

TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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Tel: +82-1551-9871
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REPORT No.:
CTK-2026-00134-1
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1. Applicant

- Name : SOLUM CO.,LTD.
- Address : 7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2026-04-01

2. Manufacturer

- Name : SOLUM CO.,LTD.

3. Use of Report : For Japan MIC Certification

4. Test sample / Model : Newton Eye / EC120THWXC/WWW

5. Date(s) of test : 2024-12-18

6. Test Standard (Method) used : ARIB STD-T66, Article 2, Clause 1, Item 19 No. 88 appended table 43

7. Testing Environment : refer to 8 page

8. Test Results : Compliance

9. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing (Address : 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Approval	Tested by:	Technical Manager:
	Seong-uk Park (Signature)	Bong-seok Kim (Signature)

2026-08-25

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REPORT REVISION HISTORY

Date	Revision	Page No
2026-01-13	Issued (CTK-2026-00133)	all
2026-08-25	Issued (CTK-2026-00133-1) Add Variant model(EC110THW12/WWW)	all

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1. General Product Description

1.1 Applicant Information

Company	SOLUM CO.,LTD.
Contact Point	7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Contact Person	Name : Lee Taeha E-mail : taeha.lee@solu-m.com Tel : +81-31-8006-7705

1.2 Manufacturer Information

Manufacturer	SOLUM CO.,LTD.
Address	7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Factory #1	SOLUM VINA CO., LTD
Factory #1 Address	Plot B3, Ba Thien II Industrial Park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, VIETNAM

1.3 Product Information

Product Description	Newton Eye
Model name	EC120THWXC/WWW
Variant Model name	EC110THW12/WWW The variant model differs from the original model only in the camera module, resulting in changes to the camera module connector and LED positions.)
Antenna type	Chip Antenna
Antenna gain	2.27 dBi
Operating Frequency	2 412 MHz - 2 472 MHz
RF Output Power	802.11b : 8.920 mW (E.I.R.P : 11.47 dBm) 802.11g : 1.870 mW (E.I.R.P : 4.22 dBm) 802.11n HT20 : 1.449 mW (E.I.R.P : 2.96 dBm)
Number of channels	13
Channel Spacing	5 MHz
Type of Modulation	802.11b : DSSS 802.11g/n : OFDM
Power Source	DC 5.0 V
Test Software	Realtek_AmebaD_mptool_4V0

1.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	HP ProBook 455 G7	5CD0234DX4
AC/DC Adapter	HP	TPN-CA16	L25298-002

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1.5 Interference prevention function

Interference prevention function	Description	Check
Identification code transmission/reception	Radio equipment used mainly on the same premises and automatically transmits or receives identification code	☒ Apply ☐ Does not apply

1.6 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
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2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



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2.3 Measurement equipment list

No	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal. Authority	Cal. Method	Cal Date	Due Date
1	Spectrum Analyzer	Agilent	N9020A	MY50510324	SICT Co., Ltd.	(c)	2024-11-26	2025-11-26
2	DC Power Supply	Agilent	E3632A	MY40009327	SICT Co., Ltd.	(c)	2024-03-20	2025-03-20
3	Signal Generator	R&S	SMB100A	175528	SICT Co., Ltd.	(c)	2024-03-21	2025-03-21
4	Temp&Humi Chamber	ESPEC CORP.	SH-242	93012243	SICT Co., Ltd.	(c)	2024-05-03	2025-05-03

Note : Cal. Method

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

2.4 Measurement Uncertainty

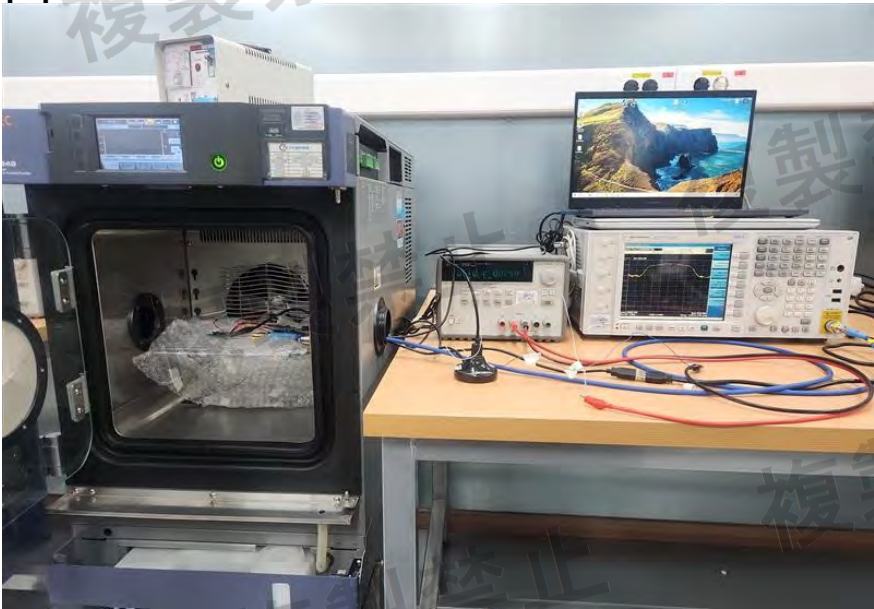
The value of the measurement uncertainty for the measurement of each parameter.
 Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.5 dB (C.L.: Approx. 95 %, $k = 2$)
Spurious emissions(Conducted)	1.5 dB (C.L.: Approx. 95 %, $k = 2$)
Temperature	1.0 °C (C.L.: Approx. 95 %, $k = 2$)
Humidity	3.0 % (C.L.: Approx. 95 %, $k = 2$)
Supply voltages	1.7 mV (C.L.: Approx. 95 %, $k = 2$)

2.5 Testing Environment

Test Item	Test Date	Temperature (°C)	Relative Humidity (%)
Frequency Tolerance	2024-12-18	24 ± 1	56 ± 3
Occupied Bandwidth & Spread Bandwidth			
RF Output Power & Tolerance			
Unwanted(Spurious) Emission Strength			
Secondary Emitted Radio Wave Strength			

2.6 Test Setup photo



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3. Test Results

3.1 802.11b

Peak Antenna Gain	2.27	dBi
Declaration RF Output Power	7.50	mW/MHz
	8.75	dBm/MHz
E.I.R.P.	11.02	dBm/MHz

Transmission Time	ON TIME	12.42	ms
	OFF TIME	0.90	ms
	Ratio	0.93	-
Packet Type (Mode)		Not Applicable	mode
Data Rate		1	Mbps

Channel Number		Ch.	1	7	13	Result	Limit
Measurement Frequency		MHz	2 412	2 442	2 472		
Frequency Measurements		MHz	2 411.986 765	2 441.984 783	2 471.983 912	PASS	
Frequency Tolerance		ppm	-5.487	-6.231	-6.508	PASS	$\pm 50 \times 10^{-6}$ (50ppm)
Occupied Bandwidth		MHz	14.218	14.162	14.108	PASS	26 MHz or below
Spread Bandwidth		MHz	9.161	9.201	9.132	PASS	500 kHz or more
RF Output Power		mW/MHz	8.920 365	6.988 478	6.956 369	PASS	10 mW/MHz or below
RF Output Power Tolerance		%	18.938 201	-6.820 288	-7.248 410	PASS	+20 to -80%
Unwanted (Spurious) Emissions	30 to 2 387 MHz	uW/MHz	0.317 687	0.025 823	0.024 660	PASS	2.5 uW/MHz or below
		MHz	2 387.00	2 092.37	2 290.36	-	
	2 387 to 2 400 MHz	uW/MHz	4.120975	0.020 559	0.016 596	PASS	25 uW/MHz or below
		MHz	2 397.06	2 397.52	2 391.24	-	
	2 483.5 to 2 496.5 MHz	uW/MHz	0.021 577	0.030 690	3.572 728	PASS	25 uW/MHz or below
		MHz	2 484.93	2 483.75	2 486.74	-	
	2 496.5 to 12 500 MHz	uW/MHz	0.037 497	0.027 290	0.364 754	PASS	2.5 uW/MHz or below
		MHz	7 298.18	5 767.64	2 496.50	-	-
Secondary emitted radio wave strength	30 to 1 000 MHz	nW	0.013 397	0.013 092	0.014 322	PASS	4 nW or below
		MHz	885.54	502.39	731.31	-	-
	1000 to 10 000 MHz	nW	0.263 027	0.245 471	0.271 019	PASS	20 nW or below
		MHz	5 338.00	5 716.00	6 238.00	-	-
	10 000 to 12 500 MHz	nW	0.180 717	0.250 035	0.242 103	PASS	20 nW or below
		MHz	12 492.50	12 402.50	11 815.00	-	-

Note : Output Power = measured value (mW) / Duty cycle



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3.2 802.11g

Peak Antenna Gain	2.27	dBi
Declaration RF Output Power	2.00	mW/MHz
	3.01	dBm/MHz
E.I.R.P.	5.28	dBm/MHz

Transmission Time	ON TIME	4.13	ms
	OFF TIME	0.80	ms
	Ratio	0.84	-
Packet Type (Mode)		Not Applicable	mode
Data Rate		6	Mbps

Channel Number		Ch.	1	7	13	Result	Limit
Measurement Frequency		MHz	2 412	2 442	2 472		
Frequency Measurements		MHz	2 411.983 715	2 441.983 237	2 471.982 891	PASS	
Frequency Tolerance		ppm	-6.752	-6.864	-6.921	PASS	$\pm 50 \times 10^{-6}$ (50ppm)
Occupied Bandwidth		MHz	16.336	16.389	16.385	PASS	26 MHz or below
Spread Bandwidth		MHz	13.225	13.346	13.320	PASS	500 kHz or more
RF Output Power		mW/MHz	1.870 238	1.617 696	1.690 040	PASS	10 mW/MHz or below
RF Output Power Tolerance		%	-6.488 102	-19.115 208	-15.498 023	PASS	+20 to -80%
Unwanted (Spurious) Emissions	30 to 2 387 MHz	uW/MHz	0.091 622	0.022 080	0.024 946	PASS	2.5 uW/MHz or below
		MHz	2 387.00	2 387.00	2 269.12	-	
	2 387 to 2 400 MHz	uW/MHz	5.584 702	0.040 179	0.016 558	PASS	25 uW/MHz or below
		MHz	2 399.97	2 398.04	2 391.33	-	
	2 483.5 to 2 496.5 MHz	uW/MHz	0.027 102	0.024 044	12.189 896	PASS	25 uW/MHz or below
		MHz	2 494.26	2 485.03	2 483.51	-	
	2 496.5 to 12 500 MHz	uW/MHz	0.028 054	0.026 607	0.598 412	PASS	2.5 uW/MHz or below
		MHz	12 419.97	12 490.00	2 496.50	-	
Secondary emitted radio wave strength	30 to 1 000 MHz	nW	0.015 849	0.013 552	0.012 388	PASS	4 nW or below
		MHz	787.57	960.23	712.88	-	
	1000 to 10 000 MHz	nW	0.248 886	0.264 241	0.297 167	PASS	20 nW or below
		MHz	5 491.00	6 742.00	6 256.00	-	
	10 000 to 12 500 MHz	nW	0.246 037	0.269 774	0.267 301	PASS	20 nW or below
		MHz	12 450.00	12 432.50	12 492.50	-	

Note : Output Power = measured value (mW) / Duty cycle



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3.3 802.11n_HT20

Peak Antenna Gain	2.27	dBi
Declaration RF Output Power	1.50	mW/MHz
	1.76	dBm/MHz
E.I.R.P.	4.03	dBm/MHz

Transmission Time	ON TIME	3.83	ms
	OFF TIME	0.90	ms
	Ratio	0.81	-
Packet Type (Mode)		Not Applicable	mode
Data Rate		MCS 0	

Channel Number		Ch.	1	7	13	Result	Limit
Measurement Frequency		MHz	2 412	2 442	2 472		
Frequency Measurements		MHz	2 411.983 255	2 441.982 868	2 471.982 633	PASS	
Frequency Tolerance		ppm	-6.942	-7.016	-7.025	PASS	$\pm 50 \times 10^{-6}$ (50ppm)
Occupied Bandwidth		MHz	17.443	17.500	17.471	PASS	26 MHz or below
Spread Bandwidth		MHz	14.066	14.179	14.097	PASS	500 kHz or more
RF Output Power		mW/MHz	1.448 612	1.247 246	1.425 450	PASS	10 mW/MHz or below
RF Output Power Tolerance		%	-3.425 859	-16.850 268	-4.969 973	PASS	+20 to -80%
Unwanted (Spurious) Emissions	30 to 2 387 MHz	uW/MHz	0.042 364	0.022 336	0.031 696	PASS	2.5 uW/MHz or below
		MHz	2 387.00	2 321.00	1 955.67	-	
	2 387 to 2 400 MHz	uW/MHz	11.324 004	0.020 559	0.022 182	PASS	25 uW/MHz or below
		MHz	2 399.97	2 399.86	2 399.22	-	
	2 483.5 to 2 496.5 MHz	uW/MHz	0.020 512	0.025 763	17.947 336	PASS	25 uW/MHz or below
		MHz	2 492.81	2 485.36	2 483.51	-	
	2 496.5 to 12 500 MHz	uW/MHz	0.026 853	0.028 054	0.217 771	PASS	2.5 uW/MHz or below
		MHz	6 247.81	11 919.80	2 496.50	-	
Secondary emitted radio wave strength	30 to 1 000 MHz	nW	0.014 894	0.012 560	0.012 823	PASS	4 nW or below
		MHz	869.05	747.80	356.89	-	
	1000 to 10 000 MHz	nW	0.260 016	0.213 796	0.253 513	PASS	20 nW or below
		MHz	6 076.00	6 292.00	5 824.00	-	
	10 000 to 12 500 MHz	nW	0.218 776	0.216 272	0.238 232	PASS	20 nW or below
		MHz	11 982.50	12 360.00	12 497.50	-	

Note : Output Power = measured value (mW) / Duty cycle



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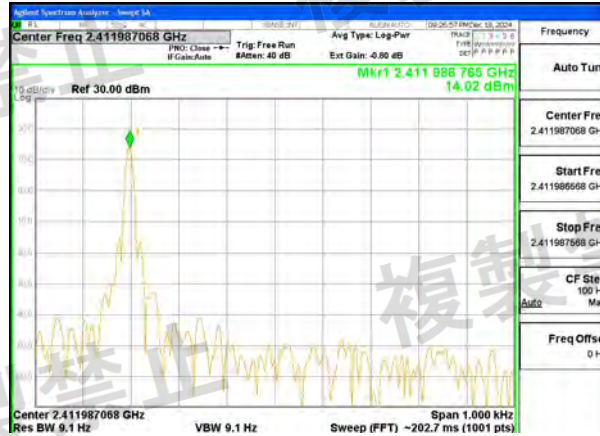
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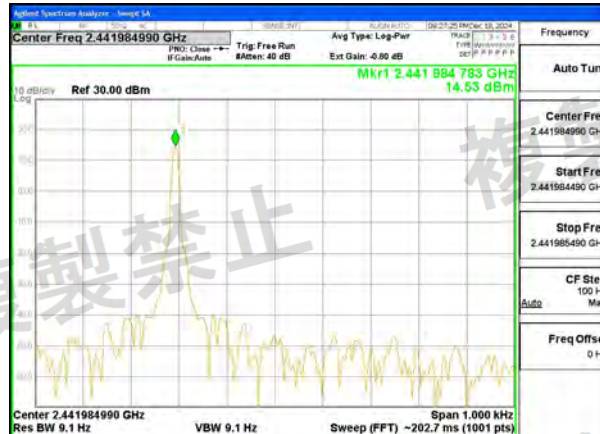
APPENDIX A – 802.11b

Frequency tolerance

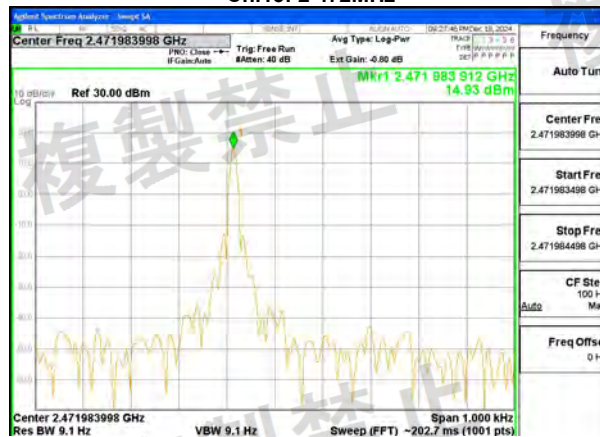
Ch.1: 2 412MHz



Ch.7: 2 442MHz



Ch.13: 2 472MHz





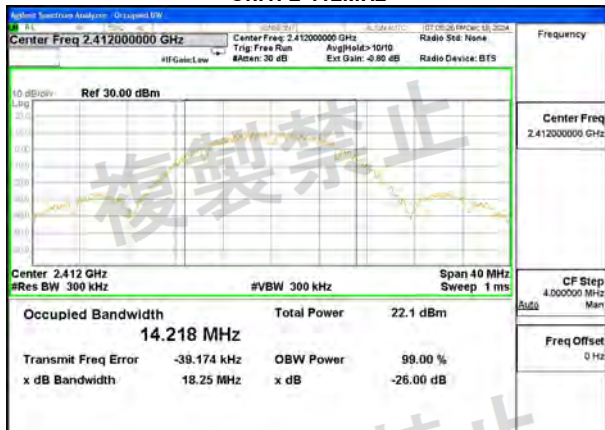
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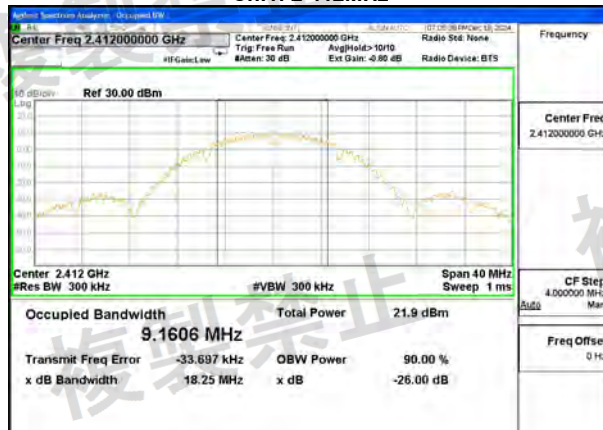
Occupied bandwidth

Ch.1: 2 412MHz

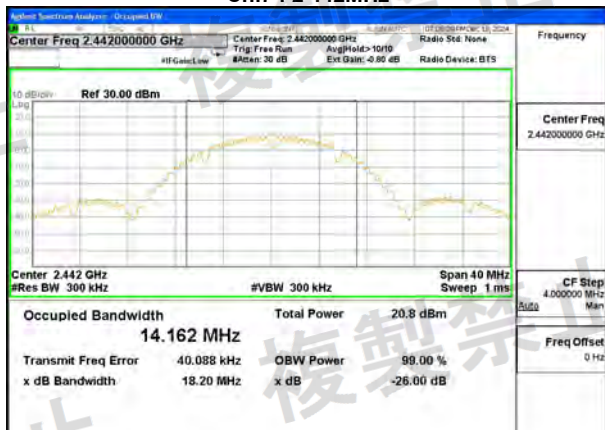


Spread bandwidth

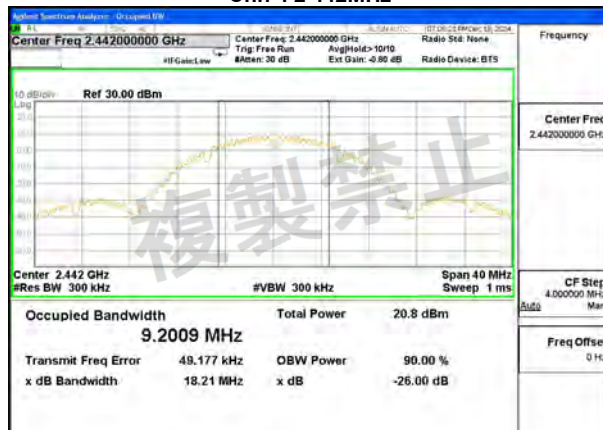
Ch.1: 2 412MHz



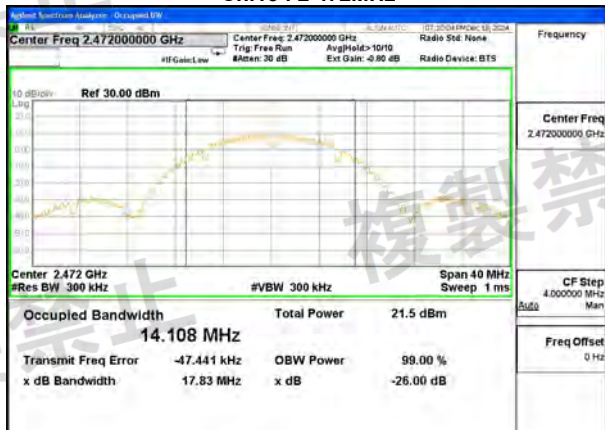
Ch.7 : 2 442MHz



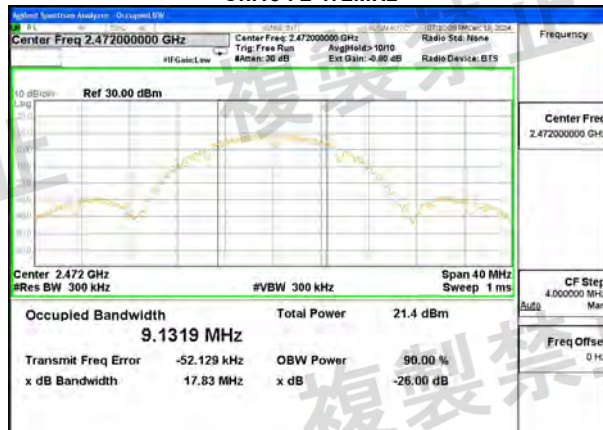
Ch.7 : 2 442MHz



Ch.13 : 2 472MHz



Ch.13 : 2 472MHz





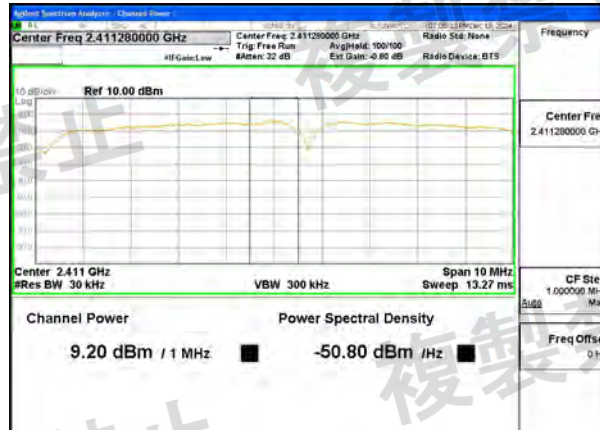
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RF output power

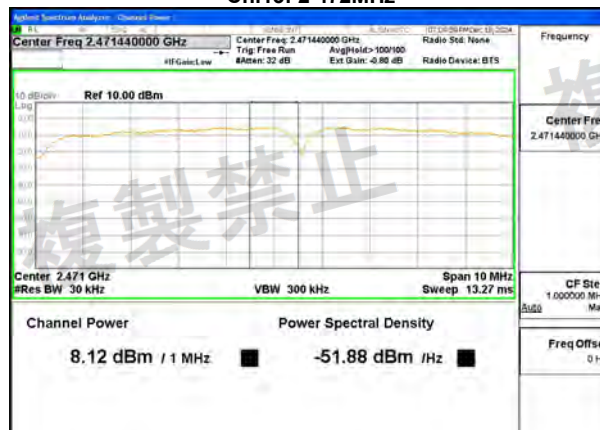
Ch.1: 2 412MHz



Ch.7: 2 442MHz



Ch.13: 2 472MHz



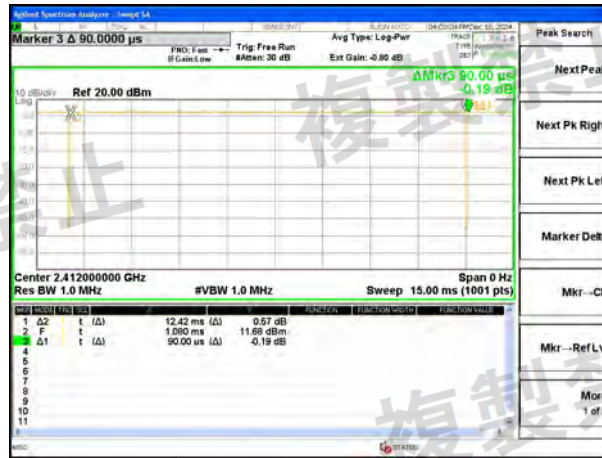


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ON/OFF time





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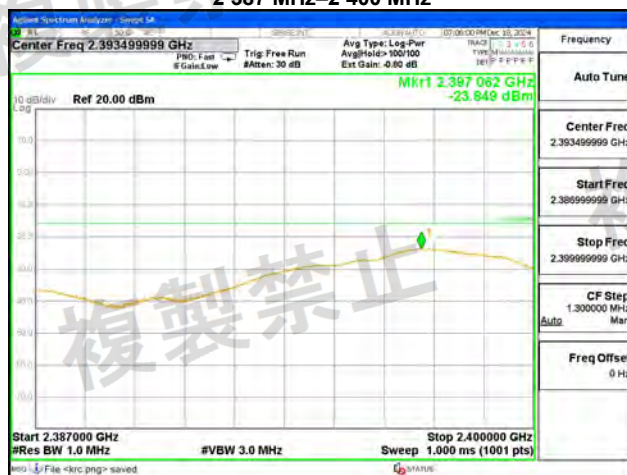
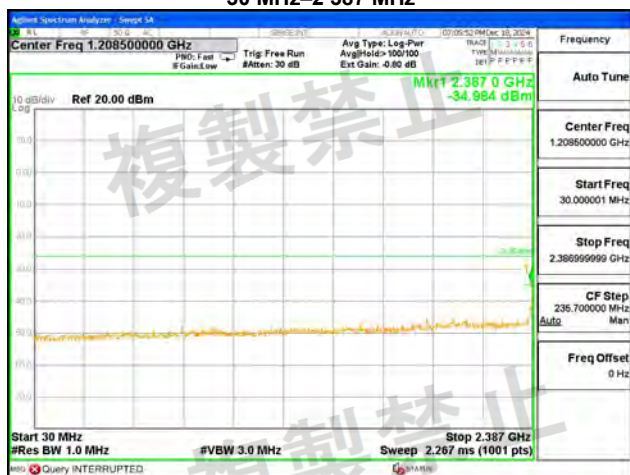
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Unwanted(Spurious) emission

Ch.1: 2 412MHz

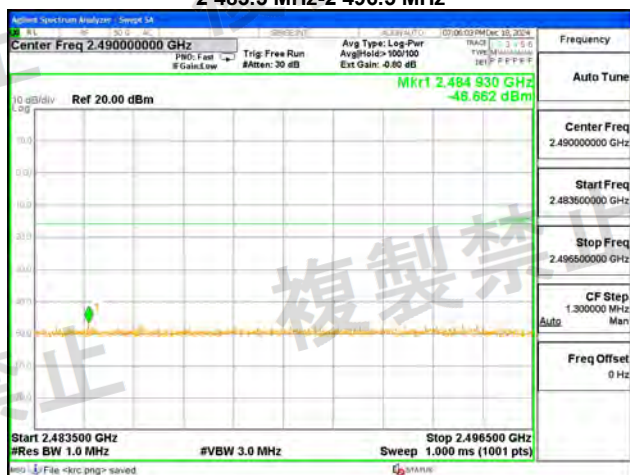
30 MHz-2 387 MHz

2 387 MHz-2 400 MHz



2 483.5 MHz-2 496.5 MHz

2 496.5 MHz-12 500 MHz





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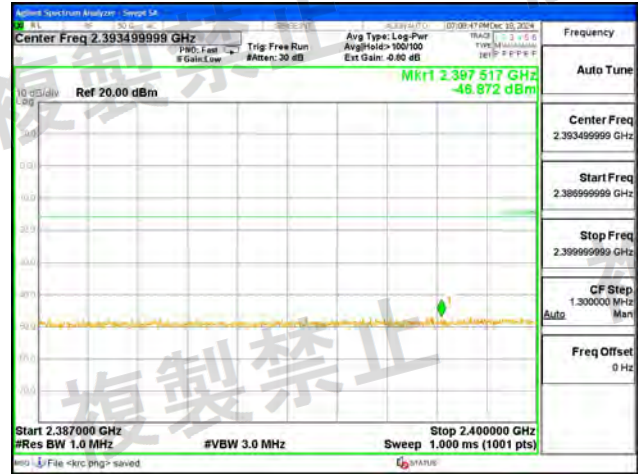
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Ch.7: 2 442MHz

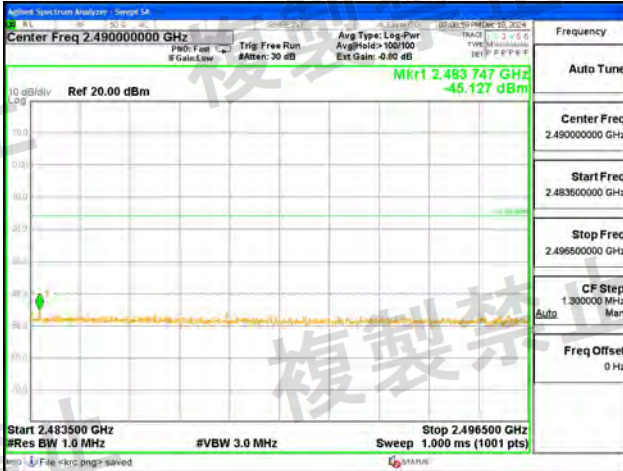
30 MHz–2 387 MHz



2 387 MHz–2 400 MHz



2 483.5 MHz–2 496.5 MHz



2 496.5 MHz–12 500 MHz





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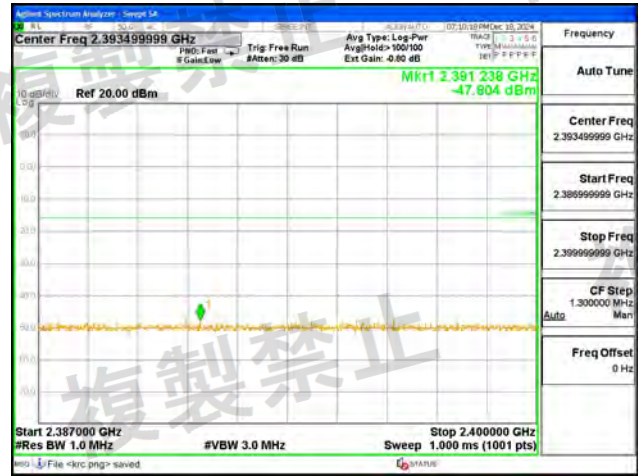
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Ch.13: 2 472MHz

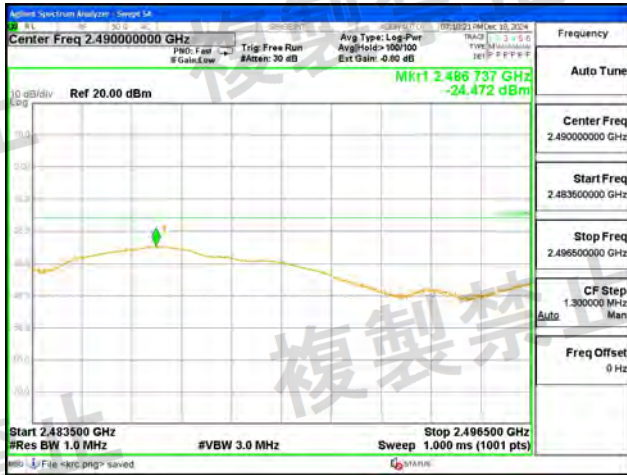
30 MHz-2 387 MHz



2 387 MHz-2 400 MHz



2 483.5 MHz-2 496.5 MHz



2 496.5 MHz-12 500 MHz





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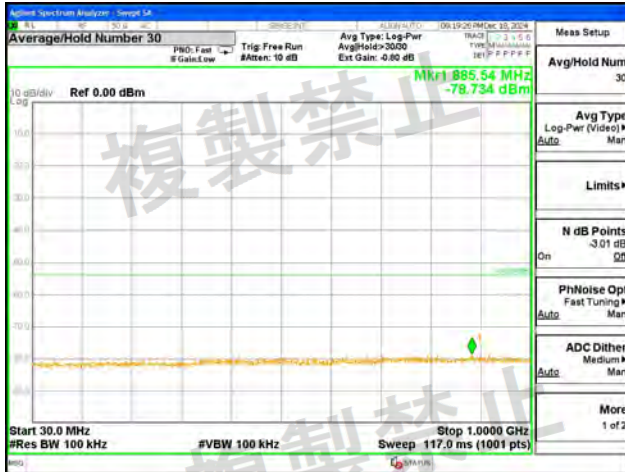
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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Secondary emitted radio wave strength

Ch.1: 2 412MHz

30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





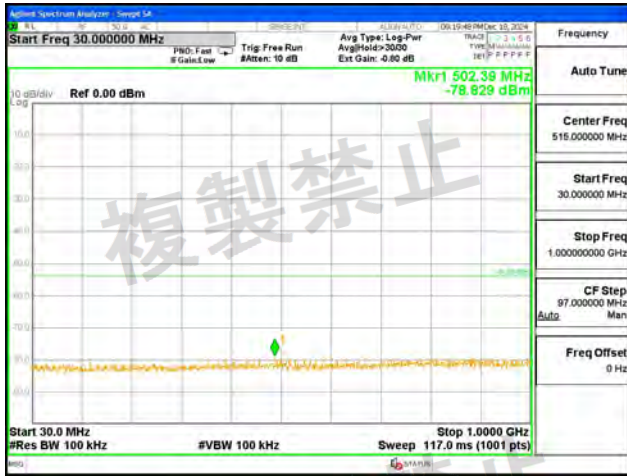
CTK Co., Ltd.

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Ch.7: 2 442MHz

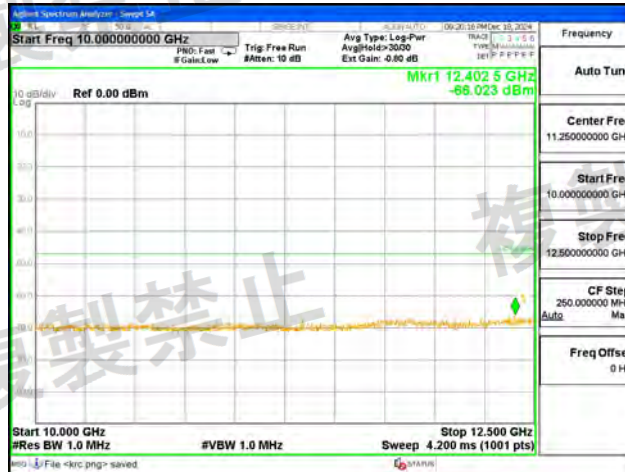
30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





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Gyeonggi-do, 17142, Korea
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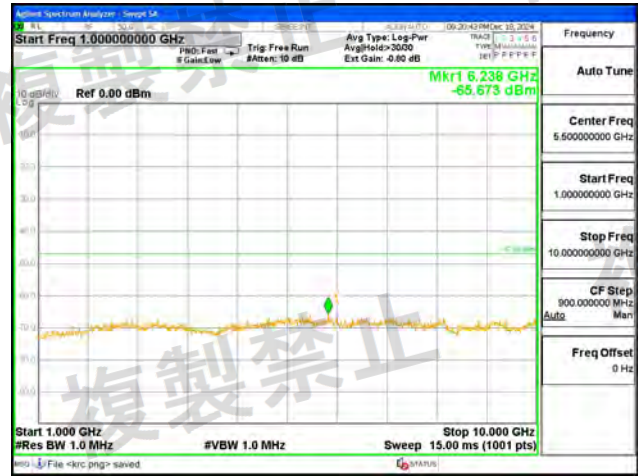
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Ch.13: 2 472MHz

30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





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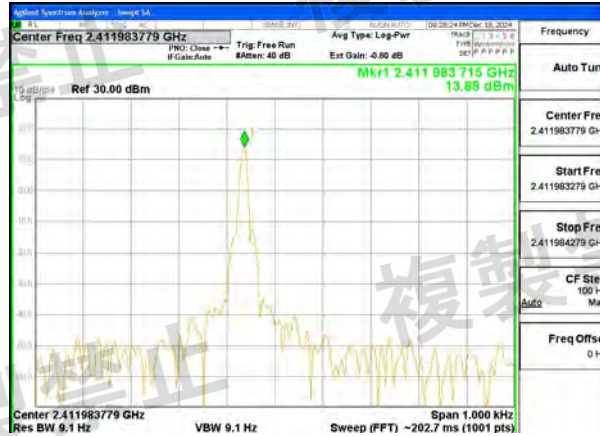
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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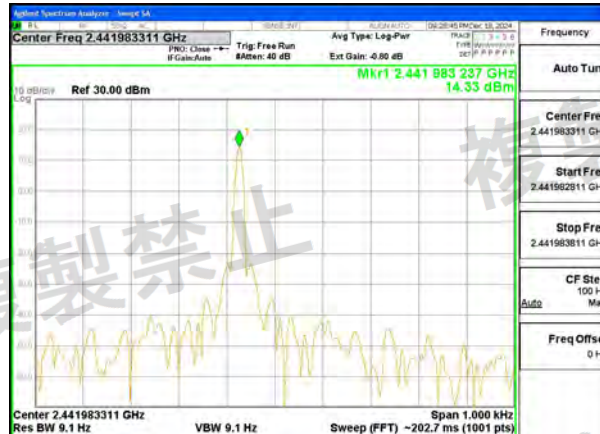
APPENDIX B – 802.11g

Frequency tolerance

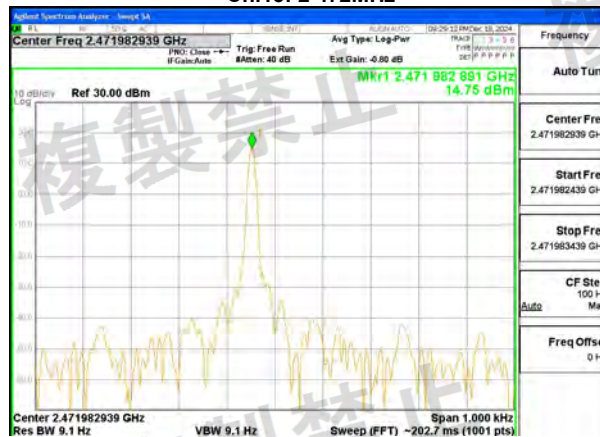
Ch.1: 2 412MHz



Ch.7: 2 442MHz



Ch.13: 2 472MHz





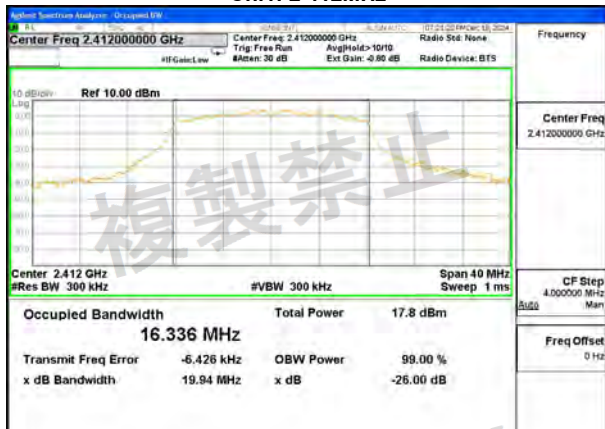
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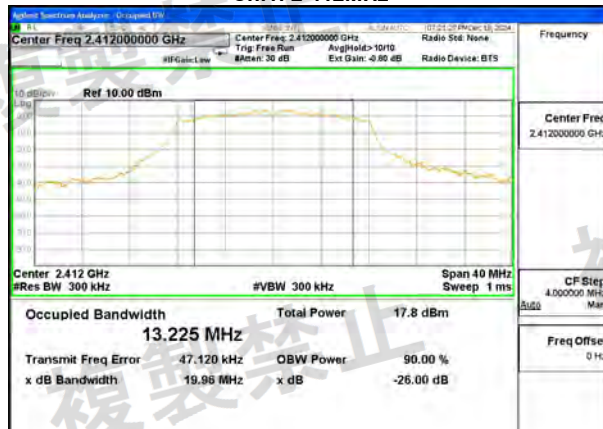
Occupied bandwidth

Ch.1: 2 412MHz

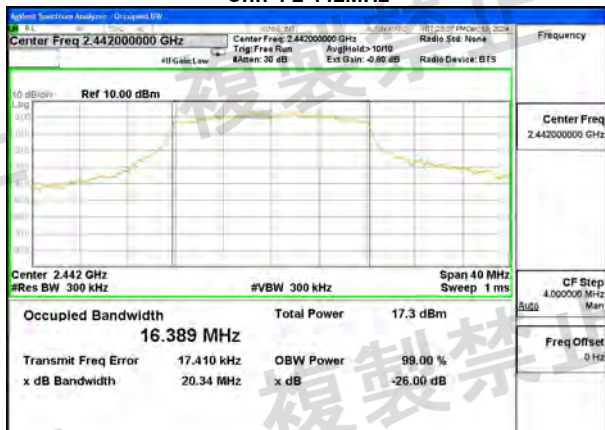


Spread bandwidth

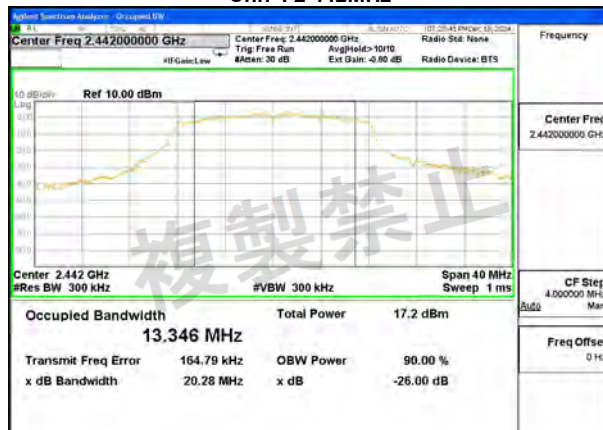
Ch.1: 2 412MHz



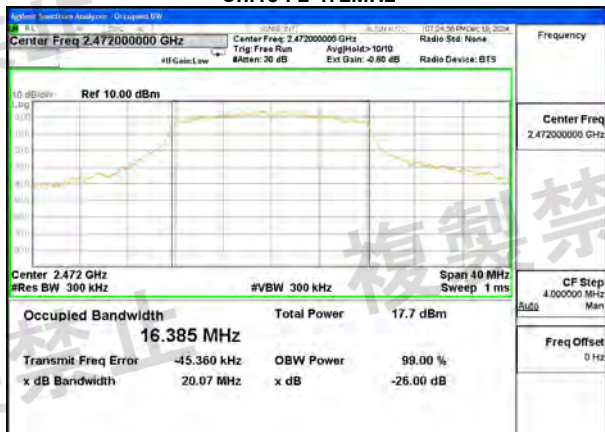
Ch.7 : 2 442MHz



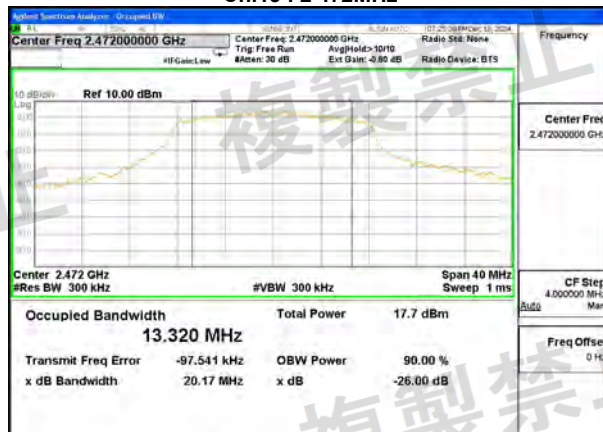
Ch.7 : 2 442MHz



Ch.13 : 2 472MHz



Ch.13 : 2 472MHz





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RF output power

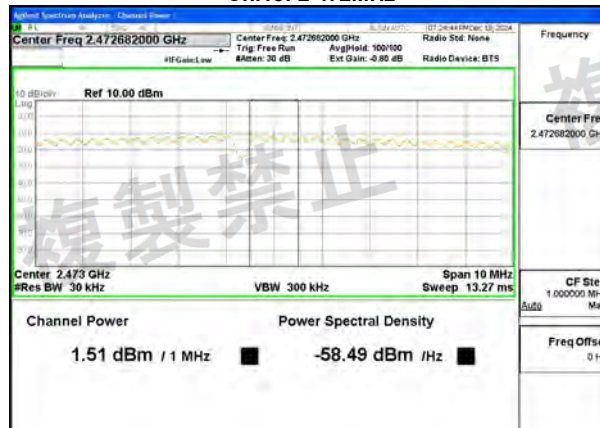
Ch.1: 2 412MHz



Ch.7: 2 442MHz



Ch.13: 2 472MHz



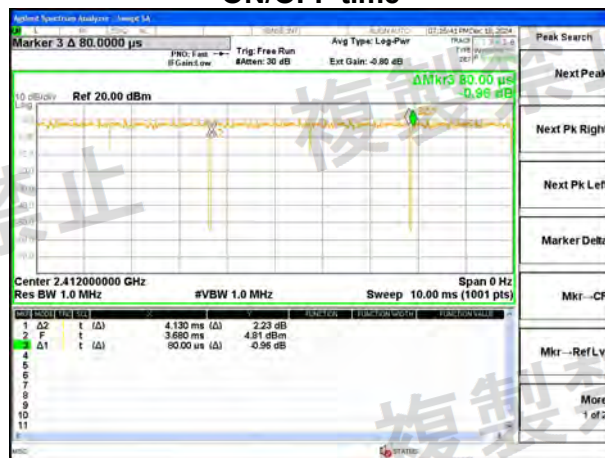


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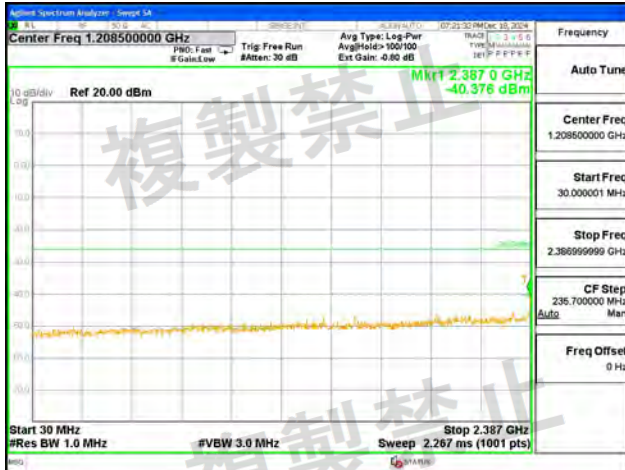
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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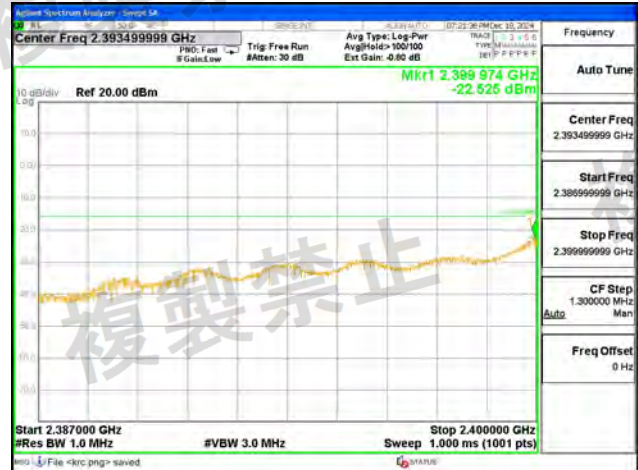
Unwanted(Spurious) emission

Ch.1: 2 412MHz

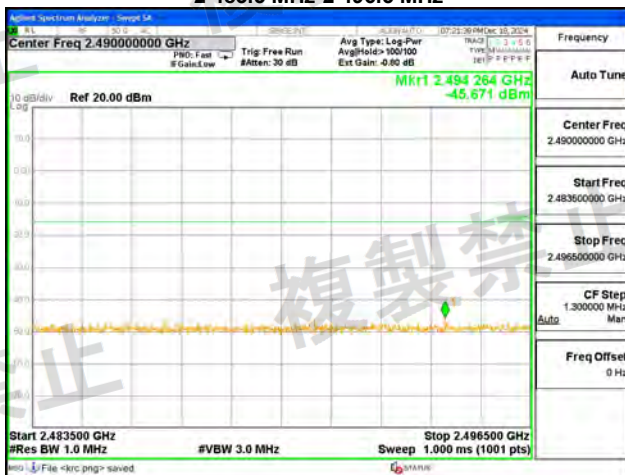
30 MHz-2 387 MHz



2 387 MHz-2 400 MHz



2 483.5 MHz-2 496.5 MHz



2 496.5 MHz-12 500 MHz





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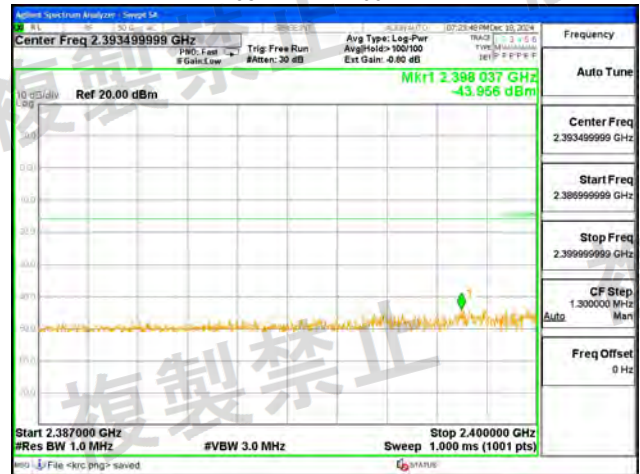
REPORT No.:
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Ch.7: 2 442MHz

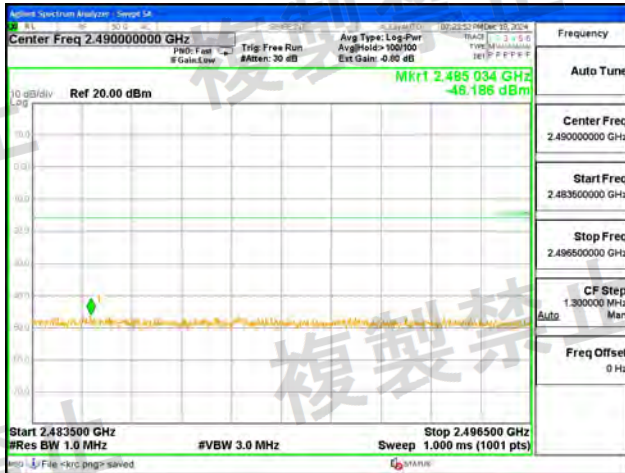
30 MHz–2 387 MHz



2 387 MHz–2 400 MHz



2 483.5 MHz–2 496.5 MHz



2 496.5 MHz–12 500 MHz





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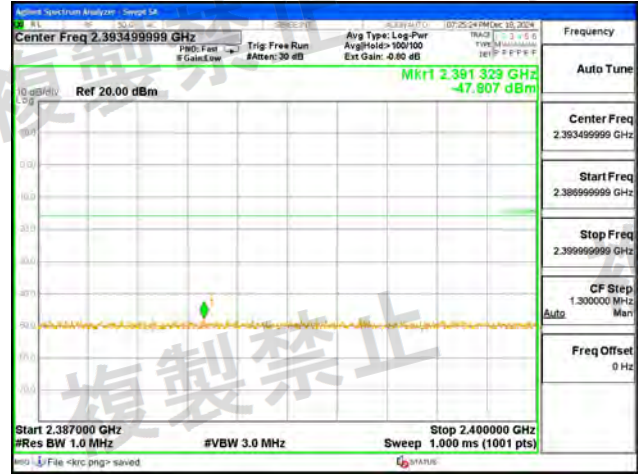
REPORT No.:
CTK-2026-00134-1
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Ch.13: 2 472MHz

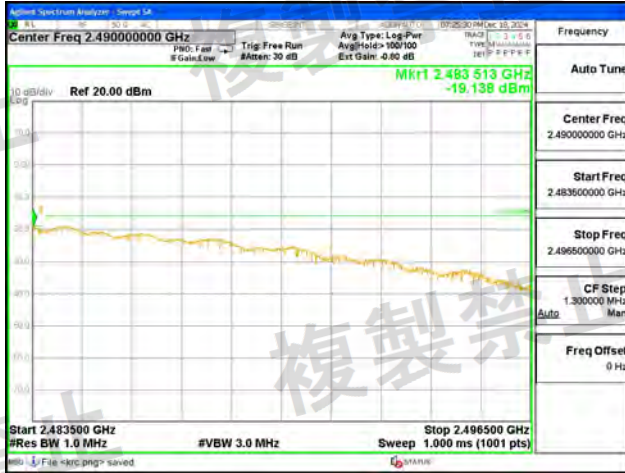
30 MHz-2 387 MHz



2 387 MHz-2 400 MHz



2 483.5 MHz-2 496.5 MHz



2 496.5 MHz-12 500 MHz





CTK Co., Ltd.

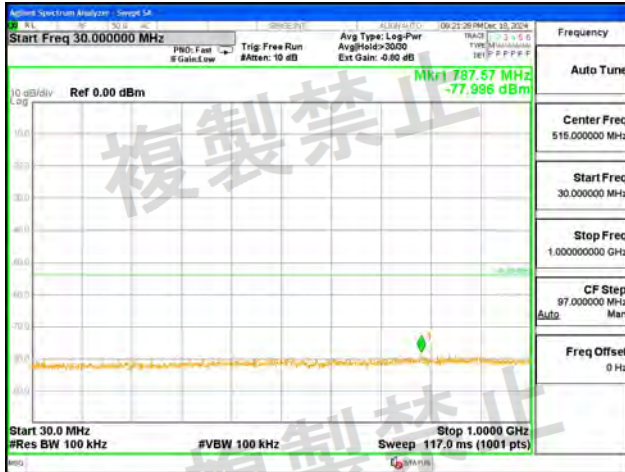
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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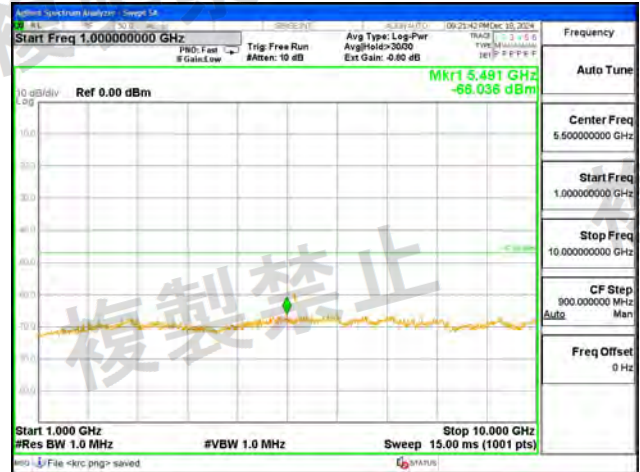
Secondary emitted radio wave strength

Ch.1: 2 412MHz

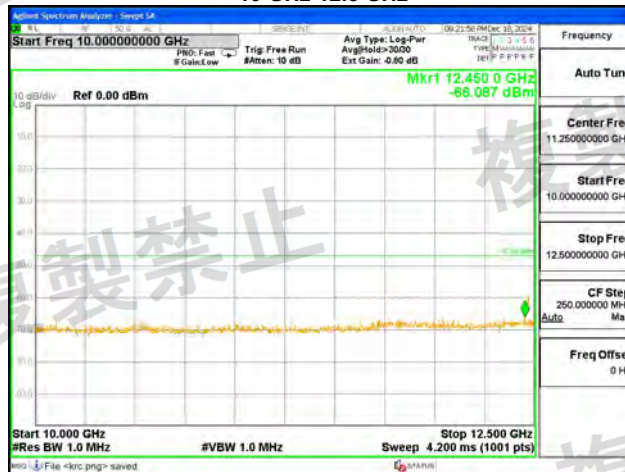
30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





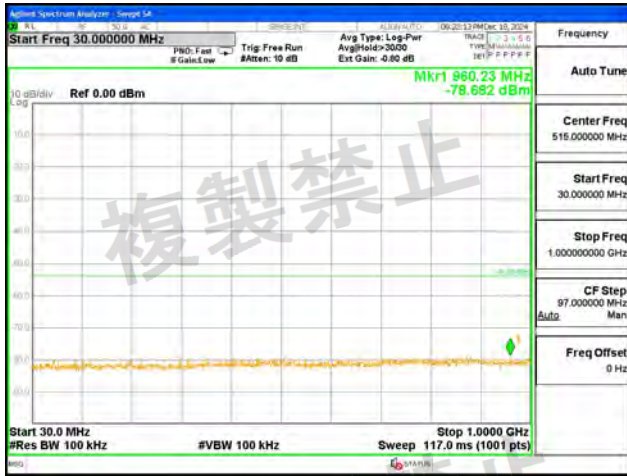
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Ch.7: 2 442MHz

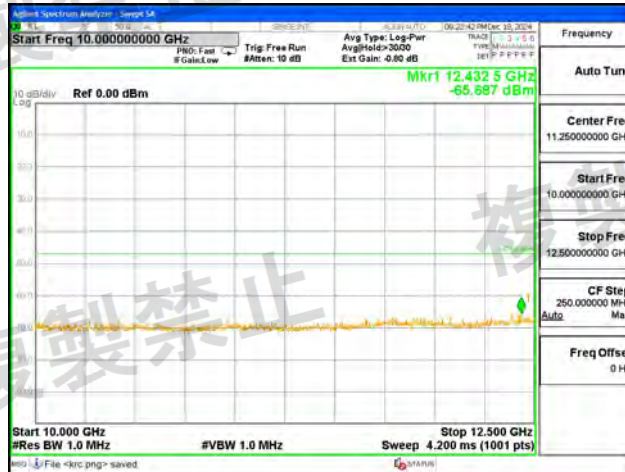
30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





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REPORT No.:
CTK-2026-00134-1
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Ch.13: 2 472MHz

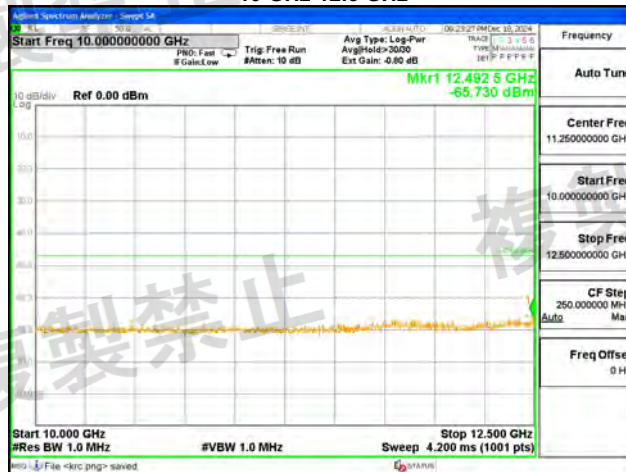
30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





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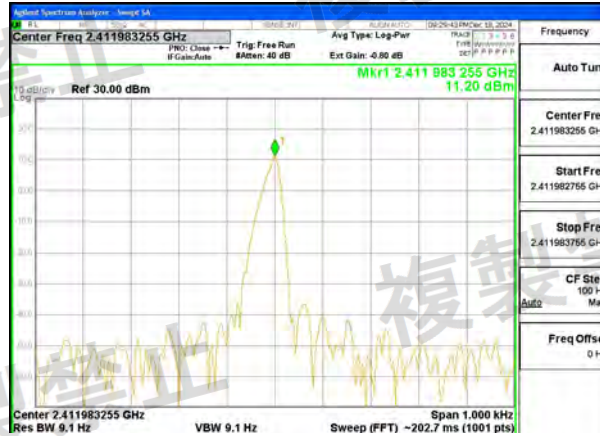
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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CTK-2026-00134-1
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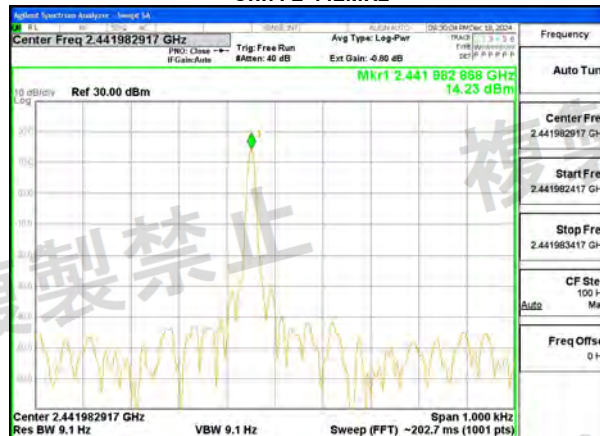
APPENDIX C – 802.11n_HT20

Frequency tolerance

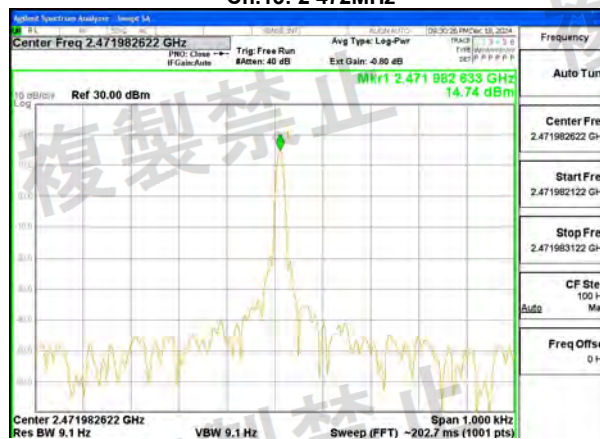
Ch.1: 2 412MHz



Ch.7: 2 442MHz



Ch.13: 2 472MHz





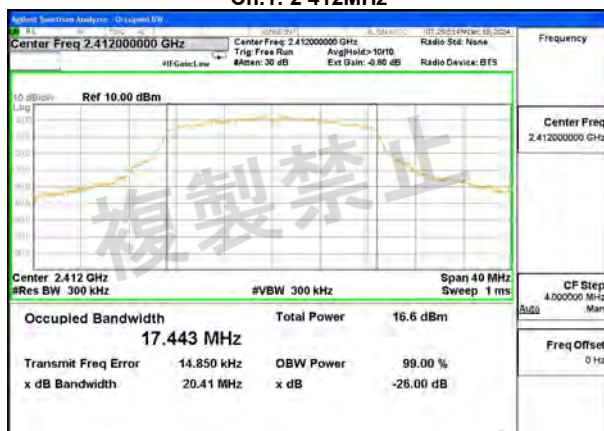
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Occupied bandwidth

Ch.1: 2 412MHz

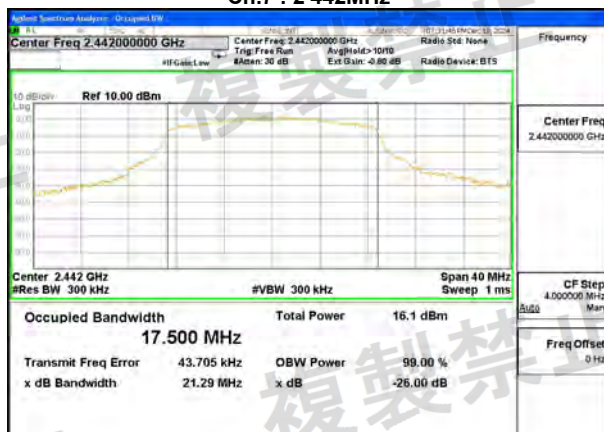


Spread bandwidth

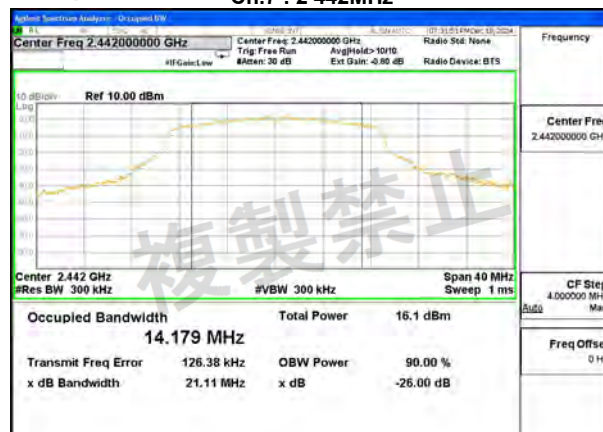
Ch.1: 2 412MHz



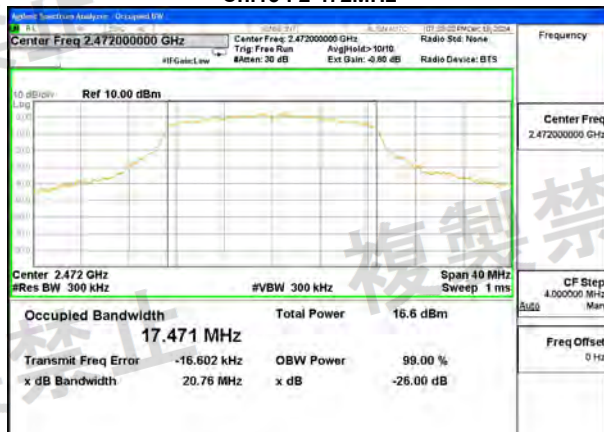
Ch.7 : 2 442MHz



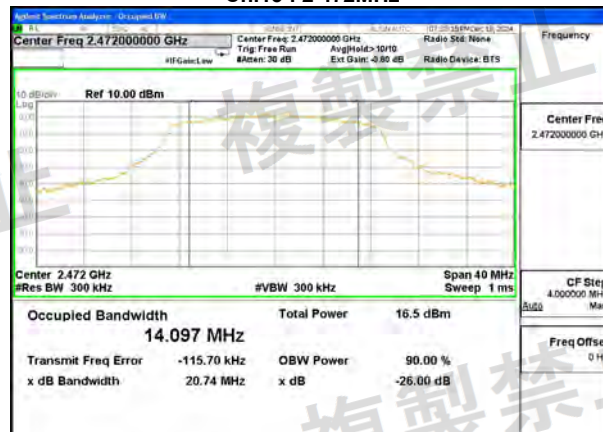
Ch.7 : 2 442MHz



Ch.13 : 2 472MHz



Ch.13 : 2 472MHz





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RF output power

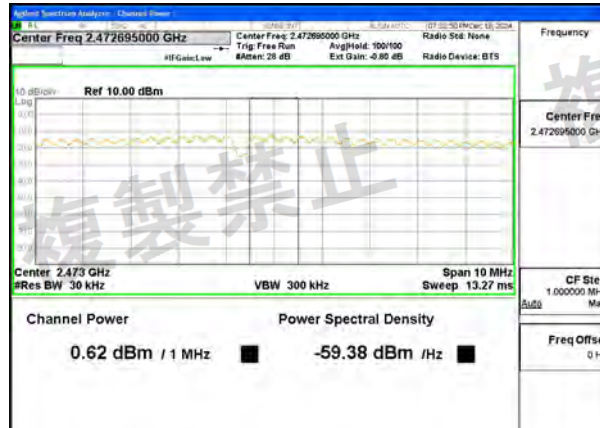
Ch.1: 2 412MHz



Ch.7: 2 442MHz



Ch.13: 2 472MHz



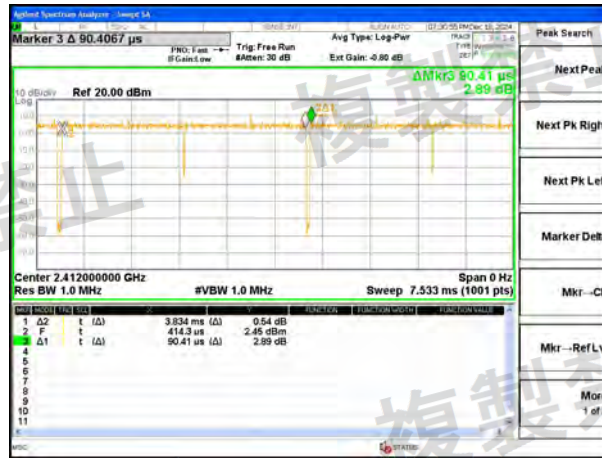


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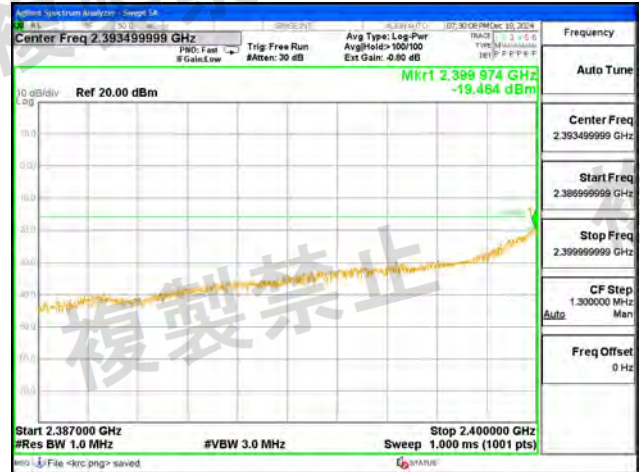
Unwanted(Spurious) emission

Ch.1: 2 412MHz

30 MHz-2 387 MHz



2 387 MHz-2 400 MHz



2 483.5 MHz-2 496.5 MHz



2 496.5 MHz-12 500 MHz





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Ch.7: 2 442MHz

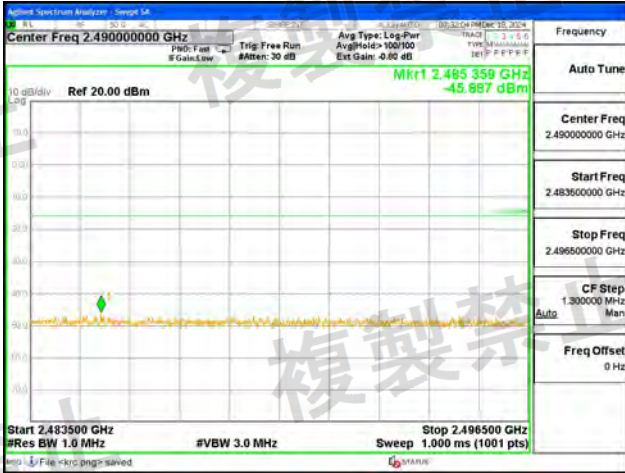
30 MHz–2 387 MHz



2 387 MHz–2 400 MHz



2 483.5 MHz–2 496.5 MHz



2 496.5 MHz–12 500 MHz





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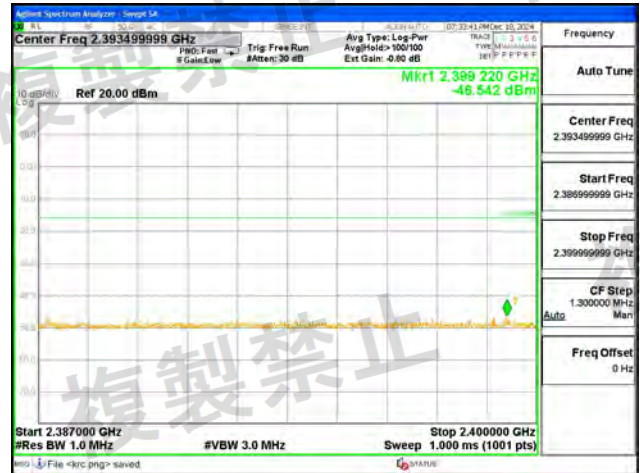
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Ch.13: 2 472MHz

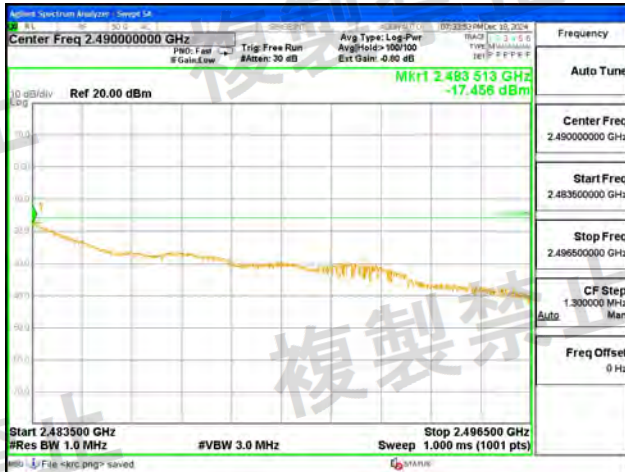
30 MHz-2 387 MHz



2 387 MHz-2 400 MHz



2 483.5 MHz-2 496.5 MHz



2 496.5 MHz-12 500 MHz





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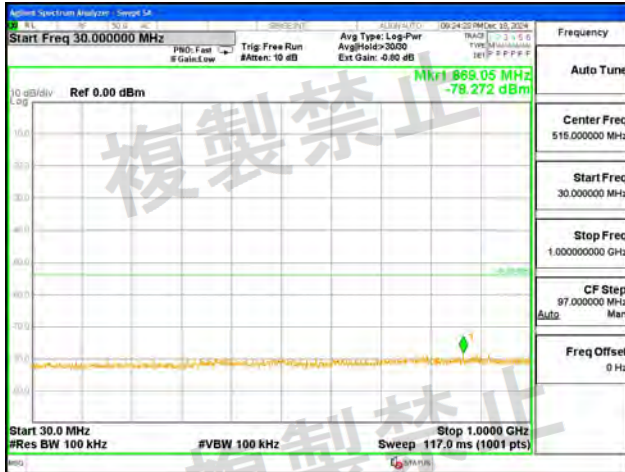
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
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Tel: +82-1551-9871
Fax: +82-31-624-9501

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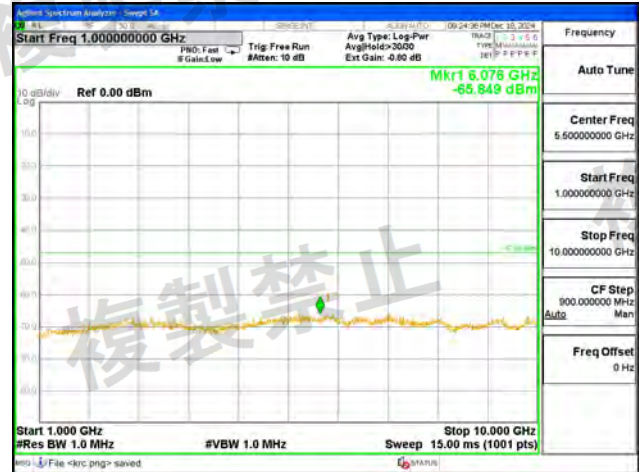
Secondary emitted radio wave strength

Ch.1: 2 412MHz

30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





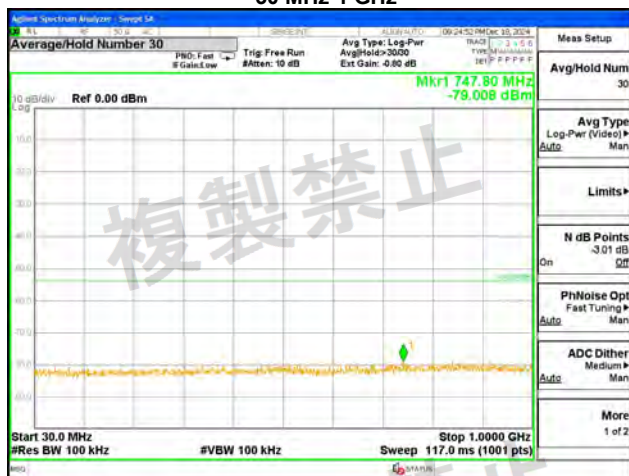
CTK Co., Ltd.

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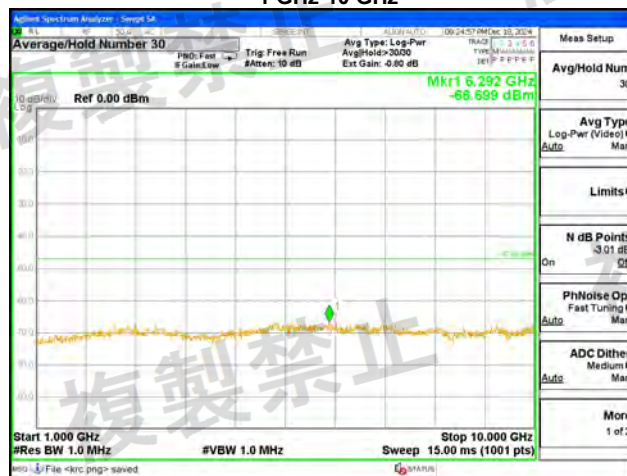
REPORT No.:
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Ch.7: 2 442MHz

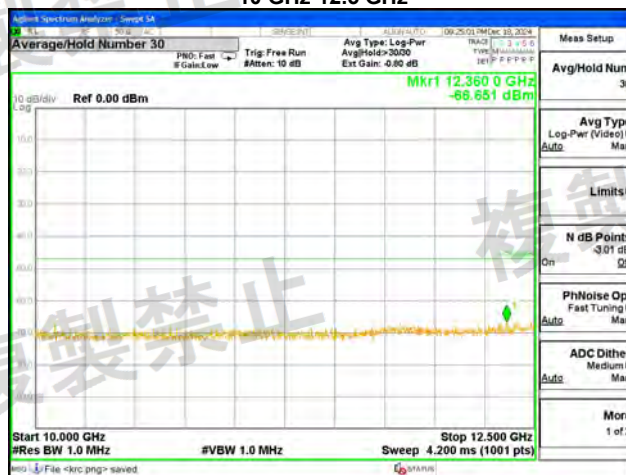
30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz





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REPORT No.:
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Ch.13: 2 472MHz

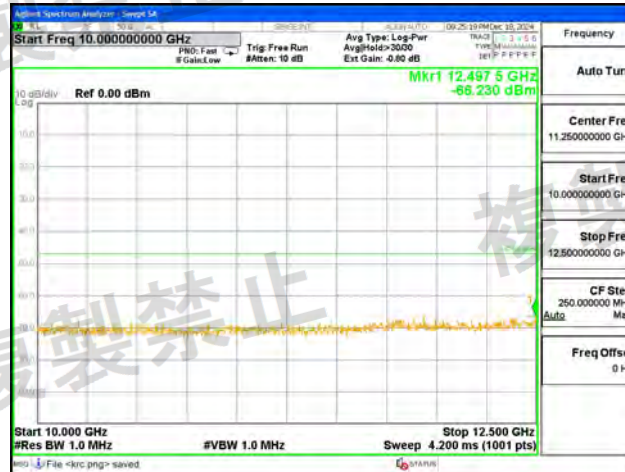
30 MHz-1 GHz



1 GHz-10 GHz



10 GHz-12.5 GHz



-END-