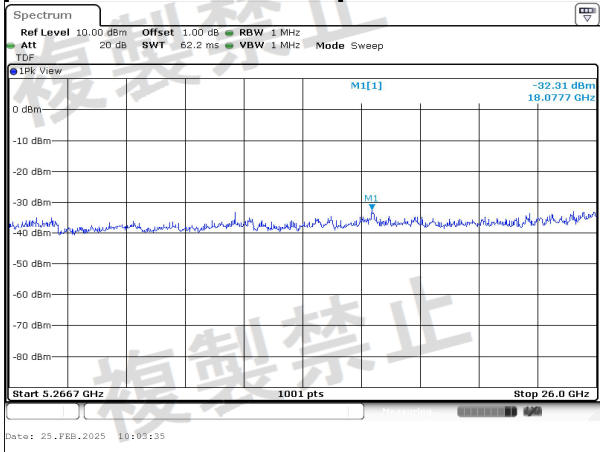


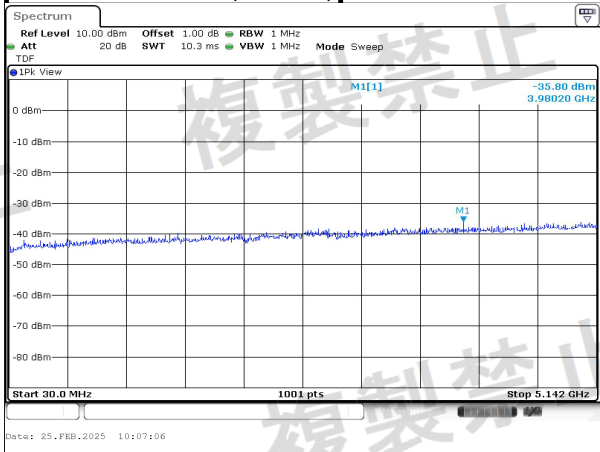
5266.7MHz-26GHz(Search)



5266.7MHz-26GHz(Detail)



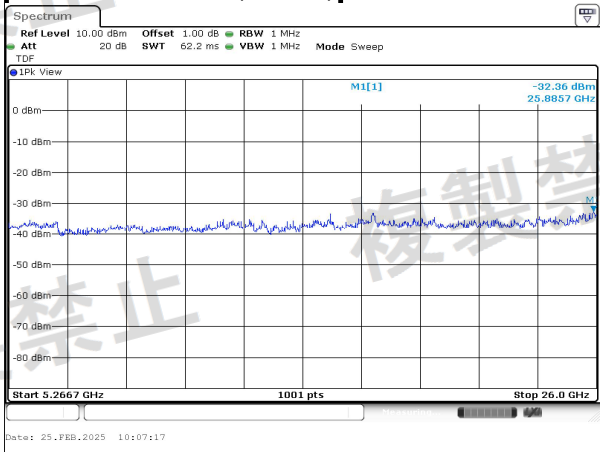
Ch.48: 5240MHz 30MHz-5142MHz(Search)



30MHz-5142MHz(Detail)



5266.7MHz-26GHz(Search)

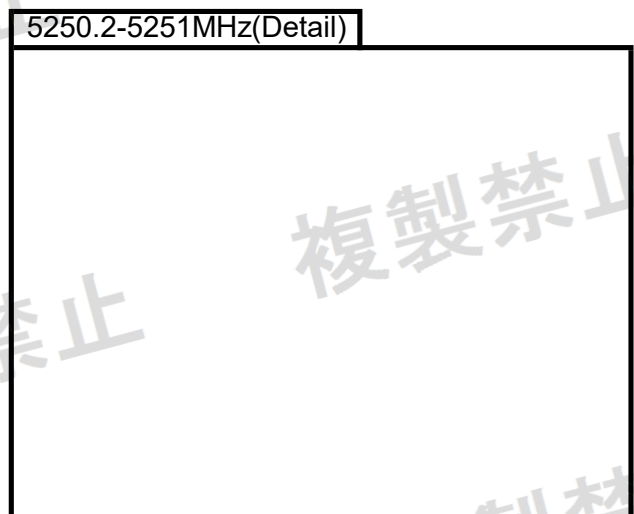
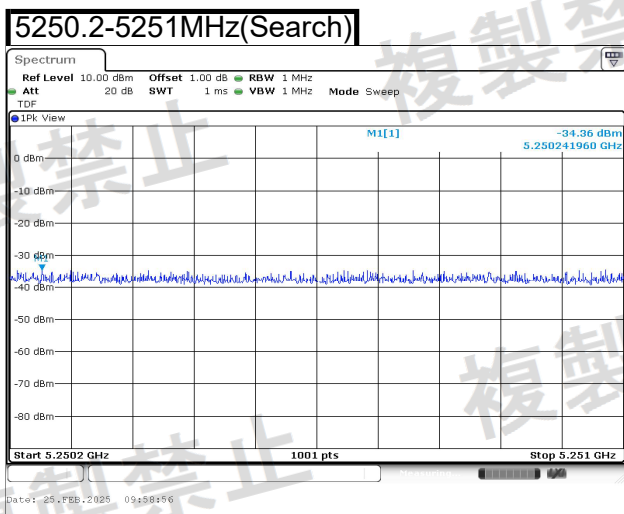
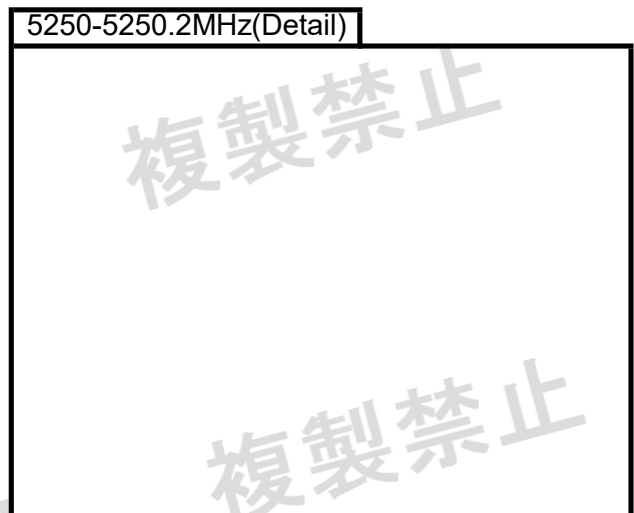
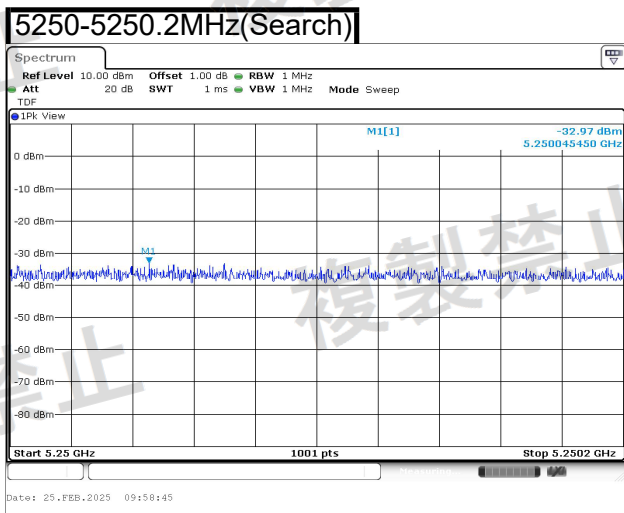
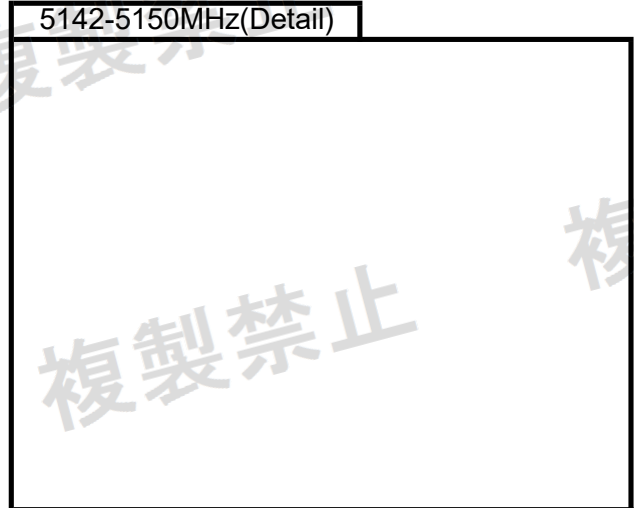
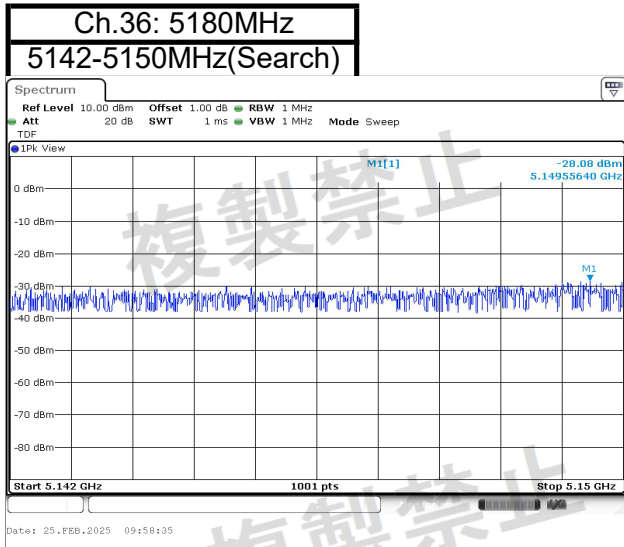


5266.7MHz-26GHz(Detail)

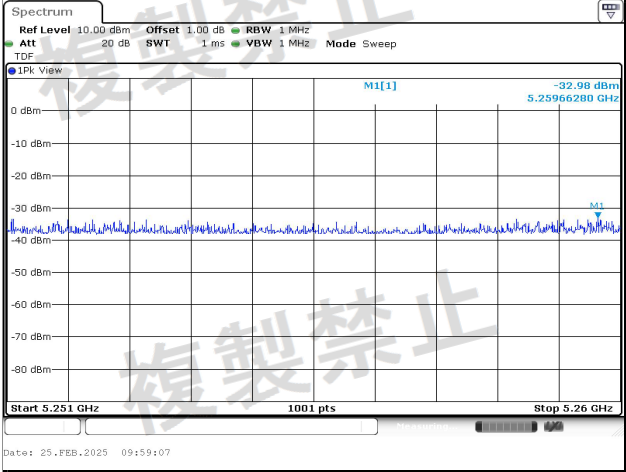


7. Test chart

7.6 Out-Band Leakage Power (Rated voltage)



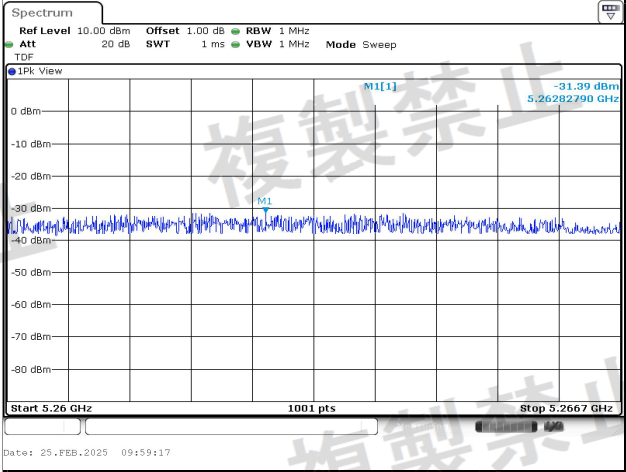
5251-5260MHz(Search)



5251-5260MHz(Detail)



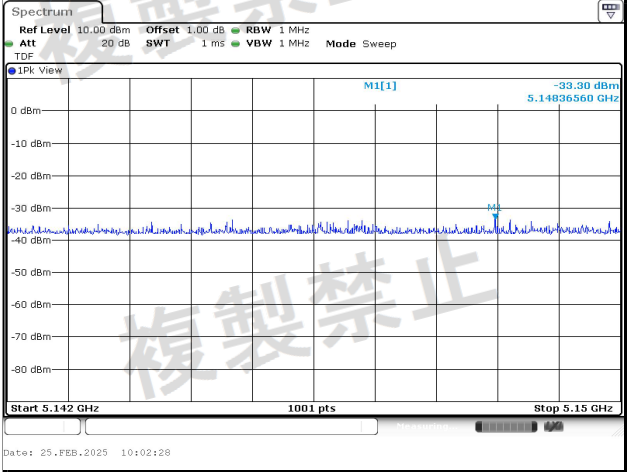
5260-5266.7MHz(Search)



5260-5266.7MHz(Detail)



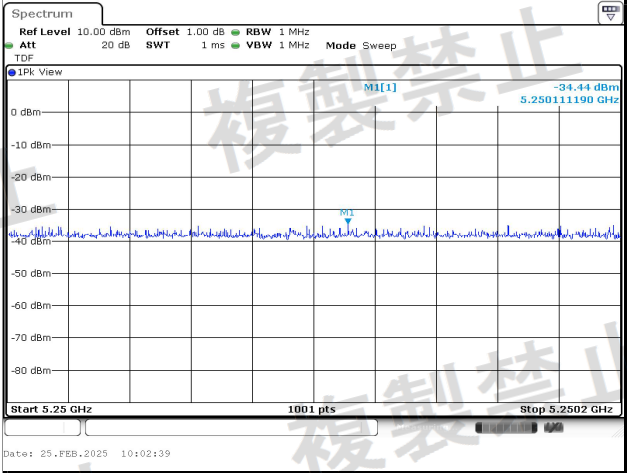
Ch.40: 5200MHz
5142-5150MHz(Search)



5142-5150MHz(Detail)



5250-5250.2MHz(Search)



5250-5250.2MHz(Detail)



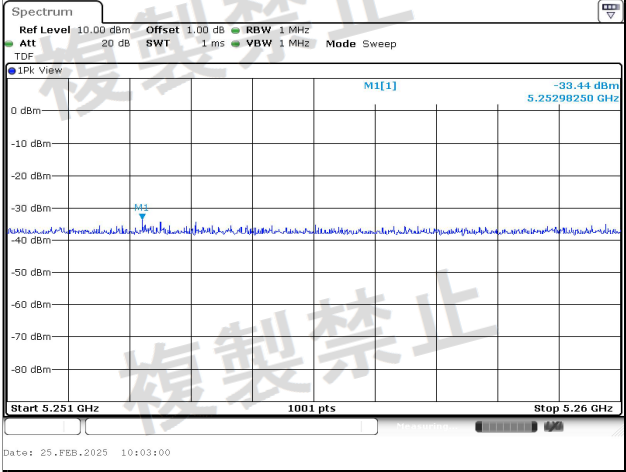
5250.2-5251MHz(Search)



5250.2-5251MHz(Detail)



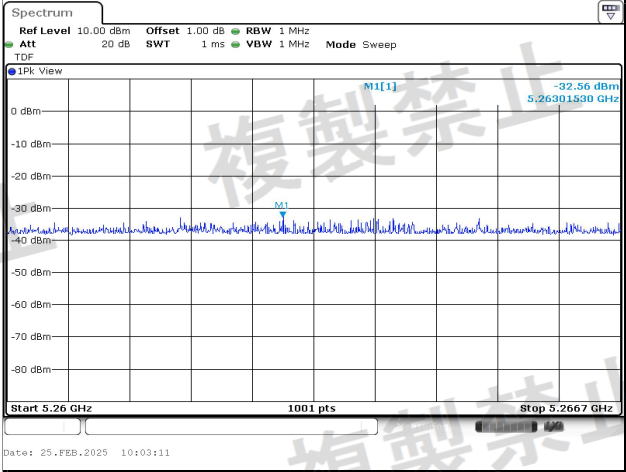
5251-5260MHz(Search)



5251-5260MHz(Detail)



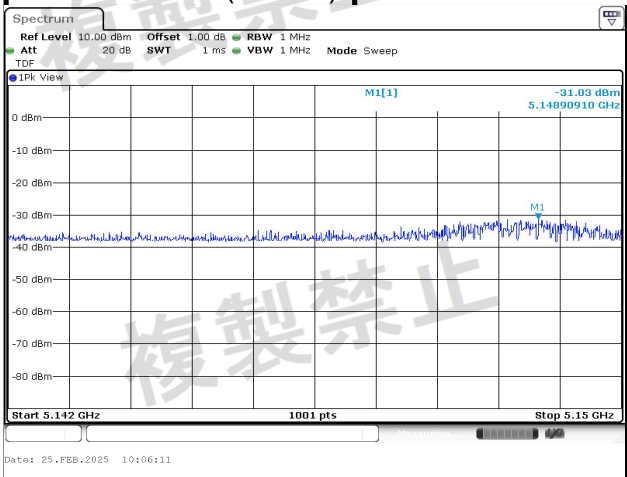
5260-5266.7MHz(Search)



5260-5266.7MHz(Detail)



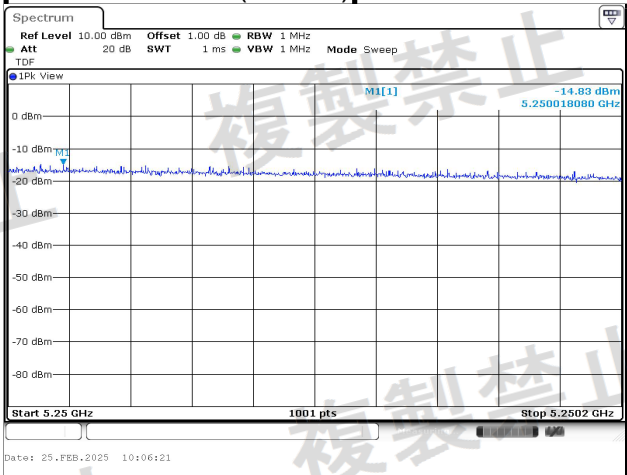
Ch.48: 5240MHz
5142-5150MHz(Search)



5142-5150MHz(Detail)



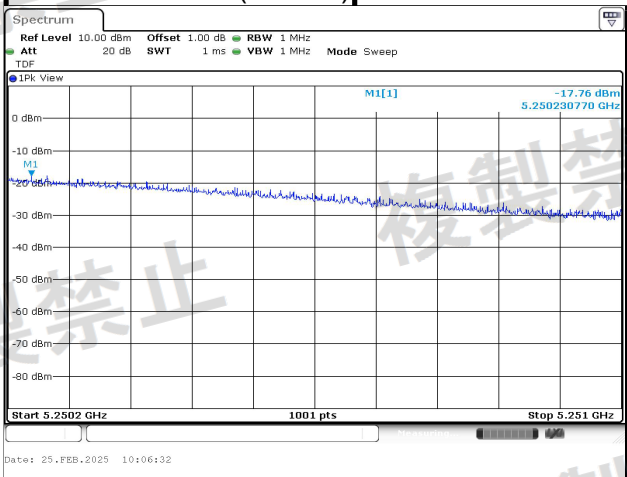
5250-5250.2MHz(Search)



5250-5250.2MHz(Detail)



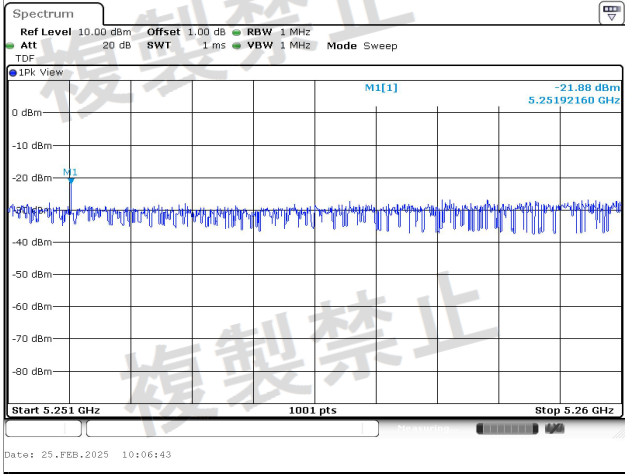
5250.2-5251MHz(Search)



5250.2-5251MHz(Detail)



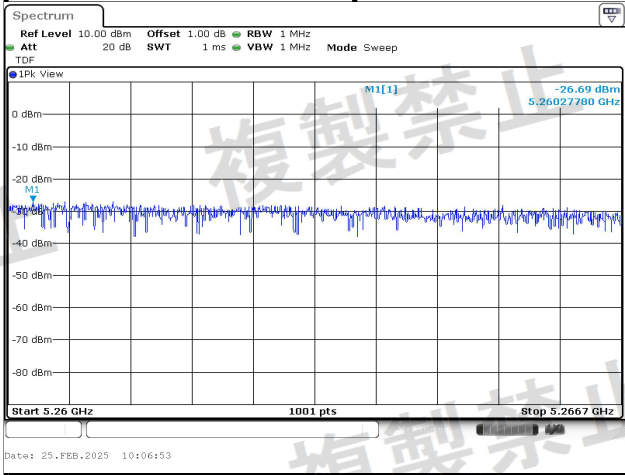
5251-5260MHz(Search)



5251-5260MHz(Detail)



5260-5266.7MHz(Search)

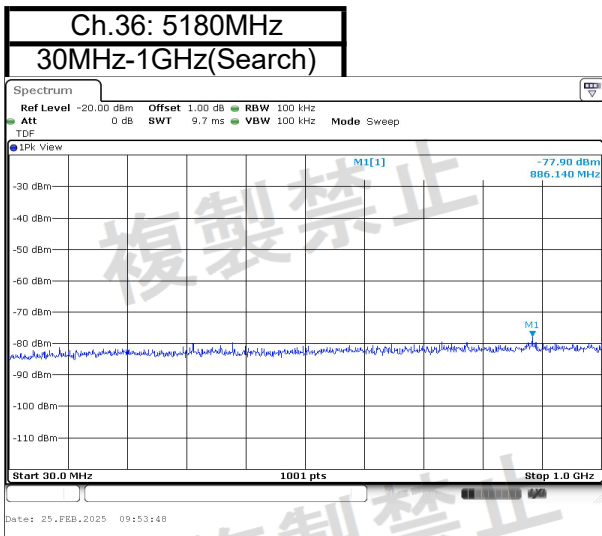


5260-5266.7MHz(Detail)

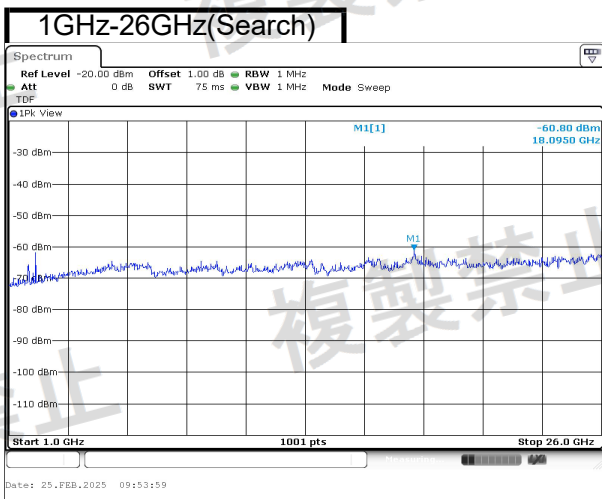


7. Test chart

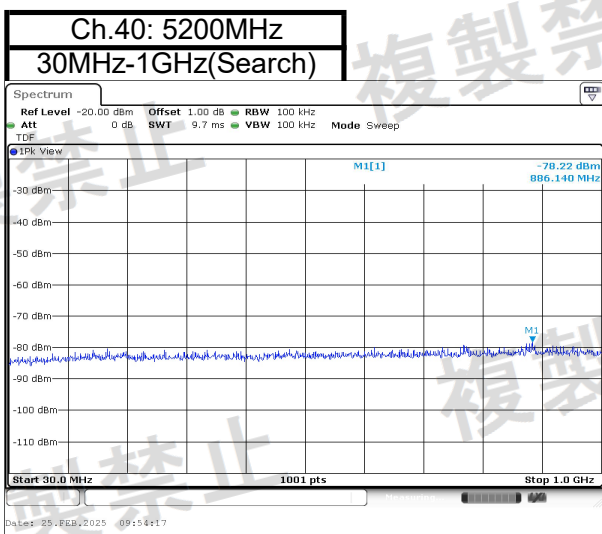
7.7 Secondary emitted radio wave strength (Rated voltage)



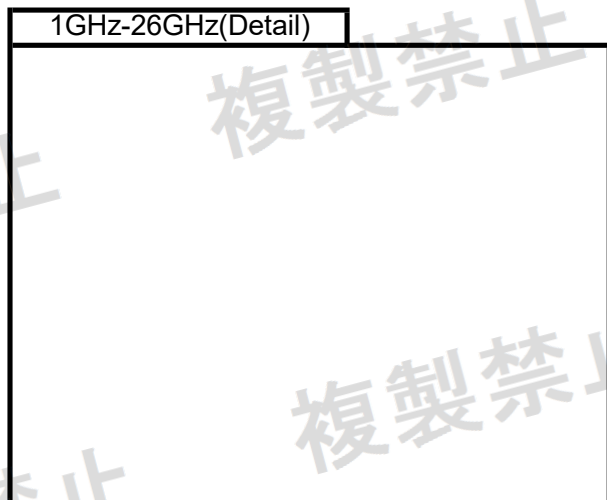
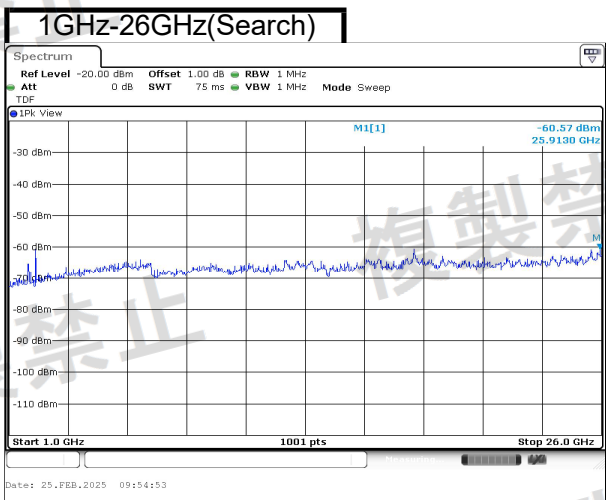
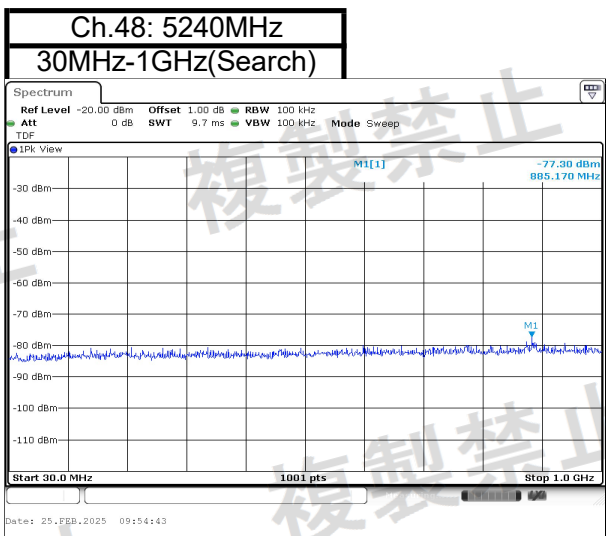
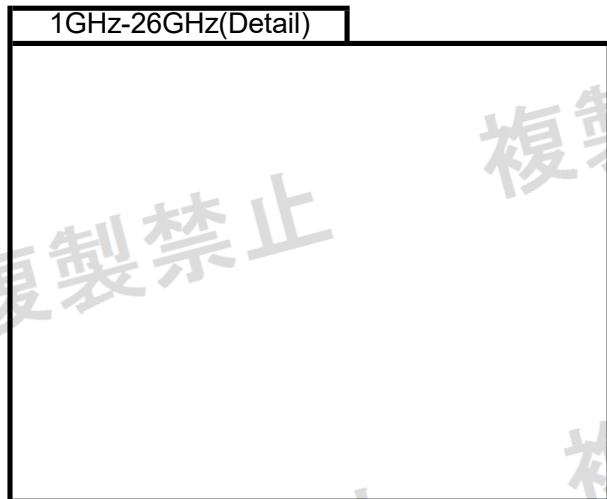
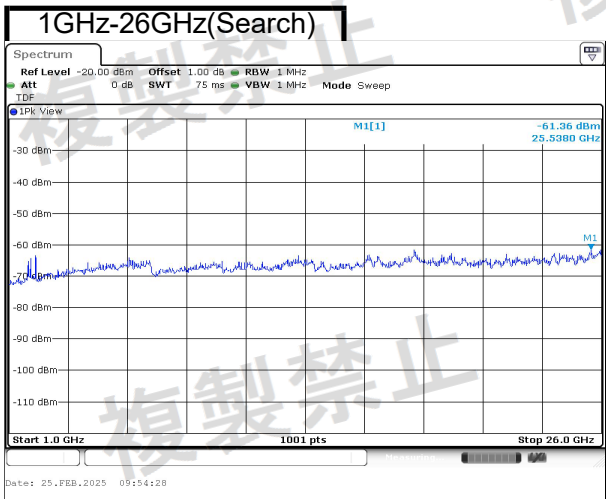
30MHz-1GHz(Detail)



1GHz-26GHz(Detail)

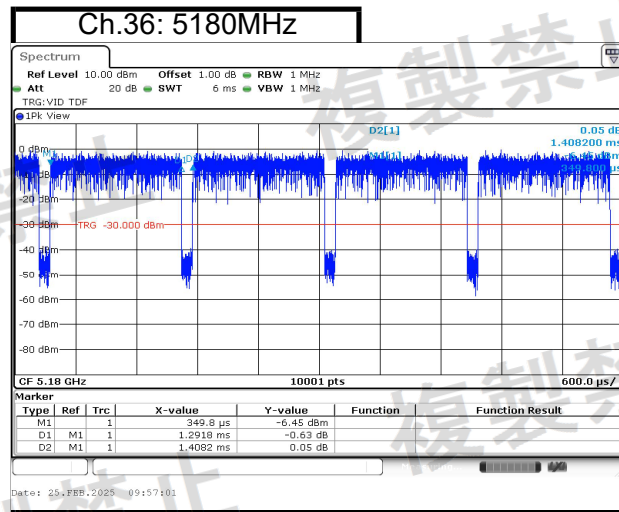


30MHz-1GHz(Detail)



7. Test chart

7.8 Burst Length of Transmitted Signals (Rated voltage)



3. Test results (Rated voltage)

S/N : TP-54

Environment of test room	Date of test	2025-02-24	2025-02-25	2025-03-24
	Temperature	24 °C	25 °C	23 °C
	Humidity	51 %	52 %	51 %

Peak Antenna Gain	-2.52	dBi
Declaration Output Power	0.50	mW/MHz
	-3.01	dBm/MHz
E.I.R.P	0.28	mW/MHz
	-5.53	dBm/MHz
Input Power Voltage	3.80	VDC

Test category		IEEE802.11n HT40	
Tested Circuit Insertion Loss		0.00	dB
Transmission Time	ON TIME (1sec or less)	0.649	ms
	OFF TIME (0.1sec or more)	0.107	ms
	Ratio	0.858	%

Using TDF and offset function in Spectrum Analyze

Measurement of plots are included Loss value.

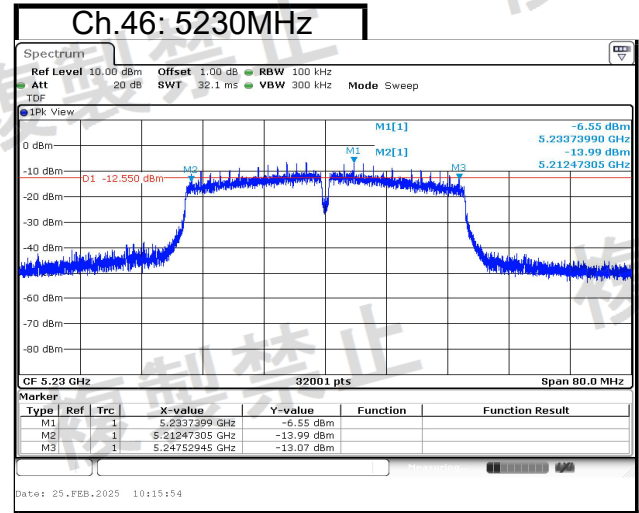
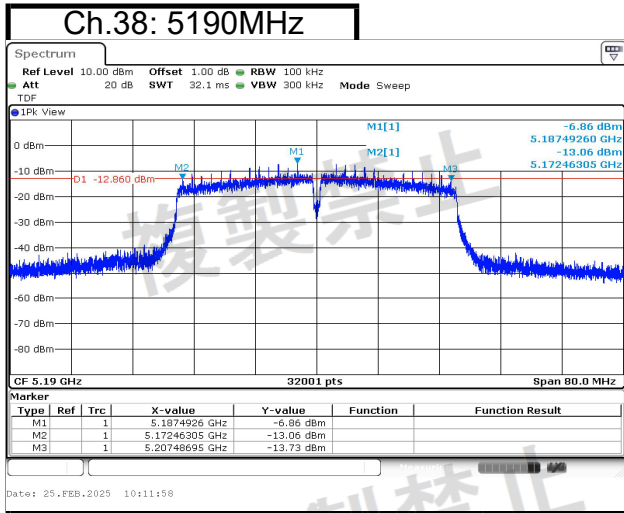
(Att : 10dB + Cable loss + EUT cable: 1dB offset)

Test category :	5GHz Band Low-Power Data Communication System (802.11n HT40 W52)
The reason why the tests are performed only at rated voltage :	The fluctuation of input voltage to the circuit of the radio part of the equipment to be tested is identified as being less than ± 1 % when input voltage from an external supply into the equipment fluctuates ± 10 %.

Measurement Channel		Ch.	38	46		
Measurement Frequency		MHz	5190	5230	Result	Limit
Frequency Measurements		MHz	5189.975	5230.001	----	----
Frequency Tolerance		ppm	-4.82	0.24	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth		MHz	35.86	35.89	PASS	40MHz or below
RF Output Power		mW/MHz	0.18	0.21	PASS	5mW/MHz or below
RF Output Power Tolerance		%	-63.57	-58.84	PASS	+20% to -80%
Unwanted (Spurious) Emission Strength	30MHz to 5141.6MHz	uW/MHz	0.67	0.16	PASS	2.5uW/MHz or below
		MHz	5123.70	5103.30	----	----
	5278.4MHz to 26GHz	uW/MHz	0.35	0.31	PASS	2.5uW/MHz or below
		MHz	25906.40	25989.40	----	----
Adjacent Channel Leakage Power	cf	dB	6.11	6.88	----	----
	cf -40MHz	dB	-37.17	-36.64	PASS	-25dBc or below
	cf +40MHz	dB	-39.37	-40.03	PASS	-25dBc or below
	cf -80MHz	dB	-48.41	-49.33	PASS	-40dBc or below
	cf +80MHz	dB	-49.73	-50.88	PASS	-40dBc or below
Out-band of Leakage Power	5141.6 to 5150MHz	uW/MHz	0.45	0.74	PASS	15uW/MHz or below
		MHz	5144.42	5146.91	----	----
	5250 to 5251MHz	uW/MHz	0.26	5.65	PASS	$10^{-(9.20+\log(10))}$ mW/MHz or below
		MHz	5250.86	5250.01	----	----
	Limit	uW/MHz	68.70	493.14	----	----
	5251 to 5270MHz	uW/MHz	0.59	1.56	PASS	$10^{-(9.20+\log(10))}$ mW/MHz or below
		MHz	5258.58	5251.05	----	----
	Limit	uW/MHz	23.97	49.77	----	----
	5270 to 5278.4MHz	uW/MHz	0.53	0.35	PASS	$10^{-(9.20+\log(10))}$ mW/MHz or below
		MHz	5271.26	5275.21	----	----
Limit	uW/MHz	6.66	3.86	----	----	
Secondary Emitted Radio Wave Strength	30MHz to 1000MHz	nW	0.01	0.01	PASS	4nW or below
		MHz	947.19	939.44	----	----
	1GHz to 26GHz	nW	0.68	0.66	PASS	20nW or below
		MHz	18095.00	25813.00	----	----
Burst Length of Transmitted Signals		----	Good	Good	PASS	8ms or below
Carrier Sensing Function		----	Good	Good	PASS	100mV/m
Interference Prevention Function		----	Good		PASS	

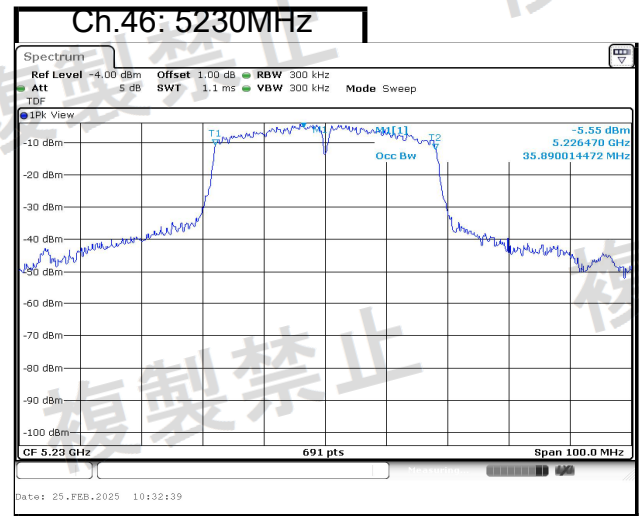
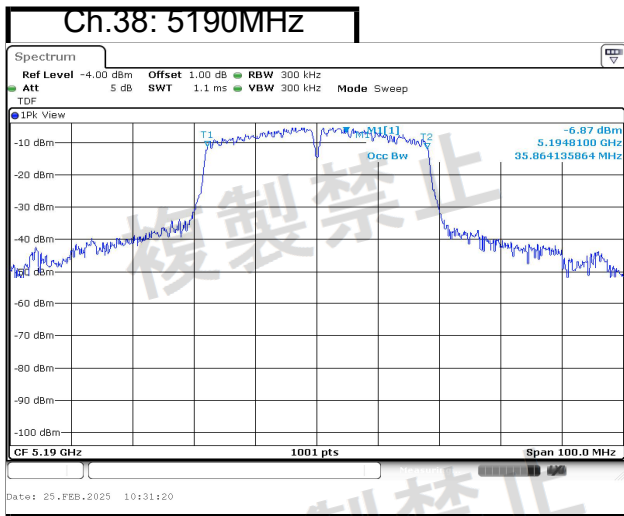
7. Test chart

7.1 Frequency tolerance (Rated voltage)



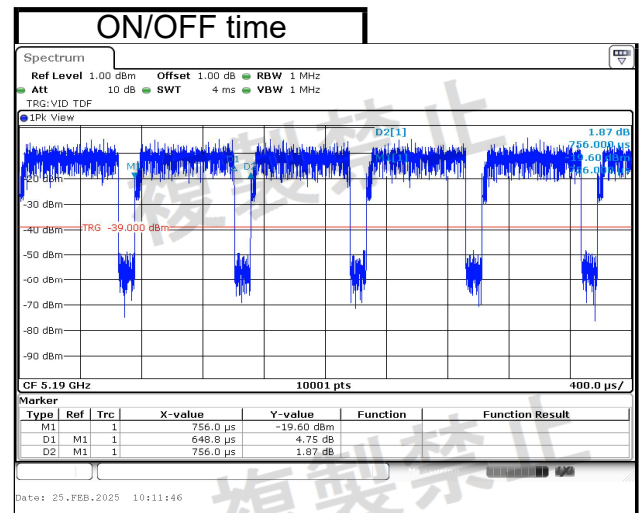
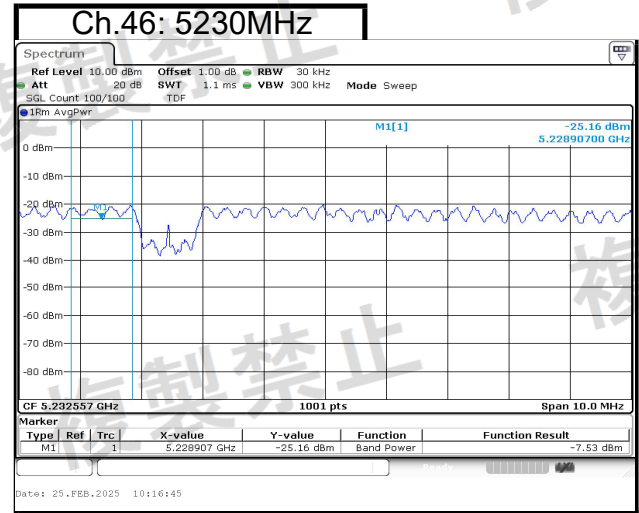
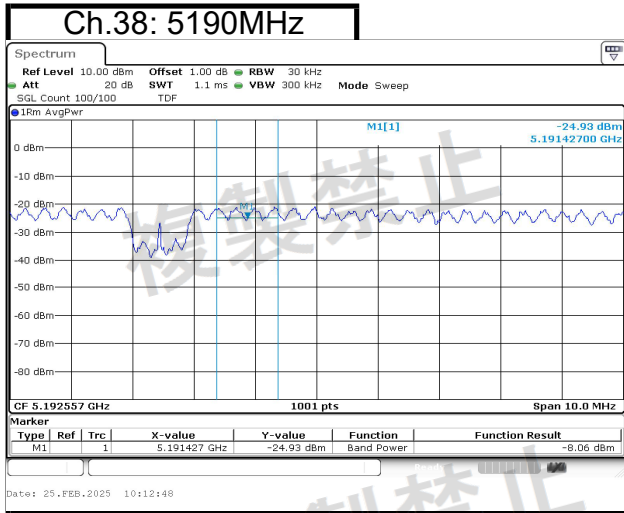
7. Test chart

7.2 Occupied bandwidth (Rated voltage)



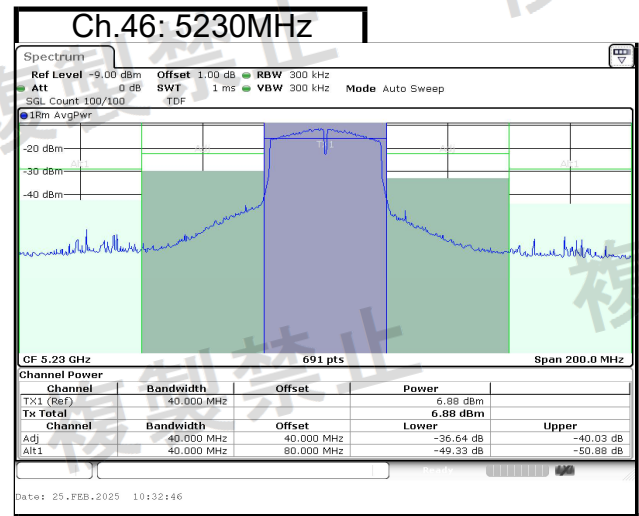
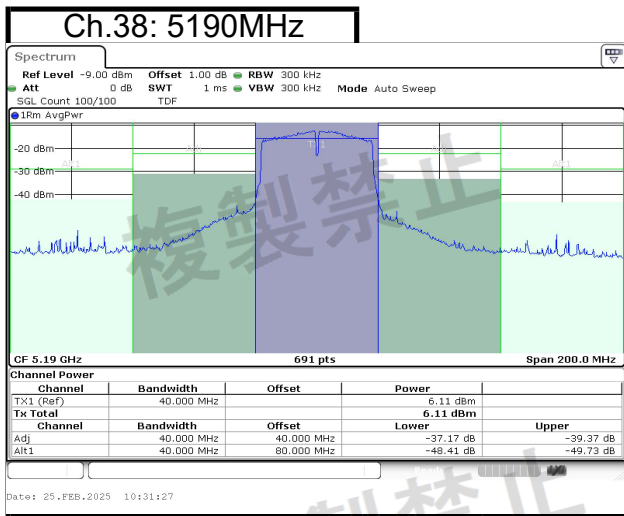
7. Test chart

7.3 RF output power tolerance (Rated voltage)



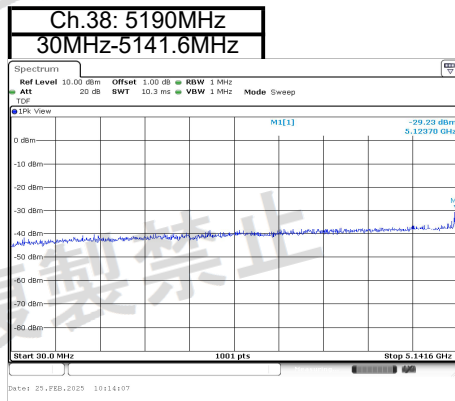
7. Test chart

7.4 Adjacent Channel Leakage Power (Rated voltage)

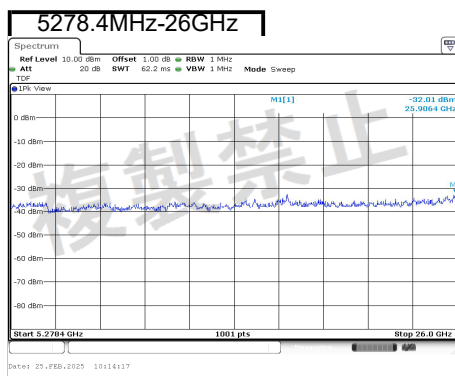


7. Test chart

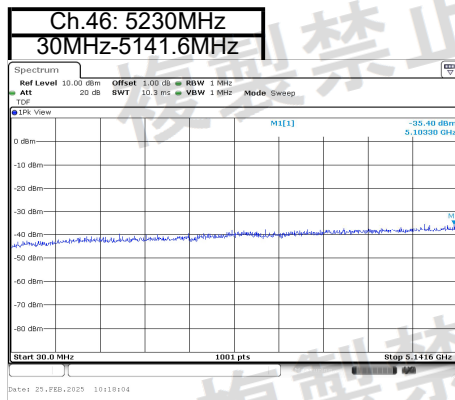
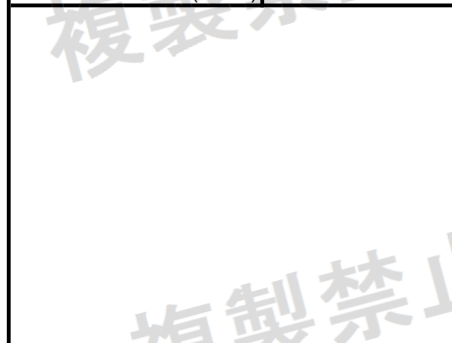
7.5 Unwanted(Spurious) emission strength (Rated voltage)



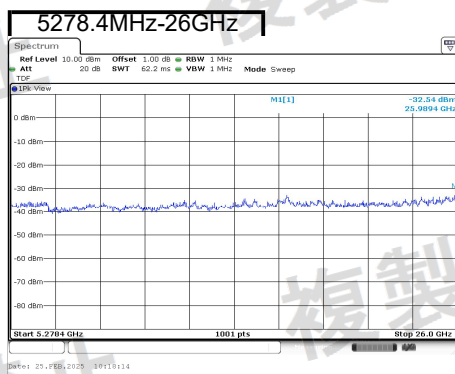
30MHz-5141.6MHz(Detail)



5278.4MHz-26GHz(Detail)



30MHz-5141.6MHz(Detail)

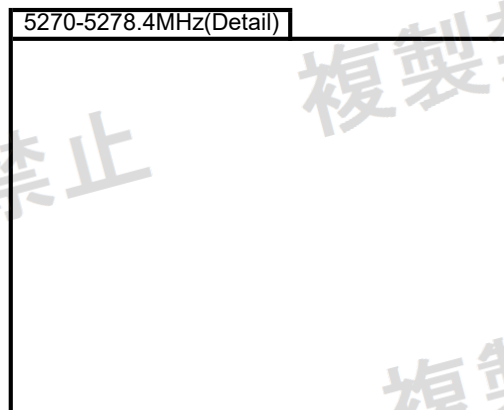
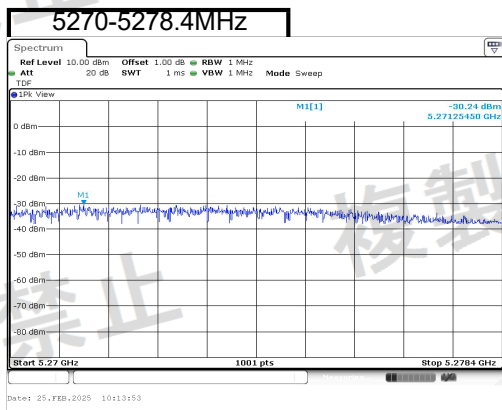
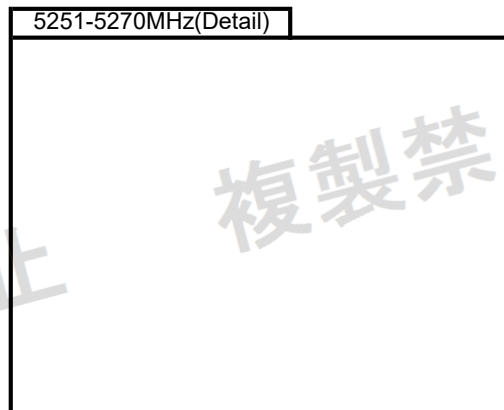
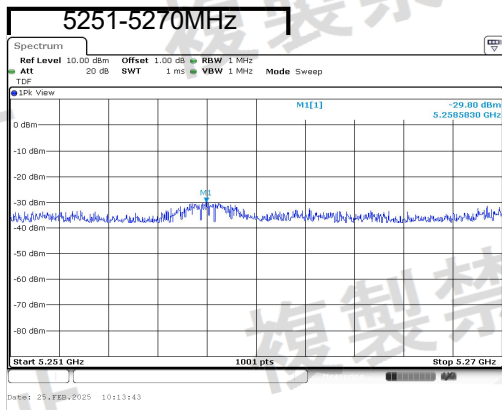
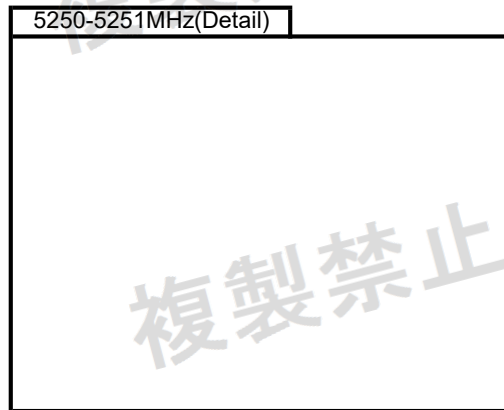
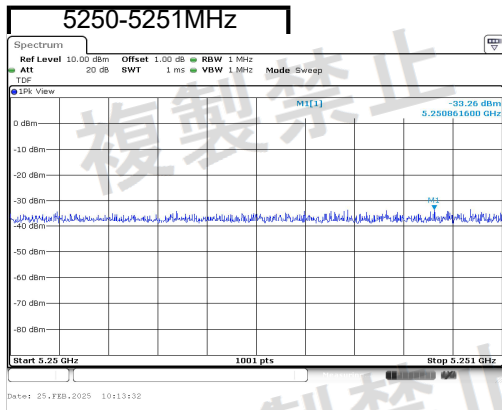
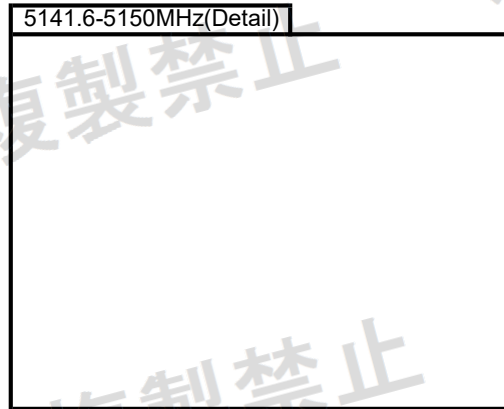
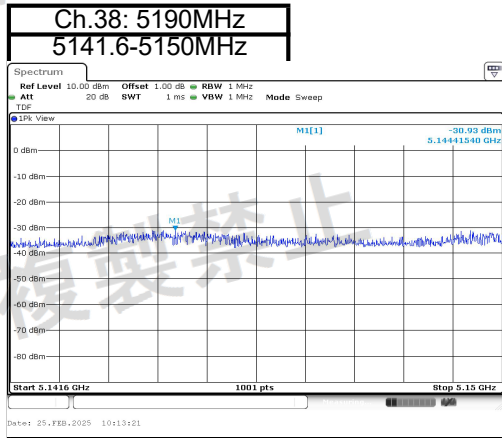


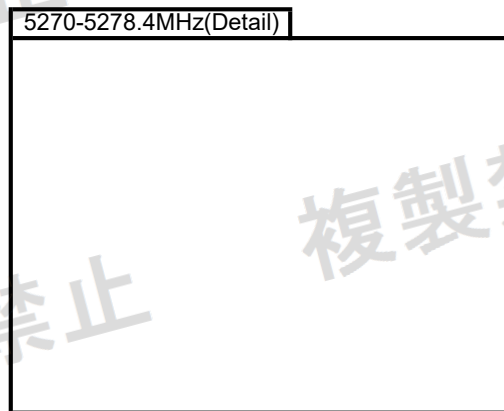
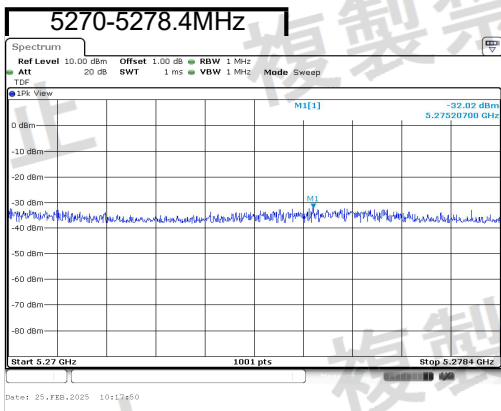
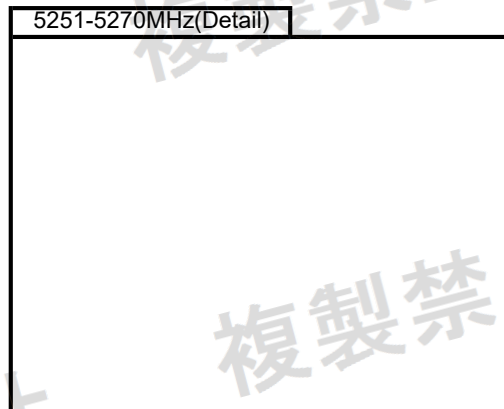
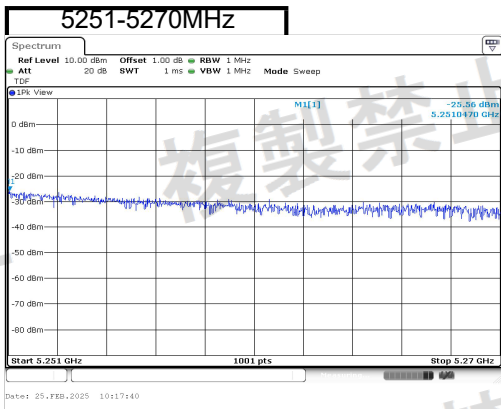
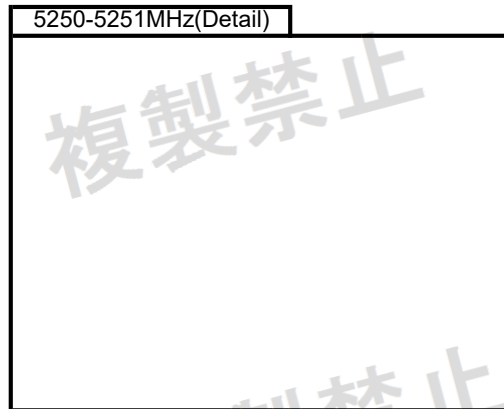
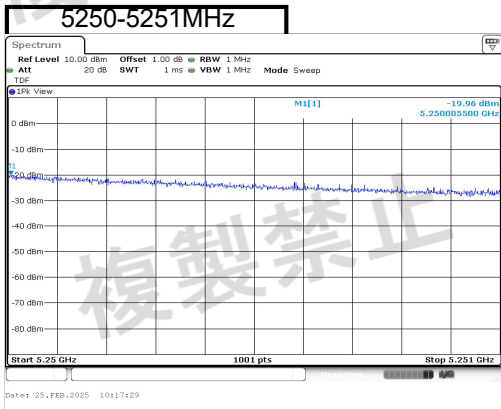
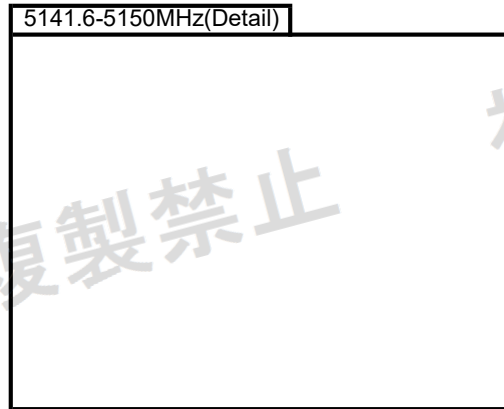
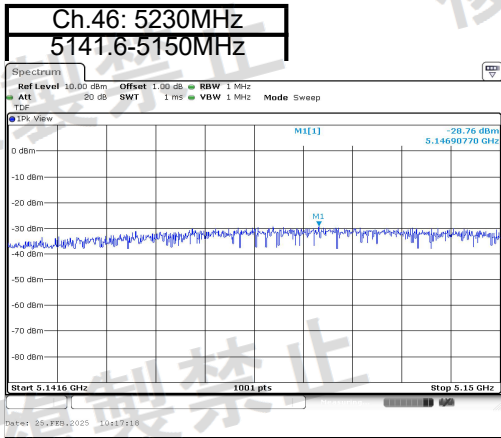
5278.4MHz-26GHz(Detail)



7. Test chart

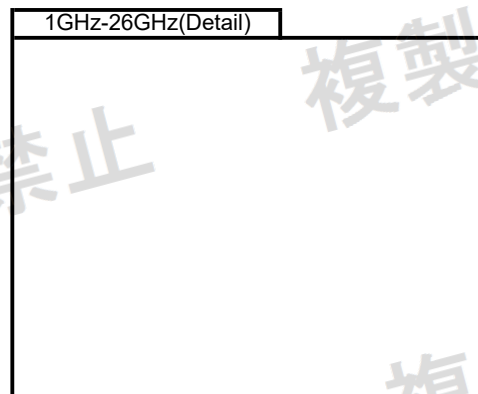
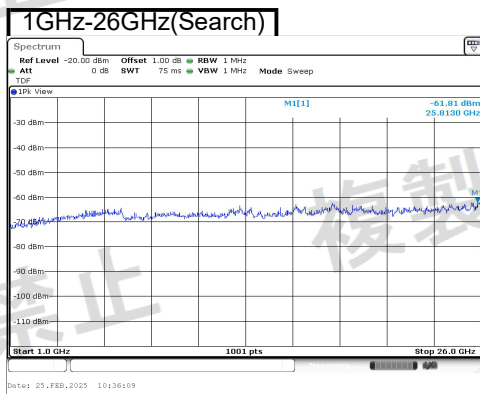
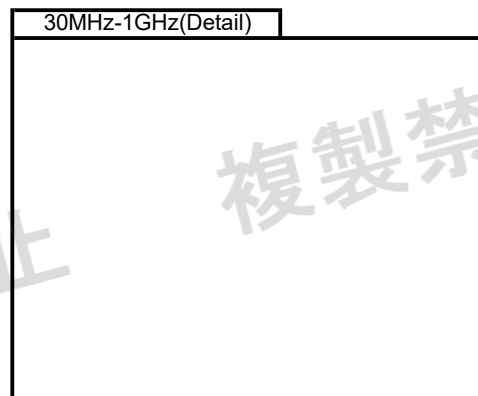
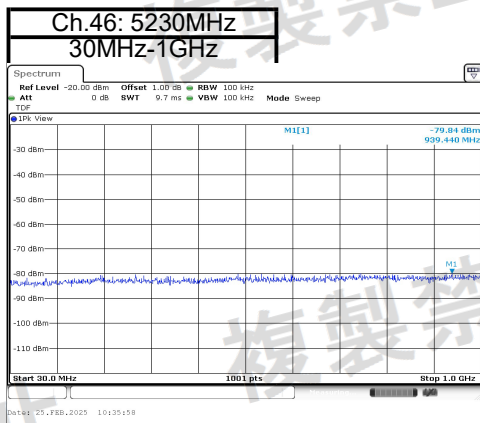
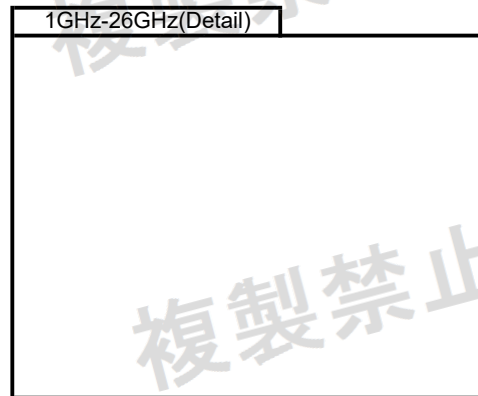
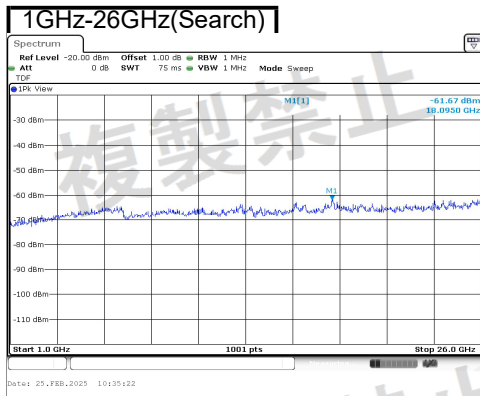
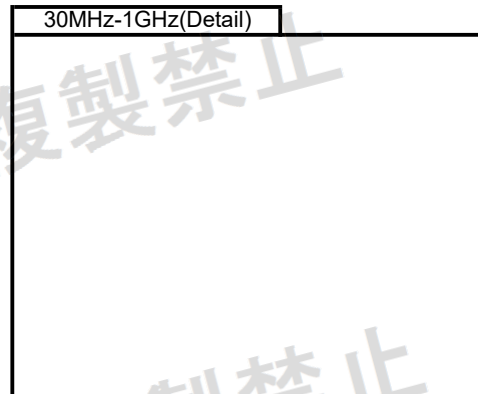
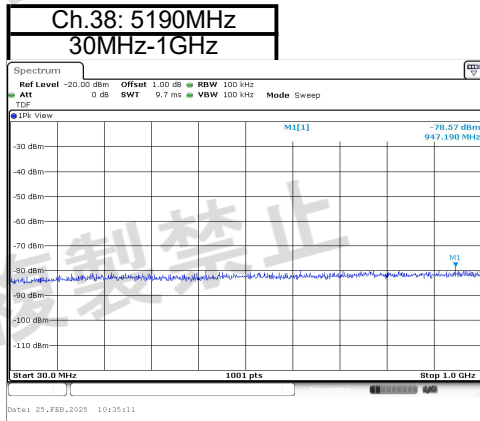
7.6 Out-Band Leakage Power (Rated voltage)





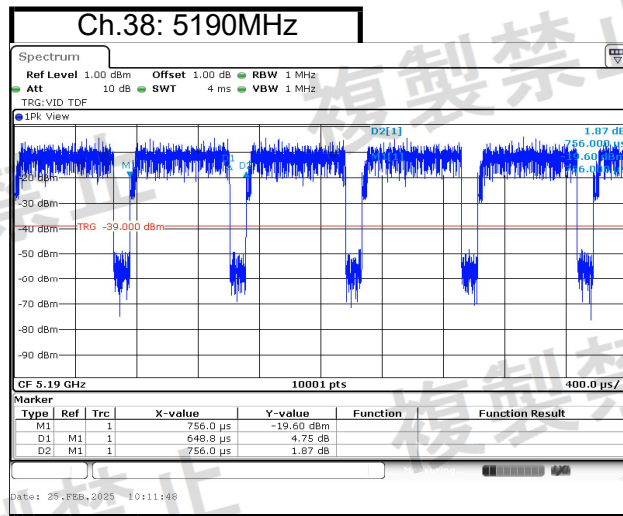
7. Test chart

7.7 Secondary emitted radio wave strength (Rated voltage)



7. Test chart

7.8 Burst Length of Transmitted Signals (Rated voltage)



3. Test results (Rated voltage)

S/N : TP-54

Environment of test room	Date of test	2025-02-24		2025-02-25	2025-03-24
	Temperature	24	°C	25	°C
	Humidity	51	%	52	%

Peak Antenna Gain	-2.52	dBi
Declaration Output Power	0.05	mW/MHz
	-13.01	dBm/MHz
E.I.R.P	0.03	mW/MHz
	-15.53	dBm/MHz
Input Power Voltage	0.00	VDC

Test category		IEEE802.11ac VHT80	
Tested Circuit Insertion Loss		0.00	dB
Transmission Time	ON TIME (1sec or less)	0.323	ms
	OFF TIME (0.1sec or more)	0.109	ms
	Ratio	0.748	%

Using TDF and offset function in Spectrum Analyzer.

Measurement of plots are included Loss value.

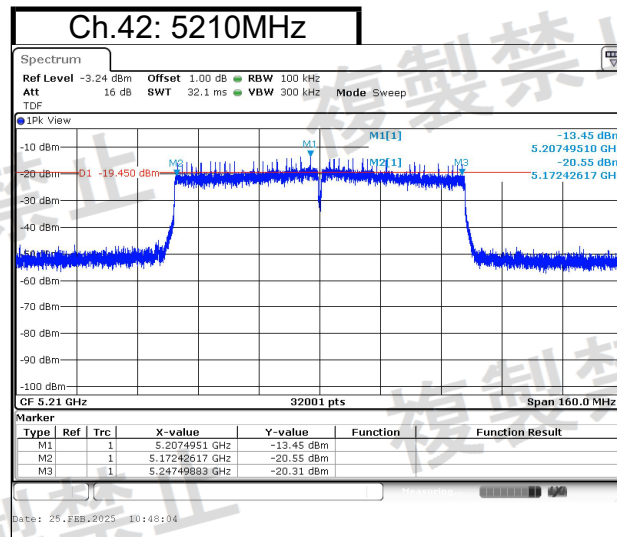
(Att : 10dB + Cable loss + EUT cable: 1dB offset)

Test category :	5GHz Band Low-Power Data Communication System (802.11ac VHT80 W52)
The reason why the tests are performed only at rated voltage:	The fluctuation of input voltage to the circuit of the radio part of the equipment to be tested is identified as being less than $\pm 1\%$ when input voltage from an external supply into the equipment fluctuates $\pm 10\%$.

Measurement Channel		Ch.	MHz		
Measurement Frequency		MHz	5210	Result	Limit
Frequency Measurements		MHz	5209.963	----	----
Frequency Tolerance		ppm	-7.20	PASS	$\pm 20 \times 10^{-6}$ (20ppm)
Occupied Bandwidth		MHz	75.76	PASS	80MHz or below
RF Output Power		mW/MHz	0.04	PASS	2.5mW/MHz or below
RF Output Power Tolerance		%	-16.41	PASS	+20% to -80%
Unwanted (Spurious) Emission Strength	30MHz to 5123.2MHz	uW/MHz	0.19	PASS	2.5uW/MHz or below
		MHz	5120.70	----	----
	5296.7MHz to 26GHz	uW/MHz	0.32	PASS	2.5uW/MHz or below
		MHz	18068.70	----	----
Adjacent Channel Leakage Power	cf	dB	2.60	----	----
	cf -80MHz	dB	-37.90	PASS	-25dBc or below
	cf +80MHz	dB	-40.77	PASS	-25dBc or below
Out-band of Leakage Power	5123.2 to 5150MHz	uW/MHz	0.41	PASS	15uW/MHz or below
		MHz	5141.58	----	----
	5250 to 5251MHz	uW/MHz	1.52	PASS	$10^{(10-40) \cdot \log(14)}$ mW/MHz or below
		MHz	5250.02	----	----
	Limit	uW/MHz	240.40	----	----
	5251 to 5290MHz	uW/MHz	0.37	PASS	$10^{(10-30) \cdot (41) + 10 \cdot \log(14)}$ mW/MHz or below
		MHz	5251.02	----	----
	Limit	uW/MHz	24.98	----	----
	5290 to 5296.7MHz	uW/MHz	0.40	PASS	$10^{(10-30) \cdot (40) + 10 \cdot \log(14)}$ mW/MHz or below
		MHz	5291.72	----	----
Limit	uW/MHz	3.52	----	----	
Secondary Emitted Radio Wave Strength	30MHz to 1000MHz	nW	0.01	PASS	4nW or below
		MHz	939.44	----	----
	1GHz to 26GHz	nW	0.69	PASS	20nW or below
		MHz	25888.00	----	----
Burst Length of Transmitted Signals		----	Good	PASS	8ms or below
Carrier Sensing Function		----	Good	PASS	100mV/m
Interference Prevention Function		----	Good	PASS	

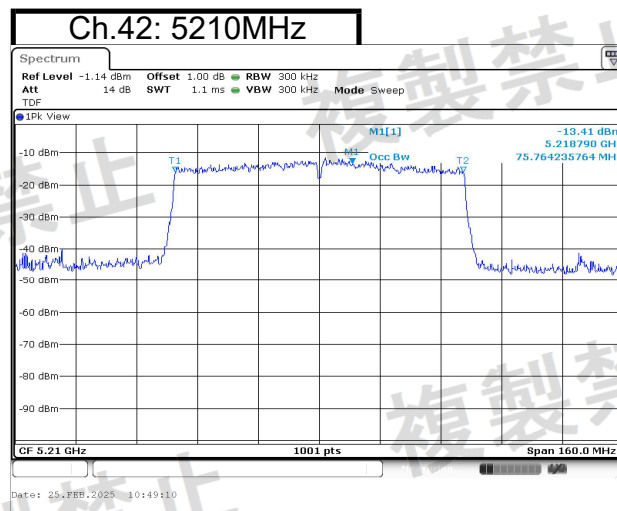
7. Test chart

7.1 Frequency tolerance (Rated voltage)



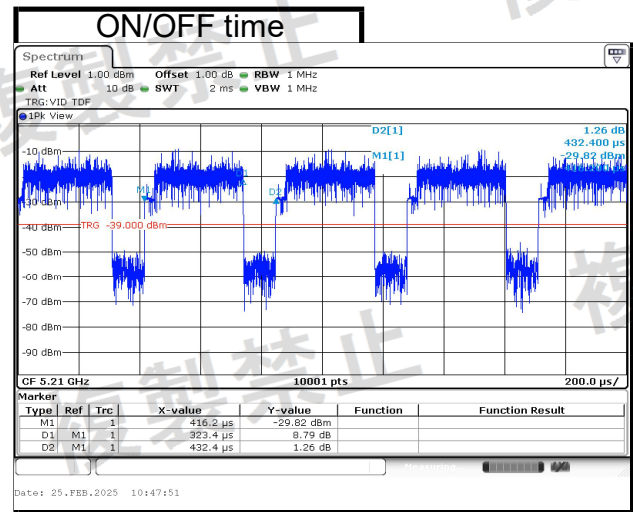
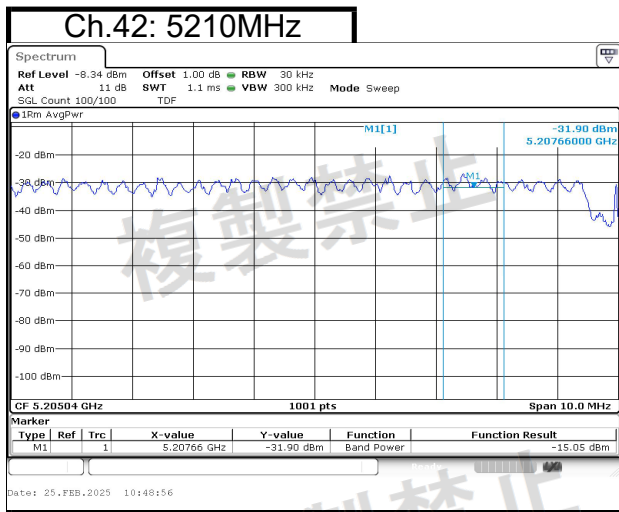
7. Test chart

7.2 Occupied bandwidth (Rated voltage)



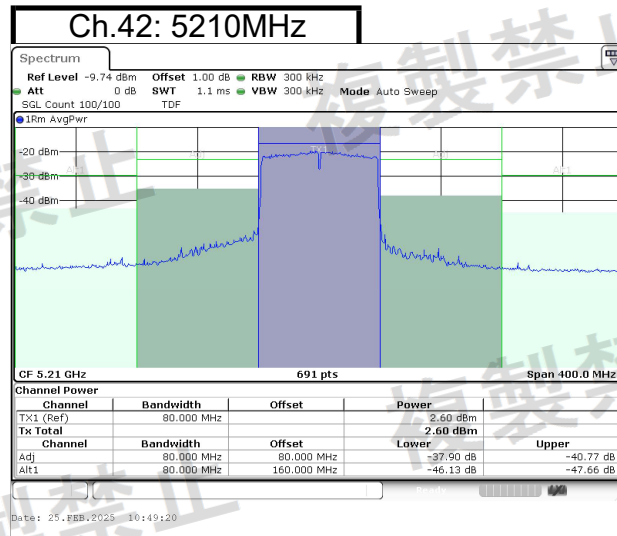
7. Test chart

7.3 RF output power tolerance (Rated voltage)



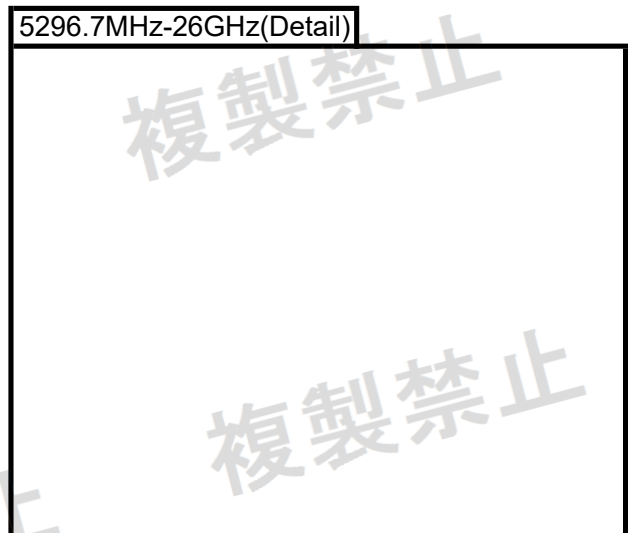
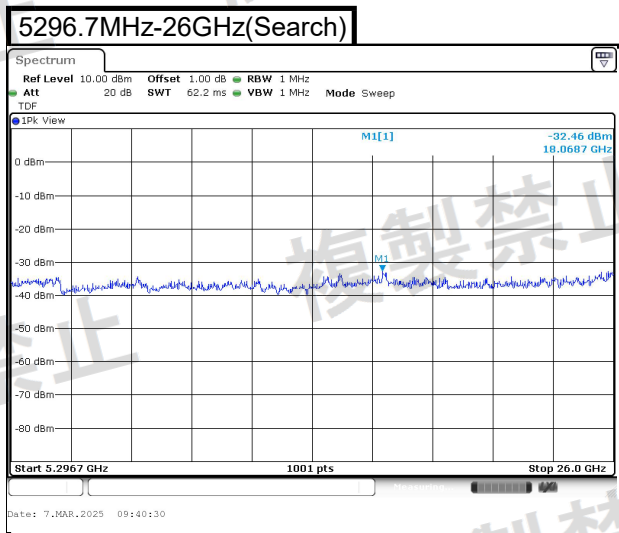
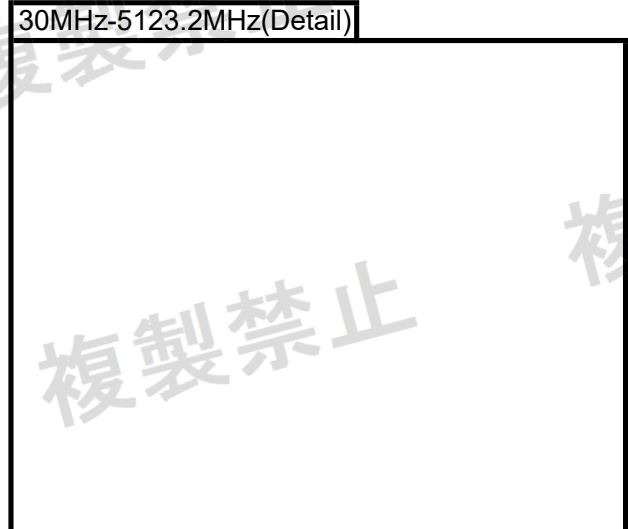
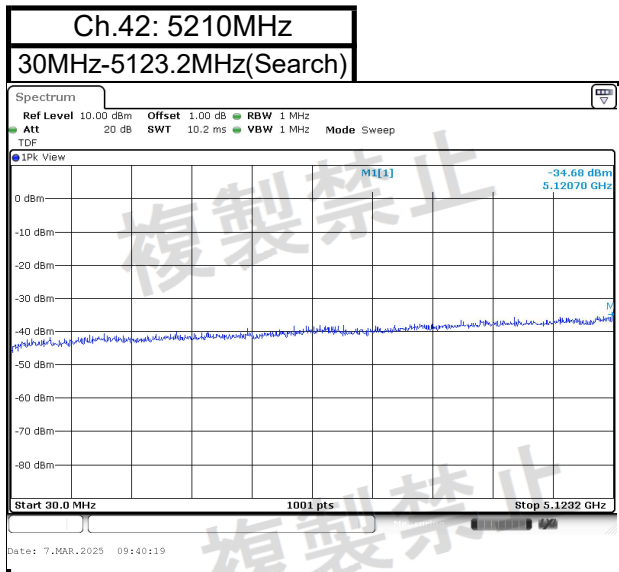
7. Test chart

7.4 Adjacent Channel Leakage Power (Rated voltage)



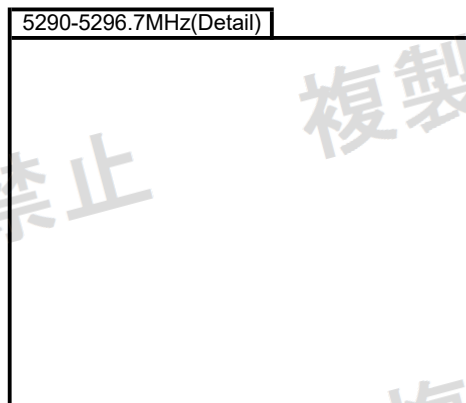
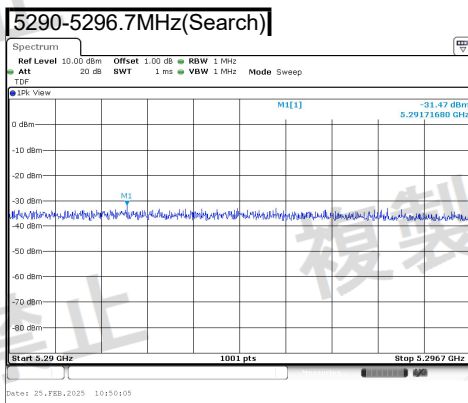
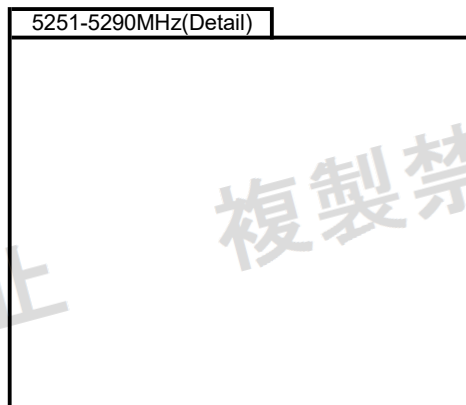
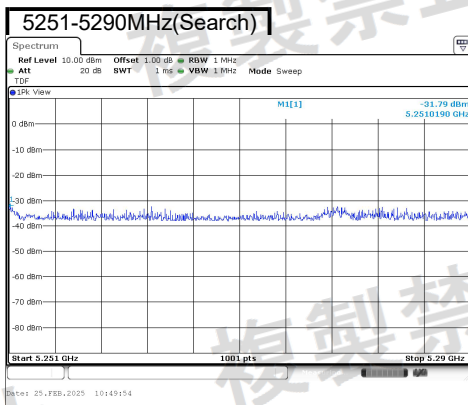
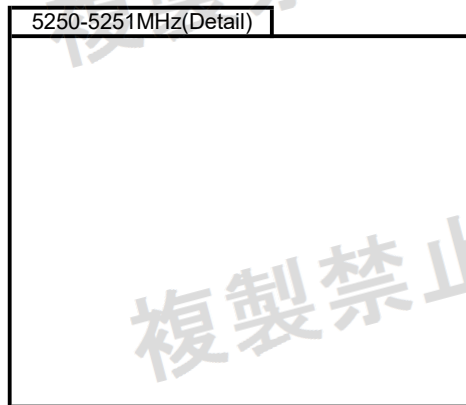
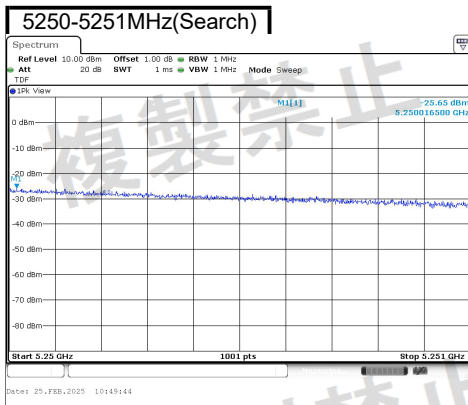
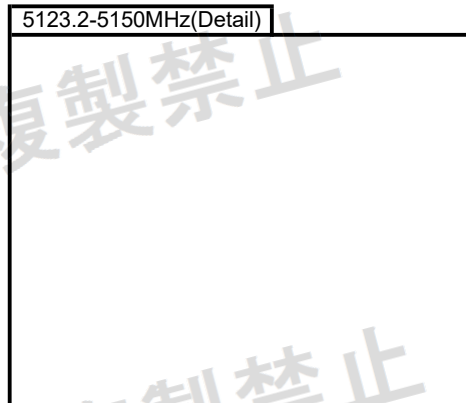
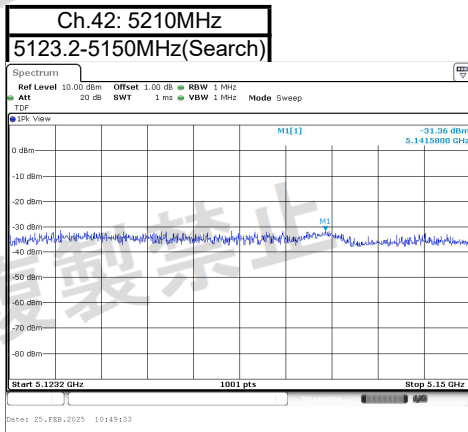
7. Test chart

7.5 Unwanted(Spurious) emission strength (Rated voltage)



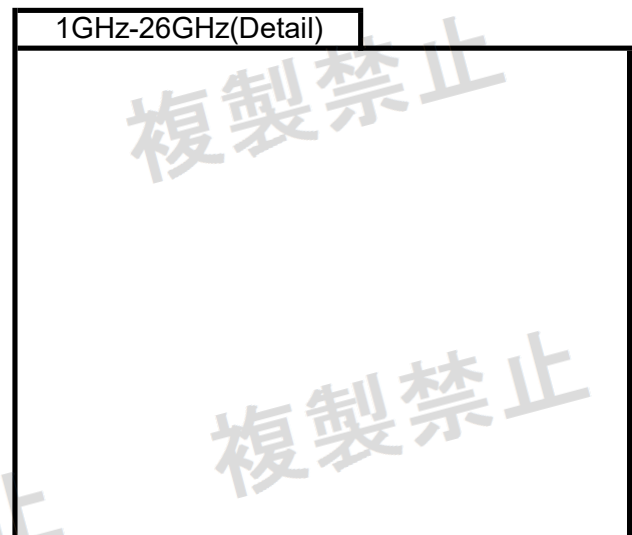
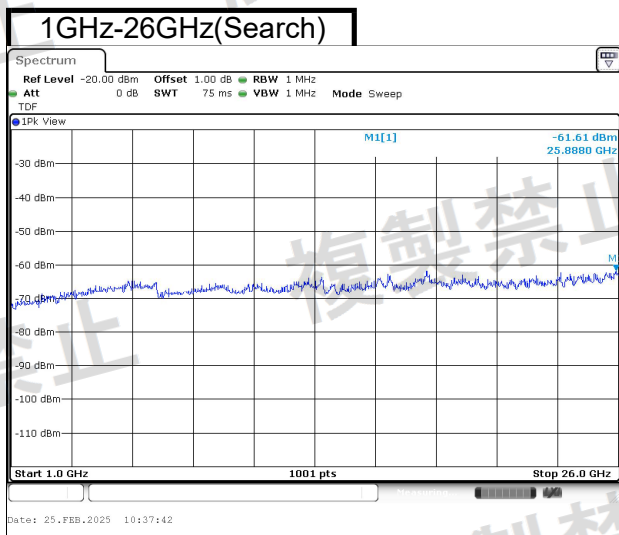
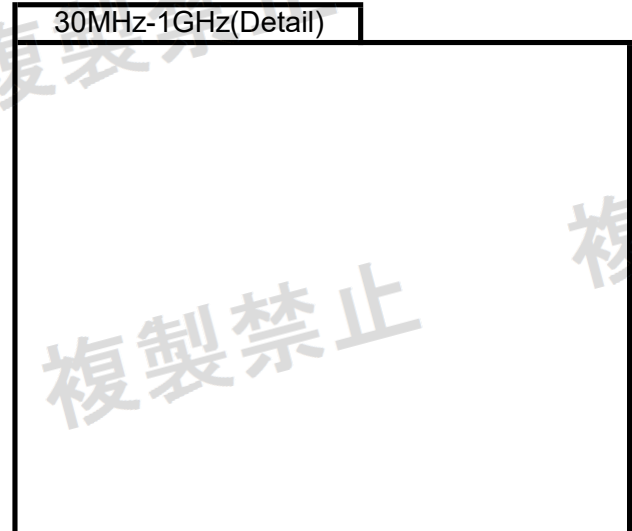
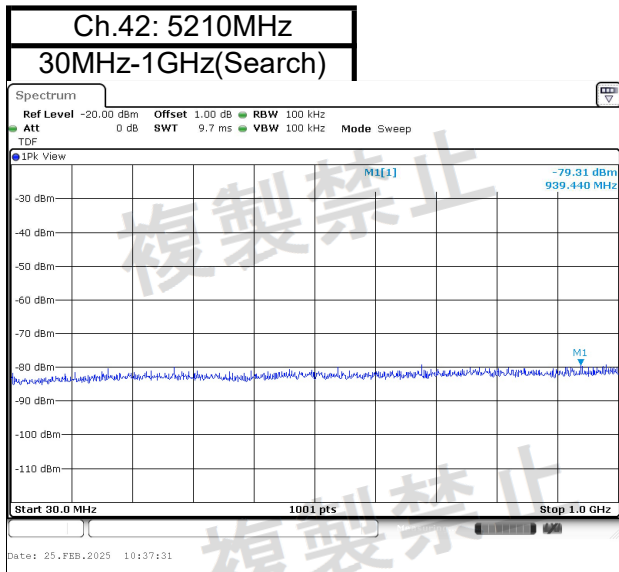
7. Test chart

7.6 Out-Band Leakage Power (Rated voltage)



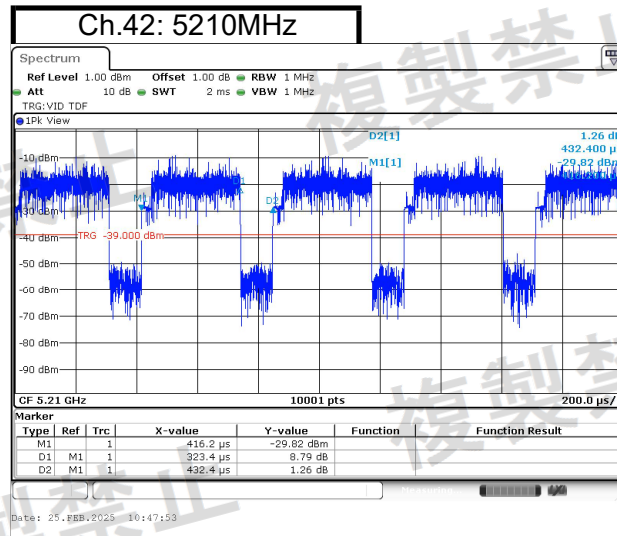
7. Test chart

7.7 Secondary emitted radio wave strength (Rated voltage)



7. Test chart

7.8 Burst Length of Transmitted Signals (Rated voltage)



8. Laboratory description

1. Location

Name: Eurofins KCTL Inc.

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea

Telephone Number: +82 70 5008 1021

Facsimile Number: +82 505 299 8311

2. Accreditation and Registration

1) FCC

Site Designation No.: KR0040

Site Registration No.: 687132

2) VCCI

Registration No.: R-20080, G-20078, C-20059, T-20056

3) Industry Canada

Registration No.: 8035A

Test Site No.: 8035A-2

4) KOLAS

Registration No.: KT231