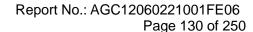
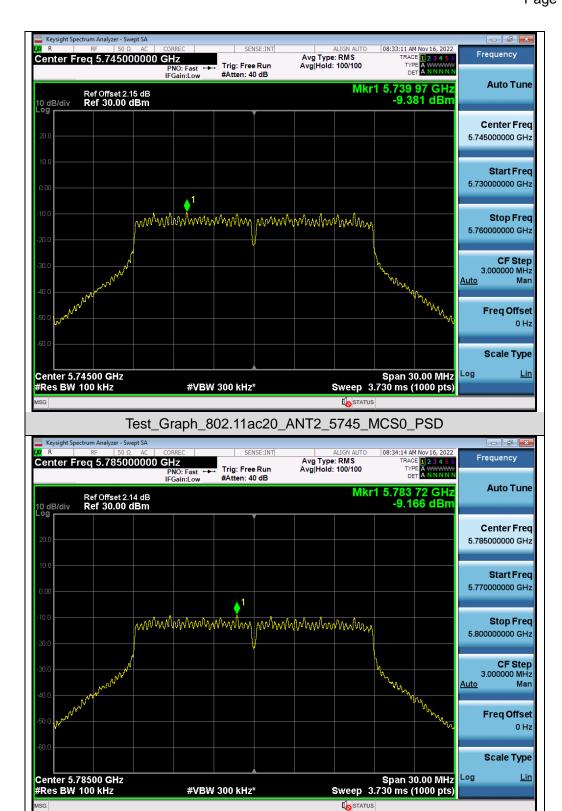


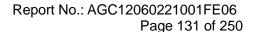
Test Graph 802.11n40 ANT2 5795 MCS0 PSD



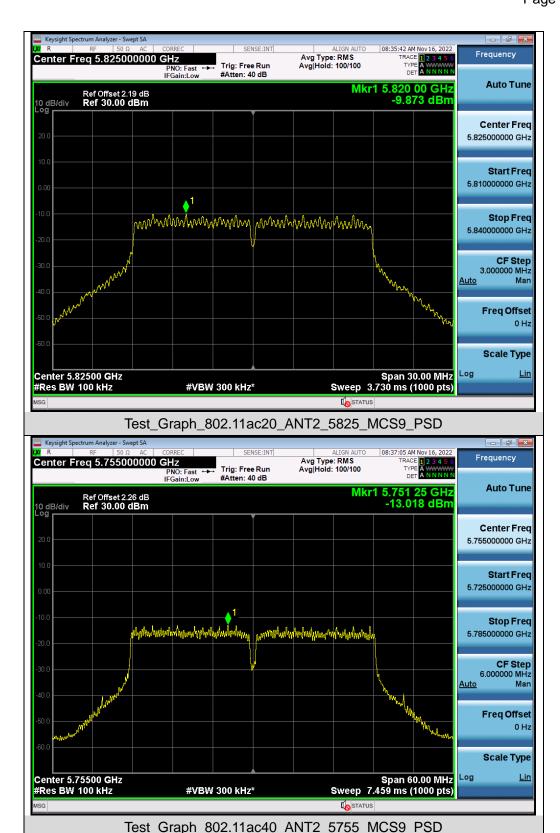


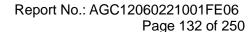


Test Graph 802.11ac20 ANT2 5785 MCS0 PSD

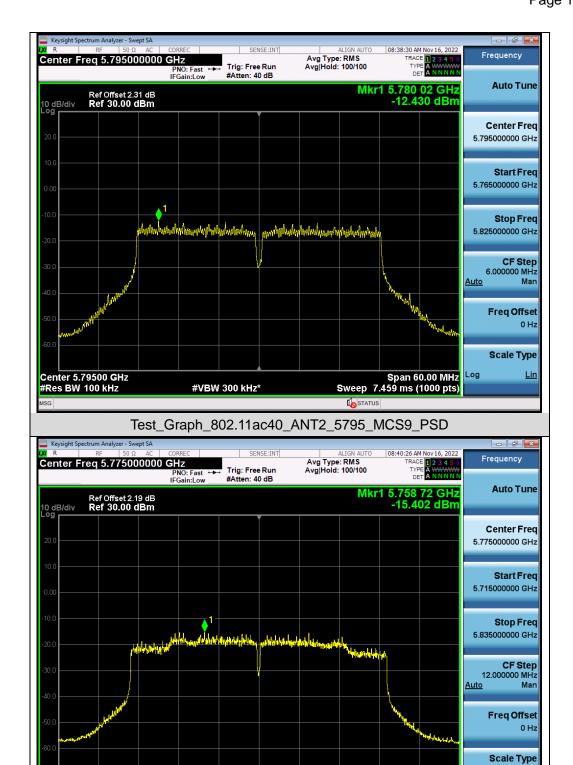










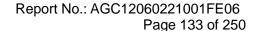


Test Graph 802.11ac80 ANT2 5775 MCS9 PSD

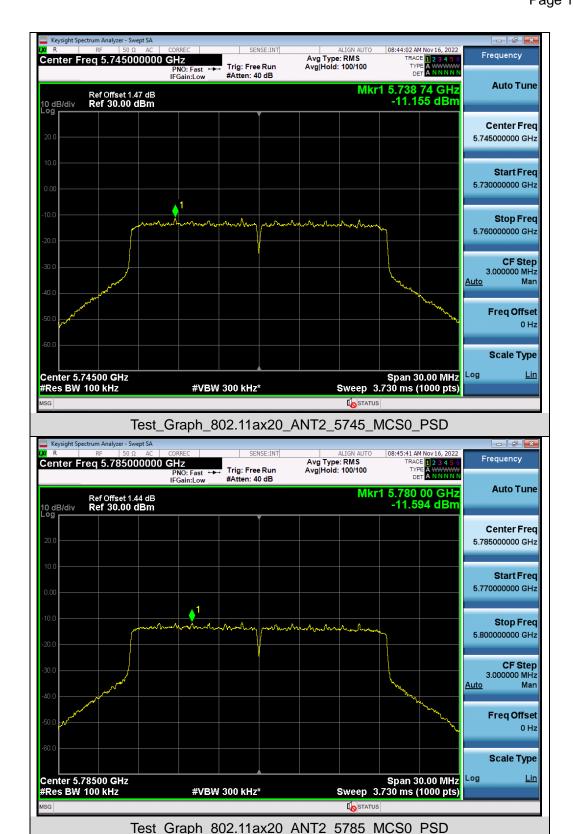
#VBW 300 kHz*

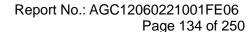
Span 120.0 MHz Sweep 14.85 ms (1000 pts)

Center 5.77500 GHz #Res BW 100 kHz

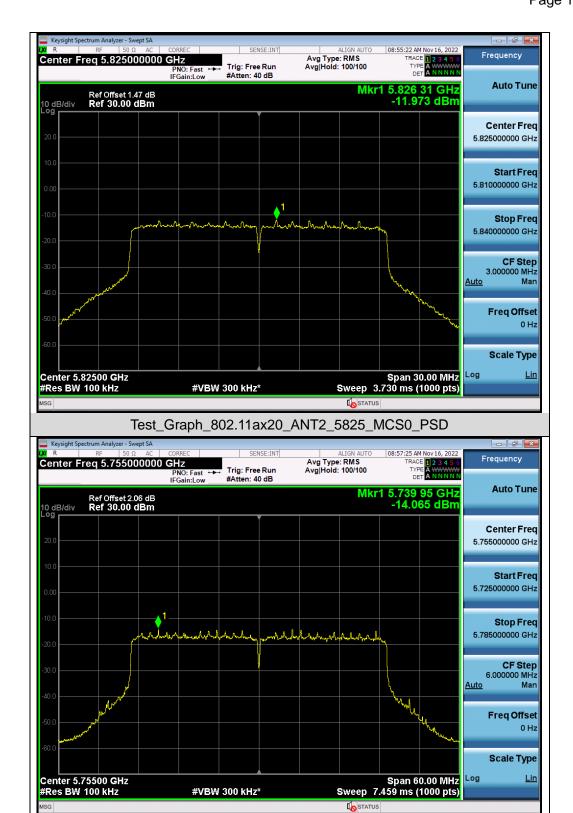




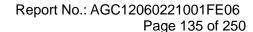




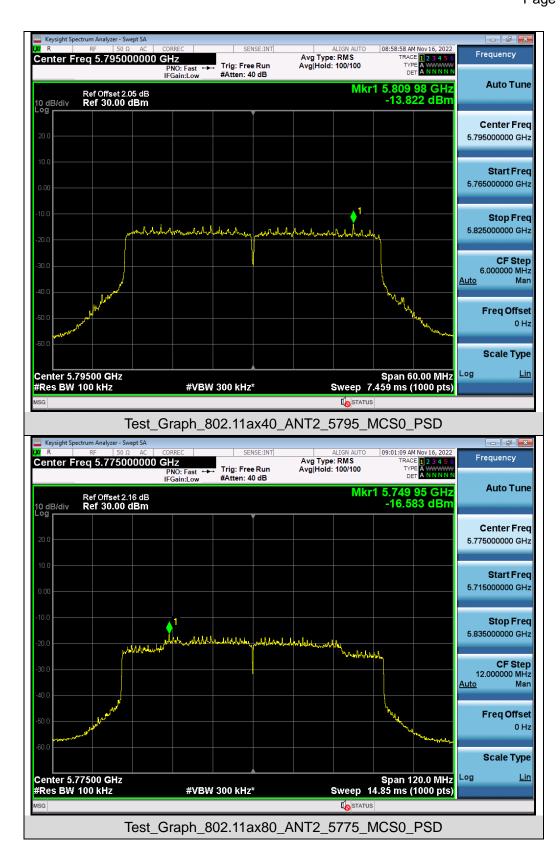




Test Graph 802.11ax40 ANT2 5755 MCS0 PSD









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9. CONDUCTED SPURIOUS EMISSION

9.1 MEASUREMENT LIMIT

Restricted bands	Applicable to	Limit	
	789033 D02 General UNII Test Procedures New Rules v02r01	Field strength at 3m (dBuV/m)	
		PK: 74	AV: 54
Out of the restricted bands	Applicable to	EIRP Limit (dBm/MHz)	Equivalent field Strength at 3m (dBuV/m)
	FCC 15.407(b)(1)	PK: -27	PK: 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See Note 2	

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

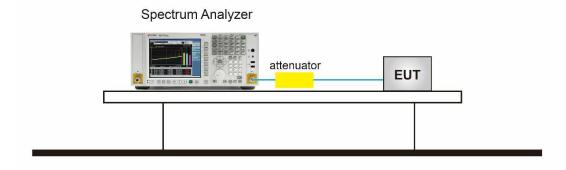
E =
$$\frac{1000000 \quad \sqrt{30 P}}{3}$$
 µV/m, where P is the eirp (Watts).

Note 2: 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.

9.2 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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
- 4. RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.(Test frequency below 1GHz)
- 5. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = peak.(Test frequency Above 1GHz)
- 6. Set SPA Trace 1 Max hold, then View.
- 7. Mark the maximum useless stray point and compare it with the limit value to record the result.

9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

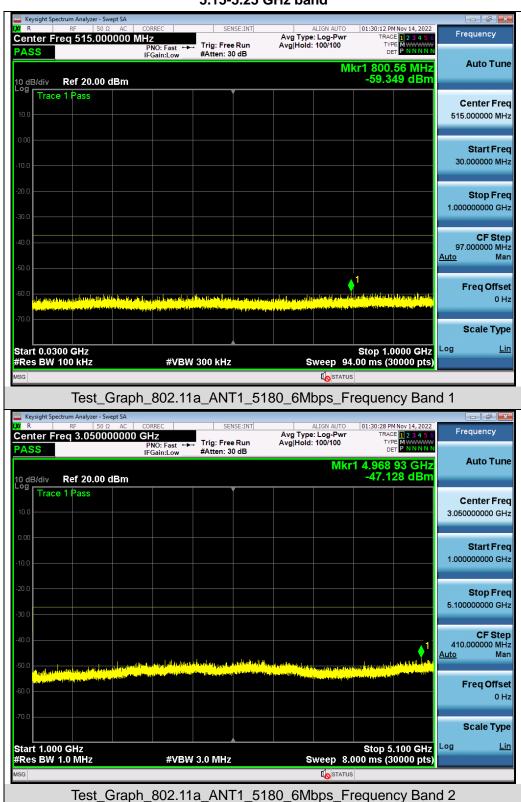


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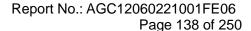


9.4 MEASUREMENT RESULTS

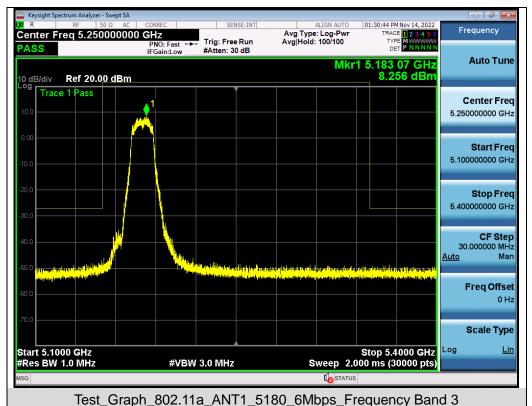
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



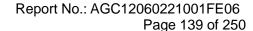
Any report having not been signed by authorized approver, or natural such cathering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted 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.



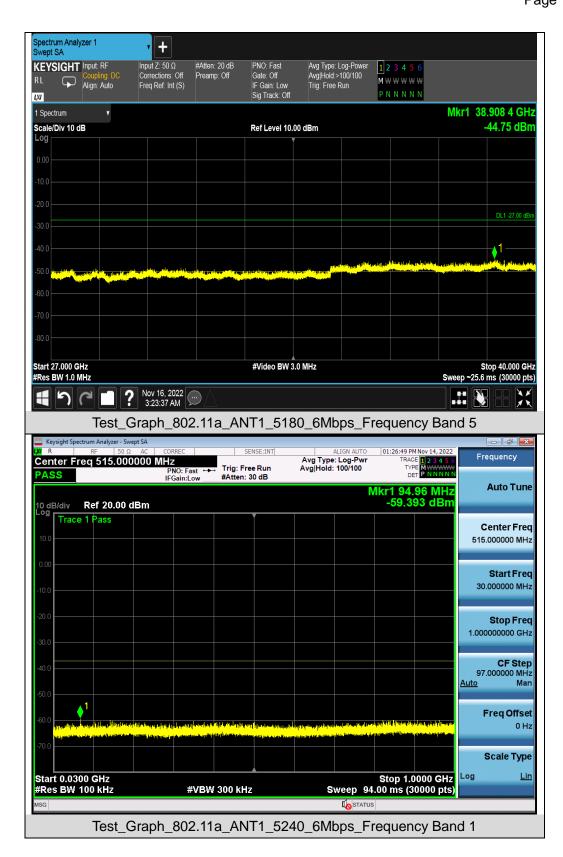


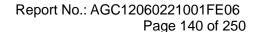












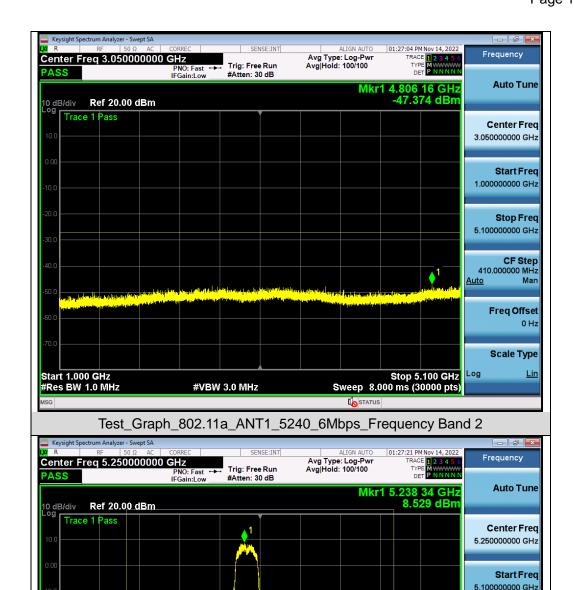
Stop Freq 5.400000000 GHz

> CF Step 30.000000 MHz

Man

<u>Auto</u>

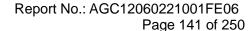




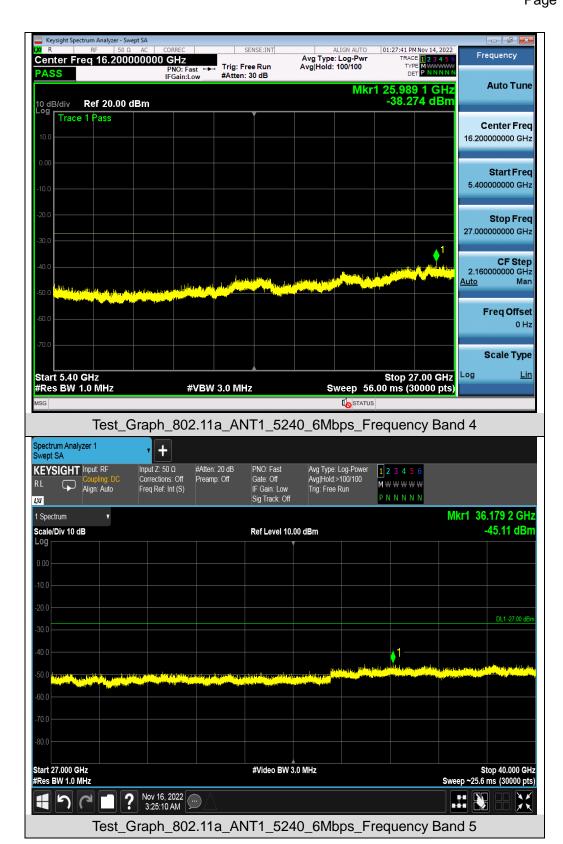
Start 5.1000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.000 ms (30000 pts)

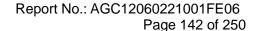
Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 3

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CF Step 410.000000 MHz

Freq Offset 0 Hz

Scale Type

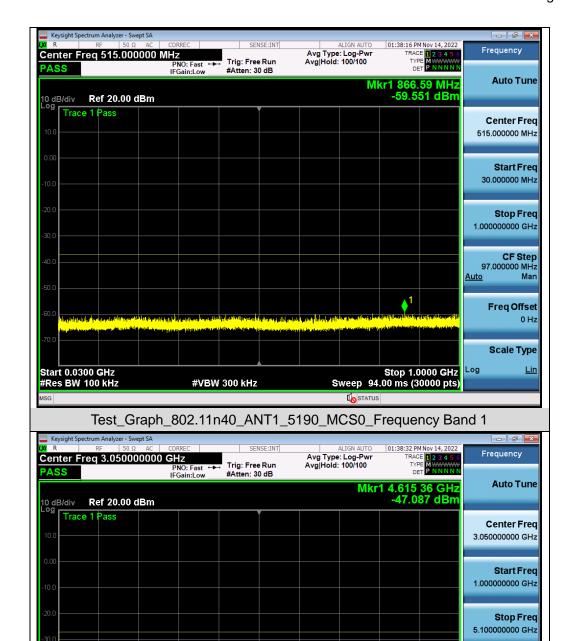
Man

<u>Auto</u>

Log

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)



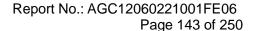


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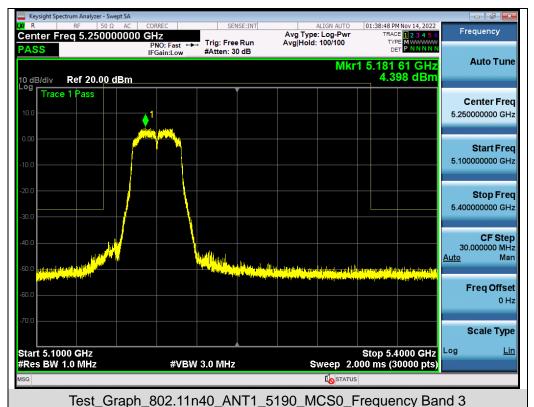
Test Graph 802.11n40 ANT1 5190 MCS0 Frequency Band 2

#VBW 3.0 MHz

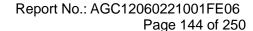
Start 1.000 GHz #Res BW 1.0 MHz



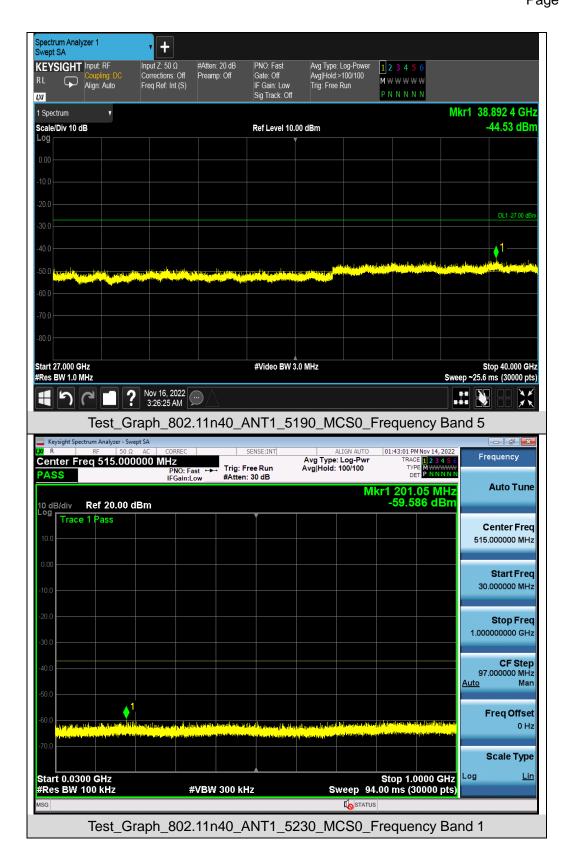


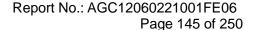












CF Step 30.000000 MHz

> Freq Offset 0 Hz

Scale Type

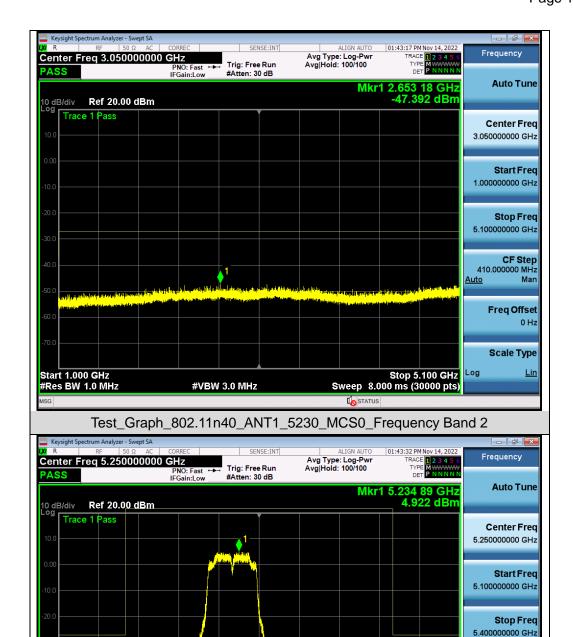
Man

<u>Auto</u>

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



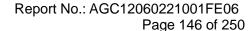


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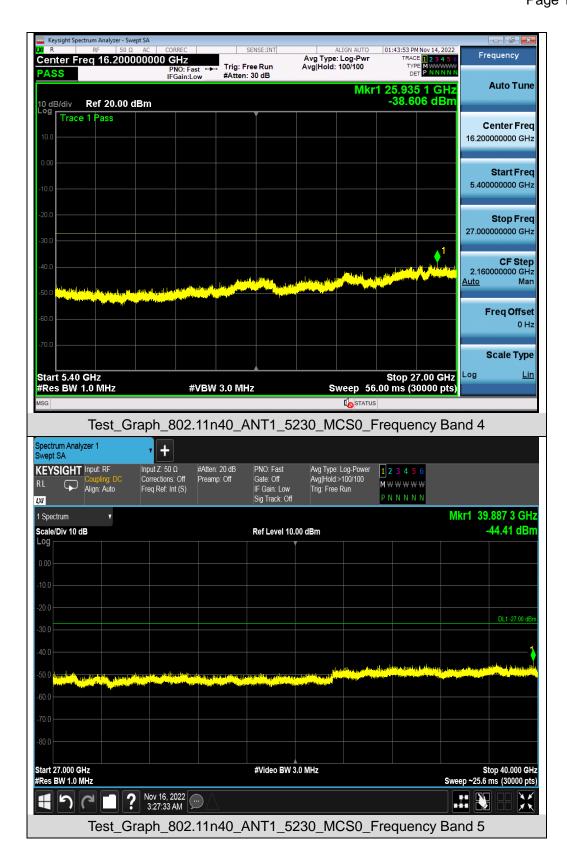
Test Graph 802.11n40 ANT1 5230 MCS0 Frequency Band 3

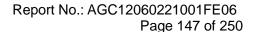
#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz

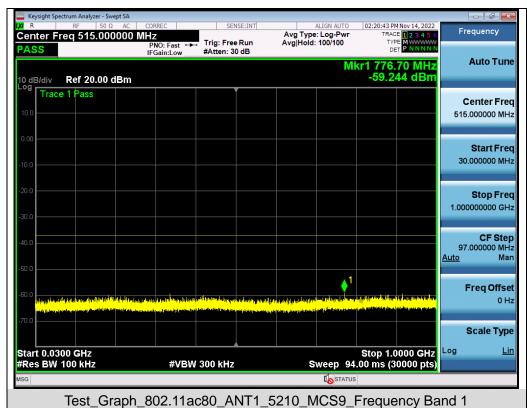




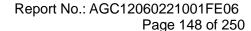




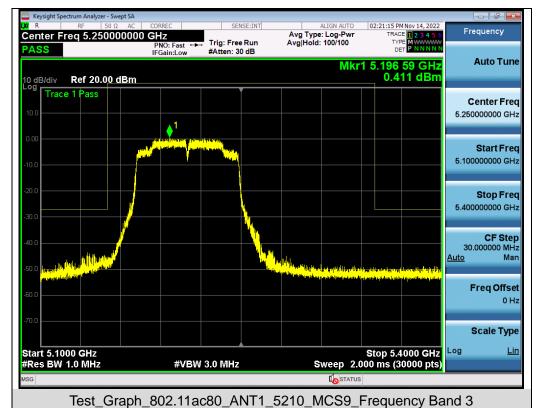




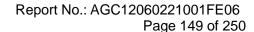




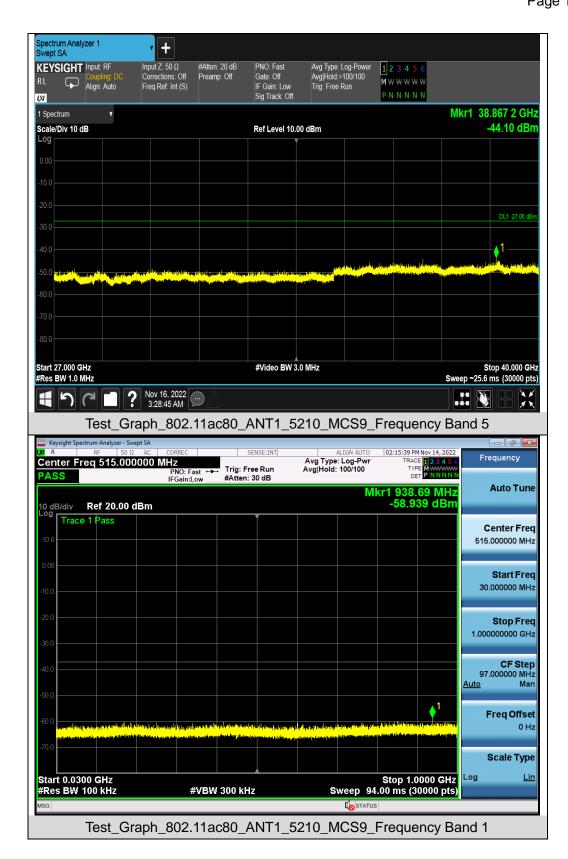


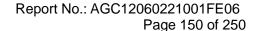




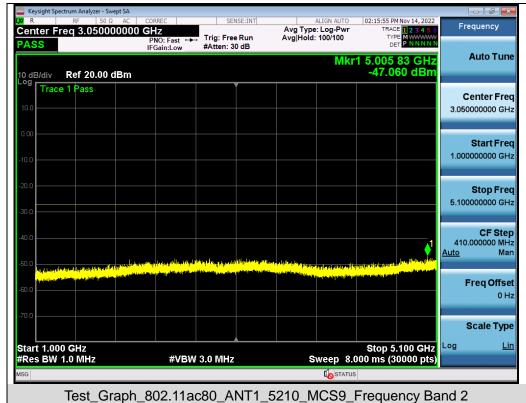


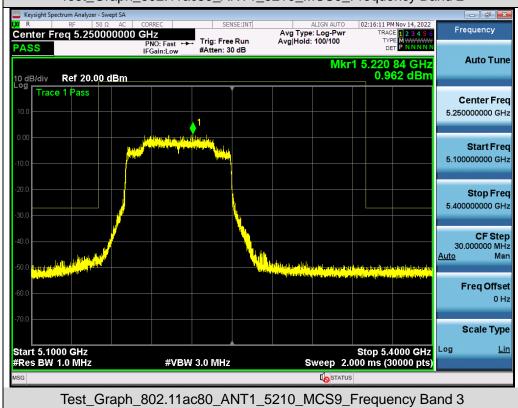


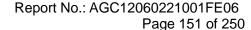




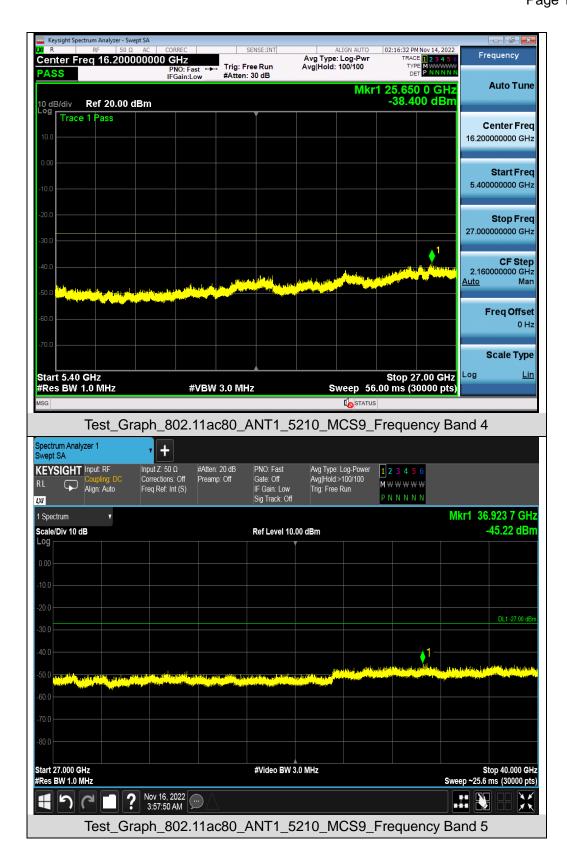


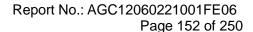












410.000000 MHz to Man

Freq Offset

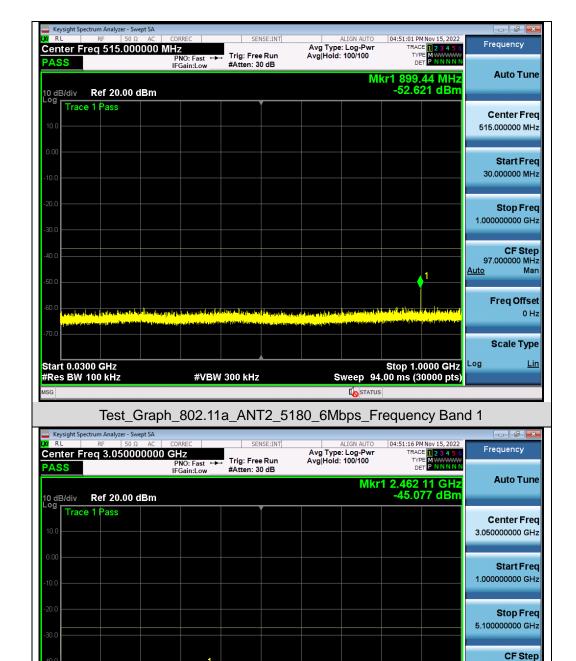
Scale Type

Auto

Log

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)



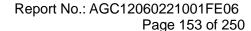


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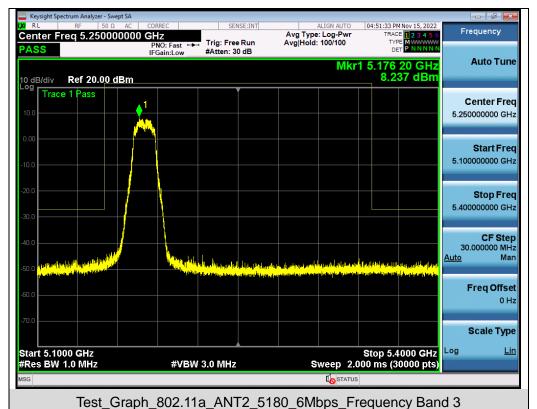
Test Graph 802.11a ANT2 5180 6Mbps Frequency Band 2

#VBW 3.0 MHz

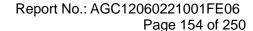
Start 1.000 GHz #Res BW 1.0 MHz



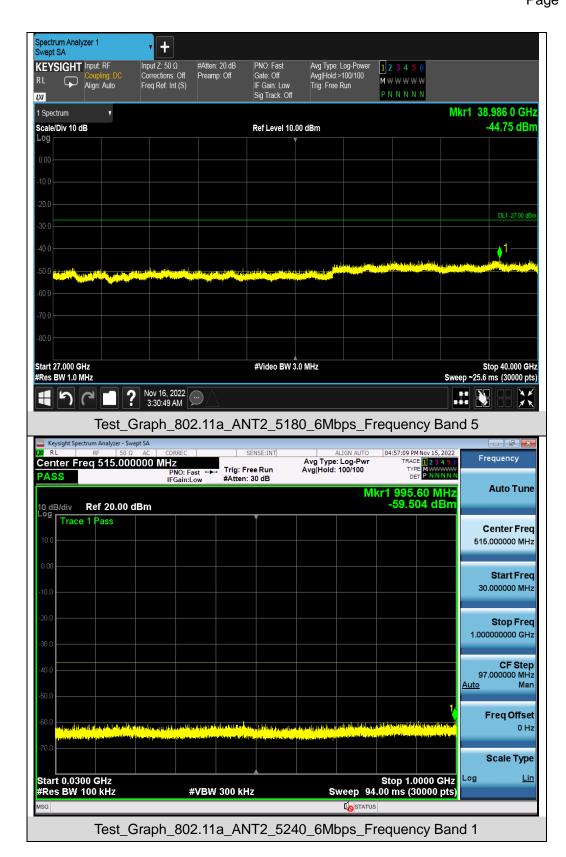


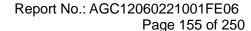




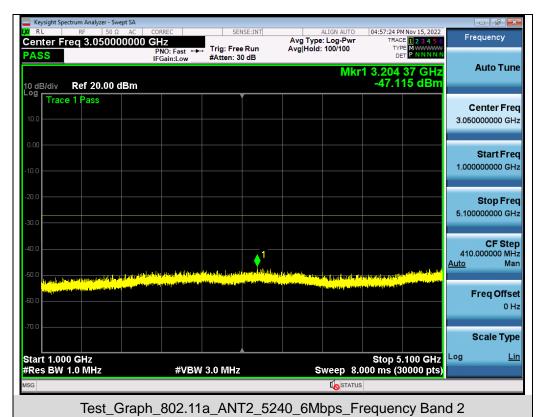


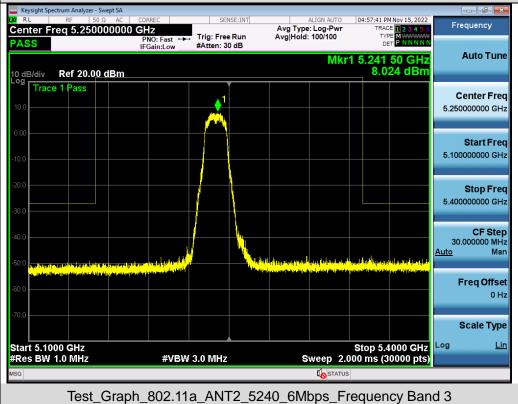


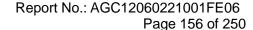




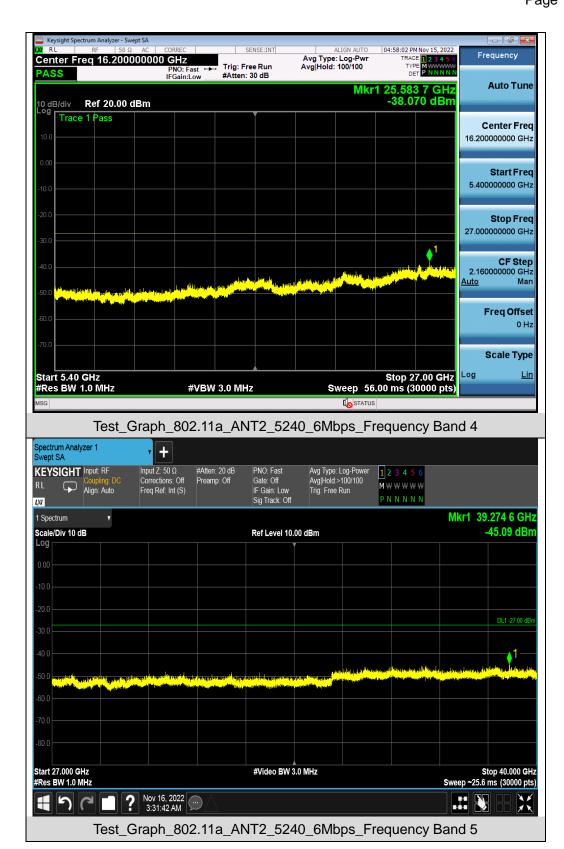


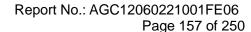












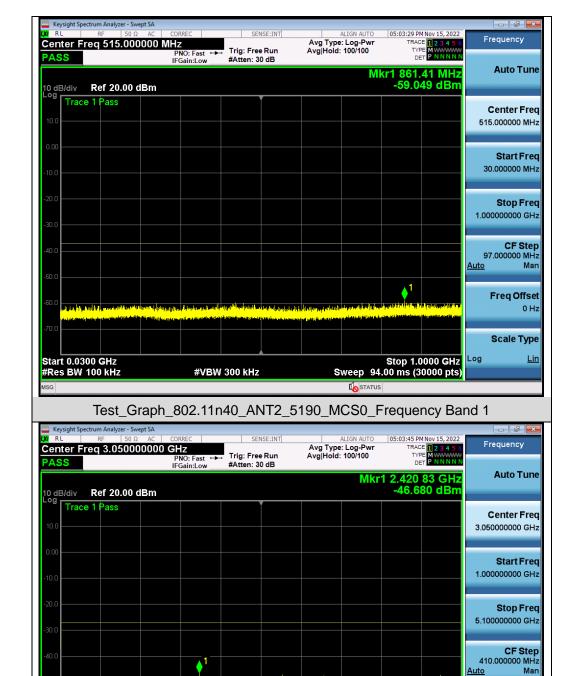
Freq Offset

Scale Type

Log

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)



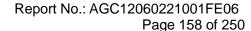


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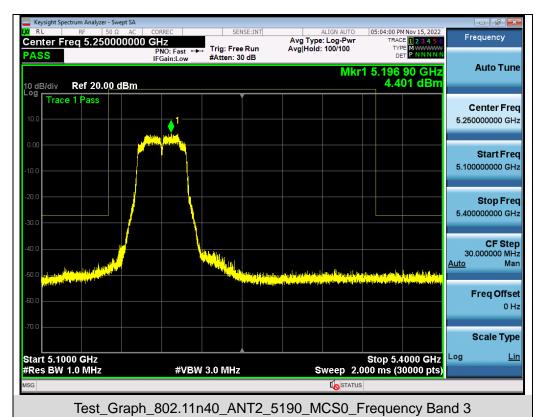
Test Graph 802.11n40 ANT2 5190 MCS0 Frequency Band 2

#VBW 3.0 MHz

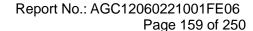
Start 1.000 GHz #Res BW 1.0 MHz



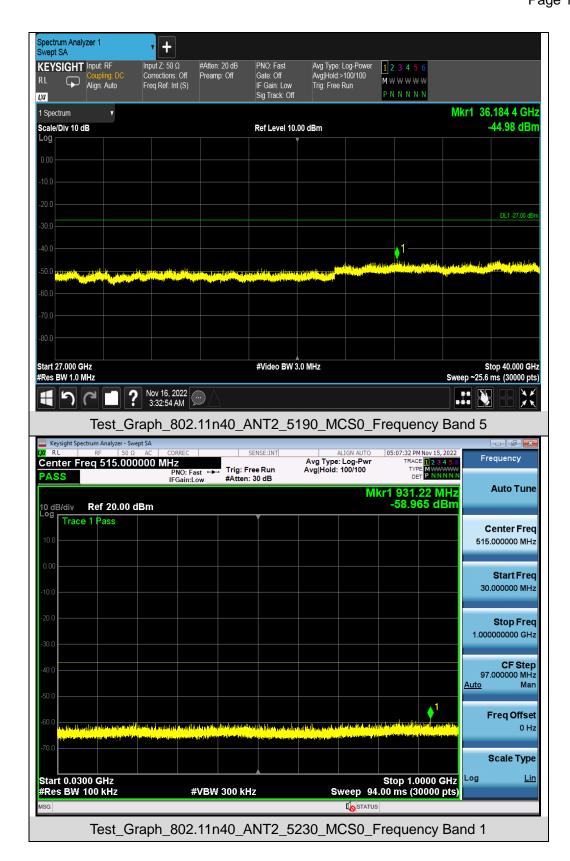


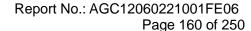










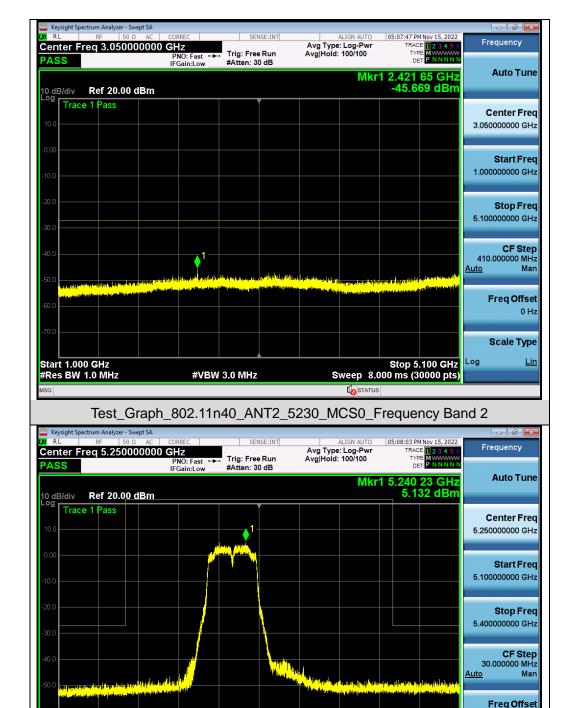


Scale Type

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)





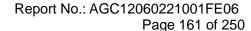
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Test Graph 802.11n40 ANT2 5230 MCS0 Frequency Band 3

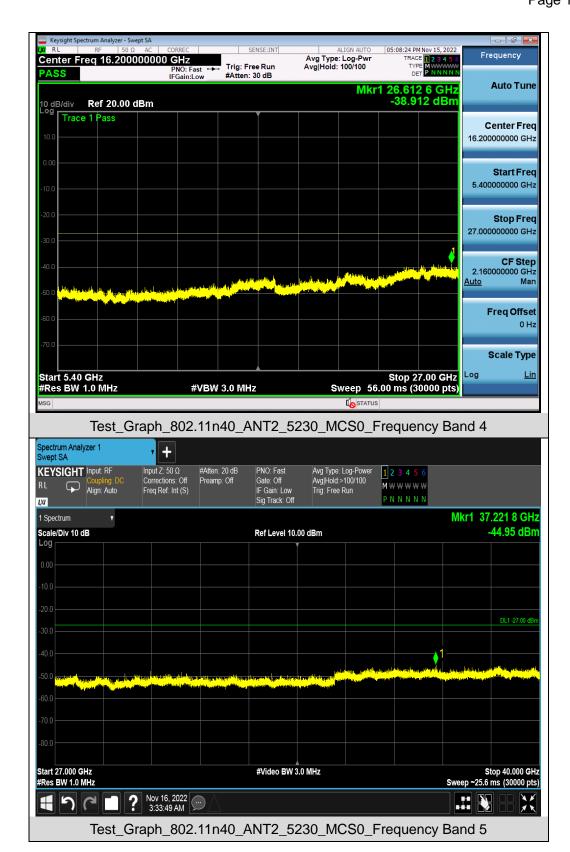
#VBW 3.0 MHz

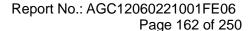
Start 5.1000 GHz

#Res BW 1.0 MHz





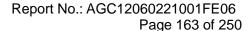




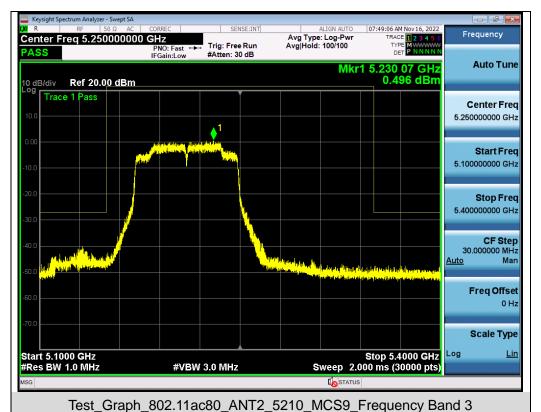




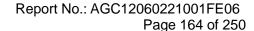




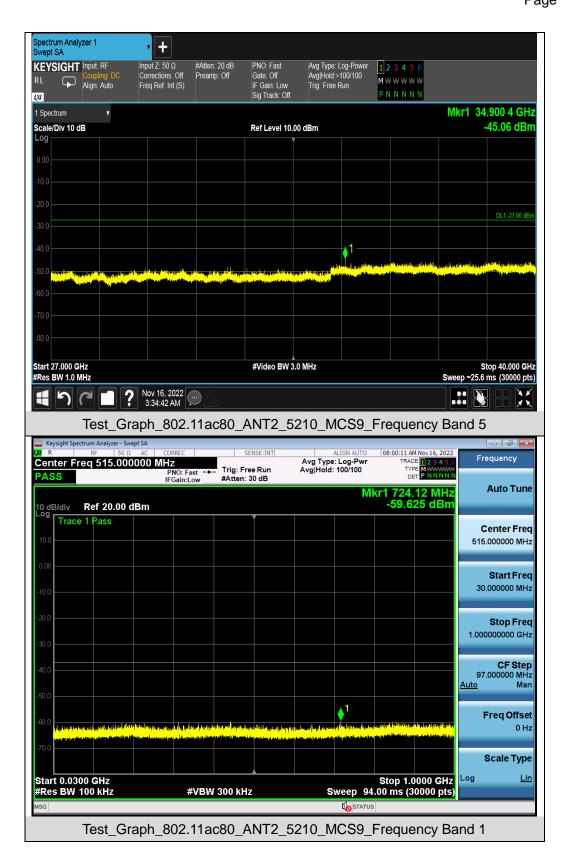


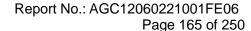












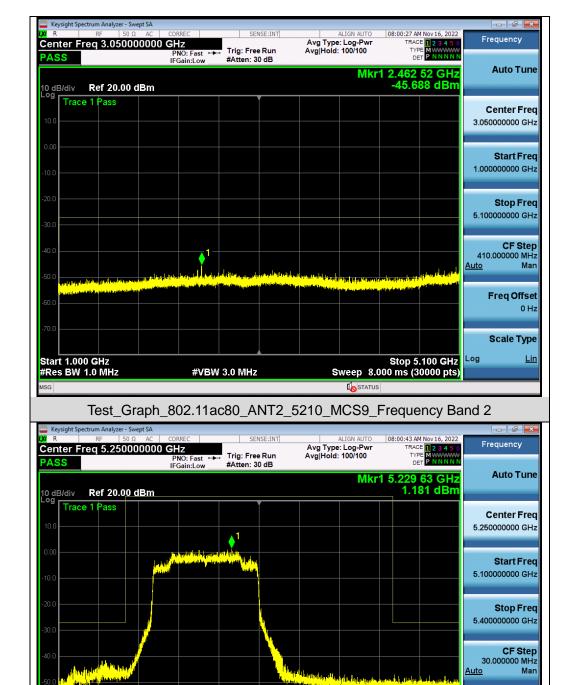
Freq Offset

Scale Type

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)





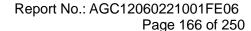
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Test_Graph_802.11ac80_ANT2_5210_MCS9_Frequency Band 3

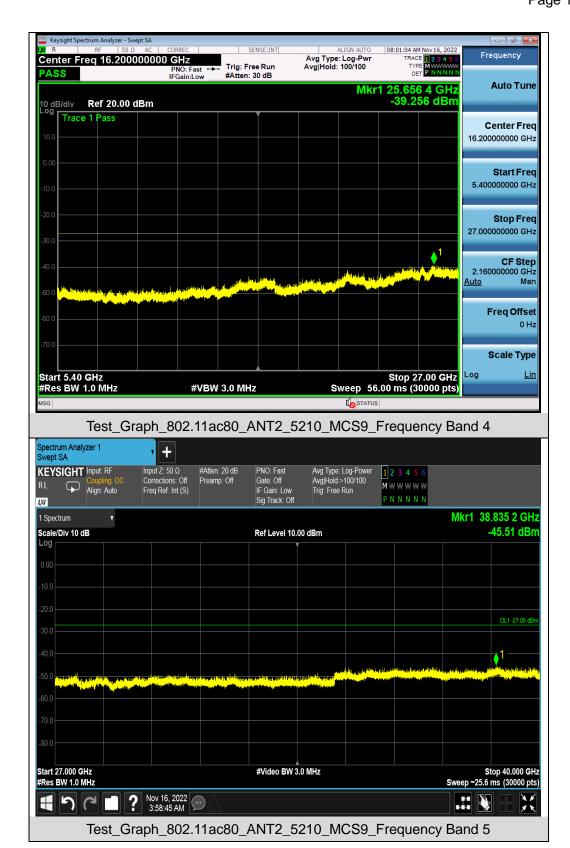
#VBW 3.0 MHz

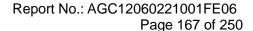
Start 5.1000 GHz

#Res BW 1.0 MHz



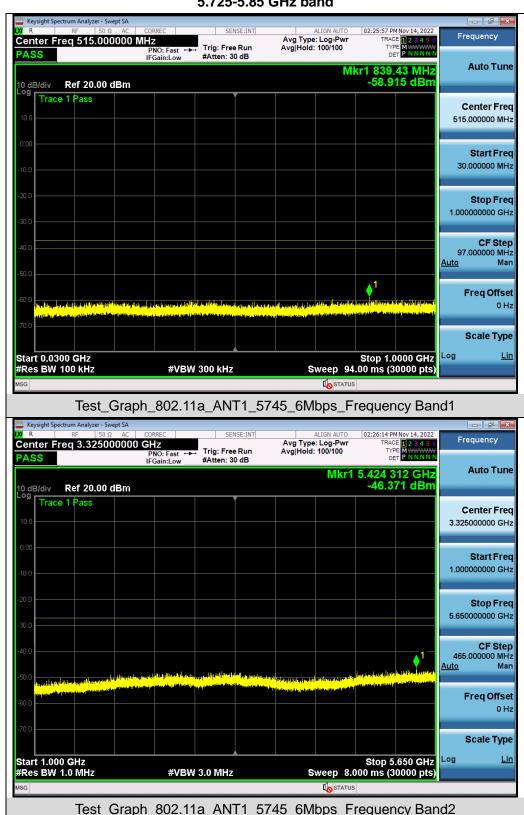




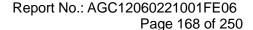




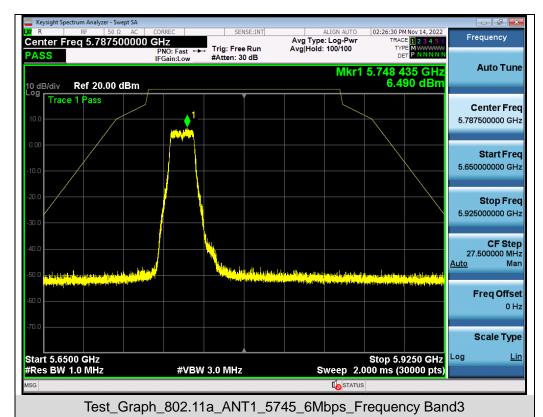
Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band



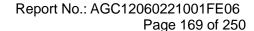
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the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



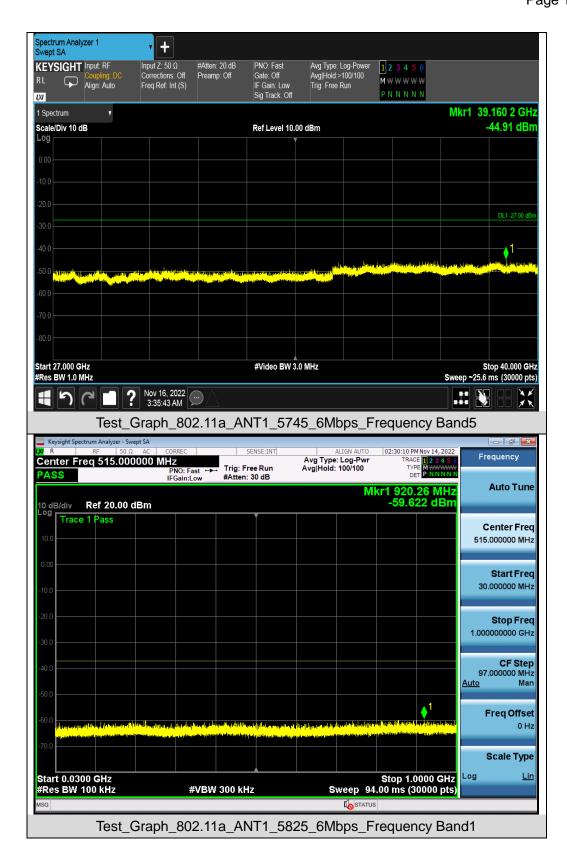


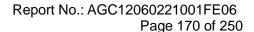




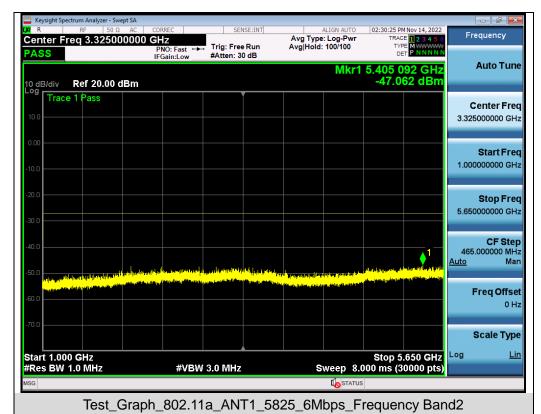


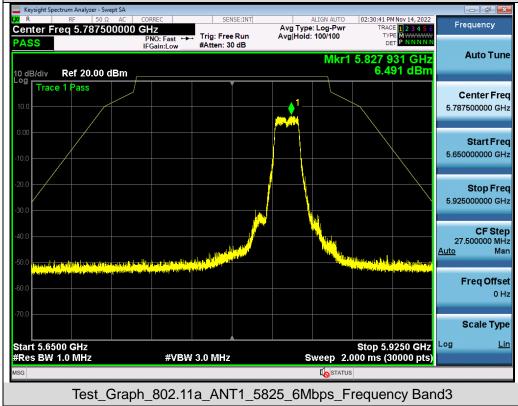


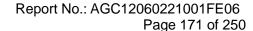




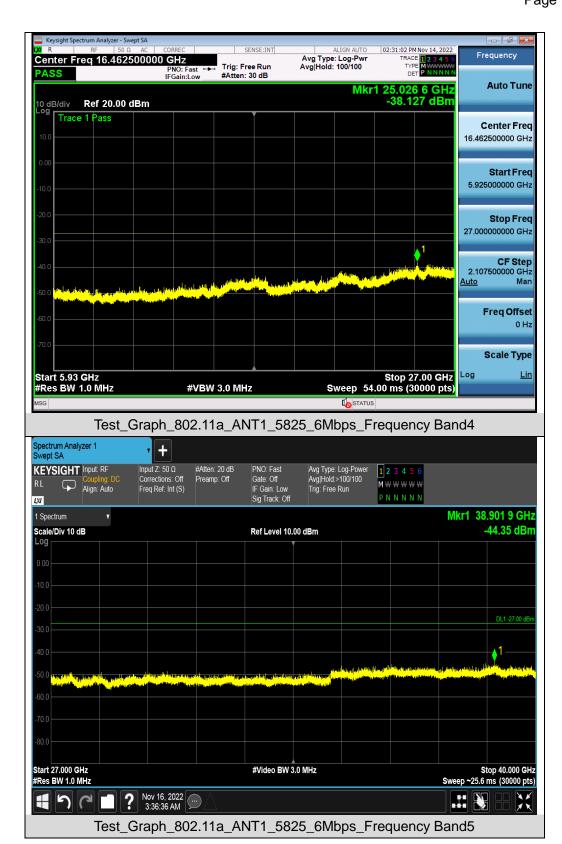


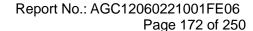












5.650000000 GHz

<u>Auto</u>

Log

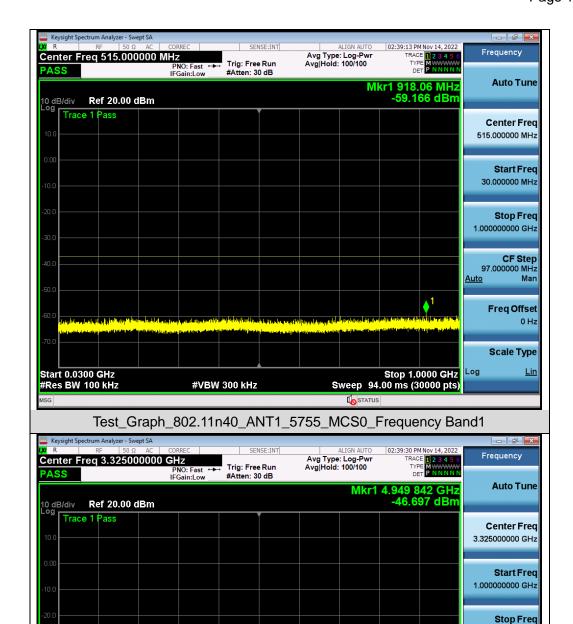
Stop 5.650 GHz Sweep 8.000 ms (30000 pts) CF Step 465.000000 MHz

> Freq Offset 0 Hz

Scale Type

Man





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Test Graph 802.11n40 ANT1 5755 MCS0 Frequency Band2

#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz





