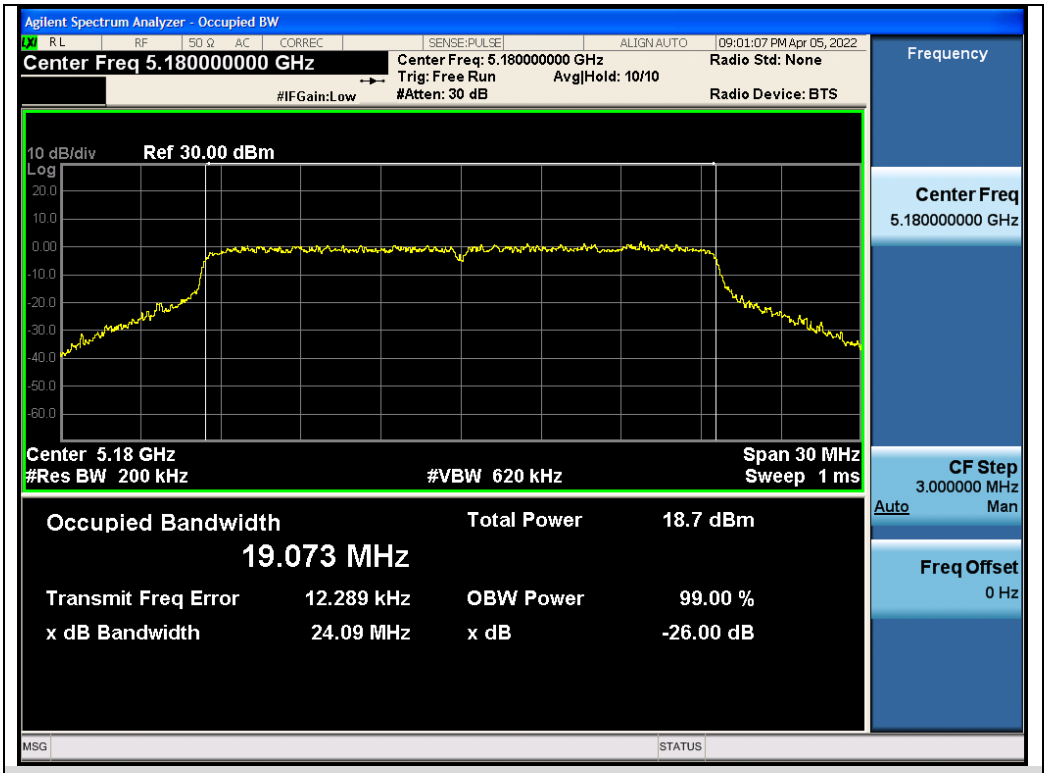
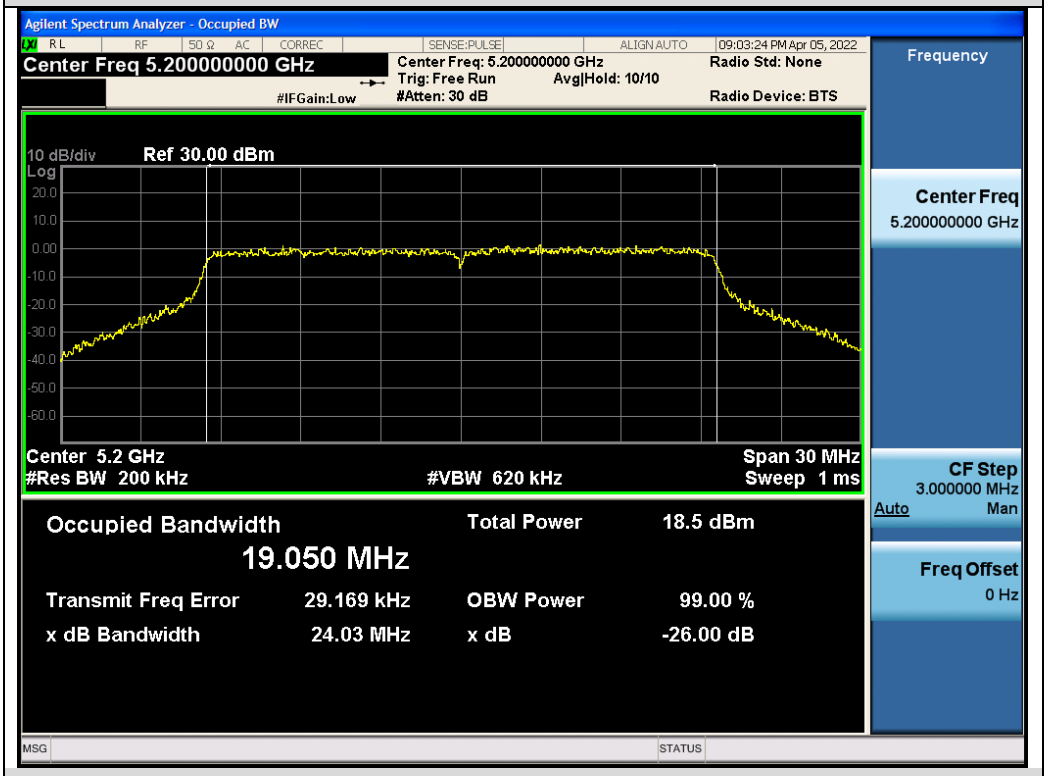
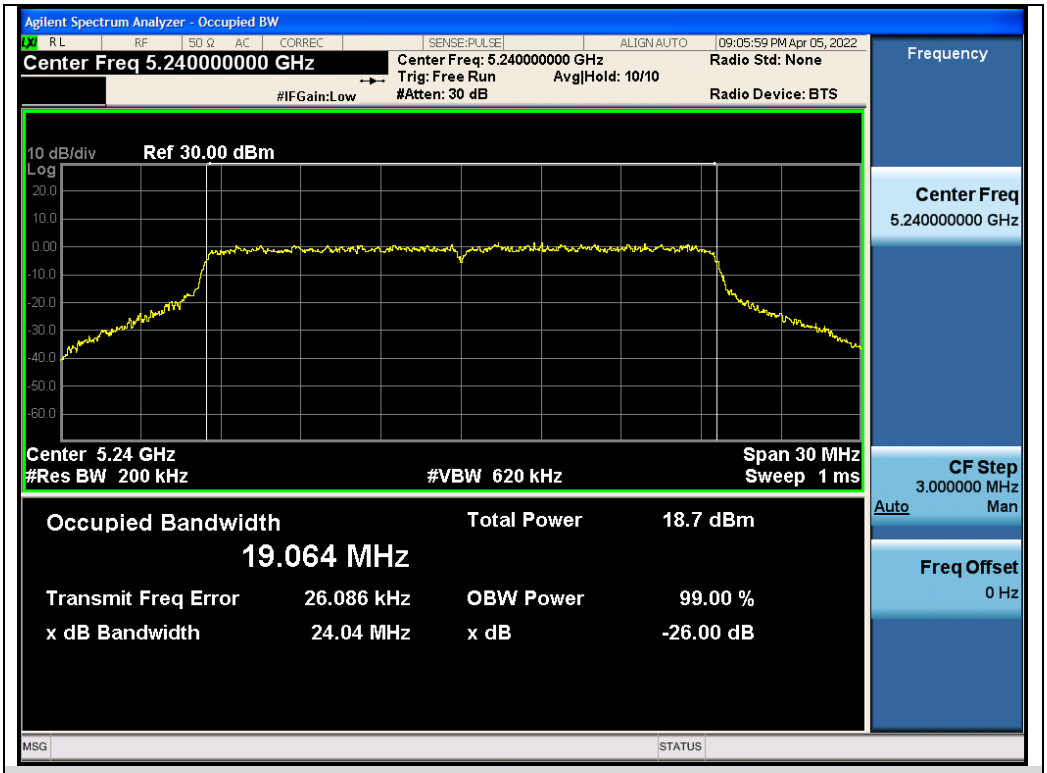


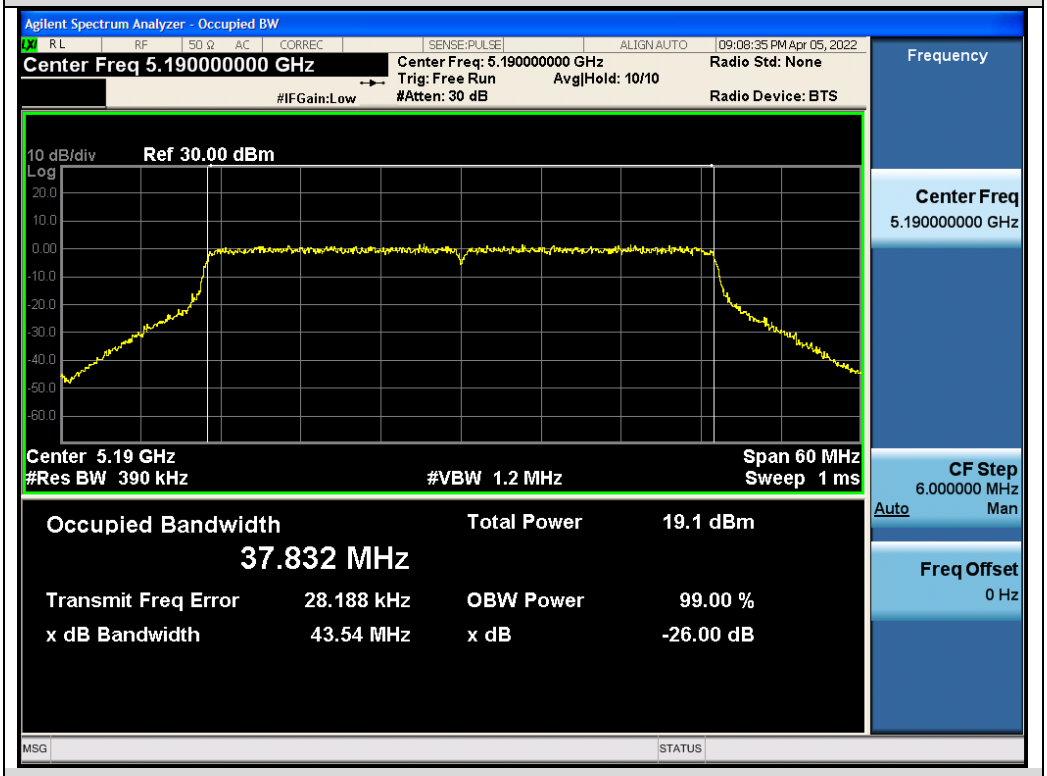
Test_Graph_802.11ac20_ANT2_5180_MCS0_OBW



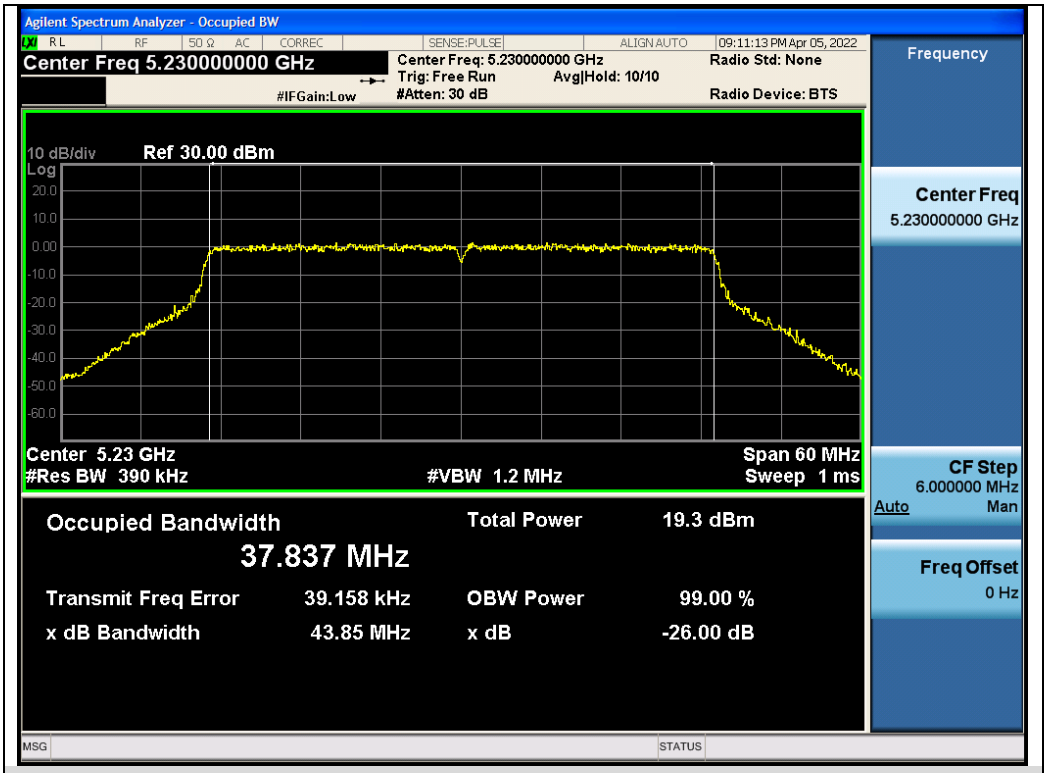
Test_Graph_802.11ac20_ANT2_5200_MCS0_OBW



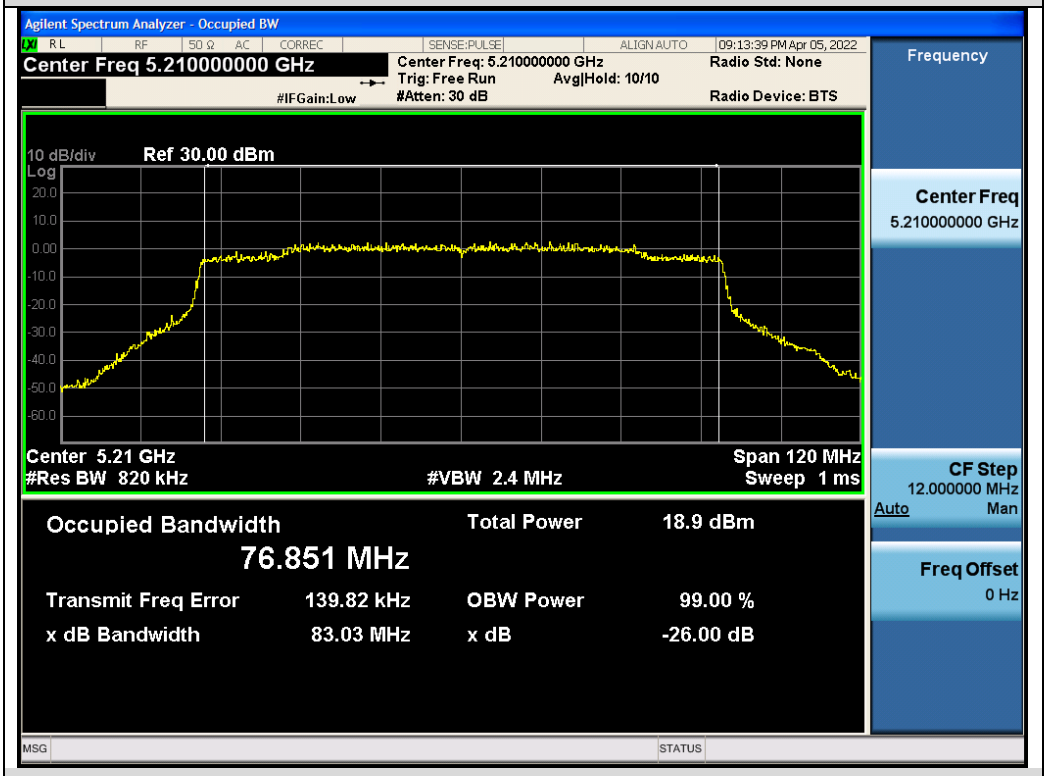
Test_Graph_802.11ac20_ANT2_5240_MCS9_OBW



Test_Graph_802.11ac40_ANT2_5190_MCS9_OBW

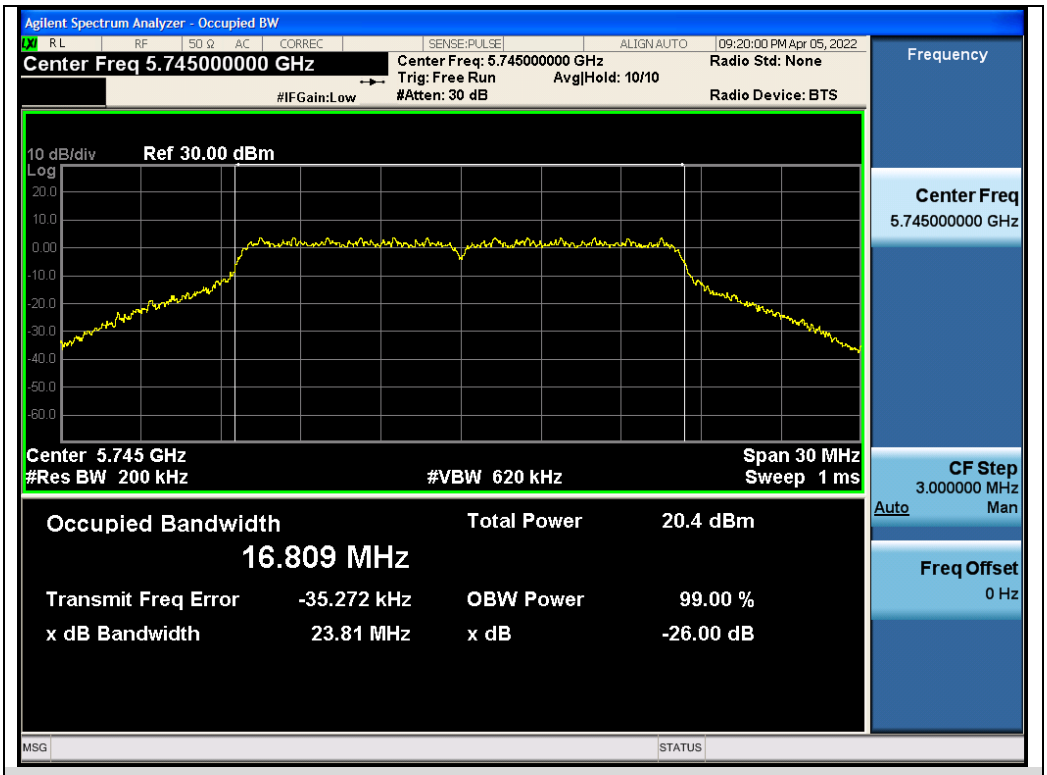


Test_Graph_802.11ac40_ANT2_5230_MCS9_OBW

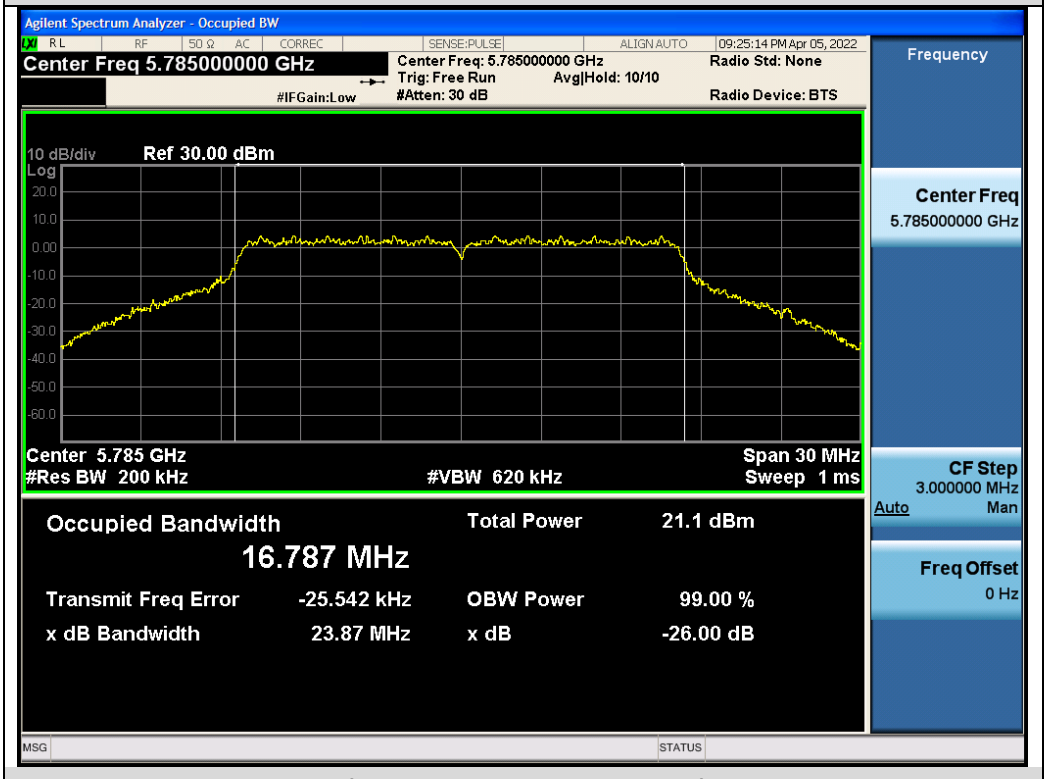


Test_Graph_802.11ac80_ANT2_5210_MCS9_OBW

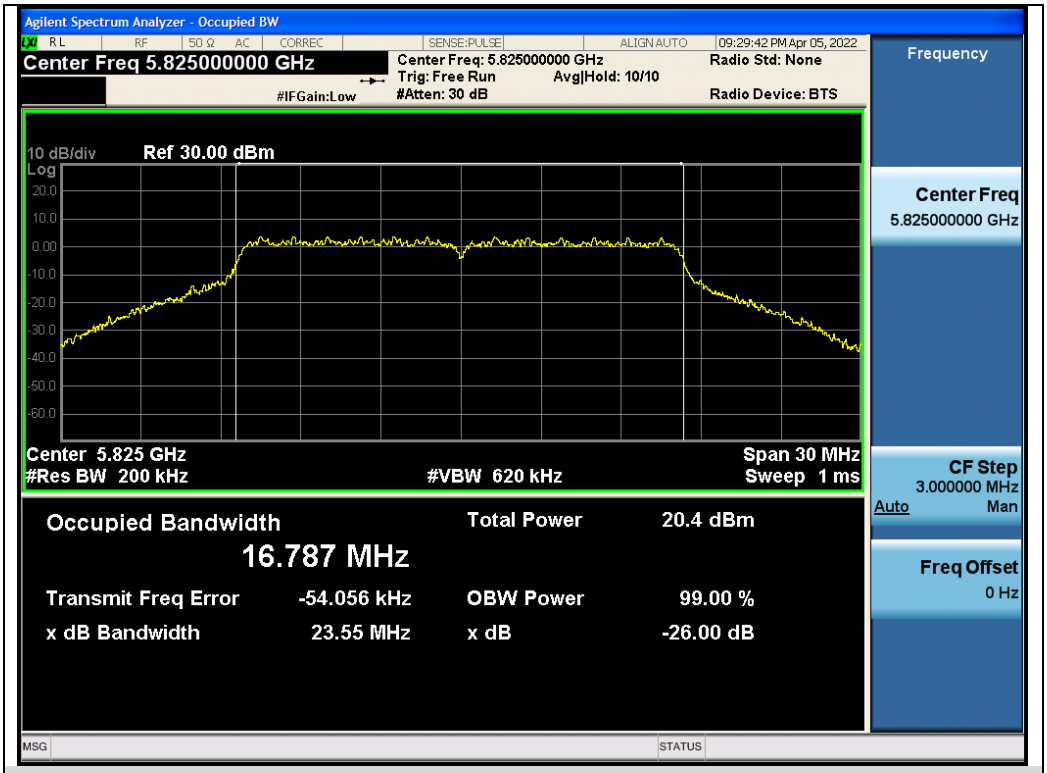
Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



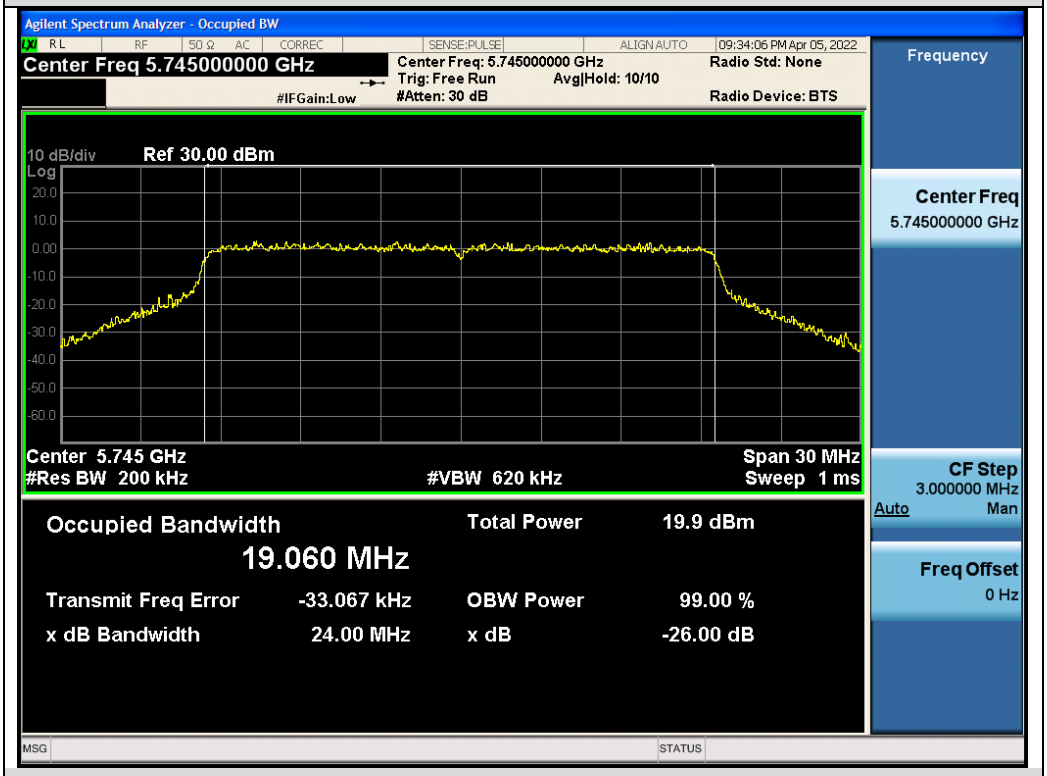
Test_Graph_802.11a_ANT2_5745_6Mbps_OBW



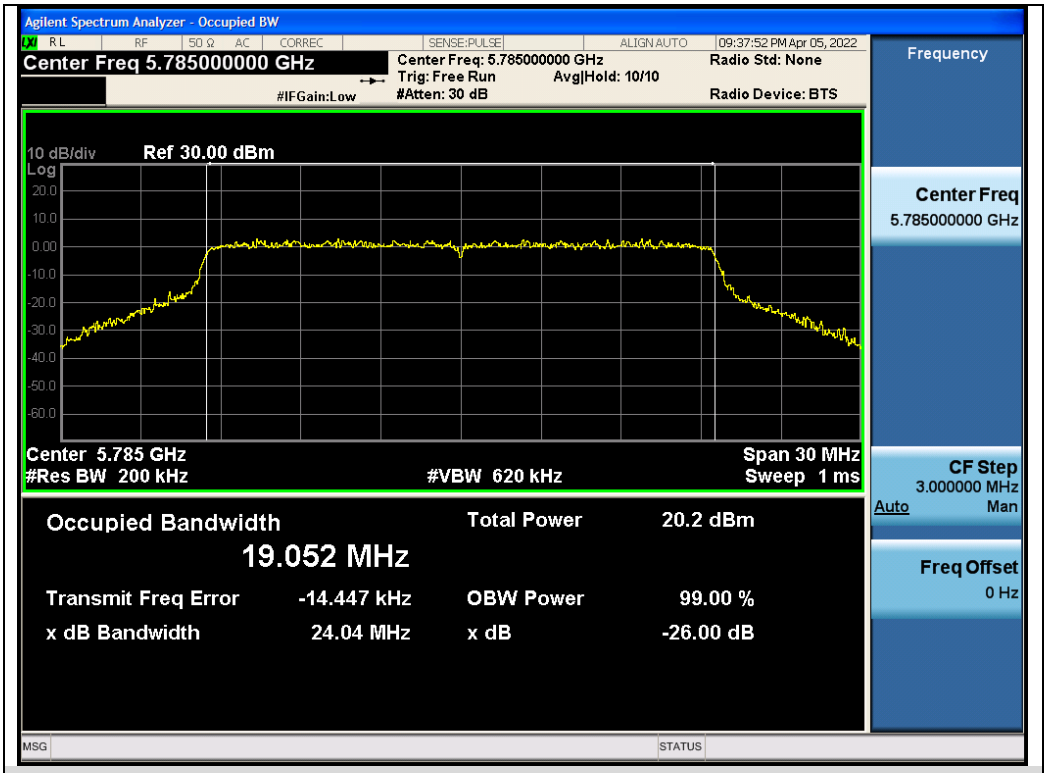
Test_Graph_802.11a_ANT2_5785_6Mbps_OBW



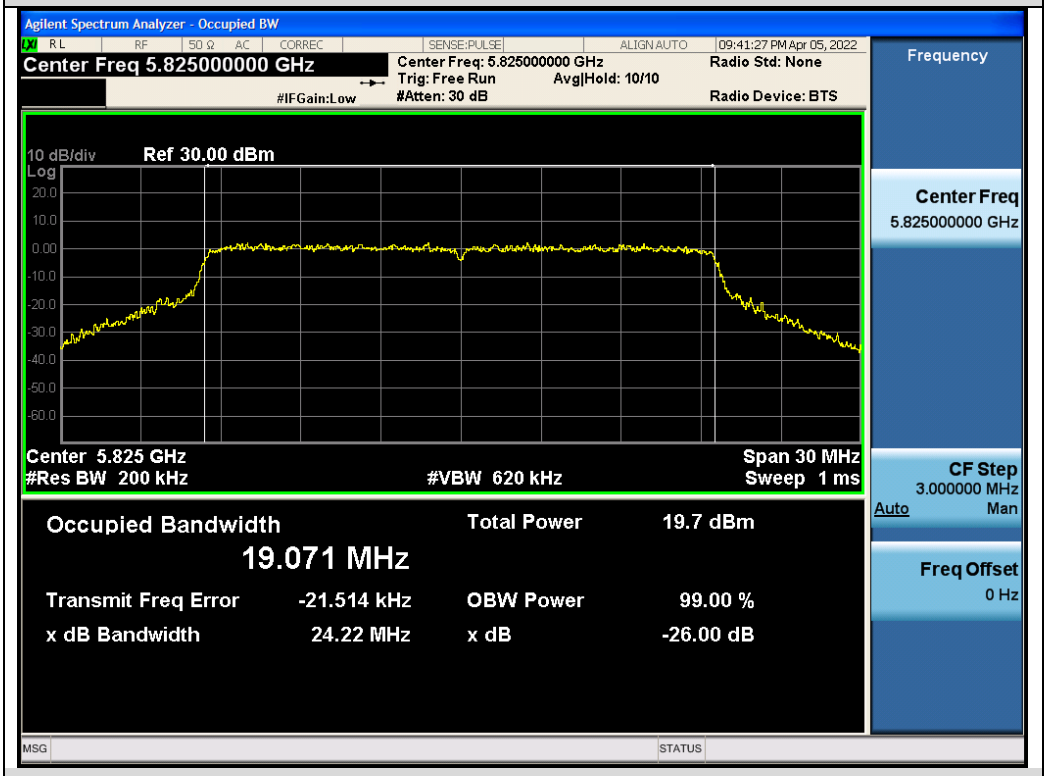
Test_Graph_802.11a_ANT2_5825_6Mbps_OBW



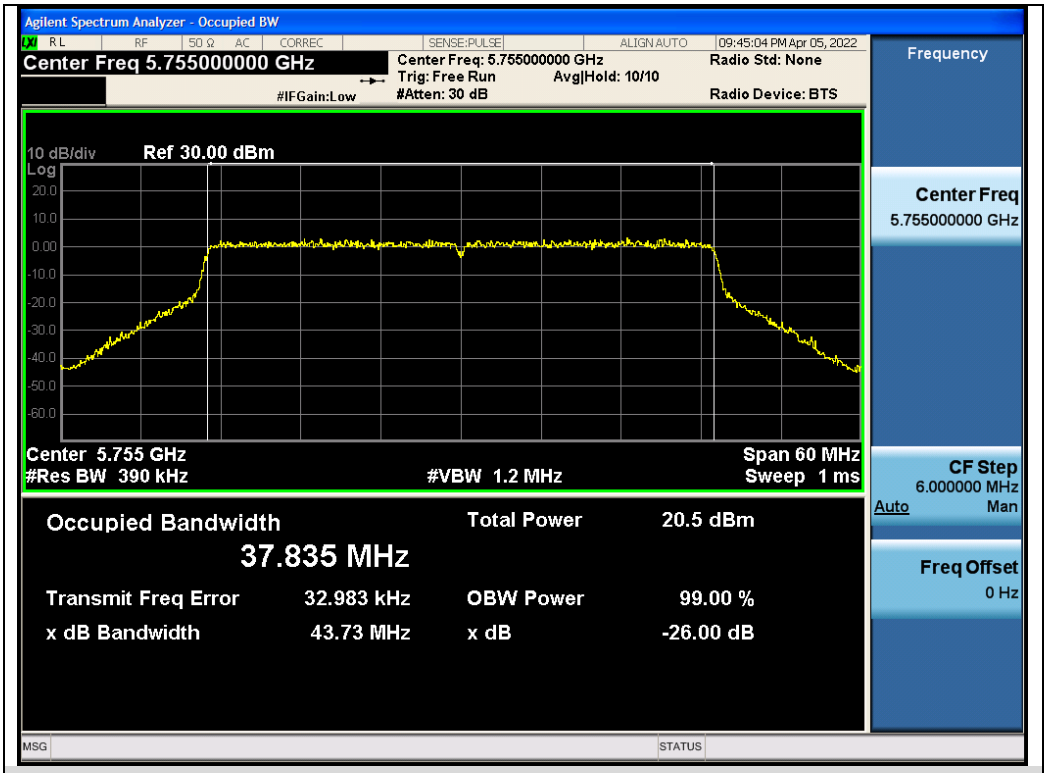
Test_Graph_802.11n20_ANT2_5745_MCS0_OBW



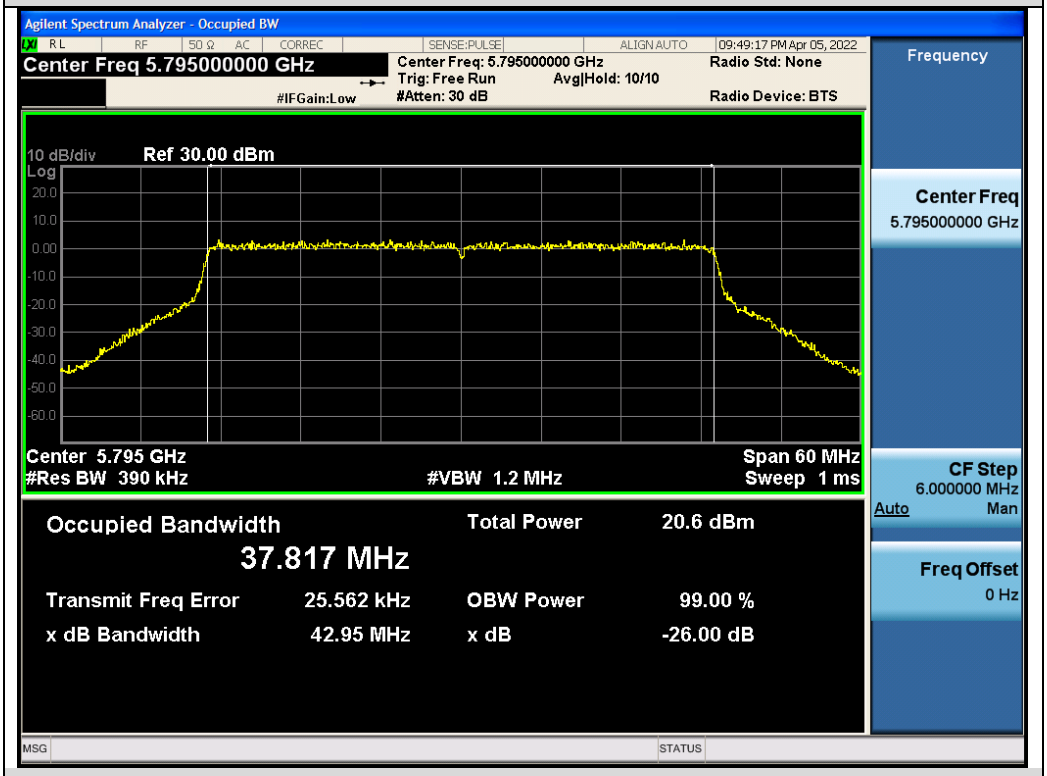
Test_Graph_802.11n20_ANT2_5785_MCS0_OBW



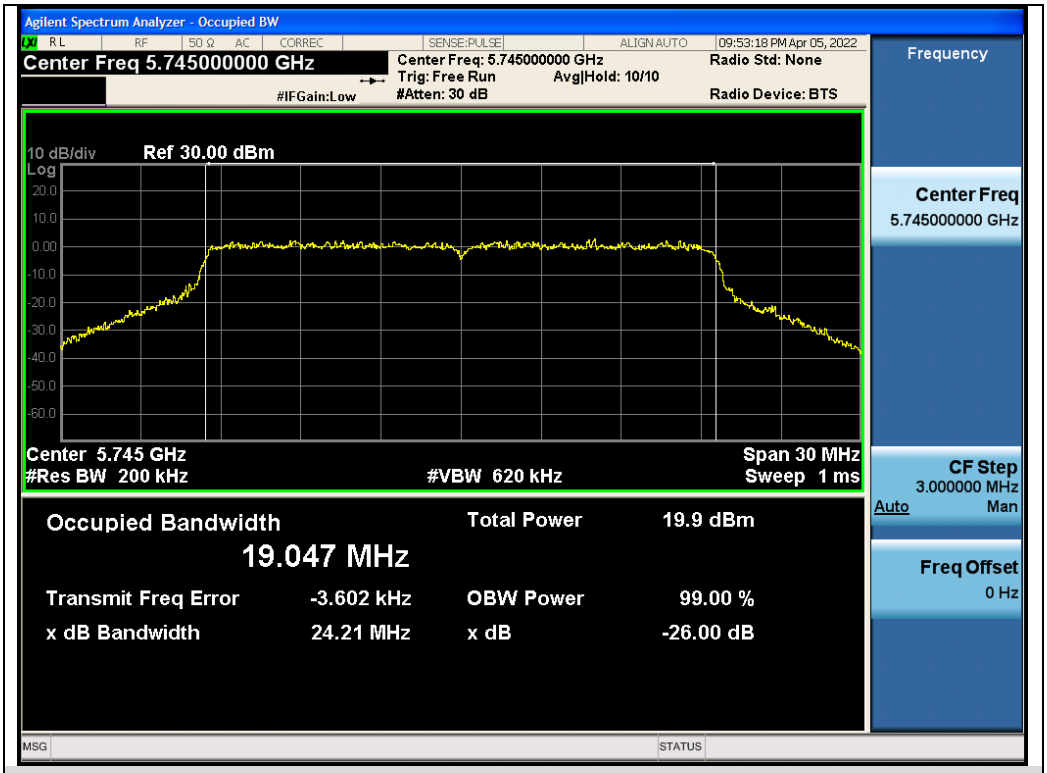
Test_Graph_802.11n20_ANT2_5825_MCS0_OBW



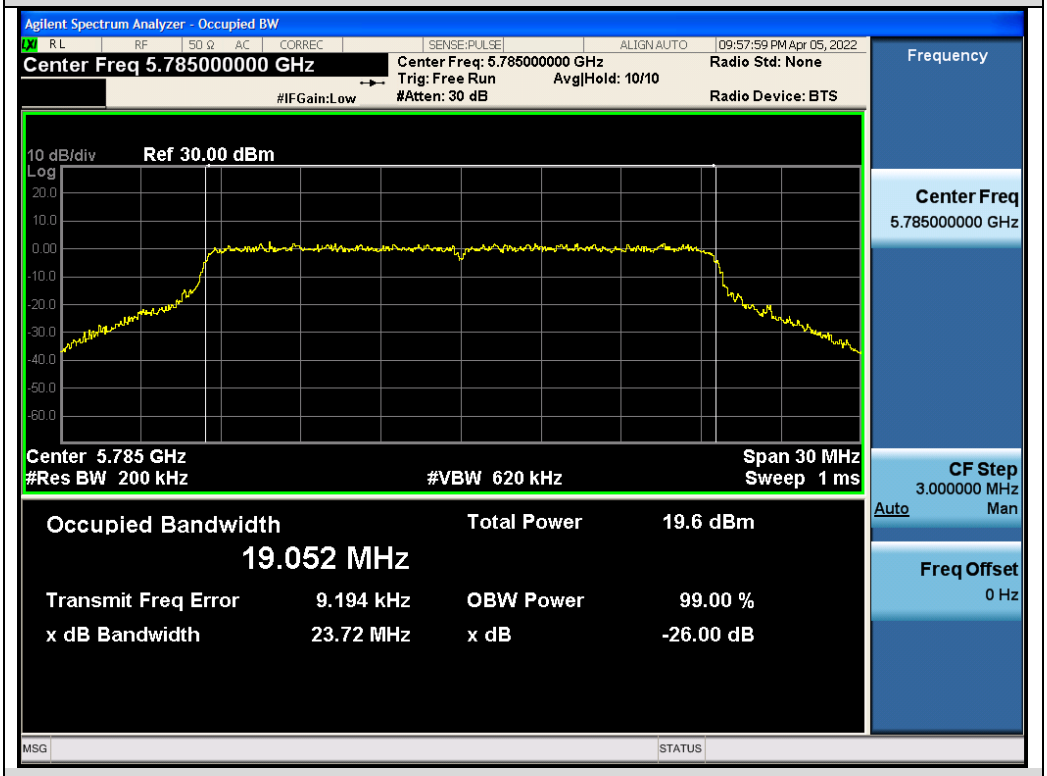
Test_Graph_802.11n40_ANT2_5755_MCS0_OBW



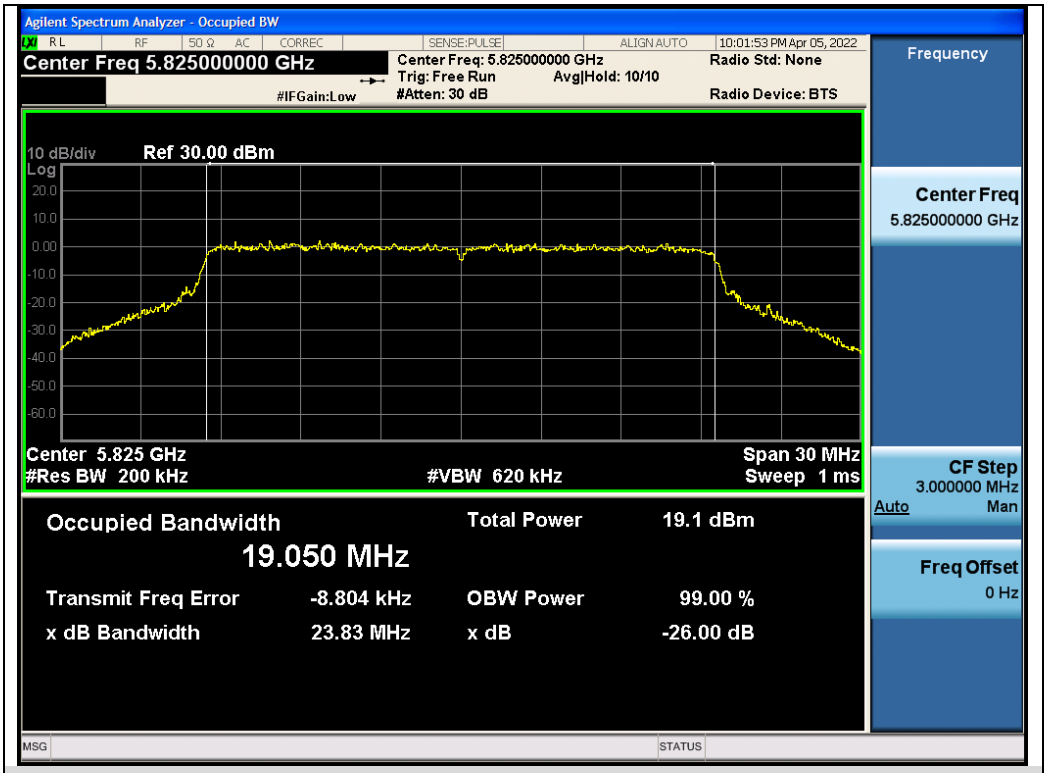
Test_Graph_802.11n40_ANT2_5795_MCS0_OBW



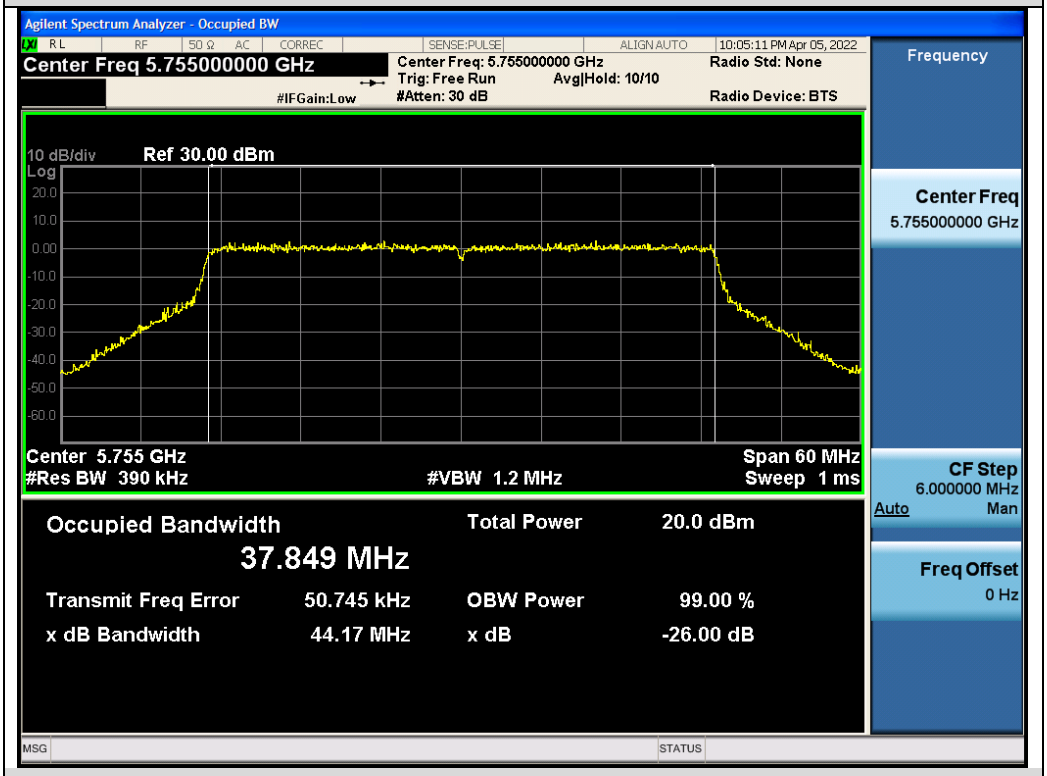
Test_Graph_802.11ac20_ANT2_5745_MCS0_OBW



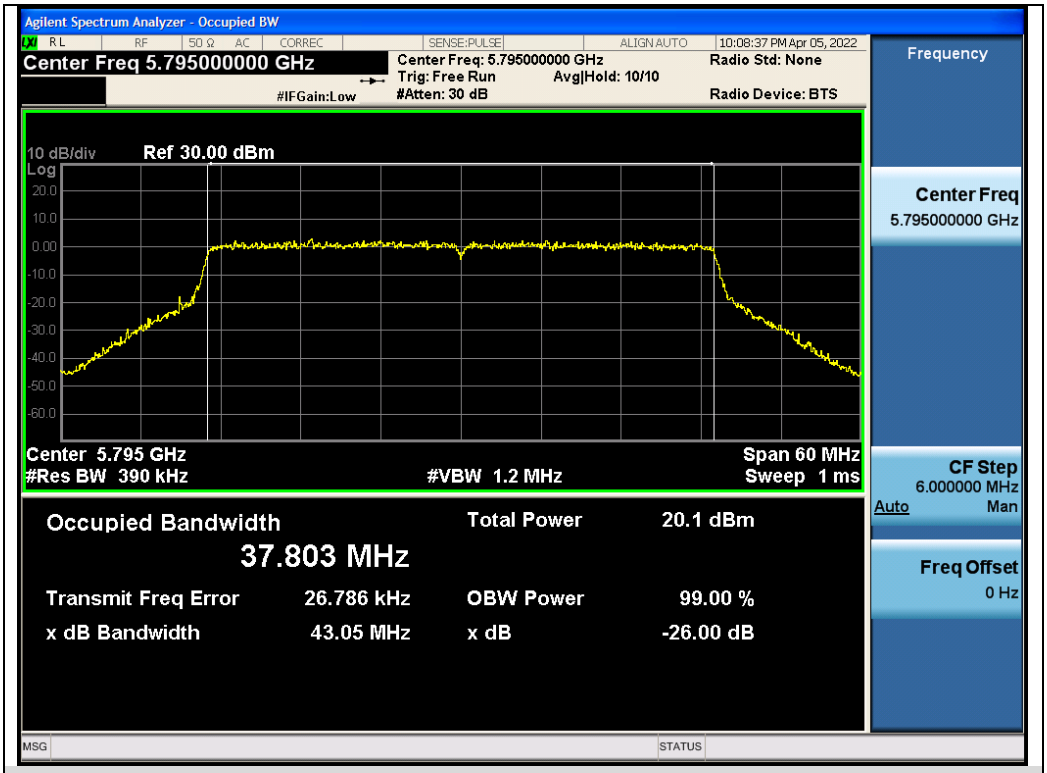
Test_Graph_802.11ac20_ANT2_5785_MCS0_OBW



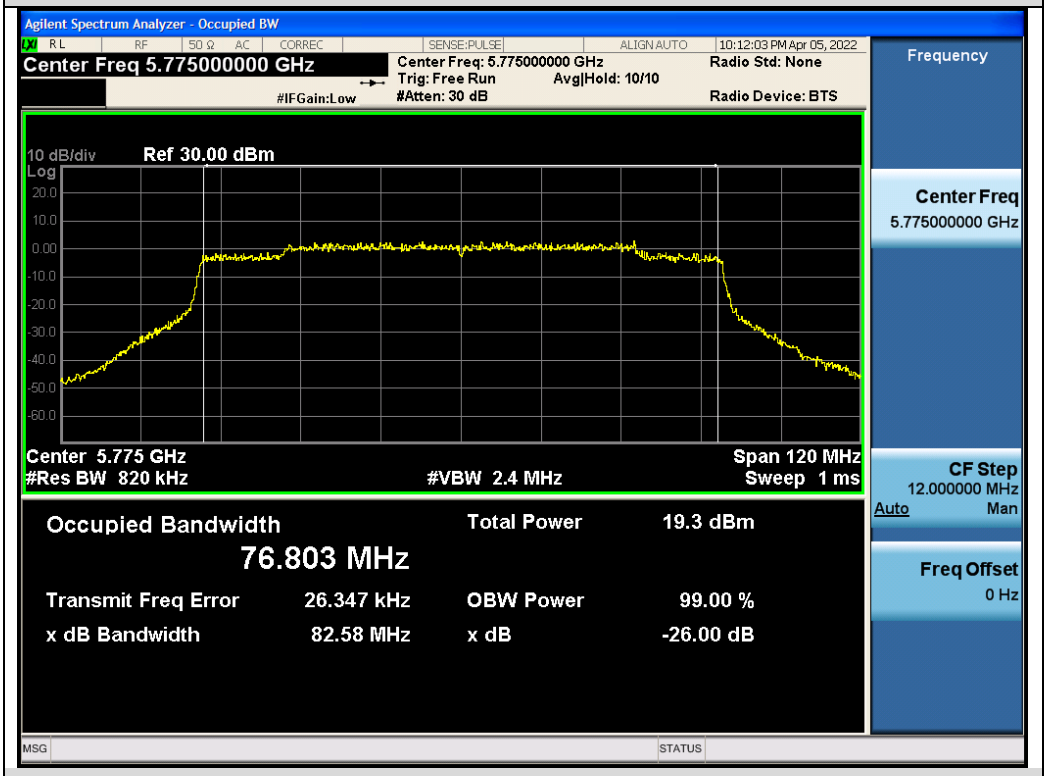
Test_Graph_802.11ac20_ANT2_5825_MCS9_OBW



Test_Graph_802.11ac40_ANT2_5755_MCS9_OBW

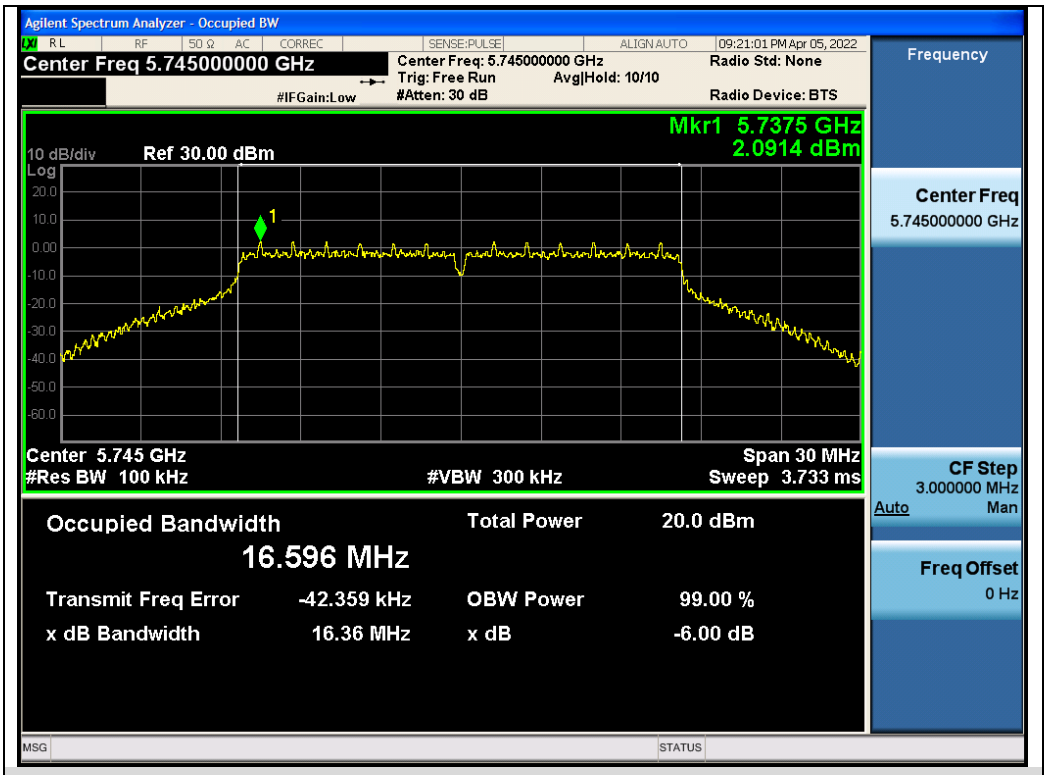


Test_Graph_802.11ac40_ANT2_5795_MCS9_OBW

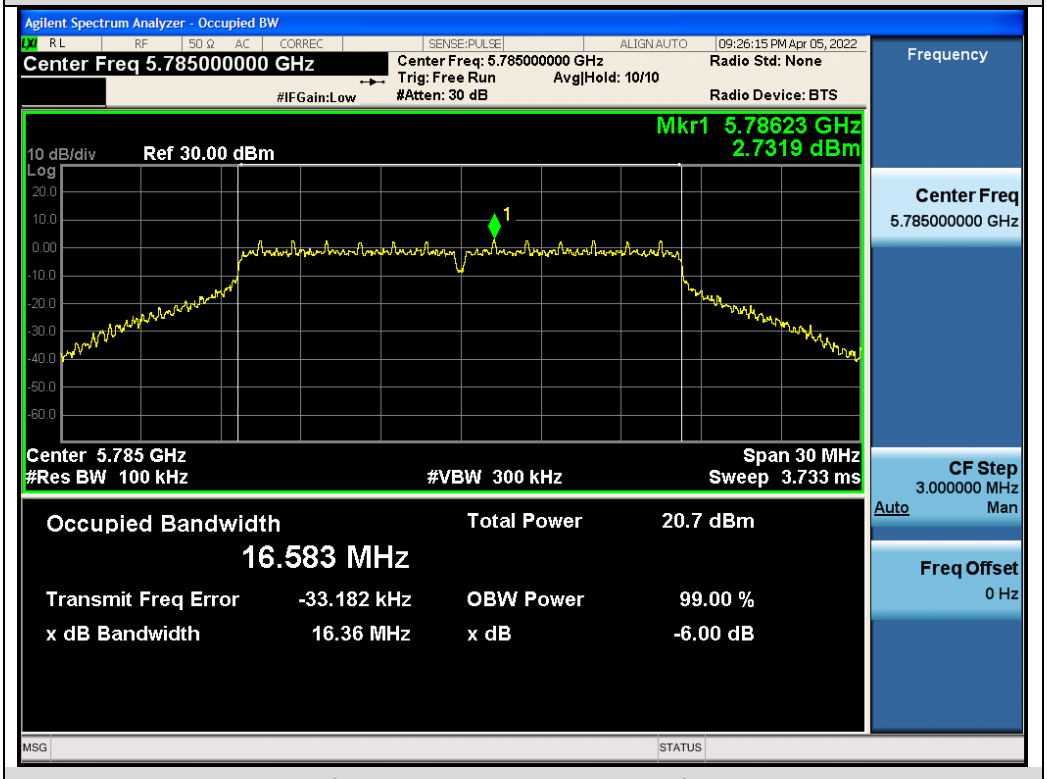


Test_Graph_802.11ac80_ANT2_5775_MCS9_OBW

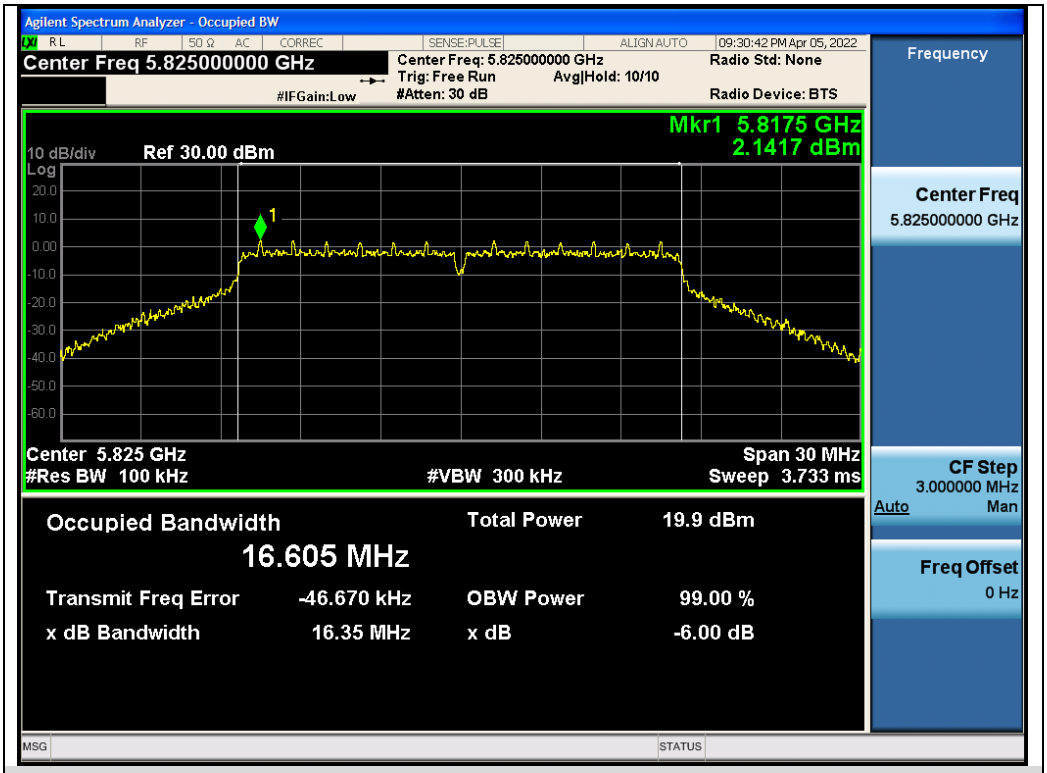
Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



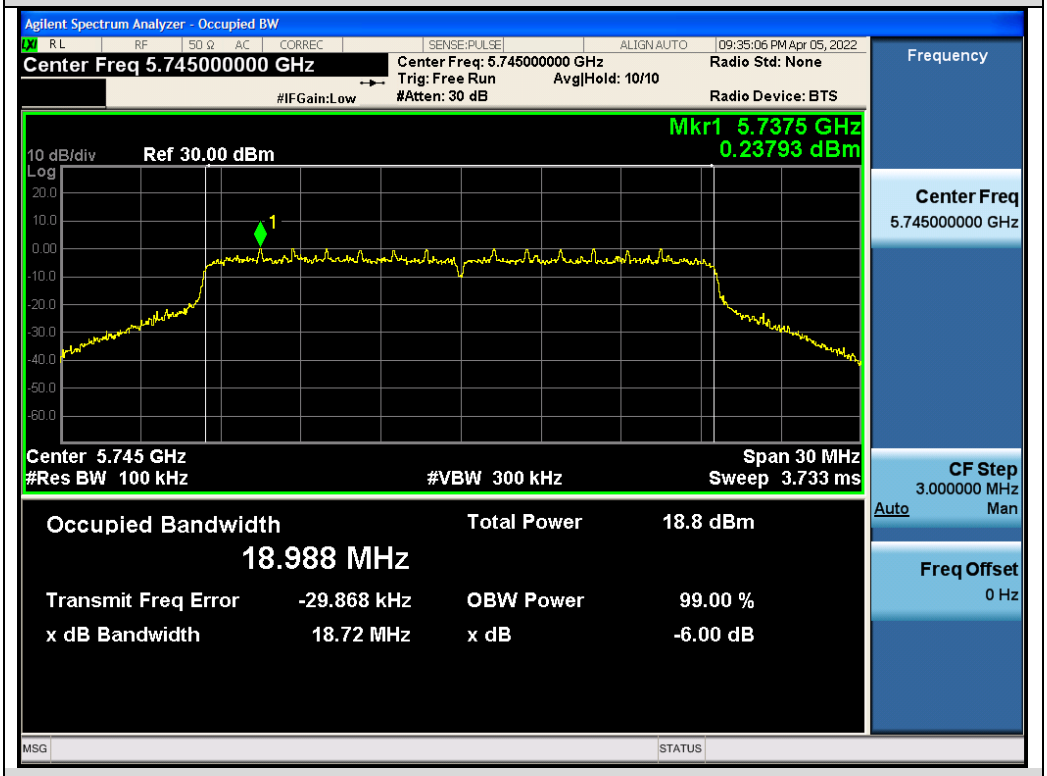
Test_Graph_802.11a_ANT2_5745_6Mbps_DTSBW



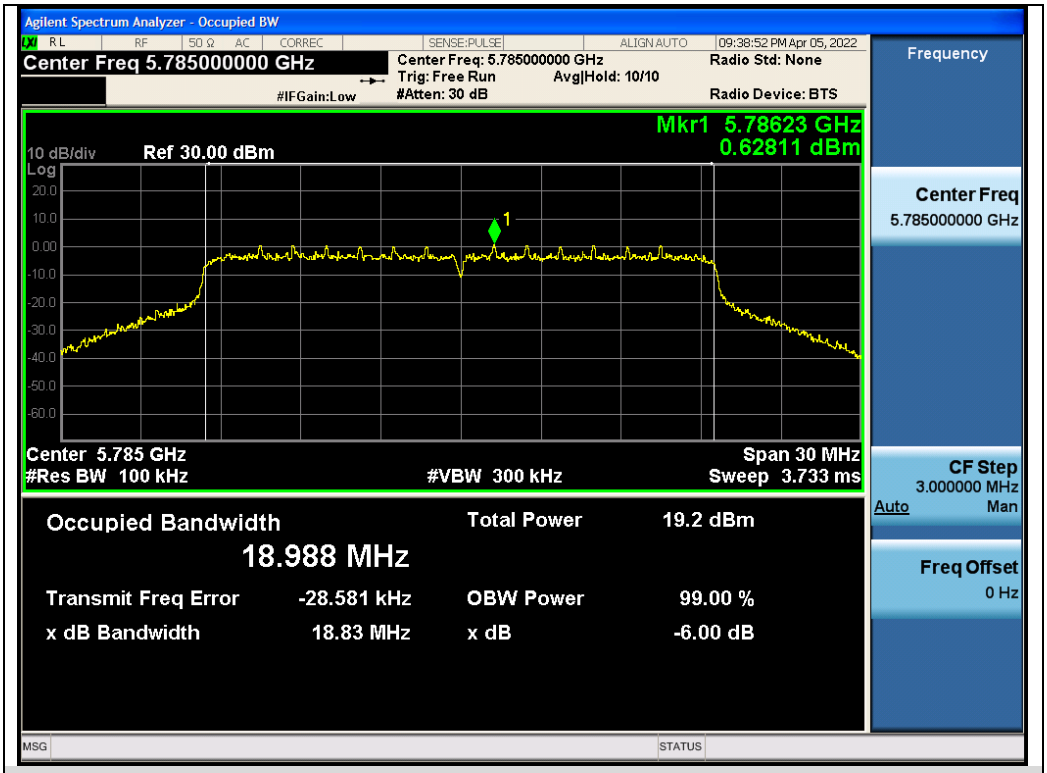
Test_Graph_802.11a_ANT2_5785_6Mbps_DTSBW



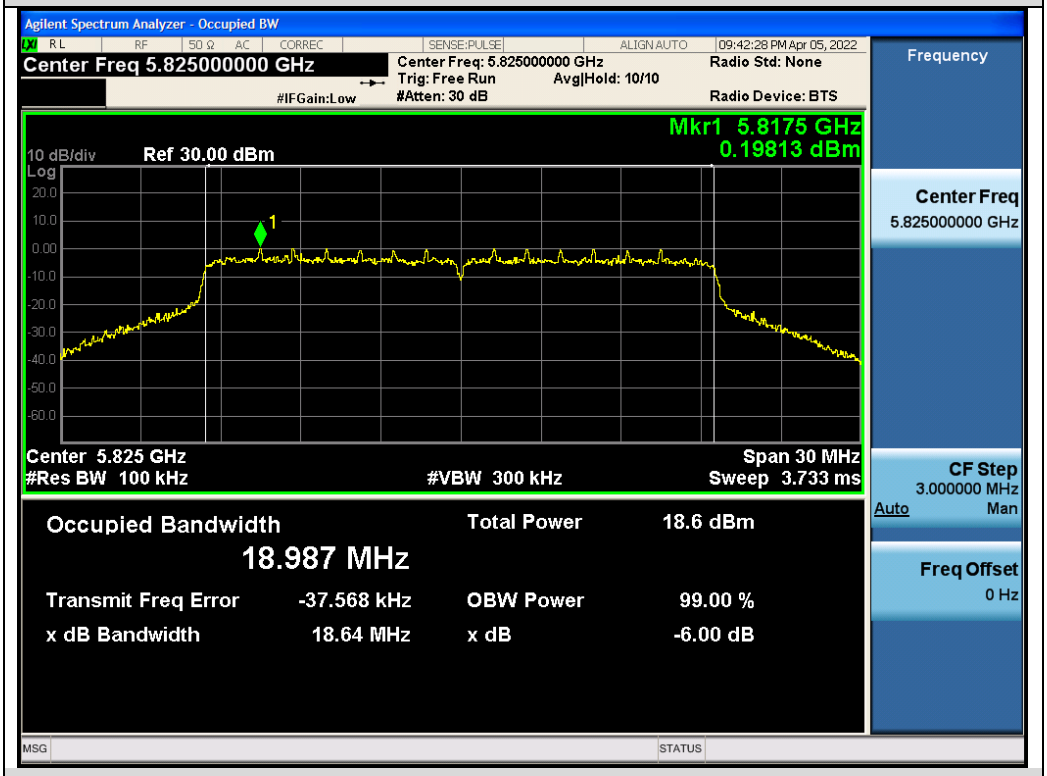
Test_Graph_802.11a_ANT2_5825_6Mbps_DTSBW



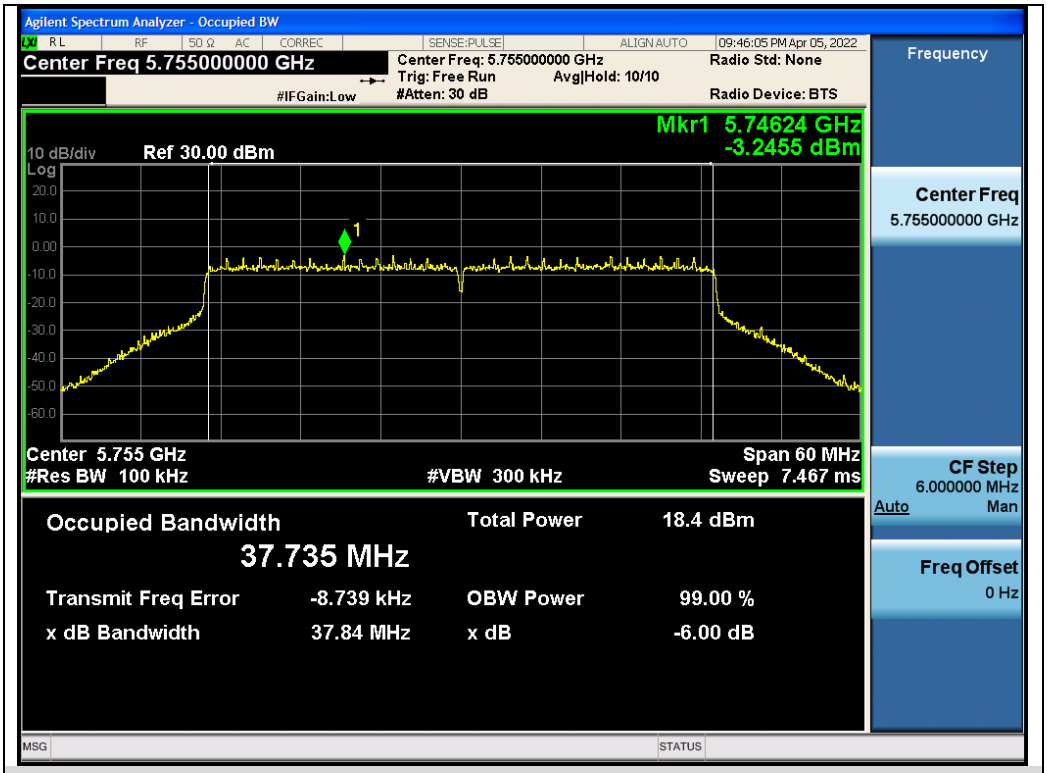
Test_Graph_802.11n20_ANT2_5745_MCS0_DTSBW



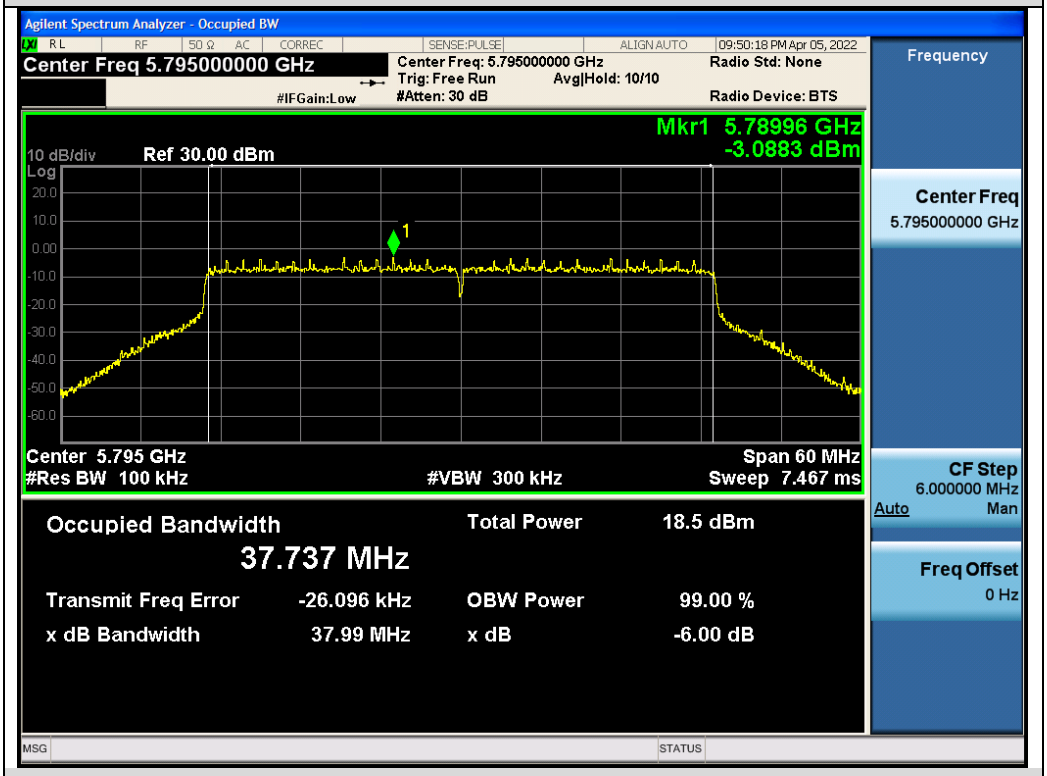
Test_Graph_802.11n20_ANT2_5785_MCS0_DTSBW



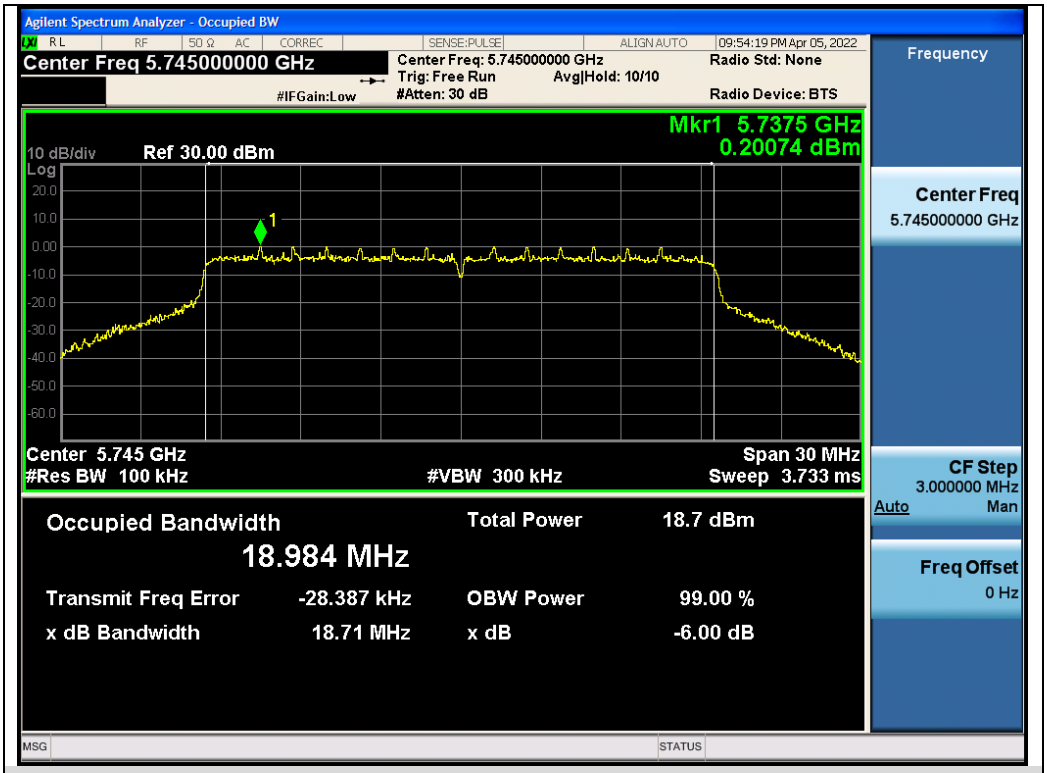
Test_Graph_802.11n20_ANT2_5825_MCS0_DTSBW



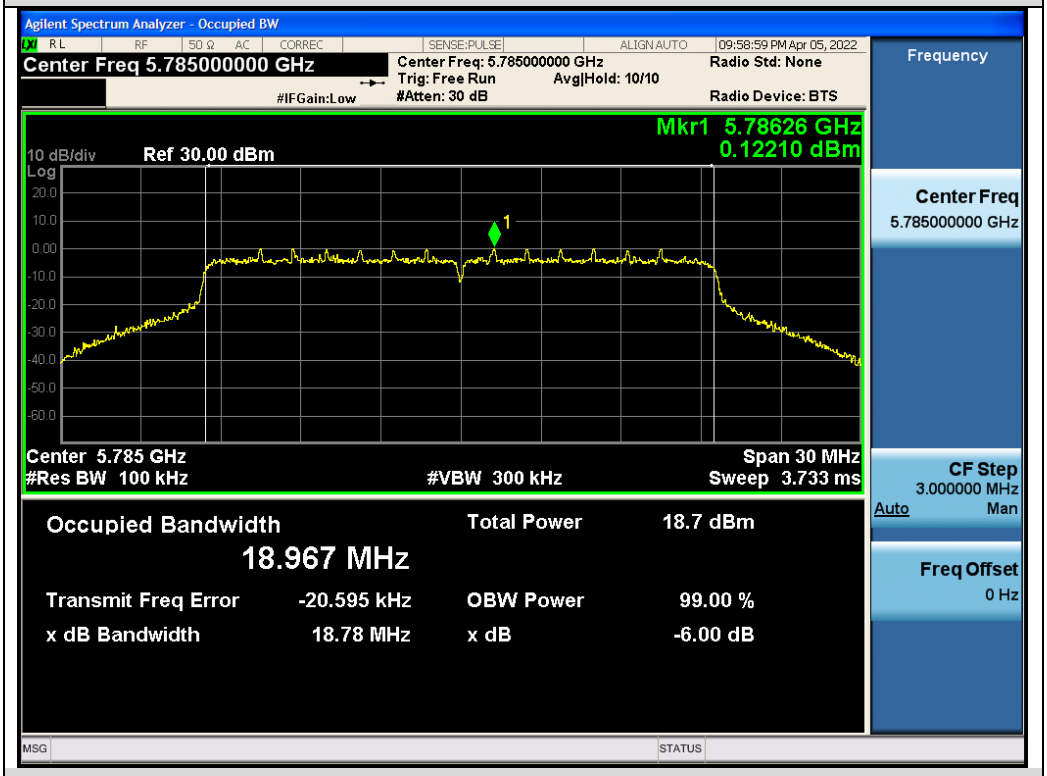
Test_Graph_802.11n40_ANT2_5755_MCS0_DTSBW



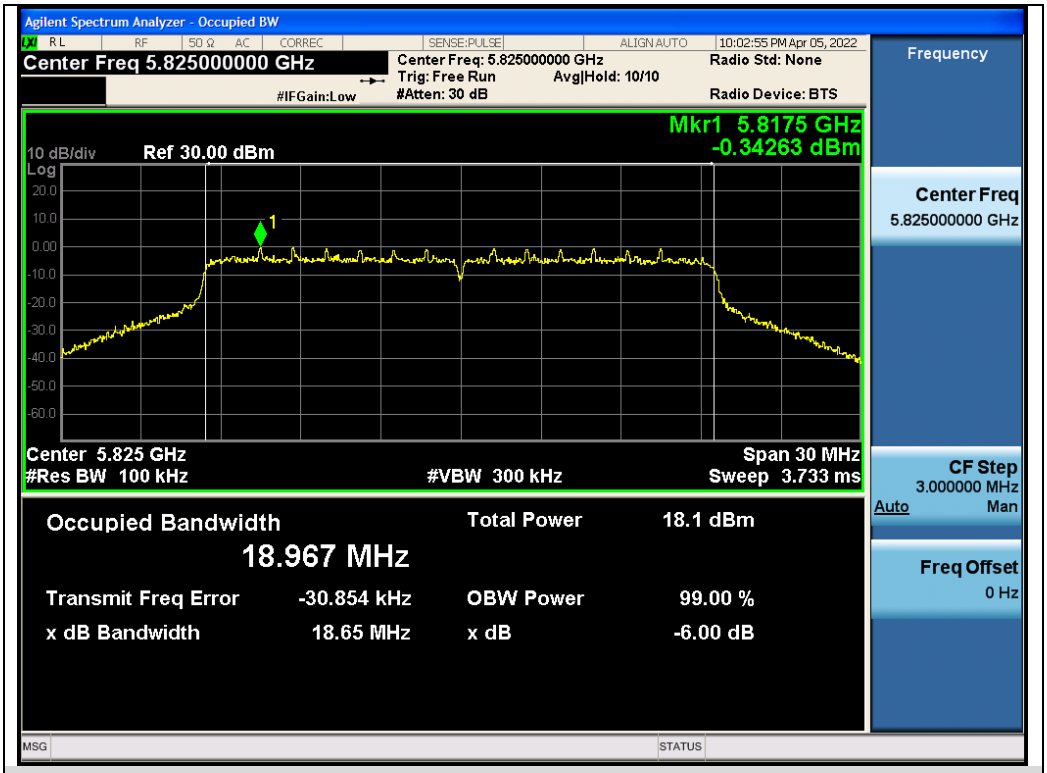
Test_Graph_802.11n40_ANT2_5795_MCS0_DTSBW



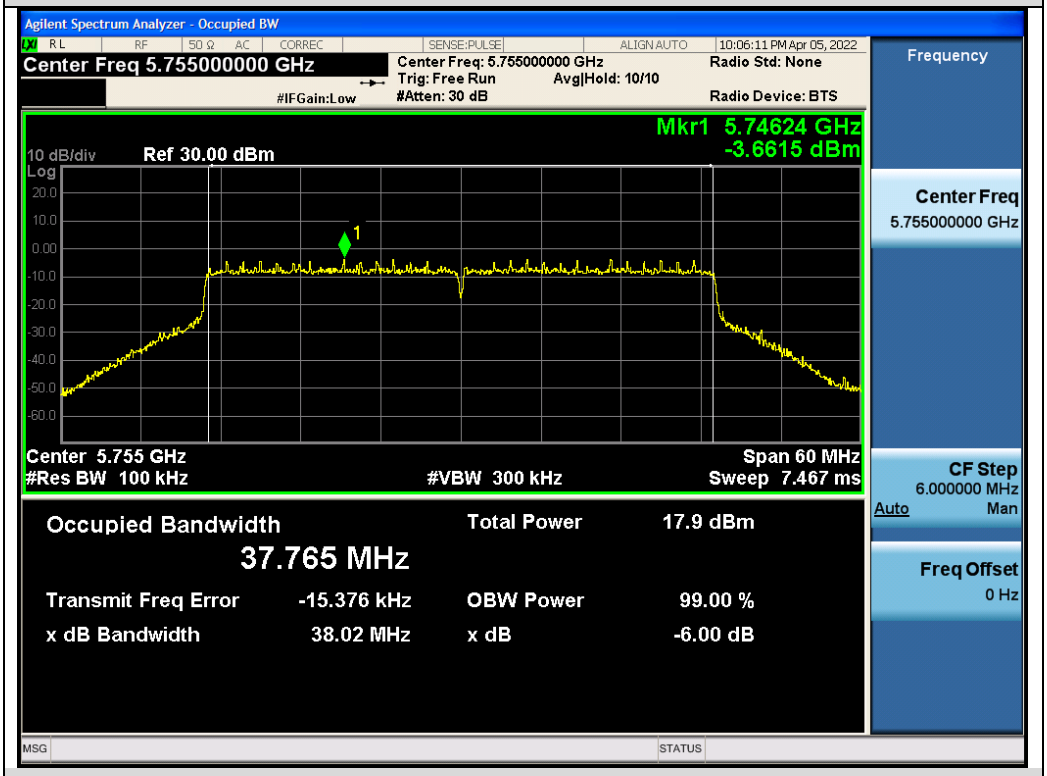
Test_Graph_802.11ac20_ANT2_5745_MCS0_DTSBW



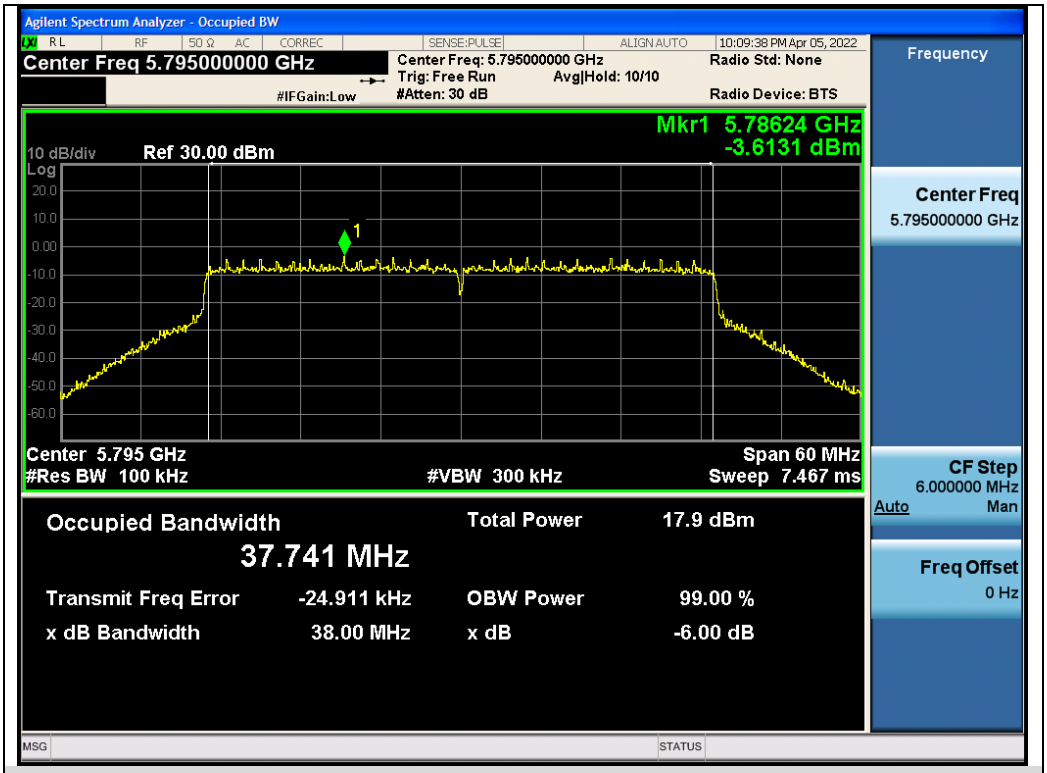
Test_Graph_802.11ac20_ANT2_5785_MCS0_DTSBW



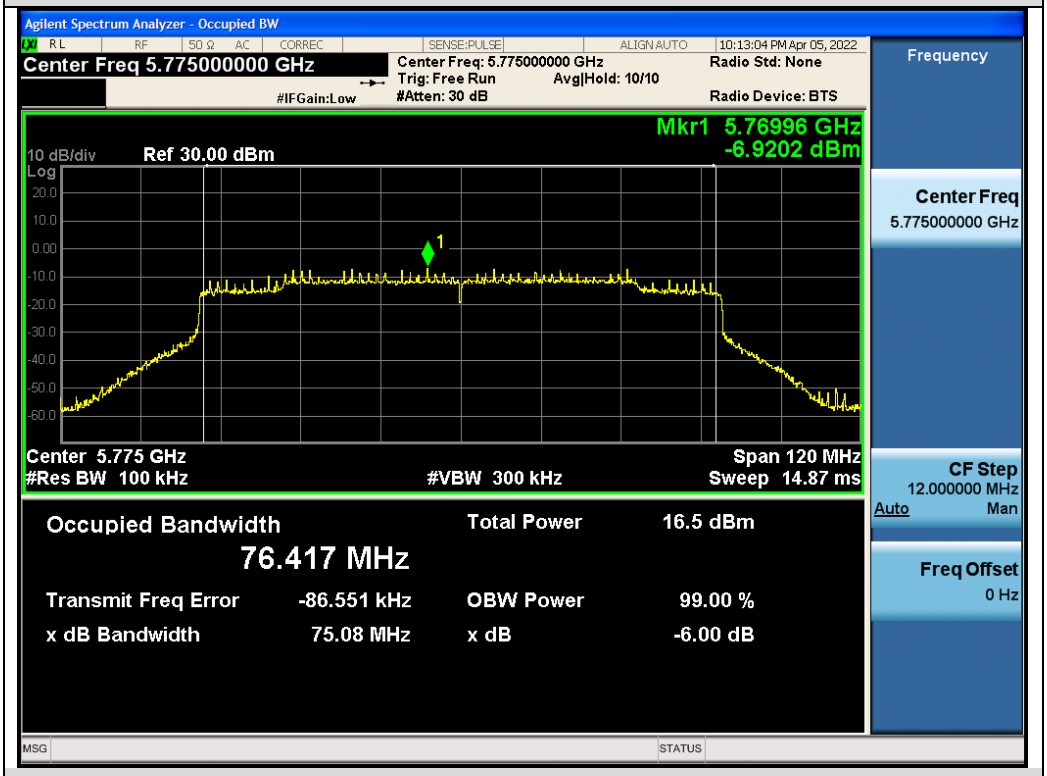
Test_Graph_802.11ac20_ANT2_5825_MCS9_DTSBW



Test_Graph_802.11ac40_ANT2_5755_MCS9_DTSBW



Test_Graph_802.11ac40_ANT2_5795_MCS9_DTSBW



Test_Graph_802.11ac80_ANT2_5775_MCS9_DTSBW

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-Ant 1				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	3.107	11	Pass
	5200	2.924	11	Pass
	5240	2.580	11	Pass
802.11n20	5180	-0.007	11	Pass
	5200	-0.328	11	Pass
	5240	-0.595	11	Pass
802.11n40	5190	-2.917	11	Pass
	5230	-3.324	11	Pass
802.11ac20	5180	-0.249	11	Pass
	5200	-1.025	11	Pass
	5240	-1.204	11	Pass
802.11ac40	5190	-3.188	11	Pass
	5230	-3.371	11	Pass
802.11ac80	5210	-6.271	11	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Ant 1					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-2.076	-9.066	30	Pass
	5785	-0.137	-7.127	30	Pass
	5825	-0.866	-7.856	30	Pass
802.11n20	5745	-2.826	-9.816	30	Pass
	5785	-1.899	-8.889	30	Pass
	5825	-2.839	-9.829	30	Pass
802.11n40	5755	-4.352	-11.342	30	Pass
	5795	-4.188	-11.178	30	Pass
802.11ac20	5745	-2.001	-8.991	30	Pass
	5785	-1.276	-8.266	30	Pass
	5825	-2.280	-9.27	30	Pass
802.11ac40	5755	-4.162	-11.152	30	Pass
	5795	-4.076	-11.066	30	Pass
802.11ac80	5775	-6.369	-13.359	30	Pass

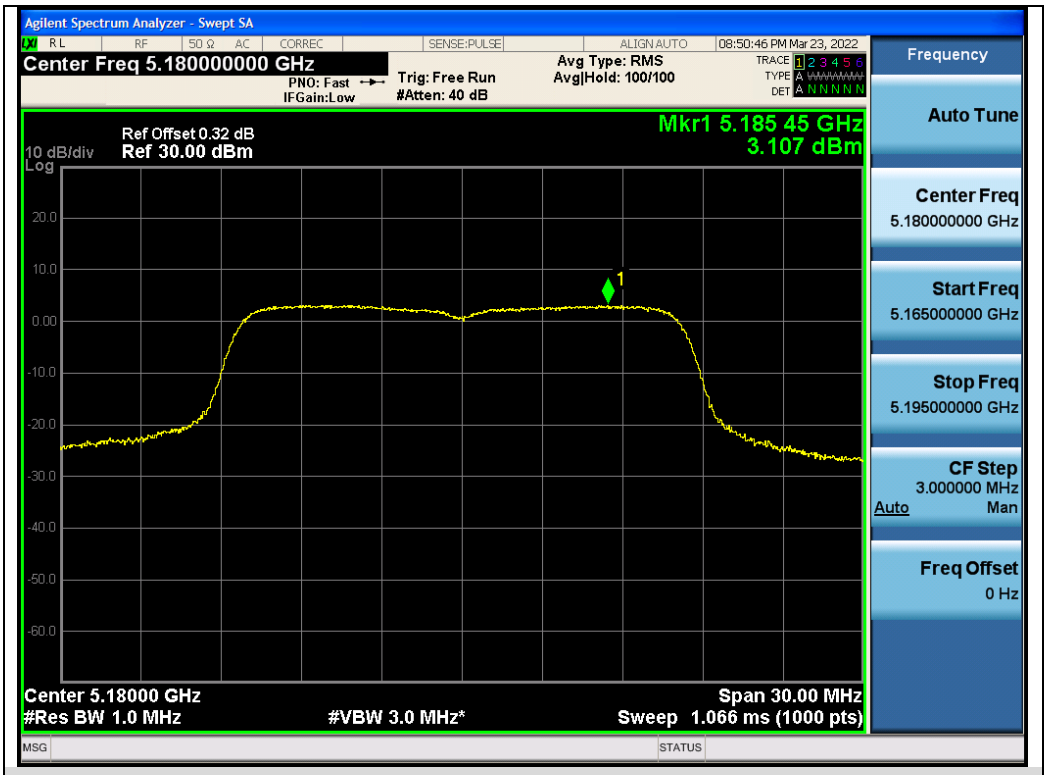
Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-Ant 2				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	4.046	11	Pass
	5200	3.969	11	Pass
	5240	4.253	11	Pass
802.11n20	5180	1.585	11	Pass
	5200	1.491	11	Pass
	5240	1.717	11	Pass
802.11n40	5190	-1.564	11	Pass
	5230	-1.233	11	Pass
802.11ac20	5180	0.072	11	Pass
	5200	0.135	11	Pass
	5240	0.026	11	Pass
802.11ac40	5190	-2.922	11	Pass
	5230	-2.625	11	Pass
802.11ac80	5210	-4.502	11	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Ant 2					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	3.211	-3.779	30	Pass
	5785	2.927	-4.063	30	Pass
	5825	2.498	-4.492	30	Pass
802.11n20	5745	-0.021	-7.011	30	Pass
	5785	0.579	-6.411	30	Pass
	5825	-0.446	-7.436	30	Pass
802.11n40	5755	-3.137	-10.127	30	Pass
	5795	-2.676	-9.666	30	Pass
802.11ac20	5745	-0.507	-7.497	30	Pass
	5785	-0.687	-7.677	30	Pass
	5825	-0.809	-7.799	30	Pass
802.11ac40	5755	-3.603	-10.593	30	Pass
	5795	-2.893	-9.883	30	Pass
802.11ac80	5775	-6.379	-13.369	30	Pass

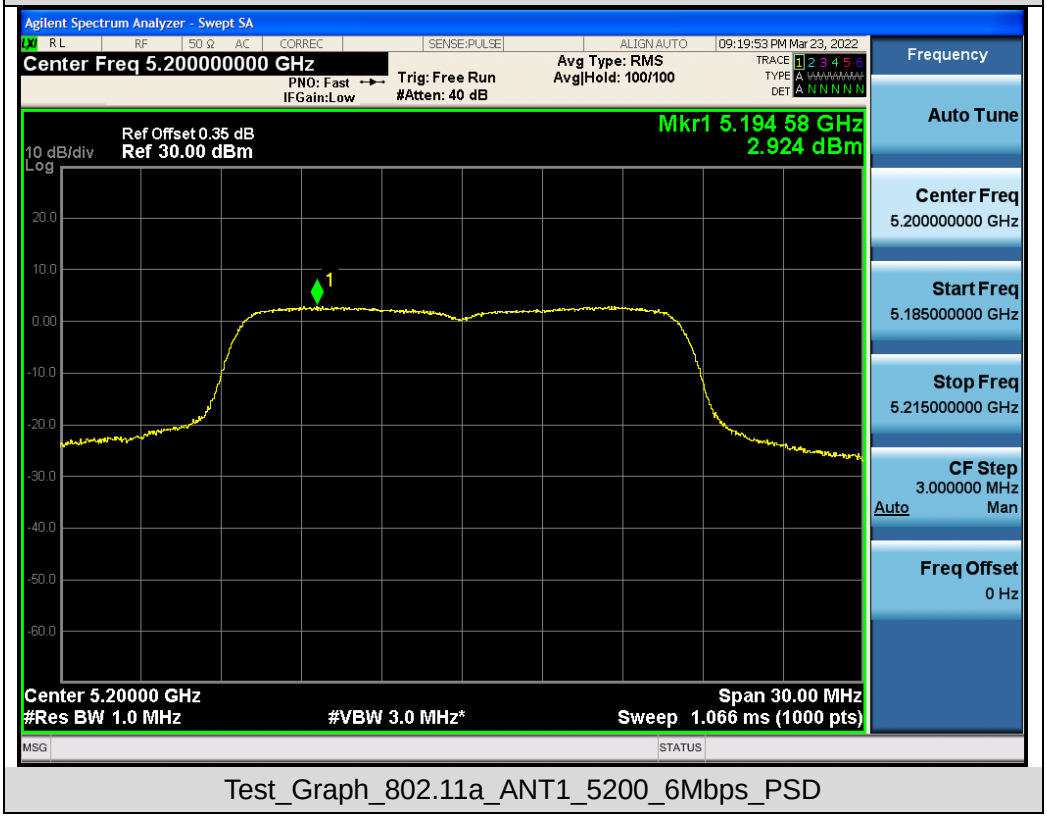
Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5180	3.87	11	Pass
	5200	3.69	11	Pass
	5240	3.72	11	Pass
802.11n40	5190	0.82	11	Pass
	5230	0.86	11	Pass
802.11ac20	5180	2.92	11	Pass
	5200	2.60	11	Pass
	5240	2.46	11	Pass
802.11ac40	5190	-0.04	11	Pass
	5230	0.03	11	Pass
802.11ac80	5210	-2.29	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	1.81	-5.18	30	Pass
	5785	2.52	-4.47	30	Pass
	5825	1.53	-5.46	30	Pass
802.11n40	5755	-0.69	-7.68	30	Pass
	5795	-0.36	-7.35	30	Pass
802.11ac20	5745	2.63	-5.17	30	Pass
	5785	2.16	-4.95	30	Pass
	5825	2.01	-5.46	30	Pass
802.11ac40	5755	-0.86	-7.85	30	Pass
	5795	-0.43	-7.42	30	Pass
802.11ac80	5775	-3.36	-10.35	30	Pass

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

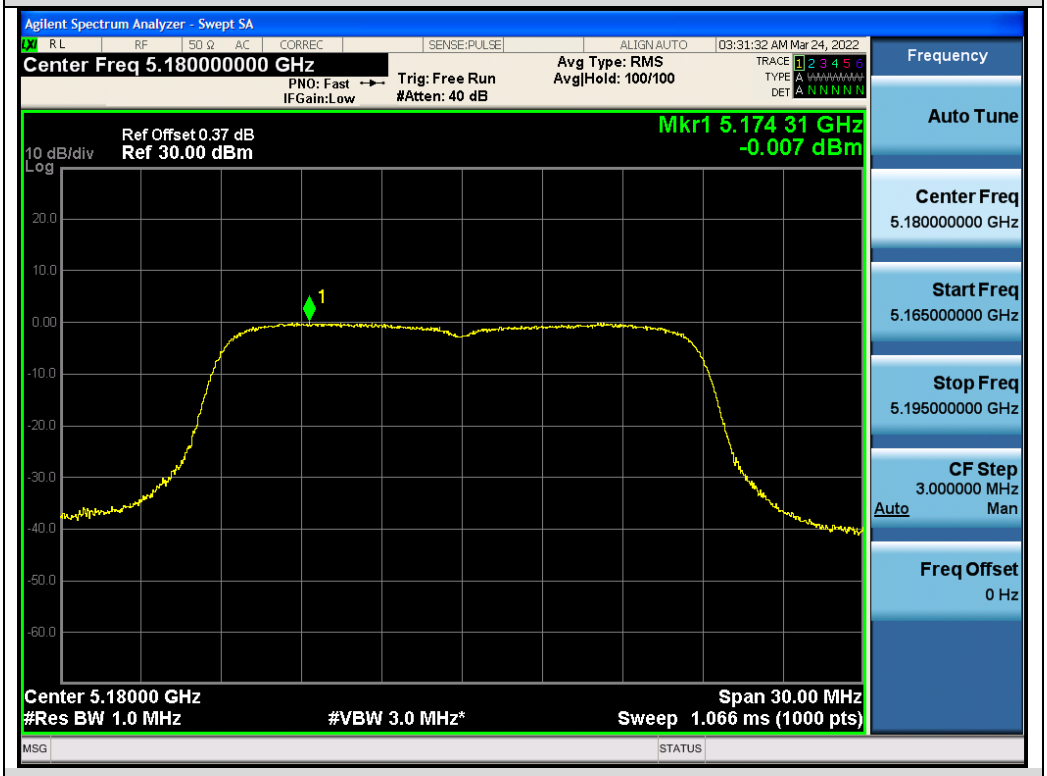


Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

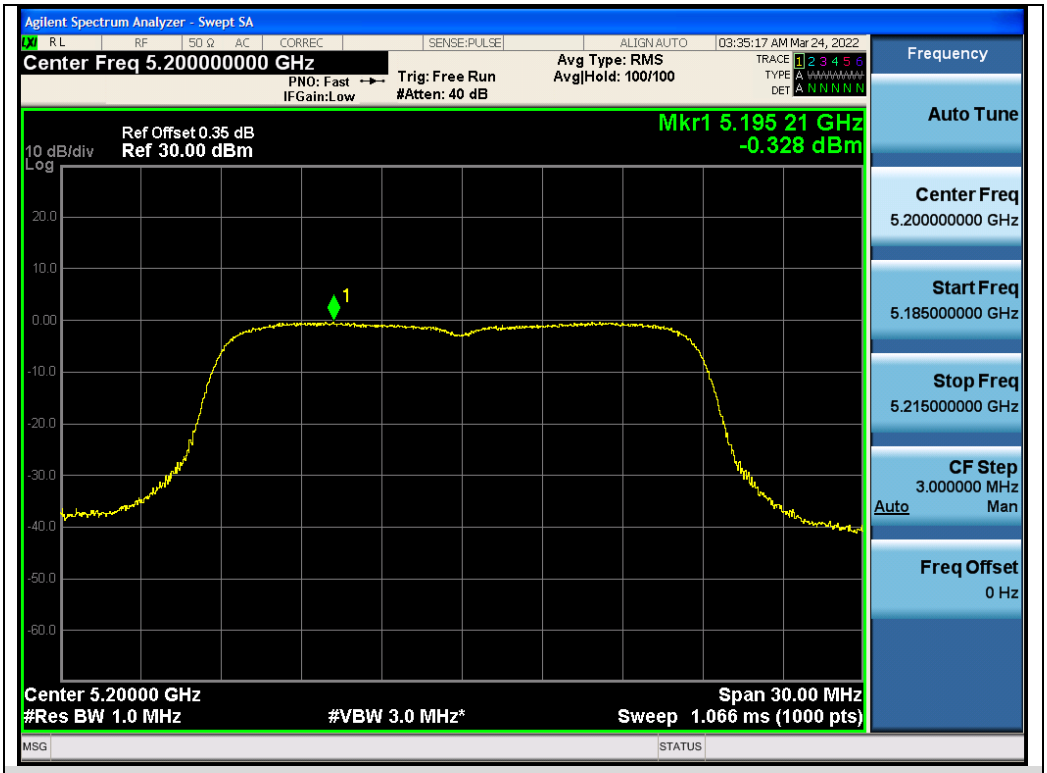


Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

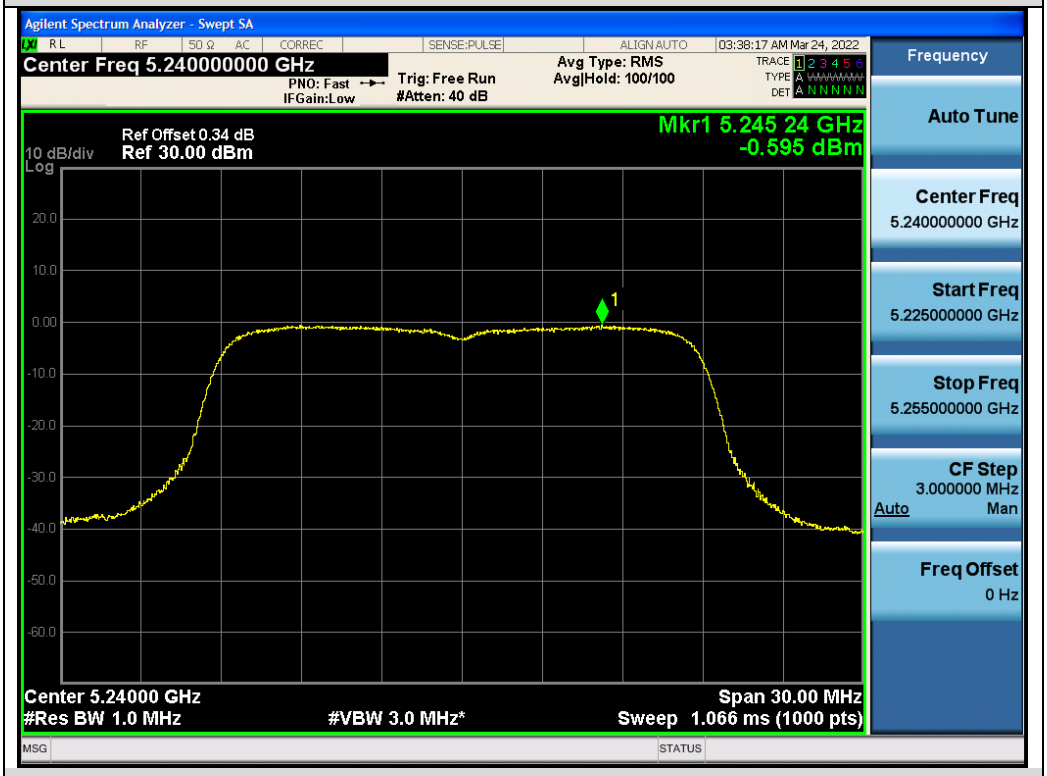
Test_Graph_802.11a_ANT1_5240_6Mbps_PSD



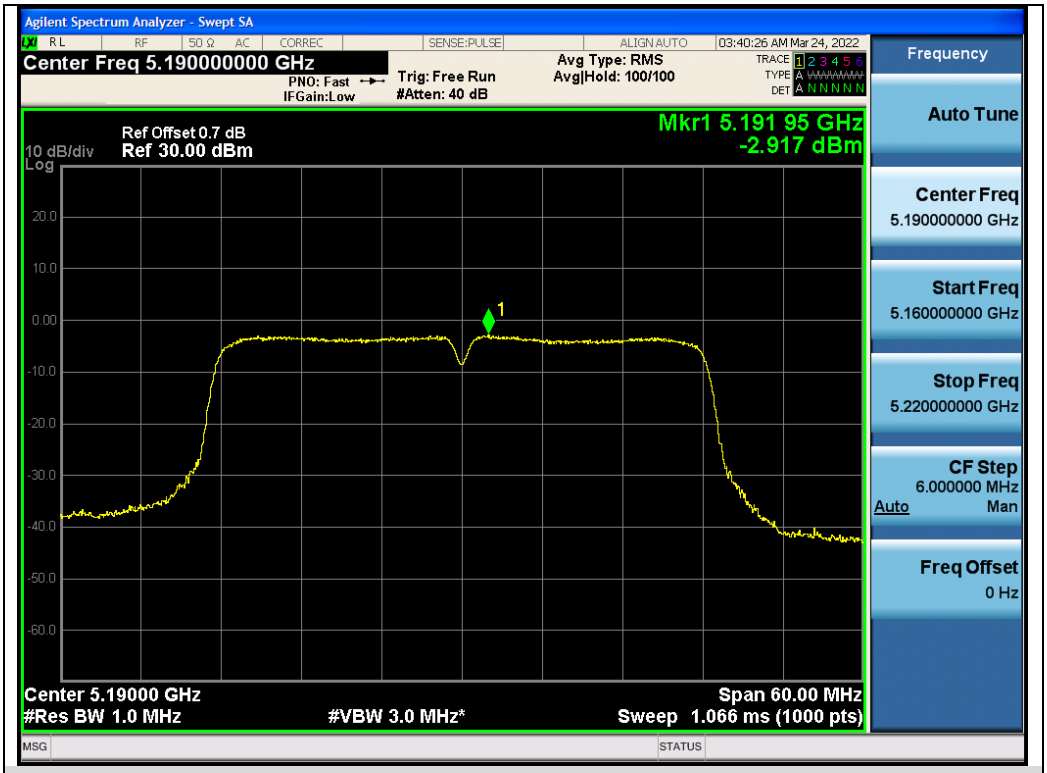
Test_Graph_802.11n20_ANT1_5180_MCS0_PSD



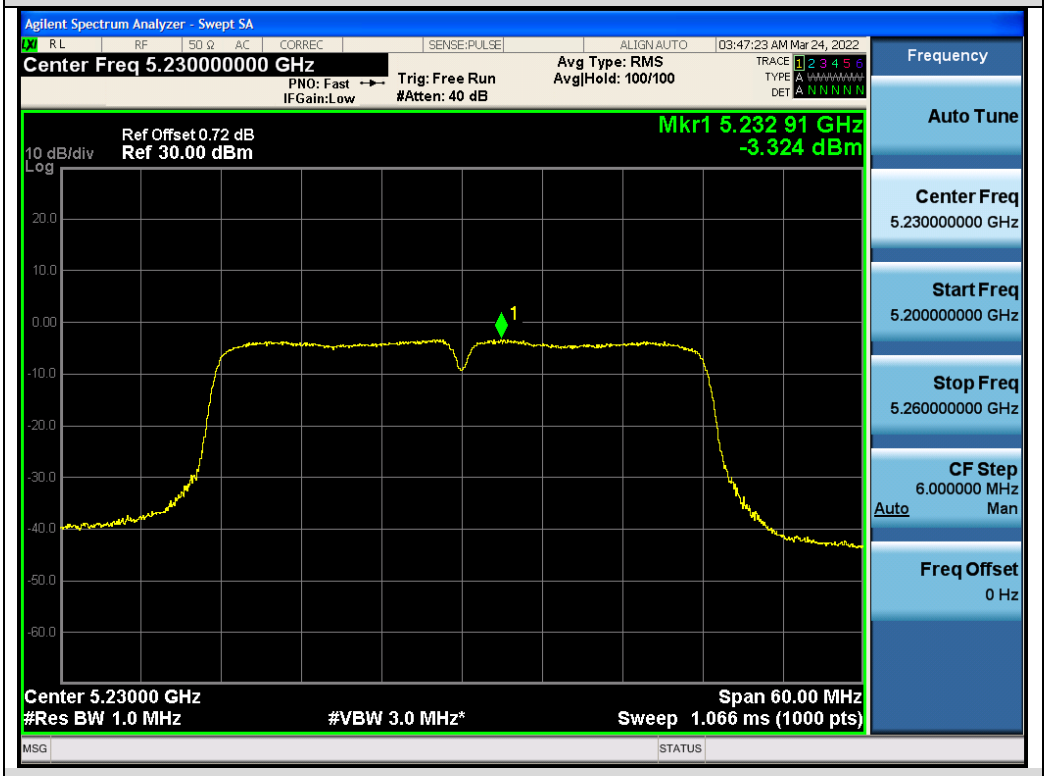
Test_Graph_802.11n20_ANT1_5200_MCS0_PSD



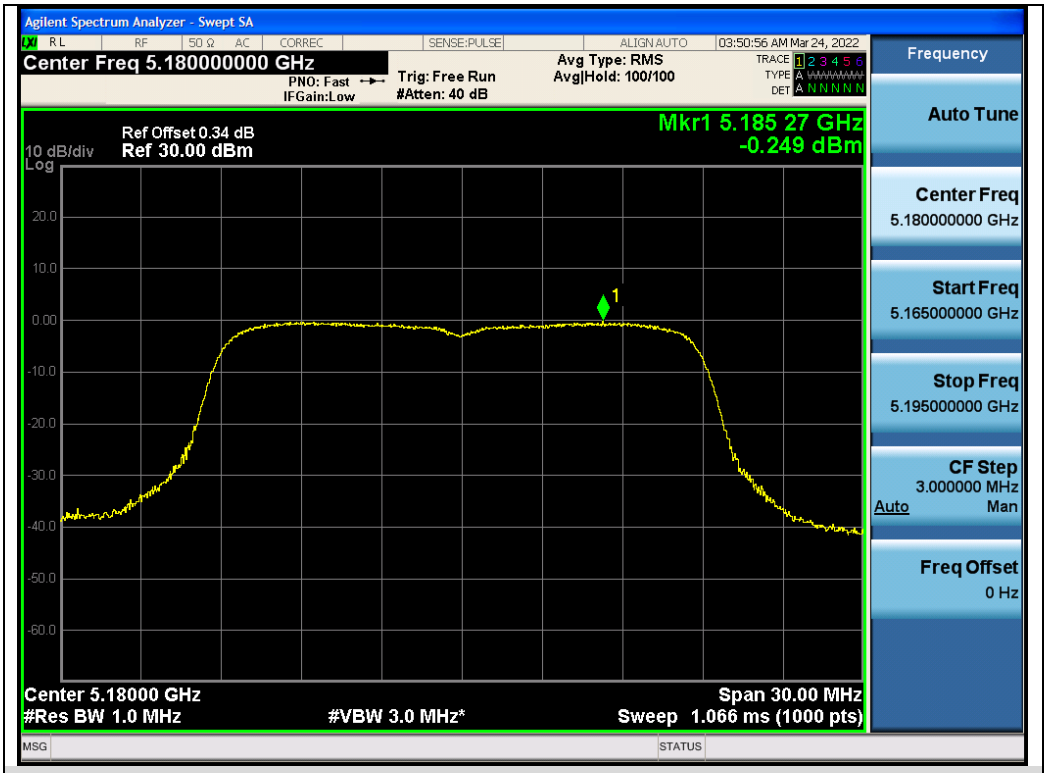
Test_Graph_802.11n20_ANT1_5240_MCS0_PSD



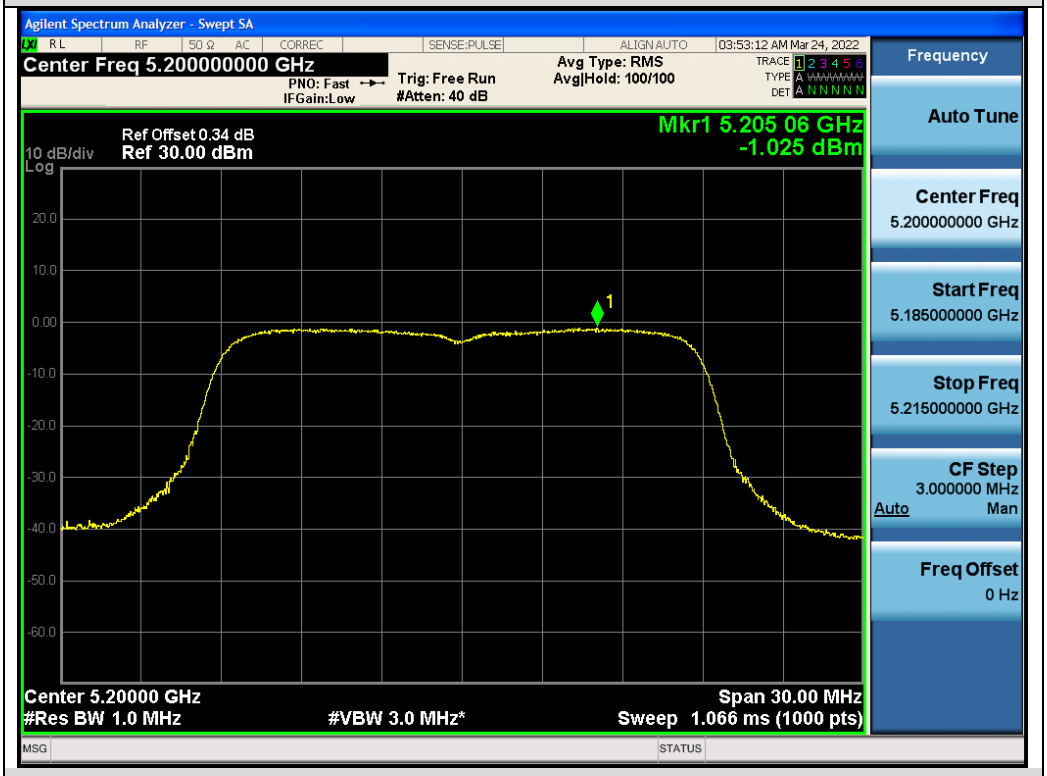
Test_Graph_802.11n40_ANT1_5190_MCS0_PSD



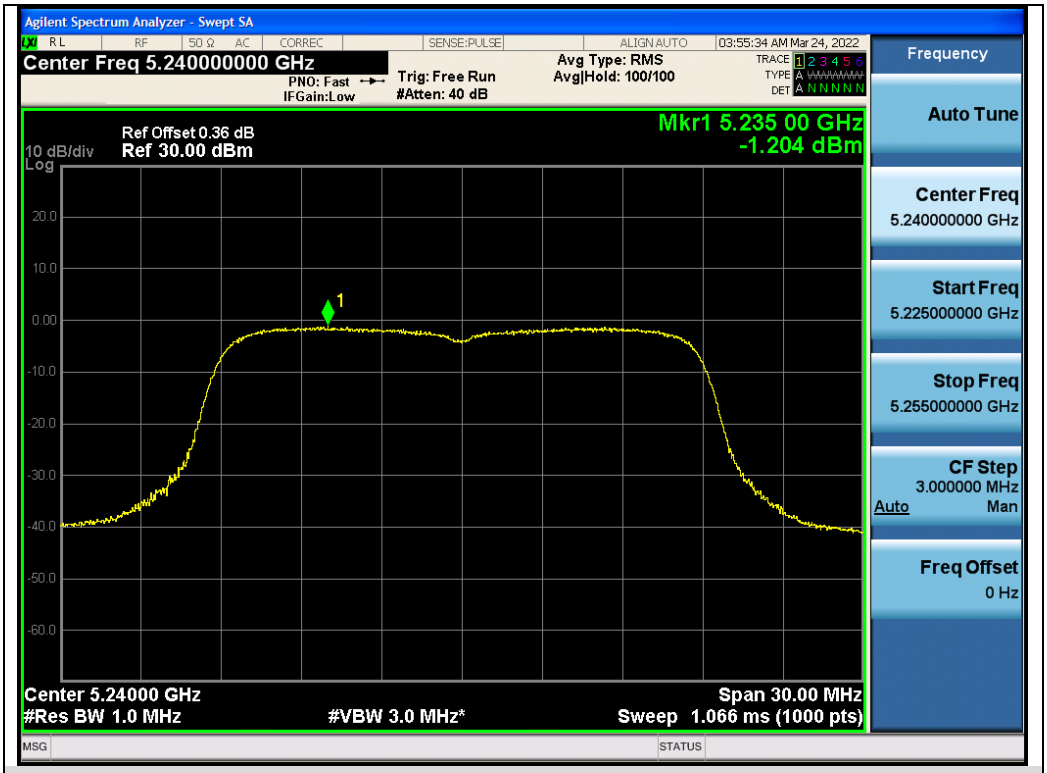
Test_Graph_802.11n40_ANT1_5230_MCS0_PSD



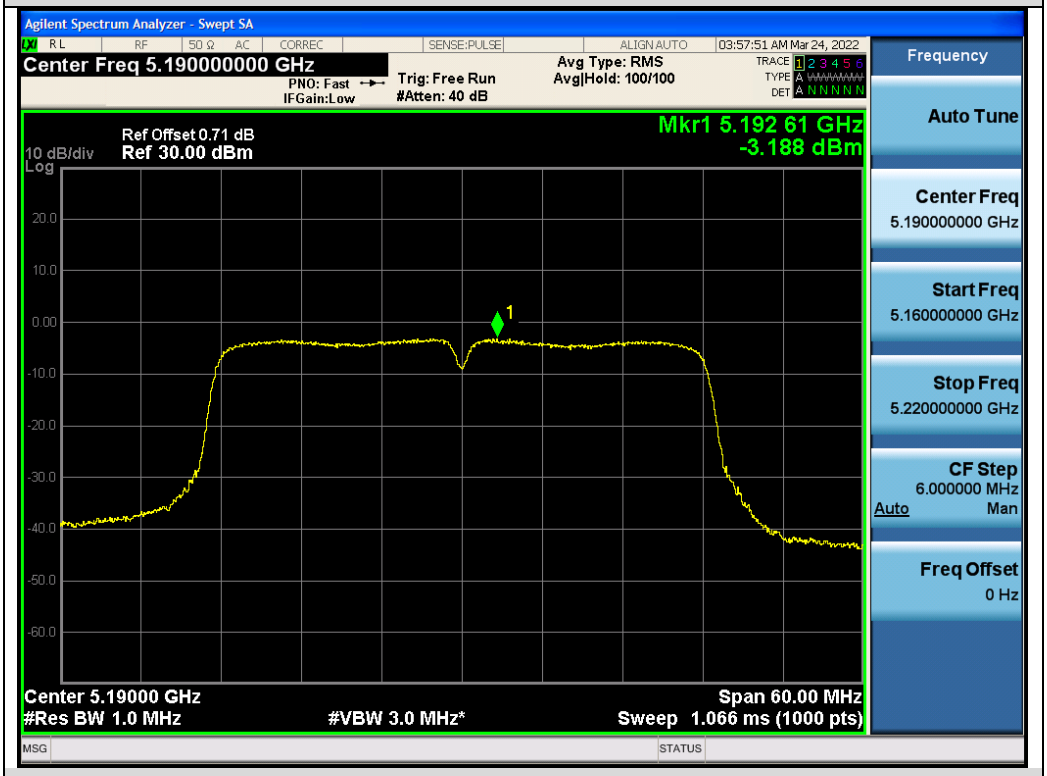
Test_Graph_802.11ac20_ANT1_5180_MCS0_PSD



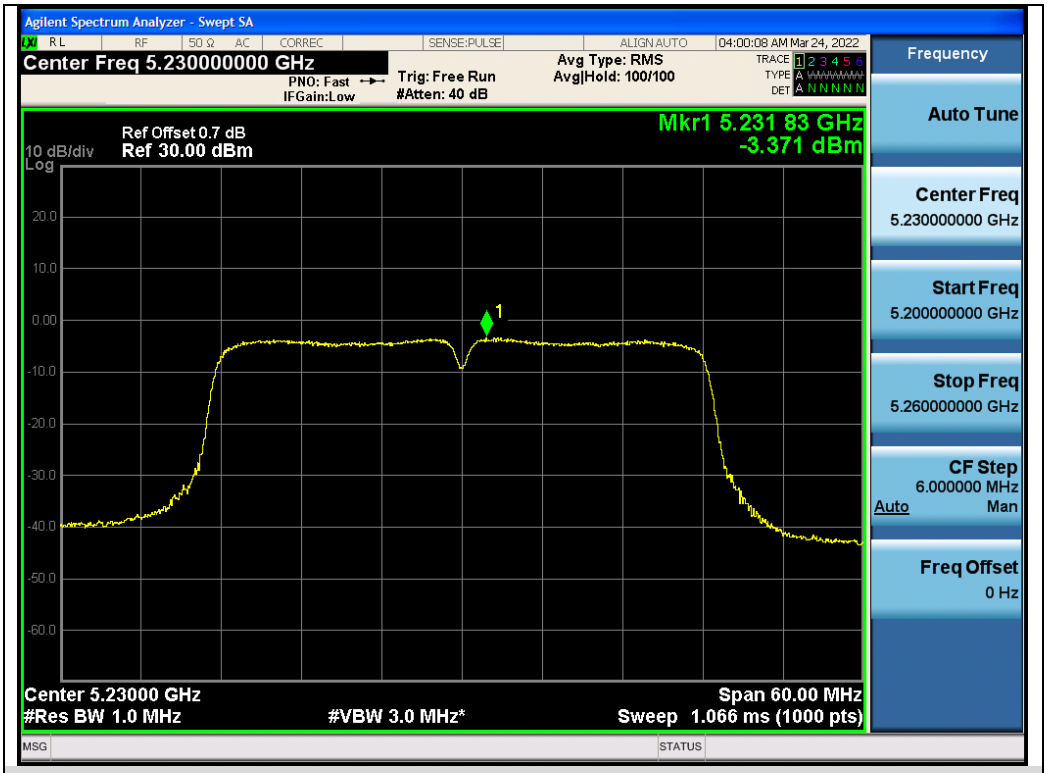
Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD



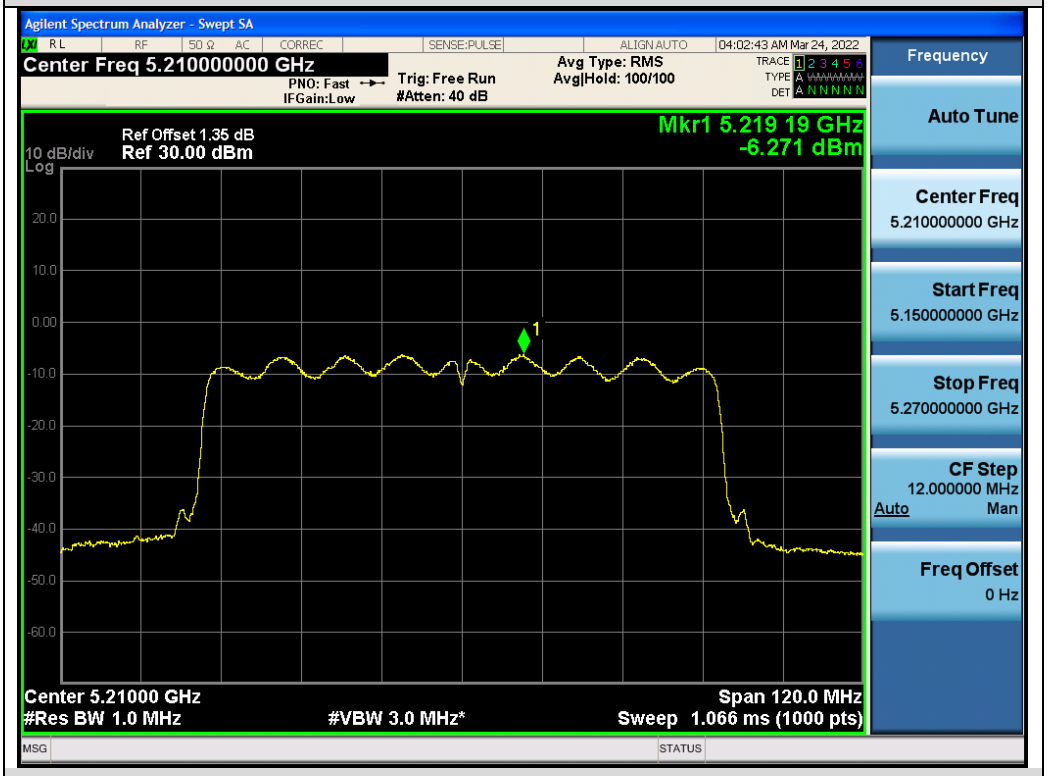
Test_Graph_802.11ac20_ANT1_5240_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5190_MCS9_PSD

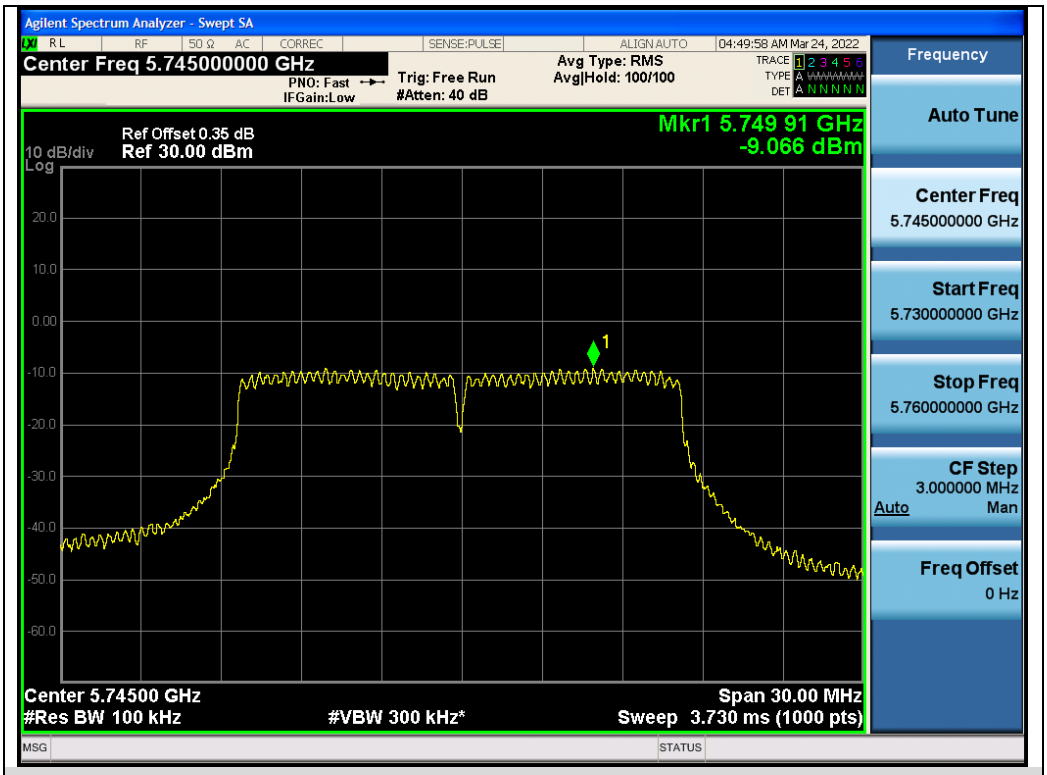


Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD

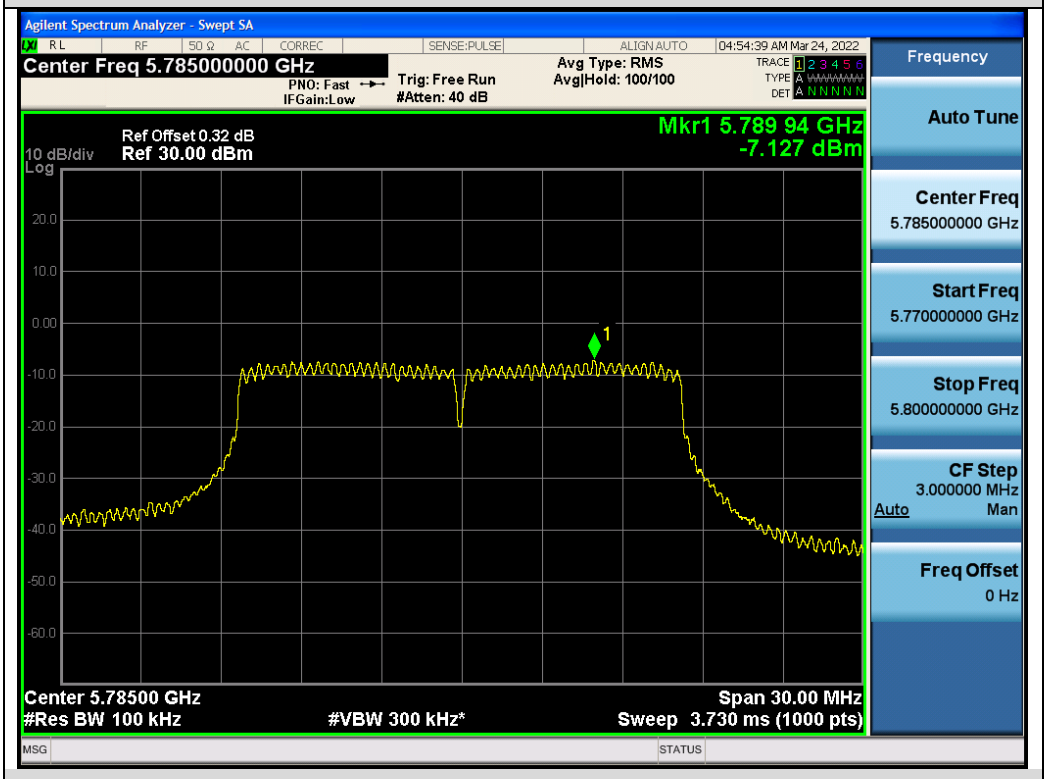


Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD

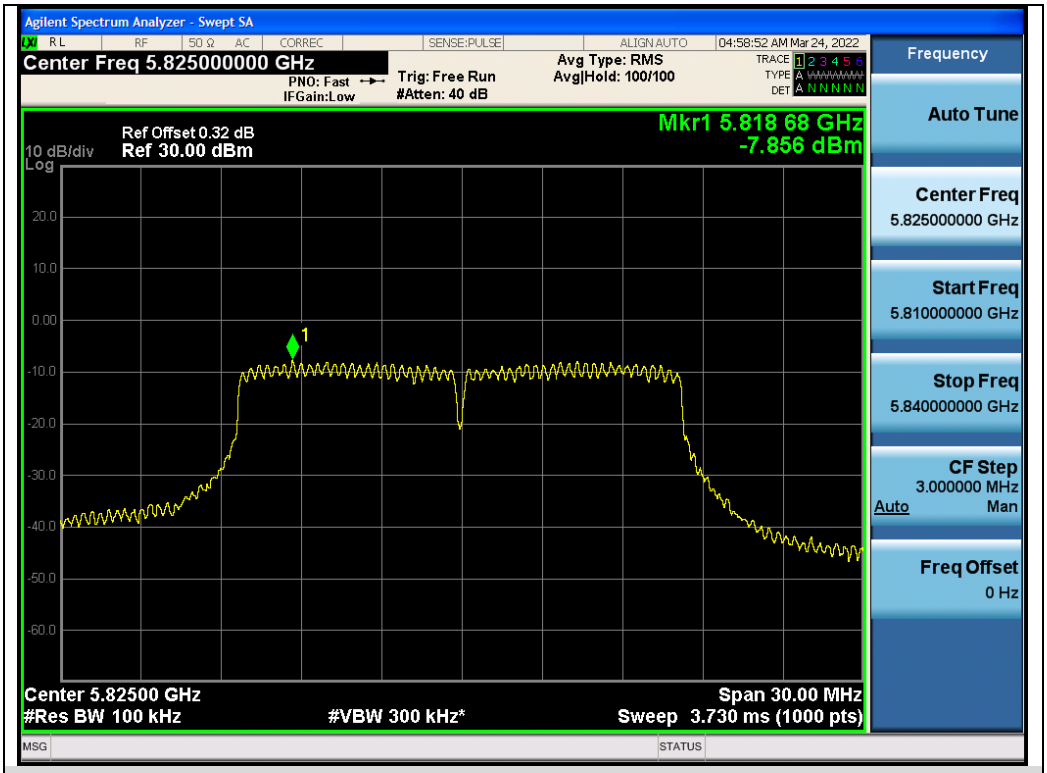
Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



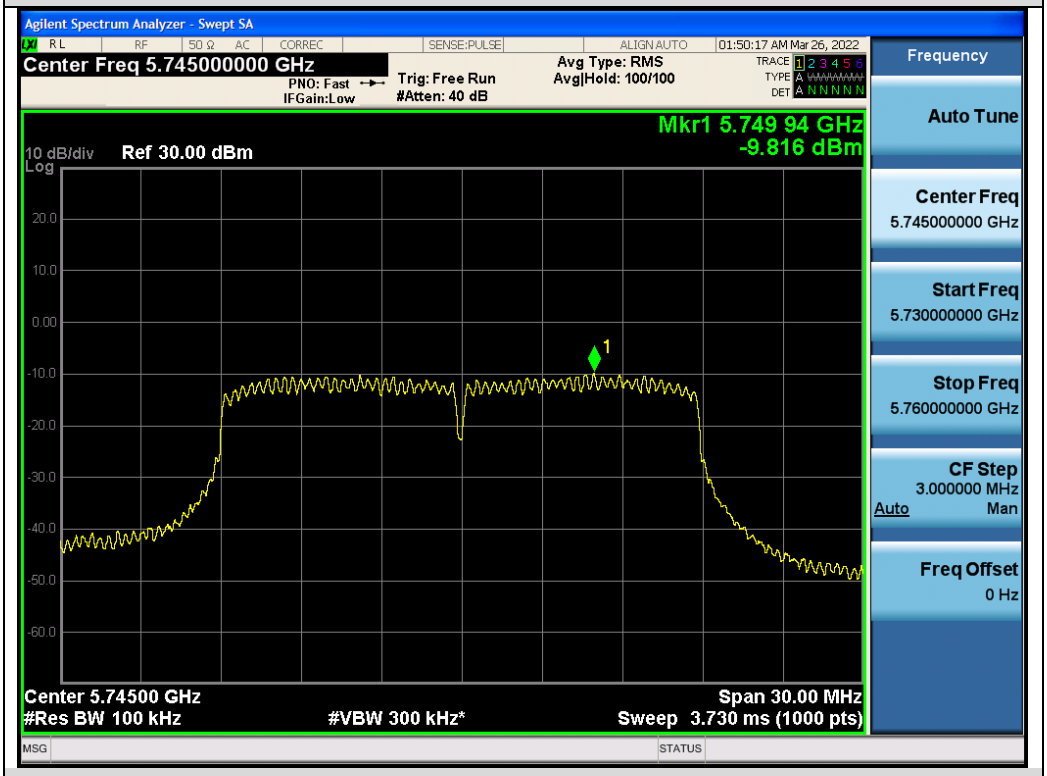
Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



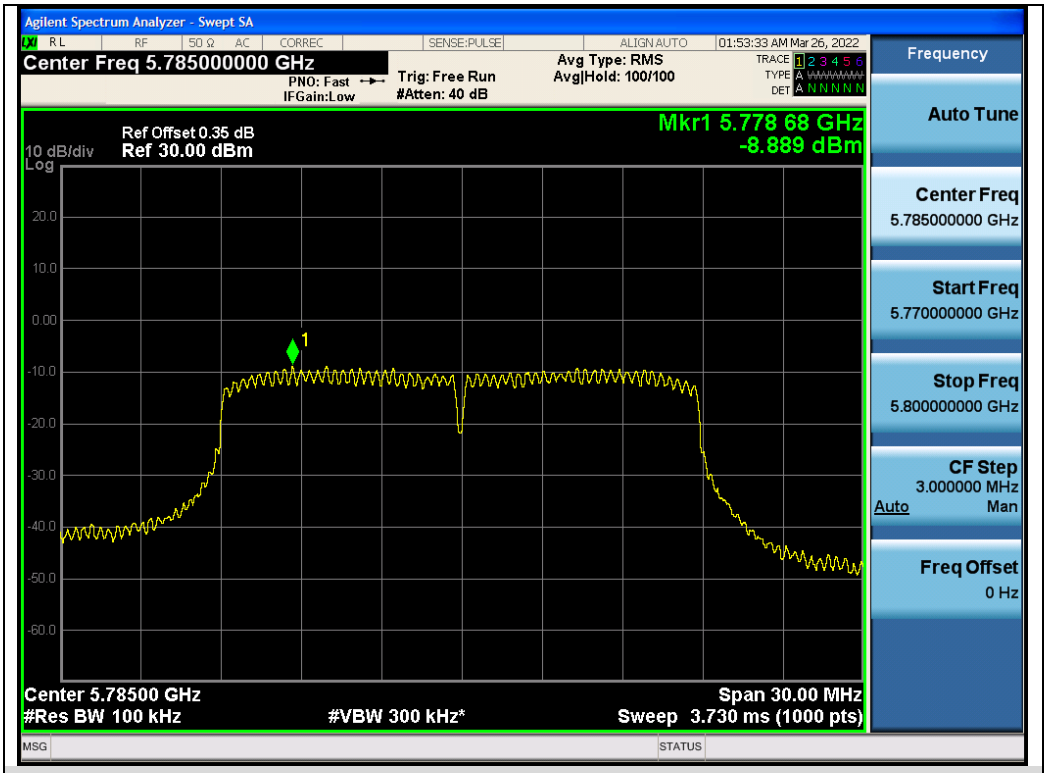
Test_Graph_802.11a_ANT1_5785_6Mbps_PSD



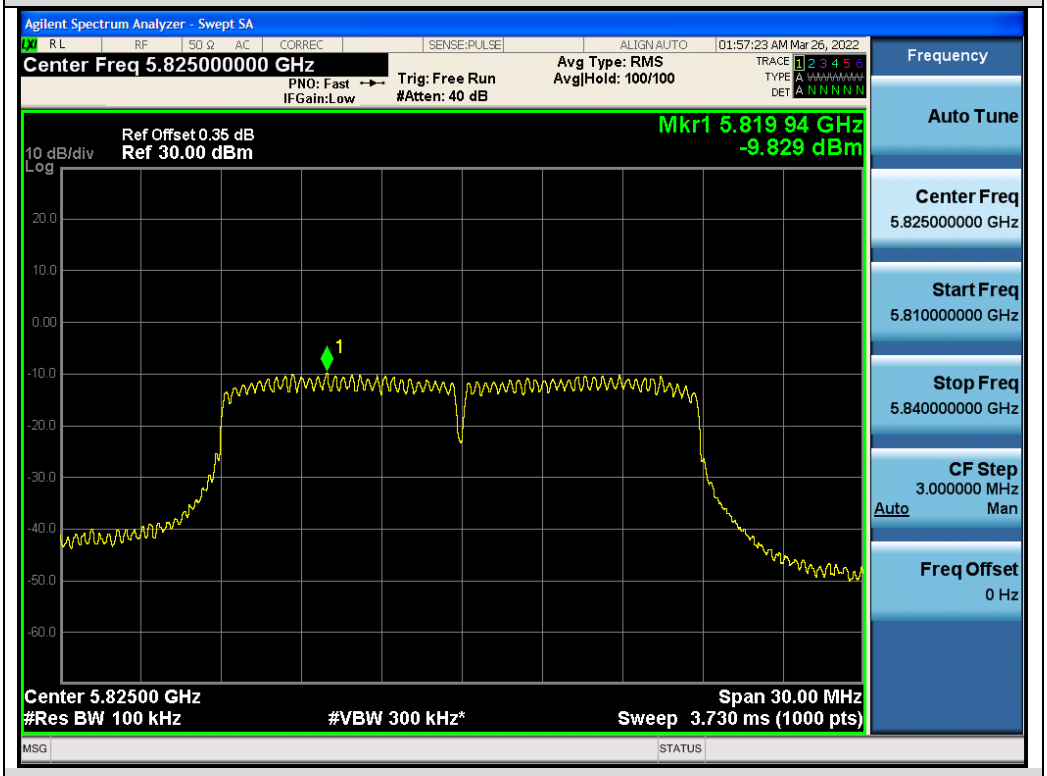
Test_Graph_802.11a_ANT1_5825_6Mbps_PSD



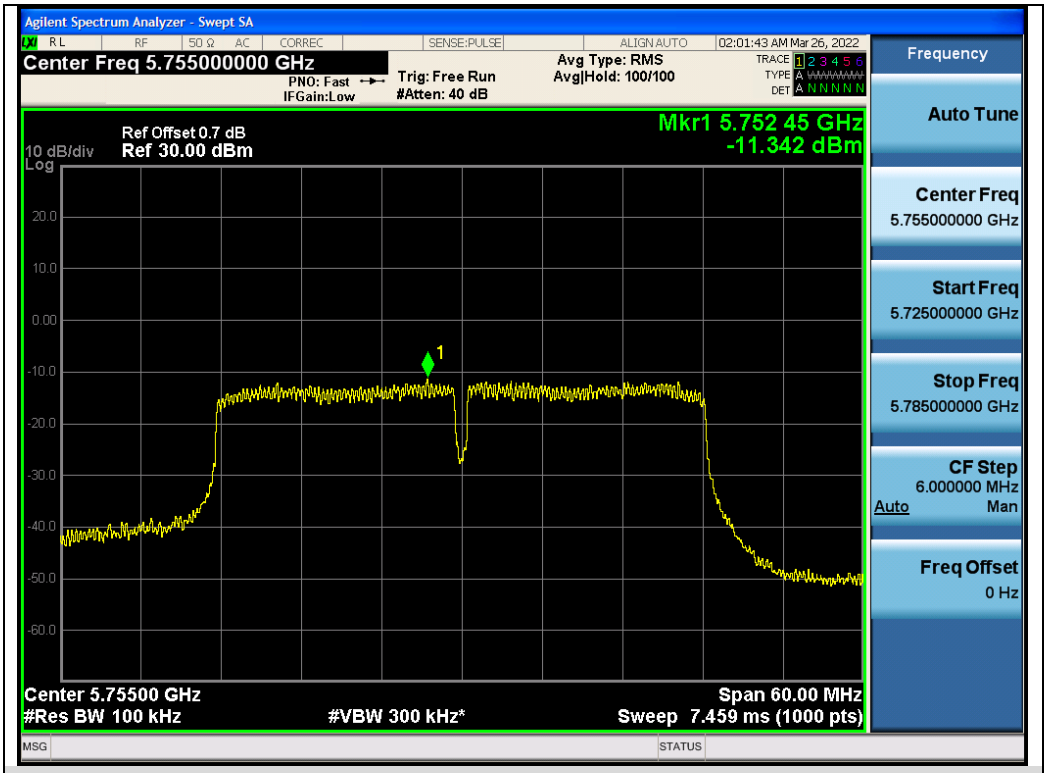
Test_Graph_802.11n20_ANT1_5745_MCS0_PSD



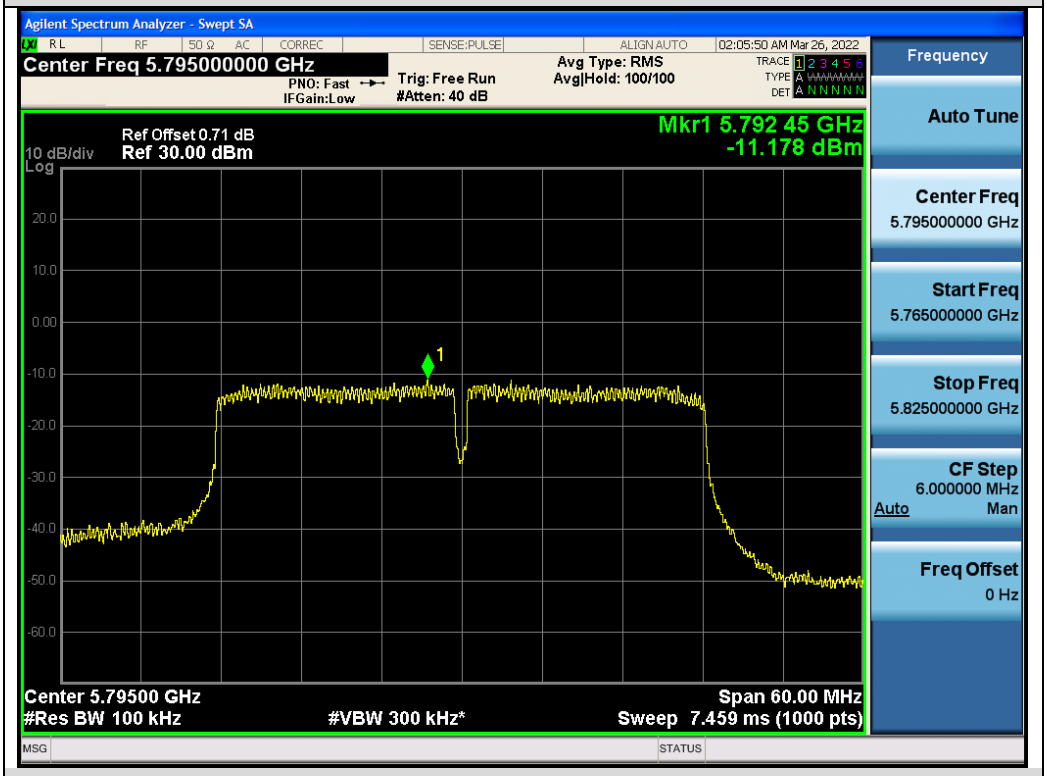
Test_Graph_802.11n20_ANT1_5785_MCS0_PSD



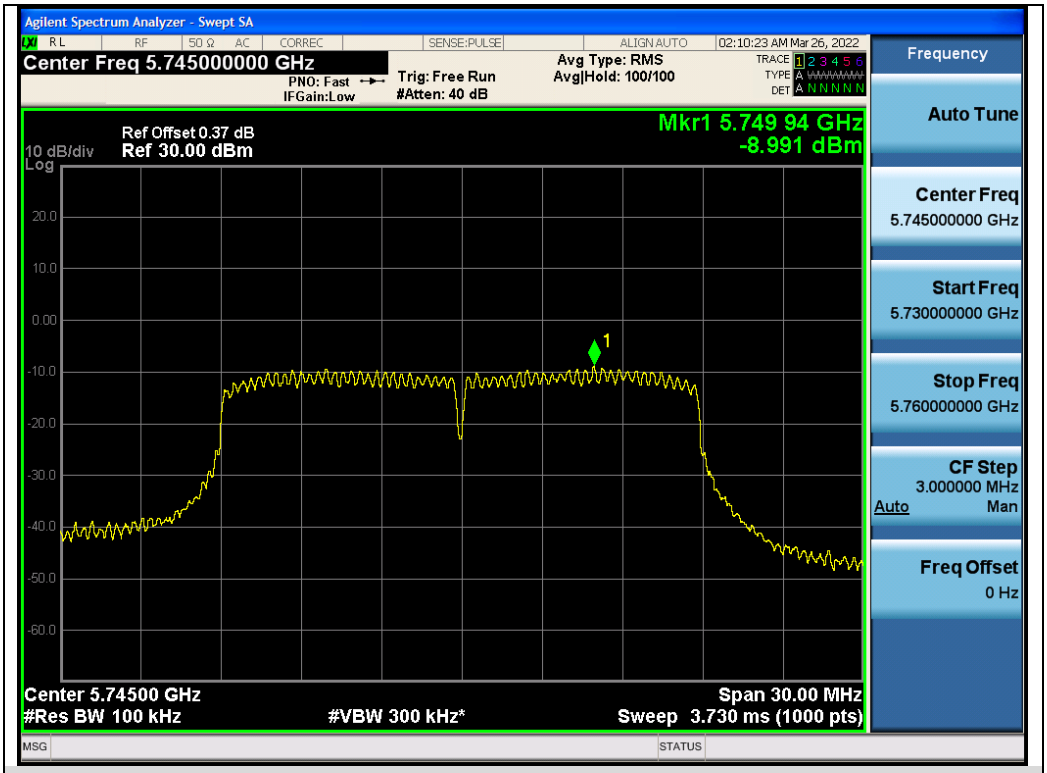
Test_Graph_802.11n20_ANT1_5825_MCS0_PSD



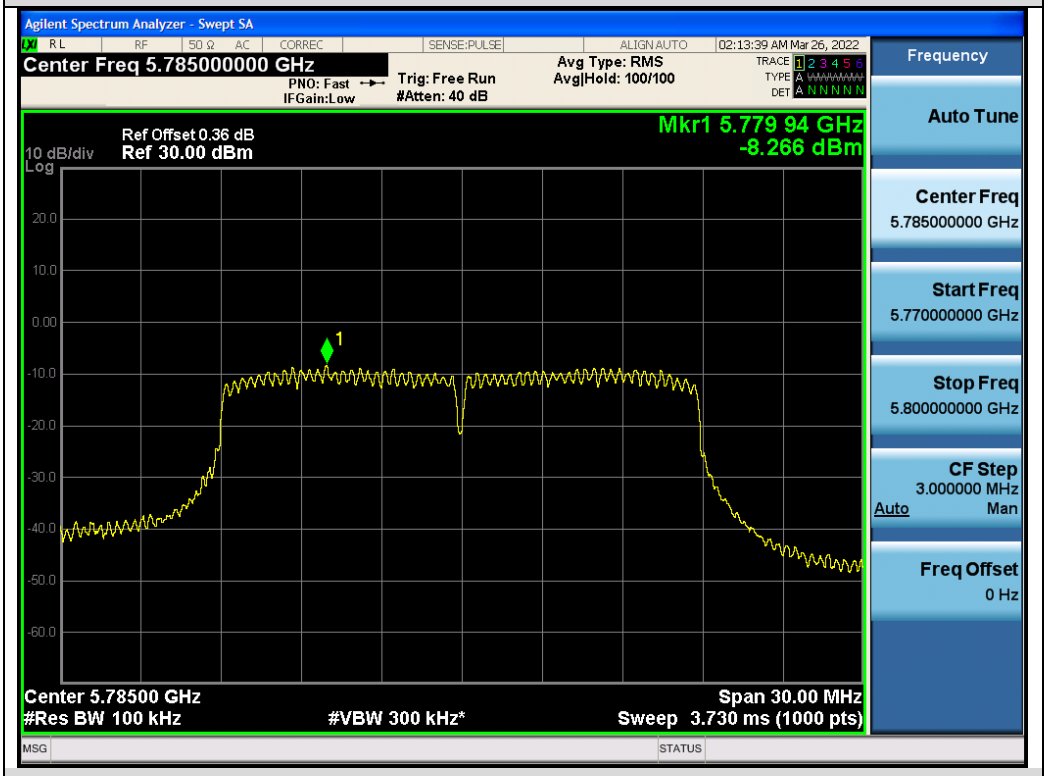
Test_Graph_802.11n40_ANT1_5755_MCS0_PSD



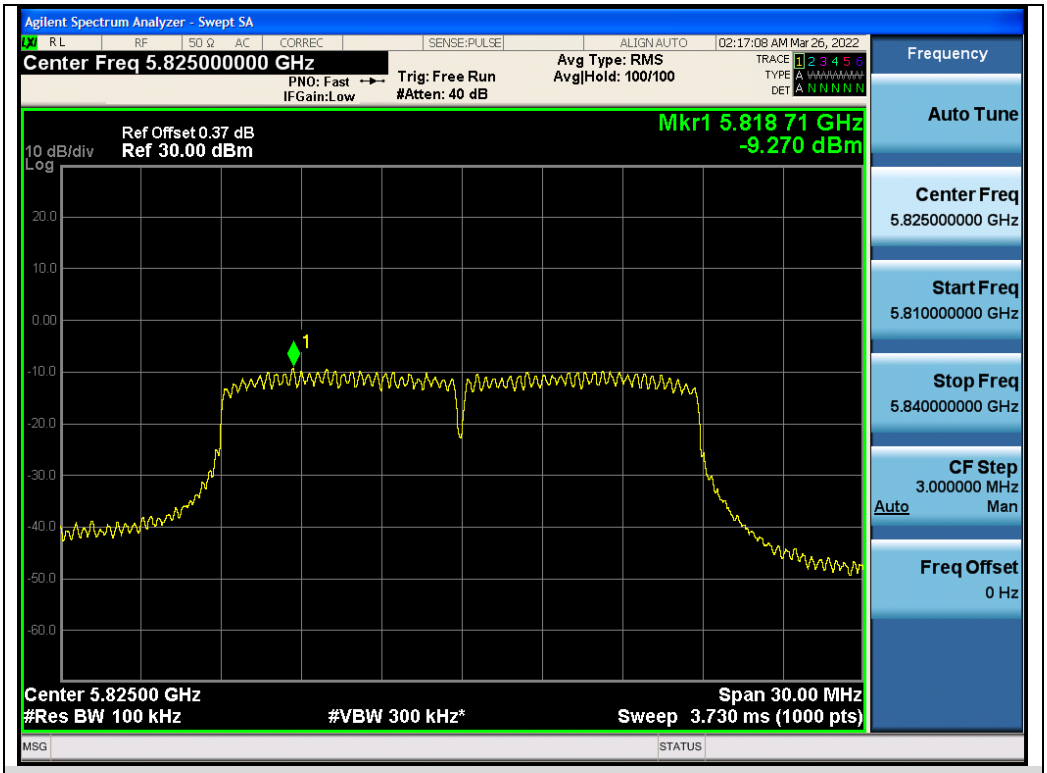
Test_Graph_802.11n40_ANT1_5795_MCS0_PSD



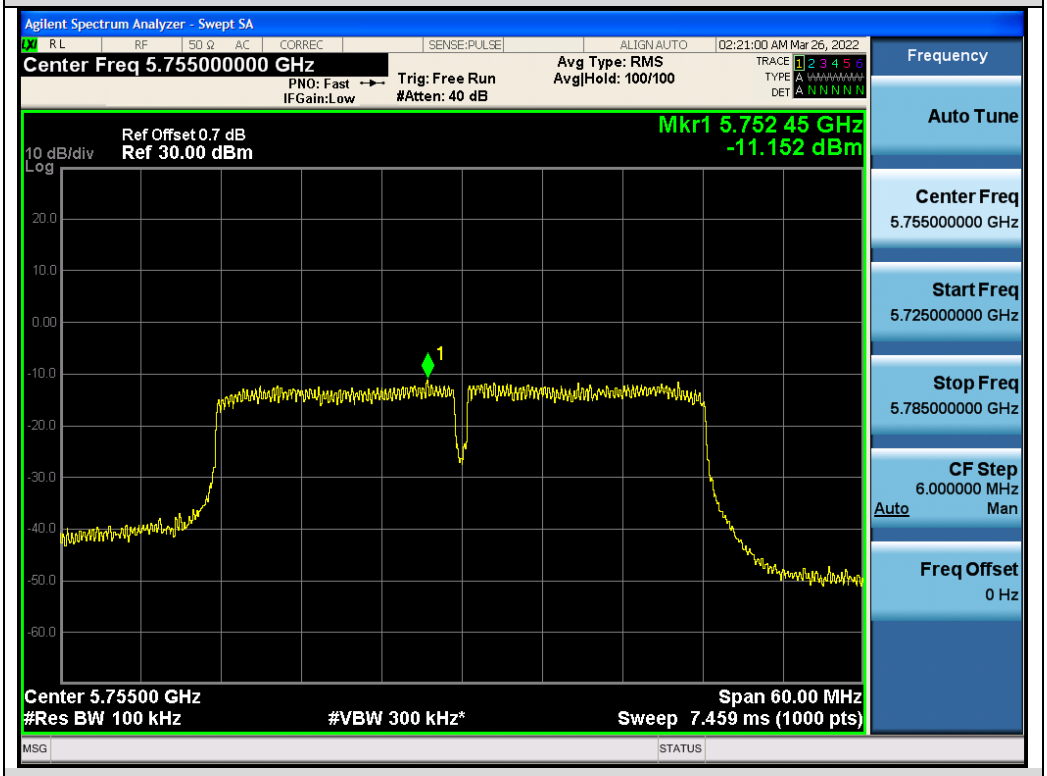
Test_Graph_802.11ac20_ANT1_5745_MCS0_PSD



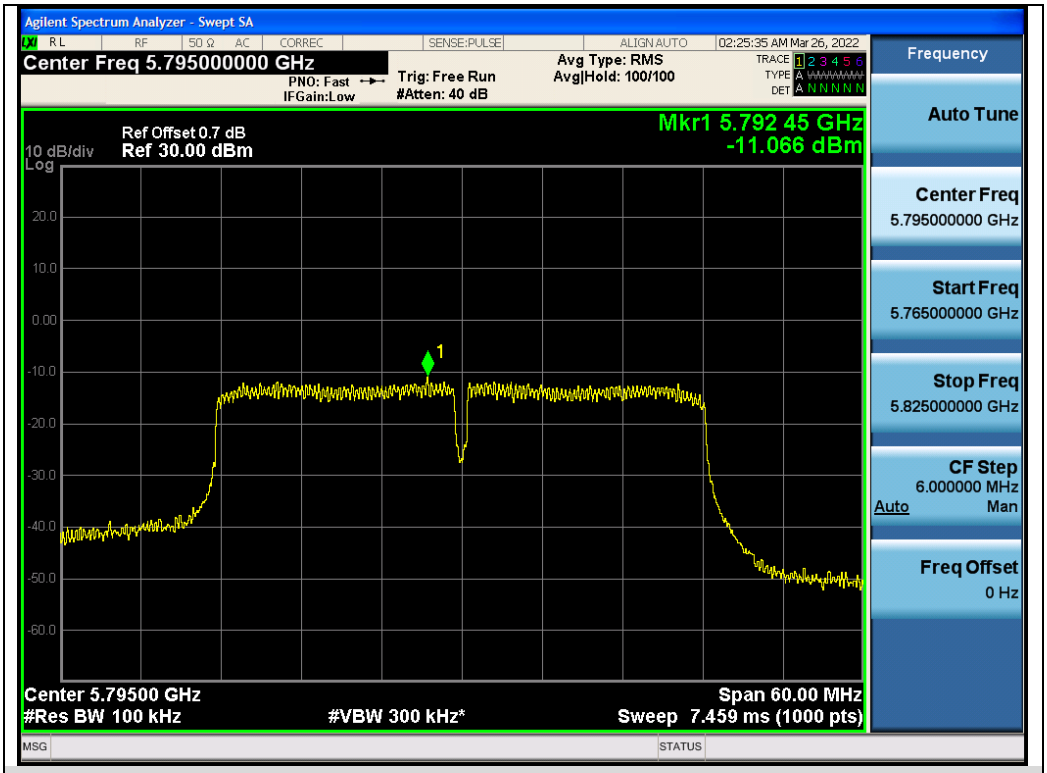
Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD



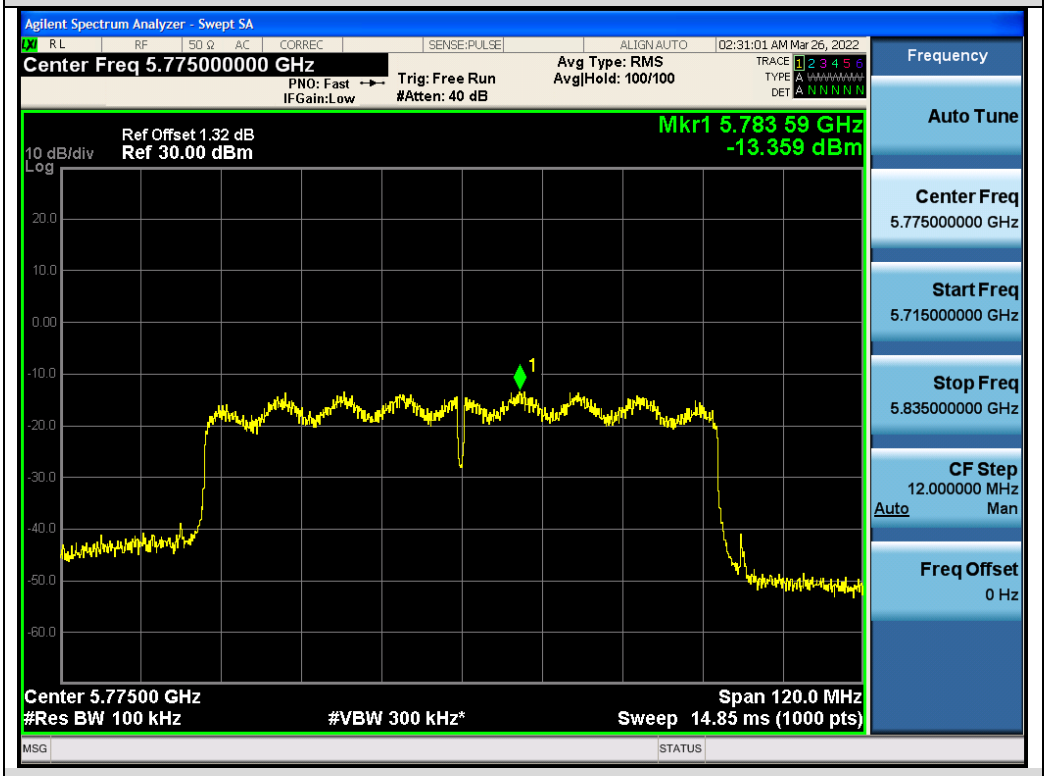
Test_Graph_802.11ac20_ANT1_5825_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD



Test_Graph_802.11ac40_ANT1_5795_MCS9_PSD



Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD

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

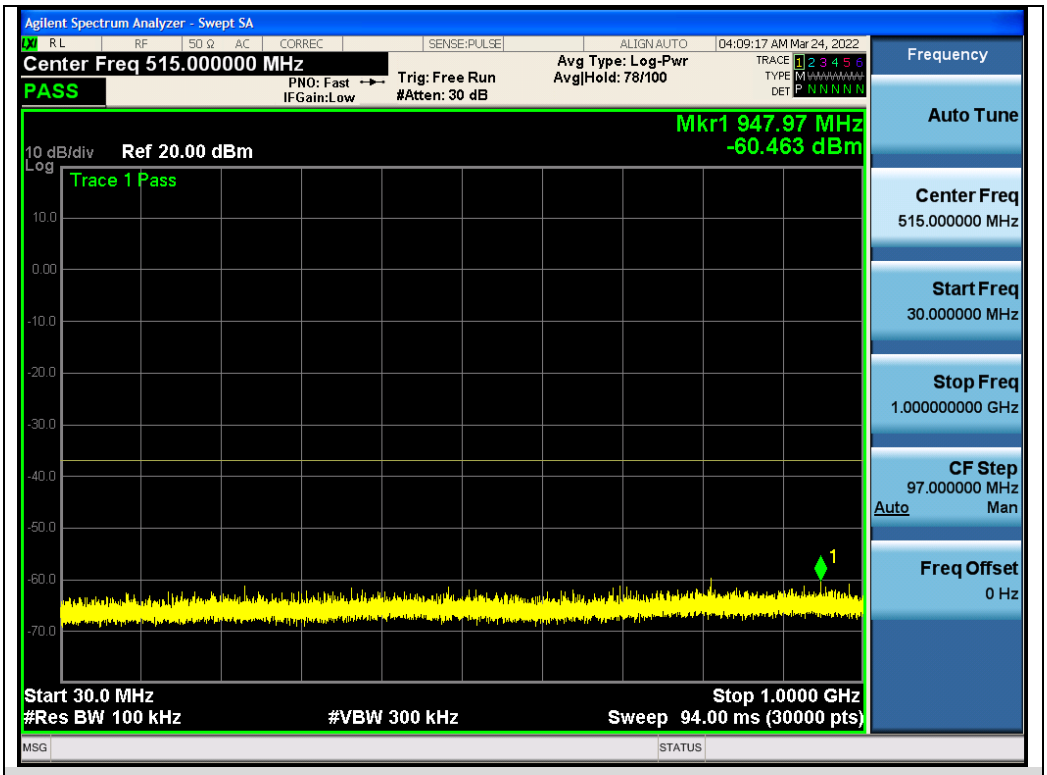
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

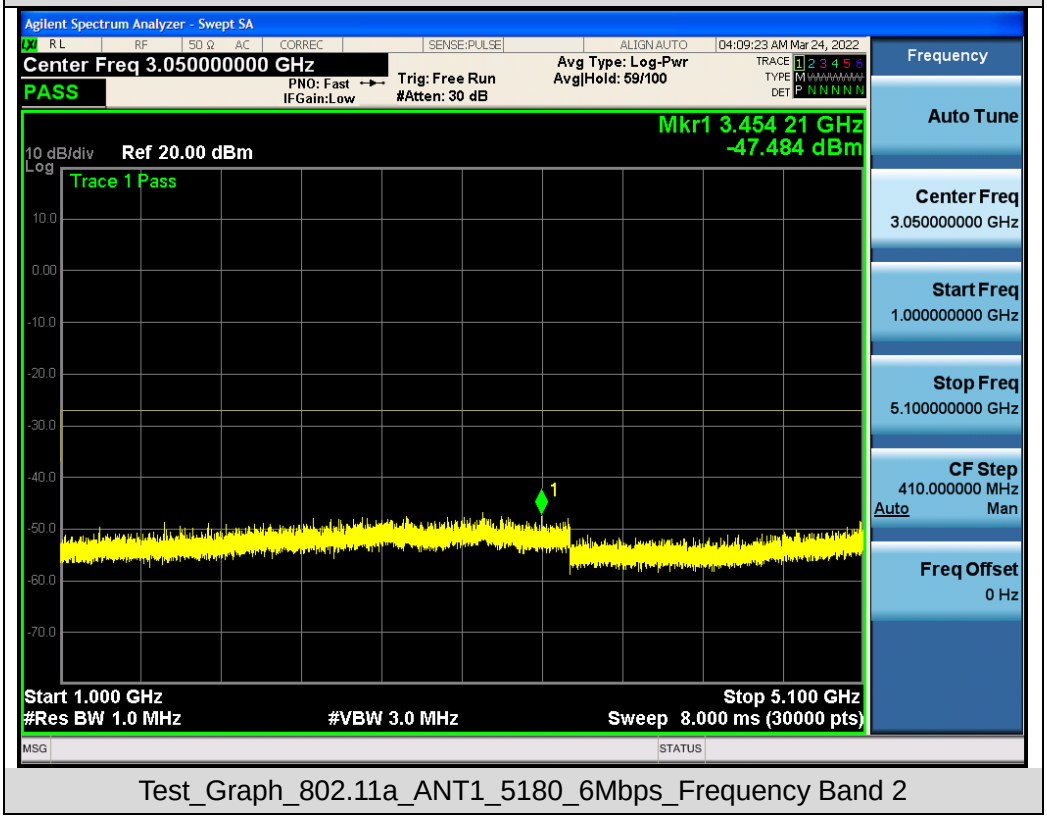
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	**Measurement Result**	
	Test channel	**Criteria**
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band 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.

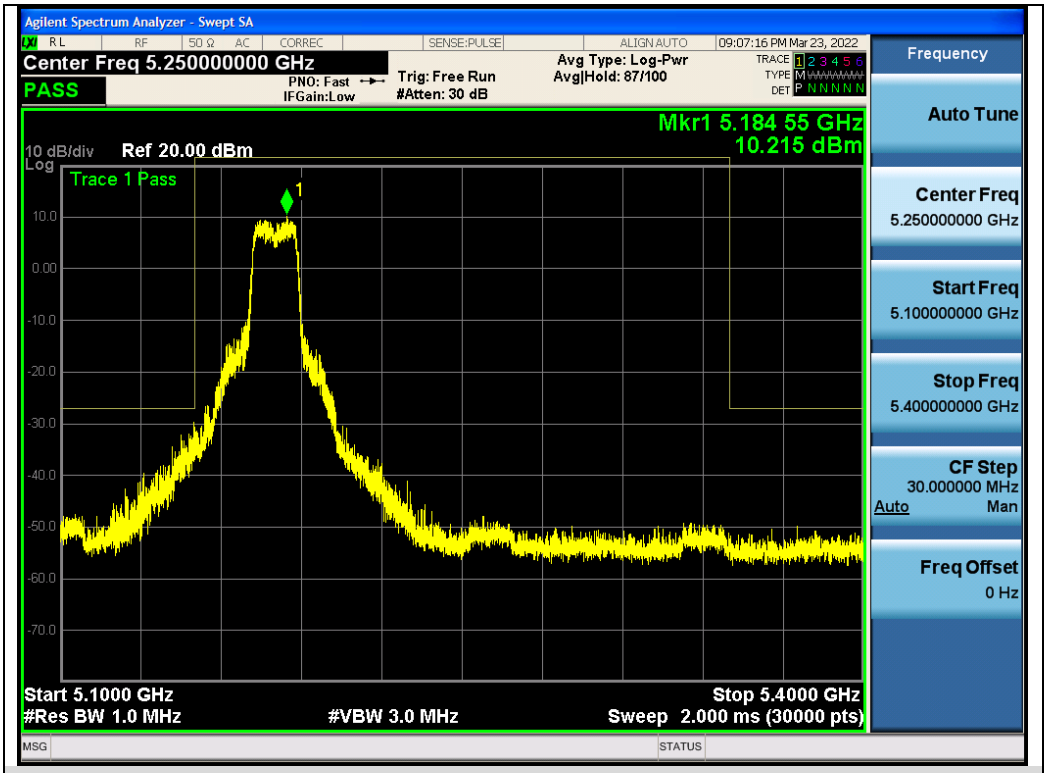
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



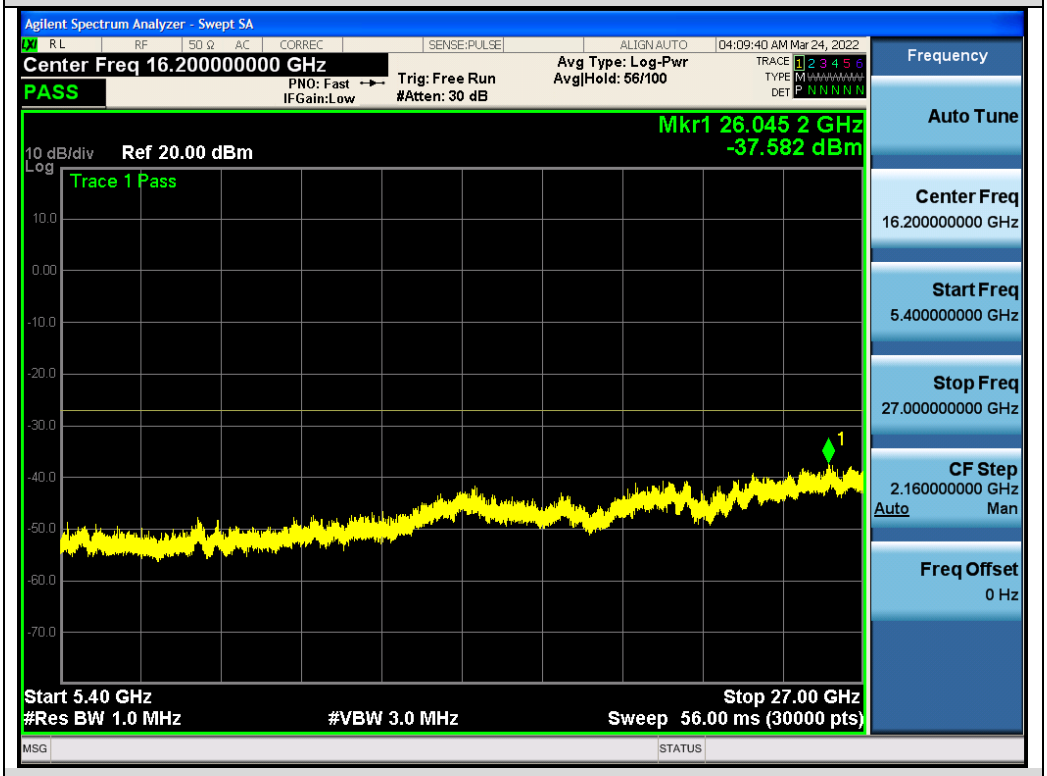
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 1



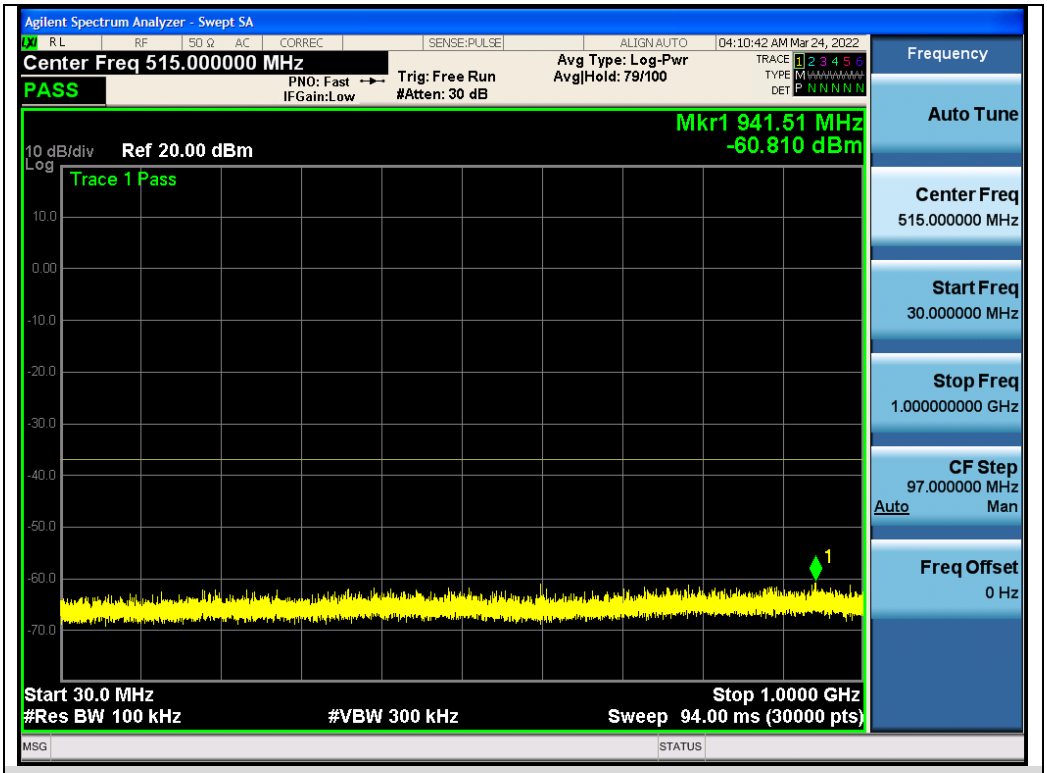
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 2



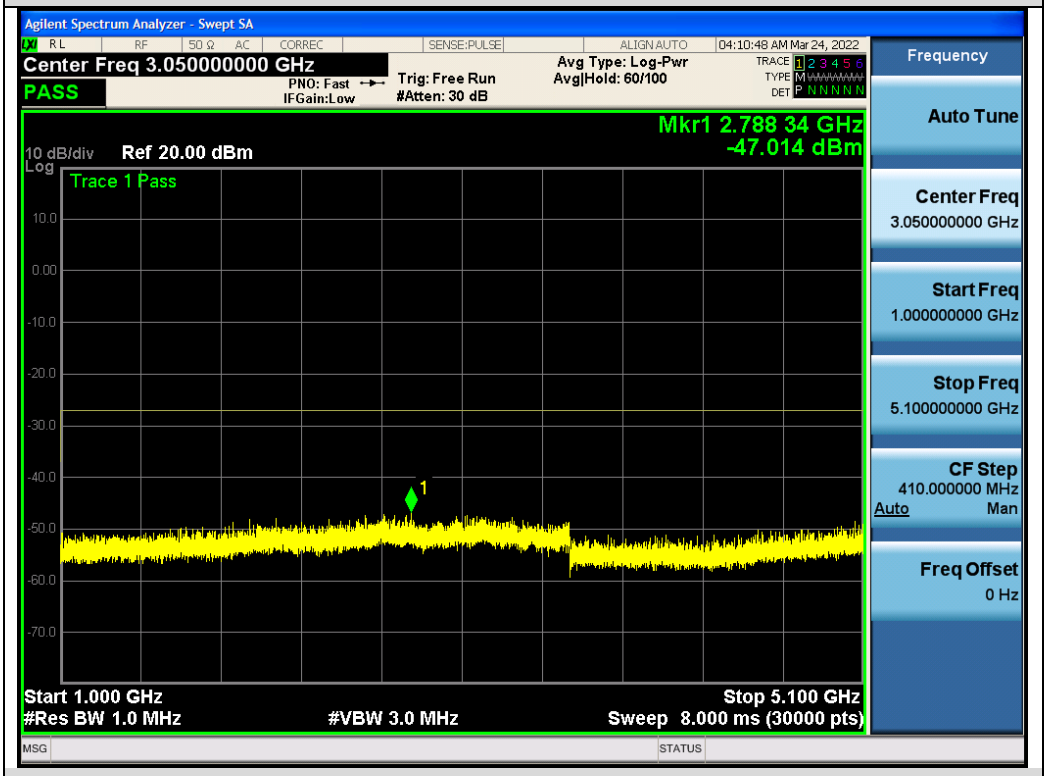
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 3



Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 4



Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 1



Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 2