

JAPAN MIC TEST REPORT

For

Motic China Group Co., Ltd.

No. 810 Fangshan Nan Road, XiangAn District, Xiamen 361100, PR. China

Tested Model: SMZ172-i

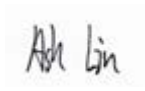
Report Type: Original Report	Product Type: Stereo Zoom Microscopes
Report Number: 2507Y32305E-RF-01	
Report Date: 2025-11-26	
Reviewed By: Ash Lin	
Approved By: Miles Chen	
Test Laboratory: Bay Area Compliance Laboratories Corp.(Fujian) 4th Floor, No. 65, Siming Industrial Park, Meixi Road, Tong'an District, Xiamen City, Fujian Province Tel: +86-592-3200111 www.baclcorp.com.cn	

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REPORT REVISION HISTORY

Number of Revision	Report No.	Version	Issue Date	Description
0	2507Y32305E-RF-01	Original Report	2025-11-26	Initial Release

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product Name:		Stereo Zoom Microscopes
Test Model:		SMZ172-i
Multiple Model(s):		N/A
Trade Name:		Motic
Power Supply:		DC 12V from adapter
Adapter Information	Model:	ICP30A-120-2500
	Input:	AC 100-240V, 50/60Hz, 0.8A
	Output:	DC 12V, 2.5A, 30W
RF output power:		802.11b: 3.4 mW/MHz 802.11g: 2.3 mW/MHz 802.11n20: 1.0 mW/MHz 802.11n40: 0.4 mW/MHz
RF Function:		2.4G Wifi
Operating Band/Frequency:		802.11b/g/n20: 2412-2472 MHz 802.11n40: 2422-2462 MHz
Modulation Type:		802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Number of TX Chain(s):		2
Number of RX Chain(s):		2
Emission Type:		G1D, D1D
★Maximum Antenna Gain:		3.4dBi
EUT Received Status:		Good
Note: 1. The maximum antenna gain is provided by the manufacturer. 2. All measurement and test data in this report was gathered from production sample serial number: 3BNM-1 (Assigned by the BACL (Fujian). The EUT supplied by the applicant was received on 2025-10-21.)		

Objective

The objective of this current document is to demonstrate the EUT, as equipment type in Certification Ordinance Article 2-1-19 of Specific Radio Equipment Specified in Article 38-2-2 Paragraph 1 Item 1 of the Radio Law, compliant with Article 49-20 of Radio equipment regulations.

Test Methodology

All measurements contained in this report were conducted with technical regulations of MIC Notice No.88 of 2004, Appendix No.43 (latest version: MIC Notice No.365 of 2020).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Fujian) to collect test data is located on the Unit 302, No. 902, Meifeng South Road, Tong'an District, Xiamen City.

Measurement Uncertainty

Item	$U_{\text{lab}} = 2 u_c(y)$ (Confidence of 95%)
Occupied Bandwidth	1.69%
Frequency Error	$0.085 \times 10^{-6} \text{MHz}$
Transmitter Conducted Power(Conducted RF power)	$\pm 1.49 \text{ dB}$
Conducted Spurious Emission	$\pm 2.92 \text{ dB}$
Duty Cycle	1%
Temperature	$\pm 1^\circ \text{C}$
Humidity	$\pm 5\%$
Voltage (AC, <10kHz)	$\pm 1\%$

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode, which was provided by manufacturer. 13 channels are provided as below table:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

For lowest, middle and highest channel, 802.11b, 802.11g and 802.11n-HT20 modes were tested with Channel 1, 7 and 13; 802.11n-HT40 mode was tested with Channel 3, 7 and 11.

★The extreme voltage test conditions which were declared by the manufacturer and the normal conditions are as below:

NV: Normal Voltage 100Vac

LV: Low Voltage 90Vac

HV: High Voltage 110Vac

The EUT powered by an adapter, power deviation of the adapter output is less than 1% when extreme voltage supplied, therefore the test only performed at normal condition. Details as following:

Voltage Condition	Input(Vac)	Output(Vdc)
NV	100	12
LV	90	12
HV	110	12

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

Software "REALTEK 11ac 8812AU USB WLAN NIC Massproduction Kit" was used for setting device works in engineering mode, and the maximum power level was configured as following setting, which was provided by manufacturer. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power and PSD across all data rates bandwidths, and modulations.

Mode	Channel	Frequency (MHz)	Data rate	Power level	
				Chain 0	Chain 1
802.11b	Low	2412	1Mbps	34	34
	Middle	2442	1Mbps	34	34
	High	2472	1Mbps	34	34
802.11g	Low	2412	6Mbps	47	37
	Middle	2442	6Mbps	47	37
	High	2472	6Mbps	47	37
802.11n ht20	Low	2412	MCS8	37	37
	Middle	2442	MCS8	37	37
	High	2472	MCS8	37	37

802.11n ht40	Low	2422	MCS8	37	37
	Middle	2442	MCS8	37	37
	High	2462	MCS8	37	37

Note: The device supports SISO in all modes, and MIMO 2T2R in 802.11n modes.

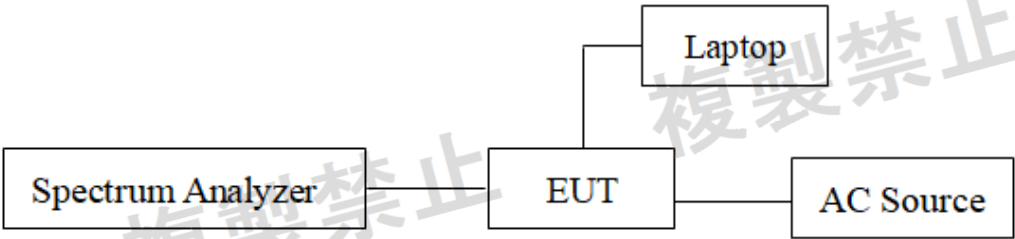
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Debug board	Unknown	Unknown
Lenovo	Laptop	T480	PF1P5K4F

Support Cable List and Details

Cable Description	Length (m)	From / Port	To
USB Cable	2	EUT	Laptop

Configuration of Test Setup



TEST EQUIPMENT LIST AND DETAILS

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method ^{Note}
Rohde & Schwarz	Spectrum Analyzer	FSU	100405	2025/2/20	2026/2/19	BACL Metrology	C
Agilent	Microwave Analog Signal Generator	N5183A	MY47420335	2025/2/20	2026/2/19	BACL Metrology	C
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	122920	2025/2/20	2026/2/19	BACL Metrology	C
narda	2 Way power divider	4426LB-2	1661	Each time	N/A	BACL (Fujian)	D
WACP	AC power source	ES-CPF-SD45-600	EO20230629001	2025/2/20	2026/2/19	BACL Metrology	C
Lianxun	Coaxial Cable	RF113	N/A	Each time	N/A	BACL (Fujian)	D

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Fujian) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Note:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- 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).
- Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

SUMMARY OF TEST RESULTS

Certification Ordinance Article 2-1-19 Conducted with: MIC Notice No.88 Appendix No.43	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth	Compliant
3	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliant
4	Antenna Output Power and Output Power Tolerance	Compliant
5	Receiver Spurious Emission and Unwanted Emission Intensity	Compliant
6	Carrier sense capability	Compliant
7	Transmission Antenna Gain	Not Applicable (See Note 1)
8	Transmission Radiation Angle Width	Not Applicable (See Note 1)
9	Interference Prevention Function	Compliant
10	Frequency Hopping Dwell Time	Not Applicable (See Note 2)
11	Construction Protection Confirmation	Compliant

Note 1: This item not applicable for the EIRP less than 12.14dBm/MHz for 20M bandwidth or less than 9.13dBm/MHz for 40M bandwidth.

Note 2: Testing is only required for FHSS system devices.

FREQUENCY ERROR

Limit

Within $\pm 50\text{ppm}$.

Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: MAX Hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

Test Data

Test Mode:	Transmitting	Test Date:	2025-11-03
Temperature:	25.3°C	ATM Pressure:	100.1kPa
Humidity:	49%	Test Engineer:	Apollo Luo

Test Result: Compliant

Chain 0

Test Condition	Mode	Channel	Fc (MHz)	Measured Frequency (MHz)	Result (ppm)	Limit (ppm)
NV	Single Carrier	Low	2412	2411.996	-1.66	≤ 50
			2422	2421.992	-3.30	≤ 50
		Middle	2442	2441.994	-2.46	≤ 50
			2462	2461.991	-3.66	≤ 50
		High	2472	2471.991	-3.64	≤ 50

Chain 1

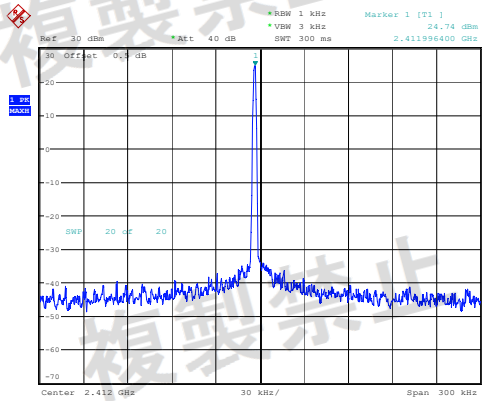
Test Condition	Mode	Channel	Fc (MHz)	Measured Frequency (MHz)	Result (ppm)	Limit (ppm)
NV	Single Carrier	Low	2412	2412.004	1.66	≤ 50
			2422	2421.996	-1.65	≤ 50
		Middle	2442	2442.001	0.41	≤ 50
			2462	2461.997	-1.22	≤ 50
		High	2472	2471.999	-0.40	≤ 50

Note: Frequency Tolerance = $(\text{Measure Frequency} - F_c) / F_c \times 10^6$

Please refer to the plots for normal voltage test.

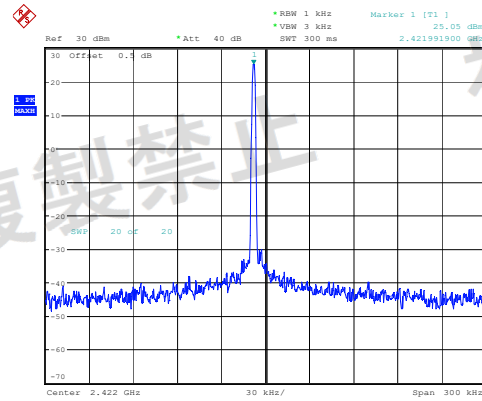
Chain 0, Test Condition: NV

2412MHz



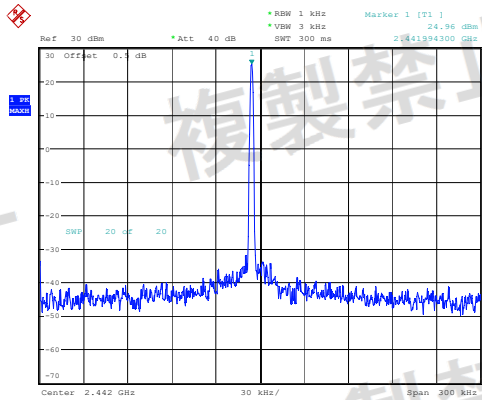
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Date: 3.NOV.2025 09:32:47

2422MHz



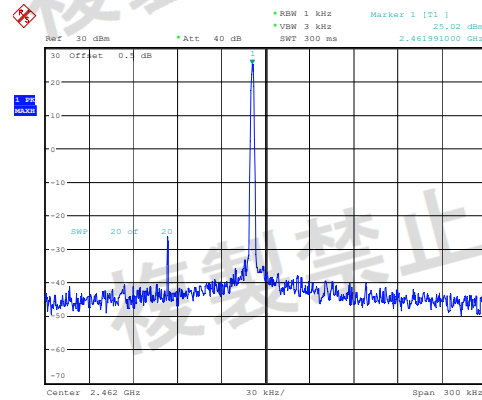
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2442MHz



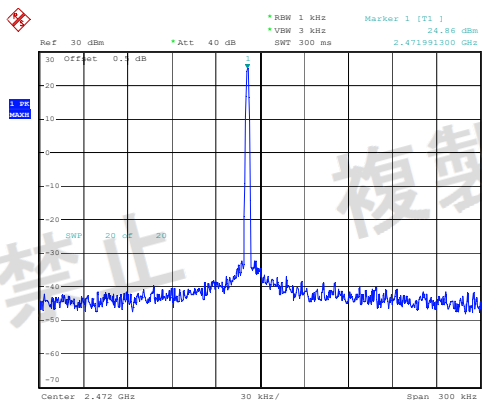
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2462MHz



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Date: 3.NOV.2025 09:41:05

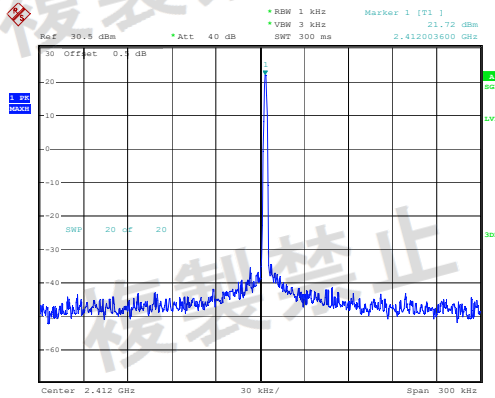
2472MHz



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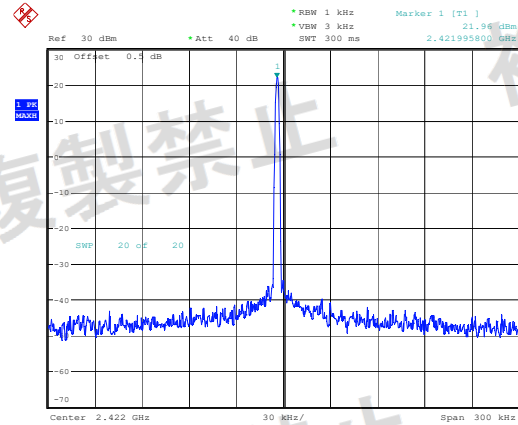
Chain 1, Test Condition: NV

2412MHz



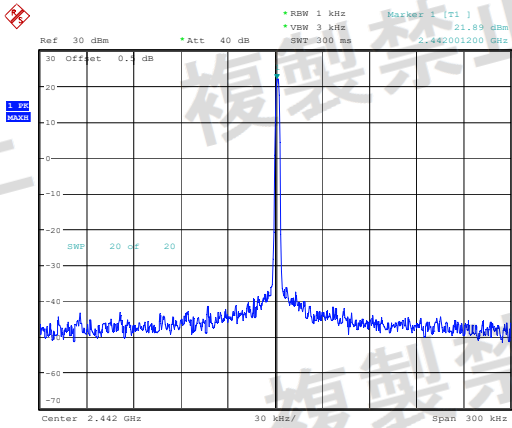
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2422MHz



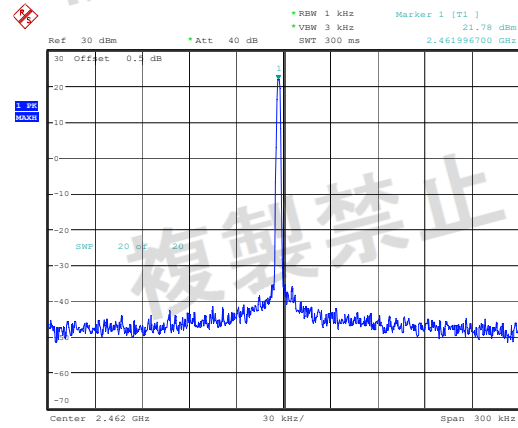
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2442MHz



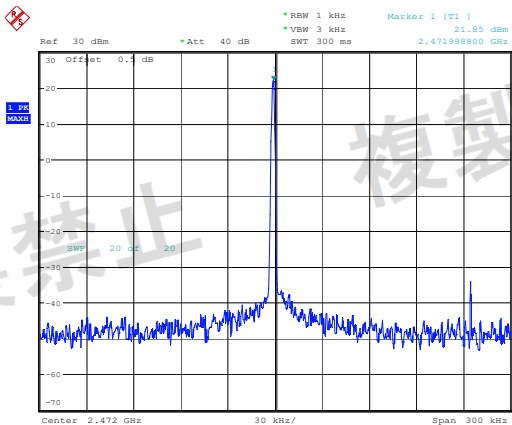
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Date: 3.NOV.2025 13:30:18

2462MHz



ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 13:36:50

2472MHz



ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 13:31:03

OCCUPIED BANDWIDTH

Limit

- Occupied bandwidth: ≤ 26 MHz
- Occupied bandwidth: ≥ 26 MHz and ≤ 40 MHz

Test Procedure

- Setting of SA is following as: RB: 300 kHz/VB: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of bandwidth function to measure occupied bandwidth.

Test Data

Test Mode:	Transmitting	Test Date:	2025-11-03
Temperature:	25.3°C	ATM Pressure:	100.1kPa
Humidity:	49%	Test Engineer:	Apollo Luo

Test Result: Compliant

Chain 0:

Test Condition	Occupied bandwidth (MHz)				
	Mode	Low Channel	Middle Channel	High Channel	Limit
NV	802.11 b	14.92	14.92	14.92	≤ 26
	802.11 g	16.72	16.76	16.76	≤ 26
	802.11 n20	17.80	17.80	17.80	≤ 26
	802.11 n40	36.24	36.24	36.16	26~40

Chain 1:

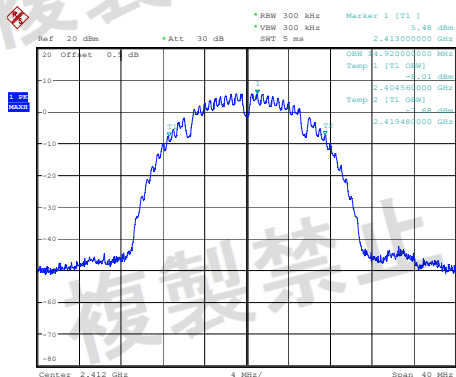
Test Condition	Occupied bandwidth (MHz)				
	Mode	Low Channel	Middle Channel	High Channel	Limit
NV	802.11 b	15.00	15.00	14.96	≤ 26
	802.11 g	16.76	16.76	16.80	≤ 26
	802.11 n20	17.92	17.92	17.92	≤ 26
	802.11 n40	36.24	36.24	36.24	26~40

Please refer to the plots for normal voltage test.

Chain 0, Test Condition: NV

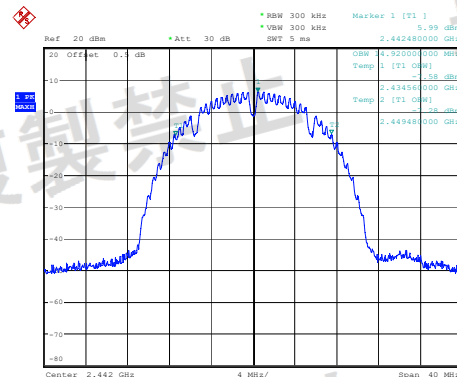
Occupied Bandwidth

802.11b, Low Channel



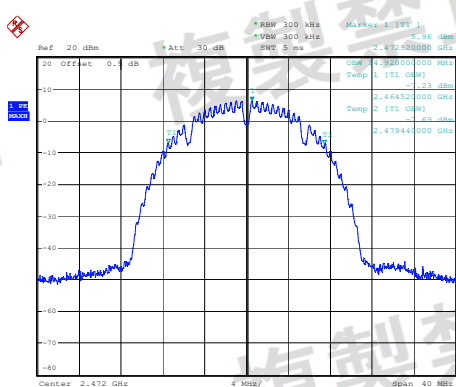
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Date: 3.NOV.2025 09:42:58

802.11b, Middle Channel



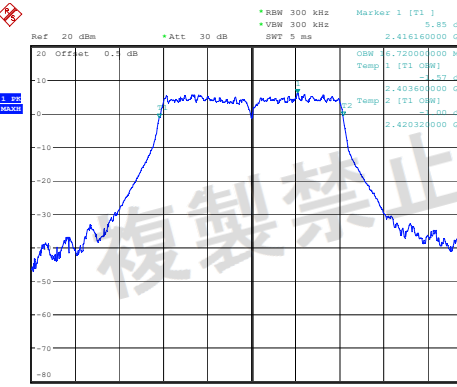
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Date: 3.NOV.2025 09:55:06

802.11b, High Channel



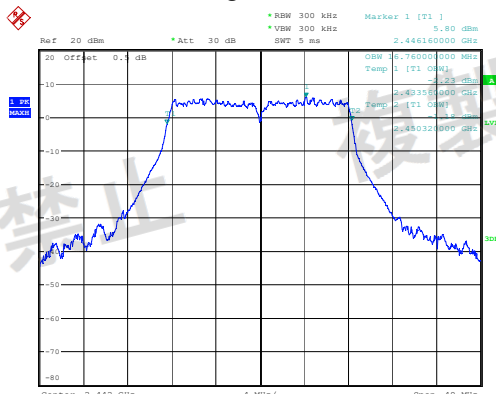
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Date: 3.NOV.2025 09:57:46

802.11g, Low Channel



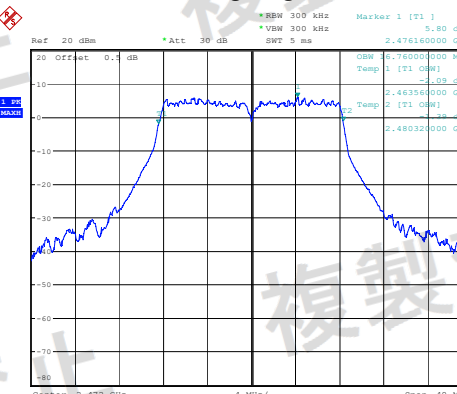
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Date: 3.NOV.2025 10:00:27

802.11g, Middle Channel



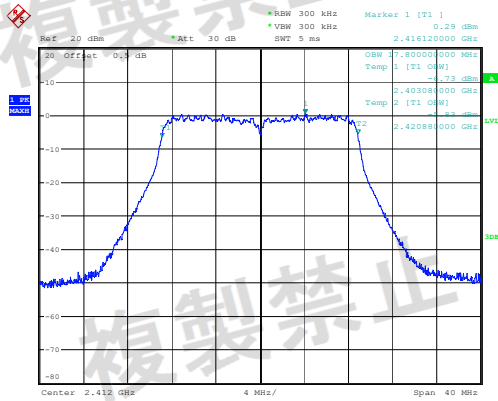
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Date: 3.NOV.2025 10:03:19

802.11g, High Channel



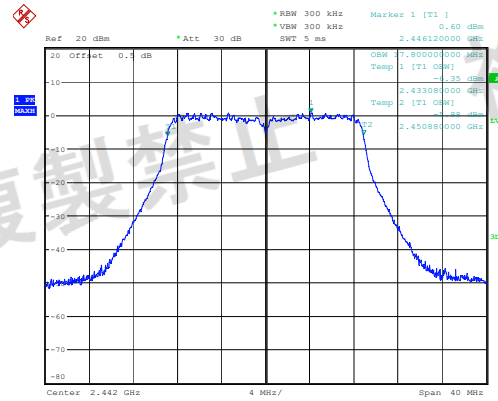
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Date: 3.NOV.2025 10:05:36

802.11n20, Low Channel



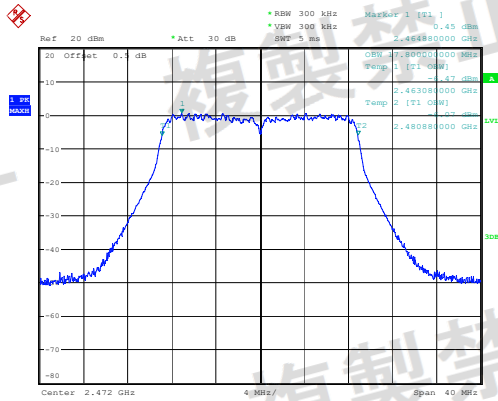
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Date: 3.NOV.2025 10:14:51

802.11n20, Middle Channel



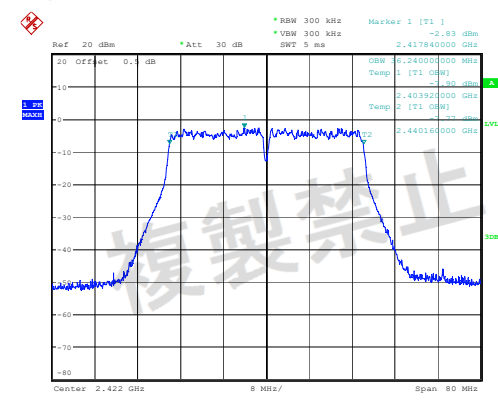
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Date: 3.NOV.2025 10:23:12

802.11n20, High Channel



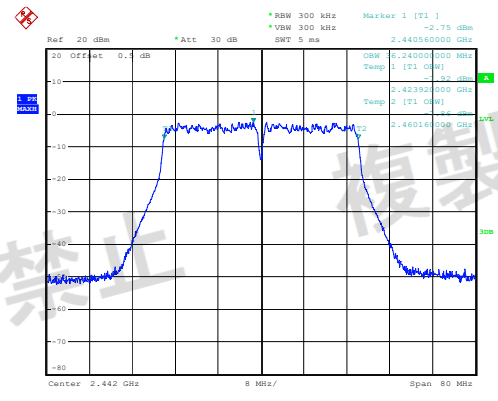
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:36:07

802.11n40, Low Channel



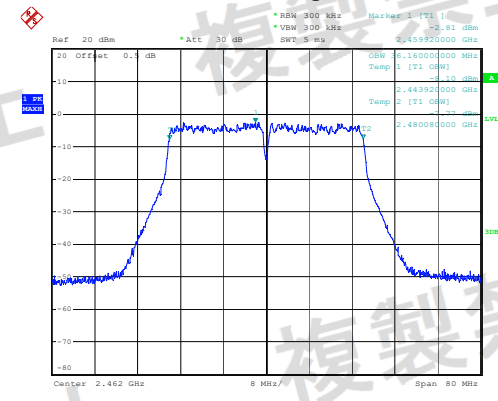
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:26:55

802.11n40, Middle Channel



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:29:42

802.11n40, High Channel

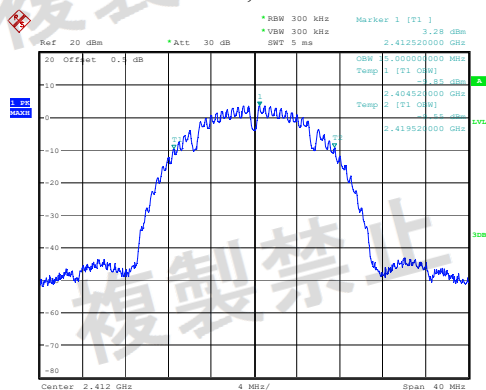


ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:31:37

Chain 1, Test Condition: NV

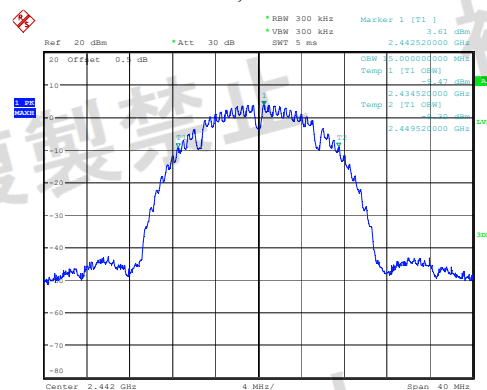
Occupied Bandwidth

802.11b, Low Channel



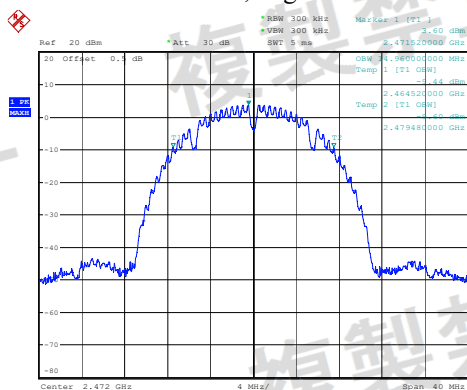
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 13:57:24

802.11b, Middle Channel



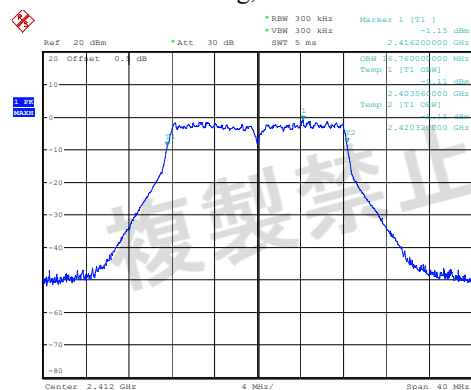
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Date: 3.NOV.2025 13:58:07

802.11b, High Channel



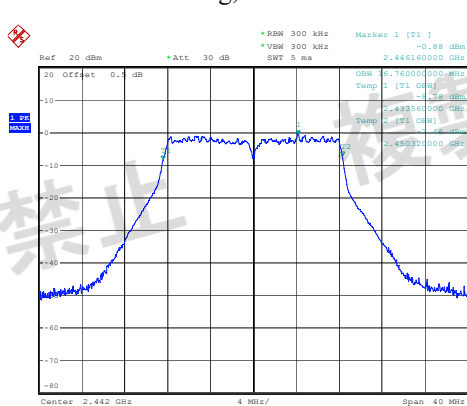
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Date: 3.NOV.2025 13:59:42

802.11g, Low Channel



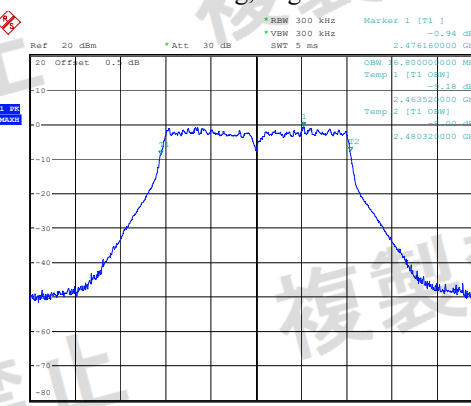
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 15:18:43

802.11g, Middle Channel



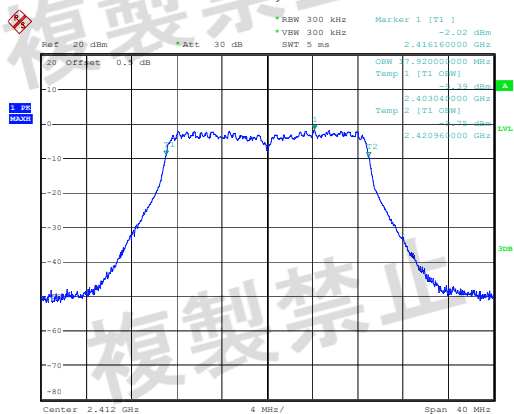
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Date: 3.NOV.2025 15:19:32

802.11g, High Channel



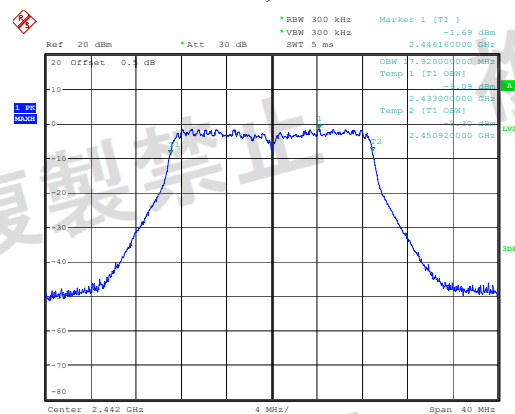
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Date: 3.NOV.2025 15:20:04

802.11n20, Low Channel



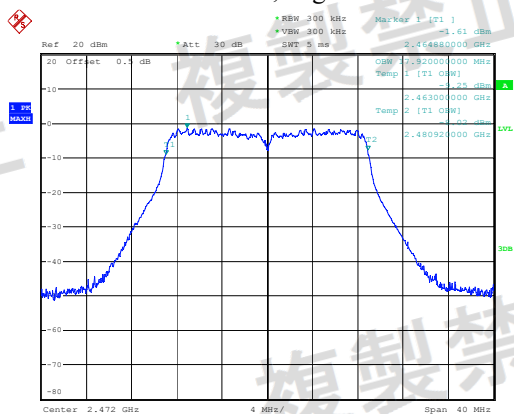
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Date: 3.NOV.2025 14:04:25

802.11n20, Middle Channel



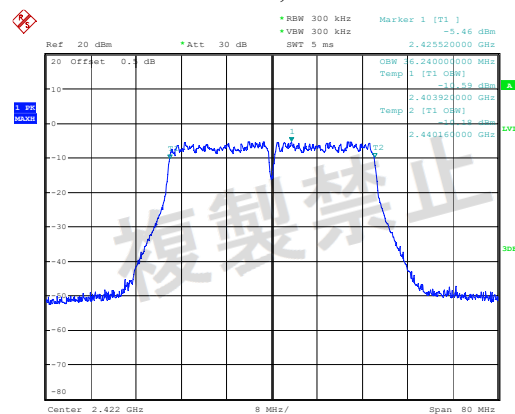
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 14:05:04

802.11n20, High Channel



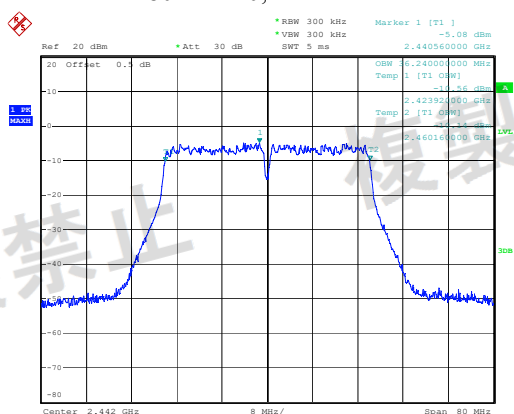
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 14:05:45

802.11n40, Low Channel



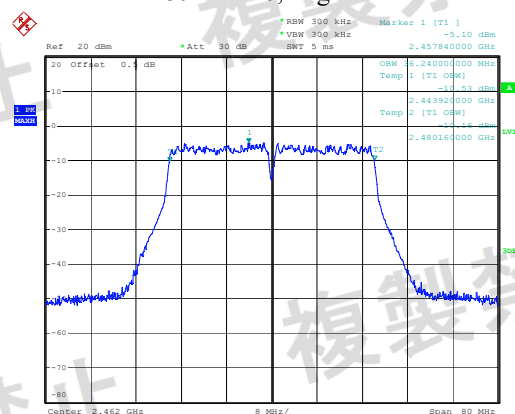
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 14:07:10

802.11n40, Middle Channel



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 14:07:49

802.11n40, High Channel



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 14:08:21

TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

- $30\text{MHz} \leq f < 2387\text{ MHz}: \leq 2.5\mu\text{W}/\text{MHz}$
- $2387\text{ MHz} \leq f \leq 2400\text{ MHz}: \leq 25\mu\text{W}/\text{MHz};$
- $2483.5\text{ MHz} < f \leq 2496.5\text{ MHz}: \leq 25\mu\text{W}/\text{MHz}$
- $2496.5\text{ MHz} < f \leq 12500\text{MHz}: \leq 2.5\mu\text{W}/\text{MHz}$

Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

❖ Spectrum Analyzer Conditions

- Setting of SA start 30MHz and stop frequency 1000MHz, RB: 100kHz/VB: 100kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $0.25\mu\text{W}/100\text{kHz}$.
- Setting of SA start 1000MHz and stop frequency 2387MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $2.5\mu\text{W}/\text{MHz}$.
- Setting of SA start 2387MHz and stop frequency 2400MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $25\mu\text{W}/\text{MHz}$.
- Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $25\mu\text{W}/\text{MHz}$.
- Setting of SA start 2496.5MHz and stop frequency 12500MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $2.5\mu\text{W}/\text{MHz}$.

If above test over the limit, the below test procedure should be used:

Step 1:

Center the frequency which was want to investigate, search the peak frequency.

Step 2:

- Center frequency: Searched Frequency
- Span: 0Hz
- RBW: 1MHz(Above 1GHz), VBW: Same as RBW.
- Sweep time: Auto(Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: 400 points or more. Sweep mode: Single Sweep.
- Detection Mode: Sample

Test Data

Test Mode:	Transmitting	Test Date:	2025-11-03
Temperature:	25.3°C	ATM Pressure:	100.1kPa
Humidity:	49%	Test Engineer:	Apollo Luo

Test Result: Compliant**Test Condition:** NV**Chain 0, 802.11b**

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	97.415	-44.12	0.039	0.25	Pass
	Band II (1MHz)	1000	2387	2328.746	-45.66	0.027	2.50	Pass
	Band III (1MHz)	2387	2400	2400	-38.96	0.127	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2492.08	-42.77	0.053	25	Pass
	Band V (1MHz)	2496.5	12500	2521.50875	-41.07	0.078	2.50	Pass
Middle	Band I (100kHz)	30	1000	127.485	-44.00	0.040	0.25	Pass
	Band II (1MHz)	1000	2387	2361.3405	-45.61	0.027	2.50	Pass
	Band III (1MHz)	2387	2400	2394.3515	-44.87	0.033	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2490.7085	-44.47	0.036	25	Pass
	Band V (1MHz)	2496.5	12500	2521.50875	-45.35	0.029	2.50	Pass
High	Band I (100kHz)	30	1000	157.555	-43.75	0.042	0.25	Pass
	Band II (1MHz)	1000	2387	2368.2755	-47.57	0.017	2.50	Pass
	Band III (1MHz)	2387	2400	2391.7645	-43.97	0.040	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5065	-35.70	0.269	25	Pass
	Band V (1MHz)	2496.5	12500	2496.5	-44.71	0.034	2.50	Pass

Chain 0, 802.11g

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	97.415	-49.45	0.011	0.25	Pass
	Band II (1MHz)	1000	2387	2385.613	-41.83	0.066	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9675	-17.85	16.406	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2487.0035	-43.00	0.050	25	Pass
	Band V (1MHz)	2496.5	12500	2531.51225	-43.20	0.048	2.50	Pass
Middle	Band I (100kHz)	30	1000	126.03	-50.16	0.010	0.25	Pass
	Band II (1MHz)	1000	2387	2362.7275	-45.83	0.026	2.50	Pass
	Band III (1MHz)	2387	2400	2395.606	-44.03	0.040	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.3655	-44.05	0.039	25	Pass
	Band V (1MHz)	2496.5	12500	2521.50875	-45.03	0.031	2.50	Pass
High	Band I (100kHz)	30	1000	157.07	-49.09	0.012	0.25	Pass
	Band II (1MHz)	1000	2387	1935.5315	-44.94	0.032	2.50	Pass

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
High	Band III (1MHz)	2387	2400	2399.974	-43.61	0.044	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.526	-16.18	24.099	25	Pass
	Band V (1MHz)	2496.5	12500	2496.5	-42.75	0.053	2.50	Pass

Chain 1, 802.11b

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	97.415	-47.84	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	2381.452	-46.07	0.025	2.50	Pass
	Band III (1MHz)	2387	2400	2397.712	-39.22	0.120	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2492.3465	-43.48	0.045	25	Pass
	Band V (1MHz)	2496.5	12500	11324.58875	-45.03	0.031	2.50	Pass
Middle	Band I (100kHz)	30	1000	127.485	-47.70	0.017	0.25	Pass
	Band II (1MHz)	1000	2387	1930.677	-41.25	0.075	2.50	Pass
	Band III (1MHz)	2387	2400	2396.581	-45.67	0.027	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2486.1065	-45.46	0.028	25	Pass
	Band V (1MHz)	2496.5	12500	12014.83025	-44.75	0.033	2.50	Pass
High	Band I (100kHz)	30	1000	157.555	-47.83	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	2353.712	-47.35	0.018	2.50	Pass
	Band III (1MHz)	2387	2400	2389.0995	-45.82	0.026	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.526	-37.94	0.161	25	Pass
	Band V (1MHz)	2496.5	12500	11119.517	-45.20	0.030	2.50	Pass

Chain 1, 802.11g

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	994.665	-52.97	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2340.5355	-46.92	0.020	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9805	-23.21	4.775	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.2355	-45.17	0.030	25	Pass
	Band V (1MHz)	2496.5	12500	11664.70775	-45.57	0.028	2.50	Pass
Middle	Band I (100kHz)	30	1000	616.365	-53.48	0.004	0.25	Pass
	Band II (1MHz)	1000	2387	2362.034	-47.64	0.017	2.50	Pass
	Band III (1MHz)	2387	2400	2398.5375	-45.80	0.026	25	Pass

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Middle	Band IV (1MHz)	2483.5	2496.5	2486.5225	-45.73	0.027	25	Pass
	Band V (1MHz)	2496.5	12500	11174.53625	-45.11	0.031	2.50	Pass
High	Band I (100kHz)	30	1000	608.12	-52.96	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2385.613	-47.43	0.018	2.50	Pass
	Band III (1MHz)	2387	2400	2387.117	-46.19	0.024	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5195	-21.04	7.870	25	Pass
	Band V (1MHz)	2496.5	12500	11069.4995	-45.60	0.028	2.50	Pass

Chain 0&1, 802.11n20

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	923.855	-53.02	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2385.613	-47.06	0.020	2.50	Pass
	Band III (1MHz)	2387	2400	2400	-21.37	7.295	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2491.339	-44.79	0.033	25	Pass
	Band V (1MHz)	2496.5	12500	11059.496	-45.30	0.030	2.50	Pass
Middle	Band I (100kHz)	30	1000	601.33	-53.65	0.004	0.25	Pass
	Band II (1MHz)	1000	2387	1929.9835	-44.64	0.034	2.50	Pass
	Band III (1MHz)	2387	2400	2399.8245	-45.55	0.028	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2492.548	-45.33	0.029	25	Pass
	Band V (1MHz)	2496.5	12500	11674.71125	-45.62	0.027	2.50	Pass
High	Band I (100kHz)	30	1000	773.505	-52.29	0.006	0.25	Pass
	Band II (1MHz)	1000	2387	2387	-47.54	0.018	2.50	Pass
	Band III (1MHz)	2387	2400	2394.7415	-45.90	0.026	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.552	-19.61	10.940	25	Pass
	Band V (1MHz)	2496.5	12500	11049.4925	-44.84	0.033	2.50	Pass

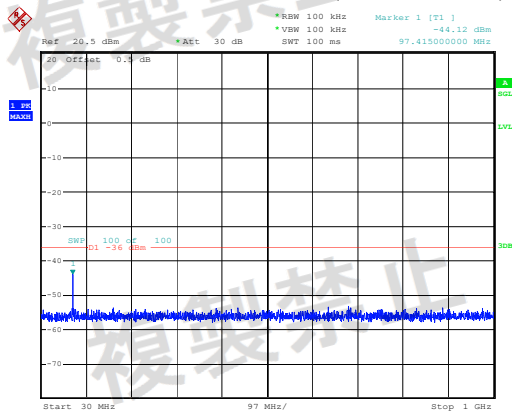
Chain 0&1, 802.11n40

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start(MHz)	Stop(MHz)					
Low	Band I (100kHz)	30	1000	877.78	-53.37	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2385.613	-45.16	0.030	2.50	Pass
	Band III (1MHz)	2387	2400	2400	-24.02	3.963	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2490.312	-45.32	0.029	25	Pass
	Band V (1MHz)	2496.5	12500	11219.552	-44.74	0.034	2.50	Pass

Channel	Test Band (RBW)	Start(MHz)	Stop(MHz)	Max.Emission Located(MHz)	Result (dBm/RBW)	Result (nW/RBW)	Limit (nW/RBW)	Verdict
Middle	Band I (100kHz)	30	1000	563.985	-53.08	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	1921.6615	-45.11	0.031	2.50	Pass
	Band III (1MHz)	2387	2400	2399.935	-44.61	0.035	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.97	-43.75	0.042	25	Pass
	Band V (1MHz)	2496.5	12500	10459.286	-45.75	0.027	2.50	Pass
High	Band I (100kHz)	30	1000	939.86	-53.17	0.005	0.25	Pass
	Band II (1MHz)	1000	2387	2387	-47.25	0.019	2.50	Pass
	Band III (1MHz)	2387	2400	2396.9515	-46.59	0.022	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5325	-22.23	5.984	25	Pass
	Band V (1MHz)	2496.5	12500	2496.5	-43.54	0.044	2.50	Pass

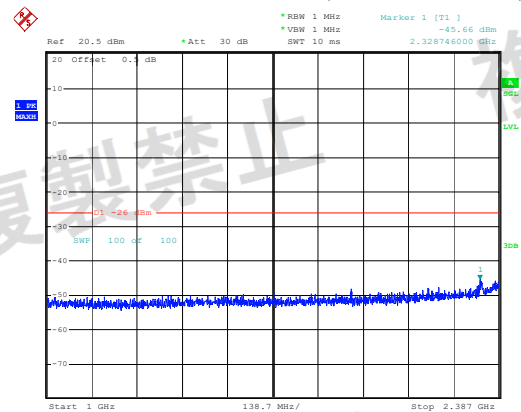
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802.11b, Low Channel(30MHz~1GHz)



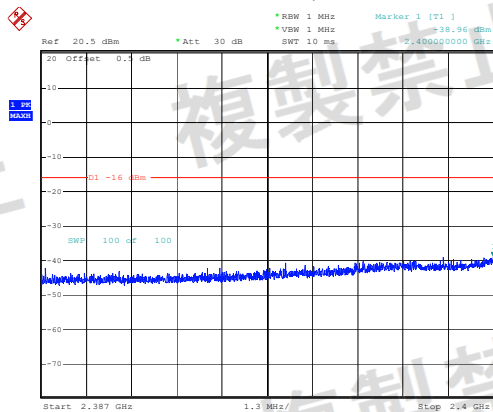
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802.11b, Low Channel(1GHz~2.387GHz)



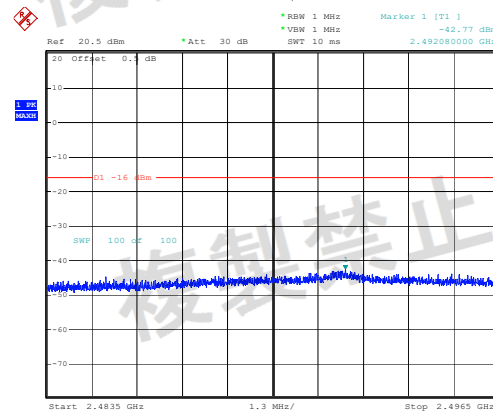
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802.11b, Low Channel(2.387GHz~2.4GHz)



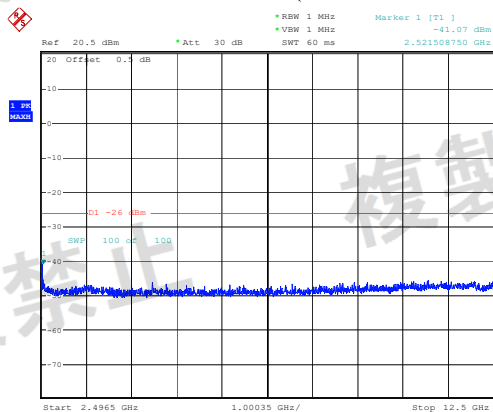
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802.11b, Low Channel(2.4835GHz~2.4965GHz)



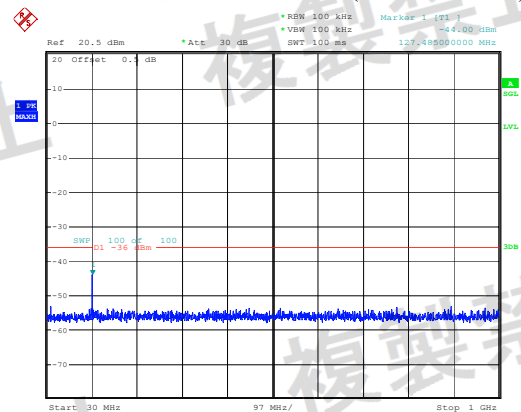
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802.11b, Low Channel(2.4965GHz~12.5GHz)



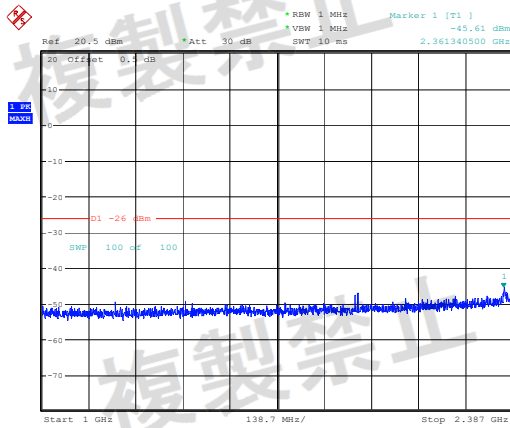
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802.11b, Middle Channel(30MHz~1GHz)



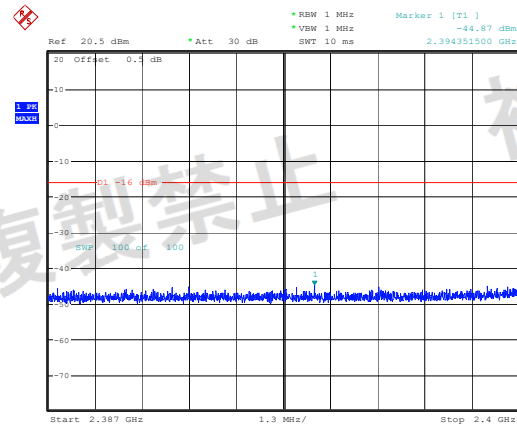
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802.11b, Middle Channel(1GHz~2.387GHz)



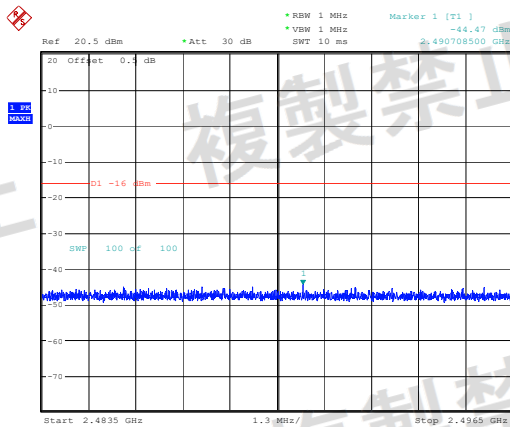
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802.11b, Middle Channel(2.387GHz~2.4GHz)



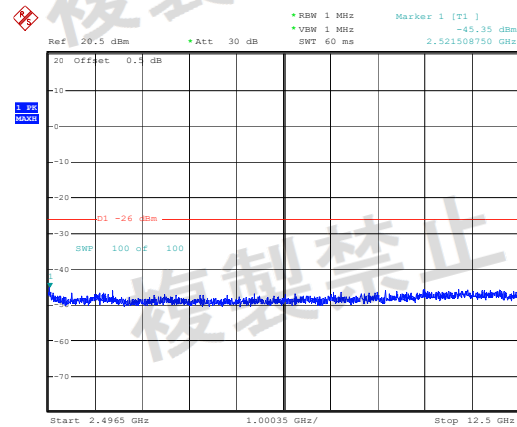
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802.11b, Middle Channel(2.4835GHz~2.4965GHz)



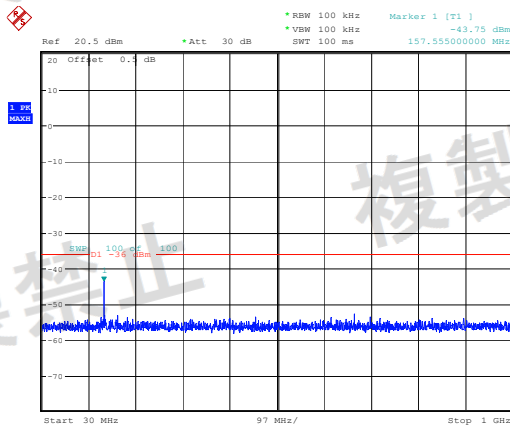
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802.11b, Middle Channel(2.4965GHz~12.5GHz)



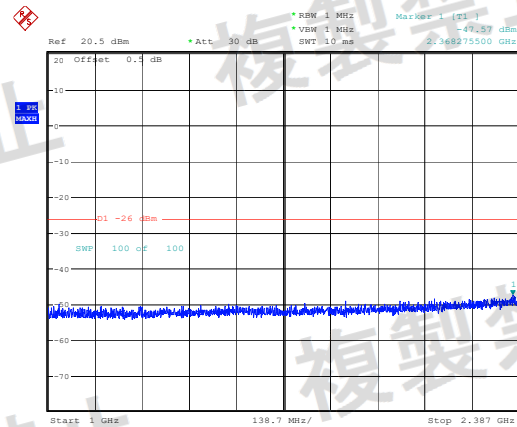
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802.11b, High Channel(30MHz~1GHz)



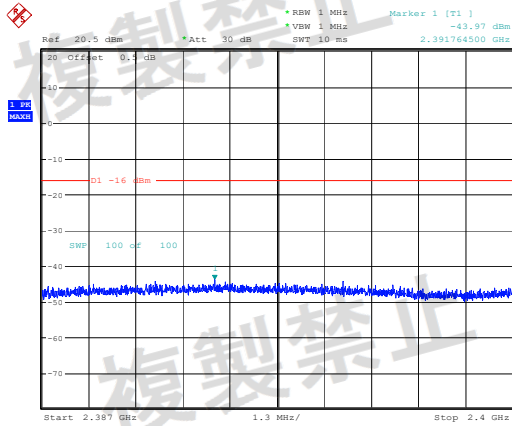
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802.11b, High Channel(1GHz~2.387GHz)



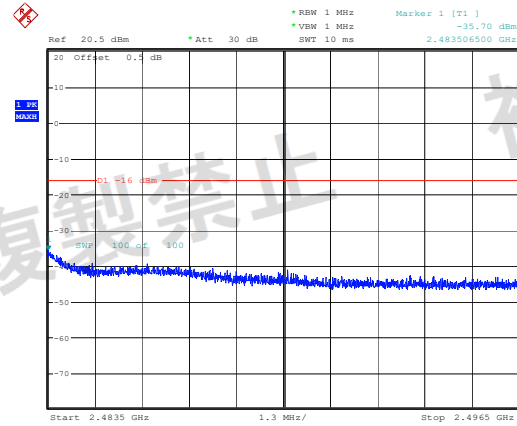
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802.11b, High Channel(2.387GHz~2.4GHz)



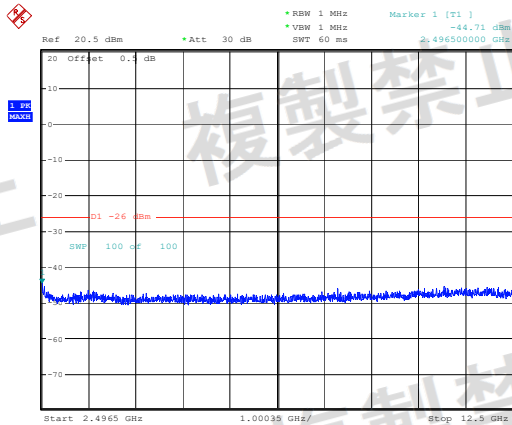
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802.11b, High Channel(2.4835GHz~2.4965GHz)



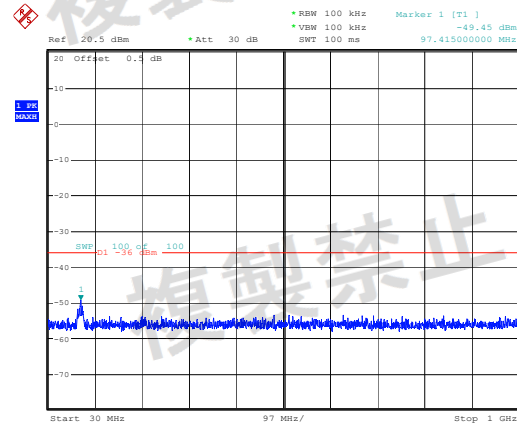
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802.11b, High Channel(2.4965GHz~12.5GHz)



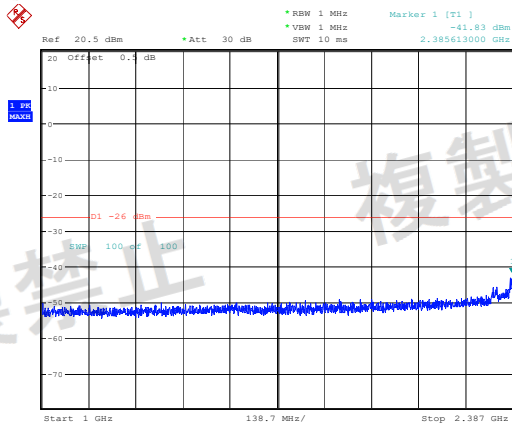
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802.11g, Low Channel(30MHz~1GHz)



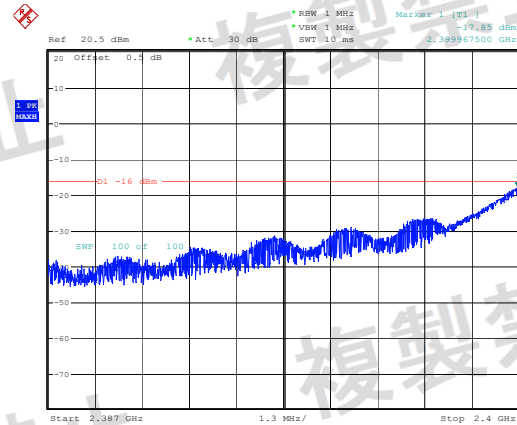
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802.11g, Low Channel(1GHz~2.387GHz)



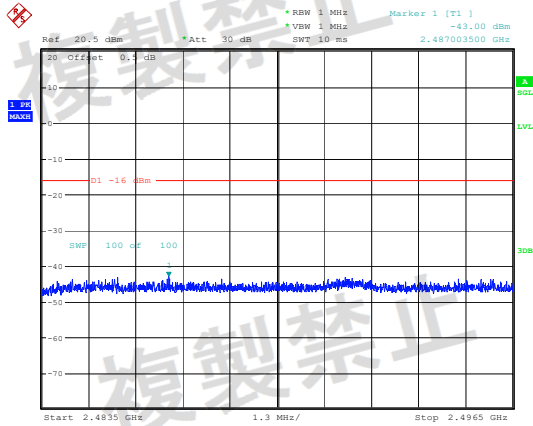
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802.11g, Low Channel(2.387GHz~2.4GHz)



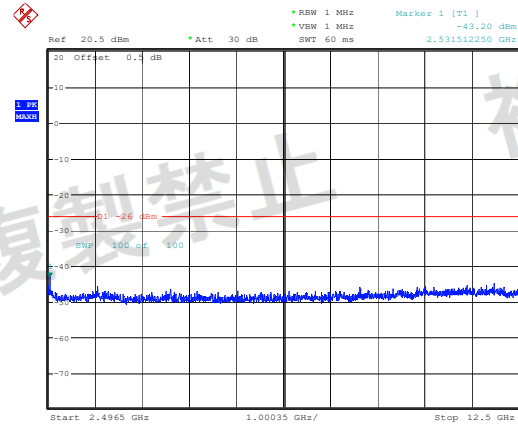
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802.11g, Low Channel(2.4835GHz~2.4965GHz)



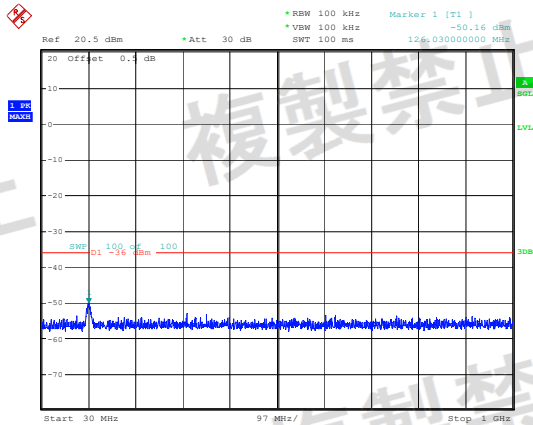
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802.11g, Low Channel(2.4965GHz~12.5GHz)



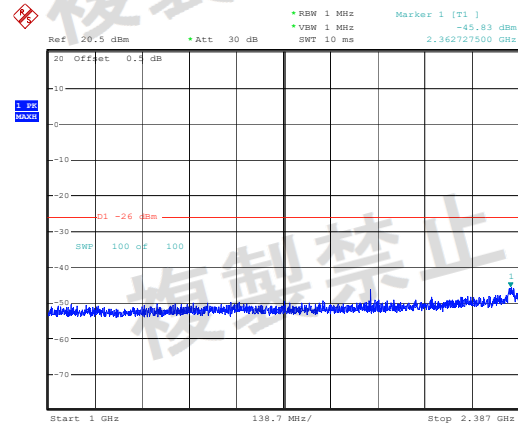
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802.11g, Middle Channel(30MHz~1GHz)



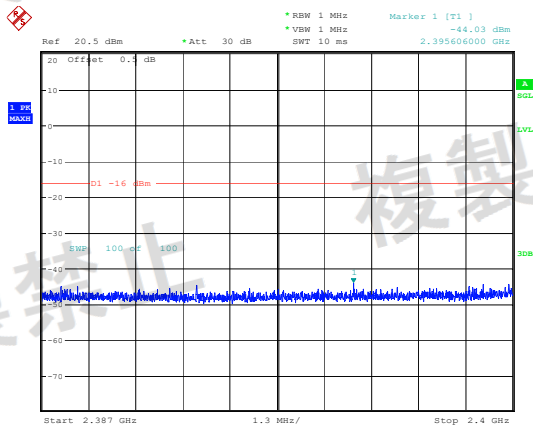
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Date: 3.NOV.2025 10:53:37

802.11g, Middle Channel(1GHz~2.387GHz)



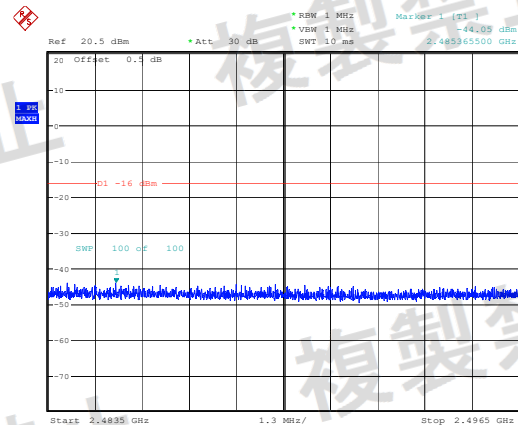
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:53:52

802.11g, Middle Channel(2.387GHz~2.4GHz)



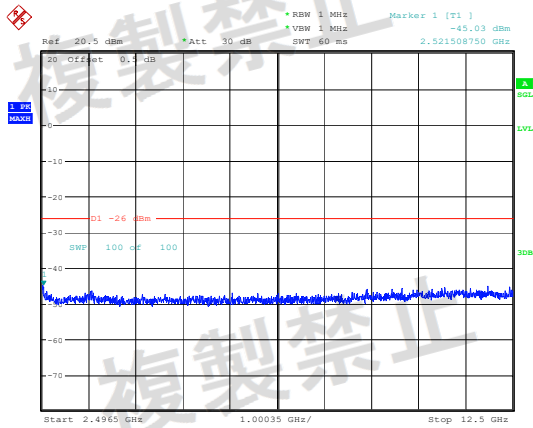
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:54:04

802.11g, Middle Channel(2.4835GHz~2.4965GHz)



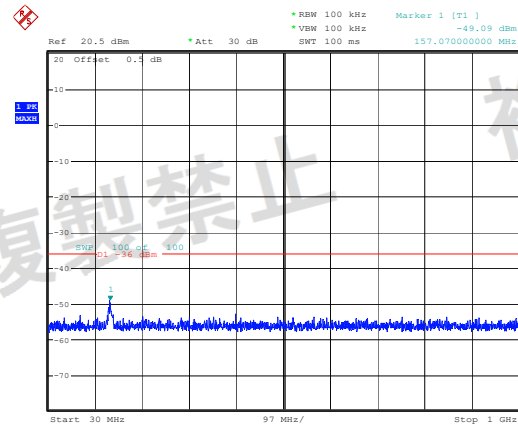
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 10:54:16

802.11g, Middle Channel(2.4965GHz~12.5GHz)



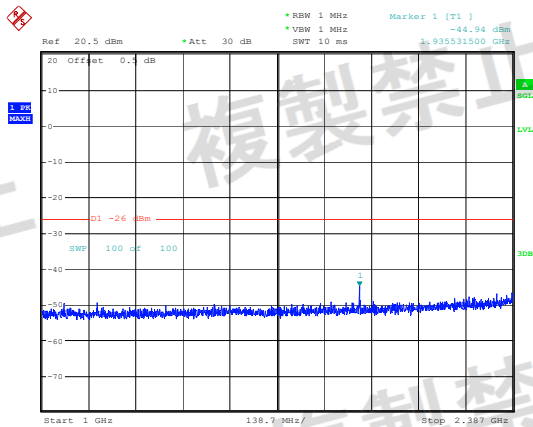
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
 Date: 3.NOV.2025 10:54:45

802.11g, High Channel(30MHz~1GHz)



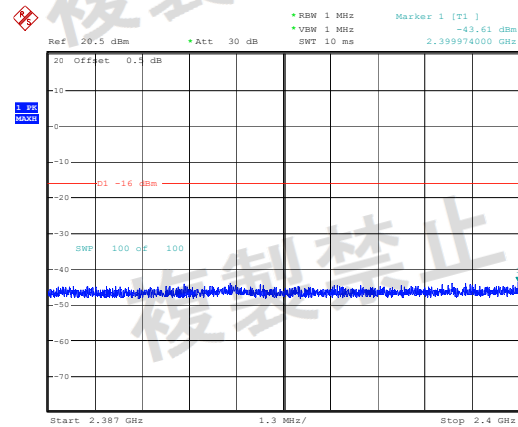
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
 Date: 3.NOV.2025 10:55:51

802.11g, High Channel(1GHz~2.387GHz)



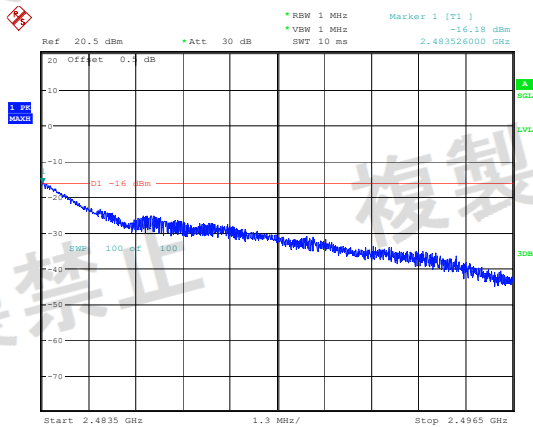
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
 Date: 3.NOV.2025 10:56:04

802.11g, High Channel(2.387GHz~2.4GHz)



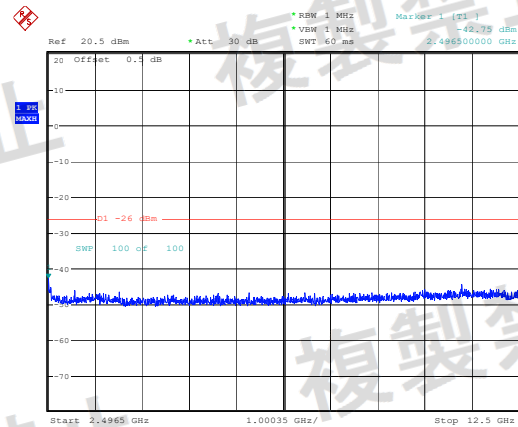
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
 Date: 3.NOV.2025 10:56:17

802.11g, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
 Date: 3.NOV.2025 10:56:28

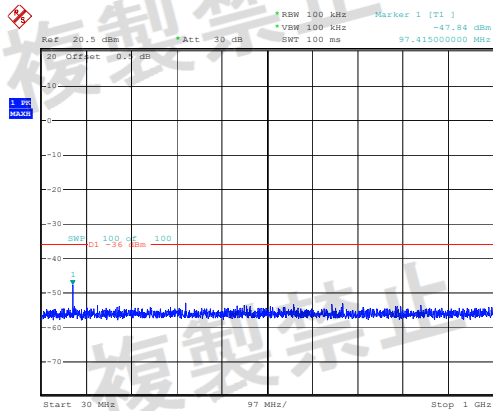
802.11g, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
 Date: 3.NOV.2025 10:56:59

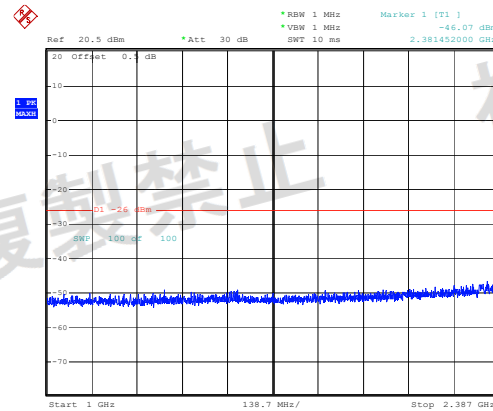
Chain 1, Test Condition: NV

802.11b, Low Channel(30MHz~1GHz)



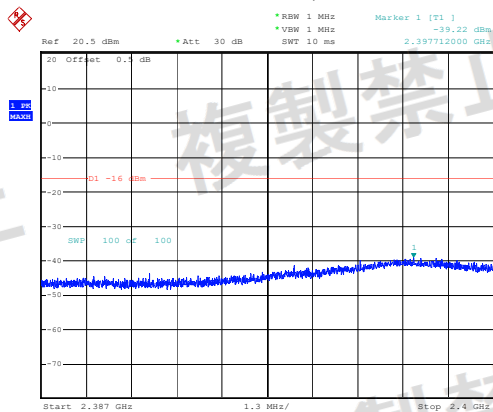
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 14:35:14

802.11b, Low Channel(1GHz~2.387GHz)



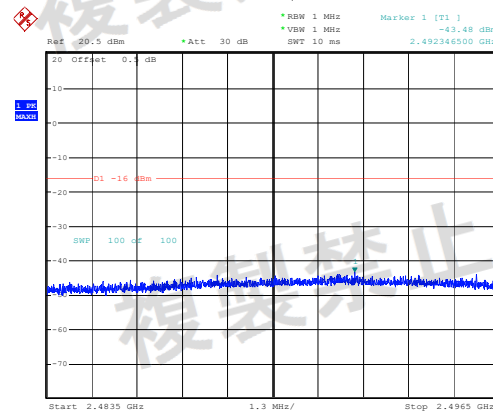
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 14:35:28

802.11b, Low Channel(2.387GHz~2.4GHz)



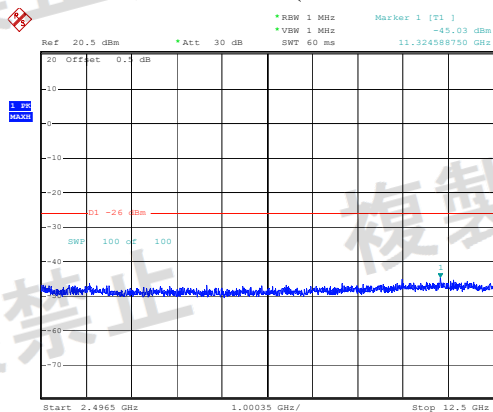
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 14:35:40

802.11b, Low Channel(2.4835GHz~2.4965GHz)



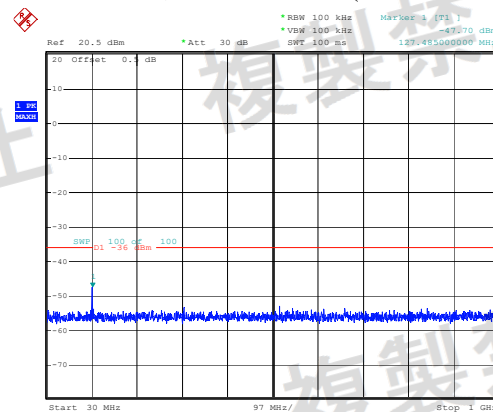
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 14:35:49

802.11b, Low Channel(2.4965GHz~12.5GHz)



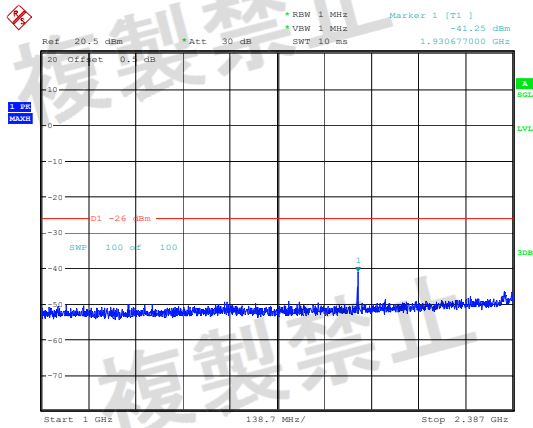
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 14:36:26

802.11b, Middle Channel(30MHz~1GHz)



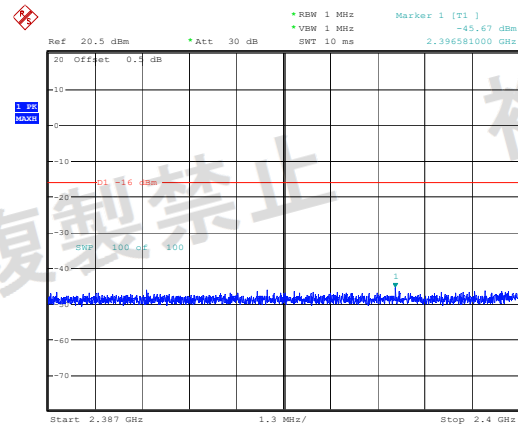
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 14:36:57

802.11b, Middle Channel(1GHz~2.387GHz)



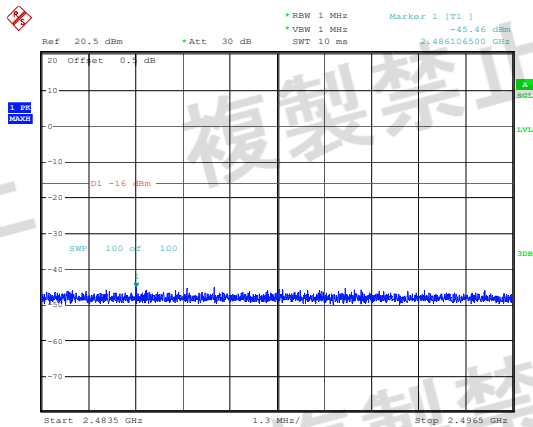
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:37:10

802.11b, Middle Channel(2.387GHz~2.4GHz)



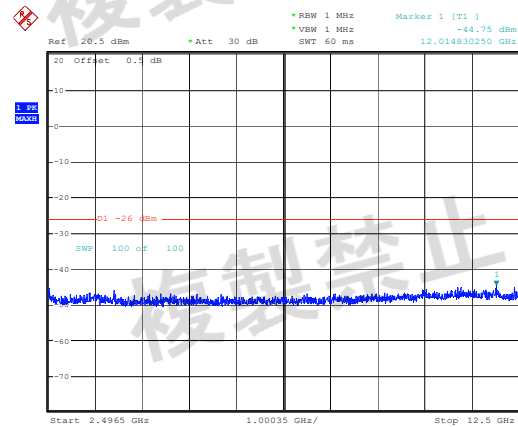
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:37:22

802.11b, Middle Channel(2.4835GHz~2.4965GHz)



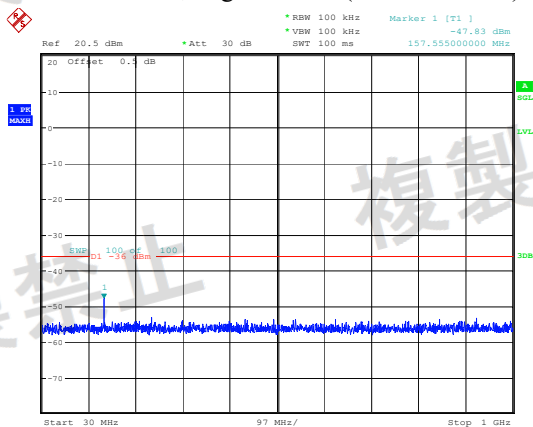
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:37:32

802.11b, Middle Channel(2.4965GHz~12.5GHz)



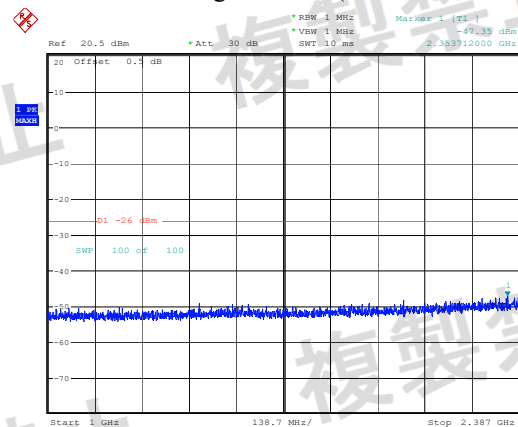
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:38:01

802.11b, High Channel(30MHz~1GHz)



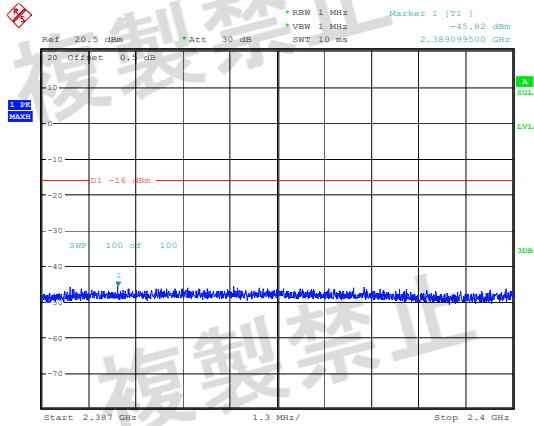
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:38:40

802.11b, High Channel(1GHz~2.387GHz)



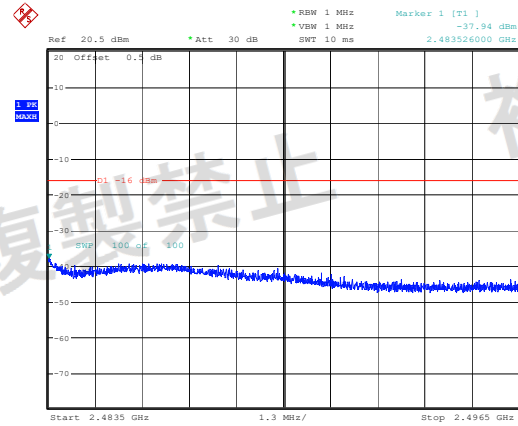
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:38:56

802.11b, High Channel(2.387GHz~2.4GHz)



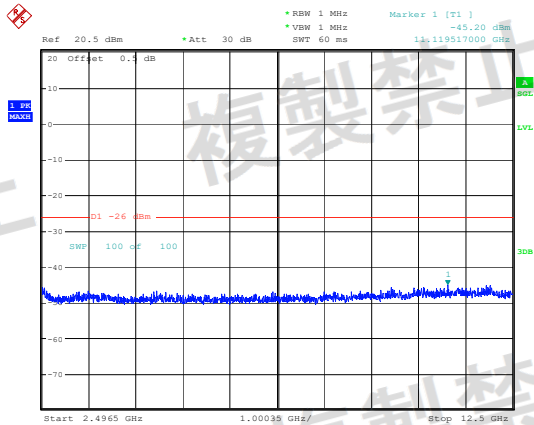
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:39:11

802.11b, High Channel(2.4835GHz~2.4965GHz)



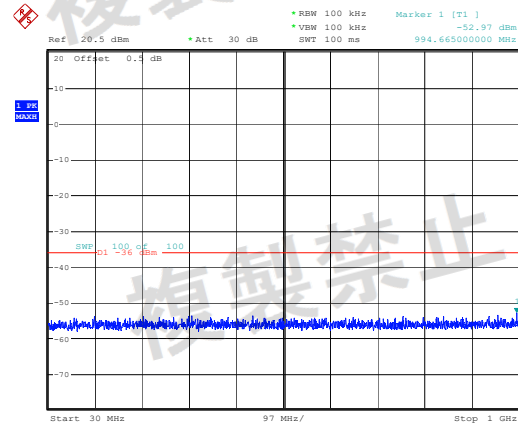
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:39:22

802.11b, High Channel(2.4965GHz~12.5GHz)



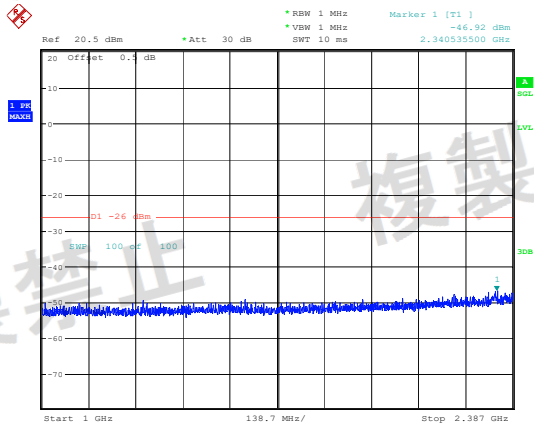
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 14:39:51

802.11g, Low Channel(30MHz~1GHz)



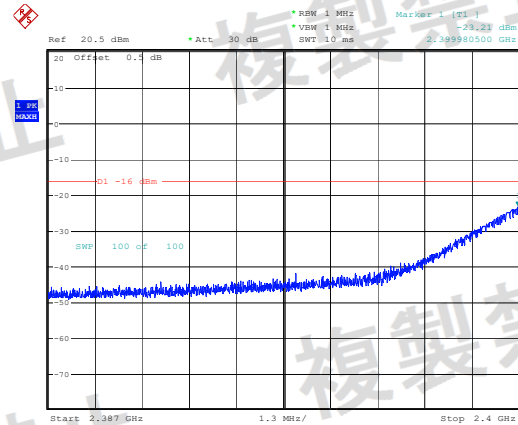
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:28:29

802.11g, Low Channel(1GHz~2.387GHz)



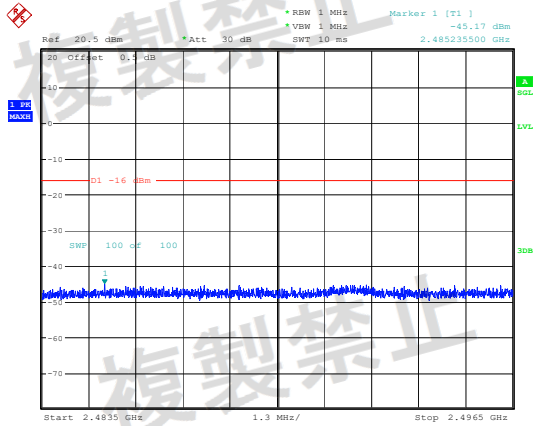
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:28:43

802.11g, Low Channel(2.387GHz~2.4GHz)



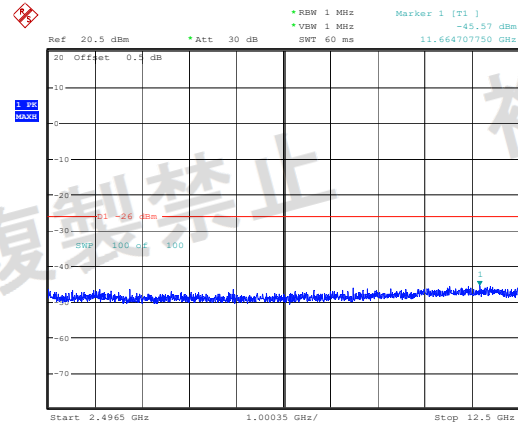
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:28:58

802.11g, Low Channel(2.4835GHz~2.4965GHz)



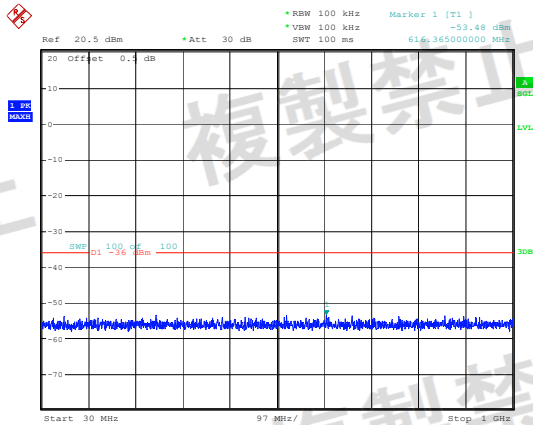
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:29:10

802.11g, Low Channel(2.4965GHz~12.5GHz)



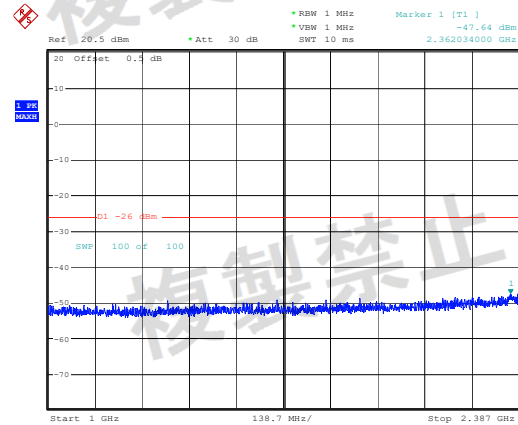
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:29:40

802.11g, Middle Channel(30MHz~1GHz)



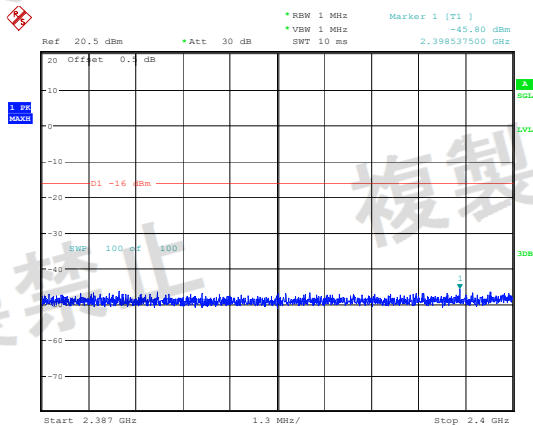
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:30:27

802.11g, Middle Channel(1GHz~2.387GHz)



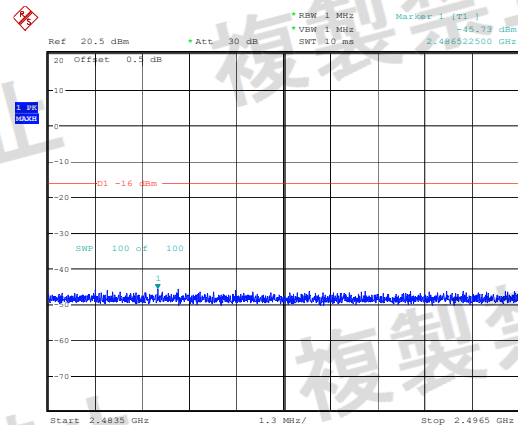
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:30:40

802.11g, Middle Channel(2.387GHz~2.4GHz)



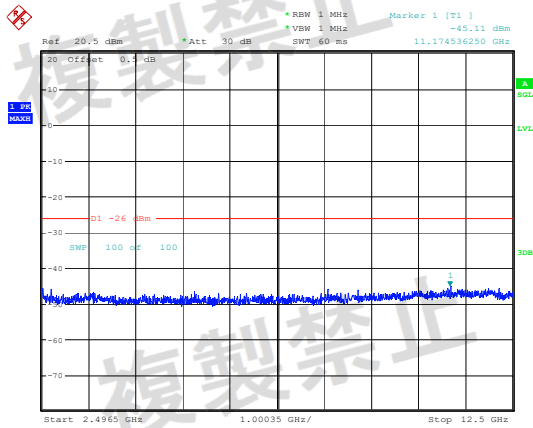
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:30:52

802.11g, Middle Channel(2.4835GHz~2.4965GHz)



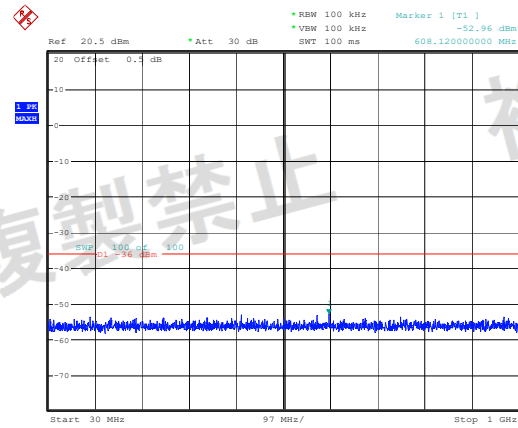
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:31:02

802.11g, Middle Channel(2.4965GHz~12.5GHz)



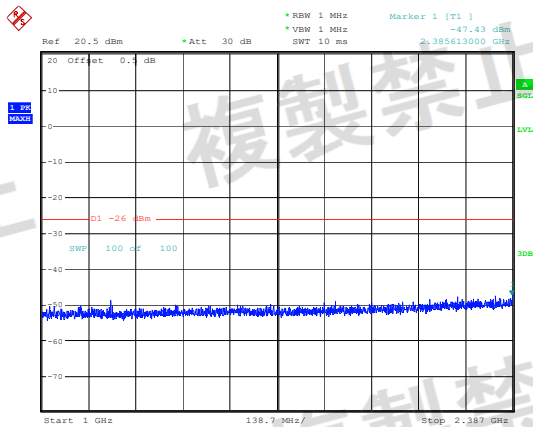
ProjectNo.:2507Y32305E-RF Tester:Apollon Luo
Date: 3.NOV.2025 15:31:33

802.11g, High Channel(30MHz~1GHz)



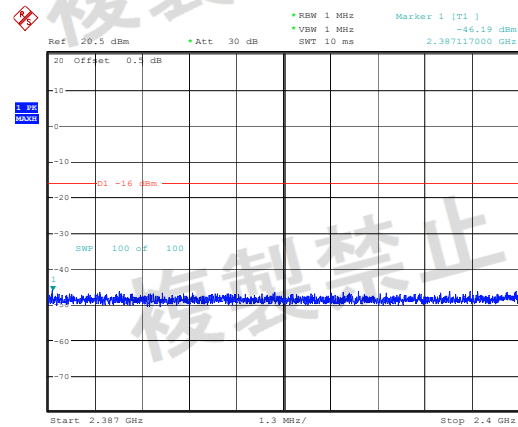
ProjectNo.:2507Y32305E-RF Tester:Apollon Luo
Date: 3.NOV.2025 15:32:02

802.11g, High Channel(1GHz~2.387GHz)



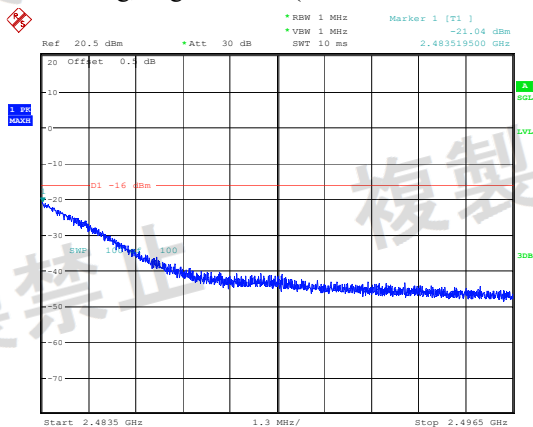
ProjectNo.:2507Y32305E-RF Tester:Apollon Luo
Date: 3.NOV.2025 15:32:16

802.11g, High Channel(2.387GHz~2.4GHz)



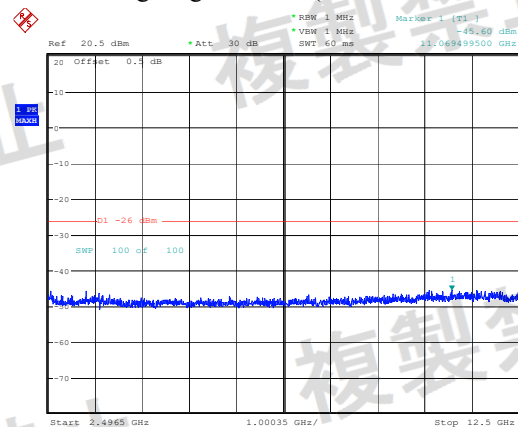
ProjectNo.:2507Y32305E-RF Tester:Apollon Luo
Date: 3.NOV.2025 15:32:28

802.11g, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollon Luo
Date: 3.NOV.2025 15:32:38

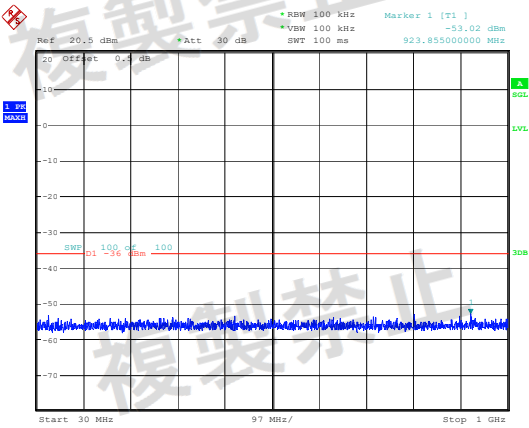
802.11g, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollon Luo
Date: 3.NOV.2025 15:33:07

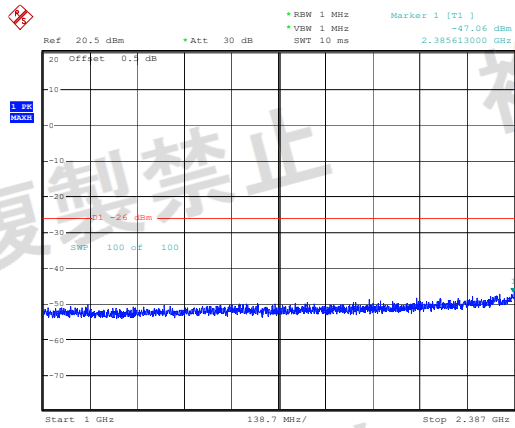
Chain 0&1, Test Condition: NV

802.11n20, Low Channel(30MHz~1GHz)



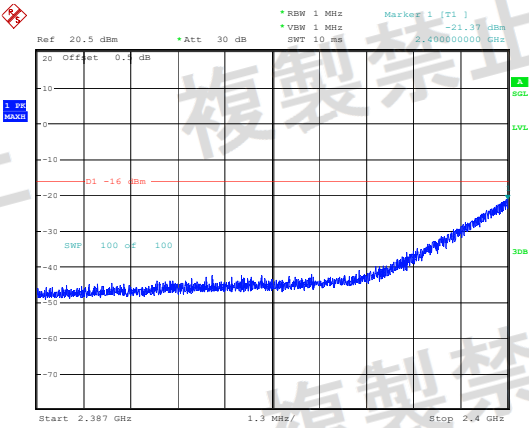
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:34:00

802.11n20, Low Channel(1GHz~2.387GHz)



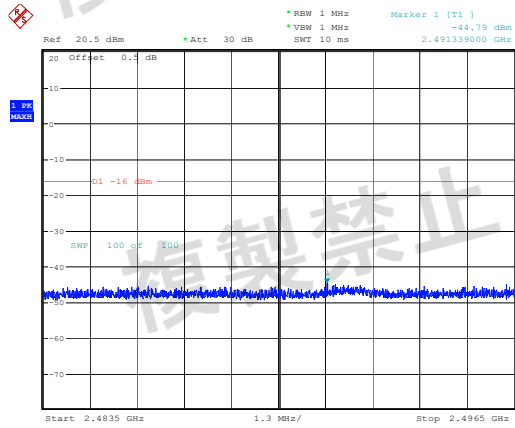
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:34:13

802.11n20, Low Channel(2.387GHz~2.4GHz)



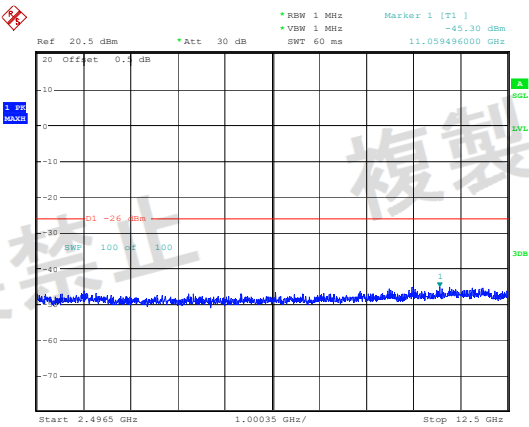
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:34:25

802.11n20, Low Channel(2.4835GHz~2.4965GHz)



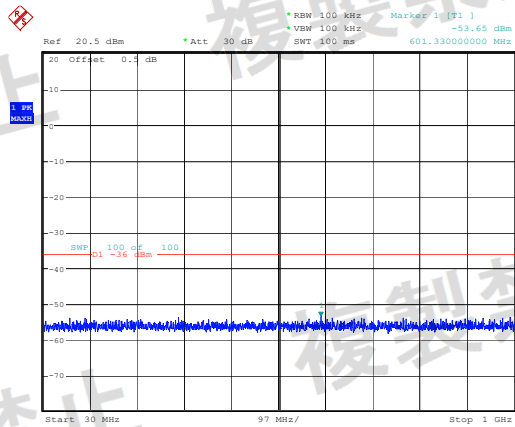
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:34:36

802.11n20, Low Channel(2.4965GHz~12.5GHz)



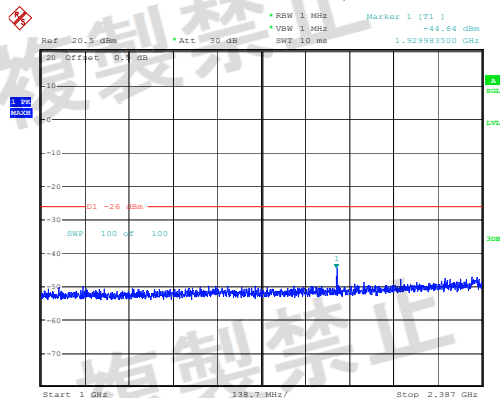
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:35:09

802.11n20, Middle Channel(30MHz~1GHz)



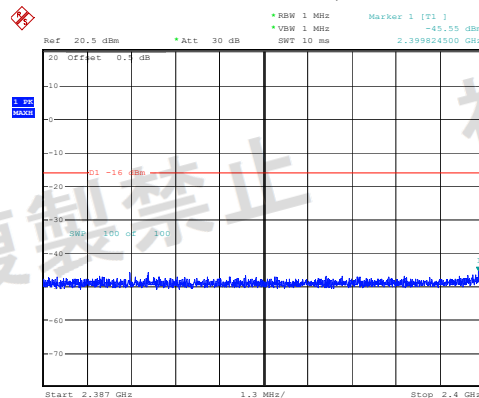
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:35:42

802.11n20, Middle Channel(1GHz~2.387GHz)



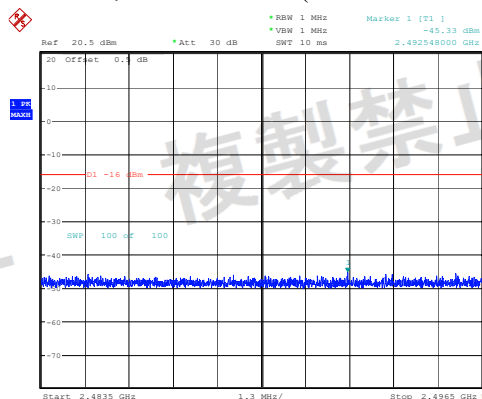
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 15:35:55

802.11n20, Middle Channel(2.387GHz~2.4GHz)



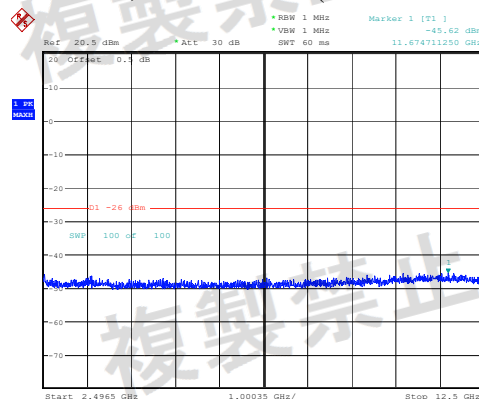
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Date: 3.NOV.2025 15:36:06

802.11n20, Middle Channel(2.4835GHz~2.4965GHz)



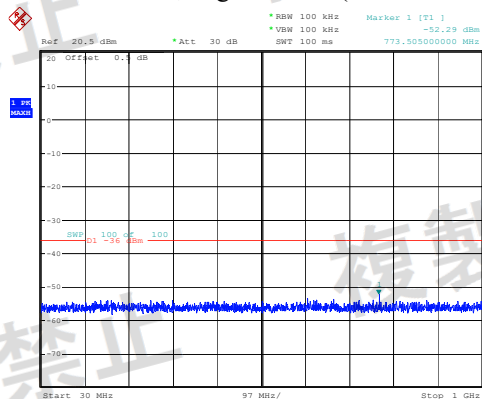
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 15:36:22

802.11n20, Middle Channel(2.4965GHz~12.5GHz)



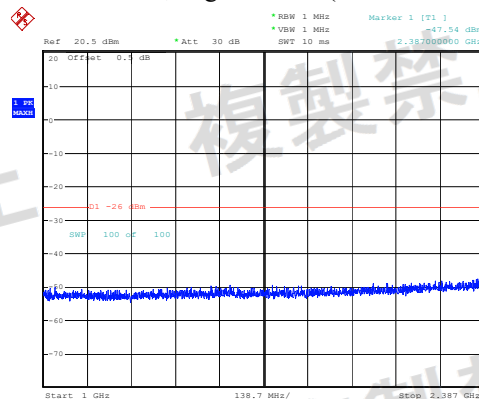
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 15:36:55

802.11n20, High Channel(30MHz~1GHz)



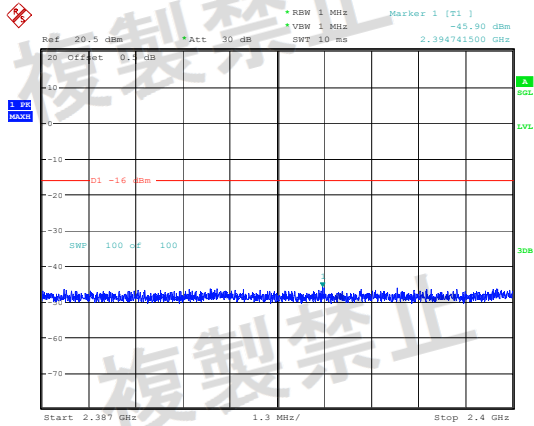
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 15:37:30

802.11n20, High Channel(1GHz~2.387GHz)



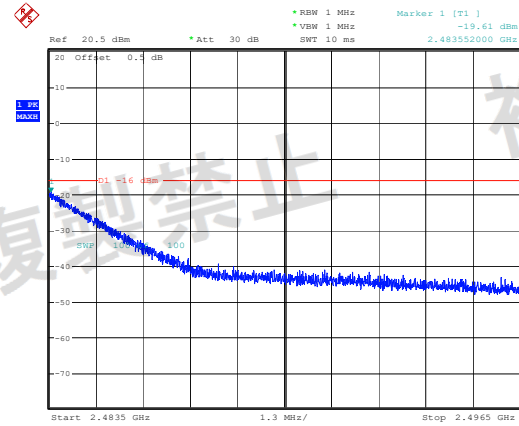
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 15:37:44

802.11n20, High Channel(2.387GHz~2.4GHz)



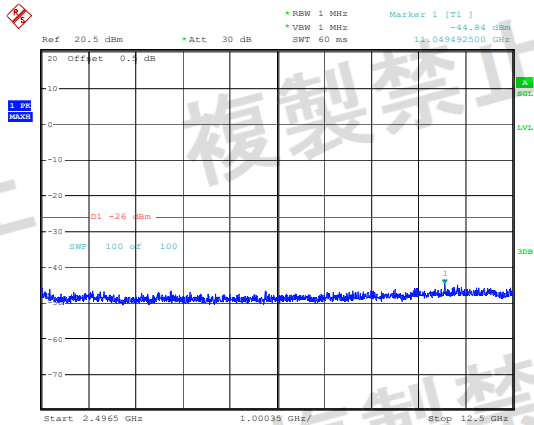
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:37:55

802.11n20, High Channel(2.4835GHz~2.4965GHz)



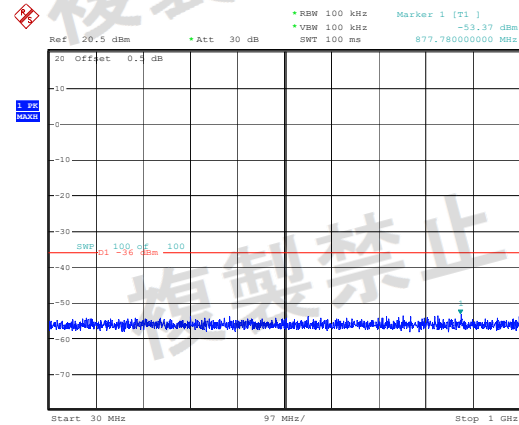
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:38:05

802.11n20, High Channel(2.4965GHz~12.5GHz)



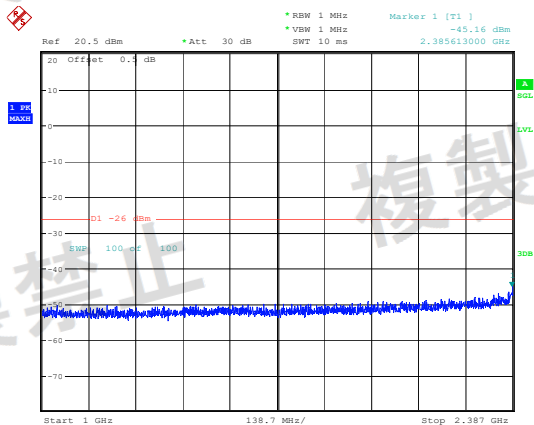
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:38:35

802.11n40, Low Channel(30MHz~1GHz)



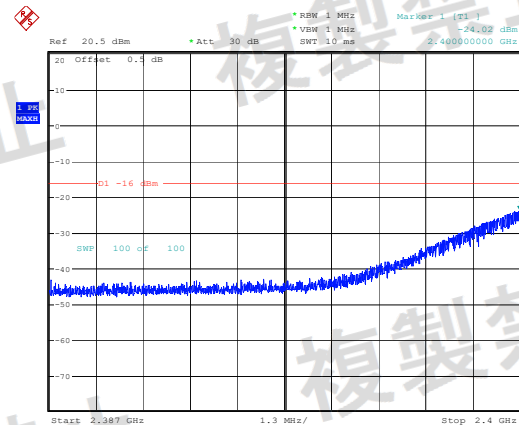
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:39:12

802.11n40, Low Channel(1GHz~2.387GHz)



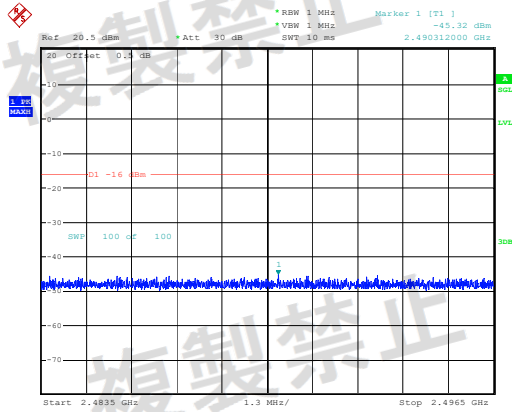
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:39:30

802.11n40, Low Channel(2.387GHz~2.4GHz)



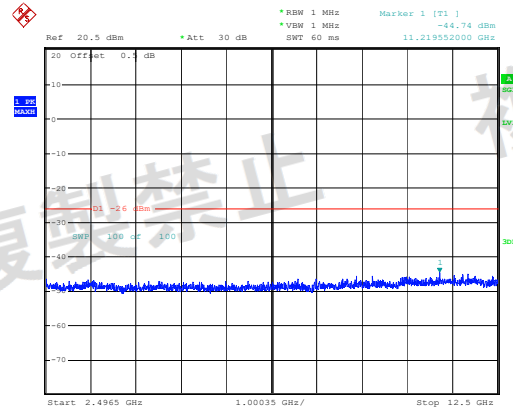
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:39:41

802.11n40, Low Channel(2.4835GHz~2.4965GHz)



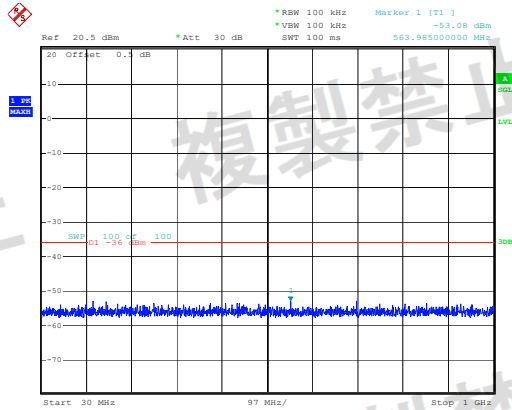
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:39:52

802.11n40, Low Channel(2.4965GHz~12.5GHz)



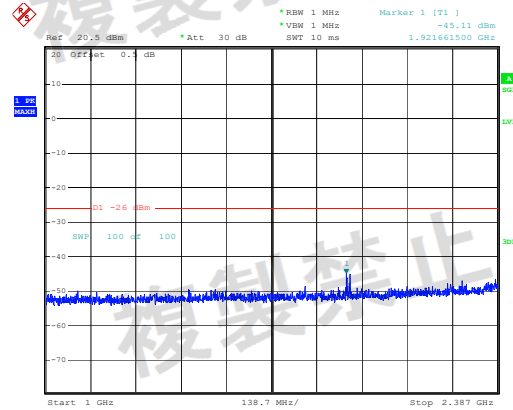
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:40:20

802.11n40, Middle Channel(30MHz~1GHz)



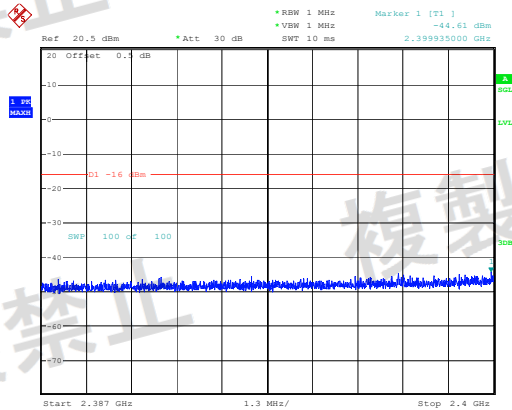
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:41:28

802.11n40, Middle Channel(1GHz~2.387GHz)



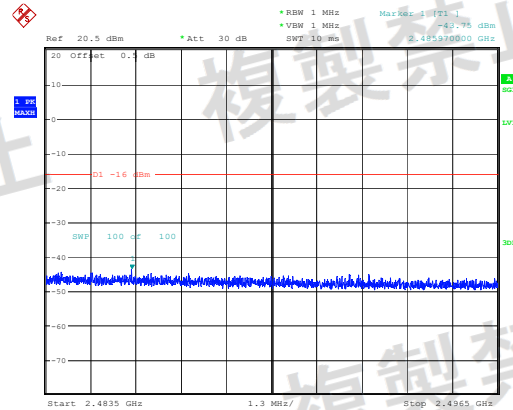
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:41:41

802.11n40, Middle Channel(2.387GHz~2.4GHz)



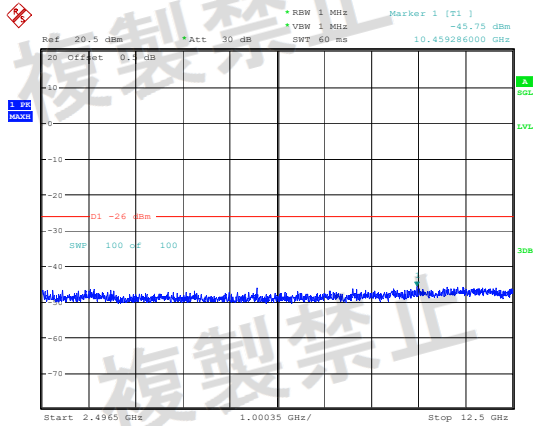
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:41:52

802.11n40, Middle Channel(2.4835GHz~2.4965GHz)



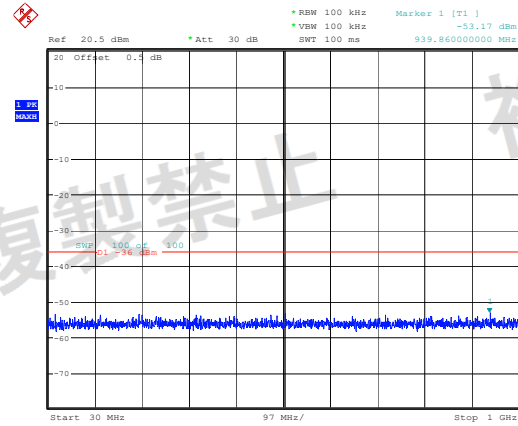
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:42:03

802.11n40, Middle Channel(2.4965GHz~12.5GHz)



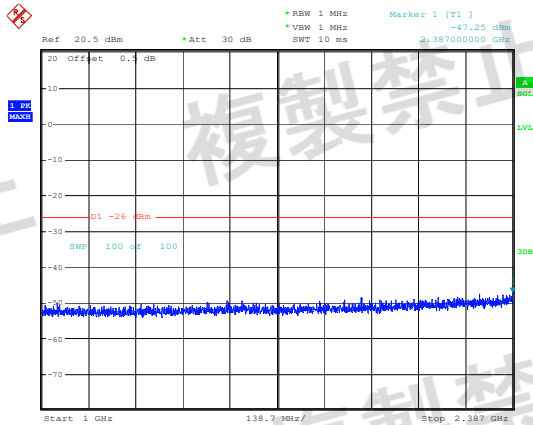
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:42:32

802.11n40, High Channel(30MHz~1GHz)



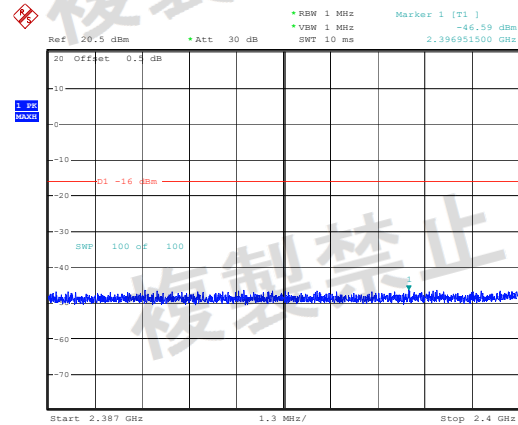
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:43:11

802.11n40, High Channel(1GHz~2.387GHz)



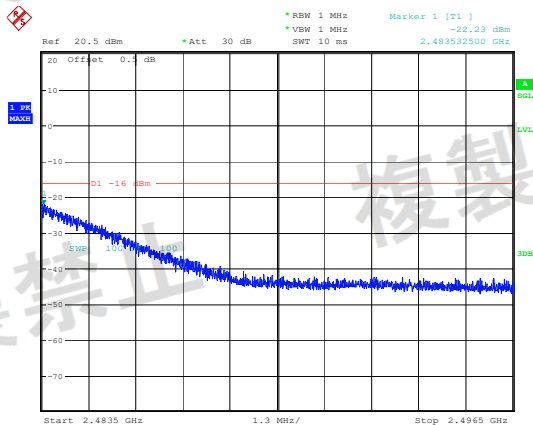
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:43:24

802.11n40, High Channel(2.387GHz~2.4GHz)



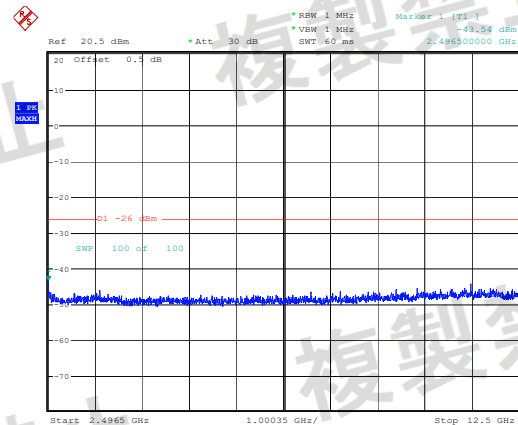
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:43:35

802.11n40, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:43:47

802.11n40, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 15:44:17

ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE

Limit

- $\leq 10 \text{ mW/MHz}$ (OFDM/DSSS for bandwidth $\leq 26\text{MHz}$)
- $\leq 5 \text{ mW/MHz}$ (OFDM for bandwidth $\leq 40\text{MHz}$)

The Output Power Tolerance must be within +20%.

E.i.r.p:

- $\leq 12.14 \text{ dBm/MHz}$ (OFDM/DSSS for bandwidth $\leq 26\text{MHz}$)
- $\leq 9.13 \text{ dBm/MHz}$ (OFDM for bandwidth $\leq 40\text{MHz}$)

Test Procedure

For FHSS UUT:

Connect the UUT to the spectrum analyzer and use the following settings:

- Frequency to measure (2402 MHz, 2441MHz, and 2480MHz)
- RBW : 1MHz
- VBW : 1MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Average (see note).
- Trace Mode: Max Hold.

For OFDM, DSSS UUT:

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz.
- VBW: 1 MHz.
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak.
- Trace Mode: Max Hold.

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

Make the following changes to the settings of the spectrum analyzer:

- Measurement Mode: Time Domain Power
- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: Zero Span.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Sweep Mode: Single.
- Detector: Sample.
- Trace Mode: Clear Write.

For other UUT:

Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: The centre frequency of the channel under test.
- Span: 5 MHz.
- RBW: 3 MHz.
- VBW: 10 MHz.
- Detector: Peak
- Trace Mode: Max Hold.

NOTE: The detector mode "Average" is often referred to as "RMS Average" or "Sample" but do not use Video Average.

When the trace is complete, use the time domain power function of the analyzer measure the mean power average across one pulse on period, this level is recorded as D.

D shall be recorded in the test report.

The maximum PD, which is e.i.r.p. PSD (spectral density power) or power, is calculated from the above measured value D, and the applicable antenna assembly gain "G" in dBi, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used.

$$PD = D + G$$

Test Data

Test Mode:	Transmitting	Test Date:	2025-11-04
Temperature:	25.2℃	ATM Pressure:	100.1kPa
Humidity:	47%	Test Engineer:	Apollo Luo

Test Result: Compliant

Declared Power:

Mode	Antenna gain (dBi)		Declared power (mW/MHz)	
	Chain 0	Chain 1	Chain 0	Chain 1
802.11 b	3.4	3.4	3.4	1.9
802.11 g			2.3	1.2
802.11 n20			1.0	
802.11 n40			0.4	

Output power**Chain 0:**

Test Condition	Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP (dBm/MHz)	
				Result	Limit	Result	Limit	Result	Limit
NV	802.11 b	Low	5.29	3.381	≤ 10	-0.56	+20	8.69	≤ 12.14
		Middle	5.16	3.281	≤ 10	-3.50		8.56	≤ 12.14
		High	5.03	3.184	≤ 10	-6.35		8.43	≤ 12.14
	802.11 g	Low	3.61	2.296	≤ 10	-0.17	+20	7.01	≤ 12.14
		Middle	2.91	1.954	≤ 10	-15.04		6.31	≤ 12.14
		High	2.67	1.849	≤ 10	-19.61		6.07	≤ 12.14

Chain 1:

Test Condition	Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP (dBm/MHz)	
				Result	Limit	Result	Limit	Result	Limit
NV	802.11 b	Low	2.29	1.694	≤ 10	-10.84	+20	5.69	≤ 12.14
		Middle	2.59	1.816	≤ 10	-4.42		5.99	≤ 12.14
		High	2.61	1.824	≤ 10	-4.00		6.01	≤ 12.14
	802.11 g	Low	0.08	1.019	≤ 10	-15.08	+20	3.48	≤ 12.14
		Middle	0.52	1.127	≤ 10	-6.08		3.92	≤ 12.14
		High	0.44	1.107	≤ 10	-7.75		3.84	≤ 12.14

Chain 0&1:

Test Condition	Mode	Channel	Conducted power (dBm/MHz)		Antenna output power (mW/MHz)		Antenna output tolerance (%)		EIRP (dBm/MHz)	
			Chain 0	Chain 1	Result	Limit	Result	Limit	Result	Limit
NV	802.11 n20	Low	-2.81	-4.02	0.920	≤ 10	-8.00	+20	3.04	≤ 12.14
		Middle	-3.02	-4.68	0.839	≤ 10	-16.10		2.64	≤ 12.14
		High	-3.02	-4.79	0.831	≤ 10	-16.90		2.6	≤ 12.14
	802.11 n40	Low	-6.11	-8.27	0.394	≤ 5	-1.50	+20	-0.65	≤ 9.13
		Middle	-6.64	-8.56	0.356	≤ 5	-11.00		-1.09	≤ 9.13
		High	-6.97	-8.09	0.356	≤ 5	-11.00		-1.09	≤ 9.13

Note:

Chain 0/ Chain 1: Antenna Output Power(mW/MHz) = $10^{\frac{Conducted\ power\ (dBm/MHz)}{10}}$

Antenna Output Power (Total)= Antenna Output Power(Chain 0)+ Antenna Output Power(Chain 1)

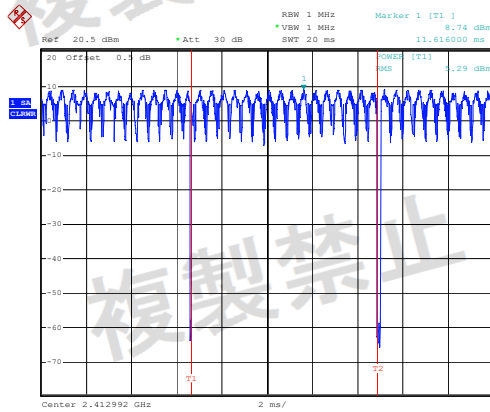
Antenna Output Power Tolerance(%) = (Antenna Output power - Declared Power) / Declared Power*100%.

EIRP(dBm/MHz) = Antenna output power(dBm/MHz) + Antenna gain.

Antenna Power:

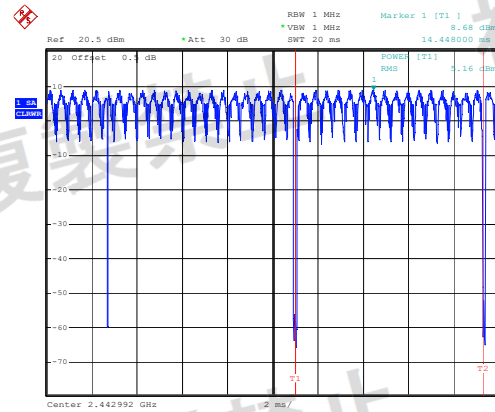
Chain 0, Test Condition: NV

802.11b, Low Channel



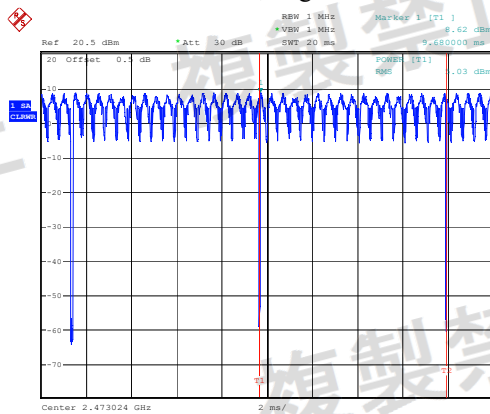
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
 Date: 4.NOV.2025 15:13:35

802.11b, Middle Channel



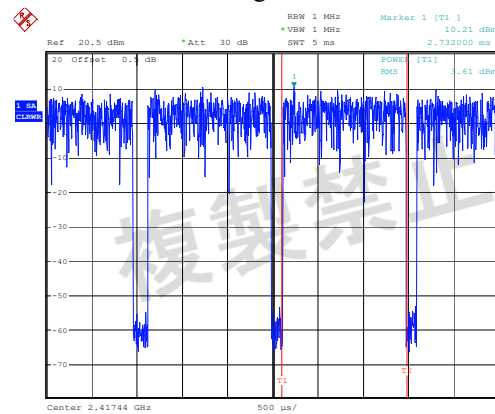
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
 Date: 4.NOV.2025 15:15:05

802.11b, High Channel



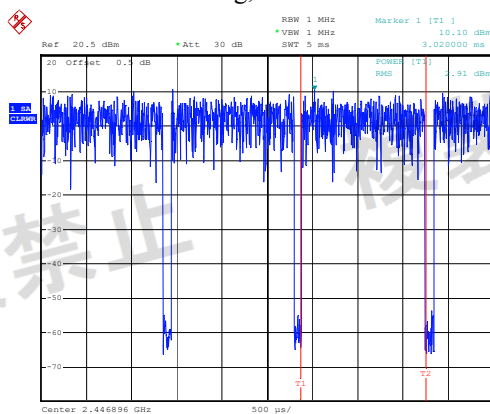
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
 Date: 4.NOV.2025 15:17:35

802.11g, Low Channel



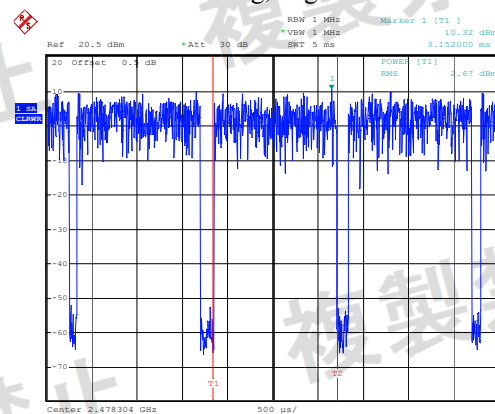
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
 Date: 4.NOV.2025 15:20:10

802.11g, Middle Channel



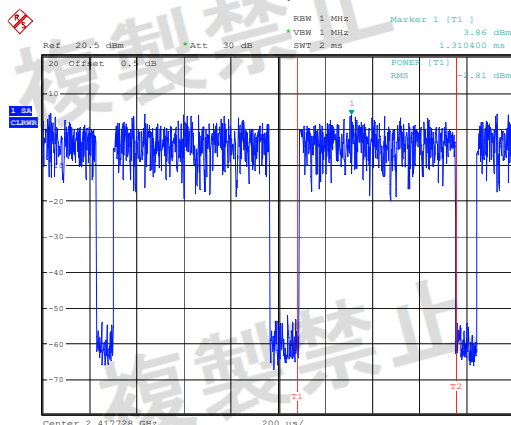
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
 Date: 4.NOV.2025 15:21:35

802.11g, High Channel



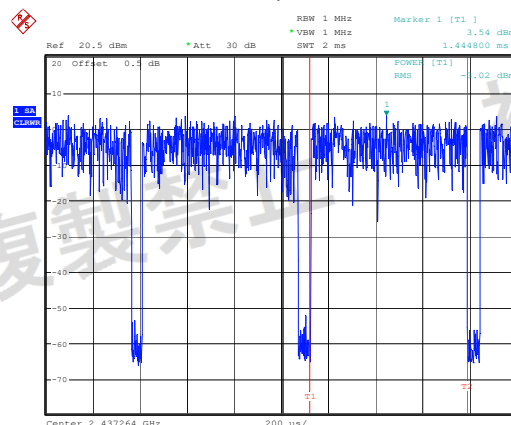
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
 Date: 4.NOV.2025 15:23:03

802.11n20, Low Channel



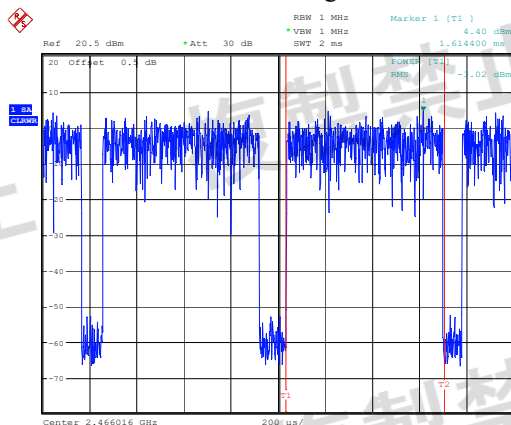
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 4.NOV.2025 15:26:06

802.11n20, Middle Channel



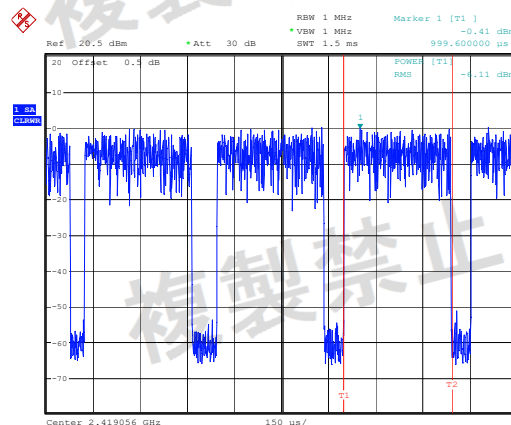
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 4.NOV.2025 15:27:47

802.11n20, High Channel



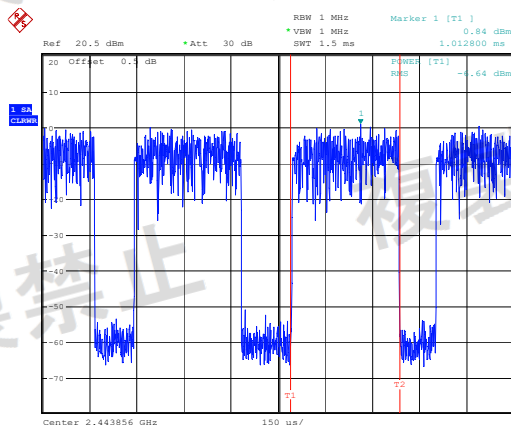
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 4.NOV.2025 15:29:28

802.11n40, Low Channel



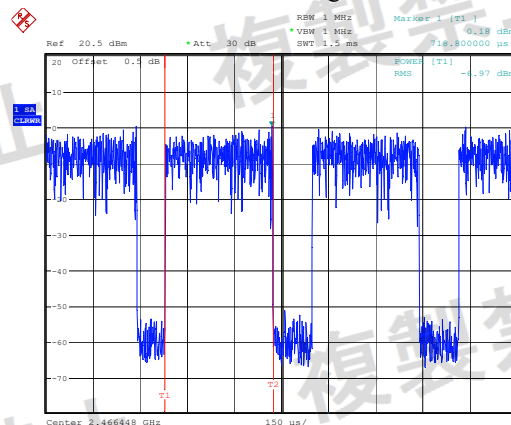
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 4.NOV.2025 15:32:26

802.11n40, Middle Channel



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 4.NOV.2025 15:34:09

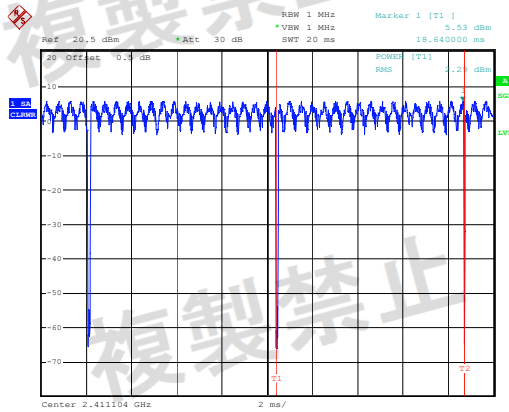
802.11n40, High Channel



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 4.NOV.2025 15:37:01

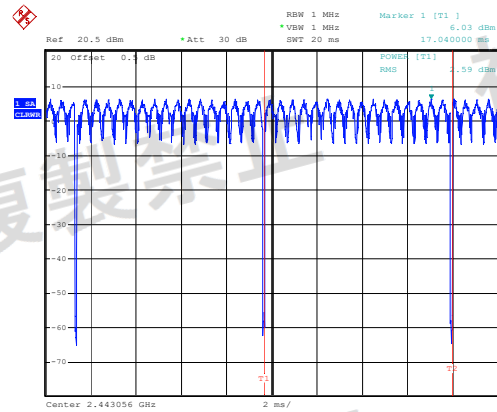
Chain 1, Test Condition: NV

802.11b, Low Channel



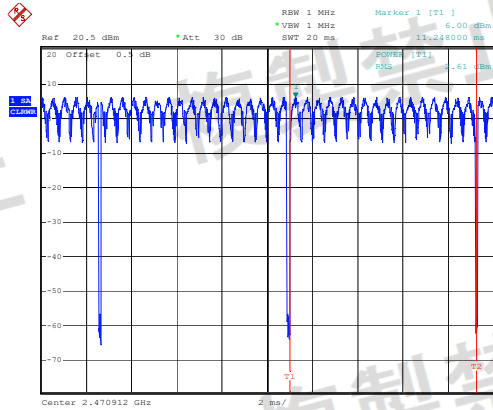
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 14:10:10

802.11b, Middle Channel



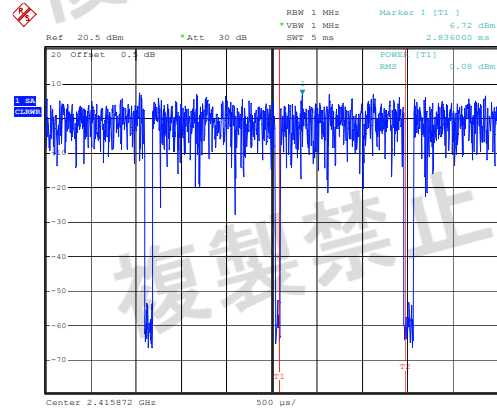
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 14:11:45

802.11b, High Channel



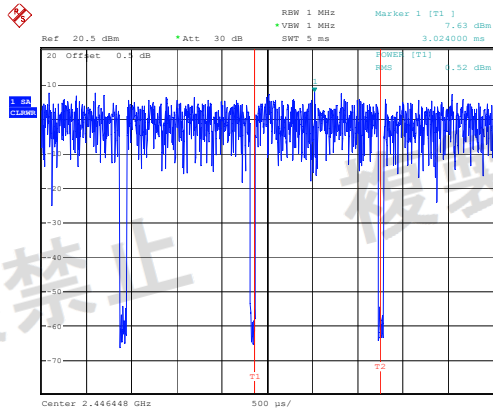
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 14:14:23

802.11g, Low Channel



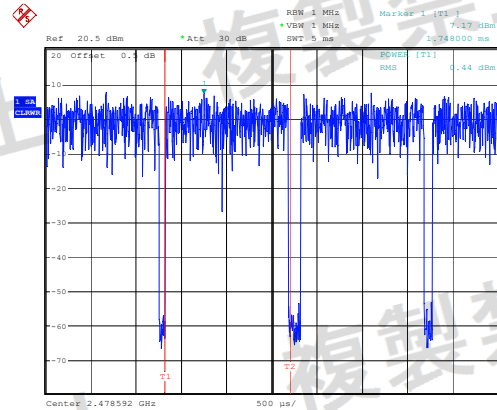
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 14:19:19

802.11g, Middle Channel



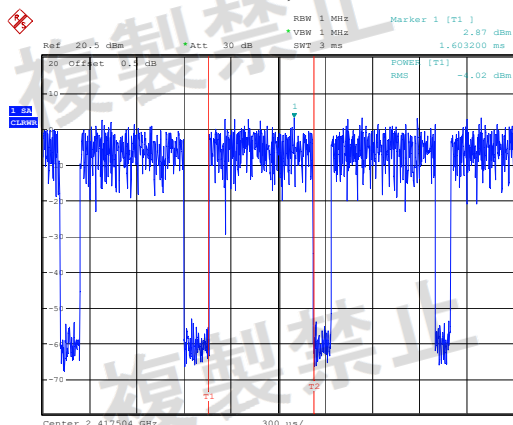
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 14:21:00

802.11g, High Channel



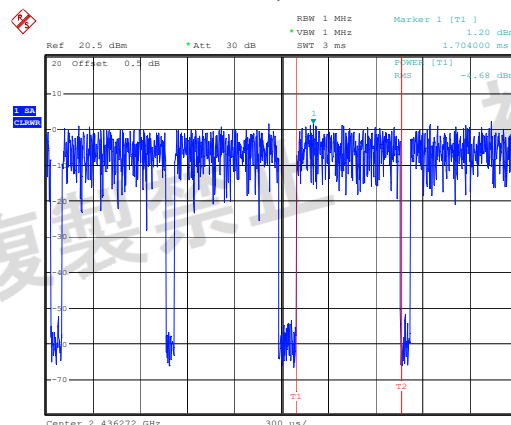
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 14:22:43

802.11n20, Low Channel



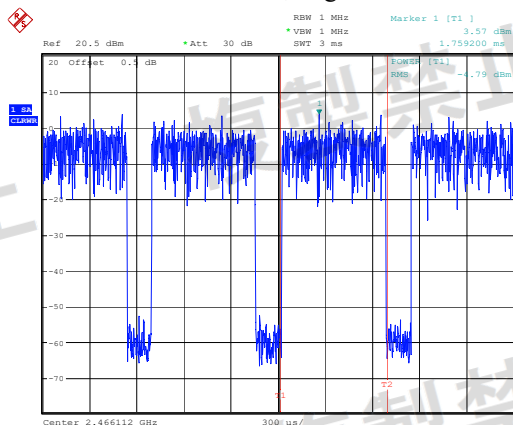
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 15:00:37

802.11n20, Middle Channel



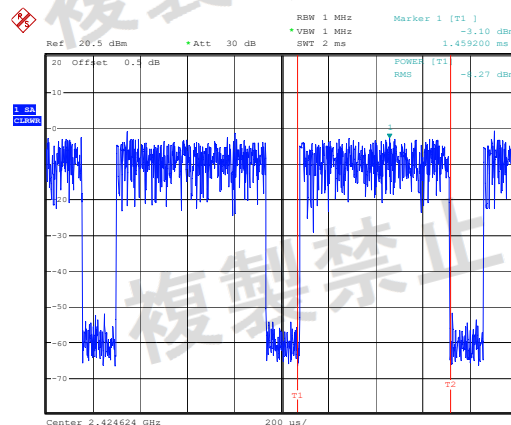
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 15:02:38

802.11n20, High Channel



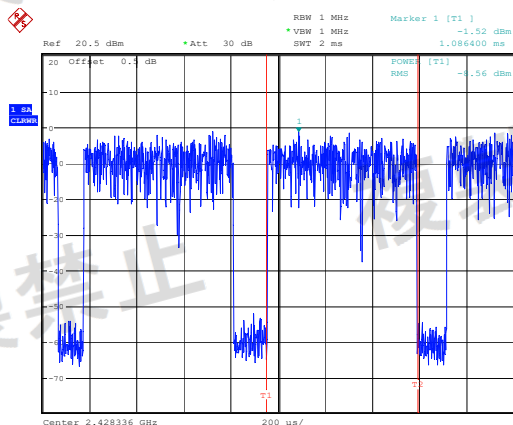
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 15:04:41

802.11n40, Low Channel



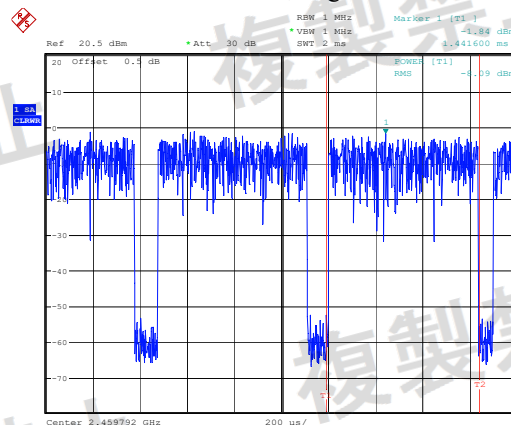
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 15:07:21

802.11n40, Middle Channel



ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 15:08:56

802.11n40, High Channel



ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 4.NOV.2025 15:11:27

RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

Limit

- $\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)
- $\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

Test Procedure

- ❖ Conditions of Application Equipment (EUT)
 - The modulation state shall be “continuous receiving mode”.
- ❖ Spectrum Analyzer Conditions
 - Start Frequency: Start Frequency of frequency range to measure (30MHz to 1GHz)
 - Stop Frequency: Stop Frequency of frequency range to measure (1GHz to 12.5GHz)
 - Span: AUTO (Measurement Range)
 - RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
 - RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
 - Sweep time: AUTO or more
 - Sweep mode: Auto Sweep
 - Detection: Positive Peak
 - Reference Level: Enough level for maximum dynamic range

Test Data

Test Mode:	Receiving	Test Date:	2025-11-03
Temperature:	25.3°C	ATM Pressure:	100.1kPa
Humidity:	49%	Test Engineer:	Apollo Luo

Test Result: Compliant, please see the below tables and plots

Test Condition: NV**Chain 0**

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
802.11b	Low	Band I (100kHz)	30	1000	276.0405	-73.95	0.040	4	Pass
		Band II (1MHz)	1000	12500	11620.25	-66.09	0.246	20	Pass
	Middle	Band I (100kHz)	30	1000	465.433	-73.85	0.041	4	Pass
		Band II (1MHz)	1000	12500	11253.975	-65.89	0.258	20	Pass
	High	Band I (100kHz)	30	1000	240.781	-74.31	0.037	4	Pass
		Band II (1MHz)	1000	12500	10507.625	-66.48	0.225	20	Pass
802.11g	Low	Band I (100kHz)	30	1000	525.67	-72.90	0.051	4	Pass
		Band II (1MHz)	1000	12500	12008.375	-65.95	0.254	20	Pass
	Middle	Band I (100kHz)	30	1000	593.0365	-73.95	0.040	4	Pass
		Band II (1MHz)	1000	12500	10415.625	-66.05	0.248	20	Pass
	High	Band I (100kHz)	30	1000	166.964	-73.74	0.042	4	Pass
		Band II (1MHz)	1000	12500	2479.475	-64.36	0.366	20	Pass

Chain 1

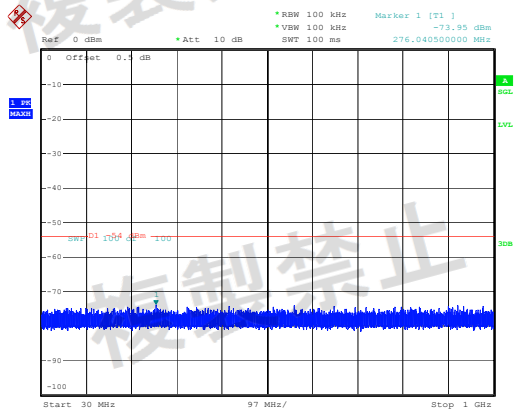
Mode	Channel	Test Band (RBW)	Start(MHz)	Stop(MHz)	Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
802.11b	Low	Band I (100kHz)	30	1000	319.9815	-73.56	0.044	4	Pass
		Band II (1MHz)	1000	12500	2434.625	-54.14	3.855	20	Pass
	Middle	Band I (100kHz)	30	1000	799.986	-73.46	0.045	4	Pass
		Band II (1MHz)	1000	12500	2434.625	-52.65	5.433	20	Pass
	High	Band I (100kHz)	30	1000	319.933	-70.01	0.100	4	Pass
		Band II (1MHz)	1000	12500	2434.625	-54.76	3.342	20	Pass
802.11g	Low	Band I (100kHz)	30	1000	319.9815	-70.52	0.089	4	Pass
		Band II (1MHz)	1000	12500	2435.2	-51.59	6.934	20	Pass
	Middle	Band I (100kHz)	30	1000	479.983	-73.53	0.044	4	Pass
		Band II (1MHz)	1000	12500	2439.8	-54.81	3.304	20	Pass
	High	Band I (100kHz)	30	1000	319.933	-70.14	0.097	4	Pass
		Band II (1MHz)	1000	12500	2434.625	-50.88	8.166	20	Pass

Chain 0&1

802.11n20	Low	Band I (100kHz)	30	1000	319.933	-70.15	0.097	4	Pass
		Band II (1MHz)	1000	12500	2434.625	-49.97	10.069	20	Pass
	Middle	Band I (100kHz)	30	1000	319.9815	-70.79	0.083	4	Pass
		Band II (1MHz)	1000	12500	11935.35	-65.06	0.312	20	Pass
	High	Band I (100kHz)	30	1000	639.936	-70.42	0.091	4	Pass
		Band II (1MHz)	1000	12500	2438.65	-51.01	7.925	20	Pass
802.11n40	Low	Band I (100kHz)	30	1000	319.9815	-70.73	0.085	4	Pass
		Band II (1MHz)	1000	12500	2434.05	-52.00	6.310	20	Pass
	Middle	Band I (100kHz)	30	1000	319.933	-71.10	0.078	4	Pass
		Band II (1MHz)	1000	12500	2435.2	-53.50	4.467	20	Pass
	High	Band I (100kHz)	30	1000	319.933	-70.66	0.086	4	Pass
		Band II (1MHz)	1000	12500	2435.775	-51.91	6.442	20	Pass

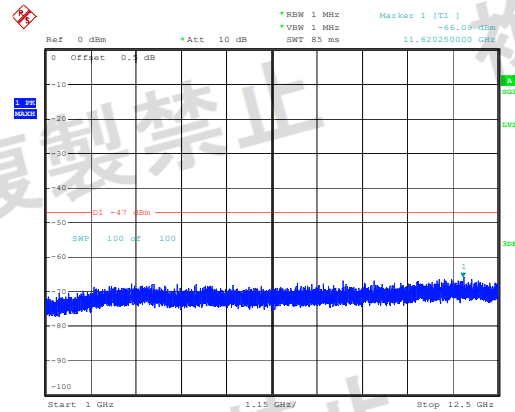
Chain 0, Test Condition: NV

802.11b, Low Channel(30MHz~1GHz)



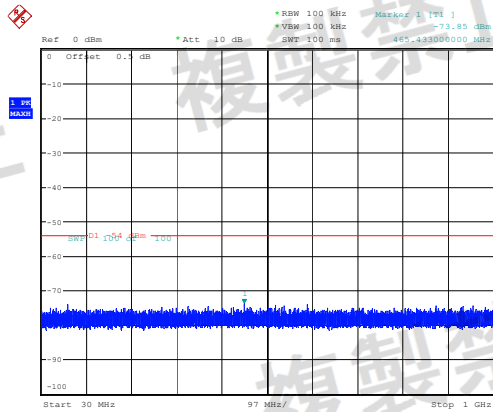
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 11:21:01

802.11b, Low Channel(1GHz~12.5GHz)



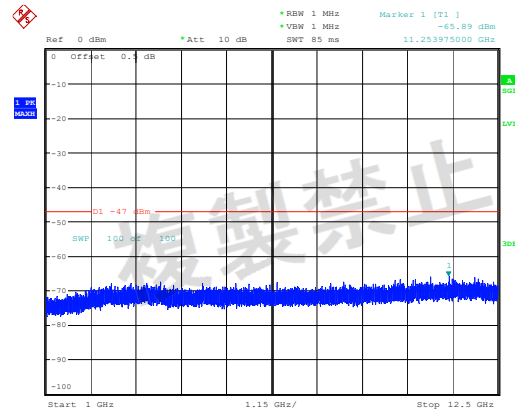
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Date: 3.NOV.2025 11:17:06

802.11b, Middle Channel(30MHz~1GHz)



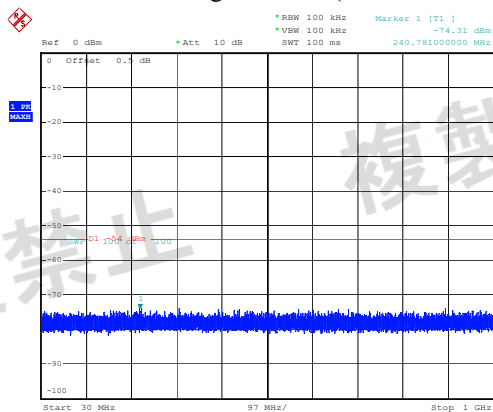
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 11:17:56

802.11b, Middle Channel(1GHz~12.5GHz)



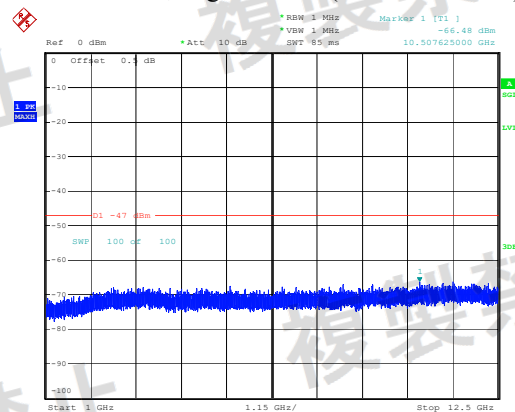
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Date: 3.NOV.2025 11:21:44

802.11b, High Channel(30MHz~1GHz)



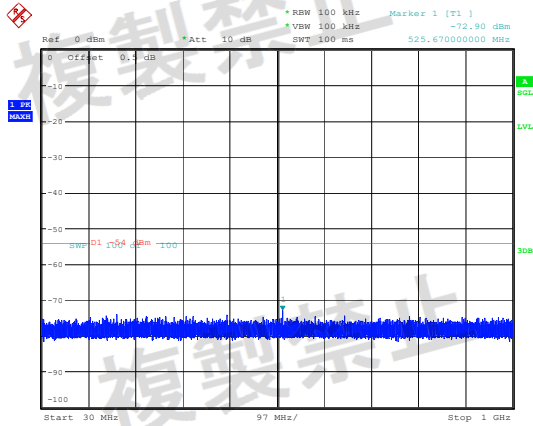
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Date: 3.NOV.2025 11:19:07

802.11b, High Channel(1GHz~12.5GHz)



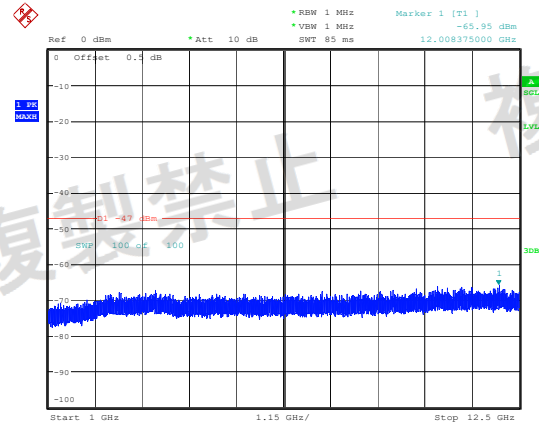
ProjectNo.:2507Y32305E-RF Tester: Apollo Luo
Date: 3.NOV.2025 11:22:25

802.11g, Low Channel(30MHz~1GHz)



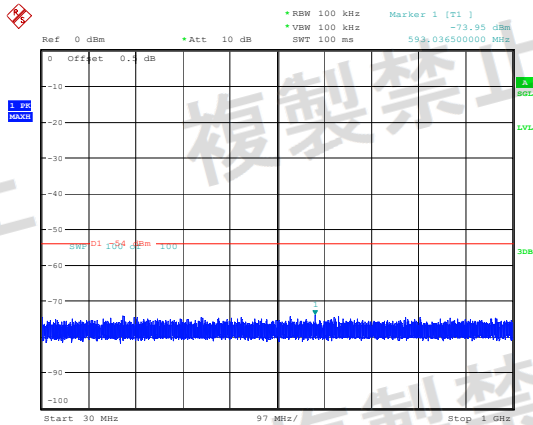
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Date: 3.NOV.2025 11:22:55

802.11g, Low Channel(1GHz~12.5GHz)



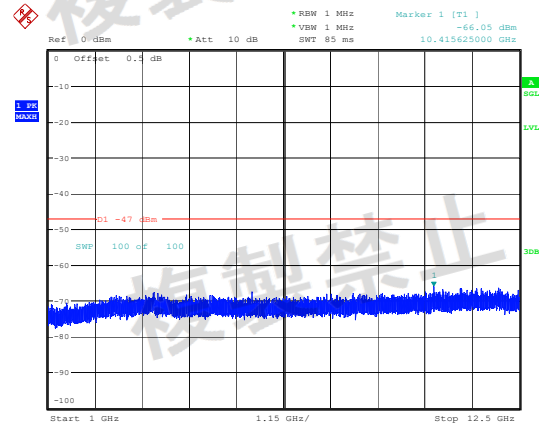
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Date: 3.NOV.2025 11:23:36

802.11g, Middle Channel(30MHz~1GHz)



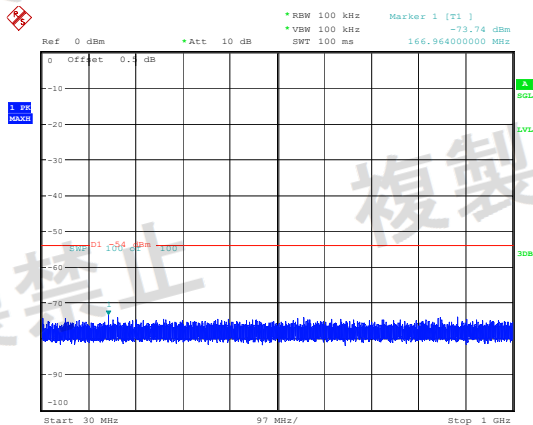
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Date: 3.NOV.2025 11:24:05

802.11g, Middle Channel(1GHz~12.5GHz)



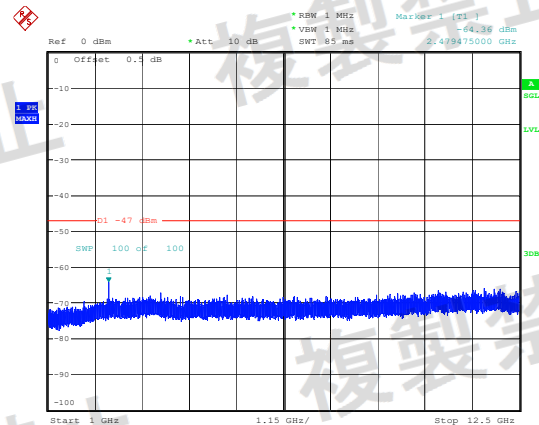
ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 11:33:58

802.11g, High Channel(30MHz~1GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 11:25:17

802.11g, High Channel(1GHz~12.5GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollio Luo
Date: 3.NOV.2025 11:25:57

802.11b, Low Channel(30MHz~1GHz)

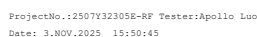


0 dBm
Ref 0 dBm
Att 10 dB
Marker 1 [T1]
~70.01 dBm
SWT 100 ms
319.931000000 MHz

0 dBm
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100

SWT 01 100 dB 100

Start 30 MHz
97 MHz/
Stop 1 GHz



Ref 0 dBm *Att 10 dB RBW 1 MHz Marker 1 [T1] -54.14 dBm
 VBW 1 MHz SMT 85 ms 2.434625000 GHz

1.95 MHz

0 Offset 0.1 dB

-10

-20

-30

-40

-50

-60

-70

-80

-90

-100

-110

-120

-130

-140

-150

-160

-170

-180

-190

-200

-210

-220

-230

-240

-250

-260

-270

-280

-290

-300

-310

-320

-330

-340

-350

-360

-370

-380

-390

-400

-410

-420

-430

-440

-450

-460

-470

-480

-490

-500

-510

-520

-530

-540

-550

-560

-570

-580

-590

-600

-610

-620

-630

-640

-650

-660

-670

-680

-690

-700

-710

-720

-730

-740

-750

-760

-770

-780

-790

-800

-810

-820

-830

-840

-850

-860

-870

-880

-890

-900

-910

-920

-930

-940

-950

-960

-970

-980

-990

-1000

-1010

-1020

-1030

-1040

-1050

-1060

-1070

-1080

-1090

-1100

-1110

-1120

-1130

-1140

-1150

-1160

-1170

-1180

-1190

-1200

-1210

-1220

-1230

-1240

-1250

-1260

-1270

-1280

-1290

-1300

-1310

-1320

-1330

-1340

-1350

-1360

-1370

-1380

-1390

-1400

-1410

-1420

-1430

-1440

-1450

-1460

-1470

-1480

-1490

-1500

-1510

-1520

-1530

-1540

-1550

-1560

-1570

-1580

-1590

-1600

-1610

-1620

-1630

-1640

-1650

-1660

-1670

-1680

-1690

-1700

-1710

-1720

-1730

-1740

-1750

-1760

-1770

-1780

-1790

-1800

-1810

-1820

-1830

-1840

-1850

-1860

-1870

-1880

-1890

-1900

-1910

-1920

-1930

-1940

-1950

-1960

-1970

-1980

-1990

-2000

-2010

-2020

-2030

-2040

-2050

-2060

-2070

-2080

-2090

-2100

-2110

-2120

-2130

-2140

-2150

-2160

-2170

-2180

-2190

-2200

-2210

-2220

-2230

-2240

-2250

-2260

-2270

-2280

-2290

-2300

-2310

-2320

-2330

-2340

-2350

-2360

-2370

-2380

-2390

-2400

-2410

-2420

-2430

-2440

-2450

-2460

-2470

-2480

-2490

-2500

-2510

-2520

-2530

-2540

-2550

-2560

-2570

-2580

-2590

-2600

-2610

-2620

-2630

-2640

-2650

-2660

-2670

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-2700

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-2720

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-2830

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-2850

-2860

-2870

-2880

-2890

-2900

-2910

-2920

-2930

-2940

-2950

-2960

-2970

-2980

-2990

-3000

-3010

-3020

-3030

-3040

-3050

-3060

-3070

-3080

-3090

-3100

-3110

-3120

-3130

-3140

-3150

-3160

-3170

-3180

-3190

-3200

-3210

-3220

-3230

-3240

-3250

-3260

-3270

-3280

-3290

-3300

-3310

-3320

-3330

-3340

-3350

-3360

-3370

-3380

-3390

-3400

-3410

-3420

-3430

-3440

-3450

-3460

-3470

-3480

-3490

-3500

-3510

-3520

-3530

-3540

-3550

-3560

-3570

-3580

-3590

-3600

-3610

-3620

-3630

-3640

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-3660

-3670

-3680

-3690

-3700

-3710

-3720

-3730

-3740

-3750

-3760

-3770

-3780

-3790

-3800

-3810

-3820

-3830

-3840

-3850

-3860

-3870

-3880

-3890

-3900

-3910

-3920

-3930

-3940



Ref 0 dBm Att 10 dB RBW 1 MHz VSW 1 MHz Marker 1 [T1] -52.65 dBm SWT 85 ms 2.434625000 GHz

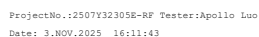
0 Offset 0.1 dB

1.99 MHz

-47 dBm

SWP 100 dB 100

Start 1.15 GHz 1.15 GHz/ Stop 1.2 GHz



Ref 0 dBm Att 10 dB RBW 1 MHz VBN 1 MHz SWP 85 ms

Marker: 47 dBm

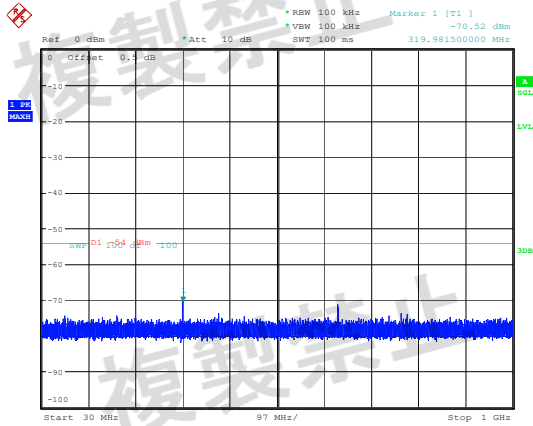
Scale: 0.5 dB

Frequency Range: 1.15 GHz to 12.5 GHz

Amplitude Range: -100 dBm to -10 dBm

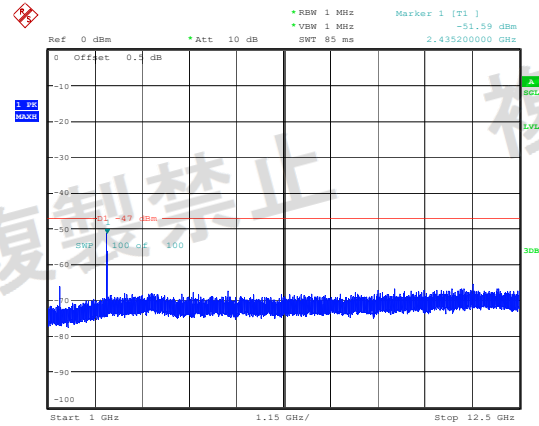


802.11g, Low Channel(30MHz~1GHz)



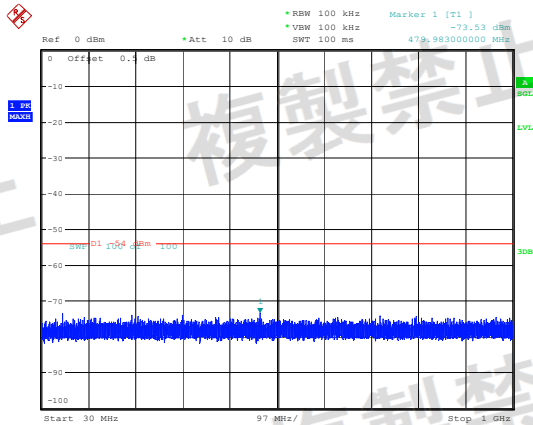
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:13:06

802.11g, Low Channel(1GHz~12.5GHz)



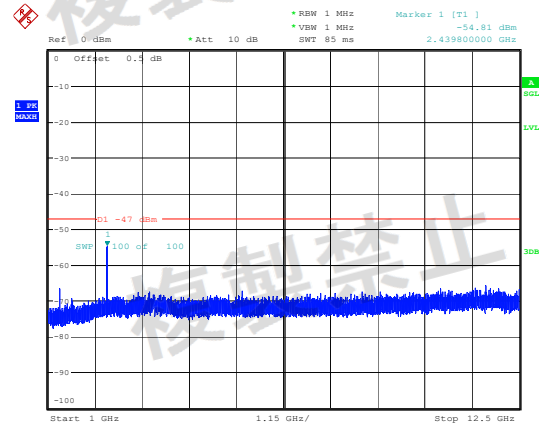
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Date: 3.NOV.2025 16:13:51

802.11g, Middle Channel(30MHz~1GHz)



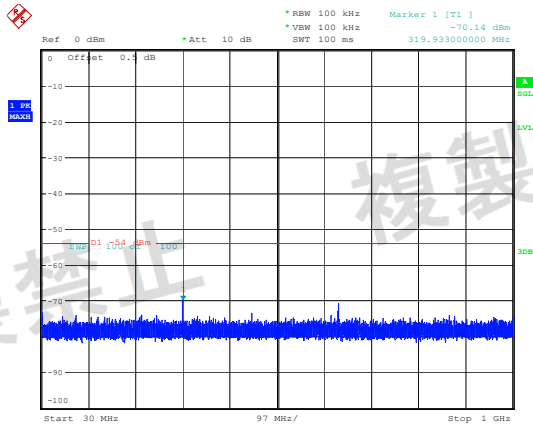
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Date: 3.NOV.2025 15:53:40

802.11g, Middle Channel(1GHz~12.5GHz)



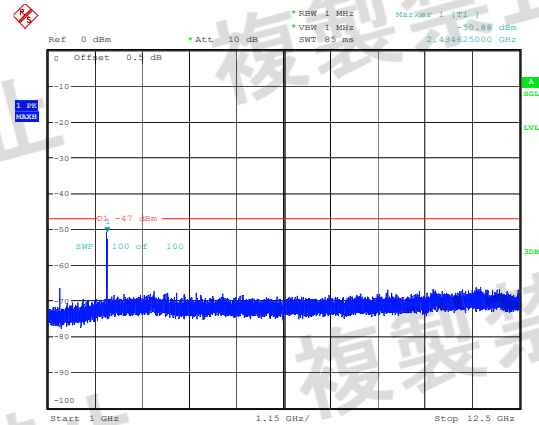
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Date: 3.NOV.2025 16:14:31

802.11g, High Channel(30MHz~1GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 15:54:57

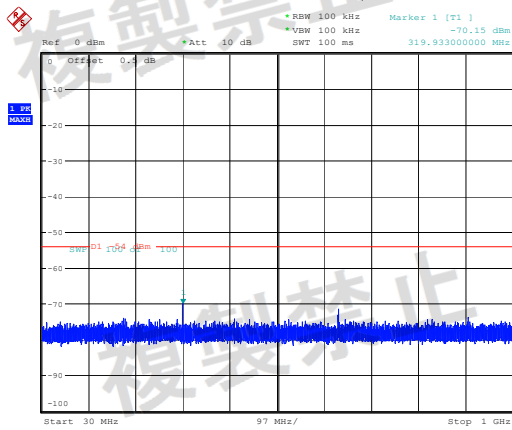
802.11g, High Channel(1GHz~12.5GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:15:21

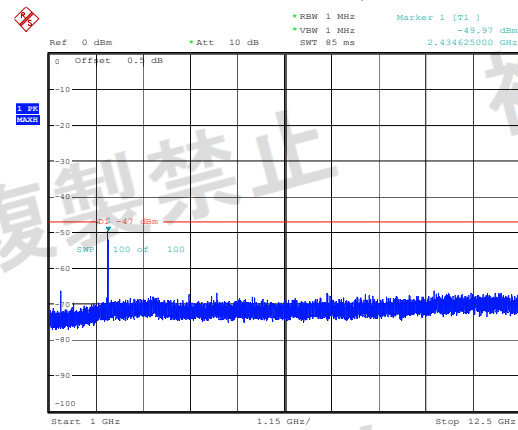
Chain 0&1, Test Condition: NV

802.11n20, Low Channel(30MHz~1GHz)



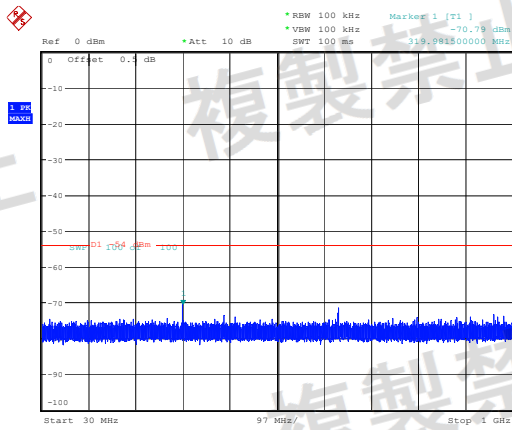
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Date: 3.NOV.2025 15:56:06

802.11n20, Low Channel(1GHz~12.5GHz)



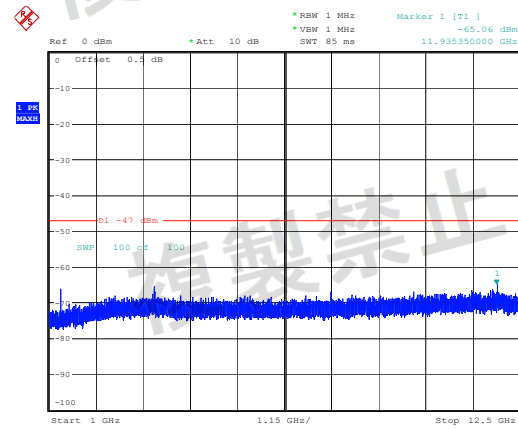
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Date: 3.NOV.2025 16:16:19

802.11n20, Middle Channel(30MHz~1GHz)



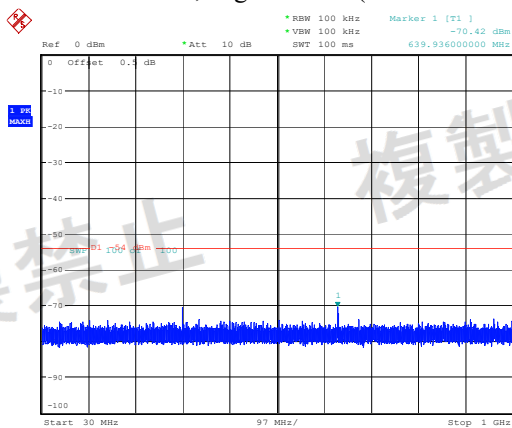
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Date: 3.NOV.2025 15:57:14

802.11n20, Middle Channel(1GHz~12.5GHz)



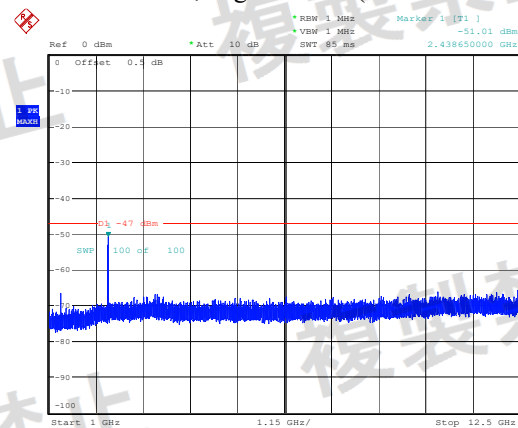
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802.11n20, High Channel(30MHz~1GHz)



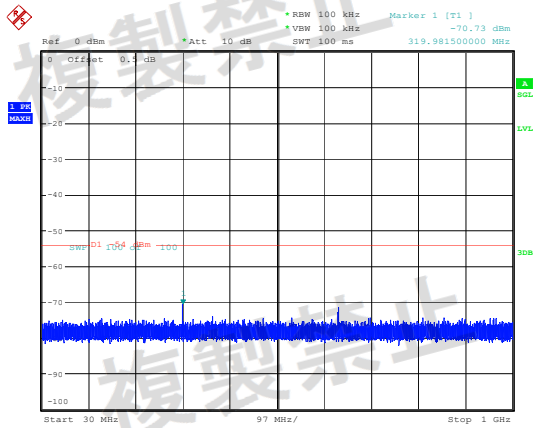
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Date: 3.NOV.2025 16:16:54

802.11n20, High Channel(1GHz~12.5GHz)



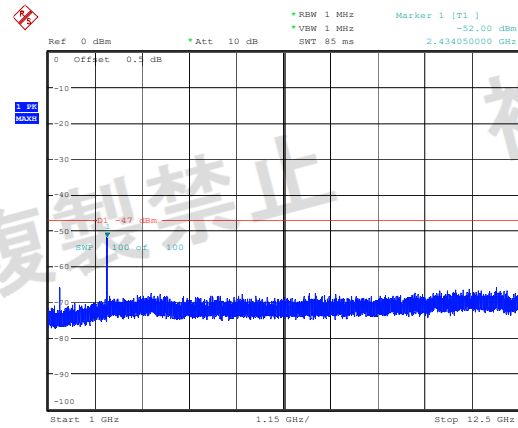
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Date: 3.NOV.2025 16:17:35

802.11n40, Low Channel(30MHz~1GHz)



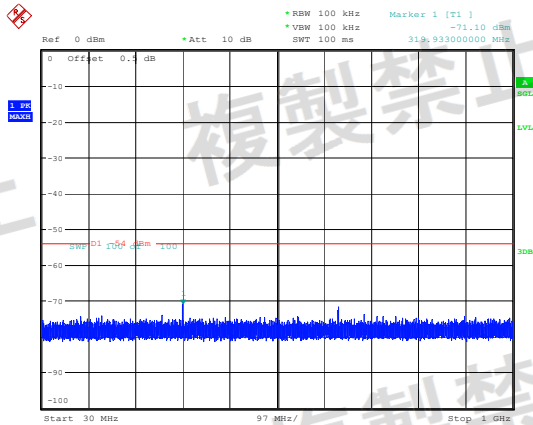
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:18:03

802.11n40, Low Channel(1GHz~12.5GHz)



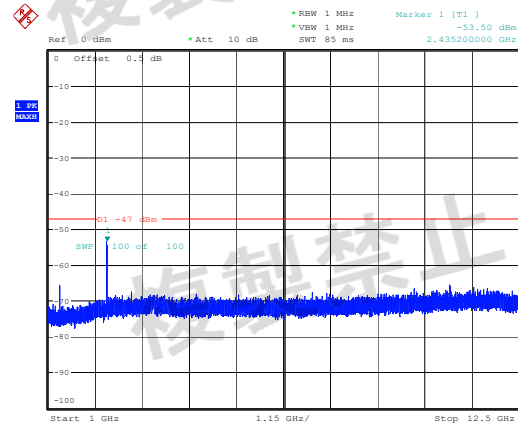
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Date: 3.NOV.2025 16:21:37

802.11n40, Middle Channel(30MHz~1GHz)



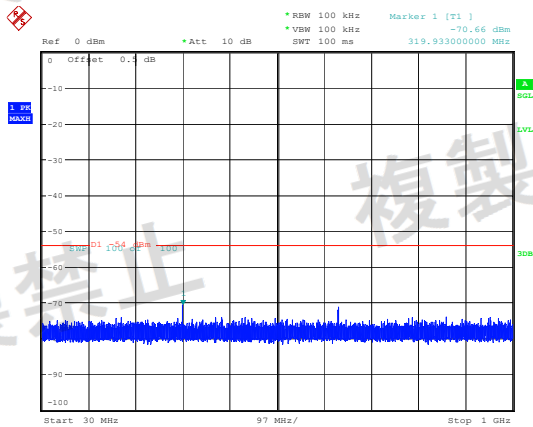
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:00:41

802.11n40, Middle Channel(1GHz~12.5GHz)



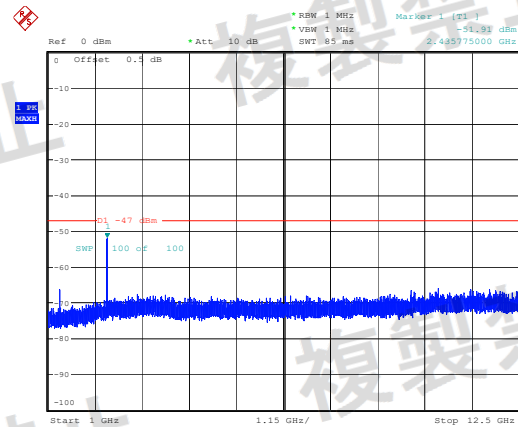
ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:19:26

802.11n40, High Channel(30MHz~1GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:01:53

802.11n40, High Channel(1GHz~12.5GHz)



ProjectNo.:2507Y32305E-RF Tester:Apollo Luo
Date: 3.NOV.2025 16:20:06

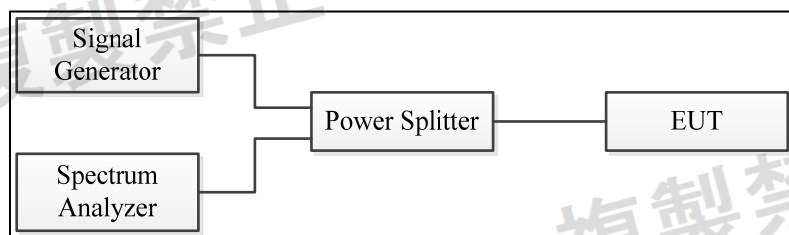
CARRIER SENSE CAPABILITY

Limit

EUT stop RF transmission signal after carrier inject to EUT

Test Procedure

❖ Measurement System Diagram



❖ Conditions of Application Equipment (EUT)

The EUT state shall be “normal mode link with wireless router” .

❖ Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG.
2. Turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA: RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

Measurement Result

Test Mode:	Transmitting	Test Date:	2025-11-03
Temperature:	25.3℃	ATM Pressure:	100.1kPa
Humidity:	49%	Test Engineer:	Apollo Luo

Result: Compliant. EUT stop RF transmission signal after carrier inject to EUT

INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

Test Procedure

In the case that the EUT has the function of automatically transmitting the identification code:

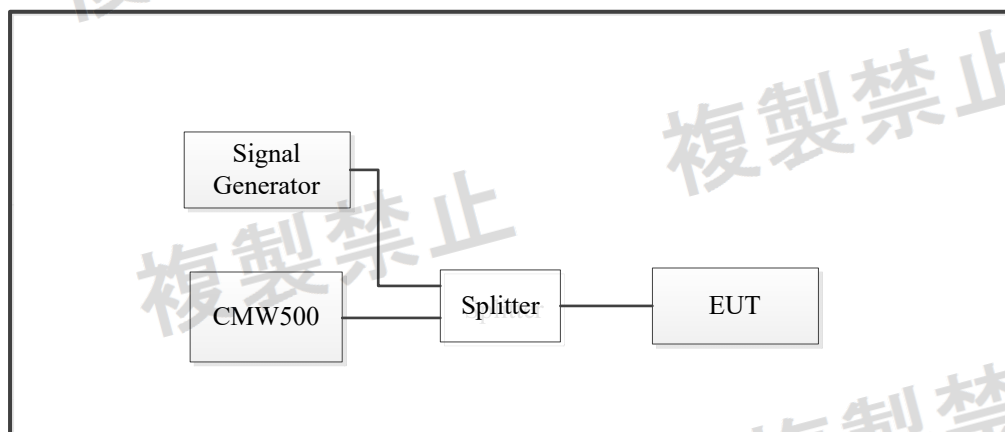
1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Test Procedure

❖ Measurement System Diagram



Test Data

Test Mode:	Transmitting	Test Date:	2025-11-03
Temperature:	25.3°C	ATM Pressure:	100.1kPa
Humidity:	49%	Test Engineer:	Apollo Luo

Test Result: Compliant. Identification Codes (ID Codes): 6E:4C:81:30:72:A9

CONSTRUCTION PROTECTION CONFIRMATION

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Result

Compliant, the RF part (include antenna) was covered by EUT case with screws, it can't be opened easily. Please refer the EUT photo.

EXHIBIT A – EUT PHOTOGRAPHS

Please refer to the attachment 2507Y32305E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507Y32305E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507Y32305E-RF-TSP SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Fujian) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Fujian).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******END OF REPORT******