

TEST REPORT

Applicant: AB Circle Limited

Address: Shimbashi Place 7F, 1-12-9, Shimbashi, Minato-ku Tokyo, 105-0004, Japan

Product Name: Bluetooth Contact Smart Card Reader

Model Name: CIR515A

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: 2602P43532E-RF-07

Report Date: 2026/3/17

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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602P43532E-RF-07	Original Report	2026/3/17

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product Name:	Bluetooth Contact Smart Card Reader
Test Model:	CIR515A
Rated Input Voltage:	3.7Vdc from battery or DC 5V from USB
Serial Number:	3GOO-16 (Configuration 1#: Sample A) 3GOO-5 (Configuration 2#: Sample B)
EUT Received Date:	2026/1/29
EUT Received Status:	Good

Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

Technical Specification

Operation Frequency Range (MHz):	2402-2480
Nominal RF Output Power (Conducted):	BLE 1M: 0.5mW BLE 2M: 0.5mW
Number of TX Chain(s)	1
Number of RX Chain(s)	1
Antenna Gain (dBi)^:	-1.61
Modulation Type:	GFSK
Emission Type	F1D

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	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.

Note: The EUT has two configurations: Configuration 1# and Configuration 2#, the Configuration 1# is used for full test and the Configuration 2# only is used for output power check.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode, which was provided by manufacturer. 40 channels are provided as below table:

Channel	Frequency(MHz)
0	2402
1	2404
...	...
...	...
19	2440
...	...
...	...
38	2478
39	2480

For lowest, middle and highest channel, EUT was tested with channel 0, 19 and 39.

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

NV: Normal Voltage 3.7V_{DC}

LV: Low Voltage 3.33V_{DC}

HV: High Voltage 4.07V_{DC}

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

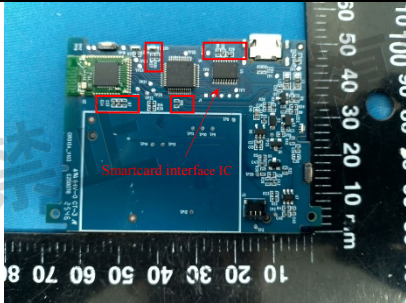
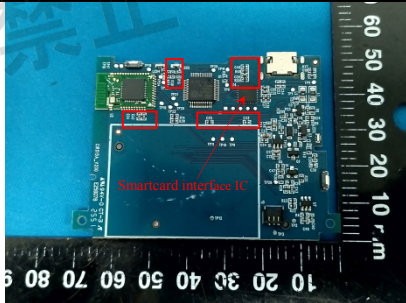
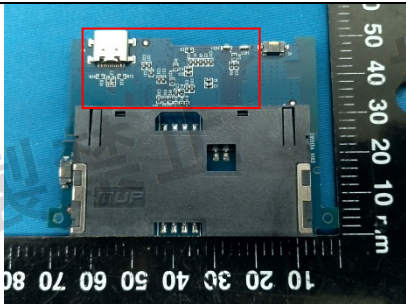
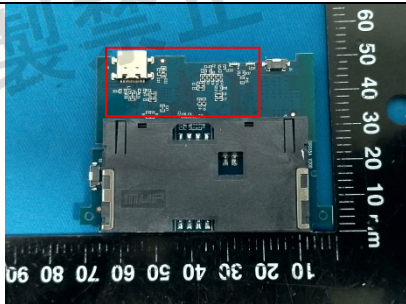
Voltage Condition	Input(V _{DC})	RF System Voltage(V _{DC})
NV	3.7	3.3
LV	3.33	3.3
HV	4.07	3.3

Description of Differences between two Configurations:

Configuration A (Sample A): PCB CIR515A_V103

Configuration B (Sample B): PCB CIR515A_V200

The differences are as follows:

	Configuration A (Sample A)	Configuration B (Sample B)
Smartcard interface IC	STMicroelectronics ST8024	mCore M2535
Smartcard interface related circuit		
		

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

The 'nRF Connect for Desktop[▲]' command was used during test, which was provided by manufacturer. The maximum power level was configured by the software as below table:

Mode	Channel	Frequency (MHz)	Power level
BLE_1M	Low	2402	10
	Middle	2440	10
	High	2480	10
BLE_2M	Low	2402	10
	Middle	2440	10
	High	2480	10

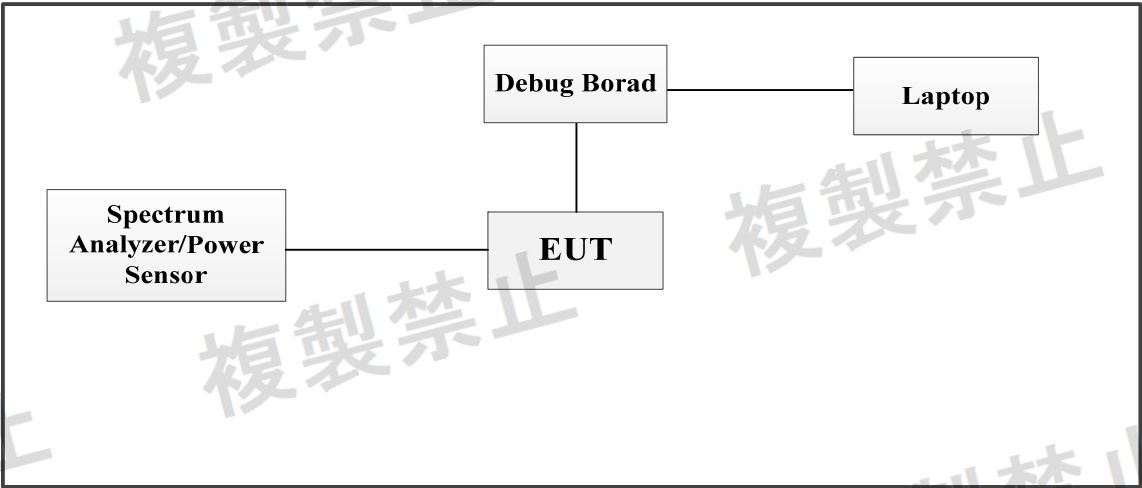
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T430	00331-10000-00001-AA357_01
/	Debug Board	/	/

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
USB Cable	NO	NO	1	Debug Board	Laptop
Serial Cable	NO	NO	0.2	EUT	Debug Board

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	Spectrum Analyzer	FSU 26	200160/026	2025/7/28	2026/7/27	BACL Metrology	C
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2025/6/11	2026/6/10	BACL Metrology	C
Mini-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2025/2/25	2026/2/24	BACL(DG)	D
				2026/2/24	2027/2/23		
TRILITHIC	Coaxial Step Attenuator	RSA-2570D-SMA	T200537364	2025/12/5	2026/12/4	BACL(DG)	D
R&S	Wideband Radio Communication Tester	CMW500	147473	2025/7/28	2026/7/27	BACL Metrology	C
Agilent	MXG Vector Signal Generator	N5182A	MY49060274	2025/7/29	2026/7/28	BACL Metrology	C
All-sun ^{Note*}	Clamp Meter	EM305A	8348897	2025/8/18	2026/8/17	BACL Metrology	C
TDK-Lambda ^{Note*}	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A	N/A	N/A

*** 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)

Note*: The equipment only for power voltage deviation checking.

Test Environmental Conditions

Temperature:	23.1~23.5℃
Relative Humidity:	60%
ATM Pressure:	101.0~101.5kPa
Tester:	Rini Yan
Test Date:	2026/2/5~2026/3/12

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

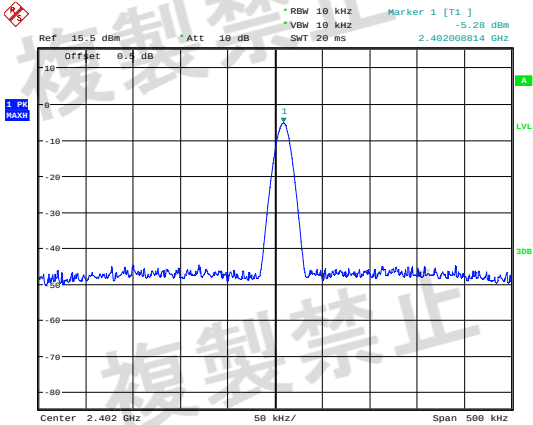
Mode	Test Condition	Channel	Test Frequency (MHz)	Measured Frequency (MHz)	Result (ppm)	Limit (ppm)
Single Carrier	NV	Low	2402	2402.008814	3.67	± 50
		Middle	2440	2440.008814	3.61	
		High	2480	2480.008814	3.55	

Note:

$$\text{Result} = (\text{Measured Frequency} - \text{Test Frequency}) / \text{Test Frequency} * 10^6$$

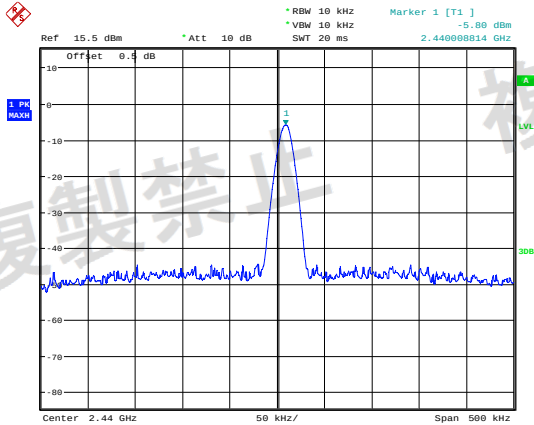
Please refer to the plots for normal voltage test.

Low Channel



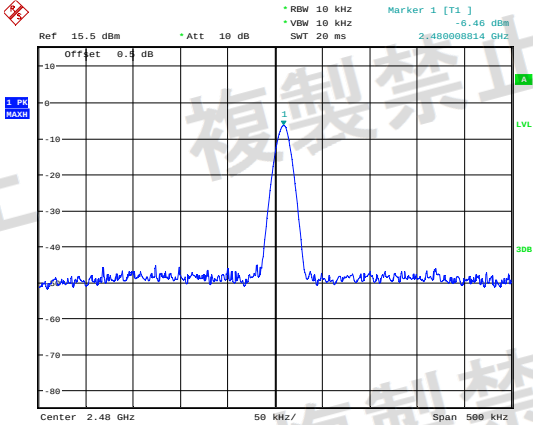
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Date: 5.FEB.2026 13:06:09

Middle Channel



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Date: 5.FEB.2026 13:06:43

High Channel



ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:07:07

2 - OCCUPIED BANDWIDTH

Limit

- Occupied bandwidth: ≤ 26 MHz

Test Procedure

- Setting of SA is following as: RB: 30 kHz/VB: 30 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 occupied bandwidth to measure occupied bandwidth.

Test Data

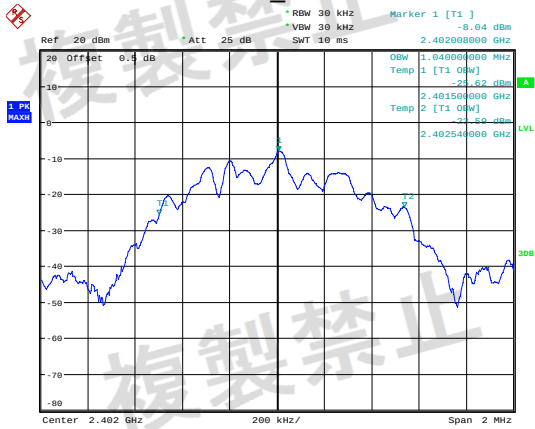
Test Result: Compliant

Test Mode: Transmitting

Test Condition	Occupied bandwidth (MHz)				
	Mode	Low Channel	Middle Channel	High Channel	Limit
NV	BLE 1M	1.040	1.044	1.044	≤ 26
	BLE 2M	2.048	2.048	2.056	≤ 26

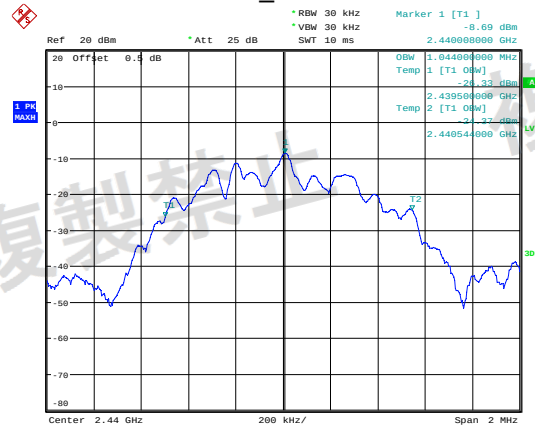
Please refer to the plots for normal voltage test.

BLE 1M_Low Channel



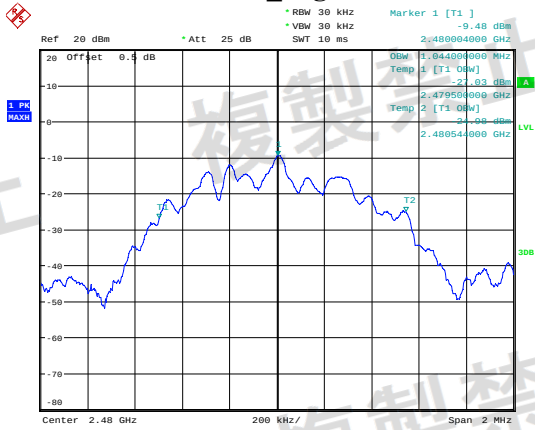
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BLE 1M_Middle Channel



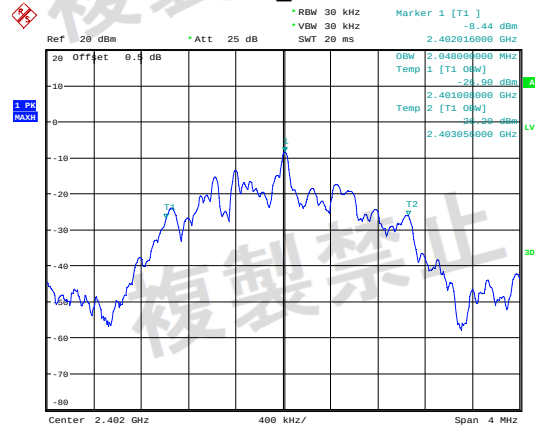
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BLE 1M_High Channel



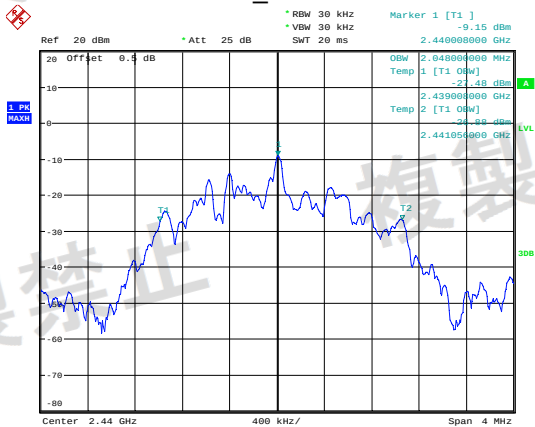
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BLE 2M_Low Channel



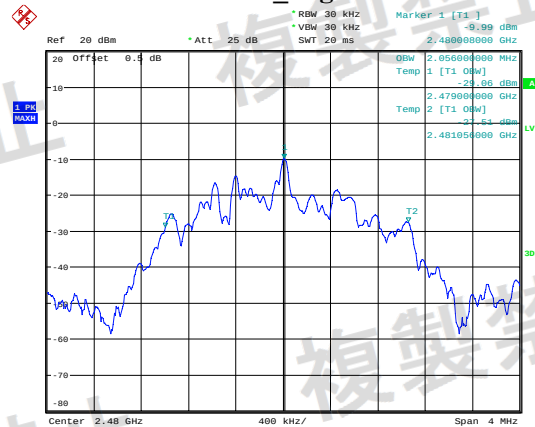
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BLE 2M_Middle Channel



ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:28:34

BLE 2M_High Channel



ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:29:11

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	Mode	Channel	Test Band (RBW)	Frequency Range		Max. Emission Located (GHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)
				Start (GHz)	Stop (GHz)				
NV	BLE 1M	Low	Band I (100kHz)	0.03	1	0.435	-40.95	0.0804	0.25
			Band II (1MHz)	1	2.387	2.276	-52.36	0.0058	2.5
			Band III (1MHz)	2.387	2.4	2.4	-27.44	1.8030	25
			Band IV (1MHz)	2.4835	2.4965	2.484	-52.73	0.0053	25
			Band V (1MHz)	2.4965	12.5	2.537	-43.98	0.0400	2.5
		Middle	Band I (100kHz)	0.03	1	0.435	-41.52	0.0705	0.25
			Band II (1MHz)	1	2.387	2.315	-51.75	0.0067	2.5
			Band III (1MHz)	2.387	2.4	2.393	-53.60	0.0044	25
			Band IV (1MHz)	2.4835	2.4965	2.487	-53.48	0.0045	25
			Band V (1MHz)	2.4965	12.5	3.177	-51.08	0.0078	2.5
		High	Band I (100kHz)	0.03	1	0.435	-41.99	0.0632	0.25
			Band II (1MHz)	1	2.387	2.354	-52.07	0.0062	2.5
			Band III (1MHz)	2.387	2.4	2.398	-53.47	0.0045	25
			Band IV (1MHz)	2.4835	2.4965	2.484	-39.17	0.1211	25
			Band V (1MHz)	2.4965	12.5	2.517	-47.46	0.0179	2.5
	BLE 2M	Low	Band I (100kHz)	0.03	1	0.255	-65.70	0.0003	0.25
			Band II (1MHz)	1	2.387	2.387	-53.25	0.0047	2.5
			Band III (1MHz)	2.387	2.4	2.4	-22.59	5.5081	25
			Band IV (1MHz)	2.4835	2.4965	2.487	-53.37	0.0046	25
			Band V (1MHz)	2.4965	12.5	3.177	-51.78	0.0066	2.5
		Middle	Band I (100kHz)	0.03	1	0.48	-65.78	0.0003	0.25
			Band II (1MHz)	1	2.387	2.315	-52.11	0.0062	2.5
			Band III (1MHz)	2.387	2.4	2.396	-53.15	0.0048	25
			Band IV (1MHz)	2.4835	2.4965	2.488	-53.38	0.0046	25
			Band V (1MHz)	2.4965	12.5	2.517	-37.47	0.1791	2.5

		High	Band I (100kHz)	0.03	1	0.176	-65.76	0.0003	0.25
			Band II (1MHz)	1	2.387	2.354	-51.65	0.0068	2.5
			Band III (1MHz)	2.387	2.4	2.398	-52.95	0.0051	25
			Band IV (1MHz)	2.4835	2.4965	2.484	-39.01	0.1256	25
			Band V (1MHz)	2.4965	12.5	12.080	-52.50	0.0056	2.5

Note:

Band I:30MHz ~1000MHz

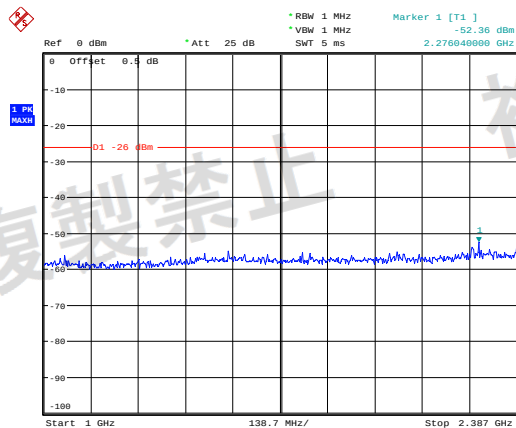
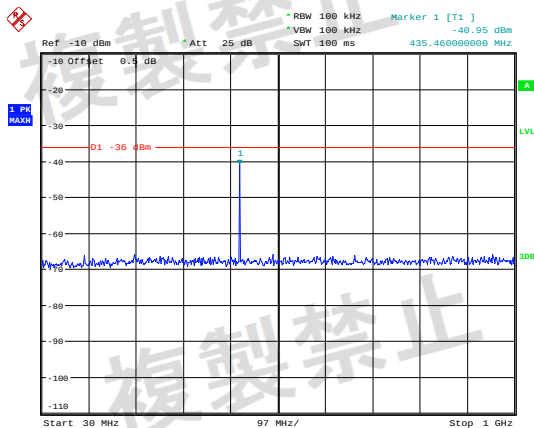
Band II:1000MHz ~2387MHz

Band III:2387MHz ~2400MHz

Band IV:2483.5MHz ~2496.5MHz

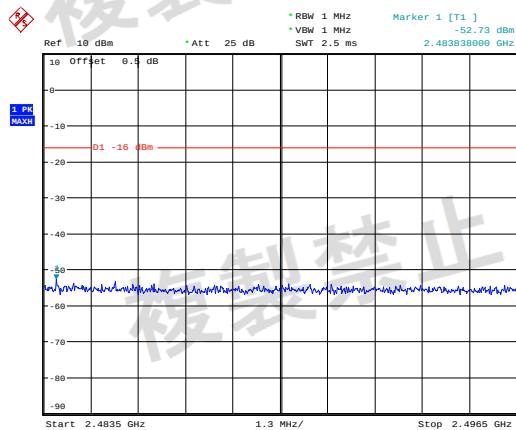
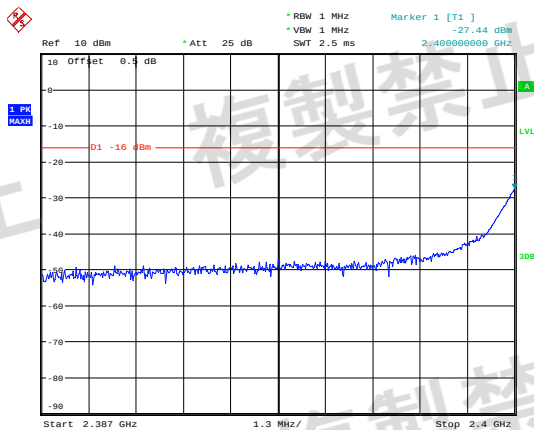
Band V:2496.5MHz~12500MHz

BLE 1M_Low Channel



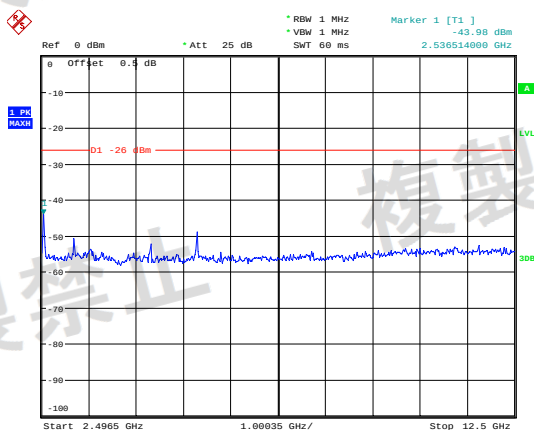
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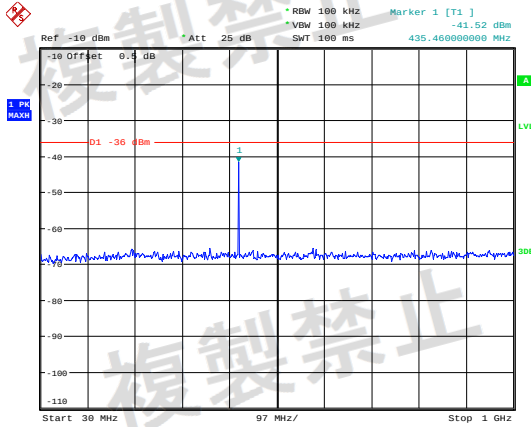
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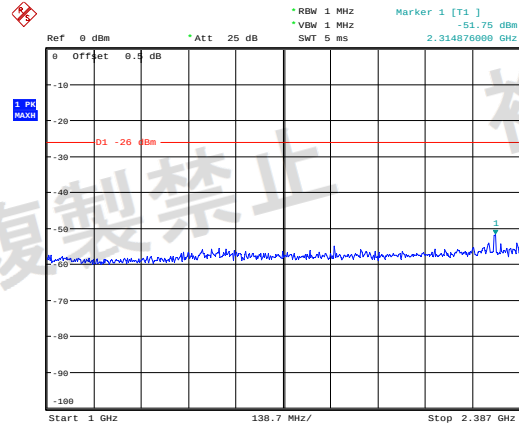


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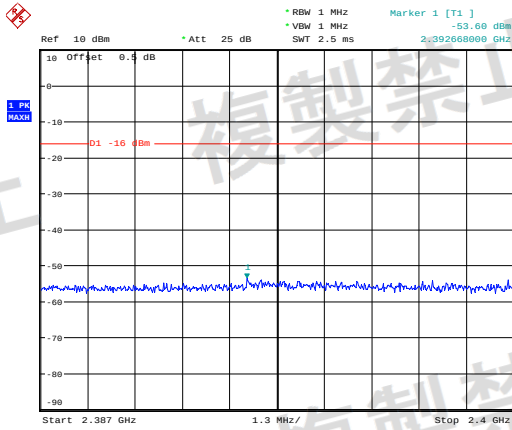
BLE 1M_Middle Channel



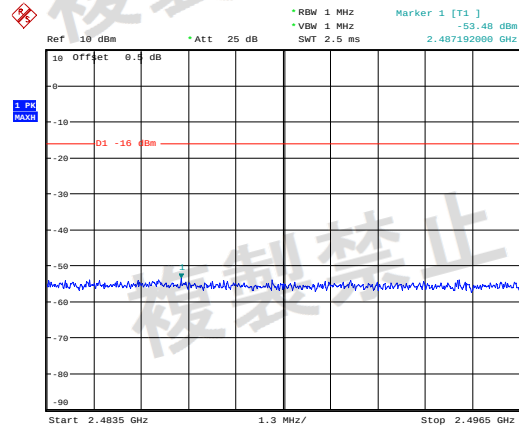
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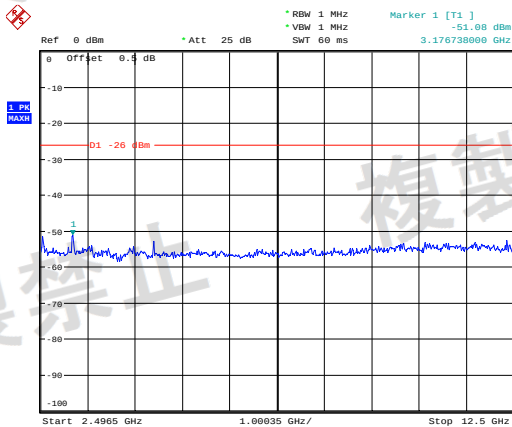
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Date: 5.FEB.2026 13:17:38



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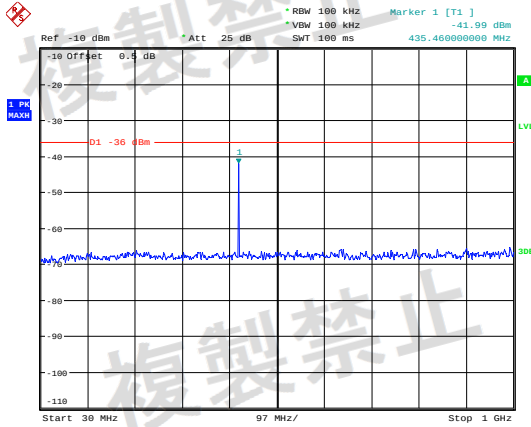


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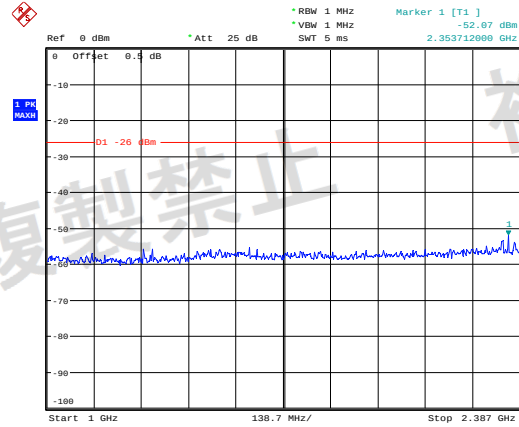


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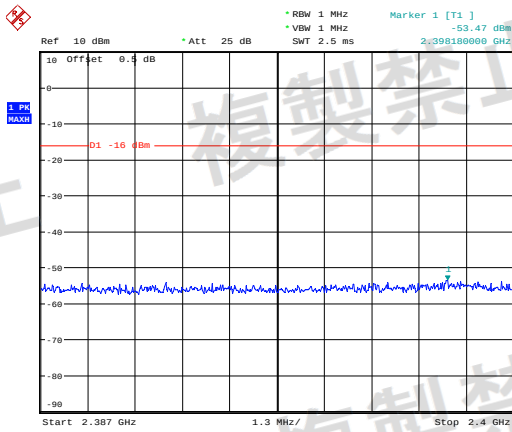
BLE 1M_High Channel



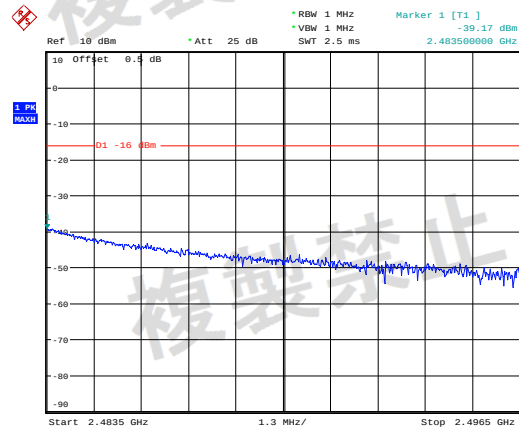
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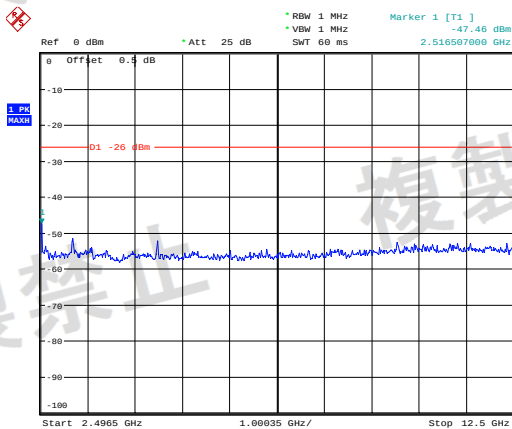
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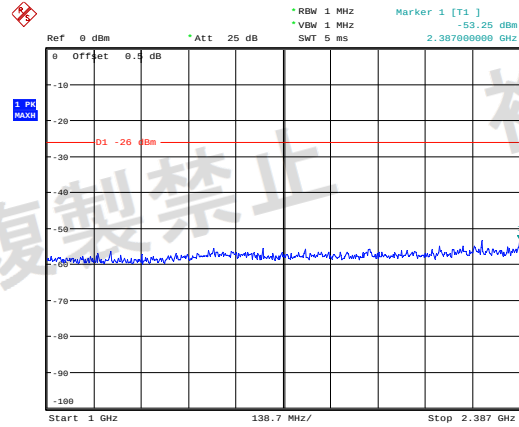
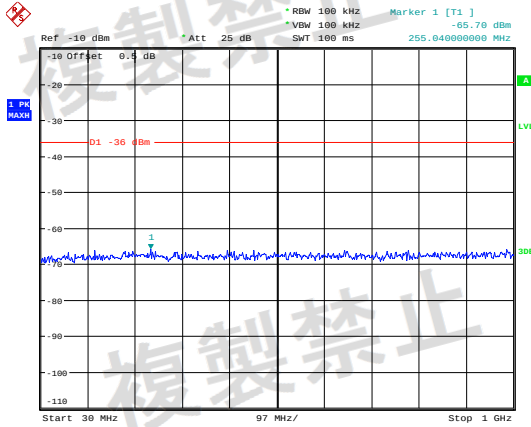


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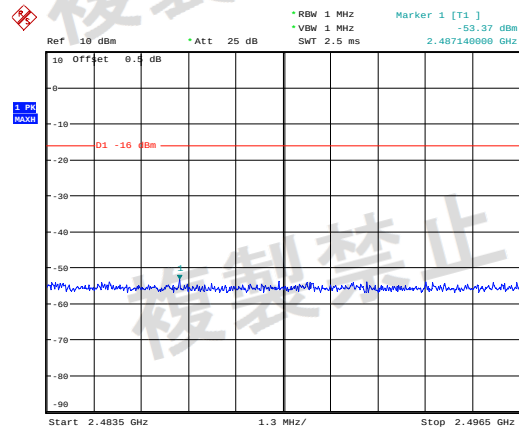
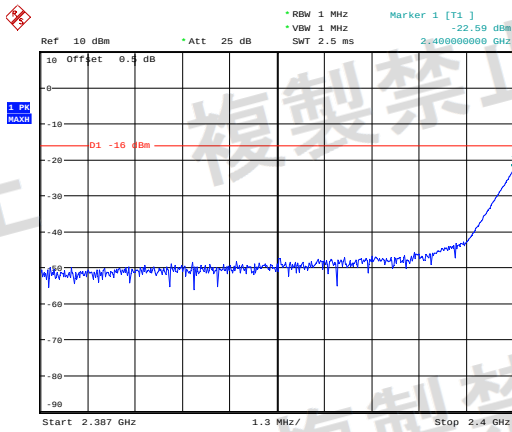
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BLE 2M_Low Channel



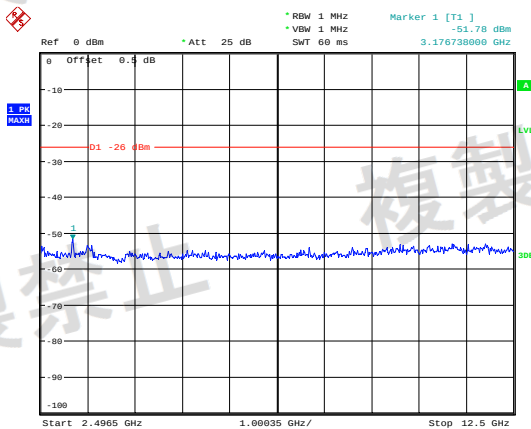
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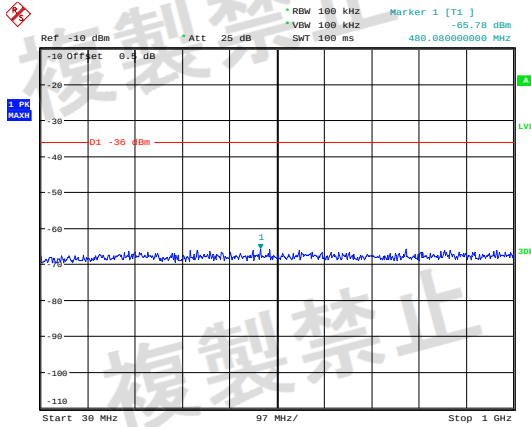
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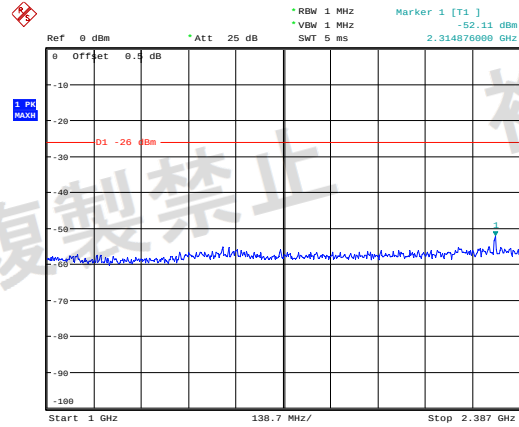


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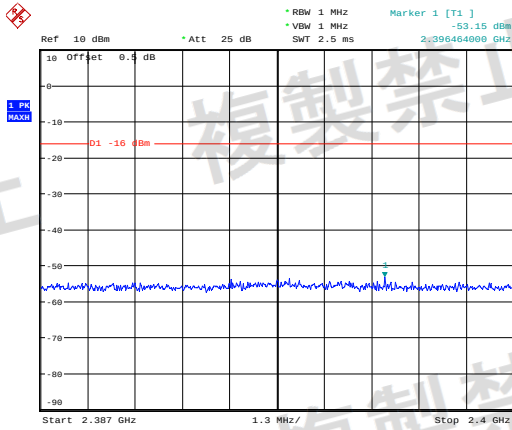
BLE 2M_Middle Channel



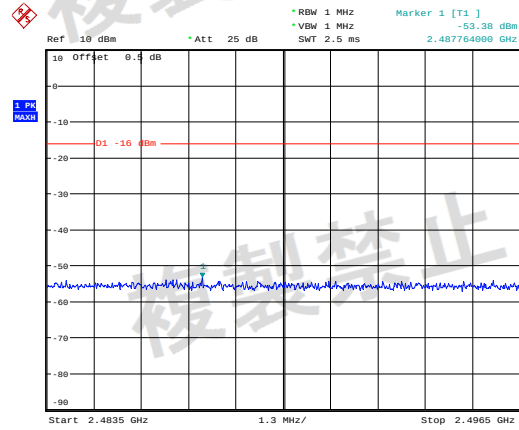
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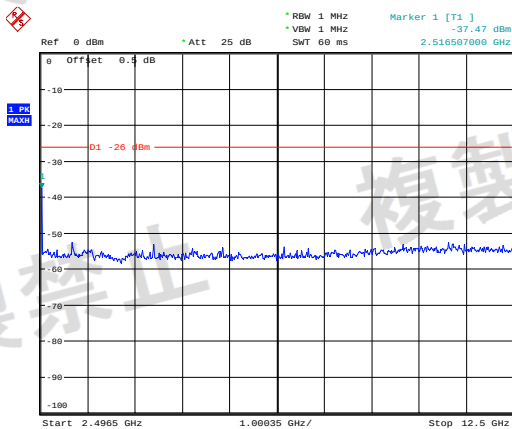
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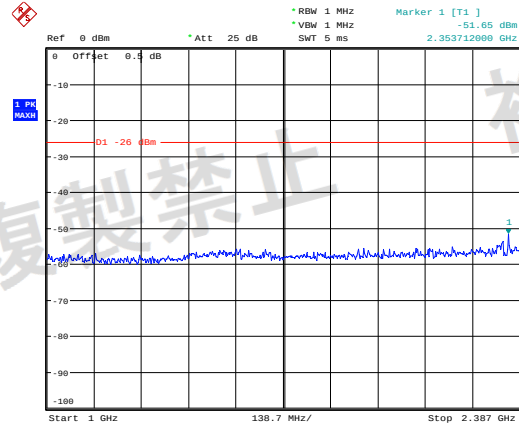
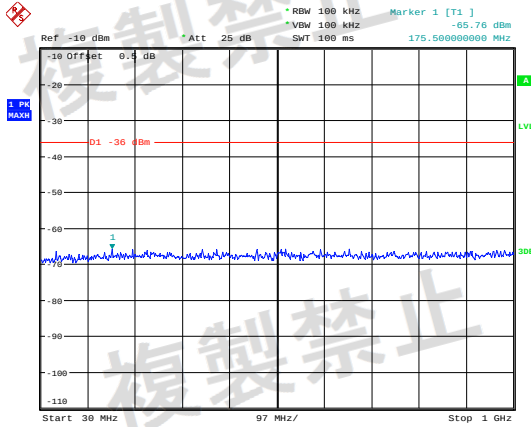


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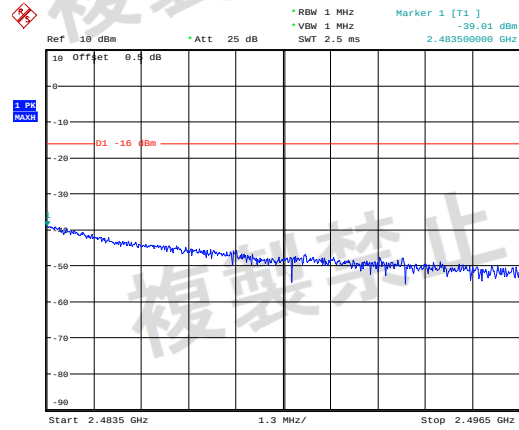
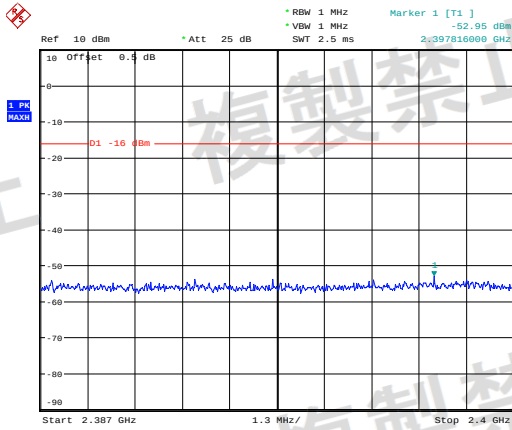
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BLE 2M_High Channel



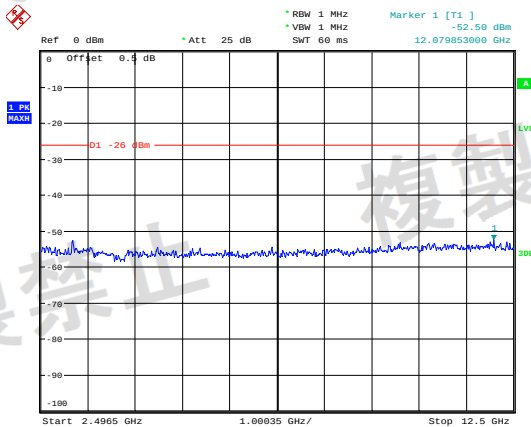
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ProjectNo.:2602P43532E-RF Tester:Rini Yan
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Date: 5.FEB.2026 13:24:41



ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:24:52

4 - ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE

Limit

Antenna output power:

- ≤ 10 mW
- The Output Power Tolerance must be not more than +20%.
- EIRP ≤ 12.14 dBm (other from 2400-2483.5 MHz)

Test Procedure

- Connect the EUT antenna port to Power meter with RF cable;
- Power meter Detector: Average, Auto Duty factor
- Set the EUT Frequency to measure, test mode continuous transmitting.

Test Data

Test Result: Compliant, test mode: Transmitting

Configuration 1#:

Mode	Antenna gain (dBi)	Declared power (mW)
BLE 1M	-1.61	0.5
BLE 2M		0.5

Test Condition	Mode	Channel	Conducted power (dBm)	Antenna output power (mW)		Antenna output tolerance (%)		EIRP (dBm)	
				Result	Limit	Result	Limit	Result	Limit
NV	BLE 1M	Low	-5.20	0.302	≤ 10	-39.60	$\leq +20$	-6.81	≤ 12.14
		Middle	-5.93	0.255		-49.00		-7.54	
		High	-6.57	0.220		-56.00		-8.18	
	BLE 2M	Low	-5.29	0.296	≤ 10	-40.80	$\leq +20$	-6.90	≤ 12.14
		Middle	-5.92	0.256		-48.80		-7.53	
		High	-6.65	0.216		-56.80		-8.26	

Note:

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

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

EIRP(dBm) = Conducted output power(dBm) + Antenna gain.

For Conducted power(dBm), the duty cycle has been taken into account.

Configuration 2#:

Mode	Antenna gain (dBi)	Declared power (mW)
BLE 1M	-1.61	0.5
BLE 2M		0.5

Test Condition	Mode	Channel	Conducted power (dBm)	Antenna output power (mW)		Antenna output tolerance (%)		EIRP (dBm)	
				Result	Limit	Result	Limit	Result	Limit
NV	BLE 1M	Low	-5.40	0.288	≤ 10	-42.40	≤+20	-7.01	≤ 12.14
		Middle	-6.19	0.240		-52.00		-7.80	
		High	-6.88	0.205		-59.00		-8.49	
	BLE 2M	Low	-5.57	0.277	≤ 10	-44.60	≤+20	-7.18	≤ 12.14
		Middle	-6.16	0.242		-51.60		-7.77	
		High	-6.94	0.202		-59.60		-8.55	

Note:

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

Antenna output power tolerance(%) = $(\text{Antenna output power} - \text{Declared power}) / \text{Declared power} * 100\%$

EIRP(dBm) = $\text{Conducted output power(dBm)} + \text{Antenna gain}$.

For Conducted power(dBm), the duty cycle has been taken into account.

Note: The Configuration 2# was used for output power check. By power check, the checked power is closed to the power of the Configuration 1#, and there is hardly much difference.

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 $< 1 \text{ GHz}$
 - RBW: 1MHz, VBW: 1MHz for Frequency $> 1 \text{ GHz}$
 - 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	Mode	Channel	Test Band (RBW)	Frequency Range		Max. Emission Located (GHz)	Result (dBm)	Result (nW)	Limit (nW)
				Start (GHz)	Stop (GHz)				
NV	BLE 1M	Low	Band I (100kHz)	0.03	1	0.241	-69.31	0.117	4
			Band II (1MHz)	1	12.5	3.185	-54.57	3.491	20
		Middle	Band I (100kHz)	0.03	1	0.988	-69.52	0.112	4
			Band II (1MHz)	1	12.5	3.185	-53.69	4.276	20
		High	Band I (100kHz)	0.03	1	0.996	-69.51	0.112	4
			Band II (1MHz)	1	12.5	3.185	-53.81	4.159	20
	BLE 2M	Low	Band I (100kHz)	0.03	1	0.969	-69.47	0.113	4
			Band II (1MHz)	1	12.5	3.162	-54.88	3.251	20
		Middle	Band I (100kHz)	0.03	1	0.42	-69.42	0.114	4
			Band II (1MHz)	1	12.5	3.162	-53.99	3.990	20
		High	Band I (100kHz)	0.03	1	1	-69.34	0.116	4
			Band II (1MHz)	1	12.5	3.162	-52.59	5.508	20

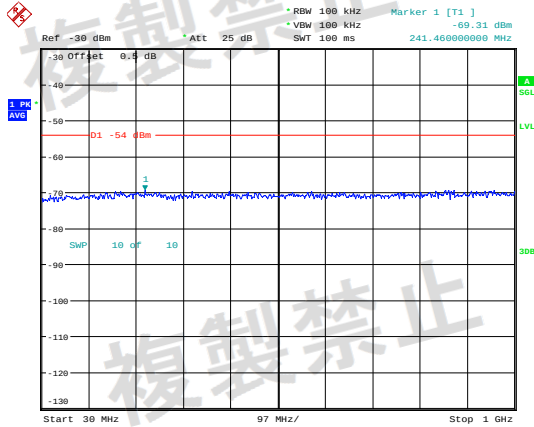
Note:

Band I:30MHz ~1000MHz

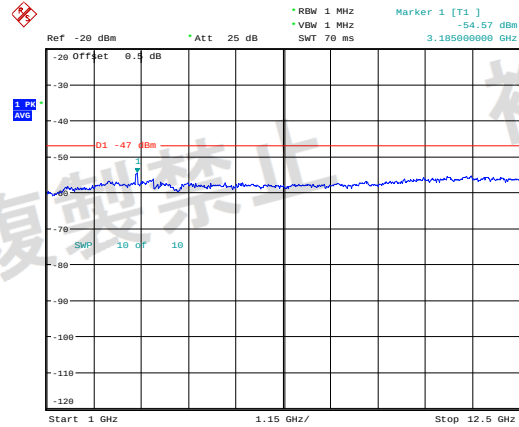
Band II:1000MHz ~12500MHz

Please refer to the below plots for normal voltage test.

BLE 1M_Low Channel

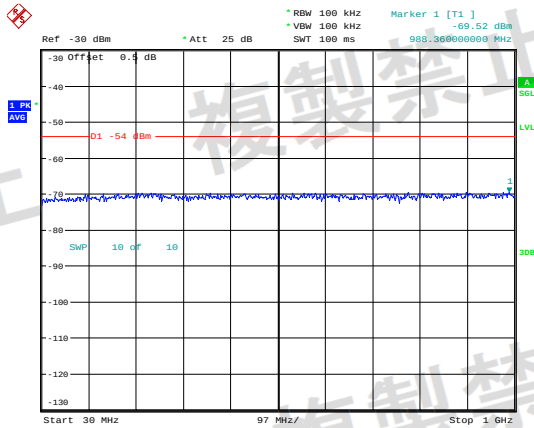


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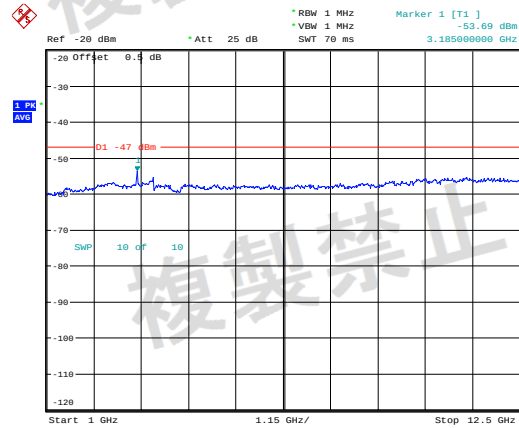


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BLE 1M_Middle Channel

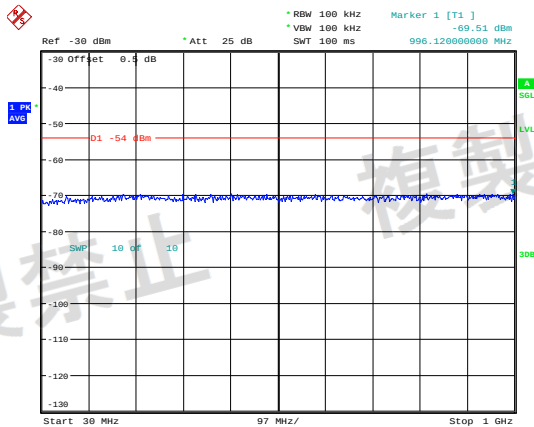


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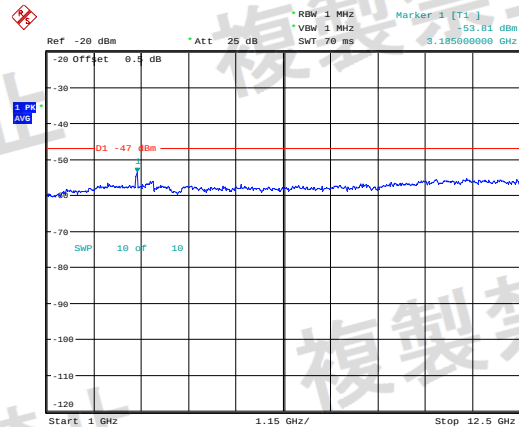


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BLE 1M_High Channel

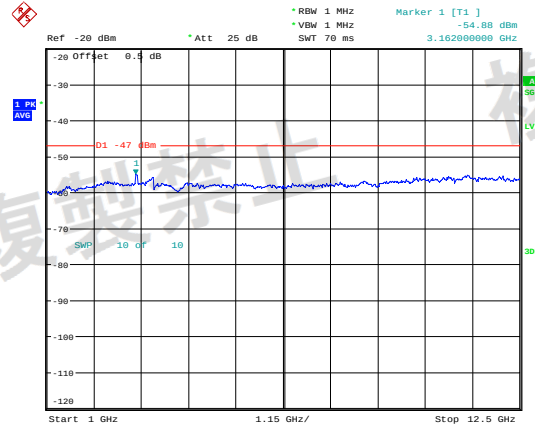
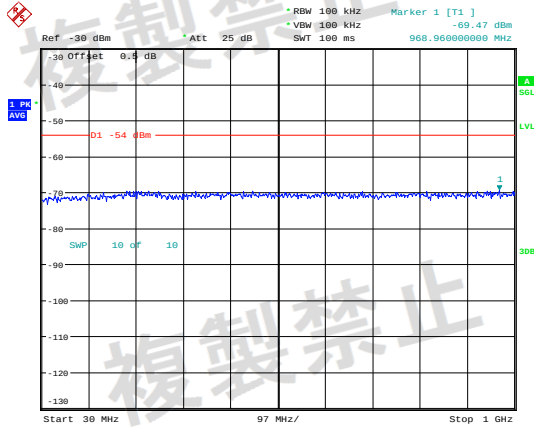


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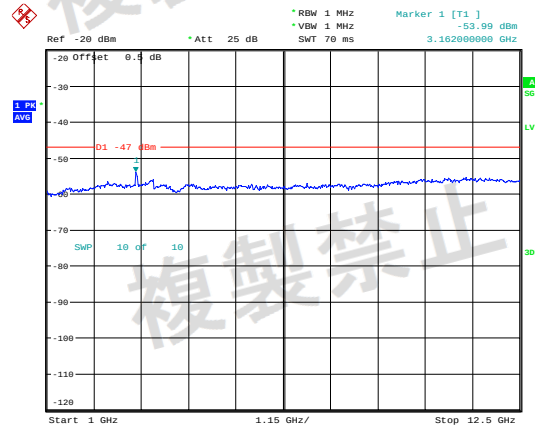
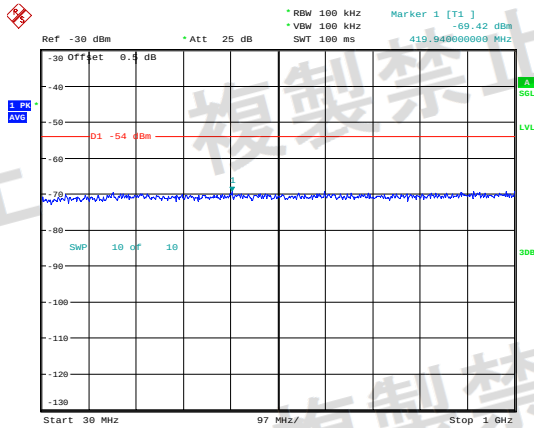
BLE 2M_Low Channel



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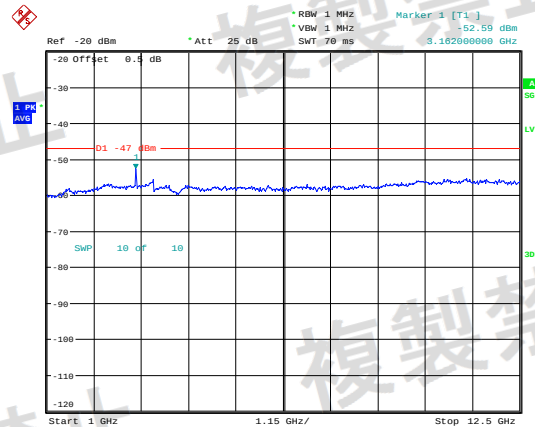
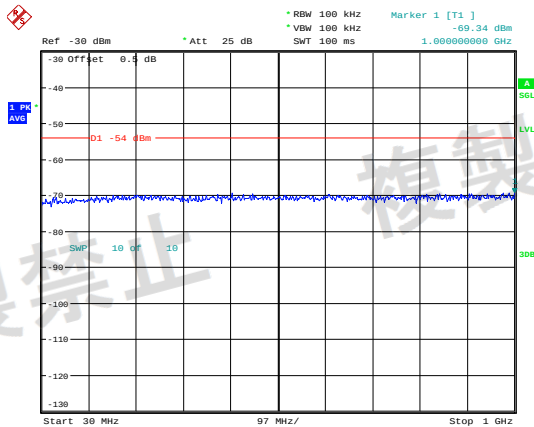
BLE 2M_Middle Channel



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ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:31:54

BLE 2M_High Channel



ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:32:05

ProjectNo.:2602P43532E-RF Tester:Rini Yan
Date: 5.FEB.2026 13:32:11

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.

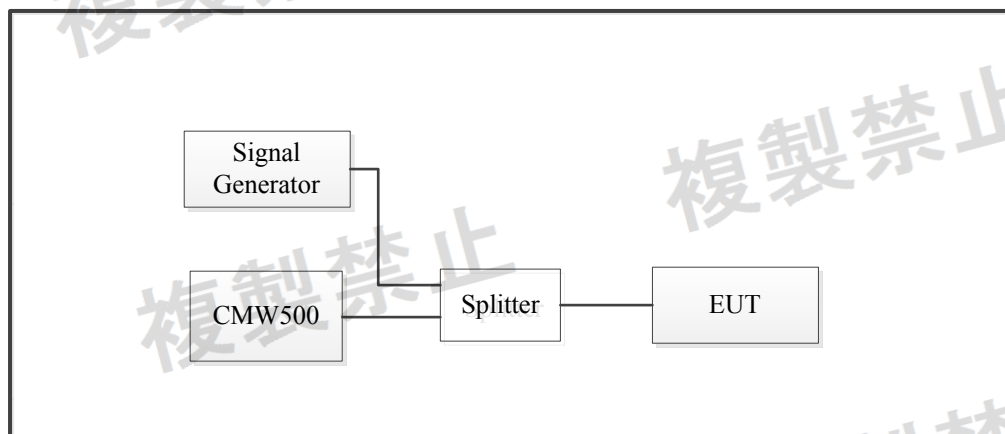
Article 1.8 of MPT Ministerial Notice No. 424 of 1994 (the last revision: Notice No. 374 of Nov. 10, 2023)

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:	FA:EE:1E:09:64:5E	/	/
Bits of ID Codes:	48 bits	48 bits or more	Compliant

Test Result: Good

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 “2602P43532E-RF-EXP” EUT External photos and “2602P43532E-RF-INP” EUT Internal photos.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment “2602P43532E-RF-TSP” Test Setup Photos.

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