

Report No.: AGC11034220305FE06

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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.

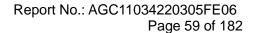
9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

9.4. LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail	
	5180	1.870	11	Pass	
802.11a	5200	1.445	11	Pass	
	5240	1.856	11	Pass	
802.11n20	5180	1.822	11	Pass	
	5200	1.856	11	Pass	
	5240	2.019	11	Pass	
000 11 = 10	5190	-2.065	11	Pass	
802.11n40	5230	-2.983	11	Pass	
	5180	0.566	11	Pass	
802.11ac20	5200	-0.003	11	Pass	
	5240	0.041	11	Pass	
802.11ac40	5190	-2.124	11	Pass	
	5230	-3.041	11	Pass	
802.11ac80	5210	-6.221	11	Pass	

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Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5260	1.395	11	Pass
802.11a	5300	1.008	11	Pass
	5320	1.064	11	Pass
802.11n20	5260	1.628	11	Pass
	5300	0.817	11	Pass
	5320	0.948	11	Pass
802.11n40	5270	-2.004	11	Pass
	5310	-2.408	11	Pass
802.11ac20	5260	0.769	11	Pass
	5300	-0.116	11	Pass
	5320	0.019	11	Pass
802.11ac40	5270	-2.090	11	Pass
	5310	-2.857	11	Pass
802.11ac80	5290	-6.568	11	Pass

Test Data of Conducted Output Power Density for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	1.204	11	Pass
802.11a	5600	1.823	11	Pass
	5700	0.701	11	Pass
	5500	0.535	11	Pass
802.11n20	5600	0.974	11	Pass
	5700	0.614	11	Pass
902 11p10	5510	-2.457	11	Pass
802.11n40	5590	-1.852	11	Pass
802.11ac20	5670	-1.047	11	Pass
	5500	0.466	11	Pass
	5600	1.045	11	Pass
802.11ac40	5700	1.166	11	Pass
	5510	-2.732	11	Pass
802.11ac80	5610	-5.965	11	Pass

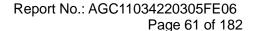


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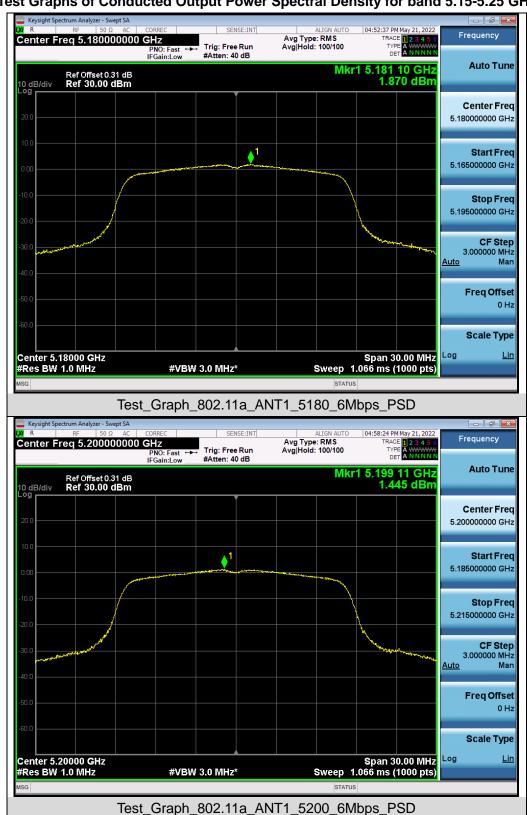
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
	5745	-0.773	30	Pass
802.11a	5785	-1.067	30	Pass
	5825	-1.643	30	Pass
802.11n20	5745	-1.016	30	Pass
	5785	-1.662	30	Pass
	5825	-1.982	30	Pass
000 11 - 10	5755	-4.828	30	Pass
802.11n40	5795	-4.485	30	Pass
802.11ac20	5745	-1.694	30	Pass
	5785	-1.590	30	Pass
	5825	-3.092	30	Pass
802.11ac40	5755	-4.916	30	Pass
	5795	-4.908	30	Pass
802.11ac80	5775	-8.910	30	Pass

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



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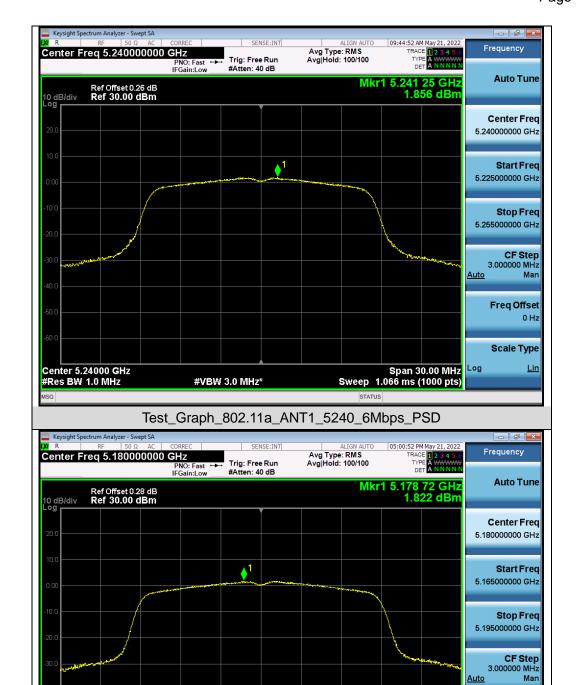
Freq Offset

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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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

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





Test_Graph_802.11n40_ANT1_5230_MCS0_PSD

#VBW 3.0 MHz*

Span 60.00 MHz Sweep 1.066 ms (1000 pts)

Log

Center 5.23000 GHz #Res BW 1.0 MHz

3.000000 MHz

Freq Offset 0 Hz

Scale Type

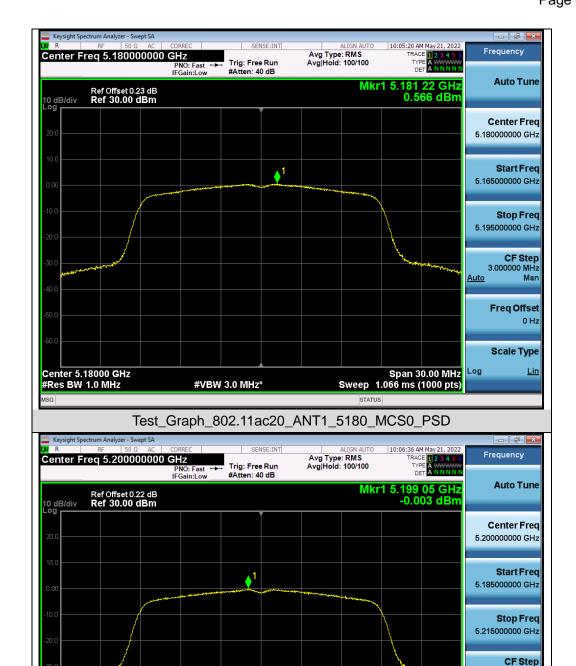
Mar

<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

5.220000000 GHz

<u>Auto</u>

Log

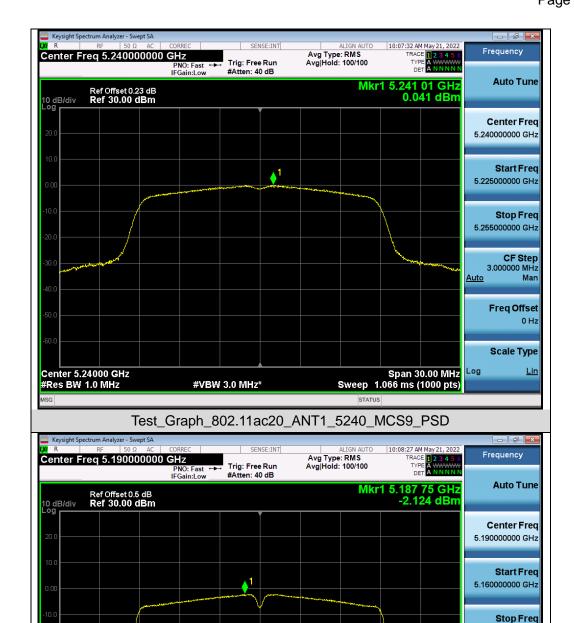
Span 60.00 MHz Sweep 1.066 ms (1000 pts) **CF Step** 6.000000 MHz

Freq Offset 0 Hz

Scale Type

Mar





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Test_Graph_802.11ac40_ANT1_5190_MCS9_PSD

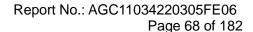
#VBW 3.0 MHz*

Center 5.19000 GHz #Res BW 1.0 MHz



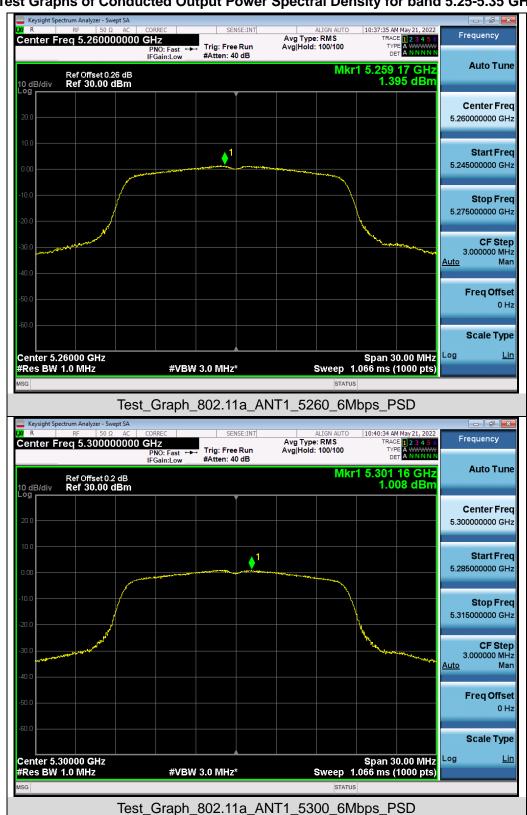


Test_Graph_802.11ac80_ANT1_5210_MCS9_PSD





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



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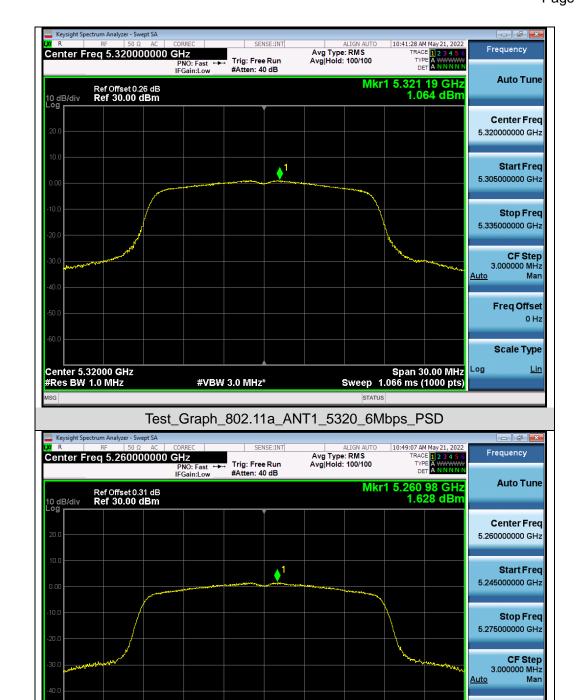
Freq Offset 0 Hz

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n20_ANT1_5260_MCS0_PSD

#VBW 3.0 MHz*

Center 5.26000 GHz #Res BW 1.0 MHz





Start Fred 5.305000000 GHz Stop Freq 5.335000000 GHz **CF Step** 3.000000 MHz <u>Auto</u> Mar Freq Offset 0 Hz Scale Type Center 5.32000 GHz #Res BW 1.0 MHz Span 30.00 MHz Sweep 1.066 ms (1000 pts) Log #VBW 3.0 MHz* Test_Graph_802.11n20_ANT1_5320_MCS0_PSD

Stop Freq 5.340000000 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_802.11n40_ANT1_5310_MCS0_PSD

#VBW 3.0 MHz*

Center 5.31000 GHz #Res BW 1.0 MHz

CF Step 3.000000 MHz

Freq Offset

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_5300_MCS0_PSD

#VBW 3.0 MHz*

Center 5.30000 GHz #Res BW 1.0 MHz

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

<u>Auto</u>

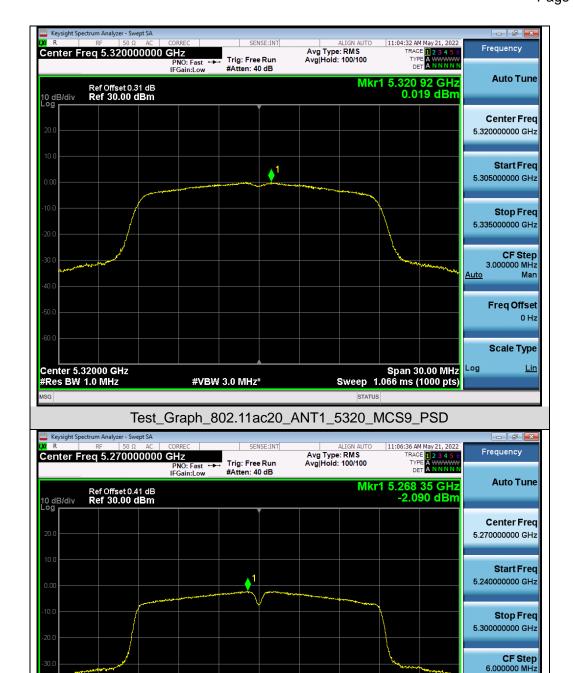
Log

Span 60.00 MHz Sweep 1.066 ms (1000 pts) Mar

Freq Offset

Scale Type





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Test_Graph_802.11ac40_ANT1_5270_MCS9_PSD

#VBW 3.0 MHz*

Center 5.27000 GHz #Res BW 1.0 MHz





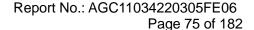
Test_Graph_802.11ac80_ANT1_5290_MCS9_PSD

#VBW 3.0 MHz*

Span 120.0 MHz Sweep 1.066 ms (1000 pts)

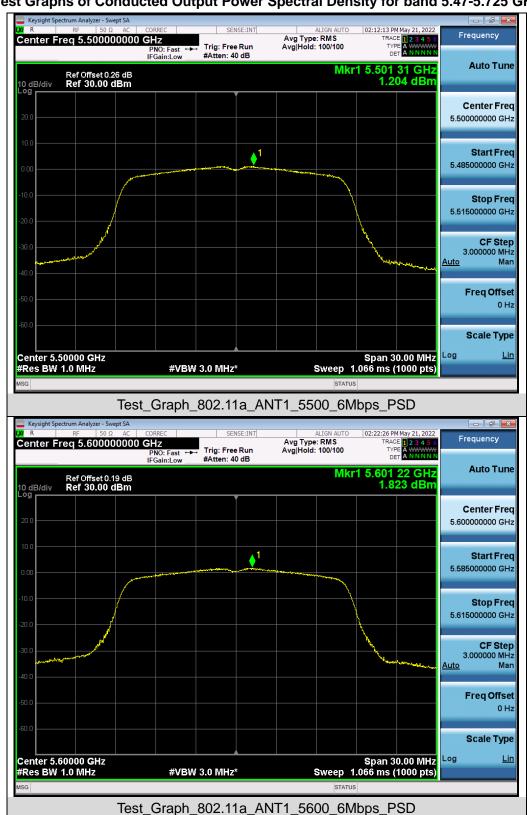
Log

Center 5.29000 GHz #Res BW 1.0 MHz





Test Graphs of Conducted Output Power Spectral Density for band 5.47-5.725 GHz



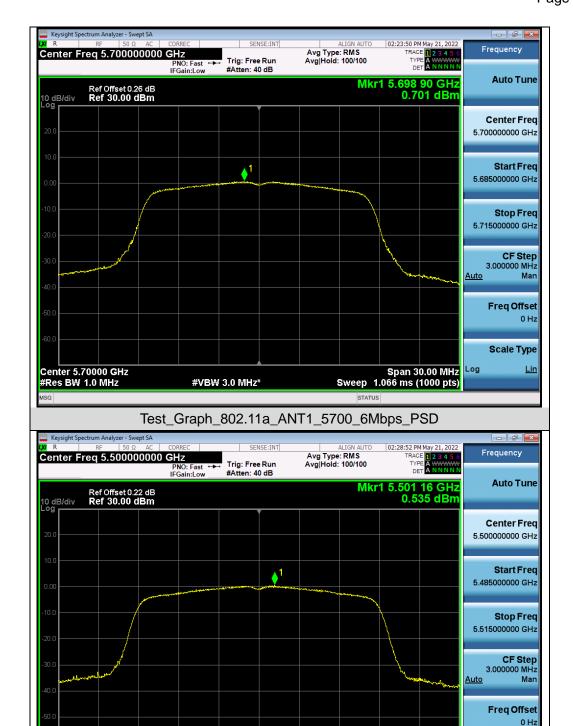
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Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n20_ANT1_5500_MCS0_PSD

#VBW 3.0 MHz*

Center 5.50000 GHz #Res BW 1.0 MHz

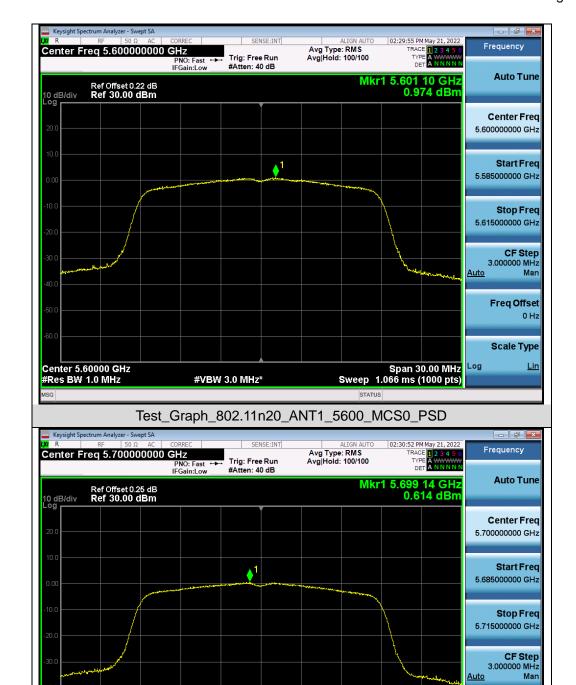
Freq Offset

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n20_ANT1_5700_MCS0_PSD

#VBW 3.0 MHz*

Center 5.70000 GHz #Res BW 1.0 MHz

Scale Type

Log

Span 60.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11n40_ANT1_5590_MCS0_PSD

#VBW 3.0 MHz*

Center 5.59000 GHz #Res BW 1.0 MHz

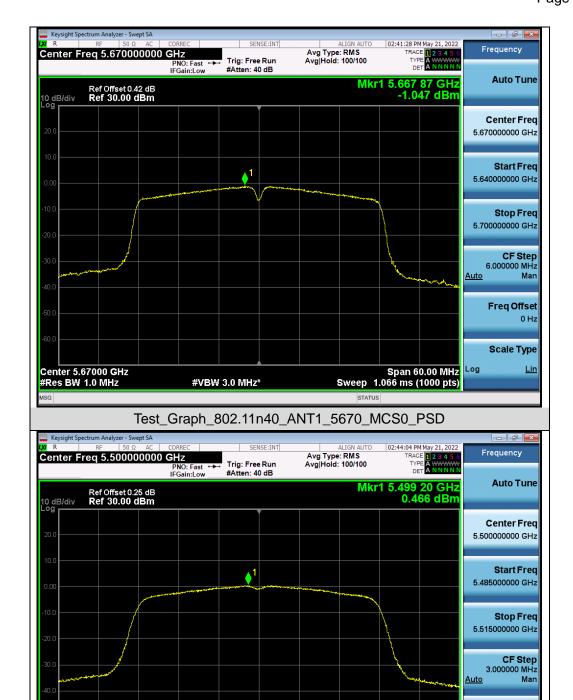
Freq Offset

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac20_ANT1_5500_MCS0_PSD

#VBW 3.0 MHz*

Center 5.50000 GHz #Res BW 1.0 MHz

Scale Type

Log

Span 30.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac20_ANT1_5700_MCS9_PSD

#VBW 3.0 MHz*

Center 5.70000 GHz #Res BW 1.0 MHz

Scale Type

Log

Span 60.00 MHz Sweep 1.066 ms (1000 pts)





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Test_Graph_802.11ac40_ANT1_5590_MCS9_PSD

#VBW 3.0 MHz*

Center 5.59000 GHz #Res BW 1.0 MHz





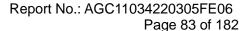
Test_Graph_802.11ac80_ANT1_5530_MCS9_PSD

#VBW 3.0 MHz*

Span 120.0 MHz Sweep 1.066 ms (1000 pts)

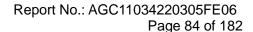
Log

Center 5.53000 GHz #Res BW 1.0 MHz



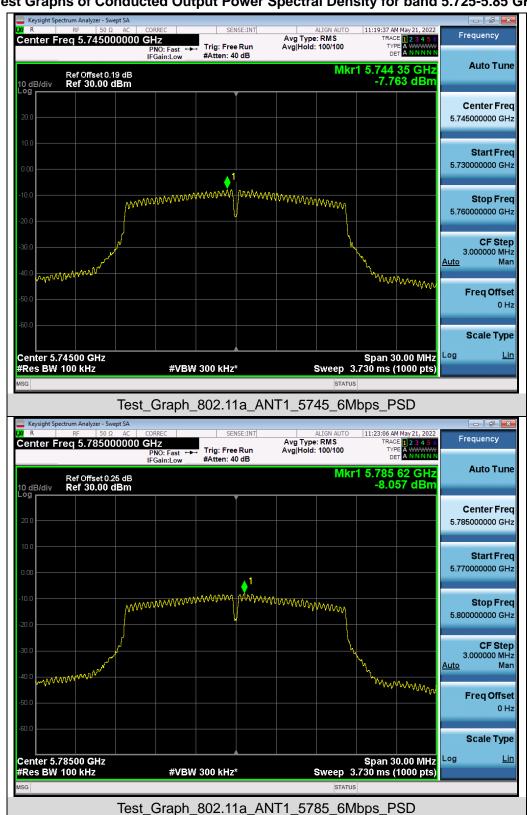








Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



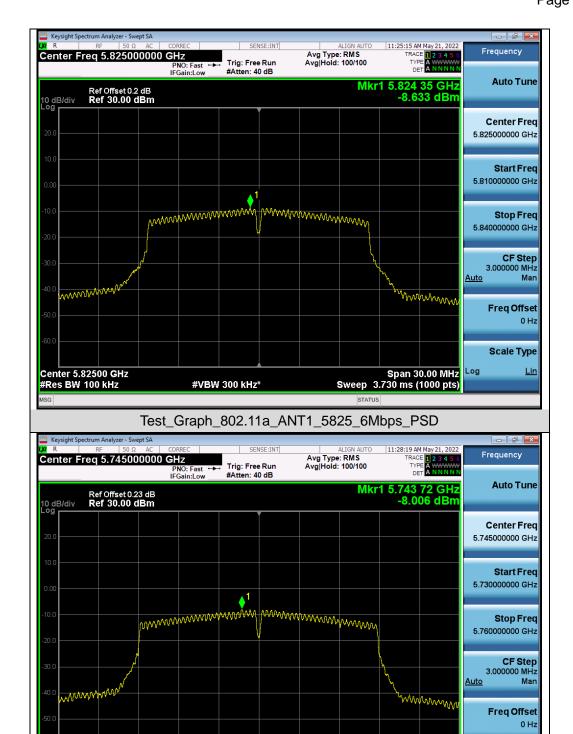
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Scale Type

Log

Span 30.00 MHz Sweep 3.730 ms (1000 pts)





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Test_Graph_802.11n20_ANT1_5745_MCS0_PSD

#VBW 300 kHz*

Center 5.74500 GHz #Res BW 100 kHz

CF Step 3.000000 MHz

Freq Offset 0 Hz

Scale Type

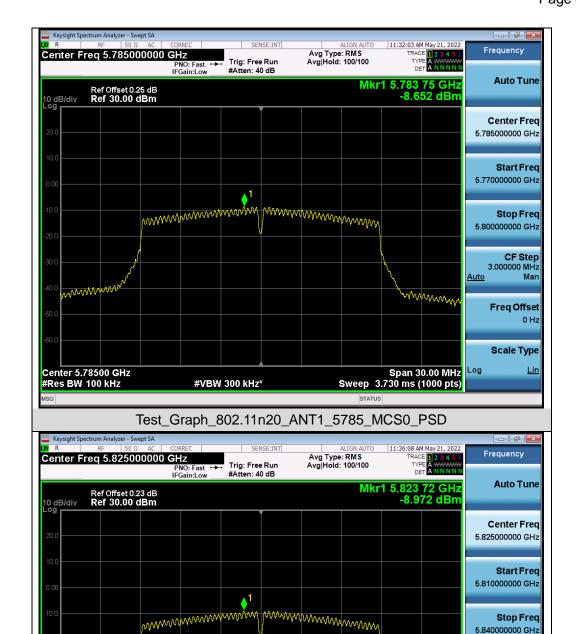
Mar

<u>Auto</u>

Log

Span 30.00 MHz Sweep 3.730 ms (1000 pts)





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Test_Graph_802.11n20_ANT1_5825_MCS0_PSD

#VBW 300 kHz*

ለላለላሊ

Center 5.82500 GHz #Res BW 100 kHz

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

6.000000 MHz

Freq Offset 0 Hz

Scale Type

Mar

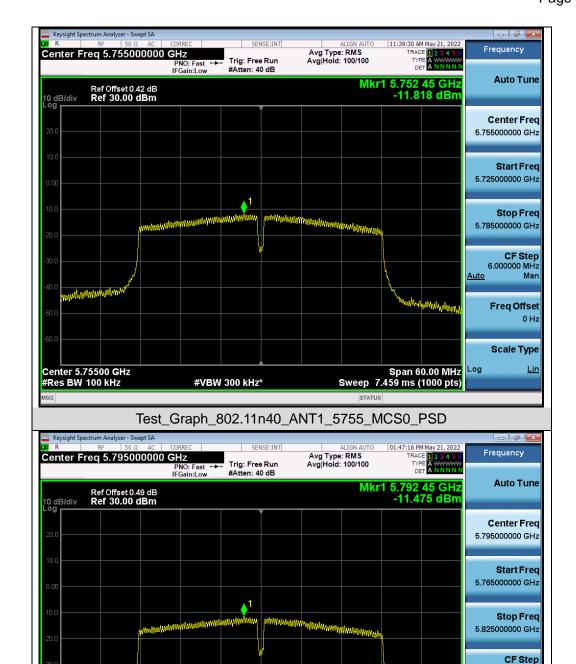
<u>Auto</u>

Log

andayla

Span 60.00 MHz Sweep 7.459 ms (1000 pts)





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Test_Graph_802.11n40_ANT1_5795_MCS0_PSD

#VBW 300 kHz*

Center 5.79500 GHz #Res BW 100 kHz

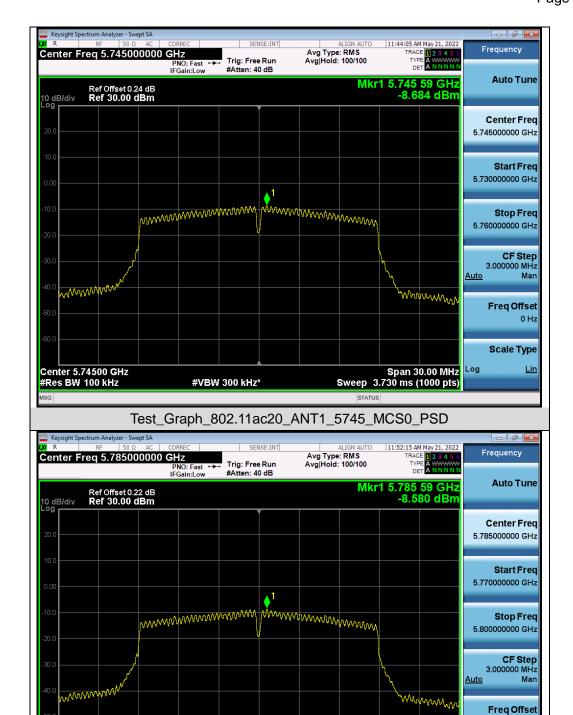
0 Hz

Scale Type

Log

Span 30.00 MHz Sweep 3.730 ms (1000 pts)





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Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

#VBW 300 kHz*

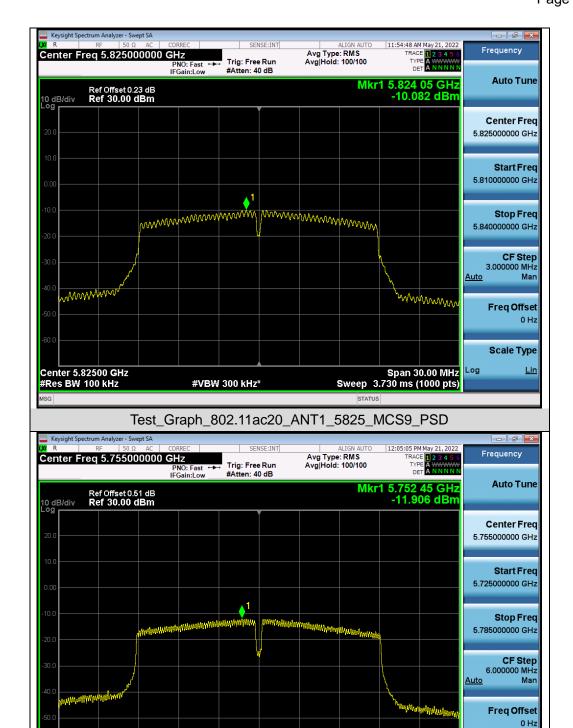
Center 5.78500 GHz #Res BW 100 kHz

Scale Type

Log

Span 60.00 MHz Sweep 7.459 ms (1000 pts)





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Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD

#VBW 300 kHz*

Center 5.75500 GHz #Res BW 100 kHz

Stop Freq 5.835000000 GHz

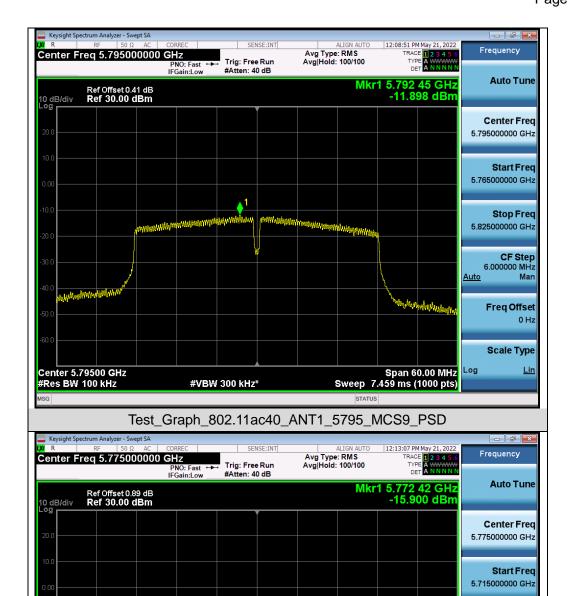
CF Step 12.000000 MHz

> Freq Offset 0 Hz

Mar

<u>Auto</u>





Center 5.77500 GHz
#Res BW 100 kHz #VBW 300 kHz* Sweep 14.85 ms (1000 pts)

Test_Graph_802.11ac80_ANT1_5775_MCS9_PSD

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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

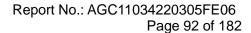
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test channel	Criteri			
	5150MHz-5250MH	a			
-27dBm/MHz	z	PASS			
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above					
below the band edge					
increasing linearly to 10 dBm/MHz at 25 MHz above or below	5725MHz-5850MH	D4.00			
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	z	PASS			
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.					

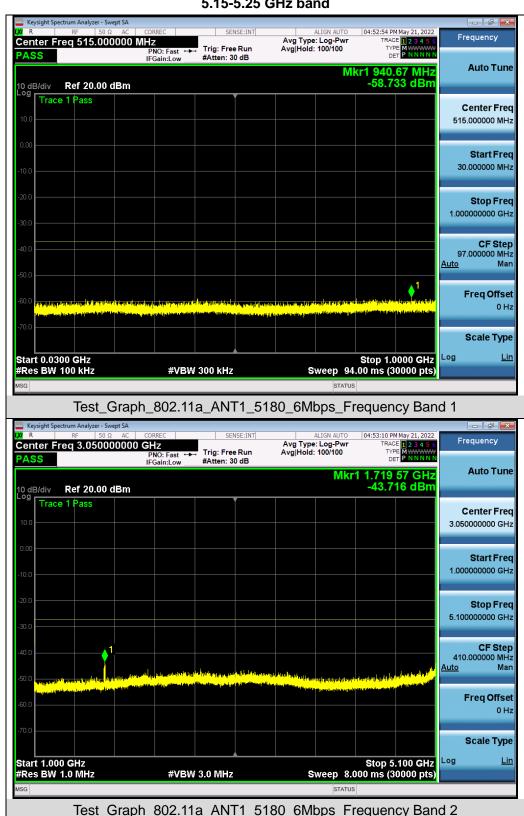
Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

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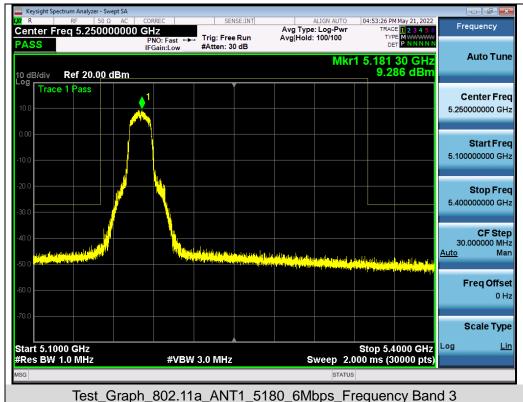


Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



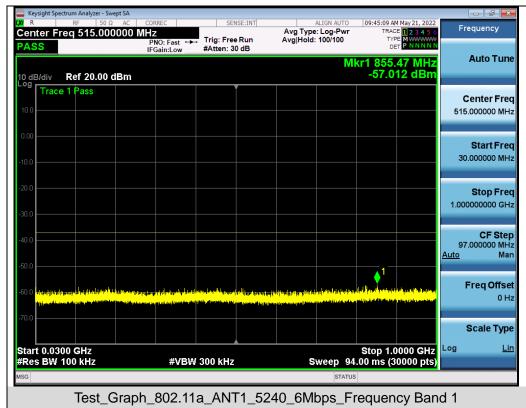
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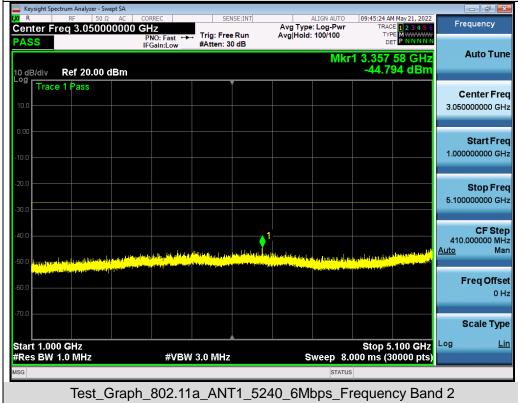




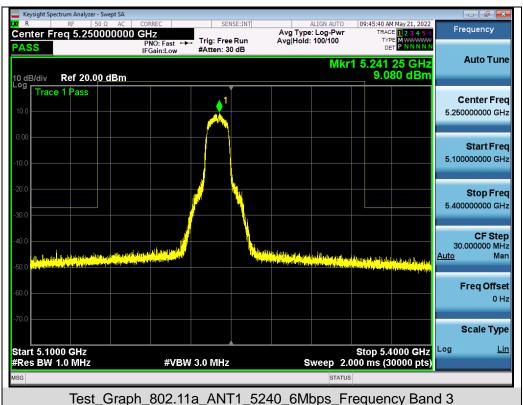














1.000000000 GHz

5.100000000 GHz

<u>Auto</u>

Log

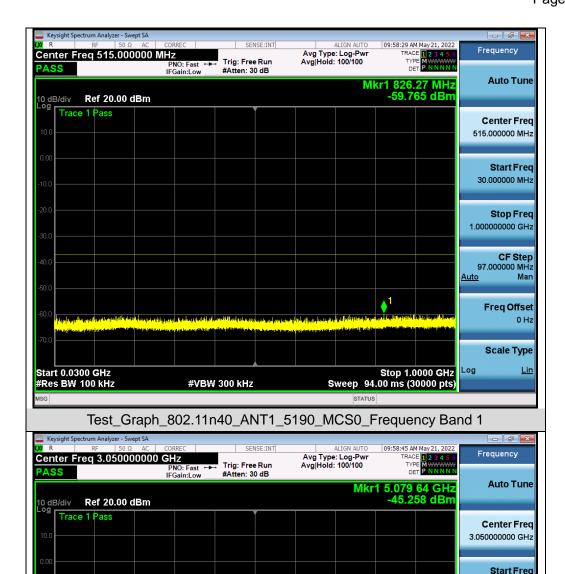
Stop 5.100 GHz Sweep 8.000 ms (30000 pts) CF Step 410.000000 MHz

> Freq Offset 0 Hz

Scale Type

Mar





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Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 2

#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz







CF Step 410.000000 MHz

> Freq Offset 0 Hz

Scale Type

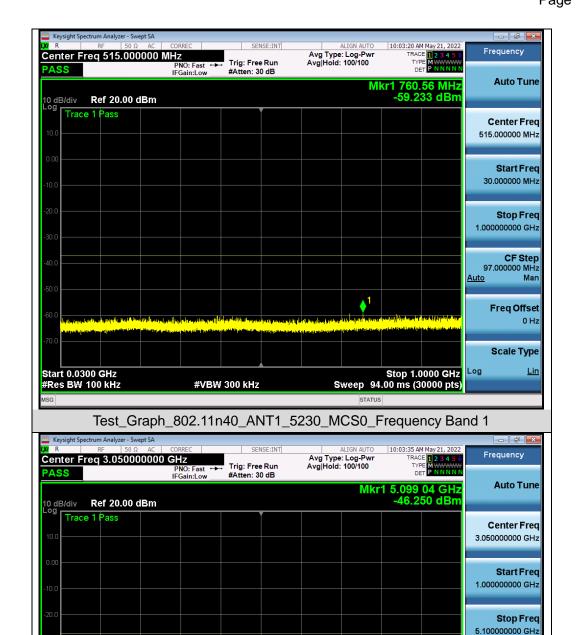
Mar

<u>Auto</u>

Log

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)





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Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 2

#VBW 3.0 MHz

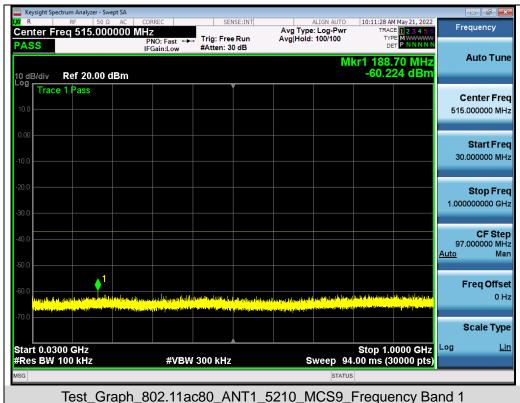
Start 1.000 GHz #Res BW 1.0 MHz

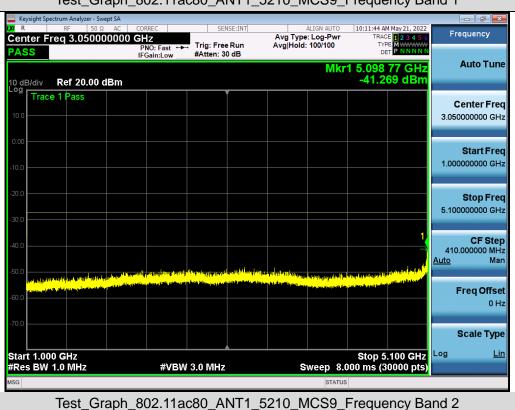








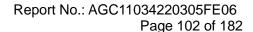






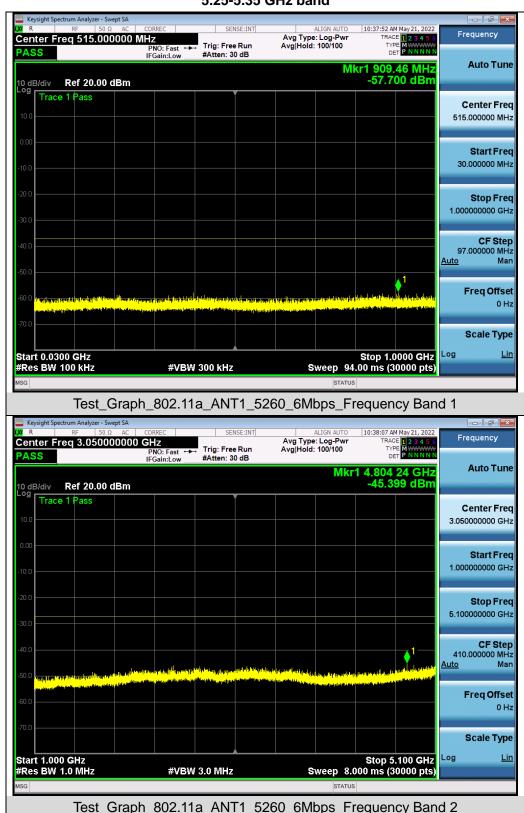






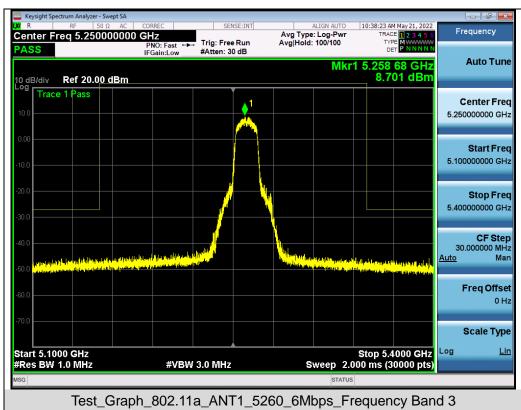


Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



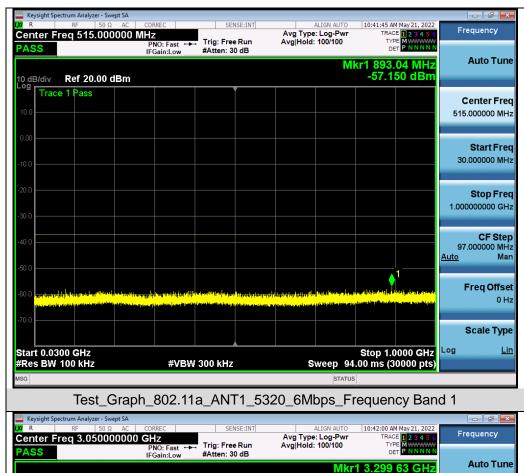
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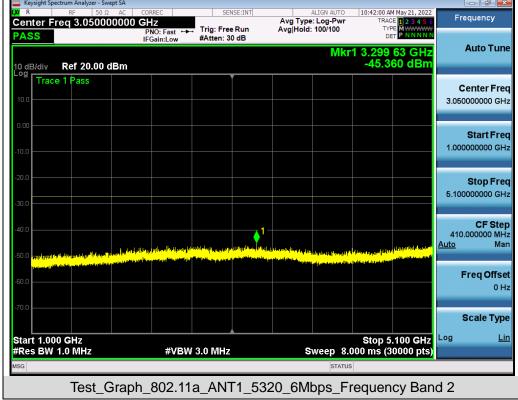




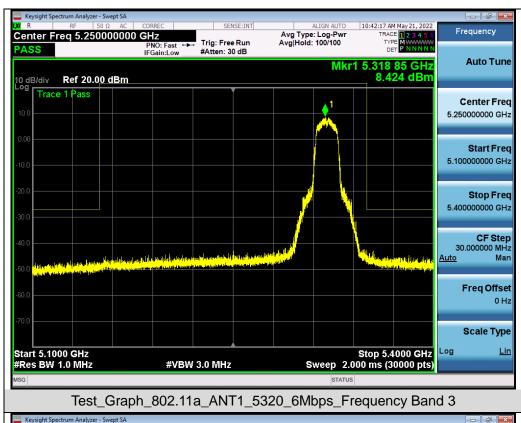






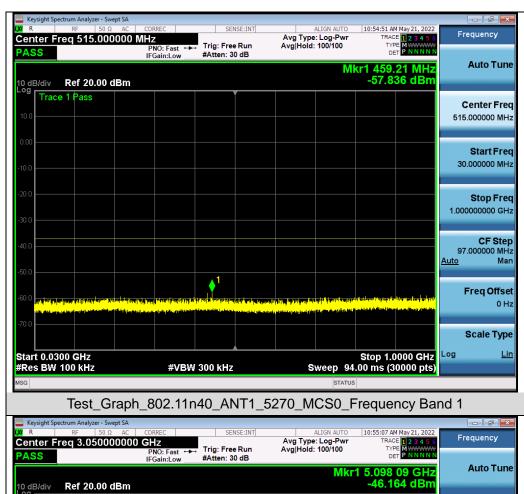


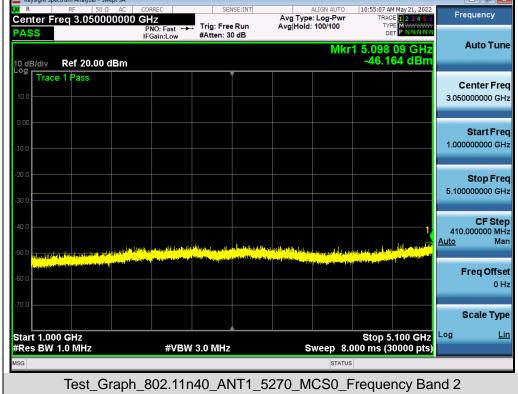




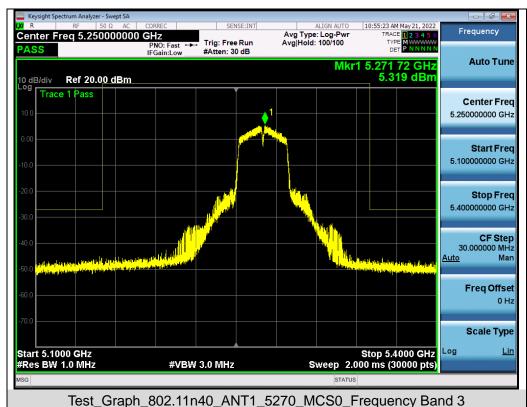






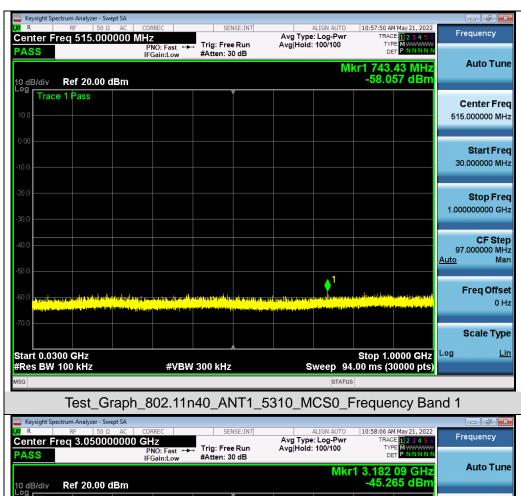


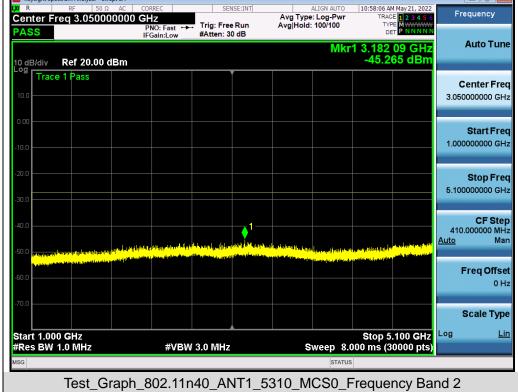




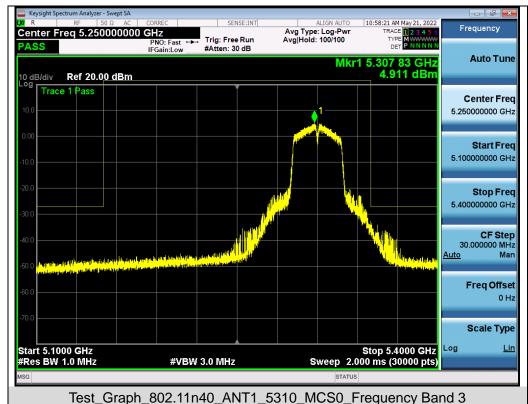






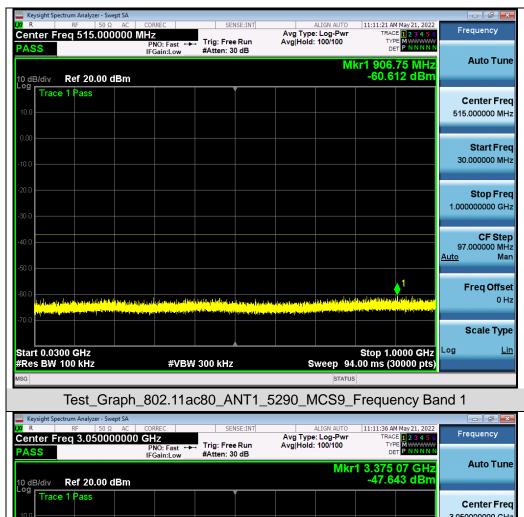










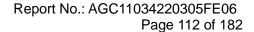


3.050000000 GHz Start Fred 1.000000000 GHz 5.100000000 GHz **CF Step** 410.000000 MHz <u>Auto</u> Mar Freq Offset 0 Hz Scale Type Start 1.000 GHz #Res BW 1.0 MHz Stop 5.100 GHz Sweep 8.000 ms (30000 pts) Log #VBW 3.0 MHz Test_Graph_802.11ac80_ANT1_5290_MCS9_Frequency Band 2



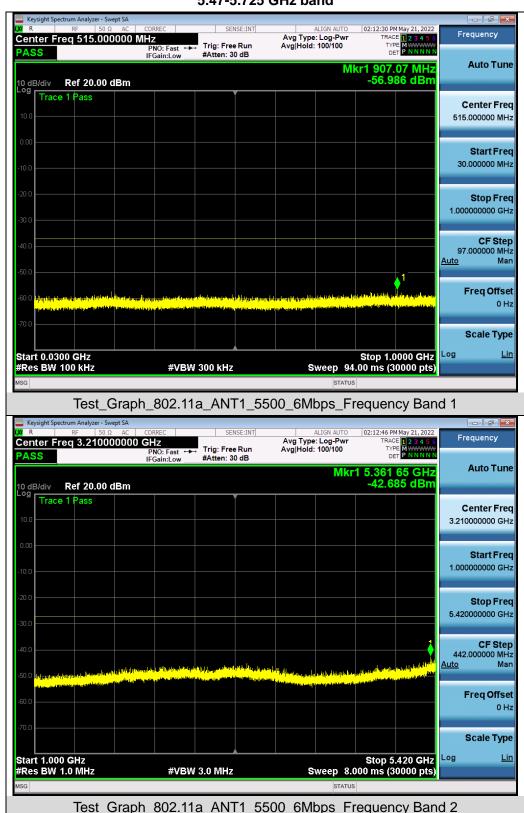








Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.47-5.725 GHz band



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