

TEST REPORT

Report number:

DRTTEC2608-0038

Issue Date:

2026-08-12

Applicant

- Company Name : PARTRON ESL Co., Ltd.

- Address : 829-836, 42, Changeop-ro, Sujeong-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea**Equipment under test**

- Product Name : RF Remote Controller

- Model Name : RC200

Date of Test : 2026.04.09 ~ 2026.04.14**Laboratory**

- Company Name : Dt&C Co., Ltd.

- Address : 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea 449-935**Test Results** : PASS

The results in this reports are applicable only to the samples tested.

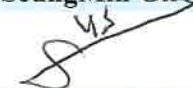
This report shall not be re-produced except in full without the written approval of
Dt&C Co., Ltd.

Tested Engineer;



SeungMin Gil

Approval Person;



HyunSu Son

1. Summary of Test

1. Purpose of test

Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment
2.4GHz Band wide band low power data communication System

2. Standards

Certification Ordinance Article 2 Clause 1 Item19

1) Test Methods

Ministry of Internal Affairs and Communications Notification Article 88 Appendix 43

2) Deviation from standards

None

3. List of applied test to the EUT

Article 88 Appendix 43	Classification of EUT	Condition	Result
1	Voltage fluctuation	Conducted	PASS
3	Frequency Tolerance	Conducted	PASS
4	Occupied Bandwidth	Conducted	PASS
5	Unwanted (Spurious) Emission Strength	Conducted	PASS
6	RF Output Power Tolerance	Conducted	PASS
7	Secondary Emitted Radio Wave Strength	Conducted	PASS
8	Carrier Sensing Function	Conducted	NA
9	Absolute Gain of Transmission Antenna	Conducted	NA
10	Angle Width of Principal Radiation from Transmission Antenna	Conducted	NA
11	Interference Prevention Function	Conducted	PASS
12	Hopping frequency dwell time	Conducted	NA

1) Test set up

Table-Top

2) Modification to the EUT by laboratory

None

2. Test Information

1. Applicant

PARTRON ESL Co., Ltd.

829-836, 42, Changeop-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Product Name

RF Remote Controller

3. Model Name

RC200

4. Serial number

Identical Prototype

5. Size

(W) 40 x (D) 9.8 x (H) 90 mm

6. Terminal limitation

-20°C to 55°C

7. RF Specification Frequency range

2405 - 2480 MHz

8. Number of RF Channels

16 Channels (2405 - 2480 MHz)

9. Modulation method

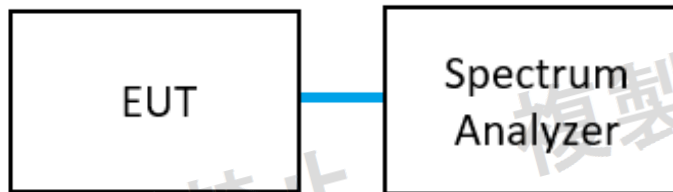
O-QPSK

10. Variation of the family model(s)

-

3. Configuration of equipment

1. Frequency tolerance, Spread bandwidth, Occupied Bandwidth, Unwanted(Spurious) emission strength, Secondary emitted radio wave strength, RF output power tolerance



4. List of Measuring Instruments

[illegible]

Note1: "X" は使用した測定機器です。
"X" used equipment.

Note2: 較正期限は、較正を行った日の翌月から起算して1年以内です。

The validity of measurement equipment is one year from the first day of the following month of the calibration date.

Note3: 校正方法
Cal.Method
イ)：国立研究開発法人情報通信研究機構（NICT）（以下「機構」という。）又は第百二条の十八第一項の指定校正機関（TELC インターテクスジャパン キーサイト）が行う校正

イ：国立研究開発法人情報通信研究機構（NICT）（以下「機構」という。）又は第二百二条の十八第一項の指定校正機関（TELEC、インターテックジャパン、キーサイト）が行う校正

a) : Calibration conducted by the National Institute of Information and Communications Technology~NICT~ or a designated calibration agency under Article 102-18 paragraph (1)~ Telecom Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc~.

□: 計量法（平成四年法律第五十一号）第百三十五条又は第百四十四条の規定に基づく校正（JCSS校正）

b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)~Japan Calibration Service System~

ハ)：外国において行う較正であつて、機構又は第百二条の十八第一項の指定較正機関（TELEC、インターテックジャパン、キーサイト）が行う較正に相当するもの

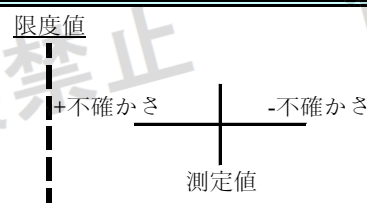
c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)~ Telecom Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc~.

ニ)：イからハまでのいずれかに掲げる較正等を受けたものを用いて行う較正等

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

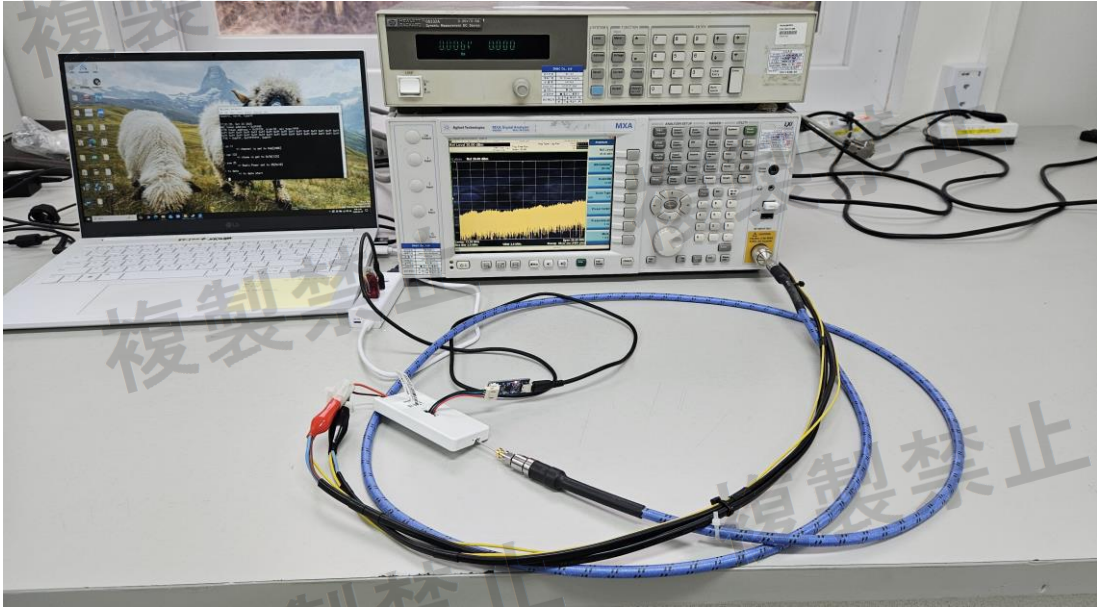
5. Uncertainty

Parameter	Uncertainty
Total RF power conducted	0.7 dB
Spurious emissions conducted	1.0 dB
Temperature	0.8℃
Humidity	3.0%

判定	測定データにおける不確かさの判断とその範囲	
適合	例 A 	測定結果と不確かさは与えられた 限度値内に入っています。 これを『適合』と呼びます。
	例 B 	完全には、限度値内でも限度値外 でもありません。 この場合の適合性については、確 実な結論を出すことは出来ません 。
不適合	例 C 	完全には、限度値内でも限度値外 でもありません。 この場合の適合性については、確 実な結論を出すことは出来ません 。
	例 D 	測定結果も不確かさも与えられた 限度値内に入っていません。 これは『不適合』と呼びます。

6. Configuration Photographs

Conducted Measurement Photo



7. Laboratory description

1. Location

- Name: Dt&C Co., Ltd.
- Address: 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935
- Phone: +81-031-321-2664
- Fax: +81-031-321-2855

2. Accreditation and Registration

1) VLAC

Accreditation No.: N/A

2) NVLAP

LAB CODE: N/A

3) BSMI

Laboratory Code: TL652

4) KOLAS

Registration number	Facility	Expiration date
KT393	Dt&C Co., Ltd.	2029-01-21

3. Test Site

1) Conducted test

Conducted Test-room

8. Test Results

Zigbee (2400 - 2483.5 MHz)_Normal Voltage

Environment of Test Room	Test Date	2026.04.09 ~ 2026.04.14	
	Temperature	21 ~ 22	°C
	Humidity	45 ~ 46	%

Peak Antenna Gain	3.216	dBi
Declaration Output Power	1.096	mW/MHz
Declaration Output Power	0.398	dBm/MHz
E.I.R.P.	3.614	dBm/MHz
Input Power Voltage	3.000	VDC

Tested Circuit Insertion Loss		0.000	dB
Transmission Time	ON TIME	0.600	ms
	OFF TIME	1.800	ms
	Ratio	25.000%	%
Packet Type (Mode)		Not Applicable	mode
Transmit Speed		Not Applicable	MHz

Note: The insertion loss was corrected during the test.

Test Category : 2.4GHz Band Wideband Low-Power Data Communication System_Zigbee

Measurement Frequency		MHz	2405	2440	2480	Result	Limit	Note
Channel Number		Ch.	0	7	15	---	---	
Reading Frequency		MHz	2405.033	2440.088	2480.089	---	---	
Frequency Tolerance		ppm	13.909	35.902	35.685	PASS	±50×10 ⁻⁶ (50ppm)	
Occupied Bandwidth		MHz	2.297	2.307	2.297	PASS	26MHz or below	
RF Output Power		mW/MHz	0.927	1.133	1.228	PASS	10mW/MHz	
RF Output Power Tolerance		%	-15.424	3.335	12.008	PASS	+20%	
Tx Spurious Emission Strength	30 to 2387MHz	uW/MHz	0.002	0.002	0.002	PASS	2.5uW/MHz or below	
		MHz	2261.610	1994.090	2047.120	----		
	2387 to 2400MHz	uW/MHz	0.122	0.002	0.002	PASS	25uW/MHz or below	
		MHz	2395.320	2398.752	2397.803	----		
	2483.5 to 2496.5MHz	uW/MHz	0.005	0.007	0.484	PASS	25uW/MHz or below	
		MHz	2487.842	2486.737	2483.500	----		
	2496.5 to 12500MHz	uW/MHz	0.345	0.445	0.581	PASS	2.5uW/MHz or below	
		MHz	12022.580	12197.640	12397.460	----		
Rx Spurious Emission Strength	10 to 1000MHz	nW	0.006	0.006	0.005	PASS	4nW or below	
		MHz	894.466	874.171	976.537	----		
	1000 to 5000MHz	nW	0.397	0.483	0.374	PASS	20nW or below	
		MHz	4813.200	4883.600	4963.600	----		
	5000 to 12500MHz	nW	0.136	0.137	0.182	PASS	20nW or below	
		MHz	12123.130	11790.130	11982.690	----		
Interference Prevention Function		----	Good	Good	Good	PASS		

8. Test Results

Zigbee (2400 - 2483.5 MHz)_Lowest Voltage

Environment of Test Room	Test Date	2026.04.09 ~ 2026.04.14	
	Temperature	21 ~ 22	°C
	Humidity	45 ~ 46	%

Peak Antenna Gain	3.216	dBi
Declaration Output Power	1.096	mW/MHz
Declaration Output Power	0.398	dBm/MHz
E.I.R.P.	3.614	dBm/MHz
Input Power Voltage	2.700	VDC

Tested Circuit Insertion Loss		0.000	dB
Transmission Time	ON TIME	0.600	ms
	OFF TIME	1.800	ms
	Ratio	25.000%	%
Packet Type (Mode)		Not Applicable	mode
Transmit Speed		Not Applicable	MHz

Note: The insertion loss was corrected during the test.

Test Category ;	2.4GHz Band Wideband Low-Power Data Communication System_Zigbee
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Measurement Frequency		MHz	2405	2440	2480	Result	Limit	Note
Channel Number		Ch.	0	7	15	---	---	
Reading Frequency		MHz	2405.087	2440.031	2480.080	---	---	
Frequency Tolerance		ppm	36.299	12.725	32.238	PASS	±50×10 ⁻⁶ (50ppm)	
Occupied Bandwidth		MHz	2.266	2.273	2.319	PASS	26MHz or below	
RF Output Power		mW/MHz	0.993	1.164	1.248	PASS	10mW/MHz	
RF Output Power Tolerance		%	-9.375	6.231	13.828	PASS	+20%	
Tx Spurious Emission Strength	30 to 2387MHz	uW/MHz	0.002	0.002	0.002	PASS	2.5uW/MHz or below	
		MHz	2352.820	2378.986	2285.413	----		
	2387 to 2400MHz	uW/MHz	0.126	0.003	0.002	PASS	25uW/MHz or below	
		MHz	2395.476	2391.849	2393.565	----		
	2483.5 to 2496.5MHz	uW/MHz	0.004	0.006	0.503	PASS	25uW/MHz or below	
		MHz	2488.037	2489.363	2483.500	----		
	2496.5 to 12500MHz	uW/MHz	0.328	0.428	0.575	PASS	2.5uW/MHz or below	
		MHz	12022.833	12197.644	12397.720	----		
Rx Spurious Emission Strength	10 to 1000MHz	nW	0.006	0.006	0.006	PASS	4nW or below	
		MHz	805.861	898.723	778.240	----		
	1000 to 5000MHz	nW	0.409	0.405	0.378	PASS	20nW or below	
		MHz	4813.600	4883.600	4963.600	----		
	5000 to 12500MHz	nW	0.145	0.143	0.179	PASS	20nW or below	
		MHz	12363.687	12404.000	12320.940	----		
Interference Prevention Function		----	Good	Good	Good	PASS		

8. Test Results

Zigbee (2400 - 2483.5 MHz)_Highest Voltage

Environment of Test Room	Test Date	2026.04.09 ~ 2026.04.14	
	Temperature	21 ~ 22	°C
	Humidity	45 ~ 46	%

Peak Antenna Gain	3.216	dBi
Declaration Output Power	1.096	mW/MHz
Declaration Output Power	0.398	dBm/MHz
E.I.R.P.	3.614	dBm/MHz
Input Power Voltage	3.300	VDC

Tested Circuit Insertion Loss		0.000	dB
Transmission Time	ON TIME	0.600	ms
	OFF TIME	1.800	ms
	Ratio	25.000%	%
Packet Type (Mode)		Not Applicable	mode
Transmit Speed		Not Applicable	MHz

Note: The insertion loss was corrected during the test.

Test Category ;	2.4GHz Band Wideband Low-Power Data Communication System_Zigbee
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Measurement Frequency		MHz	2405	2440	2480	Result	Limit	Note
Channel Number		Ch.	0	7	15	---	---	
Reading Frequency		MHz	2405.089	2440.096	2479.982	---	---	
Frequency Tolerance		ppm	36.798	39.283	-7.319	PASS	±50×10 ⁻⁶ (50ppm)	
Occupied Bandwidth		MHz	2.298	2.301	2.290	PASS	26MHz or below	
RF Output Power		mW/MHz	0.938	1.127	1.175	PASS	10mW/MHz	
RF Output Power Tolerance		%	-14.444	2.861	7.213	PASS	+20%	
Tx Spurious Emission Strength	30 to 2387MHz	uW/MHz	0.002	0.002	0.002	PASS	2.5uW/MHz or below	
		MHz	2111.231	2191.369	2370.972	----		
	2387 to 2400MHz	uW/MHz	0.129	0.003	0.002	PASS	25uW/MHz or below	
		MHz	2395.307	2391.940	2397.751	----		
	2483.5 to 2496.5MHz	uW/MHz	0.004	0.007	0.407	PASS	25uW/MHz or below	
		MHz	2495.005	2490.208	2483.565	----		
	2496.5 to 12500MHz	uW/MHz	0.337	0.469	0.633	PASS	2.5uW/MHz or below	
		MHz	12022.610	12202.896	12402.966	----		
Rx Spurious Emission Strength	10 to 1000MHz	nW	0.005	0.006	0.005	PASS	4nW or below	
		MHz	908.128	833.779	749.629	----		
	1000 to 5000MHz	nW	0.437	0.454	0.412	PASS	20nW or below	
		MHz	4813.600	4883.600	4963.600	----		
	5000 to 12500MHz	nW	0.138	0.160	0.179	PASS	20nW or below	
		MHz	12134.937	11938.250	11938.062	----		
Interference Prevention Function		----	Good	Good	Good	PASS		

For Zigbee Plot Report (2400 - 2483.5 MHz) [TELEC Zigbee Result_RC200]

9. Trace Data

9.1 Frequency Tolerance

Zigbee

Ch.0: 2405 MHz



Ch.7: 2440 MHz



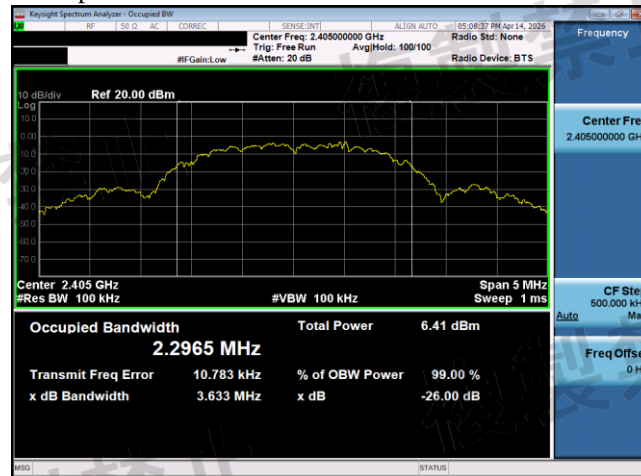
Ch.15: 2480 MHz



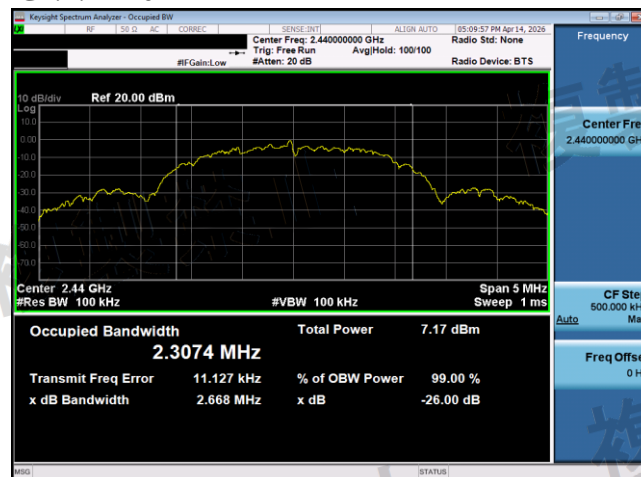
9.2 Occupied and Spread Bandwidth

Ch.0: 2405 MHz

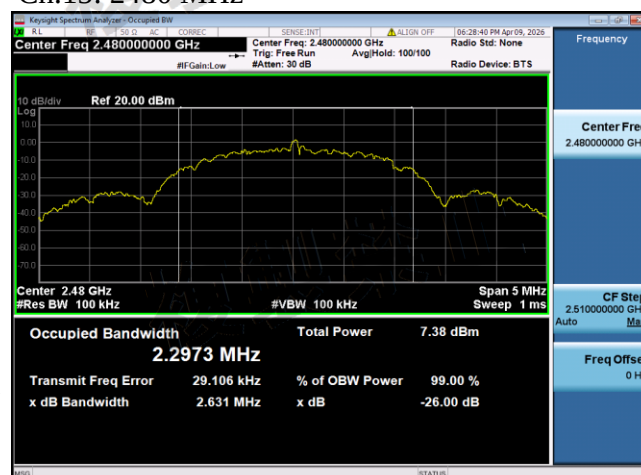
Occupied Bandwidth



Ch.7: 2440 MHz



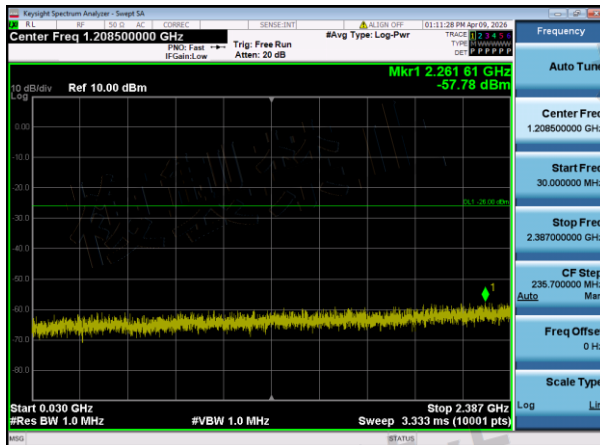
Ch.15: 2480 MHz



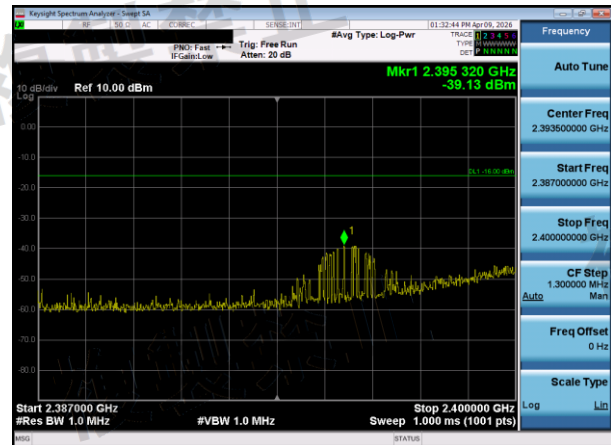
9.3 Tx Spurious Emission Strength

Ch.0: 2405 MHz

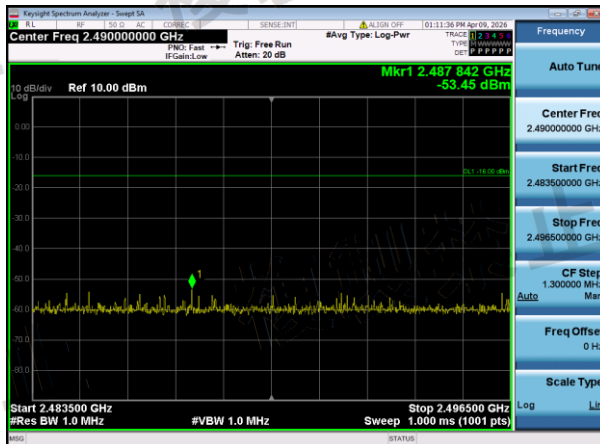
30 to 2387MHz



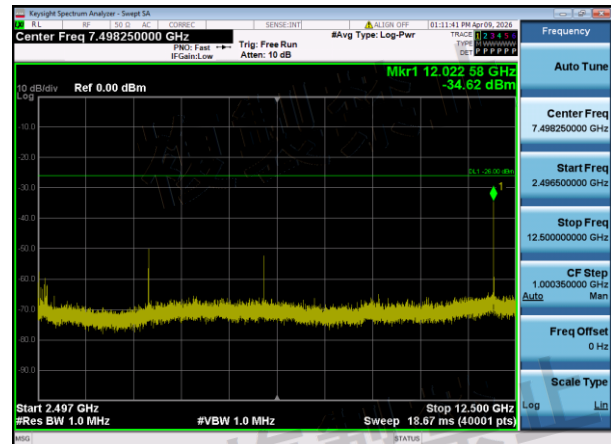
2387 to 2400MHz



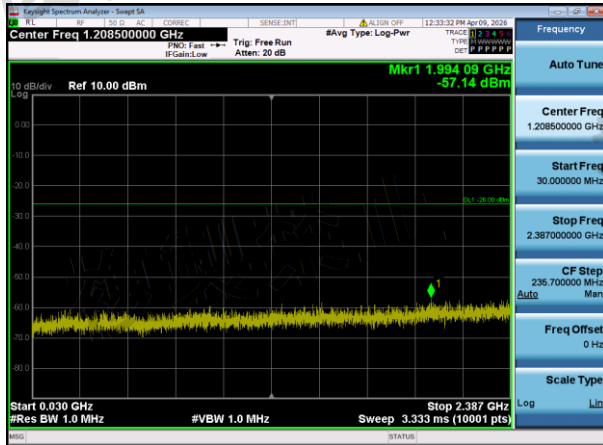
2483.5 to 2496.5MHz



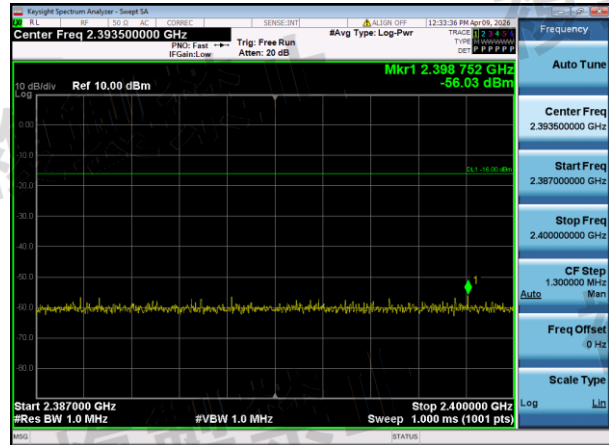
2496.5 to 12500MHz



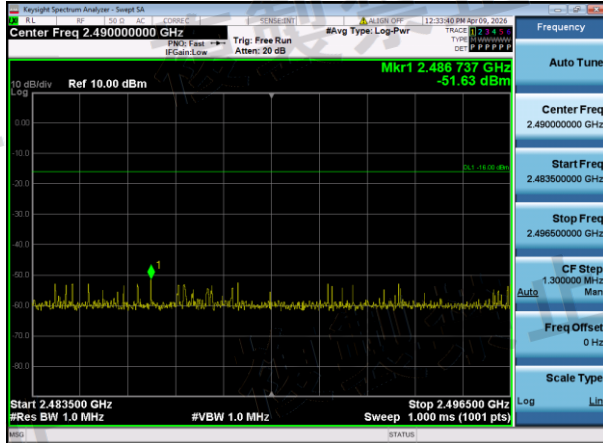
Ch.7: 2440 MHz 30 to 2387MHz



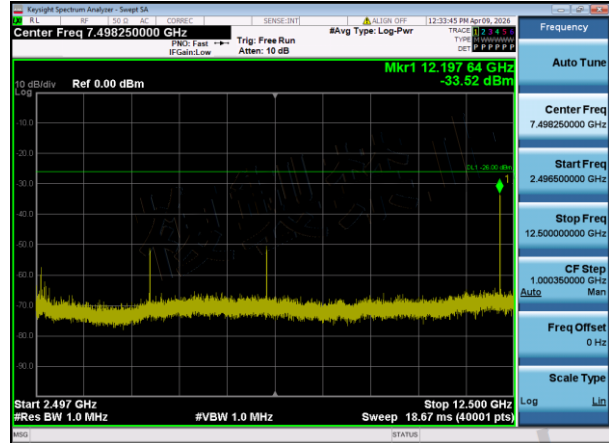
2387 to 2400MHz



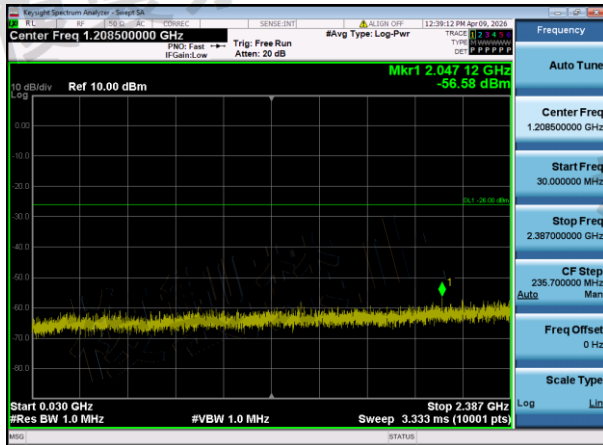
2483.5 to 2496.5MHz



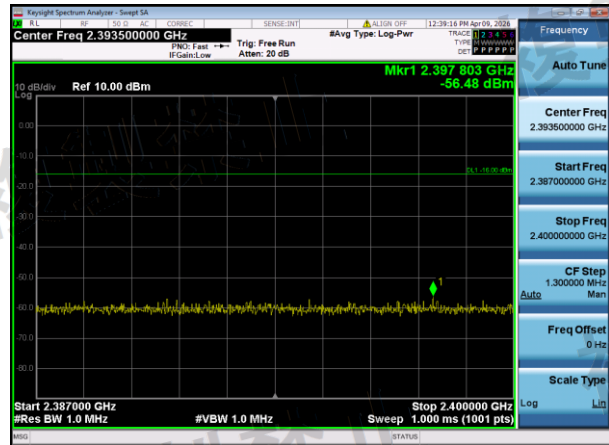
2496.5 to 12500MHz



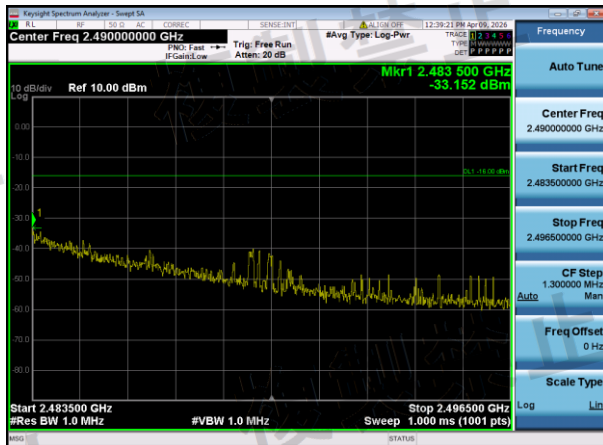
Ch.15: 2480 MHz 30 to 2387MHz



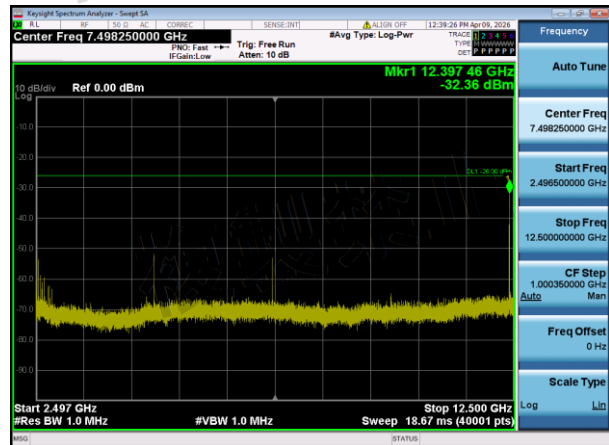
2387 to 2400MHz



2483.5 to 2496.5MHz

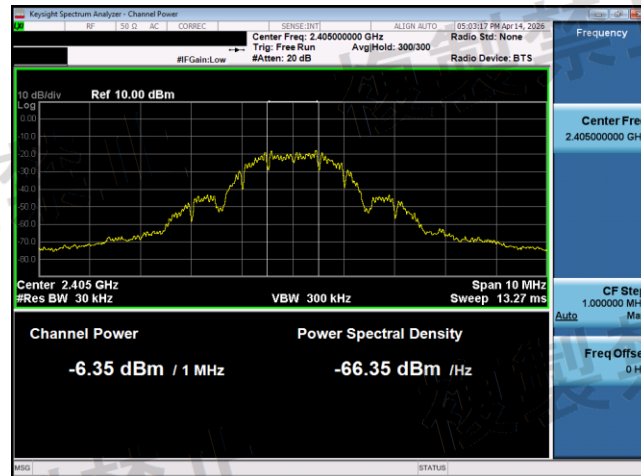


2496.5 to 12500MHz

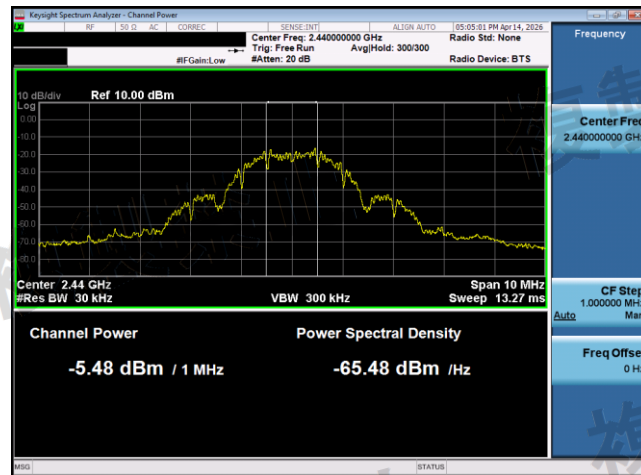


9.4 RF Output Power

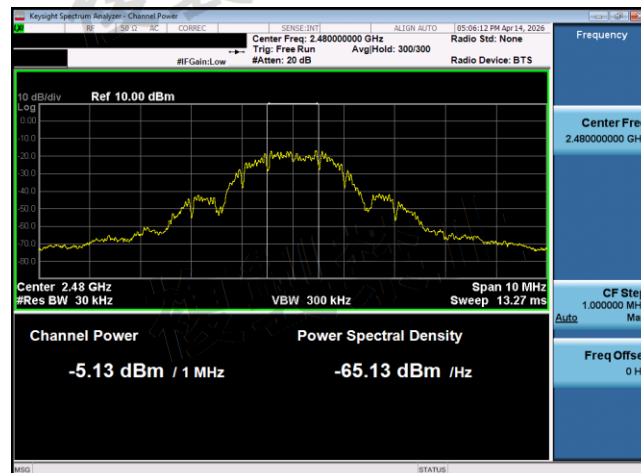
Ch.0: 2405 MHz



Ch.7: 2440 MHz



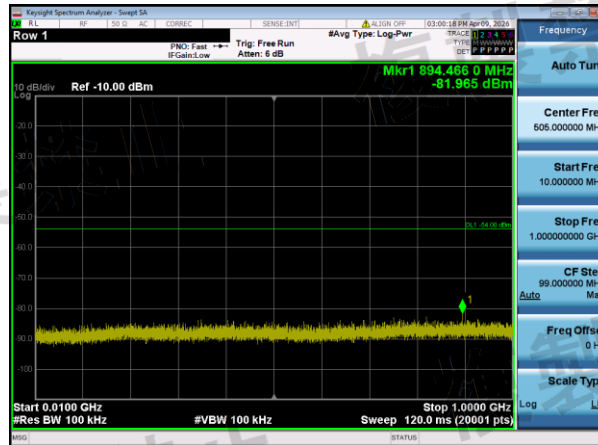
Ch.15: 2480 MHz



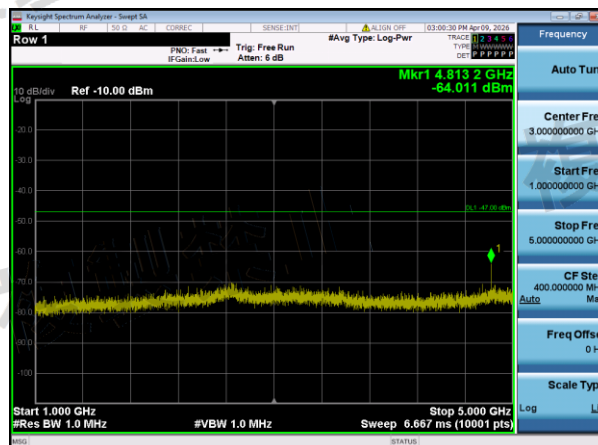
9.5 Rx Spurious Emission Strength

Ch.0: 2405 MHz

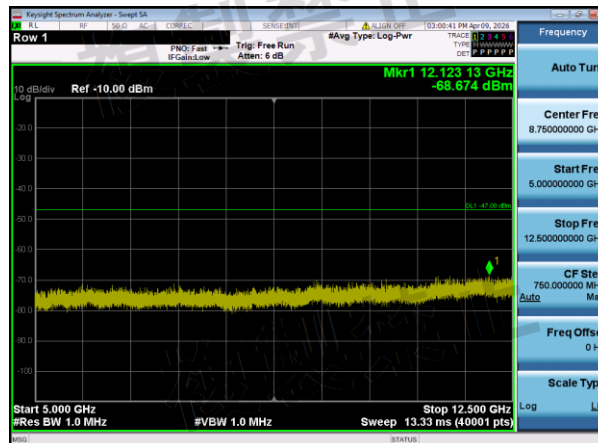
10 to 1000MHz



1000 to 5000MHz

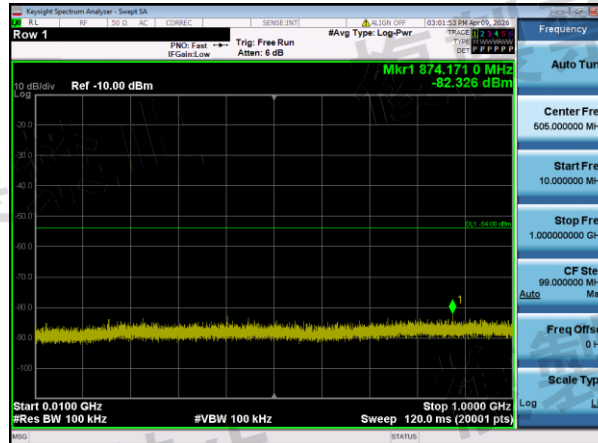


5000 to 12500MHz

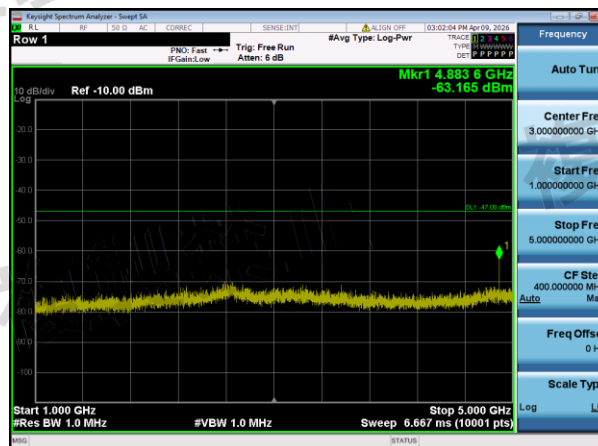


Ch.7: 2440 MHz

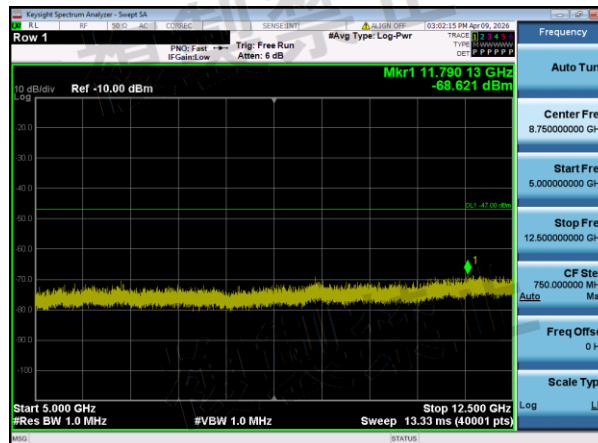
10 to 1000MHz



1000 to 5000MHz

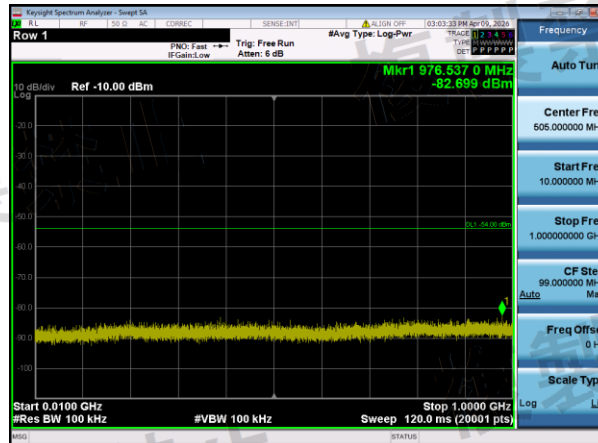


5000 to 12500MHz

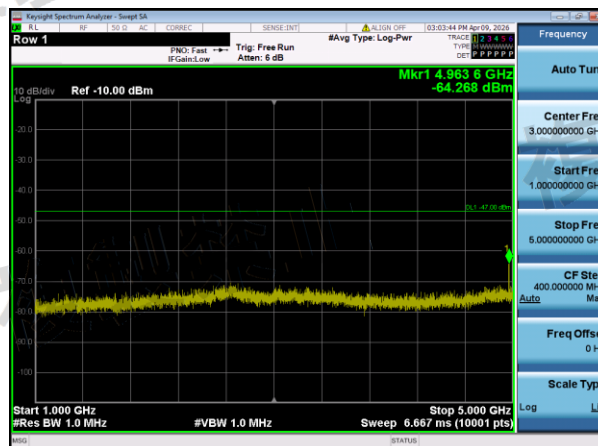


Ch.15: 2480 MHz

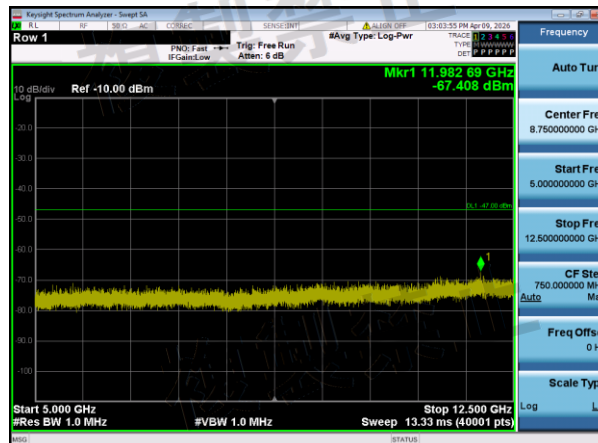
10 to 1000MHz



1000 to 5000MHz



5000 to 12500MHz



9.6 Dwell Cycle

ON/OFF

Ch.7: 2440 MHz

