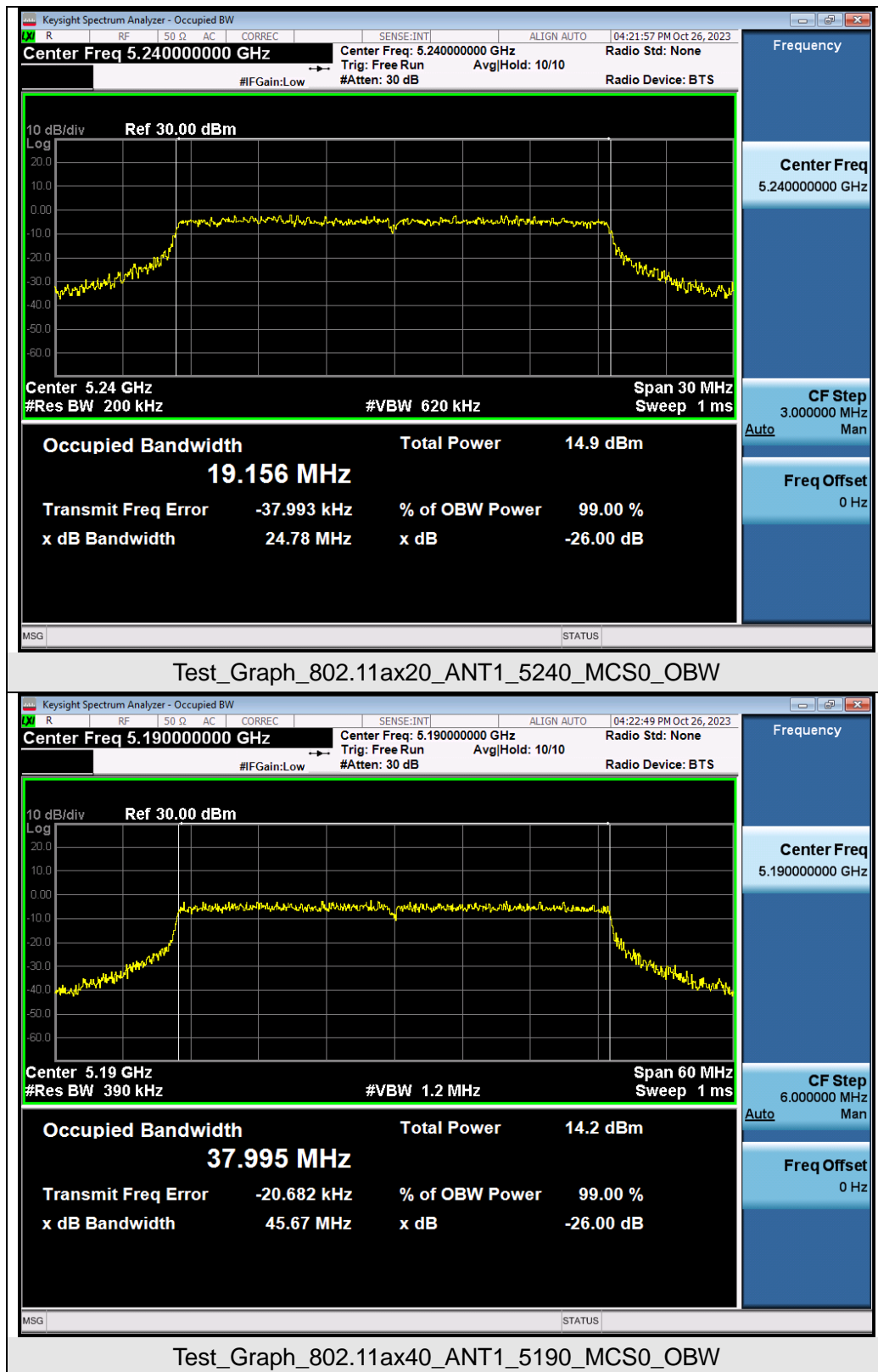
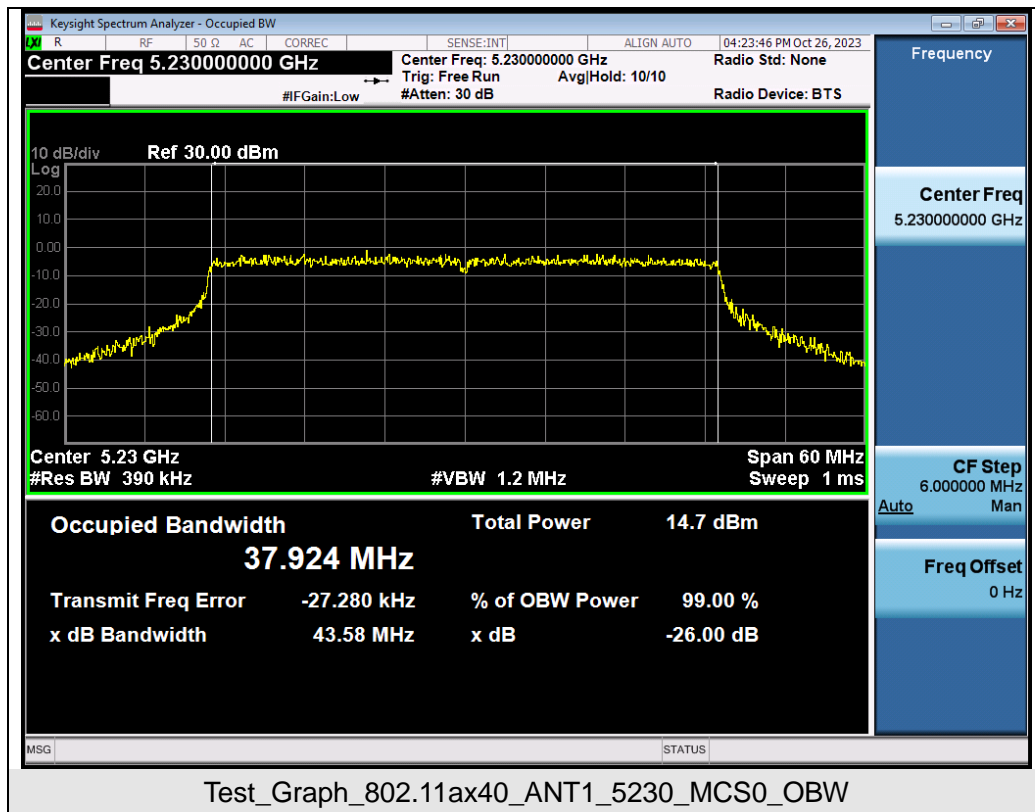


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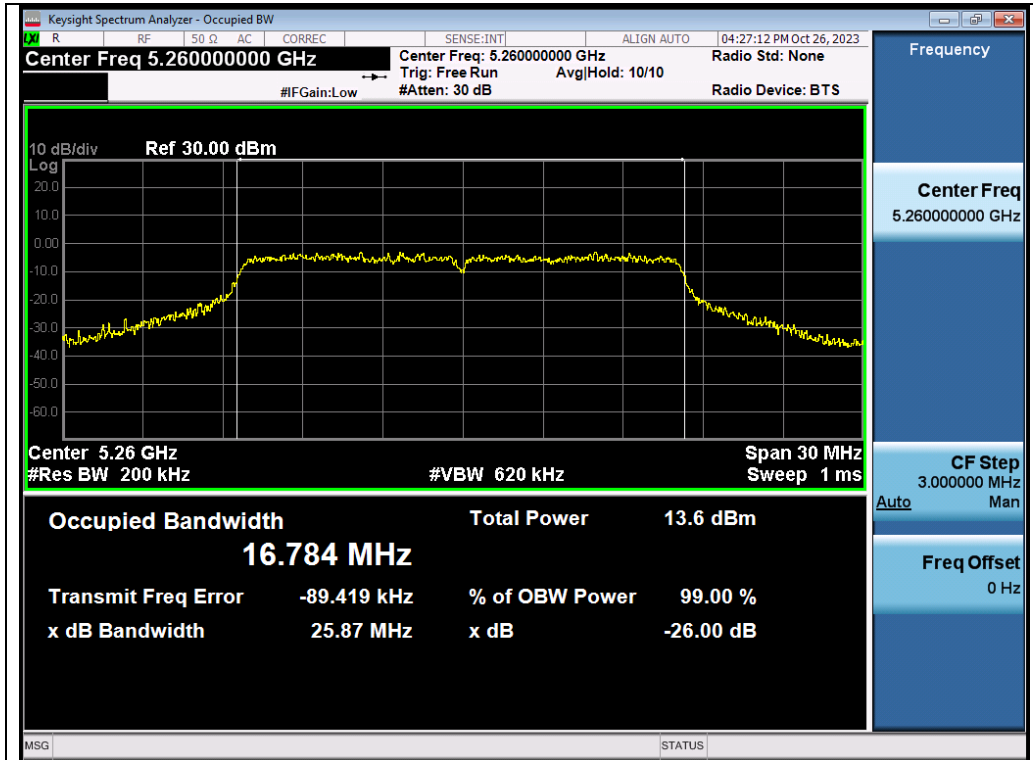


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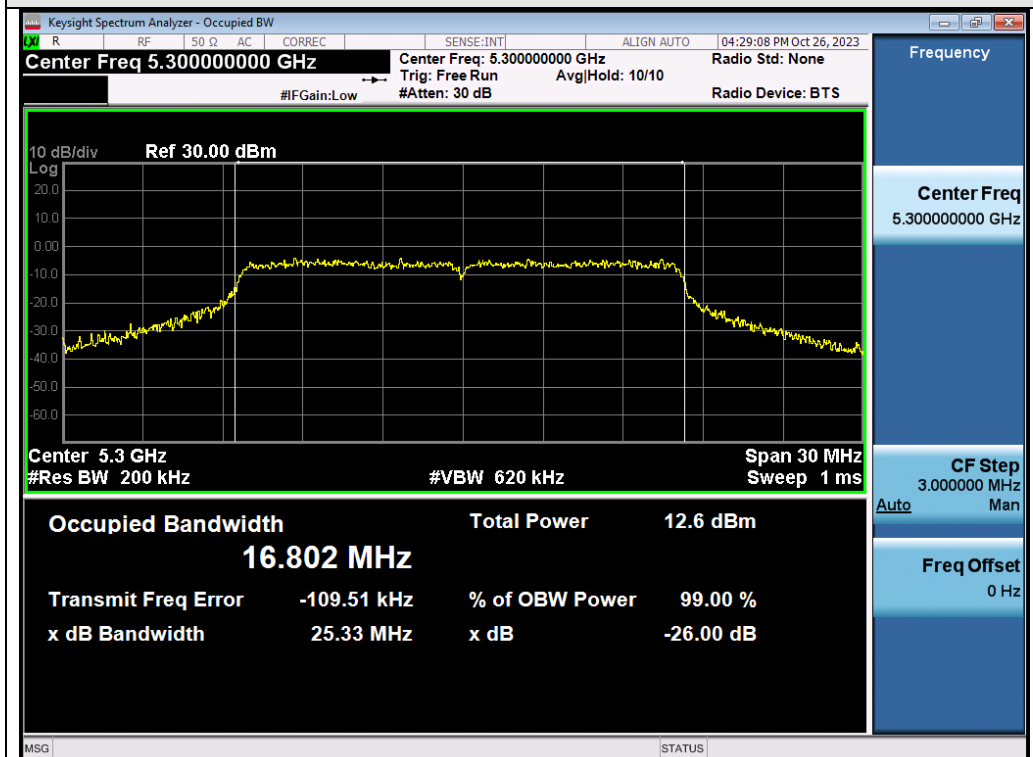


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Test Graphs of Occupied Bandwidth for band 5.25-5.35 GHz

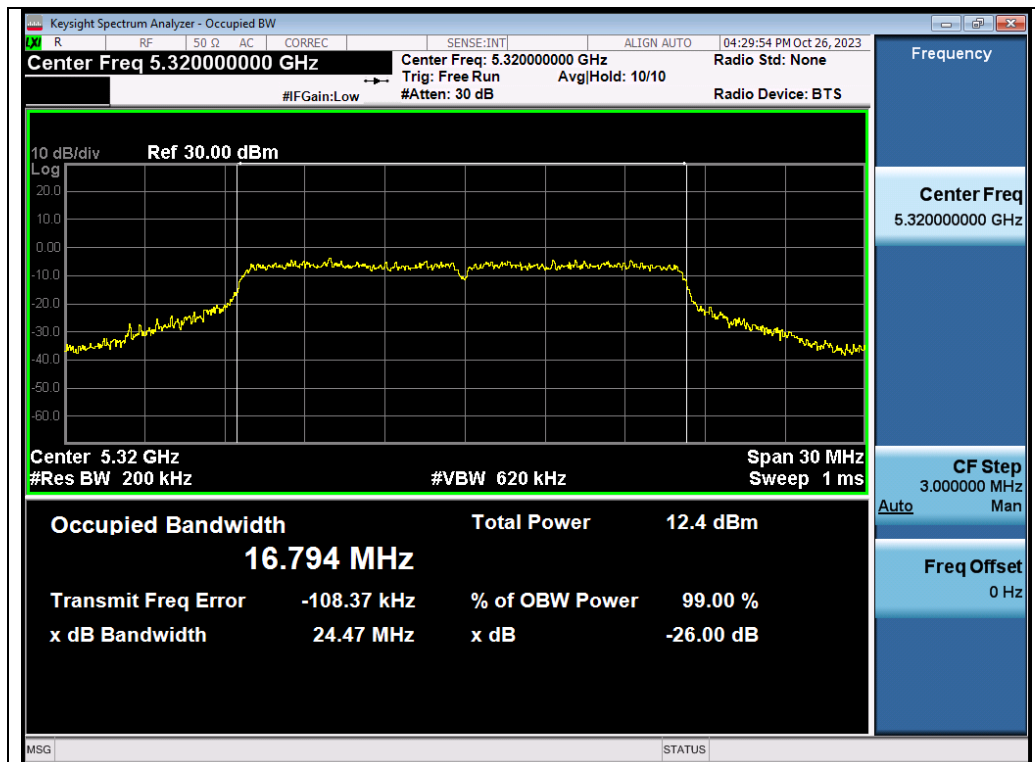


Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

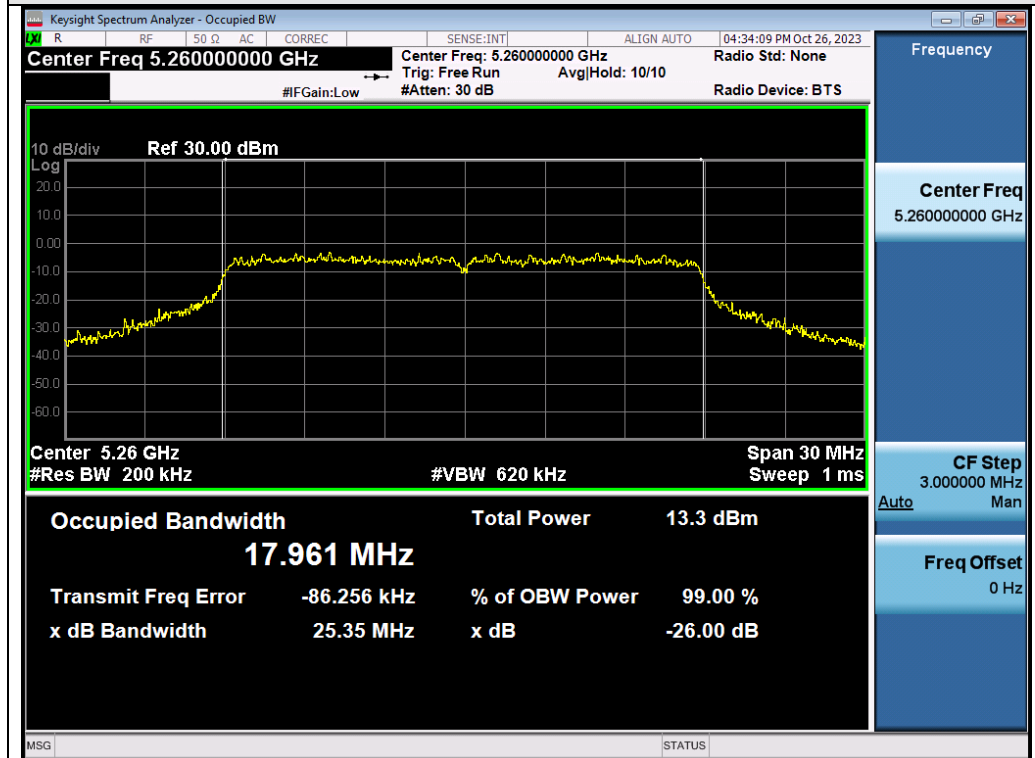


Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

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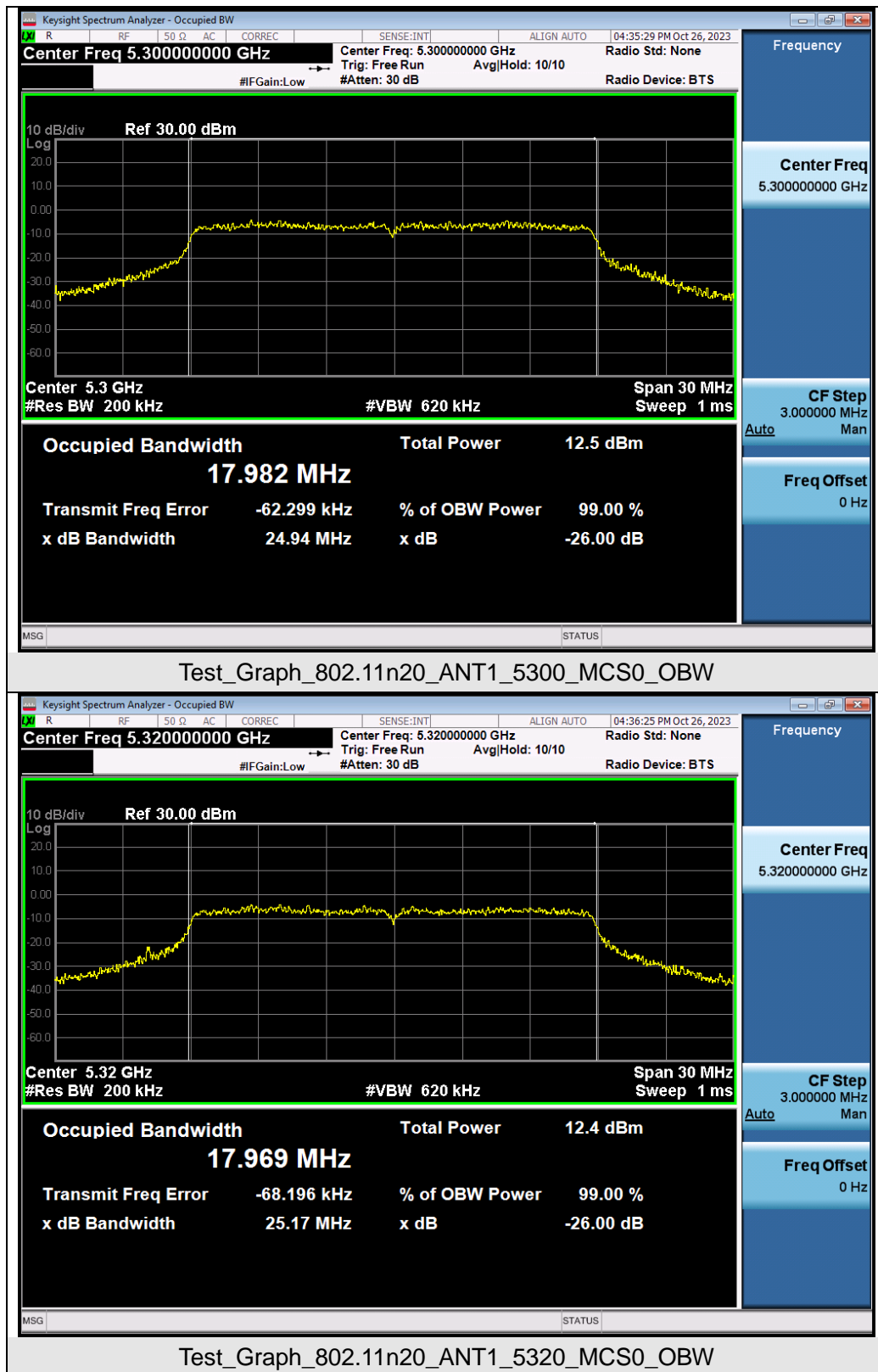


Test_Graph_802.11a_ANT1_5320_6Mbps_OBW

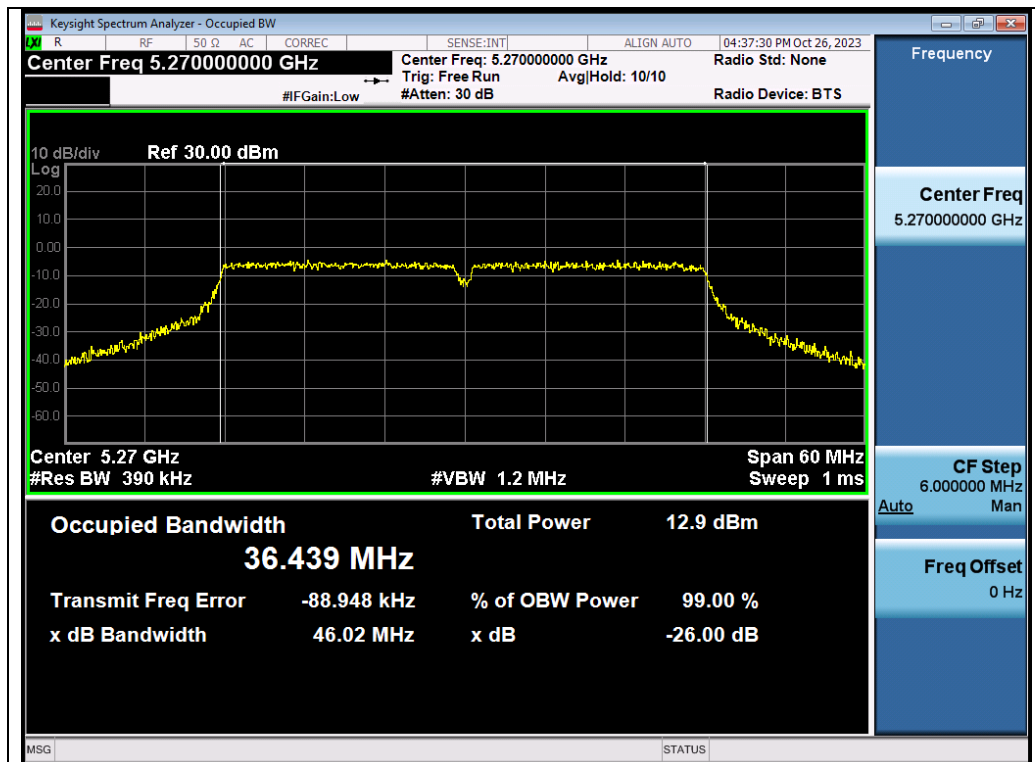


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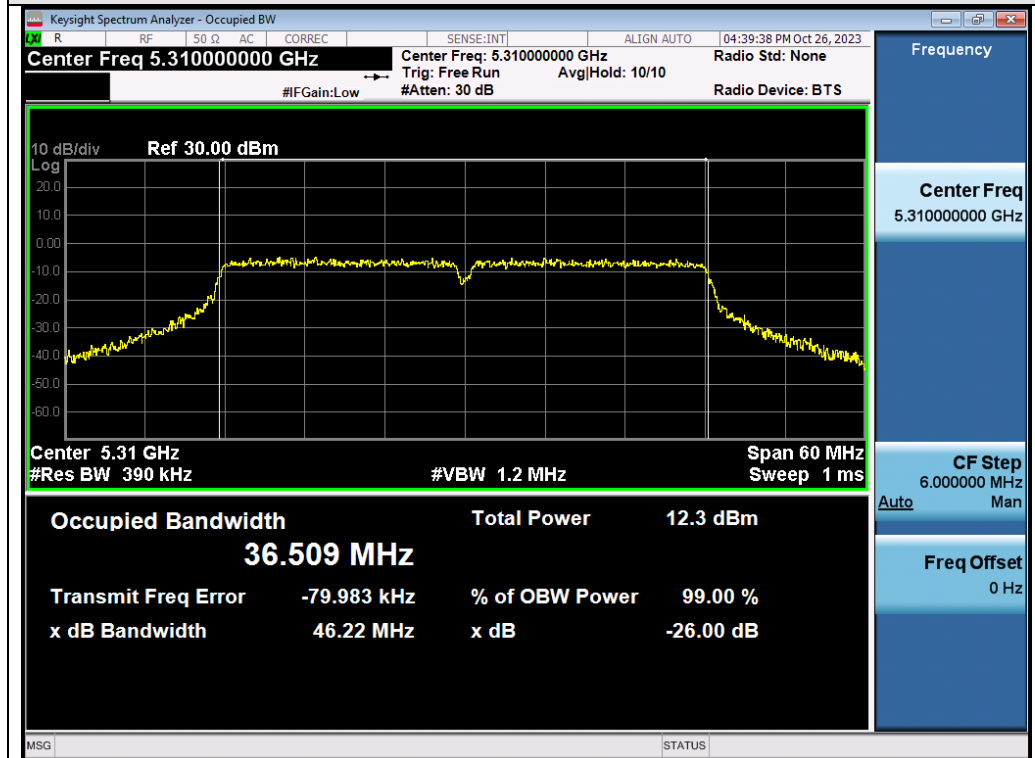
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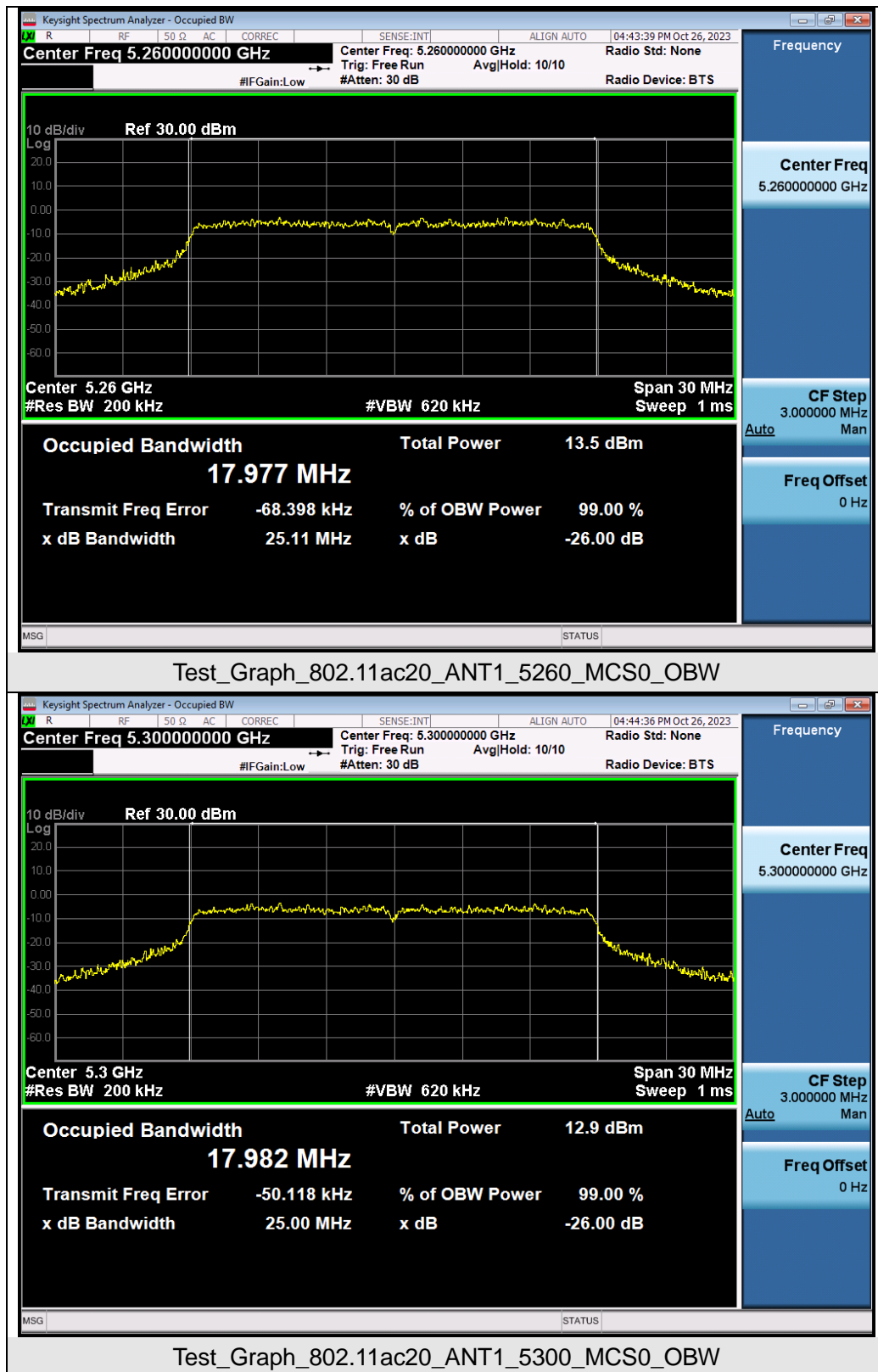


Test_Graph_802.11n40_ANT1_5270_MCS0_OBW

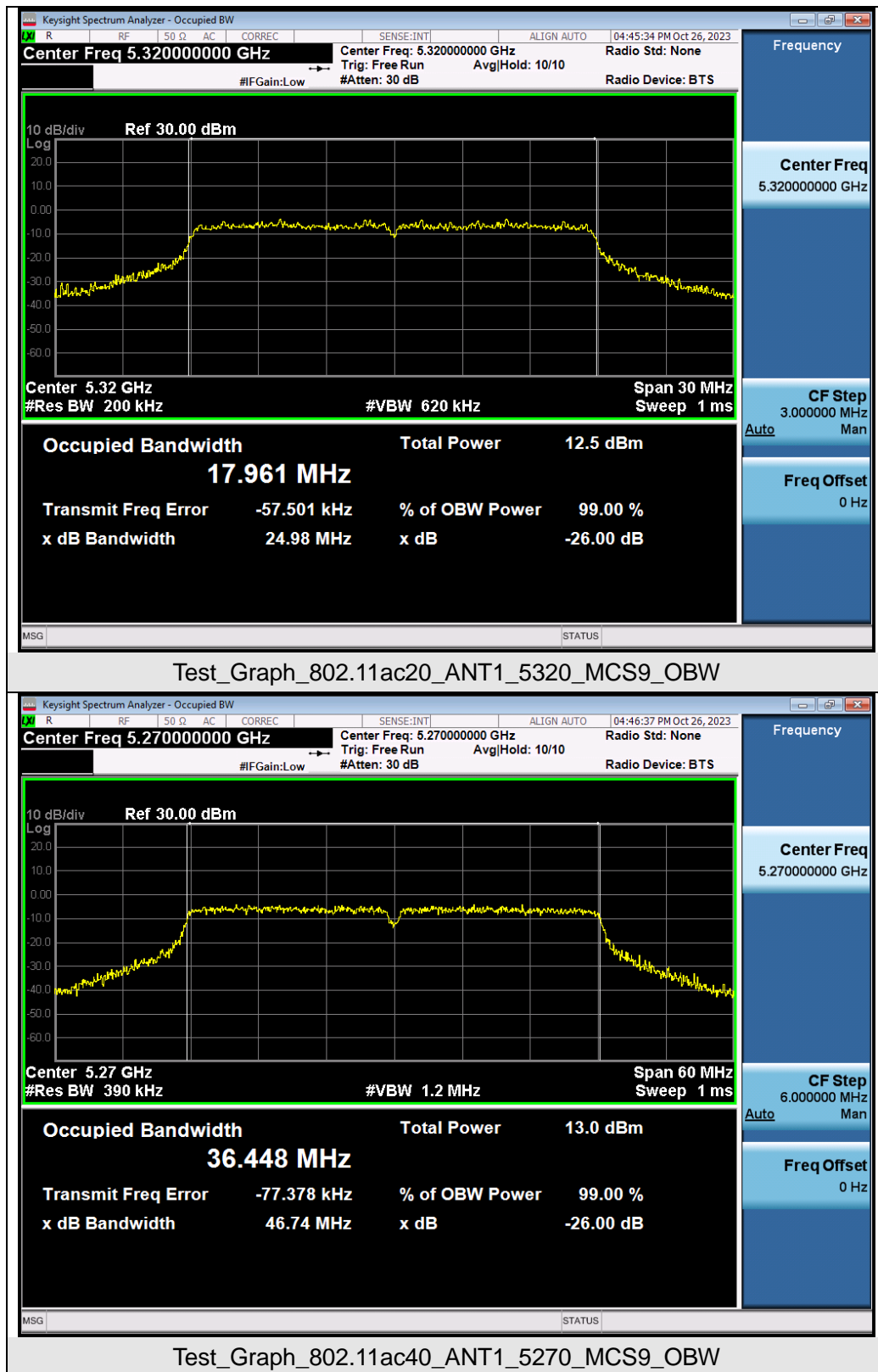


Test_Graph_802.11n40_ANT1_5310_MCS0_OBW

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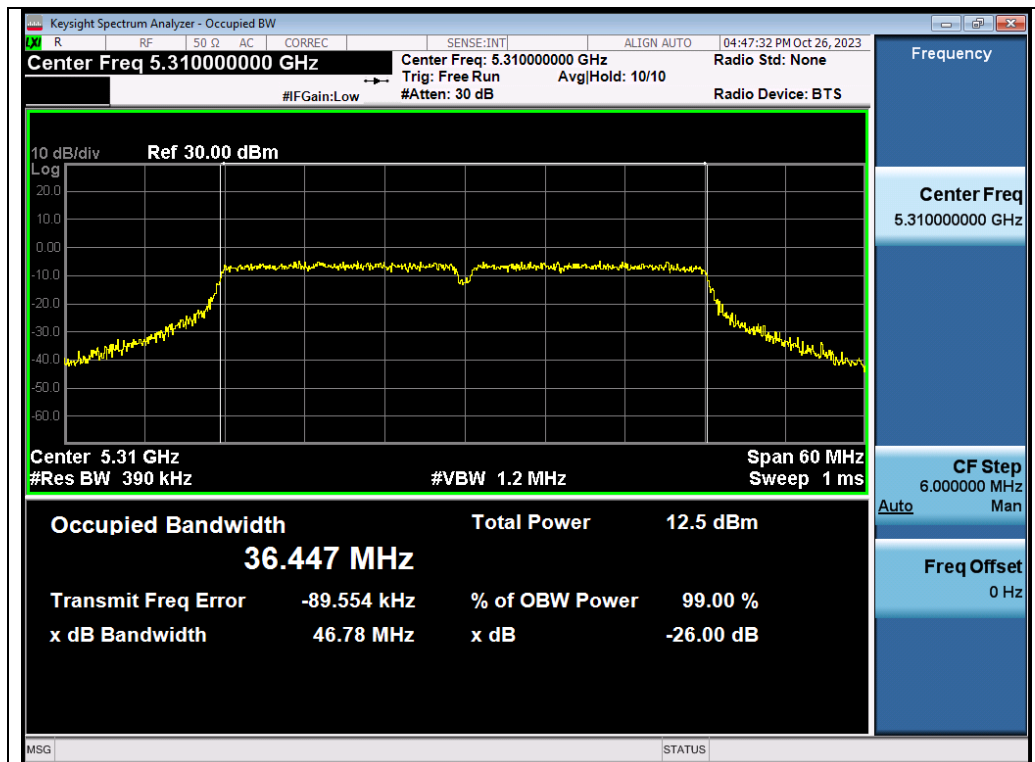


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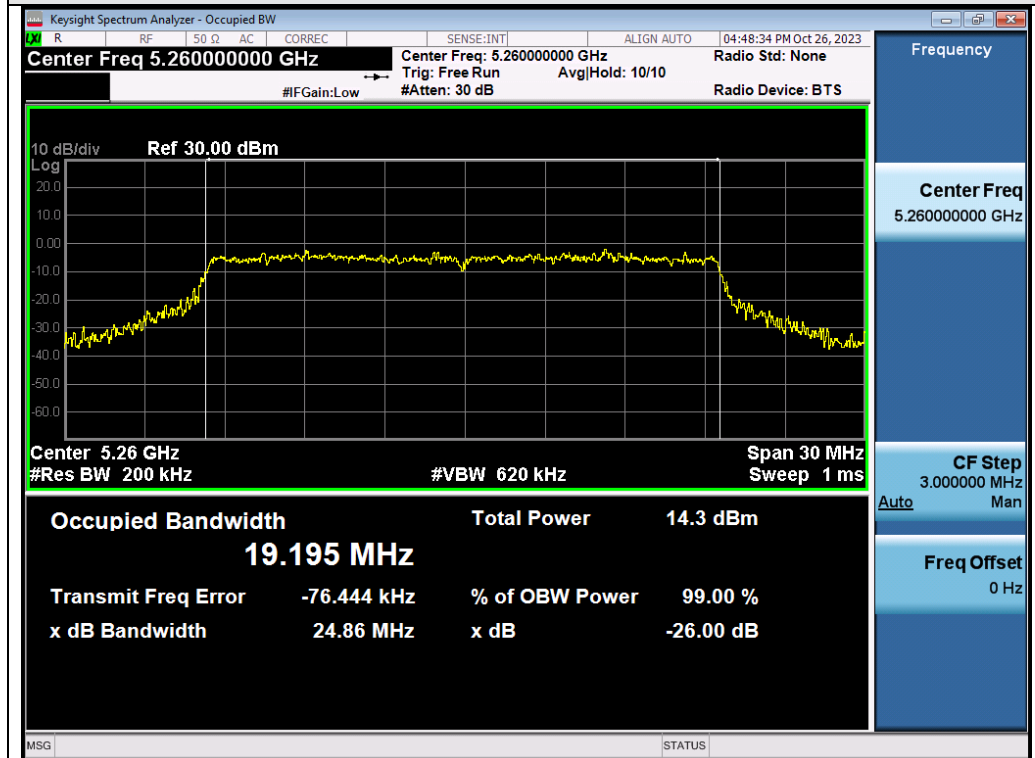


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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

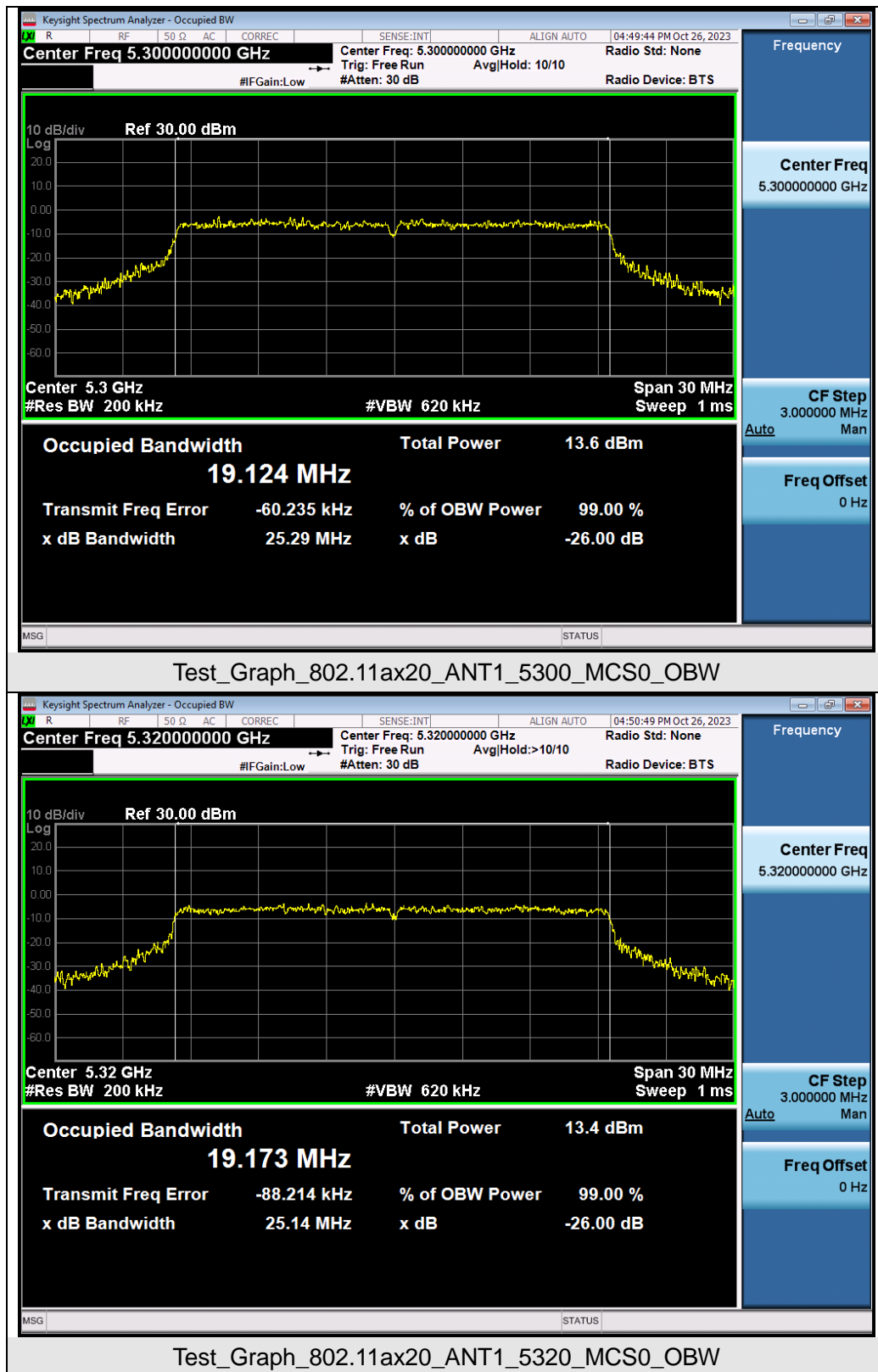


Test_Graph_802.11ac40_ANT1_5310_MCS9_OBW



Test_Graph_802.11ax20_ANT1_5260_MCS0_OBW

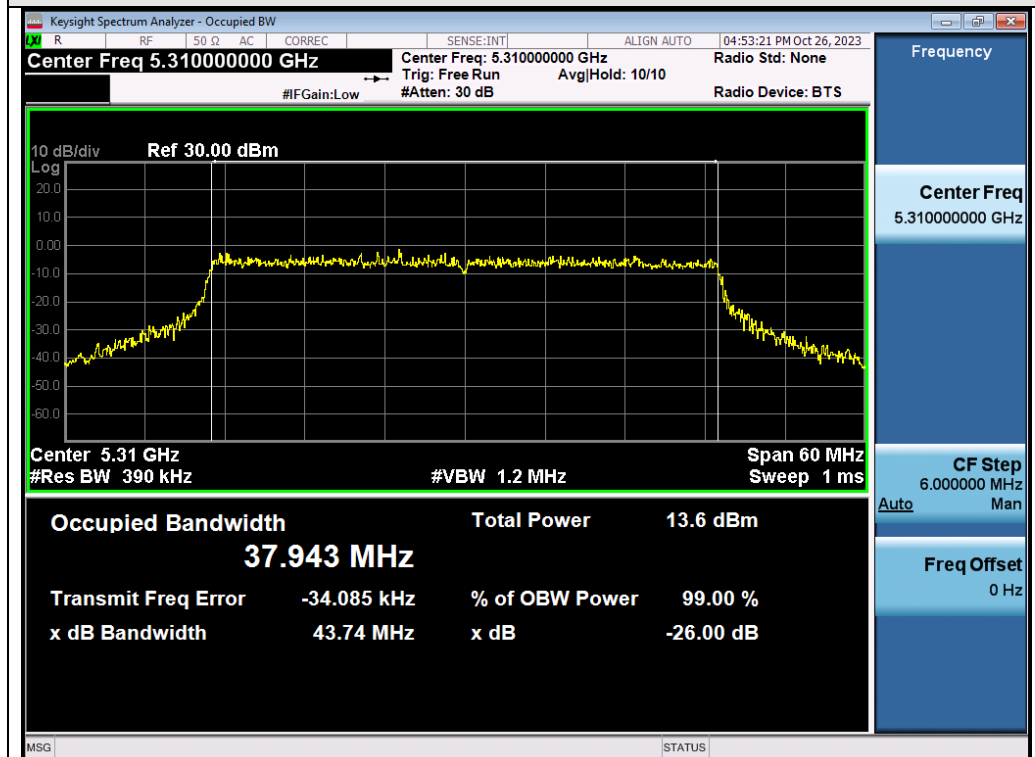
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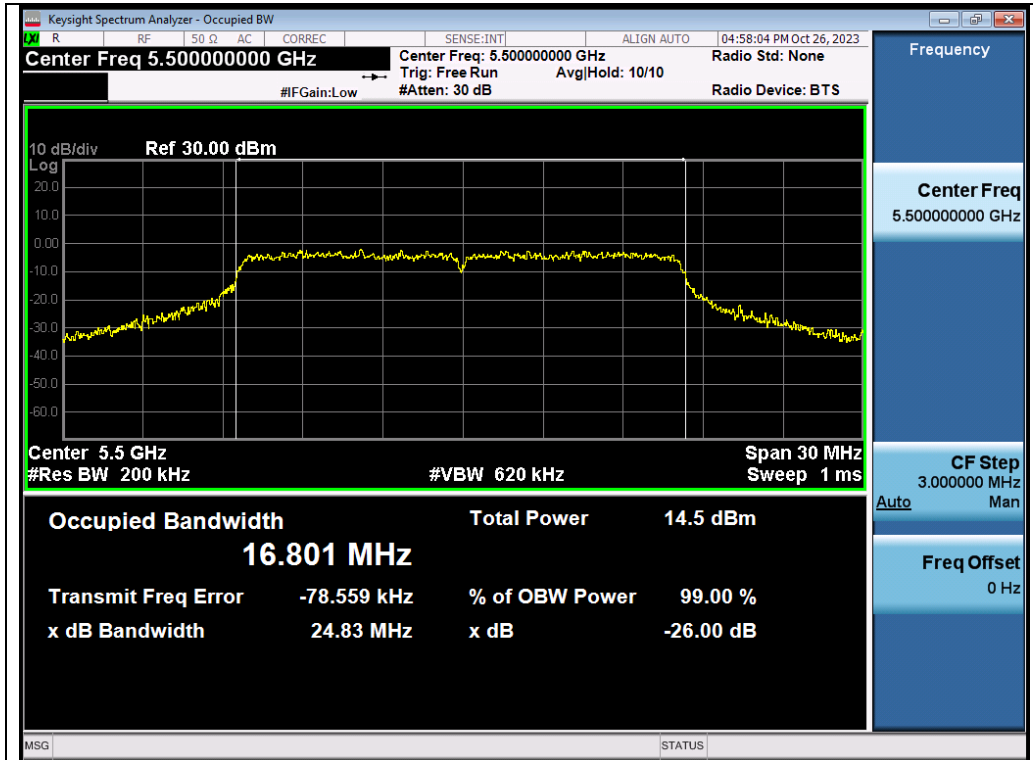
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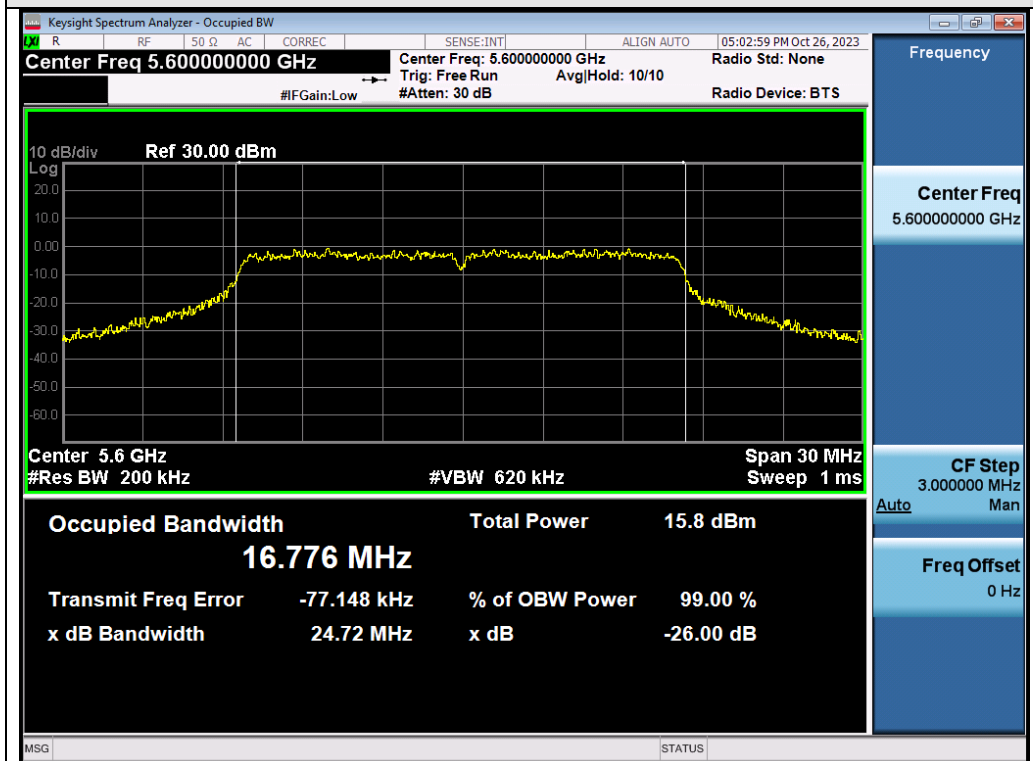
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz

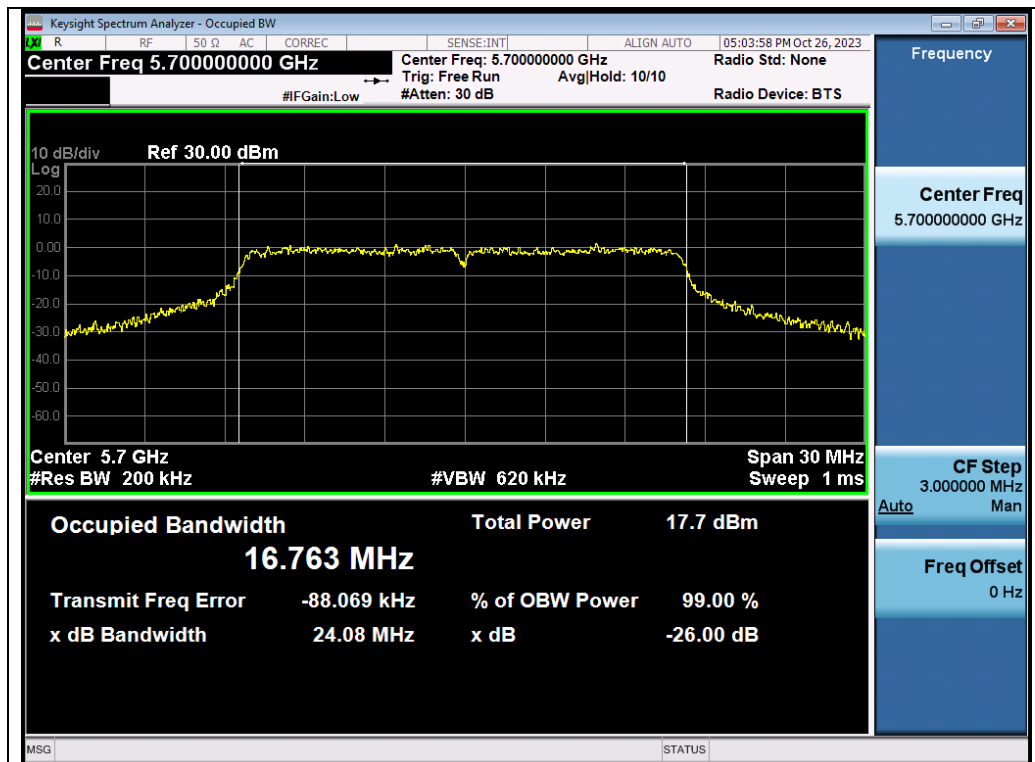


Test_Graph_802.11a_ANT1_5500_6Mbps_OBW

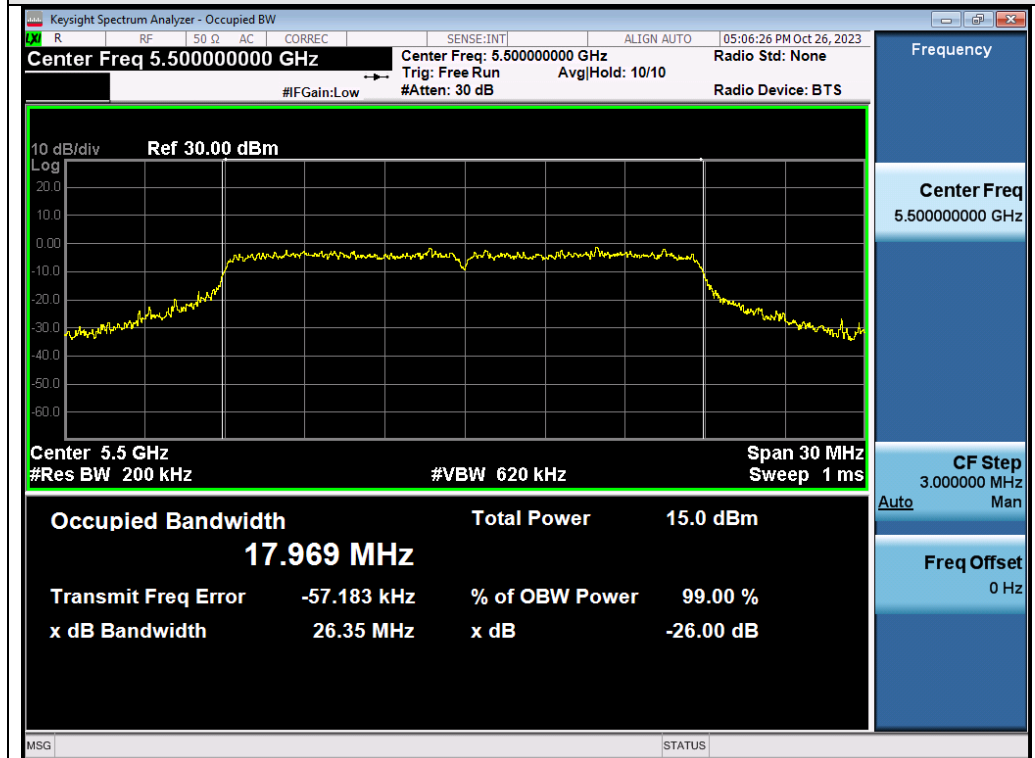


Test_Graph_802.11a_ANT1_5600_6Mbps_OBW

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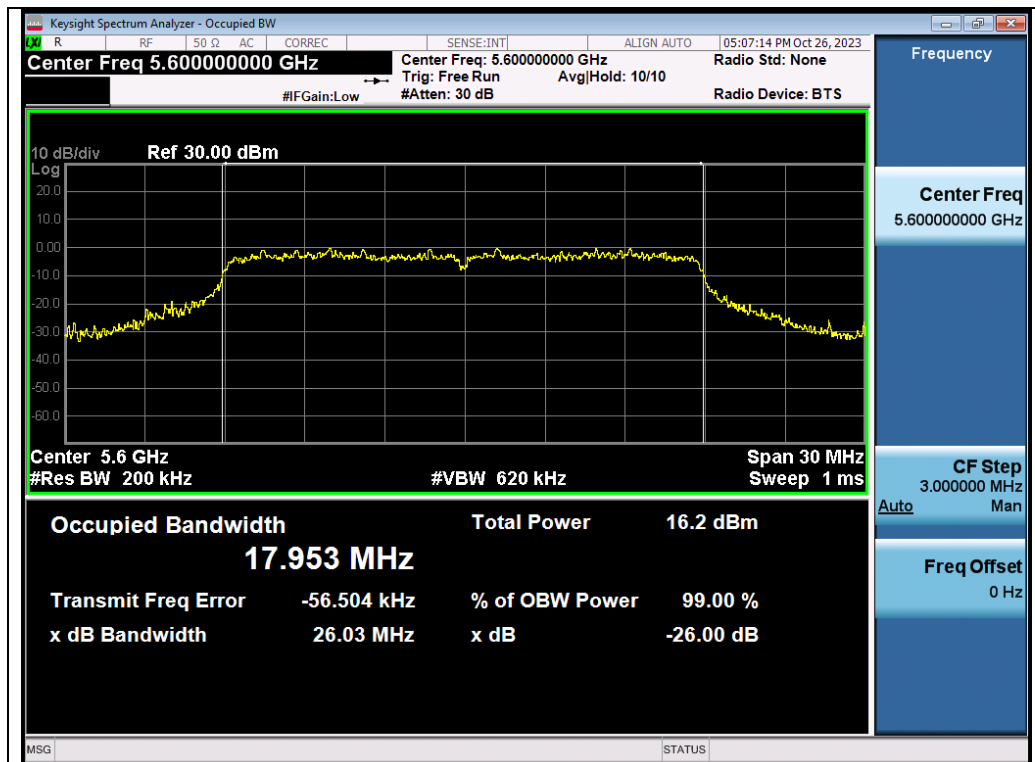


Test_Graph_802.11a_ANT1_5700_6Mbps_OBW

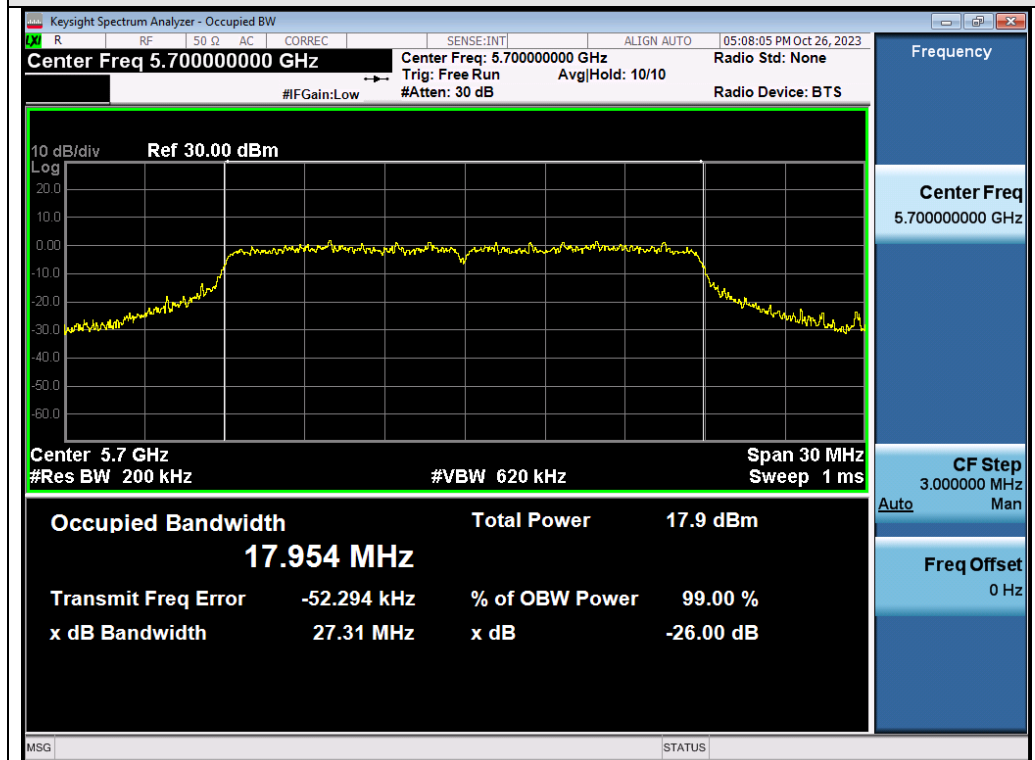


Test_Graph_802.11n20_ANT1_5500_MCS0_OBW

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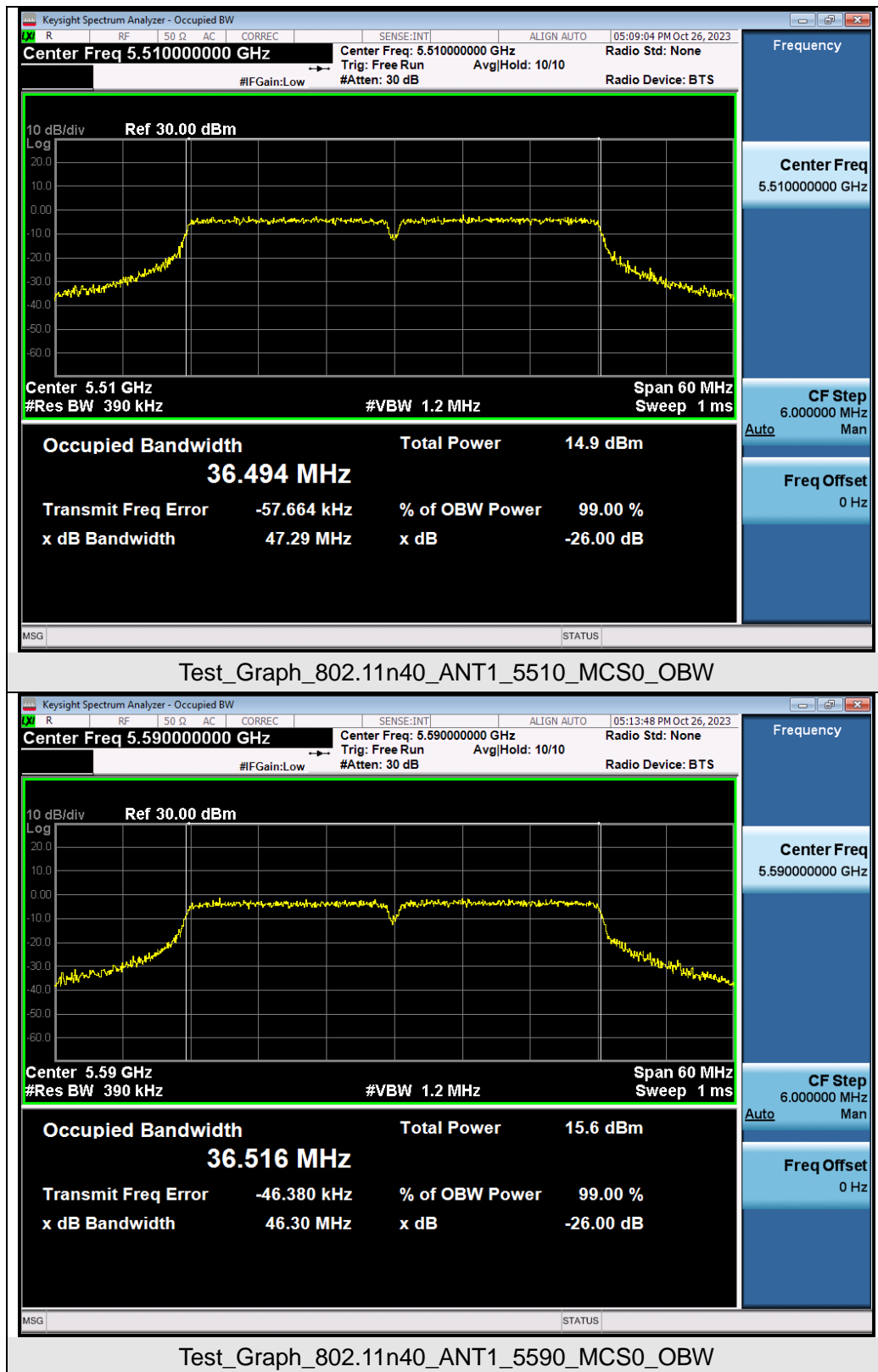


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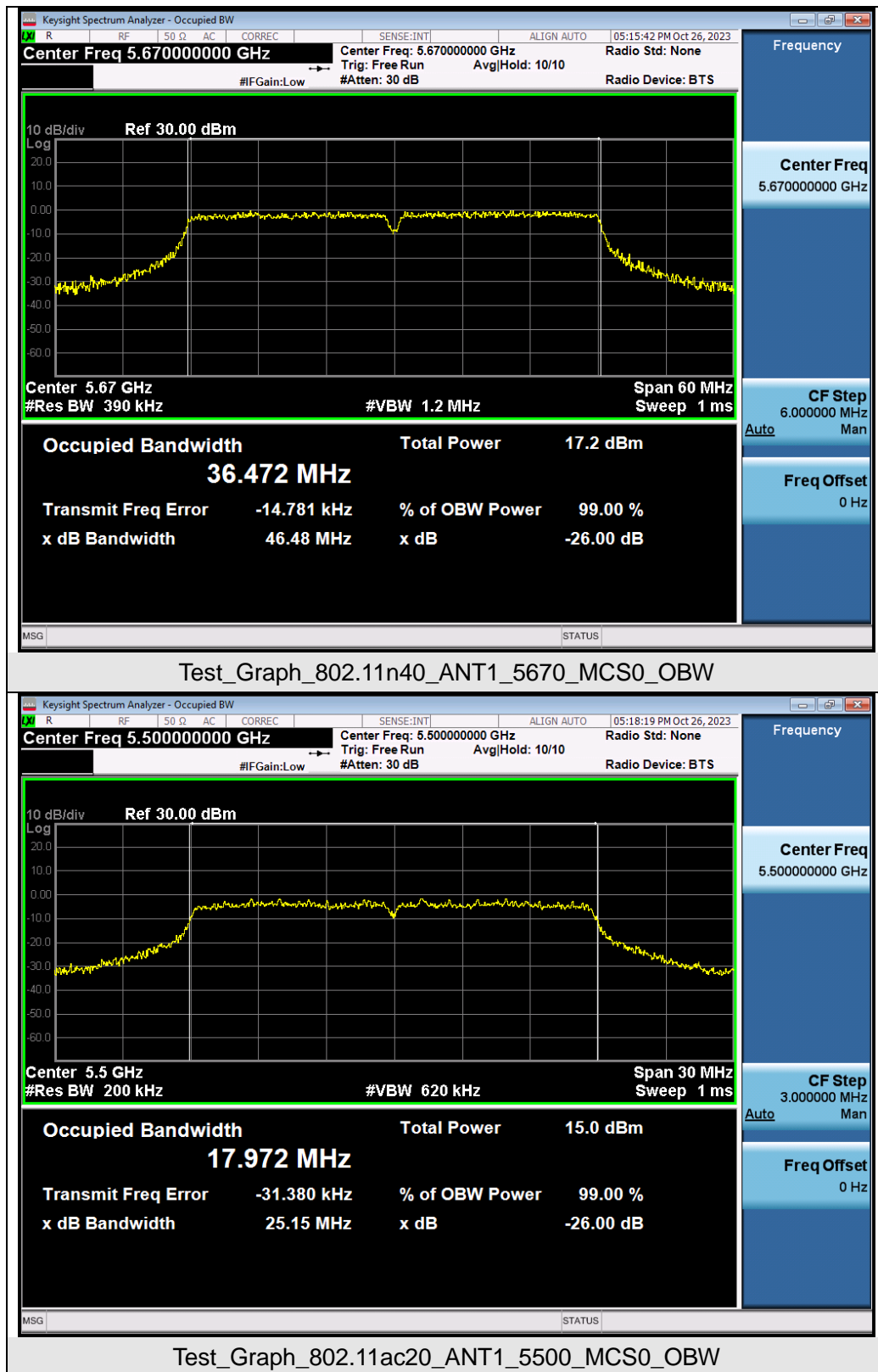


Test_Graph_802.11n20_ANT1_5700_MCS0_OBW

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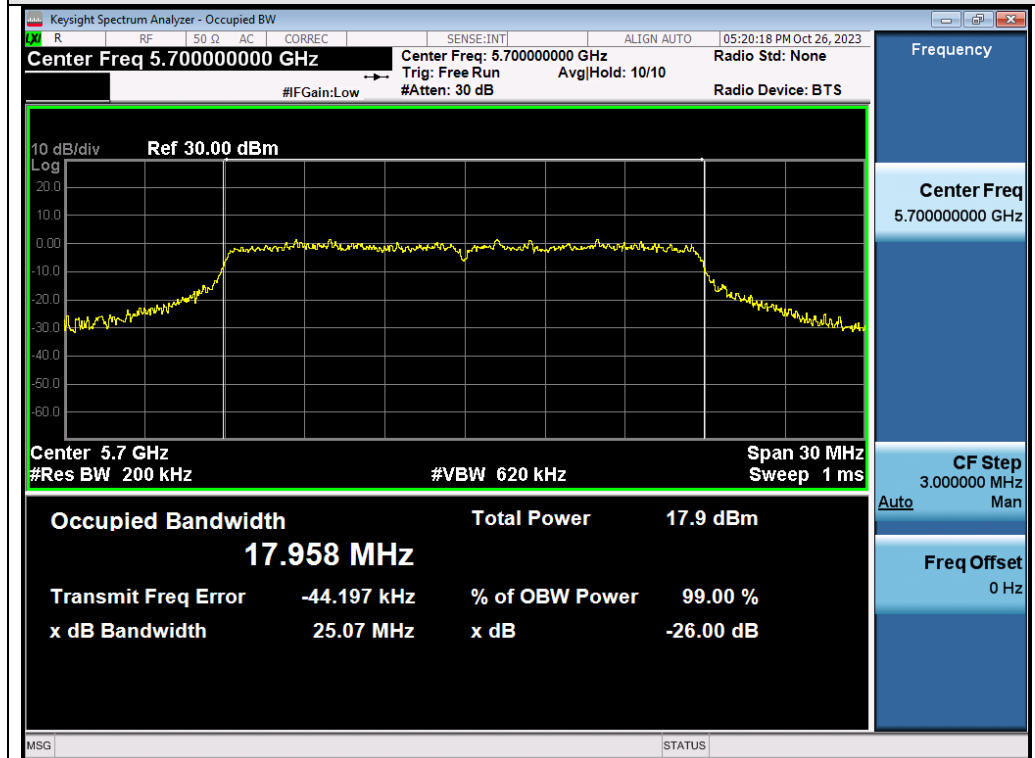
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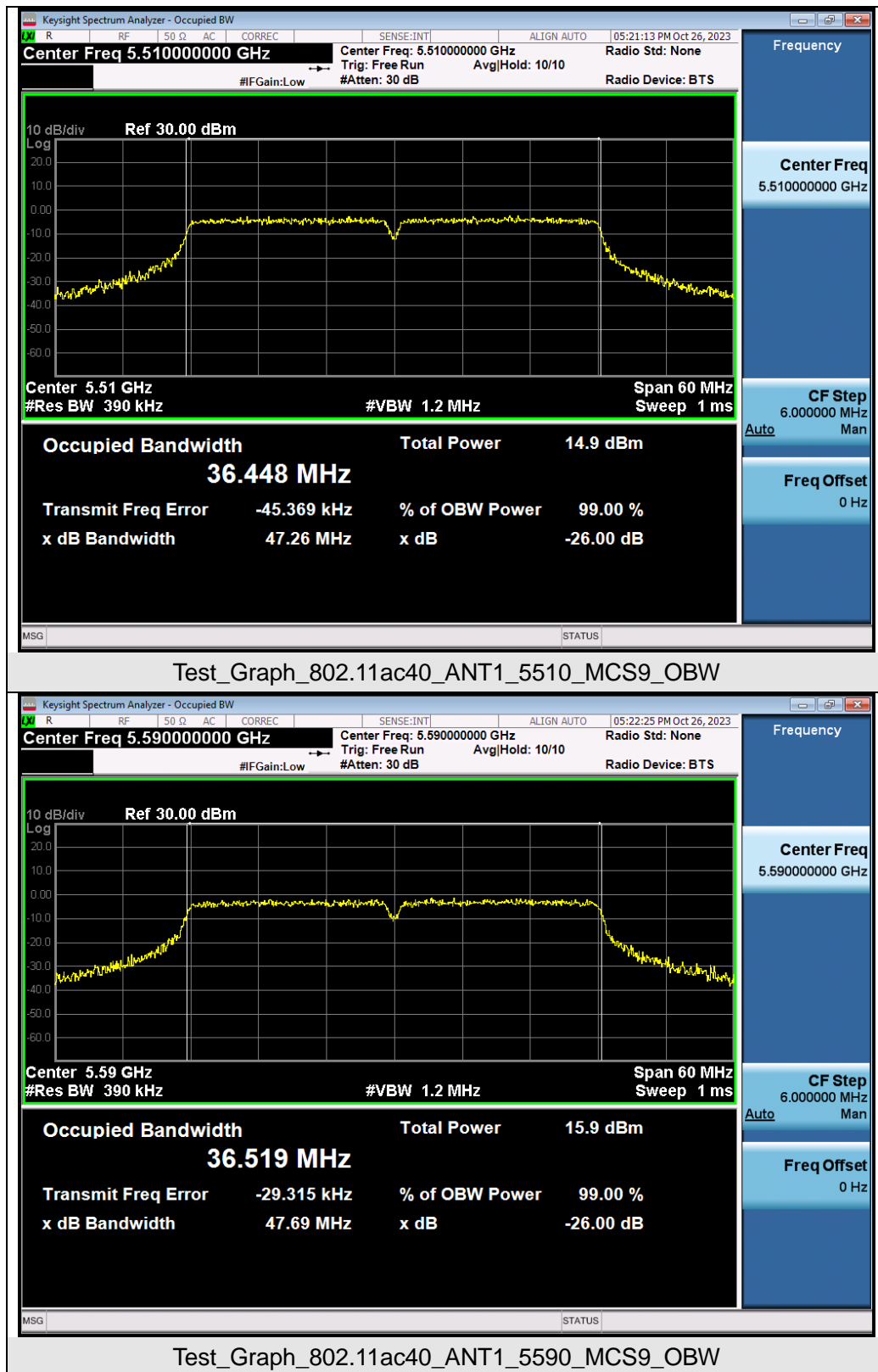


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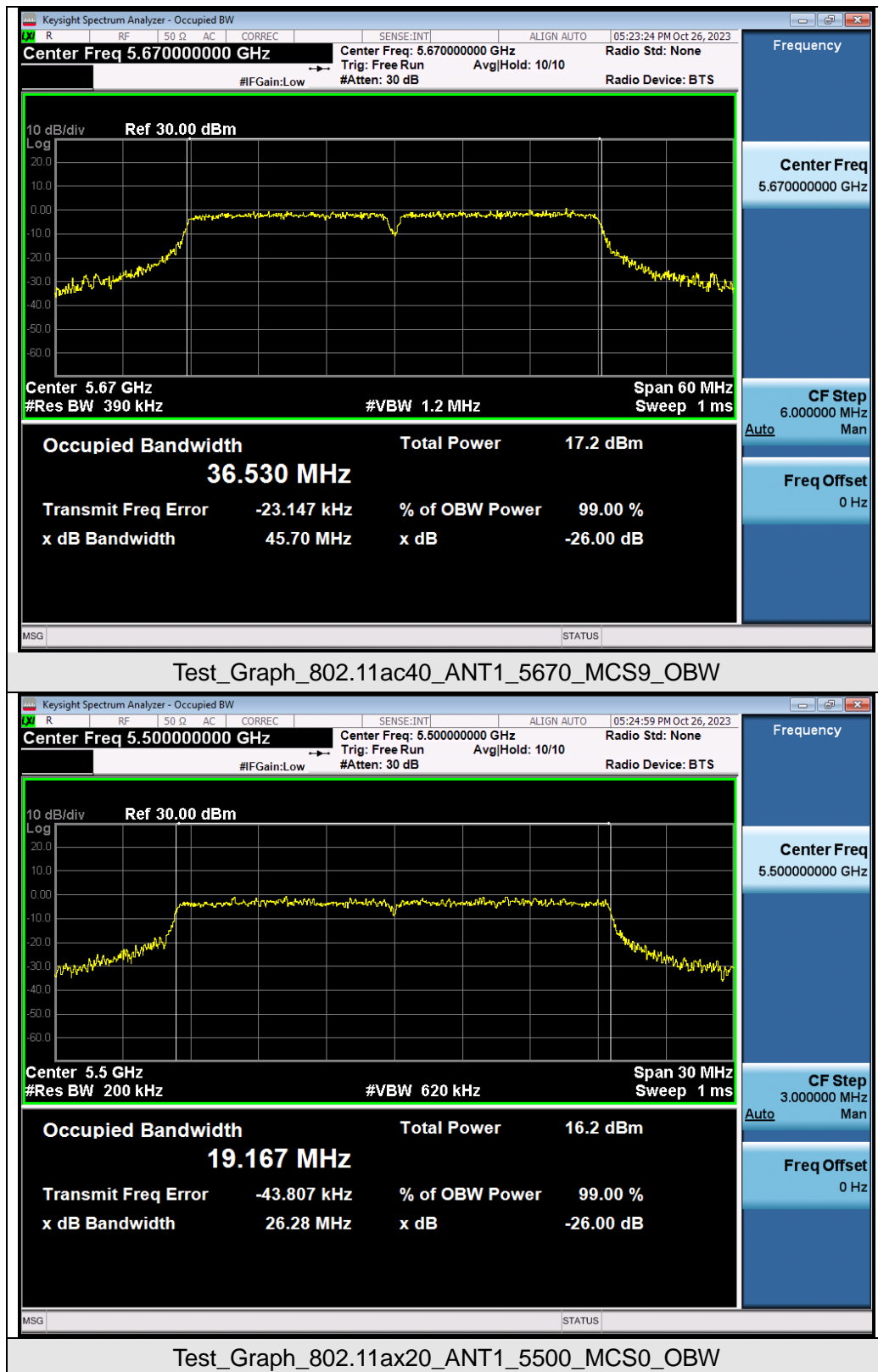


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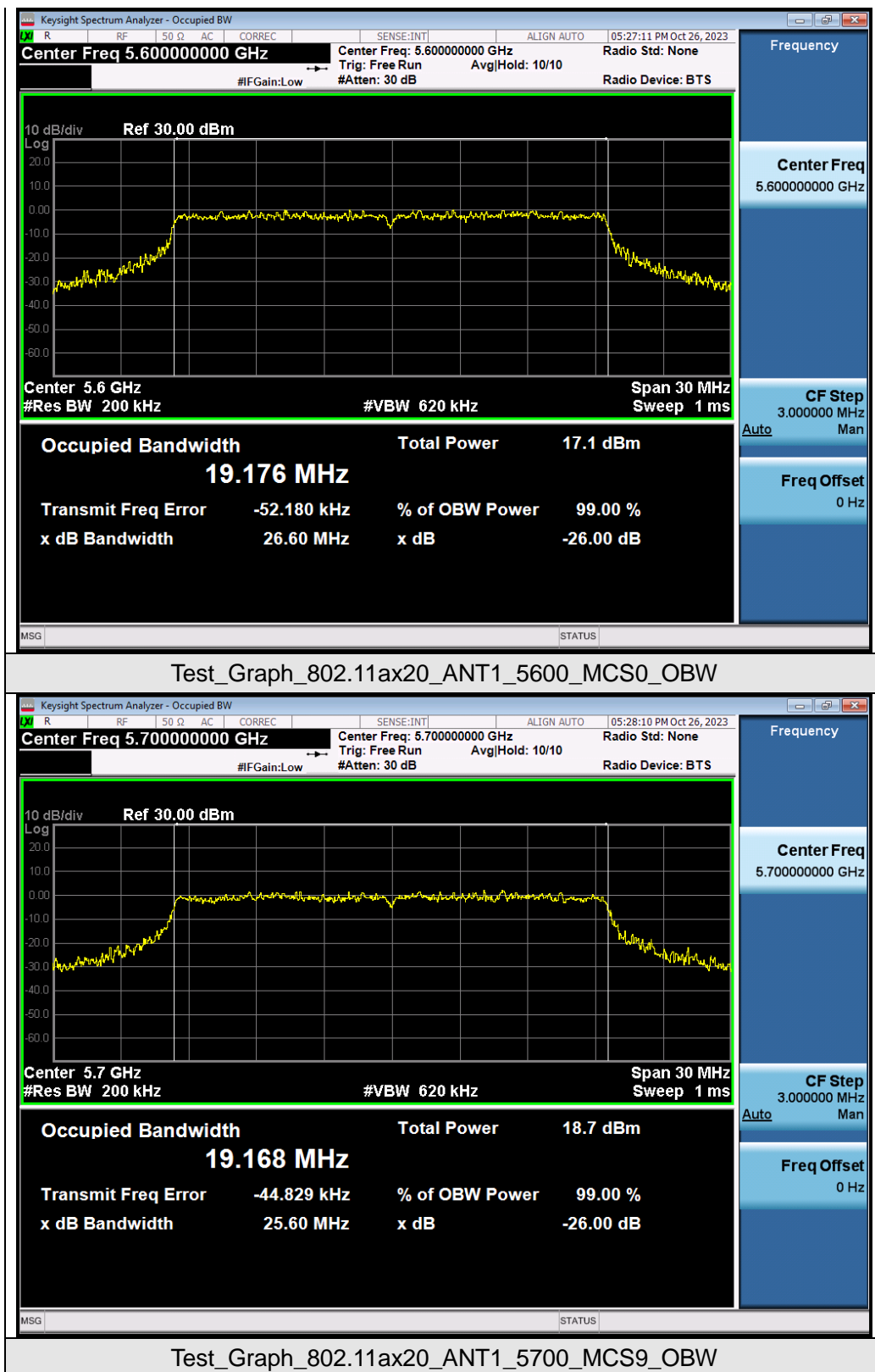
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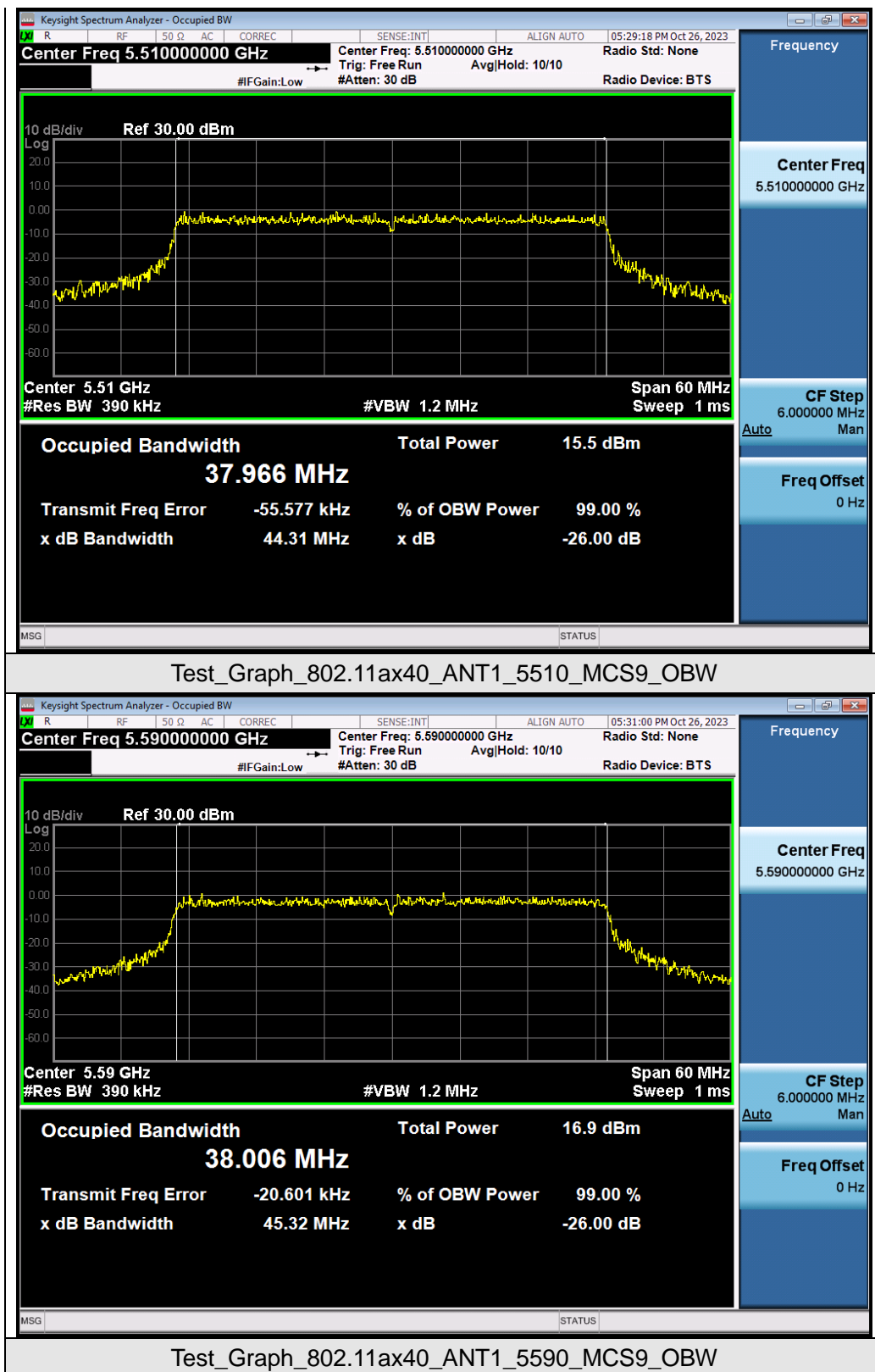


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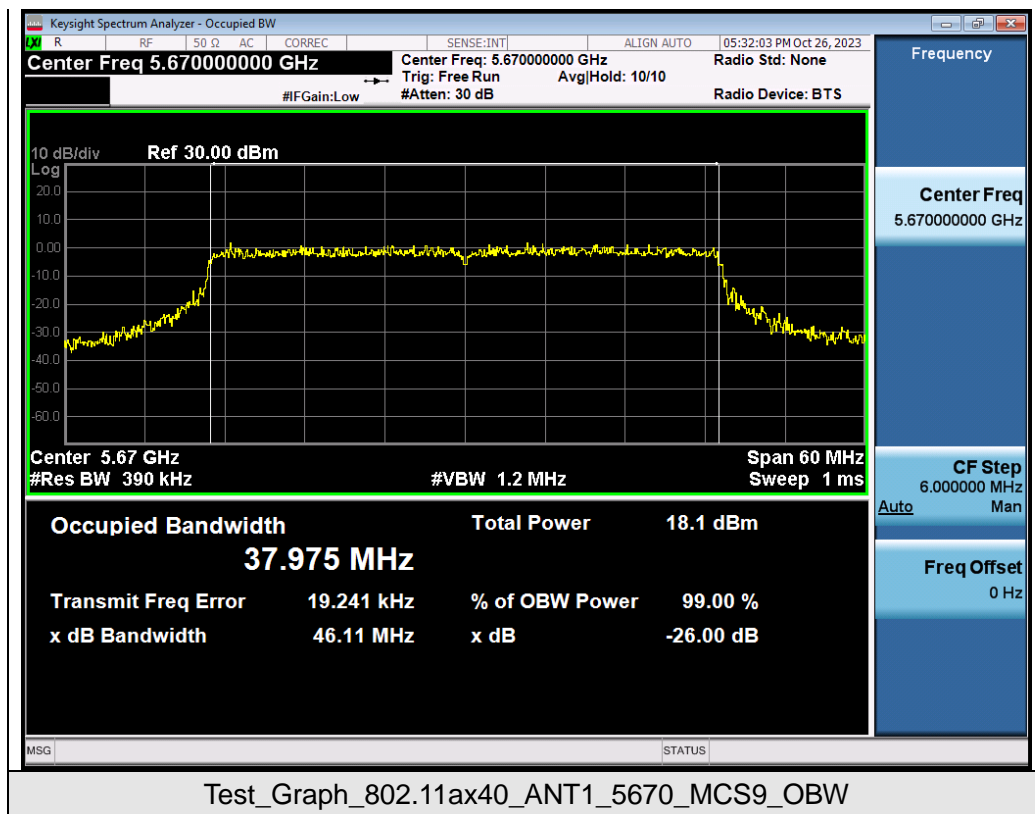
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

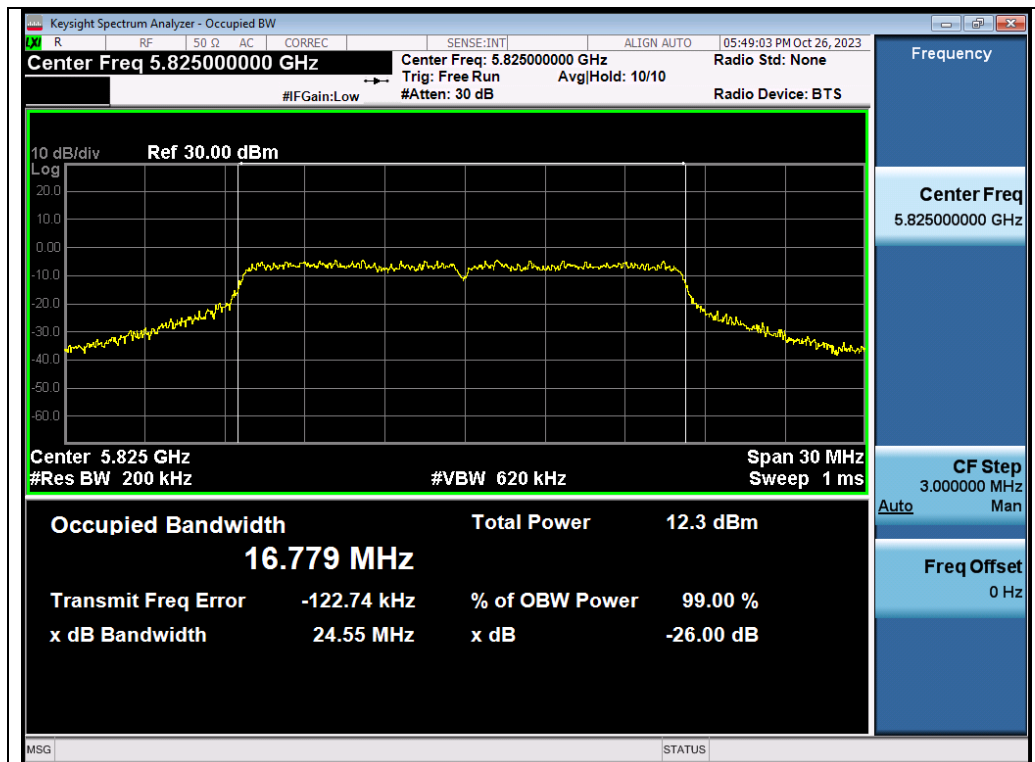


Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

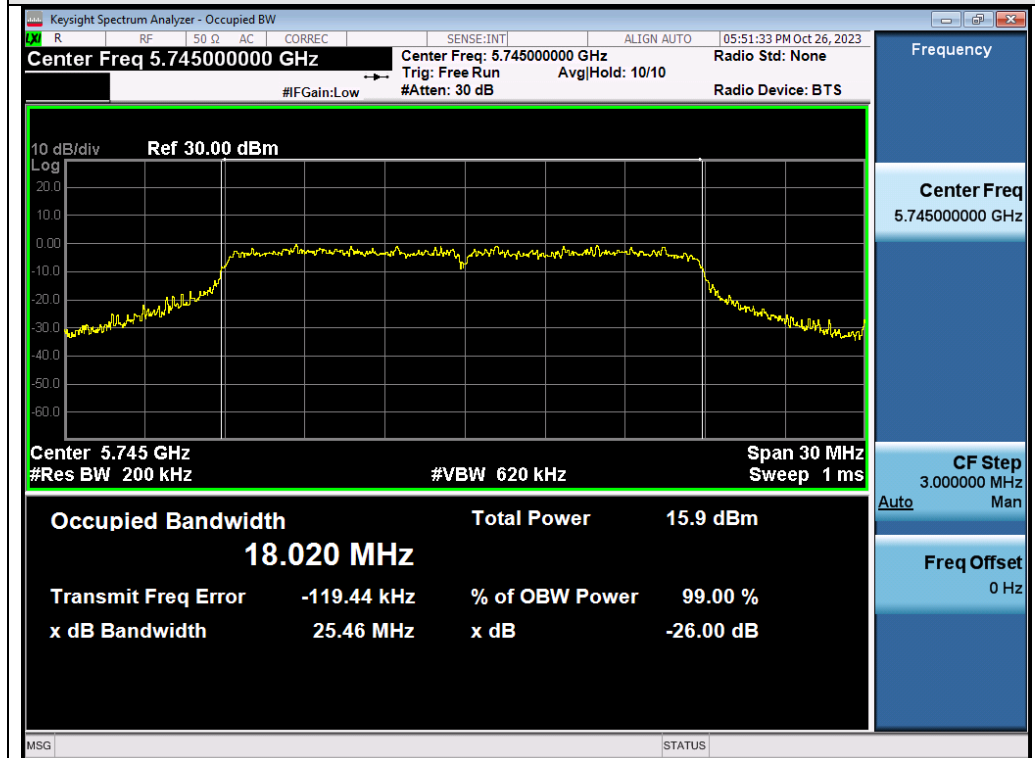


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5825_6Mbps_OBW

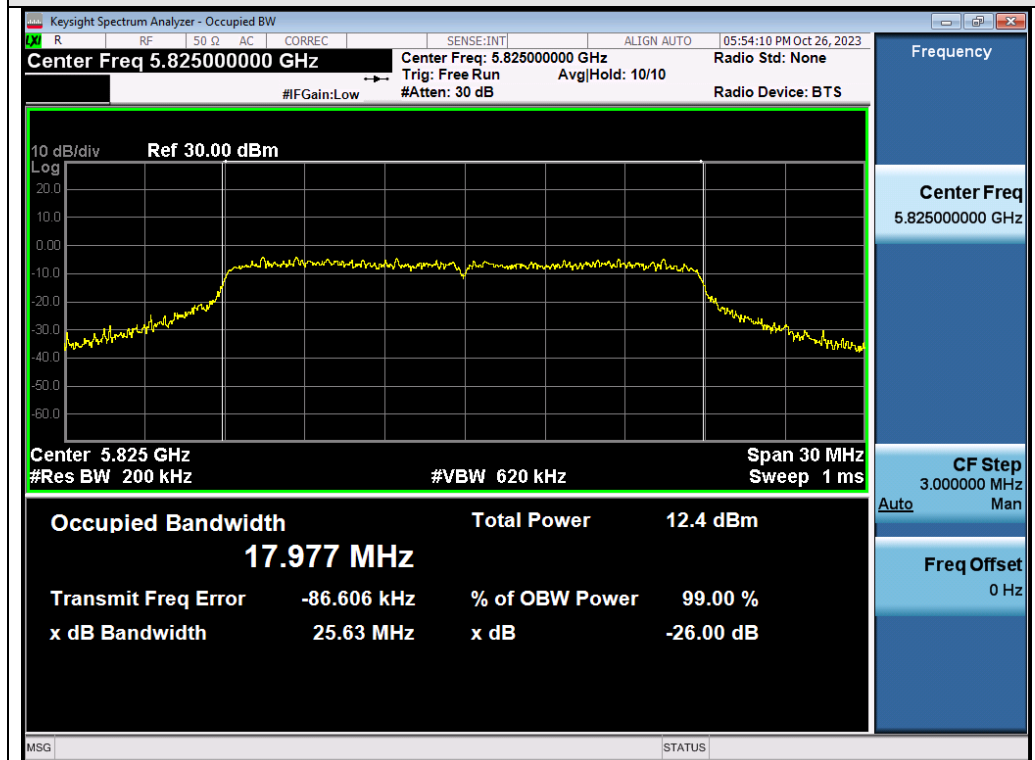


Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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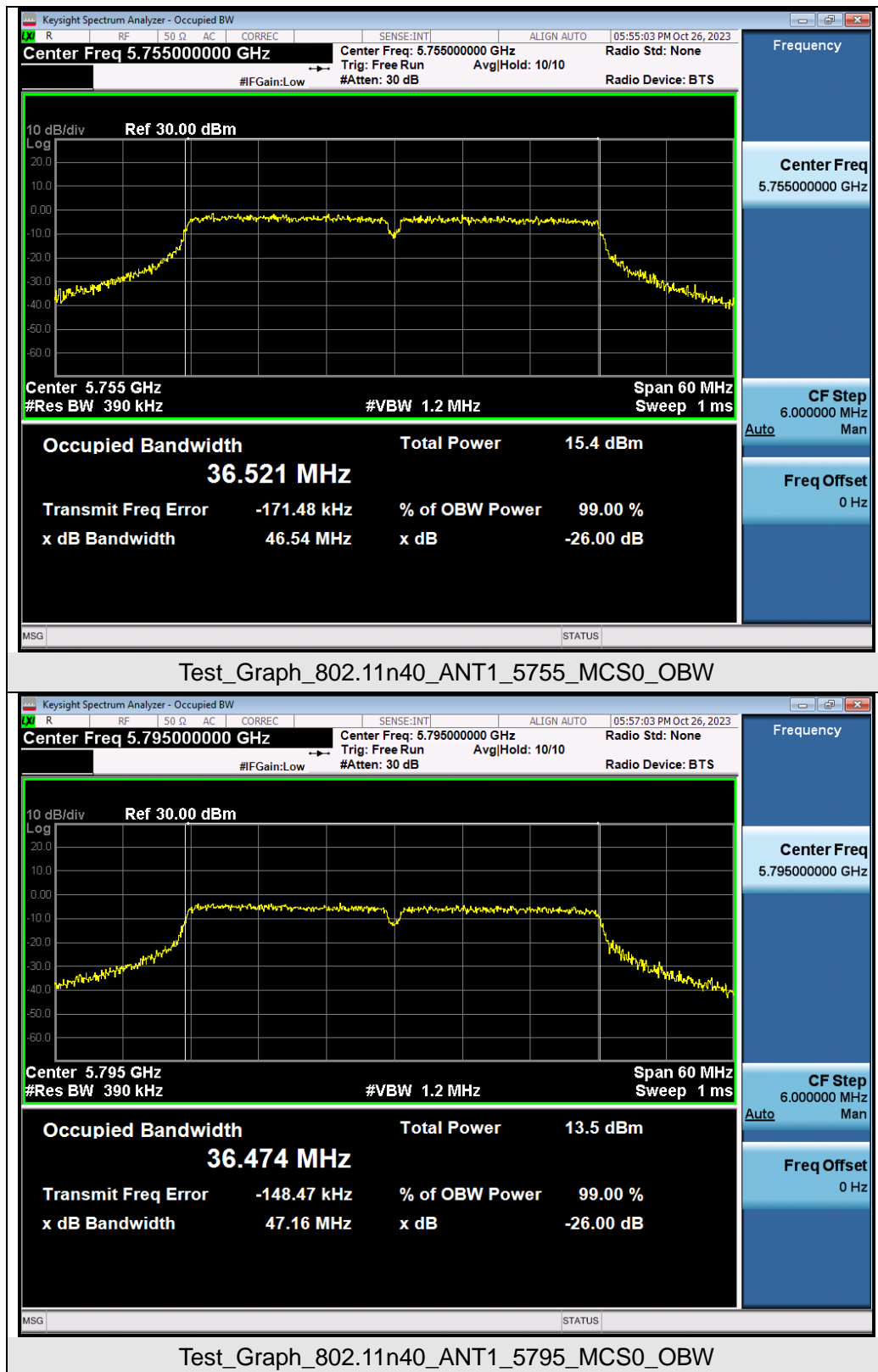


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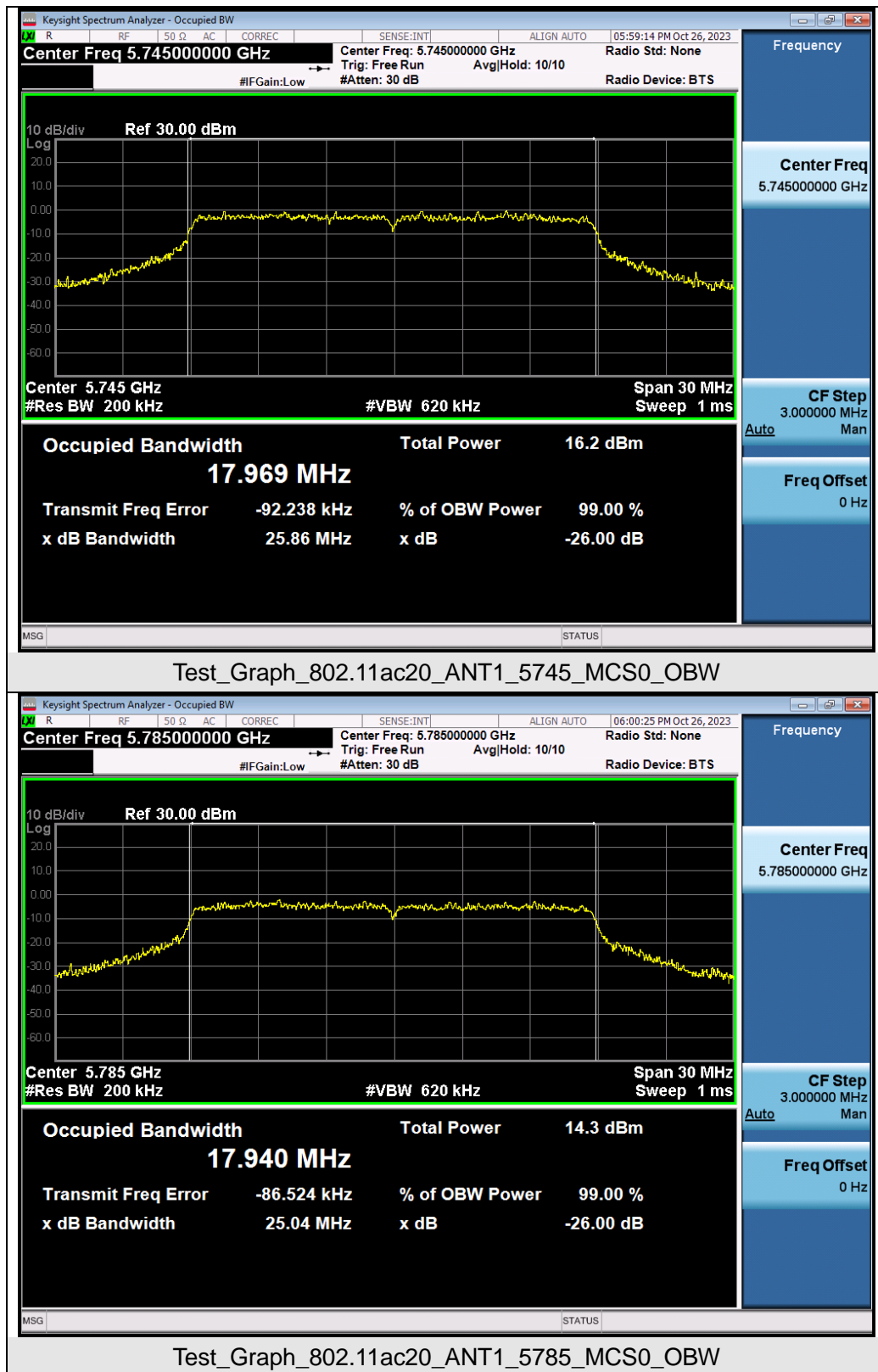


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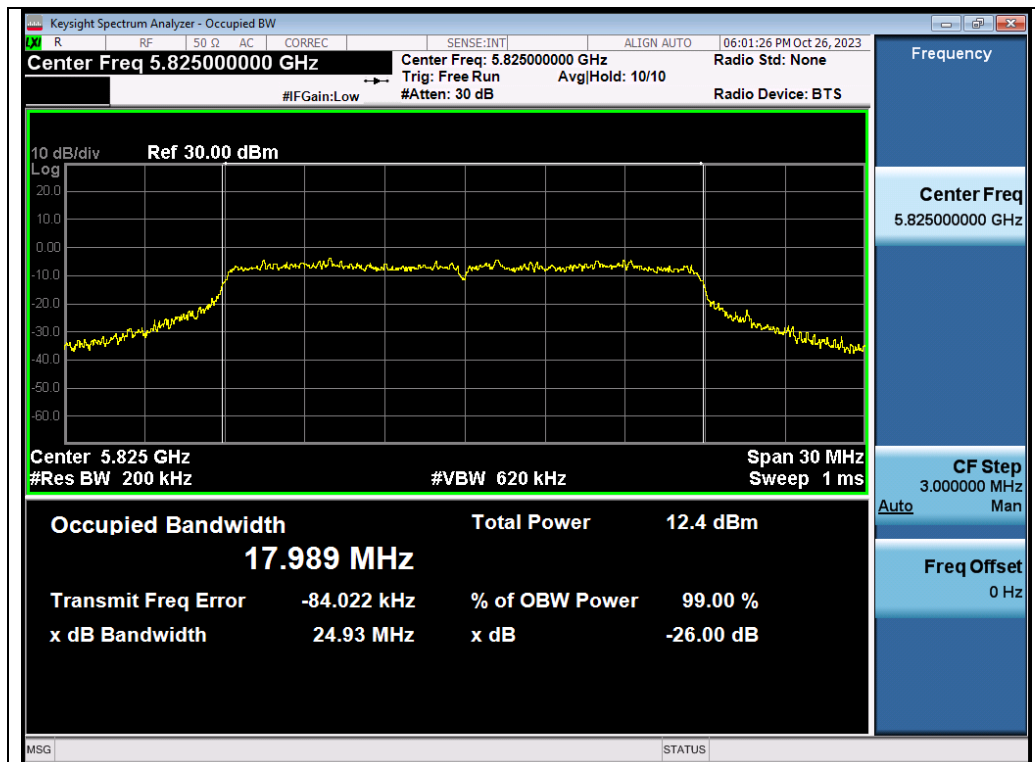
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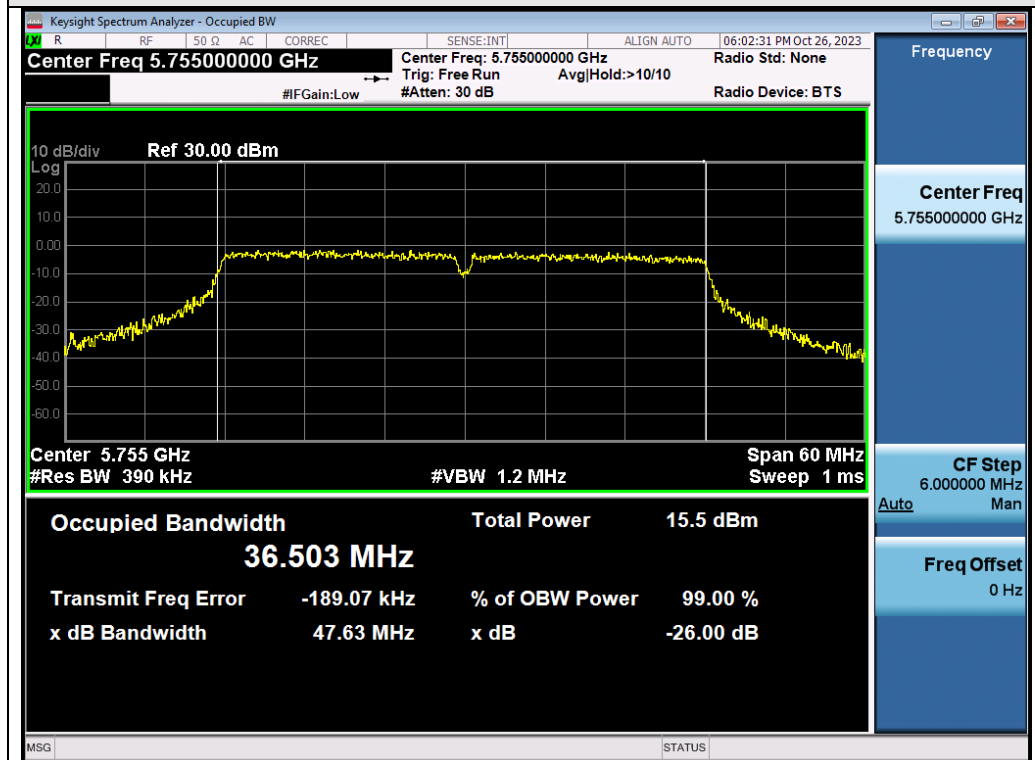
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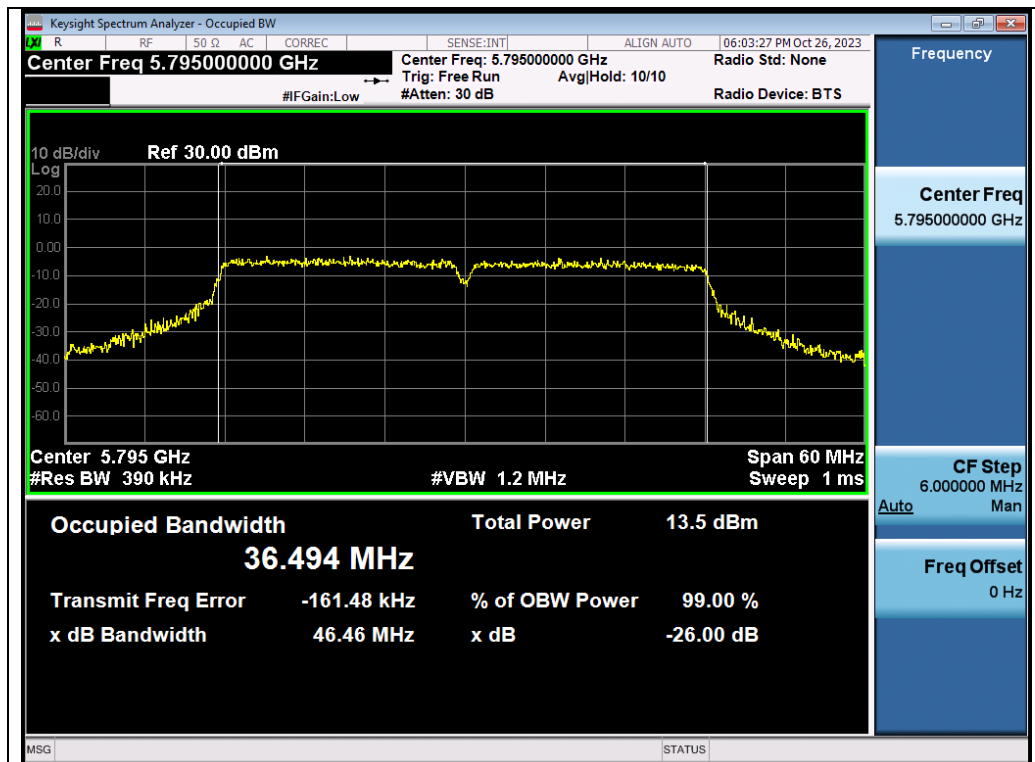


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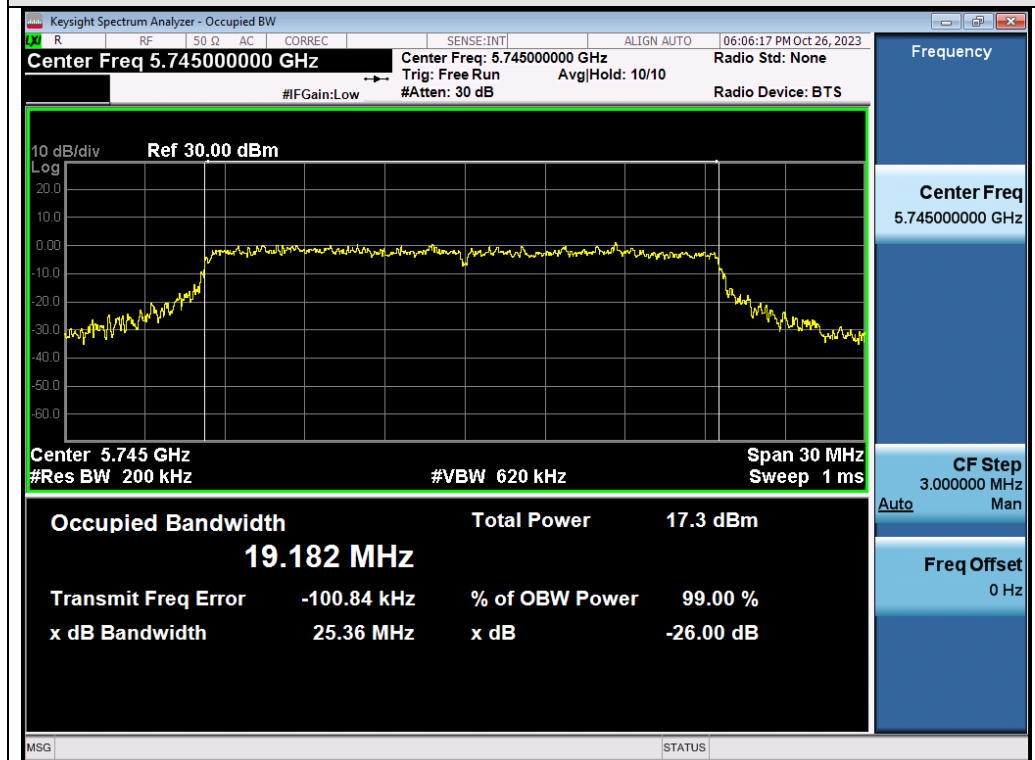


Test_Graph_802.11ac40_ANT1_5755_MCS9_OBW

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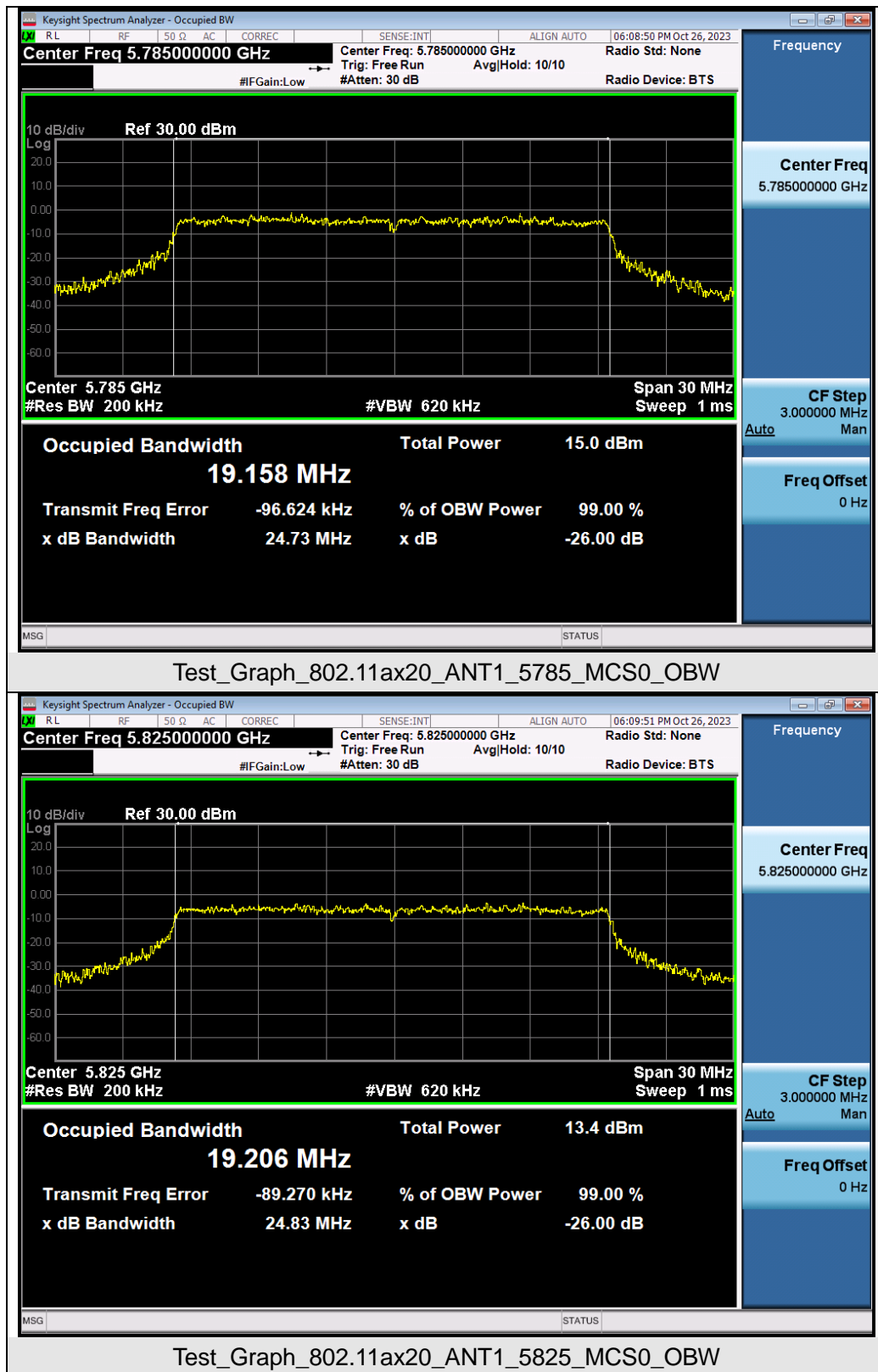


Test_Graph_802.11ac40_ANT1_5795_MCS9_OBW

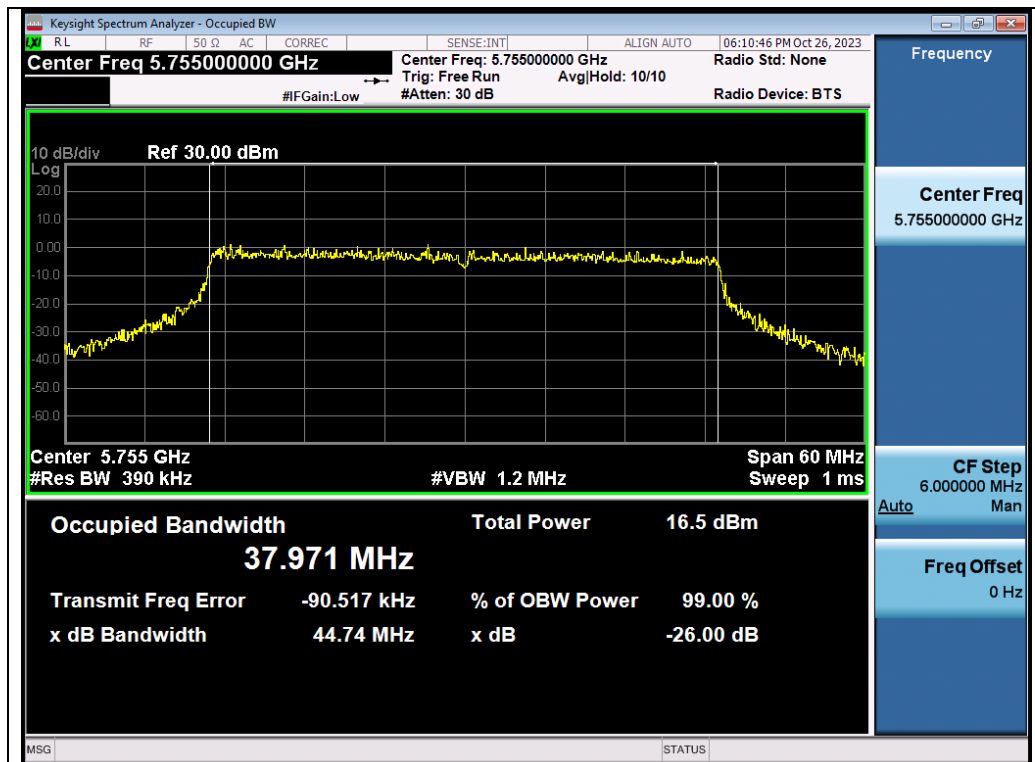


Test_Graph_802.11ax20_ANT1_5745_MCS0_OBW

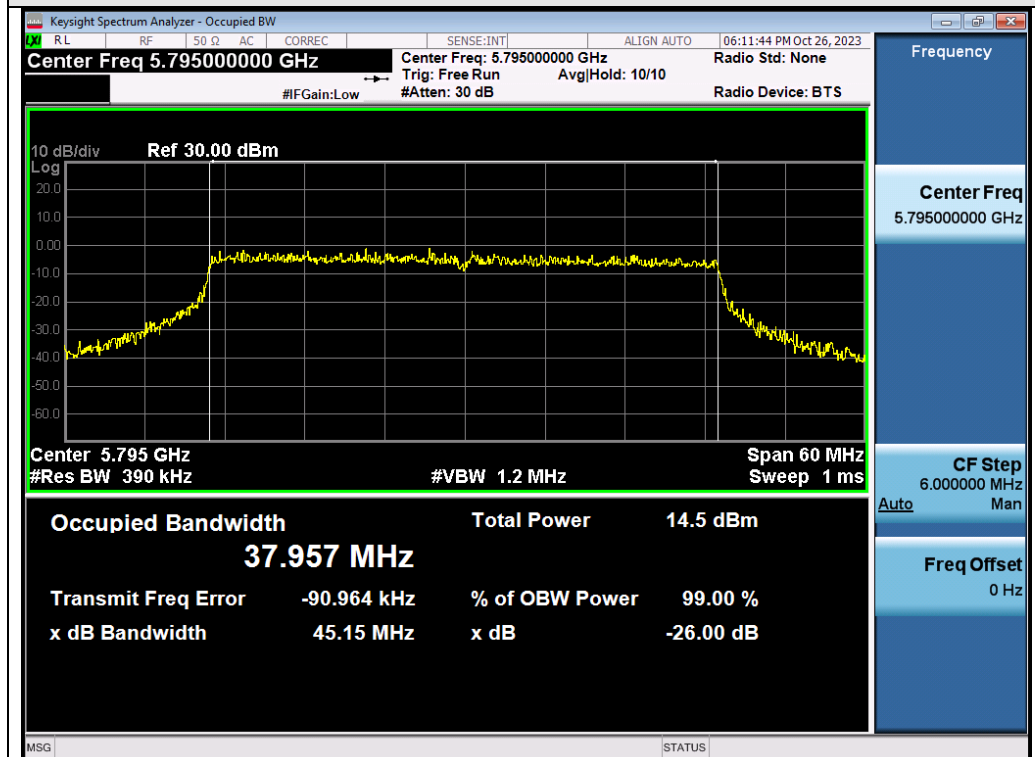
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Test_Graph_802.11ax40_ANT1_5755_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5795_MCS0_OBW

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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

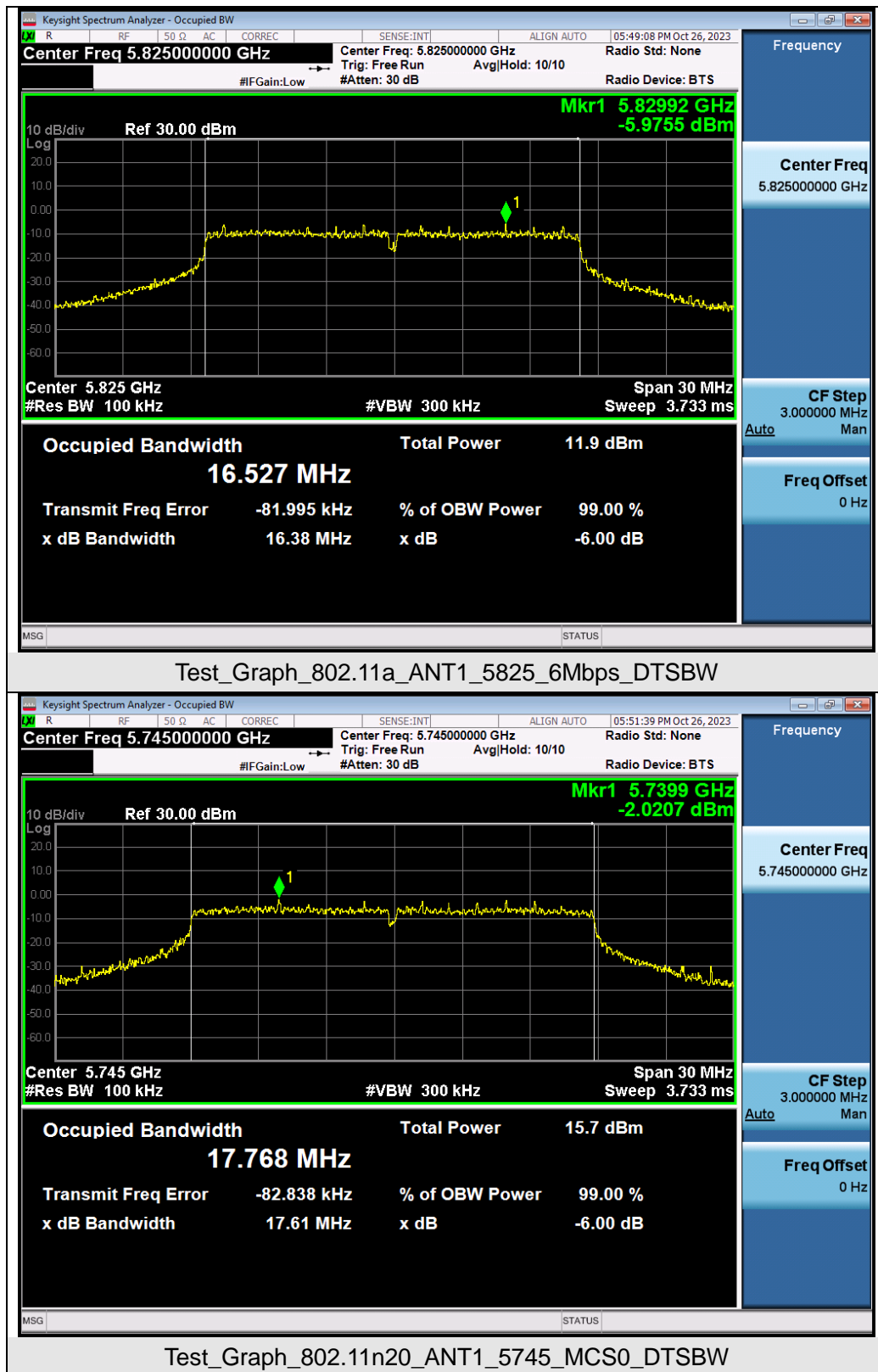


Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

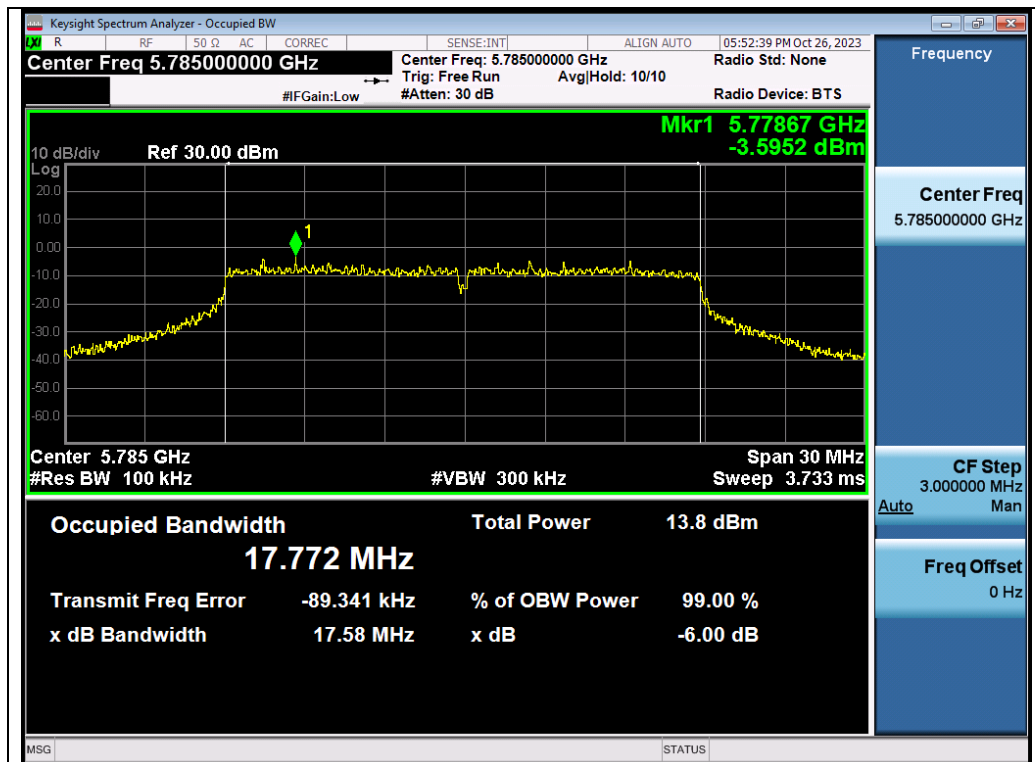


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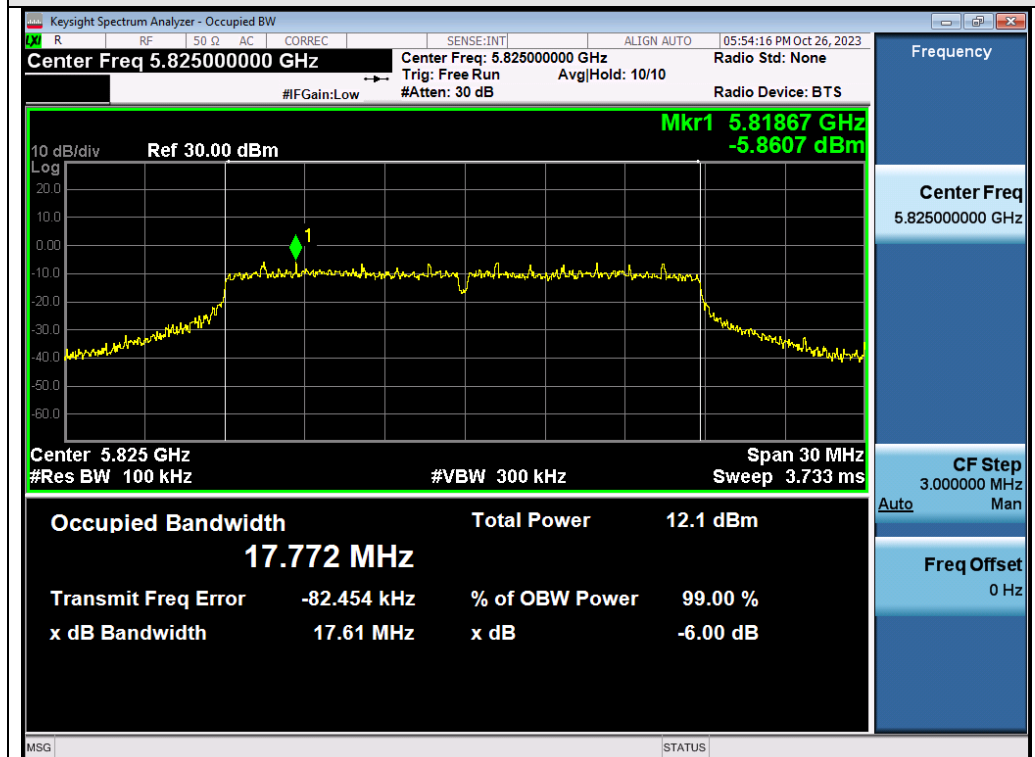
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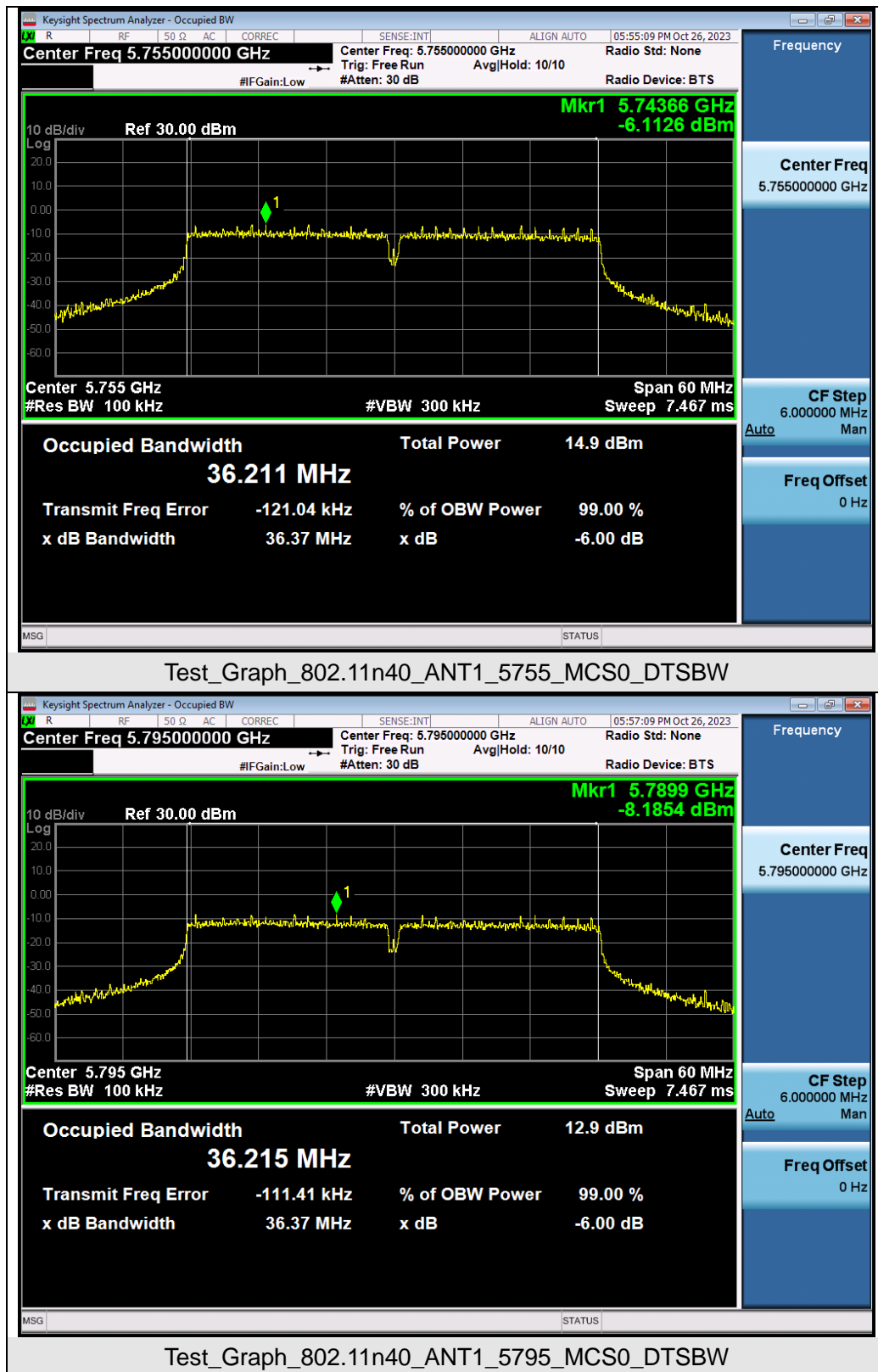


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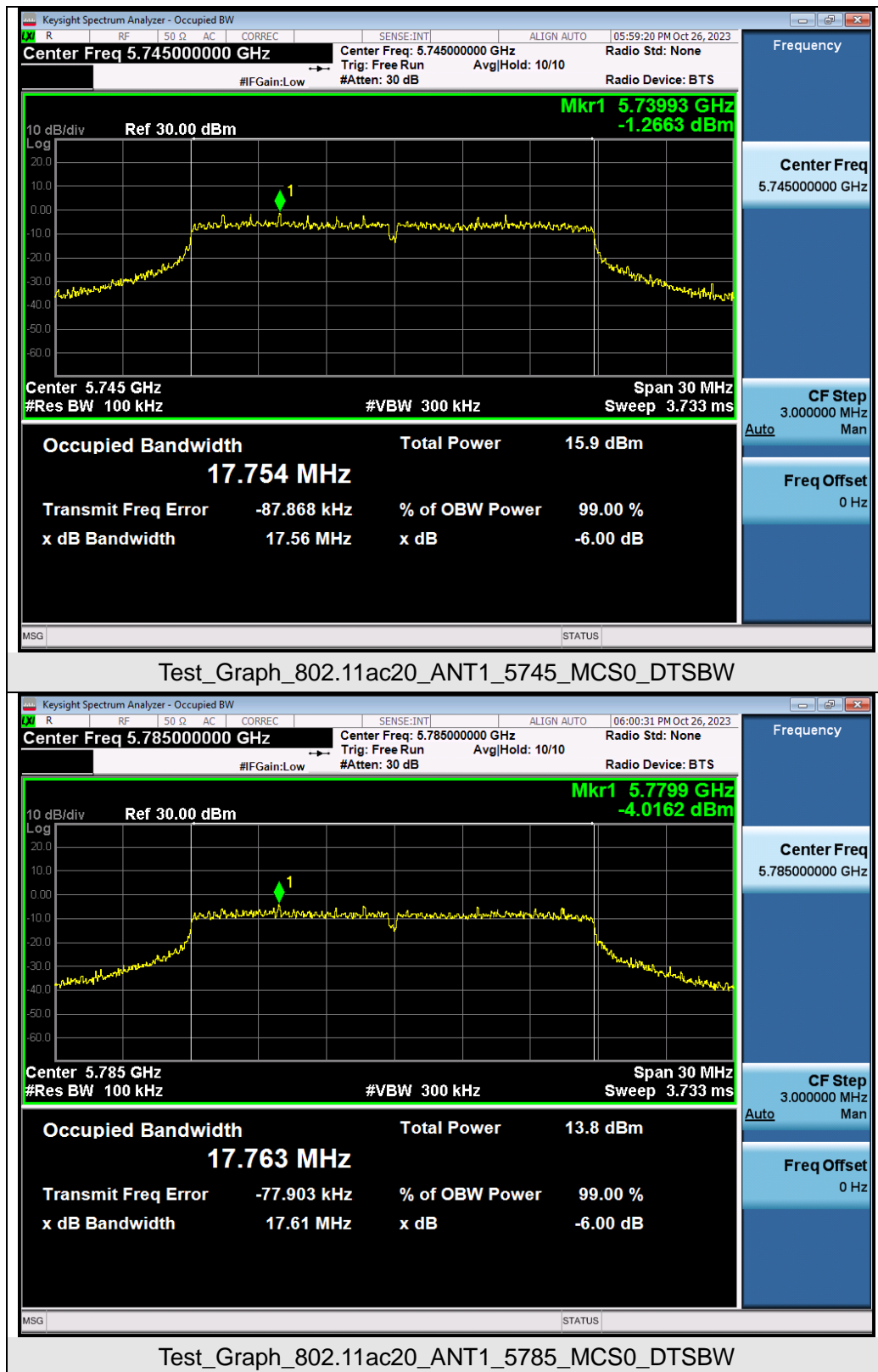


Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW

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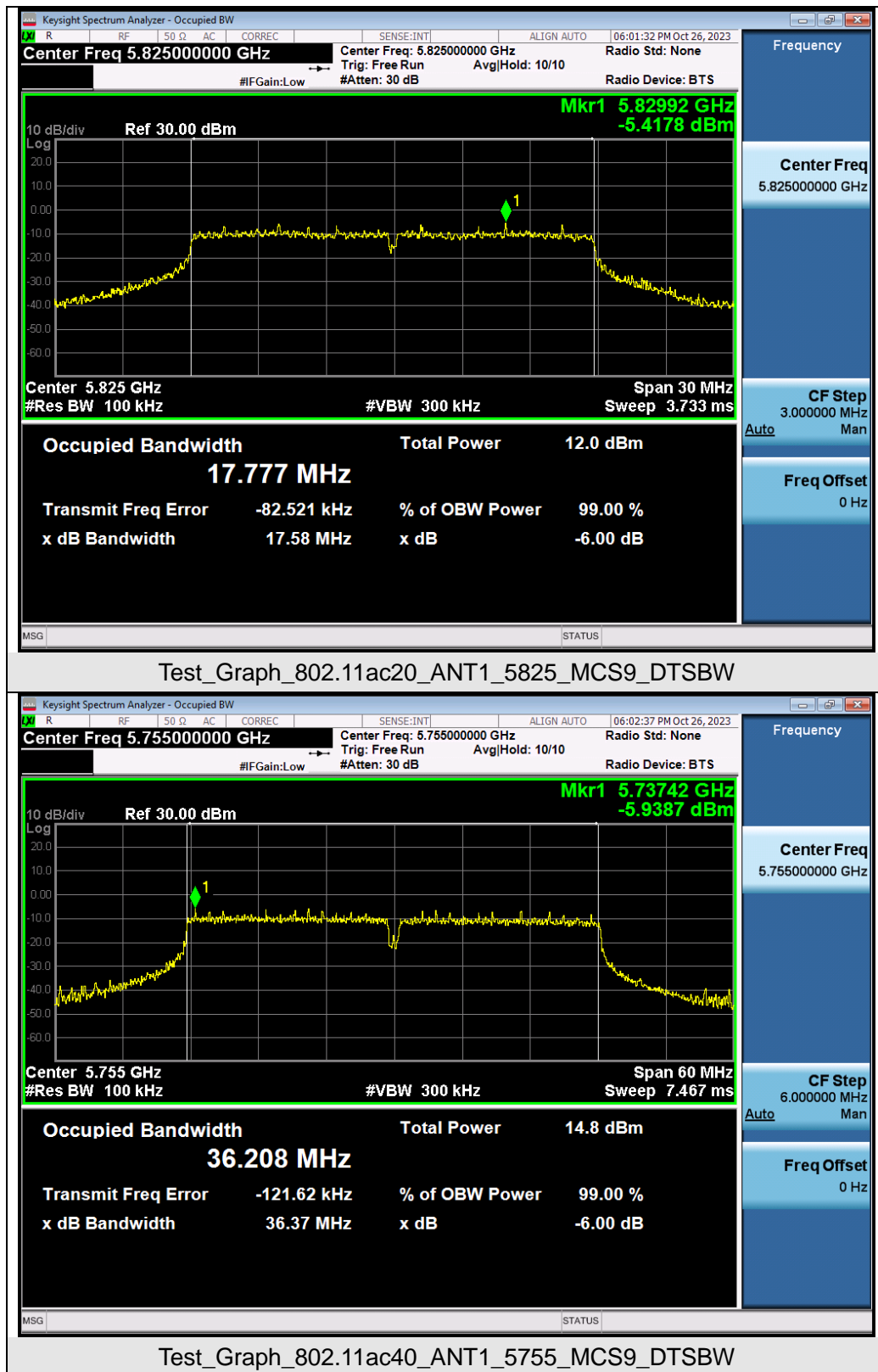


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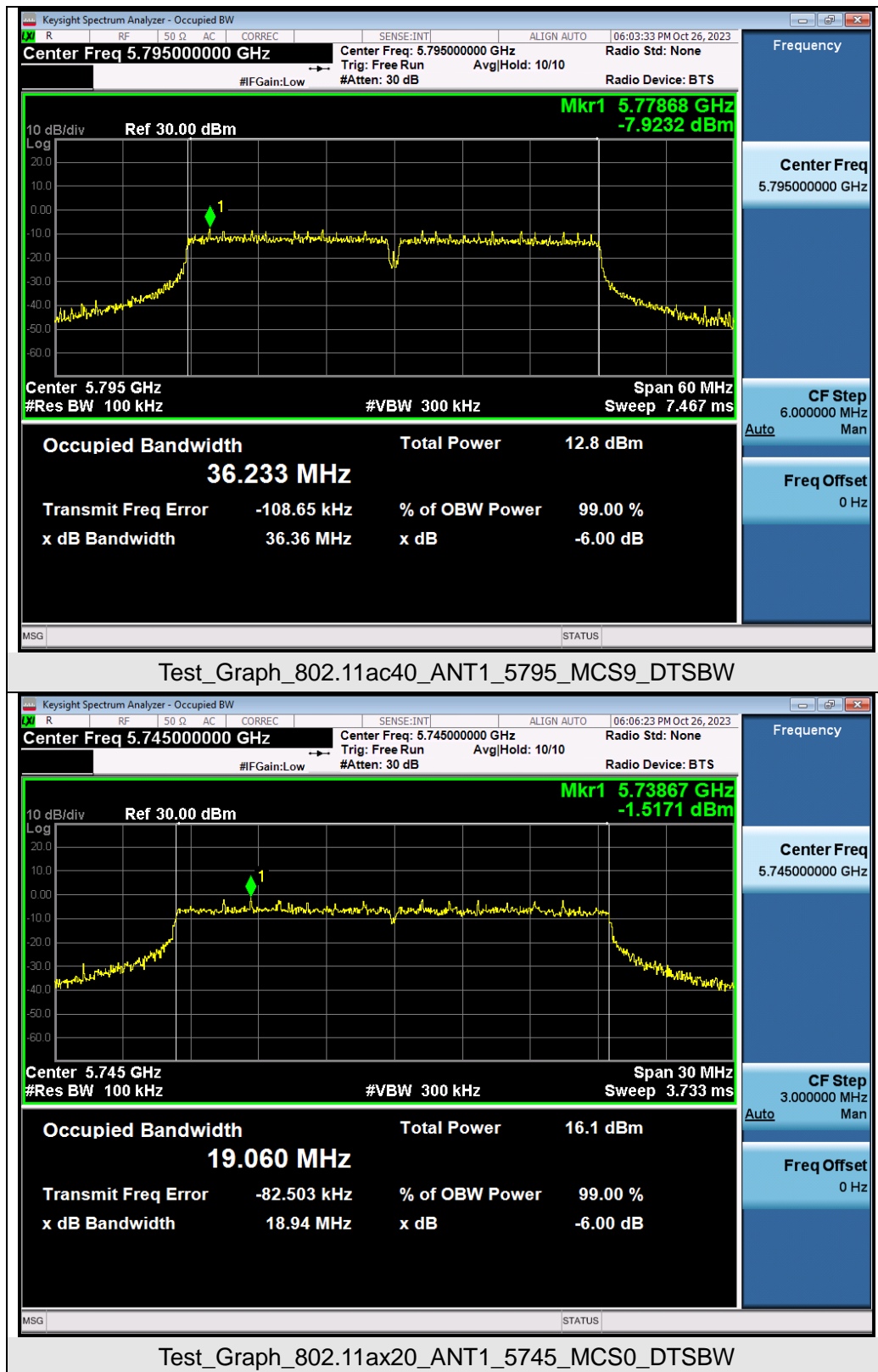
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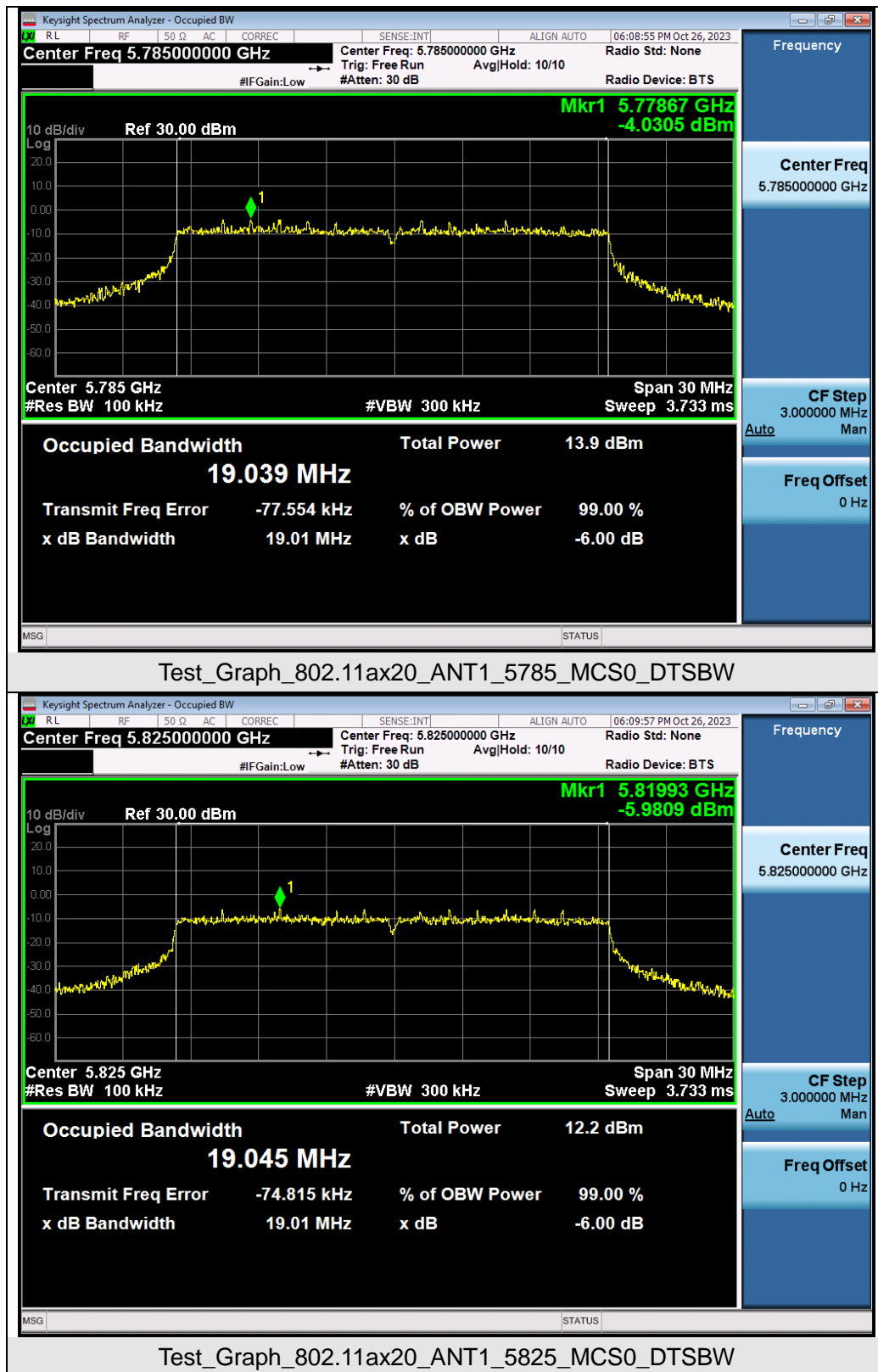


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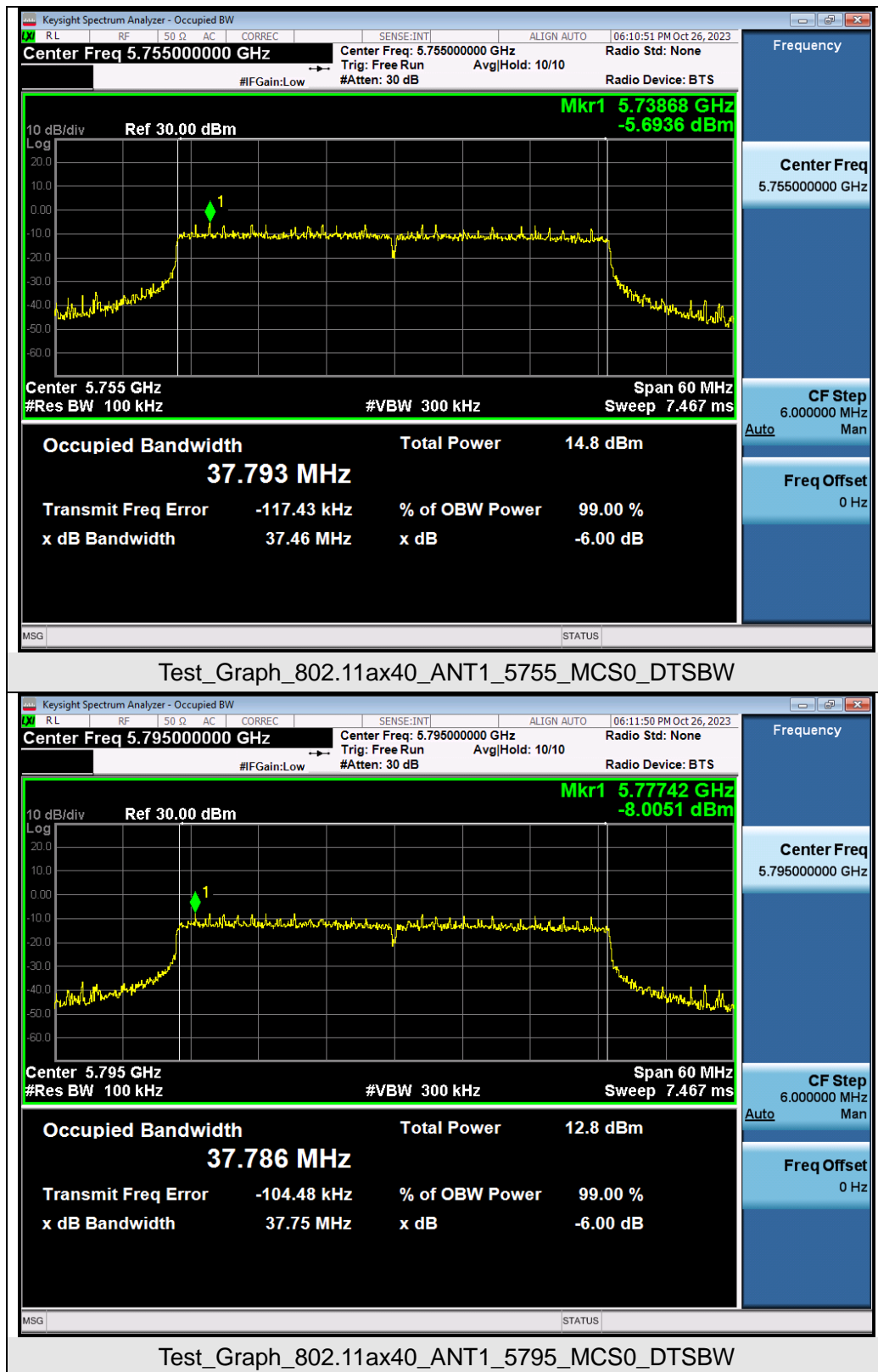
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9. Power Spectral Density Measurement

9.1 Provisions Applicable

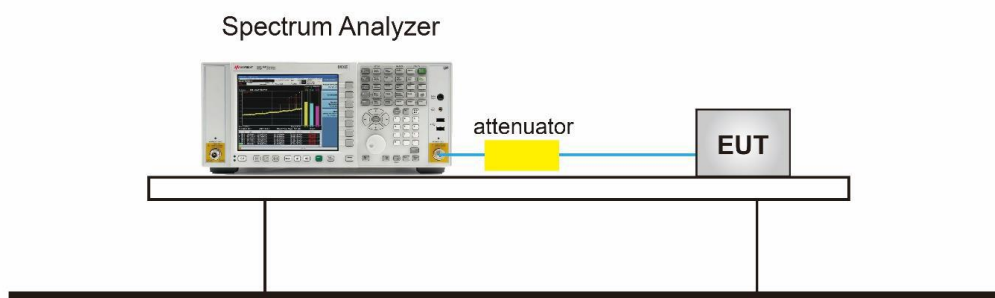
Operation Band	EUT Category		LIMIT
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	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

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 $\geq [3 \times \text{RBW}]$.
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	-2.949	11	Pass
	5200	-3.019	11	Pass
	5240	-2.855	11	Pass
802.11n20	5180	-3.386	11	Pass
	5200	-3.405	11	Pass
	5240	-3.413	11	Pass
802.11n40	5190	-5.938	11	Pass
	5230	-5.547	11	Pass
802.11ac20	5180	-3.241	11	Pass
	5200	-2.943	11	Pass
	5240	-3.175	11	Pass
802.11ac40	5190	-6.353	11	Pass
	5230	-6.265	11	Pass
802.11ax20	5180	-3.109	11	Pass
	5200	-3.491	11	Pass
	5240	-2.322	11	Pass
802.11ax40	5190	-6.104	11	Pass
	5230	-5.885	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	-2.522	11	Pass
	5300	-3.943	11	Pass
	5320	-4.207	11	Pass
802.11n20	5260	-3.071	11	Pass
	5300	-4.203	11	Pass
	5320	-4.370	11	Pass
802.11n40	5270	-7.365	11	Pass
	5310	-7.518	11	Pass
802.11ac20	5260	-3.066	11	Pass
	5300	-3.852	11	Pass
	5320	-4.253	11	Pass
802.11ac40	5270	-6.278	11	Pass
	5310	-7.377	11	Pass
802.11ax20	5260	-3.441	11	Pass
	5300	-3.787	11	Pass
	5320	-4.570	11	Pass
802.11ax40	5270	-6.206	11	Pass
	5310	-6.860	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	-1.933	11	Pass
	5600	-0.435	11	Pass
	5700	1.284	11	Pass
802.11n20	5500	-1.911	11	Pass
	5600	-0.901	11	Pass
	5700	1.277	11	Pass
802.11n40	5510	-5.223	11	Pass
	5590	-4.001	11	Pass
	5670	-2.943	11	Pass
802.11ac20	5500	-2.046	11	Pass
	5600	-0.828	11	Pass
	5700	0.900	11	Pass
802.11ac40	5510	-5.174	11	Pass
	5590	-4.075	11	Pass
	5670	-2.260	11	Pass
802.11ax20	5500	-1.734	11	Pass
	5600	-0.417	11	Pass
	5700	1.018	11	Pass
802.11ax40	5510	-4.348	11	Pass
	5590	-3.200	11	Pass
	5670	-2.036	11	Pass

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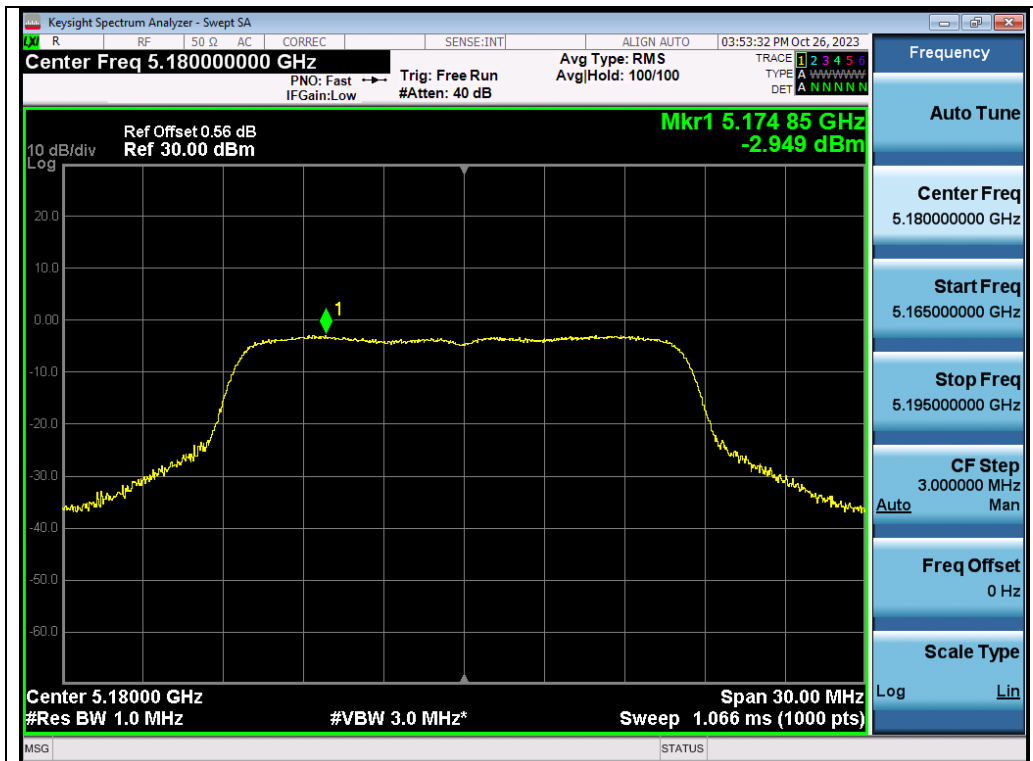
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-8.702	-1.712	30	Pass
	5785	-11.107	-4.117	30	Pass
	5825	-13.051	-6.061	30	Pass
802.11n20	5745	-9.419	-2.429	30	Pass
	5785	-11.538	-4.548	30	Pass
	5825	-12.949	-5.959	30	Pass
802.11n40	5755	-12.883	-5.893	30	Pass
	5795	-14.863	-7.873	30	Pass
802.11ac20	5745	-9.195	-2.205	30	Pass
	5785	-11.499	-4.509	30	Pass
	5825	-13.566	-6.576	30	Pass
802.11ac40	5755	-12.745	-5.755	30	Pass
	5795	-14.004	-7.014	30	Pass
802.11ax20	5745	-10.096	-3.106	30	Pass
	5785	-12.544	-5.554	30	Pass
	5825	-14.195	-7.205	30	Pass
802.11ax40	5755	-14.092	-7.102	30	Pass
	5795	-15.997	-9.007	30	Pass

Note:1.Power density(dBm/500kHz) = Power density(dBm/100kHz)+10*log(500/100).

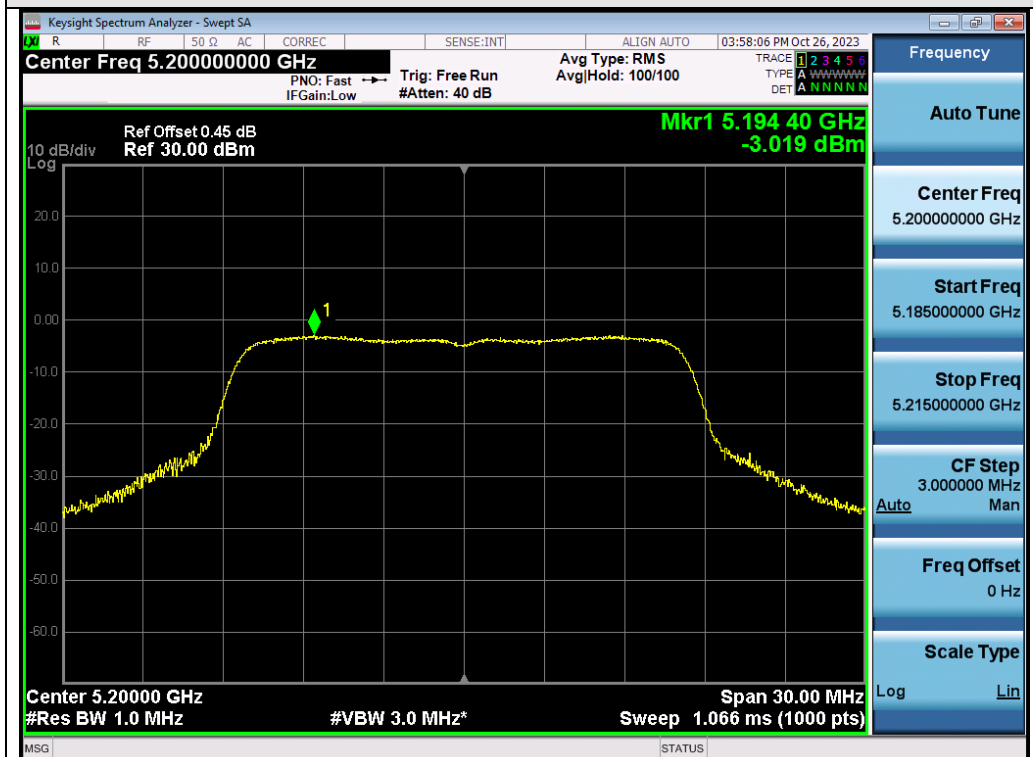
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

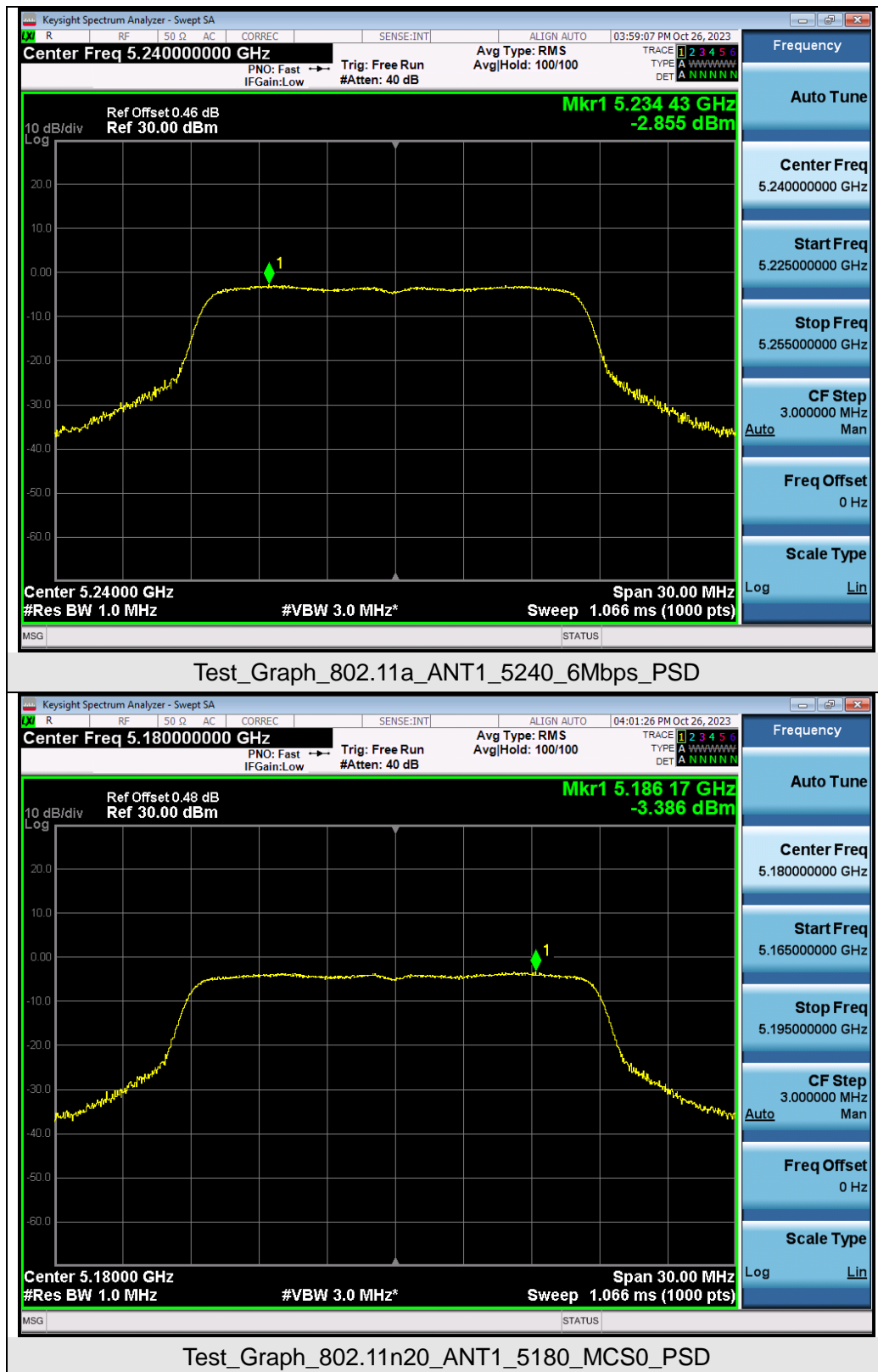


Test_Graph_802.11a_ANT1_5180_6Mbps_PSD



Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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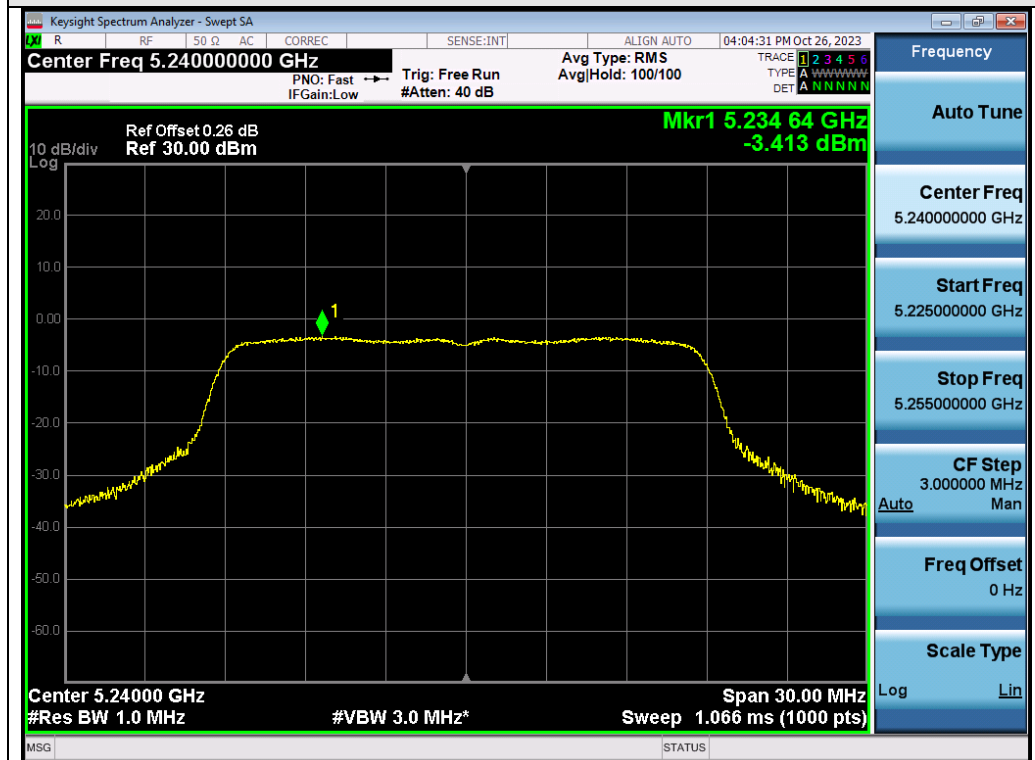


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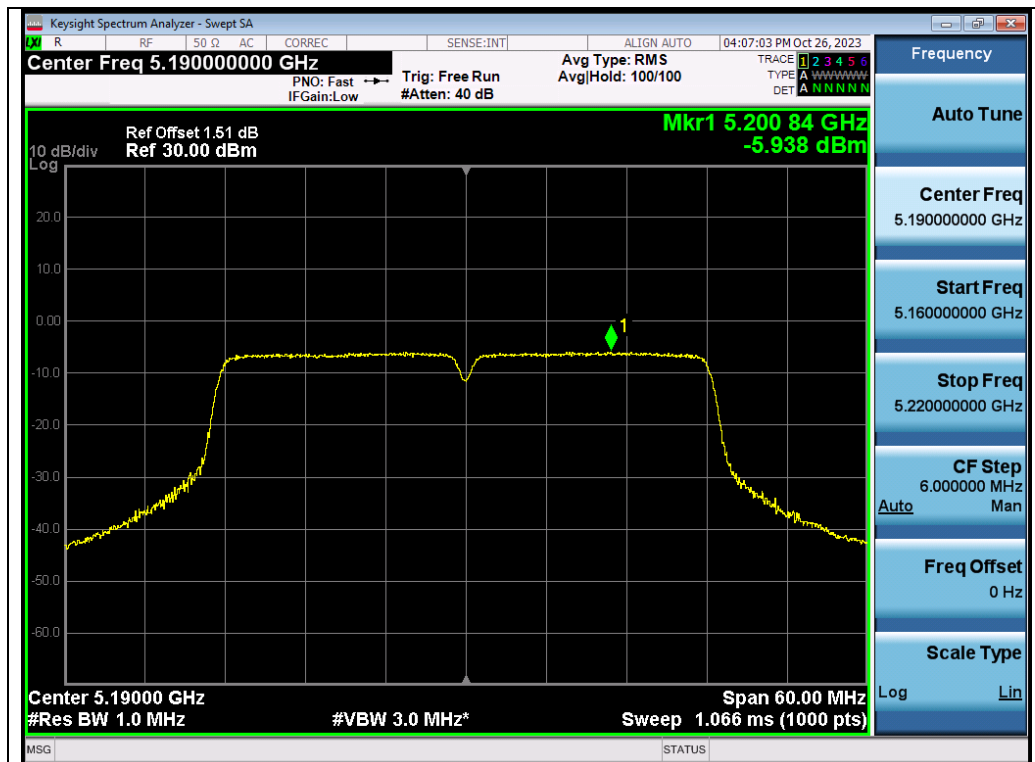
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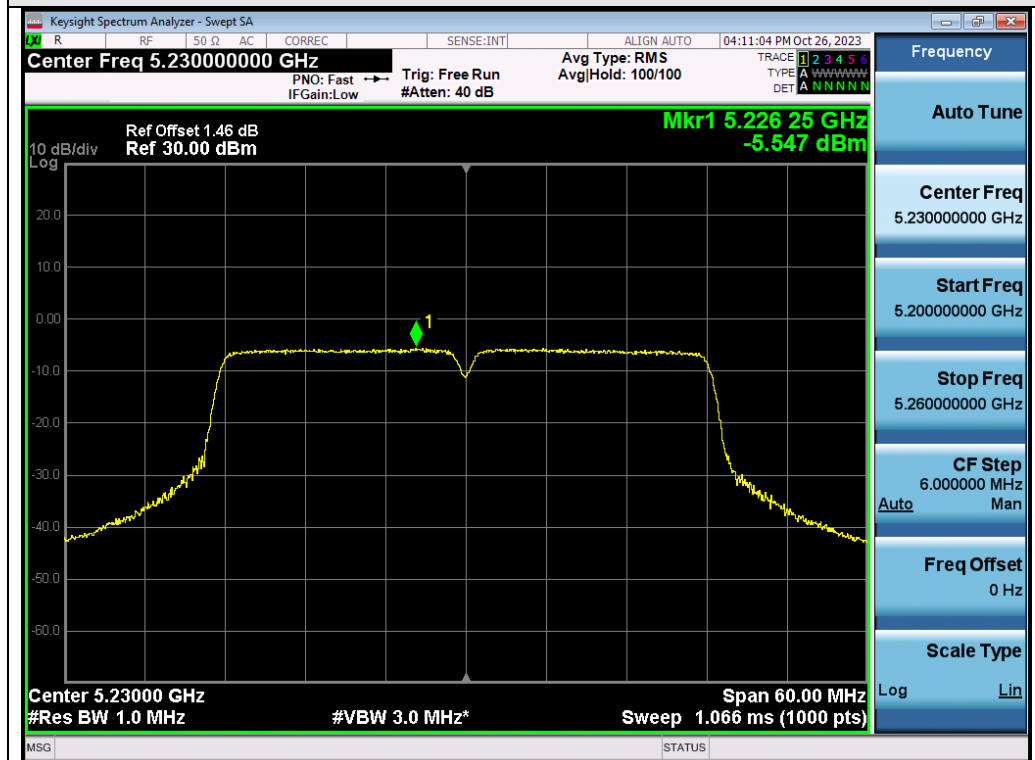
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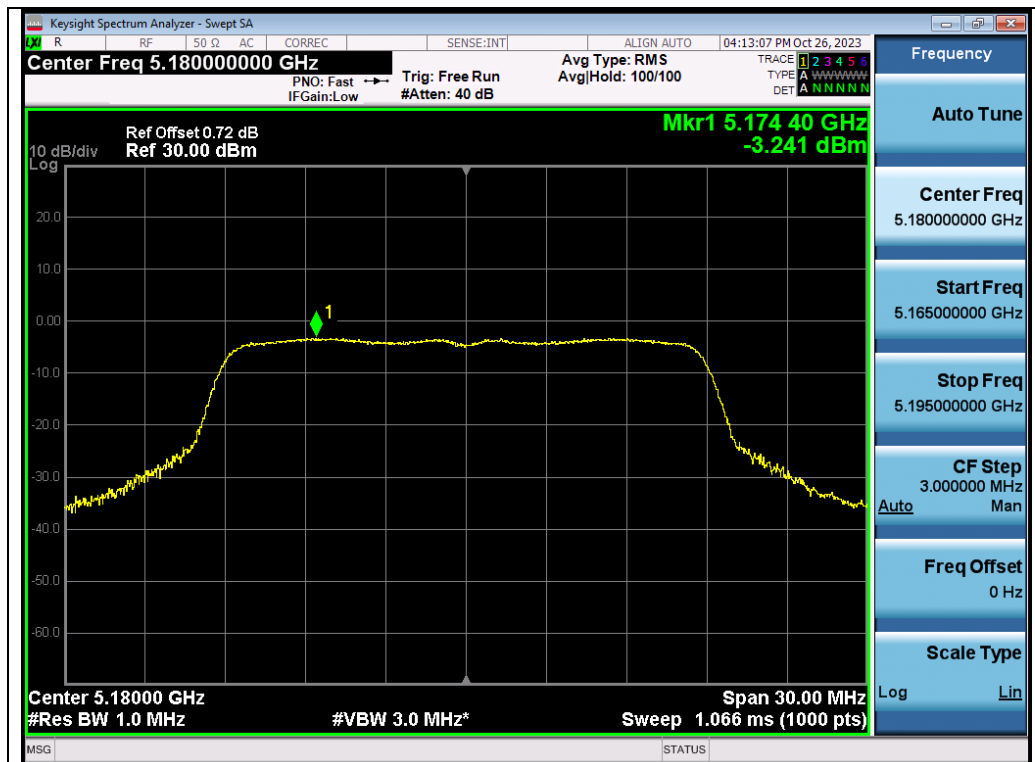


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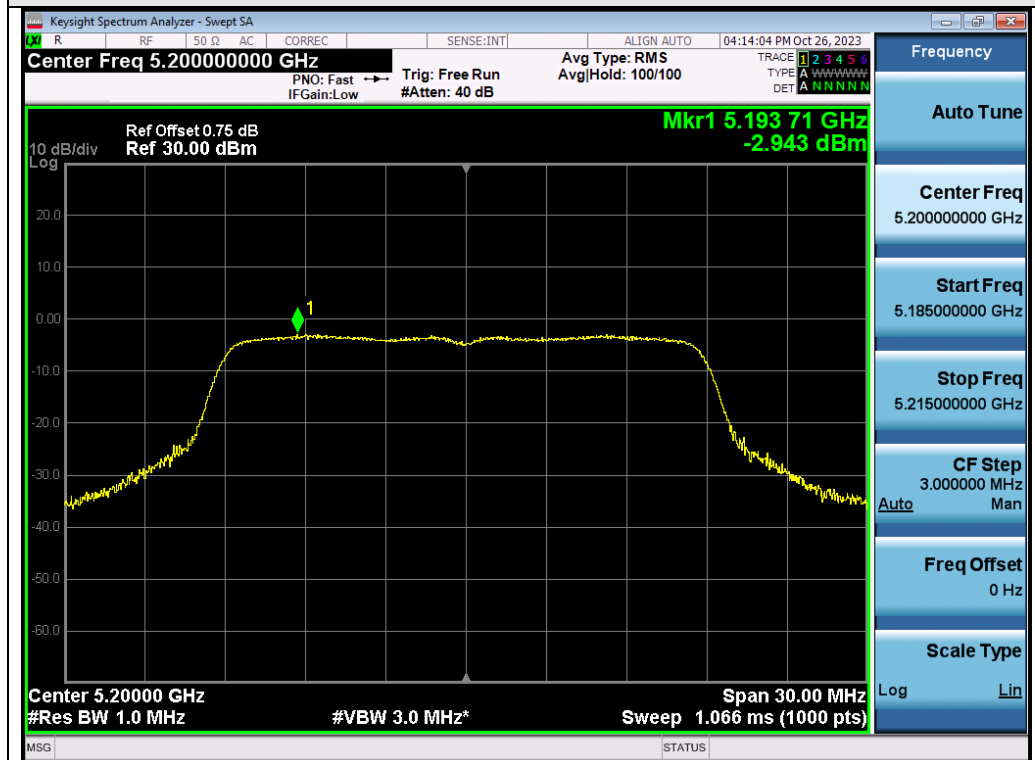


Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

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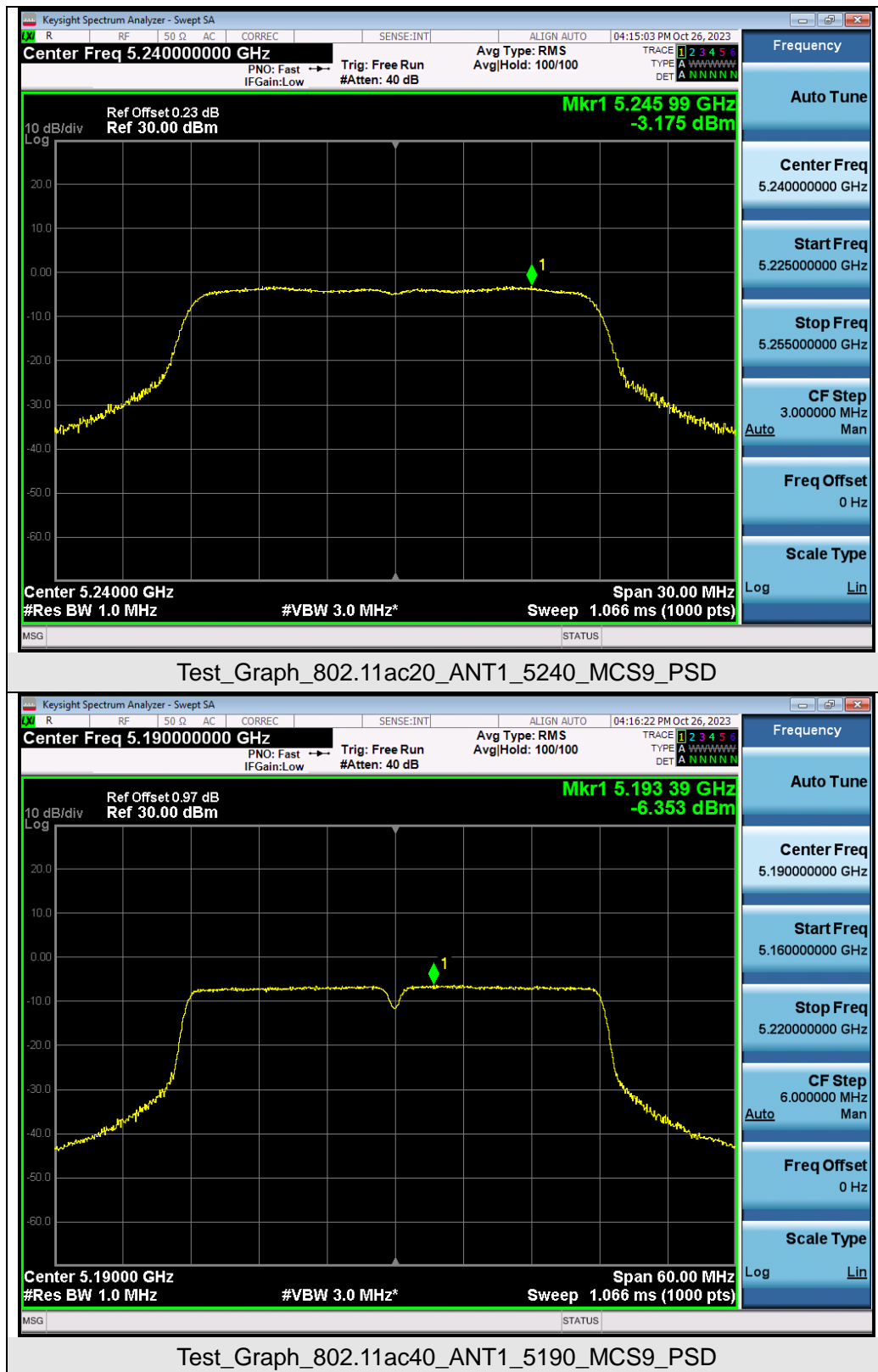
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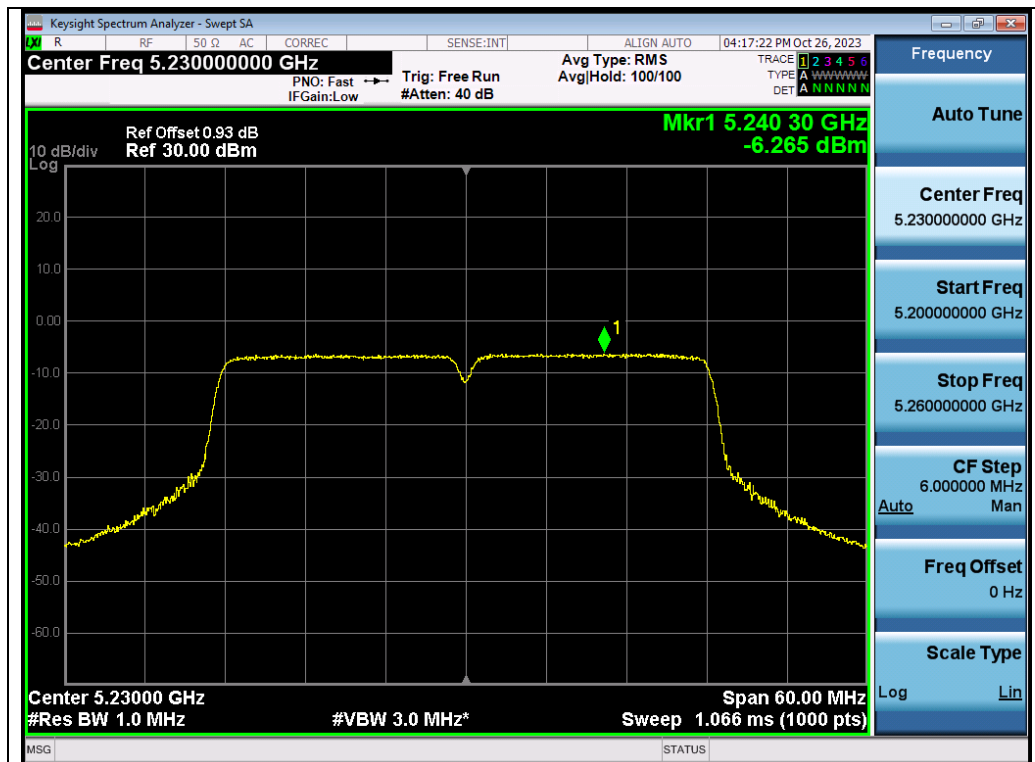
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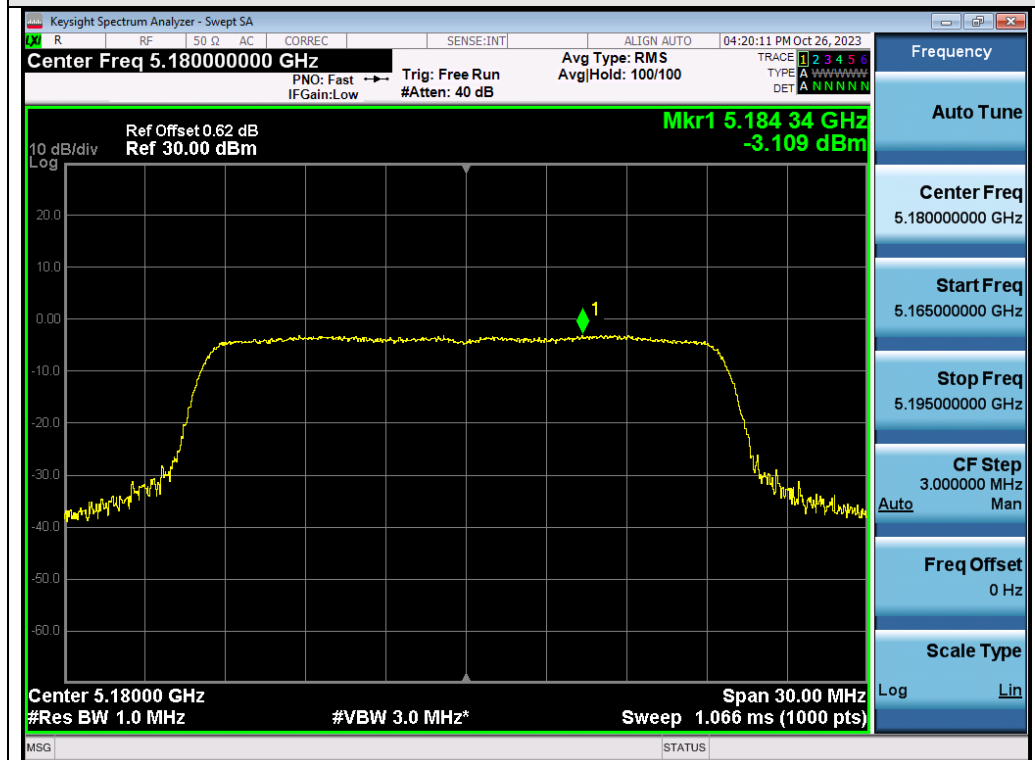


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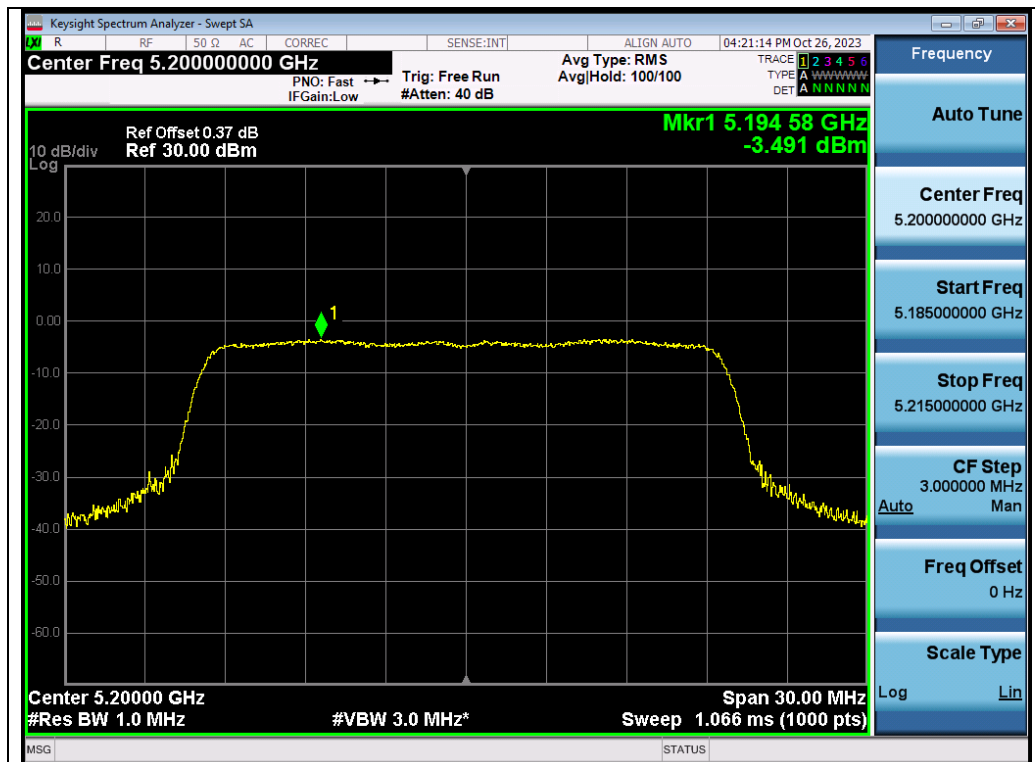


Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD

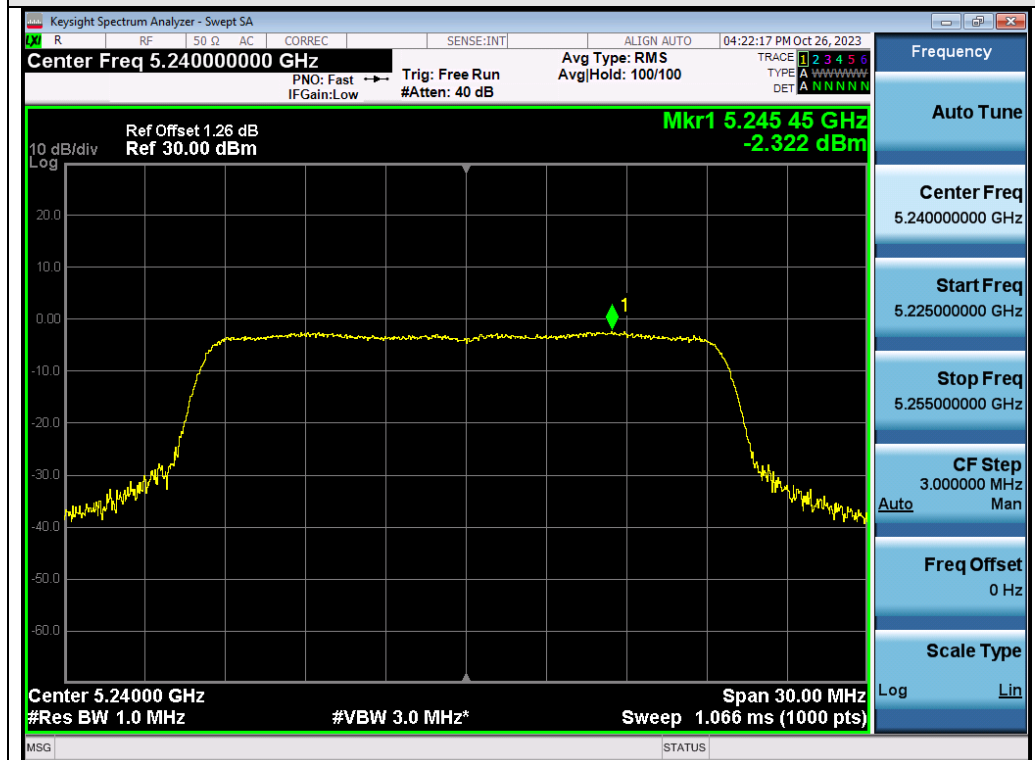


Test_Graph_802.11ax20_ANT1_5180_MCS0_PSD

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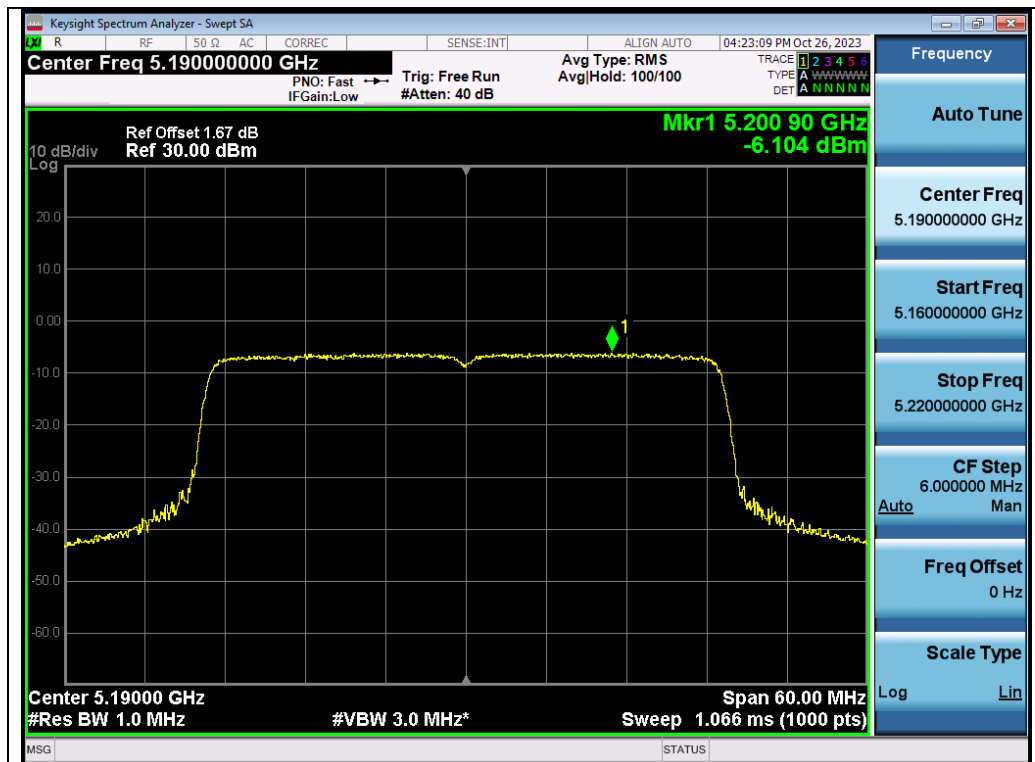


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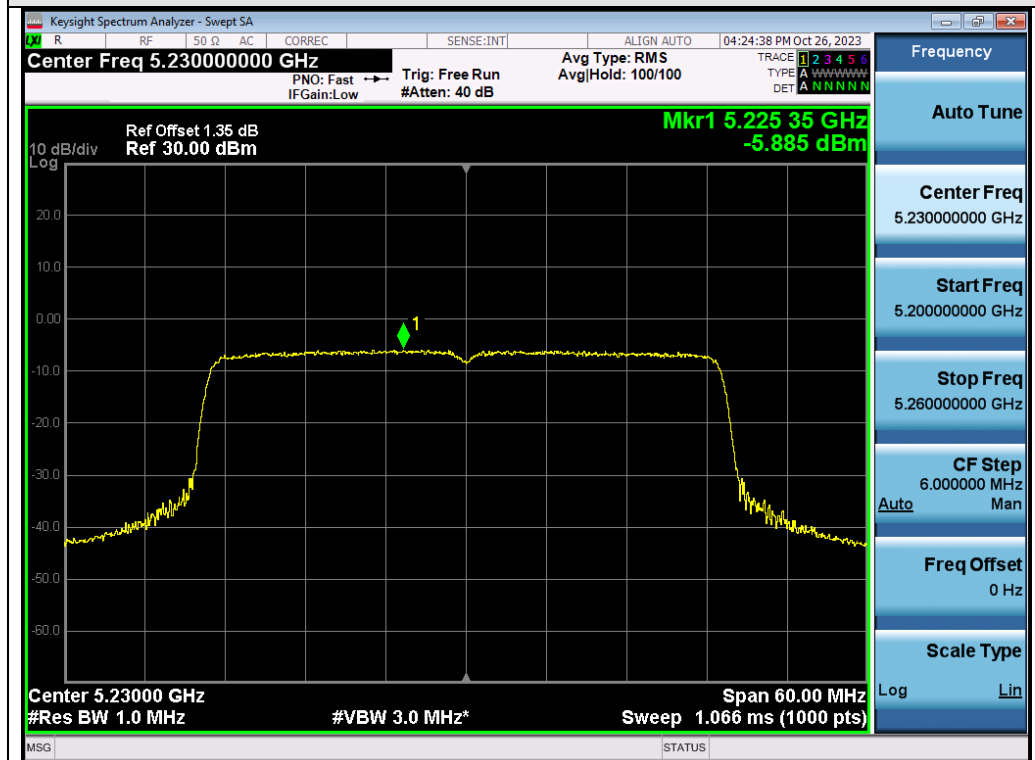


Test_Graph_802.11ax20_ANT1_5240_MCS0_PSD

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Test_Graph_802.11ax40_ANT1_5190_MCS0_PSD

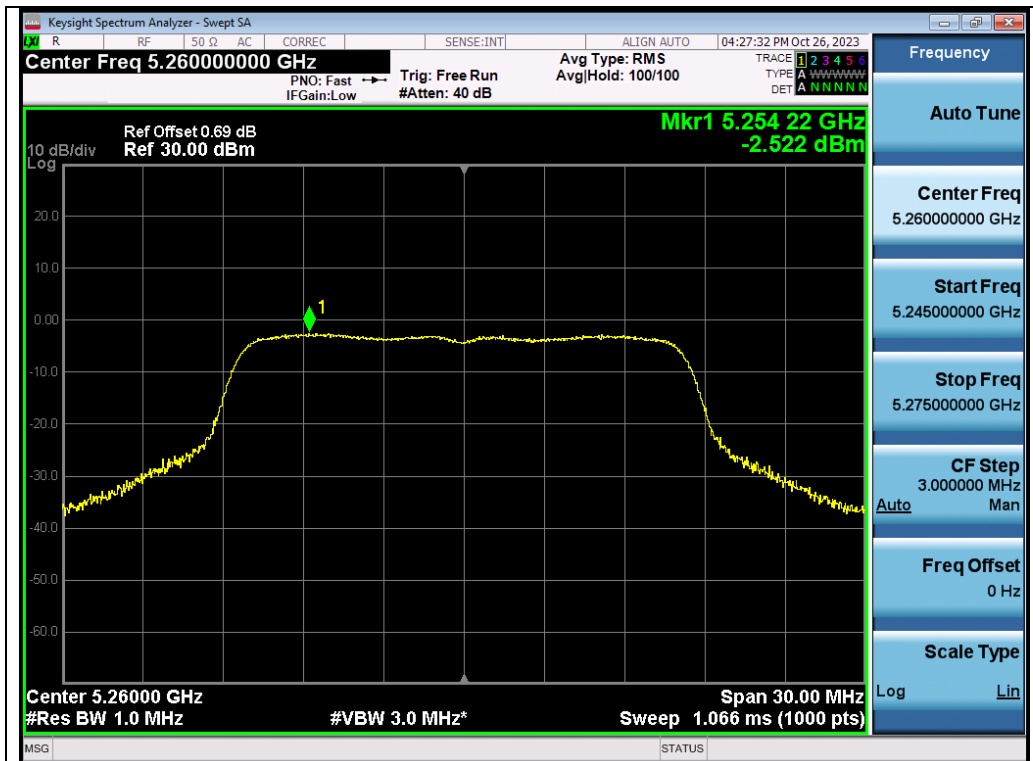


Test_Graph_802.11ax40_ANT1_5230_MCS0_PSD

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

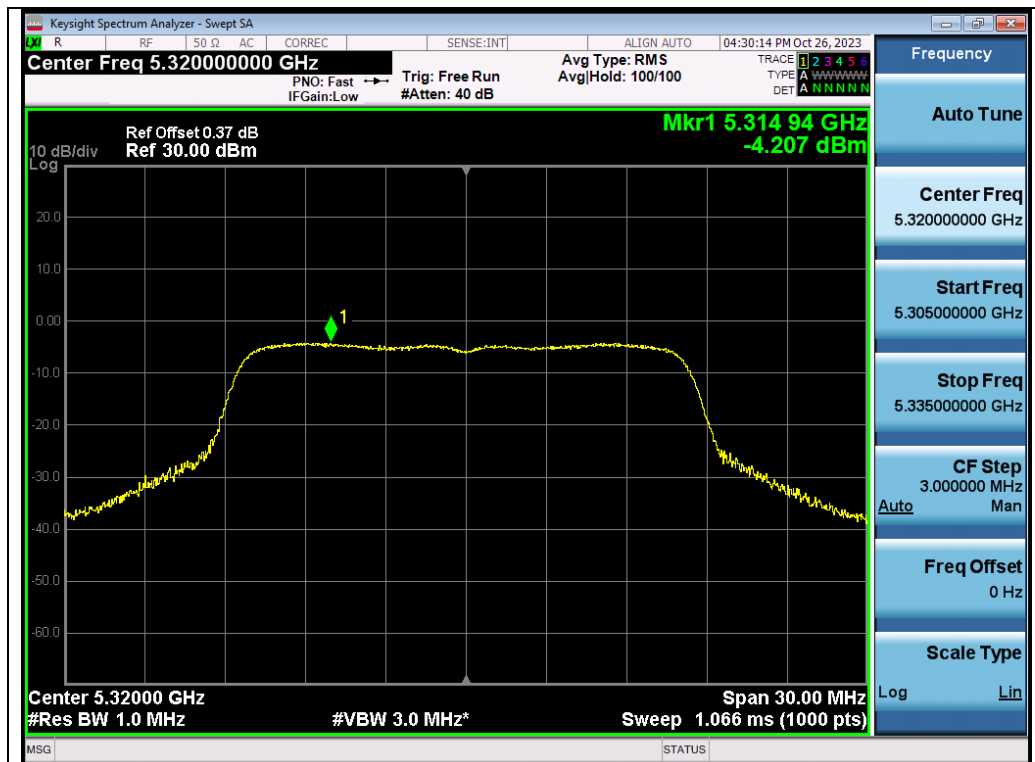


Test_Graph_802.11a_ANT1_5260_6Mbps_PSD



Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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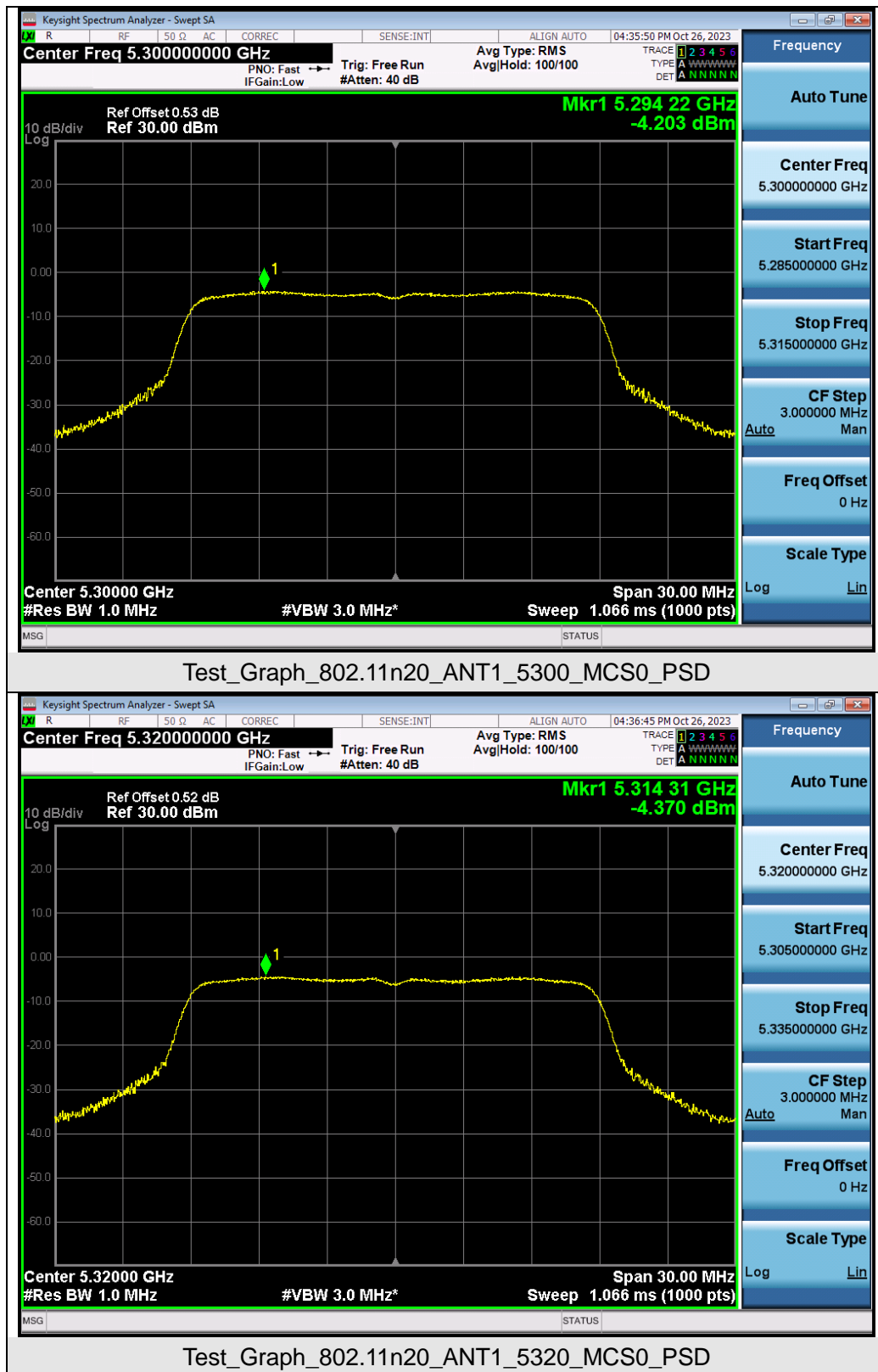


Test_Graph_802.11a_ANT1_5320_6Mbps_PSD

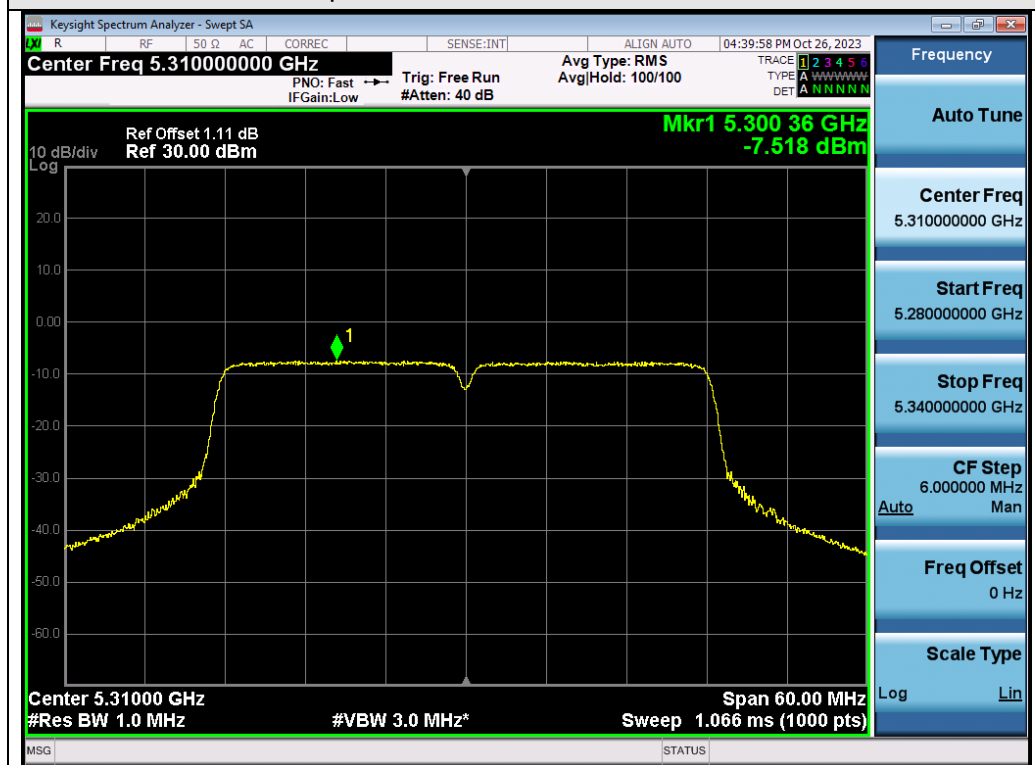
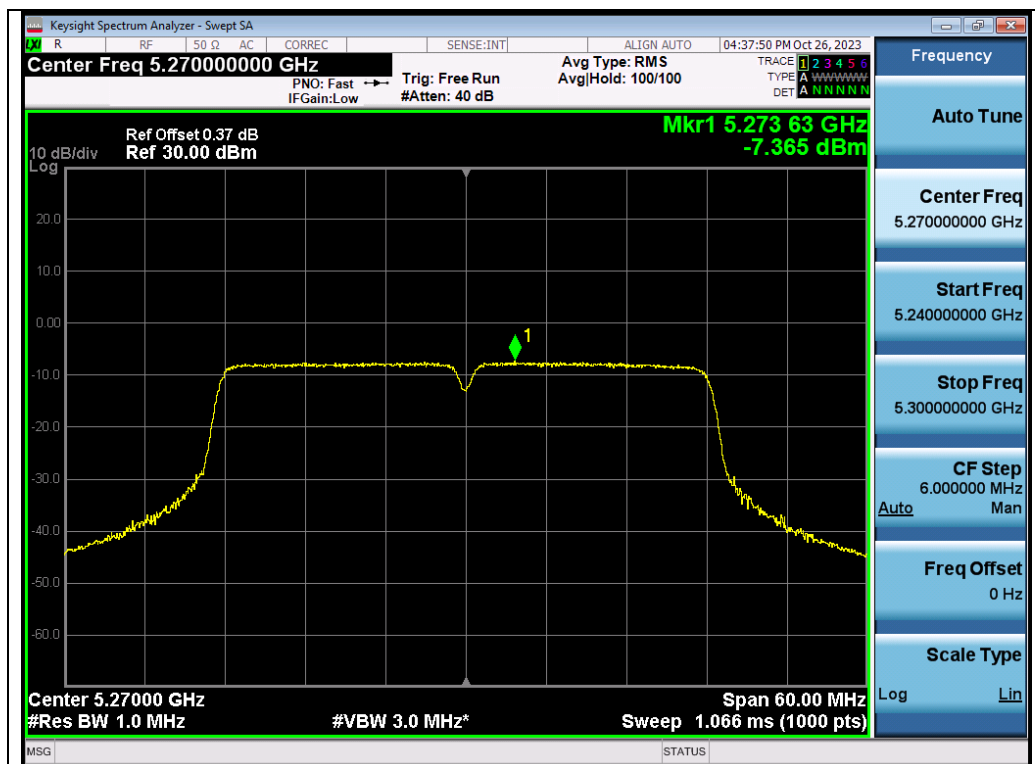


Test_Graph_802.11n20_ANT1_5260_MCS0_PSD

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