

TEST REPORT

Applicant: BAIC Foton Motor Co., Ltd.

Address: North of Laoniawan Village, Shayang Road, Shahe Town,
Changping District, Beijing, China

Product Name: In-Vehicle Infotainment

Model Name: ZXE94

Type of Equipment: Certification Ordinance Article 2-1-19

Test method(s): MIC Notice No.88 of 2004, Appendix No.43 (Version: MIC Notice
No.409 of 2023)

Report Number: 2602T57987E-RF-07C

Report Date: 2026/6/10

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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Rocky Xiao

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602T57987E-RF-07C	Original Report	2026/6/10

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product Name:	In-Vehicle Infotainment
Trade Mark:	iThink
Test Model:	ZXE94
Rated Input Voltage:	DC 9-36V; Typical voltage: 12VDC
Serial Number:	3M95-2
EUT Received Date:	2026/5/18
EUT Received Status:	Good

Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

Technical Specification

Operation Frequency Range (MHz):	802.11b/g/n20: 2412-2472
Nominal RF Output Power (Conducted, mW/MHz):	802.11b: 3.5 802.11g: 1.5 802.11n20: 1.5
Number of TX Chain(s)	1
Number of RX Chain(s)	1
Antenna System:	SISO
Antenna Gain (dBi) [▲] :	2
Modulation Type:	DSSS, OFDM
Emission Type	G1D, D1D

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Frequency Error	±0.076 ppm
Occupied bandwidth and spreading bandwidth	±5 %
RF output power, conducted	±0.55dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	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.

SUMMARY OF TEST RESULTS

SN	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth and Spread 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 (1)	Not Applicable*
7	Carrier sense capability (2)	Not Applicable**
8	Carrier sense capability (3)	Not Applicable***
9	Transmission frequency channel switching function	Not Applicable*
10	Transmission Antenna Gain	Not Applicable****
11	Transmission Radiation Angle Width	Not Applicable****
12	Interference Prevention Function	Compliant
13	Frequency Hopping Dwell Time	Not Applicable*****
14	Construction Protection Confirmation	Compliant

Note:

Not Applicable*: Only required for device with “compensating for the reduction of EIRP with output power” function.

Not Applicable**: Only required for OBW between 26MHz and 40MHz with OFDM modulation type.

Not Applicable***: Only required for outdoor use radio control of model airplanes.

Not Applicable****: This item not applicable when the EIRP less than the limit.

Not Applicable*****: Testing is only required for FHSS system devices.

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.

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

The EUT in built a Power manage system, power deviation of the RF chipset is less than 1% when extreme voltage supplied, therefore the test only performed at normal voltage condition. Details as following:

Voltage Condition	EUT Input Voltage (V _{DC})	RF chipset input Voltage (V _{DC})
NV	12	4
LV	9	3.99
HV	36	4

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Software " Engineering mode[▲]" 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 (Mbps)	Power level
802.11 b	Low	2412	1	15
	Middle	2442	1	15
	High	2472	1	15
802.11 g	Low	2412	6	15
	Middle	2442	6	15
	High	2472	6	15
802.11 n20	Low	2412	MCS0	15
	Middle	2442	MCS0	15
	High	2472	MCS0	15

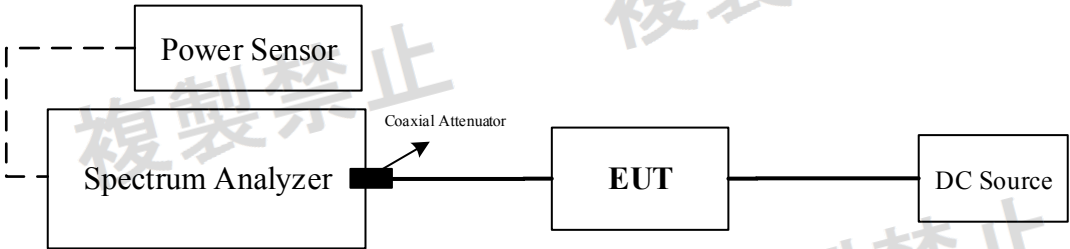
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

Configuration of Test Setup



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method ^{Note}
R&S	Wideband Radio Communication Tester	CMW500	147473	2025/7/28	2026/7/27	BACL Metrology	C
JD	Test Software	JD Auto Test System	V1.0	N/A	N/A	/	/
R&S	Spectrum Analyzer	FSU 26	200160/026	2025/7/28	2026/7/27	BACL Metrology	C
Eastsheep	Coaxial Attenuator	2W-SMA-JK-6G-10dB	F-08-EM509	2026/3/30	2027/3/29	BACL(DG)	D
Agilent	MXG Vector Signal Generator	N5182A	MY49060274	2025/7/29	2026/7/28	BACL Metrology	C
Agilent	DC Power Supply	E3642A	25390	2025/7/29	2026/7/28	BACL Metrology	C
Mini-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2026/2/24	2027/2/23	BACL(DG)	D
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2026/5/25	2027/5/24	BACL Metrology	C

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

Note:

- A. 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).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

Test Environmental Conditions

Temperature:	24.4~24.8℃
Relative Humidity:	50~52%
ATM Pressure:	99.6~100.4kPa
Tester:	Rini Yan
Test Date:	2026/5/28~2026/6/9

1 - FREQUENCY ERROR

Limit

Within ± 50 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 Result: Compliant

Test Mode: Transmitting

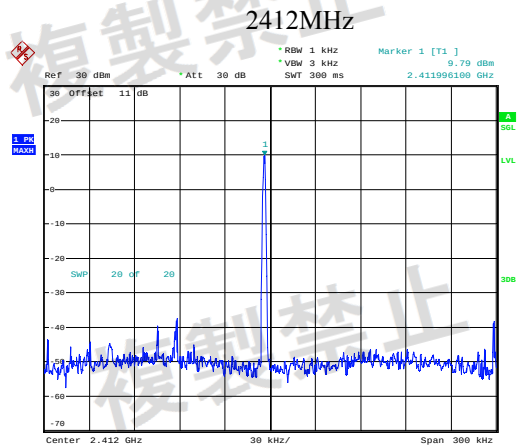
Test Condition: NV

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance(ppm)	Limit (ppm)	Verdict
Single Carrier	2412	2411.99610	-1.62	± 50	Pass
	2442	2441.99610	-1.60	± 50	Pass
	2472	2471.99550	-1.82	± 50	Pass

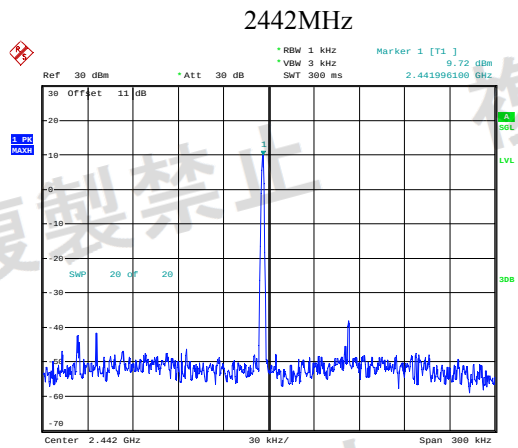
Note:

Frequency Tolerance = (Measure Frequency - Frequency)/Frequency*10⁶

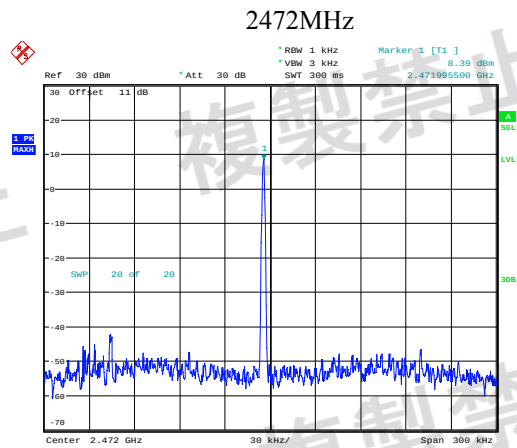
Test Condition: NV



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 9 JUN.2026 09:01:36



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 9 JUN.2026 09:03:04



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 9 JUN.2026 09:06:25

2 - OCCUPIED BANDWIDTH

Limit

- Occupied bandwidth: ≤ 26 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 Result: Compliant

Test Mode: Transmitting

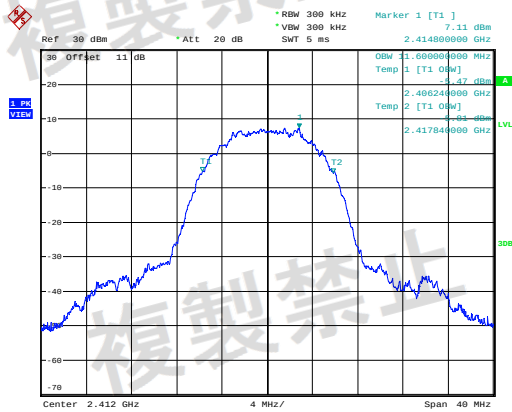
Test Condition: NV

Mode	Occupied bandwidth (MHz)			Limit (MHz)	Verdict
	Low Channel	Middle Channel	High Channel		
802.11b	11.60	11.68	11.60	≤ 26	Pass
802.11g	17.12	17.20	17.04	≤ 26	Pass
802.11n20	17.12	17.20	17.04	≤ 26	Pass

Please refer to the plots for normal voltage test.

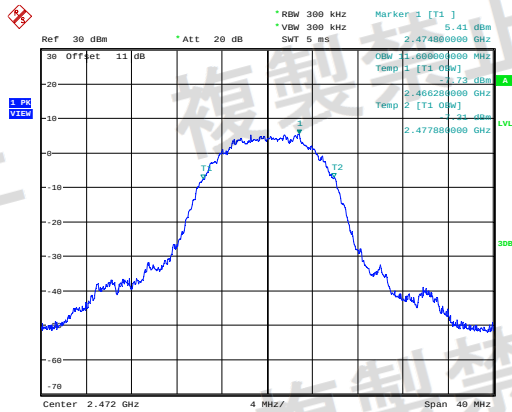
Test Condition: NV

802.11b, Low Channel



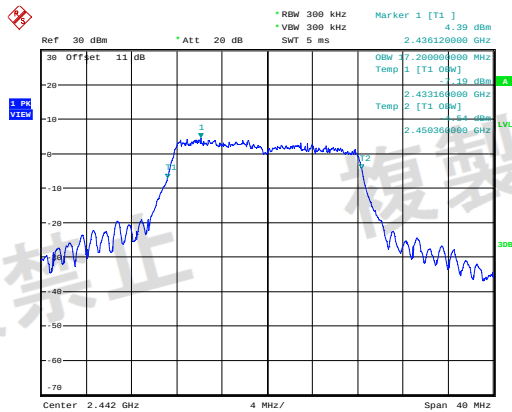
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802.11b, High Channel



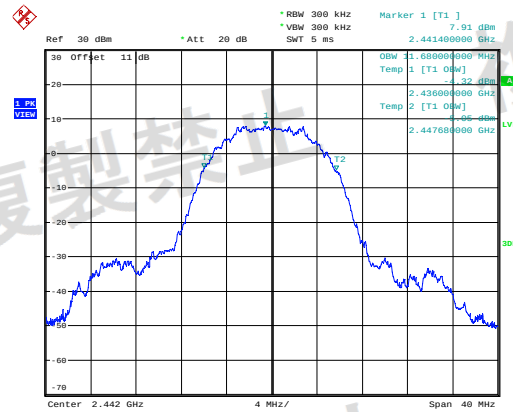
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Date: 28.MAY.2026 11:38:47

802.11g, Middle Channel



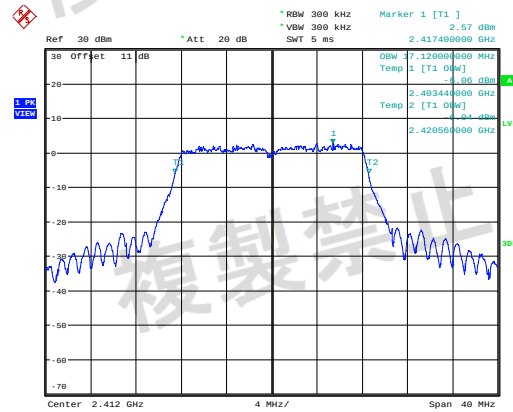
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Date: 28.MAY.2026 11:49:32

802.11b, Middle Channel



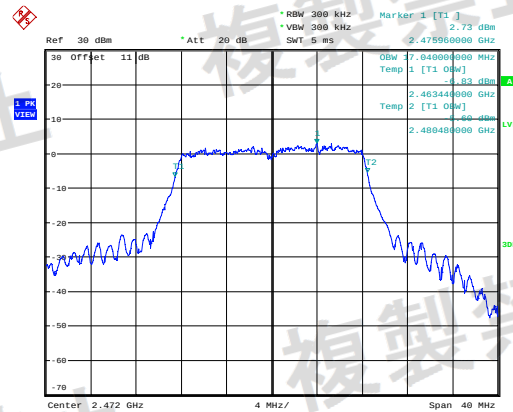
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Date: 28.MAY.2026 11:32:56

802.11g, Low Channel



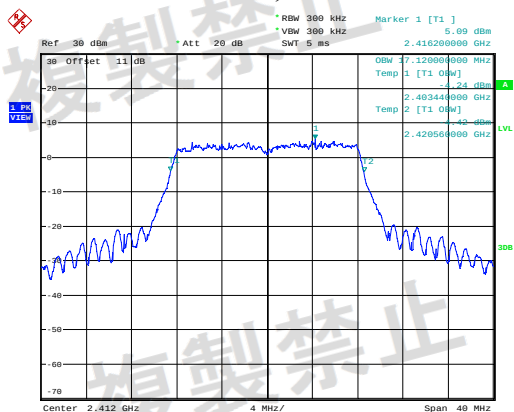
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Date: 28.MAY.2026 11:45:06

802.11g, High Channel



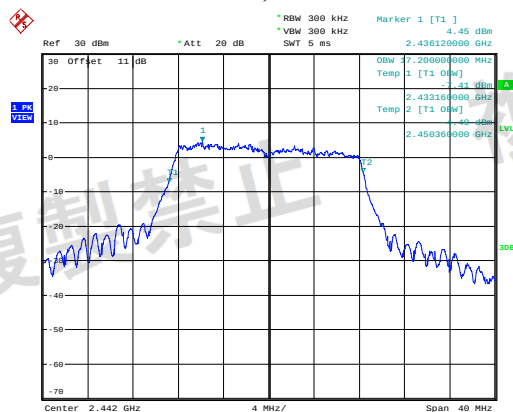
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Date: 28.MAY.2026 11:51:57

802.11n20, Low Channel



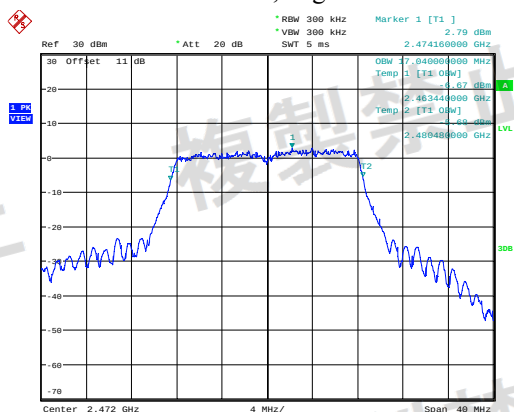
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Date: 28.MAY.2026 11:54:13

802.11n20, Middle Channel



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 11:55:33

802.11n20, High Channel



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 11:57:02

3 - 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 Result:** Compliant*Test Mode:* Transmitting**Test Condition:** NV**Chain 0, 802.11b**

Channel	Test Band (RBW)	Frequency Range		Max.Emission	Result	Result	Limit	Verdict
		Start(MHz)	Stop(MHz)	Located(MHz)	(dBm/RBW)	(μW/RBW)	(μW/RBW)	
Low	Band I (100kHz)	30	1000	97.415	-40.08	0.098	0.25	Pass
	Band II (1MHz)	1000	2387	2387.000	-45.07	0.031	2.50	Pass
	Band III (1MHz)	2387	2400	2398.336	-28.03	1.574	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.352	-45.11	0.031	25	Pass
	Band V (1MHz)	2496.5	12500	7238.159	-37.50	0.178	2.50	Pass
Middle	Band I (100kHz)	30	1000	608.120	-45.83	0.026	0.25	Pass
	Band II (1MHz)	1000	2387	2235.124	-45.26	0.030	2.50	Pass
	Band III (1MHz)	2387	2400	2400.000	-38.55	0.140	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.806	-40.56	0.088	25	Pass
	Band V (1MHz)	2496.5	12500	7323.189	-38.37	0.146	2.50	Pass
High	Band I (100kHz)	30	1000	592.600	-46.19	0.024	0.25	Pass
	Band II (1MHz)	1000	2387	2037.476	-46.02	0.025	2.50	Pass
	Band III (1MHz)	2387	2400	2398.934	-44.20	0.038	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.500	-18.88	12.942	25	Pass
	Band V (1MHz)	2496.5	12500	7418.222	-39.55	0.111	2.50	Pass

Chain 0, 802.11g

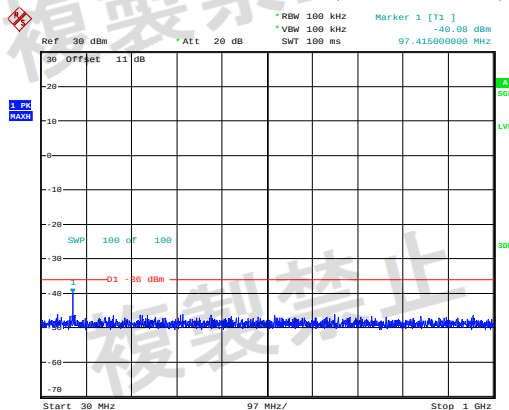
Channel	Test Band (RBW)	Frequency Range		Max.Emission	Result	Result	Limit	Verdict
		Start(MHz)	Stop(MHz)	Located(MHz)	(dBm/RBW)	(μW/RBW)	(μW/RBW)	
Low	Band I (100kHz)	30	1000	735.190	-45.24	0.030	0.25	Pass
	Band II (1MHz)	1000	2387	2387.000	-34.73	0.337	2.50	Pass
	Band III (1MHz)	2387	2400	2399.383	-34.93	0.321	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2487.075	-44.78	0.033	25	Pass
	Band V (1MHz)	2496.5	12500	7238.159	-39.13	0.122	2.50	Pass
Middle	Band I (100kHz)	30	1000	466.015	-45.32	0.029	0.25	Pass
	Band II (1MHz)	1000	2387	2211.545	-46.02	0.025	2.50	Pass
	Band III (1MHz)	2387	2400	2397.940	-39.98	0.100	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.722	-43.11	0.049	25	Pass
	Band V (1MHz)	2496.5	12500	7318.187	-40.07	0.098	2.50	Pass
High	Band I (100kHz)	30	1000	224.000	-45.79	0.026	0.25	Pass
	Band II (1MHz)	1000	2387	2115.148	-46.56	0.022	2.50	Pass
	Band III (1MHz)	2387	2400	2399.701	-44.64	0.034	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.533	-18.17	15.241	25	Pass
	Band V (1MHz)	2496.5	12500	7413.220	-41.37	0.073	2.50	Pass

Chain 0, 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	262.315	-45.71	0.027	0.25	Pass
	Band II (1MHz)	1000	2387	2384.920	-35.52	0.281	2.50	Pass
	Band III (1MHz)	2387	2400	2398.947	-16.07	24.717	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.833	-45.43	0.029	25	Pass
	Band V (1MHz)	2496.5	12500	7233.157	-38.98	0.126	2.50	Pass
Middle	Band I (100kHz)	30	1000	297.235	-45.41	0.029	0.25	Pass
	Band II (1MHz)	1000	2387	2387.000	-45.00	0.032	2.50	Pass
	Band III (1MHz)	2387	2400	2399.857	-39.07	0.124	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.754	-39.87	0.103	25	Pass
	Band V (1MHz)	2496.5	12500	7318.187	-37.76	0.167	2.50	Pass
High	Band I (100kHz)	30	1000	199.750	-46.11	0.024	0.25	Pass
	Band II (1MHz)	1000	2387	2335.681	-45.25	0.030	2.50	Pass
	Band III (1MHz)	2387	2400	2399.721	-44.35	0.037	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.546	-18.99	12.618	25	Pass
	Band V (1MHz)	2496.5	12500	7418.222	-39.17	0.121	2.50	Pass

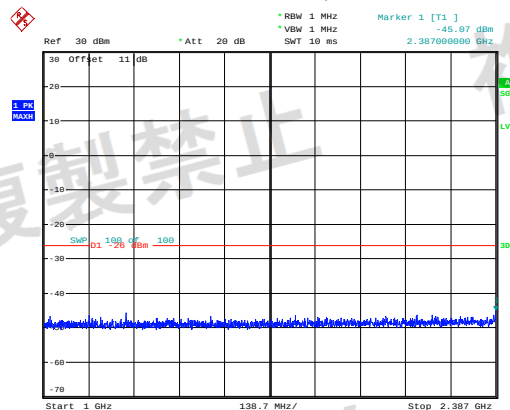
Test Condition: NV

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



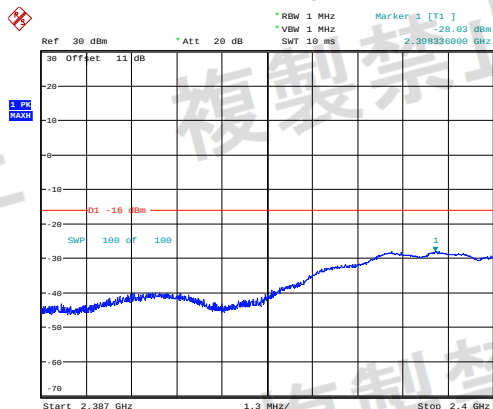
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:06:43

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



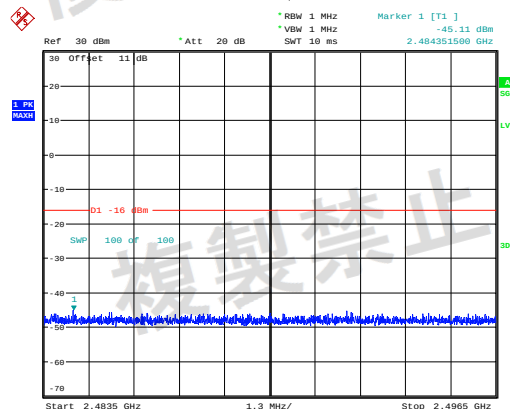
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:09:04

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



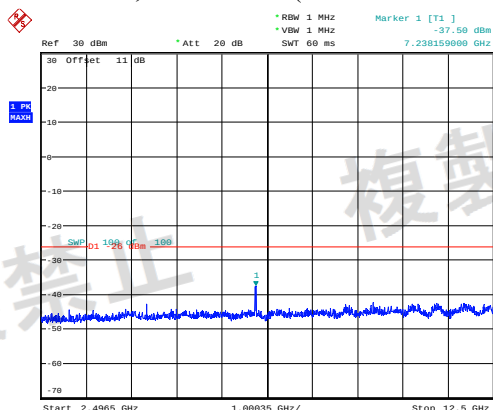
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:09:21

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



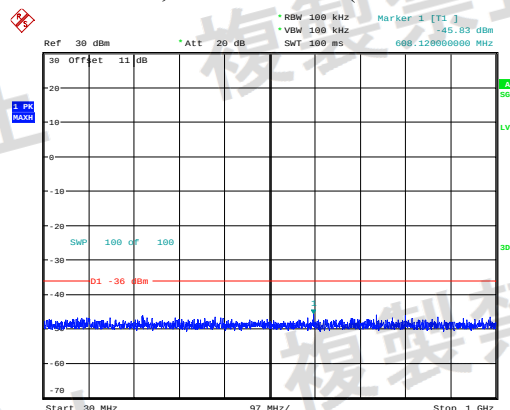
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Date: 28.MAY.2026 14:09:37

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



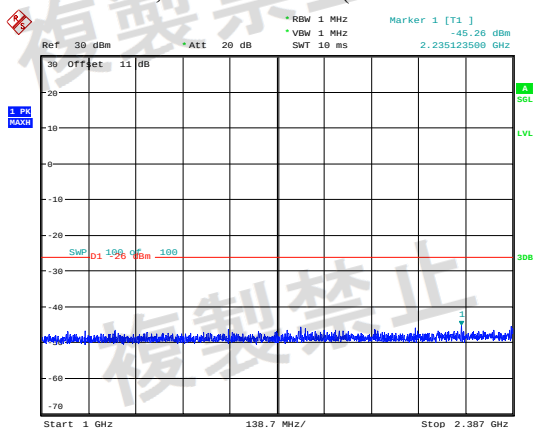
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:10:10

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



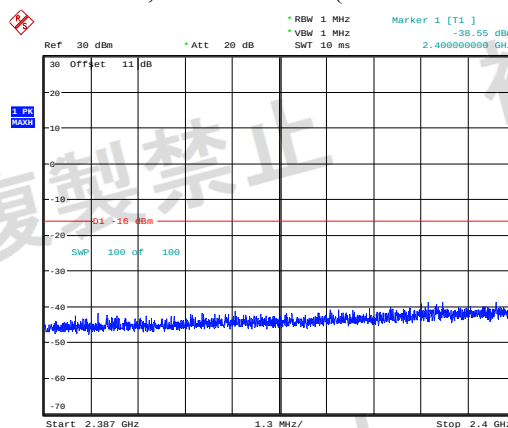
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:16:00

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



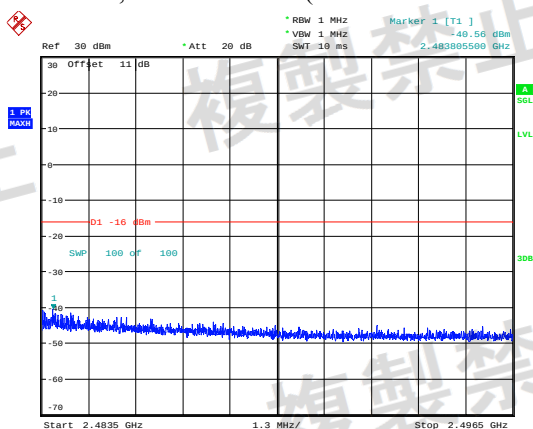
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Date: 28.MAY.2026 14:16:18

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



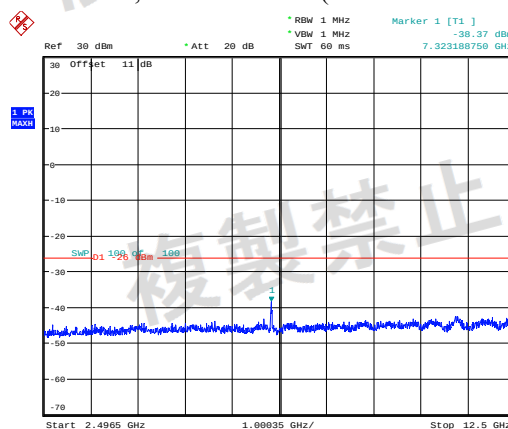
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Date: 28.MAY.2026 14:16:34

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



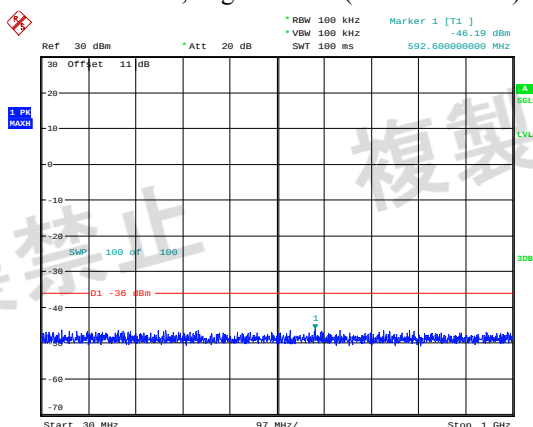
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Date: 28.MAY.2026 14:16:50

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



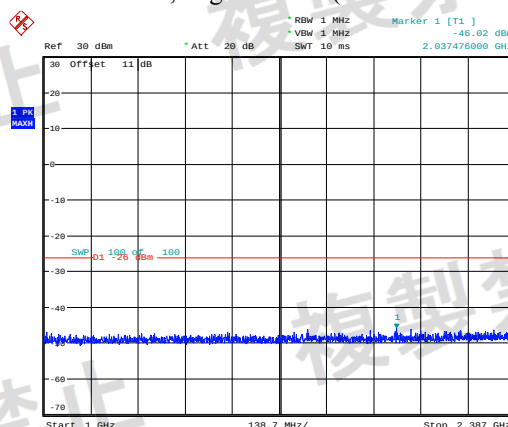
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:17:24

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



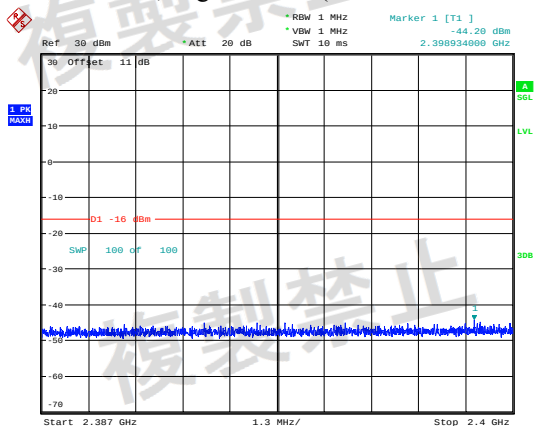
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:18:06

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



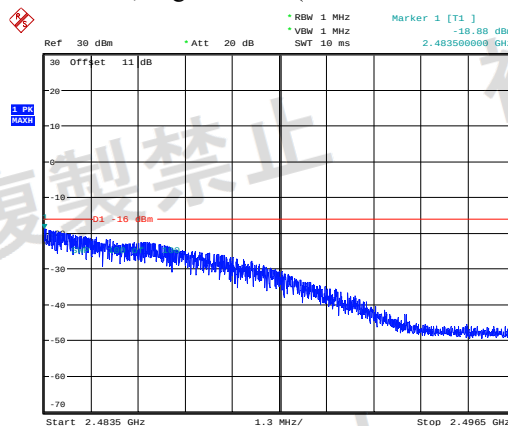
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Date: 28.MAY.2026 14:18:24

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



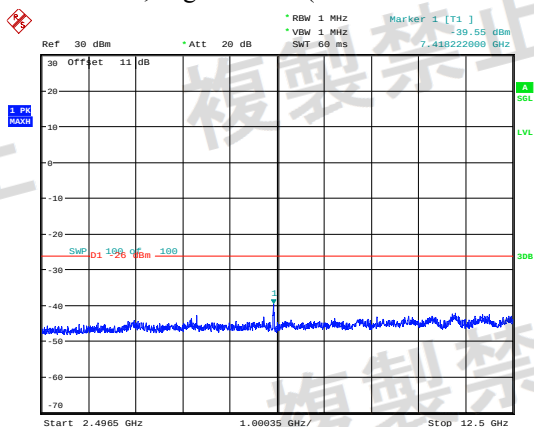
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Date: 28.MAY.2026 14:18:41

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



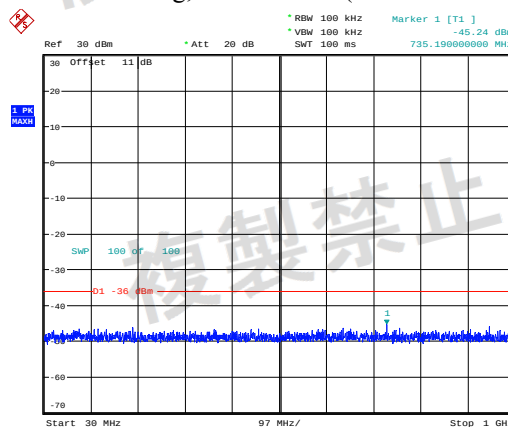
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:18:59

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



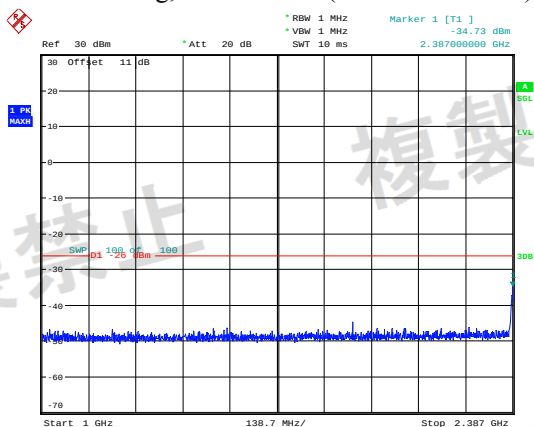
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:19:33

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



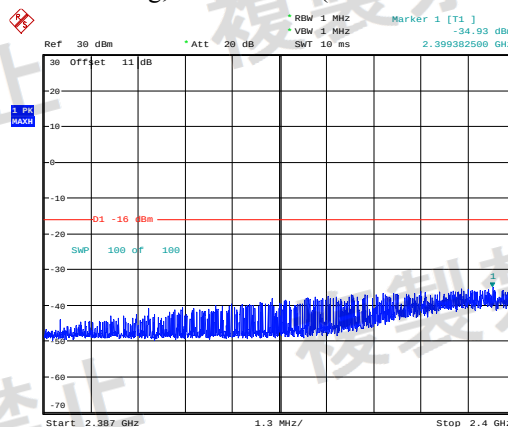
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:20:42

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



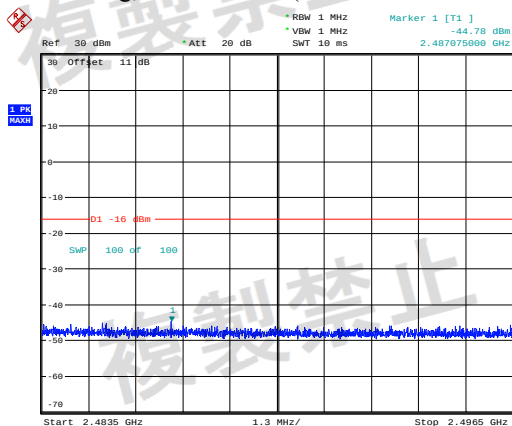
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:21:01

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



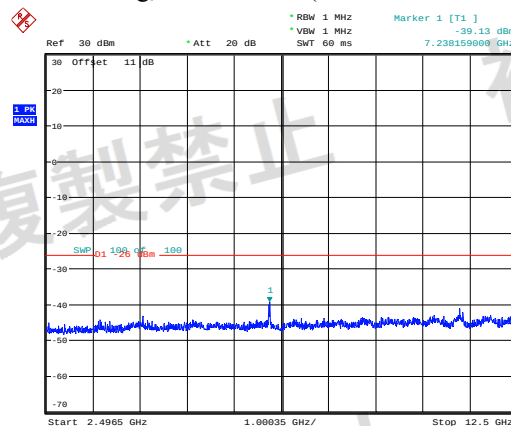
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 9.JUN.2026 09:19:14

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



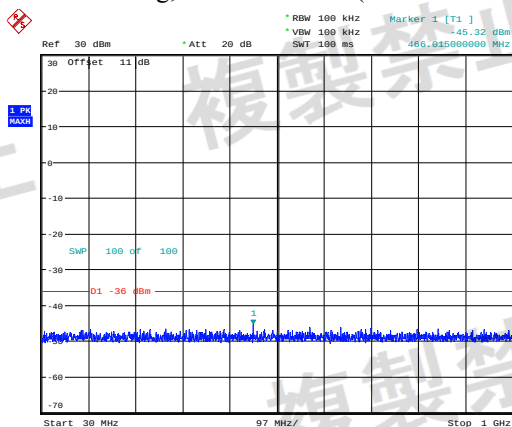
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:23:06

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



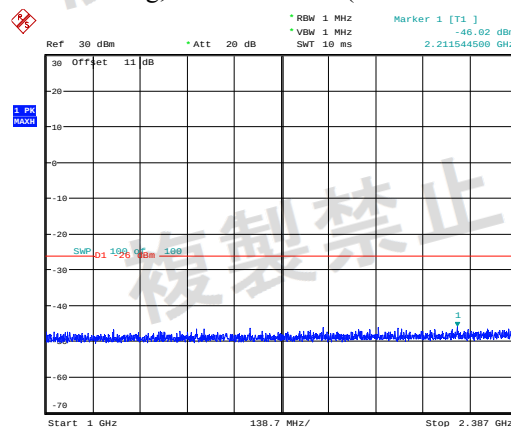
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:23:39

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



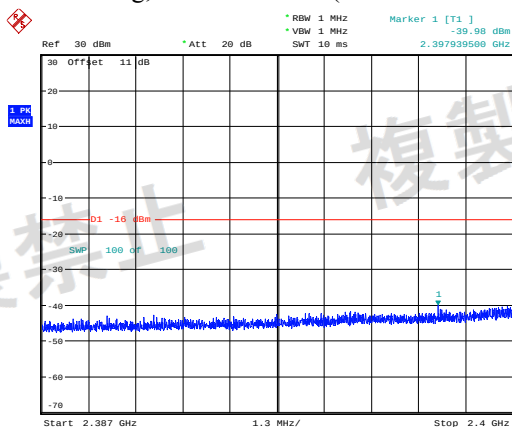
ProjectNo.:2602T57987E-RF Tester:Rini Yan
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802.11g, Middle Channel(1GHz~2.387GHz)



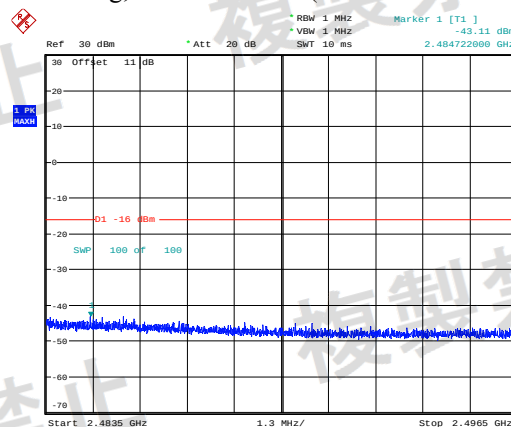
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:25:06

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



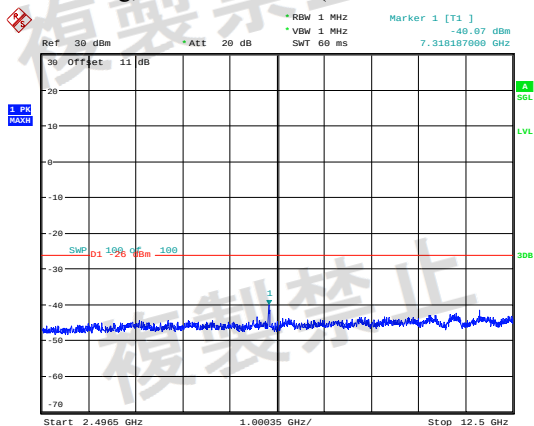
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802.11g, Middle Channel(2.4835GHz~2.4965GHz)



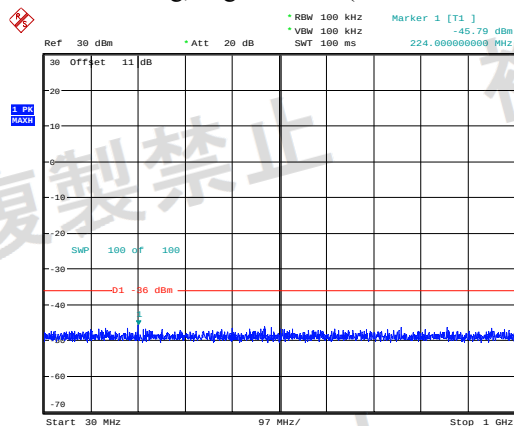
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:25:37

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



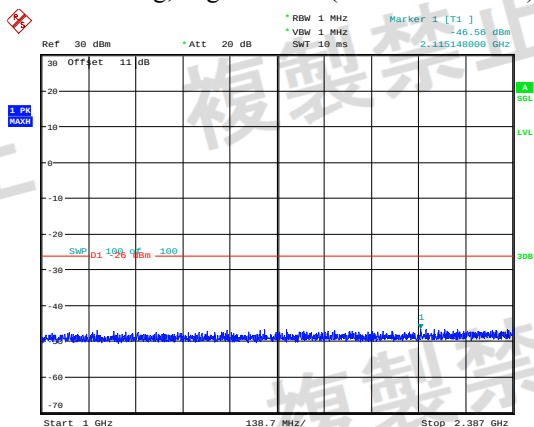
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:26:11

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



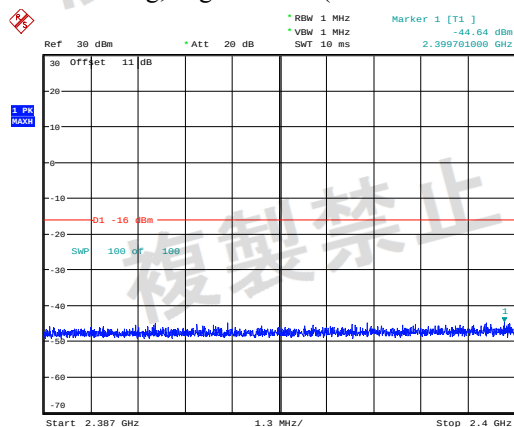
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:27:52

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



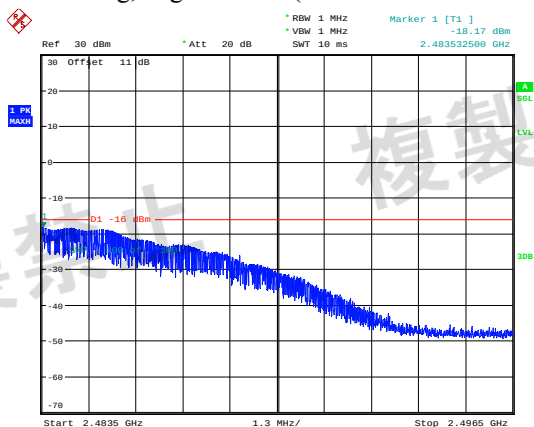
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:28:13

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



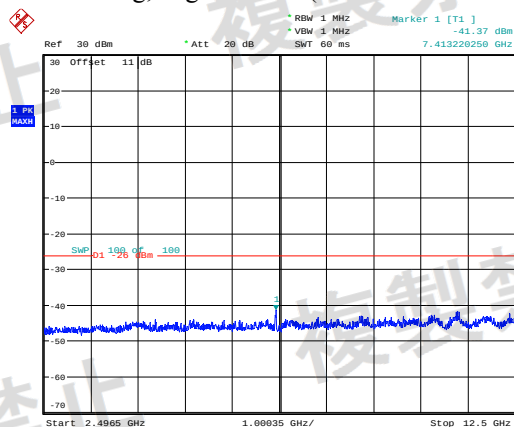
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:28:29

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



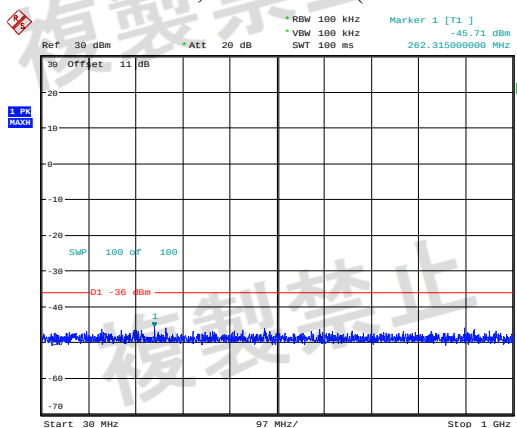
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802.11g, High Channel(2.4965GHz~12.5GHz)



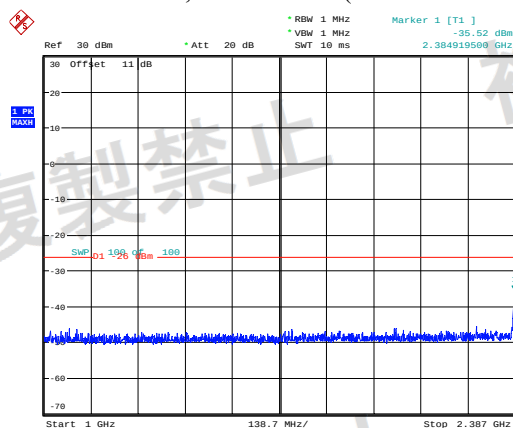
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:29:20

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



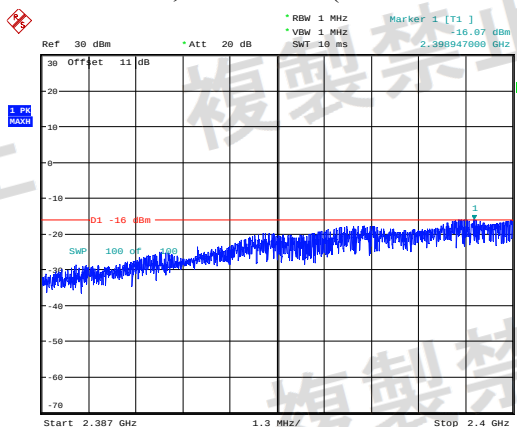
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:38:36

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



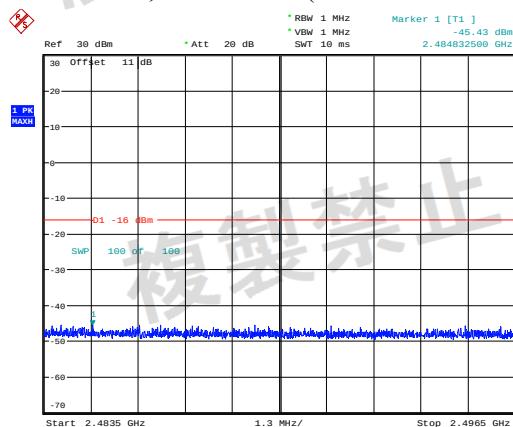
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Date: 28.MAY.2026 14:38:54

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



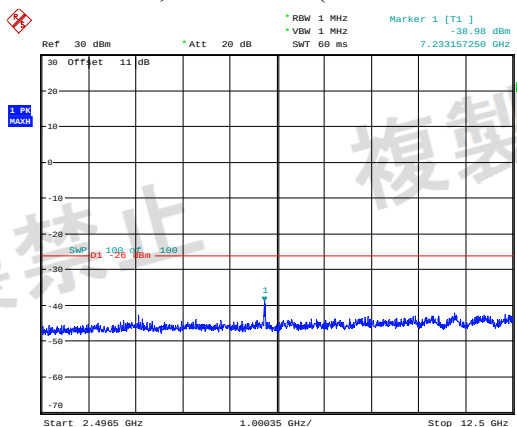
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:31:10

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



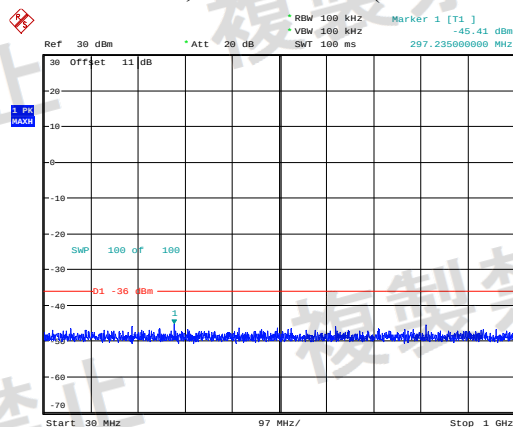
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:31:27

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



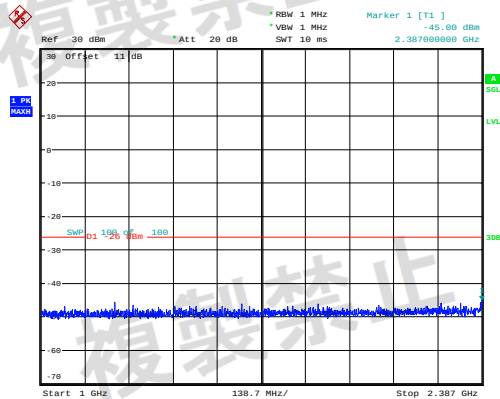
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:32:02

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



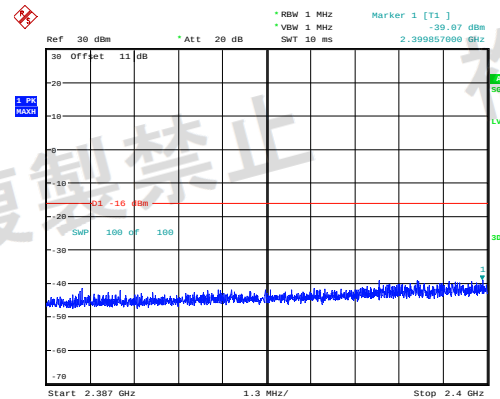
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Date: 28.MAY.2026 14:32:47

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



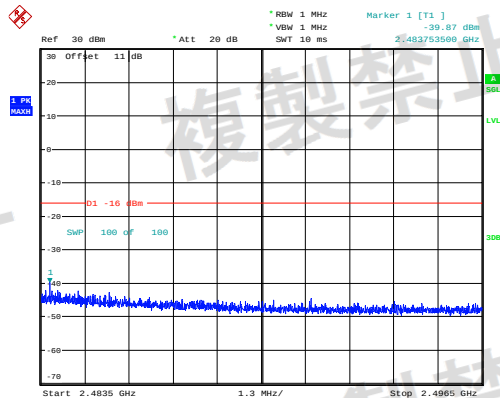
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:33:06

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



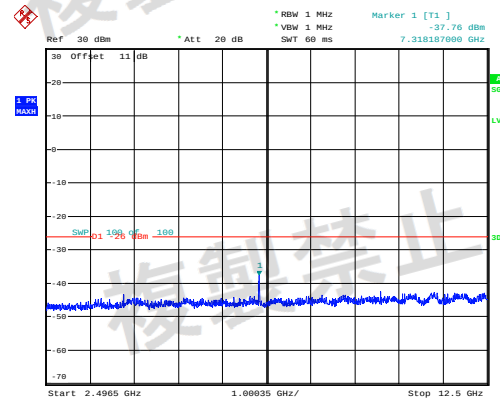
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:33:21

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



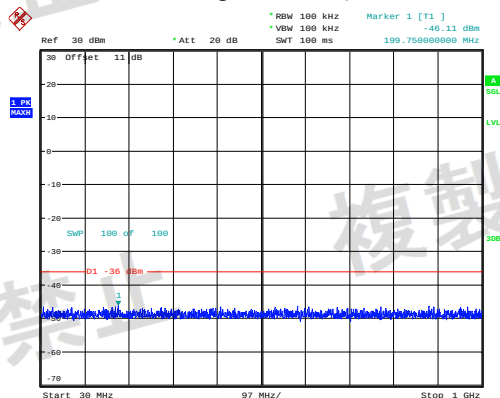
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Date: 28.MAY.2026 14:33:36

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



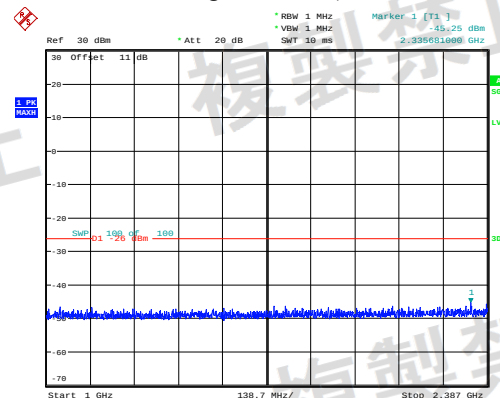
ProjectNo.:2602T57987E-RF Tester:Rini Yan
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802.11n20, High Channel(30MHz~1GHz)



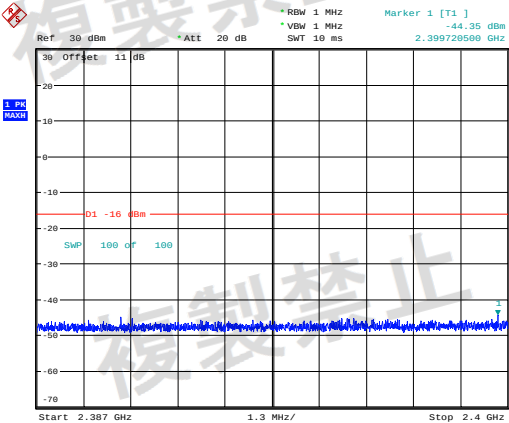
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Date: 28.MAY.2026 14:35:04

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



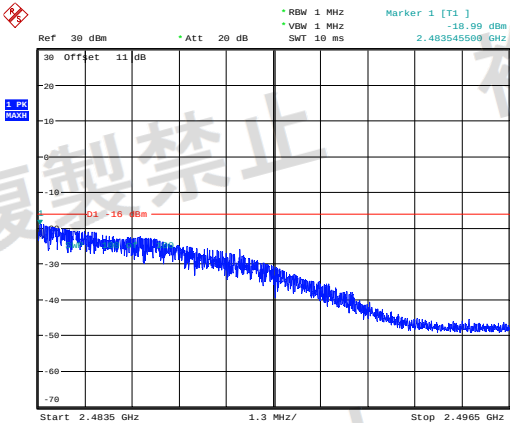
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:35:22

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



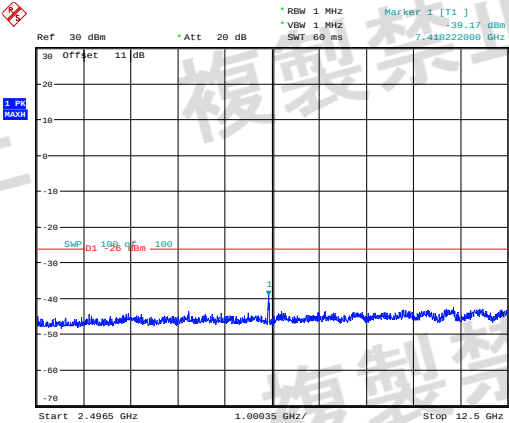
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:35:38

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



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:35:55

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



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:36:29

4 - ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE

Limit

- ≤ 10 mW/MHz (OFDM/DSSS for bandwidth ≤ 26 MHz)
- ≤ 5 mW/MHz (OFDM for bandwidth ≤ 40 MHz)

The Output Power Tolerance must be within +20%.

E.i.r.p:

- ≤ 12.14 dBm/MHz (OFDM/DSSS for bandwidth ≤ 26 MHz)
- ≤ 9.13 dBm/MHz (OFDM for bandwidth ≤ 40 MHz)

Test Procedure

Step 1:

Use the following settings on the spectrum analyser:

- Centre Frequency: The centre frequency of the channel under test.
- Resolution BW: 1 MHz.
- Video BW: 3 MHz.
- Detector mode: Peak.
- Averaging: Off.
- Sweep: Continuous.
- Span: Twice the nominal OBW.

Step 2:

Connect the E.U.T. to the Spectrum Analyzer and switch on the U.U.T.

Step 3:

Adjust the Reference Level of the Spectrum Analyzer so that the peak of the power envelope is between the Reference Level and the Reference Level - 10 dB. This assumes a 10 dB/division setting is used on the spectrum analyser.

Step 4:

Use the marker to find the peak value of the power envelope.

Adjust the centre frequency of the analyser to the marker frequency, resulting in the peak of the power envelope being in the centre of the screen.

Step 5:

Change the Spectrum Analyzer settings as follows:

- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Detector mode: Peak.
- Averaging: Off.
- Sweep: Continuous.
- Span: 0 Hz.

Step 6:

Connect a Power Meter to the "Narrow I.F" output port of the Spectrum Analyzer. The power is set Auto Duty factor.

NOTE: The IF output of the spectrum analyser may be 20 dB or more below the input level of the spectrum analyser. Unless the power meter has adequate sensitivity, a wideband amplifier may be required.

Adjust the Centre Frequency of the spectrum analyser carefully (fine tune) for maximum indication on the power meter.

The level measured by the power meter shall be recorded as level "D".

The maximum e.i.r.p. is calculated from the above measured "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.

$$\bullet \text{ PD} = \text{D} + \text{G}$$

The above procedure shall be repeated for each of the frequency channels.

Where the spectrum analyser bandwidth is non-Gaussian, a suitable correction factor shall be determined and applied.

Test Data

Test Result: Compliant, test mode: Transmitting

Test Condition: NV

Mode	Antenna gain (dBi)	Declared power (mW/MHz)
802.11b	2	3.5
802.11g	2	1.5
802.11n20	2	1.5

Mode	Channel	Antenna output power (dBm/MHz)	Antenna output power(mW/MHz)		Antenna output tolerance(%)		EIRP (dBm/MHz)		Verdict
			Result	Limit	Result	Limit	Result	Limit	
802.11b	Low	5.41	3.475	≤ 10	-0.71	≤ 20	7.41	≤ 12.14	Pass
	Middle	4.24	2.655	≤ 10	-24.14	≤ 20	6.24	≤ 12.14	Pass
	High	3.68	2.333	≤ 10	-33.34	≤ 20	5.68	≤ 12.14	Pass
802.11g	Low	1.75	1.496	≤ 10	-0.27	≤ 20	3.75	≤ 12.14	Pass
	Middle	1.66	1.466	≤ 10	-2.27	≤ 20	3.66	≤ 12.14	Pass
	High	0.52	1.127	≤ 10	-24.87	≤ 20	2.52	≤ 12.14	Pass
802.11n20	Low	1.53	1.422	≤ 10	-5.20	≤ 20	3.53	≤ 12.14	Pass
	Middle	1.78	1.507	≤ 10	0.47	≤ 20	3.78	≤ 12.14	Pass
	High	0.70	1.175	≤ 10	-21.67	≤ 20	2.70	≤ 12.14	Pass

Note:

Antenna output power(mW/MHz) = $10^{[\text{Antenna output power(dBm/MHz)} / 10]}$

Antenna output power tolerance(%) = (Antenna output power - Declared power) / Declared power * 100

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

5 - 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 Result: Compliant, please see the below tables and plots

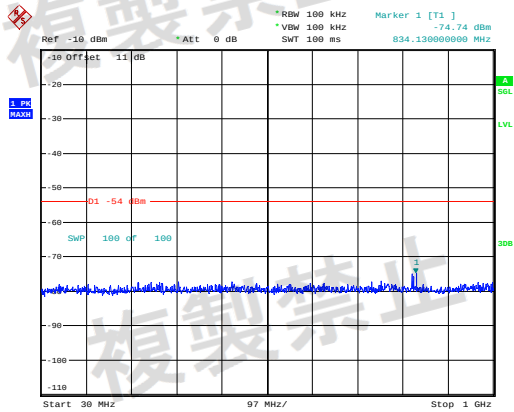
Test Mode: Receiving

Test Condition: NV

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	834.13	-74.74	0.034	4	Pass
		Band II (1MHz)	1000	12500	11304	-63.46	0.451	20	Pass
	Middle	Band I (100kHz)	30	1000	834.13	-75.79	0.026	4	Pass
		Band II (1MHz)	1000	12500	10786.5	-63.98	0.400	20	Pass
	High	Band I (100kHz)	30	1000	286.08	-76.20	0.024	4	Pass
		Band II (1MHz)	1000	12500	11982.5	-63.75	0.422	20	Pass
802.11g	Low	Band I (100kHz)	30	1000	825.4	-73.42	0.045	4	Pass
		Band II (1MHz)	1000	12500	11223.5	-63.74	0.423	20	Pass
	Middle	Band I (100kHz)	30	1000	834.13	-72.33	0.058	4	Pass
		Band II (1MHz)	1000	12500	11269.5	-63.63	0.434	20	Pass
	High	Band I (100kHz)	30	1000	994.18	-76.26	0.024	4	Pass
		Band II (1MHz)	1000	12500	11235	-62.87	0.516	20	Pass
802.11n20	Low	Band I (100kHz)	30	1000	864.2	-76.52	0.022	4	Pass
		Band II (1MHz)	1000	12500	11258	-63.23	0.475	20	Pass
	Middle	Band I (100kHz)	30	1000	836.07	-72.57	0.055	4	Pass
		Band II (1MHz)	1000	12500	11235	-63.38	0.459	20	Pass
	High	Band I (100kHz)	30	1000	975.75	-76.63	0.022	4	Pass
		Band II (1MHz)	1000	12500	1759	-53.50	4.467	20	Pass

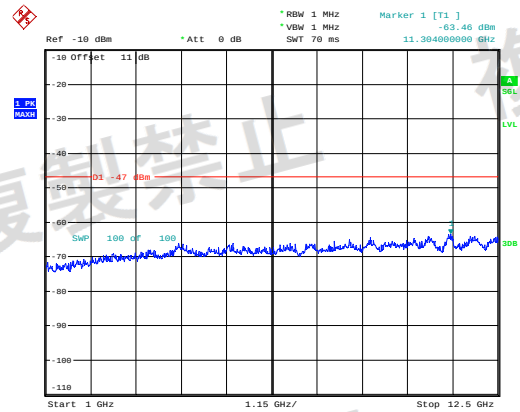
Test Condition: NV

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



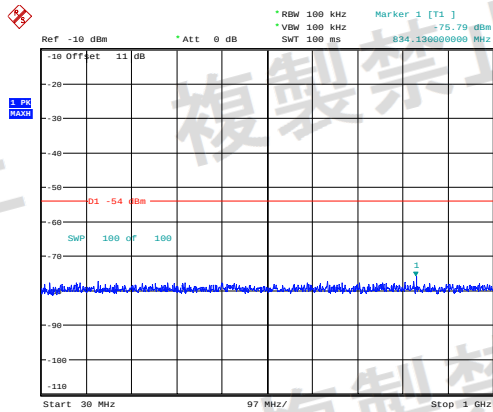
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:53:58

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



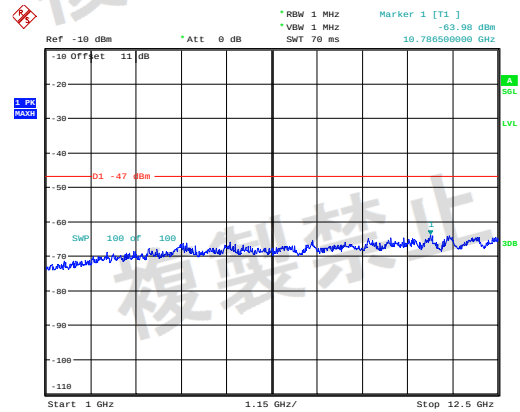
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:54:29

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



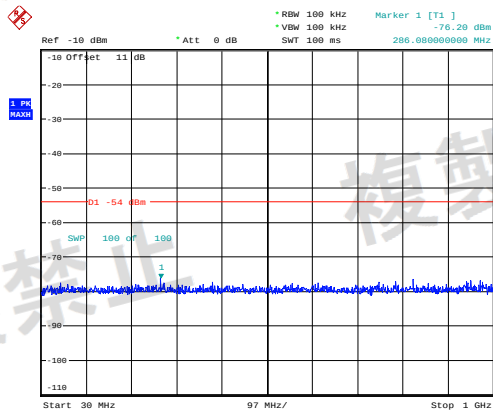
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802.11b, Middle Channel(1GHz~12.5GHz)



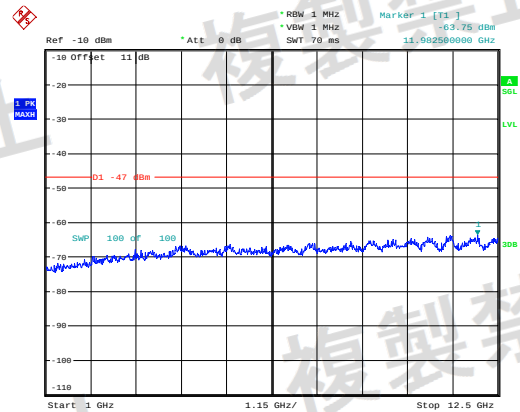
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Date: 28.MAY.2026 14:55:31

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



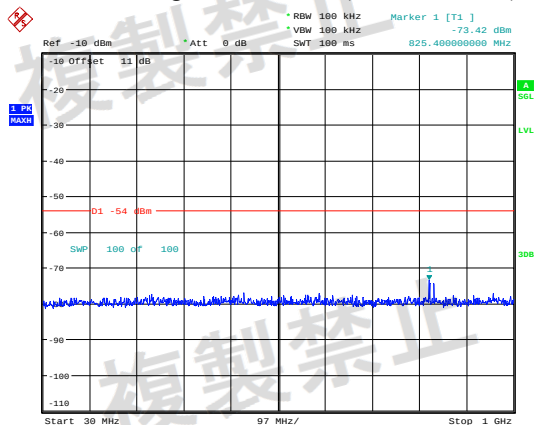
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Date: 28.MAY.2026 14:55:53

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



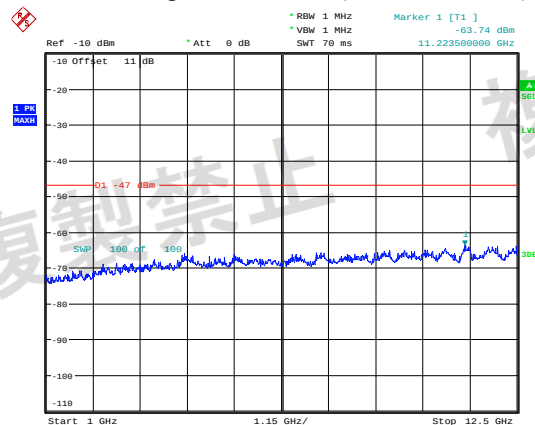
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Date: 28.MAY.2026 14:56:25

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



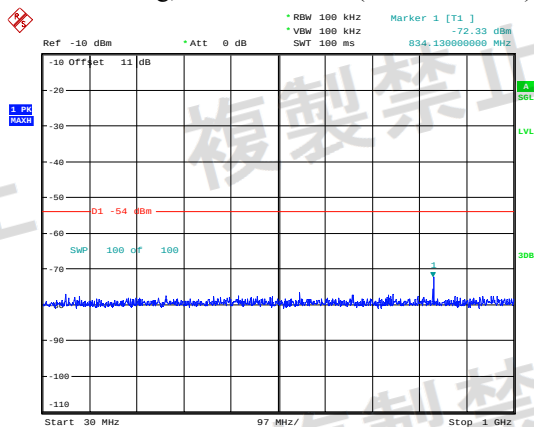
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:56:52

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



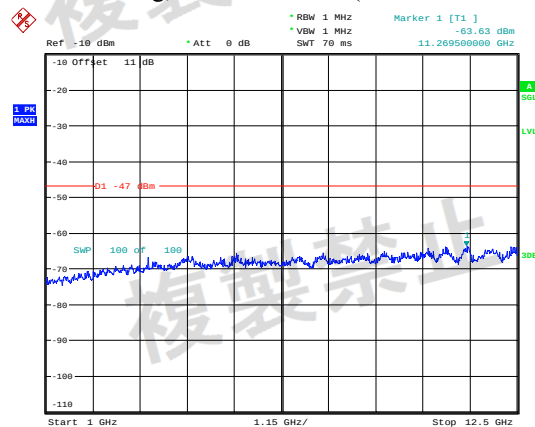
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 14:57:25

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



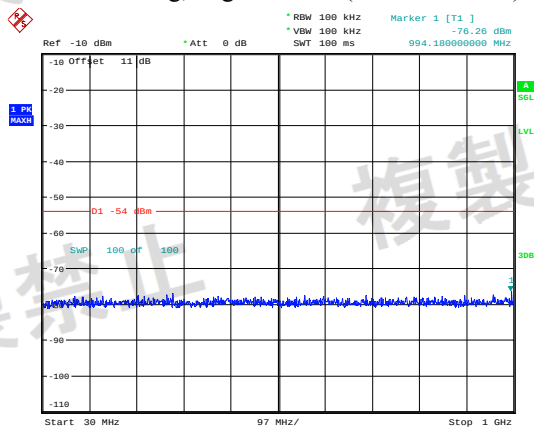
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802.11g, Middle Channel(1GHz~12.5GHz)



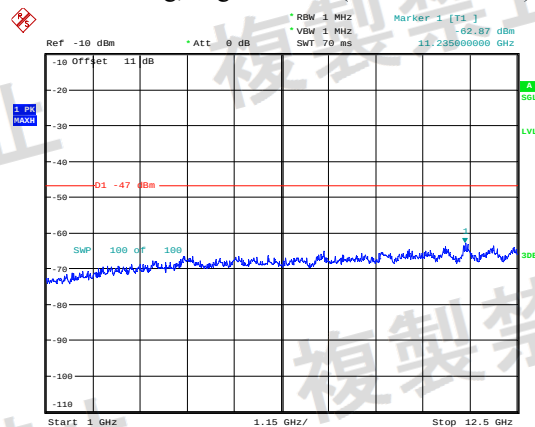
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Date: 28.MAY.2026 14:58:22

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



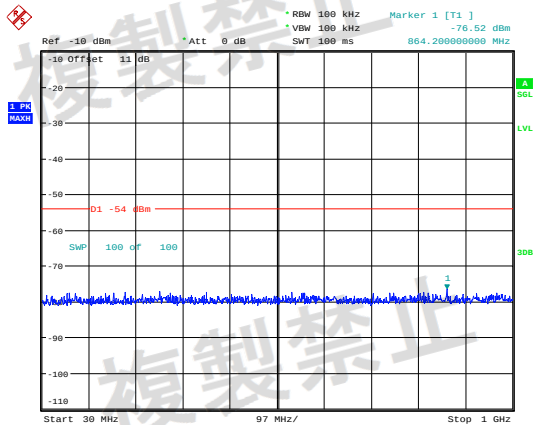
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802.11g, High Channel(1GHz~12.5GHz)



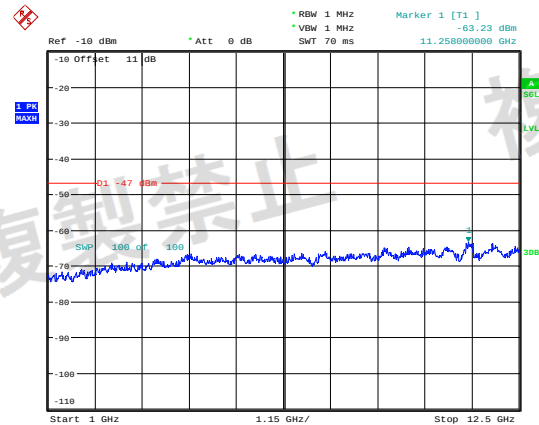
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Date: 28.MAY.2026 14:59:21

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



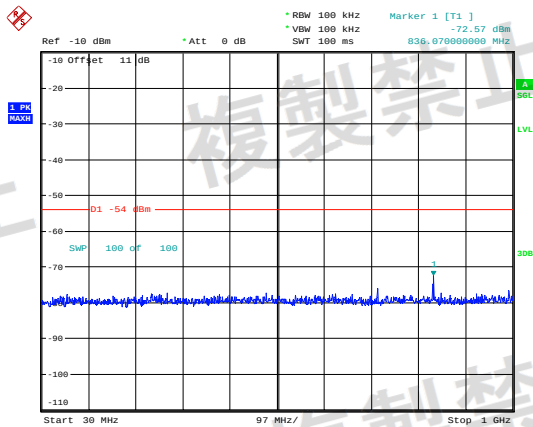
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Date: 28.MAY.2026 14:59:53

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



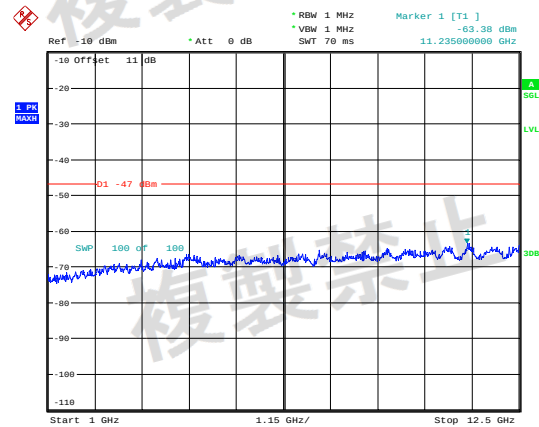
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 15:00:28

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



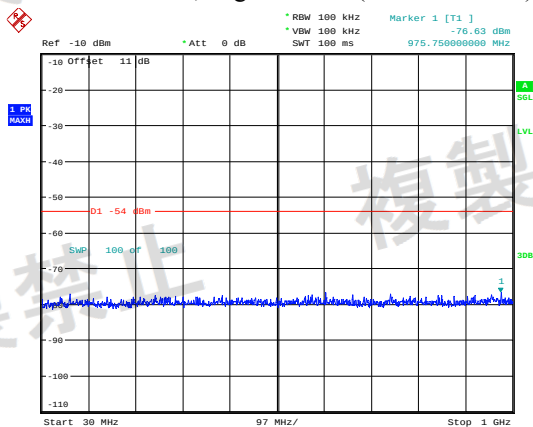
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Date: 28.MAY.2026 15:00:51

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



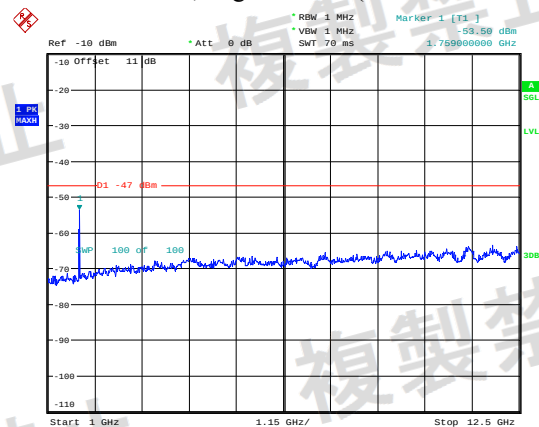
ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 15:01:26

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



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 15:01:49

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



ProjectNo.:2602T57987E-RF Tester:Rini Yan
Date: 28.MAY.2026 15:02:20

12 - INTERFERENCE PREVENTION FUNCTION

Requirement

Article 6-2.3 of Regulations for Enforcement of the radio law

A wireless device used mainly in the same premises to automatically transmit or receive identification codes.

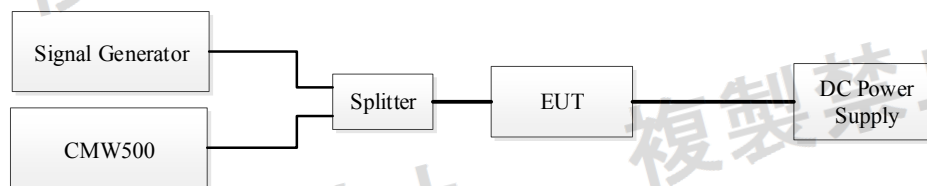
Article 1.8 of MPT Ministerial Notice No. 424 of 1994 (the last revision: Notice No. 374 of Nov. 10, 2023)

48 bits or more. However, for radio of the following frequencies, the requirement is 19 bits or more:

- (1), 5150-5250MHz; 5470-5730MHz; 5925-6425MHz;
- (2), 24.77-25.23GHz;
- (3), 57-66GHz.

Test Procedure

❖ Measurement System Diagram



- ❖ 1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- ❖ 2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Test Data

Item	Result	Requirement	Verdict
Methodology to transmit ID Code:	Automatically	Automatically	Compliant
Methodology to receive ID Code:	Automatically	Automatically	Compliant
Identification Codes (ID Codes) of EUT:	40:45:da:80:0C:ff	/	/
Bits of ID Codes:	48 bits	48 bits or more	Compliant

Plot:

40:45:da:80:0c:ff

Test Result: Compliant

14 - 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 (Except for antenna) was covered by metal shielding case, it can't be opened easily. Please refer the EUT photo.

EXHIBIT A – EUT PHOTOGRAPHS

Please refer to the attachment 2602T57987E-RF-EXP EUT External photos and 2602T57987E-RF-INP EUT Internal photos.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2602T57987E-RF-TSP Test Setup Photos.

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