

Test Report No:
23C0771R-RFJPV25S-A

TEST REPORT

Japan Rules&Regulations

Product Name	CAM
Brand Name	Chicony
Model No.	DC-2327
Applicant's Name / Address	Chicony Electronics CO., Ltd No.69, Sec. 2. Guangfu. Rd., Sanchong Dist.,NewTaipei City 24158, Taiwan
Manufacturer's Name / Address	Chicony Electronics CO., Ltd No.69, Sec. 2. Guangfu. Rd., Sanchong Dist.,NewTaipei City 24158, Taiwan
Test Method Requested, Standard	MIC Notice No.88 of 2004, Annex 22-3 Article 2 Paragraph 1 of Item 8
Verdict Summary	IN COMPLIANCE
Documented By	<i>Hailey Peng</i> Hailey Peng
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Appendix I. Test Photograph

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
4. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Mar. 05, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	Output Power and Output Power Tolerance	PASS	-
4	Occupied Bandwidth	PASS	-
5	Frequency Tolerance	PASS	-
6	Adjacent Channel Power	PASS	-
7	Transmitter Spurious Emissions	PASS	-
8	Receiver Spurious Emissions	PASS	-
9	Transmission Time	PASS	-
10	Carrier Sense	PASS	-
11	Interference Prevention Function	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Mode	Frequency Range	Operating Frequency		Channel Number	n	Modulation Type
Wi-Fi HaLow	920.5 ~ 928.1 MHz	1 MHz	923 ~ 927 MHz	5	5	OFDM
		2 MHz	923.5 ~ 926.5 MHz	4	10	
		4 MHz	924.5 ~ 925.5 MHz	2	20	

“n” is number of units channel simultaneously used.

Accessories Information	
No.	Equipment Name
1	Bracket

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
0	INPAQ	RFDPA171300SMUB805	Dipole	0.98

1.2. EUT Information

EUT Power Type	From Host system / Battery
Hardware Version	A4
Firmware Version	204 685c13504
MAC-Address	0C:BF:74:B2:88:5C

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following, and reference test guidance is not within the scope of accreditation of TAF:

- ♦ MIC Notice No.88 of 2004, Annex 22-3
- ♦ Article 2 Paragraph 1 of Item 8

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted Emission (Other Test Items)	HC-SR12	Max Chang	22.3 / 61	2023/12/26
RF Conducted Emission (Carrier Sense)	HC-SR10	Neil Yeh	21.9 / 50	2024/01/02

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
Output Power and Output Power Tolerance	± 2.47 dB
Occupied Bandwidth	± 636.54 Hz
Frequency Tolerance	± 636.54 Hz
Adjacent Channel Power	± 2.47 dB
Transmitter Spurious Emissions	± 2.47 dB
Receiver Spurious Emissions	± 2.47 dB
Transmission Time	± 19.555 ms
Carrier Sense	± 0.74 dB
Interference Prevention Function	N/A

1.6. List of Test Equipment

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date	Cal. Lab.	Cal. Method
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2023/07/03	2024/07/02	R&S	Note2(c)
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24	ITRI	Note2(c)
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24	ITRI	Note2(c)

HC-SR10

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date	Cal. Lab.	Cal. Method
Directional Coupler	Agilent	778D	20402	0.1-2 GHz/ 20 dB Mean couple	2023/07/19	2024/07/18	ITRI	Note2(c)
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24	ITRI	Note2(c)
MXG Vector Signal Generator	Keysight	N5182B	MY53052548	9 kHz-6 GHz	2023/01/06	2024/01/05	ITRI	Note2(c)
Spectrum Analyzer	Keysight	N9010B	MY57110159	10 Hz-7 GHz	2023/03/03	2024/03/02	ITRI	Note2(c)
EXG Analog Signal Generator	Keysight	N5171B	MY56200665	9 kHz-6 GHz	2023/05/17	2024/05/16	ITRI	Note2(c)

Note1: All equipment upon which need to calibrated are with calibration period of 1 year.

Note2: 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) of the Radio Law.
- (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).
- (d) : Calibration conducted by using other equipment that listed above from (a) to (c).

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	DC 5V

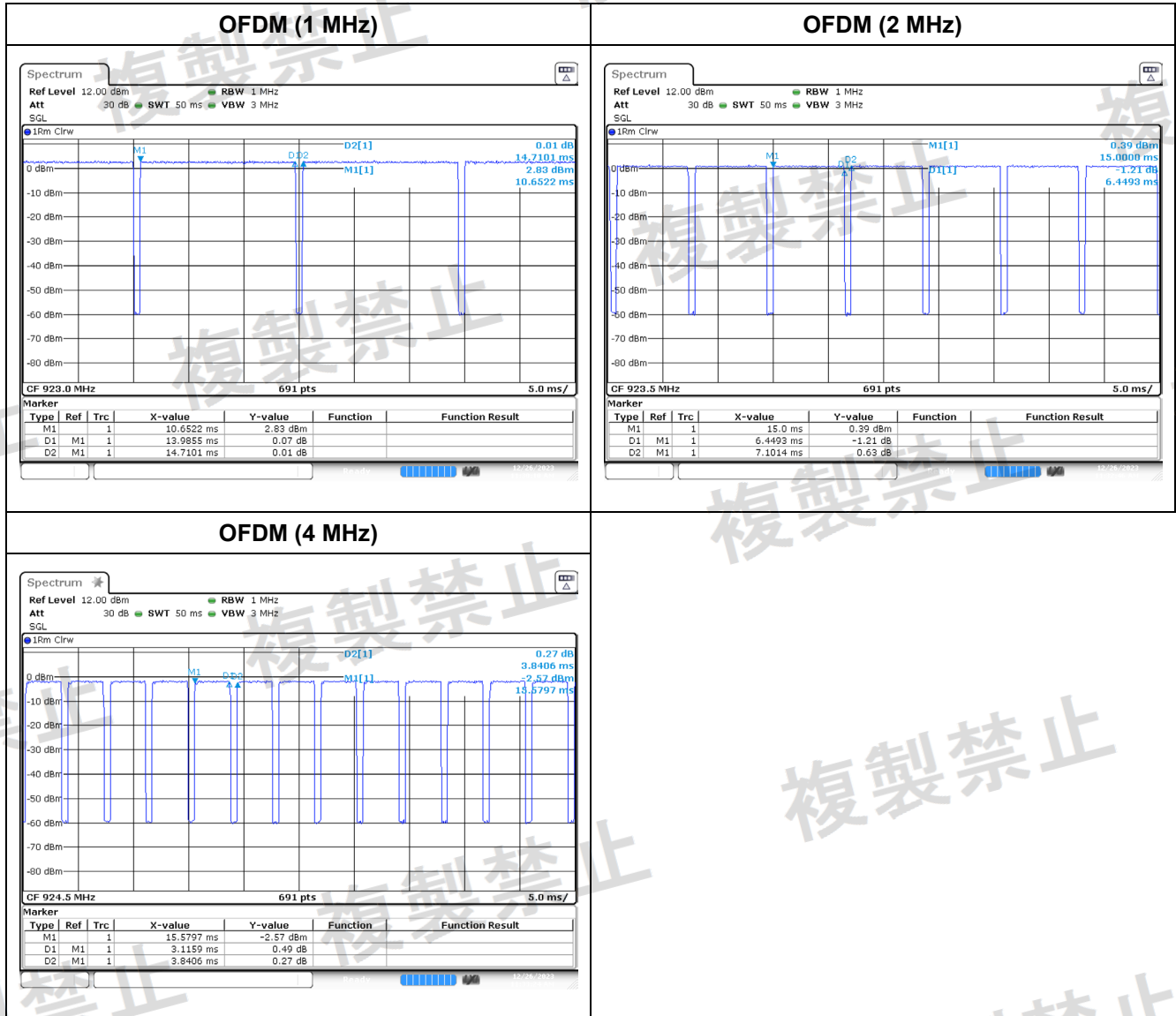
2.2. Test Frequency Mode

Test Software	Putty
---------------	-------

Modulation	Frequency (MHz)	Power Setting
OFDM (1 MHz)	923	-11
	925	-11
	927	-10
OFDM (2 MHz)	923.5	-11
	925.5	-10
	926.5	-10
OFDM (4 MHz)	924.5	-10
	925.5	-10

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)
OFDM (1 MHz)	13.980	14.710	95.04	0.22
OFDM (2 MHz)	6.440	7.100	90.70	0.42
OFDM (4 MHz)	3.110	3.840	80.99	0.92



2.4. Power Supply Voltage Fluctuation

The EUT has component of power supply regulation, therefore only normal condition was evaluated. When the input voltage from the external power supply to the EUT varied by $\pm 10\%$, the variation of the input voltage to the circuitry of the radio section was confirmed to be $\pm 1\%$ or less.

2.5. The Worst Case Measurement Configuration

Tests Item	Output Power and Output Power Tolerance Occupied Bandwidth Frequency Tolerance Adjacent Channel Power Transmitter Spurious Emissions Receiver Spurious Emissions Transmission Time Carrier Sense Interference Prevention Function
Test Condition	Conducted measurement at transmit chains

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.6. Tested System Details

For Other Test Items

No.	Equipment	Brand Name	Model No.	Serial No.
1	NB	Lenovo	L490	8611271467

For Carrier Sense Test

No.	Equipment	Brand Name	Model No.	Serial No.
1	PC	DELL	Inspiron 3250	G6Q10J2
2	PC	ASUS	K31AD	G2PDAG0004JP
3	Gateway	Chicony	DC-2207	N/A

3. Output Power and Output Power Tolerance

3.1. Test Setup



3.2. Test Limit

Output Power

≤ 20 mW

Output Power Tolerance:

+20% and -80%

3.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

3.4. Test Procedure

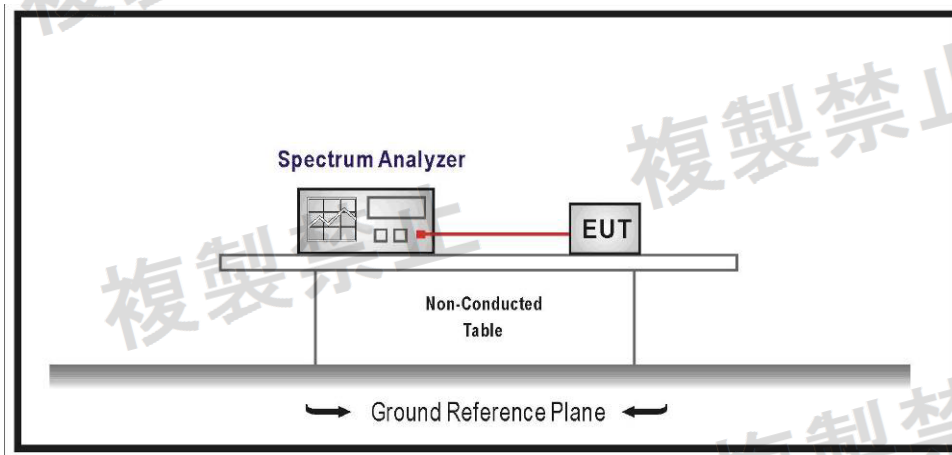
1. The EUT shall be configured to operate at the maximum stated transmitter output power level.
2. A power meter is connected on the antenna port of the EUT.

3.5. Test Result of Output Power and Output Power Tolerance

Refer as Appendix A

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Limit

$$\leq 200 \text{ kHz} \times n$$

Note: $n = 5$ for 1 MHz, 10 for 2 MHz and 20 for 4 MHz

4.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

4.4. Test Procedure

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

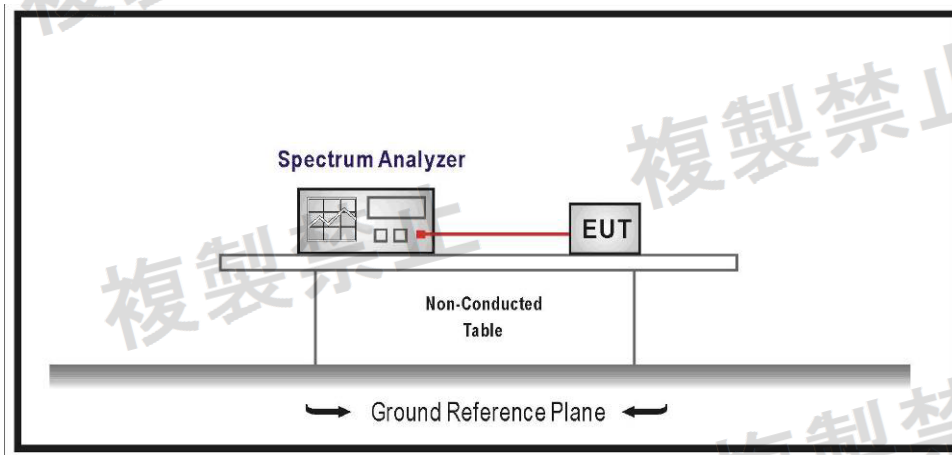
- A positive peak detector function must be used.
- A measurement instrument with an integrated 99% power bandwidth function may be used to automate the test process.
- The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slowly, to ensure all 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.
- 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

4.5. Test Result of Occupied Bandwidth

Refer as Appendix B

5. Frequency Tolerance

5.1. Test Setup



5.2. Test Limit

$\leq \pm 20$ ppm

5.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

5.4. Test Procedure

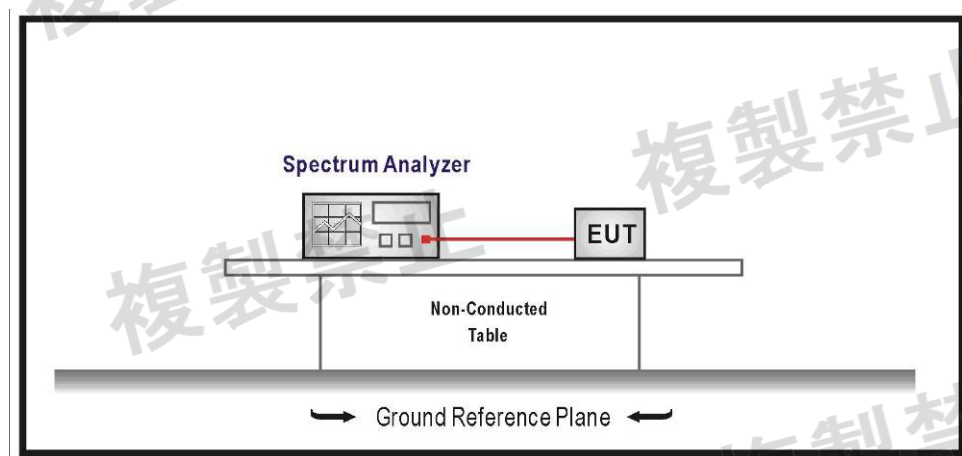
EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value; f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm.

5.5. Test Result of Frequency Tolerance

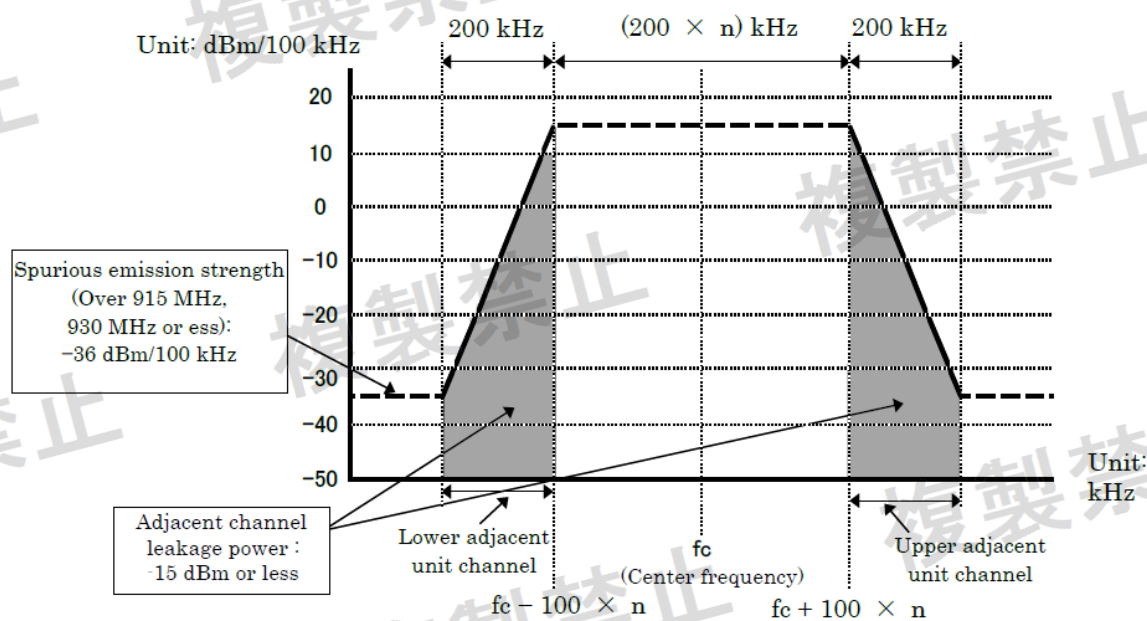
Refer as Appendix C

6. Adjacent Channel Power

6.1. Test Setup



6.2. Test Limit



Note: $n = 5$ for 1 MHz, 10 for 2 MHz and 20 for 4 MHz.

6.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

6.4. Test Procedure

1. Conditions of EUT

EUT is modulated with a standard code test signal and is operated in continuous transmission.

2. Measurement procedure

The spectrum analyzer settings are:

RBW: 1kHz

VBW: 3kHz

Channel power function and 'Maximum Hold' mode may be used to accumulate the measurement.

These measurements request maximum leakage electric levels in side bands within $CF \pm (200 \times n) - 200\text{kHz}$

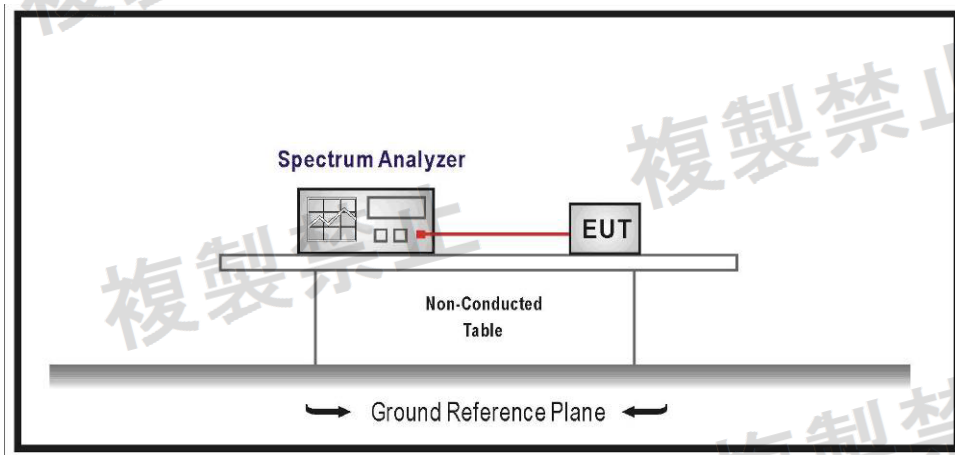
Where, CF is the center frequency, $n = 5, 10$ or 20 .

6.5. Test Result of Adjacent Channel Power

Refer as Appendix D

7. Transmitter Spurious Emissions

7.1. Test Setup



7.2. Test Limit

- $\leq -36\text{dBm}/100\text{kHz}$ for 30 ~ 710 MHz
- $\leq -55\text{dBm}/1\text{MHz}$ for 710 ~ 900 MHz
- $\leq -55\text{dBm}/100\text{kHz}$ for 900 ~ 915 MHz
- $\leq -36\text{dBm}/100\text{kHz}$ for 915 ~ 930 MHz (Note)
- $\leq -55\text{dBm}/100\text{kHz}$ for 930 ~ 1000 MHz
- $\leq -45\text{dBm}/1\text{MHz}$ for 1000 ~ 1215 MHz
- $\leq -30\text{dBm}/1\text{MHz}$ for 1215 ~ 5th Harmonic

Note.

Except for $|f-f_c| \leq (200+100 \times n)$ kHz if bandwidth of unit radio channel is 200 kHz, except for $|f-f_c| \leq (100+50 \times n)$ kHz if bandwidth of unit radio channel is 100 kHz.

Where n is a number of unit radio channels constituting the radio channel and is an integer from 5, 10 or 20.

7.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

7.4. Test Procedure

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

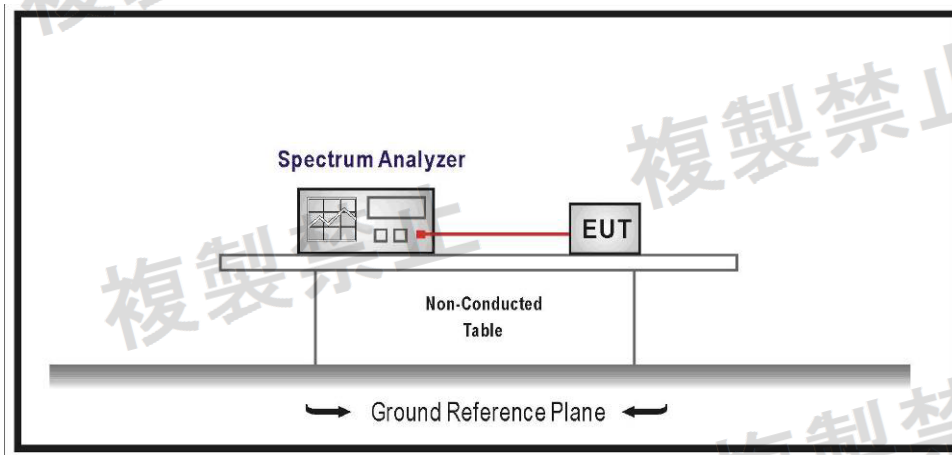
- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

7.5. Test Result of Transmitter Spurious Emissions

Refer as Appendix E

8. Receiver Spurious Emissions

8.1. Test Setup



8.2. Test Limit

- ≤ -54dBm/100kHz for 30 ~ 710 MHz
- ≤ -55dBm/1MHz for 710 ~ 900 MHz
- ≤ -55dBm/100kHz for 900 ~ 915 MHz
- ≤ -54dBm/100kHz for 915 ~ 930 MHz
- ≤ -55dBm/100kHz for 930 ~ 1000 MHz
- ≤ -47dBm/1MHz for 1000 ~ 5th Harmonic

8.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

8.4. Test Procedure

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

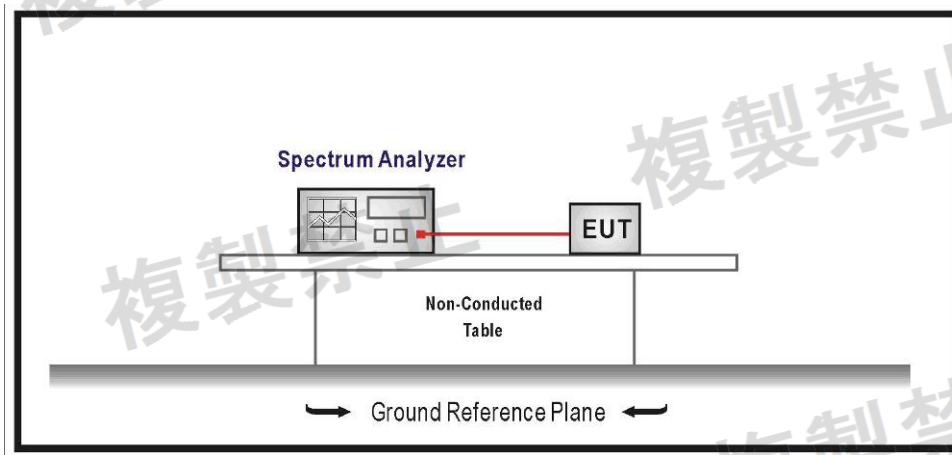
- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slowly, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

8.5. Test Result of Receiver Spurious Emissions

Refer as Appendix F

9. Transmission Time

9.1. Test Setup



9.2. Test Limit

In case the 128 μ s or more and less than 5ms carrier sense time is required

1. Using one unit radio channel: radio equipment shall stop its emission of radio wave less than 400ms after it starts to emit radio wave. The sum of emission time per arbitrary one hour shall be 360s or less. Meanwhile, if the emission time is more than 200ms, it shall wait for ten times or more of the former emission time. If the emission time is more than 6ms and is 200ms or less, it shall wait for 2ms for the consecutive emission.
2. Using two unit radio channels: radio equipment shall stop its emission of radio wave less than 200ms after it starts to emit radio wave. The sum of emission time per arbitrary one hour shall be 360s or less. Meanwhile if the emission time is more than 3ms, it shall wait for 2ms for the consecutive emission.
3. Using 3, 4, or 5 unit radio channels: radio equipment shall stop its emission of radio wave less than 100ms after it starts to emit radio wave. The sum of emission time per arbitrary one hour shall be 360s or less. Meanwhile if the emission time is more than 2ms, it shall wait 2ms for the consecutive emission.

9.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

9.4. Test Procedure

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

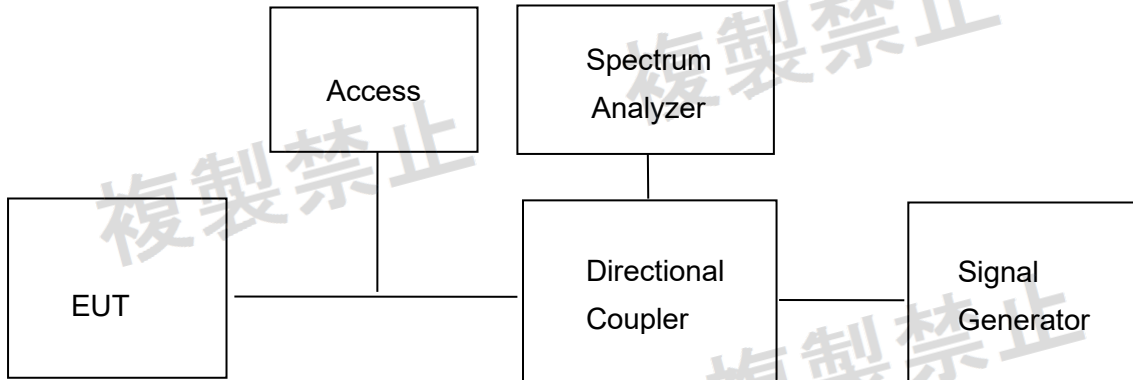
- (a) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slowly, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (b) 'Clean write' mode may be used.

9.5. Test Result of Transmission Time

Refer as Appendix G

10. Carrier Sense

10.1. Test Setup



10.2. Test Limit

1. Radio equipment shall check if the interference exists by the career sense procedure before its new emission.
2. Carrier sense time shall be 128 μ s or more.
3. Carrier sense level, amount of received power at all of unit radio channels included in the radio channel to emit, shall be -80dBm at the antenna input. When the carrier sense level is more than -80dBm, radio equipment shall not emit any radio wave.
4. Carrier sense is not necessary if the antenna power is 1mW or less and the conditions of (3) are satisfied.

10.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

10.4. Test Procedure

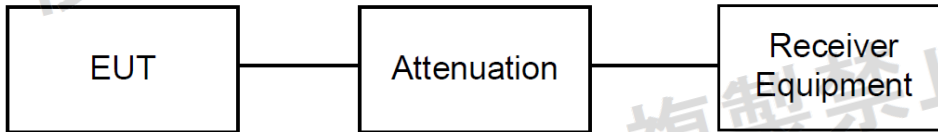
1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is up to -75dBm. Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RBW:1MHz / VBW:1MHz / SPAN: zero Sweep Mode: single sweep / Detect mode: Positive peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

10.5. Test Result of Carrier Sense

Refer as Appendix H

11. Interference Prevention Function

11.1. Test Setup



11.2. Test Limit

The radio equipment shall automatically transmit/receive identification codes.

11.3. Test Method

According to MIC Notice No.88 of 2004, Annex 22-3

11.4. Test Procedure

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

11.5. Test Result of Interference Prevention Function

The MAC-Address is 48bits and shown in section 1.2.

Appendix A.1 Test Result of Output Power

Modulation	Frequency (MHz)	Reading Value (dBm)	Output Power (dBm)	Output Power (mW)	Limit (mW)
OFDM (1 MHz)	923	12.340	12.561	18.035	20.00
	925	12.530	12.751	18.841	20.00
	927	12.680	12.901	19.503	20.00
OFDM (2 MHz)	923.5	12.050	12.474	17.676	20.00
	925.5	12.320	12.744	18.809	20.00
	926.5	12.350	12.774	18.940	20.00
OFDM (4 MHz)	924.5	12.010	12.926	19.614	20.00
	925.5	11.890	12.806	19.080	20.00

Note: Output Power = Reading Value + Duty Factor.

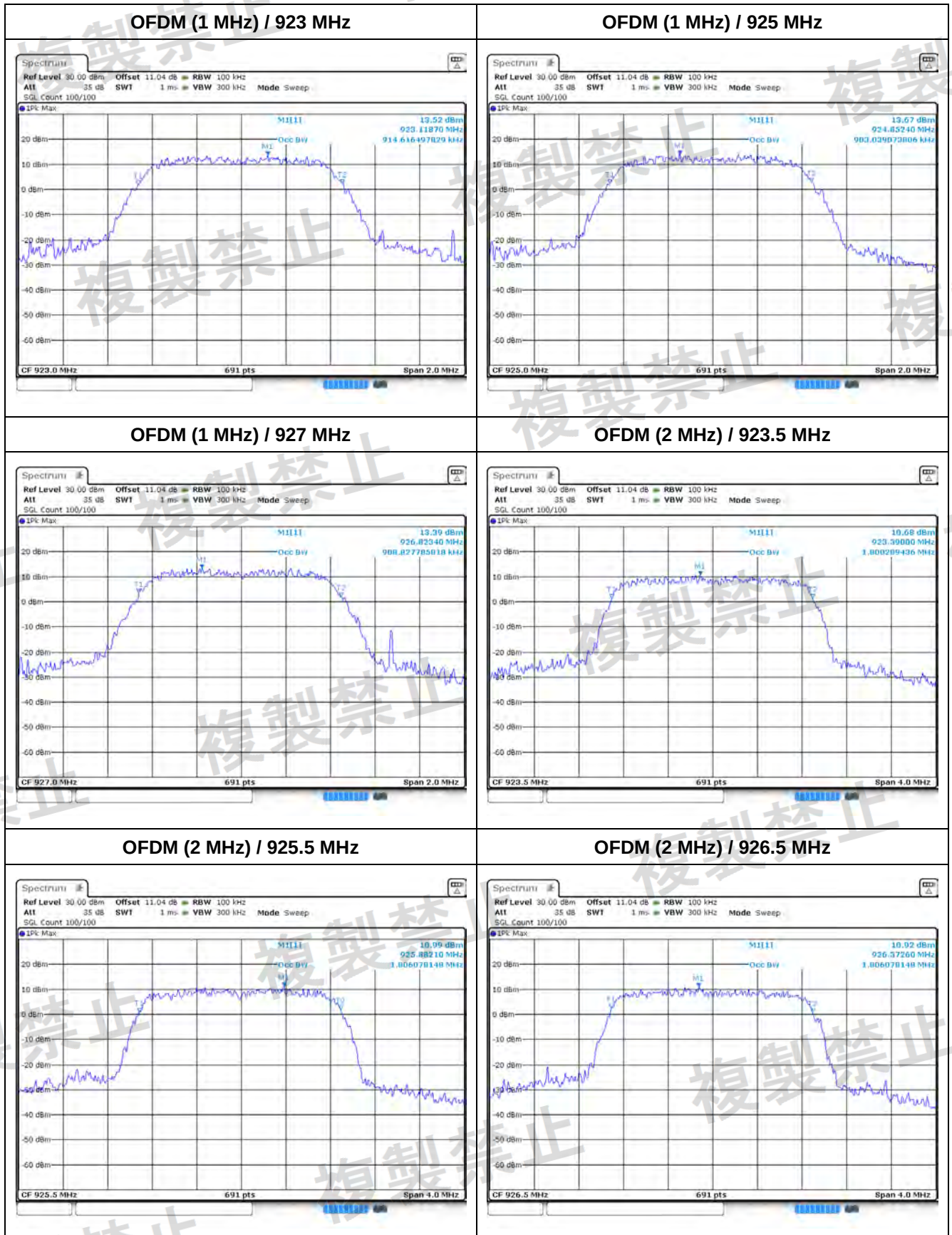
Appendix A.2 Test Result of Output Power Tolerance

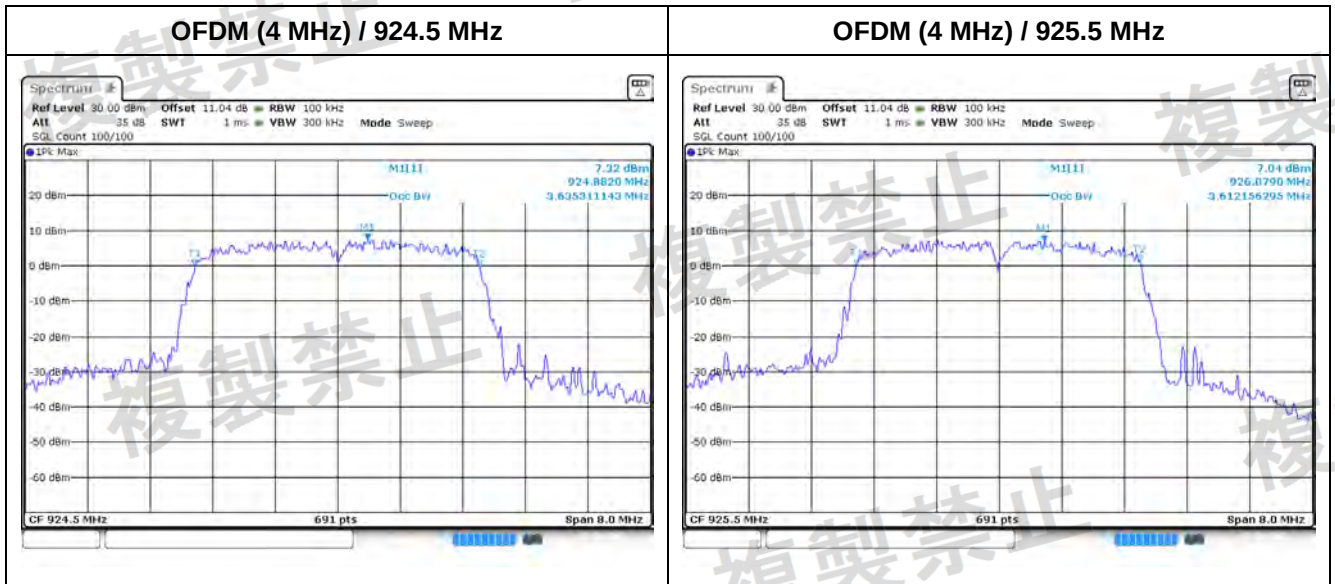
Modulation	Frequency (MHz)	Declared Output Power (mW)	Output Power (mW)	Tolerance (%)	Limit (%)
OFDM (1 MHz)	923	19.50318	18.03456	-7.5302	+20 to -80
	925	19.50318	18.84107	-3.3949	+20 to -80
	927	19.50318	19.50318	0.0000	+20 to -80
OFDM (2 MHz)	923.5	18.93967	17.67553	-6.6746	+20 to -80
	925.5	18.93967	18.80929	-0.6884	+20 to -80
	926.5	18.93967	18.93967	0.0000	+20 to -80
OFDM (4 MHz)	924.5	19.61421	19.61421	0.0000	+20 to -80
	925.5	19.61421	19.07967	-2.7253	+20 to -80

Note: Tolerance = (Output Power - Declared Output Power) / Declared Output Power * 100%.

Appendix B. Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	Reading Value (MHz)	Limit (MHz)
OFDM (1 MHz)	923	0.91	1
	925	0.90	1
	927	0.90	1
OFDM (2 MHz)	923.5	1.80	2
	925.5	1.80	2
	926.5	1.80	2
OFDM (4 MHz)	924.5	3.63	4
	925.5	3.61	4



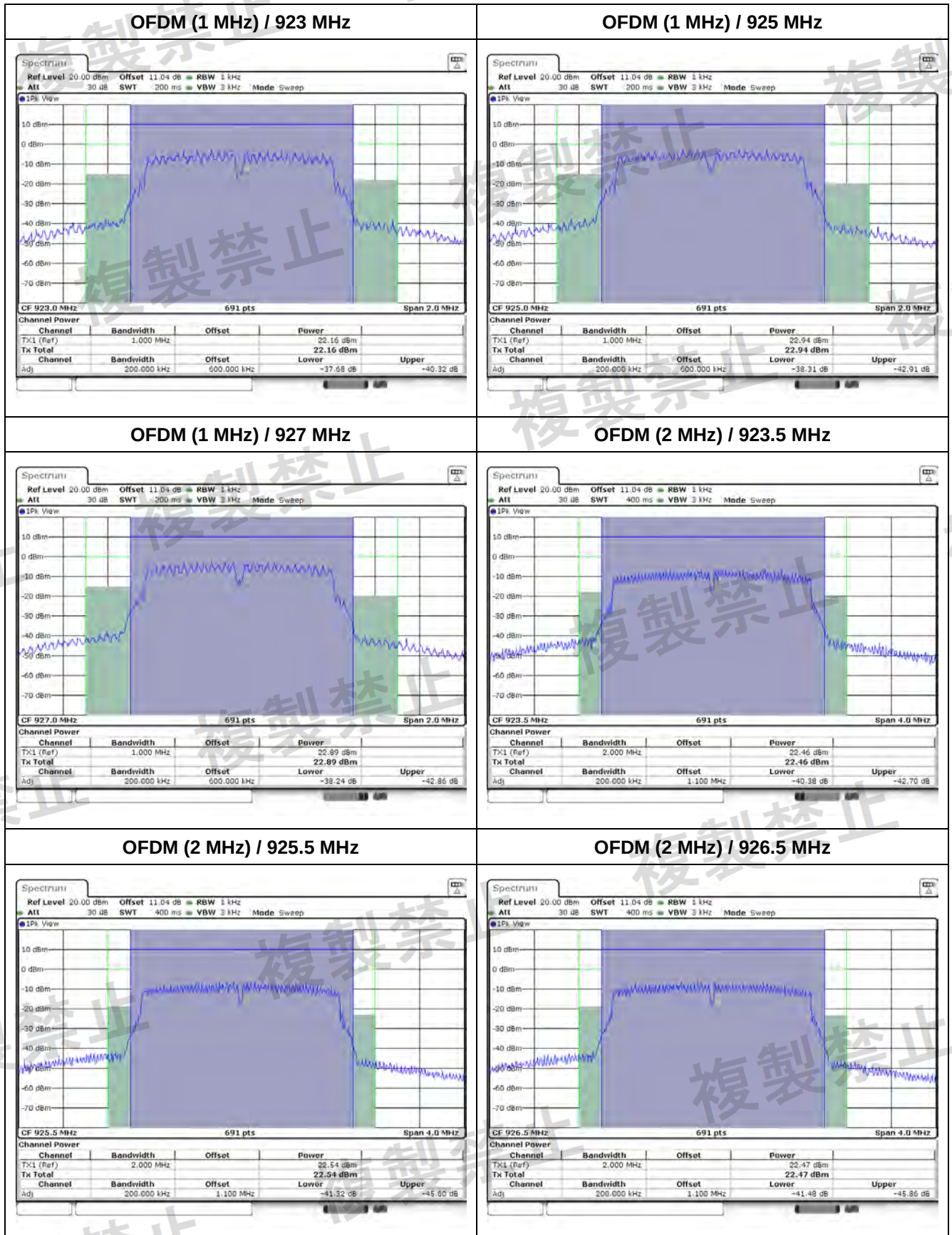


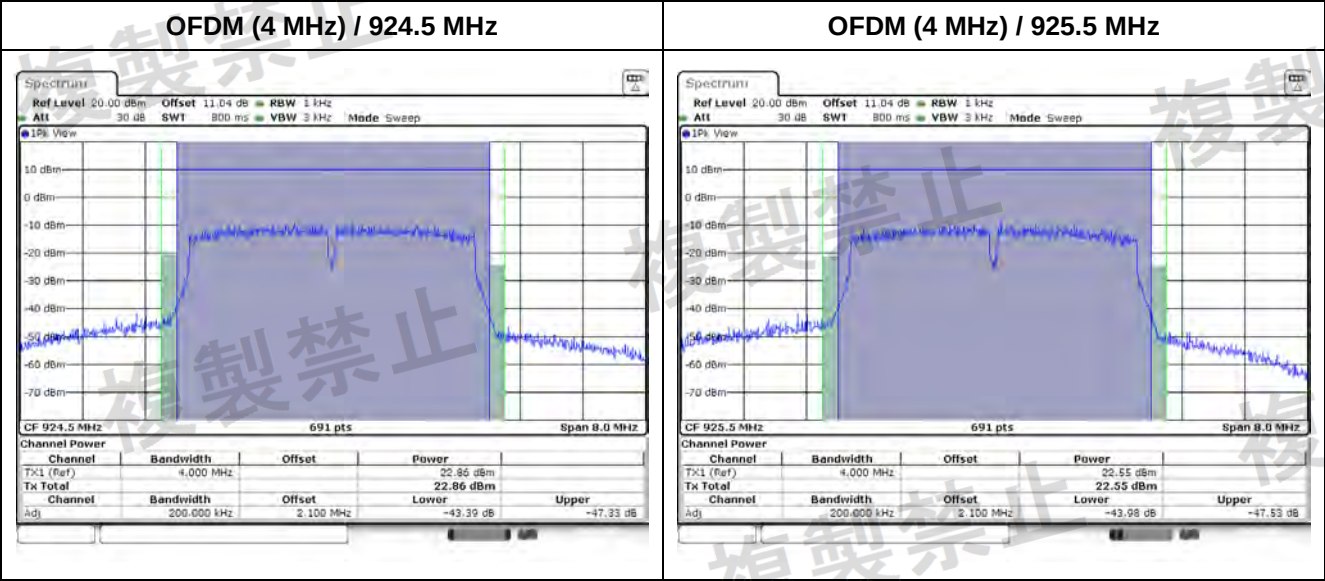
Appendix C. Test Result of Frequency Tolerance

Modulation	Frequency (MHz)	Voltage (V)	Real Value (MHz)	Tolerance (ppm)	Limit (ppm)
OFDM (1 MHz)	923	5.00	922.997	-3.14193	± 20.00
	925	5.00	924.999	-1.51351	± 20.00
	927	5.00	926.993	-7.82093	± 20.00
OFDM (2 MHz)	923.5	5.00	923.496	-4.65620	± 20.00
	925.5	5.00	925.494	-7.02323	± 20.00
	926.5	5.00	926.494	-6.26012	± 20.00
OFDM (4 MHz)	924.5	5.00	924.485	-16.76582	± 20.00
	925.5	5.00	925.486	-15.12696	± 20.00

Appendix D. Test Result of Adjacent Channel Power

Modulation	Frequency (MHz)	Lower ACLR (dB)	Upper ACLR (dB)	Limit (dB)
OFDM (1 MHz)	923	-37.68	-40.32	≥ -15
	925	-38.31	-42.91	≥ -15
	927	-38.24	-42.86	≥ -15
OFDM (2 MHz)	923.5	-40.38	-42.70	≥ -15
	925.5	-41.32	-45.60	≥ -15
	926.5	-41.48	-45.86	≥ -15
OFDM (4 MHz)	924.5	-43.39	-47.33	≥ -15
	925.5	-43.98	-47.53	≥ -15





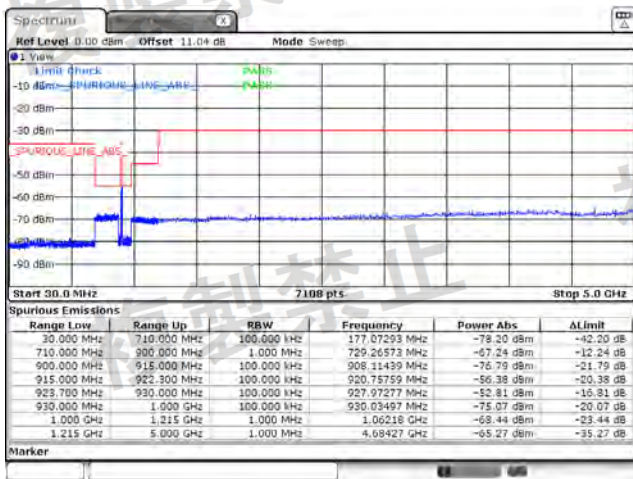
Appendix E. Test Result of Transmitter Spurious Emissions

Modulation	Frequency (MHz)	Frequency Range (MHz)	Reading Frequency (MHz)	RBW (Hz)	Reading Level (dBm)	Limit (dBm)
OFDM (1 MHz)	923	30-710	177.07	100k	-78.20	-36
		710-900	729.26	1M	-67.24	-55
		900-915	908.11	100k	-76.79	-55
		915-922.3	920.75	100k	-56.38	-36
		923.7-930	927.97	100k	-52.81	-36
		930-1000	930.03	100k	-75.07	-55
		1000-1215	1062.18	1M	-68.44	-45
		1215-5000	4684.27	1M	-65.27	-30
	925	30-710	480.04	100k	-78.31	-36
		710-900	797.21	1M	-66.56	-55
		900-915	904.26	100k	-76.94	-55
		915-924.3	922.17	100k	-55.22	-36
		925.7-930	928.23	100k	-55.95	-36
		930-1000	930.10	100k	-74.39	-55
		1000-1215	1061.11	1M	-68.31	-45
		1215-5000	2411.76	1M	-60.62	-30
	927	30-710	622.70	100k	-78.68	-36
		710-900	798.92	1M	-67.32	-55
		900-915	907.41	100k	-76.88	-55
		915-926.3	923.14	100k	-56.49	-36
		927.7-930	928.64	100k	-64.81	-36
		930-1000	930.03	100k	-72.44	-55
		1000-1215	1997.07	1M	-68.02	-45
		1215-5000	4279.68	1M	-65.13	-30

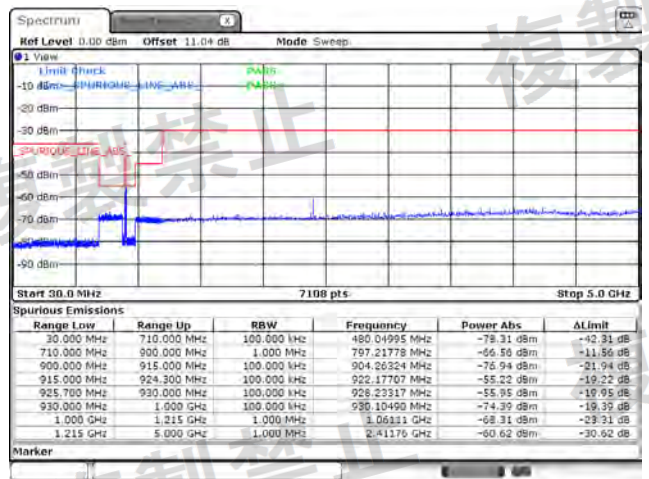
Modulation	Frequency (MHz)	Frequency Range (MHz)	Reading Frequency (MHz)	RBW (Hz)	Reading Level (dBm)	Limit (dBm)
OFDM (2 MHz)	923.5	30-710	348.26	100k	-78.44	-36
		710-900	795.31	1M	-62.23	-55
		900-915	914.30	100k	-74.46	-55
		915-922.3	921.36	100k	-50.70	-36
		924.7-930	927.24	100k	-38.41	-36
		930-1000	930.03	100k	-61.36	-55
		1000-1215	1155.61	1M	-67.04	-45
		1215-5000	2430.66	1M	-60.95	-30
	925.5	30-710	666.18	100k	-78.82	-36
		710-900	797.78	1M	-67.37	-55
		900-915	913.83	100k	-77.46	-55
		915-924.3	922.48	100k	-53.77	-36
		926.7-930	928.02	100k	-52.05	-36
		930-1000	930.10	100k	-70.88	-55
		1000-1215	1051.01	1M	-68.60	-45
		1215-5000	4120.87	1M	-65.28	-30
	926.5	30-710	474.61	100k	-78.57	-36
		710-900	733.63	1M	-67.23	-55
		900-915	912.22	100k	-76.95	-55
		915-925.3	924.39	100k	-51.14	-36
		927.7-930	928.46	100k	-55.75	-36
		930-1000	930.10	100k	-71.41	-55
		1000-1215	1022.66	1M	-68.21	-45
		1215-5000	3984.74	1M	-64.99	-30

Modulation	Frequency (MHz)	Frequency Range (MHz)	Reading Frequency (MHz)	RBW (Hz)	Reading Level (dBm)	Limit (dBm)
OFDM (4 MHz)	924.5	30-710	422.98	100k	-78.54	-36
		710-900	795.31	1M	-62.23	-55
		900-915	914.55	100k	-74.59	-55
		915-922.3	920.75	100k	-36.23	-36
		926.7-930	928.61	100k	-37.31	-36
		930-1000	930.03	100k	-56.59	-55
		1000-1215	1155.40	1M	-66.12	-45
		1215-5000	1852.14	1M	-53.11	-30
	925.5	30-710	253.83	100k	-78.66	-36
		710-900	807.65	1M	-66.67	-55
		900-915	909.10	100k	-75.84	-55
		915-923.3	922.20	100k	-40.87	-36
		927.7-930	928.50	100k	-42.26	-36
		930-1000	930.03	100k	-61.53	-55
		1000-1215	1143.58	1M	-67.76	-45
		1215-5000	4317.49	1M	-65.16	-30

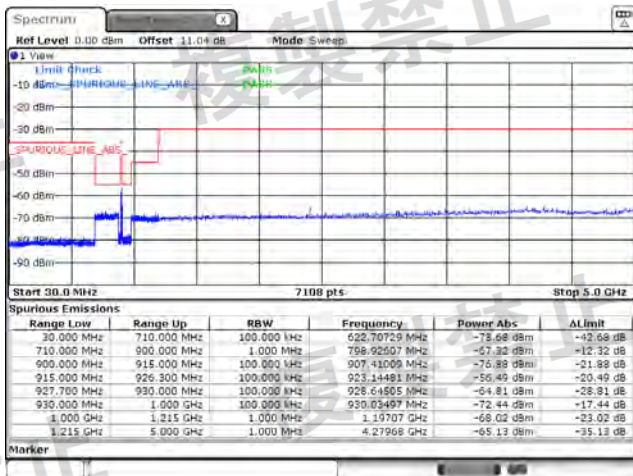
OFDM (1 MHz) / 923 MHz



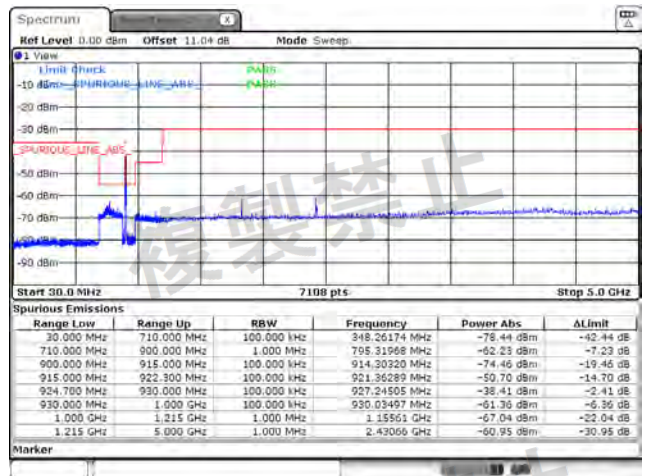
OFDM (1 MHz) / 925 MHz



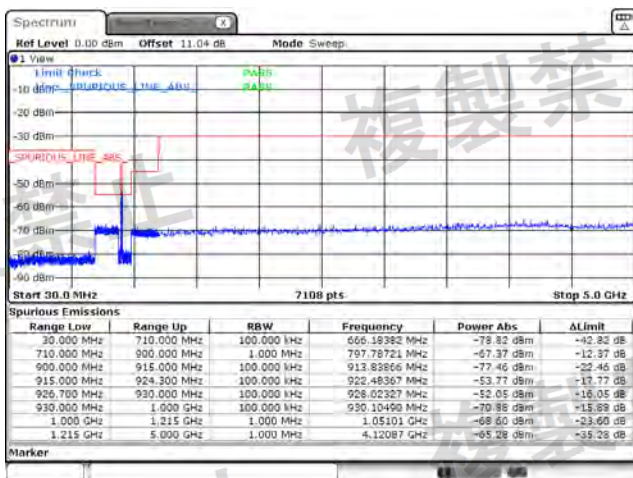
OFDM (1 MHz) / 927 MHz



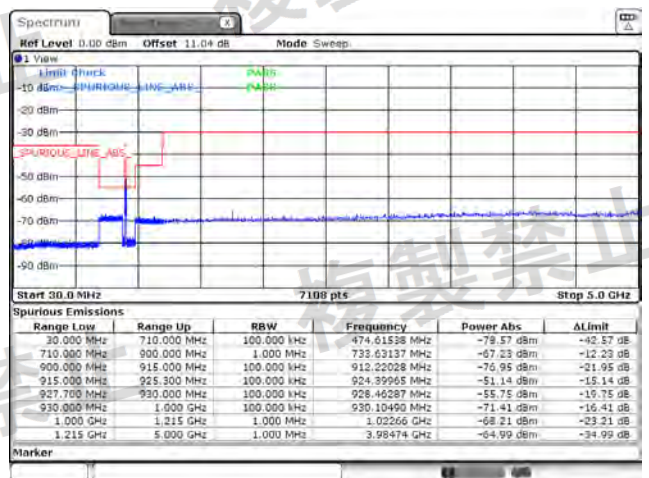
OFDM (2 MHz) / 923.5 MHz

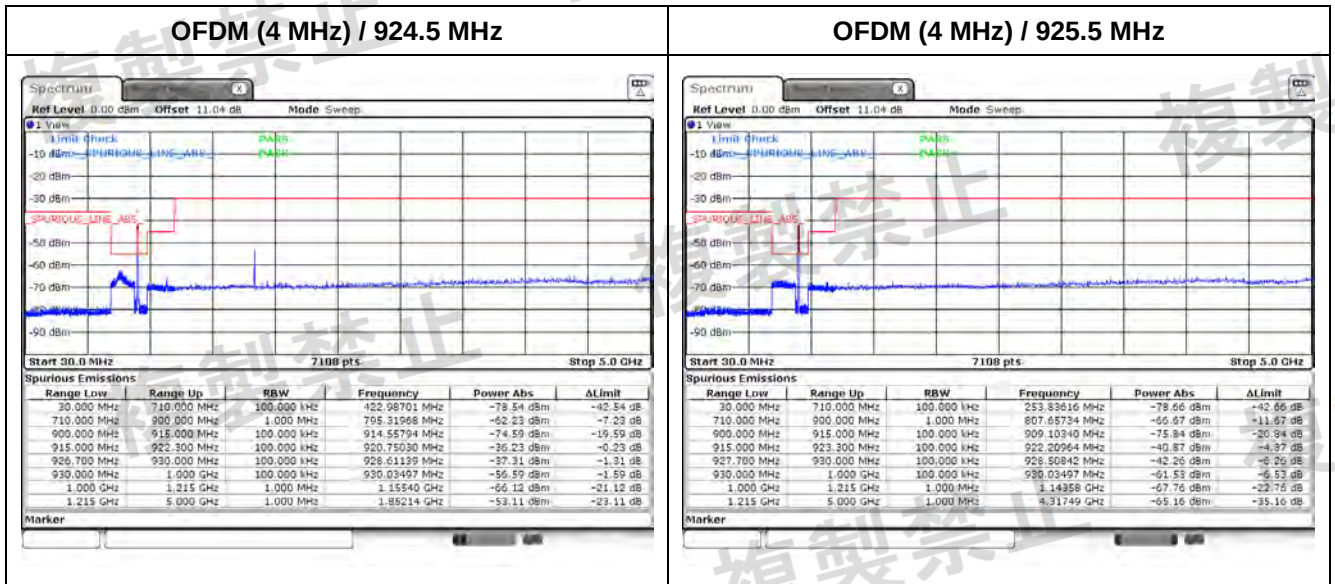


OFDM (2 MHz) / 925.5 MHz



OFDM (2 MHz) / 926.5 MHz





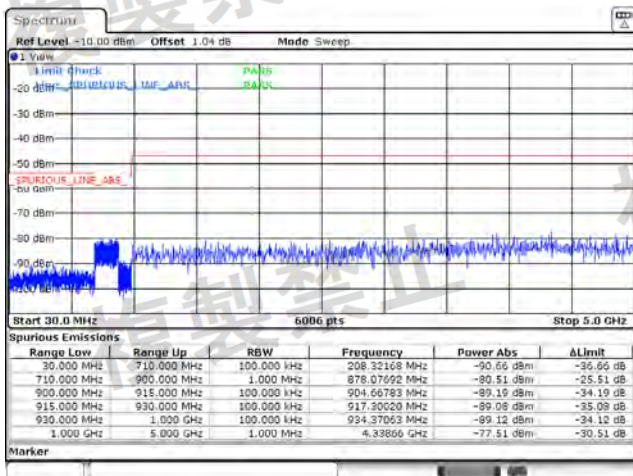
Appendix F. Test Result of Receiver Spurious Emissions

Modulation	Frequency (MHz)	Frequency Range (MHz)	Reading Frequency (MHz)	RBW (Hz)	Reading Level (dBm)	Limit (dBm)
OFDM (1 MHz)	923	30-710	208.32	100k	-90.66	-54
		710-900	878.07	1M	-80.51	-55
		900-915	904.66	100k	-89.19	-55
		915-930	917.30	100k	-89.08	-54
		930-1000	934.37	100k	-89.12	-55
		1000-5000	4338.66	1M	-77.51	-47
	925	30-710	323.80	100k	-88.74	-54
		710-900	750.71	1M	-79.32	-55
		900-915	911.72	100k	-89.16	-55
		915-930	924.97	100k	-88.23	-54
		930-1000	986.60	100k	-89.40	-55
		1000-5000	4154.85	1M	-77.01	-47
	927	30-710	245.68	100k	-89.64	-54
		710-900	859.28	1M	-79.15	-55
		900-915	904.15	100k	-89.50	-55
		915-930	922.63	100k	-89.47	-54
		930-1000	991.85	100k	-89.61	-55
		1000-5000	2408.59	1M	-68.47	-47

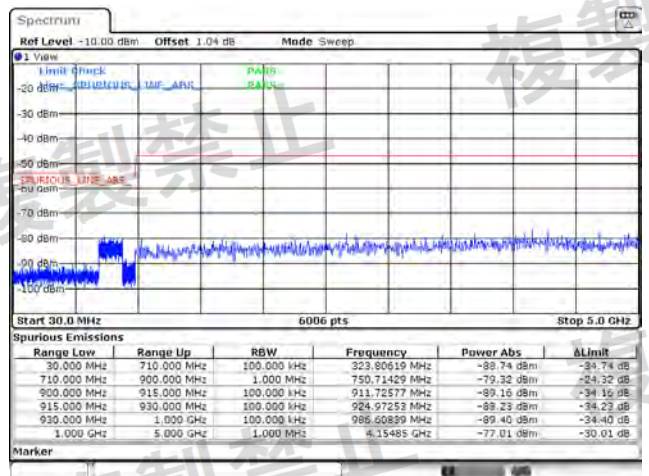
Modulation	Frequency (MHz)	Frequency Range (MHz)	Reading Frequency (MHz)	RBW (Hz)	Reading Level (dBm)	Limit (dBm)
OFDM (2 MHz)	923.5	30-710	705.58	100k	-90.09	-54
		710-900	865.16	1M	-80.34	-55
		900-915	902.16	100k	-89.72	-55
		915-930	915.39	100k	-89.96	-54
		930-1000	973.53	100k	-88.43	-55
		1000-5000	2412.59	1M	-73.76	-47
	925.5	30-710	54.79	100k	-89.32	-54
		710-900	744.26	1M	-80.09	-55
		900-915	903.31	100k	-89.47	-55
		915-930	928.25	100k	-88.42	-54
		930-1000	966.88	100k	-89.87	-55
		1000-5000	4906.09	1M	-78.73	-47
	926.5	30-710	359.13	100k	-90.00	-54
		710-900	887.18	1M	-79.89	-55
		900-915	911.74	100k	-89.38	-55
		915-930	923.89	100k	-89.26	-54
		930-1000	968.42	100k	-88.84	-55
		1000-5000	2412.59	1M	-69.50	-47

Modulation	Frequency (MHz)	Frequency Range (MHz)	Reading Frequency (MHz)	RBW (Hz)	Reading Level (dBm)	Limit (dBm)
OFDM (4 MHz)	924.5	30-710	287.12	100k	-90.18	-54
		710-900	810.69	1M	-79.86	-55
		900-915	914.60	100k	-88.90	-55
		915-930	929.09	100k	-87.76	-54
		930-1000	947.79	100k	-87.77	-55
		1000-5000	2412.59	1M	-74.73	-47
	925.5	30-710	667.54	100k	-89.59	-54
		710-900	763.24	1M	-79.08	-55
		900-915	913.01	100k	-89.50	-55
		915-930	924.02	100k	-89.30	-54
		930-1000	995.06	100k	-89.38	-55
		1000-5000	4274.73	1M	-76.67	-47

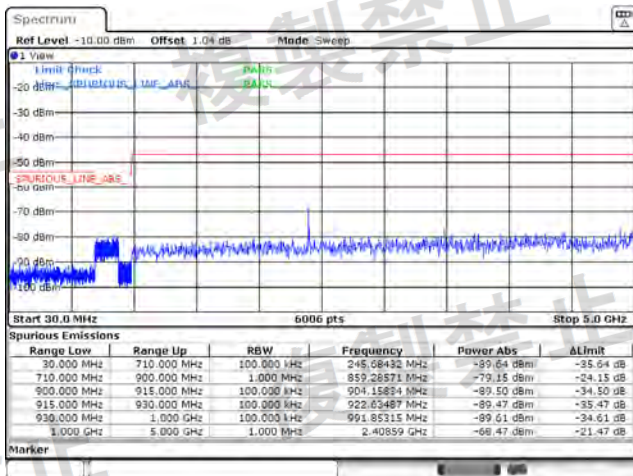
OFDM (1 MHz) / 923 MHz



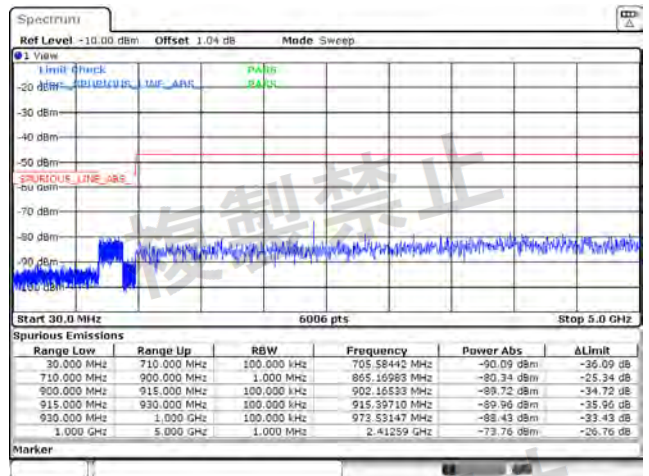
OFDM (1 MHz) / 925 MHz



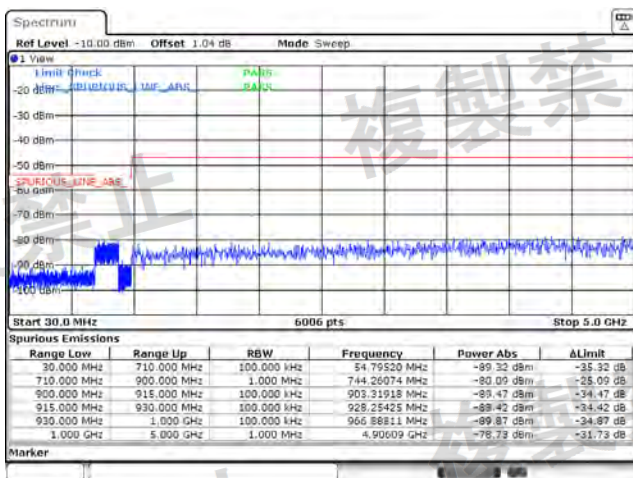
OFDM (1 MHz) / 927 MHz



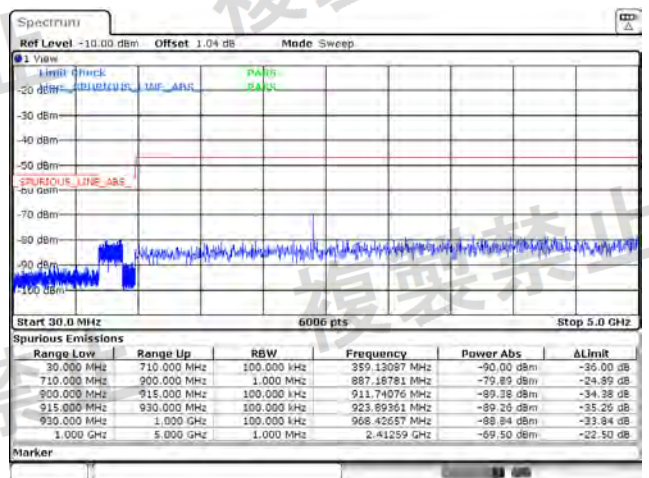
OFDM (2 MHz) / 923.5 MHz

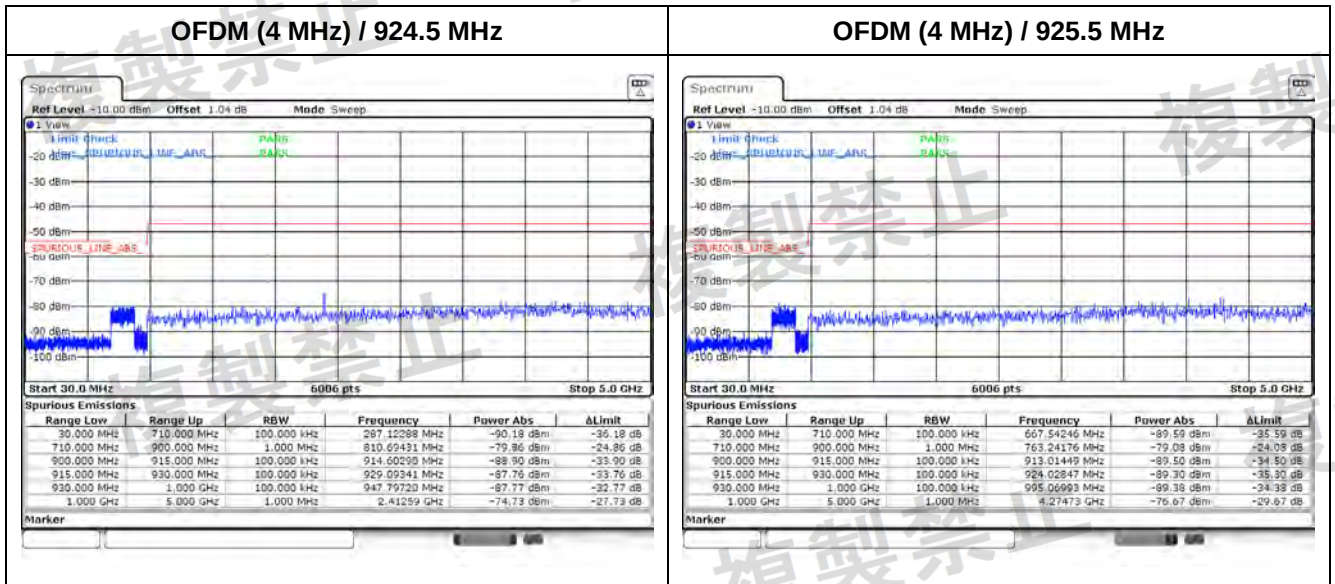


OFDM (2 MHz) / 925.5 MHz



OFDM (2 MHz) / 926.5 MHz

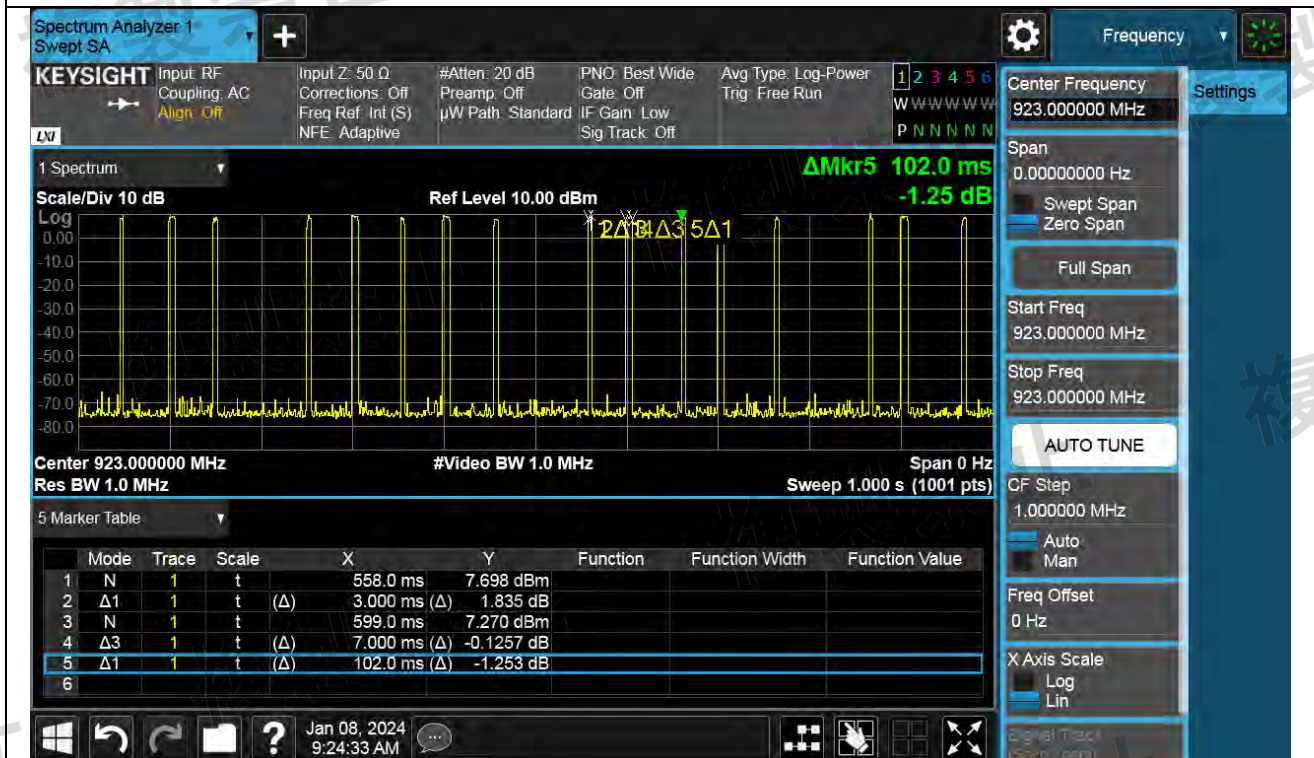




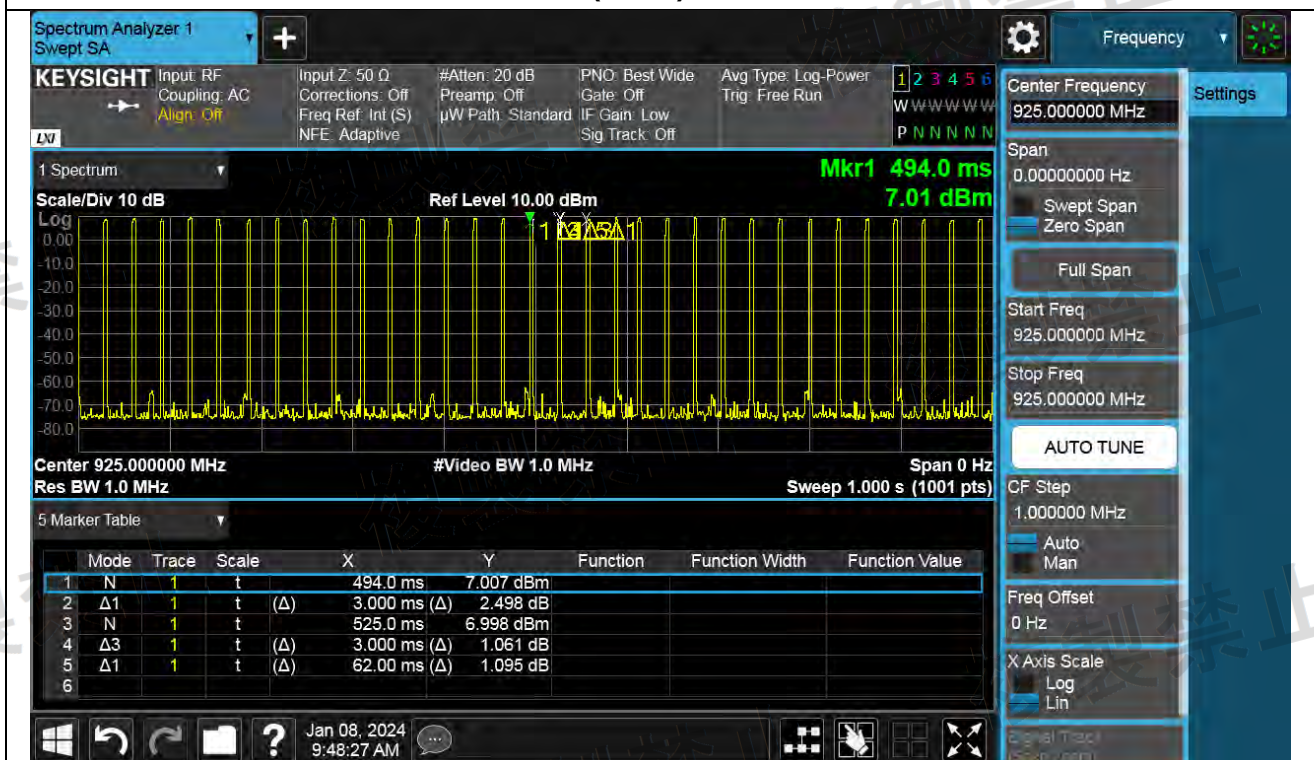
Appendix G. Test Result of Transmission Time

Modulation	Frequency (MHz)	Transmitter Time (ms)	Limit (ms)	Idle Time (ms)	Limit (ms)	On+Off Time (ms)	Duty Cycle (%)	Limit (%)
OFDM (1 MHz)	923	10.00	< 400	92.00	> 2	102.00	9.80	10
	925	6.00	< 400	56.00	> 2	62.00	9.68	10
	927	6.00	< 400	58.00	> 2	64.00	9.38	10
OFDM (2 MHz)	923.5	12.00	< 400	188.00	> 2	200.00	6.00	10
	925.5	6.00	< 400	94.00	> 2	100.00	6.00	10
	926.5	8.00	< 400	92.00	> 2	100.00	8.00	10
OFDM (4 MHz)	924.5	5.00	< 400	95.00	> 2	100.00	5.00	10
	925.5	9.00	< 400	91.00	> 2	100.00	9.00	10

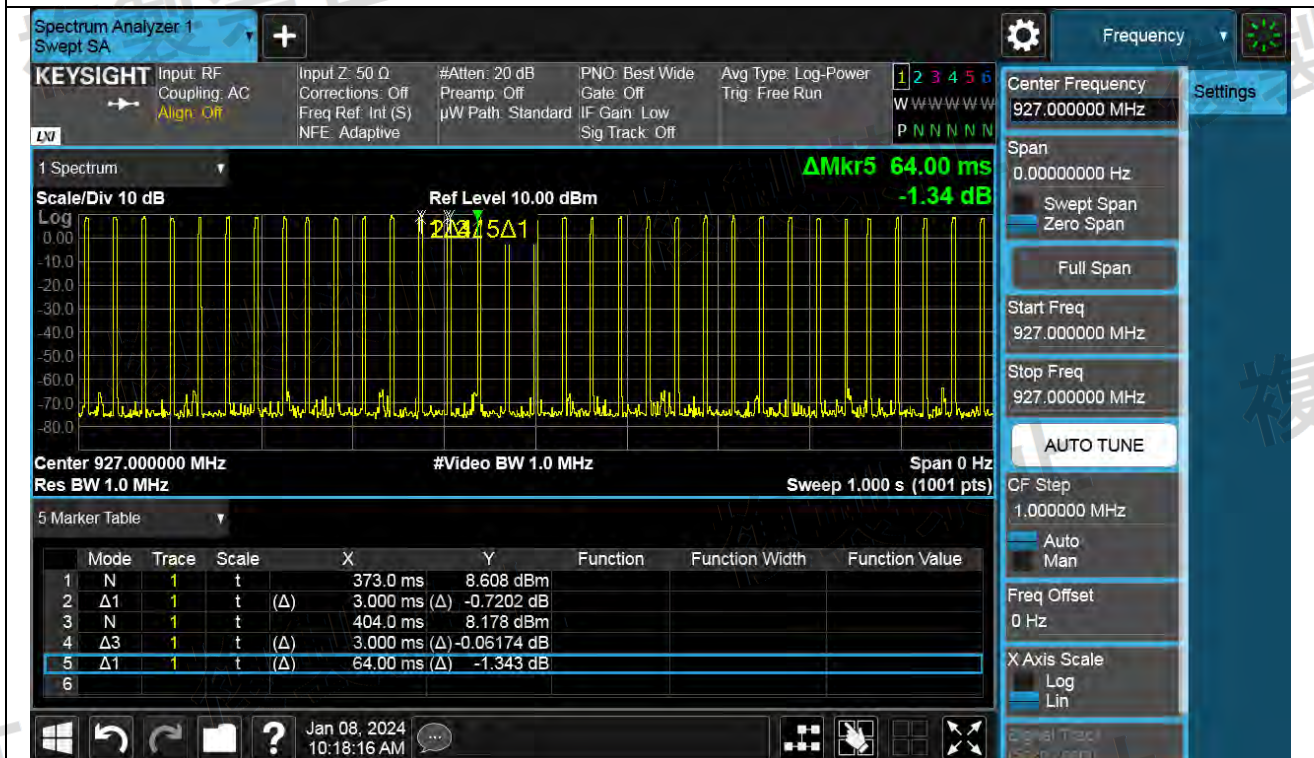
OFDM (1 MHz) / 923 MHz



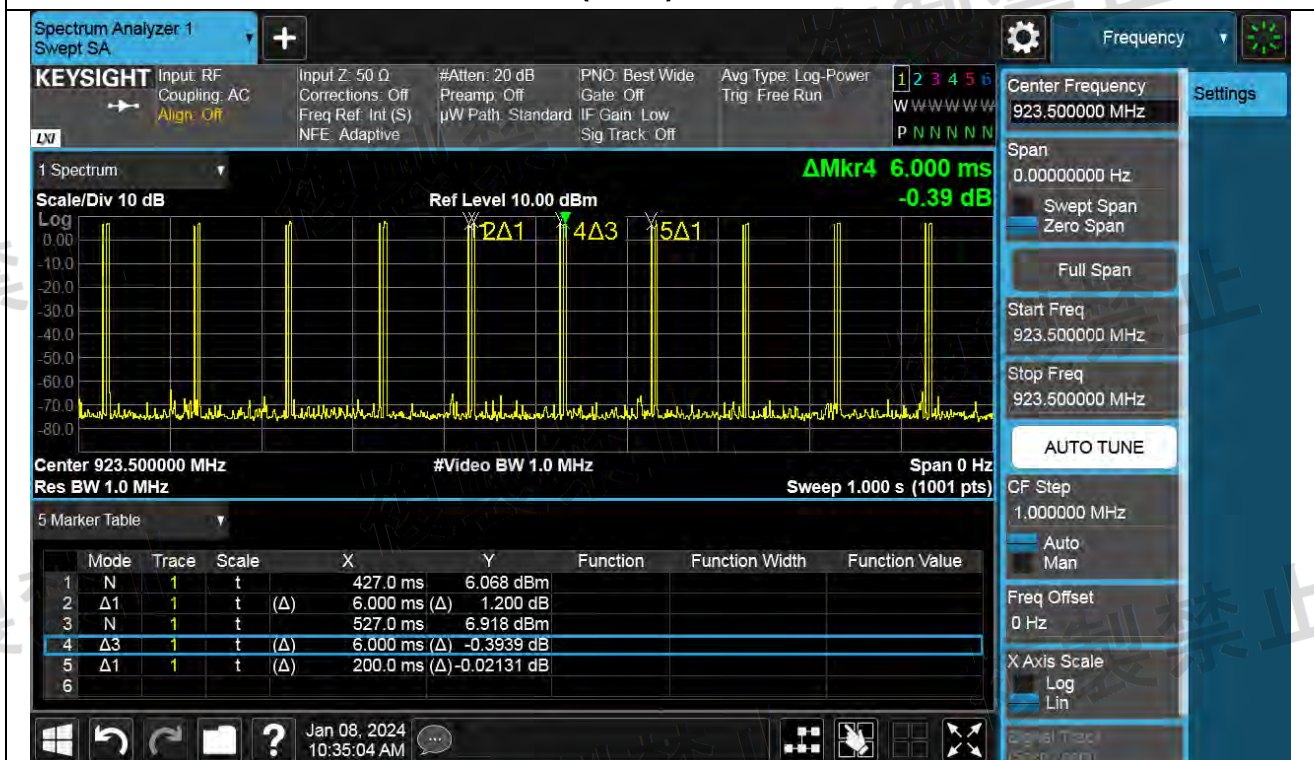
OFDM (1 MHz) / 925 MHz



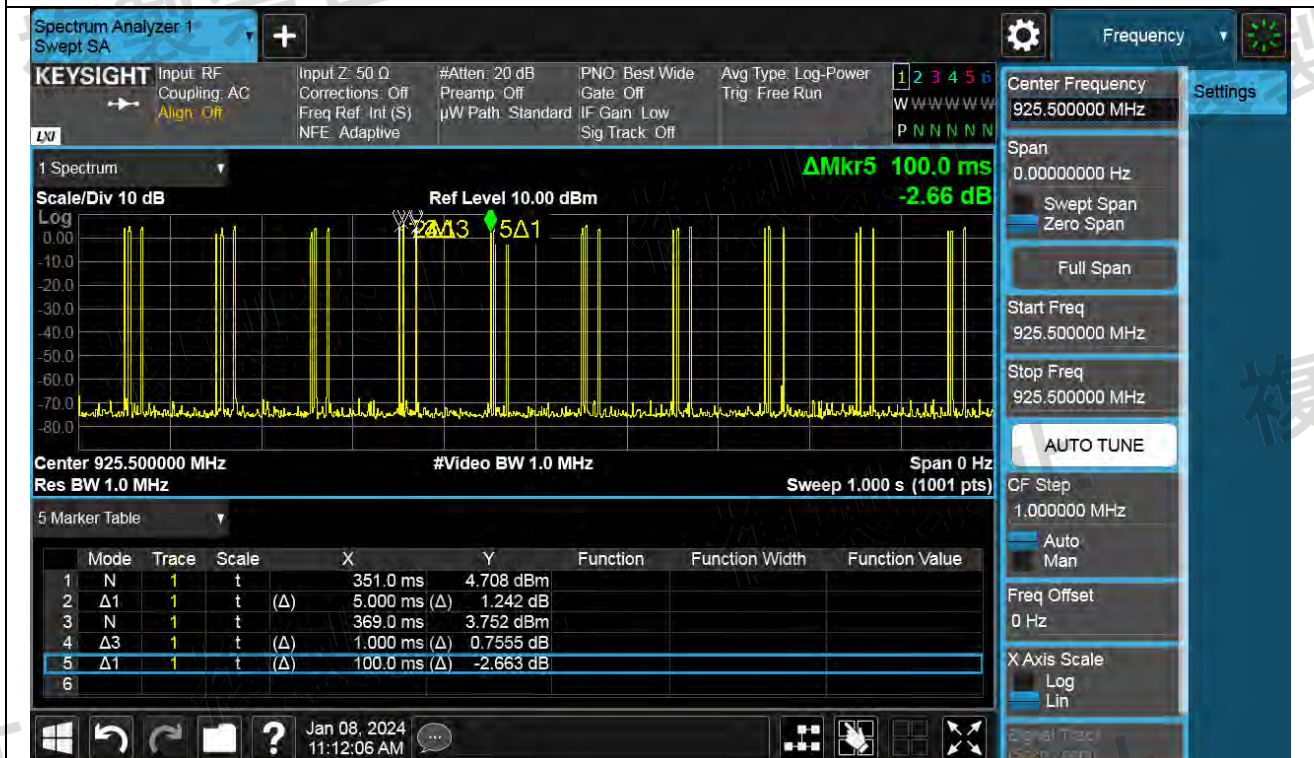
OFDM (1 MHz) / 927 MHz



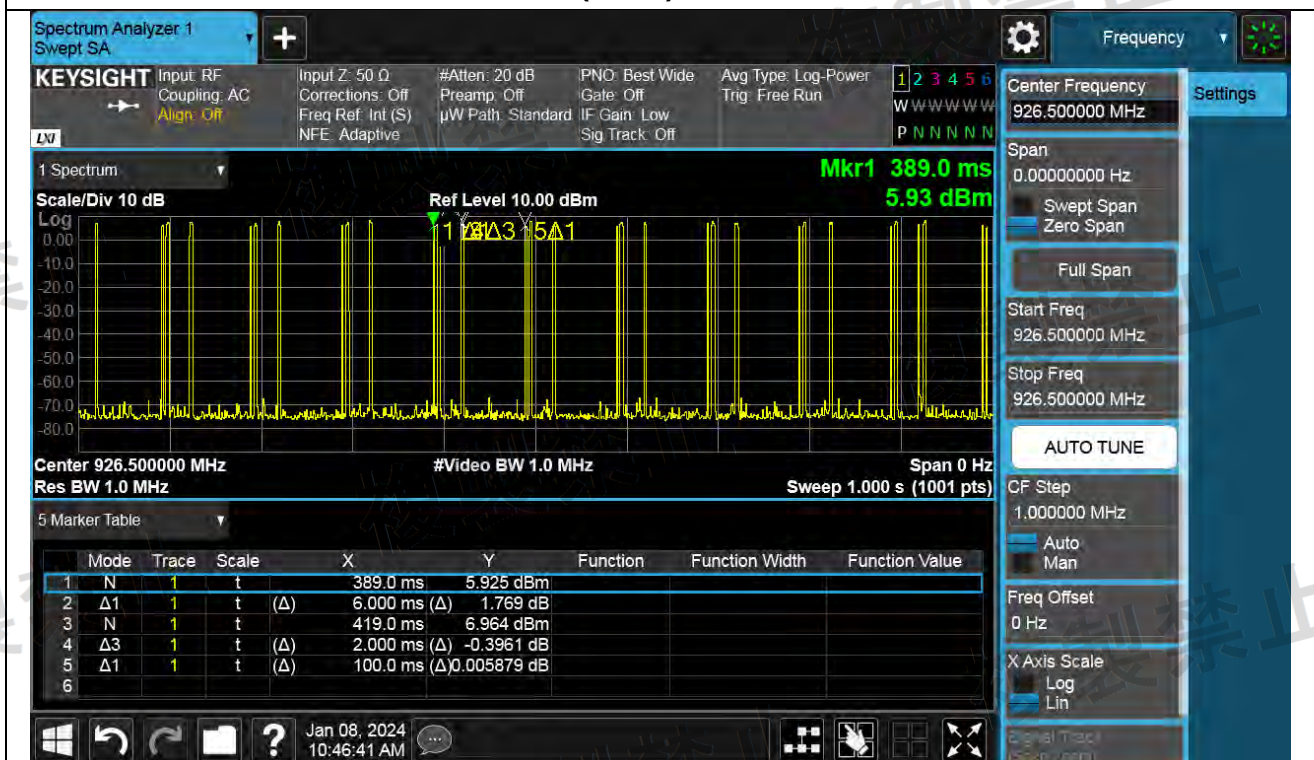
OFDM (2 MHz) / 923.5 MHz



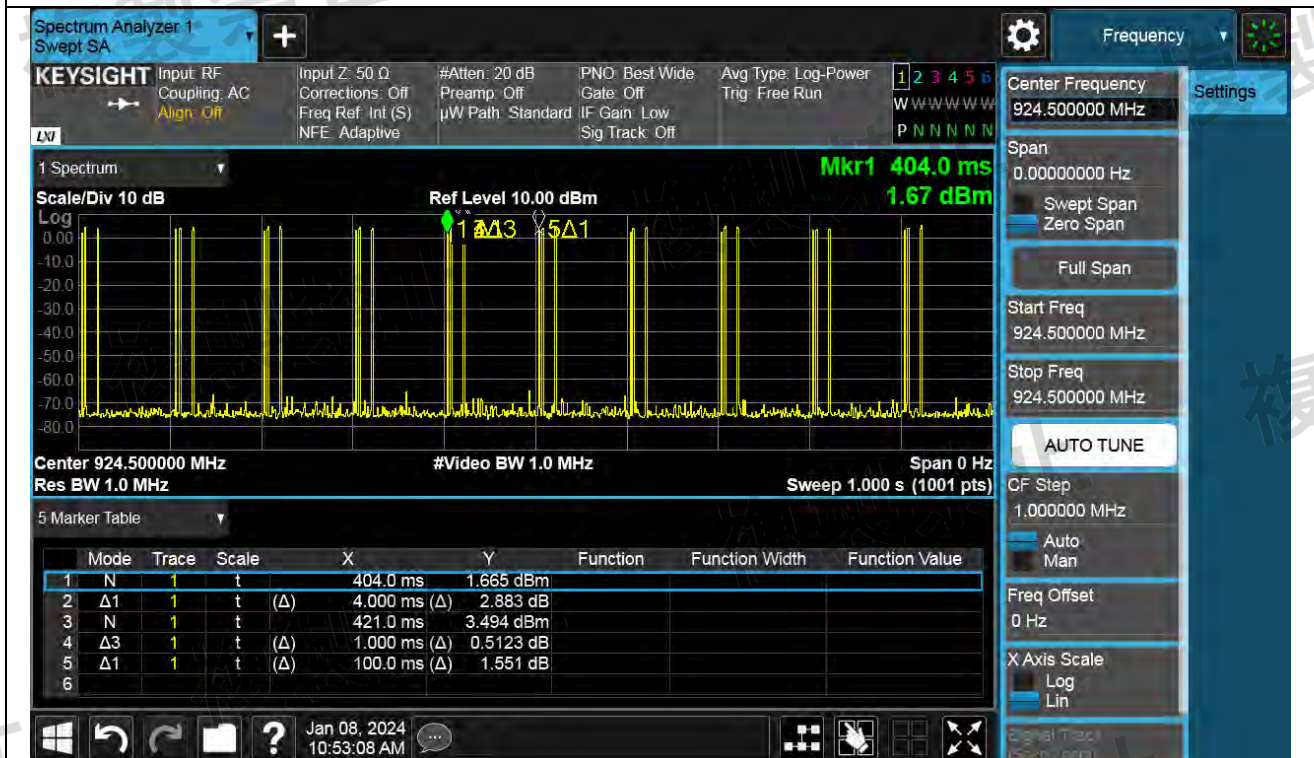
OFDM (2 MHz) / 925.5 MHz



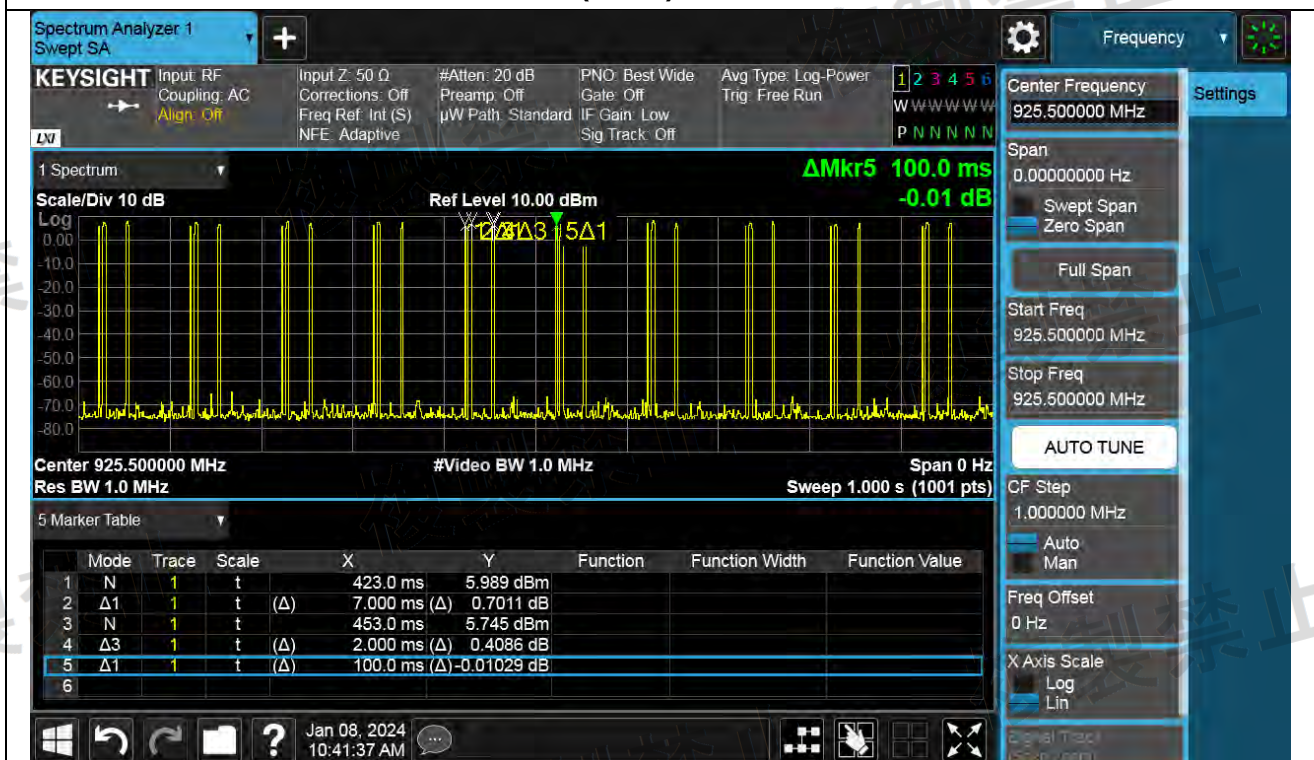
OFDM (2 MHz) / 926.5 MHz



OFDM (4 MHz) / 924.5 MHz



OFDM (4 MHz) / 925.5 MHz



Appendix H. Test Result of Carrier Sense

Modulation	Frequency (MHz)	Carrier Level (dBm)	C.F (dB)	SG Level (dBm)	Test Result
OFDM (1 MHz)	923	-75.00	24.60	-50.40	Pass
	925	-75.00	24.00	-51.00	Pass
	927	-75.00	23.50	-51.50	Pass
OFDM (2 MHz)	923.5	-75.00	24.50	-50.50	Pass
	925.5	-75.00	23.90	-51.10	Pass
	926.5	-75.00	23.60	-51.40	Pass
OFDM (4 MHz)	924.5	-75.00	24.20	-50.80	Pass
	925.5	-75.00	23.90	-51.10	Pass

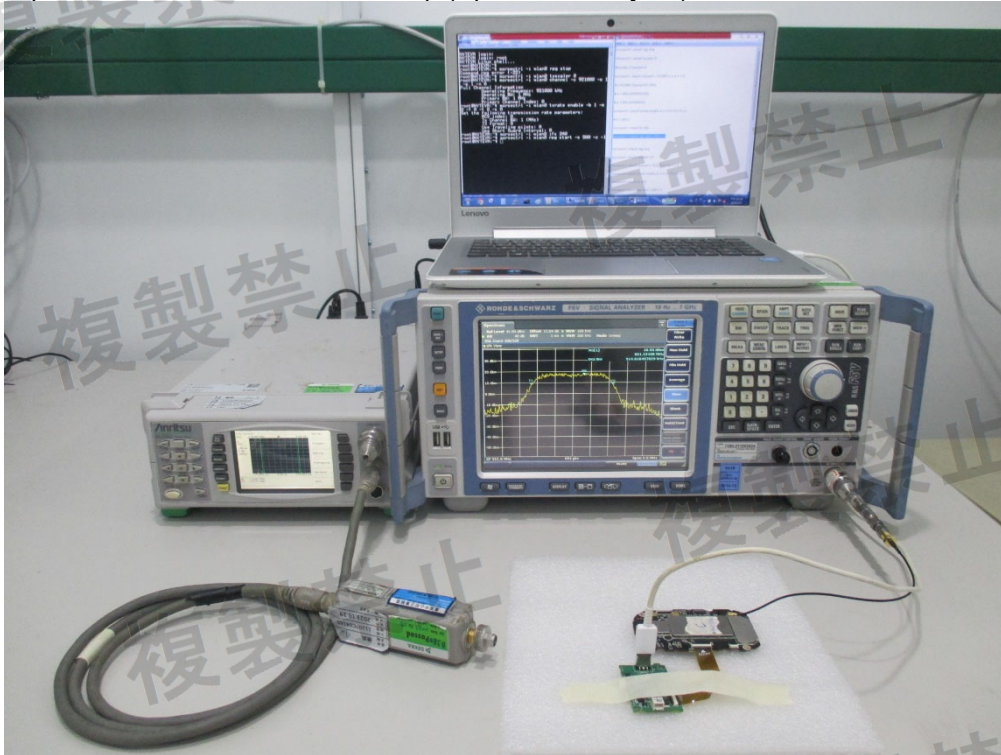
Note:

Carrier Level is displayed on the Spectrum Analyzer.

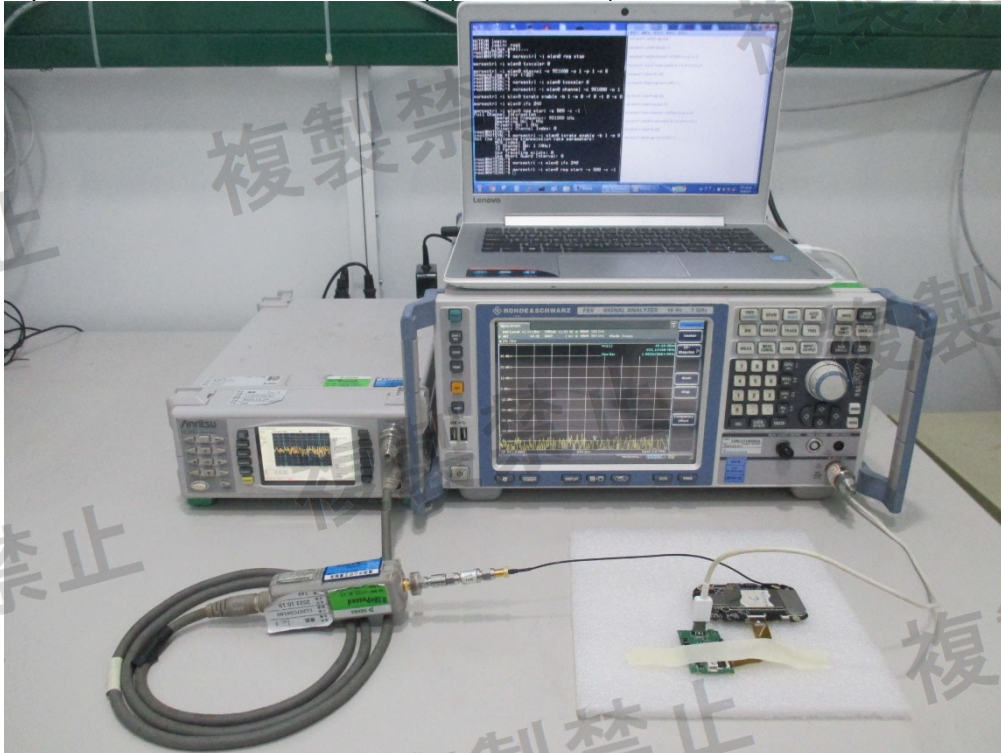
SG Level is from the Signal Generator.

Appendix I. Test Photograph

Description : Other Test Items Test Setup (Spectrum Analyzer)



Description : Other Test Items Test Setup (Power Meter)



Description : Carrier Sense Test Setup

