

RF Test Data for RLAN (Conducted Measurement)

Product Name: IP Phone

Trade Mark: 

Test Model: H601W

FCC ID: 2APPZ-H601W

Environmental Conditions

Temperature:	20.9℃
Relative Humidity:	41%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A1: Emission Bandwidth and Occupied Bandwidth

Test Result

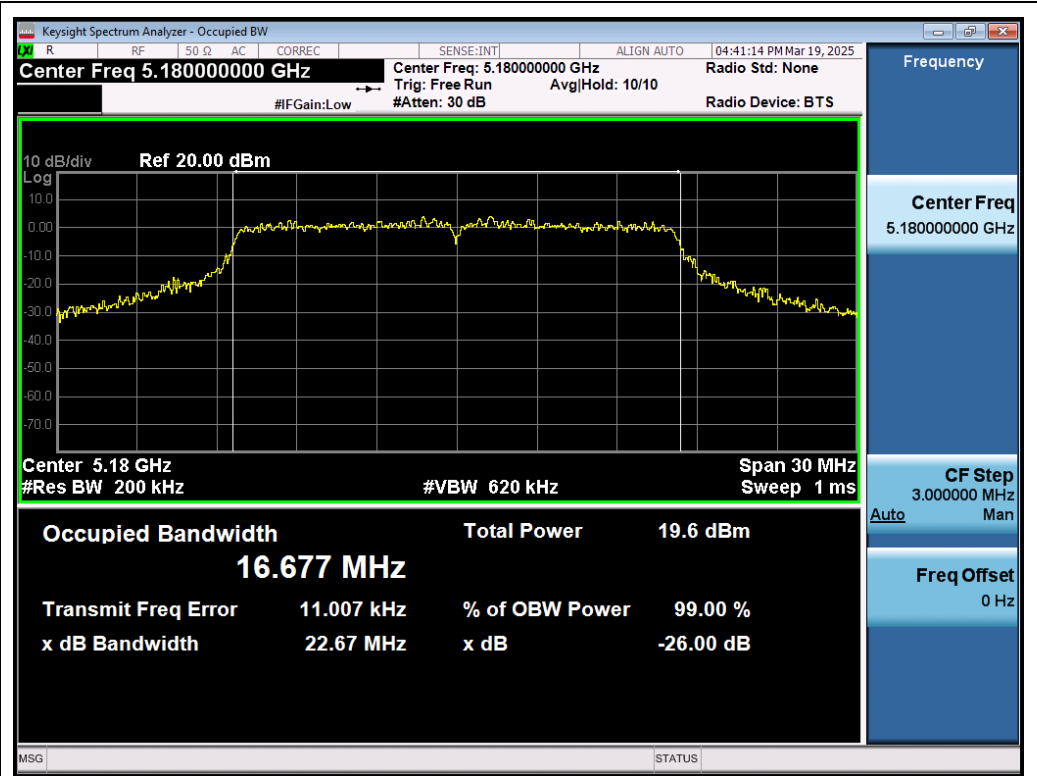
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5180	16.677	22.674	N/A	Pass
	5200	16.614	23.267	N/A	Pass
	5240	16.629	23.748	N/A	Pass
802.11n20	5180	17.809	25.131	N/A	Pass
	5200	17.840	23.306	N/A	Pass
	5240	17.928	25.352	N/A	Pass
802.11n40	5190	36.358	44.503	N/A	Pass
	5230	36.375	46.094	N/A	Pass
802.11ac20	5180	17.823	24.739	N/A	Pass
	5200	17.912	24.940	N/A	Pass
	5240	17.847	25.038	N/A	Pass
802.11ac40	5190	36.371	44.672	N/A	Pass
	5230	36.418	45.102	N/A	Pass
802.11ac80	5210	75.961	89.326	N/A	Pass
802.11ax20	5180	19.083	25.365	N/A	Pass
	5200	19.047	24.394	N/A	Pass
	5240	19.081	24.347	N/A	Pass
802.11ax40	5190	37.921	45.283	N/A	Pass
	5230	37.883	44.714	N/A	Pass
802.11ax80	5210	77.302	85.884	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5260	16.632	22.538	N/A	Pass
	5300	16.650	23.546	N/A	Pass
	5320	16.654	24.100	N/A	Pass
802.11n20	5260	17.937	24.391	N/A	Pass
	5300	17.964	25.473	N/A	Pass
	5320	17.942	24.823	N/A	Pass
802.11n40	5270	36.464	45.591	N/A	Pass
	5310	36.421	44.864	N/A	Pass
802.11ac20	5260	17.924	24.573	N/A	Pass
	5300	17.879	24.951	N/A	Pass
	5320	17.914	25.199	N/A	Pass
802.11ac40	5270	36.400	44.485	N/A	Pass
	5310	36.446	43.916	N/A	Pass
802.11ac80	5290	75.802	86.483	N/A	Pass
802.11ax20	5260	19.055	22.804	N/A	Pass
	5300	19.053	23.612	N/A	Pass
	5320	19.039	23.954	N/A	Pass
802.11ax40	5270	37.924	44.174	N/A	Pass
	5310	37.893	45.068	N/A	Pass
802.11ax80	5290	77.340	86.020	N/A	Pass

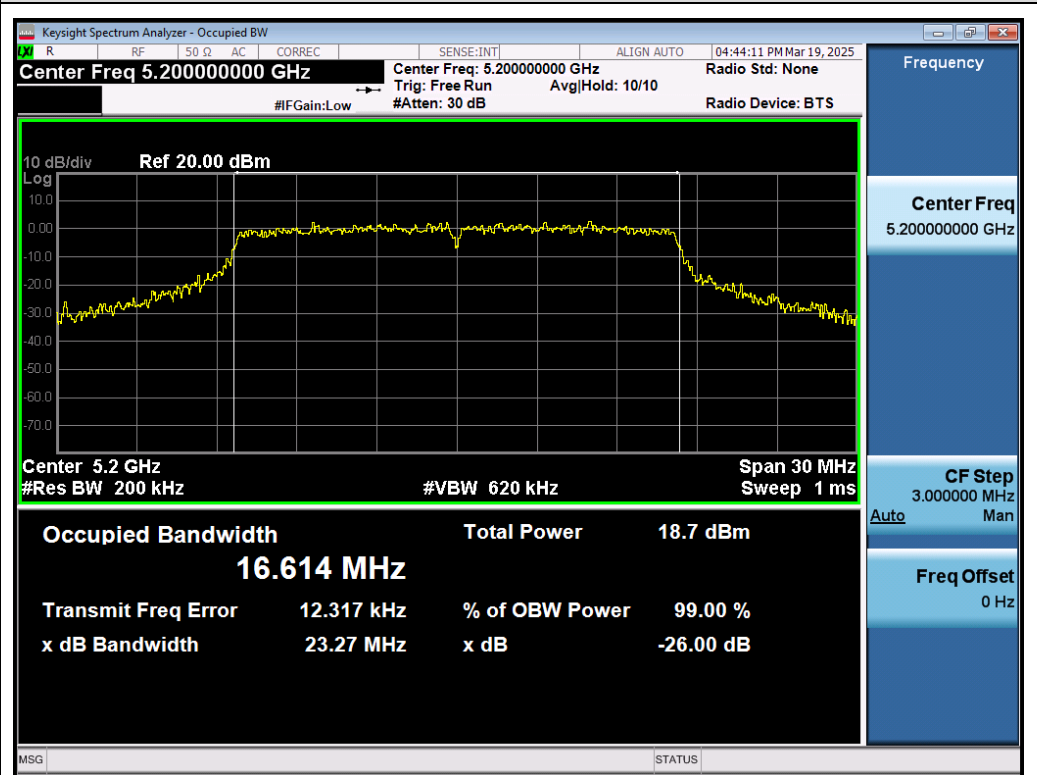
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5500	16.782	23.691	N/A	Pass
	5580	16.734	23.344	N/A	Pass
	5700	16.750	24.036	N/A	Pass
802.11n20	5500	17.974	24.349	N/A	Pass
	5580	17.924	23.880	N/A	Pass
	5700	17.924	24.902	N/A	Pass
802.11n40	5510	36.481	45.880	N/A	Pass
	5550	36.494	45.342	N/A	Pass
	5670	36.496	44.865	N/A	Pass
802.11ac20	5500	17.946	24.962	N/A	Pass
	5580	17.918	24.509	N/A	Pass
	5700	17.995	24.757	N/A	Pass
802.11ac40	5510	36.560	45.397	N/A	Pass
	5590	36.482	45.565	N/A	Pass
	5670	36.544	45.377	N/A	Pass
802.11ac80	5530	76.020	86.722	N/A	Pass
	5610	76.007	88.877	N/A	Pass
802.11ax20	5500	19.051	25.018	N/A	Pass
	5600	19.078	23.640	N/A	Pass
	5700	19.188	25.340	N/A	Pass
802.11ax40	5510	37.970	45.099	N/A	Pass
	5590	37.996	44.332	N/A	Pass
	5670	38.071	46.428	N/A	Pass
802.11ac80	5530	77.626	86.573	N/A	Pass
	5610	77.654	86.372	N/A	Pass

Test Graphs

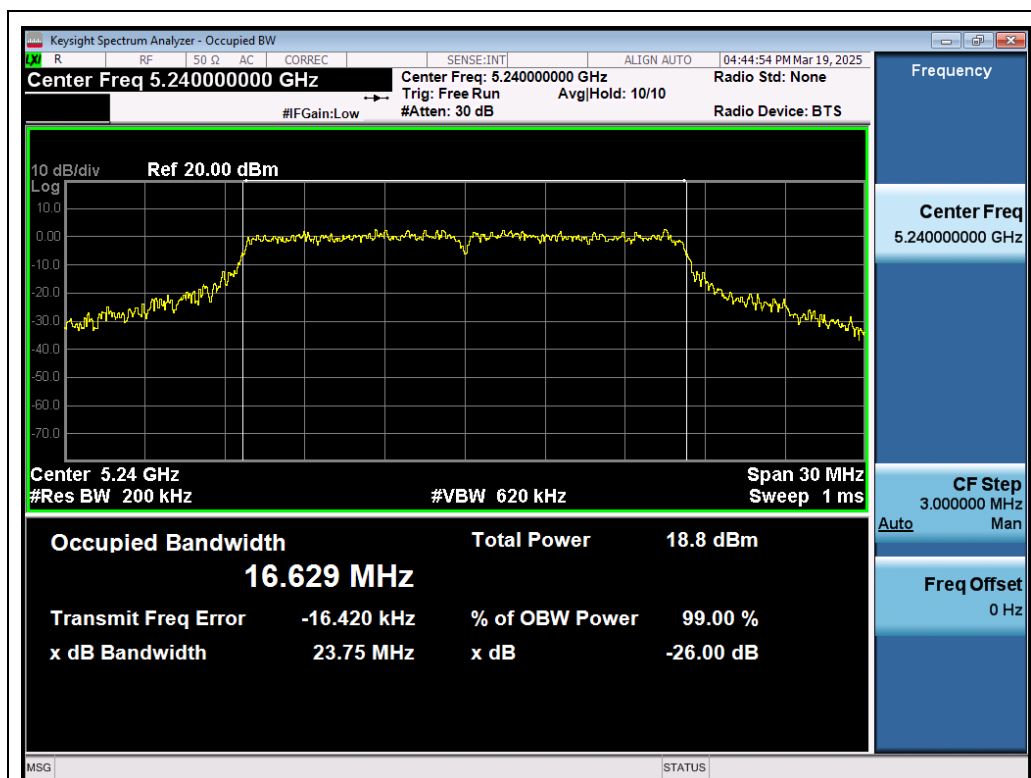
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



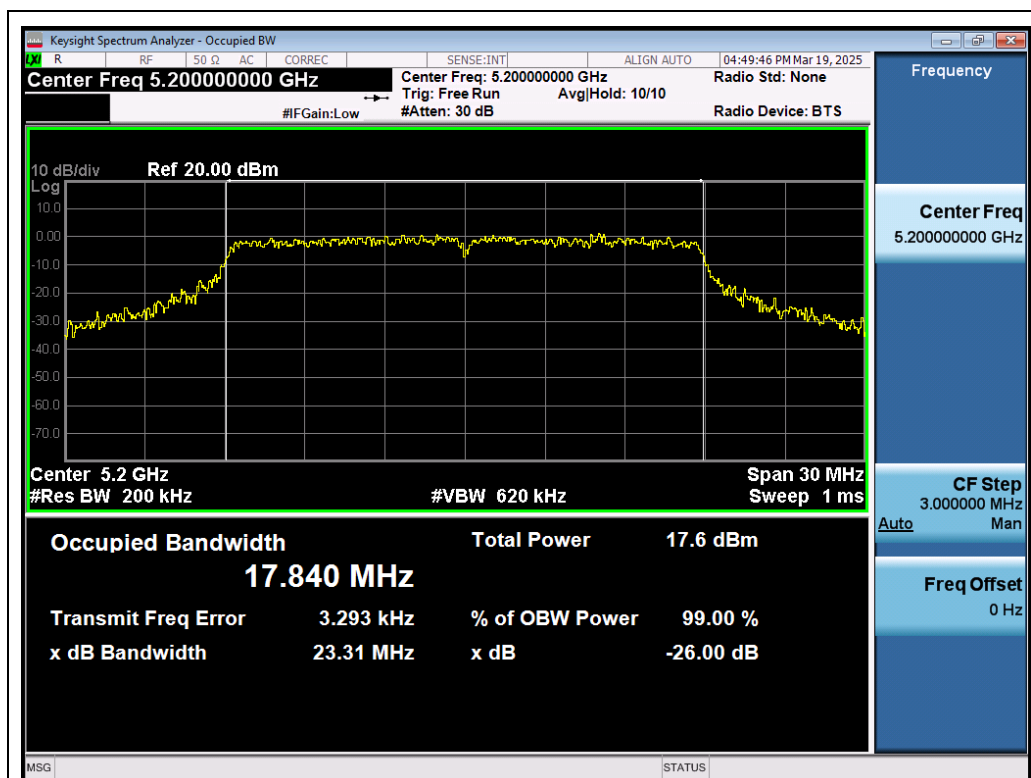
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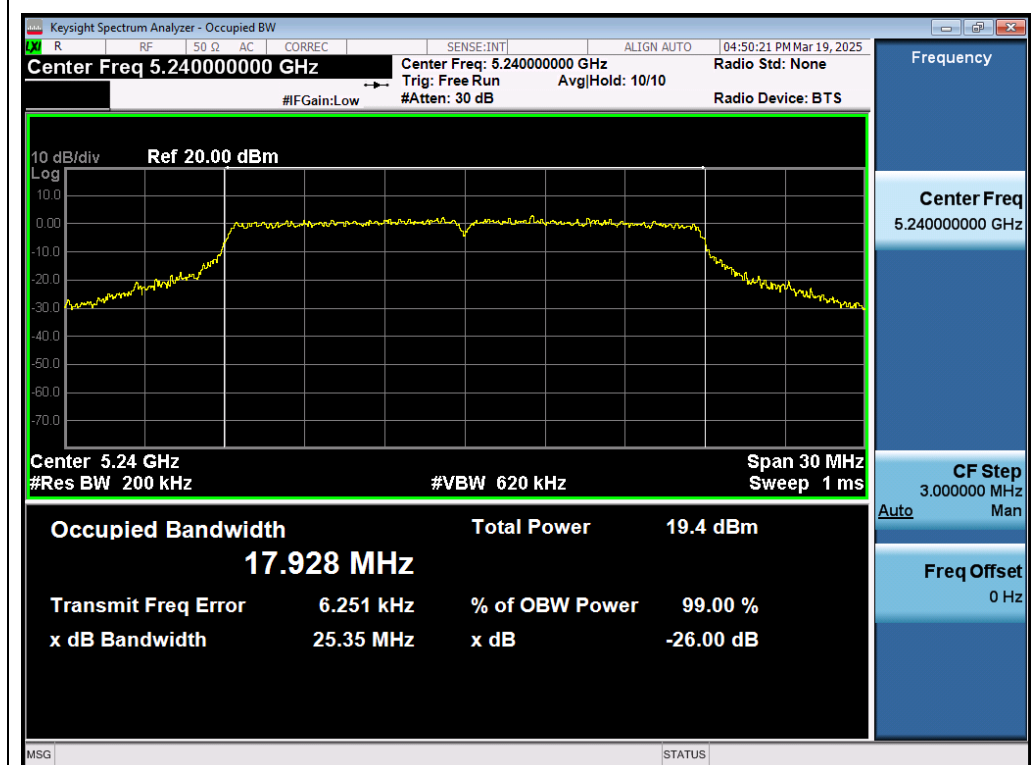
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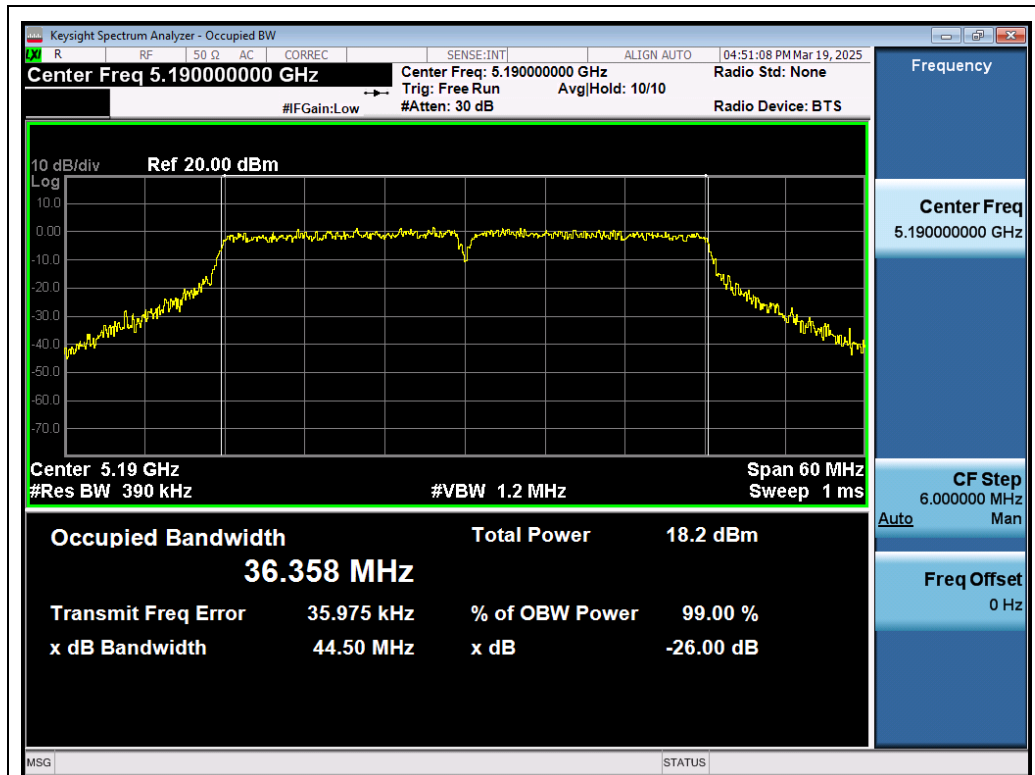
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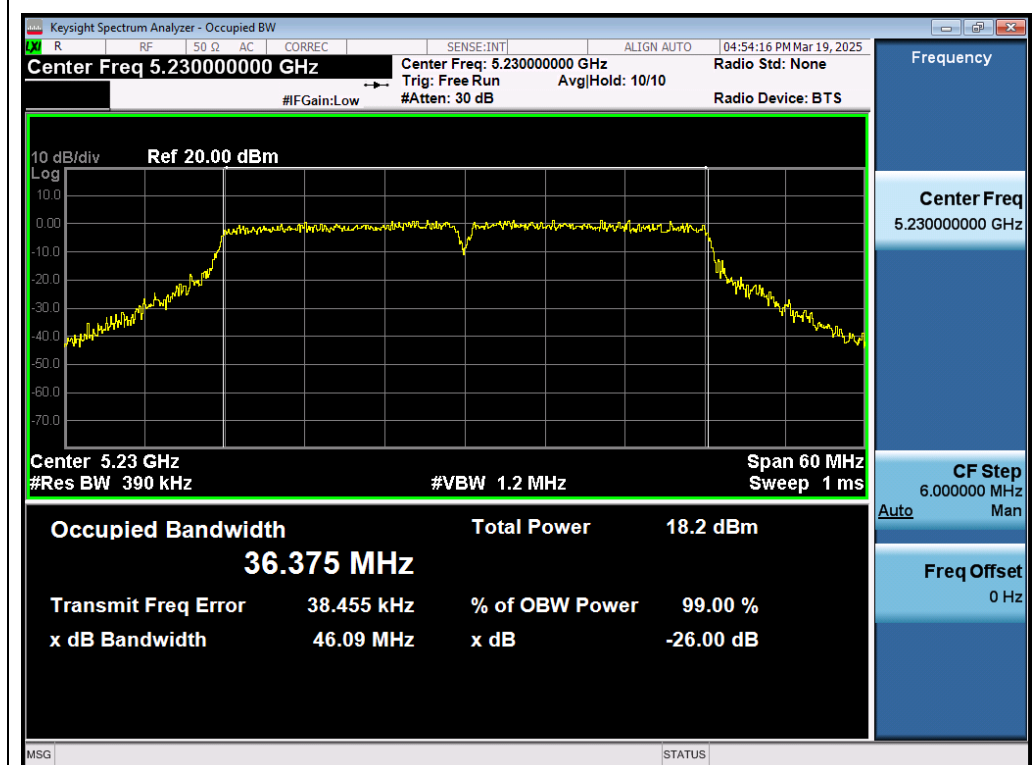
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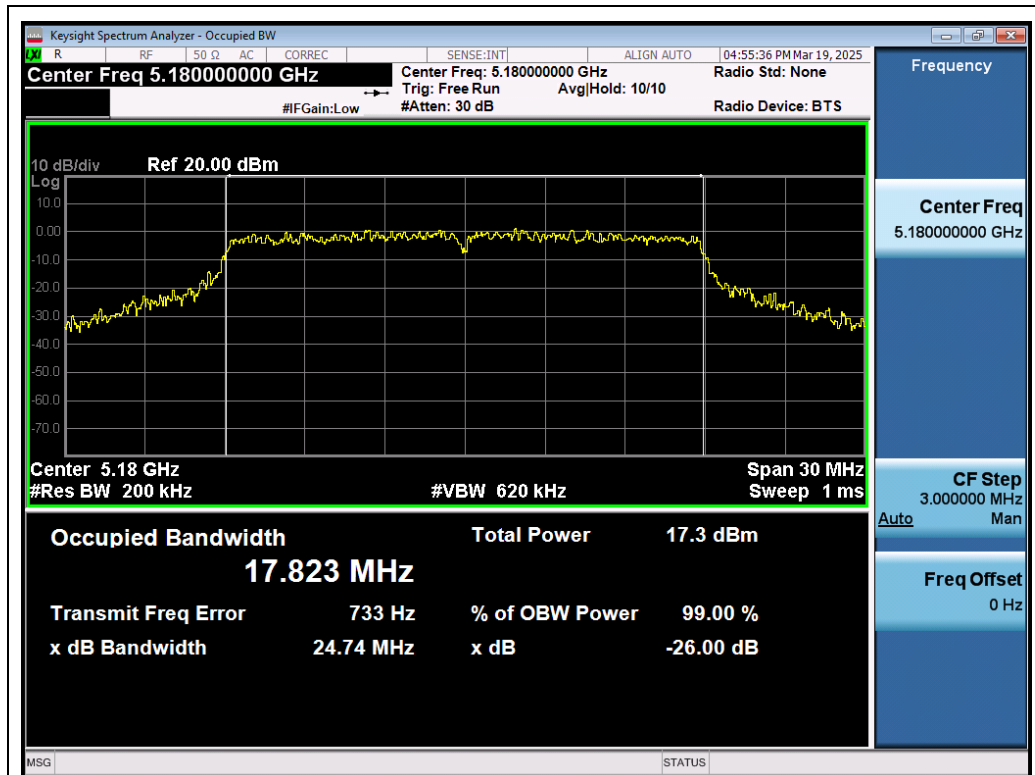
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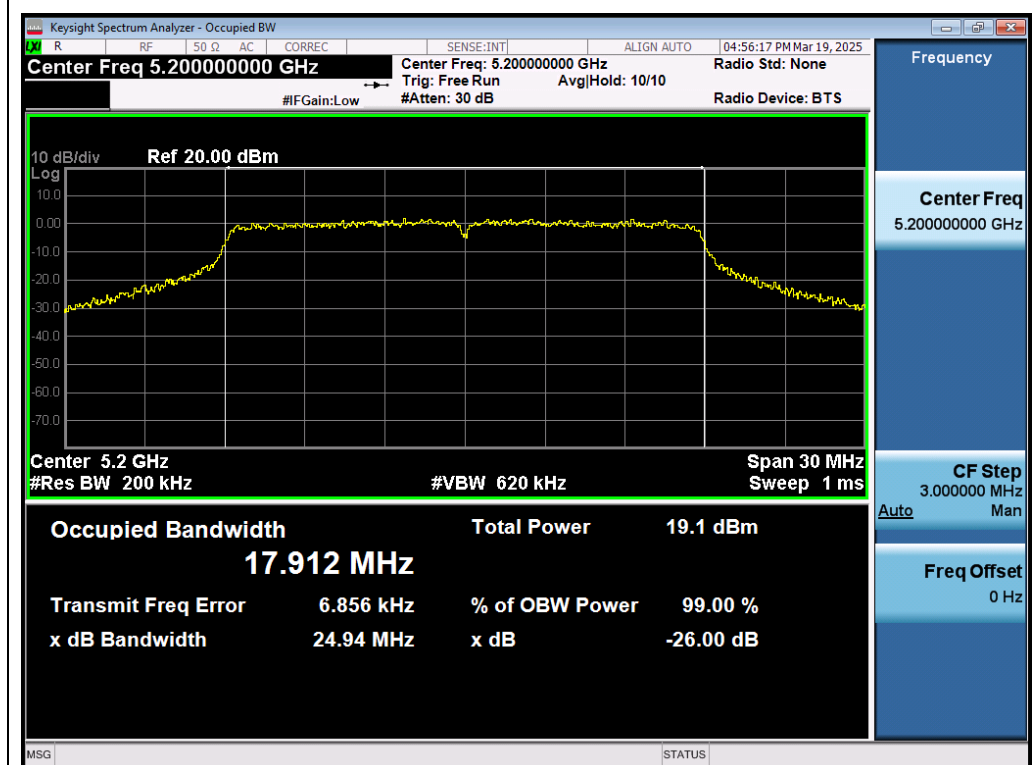
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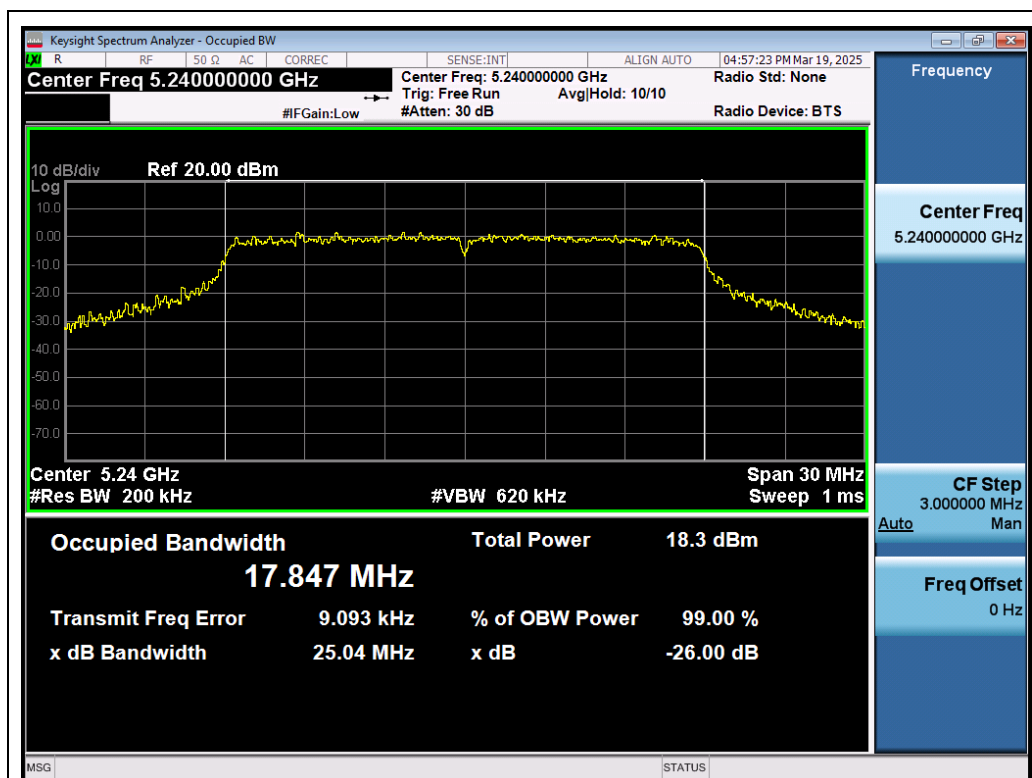
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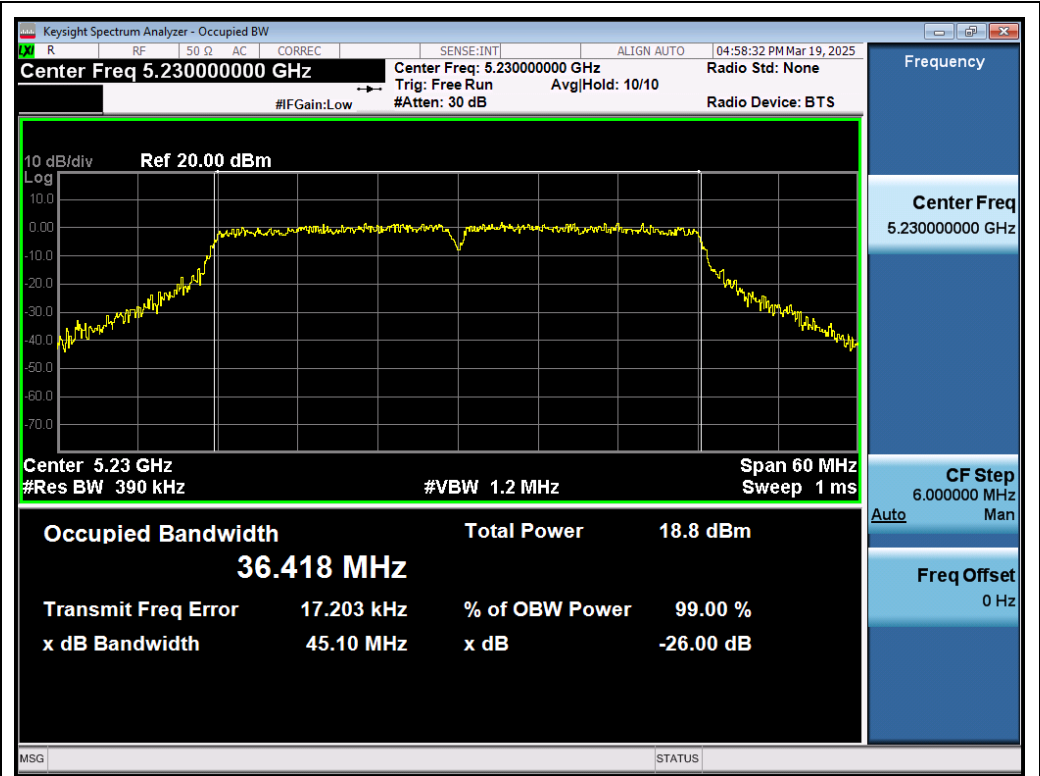
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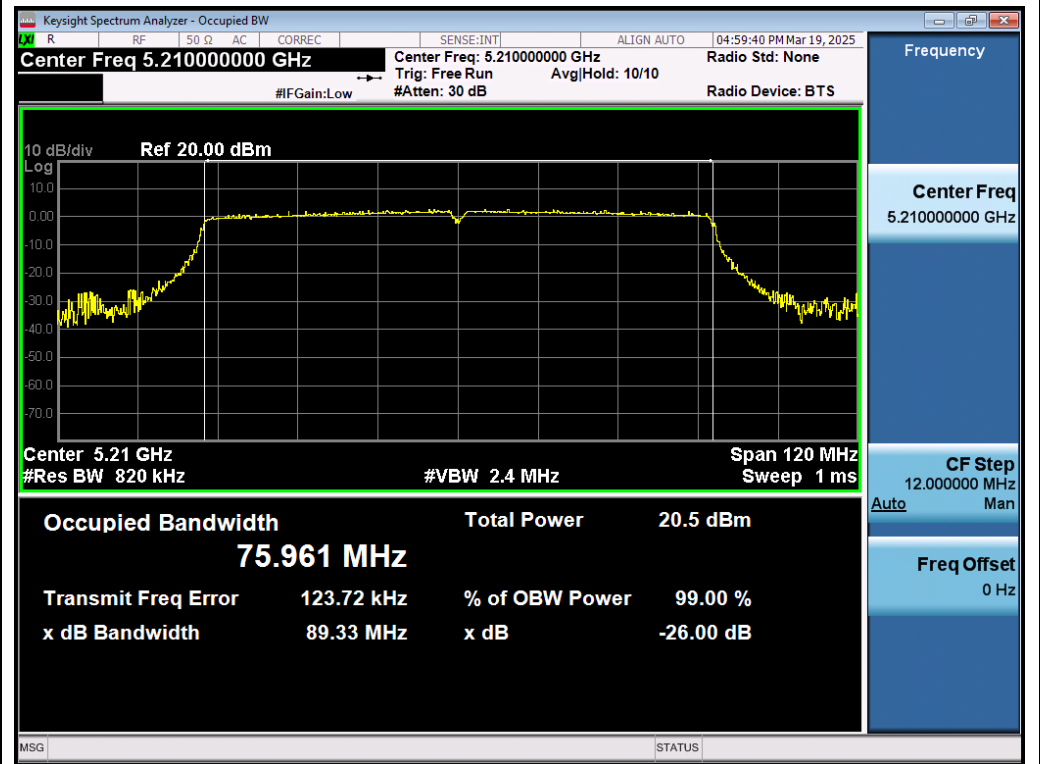
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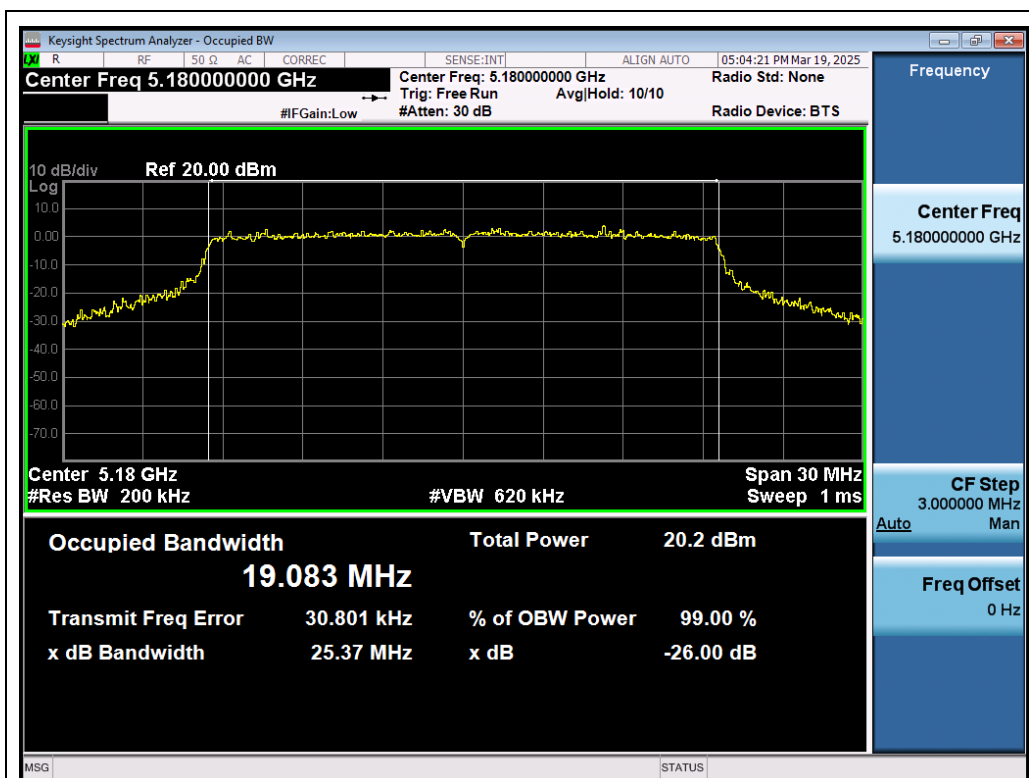
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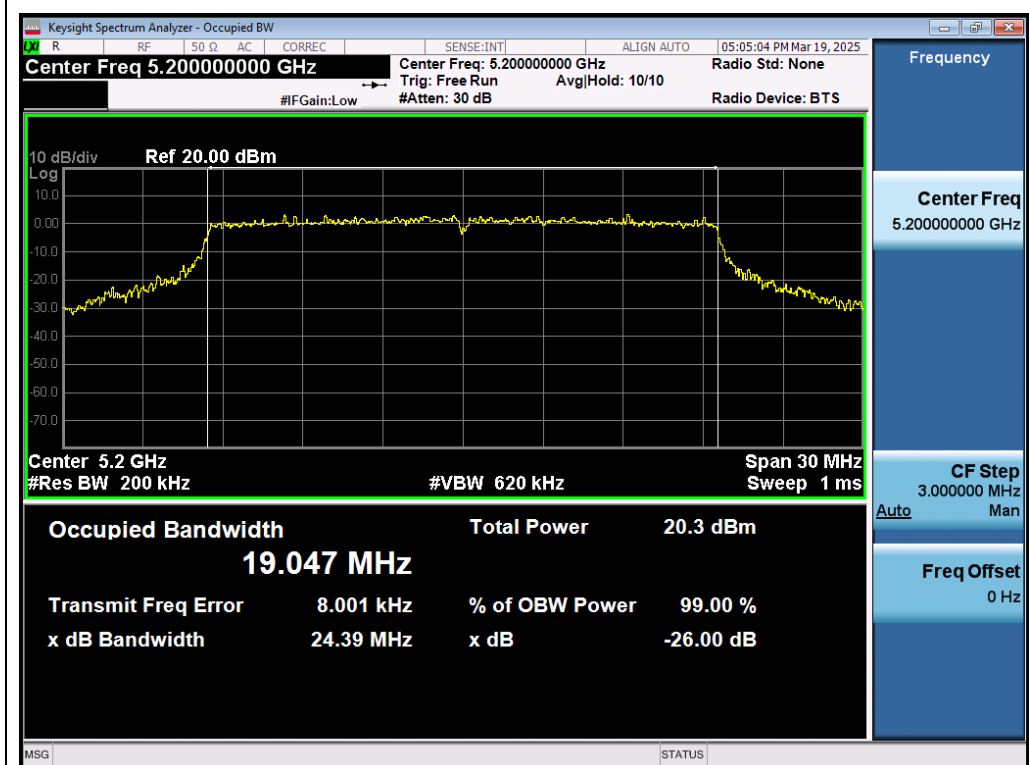
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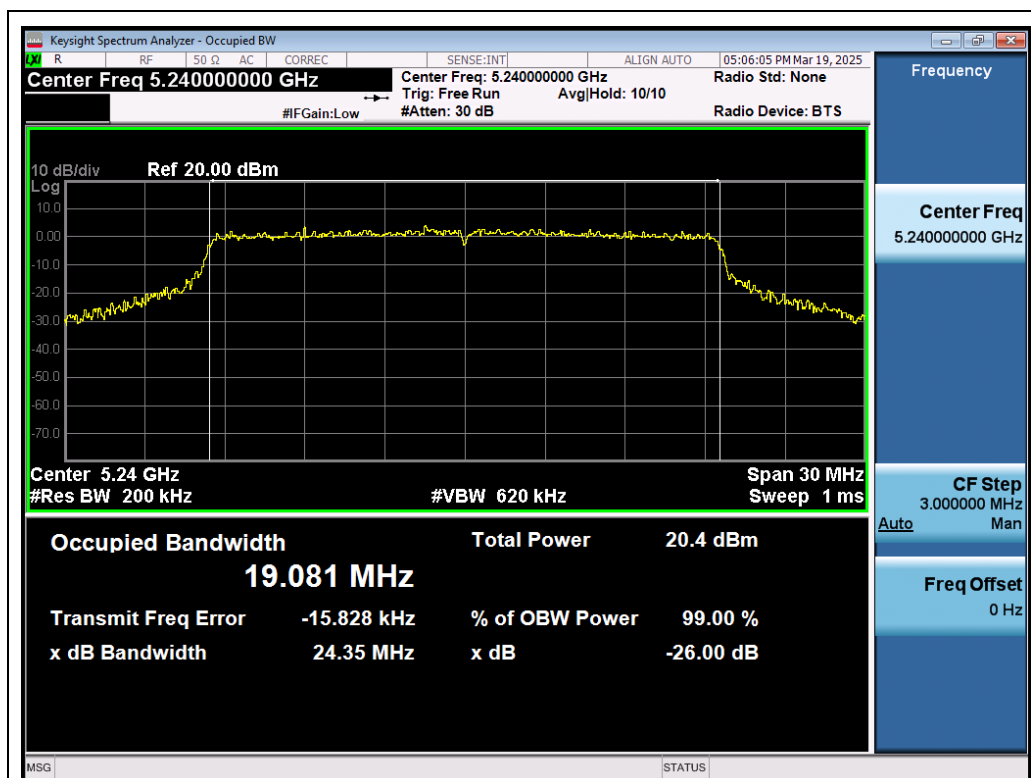
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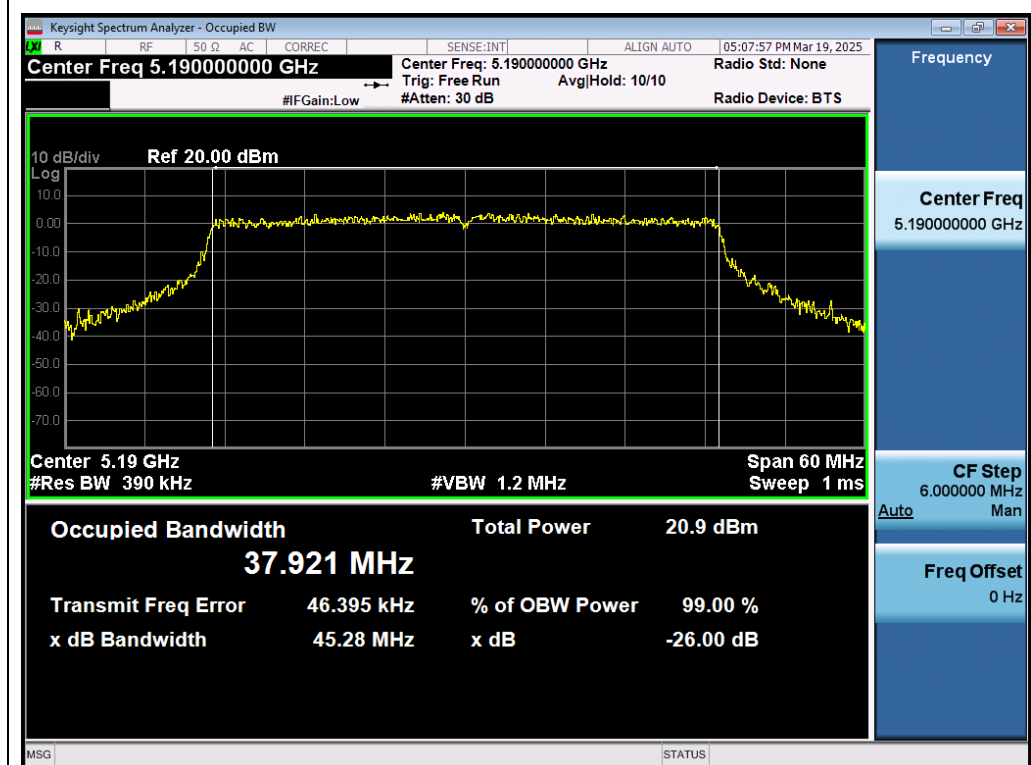
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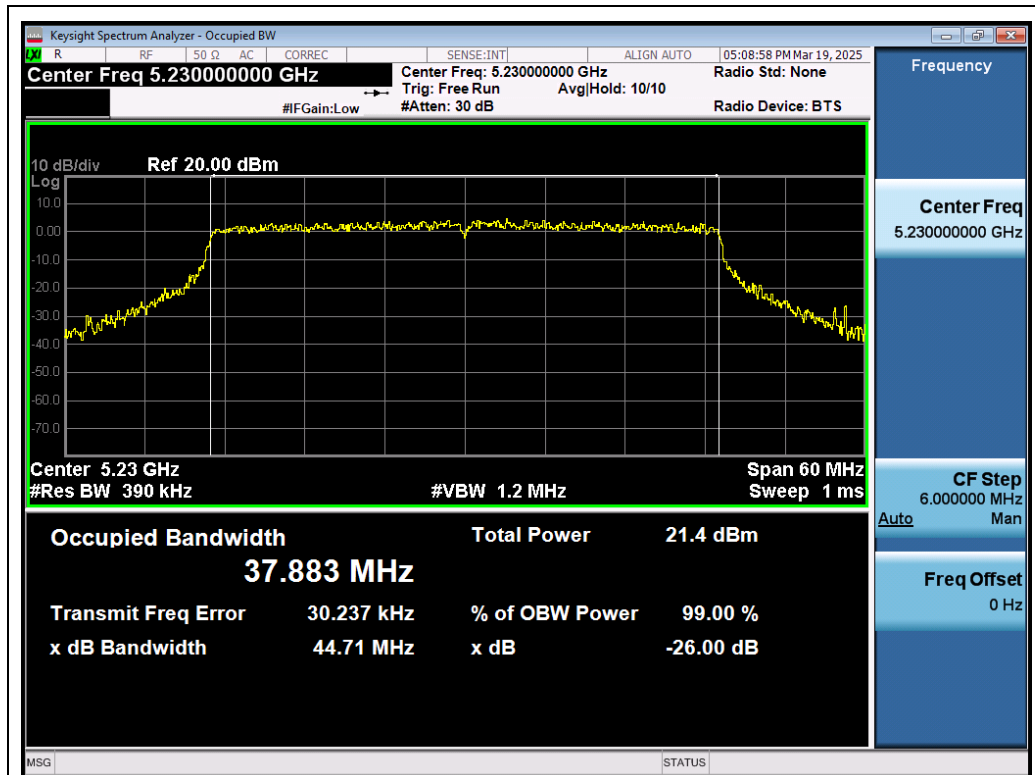
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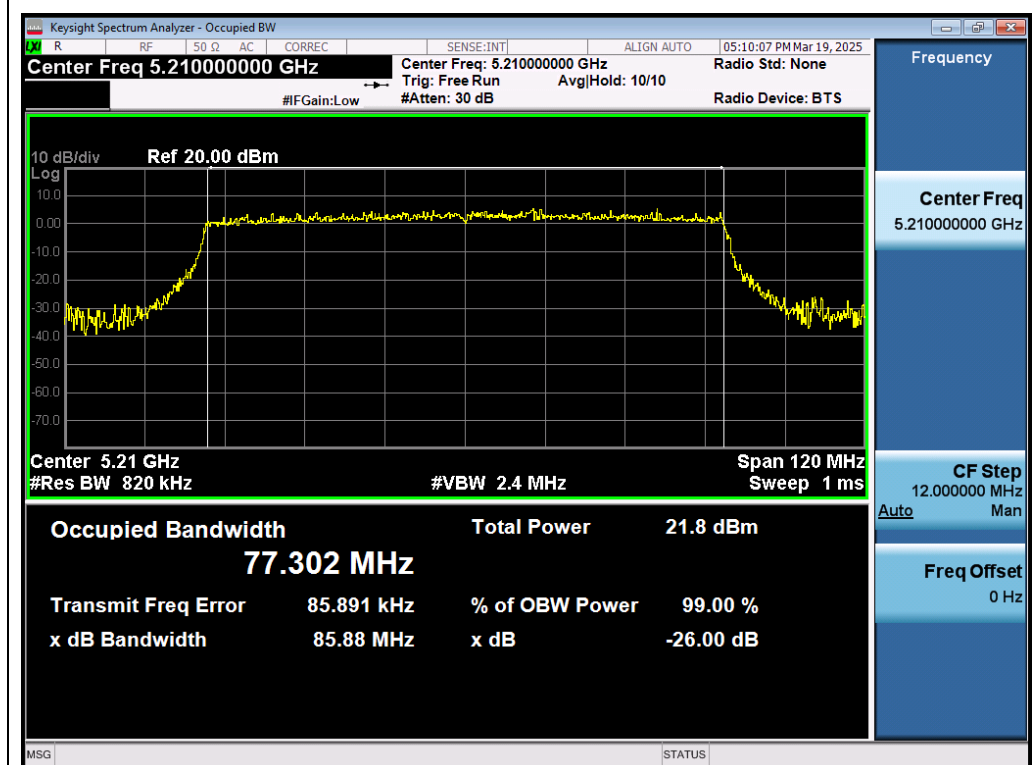
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Test_Graph_802.11ax40_ANT1_5190_MCS0_OBW

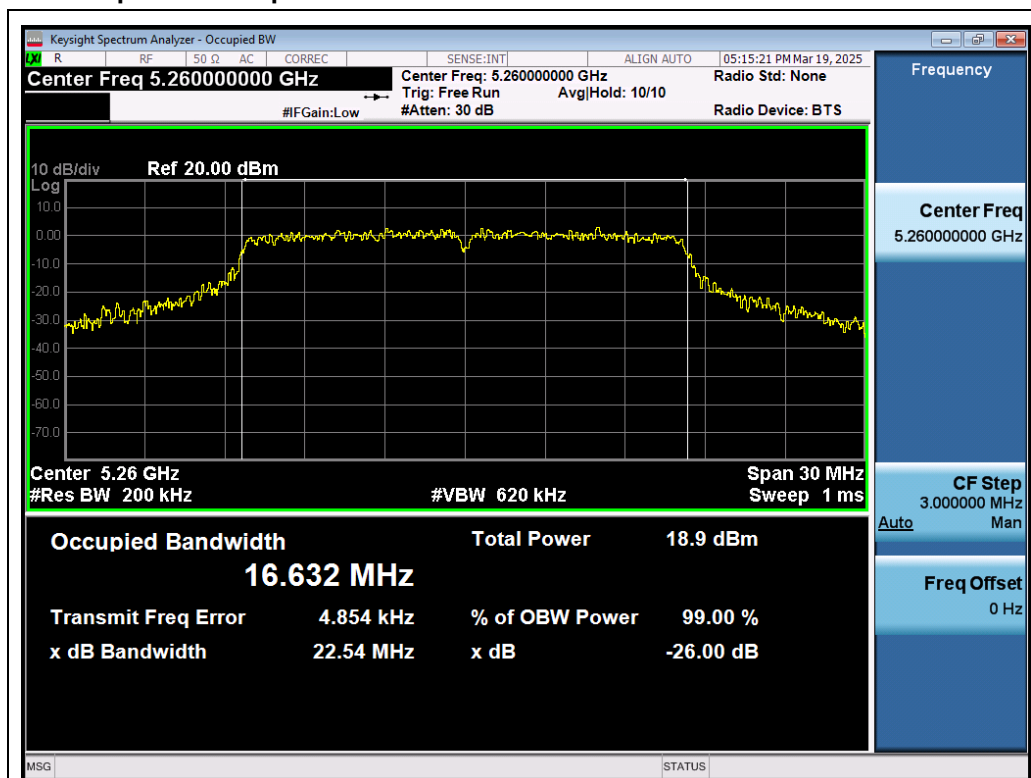


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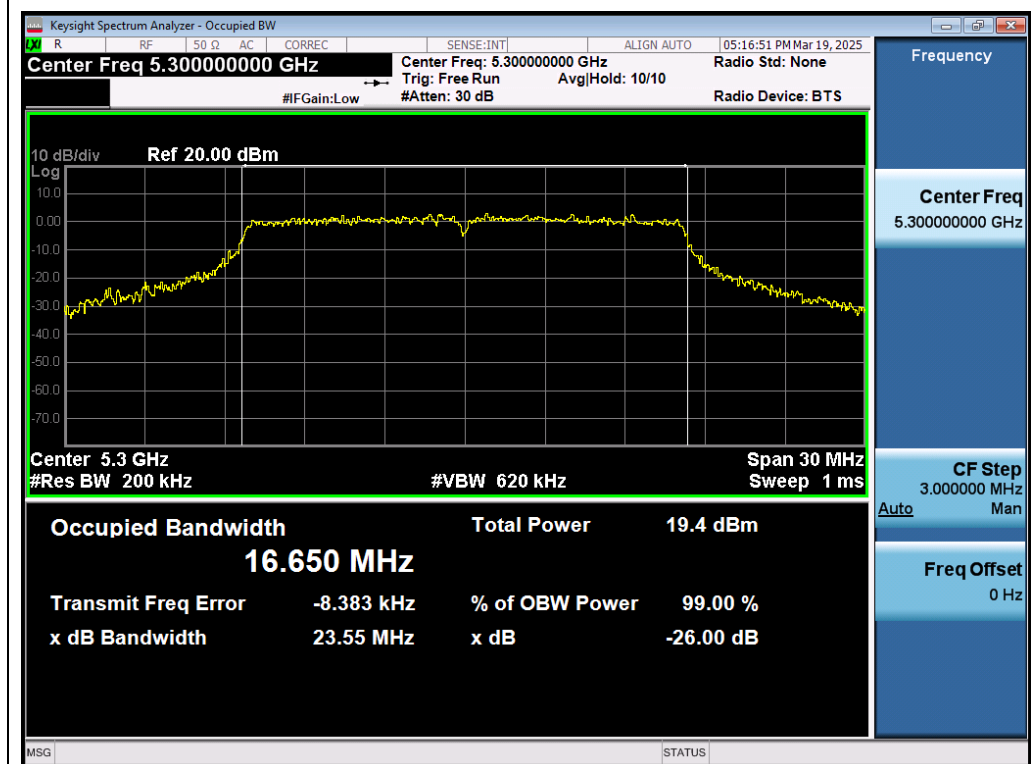


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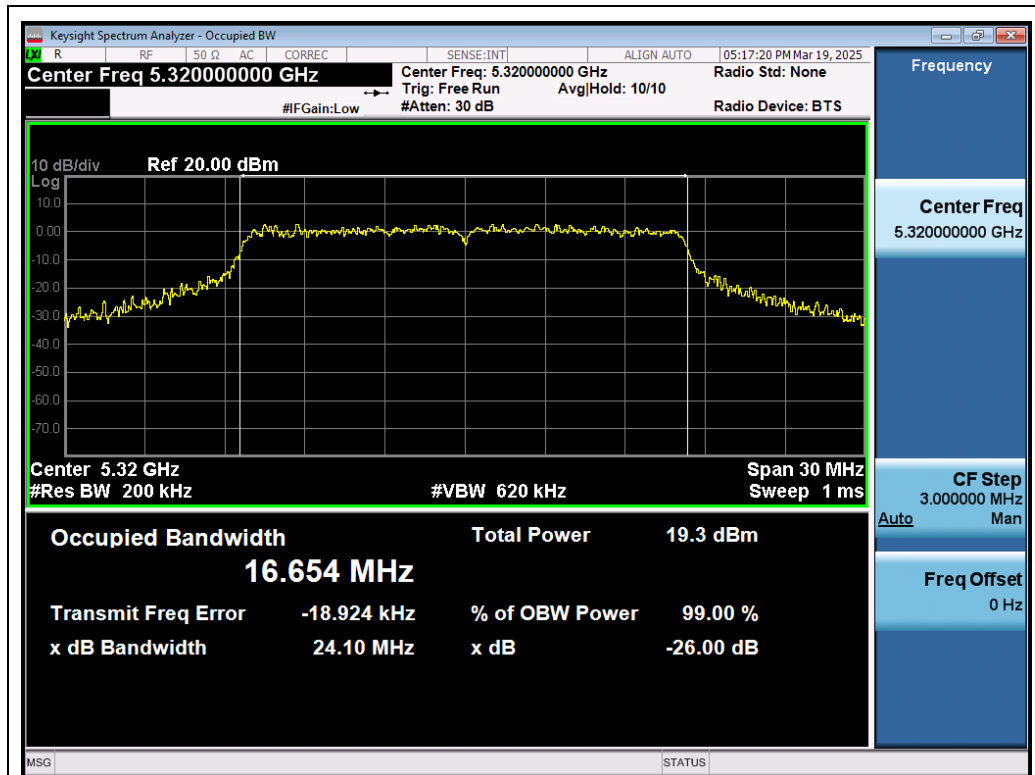
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



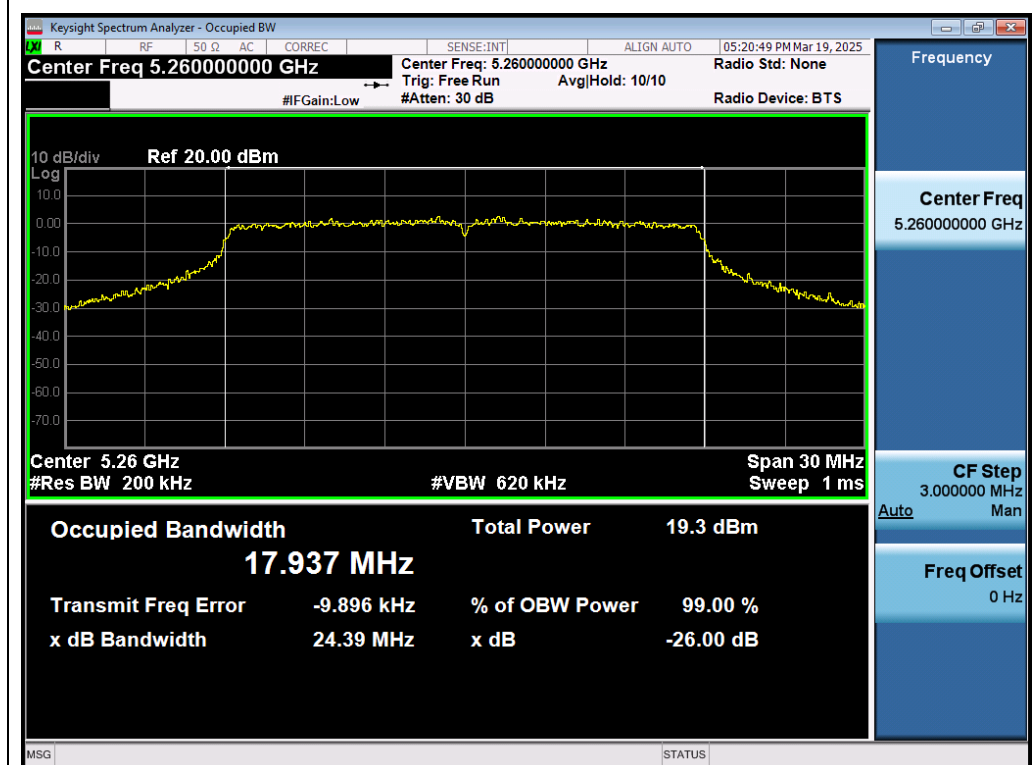
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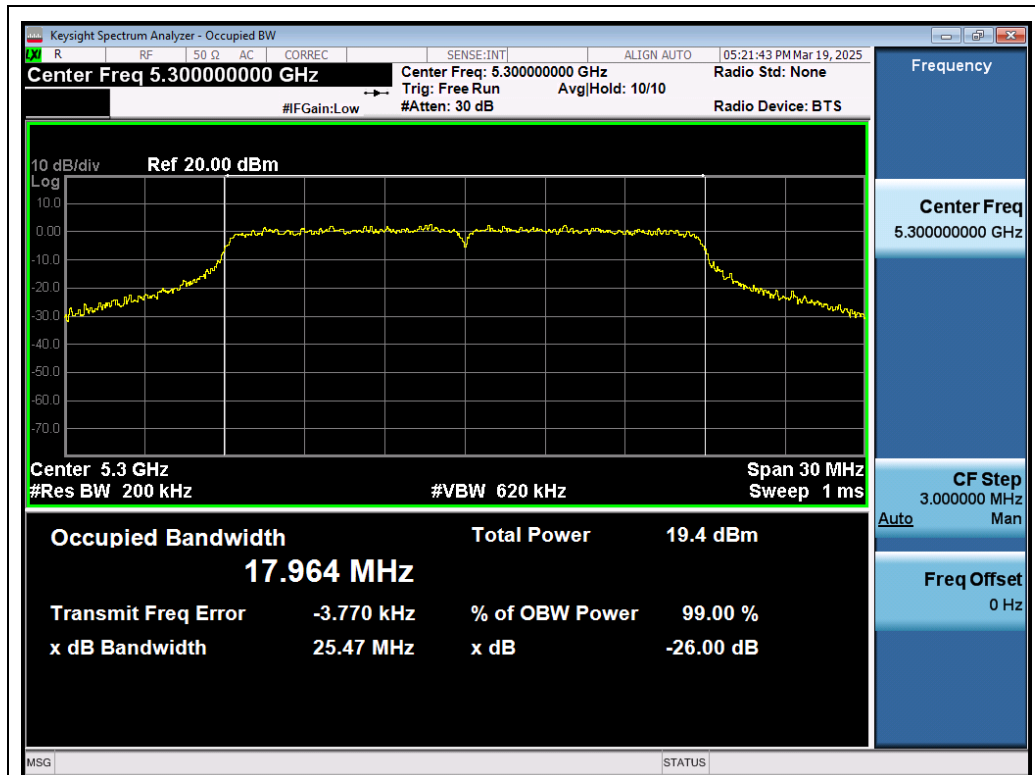
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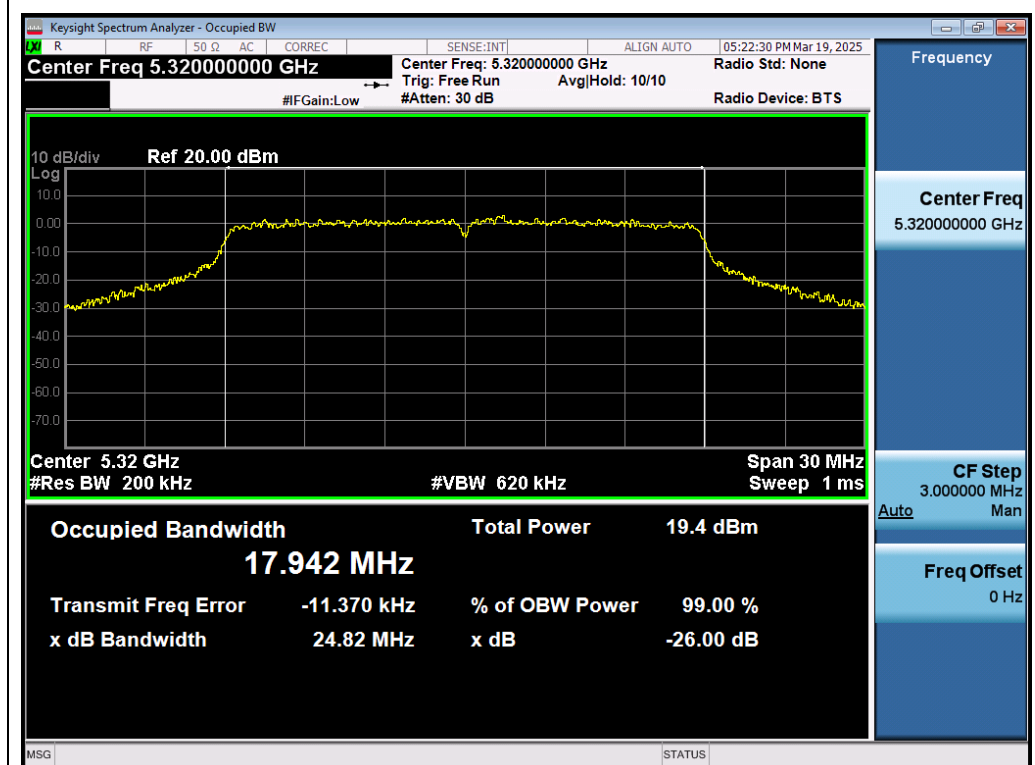
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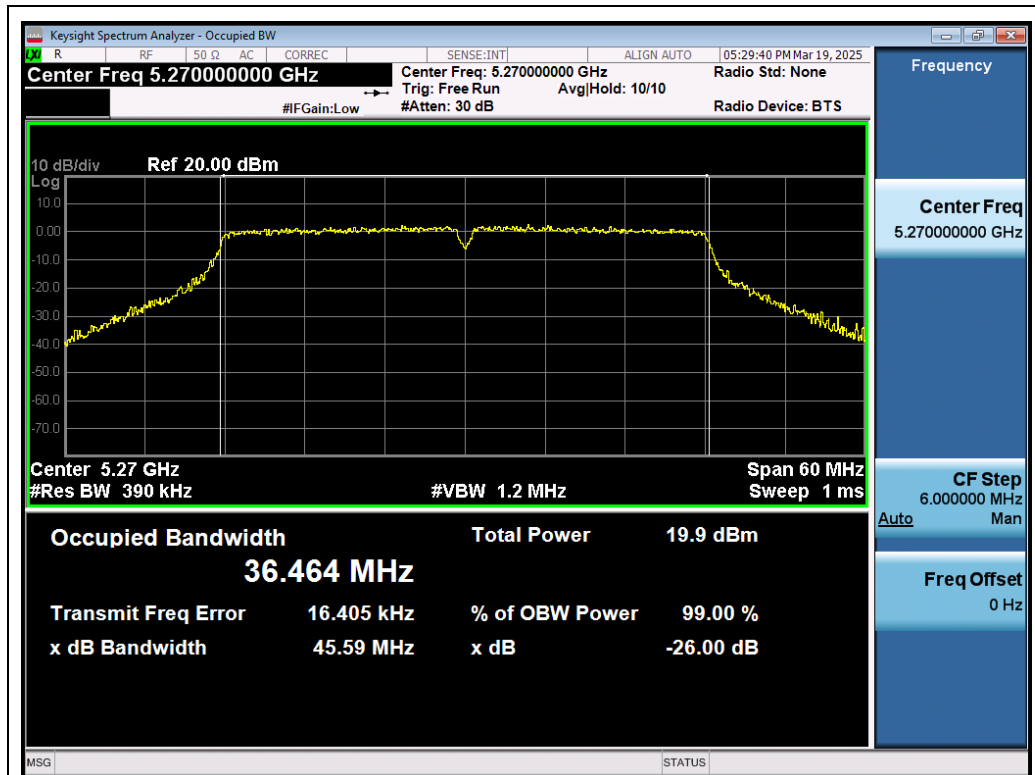
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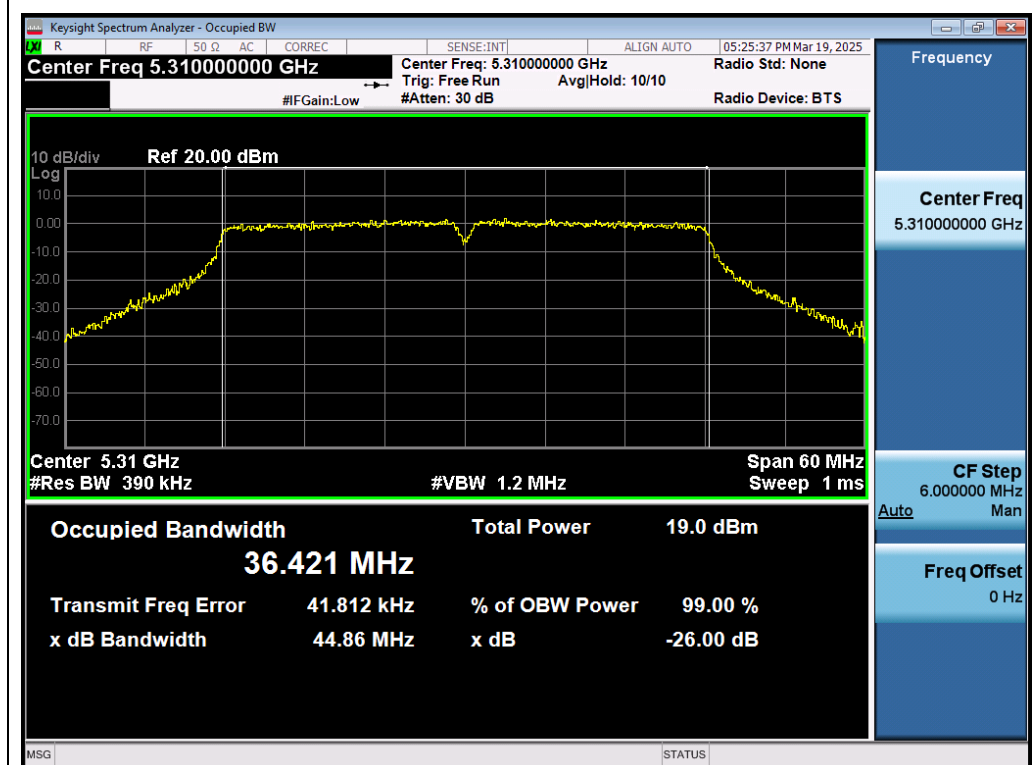
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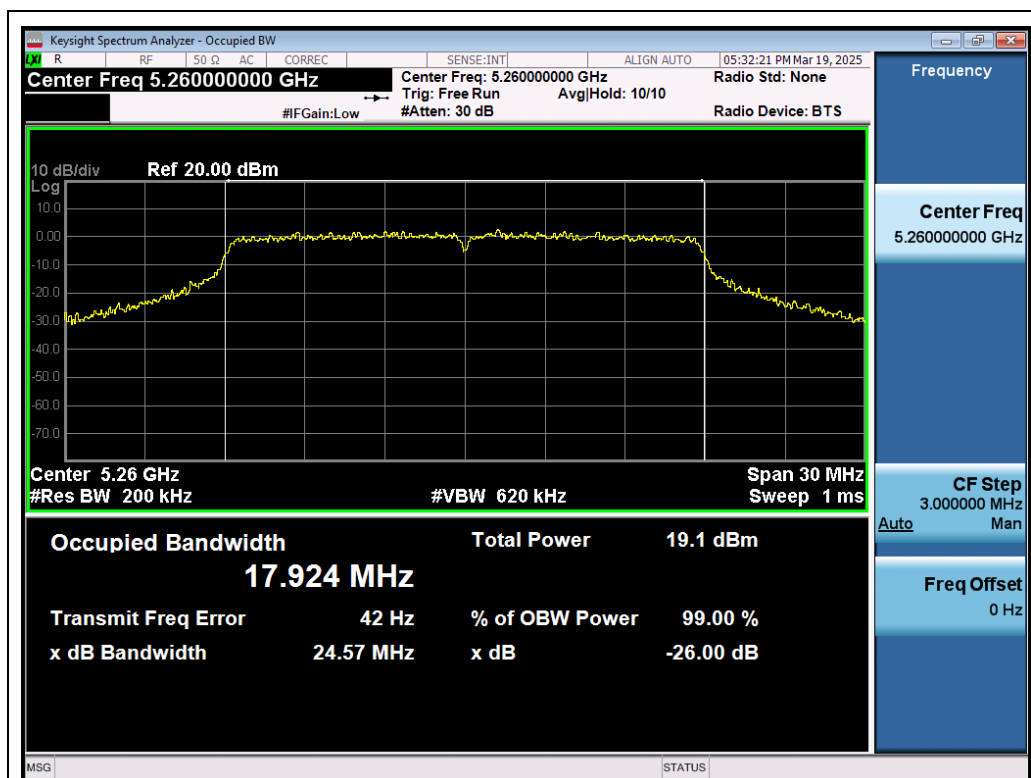
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Test_Graph_802.11n40_ANT1_5270_MCS0_OBW



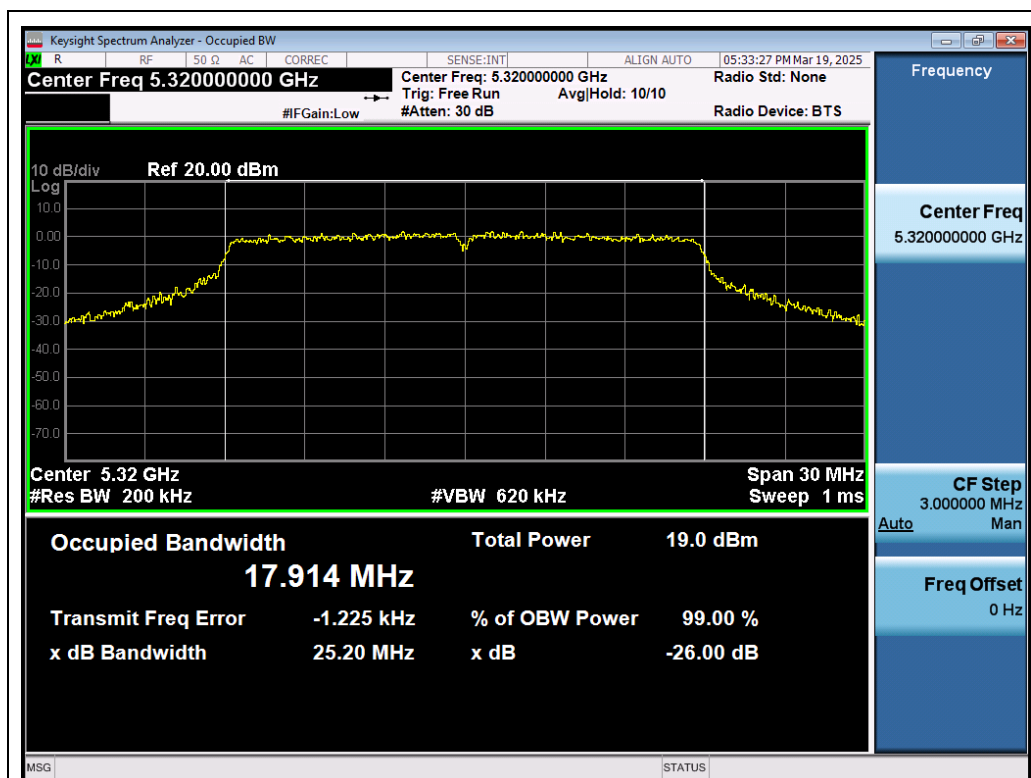
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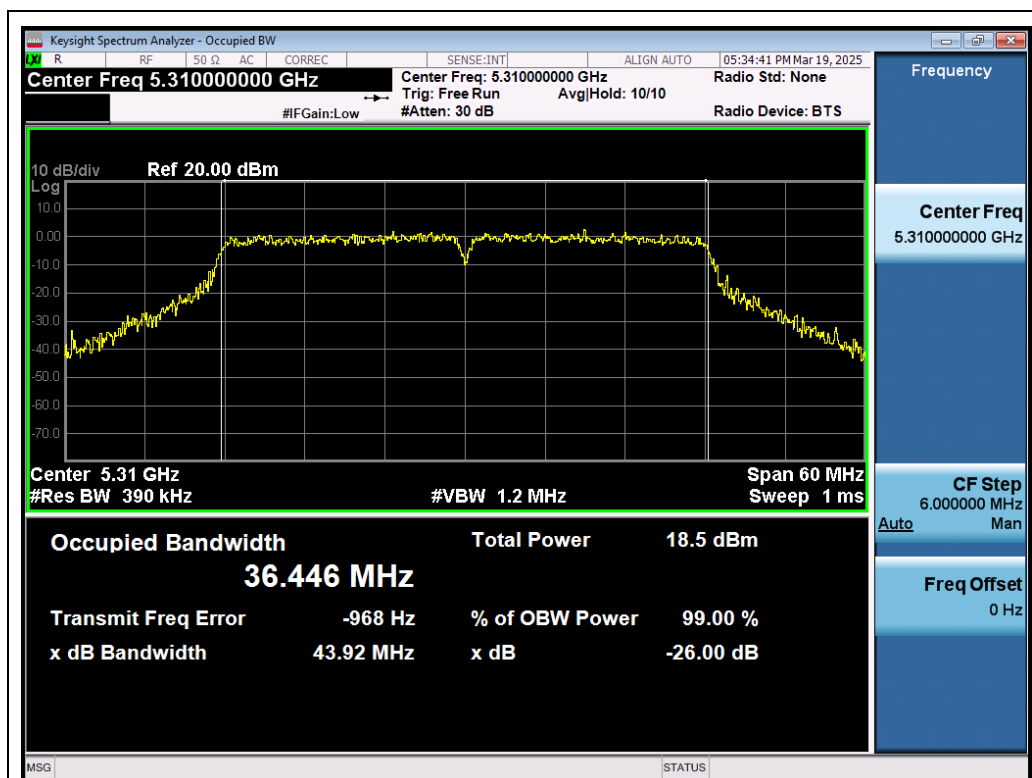
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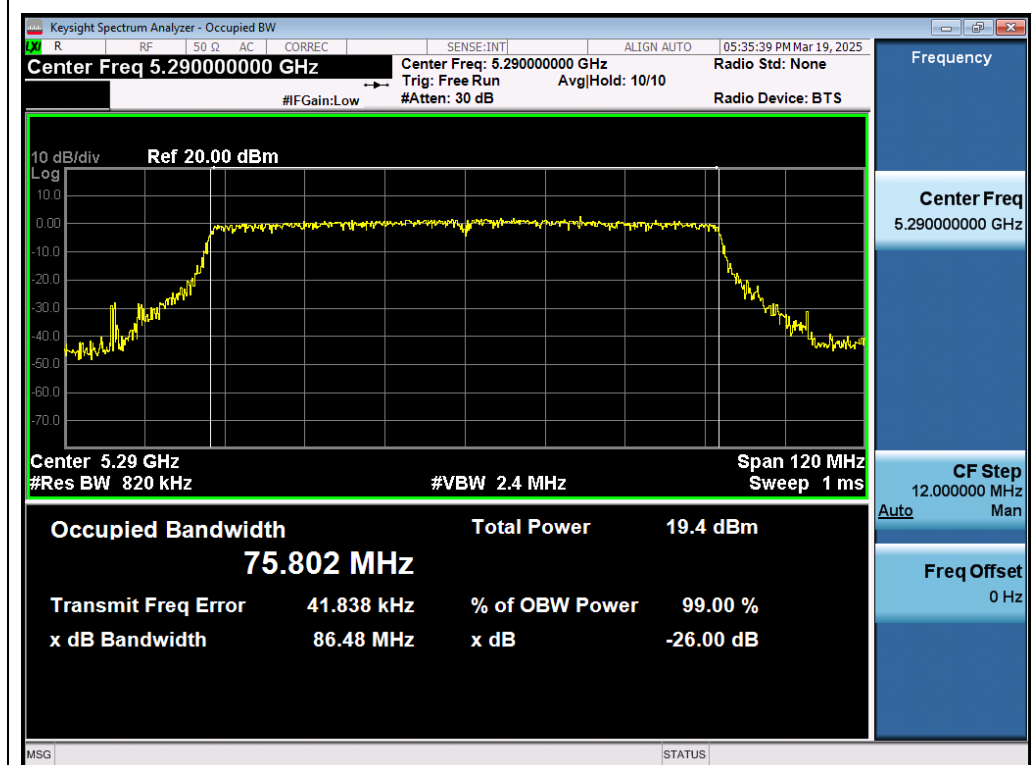
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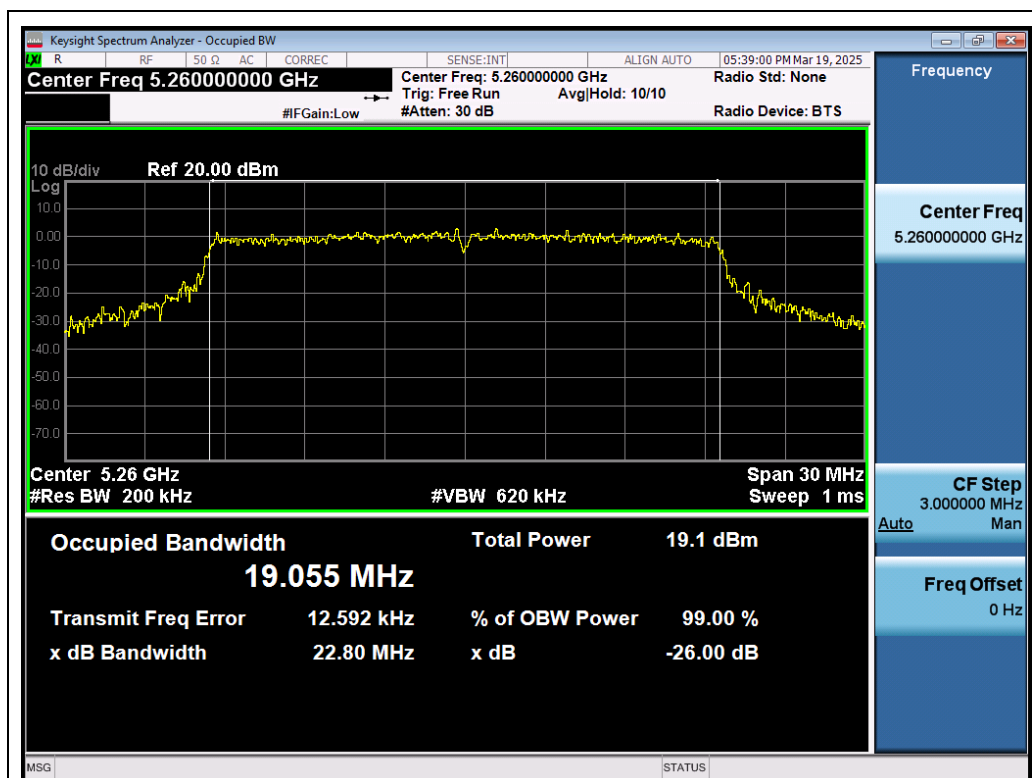
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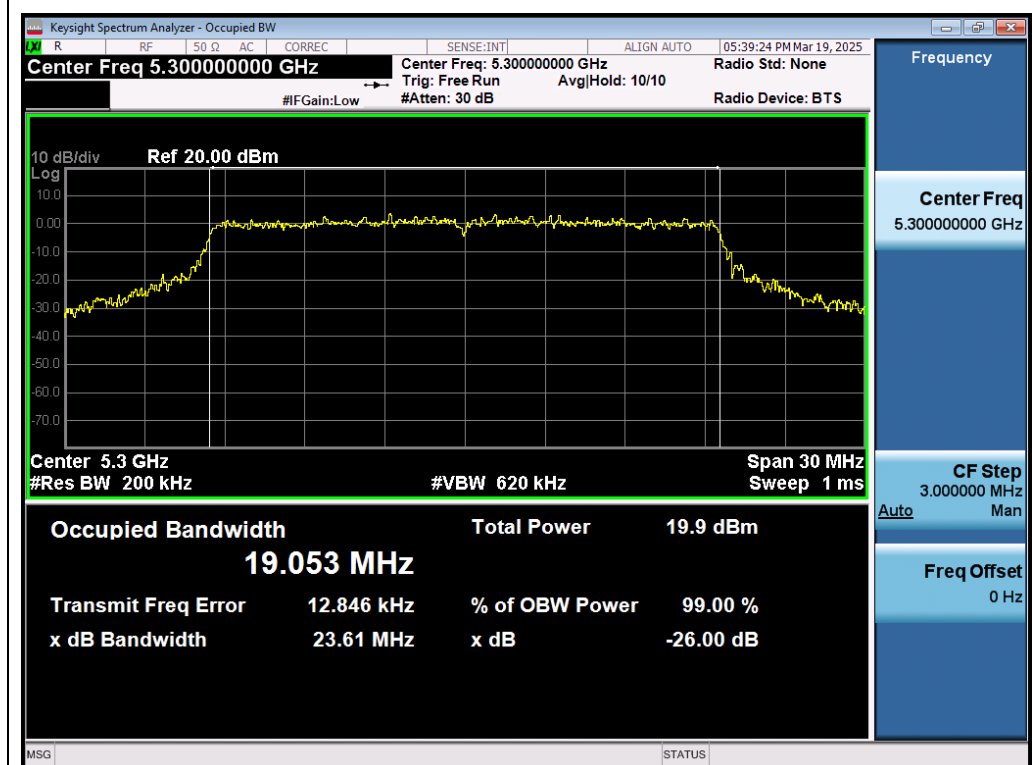
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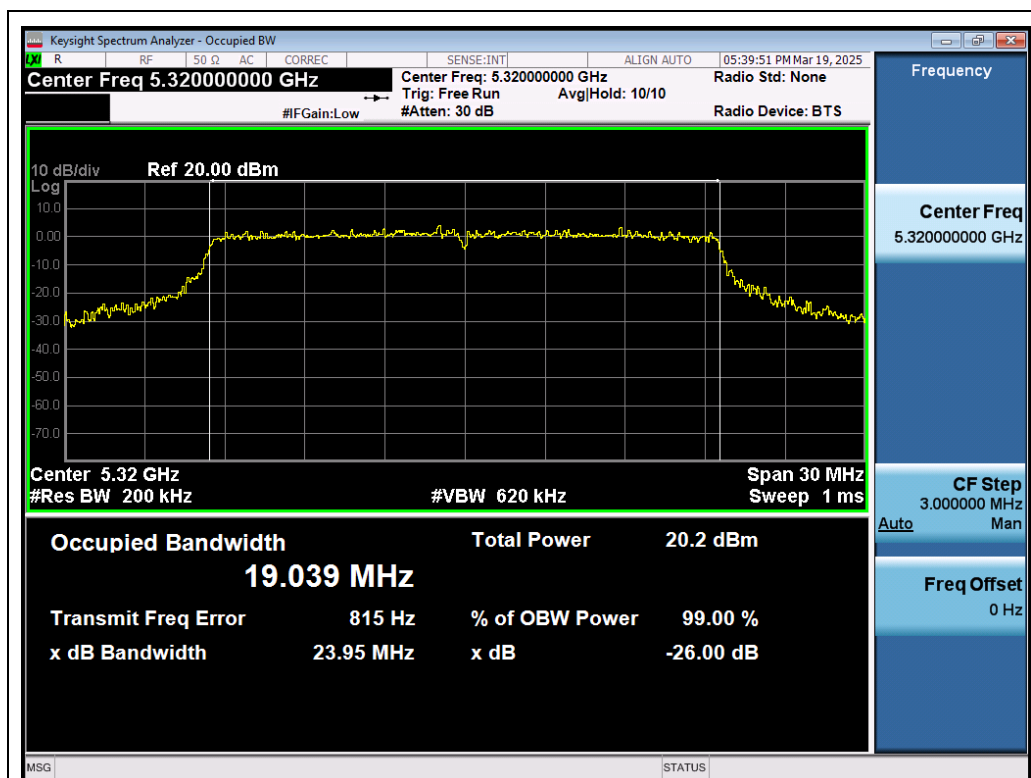
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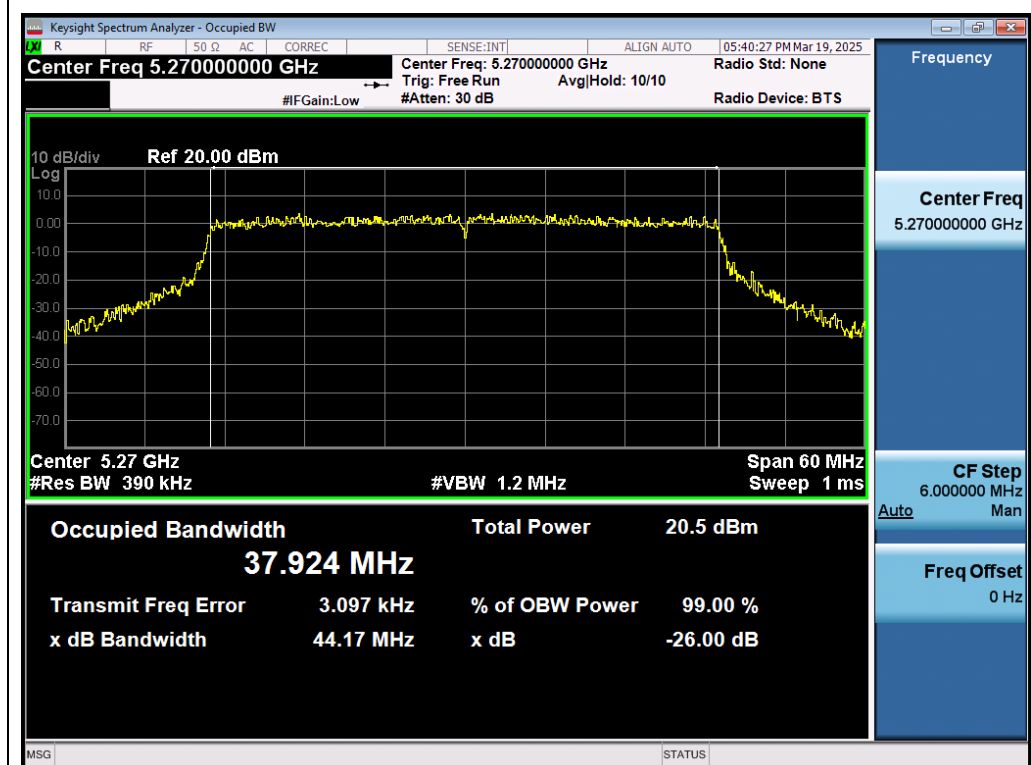
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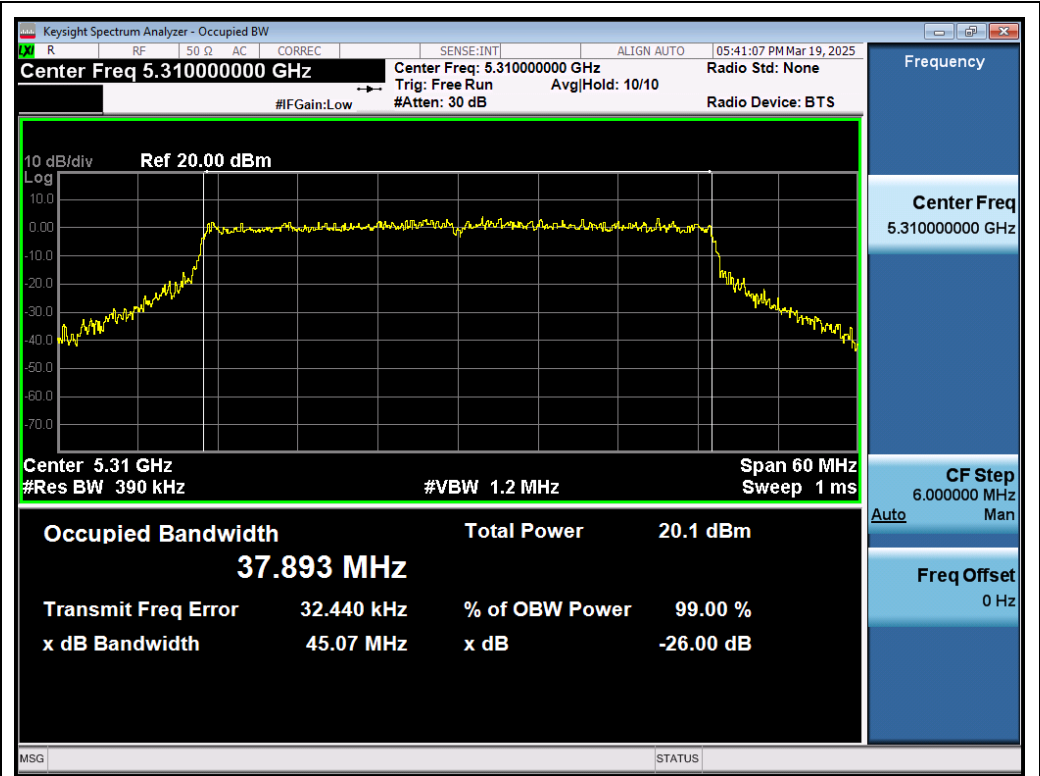
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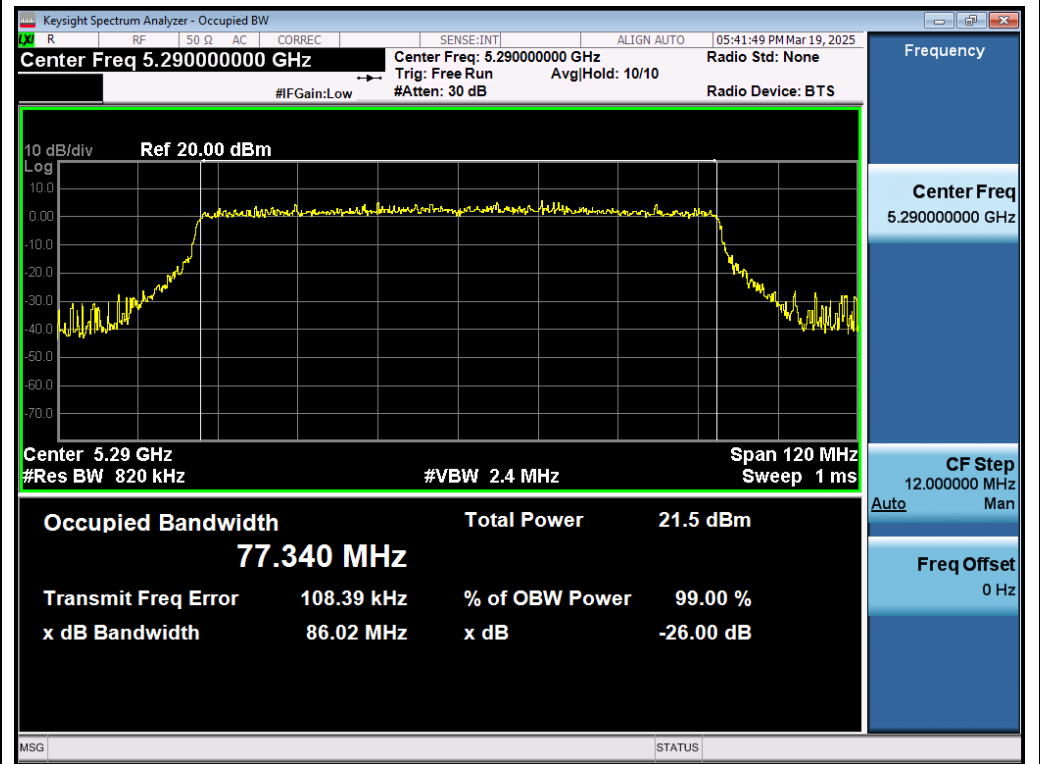
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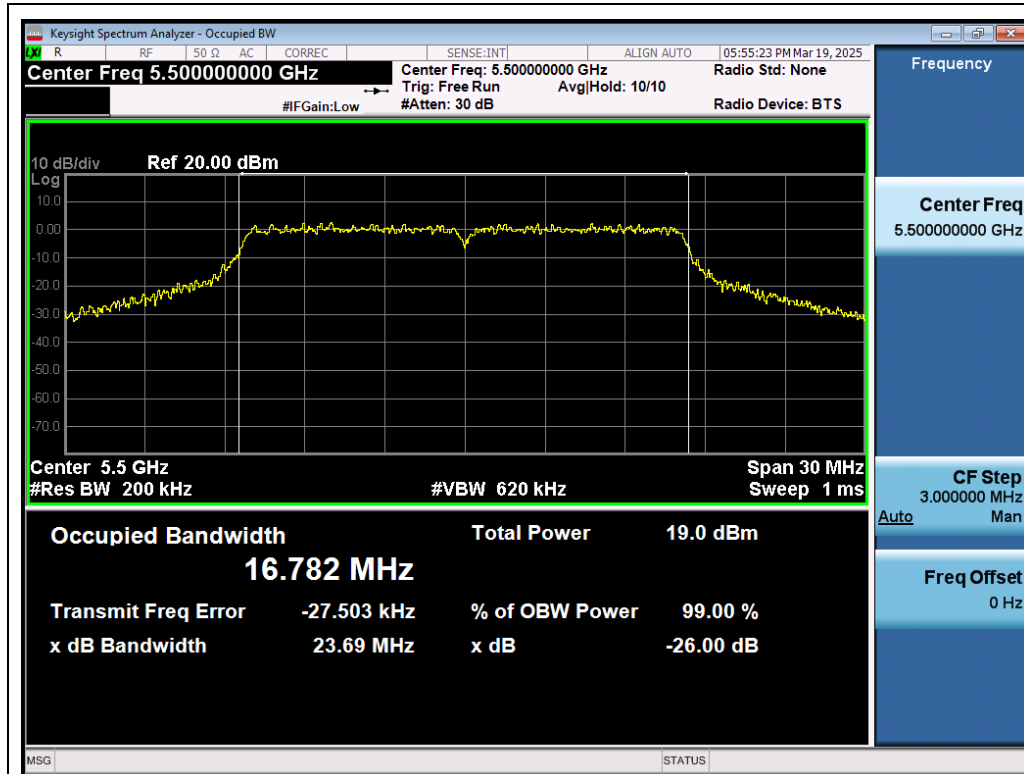


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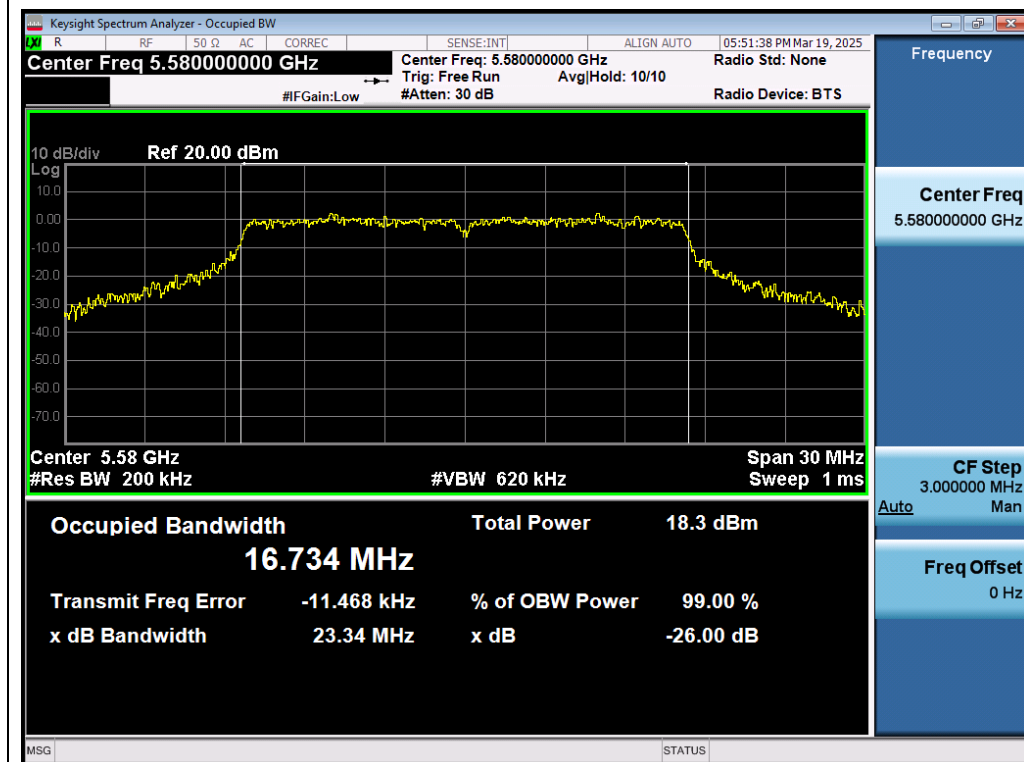


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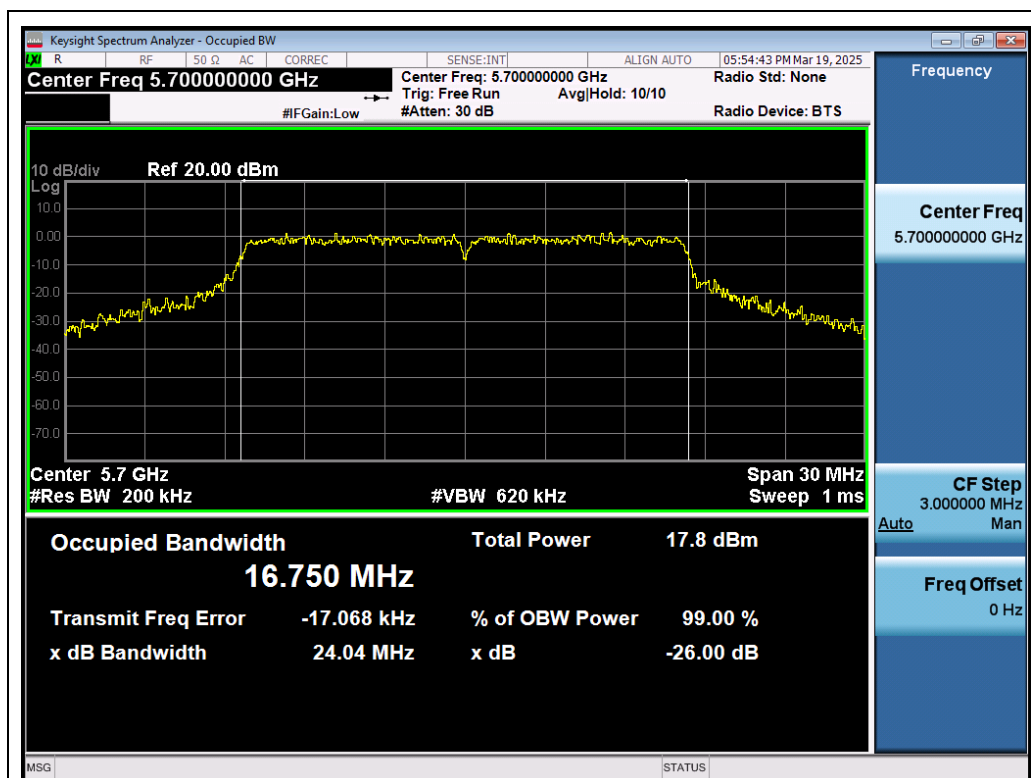
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz



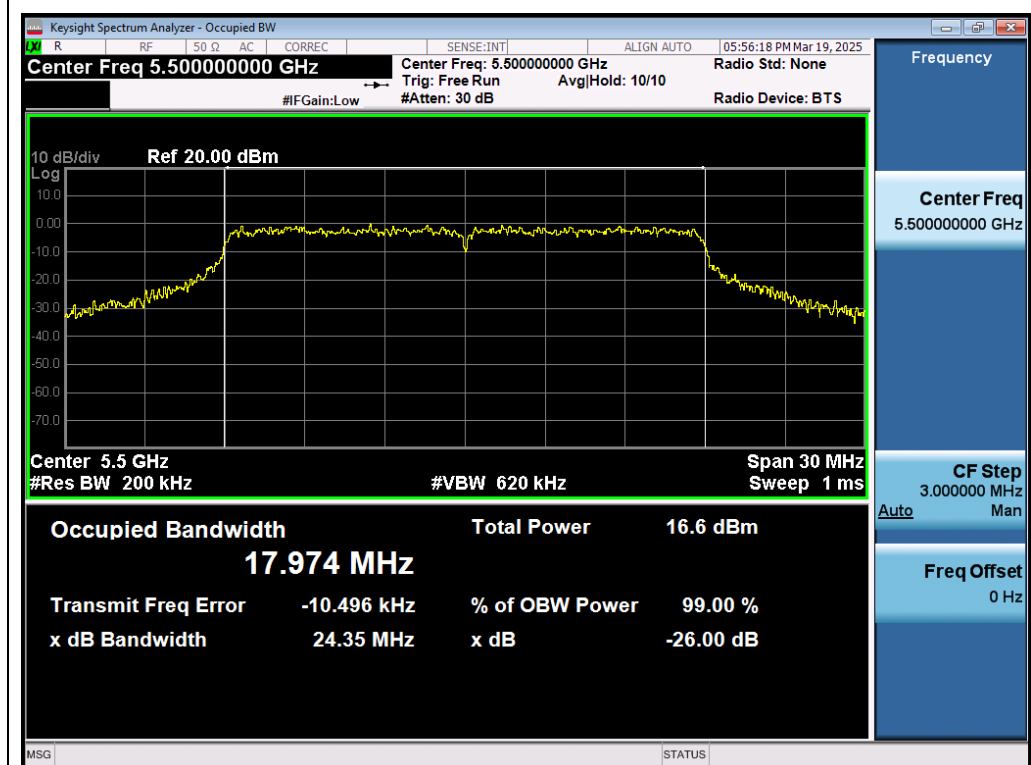
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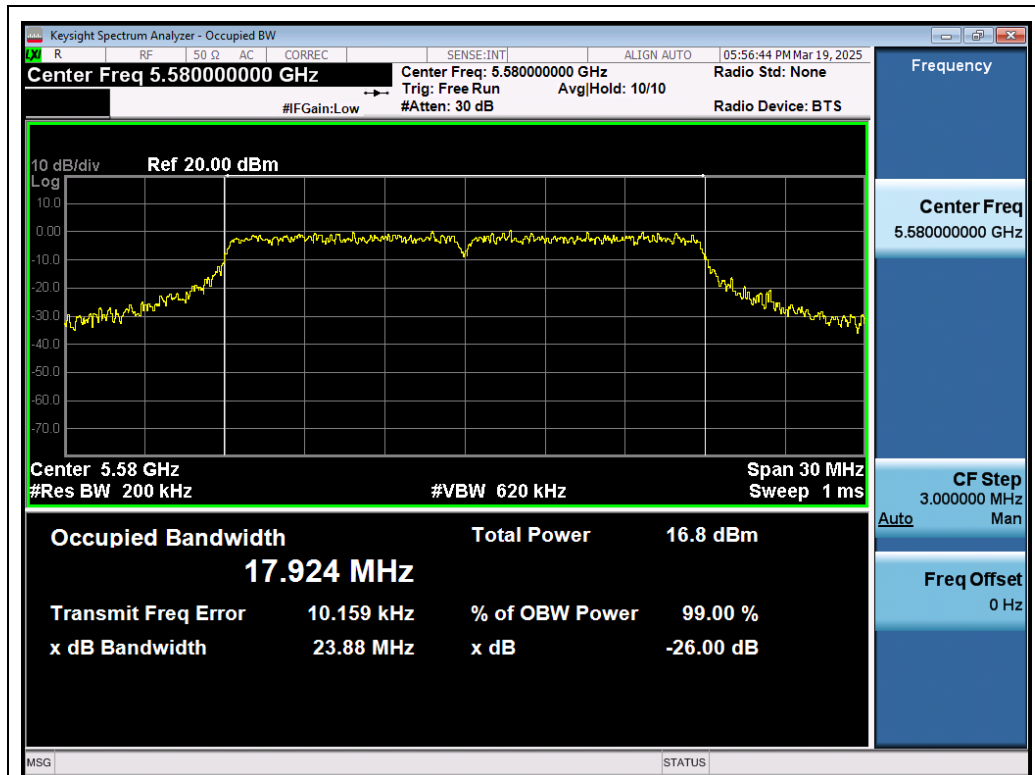
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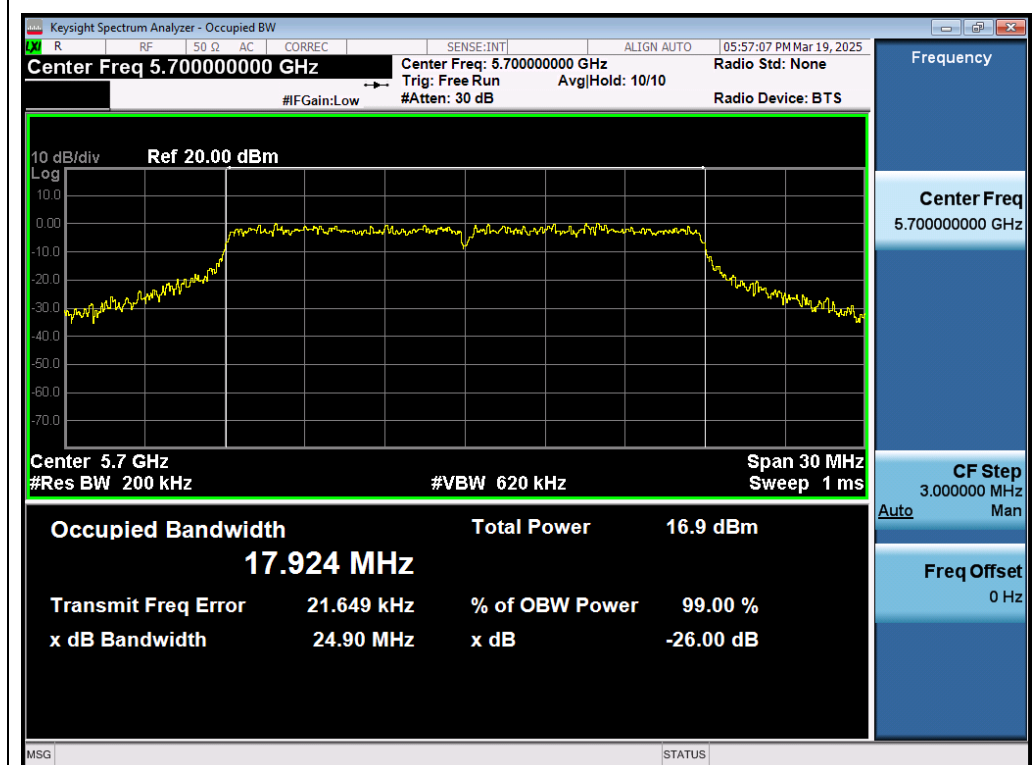
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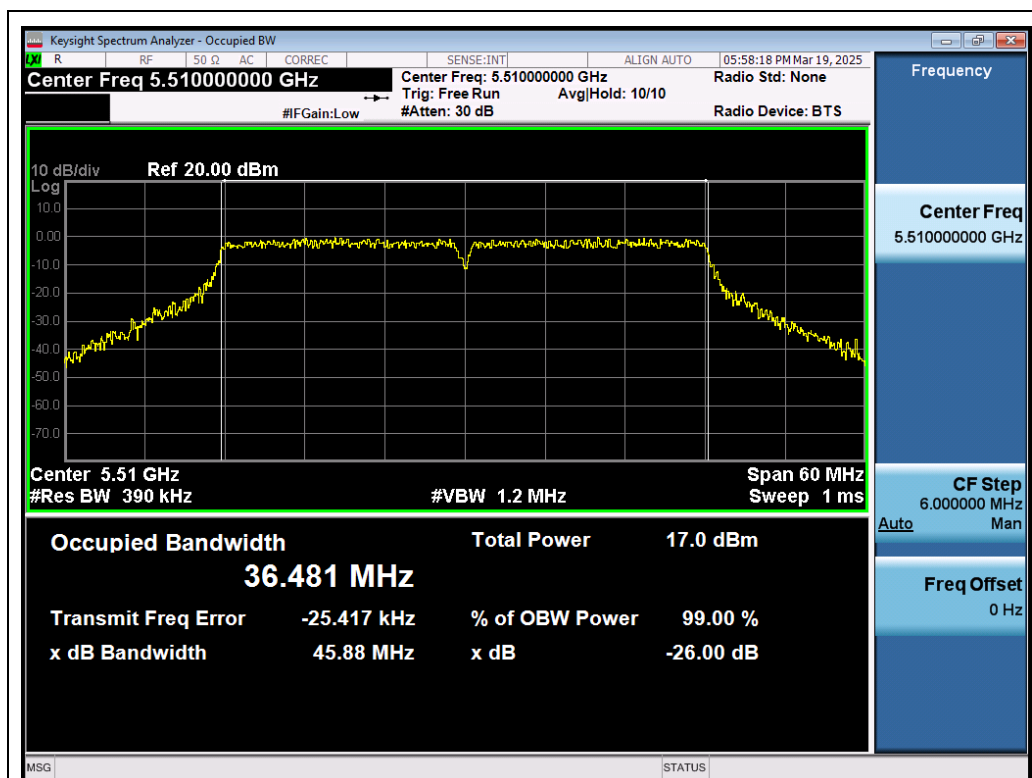
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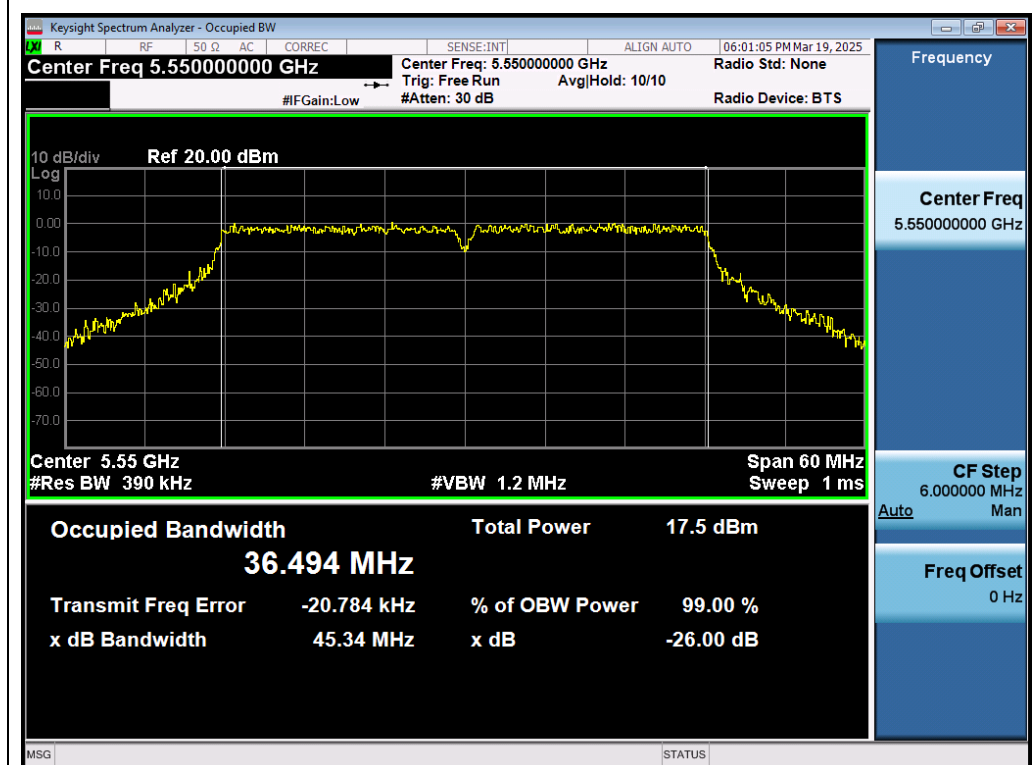
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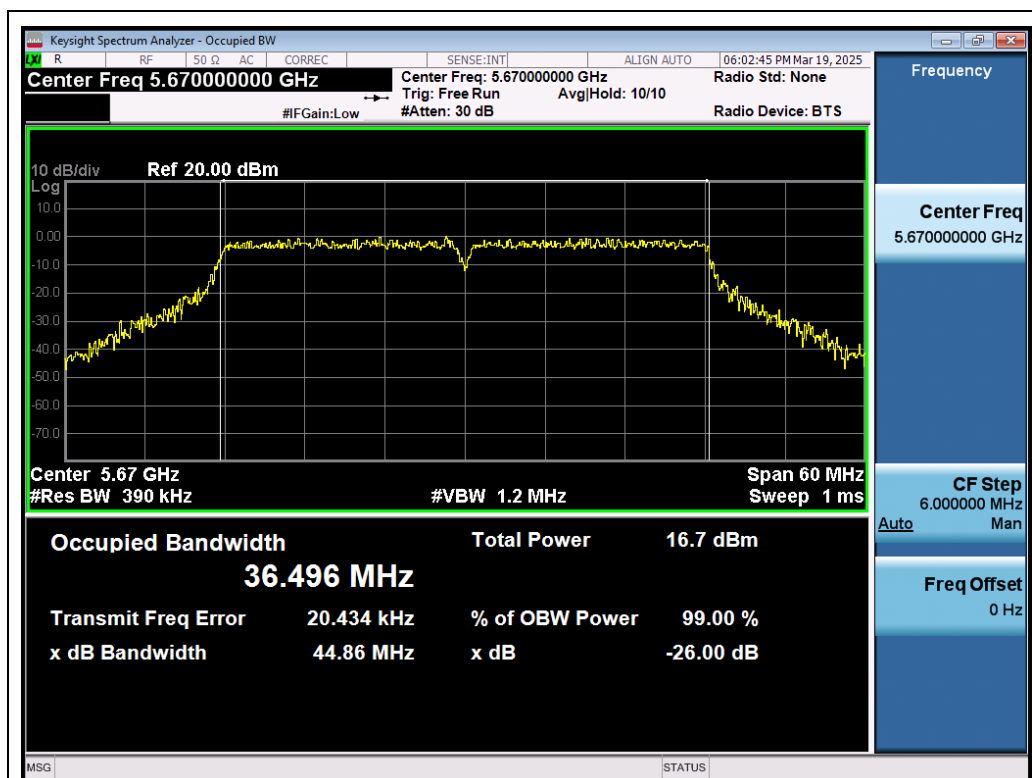
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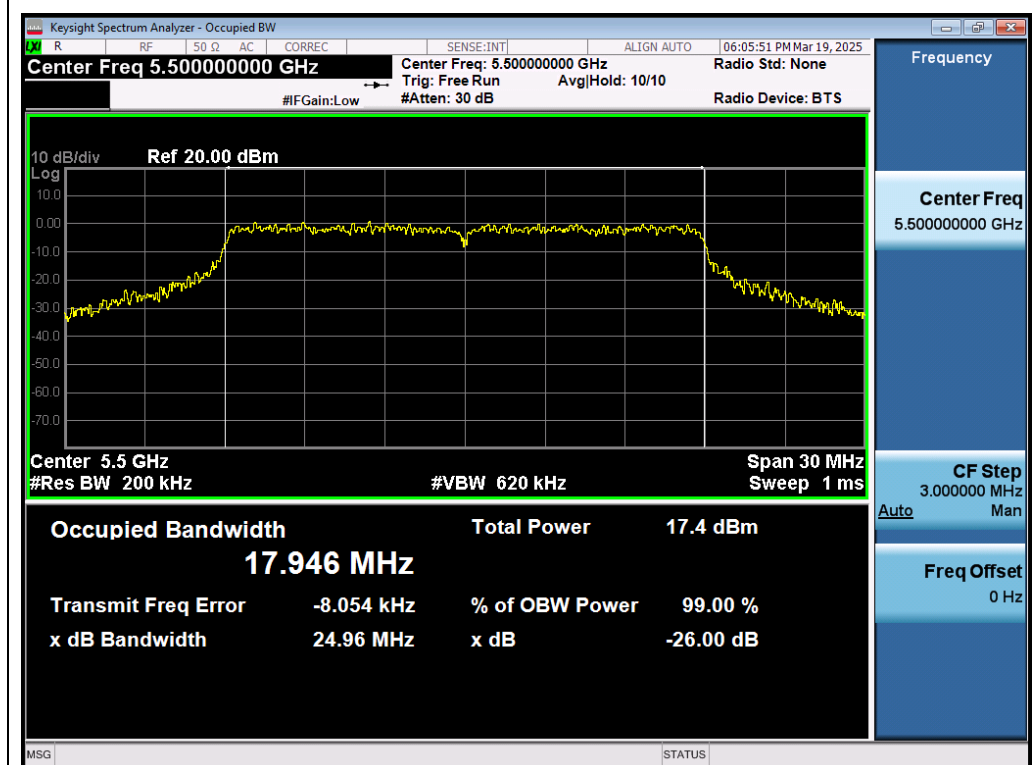
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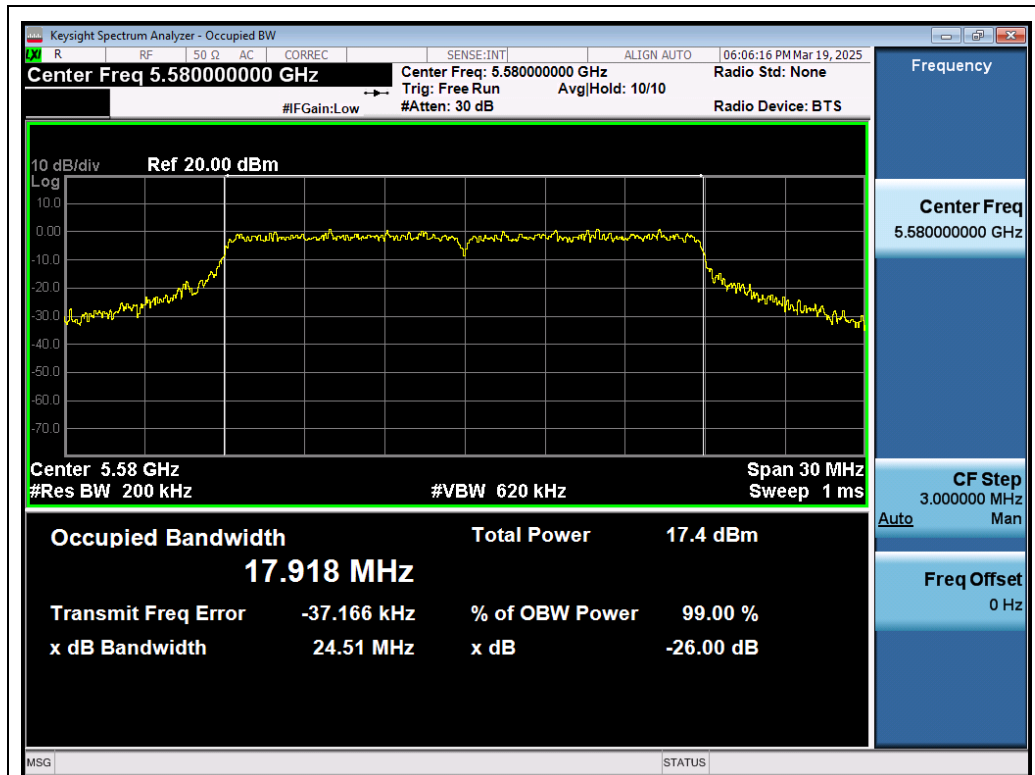
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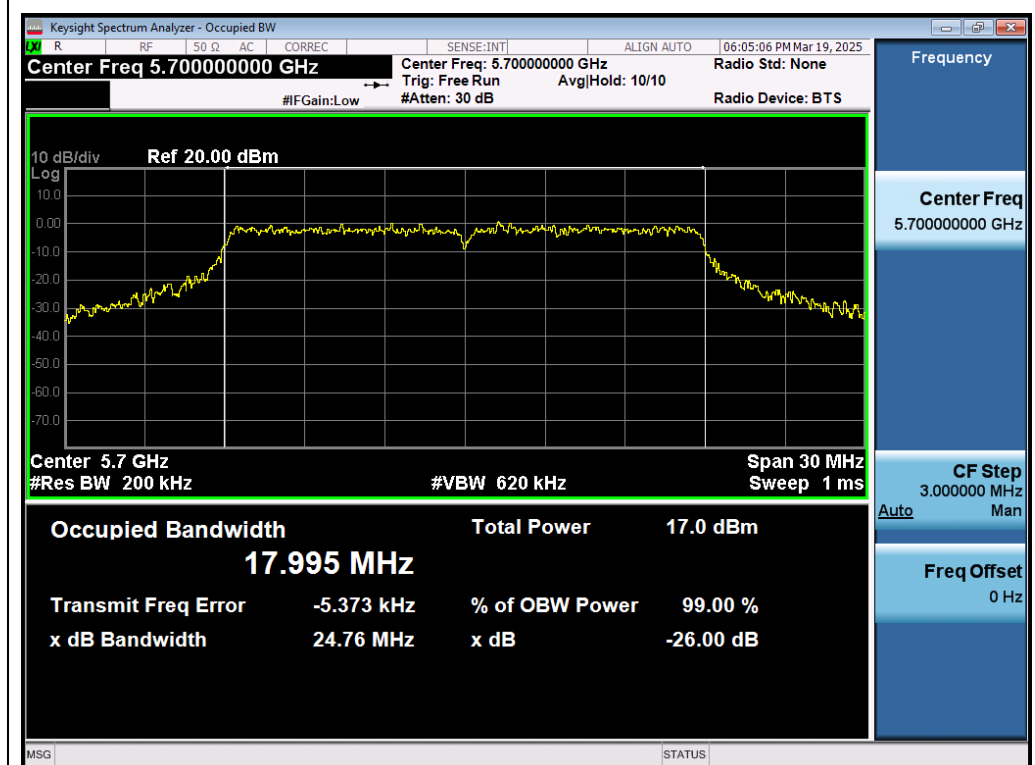
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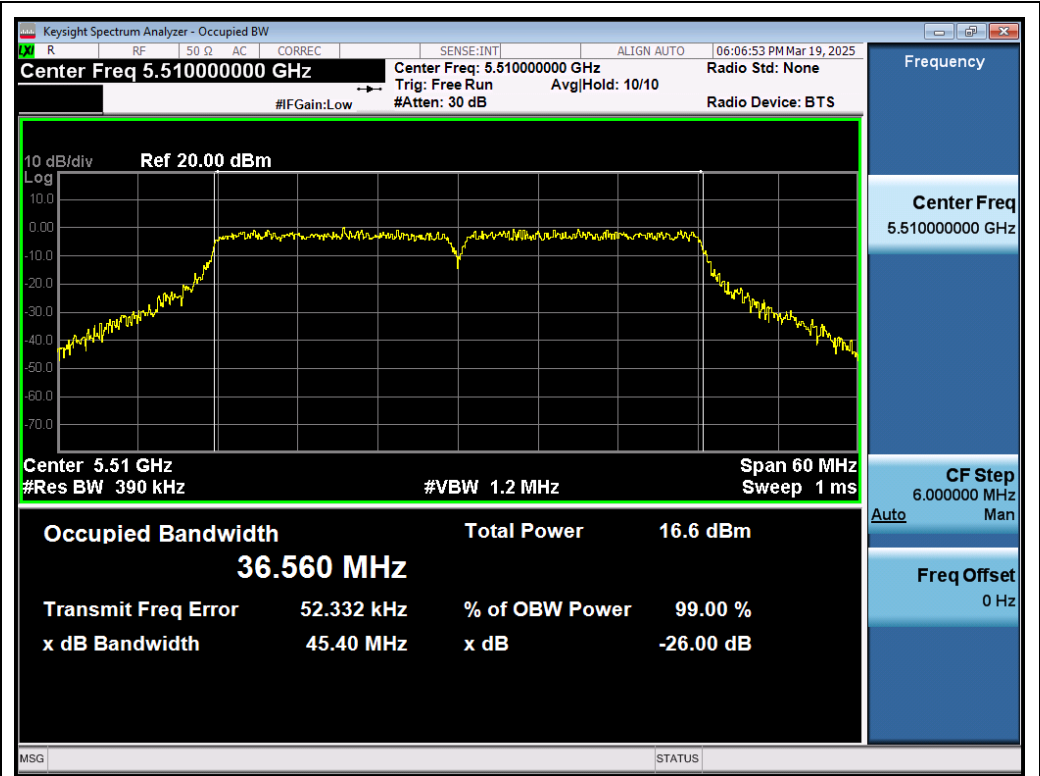
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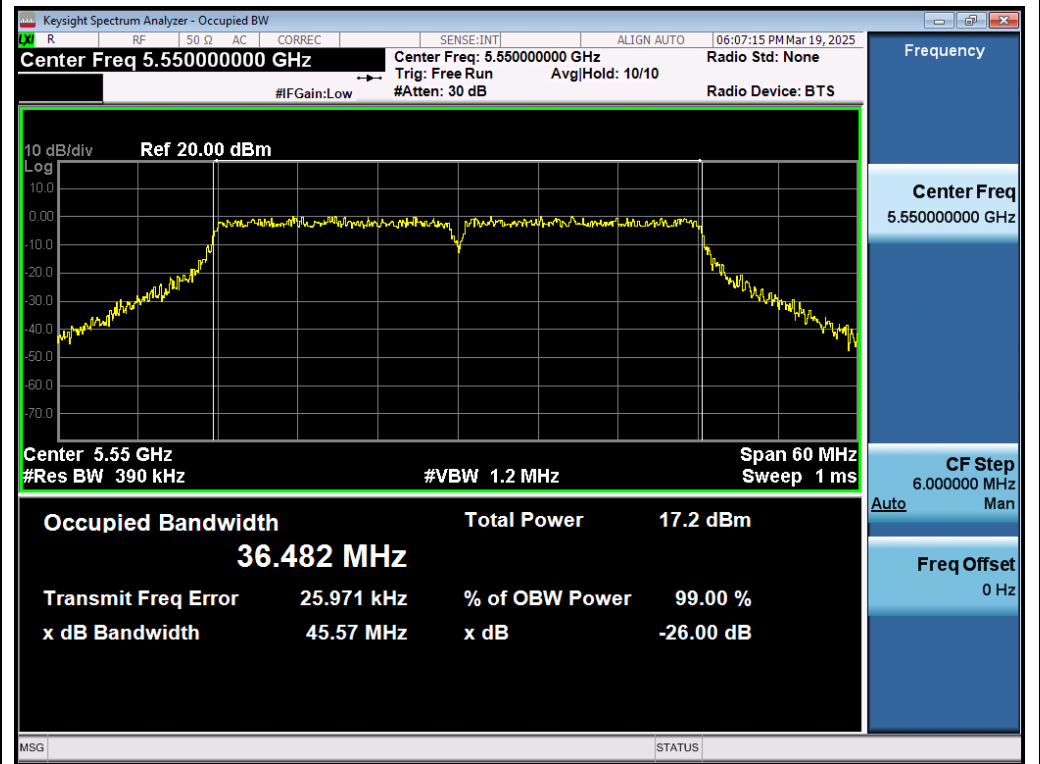
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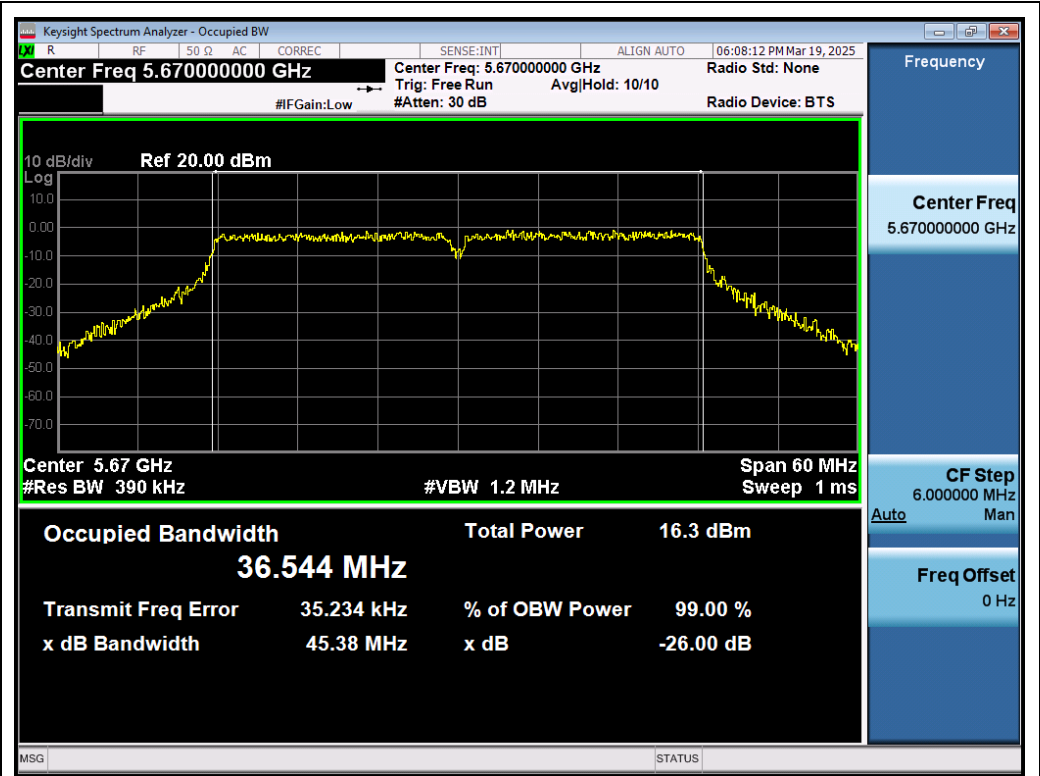
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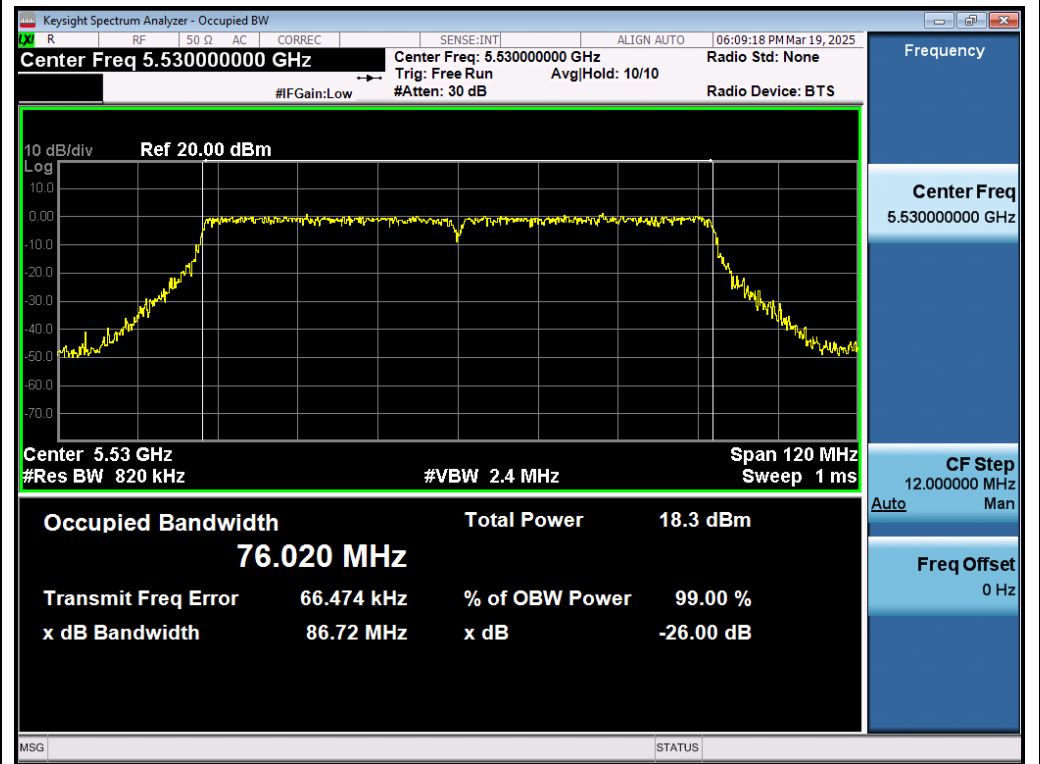
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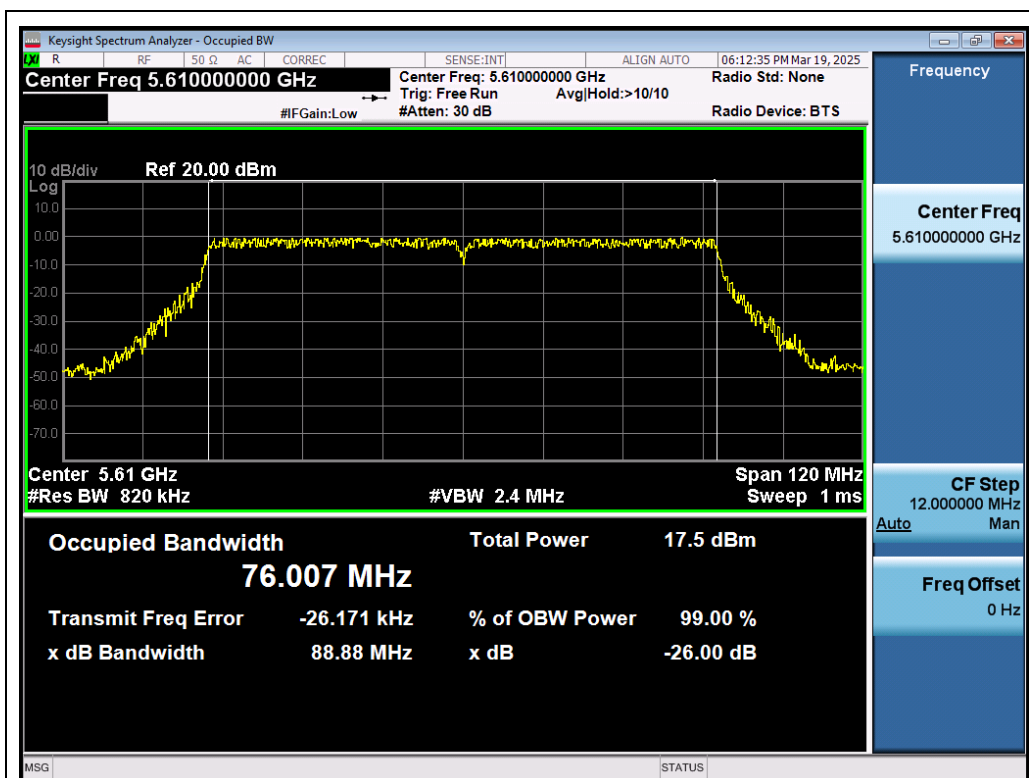
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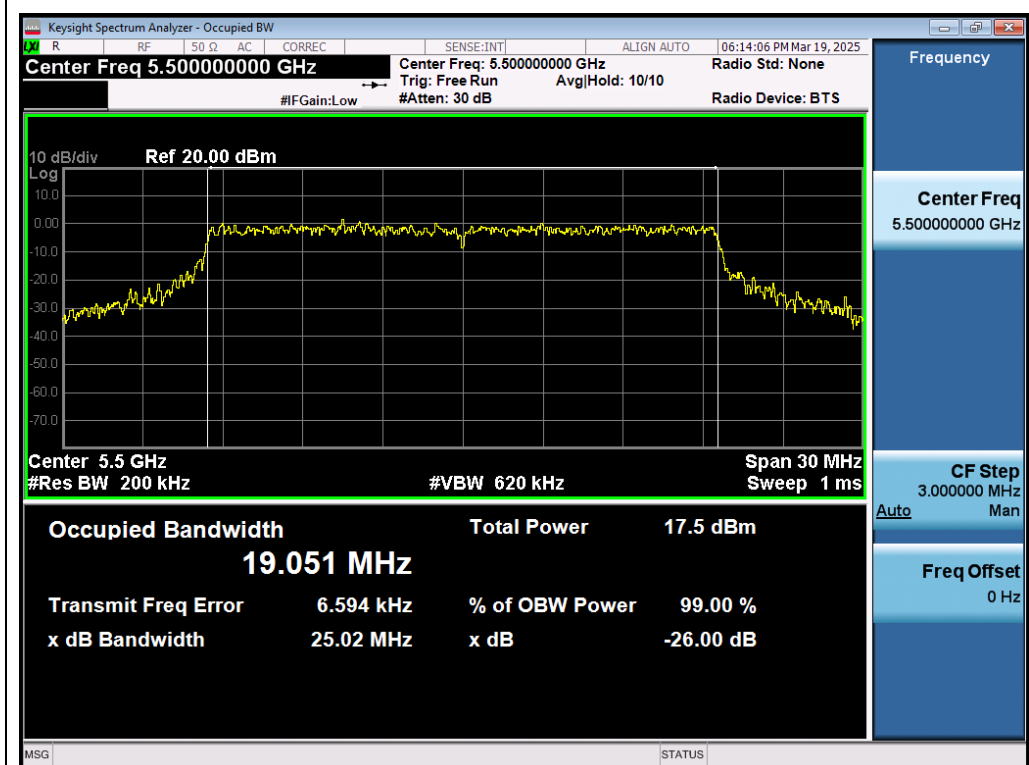
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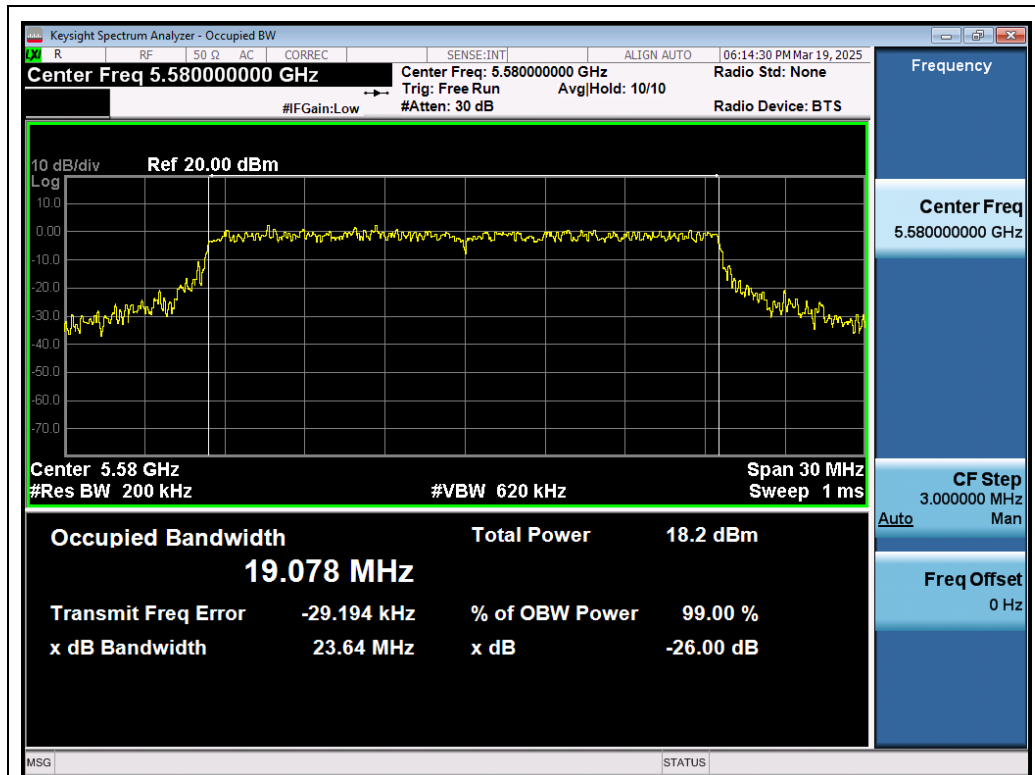
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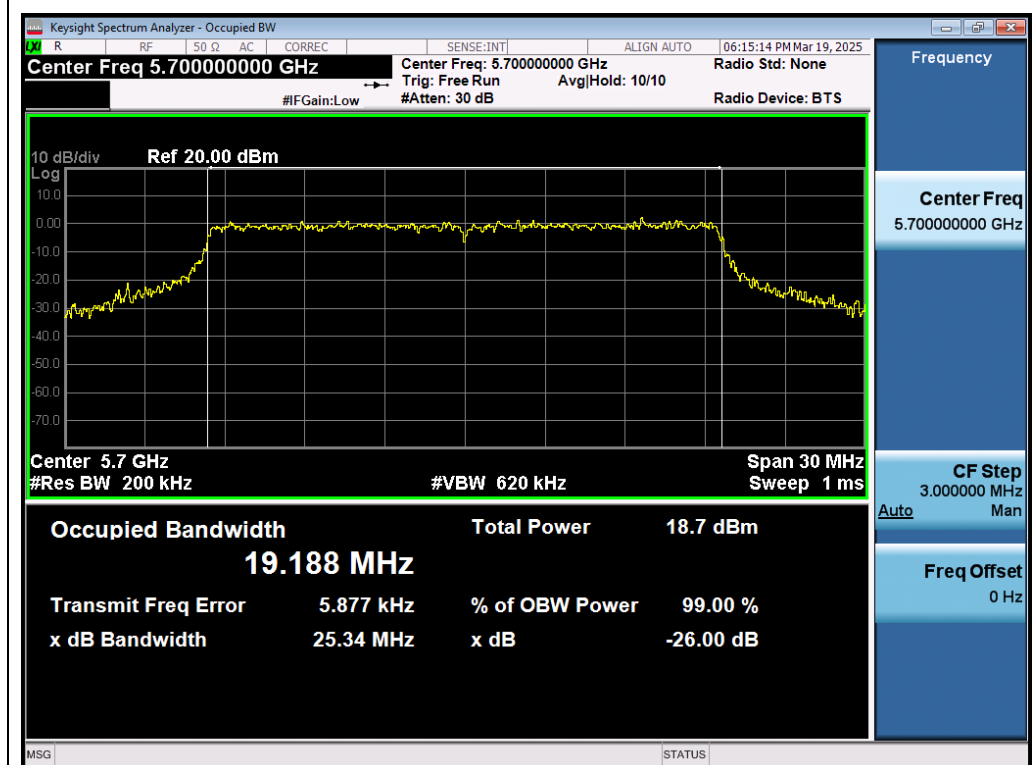
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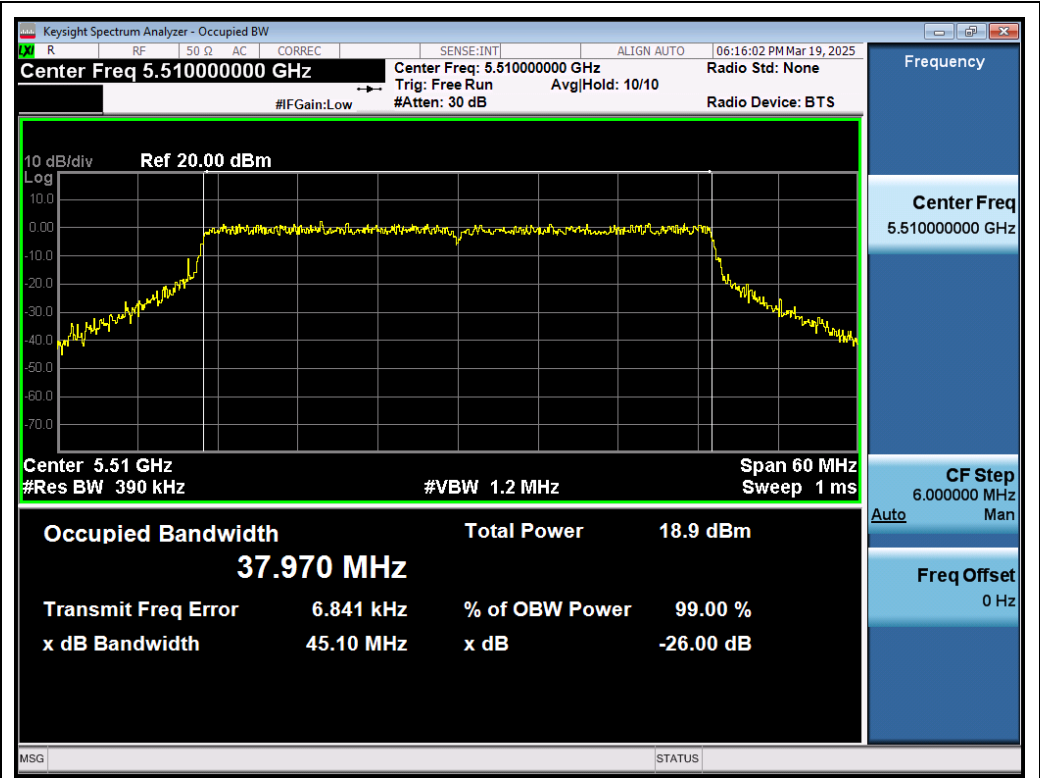
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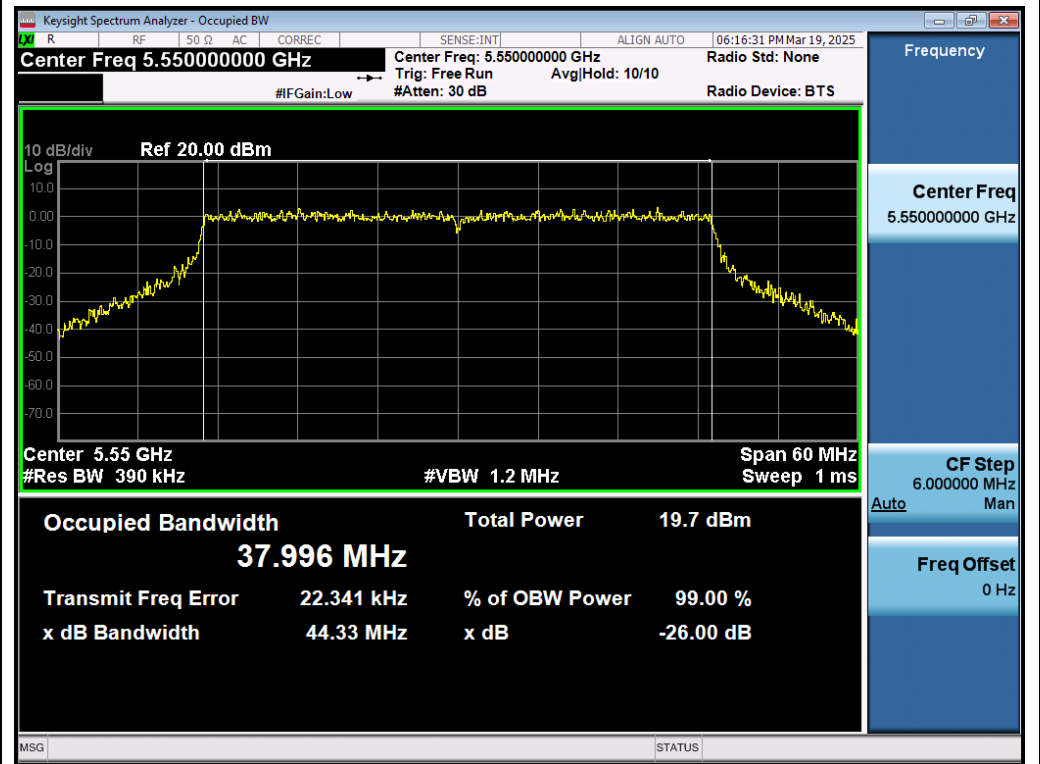
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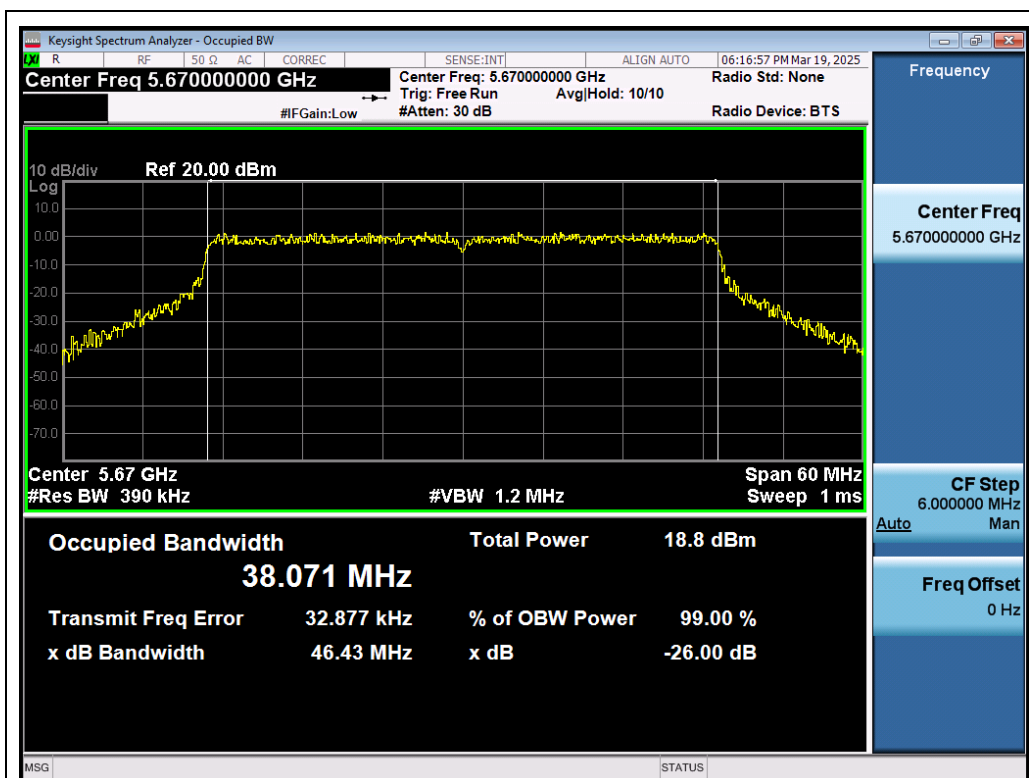
Test_Graph_802.11ax20_ANT1_5700_MCS0_OBW



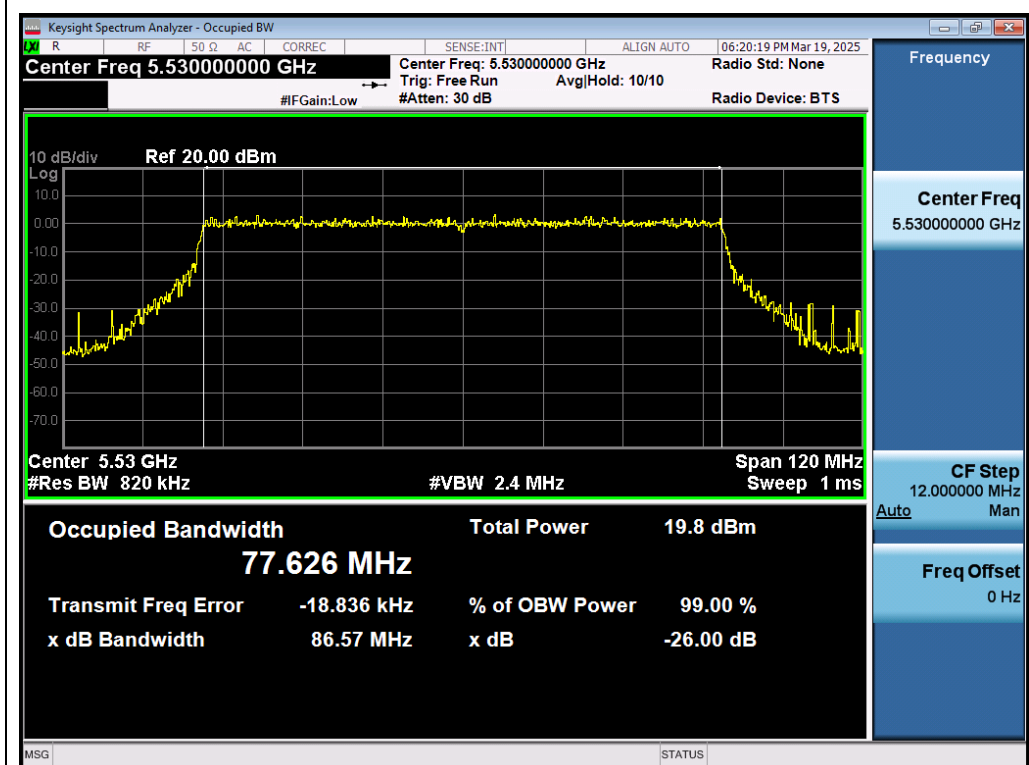
Test_Graph_802.11ax40_ANT1_5510_MCS0_OBW



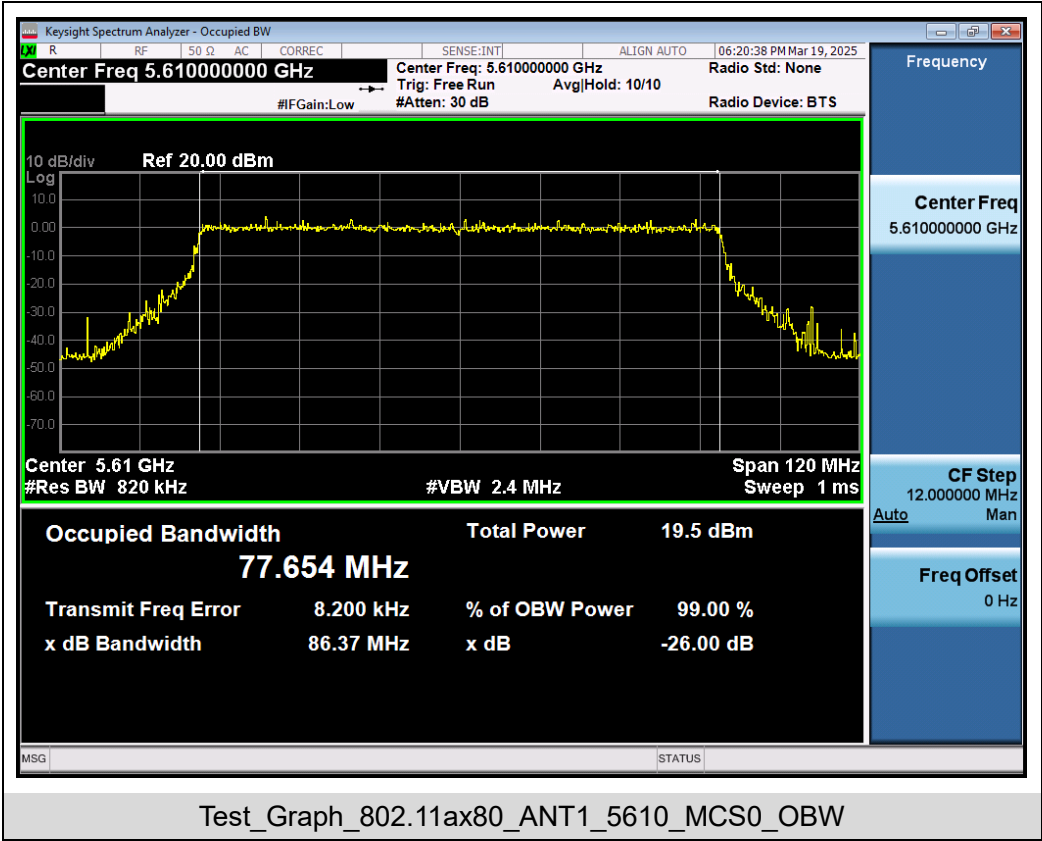
Test_Graph_802.11ax40_ANT1_5550_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5670_MCS0_OBW



Test_Graph_802.11ax80_ANT1_5530_MCS0_OBW



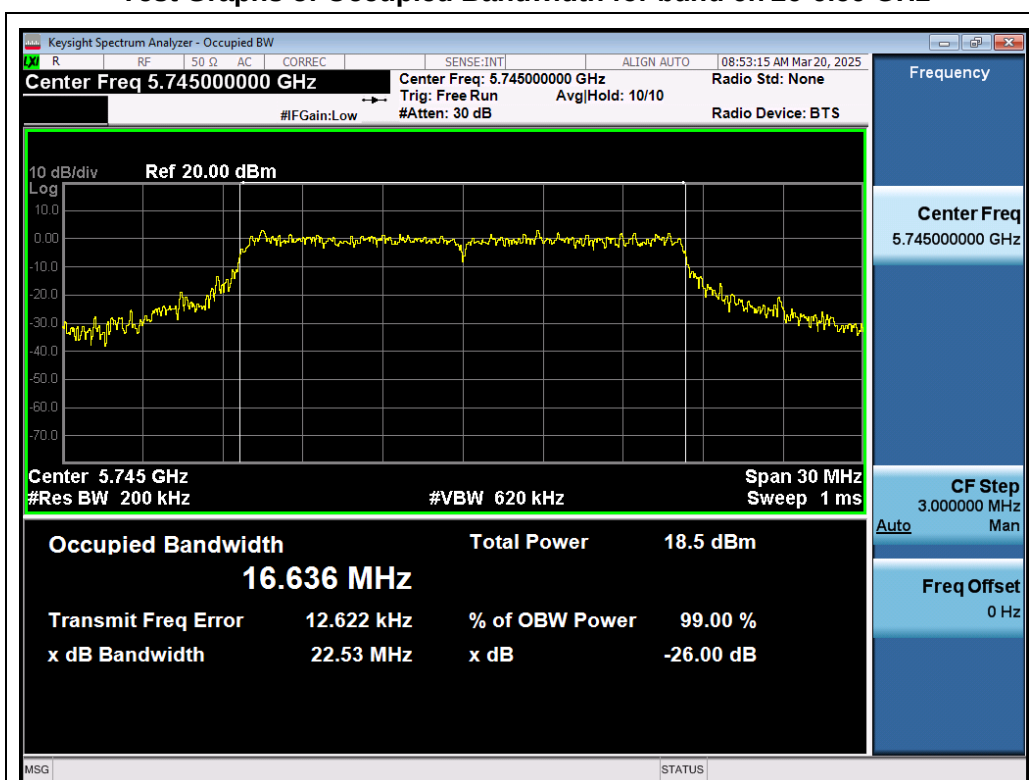
Appendix A2: DTS Bandwidth and Occupied Bandwidth

Test Result

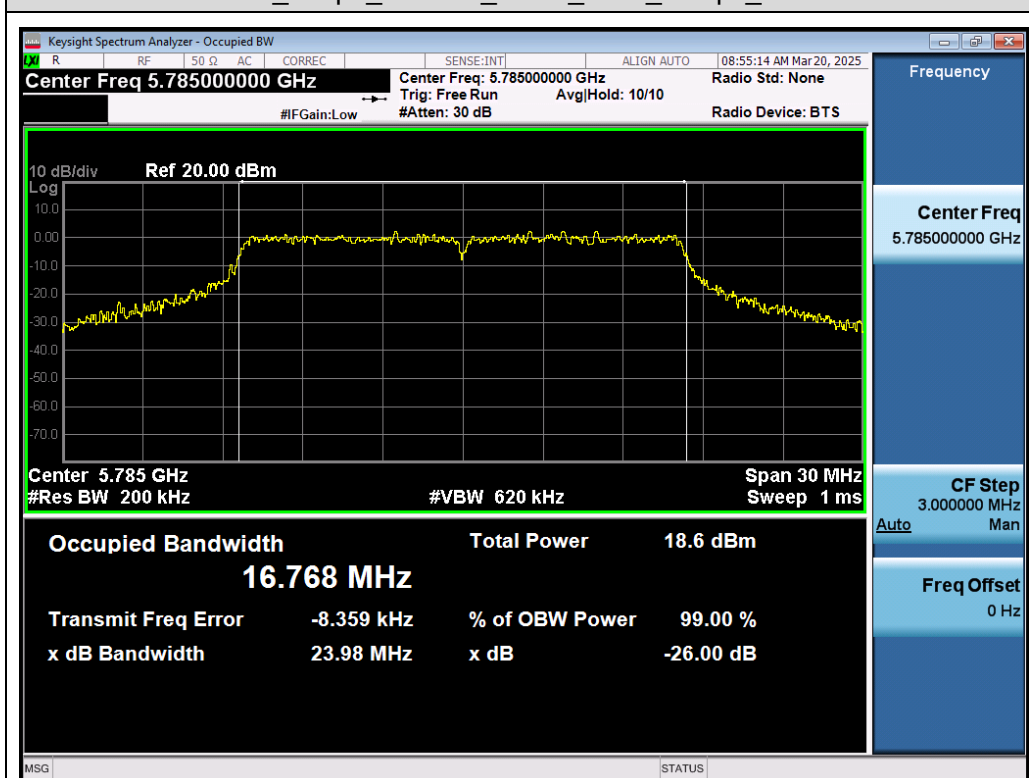
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Result
802.11a	5745	16.636	16.373	0.5	Pass
	5785	16.768	16.386	0.5	Pass
	5825	16.760	16.399	0.5	Pass
802.11n20	5745	17.923	17.854	0.5	Pass
	5785	17.985	17.639	0.5	Pass
	5825	17.978	17.670	0.5	Pass
802.11n40	5755	36.565	36.374	0.5	Pass
	5795	36.551	36.440	0.5	Pass
802.11ac20	5745	17.918	17.665	0.5	Pass
	5785	17.977	17.647	0.5	Pass
	5825	17.907	17.856	0.5	Pass
802.11ac40	5755	36.472	36.450	0.5	Pass
	5795	36.580	36.432	0.5	Pass
802.11ac80	5775	75.996	76.418	0.5	Pass
802.11ax20	5180	19.108	18.871	0.5	Pass
	5200	19.165	18.986	0.5	Pass
	5240	19.173	18.981	0.5	Pass
802.11ax40	5190	37.966	38.043	0.5	Pass
	5230	37.953	37.886	0.5	Pass
802.11ax80	5210	77.509	77.977	0.5	Pass

Test Graphs

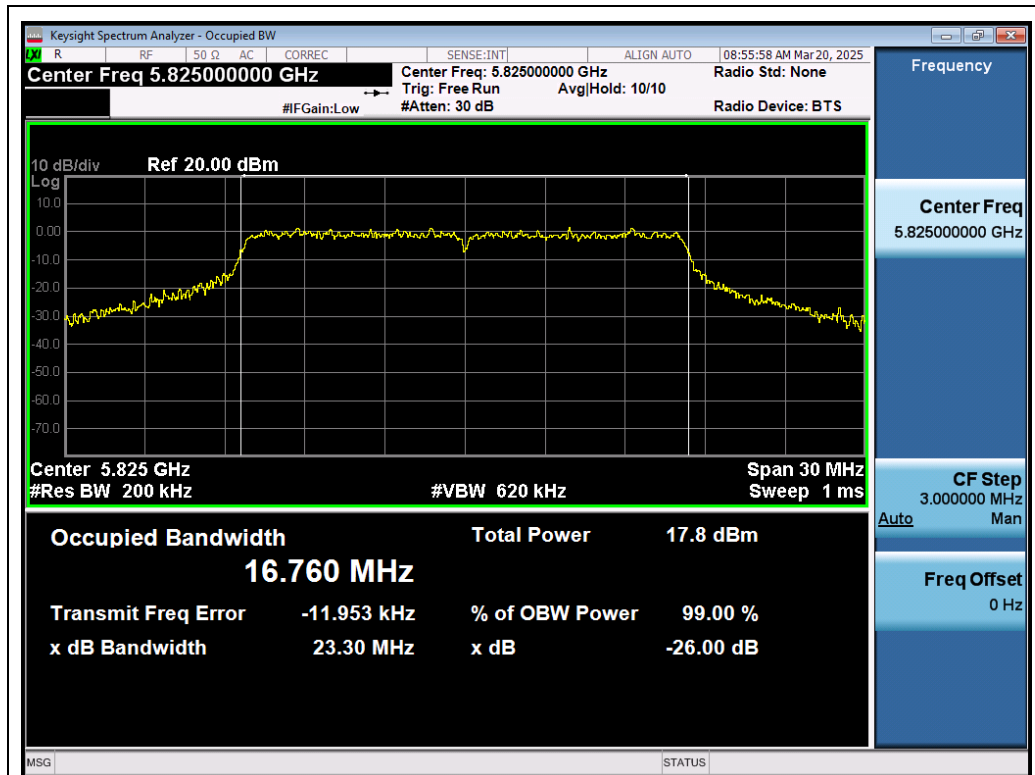
Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



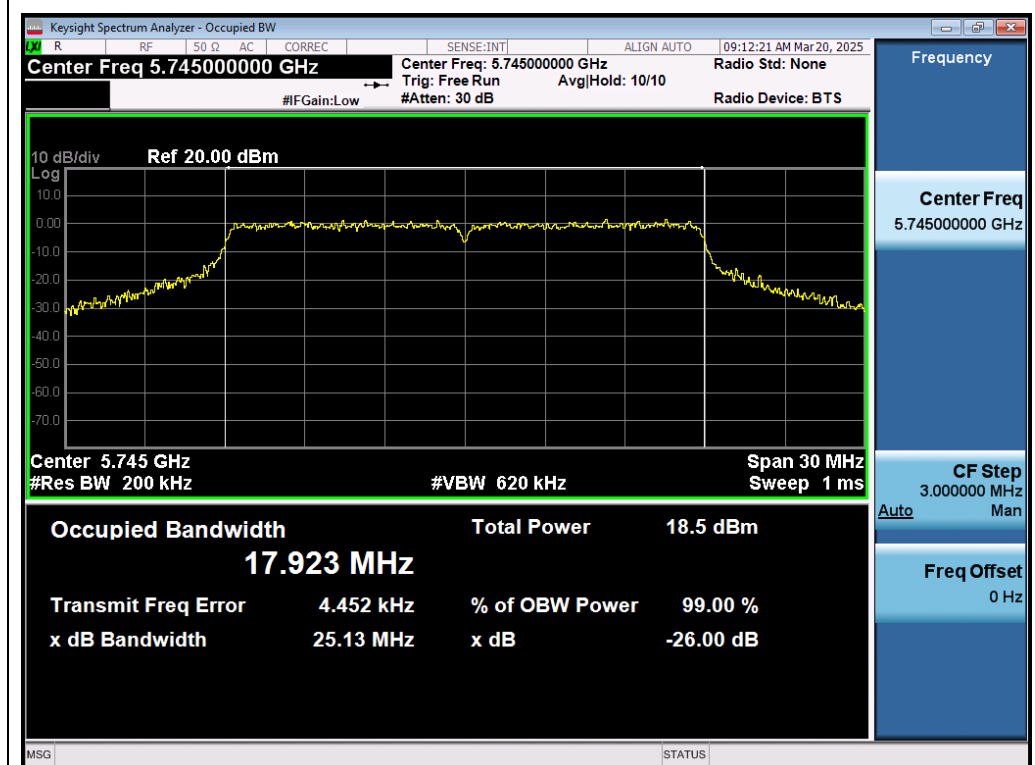
Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



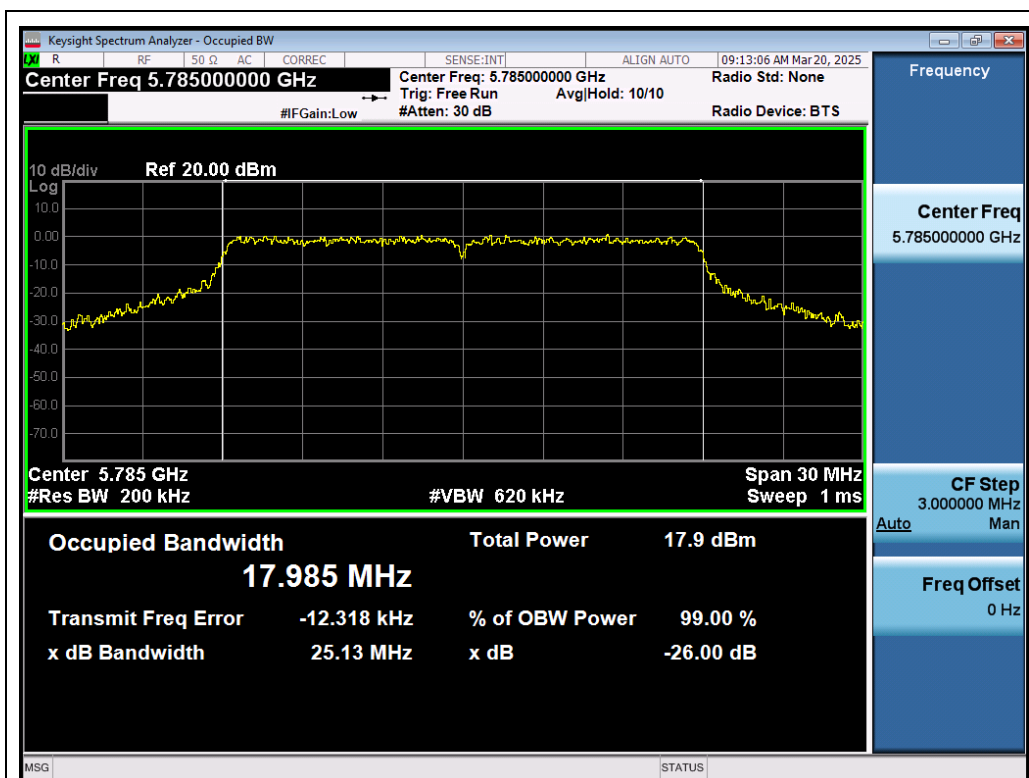
Test_Graph_802.11a_ANT1_5785_6Mbps_OBW



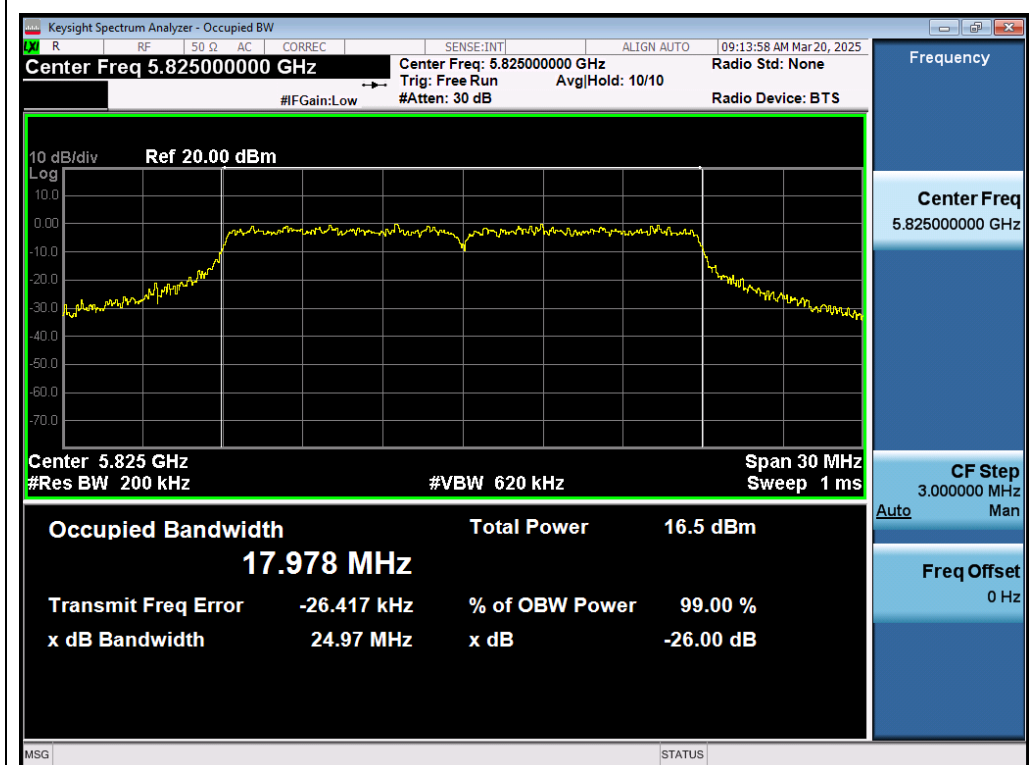
Test_Graph_802.11a_ANT1_5825_6Mbps_OBW



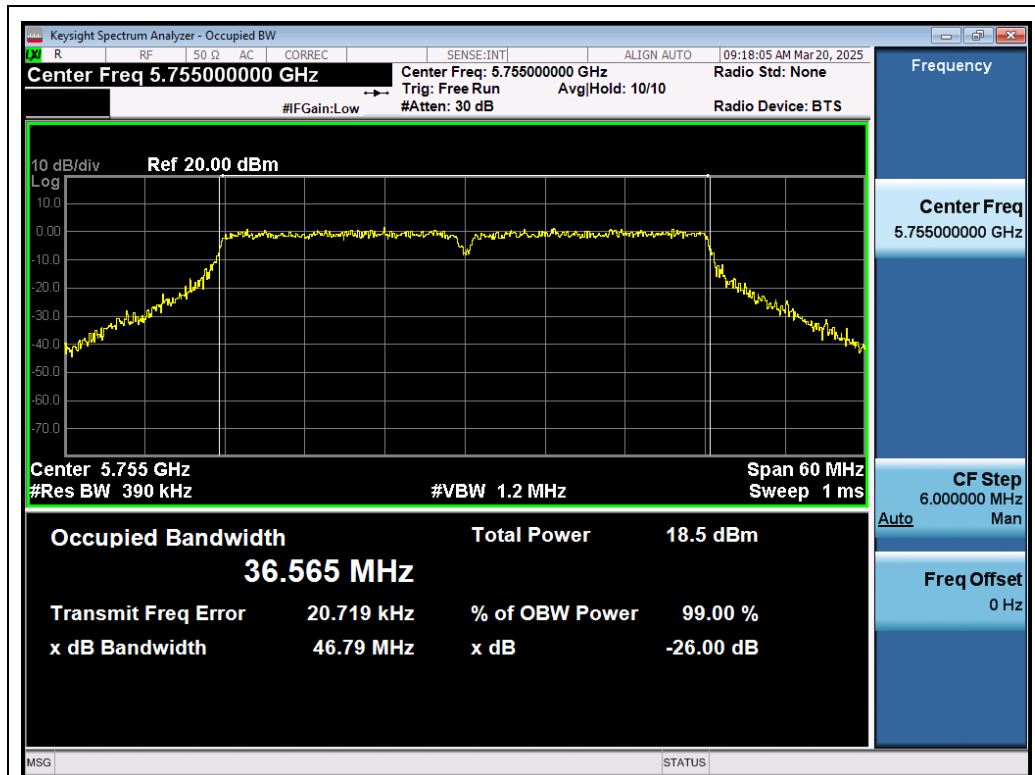
Test_Graph_802.11n20_ANT1_5745_MCS0_OBW



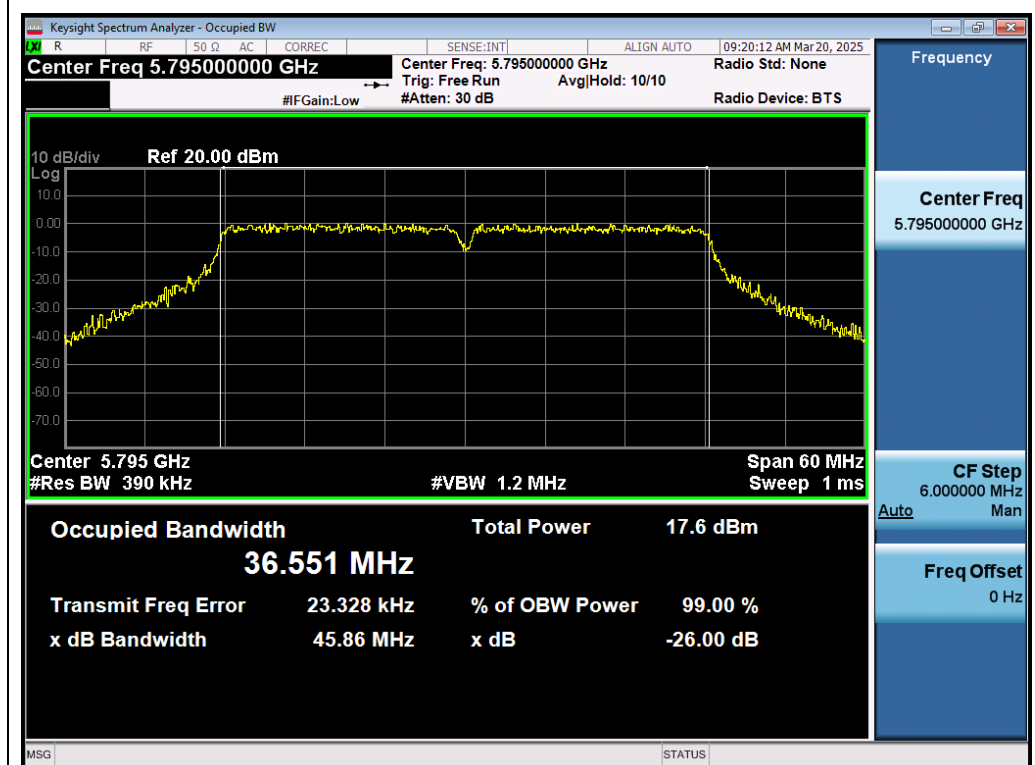
Test_Graph_802.11n20_ANT1_5785_MCS0_OBW



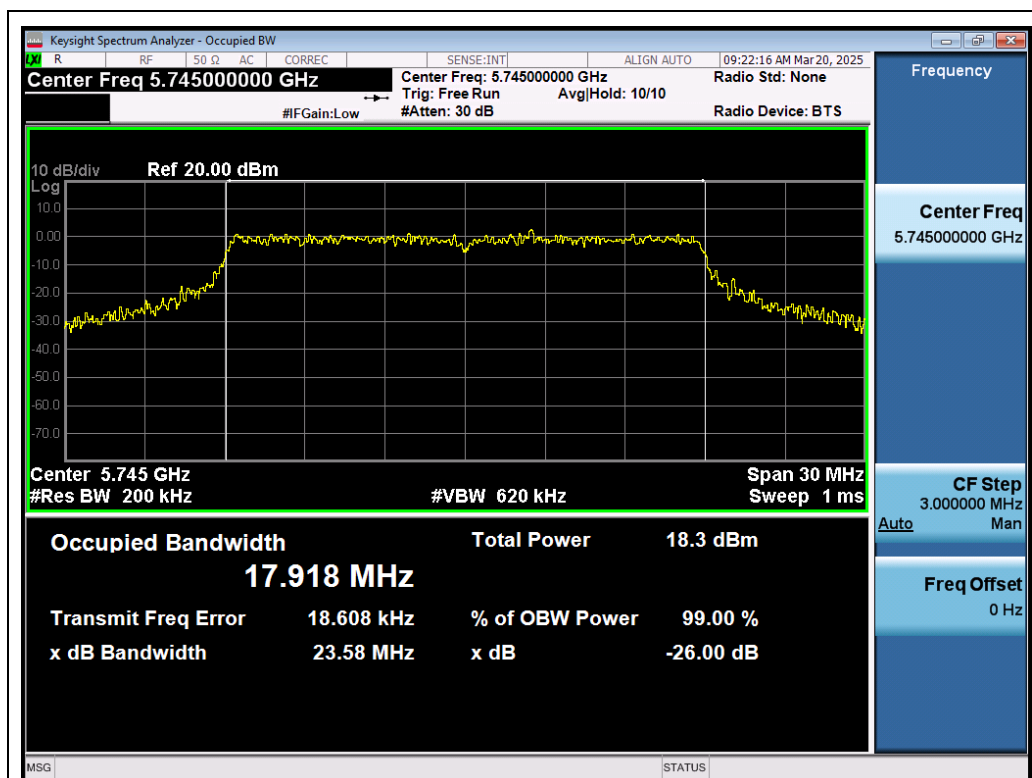
Test_Graph_802.11n20_ANT1_5825_MCS0_OBW



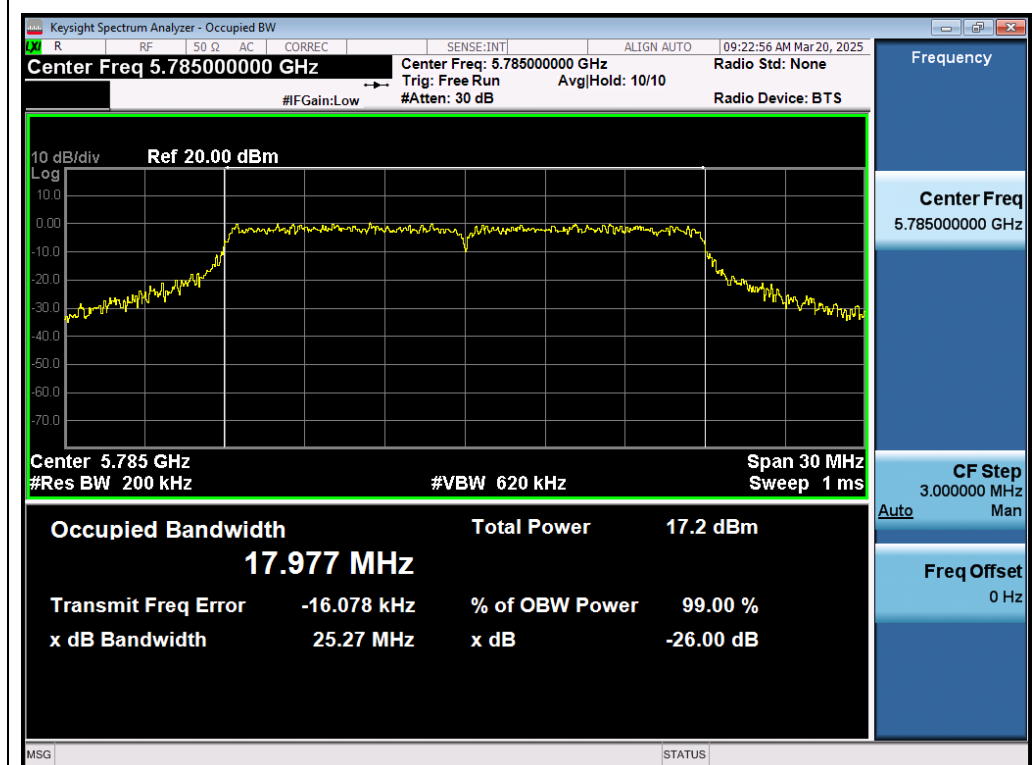
Test_Graph_802.11n40_ANT1_5755_MCS0_OBW



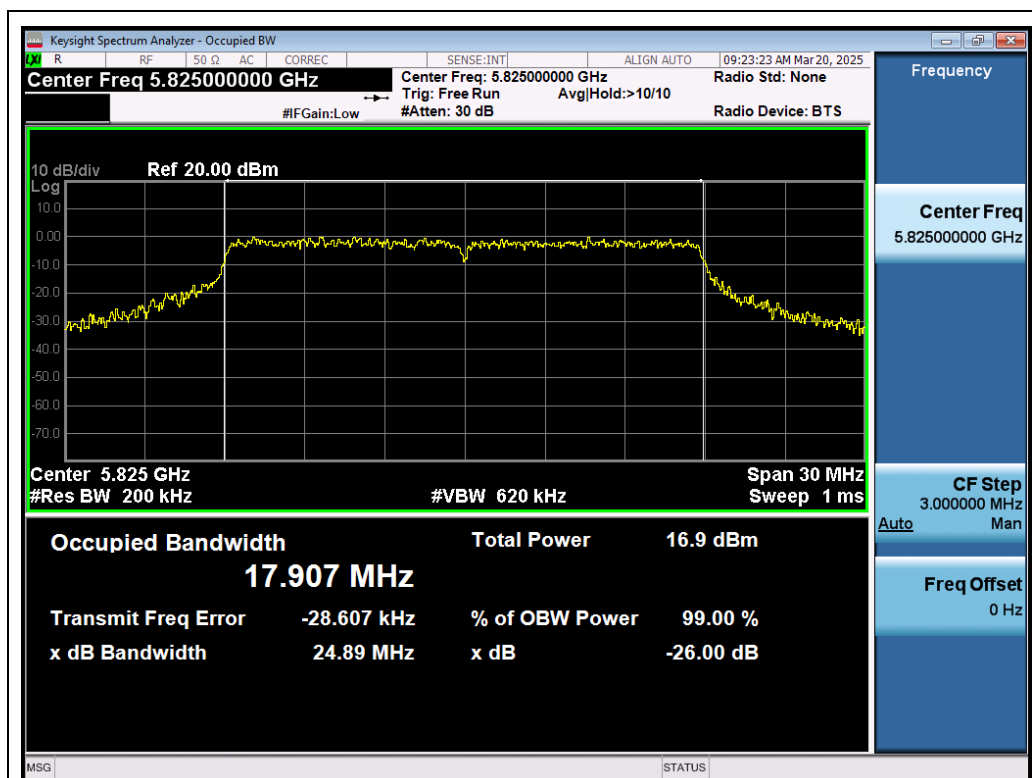
Test_Graph_802.11n40_ANT1_5795_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5745_MCS0_OBW



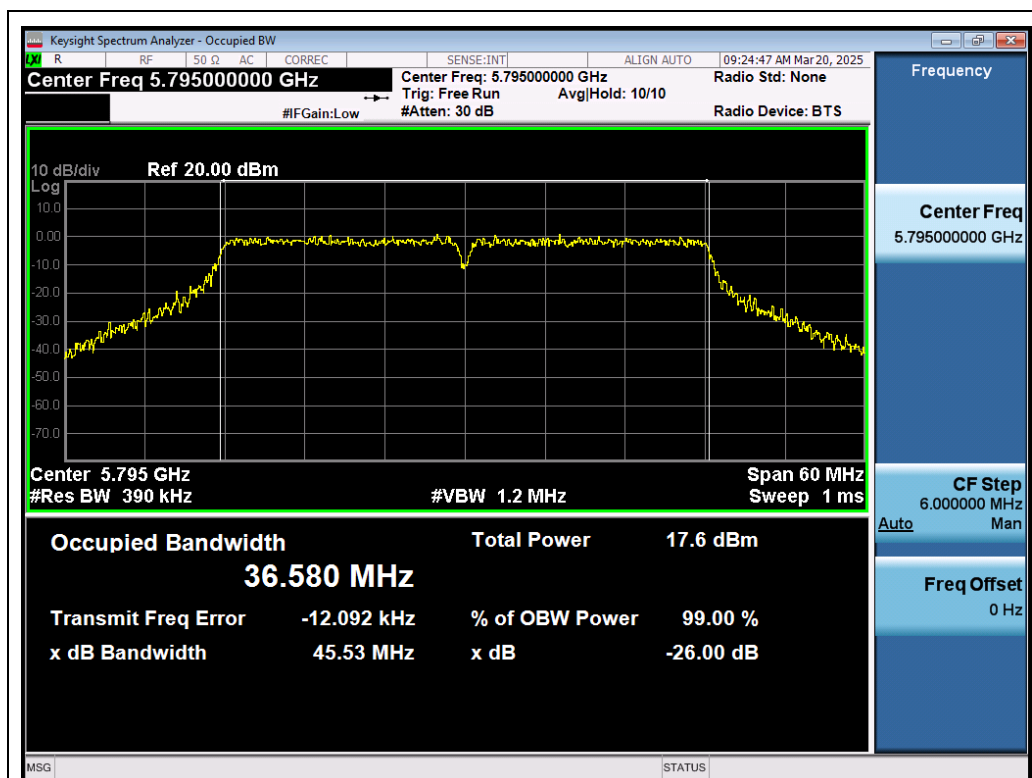
Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5825_MCS0_OBW



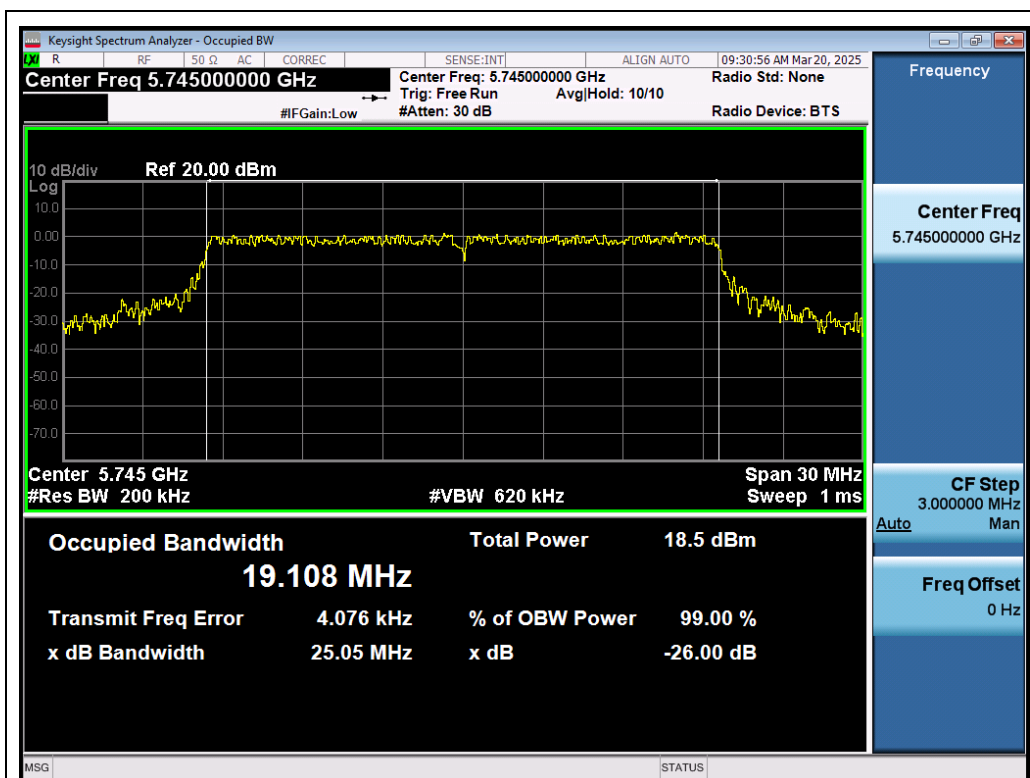
Test_Graph_802.11ac40_ANT1_5755_MCS0_OBW



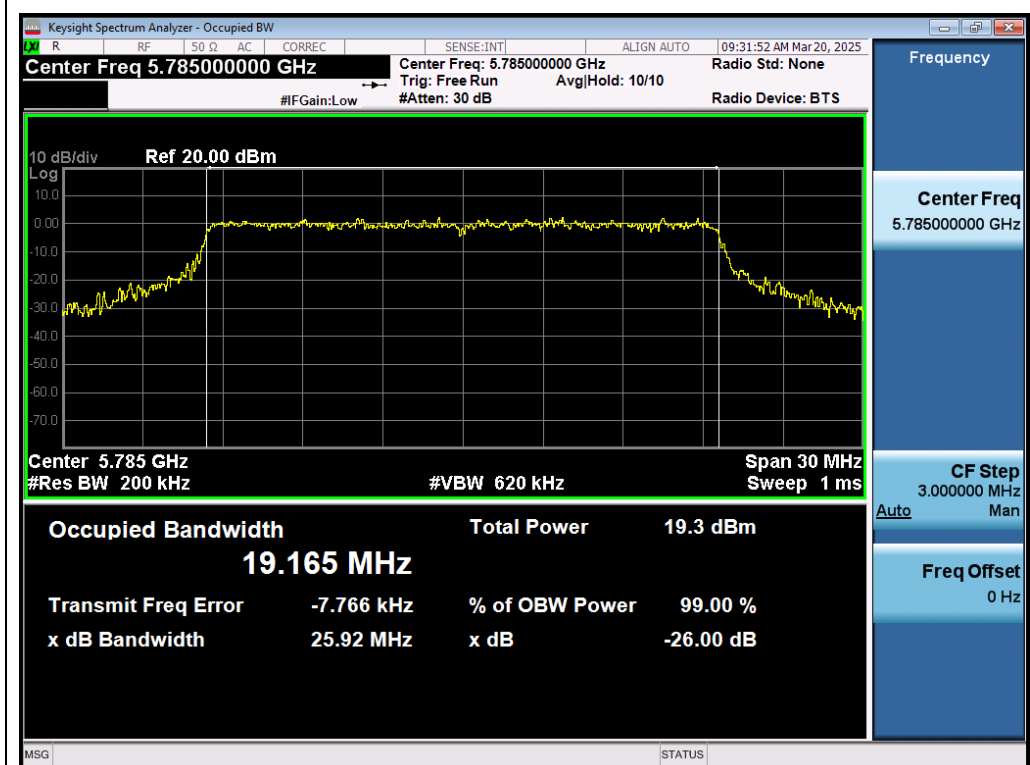
Test_Graph_802.11ac40_ANT1_5795_MCS0_OBW



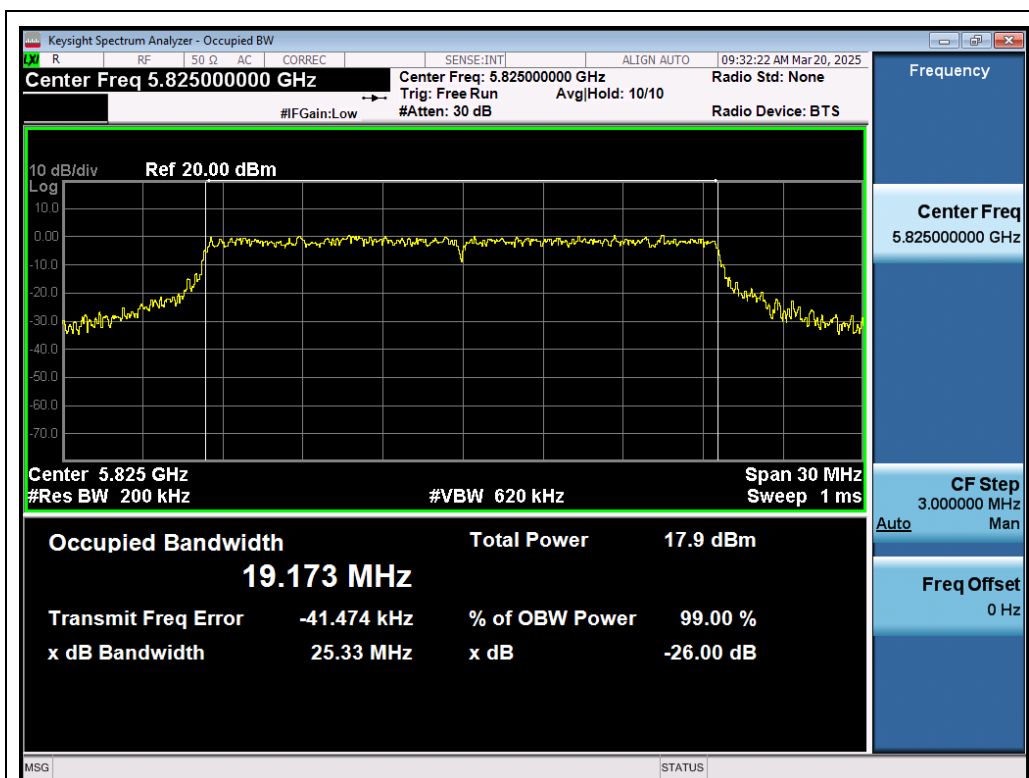
Test_Graph_802.11ac80_ANT1_5775_MCS0_OBW



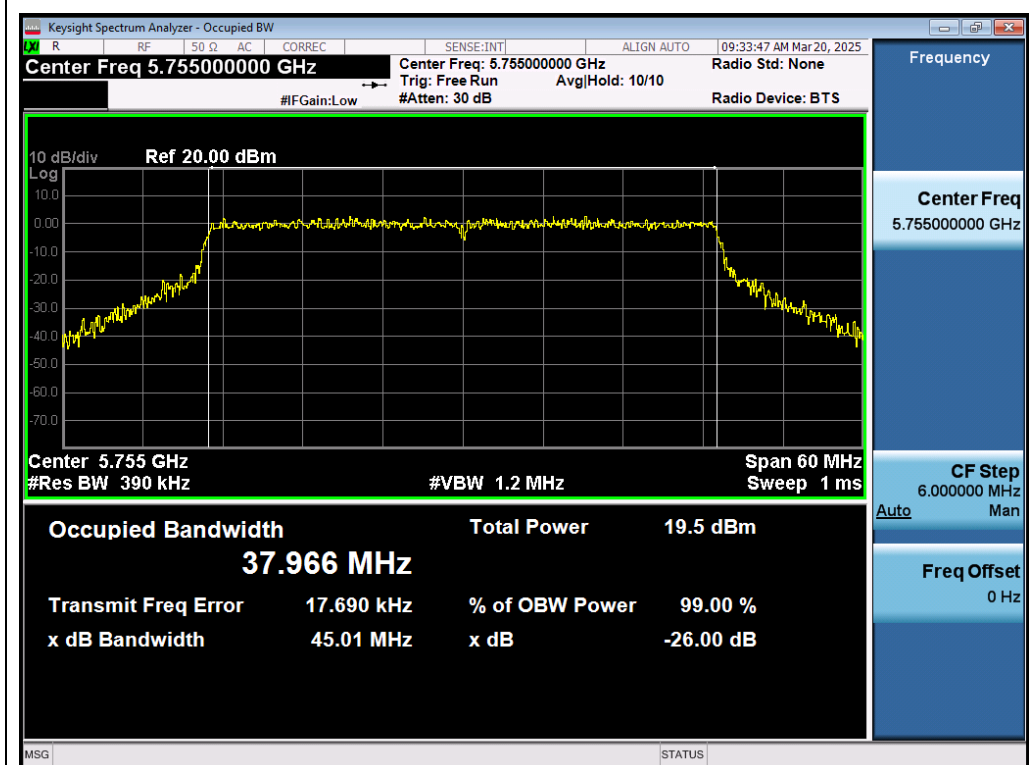
Test_Graph_802.11ax20_ANT1_5745_MCS0_OBW



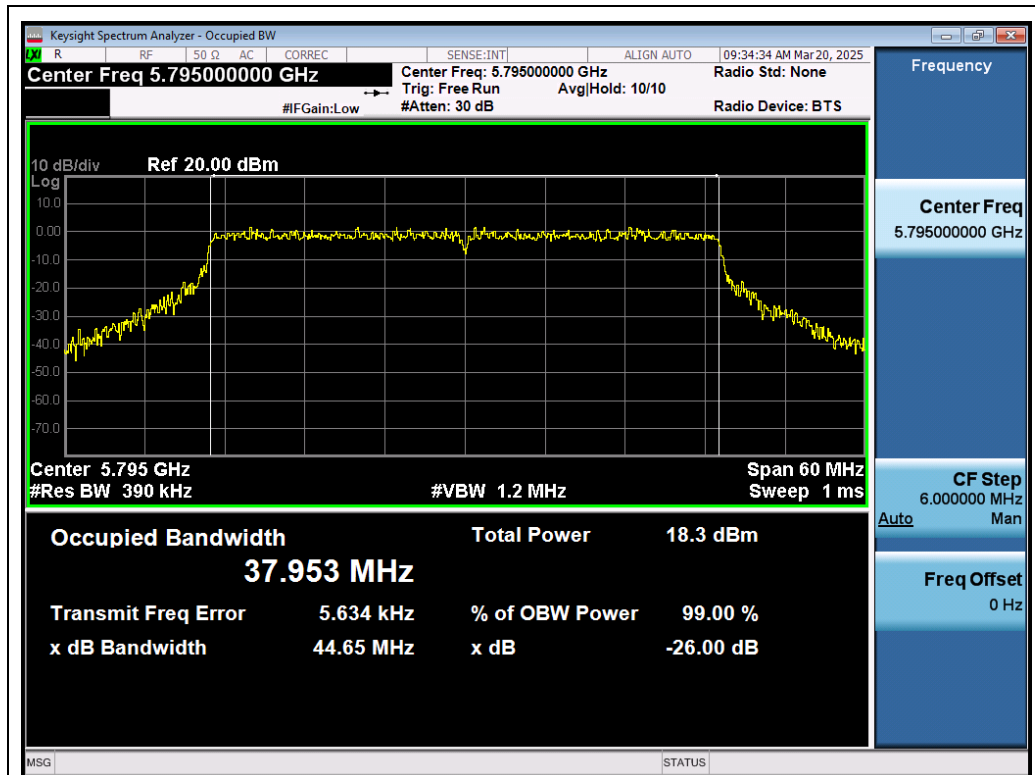
Test_Graph_802.11ax20_ANT1_5785_MCS0_OBW



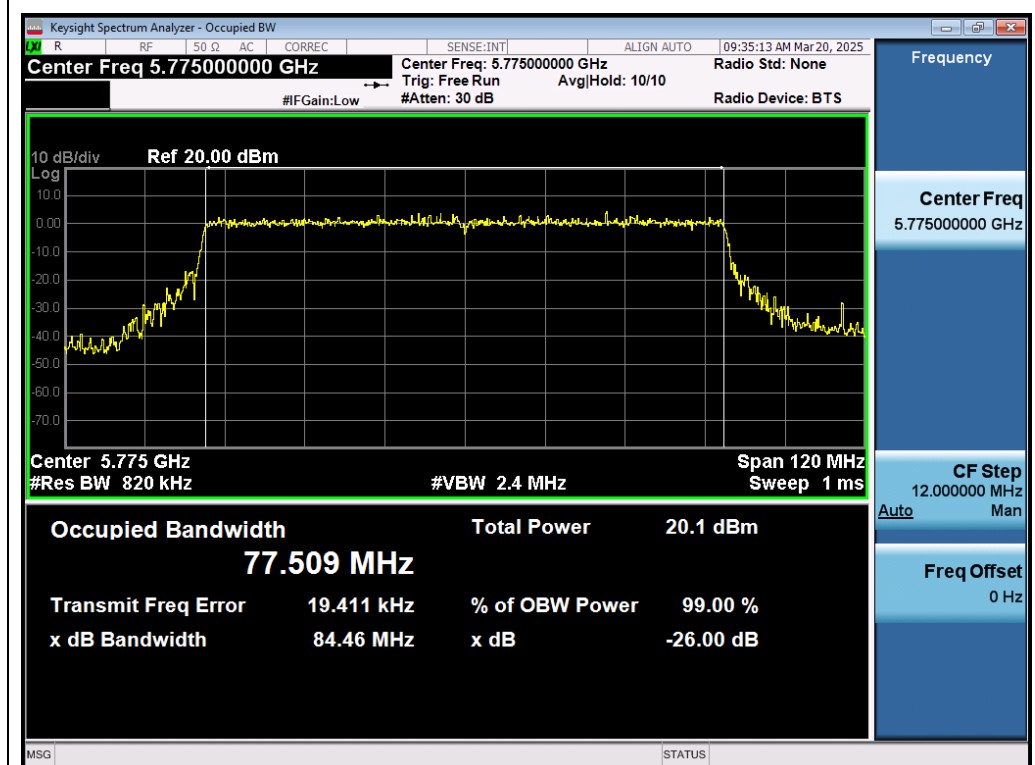
Test_Graph_802.11ax20_ANT1_5825_MCS0_OBW



Test_Graph_802.11ax40_ANT1_5755_MCS0_OBW

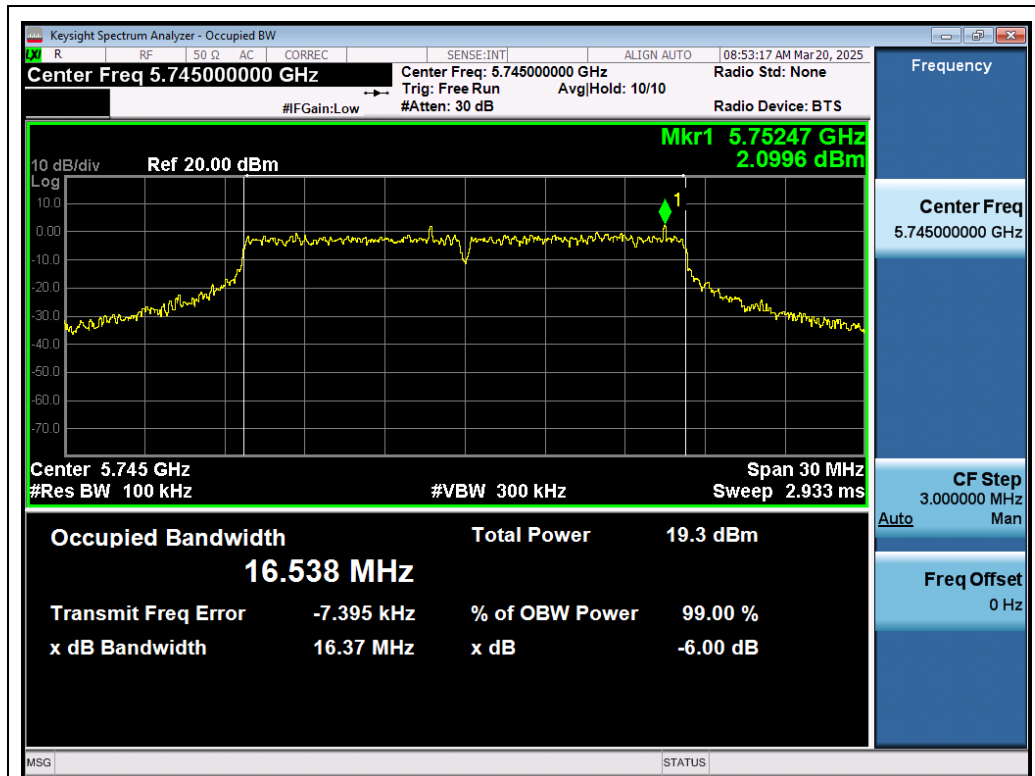


Test_Graph_802.11ax40_ANT1_5795_MCS0_OBW

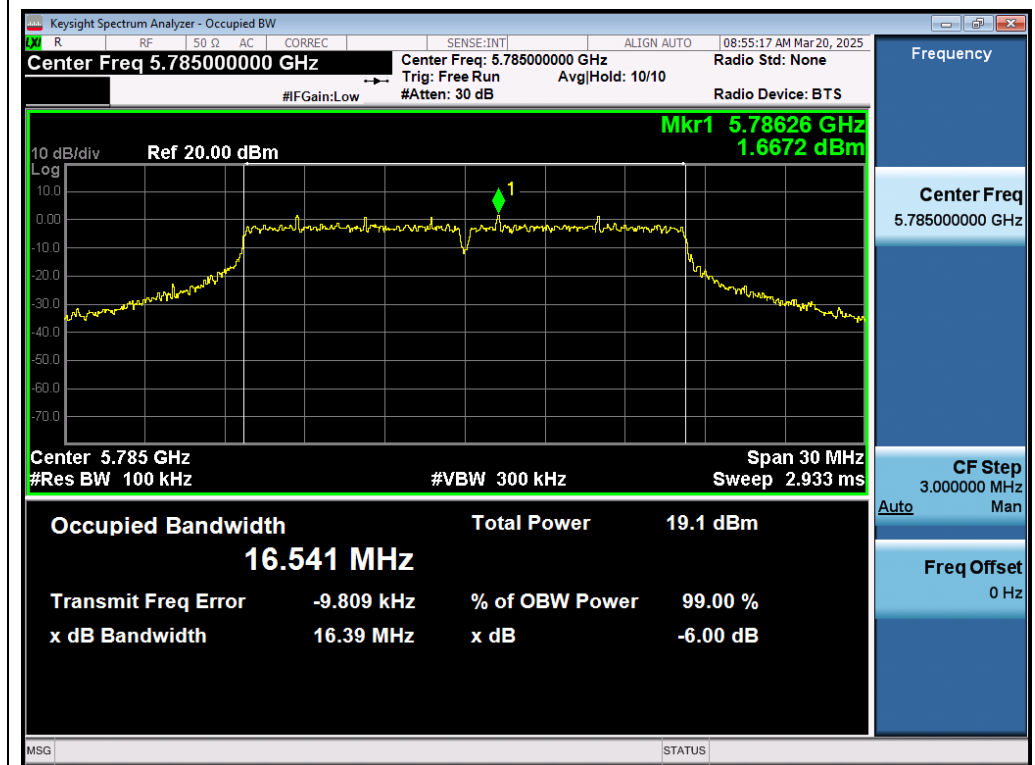


Test_Graph_802.11ax80_ANT1_5775_MCS0_OBW

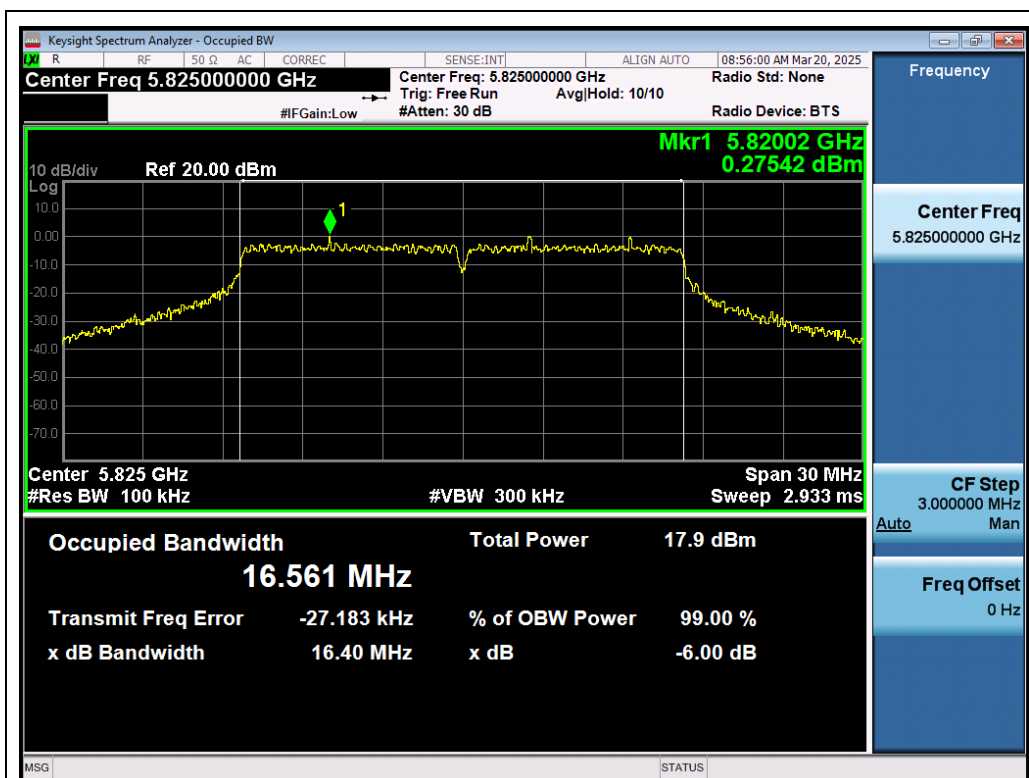
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



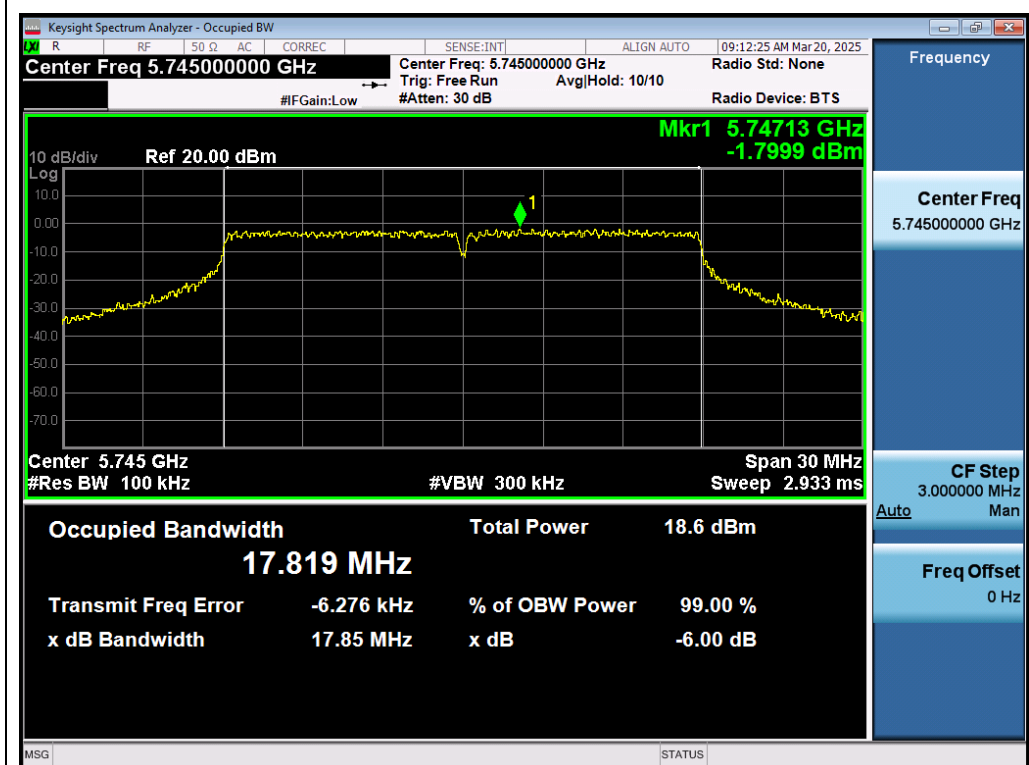
Test_Graph_802.11a_ANT1_5745_6Mbps_DTSSW



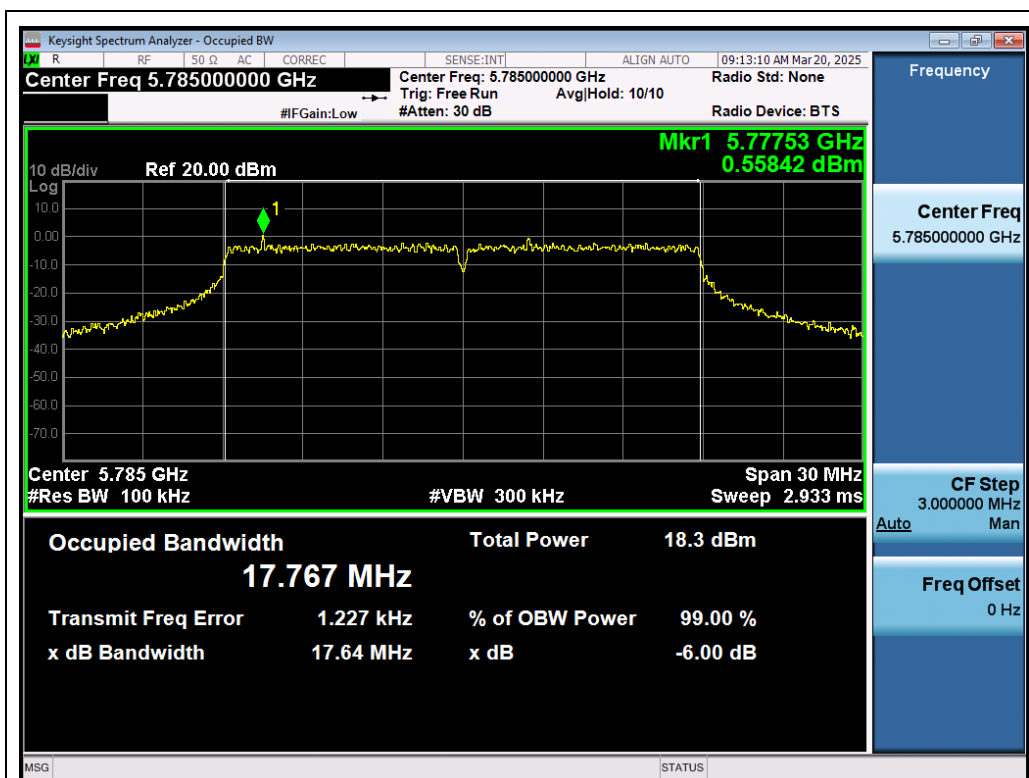
Test_Graph_802.11a_ANT1_5785_6Mbps_DTSSW



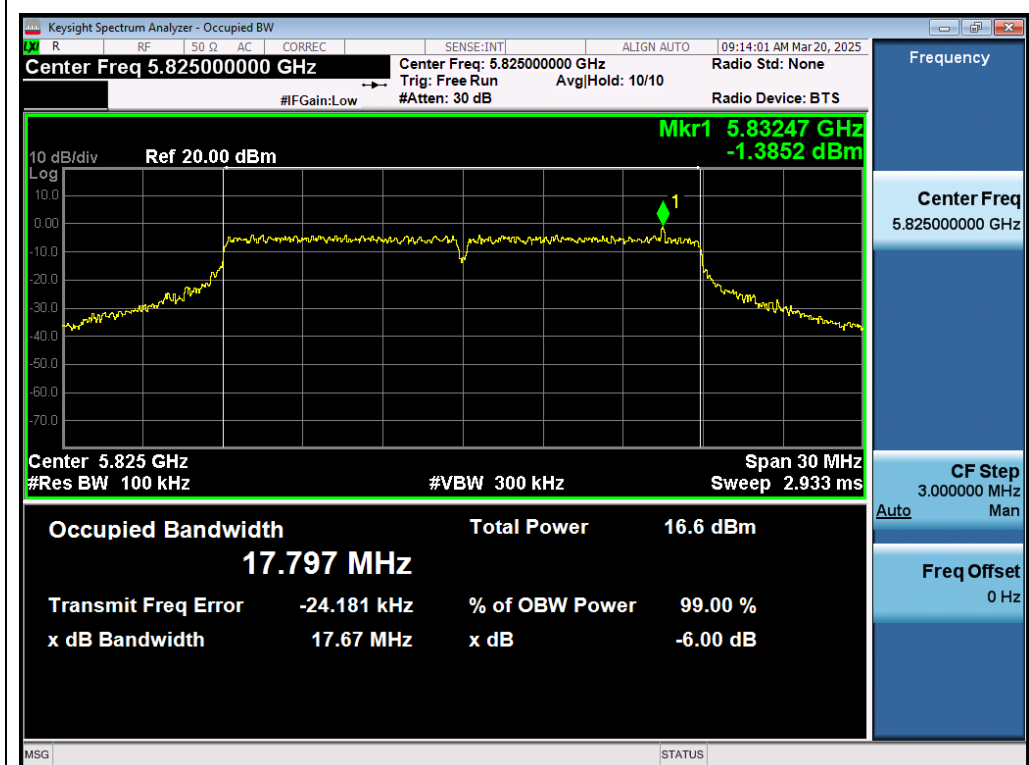
Test_Graph_802.11a_ANT1_5825_6Mbps_DTSBW



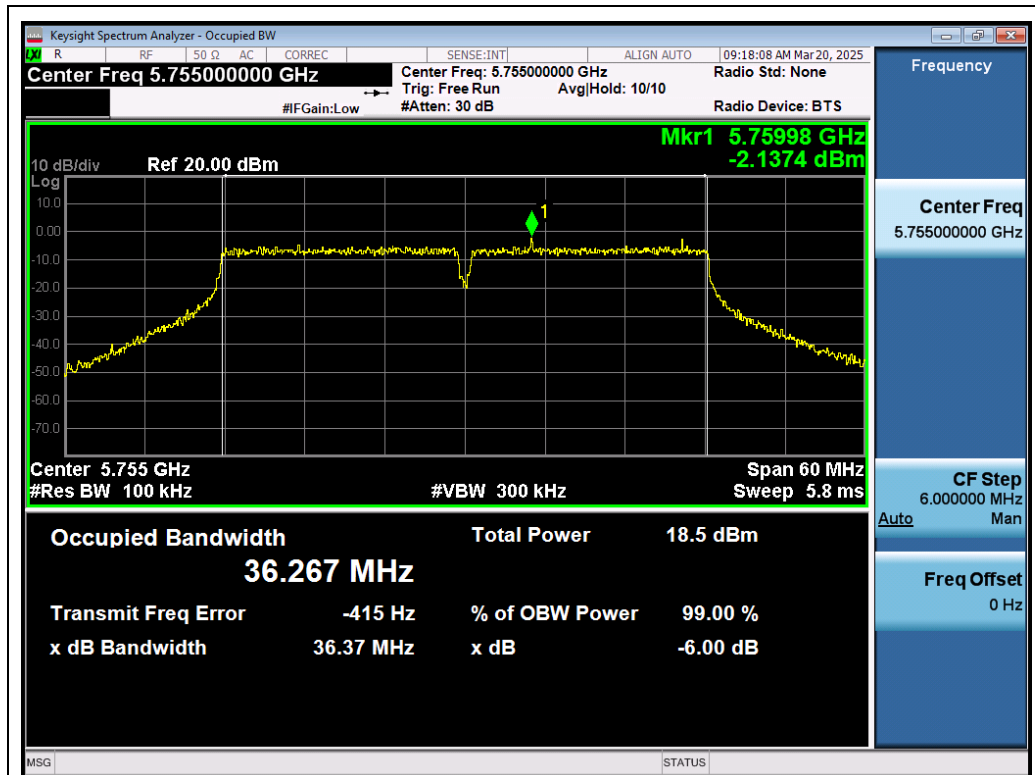
Test_Graph_802.11n20_ANT1_5745_MCS0_DTSBW



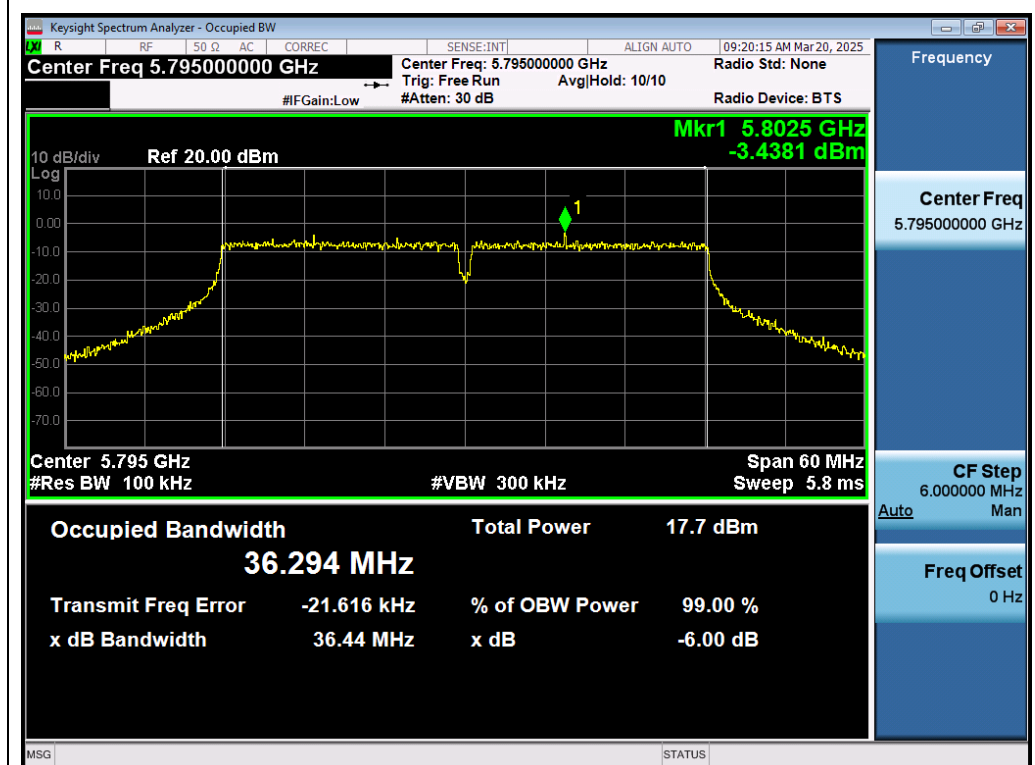
Test_Graph_802.11n20_ANT1_5785_MCS0_DTSBW



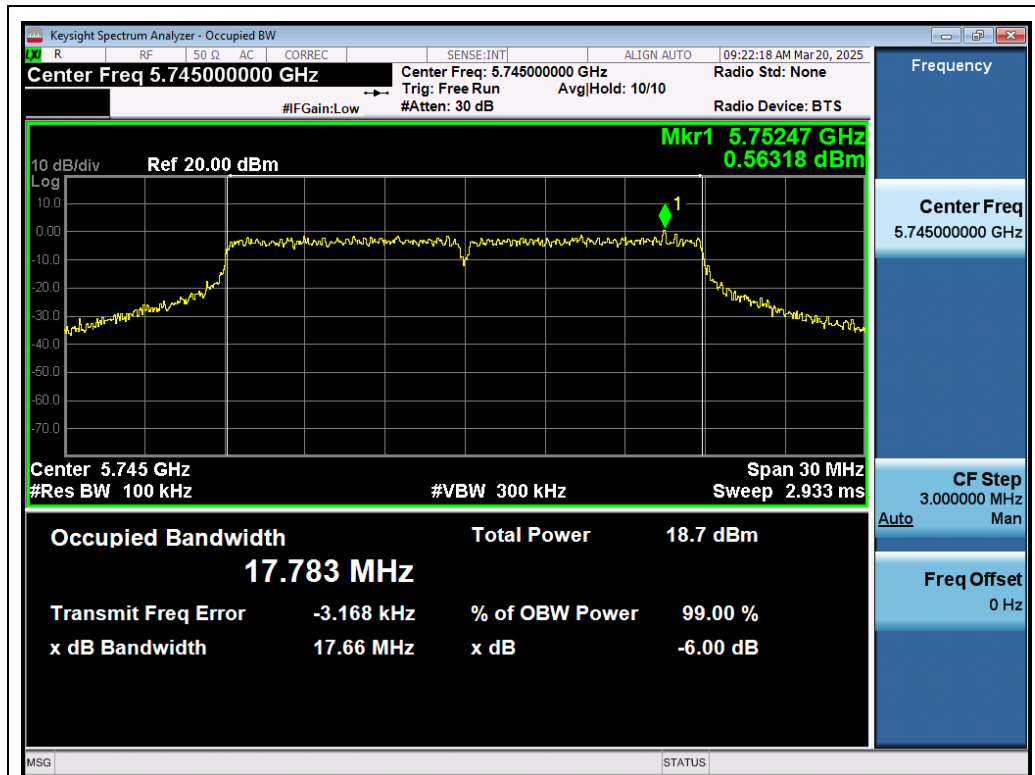
Test_Graph_802.11n20_ANT1_5825_MCS0_DTSBW



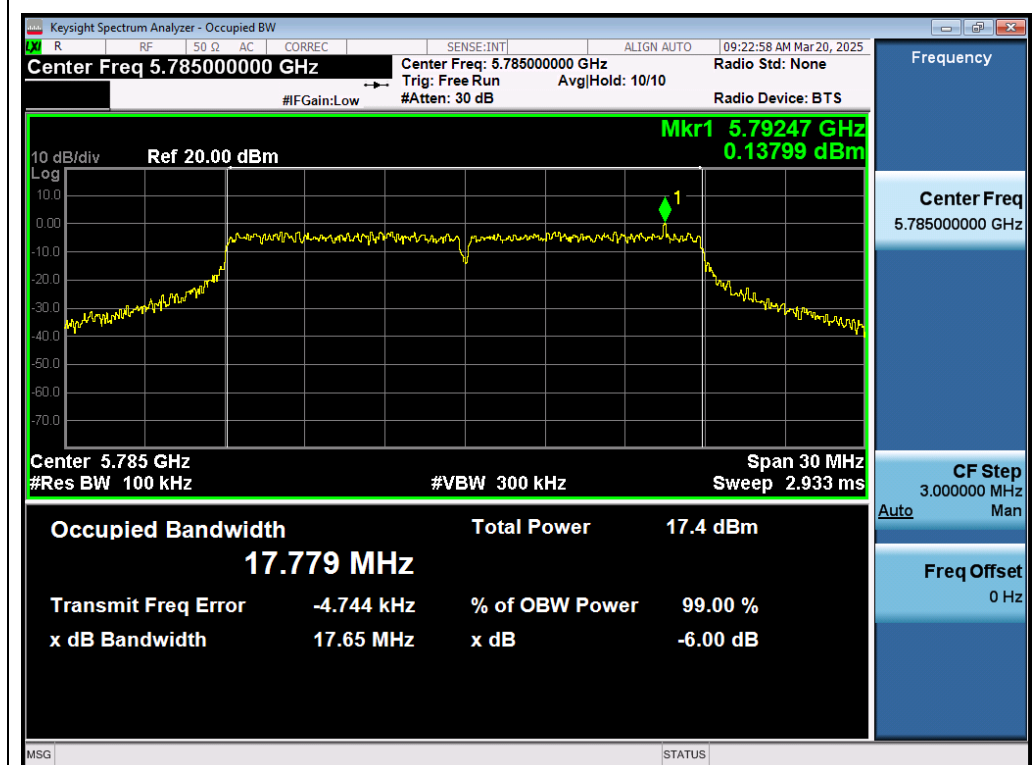
Test_Graph_802.11n40_ANT1_5755_MCS0_DTSBW



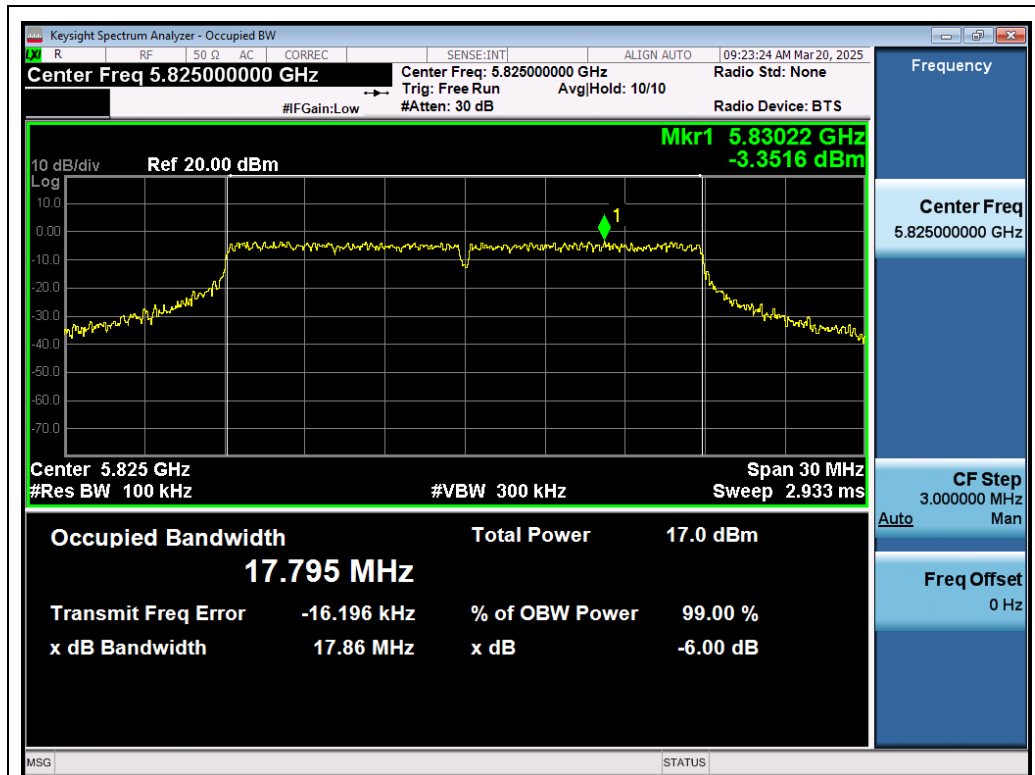
Test_Graph_802.11n40_ANT1_5795_MCS0_DTSBW



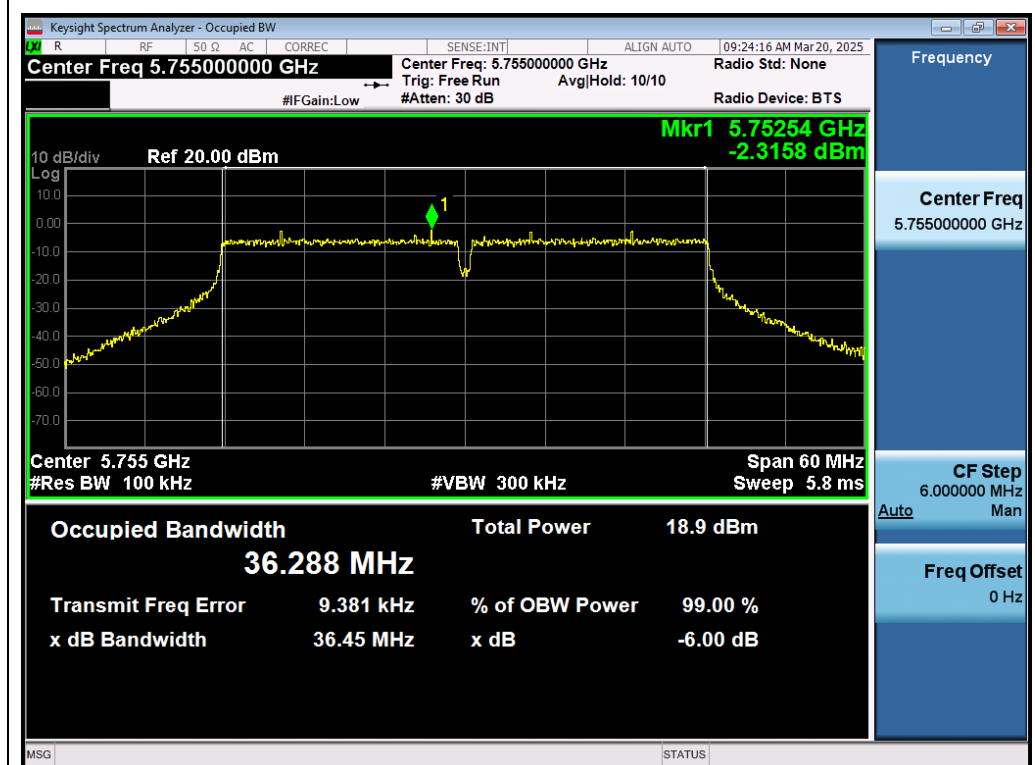
Test_Graph_802.11ac20_ANT1_5745_MCS0_DTSBW



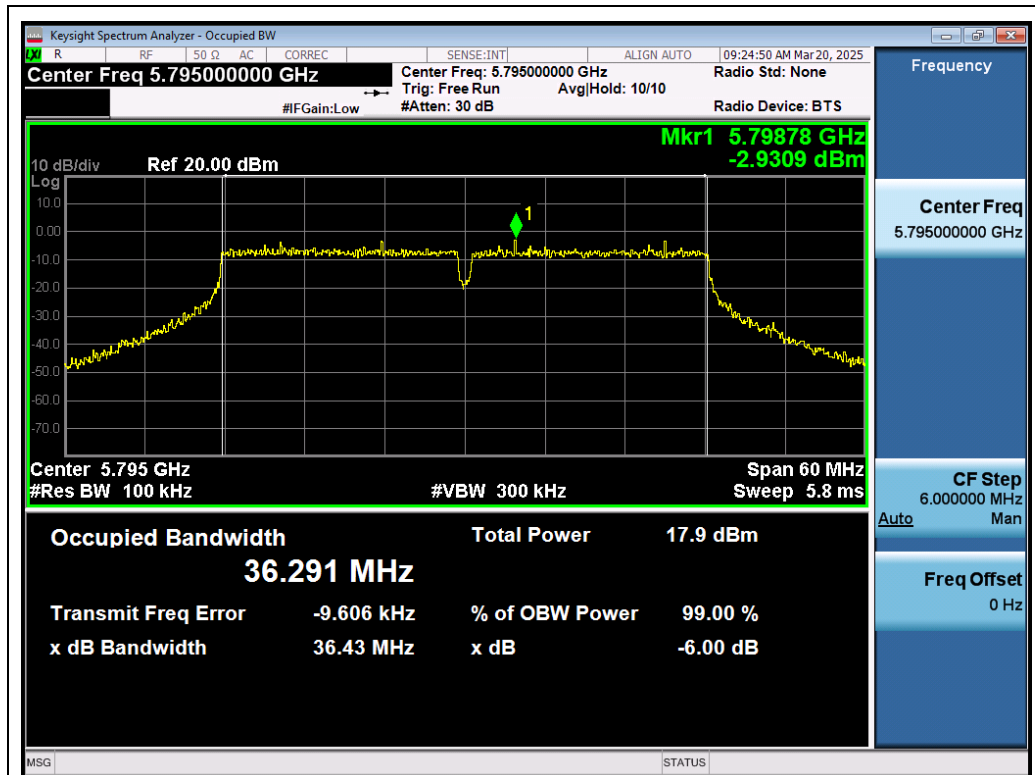
Test_Graph_802.11ac20_ANT1_5785_MCS0_DTSBW



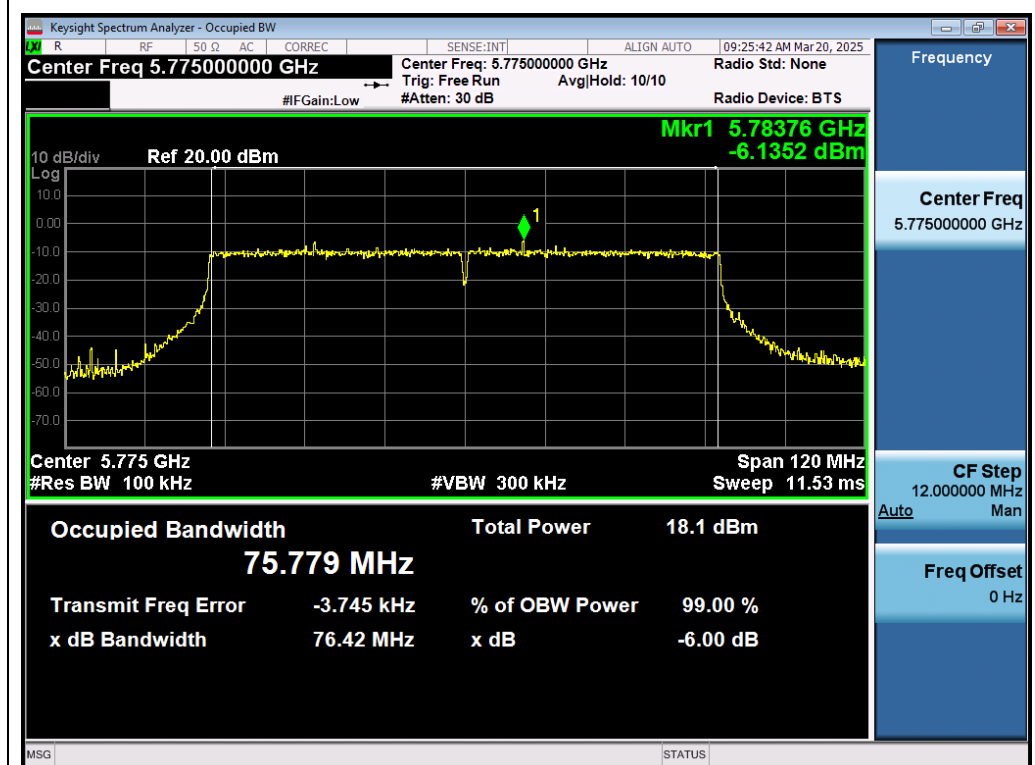
Test_Graph_802.11ac20_ANT1_5825_MCS0_DTSBW



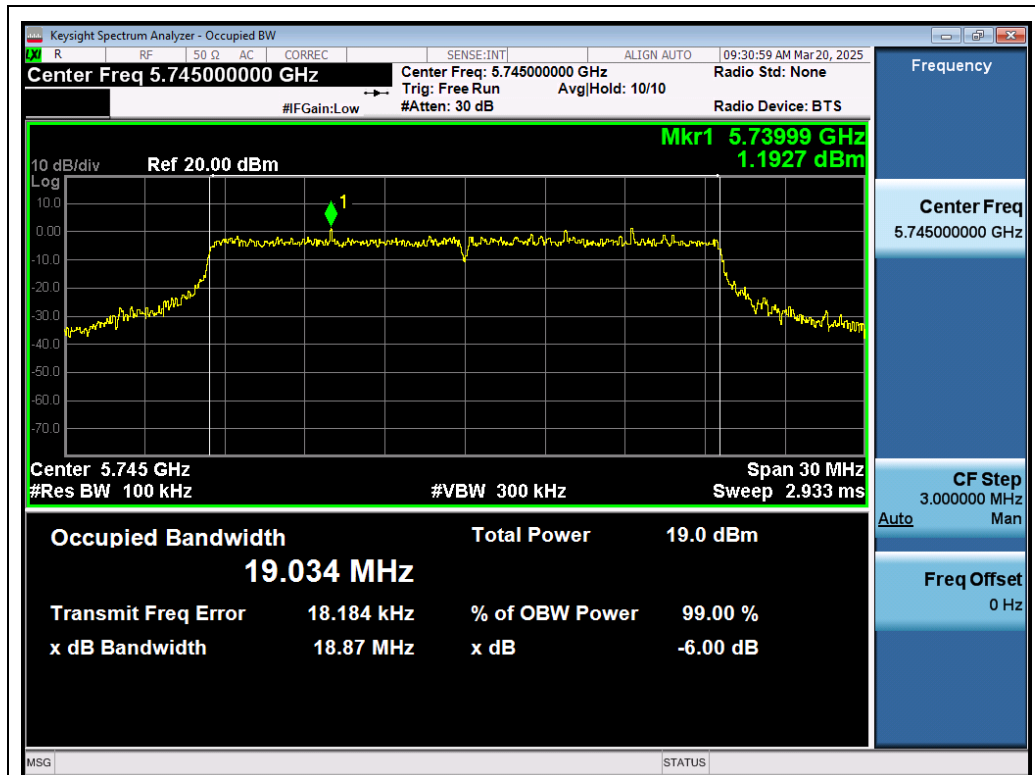
Test_Graph_802.11ac40_ANT1_5755_MCS0_DTSBW



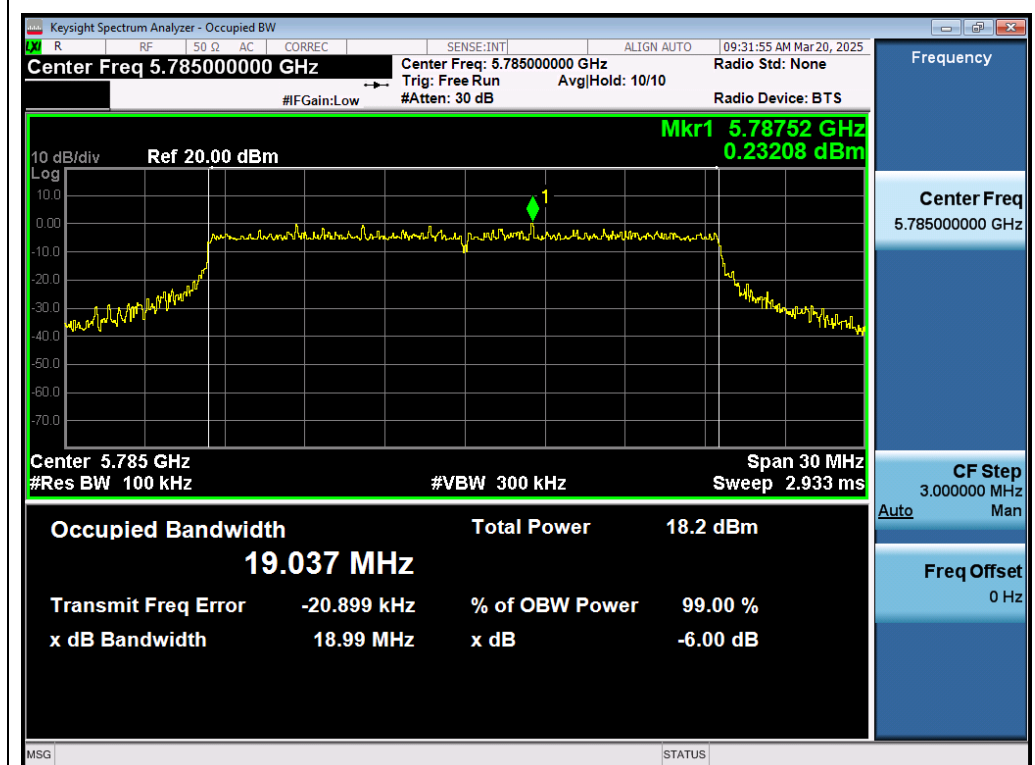
Test_Graph_802.11ac40_ANT1_5795_MCS0_DTSBW



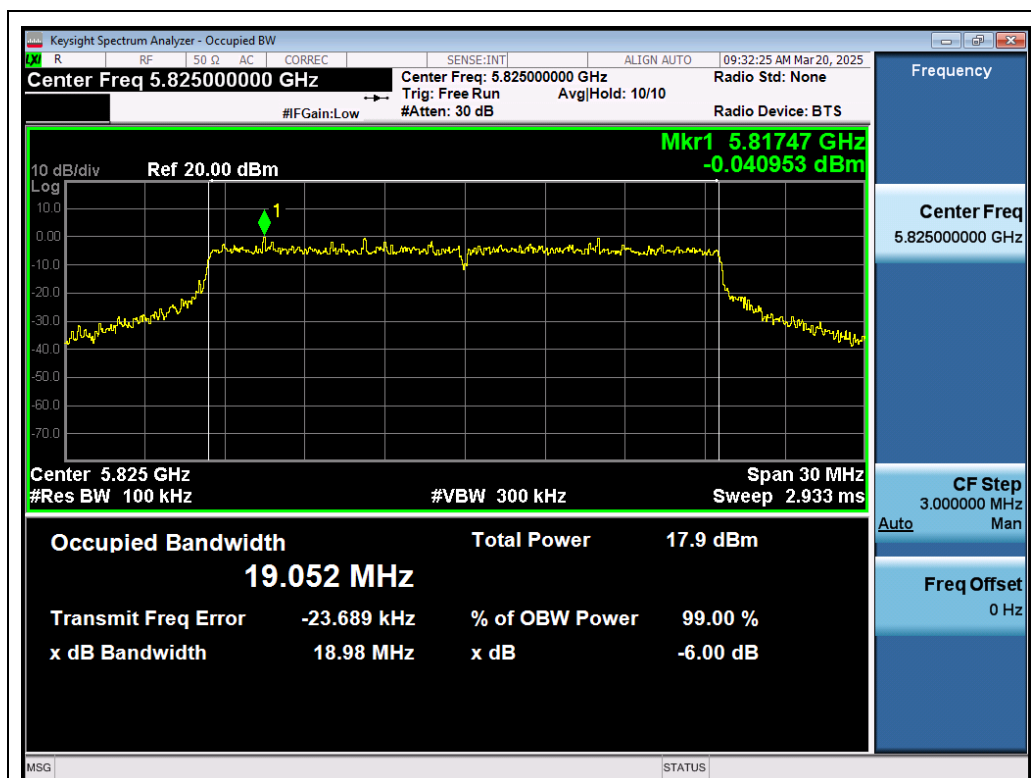
Test_Graph_802.11ac80_ANT1_5775_MCS0_DTSBW



Test_Graph_802.11ax20_ANT1_5745_MCS0_DTSBW



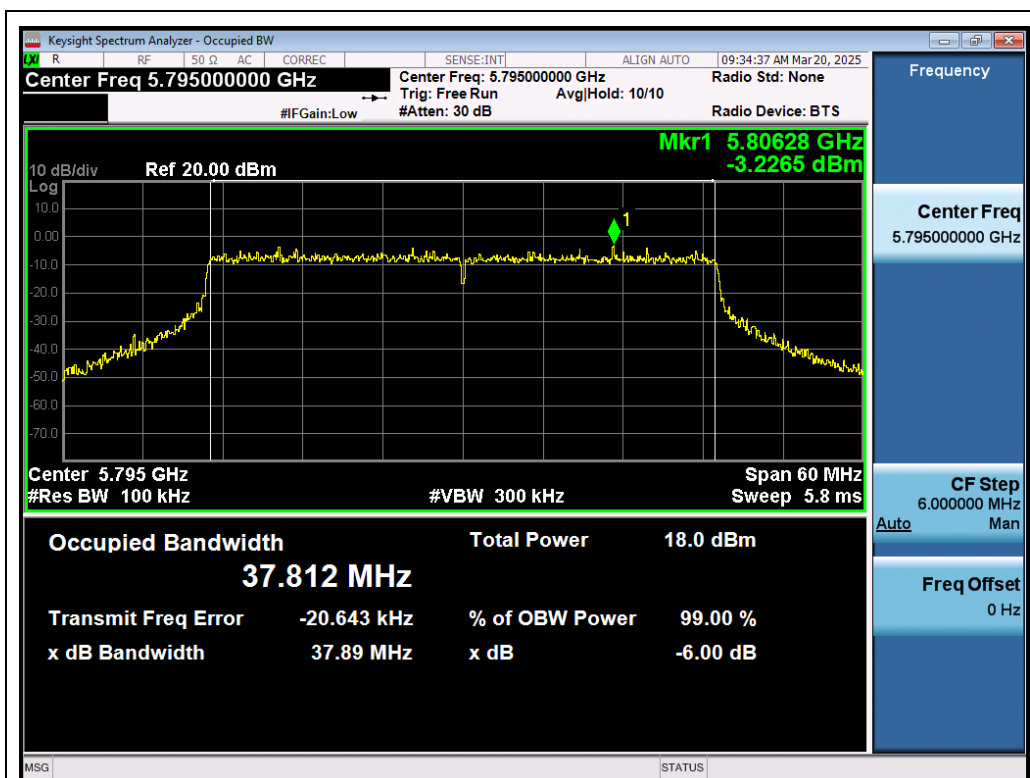
Test_Graph_802.11ax20_ANT1_5785_MCS0_DTSBW



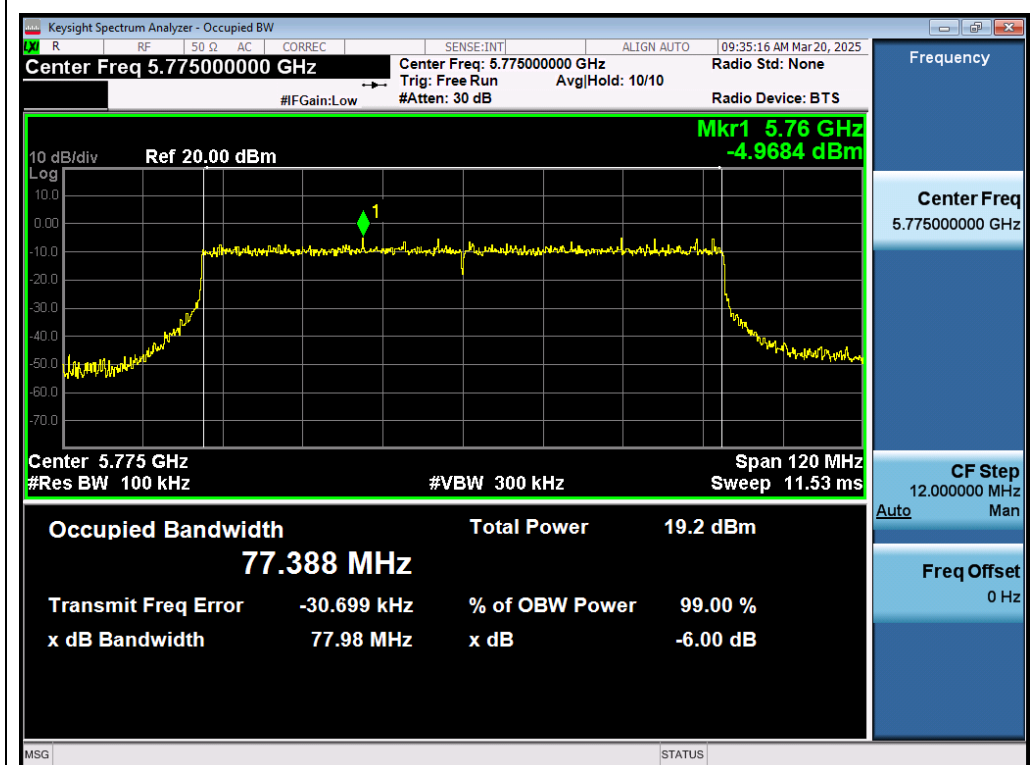
Test_Graph_802.11ax20_ANT1_5825_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_5755_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_5795_MCS0_DTSBW



Test_Graph_802.11ax80_ANT1_5775_MCS0_DTSBW

Appendix B: Maximum conducted output power

Test Result

Test Data of Conducted Output Power for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5180	12.89	23.98	Pass
	5200	13.59	23.98	Pass
	5240	13.75	23.98	Pass
802.11n20	5180	12.26	23.98	Pass
	5200	12.43	23.98	Pass
	5240	13.17	23.98	Pass
802.11n40	5190	12.41	23.98	Pass
	5230	12.68	23.98	Pass
802.11ac20	5180	12.17	23.98	Pass
	5200	12.87	23.98	Pass
	5240	13.02	23.98	Pass
802.11ac40	5190	12.35	23.98	Pass
	5230	13.08	23.98	Pass
802.11ac80	5210	12.49	23.98	Pass
802.11ax20	5180	12.69	23.98	Pass
	5200	12.73	23.98	Pass
	5240	13.15	23.98	Pass
802.11ax40	5190	12.93	23.98	Pass
	5230	13.03	23.98	Pass
802.11ax80	5210	13.14	23.98	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5260	13.85	23.98	Pass
	5300	13.73	23.98	Pass
	5320	13.36	23.98	Pass
802.11n20	5260	13.05	23.98	Pass
	5300	12.83	23.98	Pass
	5320	12.84	23.98	Pass
802.11n40	5270	12.82	23.98	Pass
	5310	12.43	23.98	Pass
802.11ac20	5260	12.93	23.98	Pass
	5300	12.36	23.98	Pass
	5320	12.76	23.98	Pass
802.11ac40	5270	12.50	23.98	Pass
	5310	12.98	23.98	Pass
802.11ac80	5290	12.74	23.98	Pass
802.11ax20	5260	12.47	23.98	Pass
	5300	12.73	23.98	Pass
	5320	12.77	23.98	Pass
802.11ax40	5270	12.55	23.98	Pass
	5310	12.48	23.98	Pass
802.11ax80	5290	13.01	23.98	Pass

Test Data of Conducted Output Power for band 5.470-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5500	13.11	23.98	Pass
	5580	12.29	23.98	Pass
	5700	12.52	23.98	Pass
802.11n20	5500	11.03	23.98	Pass
	5580	11.47	23.98	Pass
	5700	11.45	23.98	Pass
802.11n40	5510	11.19	23.98	Pass
	5590	11.70	23.98	Pass
	5670	11.35	23.98	Pass
802.11ac20	5500	12.00	23.98	Pass
	5580	11.84	23.98	Pass
	5700	11.48	23.98	Pass
802.11ac40	5510	11.03	23.98	Pass
	5590	11.82	23.98	Pass
	5670	11.37	23.98	Pass
802.11ac80	5530	11.87	23.98	Pass
	5610	11.62	23.98	Pass
802.11ax20	5500	11.11	23.98	Pass
	5580	12.07	23.98	Pass
	5700	11.51	23.98	Pass
802.11ax40	5510	12.09	23.98	Pass
	5590	11.89	23.98	Pass
	5670	11.03	23.98	Pass
802.11ax80	5530	11.04	23.98	Pass
	5610	11.47	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.850 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Result
802.11a	5745	13.71	30	Pass
	5785	12.94	30	Pass
	5825	11.57	30	Pass
802.11n20	5745	12.49	30	Pass
	5785	12.05	30	Pass
	5825	10.96	30	Pass
802.11n40	5755	12.80	30	Pass
	5795	12.13	30	Pass
802.11ac20	5745	13.21	30	Pass
	5785	11.91	30	Pass
	5825	11.31	30	Pass
802.11ac40	5755	12.72	30	Pass
	5795	12.02	30	Pass
802.11ac80	5775	12.83	30	Pass
802.11ax20	5745	12.73	30	Pass
	5785	12.28	30	Pass
	5825	11.39	30	Pass
802.11ax40	5755	13.04	30	Pass
	5795	12.19	30	Pass
802.11ax80	5775	12.50	30	Pass

Note: The Duty Cycle Factor is compensated in the result.

Appendix C: Maximum power spectral density

Test 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)	Result
802.11a	5180	2.548	11	Pass
	5200	2.807	11	Pass
	5240	2.890	11	Pass
802.11n20	5180	1.346	11	Pass
	5200	1.392	11	Pass
	5240	2.252	11	Pass
802.11n40	5190	-1.779	11	Pass
	5230	-1.106	11	Pass
802.11ac20	5180	1.432	11	Pass
	5200	1.758	11	Pass
	5240	1.910	11	Pass
802.11ac40	5190	-1.632	11	Pass
	5230	-1.126	11	Pass
802.11ac80	5210	-4.386	11	Pass
802.11ax20	5180	1.171	11	Pass
	5200	1.297	11	Pass
	5240	1.784	11	Pass
802.11ax40	5190	-1.411	11	Pass
	5230	-1.287	11	Pass
802.11ax80	5210	-4.225	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)	Result
802.11a	5260	2.884	11	Pass
	5300	2.885	11	Pass
	5320	2.295	11	Pass
802.11n20	5260	1.652	11	Pass
	5300	1.673	11	Pass
	5320	1.648	11	Pass
802.11n40	5270	-1.326	11	Pass
	5310	-1.555	11	Pass
802.11ac20	5260	1.768	11	Pass
	5300	1.348	11	Pass
	5320	1.422	11	Pass
802.11ac40	5270	-1.800	11	Pass
	5310	-1.155	11	Pass
802.11ac80	5290	-4.558	11	Pass
802.11ax20	5260	1.397	11	Pass
	5300	1.467	11	Pass
	5320	1.469	11	Pass
802.11ax40	5270	-1.496	11	Pass
	5310	-1.197	11	Pass
802.11ax80	5290	-4.402	11	Pass

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)	Result
802.11a	5500	0.988	11	Pass
	5600	2.111	11	Pass
	5700	1.398	11	Pass
802.11n20	5500	0.171	11	Pass
	5600	-0.095	11	Pass
	5700	-0.173	11	Pass
802.11n40	5510	-2.912	11	Pass
	5590	-3.157	11	Pass
	5670	-3.143	11	Pass
802.11ac20	5500	0.325	11	Pass
	5600	0.015	11	Pass
	5700	0.082	11	Pass
802.11ac40	5510	-3.304	11	Pass
	5590	-2.919	11	Pass
	5670	-3.346	11	Pass
802.11ac80	5530	-6.036	11	Pass
	5610	-6.373	11	Pass
802.11ax20	5500	-0.607	11	Pass
	5600	0.042	11	Pass
	5700	-0.212	11	Pass
802.11ax40	5510	-2.848	11	Pass
	5590	-2.947	11	Pass
	5670	-3.400	11	Pass
802.11ax80	5530	-5.954	11	Pass
	5610	-6.541	11	Pass

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)	Result
802.11a	5745	-6.674	0.516	30	Pass
	5785	-7.476	-0.486	30	Pass
	5825	-8.406	-1.416	30	Pass
802.11n20	5745	-8.060	-1.070	30	Pass
	5785	-8.454	-1.464	30	Pass
	5825	-9.665	-2.675	30	Pass
802.11n40	5755	-10.879	-3.889	30	Pass
	5795	-11.884	-4.894	30	Pass
802.11ac20	5745	-7.604	-0.614	30	Pass
	5785	-8.476	-1.486	30	Pass
	5825	-9.329	-2.339	30	Pass
802.11ac40	5755	-10.811	-3.821	30	Pass
	5795	-11.883	-4.893	30	Pass
802.11ac80	5775	-14.551	-7.561	30	Pass
802.11ax20	5745	-8.751	-1.761	30	Pass
	5785	-9.559	-2.569	30	Pass
	5825	-10.402	-3.412	30	Pass
802.11ax40	5755	-11.912	-4.922	30	Pass
	5795	-12.665	-5.675	30	Pass
802.11ax80	5775	-15.604	-8.614	30	Pass

Note:

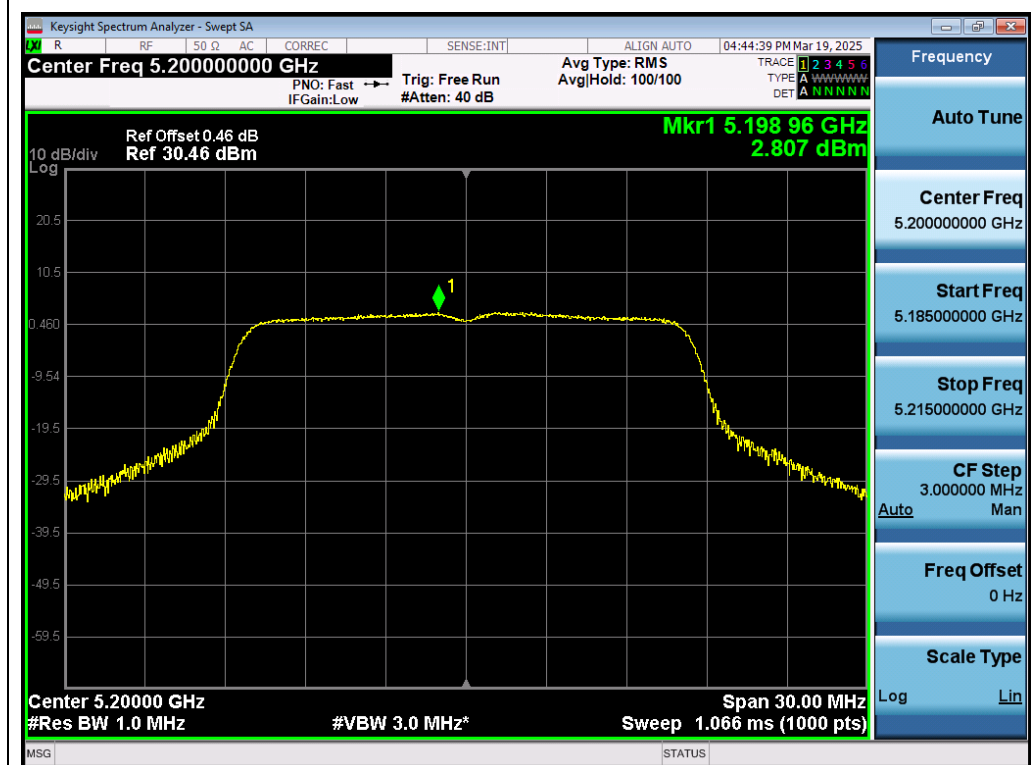
1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor is compensated in the result. Ref Offset is The Duty Cycle Factor.
3. $\text{Power density(dBm/500kHz)} = \text{Power density(dBm/100kHz)} + 10 \cdot \log(500/100)$.

Test Graphs

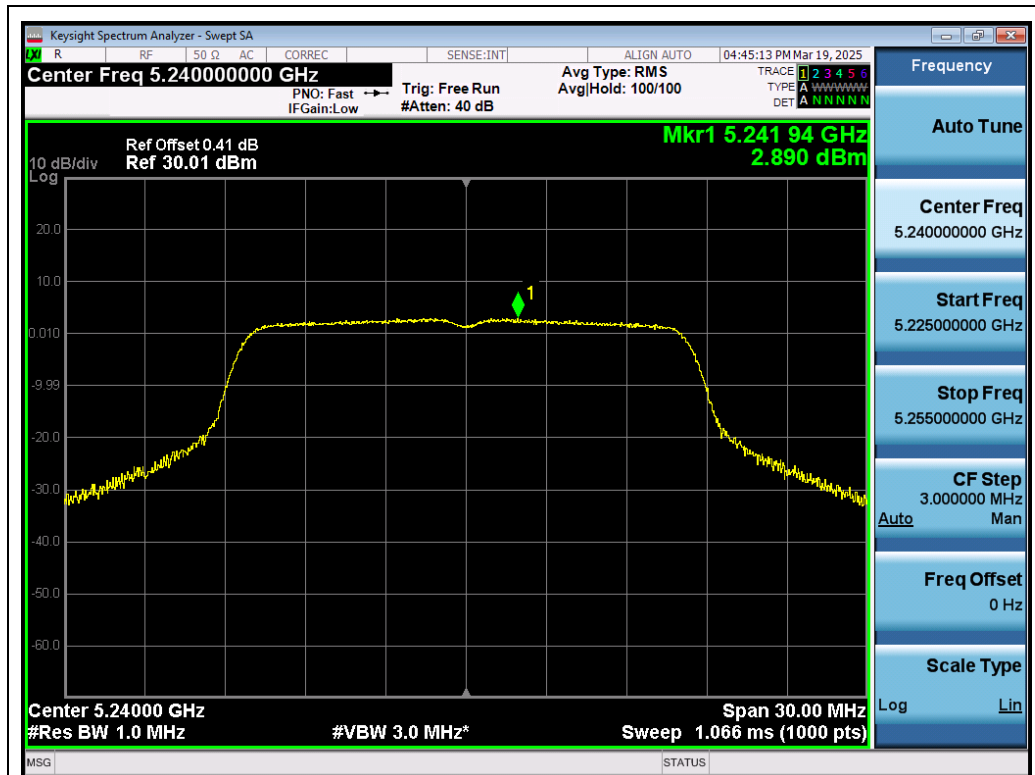
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



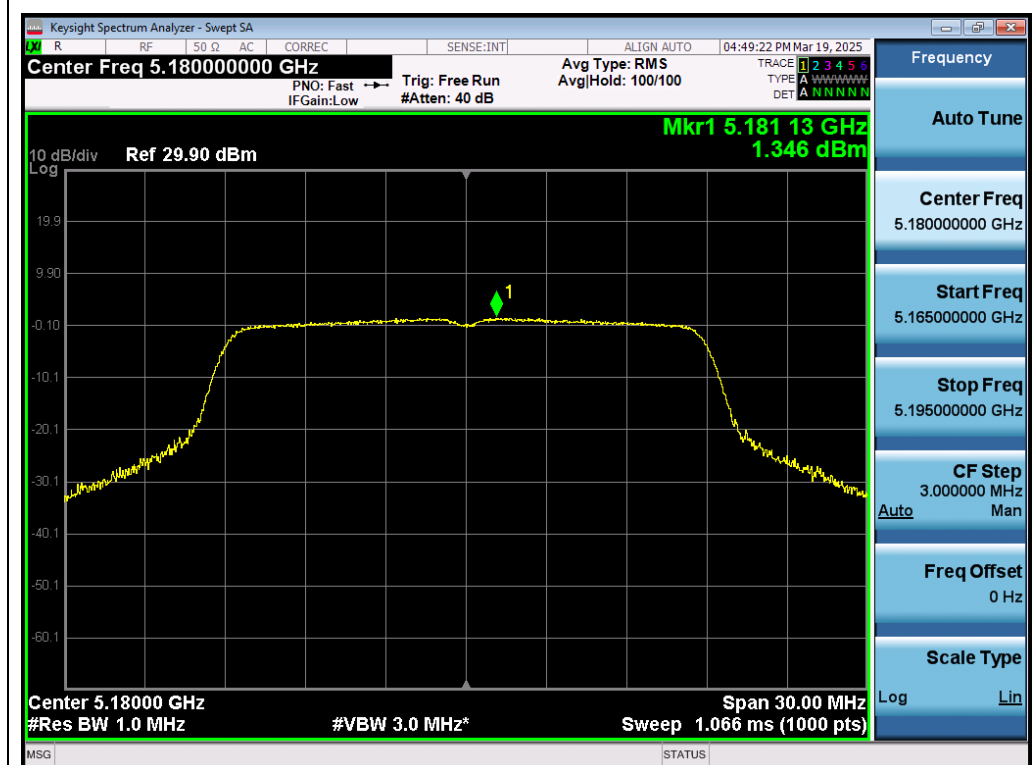
Test_Graph_802.11a_ANT1_5180_6Mbps_PSD



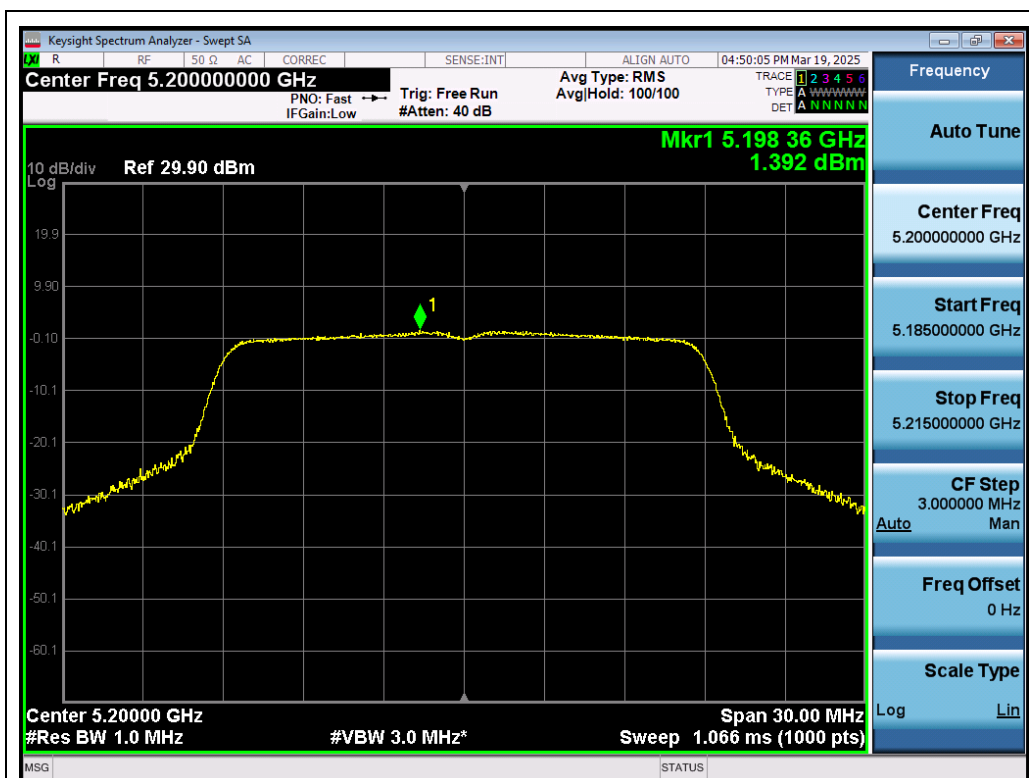
Test_Graph_802.11a_ANT1_5200_6Mbps_PSD



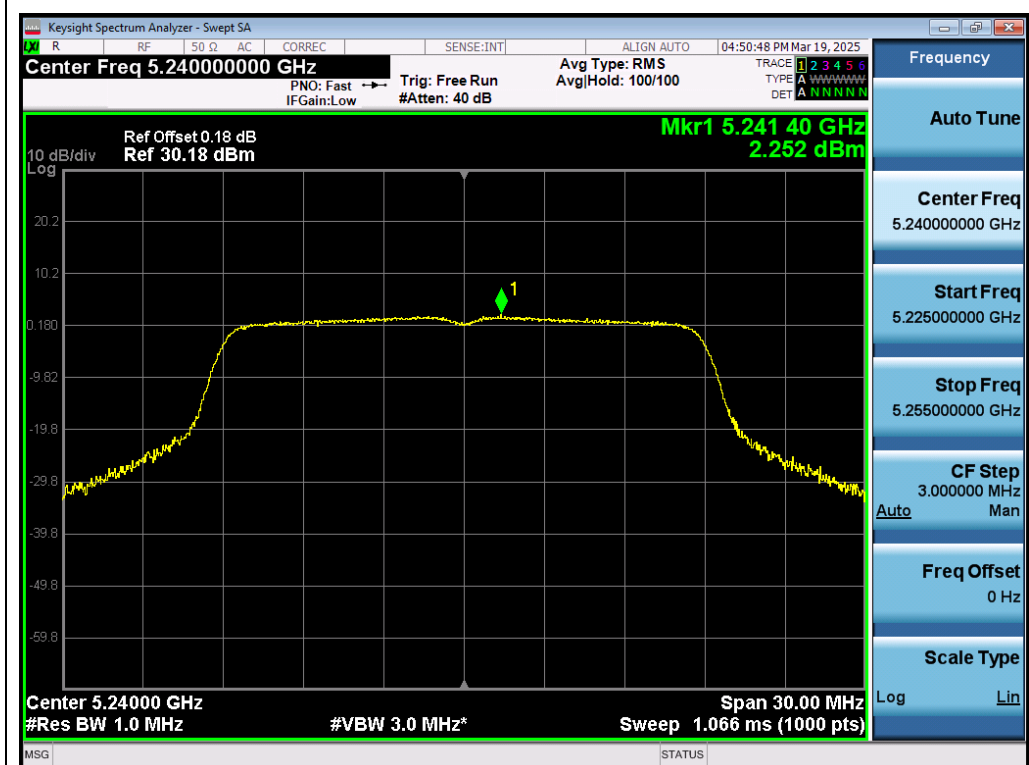
Test_Graph_802.11a_ANT1_5240_6Mbps_PSD



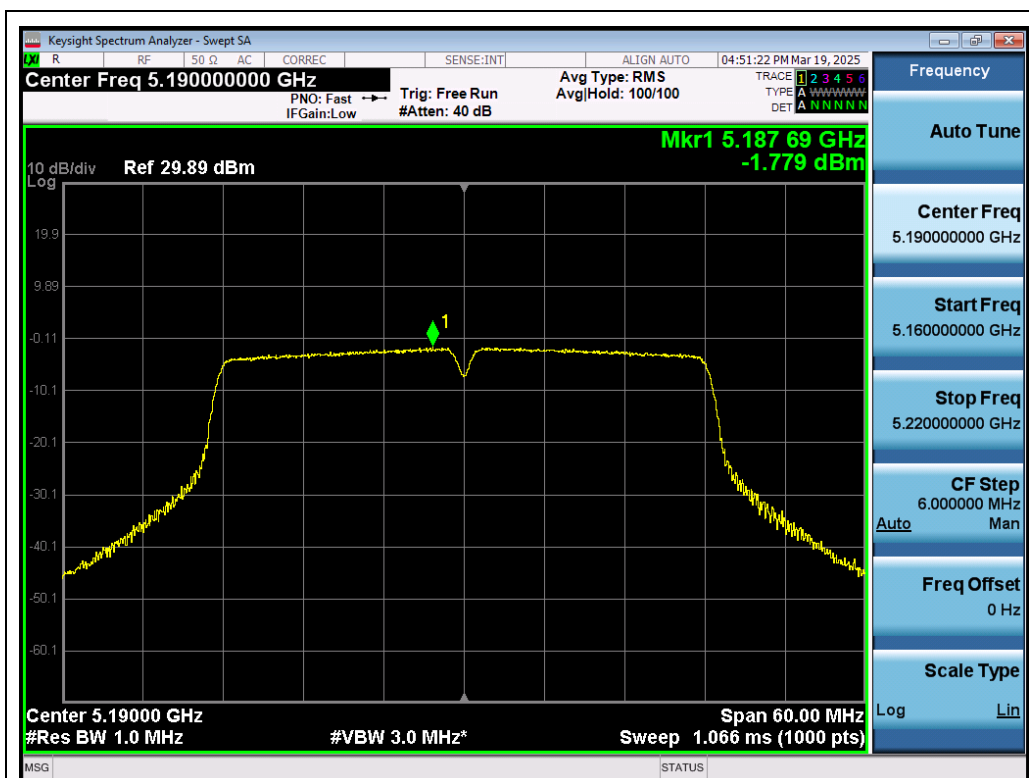
Test_Graph_802.11n20_ANT1_5180_MCS0_PSD



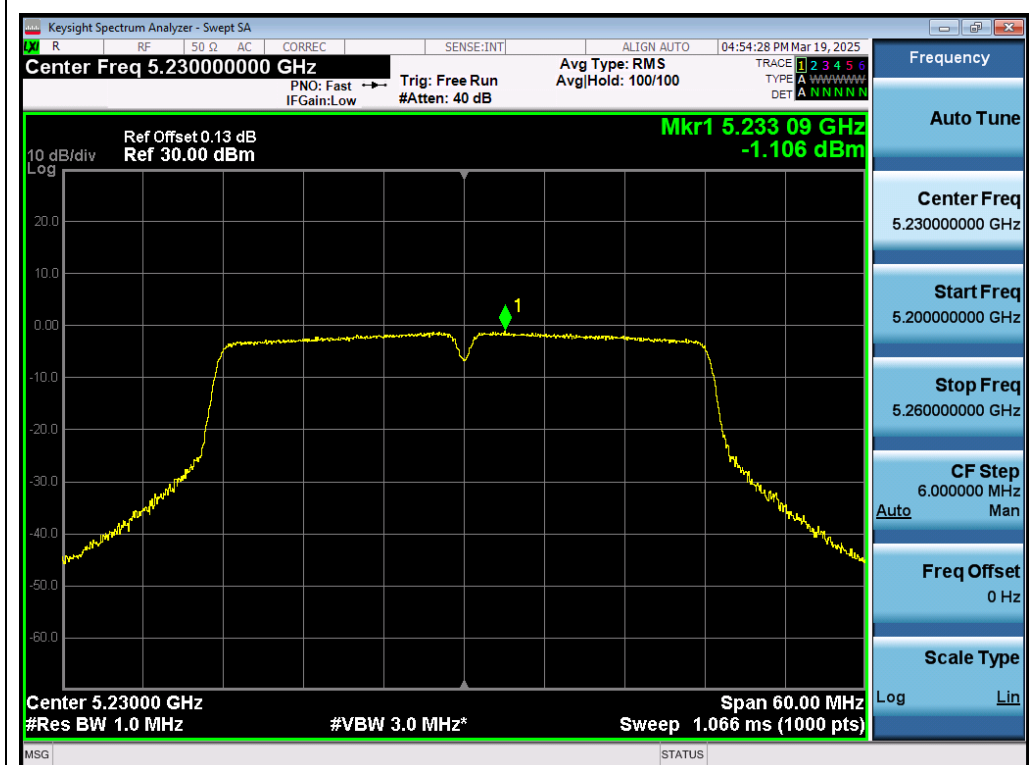
Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



Test_Graph_802.11n20_ANT1_5240_MCS0_PSD



Test_Graph_802.11n40_ANT1_5190_MCS0_PSD



Test_Graph_802.11n40_ANT1_5230_MCS0_PSD