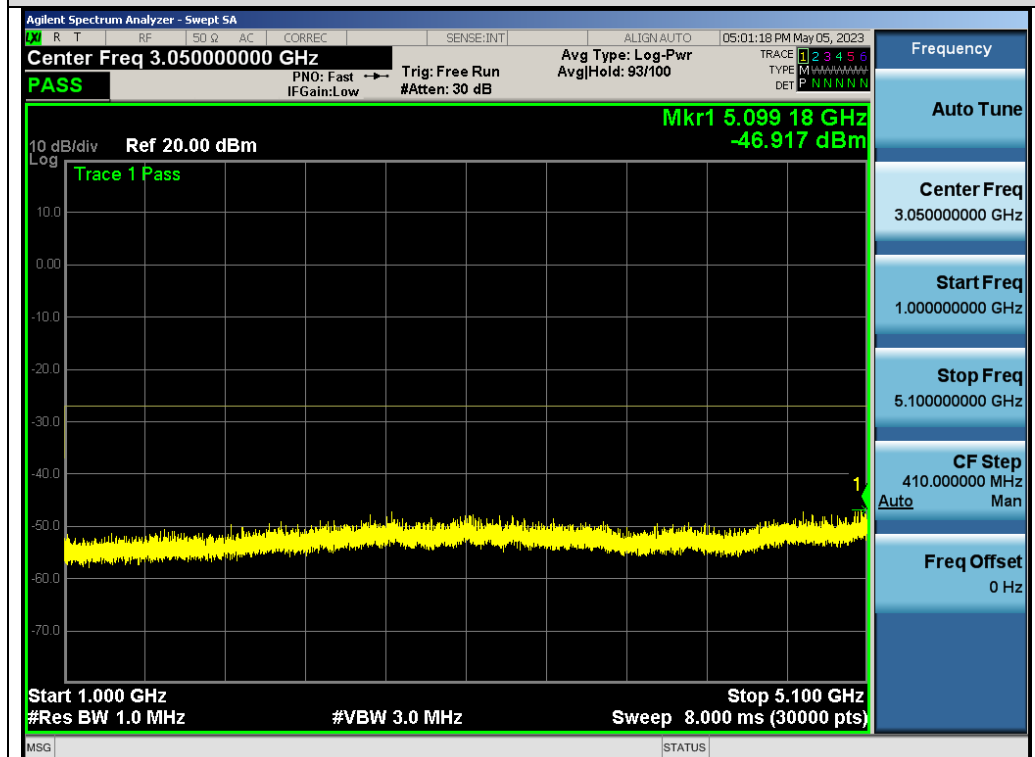
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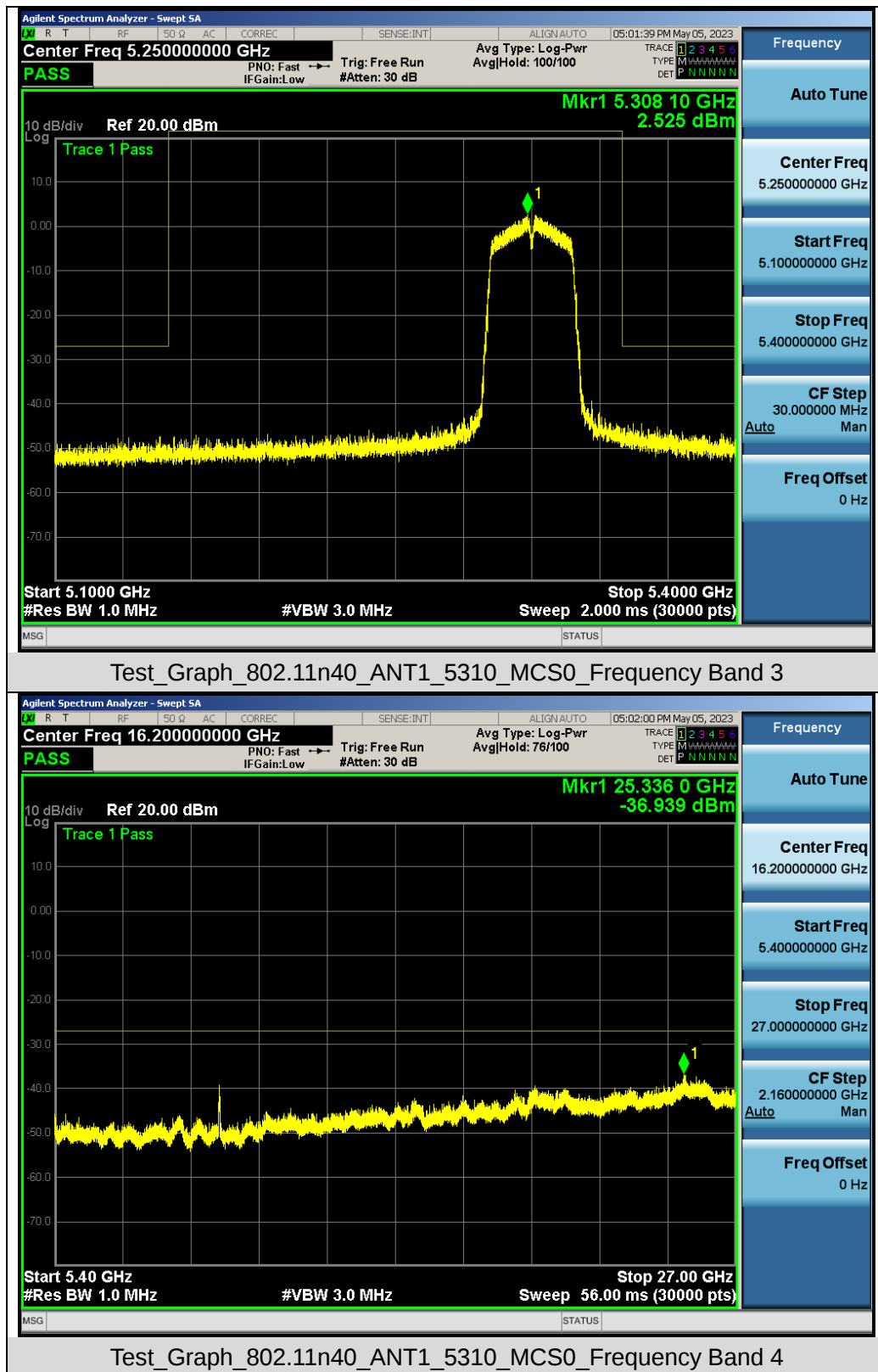


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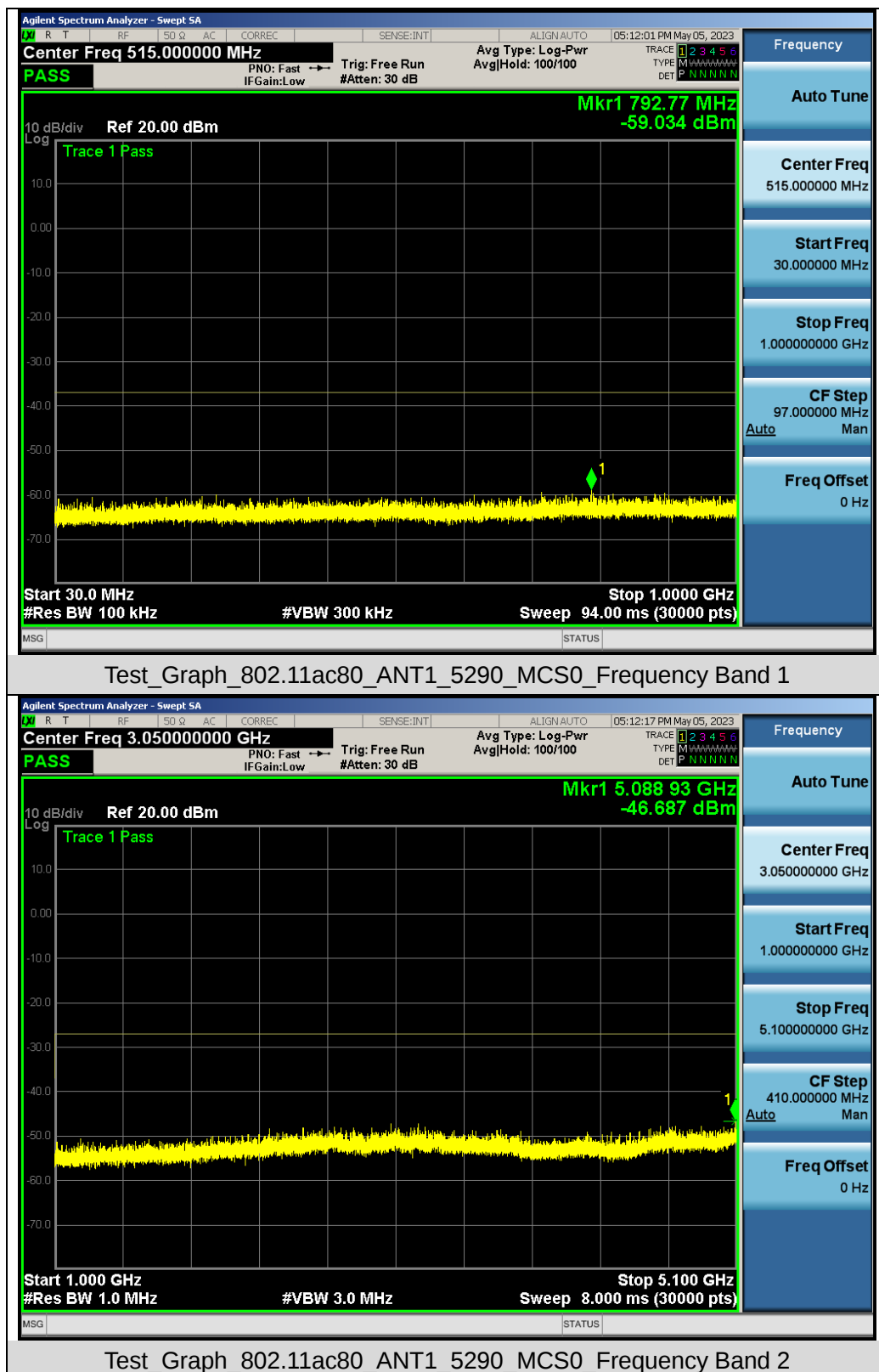
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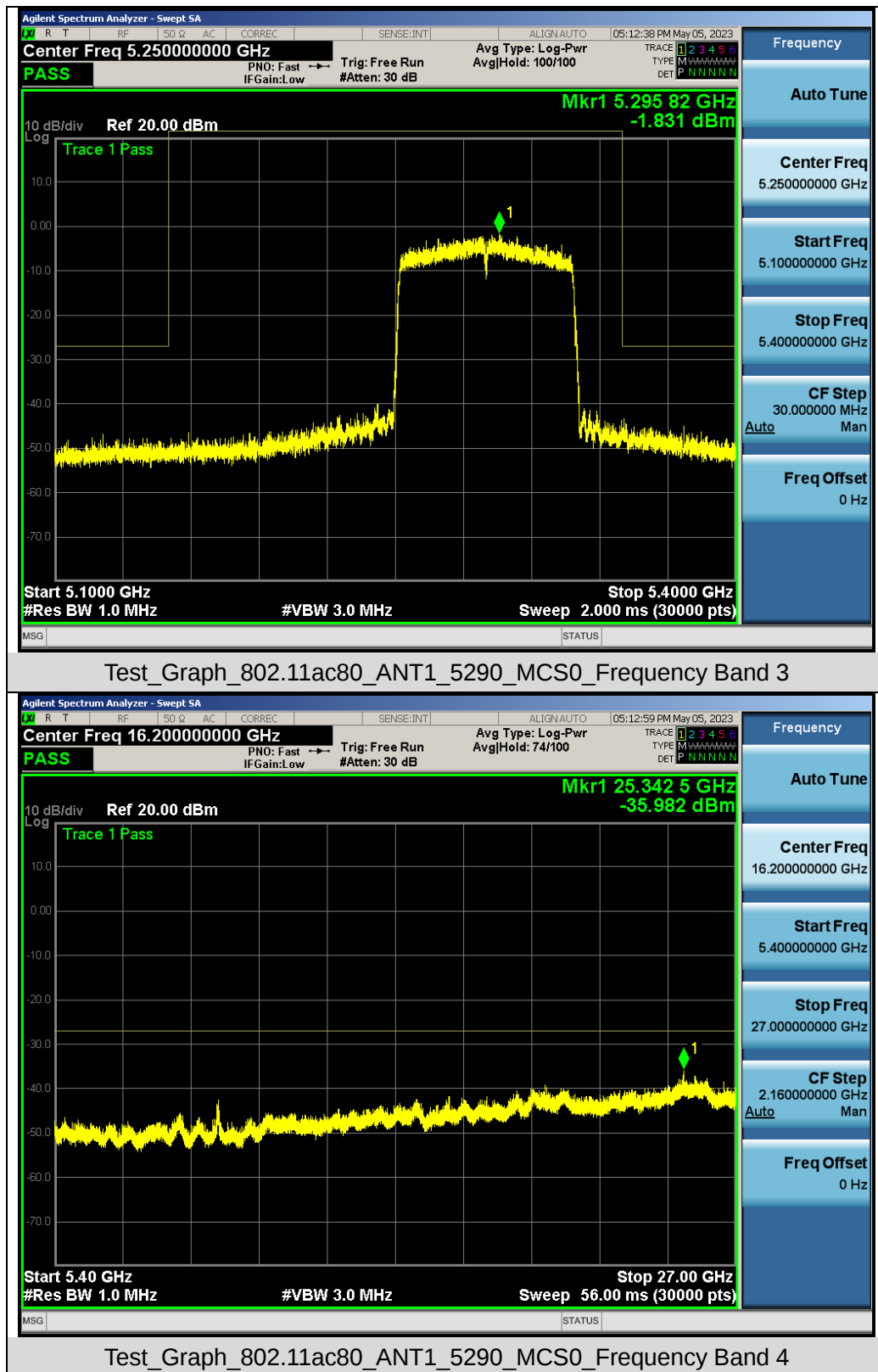


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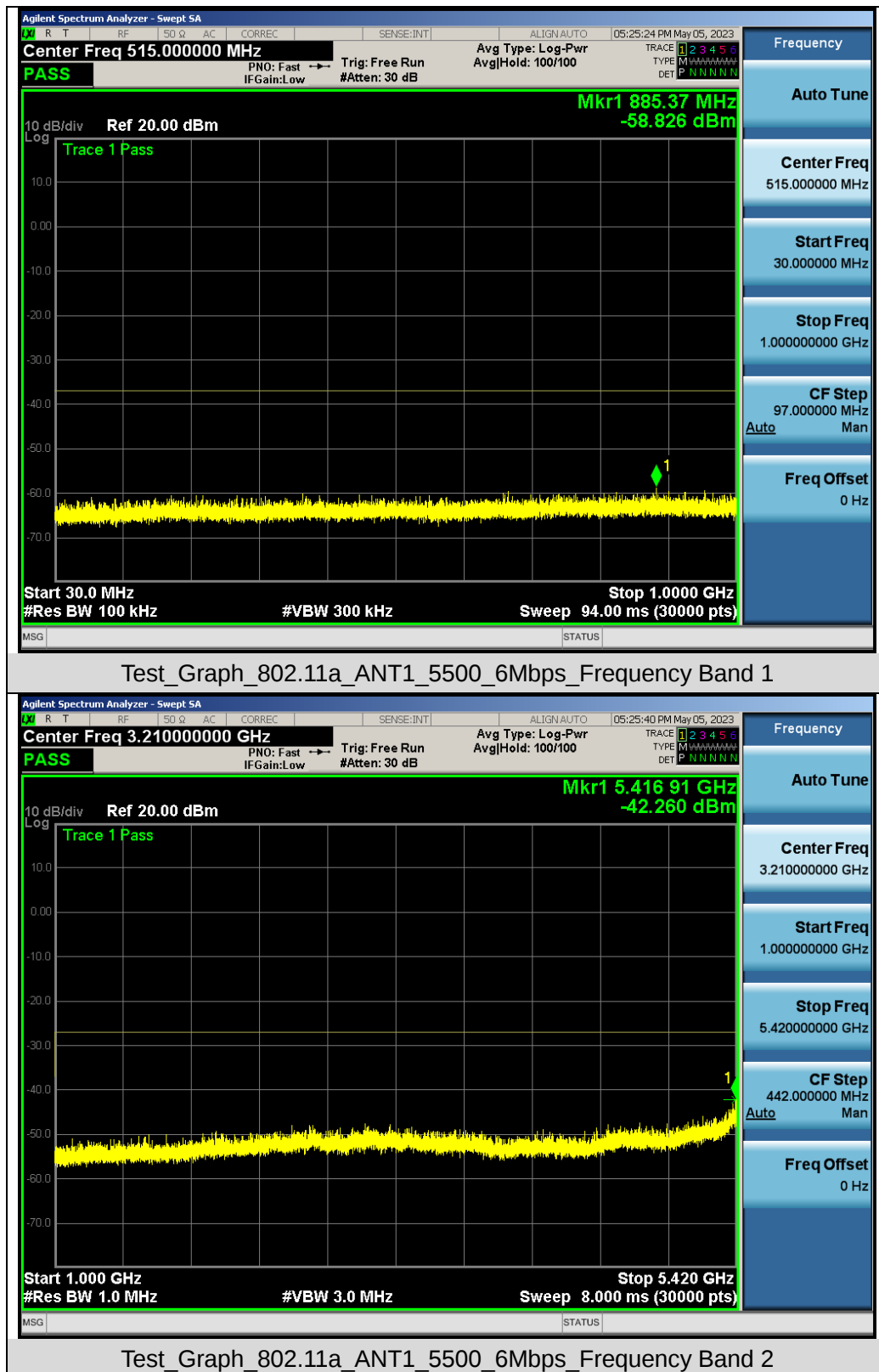


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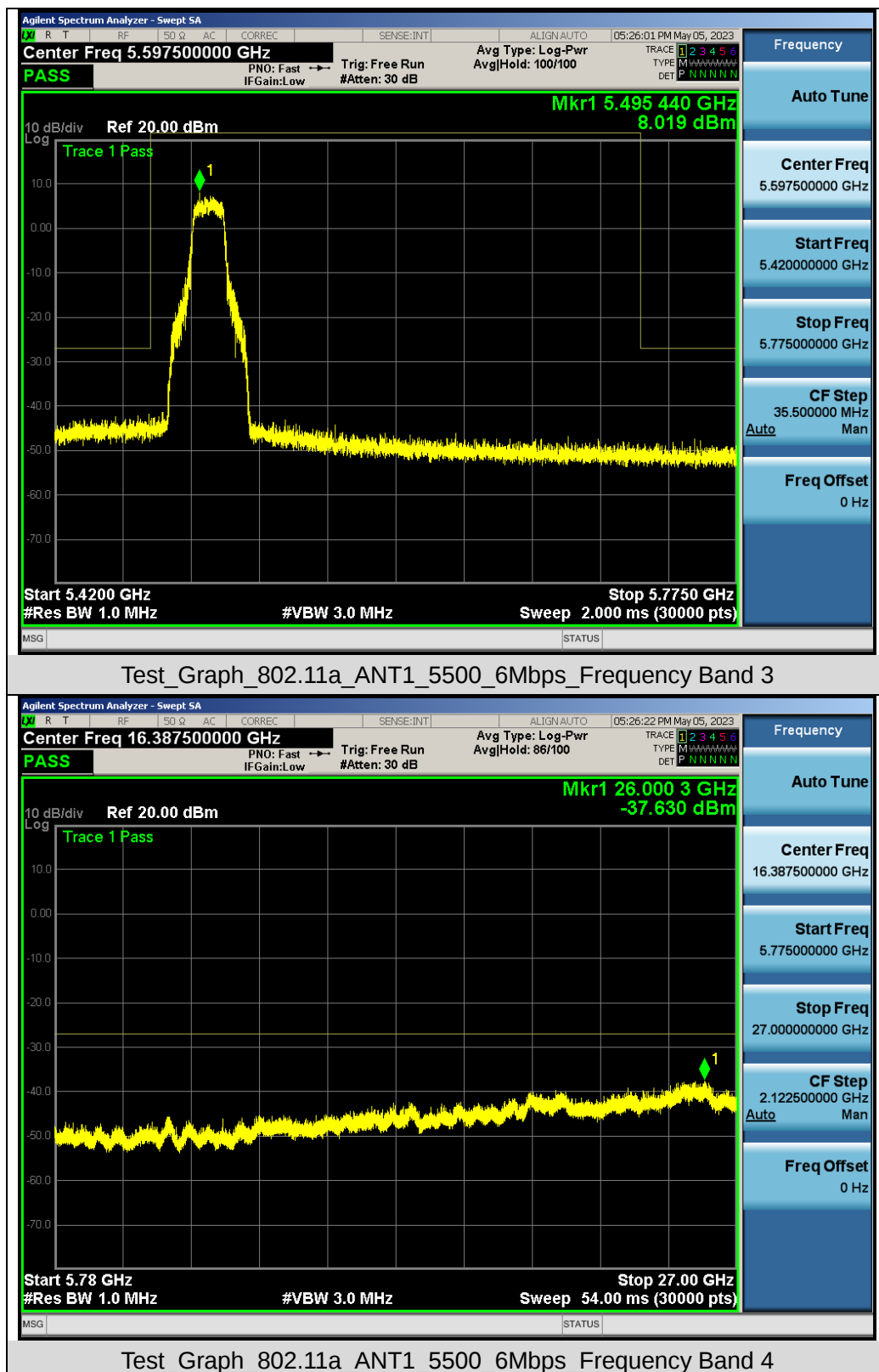


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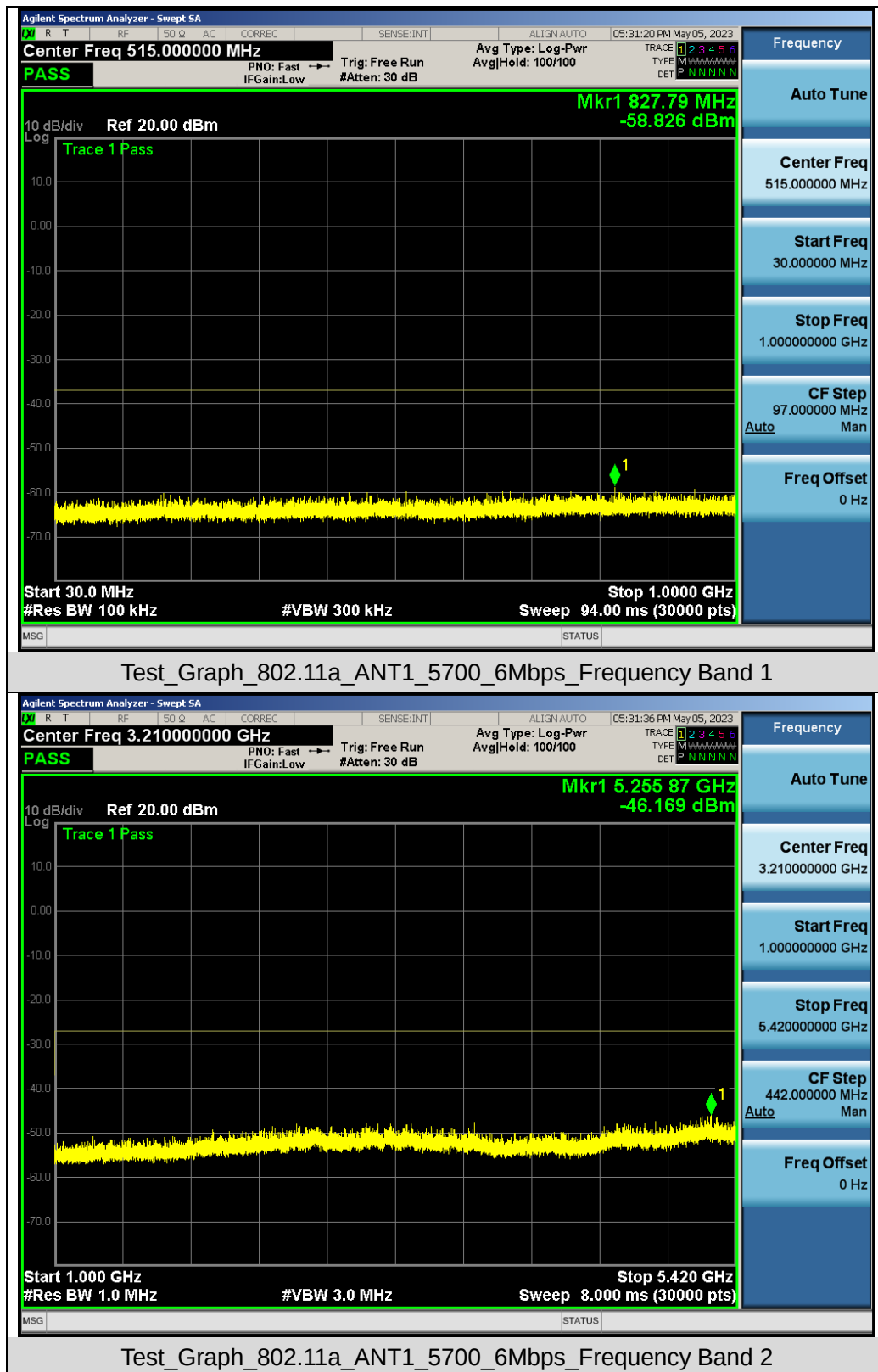
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.470-5.725 GHz band-Ant 1



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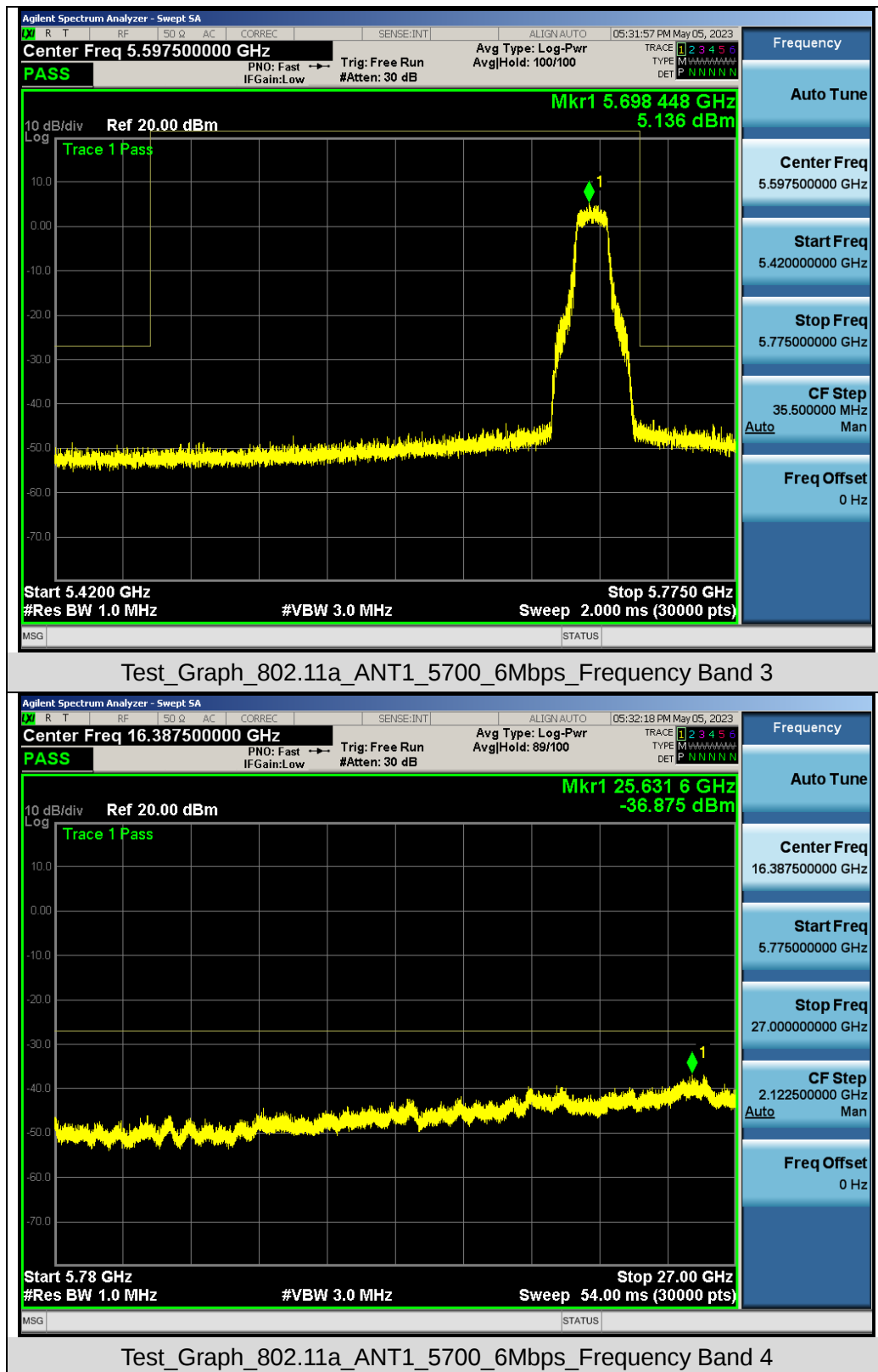


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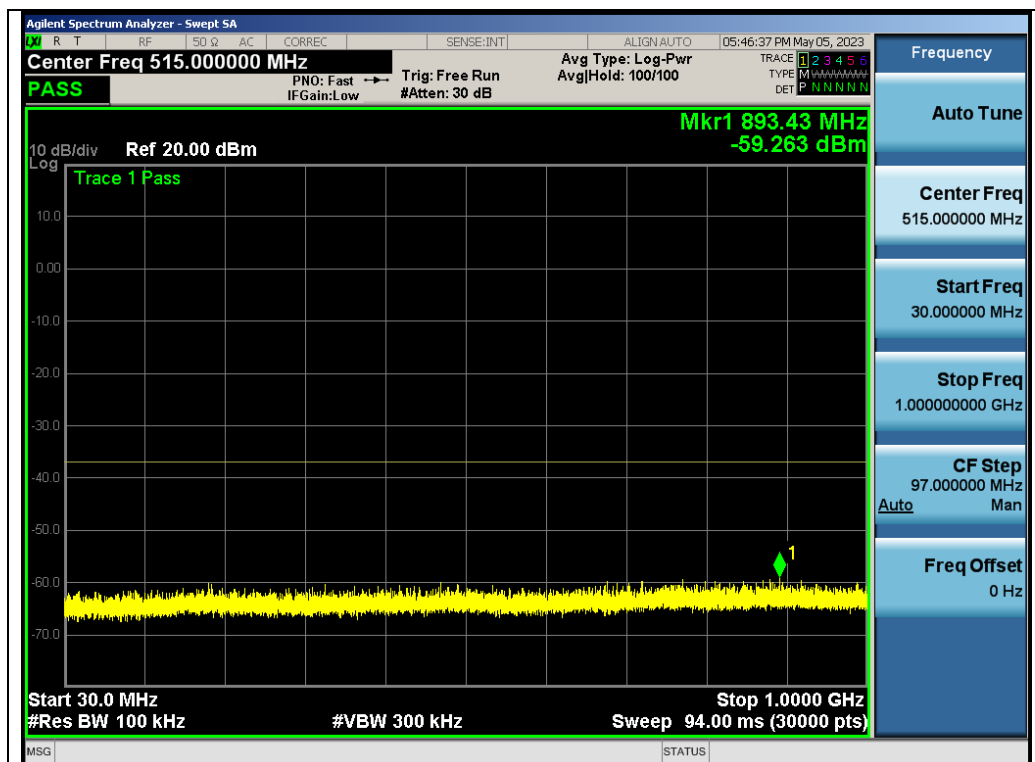
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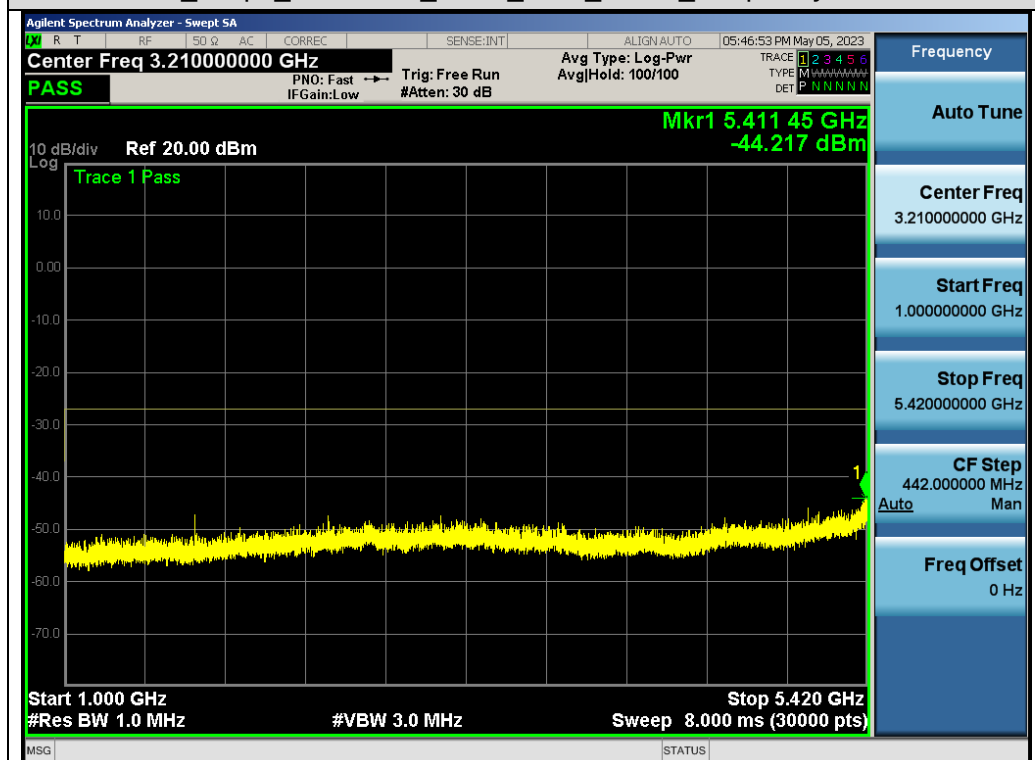


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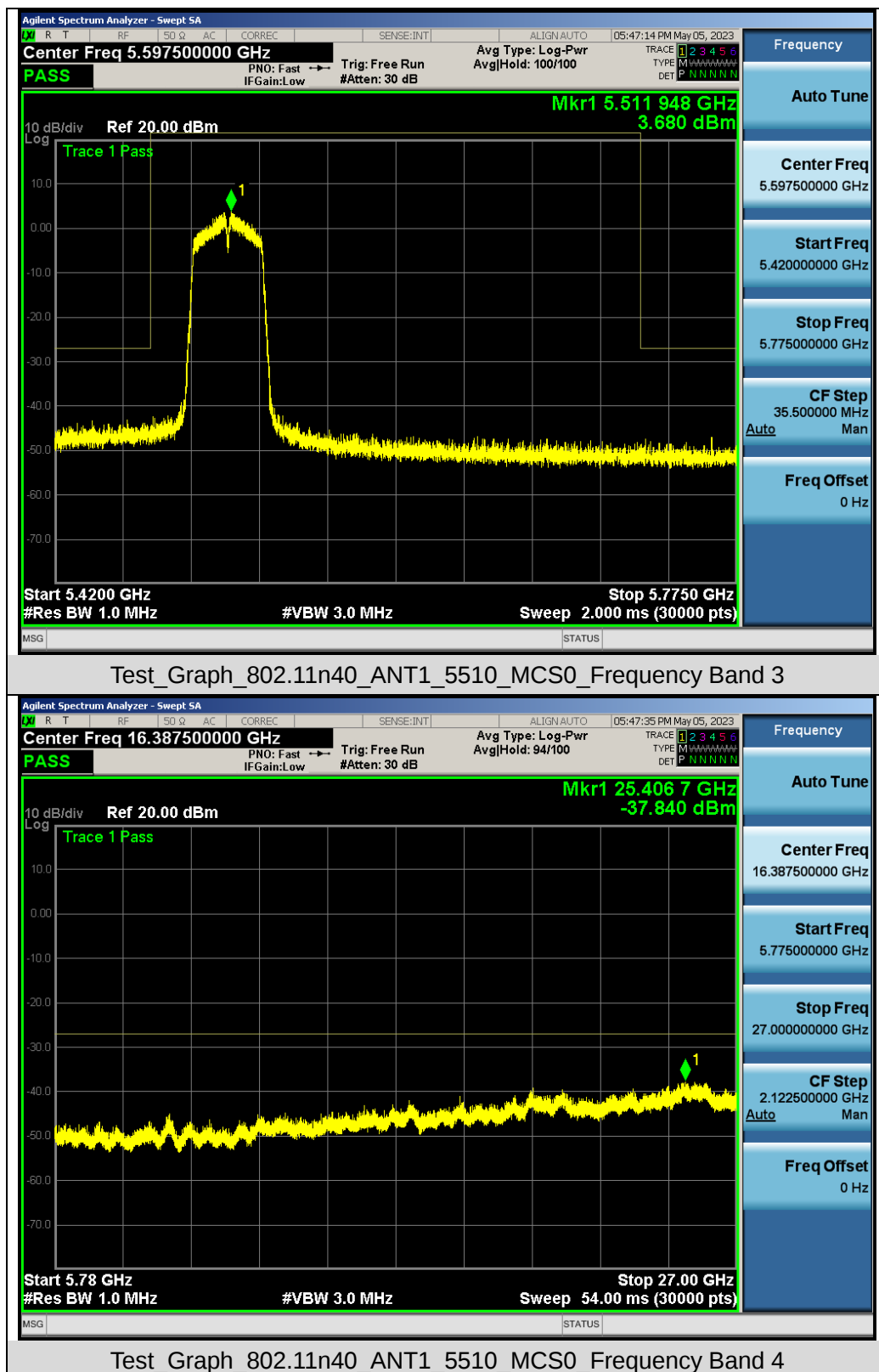
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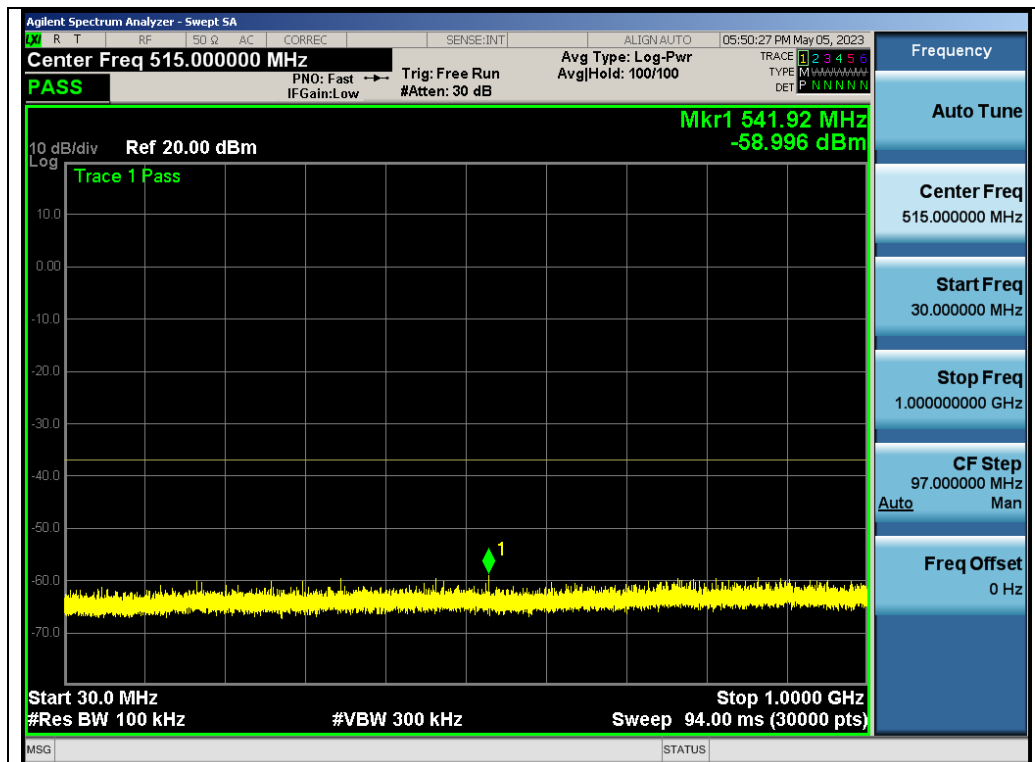
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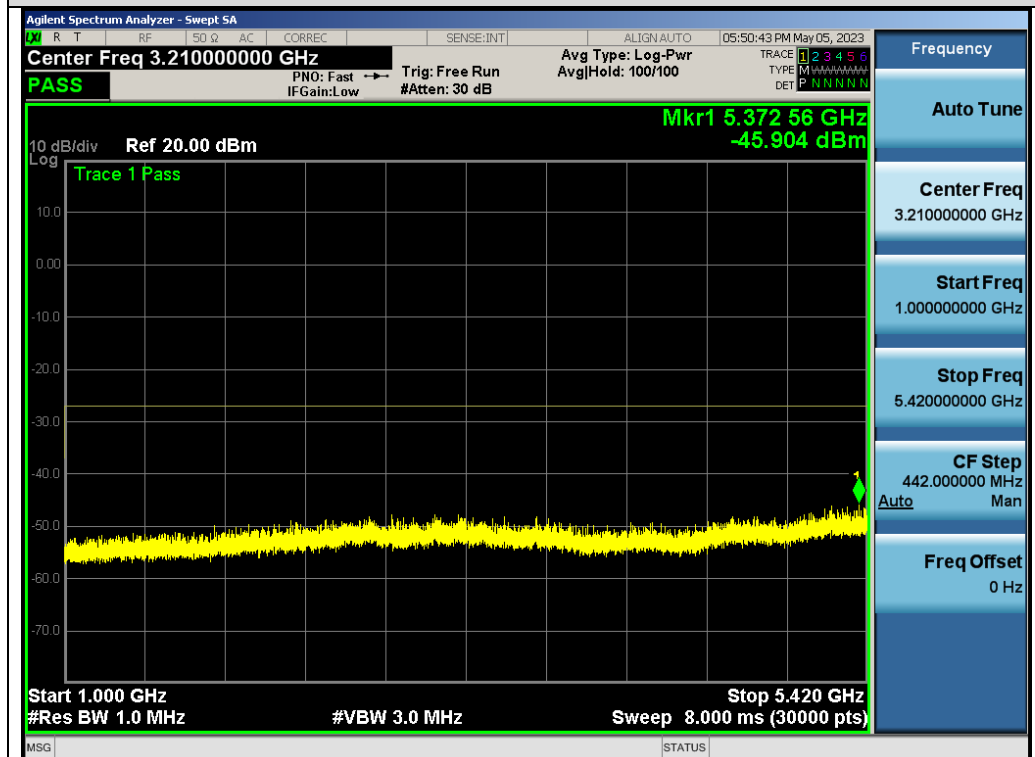
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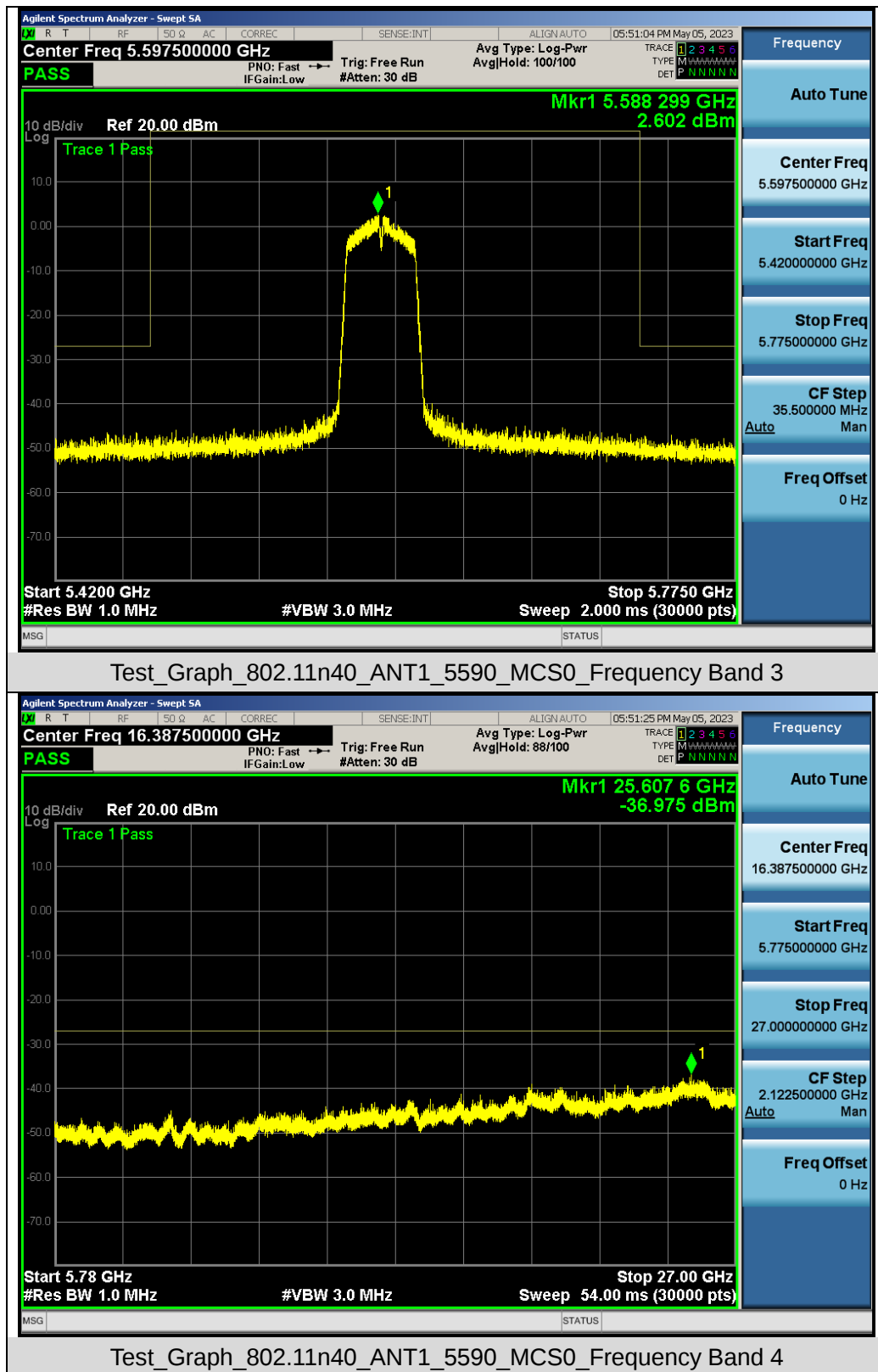


Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 1



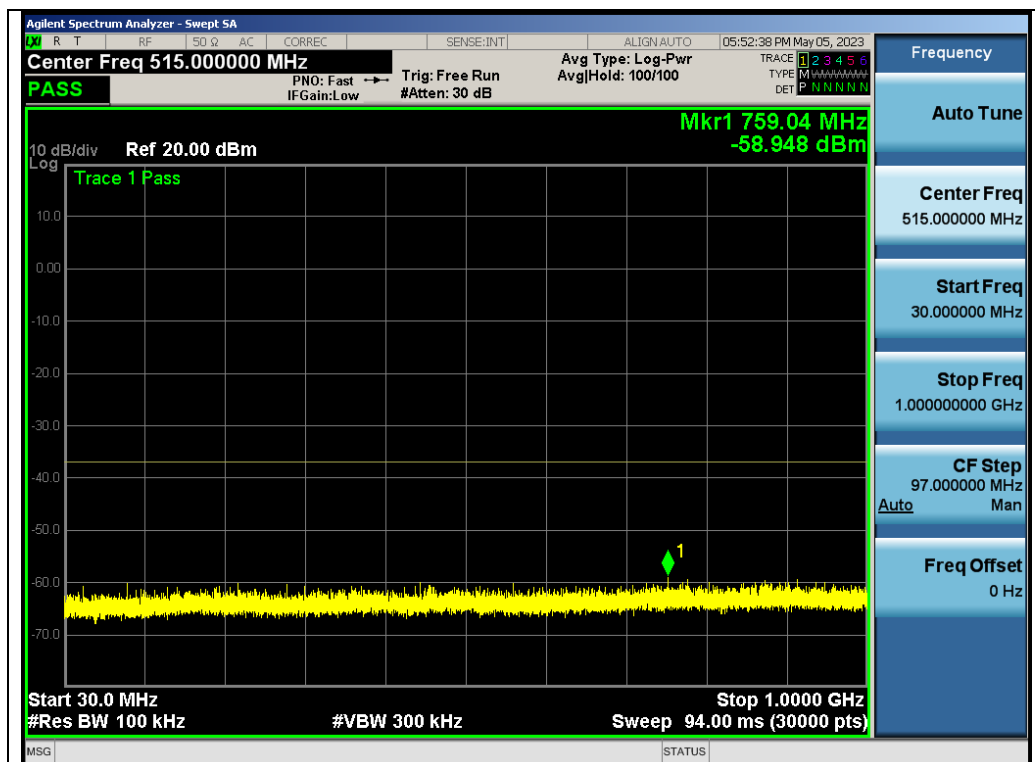
Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 2

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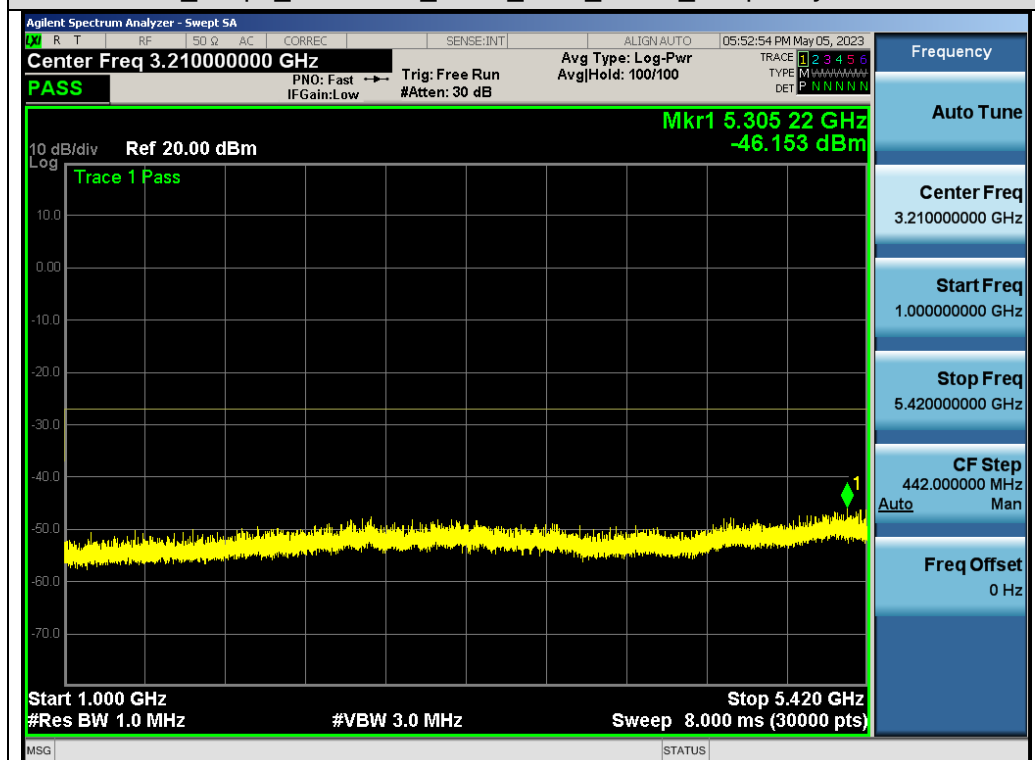


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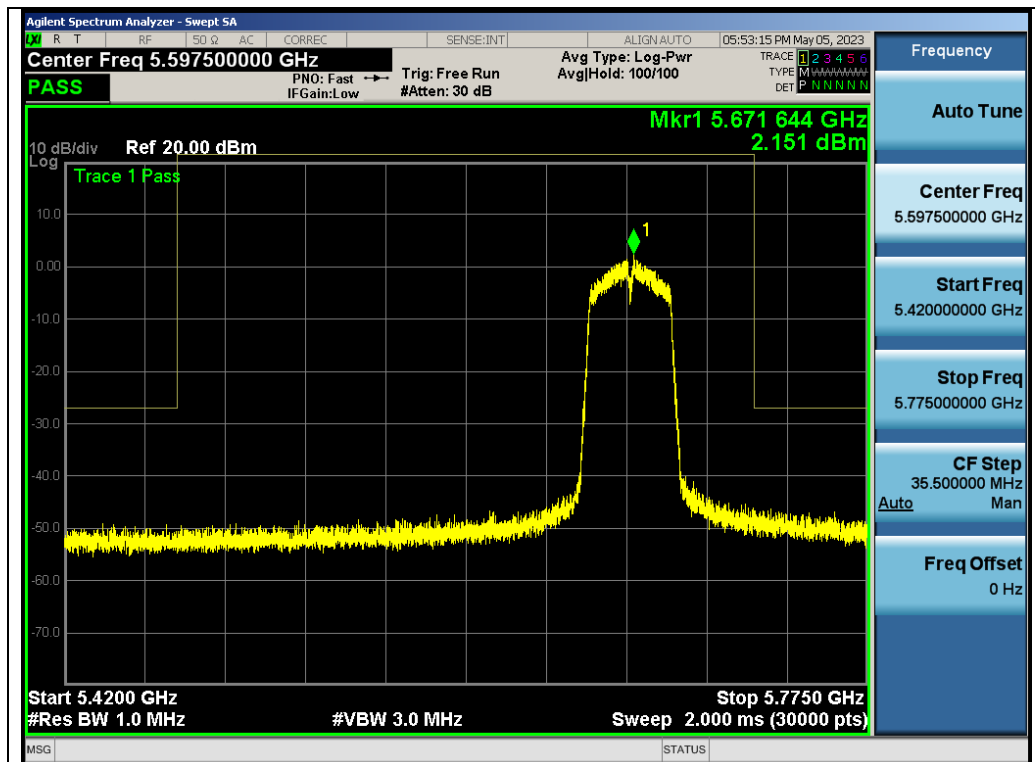


Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 1

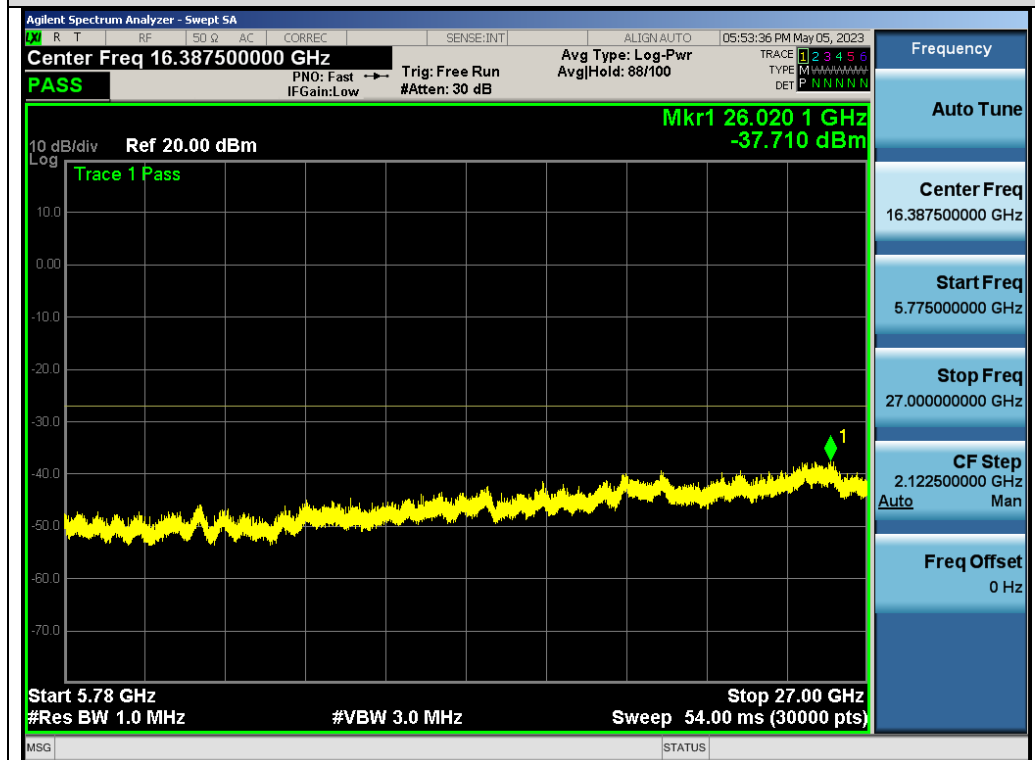


Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 2

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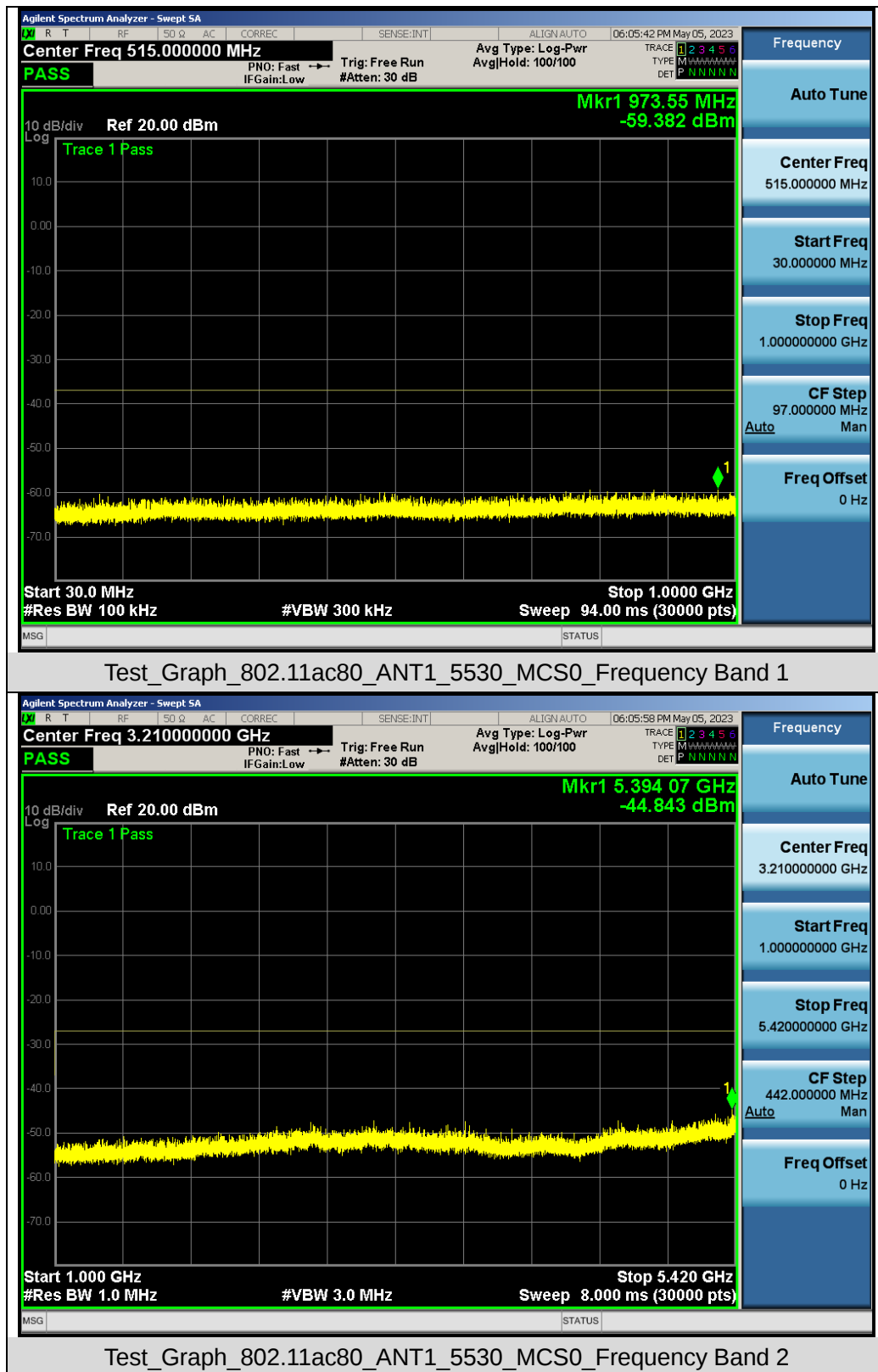


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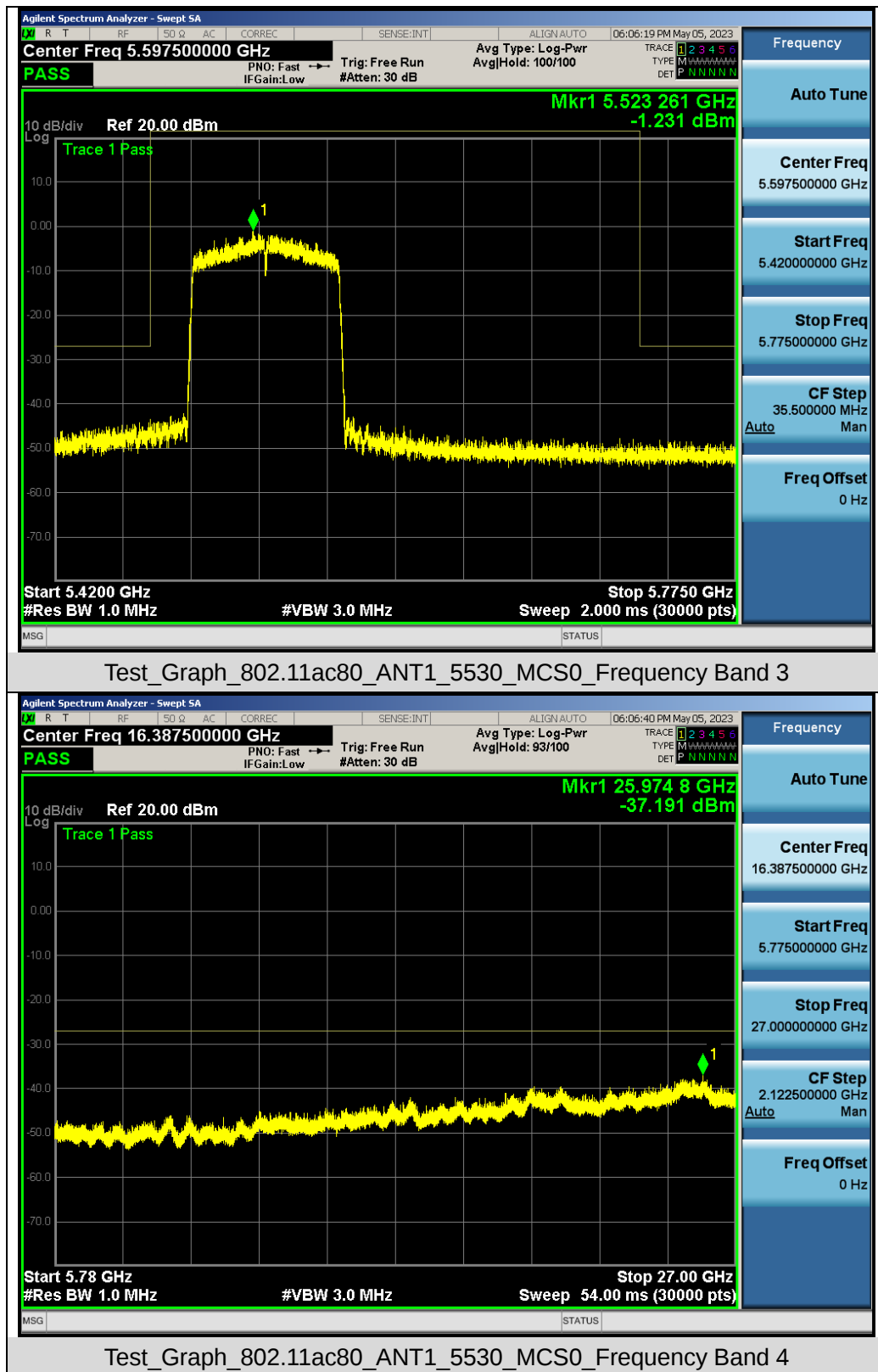


Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 4

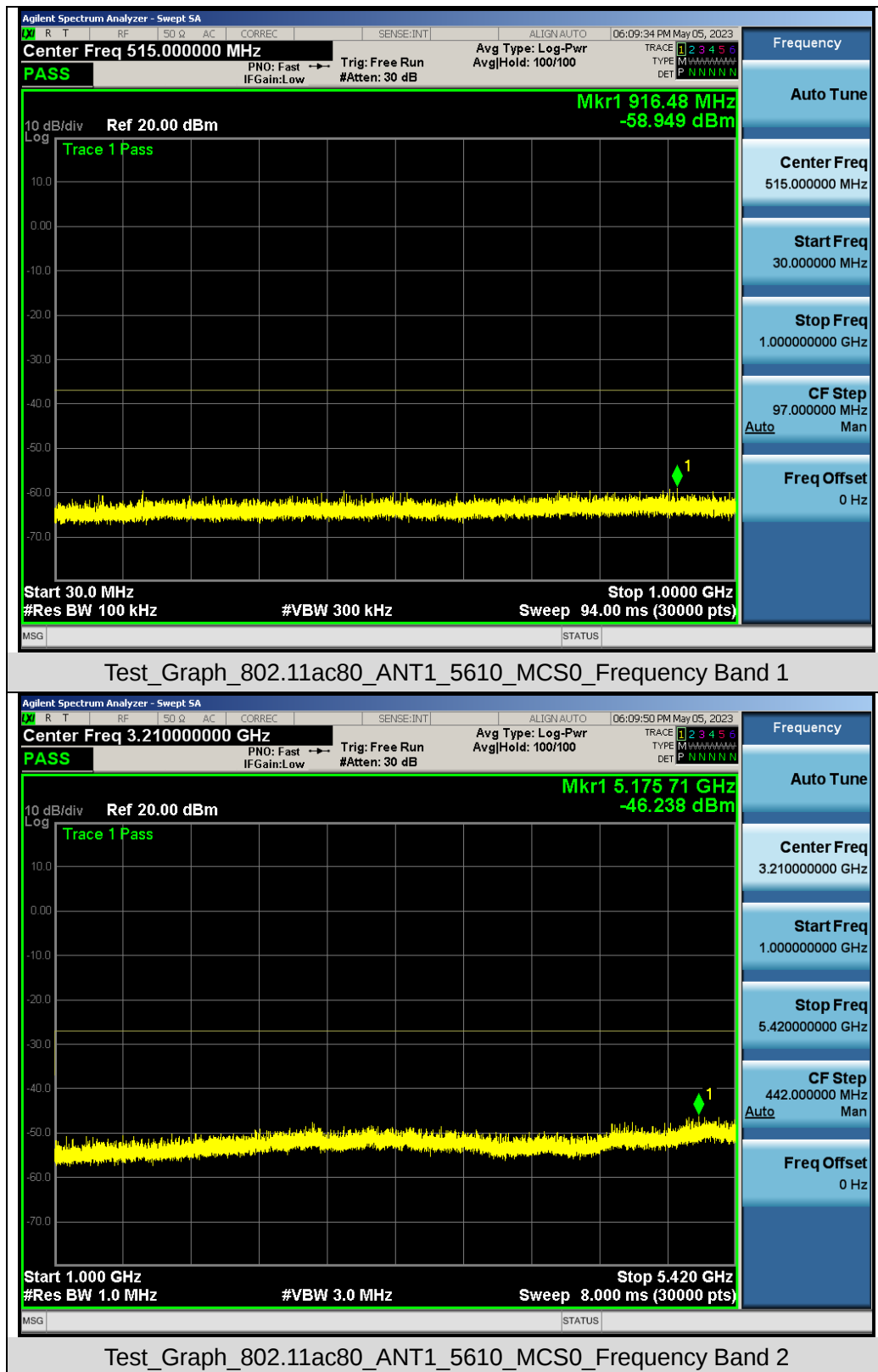
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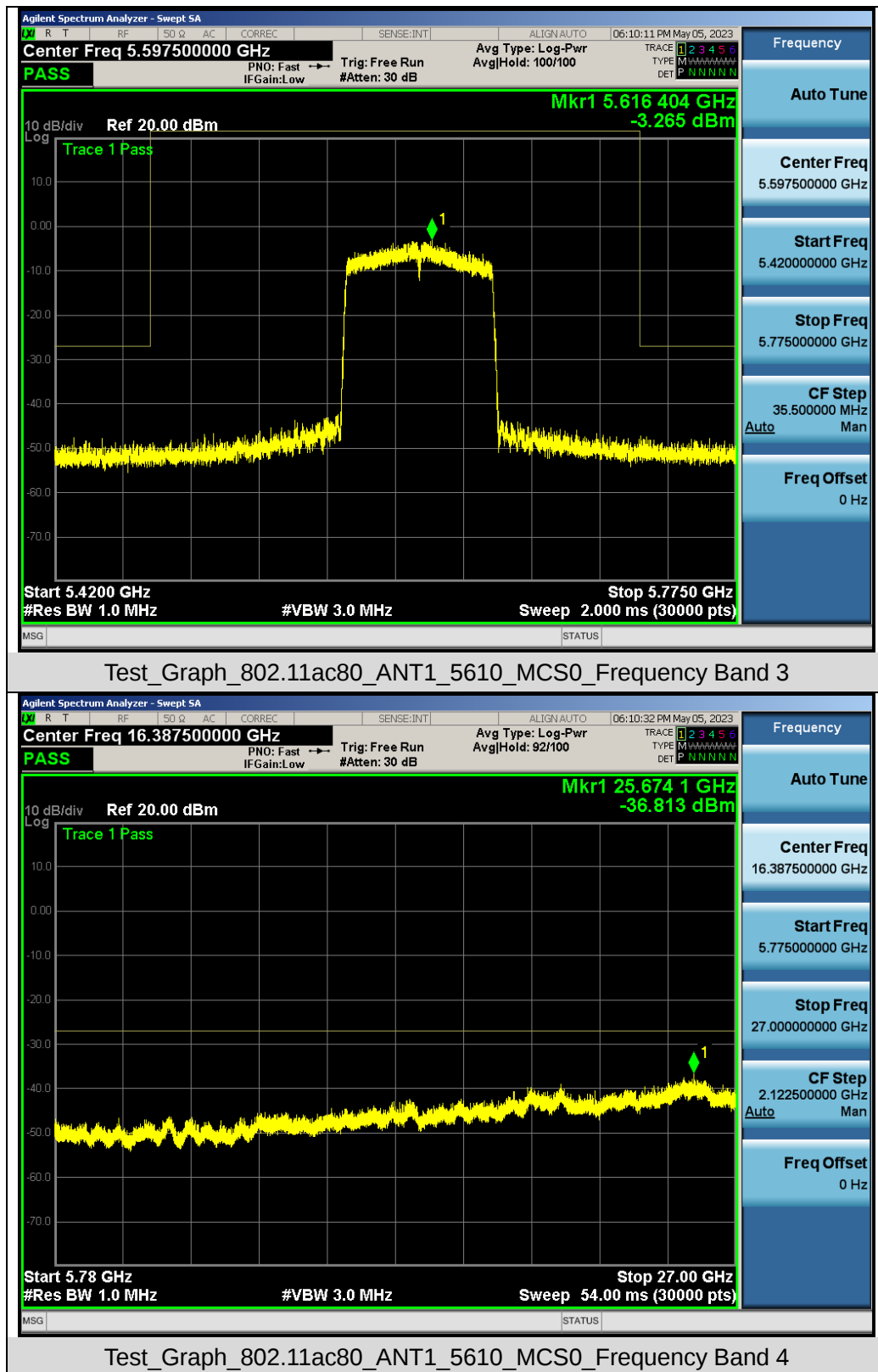
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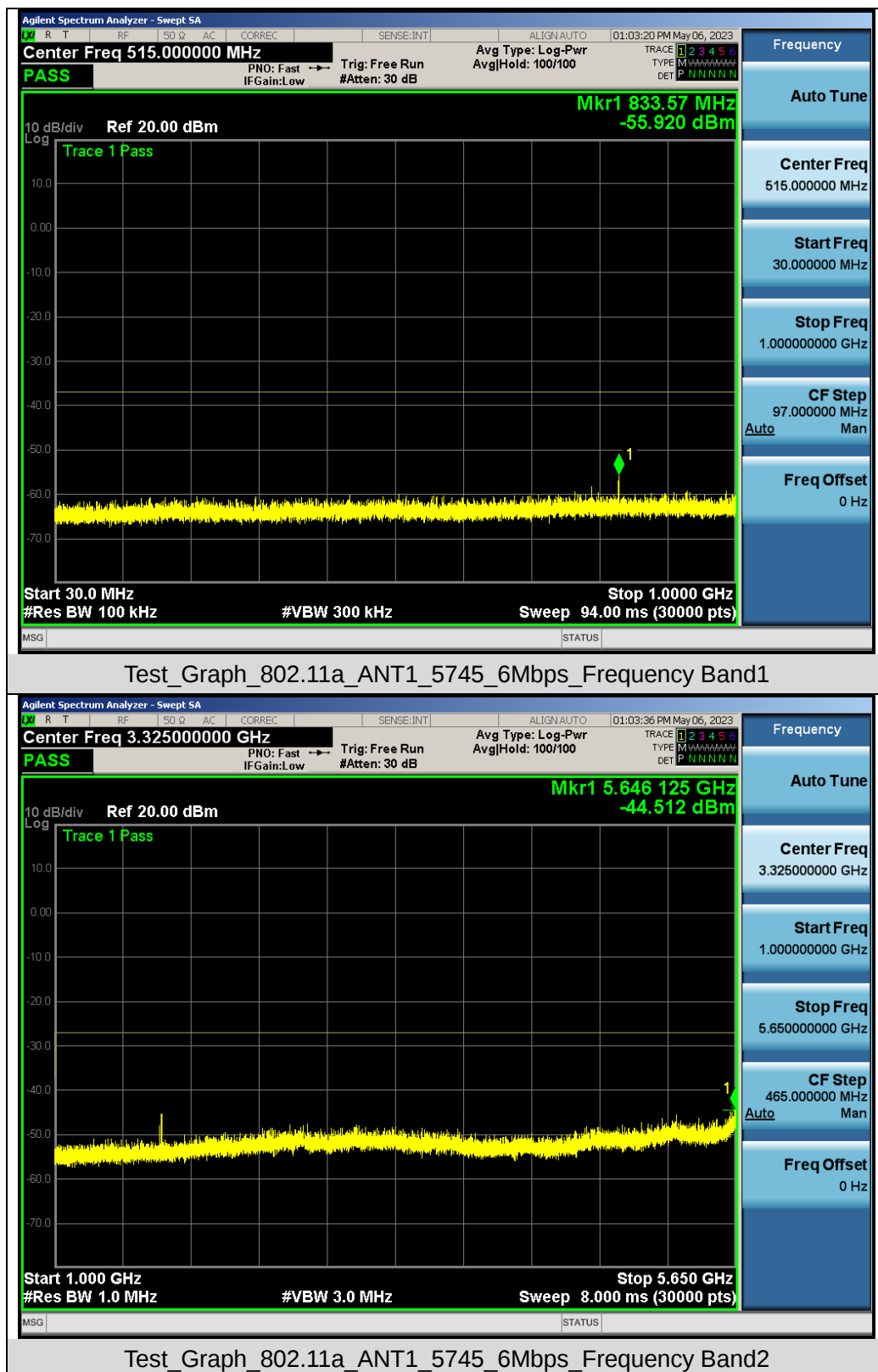
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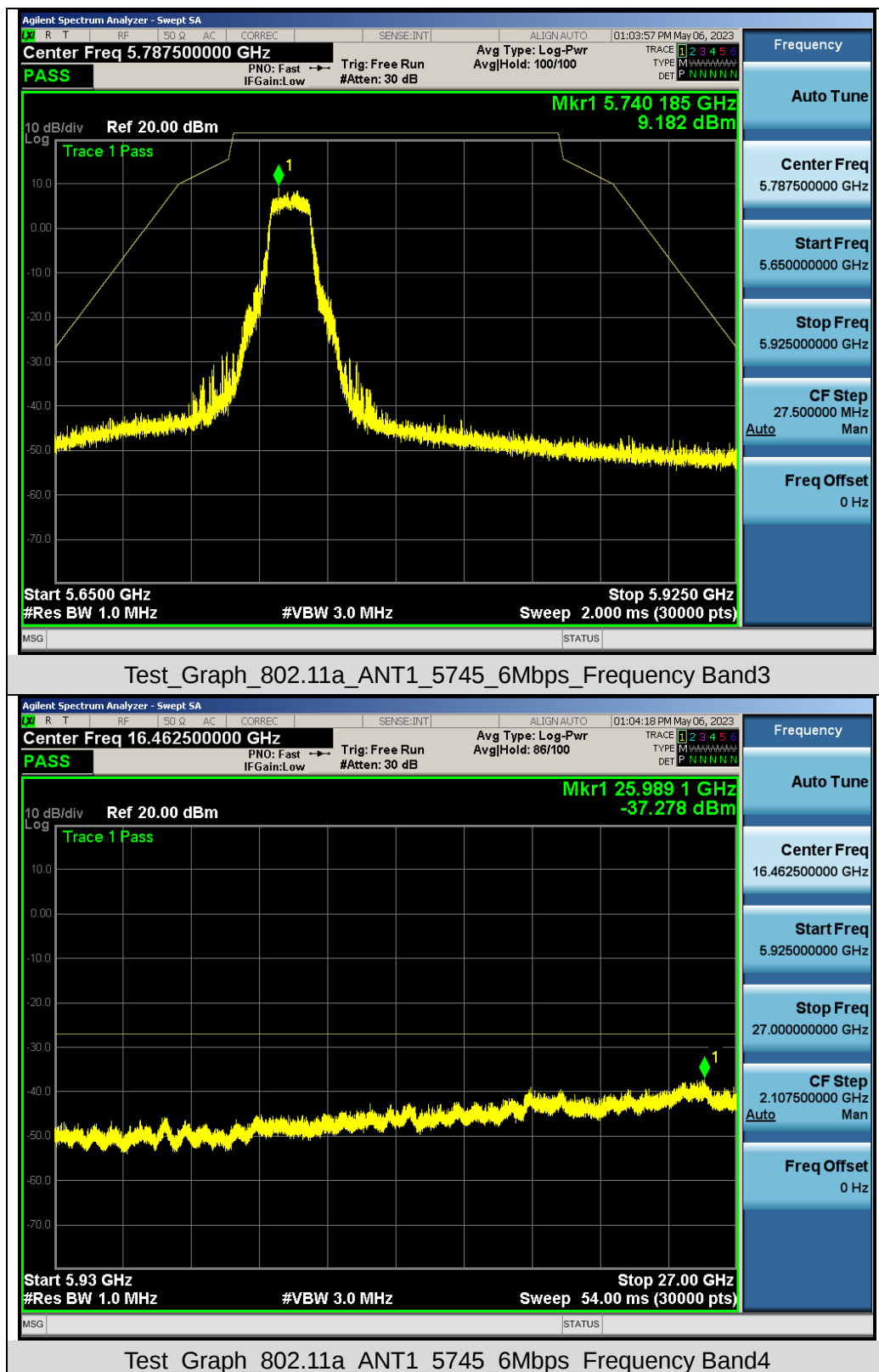
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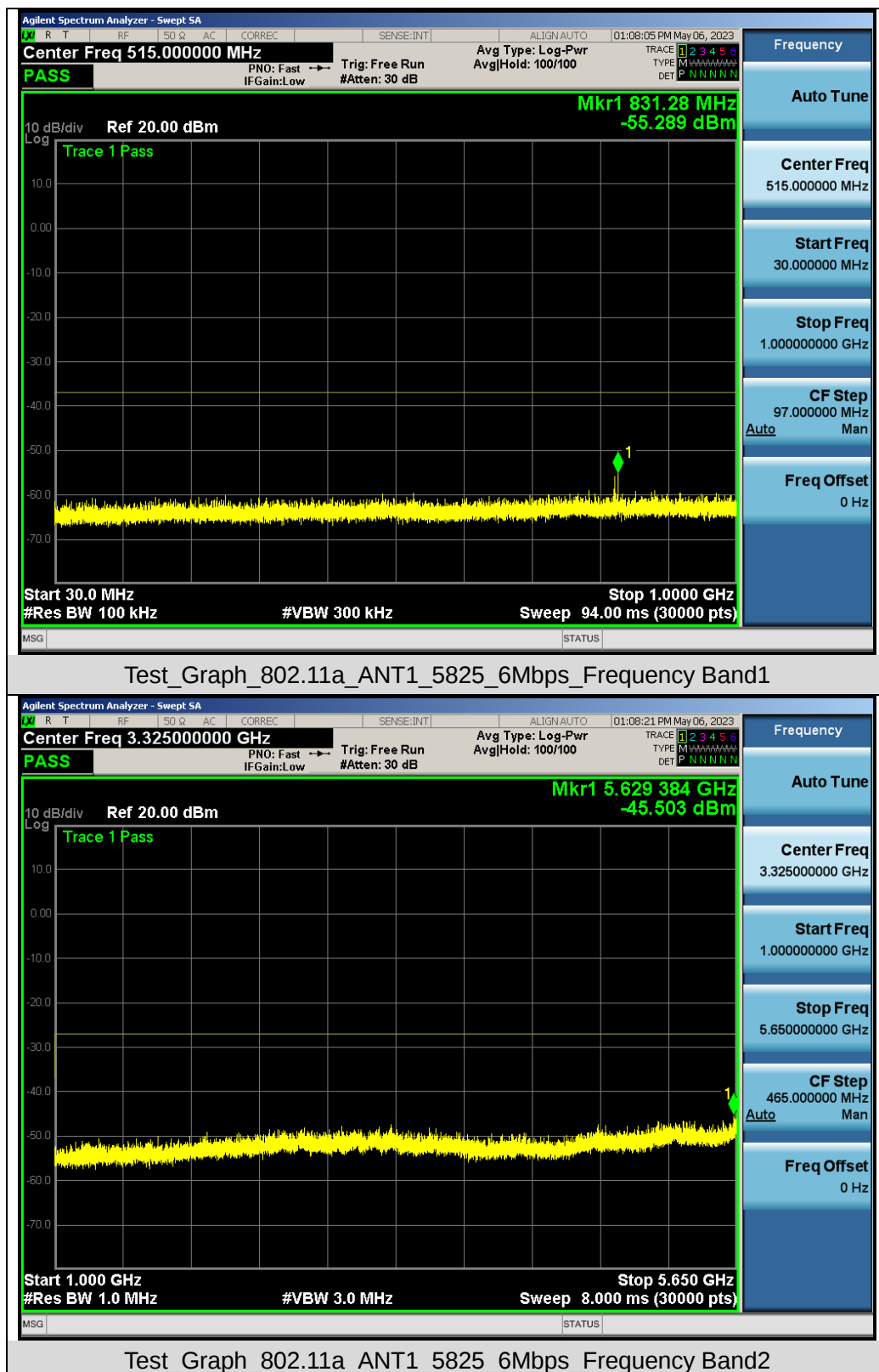
Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band-Ant 1



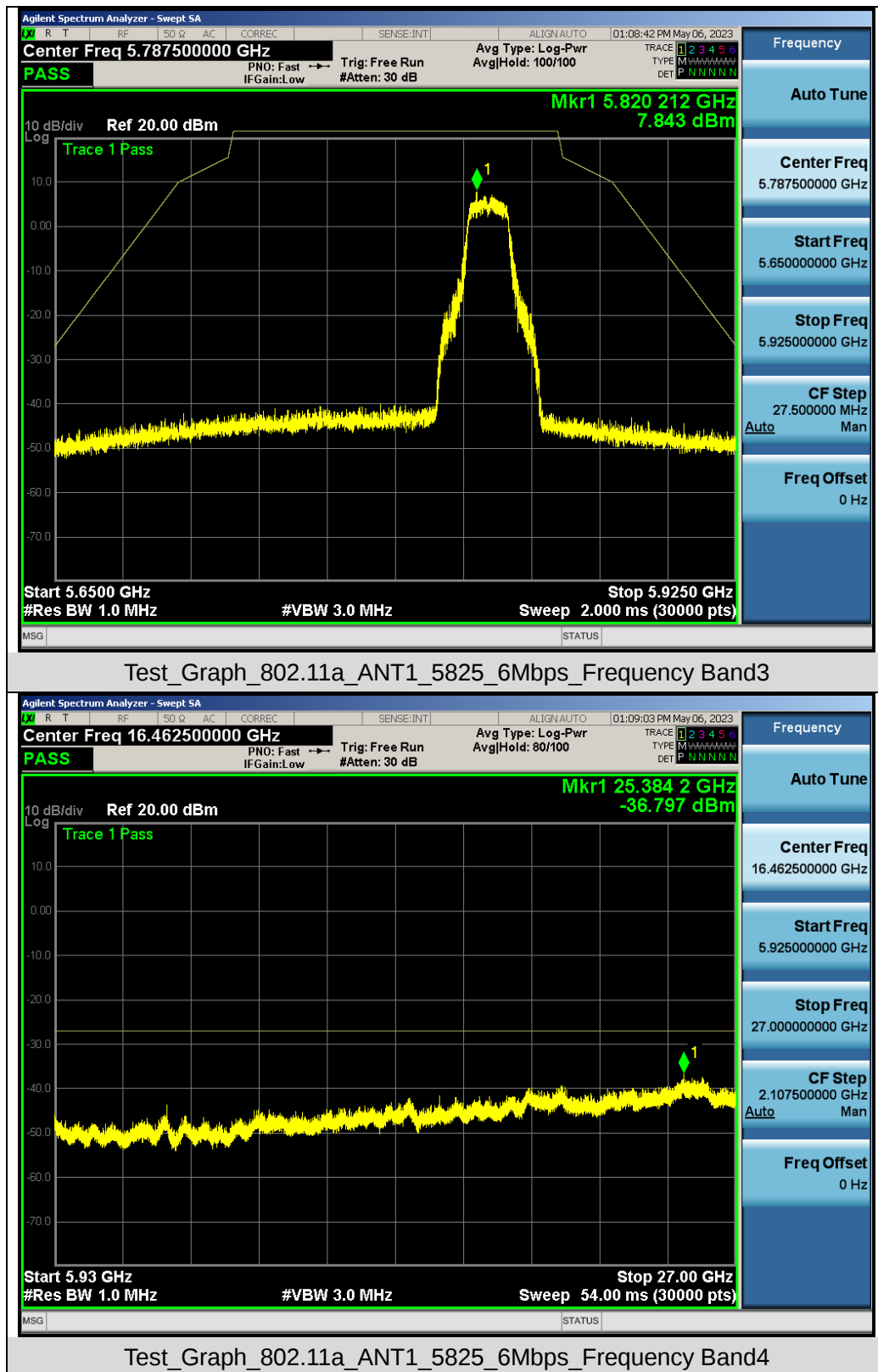
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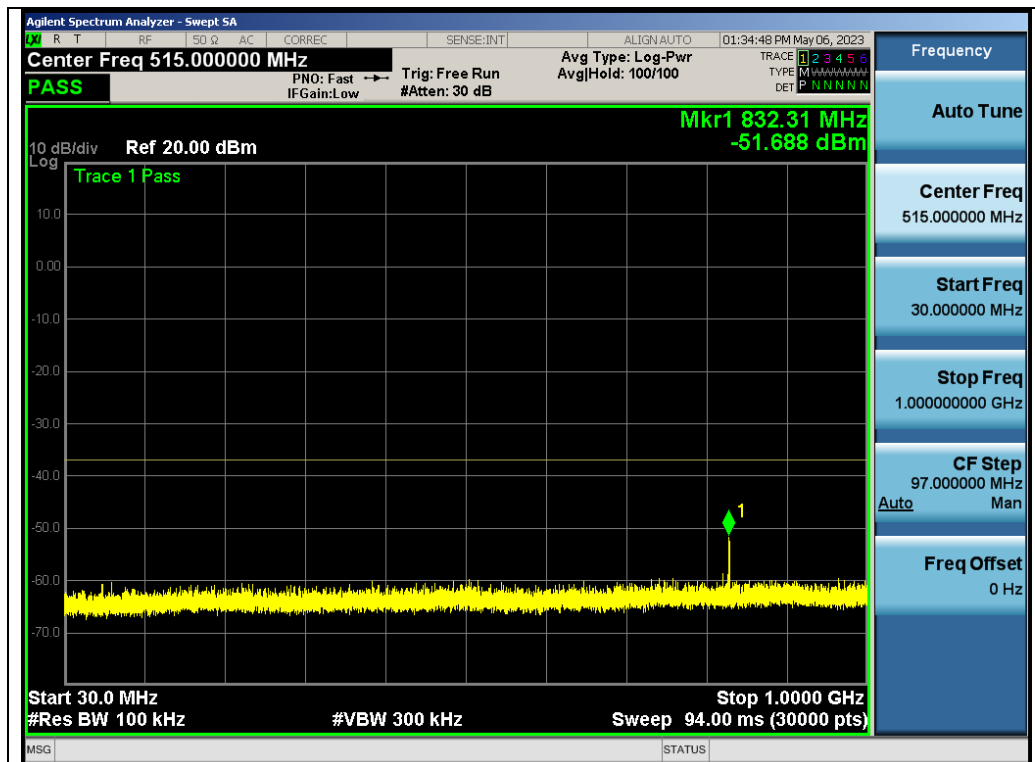


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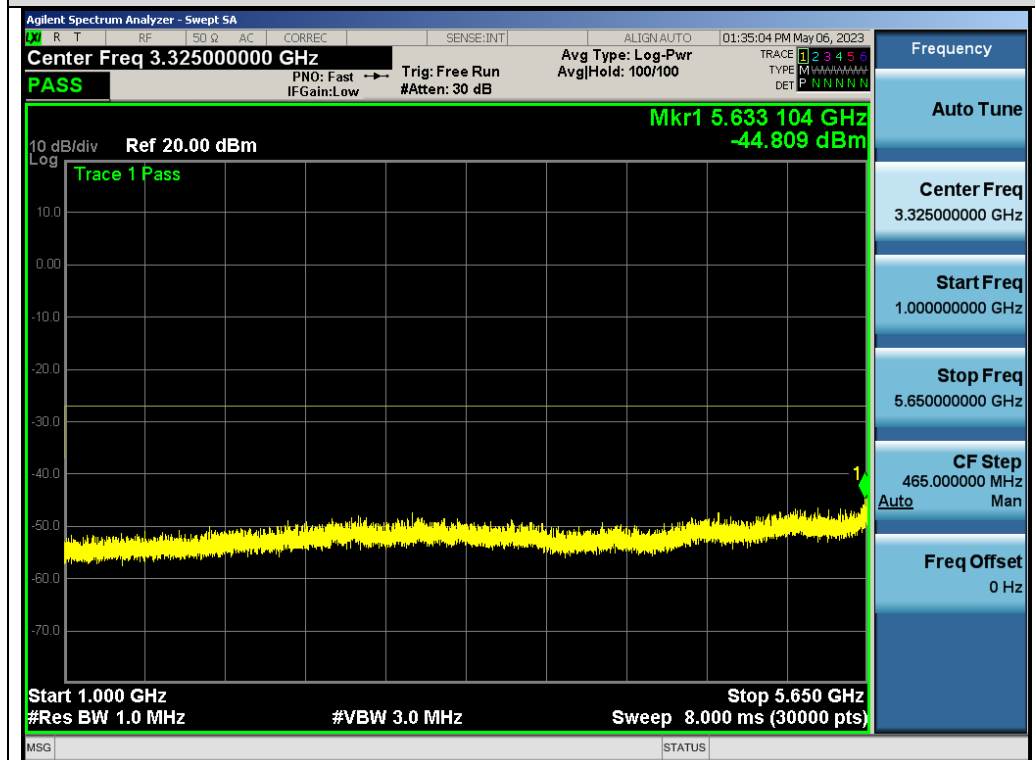


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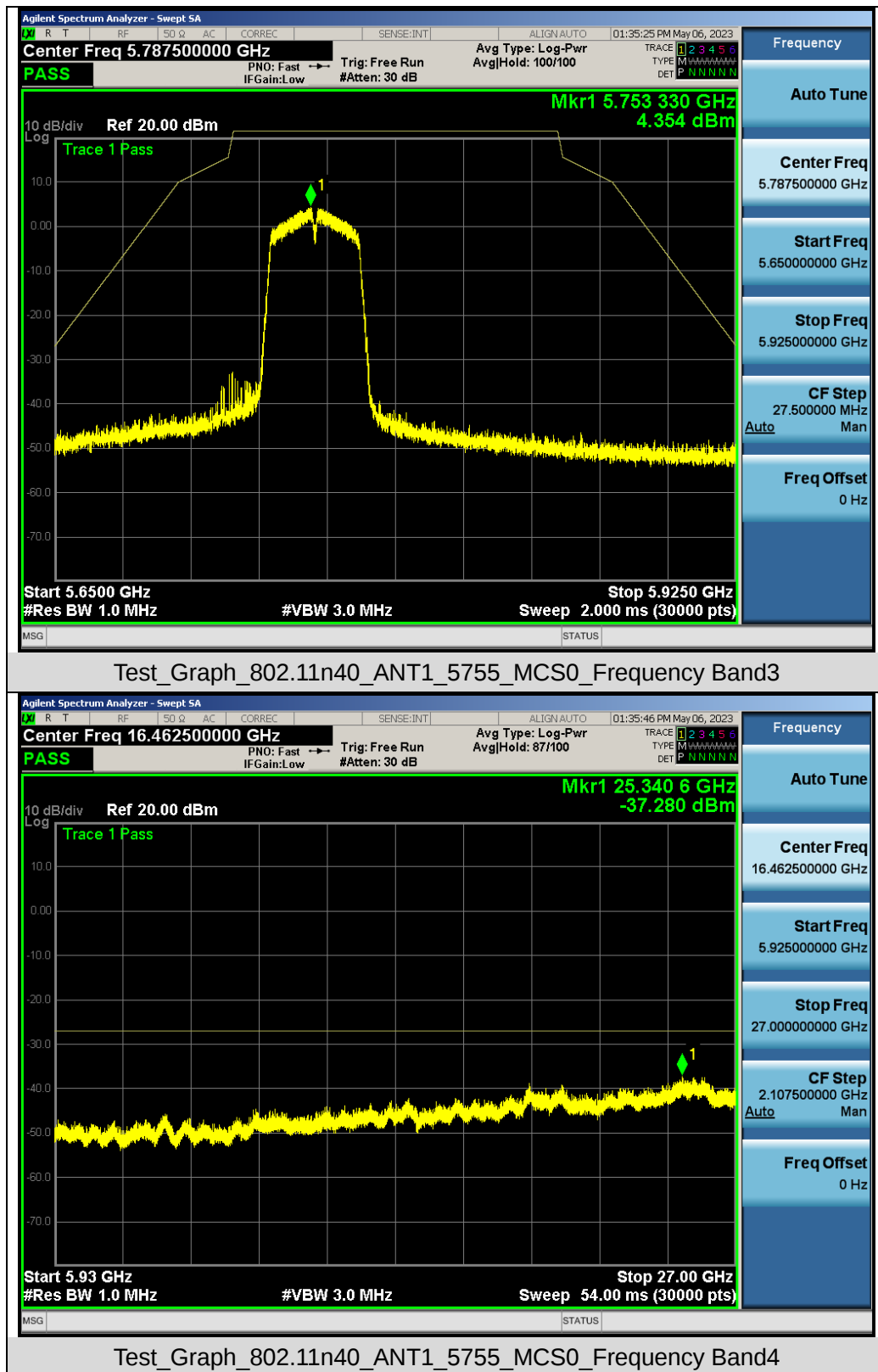
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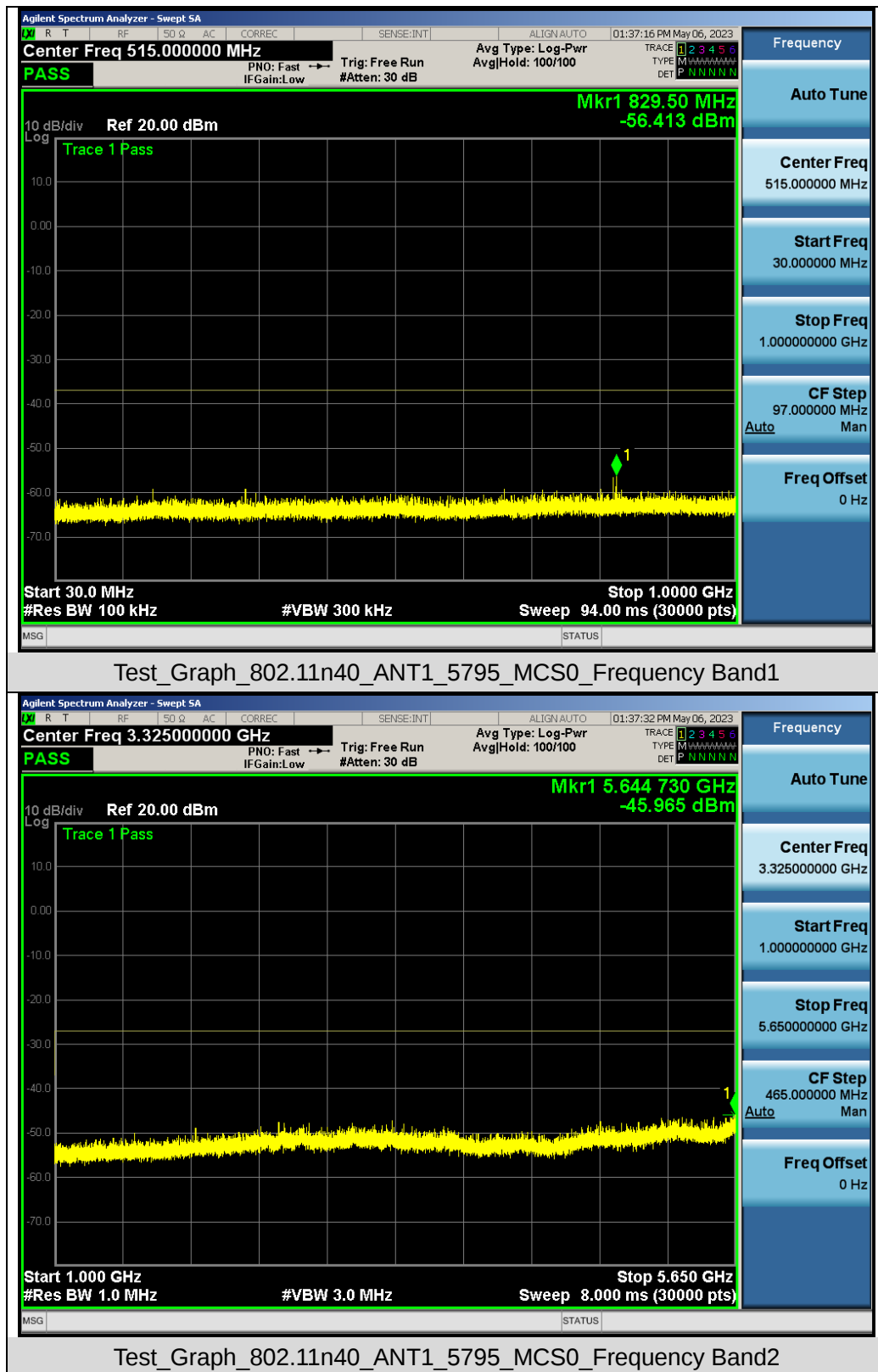
Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band2

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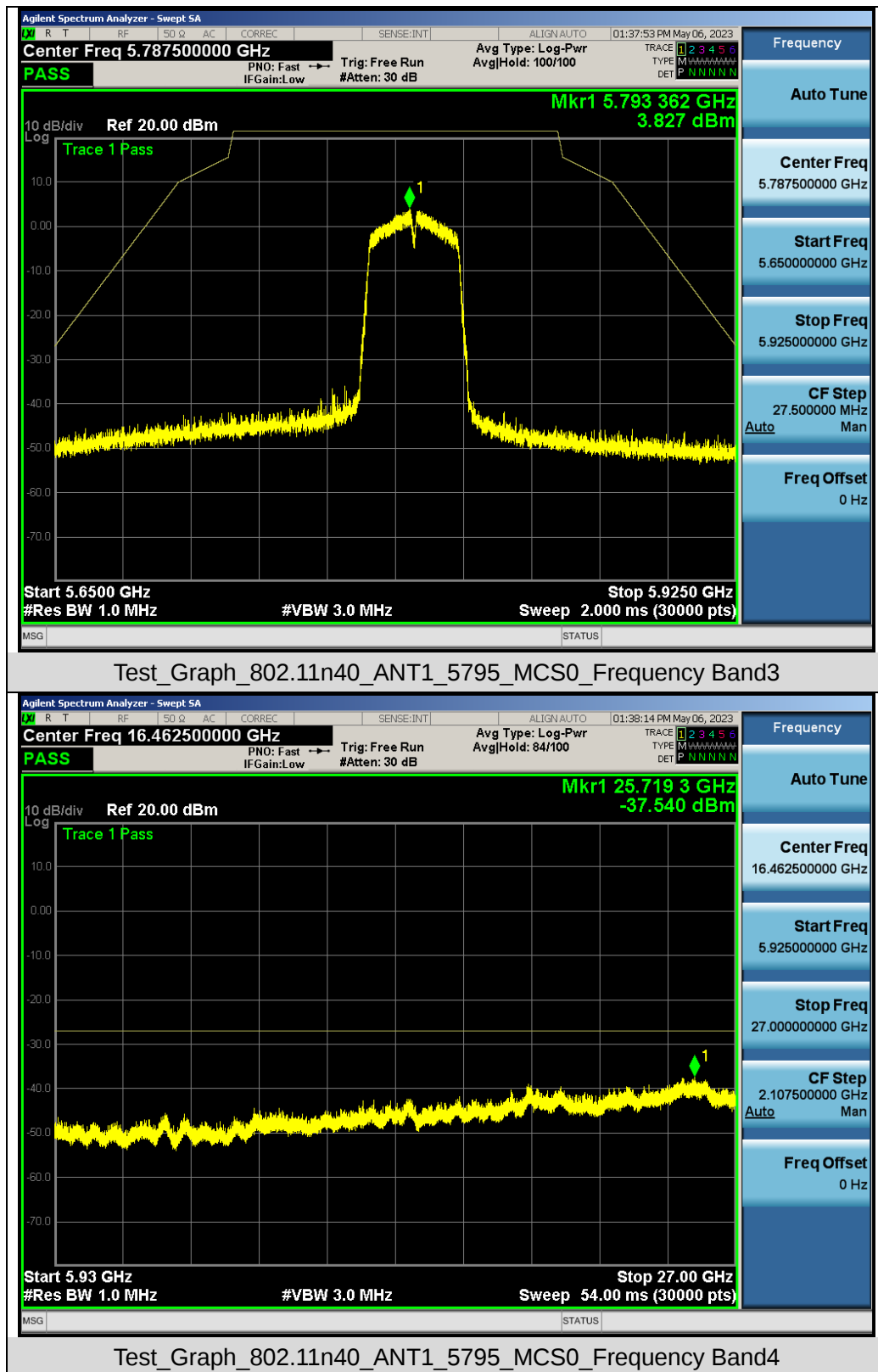
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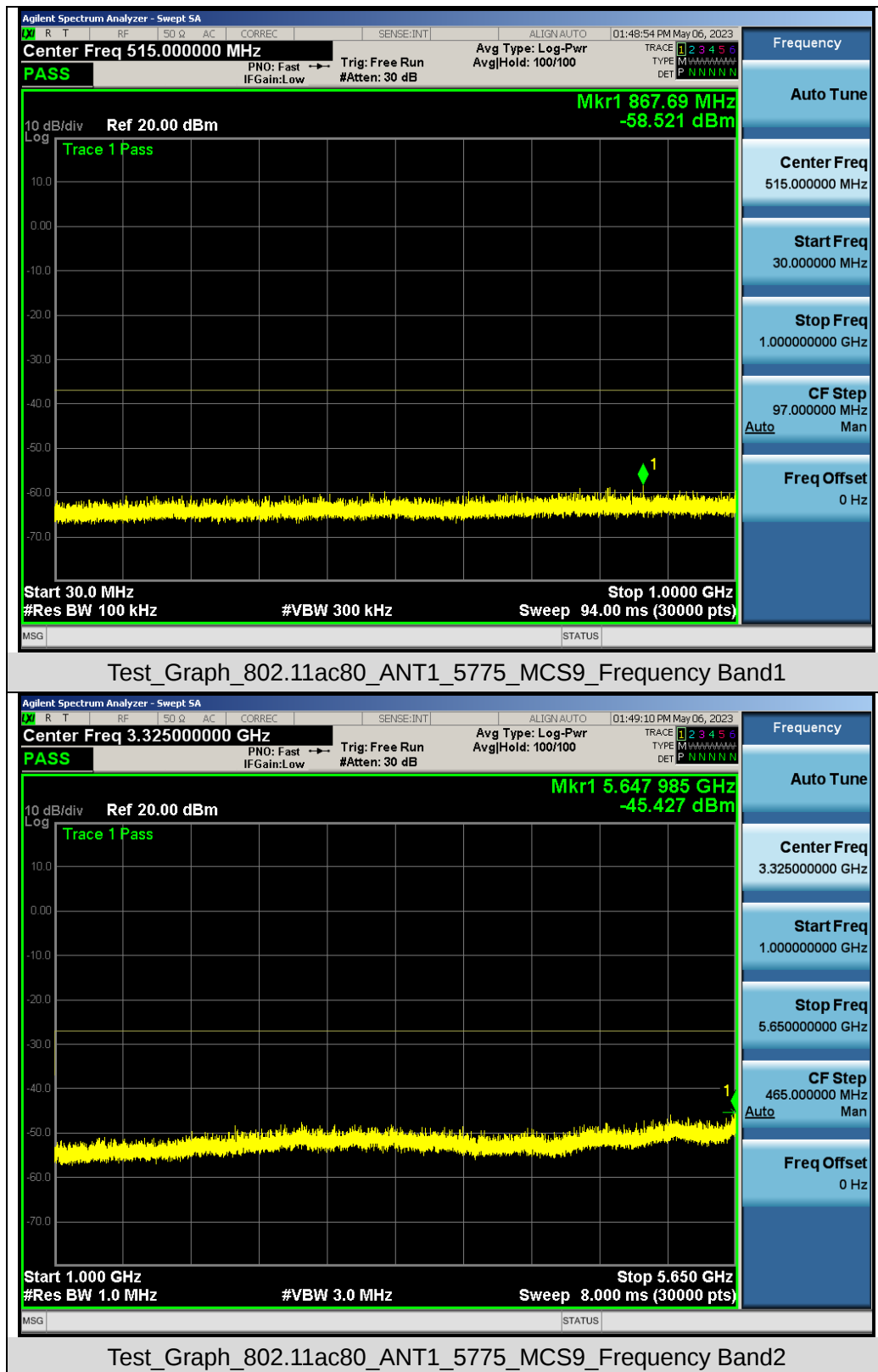
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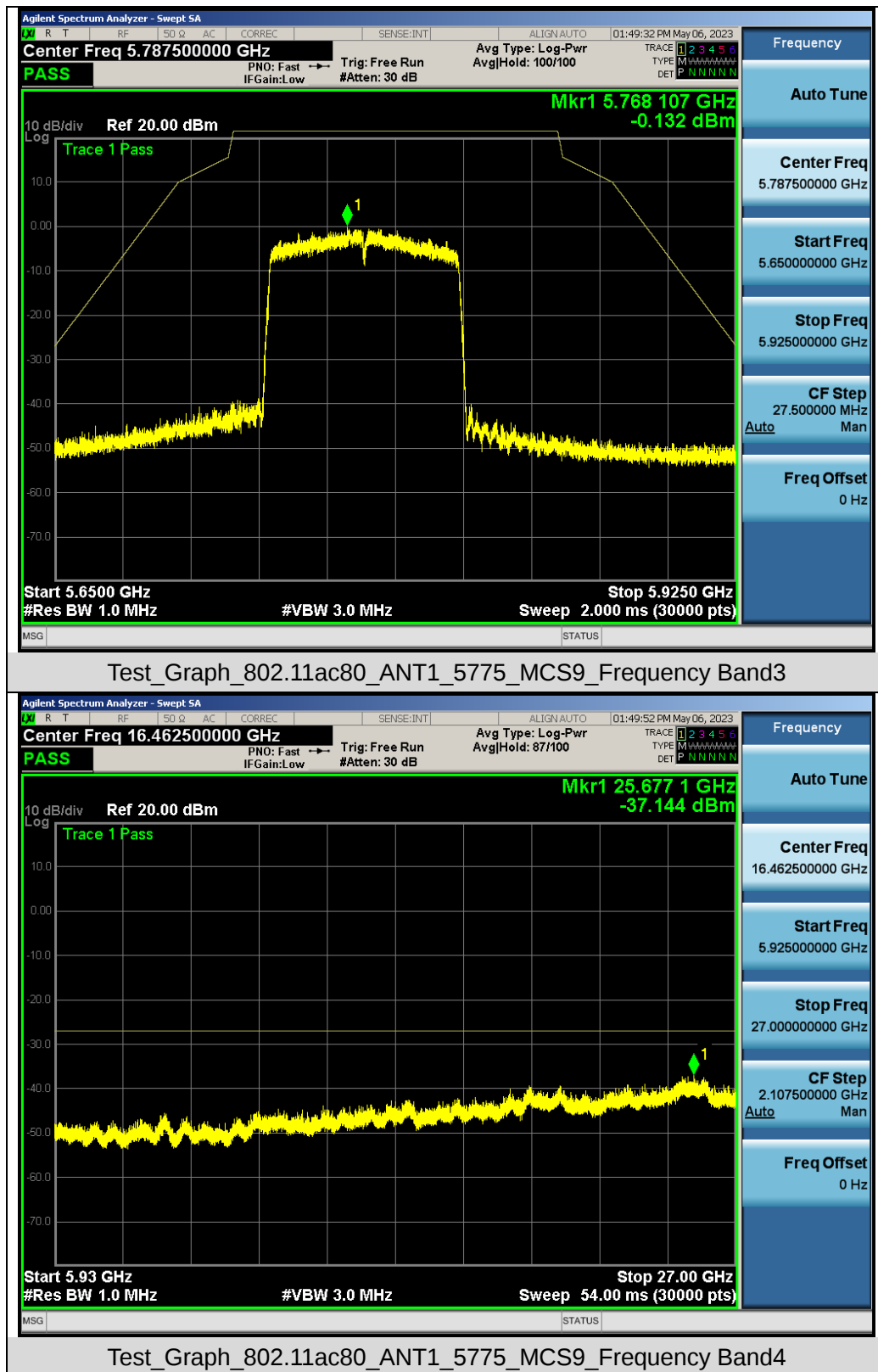


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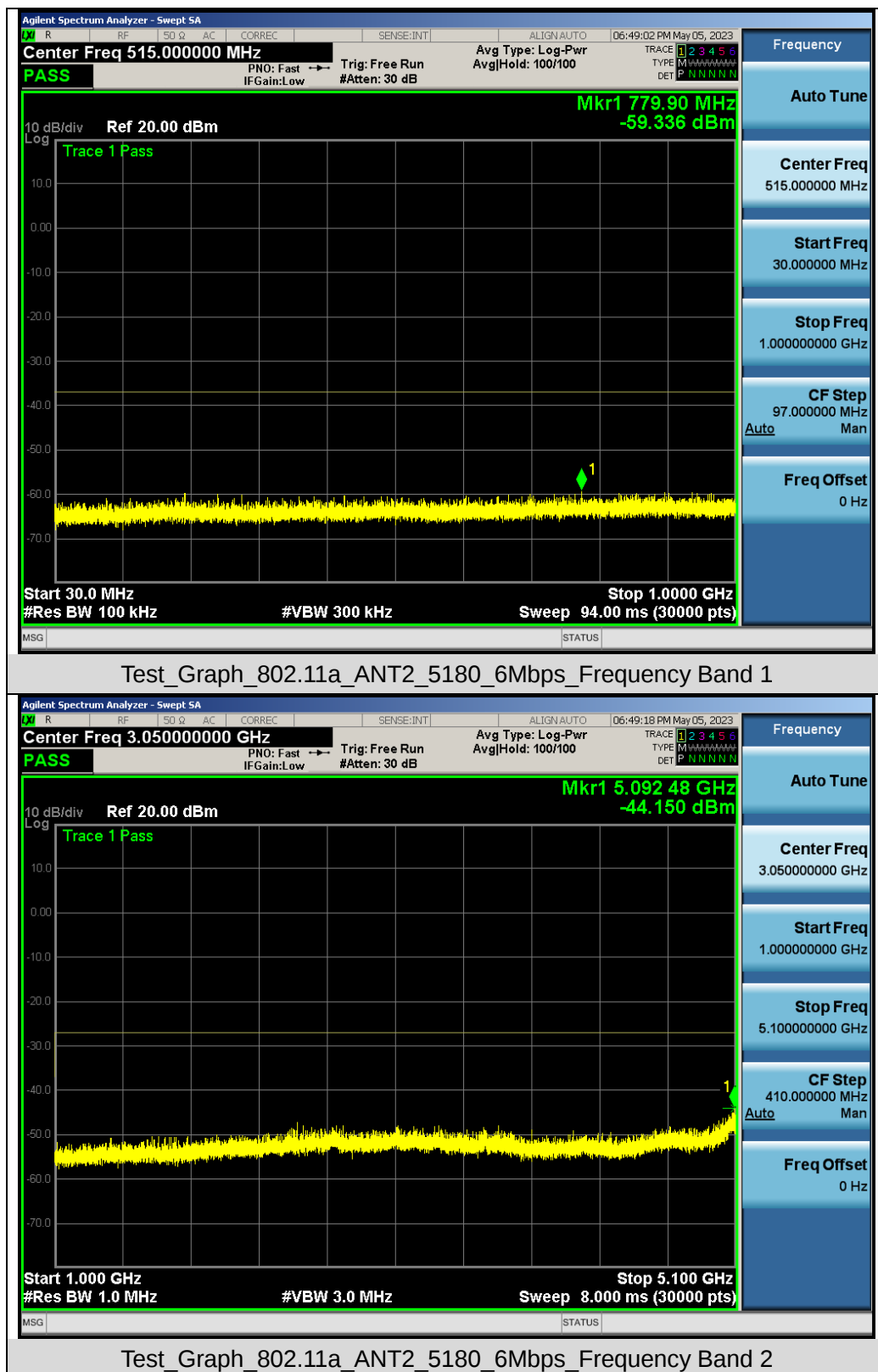
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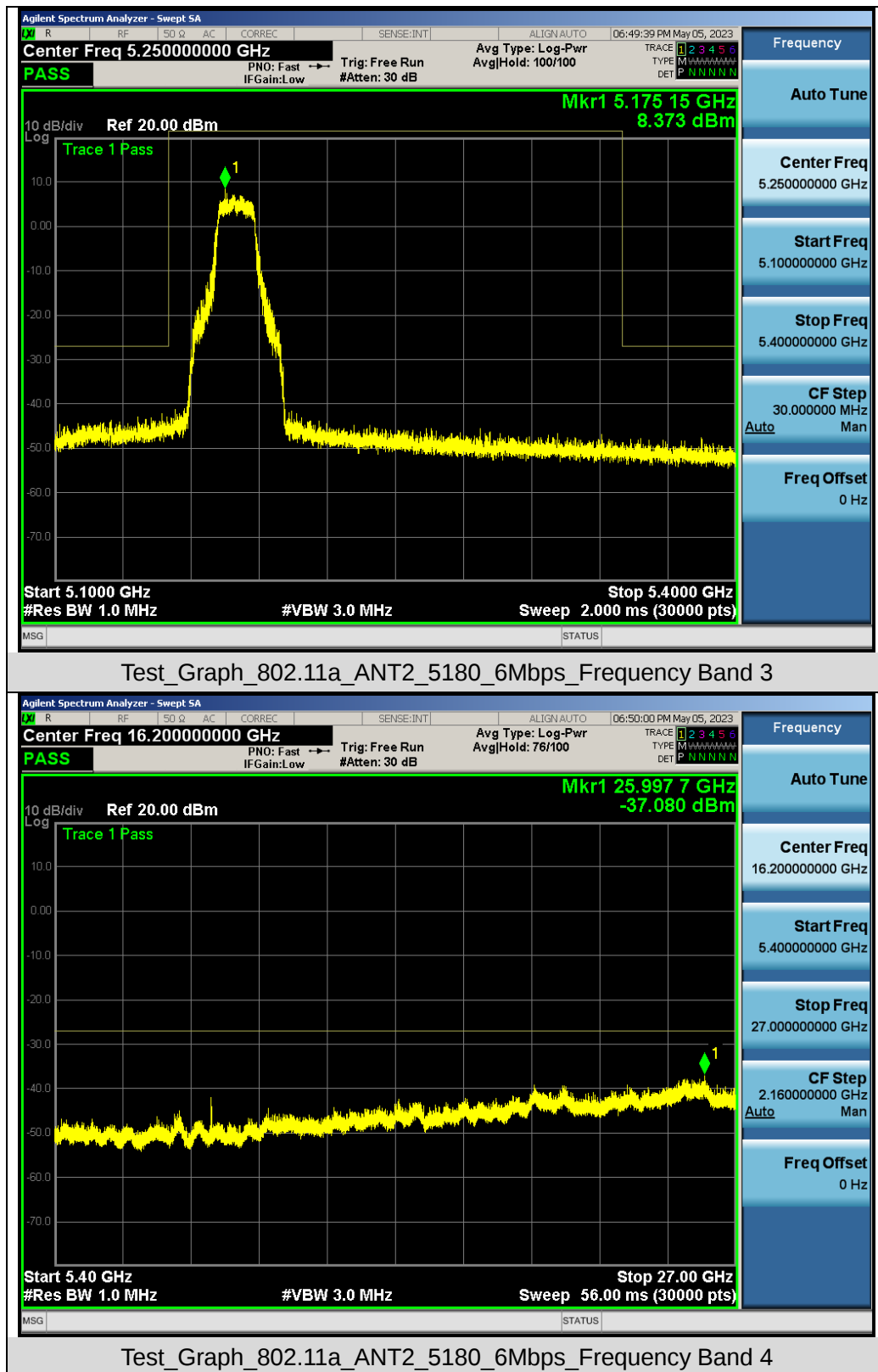


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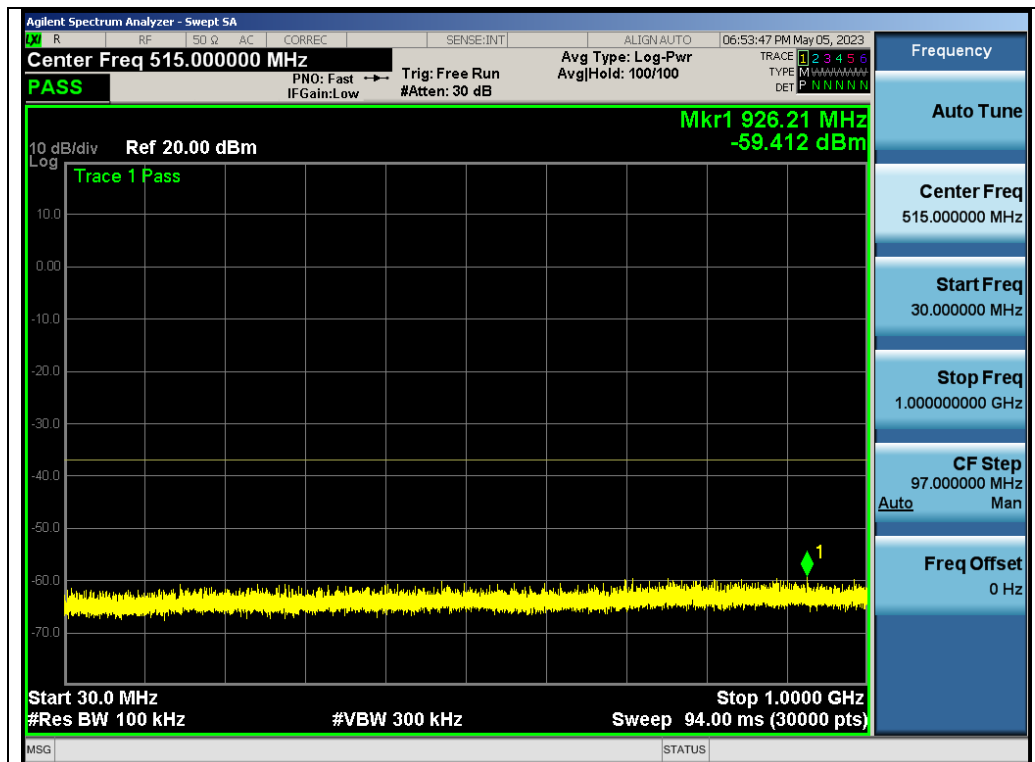
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band-Ant 2



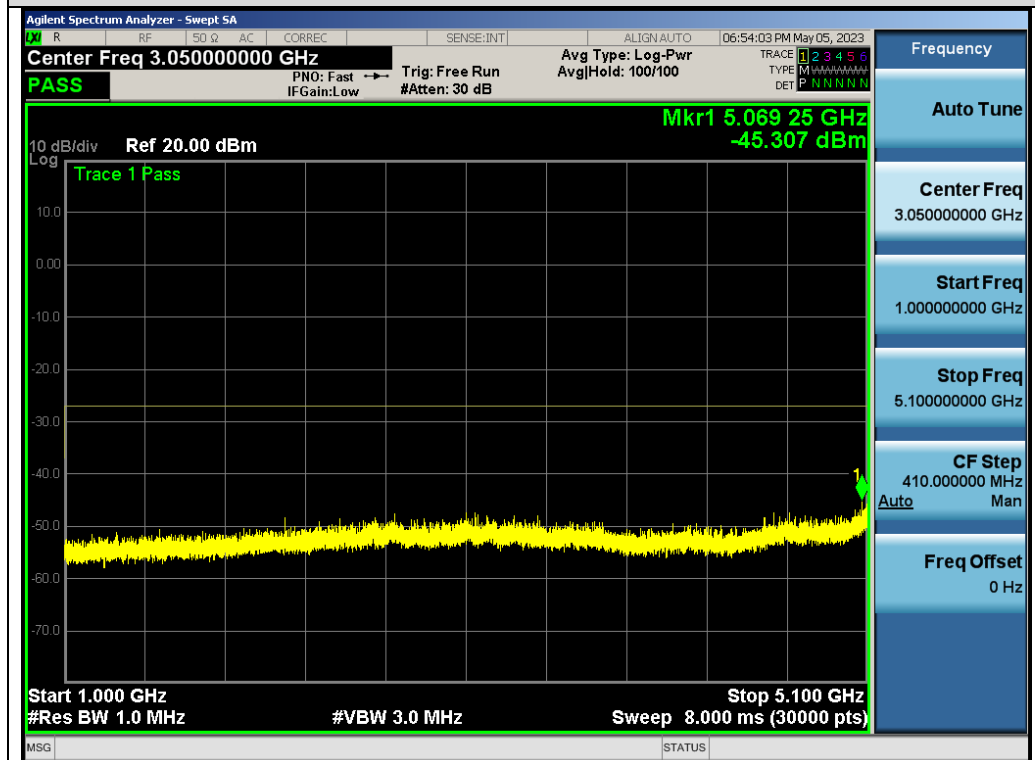
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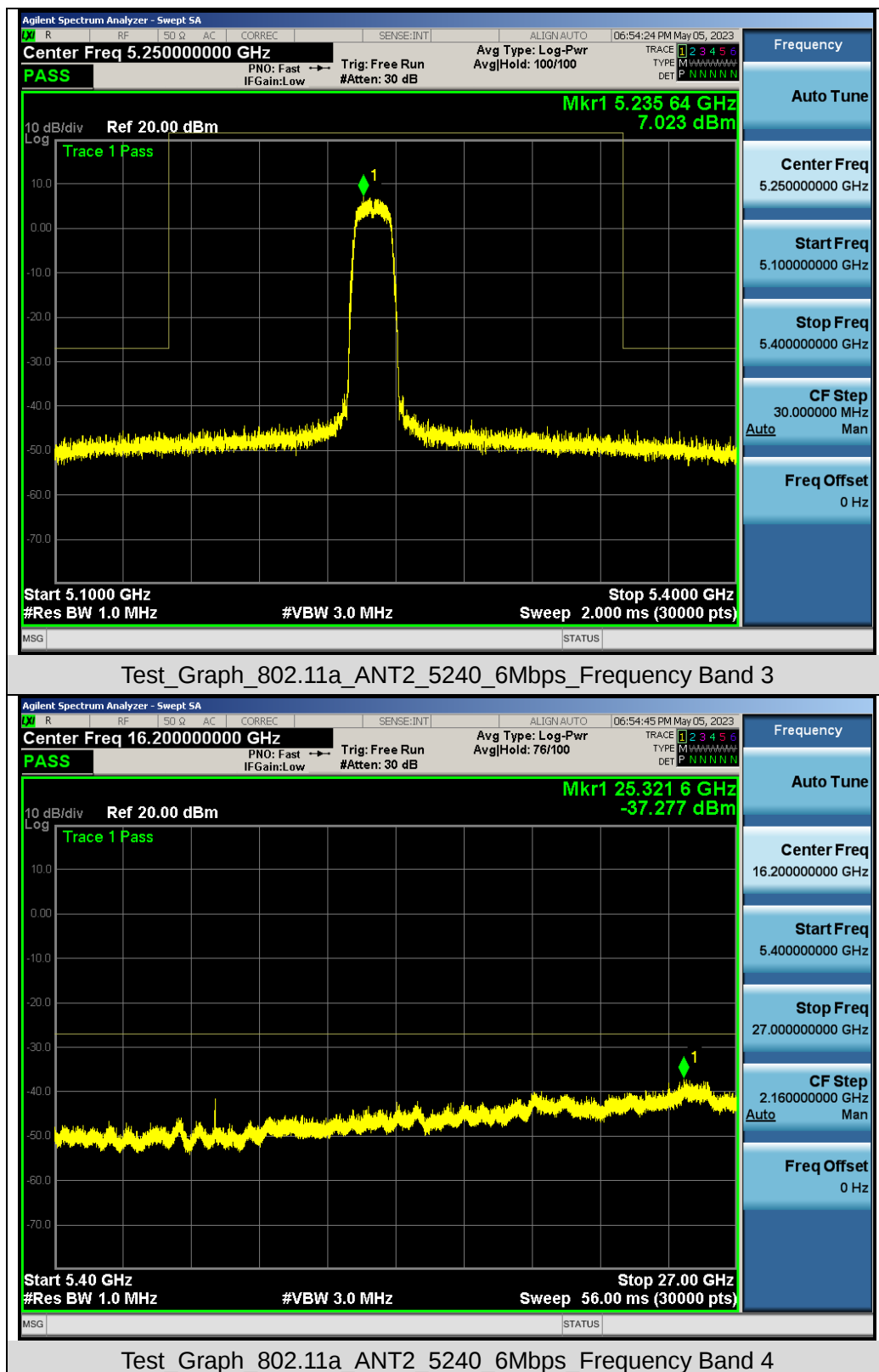
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Test_Graph_802.11a_ANT2_5240_6Mbps_Frequency Band 2

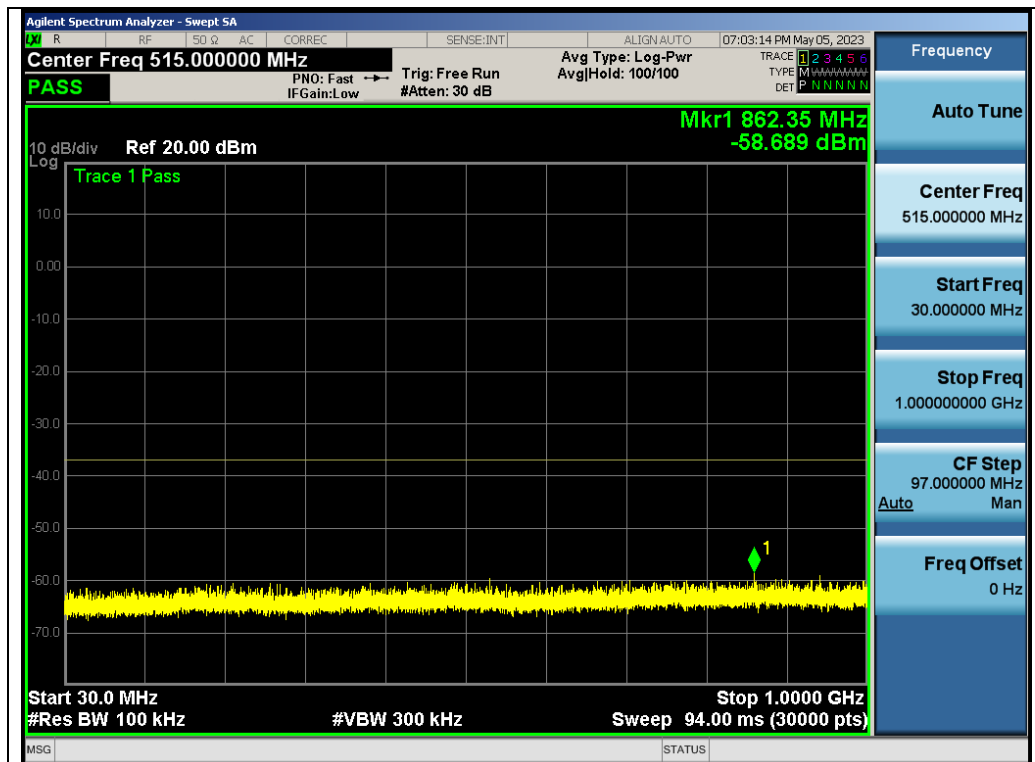
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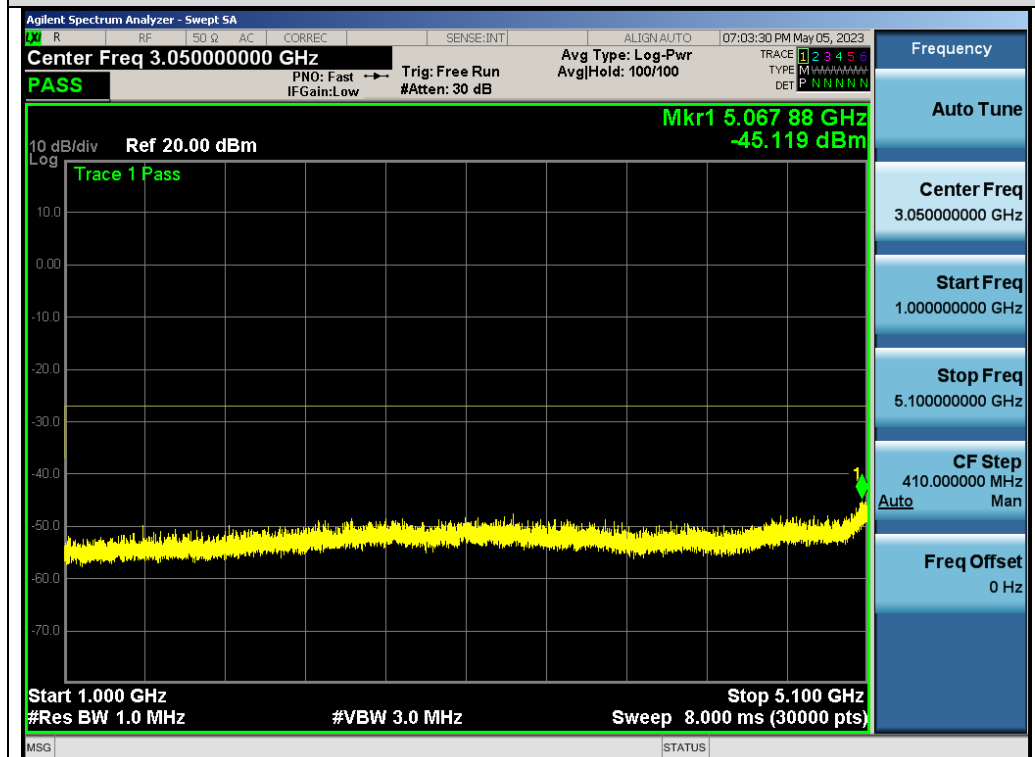


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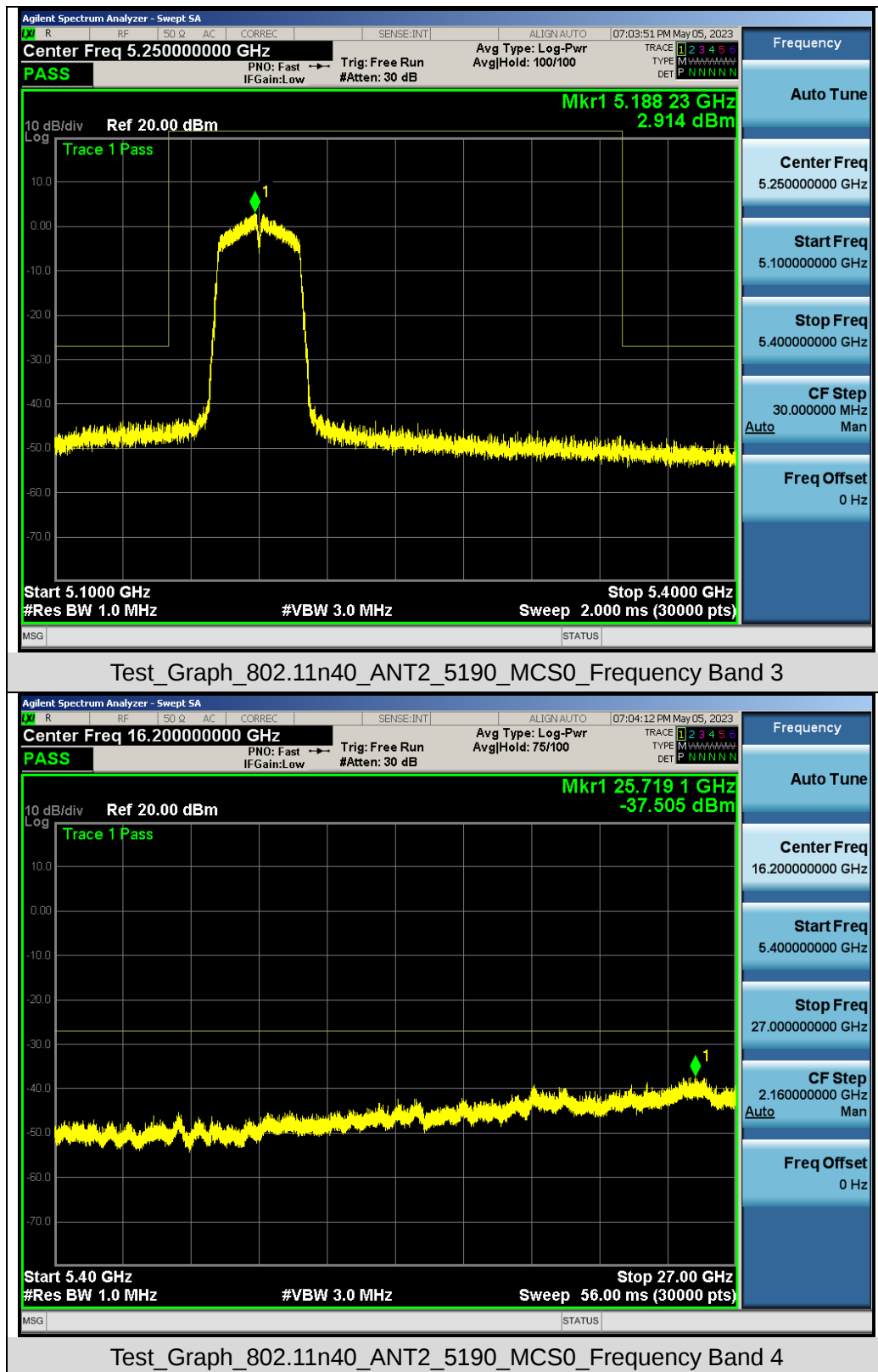


Test_Graph_802.11n40_ANT2_5190_MCS0_Frequency Band 1



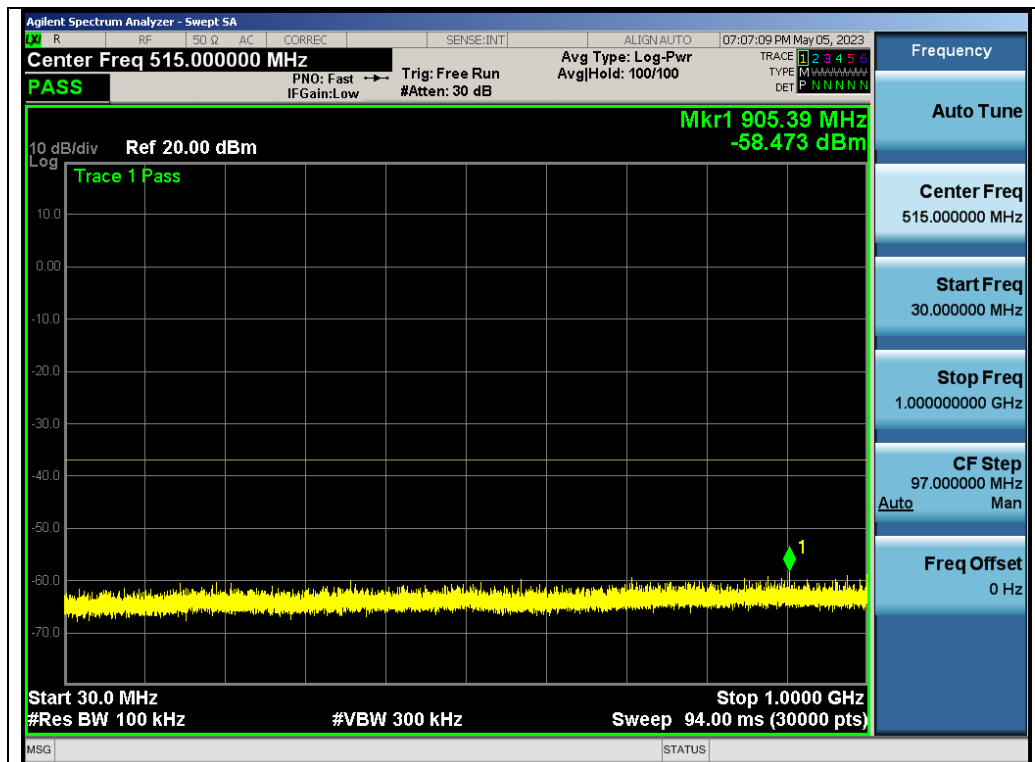
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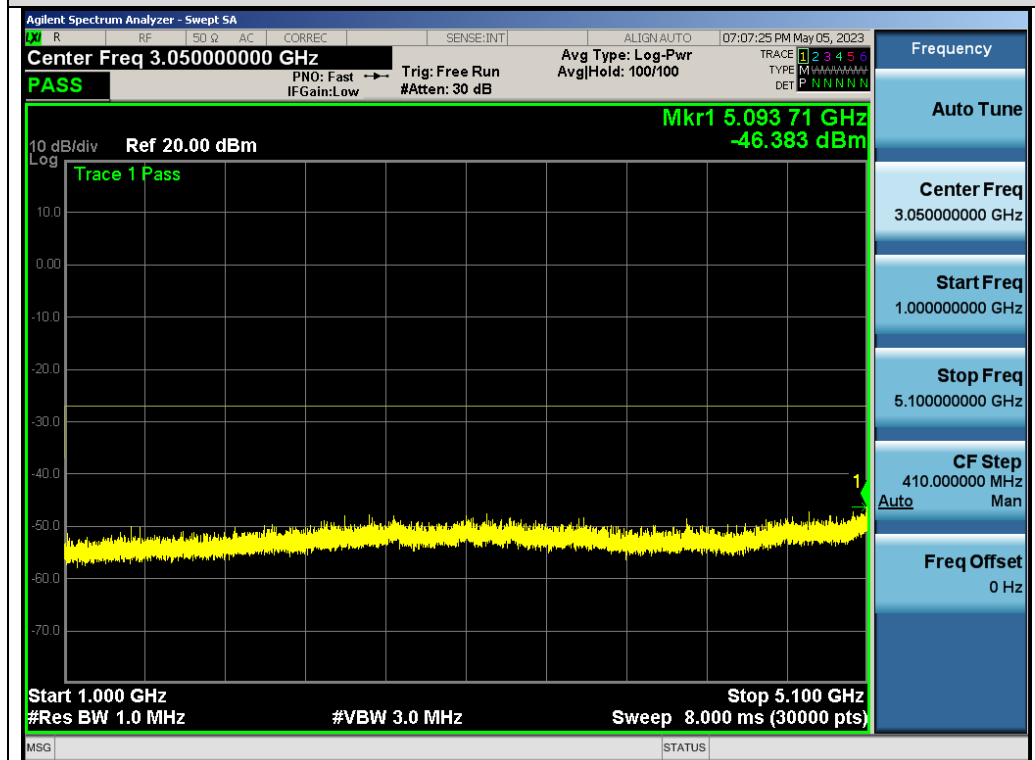


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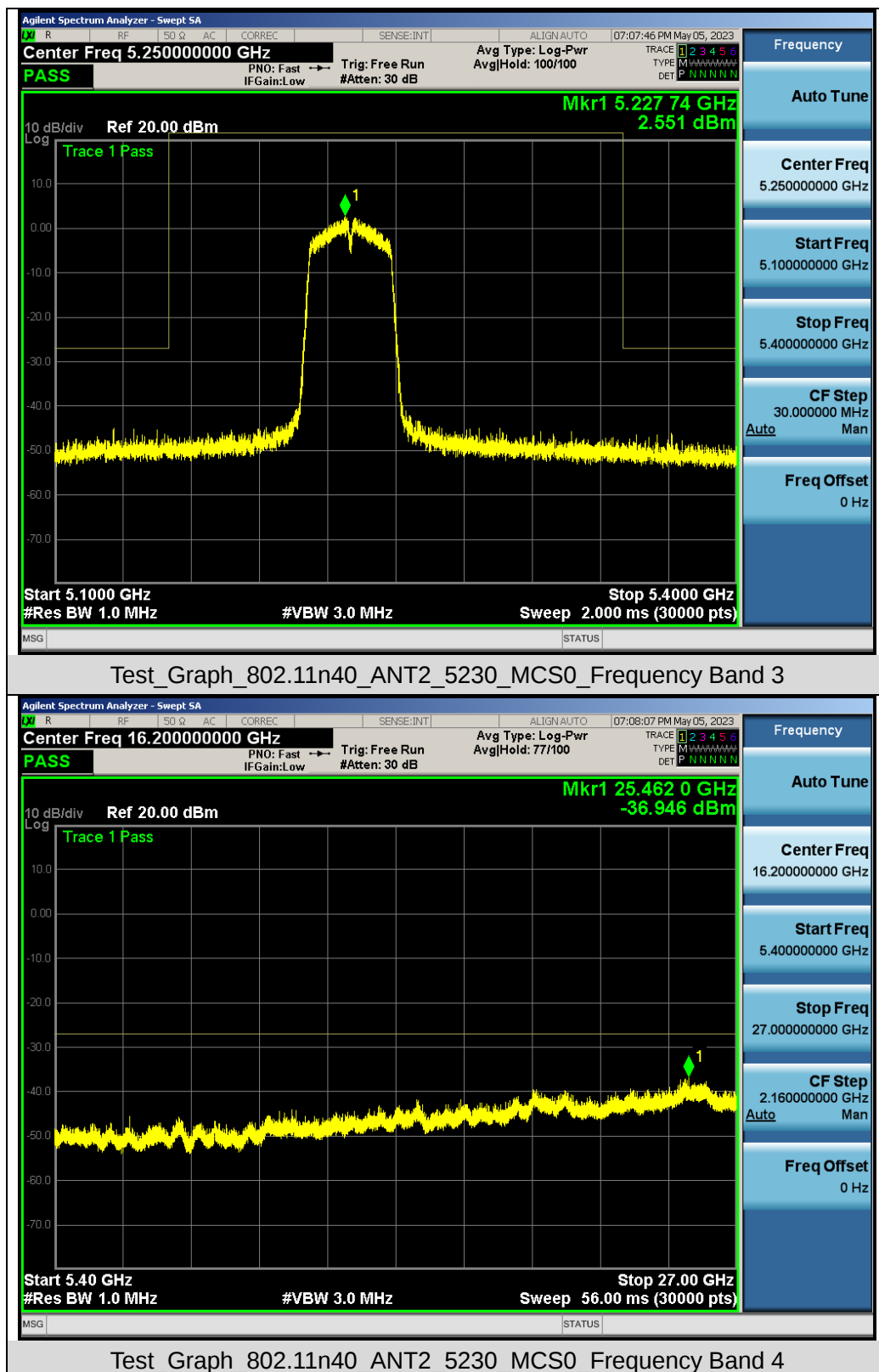


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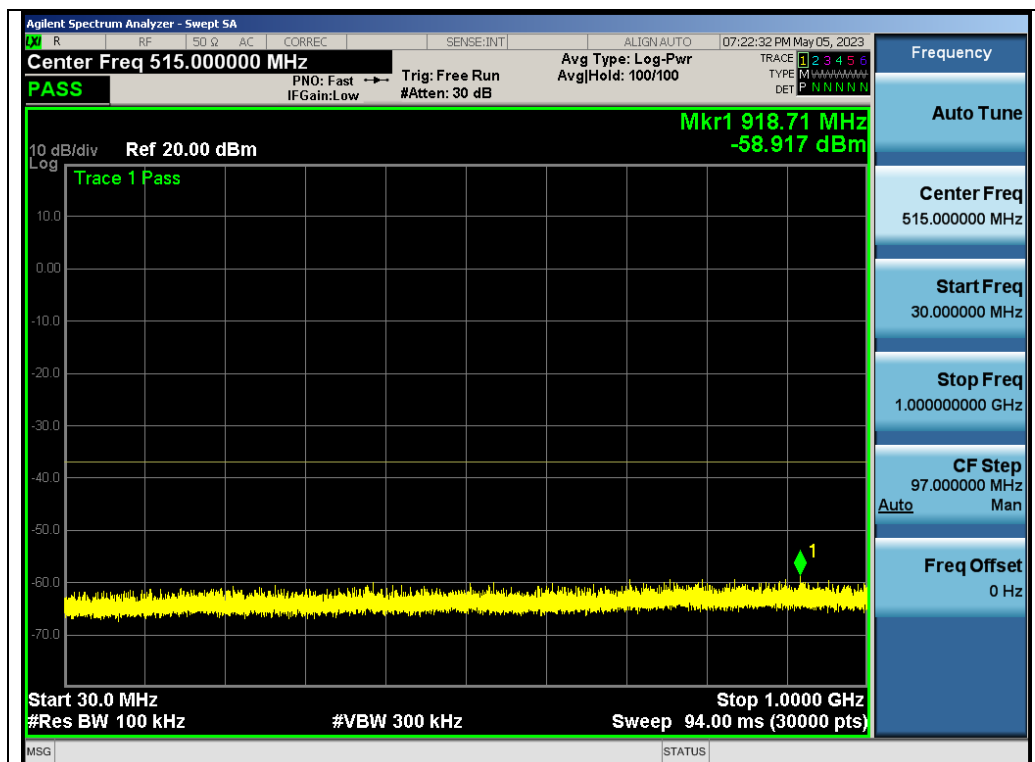
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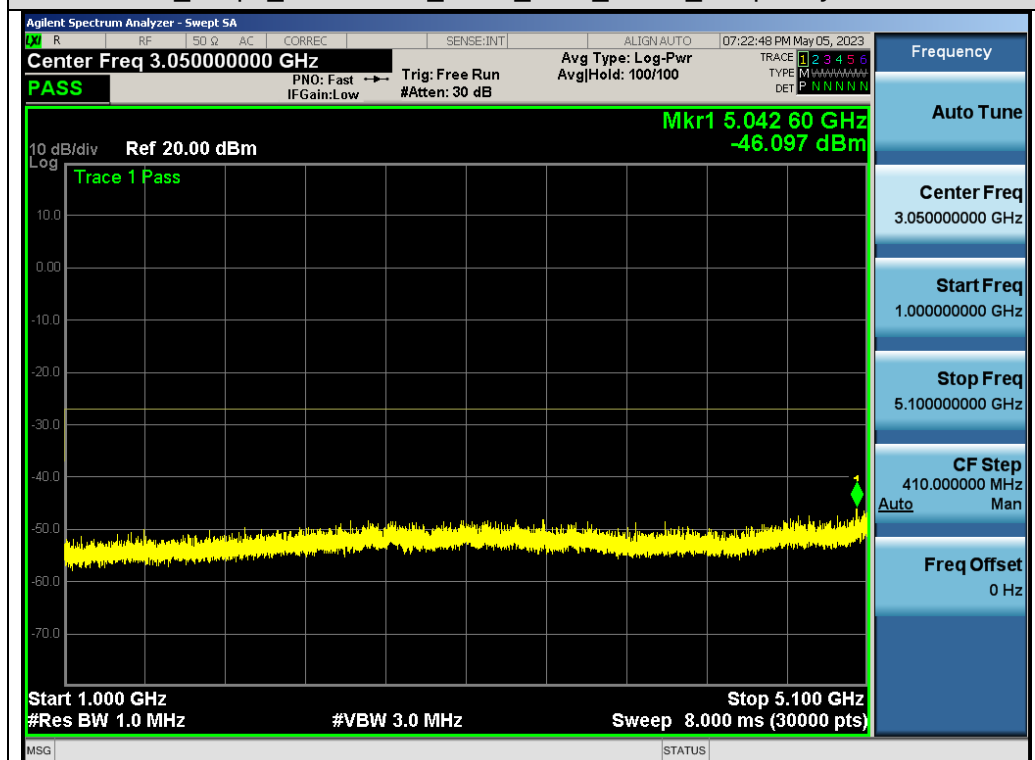


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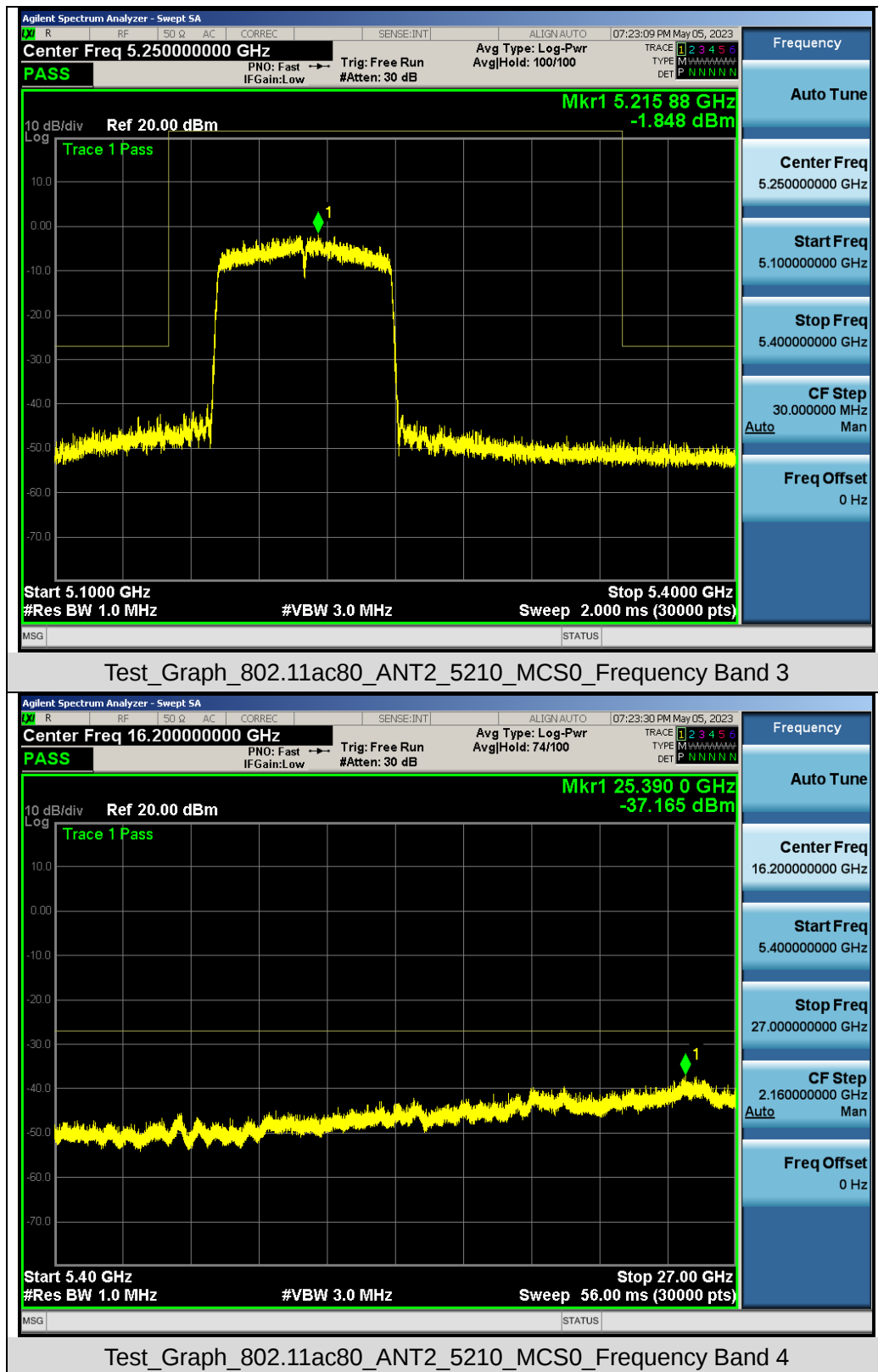
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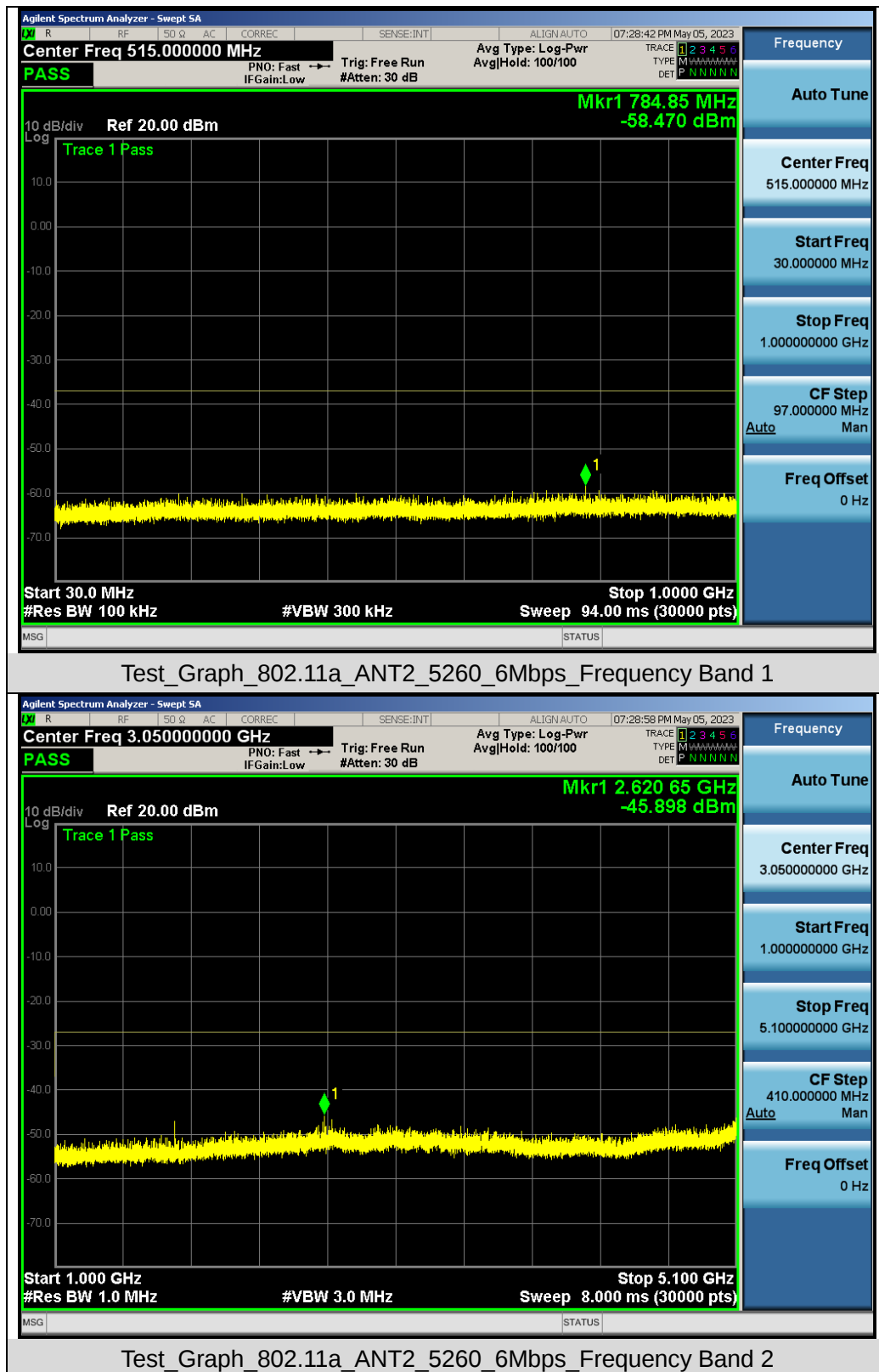
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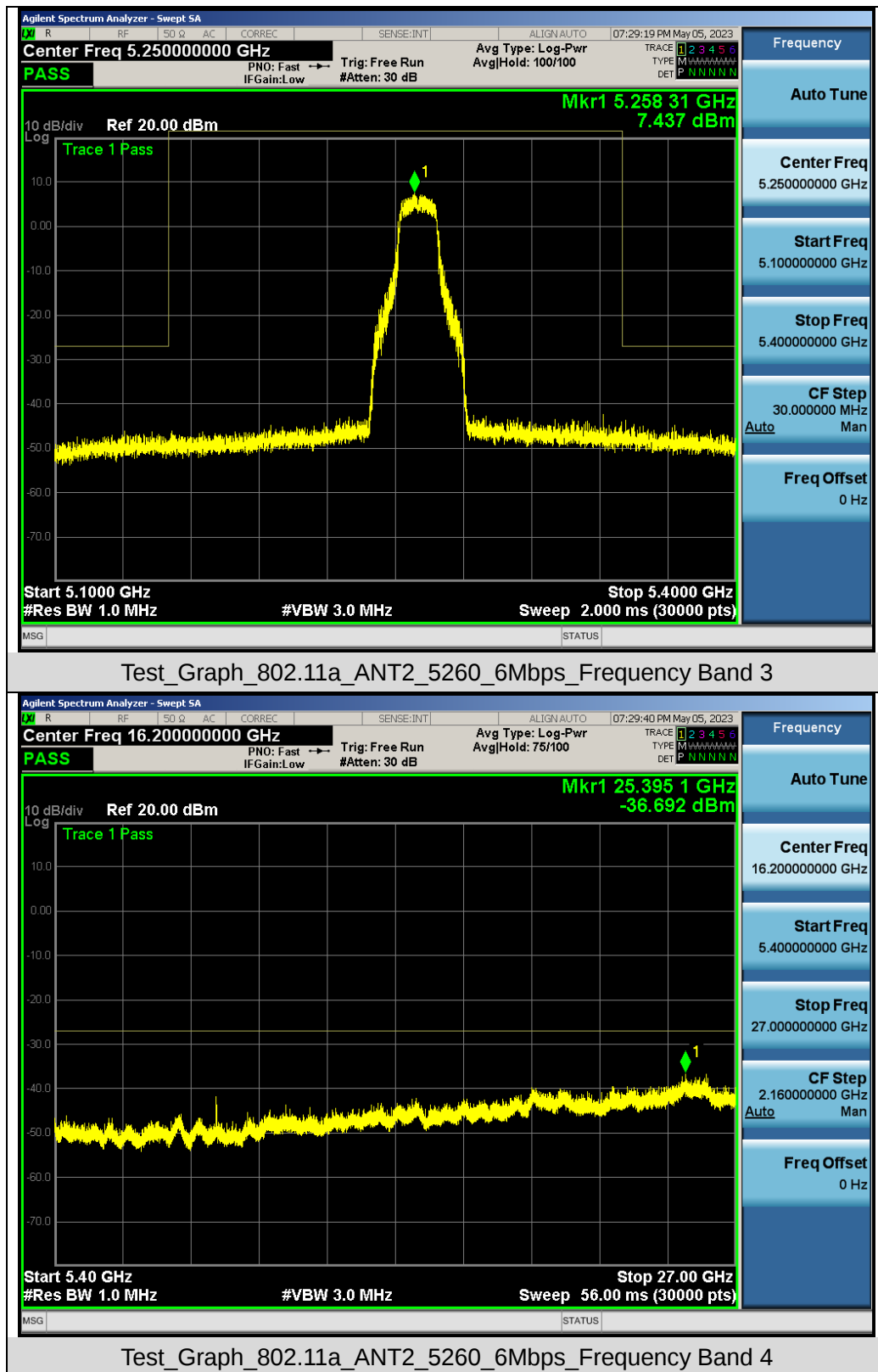


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Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band-Ant 2

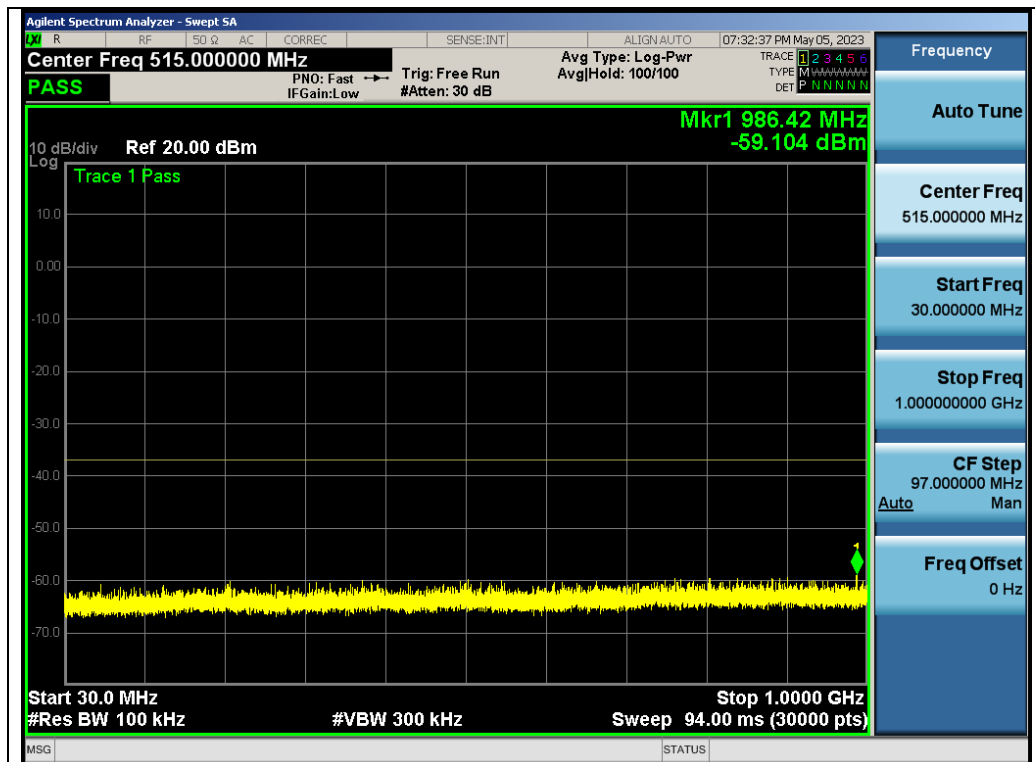


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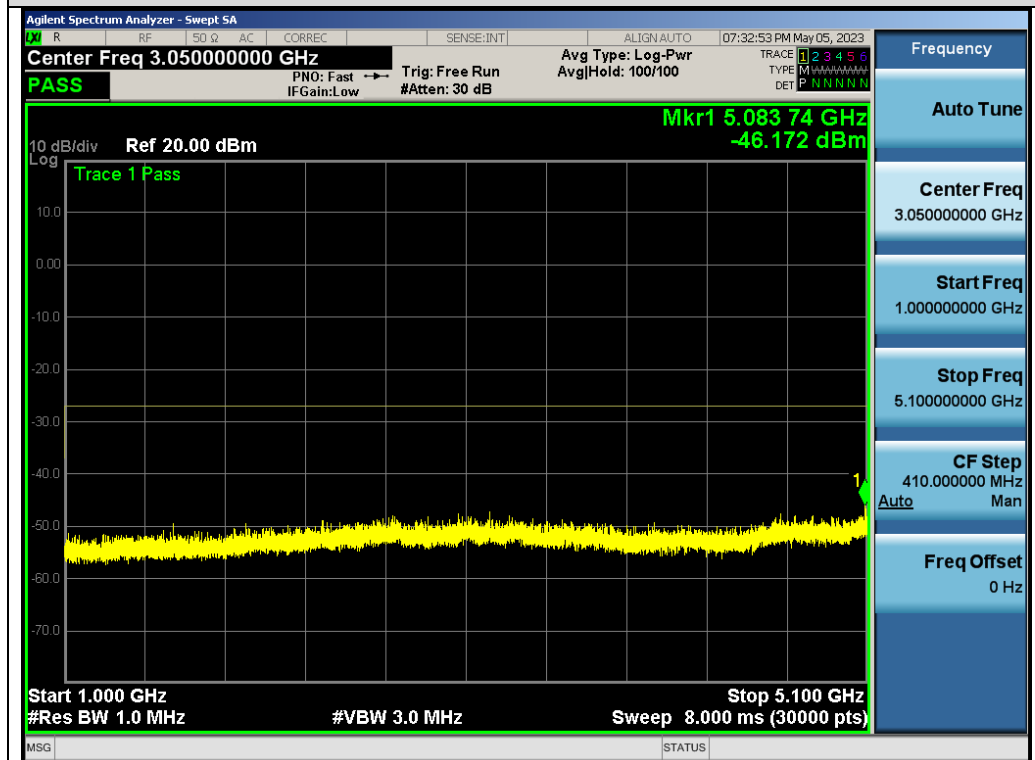


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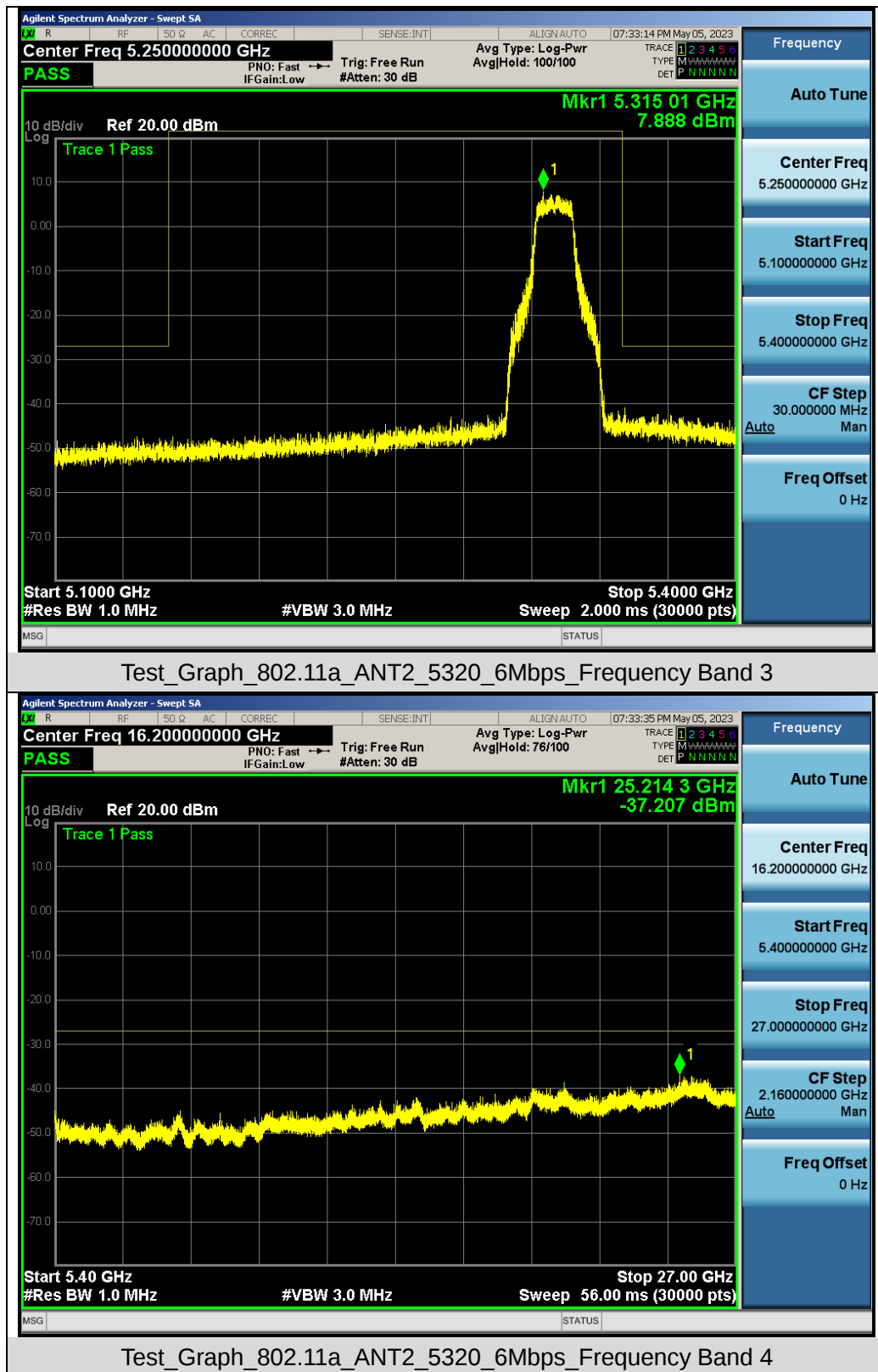


Test_Graph_802.11a_ANT2_5320_6Mbps_Frequency Band 1

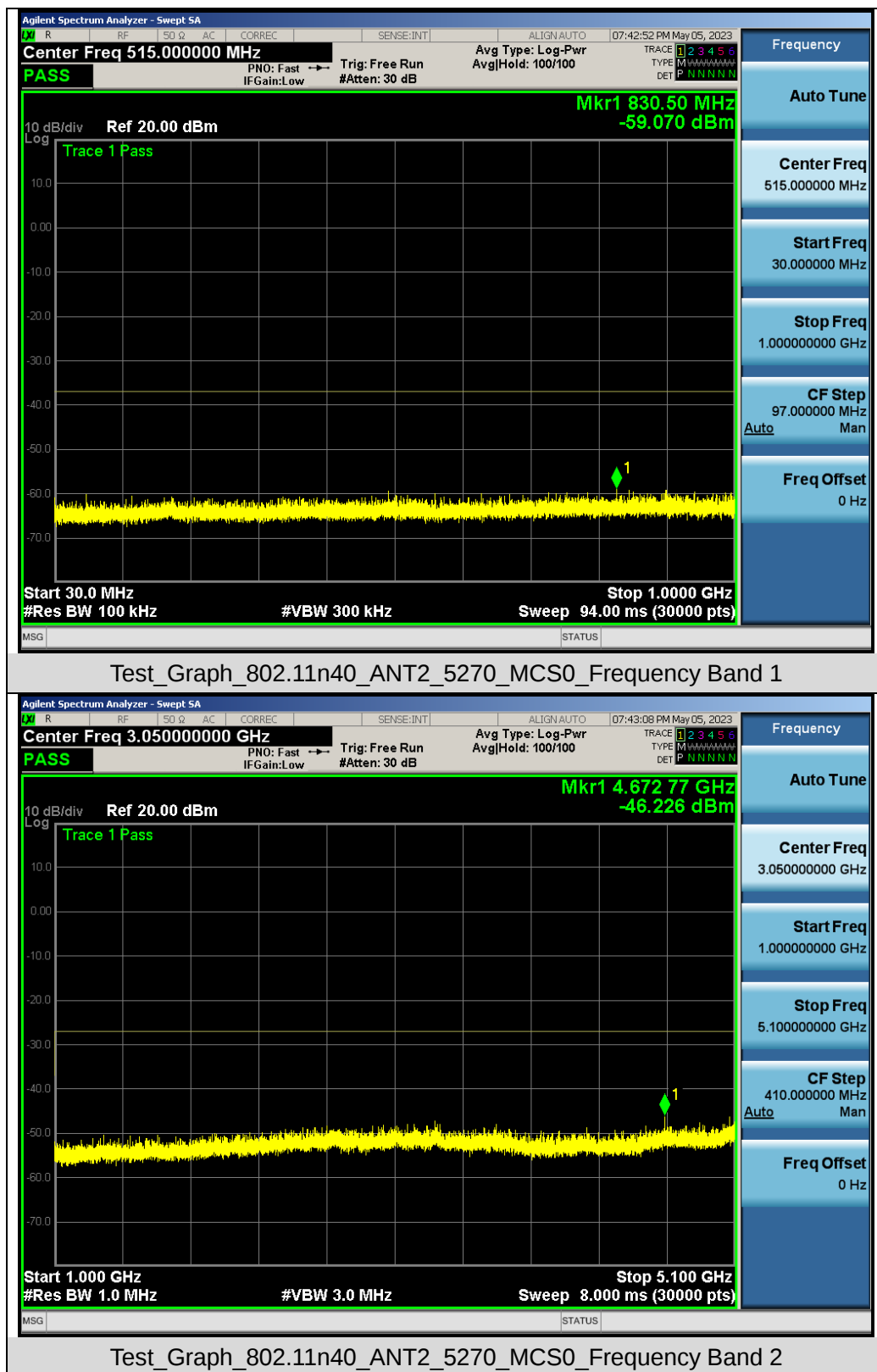


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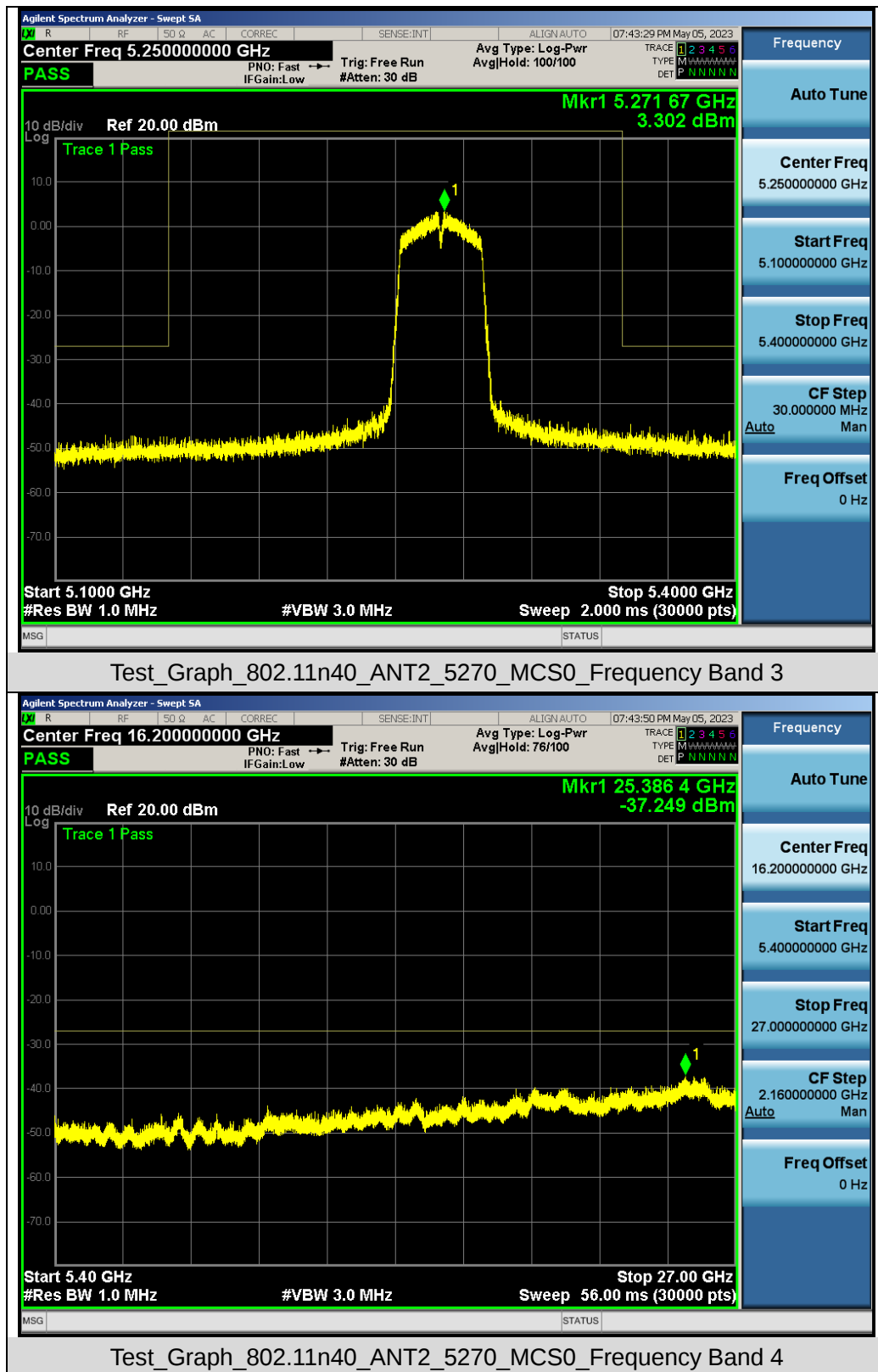
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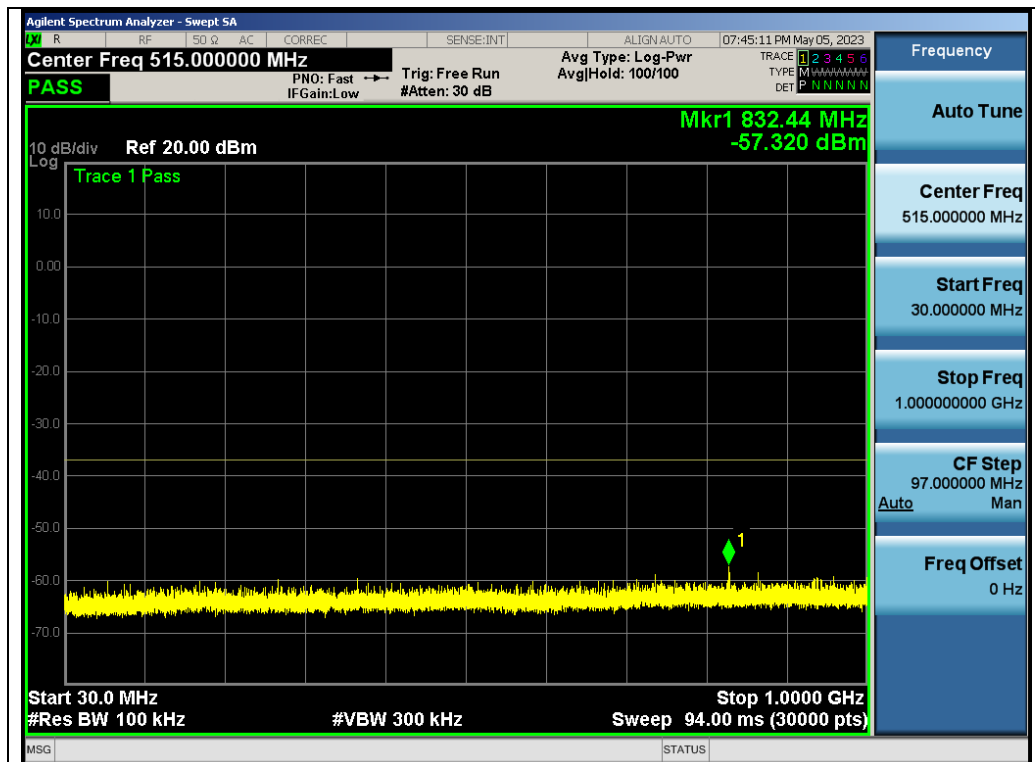


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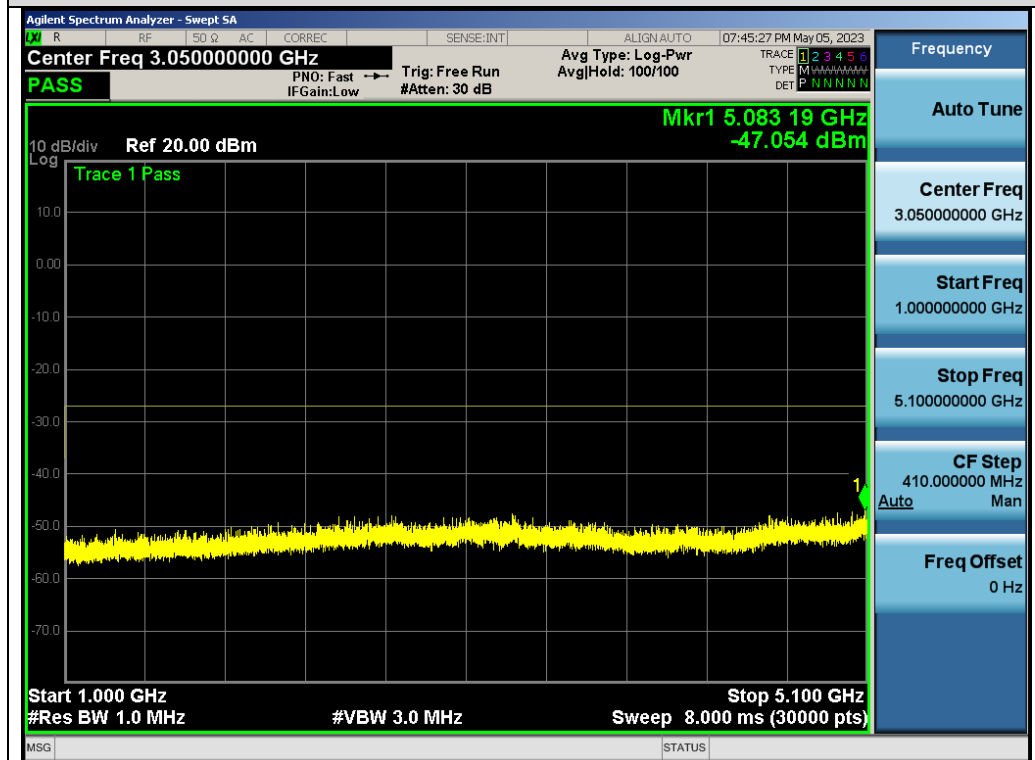


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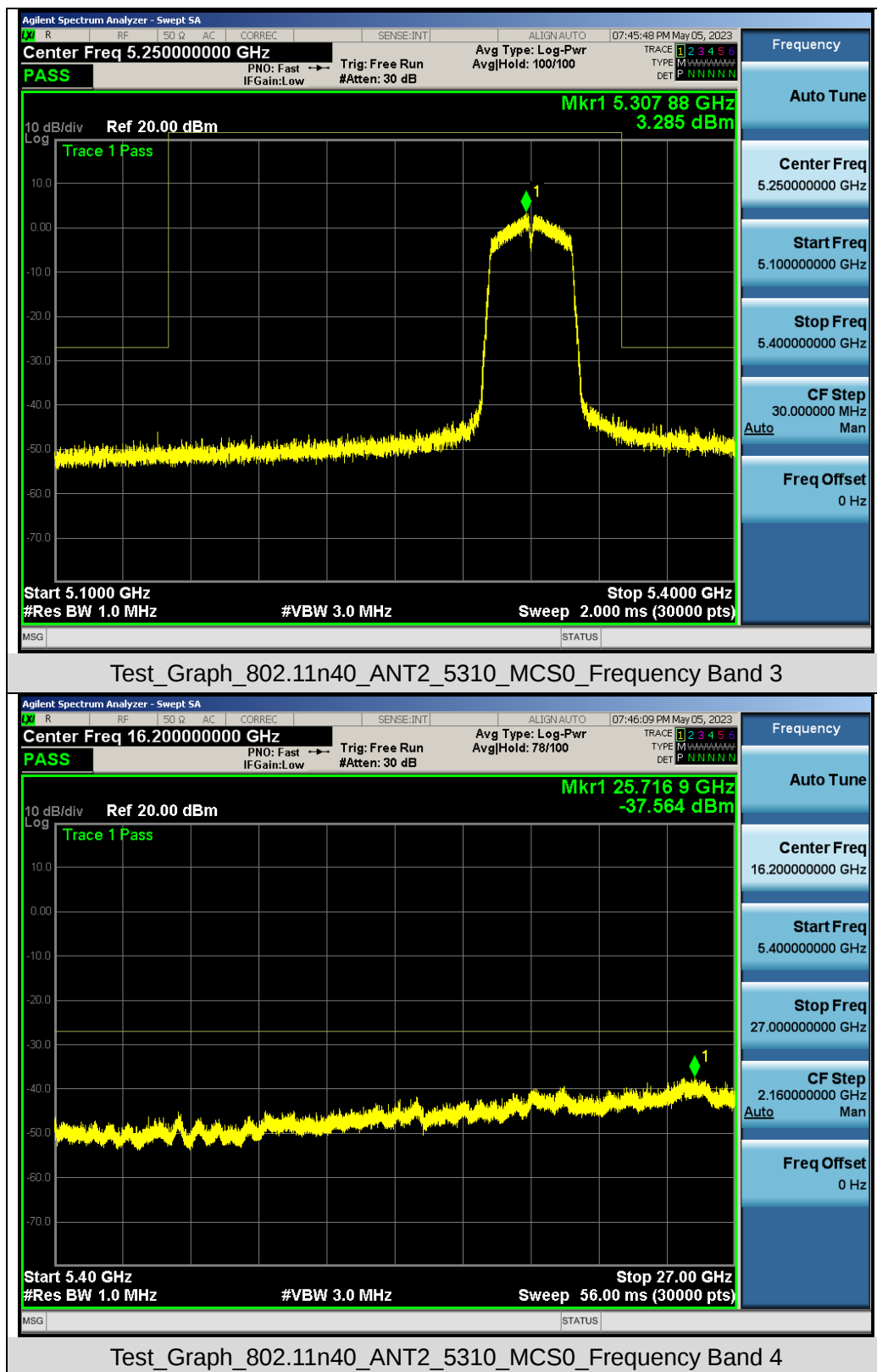


Test_Graph_802.11n40_ANT2_5310_MCS0_Frequency Band 1



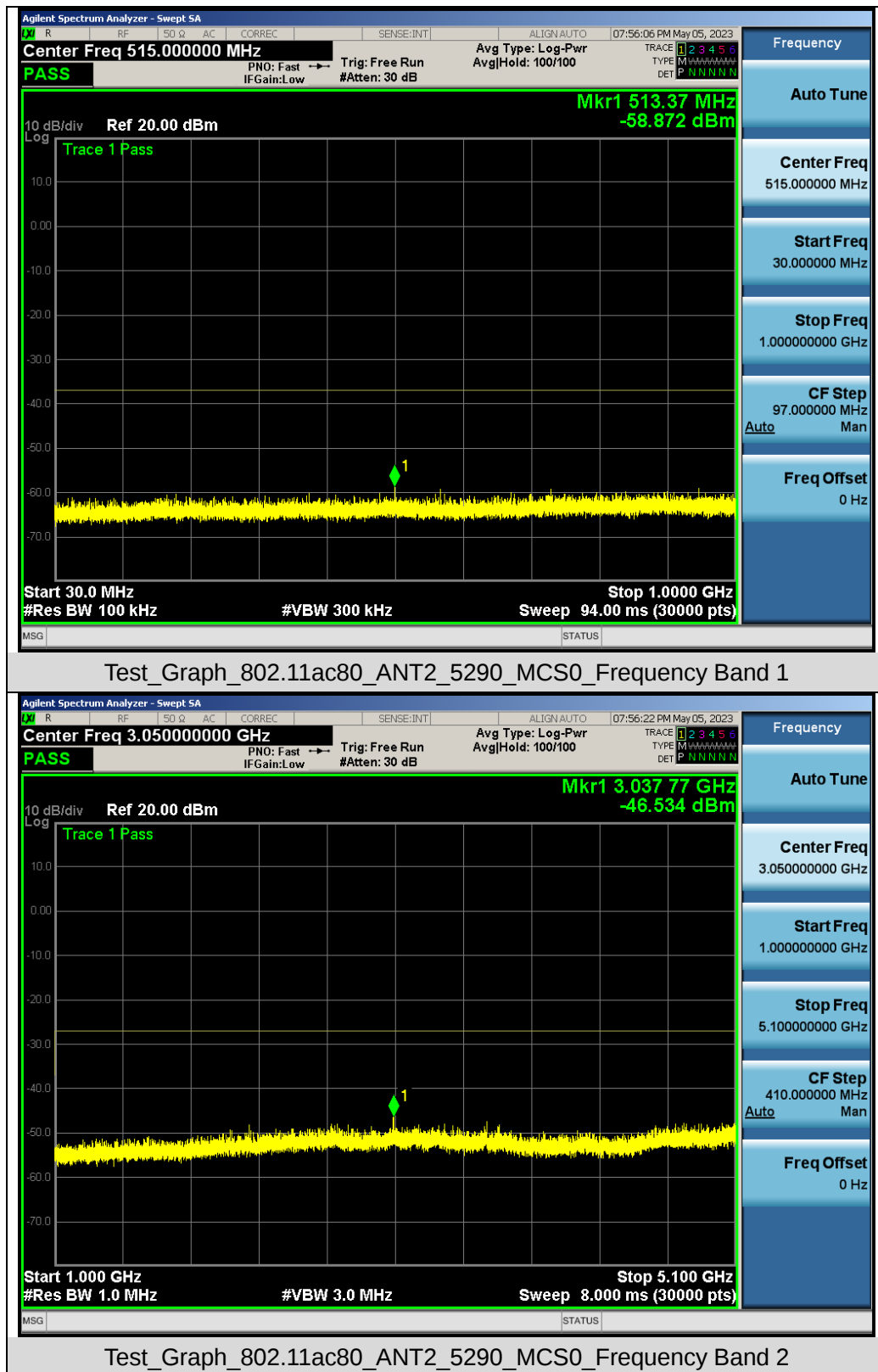
Test_Graph_802.11n40_ANT2_5310_MCS0_Frequency Band 2

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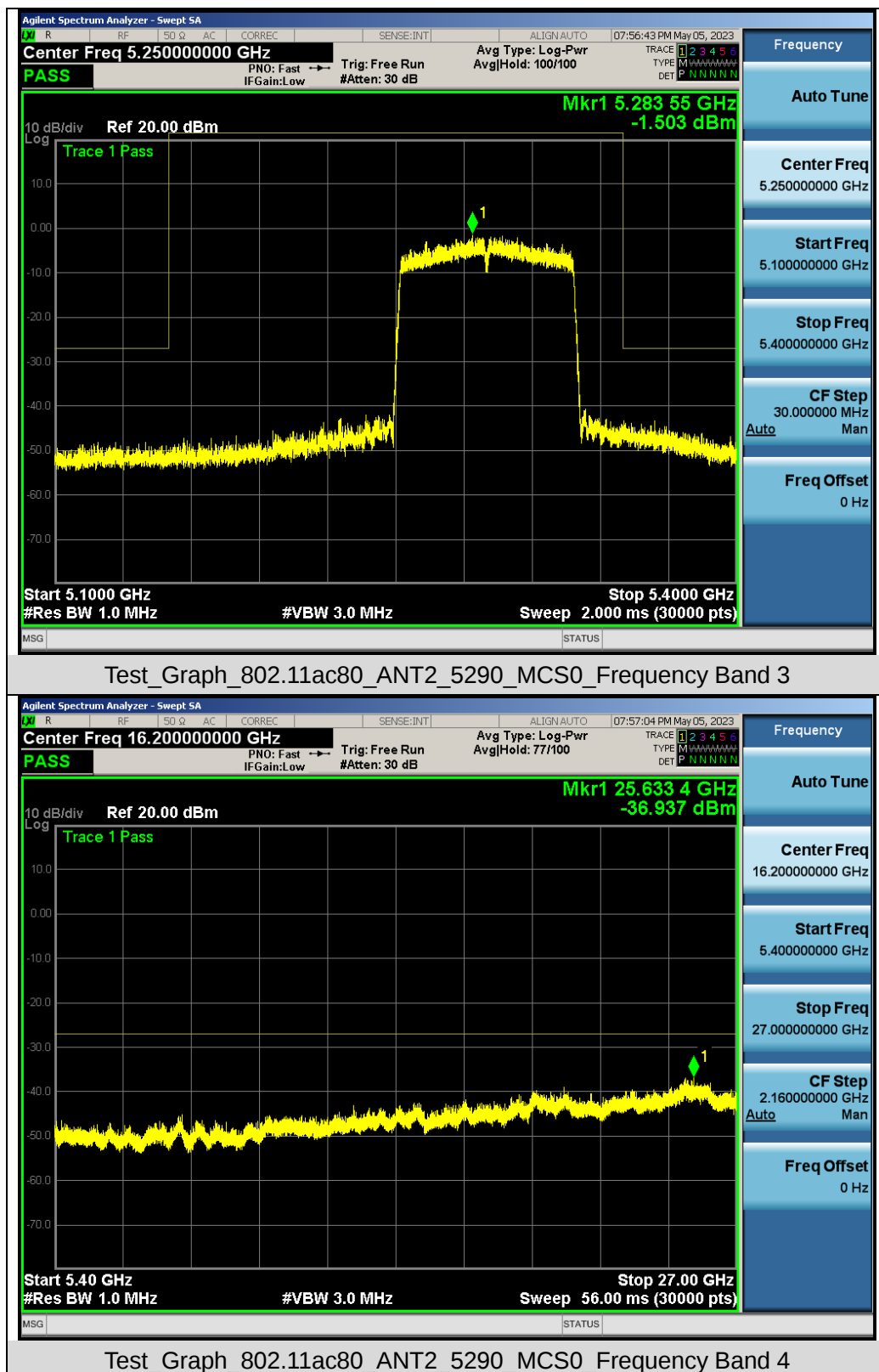
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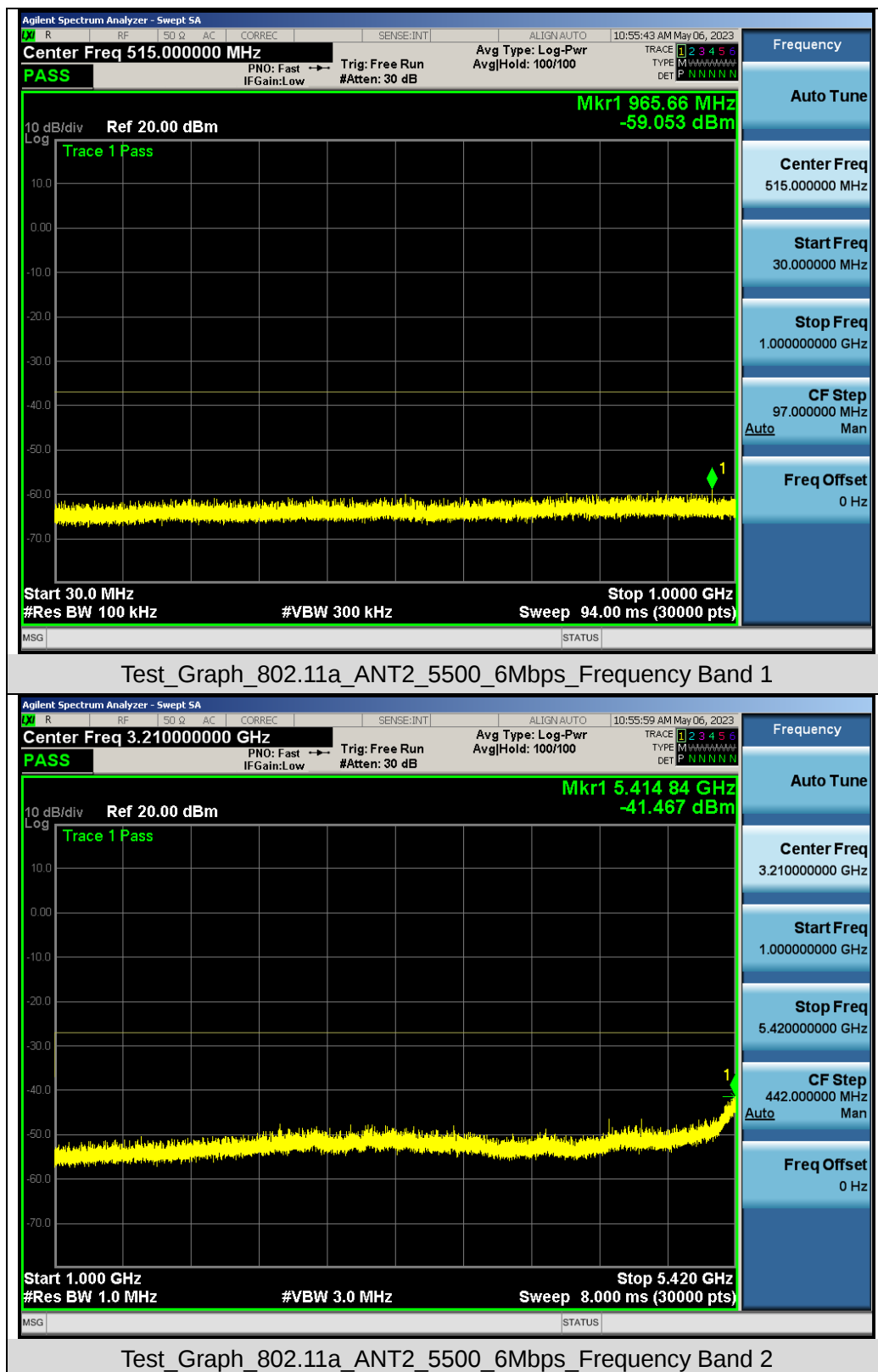
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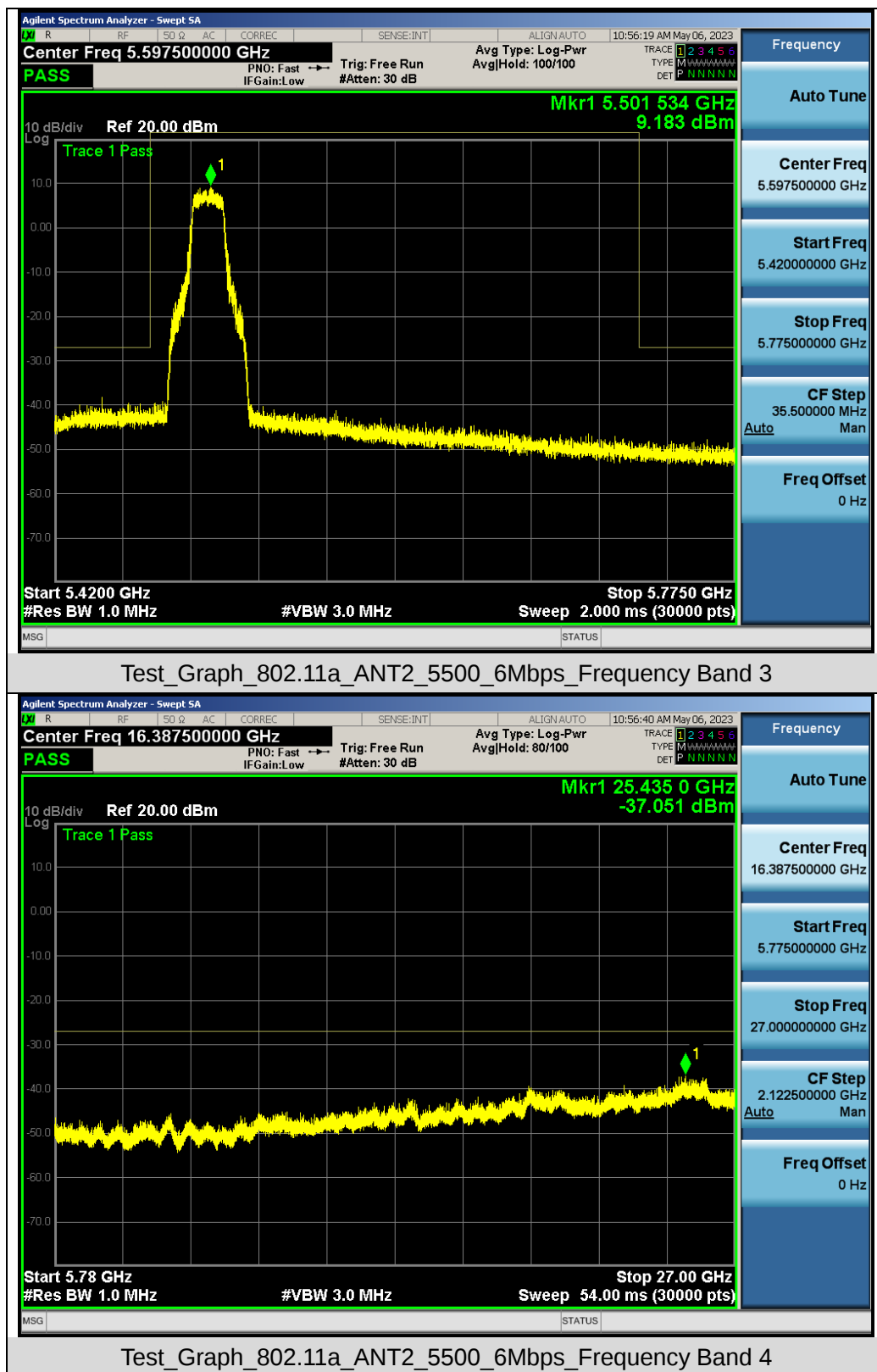
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Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.470-5.725 GHz band-Ant 2

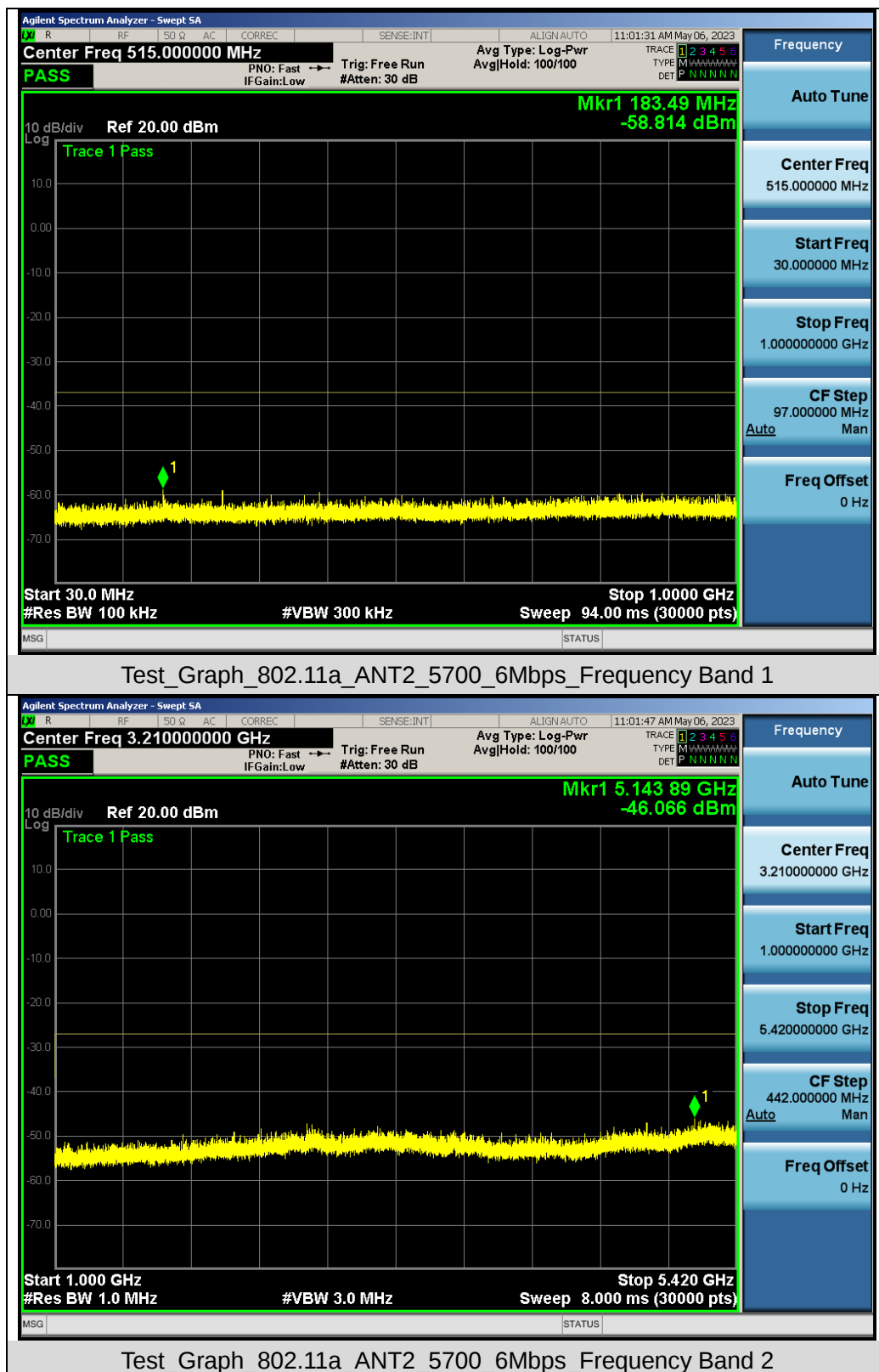


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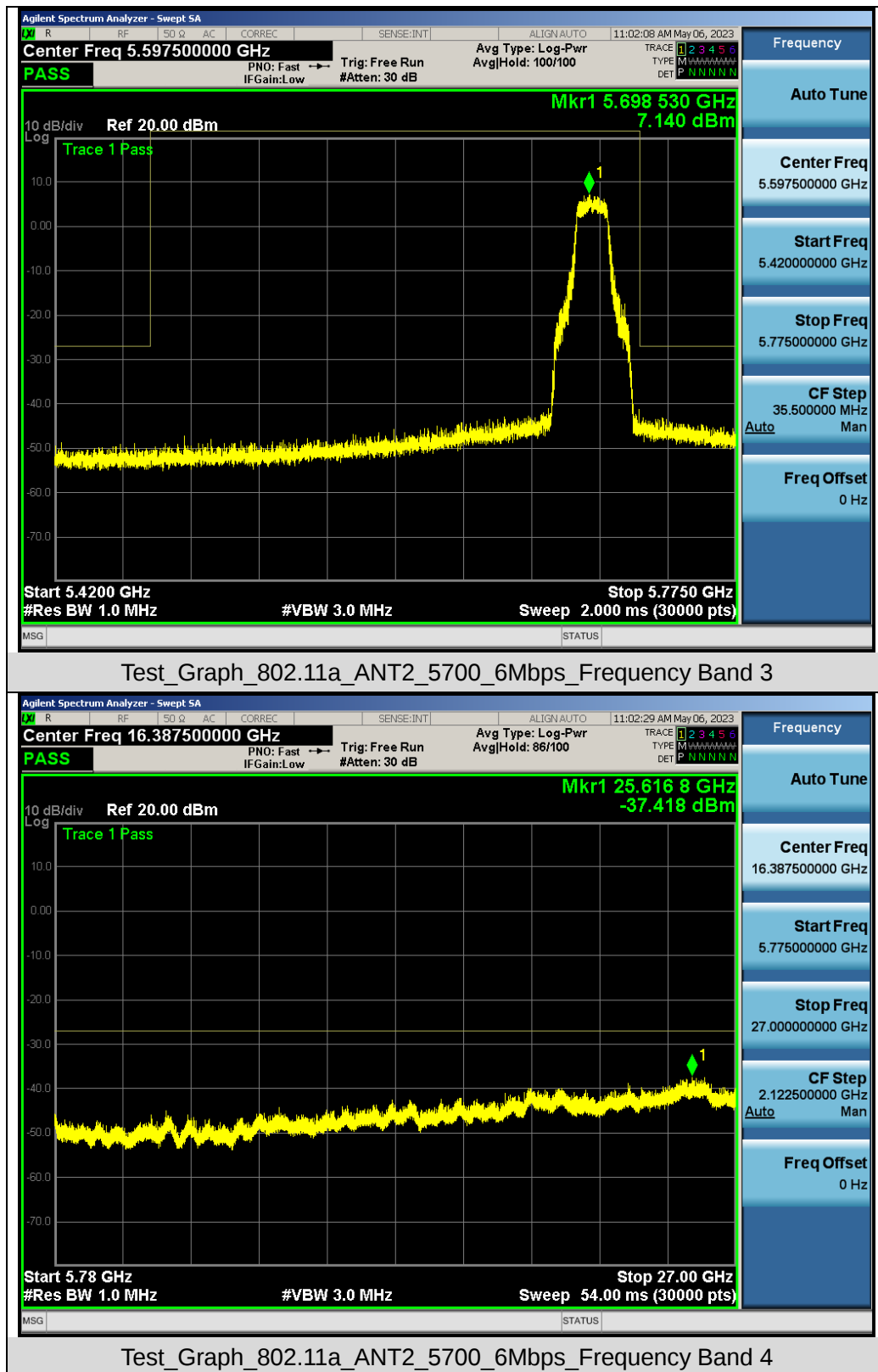
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