





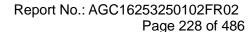
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Test Graph 802.11ac20 Chain B 5300 MCS0 PSD

#VBW 3.0 MHz\*

Span 30.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.30000 GHz #Res BW 1.0 MHz



Span 60.00 MHz Sweep 1.066 ms (1000 pts)



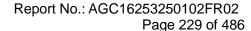


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Test Graph 802.11ac40 Chain B 5270 MCS0 PSD

#VBW 3.0 MHz\*

Center 5.27000 GHz #Res BW 1.0 MHz



0 Hz





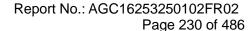
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Test Graph 802.11ac80 Chain B 5290 MCS0 PSD

#VBW 3.0 MHz\*

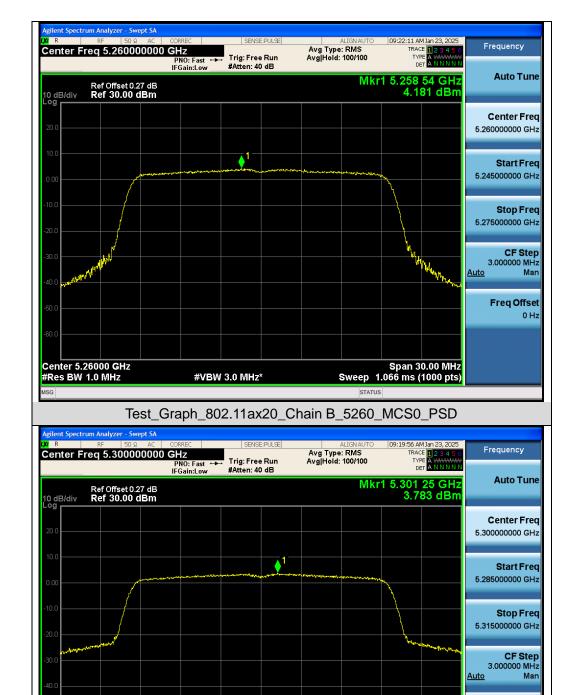
Span 120.0 MHz Sweep 1.066 ms (1000 pts)

Center 5.29000 GHz #Res BW 1.0 MHz



Span 30.00 MHz Sweep 1.066 ms (1000 pts)



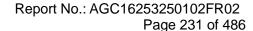


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Test Graph 802.11ax20 Chain B 5300 MCS0 PSD

#VBW 3.0 MHz\*

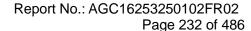
Center 5.30000 GHz #Res BW 1.0 MHz











0 Hz





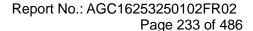
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Test Graph 802.11ax80 Chain B 5290 MCS0 PSD

#VBW 3.0 MHz\*

Span 120.0 MHz Sweep 1.066 ms (1000 pts)

Center 5.29000 GHz #Res BW 1.0 MHz

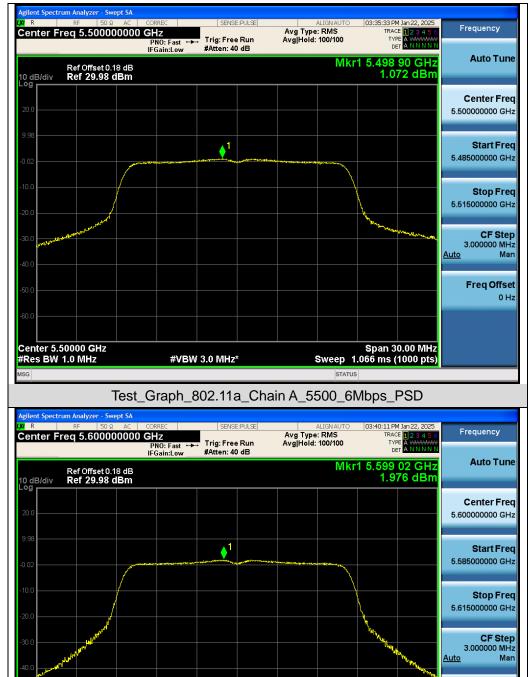


Freq Offset

Span 30.00 MHz Sweep 1.066 ms (1000 pts)



## Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

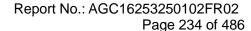


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Test\_Graph\_802.11a\_Chain A\_5600\_6Mbps\_PSD

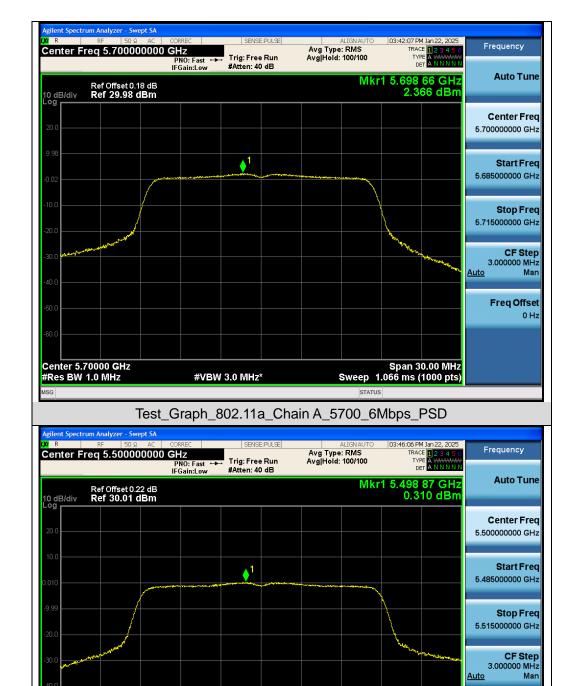
#VBW 3.0 MHz\*

Center 5.60000 GHz #Res BW 1.0 MHz



Span 30.00 MHz Sweep 1.066 ms (1000 pts)



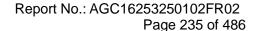


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Test Graph 802.11n20 Chain A 5500 MCS0 PSD

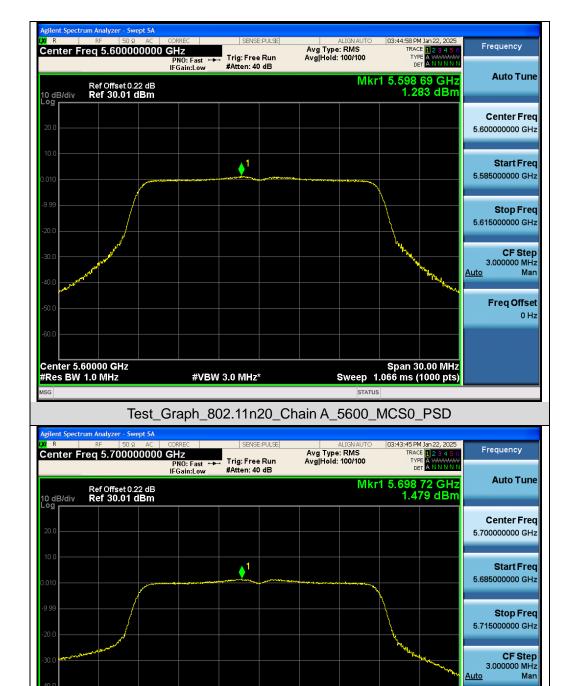
#VBW 3.0 MHz\*

Center 5.50000 GHz #Res BW 1.0 MHz



Span 30.00 MHz Sweep 1.066 ms (1000 pts)



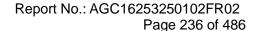


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Test Graph 802.11n20 Chain A 5700 MCS0 PSD

#VBW 3.0 MHz\*

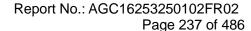
Center 5.70000 GHz #Res BW 1.0 MHz







Test Graph 802.11n40 Chain A 5590 MCS0 PSD



CF Step 3.000000 MHz

Freq Offset 0 Hz

Man

Auto



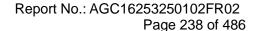


Center 5.50000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz\* Sweep 1.066 ms (1000 pts)

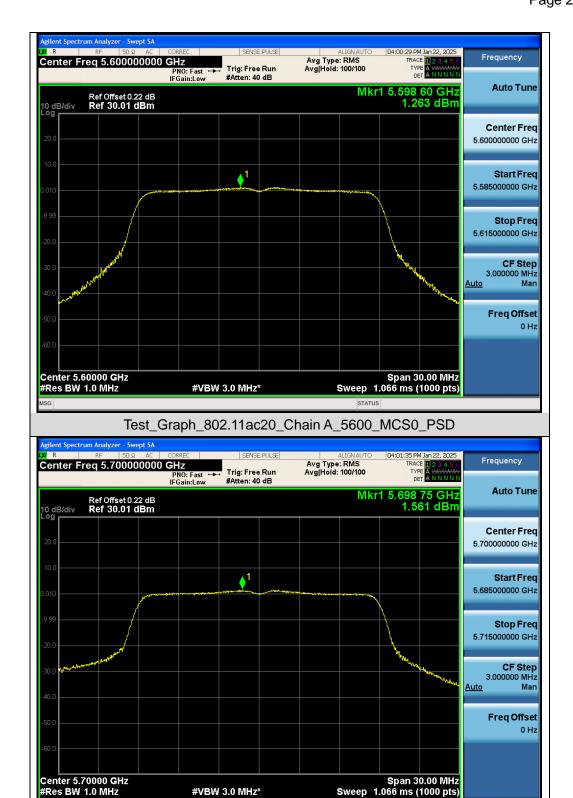
Span 30.00 MHz

#WBW 3.0 MHz\* Sweep 1.066 ms (1000 pts)

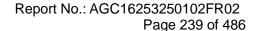
Test\_Graph\_802.11ac20\_Chain A\_5500\_MCS0\_PSD





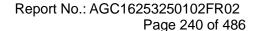


Test Graph 802.11ac20 Chain A 5700 MCS0 PSD











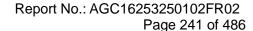


Test Graph 802.11ac80 Chain A 5530 MCS0 PSD

#VBW 3.0 MHz\*

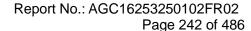
Span 120.0 MHz Sweep 1.066 ms (1000 pts)

Center 5.53000 GHz #Res BW 1.0 MHz



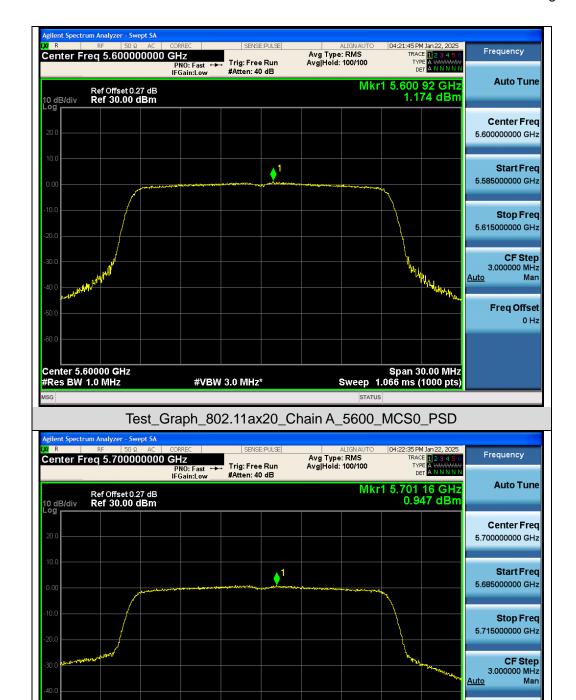






Span 30.00 MHz Sweep 1.066 ms (1000 pts)



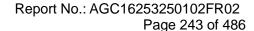


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Test Graph 802.11ax20 Chain A 5700 MCS0 PSD

#VBW 3.0 MHz\*

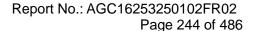
Center 5.70000 GHz #Res BW 1.0 MHz





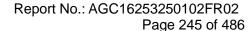


Test Graph 802.11ax40 Chain A 5590 MCS0 PSD









0 Hz





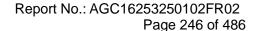
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Test Graph 802.11a Chain B 5500 6Mbps PSD

#VBW 3.0 MHz\*

Span 30.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.50000 GHz #Res BW 1.0 MHz



0 Hz





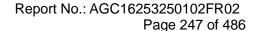
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Test Graph 802.11a Chain B 5700 6Mbps PSD

#VBW 3.0 MHz\*

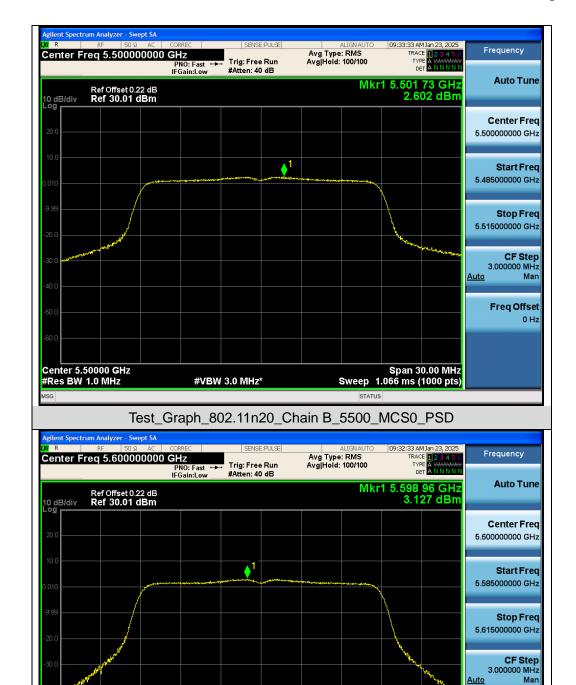
Span 30.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.70000 GHz #Res BW 1.0 MHz



Span 30.00 MHz Sweep 1.066 ms (1000 pts)



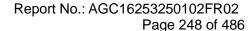


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Test Graph 802.11n20 Chain B 5600 MCS0 PSD

#VBW 3.0 MHz\*

Center 5.60000 GHz #Res BW 1.0 MHz





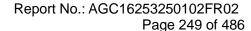


Test Graph 802.11n40 Chain B 5510 MCS0 PSD

#VBW 3.0 MHz\*

Span 60.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.51000 GHz #Res BW 1.0 MHz



0 Hz





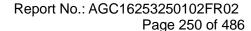
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Test Graph 802.11n40 Chain B 5670 MCS0 PSD

#VBW 3.0 MHz\*

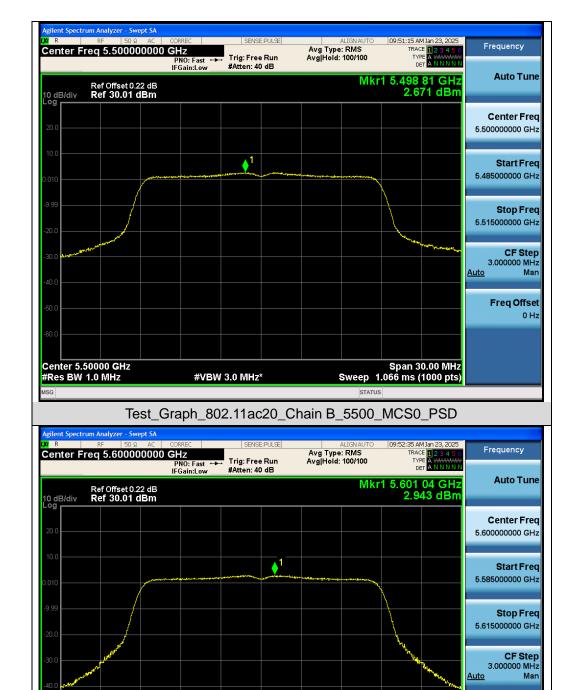
Span 60.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.67000 GHz #Res BW 1.0 MHz



Span 30.00 MHz Sweep 1.066 ms (1000 pts)



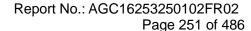


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Test Graph 802.11ac20 Chain B 5600 MCS0 PSD

#VBW 3.0 MHz\*

Center 5.60000 GHz #Res BW 1.0 MHz



Span 60.00 MHz Sweep 1.066 ms (1000 pts)



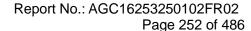


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Test Graph 802.11ac40 Chain B 5510 MCS0 PSD

#VBW 3.0 MHz\*

Center 5.51000 GHz #Res BW 1.0 MHz







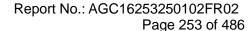
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Test Graph 802.11ac40 Chain B 5670 MCS0 PSD

#VBW 3.0 MHz\*

Span 60.00 MHz Sweep 1.066 ms (1000 pts)

Center 5.67000 GHz #Res BW 1.0 MHz





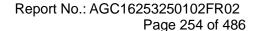


Test Graph 802.11ac80 Chain B 5610 MCS0 PSD

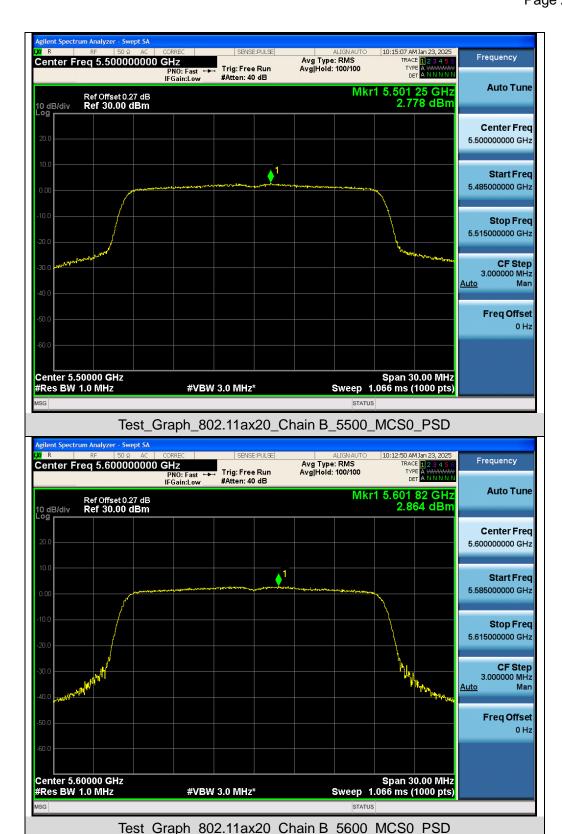
#VBW 3.0 MHz\*

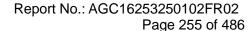
Span 120.0 MHz Sweep 1.066 ms (1000 pts)

Center 5.61000 GHz #Res BW 1.0 MHz











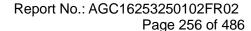


Test Graph 802.11ax40 Chain B 5510 MCS0 PSD

#VBW 3.0 MHz\*

Span 60.00 MHz Sweep 1.066 ms (1000 pts)

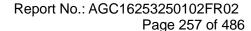
Center 5.51000 GHz #Res BW 1.0 MHz







Test Graph 802.11ax40 Chain B 5670 MCS0 PSD

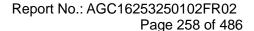






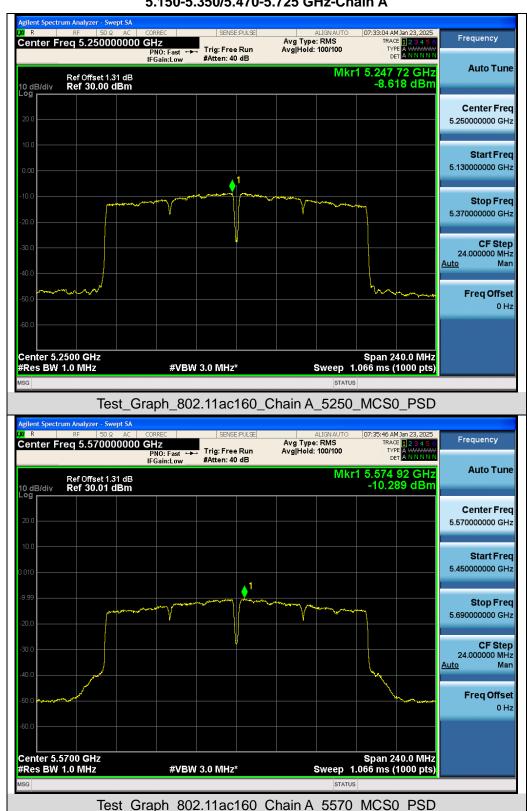
Test Graph 802.11ax80 Chain B 5610 MCS0 PSD

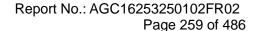
#VBW 3.0 MHz\*





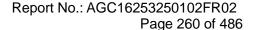
## Test Graphs of Conducted Output Power Spectral Density for band 5.150-5.350/5.470-5.725 GHz-Chain A



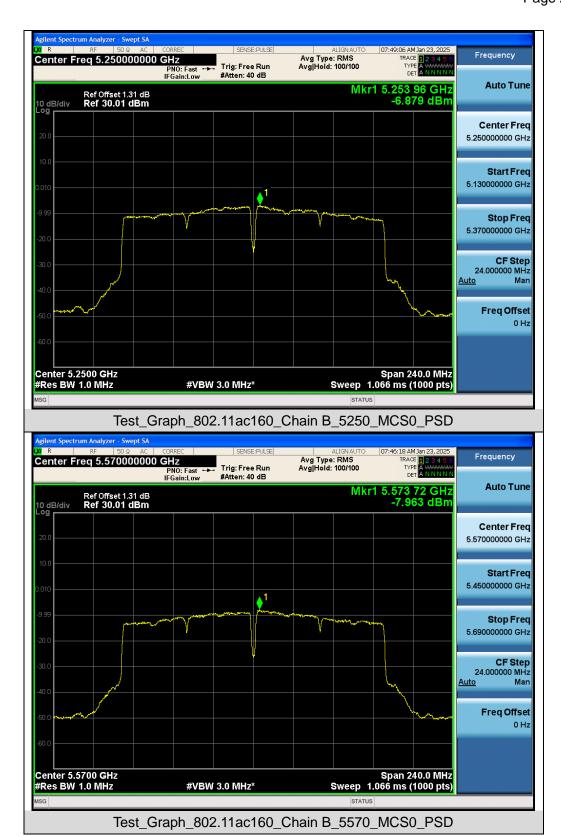


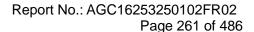




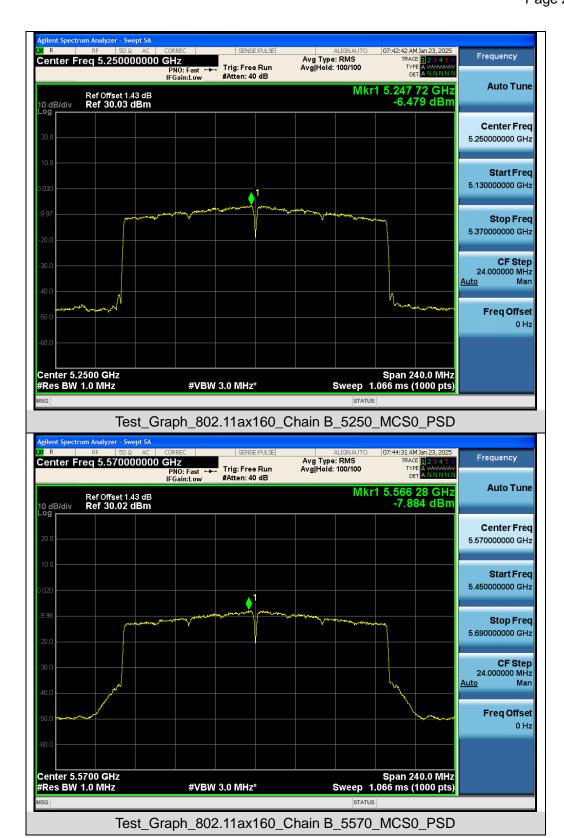


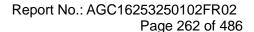






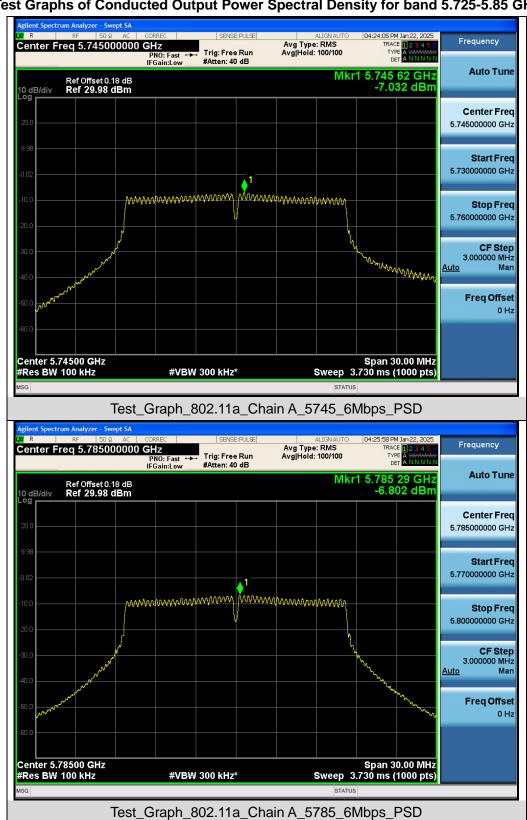


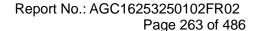






## Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz

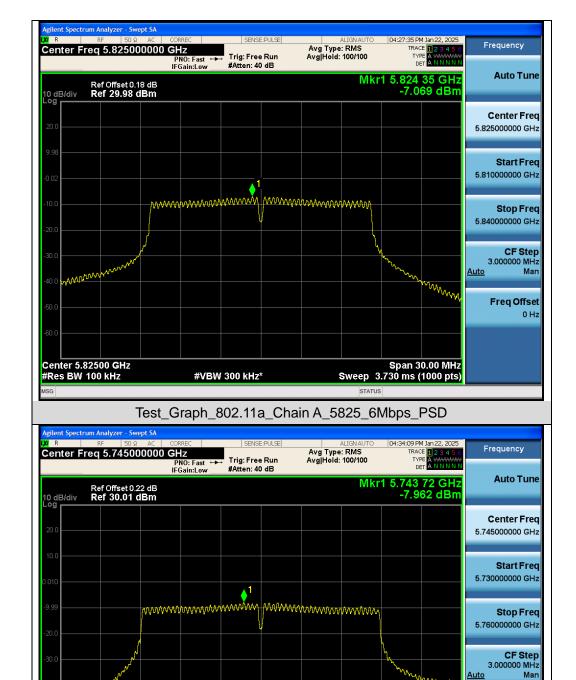




Freq Offset 0 Hz

Span 30.00 MHz Sweep 3.730 ms (1000 pts)

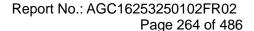




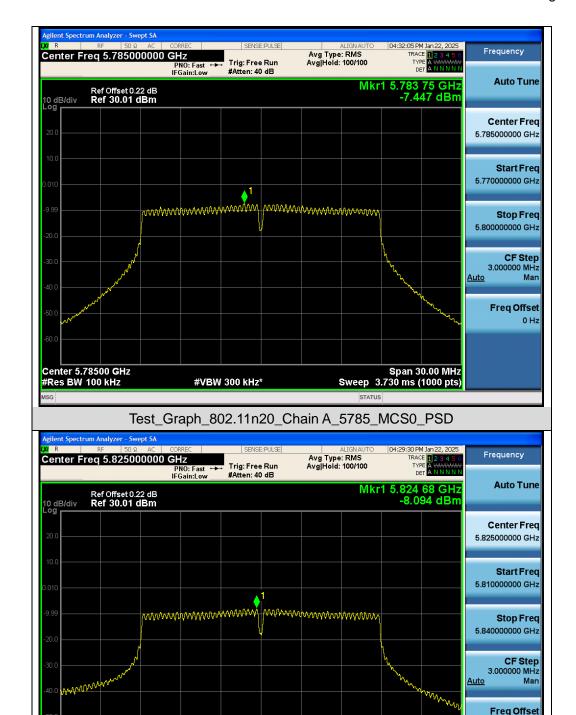
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Test Graph 802.11n20 Chain A 5745 MCS0 PSD

**#VBW 300 kHz\*** 





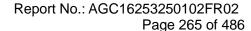


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Test Graph 802.11n20 Chain A 5825 MCS0 PSD

**#VBW 300 kHz\*** 

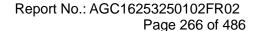
Span 30.00 MHz Sweep 3.730 ms (1000 pts)







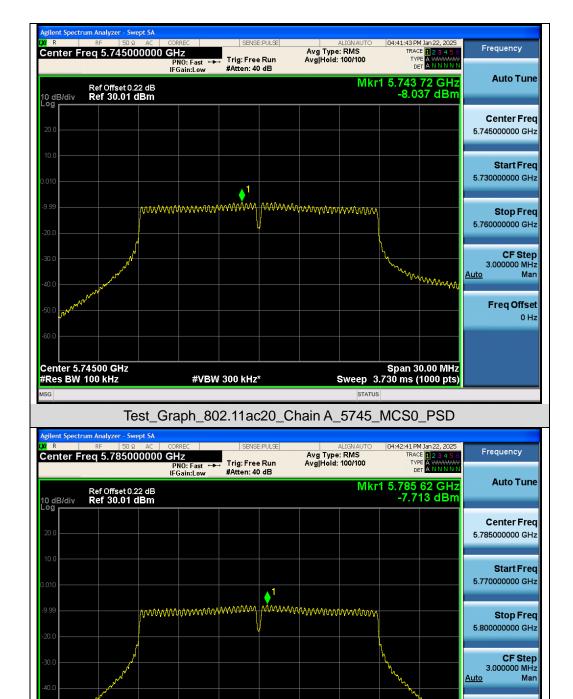




Freq Offset 0 Hz

Span 30.00 MHz Sweep 3.730 ms (1000 pts)

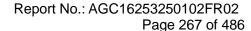




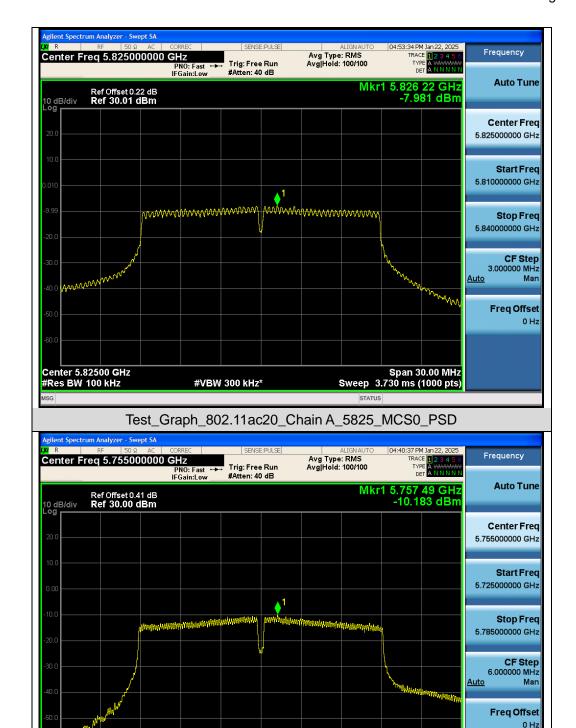
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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 802.11ac20 Chain A 5785 MCS0 PSD

**#VBW 300 kHz\*** 





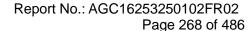


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Test Graph 802.11ac40 Chain A 5755 MCS0 PSD

**#VBW 300 kHz\*** 

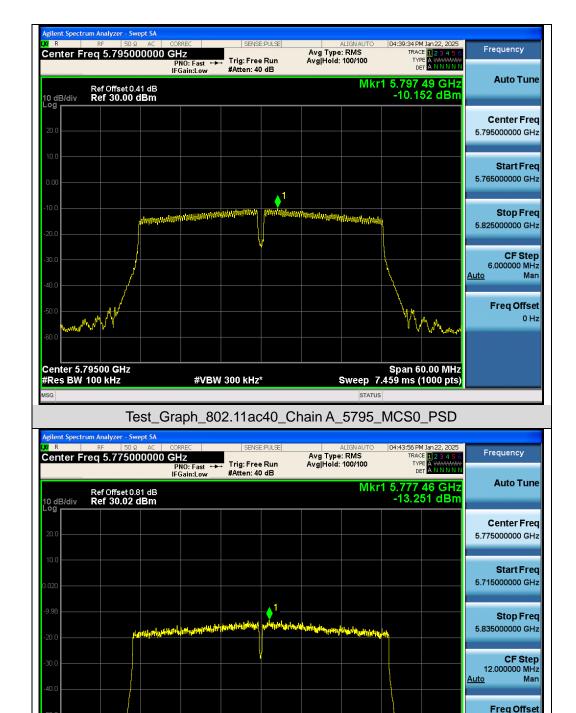
Span 60.00 MHz Sweep 7.459 ms (1000 pts)



M

Span 120.0 MHz Sweep 14.85 ms (1000 pts)

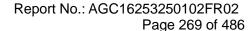




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Test Graph 802.11ac80 Chain A 5775 MCS0 PSD

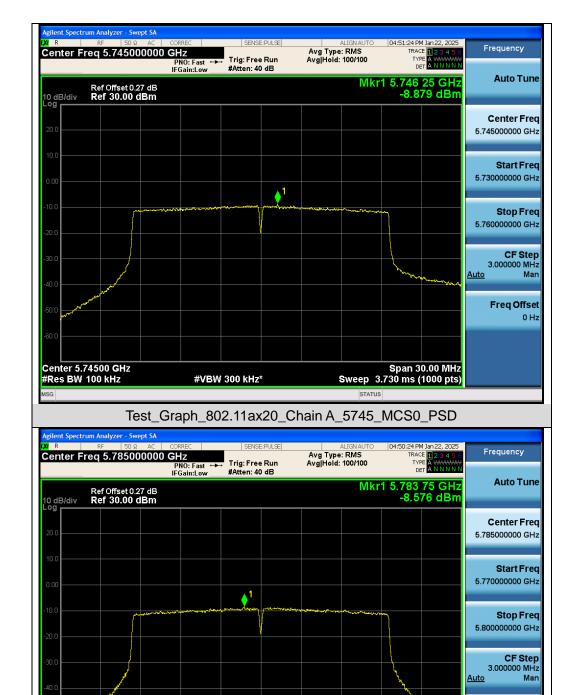
**#VBW 300 kHz\*** 



Freq Offset 0 Hz

Span 30.00 MHz Sweep 3.730 ms (1000 pts)

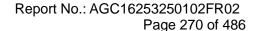




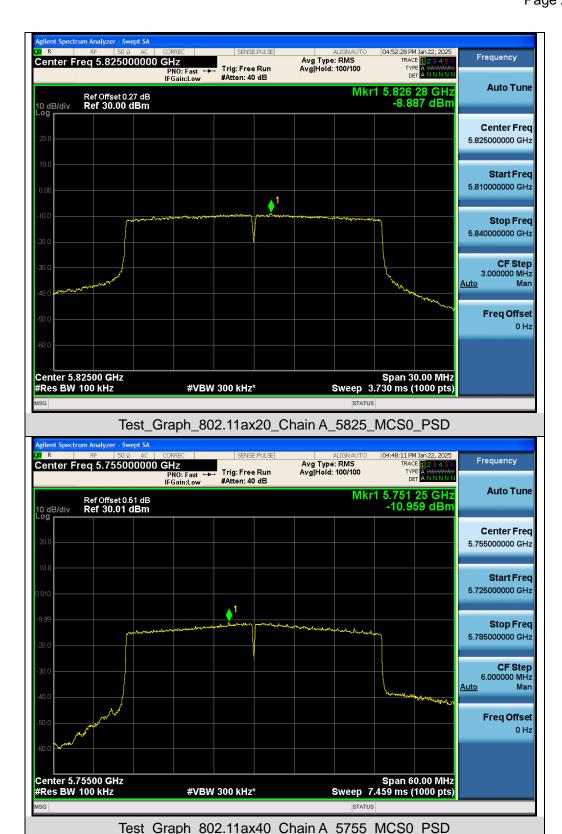
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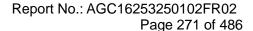
Test Graph 802.11ax20 Chain A 5785 MCS0 PSD

**#VBW 300 kHz\*** 



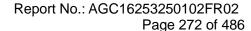












Stop Freq 5.800000000 GHz

> CF Step 3.000000 MHz

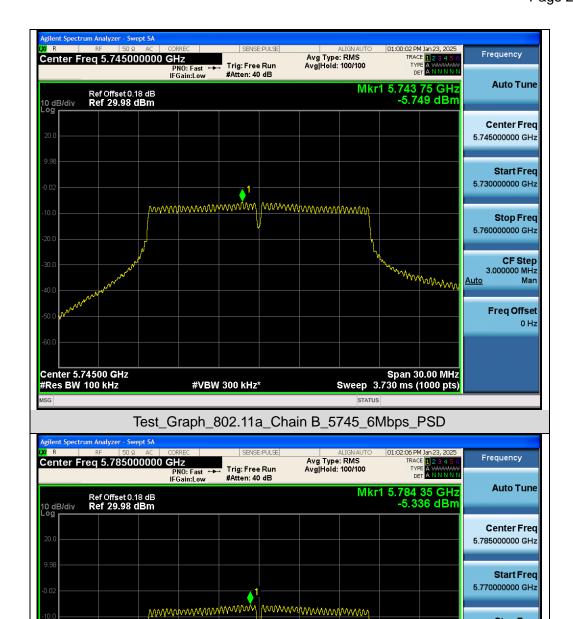
Freq Offset 0 Hz

Man

<u>Auto</u>

Span 30.00 MHz Sweep 3.730 ms (1000 pts)





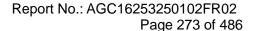
Test\_Graph\_802.11a\_Chain B\_5785\_6Mbps\_PSD

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

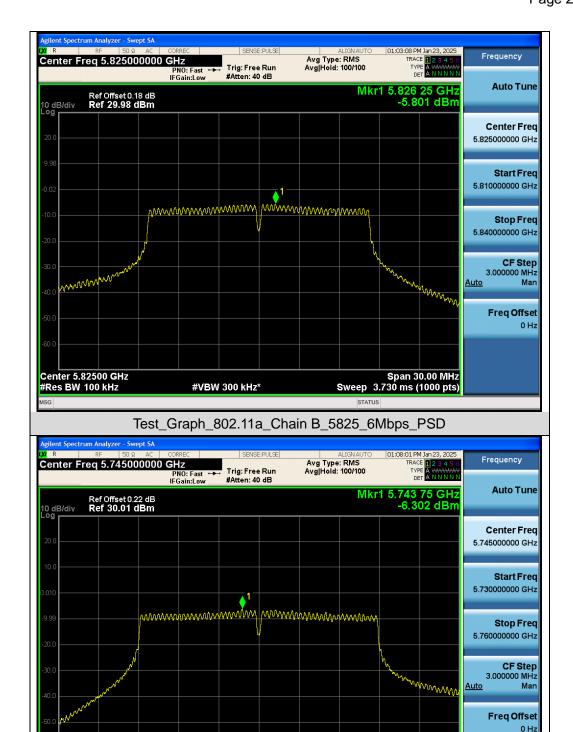
**#VBW 300 kHz\*** 

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.

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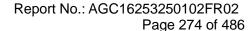


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Test Graph 802.11n20 Chain B 5745 MCS0 PSD

**#VBW 300 kHz\*** 

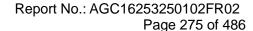
Span 30.00 MHz Sweep 3.730 ms (1000 pts)







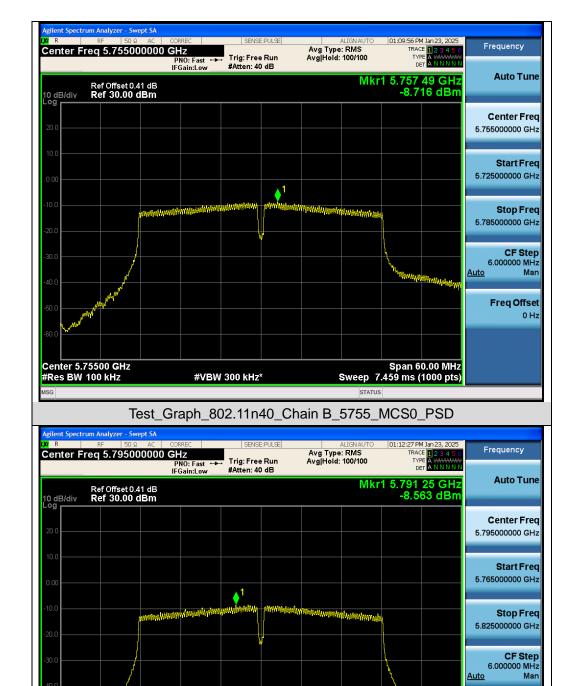




Freq Offset 0 Hz

Span 60.00 MHz Sweep 7.459 ms (1000 pts)

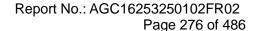




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Test Graph 802.11n40 Chain B 5795 MCS0 PSD

**#VBW 300 kHz\*** 





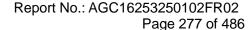


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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 802.11ac20 Chain B 5785 MCS0 PSD

#VBW 300 kHz\*

Span 30.00 MHz Sweep 3.730 ms (1000 pts)



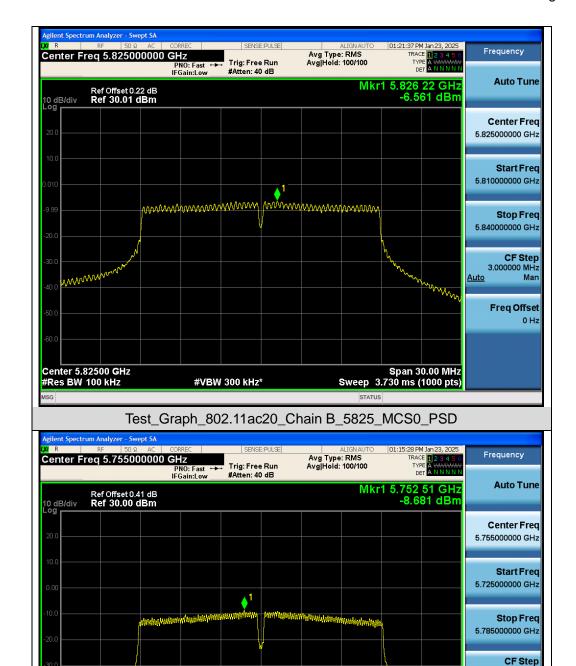
6.000000 MHz Man

Freq Offset 0 Hz

Auto

Span 60.00 MHz Sweep 7.459 ms (1000 pts)

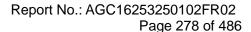




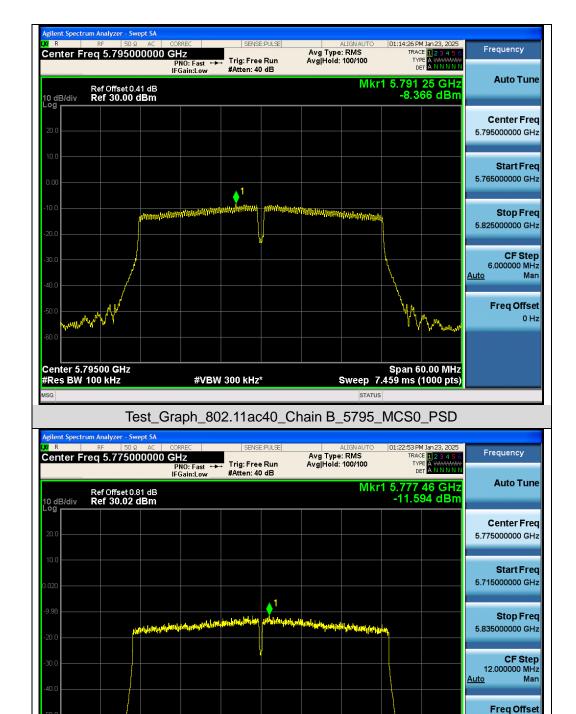
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Test Graph 802.11ac40 Chain B 5755 MCS0 PSD

#VBW 300 kHz\*





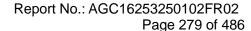


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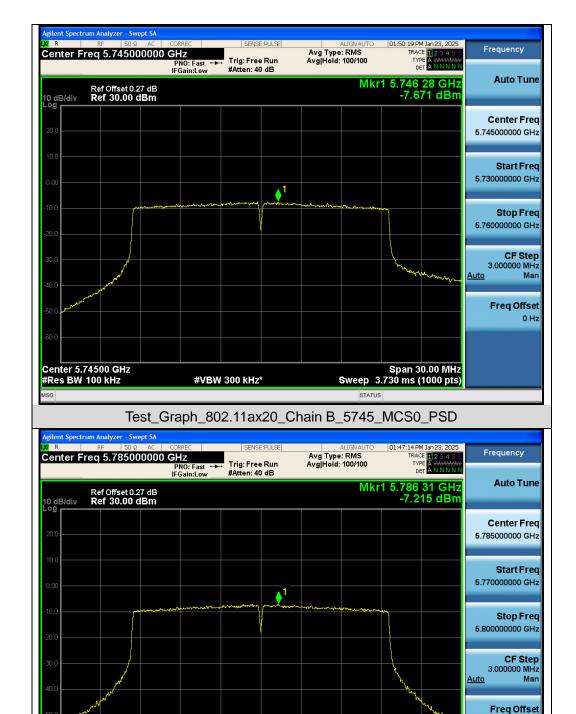
Test Graph 802.11ac80 Chain B 5775 MCS0 PSD

**#VBW 300 kHz\*** 

Span 120.0 MHz Sweep 14.85 ms (1000 pts)





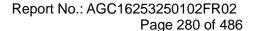


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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 802.11ax20 Chain B 5785 MCS0 PSD

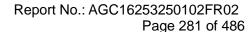
**#VBW 300 kHz\*** 

Span 30.00 MHz Sweep 3.730 ms (1000 pts)













Test Graph 802.11ax80 Chain B 5775 MCS0 PSD



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## 10. Conducted Band Edge and Out-of-Band Emissions

## 10.1 Provisions Applicable

	Applicable to	Limit	
Restricted bands	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	

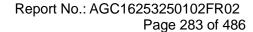
Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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.

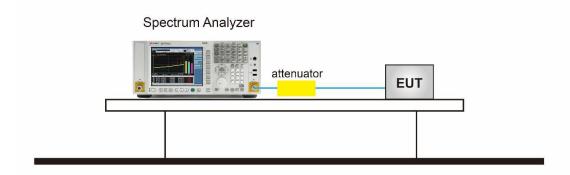
#### **10.2 Measurement Procedure**

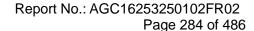
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
- 3. RBW = 1MHz; VBW= 3MHz; Sweep = auto; Detector function = Peak. (Test frequency below 1GHz)
- 4. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = Peak. (Test frequency Above 1GHz)
- 5. Set SPA Trace 1 Max hold, then View.
- 6. Antenna gain and path loss have been compensated to the Correction factor.
- 7. Mark the maximum useless stray point and compare it with the limit value to record the result.





# 10.3 Measurement Setup (Block Diagram of Configuration)

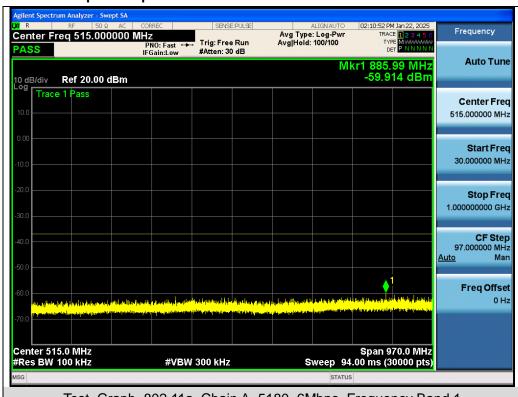






### 10.4 Measurement Results

## Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band



Test\_Graph\_802.11a\_Chain A\_5180\_6Mbps\_Frequency Band 1

