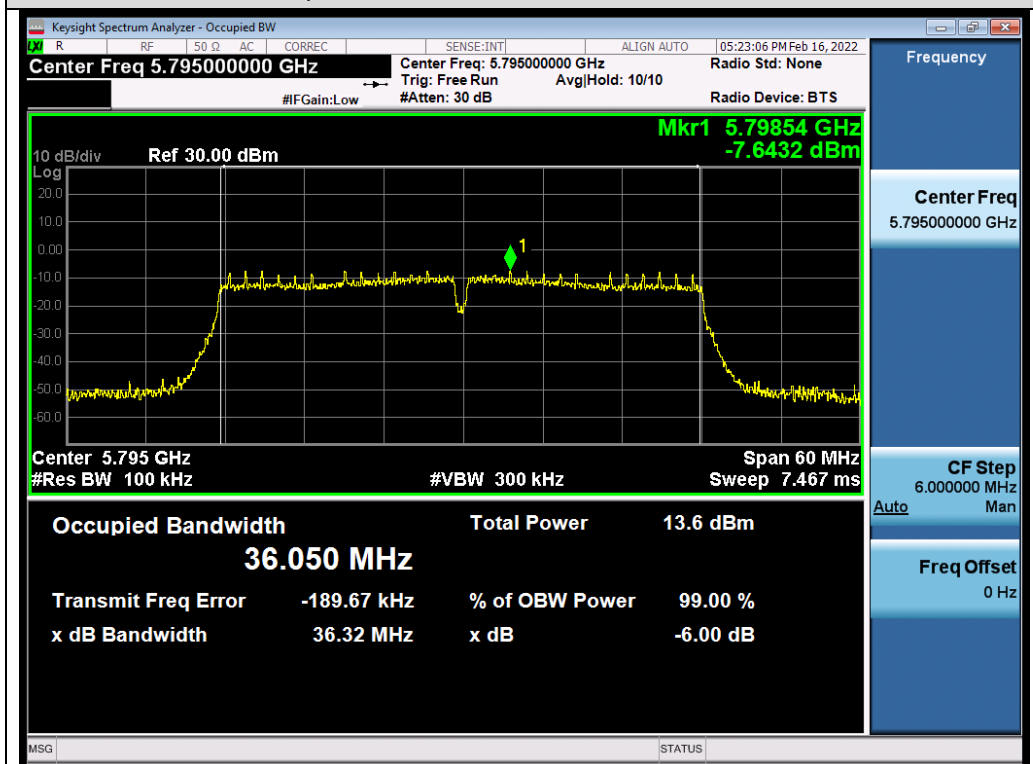


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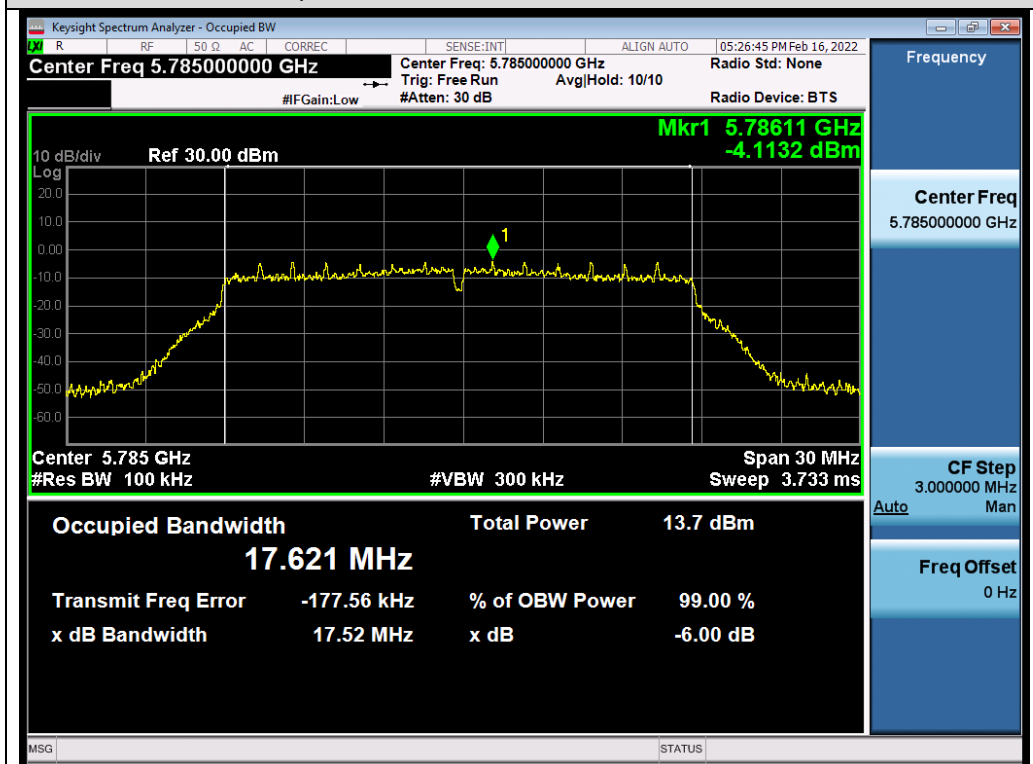
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Test\_Graph\_802.11ac20\_ANT1\_5745\_MCS0\_DTSBW



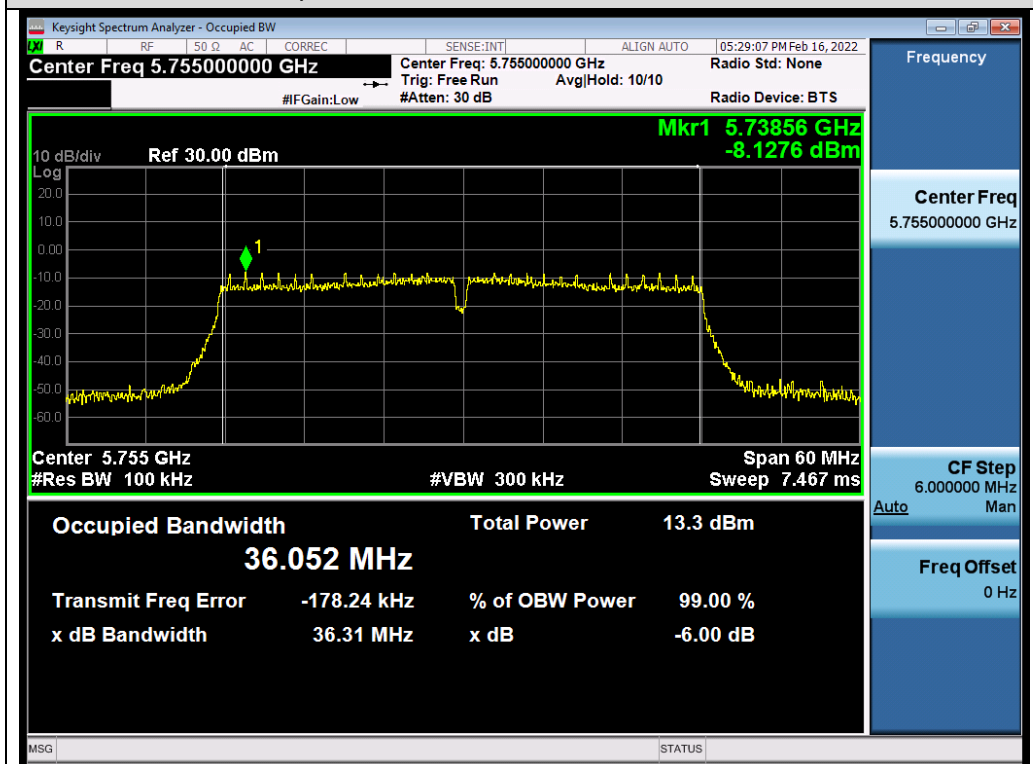
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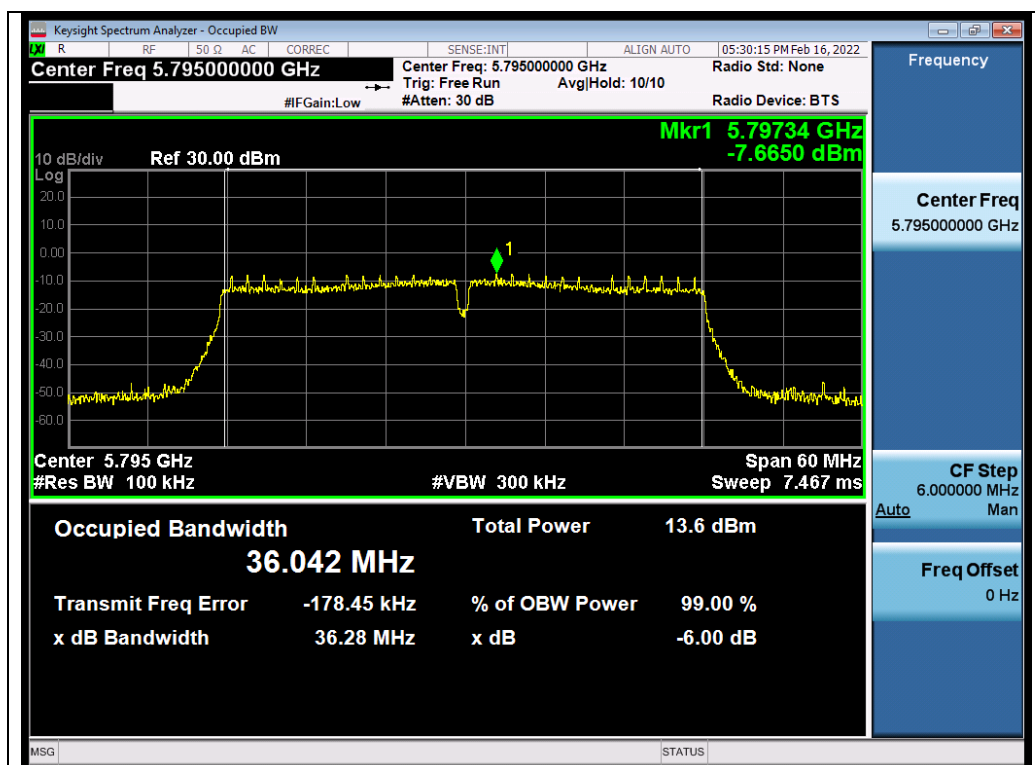
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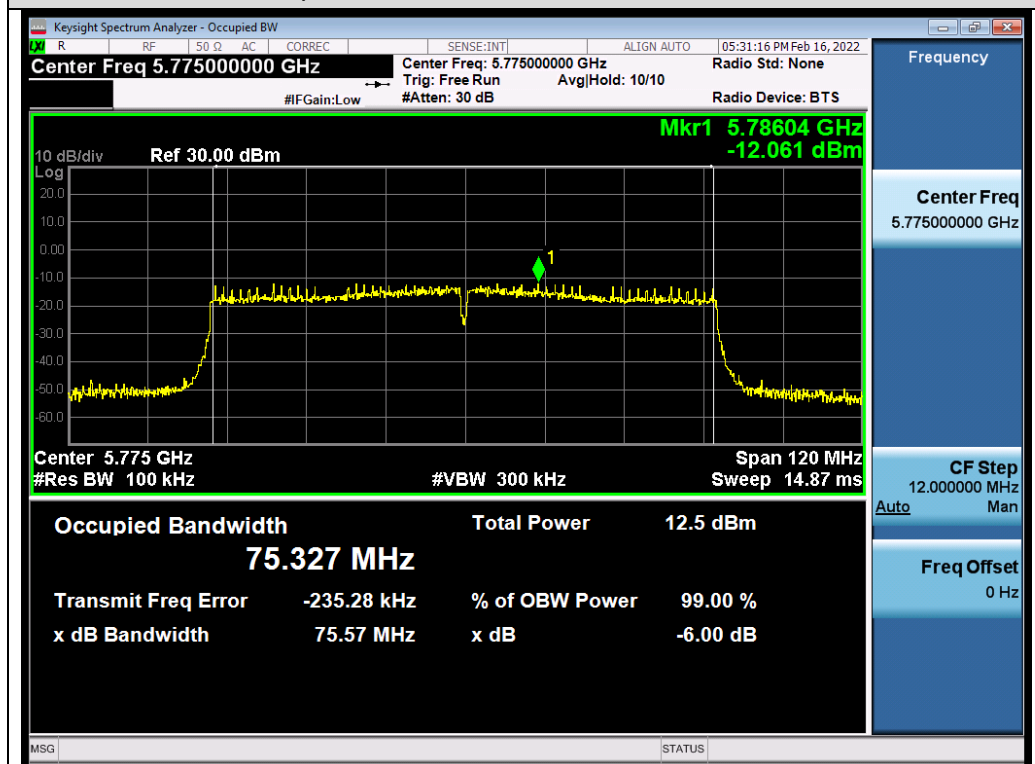
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Test\_Graph\_802.11ac40\_ANT1\_5795\_MCS9\_DTSBW



Test\_Graph\_802.11ac80\_ANT1\_5775\_MCS9\_DTSBW

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## 9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

### 9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

### 9.4. LIMITS AND 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	-0.861	11	Pass
	5200	-1.125	11	Pass
	5240	-0.695	11	Pass
802.11n20	5180	-1.614	11	Pass
	5200	-1.607	11	Pass
	5240	-1.309	11	Pass
802.11n40	5190	-4.389	11	Pass
	5230	-3.889	11	Pass
802.11ac20	5180	-1.585	11	Pass
	5200	-1.559	11	Pass
	5240	-1.521	11	Pass
802.11ac40	5190	-4.243	11	Pass
	5230	-4.114	11	Pass
802.11ac80	5210	-7.129	11	Pass

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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	-0.768	11	Pass
	5300	-0.537	11	Pass
	5320	-0.323	11	Pass
802.11n20	5260	-1.278	11	Pass
	5300	-1.125	11	Pass
	5320	-0.909	11	Pass
802.11n40	5270	-3.857	11	Pass
	5310	-3.605	11	Pass
802.11ac20	5260	-0.989	11	Pass
	5300	-0.963	11	Pass
	5320	-0.894	11	Pass
802.11ac40	5270	-3.734	11	Pass
	5310	-3.368	11	Pass
802.11ac80	5290	-6.542	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	-4.006	2.984	30	Pass
	5785	-3.274	3.716	30	Pass
	5825	-3.320	3.670	30	Pass
802.11n20	5745	-4.680	2.310	30	Pass
	5785	-4.409	2.581	30	Pass
	5825	-3.994	2.996	30	Pass
802.11n40	5755	-7.007	-0.017	30	Pass
	5795	-7.080	-0.09	30	Pass
802.11ac20	5745	-4.457	2.533	30	Pass
	5785	-4.226	2.764	30	Pass
	5825	-4.169	2.821	30	Pass
802.11ac40	5755	-7.249	-0.259	30	Pass
	5795	-7.249	-0.259	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



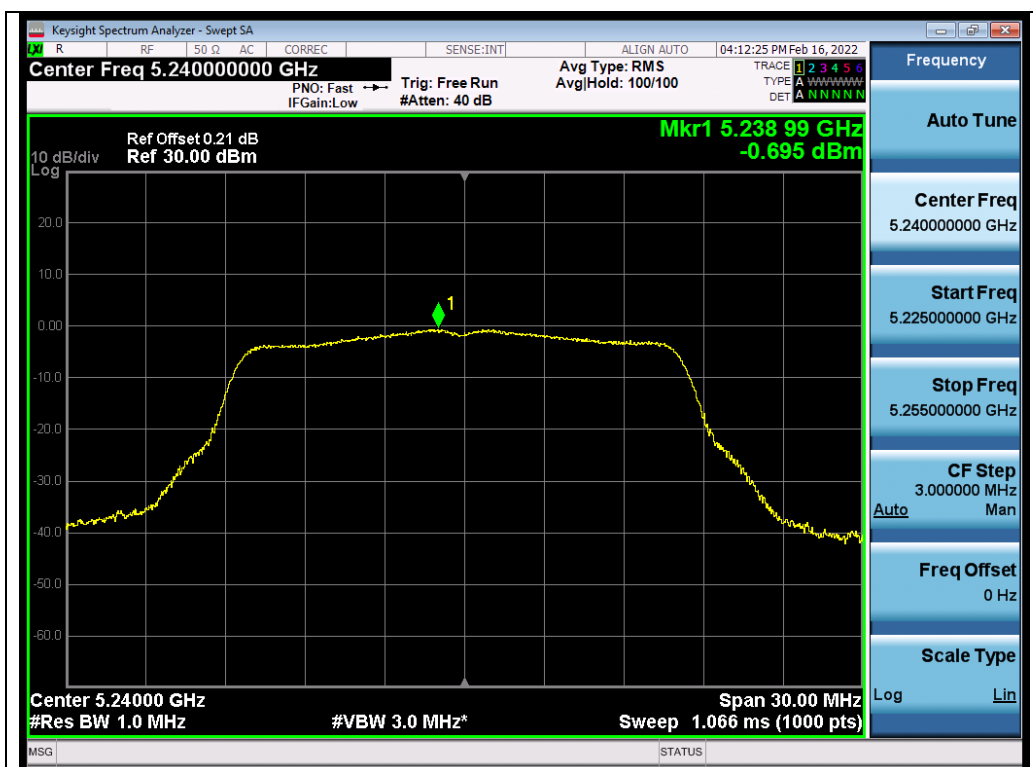
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Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_PSD

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Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_PSD



Test\_Graph\_802.11n20\_ANT1\_5180\_MCS0\_PSD

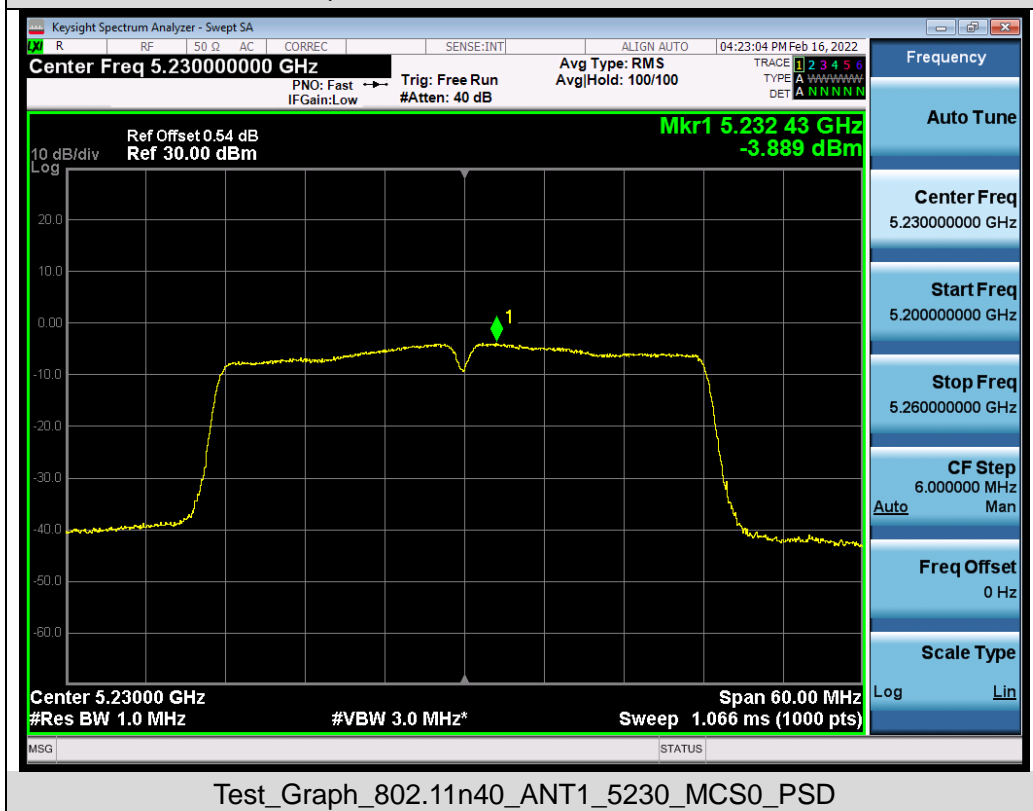
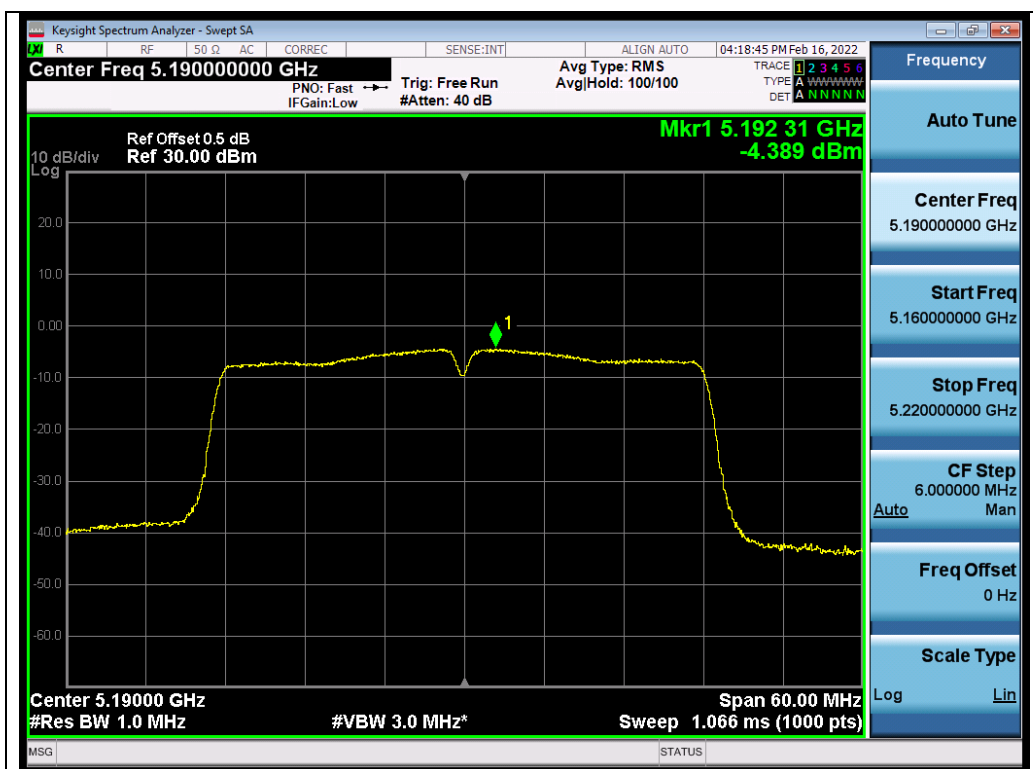
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Test\_Graph\_802.11ac20\_ANT1\_5200\_MCS0\_PSD

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Test\_Graph\_802.11ac20\_ANT1\_5240\_MCS9\_PSD



Test\_Graph\_802.11ac40\_ANT1\_5190\_MCS9\_PSD

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Test\_Graph\_802.11ac40\_ANT1\_5230\_MCS9\_PSD



Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_PSD

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



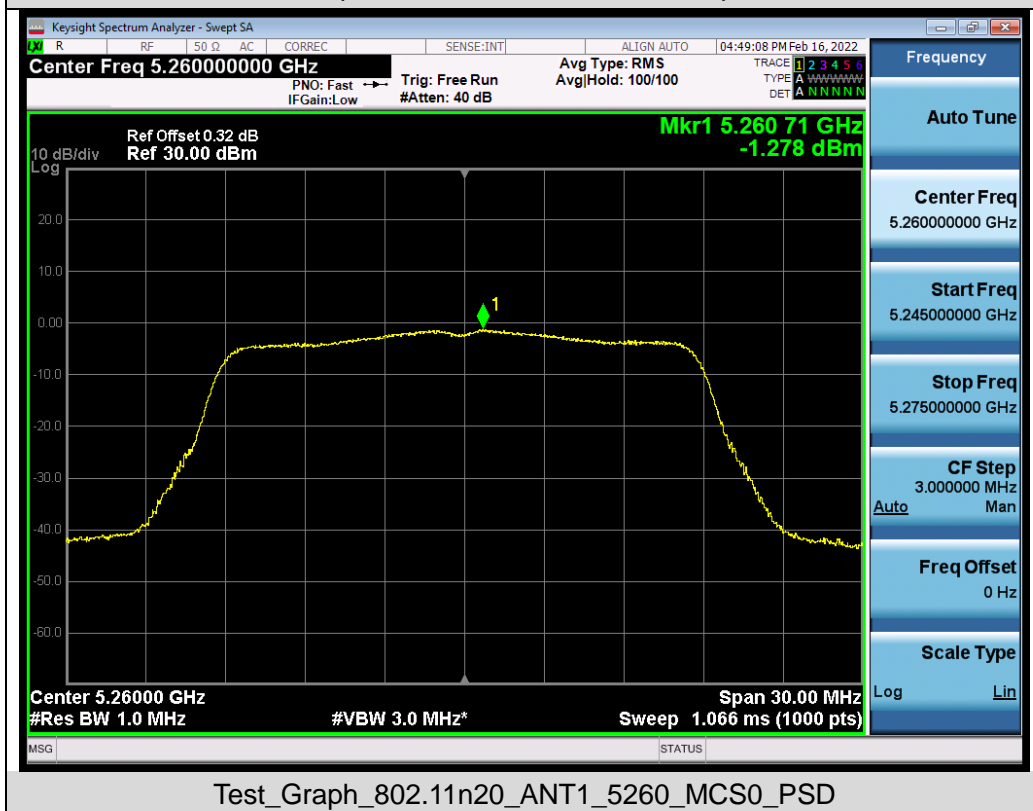
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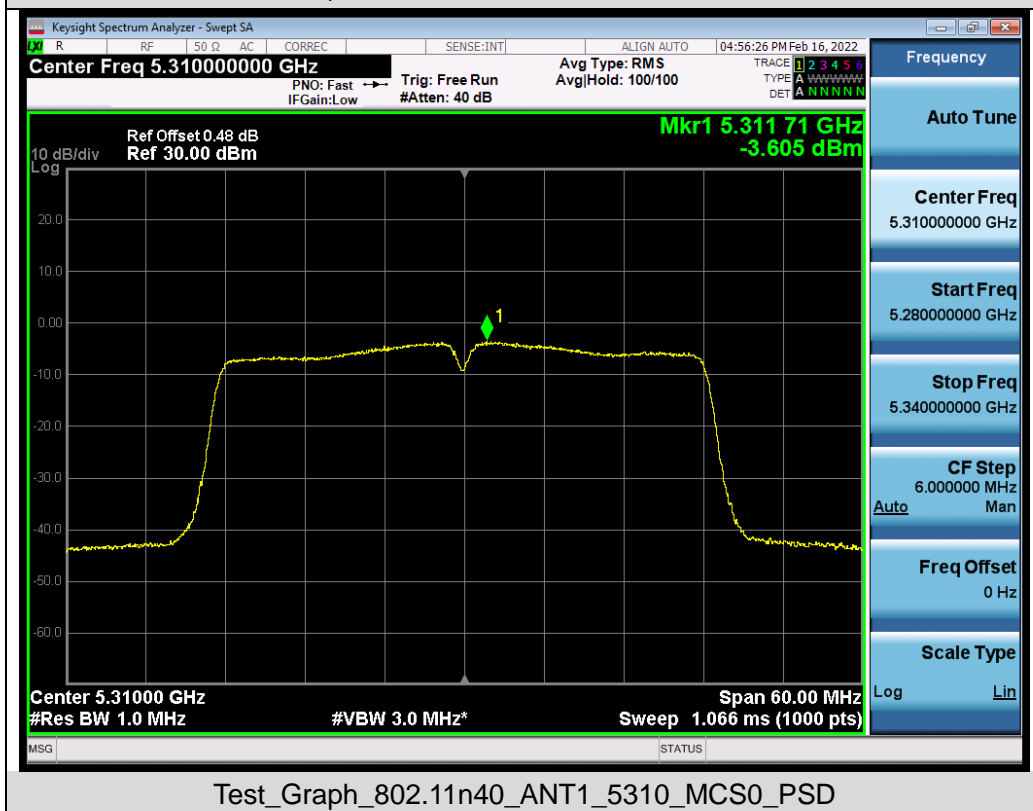
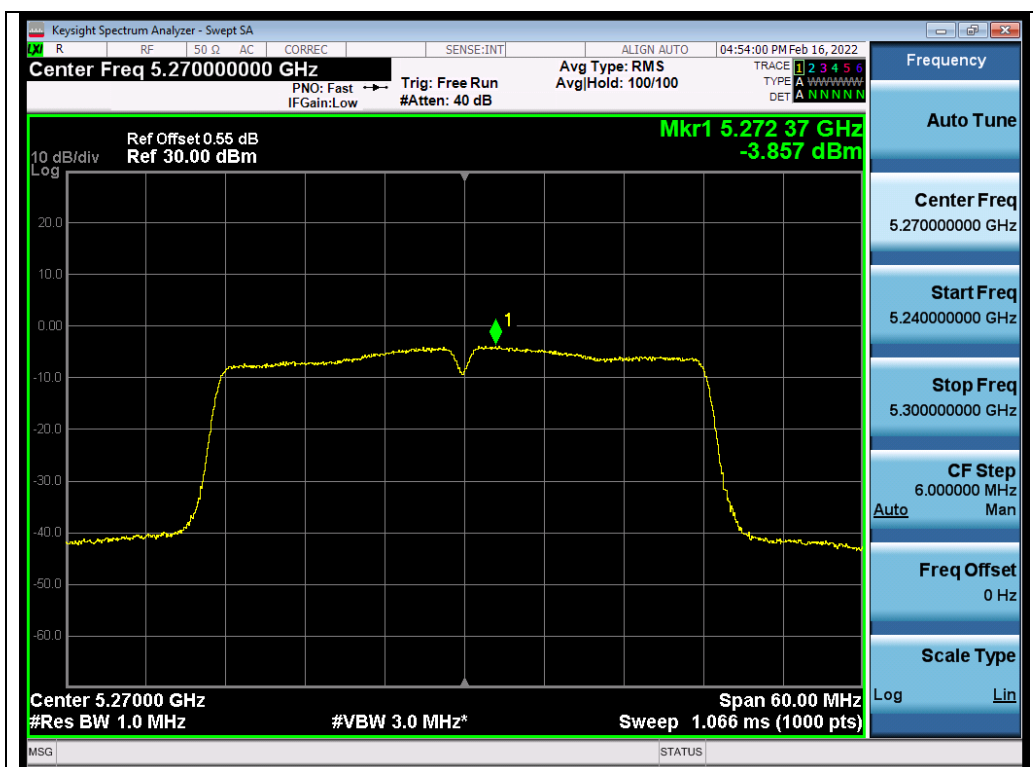
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Test\_Graph\_802.11ac20\_ANT1\_5260\_MCS0\_PSD



Test\_Graph\_802.11ac20\_ANT1\_5300\_MCS0\_PSD

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Test\_Graph\_802.11ac20\_ANT1\_5320\_MCS9\_PSD



Test\_Graph\_802.11ac40\_ANT1\_5270\_MCS9\_PSD

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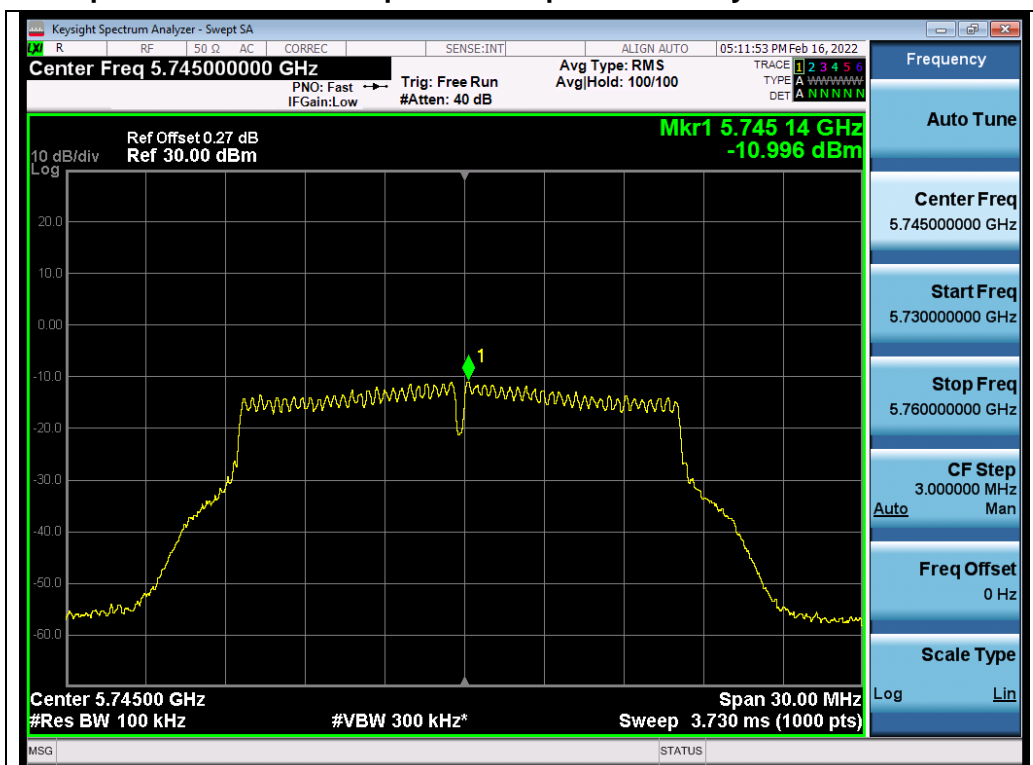
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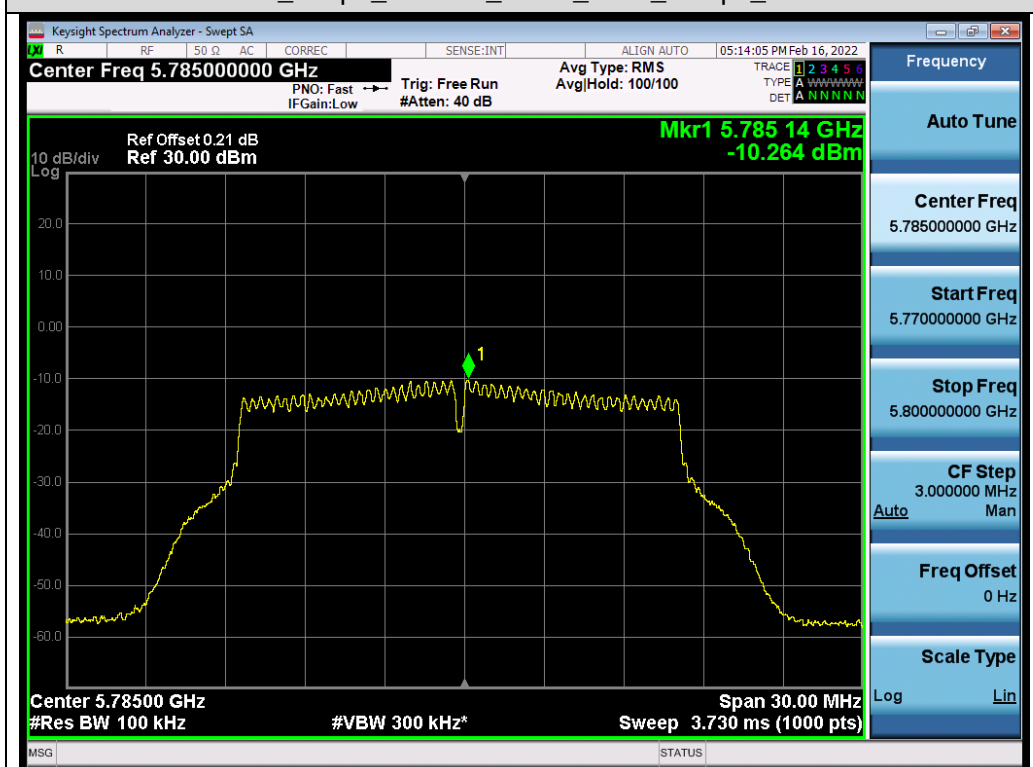
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## Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



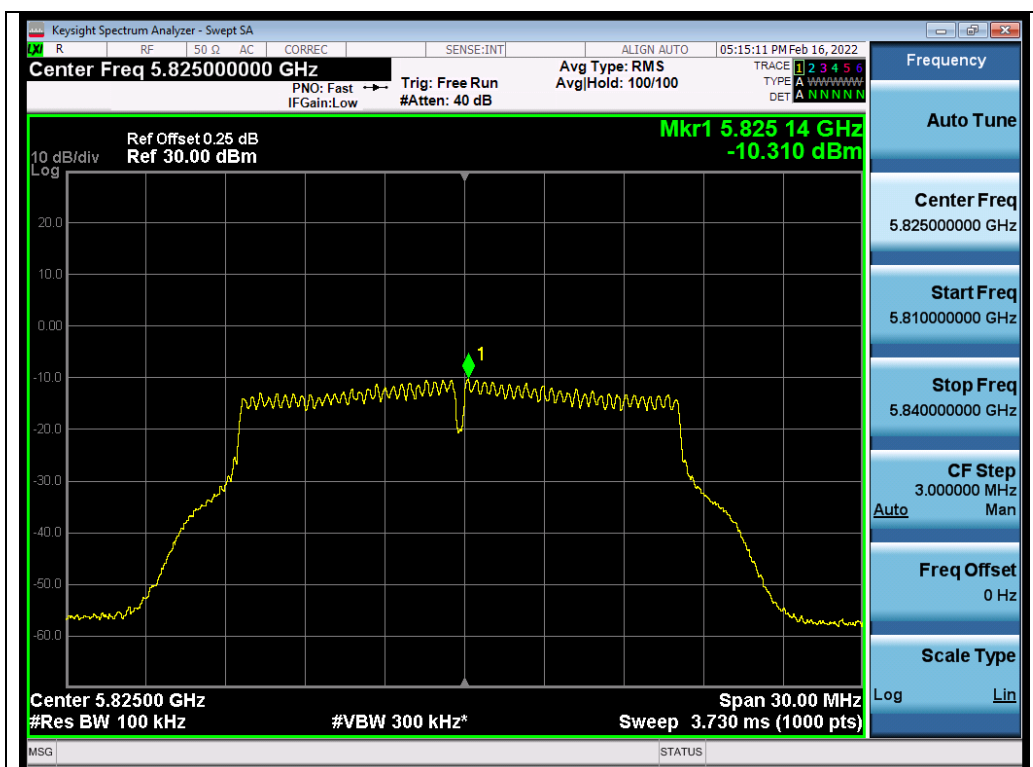
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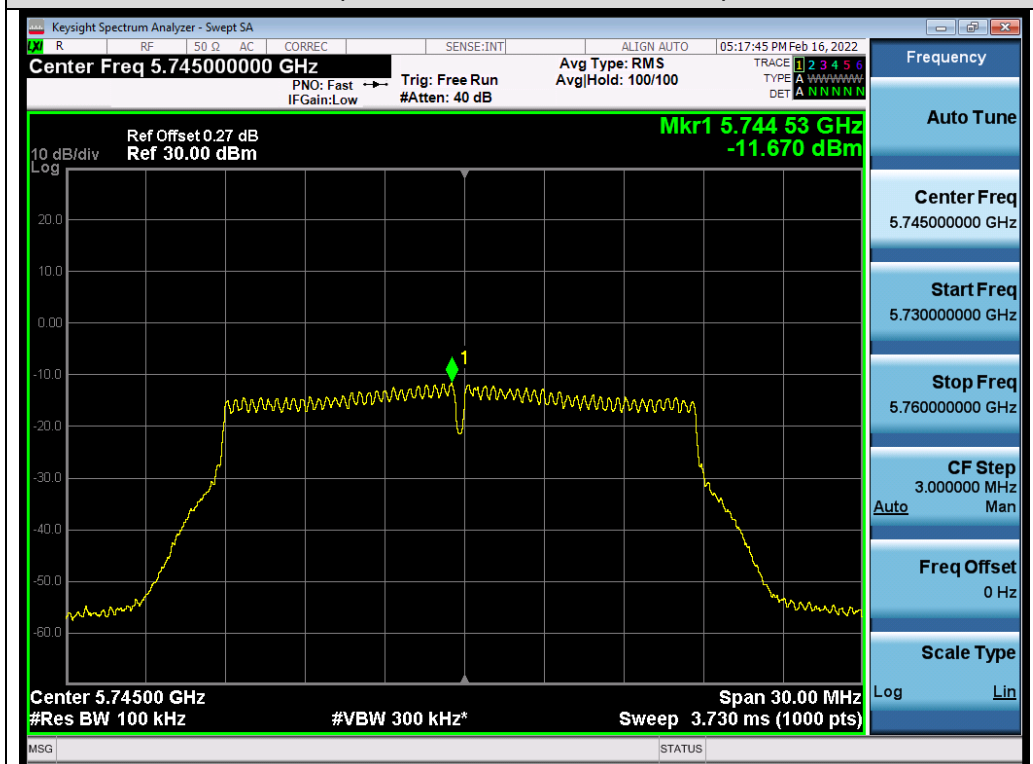
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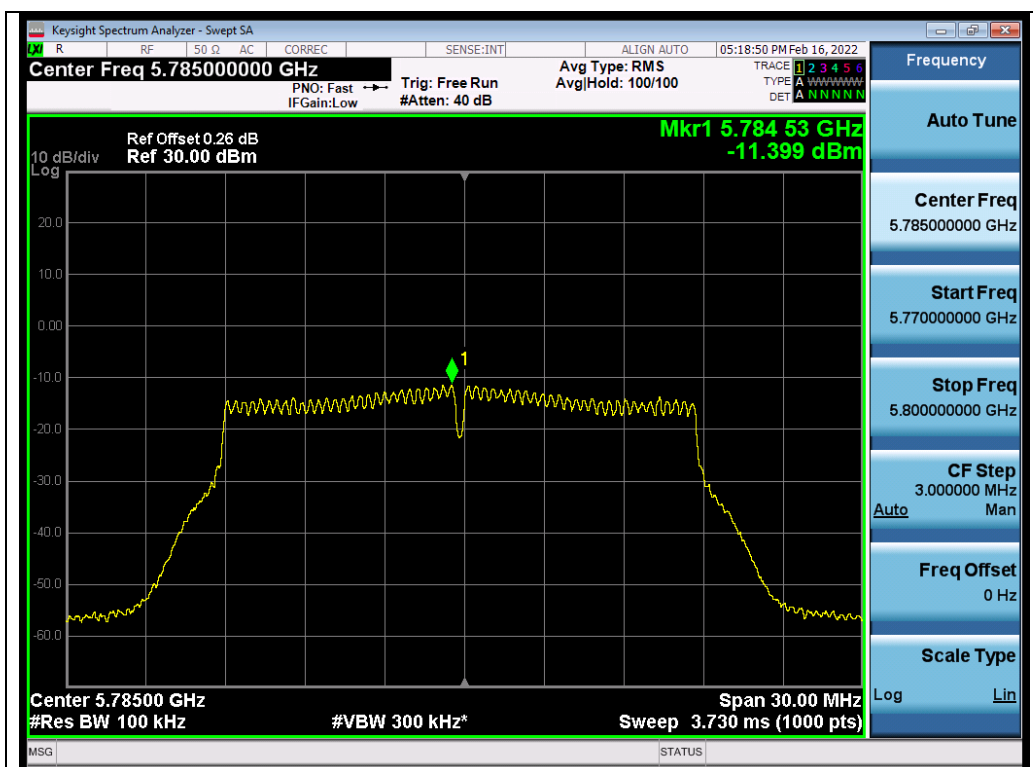
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Test\_Graph\_802.11n20\_ANT1\_5745\_MCS0\_PSD

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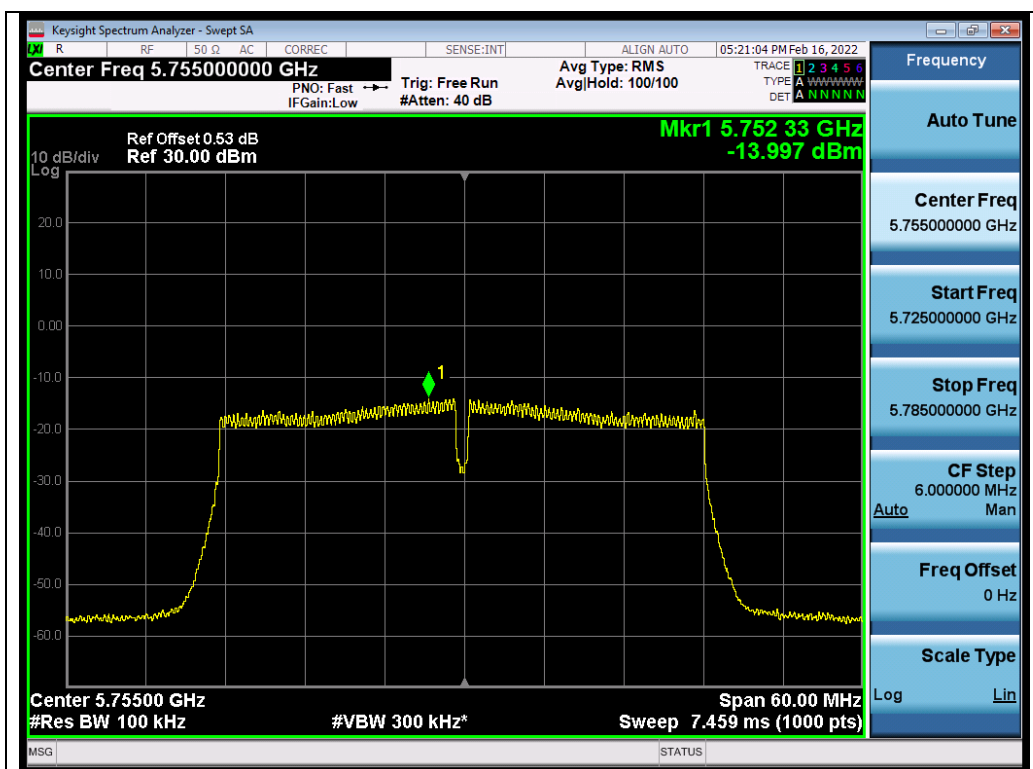
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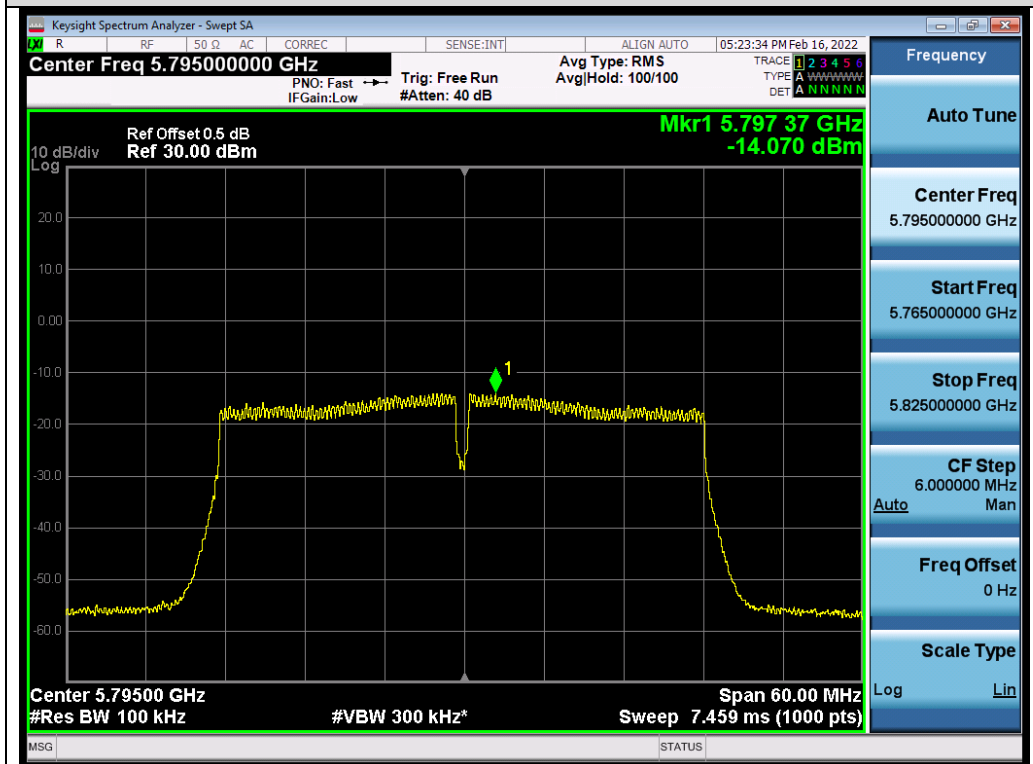
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Test\_Graph\_802.11n40\_ANT1\_5755\_MCS0\_PSD



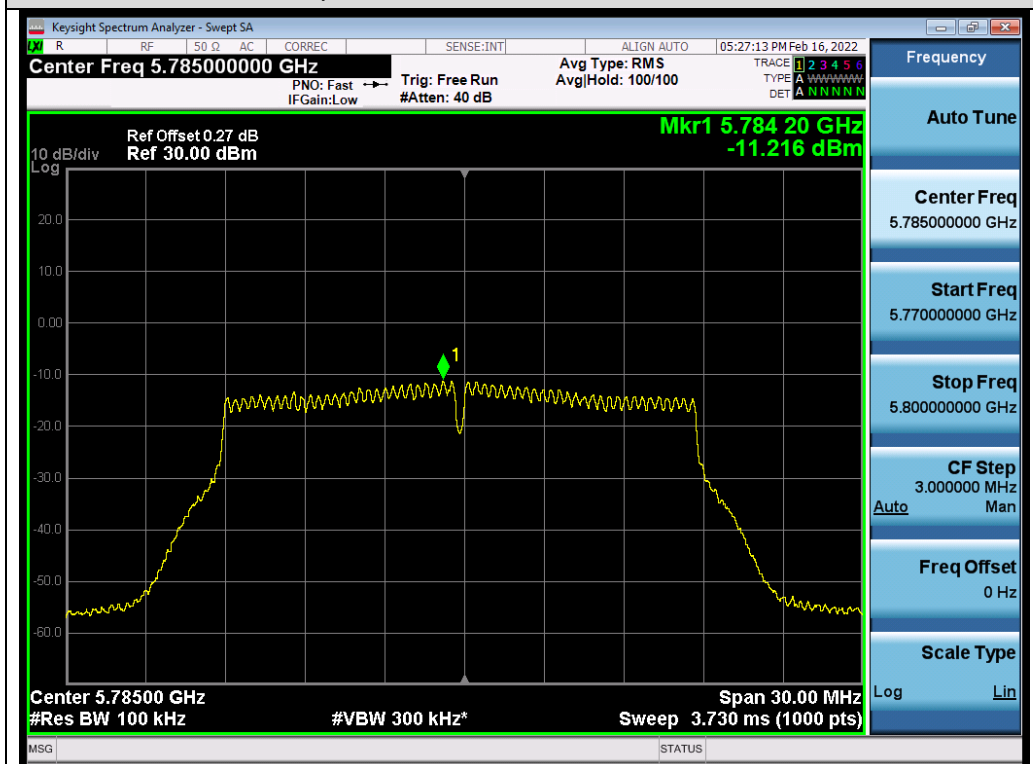
Test\_Graph\_802.11n40\_ANT1\_5795\_MCS0\_PSD

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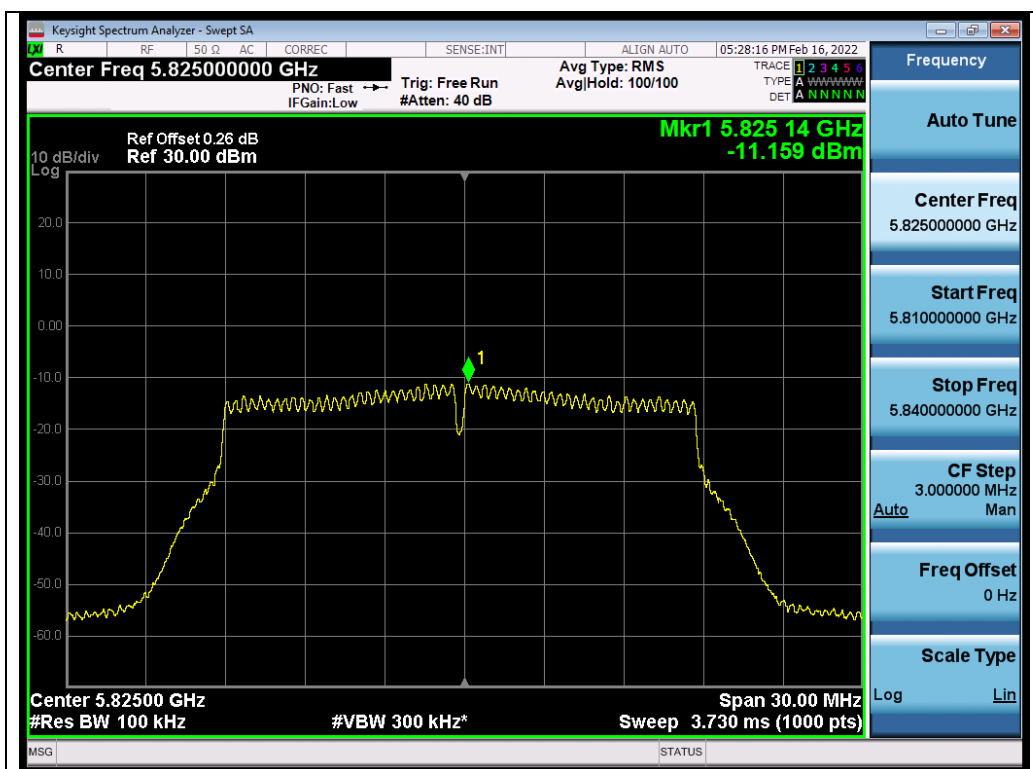
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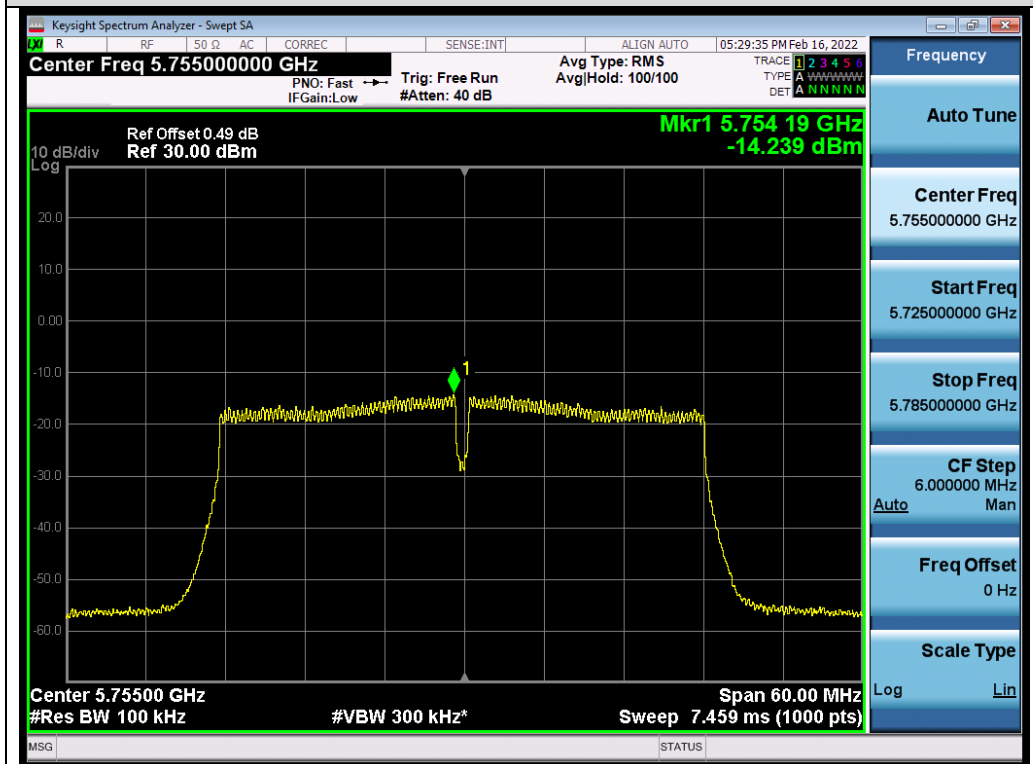
Test\_Graph\_802.11ac20\_ANT1\_5785\_MCS0\_PSD

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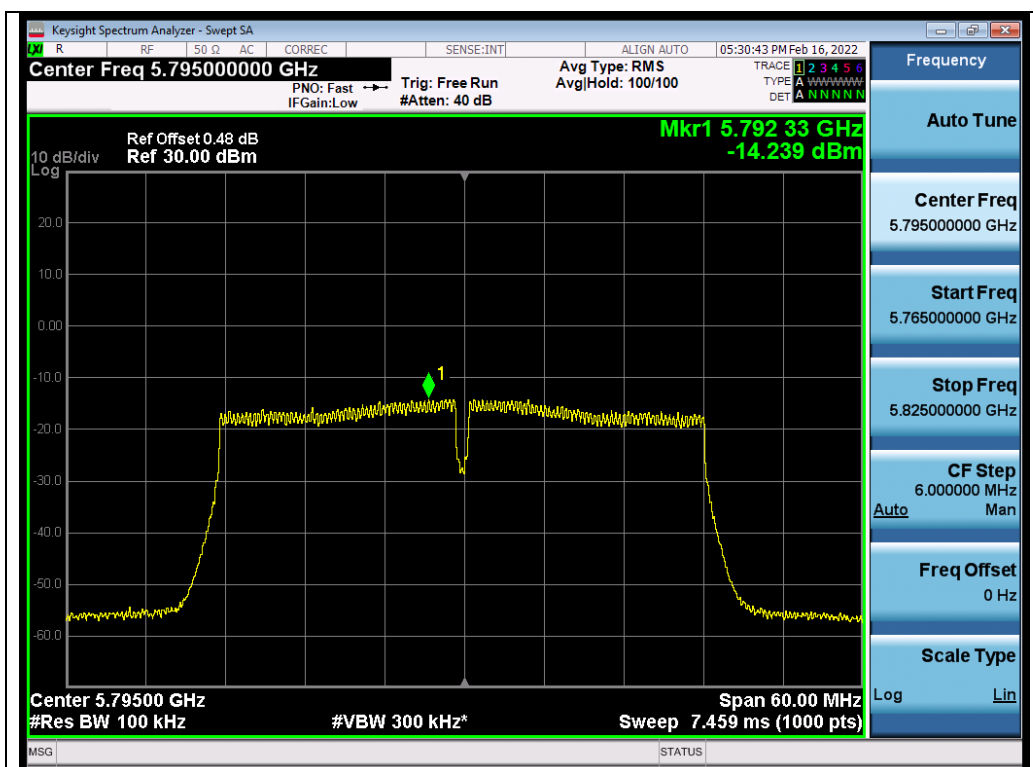
Test\_Graph\_802.11ac20\_ANT1\_5825\_MCS9\_PSD



Test\_Graph\_802.11ac40\_ANT1\_5755\_MCS9\_PSD

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Test\_Graph\_802.11ac40\_ANT1\_5795\_MCS9\_PSD



Test\_Graph\_802.11ac80\_ANT1\_5775\_MCS9\_PSD

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## 10. CONDUCTED SPURIOUS EMISSION

### 10.1. 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 SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

### 10.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

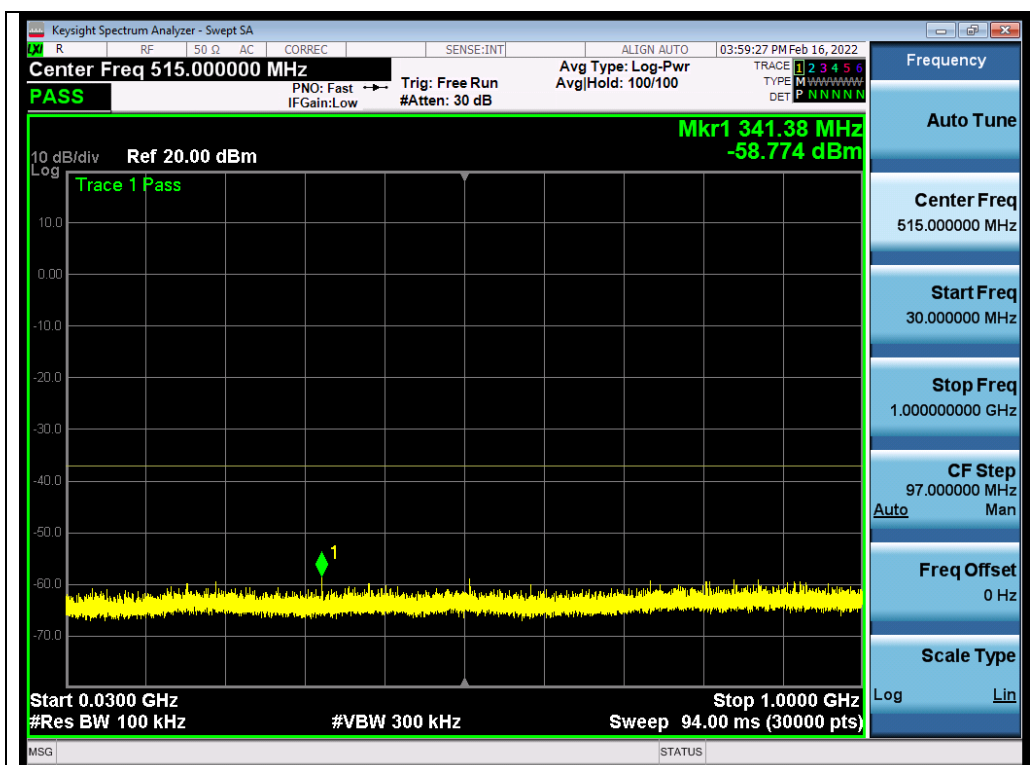
### 10.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteri a
-27dBm/MHz	5150MHz-5250MHz	PASS
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.	5725MHz-5850MHz	PASS

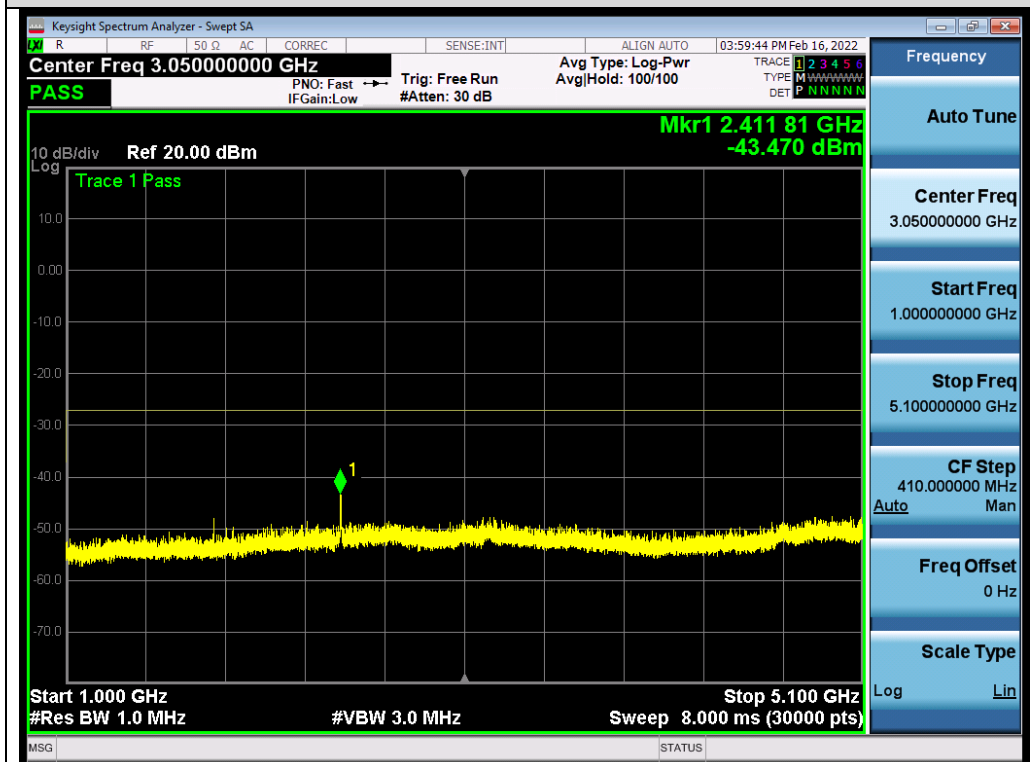
Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.



## 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

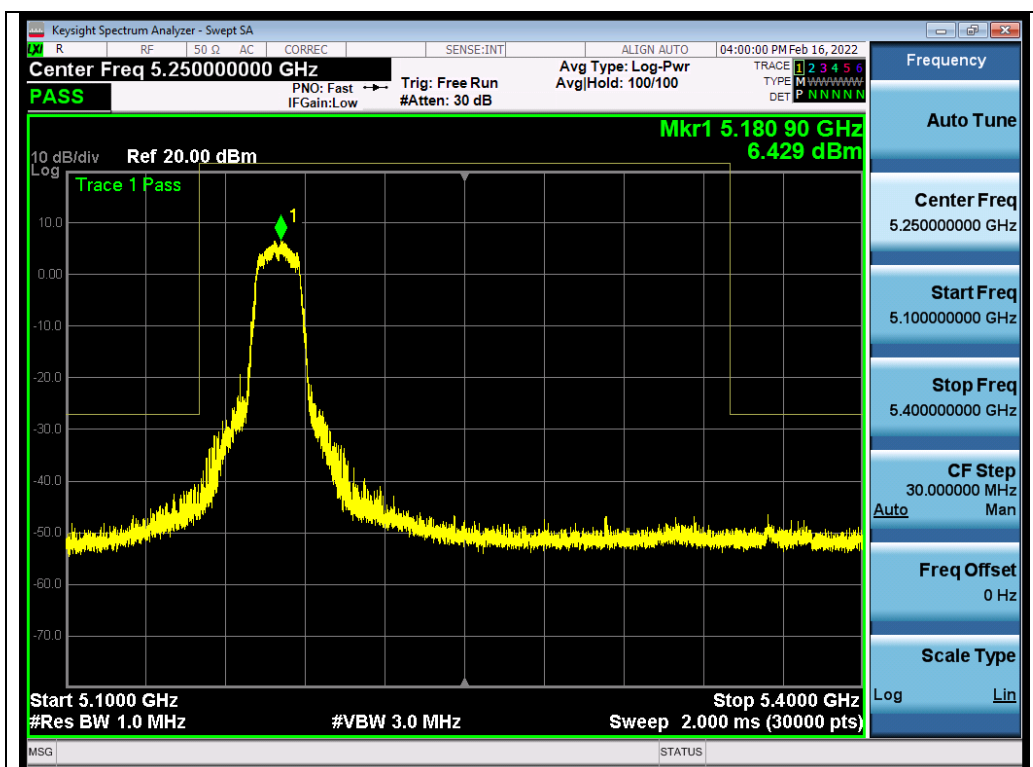


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 1



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 2

Any report having not been stamped with the "AGC Test Report Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



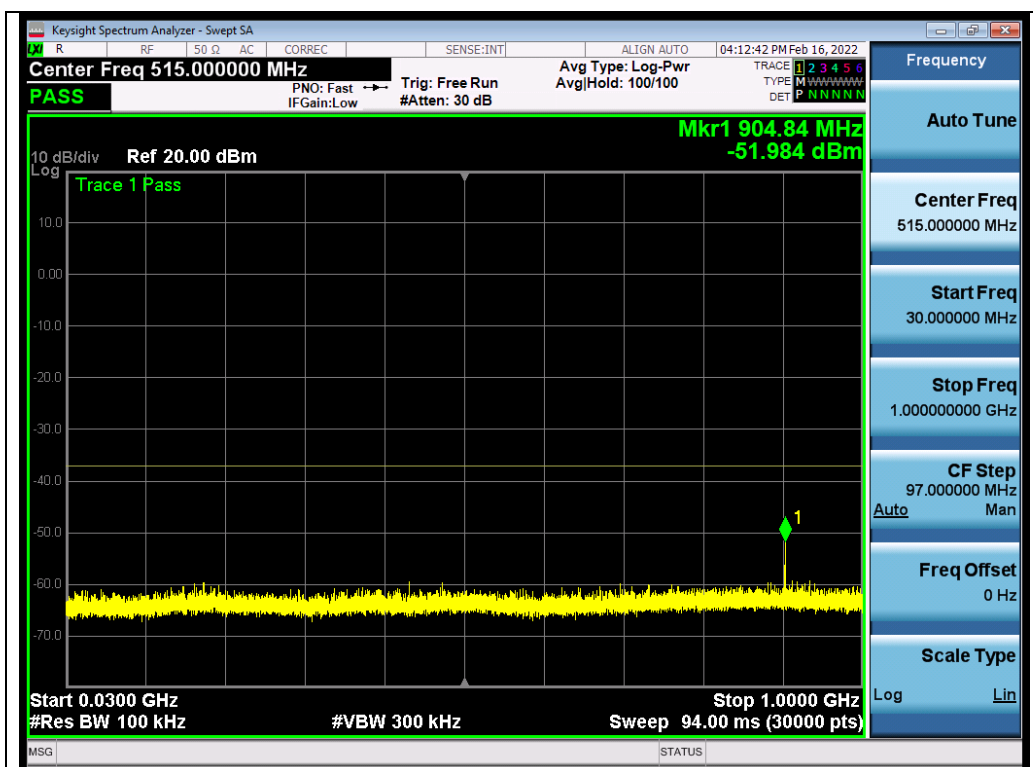
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 3



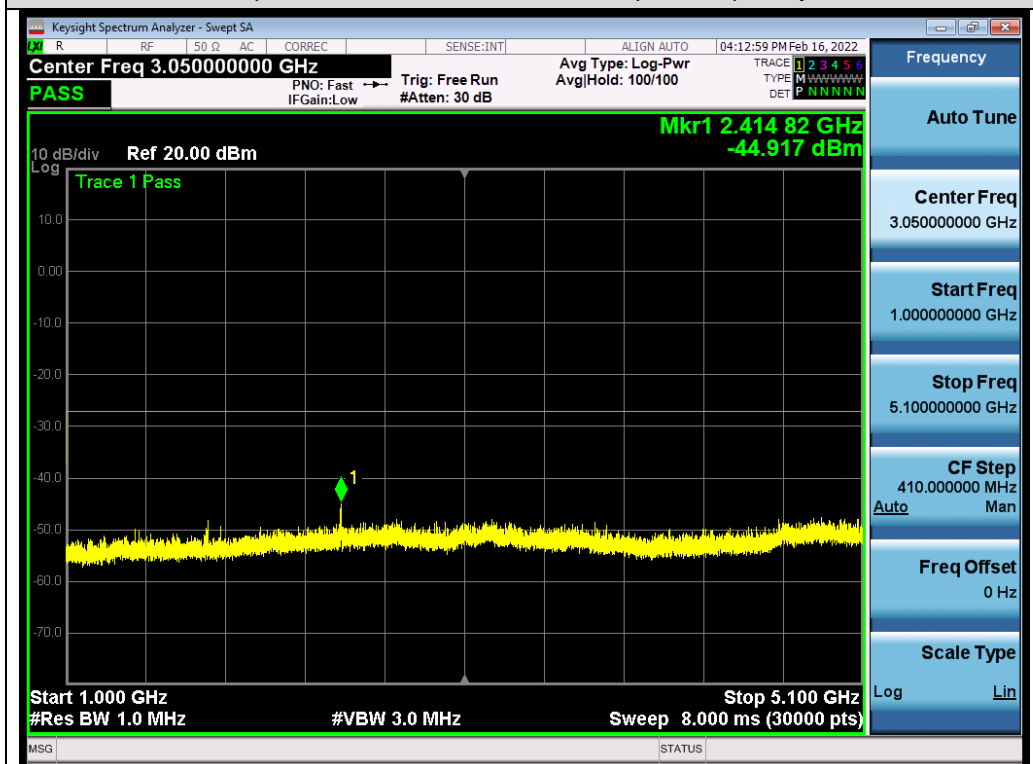
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 4

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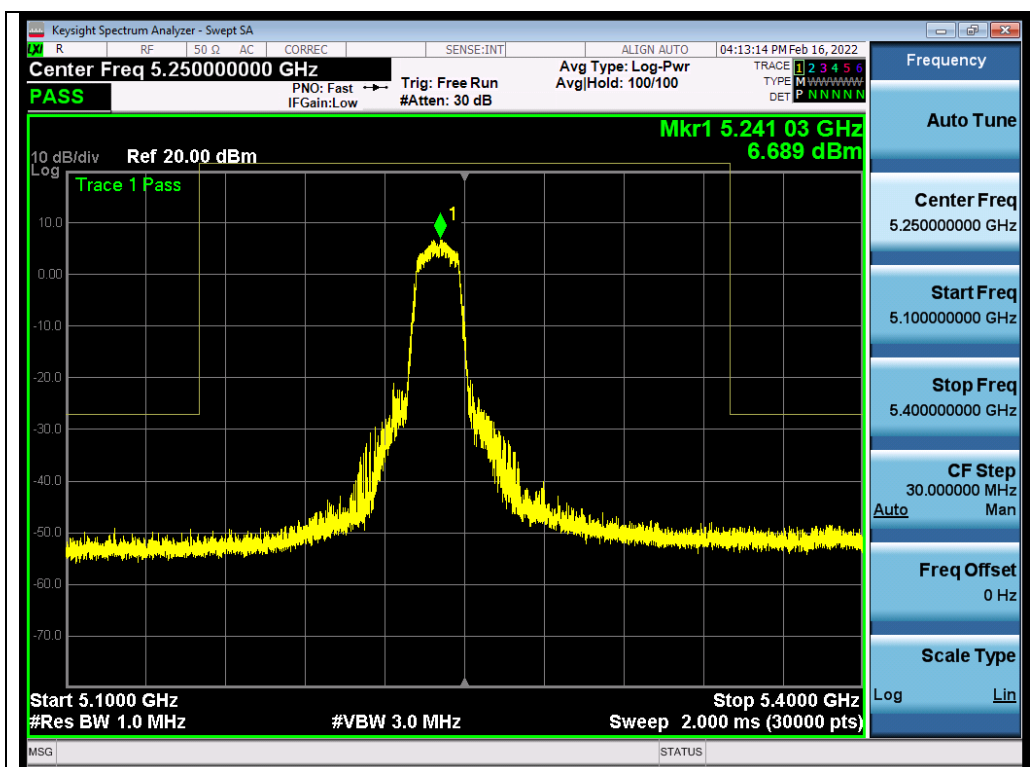
Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 1



Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 2

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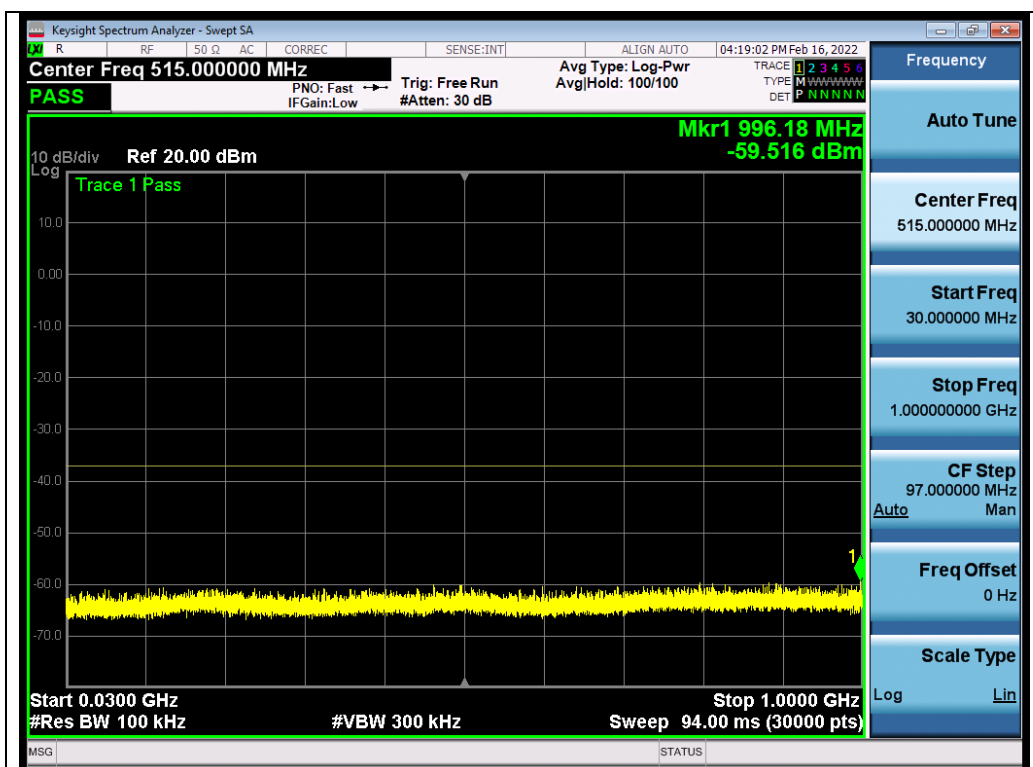
Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 3



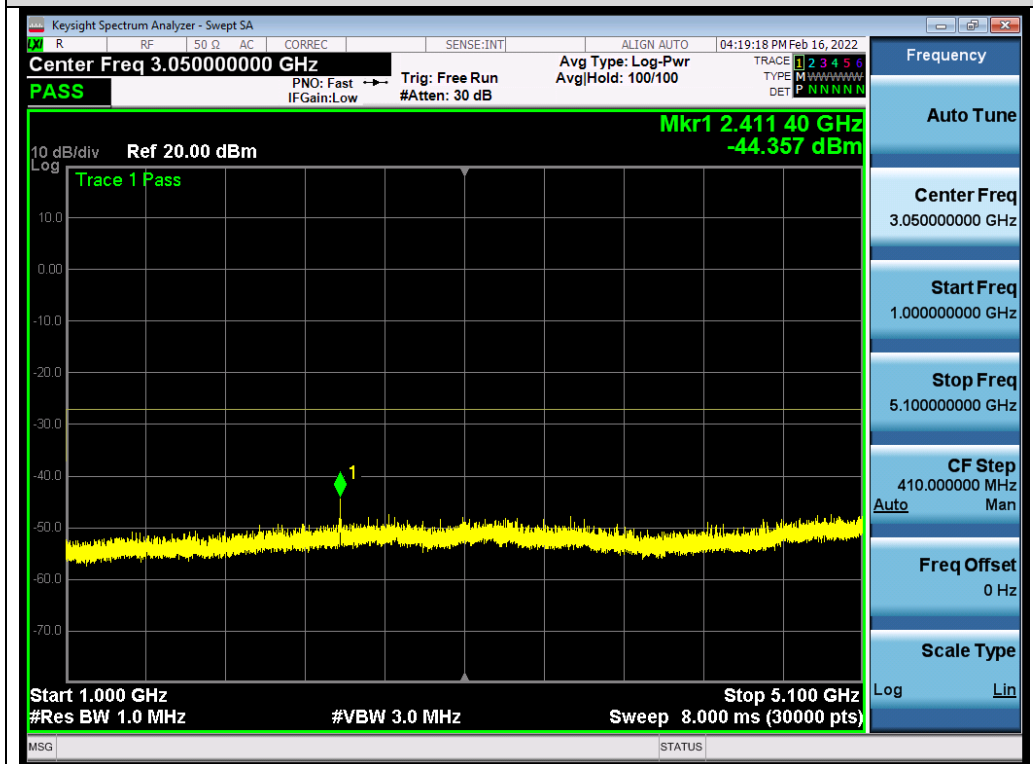
Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 4

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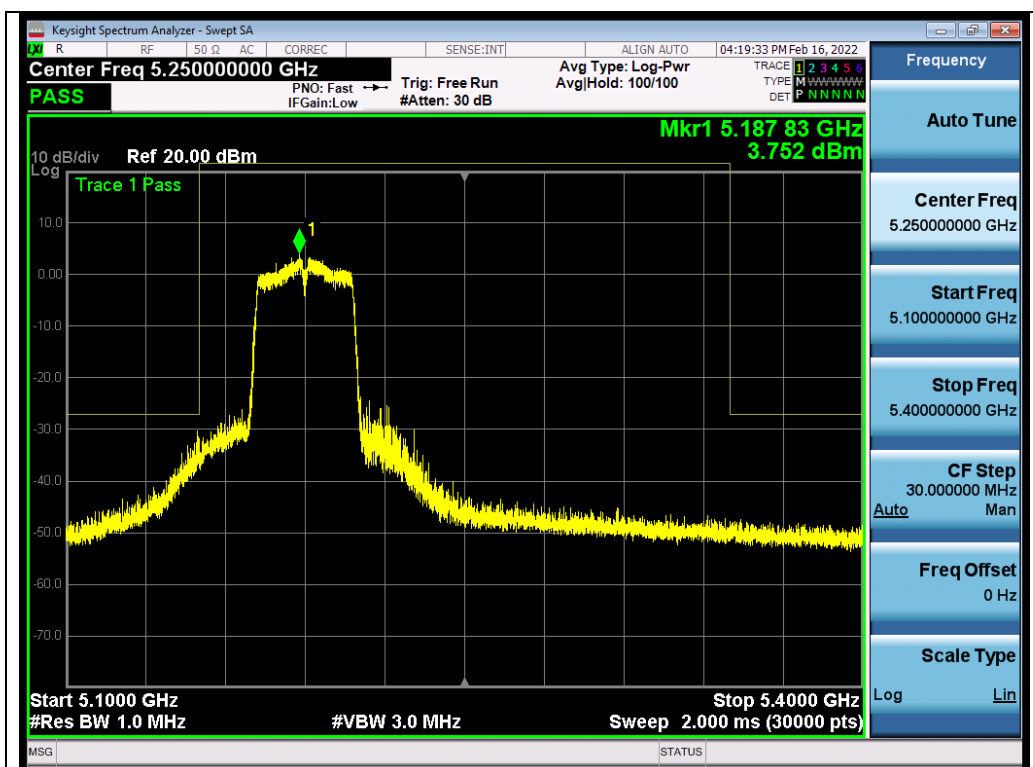
Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_Frequency Band 1



Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_Frequency Band 2

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Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_Frequency Band 3

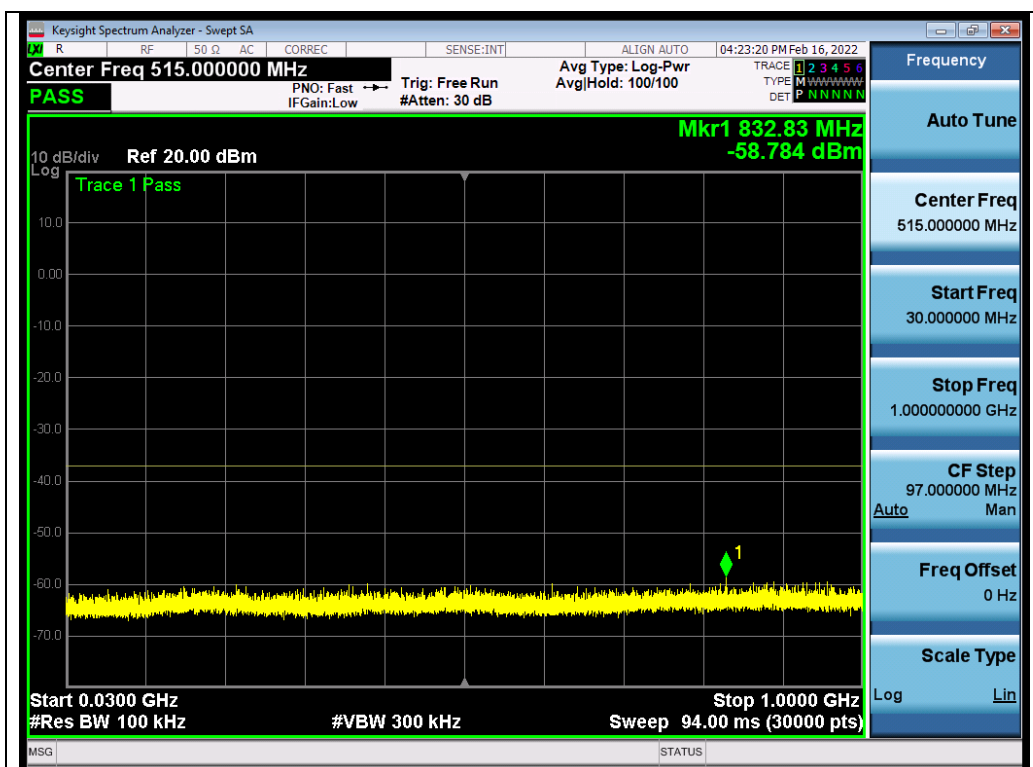


Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_Frequency Band 4

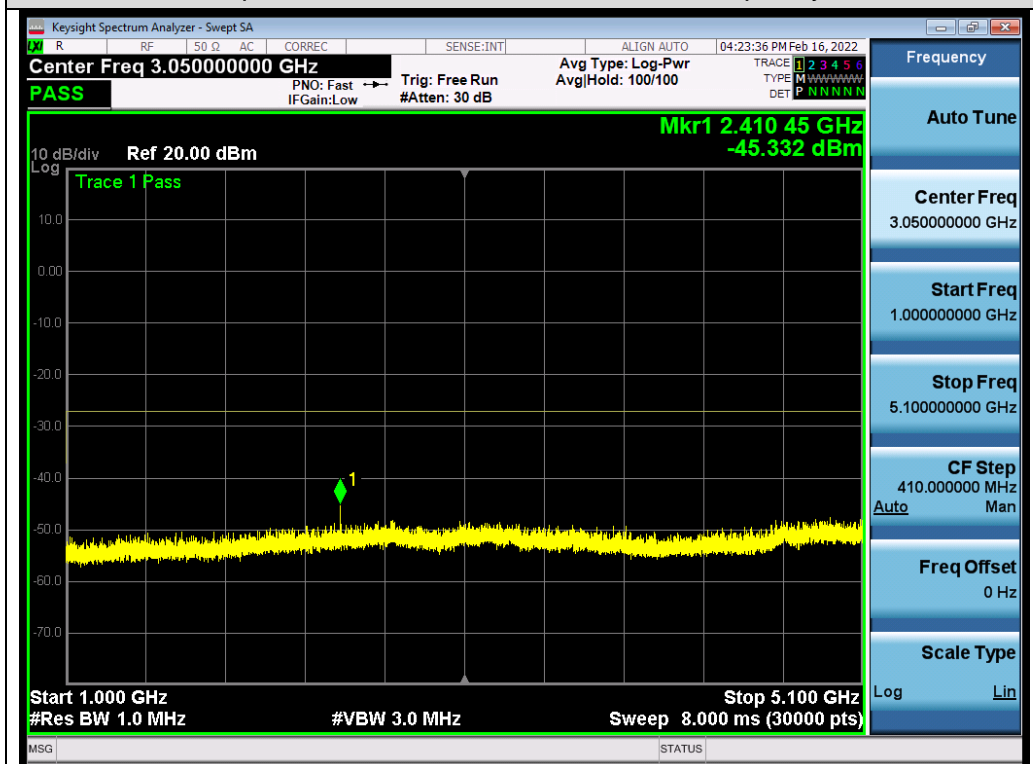
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Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_Frequency Band 1



Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_Frequency Band 2

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