



Test_Graph_802.11n40_ANT1_5590_MCS0_PSD





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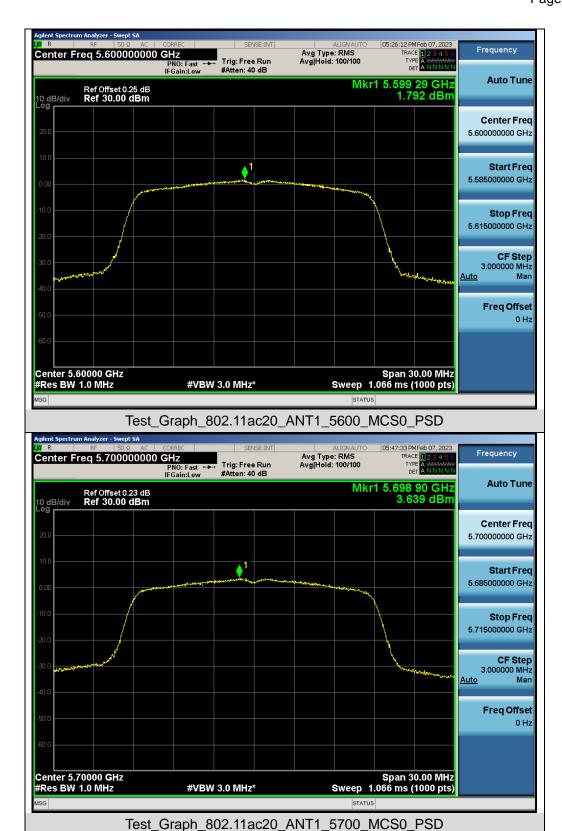
Test_Graph_802.11ac20_ANT1_5500_MCS0_PSD

#VBW 3.0 MHz*

Span 30.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.50000 GHz #Res BW 1.0 MHz









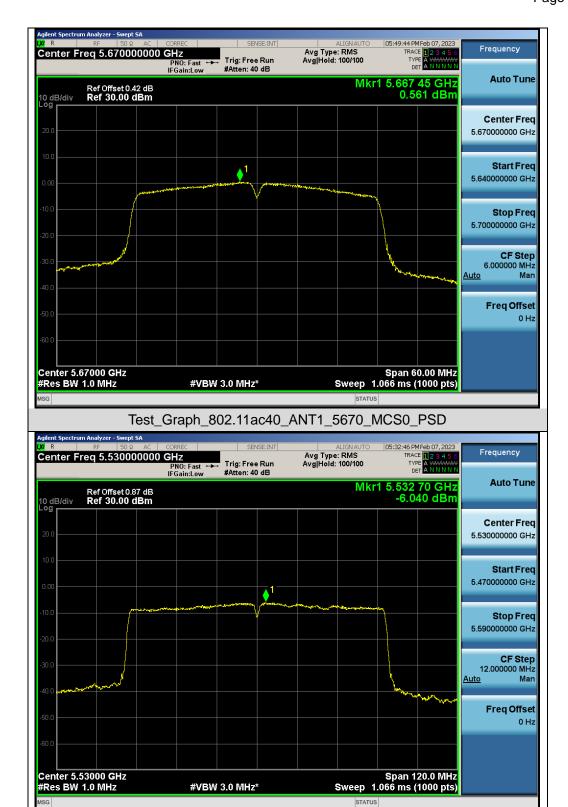
Test_Graph_802.11ac40_ANT1_5590_MCS0_PSD

#VBW 3.0 MHz*

Span 60.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.59000 GHz #Res BW 1.0 MHz





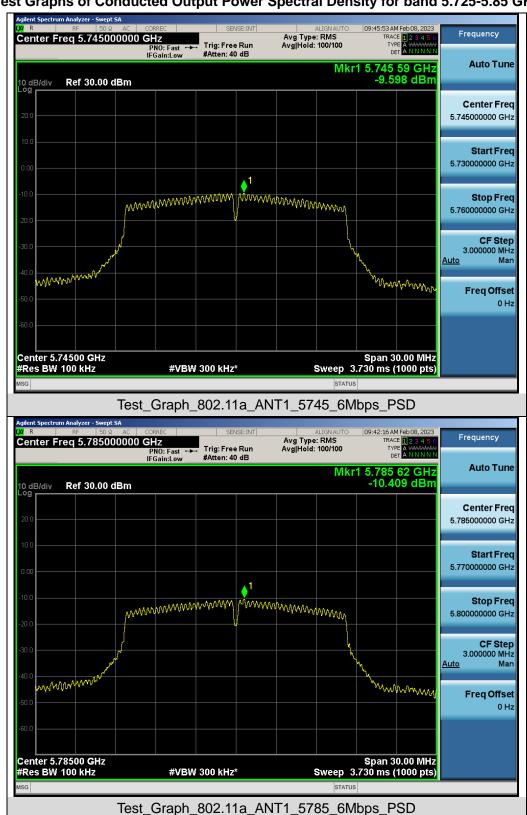
Test_Graph_802.11ac80_ANT1_5530_MCS0_PSD







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

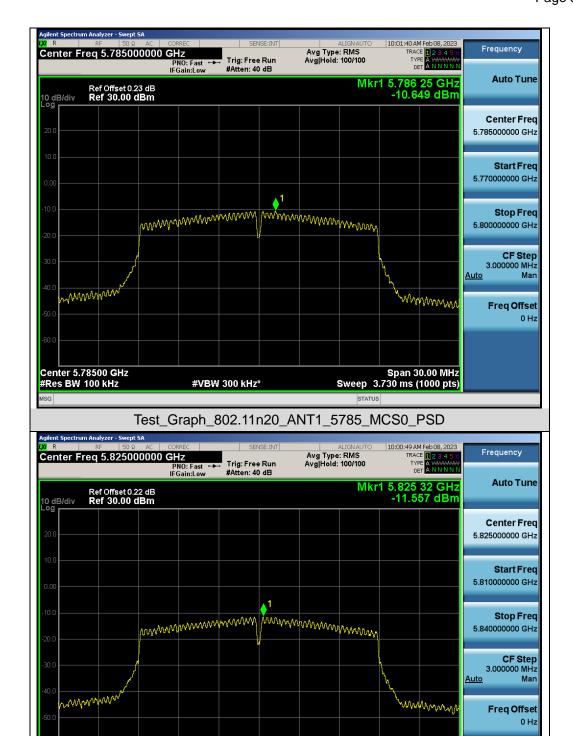






Test_Graph_802.11n20_ANT1_5745_MCS0_PSD





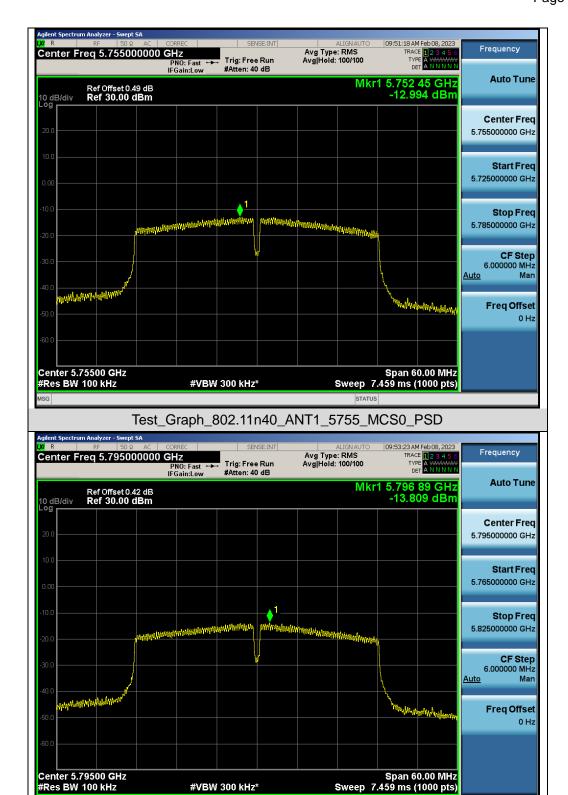
Test_Graph_802.11n20_ANT1_5825_MCS0_PSD

#VBW 300 kHz*

Span 30.00 MHz Sweep 3.730 ms (1000 pts)

Center 5.82500 GHz #Res BW 100 kHz

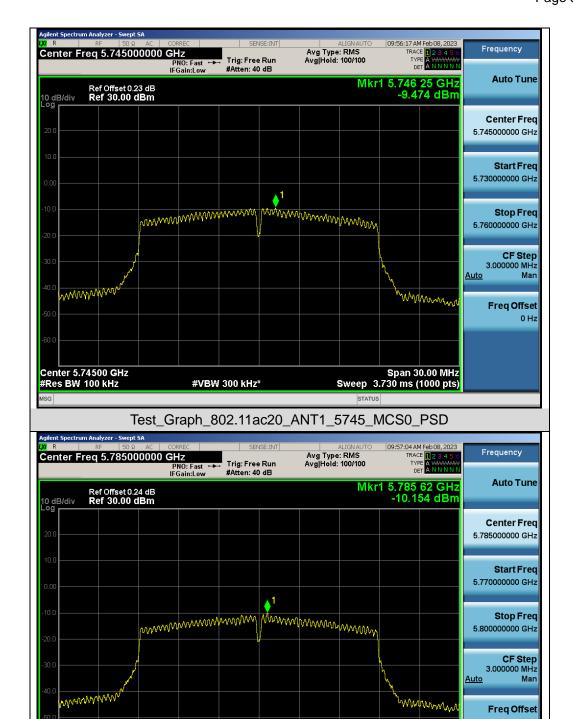




Test_Graph_802.11n40_ANT1_5795_MCS0_PSD

#VBW 300 kHz*





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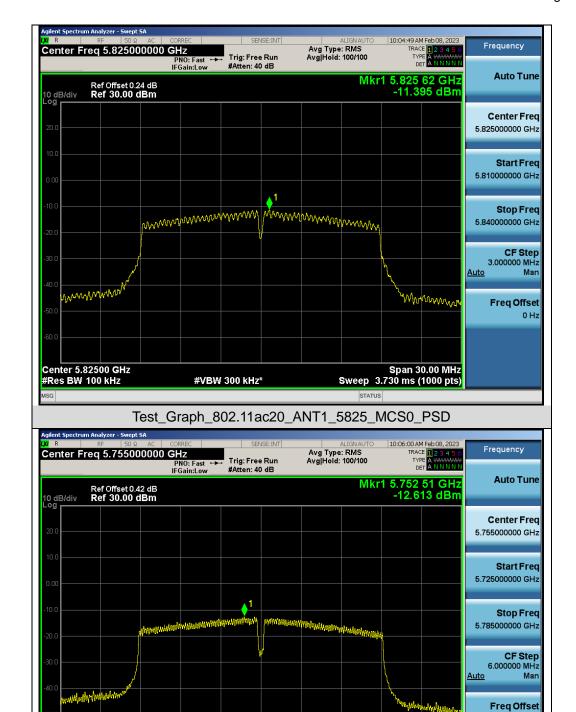
Test_Graph_802.11ac20_ANT1_5785_MCS0_PSD

#VBW 300 kHz*

Span 30.00 MHz Sweep 3.730 ms (1000 pts)

Center 5.78500 GHz #Res BW 100 kHz





Test_Graph_802.11ac40_ANT1_5755_MCS0_PSD

#VBW 300 kHz*

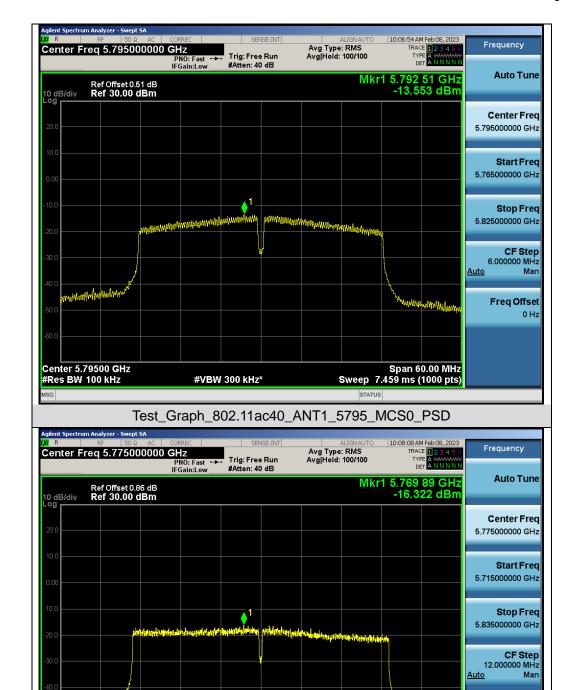
Span 60.00 MHz Sweep 7.459 ms (1000 pts)

Center 5.75500 GHz #Res BW 100 kHz

Freq Offset

Span 120.0 MHz Sweep 14.85 ms (1000 pts)





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Test_Graph_802.11ac80_ANT1_5775_MCS0_PSD

#VBW 300 kHz*

Center 5.77500 GHz #Res BW 100 kHz



Report No.: AGC10232230103FE06

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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.

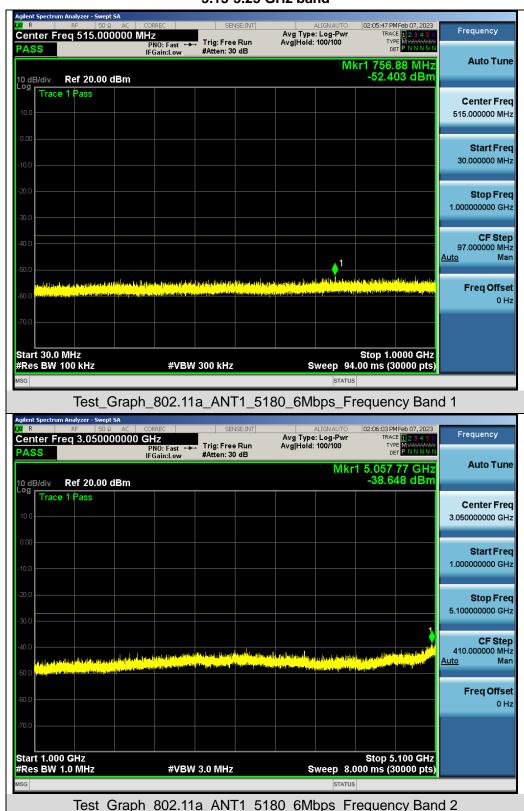
10.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteri
-27dBm/MHz	5150MHz-5250MH z	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, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MH z	PASS

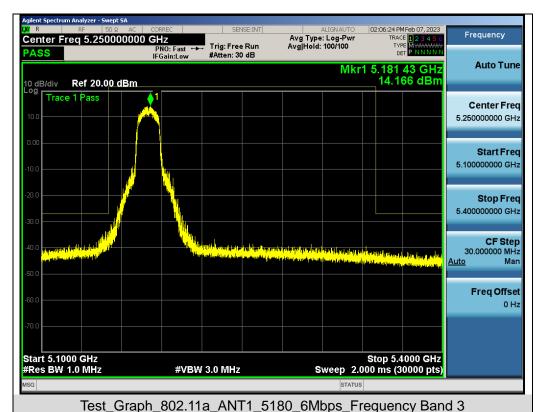
Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80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

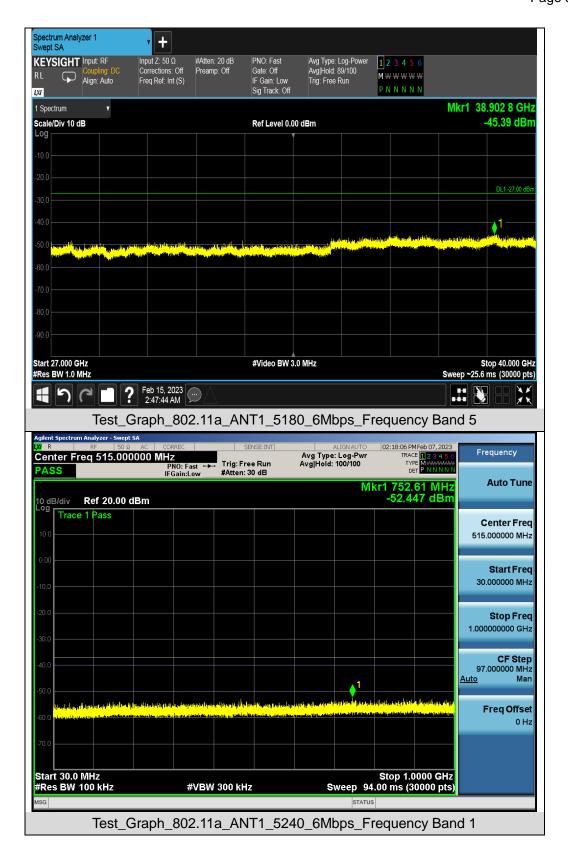




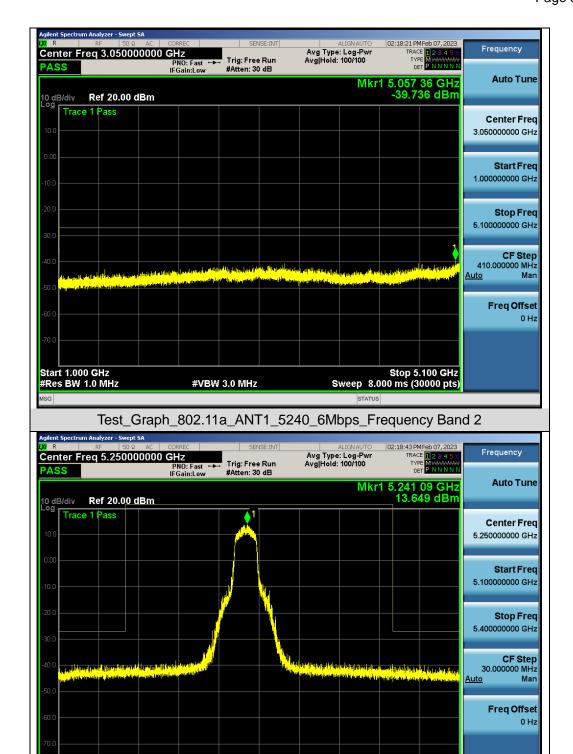


02:06:45 PM Feb 07, 2023 Frequency Center Freq 16.200000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast →→ IFGain:Low **PASS Auto Tune** Mkr1 25.385 0 GHz -30.893 dBm 10 dB/div Ref 20.00 dBm Trace 1 Center Frea 16.200000000 GHz Start Freq 5 400000000 GHz Stop Frea 27.000000000 GHz **CF Step** 2.160000000 GHz Man Freq Offset Start 5.40 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 56.00 ms (30000 pts) #VBW 3.0 MHz Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 4









Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 3

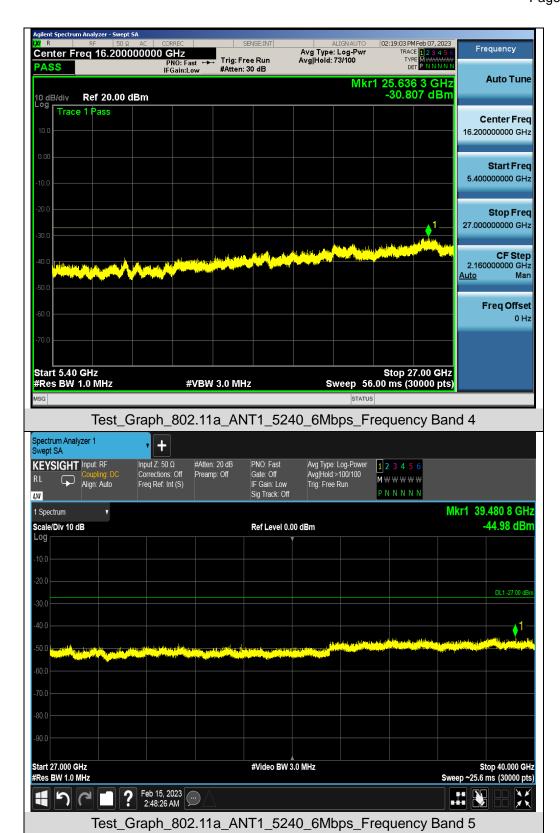
#VBW 3.0 MHz

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)

Start 5.1000 GHz #Res BW 1.0 MHz

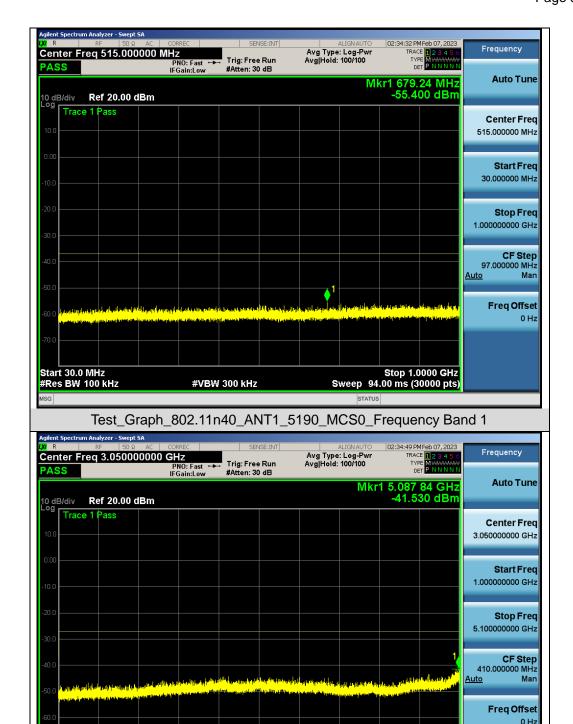
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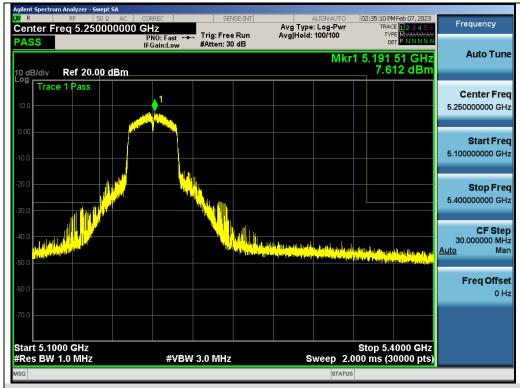
Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 2

#VBW 3.0 MHz

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)

Start 1.000 GHz #Res BW 1.0 MHz

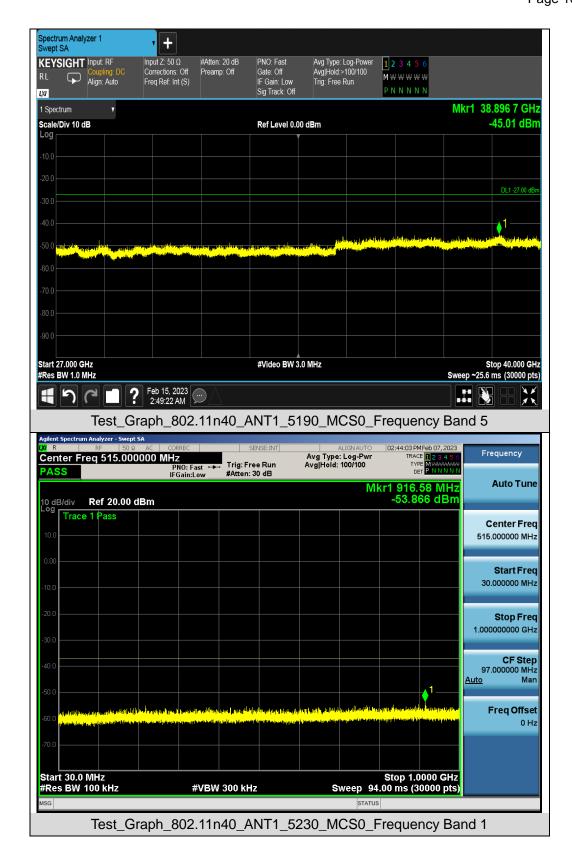




Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 3

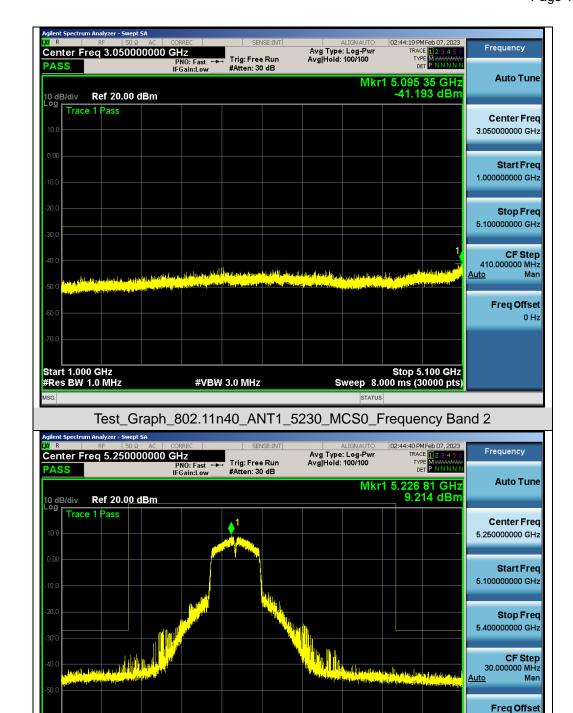






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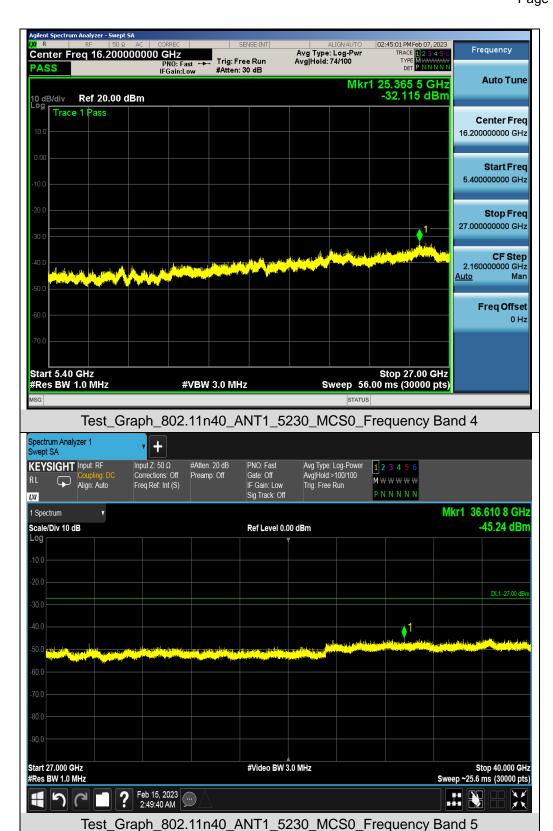
Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 3

#VBW 3.0 MHz

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)

Start 5.1000 GHz #Res BW 1.0 MHz



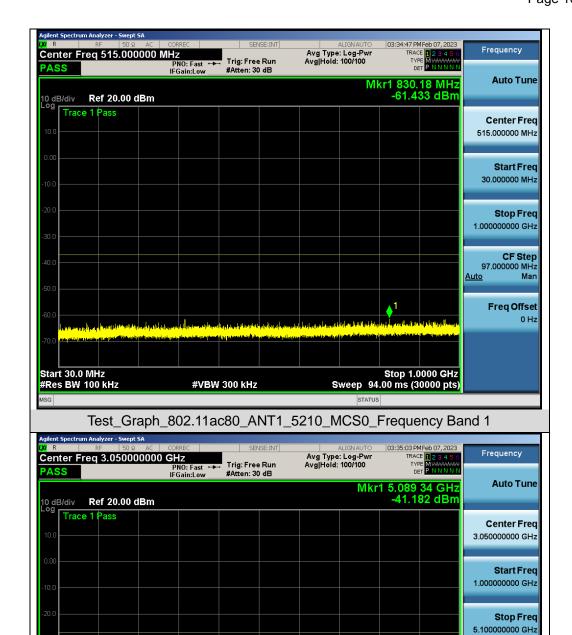


CF Step 410.000000 MHz to Man

Freq Offset

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)





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Test_Graph_802.11ac80_ANT1_5210_MCS0_Frequency Band 2

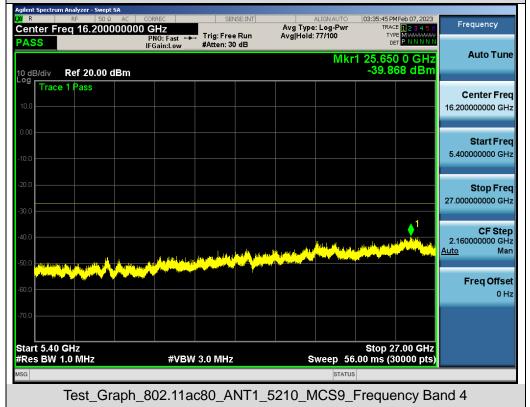
#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz

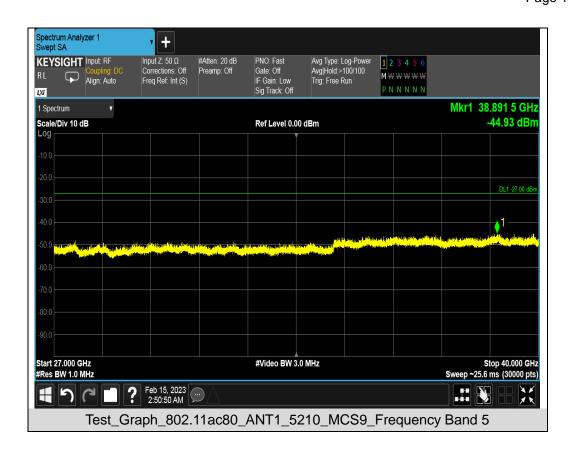




Test_Graph_802.11ac80_ANT1_5210_MCS0_Frequency Band 3

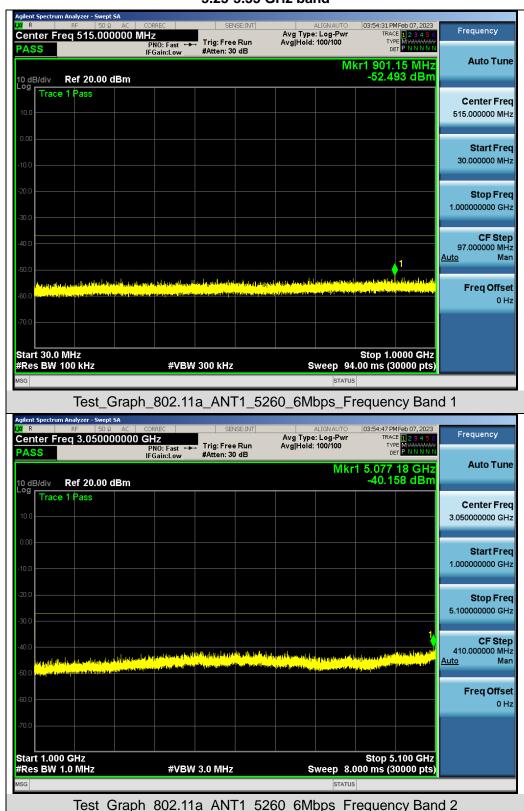








Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



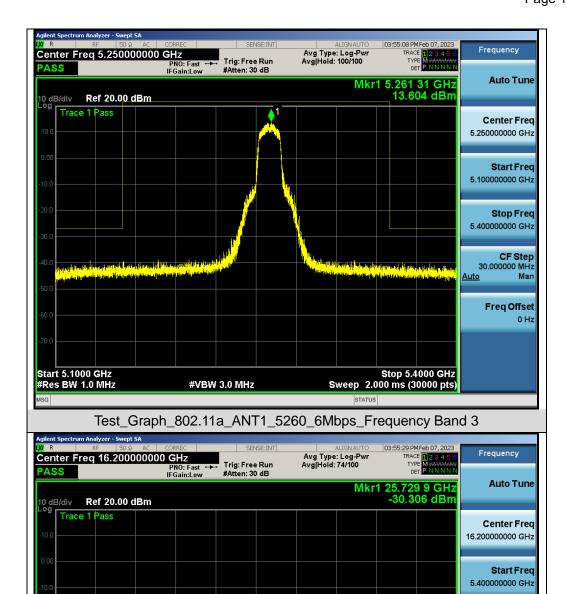
Stop Freq 27.000000000 GHz

Man

CF Step 2.160000000 GHz

Freq Offset





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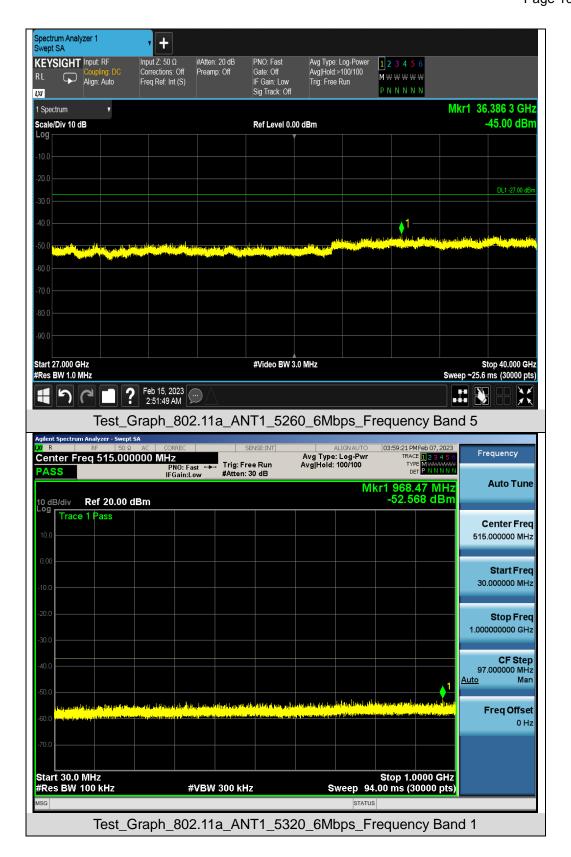
Test_Graph_802.11a_ANT1_5260_6Mbps_Frequency Band 4

#VBW 3.0 MHz

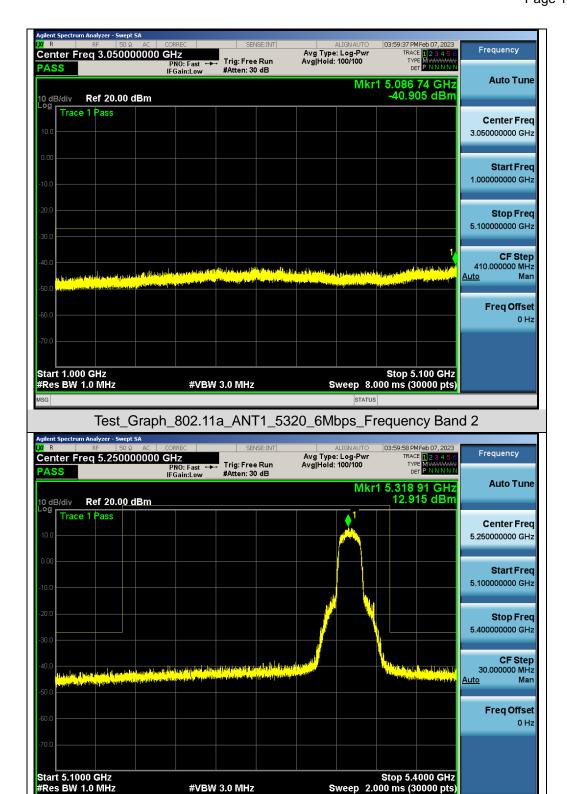
Stop 27.00 GHz Sweep 56.00 ms (30000 pts)

Start 5.40 GHz #Res BW 1.0 MHz





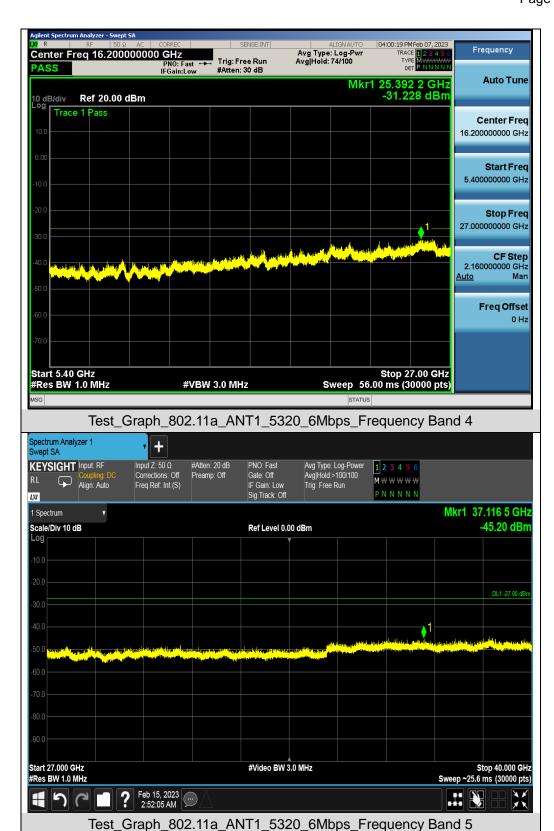




Test_Graph_802.11a_ANT1_5320_6Mbps_Frequency Band 3

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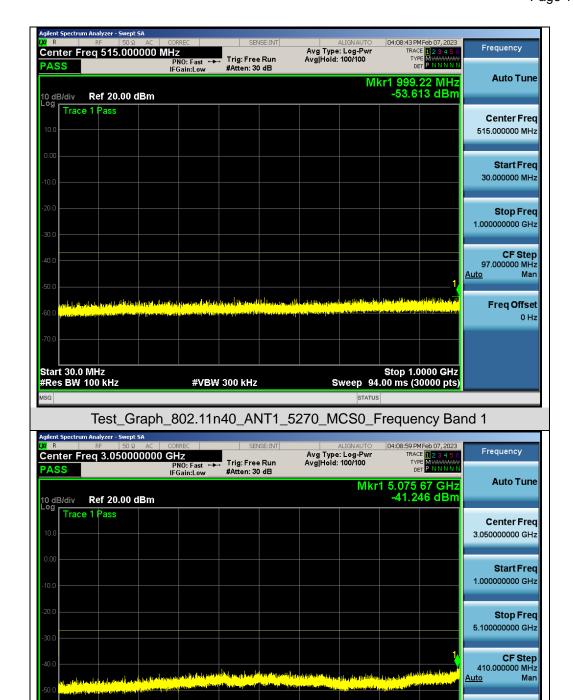




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Freq Offset





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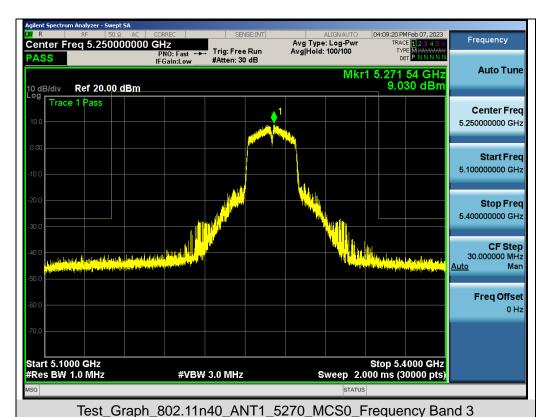
Test_Graph_802.11n40_ANT1_5270_MCS0_Frequency Band 2

#VBW 3.0 MHz

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)

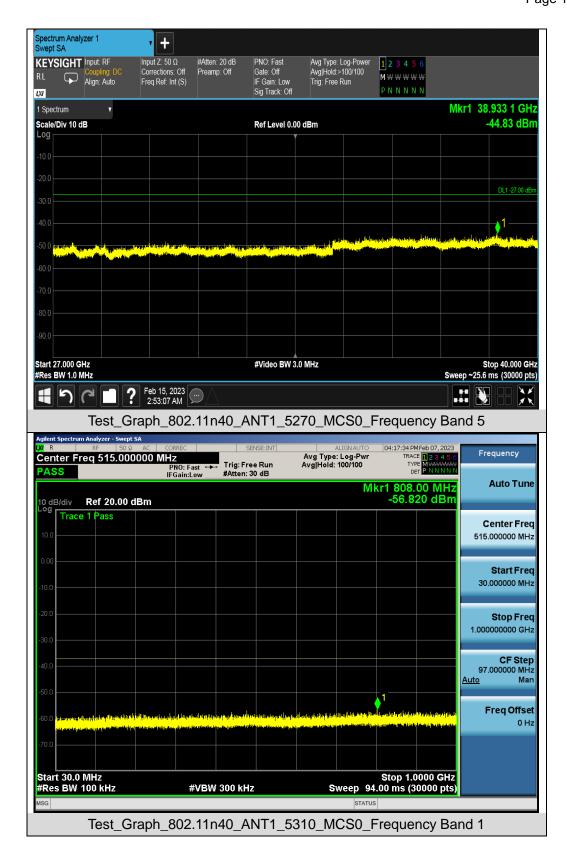
Start 1.000 GHz #Res BW 1.0 MHz





04:09:41 PMFeb 07, 2023 Avg Type: Log-Pwr Avg|Hold: 74/100 Frequency Center Freq 16.200000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast →→ IFGain:Low **PASS Auto Tune** Mkr1 25.756 5 GHz -30.801 dBm 10 dB/div Ref 20.00 dBm Trace 1 Center Frea 16.200000000 GHz Start Freq 5 400000000 GHz Stop Frea 27.000000000 GHz **CF Step** 2.160000000 GHz Man Freq Offset Start 5.40 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 56.00 ms (30000 pts) #VBW 3.0 MHz Test_Graph_802.11n40_ANT1_5270_MCS0_Frequency Band 4

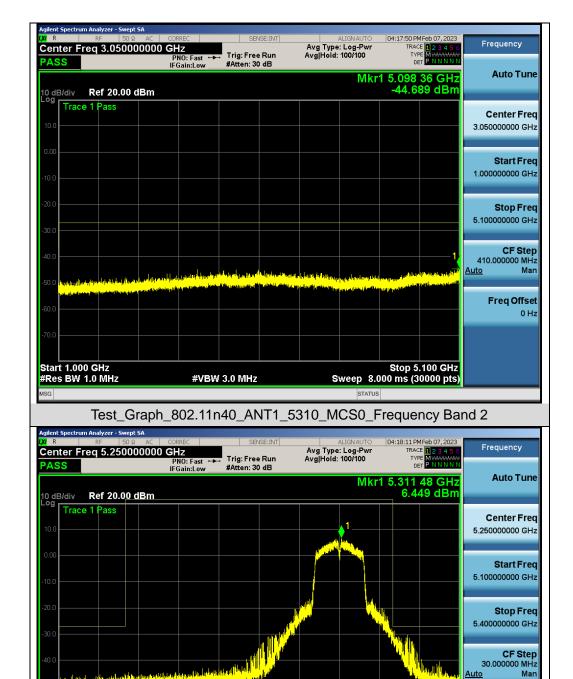




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Freq Offset





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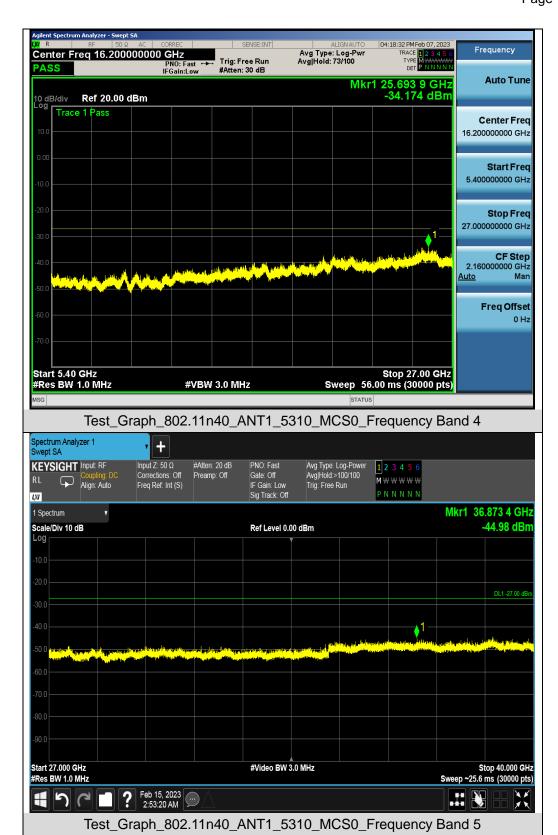
Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 3

#VBW 3.0 MHz

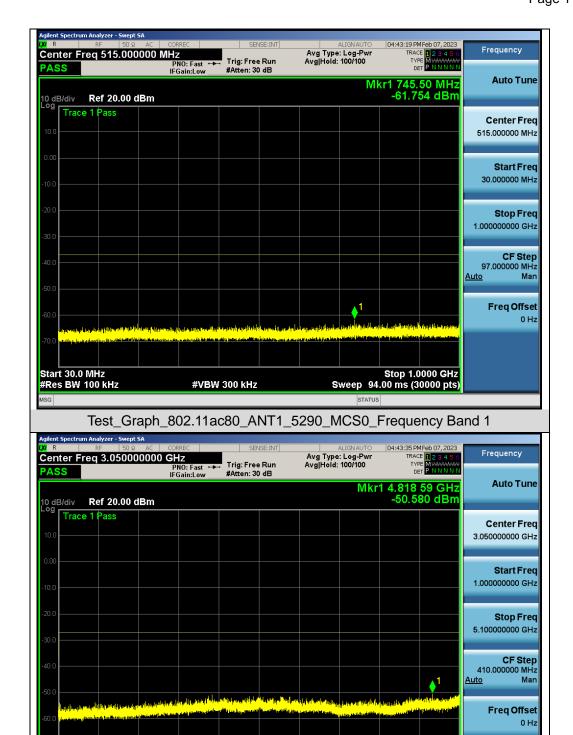
Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)

Start 5.1000 GHz #Res BW 1.0 MHz









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Test_Graph_802.11ac80_ANT1_5290_MCS0_Frequency Band 2

#VBW 3.0 MHz

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)

Start 1.000 GHz #Res BW 1.0 MHz

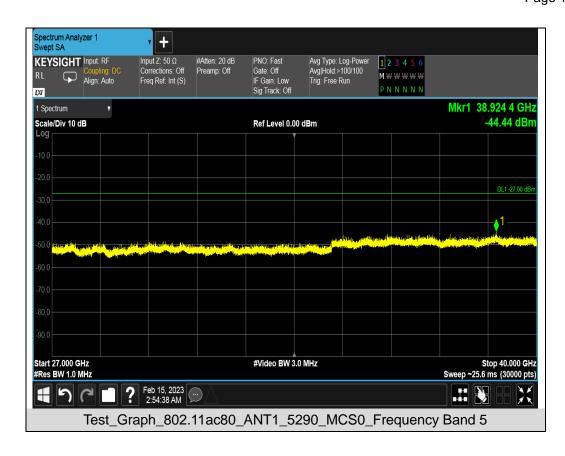




Test_Graph_802.11ac80_ANT1_5290_MCS0_Frequency Band 3

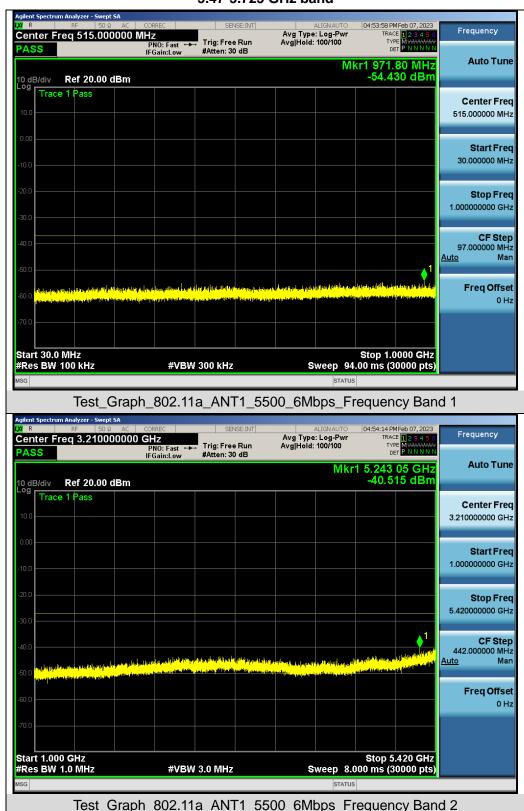








Test Graphs of Spurious Emissions outside of the 5.47-5.725 GHz band for transmitters operating in the 5.47-5.725 GHz band

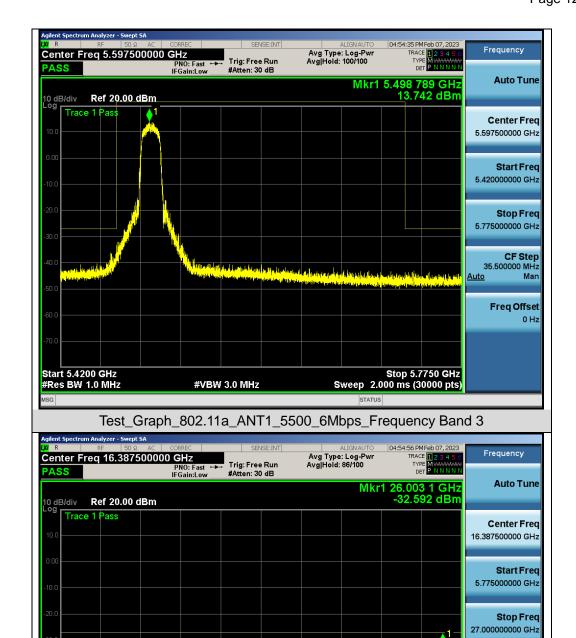


2.122500000 GHz uto Man

Freq Offset

Stop 27.00 GHz Sweep 54.00 ms (30000 pts)





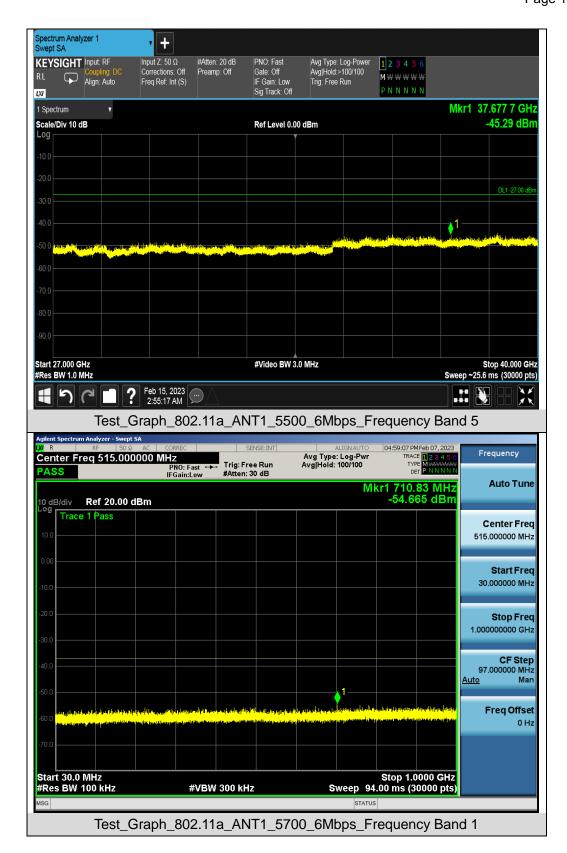
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Test_Graph_802.11a_ANT1_5500_6Mbps_Frequency Band 4

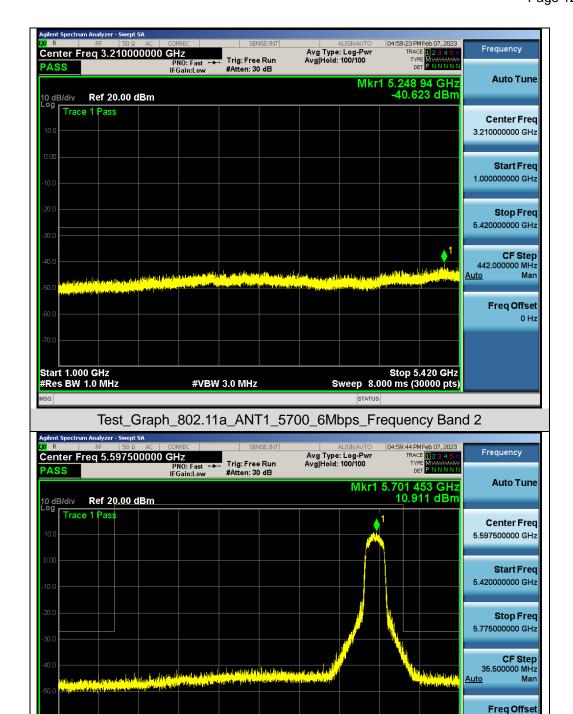
#VBW 3.0 MHz

Start 5.78 GHz #Res BW 1.0 MHz









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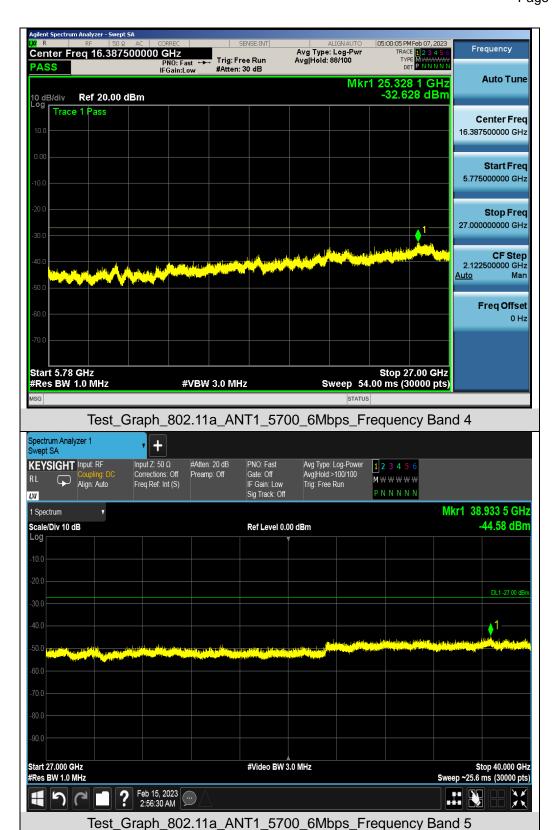
Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 3

#VBW 3.0 MHz

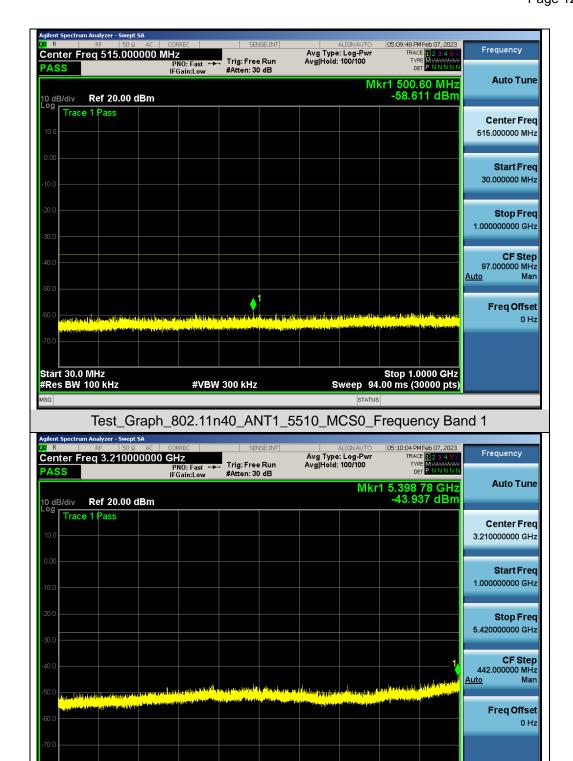
Stop 5.7750 GHz Sweep 2.000 ms (30000 pts)

Start 5.4200 GHz #Res BW 1.0 MHz









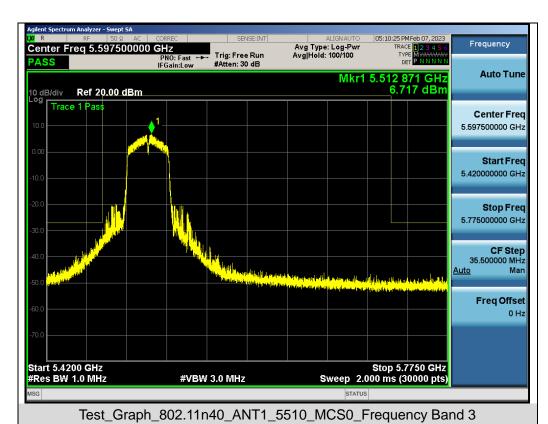
Test_Graph_802.11n40_ANT1_5510_MCS0_Frequency Band 2

#VBW 3.0 MHz

Stop 5.420 GHz Sweep 8.000 ms (30000 pts)

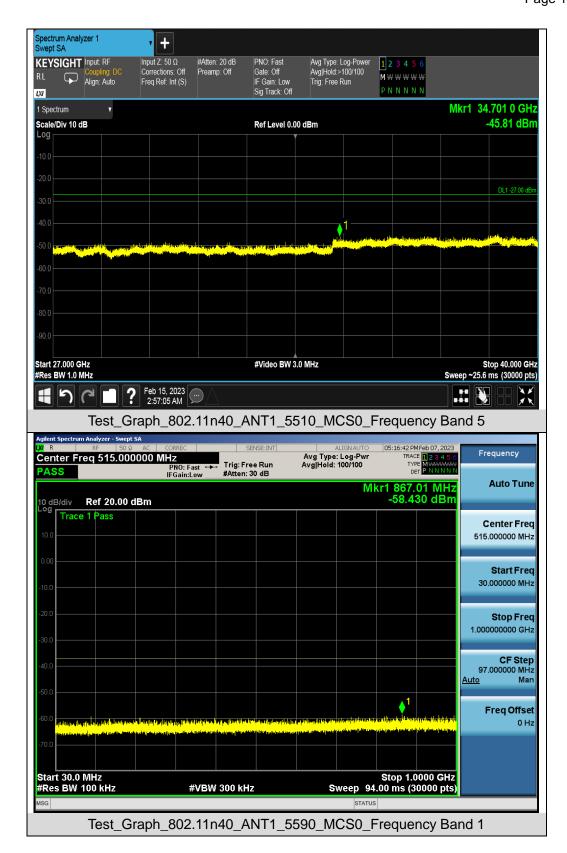
Start 1.000 GHz #Res BW 1.0 MHz



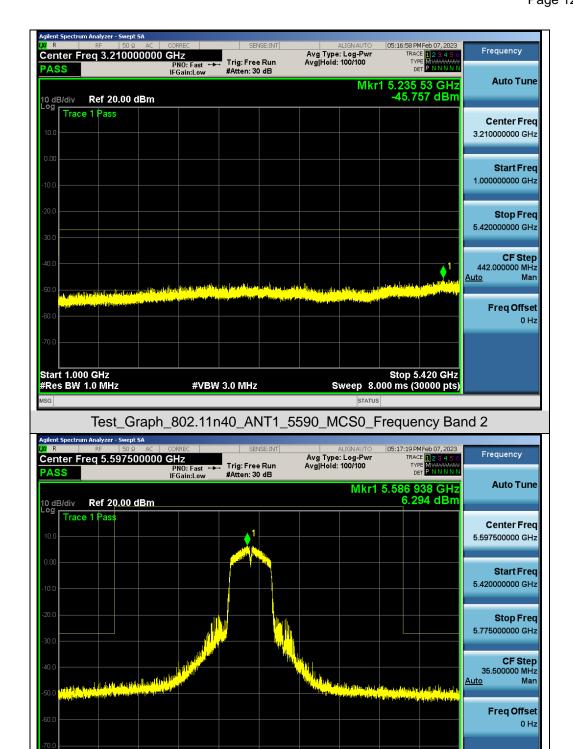


05:10:46 PMFeb 07, 2023 Avg Type: Log-Pwr Avg|Hold: 84/100 Frequency Center Freq 16.387500000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast →→ IFGain:Low **PASS Auto Tune** Mkr1 26.037 1 GHz -36.748 dBm 10 dB/div Ref 20.00 dBm Trace 1 Center Frea 16.387500000 GHz Start Freq 5 775000000 GHz Stop Frea 27.000000000 GHz 2.122500000 GHz Man Freq Offset Start 5.78 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 54.00 ms (30000 pts) #VBW 3.0 MHz Test_Graph_802.11n40_ANT1_5510_MCS0_Frequency Band 4









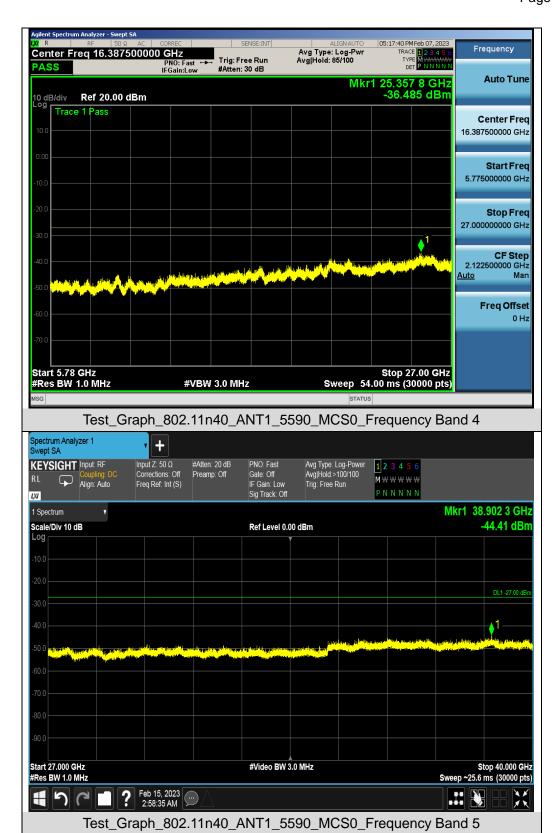
Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 3

#VBW 3.0 MHz

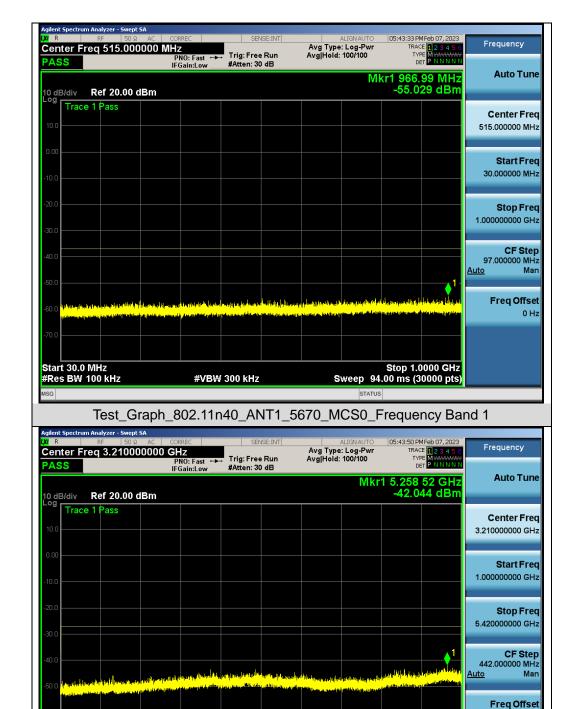
Stop 5.7750 GHz Sweep 2.000 ms (30000 pts)

Start 5.4200 GHz #Res BW 1.0 MHz









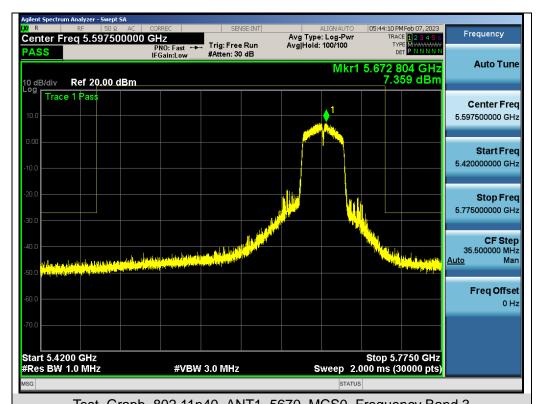
Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 2

#VBW 3.0 MHz

Stop 5.420 GHz Sweep 8.000 ms (30000 pts)

Start 1.000 GHz #Res BW 1.0 MHz

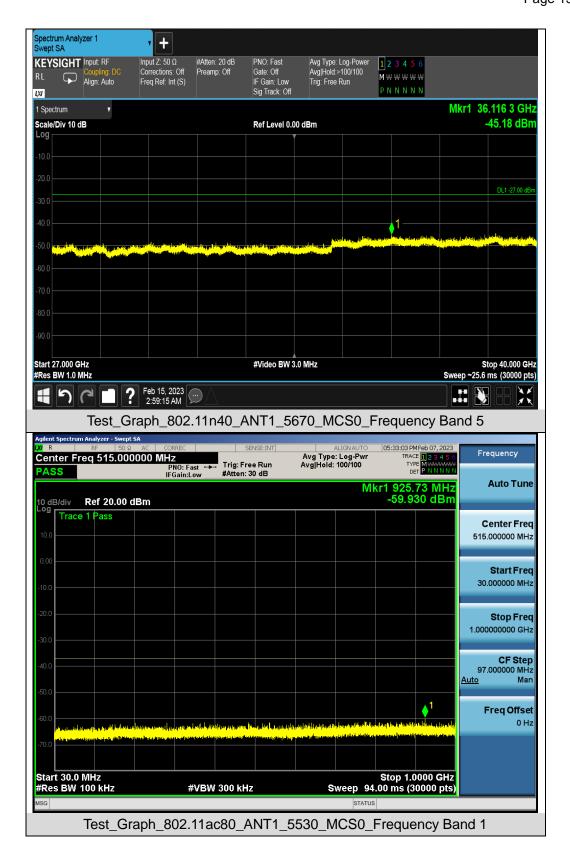




Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 3





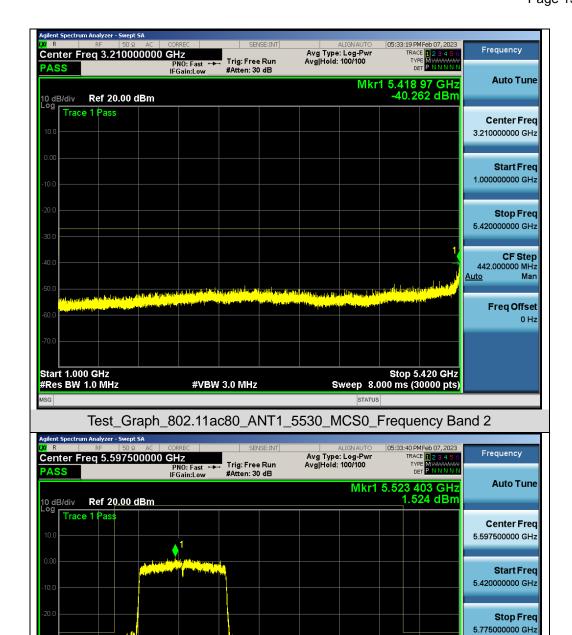


35.500000 MHz Man

Freq Offset

Stop 5.7750 GHz Sweep 2.000 ms (30000 pts)





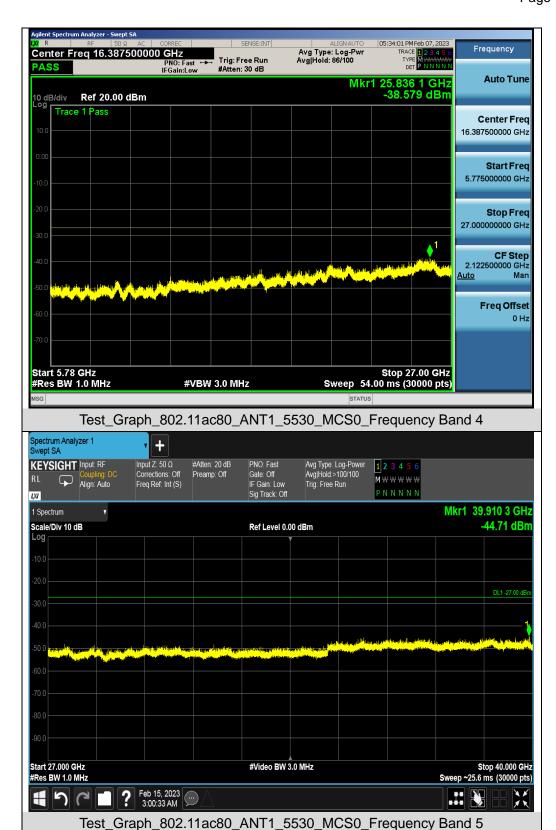
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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_5530_MCS0_Frequency Band 3

#VBW 3.0 MHz

Start 5.4200 GHz #Res BW 1.0 MHz





5.420000000 GHz

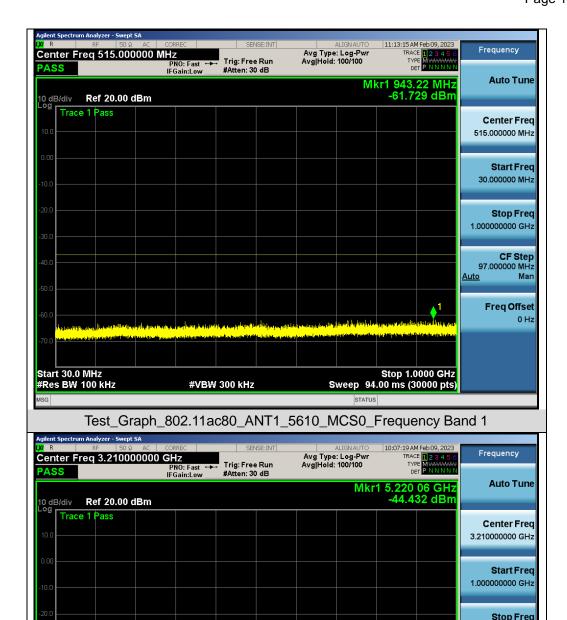
CF Step 442.000000 MHz to Man

Freq Offset

Auto

Stop 5.420 GHz Sweep 8.000 ms (30000 pts)





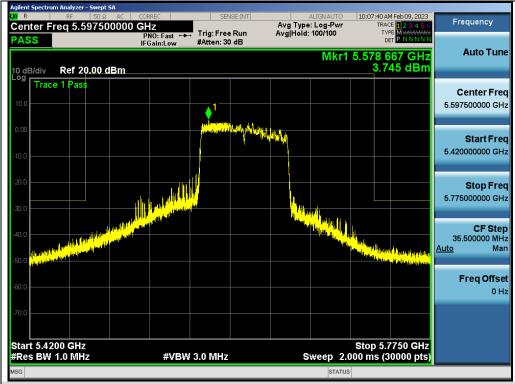
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Test_Graph_802.11ac80_ANT1_5610_MCS0_Frequency Band 2

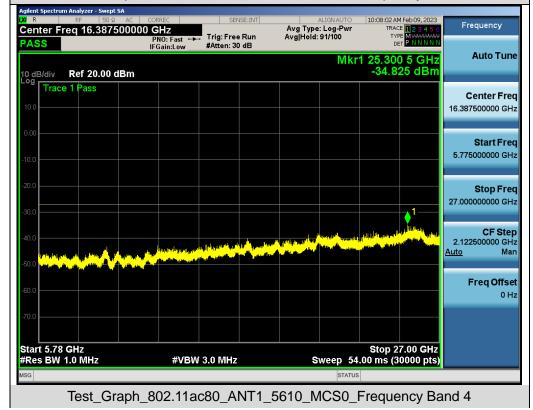
#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz

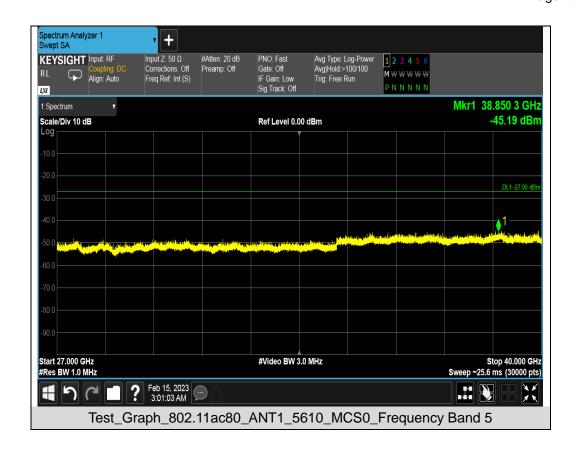




Test_Graph_802.11ac80_ANT1_5610_MCS0_Frequency Band 3

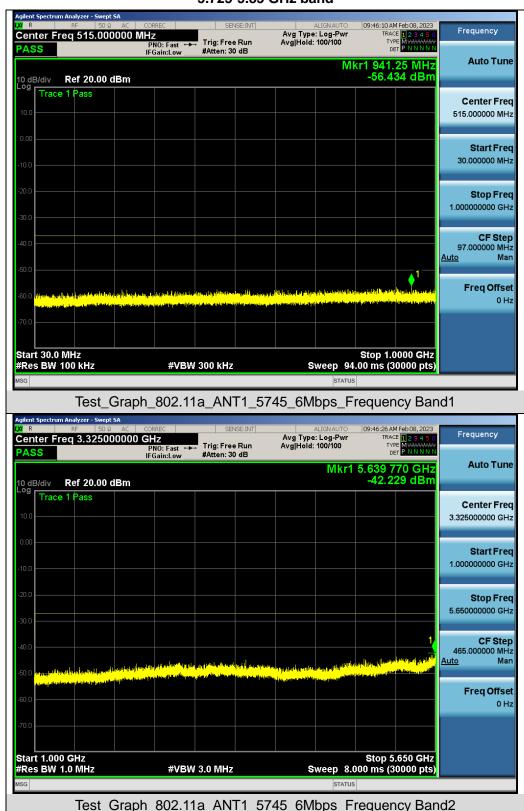




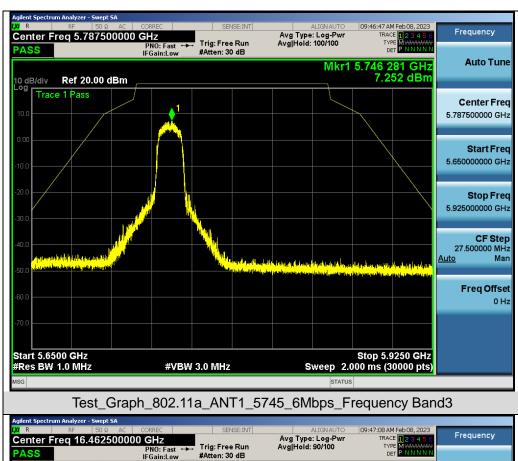




Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band

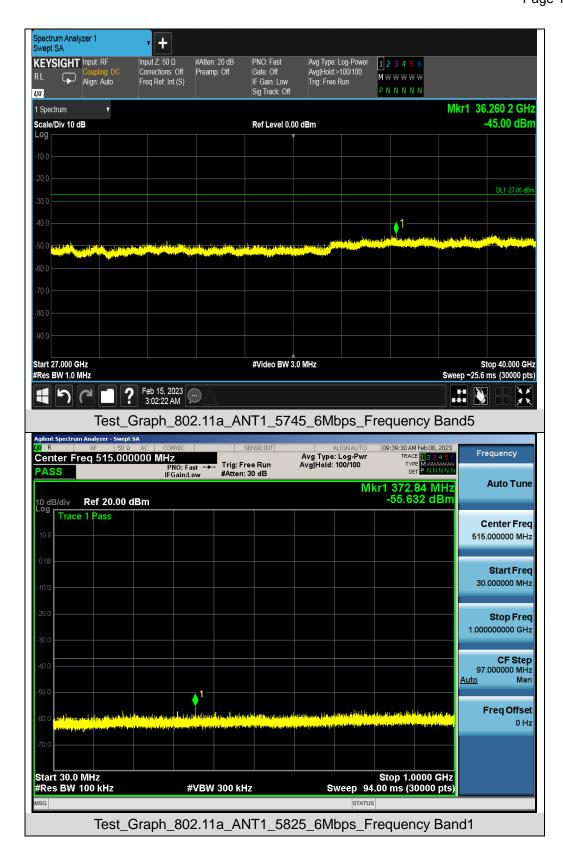




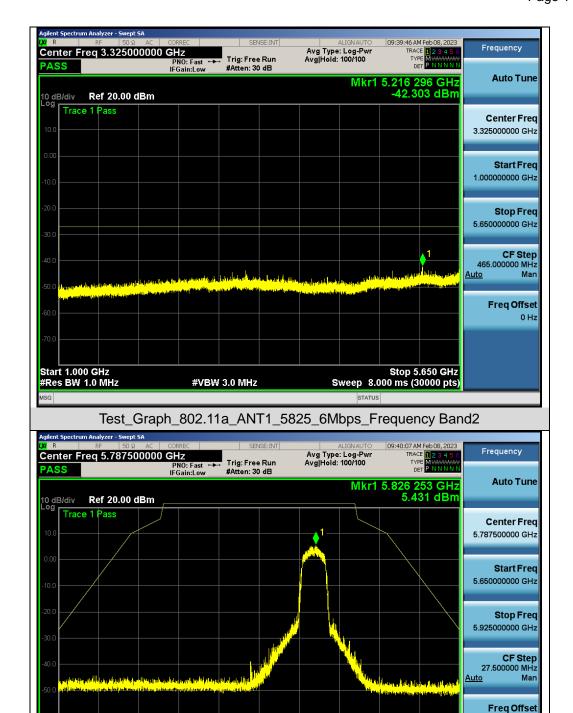












Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band3

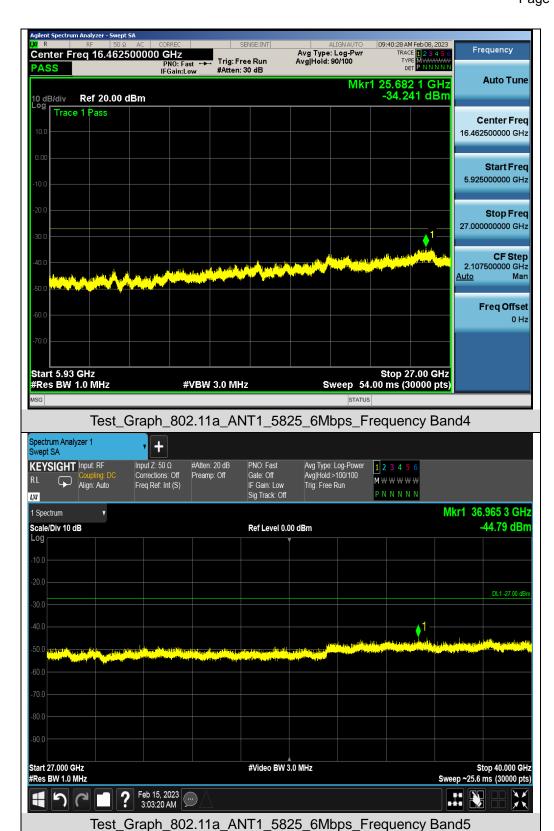
#VBW 3.0 MHz

Stop 5.9250 GHz Sweep 2.000 ms (30000 pts)

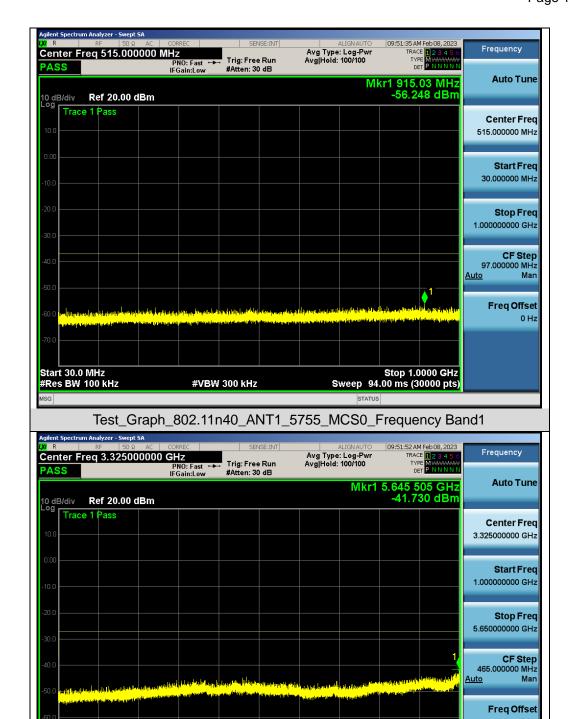
Start 5.6500 GHz #Res BW 1.0 MHz

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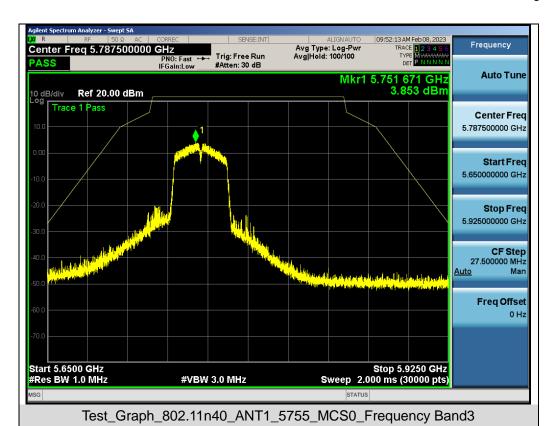
Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band2

#VBW 3.0 MHz

Stop 5.650 GHz Sweep 8.000 ms (30000 pts)

Start 1.000 GHz #Res BW 1.0 MHz

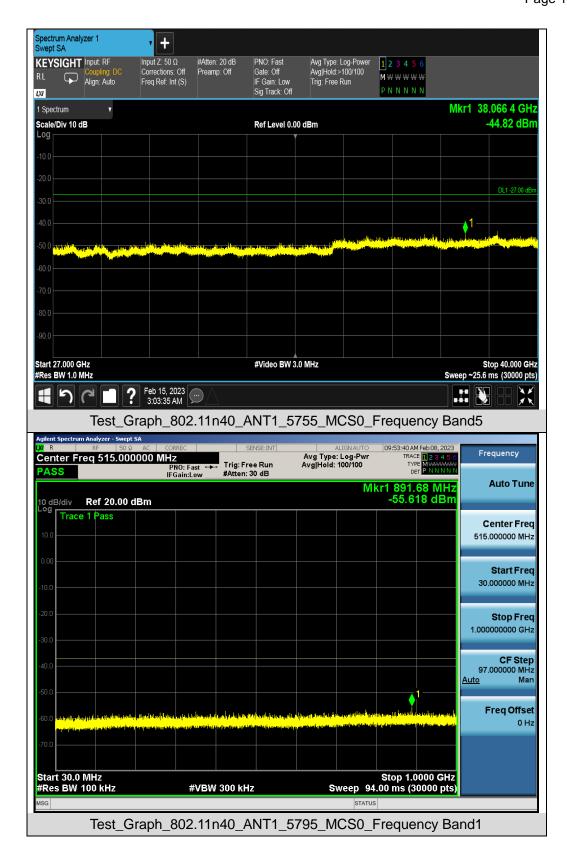




09:52:34 AM Feb 08, 2023 Avg Type: Log-Pwr Avg|Hold: 90/100 Center Freq 16.462500000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast →→ IFGain:Low **PASS Auto Tune** Mkr1 25.386 3 GHz -34.063 dBm 10 dB/div Ref 20.00 dBm Trace 1 Center Frea 16.462500000 GHz Start Freq 5.925000000 GHz Stop Frea 27.000000000 GHz 2.107500000 GHz Man Auto Freq Offset Start 5.93 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 54.00 ms (30000 pts) #VBW 3.0 MHz

Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band4

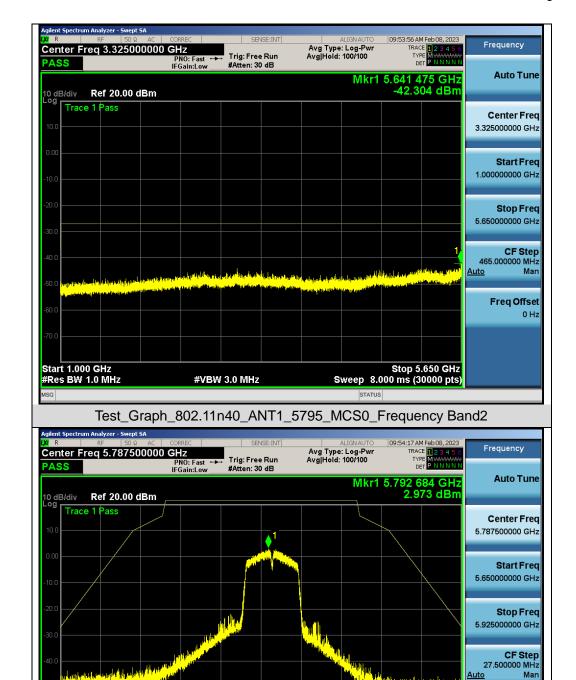




Freq Offset

Stop 5.9250 GHz Sweep 2.000 ms (30000 pts)





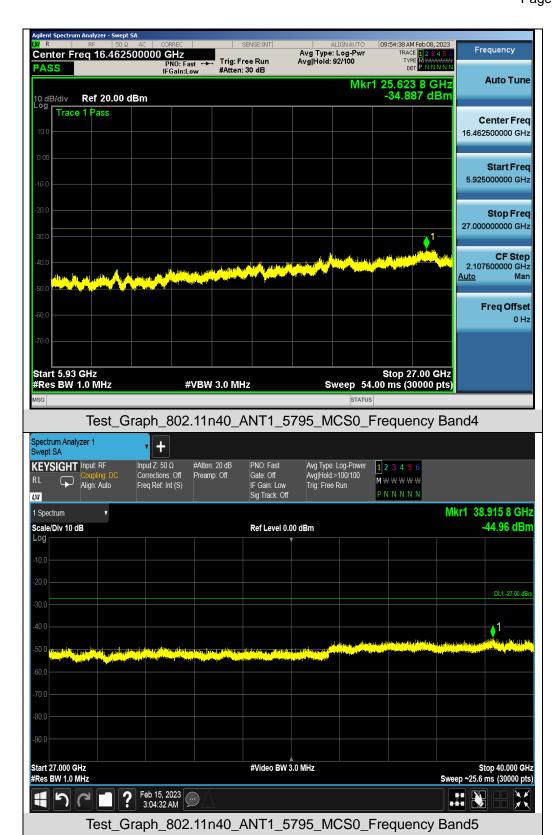
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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_802.11n40_ANT1_5795_MCS0_Frequency Band3

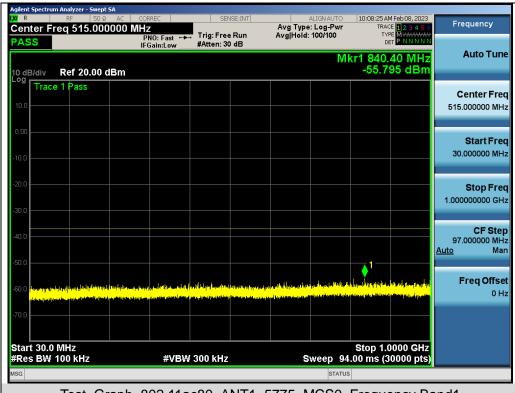
#VBW 3.0 MHz

Start 5.6500 GHz #Res BW 1.0 MHz

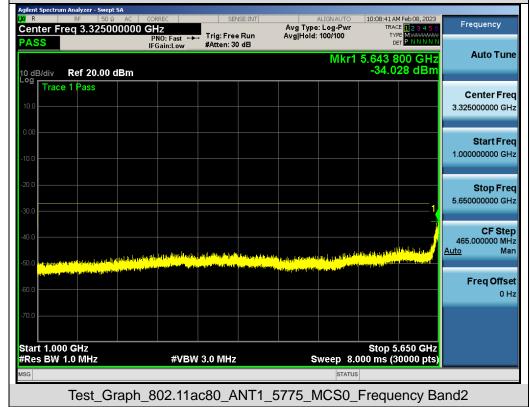




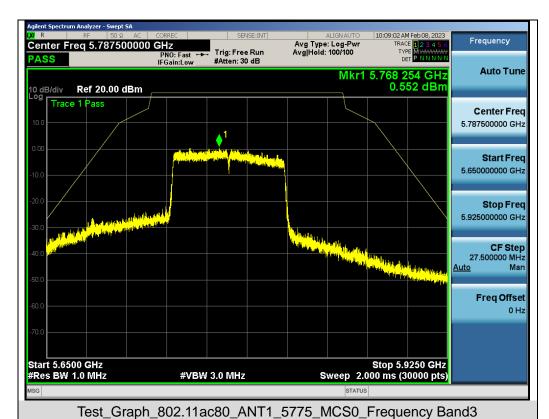




Test_Graph_802.11ac80_ANT1_5775_MCS0_Frequency Band1







10:09:23 AM Feb 08, 2023 Avg Type: Log-Pwr Avg|Hold: 92/100 Frequency Center Freq 16.462500000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast →→ IFGain:Low **PASS Auto Tune** Mkr1 26.002 4 GHz -33.758 dBm 10 dB/div Ref 20.00 dBm Trace 1 Center Frea 16.462500000 GHz Start Freq 5.925000000 GHz Stop Frea 27.000000000 GHz 2.107500000 GHz Man Freq Offset Start 5.93 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 54.00 ms (30000 pts) #VBW 3.0 MHz Test_Graph_802.11ac80_ANT1_5775_MCS0_Frequency Band4



