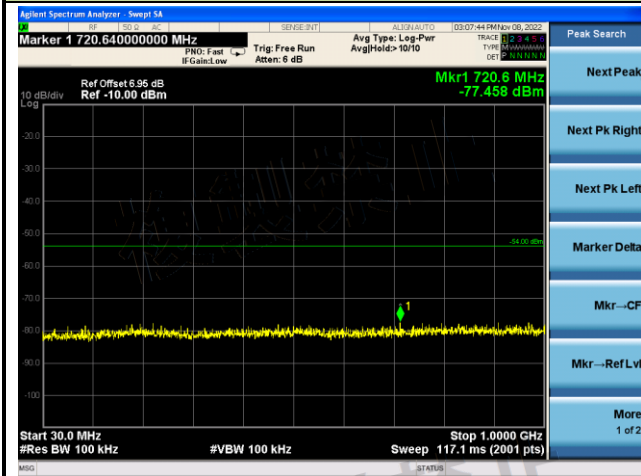
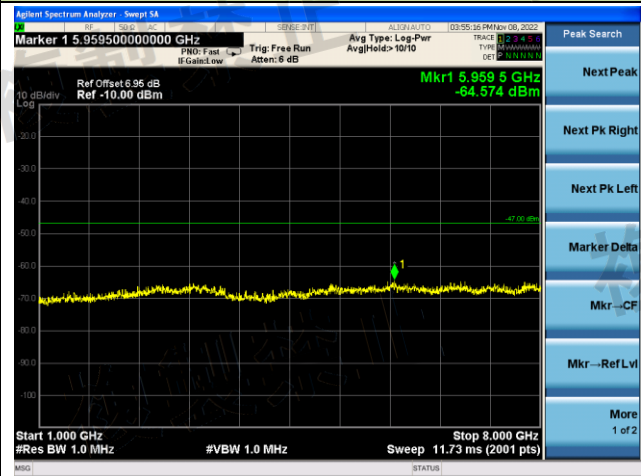


801.11ac-VHT40 Receiver Spurious Emissions

5510MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

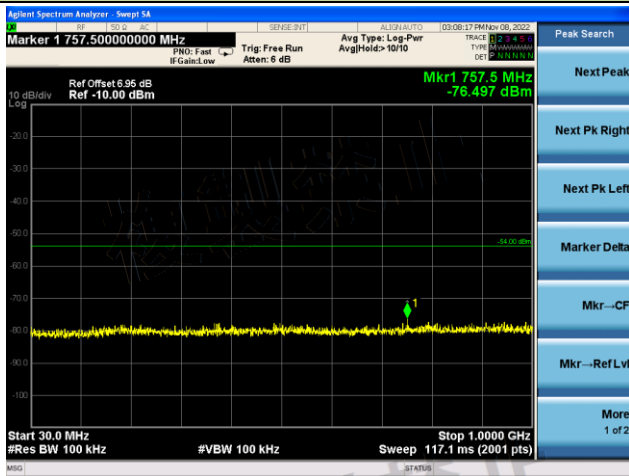
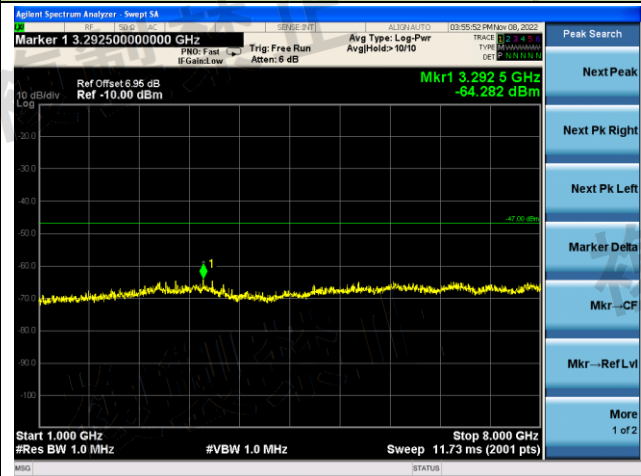


801.11ac-VHT40 Receiver Spurious Emissions

5590MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

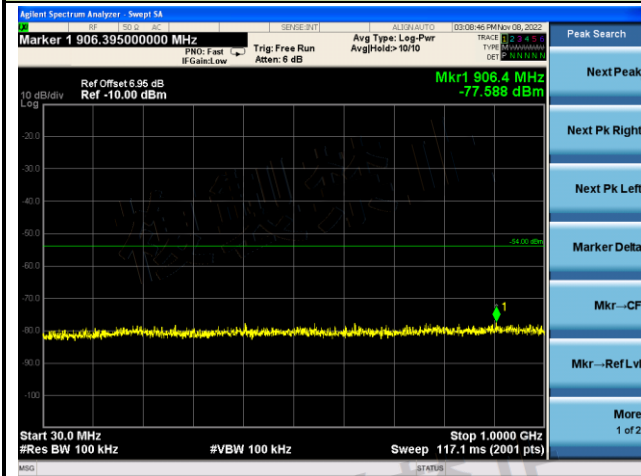
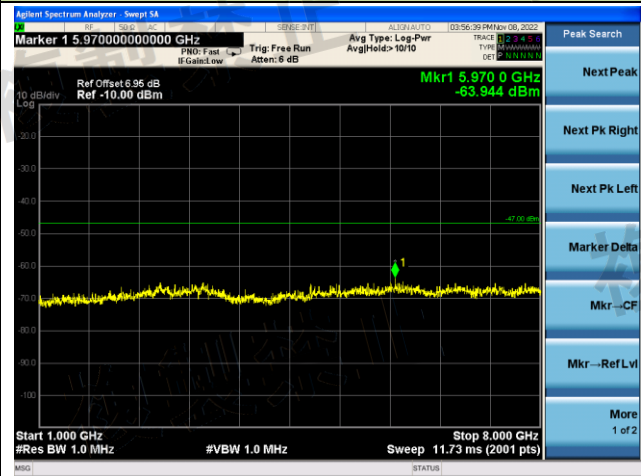


801.11ac-VHT40 Receiver Spurious Emissions

5670MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

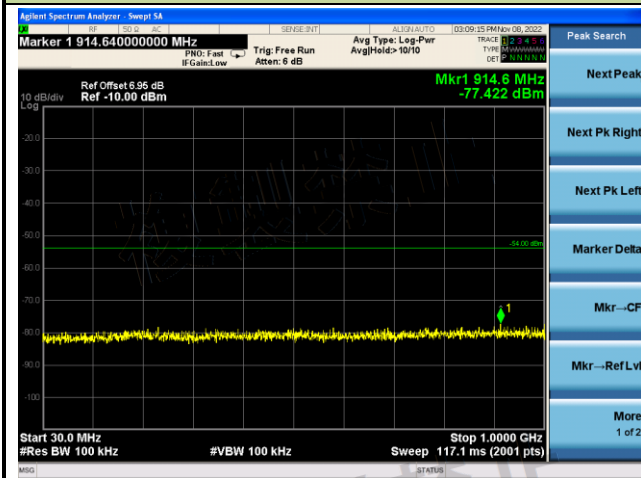
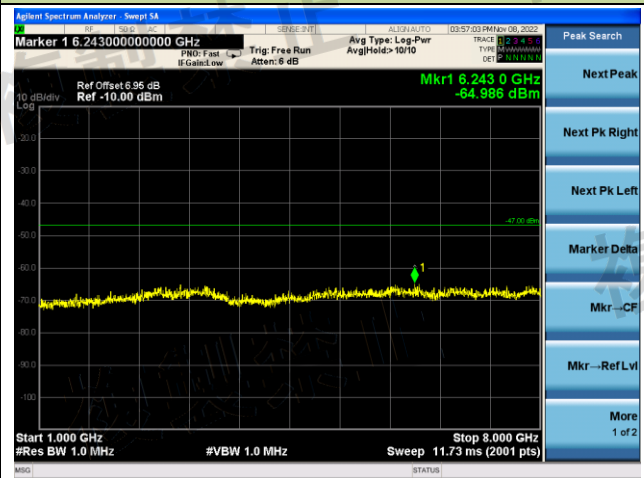


801.11ac-VHT40 Receiver Spurious Emissions

5710MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

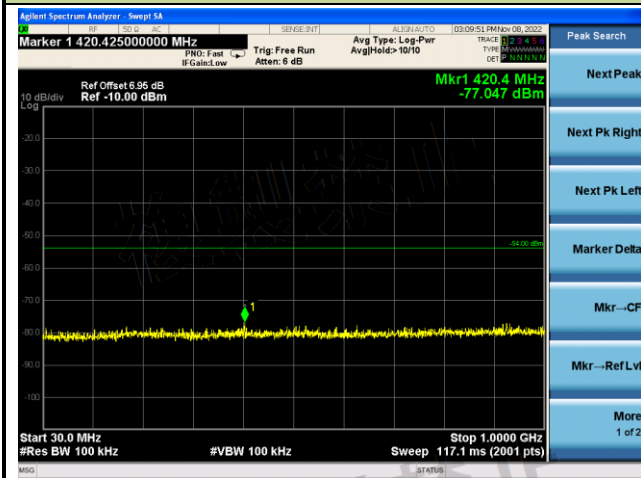
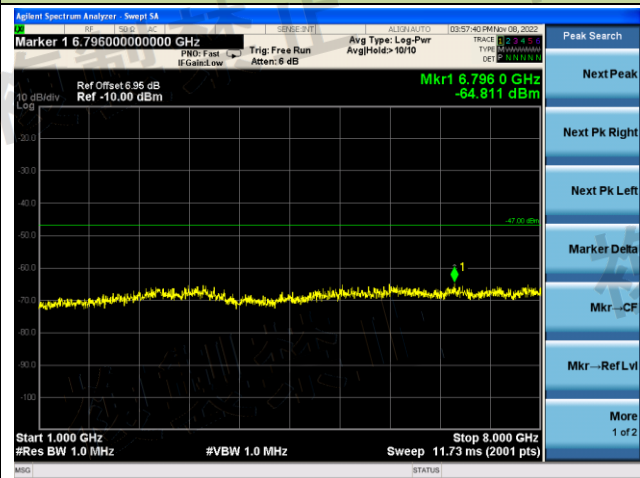


801.11ac-VHT80 Receiver Spurious Emissions

5210MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

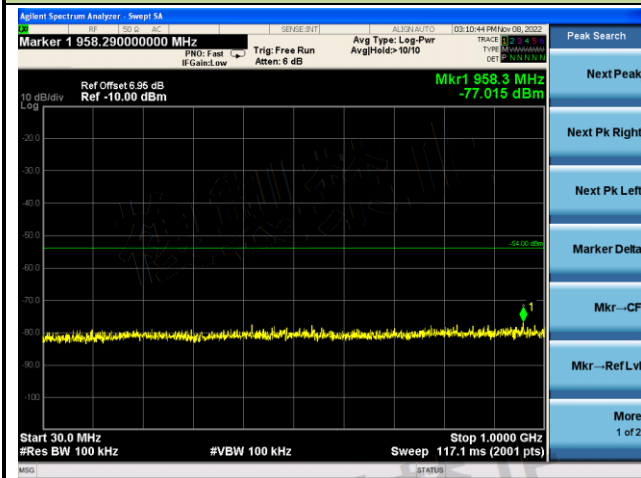
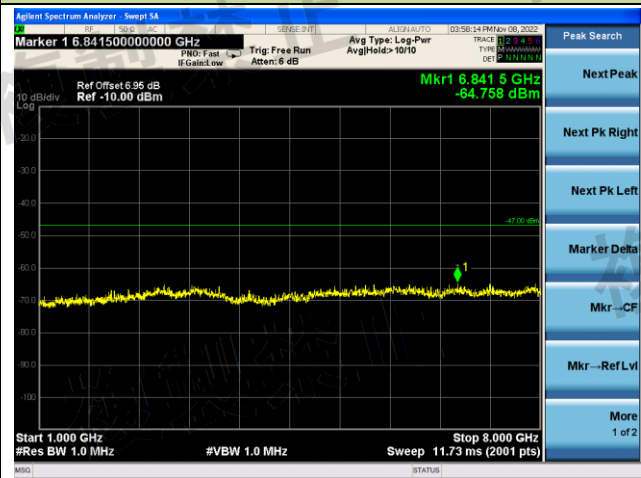


801.11ac-VHT80 Receiver Spurious Emissions

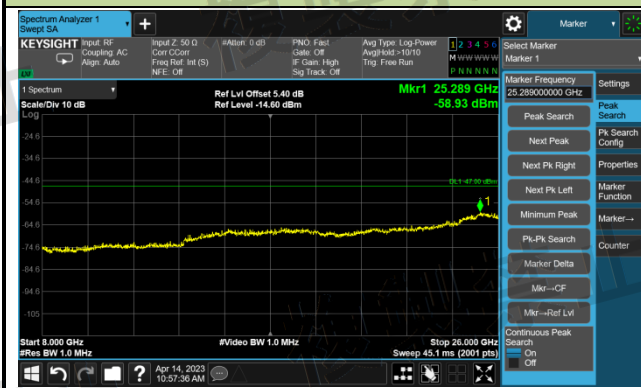
5290MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

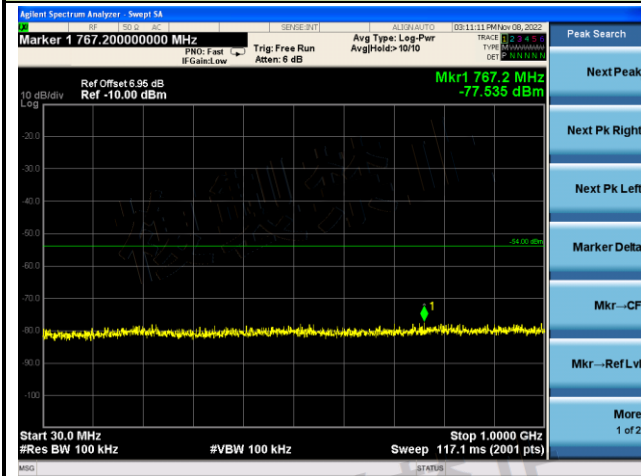
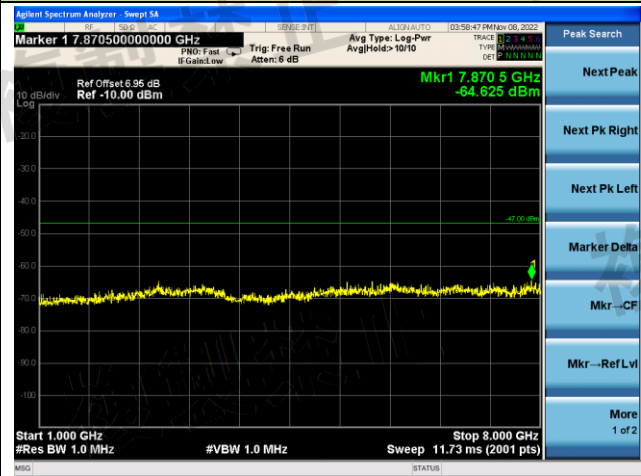


801.11ac-VHT80 Receiver Spurious Emissions

5530MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

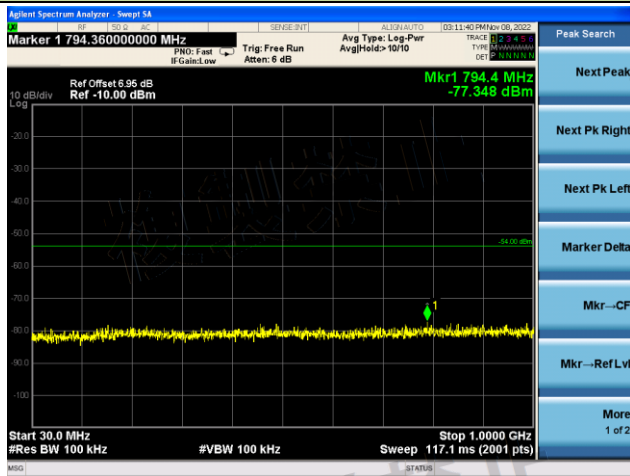
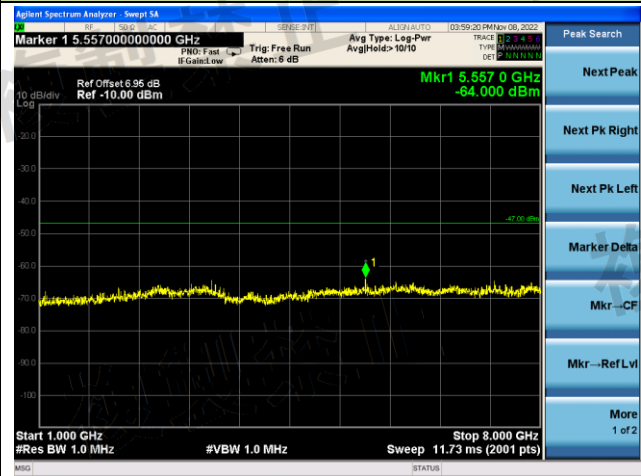


801.11ac-VHT80 Receiver Spurious Emissions

5610MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

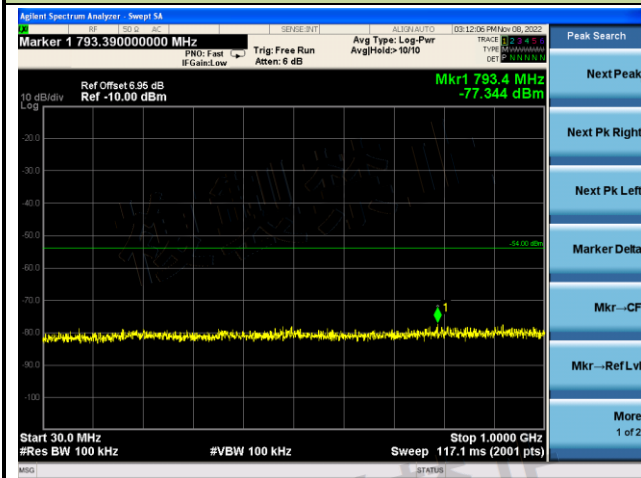
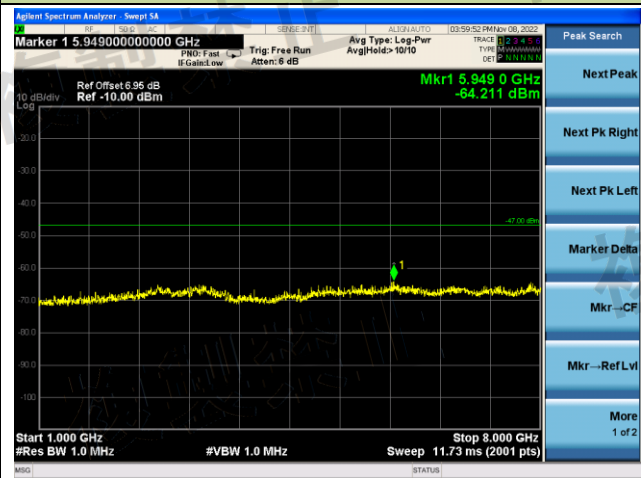


801.11ac-VHT80 Receiver Spurious Emissions

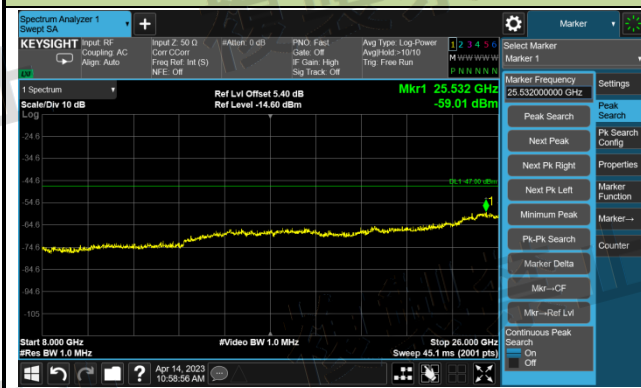
5690MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

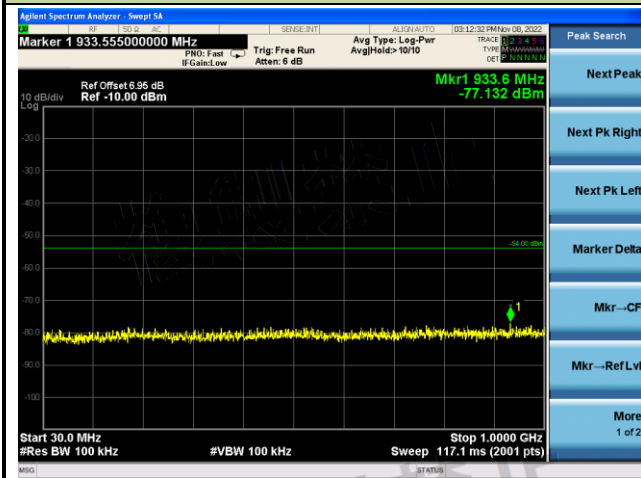
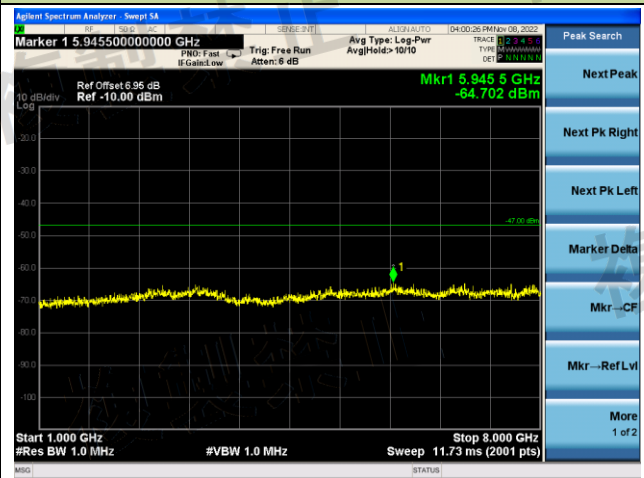


801.11ax-HE20 Receiver Spurious Emissions

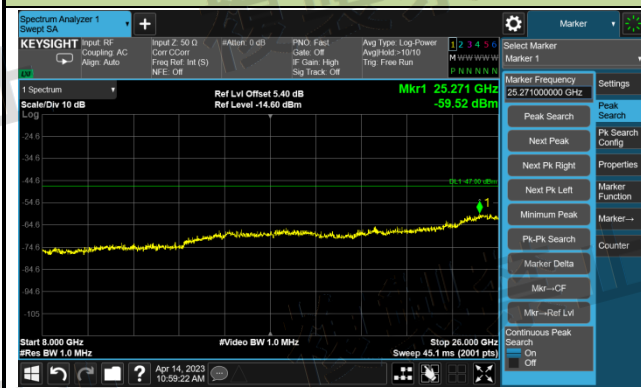
5180MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

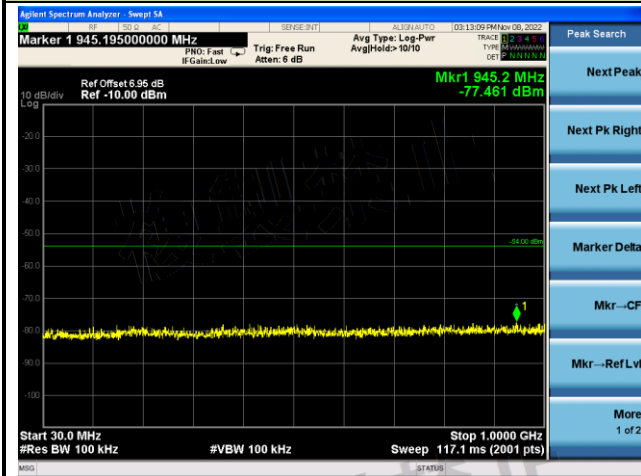
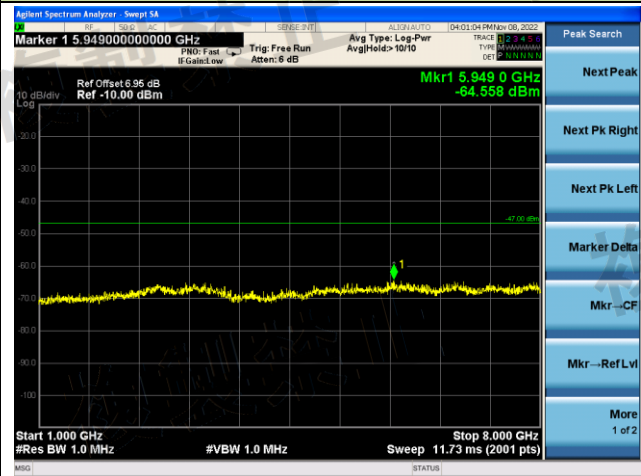


801.11ax-HE20 Receiver Spurious Emissions

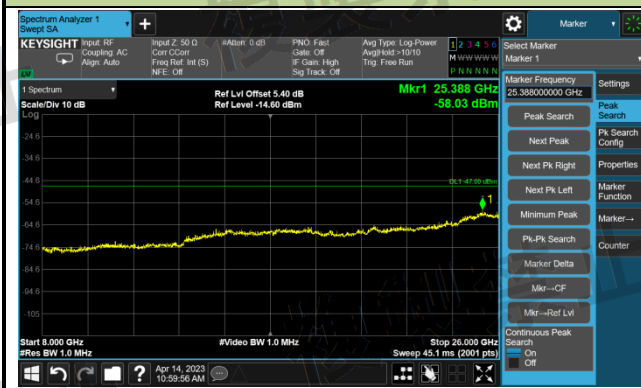
5220MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

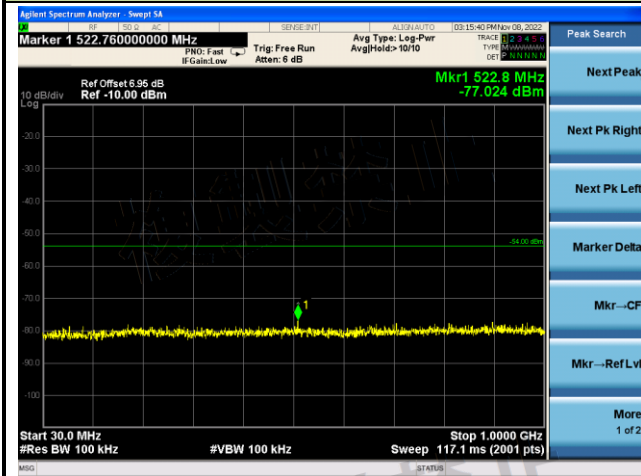
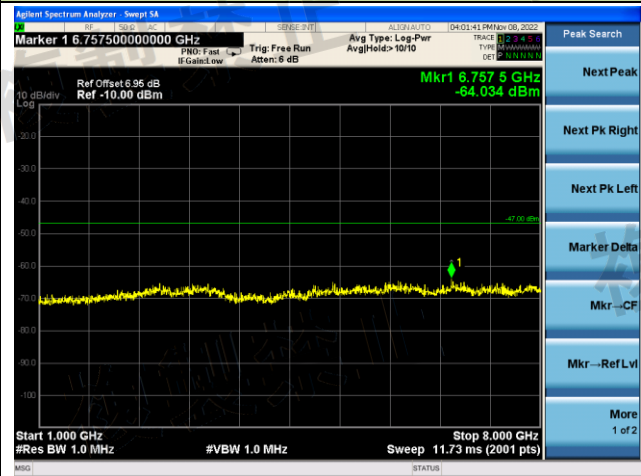


801.11ax-HE20 Receiver Spurious Emissions

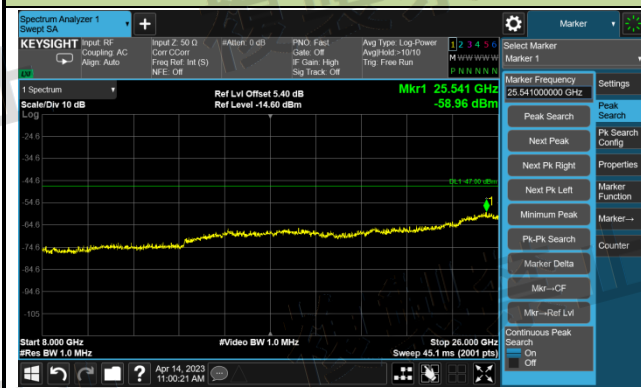
5240MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

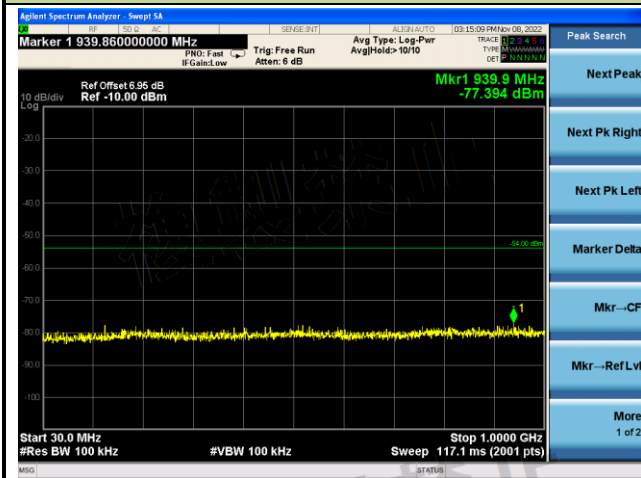
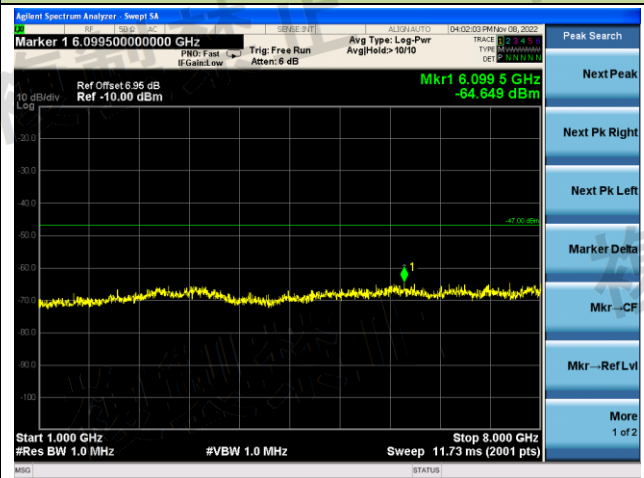


801.11ax-HE20 Receiver Spurious Emissions

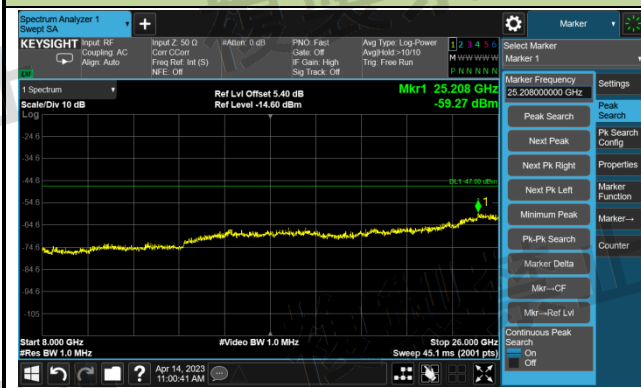
5260MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

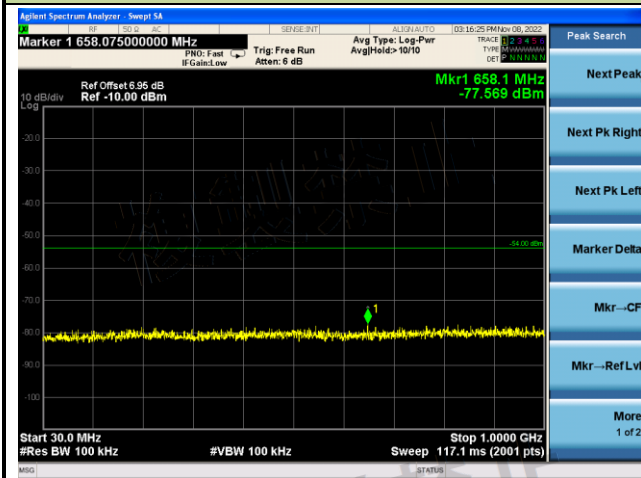
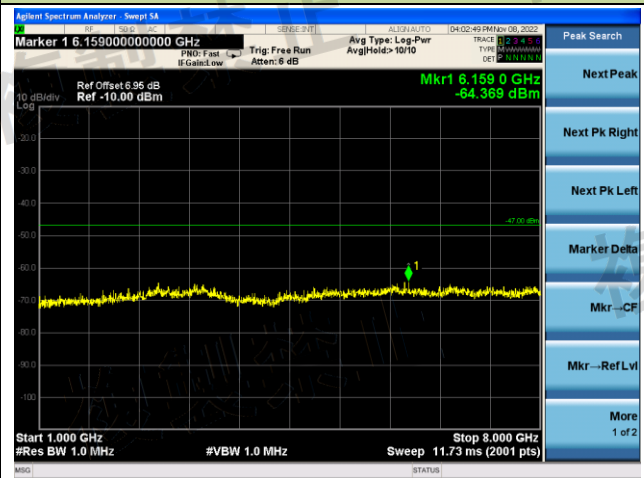


801.11ax-HE20 Receiver Spurious Emissions

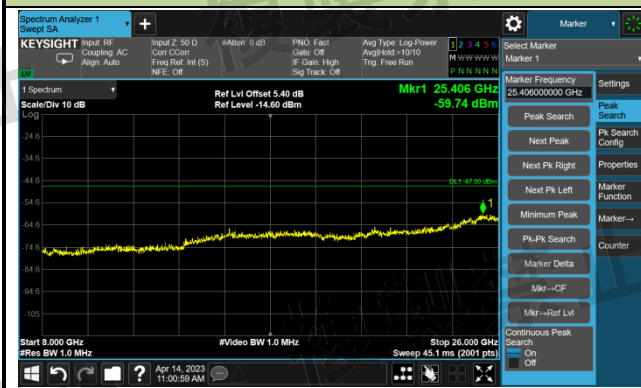
5300MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

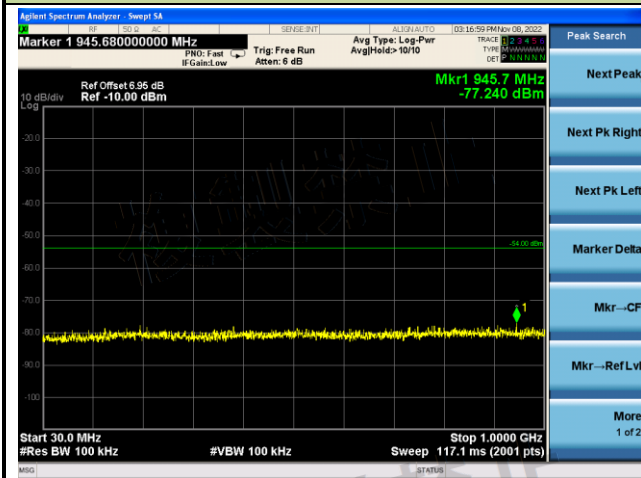
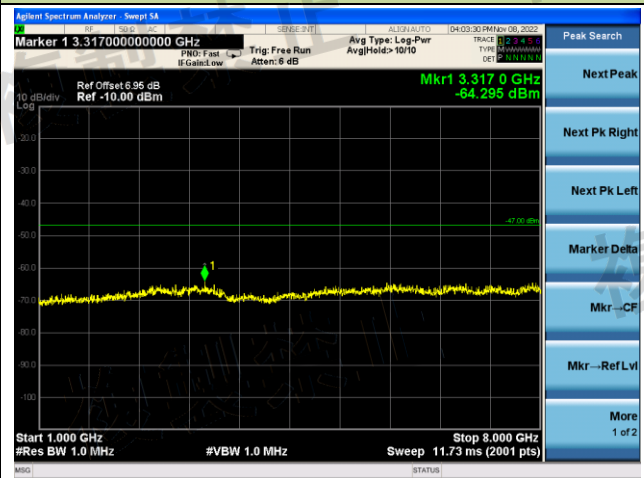


801.11ax-HE20 Receiver Spurious Emissions

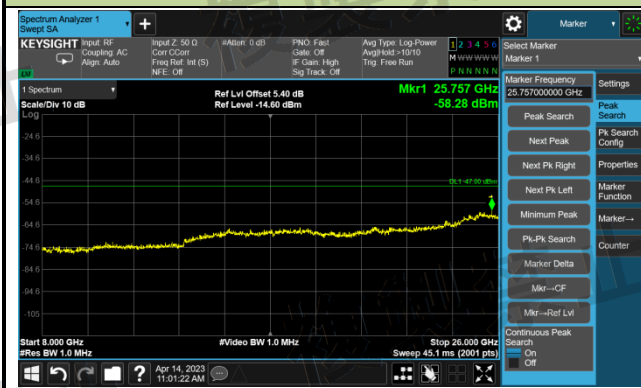
5320MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

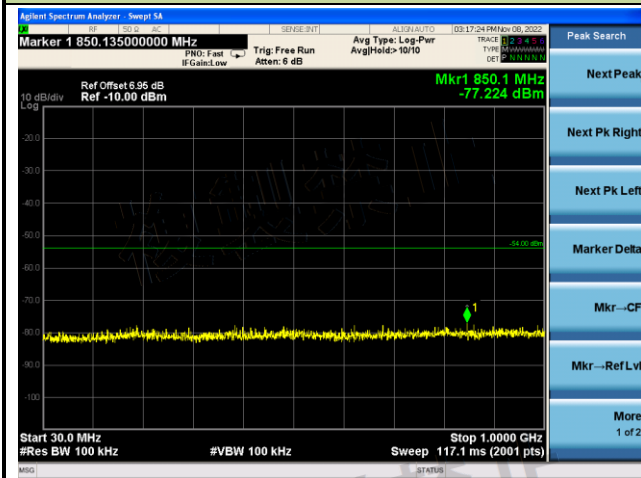
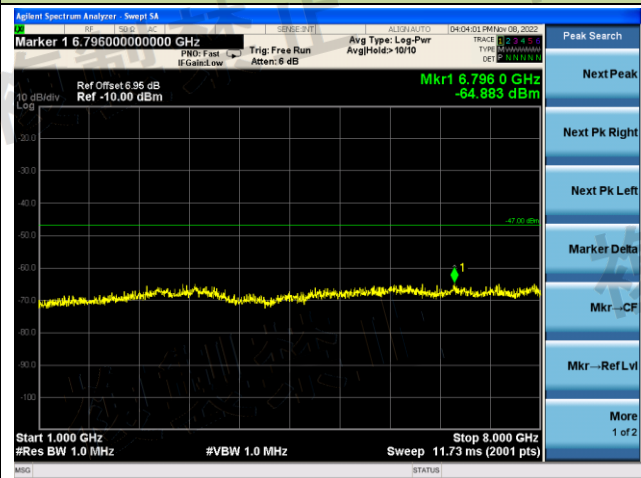


801.11ax-HE20 Receiver Spurious Emissions

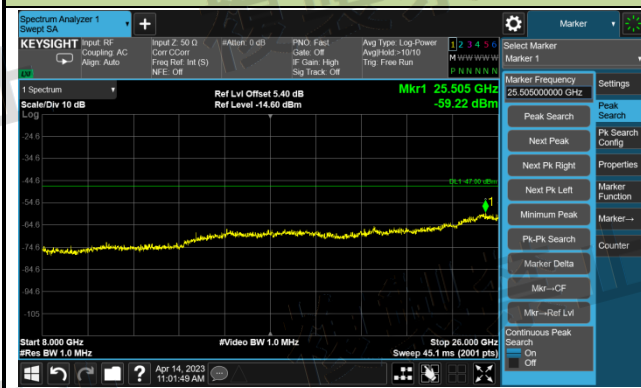
5500MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

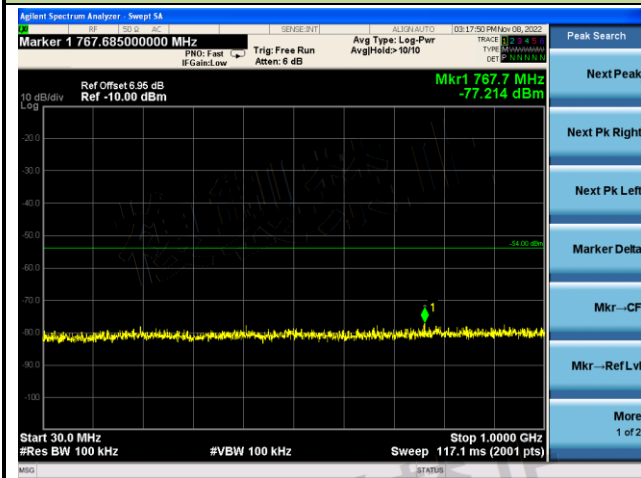
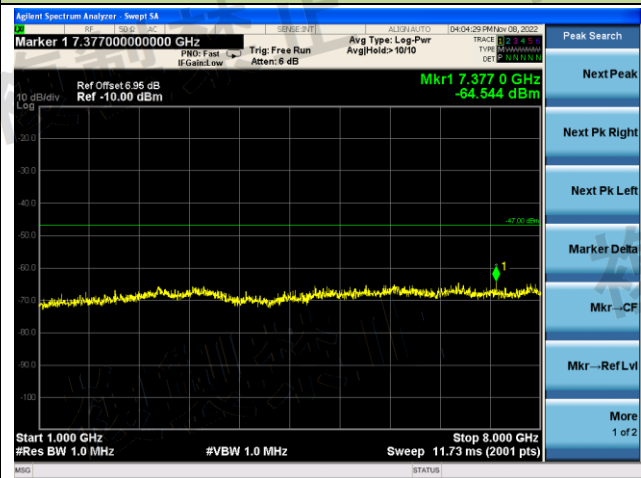


801.11ax-HE20 Receiver Spurious Emissions

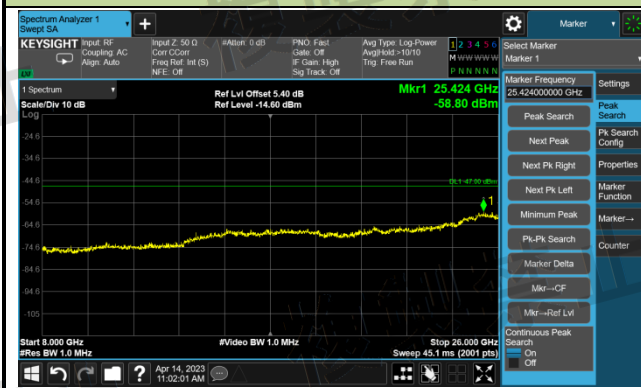
5600MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

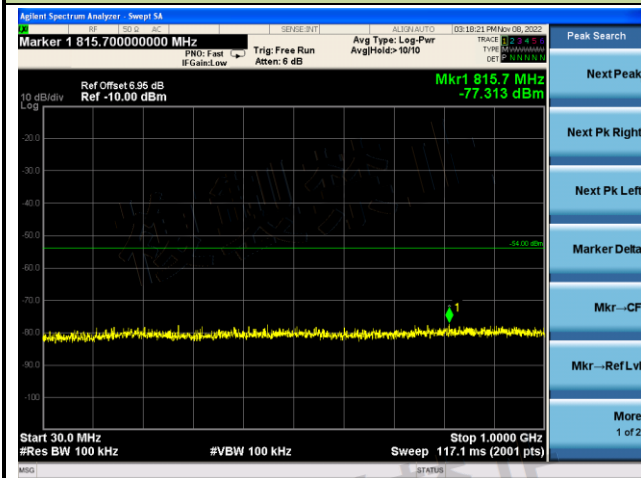
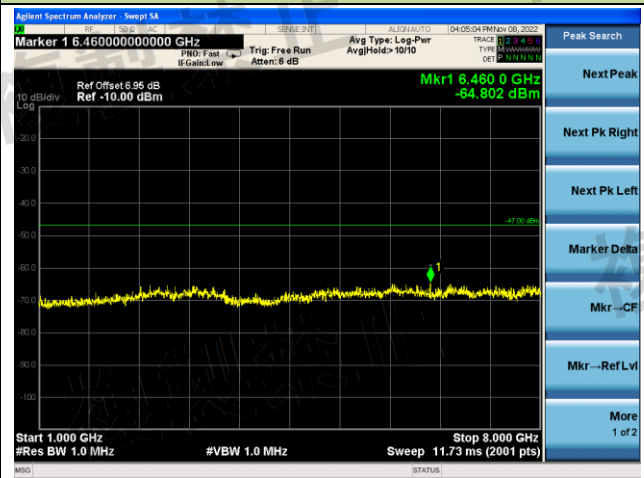


801.11ax-HE20 Receiver Spurious Emissions

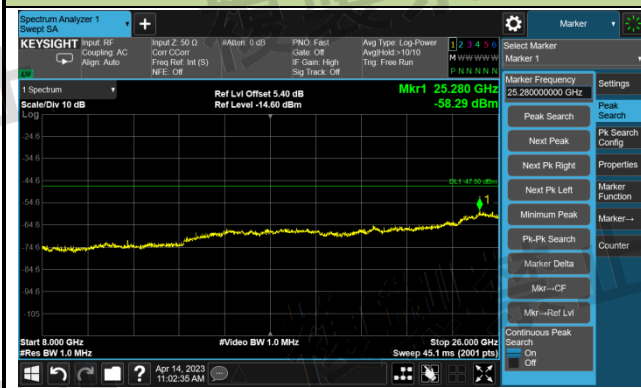
5700MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

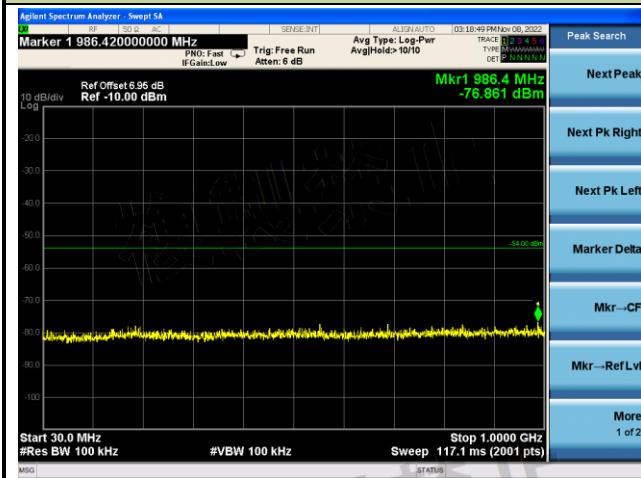
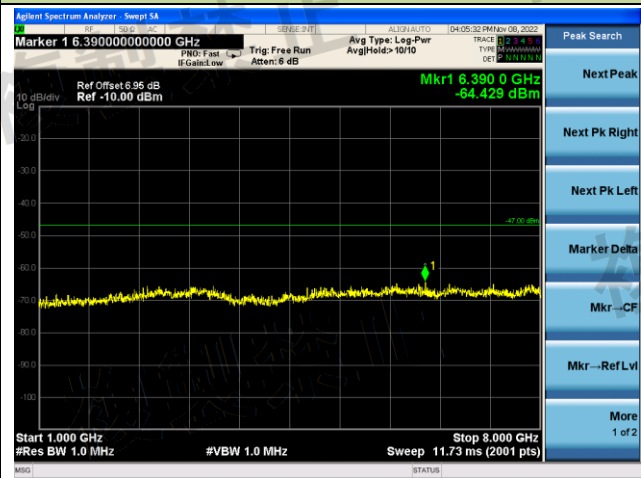


801.11ax-HE20 Receiver Spurious Emissions

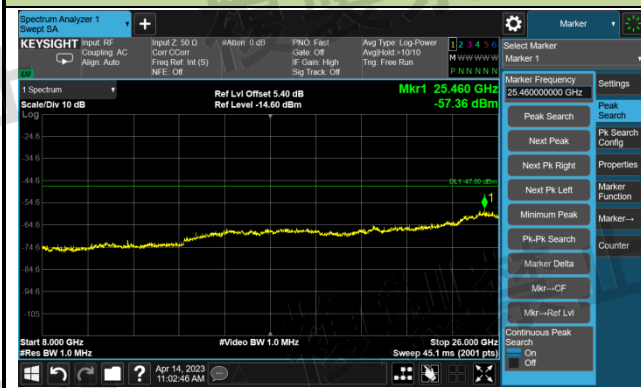
5720MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

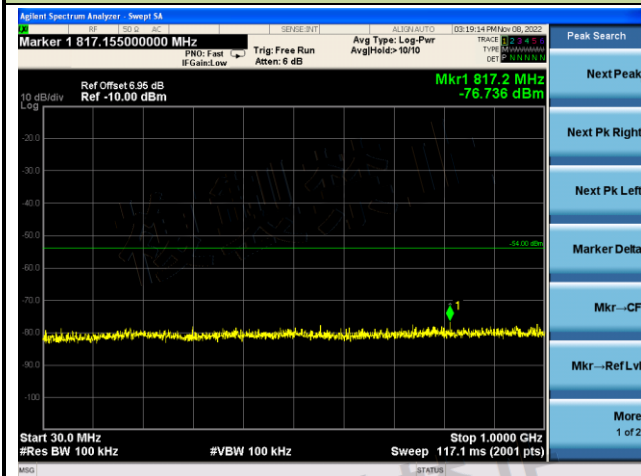
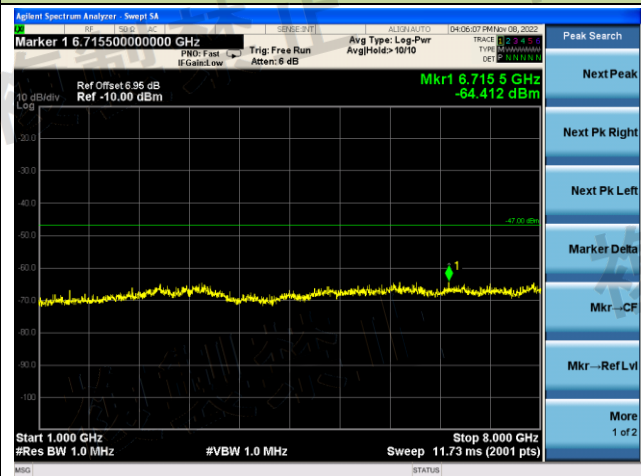


801.11ax-HE40 Receiver Spurious Emissions

5190MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

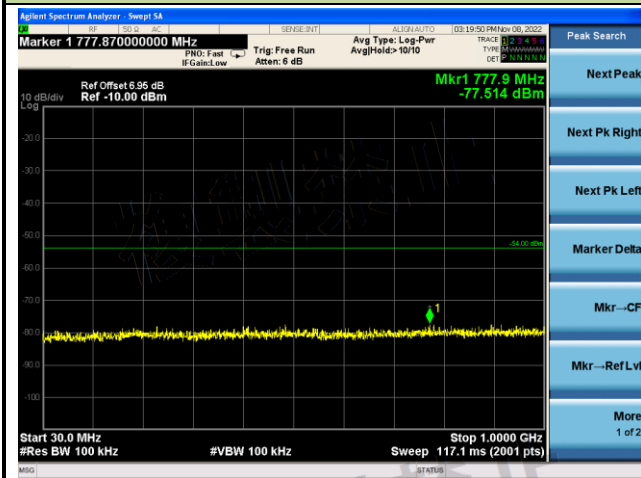
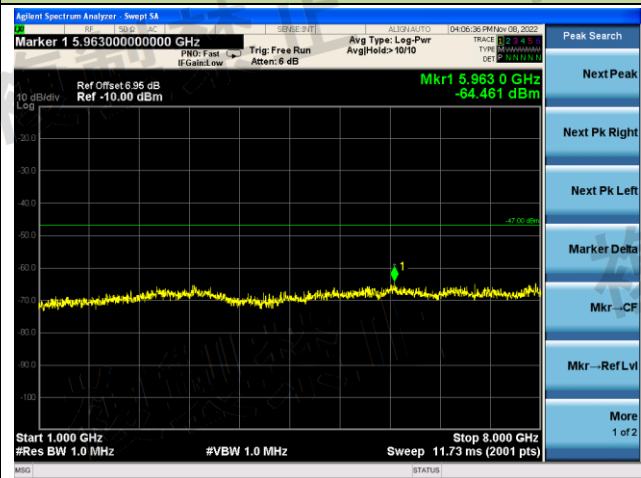


801.11ax-HE40 Receiver Spurious Emissions

5230MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

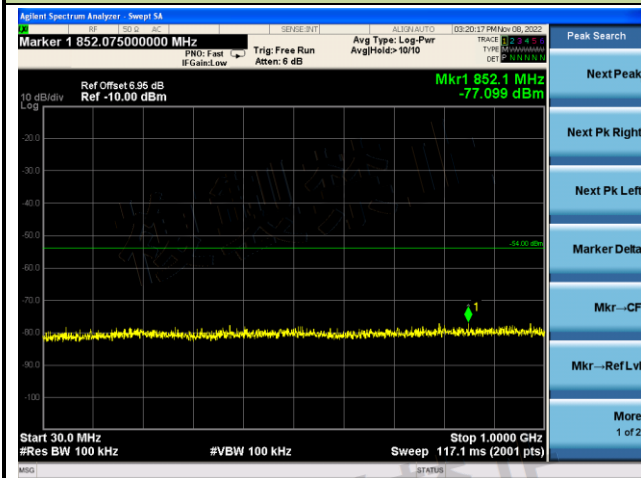
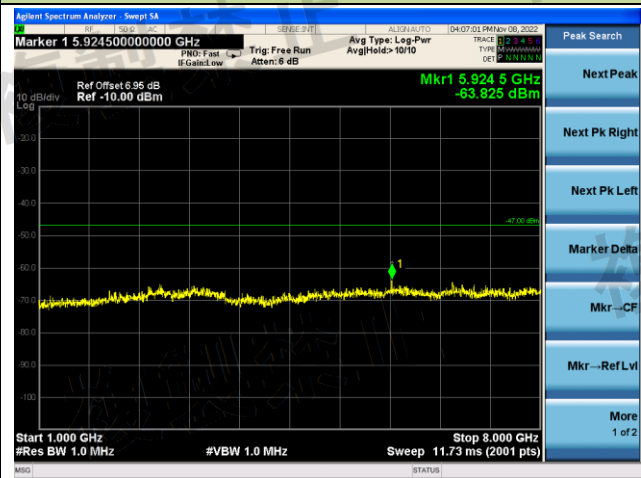


801.11ax-HE40 Receiver Spurious Emissions

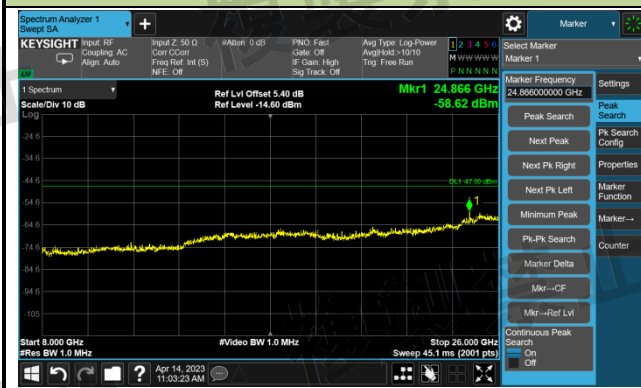
5270MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

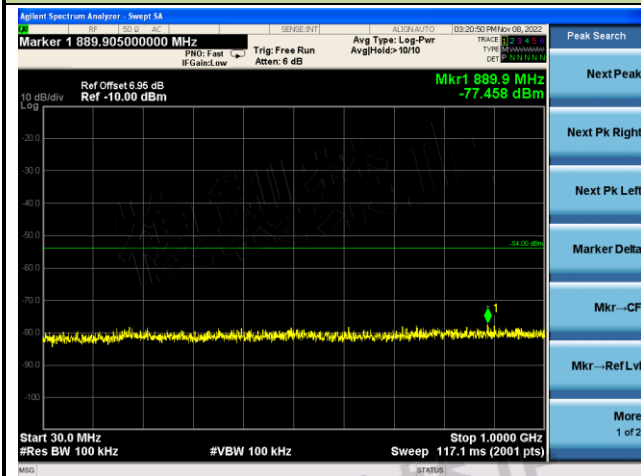
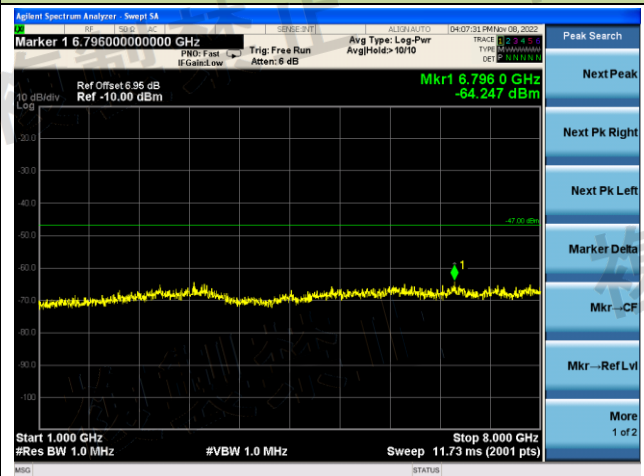


801.11ax-HE40 Receiver Spurious Emissions

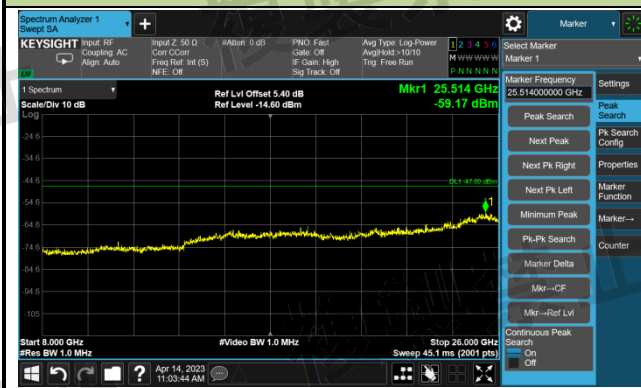
5310MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

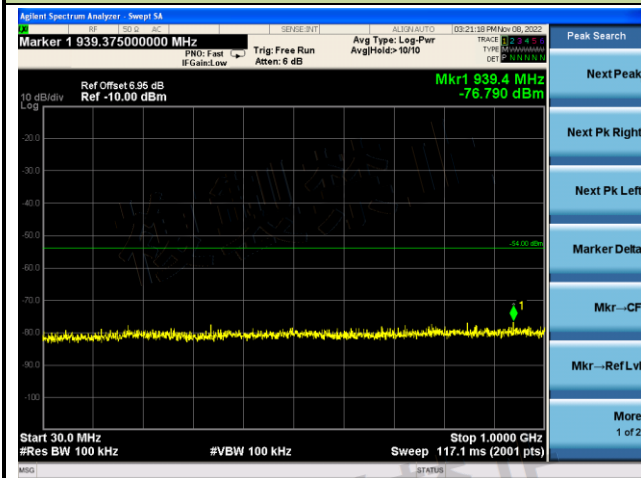
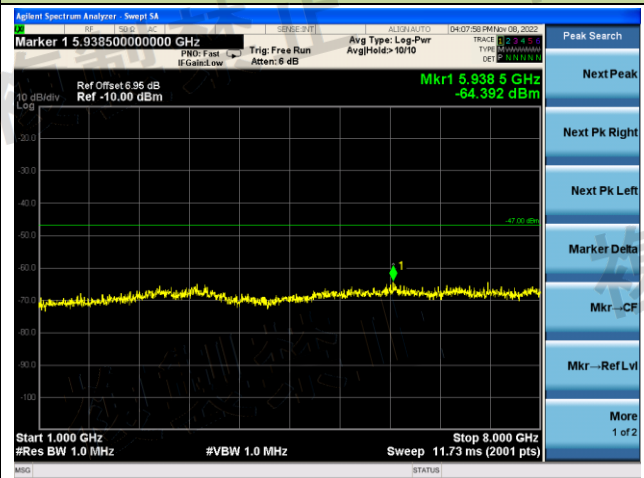


801.11ax-HE40 Receiver Spurious Emissions

5510MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

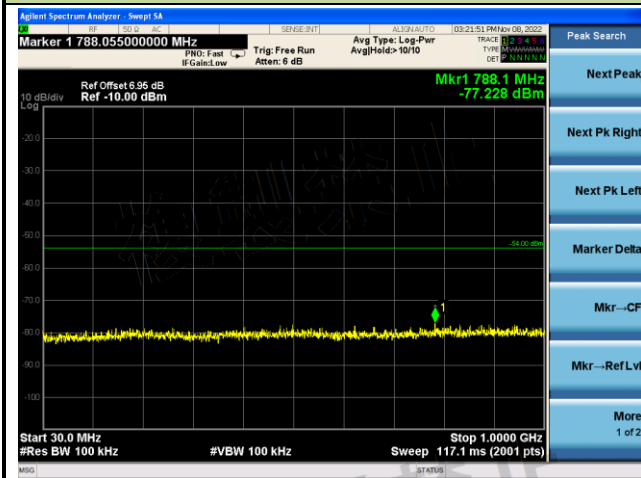
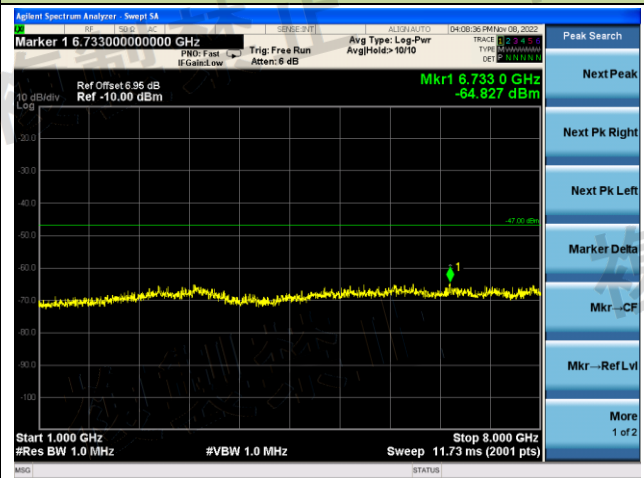


801.11ax-HE40 Receiver Spurious Emissions

5590MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

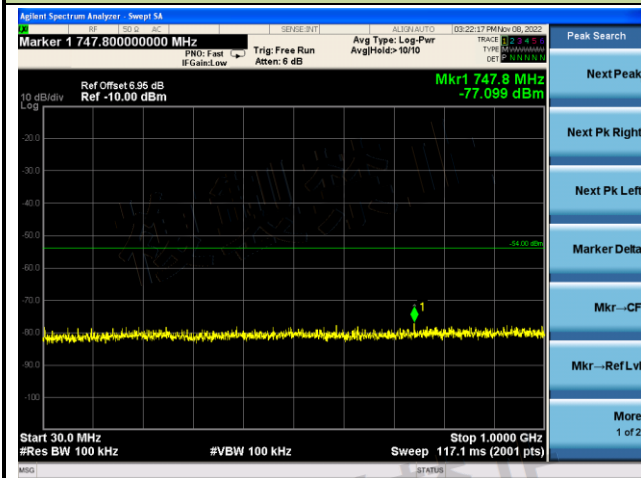
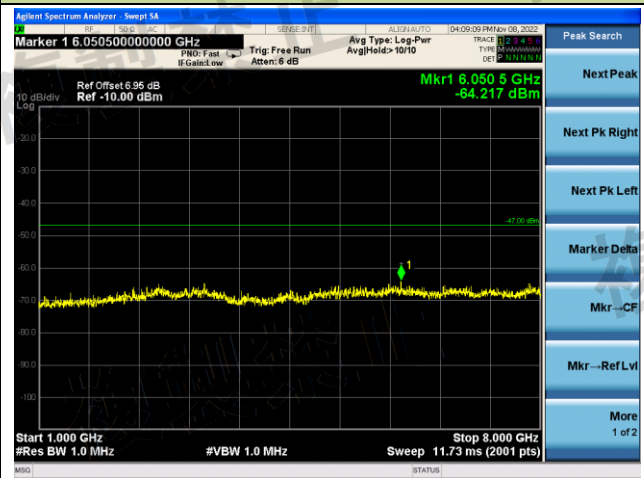


801.11ax-HE40 Receiver Spurious Emissions

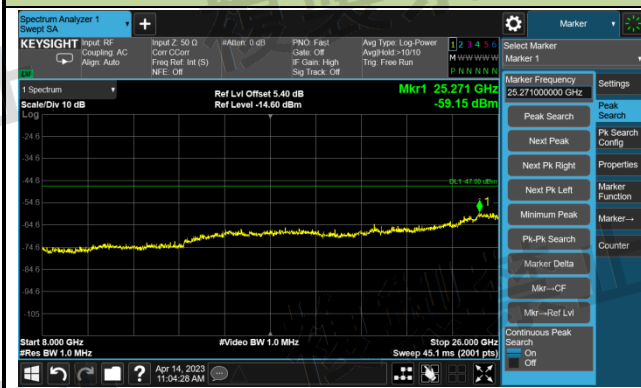
5670MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

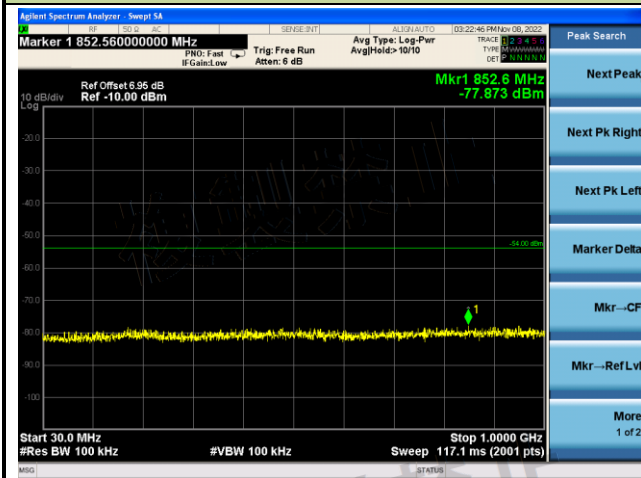
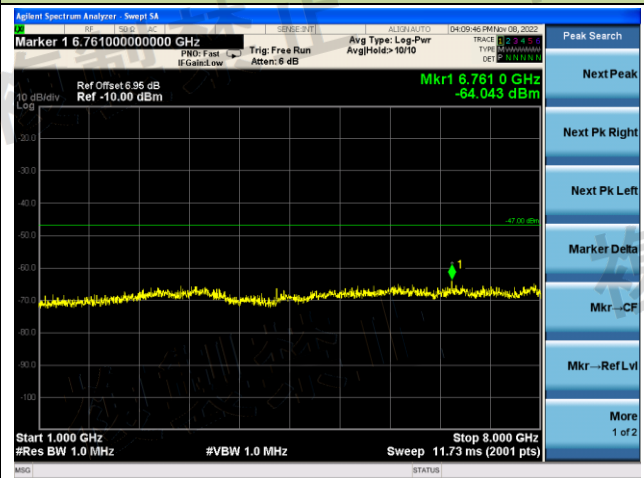


801.11ax-HE40 Receiver Spurious Emissions

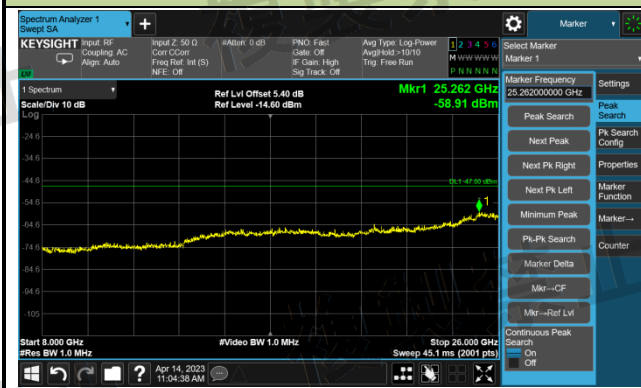
5710MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

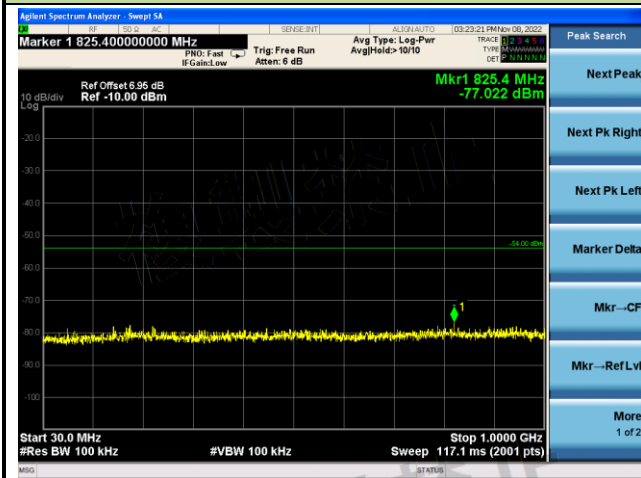
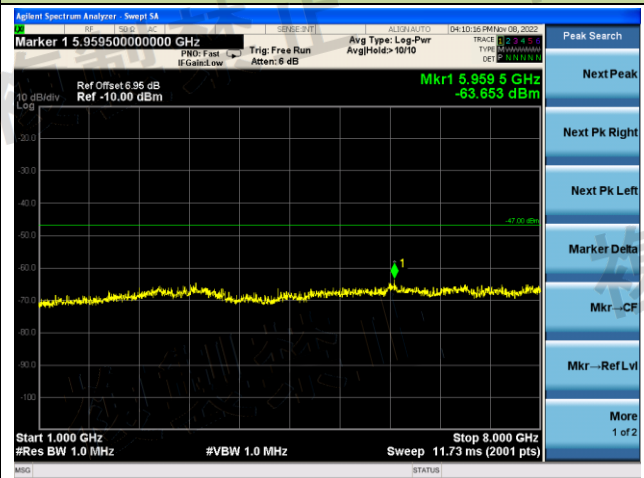


801.11ax-HE80 Receiver Spurious Emissions

5210MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

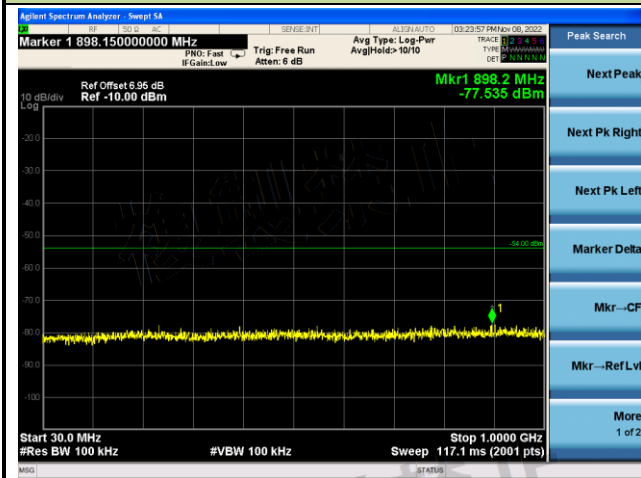
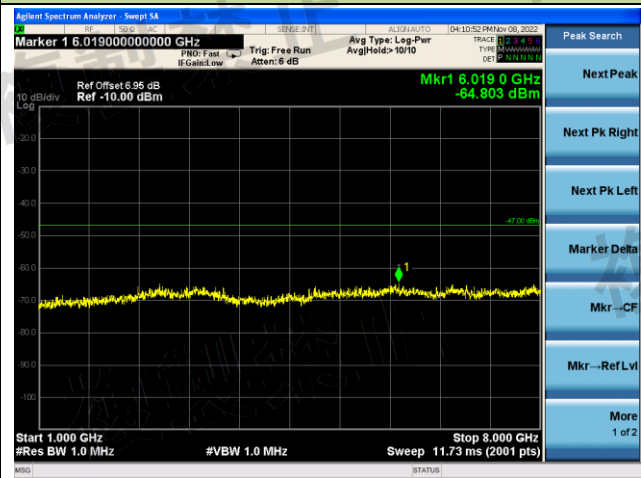


801.11ax-HE80 Receiver Spurious Emissions

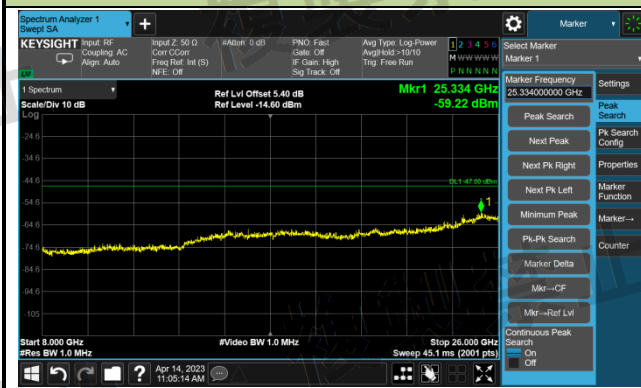
5290MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

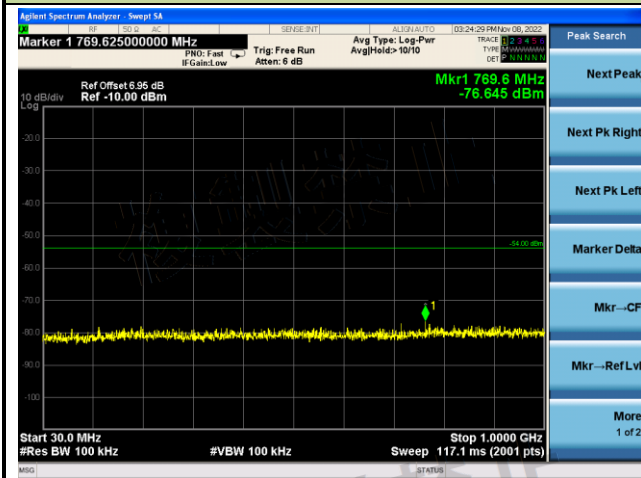
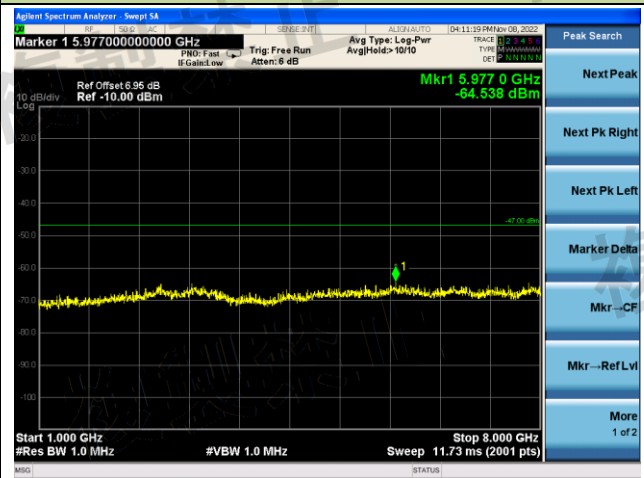


801.11ax-HE80 Receiver Spurious Emissions

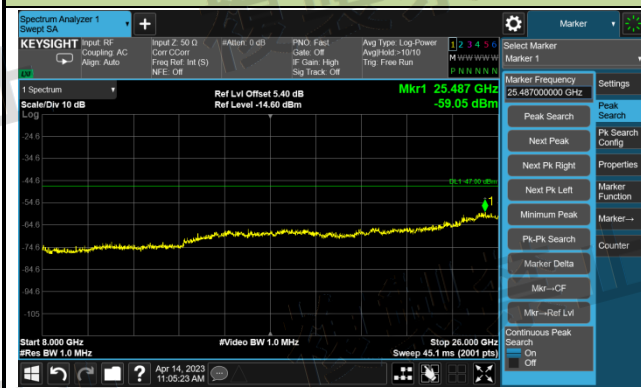
5530MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

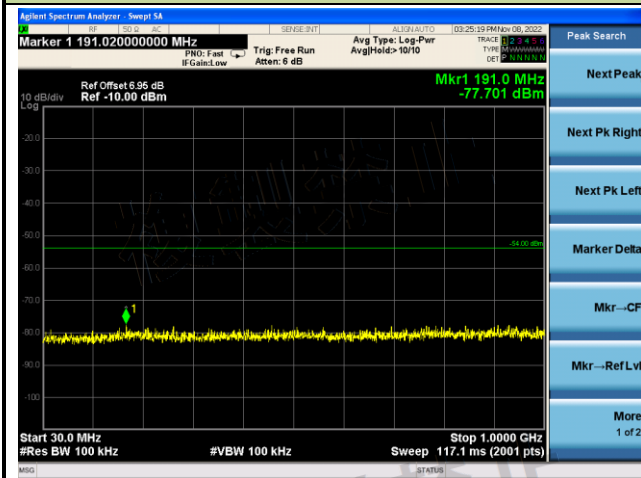
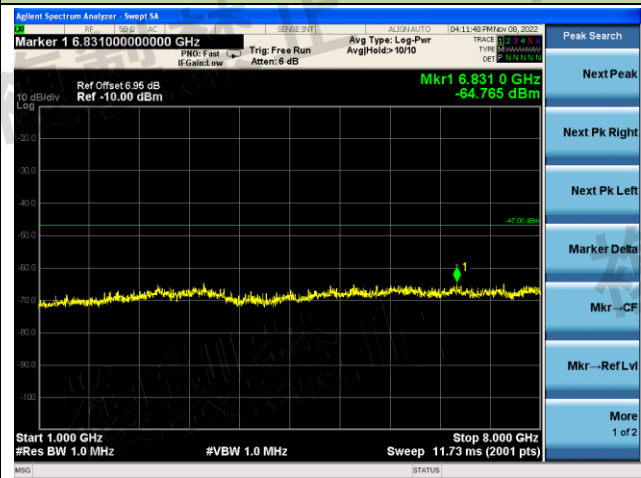


801.11ax-HE80 Receiver Spurious Emissions

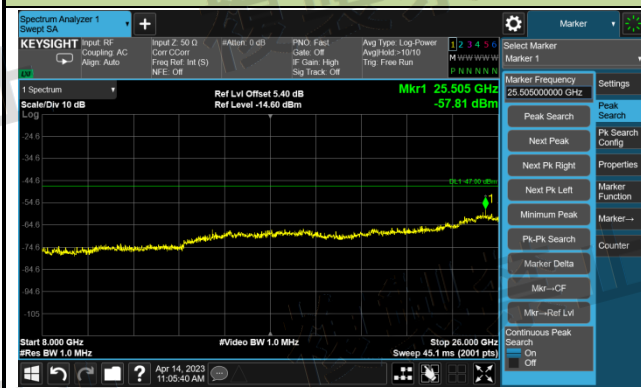
5610MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz

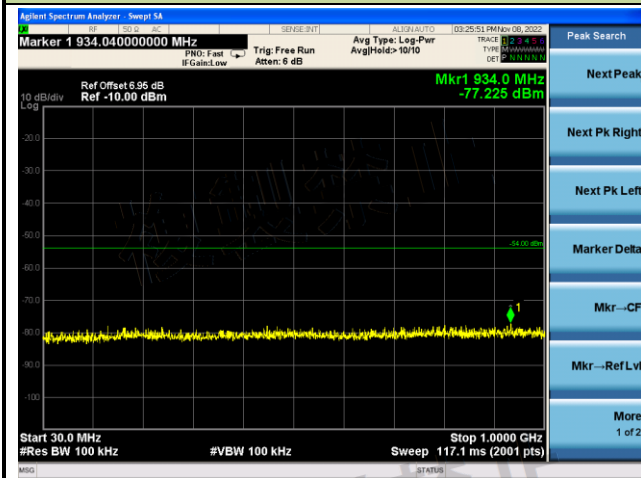
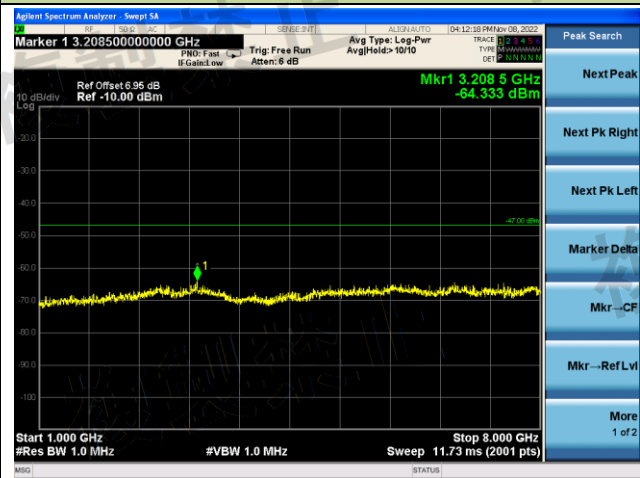


801.11ax-HE80 Receiver Spurious Emissions

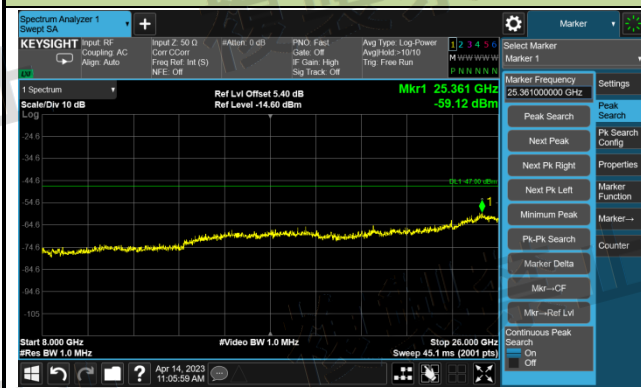
5690MHz

30 ~ 1000MHz

1000 ~ 8000MHz



8000 ~ 26000MHz



Test Site	WZ-SR5	Temperature	25 °C
Test Engineer	Lynn Yang	Humidity	60 %RH
Test Date	2023-04-11~2023-04-14	Filter Configuration	Filter 5#

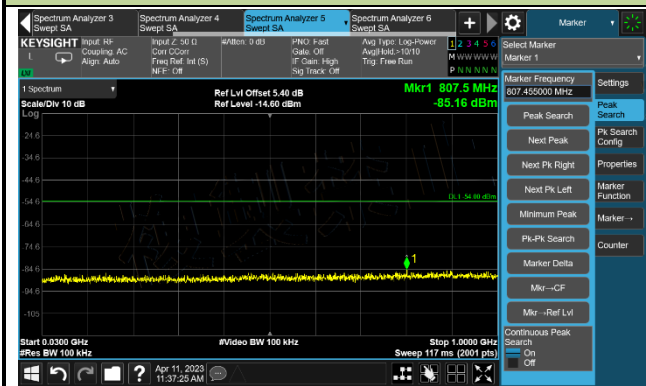
Test Mode	Frequency Range (MHz)	Max Reading Level (dBm)	Antenna Gain (dBi)	Worst EIRP Level (dBm/MHz)	Limit (dBm)	Result
802.11a						
5180MHz	30 ~ 1000	-85.16	4.70	-80.460	-54 (4nW)	Pass
	1000 ~ 26000	-58.14	4.70	-53.440	-47 (20nW)	Pass
5720MHz	30 ~ 1000	-85.08	4.70	-80.380	-54 (4nW)	Pass
	1000 ~ 26000	-59.01	4.70	-54.310	-47 (20nW)	Pass
802.11ax-HE20						
5180MHz	30 ~ 1000	-84.90	4.70	-80.200	-54 (4nW)	Pass
	1000 ~ 26000	-59.60	4.70	-54.900	-47 (20nW)	Pass
5720MHz	30 ~ 1000	-85.22	4.70	-80.520	-54 (4nW)	Pass
	1000 ~ 26000	-58.64	4.70	-53.940	-47 (20nW)	Pass
802.11ax-HE40						
5190MHz	30 ~ 1000	-84.63	4.70	-79.930	-54 (4nW)	Pass
	1000 ~ 26000	-58.82	4.70	-54.120	-47 (20nW)	Pass
5710MHz	30 ~ 1000	-85.01	4.70	-80.310	-54 (4nW)	Pass
	1000 ~ 26000	-58.49	4.70	-53.790	-47 (20nW)	Pass
802.11ax-HE80						
5210MHz	30 ~ 1000	-85.22	4.70	-80.520	-54 (4nW)	Pass
	1000 ~ 26000	-58.61	4.70	-53.910	-47 (20nW)	Pass
5690MHz	30 ~ 1000	-85.33	4.70	-80.630	-54 (4nW)	Pass
	1000 ~ 26000	-59.53	4.70	-54.830	-47 (20nW)	Pass

801.11a Receiver Spurious Emissions

5180MHz

30 ~ 1000MHz

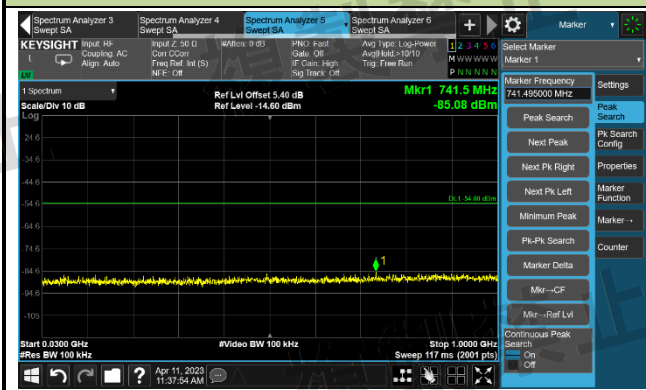
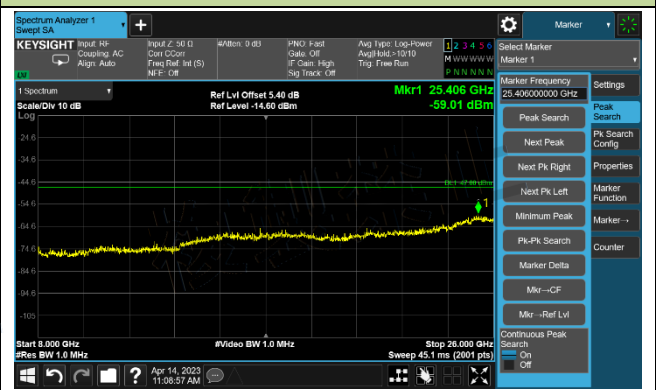
1000 ~ 26000MHz



5720MHz

30 ~ 1000MHz

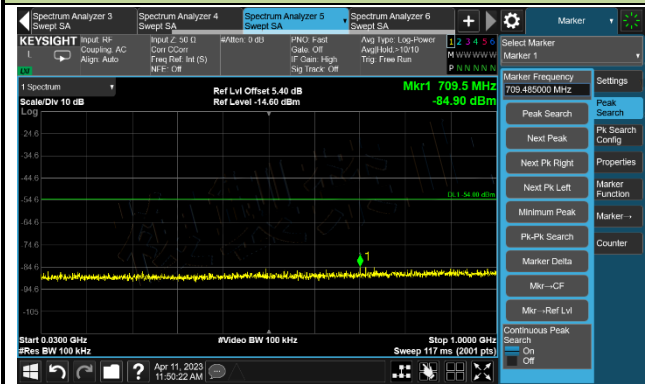
1000 ~ 26000MHz



801.11ax-HE20 Receiver Spurious Emissions

5180MHz

30 ~ 1000MHz



1000 ~ 26000MHz



5720MHz

30 ~ 1000MHz



1000 ~ 26000MHz

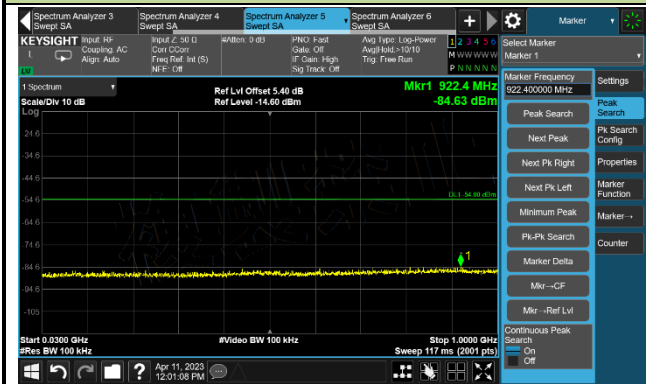


801.11ax-HE40 Receiver Spurious Emissions

5190MHz

30 ~ 1000MHz

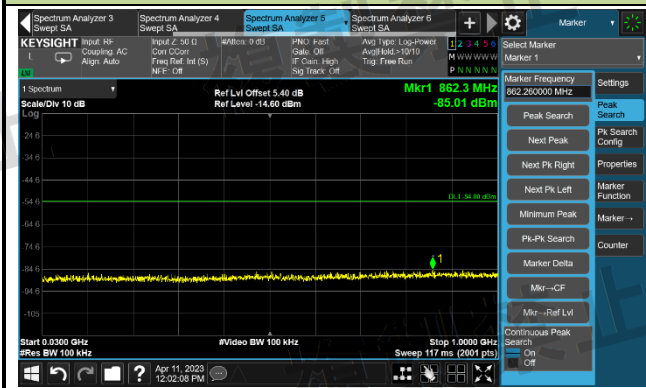
1000 ~ 26000MHz



5710MHz

30 ~ 1000MHz

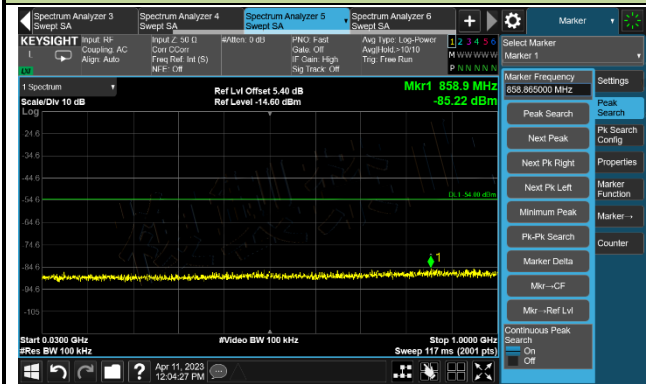
1000 ~ 26000MHz



801.11ax-HE80 Receiver Spurious Emissions

5210MHz

30 ~ 1000MHz

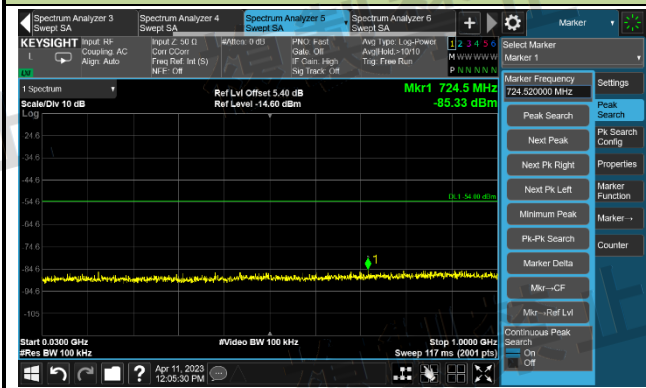


1000 ~ 26000MHz

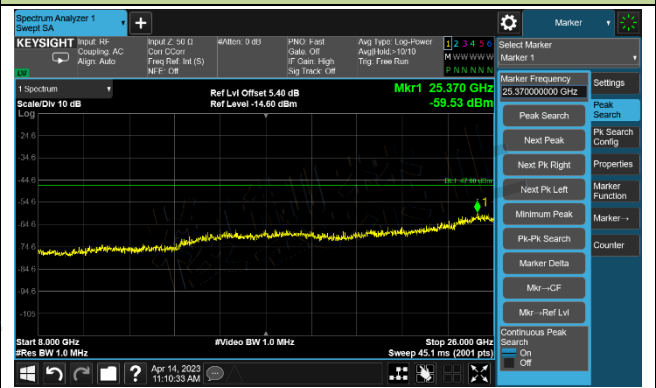


5690MHz

30 ~ 1000MHz



1000 ~ 26000MHz



5.8. Carrier Sensing Measurement

5.8.1. Test Limit

Stop transmission while carrier detecting.

Field intensity in the direction of the maximum gain of a receiving antenna: 100mV/m (It's a radiated testing detection threshold level).

Refer to ARIB STD-T71 V6_1, the conducted detection threshold level shows as below:

(6)式の電界強度 E を既定値の 100mV/m (100dB μ V/m) とし、 λ (m)を F (MHz) に変換し、 P を dBm 単位で表すと (7) 式を得る。

$$P[\text{dBm}] = 22.79 + G - 20\log F \quad \text{----- (7)}$$

P : 受信機のアンテナ端子に入力される受信電力 [dBm]

G : 受信アンテナの絶対利得 [dBi]

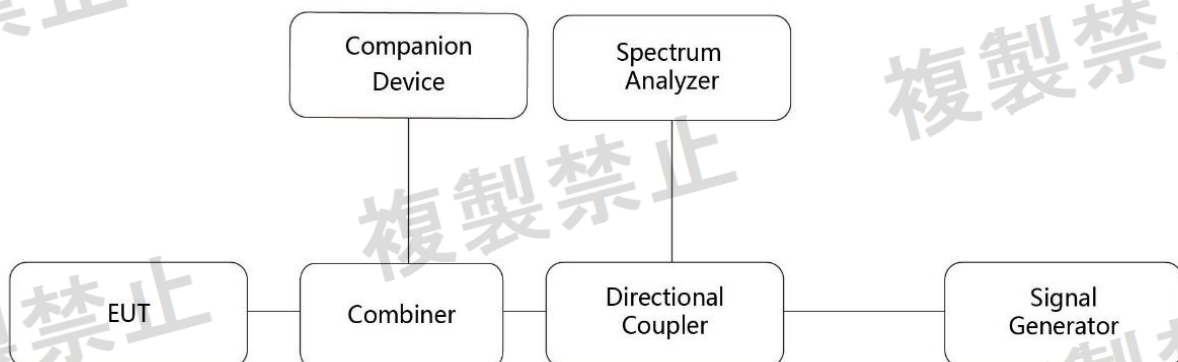
F : キャリア周波数 [MHz]

5.8.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

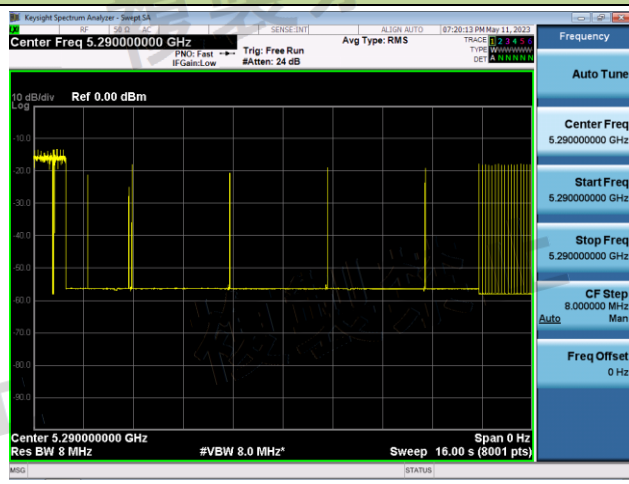
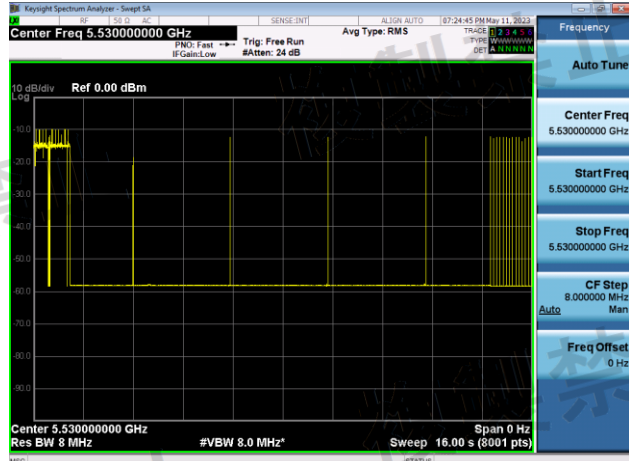
- Link EUT and Access Point to Directional Coupler input port.
- Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.
- A positive Peak Detector function in Spectrum Analyzer must be used.
- Set the Span to Zero.
- Press the Signal Generator on and it will output the Carrier Signal. When the Link breaks off, wait a minute and press the Signal Generator off. After a while, reset the Link and done the test.

5.8.3. Test Setup



5.8.4. Test Result

Test Site	WZ-SR5	Temperature	23.9 °C
Test Engineer	Liz Yuan	Humidity	47.2 %RH
Test Date	2023-05-11		

Carrier Sensing	
802.11ac-VHT80 - 5290MHz	
	<p>Signal Generator Power Level (dBm) =</p> <p>Path Loss + G - 20log (F)</p> <p>Path Loss: 22.79</p> <p>G: Antenna Gain</p> <p>F: operation frequency</p> <p>Power lever = 22.79 + (4.7) -20log (5290MHz)</p> <p>= -46.98dBm</p> <p>Test Result: Pass</p>
802.11ac-VHT80 - 5530MHz	
	<p>Signal Generator Power Level (dBm) =</p> <p>Path Loss + G - 20log (F)</p> <p>Path Loss: 22.79</p> <p>G: Antenna Gain</p> <p>F: operation frequency</p> <p>Power lever = 22.79 + (4.7) -20log (5530MHz)</p> <p>= -47.36dBm</p> <p>Test Result: Pass</p>

5.9. Transmission Burst Length Measurement

5.9.1. Test Limit

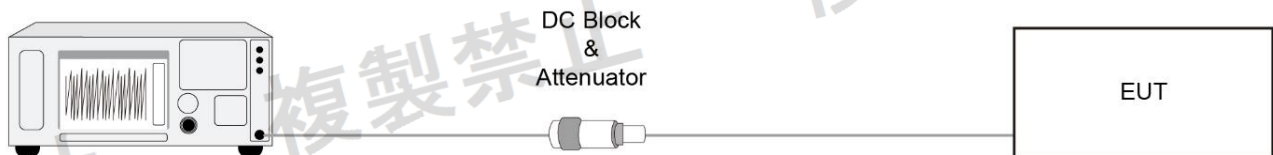
Transmission burst length must be 8ms or less.

5.9.2. Test Procedure

1. A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.
2. A positive peak detector function must be used.
3. The center frequency is set to the test frequency and the span is switched to zero.
4. The measurement instrument bandwidth must be set sufficiently with, and, the scan time set sufficiently slowly, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
5. "Single sweep" mode may be used to capture a packet over a single scan.

5.9.3. Test Setup

Spectrum Analyzer

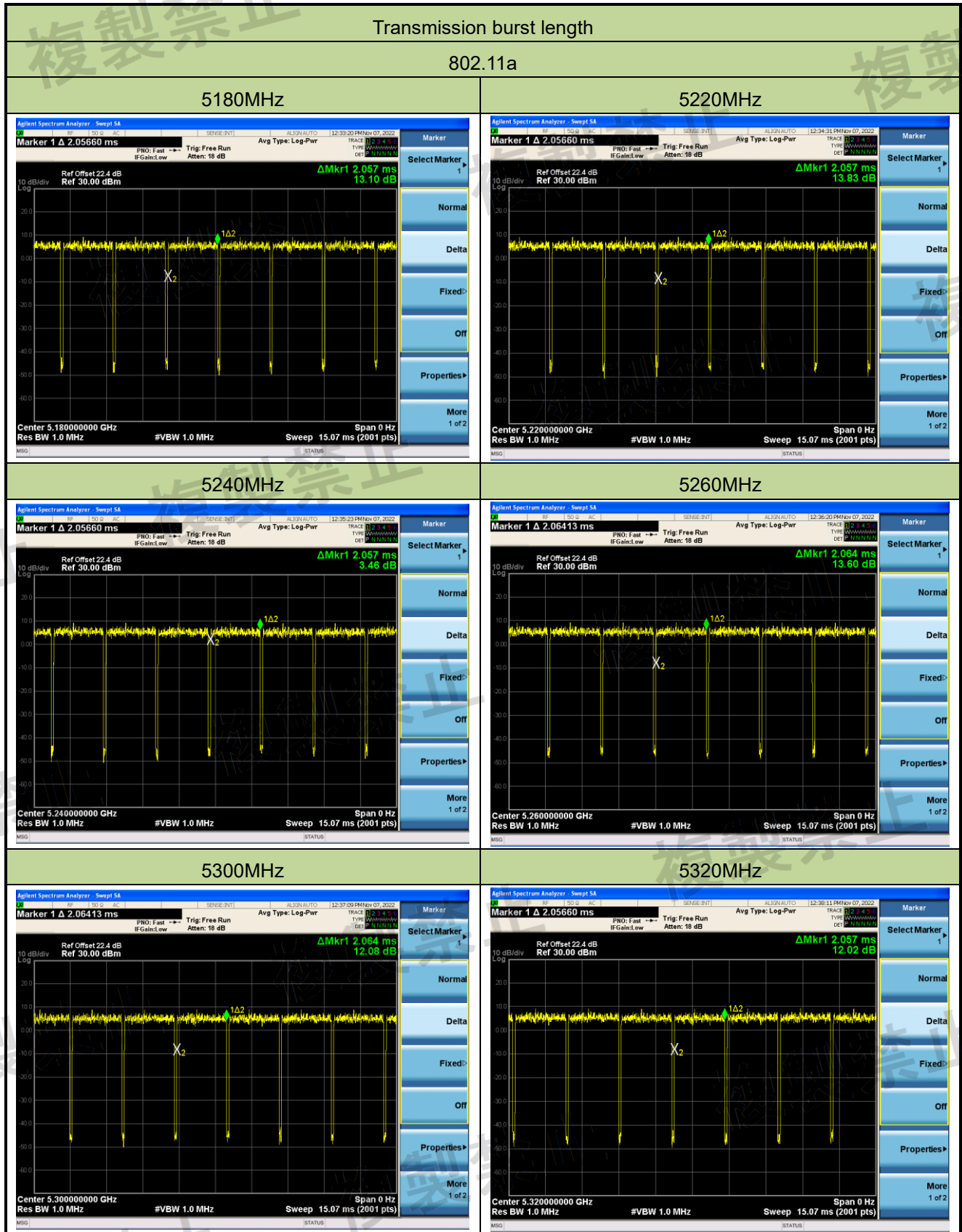


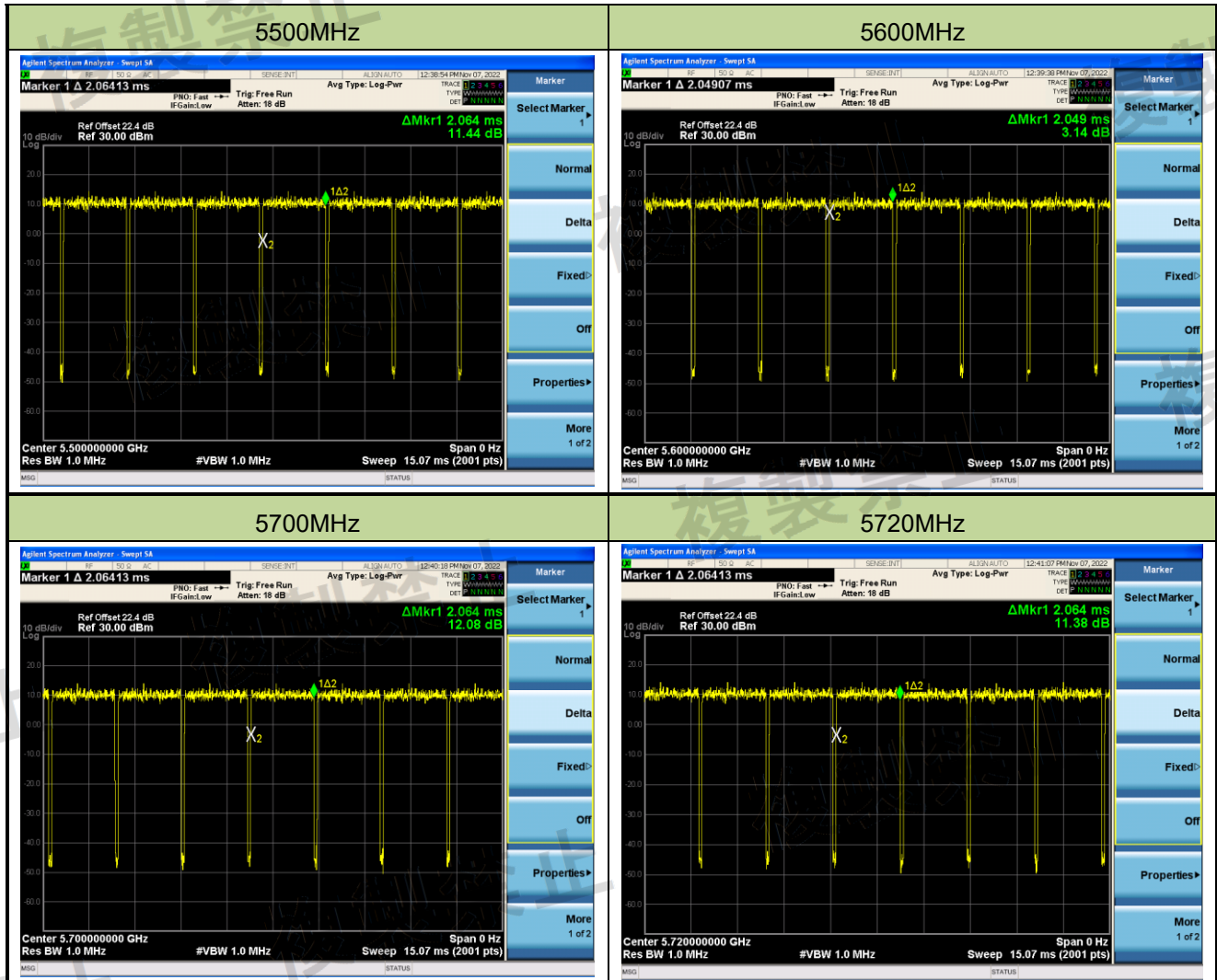
5.9.4. Test Result

Test Site	WZ-SR5	Temperature	21 °C
Test Engineer	Lynn Yang	Humidity	50.5 %RH
Test Date	2022-11-07		

Test Mode	Frequency (MHz)	Reading Value (ms)	Limit (ms)	Result
802.11a	5180	2.057	≤ 8	Pass
	5220	2.057	≤ 8	Pass
	5240	2.057	≤ 8	Pass
	5260	2.064	≤ 8	Pass
	5300	2.064	≤ 8	Pass
	5320	2.057	≤ 8	Pass
	5500	2.064	≤ 8	Pass
	5600	2.049	≤ 8	Pass
	5700	2.064	≤ 8	Pass
	5720	2.064	≤ 8	Pass
802.11ac-VHT20	5180	1.913	≤ 8	Pass
	5220	1.913	≤ 8	Pass
	5240	1.921	≤ 8	Pass
	5260	1.913	≤ 8	Pass
	5300	1.921	≤ 8	Pass
	5320	1.913	≤ 8	Pass
	5500	1.913	≤ 8	Pass
	5600	1.921	≤ 8	Pass
	5700	1.906	≤ 8	Pass
	5720	1.929	≤ 8	Pass
802.11ac-VHT40	5190	0.9462	≤ 8	Pass
	5230	0.9538	≤ 8	Pass
	5270	0.9500	≤ 8	Pass
	5310	0.9500	≤ 8	Pass
	5510	0.9462	≤ 8	Pass
	5590	0.9538	≤ 8	Pass
	5670	0.9462	≤ 8	Pass
	5710	0.9462	≤ 8	Pass

Test Mode	Frequency (MHz)	Reading Value (ms)	Limit (ms)	Result
802.11ac-VHT80	5210	0.4600	≤ 8	Pass
	5290	0.4600	≤ 8	Pass
	5530	0.4580	≤ 8	Pass
	5610	0.4620	≤ 8	Pass
	5690	0.4620	≤ 8	Pass
802.11ax-HE20	5180	1.476	≤ 8	Pass
	5220	1.470	≤ 8	Pass
	5240	1.482	≤ 8	Pass
	5260	1.476	≤ 8	Pass
	5300	1.488	≤ 8	Pass
	5320	1.482	≤ 8	Pass
	5500	1.482	≤ 8	Pass
	5600	1.476	≤ 8	Pass
	5700	1.470	≤ 8	Pass
	5720	1.482	≤ 8	Pass
802.11ax-HE40	5190	0.7703	≤ 8	Pass
	5230	0.7809	≤ 8	Pass
	5270	0.7773	≤ 8	Pass
	5310	0.7773	≤ 8	Pass
	5510	0.7703	≤ 8	Pass
	5590	0.7809	≤ 8	Pass
	5670	0.7738	≤ 8	Pass
	5710	0.7773	≤ 8	Pass
802.11ax-HE80	5210	0.4125	≤ 8	Pass
	5290	0.4125	≤ 8	Pass
	5530	0.4109	≤ 8	Pass
	5610	0.4125	≤ 8	Pass
	5690	0.4109	≤ 8	Pass

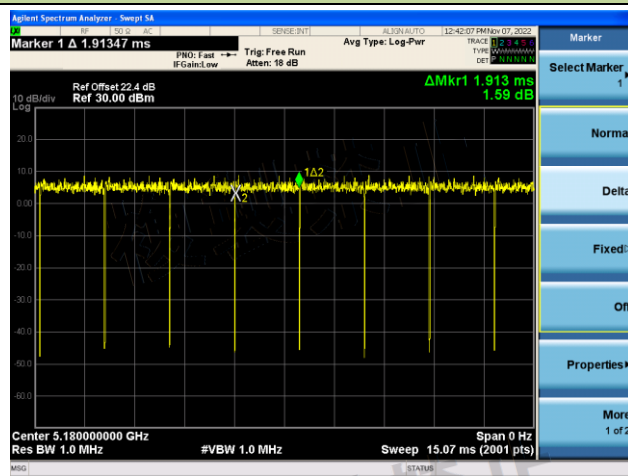




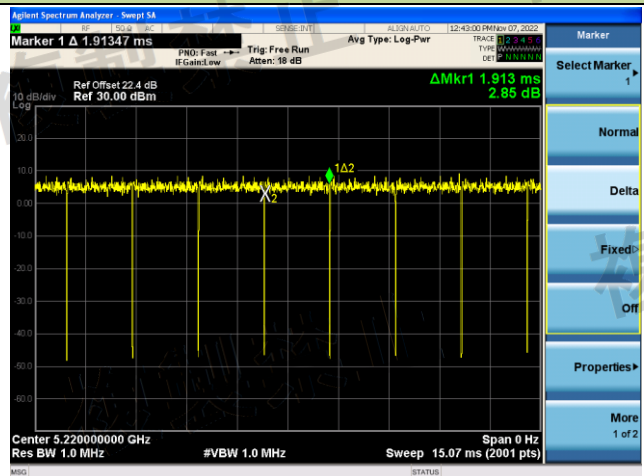
Transmission burst length

802.11ac-VHT20

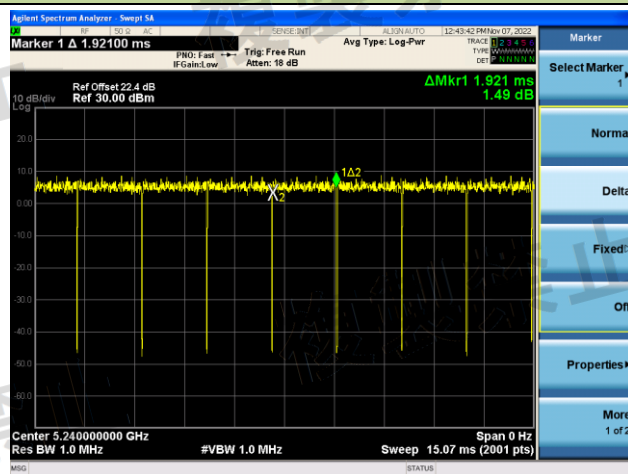
5180MHz



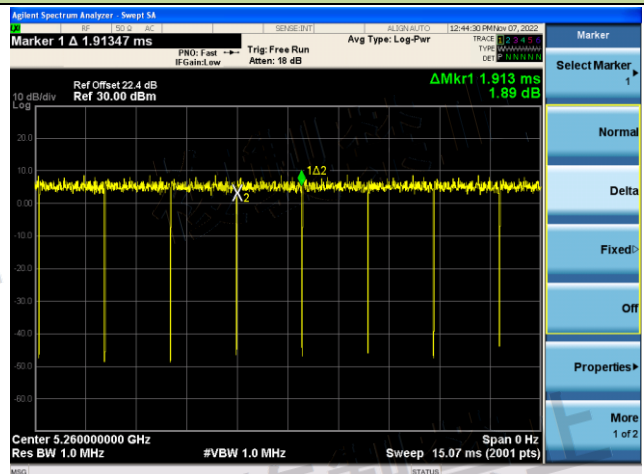
5220MHz



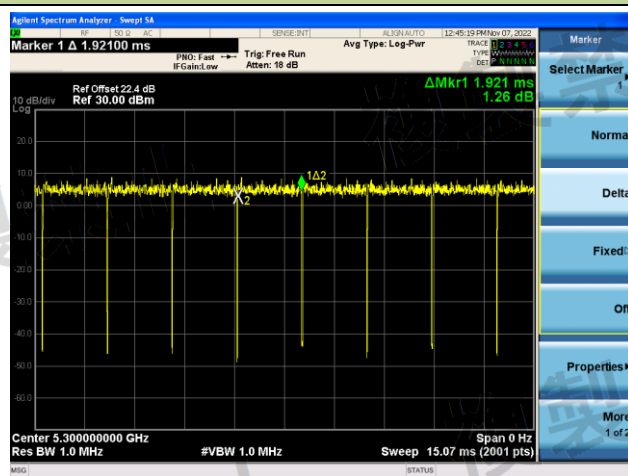
5240MHz



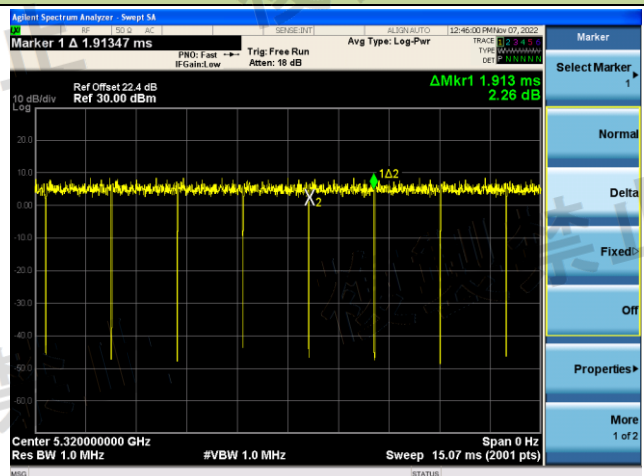
5260MHz

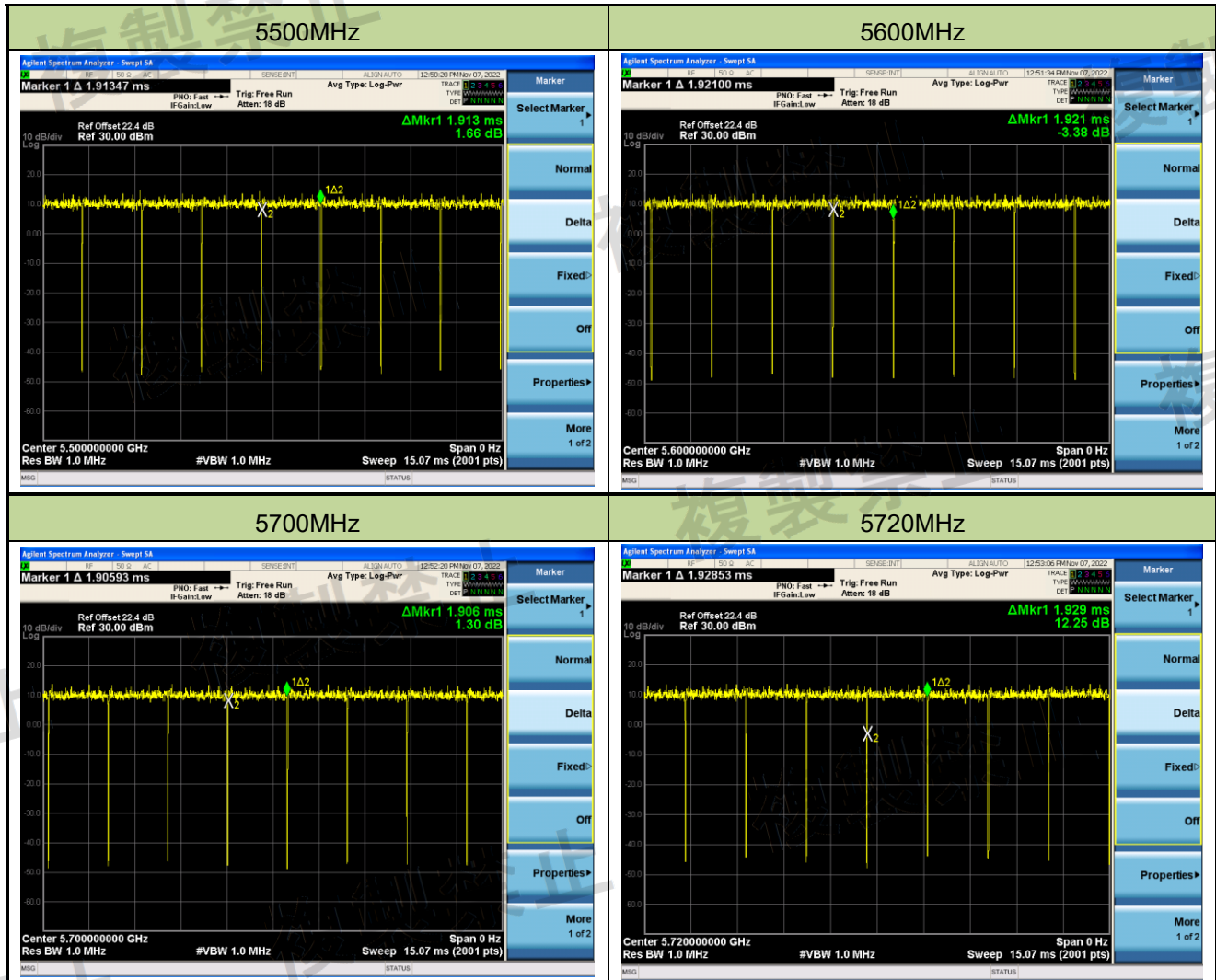


5300MHz



5320MHz

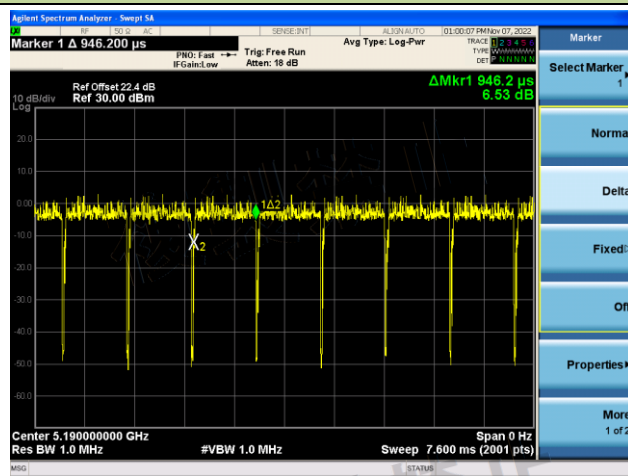




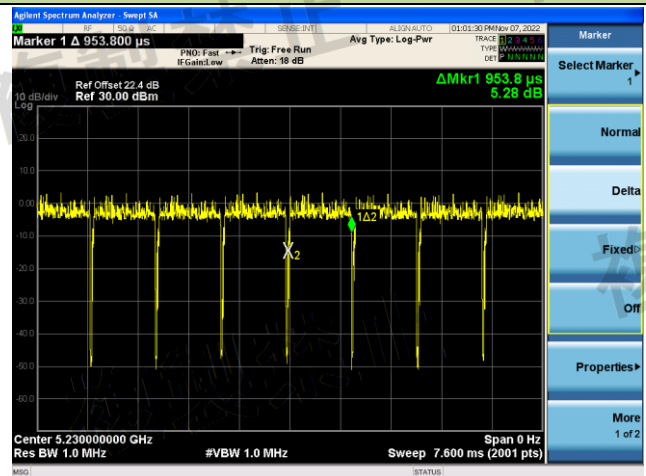
Transmission burst length

802.11ac-VHT40

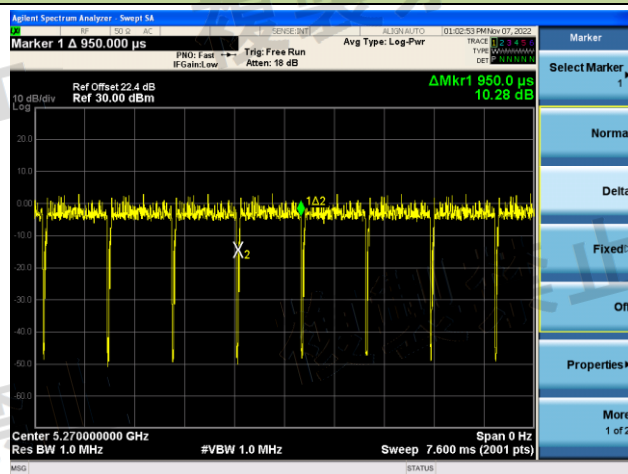
5190MHz



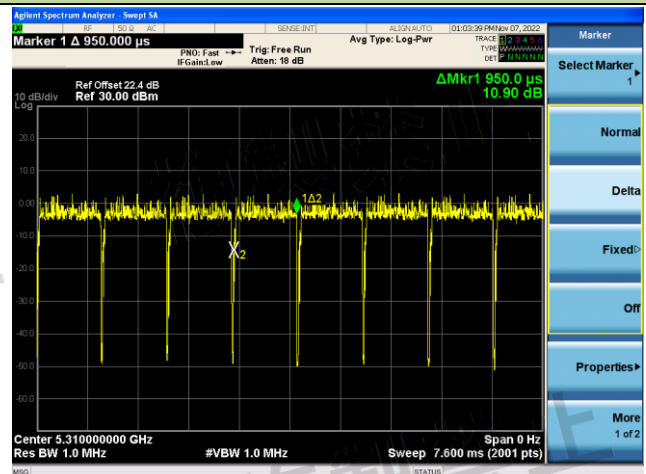
5230MHz



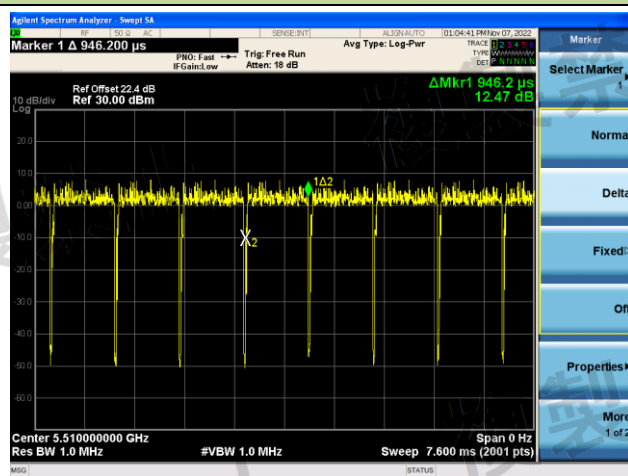
5270MHz



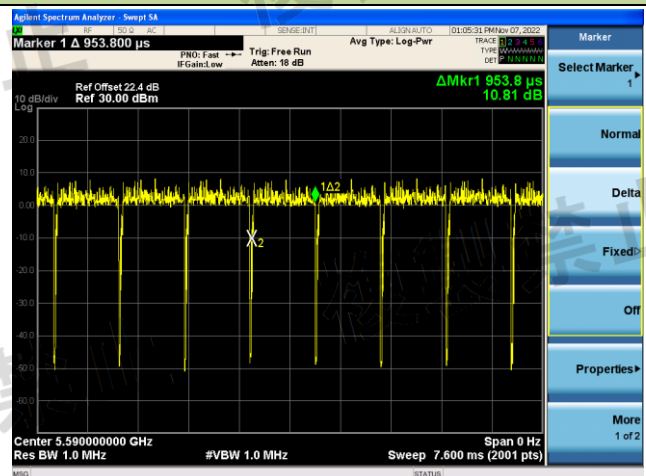
5310MHz

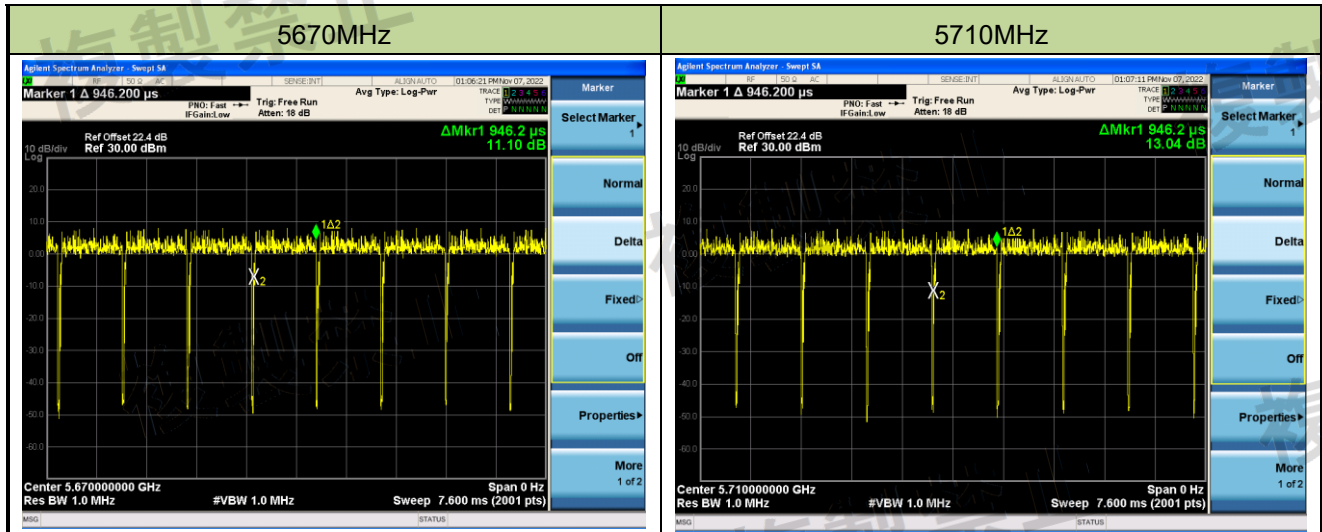


5510MHz



5590MHz

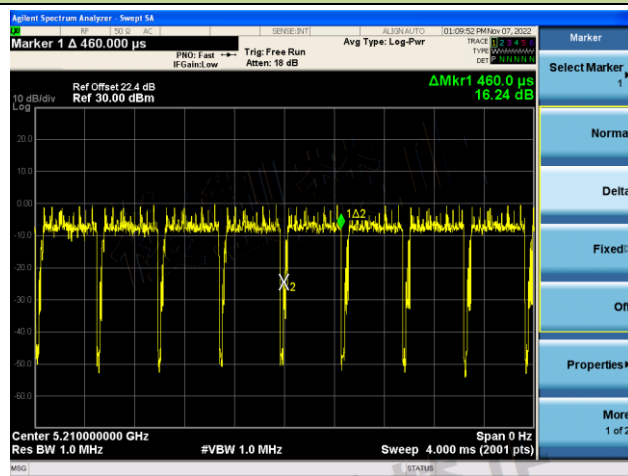




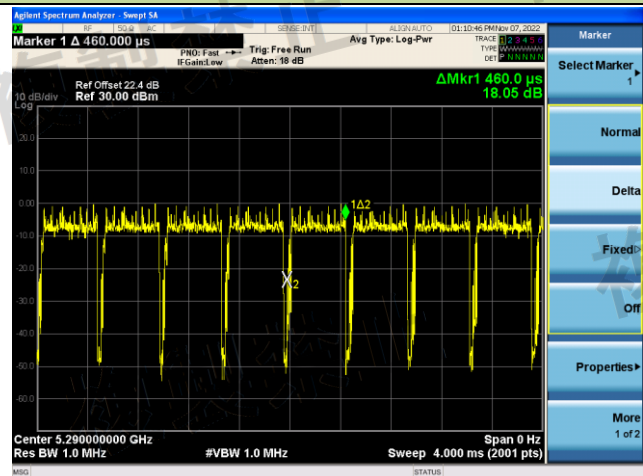
Transmission burst length

802.11ac-VHT80

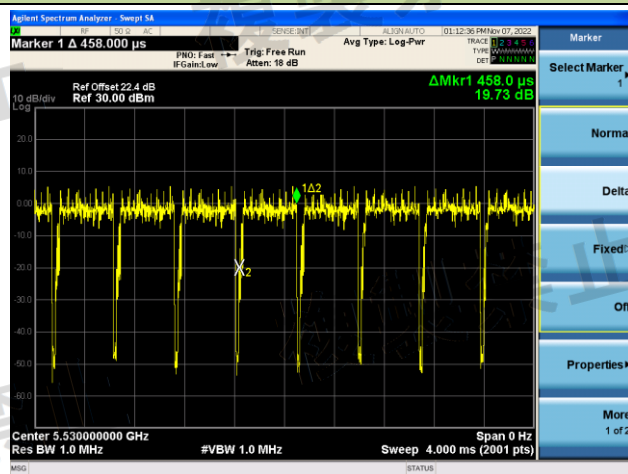
5210MHz



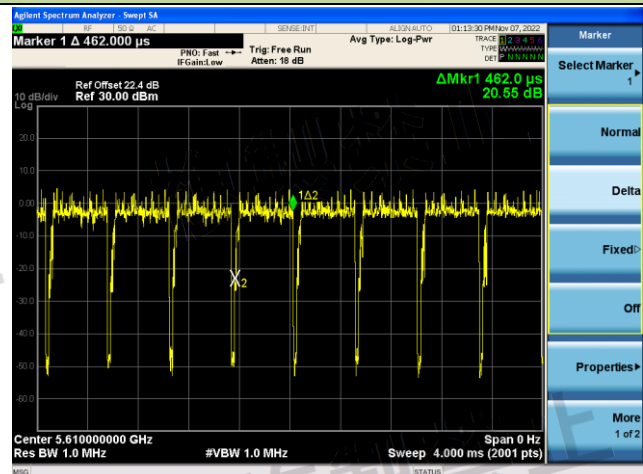
5290MHz



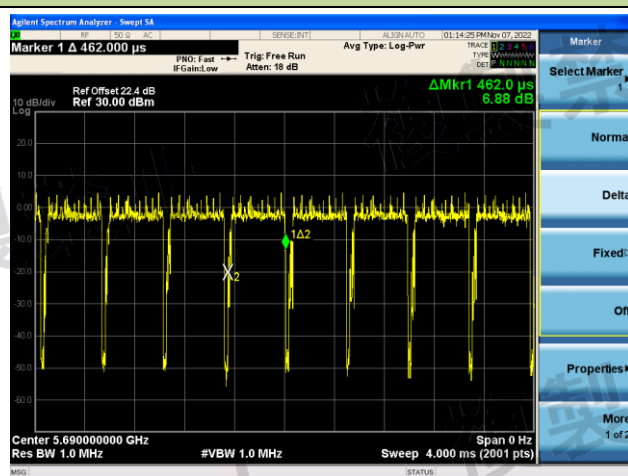
5530MHz



5610MHz



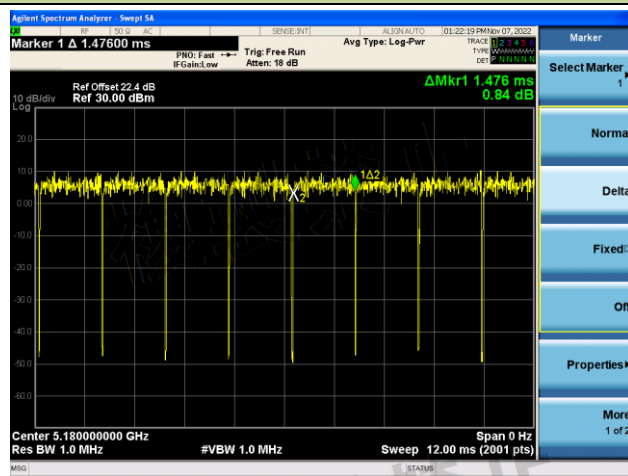
5690MHz



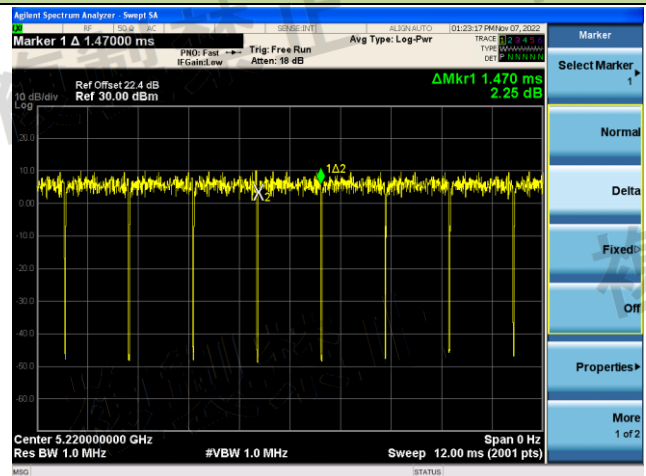
Transmission burst length

802.11ax-HE20

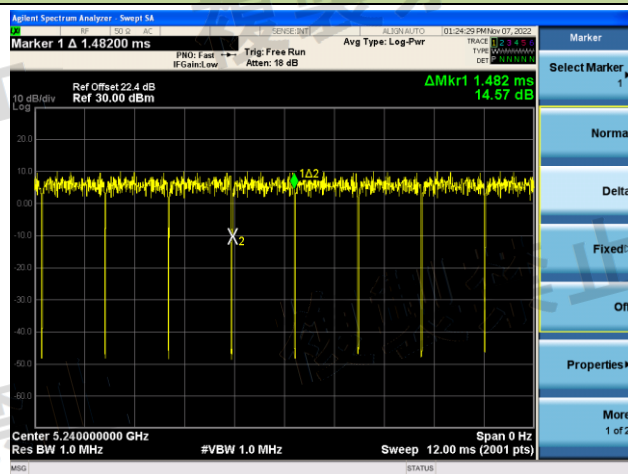
5180MHz



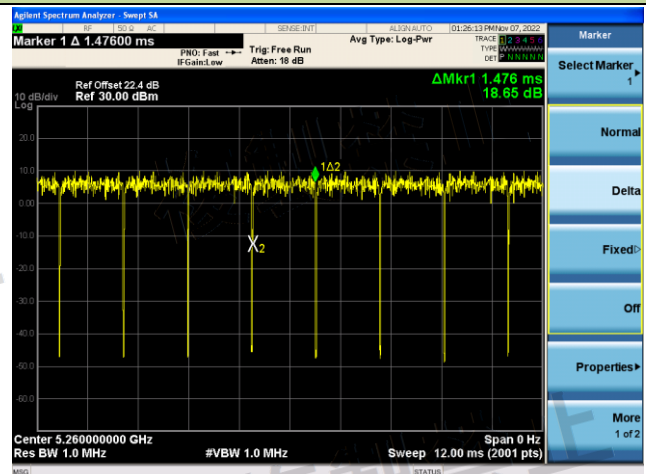
5220MHz



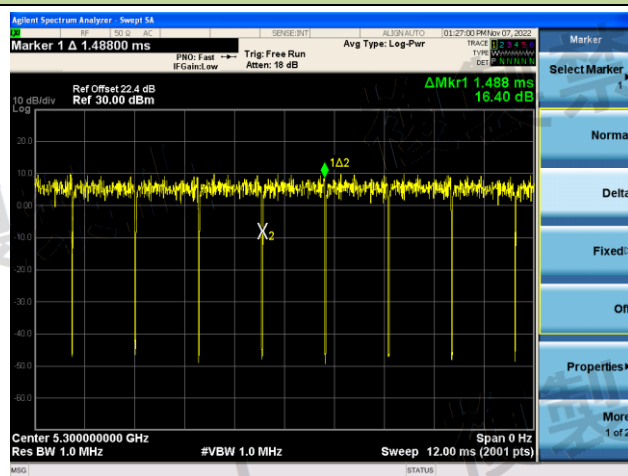
5240MHz



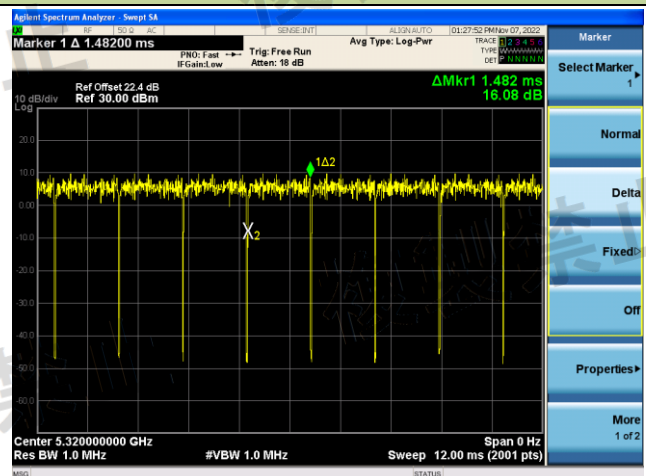
5260MHz

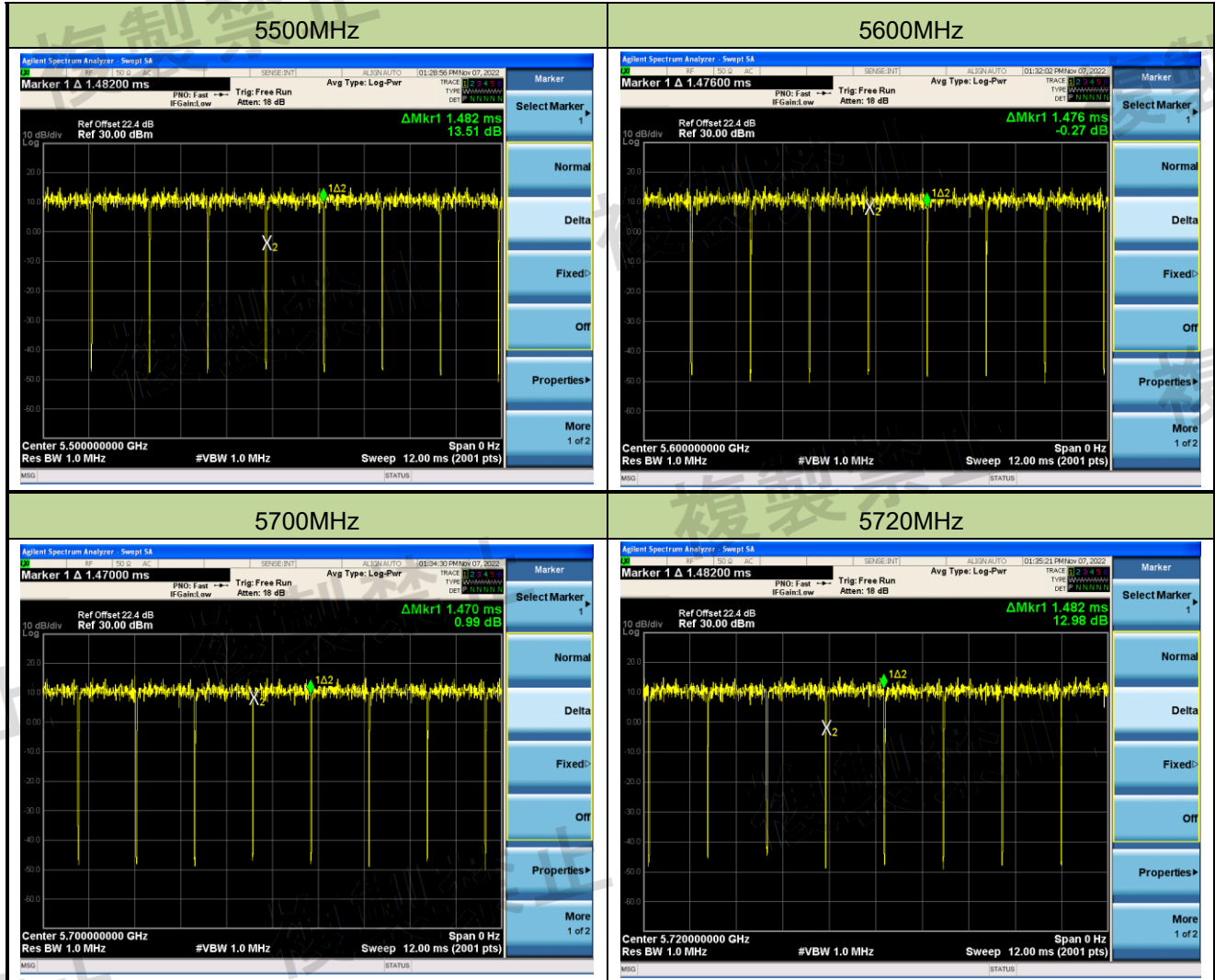


5300MHz



5320MHz

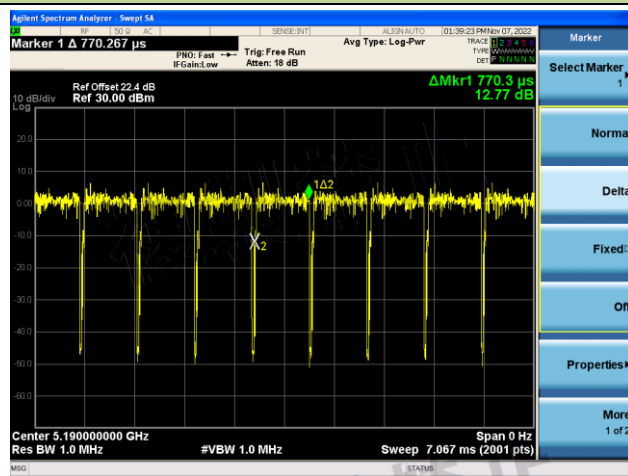




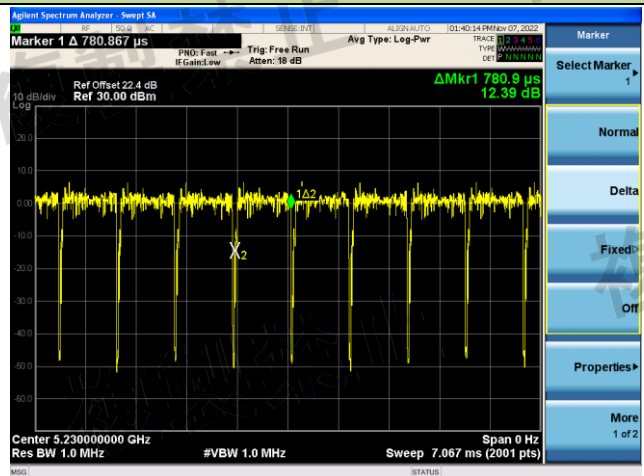
Transmission burst length

802.11ax-HE40

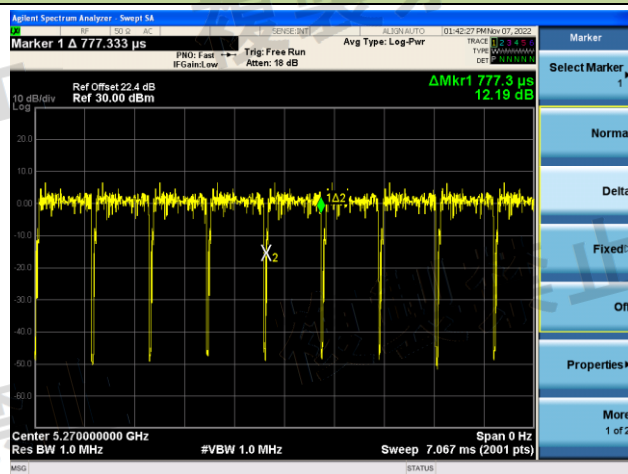
5190MHz



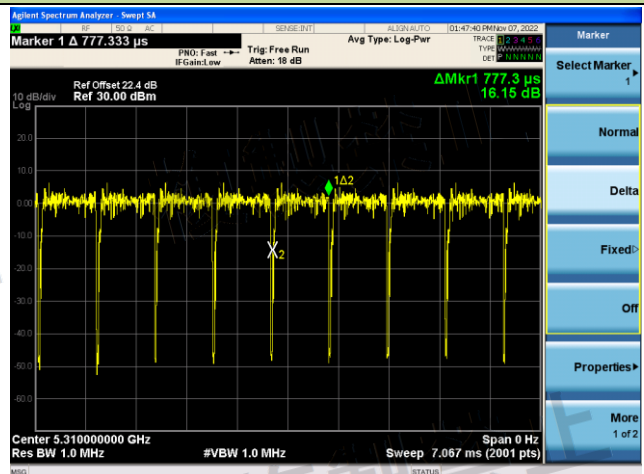
5230MHz



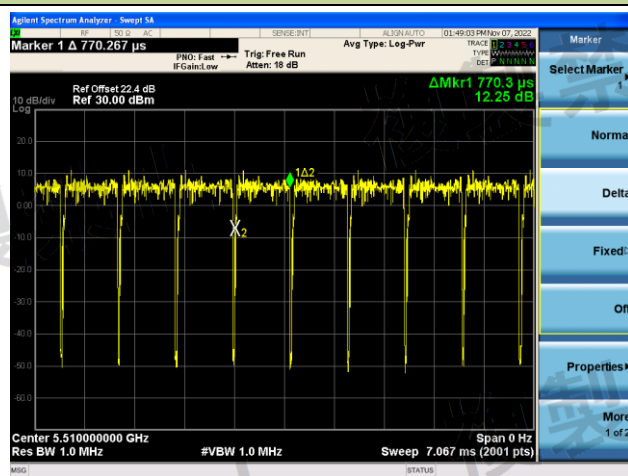
5270MHz



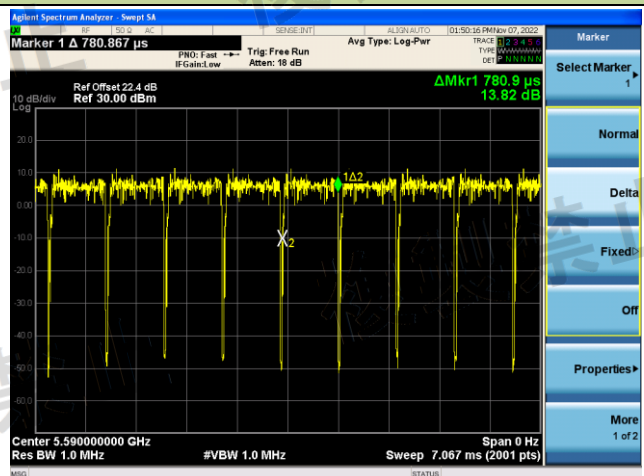
5310MHz

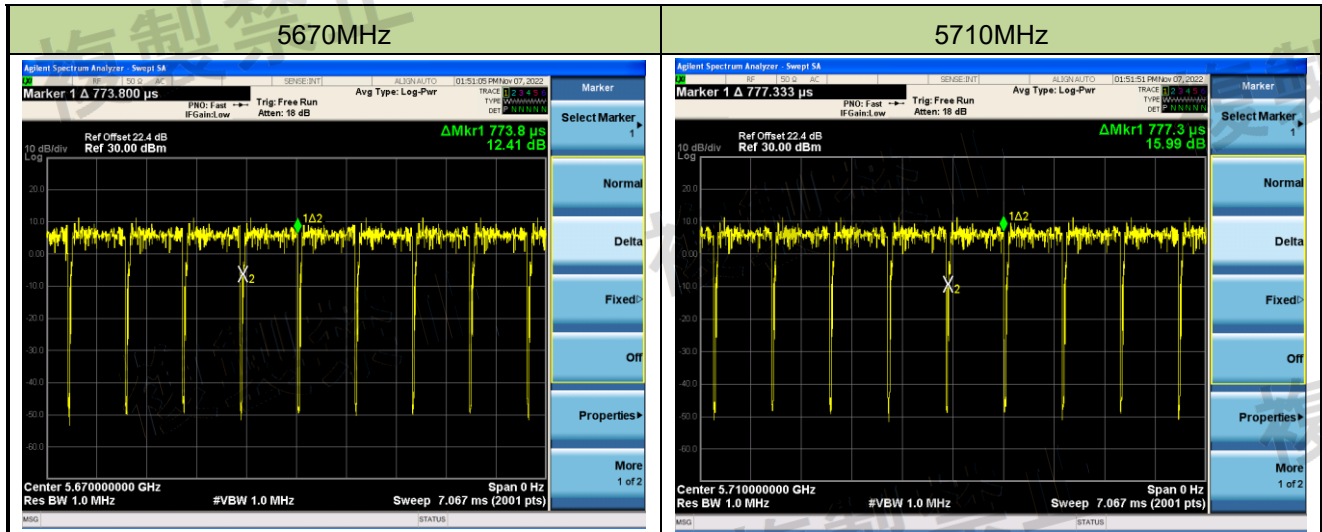


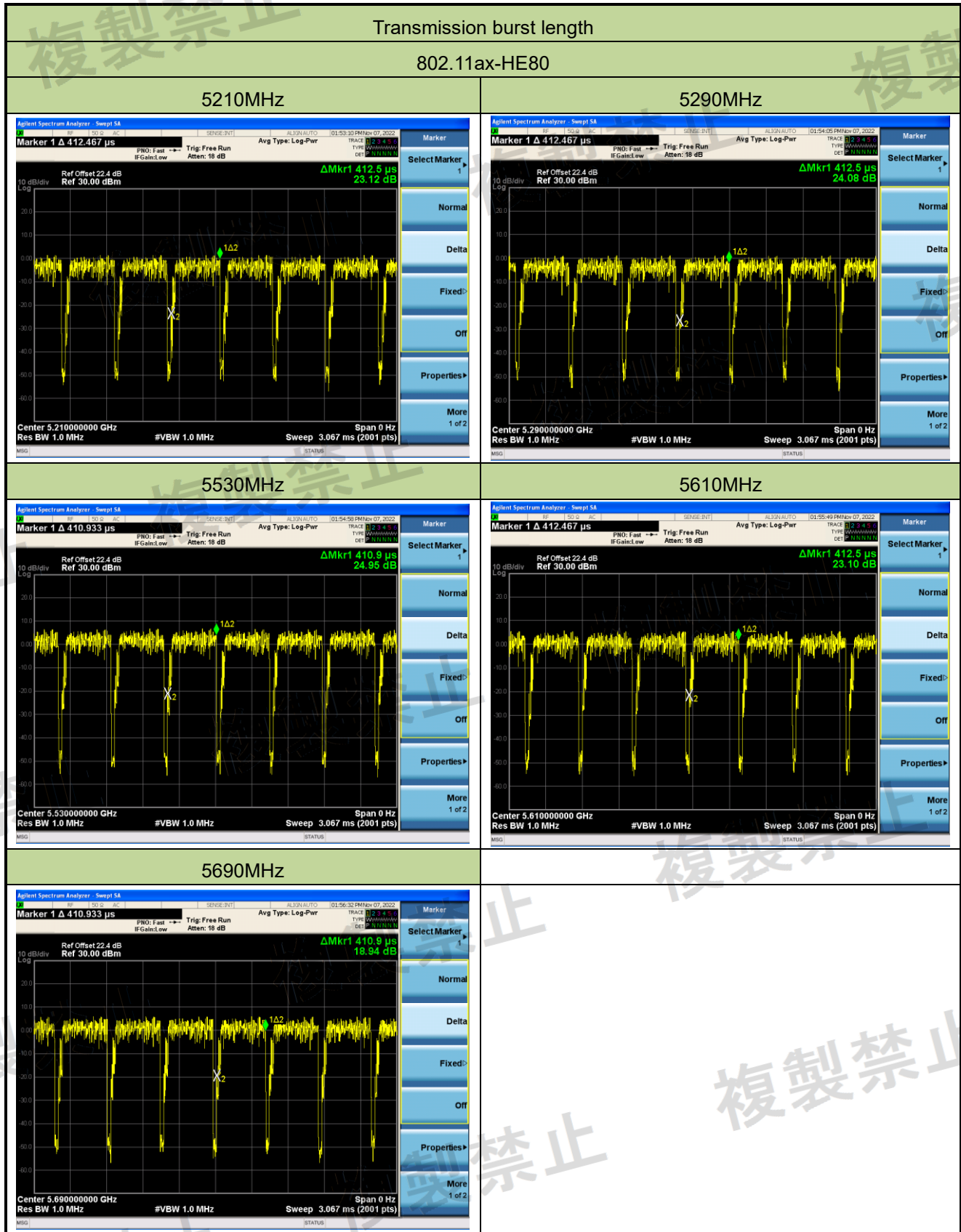
5510MHz



5590MHz







5.10. Interference Protection Function Measurement

5.10.1. Test Limit

Chiefly, the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

5.10.2. Test Procedure

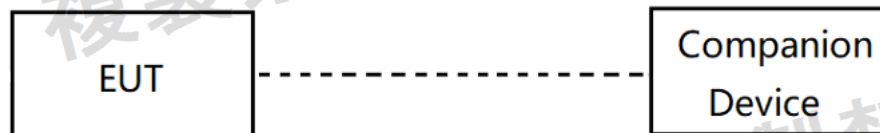
(1) In the case that the EUT has the function of automatically transmitting the identification codes:

- a. Transmit the predetermined identification codes from the EUT.
- b. Check the transmitted identification codes with the demodulator.

(2) In the case of receiving the identification codes:

- a. Transmit the predetermined identification codes from the counterpart.
- b. Check if the communication is normal.
- c. Transmit the signals other than predetermined ID codes from the counterpart.
- d. Check if the EUT stops the transmission, or if it displays that the identification codes are different from the predetermined ones.

5.10.3. Test Setup



5.10.4. Test Result

Test Site	WZ-SR5	Temperature	23.9 °C
Test Engineer	Liz Yuan	Humidity	47.2 %RH
Test Date	2023-05-11		

The Result of Interference Protection Function

☒	Good
☐	NG

Note:

1, NG means not good.

2, When the EUT work on normal operation, we can read this EUT address from EUT's Setting interface.

Appendix A - EUT Photograph

Refer to “2209RSU069-JE” file.

Appendix B - Test Setup Photograph

Refer to “2209RSU069-JT” file.