



Radio Test Report

Report No.:STS2601157W03

Issued for

GODOX Photo Equipment Co.,Ltd.

4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Product Name: Master Headset, Remote Headset

Brand Name: Godox

Test Model Name: SkyTalk-M

Series Model(s): SkyTalk-R

Test Standard: Article 2 Paragraph 1 of Item 21-2, annex 81

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TEST RESULT CERTIFICATION

Applicant's Name : GODOX Photo Equipment Co.,Ltd.
Address : 4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Manufacturer's Name : GODOX Photo Equipment Co.,Ltd.
Address : 4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Product Description

Product Name : Master Headset, Remote Headset
Trade Mark : 
Test Model Name : SkyTalk-M
Series Model : SkyTalk-R

Test Standards : Article 2 Paragraph 1 of Item 21-2, annex 81

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Testing

Date of receipt of test item : 14 Jan. 2026
Date (s) of performance of tests : 14 Jan. 2026~02 Apr. 2026
Date of Issue : 02 Apr. 2026
Test Result : **Pass**

Testing Engineer :



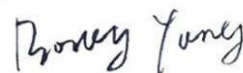
(Lennon Hou)

Technical Manager :



(Skylar Li)

Authorized Signatory :



(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	02 Apr. 2026	STS2601157W03	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: Article 2 Paragraph 1 of Item 21-2, annex 81

Rule Section	Description of Test	Result
3.2(1)	Frequency tolerance	PASS
3.2(4)	Tolerance for antenna power	PASS
3.2(9)	Antenna power	PASS
3.2(2)	Occupied Bandwidth (99%)	PASS
3.2(3)	Permissible values for unwanted emission intensity	PASS
3.3(1)	Receiver Radiated Emissions	PASS
3.2(6)	Carrier off time leakage power	PASS
3.2(10)	Absolute gain of the antenna	PASS
3.1(9)	Carrier Sense Capability	PASS
3.2(7)	Transmission rate of modulation signal	PASS
3.1(11)	Interference avoidance	PASS
3.1	Construction Protection Confirmation	PASS
3.2(5)	Modulation method	PASS
3.2(8)	Tolerance for transmission rate of modulation signal	PASS

NOTE:

(1) Test Reference Article 2 Paragraph 1 of Item 21-2, annex 81.

(2) "N/A" denotes test is not applicable in this Test Report.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	Frequency tolerance	$\pm 0.03\text{ppm}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Equipment	Master Headset, Remote Headset	
Brand Name	Godox	
Model Name	SkyTalk-M	
Series Model(s)	SkyTalk-R	
Model Difference	Only different in model name, appearance Colors and software. Users can upgrade and switch to the host or slave by themselves	
Product Description	The EUT is a Master Headset, Remote Headset	
	Operation Frequency:	1895.616~1902.528MHz
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1,152 kbit/s
	Type of Emission	F1D, F1E
	Number of Channel:	5CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain:	Ant. 0: -0.68dBi, Ant. 1: -0.2dBi
Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User Manual.		
Channel List	Please refer to the Note 2.	
Power Rating	Input: DC5V 600mA Li-ion Battery:3.8V 760mAh 2.888Wh	
Battery	Model: ST-BAT Brand: YJ Power Rated Voltage: 3.8V Capacity: 760mAh 2.888Wh	
Hardware version	20230721H54	
Software version	V1.0	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2. Operation Frequency of channel			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
04	1895.616	01	1900.8
03	1897.344	00	1902.528
02	1899.072		



Test Frequency:

Test Frequency:	
Channel	Frequency(MHz)
04	1895.616
02	1899.072
00	1902.528

3.

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Shenzhen Shanxu PCB Technology Co., Ltd.	112-NC014-003	Ant 1: PCB	N/A	Ant. 1: -0.20	Antenna
2	Tengxiang Technology, Inc	AN1905-04B05RS-B	Ant 0: Rod	N/A	Ant. 0: -0.68	Antenna

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Max Data Rate
Mode 1	TX 4CH	1,152 kbit/s
Mode 2	TX 2CH	1,152 kbit/s
Mode 3	TX 0CH	1,152 kbit/s



2.3 TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and going to be fixed on the firmware of the final end product.

RF Function	Mode	Modulation	Ant 0 Gain(dBi)	Ant 1 Gain(dBi)	Ant0 Type	Ant1 Type
DECT	FP	PP32Z	-0.68	-0.2	Rod	PCB
	PP	PP32Z	-0.68	-0.2	Rod	PCB

2.4 TEST CONDITIONS

The WIFI module was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input DC Power(V)	3.8	4.18	3.42
RF Chip Input DC Power(V)	3.286	3.306	3.266
Voltage Variation (%)	/	0.61	-0.61

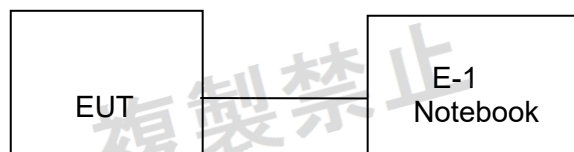
Note: Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

When the input supply voltage to the EUT from the external power source is varied by +/- 10%, the output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%, and the DC power fluctuation at the power input PIN of the RF chip is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode 1:





2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	DELL	Inspiron 3501	N/A
C-1	USB cable	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

**2.7 EQUIPMENTS LIST FOR ALL TEST ITEMS**

RF Connected Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.10.09	2026.10.08
MXG Vector Signal Generator	Keysight	N5182B	MY57301448	2025.09.26	2026.09.25
RF Test Platform For DECT	RTX	RTX 2012 HS	1138-6122	2025.02.23	2026.02.24
				2026.02.03	2027.02.02
Signal Analyzer	Keysight	N9020A	MY52440124	2025.02.23	2026.02.24
				2026.02.04	2027.02.03
Temperature & Humidity test chamber	Safety test	AG80L	171200018	2025.02.23	2026.02.24
				2026.02.04	2027.02.03
Attenuator	HP	8494B	DC-18G	2025.02.23	2026.02.24
				2026.02.24	2027.02.23
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Agilent	E3642A	MY40002025	N/A	N/A
Test SW	RTX2012	RTX20xx v0.9.61 A			

Note: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
- b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
- c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

Test Equipment Calibration:

The test equipment is effective use and calibration certification institution, GRGT, the address is 163 tianhe district in huangpu road xiping cloud road .Guangzhou, China

- d): Calibration conducted by using other equipment that listed above from a) to c).

3. CONSTRUCTION PROTECTION CONFIRMATION

Our products apply for Japanese radio frequency (rf) certification. We use the following methods to prevent unauthorized access and modification of RF and modulation parts. This wireless module uses a shielding cover to prevent users from disassembling and modifying it. For more information, see the following photo.





4. FREQUENCY ERROR

4.1 LIMIT

Item	Limits(ppm)
Frequency Error	Transmission Carrier Limits: 10×10^{-6} (10ppm).

4.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

4.3 TEST SETUP





4.4 EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function.

4.5 TEST RESULT

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor) Voltage		

FP
Ant0

Test Conditions		Channel (MHz)	Reading (MHz)	Tolerance (ppm)	Limit (ppm)
Nom (V)	2.4	1895.616	1895.613	-1.58	±10
		1899.072	1899.069	-1.58	±10
		1902.528	1902.528	0.00	±10

Ant1

Test Conditions		Channel (MHz)	Reading (MHz)	Tolerance (ppm)	Limit (ppm)
Nom (V)	2.4	1895.616	1895.616	0.00	±10
		1899.072	1899.069	-1.58	±10
		1902.528	1902.525	-1.58	±10

PP
Ant0

Test Conditions		Channel (MHz)	Reading (MHz)	Tolerance (ppm)	Limit (ppm)
Nom (V)	2.4	1895.616	1895.613	-1.58	±10
		1899.072	1899.069	-1.58	±10
		1902.528	1902.525	-1.58	±10

Ant1

Test Conditions		Channel (MHz)	Reading (MHz)	Tolerance (ppm)	Limit (ppm)
Nom (V)	2.4	1895.616	1895.613	-1.58	±10
		1899.072	1899.069	-1.58	±10
		1902.528	1902.525	-1.58	±10

5. ANTENNA POWER AND TOLERANCE FOR ANTENNA POWER

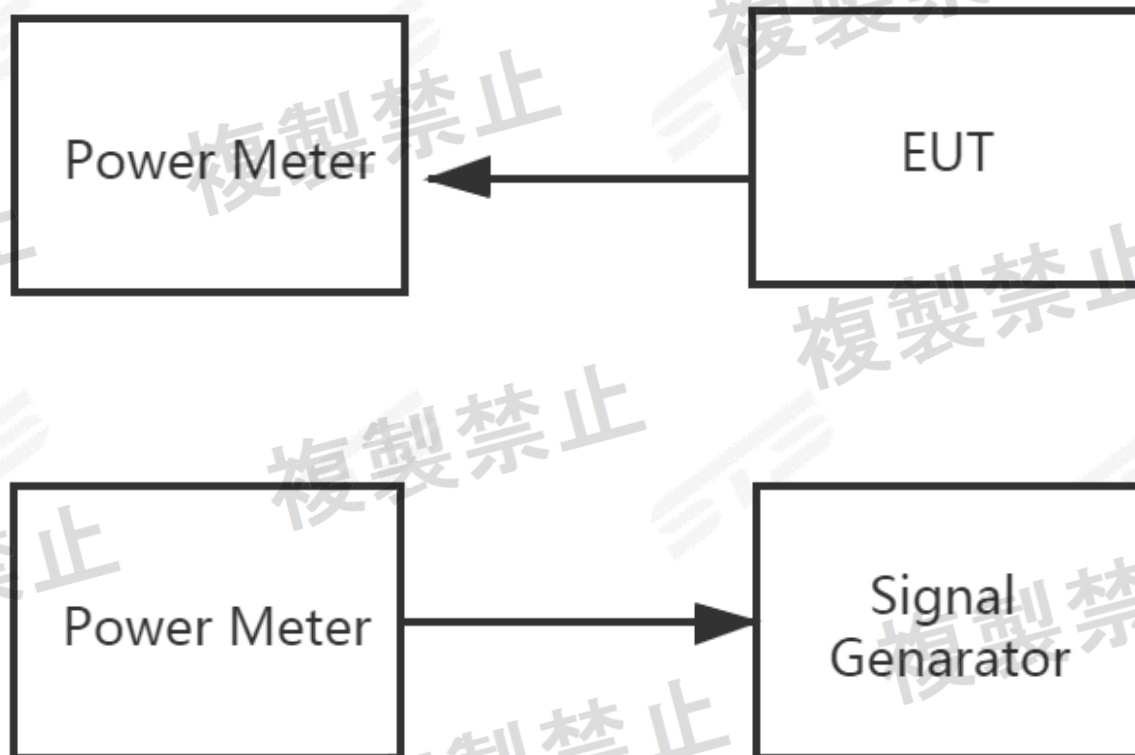
5.1 LIMIT

Item	Limits
Antenna Power	$\leq 240\text{mW}$
Power Error	+20%, -50% (Base on manufacturer declare power)

5.2 TEST PROCEDURES

1. EUT turn to test frequency channel and keep continuous transmitting.
2. Reading the output power from the Power meter as P_{EUT} .
3. Turn the Signal generator to frequency channel the same as the EUT.
4. Turn the level of Signal generator, scan with the power meter until the power equal to P_{EUT} , the level of Signal generator recorded as "P".
5. The antenna power of EUT is "P".
6. EIRP power="P"+antenna gain.

5.3 TEST SETUP



5.4 TEST DEVIATION

There is no deviation with the original standard.

5.5 TEST RESULT

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor) Voltage		

FP
ANT 0

Test Conditions		Channel (MHz)	Peak output Power(dBm)	Average Burst Power(dBm)	Average Burst Power(mW)	Declared Antenna Power (mW)	Tolerance %
Nom(V)	2.4	Low	22.568	8.270	6.714	6	11.90
		Middle	22.522	8.220	6.637	6	10.62
		High	22.498	8.270	6.714	6	11.90
Limit : (1) Antenna Power Limit (240mW) (2) Tolerance +20%, -50% (Base on manufacturer declare Antenna Power)							

ANT 1

Test Conditions		Channel (MHz)	Peak output Power(dBm)	Average Burst Power(dBm)	Average Burst Power(mW)	Declared Antenna Power (mW)	Tolerance %
Nom(V)	2.4	Low	20.093	7.710	5.902	6	-1.63
		Middle	20.04	7.650	5.821	6	-2.98
		High	20.014	7.410	5.508	6	-8.20
Limit : (1) Antenna Power Limit (240mW) (2) Tolerance +20%, -50% (Base on manufacturer declare Antenna Power)							

PP
ANT0

Test Conditions		Channel (MHz)	Peak output Power(dBm)	Average Burst Power(dBm)	Average Burst Power(mW)	Declared Antenna Power (mW)	Tolerance %
Nom(V)	2.4	Low	22.288	7.940	6.223	6	3.72
		Middle	22.522	7.880	6.138	6	2.29
		High	22.368	7.820	6.053	6	0.89
Limit : (1) Antenna Power Limit (240mW) (2) Tolerance +20%, -50% (Base on manufacturer declare Antenna Power)							

ANT 1

Test Conditions		Channel (MHz)	Peak output Power(dBm)	Average Burst Power(dBm)	Average Burst Power(mW)	Declared Antenna Power (mW)	Tolerance %
Nom(V)	2.4	Low	22.288	7.800	6.026	6	0.43
		Middle	22.299	7.740	5.943	6	-0.95
		High	22.224	7.680	5.861	6	-2.31
Limit : (1) Antenna Power Limit (240mW) (2) Tolerance +20%, -50% (Base on manufacturer declare Antenna Power)							



6. OCCUPIED BANDWIDTH (99%)

6.1 LIMIT

Item	Limits
Occupied Band Width:	<1728 KHz

6.2 TEST PROCEDURES

- Setting of SA is following as: RB: 10KHz / VB: 10KHz / SPAN: 3MHz/Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 1.728MHz.

6.3 TEST SETUP



6.4 TEST DEVIATION

There is no deviation with the original standard.

6.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

**6.6 TEST RESULT**

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor)Voltage		

FP
ANT 0

Test Conditions		Channel (MHz)	99% Occupied Bandwidth(MHz)	Limit (MHz)
Nom(V)	2.4	1895.616	1.2261	≤1.728 (For FSK)
		1899.072	1.2323	
		1902.528	1.2296	

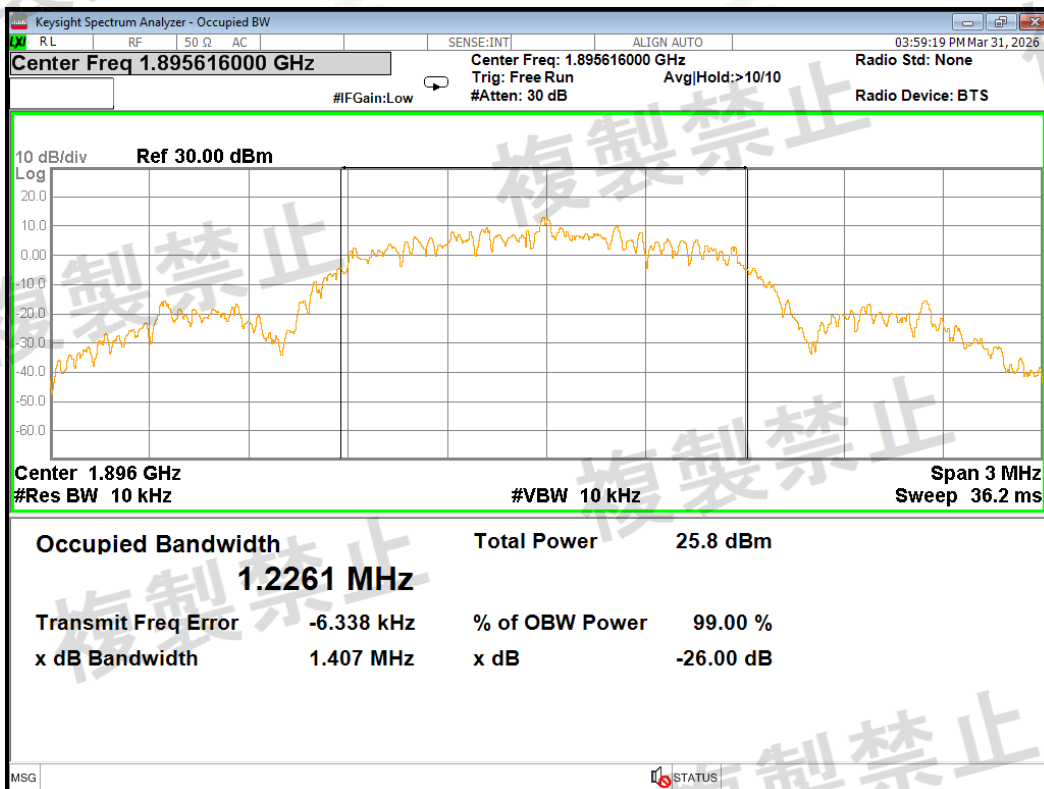
ANT 1

Test Conditions		Channel (MHz)	99% Occupied Bandwidth(MHz)	Limit (MHz)
Nom(V)	2.4	1895.616	1.2253	≤1.728 (For FSK)
		1899.072	1.2273	
		1902.528	1.2242	

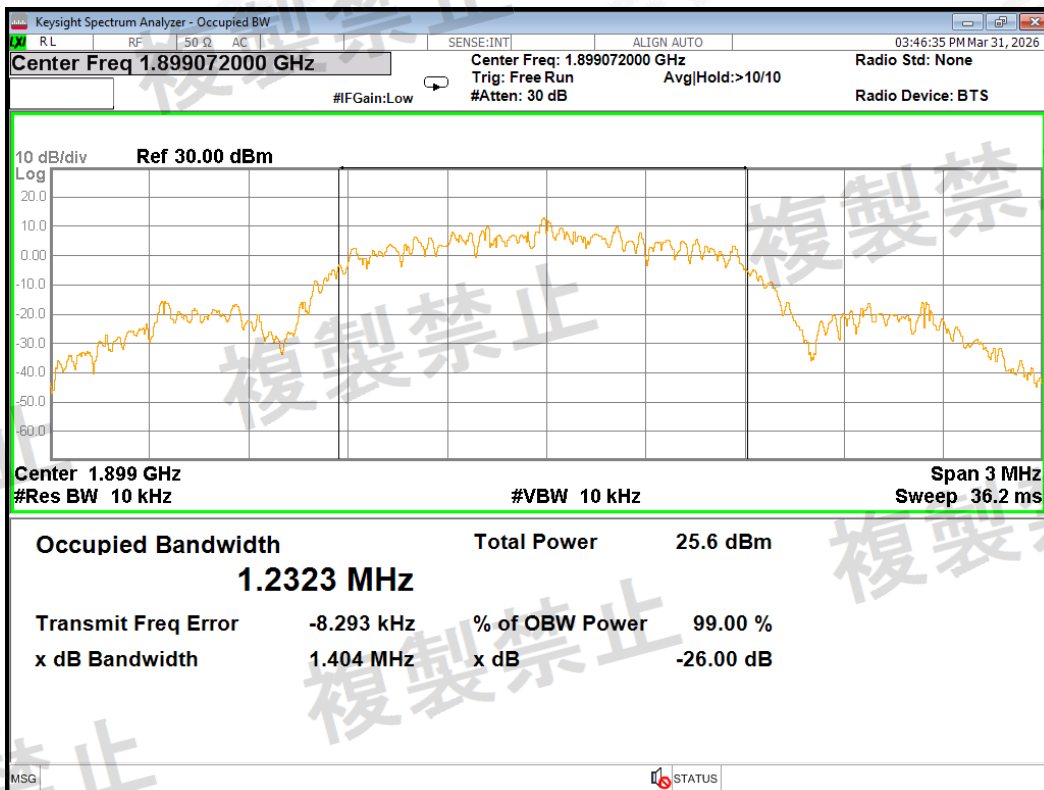


ANT 0

L-Occupied Bandwidth (99%)

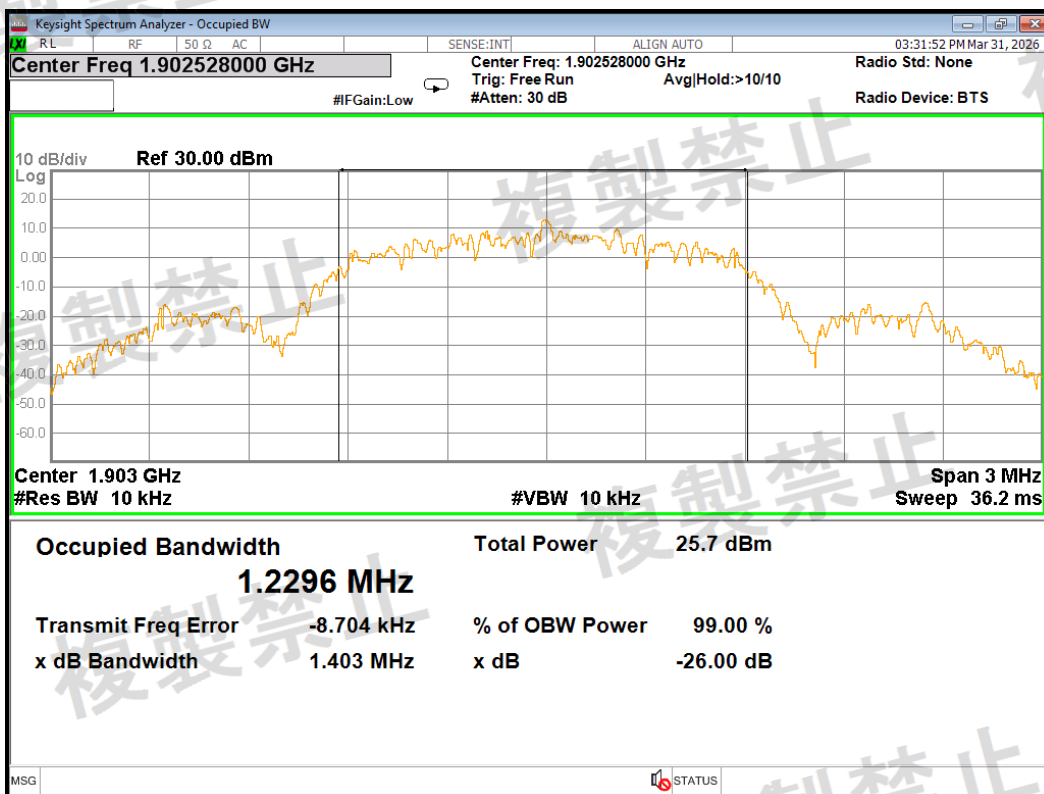


M-Occupied Bandwidth (99%)



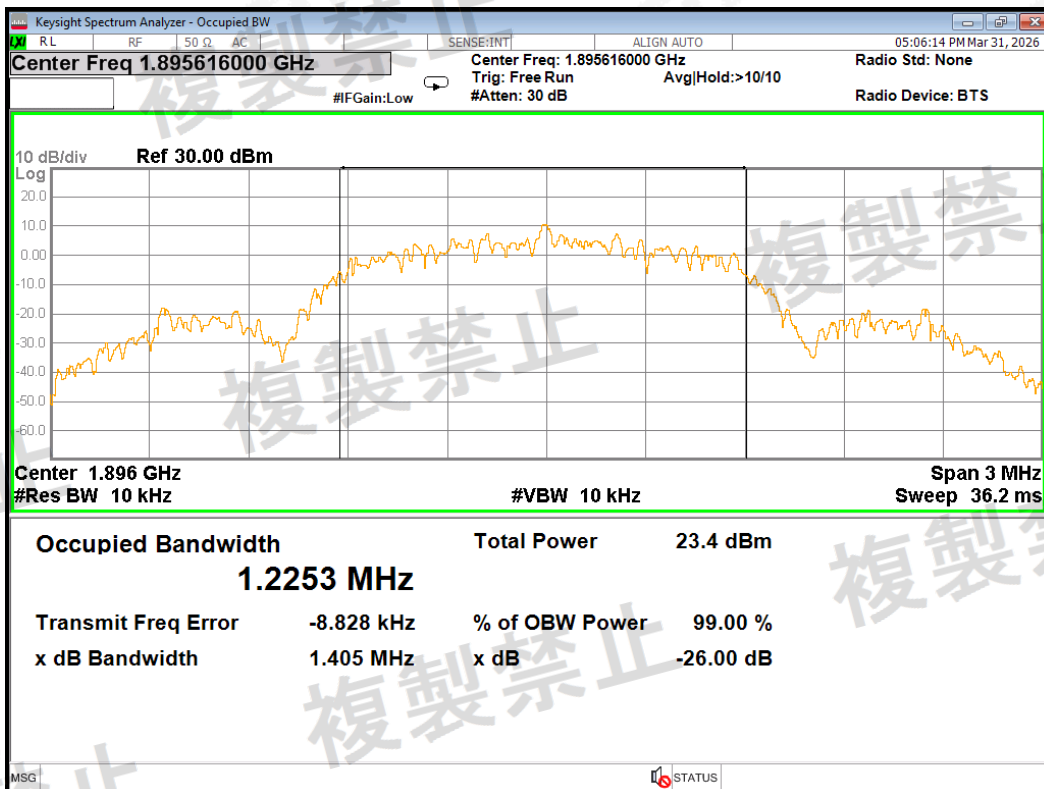


H-Occupied Bandwidth (99%)



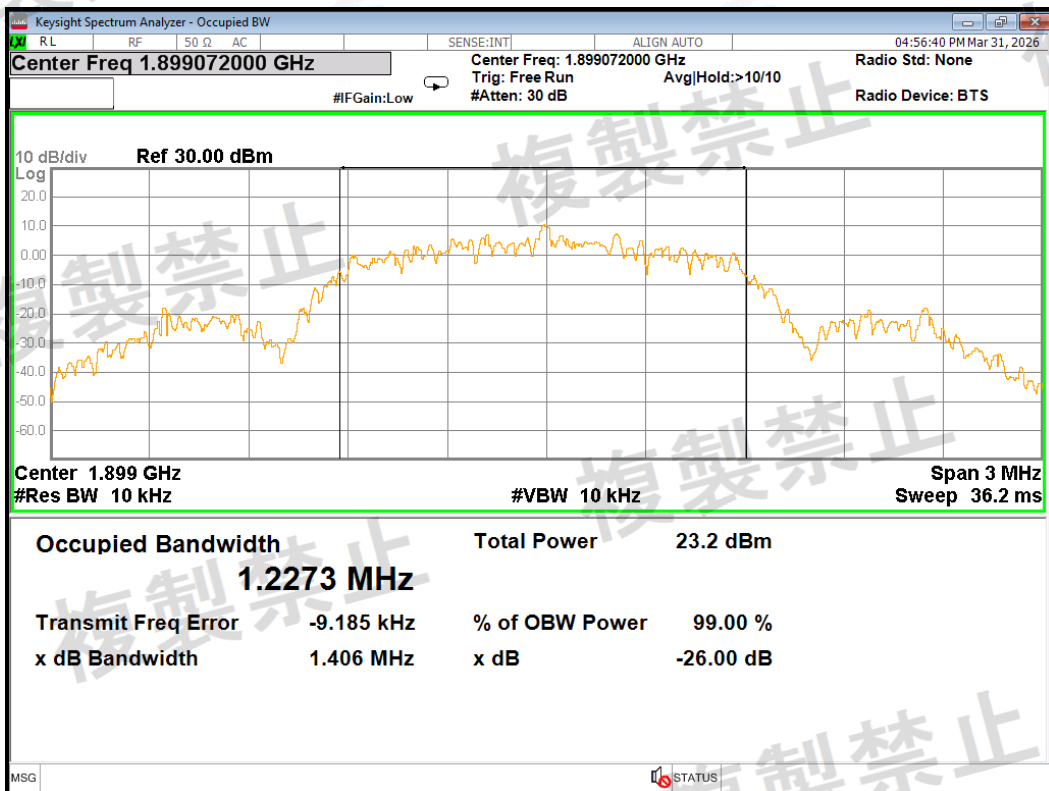
ANT 1

L-Occupied Bandwidth (99%)

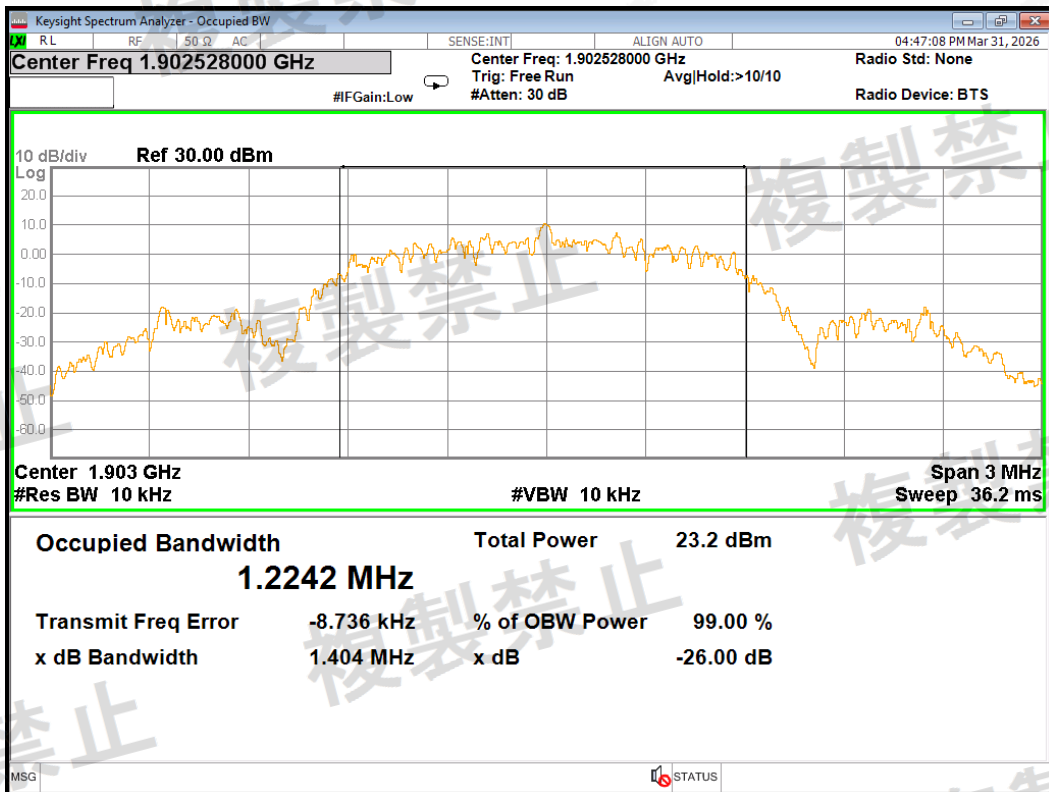




M-Occupied Bandwidth (99%)



H-Occupied Bandwidth (99%)



PP
ANT 0

Test Conditions		Channel (MHz)	99% Occupied Bandwidth(MHz)	Limit (MHz)
Nom(V)	2.4	1895.616	1.2286	≤ 1.728 (For FSK)
		1899.072	1.2327	
		1902.528	1.2386	

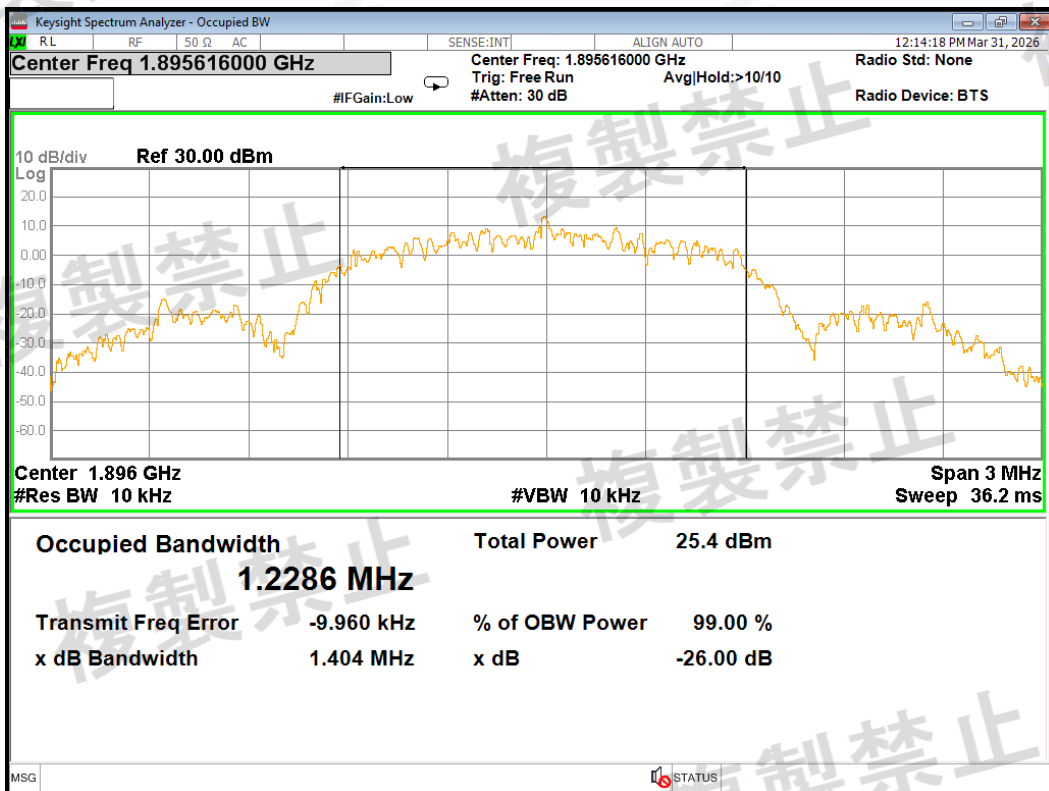
ANT 1

Test Conditions		Channel (MHz)	99% Occupied Bandwidth(MHz)	Limit (MHz)
Nom(V)	2.4	1895.616	1.2306	≤ 1.728 (For FSK)
		1899.072	1.2294	
		1902.528	1.2295	

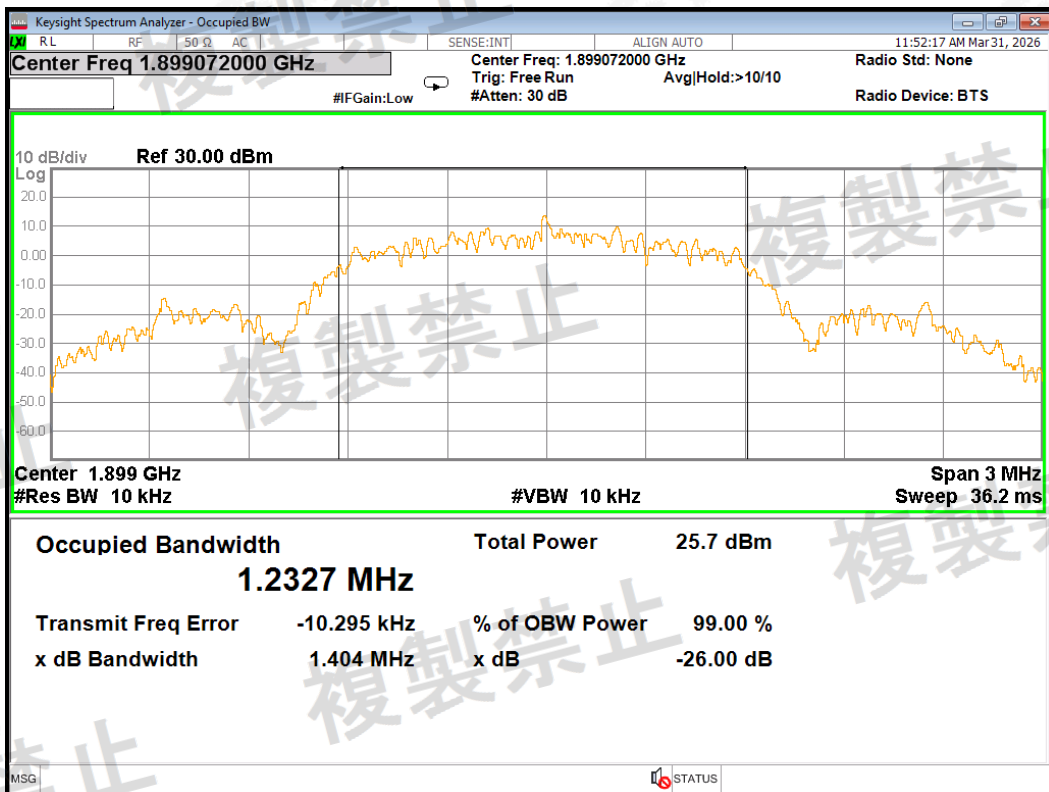


ANT 0

L-Occupied Bandwidth (99%)

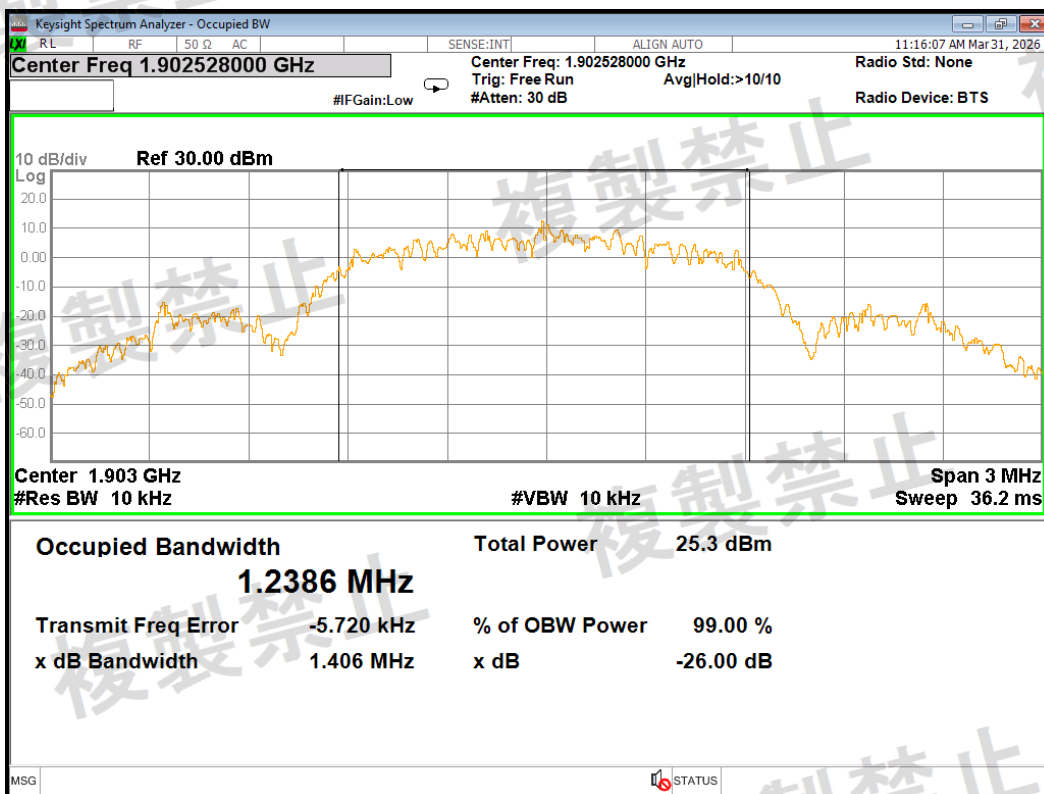


M-Occupied Bandwidth (99%)



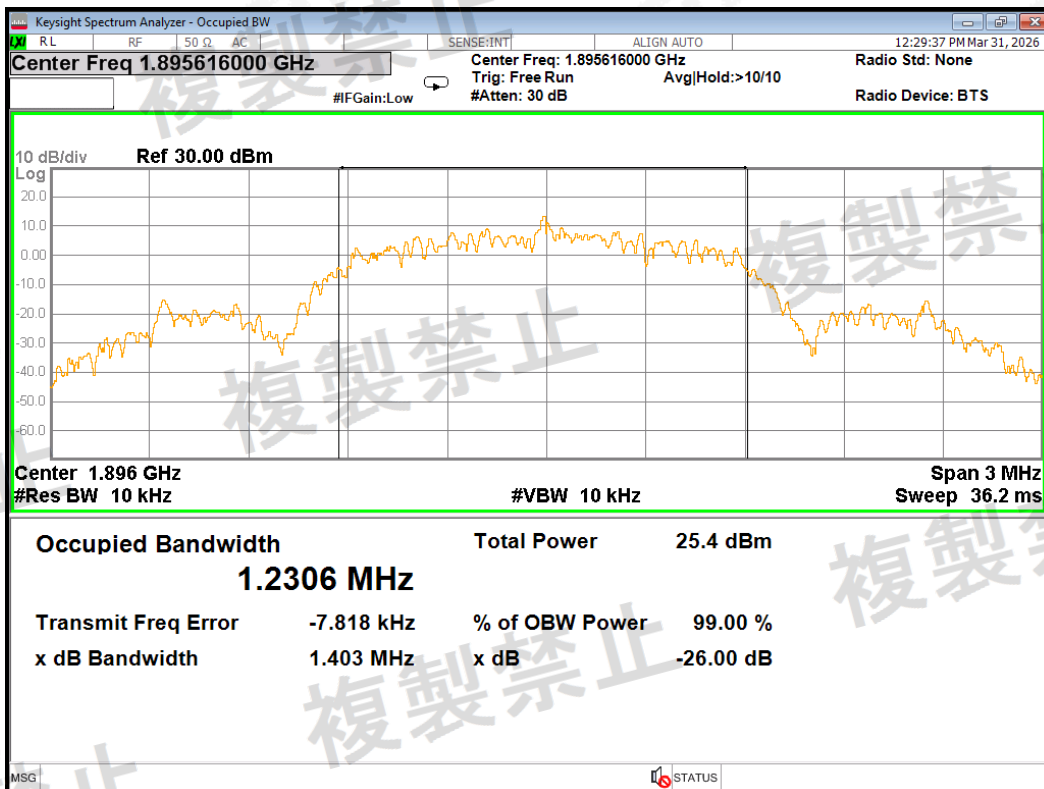


H-Occupied Bandwidth (99%)



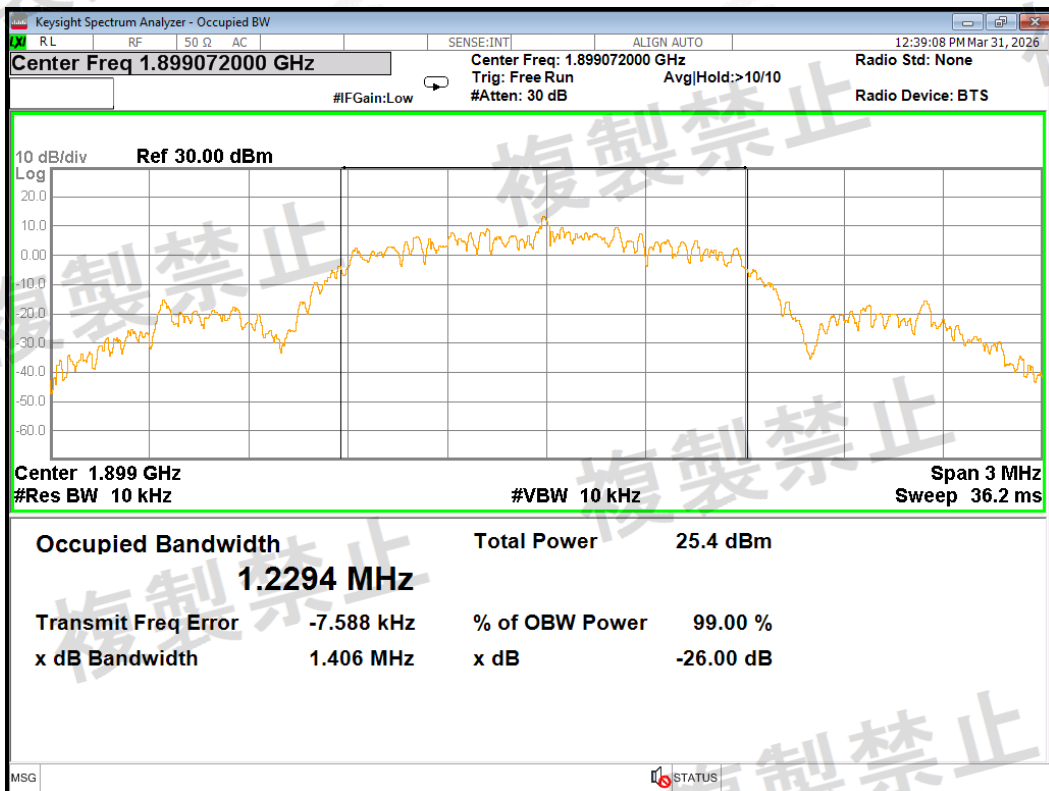
ANT 1

L-Occupied Bandwidth (99%)

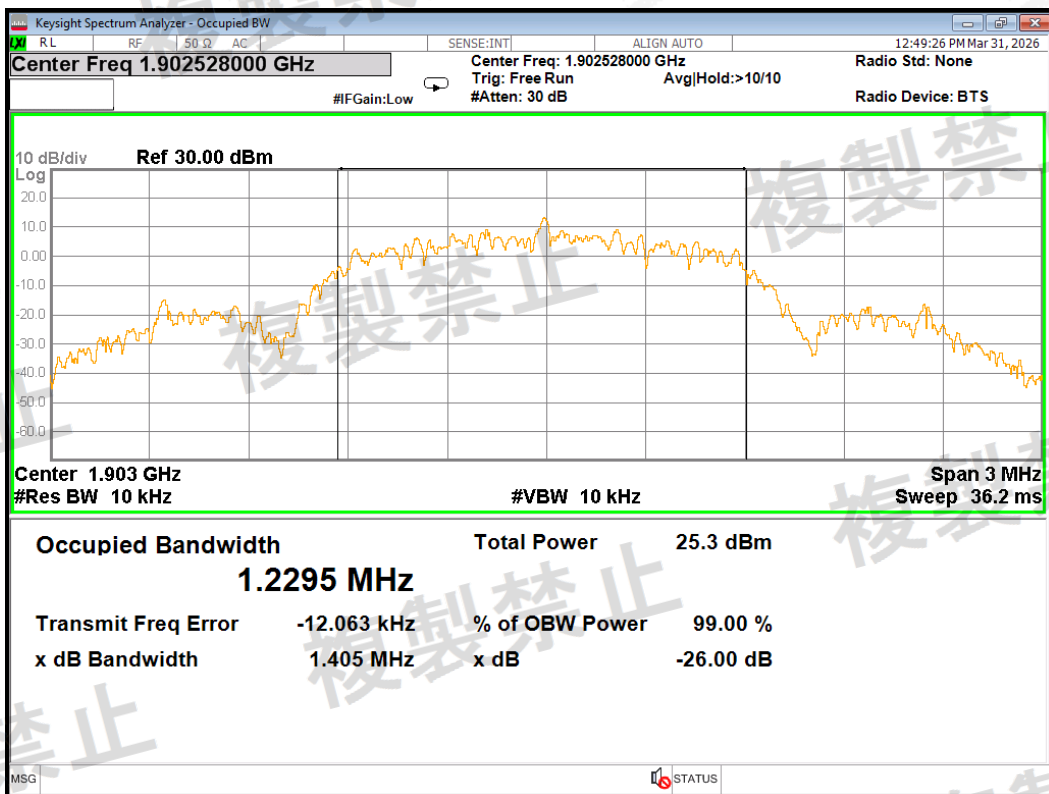




M-Occupied Bandwidth (99%)



H-Occupied Bandwidth (99%)





7. LEAKAGE POWER AT NO-CARRIER TRANSMISSION

7.1 LIMIT

Item	Limits
Leakage Power at No-Carrier Transmission:	80 nW

7.2 TEST PROCEDURES

1. Setting of SA is following as: RB: 3MHz / VB: 10MHz / SPAN: 0Hz
Sweep time: 10ms or more (1 frame or more), more than 400 points / Sweep trigger: External trigger/
Sweep Mode: Single sweep / Detect mode: sample
2. EUT is connected to Spectrum analyzer

7.3 TEST SETUP



7.4 TEST DEVIATION

There is no deviation with the original standard.

7.5 EUT OPERATION DURING TEST

Set to the test frequency and transmit by modulating with the standard coded test signal in the operation mode of forced transmission control.



7.6 TEST RESULT

Temperature:	25°C	Pressure :	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor)Voltage		

FP
ANT 0

Test Conditions		Channel (MHz)	P _{ON} (dBm)	P _{OFF} (dBm)	Result (dBm)	Result (nW)	Limit (nW)
Nom (V)	3.6	1895.616	16.71	-74.210	-60.22	0.95	< 80
		1899.072	16.68	-73.997	-59.87	1.03	< 80
		1902.528	16.79	-73.161	-59.21	1.20	< 80

ANT 1

Test Conditions		Channel (MHz)	P _{ON} (dBm)	P _{OFF} (dBm)	Result (dBm)	Result (nW)	Limit (nW)
Nom (V)	2.4	1895.616	19.99	-77.130	-63.22	0.48	< 80
		1899.072	20.02	-77.014	-63.19	0.48	< 80
		1902.528	19.96	-77.082	-63.23	0.48	< 80

PP
ANT 0

Test Conditions		Channel (MHz)	P _{ON} (dBm)	P _{OFF} (dBm)	Result (dBm)	Result (nW)	Limit (nW)
Nom (V)	2.4	1895.616	22.27	-76.578	-62.76	0.53	< 80
		1899.072	22.52	-76.872	-63.07	0.49	< 80
		1902.528	22.48	-76.850	-63.16	0.48	< 80

ANT 1

Test Conditions		Channel (MHz)	P _{ON} (dBm)	P _{OFF} (dBm)	Result (dBm)	Result (nW)	Limit (nW)
Nom (V)	2.4	1895.616	22.30	-76.520	-62.73	0.53	< 80
		1899.072	22.35	-76.698	-62.95	0.51	< 80
		1902.528	21.82	-76.900	-62.70	0.54	< 80

Note: Result(nW) = Antenna Power +13.8dB-10log(P_{ON}/P_{OFF})



8. UNWANTED EMISSION INTENSITY IN THE SPURIOUS AREA

8.1 LIMIT

30MHz - 1000MHz: dBm/1MHz or less

1000MHz - 1891.296MHz: dBm/1MHz or less

1906.848MHz - 10GHz: dBm/1MHz or less

8.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Pre-scan:

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1M:1M
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

Measurement of the emissions identified during the pre-scan:

Spectrum Parameter	Setting
Center frequency	unnecessary emission frequency (Note1)
Attenuation	Auto
RB / VB	1M:3M
Detector	sample
Trace	Max Hold
Sweep Time	Auto

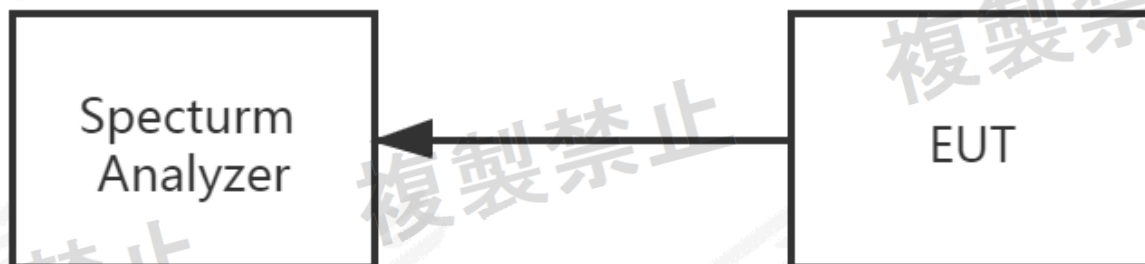
1. Connect the EUT and base stations.

2. EUT have transmitted the maximum modulation signal and fixed channelize.

Note1:

unnecessary emission frequency	Center frequency
1890.796-1891.296MHz	1.890.796MHz
1906.848-1907.348MHz	1907.348MHz

8.3 TEST SETUP



8.4 TEST DEVIATION

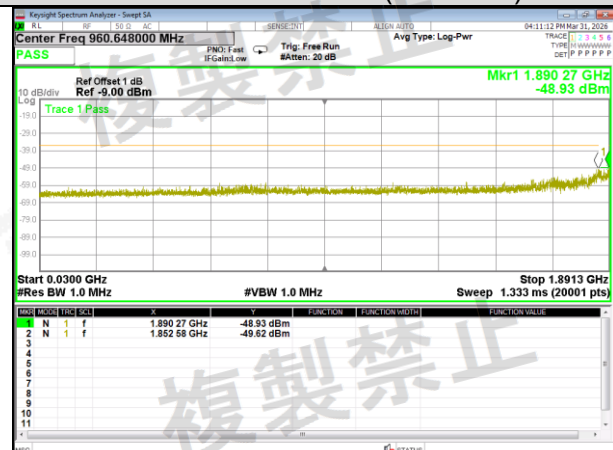
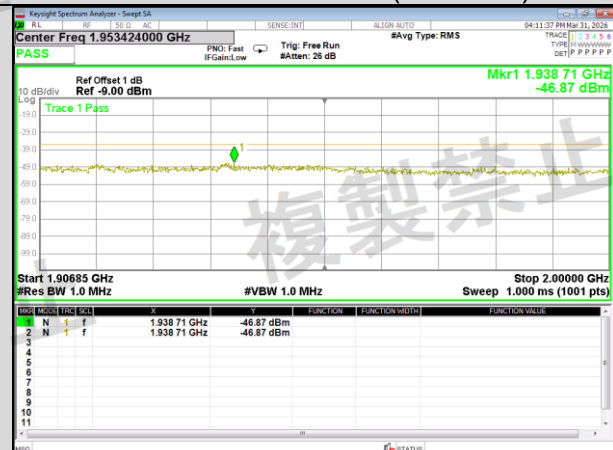
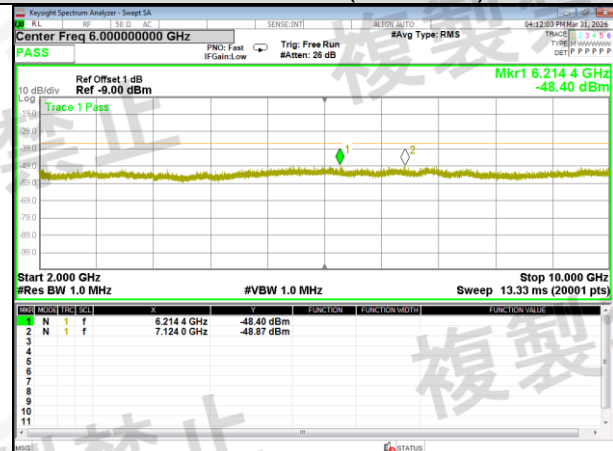
There is no deviation with the original standard.



8.5 TEST RESULT

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor) Voltage-(CH4, CH2, CH0)		

FP
ANT 0

L-30M-1891.296MHz(Pre Scan) 	L-30M-1891.296MHz(Detail) No test required
L-1906.848~2000MHz(Pre Scan) 	L-1906.848MHz-2GHz(Detail) No test required
L-2GHz-10GHz(Pre Scan) 	L-2GHz-10GHz(Detail) No test required





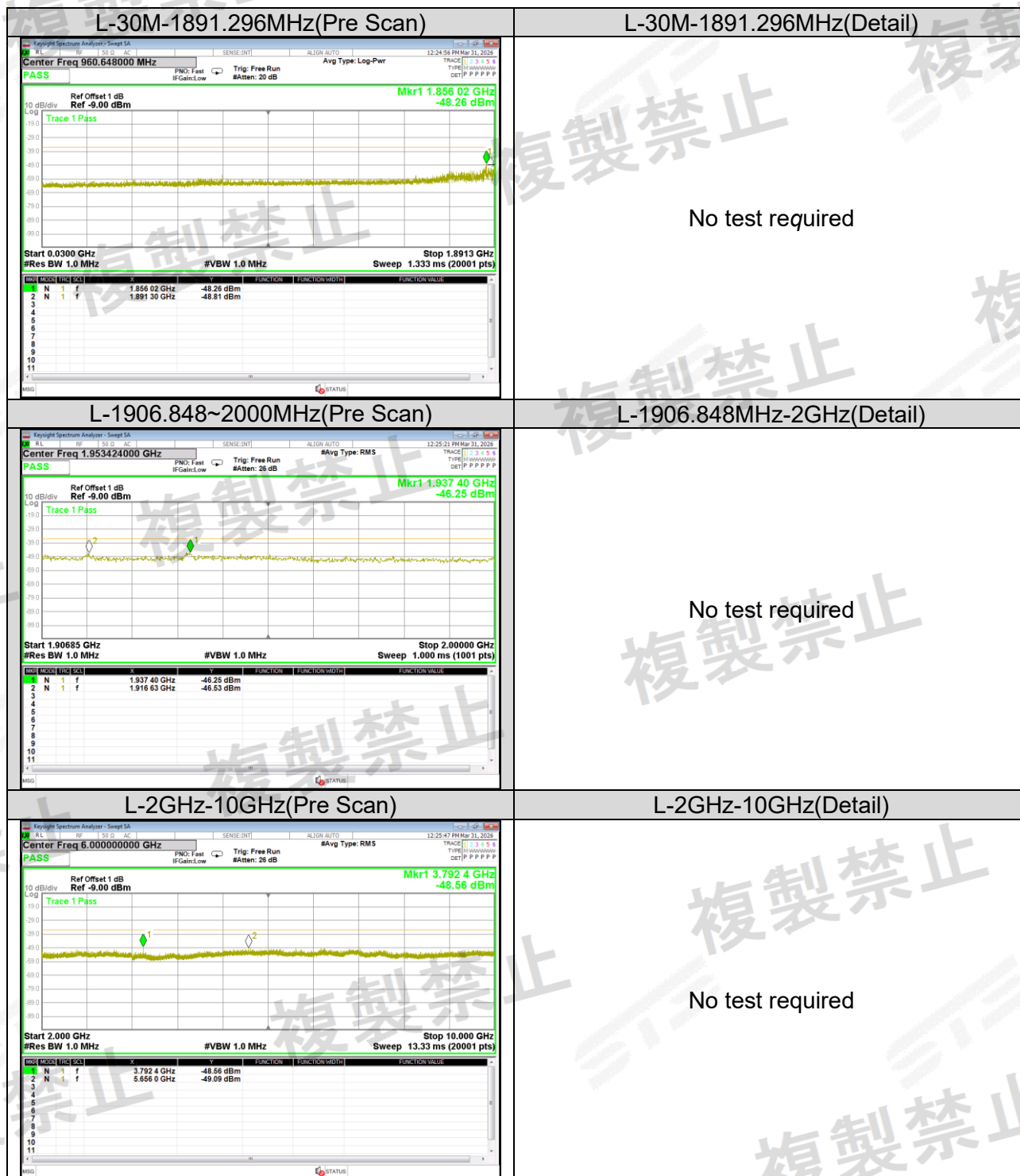


ANT 1







PP
ANT 0

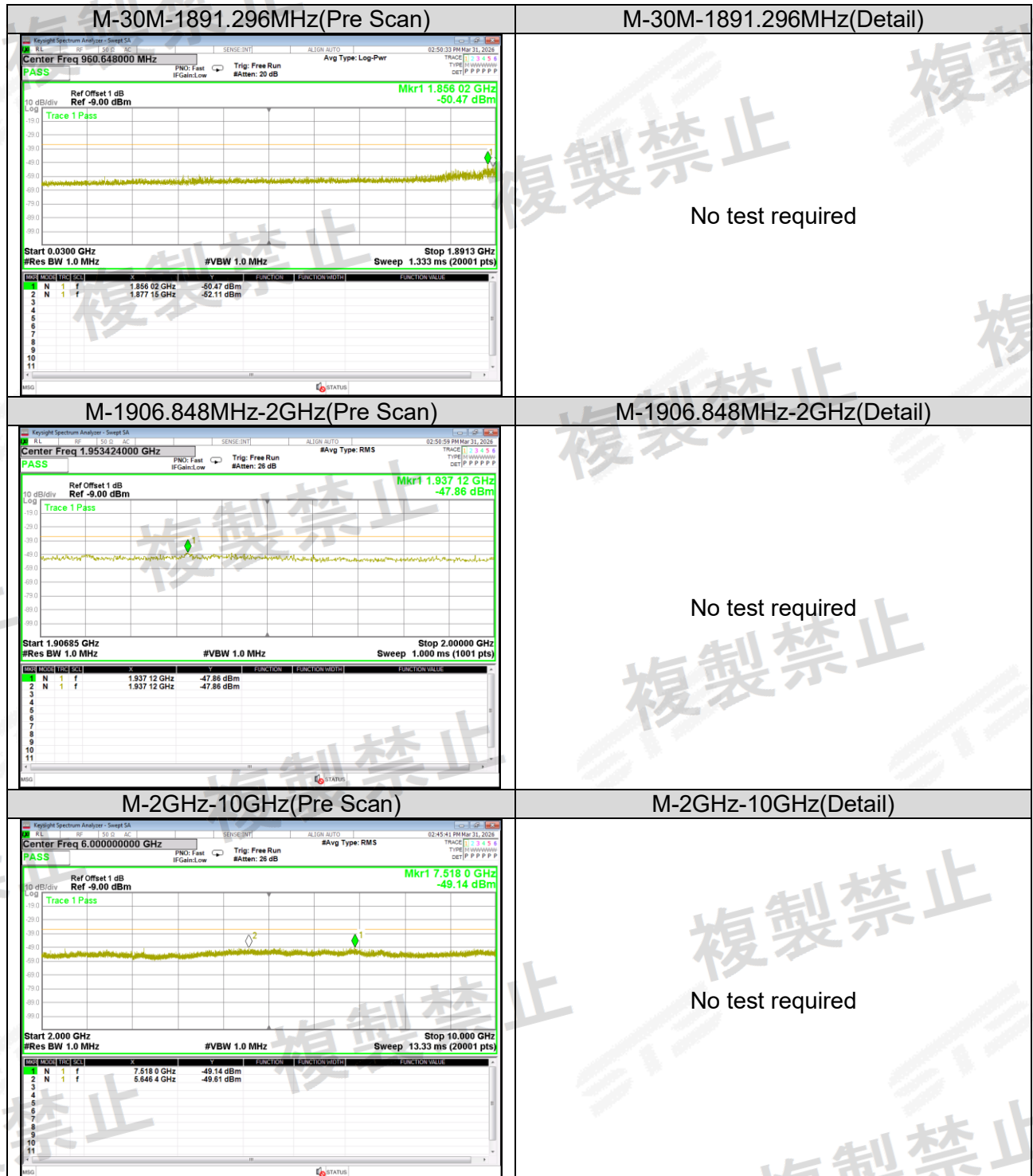






ANT 1









9. UNWANTED EMISSION INTENSITY IN THE SPURIOUS AREA NEARBY CARRIER FREQUENCY

9.1 LIMIT

1893.146MHz - 1906.100MHz: dBm/1MHz or less

9.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Pre-scan :

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	30K:30K
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

RBW correction factor is 15.2dB.

Measurement of the emissions identified during the pre-scan :

Spectrum Parameter	Setting
Attenuation	Auto
Span	1MHz
RB / VB	30K:30K
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

1. Connect the EUT and base stations.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Calculate unnecessary emission power by the following formula:
Unnecessary emission power=(Ps/Pc)*Pb
Ps: Unnecessary emission power
Pc: Power of carrier
Pb:Ant power+13.8dB



9.3 TEST SETUP



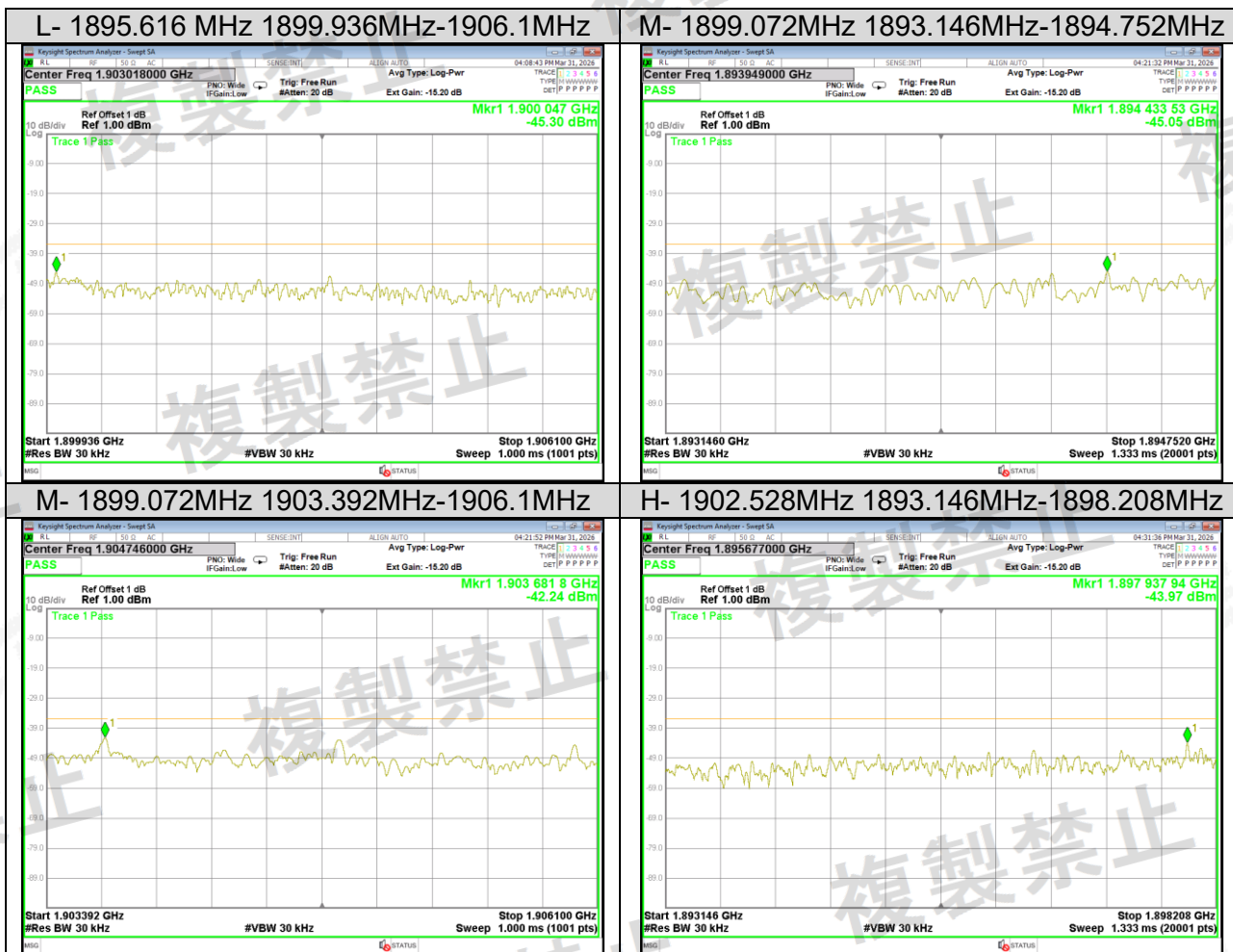
9.4 TEST DEVIATION

There is no deviation with the original standard.



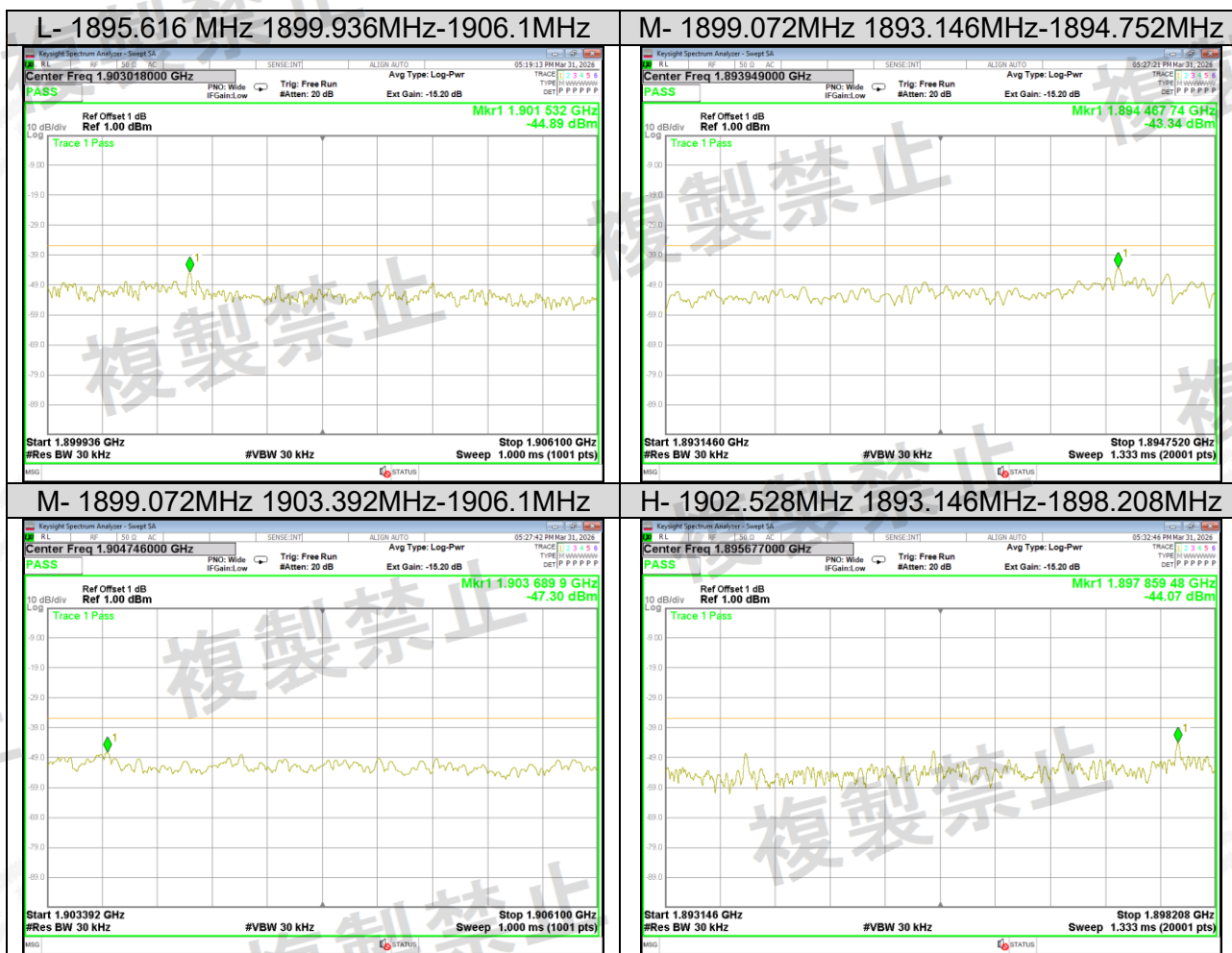
9.5 TEST RESULT

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor) Voltage-(CH4, CH2, CH0)		

FP
ANT 0



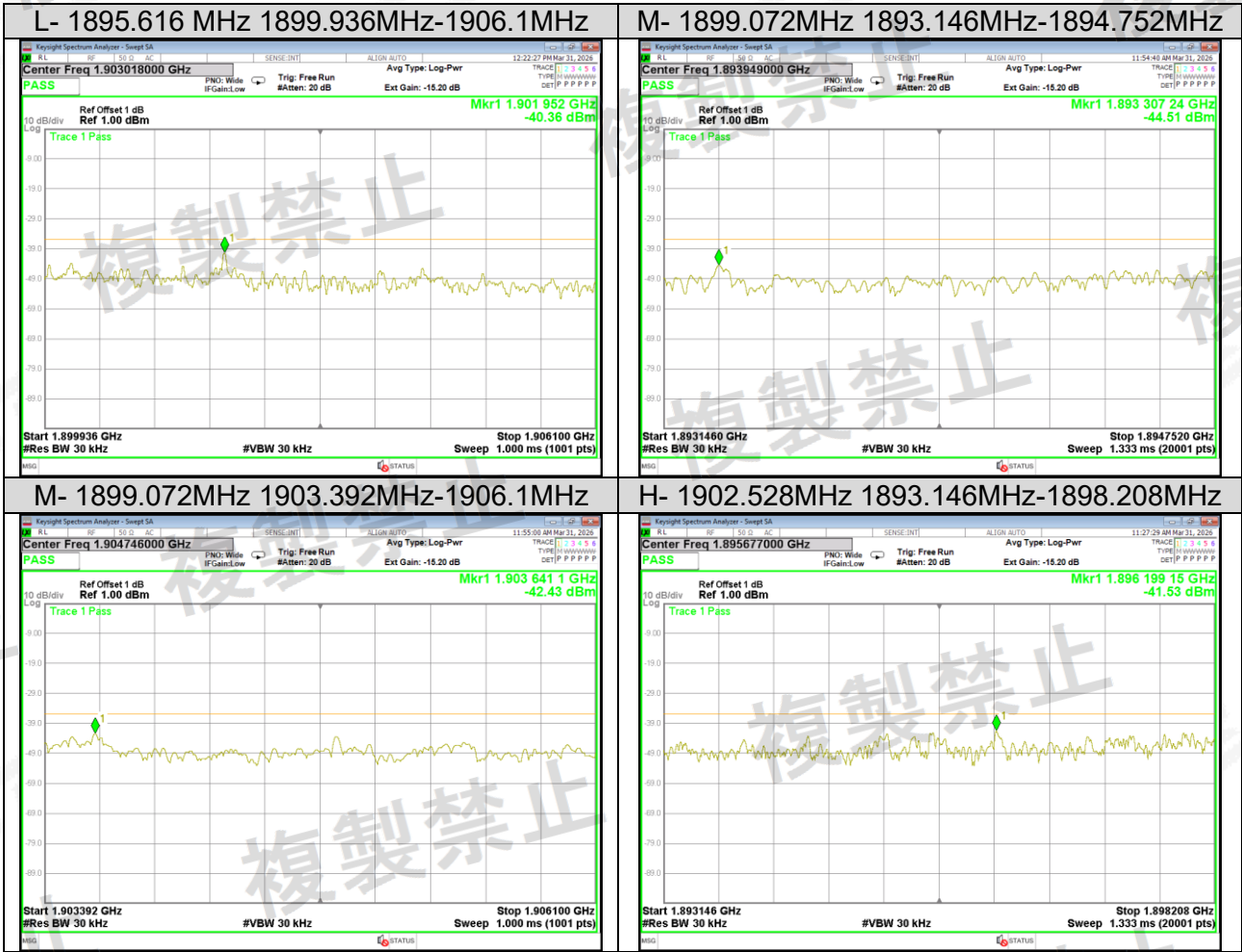
ANT 1





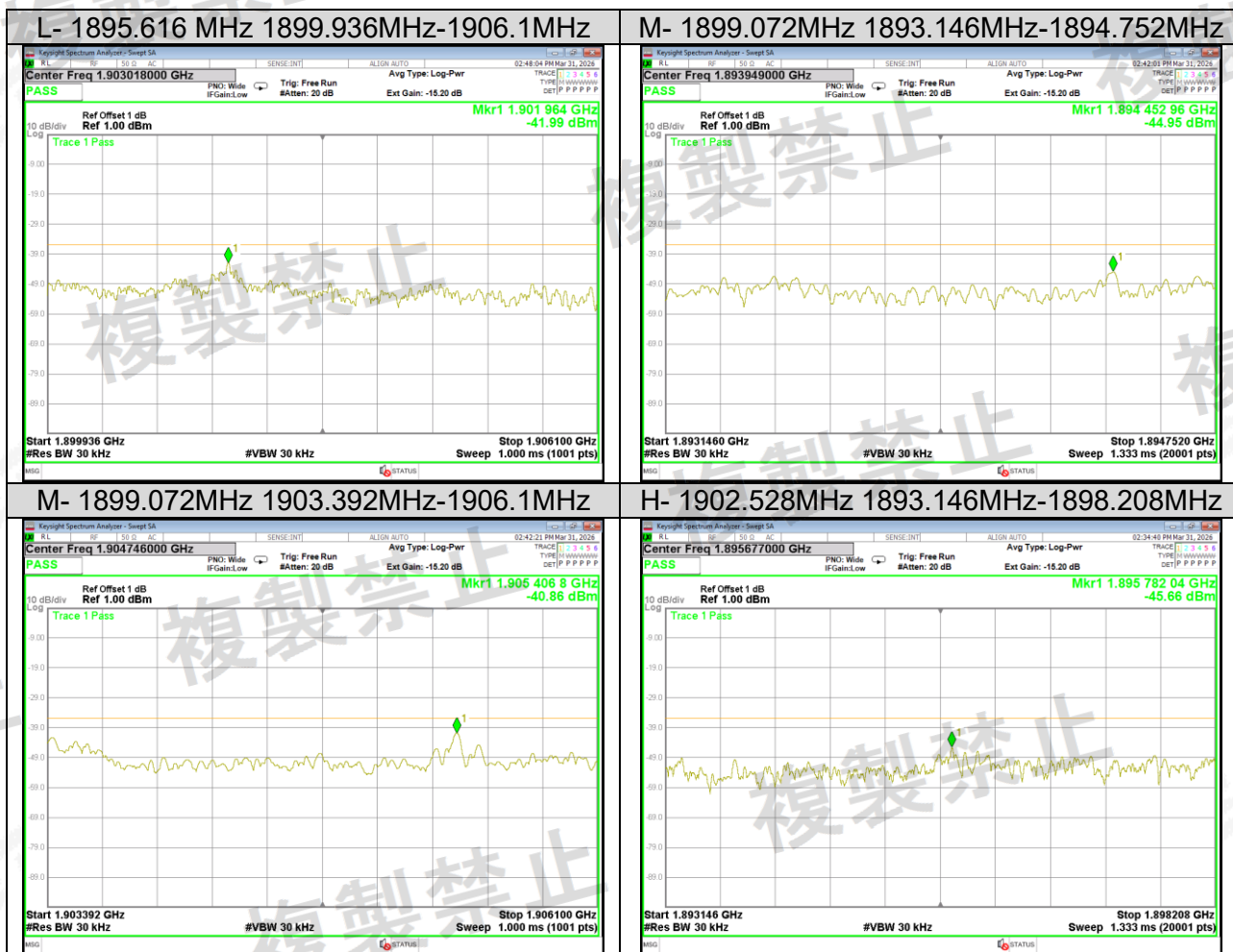
PP

ANT 0





ANT 1





10. UNWANTED EMISSION INTENSITY IN THE OUTBAND LEAKAGE AREA

10.1 LIMIT

(cf -1.228) - (cf - 864) kHz: -5.6dBm/192kHz or less
(cf +864) - (cf + 1228) kHz: -5.6dBm/192kHz or less
(cf -2592) - (cf - 1228) kHz: -9.5dBm/1MHz or less
(cf +1228) - (cf + 2592) kHz: -9.5dBm/1MHz or less
(cf -4320) - (cf - 2592) kHz: -29.5dBm/1MHz or less
(cf +2592) - (cf + 4320) kHz: -29.5dBm/1MHz or less
* cf = Center Frequency

10.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Pre-scan :

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10K:10K
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

192KHz RBW correction factor is 12.8dB.

1MHz RBW correction factor is 20dB.

Measurement of the emissions identified during the pre-scan:

Spectrum Parameter	Setting
Attenuation	Auto
Span	(cf±864)- (cf±1228)kHz :192KHz (cf±1228)- (cf±4320)kHz :1MHz
RB / VB	10K:10K
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

1. Connect the EUT and base stations.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Calculate unnecessary emission power by the following formula:
$$\text{Unnecessary emission power} = (\text{Ps}/\text{Pc}) * \text{Pb}$$

Ps: Unnecessary emission power
Pc: Power of carrier
Pb: Ant power+13.8dB



10.3 TEST SETUP



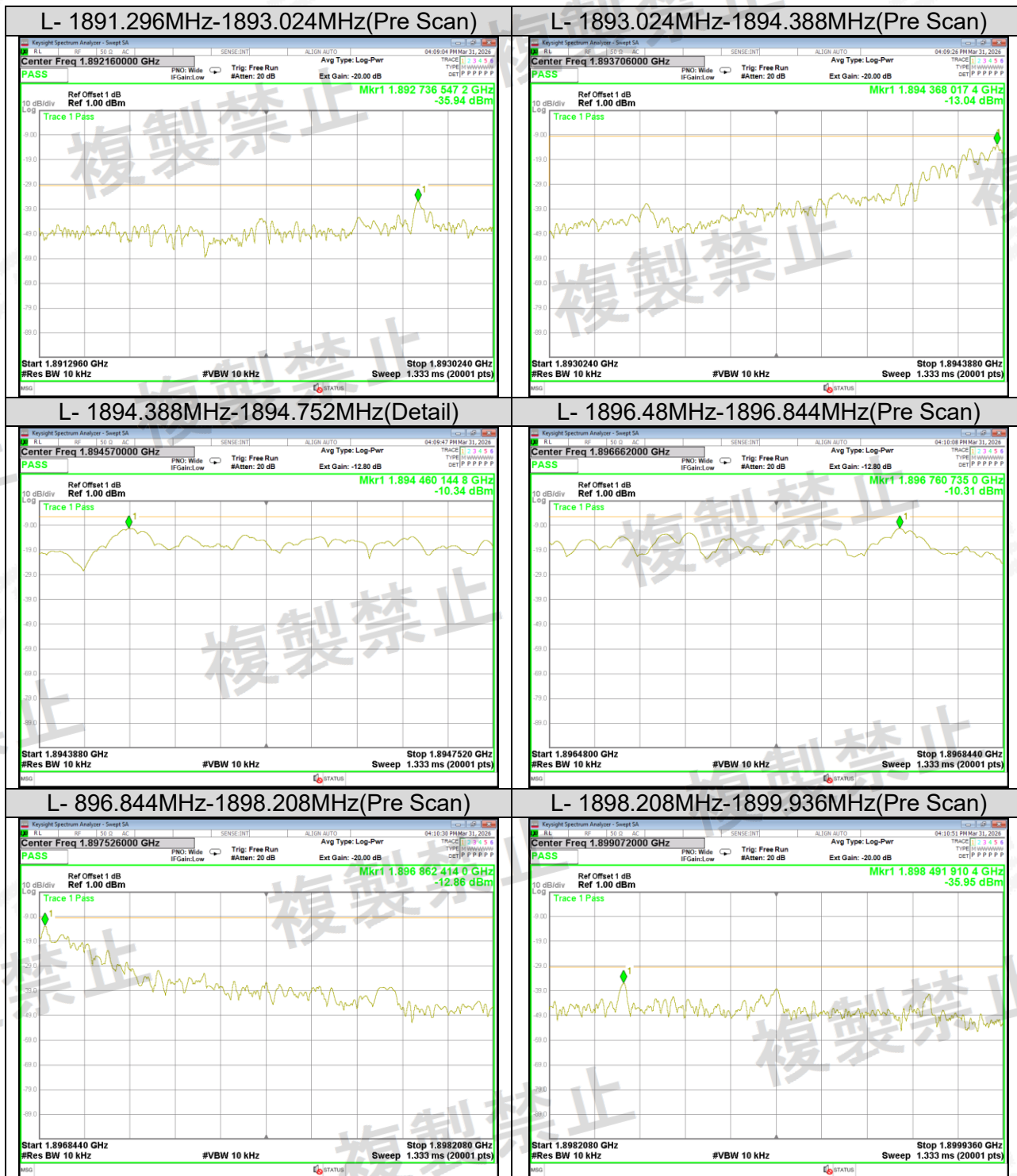
10.4 TEST DEVIATION

There is no deviation with the original standard.



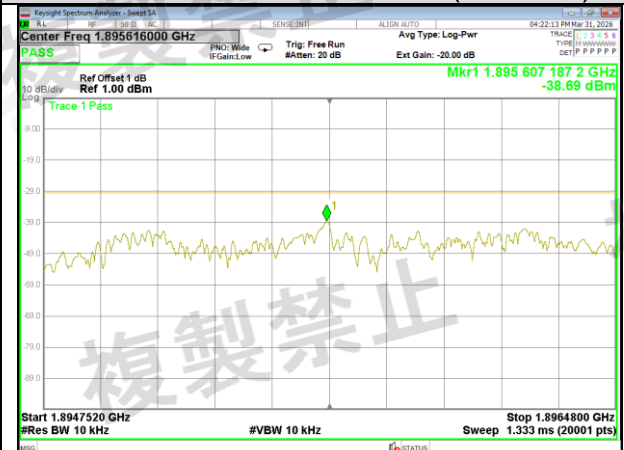
10.5 TEST RESULT

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor) Voltage-(CH4, CH2, CH0)		

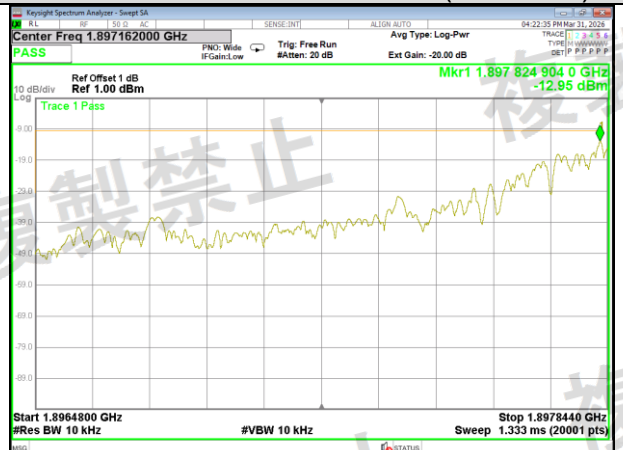
FP
ANT 0



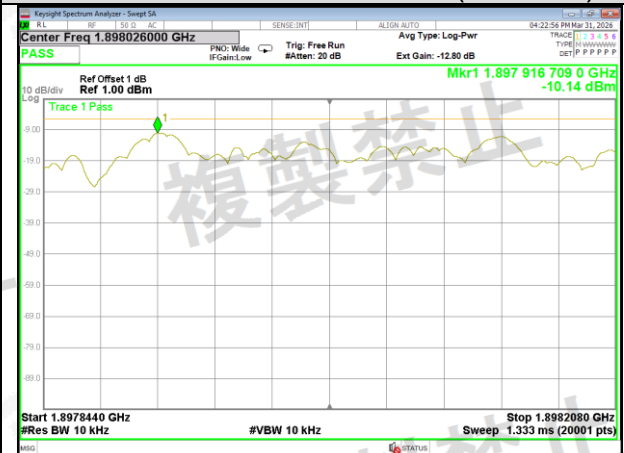
M- 1894.752MHz-1896.48MHz(Pre Scan)



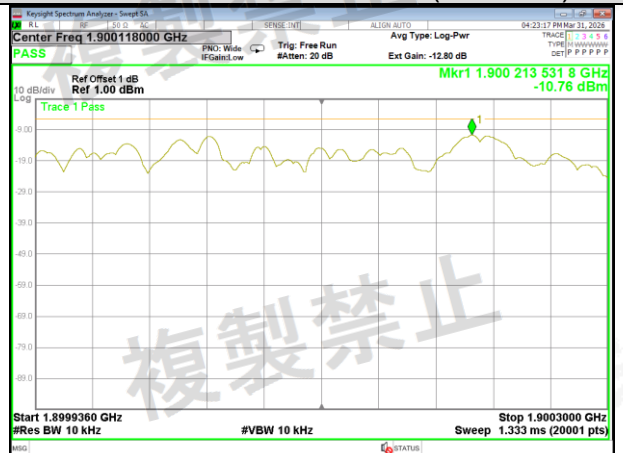
M-1894.572MHz-1897.844MHz(Pre Scan)



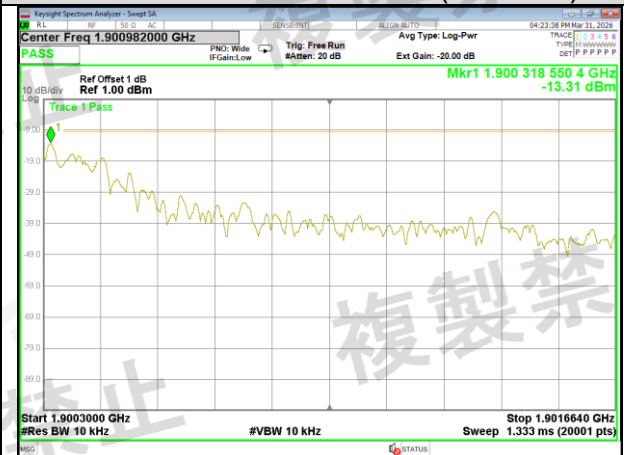
M-1897.844MHz-1898.208MHz(Pre Scan)



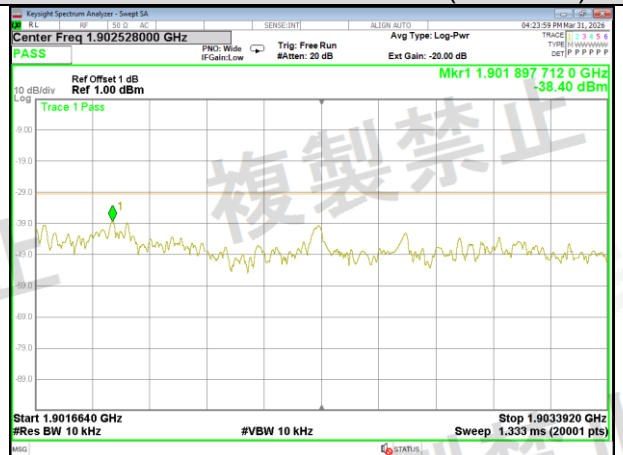
M-1899.936MHz-1900.3MHz(Pre Scan)

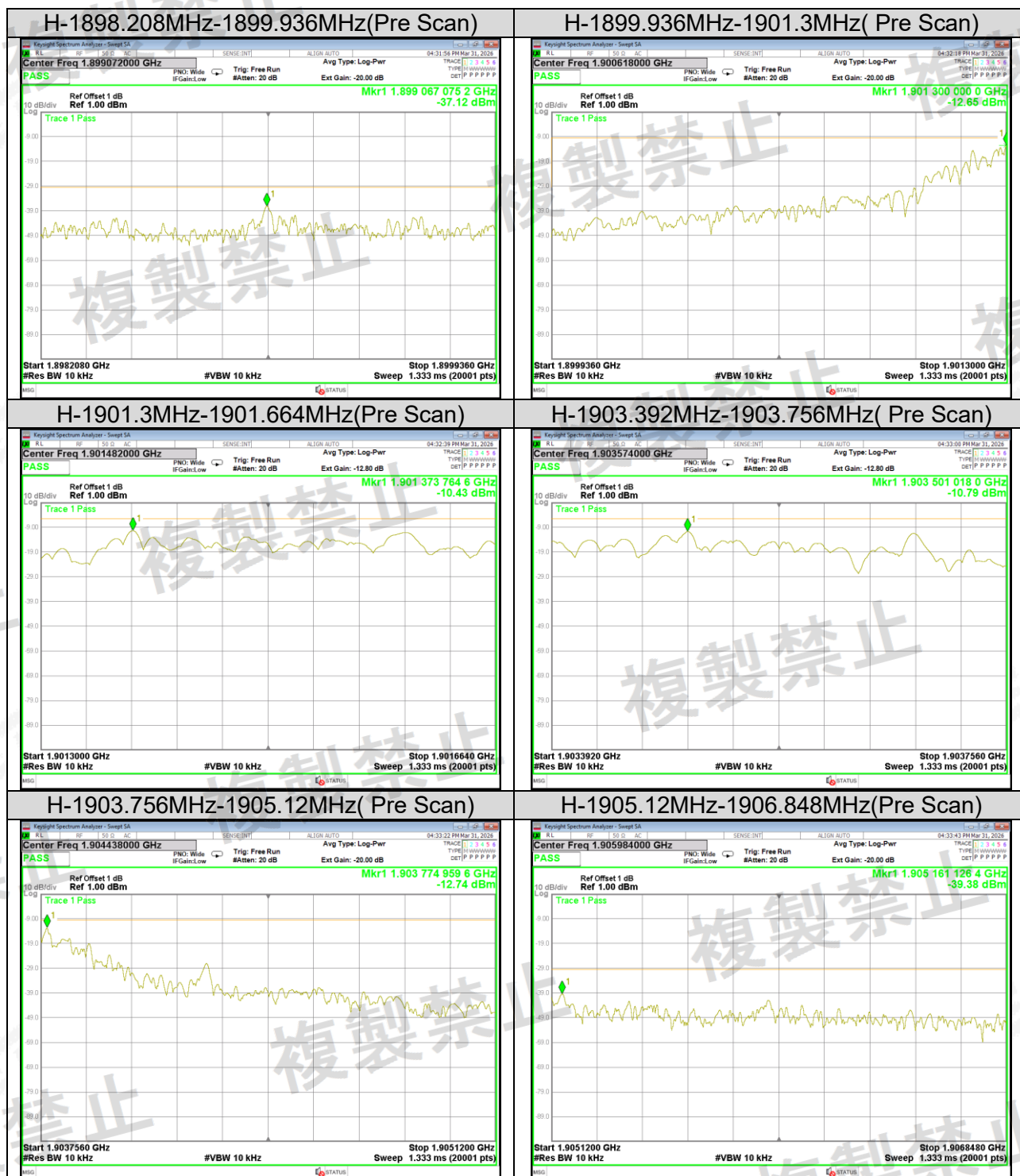


M-1900.3MHz-1901.664MHz(Pre Scan)



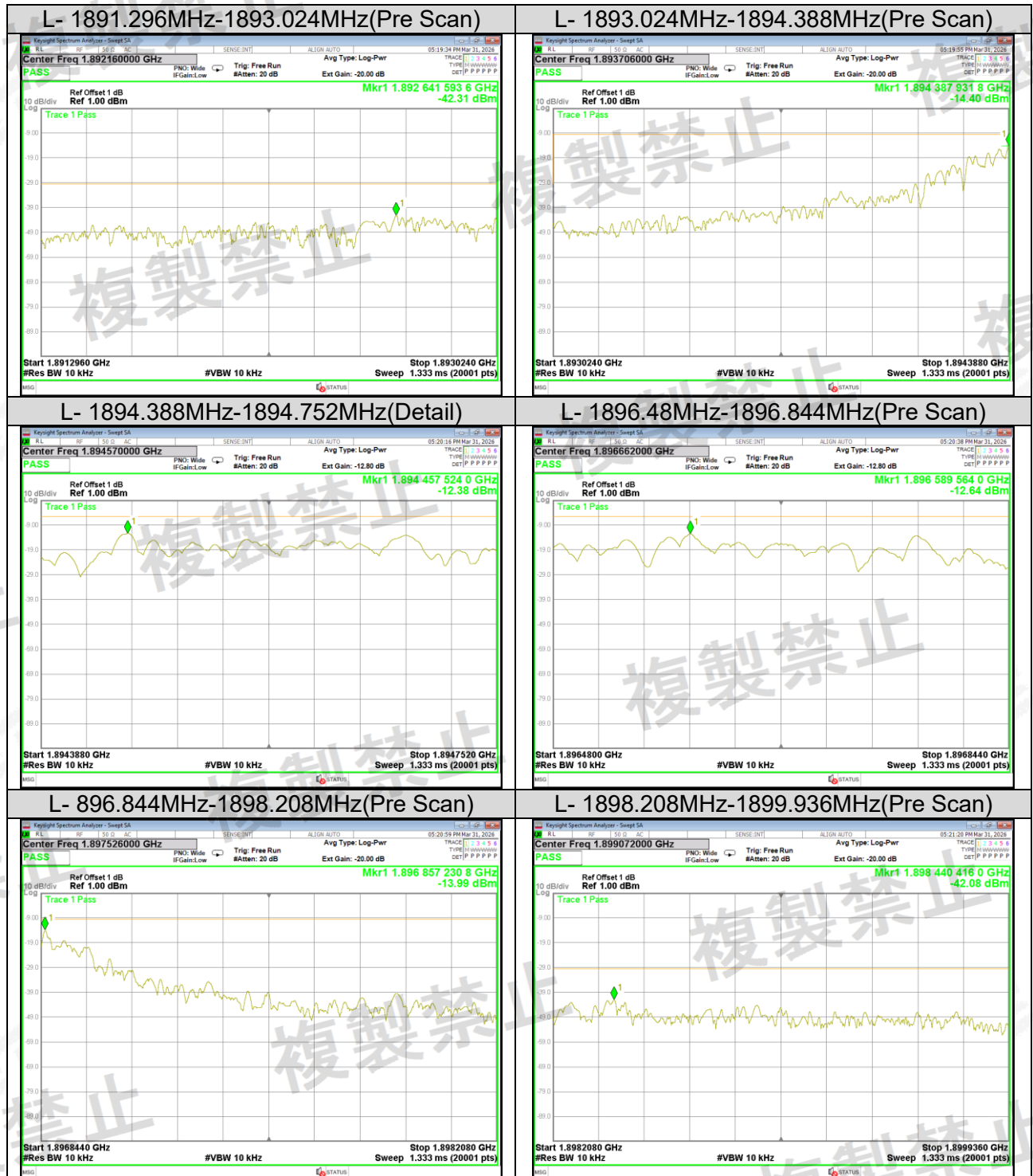
M-1901.664MHz-1903.392MHz(Pre Scan)





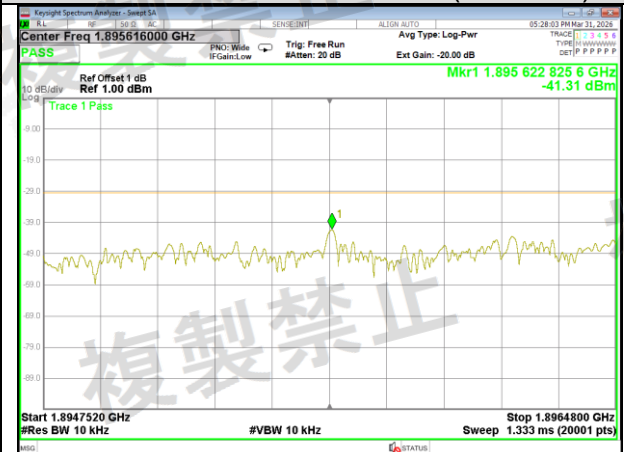


ANT 1

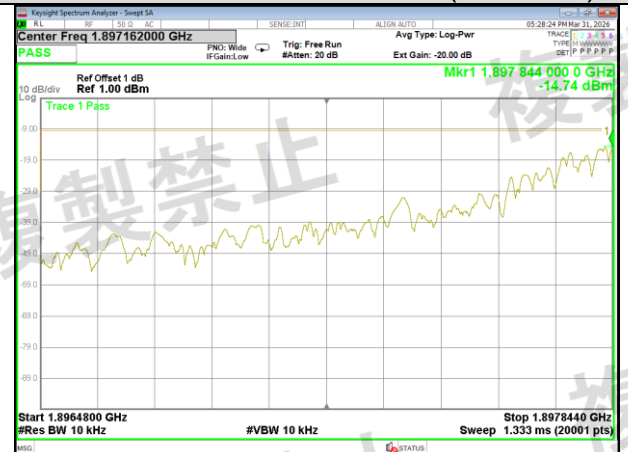




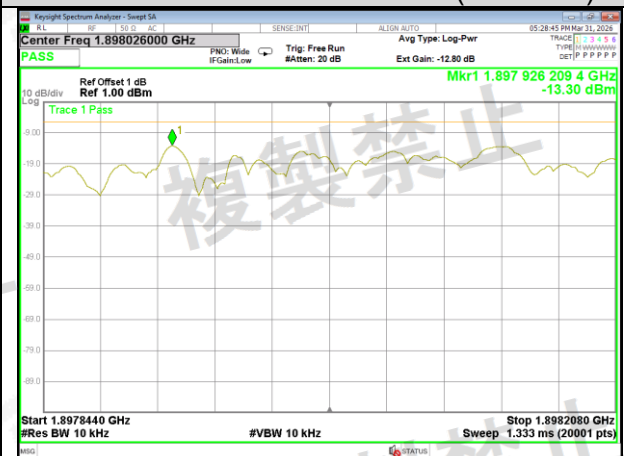
M- 1894.752MHz-1896.48MHz(Pre Scan)



M-1894.572MHz-1897.844MHz(Pre Scan)



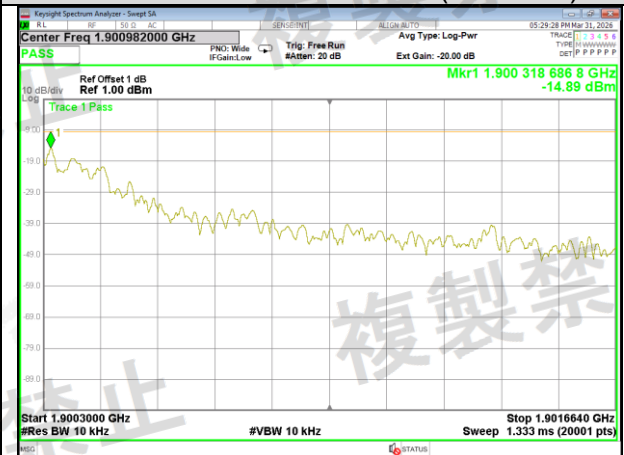
M-1897.844MHz-1898.208MHz(Pre Scan)



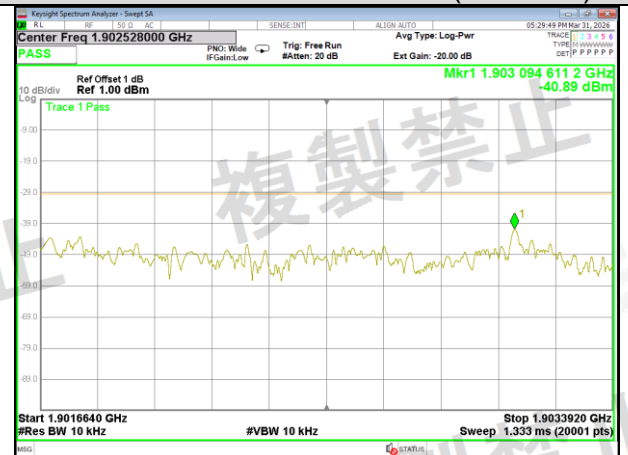
M-1899.936MHz-1900.3MHz(Pre Scan)

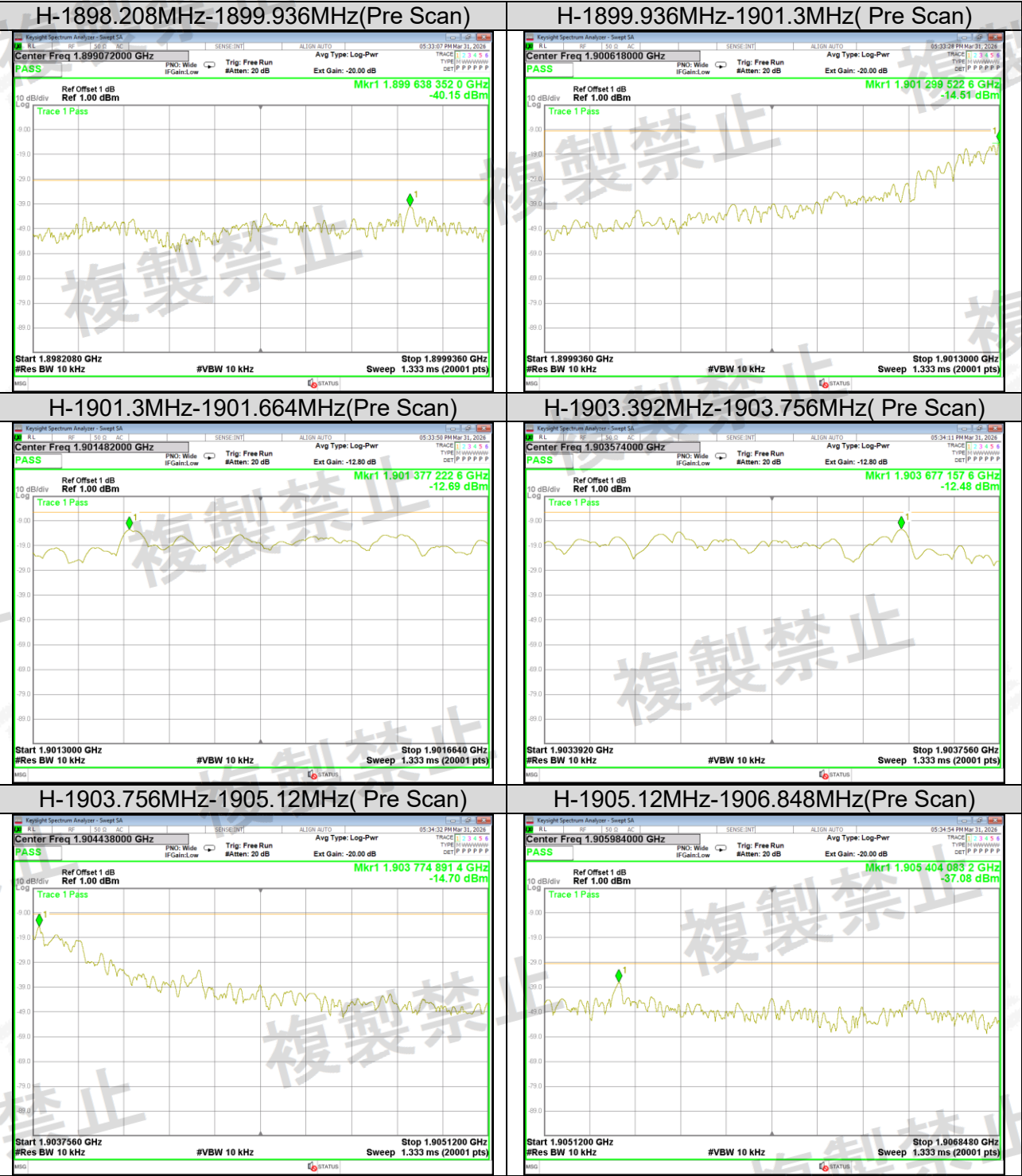


M-1900.3MHz-1901.664MHz(Pre Scan)



M-1901.664MHz-1903.392MHz(Pre Scan)

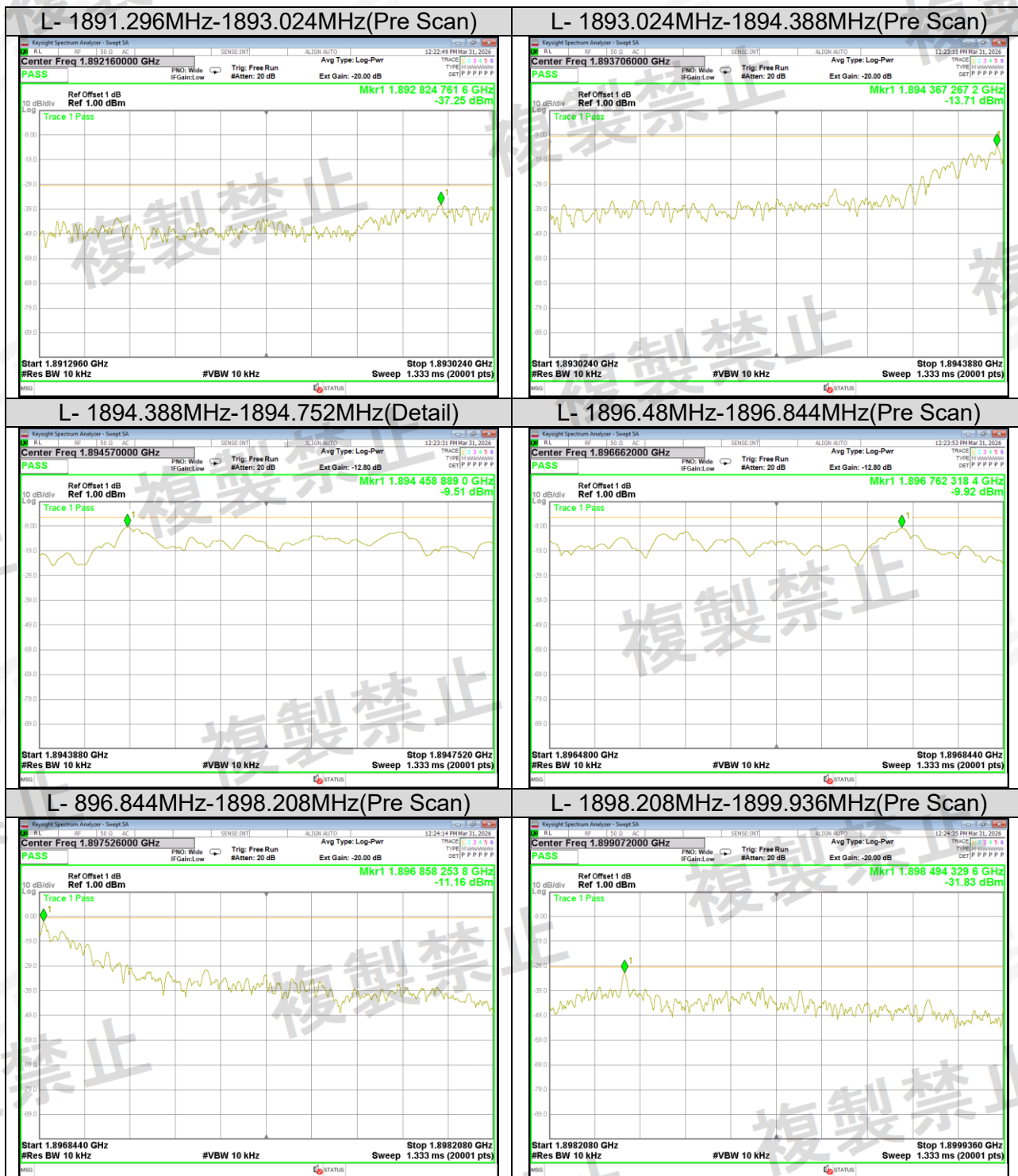






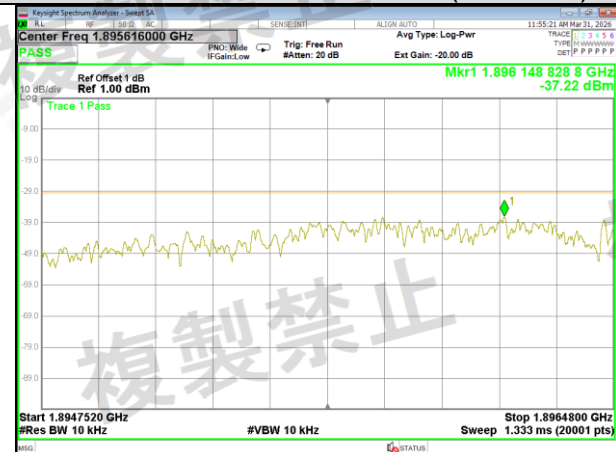
PP

ANT 0

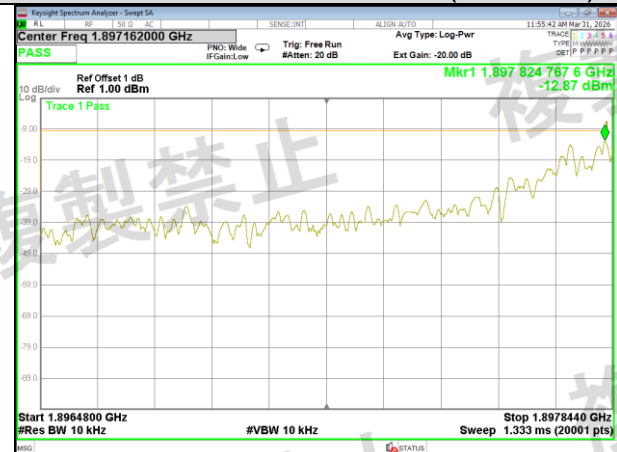




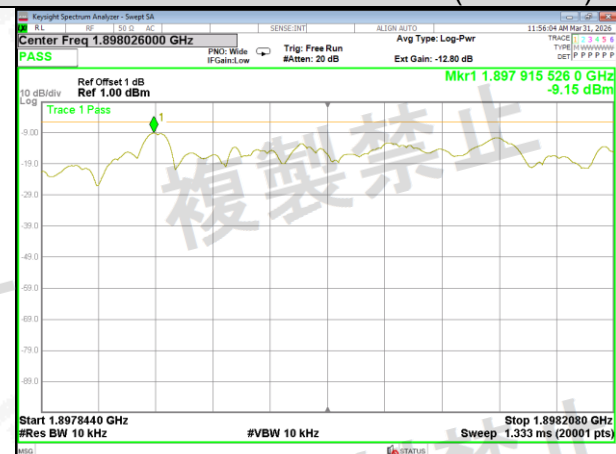
M- 1894.752MHz-1896.48MHz(Pre Scan)



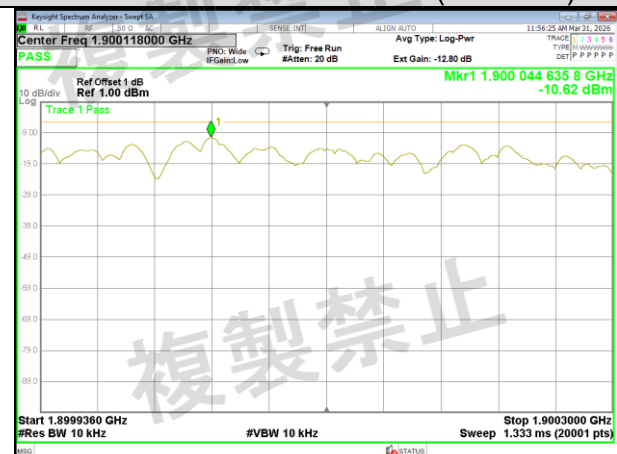
M-1894.572MHz-1897.844MHz(Pre Scan)



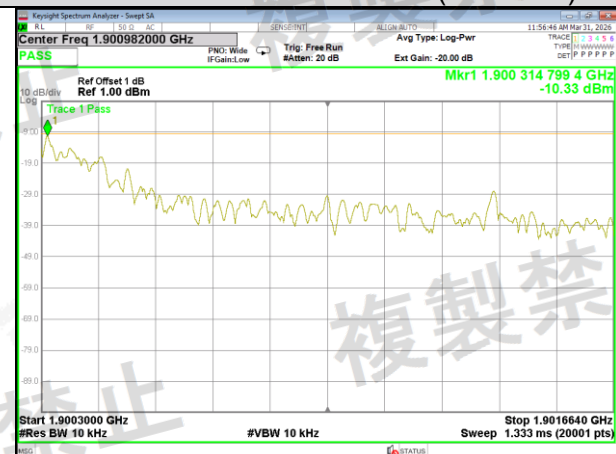
M-1897.844MHz-1898.208MHz(Pre Scan)



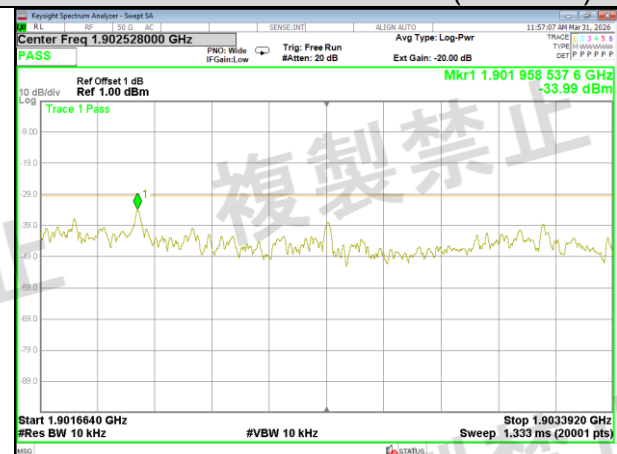
M-1899.936MHz-1900.3MHz(Pre Scan)

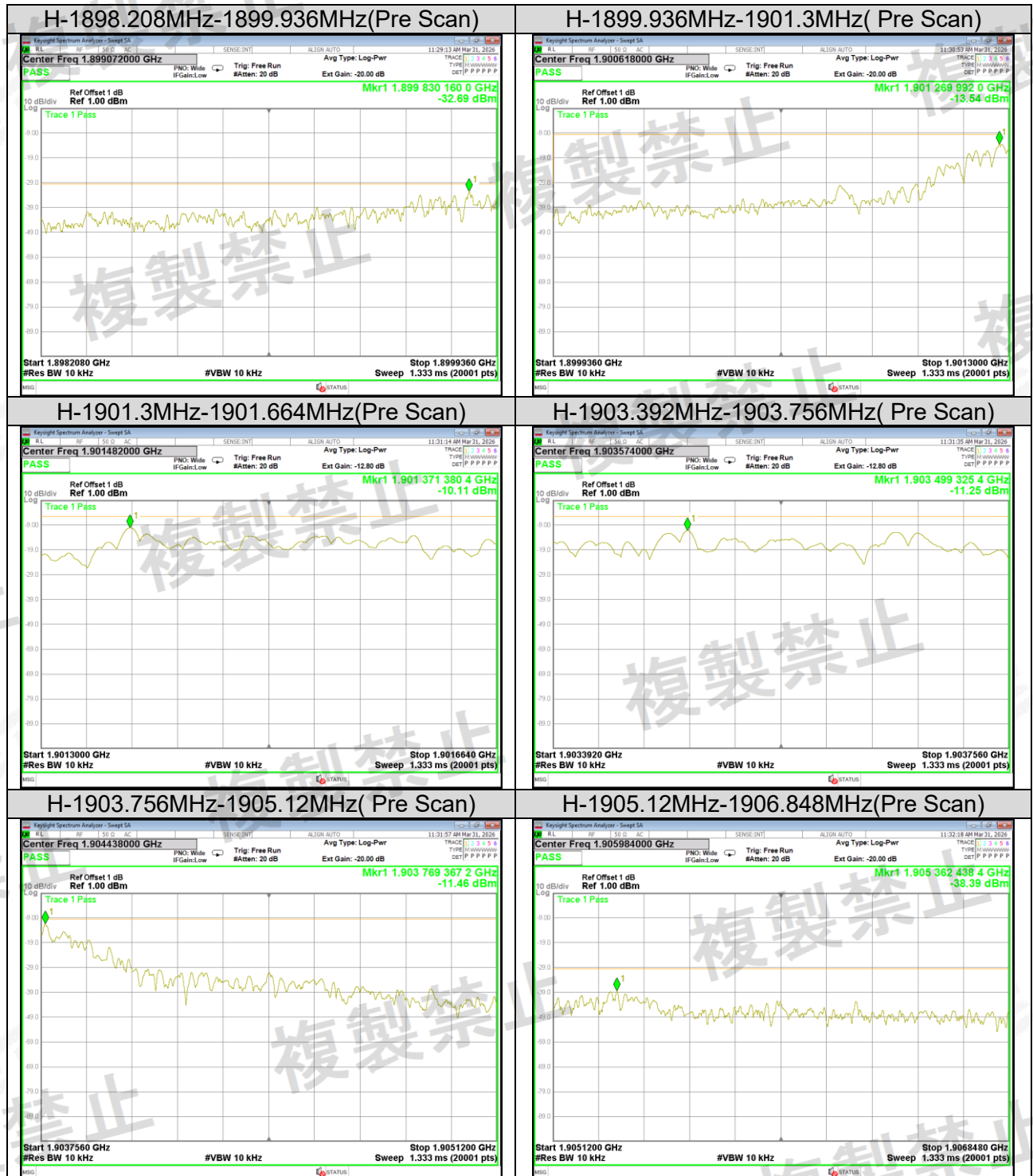


M-1900.3MHz-1901.664MHz(Pre Scan)



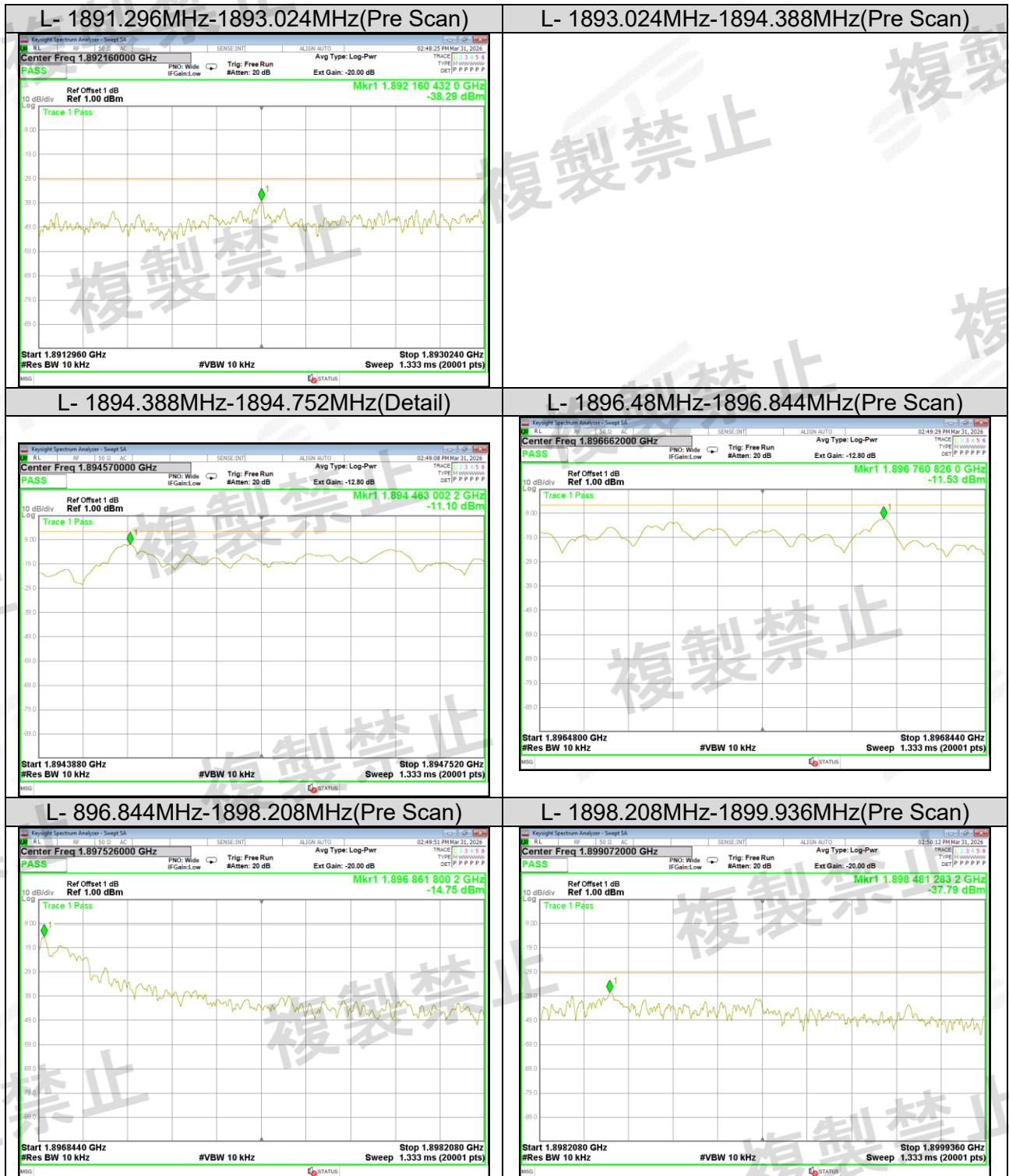
M-1901.664MHz-1903.392MHz(Pre Scan)





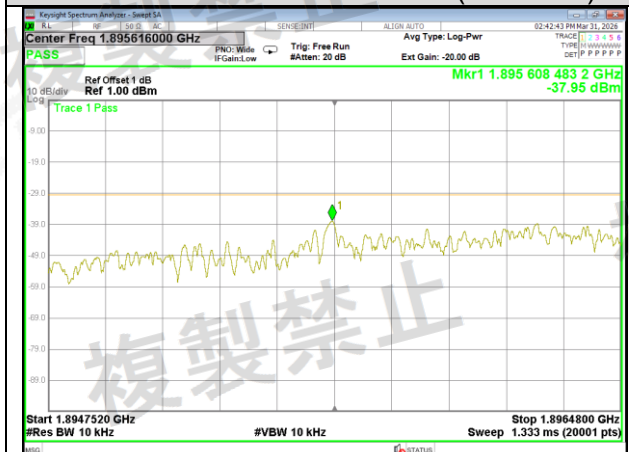


ANT 1

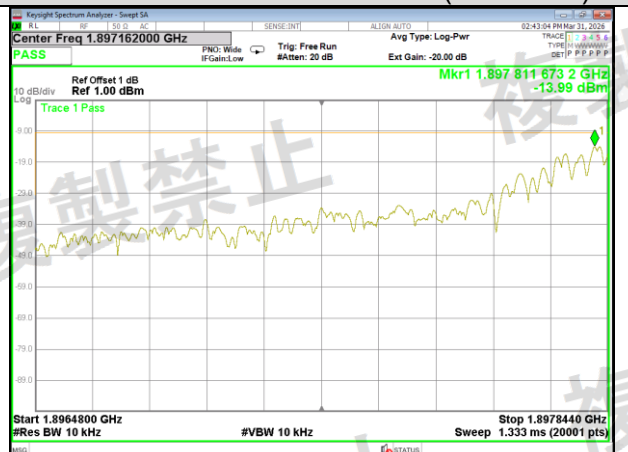




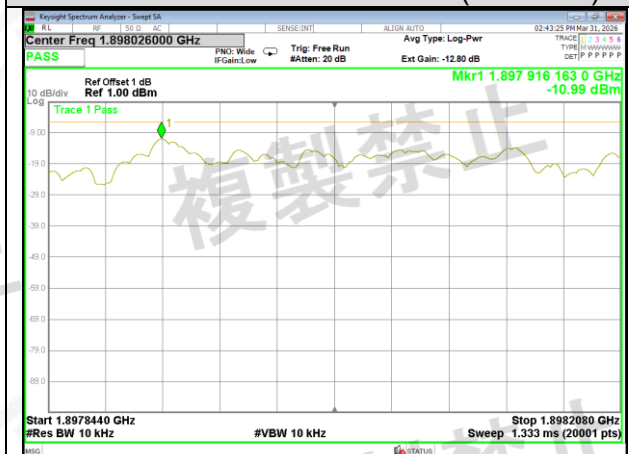
M- 1894.752MHz-1896.48MHz(Pre Scan)



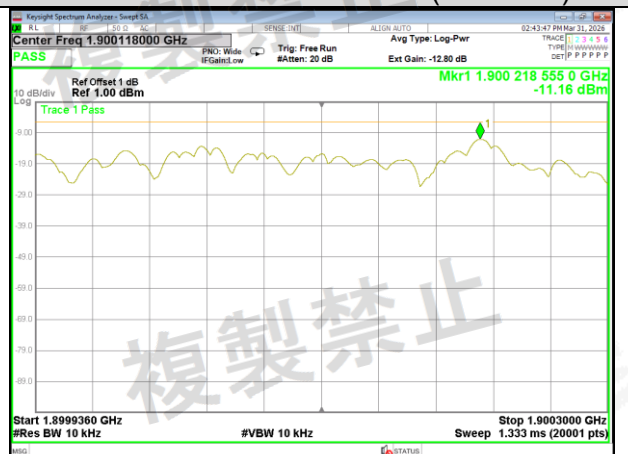
M-1894.572MHz-1897.844MHz(Pre Scan)



M-1897.844MHz-1898.208MHz(Pre Scan)



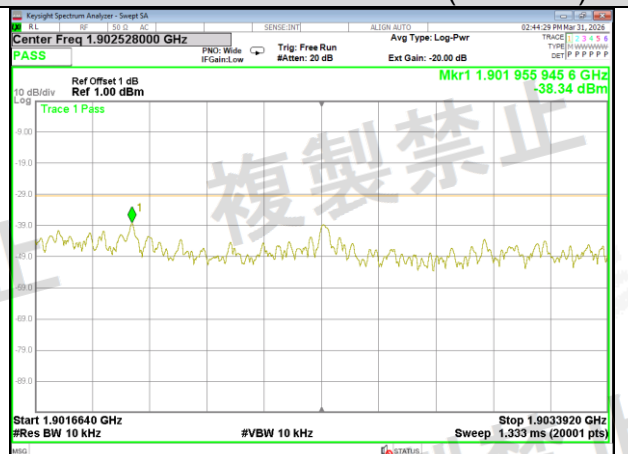
M-1899.936MHz-1900.3MHz(Pre Scan)

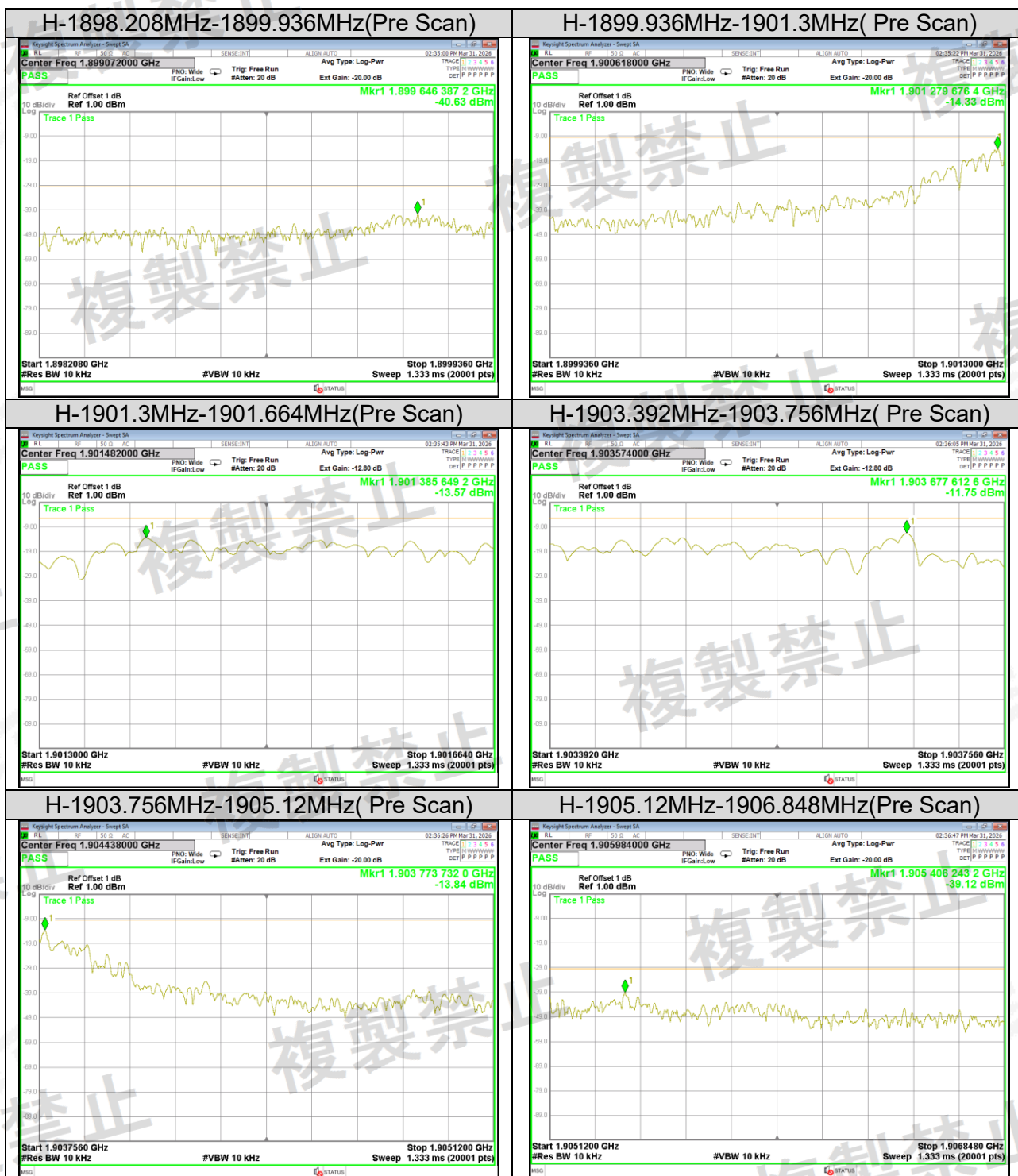


M-1900.3MHz-1901.664MHz(Pre Scan)



M-1901.664MHz-1903.392MHz(Pre Scan)







11. UNWANTED EMISSION STRENGTH

11.1 LIMIT

1891.296 - 1892.846 MHz: -36dBm/192MHz or less

1892.846 - 1893.146 MHz: -31dBm/192MHz or less

1906.100 - 1906.754 MHz: -31dBm/192MHz or less

1906.754 - 1906.848 MHz: -36dBm/192MHz or less

11.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Pre-scan :

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	30K:30K
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

RBW correction factor is 8.1dB.

Measurement of the emissions identified during the pre-scan :

Spectrum Parameter	Setting
Attenuation	Auto
Span	192KHz
RB / VB	30K:30K
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

1. Connect the EUT and base stations.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Calculate unnecessary emission power by the following formula:
$$\text{Unnecessary emission power} = (P_s/P_c) * P_b$$

Ps: Unnecessary emission power
Pc: Power of carrier
Pb: Ant power+13.8dB



11.3 TEST SETUP



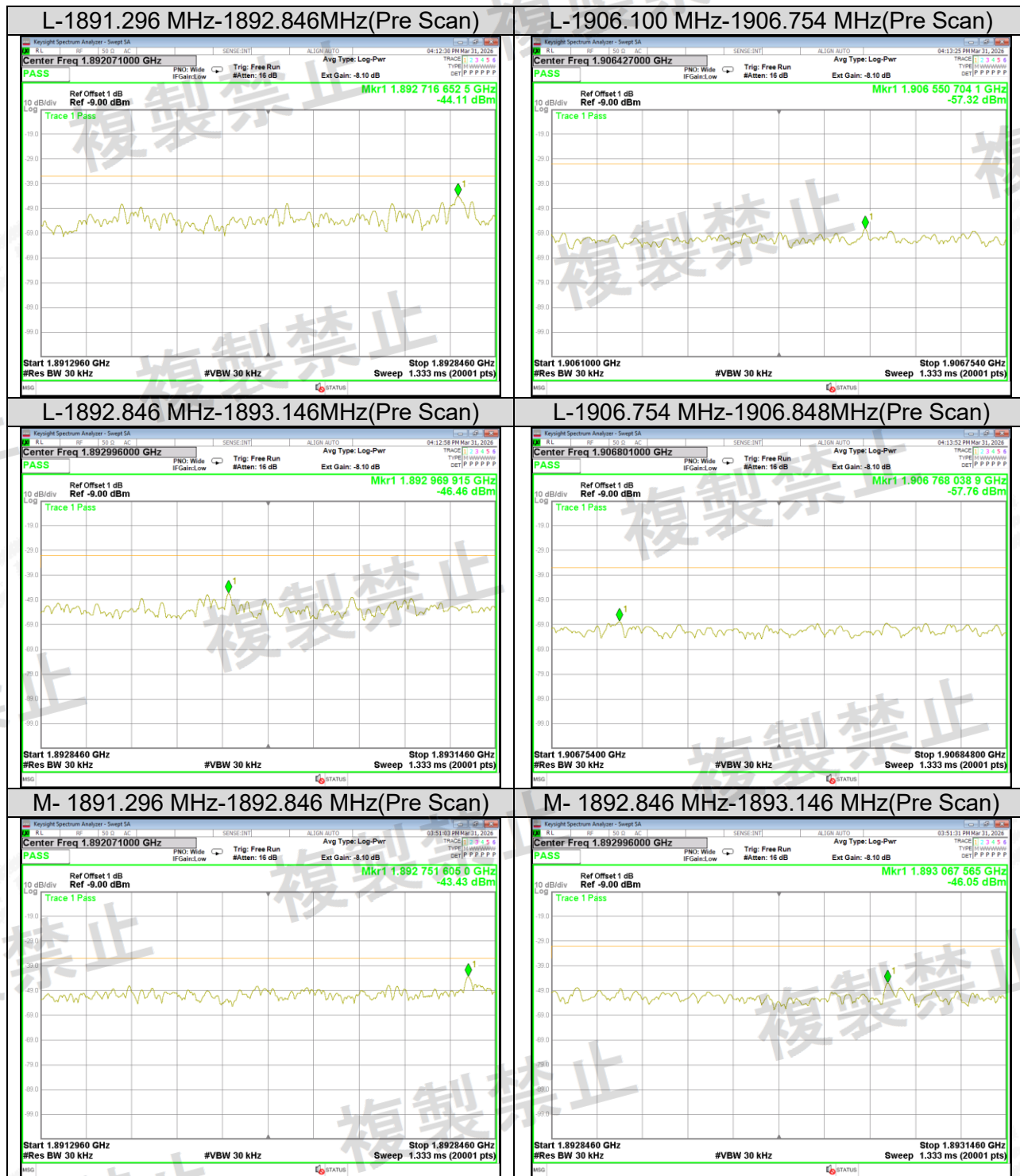
11.4 TEST DEVIATION

There is no deviation with the original standard.



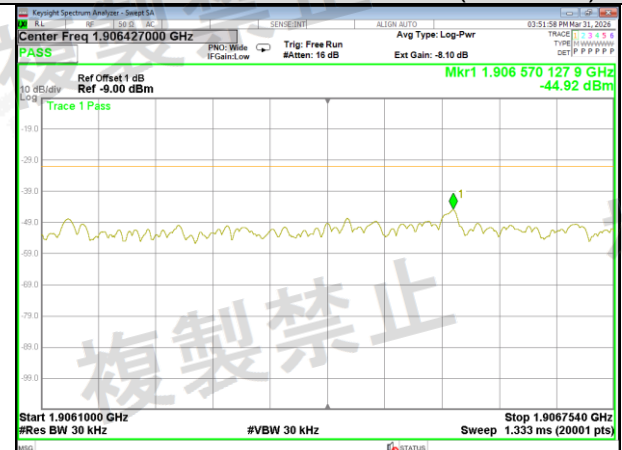
11.5 TEST RESULT

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Operation Mode:	(Nor) Voltage-(CH4, CH2, CH0)		

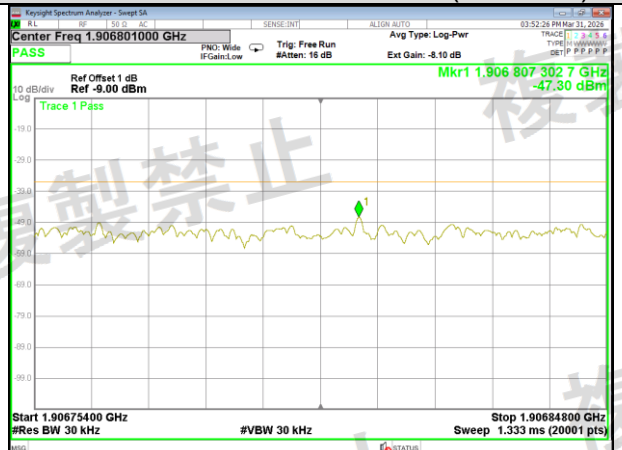
FP
ANT 0



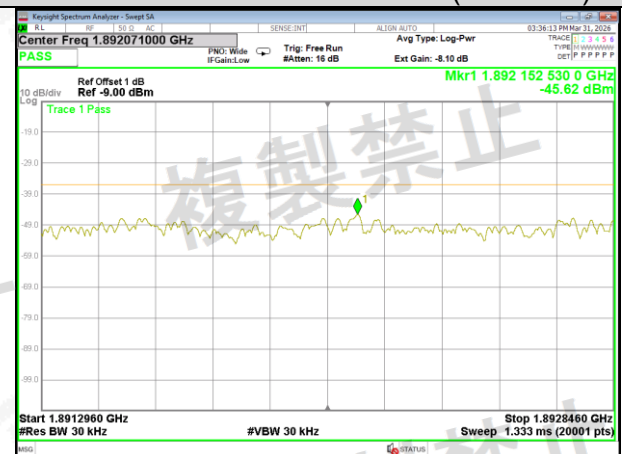
M-1906.100 MHz-1906.754MHz(Pre Scan)



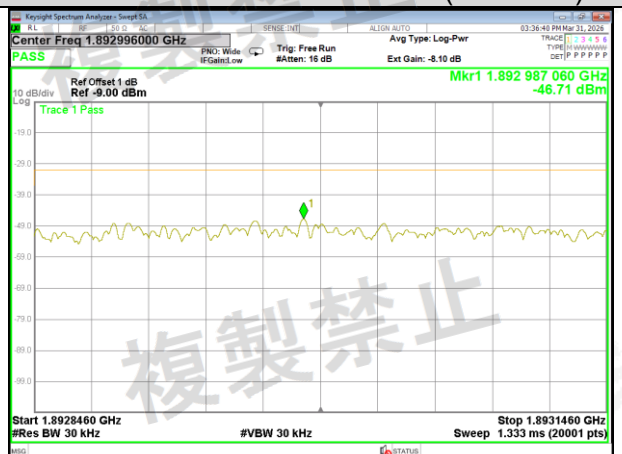
M-1906.754 MHz-1906.848MHz(Pre Scan)



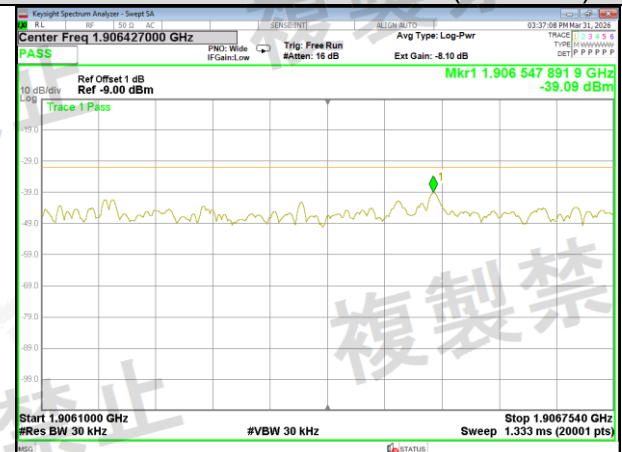
H-1891.296MHz-1892.846MHz(Pre Scan)



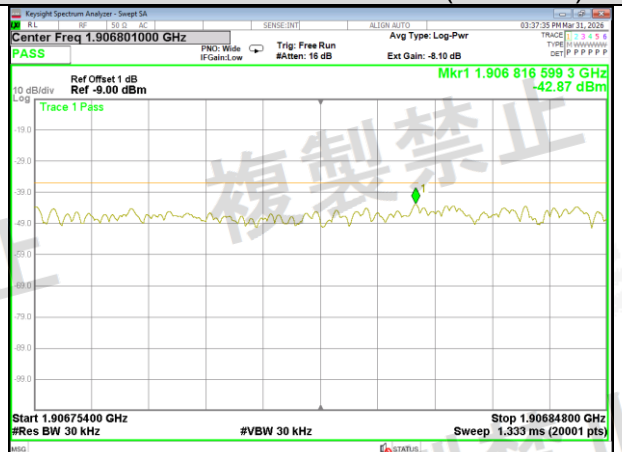
H-1892.846MHz-1893.146MHz(Pre Scan)



H-1906.100MHz-1906.754MHz(Pre Scan)

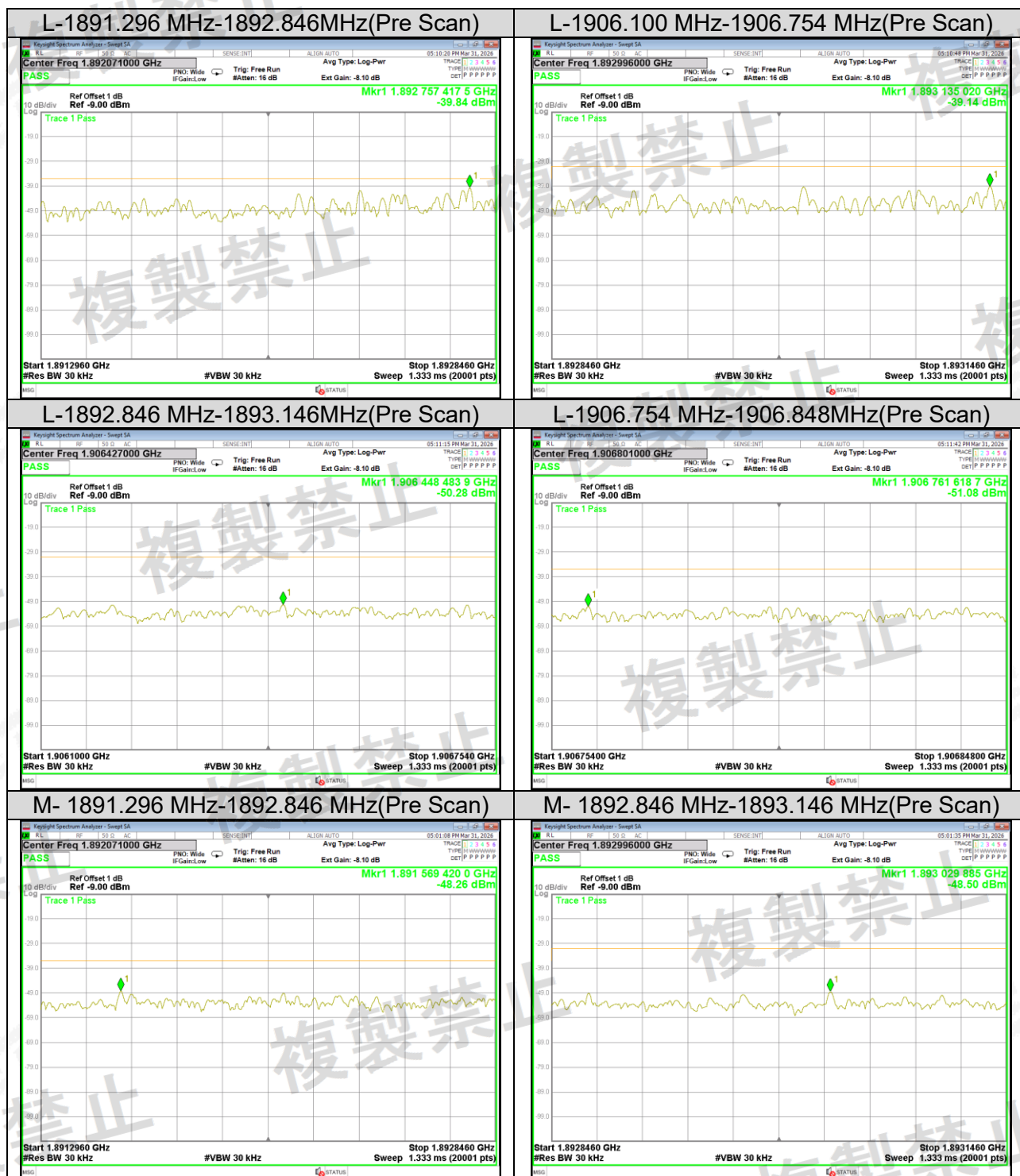


H-1906.754MHz-1906.848MHz(Pre Scan)



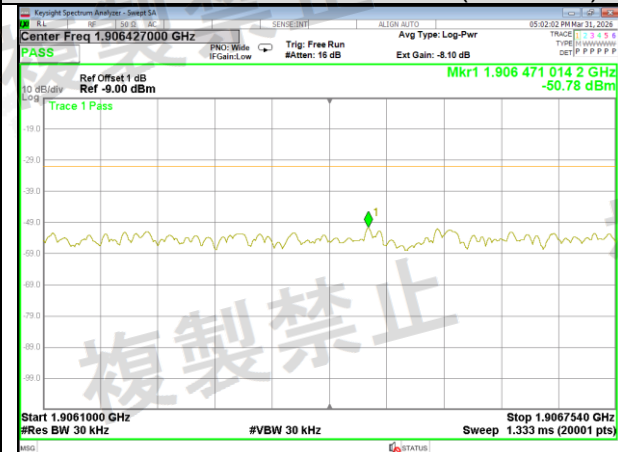


ANT 1

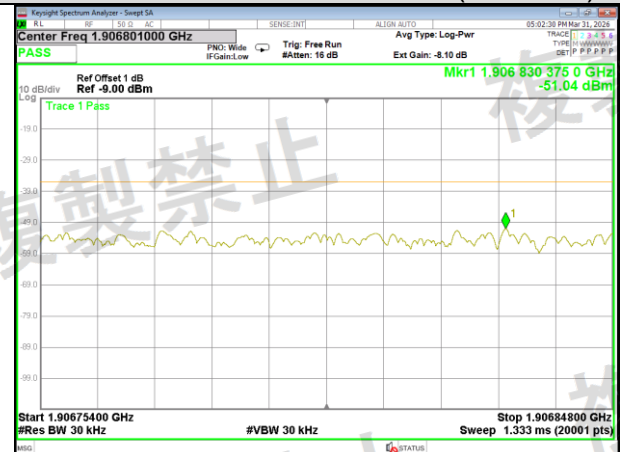




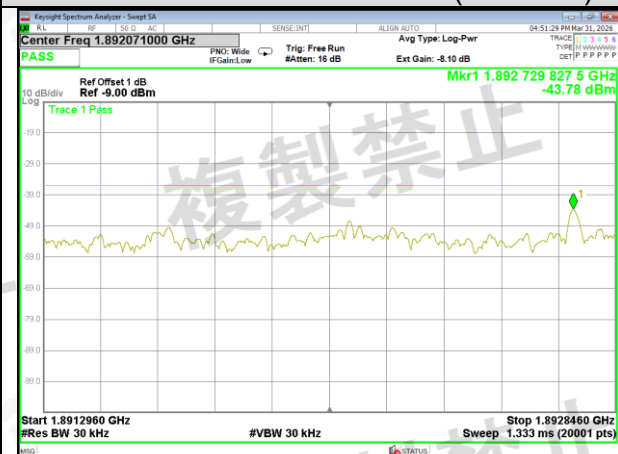
M-1906.100 MHz-1906.754MHz(Pre Scan)



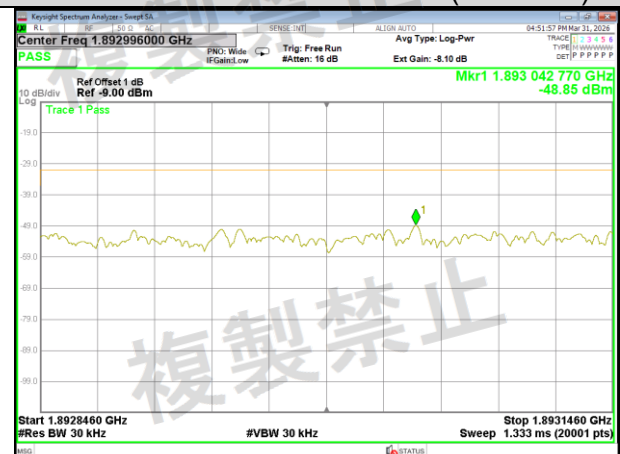
M-1906.754 MHz-1906.848MHz(Pre Scan)



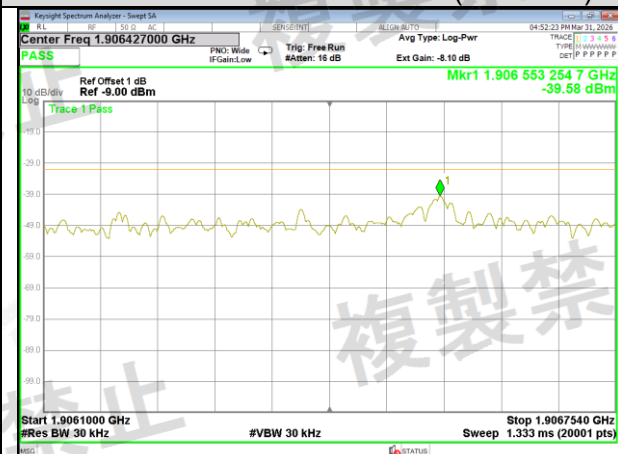
H-1891.296MHz-1892.846MHz(Pre Scan)



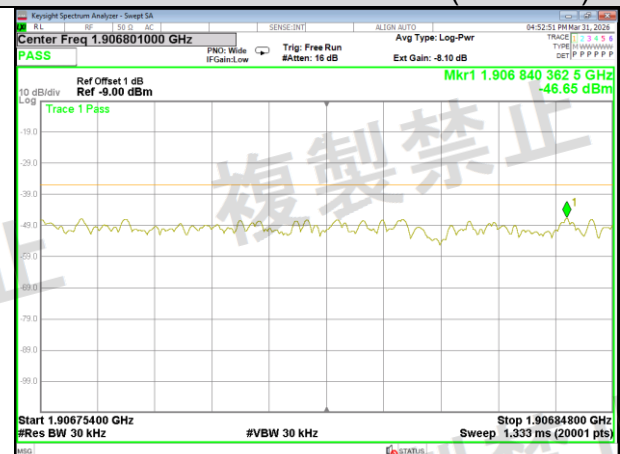
H-1892.846MHz-1893.146MHz(Pre Scan)



H-1906.100MHz-1906.754MHz(Pre Scan)



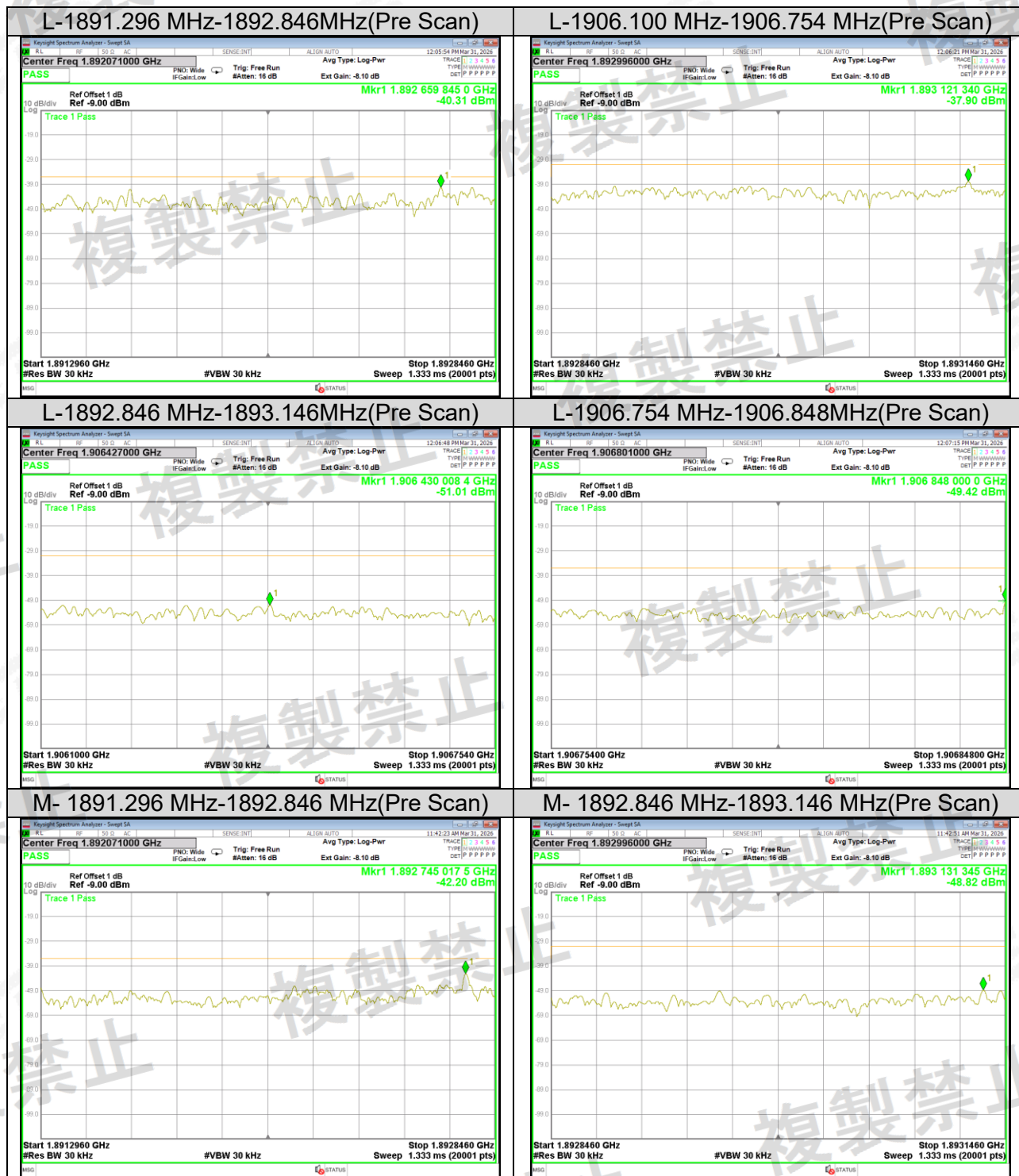
H-1906.754MHz-1906.848MHz(Pre Scan)





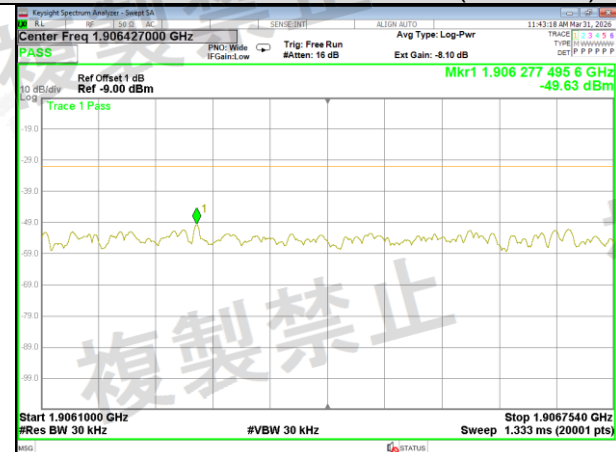
PP

ANT 0

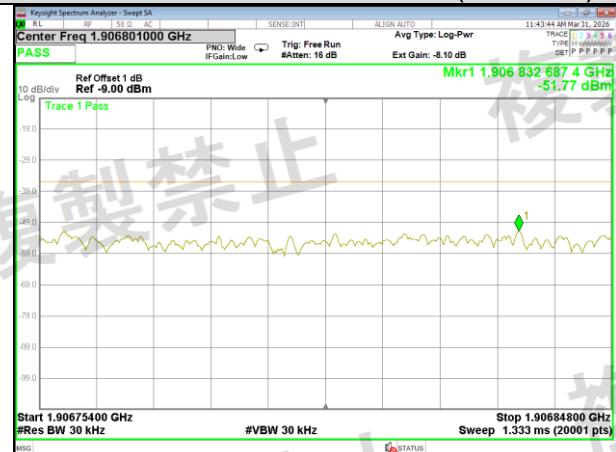




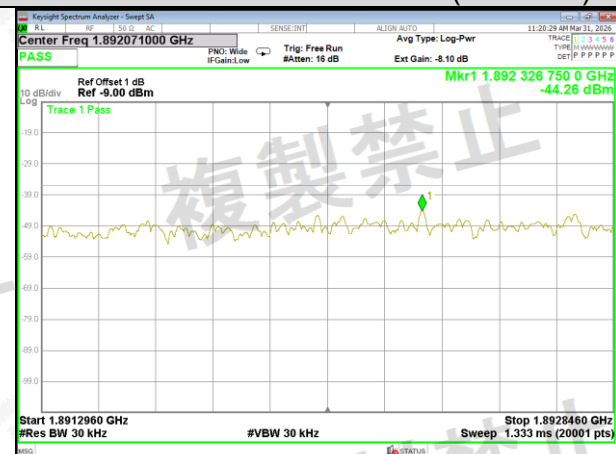
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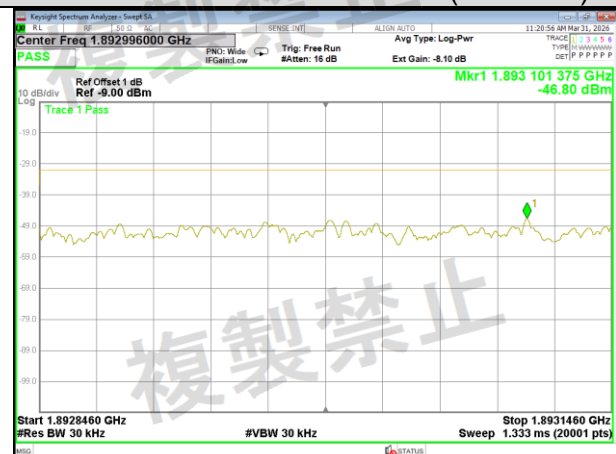
M-1906.754 MHz-1906.848MHz(Pre Scan)



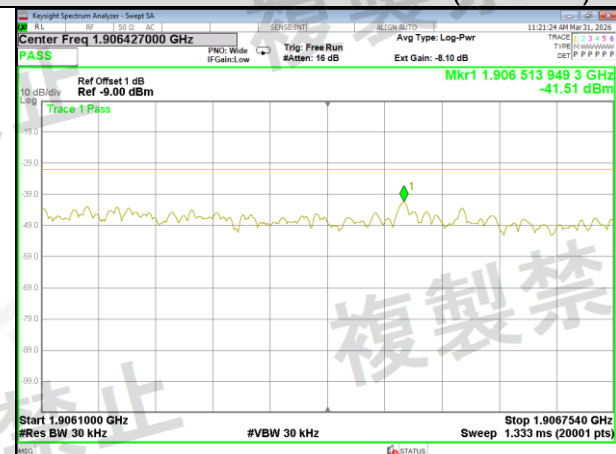
H-1891.296MHz-1892.846MHz(Pre Scan)



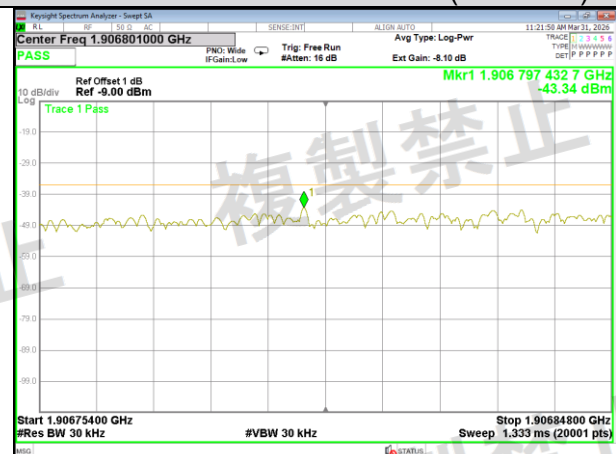
H-1892.846MHz-1893.146MHz(Pre Scan)



H-1906.100MHz-1906.754MHz(Pre Scan)

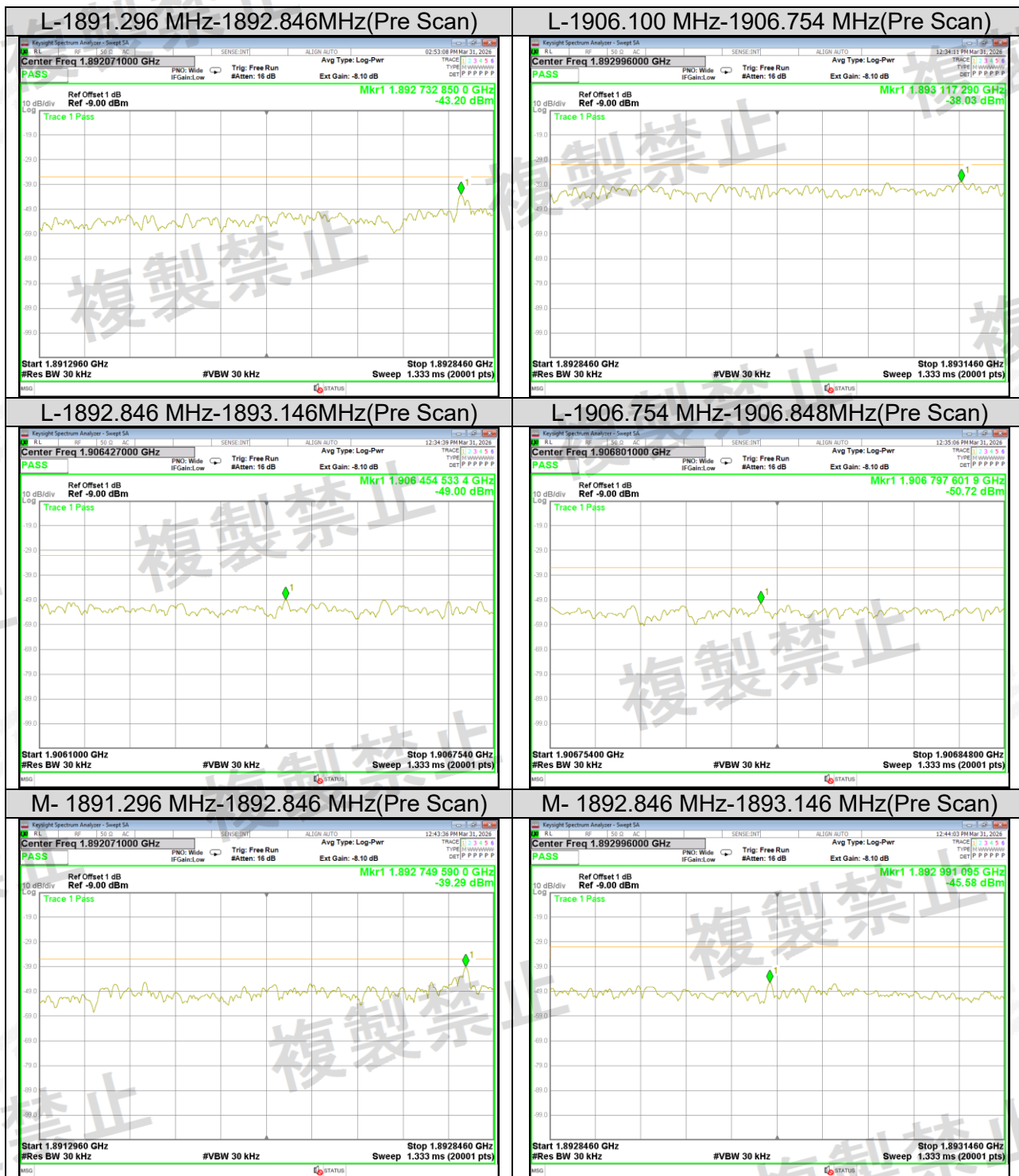


H-1906.754MHz-1906.848MHz(Pre Scan)



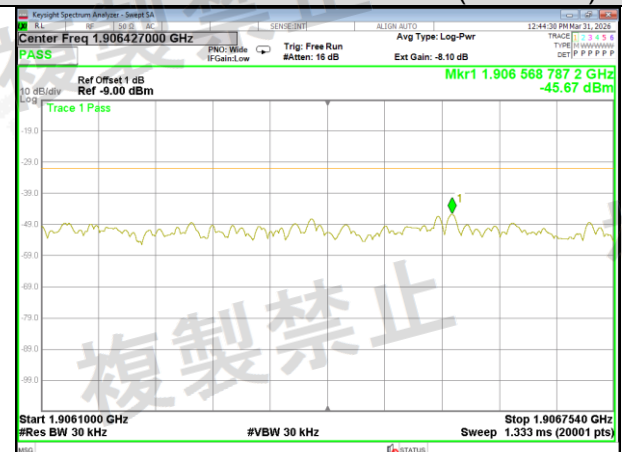


ANT 1

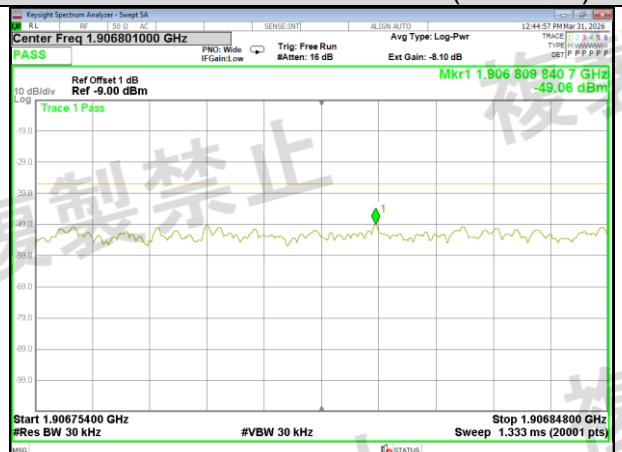




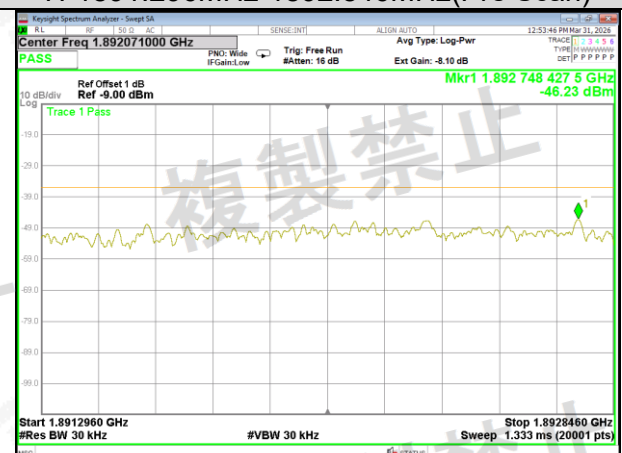
M-1906.100 MHz-1906.754MHz(Pre Scan)



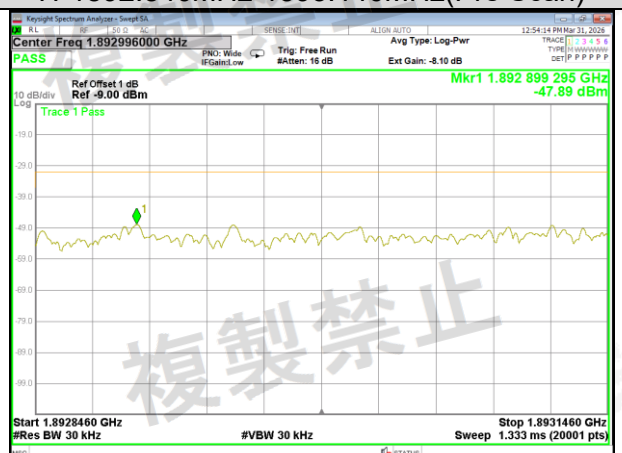
M-1906.754 MHz-1906.848MHz(Pre Scan)



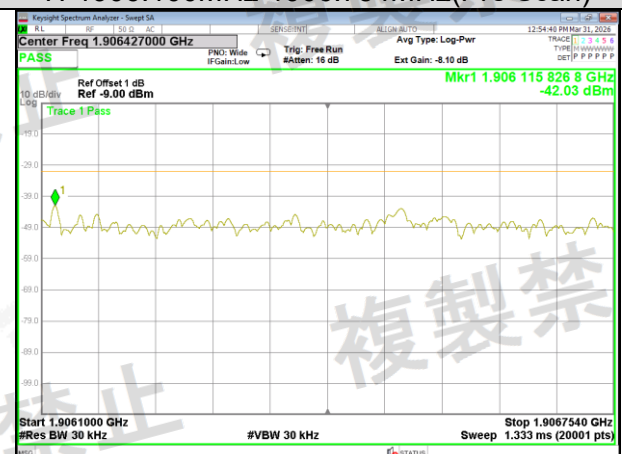
H-1891.296MHz-1892.846MHz(Pre Scan)



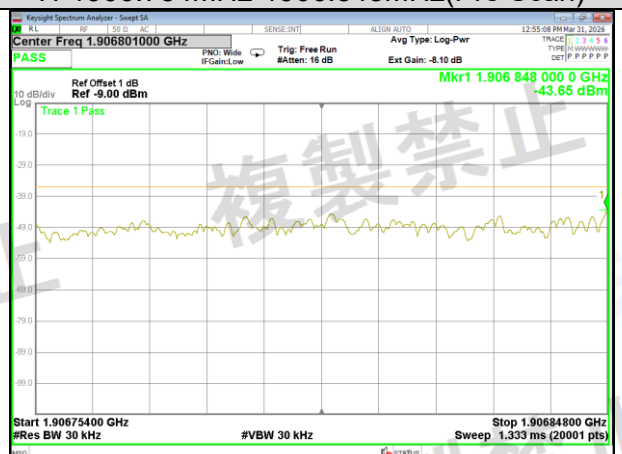
H-1892.846MHz-1893.146MHz(Pre Scan)



H-1906.100MHz-1906.754MHz(Pre Scan)



H-1906.754MHz-1906.848MHz(Pre Scan)



12. RECEIVER RADIATED EMISSIONS

12.1 LIMIT

Item	Limits
RX Spurious Emission	$\leq 2\text{nW}$ (30MHz to 1GHz)
	$\leq 20\text{nW}$ (1GHz to 1893.5MHz)
	$\leq 2\text{nW}$ (1893.55 MHz to 1906.05MHz)
	$\leq 0.06\text{nW}$ (1893.515 MHz to 1906.085MHz)
	$\leq 20\text{nW}$ (1906.1 MHz to 12.75 GHz)

12.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter		Setting
Attenuation		Auto
RB/VB	30MHz to 1GHz	100K:100K
	1GHz to 1893.5MHz	100K:100K
	1893.55 MHz to 1906.05MHz	1M:1M
	1893.515 MHz to 1906.085MHz	30K:100K
	1906.1 MHz to 12.75 GHz	100K:100K
Detector		Peak
Trace		Max Hold
Sweep Time		Auto

1. Connect the EUT and base stations.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as:Sweep time: Auto,Sweep Mode: Continuous sweep / Detect mode: Positive peak,Trace mode: Max hold

12.3 TEST SETUP



12.4 TEST DEVIATION

There is no deviation with the original standard.

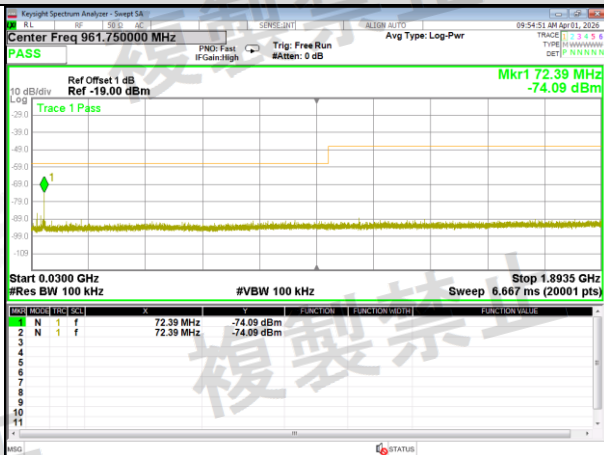


12.5 TEST RESULT

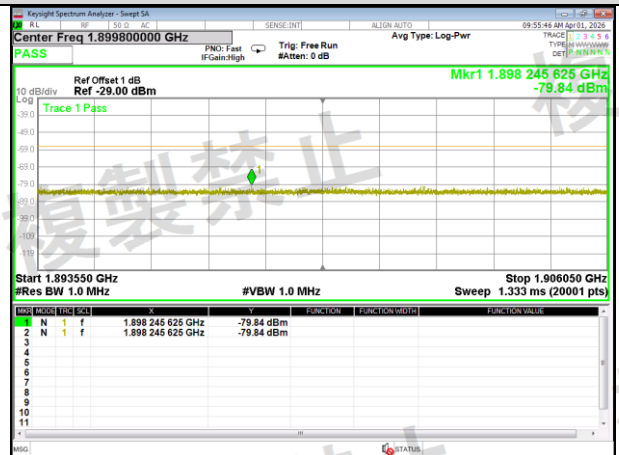
Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 % RH		
Operation Mode:	(Nor) Voltage-(CH4, CH2, CH0)/FP		

FP
ANT 0

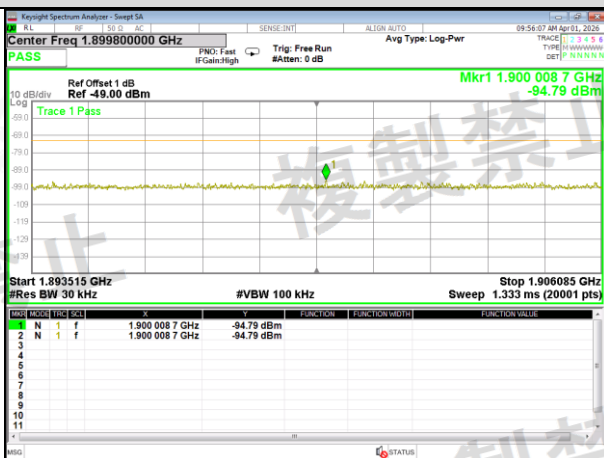
L-30M-1893.5MHz



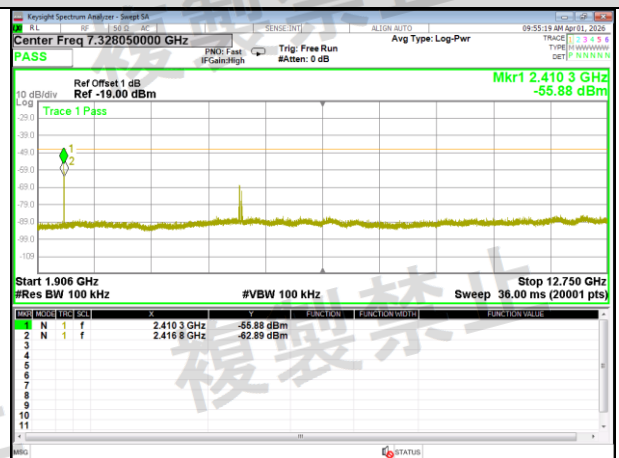
L-1893.55MHz-1906.05MHz



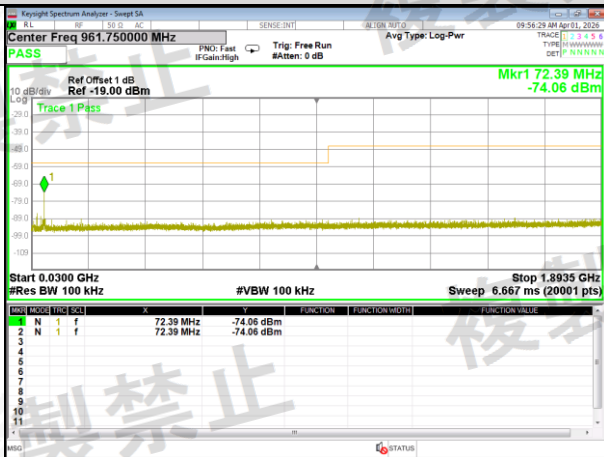
L-1893.515MHz-1906.085MHz



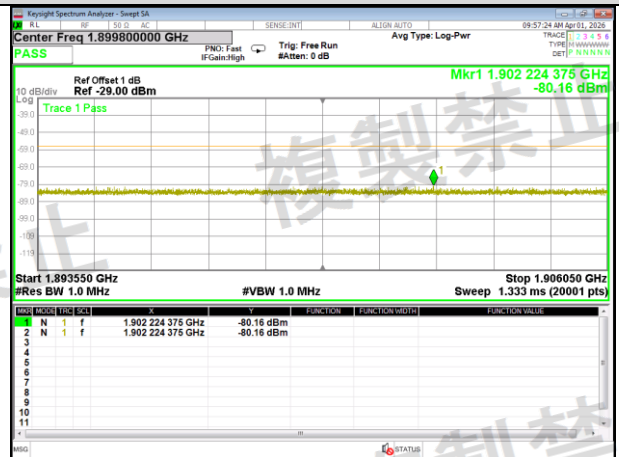
L-1906.1MHz-12.75GHz



M-30M-1893.5MHz



M-1893.55MHz-1906.05MHz

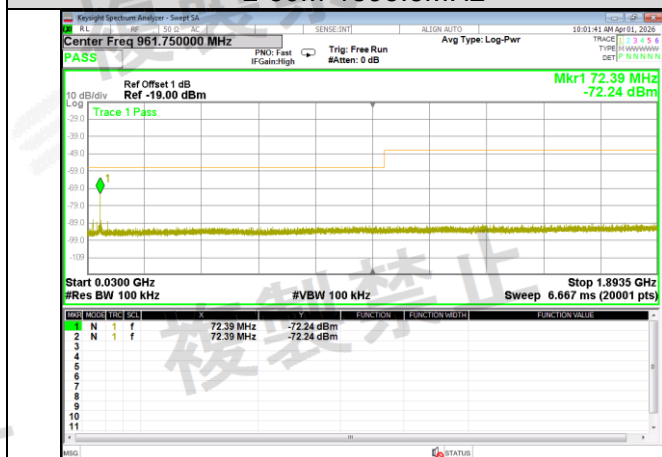




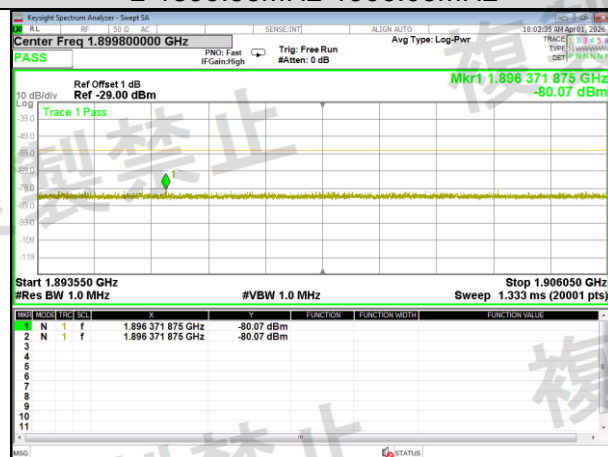


ANT 1

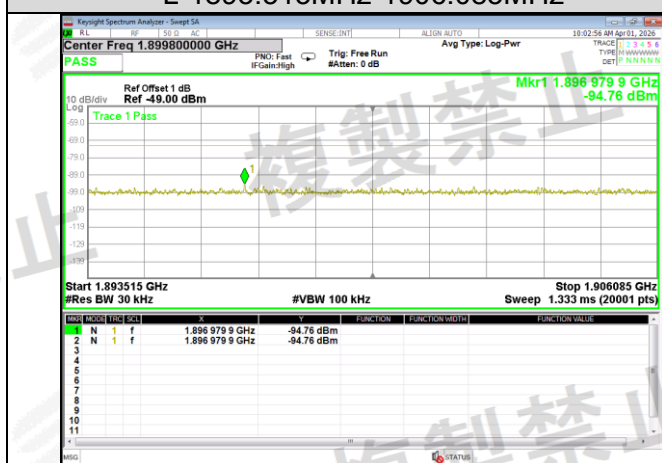
L-30M-1893.5MHz



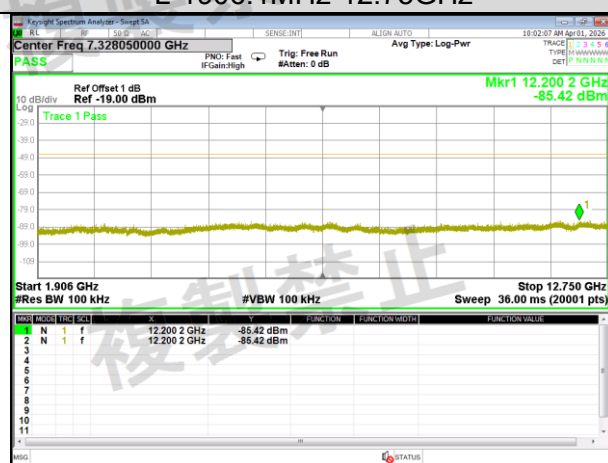
L-1893.55MHz-1906.05MHz



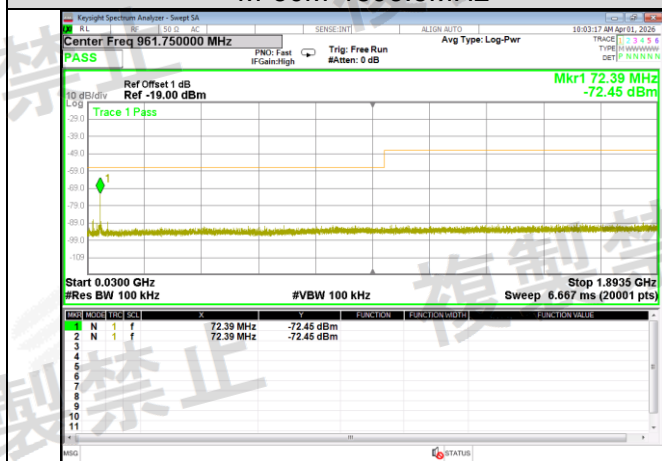
L-1893.515MHz-1906.085MHz



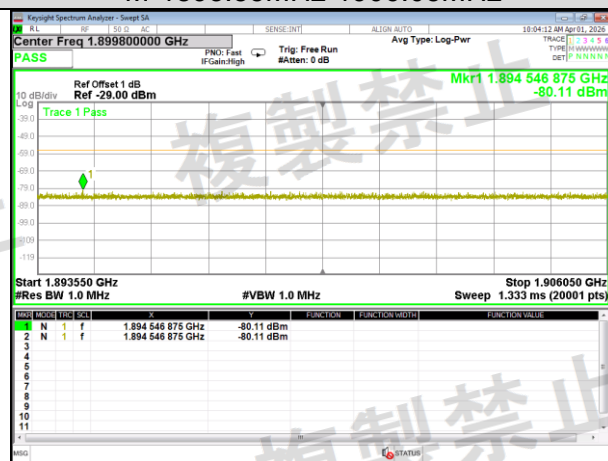
L-1906.1MHz-12.75GHz

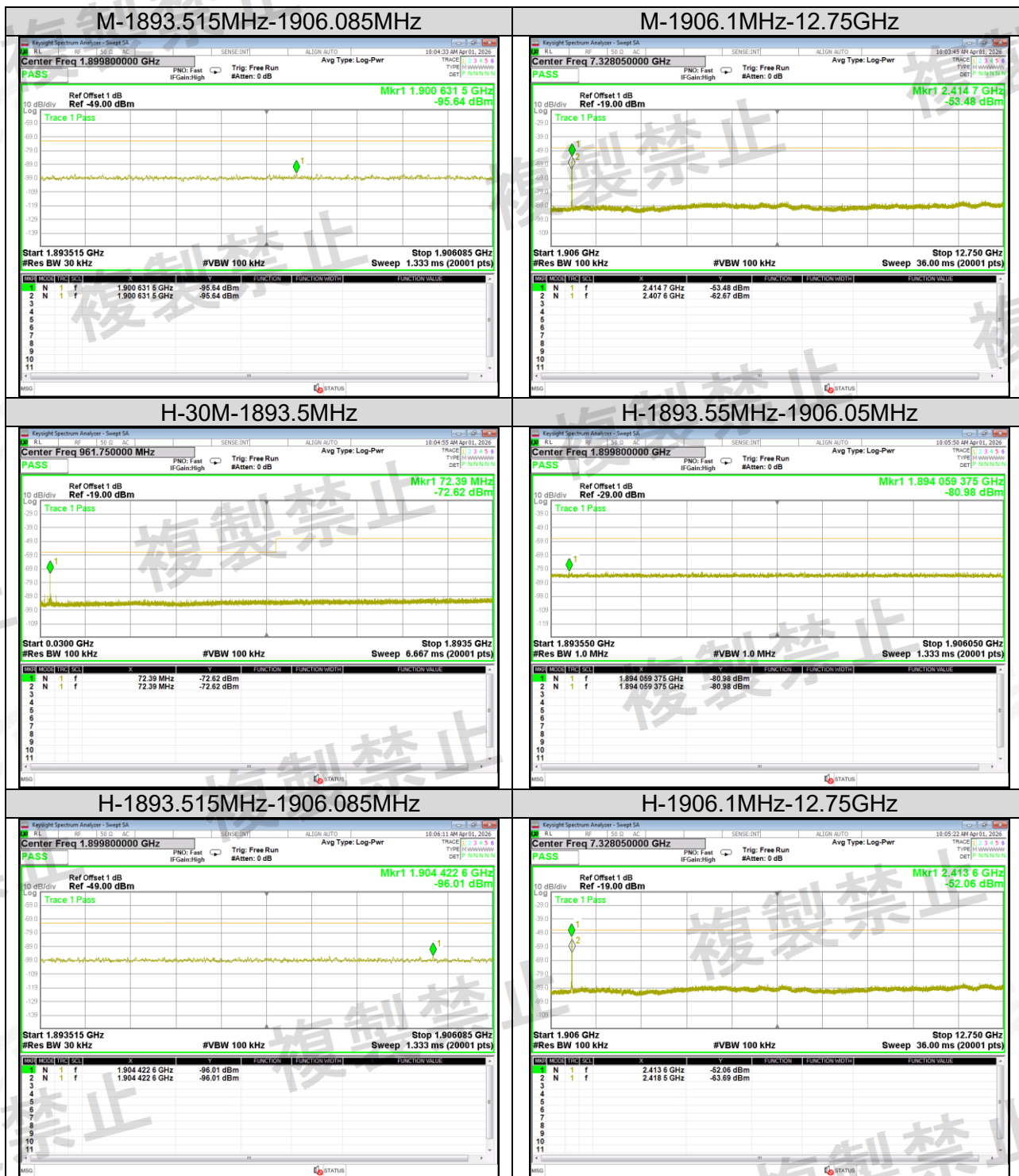


M-30M-1893.5MHz



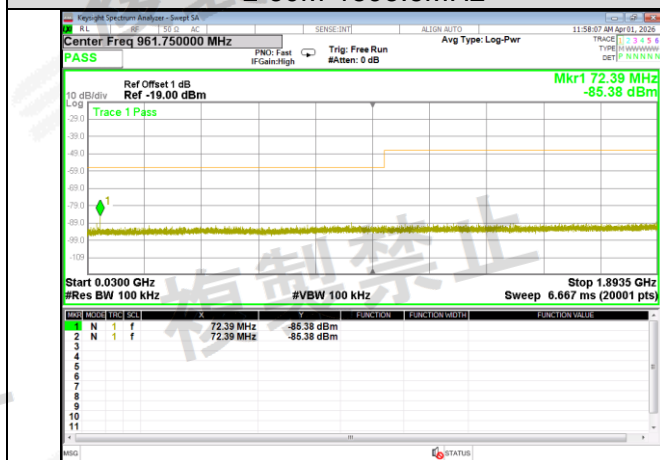
M-1893.55MHz-1906.05MHz



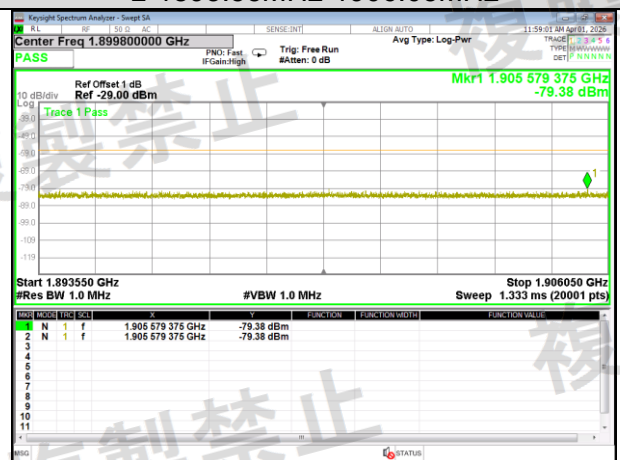


PP
ANT 0

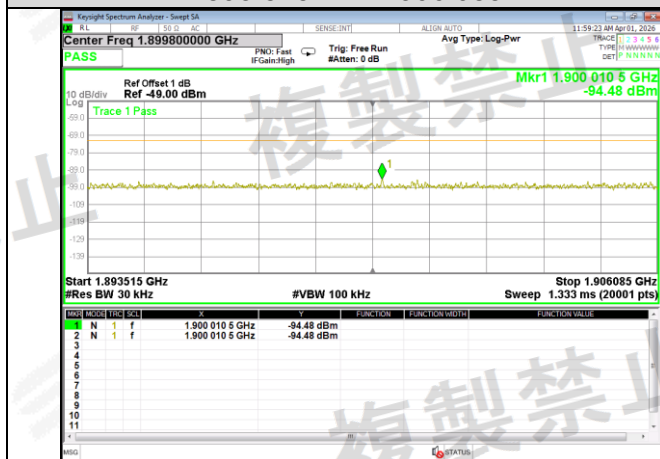
L-30M-1893.5MHz



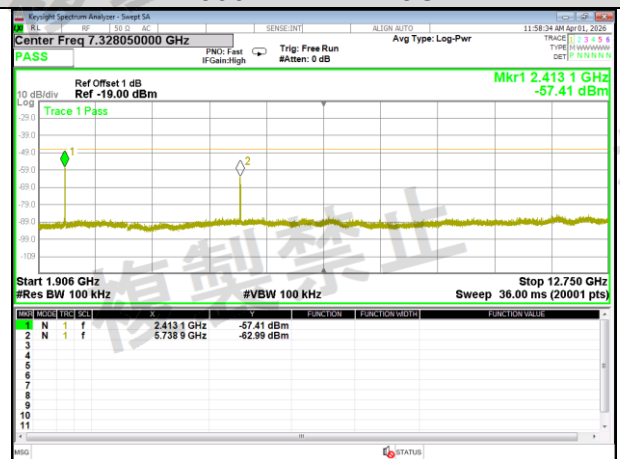
L-1893.55MHz-1906.05MHz



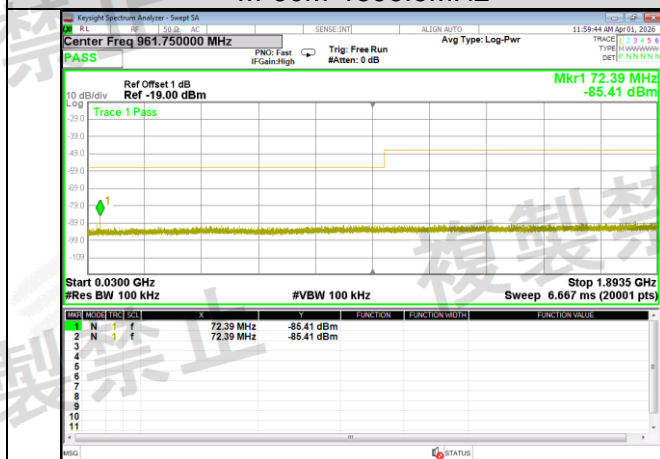
L-1893.515MHz-1906.085MHz



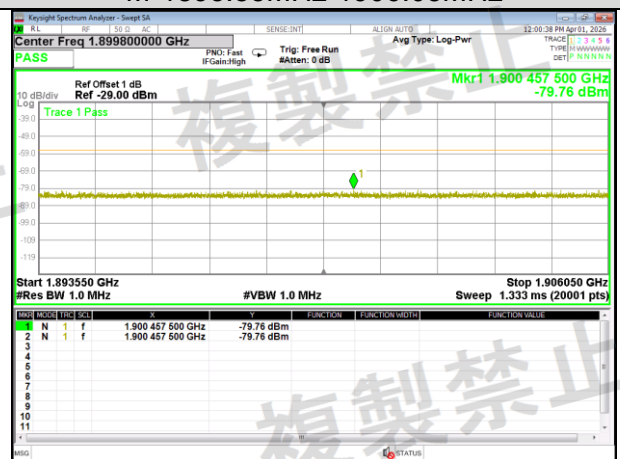
L-1906.1MHz-12.75GHz

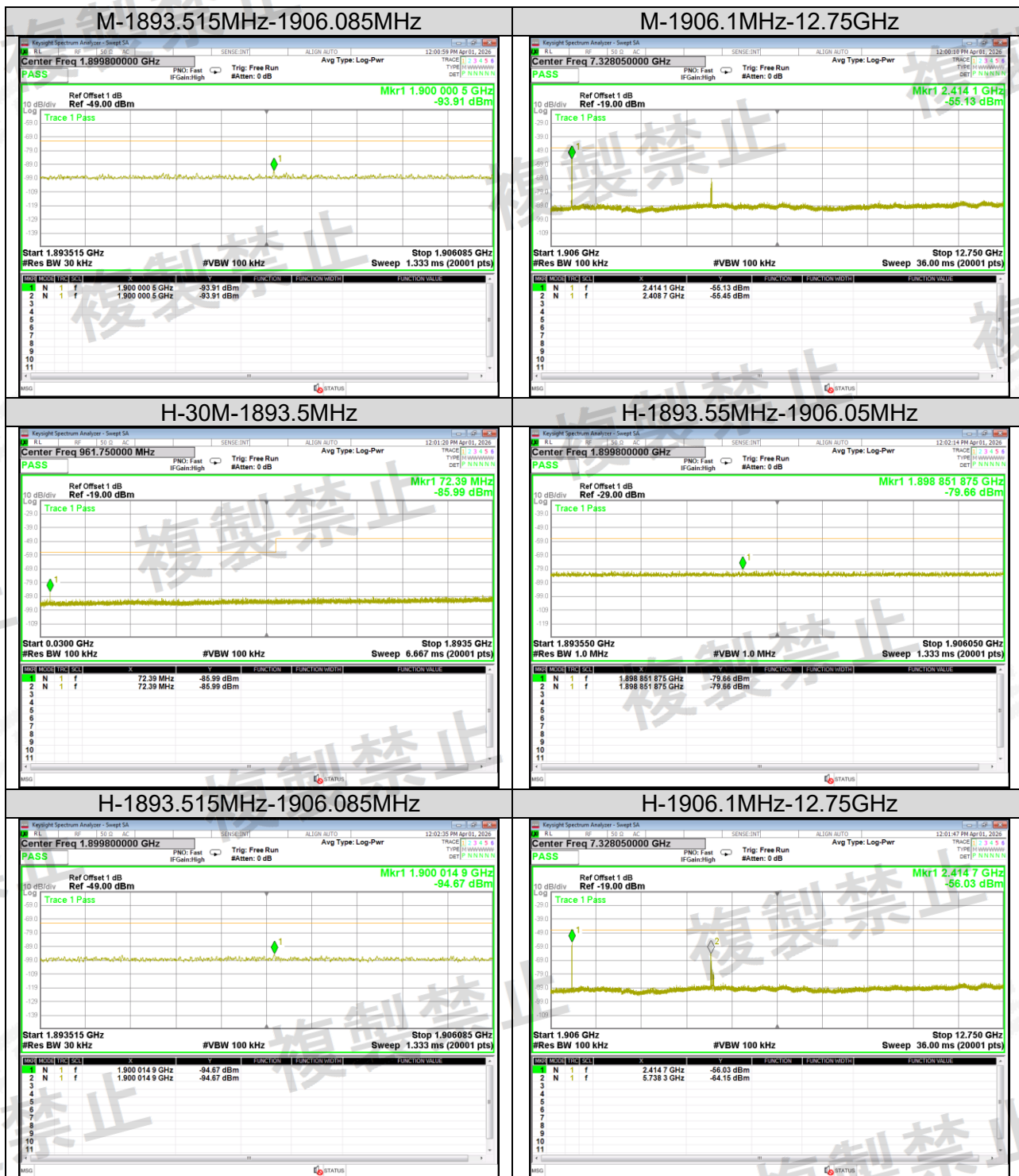


M-30M-1893.5MHz



M-1893.55MHz-1906.05MHz

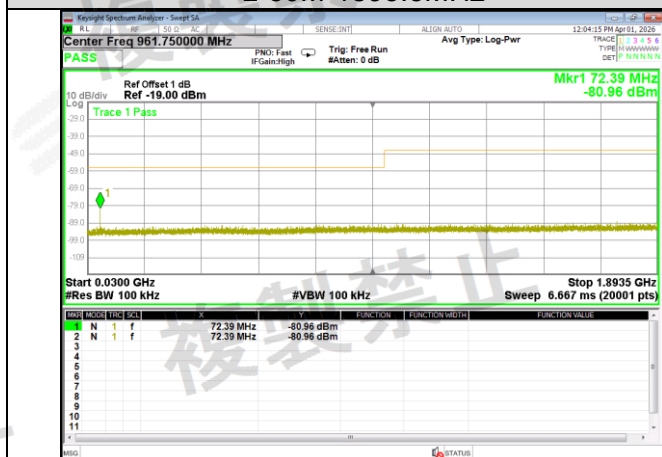




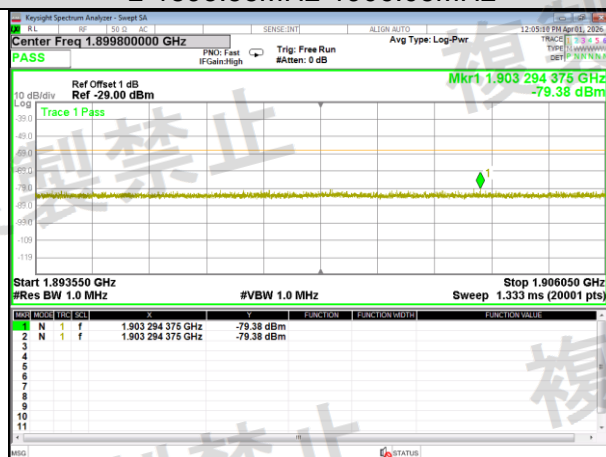


ANT 1

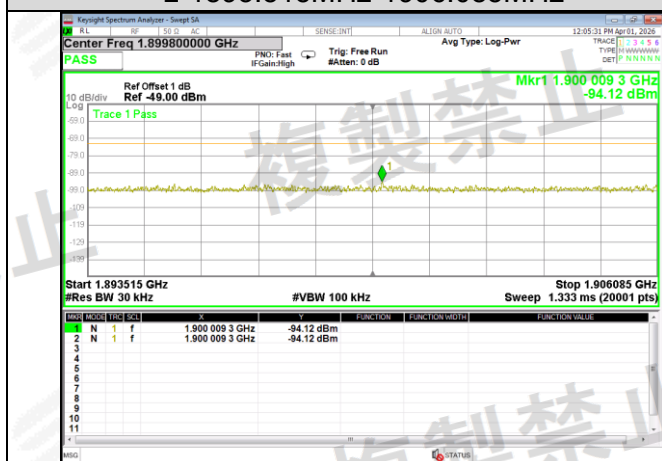
L-30M-1893.5MHz



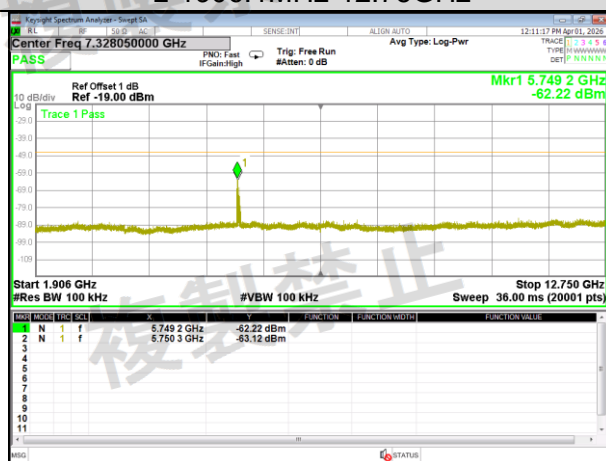
L-1893.55MHz-1906.05MHz



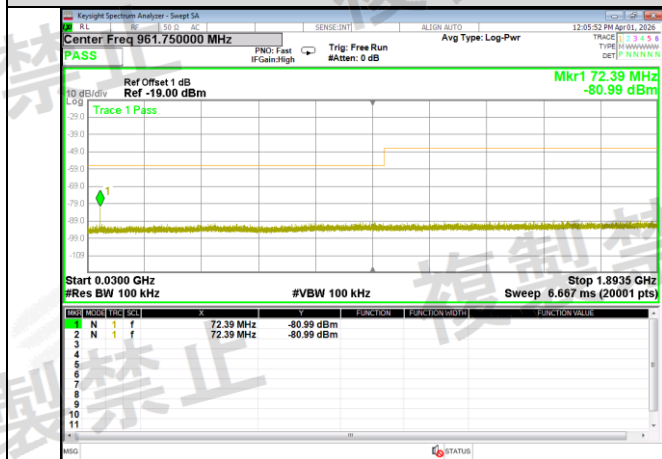
L-1893.515MHz-1906.085MHz



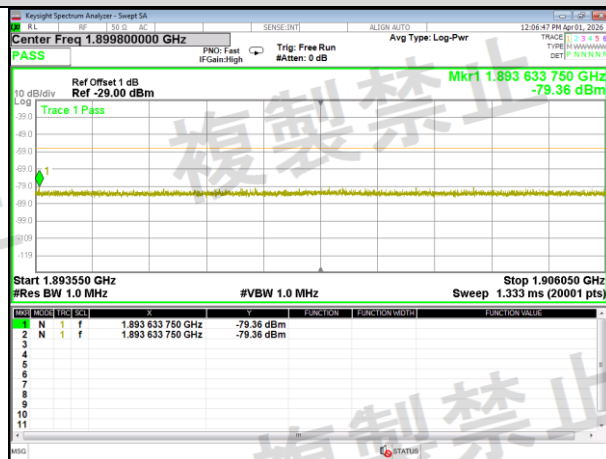
L-1906.1MHz-12.75GHz

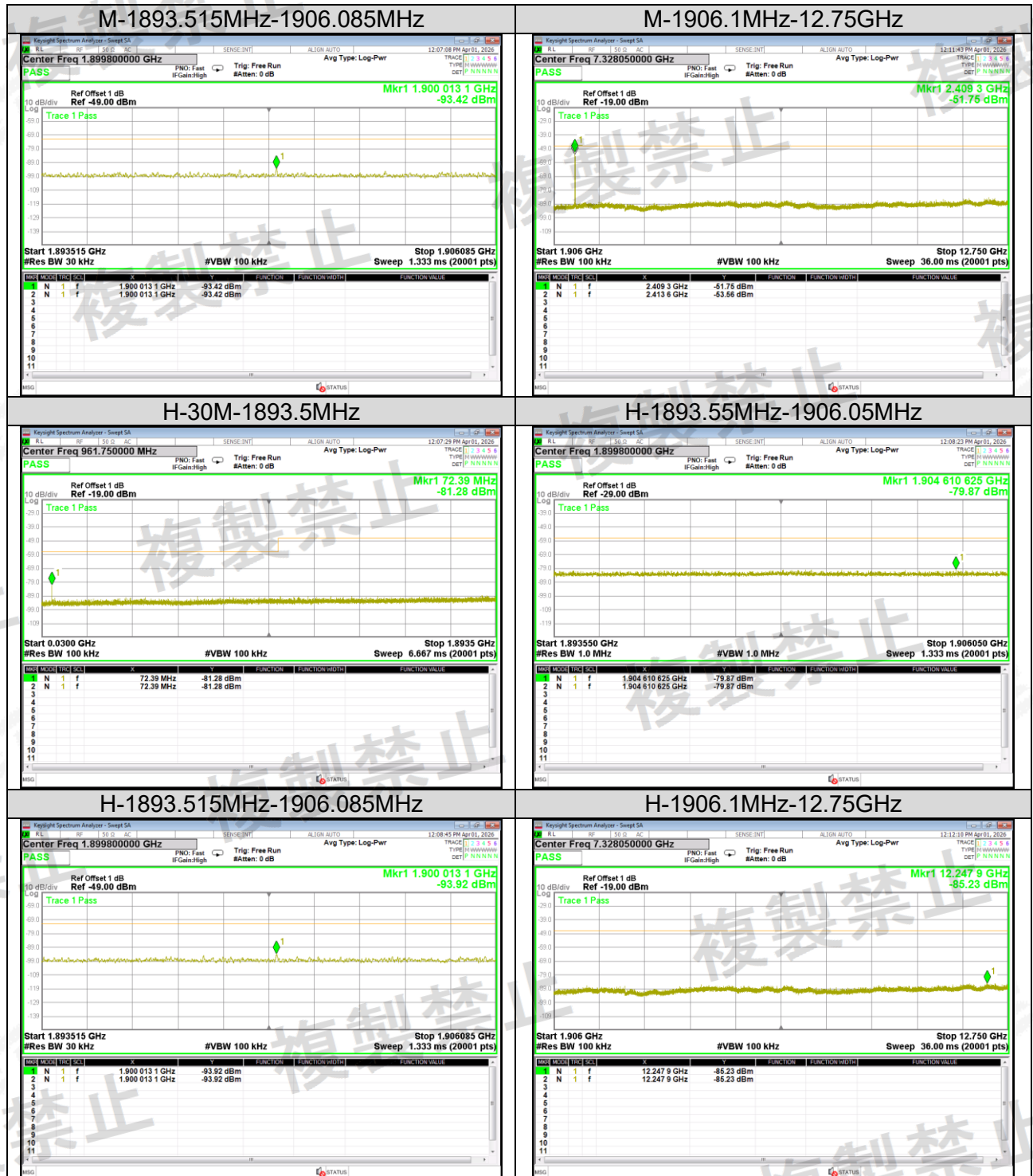


M-30M-1893.5MHz



M-1893.55MHz-1906.05MHz





13. INTERFERENCE AVOIDANCE

13.1 LIMIT

Item	Limits
Identification code	≥ 1152 kbit/s

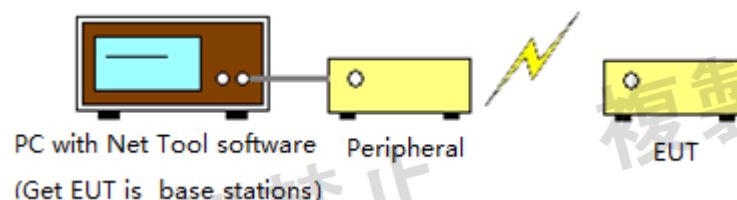
13.2 MEASURING ID CODE SOFTWARE

Item	Limits
IP List	Scan

13.3 TEST PROCEDURES

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes from EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
 - a. Transmit the predetermined identification codes from the counterpart.
 - b. Check if 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 identification codes are different from the predetermined ones.

13.4 TEST SETUP



13.5 TEST DEVIATION

There is no deviation with the original standard.

13.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

13.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 % RH		
Test result:	CONFORM		

Note: Represent the value of ANT 0/1 channel antenna meets the requirements.

14. TRANSMISSION RATE OF MODULATION SIGNAL

14.1 LIMIT

Article 2 Paragraph 1 of Item 21-2, annex 81

Station for DECT Cordless Phone

Circuit Switch: 1152 kbit/s

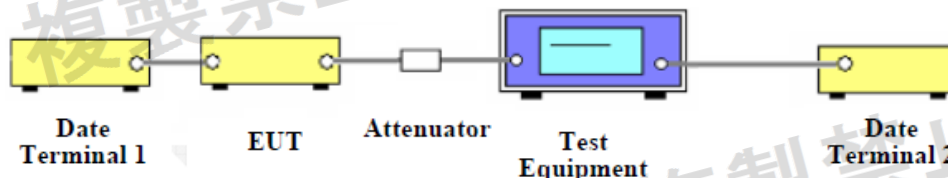
Packet Switch: 1152 kbit/s

Note:

* For the radio equipment whose spread code speed is 1152 kbit/s, the antenna power shall be 10 dBm (with 1 mW regarded as 0 dB) or lower, and the absolute gain of the antenna power shall be 4 dB or lower.

For radio equipment transmitting radio signals at frequencies greater than 1,895.616 MHz but no more than 1,902.528 MHz with a spread code speed of 1.152 megachips/s or 6.912 megachips/s, the equivalent isotropically radiated power shall be 24 dB (with 1 mW regarded as 0 dB) or lower

14.2 TEST SETUP



14.3 TEST PROCEDURES

1. Set the EUT at the test frequency and transmitting in normal operation condition
2. The external test equipment shall be able to connect test equipment, data terminal shall be able to send and receive data to external test equipment or test equipment
3. Transmitting data from the data terminal 1 to the data terminal 2, measure the data transmission speed

14.4 TEST RESULT

Transmission Type	Data Rate	Test Result
Circuit Switch	1152kbps	Pass
Packet Switch	1152kbps	Pass

15. CARRIER SENSE CAPABILITY

15.1 INTERFERENCE PREVENTION FUNCTION

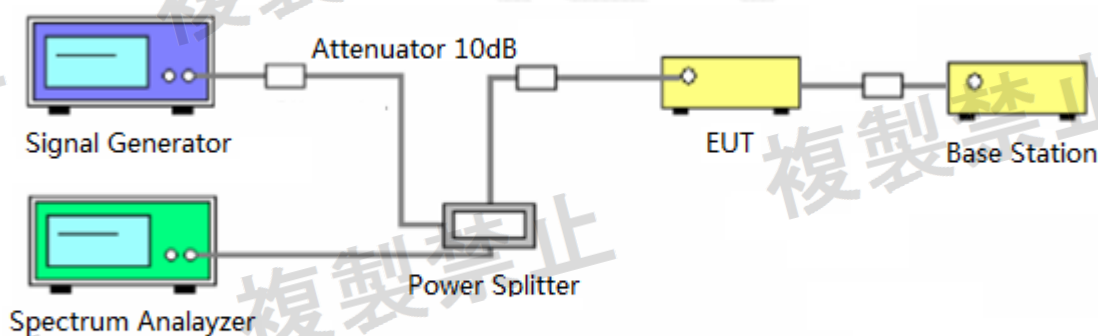
15.2 TEST REQUIREMENT

Article 2 Paragraph 1 of Item 21-2, annex 81

15.3 TEST PROCEDURE

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on -82dBm)(G is the antenna gain,f is the test frequency).
2. Turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA:RBW/VBW=1MHz/1MHz,Span=0MHz,Sweep time=auto,Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous

❖ Measurement System Diagram



❖ Conditions of Application Equipment (EUT)

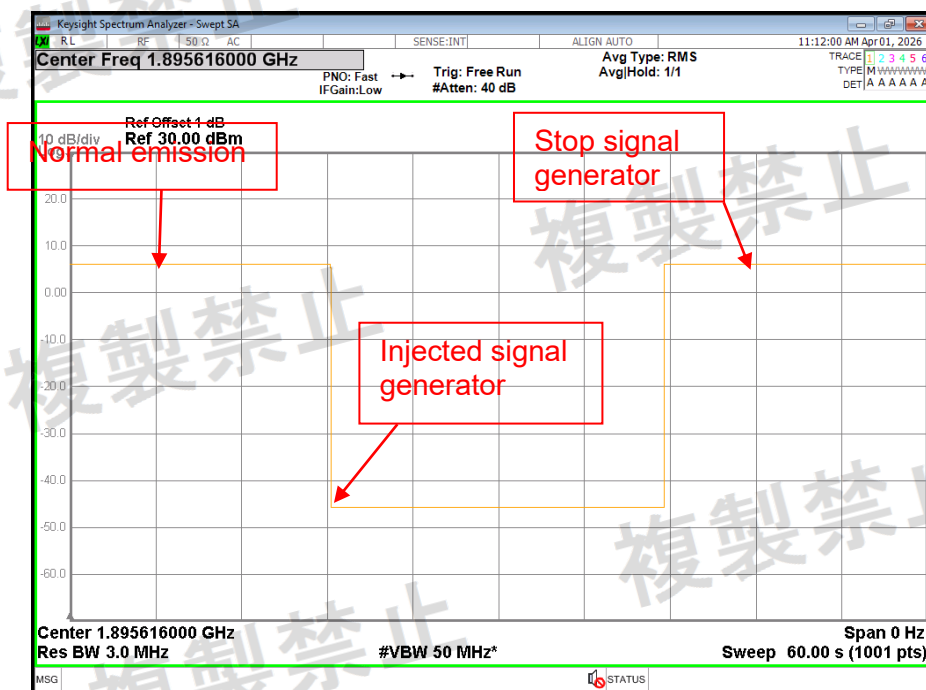


15.4 TEST RESULT

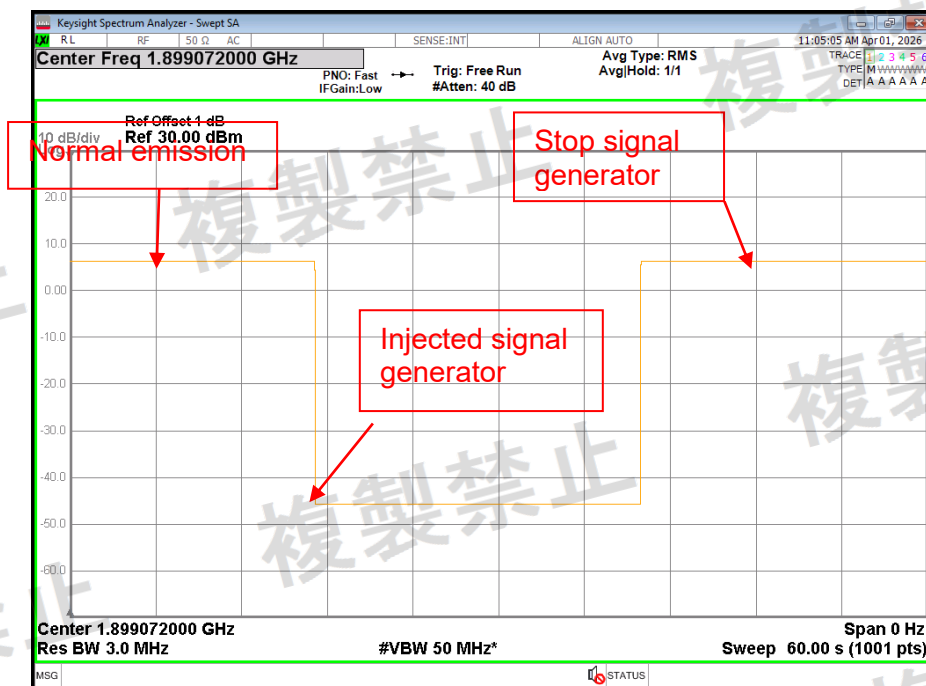
Temperature:	25°C	Pressure:	1012 hPa
Humidity:	55 %		
Test result:	CONFORM		

FP
ANT 0

1895.616MHz Pon

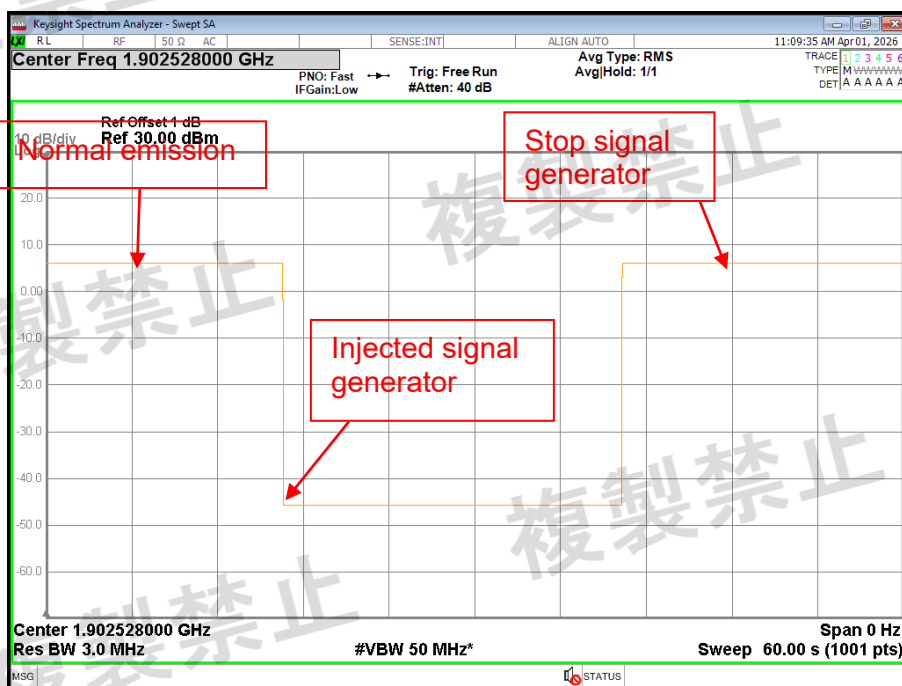


1899.072MHz Pon



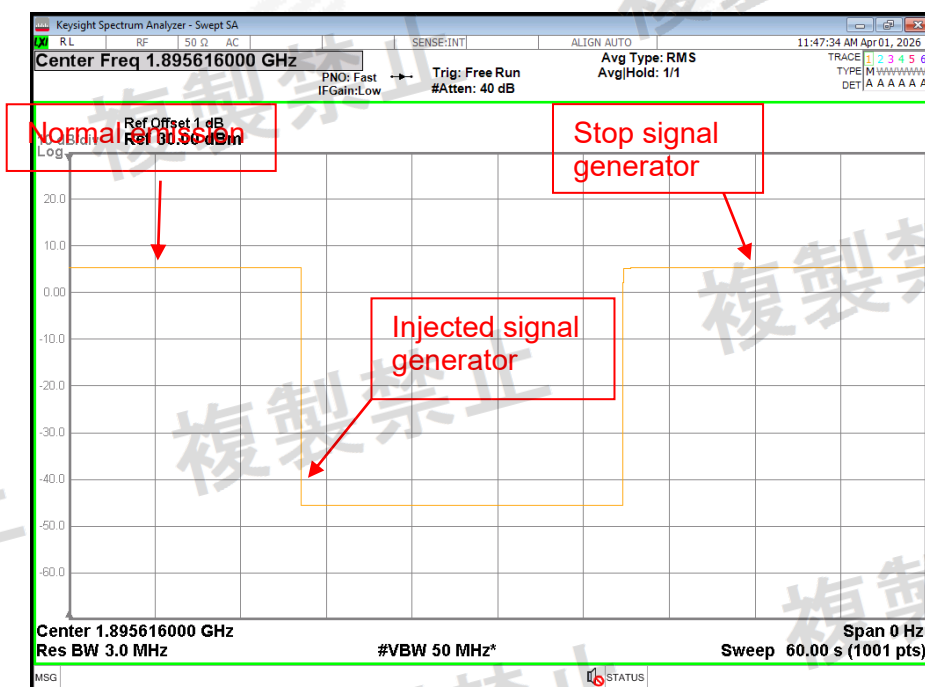


1902.528MHz Pon

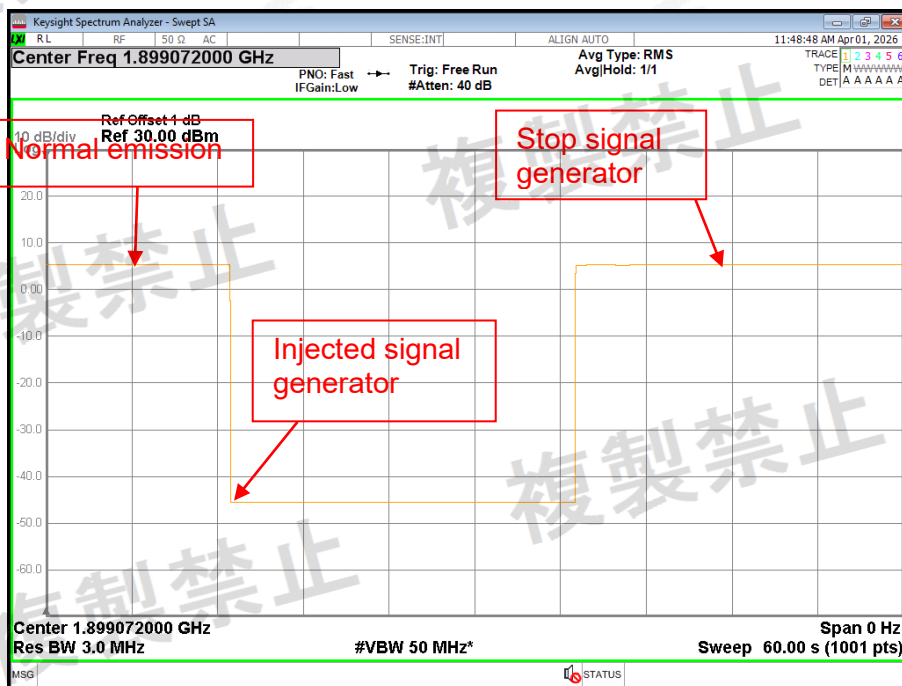


ANT 1

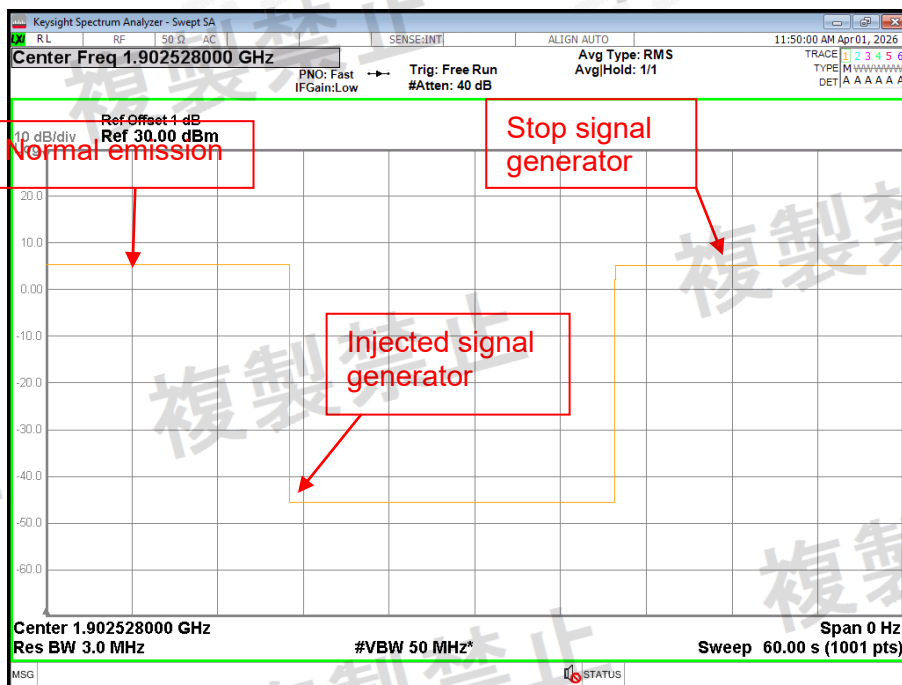
1895.616MHz Pon



1899.072MHz Pon

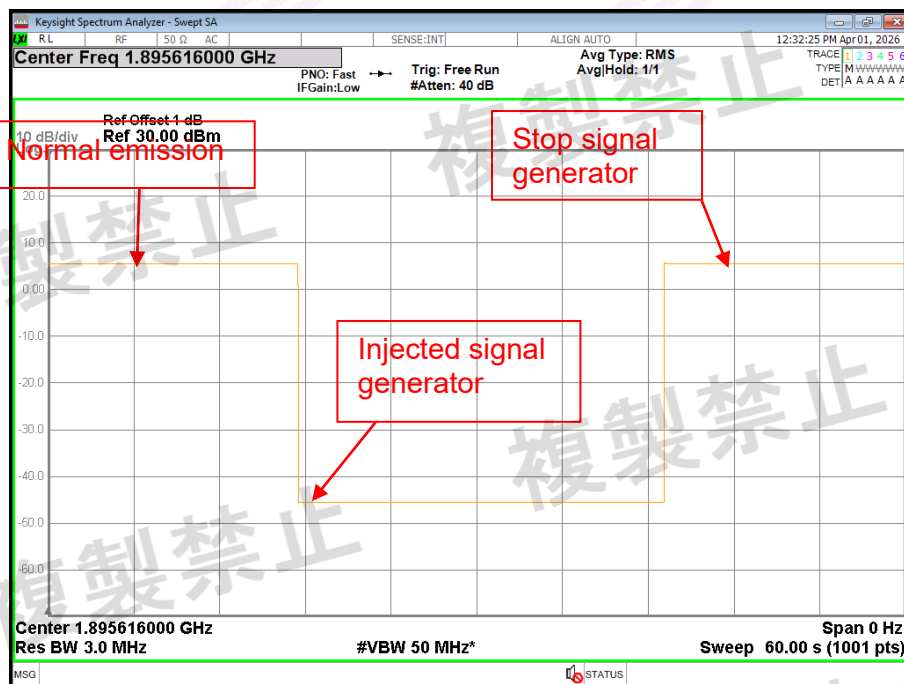


1902.528MHz Pon

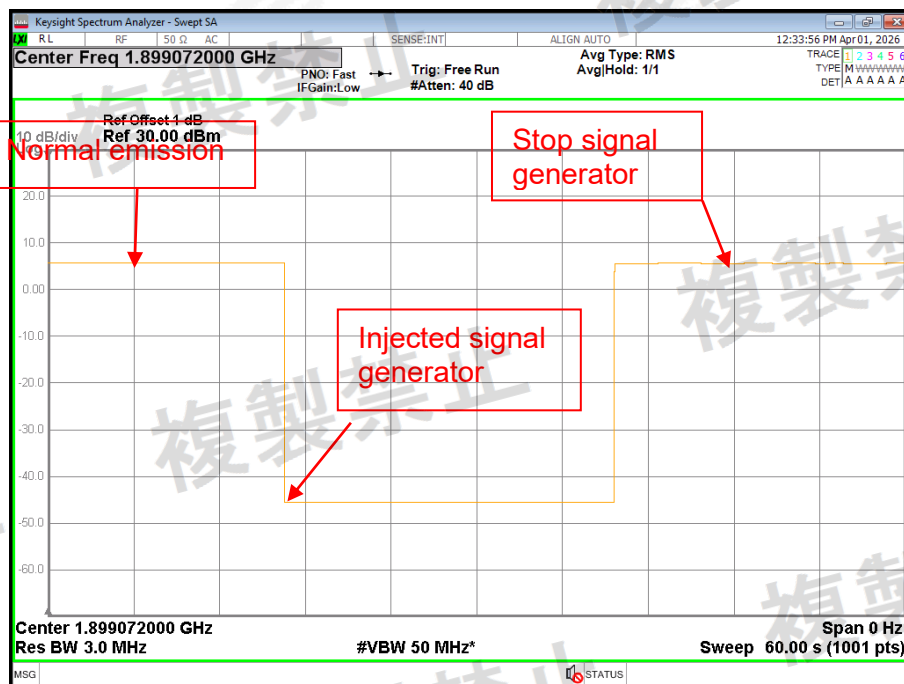


PP
ANT 0

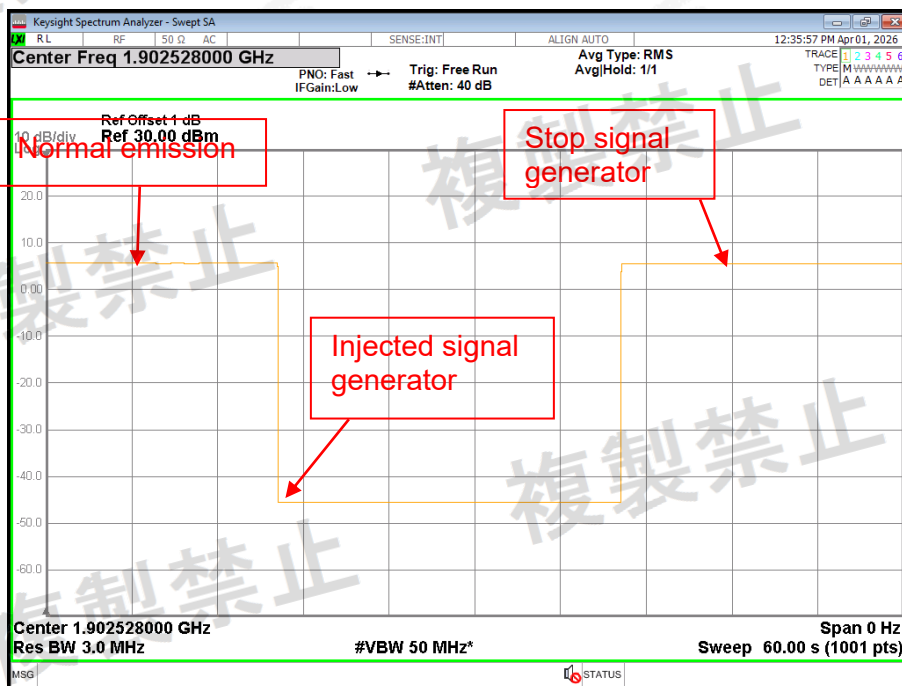
1895.616MHz Pon



1899.072MHz Pon

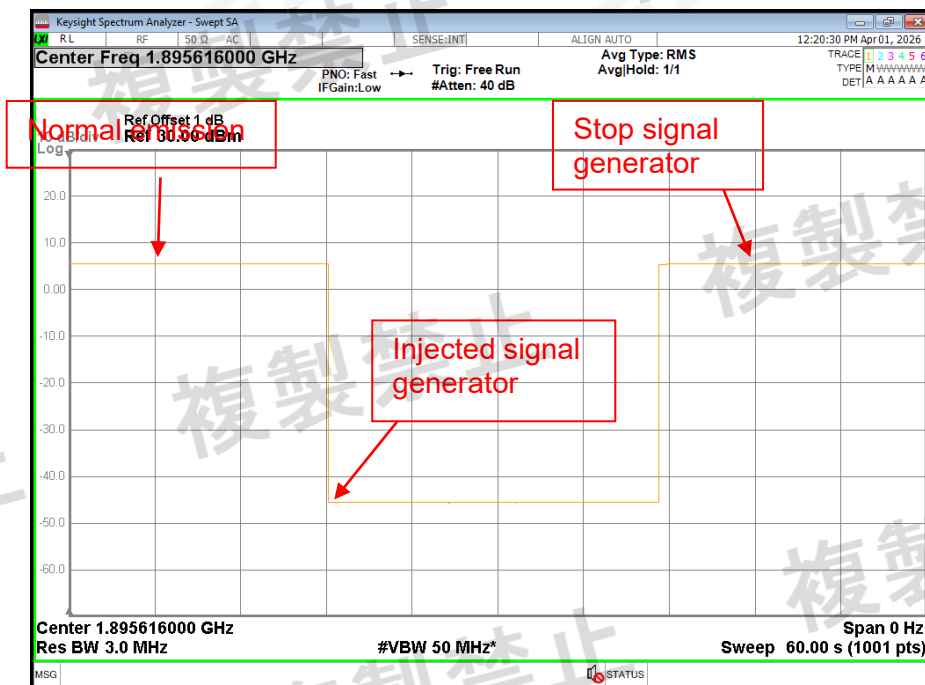


1902.528MHz Pon



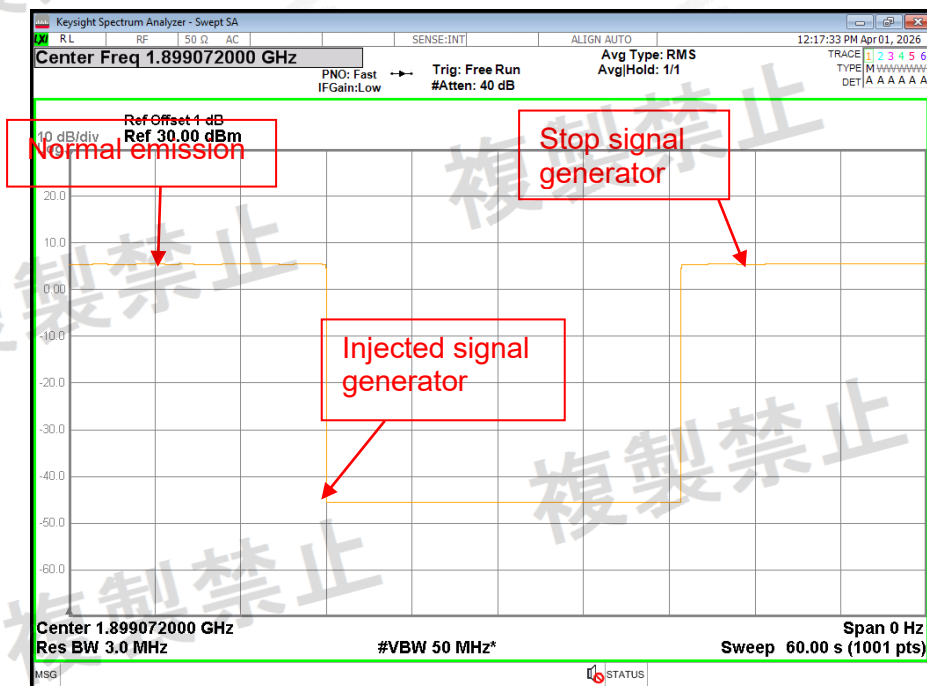
ANT 1

1895.616MHz Pon

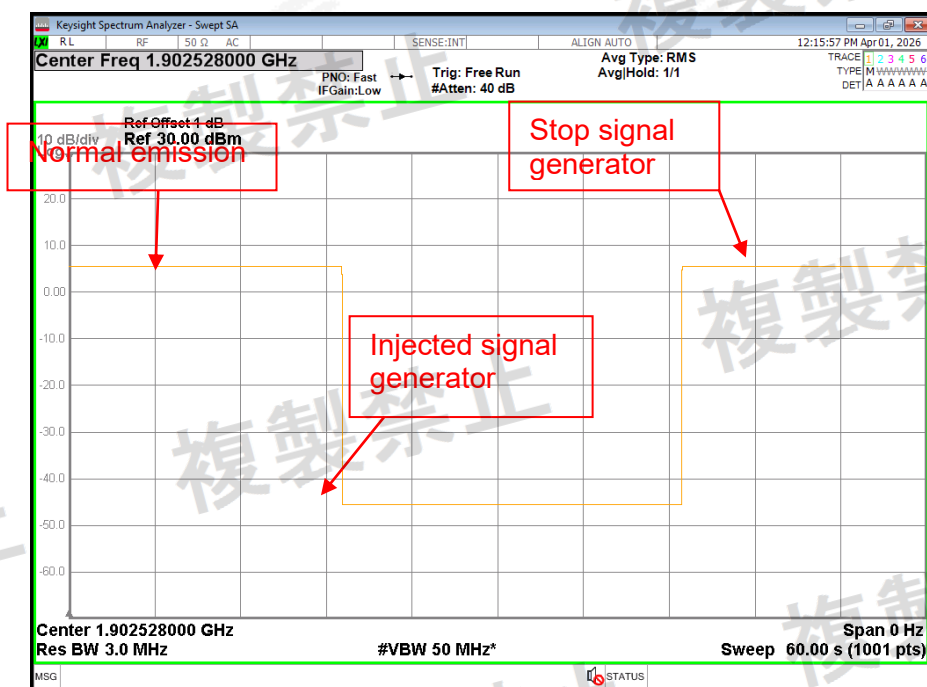




1899.072MHz Pon



1902.528MHz Pon





16. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

REPORT END