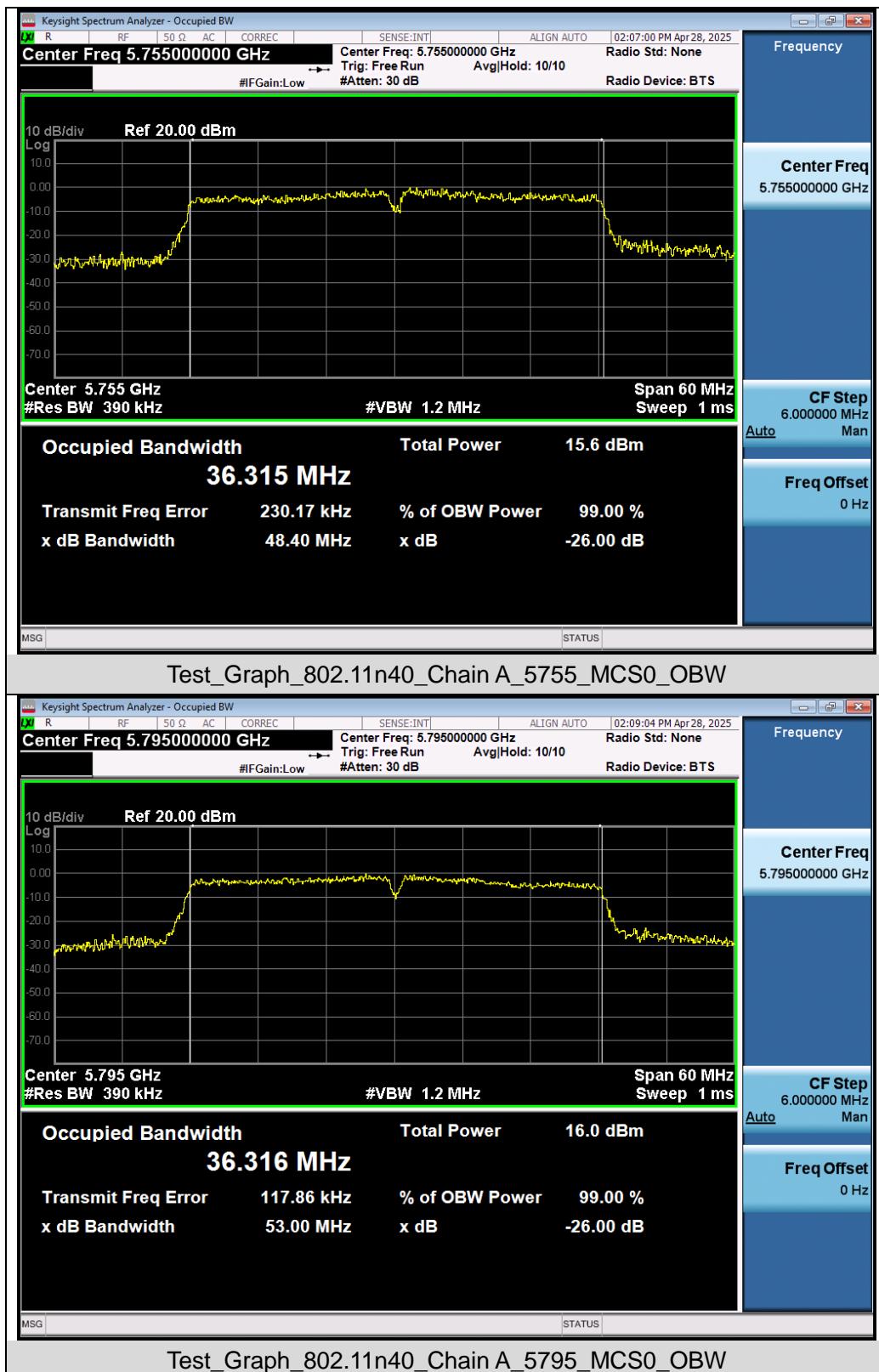


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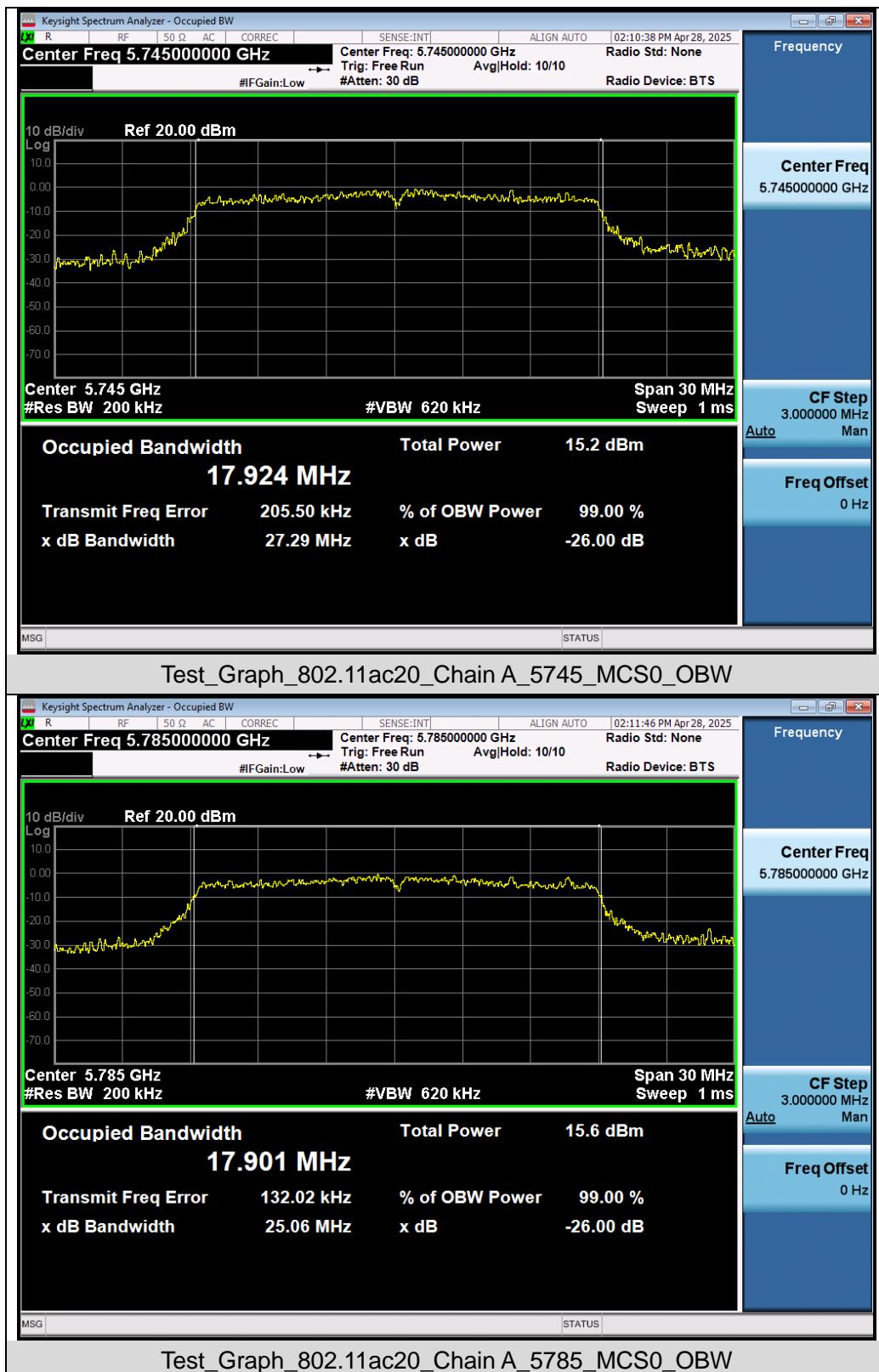


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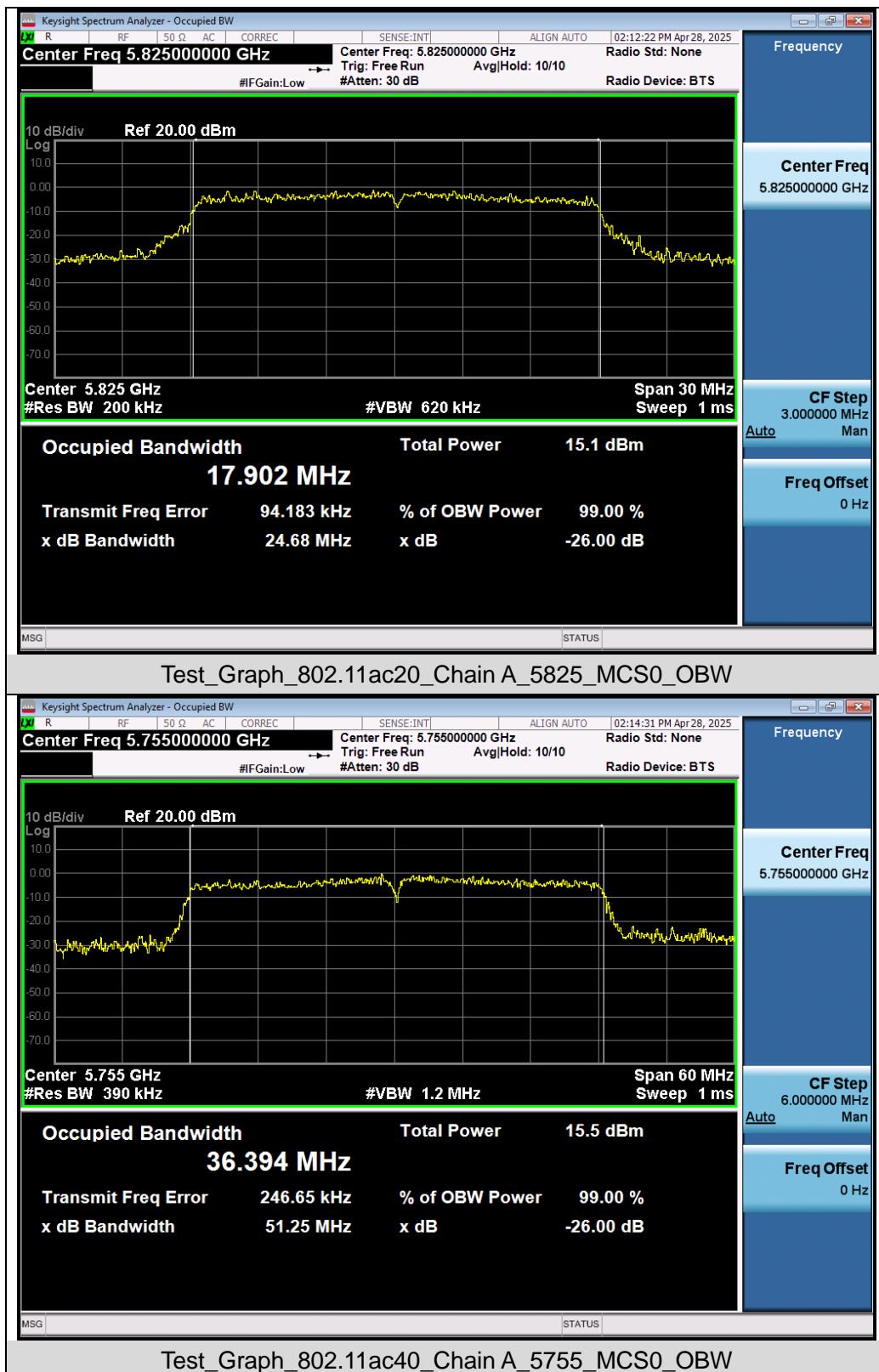


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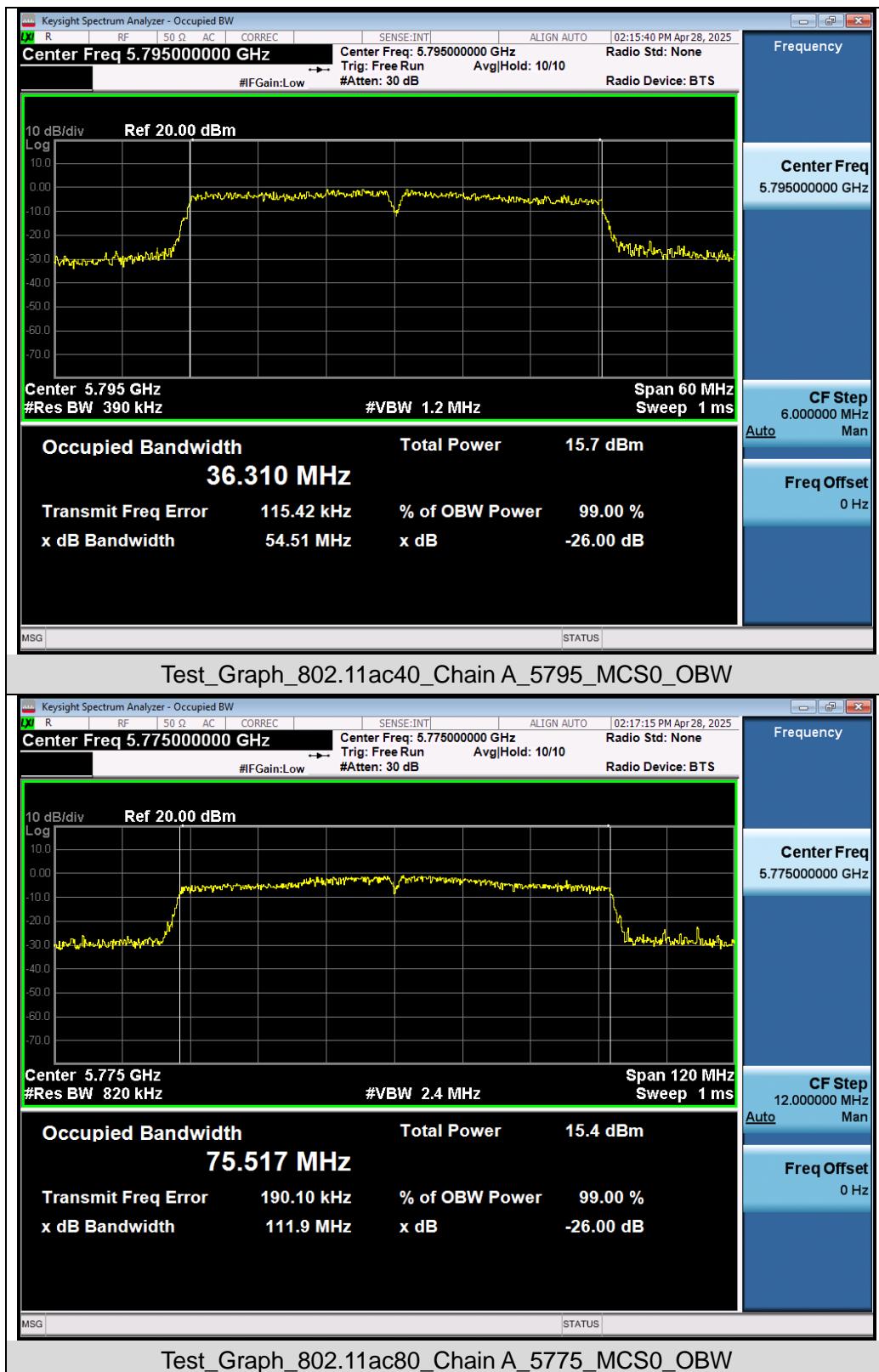


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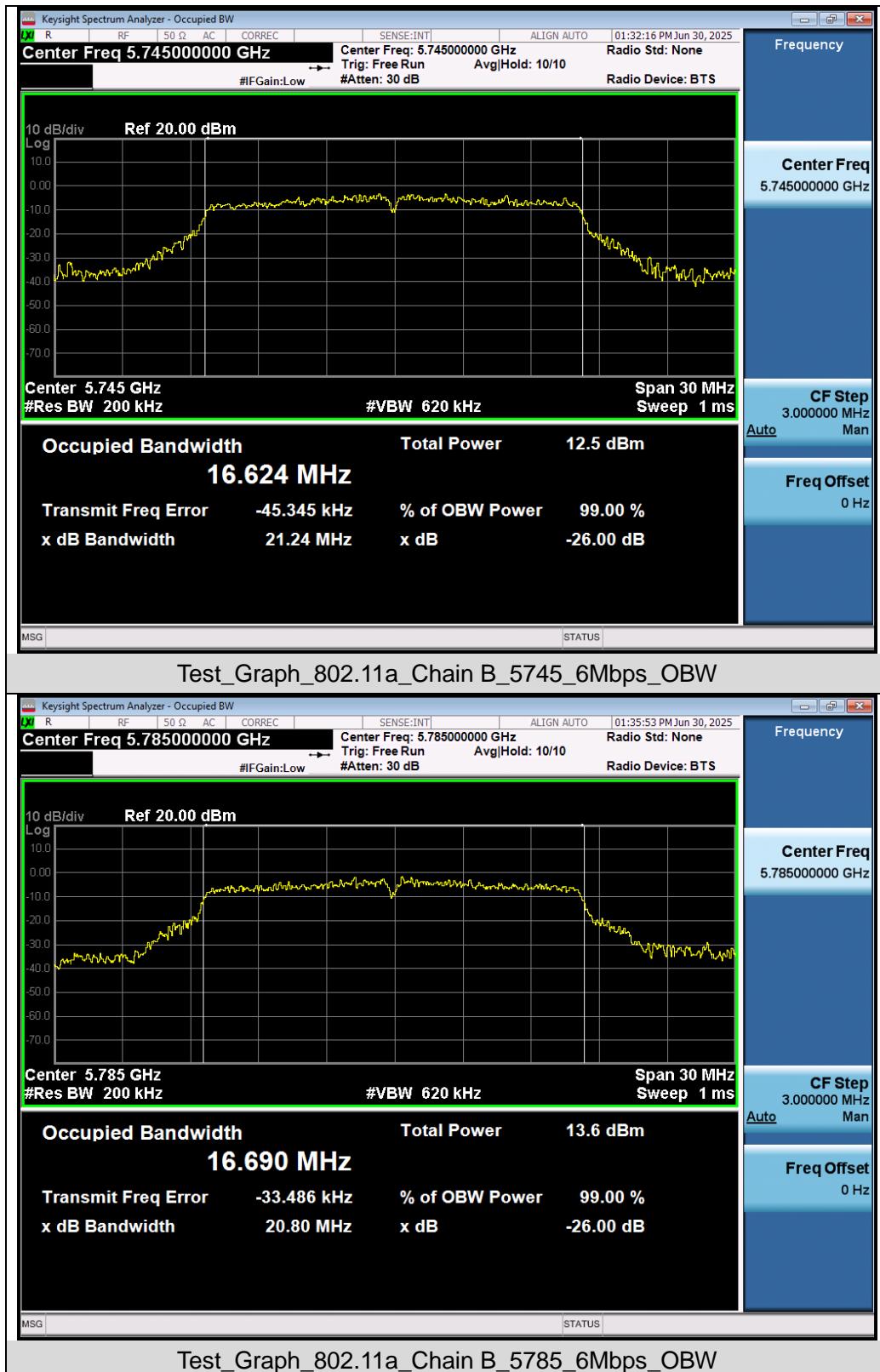


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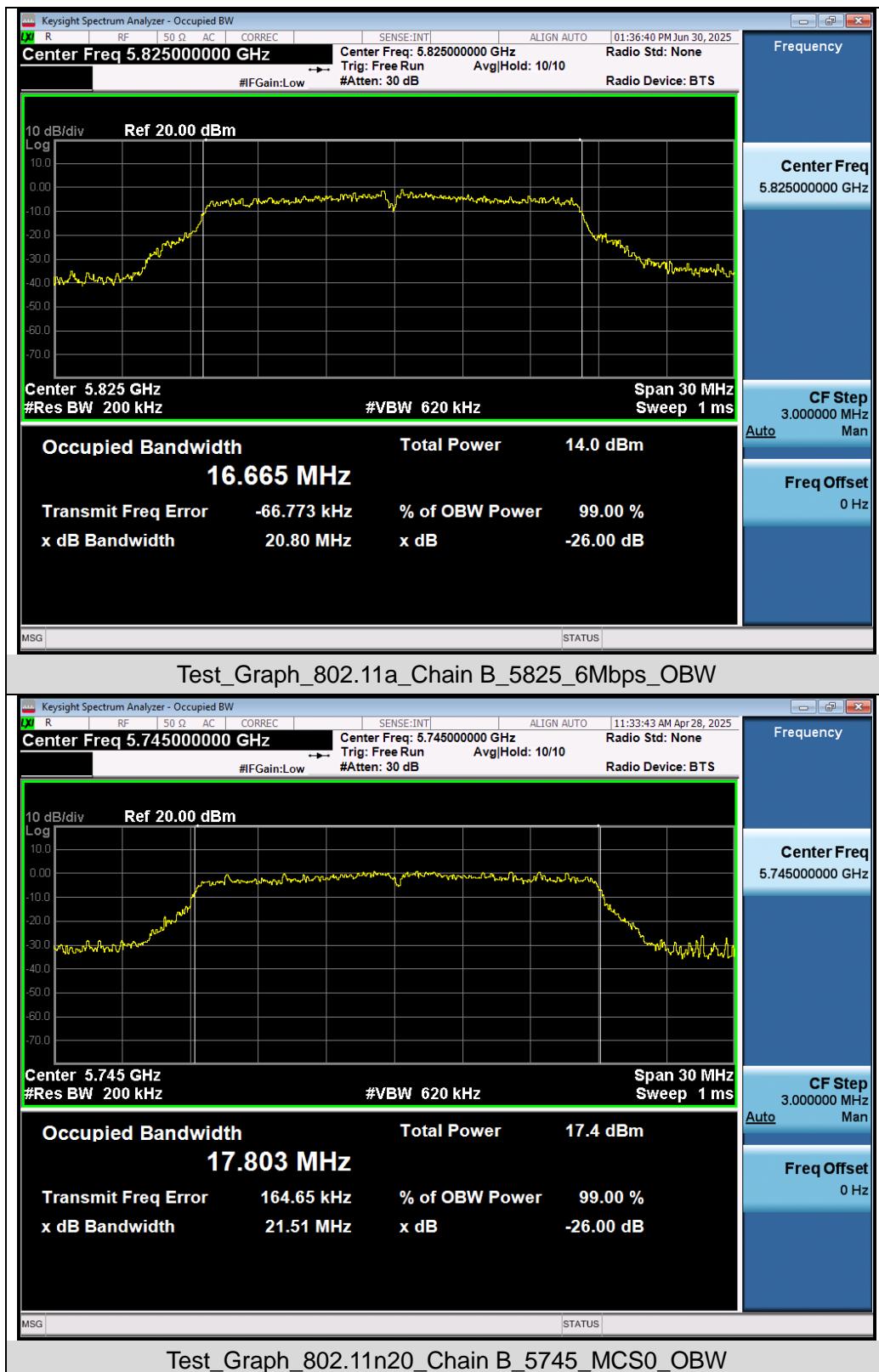


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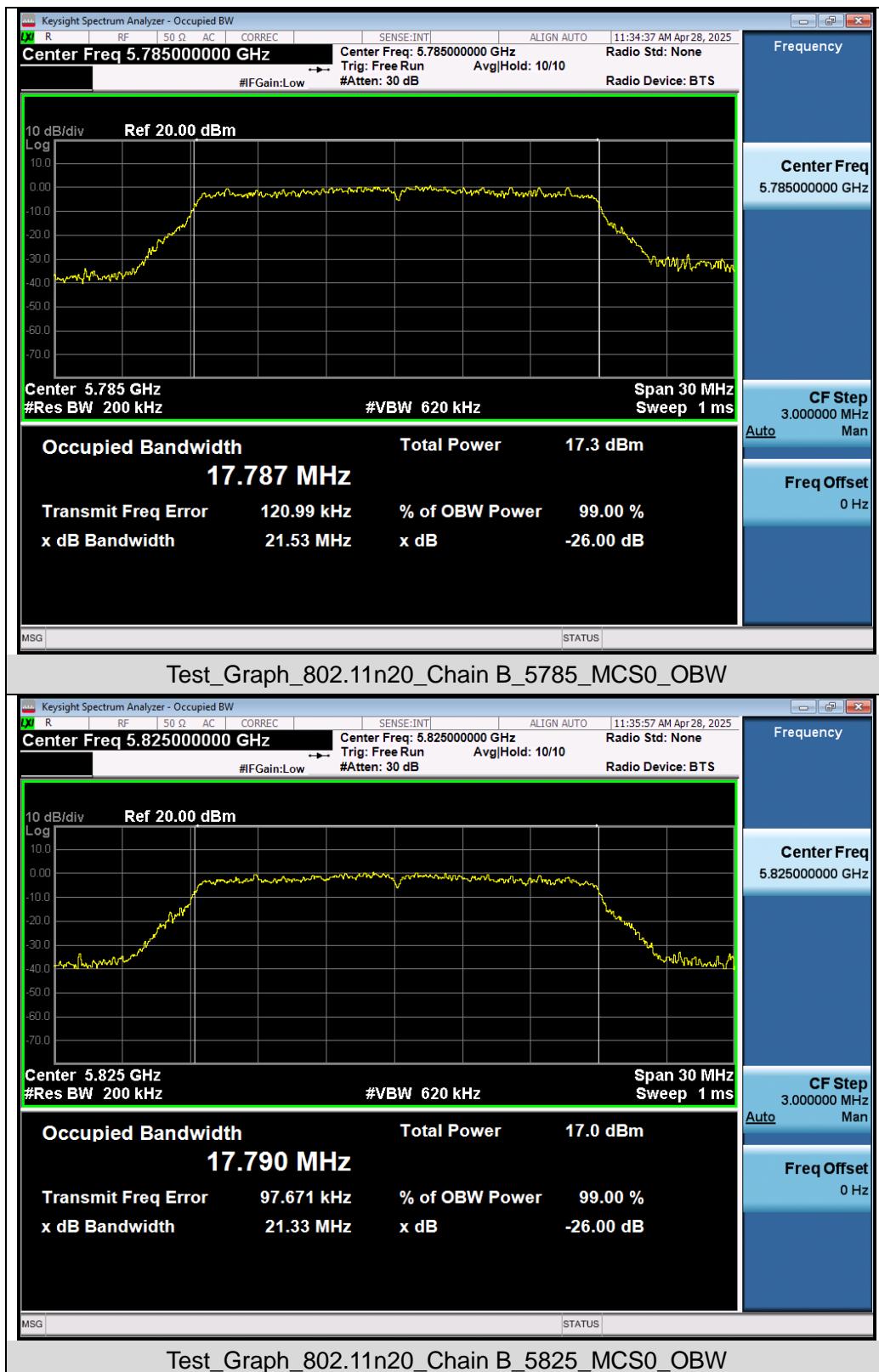


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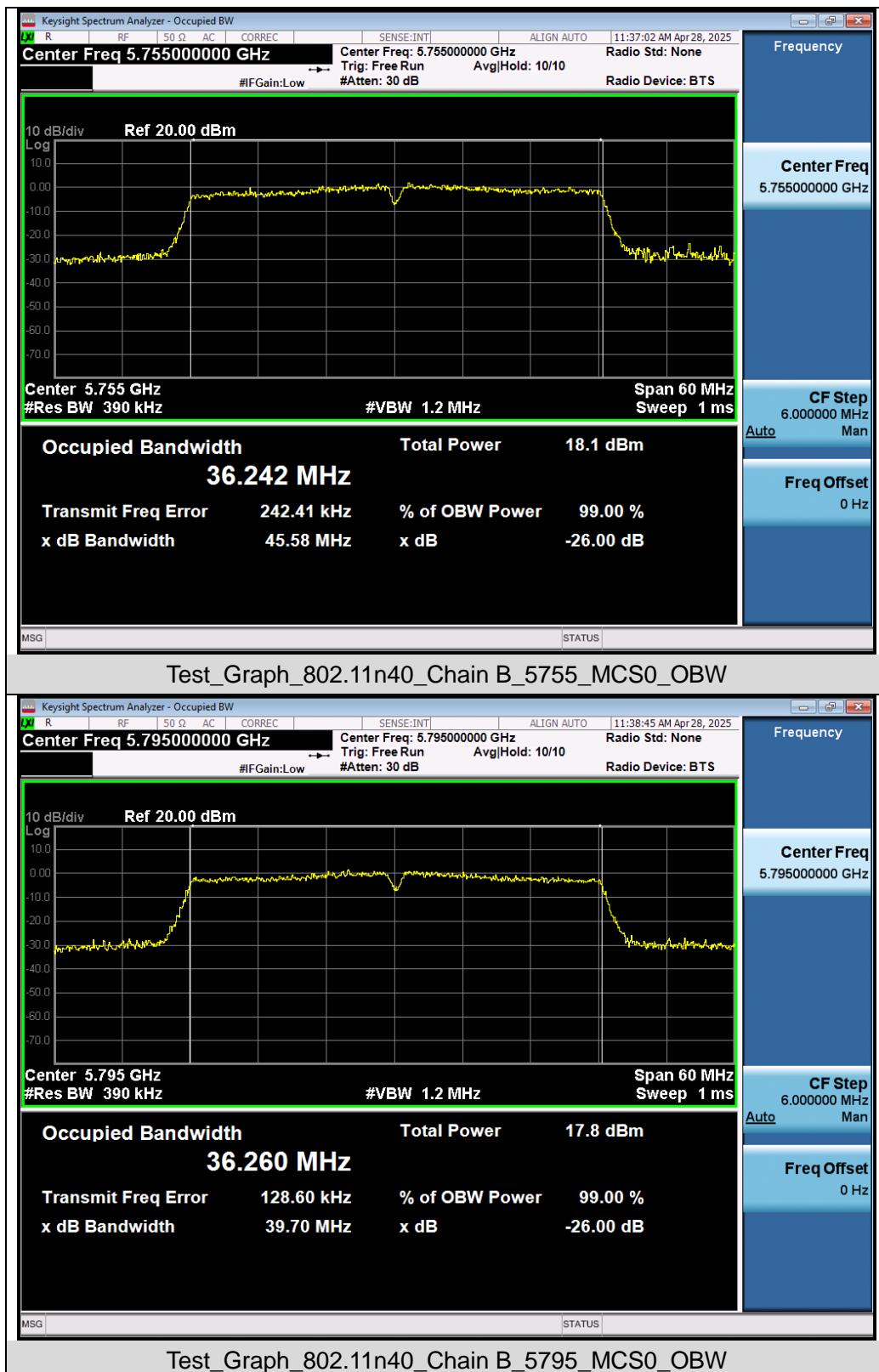


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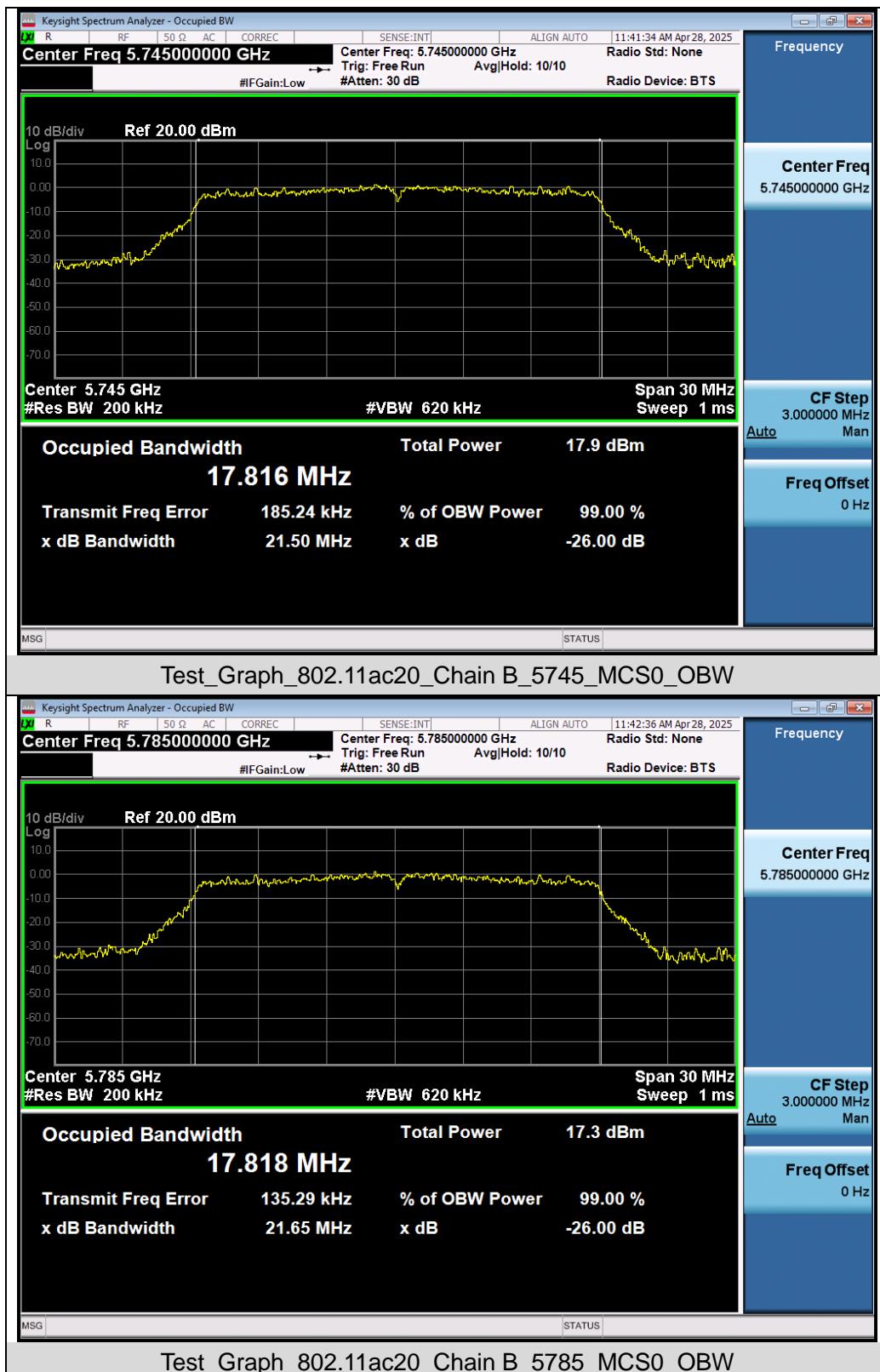


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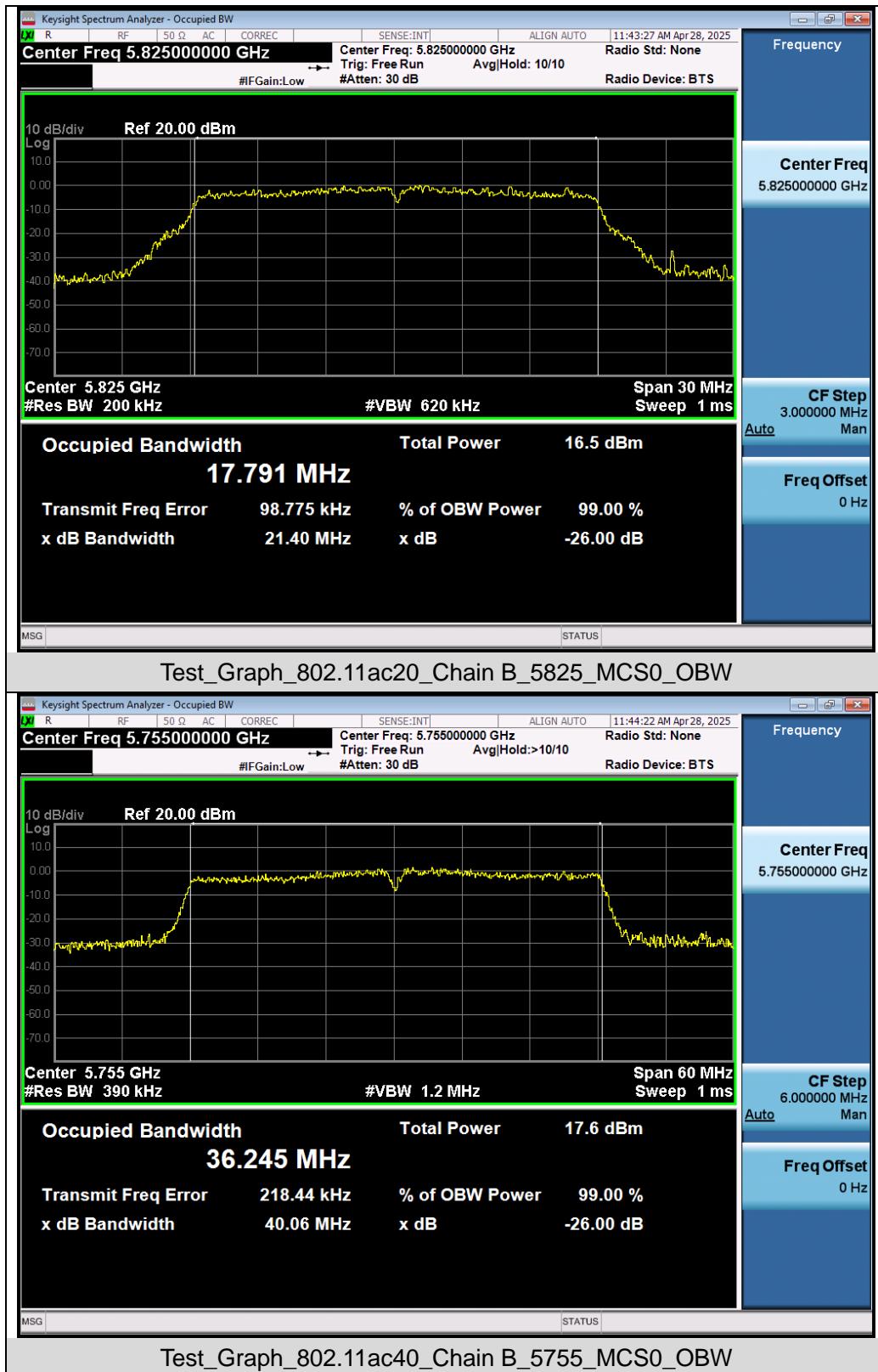


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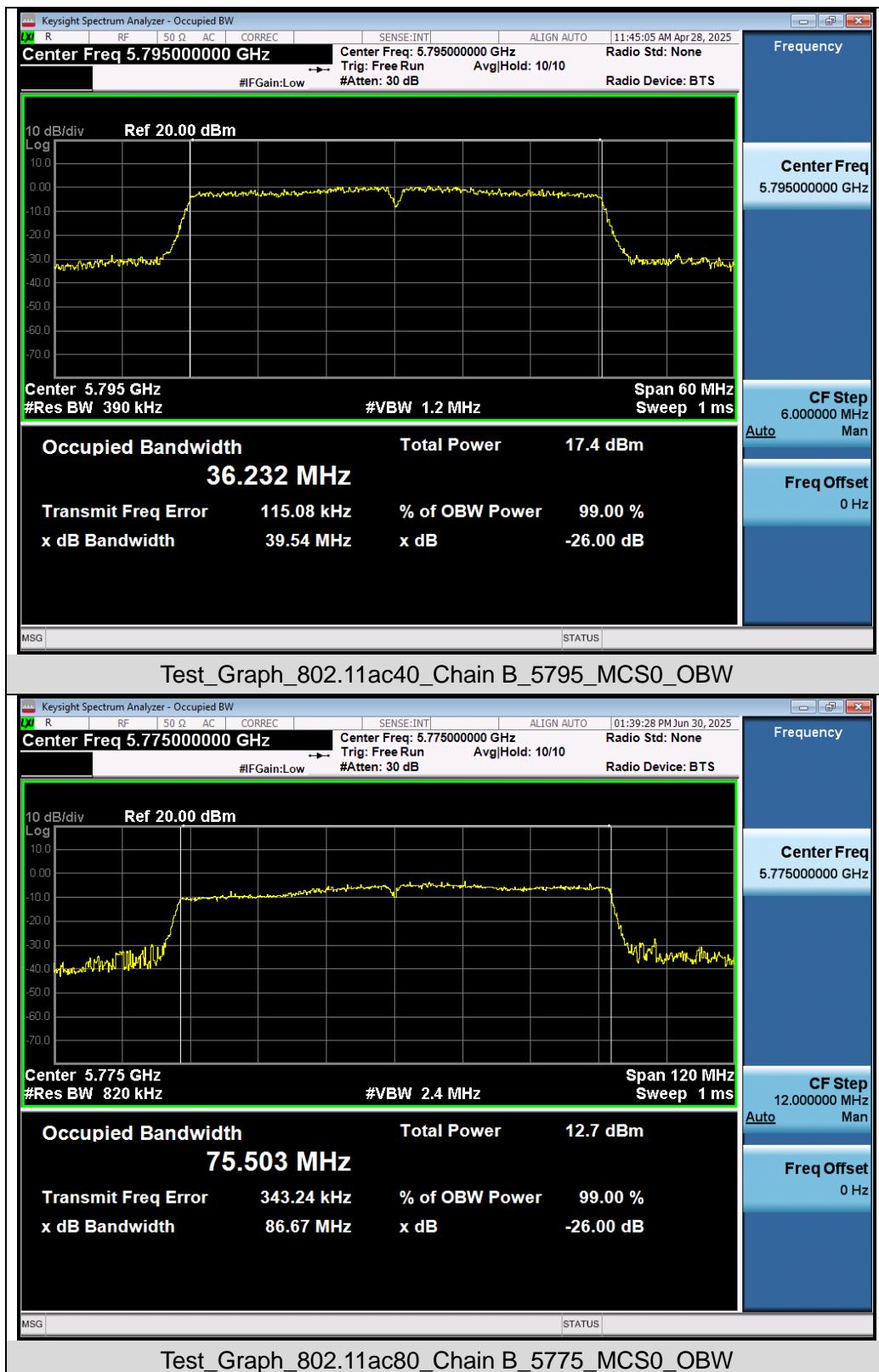


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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



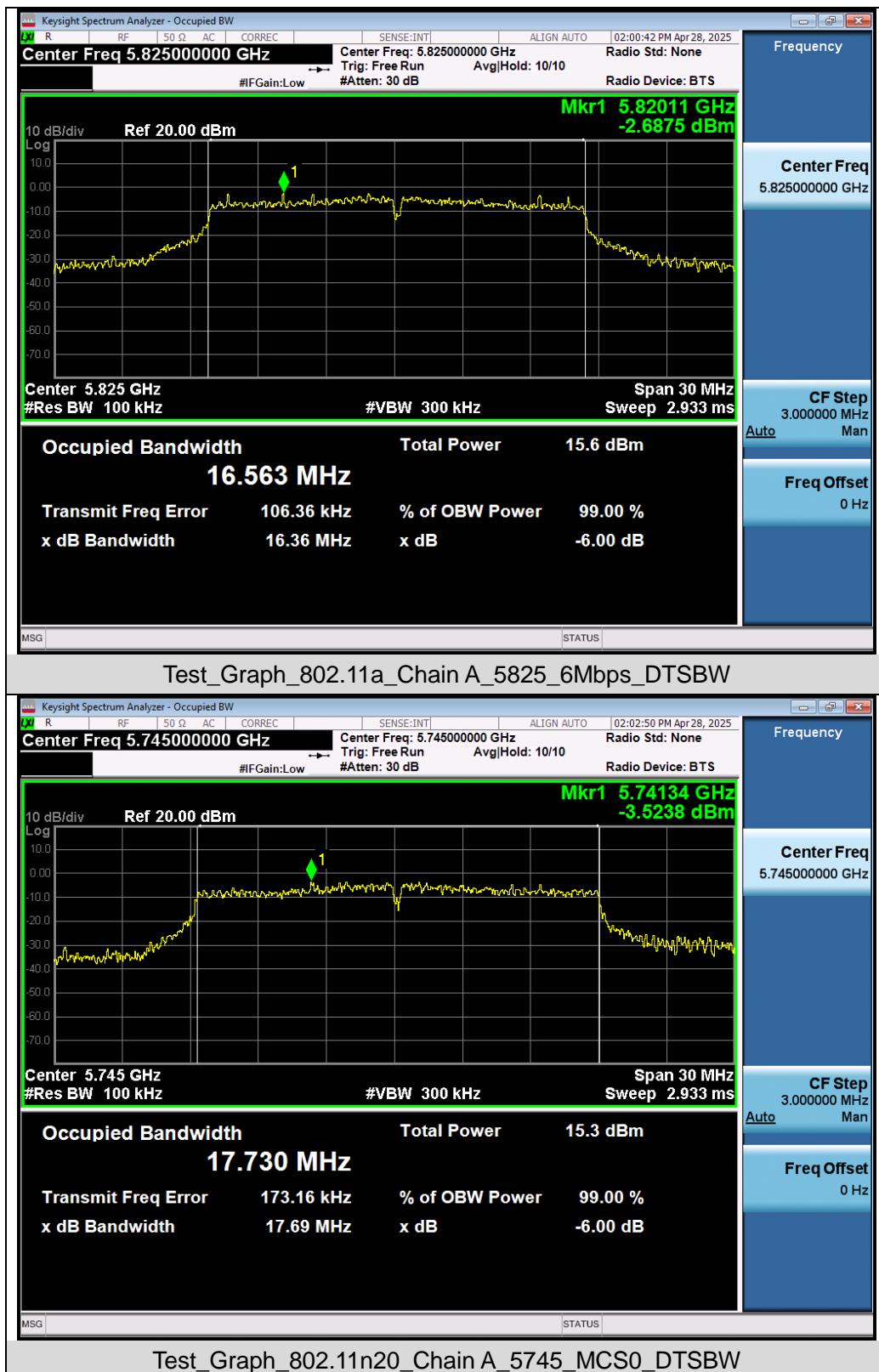
Test_Graph_802.11a_Chain A_5745_6Mbps_DTSBW

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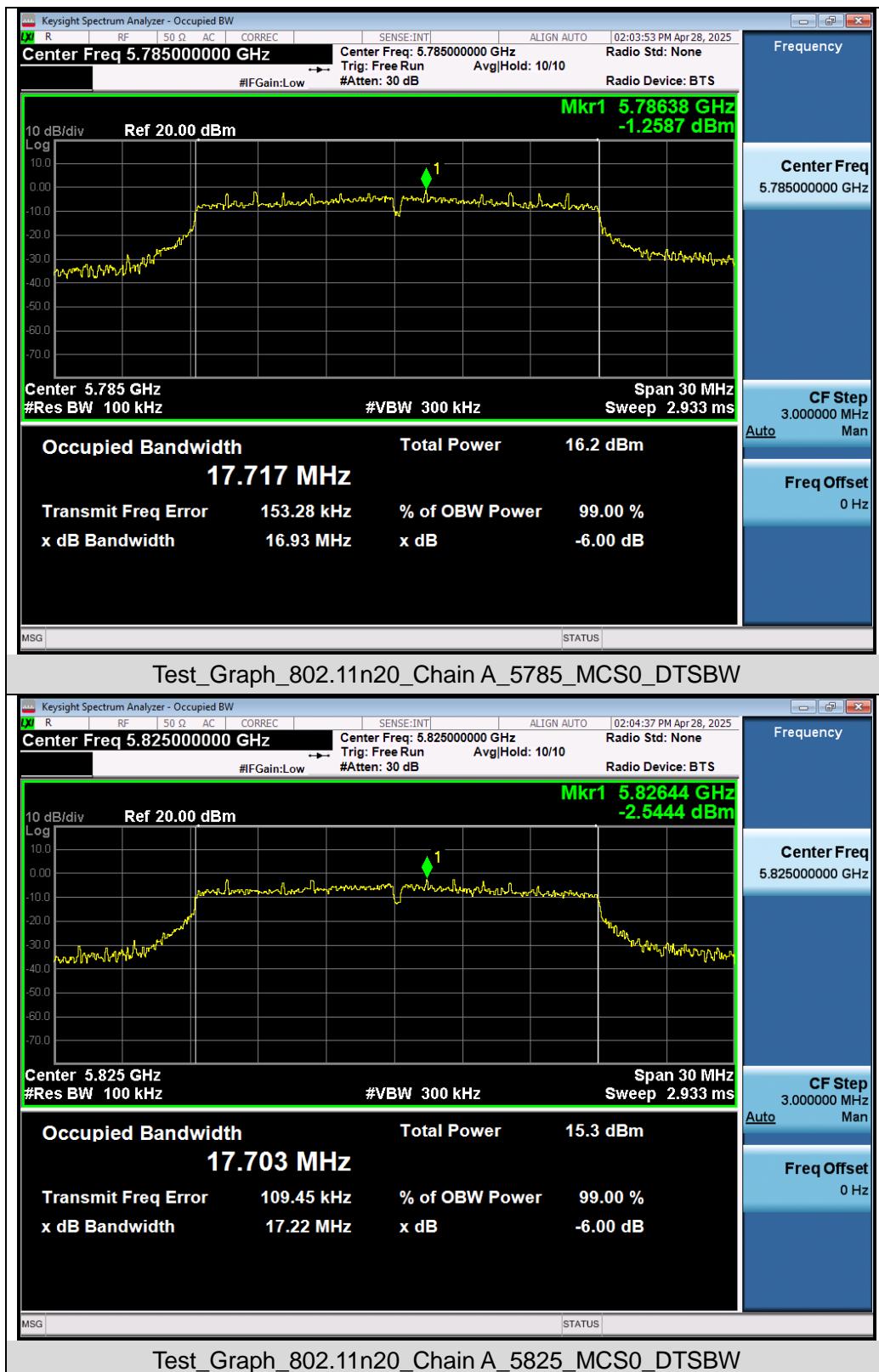


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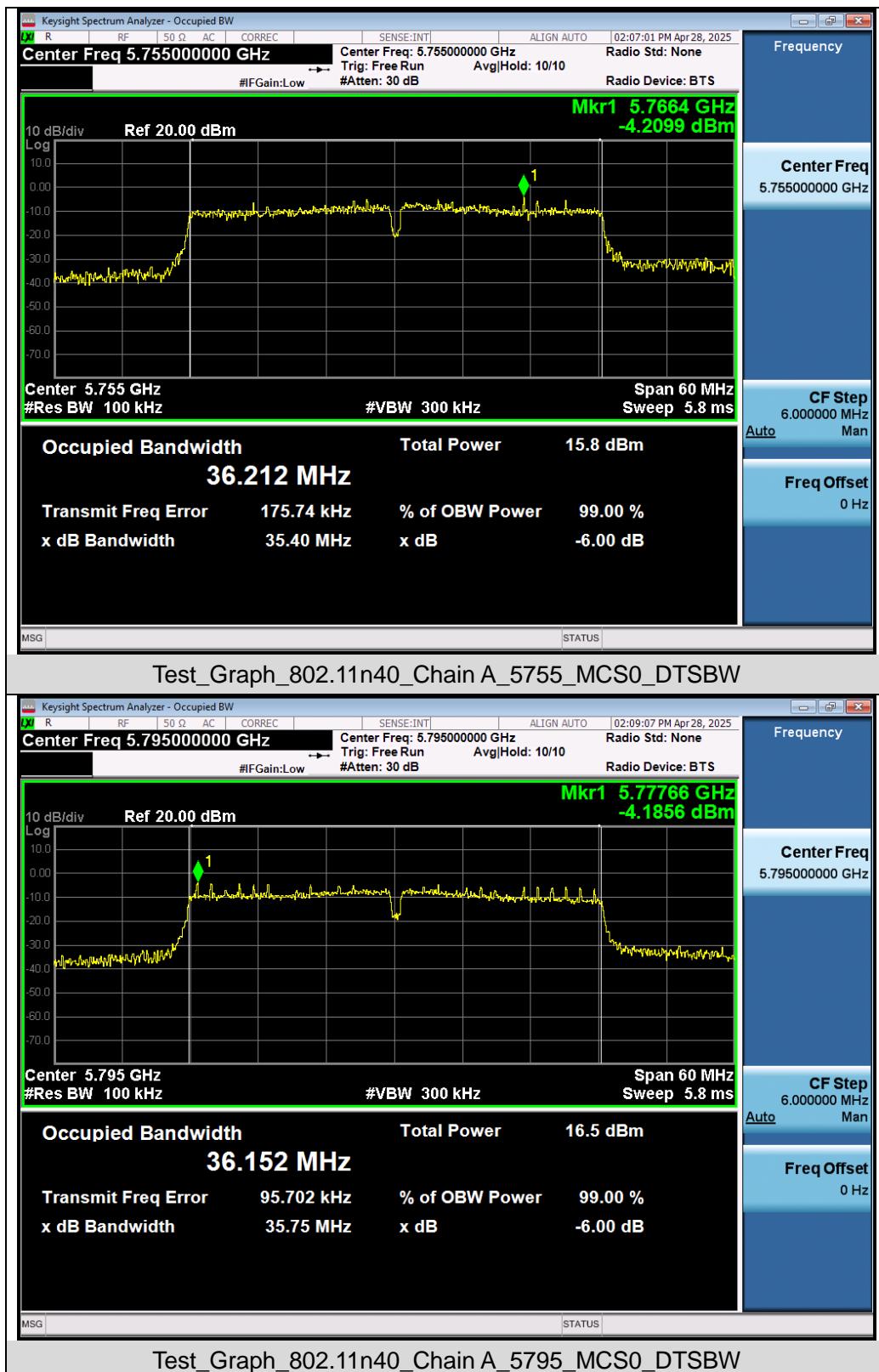


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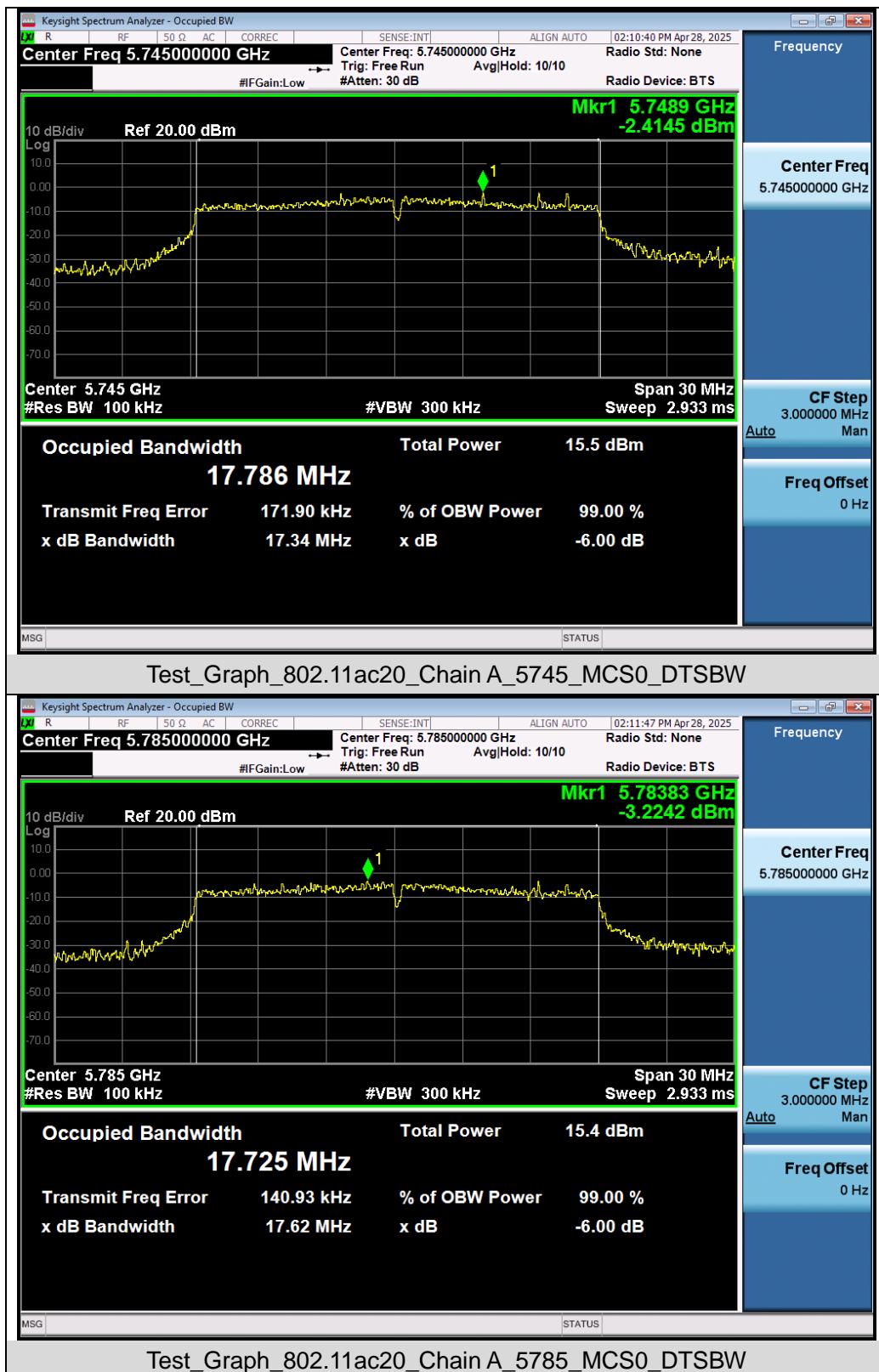


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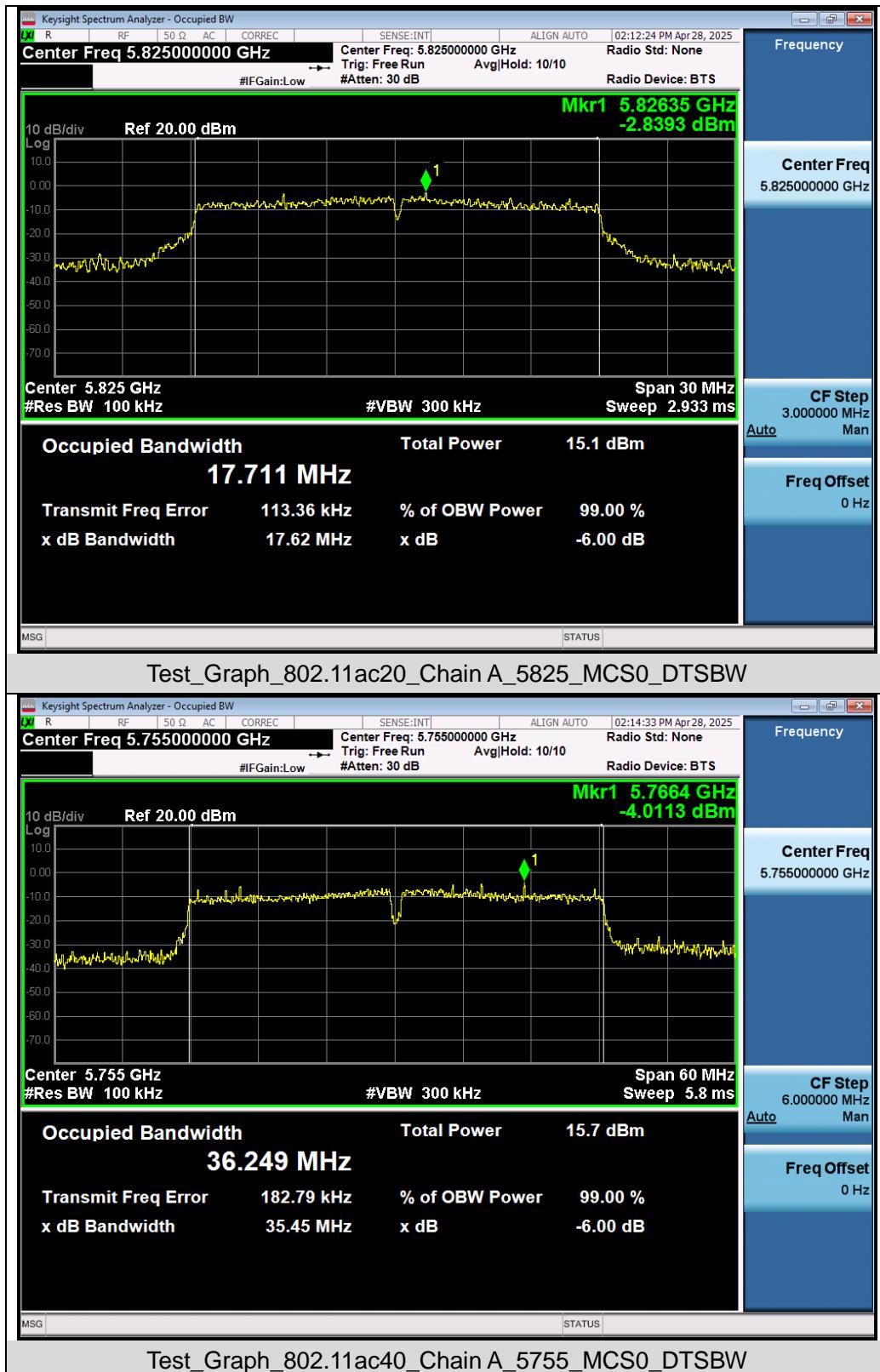


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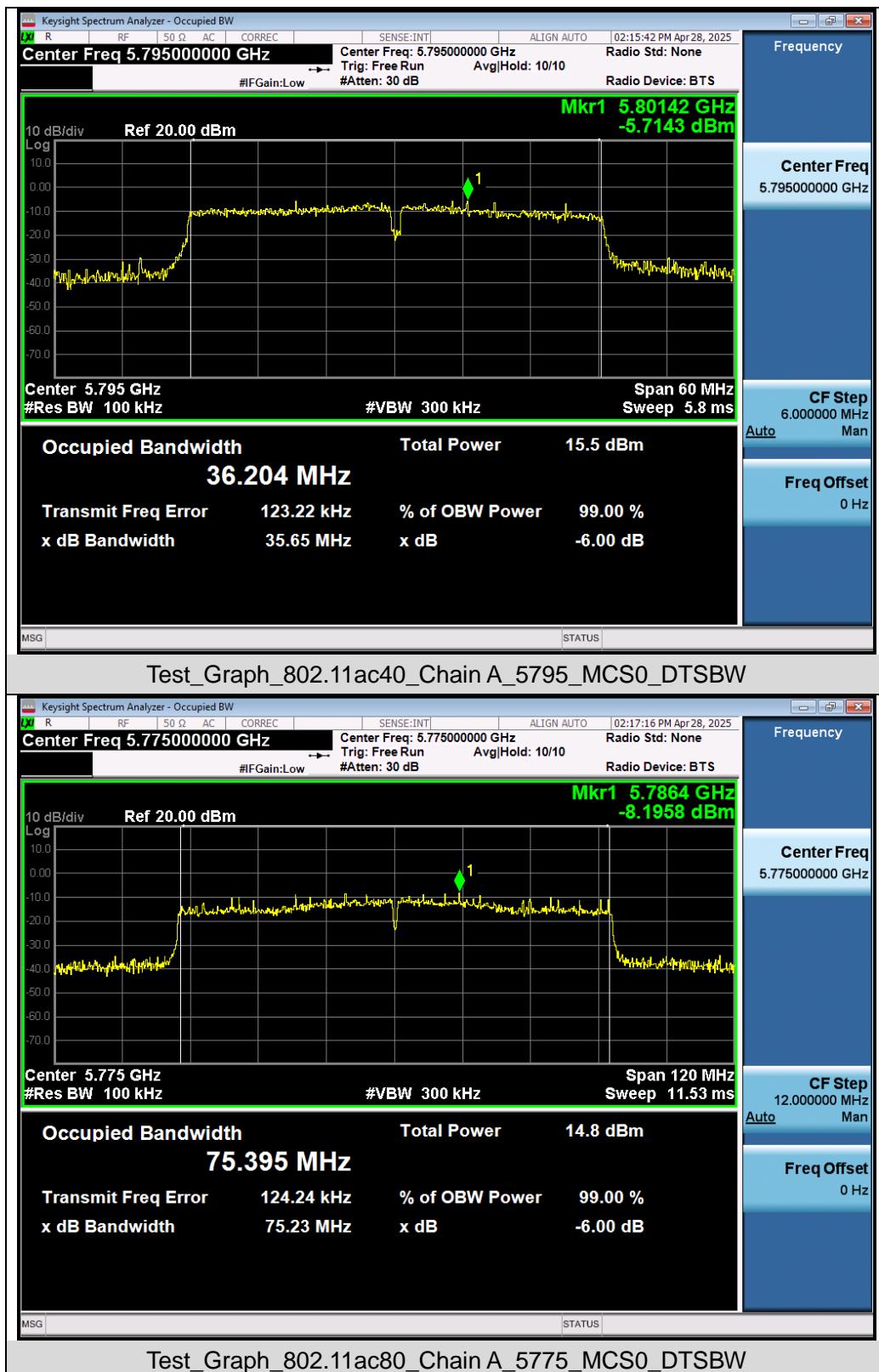


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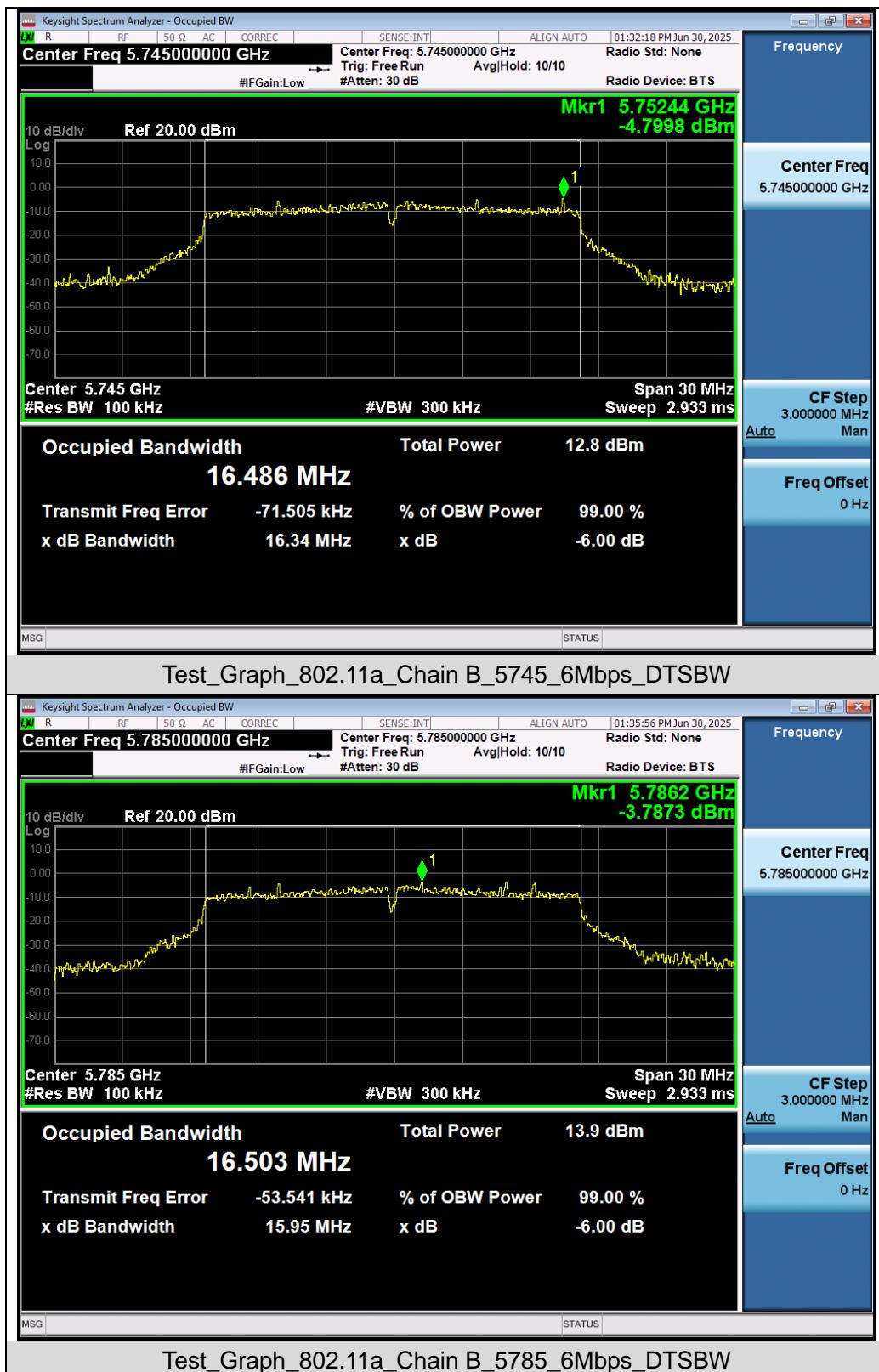


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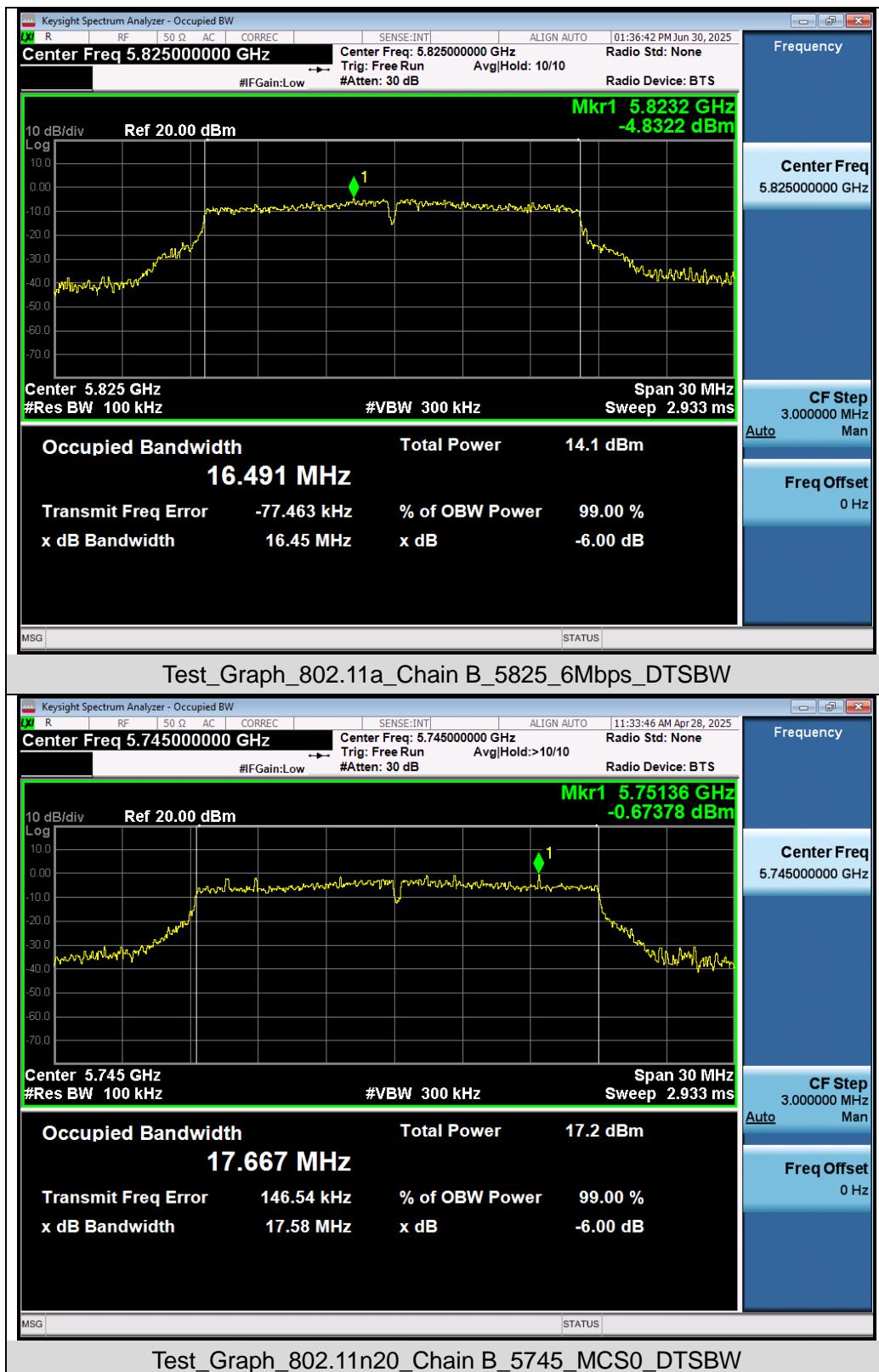


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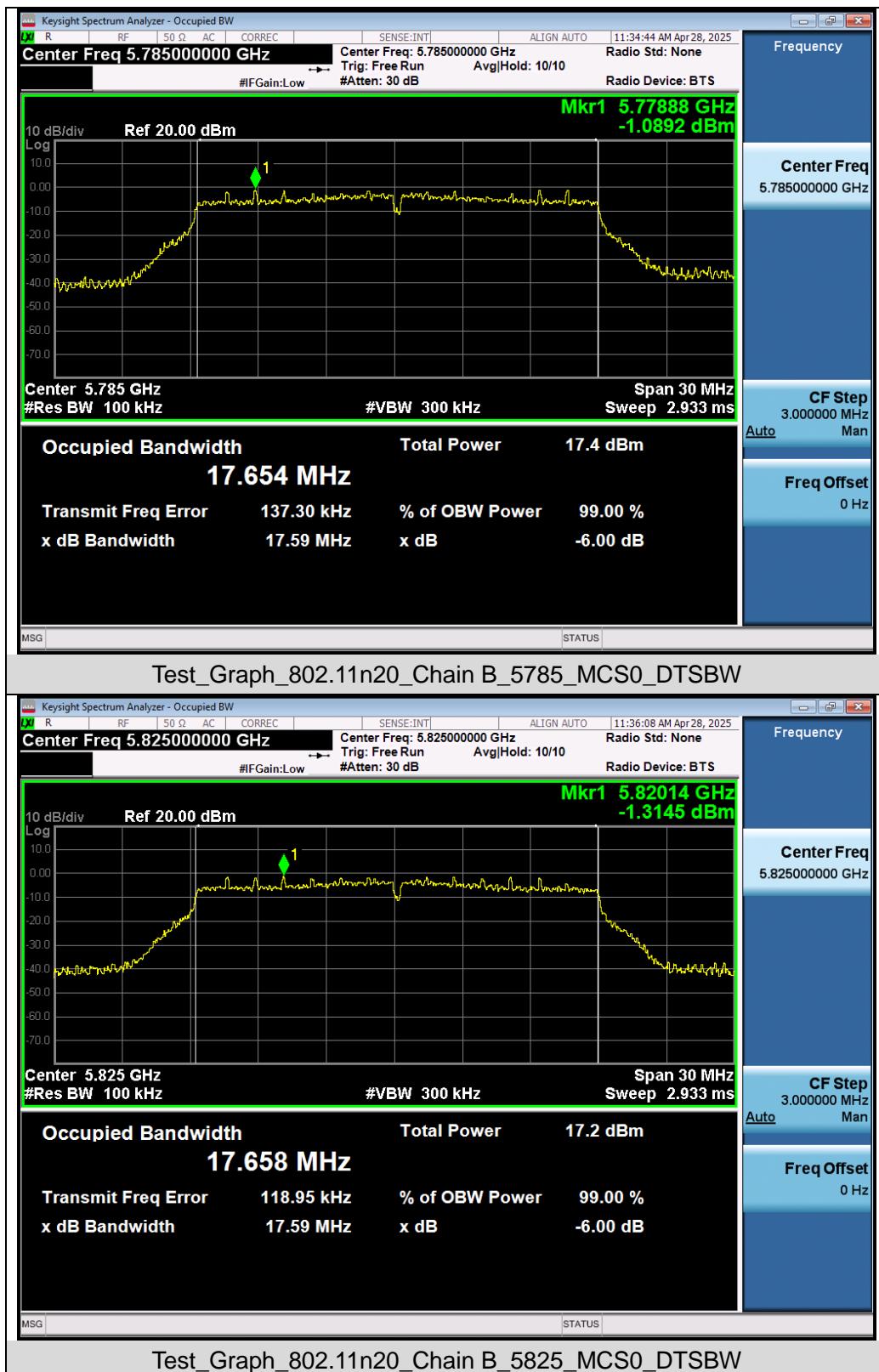


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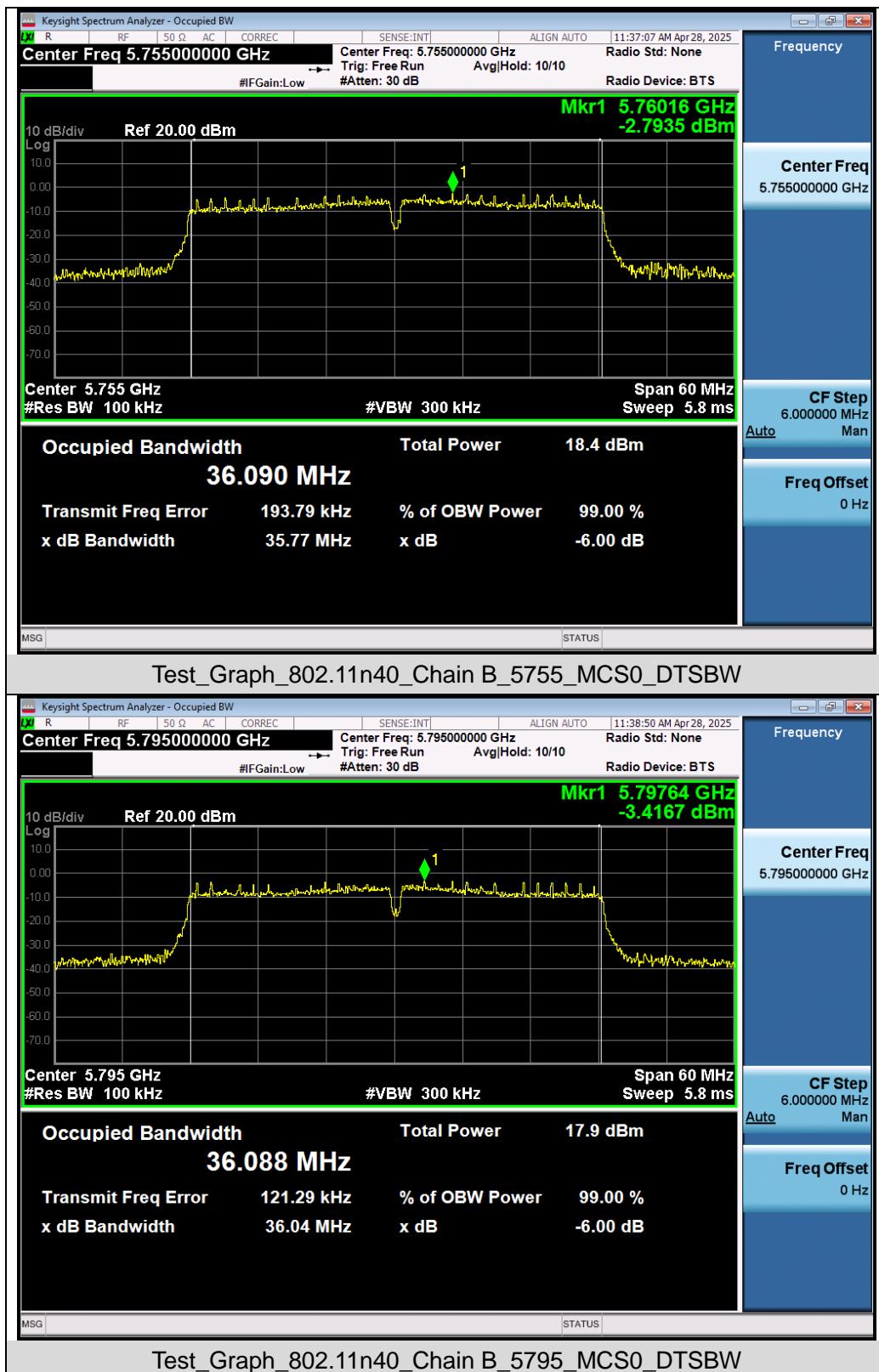


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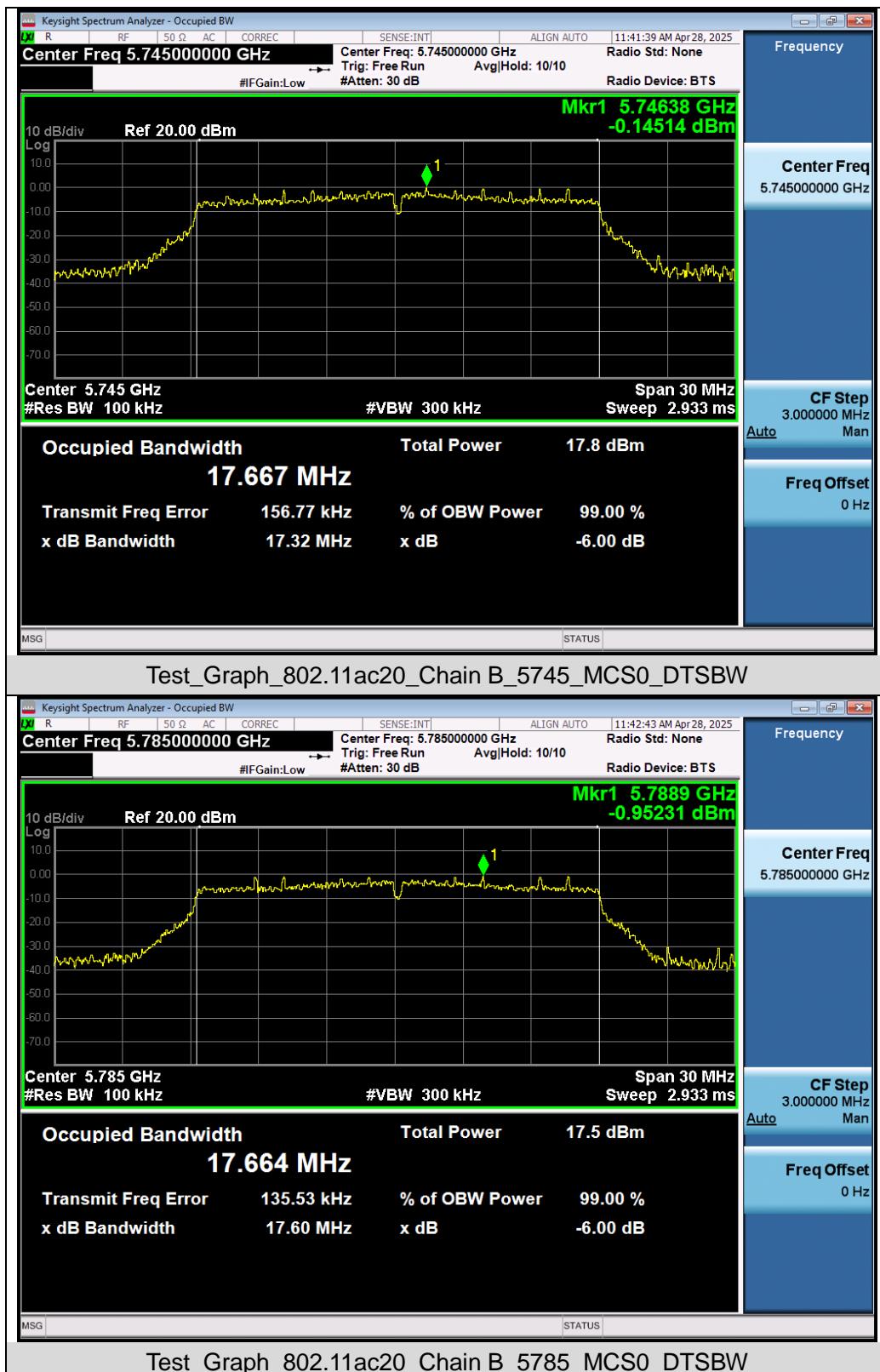


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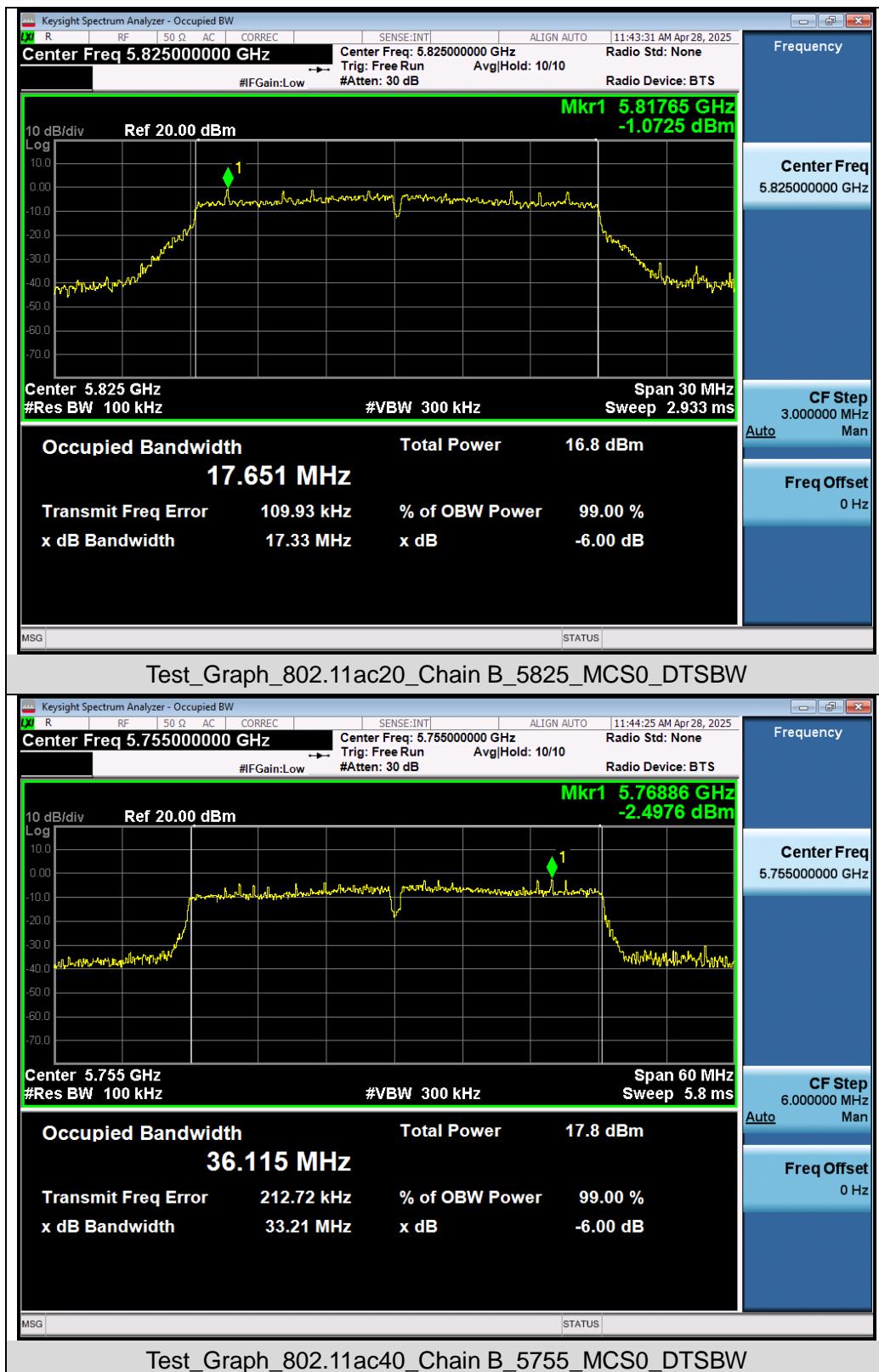


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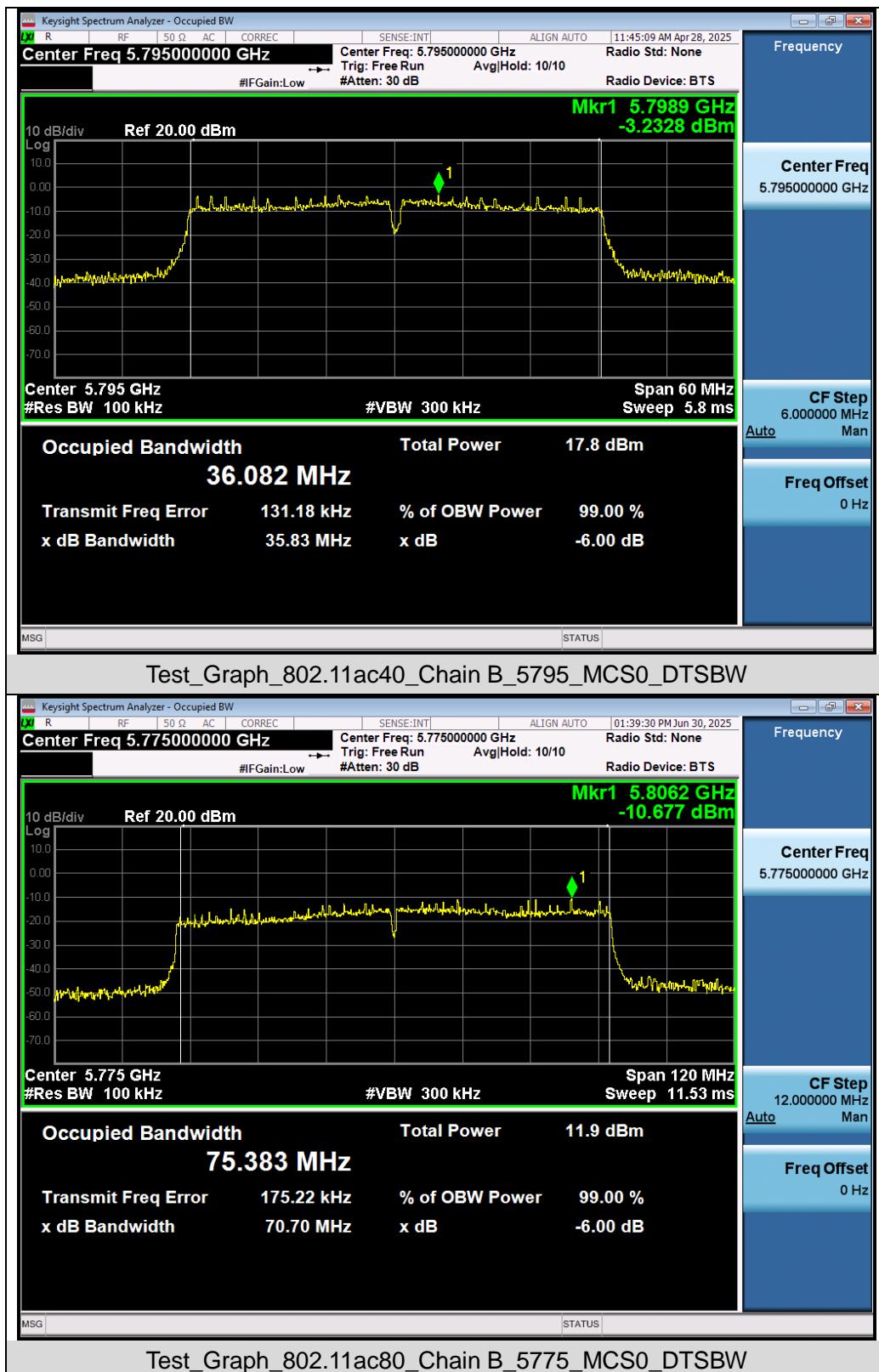


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9. Power Spectral Density Measurement

9.1 Provisions Applicable

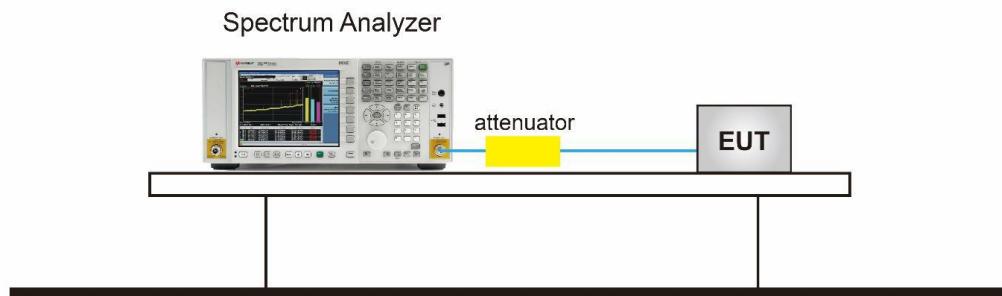
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		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-Chain A

Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	2.347	11	Pass
	5200	0.434	11	Pass
	5240	-0.407	11	Pass
802.11n20	5180	0.623	11	Pass
	5200	0.238	11	Pass
	5240	-0.823	11	Pass
802.11n40	5190	-4.045	11	Pass
	5230	-4.510	11	Pass
802.11ac20	5180	0.407	11	Pass
	5200	0.131	11	Pass
	5240	-0.287	11	Pass
802.11ac40	5190	-3.670	11	Pass
	5230	-4.789	11	Pass
802.11ac80	5210	-8.134	11	Pass

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-Chain B

Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	1.217	11	Pass
	5200	1.180	11	Pass
	5240	1.140	11	Pass
802.11n20	5180	0.303	11	Pass
	5200	0.108	11	Pass
	5240	-0.196	11	Pass
802.11n40	5190	-3.249	11	Pass
	5230	-3.311	11	Pass
802.11ac20	5180	0.236	11	Pass
	5200	0.115	11	Pass
	5240	-0.213	11	Pass
802.11ac40	5190	-3.071	11	Pass
	5230	-3.762	11	Pass
802.11ac80	5210	-6.845	11	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain A					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-8.899	-1.909	30	Pass
	5785	-9.010	-2.020	30	Pass
	5825	-9.674	-2.684	30	Pass
802.11n20	5745	-9.227	-2.237	30	Pass
	5785	-9.491	-2.501	30	Pass
	5825	-10.089	-3.099	30	Pass
802.11n40	5755	-12.316	-5.326	30	Pass
	5795	-12.650	-5.660	30	Pass
802.11ac20	5745	-9.664	-2.674	30	Pass
	5785	-9.102	-2.112	30	Pass
	5825	-9.893	-2.695	30	Pass
802.11ac40	5755	-12.564	-5.574	30	Pass
	5795	-12.639	-5.649	30	Pass
802.11ac80	5775	-16.358	-9.368	30	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain B					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-11.602	-4.612	30	Pass
	5785	-10.866	-3.876	30	Pass
	5825	-10.234	-3.244	30	Pass
802.11n20	5745	-7.967	-0.977	30	Pass
	5785	-8.250	-1.260	30	Pass
	5825	-8.892	-1.902	30	Pass
802.11n40	5755	-10.855	-3.865	30	Pass
	5795	-11.194	-4.204	30	Pass
802.11ac20	5745	-8.088	-1.098	30	Pass
	5785	-8.270	-1.280	30	Pass
	5825	-8.593	-1.603	30	Pass
802.11ac40	5755	-11.042	-4.052	30	Pass
	5795	-11.286	-4.296	30	Pass
802.11ac80	5775	-19.581	-12.591	30	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO

Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5180	3.476	11	Pass
	5200	3.184	11	Pass
	5240	2.512	11	Pass
802.11n40	5190	-0.618	11	Pass
	5230	-0.859	11	Pass
802.11ac20	5180	3.333	11	Pass
	5200	3.133	11	Pass
	5240	2.760	11	Pass
802.11ac40	5190	-0.350	11	Pass
	5230	-1.235	11	Pass
802.11ac80	5210	-4.432	11	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-MIMO

Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11n20	5745	-5.541	1.449	30	Pass
	5785	-5.816	1.174	30	Pass
	5825	-6.439	0.551	30	Pass
802.11n40	5755	-8.514	-1.524	30	Pass
	5795	-8.851	-1.861	30	Pass
802.11ac20	5745	-5.795	1.195	30	Pass
	5785	-5.656	1.334	30	Pass
	5825	-6.184	0.896	30	Pass
802.11ac40	5755	-8.726	-1.736	30	Pass
	5795	-8.900	-1.910	30	Pass
802.11ac80	5775	-14.677	-7.677	30	Pass

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

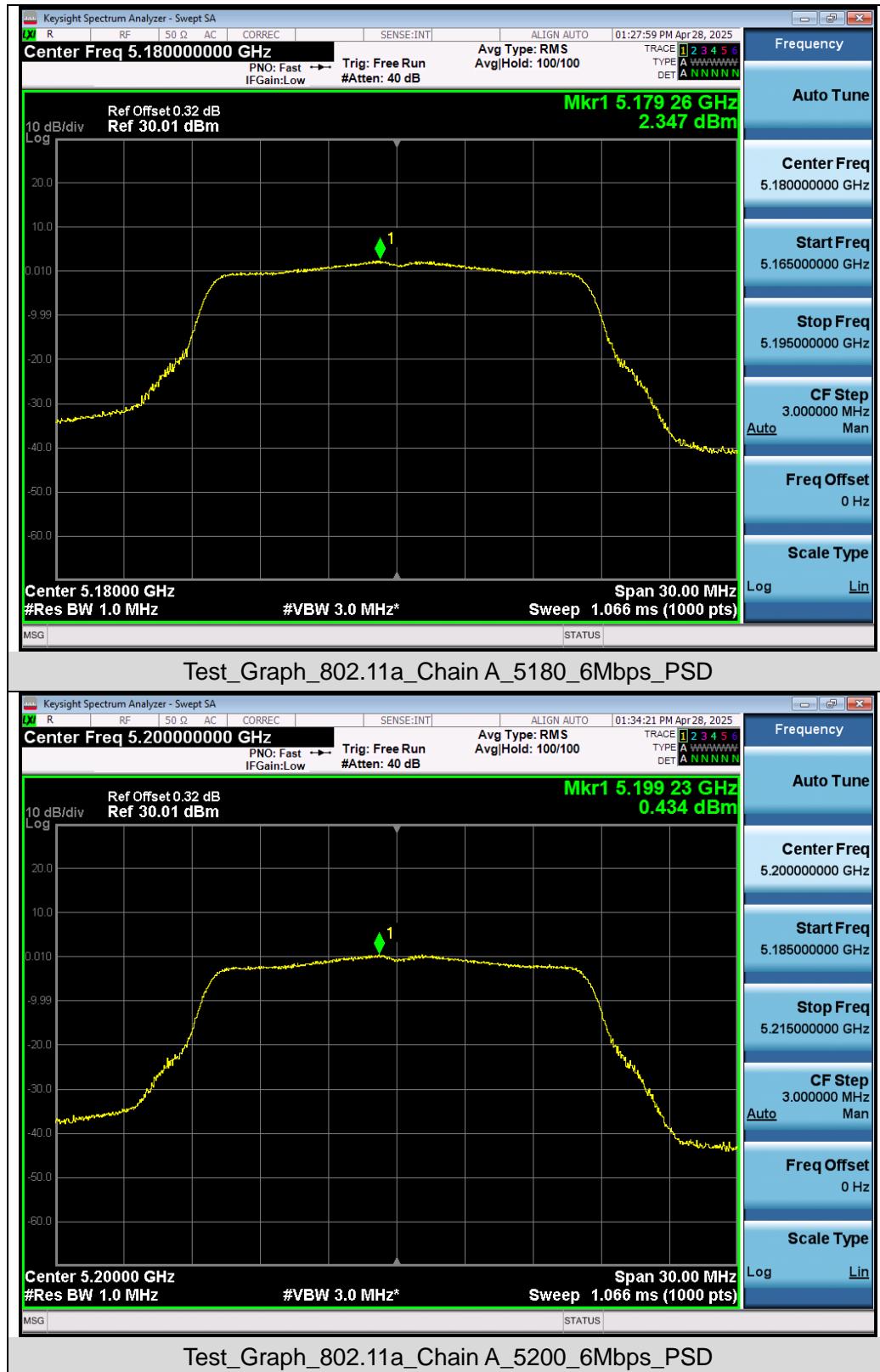
 2.The Total PSD(dBm/500kHz) = $10^{\log \{10^{(\text{Chain A PSD/10})} + 10^{(\text{Chain B PSD/10})}\}}$ (dBm/500kHz).

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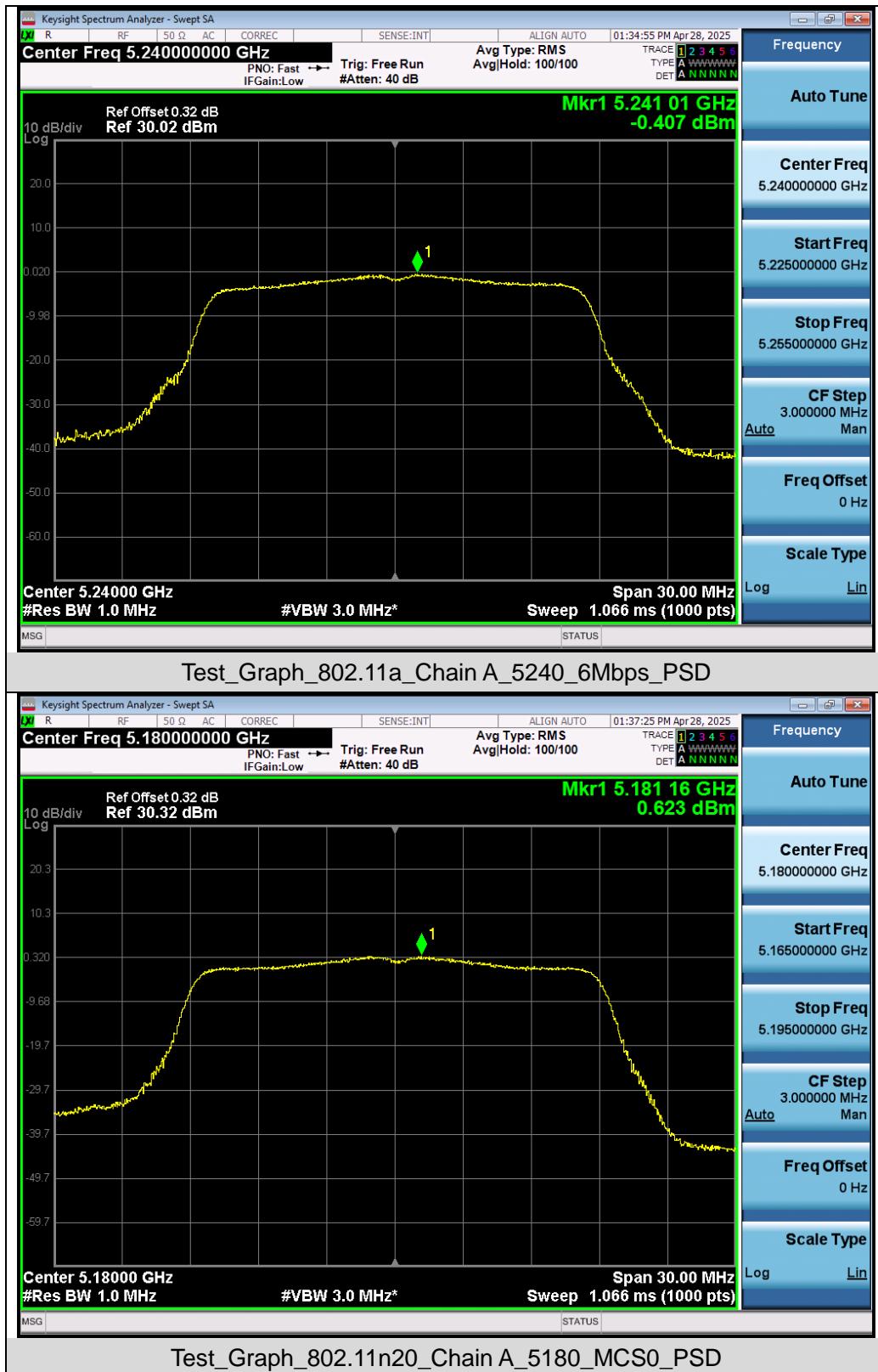
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz


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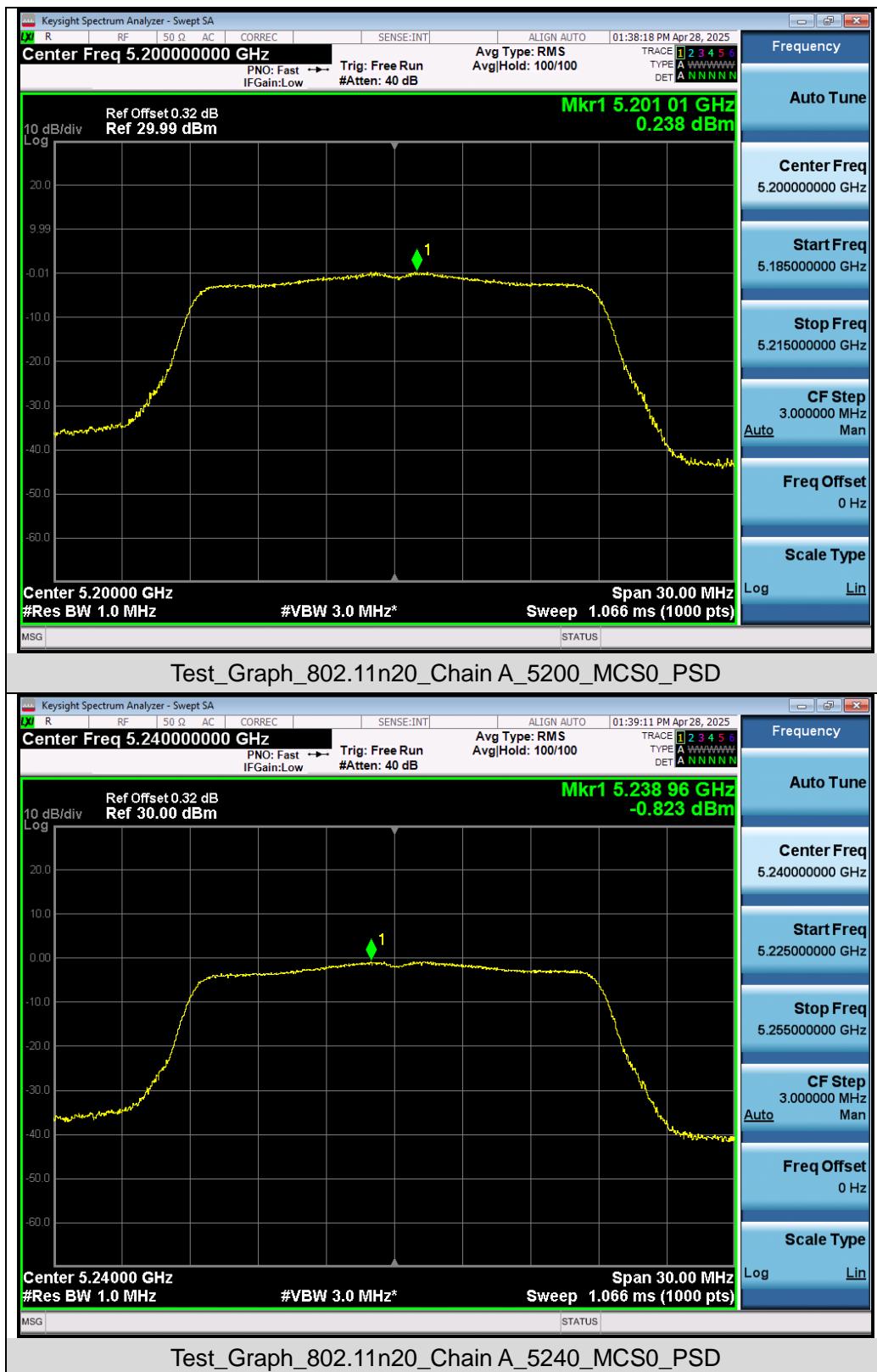


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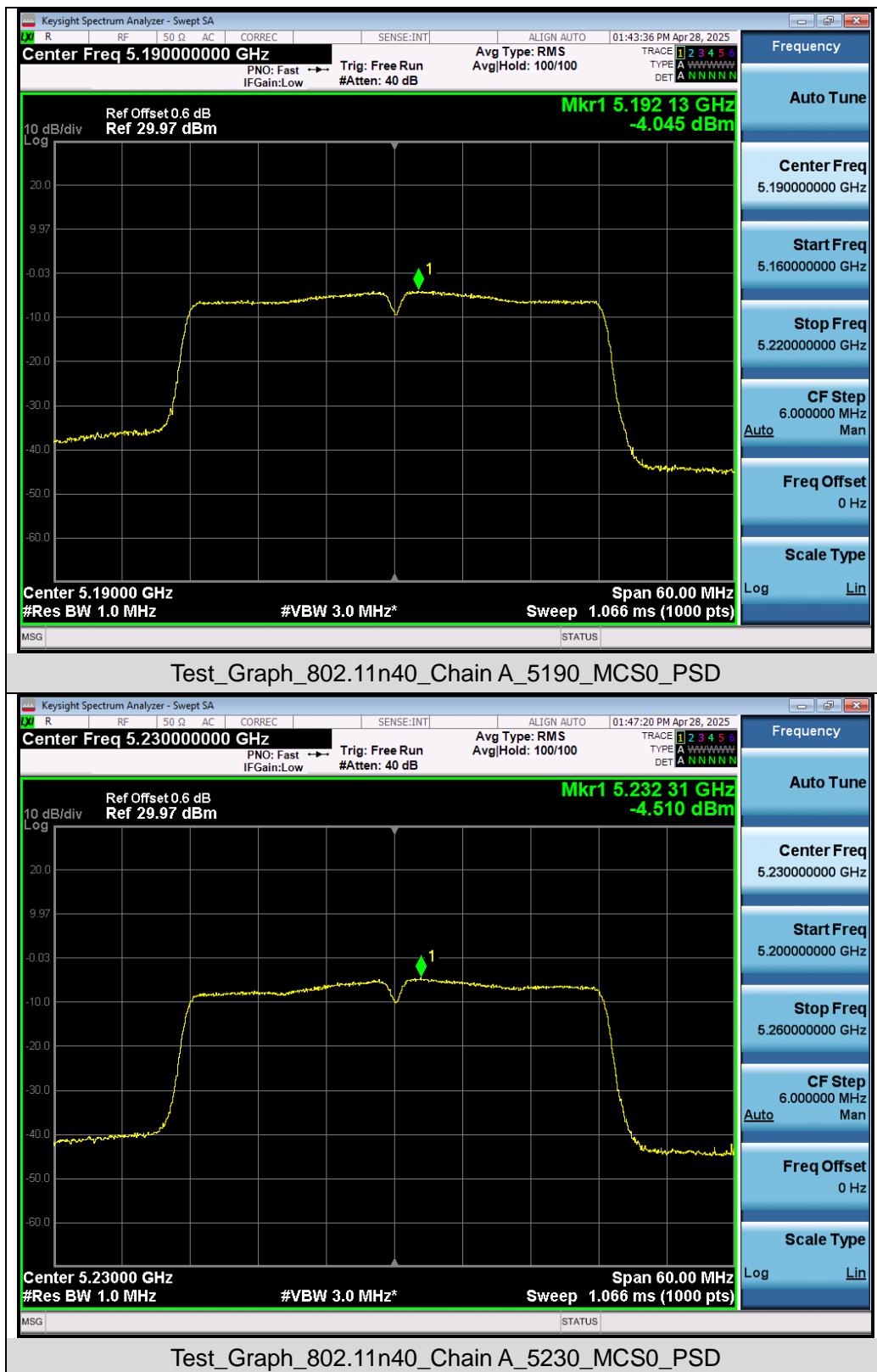


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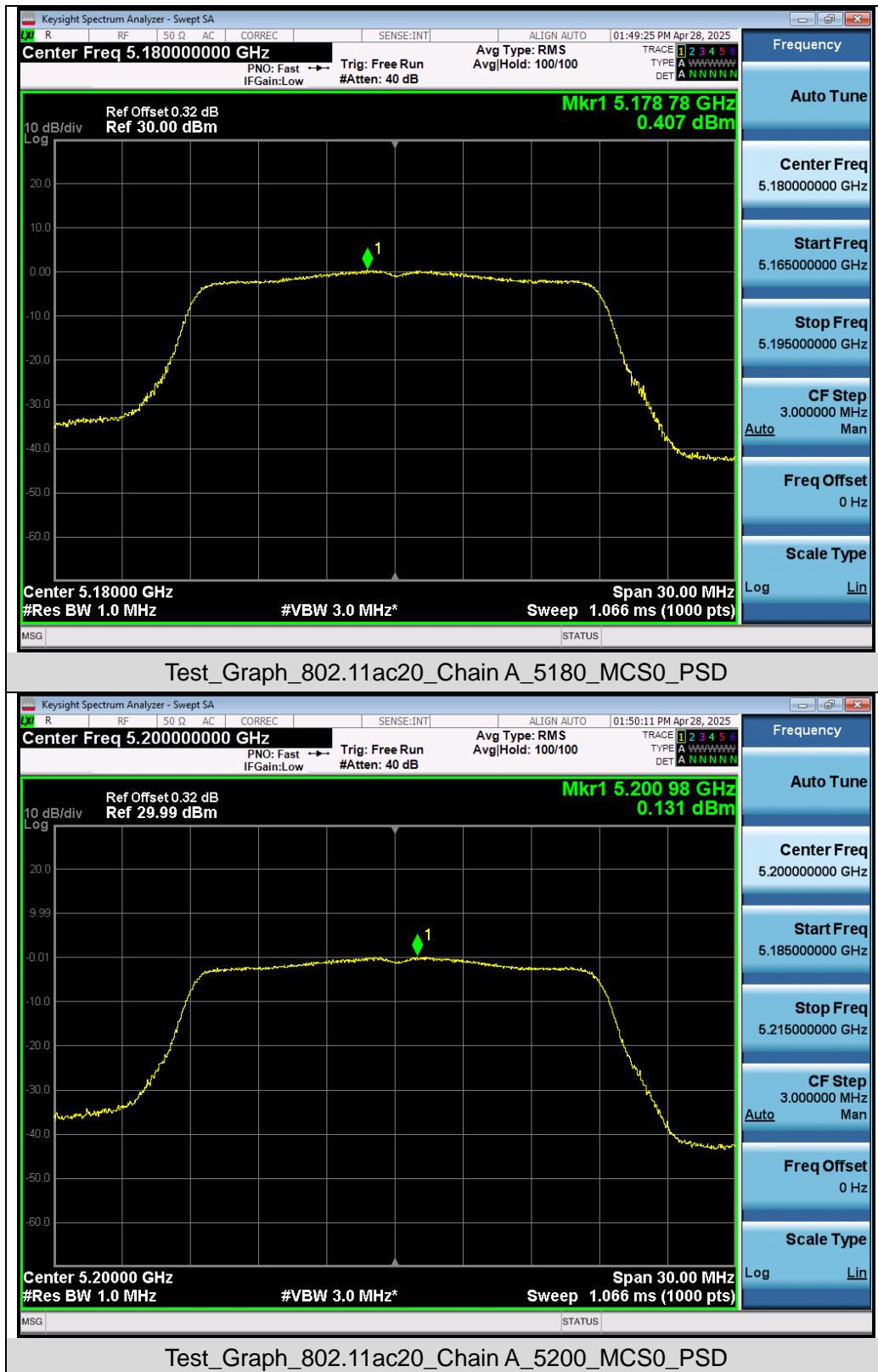


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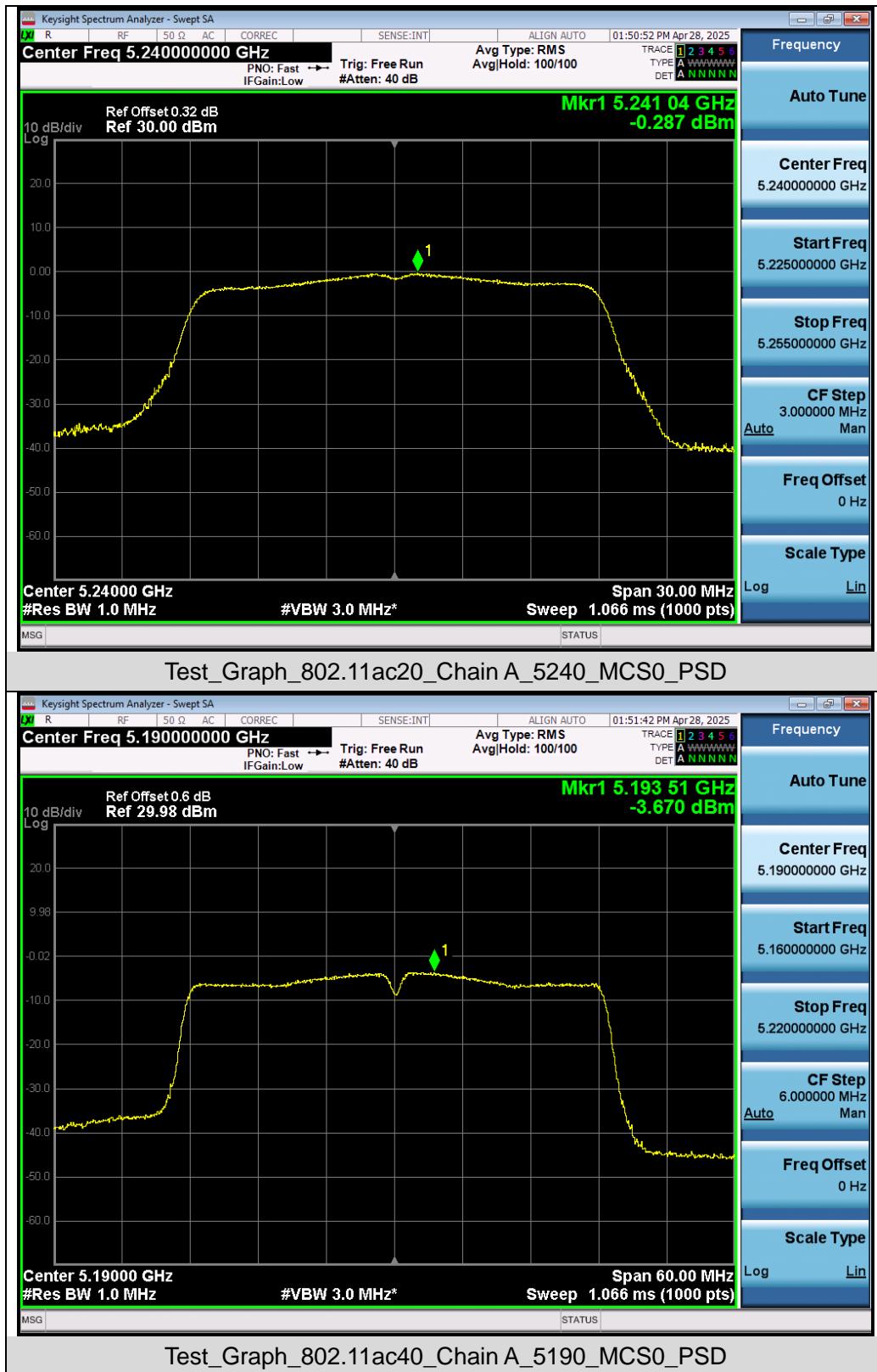


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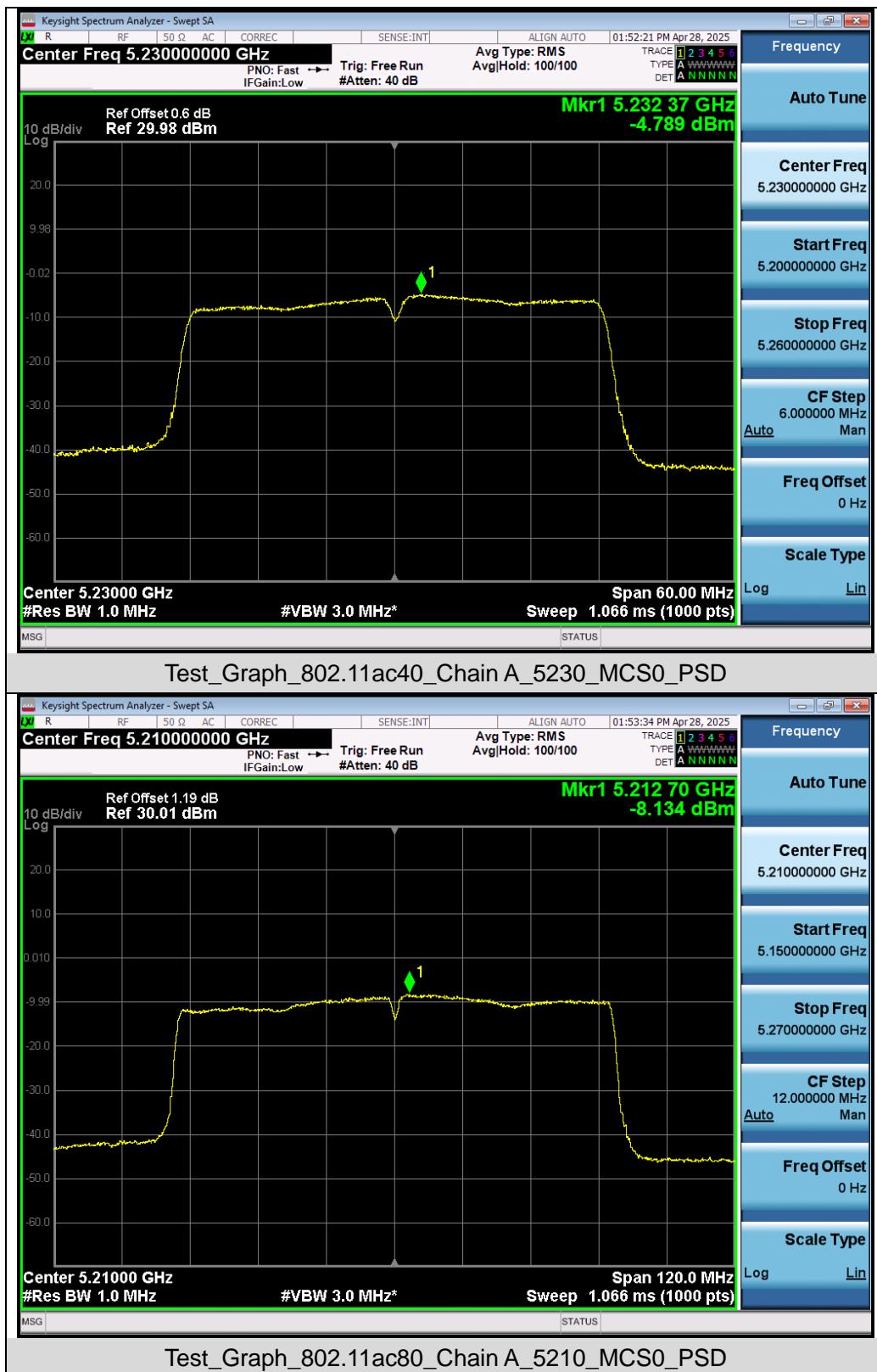


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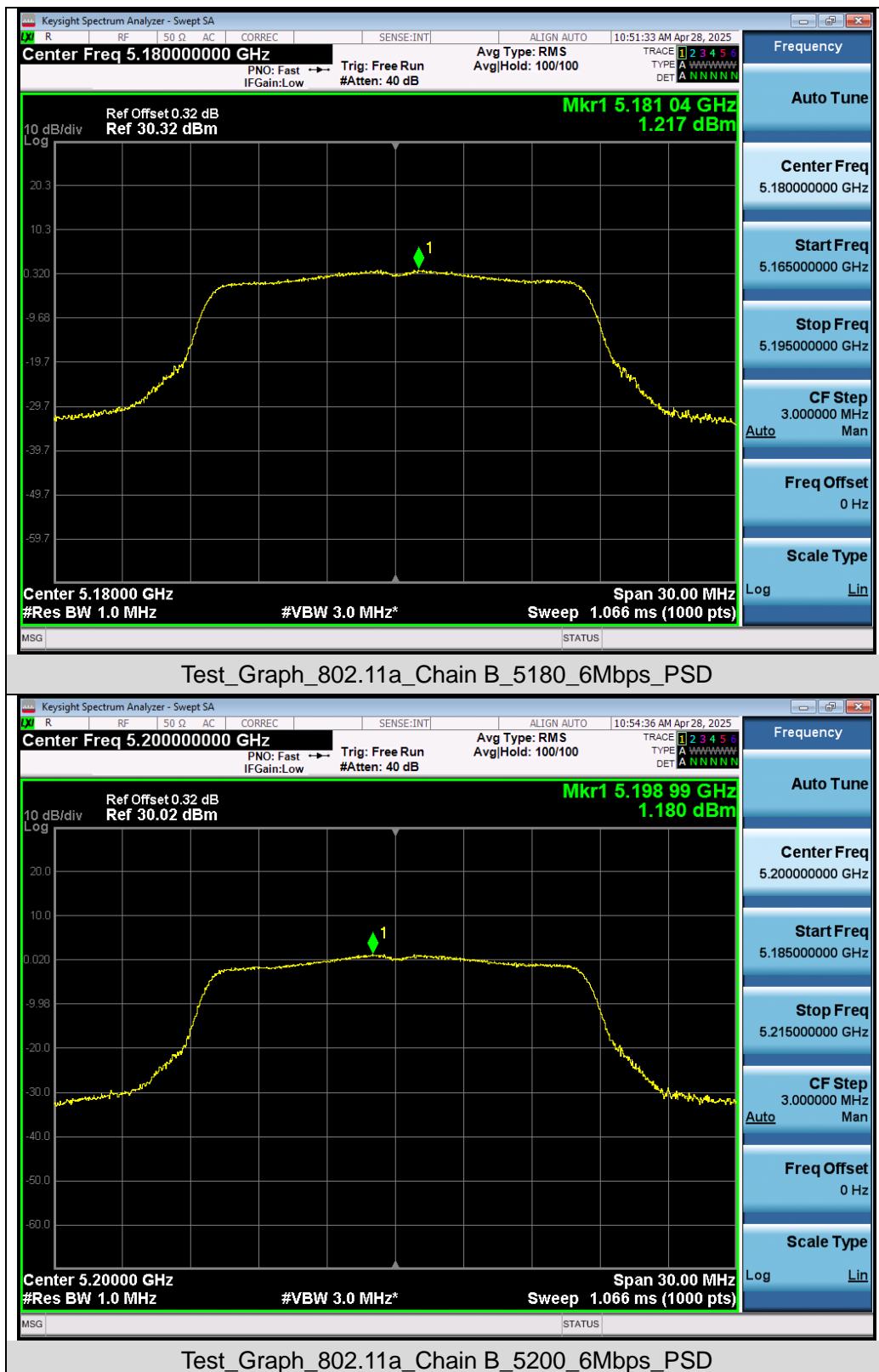


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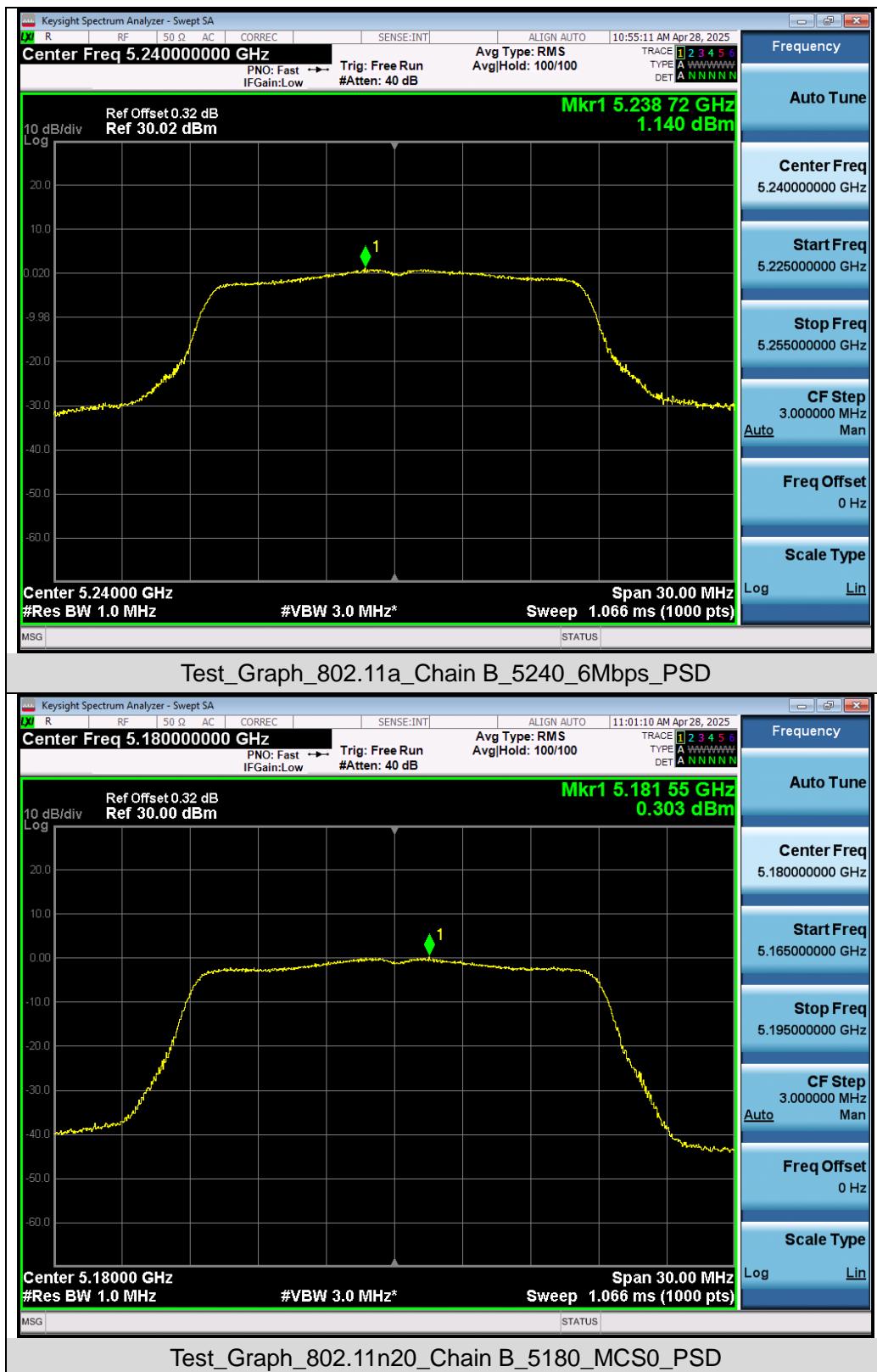


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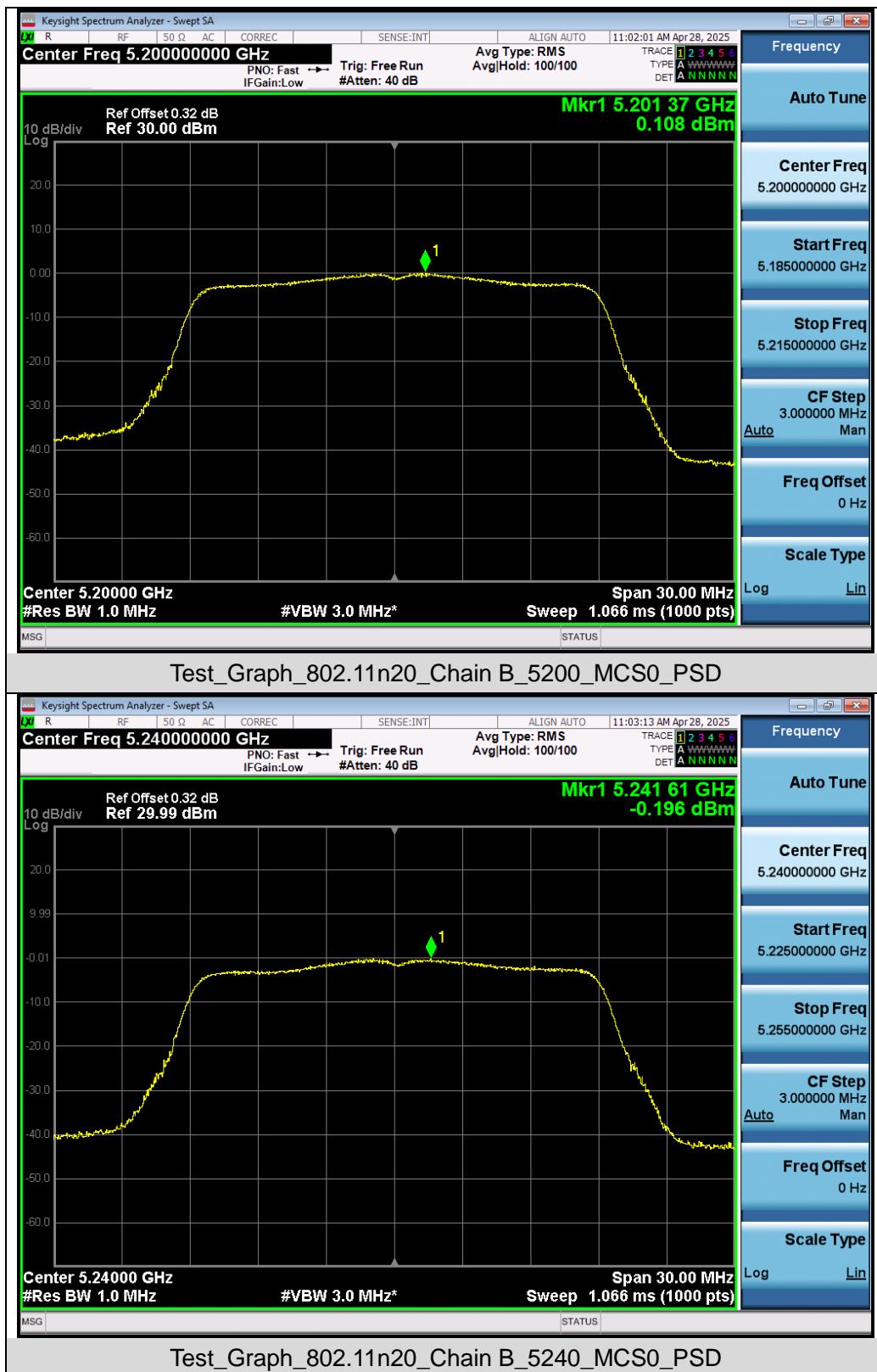


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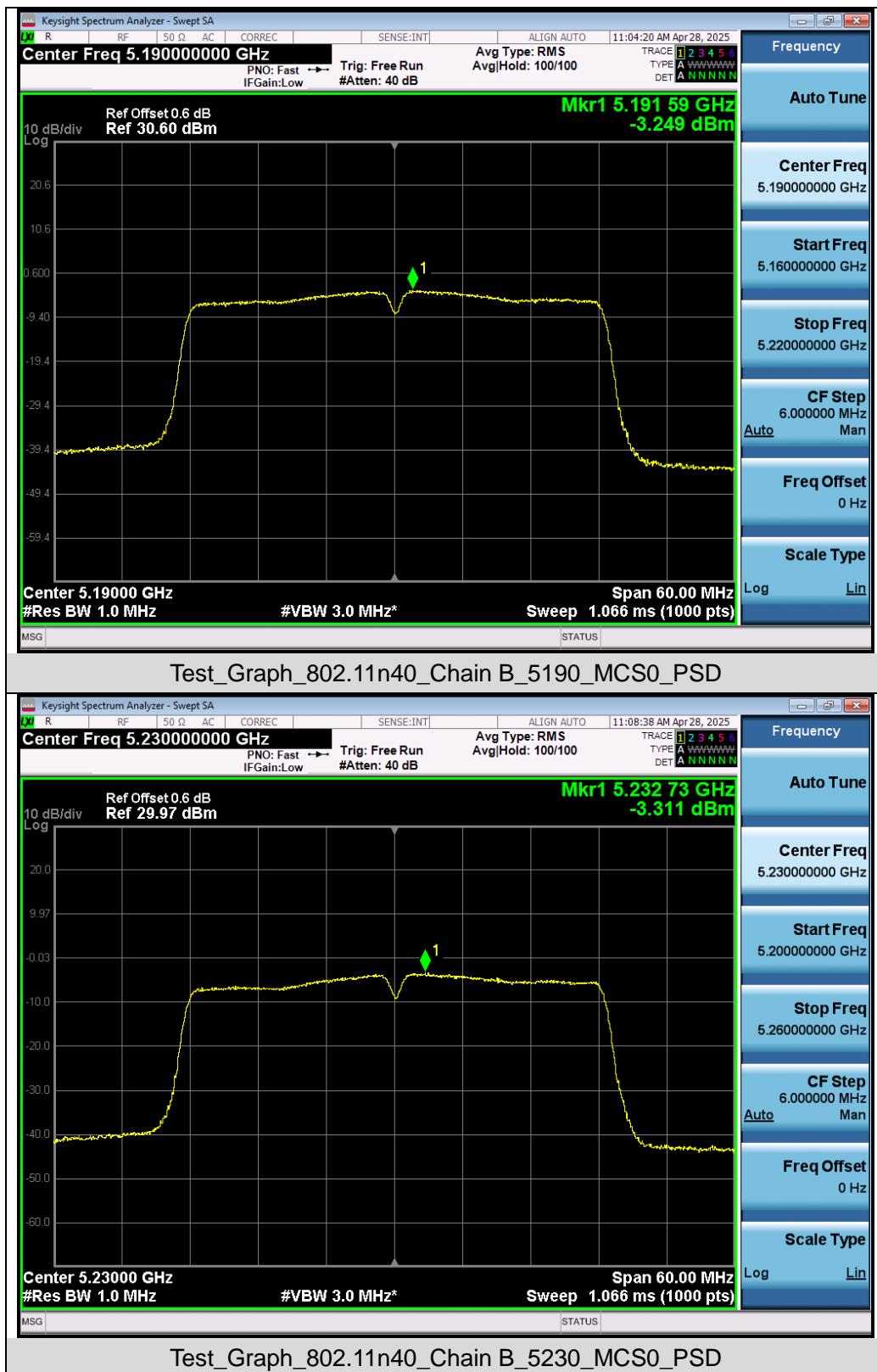


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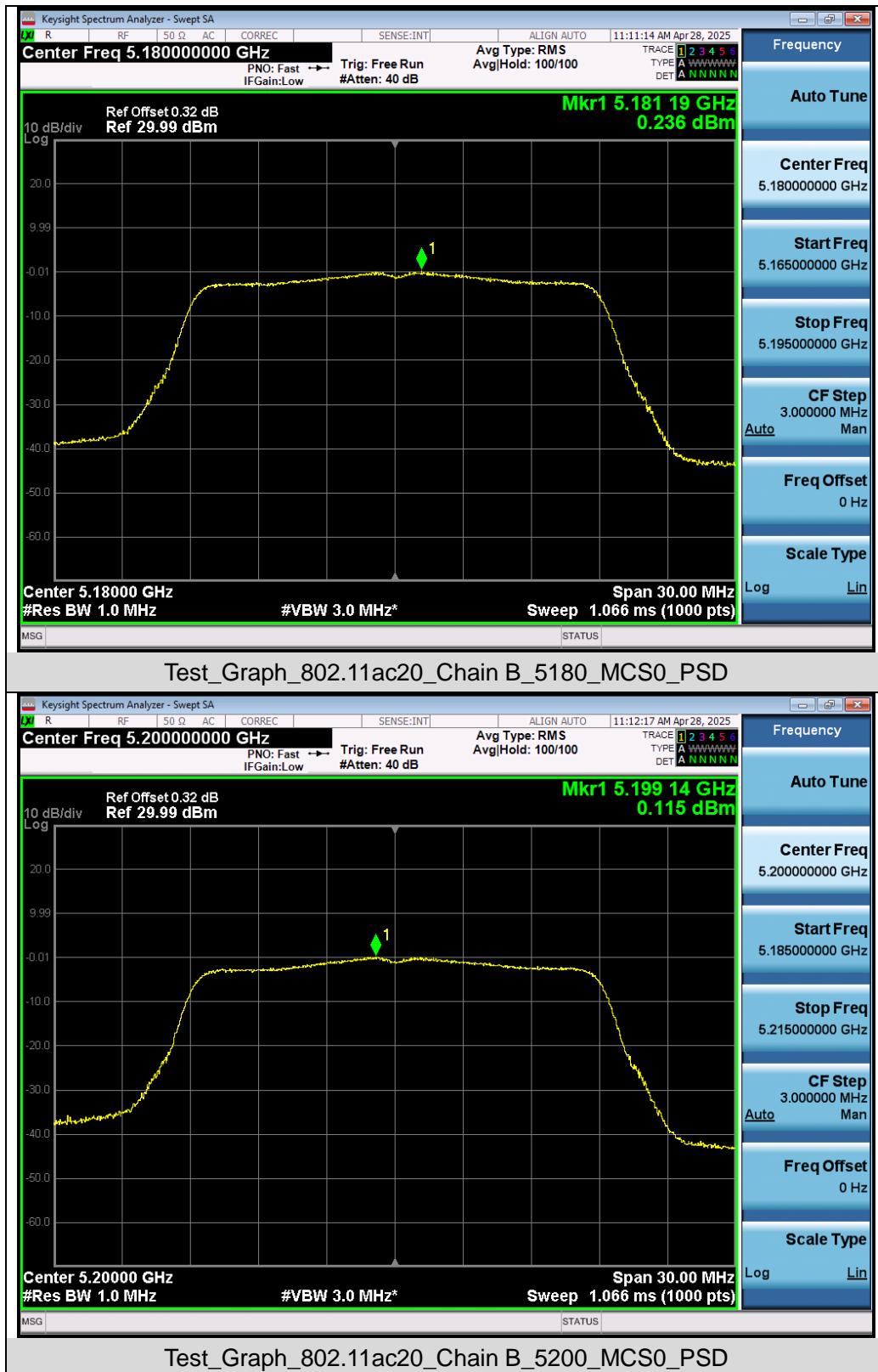


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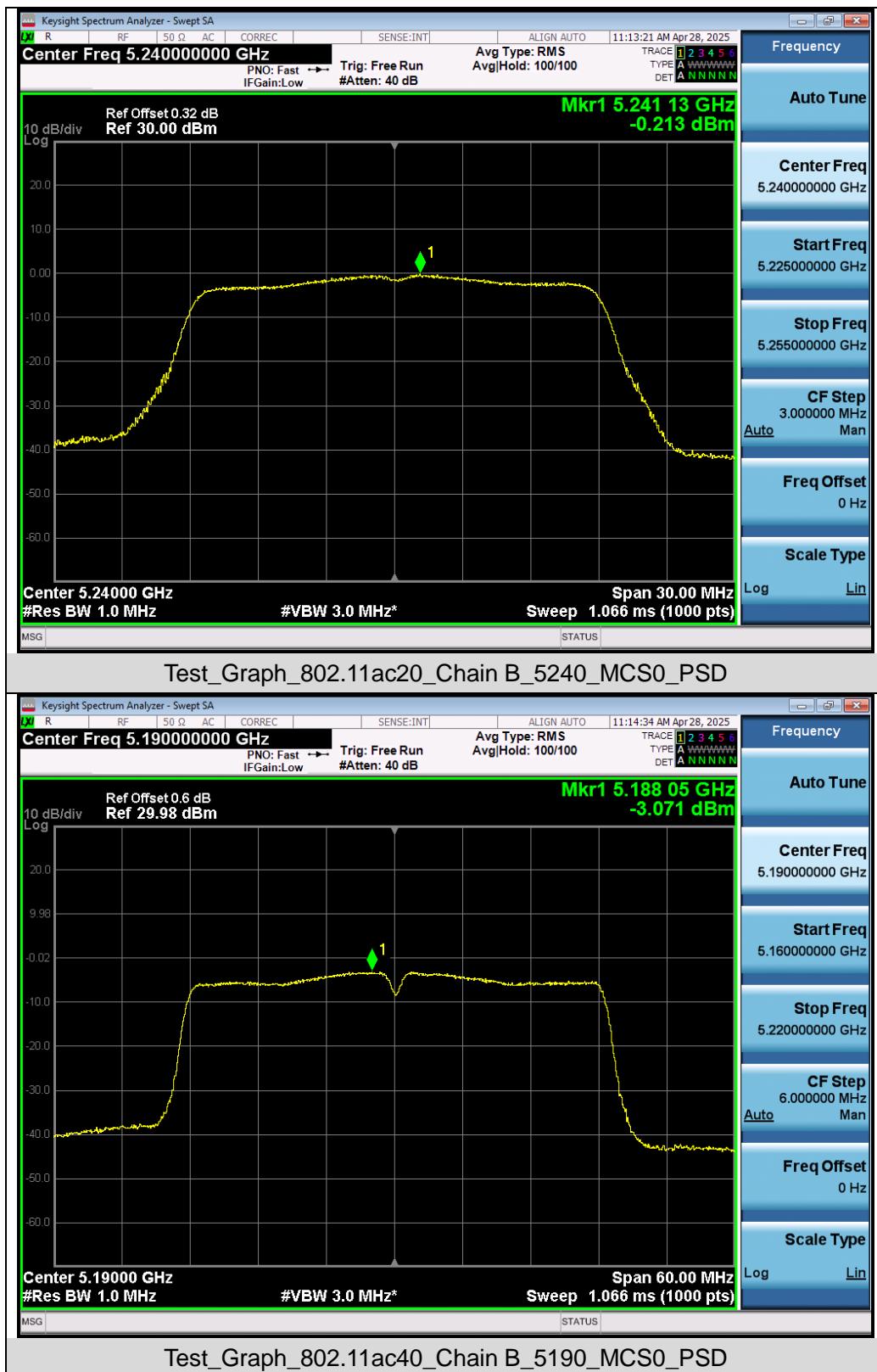


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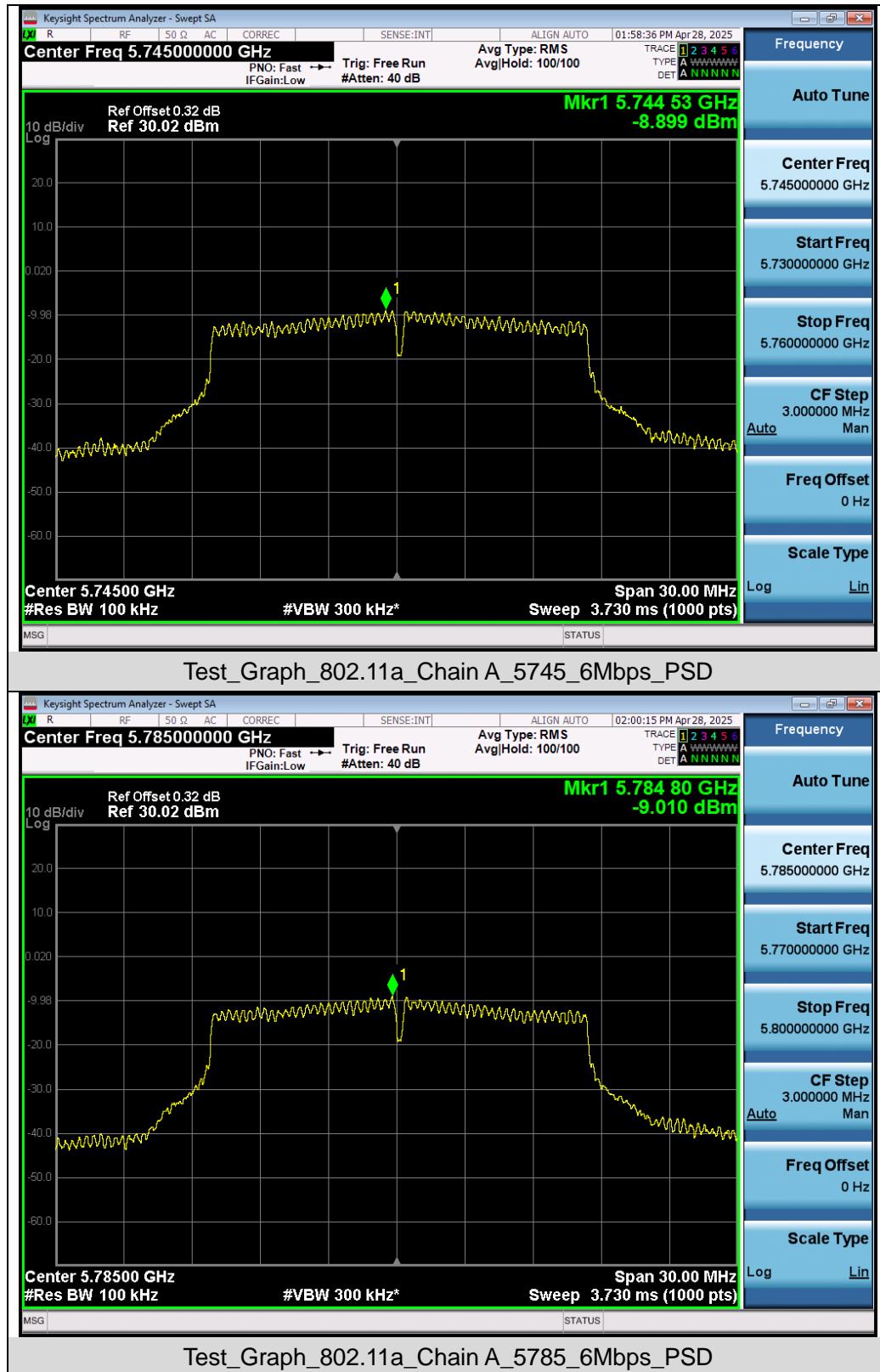


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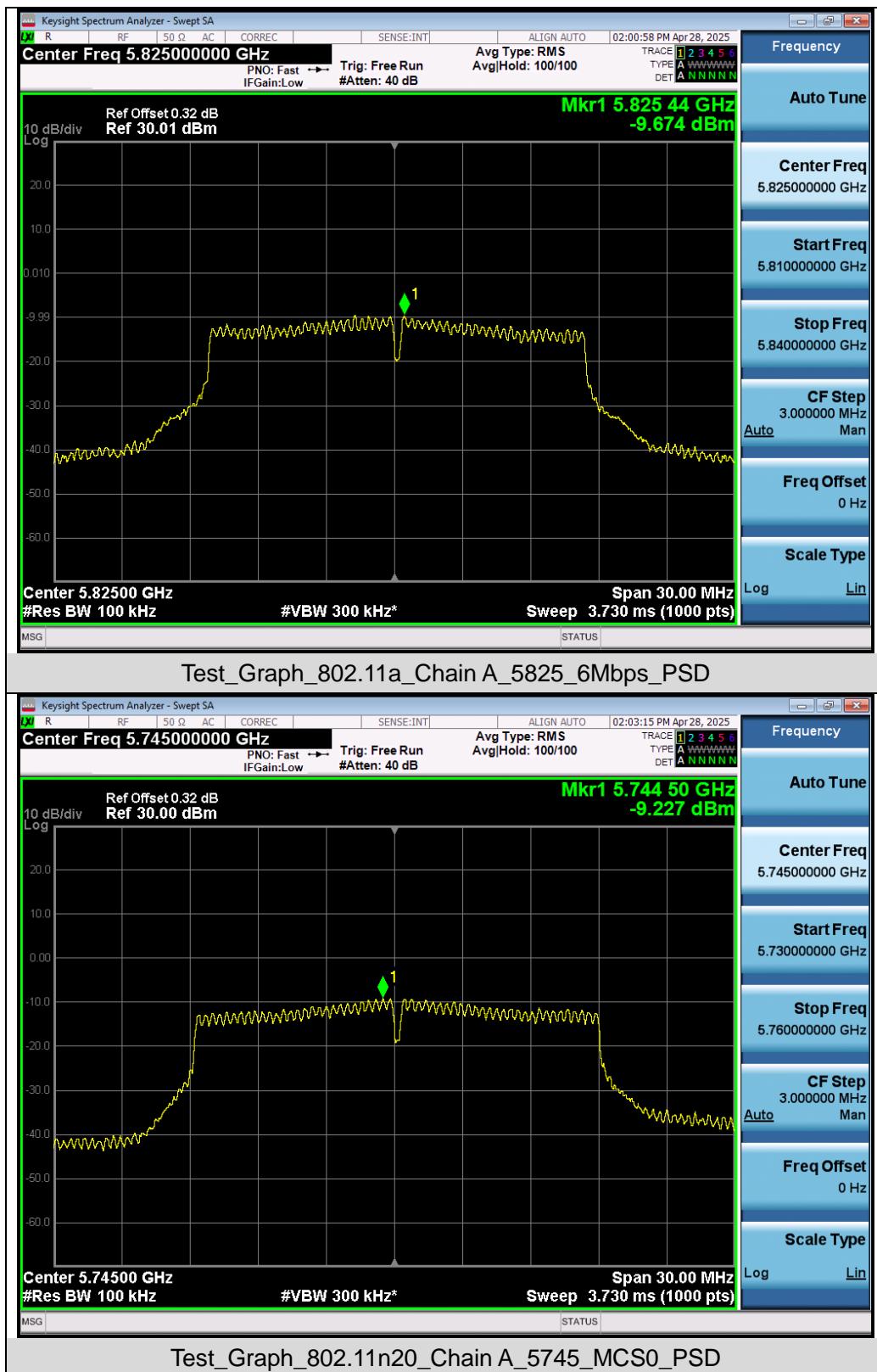
Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz


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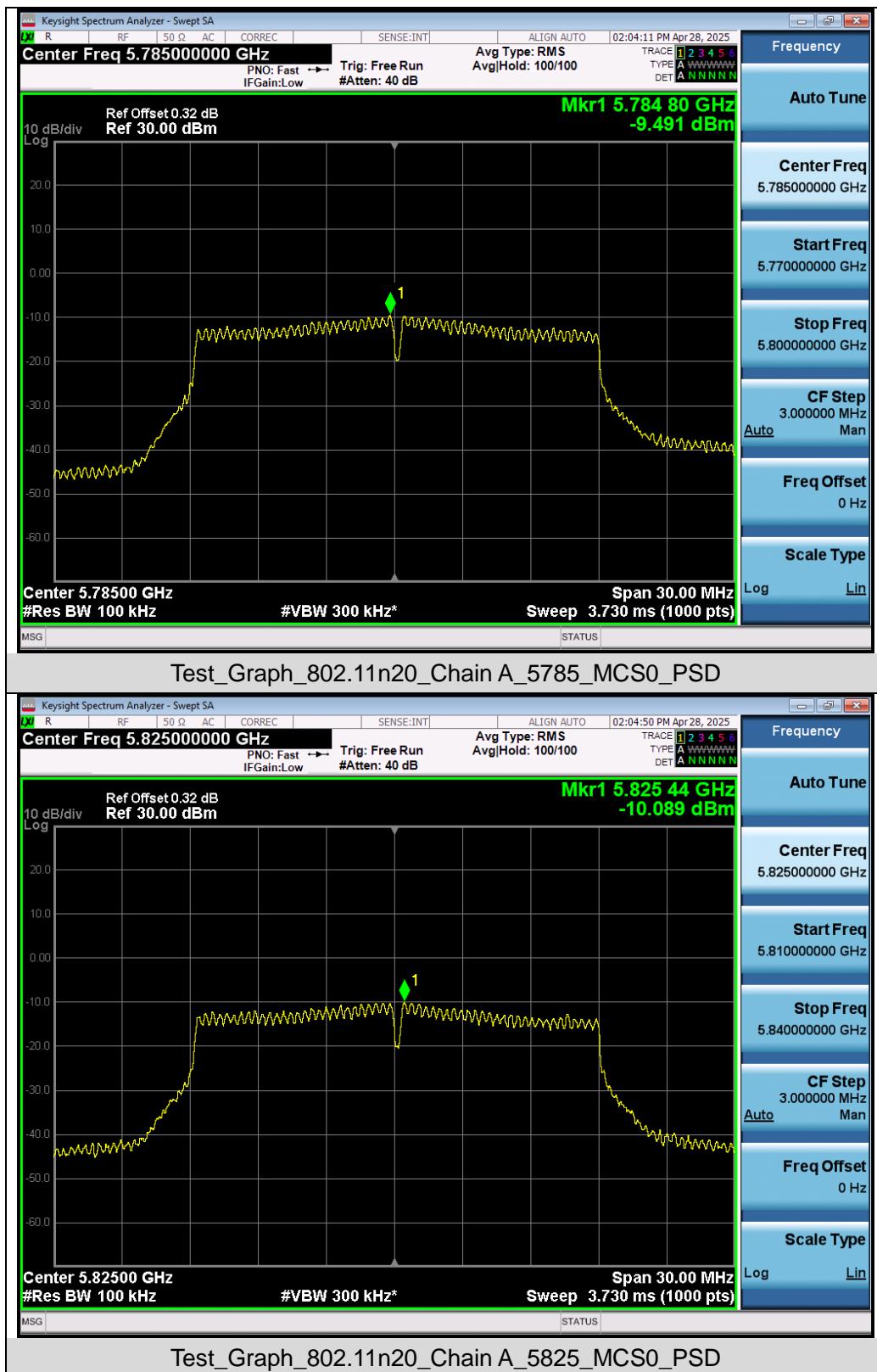


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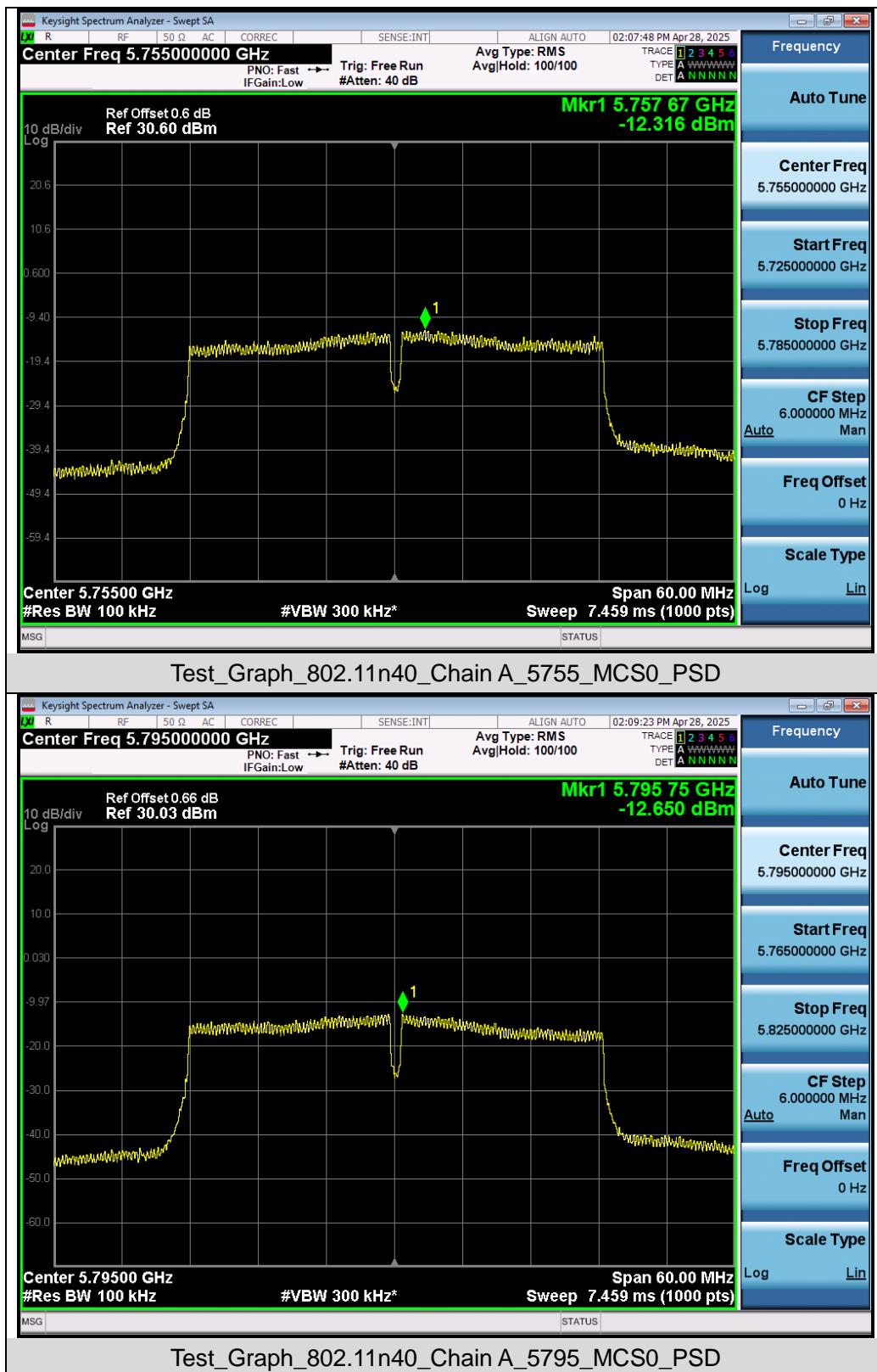


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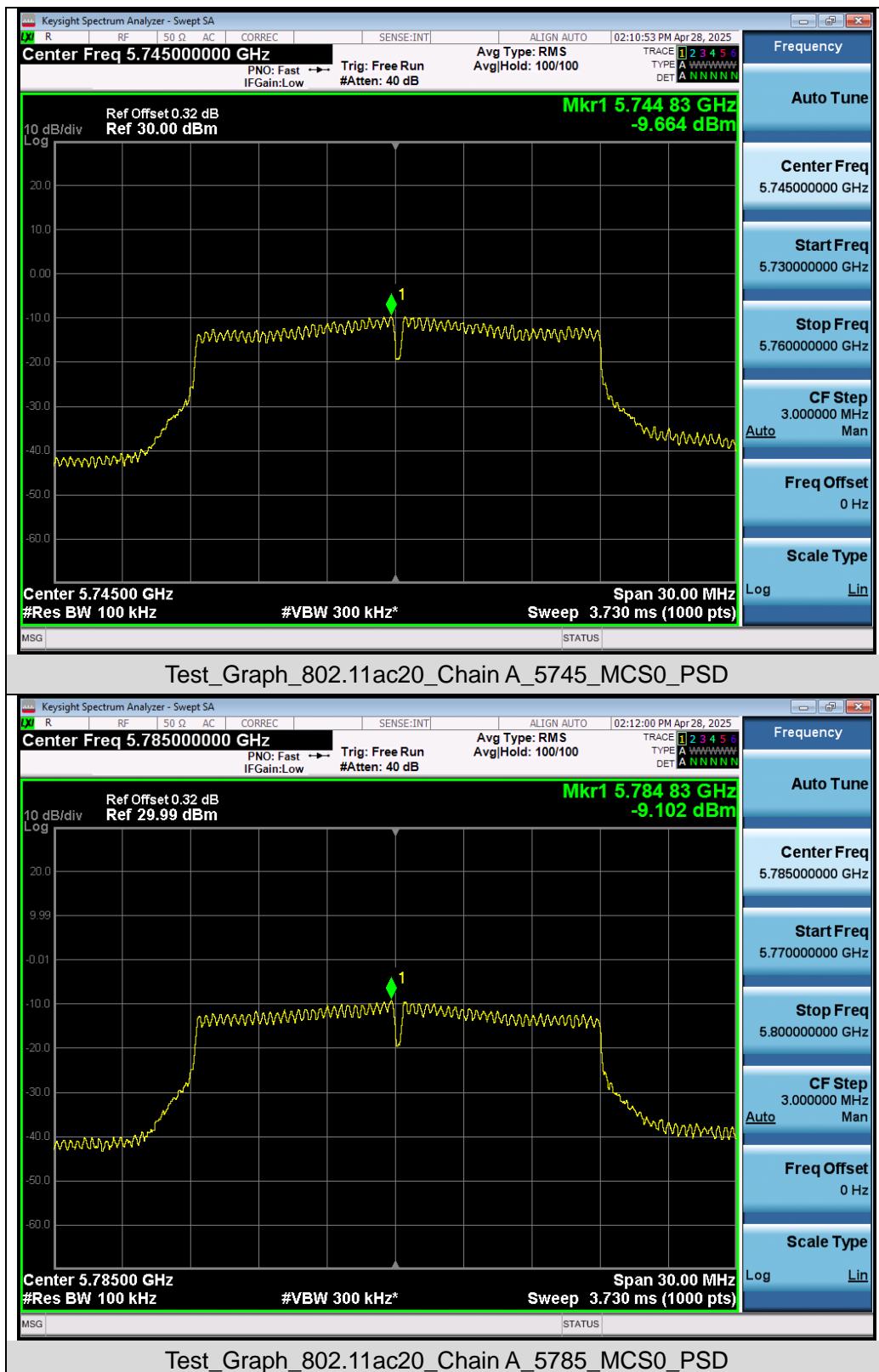


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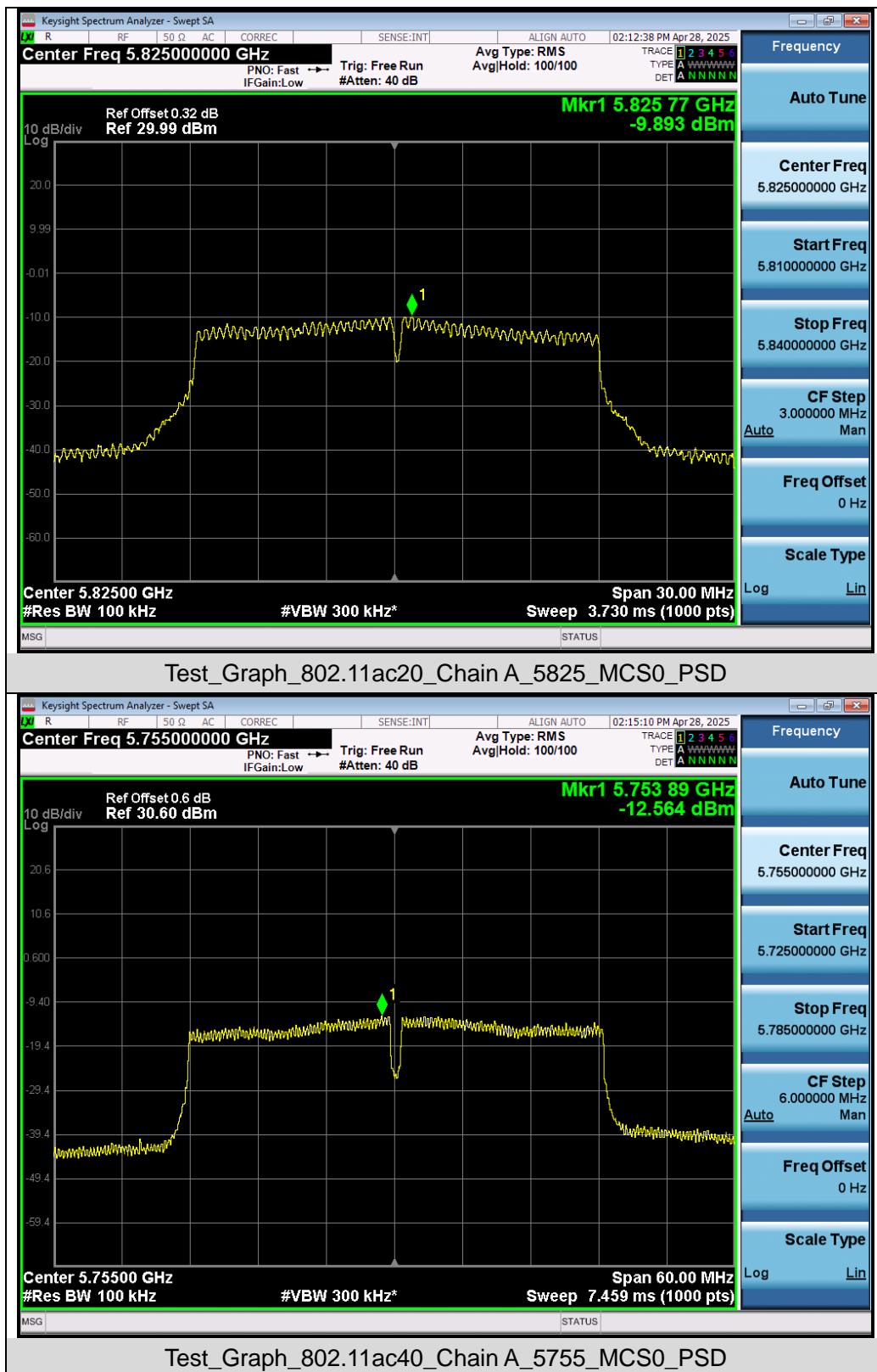


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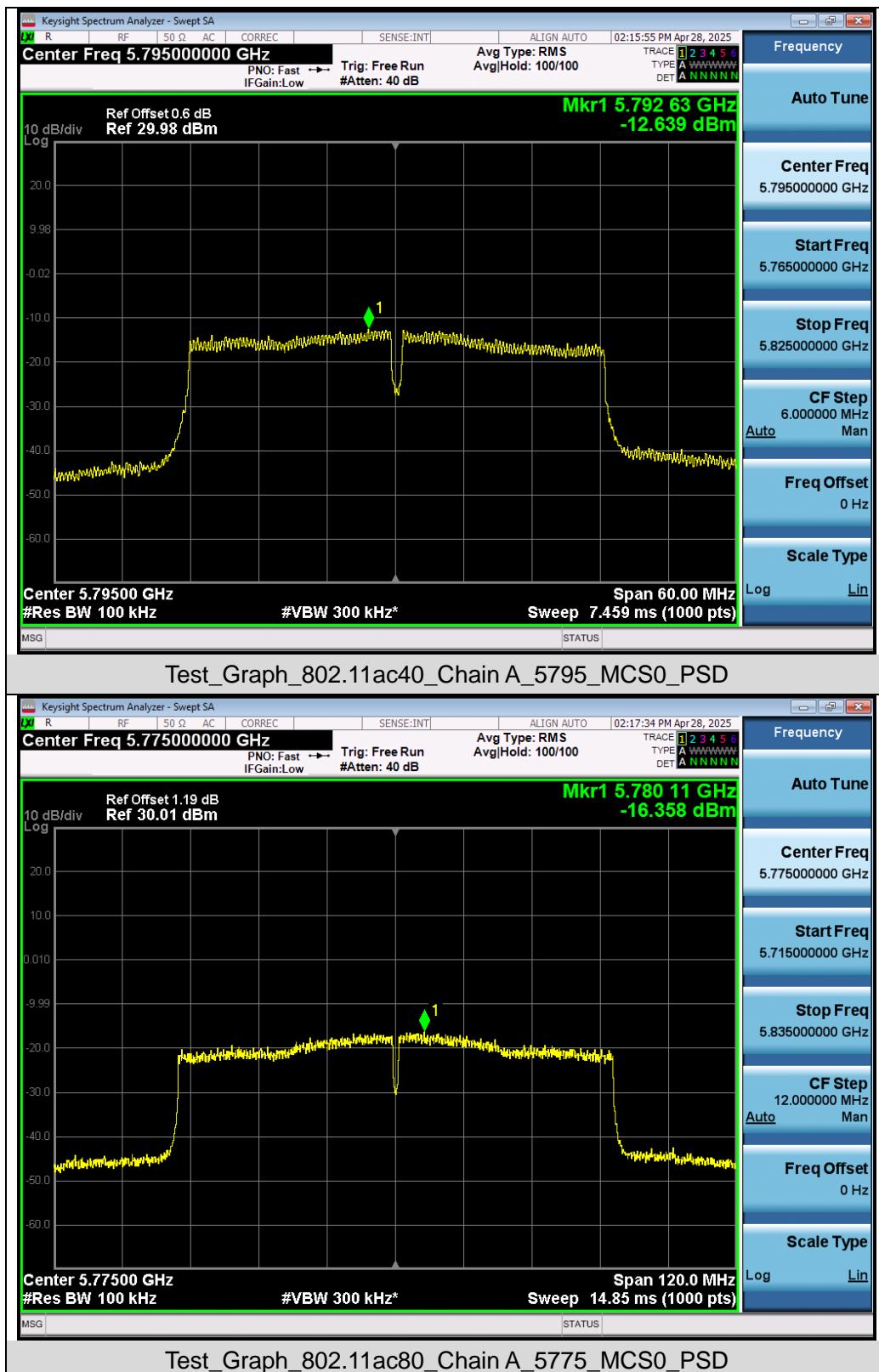


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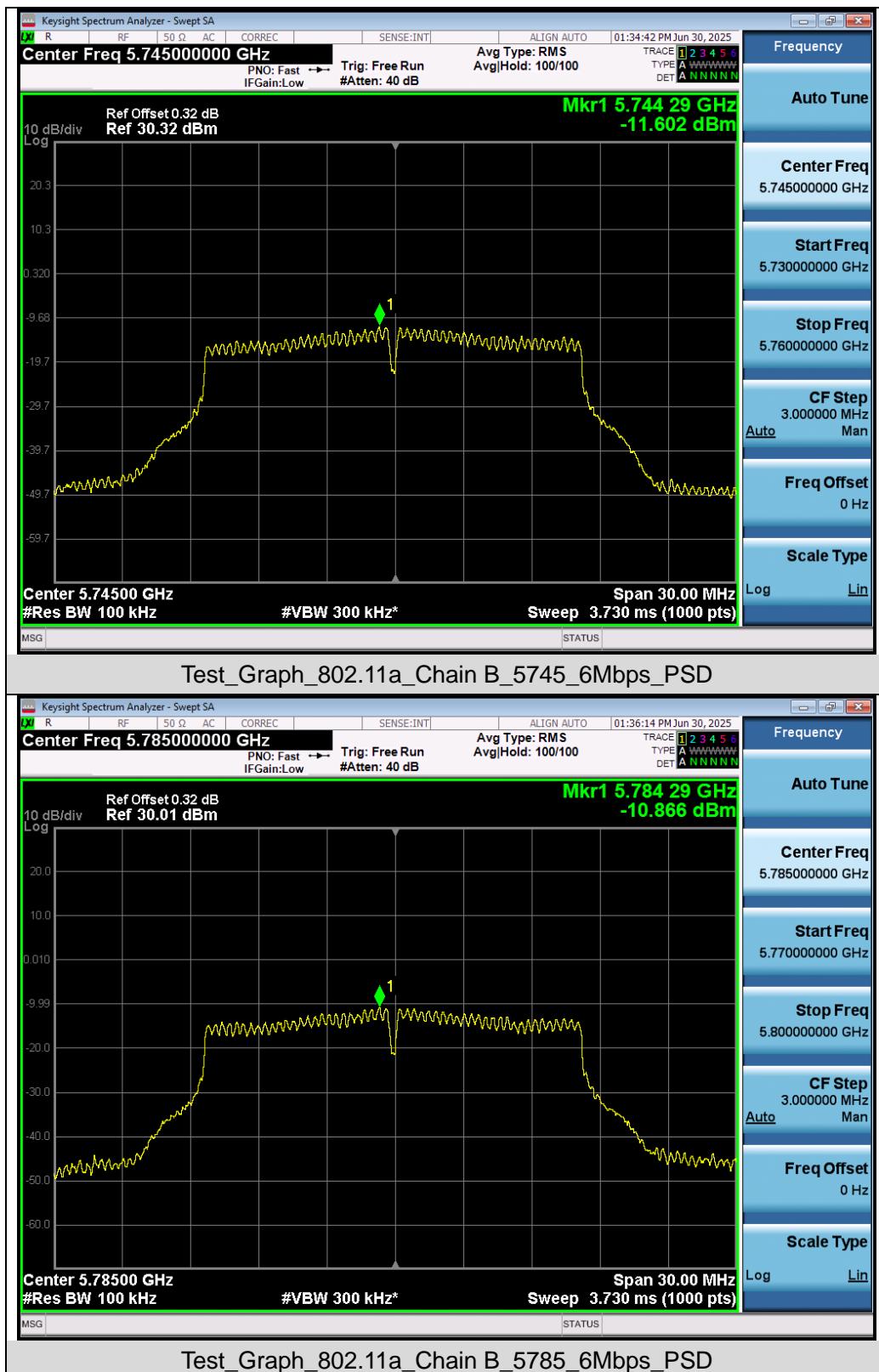


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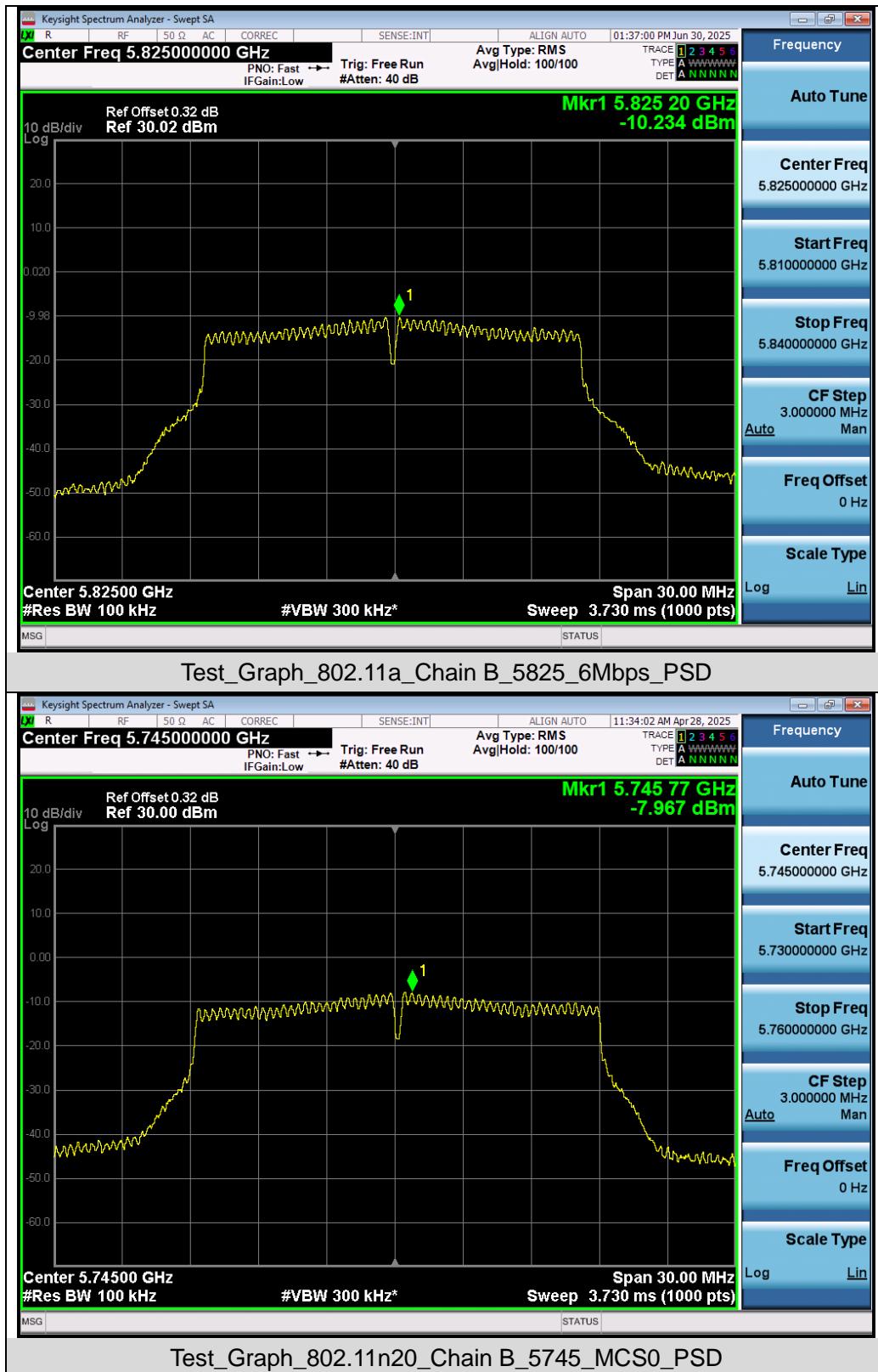


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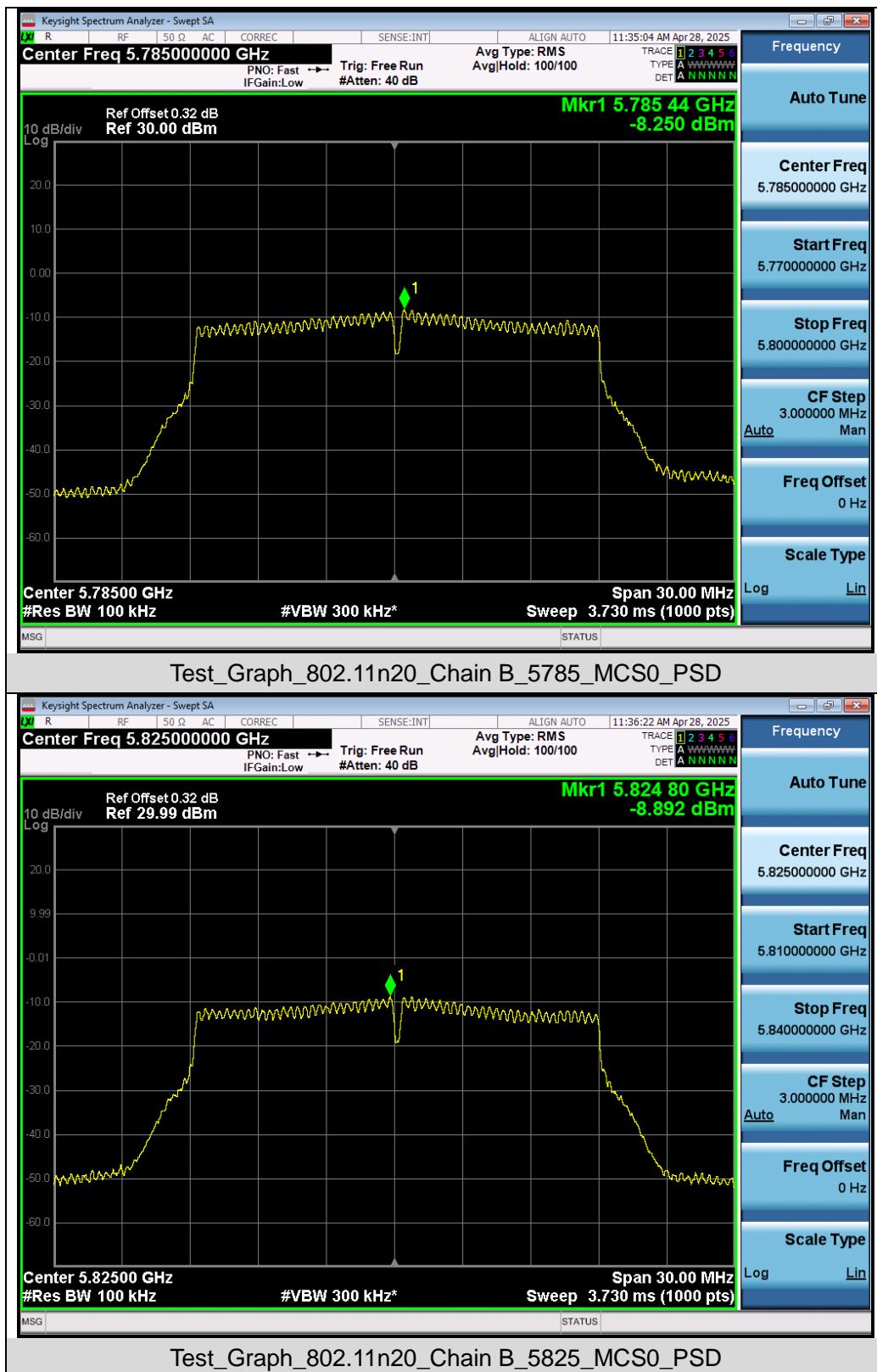


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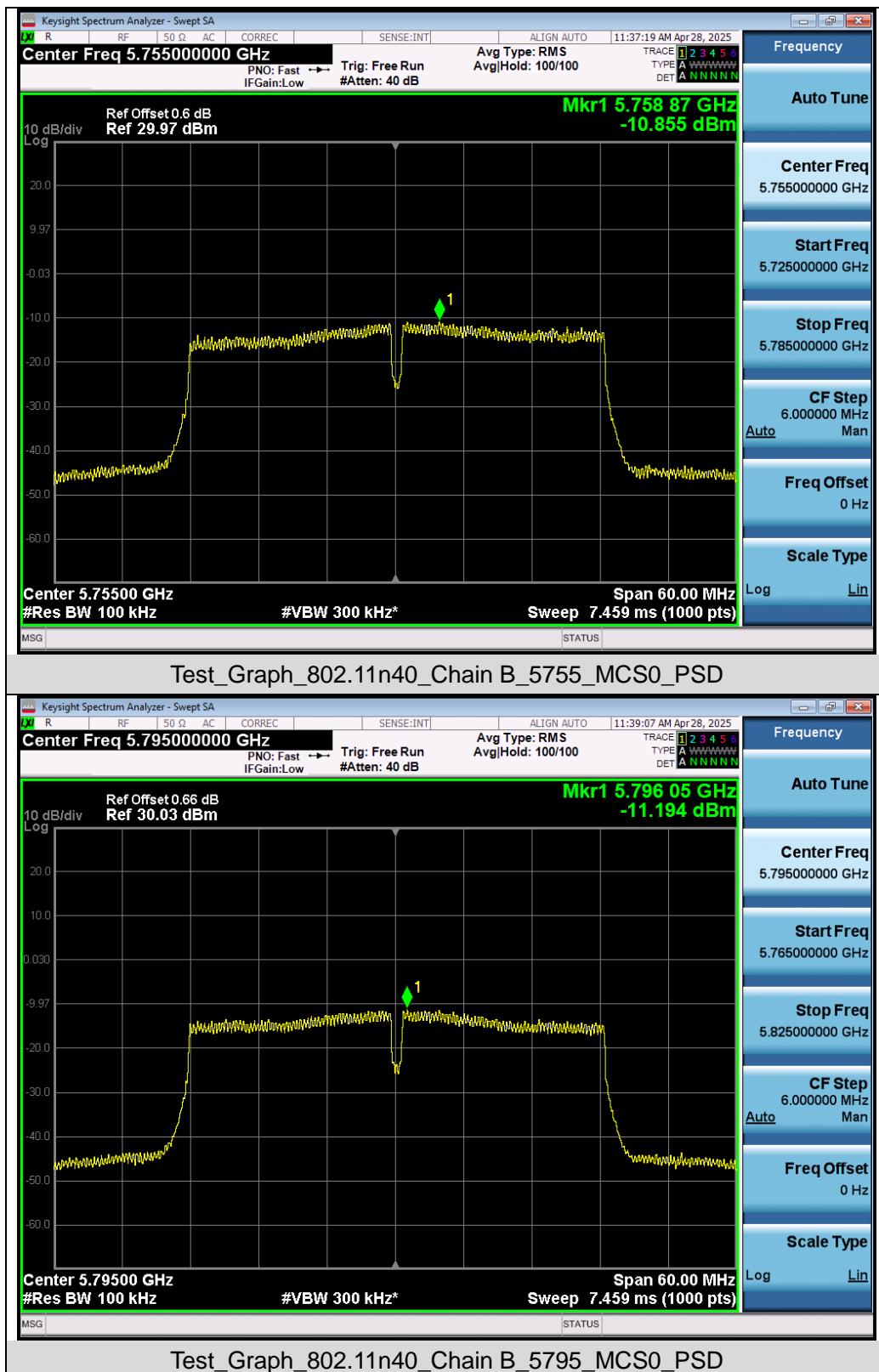


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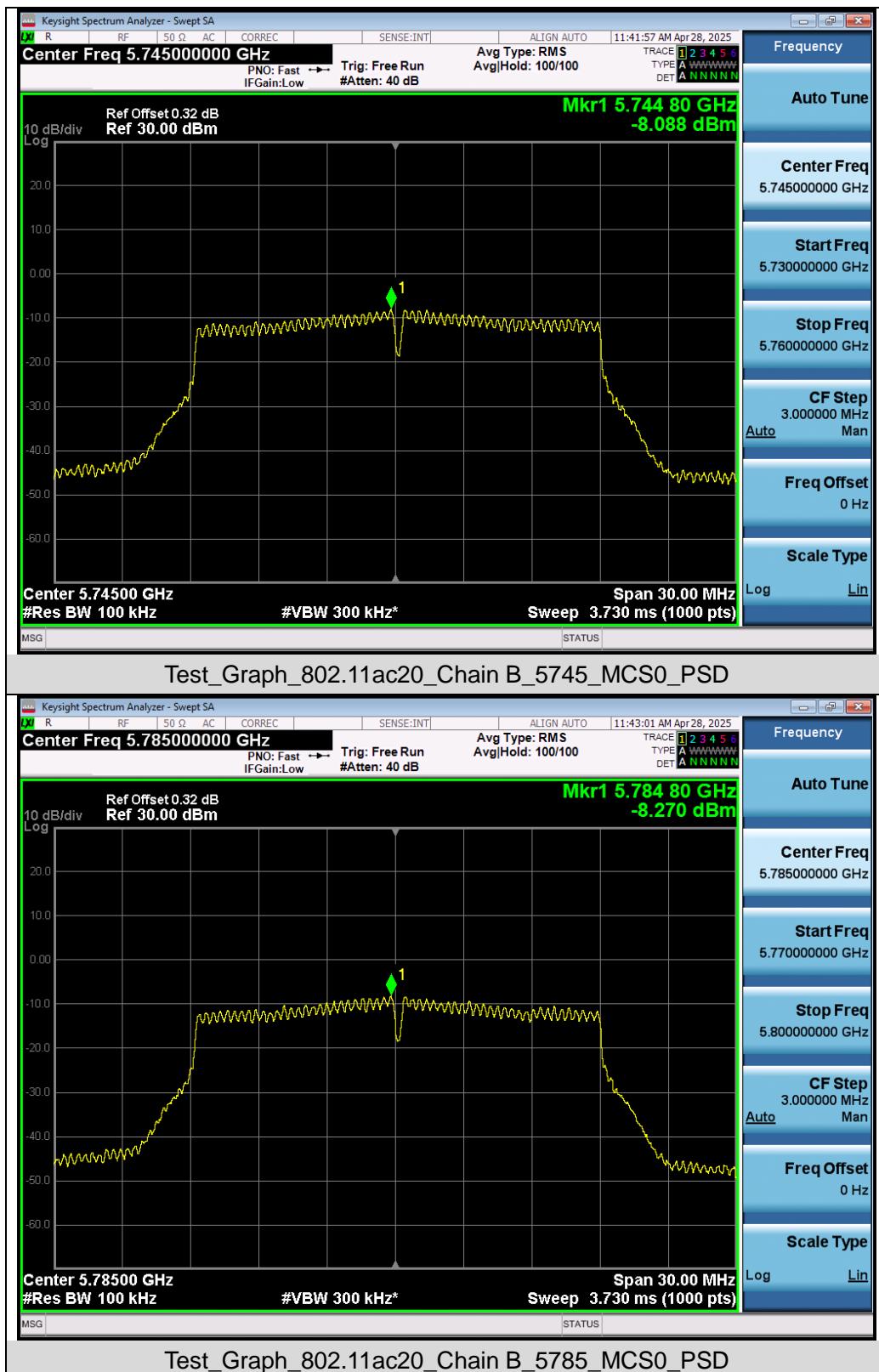


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