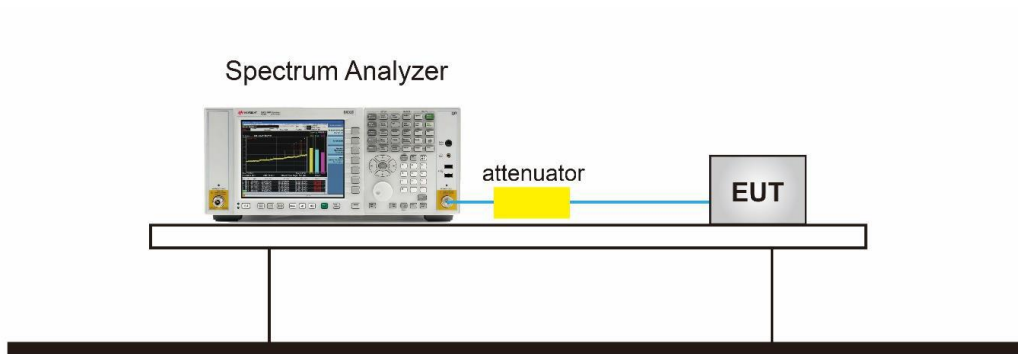


### 10.3 Measurement Setup (Block Diagram of Configuration)

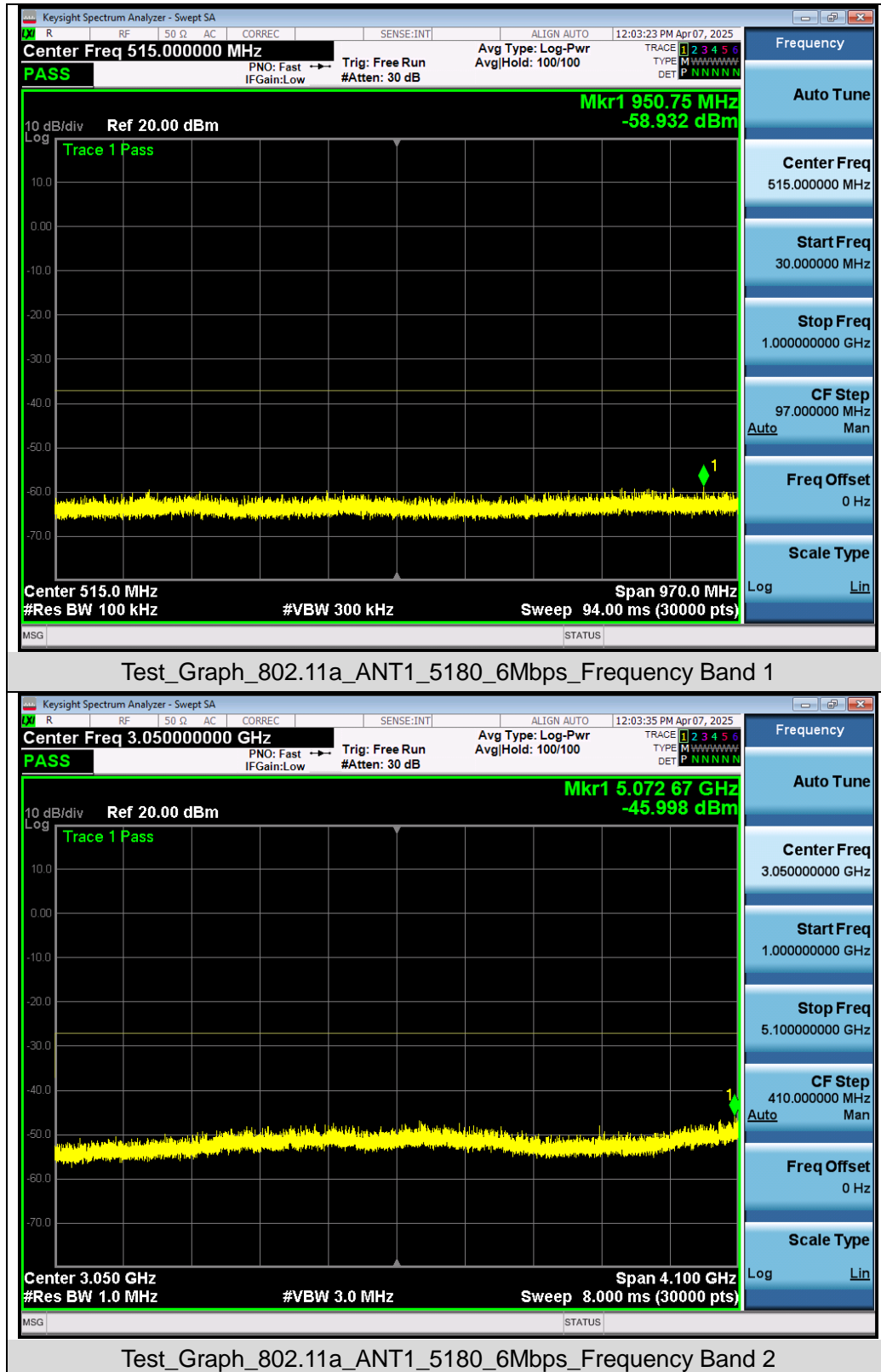


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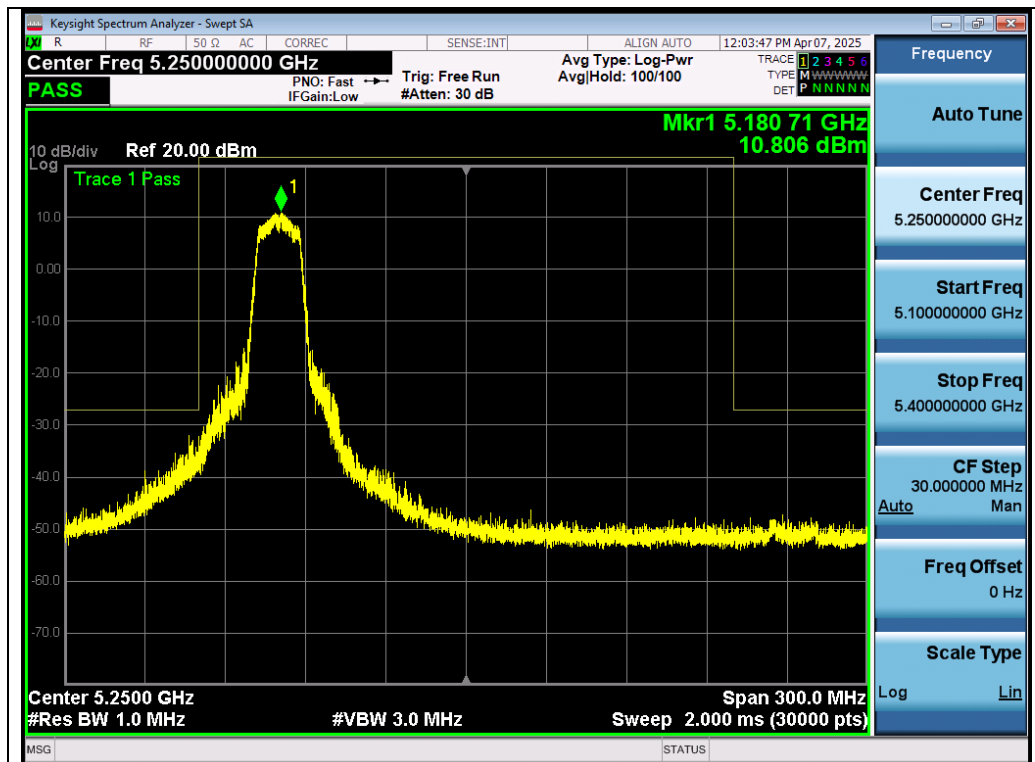
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## 10.4 Measurement Results

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



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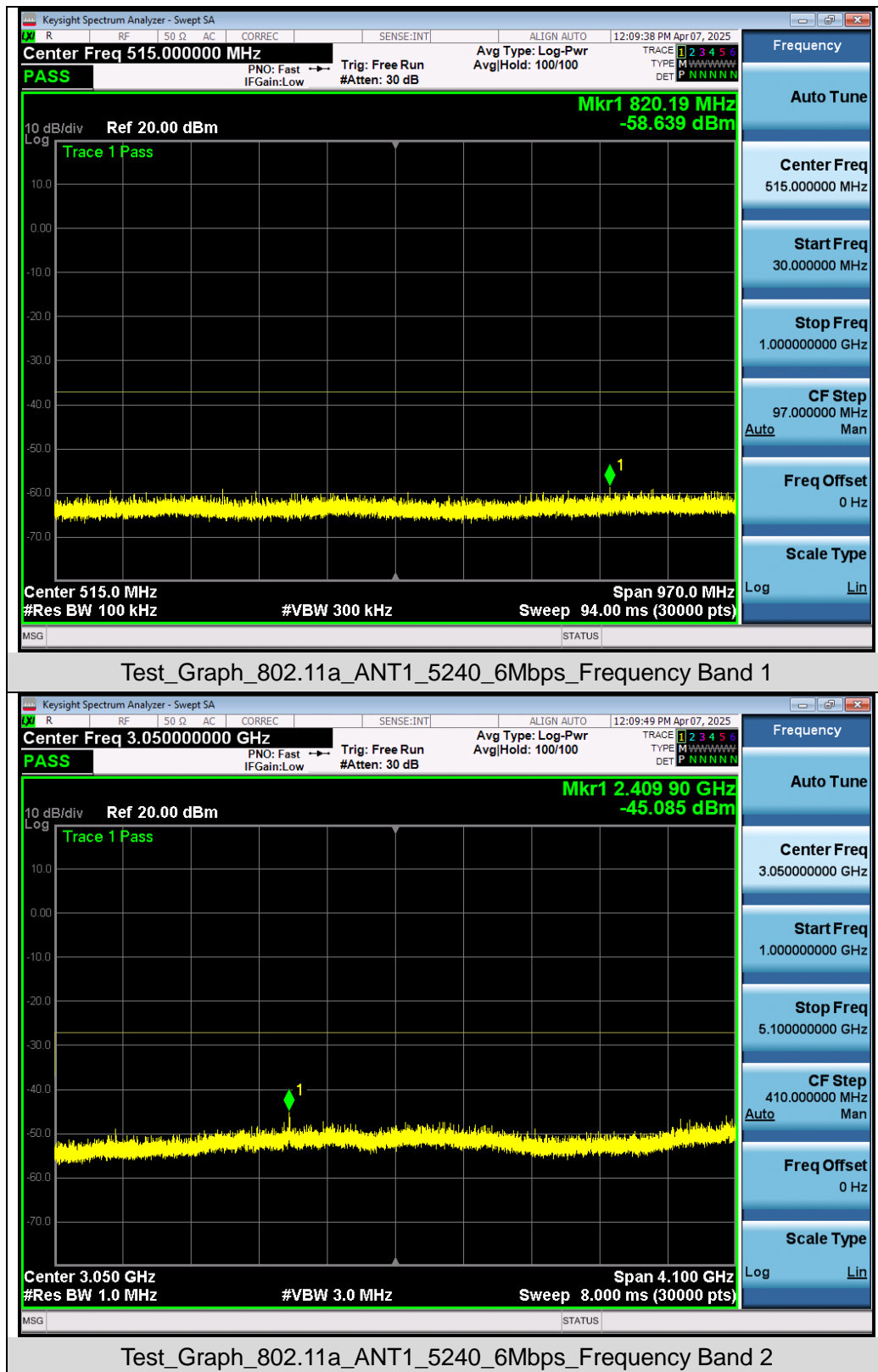
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 3



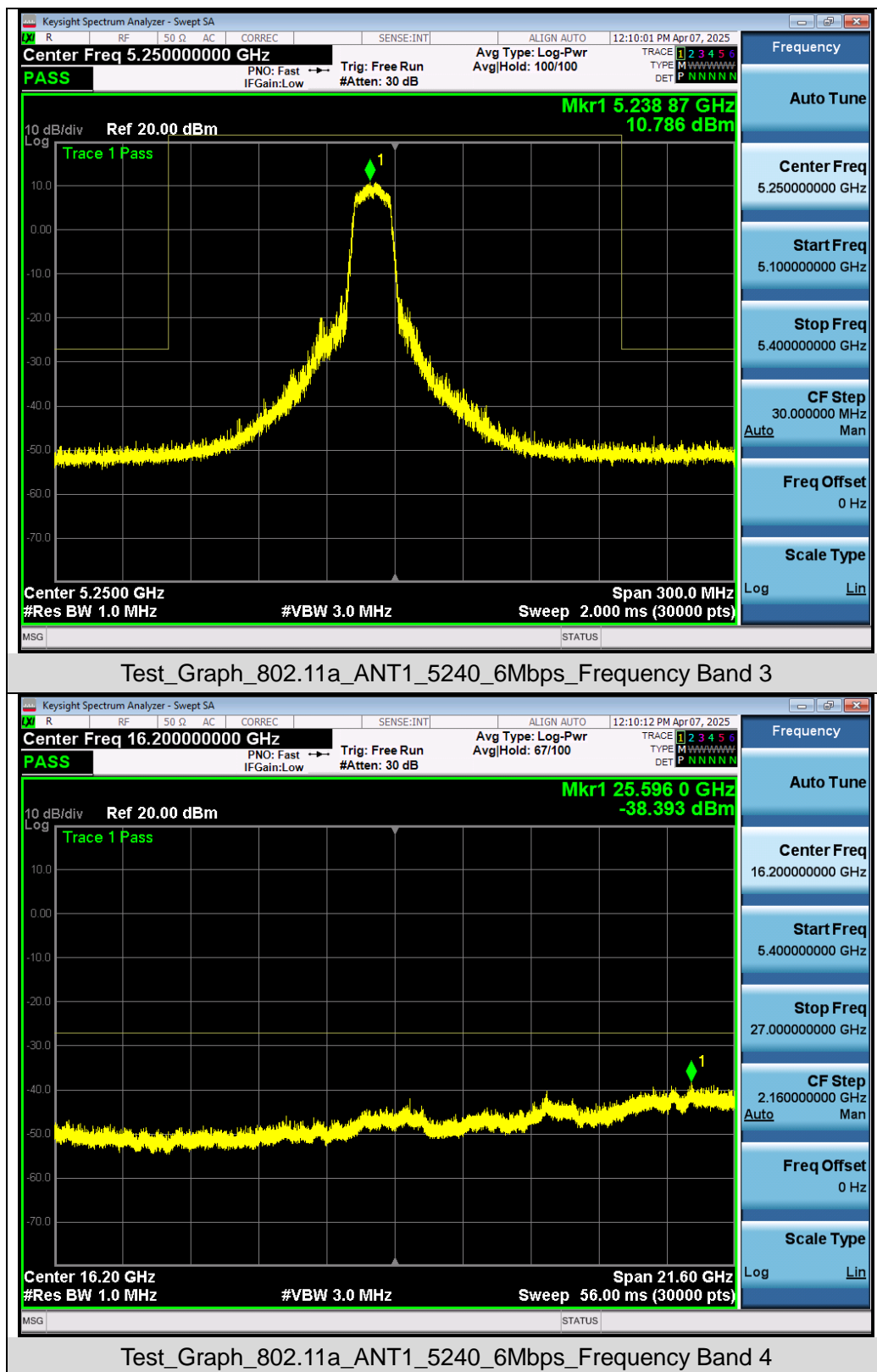
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 4

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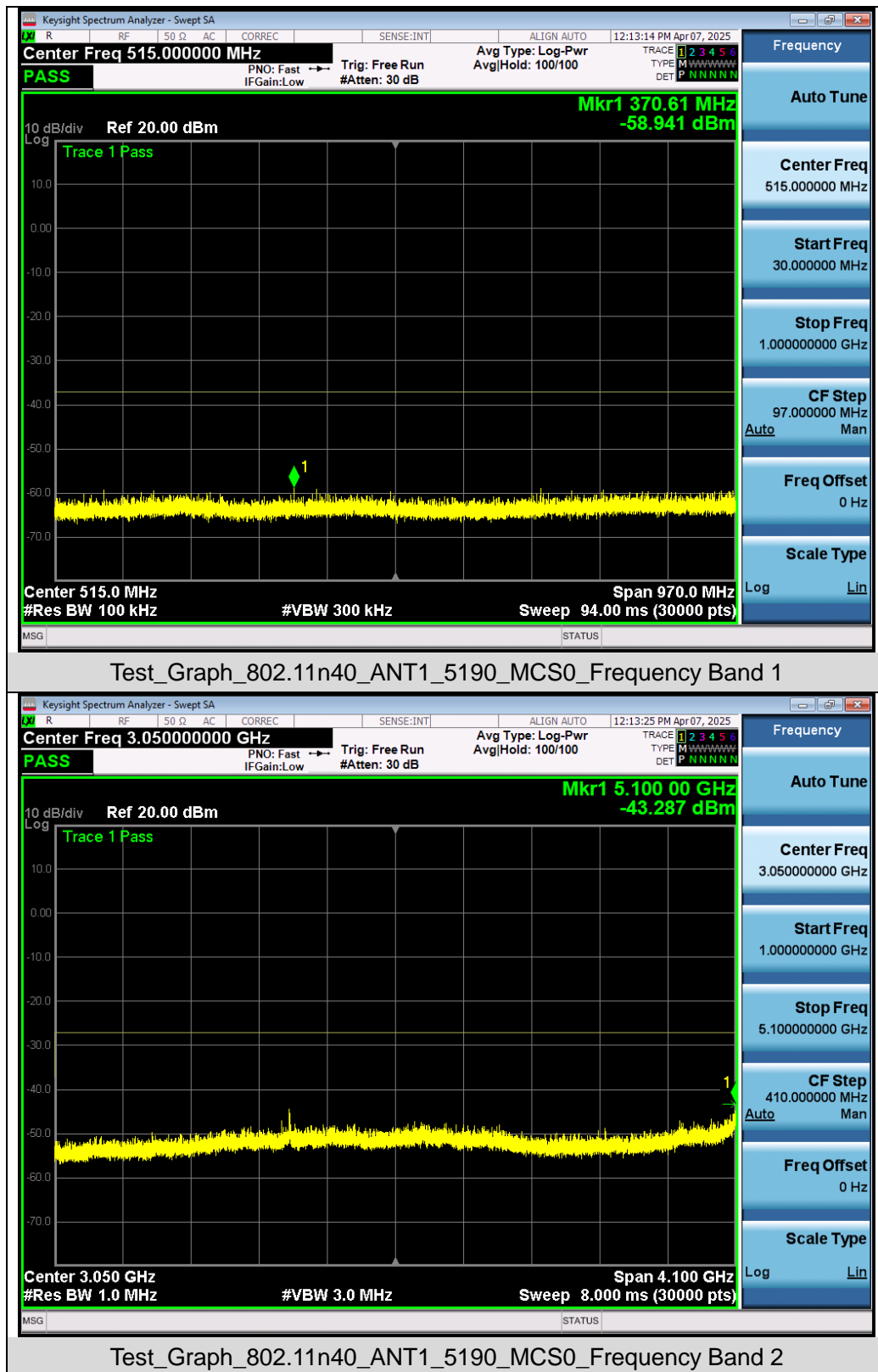


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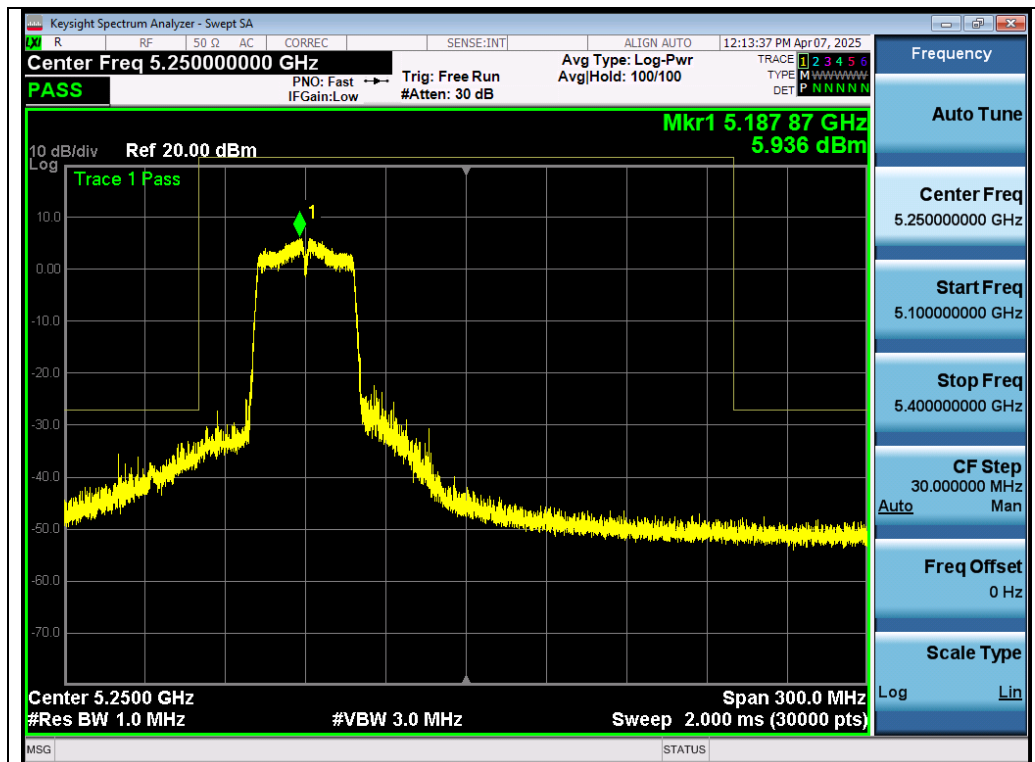
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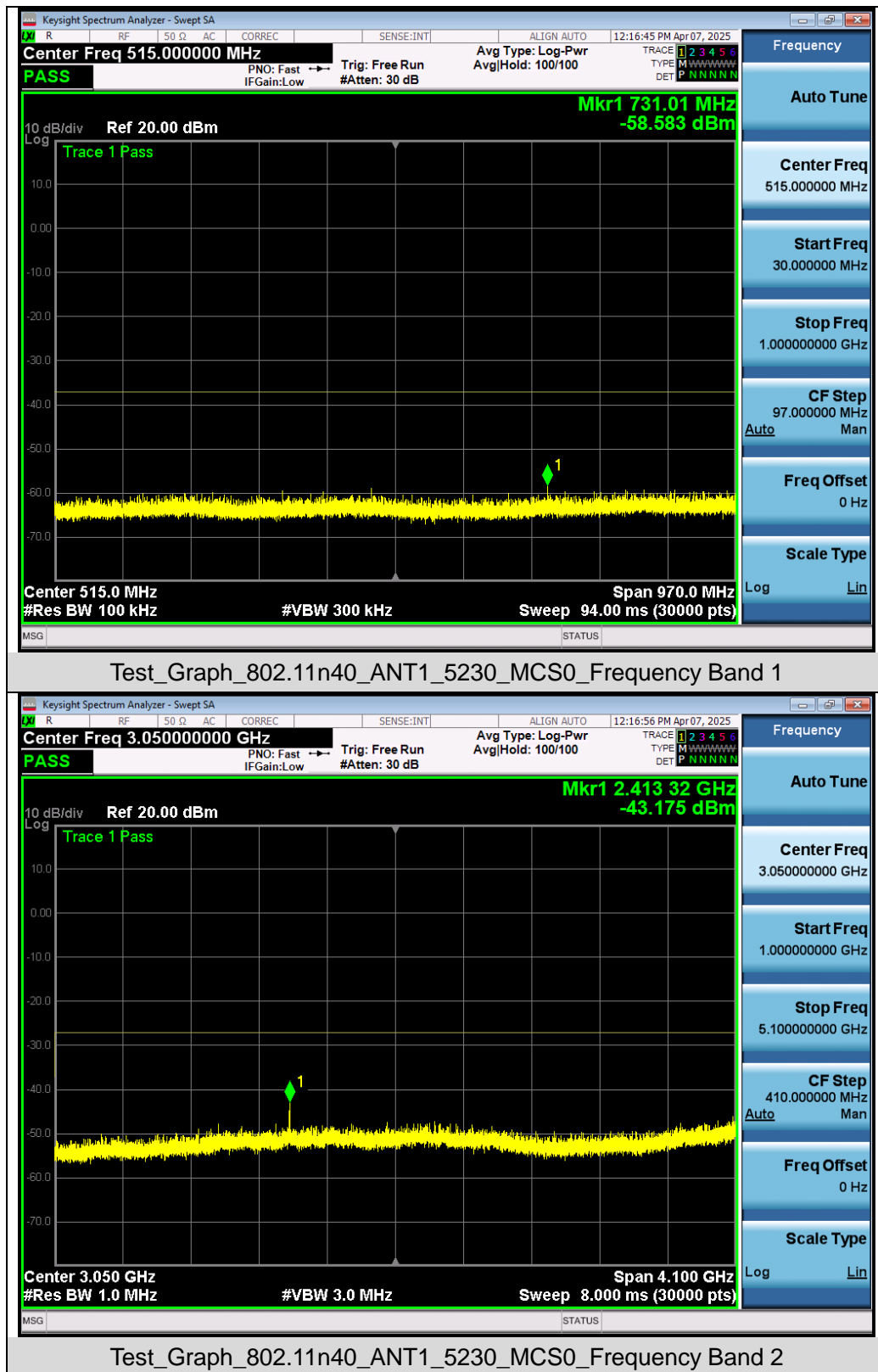


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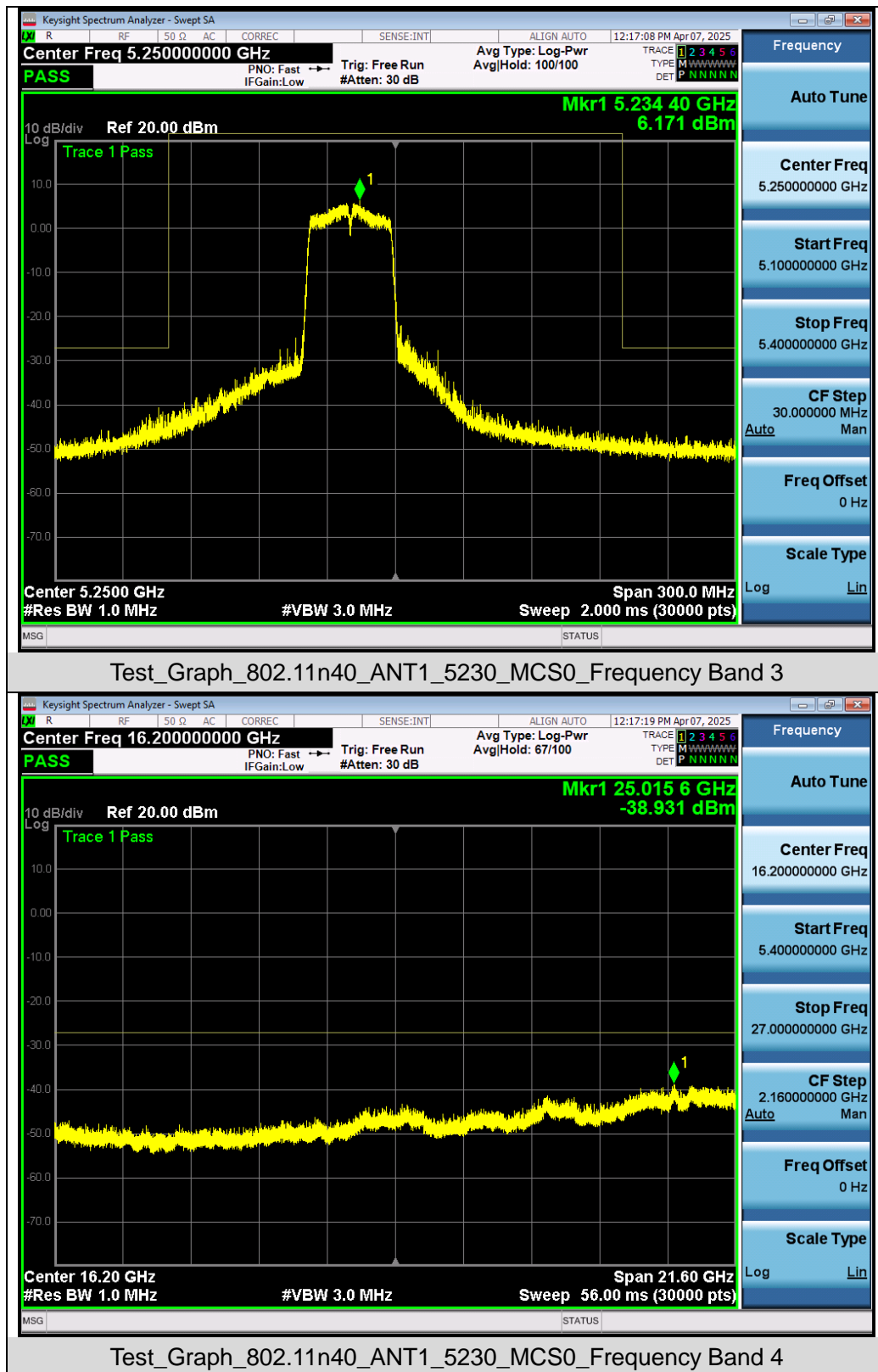


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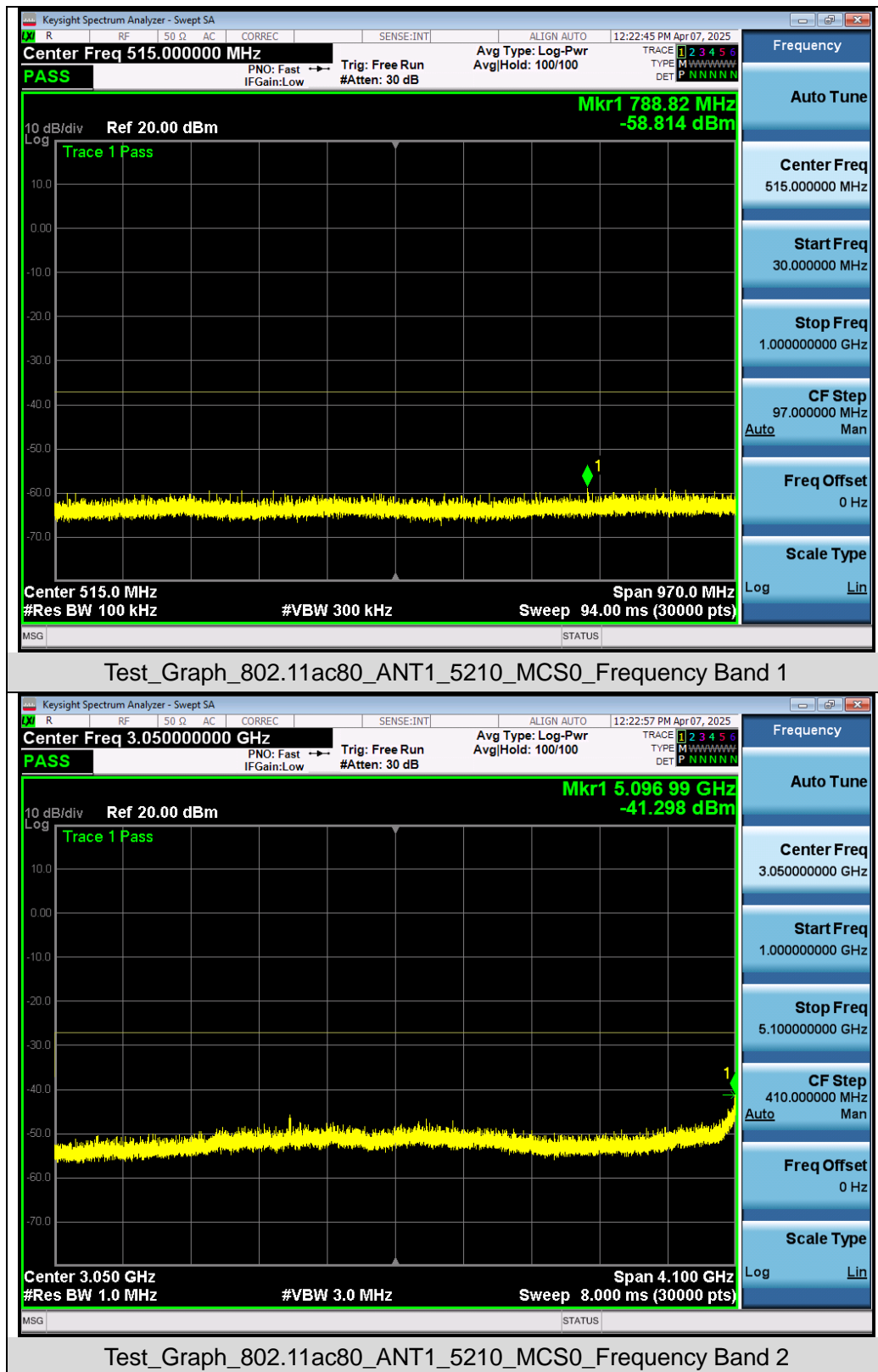
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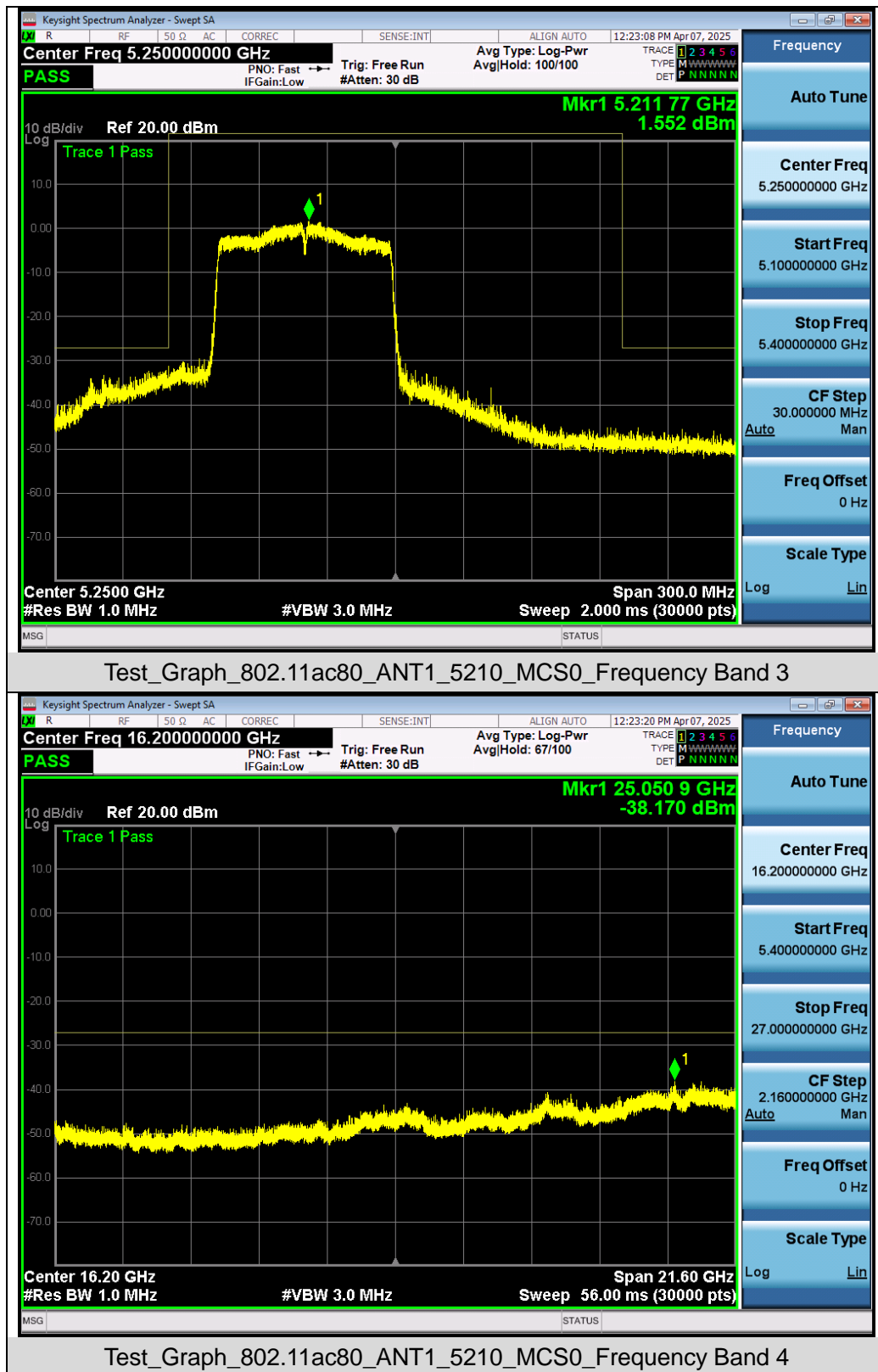
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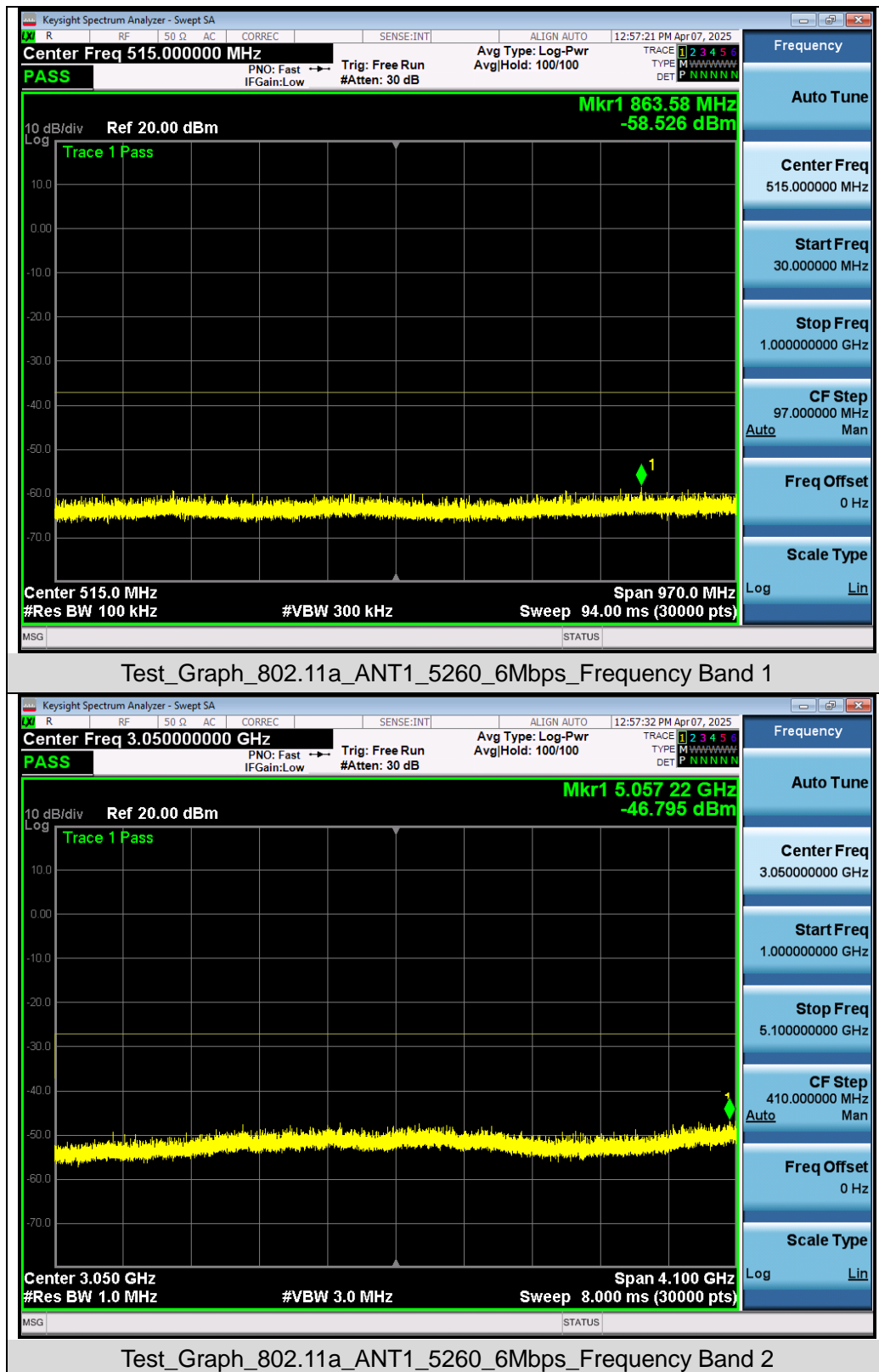
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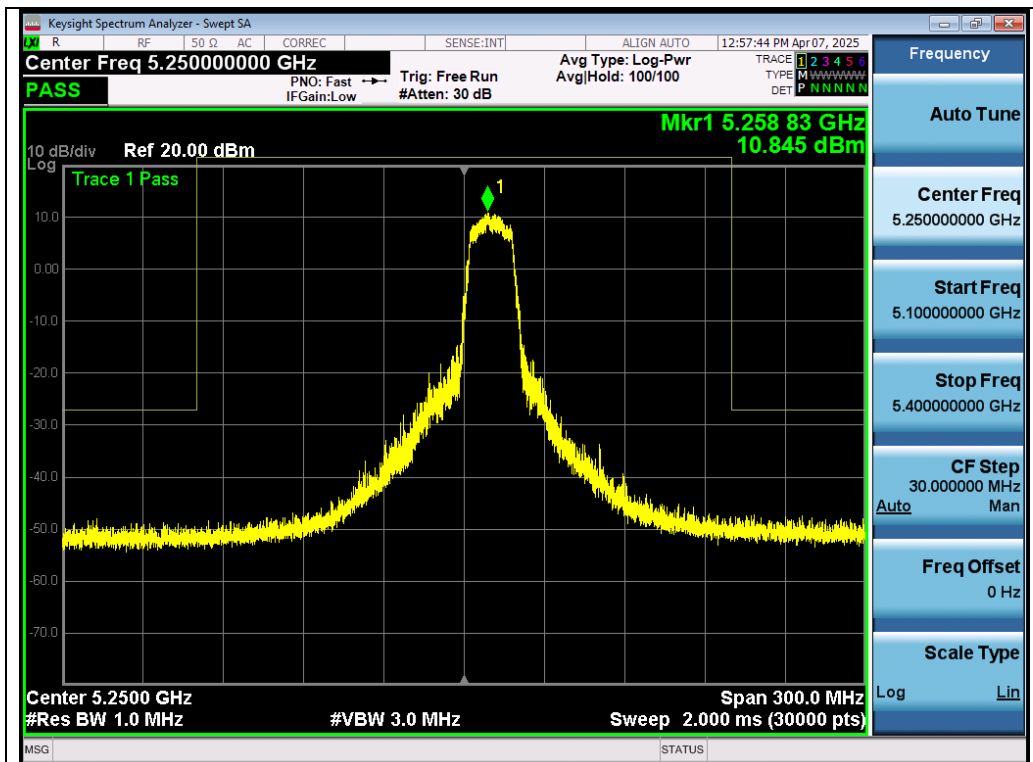
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### Test Graphs of Spurious Emissions outside of the 5.25-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



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Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_Frequency Band 3

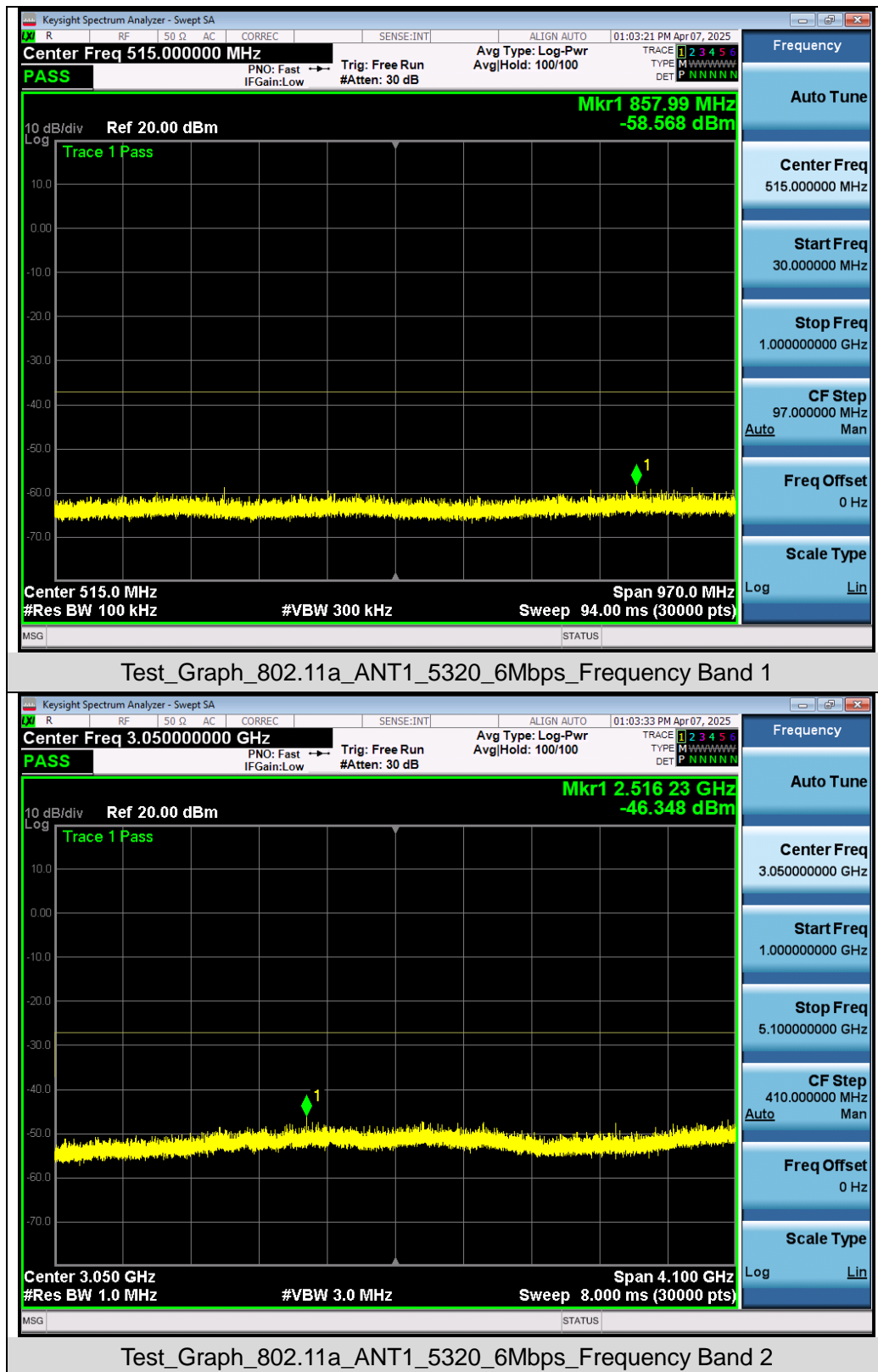


Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_Frequency Band 4

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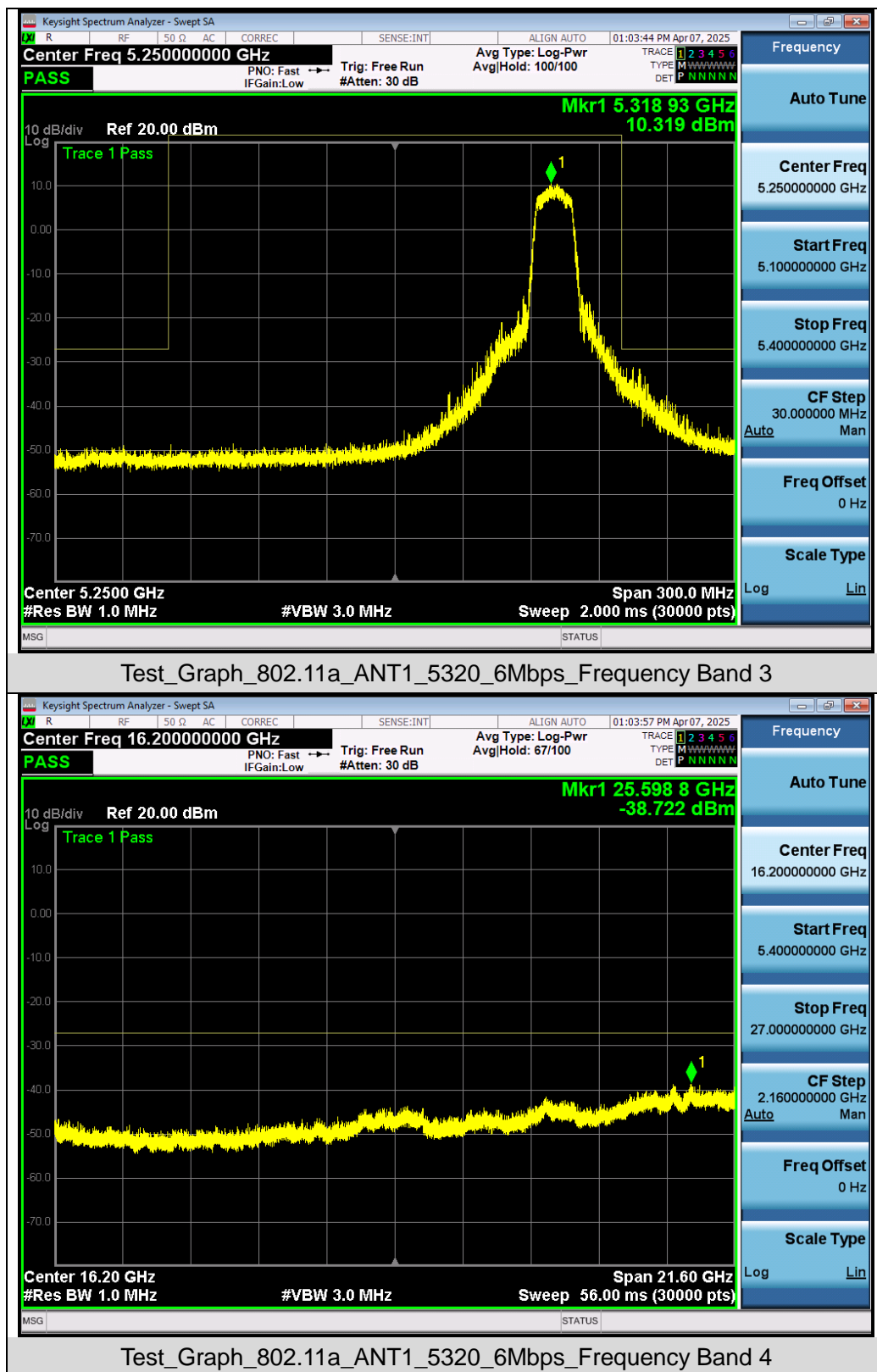




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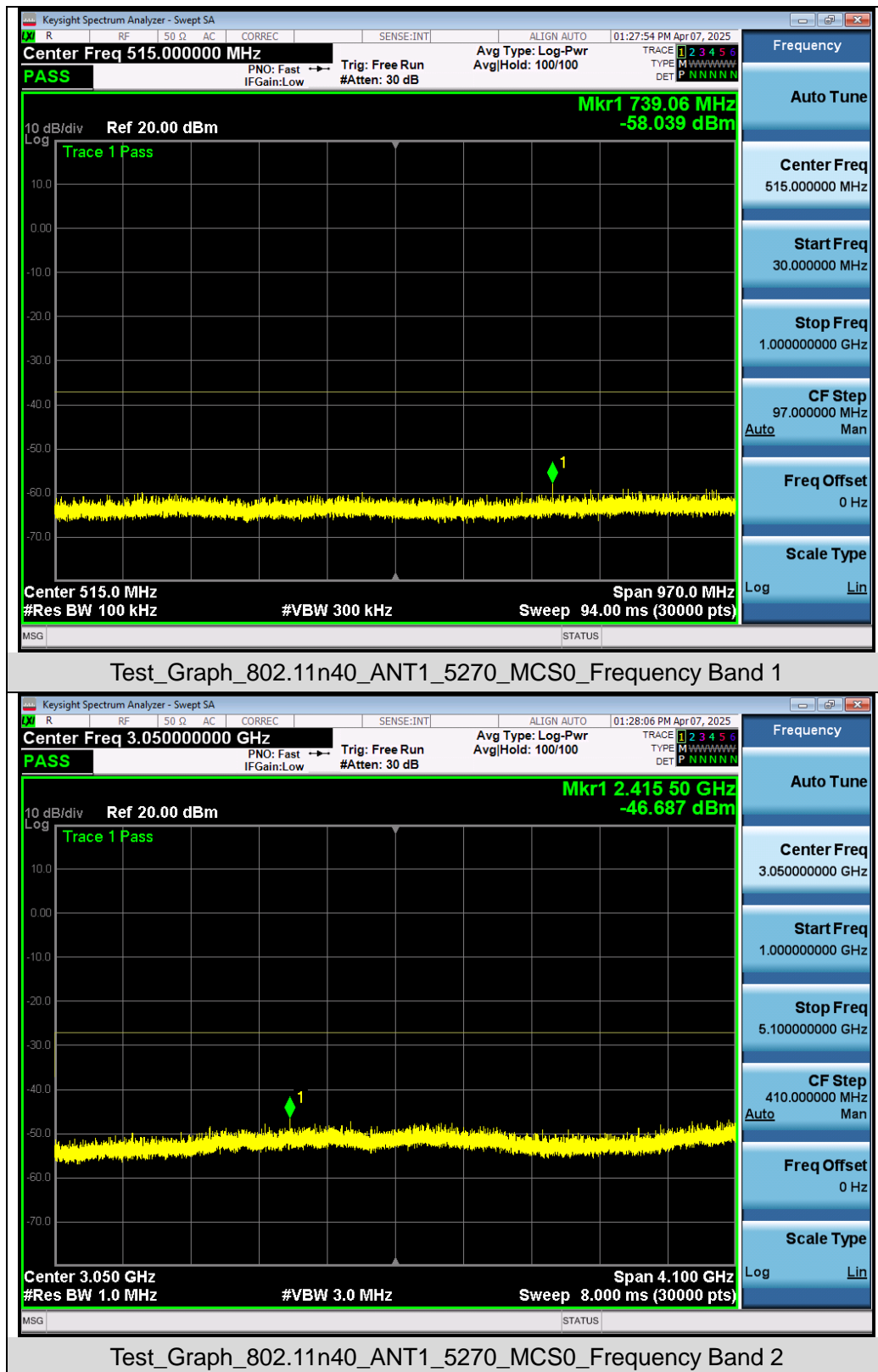
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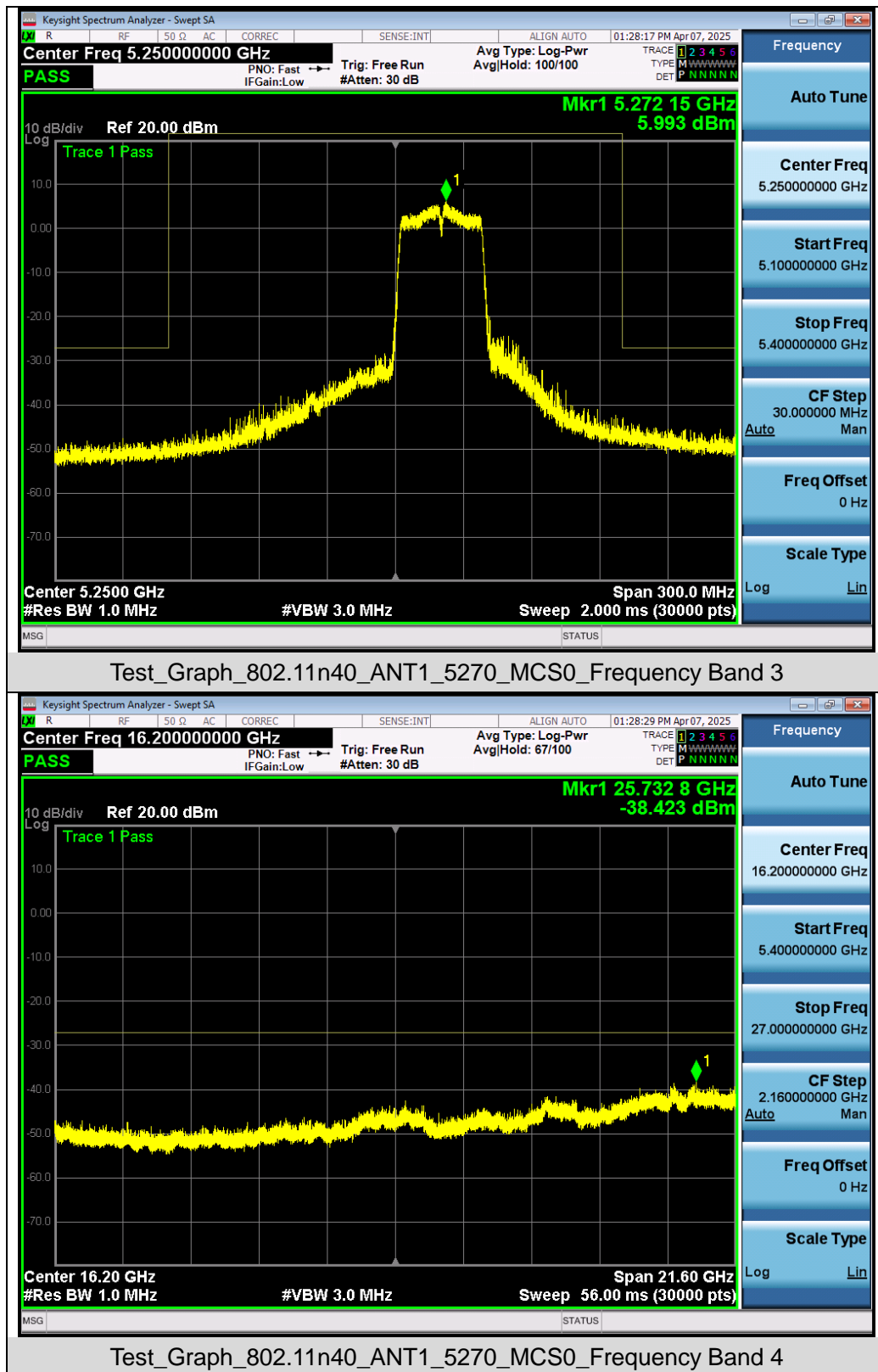
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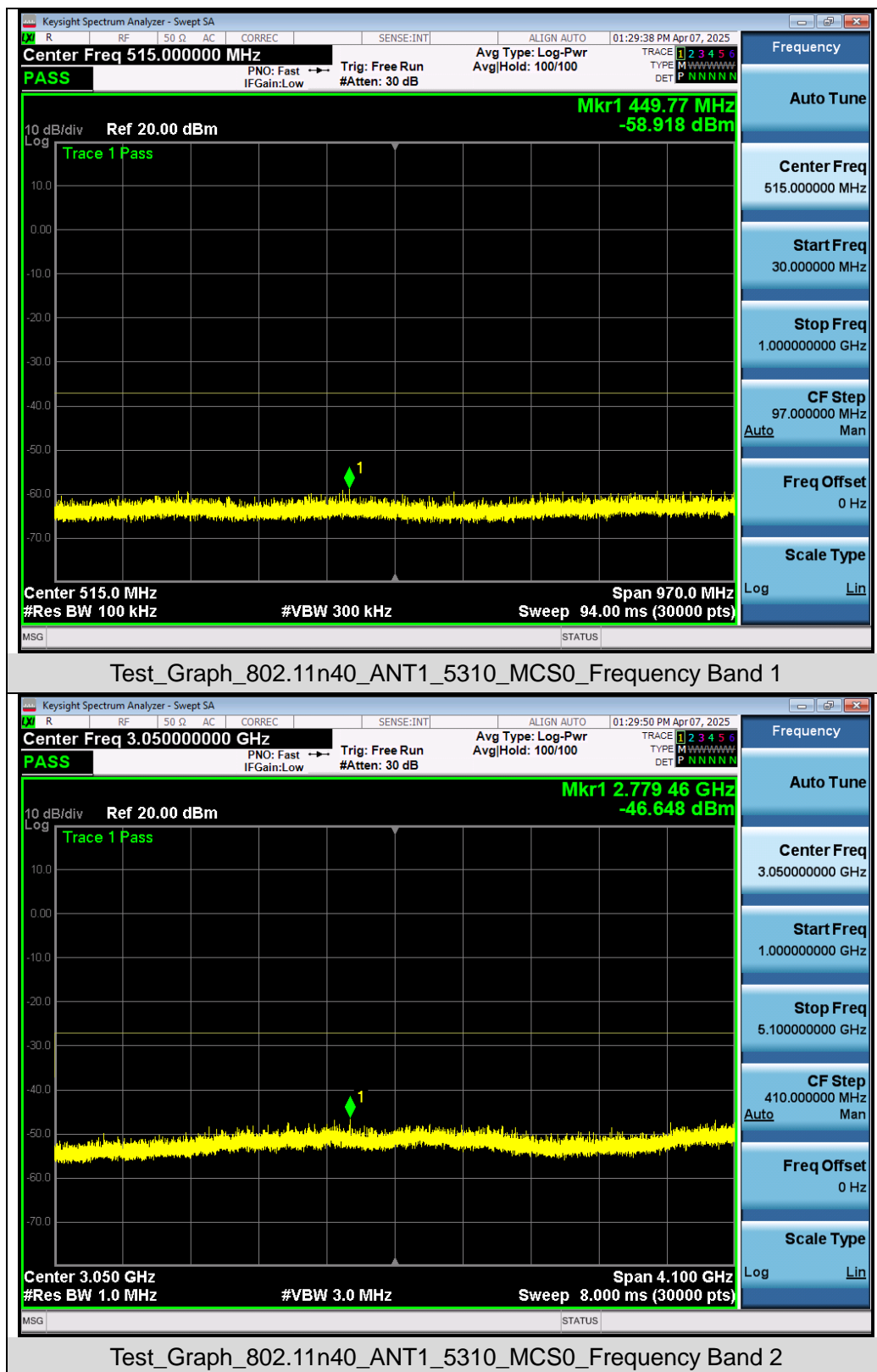


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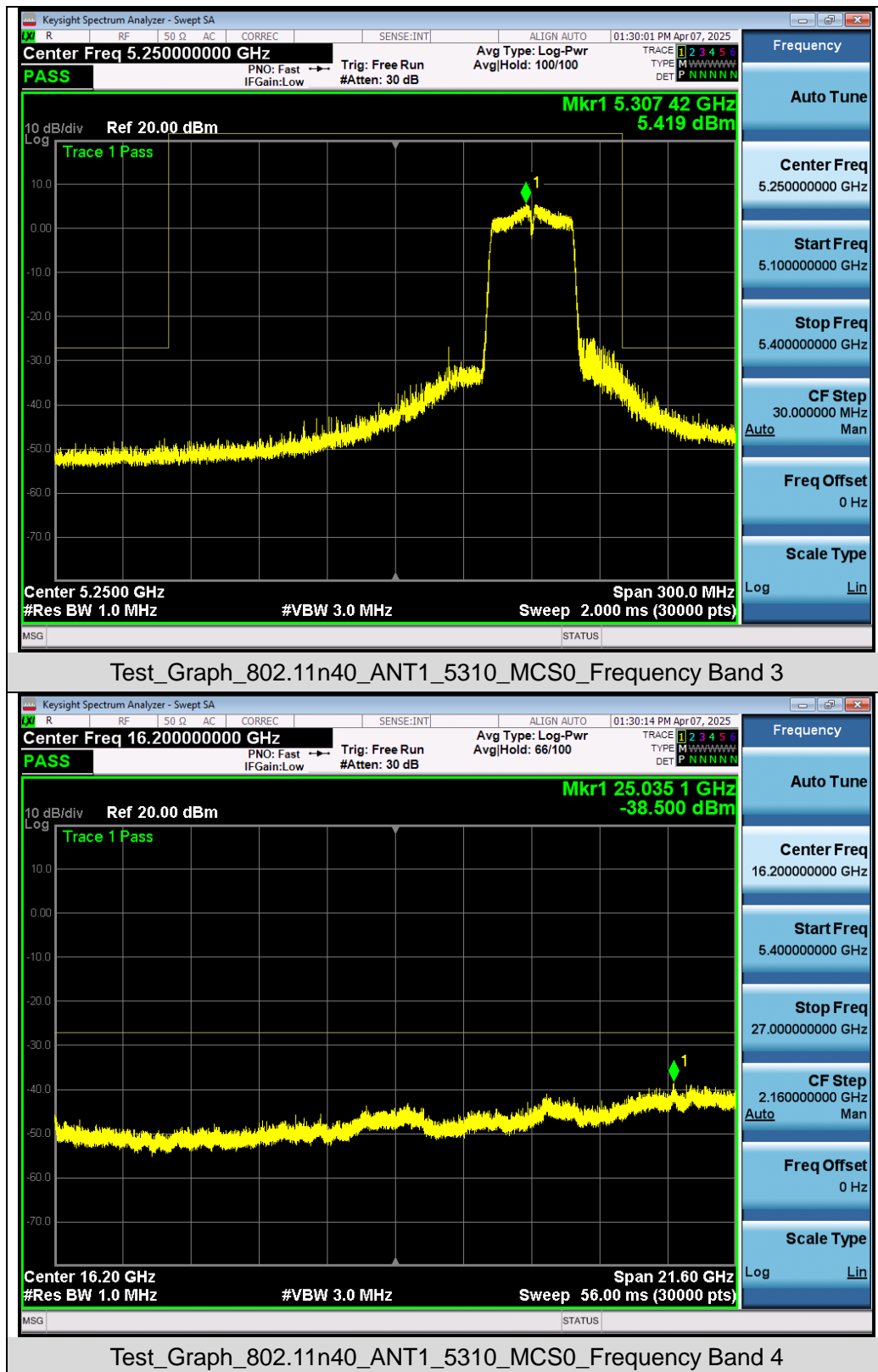
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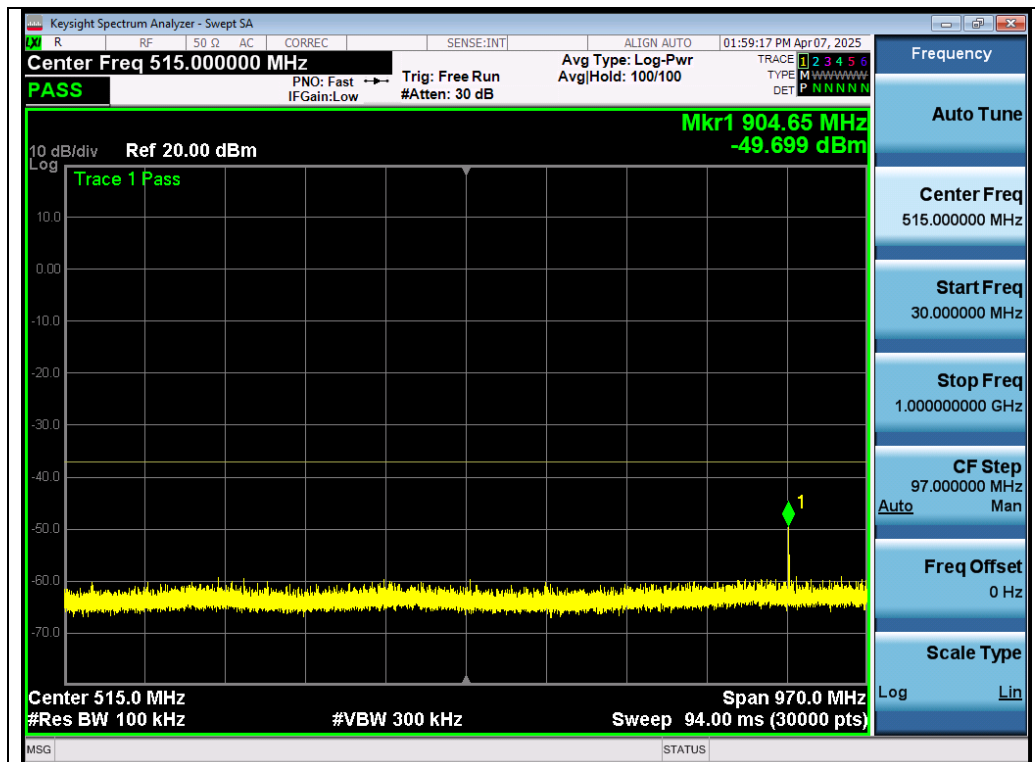
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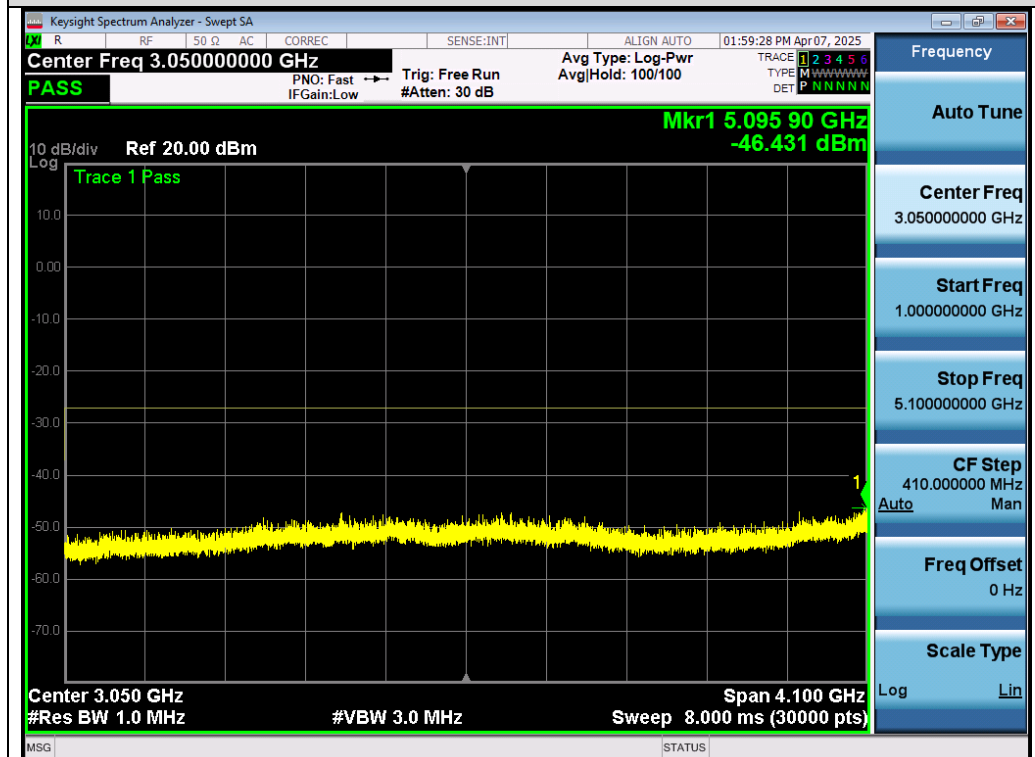
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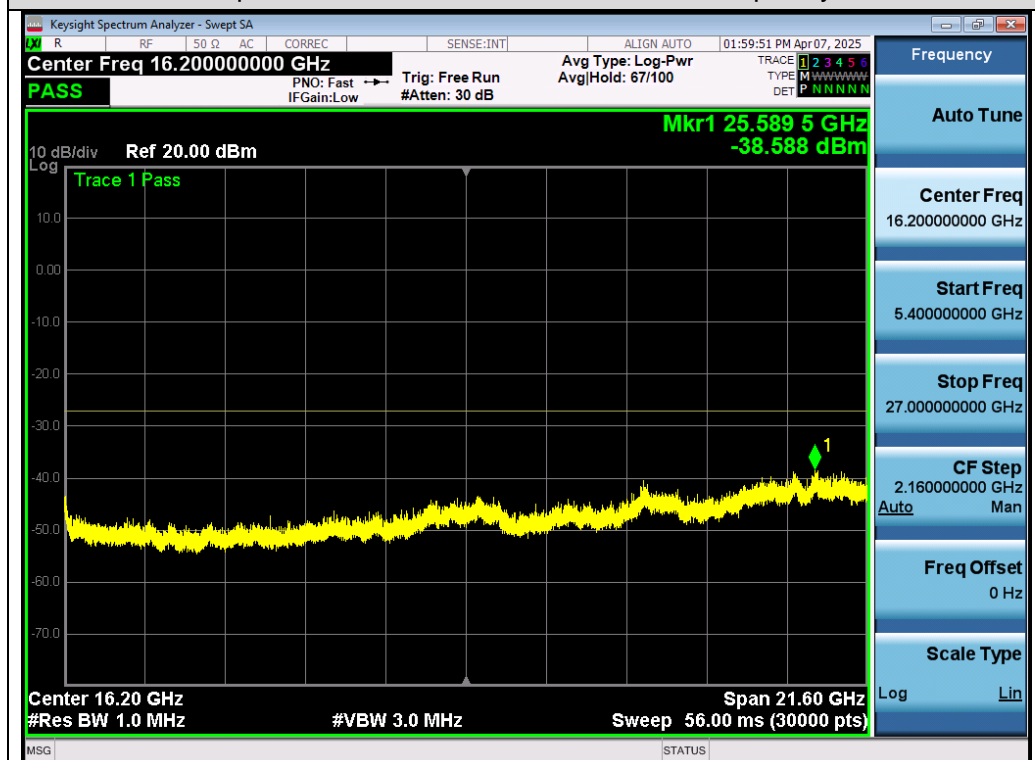
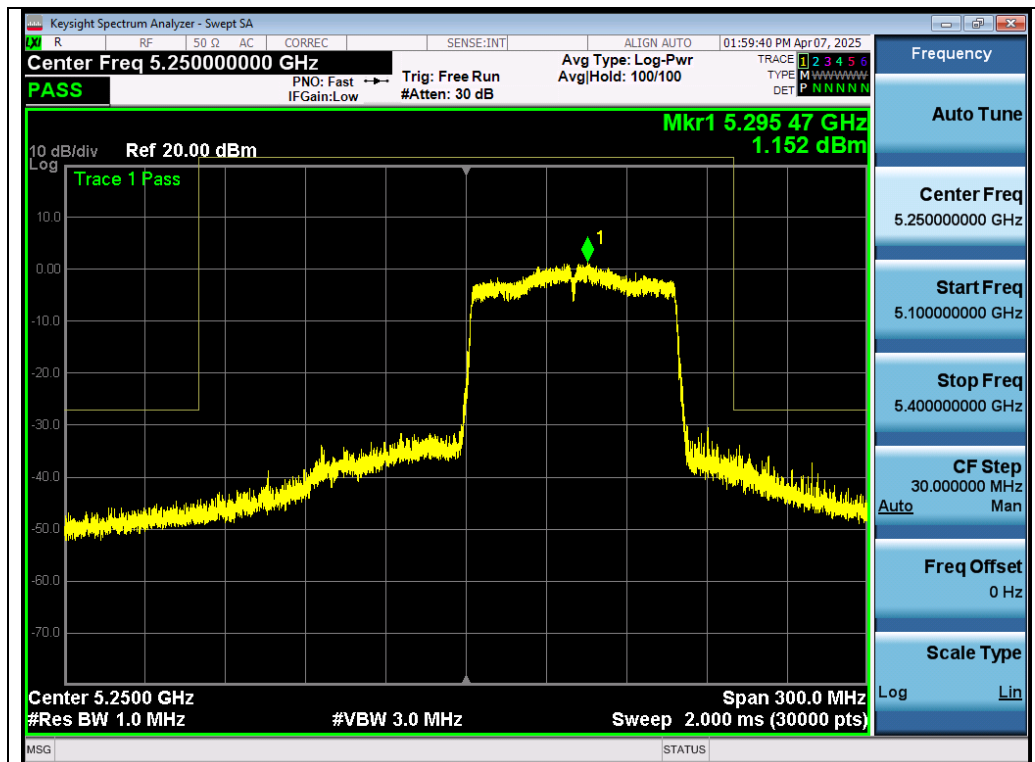
Test\_Graph\_802.11ac80\_ANT1\_5290\_MCS0\_Frequency Band 1



Test\_Graph\_802.11ac80\_ANT1\_5290\_MCS0\_Frequency Band 2

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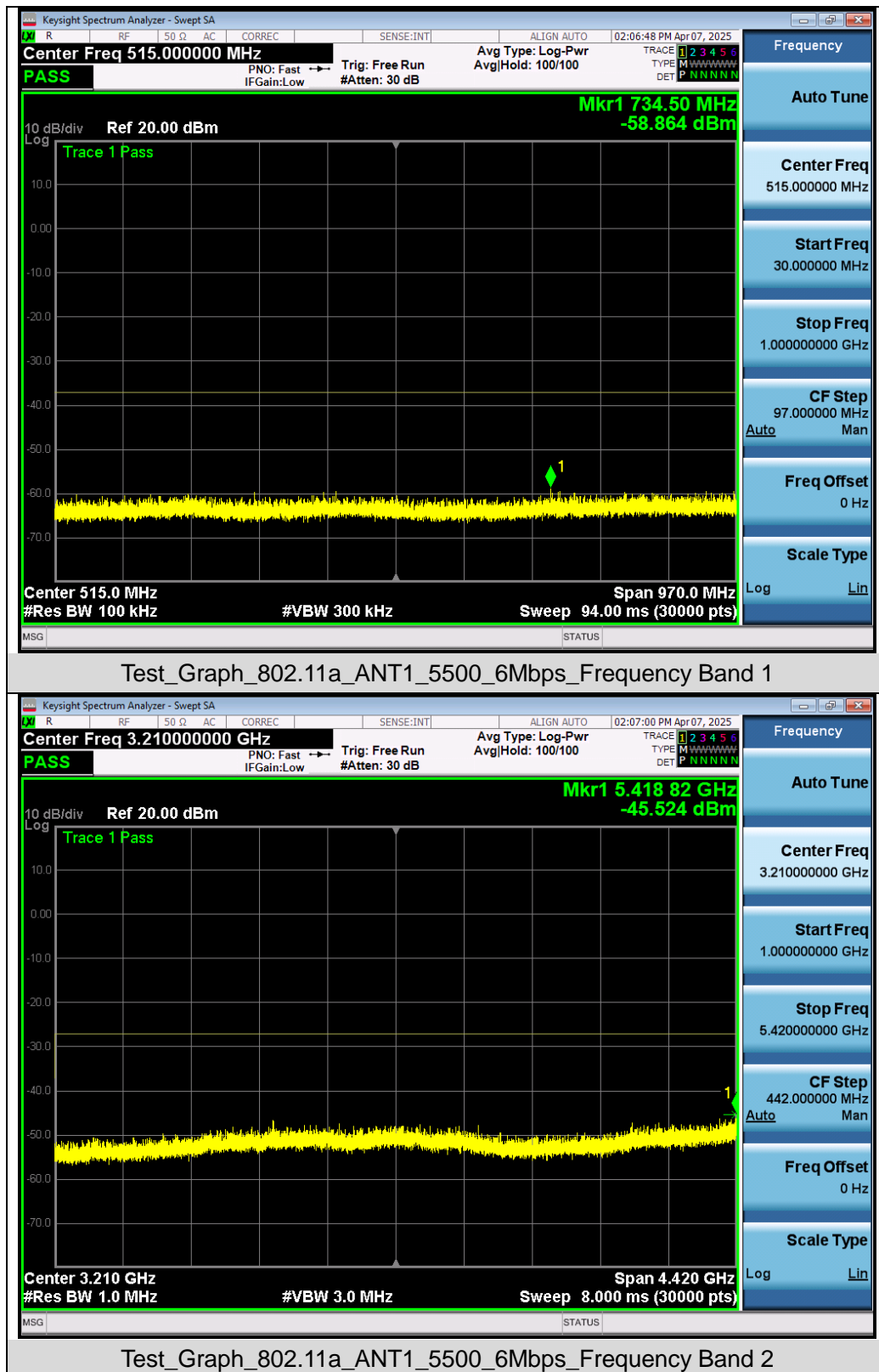




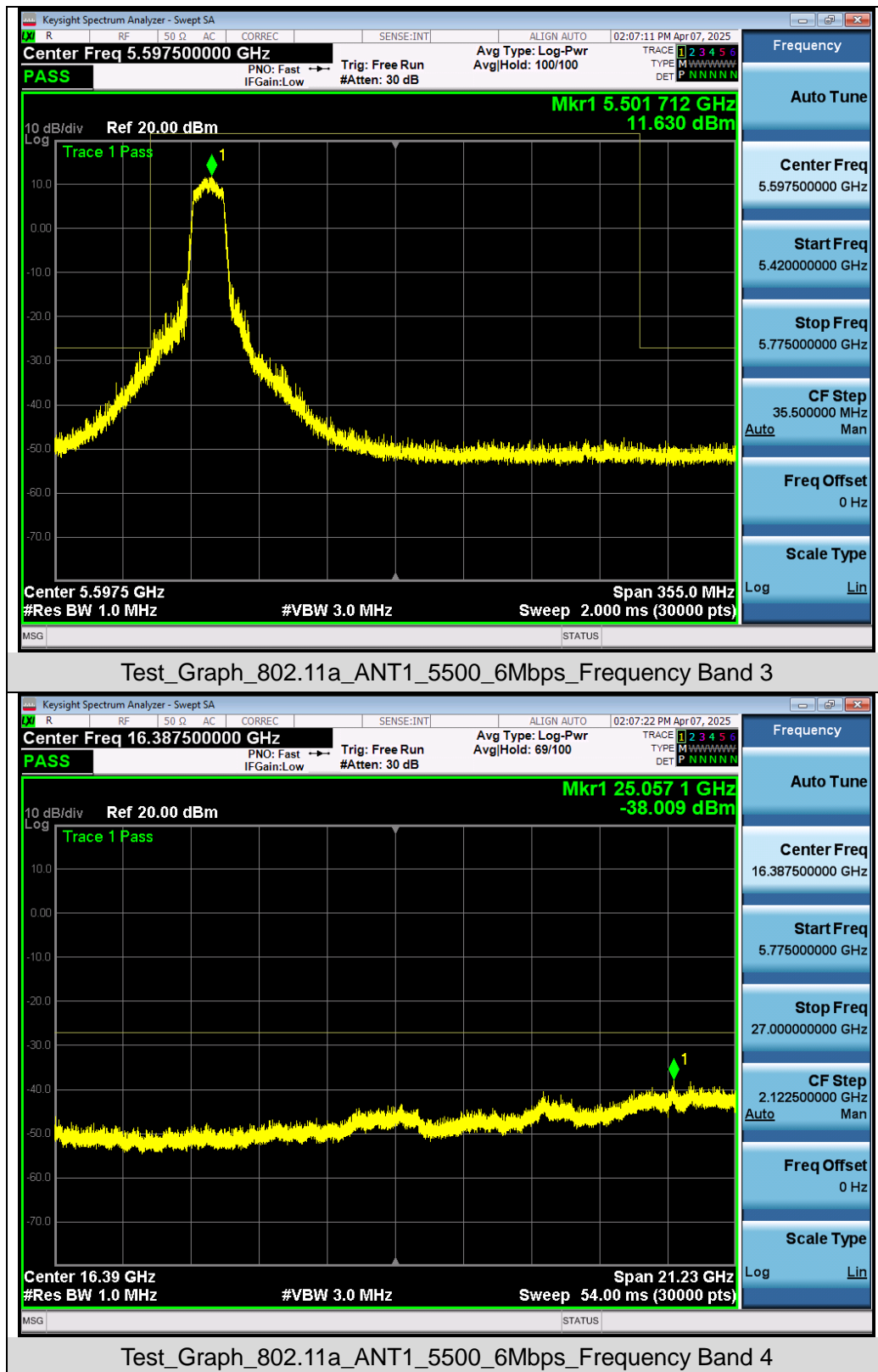
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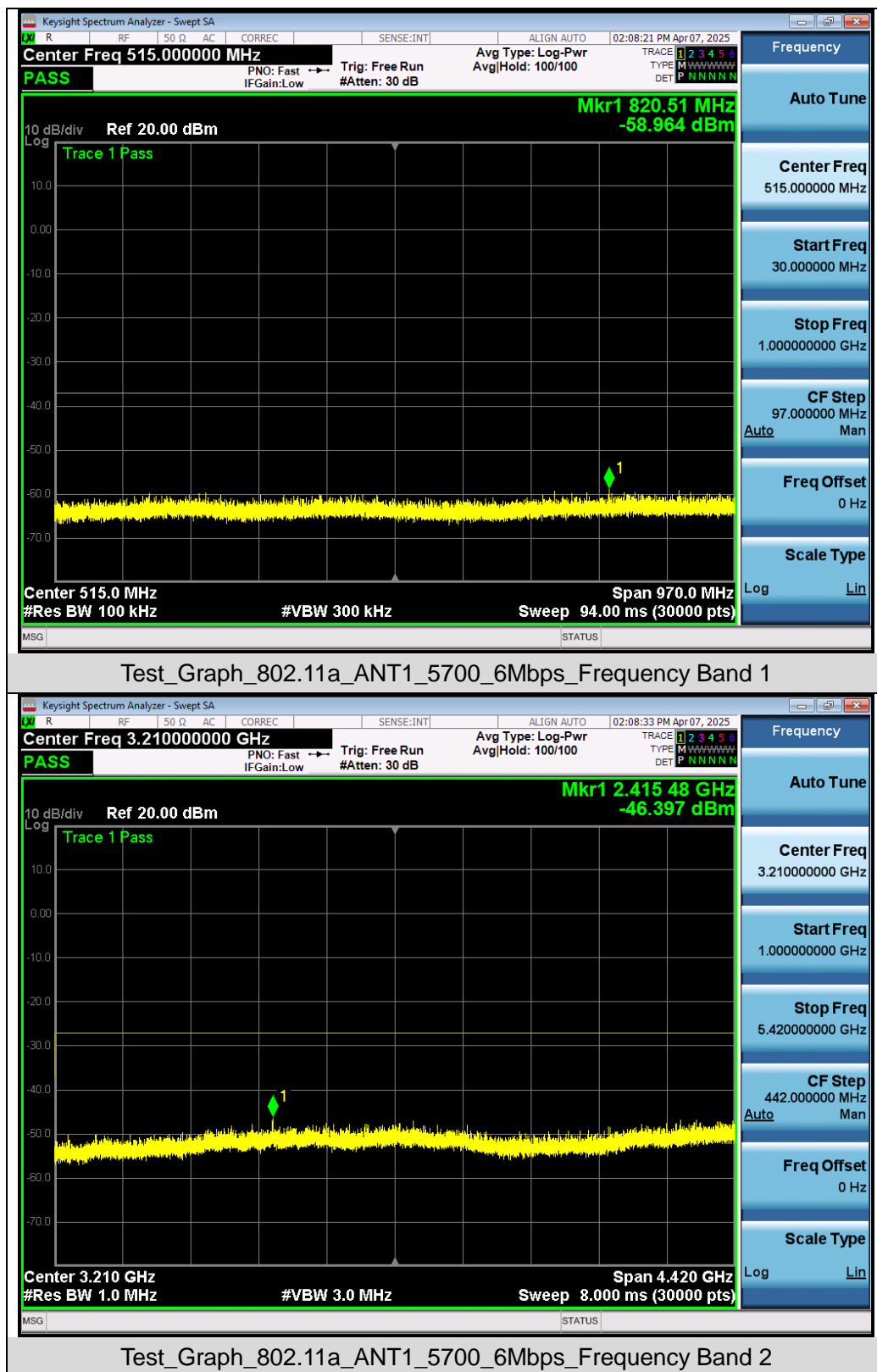
**Test Graphs of Spurious Emissions outside of the 5.470-5.725 GHz band for transmitters operating in the 5.470-5.725 GHz band**



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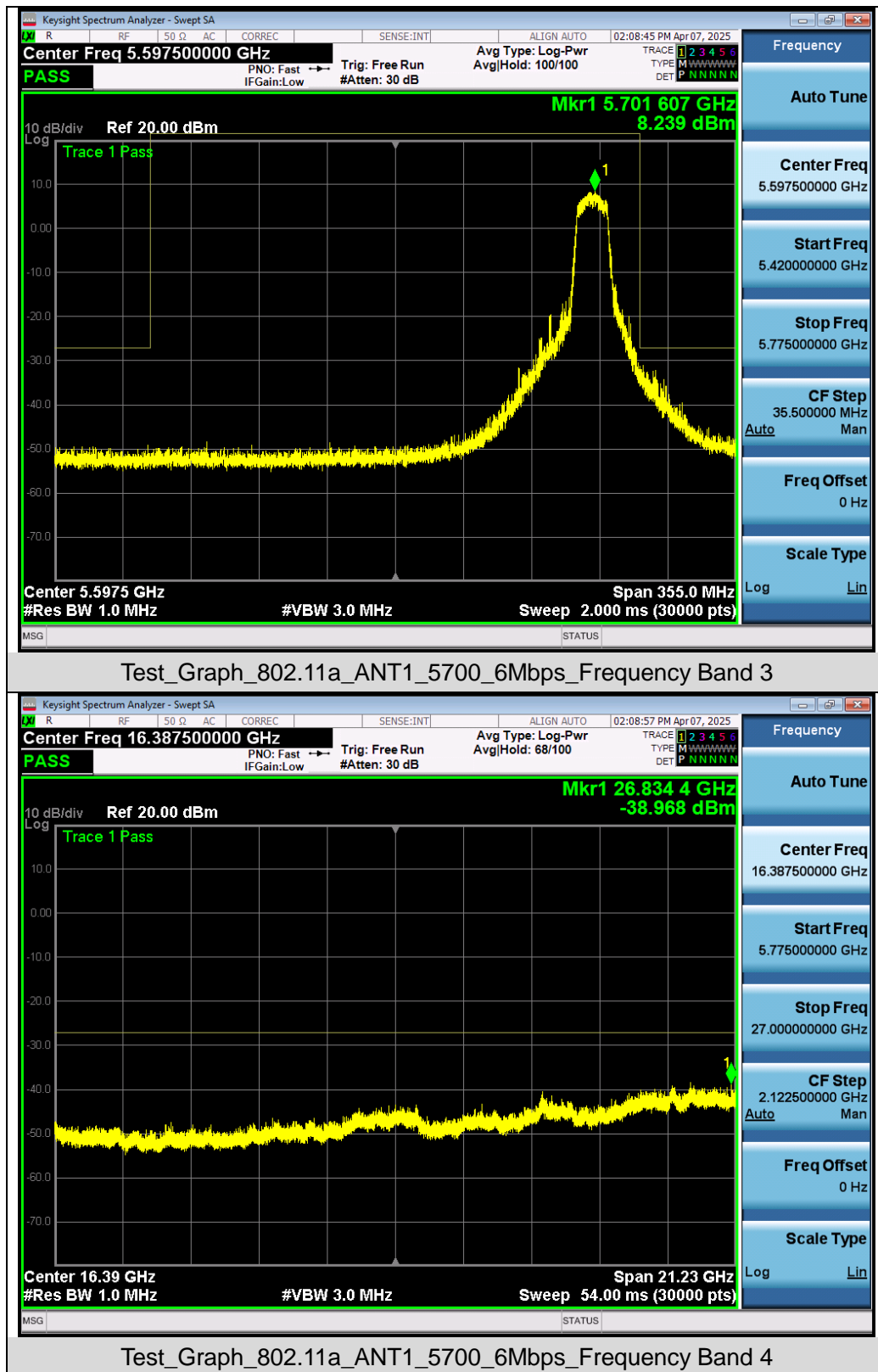


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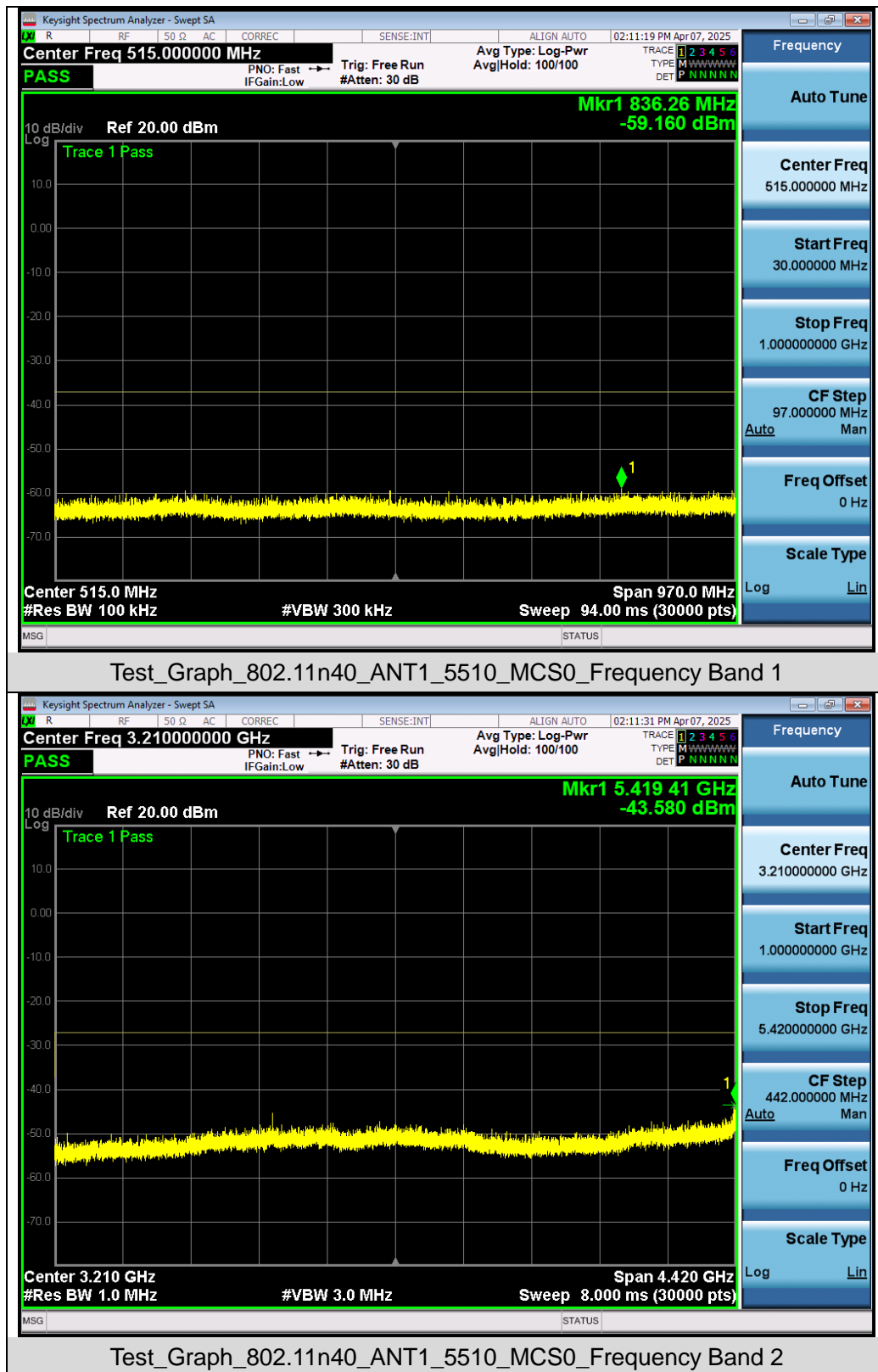
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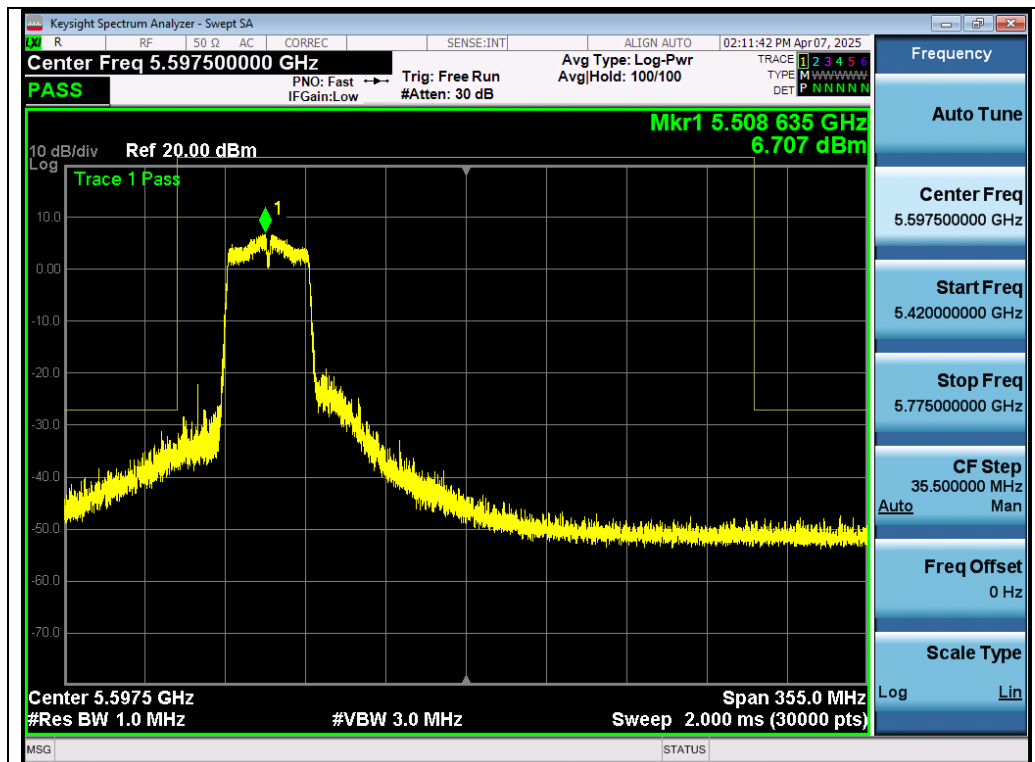
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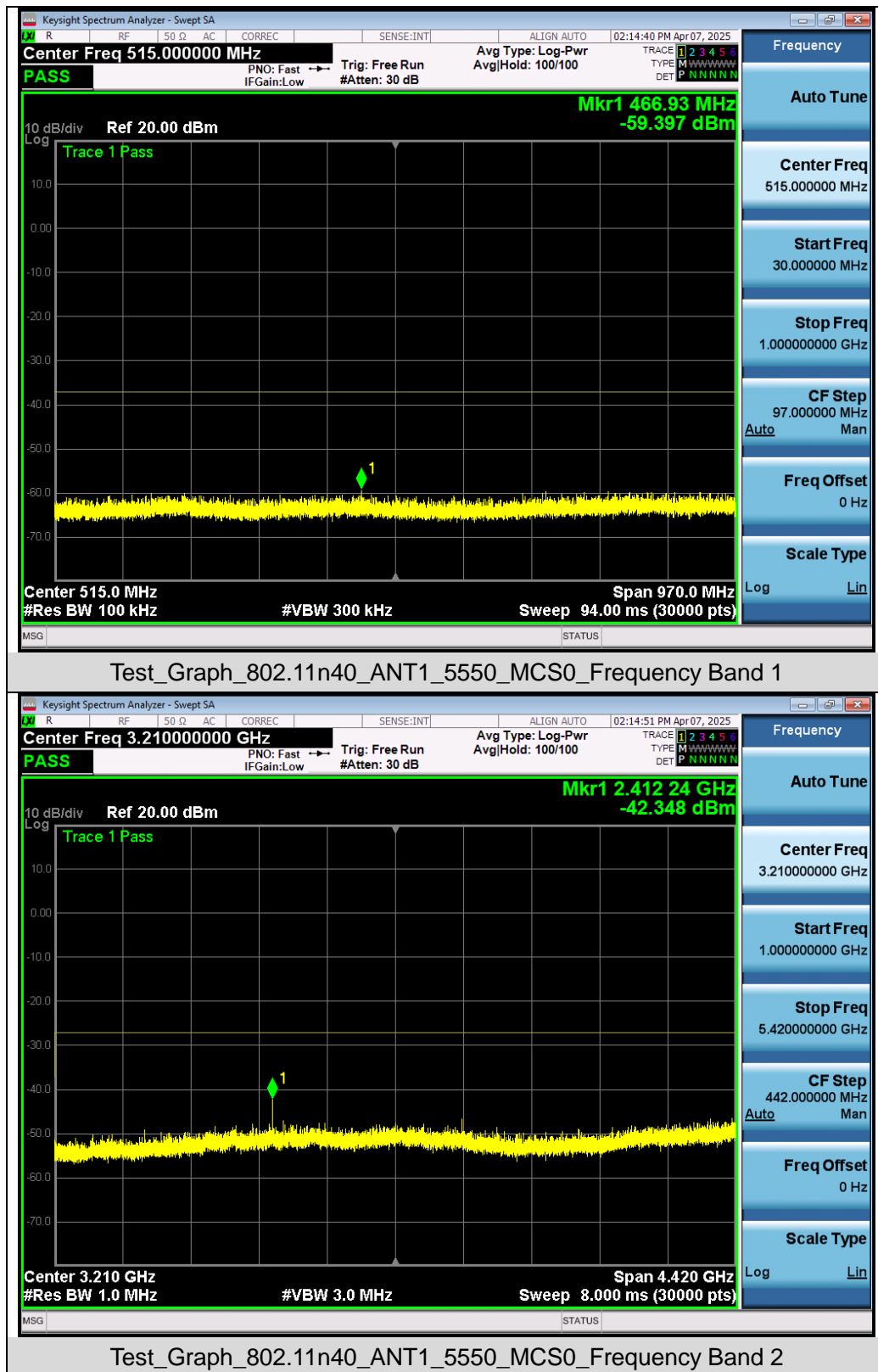


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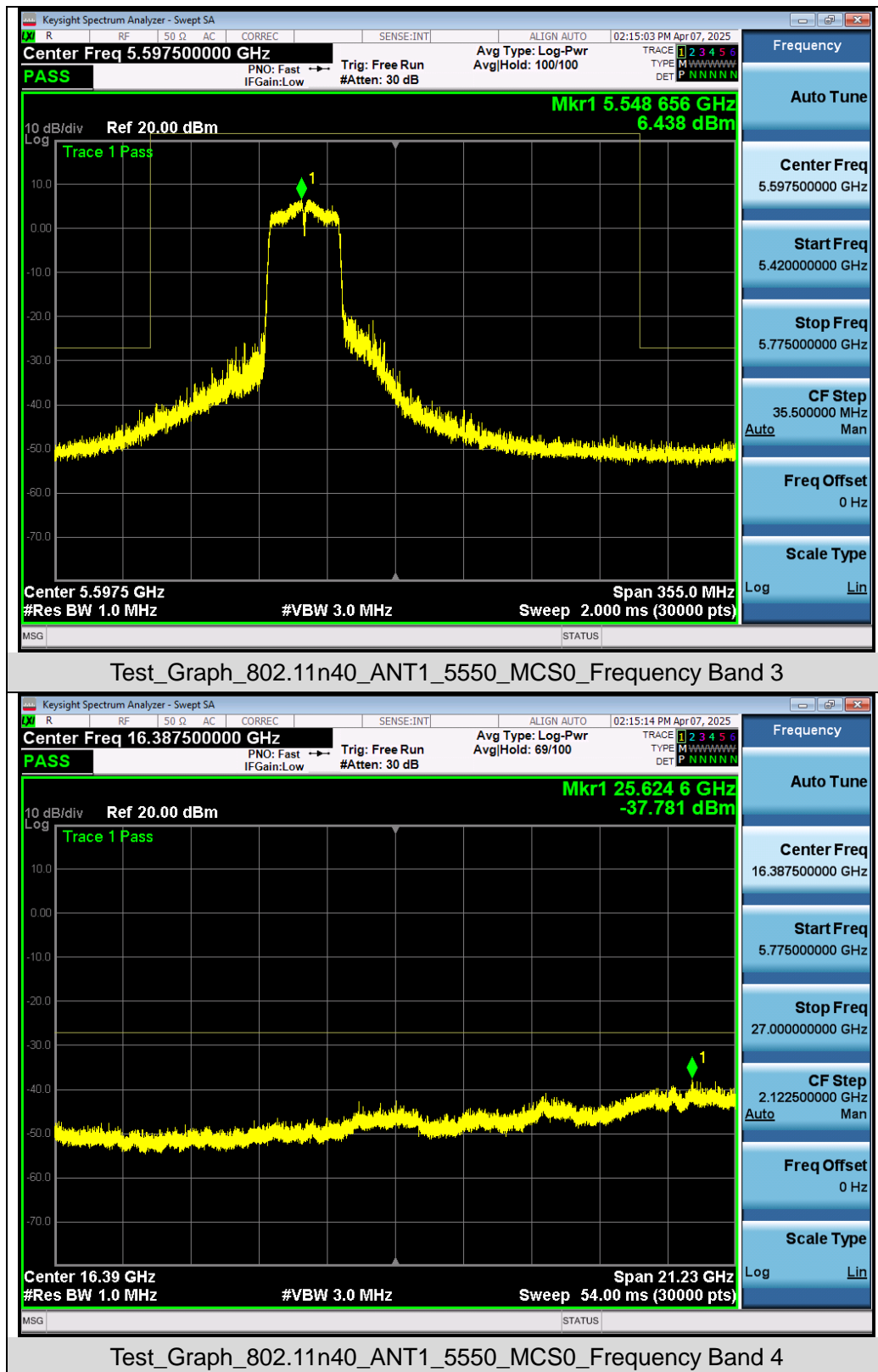
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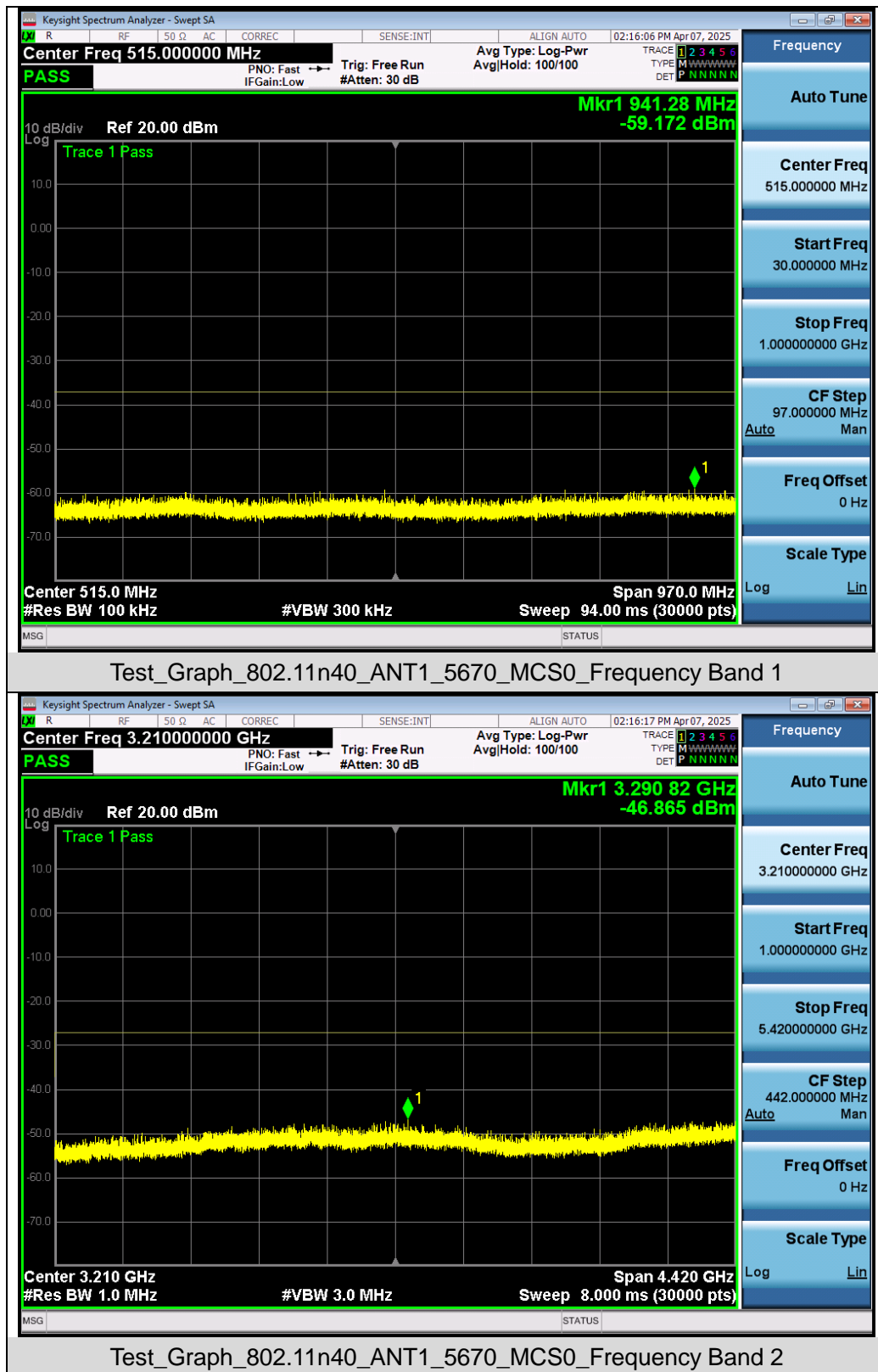


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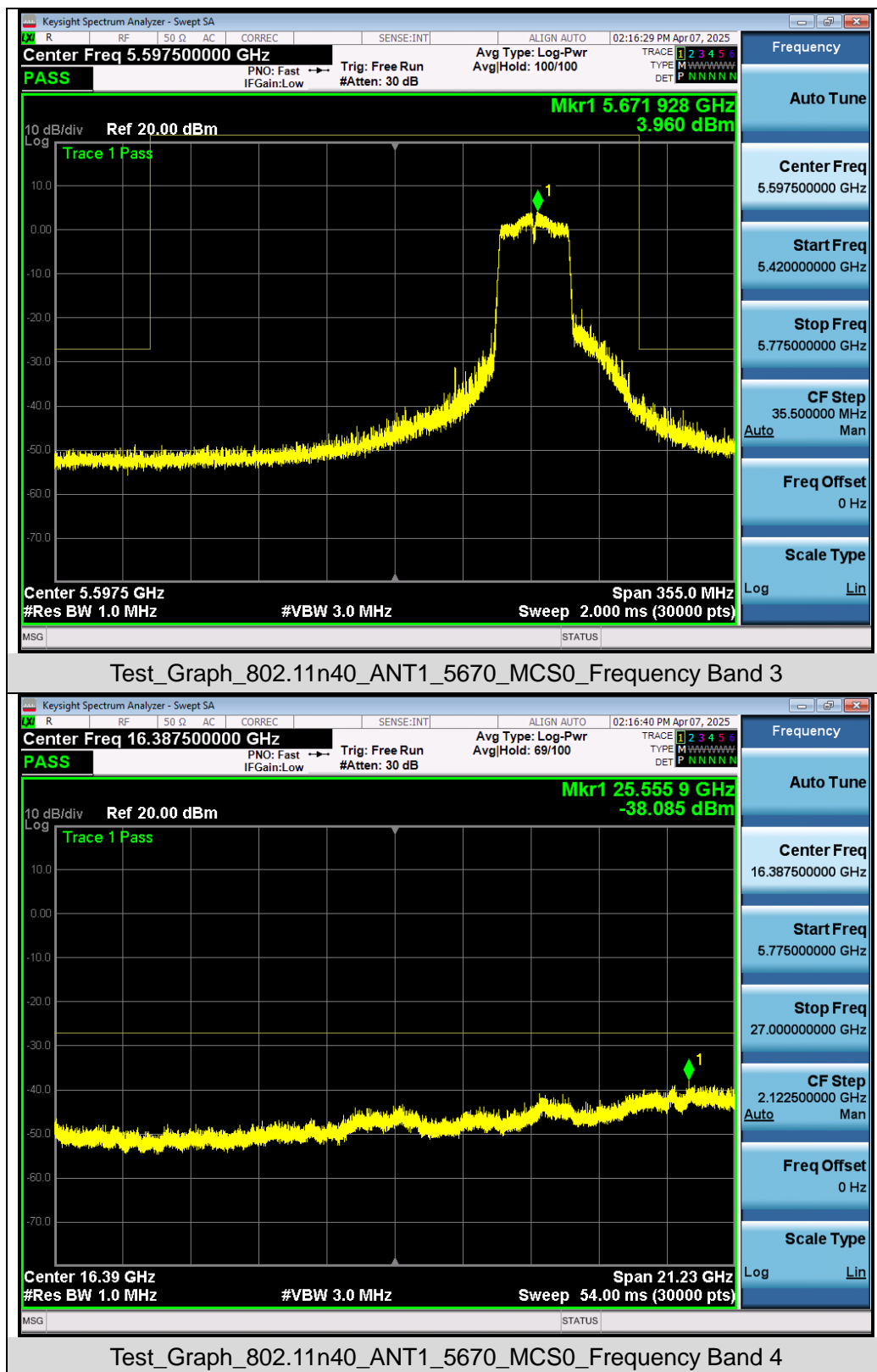
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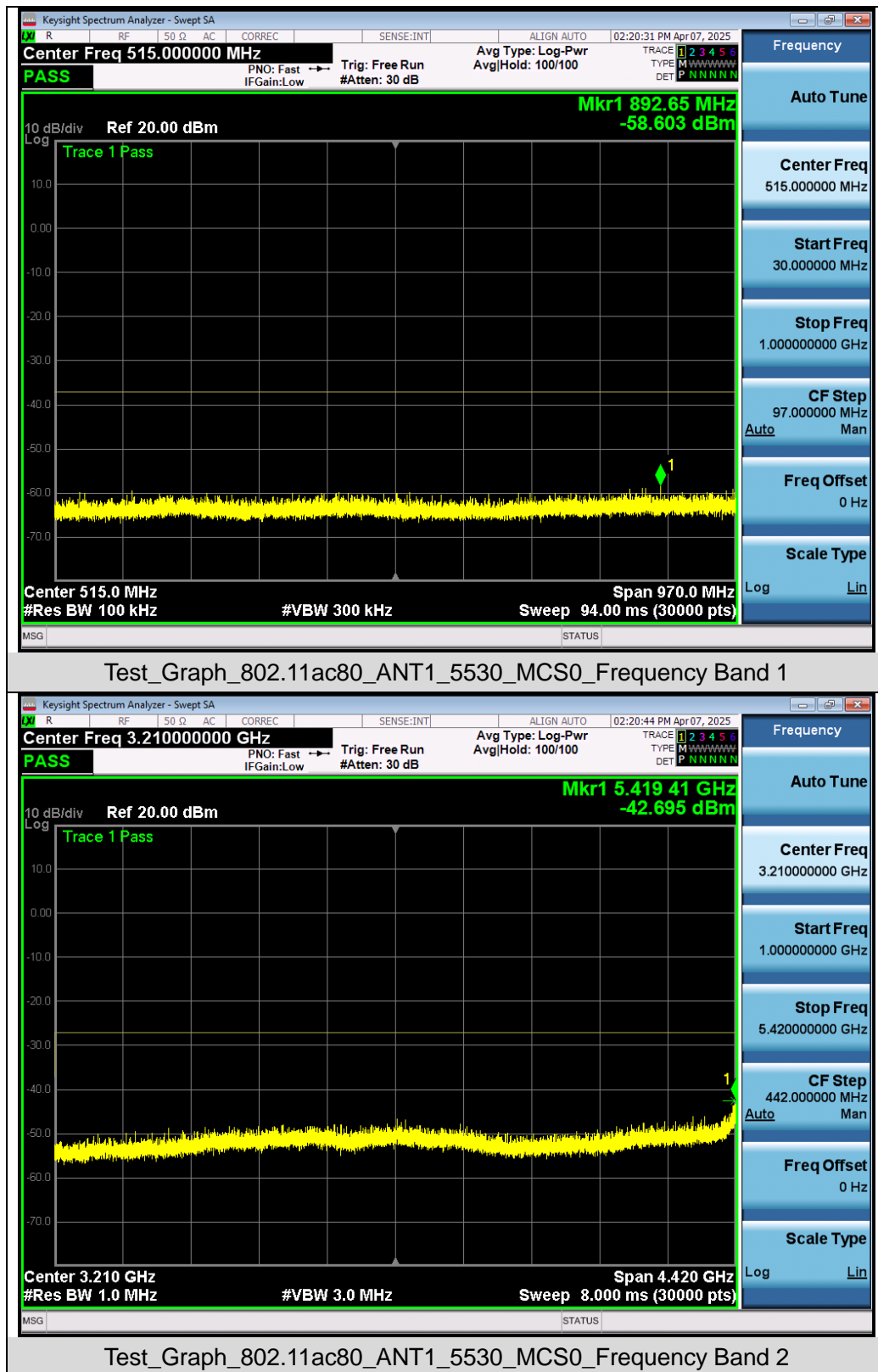


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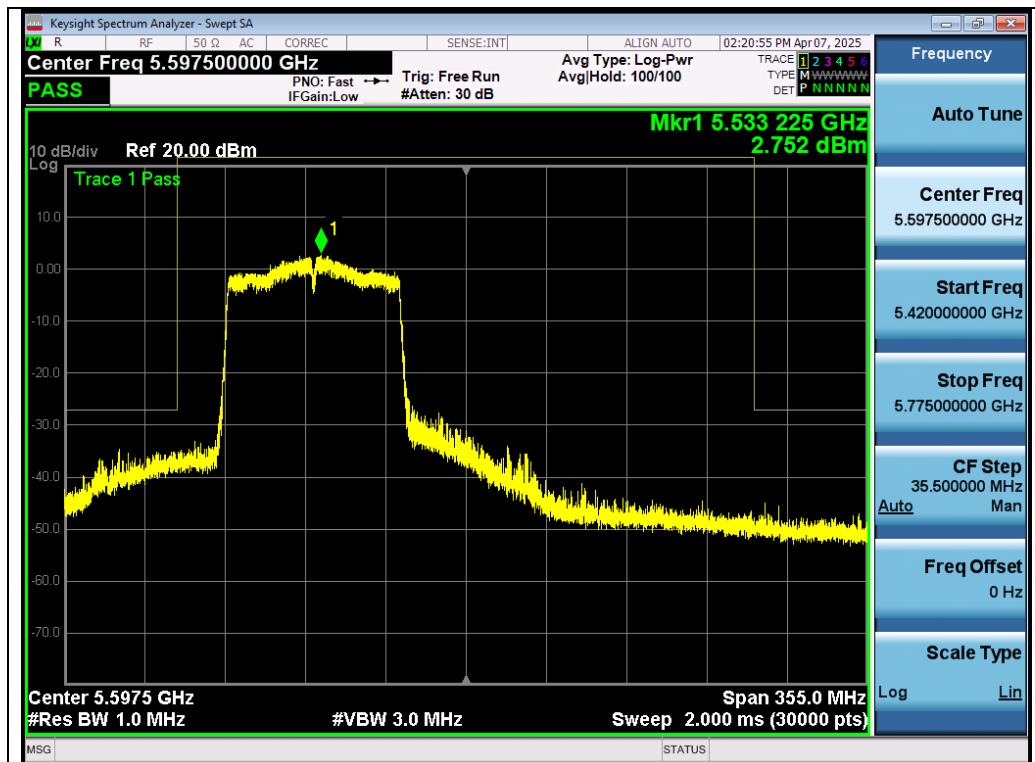




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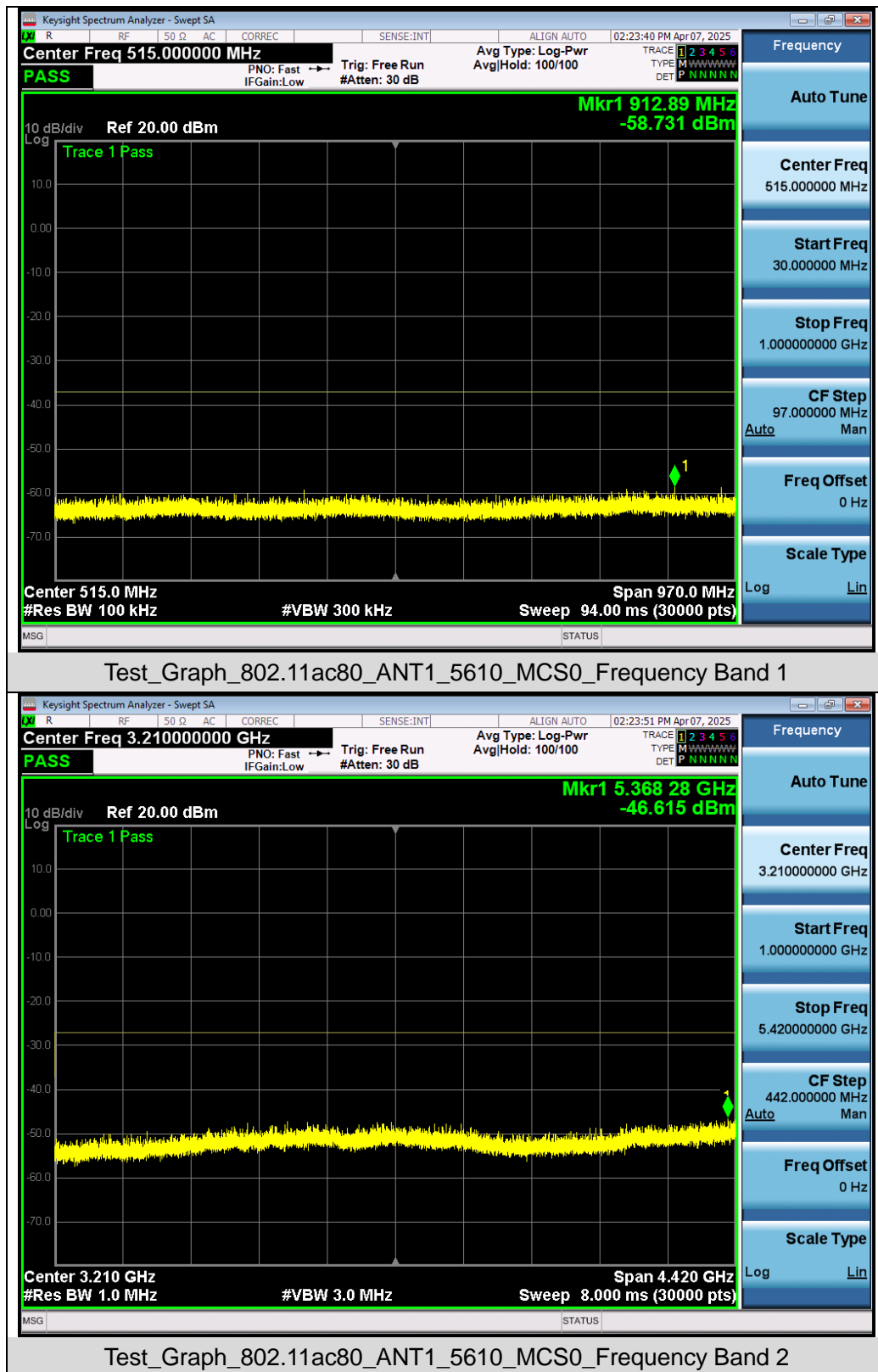


Test\_Graph\_802.11ac80\_ANT1\_5530\_MCS0\_Frequency Band 3

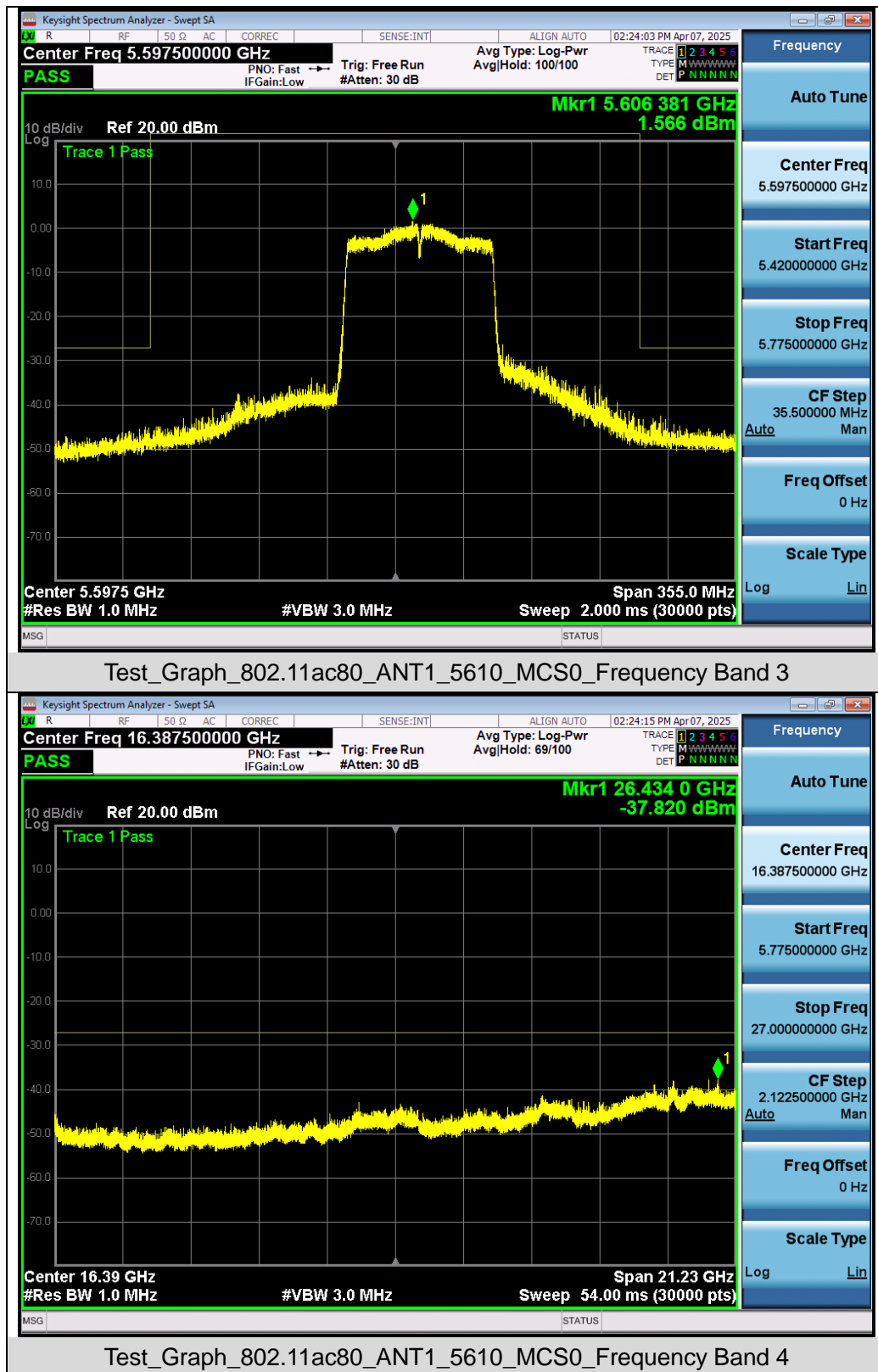


Test\_Graph\_802.11ac80\_ANT1\_5530\_MCS0\_Frequency Band 4

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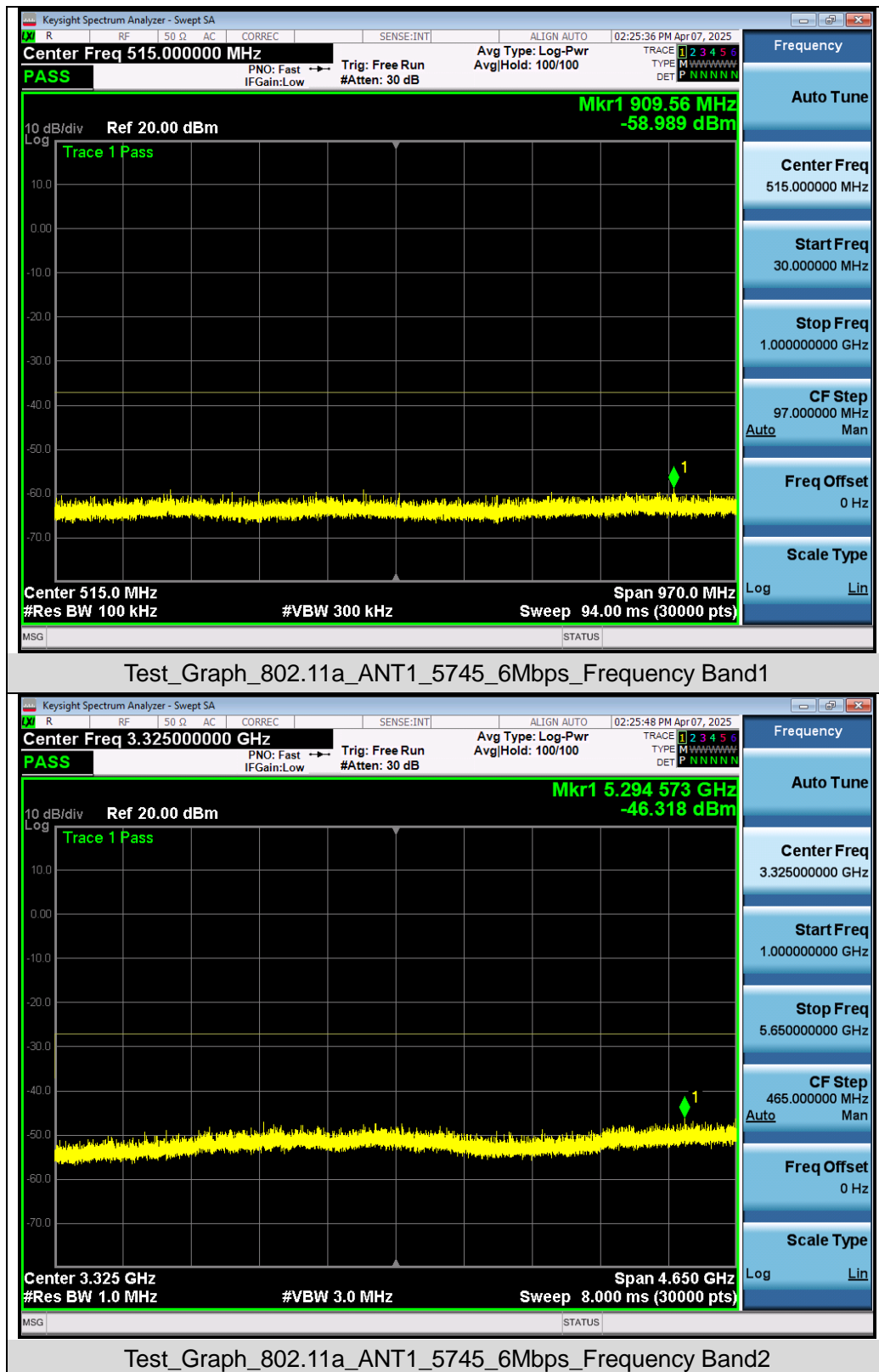


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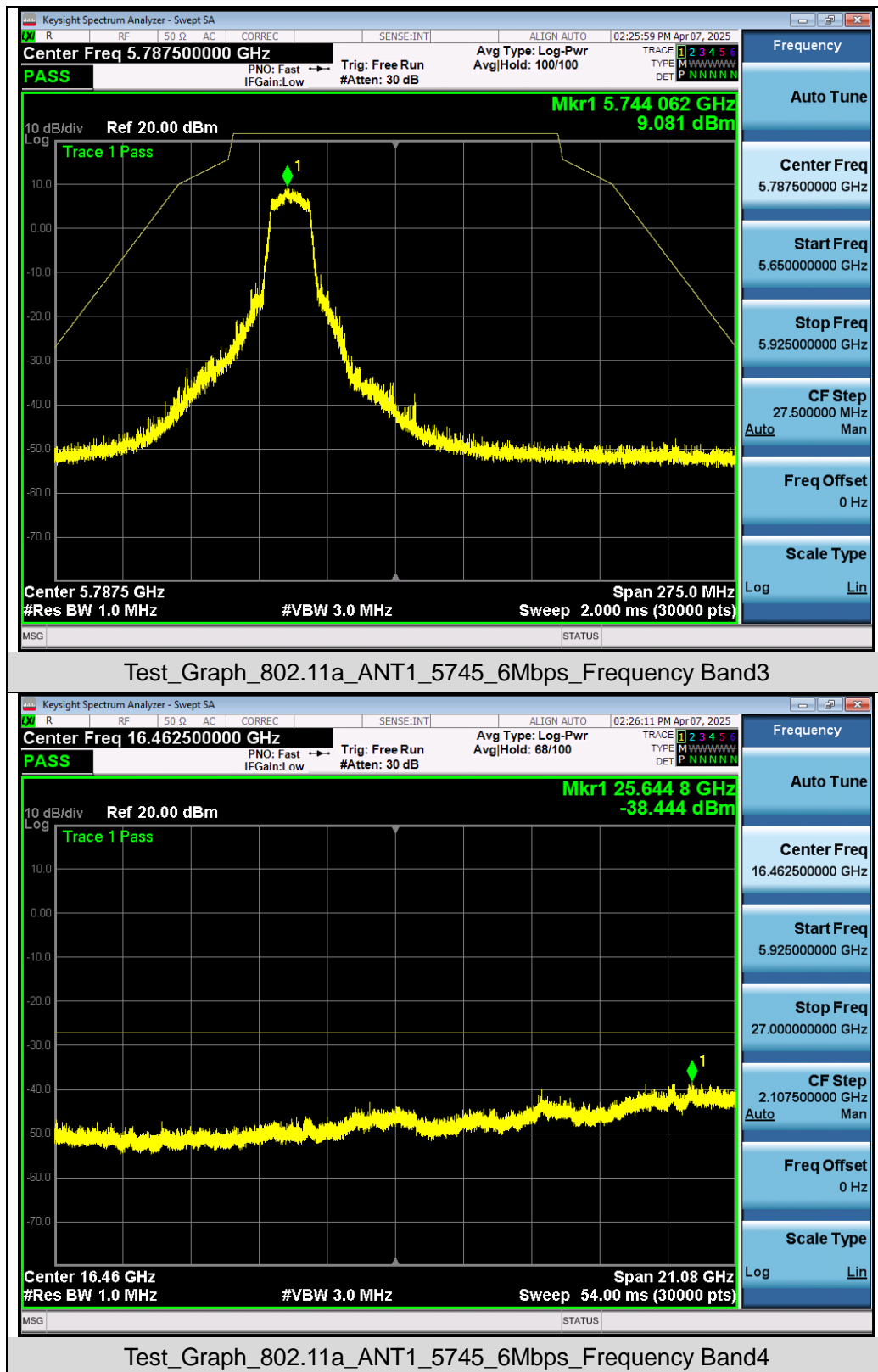


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## Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band

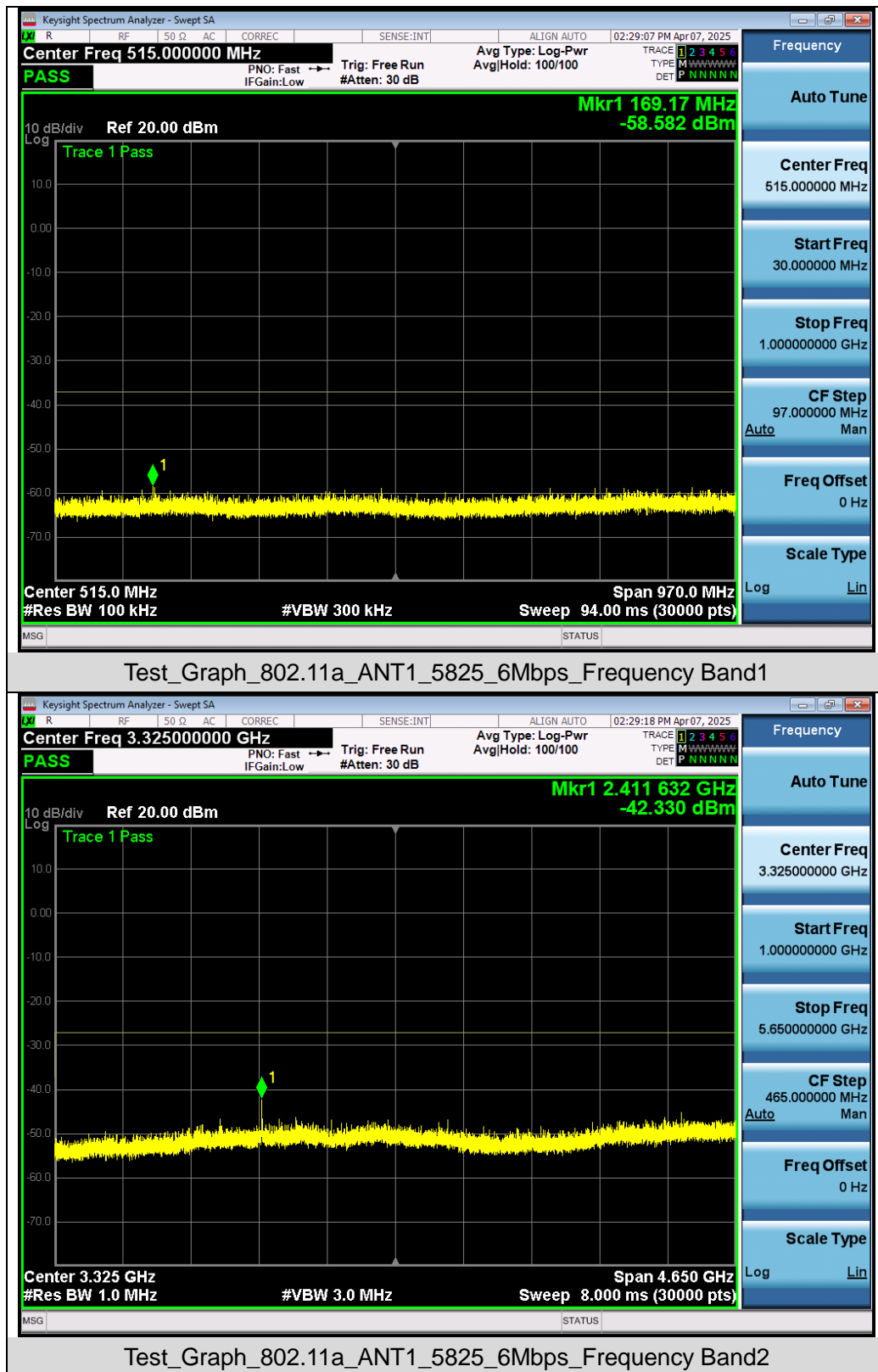


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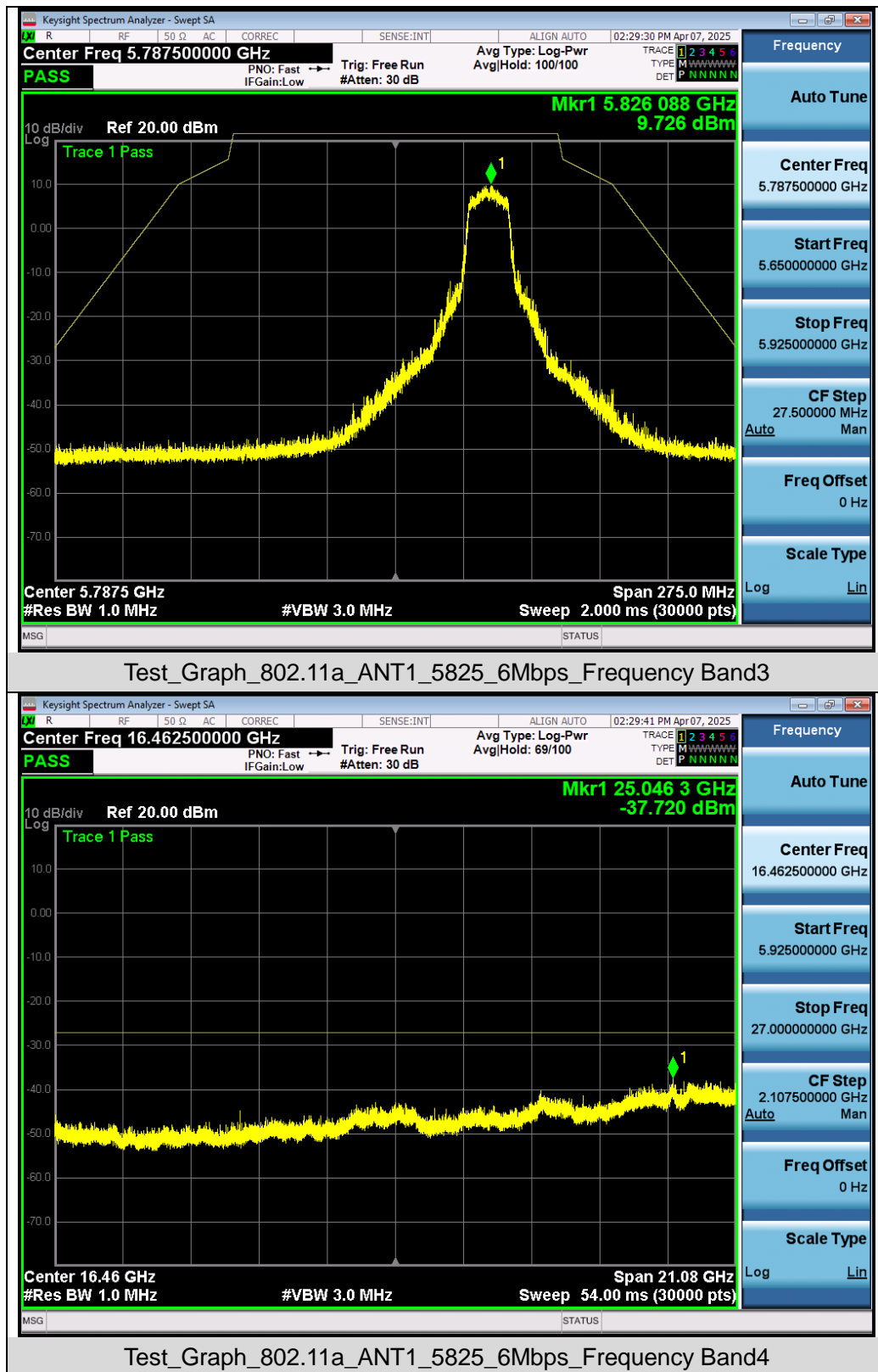


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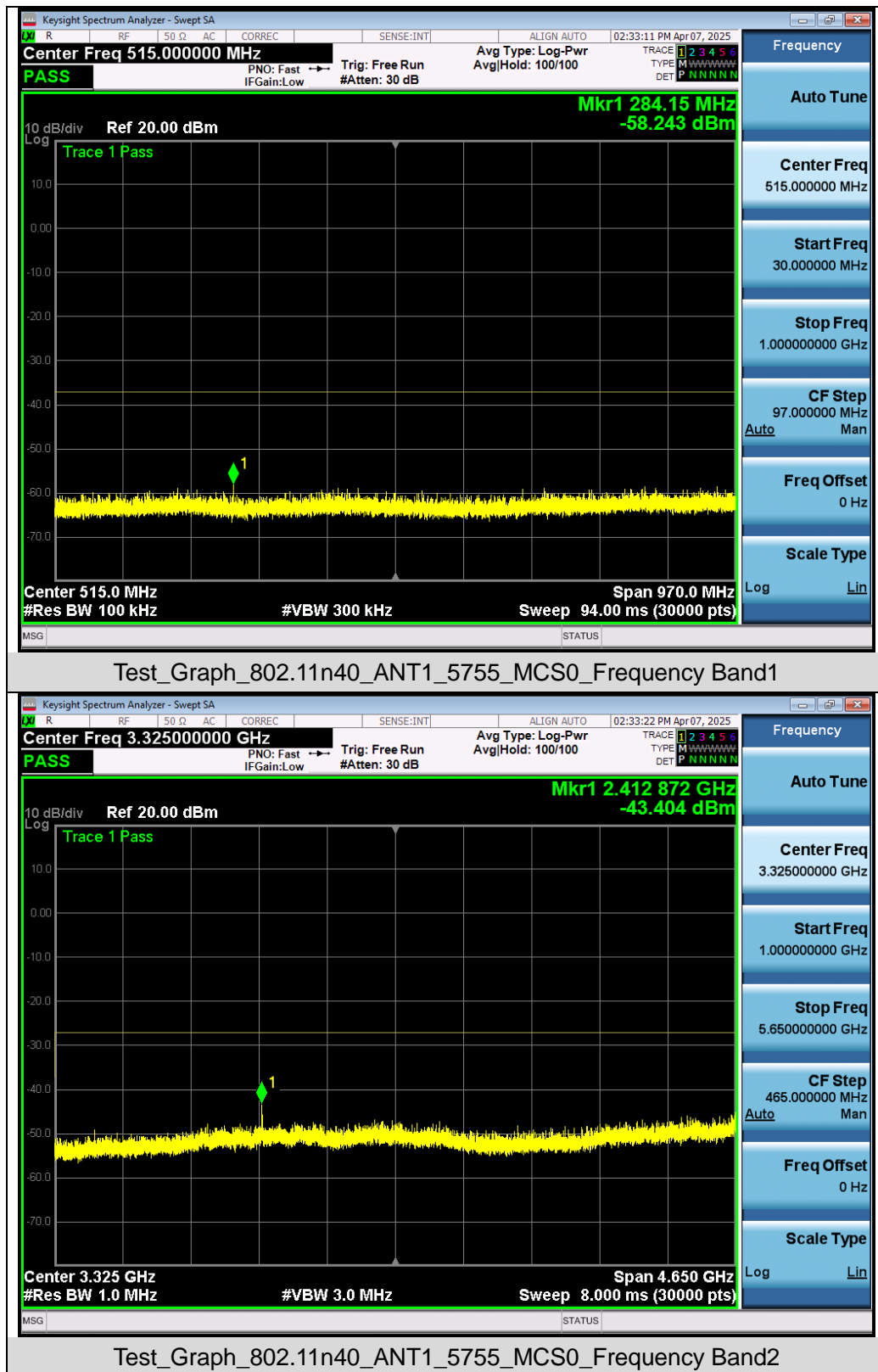




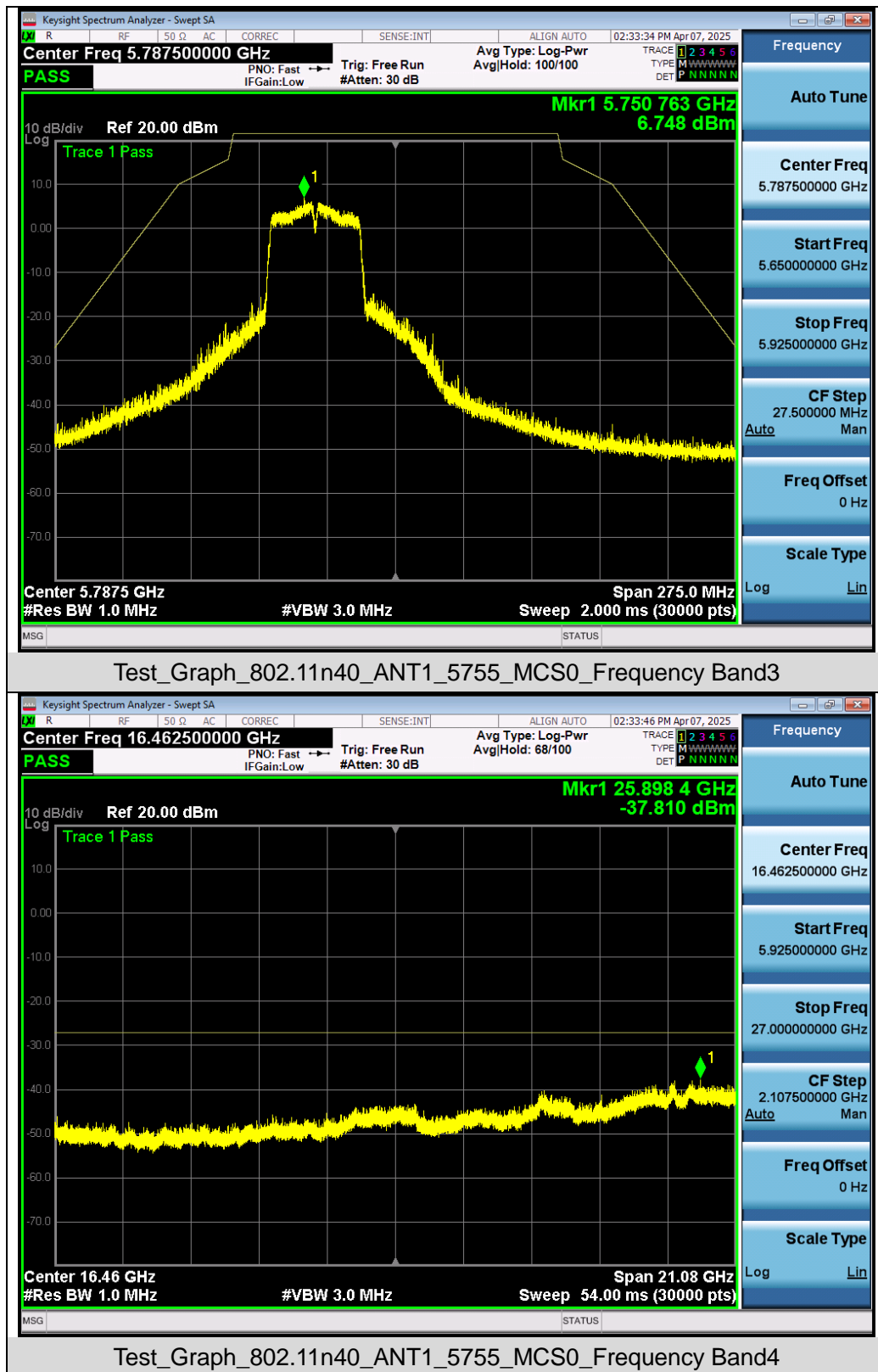
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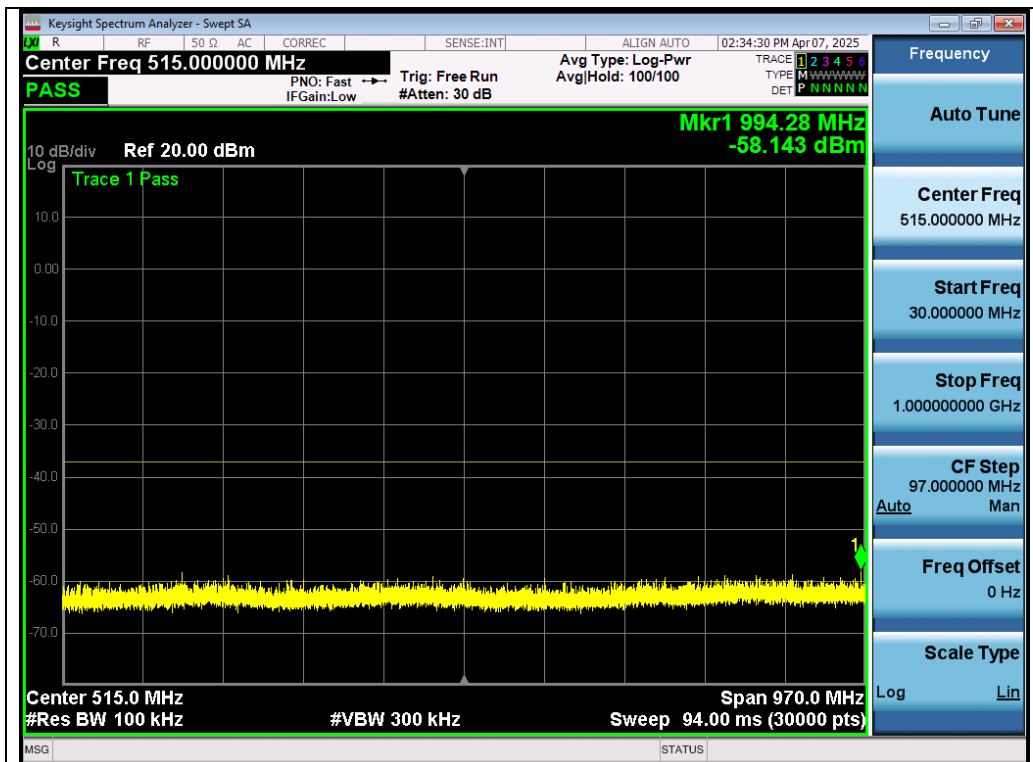
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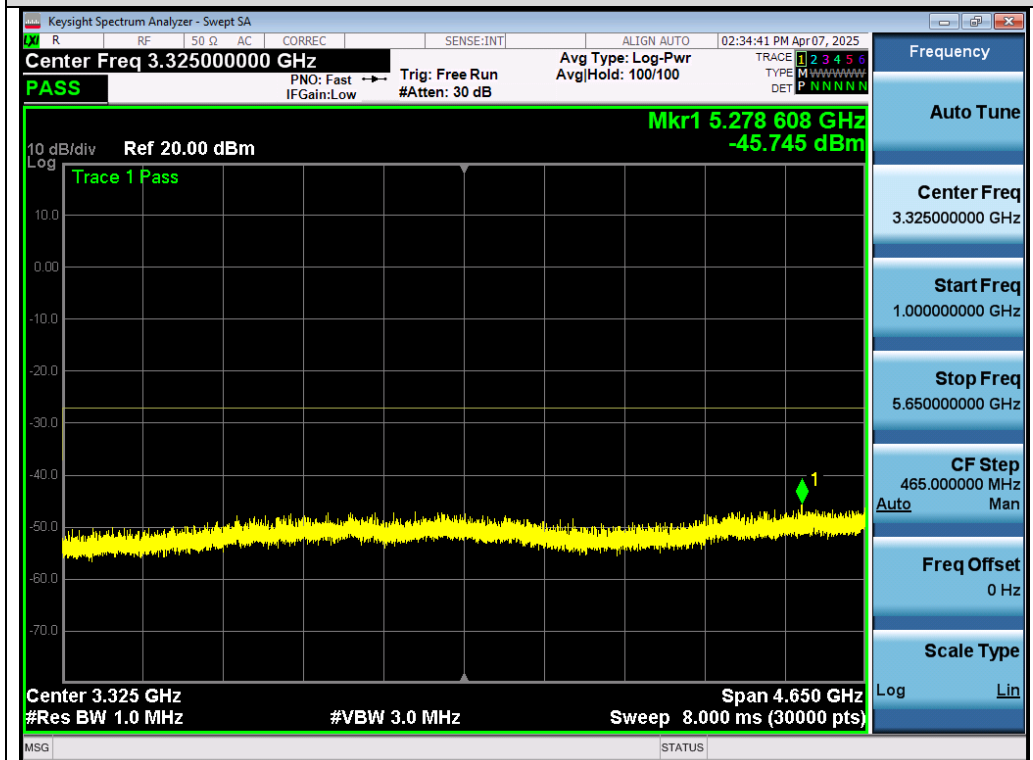
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Test\_Graph\_802.11n40\_ANT1\_5795\_MCS0\_Frequency Band1

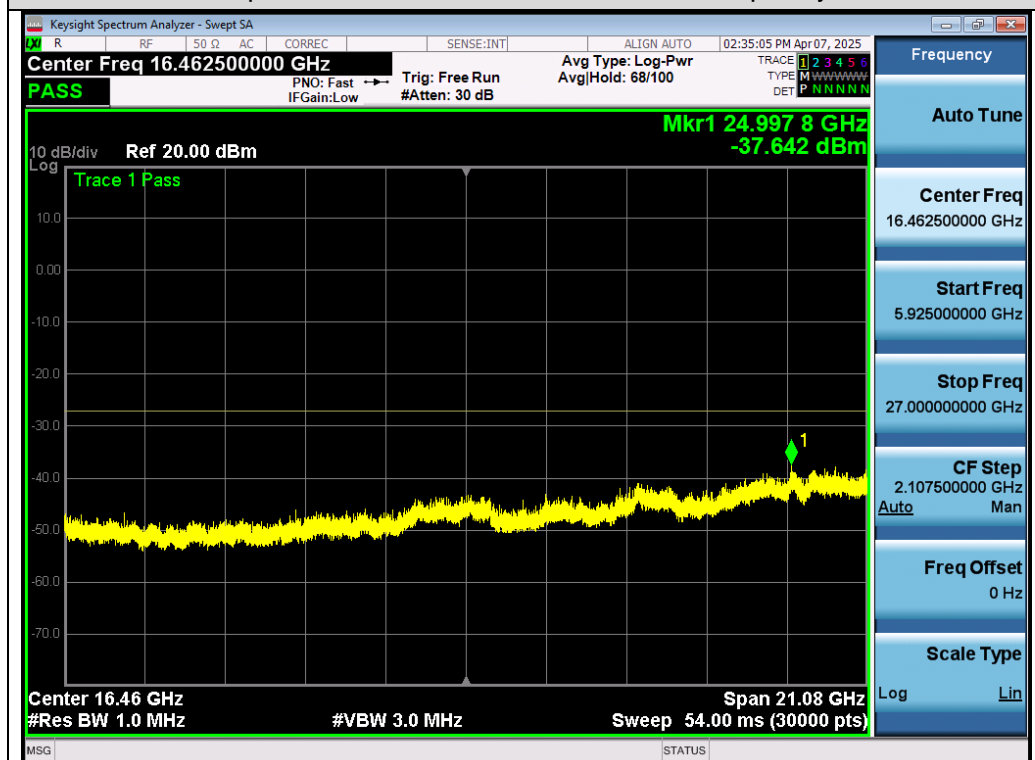
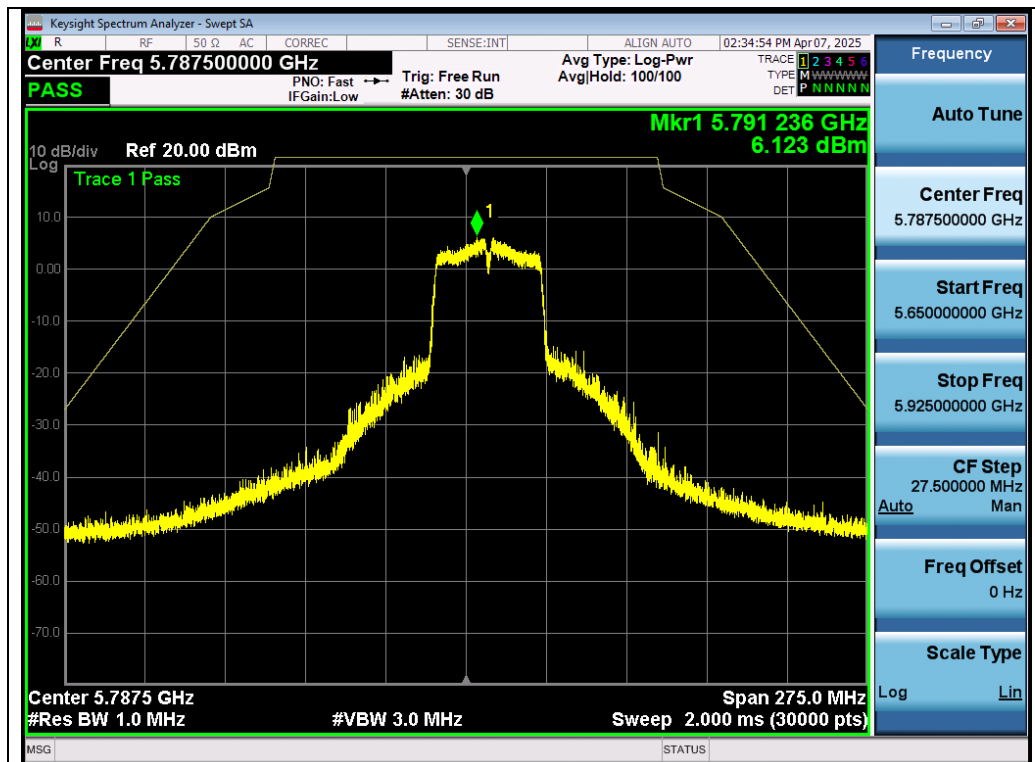


Test\_Graph\_802.11n40\_ANT1\_5795\_MCS0\_Frequency Band2

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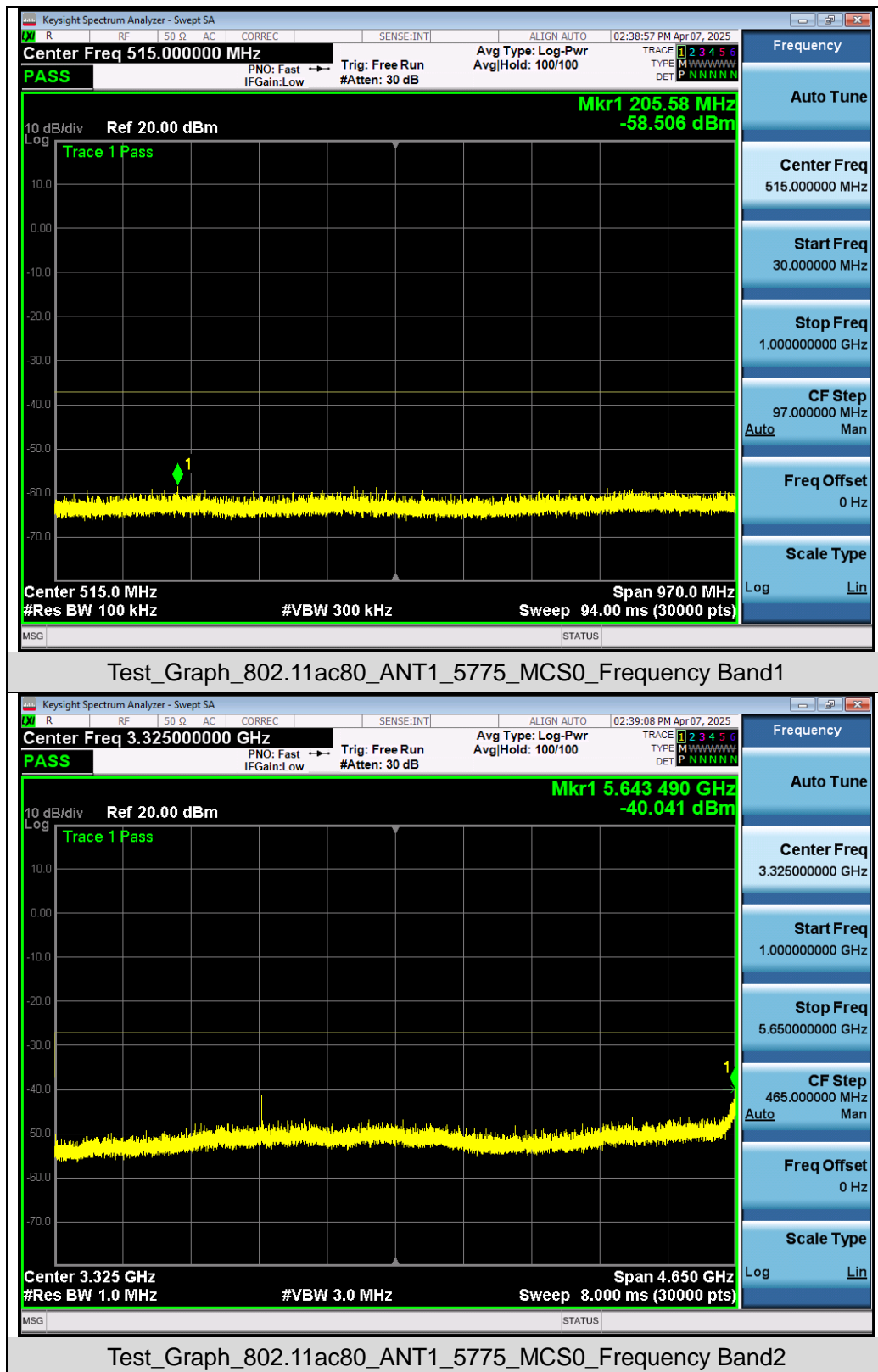
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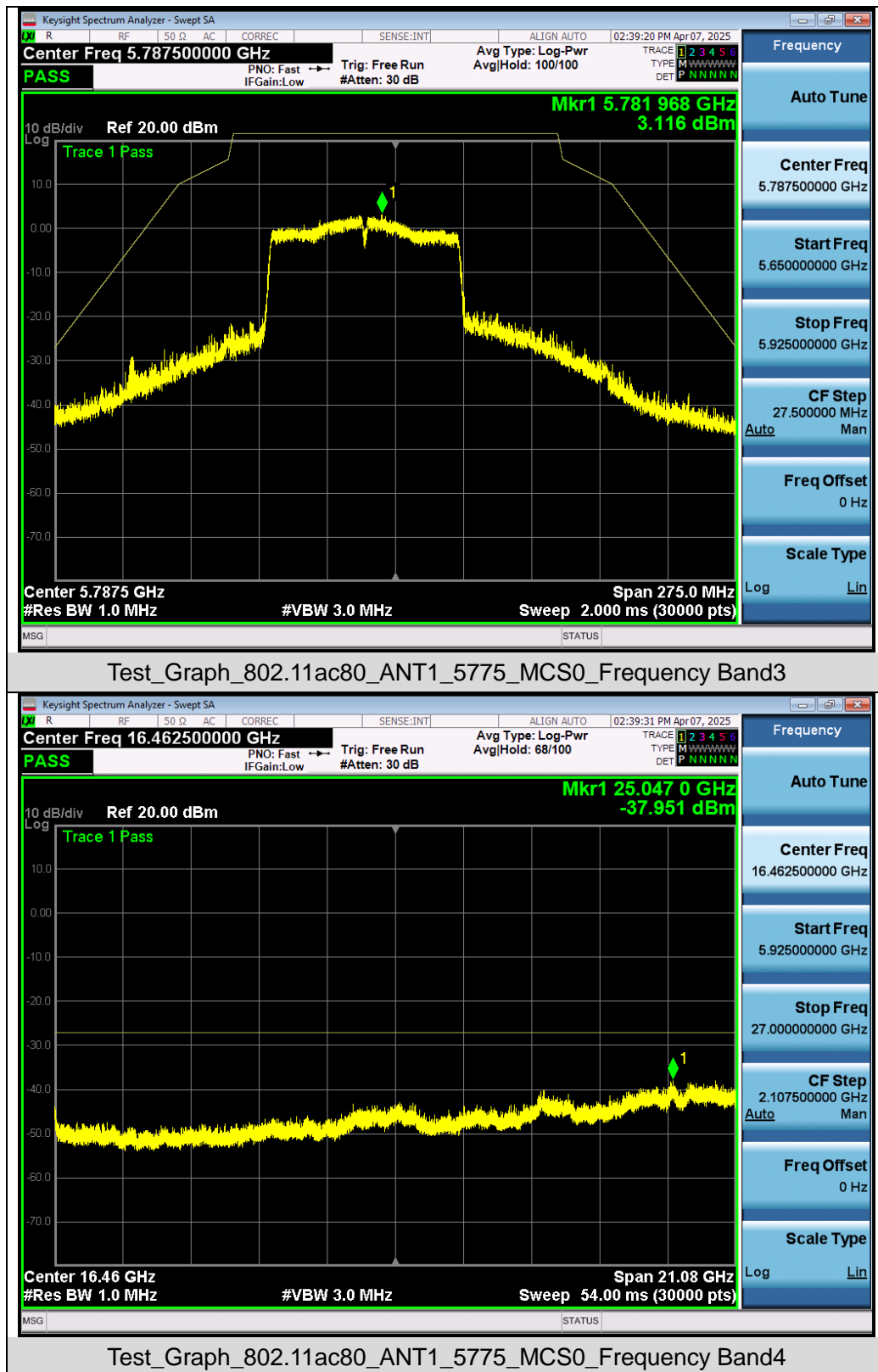
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## 11. Radiated Spurious Emission

### 11.1 Measurement Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

#### NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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.

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## 11.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.1 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.Section G)  
Unwanted emissions measurement.

◆ **Procedure for Unwanted Emissions Measurements Below 1000MHz:**

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

◆ **Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz:**

- RBW = 1 MHz
- VBW  $\geq$  3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

◆ **Procedures for Average Unwanted Emissions Measurements Above 1000MHz:**

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

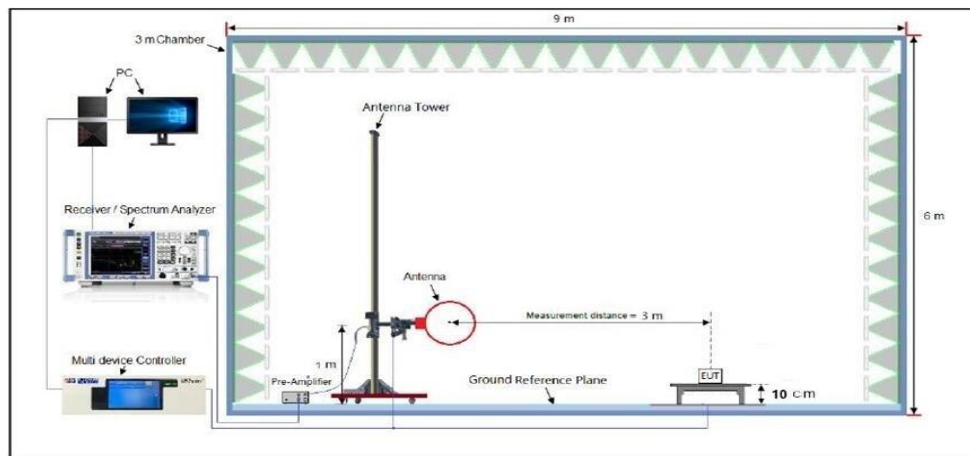
◆ **Procedures for Average Unwanted Emissions Measurements Above 1000MHz:**

- RBW = 1 MHz
- VBW = 3 MHz • Detector = power averaging (rms), set span/(# of points in sweep)  $\geq$  RBW/2.
- Averaging type = power averaging (RMS)
- The correction factor shall be offset is 10 log (1/x), where x is the duty cycle.

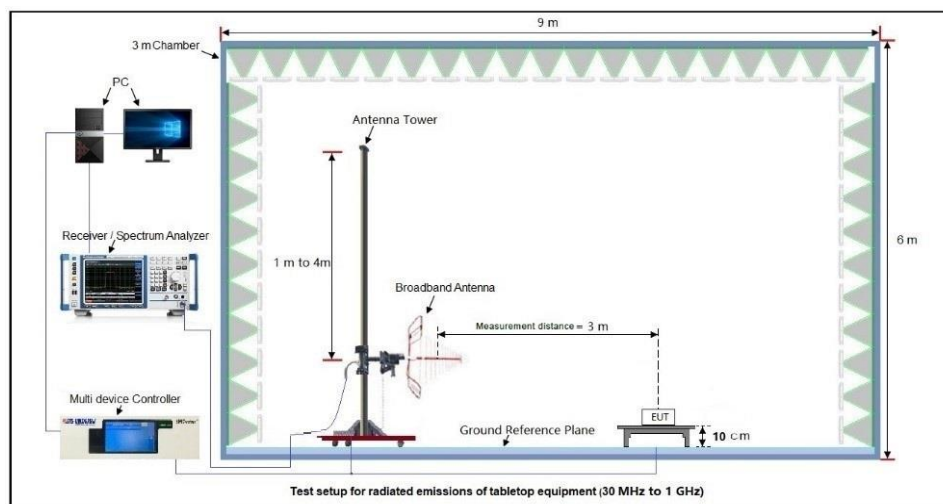
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### 11.3 Measurement Setup (Block Diagram of Configuration)

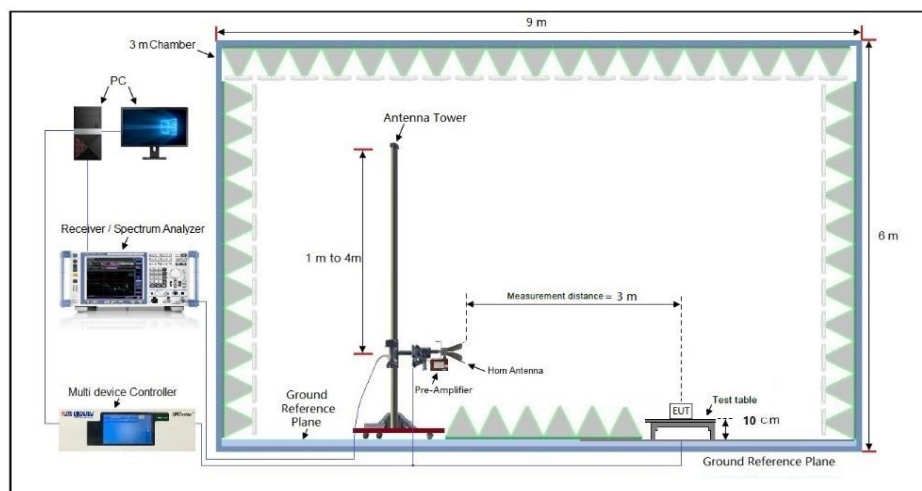
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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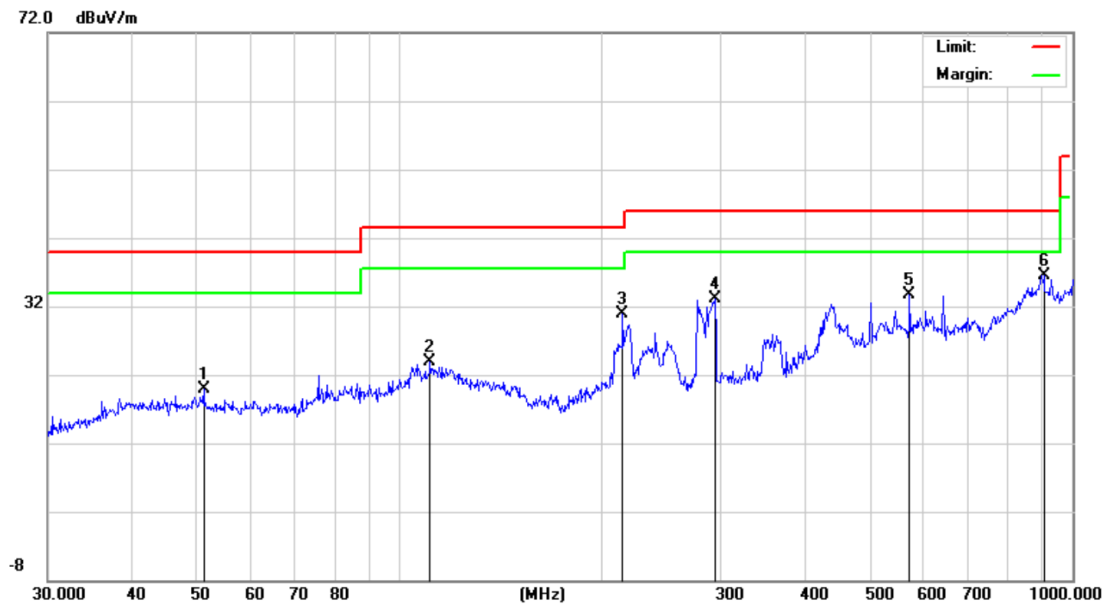
## 11.4 Measurement Result

### Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

### Radiated Emission Test Results at 30MHz-1GHz

Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Smart Mirror	Model Name	ZYU-JM320
Temperature	21.5°C	Relative Humidity	48.8%
Pressure	960hPa	Test Voltage	AC 120V 60Hz
Test Mode	802.11n(20MHz)_5180MHz	Antenna Polarity	Horizontal



### Final Data List

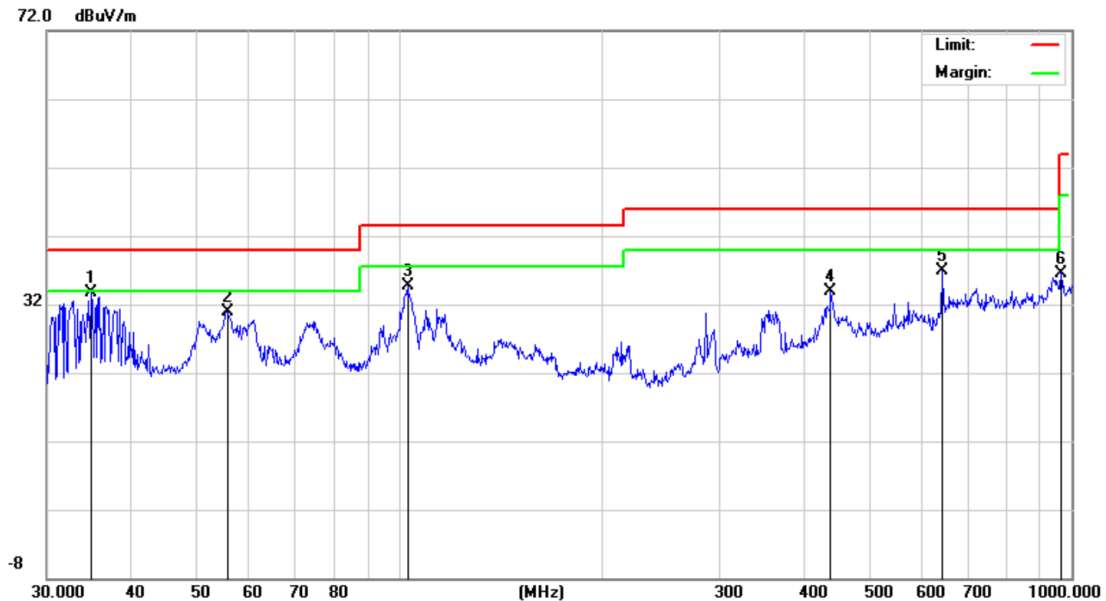
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.1209	19.84	13.12	40.00	20.16	100	160	Horizontal
2	110.9571	23.84	16.31	43.50	19.66	100	100	Horizontal
3	214.5143	30.86	14.43	43.50	12.64	100	90	Horizontal
4	294.1137	33.11	16.03	46.00	12.89	100	220	Horizontal
5	572.6144	33.65	24.26	46.00	12.35	100	120	Horizontal
6	906.4824	36.58	30.89	46.00	9.42	100	130	Horizontal

### Result: Pass

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### Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Smart Mirror	Model Name	ZYU-JM320
Temperature	21.5℃	Relative Humidity	48.8%
Pressure	960hPa	Test Voltage	AC 120V 60Hz
Test Mode	802.11n(20MHz)_5180MHz	Antenna Polarity	Vertical



### Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8823	33.76	15.21	40.00	6.24	100	150	Vertical
2	55.6094	30.89	17.06	40.00	9.11	100	170	Vertical
3	103.0800	34.71	14.74	43.50	8.79	100	90	Vertical
4	438.6554	33.91	25.88	46.00	12.09	100	190	Vertical
5	642.8613	36.86	26.39	46.00	9.14	100	100	Vertical
6	965.5421	36.60	29.95	54.00	17.4	100	140	Vertical

### Result: Pass

#### Note:

- Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin=Measurement-Limit.
- All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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### Radiated Emissions Test Results Above 1GHz

<b>EUT Name</b>	Smart Mirror	<b>Model Name</b>	ZYU-JM320
<b>Temperature</b>	21.5°C	<b>Relative Humidity</b>	48.8%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	AC 120V 60Hz
<b>Test Mode</b>	802.11n20_5180MHz	<b>Antenna</b>	Horizontal/Vertical

### Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.91	9.14	56.05	68.20	-12.15	peak
15540.063	36.44	10.22	46.66	74.00	-27.34	peak
15540.063	40.96	10.22	51.18	54.00	-2.82	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

### Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.02	9.14	55.16	68.20	-13.04	peak
15540.063	36.92	10.22	47.14	74.00	-26.86	peak
15540.063	40.45	10.22	50.67	54.00	-3.33	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**Result: Pass**

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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



### Radiated Emissions Test Results Above 1GHz

<b>EUT Name</b>	Smart Mirror	<b>Model Name</b>	ZYU-JM320
<b>Temperature</b>	21.5°C	<b>Relative Humidity</b>	48.8%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	AC 120V 60Hz
<b>Test Mode</b>	802.11n20_5200MHz	<b>Antenna</b>	Horizontal/Vertical

### Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.44	9.14	55.58	68.20	-12.62	peak
15600.063	36.92	10.22	47.14	74.00	-26.86	peak
15600.063	40.75	10.22	50.97	54.00	-3.03	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

### Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.83	9.14	55.97	68.20	-12.23	peak
15600.063	36.12	10.22	46.34	74.00	-27.66	peak
15600.063	40.52	10.22	50.74	54.00	-3.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**Result: Pass**

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### Radiated Emissions Test Results Above 1GHz

<b>EUT Name</b>	Smart Mirror	<b>Model Name</b>	ZYU-JM320
<b>Temperature</b>	21.5°C	<b>Relative Humidity</b>	48.8%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	AC 120V 60Hz
<b>Test Mode</b>	802.11n20_5240MHz	<b>Antenna</b>	Horizontal/Vertical

### Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	46.56	9.14	55.70	68.20	-12.50	peak
15720.063	36.66	10.22	46.88	74.00	-27.12	peak
15720.063	40.42	10.22	50.64	54.00	-3.36	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

### Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	46.00	9.14	55.14	68.20	-13.06	peak
15720.063	36.97	10.22	47.19	74.00	-26.81	peak
15720.063	40.83	10.22	51.05	54.00	-2.95	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**Result: Pass**

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### Radiated Emissions Test Results Above 1GHz

<b>EUT Name</b>	Smart Mirror	<b>Model Name</b>	ZYU-JM320
<b>Temperature</b>	21.5°C	<b>Relative Humidity</b>	48.8%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	AC 120V 60Hz
<b>Test Mode</b>	802.11n20_5260MHz	<b>Antenna</b>	Horizontal/Vertical

### Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.022	46.07	9.14	55.21	68.20	-12.99	peak
15780.054	36.87	10.22	47.09	74.00	-26.91	peak
15780.054	40.48	10.22	50.70	54.00	-3.30	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

### Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.022	46.75	9.14	55.89	68.20	-12.31	peak
15780.054	36.18	10.22	46.40	74.00	-27.60	peak
15780.054	40.09	10.22	50.31	54.00	-3.69	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**Result: Pass**

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