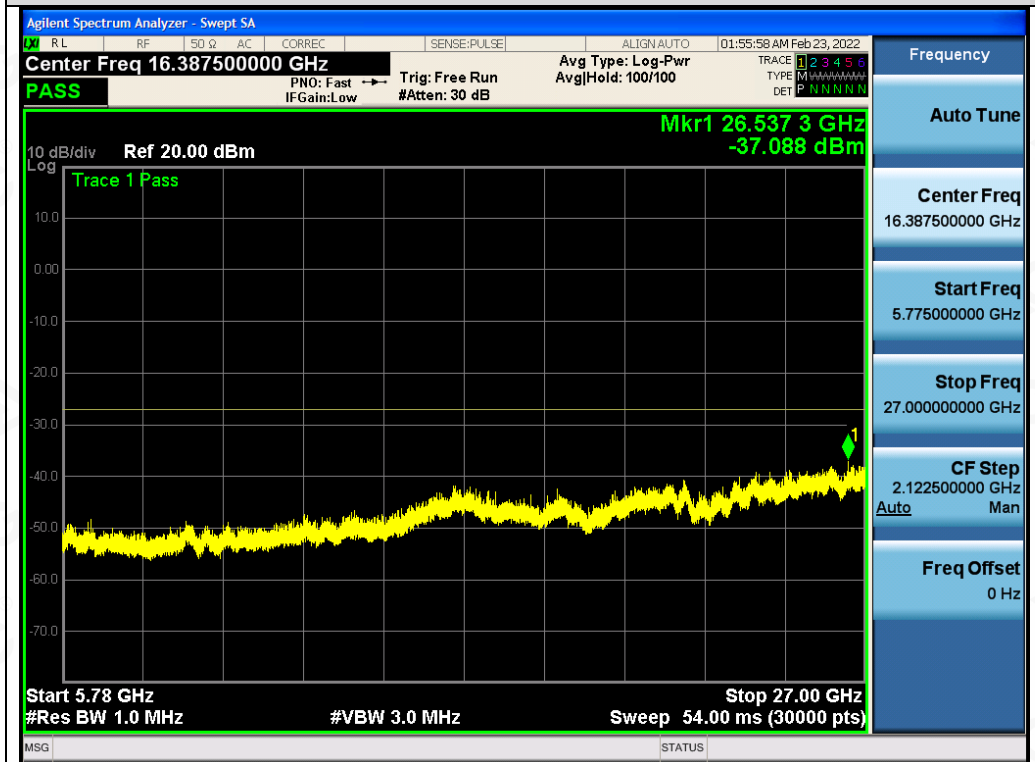


Test\_Graph\_802.11a\_ANT2\_5700\_6Mbps\_Frequency Band 3

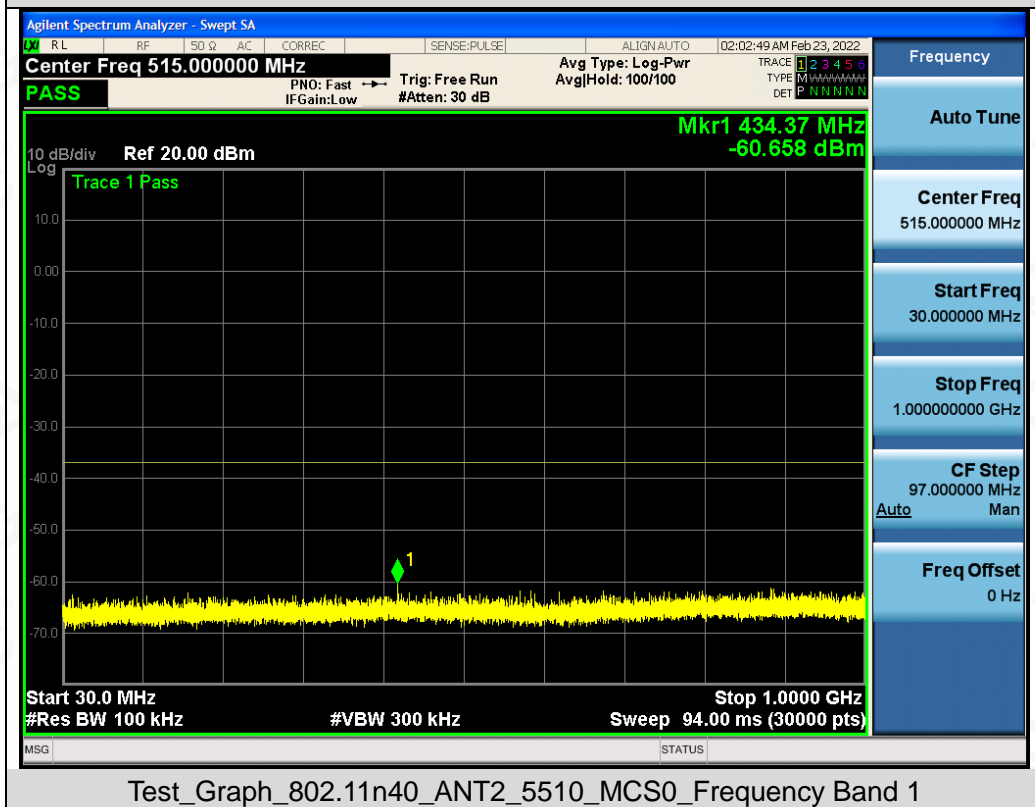
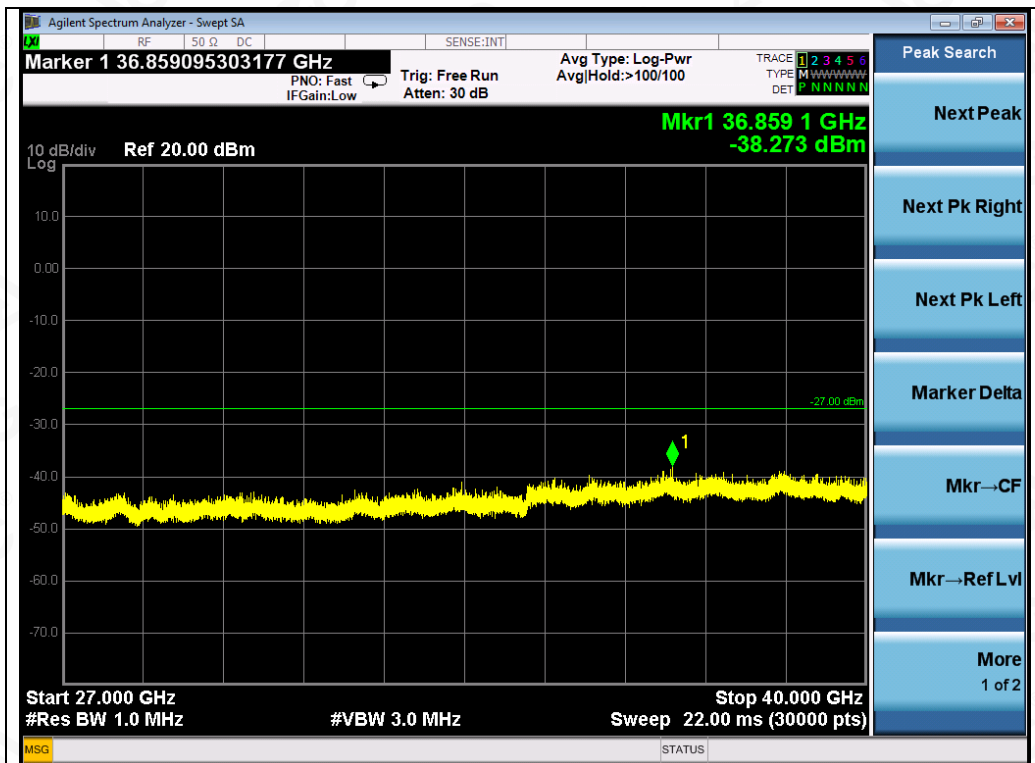


Test\_Graph\_802.11a\_ANT2\_5700\_6Mbps\_Frequency Band 4

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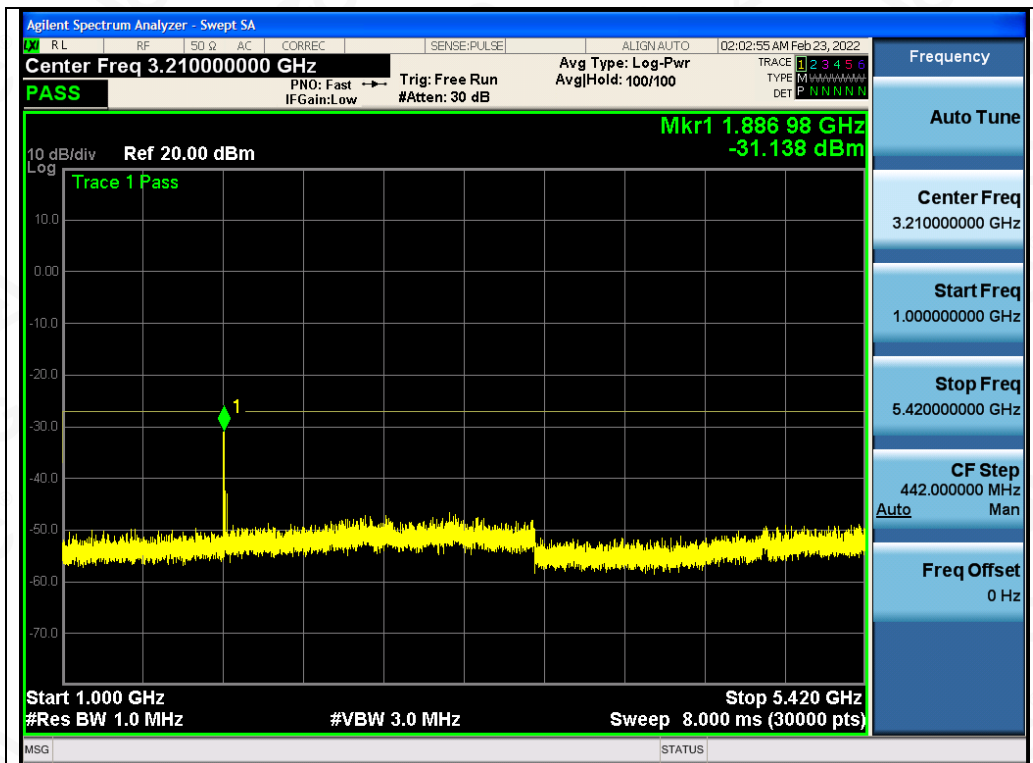




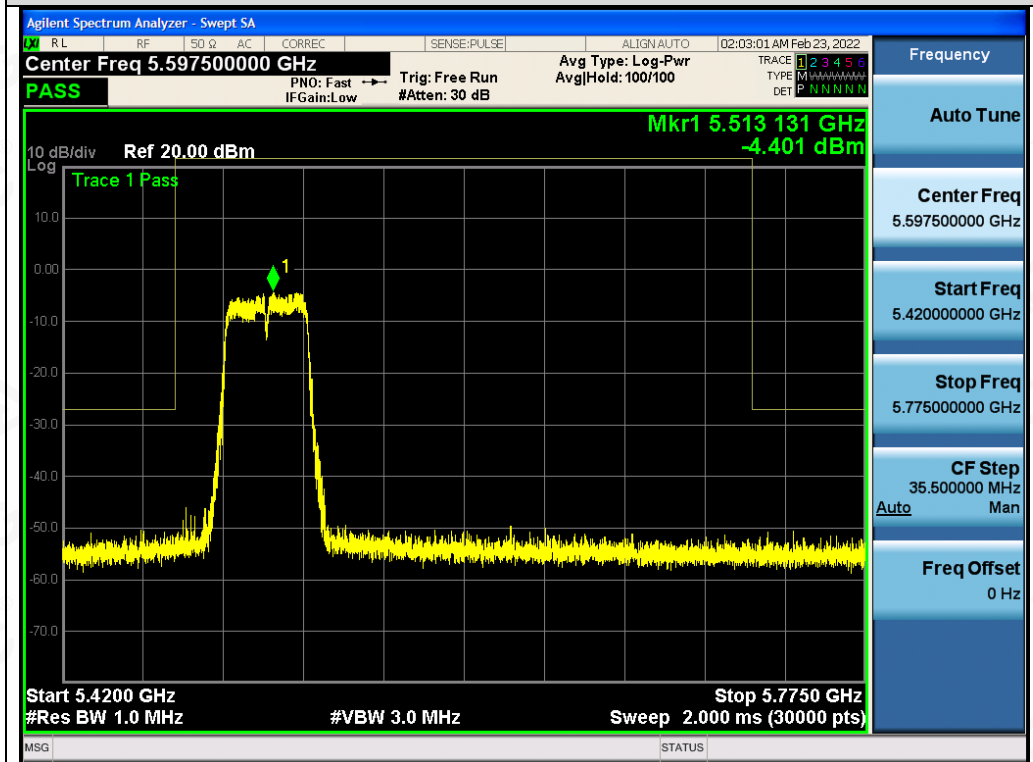
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Test\_Graph\_802.11n40\_ANT2\_5510\_MCS0\_Frequency Band 2

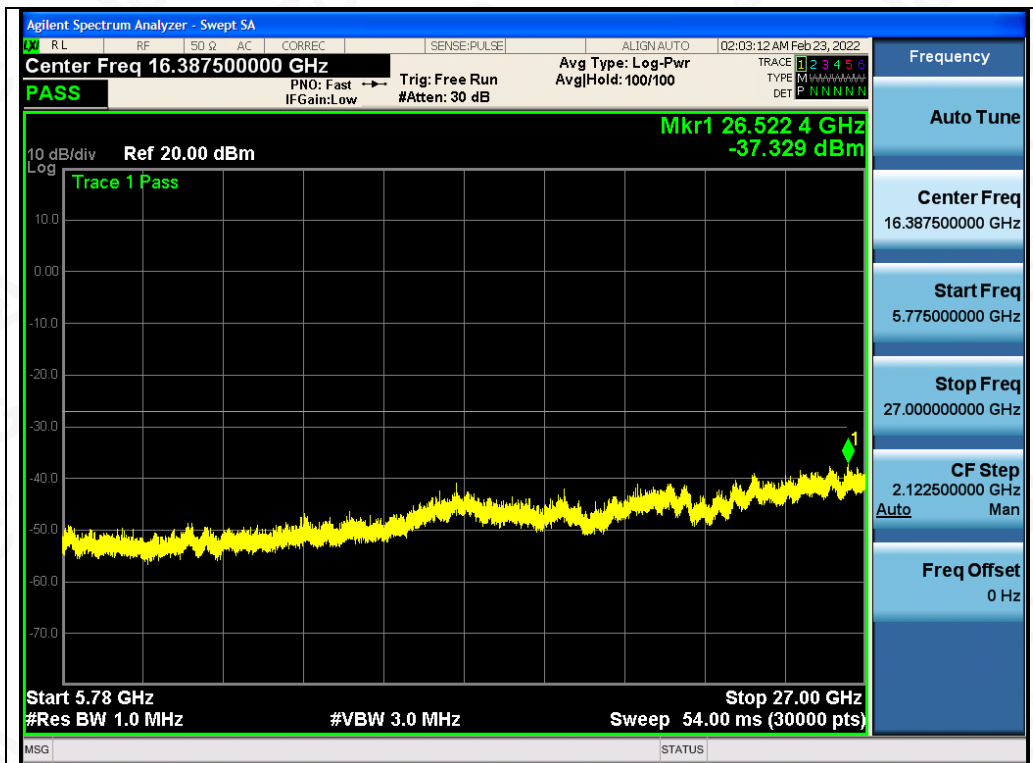


Test\_Graph\_802.11n40\_ANT2\_5510\_MCS0\_Frequency Band 3

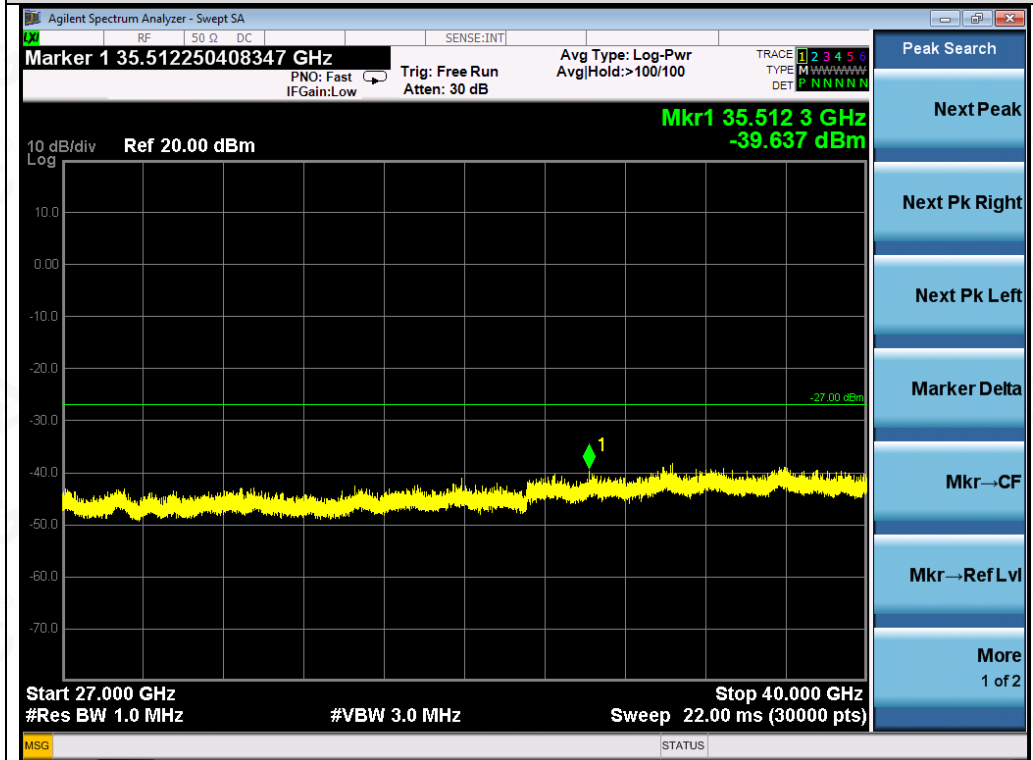
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Test\_Graph\_802.11n40\_ANT2\_5510\_MCS0\_Frequency Band 4

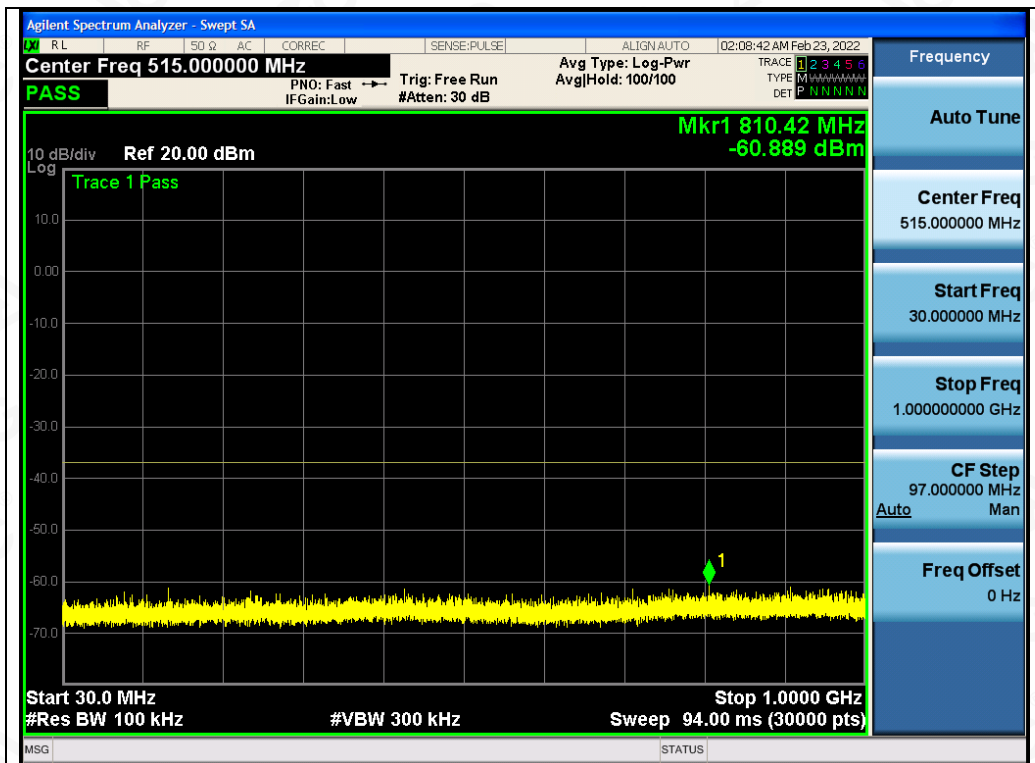


Test\_Graph\_802.11n40\_ANT2\_5510\_MCS0\_Frequency Band 5

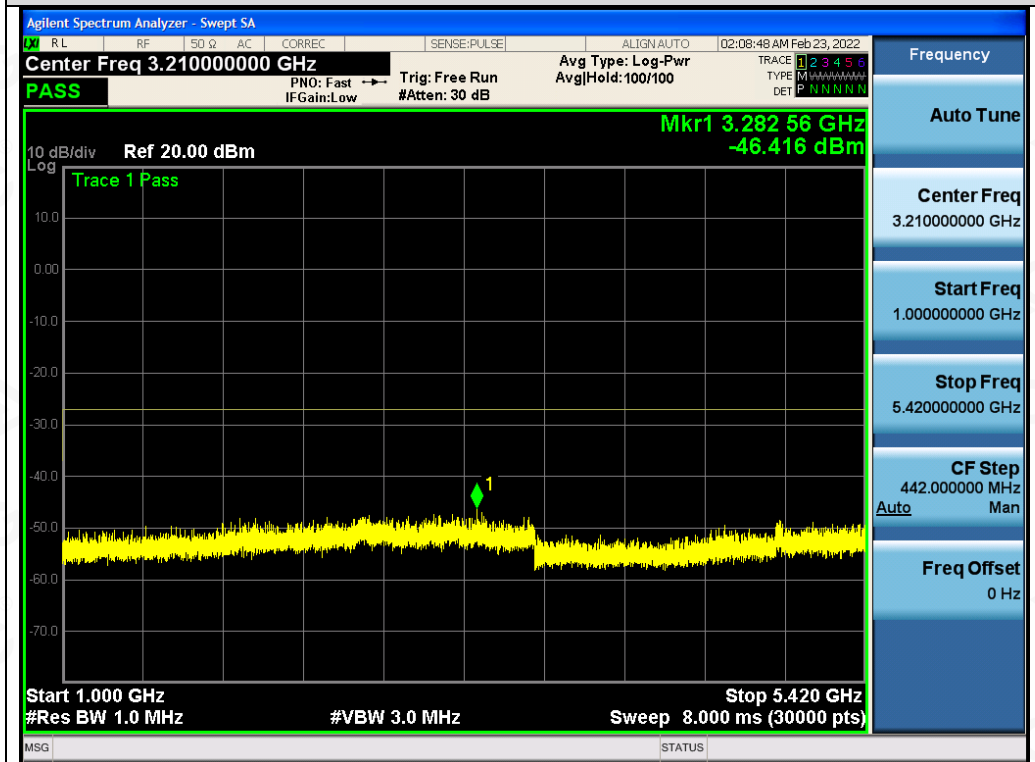
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Test\_Graph\_802.11n40\_ANT2\_5590\_MCS0\_Frequency Band 1

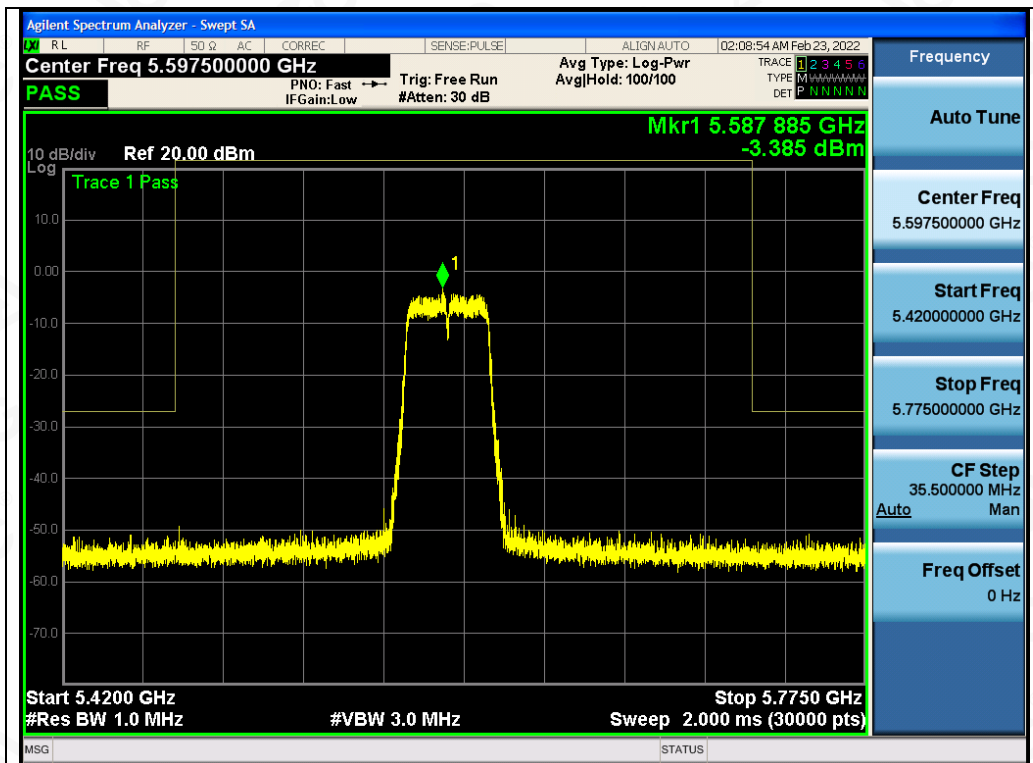


Test\_Graph\_802.11n40\_ANT2\_5590\_MCS0\_Frequency Band 2

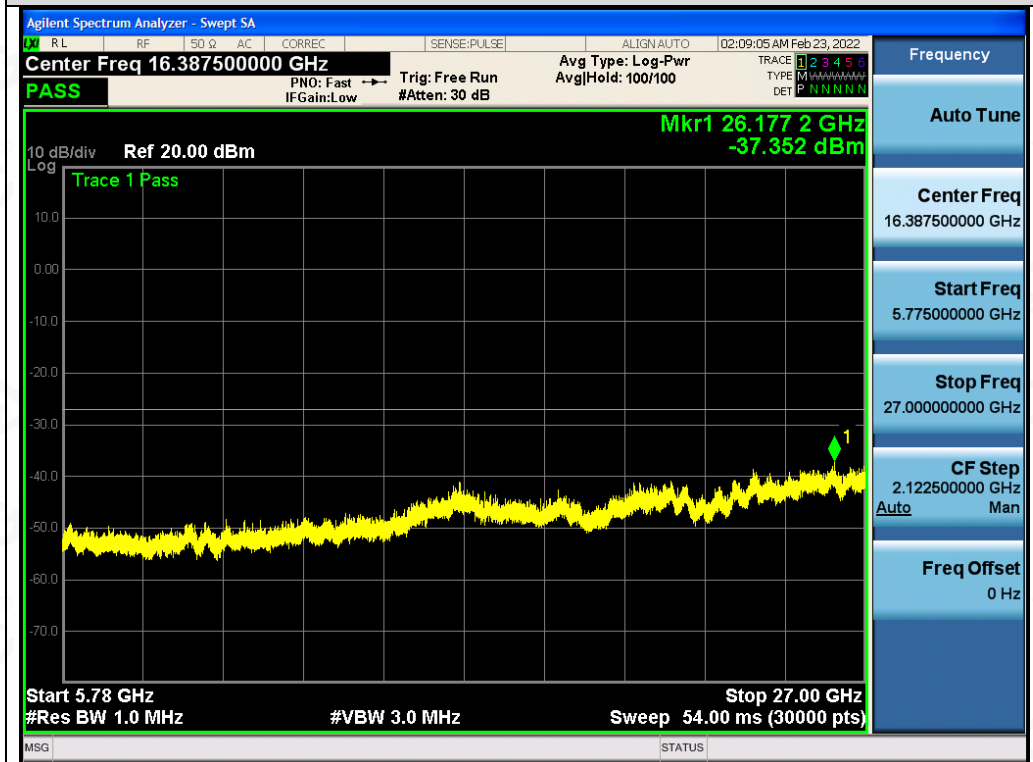
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Test\_Graph\_802.11n40\_ANT2\_5590\_MCS0\_Frequency Band 3

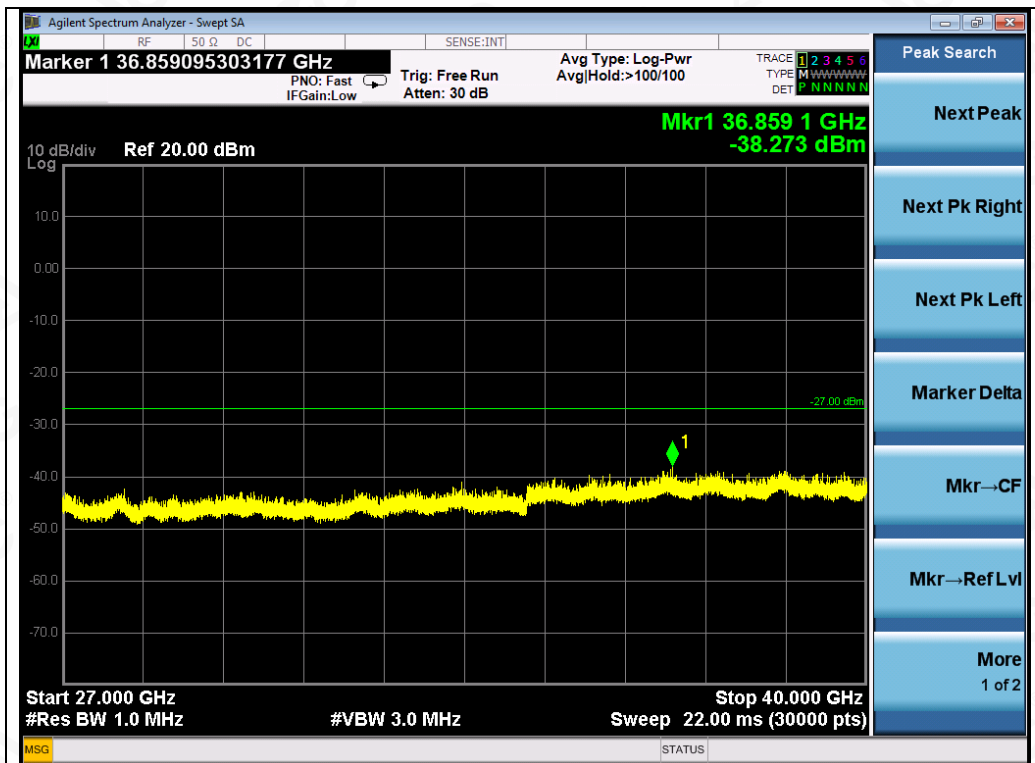


Test\_Graph\_802.11n40\_ANT2\_5590\_MCS0\_Frequency Band 4

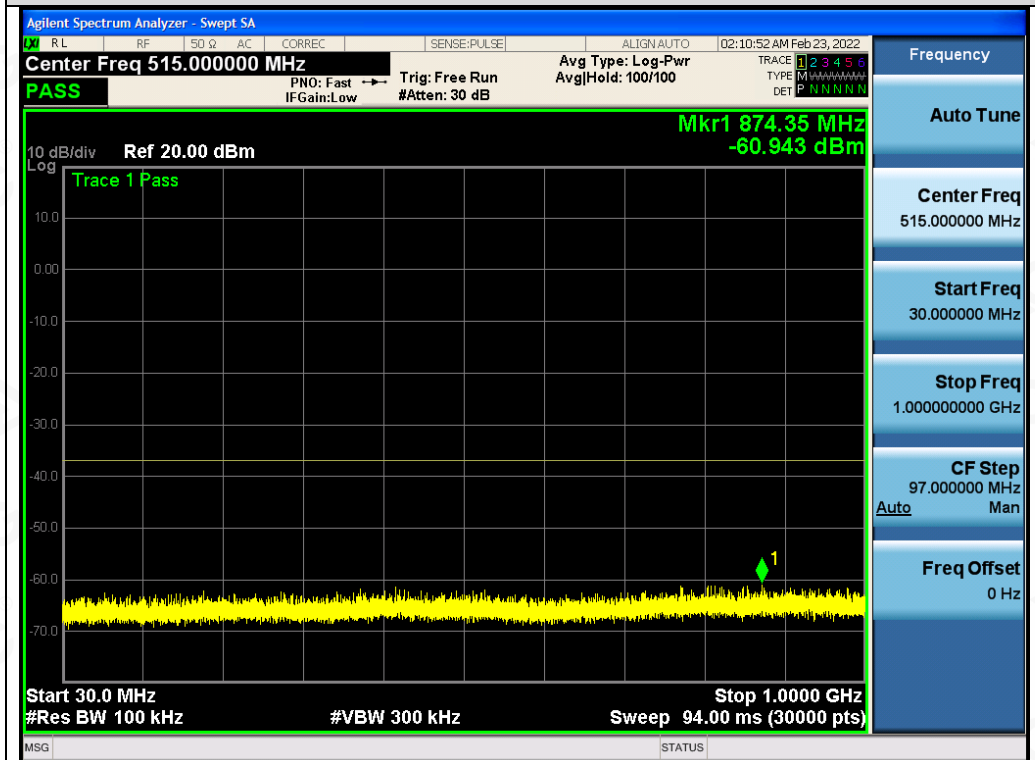
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Test\_Graph\_802.11n40\_ANT2\_5590\_MCS0\_Frequency Band 5

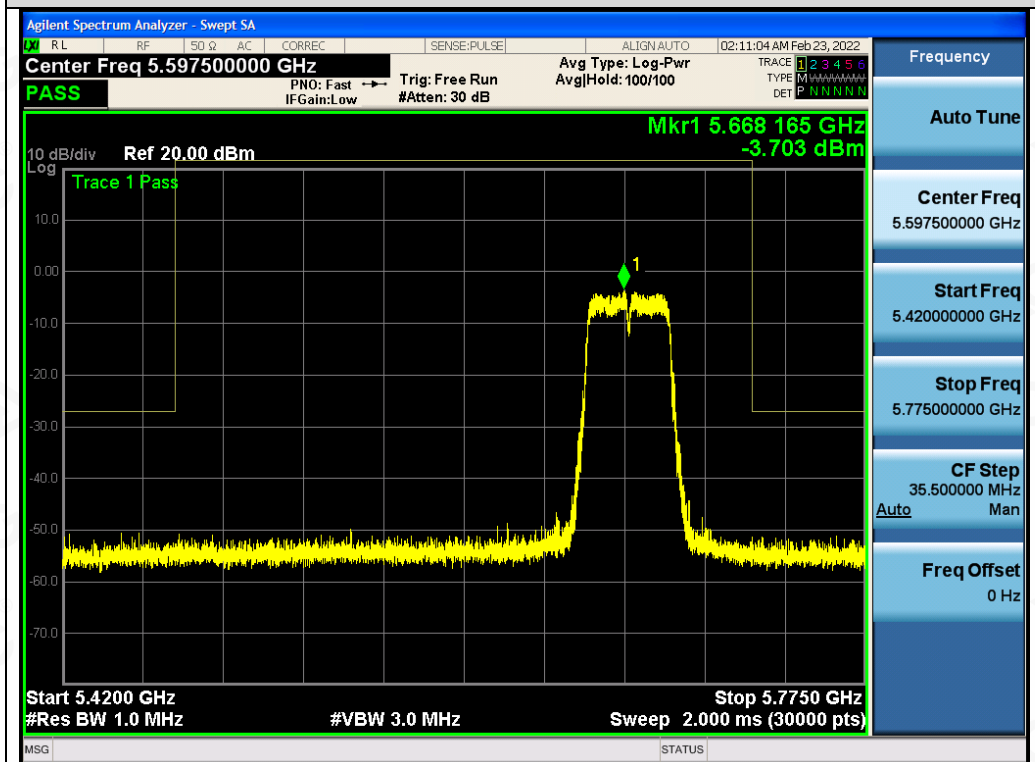
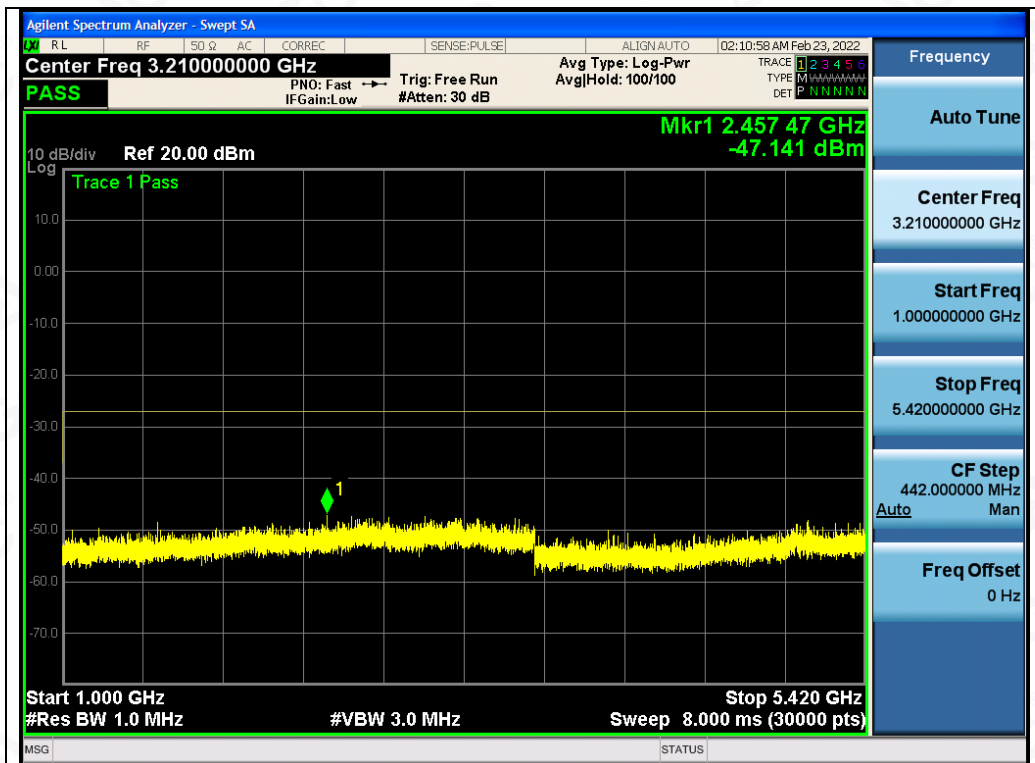


Test\_Graph\_802.11n40\_ANT2\_5670\_MCS0\_Frequency Band 1

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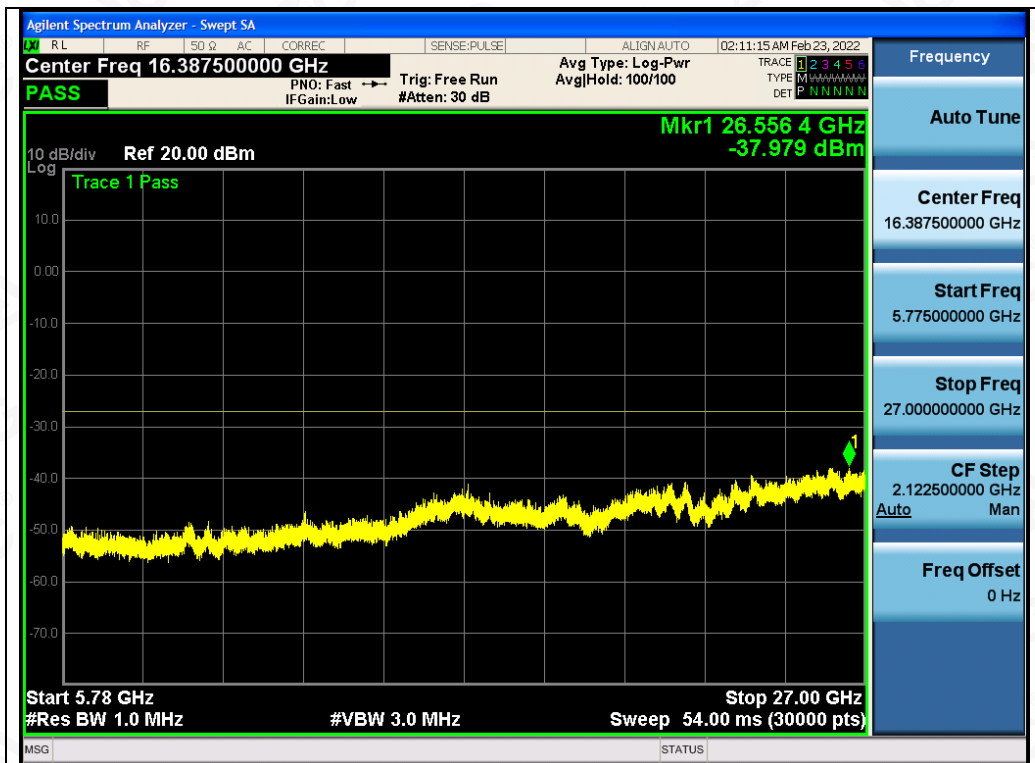


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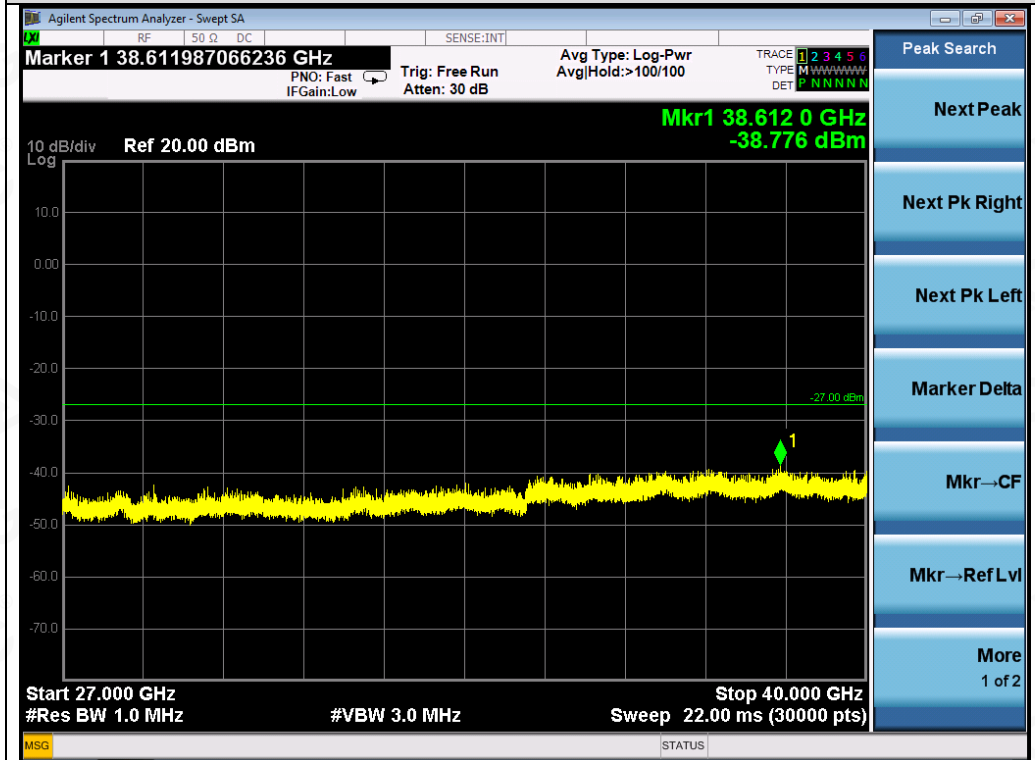
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Test\_Graph\_802.11n40\_ANT2\_5670\_MCS0\_Frequency Band 4

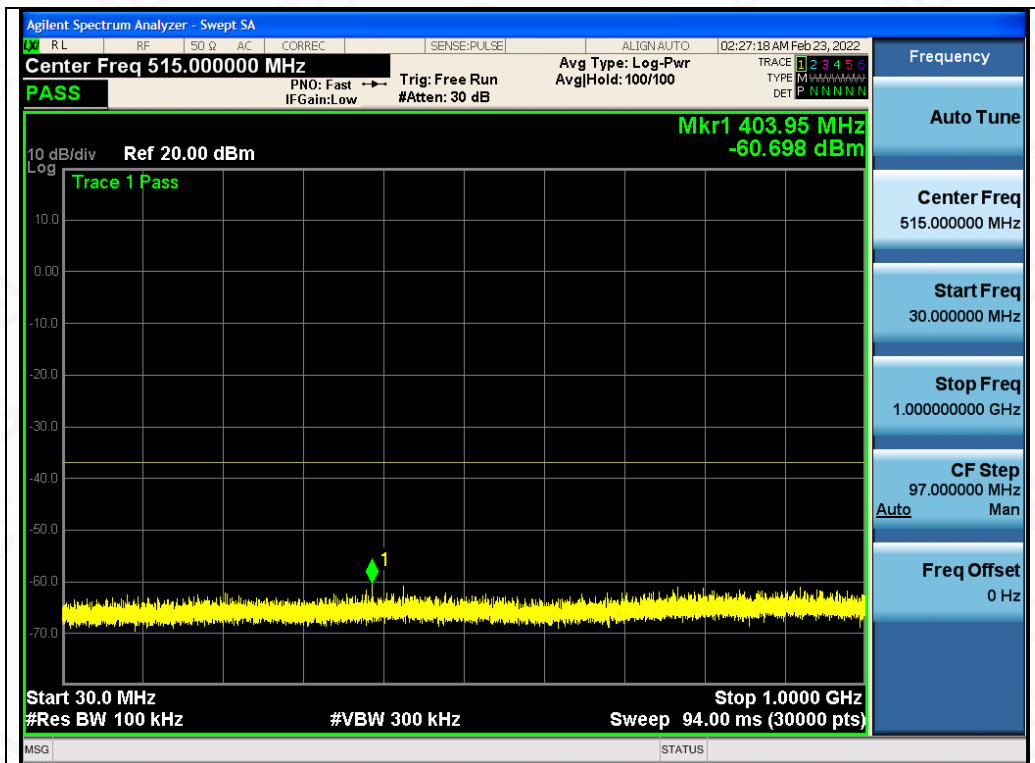


Test\_Graph\_802.11n40\_ANT2\_5670\_MCS0\_Frequency Band 5

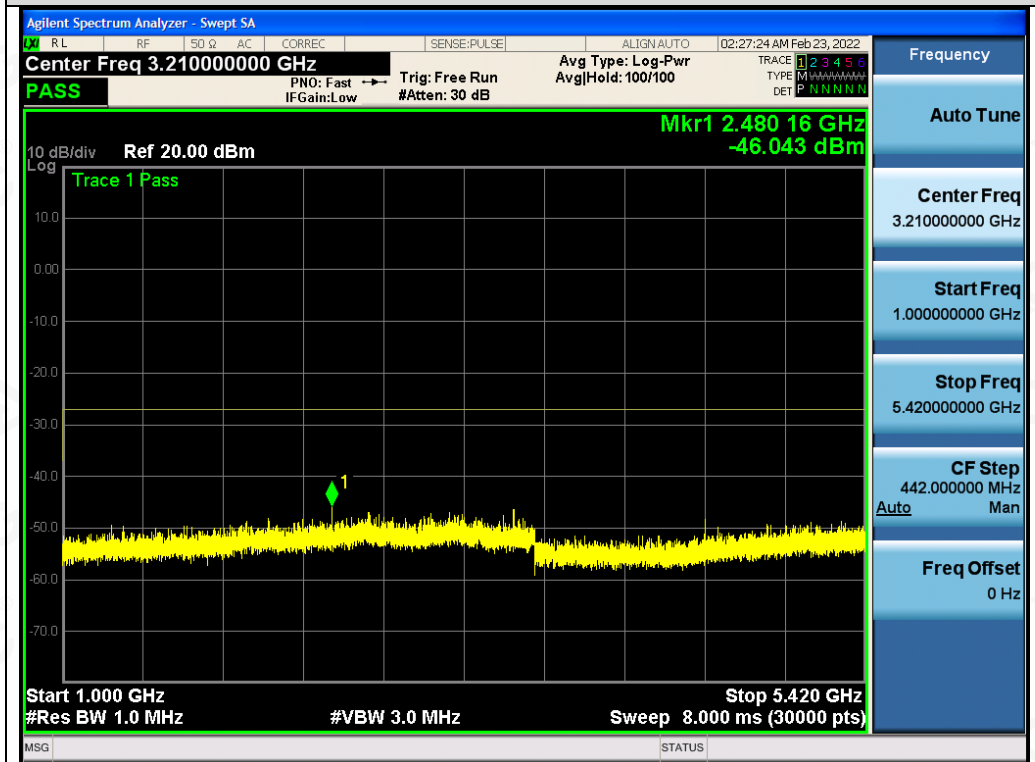
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Test\_Graph\_802.11ac80\_ANT2\_5530\_MCS9\_Frequency Band 1

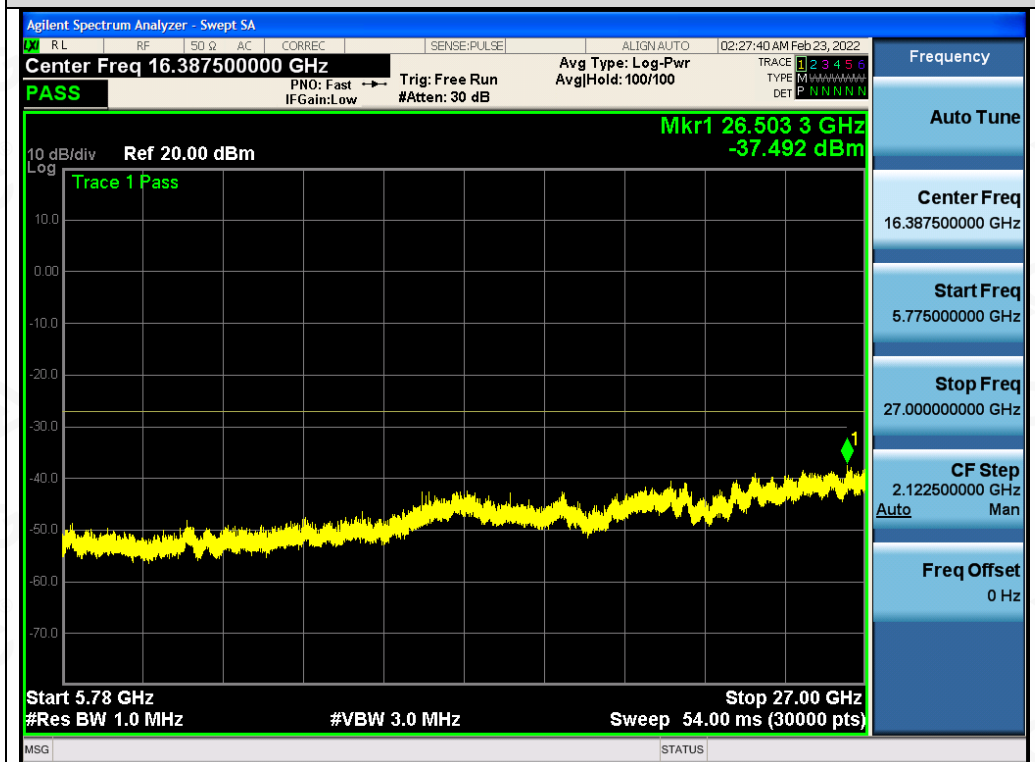
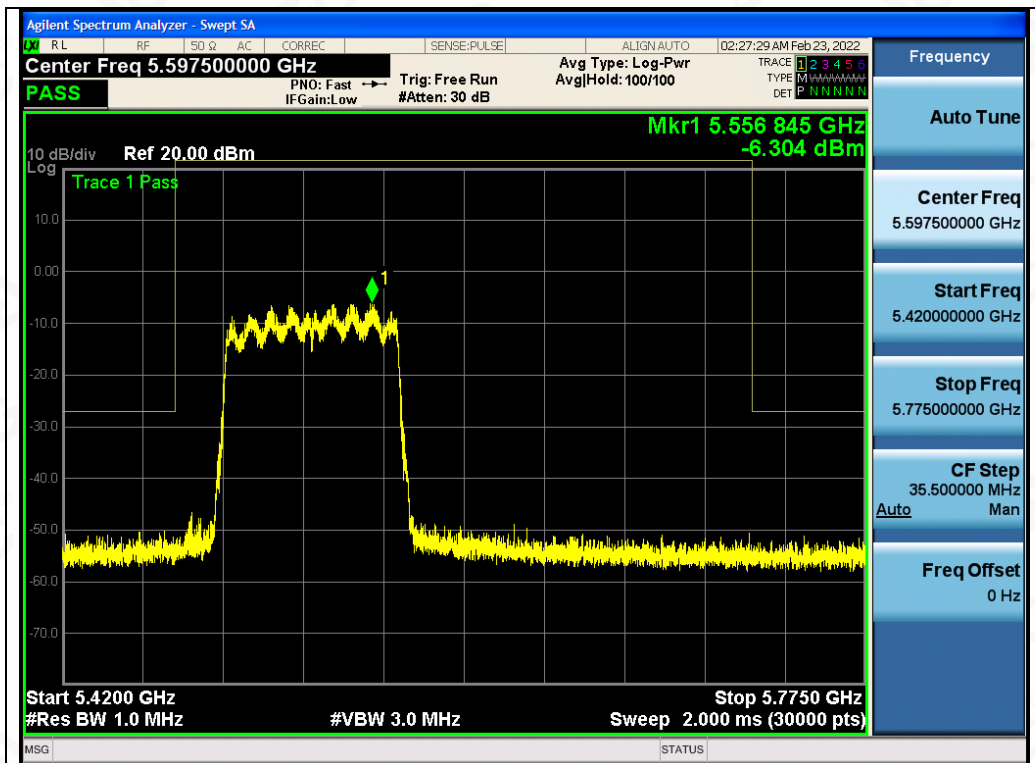


Test\_Graph\_802.11ac80\_ANT2\_5530\_MCS9\_Frequency Band 2

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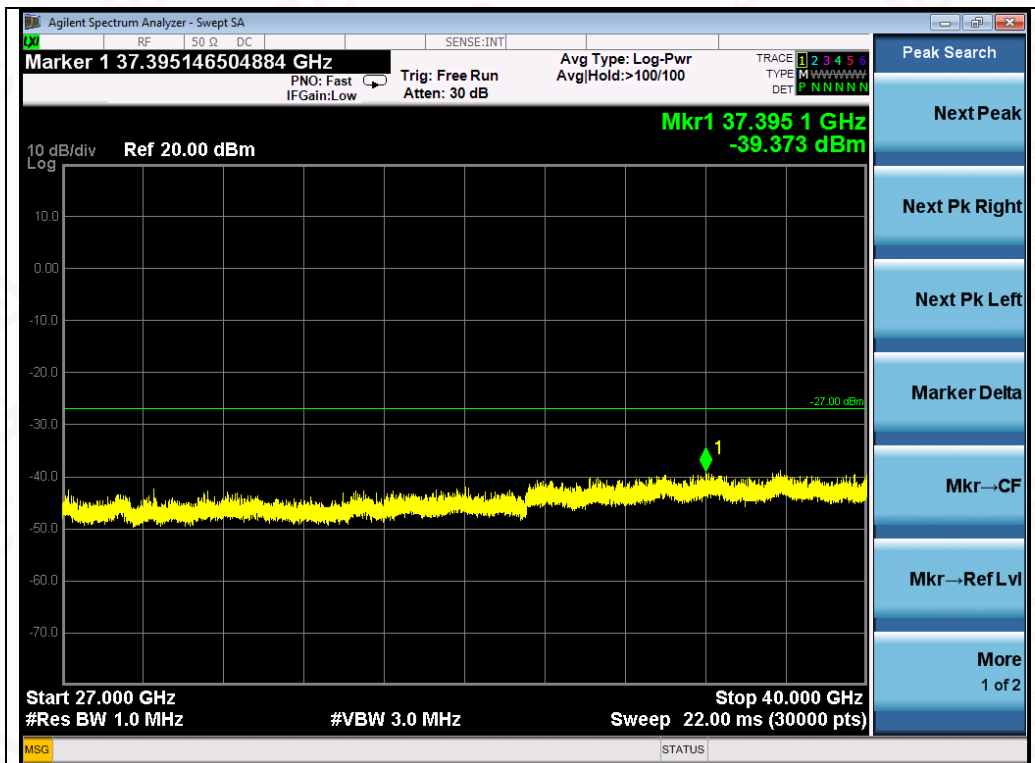




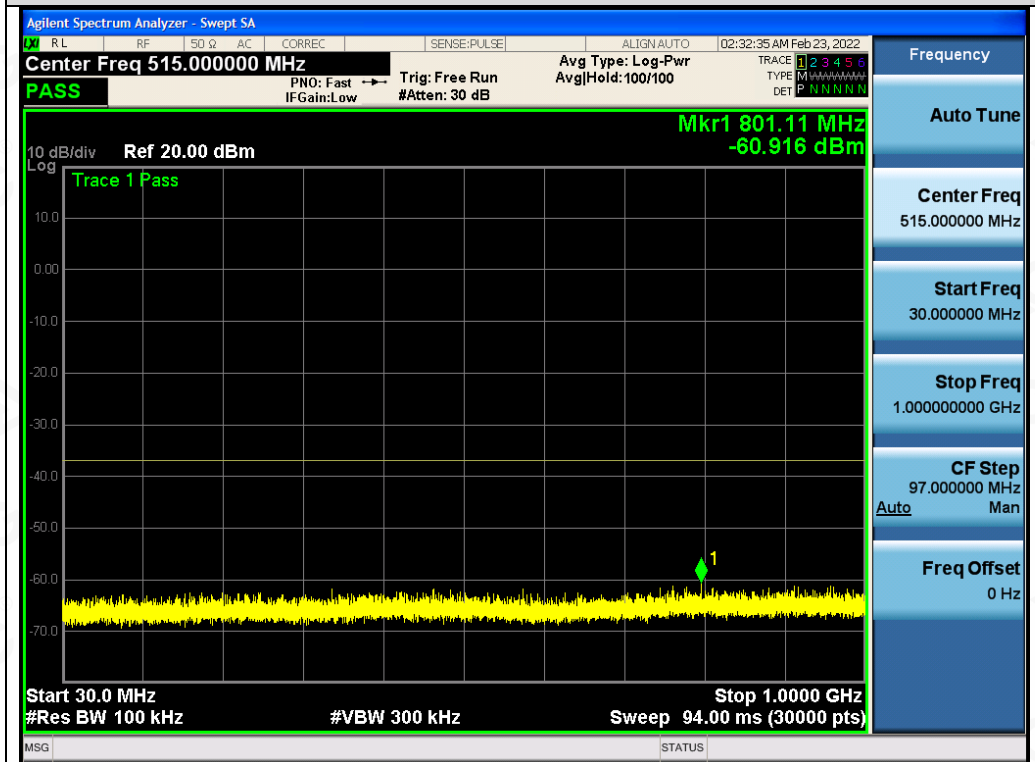
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Test\_Graph\_802.11ac80\_ANT2\_5530\_MCS9\_Frequency Band 5

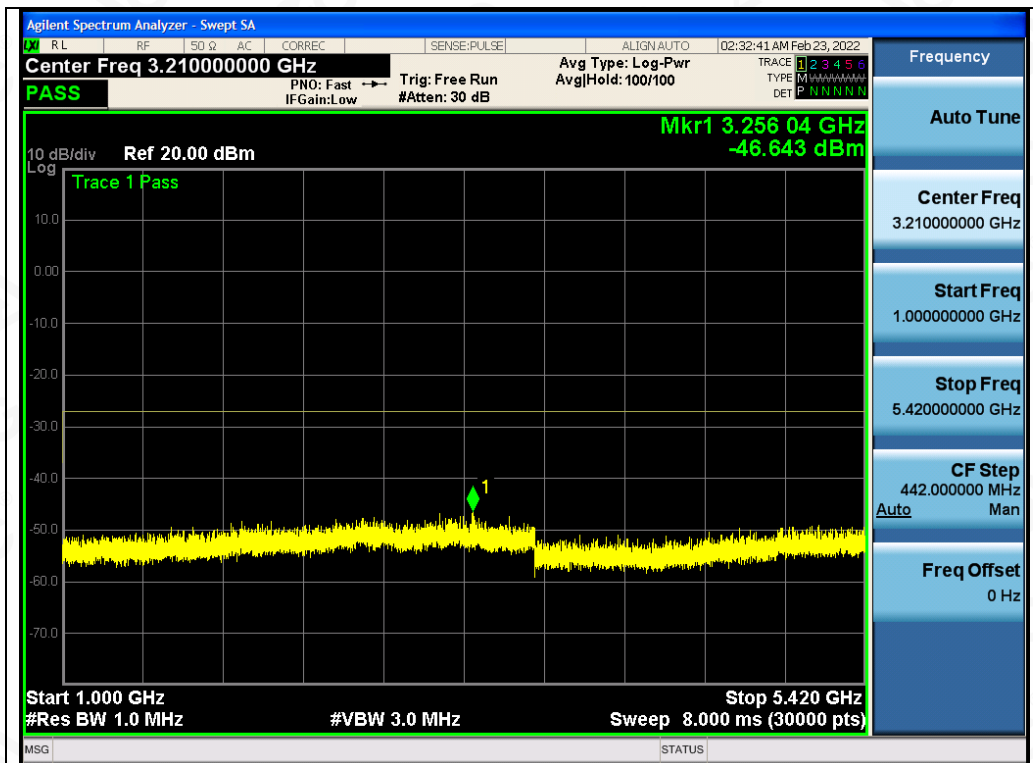


Test\_Graph\_802.11ac80\_ANT2\_5610\_MCS9\_Frequency Band 1

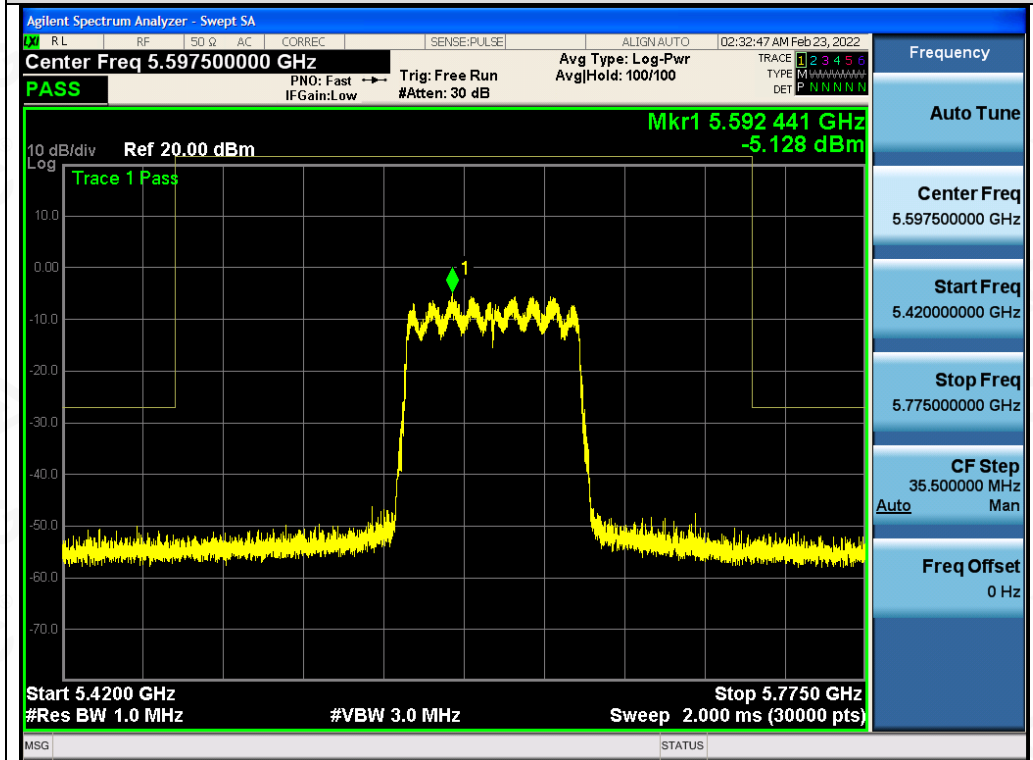
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Test\_Graph\_802.11ac80\_ANT2\_5610\_MCS9\_Frequency Band 2

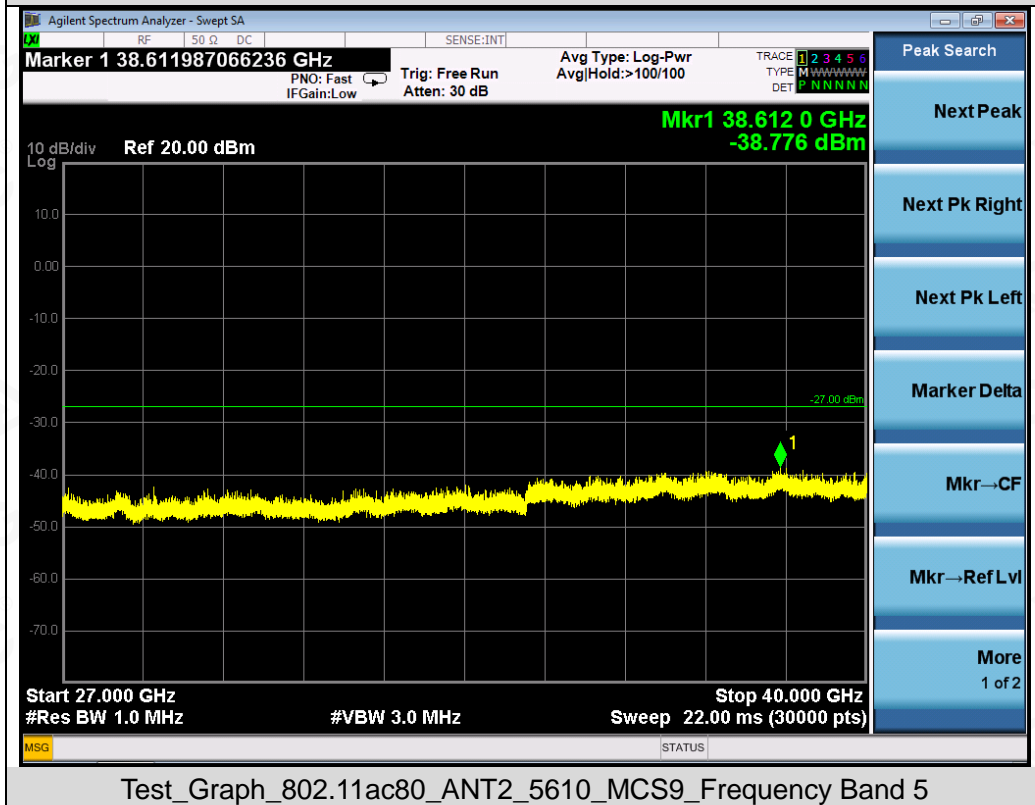
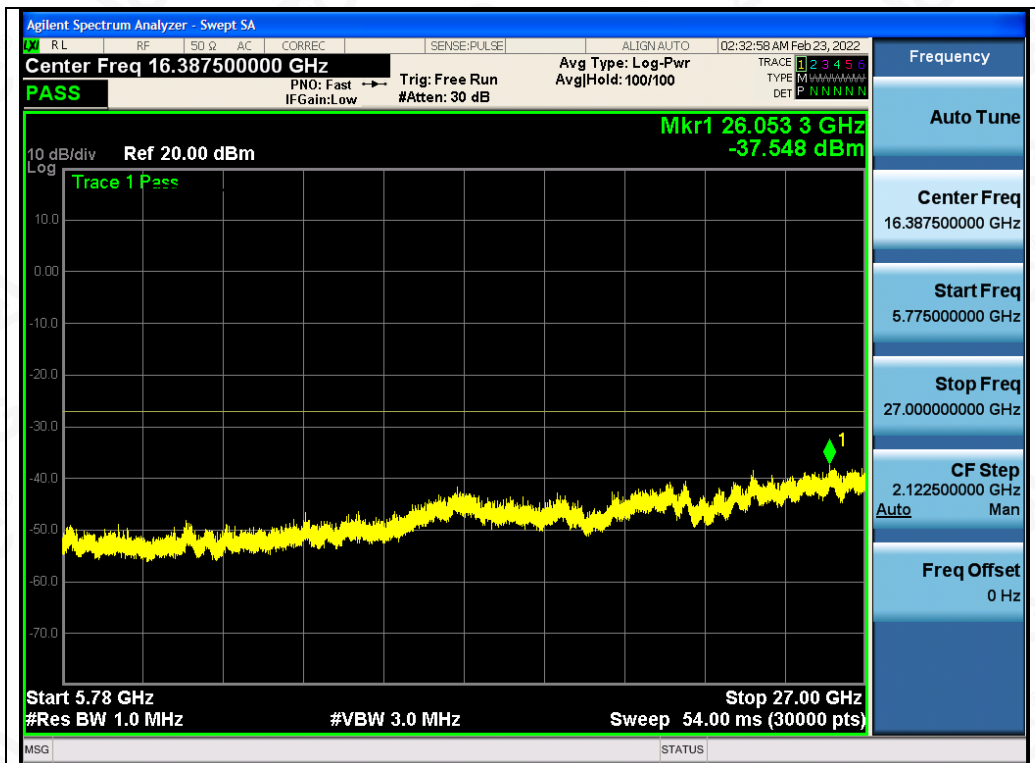


Test\_Graph\_802.11ac80\_ANT2\_5610\_MCS9\_Frequency Band 3

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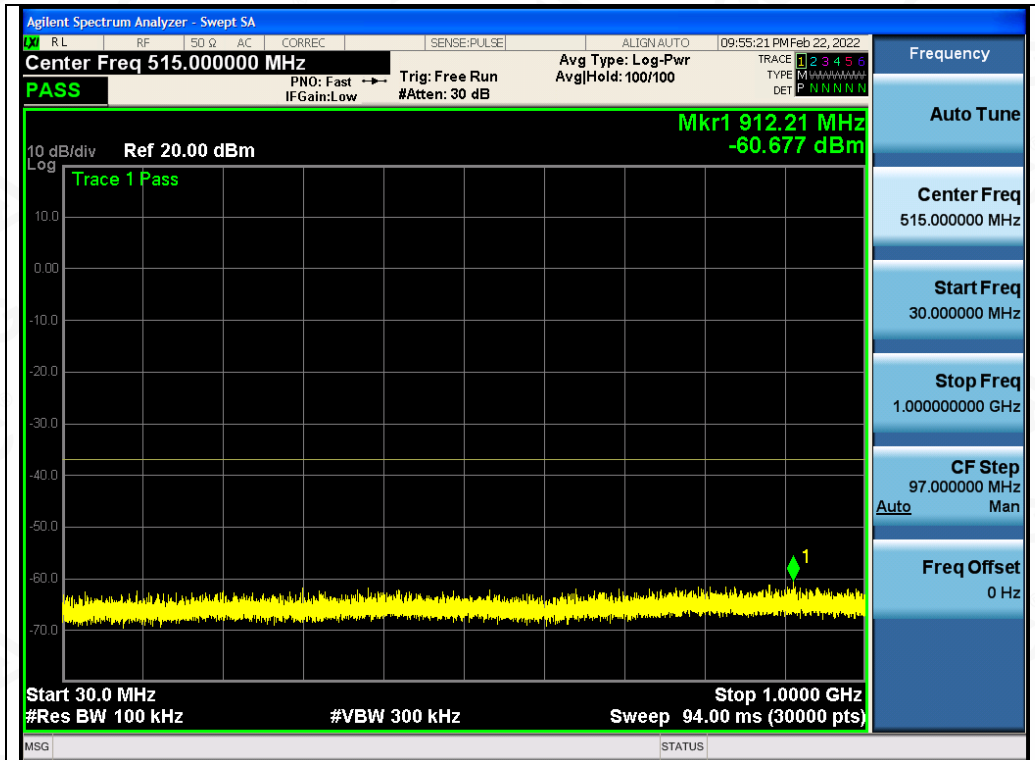


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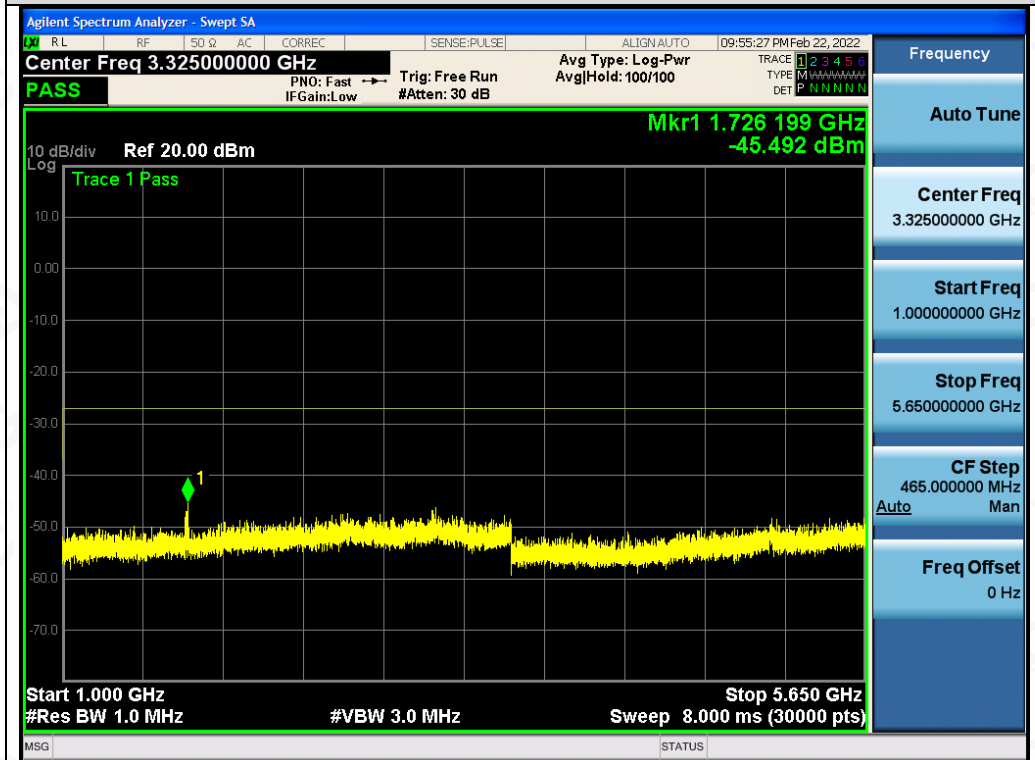
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**Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band**



Test\_Graph\_802.11a\_ANT2\_5745\_6Mbps\_Frequency Band1

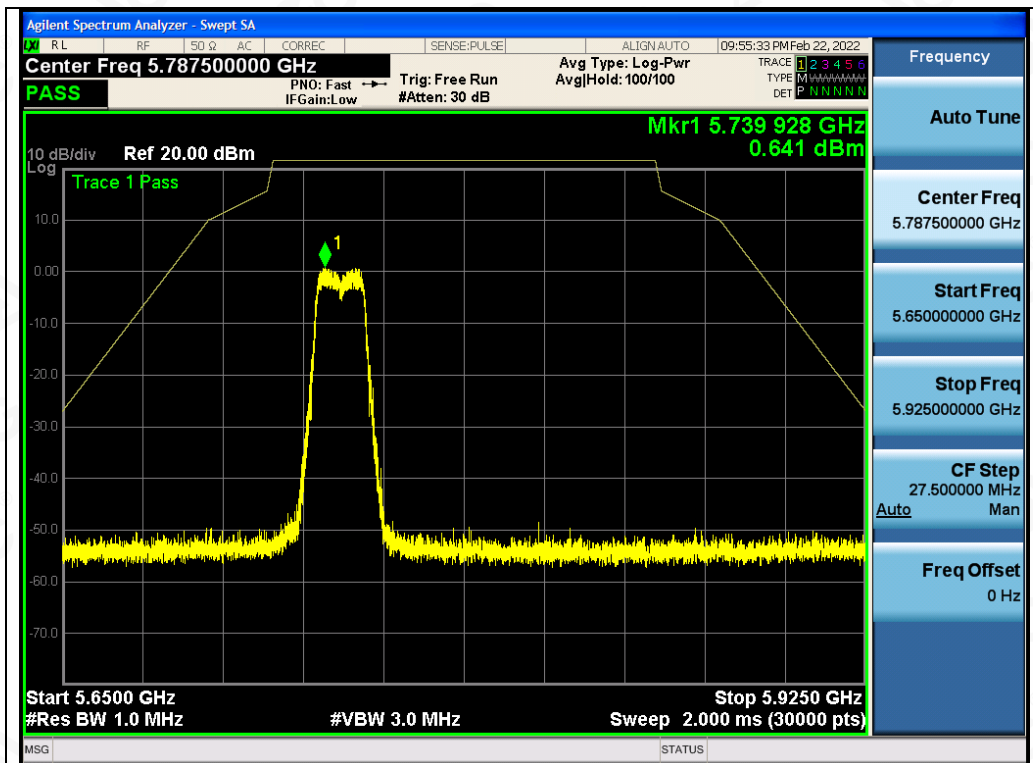


Test\_Graph\_802.11a\_ANT2\_5745\_6Mbps\_Frequency Band2

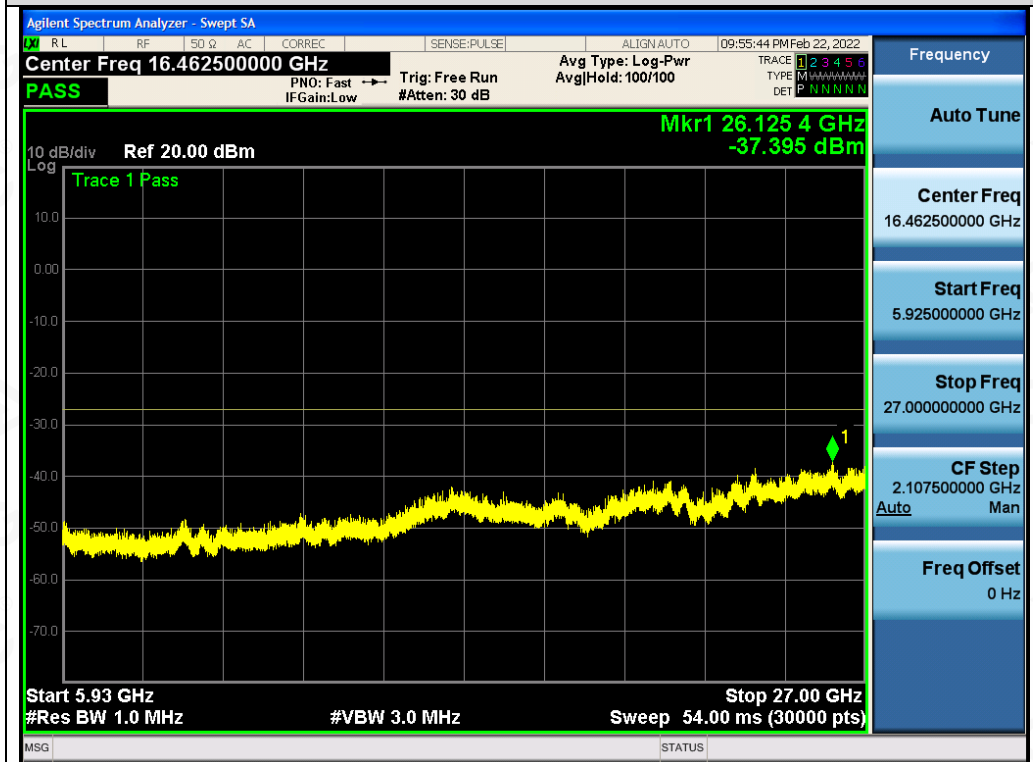
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Test\_Graph\_802.11a\_ANT2\_5745\_6Mbps\_Frequency Band3



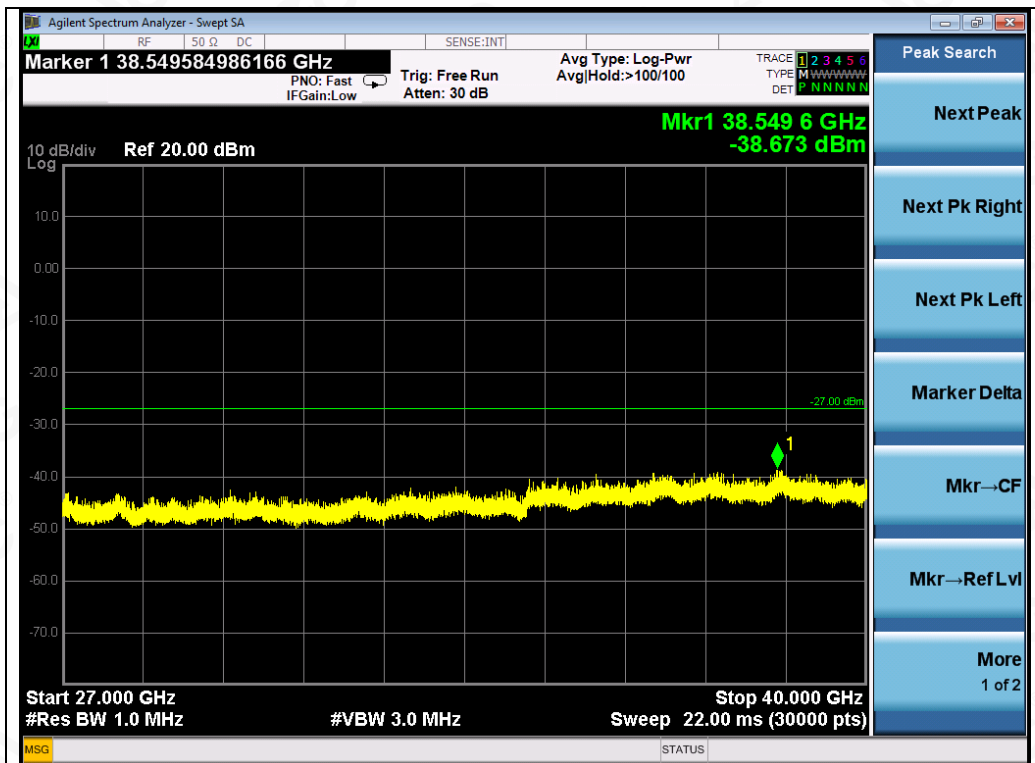
Test\_Graph\_802.11a\_ANT2\_5745\_6Mbps\_Frequency Band4

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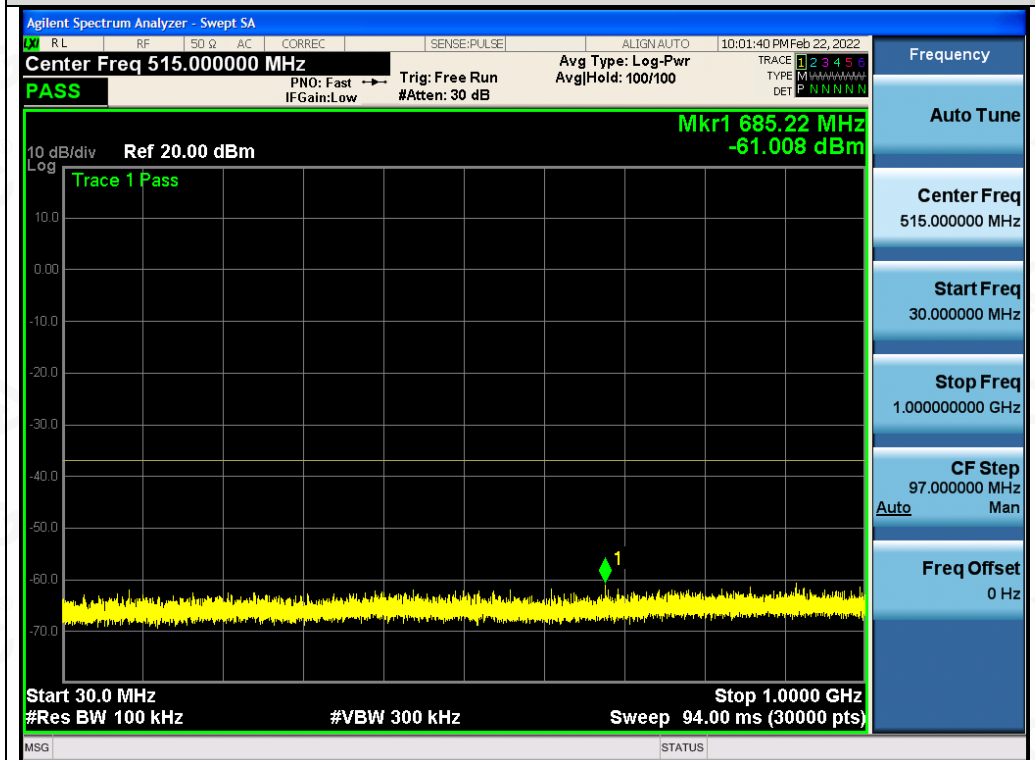
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Test\_Graph\_802.11a\_ANT2\_5745\_6Mbps\_Frequency Band5

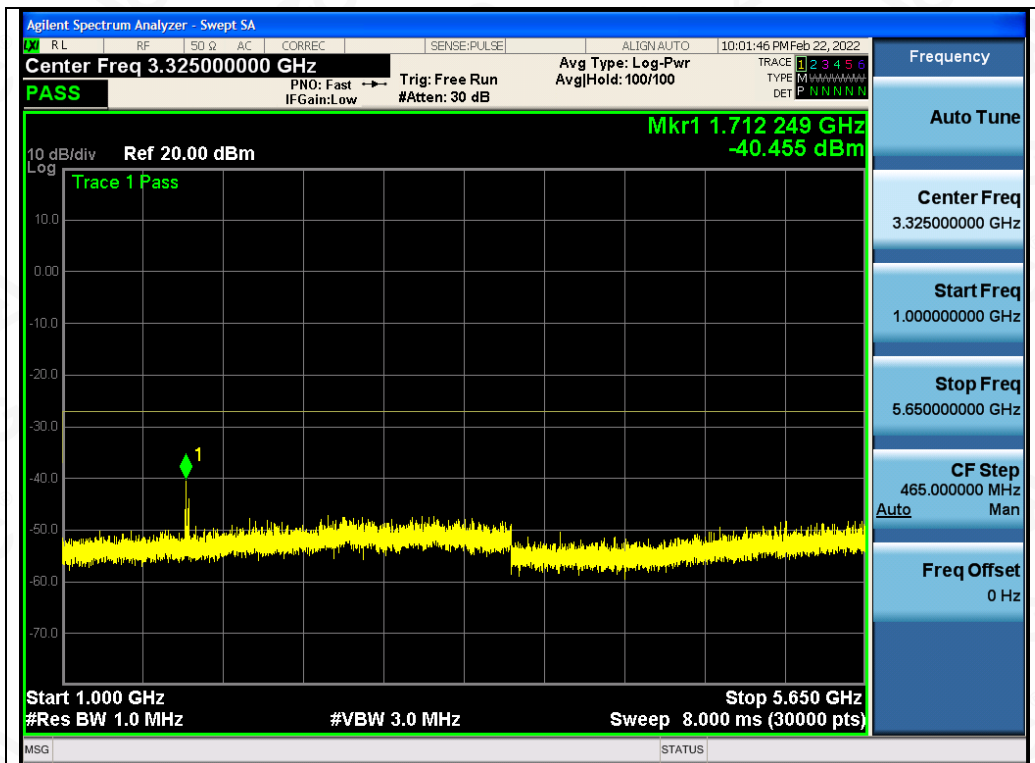


Test\_Graph\_802.11a\_ANT2\_5825\_6Mbps\_Frequency Band1

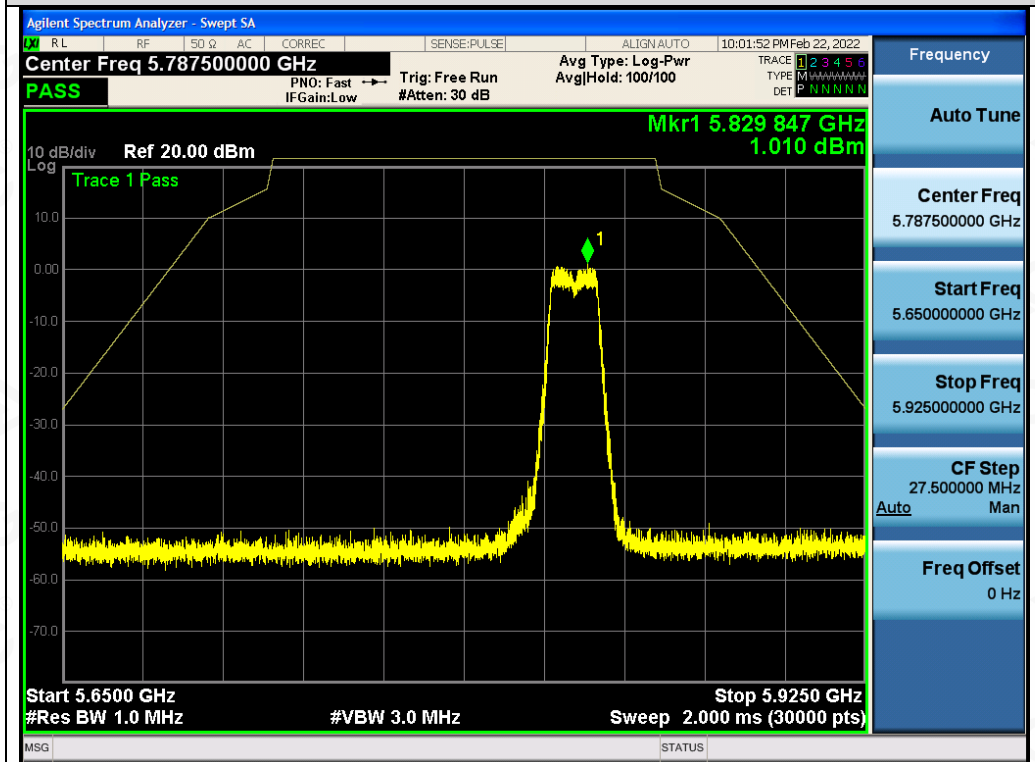
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Test\_Graph\_802.11a\_ANT2\_5825\_6Mbps\_Frequency Band2

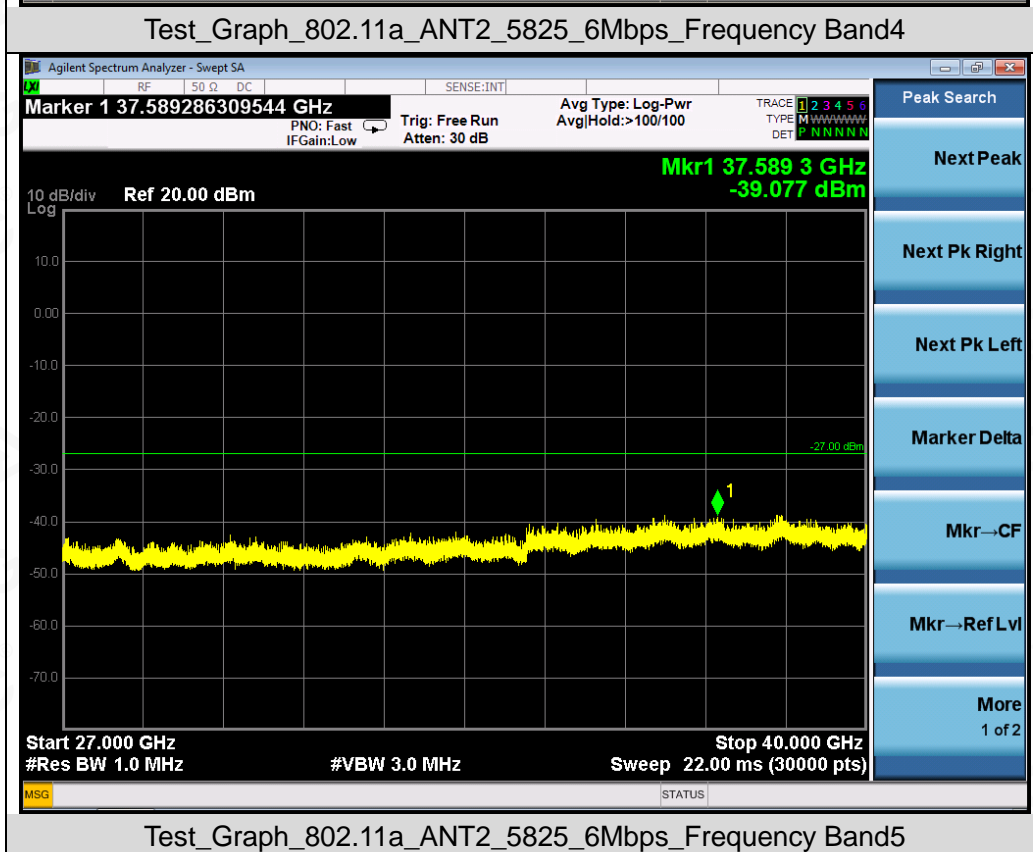
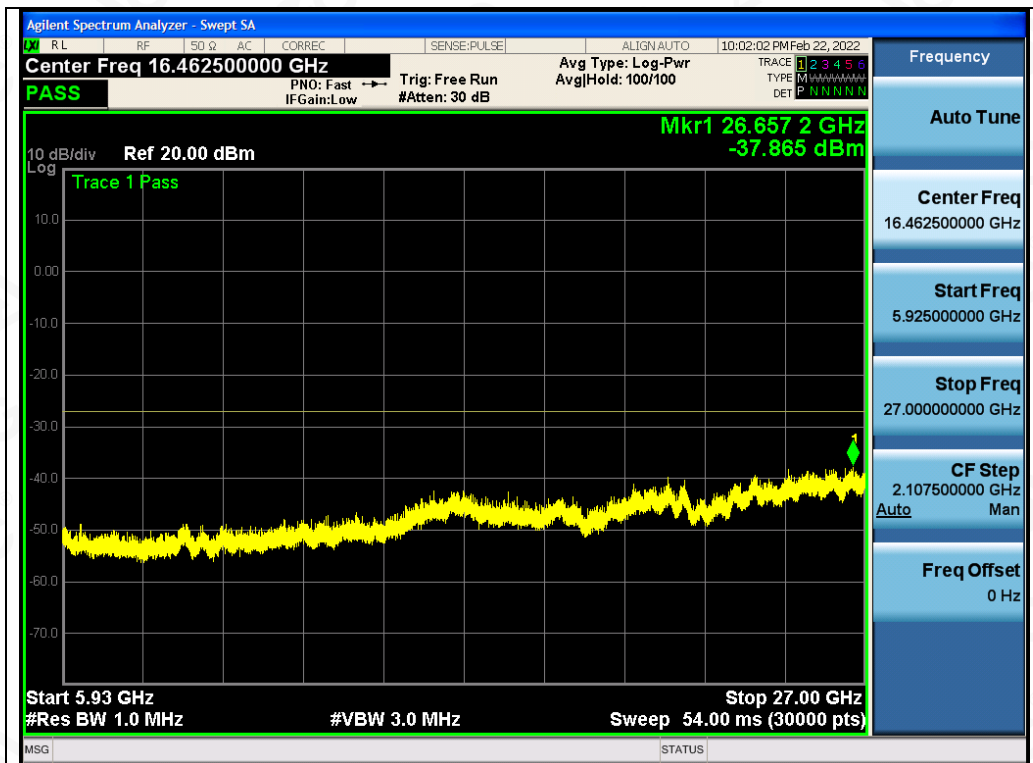


Test\_Graph\_802.11a\_ANT2\_5825\_6Mbps\_Frequency Band3

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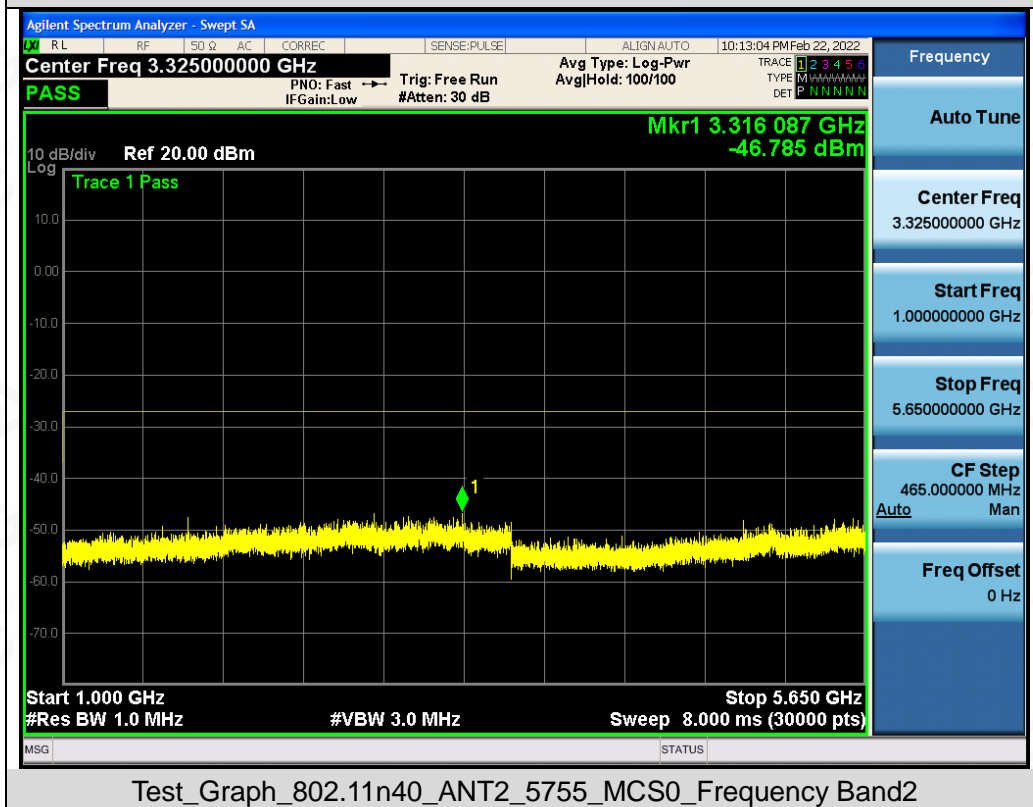
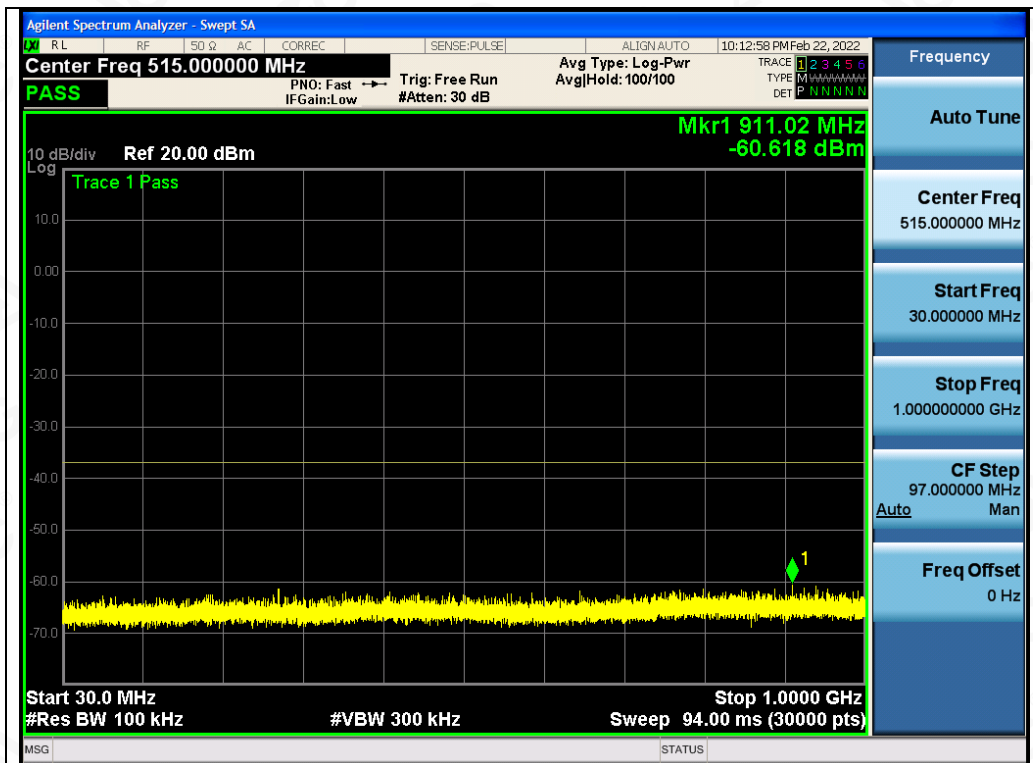




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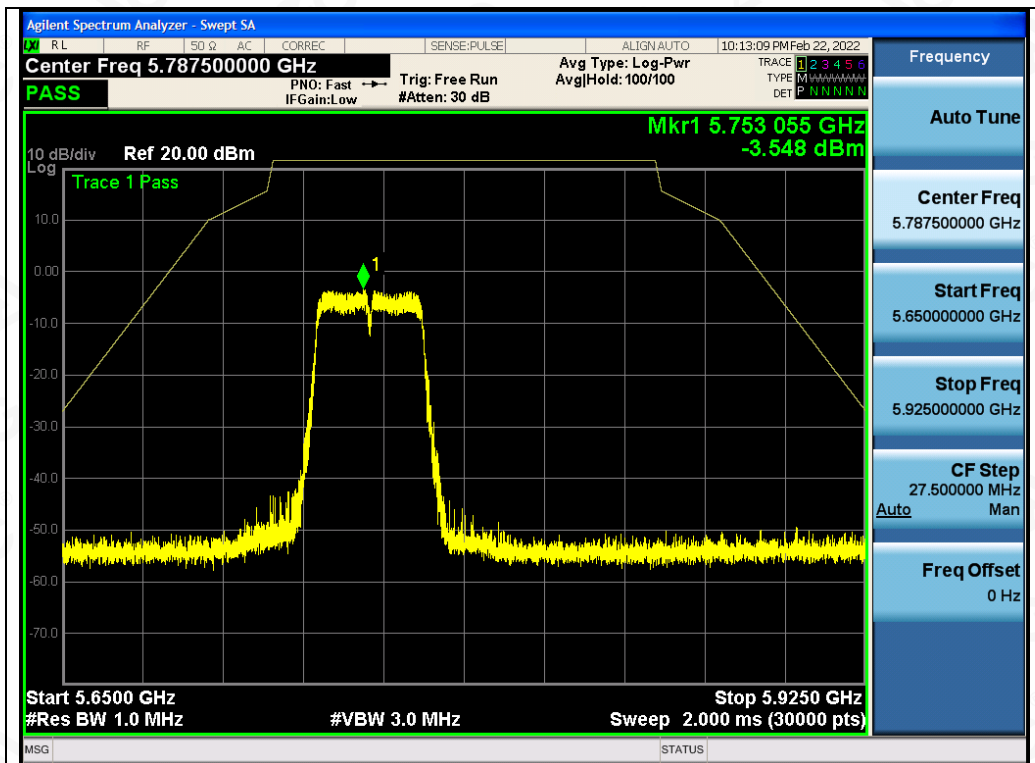




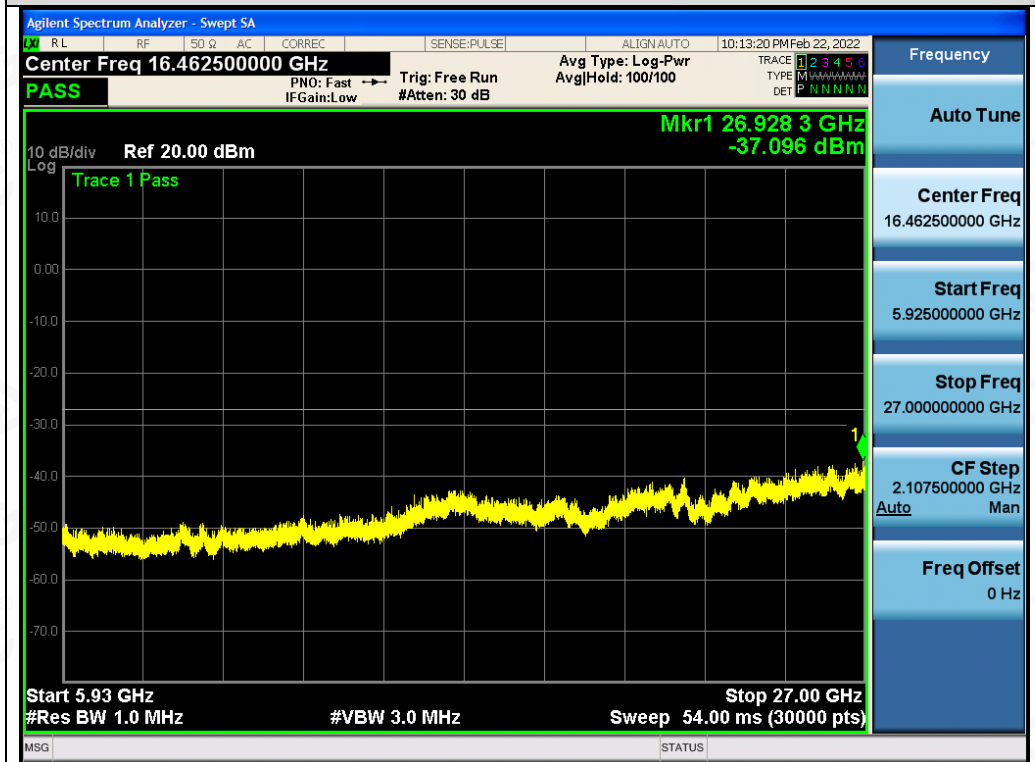
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Test\_Graph\_802.11n40\_ANT2\_5755\_MCS0\_Frequency Band3

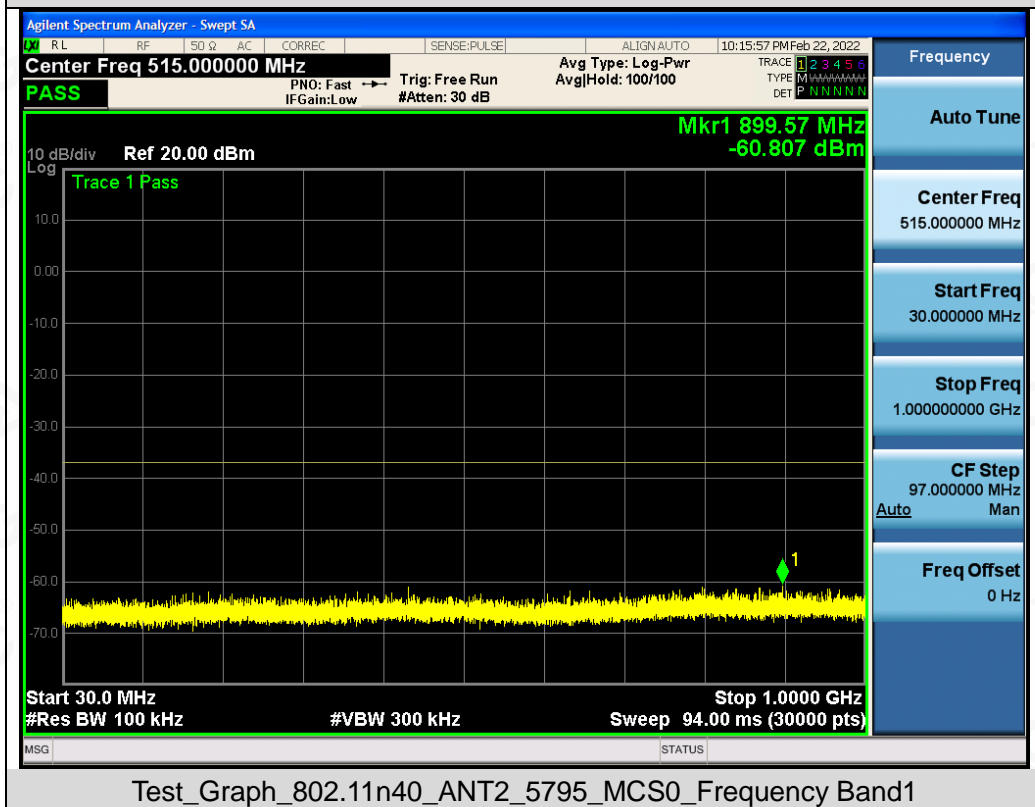
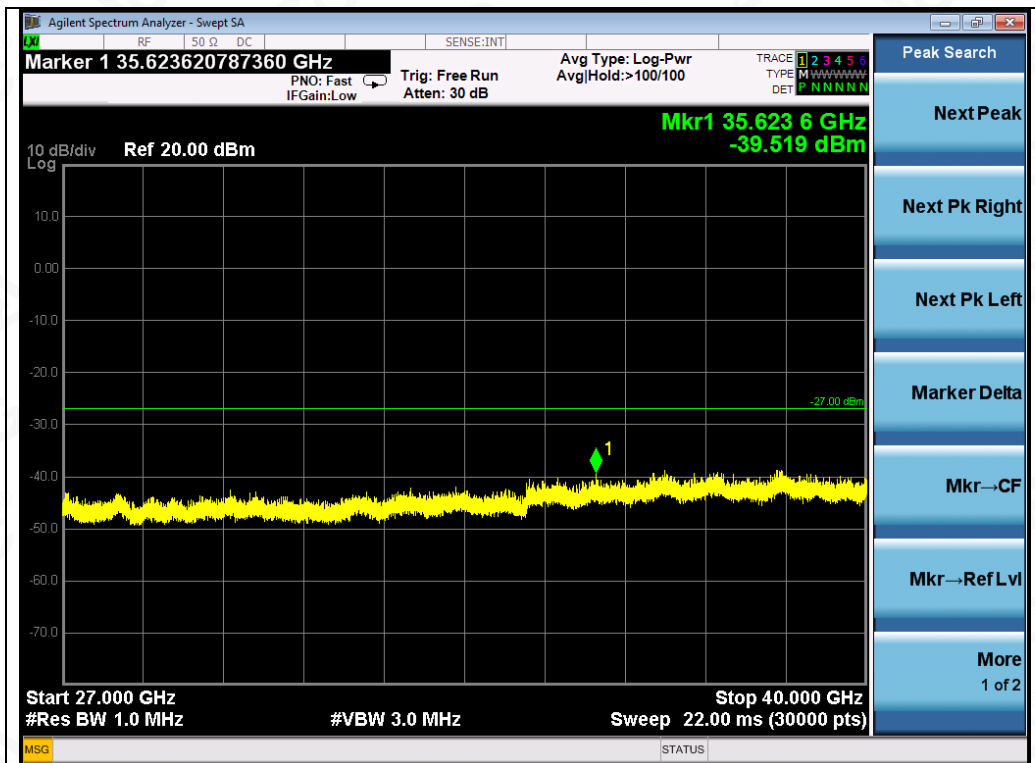


Test\_Graph\_802.11n40\_ANT2\_5755\_MCS0\_Frequency Band4

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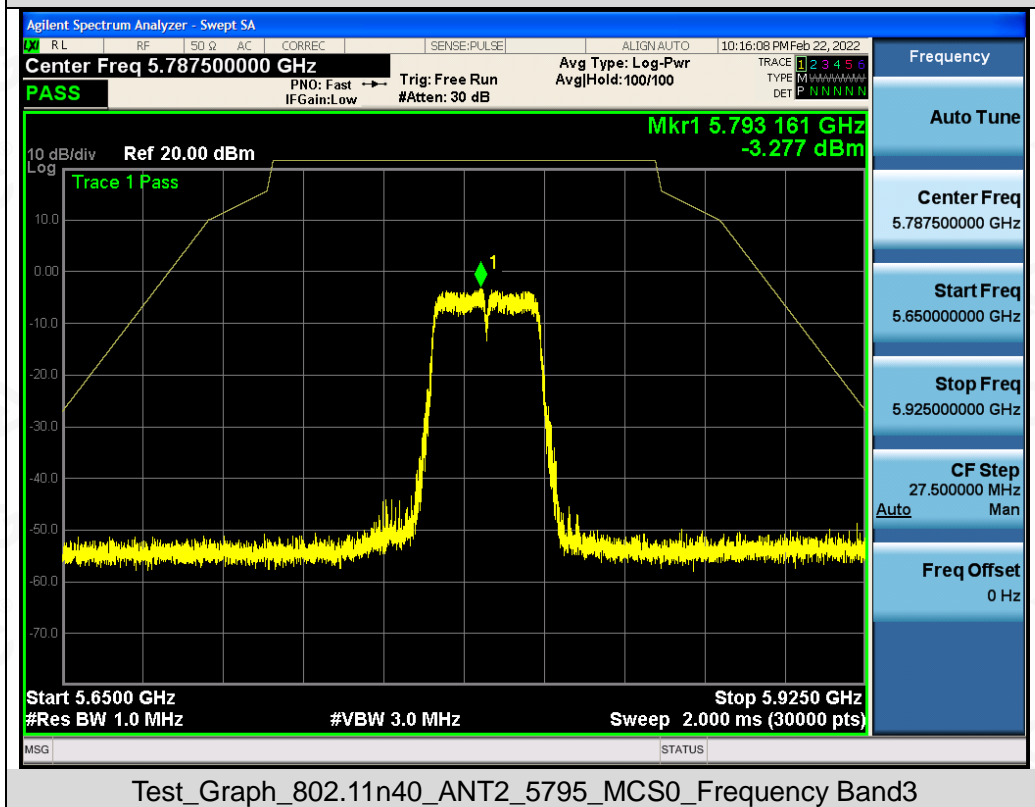
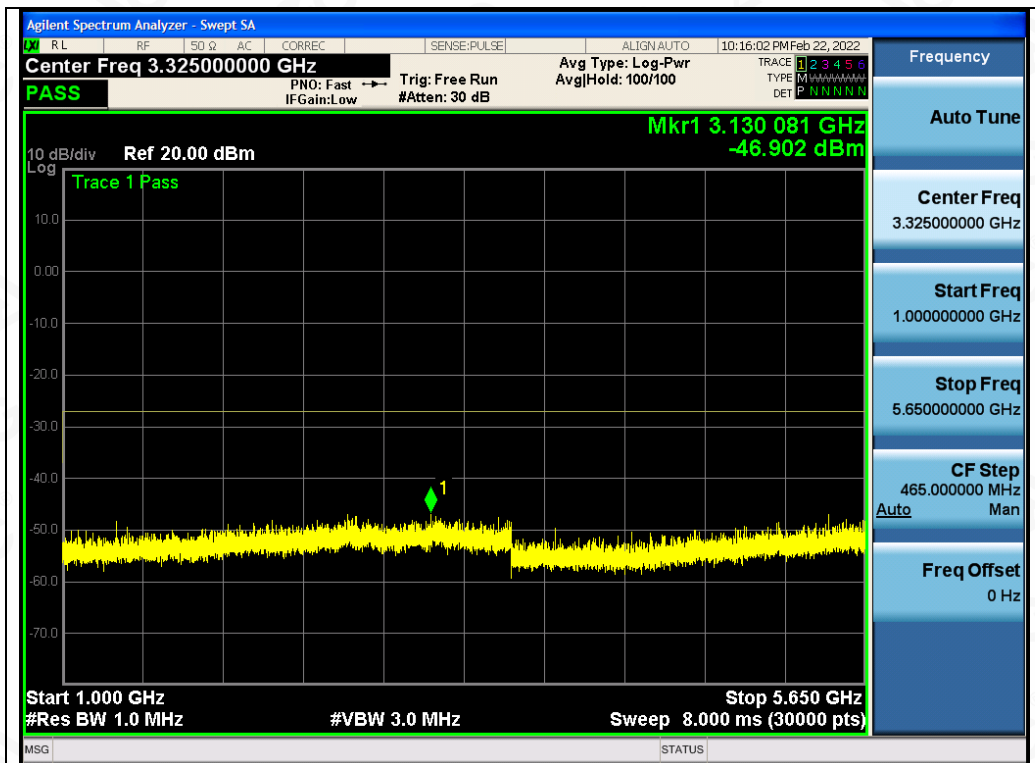




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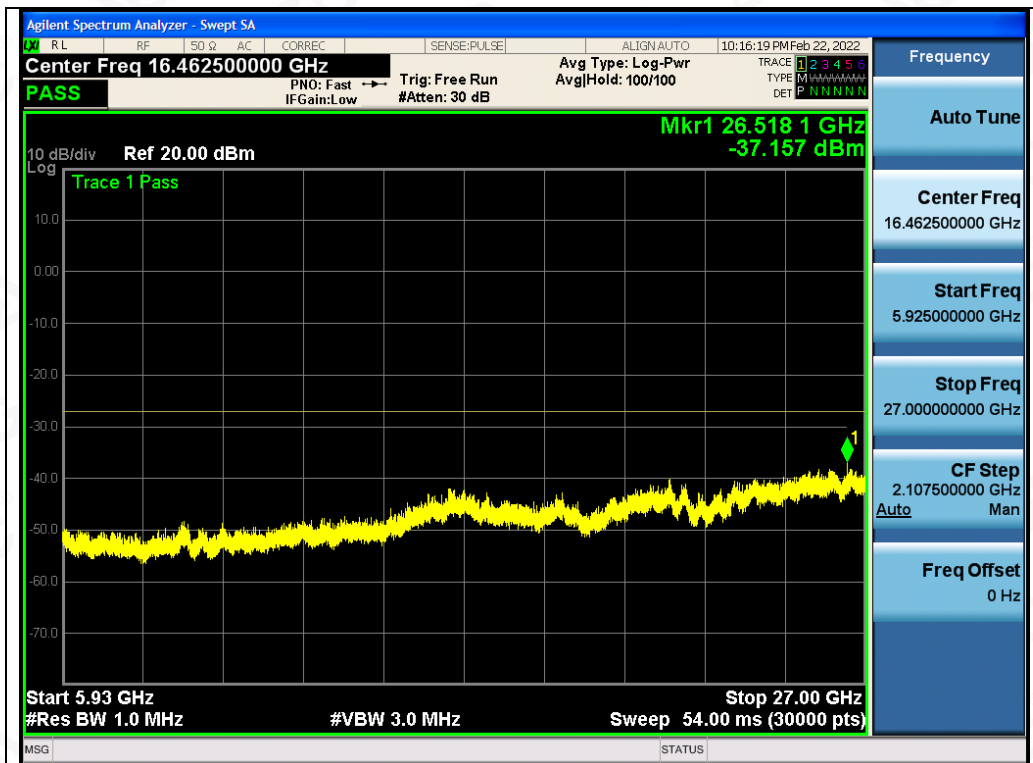




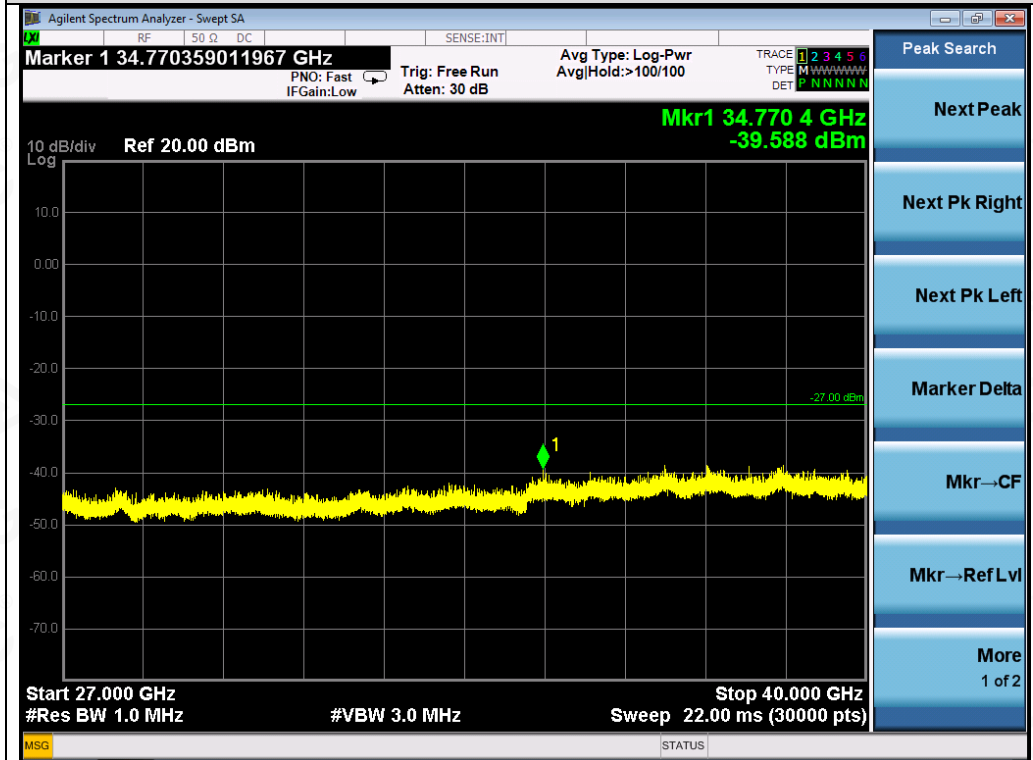
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Test\_Graph\_802.11n40\_ANT2\_5795\_MCS0\_Frequency Band4



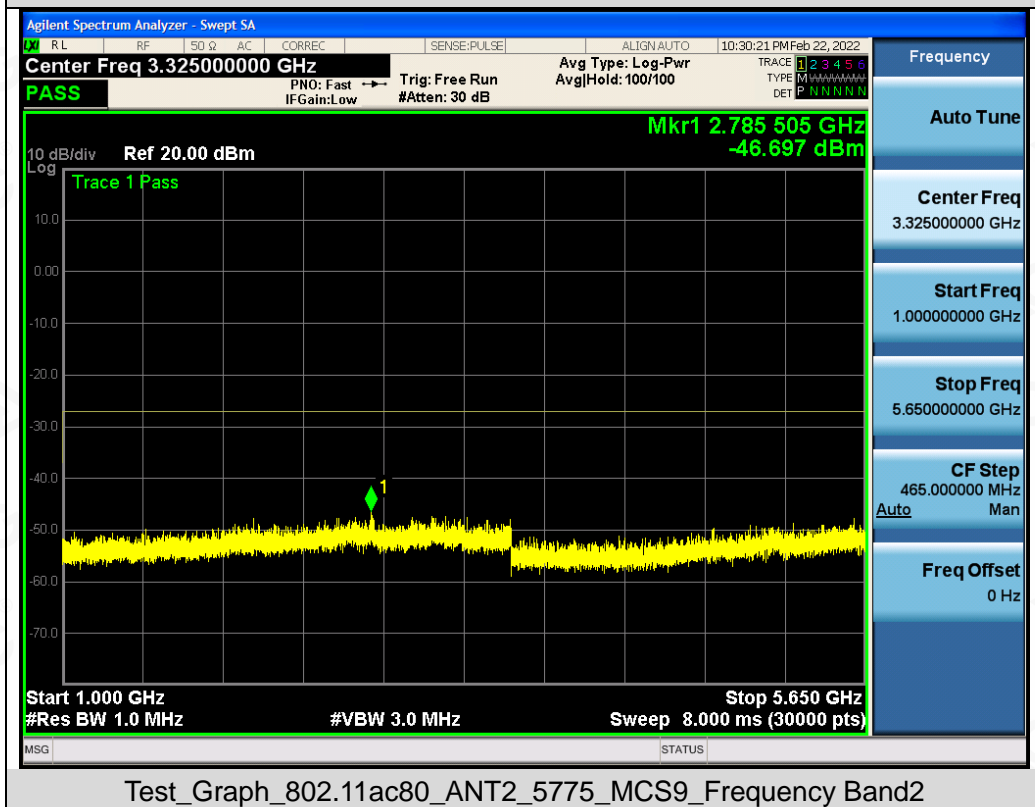
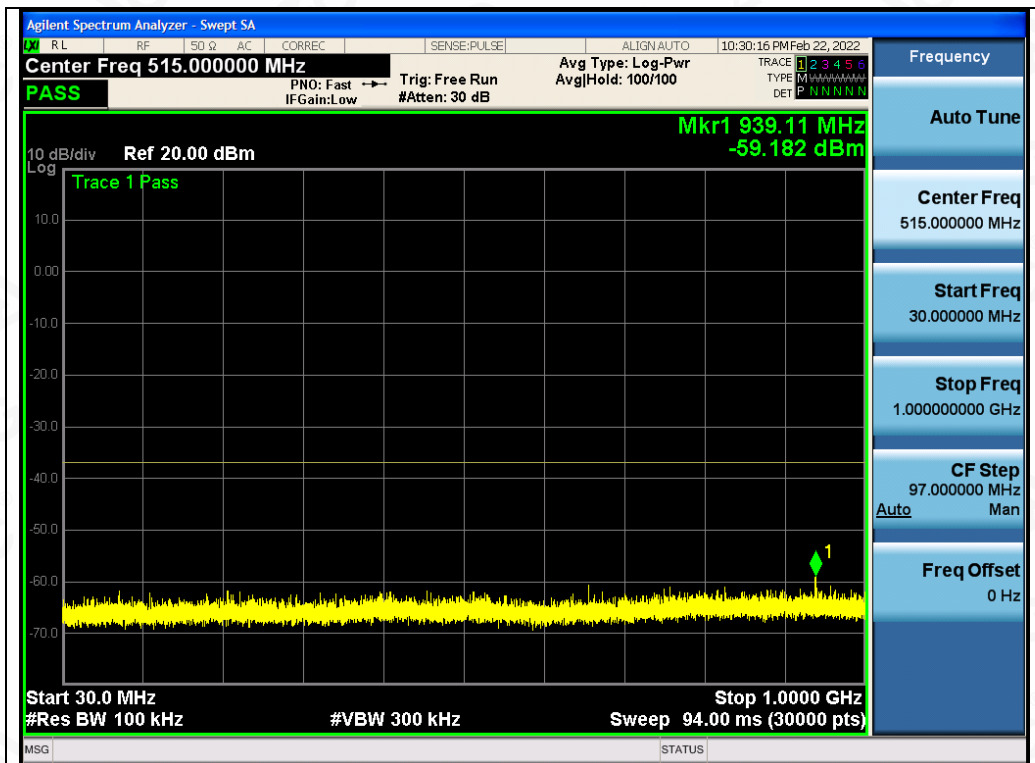
Test\_Graph\_802.11n40\_ANT2\_5795\_MCS0\_Frequency Band5

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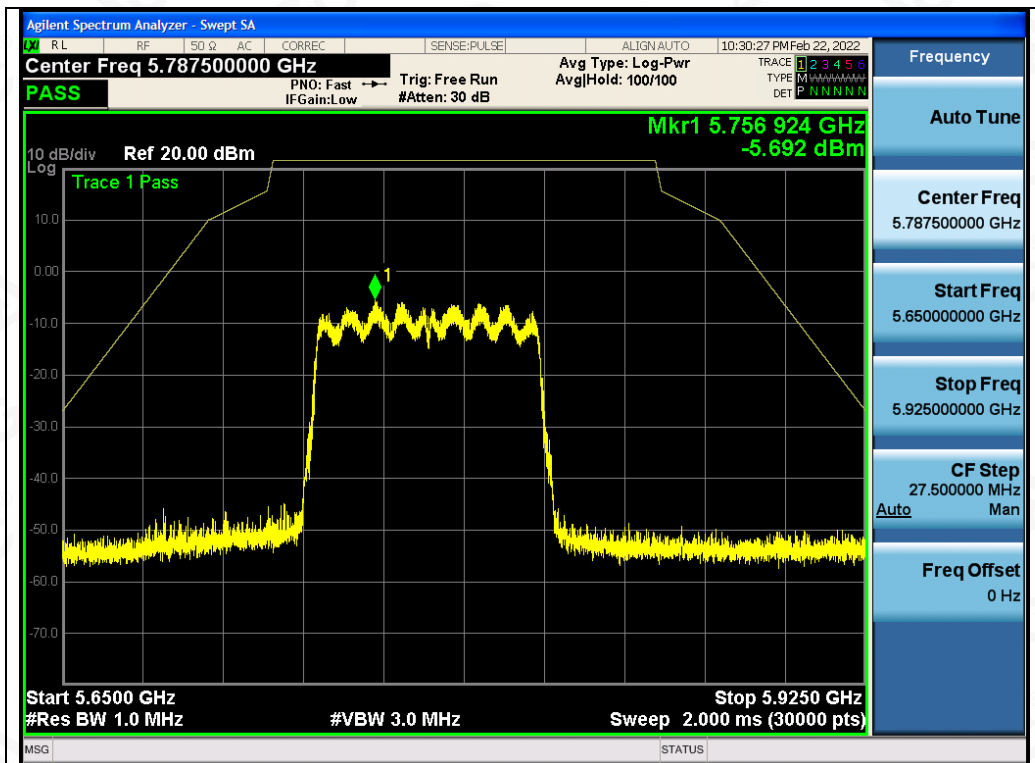




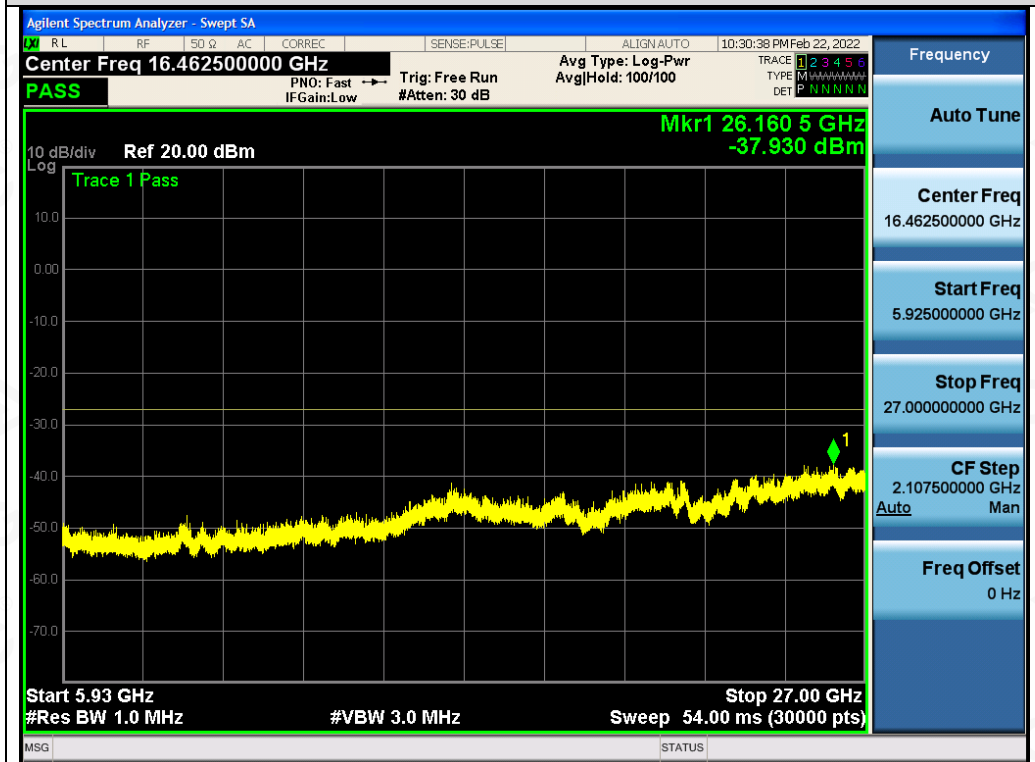
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Test\_Graph\_802.11ac80\_ANT2\_5775\_MCS9\_Frequency Band3

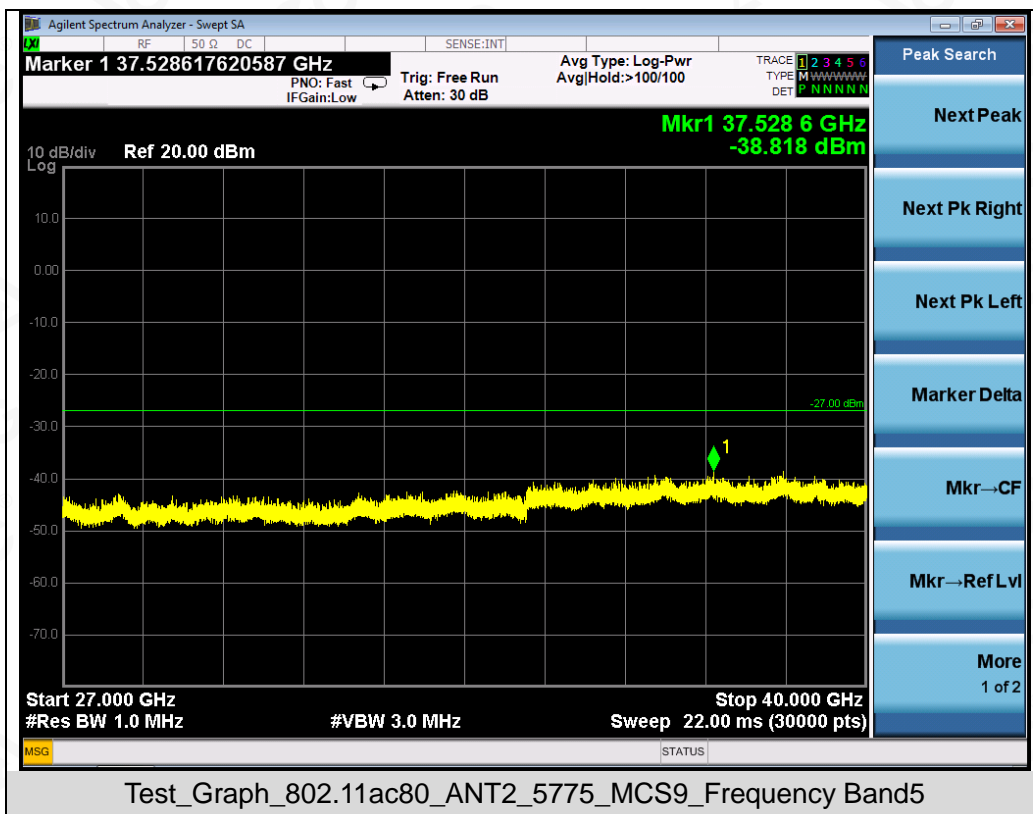


Test\_Graph\_802.11ac80\_ANT2\_5775\_MCS9\_Frequency Band4

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Note: All the antennas have been pre-tested, and all modes of each antenna are tested. The antenna 2 in 802.11a mode is the worst case and recorded in the test report. For the 802.11n and the 802.11ac mode, the worst case Antenna 2 has more than 3dB margins, so the MIMO mode also compliance the limit.

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## 11. RADIATED EMISSION

### 11.1. MEASUREMENT PROCEDURE

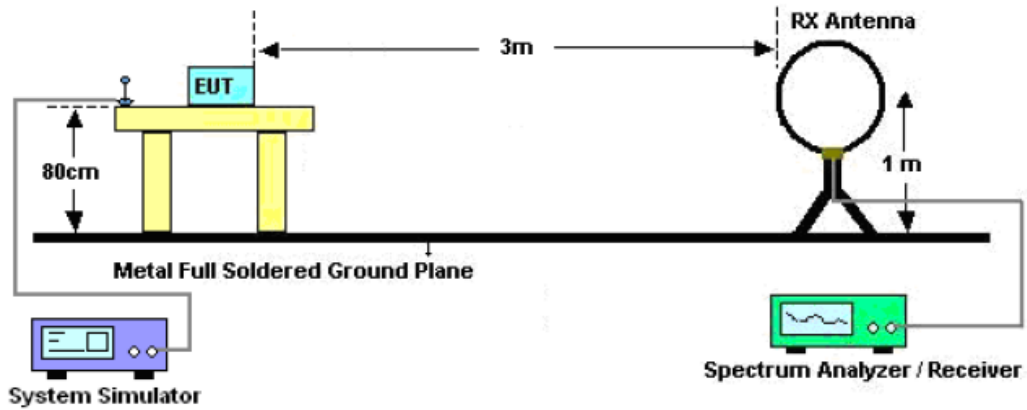
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated 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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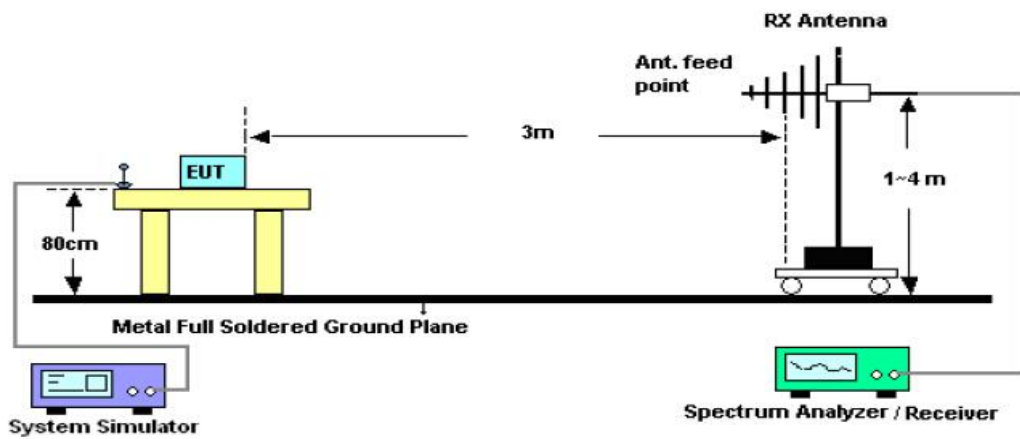


### 11.2. TEST SETUP

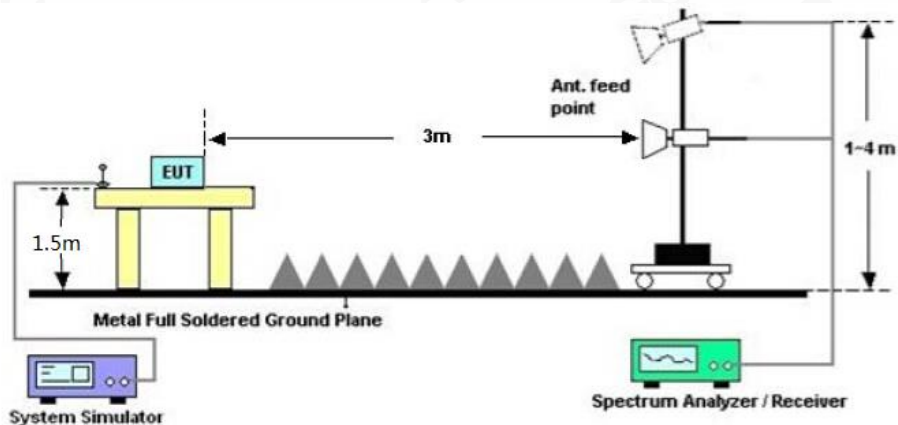
Radiated Emission Test-Setup Frequency Below 30MHz



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.

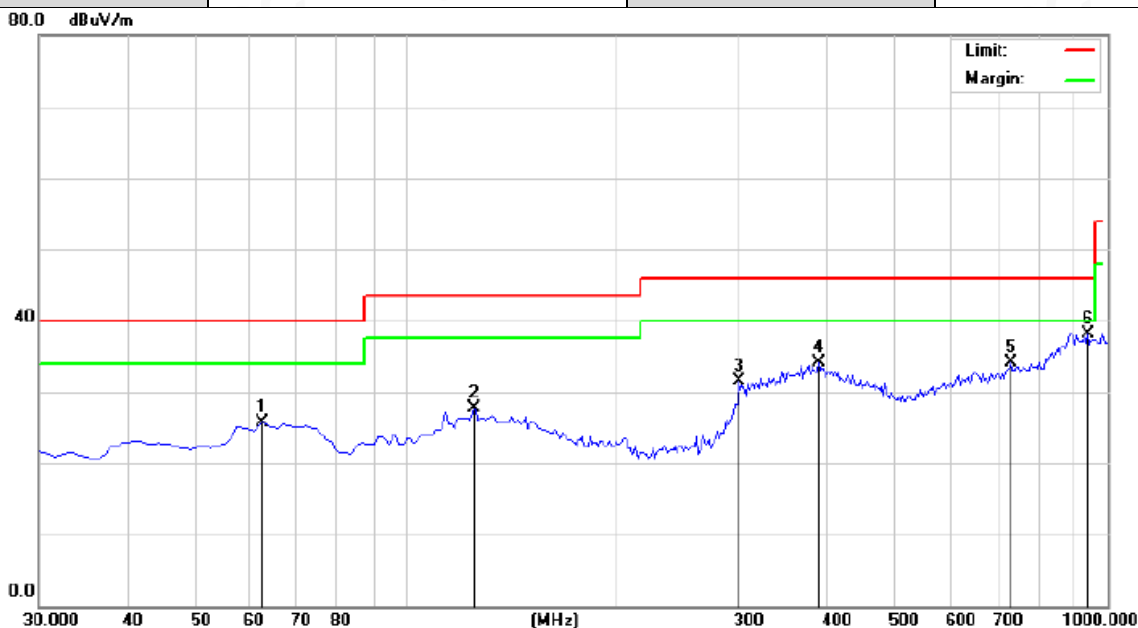
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**Radiated emission from 30MHz to 1000MHz**

<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11c80 5610MHz	<b>Antenna</b>	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		62.3333	14.07	11.63	25.70	40.00	-14.30	peak
2		125.3833	14.75	12.88	27.63	43.50	-15.87	peak
3		299.9833	14.98	16.43	31.41	46.00	-14.59	peak
4		388.9000	15.69	18.43	34.12	46.00	-11.88	peak
5		733.2500	15.50	18.57	34.07	46.00	-11.93	peak
6	*	941.8000	15.29	22.91	38.20	46.00	-7.80	peak

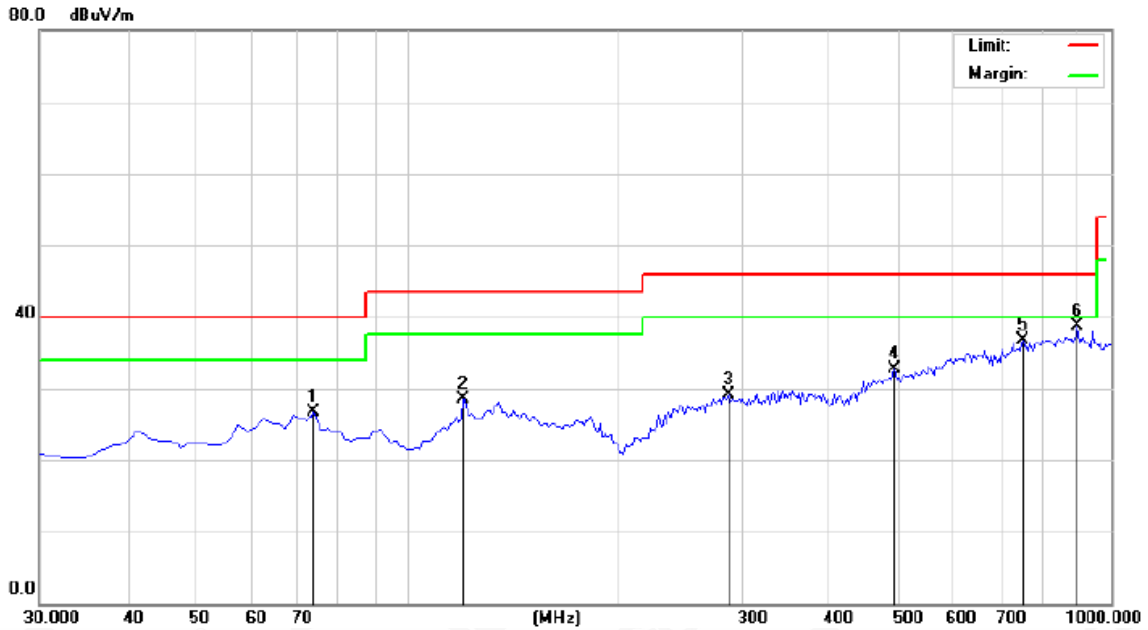
**RESULT: PASS**

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<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11c80 5610MHz	<b>Antenna</b>	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		73.6500	15.36	11.32	26.68	40.00	-13.32	peak
2		120.5333	15.48	12.98	28.46	43.50	-15.04	peak
3		287.0500	14.42	14.77	29.19	46.00	-16.81	peak
4		493.9833	15.94	16.81	32.75	46.00	-13.25	peak
5		752.6500	15.36	21.34	36.70	46.00	-9.30	peak
6	*	896.5333	16.01	22.63	38.64	46.00	-7.36	peak

**RESULT: PASS**

**Note:** All test channels had been tested. The 802.11ac80 at 5610MHz 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**

<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5180MHz	<b>Antenna</b>	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	46.28	9.14	55.42	68.20	-12.78	peak
15540.063	40.15	10.22	50.37	74.00	-23.63	peak
15540.063	31.27	10.22	41.49	54.00	-12.51	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	47.15	9.14	56.29	68.20	-11.91	peak
15540.063	42.37	10.22	52.59	74.00	-21.41	peak
15540.063	32.46	10.22	42.68	54.00	-11.32	AVG

Remark:

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

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<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5200MHz	<b>Antenna</b>	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	47.61	9.14	56.75	68.20	-11.45	peak
15600.063	42.33	10.22	52.55	74.00	-21.45	peak
15600.063	32.69	10.22	42.91	54.00	-11.09	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	46.58	9.14	55.72	68.20	-12.48	peak
15600.063	41.07	10.22	51.29	74.00	-22.71	peak
15600.063	32.64	10.22	42.86	54.00	-11.14	AVG

Remark:

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

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<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5240MHz	<b>Antenna</b>	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	46.28	9.27	55.55	68.20	-12.65	peak
15720.063	40.37	10.38	50.75	74.00	-23.25	peak
15720.063	31.59	10.38	41.97	54.00	-12.03	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	49.34	9.27	58.61	68.20	-9.59	peak
15720.063	42.17	10.38	52.55	74.00	-21.45	peak
15720.063	32.57	10.38	42.95	54.00	-11.05	AVG

Remark:

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

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<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5745MHz	<b>Antenna</b>	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
11490.042	46.37	9.42	55.79	74.00	-18.21	peak
11490.042	37.84	9.42	47.26	54.00	-6.74	AVG
17235.063	41.06	10.51	51.57	68.20	-16.63	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
11490.042	46.28	9.42	55.70	74.00	-18.30	peak
11490.042	36.57	9.42	45.99	54.00	-8.01	AVG
17235.063	40.16	10.51	50.67	68.20	-17.53	peak

Remark:

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

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<b>EUT</b>	Smart Touch Screen Terminal	<b>Model Name</b>	CM800
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5260MHz	<b>Antenna</b>	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	48.61	9.29	57.90	68.20	-10.30	peak
15780.066	42.11	10.42	52.53	74.00	-21.47	peak
15780.066	31.27	10.42	41.69	54.00	-12.31	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	47.66	9.29	56.95	68.20	-11.25	peak
15780.066	41.94	10.42	52.36	74.00	-21.64	peak
15780.066	32.36	10.42	42.78	54.00	-11.22	AVG

**Remark:**  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Smart Touch Screen Terminal	<b>Model Name</b>	CM800
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5300MHz	<b>Antenna</b>	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	47.61	9.31	56.92	74.00	-17.08	peak
10600.044	38.51	9.31	47.82	54.00	-6.18	AVG
15900.066	42.16	10.44	52.60	74.00	-21.40	peak
15900.066	33.14	10.44	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
10600.044	48.31	9.31	57.62	74.00	-16.38	peak
10600.044	37.51	9.31	46.82	54.00	-7.18	AVG
15780.066	43.16	10.44	53.60	74.00	-20.40	peak
15780.066	34.27	10.44	44.71	54.00	-9.29	AVG

**Remark:**  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Smart Touch Screen Terminal	<b>Model Name</b>	CM800
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5320MHz	<b>Antenna</b>	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	46.37	9.35	55.72	74.00	-18.28	peak
10640.044	37.84	9.35	47.19	54.00	-6.81	AVG
15960.066	41.25	10.46	51.71	74.00	-22.29	peak
15960.066	31.26	10.46	41.72	54.00	-12.28	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	48.34	9.35	57.69	74.00	-16.31	peak
10640.044	39.61	9.35	48.96	54.00	-5.04	AVG
15960.066	42.17	10.46	52.63	74.00	-21.37	peak
15960.066	32.57	10.46	43.03	54.00	-10.97	AVG

**Remark:**  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Smart Touch Screen Terminal	<b>Model Name</b>	CM800
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5500MHz	<b>Antenna</b>	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	46.28	9.37	55.65	74.00	-18.35	peak
11000.044	37.42	9.37	46.79	54.00	-7.21	AVG
16500.066	42.15	10.48	52.63	68.20	-15.57	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	47.69	9.37	57.06	74.00	-16.94	peak
11000.044	40.15	9.37	49.52	54.00	-4.48	AVG
16500.066	42.04	10.48	52.52	68.20	-15.68	peak

**Remark:**  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Smart Touch Screen Terminal	<b>Model Name</b>	CM800
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5600MHz	<b>Antenna</b>	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	49.61	9.38	58.99	74.00	-15.01	peak
11200.044	40.25	9.38	49.63	54.00	-4.37	AVG
16800.066	41.37	10.49	51.86	68.20	-16.34	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	48.61	9.38	57.99	74.00	-16.01	peak
11200.044	39.67	9.38	49.05	54.00	-4.95	AVG
16800.066	43.55	10.49	54.04	68.20	-14.16	peak

**Remark:**  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Smart Touch Screen Terminal	<b>Model Name</b>	CM800
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5700MHz	<b>Antenna</b>	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	48.31	9.39	57.70	74.00	-16.30	peak
11400.044	37.54	9.39	46.93	54.00	-7.07	AVG
17100.066	39.42	10.49	49.91	68.20	-18.29	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	48.61	9.39	58.00	74.00	-16.00	peak
11400.044	40.25	9.39	49.64	54.00	-4.36	AVG
17100.066	42.17	10.49	52.66	68.20	-15.54	peak

**Remark:**  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5785MHz	<b>Antenna</b>	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
11570.042	46.38	9.42	55.80	74.00	-18.20	peak
11570.042	35.27	9.42	44.69	54.00	-9.31	AVG
17355.063	41.06	10.51	51.57	68.20	-16.63	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
11570.042	46.28	9.42	55.70	74.00	-18.30	peak
11570.042	37.41	9.42	46.83	54.00	-7.17	AVG
17355.063	42.16	10.51	52.67	68.20	-15.53	peak

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

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<b>EUT</b>	USB WiFi Adapter	<b>Model Name</b>	EP-AC1689
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5825MHz	<b>Antenna</b>	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
11650.042	47.56	9.62	52.98	74.00	-21.02	peak
11650.042	38.52	9.62	45.05	54.00	-8.95	AVG
17475.063	42.96	10.75	47.61	68.20	-26.39	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
11650.042	46.38	9.62	53.55	74.00	-20.45	peak
11650.042	36.24	9.62	47.64	54.00	-6.36	AVG
17475.063	41.96	10.75	48.61	68.20	-25.39	peak

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.

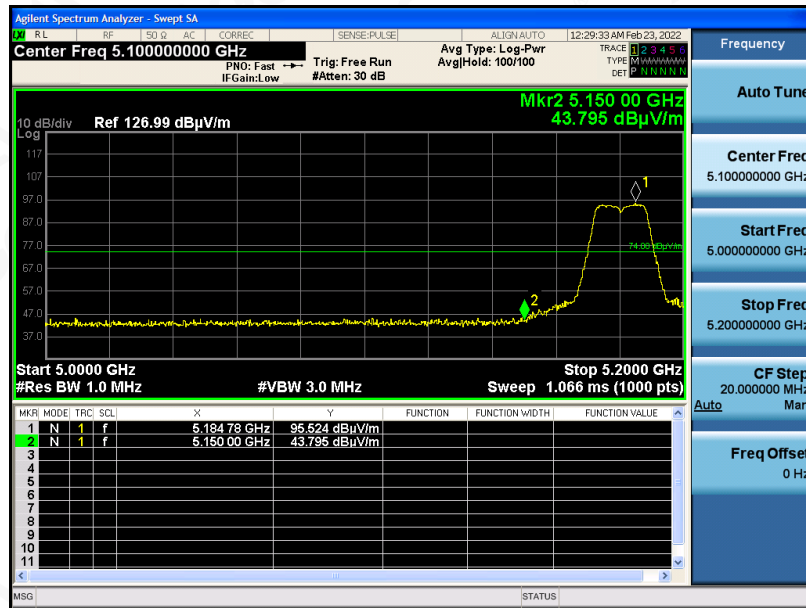
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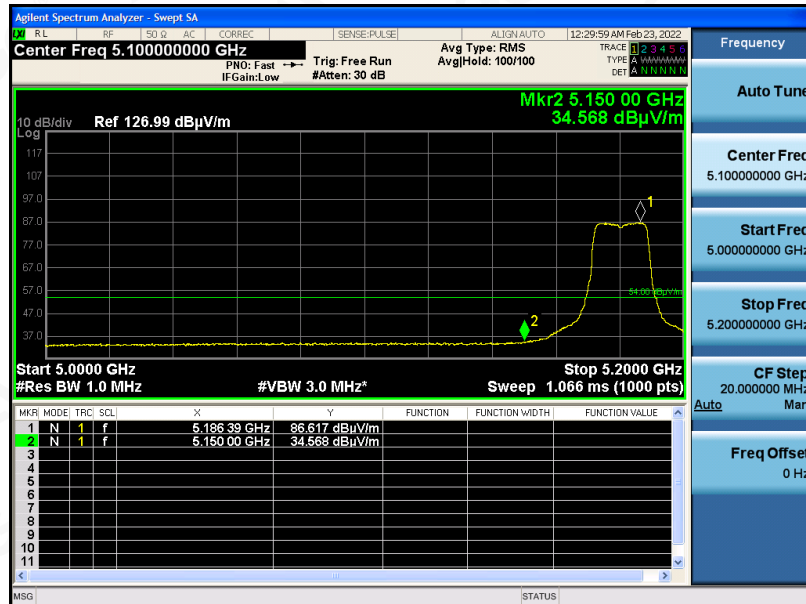
**Test result for band edge emission at restricted bands**

EUT	USB WiFi Adapter	Model Name	EP-AC1689
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**

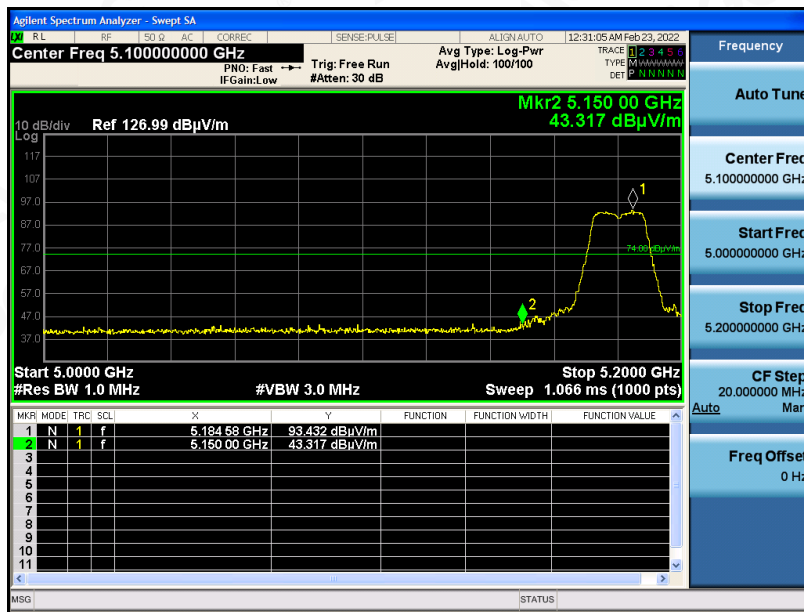
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Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

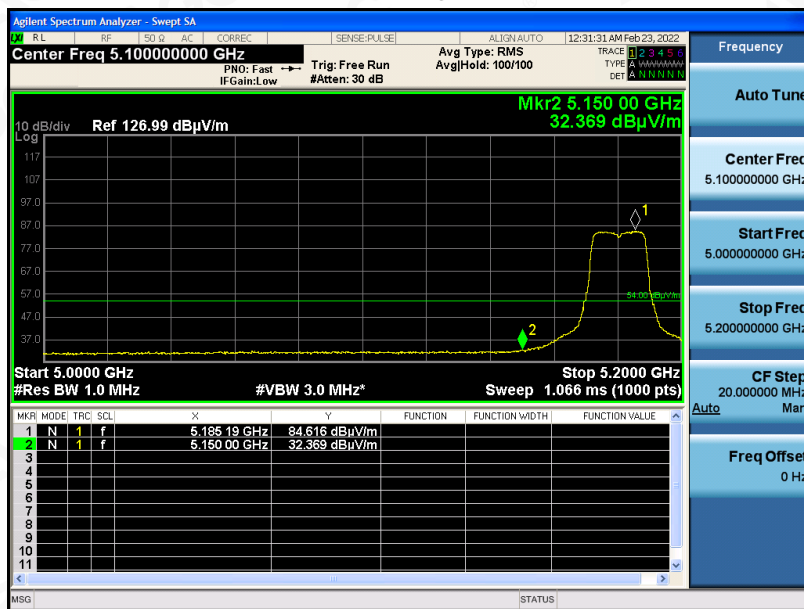


EUT	USB WiFi Adapter	Model Name	EP-AC1689
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

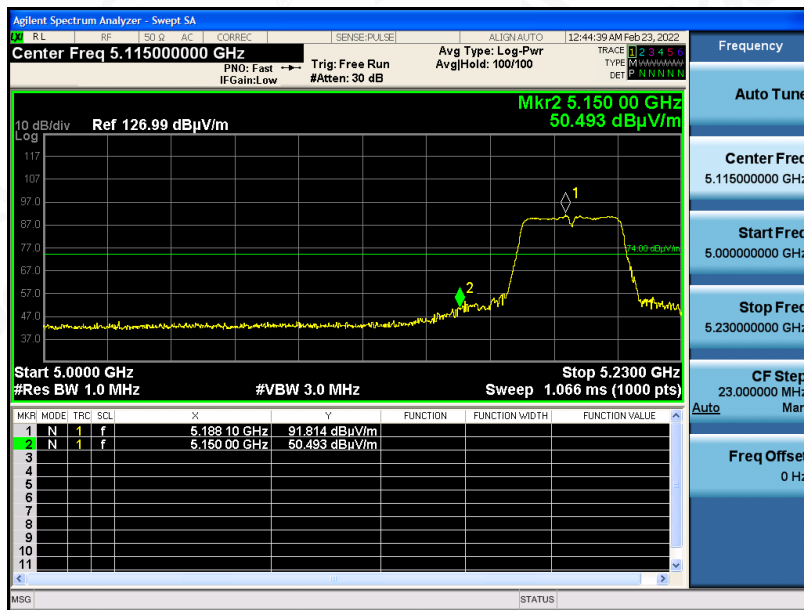
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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

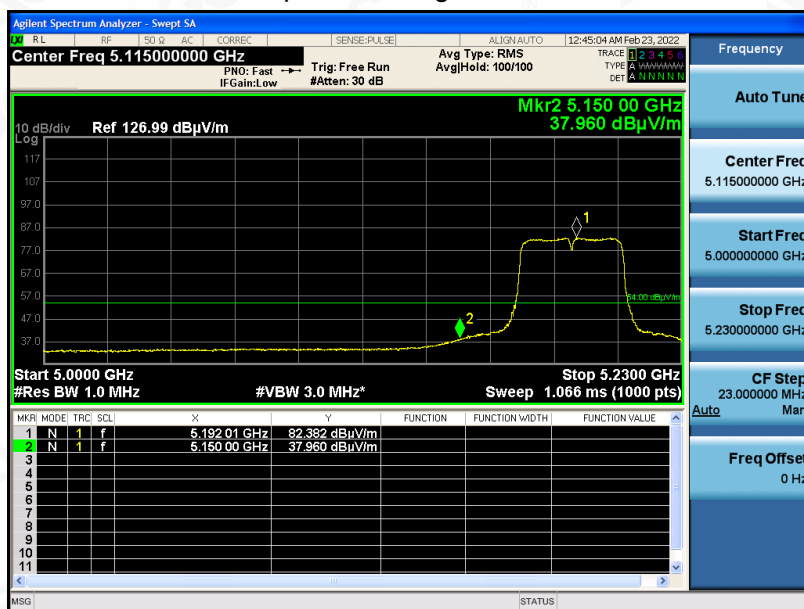


EUT	USB WiFi Adapter	Model Name	EP-AC1689
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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