
FCC Test Report

Report No.: AGC15661230401FE06

FCC ID : 2AZHPW0890

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Neurosens IMU sensor

BRAND NAME : Neurosoft

MODEL NAME : Neurosens IMU sensor

APPLICANT : Neurosoft Ltd

DATE OF ISSUE : Apr. 27, 2023

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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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 27, 2023	Valid	Initial Release

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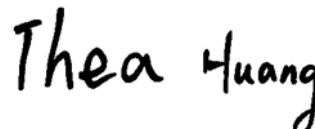
1. VERIFICATION OF CONFORMITY

Applicant	Neurosoft Ltd
Address	Voronin str.5, Ivanovo, 153032, Russia Federation
Manufacturer	Neurosoft Ltd
Address	Voronin str.5, Ivanovo, 153032, Russia Federation
Factory	Neurosoft Ltd
Address	Voronin str.5, Ivanovo, 153032, Russia Federation
Product Designation	Neurosens IMU sensor
Brand Name	Neurosoft
Test Model	Neurosens IMU sensor
Date of receipt of test item	Apr. 19, 2023
Date of test	Apr. 19, 2023 to Apr. 27, 2023
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



Thea Huang
(Project Engineer)

Apr. 27, 2023

Reviewed By



Calvin Liu
(Reviewer)

Apr. 27, 2023

Approved By



Max Zhang
(Authorized Officer)

Apr. 27, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Neurosens IMU sensor”. 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: 5260~5350MHz, 5500~5720MHz For 802.11n-HT40: 5270~5310MHz, 5510~5710MHz	
Max Average Power	IEEE 802.11a:15.45dBm; IEEE 802.11n-HT20:13.65dBm; IEEE 802.11n-HT40:12.78dBm	
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-2A Band 18 channels of U-NII-2C Band	
Hardware Version	V1.2	
Software Version	V4.1.3	
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	-1.81dBi	
Power Supply	DC 3.7V by battery or DC 5V by PC	

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2.2. TABLE OF CARRIER FREQUENCIES

For 5250~5350MHz:

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

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

For 5470~5725MHz:

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

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

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

This submittal(s) (test report) is intended for **FCC ID: 2AZHPW0890** 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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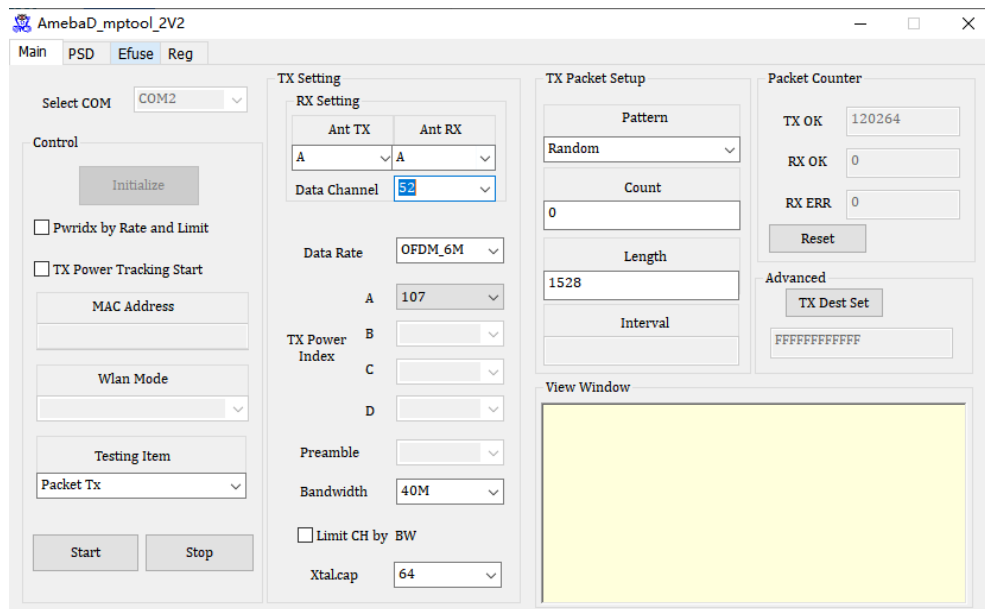
4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n	36,40,44,48, 149,153,157,161,165	36,40,48, 149,157,165	OFDM	6Mbps/MCS0
802.11n	38,46,151,159	38,46, 151,159	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



The screenshot shows the 'AmebaD_mptool_2V2' software interface. It has a top menu bar with 'Main', 'PSD', 'Efuse', and 'Reg'. The 'Main' tab is active. The interface is divided into several sections:

- Control:** Includes a 'Select COM' dropdown set to 'COM2', an 'Initialize' button, and checkboxes for 'Pwridx by Rate and Limit' and 'TX Power Tracking Start'. Below these are fields for 'MAC Address', 'Wlan Mode', and 'Testing Item' (set to 'Packet Tx'). At the bottom are 'Start' and 'Stop' buttons.
- TX Setting:** Contains 'RX Setting' with 'Ant TX' and 'Ant RX' dropdowns (both set to 'A'), a 'Data Channel' dropdown (set to '52'), 'Data Rate' (set to 'OFDM_6M'), 'TX Power Index' (with sub-drops A: 107, B, C, D), 'Preamble', 'Bandwidth' (set to '40M'), a checkbox for 'Limit CH by BW', and 'Xtalcap' (set to '64').
- TX Packet Setup:** Includes 'Pattern' (set to 'Random'), 'Count' (set to '0'), 'Length' (set to '1528'), and 'Interval'.
- Packet Counter:** Shows 'TX OK' (120264), 'RX OK' (0), and 'RX ERR' (0). It has a 'Reset' button and an 'Advanced' section with a 'TX Dest Set' button and a field containing 'FFFFFFFFFFFF'.
- View Window:** A large yellow rectangular area at the bottom right.

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AmebaD_mptool_2V2

Main PSD Efuse Reg

Select COM COM2

Control

Initialize

☐ Pwrldx by Rate and Limit

☐ TX Power Tracking Start

MAC Address

Wlan Mode

Testing Item

Packet Tx

Start Stop

TX Setting

RX Setting

Ant TX	Ant RX
A	A

Data Channel 165

Data Rate OFDM_6M

A 107

B

C

D

Preamble

Bandwidth 40M

☐ Limit CH by BW

Xtalcap 64

TX Packet Setup

Pattern Random

Count 0

Length 1528

Interval

Packet Counter

TX OK 120264

RX OK 0

RX ERR 0

Reset

Advanced

TX Dest Set

FFFFFFFFFFFF

View Window

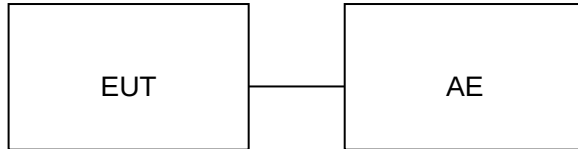
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Neurosens IMU sensor	Neurosens IMU sensor	2AZHPW0890	EUT
2	Huawei Notebook PC	D15	DC 5V	AE
3	PC adapter	HW-200200CP1	DC 5V	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§2.1049	26dB bandwidth Measurement	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

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	Feb. 18, 2023	Feb. 17, 2024
LISN	R&S	ESH2-Z5	100086	Aug. 04, 2022	Aug. 03, 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	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	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	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 21, 2023	Apr. 20, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
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

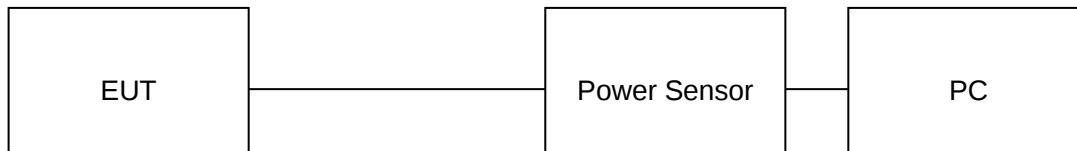
For average power test:

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 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	15.45	23.98	Pass
	5300	15.36	23.98	Pass
	5320	15.35	23.98	Pass
802.11n20	5260	13.65	23.98	Pass
	5300	13.59	23.98	Pass
	5320	13.52	23.98	Pass
802.11n40	5270	12.74	23.98	Pass
	5310	12.78	23.98	Pass

Test Data of Conducted Output Power for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	10.62	23.98	Pass
	5600	10.66	23.98	Pass
	5700	11.75	23.98	Pass
802.11n20	5500	10.74	23.98	Pass
	5600	10.77	23.98	Pass
	5700	11.83	23.98	Pass
802.11n40	5510	10.64	23.98	Pass
	5590	11.43	23.98	Pass
	5670	12.31	23.98	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:

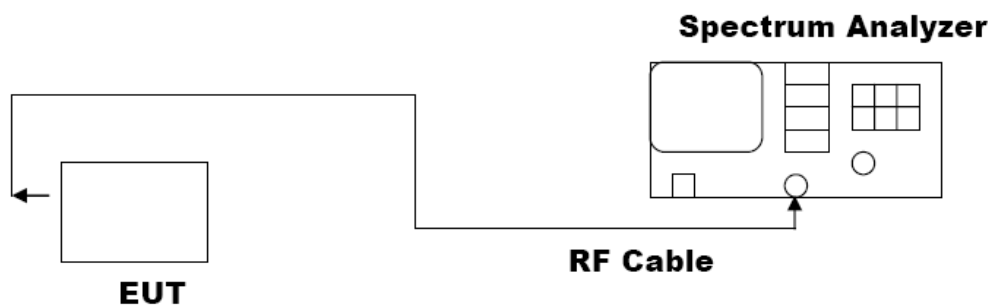
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall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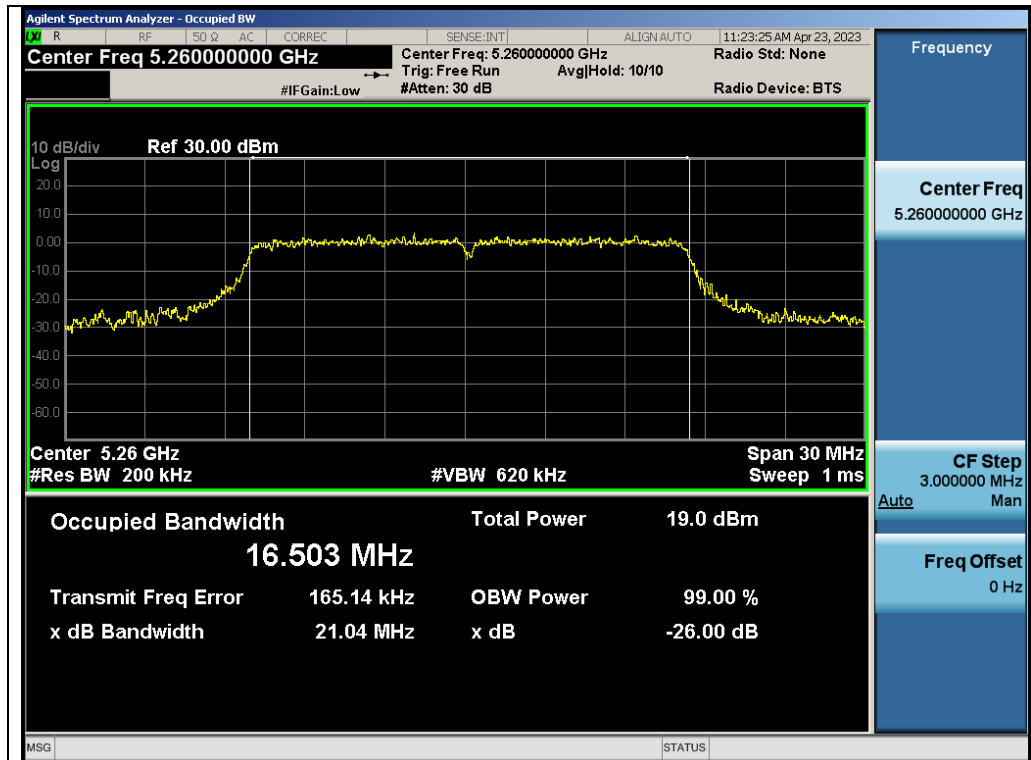
8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.503	21.04	N/A	Pass
	5300	16.557	22.99	N/A	Pass
	5320	16.628	27.38	N/A	Pass
802.11n20	5260	17.634	22.24	N/A	Pass
	5300	17.628	24.46	N/A	Pass
	5320	17.641	26.08	N/A	Pass
802.11n40	5270	35.810	38.26	N/A	Pass
	5310	35.836	38.11	N/A	Pass

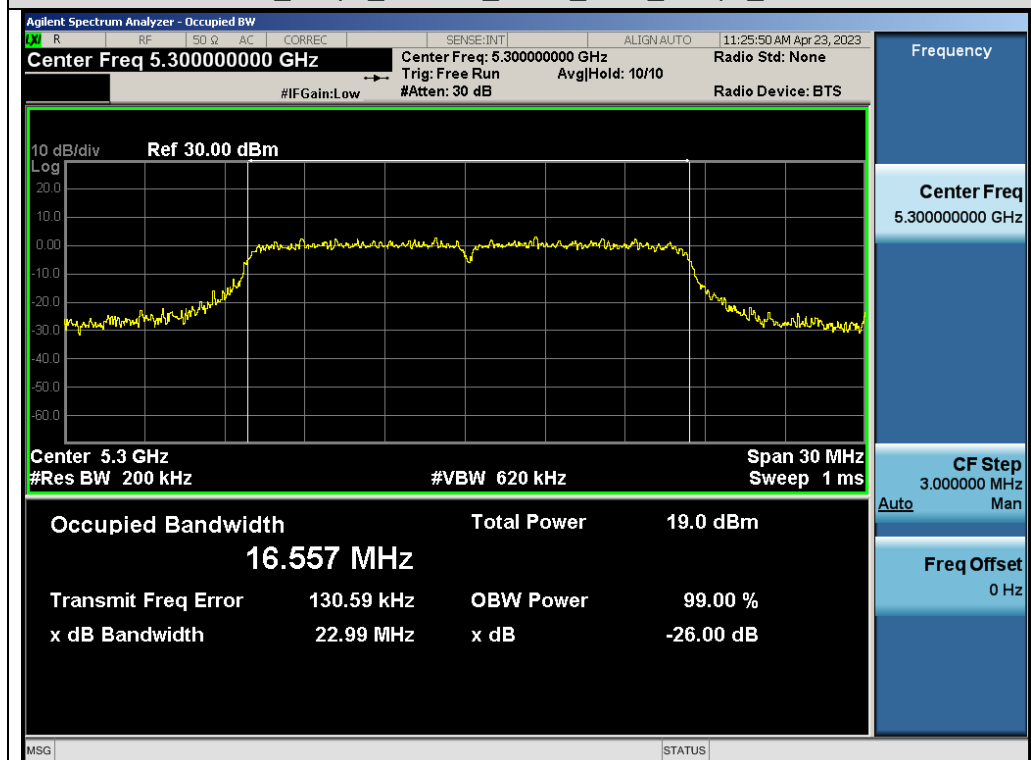
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.523	20.85	N/A	Pass
	5600	16.505	20.68	N/A	Pass
	5700	16.469	20.45	N/A	Pass
802.11n20	5500	17.608	20.72	N/A	Pass
	5600	17.616	21.01	N/A	Pass
	5700	17.610	21.06	N/A	Pass
802.11n40	5510	35.799	38.47	N/A	Pass
	5590	35.752	38.20	N/A	Pass
	5670	35.846	38.34	N/A	Pass

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

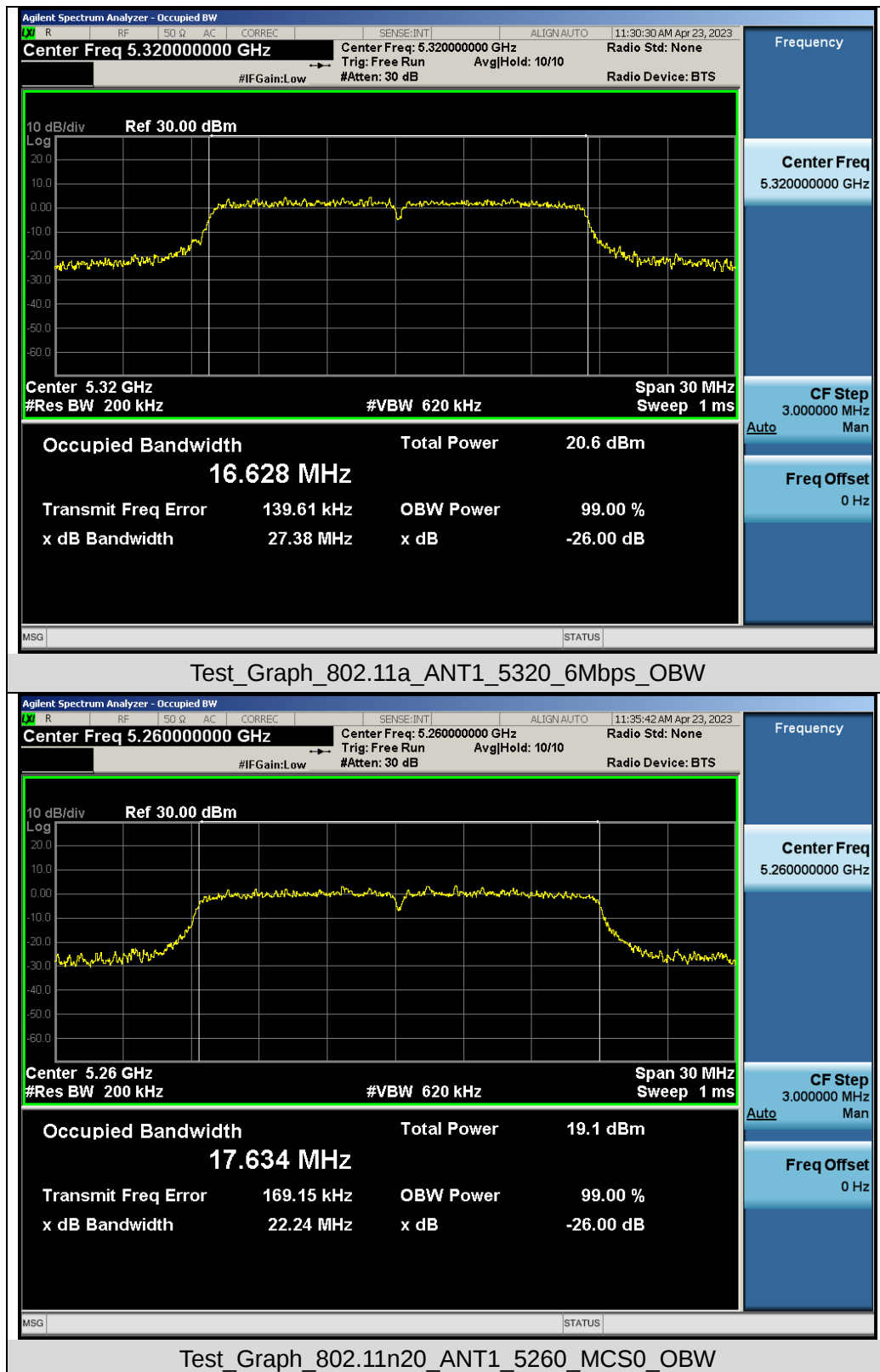


Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

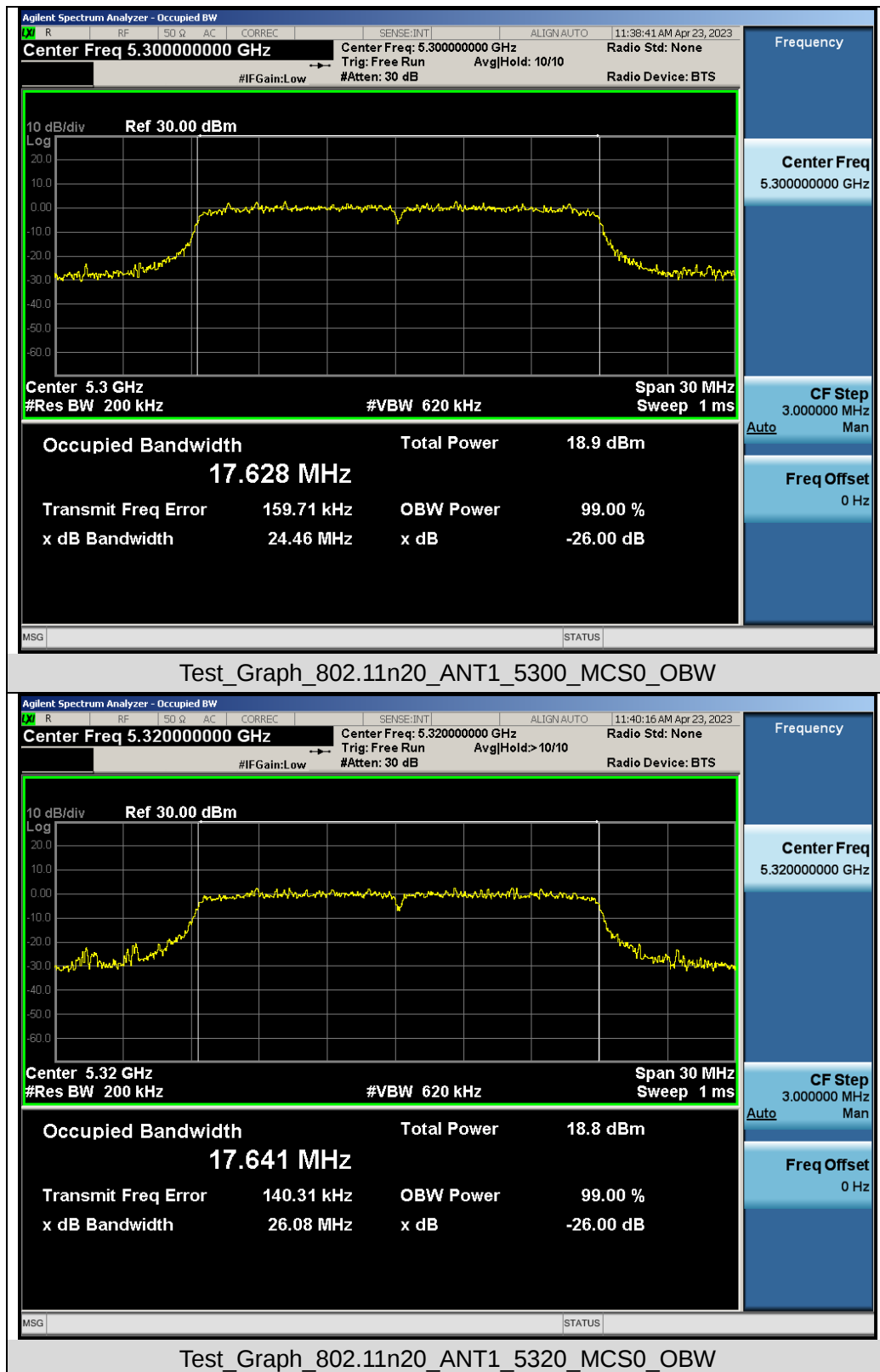


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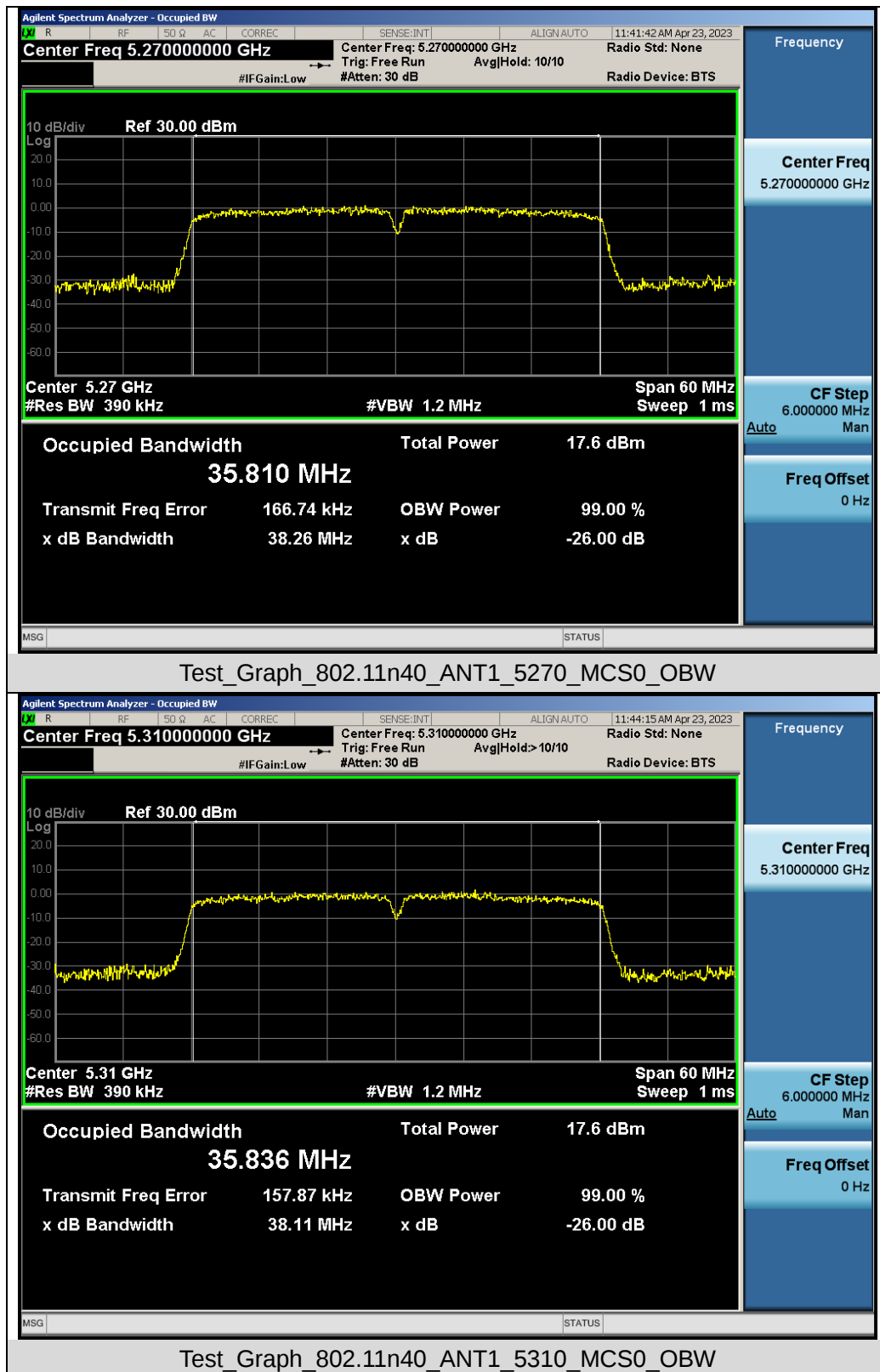
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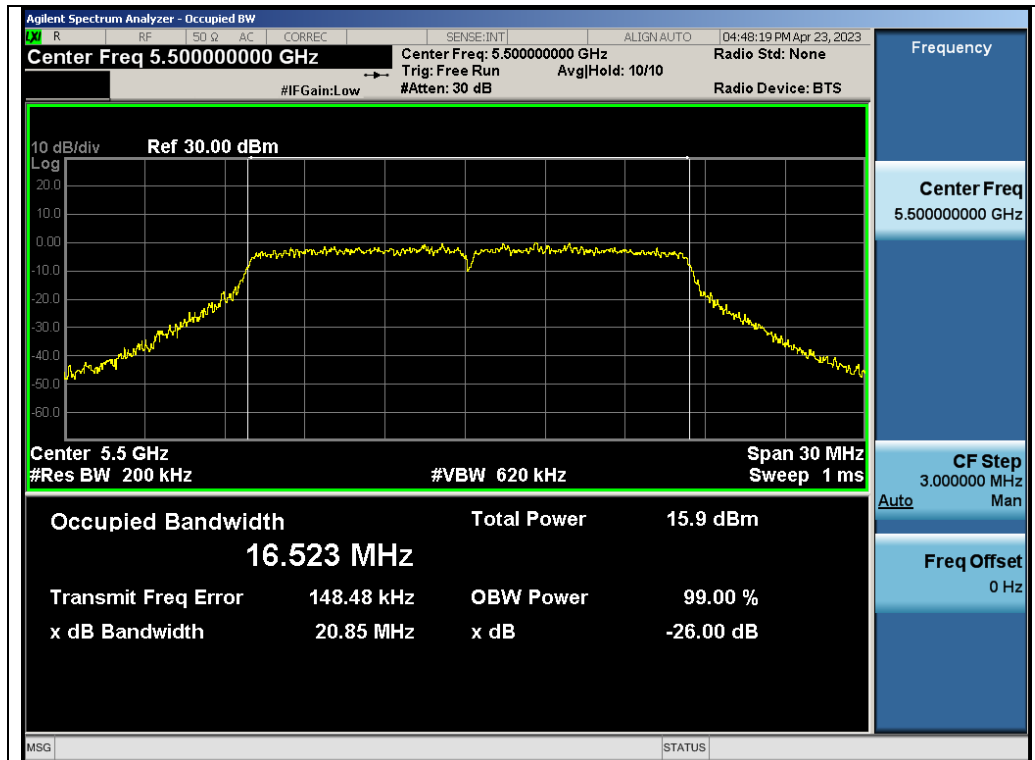


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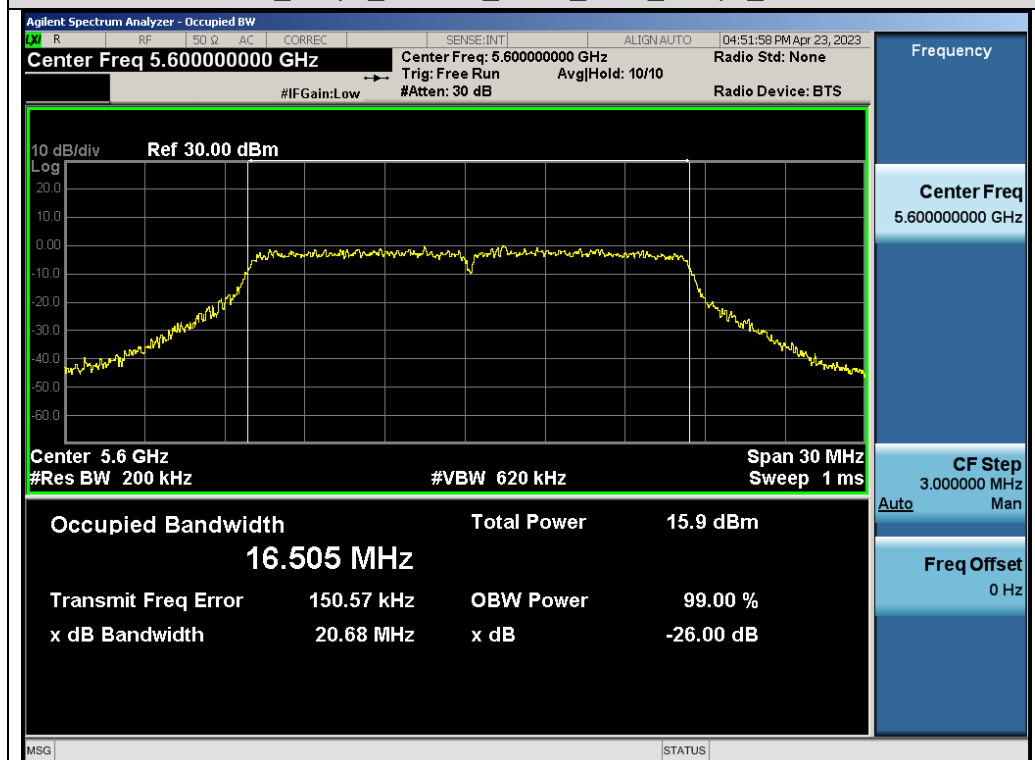


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Test Graphs of Occupied Bandwidth for band 5.47-5.725 GHz

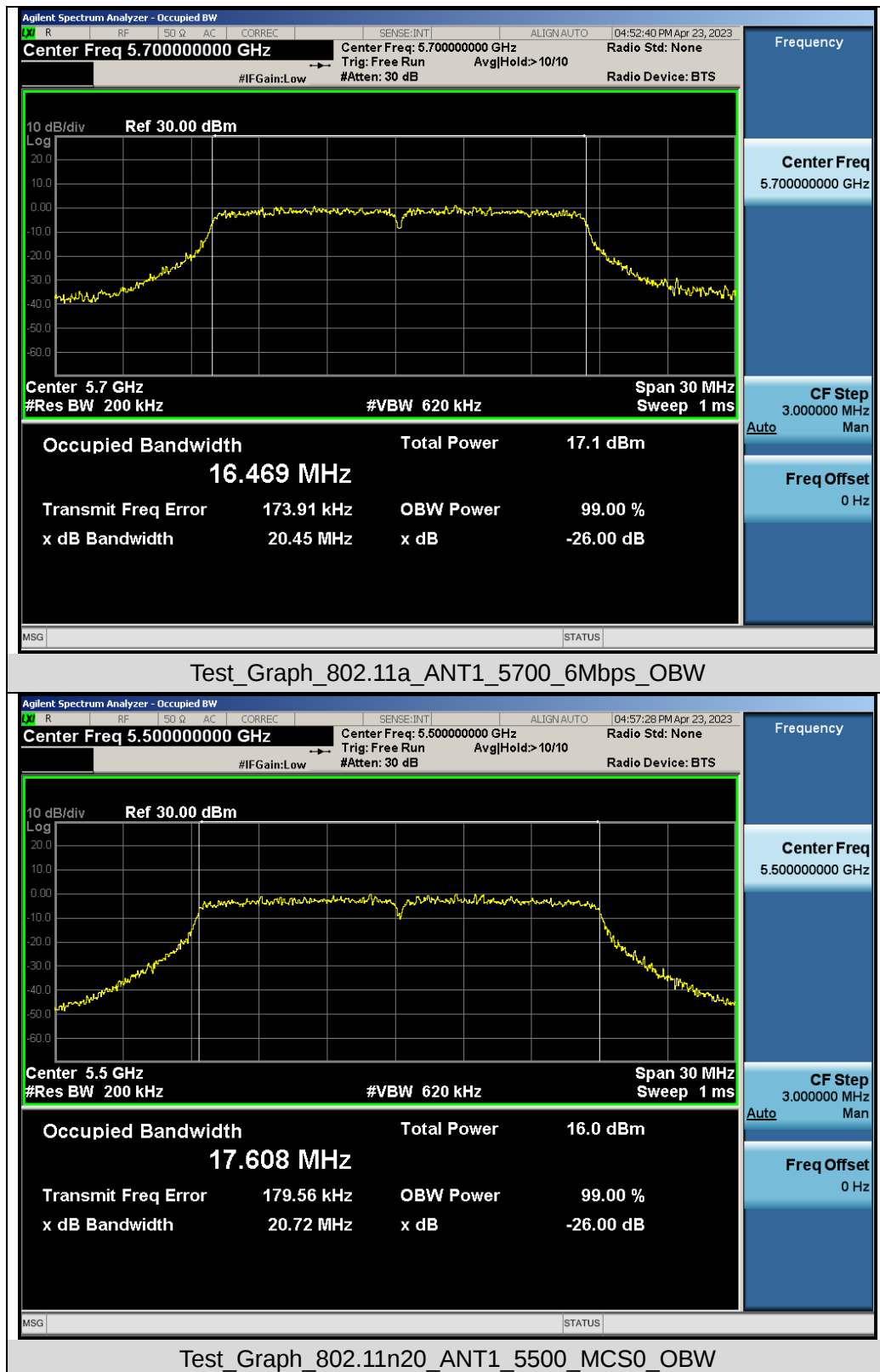


Test_Graph_802.11a_ANT1_5500_6Mbps_OBW

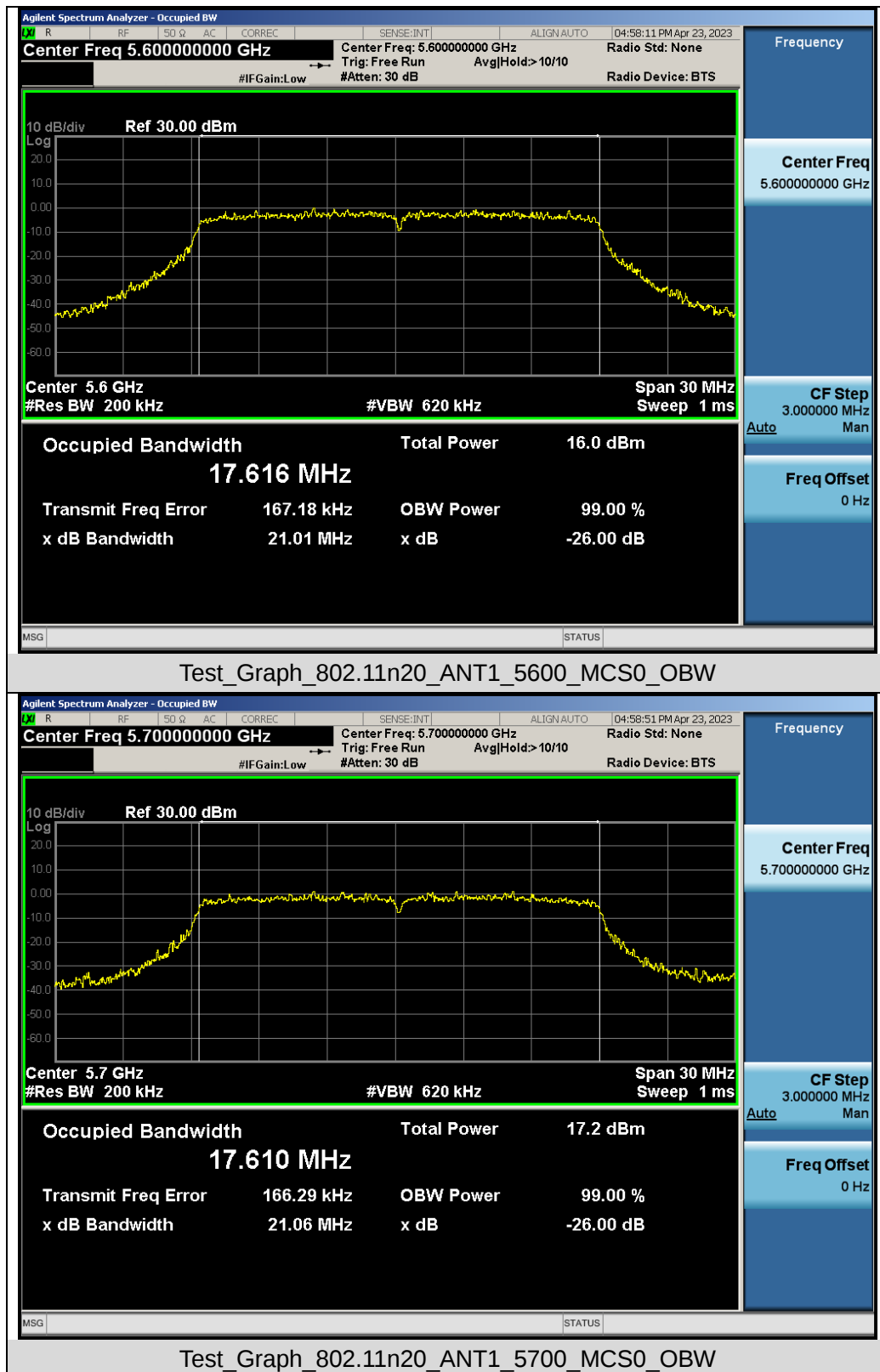


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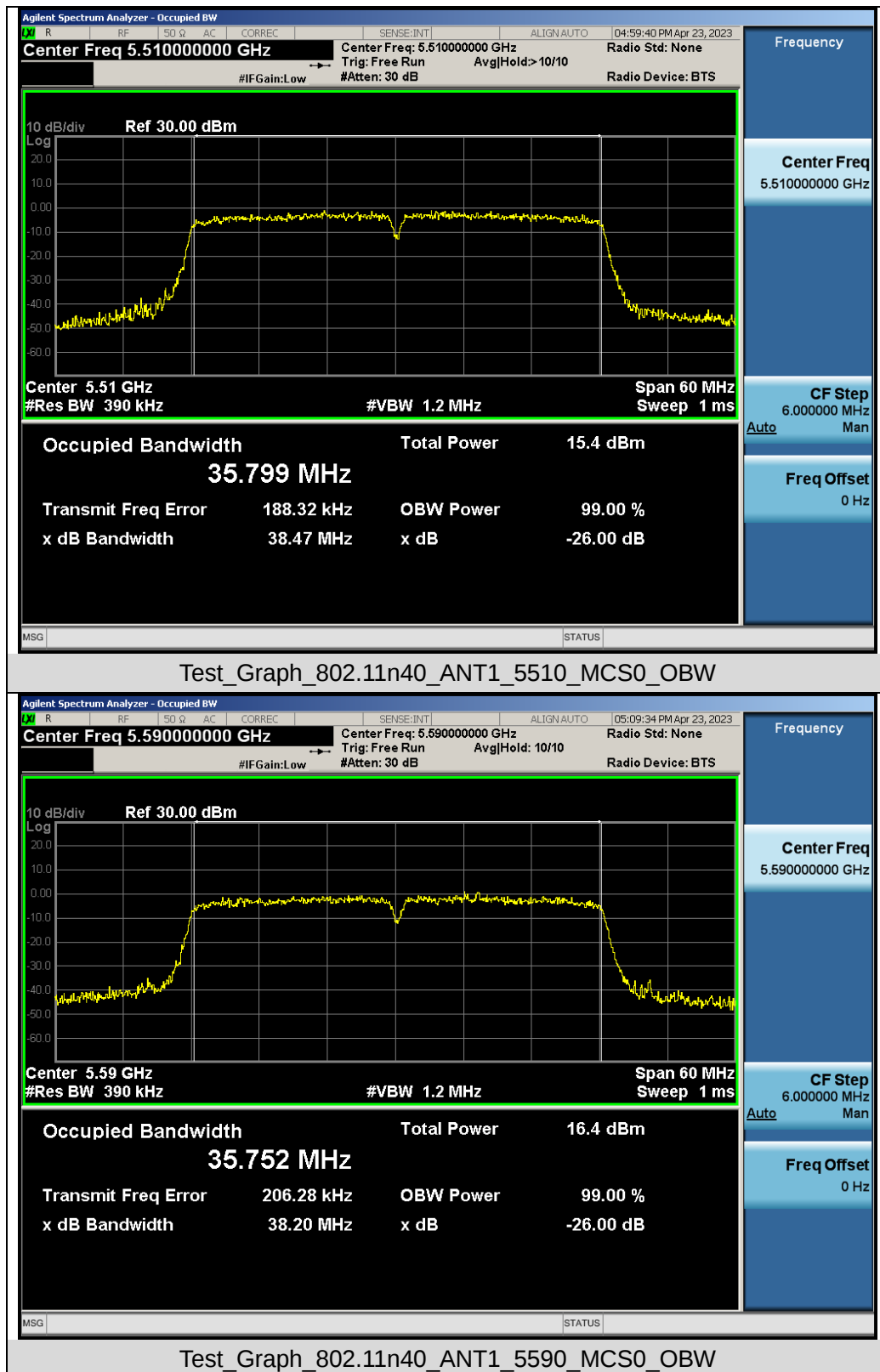
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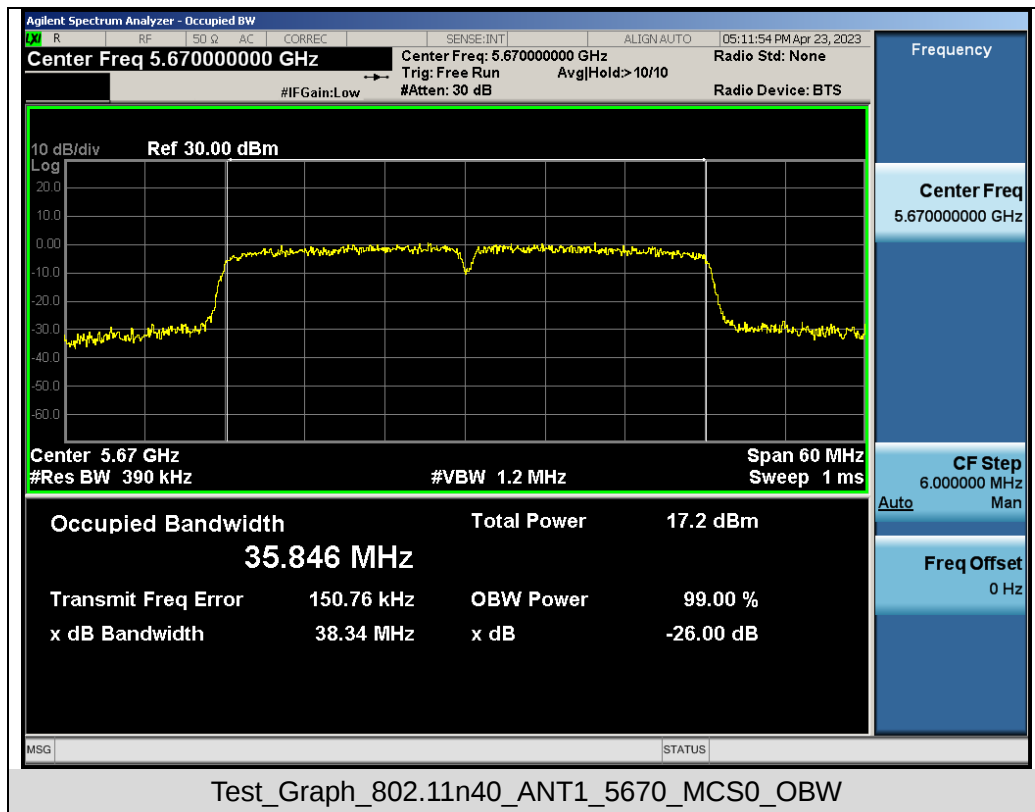
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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

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.

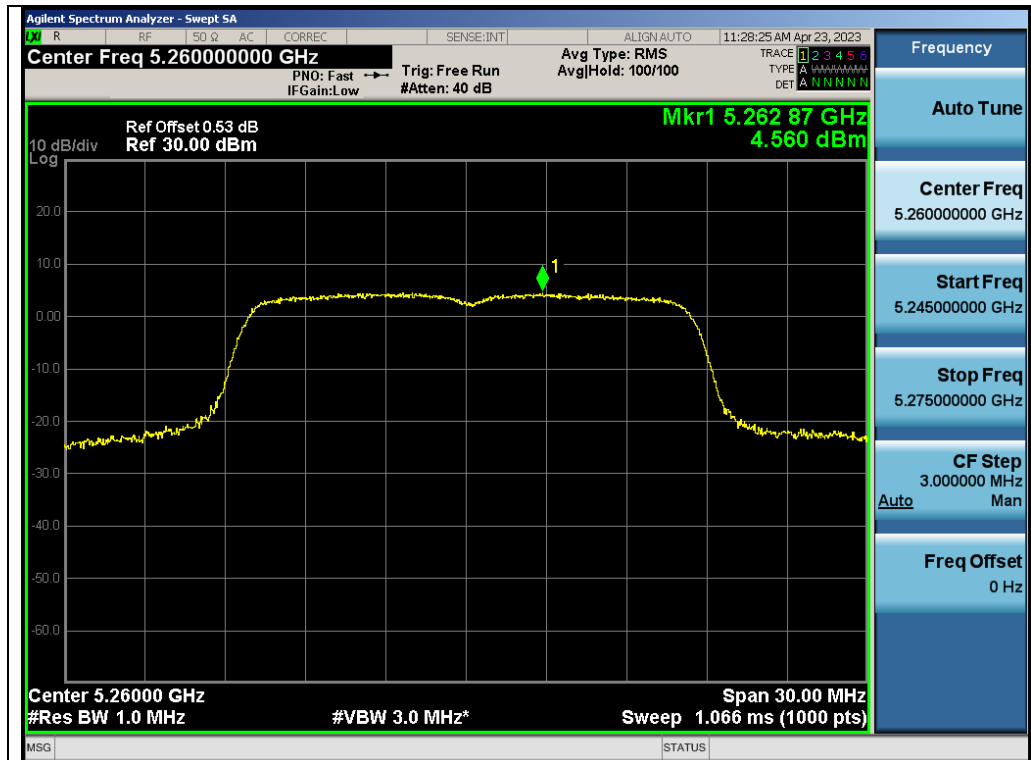
9.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5260	4.560	11	Pass
	5300	4.389	11	Pass
	5320	4.645	11	Pass
802.11n20	5260	2.486	11	Pass
	5300	2.466	11	Pass
	5320	2.375	11	Pass
802.11n40	5270	-1.211	11	Pass
	5310	-1.457	11	Pass

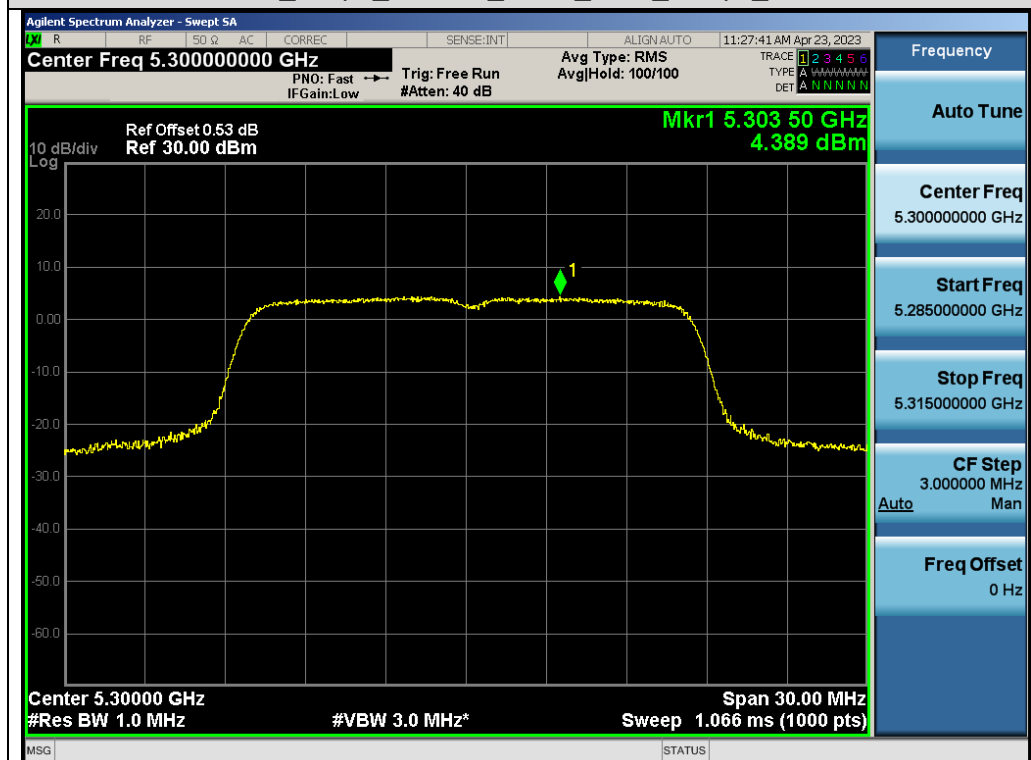
Test Data of Conducted Output Power Density for band 5.47-5.725 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5500	-0.316	11	Pass
	5600	-0.030	11	Pass
	5700	0.929	11	Pass
802.11n20	5500	-0.568	11	Pass
	5600	-0.485	11	Pass
	5700	1.045	11	Pass
802.11n40	5510	-3.479	11	Pass
	5590	-2.377	11	Pass
	5670	-1.592	11	Pass

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

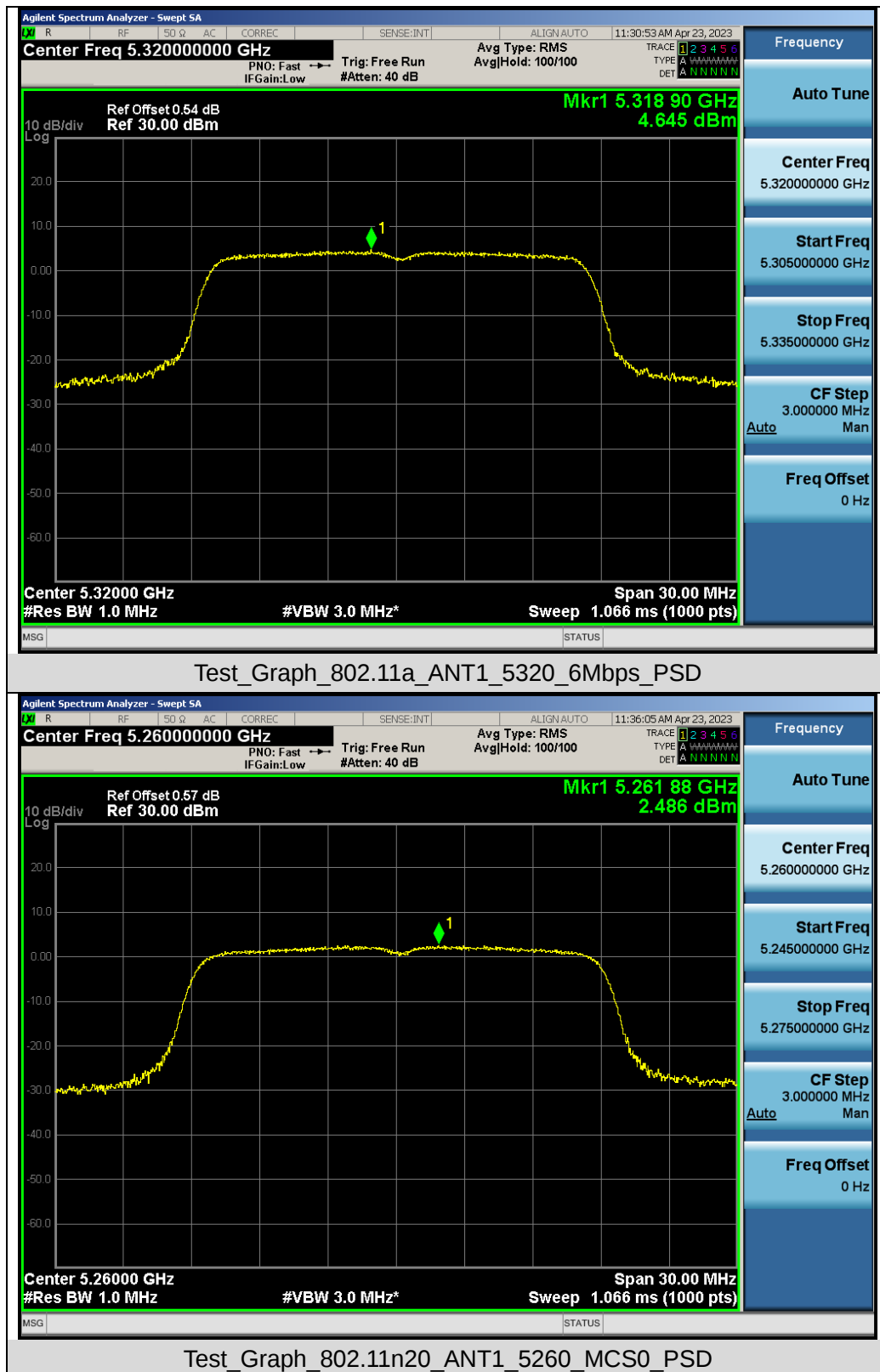


Test_Graph_802.11a_ANT1_5260_6Mbps_PSD

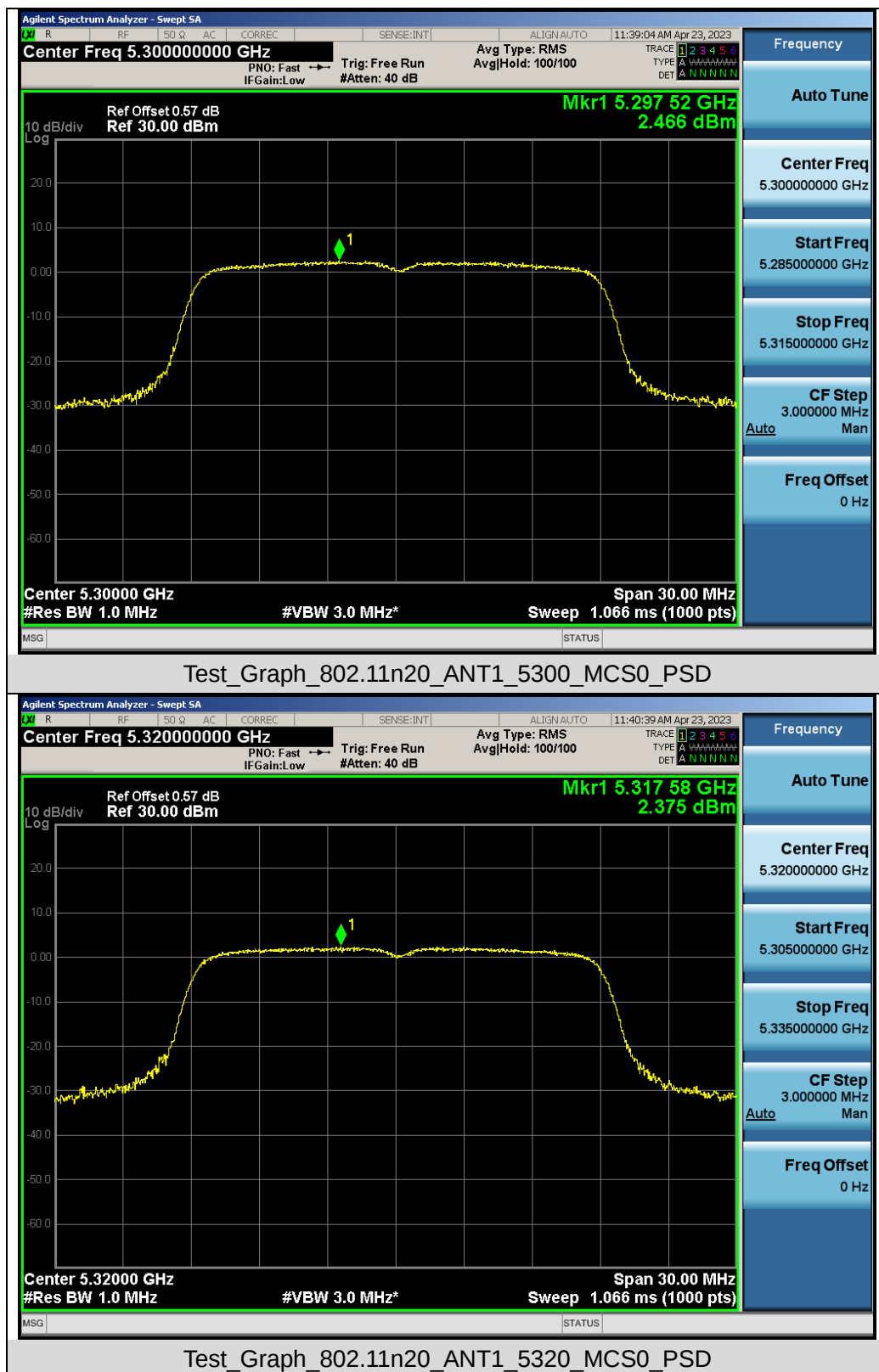


Test_Graph_802.11a_ANT1_5300_6Mbps_PSD

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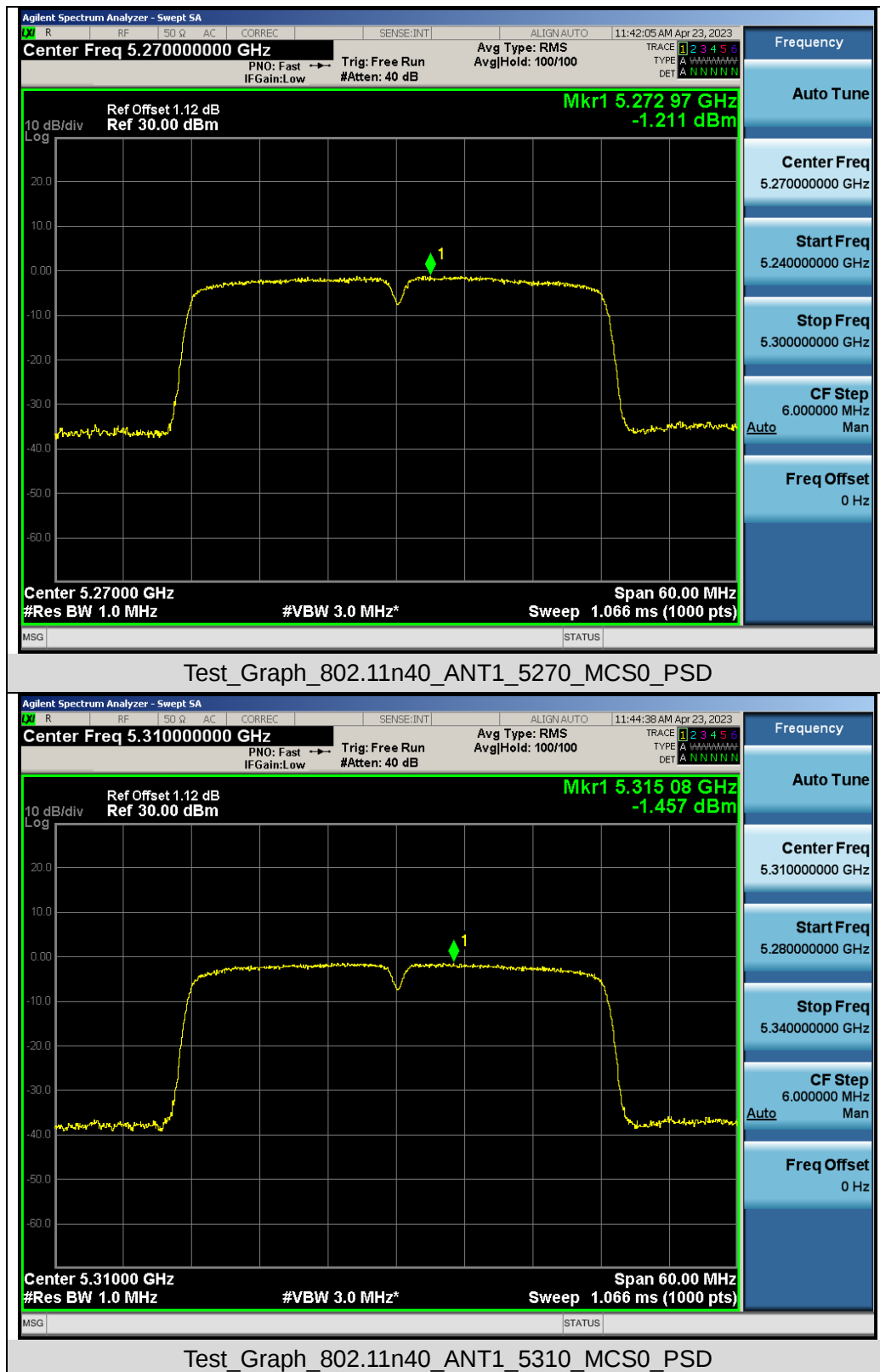


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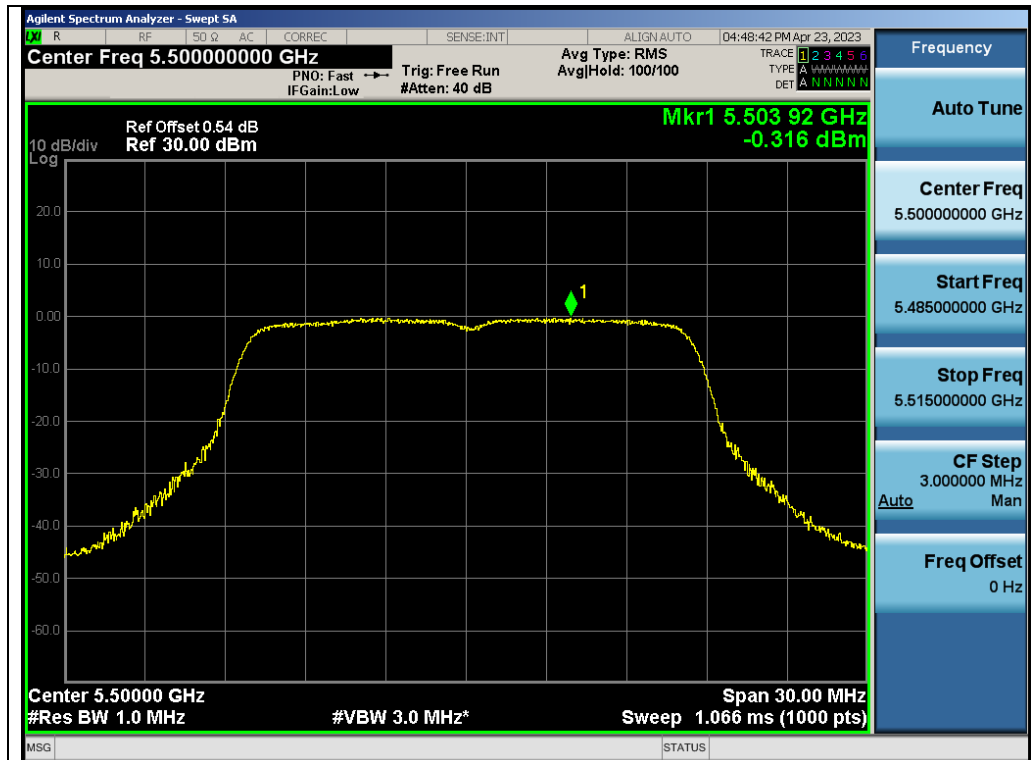
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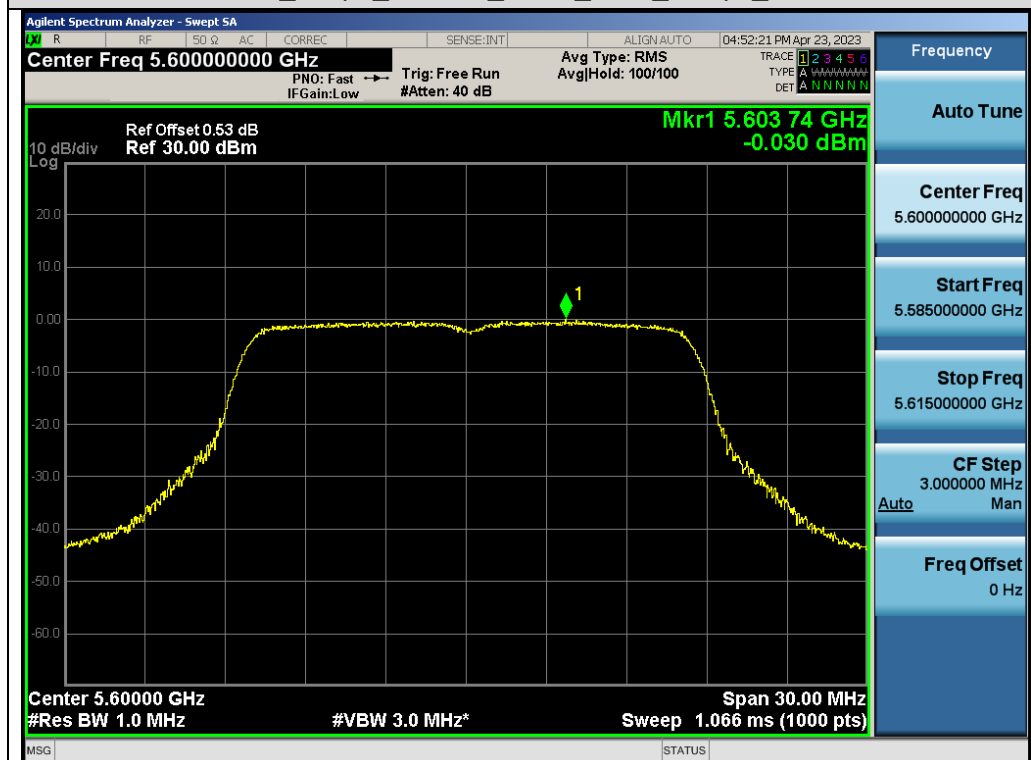


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Test Graphs of Conducted Output Power Spectral Density for band 5.47-5.725 GHz

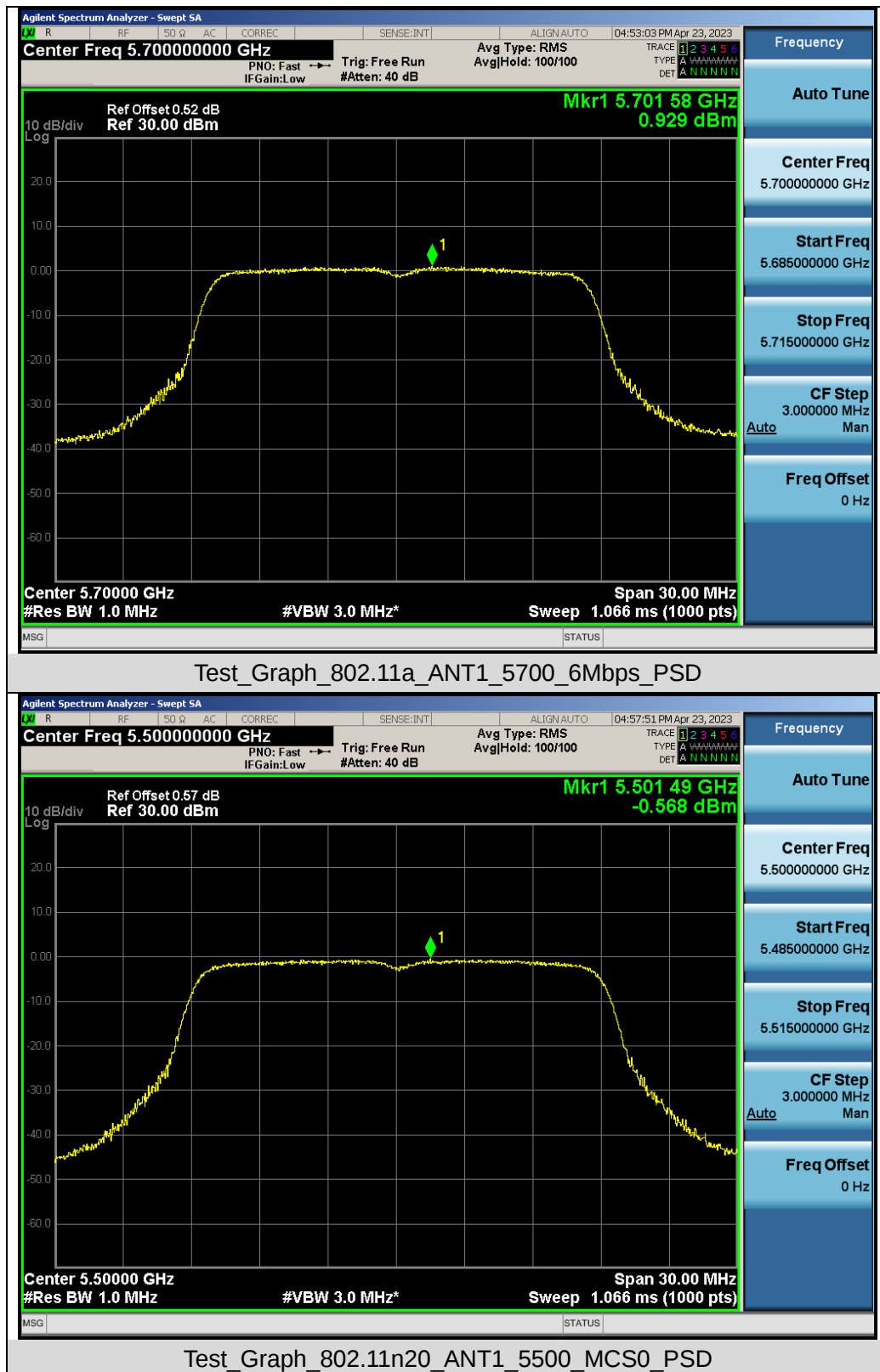


Test_Graph_802.11a_ANT1_5500_6Mbps_PSD

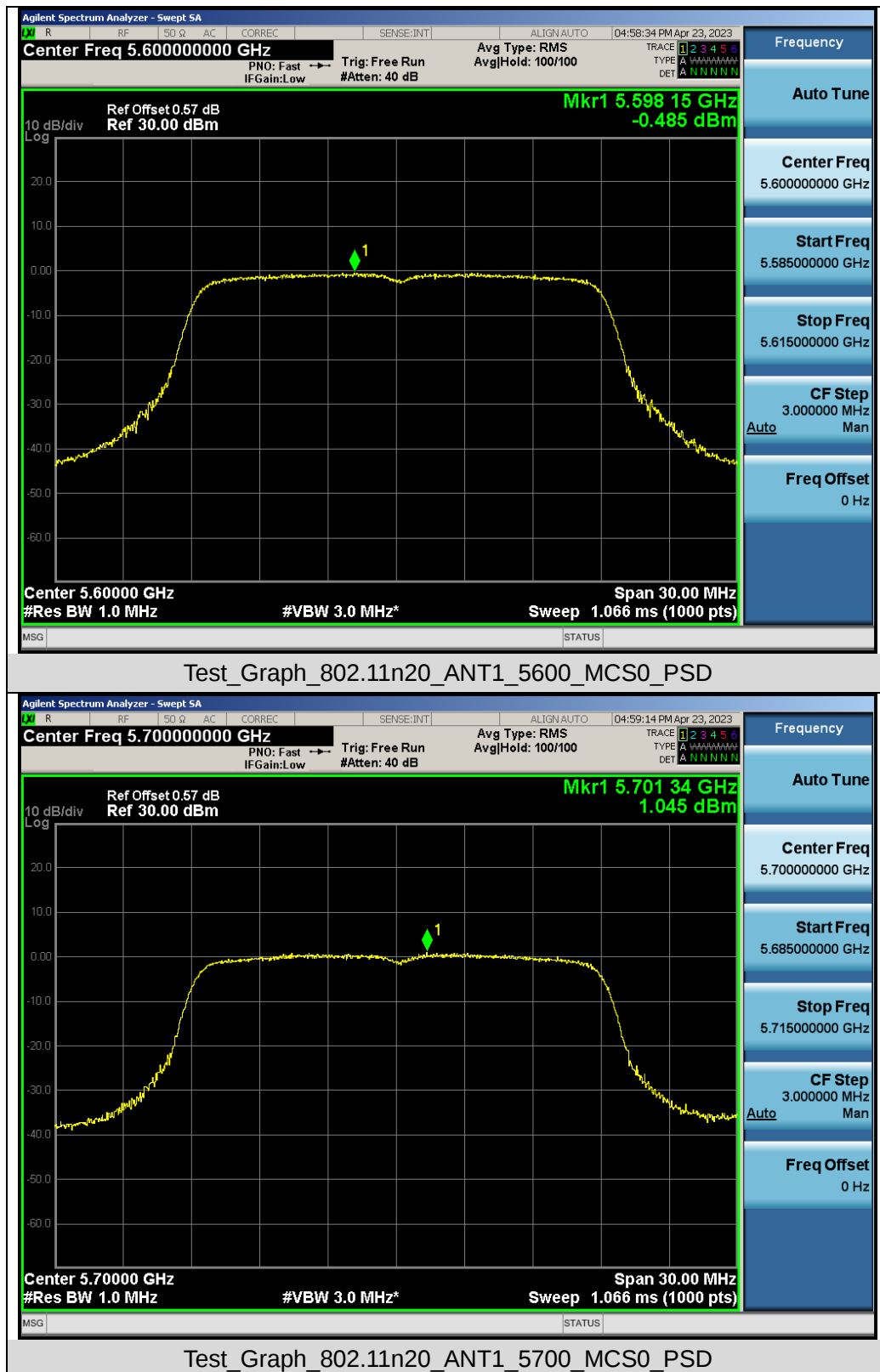


Test_Graph_802.11a_ANT1_5600_6Mbps_PSD

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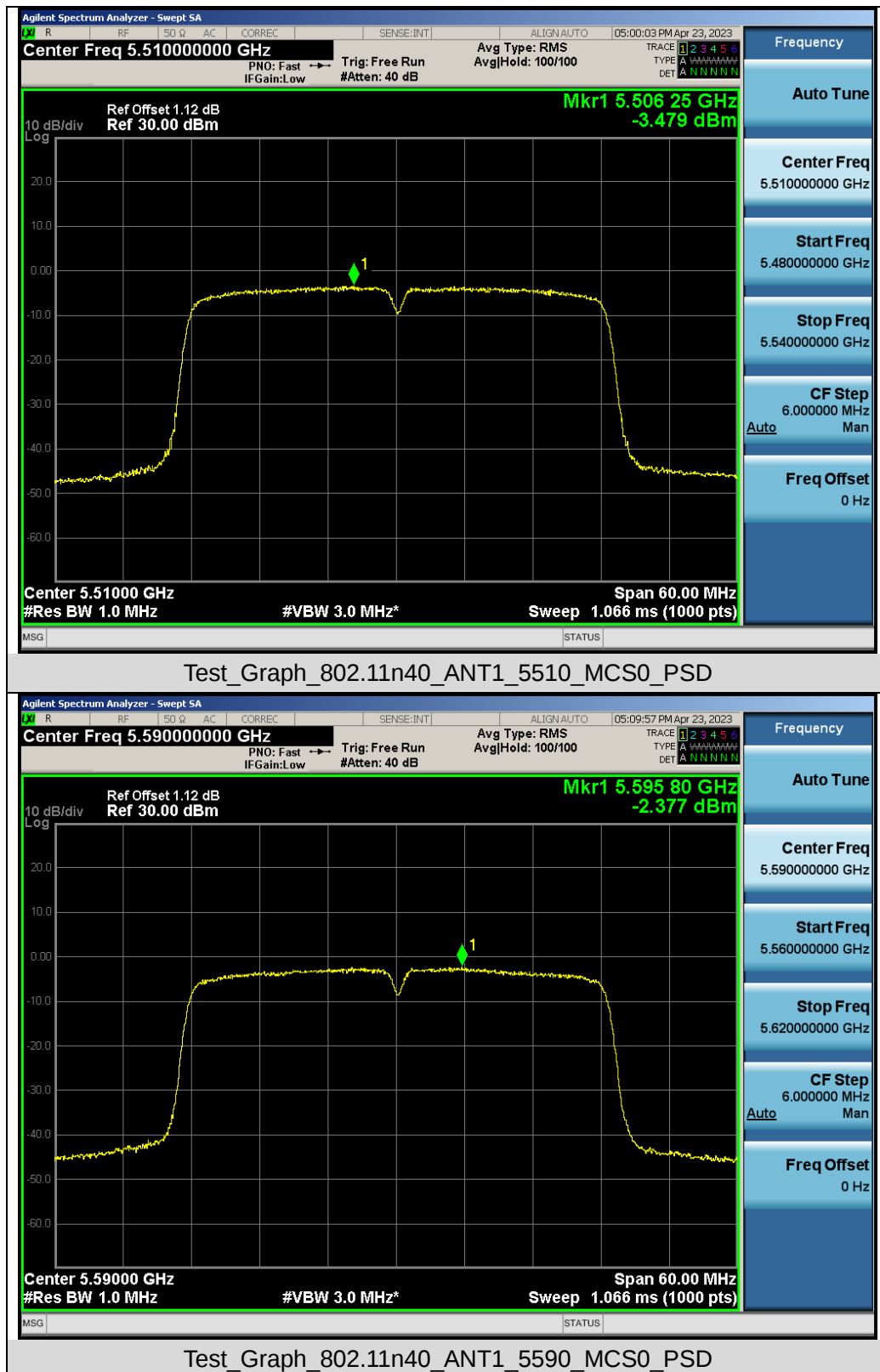


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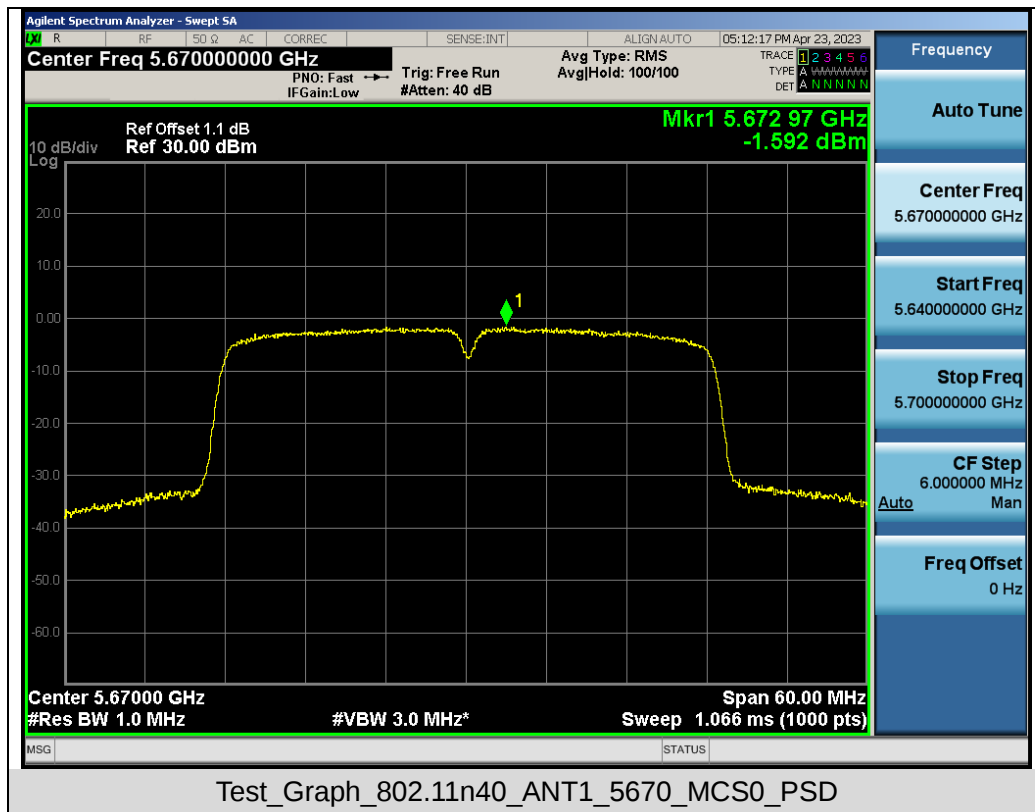


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10. CONDUCTED SPURIOUS EMISSION

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

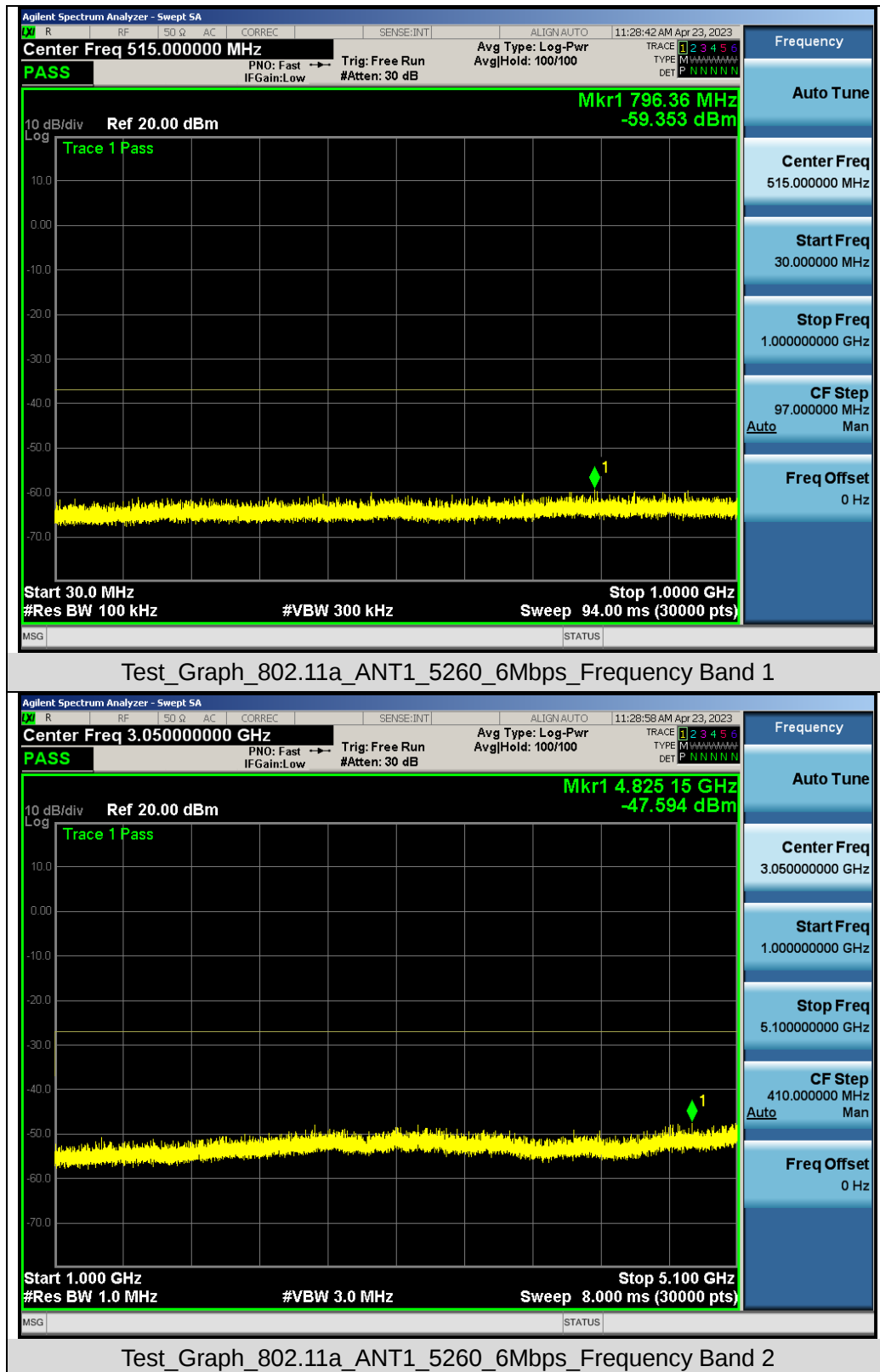
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

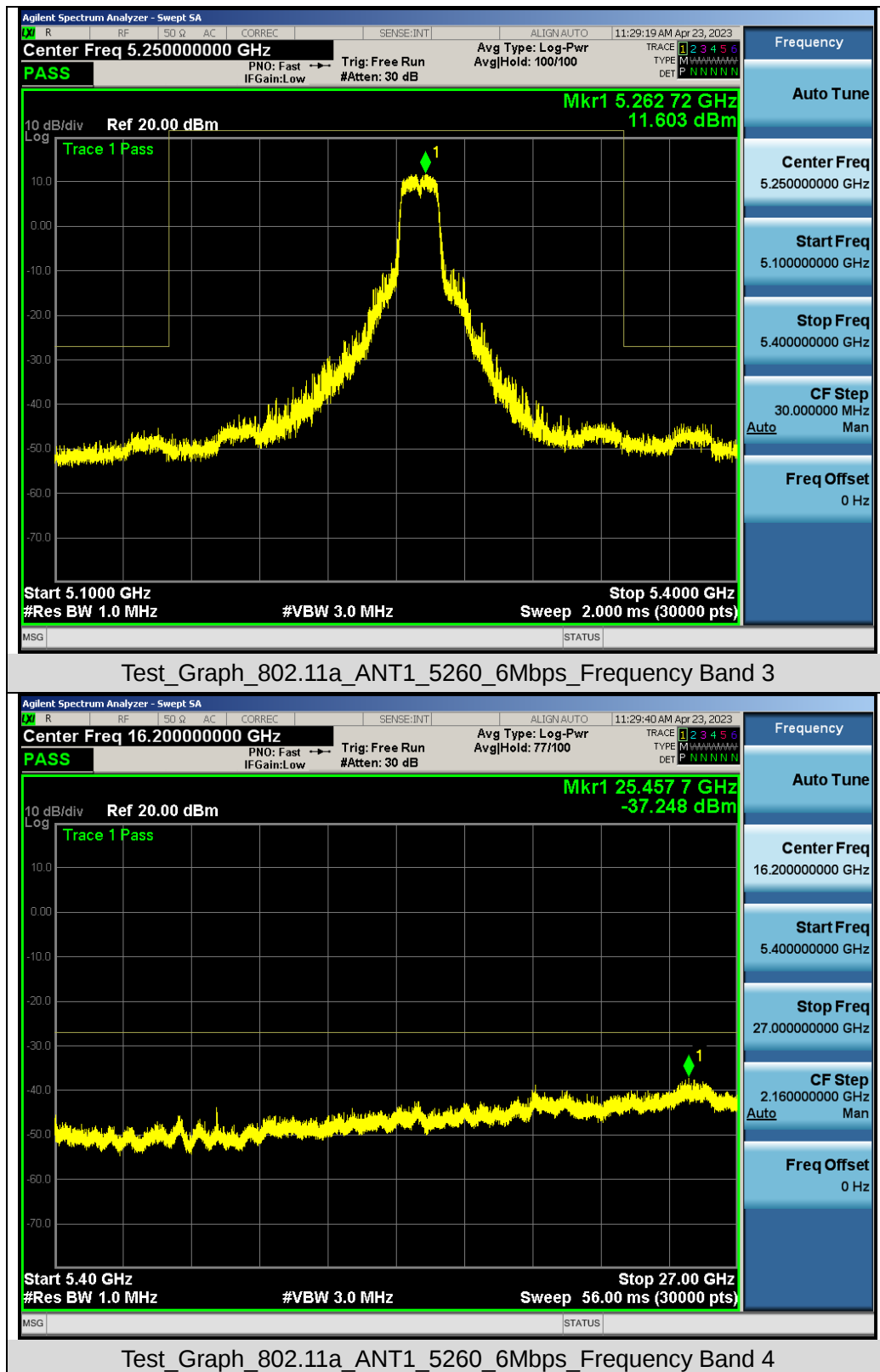
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge,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

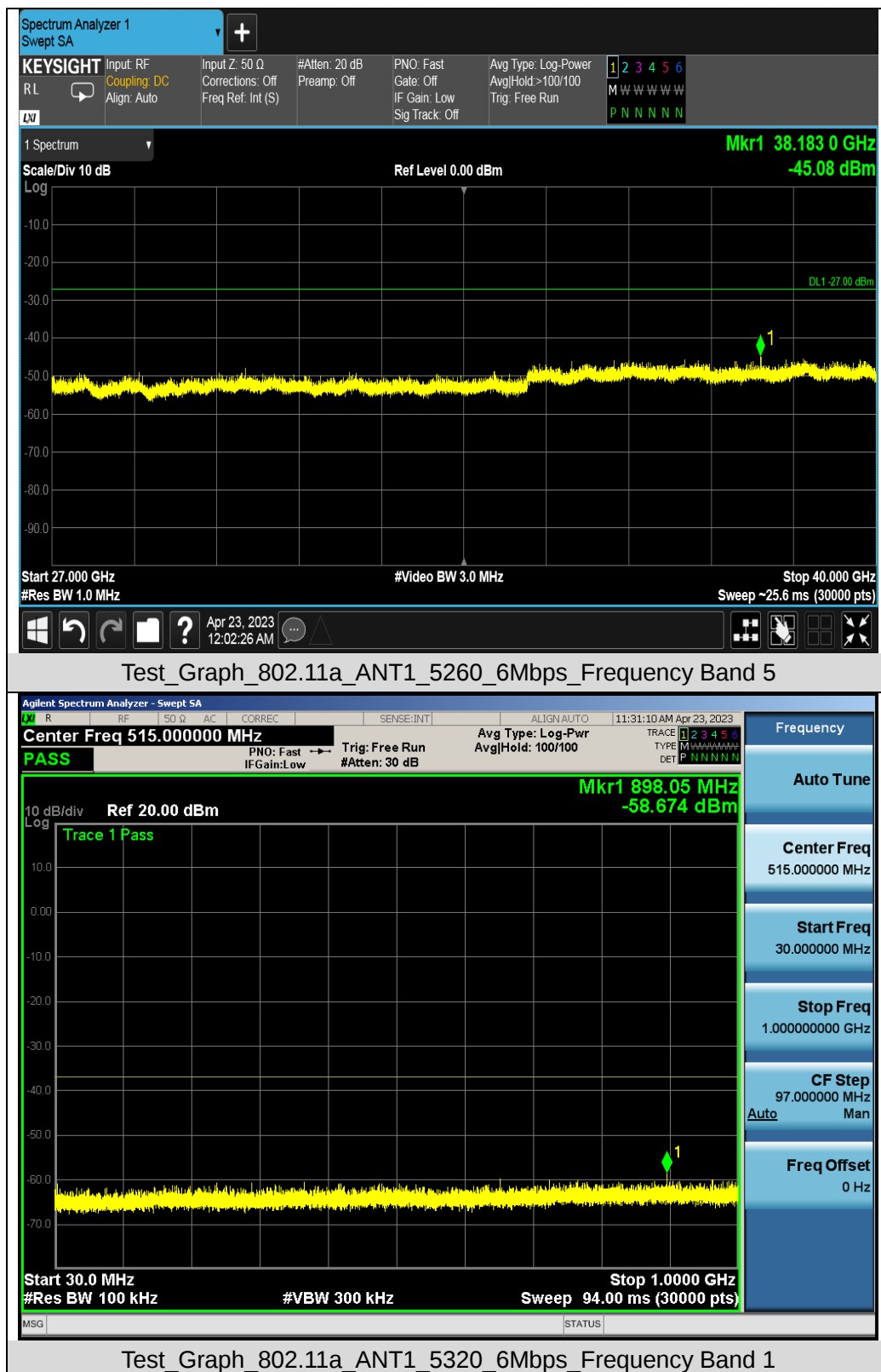
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



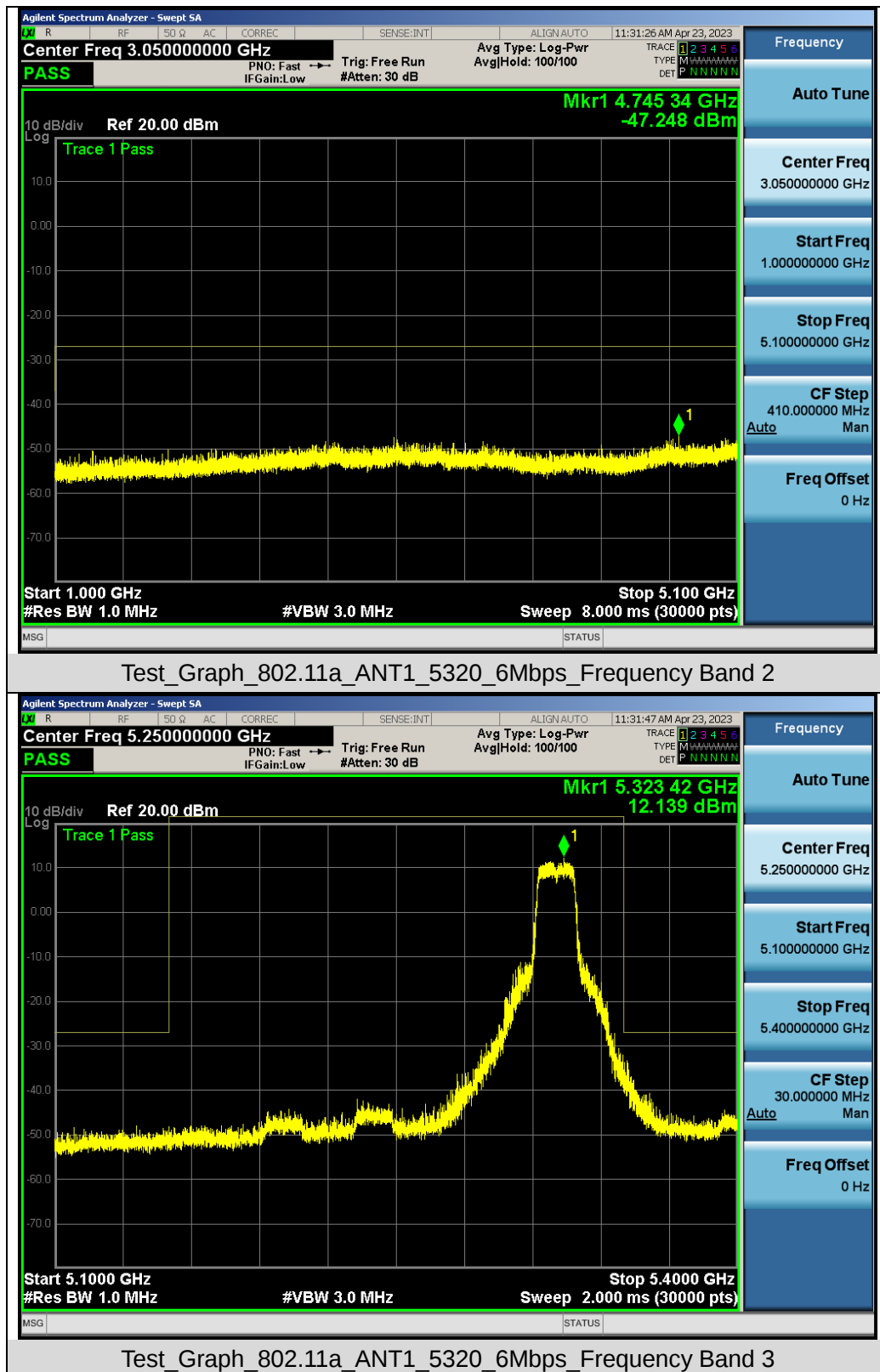
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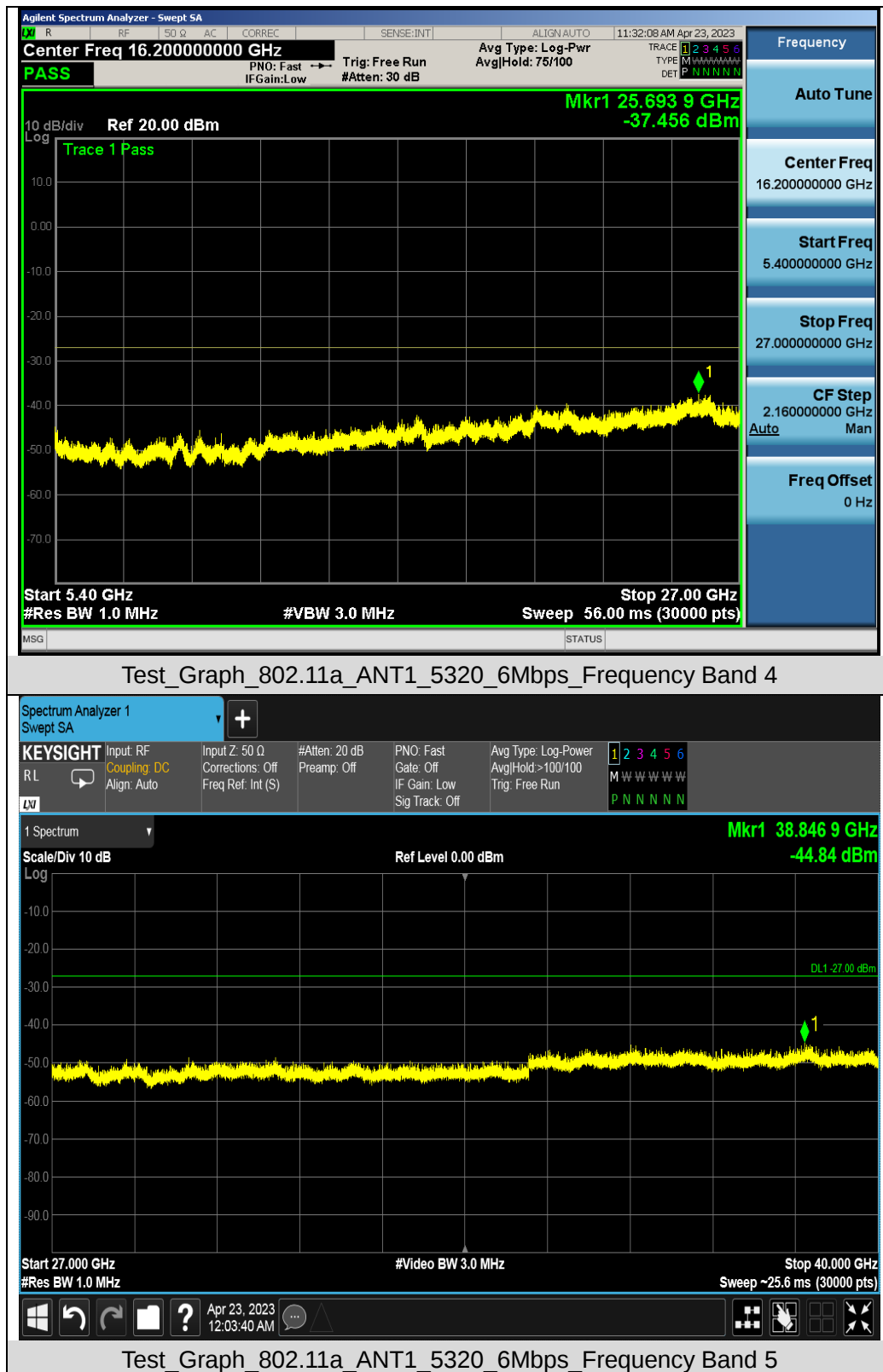
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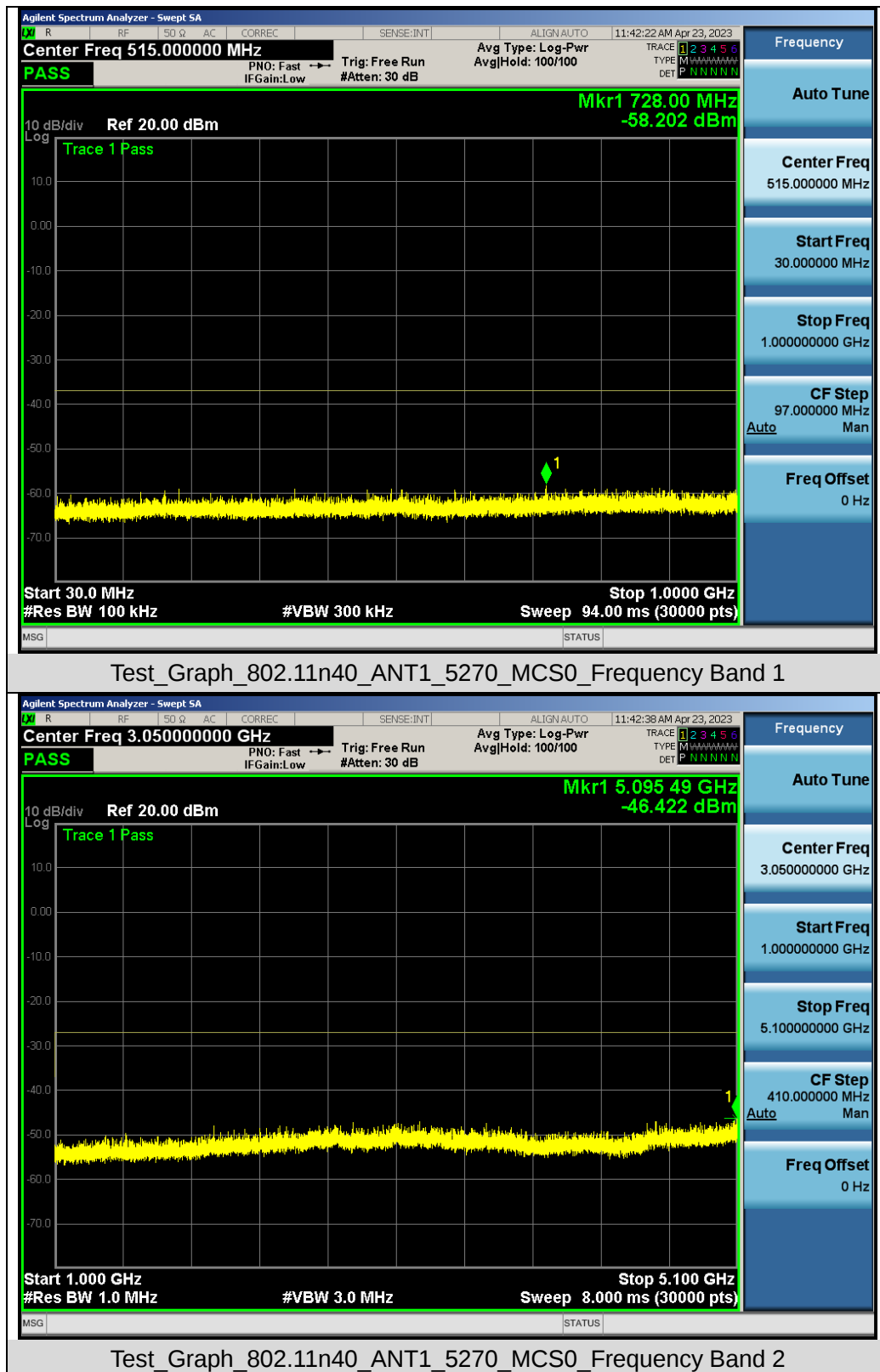
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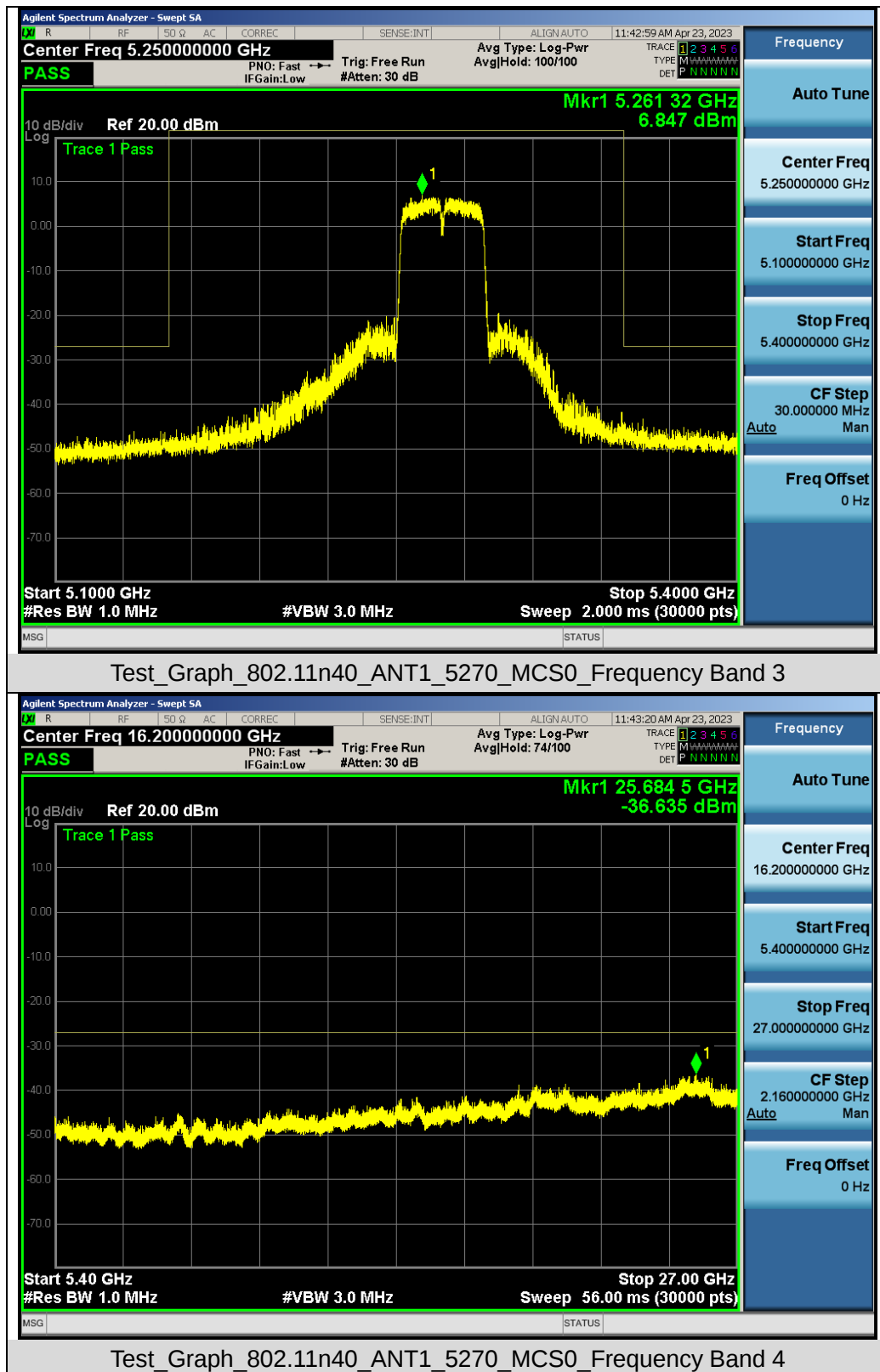
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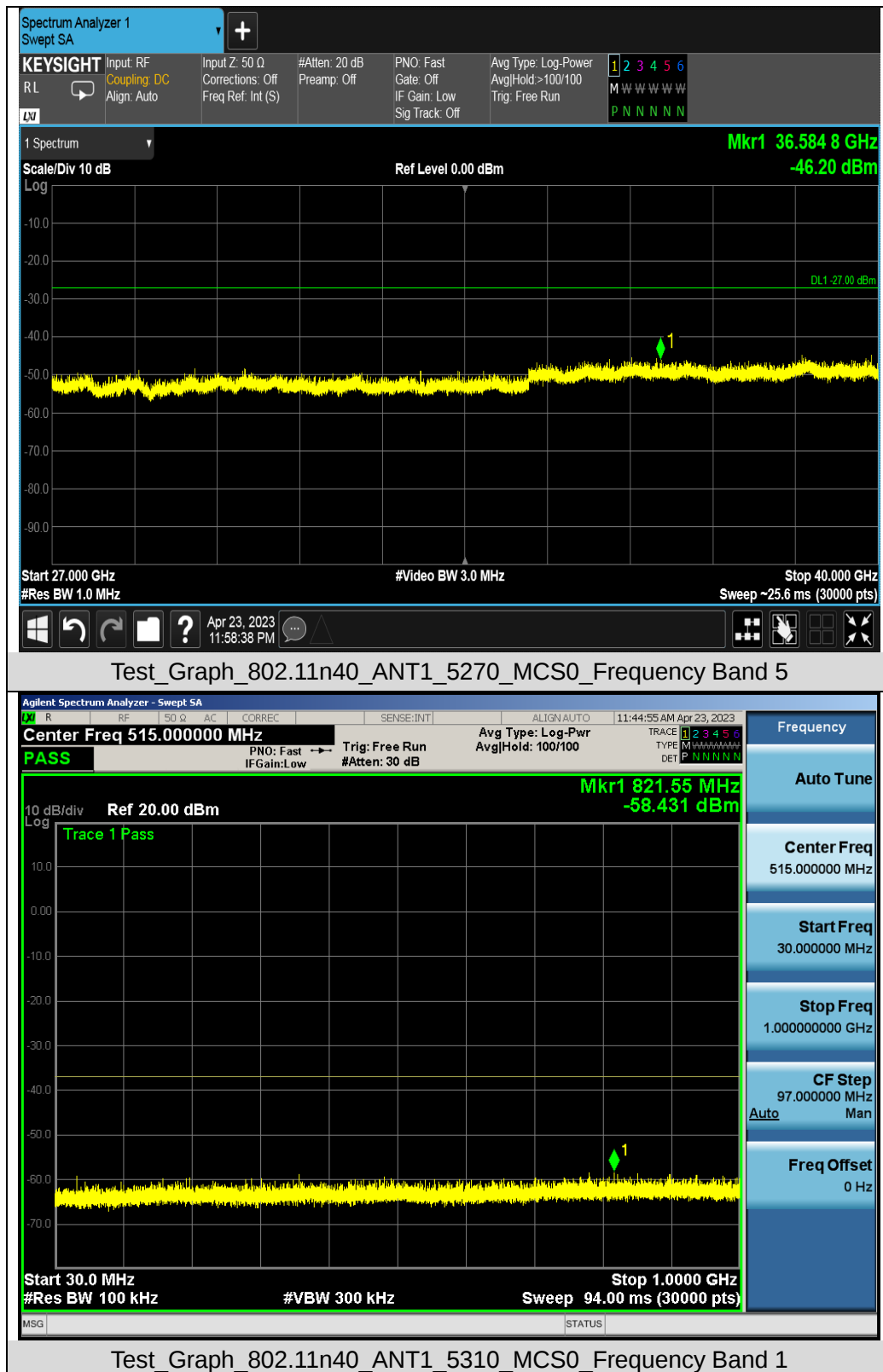
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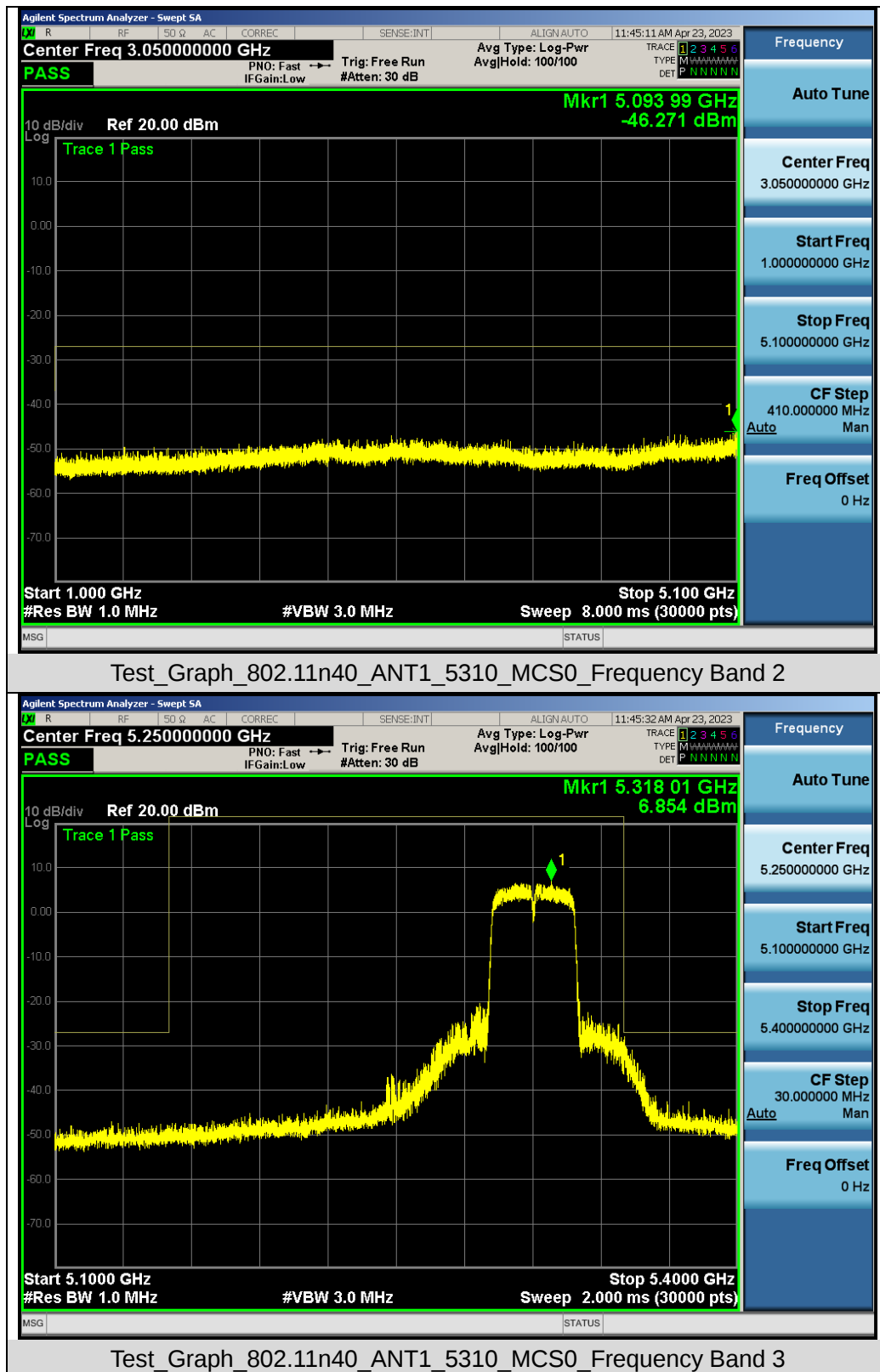
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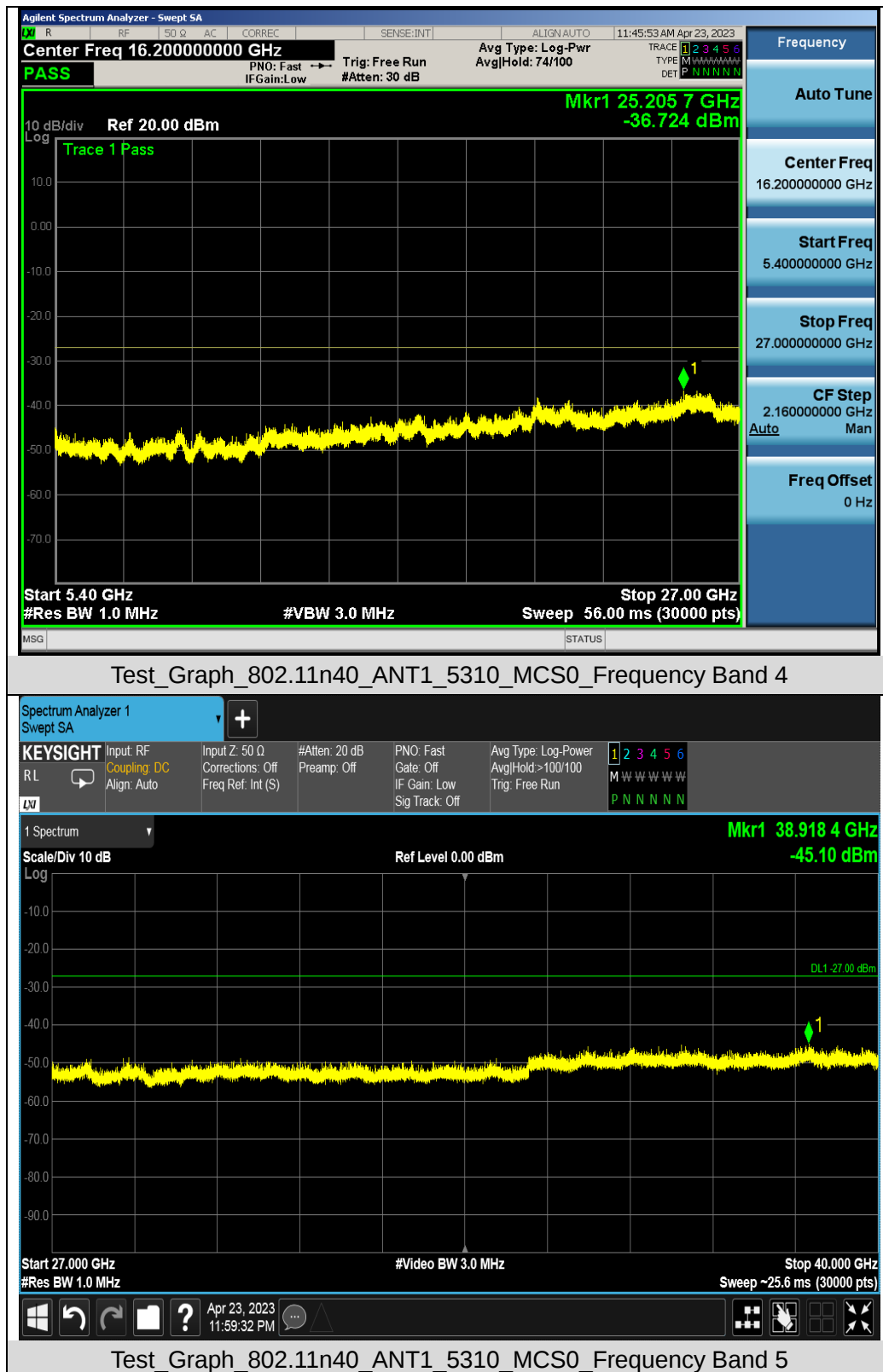
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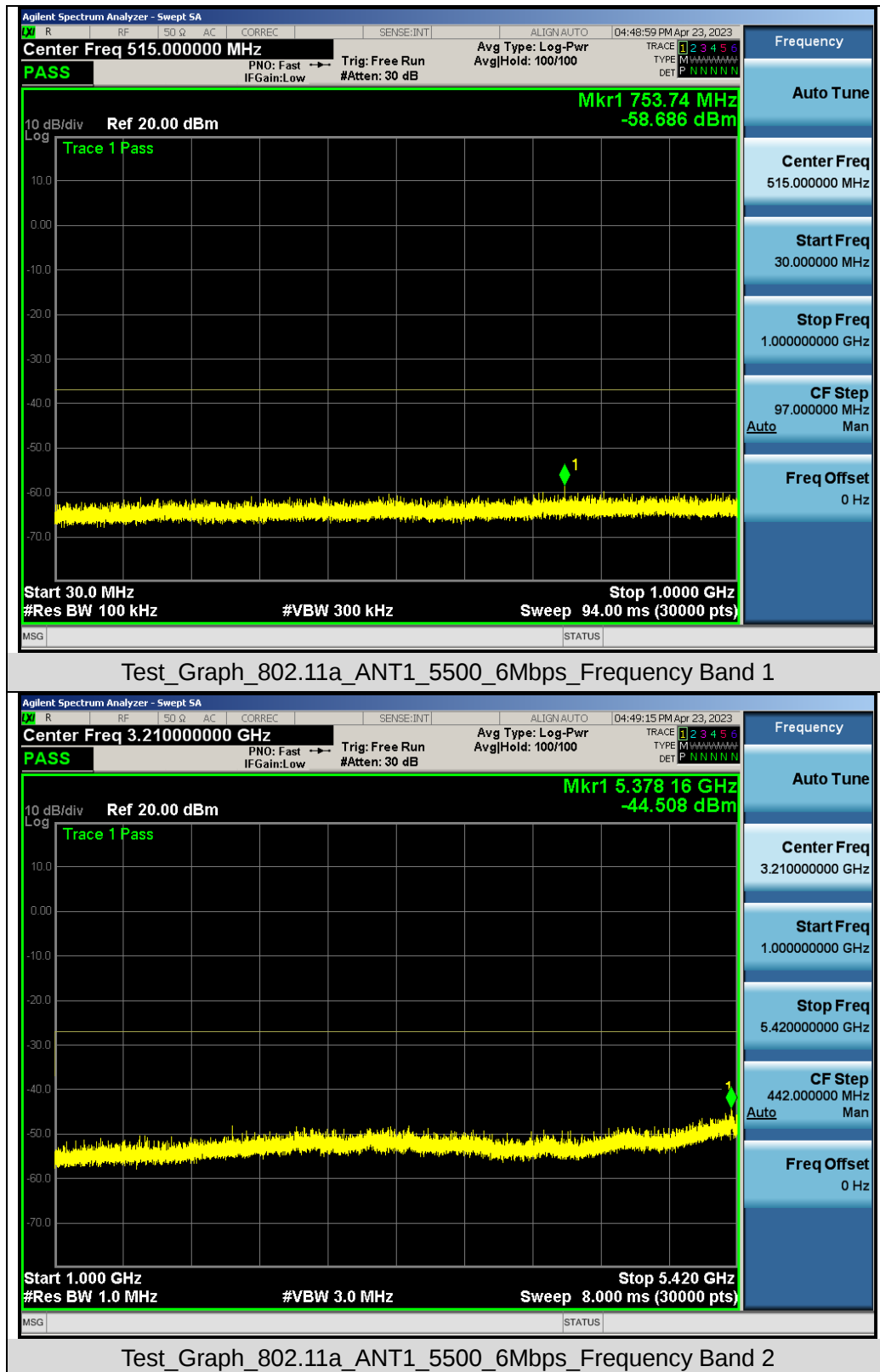


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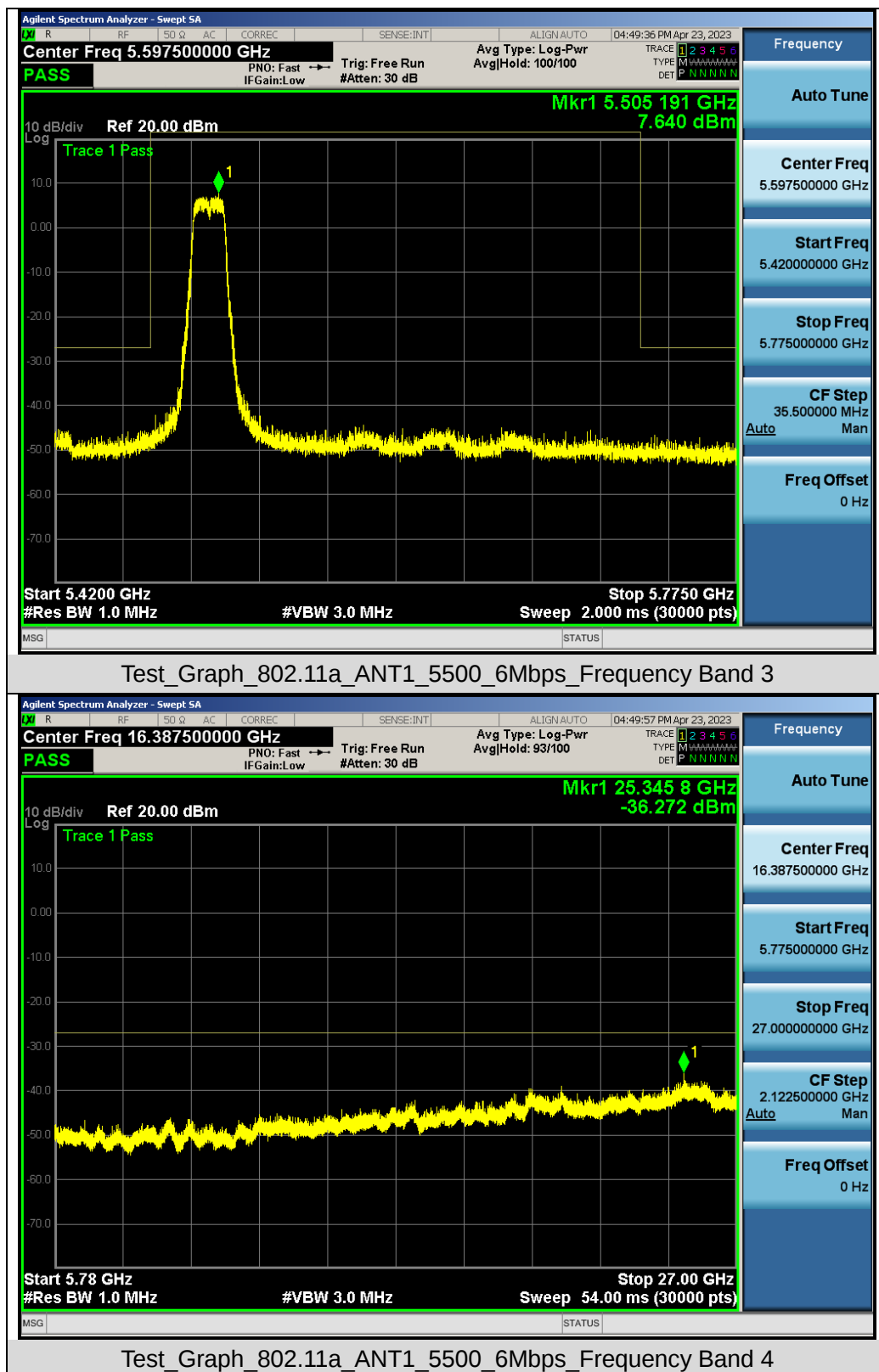


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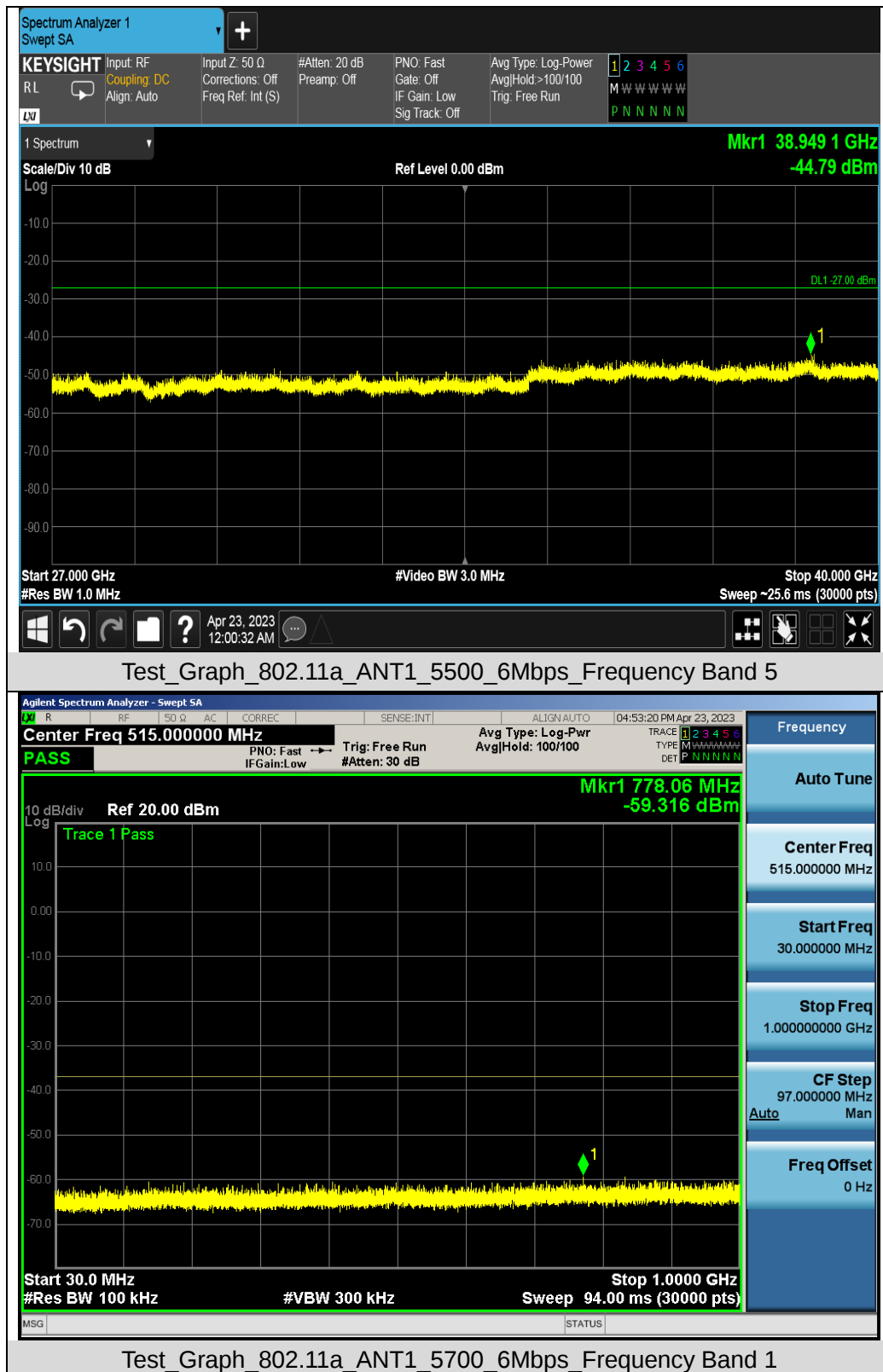
Test Graphs of Spurious Emissions outside of the 5.47-5.725 GHz band for transmitters operating in the 5.47-5.725 GHz band



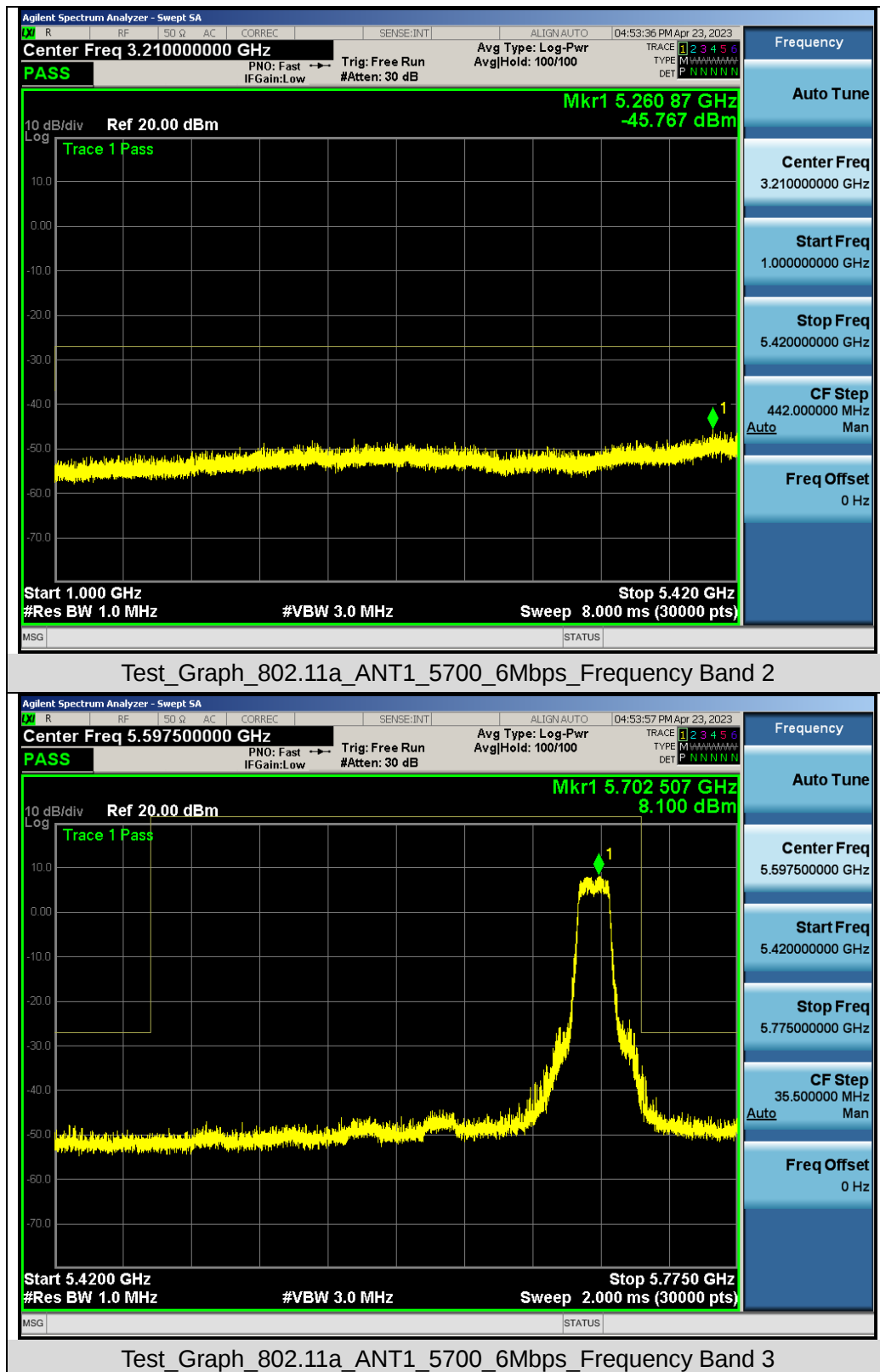
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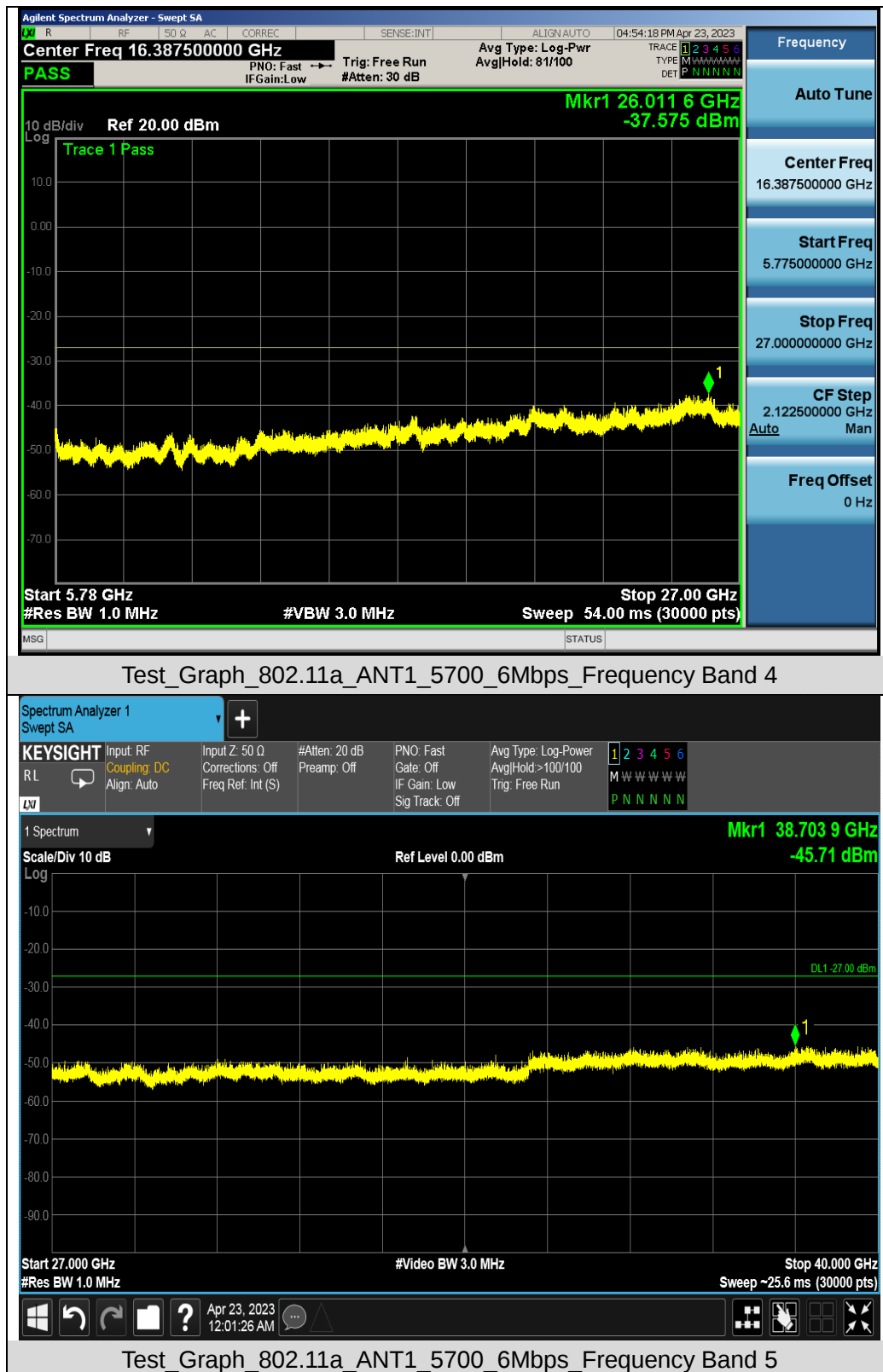
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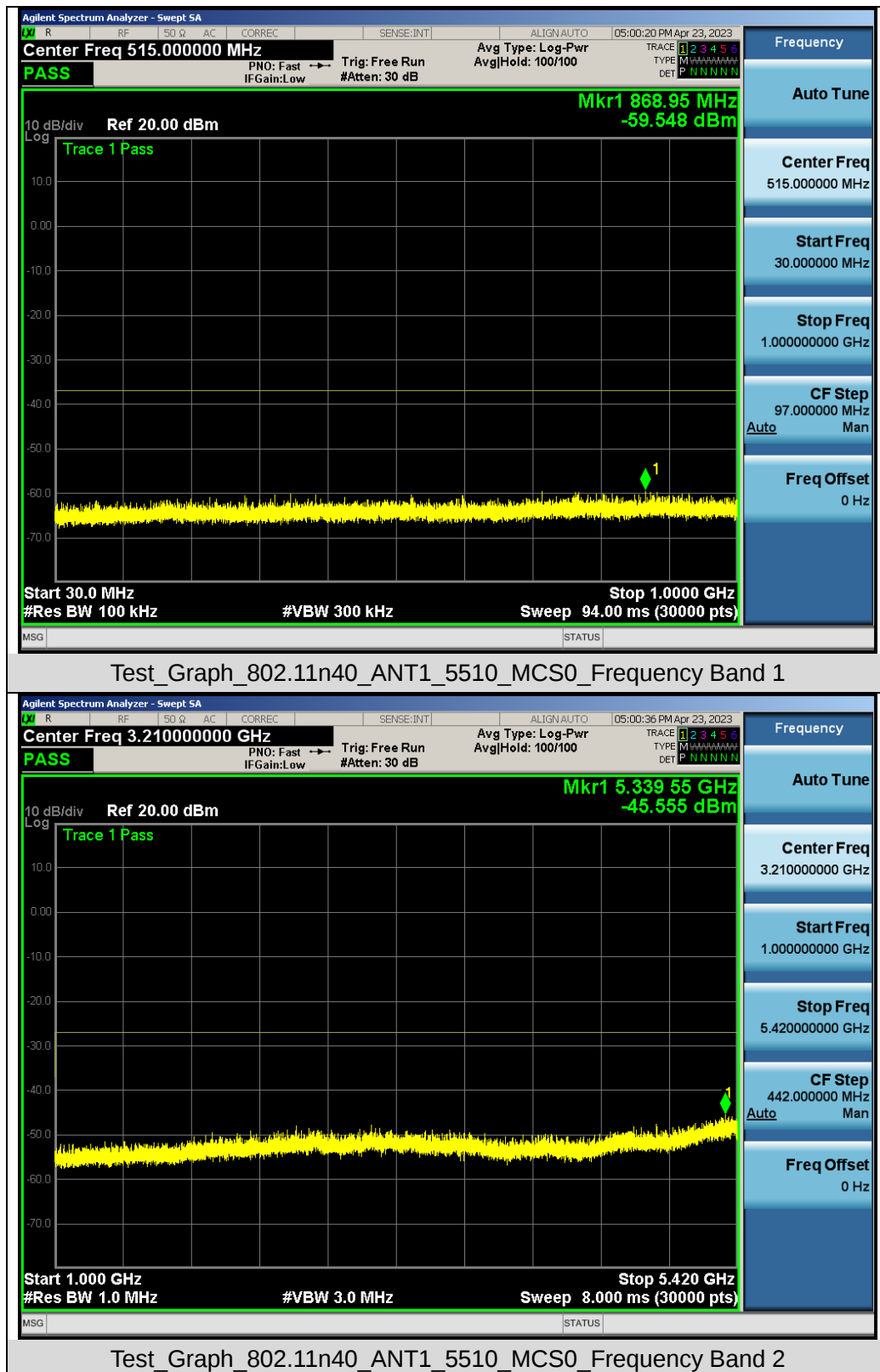
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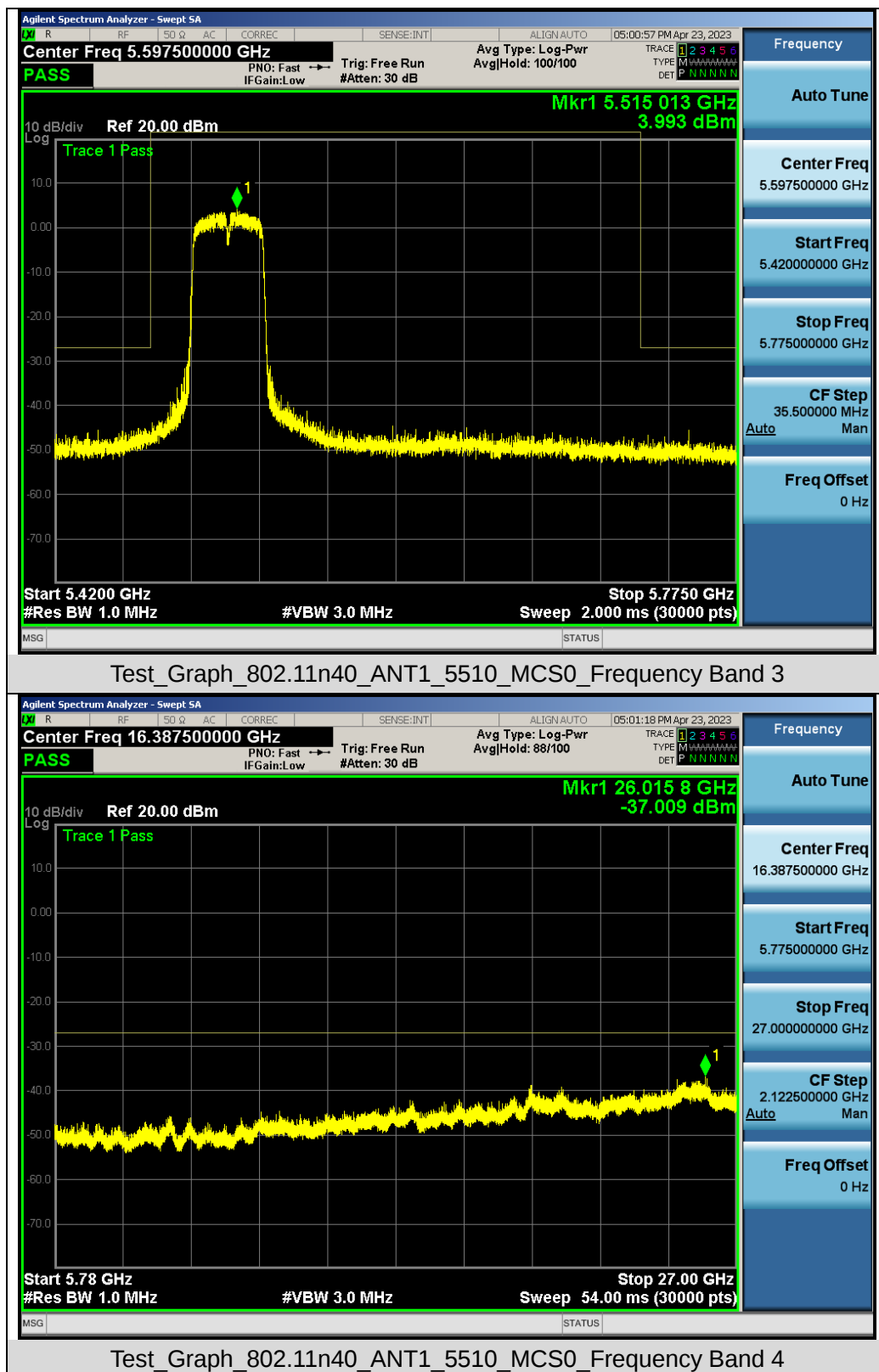
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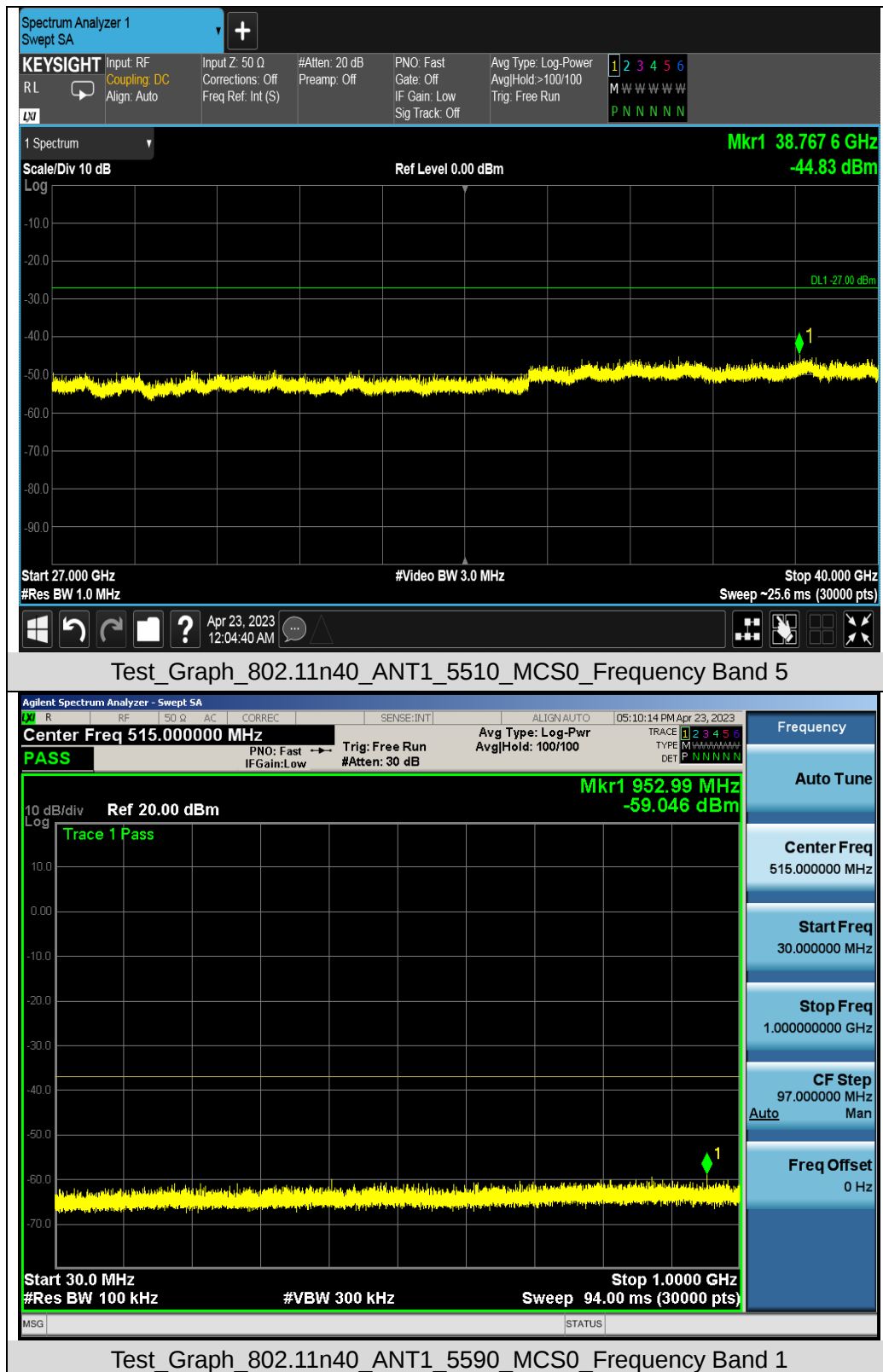
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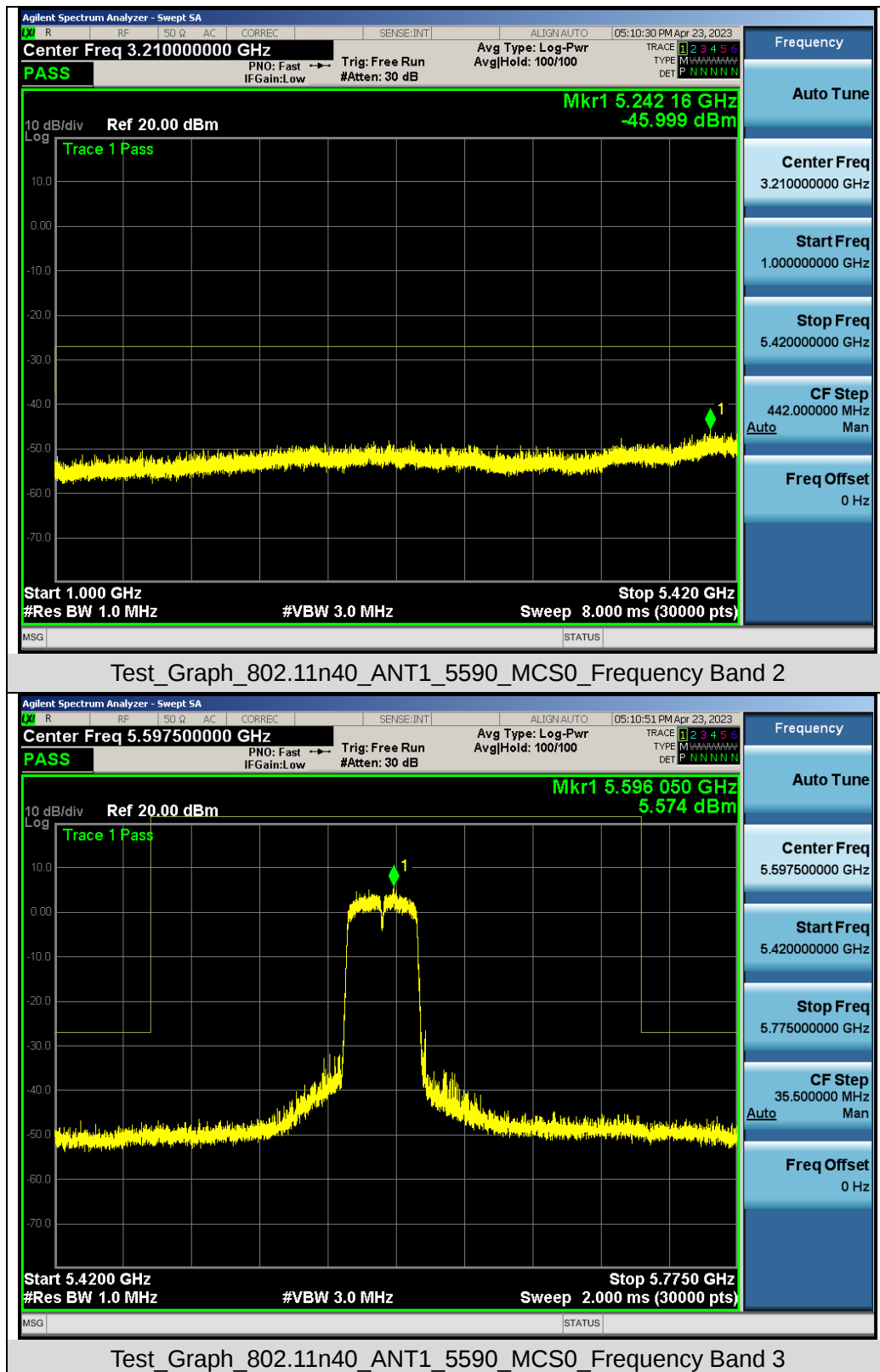
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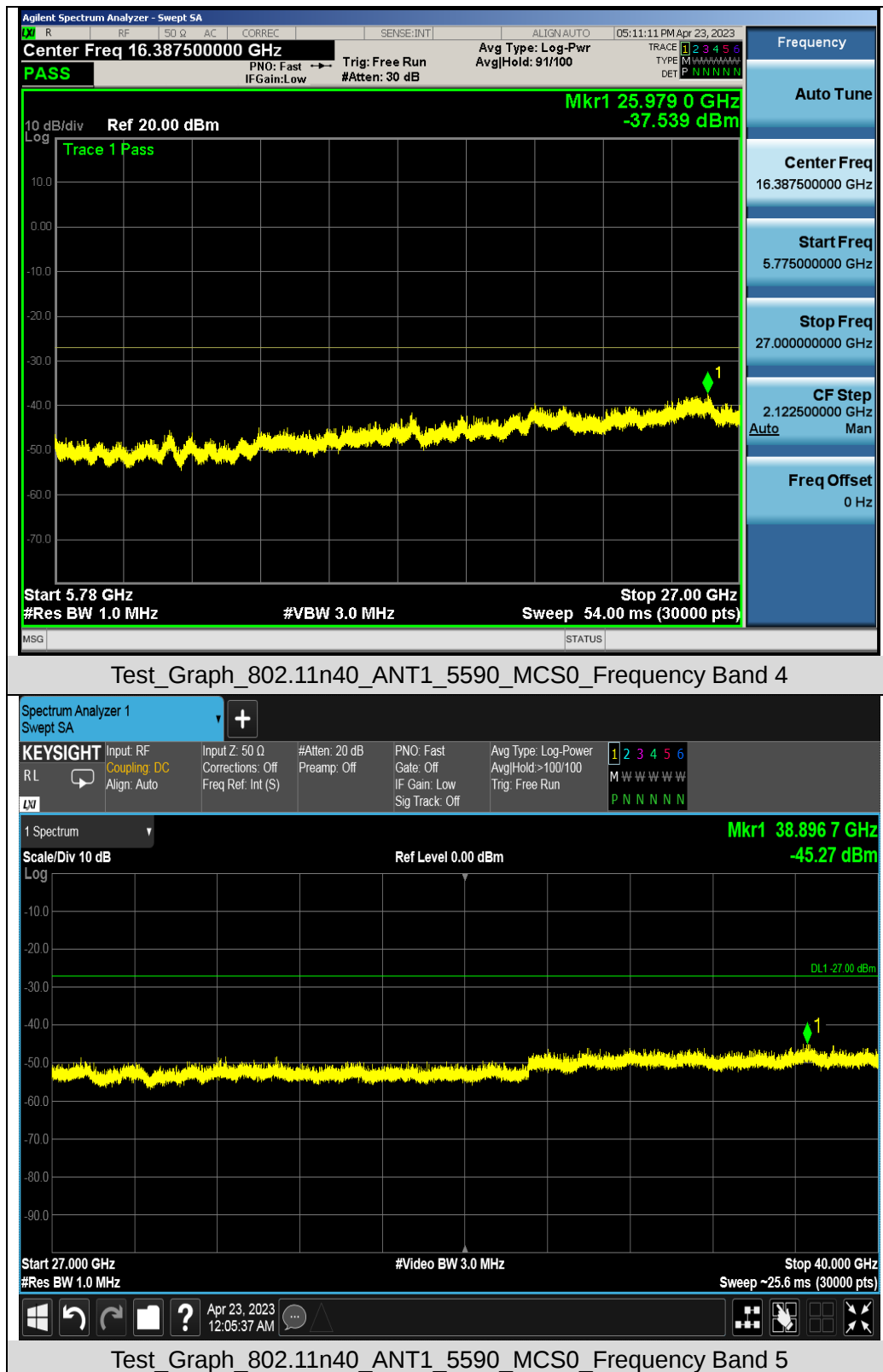
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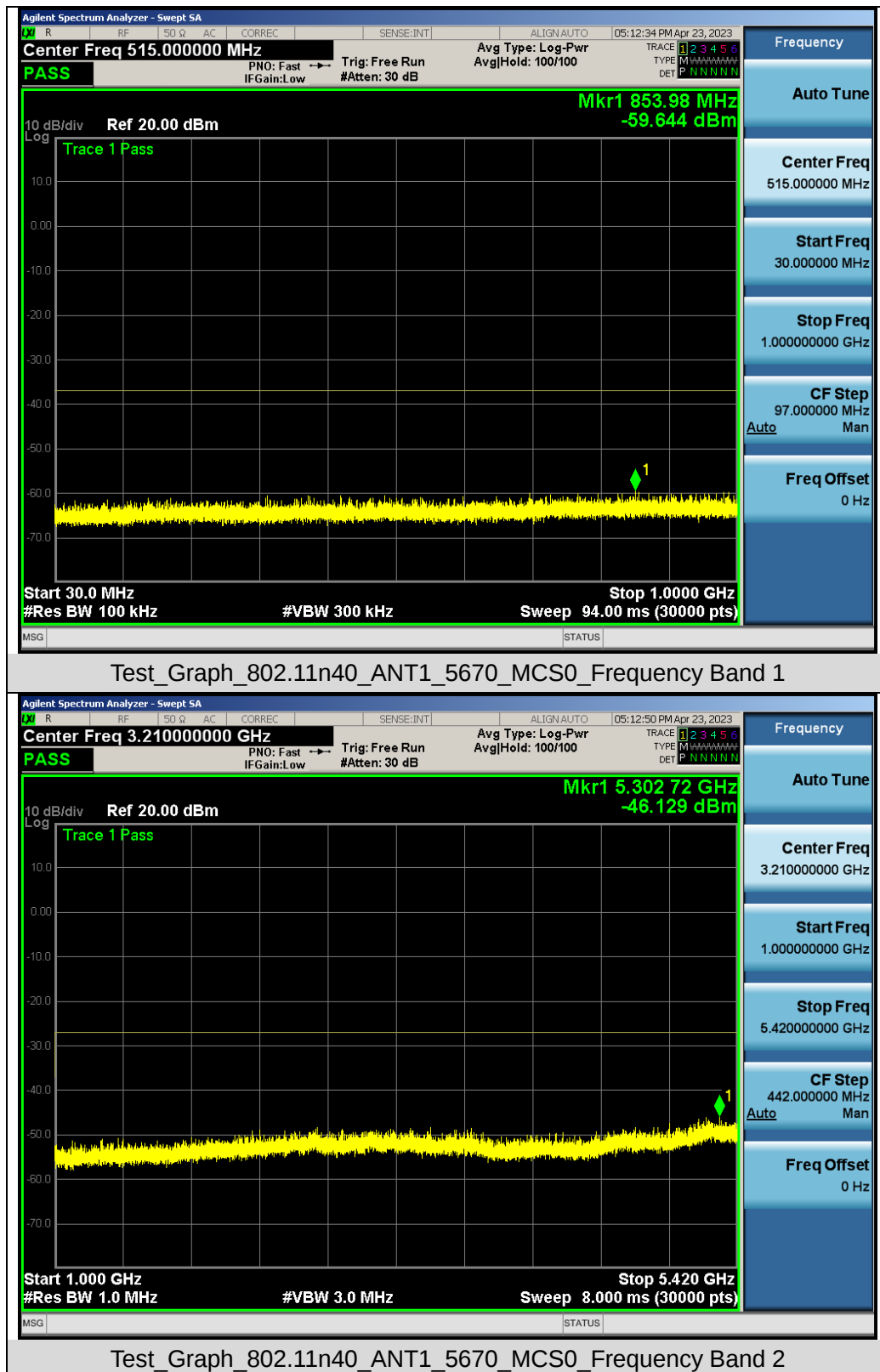


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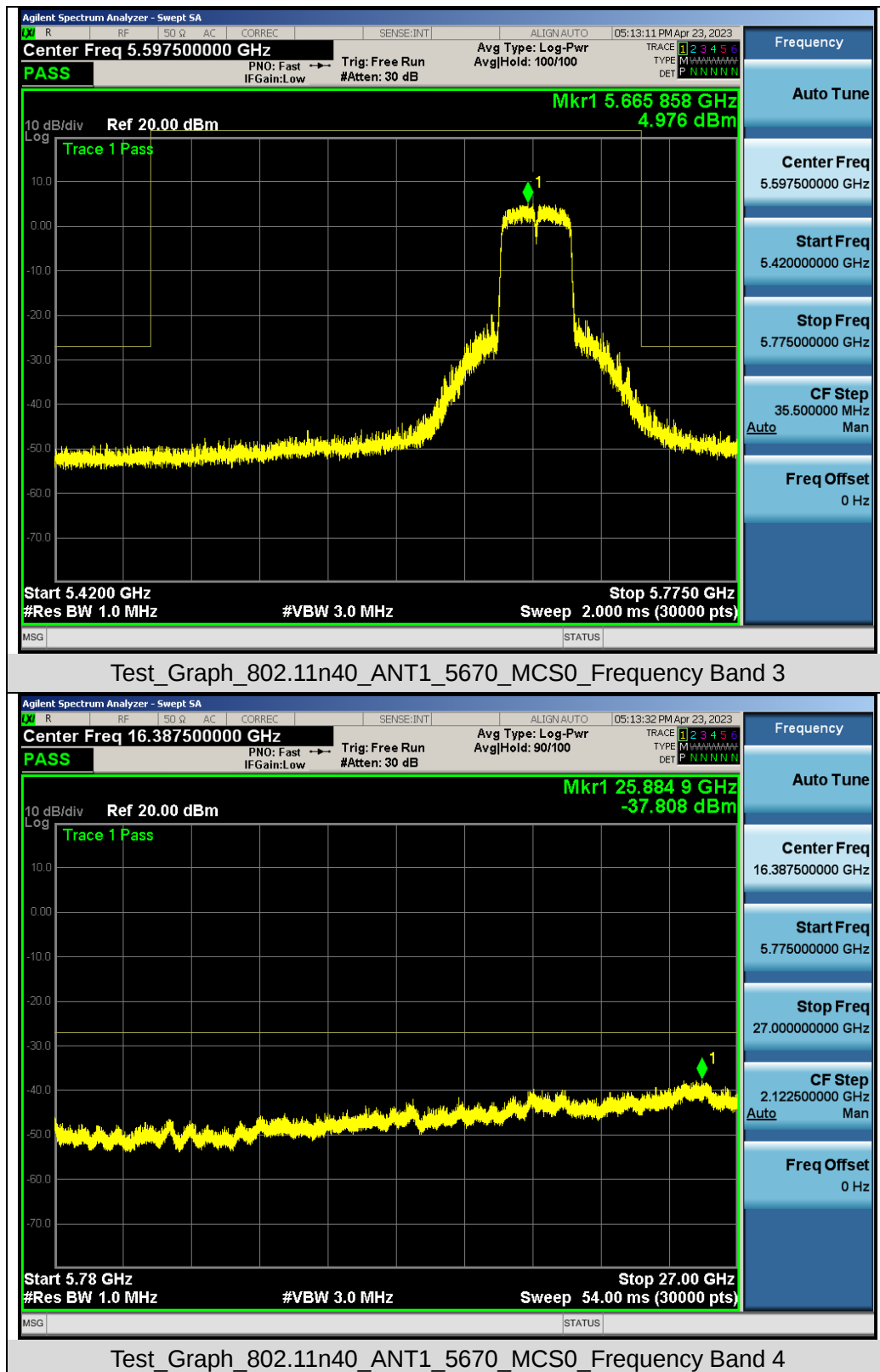


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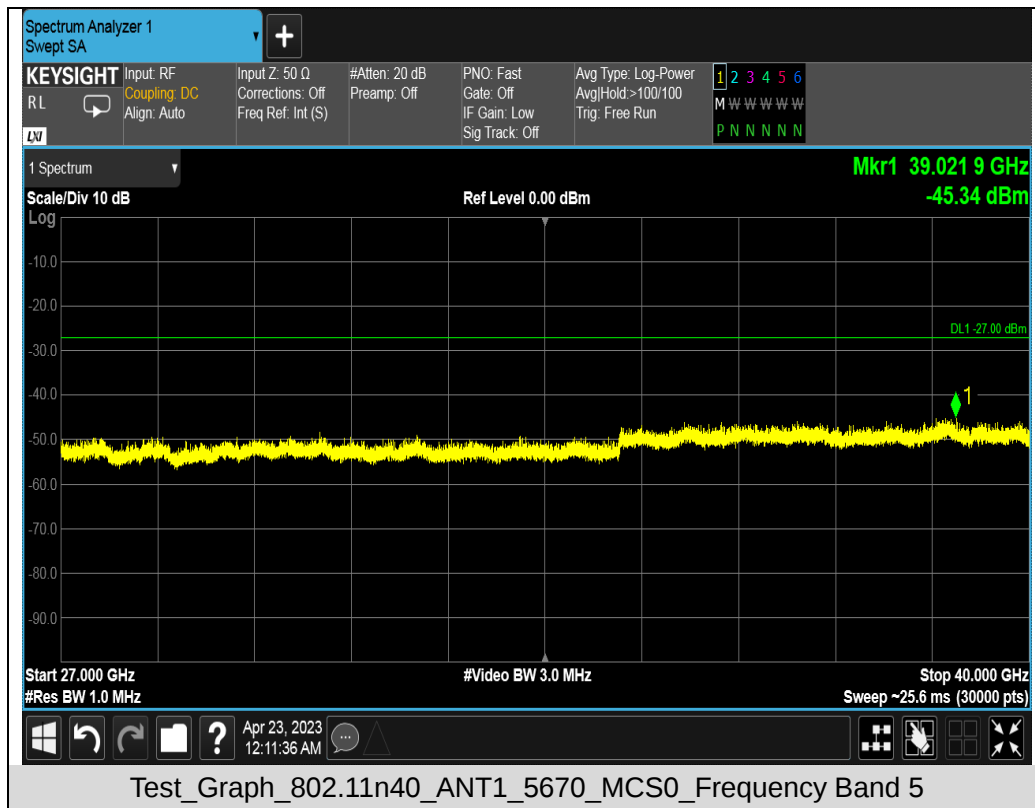
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11. RADIATED EMISSION

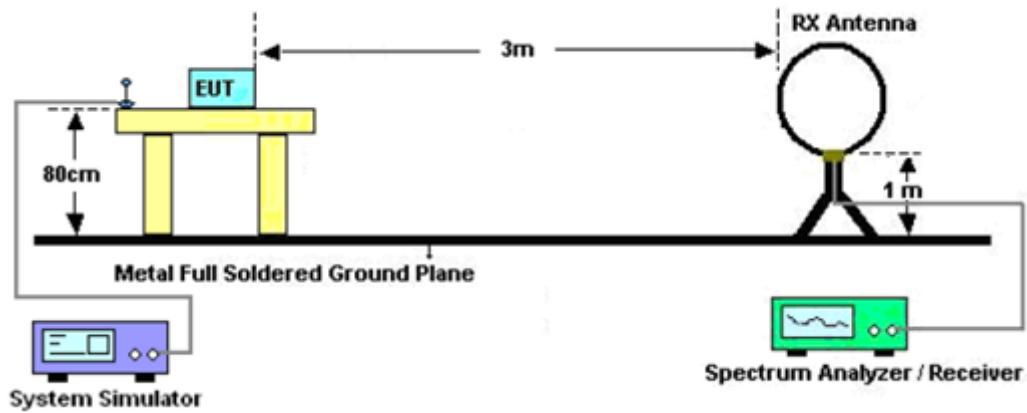
11.1. MEASUREMENT PROCEDURE

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.

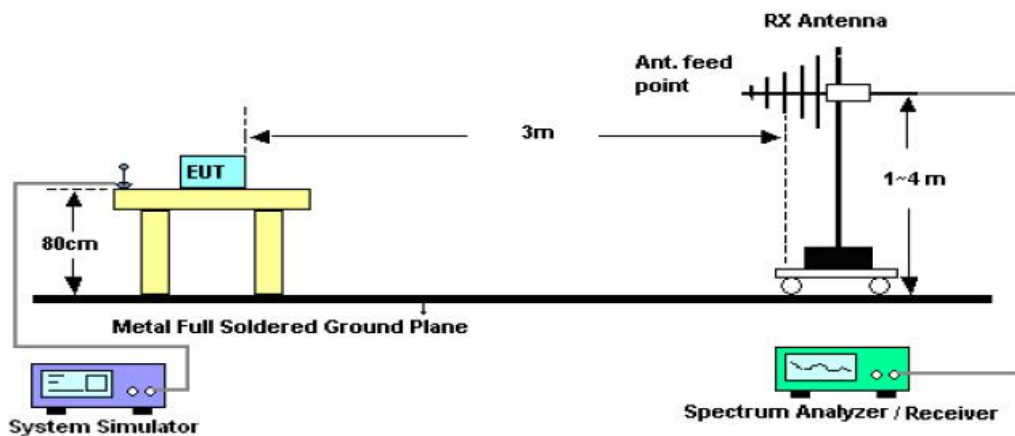
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11.2. TEST SETUP

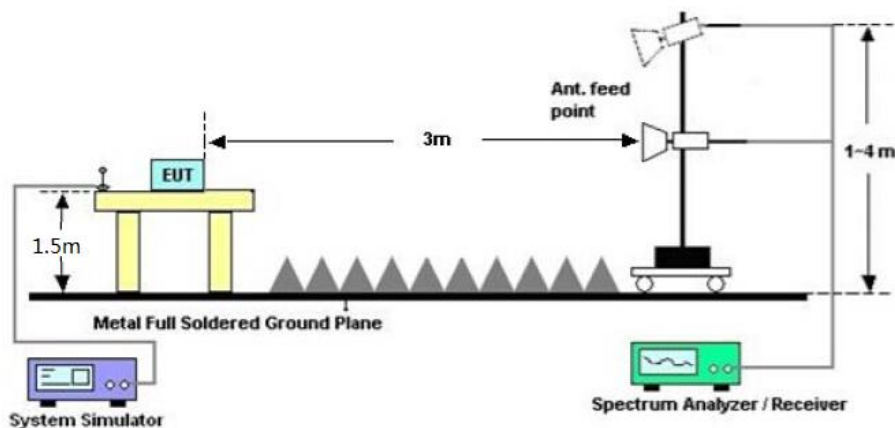
Radiated Emission Test-Setup Frequency Below 30MHz



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

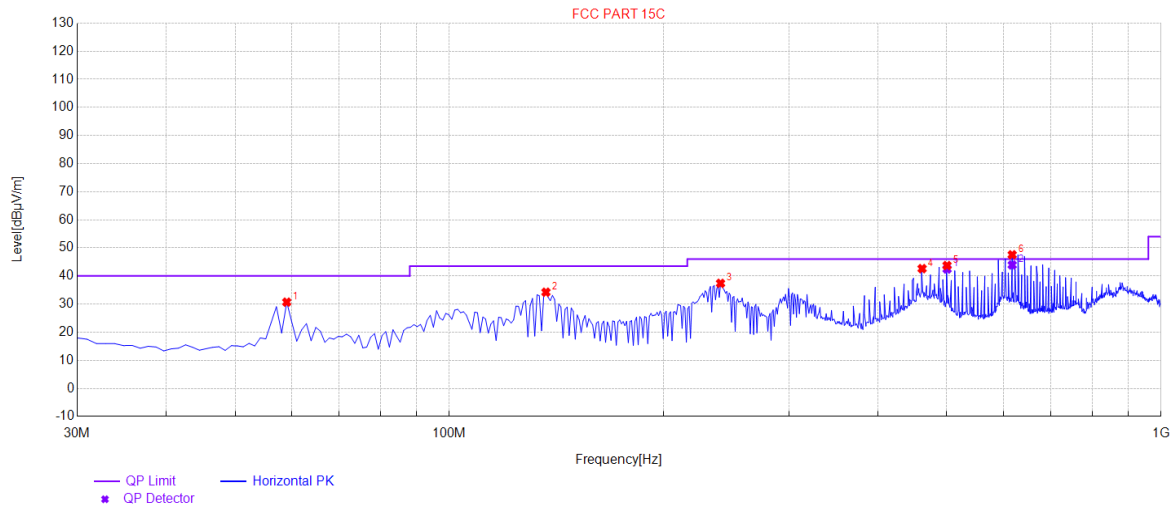
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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Radiated emission from 30MHz to 1000MHz

EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal



Peak data list

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1	30.69	12.74	40.00	9.31	100	56	Horizontal
2	136.7	34.22	14.34	43.50	9.28	100	56	Horizontal
3	240.49	37.38	17.45	46.00	8.62	100	41	Horizontal
4	461.65	42.61	27.49	46.00	3.39	100	230	Horizontal
5	500.45	43.71	23.83	46.00	2.29	100	214	Horizontal
6	617.82	47.55	28.08	46.00	-1.55	100	198	Horizontal

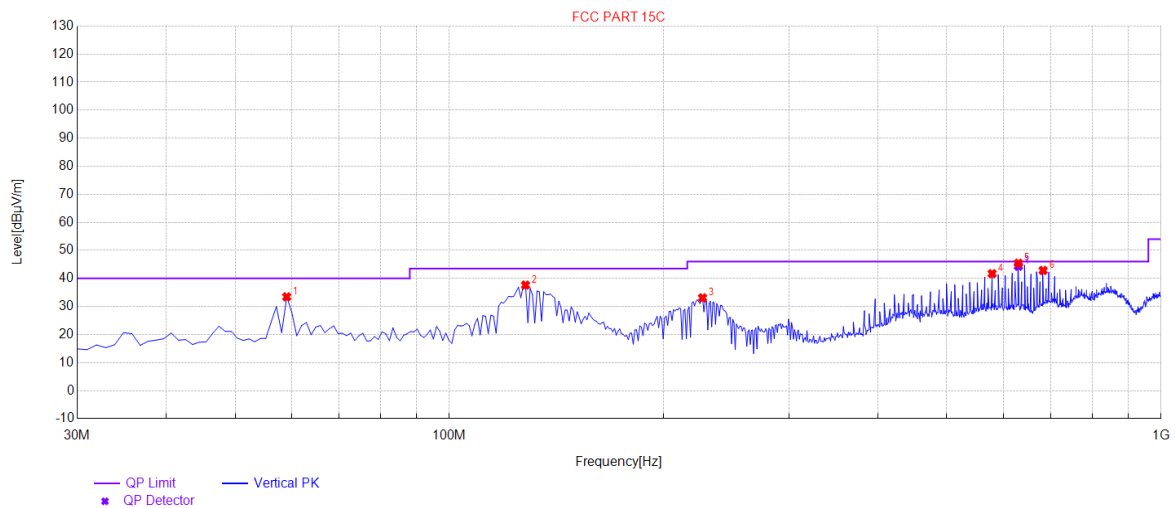
QP data list

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	500.45	23.83	42.46	46.00	3.54	100	214	Horizontal
2	617.82	28.08	43.92	46.00	2.08	100	198	Horizontal

RESULT: PASS

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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Vertical



Peak data list

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1	33.44	14.77	40.00	6.56	100	98	Vertical
2	127.97	37.62	18.41	43.50	5.88	100	228	Vertical
3	226.91	33.08	14.70	46.00	12.92	100	349	Vertical
4	579.02	41.70	25.64	46.00	4.30	100	10	Vertical
5	630.43	45.40	26.43	46.00	0.60	100	295	Vertical
6	682.81	42.84	28.03	46.00	3.16	100	295	Vertical

QP data list

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	630.43	26.43	44.37	46.00	1.63	100	295	Vertical

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5260MHz 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	Integrated Audio Production Studio	Model Name	RODECASTER DUO
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
10520.044	48.46	9.29	57.75	68.20	-10.45	peak
15780.066	41.25	10.42	51.67	74.00	-22.33	peak
15780.066	32.67	10.42	43.09	54.00	-10.91	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
10520.044	48.15	9.29	57.44	68.20	-10.76	peak
15780.066	43.18	10.42	53.60	74.00	-20.40	peak
15780.066	33.67	10.42	44.09	54.00	-9.91	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Integrated Audio Production Studio	Model Name	RODECASTER DUO
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
10600.044	48.62	9.31	57.93	74.00	-16.07	peak
10600.044	38.42	9.31	47.73	54.00	-6.27	AVG
15900.066	42.15	10.44	52.59	74.00	-21.41	peak
15900.066	32.49	10.44	42.93	54.00	-11.07	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
10600.044	49.64	9.31	58.95	74.00	-15.05	peak
10600.044	38.54	9.31	47.85	54.00	-6.15	AVG
15780.066	42.12	10.44	52.56	74.00	-21.44	peak
15780.066	33.47	10.44	43.91	54.00	-10.09	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Integrated Audio Production Studio	Model Name	RODECASTER DUO
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
10640.044	47.64	9.35	56.99	74.00	-17.01	peak
10640.044	37.54	9.35	46.89	54.00	-7.11	AVG
15960.066	42.15	10.46	52.61	74.00	-21.39	peak
15960.066	32.46	10.46	42.92	54.00	-11.08	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
10640.044	48.64	9.35	57.99	74.00	-16.01	peak
10640.044	38.54	9.35	47.89	54.00	-6.11	AVG
15960.066	42.15	10.46	52.61	74.00	-21.39	peak
15960.066	32.15	10.46	42.61	54.00	-11.39	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Integrated Audio Production Studio	Model Name	RODECASTER DUO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	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
11000.044	49.64	9.37	59.01	74.00	-14.99	peak
11000.044	38.54	9.37	47.91	54.00	-6.09	AVG
16500.066	42.25	10.48	52.73	68.20	-15.47	peak
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
11000.044	47.64	9.37	57.01	74.00	-16.99	peak
11000.044	36.24	9.37	45.61	54.00	-8.39	AVG
16500.066	42.15	10.48	52.63	68.20	-15.57	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Integrated Audio Production Studio	Model Name	RODECASTER DUO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5600MHz	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
11200.044	48.67	9.38	58.05	74.00	-15.95	peak
11200.044	39.51	9.38	48.89	54.00	-5.11	AVG
16800.066	42.15	10.49	52.64	68.20	-15.56	peak
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
11200.044	47.64	9.38	57.02	74.00	-16.98	peak
11200.044	38.15	9.38	47.53	54.00	-6.47	AVG
16800.066	42.34	10.49	52.83	68.20	-15.37	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Integrated Audio Production Studio	Model Name	RODECASTER DUO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5700MHz	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
11400.044	49.64	9.39	59.03	74.00	-14.97	peak
11400.044	38.54	9.39	47.93	54.00	-6.07	AVG
17100.066	41.25	10.49	51.74	68.20	-16.46	peak
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
11400.044	47.64	9.39	57.03	74.00	-16.97	peak
11400.044	36.25	9.39	45.64	54.00	-8.36	AVG
17100.066	42.15	10.49	52.64	68.20	-15.56	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

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.

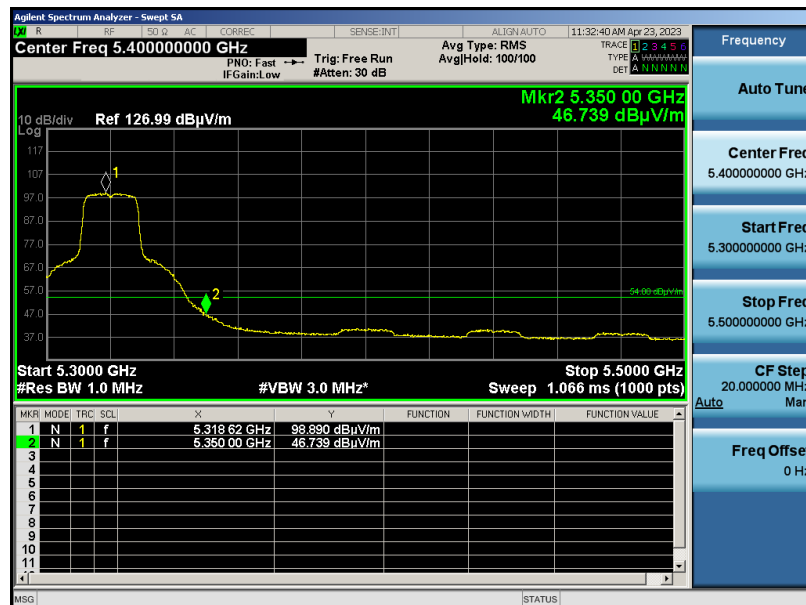
Test result for band edge emission at restricted bands

EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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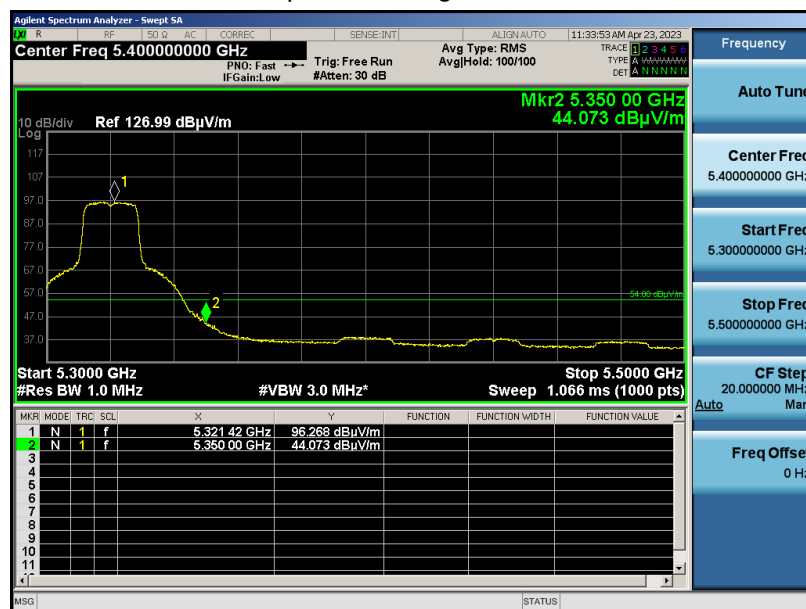
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



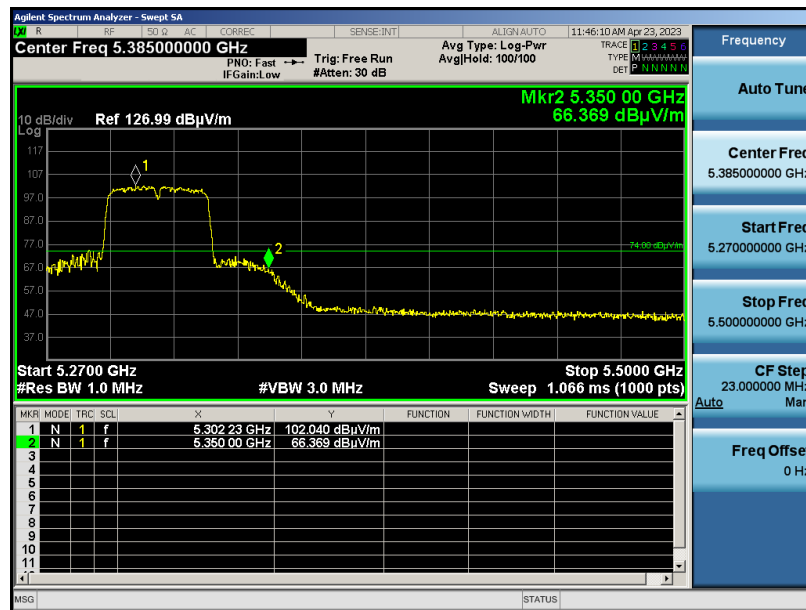
RESULT: PASS

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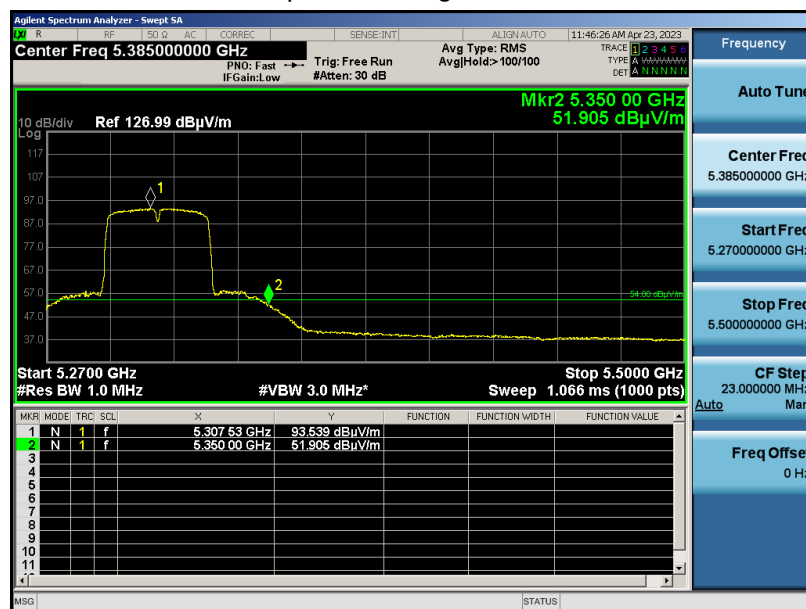
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5310MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



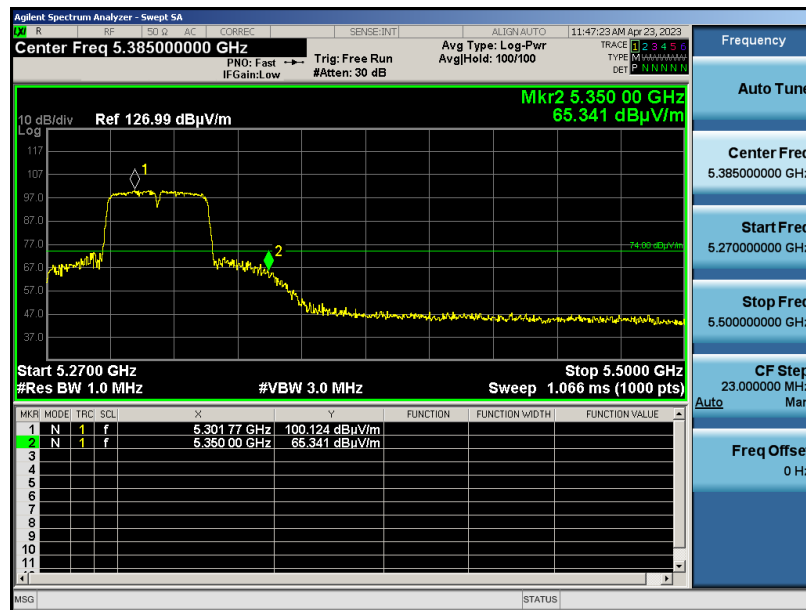
RESULT: PASS

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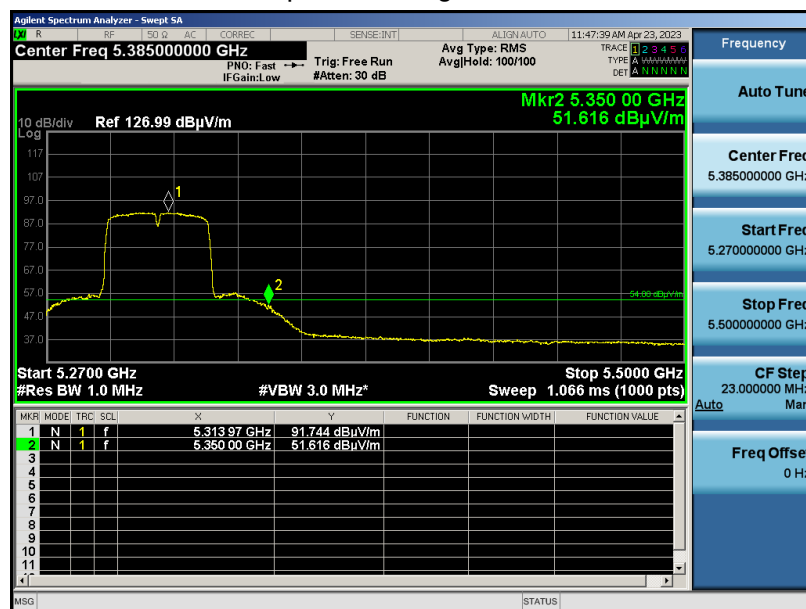
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5310MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



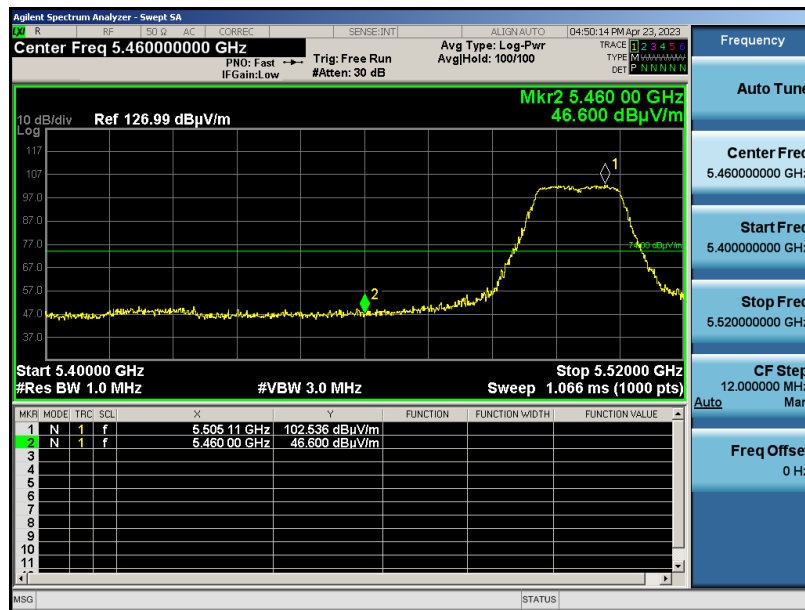
RESULT: PASS

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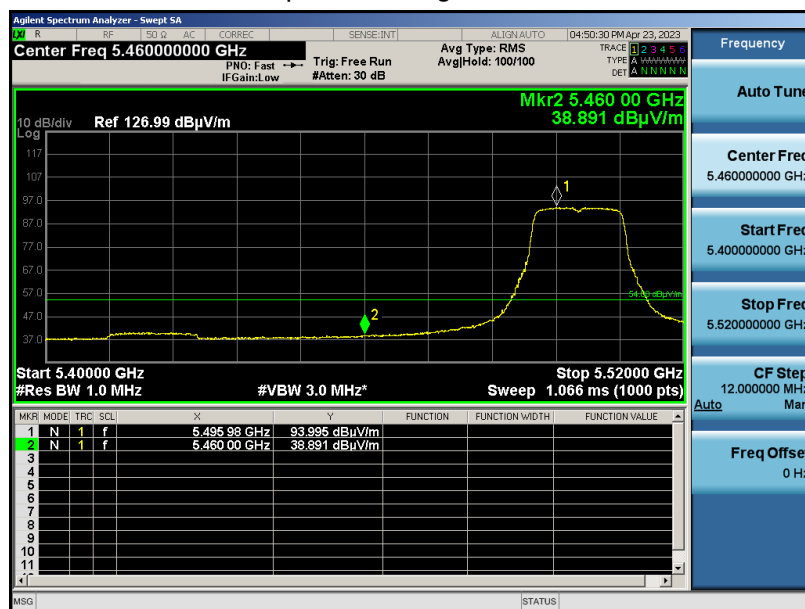
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



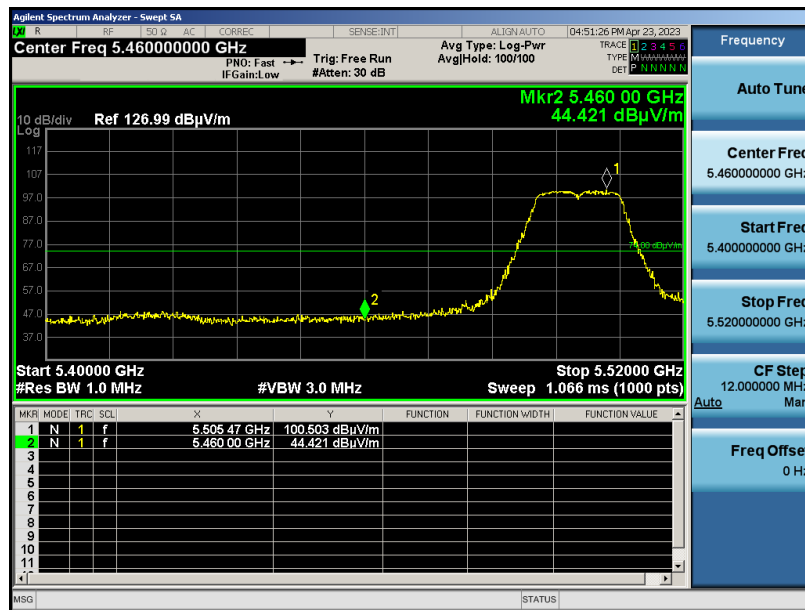
RESULT: PASS

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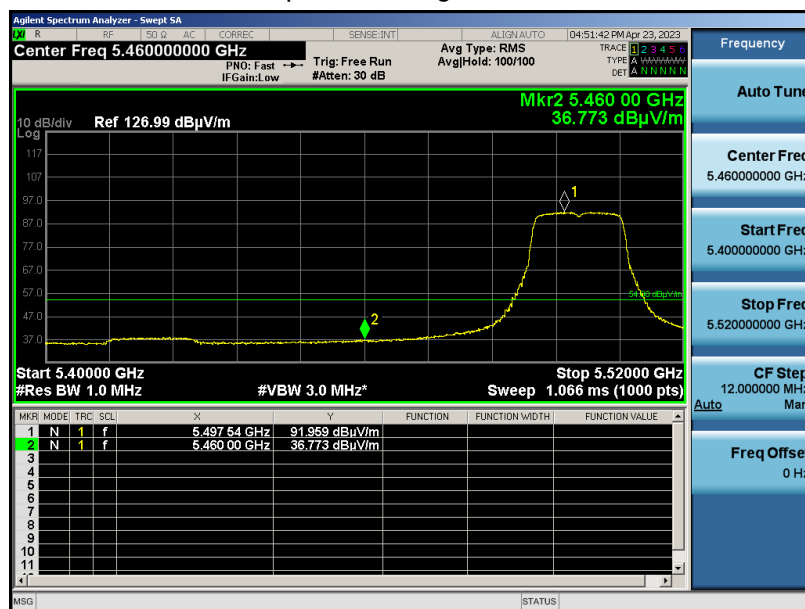
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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