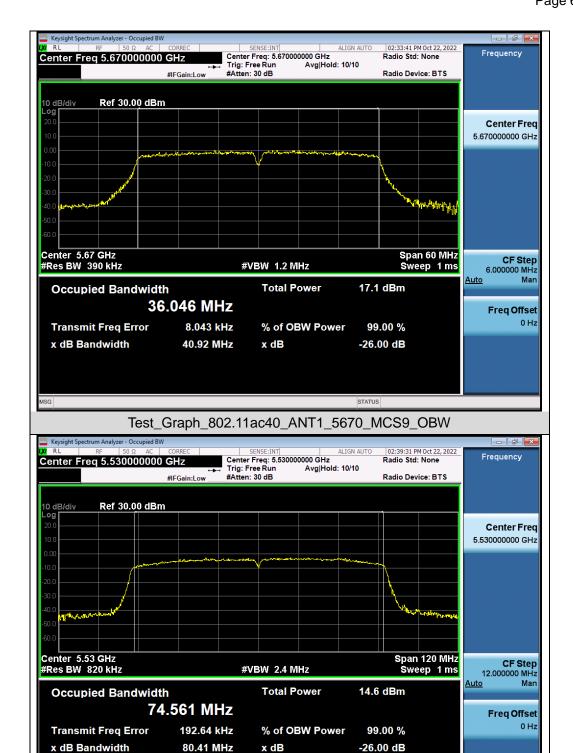


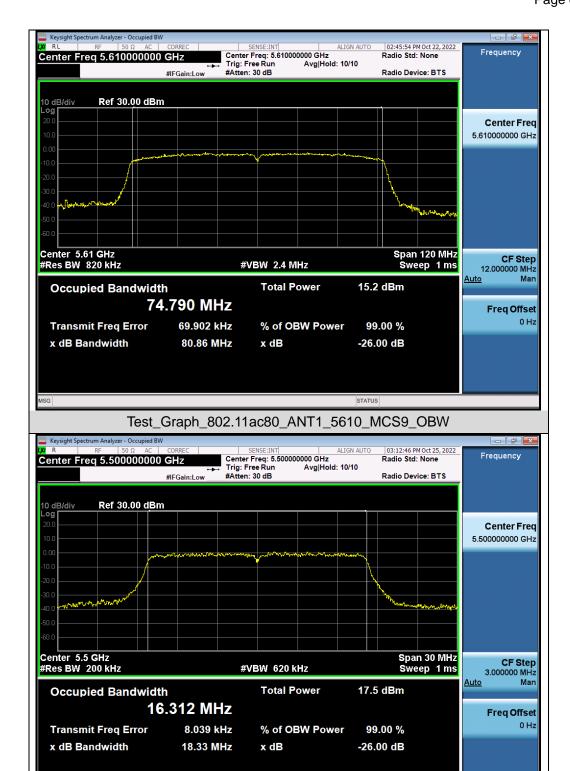
Test Graph 802.11ac40 ANT1 5590 MCS9 OBW





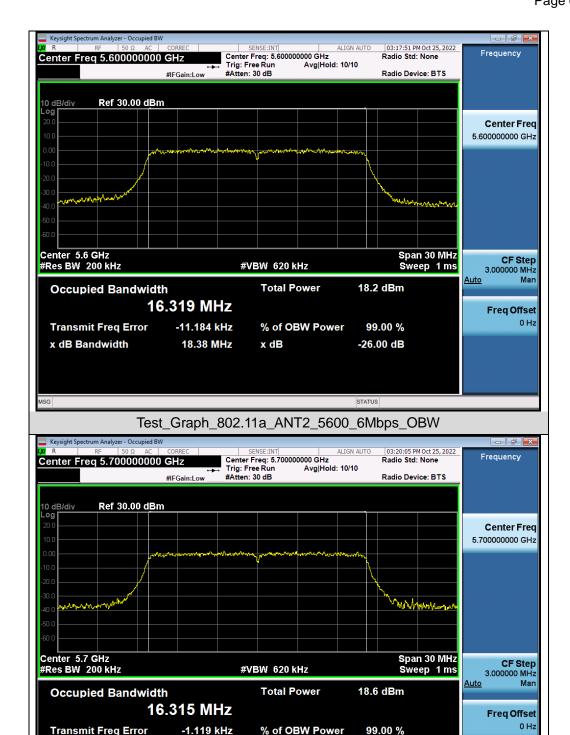
Test_Graph_802.11ac80_ANT1_5530_MCS9_OBW





Test_Graph_802.11a_ANT2_5500_6Mbps_OBW





x dB

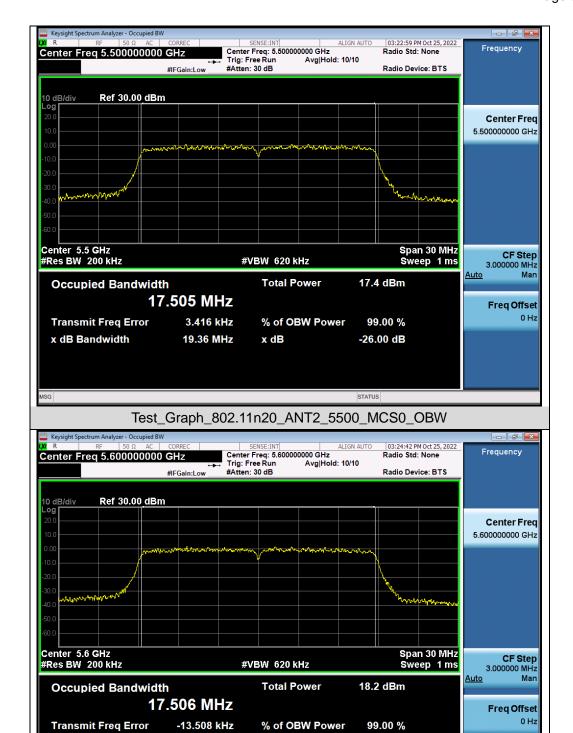
Test_Graph_802.11a_ANT2_5700_6Mbps_OBW

-26.00 dB

18.31 MHz

x dB Bandwidth





x dB

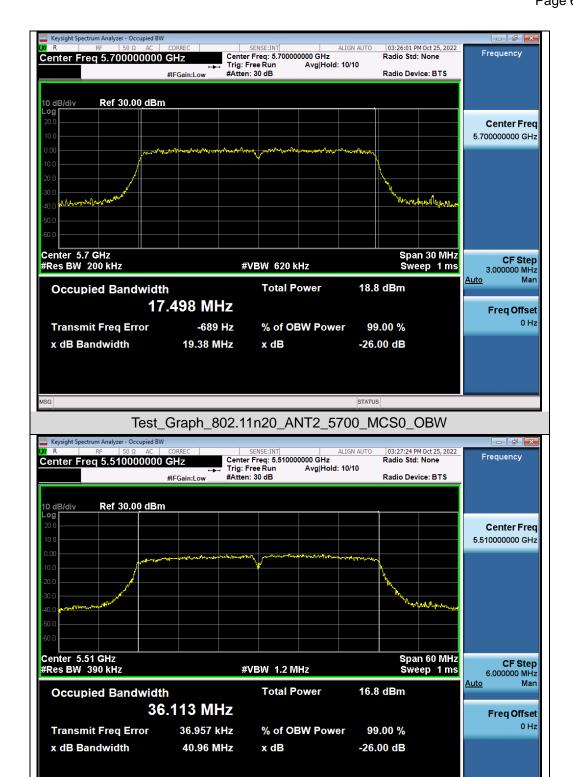
Test_Graph_802.11n20_ANT2_5600_MCS0_OBW

-26.00 dB

19.39 MHz

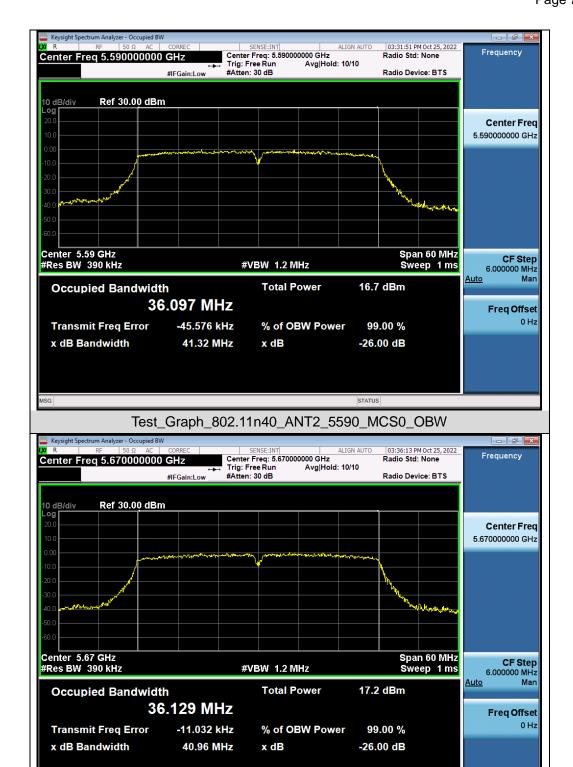
x dB Bandwidth





Test_Graph_802.11n40_ANT2_5510_MCS0_OBW

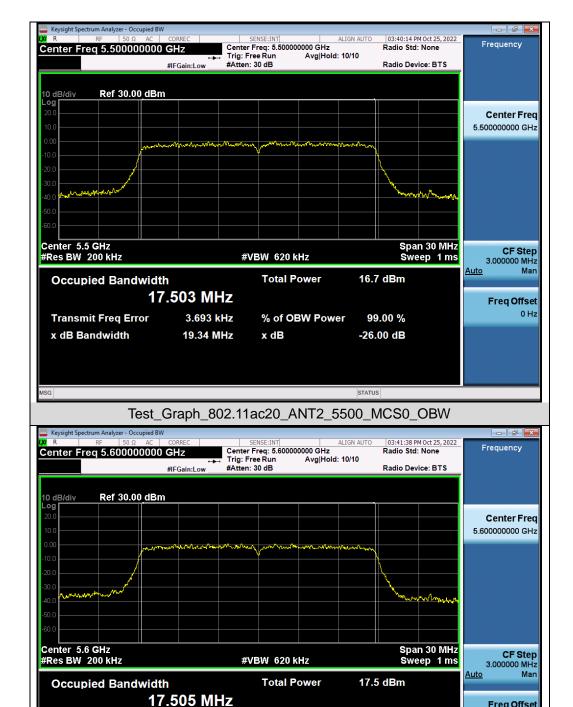




Test Graph 802.11n40 ANT2 5670 MCS0 OBW

Freq Offset





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% of OBW Power

x dB

Test_Graph_802.11ac20_ANT2_5600_MCS0_OBW

99.00 %

-26.00 dB

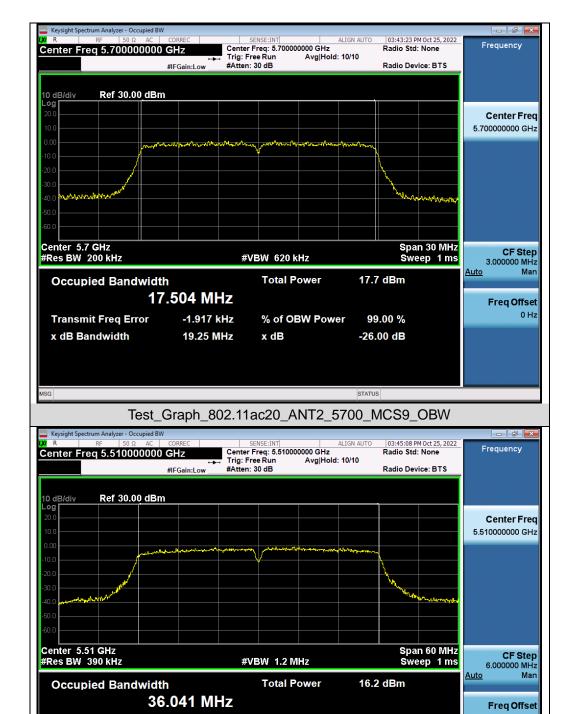
-15.829 kHz

19.30 MHz

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

Transmit Freq Error





% of OBW Power

x dB

Test Graph 802.11ac40 ANT2 5510 MCS9 OBW

99.00 %

-26.00 dB

44.659 kHz

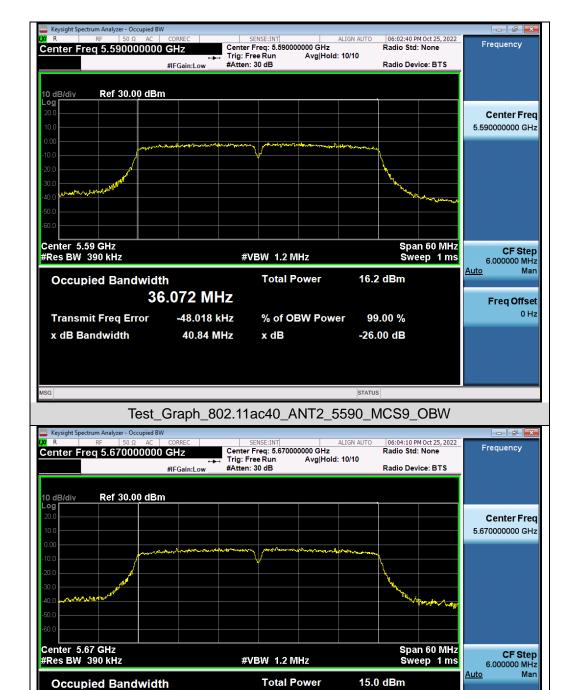
40.84 MHz

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Transmit Freq Error

Freq Offset





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% of OBW Power

x dB

Test Graph 802.11ac40 ANT2 5670 MCS9 OBW

99.00 %

-26.00 dB

36.081 MHz

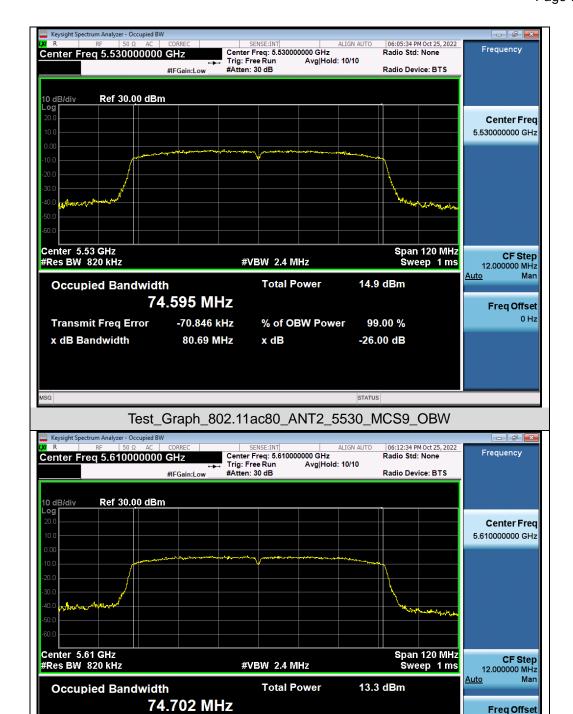
-35.295 kHz

40.85 MHz

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Transmit Freq Error





% of OBW Power

x dB

Test_Graph_802.11ac80_ANT2_5610_MCS9_OBW

99.00 %

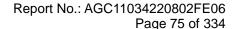
-26.00 dB

-61.914 kHz

80.60 MHz

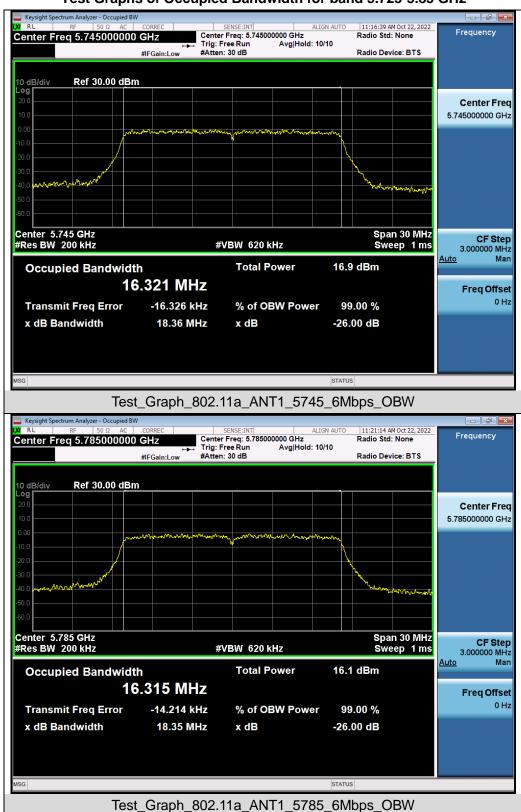
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error



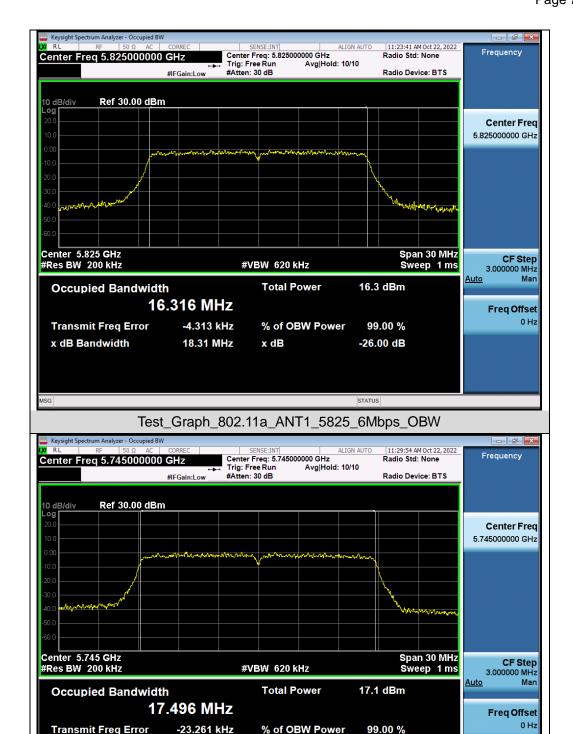


Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



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x dB

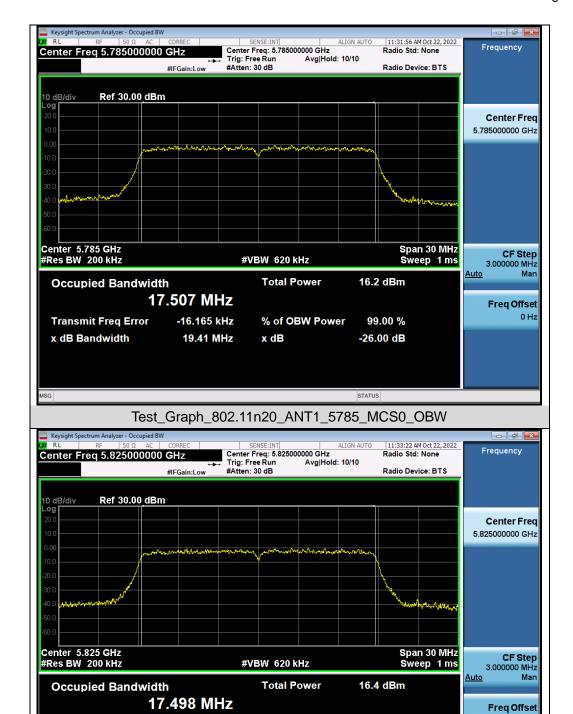
Test Graph 802.11n20 ANT1 5745 MCS0 OBW

-26.00 dB

19.23 MHz

x dB Bandwidth





% of OBW Power

x dB

Test Graph 802.11n20 ANT1 5825 MCS0 OBW

99.00 %

-26.00 dB

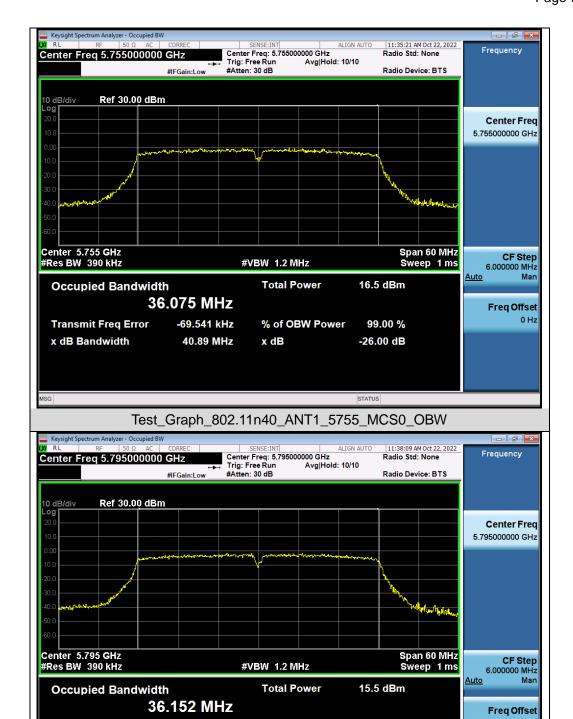
-4.744 kHz

19.21 MHz

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

Transmit Freq Error





% of OBW Power

x dB

Test Graph 802.11n40 ANT1 5795 MCS0 OBW

99.00 %

-26.00 dB

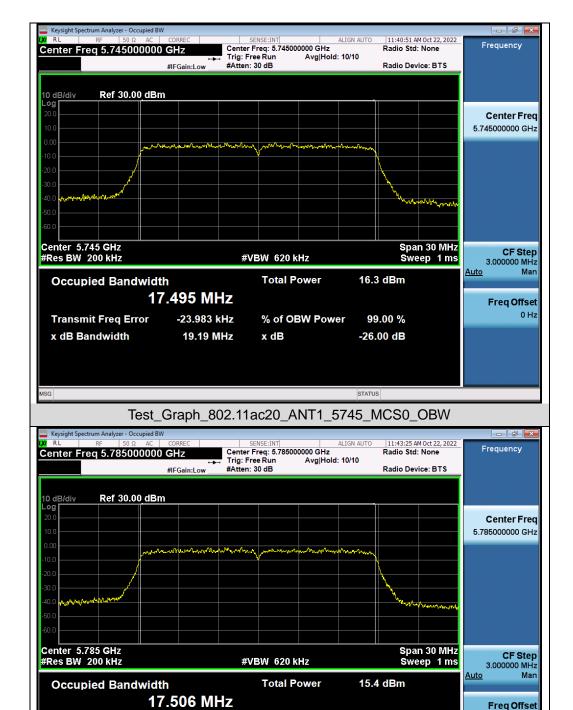
-19.760 kHz

41.20 MHz

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

Transmit Freq Error





% of OBW Power

x dB

Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

99.00 %

-26.00 dB

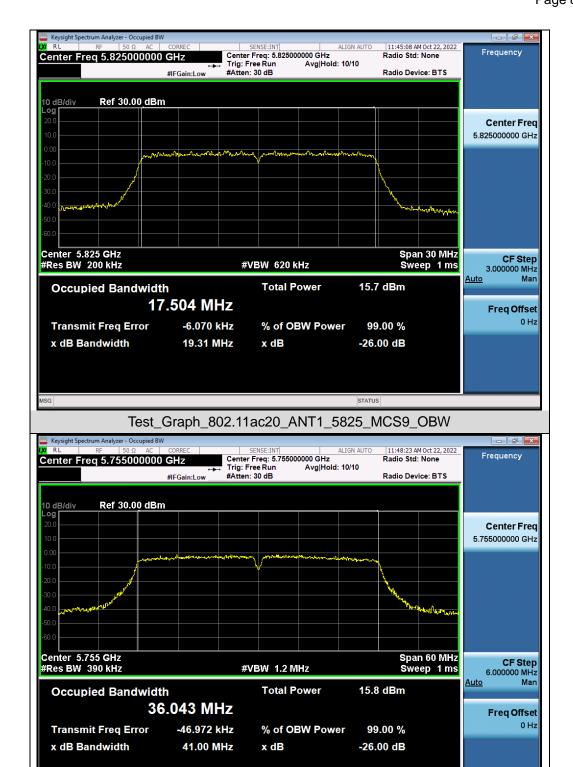
-19.748 kHz

19.25 MHz

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

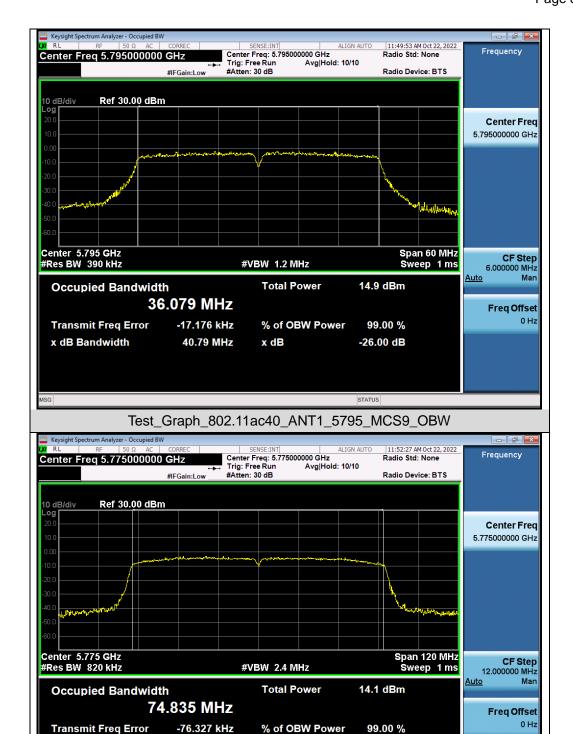
Transmit Freq Error





Test Graph 802.11ac40 ANT1 5755 MCS9 OBW





x dB

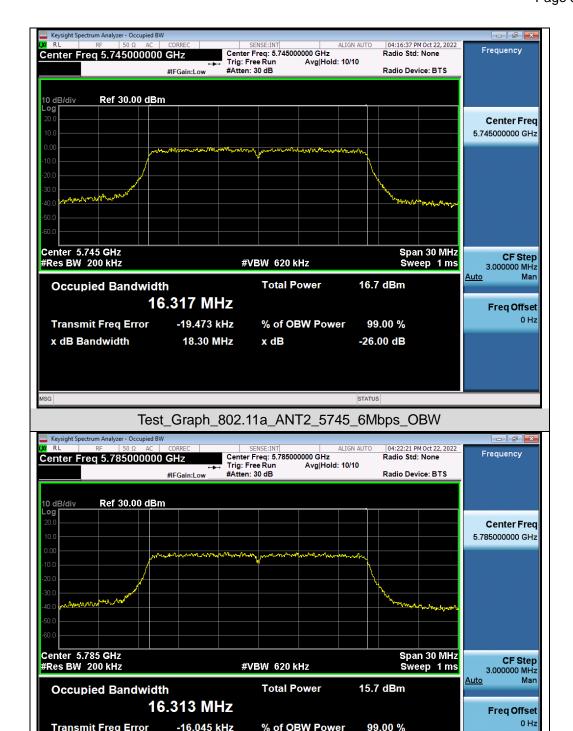
Test Graph 802.11ac80 ANT1 5775 MCS9 OBW

-26.00 dB

80.72 MHz

x dB Bandwidth





18.38 MHz

% of OBW Power

x dB

Test_Graph_802.11a_ANT2_5785_6Mbps_OBW

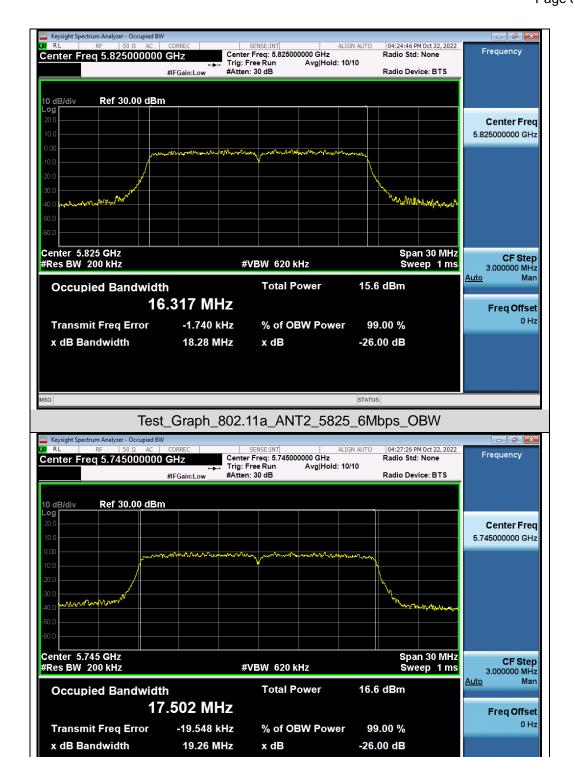
99.00 %

-26.00 dB

Web: http://www.agccert.com/

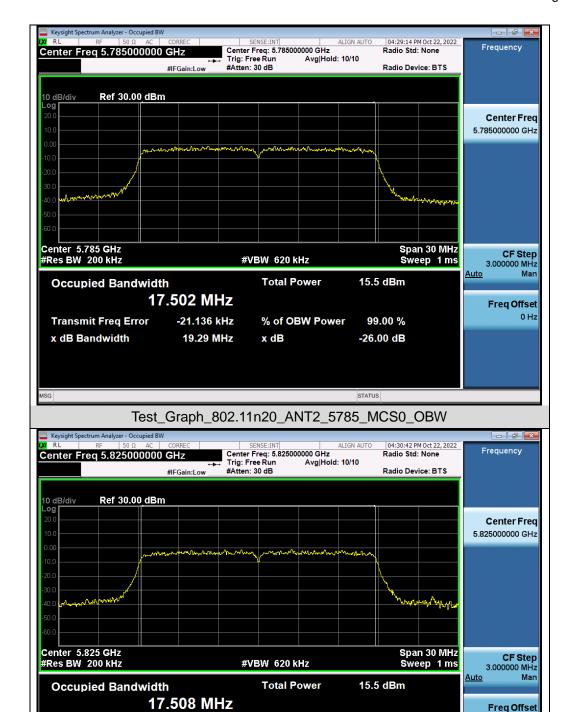
Transmit Freq Error





Test_Graph_802.11n20_ANT2_5745_MCS0_OBW





% of OBW Power

x dB

Test_Graph_802.11n20_ANT2_5825_MCS0_OBW

99.00 %

-26.00 dB

-910 Hz

19.33 MHz

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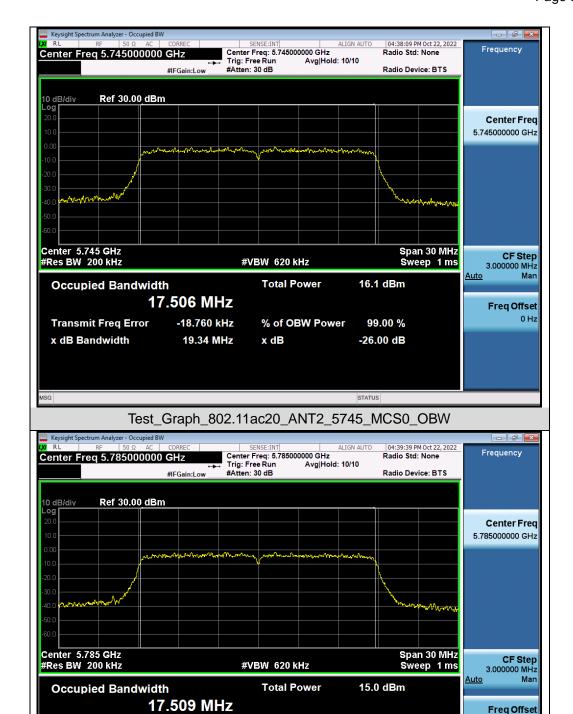
Transmit Freq Error





Test Graph 802.11n40 ANT2 5795 MCS0 OBW





% of OBW Power

x dB

Test_Graph_802.11ac20_ANT2_5785_MCS0_OBW

99.00 %

-26.00 dB

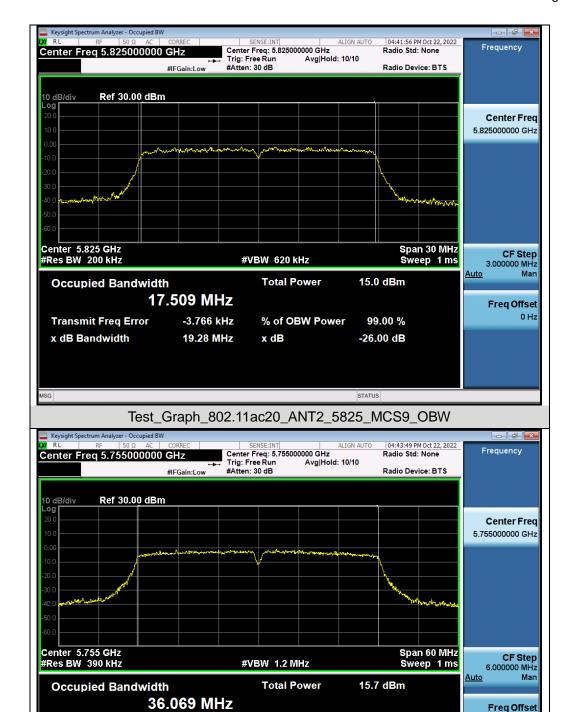
-20.102 kHz

19.36 MHz

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

Transmit Freq Error





% of OBW Power

x dB

Test Graph 802.11ac40 ANT2 5755 MCS9 OBW

99.00 %

-26.00 dB

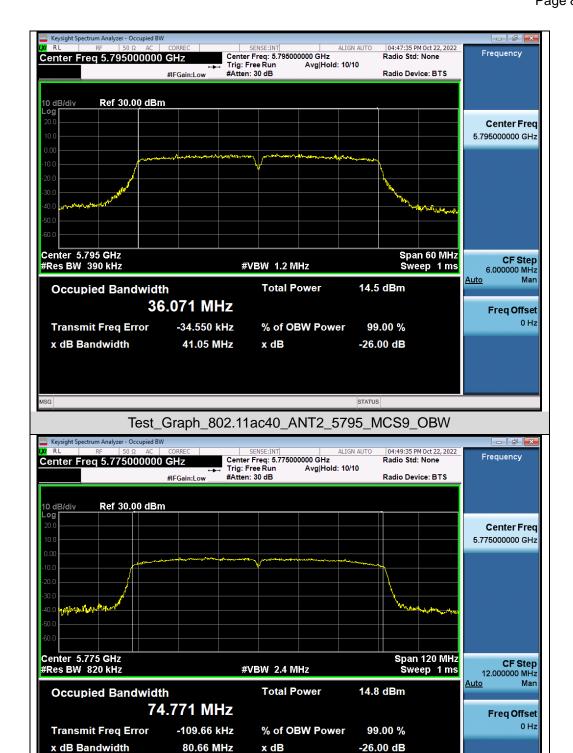
-52.747 kHz

40.68 MHz

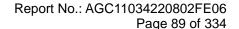
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error



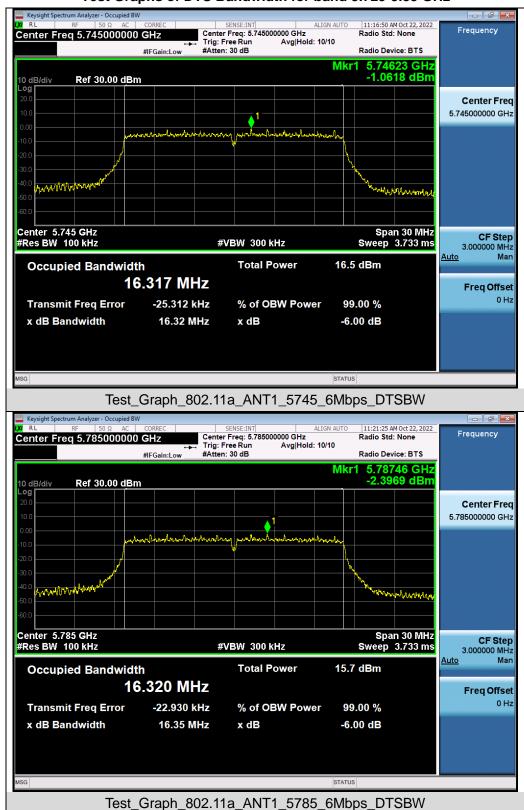


Test Graph 802.11ac80 ANT2 5775 MCS9 OBW



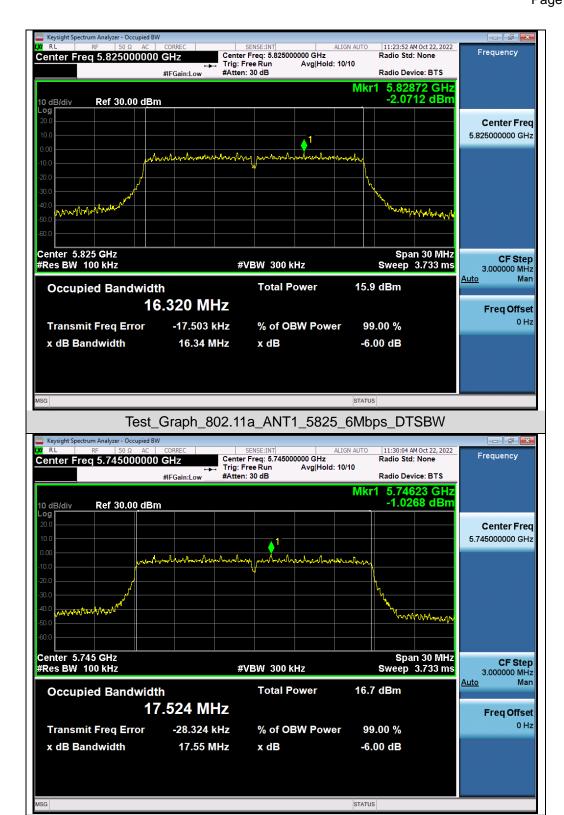


Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



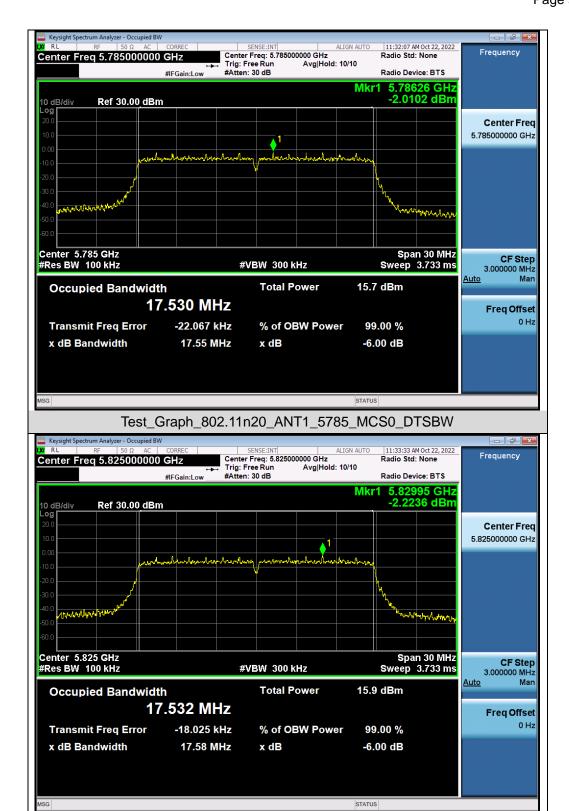
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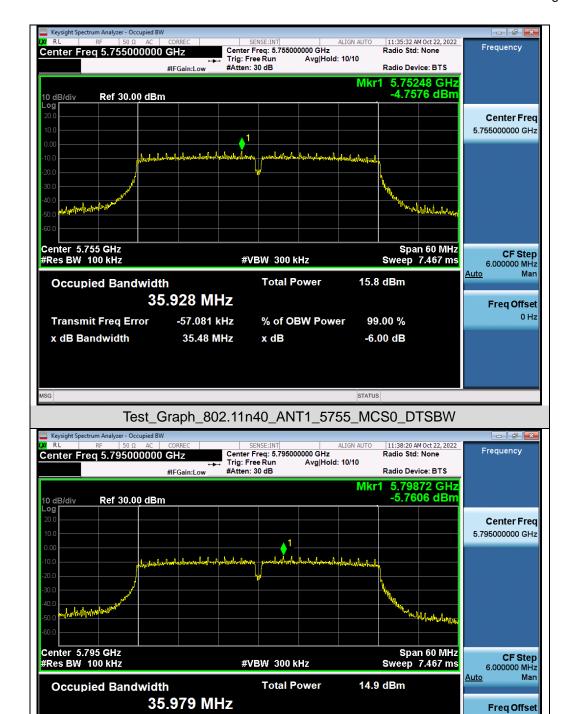
Test Graph 802.11n20 ANT1 5745 MCS0 DTSBW





Test Graph 802.11n20 ANT1 5825 MCS0 DTSBW





% of OBW Power

x dB

Test Graph 802.11n40 ANT1 5795 MCS0 DTSBW

99.00 %

-6.00 dB

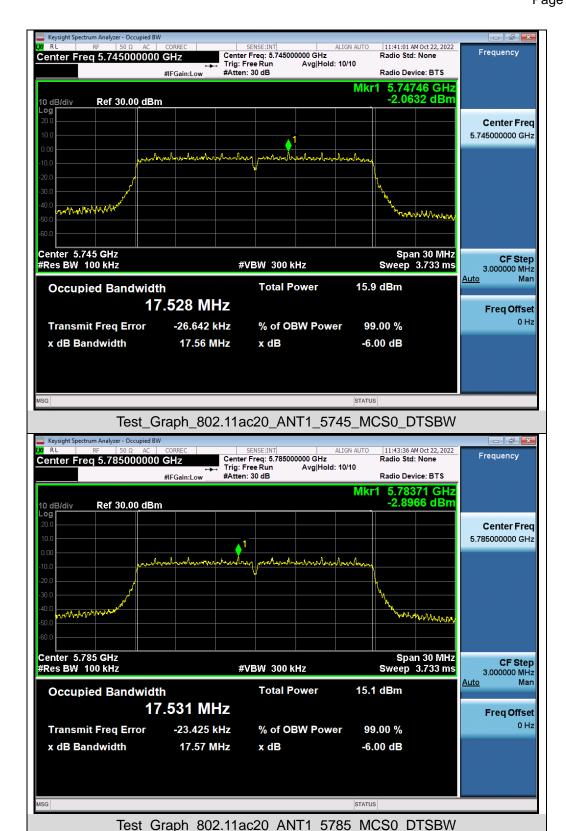
-17.622 kHz

35.14 MHz

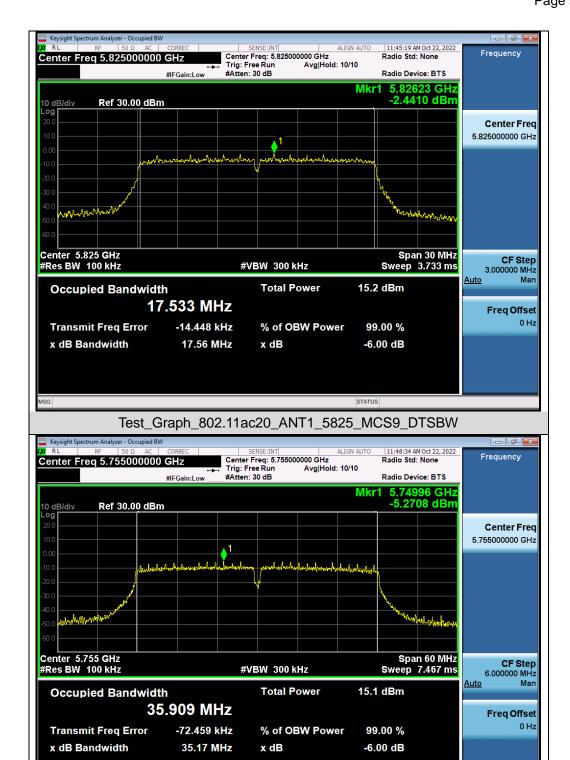
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error



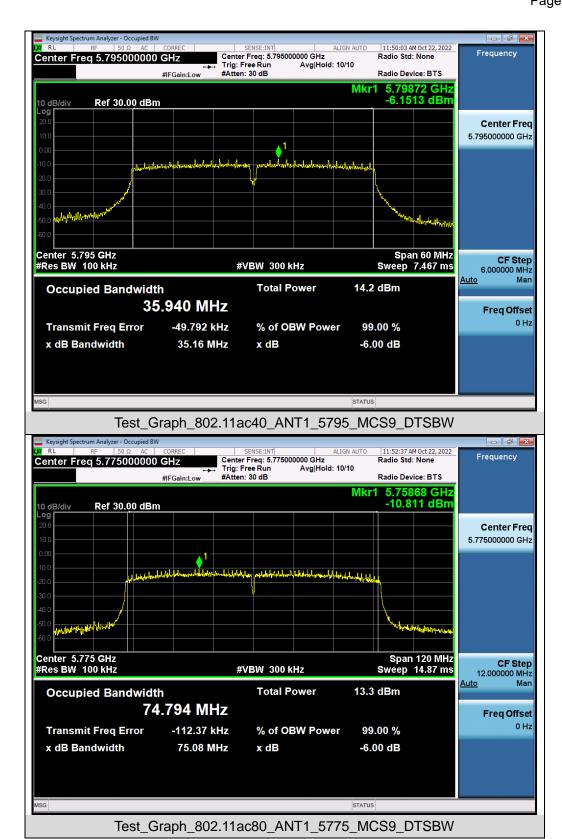




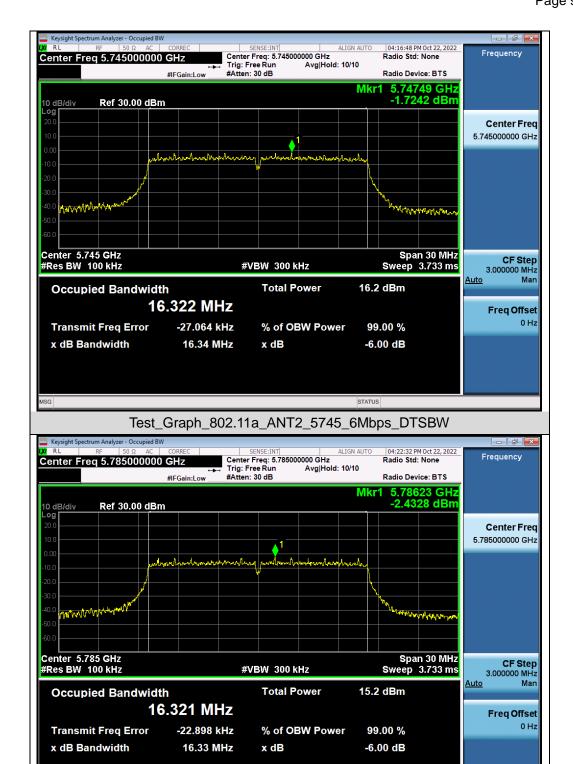


Test Graph 802.11ac40 ANT1 5755 MCS9 DTSBW



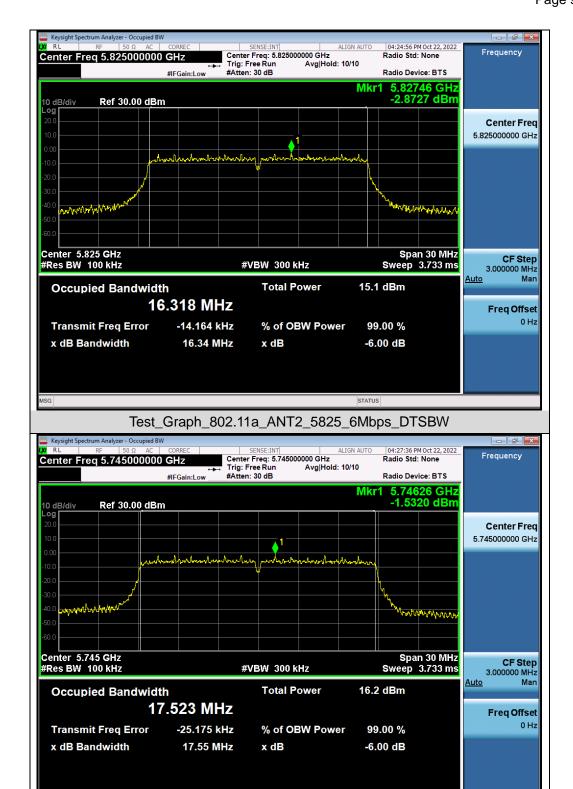






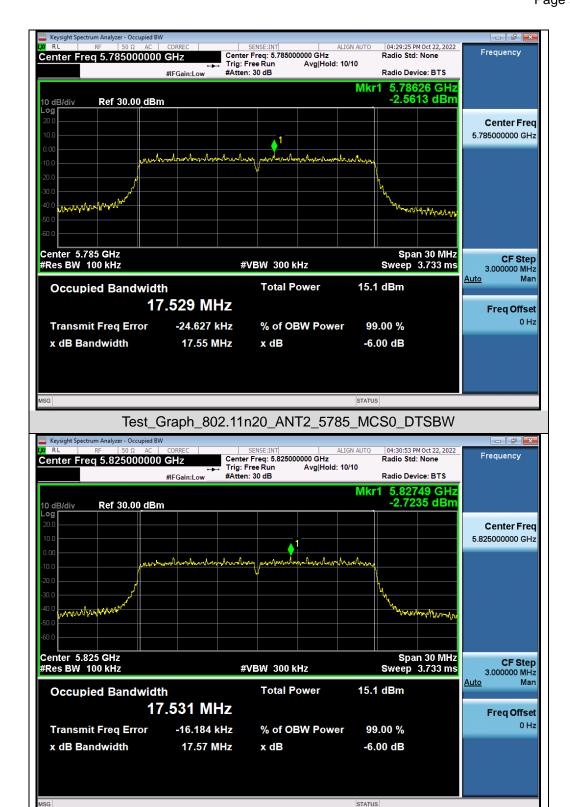
Test_Graph_802.11a_ANT2_5785_6Mbps_DTSBW





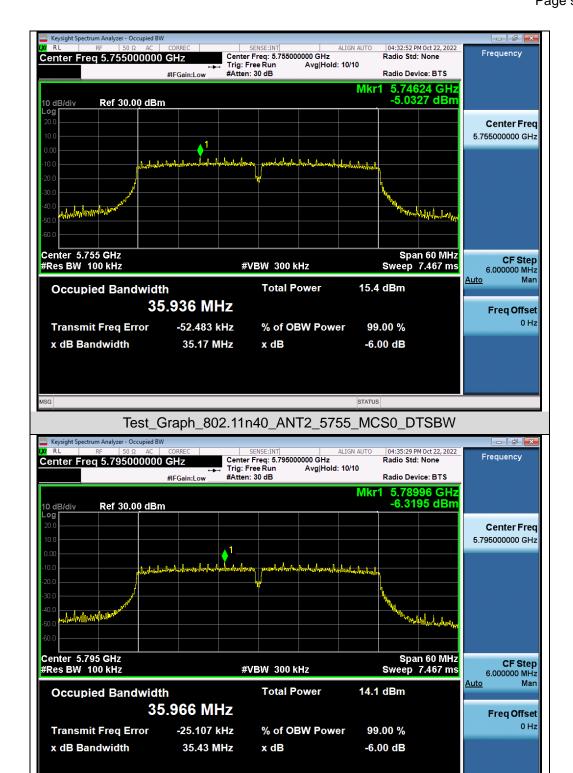
Test Graph 802.11n20 ANT2 5745 MCS0 DTSBW





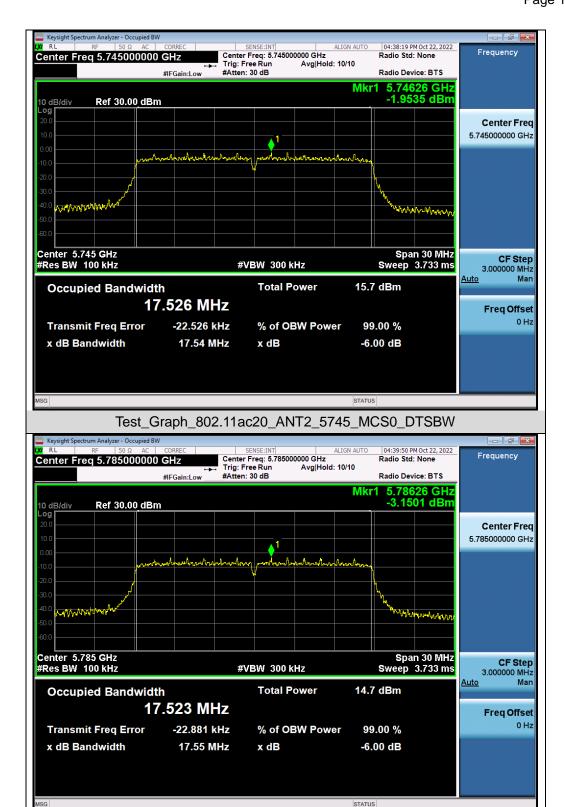
Test Graph 802.11n20 ANT2 5825 MCS0 DTSBW





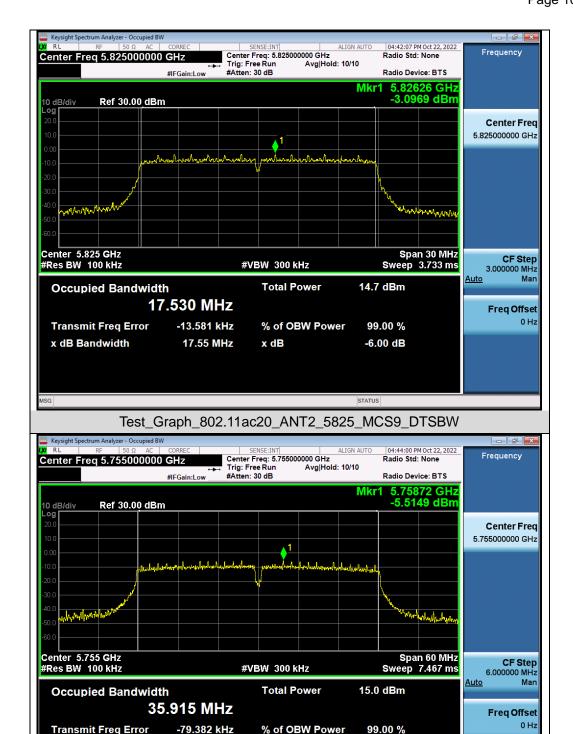
Test Graph 802.11n40 ANT2 5795 MCS0 DTSBW





Test Graph 802.11ac20 ANT2 5785 MCS0 DTSBW





x dB

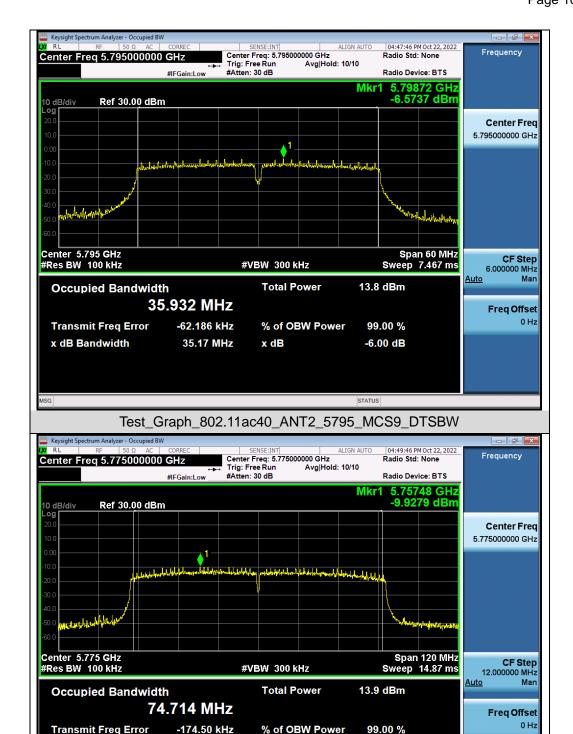
Test Graph 802.11ac40 ANT2 5755 MCS9 DTSBW

-6.00 dB

35.13 MHz

x dB Bandwidth





x dB

Test Graph 802.11ac80 ANT2 5775 MCS9 DTSBW

-6.00 dB

75.08 MHz

x dB Bandwidth



Report No.: AGC11034220802FE06

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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)

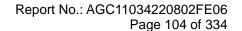
Refer to Section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

9.4. LIMITS AND MEASUREMENT RESULT

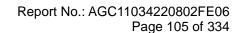
	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-antenna 1					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5180	1.976	11	Pass		
802.11a	5200	0.300	11	Pass		
	5240	-0.785	11	Pass		
	5180	1.588	11	Pass		
802.11n20	5200	0.270	11	Pass		
	5240	-0.591	11	Pass		
802.11n40	5190	-2.167	11	Pass		
602.111140	5230	-3.423	11	Pass		
	5180	0.172	11	Pass		
802.11ac20	5200	-0.740	11	Pass		
	5240	-1.585	11	Pass		
902 112040	5190	-3.050	11	Pass		
802.11ac40	5230	-4.249	11	Pass		
802.11ac80	5210	-6.773	11	Pass		





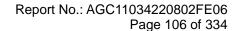
Test [Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-antenna 2					
Test Mode	Test Channel (MHz)	3				
	5180	2.022	11	Pass		
802.11a	5200	1.496	11	Pass		
	5240	-0.159	11	Pass		
	5180	1.167	11	Pass		
802.11n20	5200	0.391	11	Pass		
	5240	-1.215	11	Pass		
000 11 m 10	5190	-2.129	11	Pass		
802.11n40	5230	-3.755	11	Pass		
	5180	0.021	11	Pass		
802.11ac20	5200	-0.651	11	Pass		
	5240	-2.266	11	Pass		
902 11 2240	5190	-3.111	11	Pass		
802.11ac40	5230	-4.698	11	Pass		
802.11ac80	5210	-7.016	11	Pass		

Tes	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO					
Test Mode	Test Channel (MHz)	Limits (dBm/MHz)	Pass or Fail			
	5180	4.393	9.99	Pass		
802.11n20	5200	3.341	9.99	Pass		
	5240	2.118	9.99	Pass		
802.11n40	5190	0.862	9.99	Pass		
602.111140	5230	-0.576	9.99	Pass		
	5180	3.107	9.99	Pass		
802.11ac20	5200	2.315	9.99	Pass		
	5240	1.098	9.99	Pass		
902 110010	5190	-0.070	9.99	Pass		
802.11ac40	5230	-1.457	9.99	Pass		
802.11ac80	5210	-3.883	9.99	Pass		





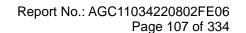
Test	Test Data of Conducted Output Power Density for band 5.2-5.35 GHz-antenna 1						
Test Mode	Test Channel (MHz)						
	5260	1.569	11	Pass			
802.11a	5300	1.833	11	Pass			
	5320	1.940	11	Pass			
	5260	0.601	11	Pass			
802.11n20	5300	1.321	11	Pass			
	5320	1.492	11	Pass			
802.11n40	5270	-2.123	11	Pass			
002.111140	5310	-1.499	11	Pass			
	5260	-0.098	11	Pass			
802.11ac20	5300	0.461	11	Pass			
	5320	0.824	11	Pass			
902 112040	5270	-3.281	11	Pass			
802.11ac40	5310	-2.498	11	Pass			
802.11ac80	5290	-6.448	11	Pass			





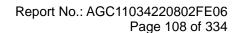
Test [Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-antenna 2					
Test Mode	Test Channel (MHz)					
	5260	1.043	11	Pass		
802.11a	5300	0.940	11	Pass		
	5320	0.862	11	Pass		
	5260	0.683	11	Pass		
802.11n20	5300	0.725	11	Pass		
	5320	0.528	11	Pass		
000 11 m 10	5270	-2.360	11	Pass		
802.11n40	5310	-2.368	11	Pass		
	5260	0.011	11	Pass		
802.11ac20	5300	0.029	11	Pass		
	5320	-0.047	11	Pass		
902 11 0040	5270	-3.506	11	Pass		
802.11ac40	5310	-3.525	11	Pass		
802.11ac80	5290	-7.139	11	Pass		

Tes	Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5260	3.652	9.99	Pass		
802.11n20	5300	4.044	9.99	Pass		
	5320	4.047	9.99	Pass		
802.11n40	5270	0.77	9.99	Pass		
002.111140	5310	1.098	9.99	Pass		
	5260	2.967	9.99	Pass		
802.11ac20	5300	3.261	9.99	Pass		
	5320	3.421	9.99	Pass		
802.11ac40	5270	-0.382	9.99	Pass		
002.118040	5310	0.029	9.99	Pass		
802.11ac80	5290	-3.769	9.99	Pass		



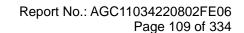


Test D	Test Data of Conducted Output Power Density for band 5.47-5.725 GHz-antenna 1					
Test Mode	Test Channel Average Power Density (MHz) (dBm/MHz)		Limits (dBm/MHz)	Pass or Fail		
	5500	0.032	11	Pass		
802.11a	5600	1.162	11	Pass		
	5700	1.775	11	Pass		
	5500	-0.137	11	Pass		
802.11n20	5600	0.788	11	Pass		
	5700	1.307	11	Pass		
	5510	-3.662	11	Pass		
802.11n40	5590	-3.166	11	Pass		
	5670	-2.350	11	Pass		
	5500	-1.144	11	Pass		
802.11ac20	5600	0.138	11	Pass		
	5700	0.695	11	Pass		
	5510	-4.059	11	Pass		
802.11ac40	5590	-3.774	11	Pass		
	5670	-2.794	11	Pass		
002.44.550	5530	-7.315	11	Pass		
802.11ac80	5610	-7.043	11	Pass		



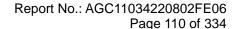


Test D	Test Data of Conducted Output Power Density for band 5.47-5.725 GHz-antenna 2					
Test Mode	Test Channel (MHz)	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Pass or Fail		
	5500	0.422	11	Pass		
802.11a	5600	1.093	11	Pass		
	5700	1.561	11	Pass		
	5500	0.020	11	Pass		
802.11n20	5600	0.799	11	Pass		
	5700	1.354	11	Pass		
	5510	-2.871	11	Pass		
802.11n40	5590	-3.095	11	Pass		
	5670	-2.770	11	Pass		
	5500	-0.581	11	Pass		
802.11ac20	5600	0.103	11	Pass		
	5700	0.474	11	Pass		
	5510	-3.653	11	Pass		
802.11ac40	5590	-4.046	11	Pass		
	5670	-5.011	11	Pass		
002 44 5 50	5530	-7.352	11	Pass		
802.11ac80	5610	-8.860	11	Pass		





Test	Test Data of Conducted Output Power Density for band 5.47-5.725 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5500	2.953	9.99	Pass		
802.11n20	5600	3.804	9.99	Pass		
	5700	4.341	9.99	Pass		
	5510	-0.238	9.99	Pass		
802.11n40	5590	-0.120	9.99	Pass		
	5670	0.455	9.99	Pass		
	5500	2.157	9.99	Pass		
802.11ac20	5600	3.131	9.99	Pass		
	5700	3.596	9.99	Pass		
	5510	-0.841	9.99	Pass		
802.11ac40	5590	-0.898	9.99	Pass		
	5670	-0.752	9.99	Pass		
802.11ac80	5530	-4.323	9.99	Pass		
002.11aco0	5610	-4.847	9.99	Pass		





Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-antenna 1 Limits Pass or **Test Channel** Average Power Density **Average Power Density** Test Mode (dBm/100kHz) (dBm/500kHz) (MHz) (dBm/500kHz) Fail 5745 -8.890 -1.900 30 Pass 5785 -10.167 -3.17730 **Pass** 802.11a 5825 -9.887 -2.897 30 Pass 5745 Pass -9.049 -2.05930 802.11n20 5785 -10.215-3.22530 **Pass Pass** 5825 -10.038-3.04830 5755 -12.291-5.301 30 **Pass** 802.11n40 5795 -13.321 -6.33130 **Pass** 5745 -10.200 -3.210 Pass 30 5785 802.11ac20 -11.022 -4.03230 **Pass** 5825 -10.789 -3.799 30 **Pass** 5755 -12.949 -5.95930 **Pass** 802.11ac40 5795 -14.030 -7.040 30 **Pass** 802.11ac80 5775 -16.599 -9.609 30 **Pass**

T	Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-antenna 2							
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail			
	5745	-9.412	-2.422	30	Pass			
802.11a	5785	-10.659	-3.669	30	Pass			
	5825	-10.639	-3.649	30	Pass			
	5745	-9.661	-2.671	30	Pass			
802.11n20	5785	-10.622	-3.632	30	Pass			
	5825	-10.756	-3.766	30	Pass			
802.11n40	5755	-12.385	-5.395	30	Pass			
802.111140	5795	-13.974	-6.984	30	Pass			
	5745	-10.310	-3.320	30	Pass			
802.11ac20	5785	-11.201	-4.211	30	Pass			
	5825	-11.378	-4.388	30	Pass			
802.11ac40	5755	-12.813	-5.823	30	Pass			
002.118040	5795	-14.432	-7.442	30	Pass			
802.11ac80	5775	-15.928	-8.938	30	Pass			



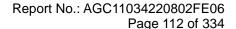
Report No.: AGC11034220802FE06

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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			
	5745	-6.334	0.656	28.99	Pass			
802.11n20	5785	-7.403	-0.413	28.99	Pass			
	5825	-7.372	-0.382	28.99	Pass			
802.11n40	5755	-9.327	-2.337	28.99	Pass			
002.111140	5795	-10.625	-3.635	28.99	Pass			
	5745	-7.244	-0.254	28.99	Pass			
802.11ac20	5785	-8.100	-1.110	28.99	Pass			
	5825	-8.063	-1.073	28.99	Pass			
802.11ac40	5755	-9.870	-2.880	28.99	Pass			
002.118040	5795	-11.216	-4.226	28.99	Pass			
802.11ac80	5775	-13.240	-6.250	28.99	Pass			

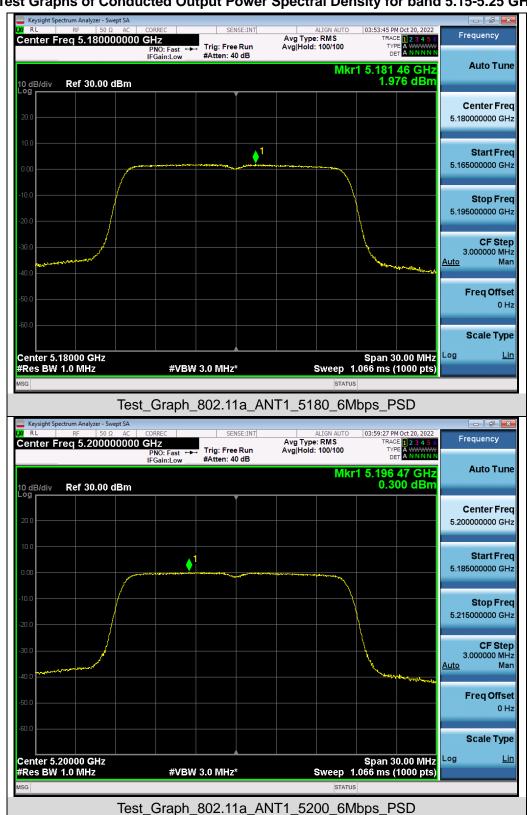
Note: 1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10*log(500/100).

^{2.} The Total PSD (dBm) = $10*log \{10^{(Ant 1 PSD /10)} + 10^{(Ant 2 PSD /10)}\}$.





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



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<u>Auto</u>

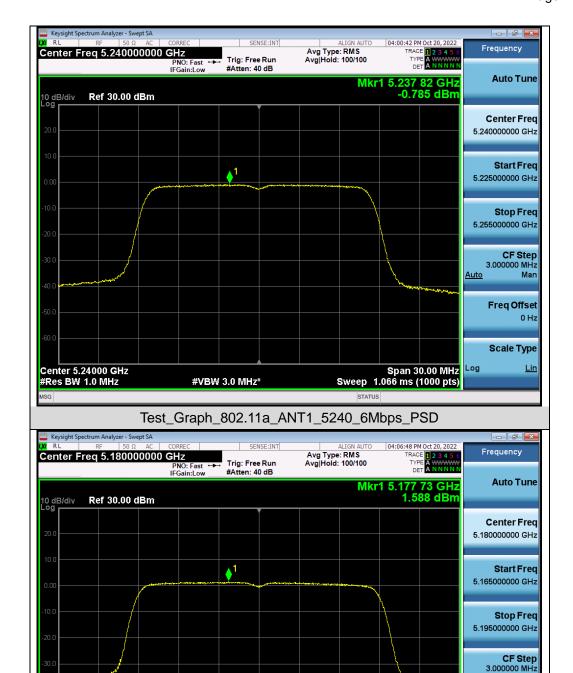
Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts) Mar

Freq Offset

Scale Type





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Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

#VBW 3.0 MHz*

Center 5.18000 GHz #Res BW 1.0 MHz

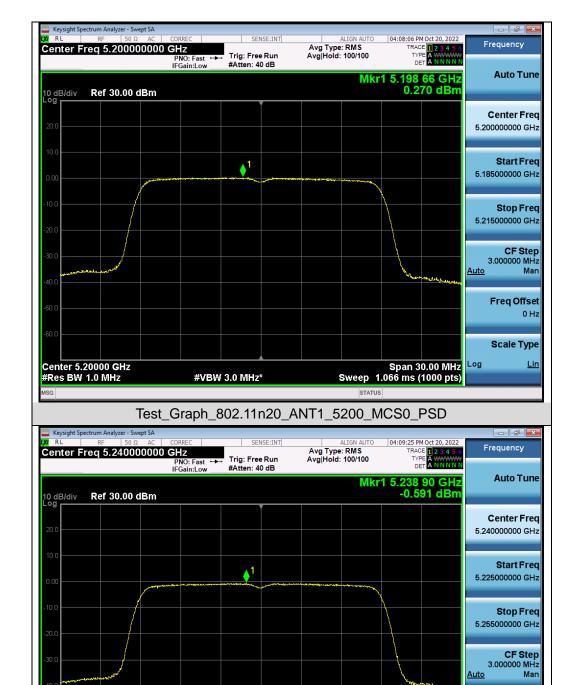
Freq Offset 0 Hz

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n20_ANT1_5240_MCS0_PSD

#VBW 3.0 MHz*

Center 5.24000 GHz #Res BW 1.0 MHz

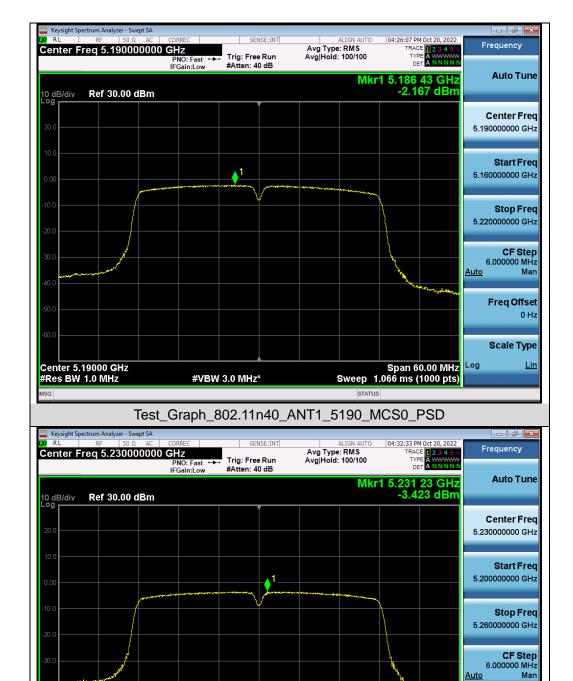
Freq Offset 0 Hz

Scale Type

Log

Span 60.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

#VBW 3.0 MHz*

Center 5.23000 GHz #Res BW 1.0 MHz

Stop Freq 5.215000000 GHz

CF Step 3.000000 MHz

Freq Offset 0 Hz

Scale Type

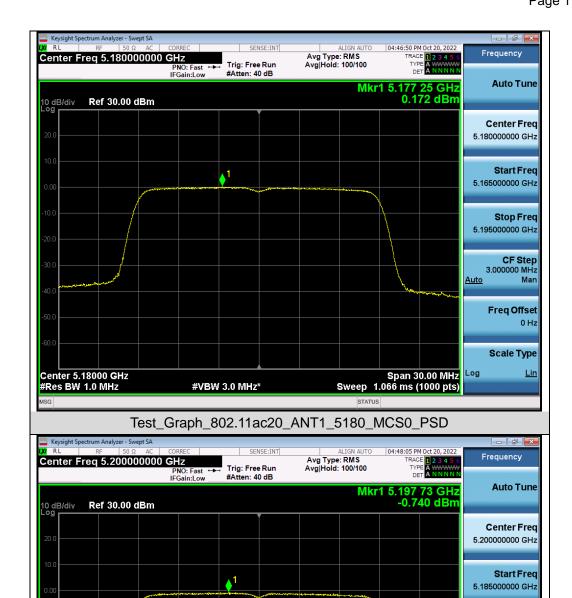
Mar

<u>Auto</u>

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac20_ANT1_5200_MCS0_PSD

#VBW 3.0 MHz*

Center 5.20000 GHz #Res BW 1.0 MHz

CF Step 6.000000 MHz

Freq Offset

Scale Type

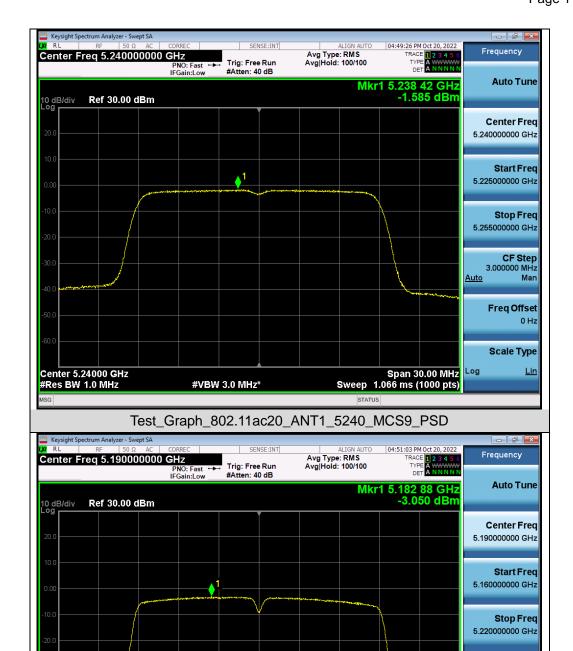
Mar

<u>Auto</u>

Log

Span 60.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac40_ANT1_5190_MCS9_PSD

#VBW 3.0 MHz*

Center 5.19000 GHz #Res BW 1.0 MHz

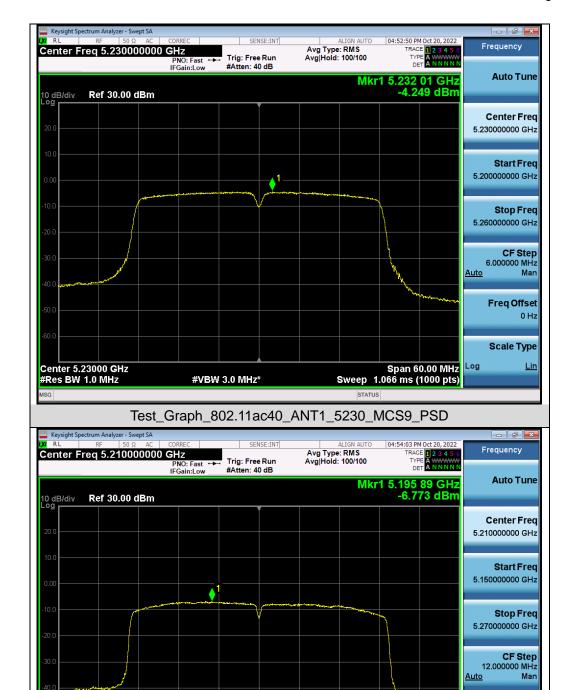
Freq Offset 0 Hz

Scale Type

Log

Span 120.0 MHz Sweep 1.066 ms (1000 pts)





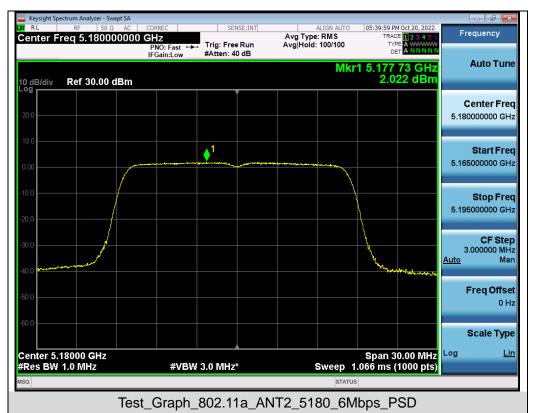
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD

#VBW 3.0 MHz*

Center 5.21000 GHz #Res BW 1.0 MHz







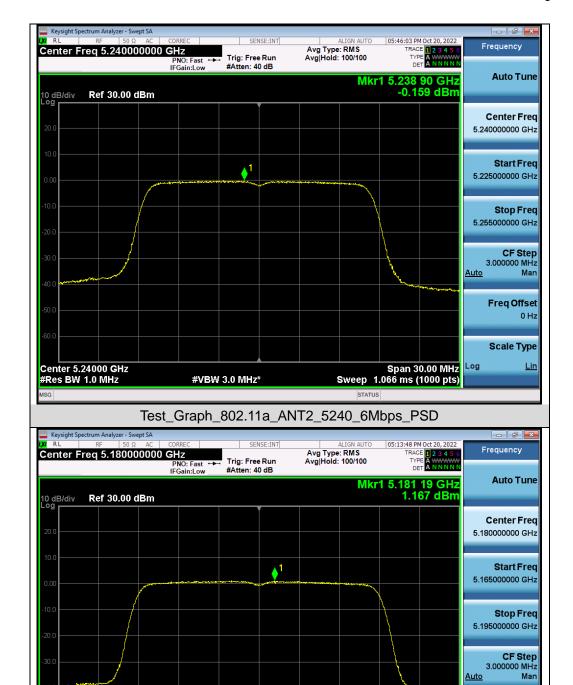
Freq Offset

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n20_ANT2_5180_MCS0_PSD

#VBW 3.0 MHz*

Center 5.18000 GHz #Res BW 1.0 MHz

<u>Auto</u>

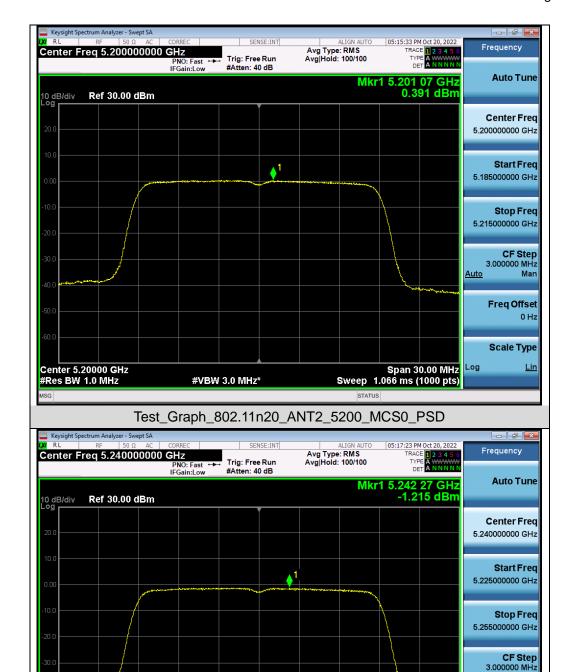
Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts) Mar

Freq Offset 0 Hz

Scale Type





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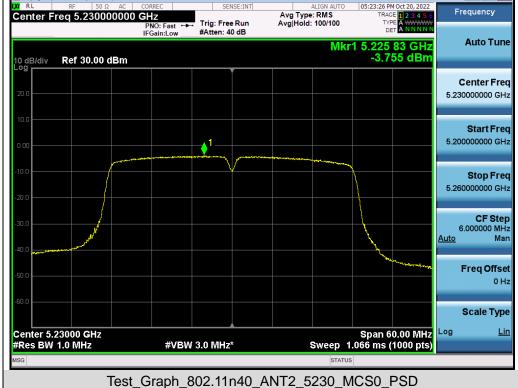
Test_Graph_802.11n20_ANT2_5240_MCS0_PSD

#VBW 3.0 MHz*

Center 5.24000 GHz #Res BW 1.0 MHz







CF Step 3.000000 MHz

Freq Offset 0 Hz

Scale Type

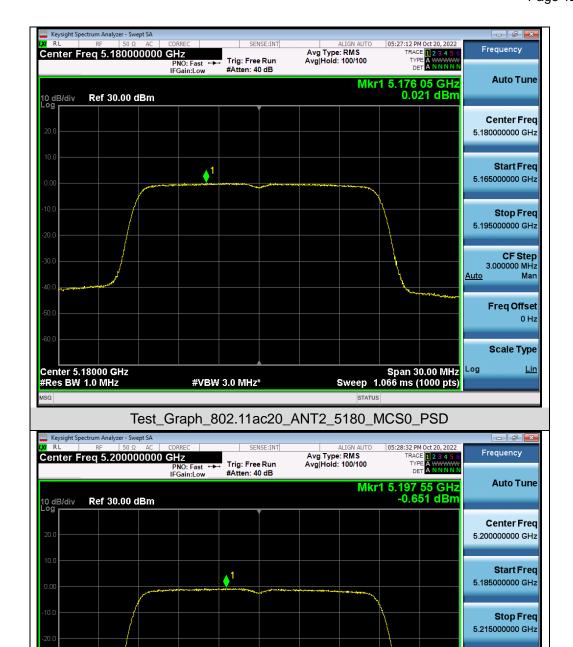
Mar

<u>Auto</u>

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac20_ANT2_5200_MCS0_PSD

#VBW 3.0 MHz*

Center 5.20000 GHz #Res BW 1.0 MHz

Stop Freq 5.220000000 GHz

CF Step 6.000000 MHz

Freq Offset

Scale Type

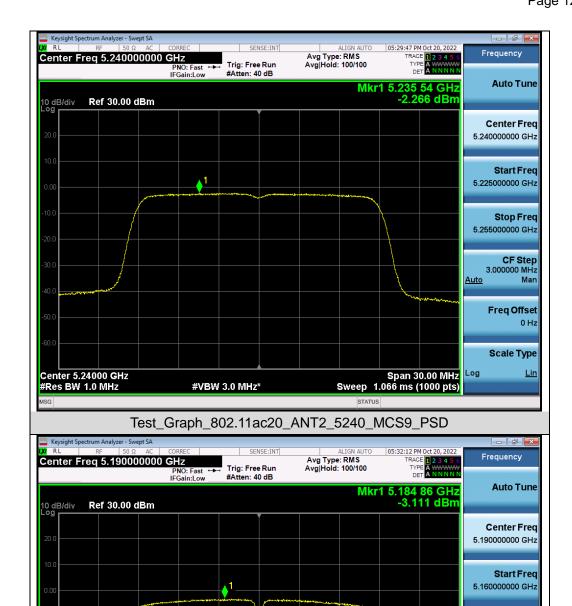
Mar

<u>Auto</u>

Log

Span 60.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac40_ANT2_5190_MCS9_PSD

#VBW 3.0 MHz*

Center 5.19000 GHz #Res BW 1.0 MHz

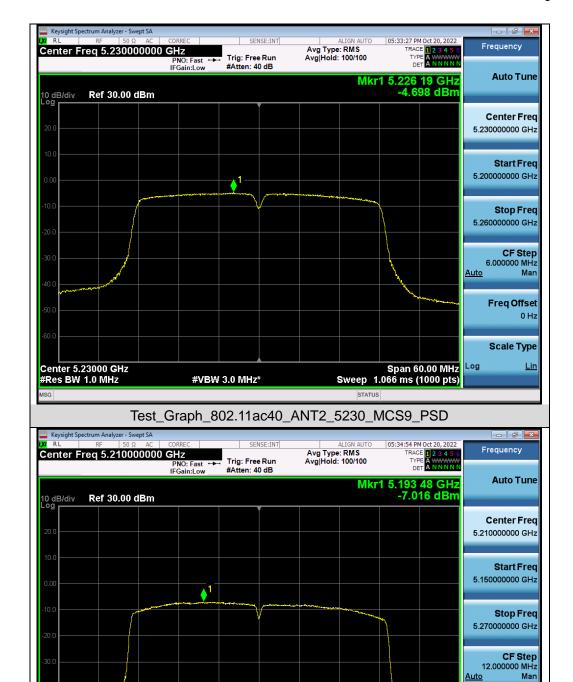
Freq Offset 0 Hz

Scale Type

Log

Span 120.0 MHz Sweep 1.066 ms (1000 pts)



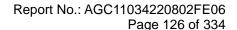


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Test_Graph_802.11ac80_ANT2_5210_MCS9_PSD

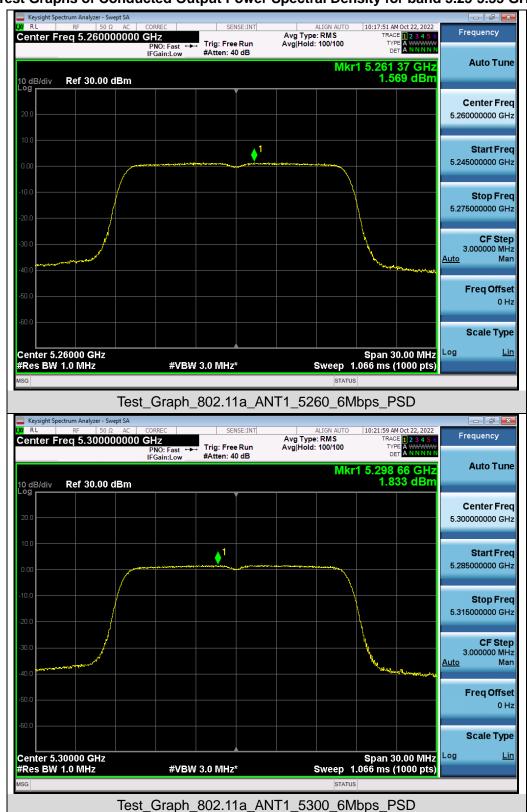
#VBW 3.0 MHz*

Center 5.21000 GHz #Res BW 1.0 MHz





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



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