

# FCC Test Report

Report No.: AGC11034210704FE06

**FCC ID** : 2AYHE-2103A  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : WiFi IP Camera  
**BRAND NAME** : Reolink  
**MODEL NAME** : Reolink Argus PT Pro  
**APPLICANT** : Reolink Innovation Limited  
**DATE OF ISSUE** : Sep. 10, 2021  
**STANDARD(S)** : FCC Part 15.407  
**TEST PROCEDURE(S)** : KDB 789033 D02 v02r01  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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## REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 10, 2021	Valid	Initial Release

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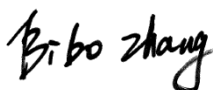
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Reolink Innovation Limited
<b>Address</b>	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
<b>Manufacturer</b>	Reolink Innovation Limited
<b>Address</b>	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
<b>Factory</b>	Shenzhen Reolink Technology Co., Ltd.
<b>Address</b>	2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
<b>Product Designation</b>	WiFi IP Camera
<b>Brand Name</b>	Reolink
<b>Test Model</b>	Reolink Argus PT Pro
<b>Date of test</b>	Aug. 12, 2021 to Sep. 10, 2021
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By



Bibo Zhang  
(Project Engineer)

Sep. 10, 2021

Reviewed By



Max Zhang  
(Reviewer)

Sep. 10, 2021

Approved By



Forrest Lei  
(Authorized Officer)

Sep. 10, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “WiFi IP Camera”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	5150 MHz~5250MHz; 5725 MHz~5850MHz
<b>Test Frequency Range:</b>	For 802.11a/n-HT20: 5180~5240MHz, 5745~5825MHz
<b>Output Power</b>	IEEE 802.11a20:14.58dBm; IEEE 802.11n(20):14.26dBm
<b>Modulation</b>	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, OFDM
<b>Data Rate</b>	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
<b>Number of channels</b>	4 channels of U-NII-1 Band 5 channels of U-NII-3 Band
<b>Hardware Version</b>	V100
<b>Software Version</b>	.469_21071700
<b>Antenna Designation</b>	omnidirectional antenna (Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	2.55dBi
<b>Power Supply</b>	DC 9V by battery or DC 5V by adapter

#### Note:

1. The EUT is designed as client devices operating without radar detection.
2. The device do not support TPC.

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## 2.2. TABLE OF CARRIER FREQUENCIES

**For 5180~5240MHz:**

**4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):**

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

**For 5745~5825MHz:**

**5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):**

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	--	--

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### 2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AYHE-2103A** filing to comply with the FCC Part 15 requirements.

### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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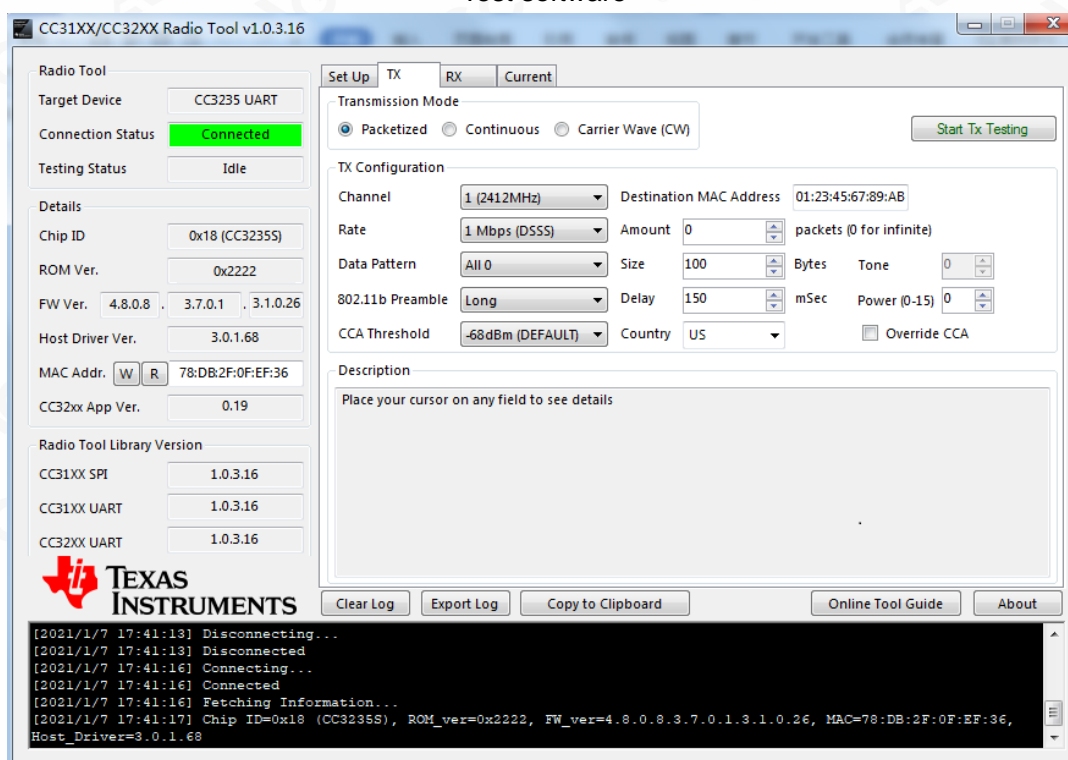
#### 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n20	36,40,44,48, 149,153,157,161,165	36,40,48, 149,157,165	OFDM	6Mbps/MCS0

##### Note:

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

##### Test software



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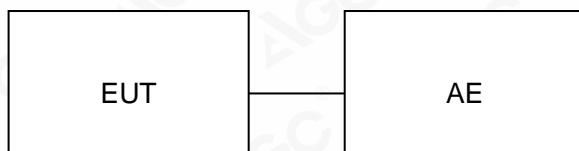
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	WiFi IP Camera	Reolink Argus PT Pro	2AYHE-2103A	EUT
2	Adapter	ZL-PCB0100020502000	N/A	AE
3	TF card	M203	N/A	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2021	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Power sensor	Aglient	U2021XA	MY54110007	Mar. 23, 2020	Mar. 22, 2022
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Sep. 03, 2020	Sep. 02, 2022
Attenuator	ZHINAN	E-002	N/A	Sep.21, 2019	Sep. 20, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	May 22, 2020	May 21, 2022
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Apr. 23, 2021	Apr. 22, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Sep. 03, 2020	Sep. 02, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 20, 2019	Sep. 19, 2021
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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## 7. MAXIMUM CONDUCTED OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

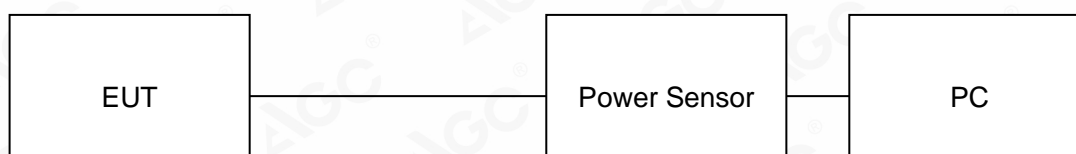
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 7.2. TEST SET-UP

#### AVERAGE POWER SETUP



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### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power for band 5.15-5.25 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	13.86	23.98	Pass
	5200	14.45	23.98	Pass
	5240	13.94	23.98	Pass
802.11n20	5180	13.42	23.98	Pass
	5200	13.83	23.98	Pass
	5240	13.72	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	14.58	30	Pass
	5785	14.17	30	Pass
	5825	14.00	30	Pass
802.11n20	5745	14.26	30	Pass
	5785	13.81	30	Pass
	5825	11.63	30	Pass

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

-6dB bandwidth (DTS bandwidth):

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

99% occupied bandwidth:

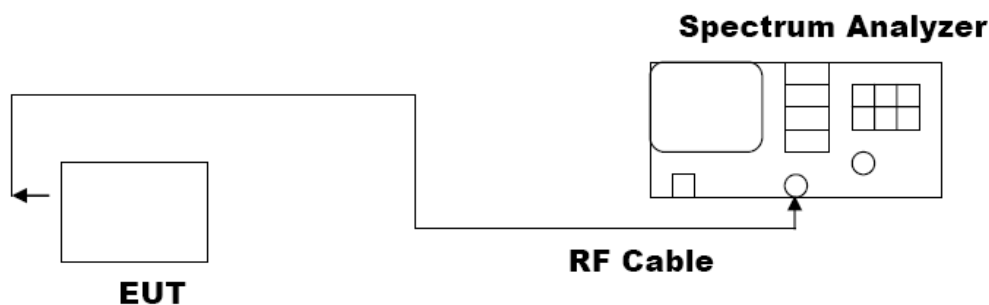
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

-26dB Bandwidth:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 8.3. LIMITS AND MEASUREMENT RESULTS

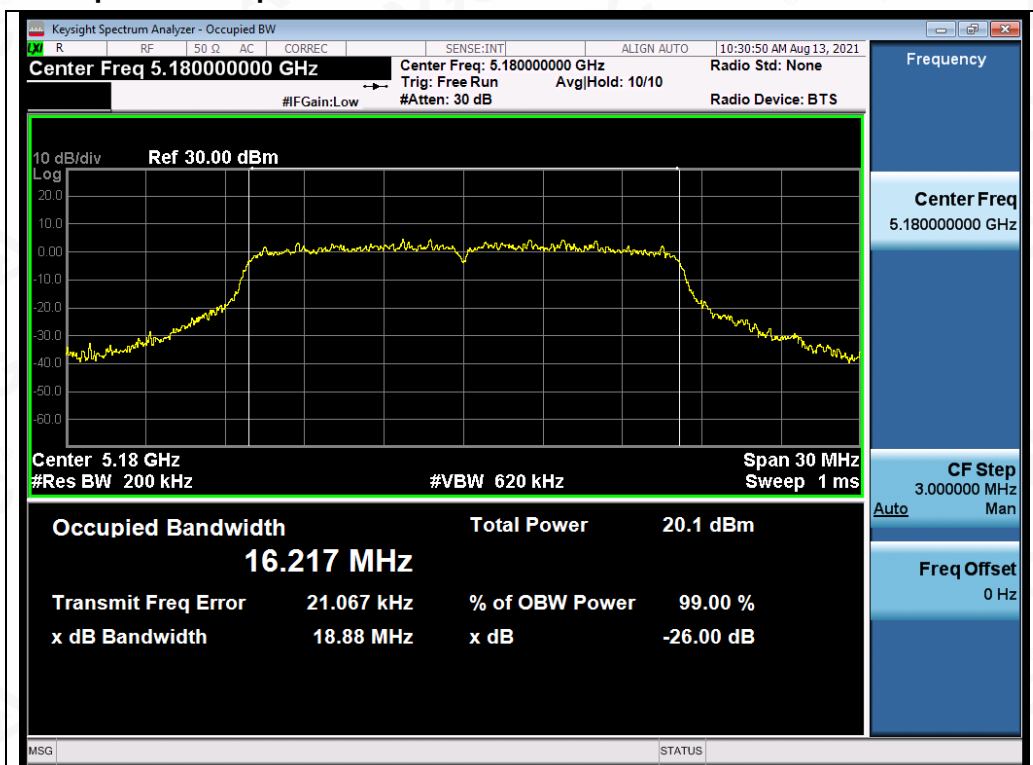
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.217	18.88	N/A	Pass
	5200	16.229	18.95	N/A	Pass
	5240	16.233	18.84	N/A	Pass
802.11n20	5180	17.374	20.11	N/A	Pass
	5200	17.353	19.68	N/A	Pass
	5240	17.350	19.68	N/A	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.232	15.14	0.5	Pass
	5785	16.226	15.08	0.5	Pass
	5825	16.233	15.31	0.5	Pass
802.11n20	5745	17.356	15.12	0.5	Pass
	5785	17.353	15.12	0.5	Pass
	5825	17.377	15.12	0.5	Pass

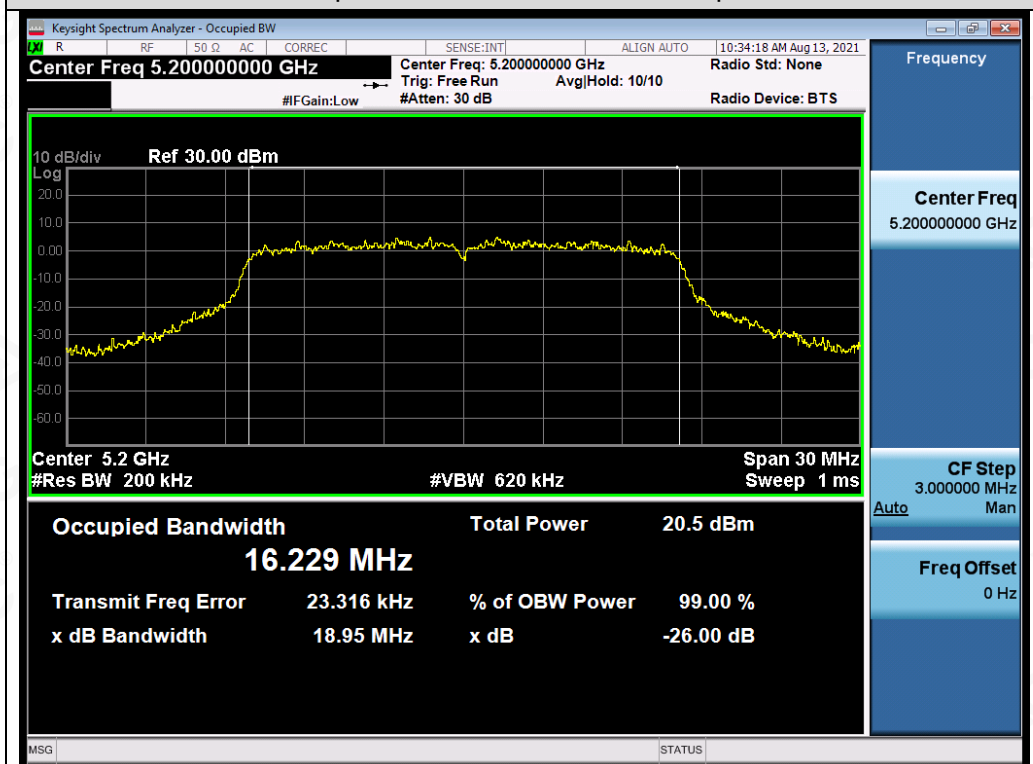
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### Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_OBW



Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_OBW

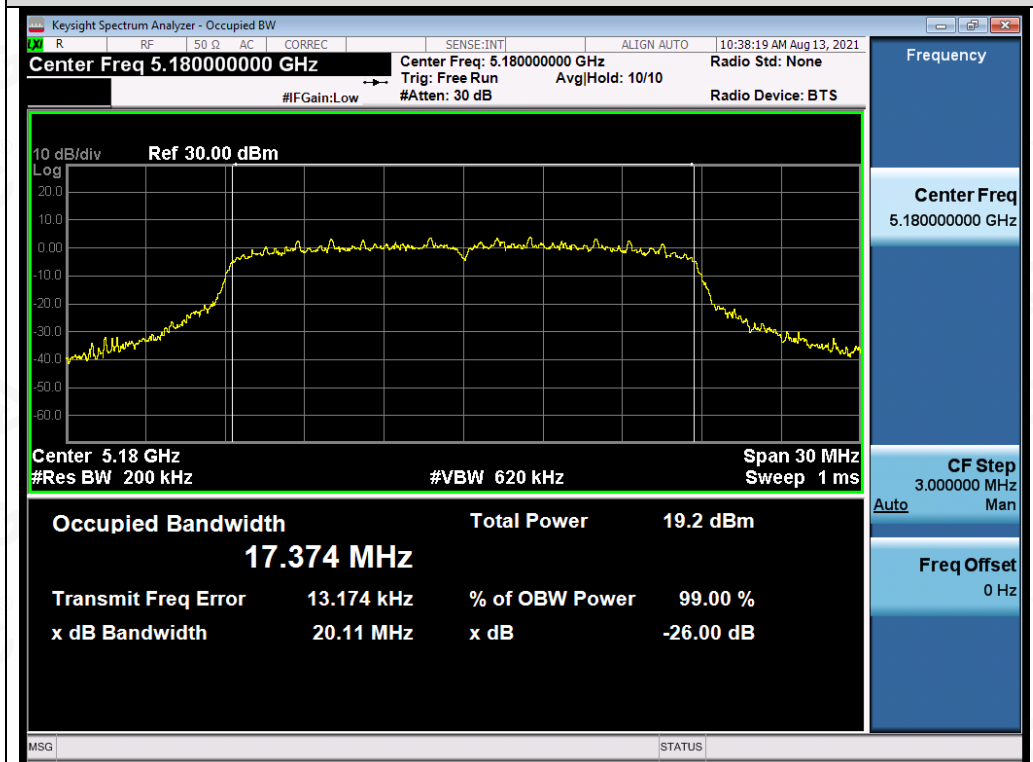
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Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_OBW

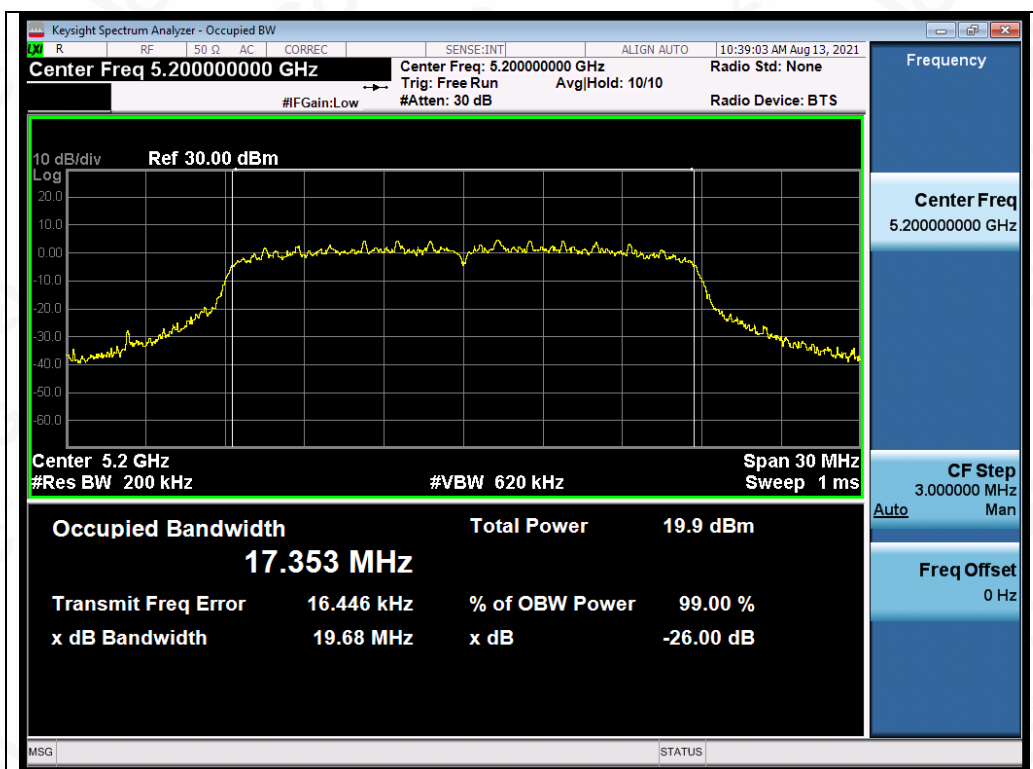


Test\_Graph\_802.11n20\_ANT1\_5180\_MCS0\_OBW

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Test\_Graph\_802.11n20\_ANT1\_5200\_MCS0\_OBW



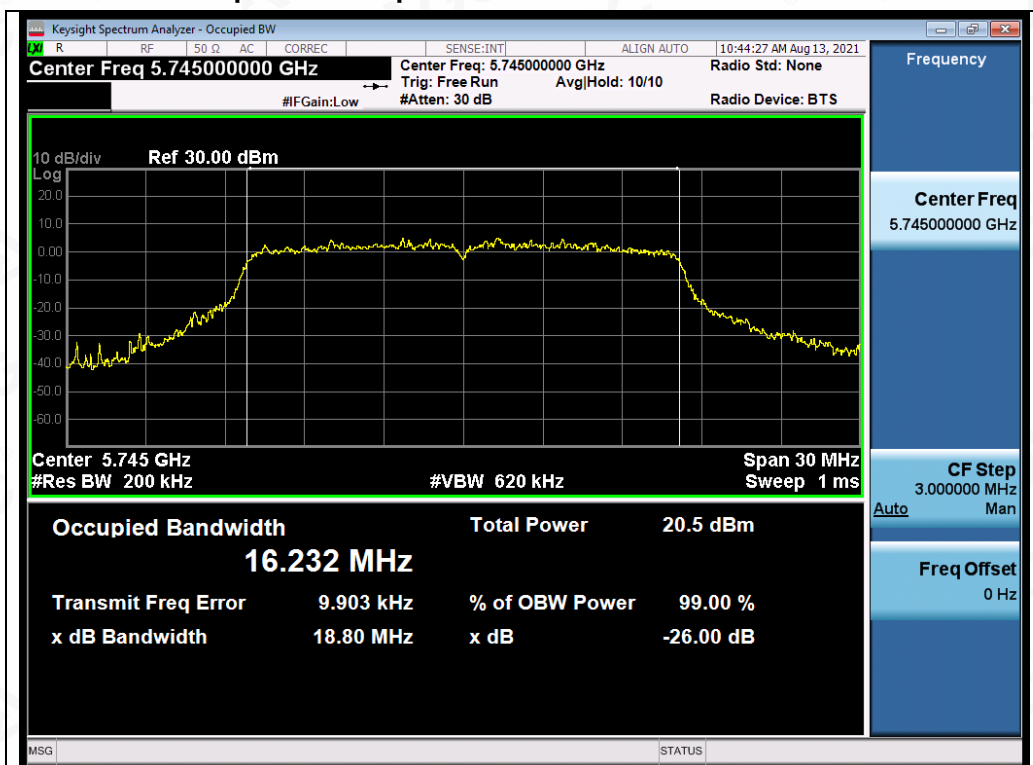
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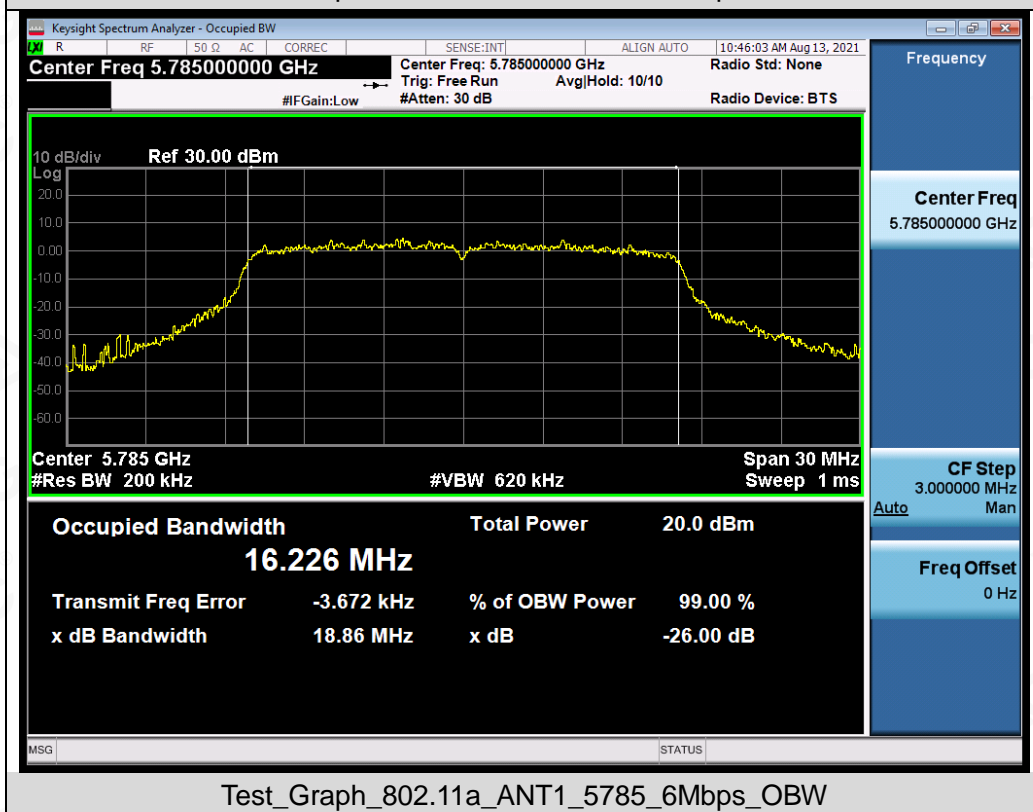
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### Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_OBW

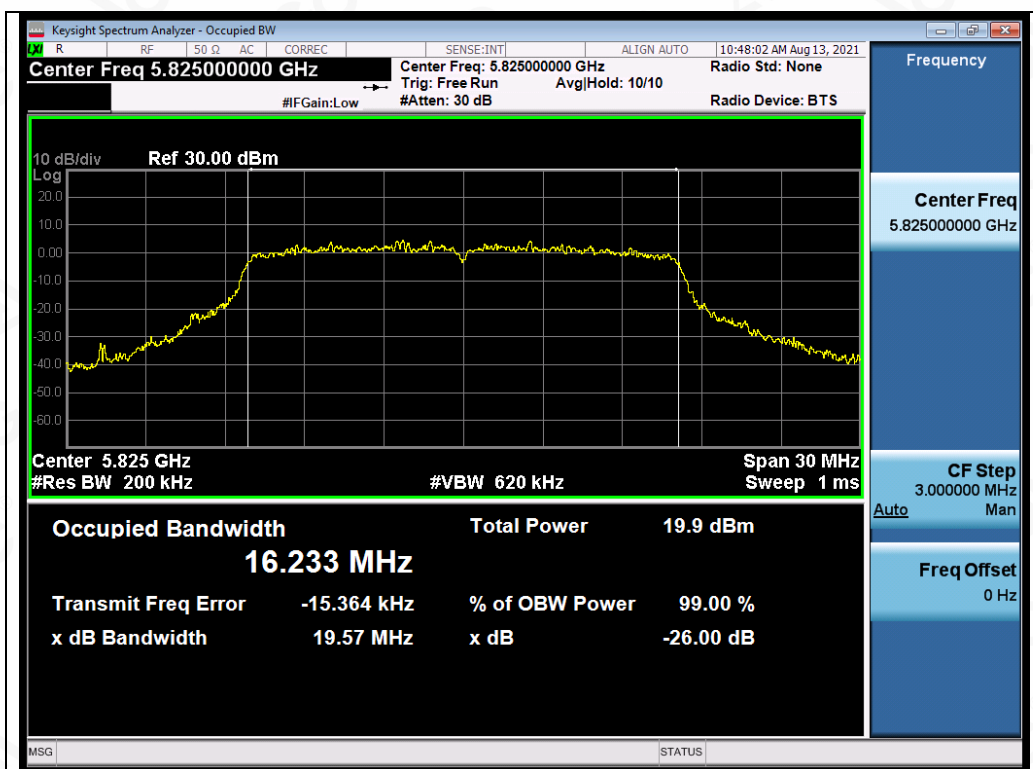


Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_OBW

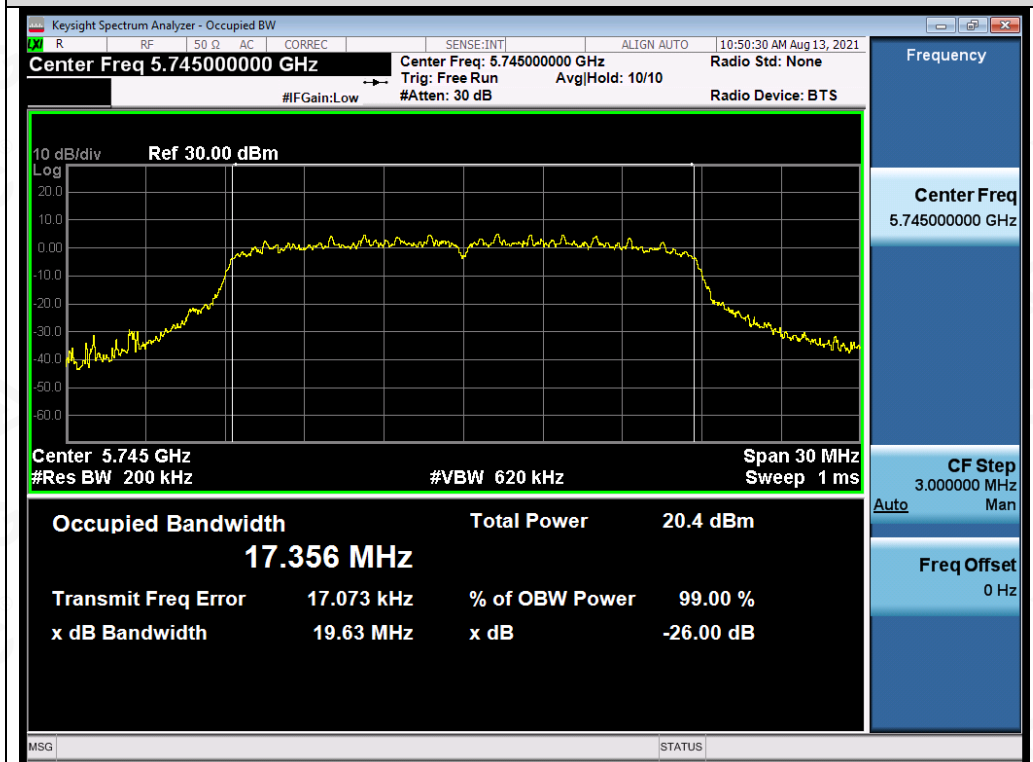
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Test\_Graph\_802.11a\_ANT1\_5825\_6Mbps\_OBW

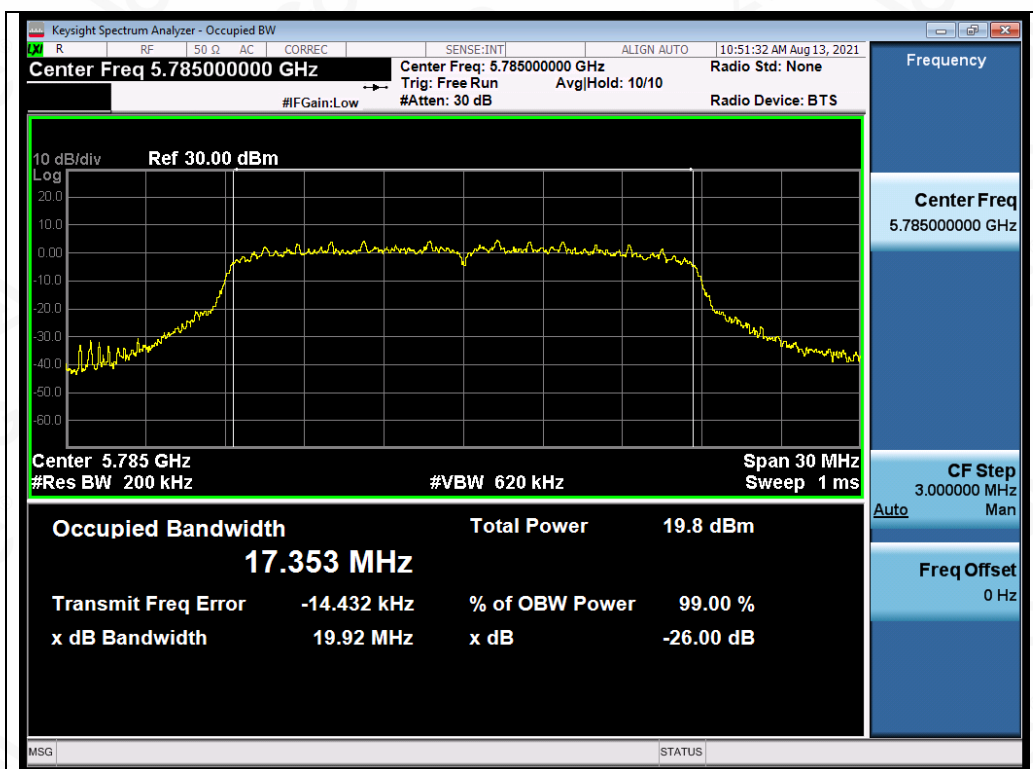


Test\_Graph\_802.11n20\_ANT1\_5745\_MCS0\_OBW

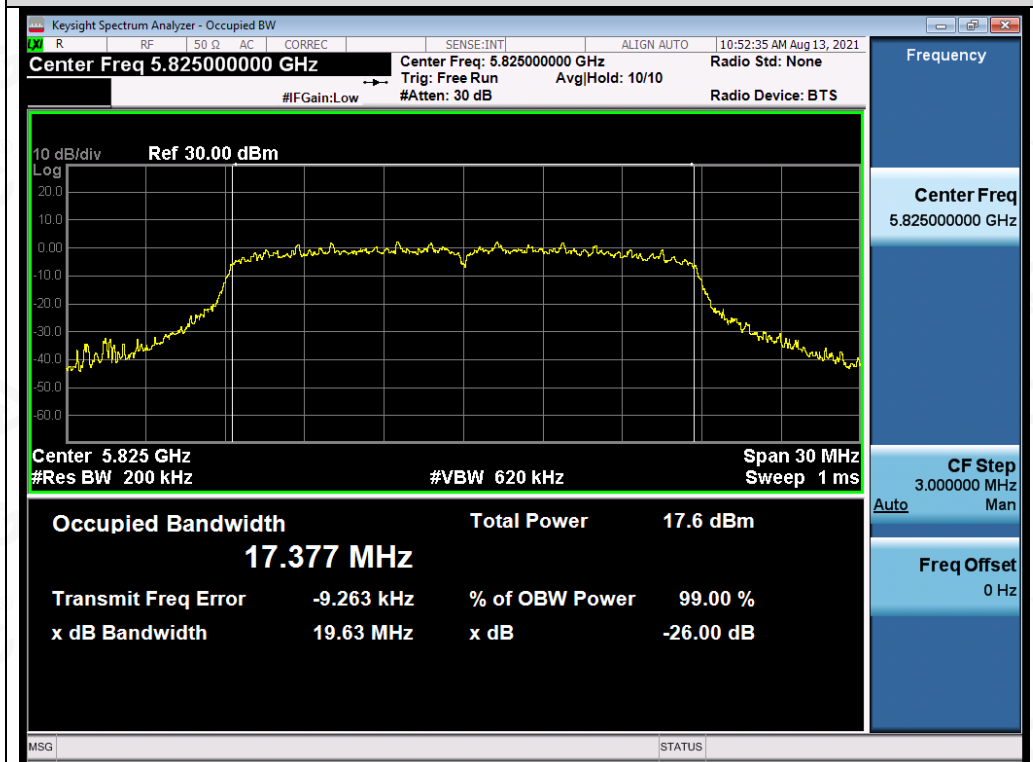
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Test\_Graph\_802.11n20\_ANT1\_5785\_MCS0\_OBW



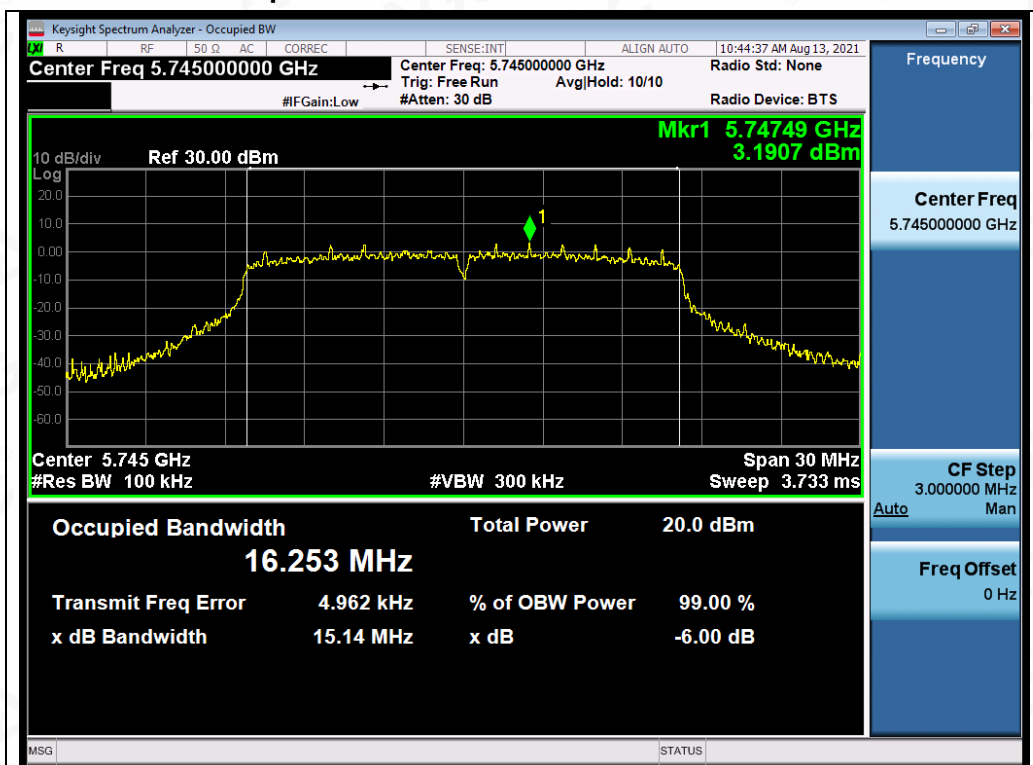
Test\_Graph\_802.11n20\_ANT1\_5825\_MCS0\_OBW

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### Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



### Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_DTSBW



### Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_DTSBW

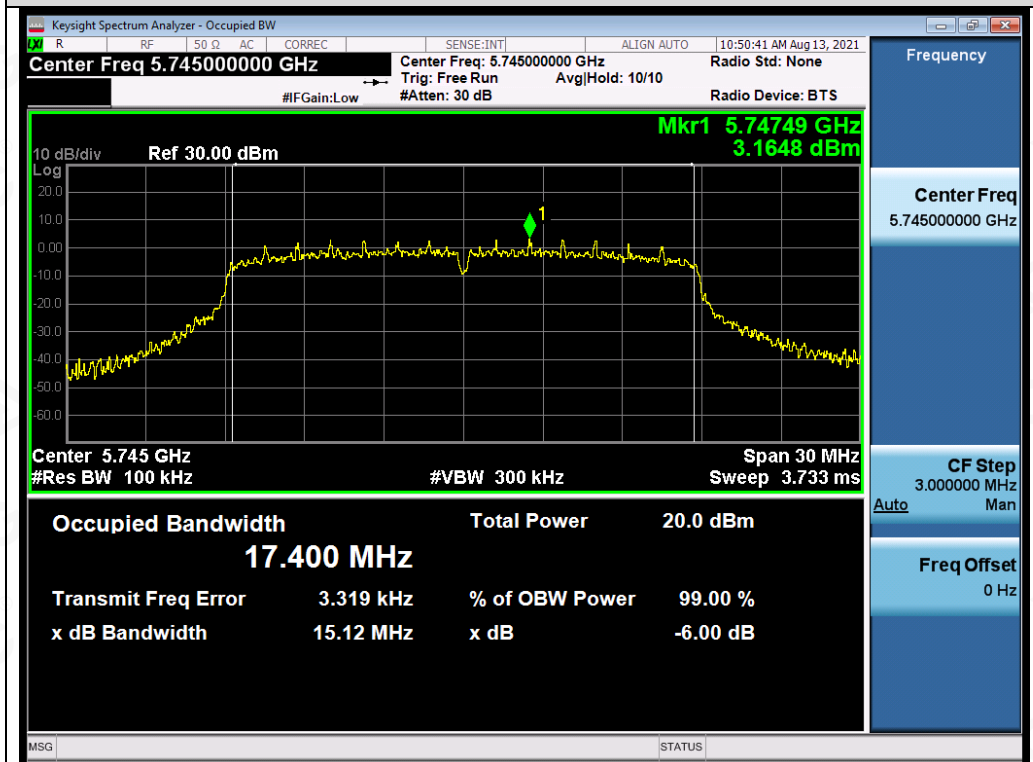
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Test\_Graph\_802.11a\_ANT1\_5825\_6Mbps\_DTSBW



Test\_Graph\_802.11n20\_ANT1\_5745\_MCS0\_DTSBW

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Test\_Graph\_802.11n20\_ANT1\_5785\_MCS0\_DTSBW



Test\_Graph\_802.11n20\_ANT1\_5825\_MCS0\_DTSBW

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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
802.11a	5180	3.242	11	Pass
	5200	3.863	11	Pass
	5240	3.127	11	Pass
802.11n20	5180	2.539	11	Pass
	5200	3.013	11	Pass
	5240	2.860	11	Pass

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-4.811	2.179	30	Pass
	5785	-5.363	1.627	30	Pass
	5825	-5.688	1.302	30	Pass
802.11n20	5745	-5.546	1.444	30	Pass
	5785	-6.147	0.843	30	Pass
	5825	-8.053	-1.063	30	Pass

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

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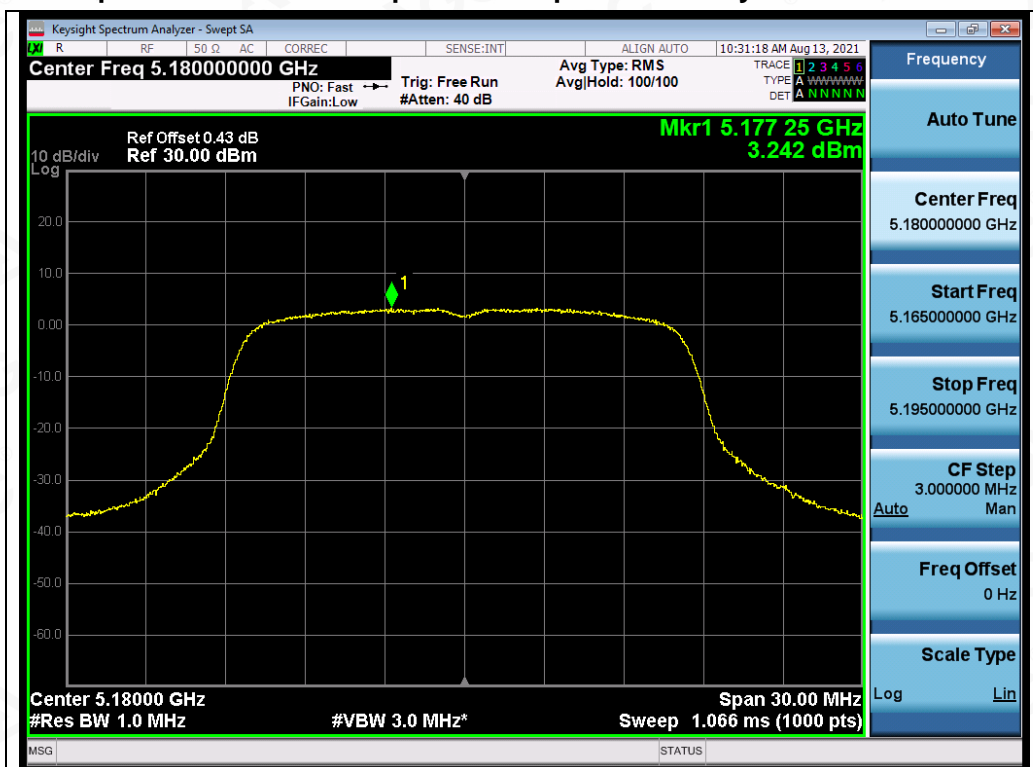
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### Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_PSD

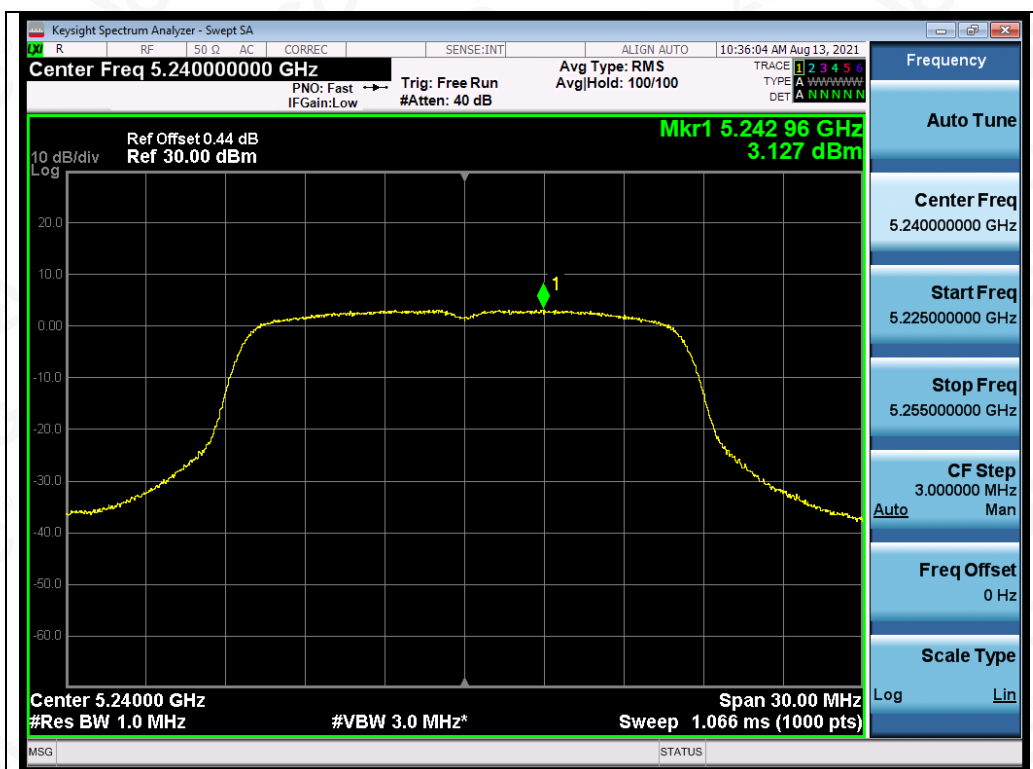


Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_PSD

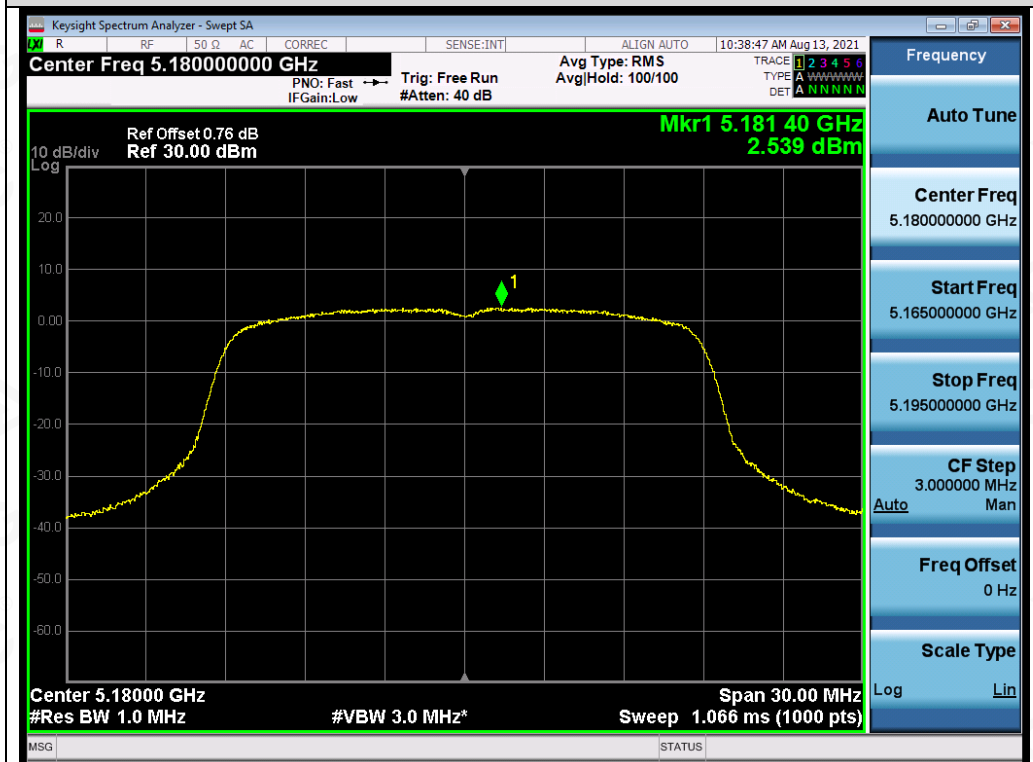
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Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_PSD

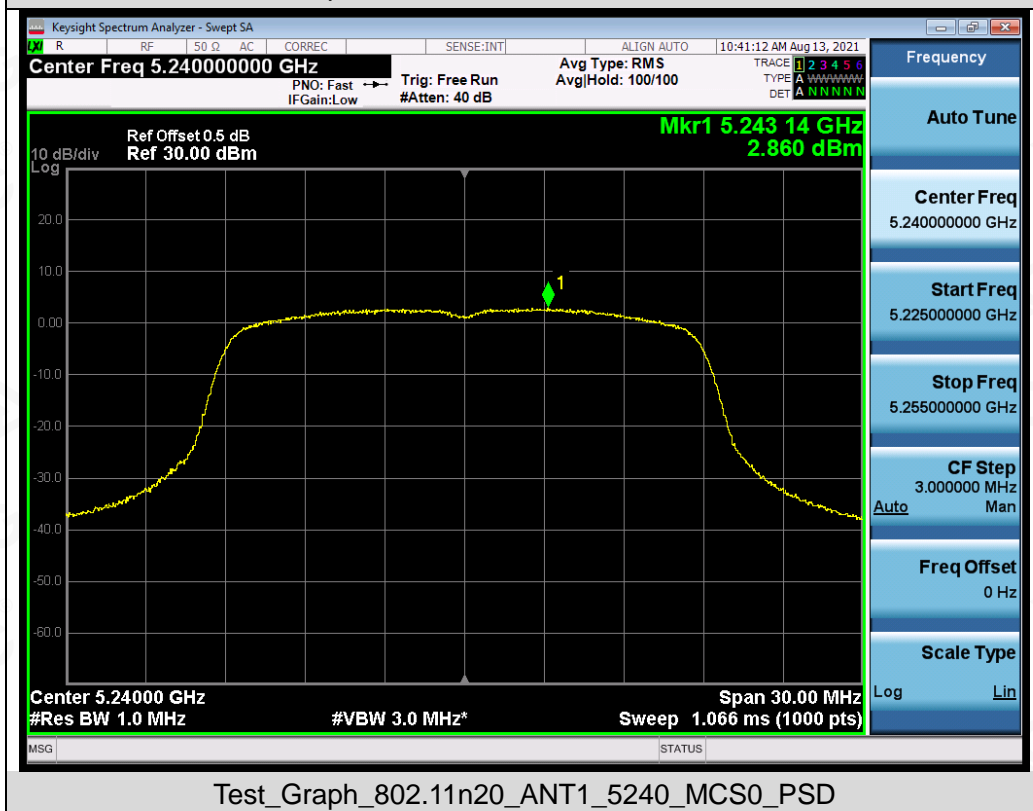
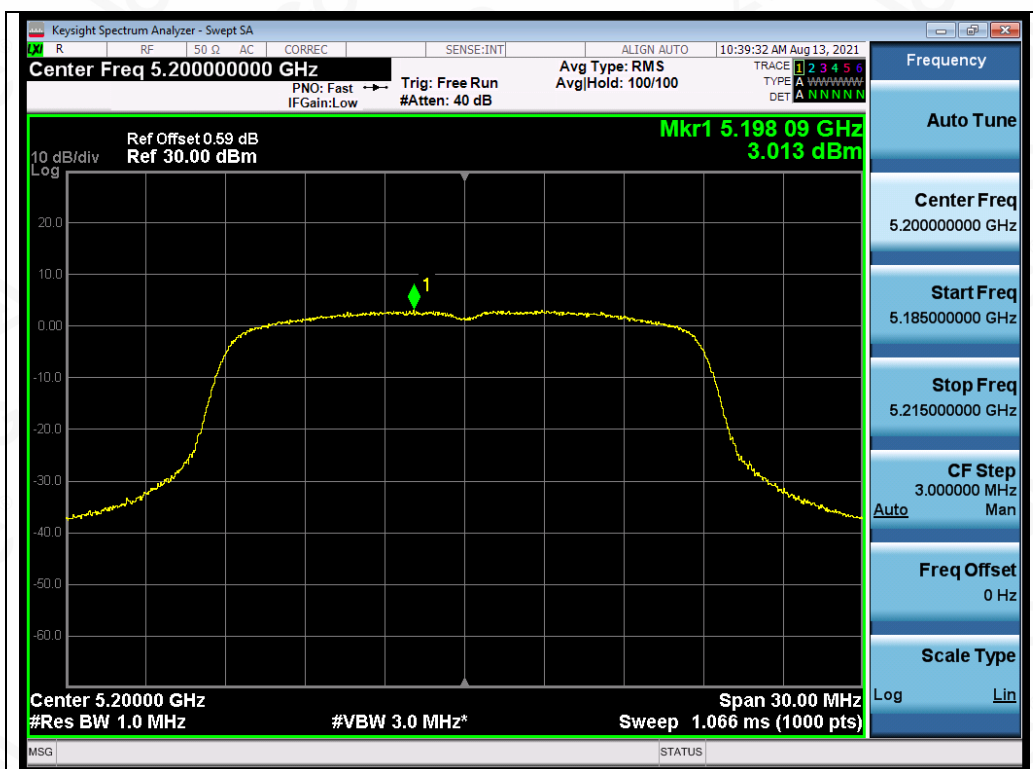


Test\_Graph\_802.11n20\_ANT1\_5180\_MCS0\_PSD

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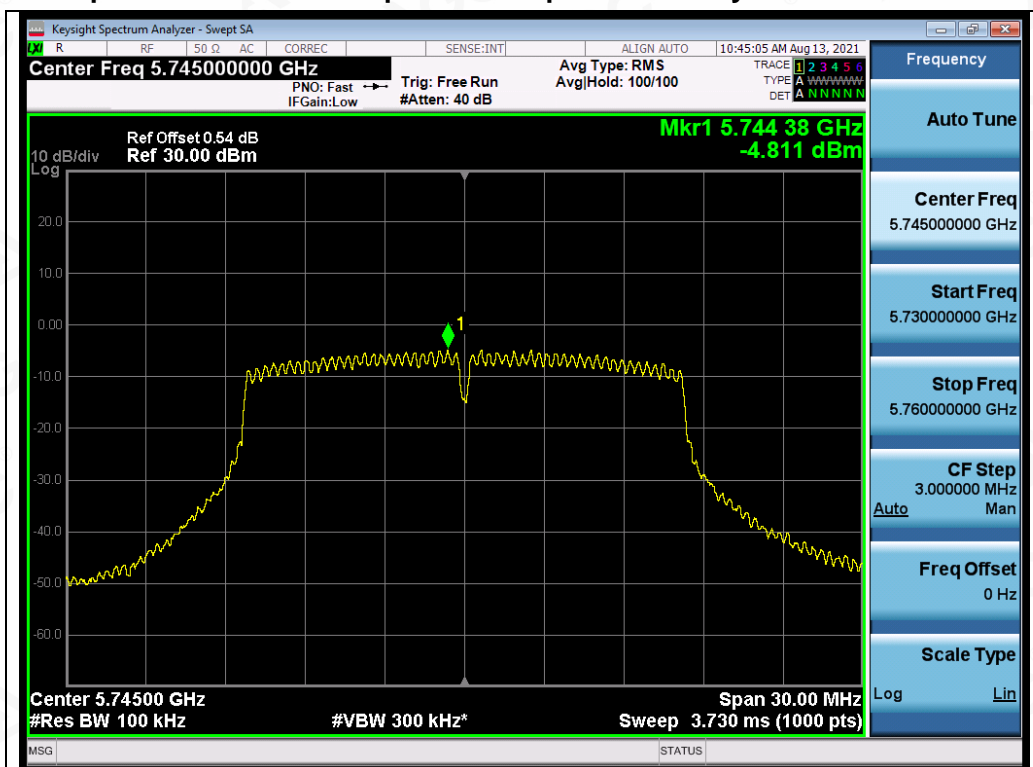


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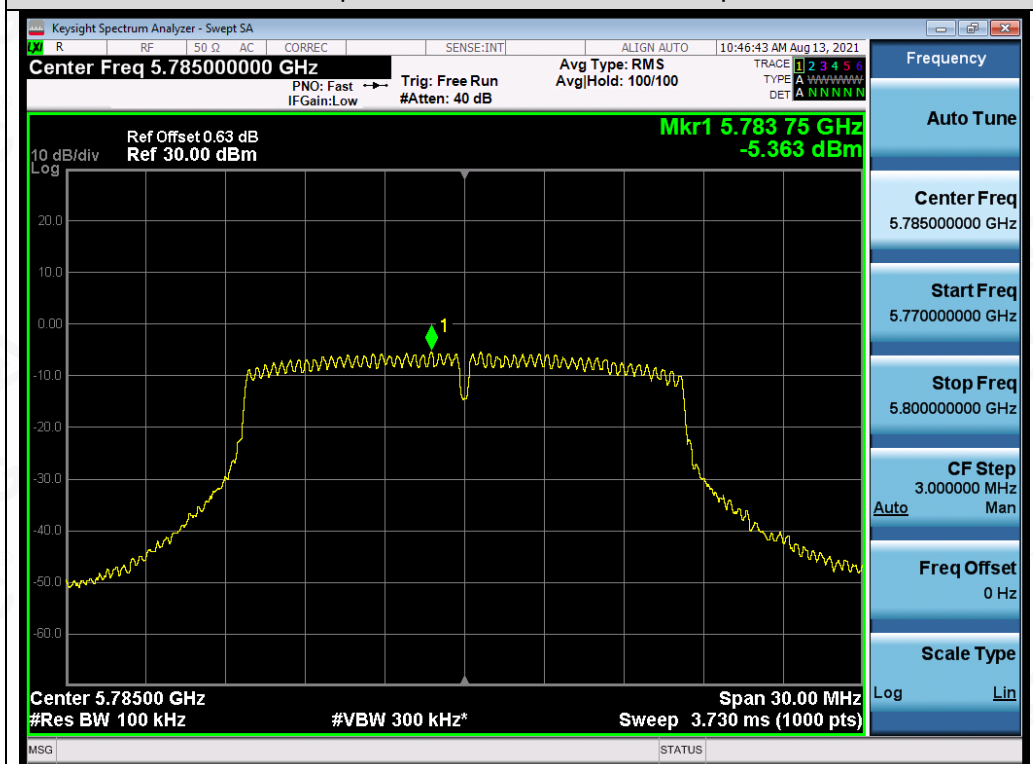
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### Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_PSD

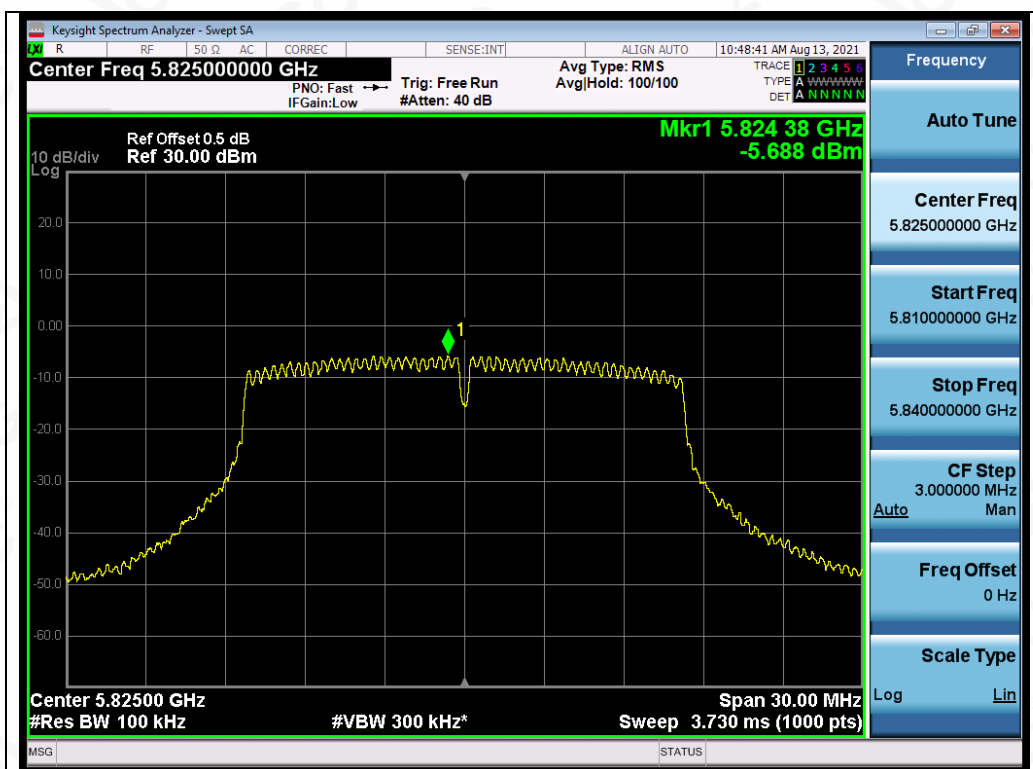


Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_PSD

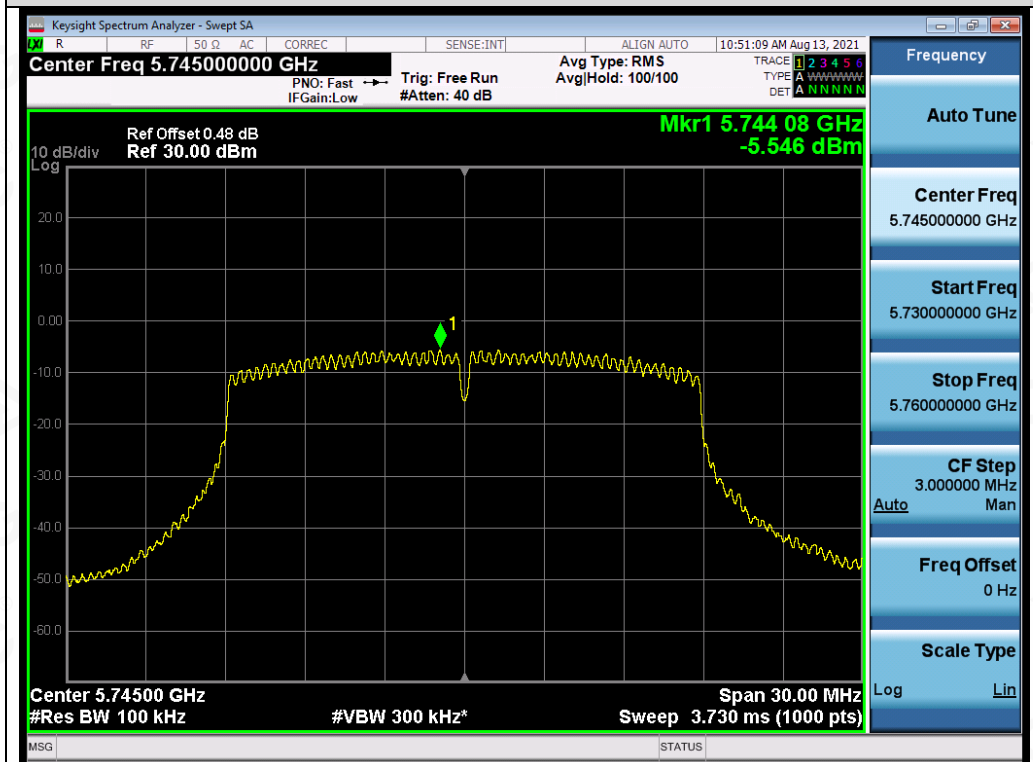
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Test\_Graph\_802.11a\_ANT1\_5825\_6Mbps\_PSD



Test\_Graph\_802.11n20\_ANT1\_5745\_MCS0\_PSD

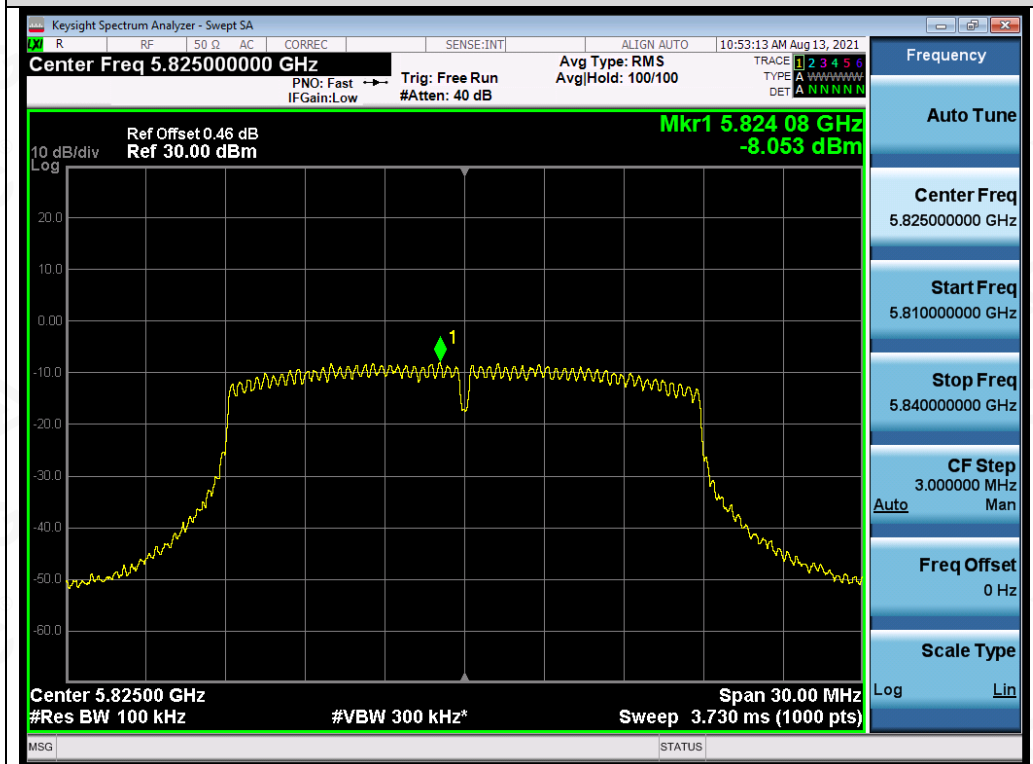
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Test\_Graph\_802.11n20\_ANT1\_5785\_MCS0\_PSD



Test\_Graph\_802.11n20\_ANT1\_5825\_MCS0\_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

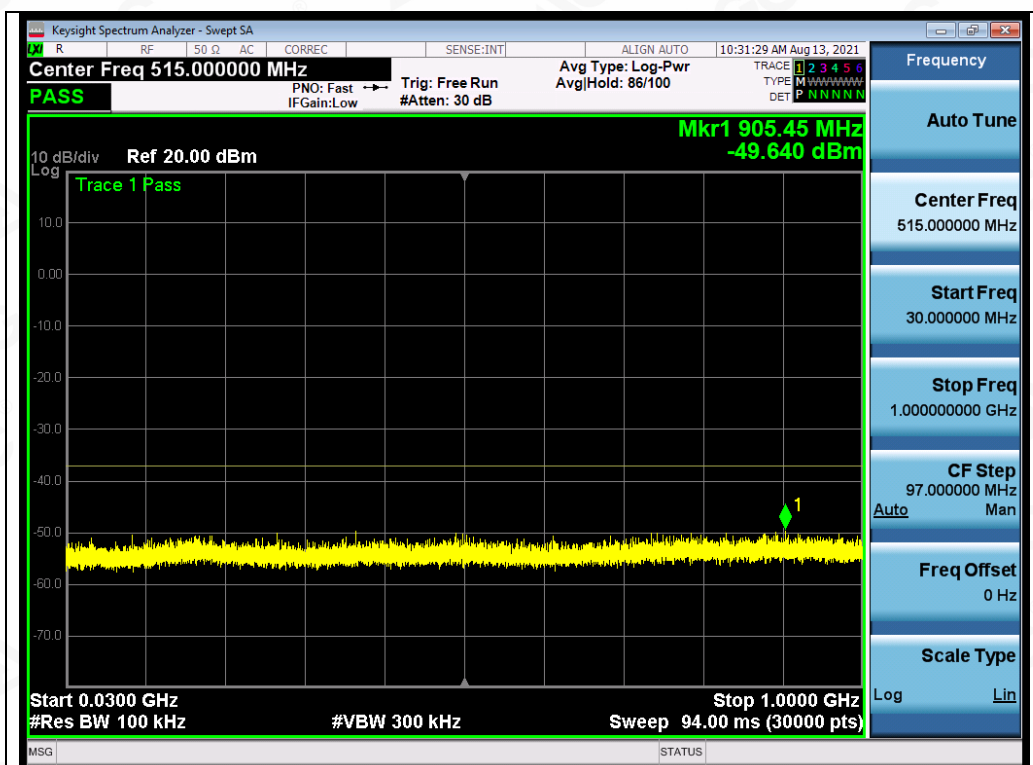
The same as described in section 6.

### 10.4. LIMITS AND MEASUREMENT RESULT

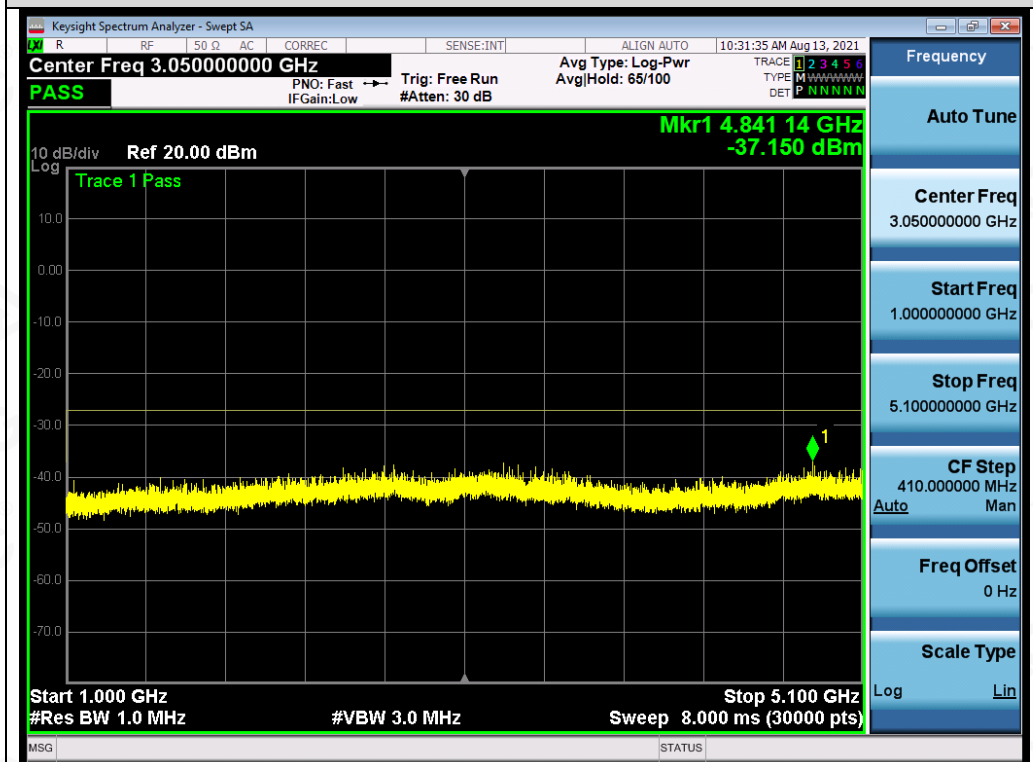
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge,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

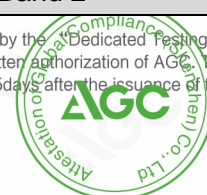


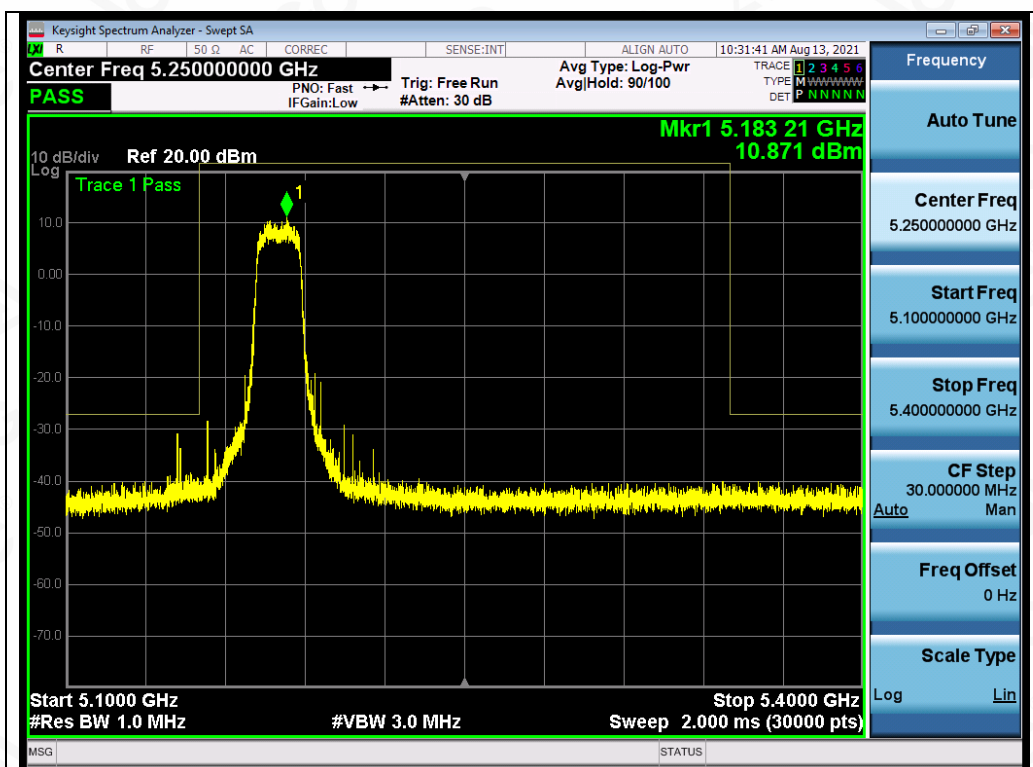
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 1



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 2

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 agc@agc-cert.com.





Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 3

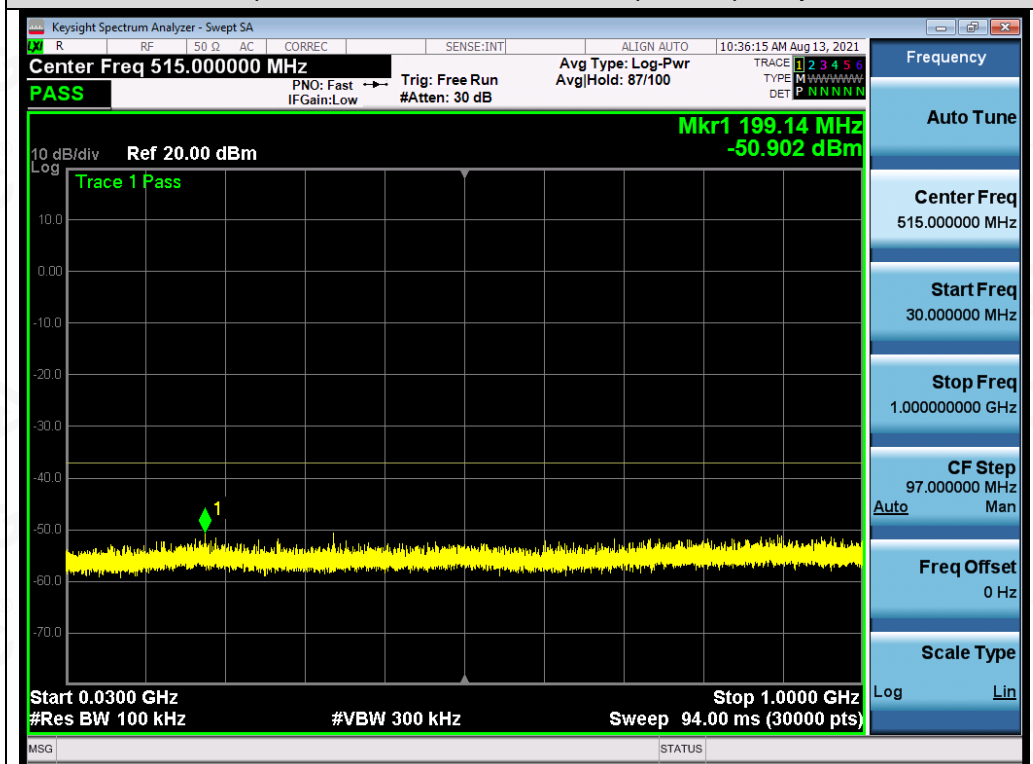
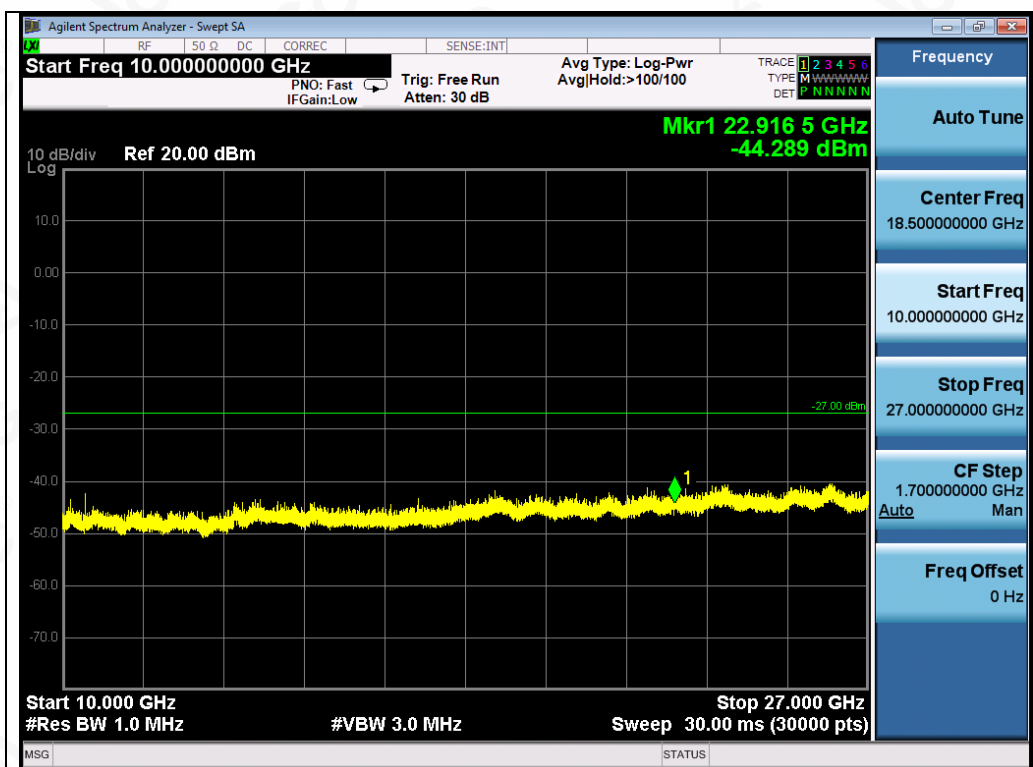


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 4

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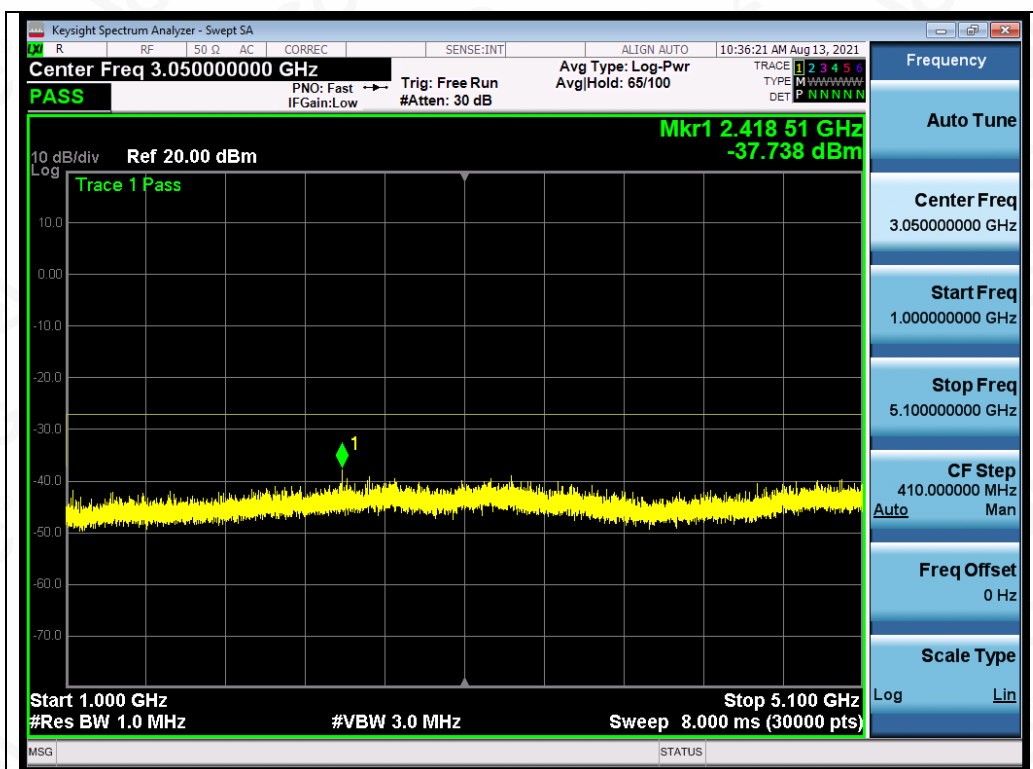




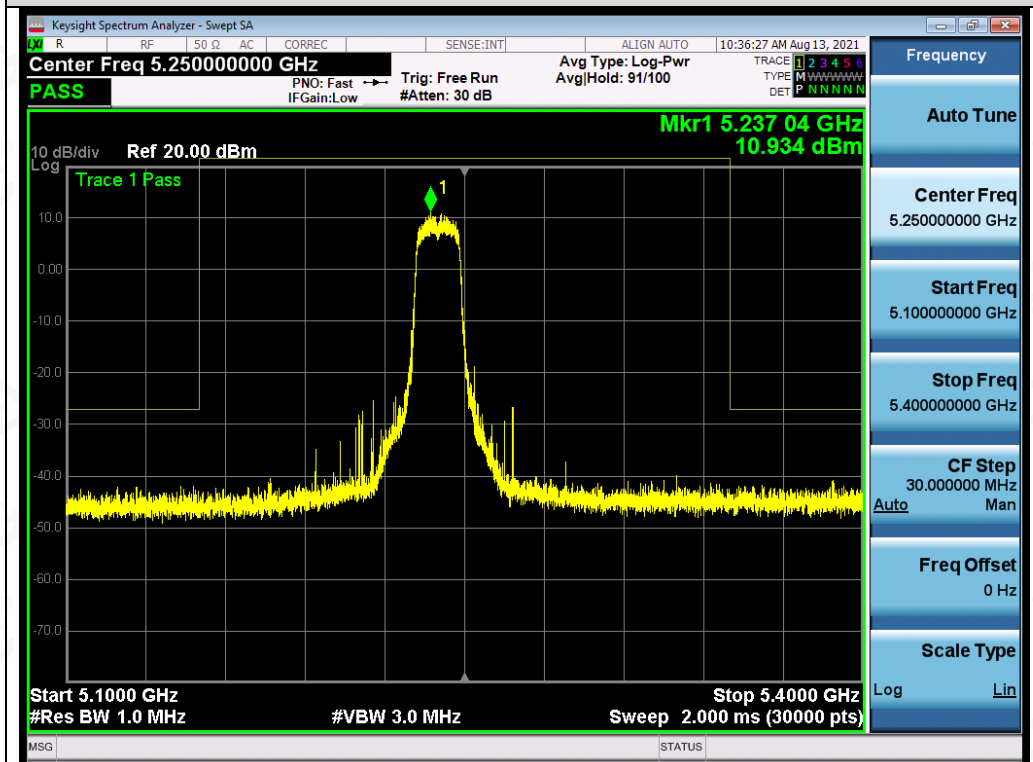
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Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 2



Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 3

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