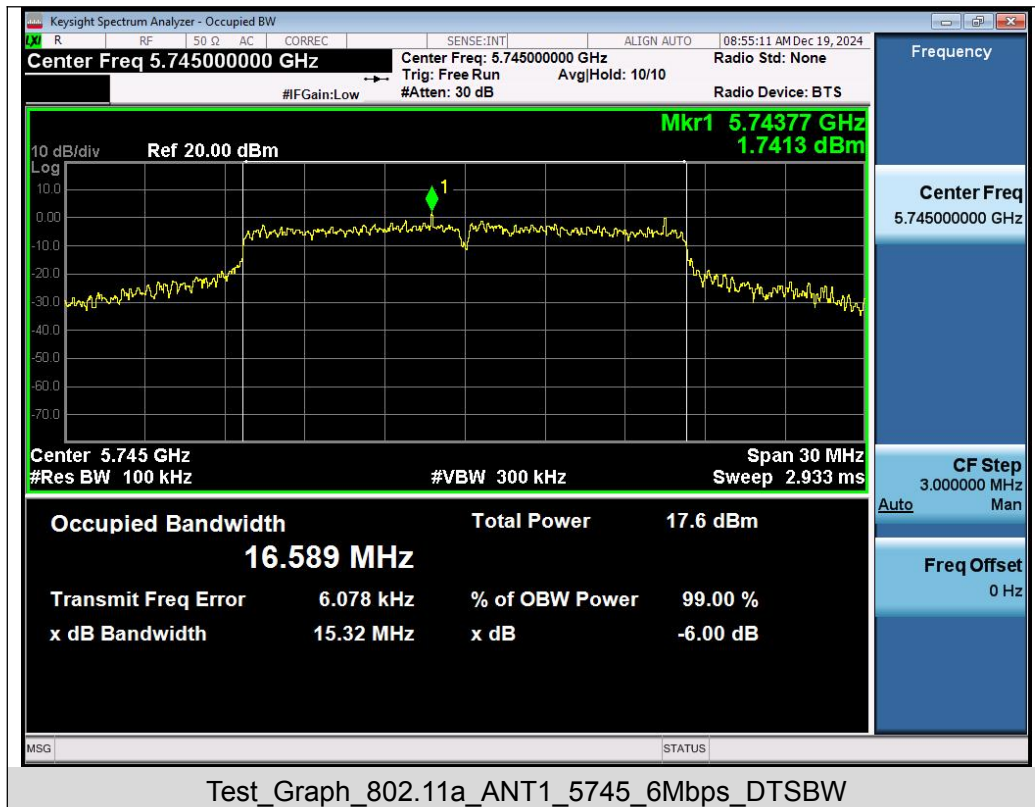
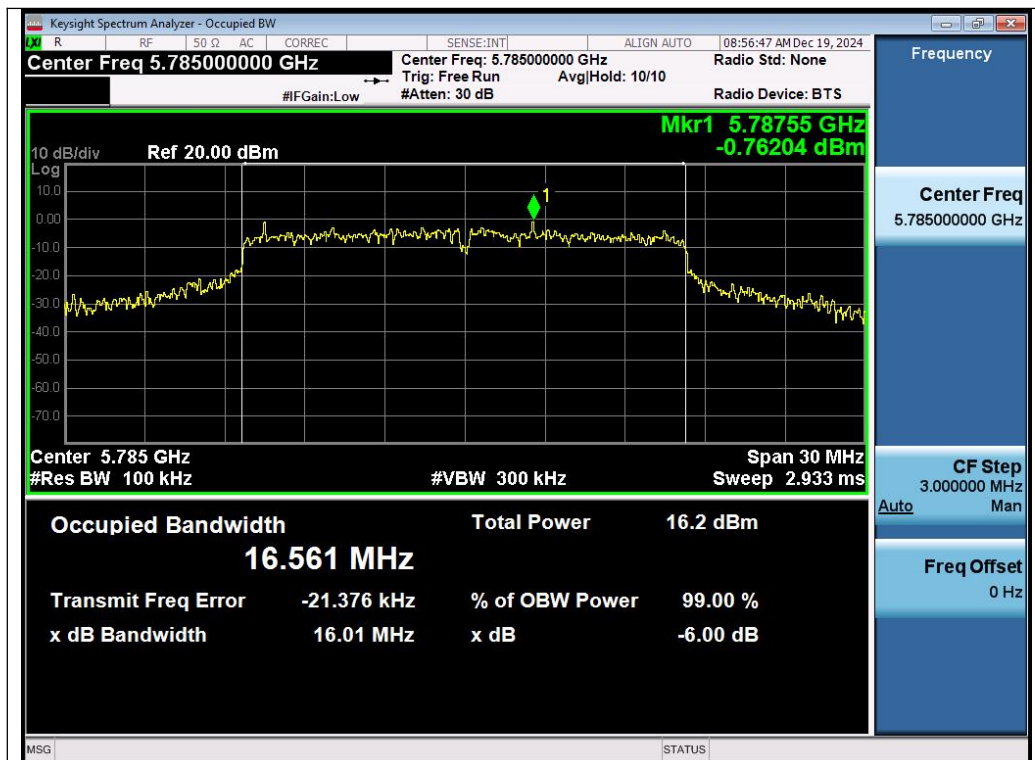


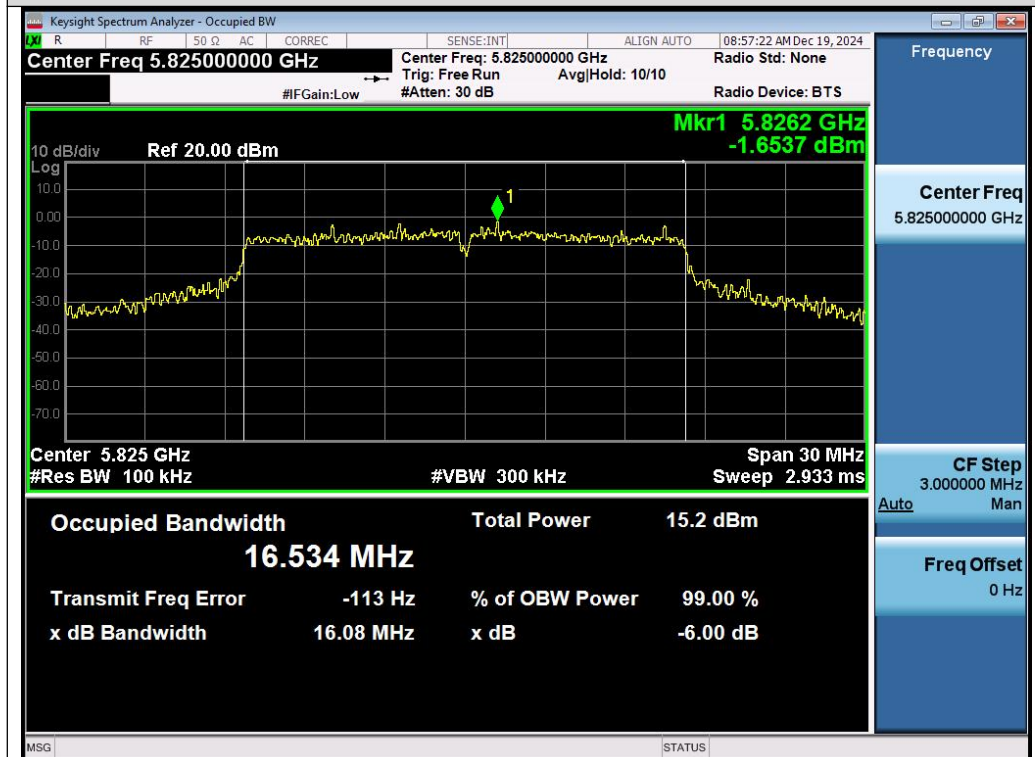
### Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



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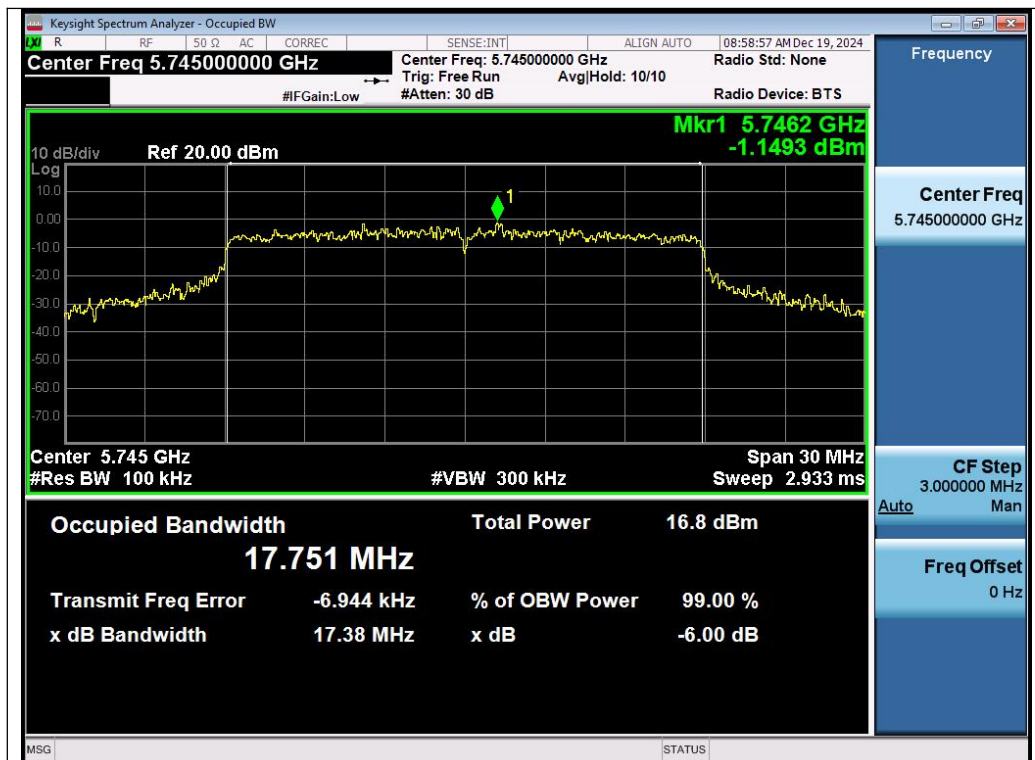
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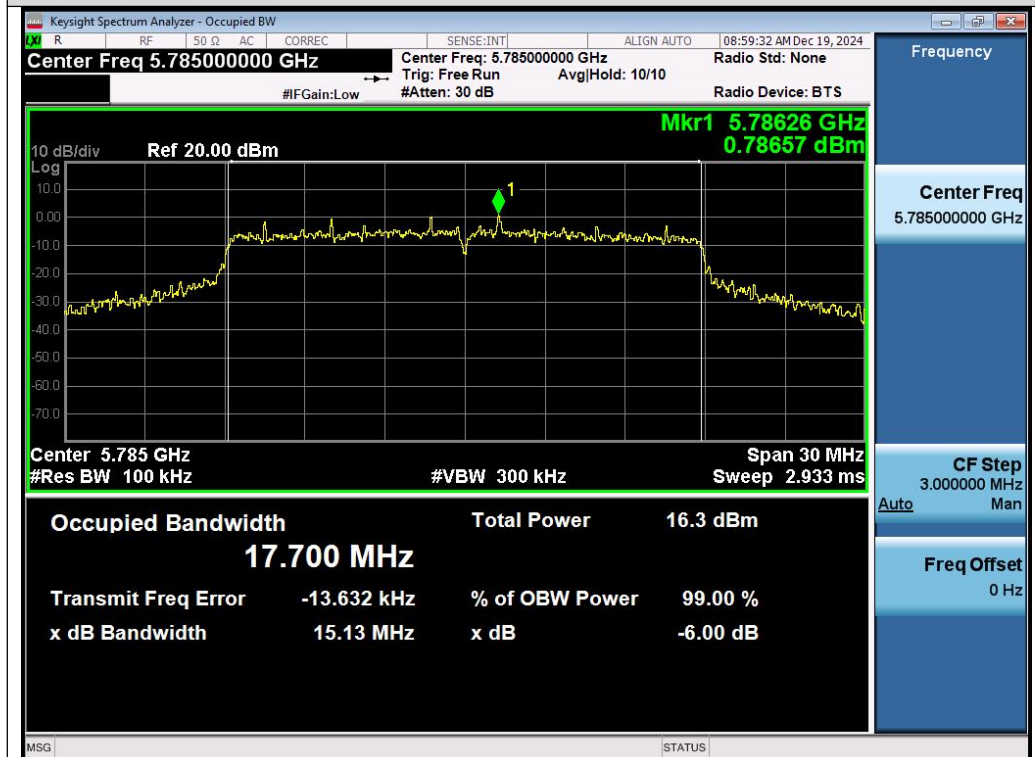
Test\_Graph\_802.11a\_ANT1\_5825\_6Mbps\_DTSBW

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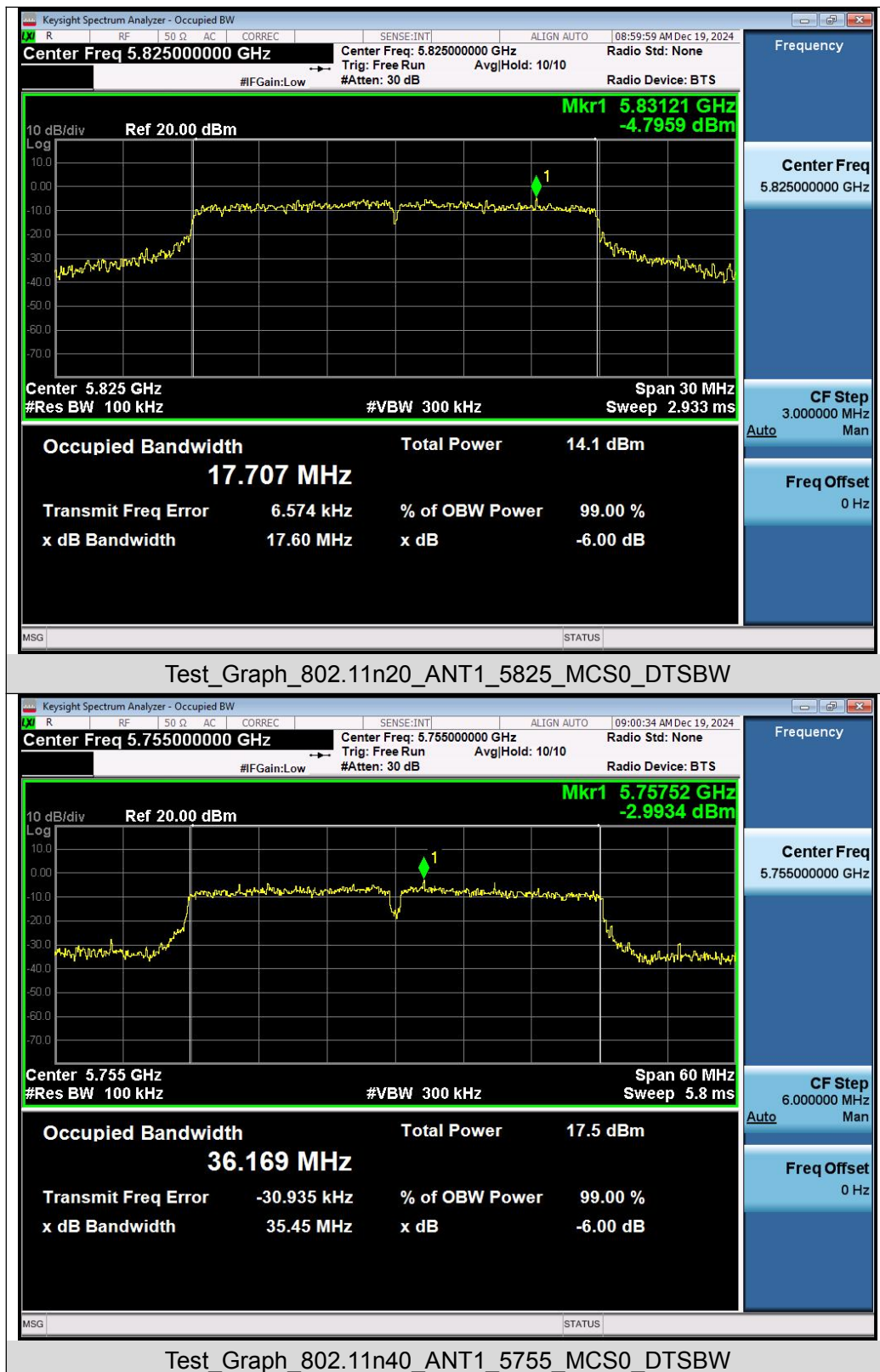
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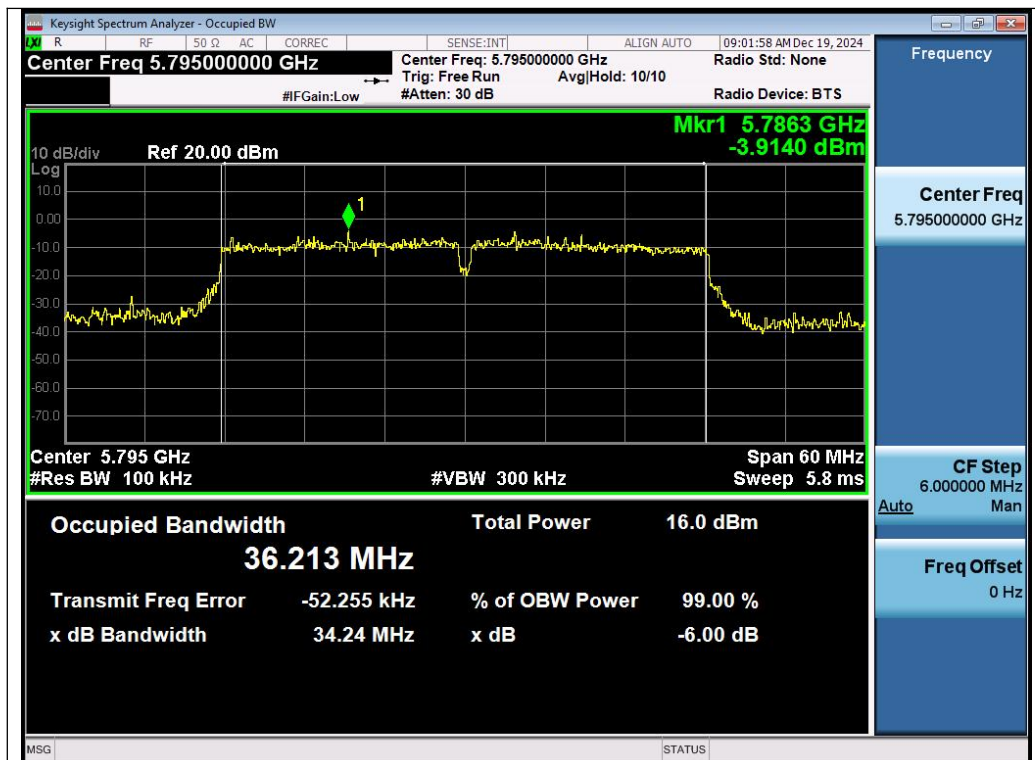
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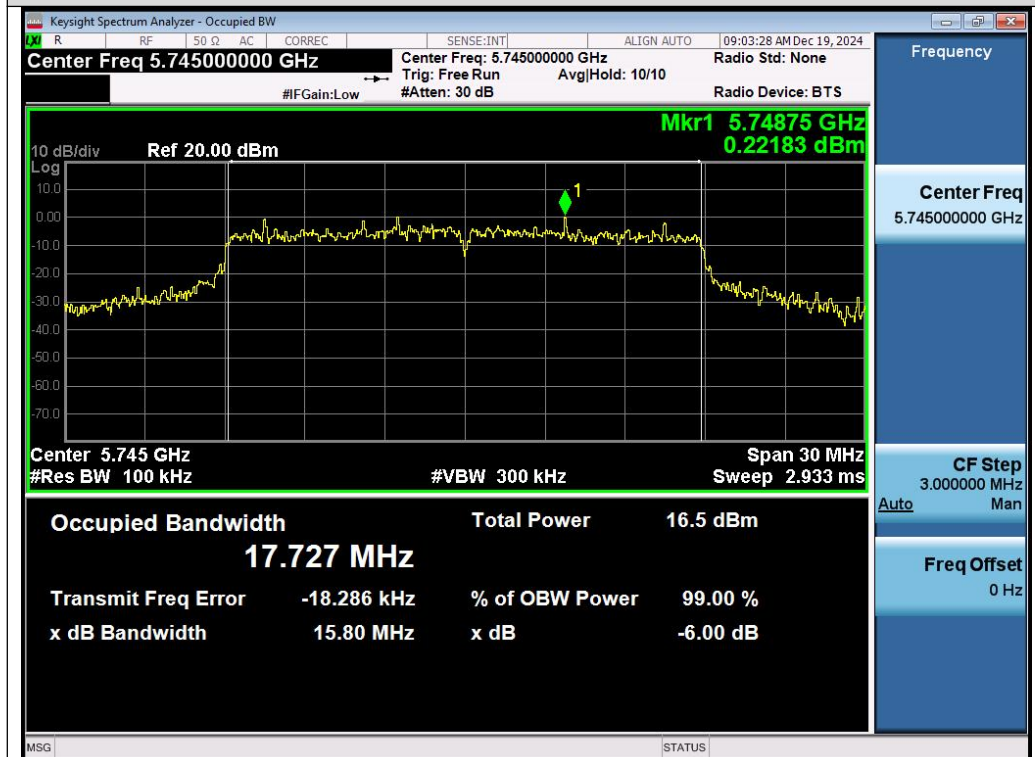


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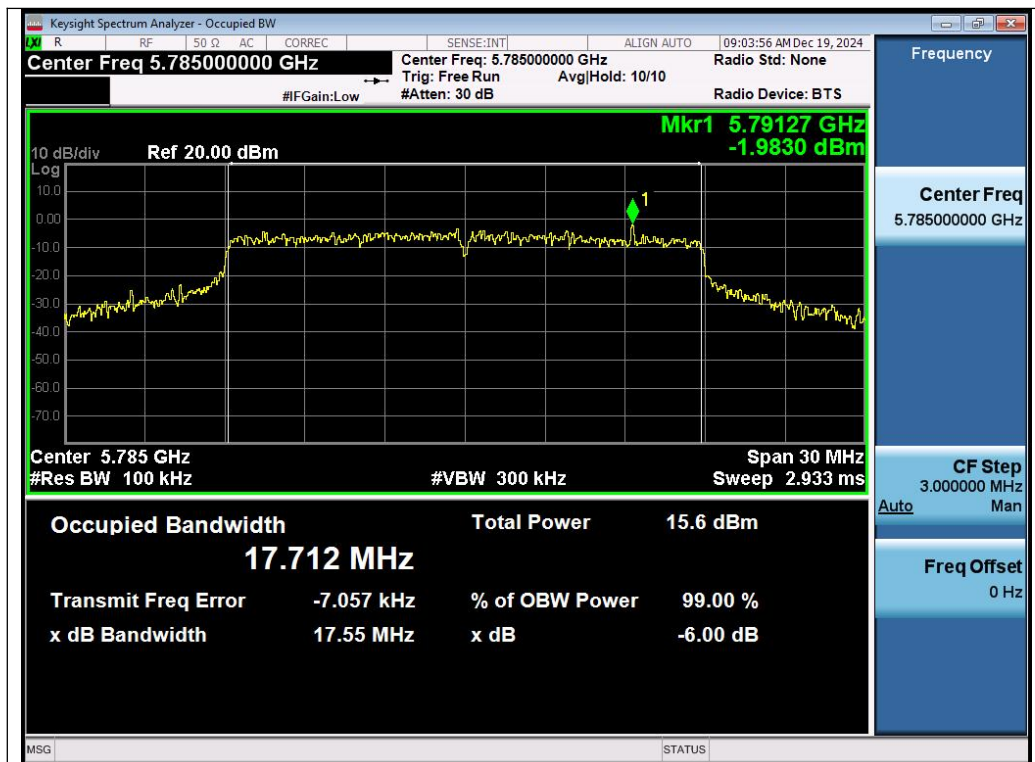


Test\_Graph\_802.11n40\_ANT1\_5795\_MCS0\_DTSBW

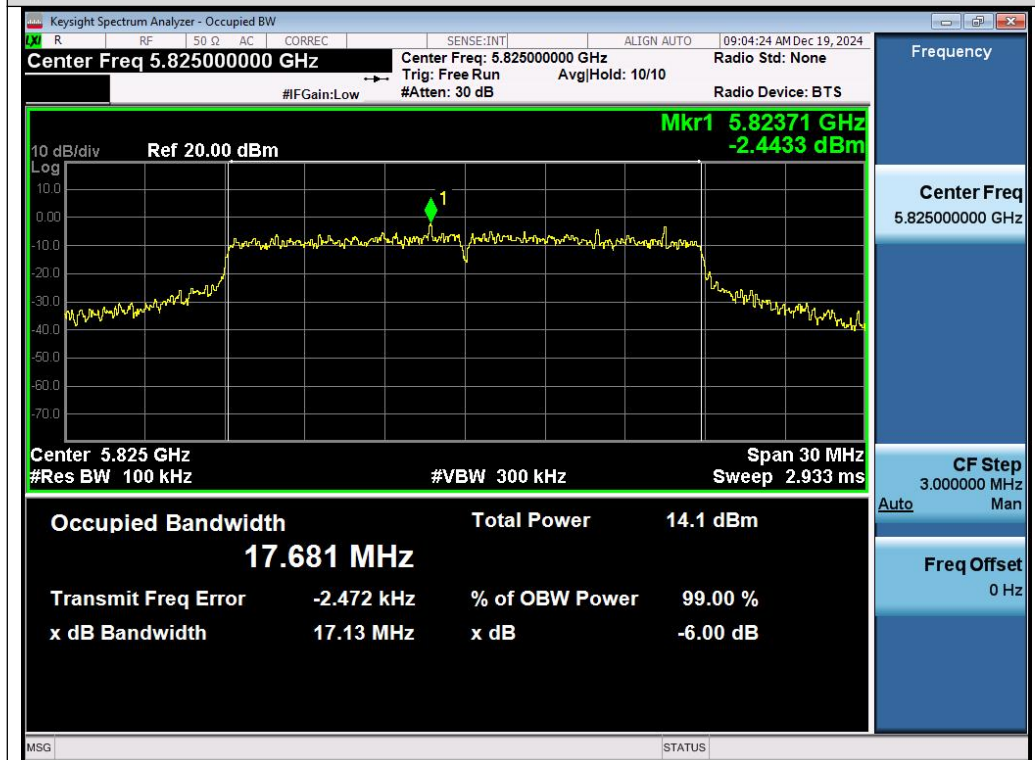


Test\_Graph\_802.11ac20\_ANT1\_5745\_MCS0\_DTSBW

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

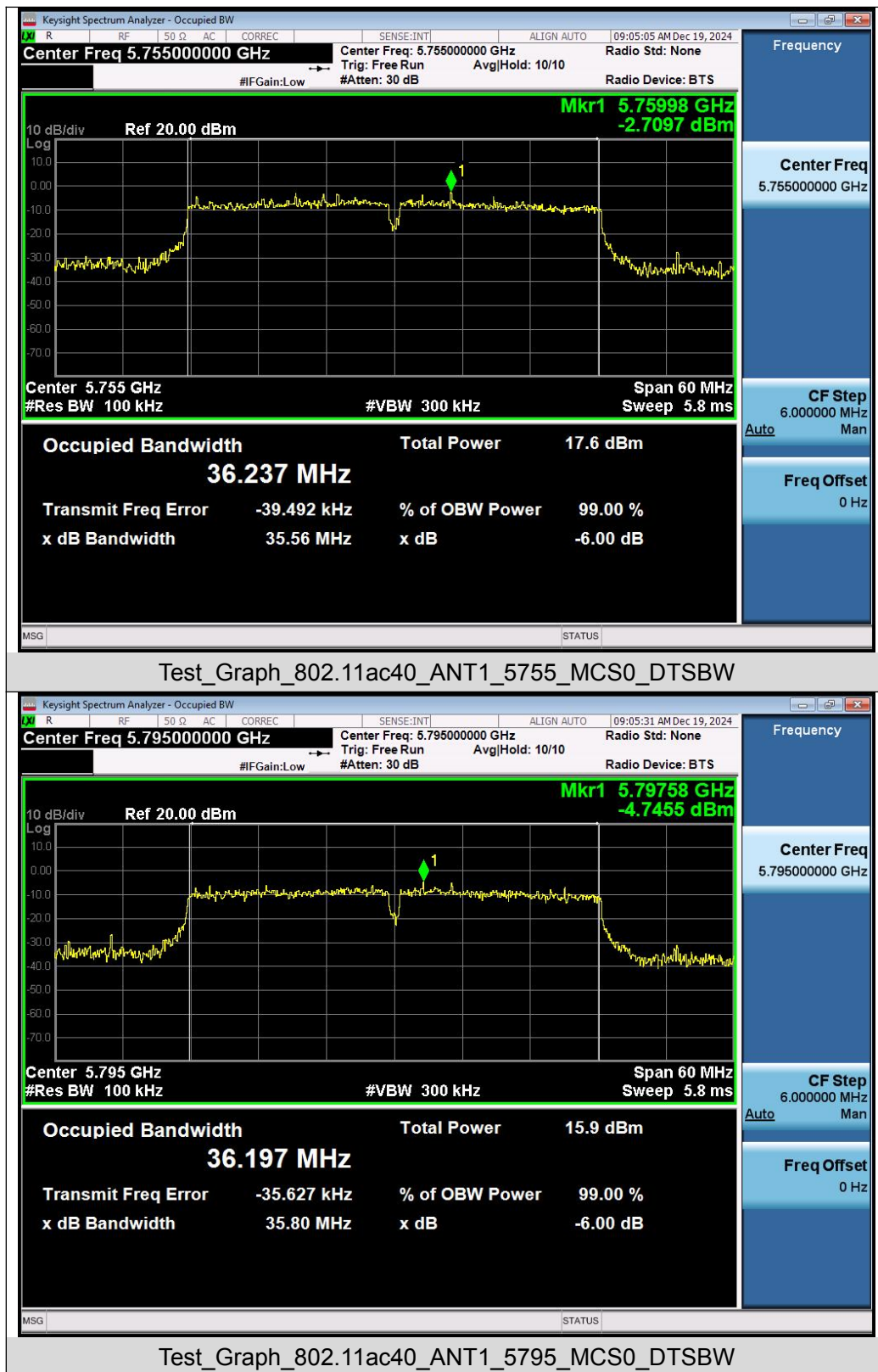


Test\_Graph\_802.11ac20\_ANT1\_5825\_MCS0\_DTSBW

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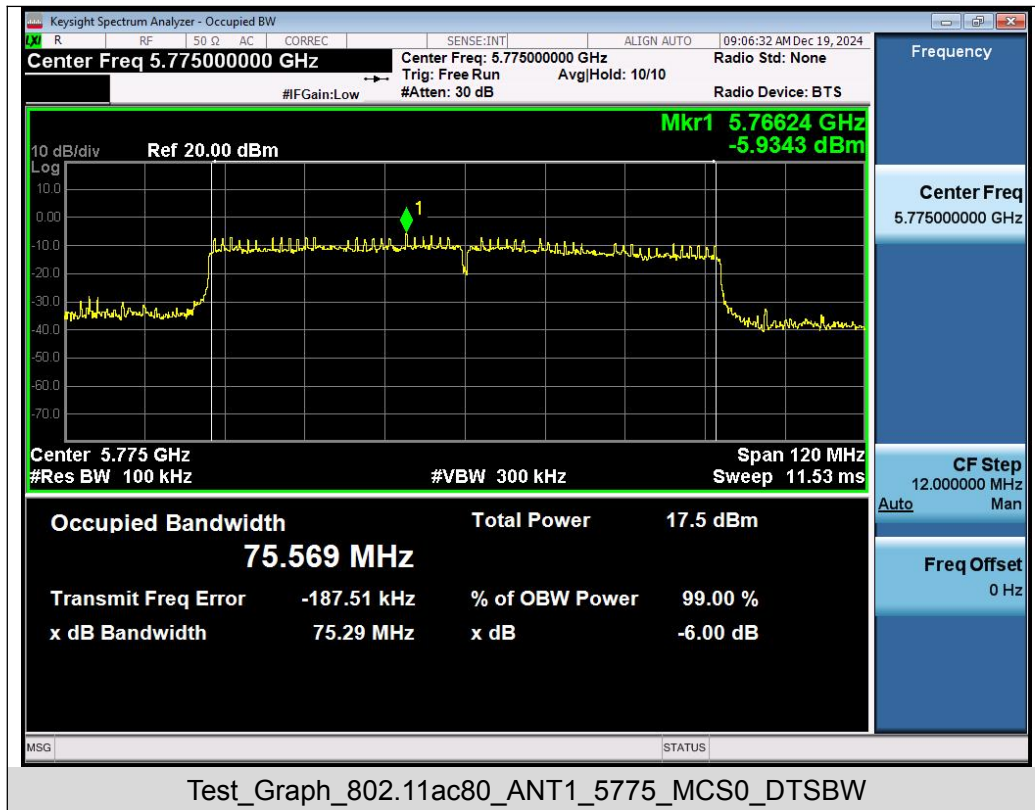
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## 9. Power Spectral Density Measurement

### 9.1 Provisions Applicable

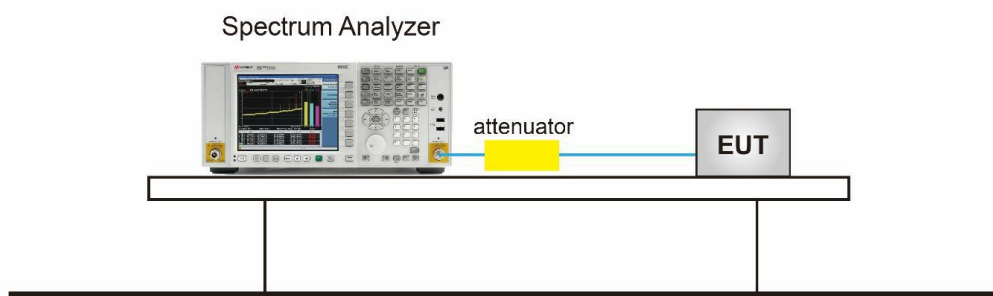
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		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	4.496	11	Pass
	5200	4.648	11	Pass
	5240	4.458	11	Pass
802.11n20	5180	2.949	11	Pass
	5200	3.212	11	Pass
	5240	3.650	11	Pass
802.11n40	5190	-2.463	11	Pass
	5230	-2.337	11	Pass
802.11ac20	5180	2.973	11	Pass
	5200	3.250	11	Pass
	5240	3.363	11	Pass
802.11ac40	5190	-2.404	11	Pass
	5230	-2.299	11	Pass
802.11ac80	5210	-7.258	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	4.301	11	Pass
	5300	3.818	11	Pass
	5320	3.472	11	Pass
802.11n20	5260	3.688	11	Pass
	5300	2.794	11	Pass
	5320	2.298	11	Pass
802.11n40	5270	-2.844	11	Pass
	5310	-3.949	11	Pass
802.11ac20	5260	3.769	11	Pass
	5300	2.857	11	Pass
	5320	2.387	11	Pass
802.11ac40	5270	-2.739	11	Pass
	5310	-3.827	11	Pass
802.11ac80	5290	-7.401	11	Pass

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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	3.116	11	Pass
	5600	2.850	11	Pass
	5700	2.176	11	Pass
802.11n20	5500	1.913	11	Pass
	5600	1.696	11	Pass
	5700	0.990	11	Pass
802.11n40	5510	-3.825	11	Pass
	5590	-3.995	11	Pass
	5670	-3.692	11	Pass
802.11ac20	5500	1.982	11	Pass
	5600	1.622	11	Pass
	5700	1.211	11	Pass
802.11ac40	5510	-3.723	11	Pass
	5590	-4.167	11	Pass
	5670	-3.635	11	Pass
802.11ac80	5530	-9.417	11	Pass
	5610	-9.211	11	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-7.451	-0.461	30	Pass
	5785	-8.491	-1.501	30	Pass
	5825	-10.09	-3.100	30	Pass
802.11n20	5745	-8.666	-1.676	30	Pass
	5785	-9.597	-2.607	30	Pass
	5825	-11.73	-4.740	30	Pass
802.11n40	5755	-11.612	-4.622	30	Pass
	5795	-13.313	-6.323	30	Pass
802.11ac20	5745	-9.081	-2.091	30	Pass
	5785	-9.949	-2.959	30	Pass
	5825	-11.208	-4.218	30	Pass
802.11ac40	5755	-11.537	-4.547	30	Pass
	5795	-12.805	-5.815	30	Pass
802.11ac80	5775	-16.35	-9.360	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



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_PSD



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

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



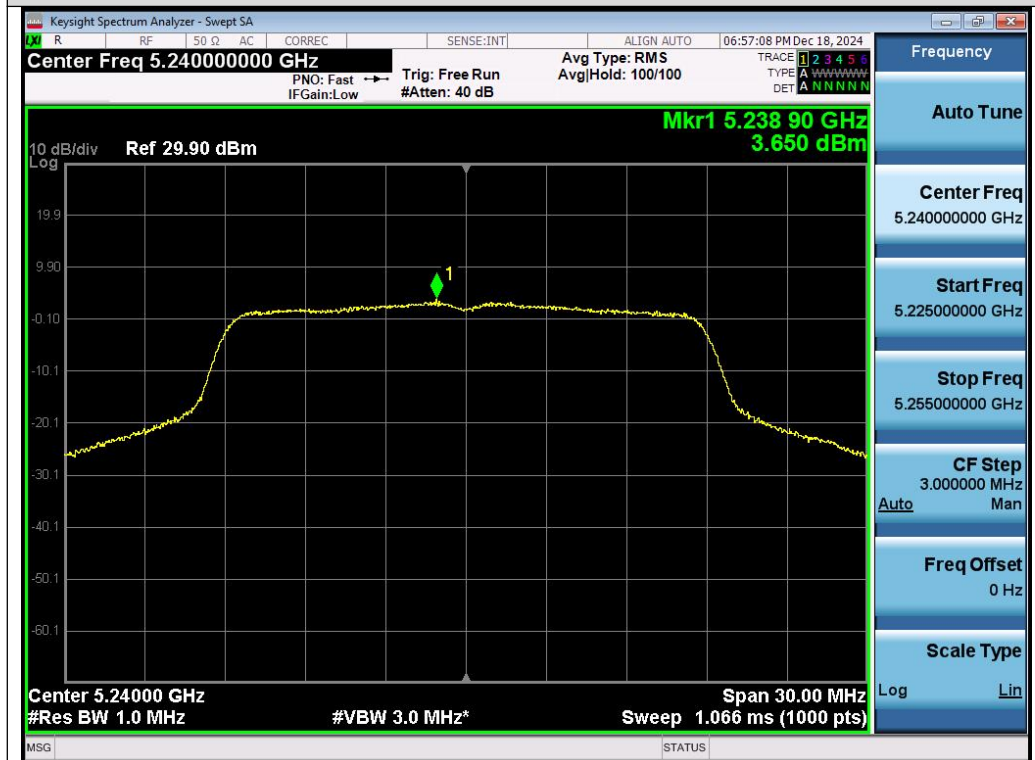
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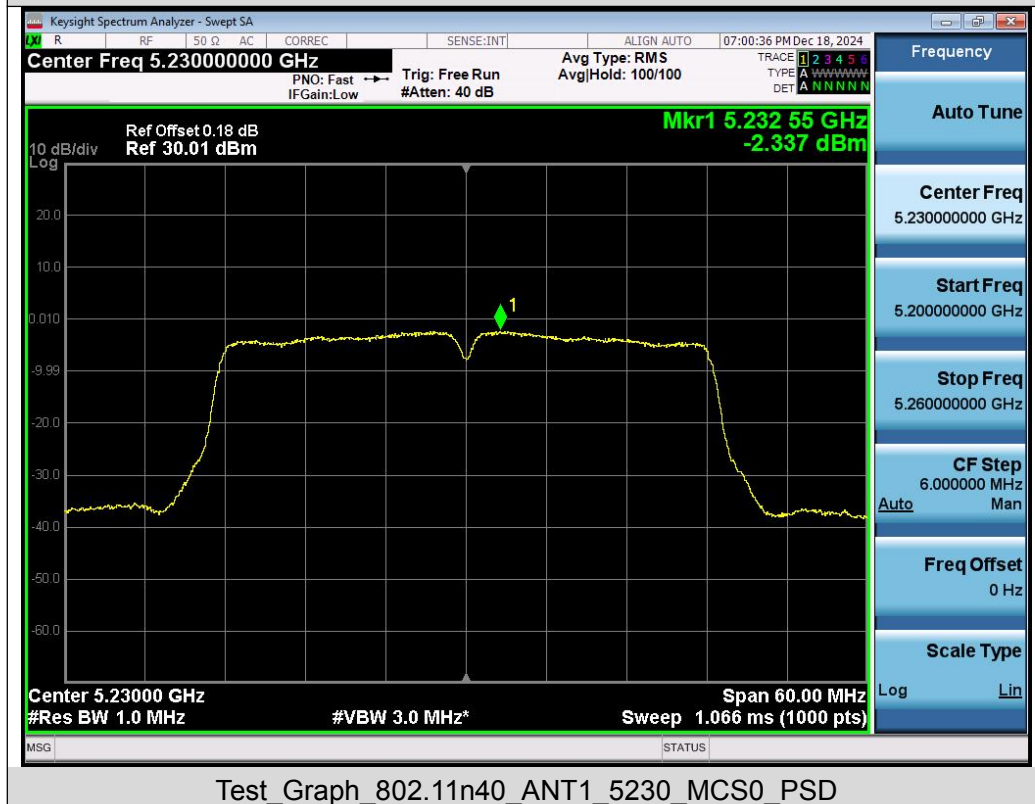
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Test\_Graph\_802.11n20\_ANT1\_5240\_MCS0\_PSD

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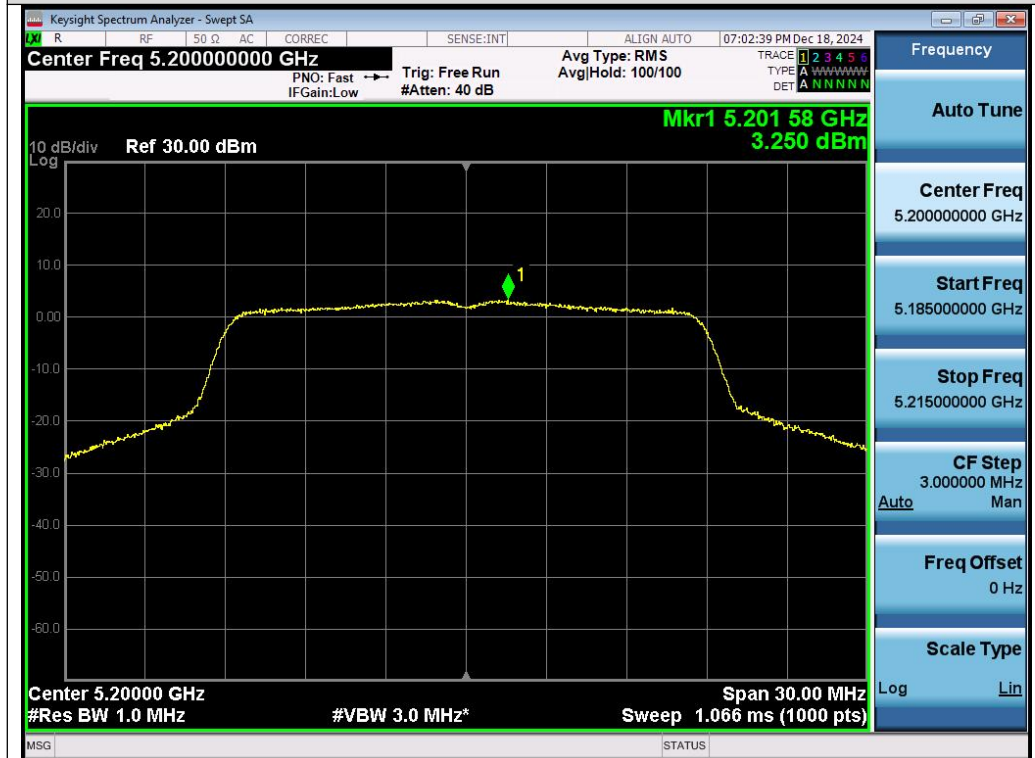
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Test\_Graph\_802.11ac20\_ANT1\_5180\_MCS0\_PSD



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

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Test\_Graph\_802.11ac20\_ANT1\_5240\_MCS0\_PSD



Test Graph 802.11ac40 ANT1 5190 MCS0 PSD

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Test\_Graph\_802.11ac40\_ANT1\_5230\_MCS0\_PSD



Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS0\_PSD

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



Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_PSD



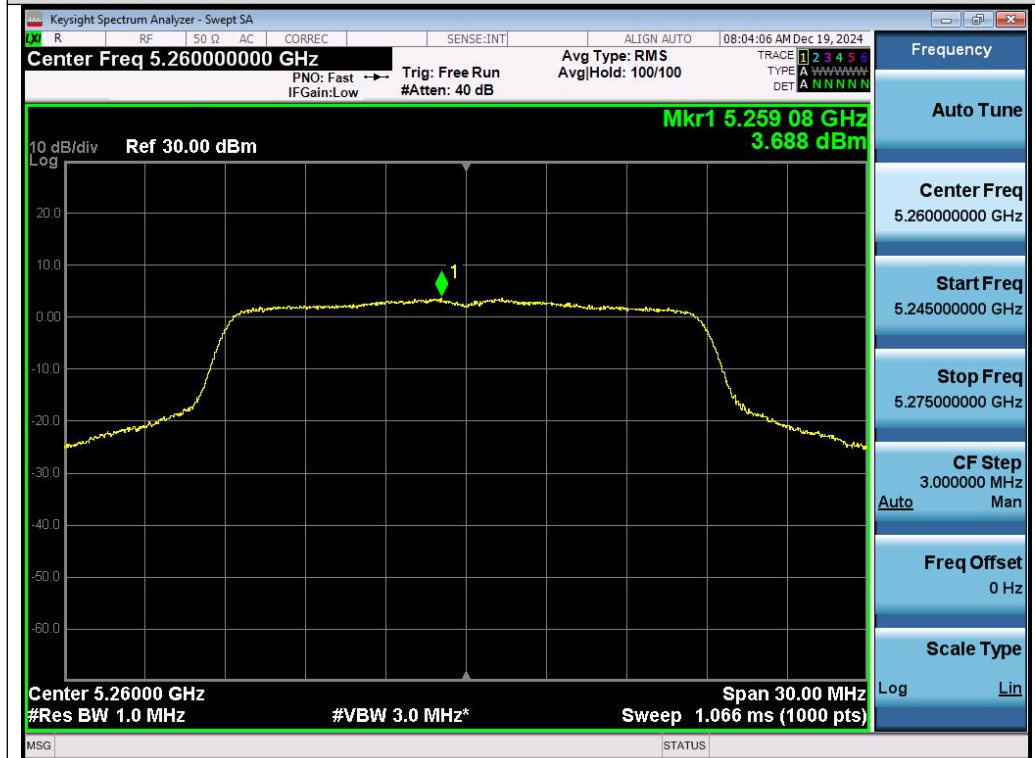
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Test\_Graph\_802.11a\_ANT1\_5320\_6Mbps\_PSD



Test\_Graph\_802.11n20\_ANT1\_5260\_MCS0\_PSD

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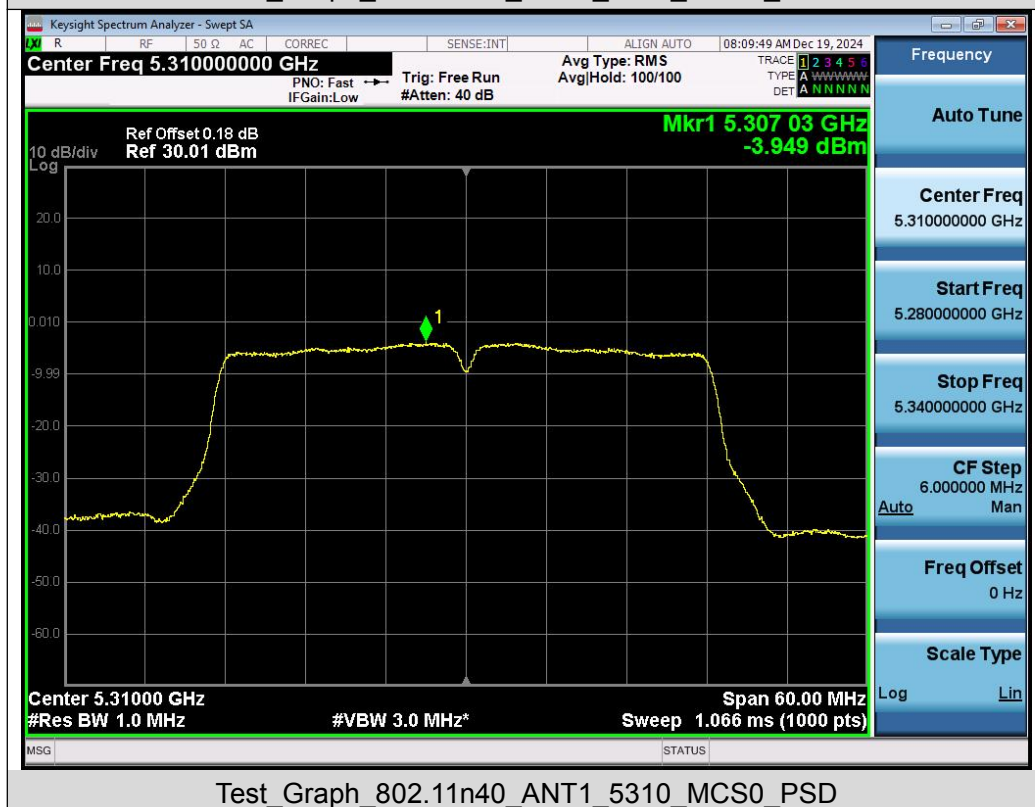
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Test\_Graph\_802.11n20\_ANT1\_5320\_MCS0\_PSD

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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\_MCS0\_PSD



Test\_Graph\_802.11ac40\_ANT1\_5270\_MCS0\_PSD

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