

FCC Test Report

Report No.: AGC01040220803FE06

FCC ID : 2ACN7RC905

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Group Training Data Hub

BRAND NAME : N/A

MODEL NAME : RC905, RC906, RC907, RC908, RC5, RC6, RC7, RC8, RC9, RC905G

APPLICANT : ShenZhen Fitcare Electronics Co., Ltd.

DATE OF ISSUE : Sep. 22, 2022

STANDARD(S) : FCC Part 15.407
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. 22, 2022	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	ShenZhen Fitcare Electronics Co., Ltd.
Address	6th Floor(south), Building A, Dingxin Science Park, Honglang North 2nd Road, Bao'an, Shenzhen, China
Manufacturer	ShenZhen Fitcare Electronics Co., Ltd.
Address	6th Floor(south), Building A, Dingxin Science Park, Honglang North 2nd Road, Bao'an, Shenzhen, China
Factory	ShenZhen Fitcare Electronics Co., Ltd.
Address	6th Floor(south), Building A, Dingxin Science Park, Honglang North 2nd Road, Bao'an, Shenzhen, China
Product Designation	Group Training Data Hub
Brand Name	N/A
Test Model	RC905
Series Model	RC906, RC907, RC908, RC5, RC6, RC7, RC8, RC9, RC905G
Declaration of Difference	All the same except for the model name
Date of test	Aug. 17,2022 to Sep. 22,2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	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		
	Alan Duan (Project Engineer)	Sep. 22, 2022
Reviewed By		
	Calvin Liu (Reviewer)	Sep. 22, 2022
Approved By		
	Max Zhang (Authorized Officer)	Sep. 22, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Group Training Data Hub”. 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

Equipment Type	☐ Outdoor access points ☐ Fixed P2P access points	☐ Indoor access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☐ U-NII 2C:5470MHz~5725MHz	☒ U-NII 2A: 5250MHz~5350MHz ☐ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection	☒ Slave without radar detection
TPC Function	☐ Yes ☒ No	
Test Frequency Range	For 802.11a/n-HT20: 5180~5240MHz, 5260~5320MHz For 802.11n-HT40: 5190~5230MHz, 5270~5310MHz	
Max Average Power	IEEE 802.11a: 11.19dBm; IEEE 802.11n-HT20: 10.70dBm; IEEE 802.11n-HT40: 10.50dBm;	
Modulation	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM, 128QAM)	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps	
Number of channels	6 channels of U-NII-1 Band 6 channels of U-NII-2A Band	
Hardware Version	V1.3.1	
Software Version	V1.5.9	
Antenna Designation	FPC antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	4.95dBi	
Power Supply	DC 5V from type-C port or DC 12V from adapter	

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2.2. TABLE OF CARRIER FREQUENCIES

For 5180~5240MHz:

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

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

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

For 5260~5320MHz:

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

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

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

This submittal(s) (test report) is intended for **FCC ID: 2ACN7RC905** 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.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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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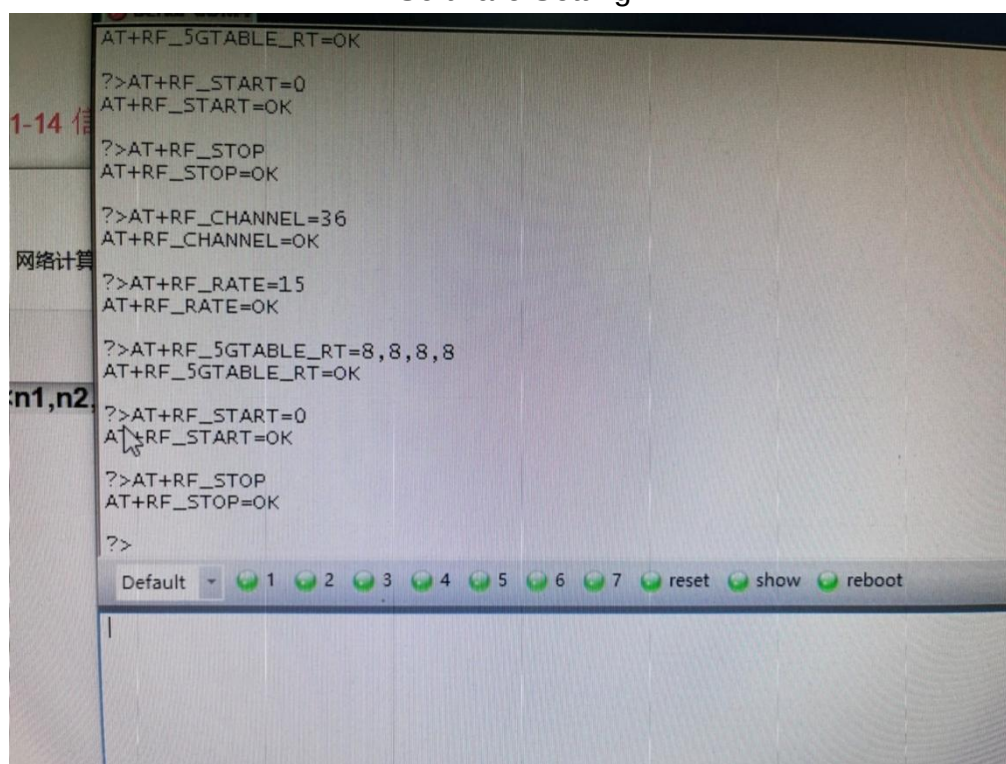
4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n	36,40,44,48,	36,40,48,	OFDM	6Mbps/MCS0
802.11n	38,46	38,46	OFDM	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.

Software Setting

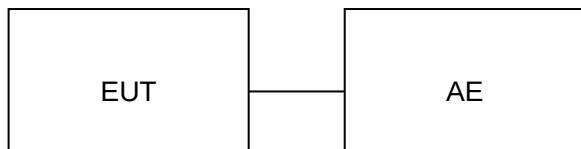


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Group Training Data Hub	RC905	2ACN7RC905	EUT
2	USB Cable	N/A	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§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

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	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	Mar. 28, 2022	Mar. 27, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2022	Jun. 08, 2023
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	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Power sensor	Aglient	U2021XA	MY54110007	May. 04, 2022	May. 03, 2023
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 23, 2022	Mar. 22, 2024
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 02, 2022	Sep. 01, 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 02, 2022	Sep. 01, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

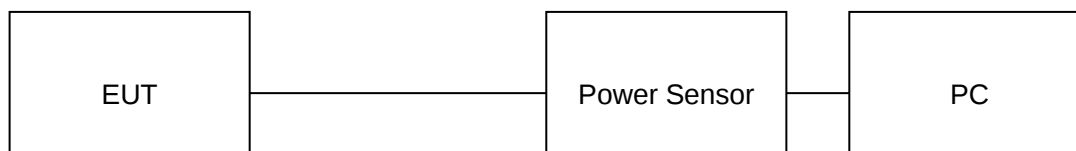
For average power test:

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	11.19	24	Pass
	5200	10.80	24	Pass
	5240	10.10	24	Pass
802.11n20	5180	10.70	24	Pass
	5200	10.33	24	Pass
	5240	9.61	24	Pass
802.11n40	5190	10.50	24	Pass
	5230	9.87	24	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	10.58	24	Pass
	5300	9.73	24	Pass
	5320	9.37	24	Pass
802.11n20	5260	10.13	24	Pass
	5300	9.43	24	Pass
	5320	8.87	24	Pass
802.11n40	5270	10.10	24	Pass
	5310	9.10	24	Pass

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

99% occupied bandwidth:

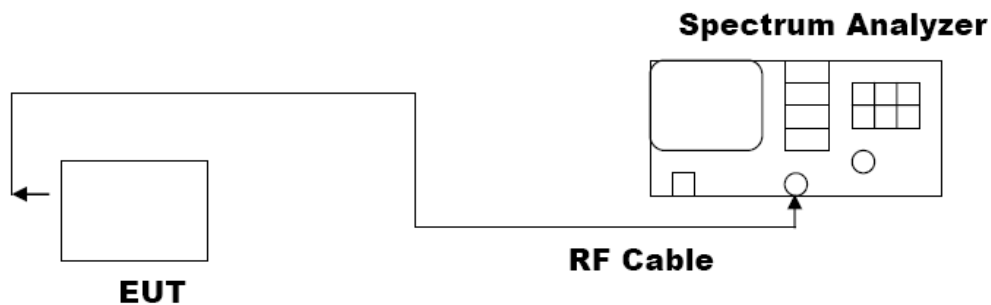
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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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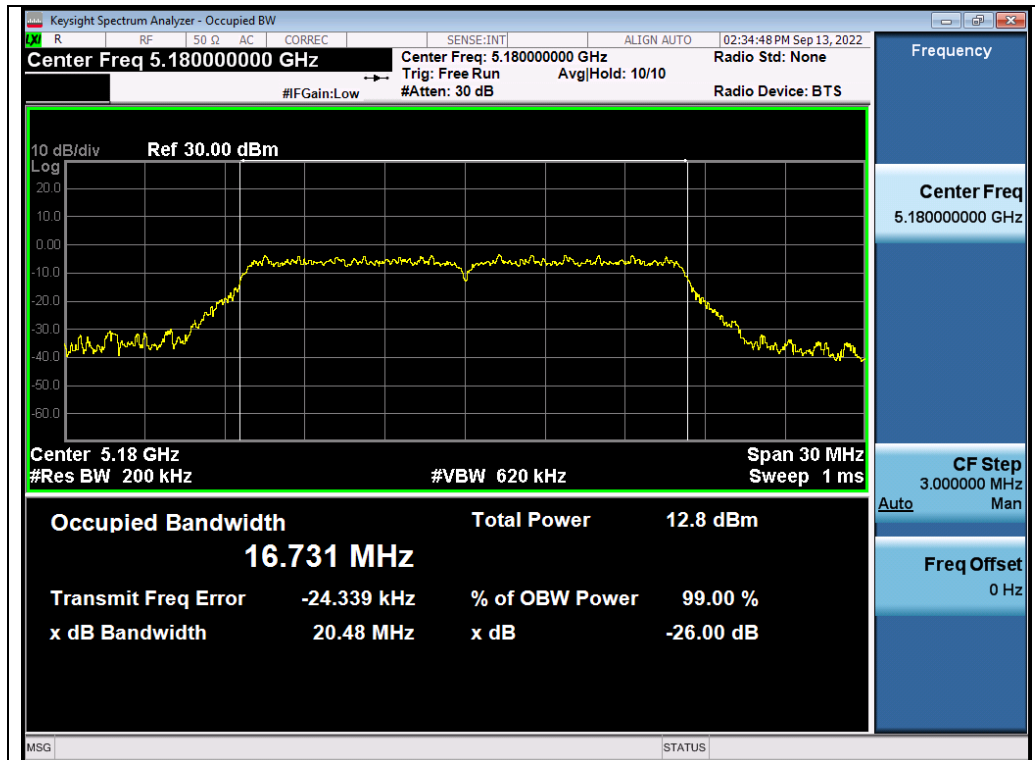
8.3. LIMITS AND MEASUREMENT RESULTS

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	16.731	20.482	N/A	Pass
	5200	16.739	20.470	N/A	Pass
	5240	16.764	23.400	N/A	Pass
802.11n20	5180	17.799	20.595	N/A	Pass
	5200	17.815	20.684	N/A	Pass
	5240	17.838	21.523	N/A	Pass
802.11n40	5190	36.297	40.814	N/A	Pass
	5230	36.302	40.630	N/A	Pass

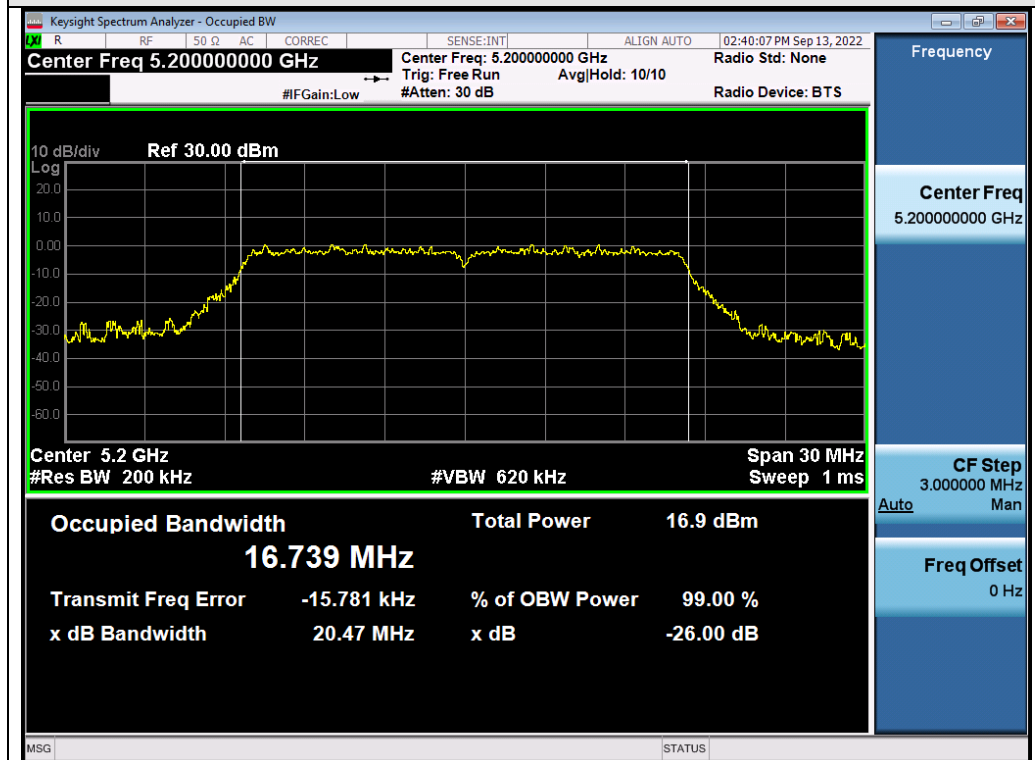
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.859	26.381	N/A	Pass
	5300	16.947	28.606	N/A	Pass
	5320	16.983	28.731	N/A	Pass
802.11n20	5260	17.886	25.027	N/A	Pass
	5300	17.970	28.700	N/A	Pass
	5320	17.980	29.466	N/A	Pass
802.11n40	5270	36.342	47.895	N/A	Pass
	5310	36.455	59.963	N/A	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



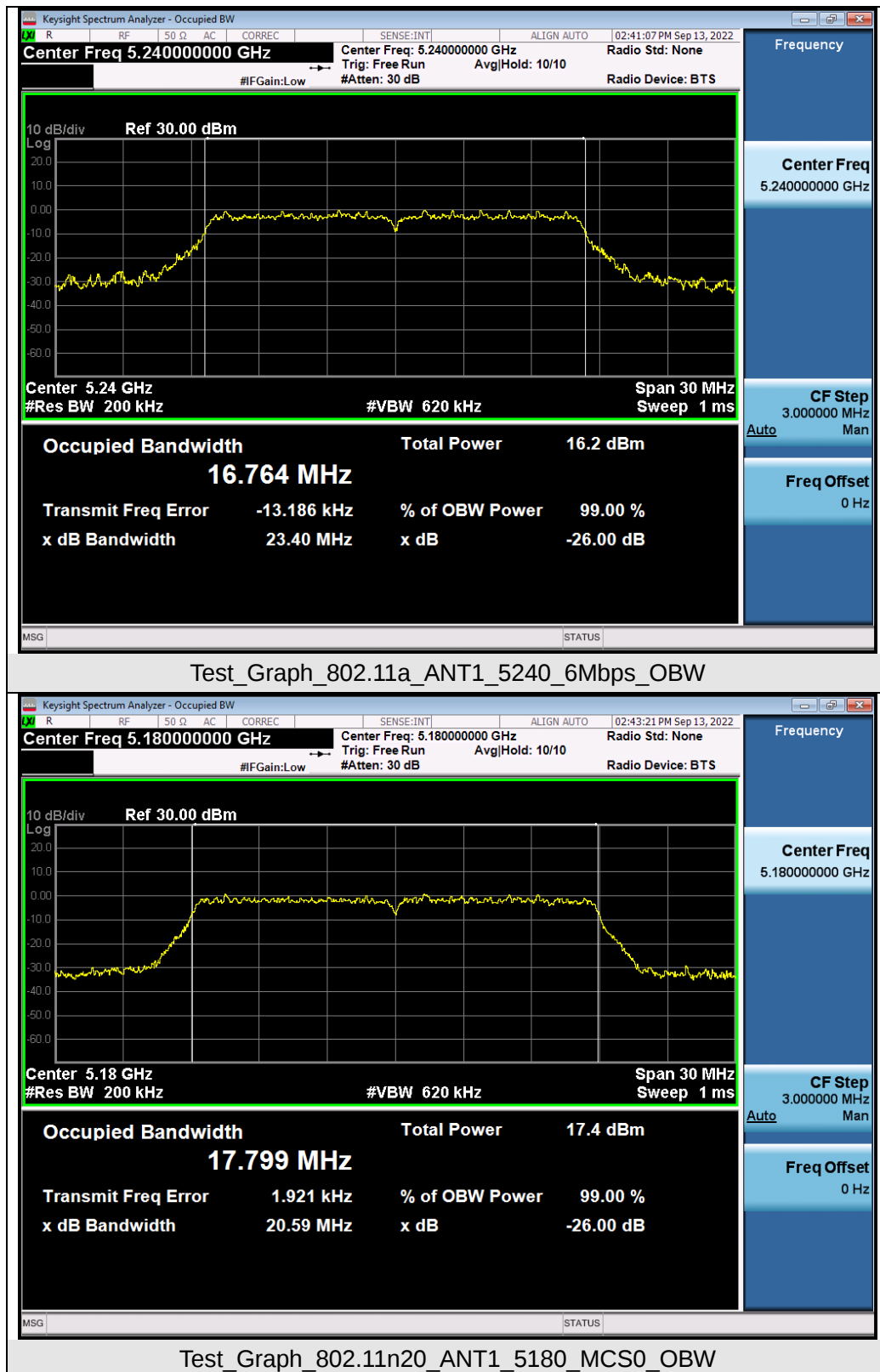
Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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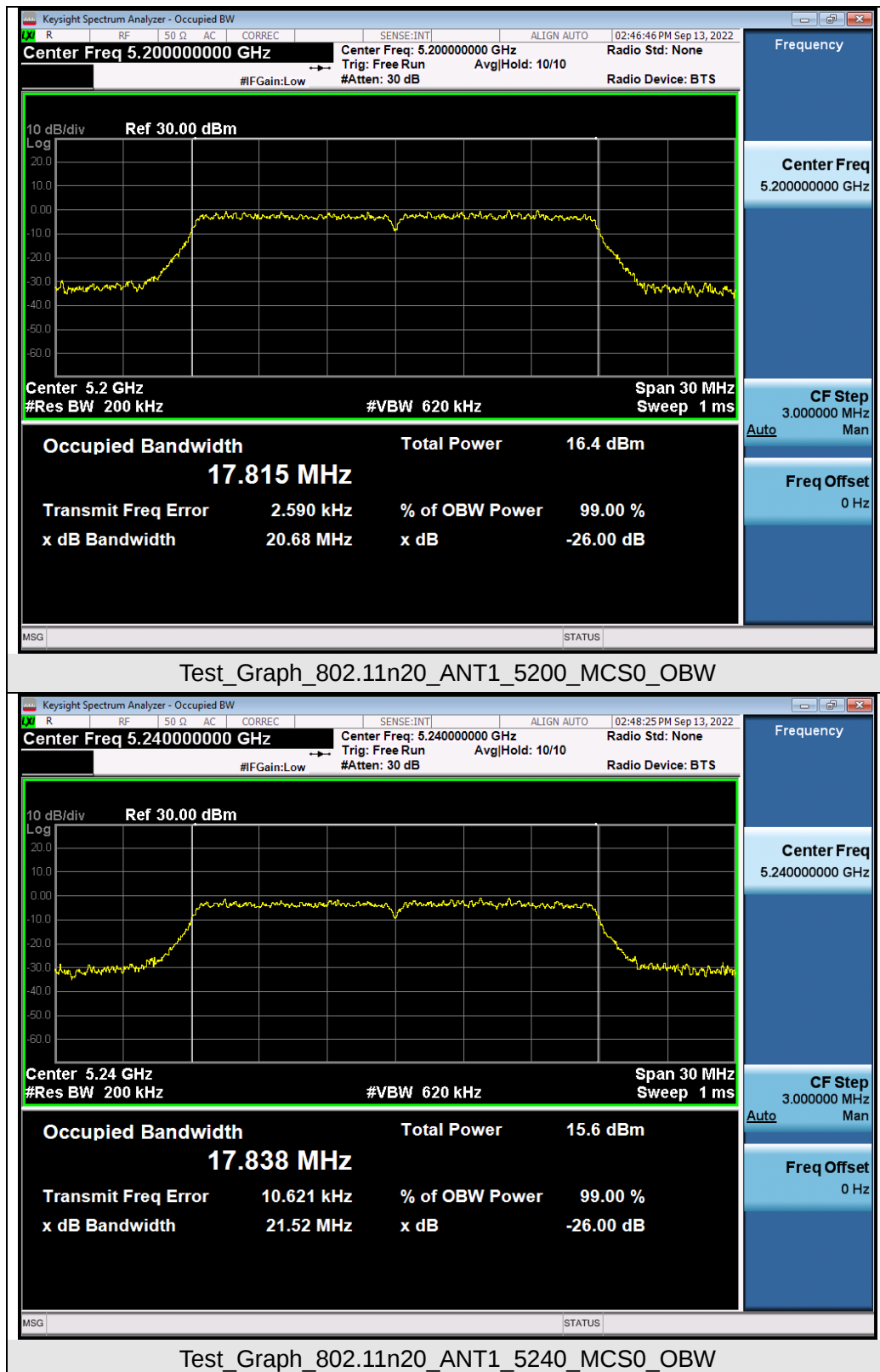
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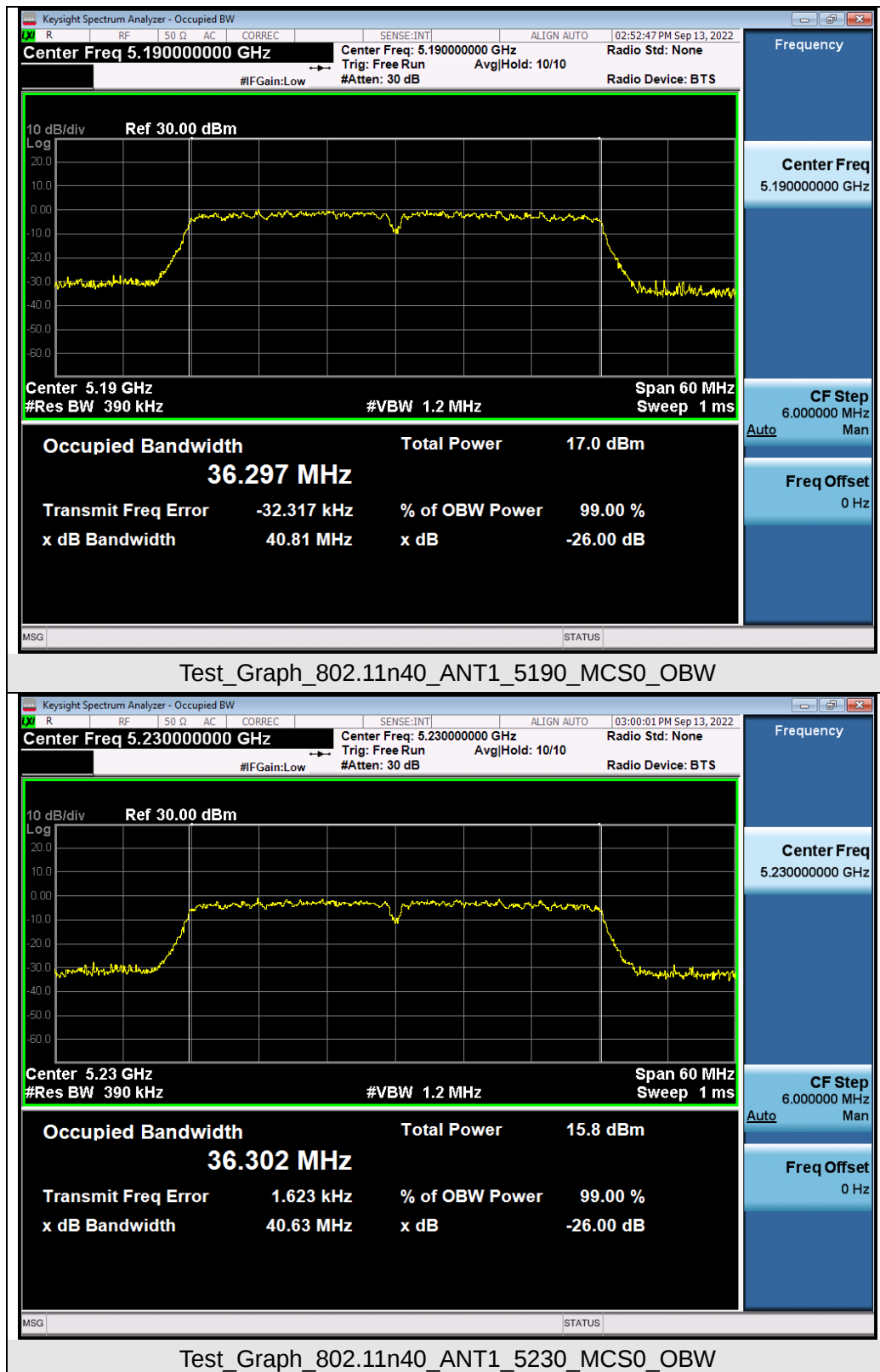
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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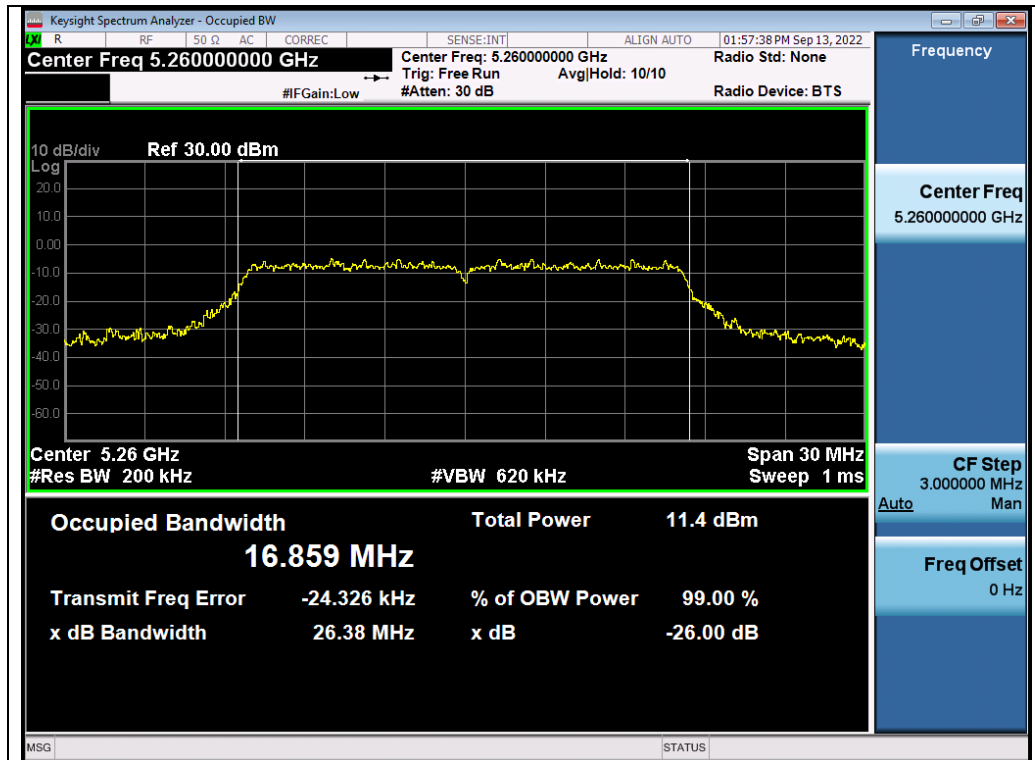


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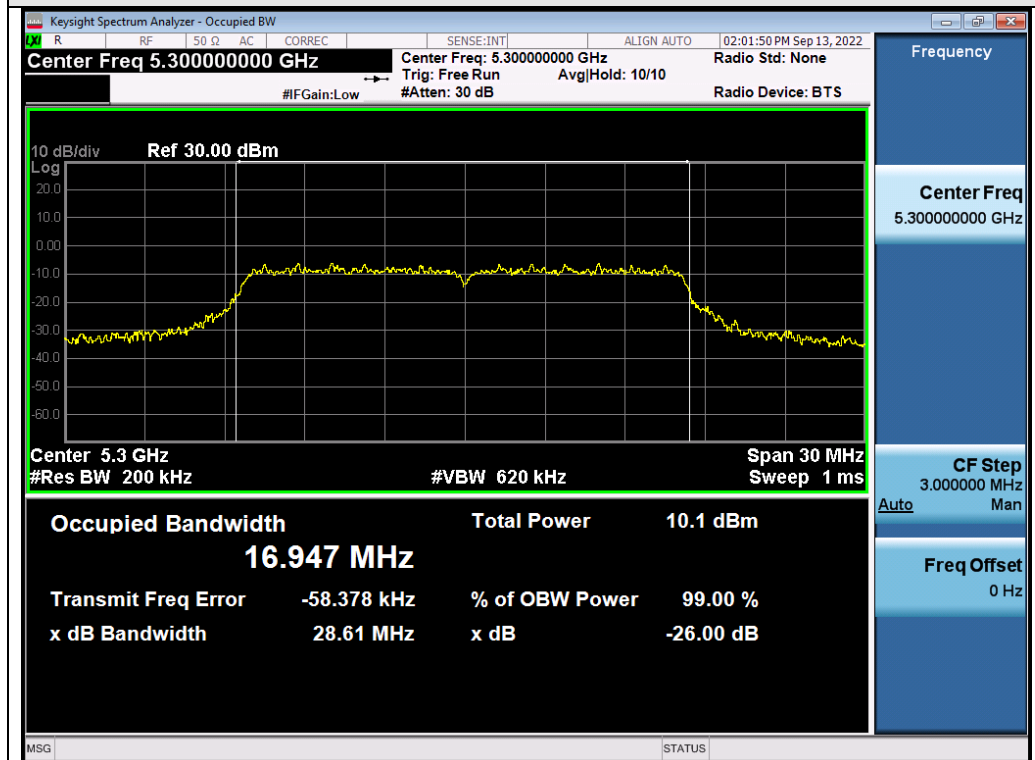


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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz

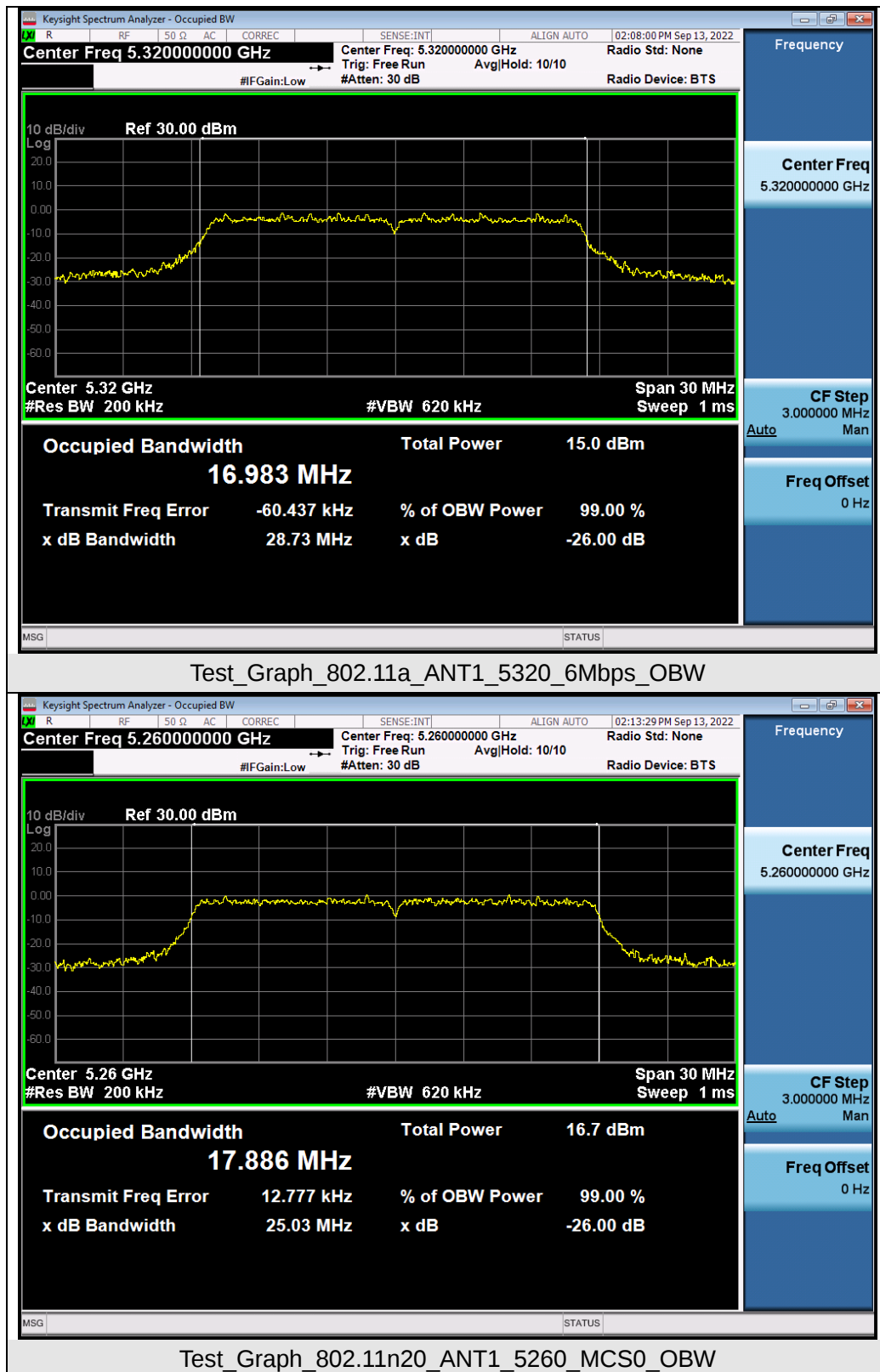


Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

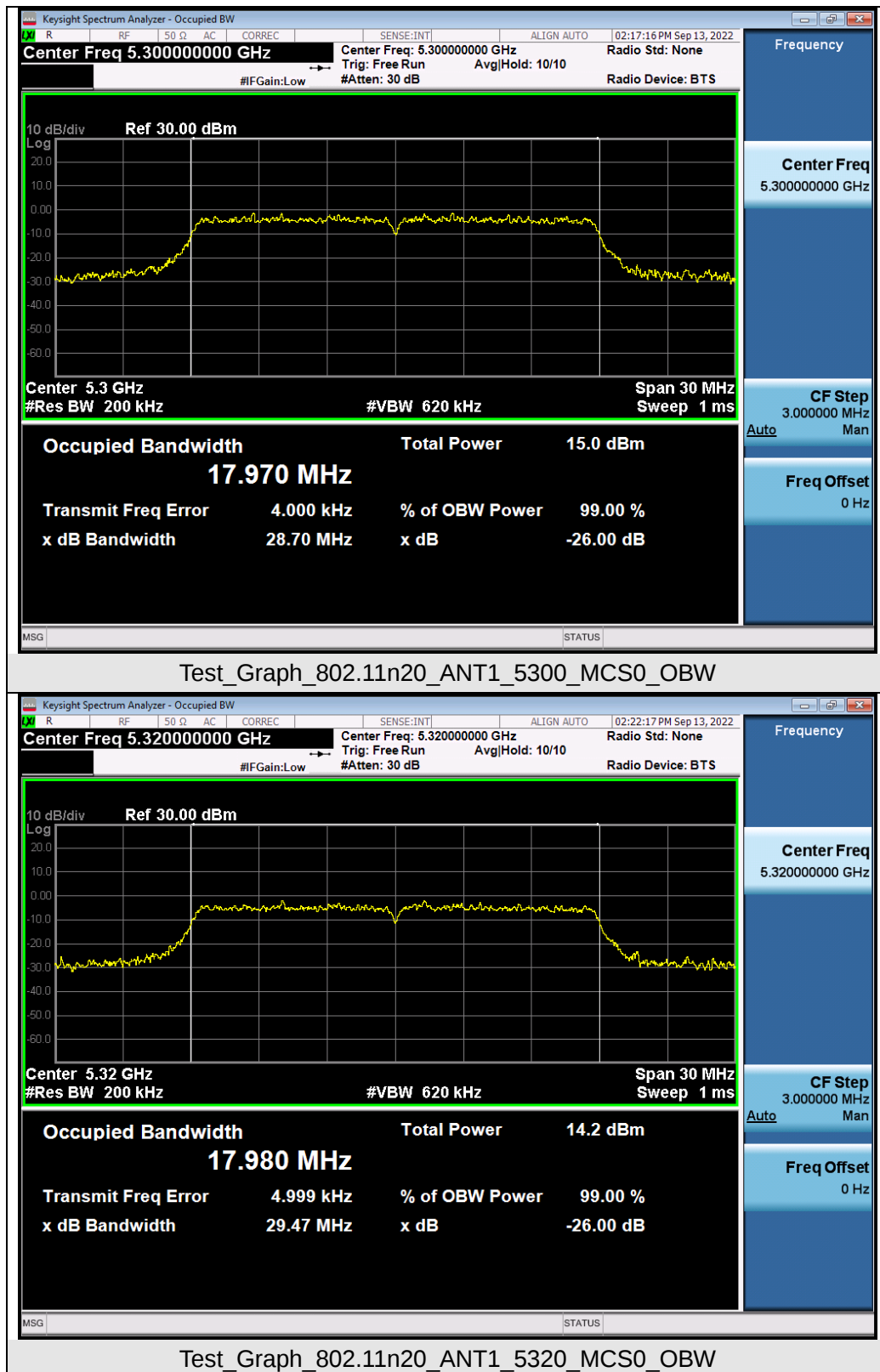


Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

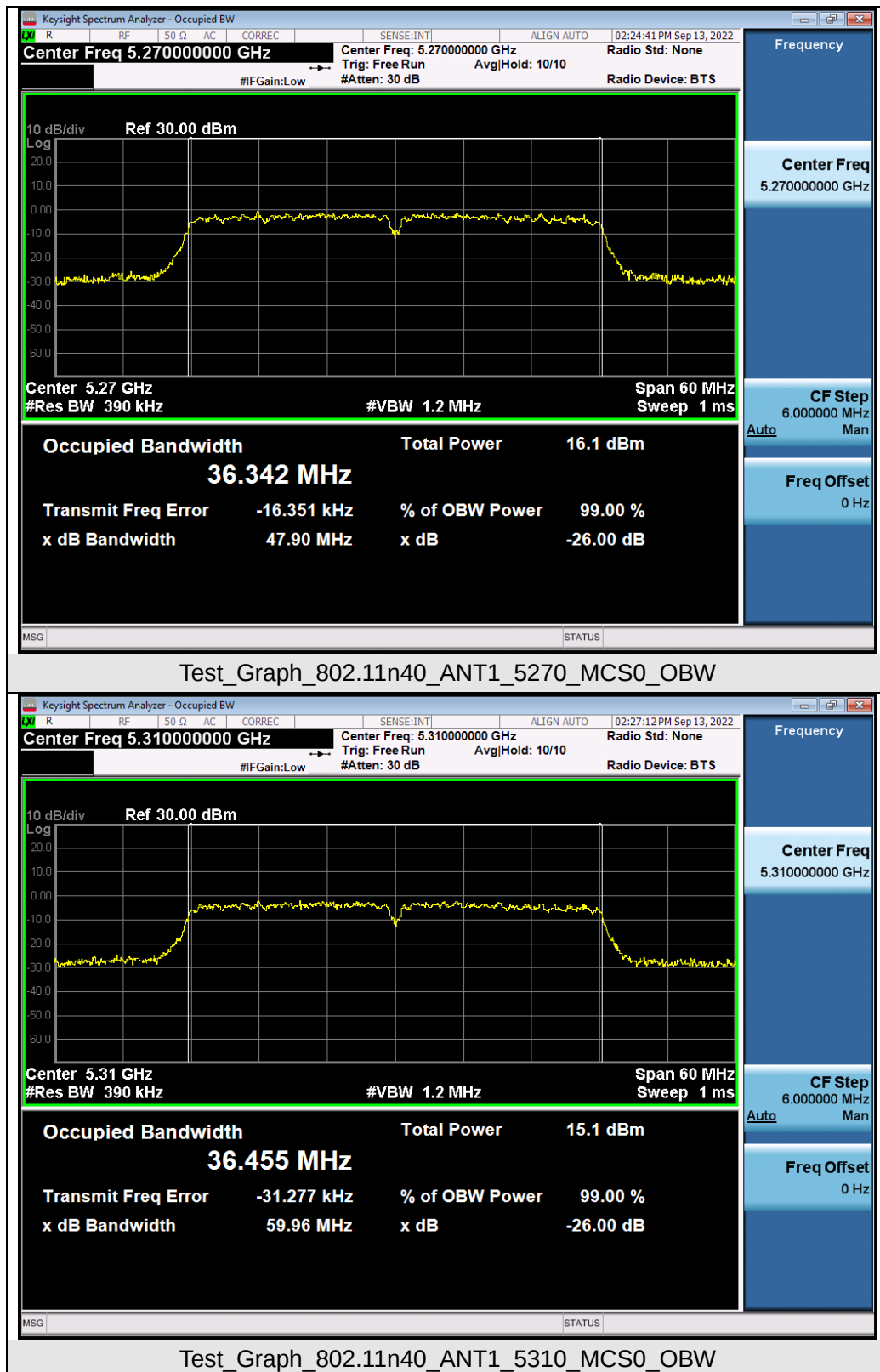
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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

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	-0.119	11	Pass
	5200	-0.470	11	Pass
	5240	-1.233	11	Pass
802.11n20	5180	-0.795	11	Pass
	5200	-0.971	11	Pass
	5240	-2.010	11	Pass
802.11n40	5190	-3.794	11	Pass
	5230	-4.524	11	Pass

Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	-0.774	11	Pass
	5300	-1.458	11	Pass
	5320	-1.982	11	Pass
802.11n20	5260	-1.427	11	Pass
	5300	-2.278	11	Pass
	5320	-2.770	11	Pass
802.11n40	5270	-4.234	11	Pass
	5310	-5.294	11	Pass

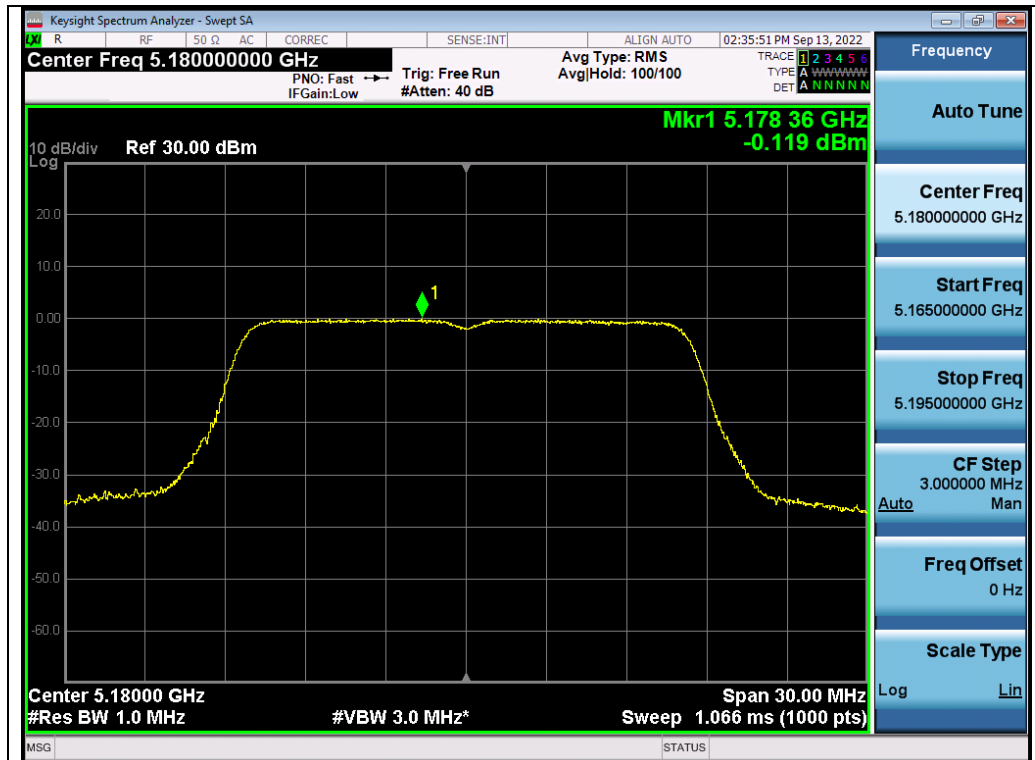
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_PSD

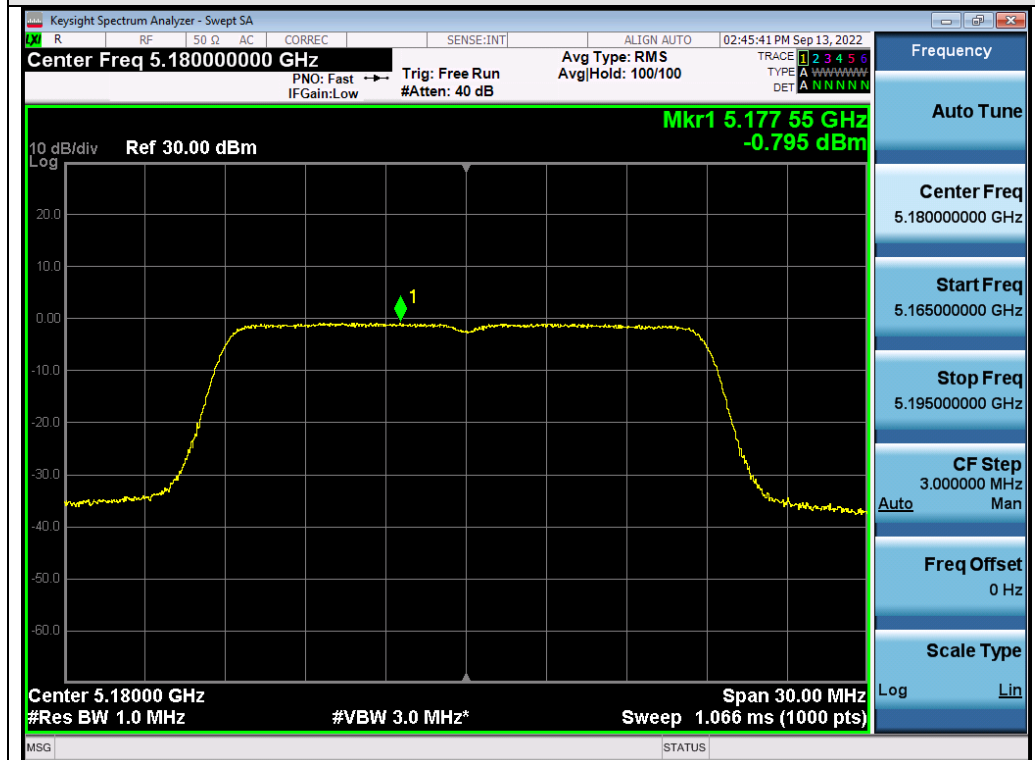


Test_Graph_802.11a_ANT1_5200_6Mbps_PSD

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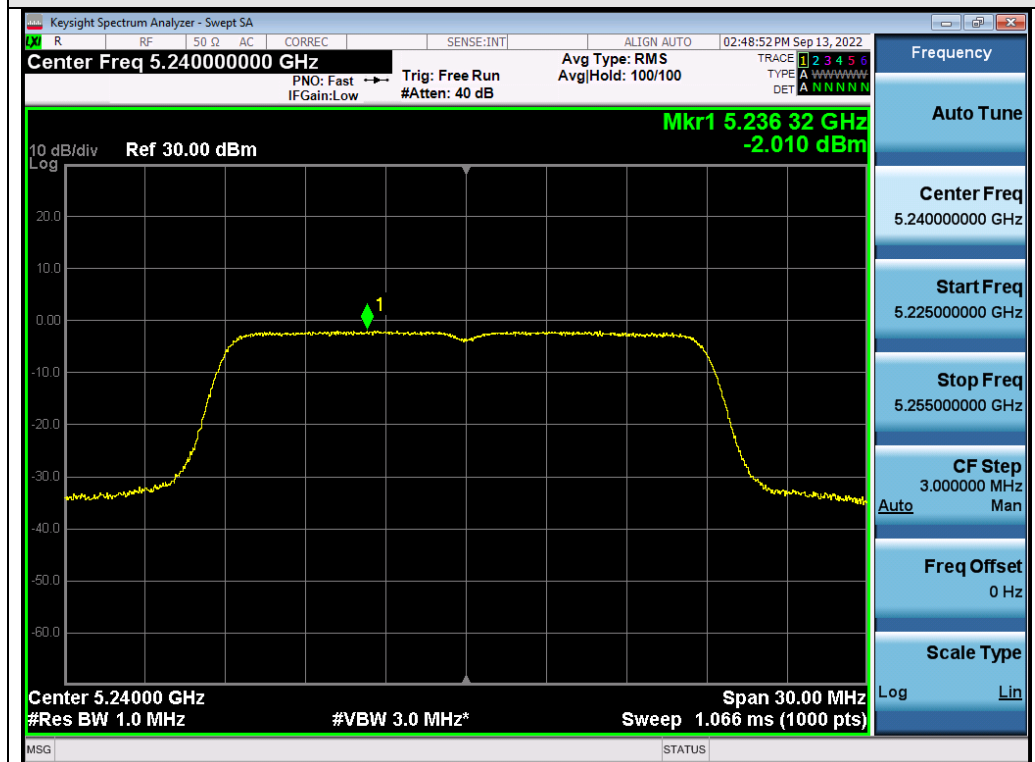


Test_Graph_802.11a_ANT1_5240_6Mbps_PSD

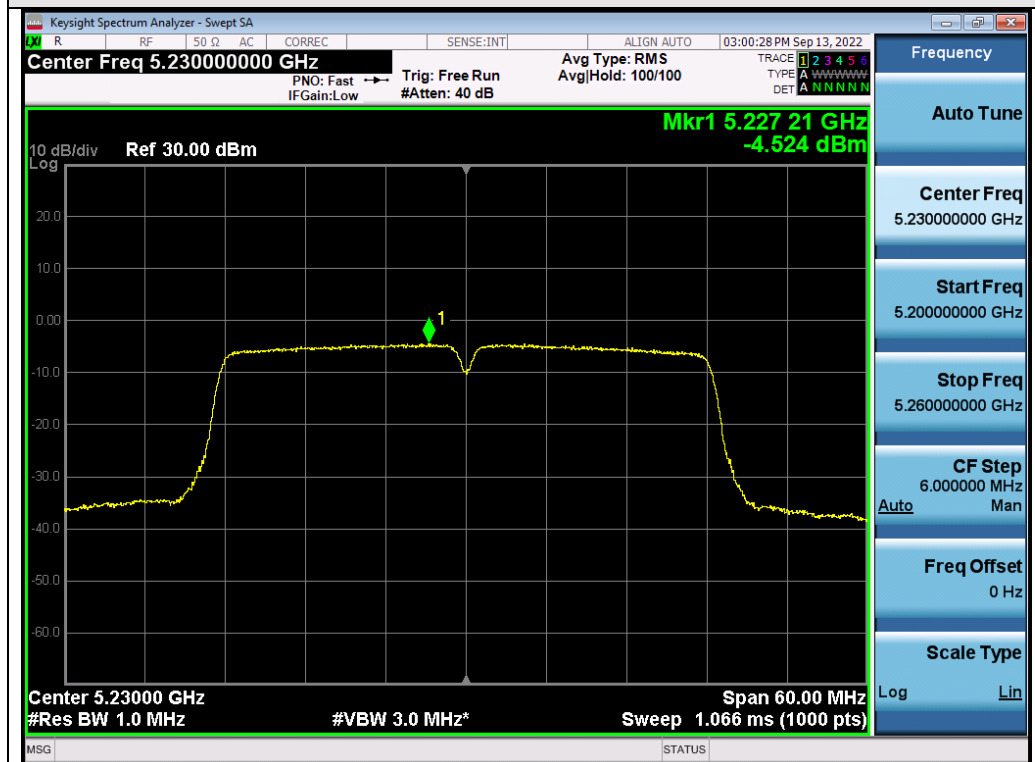


Test_Graph_802.11n20_ANT1_5180_MCS0_PSD

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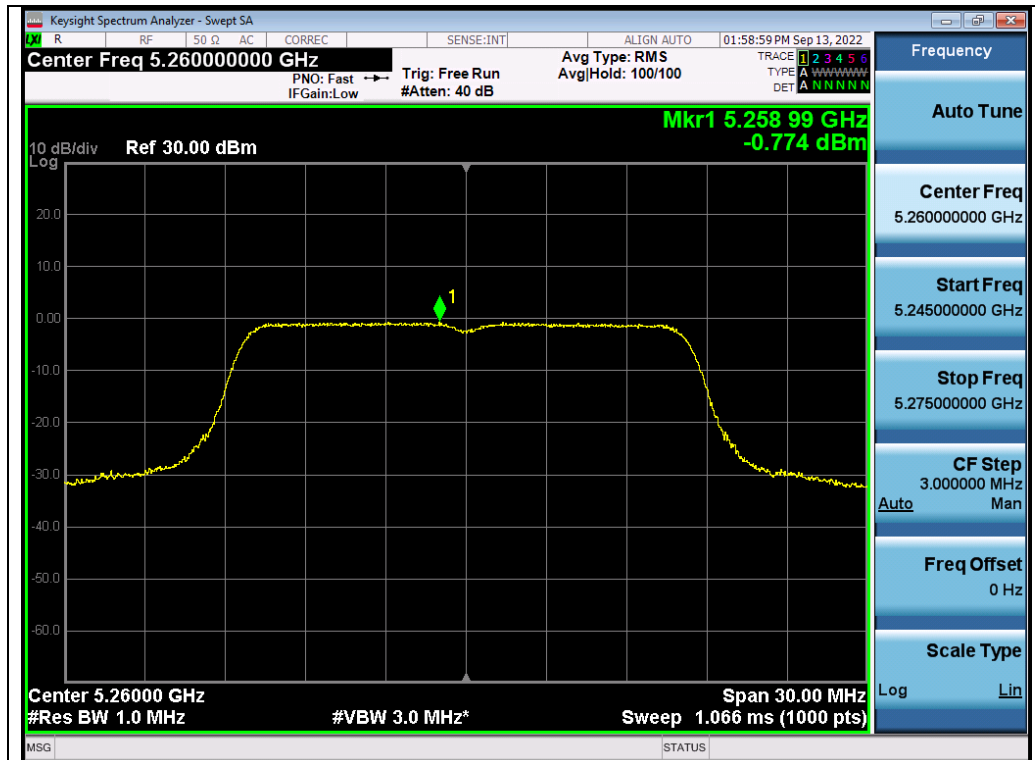


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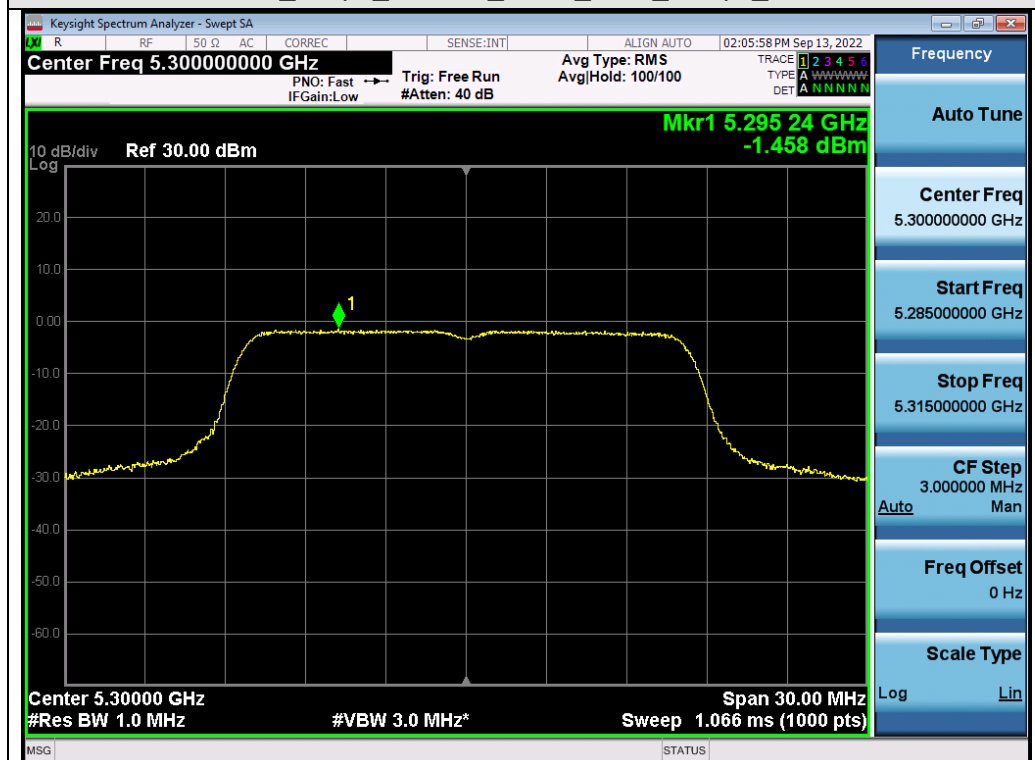


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Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

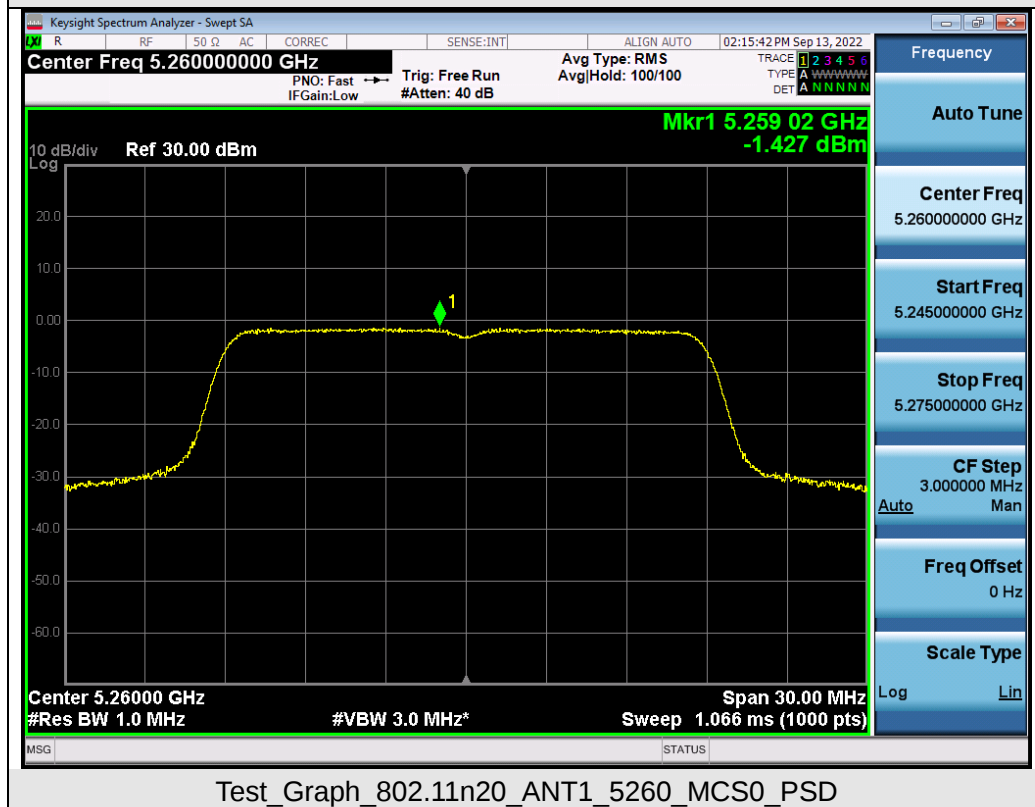


Test_Graph_802.11a_ANT1_5260_6Mbps_PSD



Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

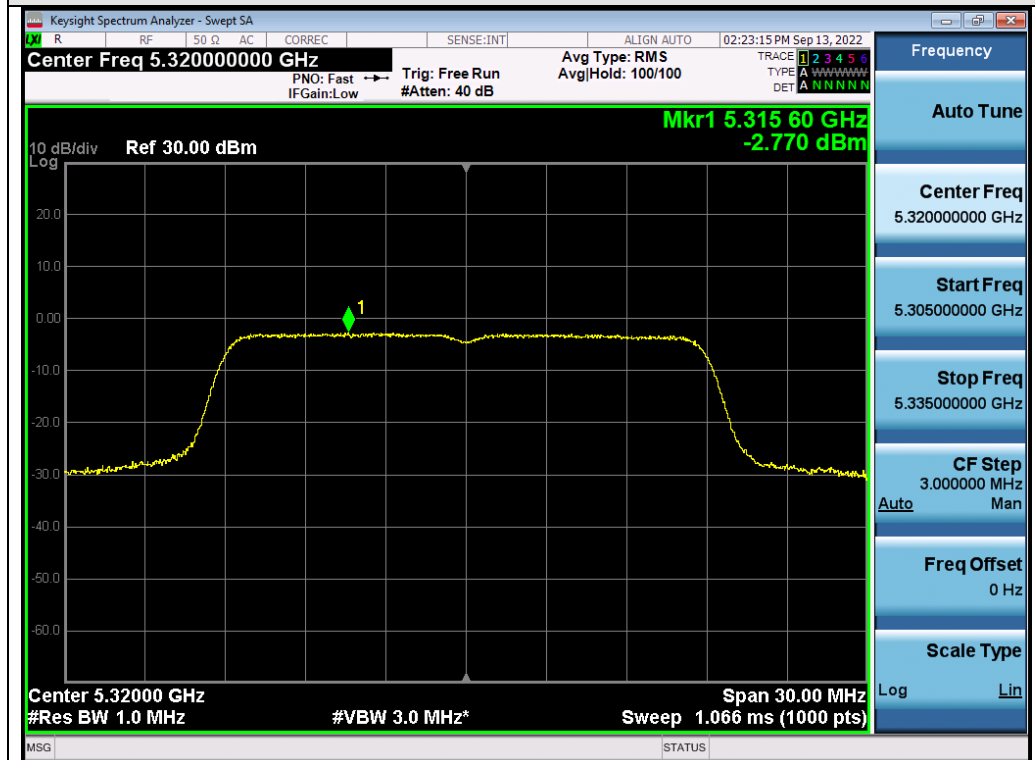
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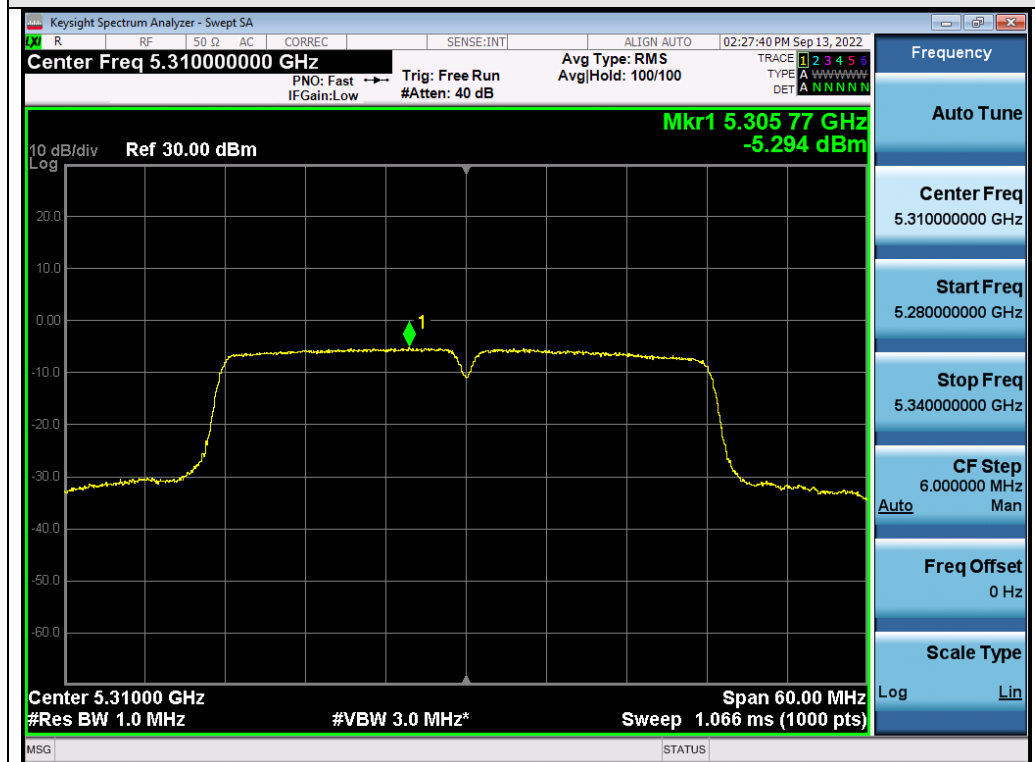


Test_Graph_802.11n20_ANT1_5300_MCS0_PSD



Test_Graph_802.11n20_ANT1_5320_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

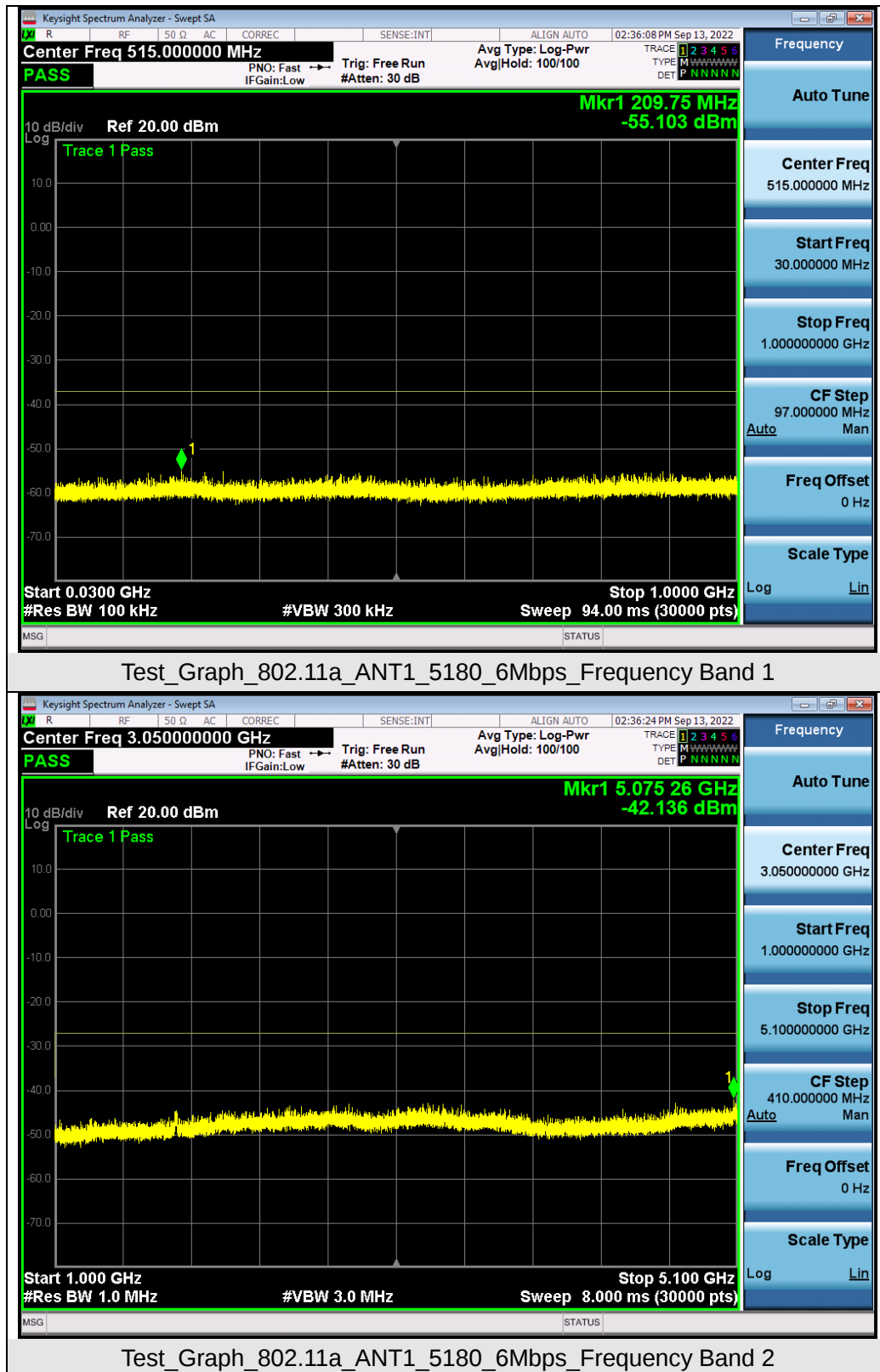
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

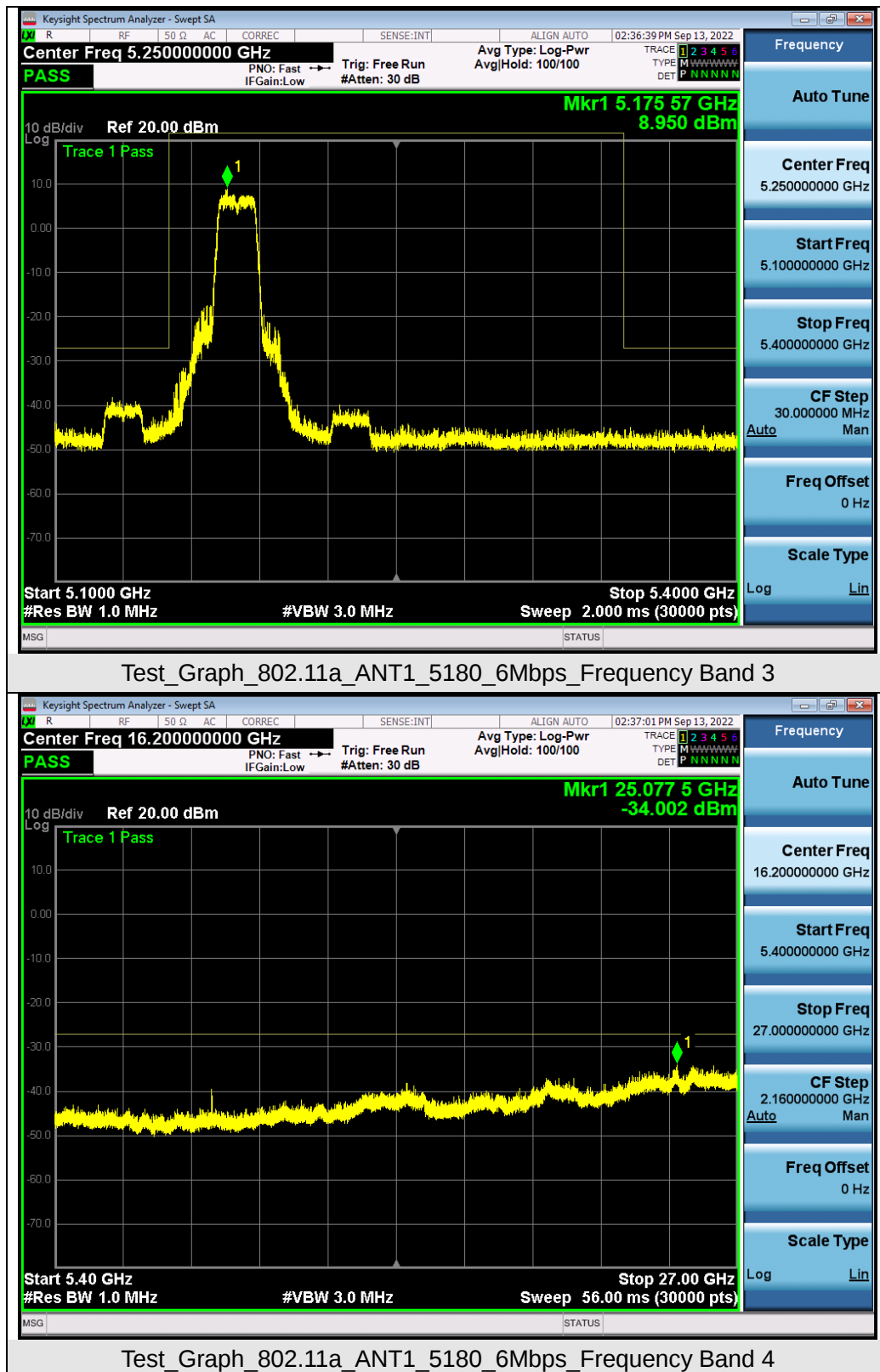
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz 5250MHz-5350MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below 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	N/A

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.

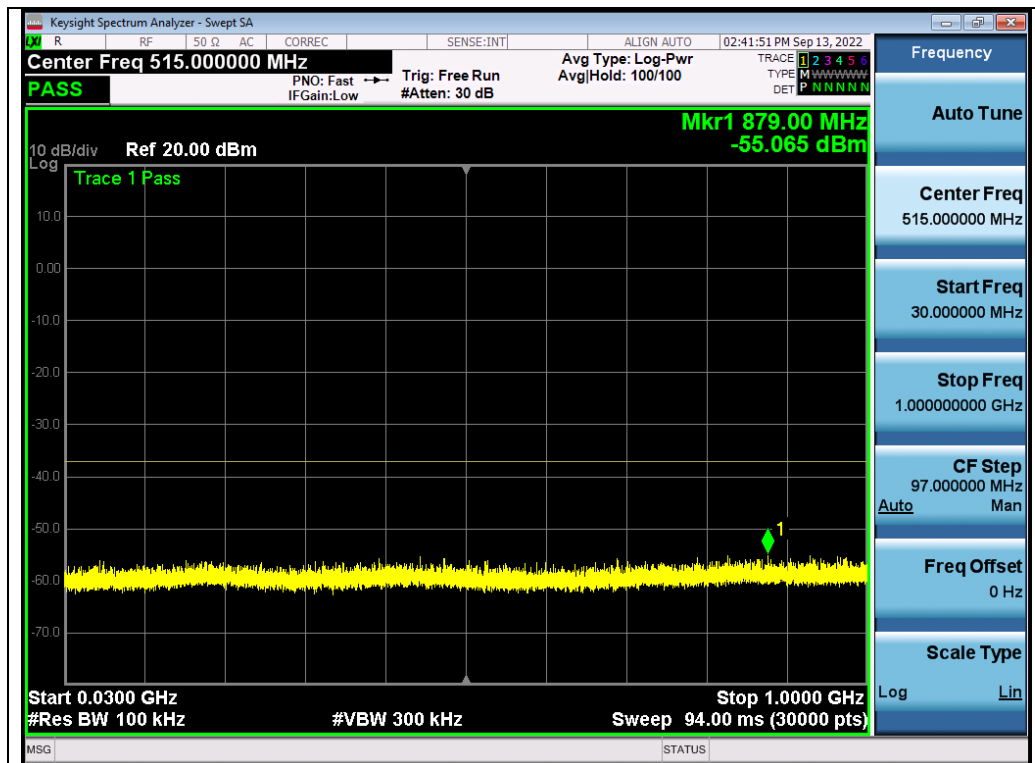
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



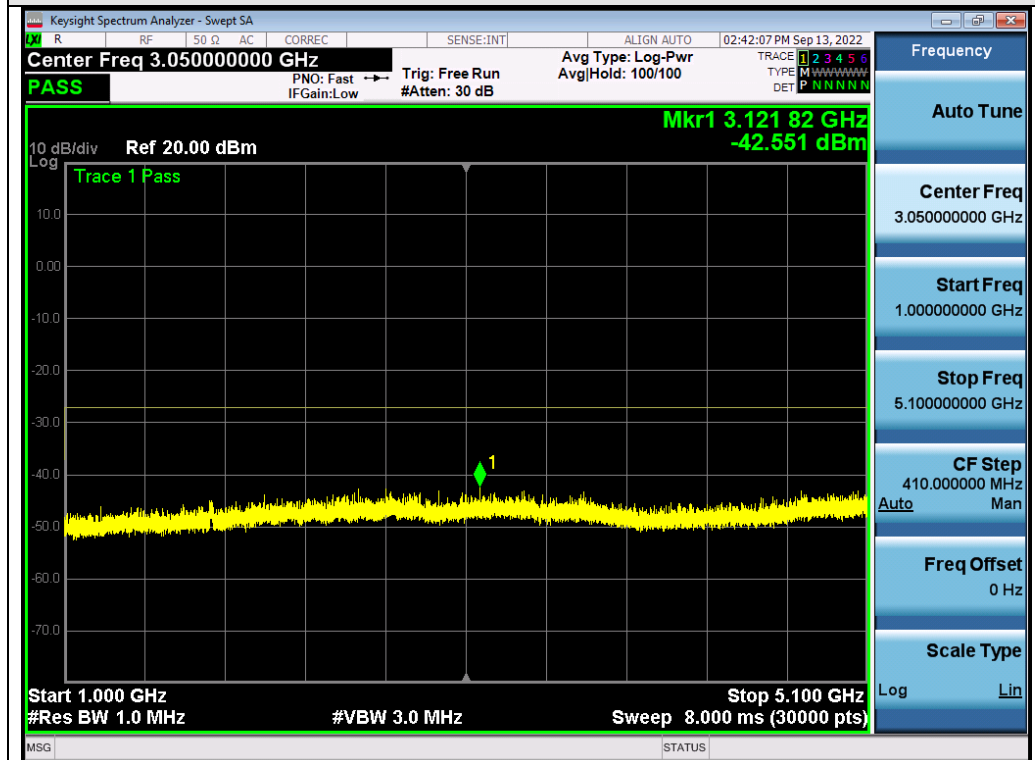
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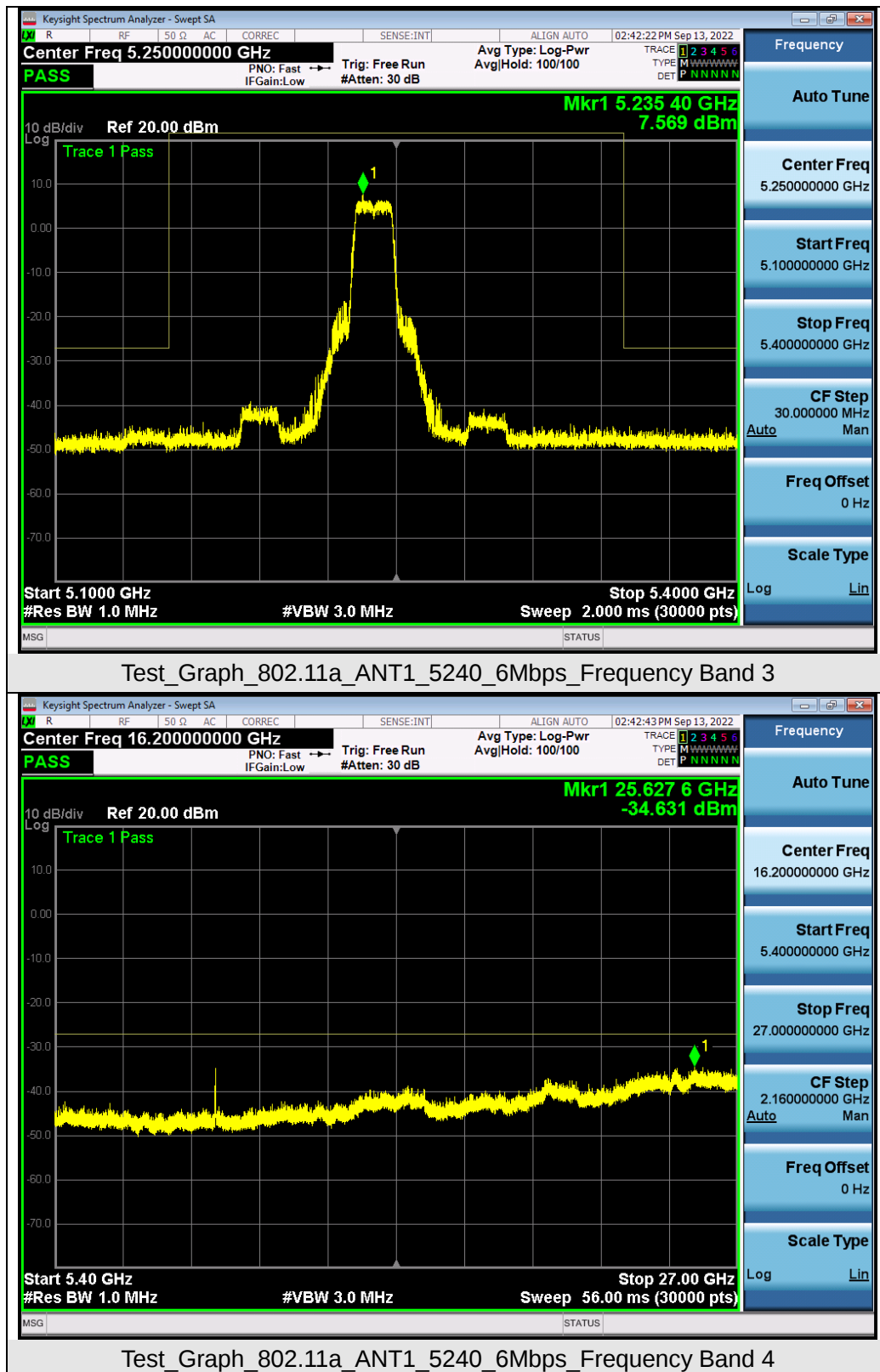


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 1

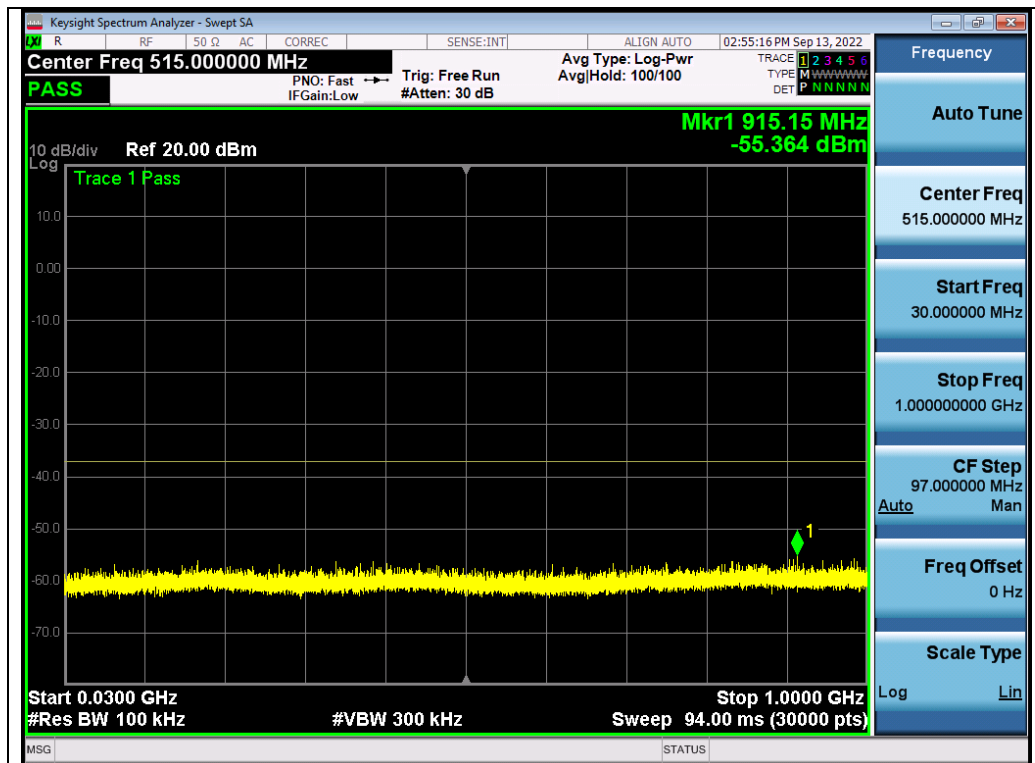


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band 2

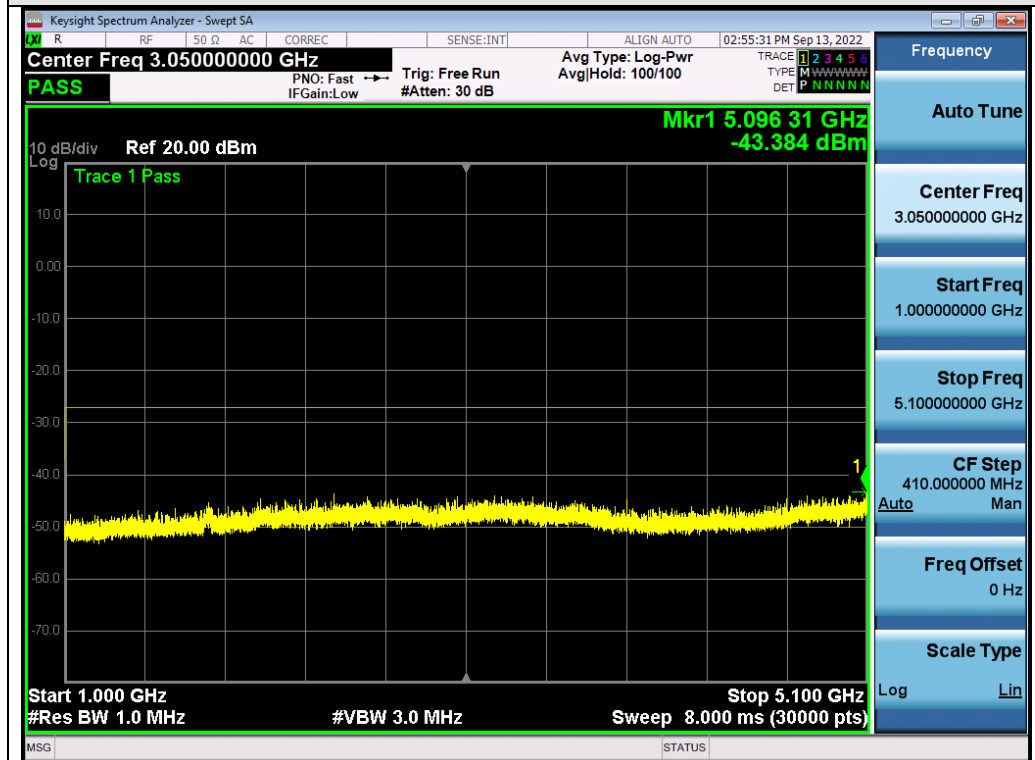
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Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 1

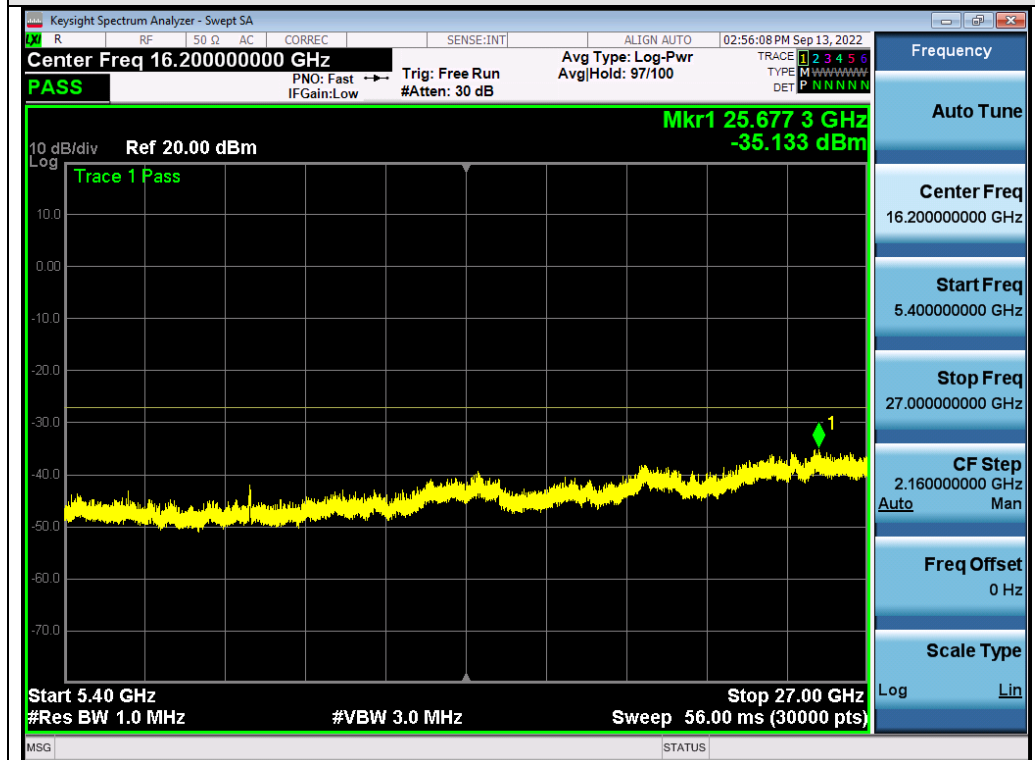


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 2

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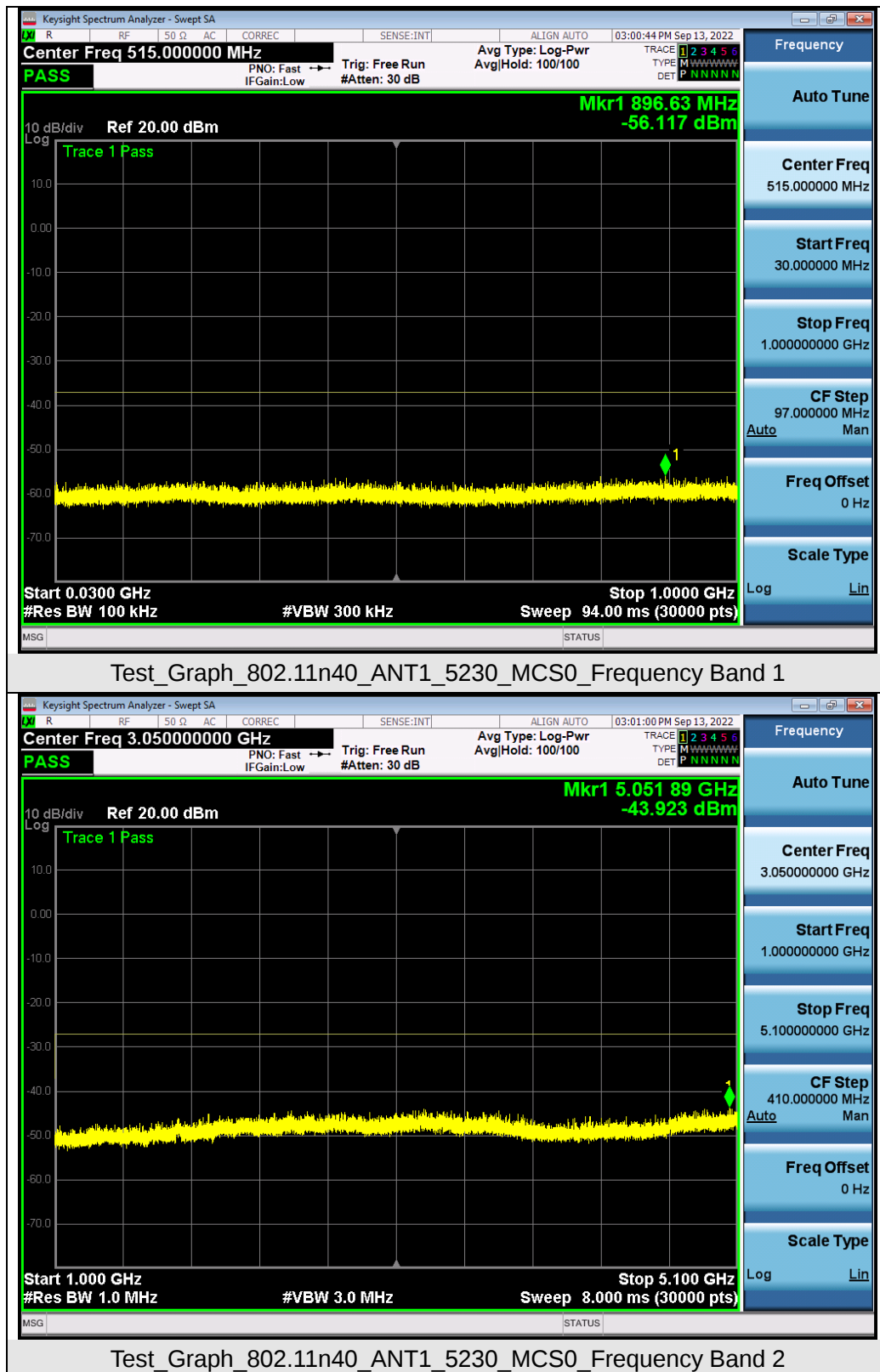


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 3

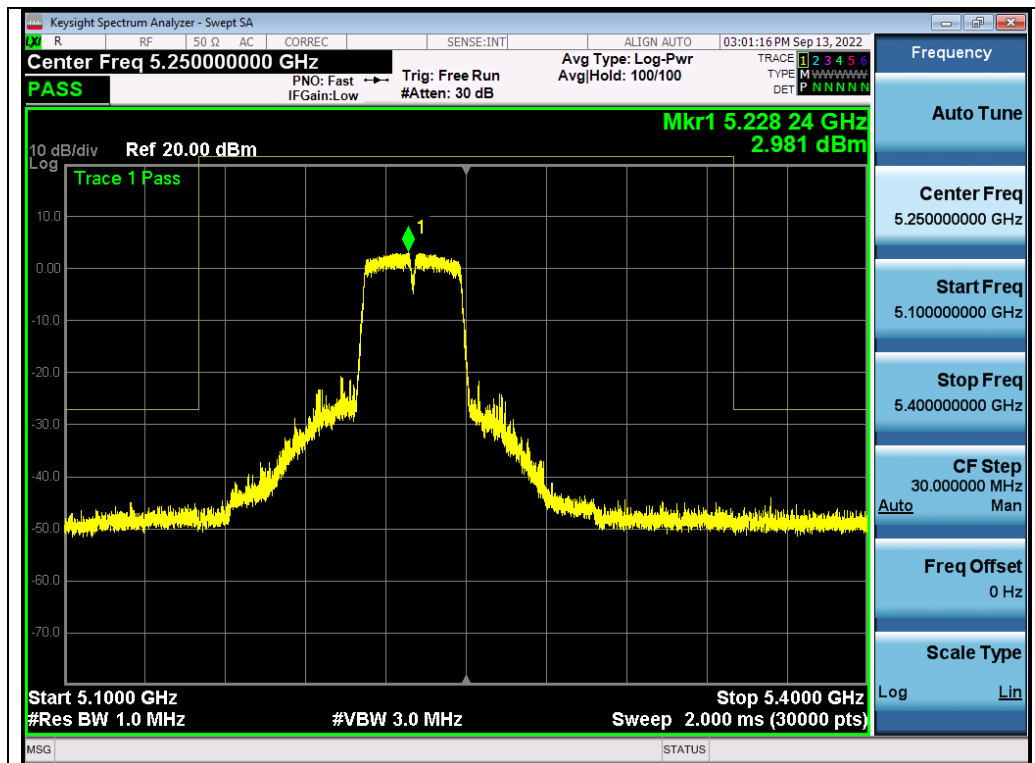


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band 4

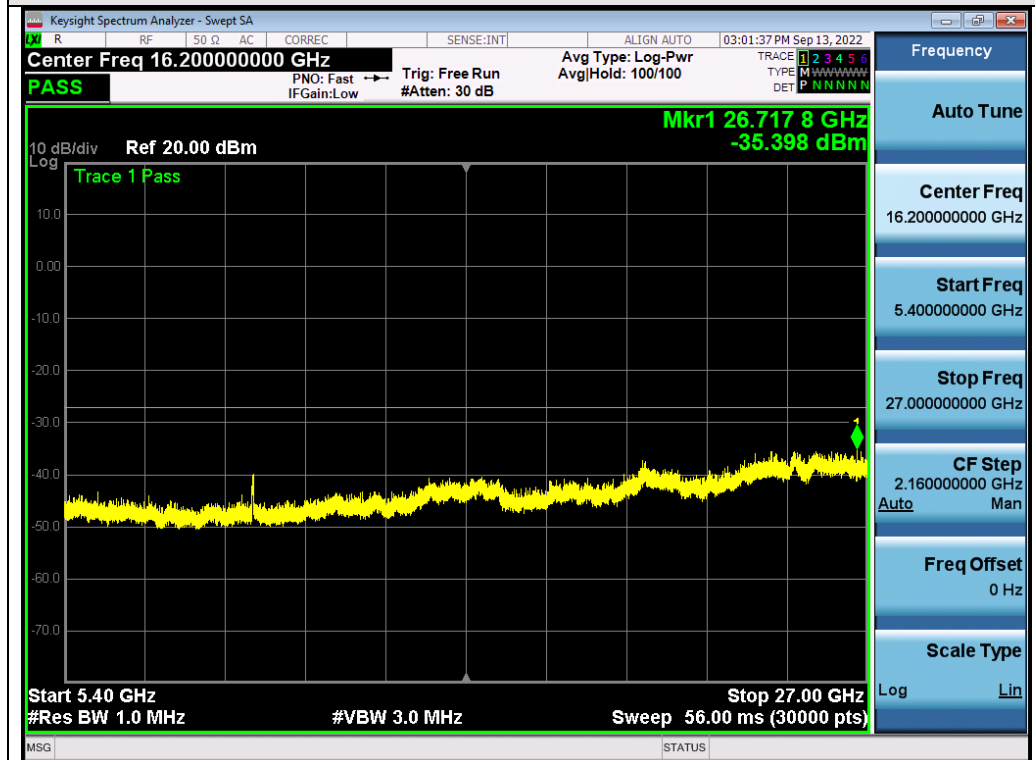
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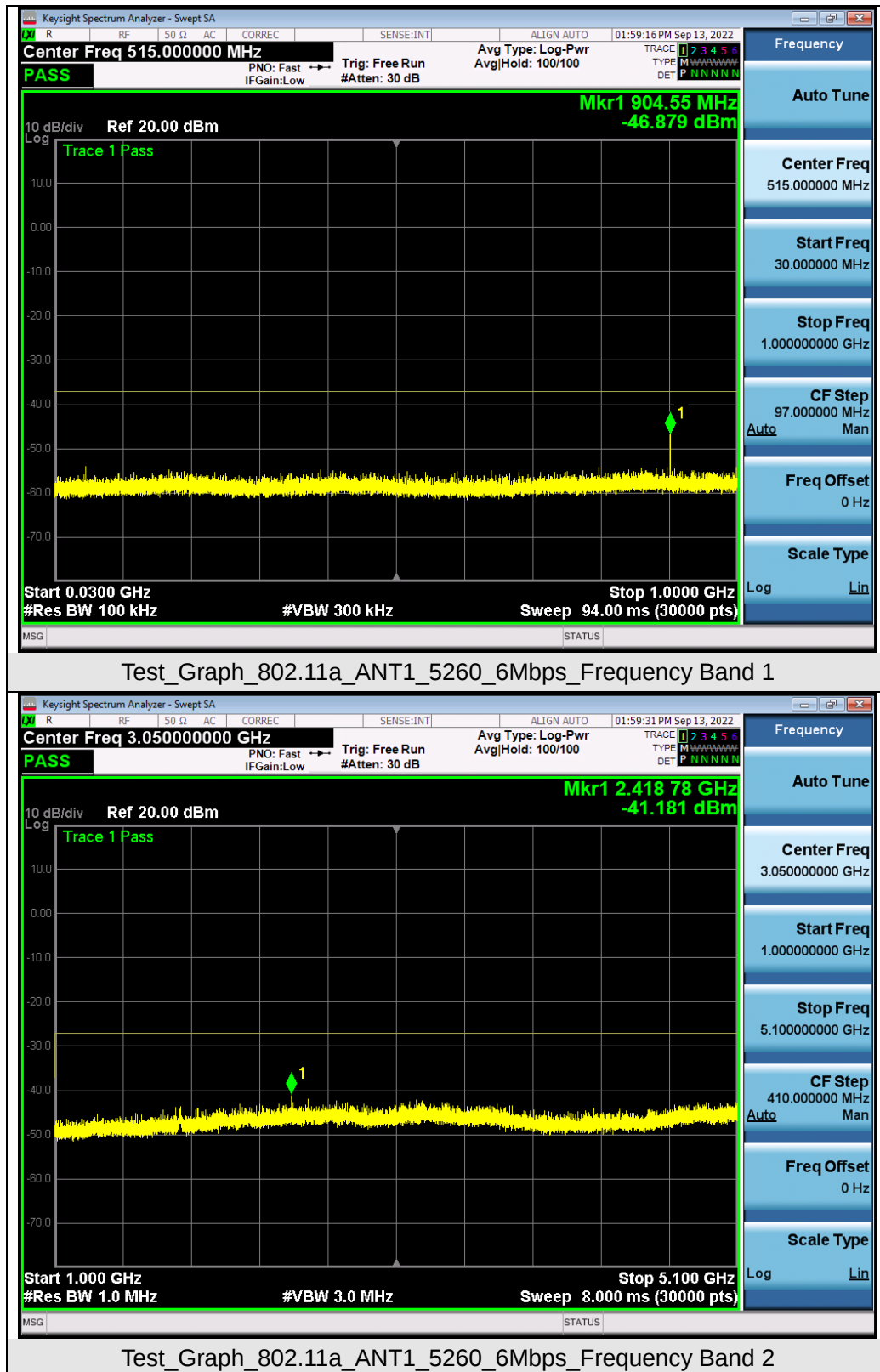
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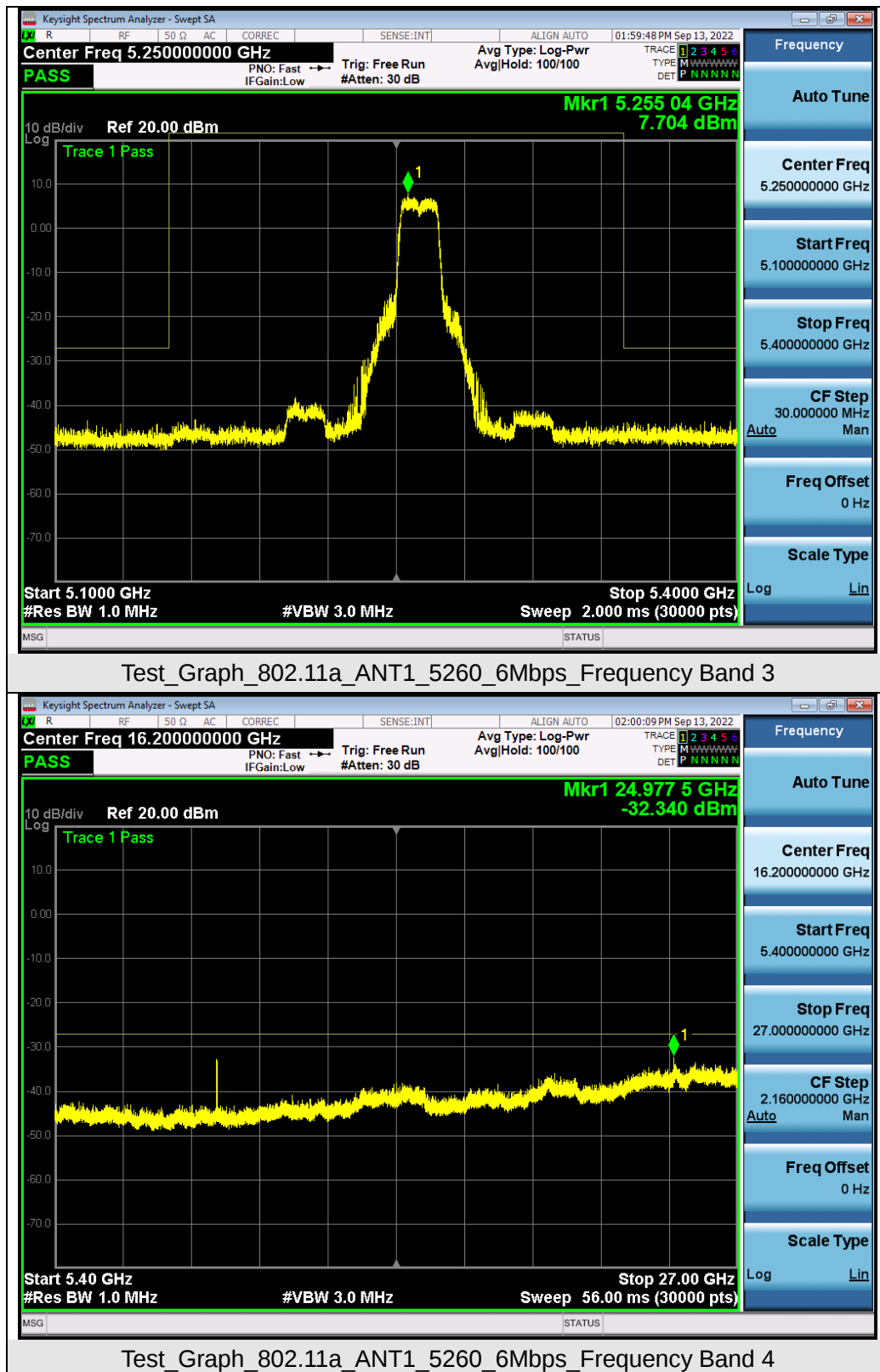
Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band 4

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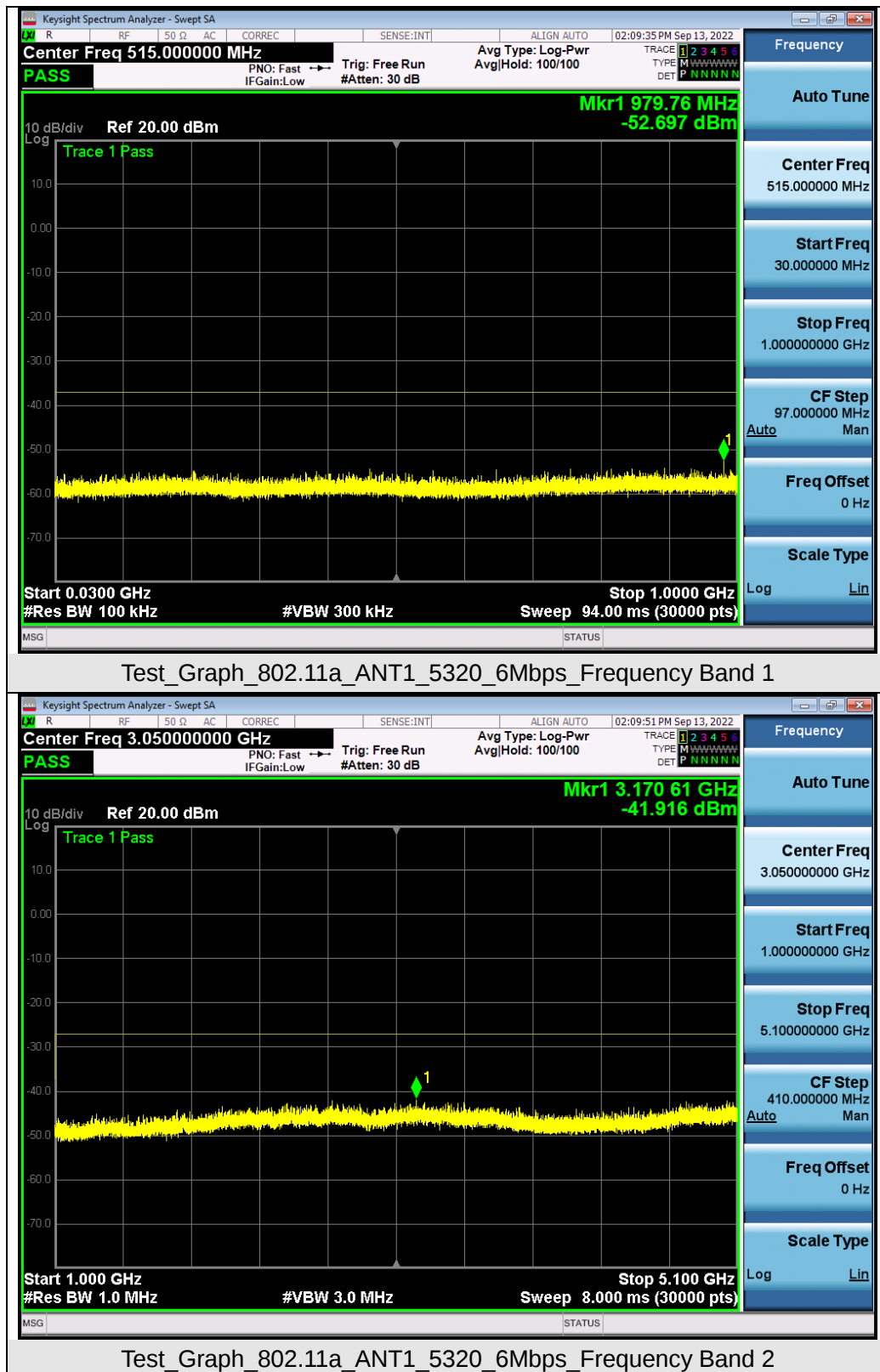
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



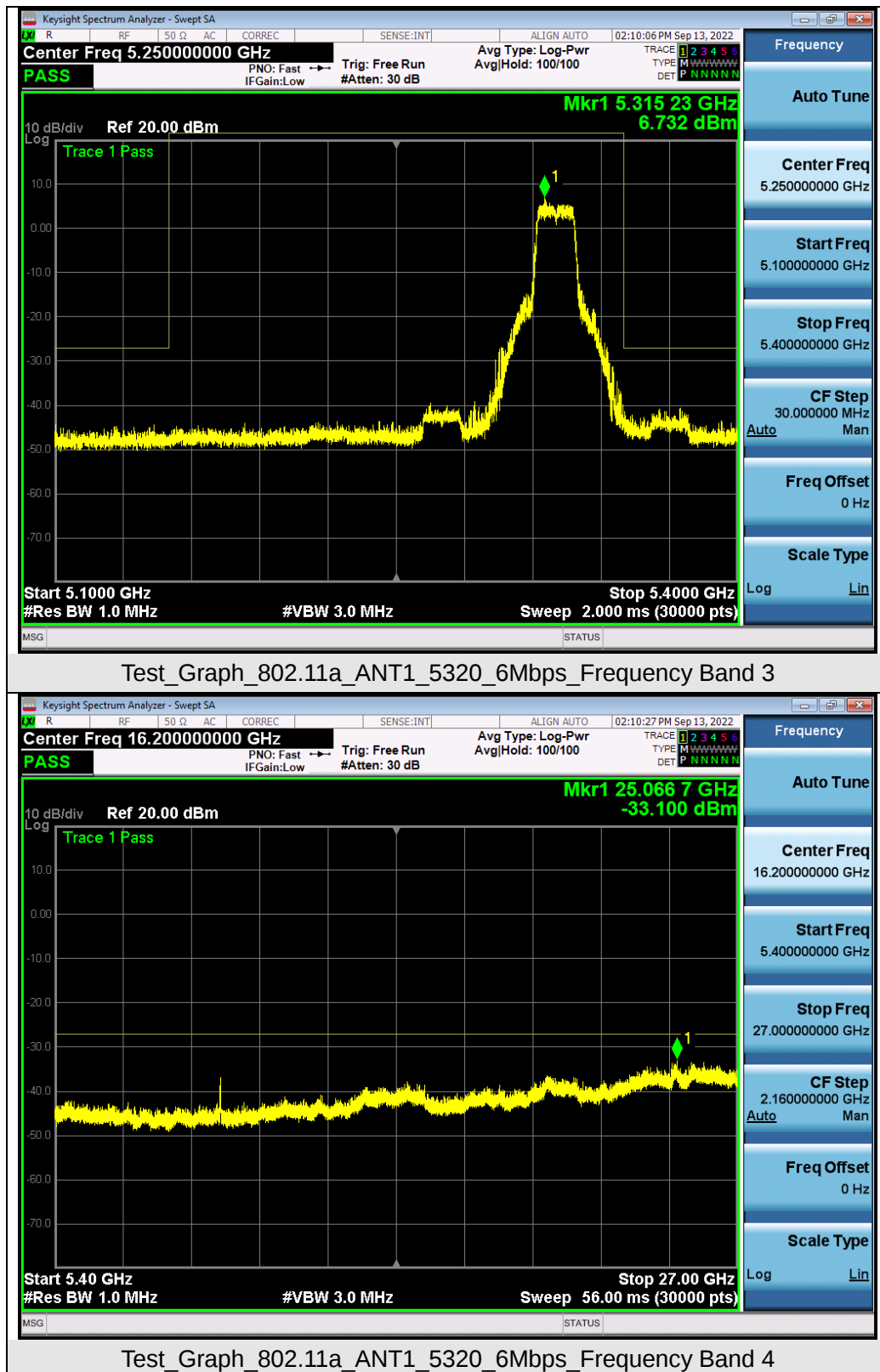
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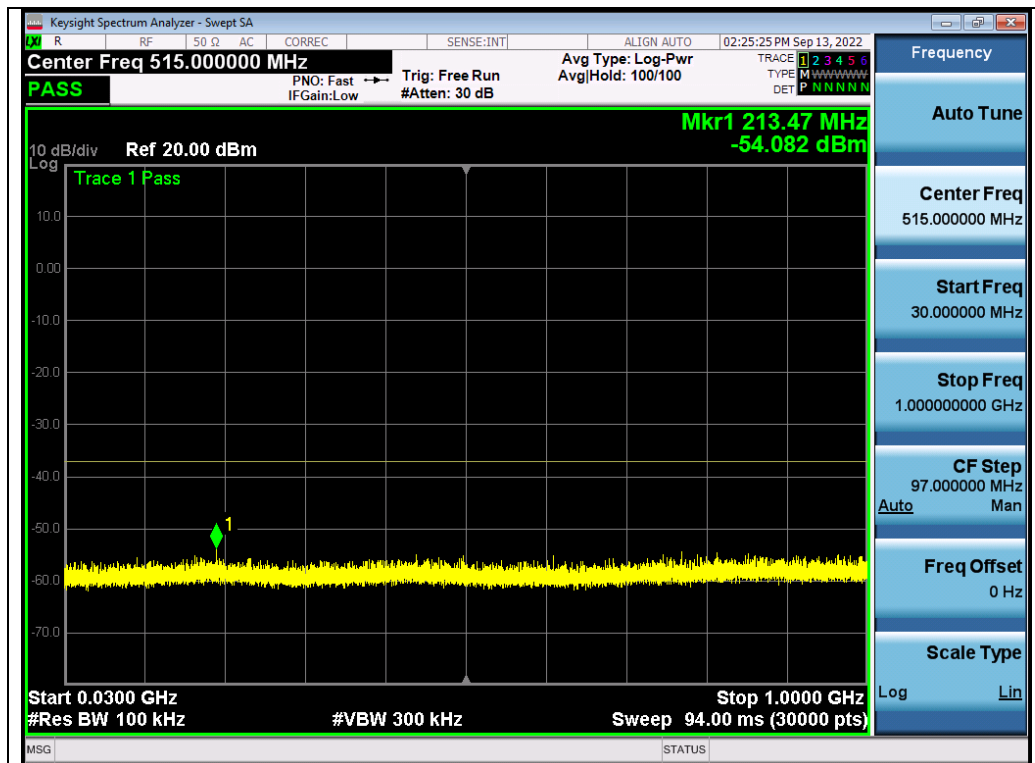
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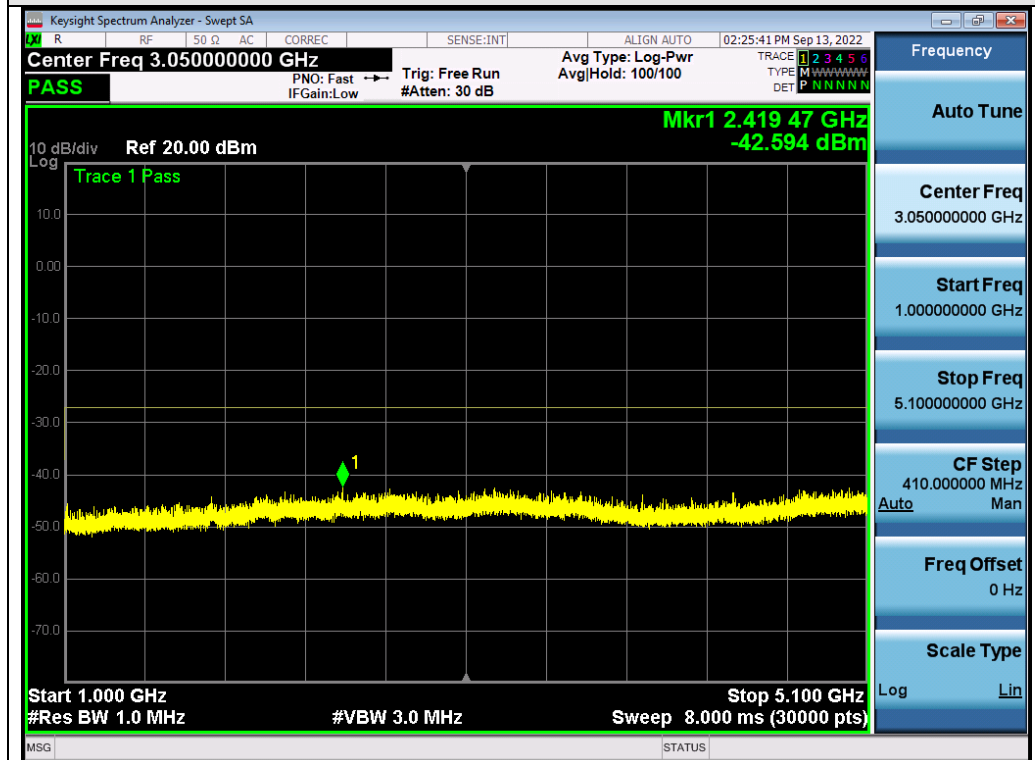
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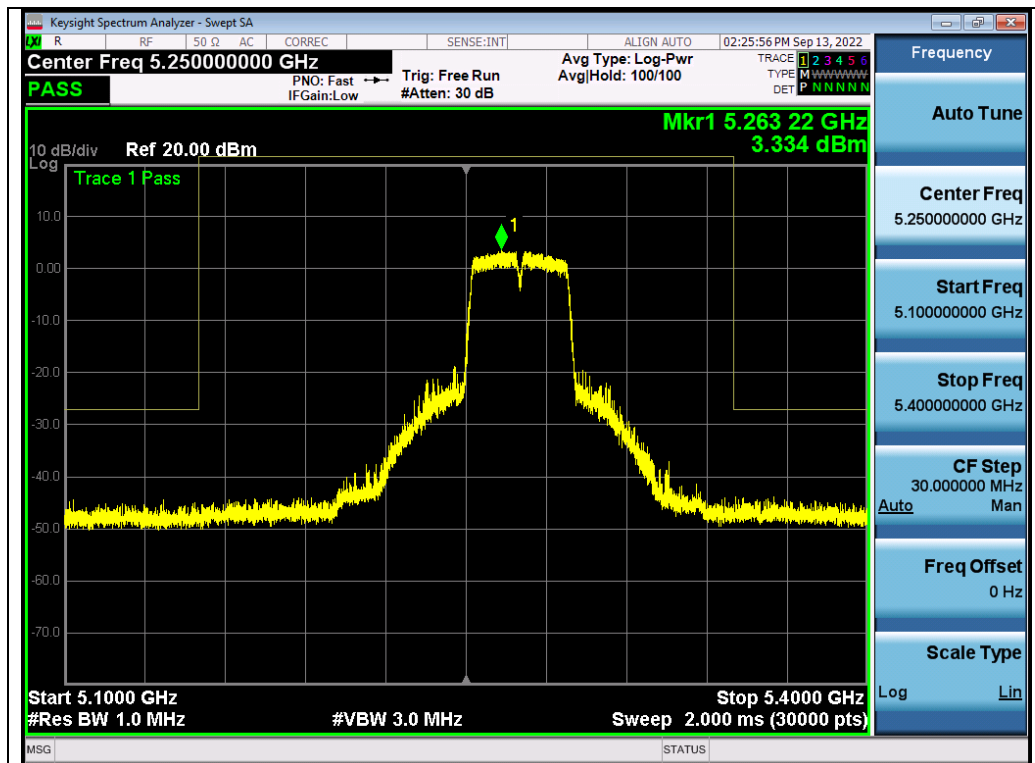


Test_Graph_802.11n40_ANT1_5270_MCS0_Frequency Band 1

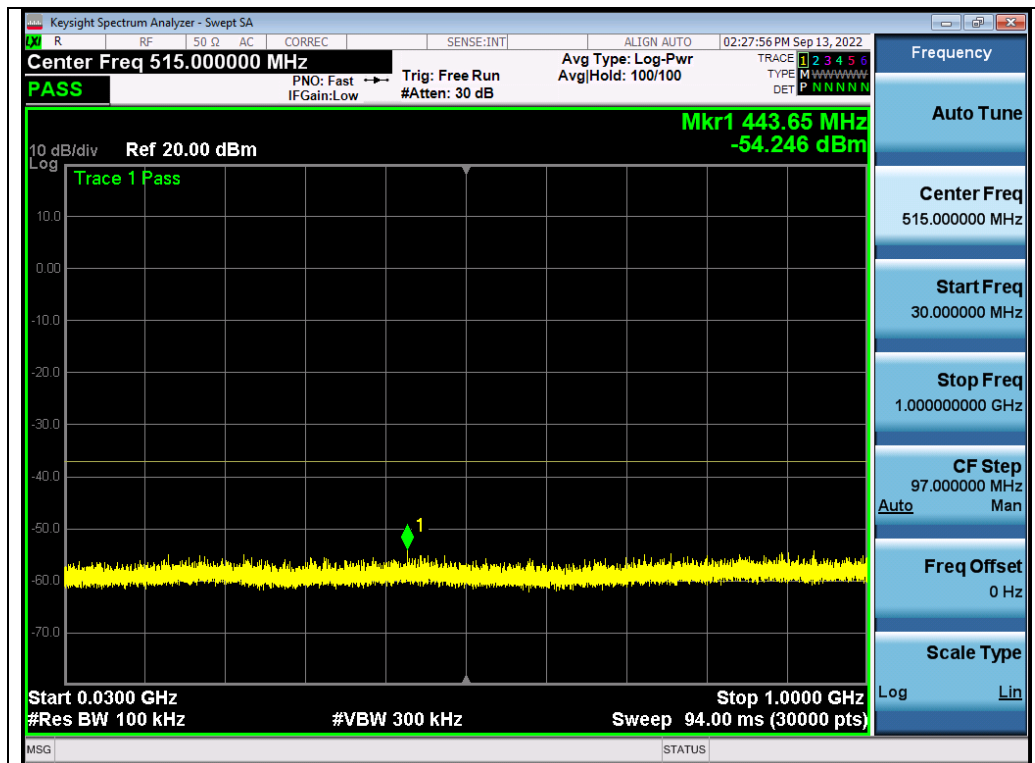


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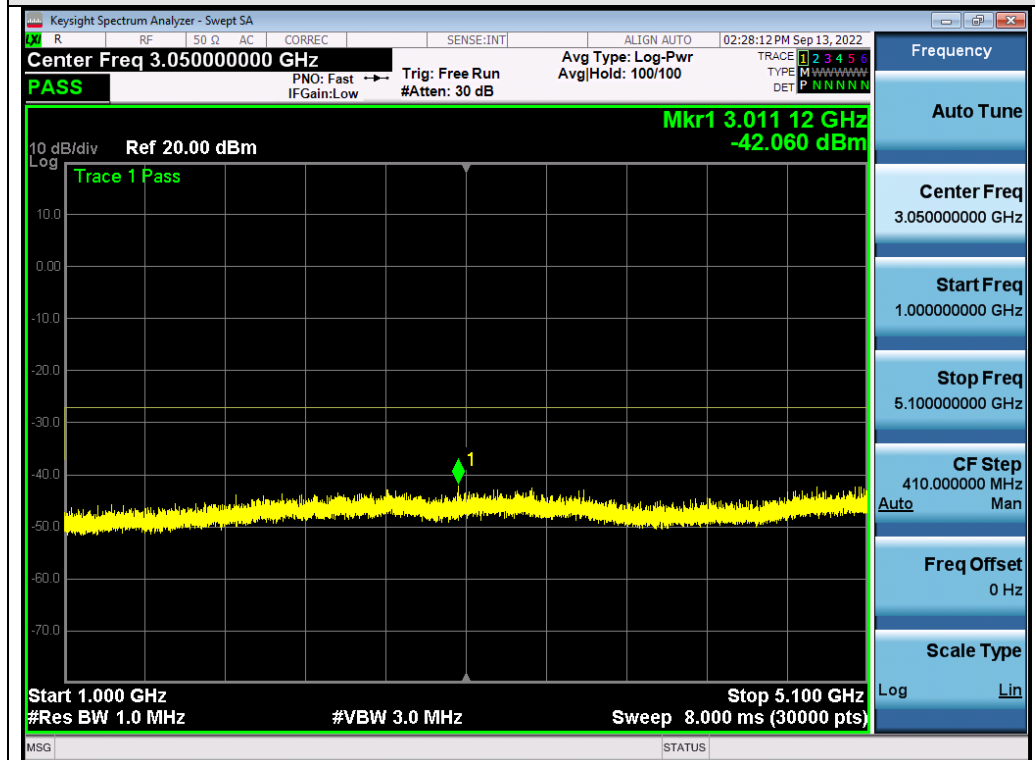
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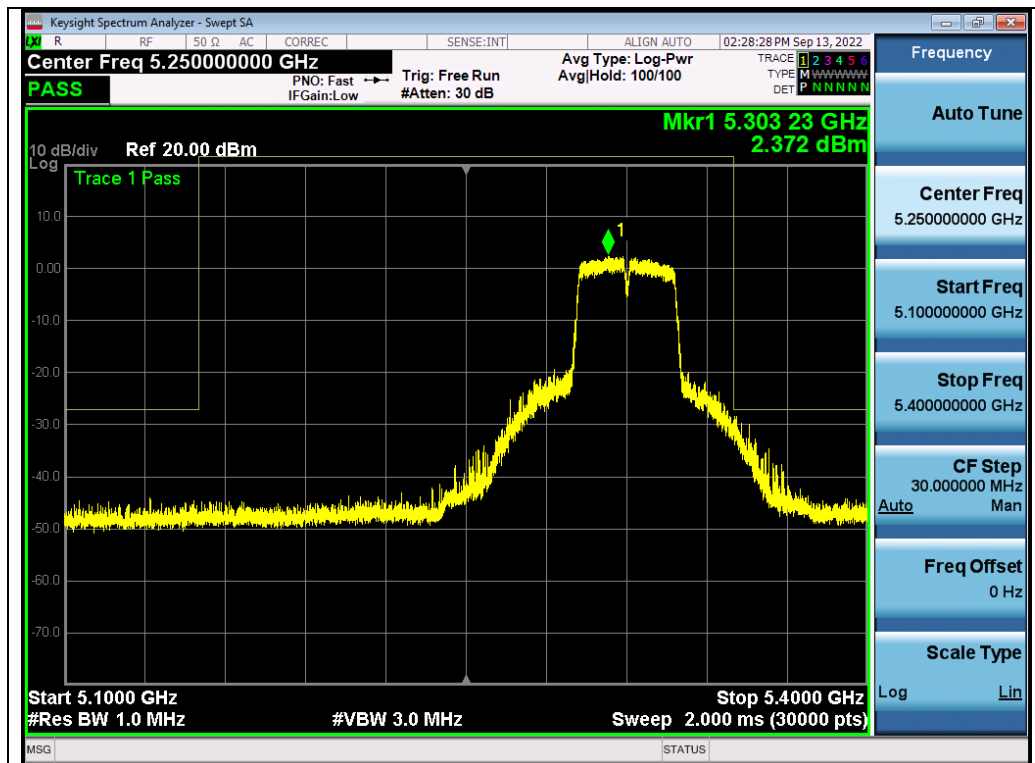


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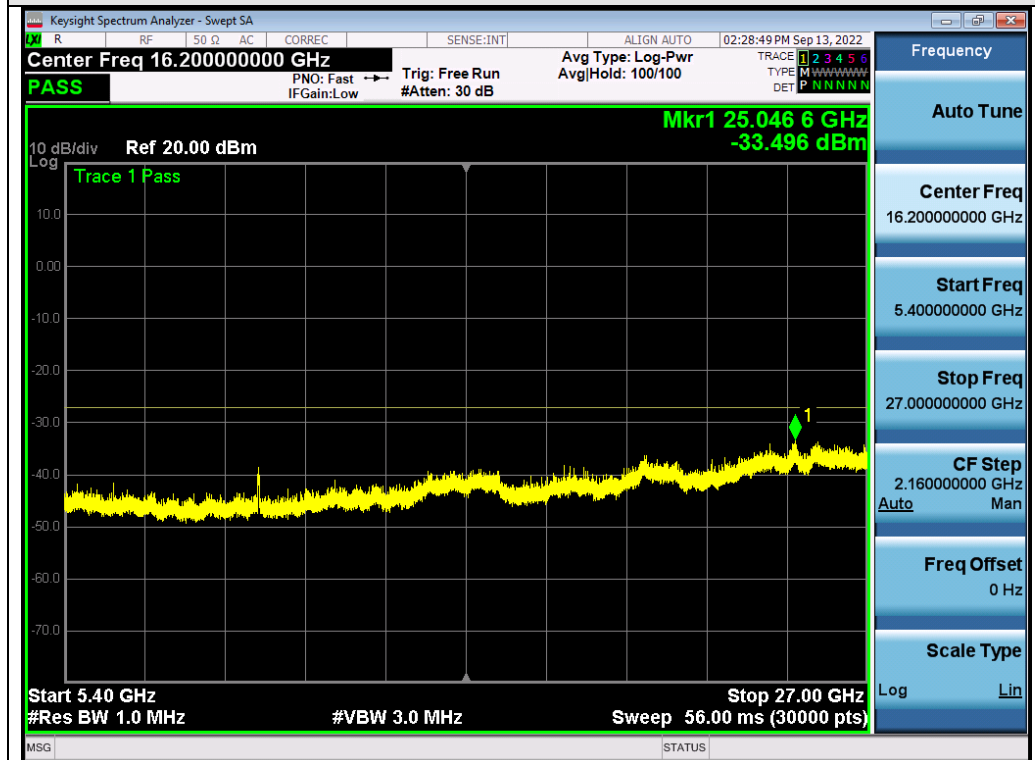


Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 2

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Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 3



Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 4

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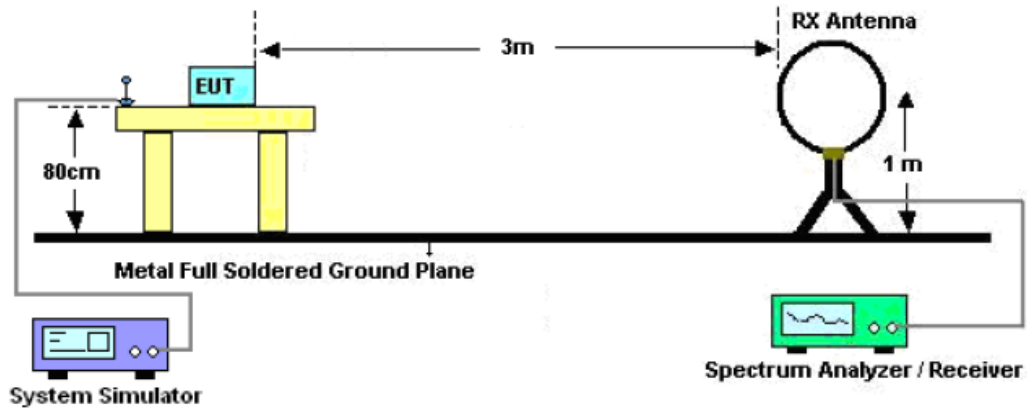
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

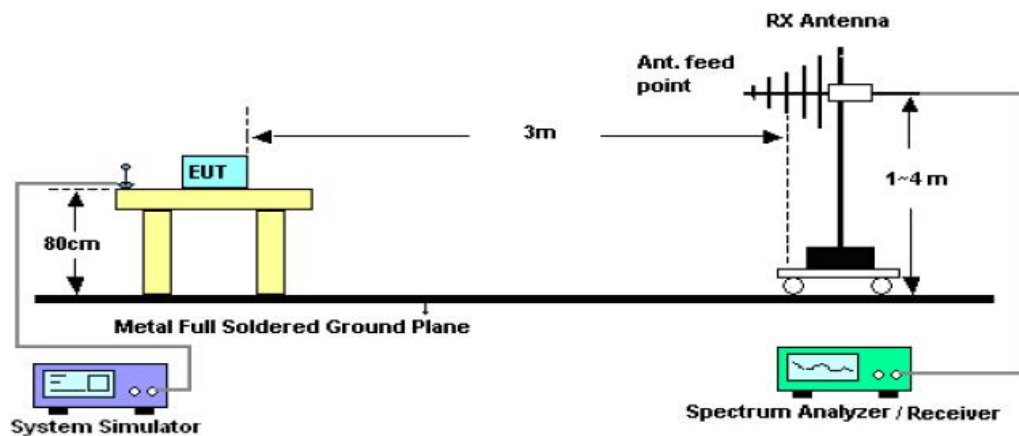
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

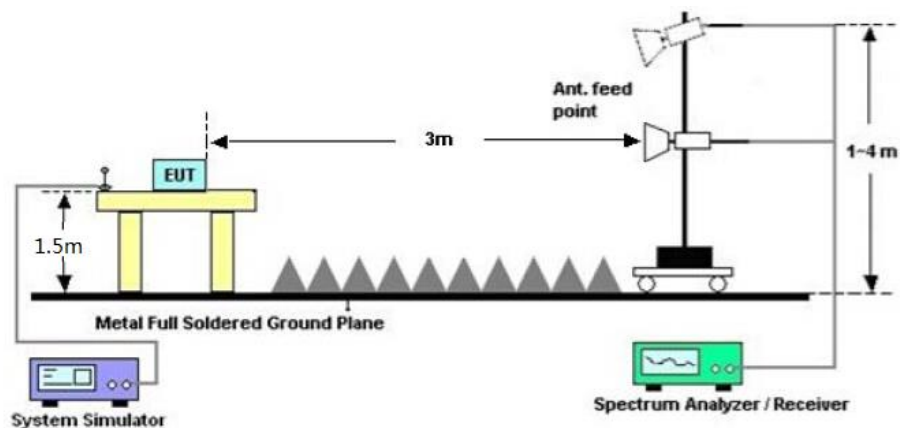
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

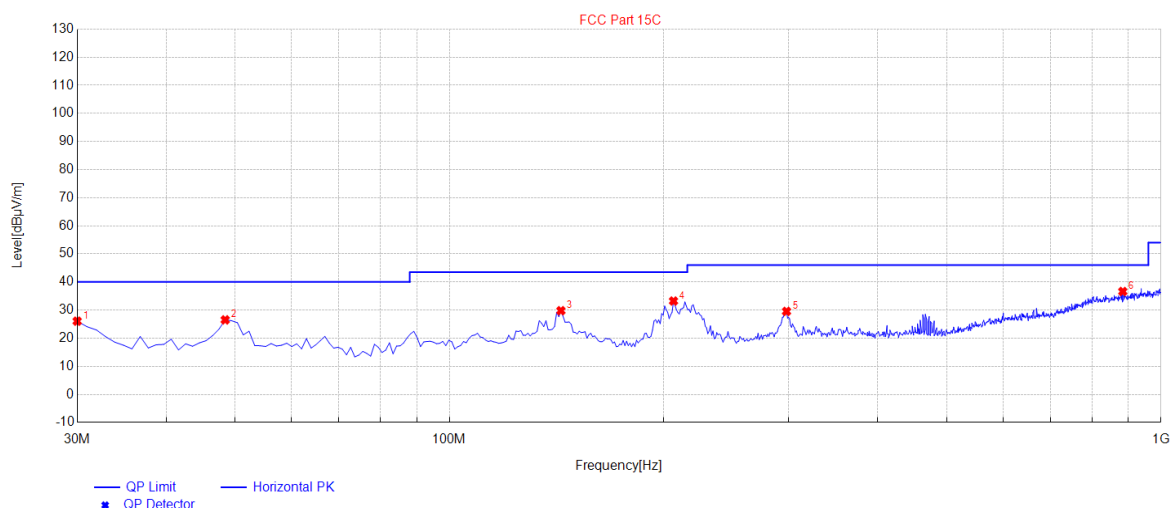
11.4. TEST RESULT

Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated emission from 30MHz to 1000MHz

EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30	26.05	12.85	40.00	13.95	100	247	Horizontal
2	48.43	26.51	11.53	40.00	13.49	100	115	Horizontal
3	143.49	29.78	17.36	43.50	13.72	100	128	Horizontal
4	206.54	33.22	11.81	43.50	10.28	100	135	Horizontal
5	297.72	29.53	14.88	46.00	16.47	100	275	Horizontal
6	883.6	36.61	30.35	46.00	9.39	100	183	Horizontal

RESULT: PASS

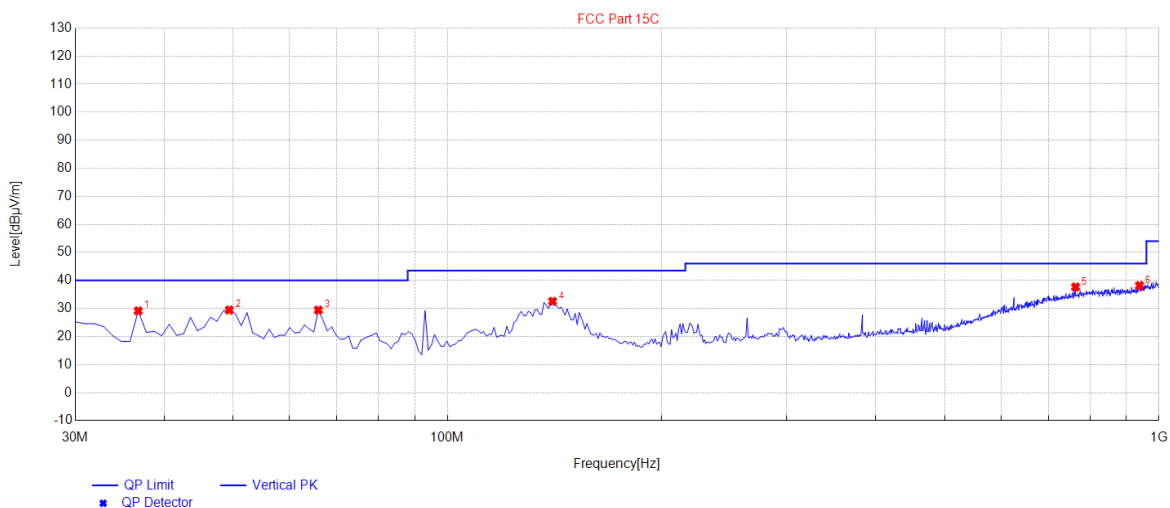
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EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.79	29.14	10.73	40.00	10.86	100	94	Vertical
2	49.4	29.44	11.61	40.00	10.56	100	238	Vertical
3	65.89	29.42	9.93	40.00	10.58	100	325	Vertical
4	140.58	32.53	19.74	43.50	10.97	100	242	Vertical
5	763.32	37.64	30.56	46.00	8.36	100	162	Vertical
6	938.89	38.17	32.65	46.00	7.83	100	1	Vertical

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

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Radiated emission above 1GHz

EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.43	9.14	55.57	68.20	-12.63	peak
15540.063	40.66	10.22	50.88	74.00	-23.12	peak
15540.063	31.79	10.22	42.01	54.00	-11.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.65	9.14	55.79	68.20	-12.41	peak
15540.063	41.13	10.22	51.35	74.00	-22.65	peak
15540.063	31.49	10.22	41.71	54.00	-12.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	47.44	9.14	56.58	68.20	-11.62	peak
15600.063	42.67	10.22	52.89	74.00	-21.11	peak
15600.063	33.36	10.22	43.58	54.00	-10.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.27	9.14	55.41	68.20	-12.79	peak
15600.063	40.65	10.22	50.87	74.00	-23.13	peak
15600.063	31.33	10.22	41.55	54.00	-12.45	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	48.37	9.27	57.64	68.20	-10.56	peak
15720.063	42.68	10.38	53.06	74.00	-20.94	peak
15720.063	32.13	10.38	42.51	54.00	-11.49	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	46.89	9.27	56.16	68.20	-12.04	peak
15720.063	42.33	10.38	52.71	74.00	-21.29	peak
15720.063	31.83	10.38	42.21	54.00	-11.79	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.042	46.37	9.36	55.73	68.20	-12.47	peak
15780.042	37.43	10.23	47.66	74.00	-26.34	peak
15780.042	35.62	10.23	45.85	54.00	-8.15	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.042	46.69	9.36	56.05	68.20	-12.15	peak
15780.042	37.72	10.23	47.95	74.00	-26.05	peak
15780.042	35.44	10.23	45.67	54.00	-8.33	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5300MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.042	53.36	9.33	62.69	74.00	-11.31	peak
10600.042	34.26	9.33	43.59	54.00	-10.41	AVG
15900.063	46.73	10.32	57.05	74.00	-16.95	peak
15900.063	33.73	10.32	44.05	54.00	-9.95	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.042	53.53	9.33	62.86	74.00	-11.14	peak
10600.042	34.77	9.33	44.10	54.00	-9.90	AVG
15900.063	46.63	10.32	56.95	74.00	-17.05	peak
15900.063	33.81	10.32	44.13	54.00	-9.87	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.042	53.47	9.33	62.80	74.00	-11.20	peak
10640.042	34.68	9.33	44.01	54.00	-9.99	AVG
15960.063	46.79	10.32	57.11	74.00	-16.89	peak
15960.063	33.39	10.32	43.71	54.00	-10.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

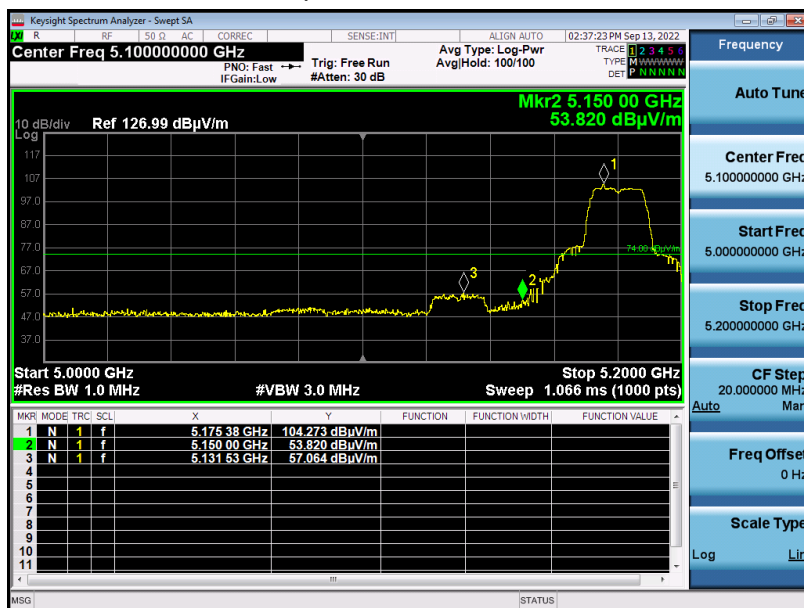
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.042	53.86	9.33	63.19	74.00	-10.81	peak
10640.042	34.44	9.33	43.77	54.00	-10.23	AVG
15960.063	46.69	10.32	57.01	74.00	-16.99	peak
15960.063	33.66	10.32	43.98	54.00	-10.02	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.
Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.
Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.
The “Factor” value can be calculated automatically by software of measurement system.

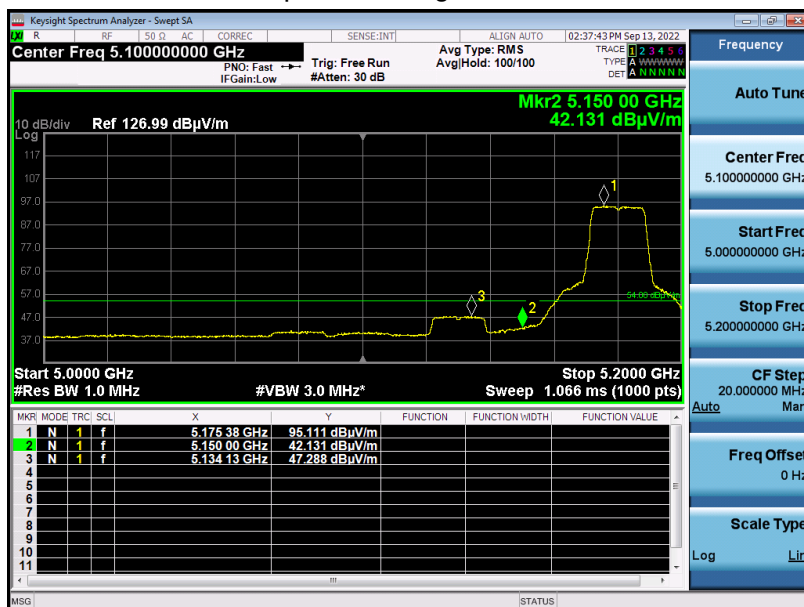
Test result for band edge emission at restricted bands-5.15-5.25 GHz

EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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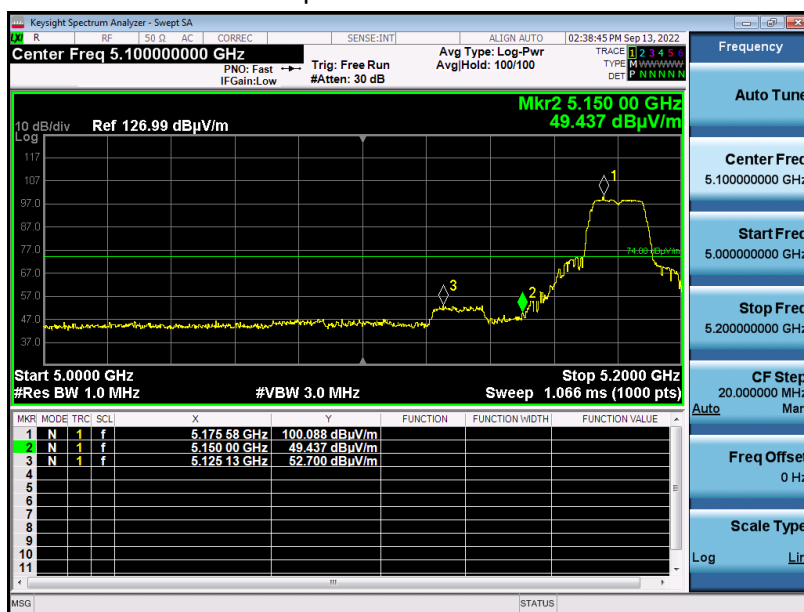
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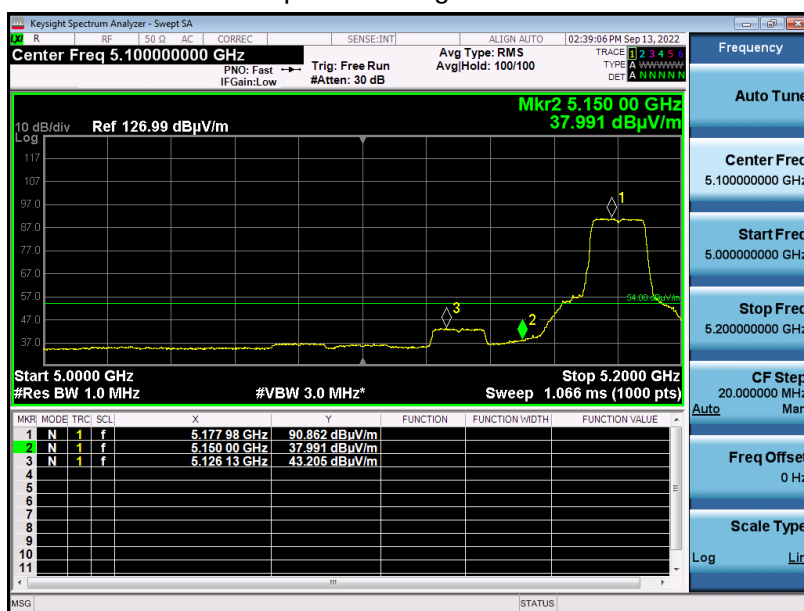
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	Group Training Data Hub	Model Name	RC905
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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.

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