

Japan Test Report

Equipment : Fitness Product
Model No. : AA4967, A04967
Brand Name : GARMIN
Applicant : Garmin Corp.
Address : No.68, Zhangshu 2nd Rd., Xizhi Dist., New
Taipei City 221, Taiwan (R.O.C)
Standard : Article 2 Paragraph 1 Item 19
Received Date : Apr. 10, 2025
Tested Date : Apr. 21, 2025

Measurement was conducted by the following test method:
the test method of Ordinance Concerning Technical Regulations Conformity Certification
etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and
Communications notification in Annex "43" of Article 88, Paragraph 1.

We, International Certification Corporation, would like to declare that the tested sample has
been evaluated and in compliance with the requirement of the above standards. The test
results contained in this report refer exclusively to the product. It shall not be reproduced
except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Alex Huang / Supervisor


Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
JR541002AE	Rev. 01	Initial issue	May 28, 2025

Summary of Test Results

Ref. Std. Clause	Description	Result
3.2(2)(3)	Antenna Power	Pass
3.2(4)	Frequency Tolerance	Pass
3.2(6)	Transmitter Spurious Emission	Pass
3.2(7)	Occupied Bandwidth	Pass
3.3(1)	Receiver Emission	Pass
3.4.1	Interference prevention function	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
GARMIN	AA4967	Bike Computer	WIFI, BLE, ANT, NFC With touch panel, with speaker, without beeper
GARMIN	A04967		WIFI, BLE, ANT Without touch panel, without speaker, with beeper
✦ The above models, model AA4967 was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 Specification of the Equipment under Test (EUT)

Power Type	5Vdc from host 3.87Vdc from battery
Type(s) of Modulation / Technology	GFSK = 1Mbps / 2Mbps
Frequency Range (MHz)	2402 ~ 2480 MHz (for 1Mbps) 2404 ~ 2478 MHz (for 2Mbps)
Total Channel Number	40 (for 1Mbps) 37 (for 2Mbps)
HW Version	012-04967-10
SW Version	2.0

1.1.3 Accessories

No.	Equipment	Description
1	Battery	Brand: Garmin Model: 361-00195-00 Rating: 3.87Vdc, 1490mAh
2	USB cable	Brand: GARMIN Model: 320-01643-0A Line: 0.55m shielded without core.

1.1.4 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	Garmin	700-00232-00	Monopole	No	-0.24

Note: Please refer to antenna report for more details about antenna pattern and other information.

1.1.5 Antenna Power

Operating Mode	Rated Power (mW)	Measured Conducted Power (mW)	Radiated Power (mW)
BT-LE(1Mbps)	2	1.442	1.365
BT-LE(2Mbps)	2	1.442	1.365

1.1.6 Channel List

Frequency band (MHz)				2402-2480 / BT-LE(1Mbps)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

Frequency band (MHz)				2404-2478 / BT-LE(2Mbps)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2404	10	2424	20	2446	30	2466
1	2406	11	2428	21	2448	31	2468
2	2408	12	2430	22	2450	32	2470
3	2410	13	2432	23	2452	33	2472
4	2412	14	2434	24	2454	34	2474
5	2414	15	2436	25	2456	35	2476
6	2416	16	2438	26	2458	36	2478
7	2418	17	2440	27	2460	--	--
8	2420	18	2442	28	2462	--	--
9	2422	19	2444	29	2464	--	--

1.1.7 Test Tool and Power Index

Test Tool
Hardware, version: 5.03

Power Index			
Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
BT-LE-1Mbps	Default	Default	Default
Modulation Mode	2404	2440	2478
BT-LE-2Mbps	Default	Default	Default

1.1.8 Test Voltage

Test Voltage	☒ Vnom (3.87 Vdc)	☒ Vmax (5.25 Vdc)	☒ Vmin (3.65 Vdc)
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1.1.9 Protection Method for High Frequency and Modulation Section

Protected Method	Description
Glue Case	RF and Modulation components are covered within case of EUT and this case used Glue to protect anybody to open this case. Then use the glue to compress tightly and protect the outer cover is not opened easily. The glue will be damaged and calibration function will be broken that causes measured value will be incorrect if the cover was opened.

1.2 Test Equipment and Calibration Data

Test Item	RF Conducted						
Test Site	(TH01-WS)						
Tested Date	Apr. 21, 2025						
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until	Calibration Authority	Calibration Method
Spectrum Analyzer	R&S	FSV40	101486	Mar. 03, 2025	Mar. 02, 2026	ETC	(C)
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 06, 2024	Nov. 05, 2025	ETC	(C)
Power Sensor	Anritsu	MA2411B	1207367	Feb. 18, 2025	Feb. 17, 2026	ETC	(C)
Power Meter	Anritsu	ML2495A	1218007	Feb. 18, 2025	Feb. 17, 2026	ETC	(C)
Measurement Software	Sporton	SENSE	5.10.7	NA	NA	N/A	N/A

Note 1: Calibration Interval of instruments listed above is one year.

Note 2: Calibration Method

- Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- Calibration conducted by using other equipment that listed above from a) to c).

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Article 2 Paragraph 1 Item 19

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.139 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
TX Conducted emission	± 2.680 dB
RX Conducted emission	± 3.034 dB

2 Test Configuration

2.1 Testing Location and Conditions

Test Site	Site Category	Ambient Condition	Tested By
TH01-WS	OVEN Room	20.5°C / 63%	Alan Tang

2.2 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

2.3 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)
Antenna Power	BT-LE-1Mbps BT-LE-2Mbps	2402 / 2440 / 2480 2404 / 2440 / 2478
Frequency Tolerance		
Occupied Bandwidth		
Transmitter Spurious Emission		
Interference prevention function		
Receiver Spurious Emissions		

3 Transmitter Test Results

3.1 Antenna Power

3.1.1 Limit of Antenna Power

Spread Spectrum Method	Frequency Range	Limit	Tolerance
1) FHSS (compound method with DSSS or OFDM)	2427 ~ 2470.75 MHz	3 mW / MHz	+20 %
	2400 ~ 2483.5 MHz (except 2427 ~2470.75MHz)	10 mW/MHz	
2) DSSS	2400 ~ 2483.5 MHz	10 mW / MHz	
3) OFDM (OBW with 26 MHz)	2400 ~ 2483.5 MHz	10 mW / MHz	
4) OFDM (OWB with 26 ~ 40MHz)	2400 ~ 2483.5 MHz	5 mW / MHz	
5) Other method (Except SS & OFDM)	2400 ~ 2483.5 MHz	10mW	

3.1.2 Test Procedures

Measure the total power by Power Meter

3.1.3 Test Setup



3.1.4 Test Result

Refer to Appendix A.

3.2 Frequency Tolerance

3.2.1 Limit of Frequency Tolerance

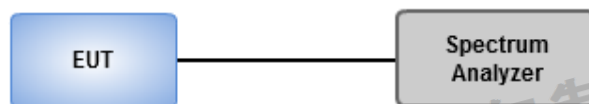
Frequency tolerance shall be +/- 50ppm.

3.2.2 Test Procedures

1. Set Span = 500kHz, RBW = 1kHz, VBW = 3kHz, Sweep time = Auto, detector = Peak.
2. Use Peak search function to find the max peak value and record this value (RF).
3. Calculate frequency tolerance by below formula
$$FT(ppm) = \{ (RF) - (MF) / (MF) \} \times 1000000$$

(FT: Frequency Tolerance, RF: Reading Frequency, MF: Measurement Frequency.)

3.2.3 Test Setup



3.2.4 Test Result

Refer to Appendix B.

3.3 Occupied Bandwidth

3.3.1 Limit of Occupied Bandwidth

Spread Spectrum Method	Limit (MHz)
FHSS (compound method with DSSS or OFDM)	83.5
DSSS	26
OFDM(Narrow bandwidth)	26
OFDM(Wide bandwidth)	26 ~ 40
Other method (Except SS & OFDM)	26

3.3.2 Test Procedures

1. Set Span = 40MHz, RBW = VBW = 300kHz, detector = Peak, Sweep time = Auto.
2. Enable OBW function of spectrum analyzer to measure OBW and capture test plot.

3.3.3 Test Setup



3.3.4 Test Result

Refer to Appendix C.

3.4 Transmitter Spurious Emissions

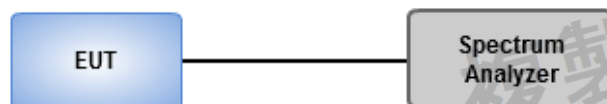
3.4.1 Limit of Transmitter Spurious Emissions

Item	Limits
Tx Spurious Emission	$\leq 2.5 \mu\text{W} / \text{MHz}$ ($2387\text{MHz} > f$; $2496.5\text{MHz} < f$).
	$\leq 25 \mu\text{W} / \text{MHz}$ ($2387\text{MHz} \leq f < 2400\text{MHz}$) and ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$).

3.4.2 Test Procedures

1. Set EUT to transmit at rated power and channel to perform test.
2. Set RBW = VBW = 1MHz, Detector type = Peak, Sweep time = Auto.
3. Following above setting of spectrum analyzer to measure spurious emission of 30~12500 MHz.

3.4.3 Test Setup



3.4.4 Test Result

Refer to Appendix D.

3.5 Interference Prevention Function

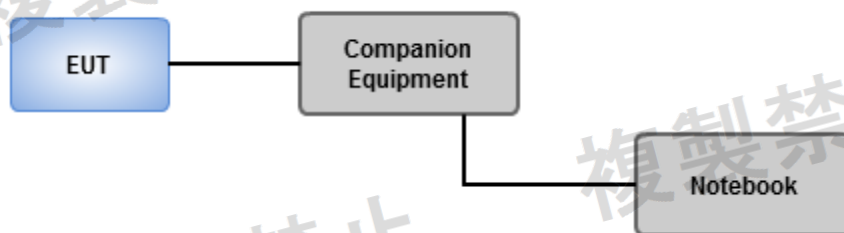
3.5.1 Limit of Interference Prevention Function

Limits
The identification code shall be 48 bits long

3.5.2 Test Procedures

1. Set EUT under operating mode and link up with companion equipment
2. Check communication status between EUT and companion equipment is normal
3. Confirm the MAC address of EUT

3.5.3 Test Setup



3.5.4 Test Result

Refer to Appendix E.

4 Receiver Test Results

4.1 Receiver Spurious Emissions

4.1.1 Limit of Receiver Spurious Emissions

Item	Limits
Rx Spurious Emission	$\leq 4\text{nW}$ ($f < 1\text{GHz}$).
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$).

4.1.2 Test Procedures

1. Set EUT under receiving condition to perform test
2. Set RBW = VBW = 100kHz, detector = Peak, Sweep time = Auto for emission measurement below 1GHz.
3. Set RBW = VBW=1MHz, detector = Peak, Sweep time = Auto for emission measurement above 1GHz.

4.1.3 Test Setup



4.1.4 Test Result

Refer to Appendix F.

5 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==



Summary

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	1.59	1.442	2	-27.89	20	-Inf

Inf = There's no restriction for the limit.

Result

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
BT-LE(1Mbps)	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	-3.91	0.406	2	-79.68	20	-Inf
2402MHz_TnomVmin	Pass	-3.90	0.407	2	-79.63	20	-Inf
2402MHz_TnomVmax	Pass	-3.89	0.408	2	-79.58	20	-Inf
2440MHz_TnomVnom	Pass	1.58	1.439	2	-28.06	20	-Inf
2440MHz_TnomVmin	Pass	1.57	1.435	2	-28.23	20	-Inf
2440MHz_TnomVmax	Pass	1.59	1.442	2	-27.89	20	-Inf
2480MHz_TnomVnom	Pass	-3.79	0.418	2	-79.11	20	-Inf
2480MHz_TnomVmin	Pass	-3.78	0.419	2	-79.06	20	-Inf
2480MHz_TnomVmax	Pass	-3.80	0.417	2	-79.16	20	-Inf

Inf = There's no restriction for the limit.



Summary

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	1.59	1.442	2	-27.89	20	-Inf

Inf = There's no restriction for the limit.

Result

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
BT-LE(2Mbps)	-	-	-	-	-	-	-
2404MHz_TnomVnom	Pass	1.14	1.300	2	-34.99	20	-Inf
2404MHz_TnomVmin	Pass	1.13	1.297	2	-35.14	20	-Inf
2404MHz_TnomVmax	Pass	1.15	1.303	2	-34.84	20	-Inf
2440MHz_TnomVnom	Pass	1.58	1.439	2	-28.06	20	-Inf
2440MHz_TnomVmin	Pass	1.59	1.442	2	-27.89	20	-Inf
2440MHz_TnomVmax	Pass	1.57	1.435	2	-28.23	20	-Inf
2478MHz_TnomVnom	Pass	-3.26	0.472	2	-76.40	20	-Inf
2478MHz_TnomVmin	Pass	-3.28	0.470	2	-76.51	20	-Inf
2478MHz_TnomVmax	Pass	-3.27	0.471	2	-76.45	20	-Inf

Inf = There's no restriction for the limit.

**Summary**

Mode	Power (dBm)	Power (mW)	EIRP (dBm)	EIRP (mW)
2.4-2.4835GHz	-	-	-	-
BT-LE(1Mbps)	1.59	1.442	1.35	1.365

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power (mW)	Power Lim. (mW)	EIRP (dBm)	EIRP (mW)	EIRP Lim. (mW)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	-0.24	-3.91	0.406	10	-4.15	0.385	16.368
2402MHz_TnomVmin	Pass	-0.24	-3.90	0.407	10	-4.14	0.385	16.368
2402MHz_TnomVmax	Pass	-0.24	-3.89	0.408	10	-4.13	0.386	16.368
2440MHz_TnomVnom	Pass	-0.24	1.58	1.439	10	1.34	1.361	16.368
2440MHz_TnomVmin	Pass	-0.24	1.57	1.435	10	1.33	1.358	16.368
2440MHz_TnomVmax	Pass	-0.24	1.59	1.442	10	1.35	1.365	16.368
2480MHz_TnomVnom	Pass	-0.24	-3.79	0.418	10	-4.03	0.395	16.368
2480MHz_TnomVmin	Pass	-0.24	-3.78	0.419	10	-4.02	0.396	16.368
2480MHz_TnomVmax	Pass	-0.24	-3.80	0.417	10	-4.04	0.394	16.368



Summary

Mode	Power (dBm)	Power (mW)	EIRP (dBm)	EIRP (mW)
2.4-2.4835GHz	-	-	-	-
BT-LE(2Mbps)	1.59	1.442	1.35	1.365

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power (mW)	Power Lim. (mW)	EIRP (dBm)	EIRP (mW)	EIRP Lim. (mW)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-
2404MHz_TnomVnom	Pass	-0.24	1.14	1.300	10	0.90	1.230	16.368
2404MHz_TnomVmin	Pass	-0.24	1.13	1.297	10	0.89	1.227	16.368
2404MHz_TnomVmax	Pass	-0.24	1.15	1.303	10	0.91	1.233	16.368
2440MHz_TnomVnom	Pass	-0.24	1.58	1.439	10	1.34	1.361	16.368
2440MHz_TnomVmin	Pass	-0.24	1.59	1.442	10	1.35	1.365	16.368
2440MHz_TnomVmax	Pass	-0.24	1.57	1.435	10	1.33	1.358	16.368
2478MHz_TnomVnom	Pass	-0.24	-3.26	0.472	10	-3.50	0.447	16.368
2478MHz_TnomVmin	Pass	-0.24	-3.28	0.470	10	-3.52	0.445	16.368
2478MHz_TnomVmax	Pass	-0.24	-3.27	0.471	10	-3.51	0.446	16.368



Frequency Tolerance

Appendix B.

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48G	2.480015044G	6.0661	±50	1	-

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
BT-LE(1Mbps)	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402G	2.40201406G	5.8535	±50	1	-
2402MHz_TnomVmin	Pass	2.402G	2.40201406G	5.8535	±50	1	-
2402MHz_TnomVmax	Pass	2.402G	2.402014056G	5.8518	±50	1	-
2440MHz_TnomVnom	Pass	2.44G	2.440014333G	5.8742	±50	1	-
2440MHz_TnomVmin	Pass	2.44G	2.440014334G	5.8746	±50	1	-
2440MHz_TnomVmax	Pass	2.44G	2.440014335G	5.875	±50	1	-
2480MHz_TnomVnom	Pass	2.48G	2.480015044G	6.0661	±50	1	-
2480MHz_TnomVmin	Pass	2.48G	2.480015041G	6.0649	±50	1	-
2480MHz_TnomVmax	Pass	2.48G	2.480015034G	6.0621	±50	1	-



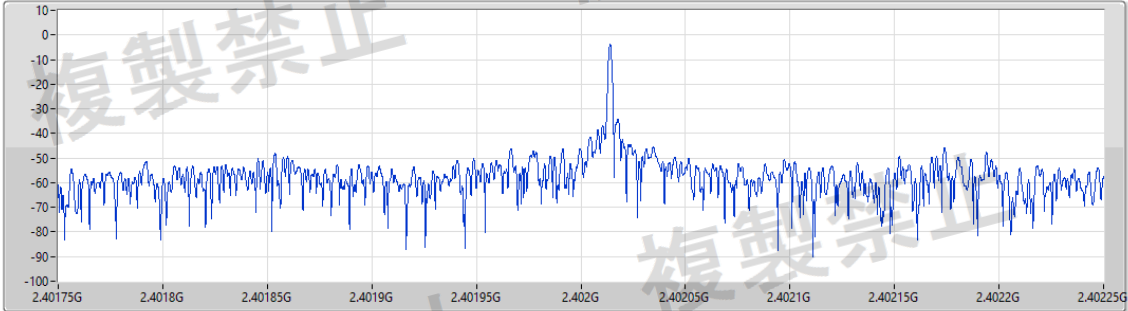
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2402MHz_TnomVnom

21/04/2025

CF (Hz)
2.402G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.402G	2.40201406G	-	-	5.8535	±50	1	-

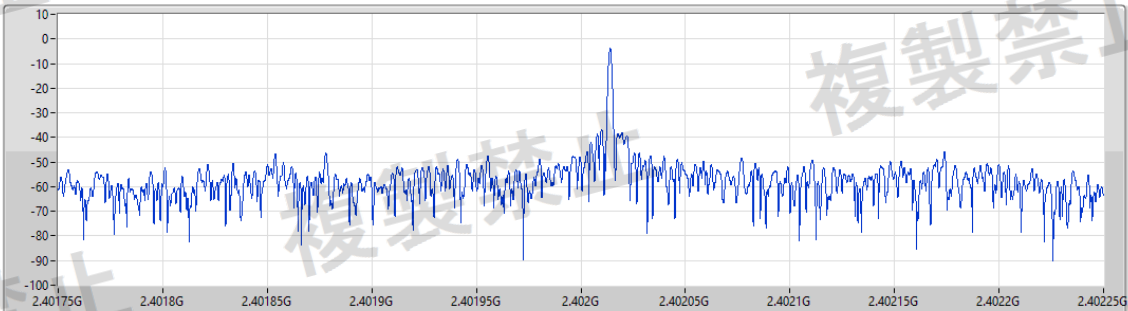
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2402MHz_TnomVmin

21/04/2025

CF (Hz)
2.402G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.402G	2.40201406G	-	-	5.8535	±50	1	-



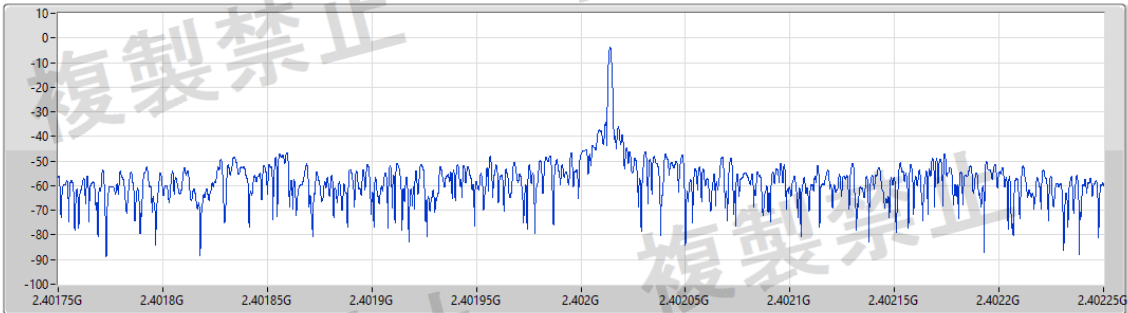
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2402MHz_TnomVmax

21/04/2025

CF (Hz)
2.402G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.402G	2.402014056G	-	-	5.8518	±50	1	-

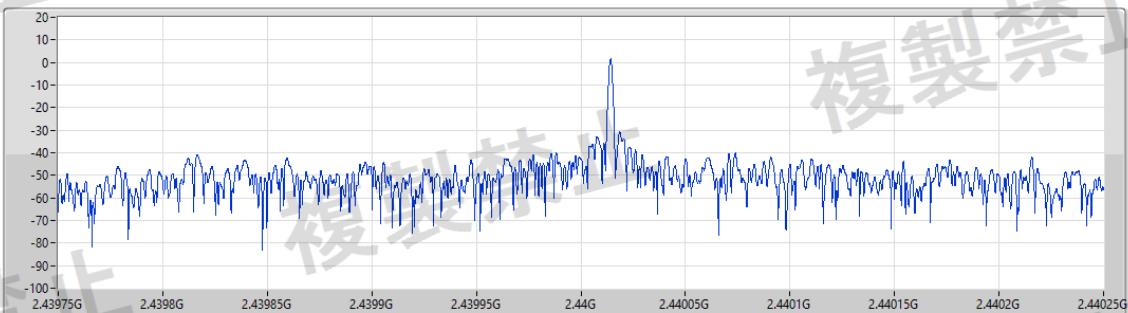
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2440MHz_TnomVnom

21/04/2025

CF (Hz)
2.44G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.44G	2.440014333G	-	-	5.8742	±50	1	-



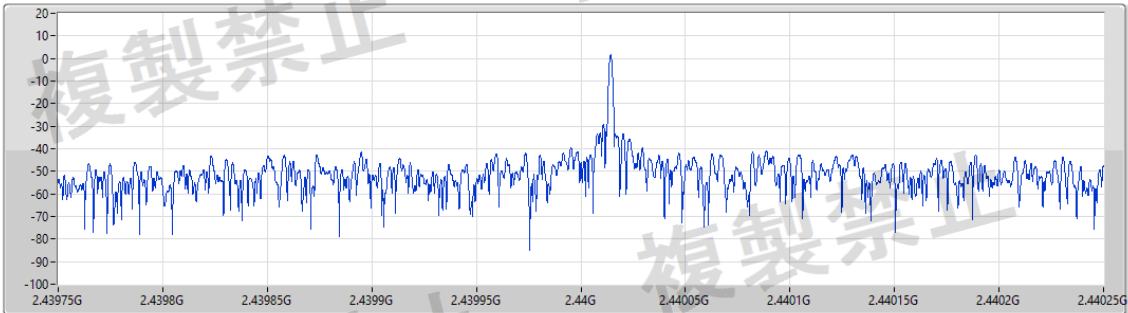
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2440MHz_TnomVmin

21/04/2025

CF (Hz)
2.44G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.44G	2.440014334G	-	-	5.8746	±50	1	-

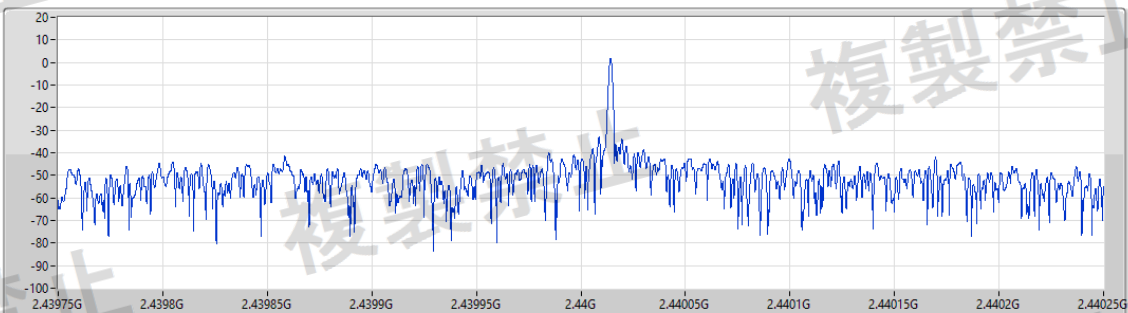
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2440MHz_TnomVmax

21/04/2025

CF (Hz)
2.44G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.44G	2.440014335G	-	-	5.875	±50	1	-



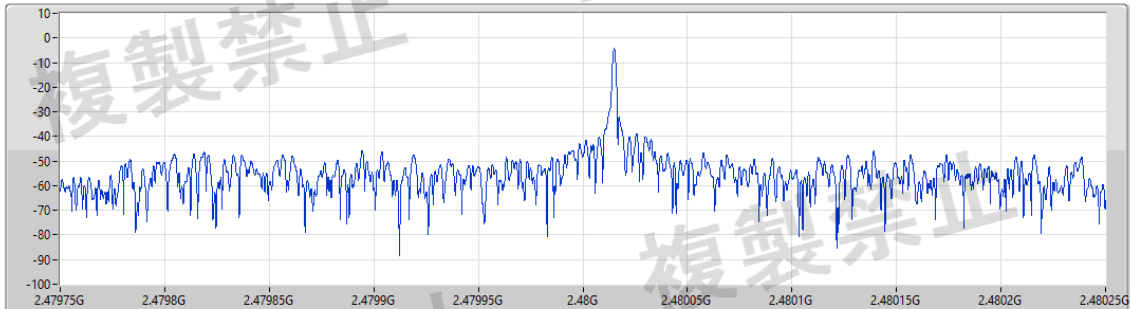
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

2480MHz_TnomVnom

21/04/2025

CF (Hz)
2.48G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.48G	2.480015044G	-	-	6.0661	±50	1	-

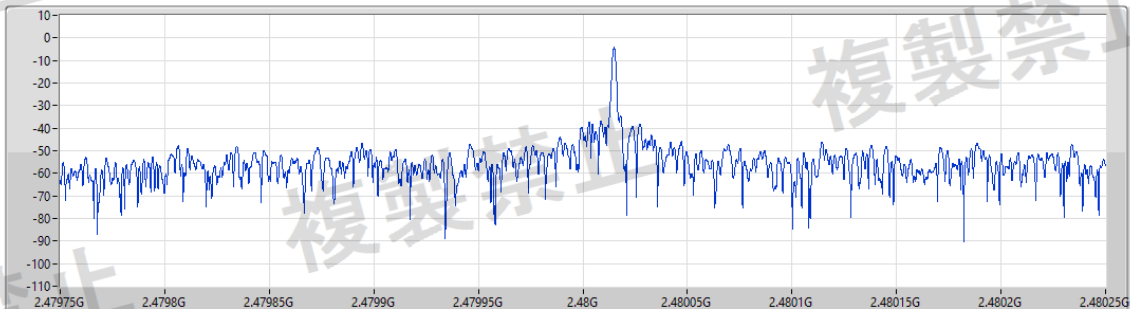
2.4-2.4835GHz_BT-LE(1Mbps)

Freq. Stability-DTS

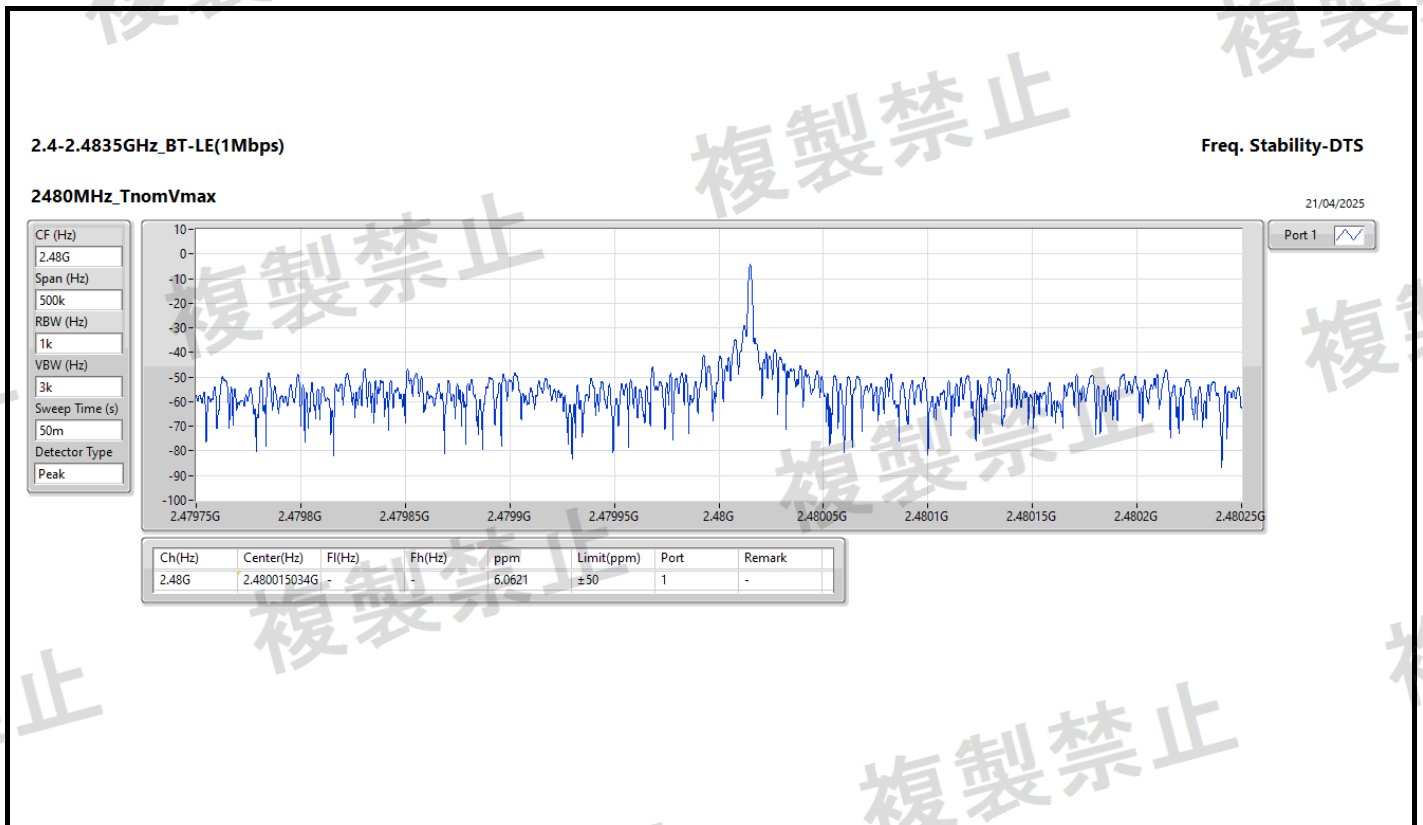
2480MHz_TnomVmin

21/04/2025

CF (Hz)
2.48G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.48G	2.480015041G	-	-	6.0649	±50	1	-





Frequency Tolerance

Appendix B.

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	2.478G	2.478014993G	6.0504	±50	1	-

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
BT-LE(2Mbps)	-	-	-	-	-	-	-
2404MHz_TnomVnom	Pass	2.404G	2.404014105G	5.8673	±50	1	-
2404MHz_TnomVmin	Pass	2.404G	2.404014105G	5.8673	±50	1	-
2404MHz_TnomVmax	Pass	2.404G	2.404014109G	5.869	±50	1	-
2440MHz_TnomVnom	Pass	2.44G	2.440014313G	5.866	±50	1	-
2440MHz_TnomVmin	Pass	2.44G	2.440014316G	5.8672	±50	1	-
2440MHz_TnomVmax	Pass	2.44G	2.440014317G	5.8676	±50	1	-
2478MHz_TnomVnom	Pass	2.478G	2.478014993G	6.0504	±50	1	-
2478MHz_TnomVmin	Pass	2.478G	2.478014989G	6.0488	±50	1	-
2478MHz_TnomVmax	Pass	2.478G	2.47801499G	6.0492	±50	1	-

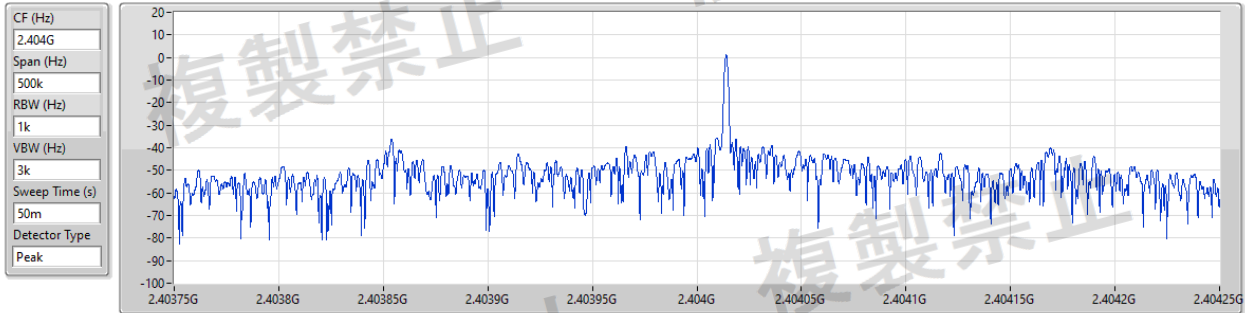


2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2404MHz_TnomVnom

21/04/2025



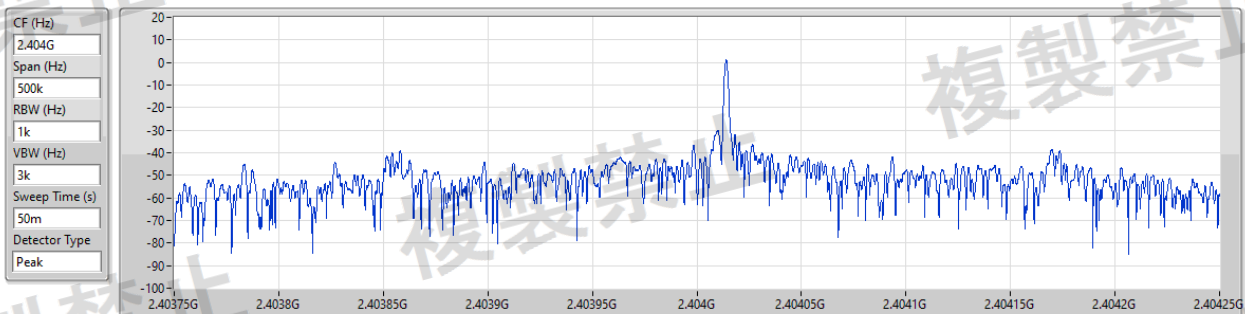
Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.404G	2.404014105G	-	-	5.8673	±50	1	-

2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2404MHz_TnomVmin

21/04/2025



Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.404G	2.404014105G	-	-	5.8673	±50	1	-



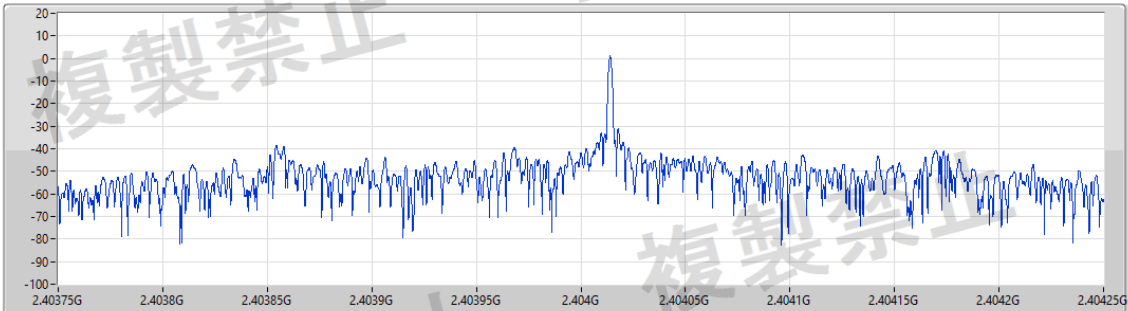
2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2404MHz_TnomVmax

21/04/2025

CF (Hz)
2.404G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



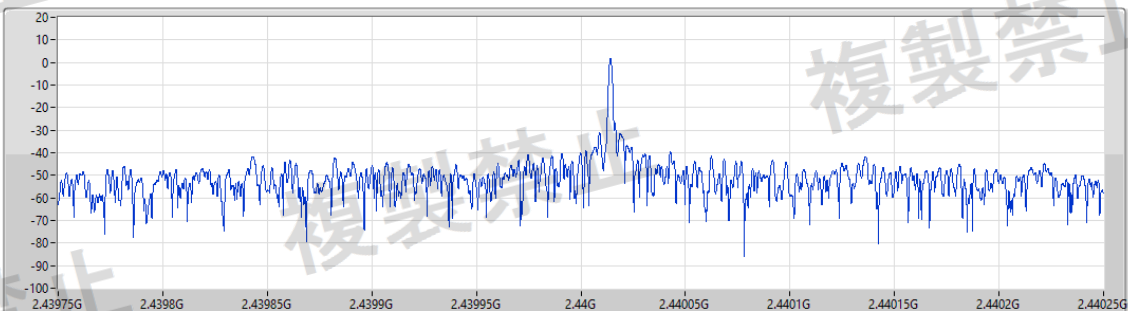
2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2440MHz_TnomVnom

21/04/2025

CF (Hz)
2.44G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak





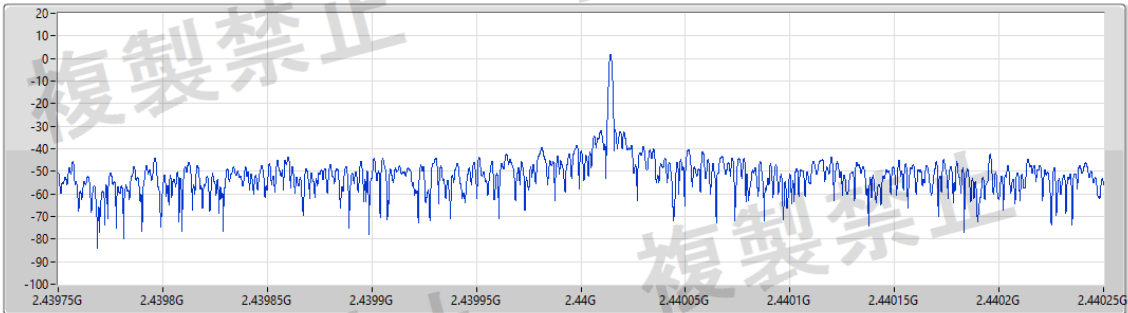
2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2440MHz_TnomVmin

21/04/2025

CF (Hz)
2.44G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.44G	2.440014316G	-	-	5.8672	±50	1	-

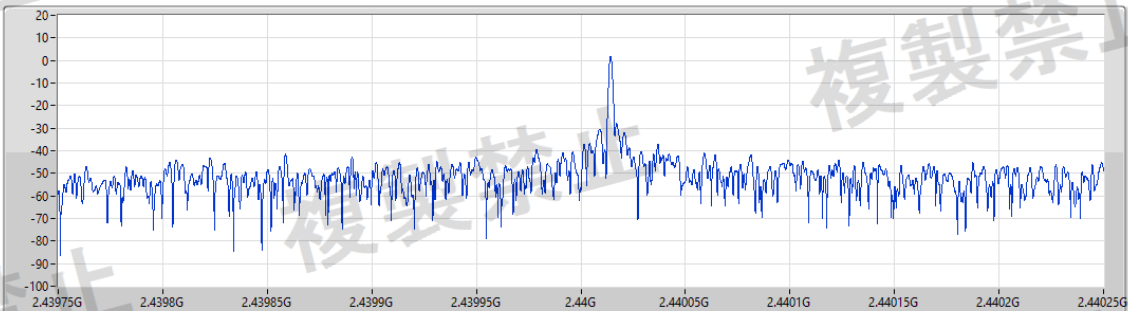
2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2440MHz_TnomVmax

21/04/2025

CF (Hz)
2.44G
Span (Hz)
500k
RBW (Hz)
1k
VBW (Hz)
3k
Sweep Time (s)
50m
Detector Type
Peak



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.44G	2.440014317G	-	-	5.8676	±50	1	-

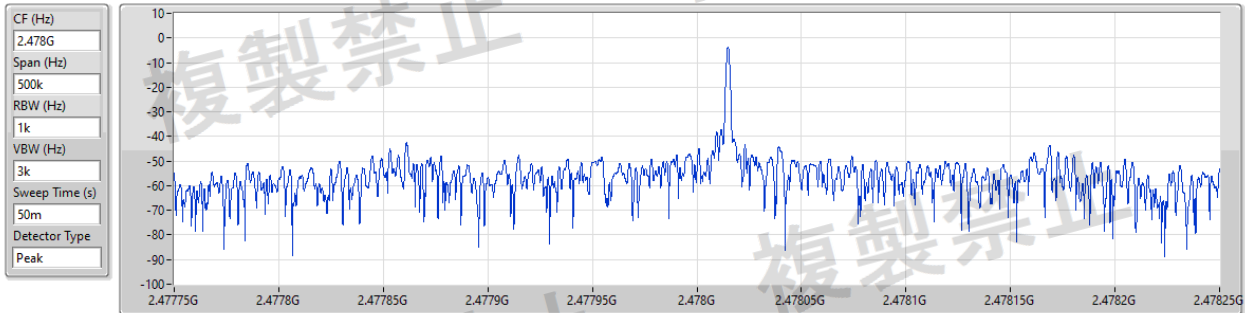


2.4-2.4835GHz_BT-LE(2Mbps)

Freq. Stability-DTS

2478MHz_TnomVnom

21/04/2025



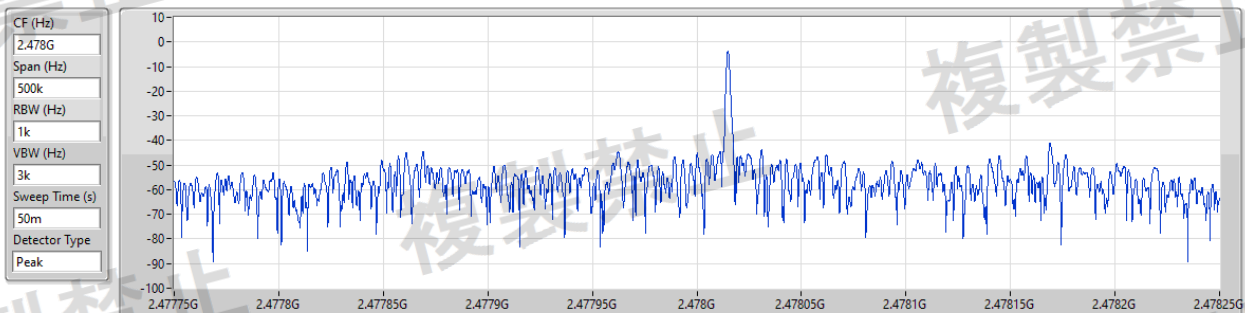
Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.478G	2.478014993G	-	-	6.0504	±50	1	-

2.4-2.4835GHz_BT-LE(2Mbps)

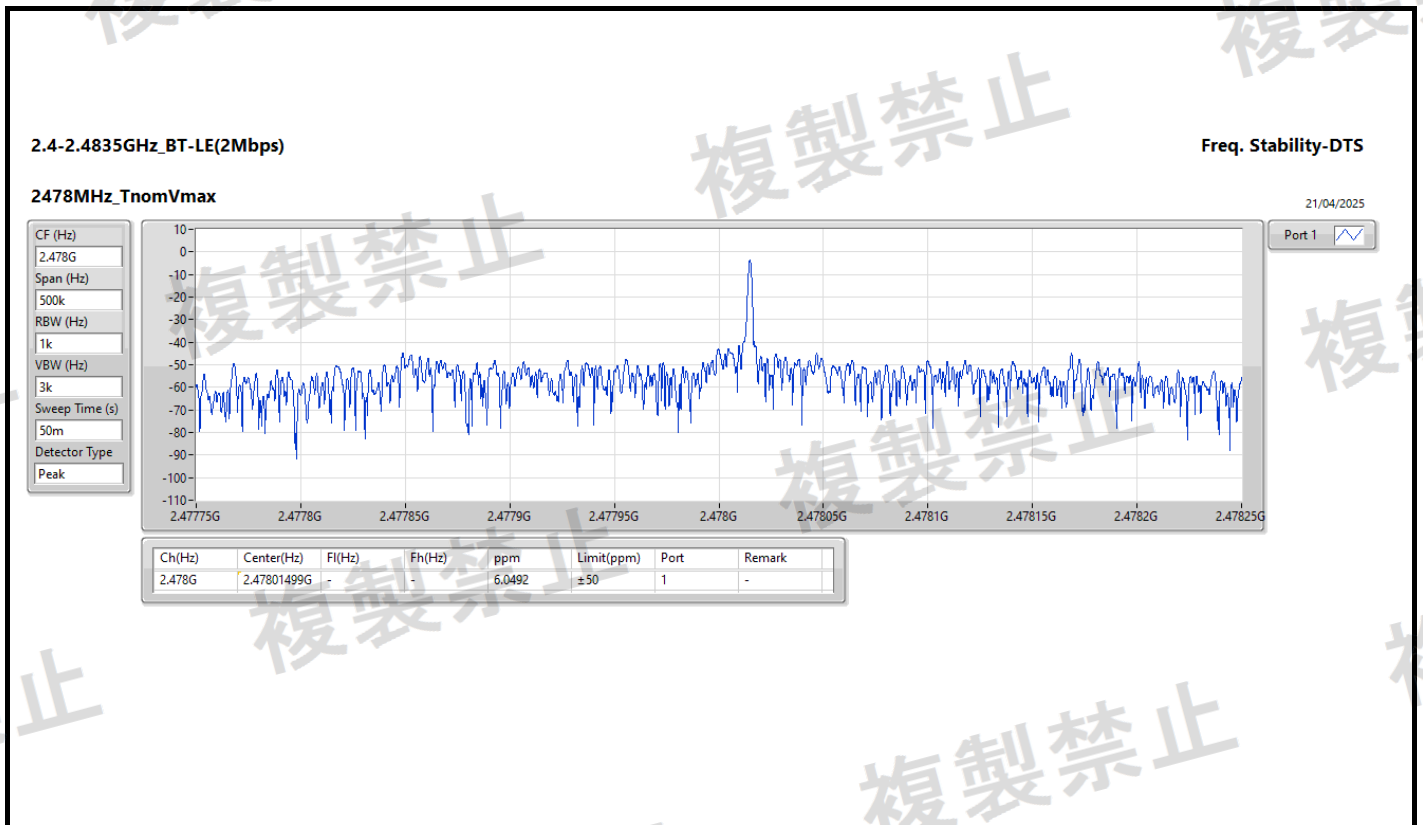
Freq. Stability-DTS

2478MHz_TnomVmin

21/04/2025



Ch(Hz)	Center(Hz)	F(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
2.478G	2.478014989G	-	-	6.0488	±50	1	-





Occupied Bandwidth

Appendix C.

Summary

Mode	Max-OBW (Hz)	ITU-Code	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-
BT-LE(1Mbps)	1.381M	1M38F1D	1.362M

Max-OBW = Maximum 99% occupied bandwidth; Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	P1-OBW (Hz)
BT-LE(1Mbps)	-	-	-
2402MHz_TnomVnom	Pass	26M	1.381M
2402MHz_TnomVmin	Pass	26M	1.379M
2402MHz_TnomVmax	Pass	26M	1.38M
2440MHz_TnomVnom	Pass	26M	1.362M
2440MHz_TnomVmin	Pass	26M	1.363M
2440MHz_TnomVmax	Pass	26M	1.363M
2480MHz_TnomVnom	Pass	26M	1.363M
2480MHz_TnomVmin	Pass	26M	1.364M
2480MHz_TnomVmax	Pass	26M	1.364M

P1-OBW = Port 1 99% occupied bandwidth;

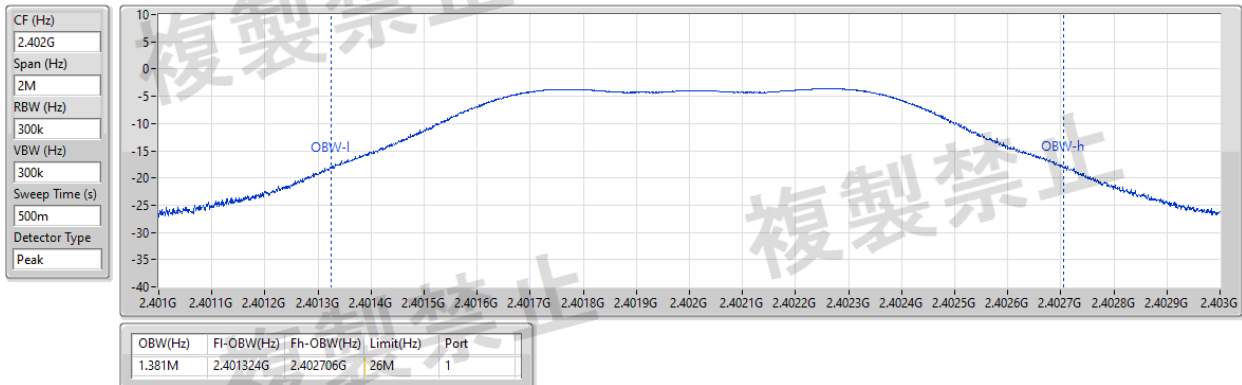


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2402MHz_TnomVnom

21/04/2025

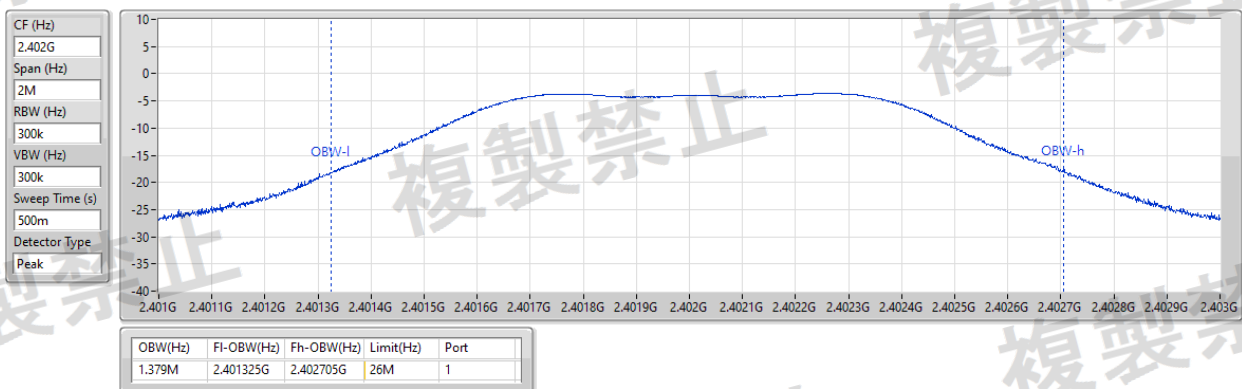


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2402MHz_TnomVmin

21/04/2025



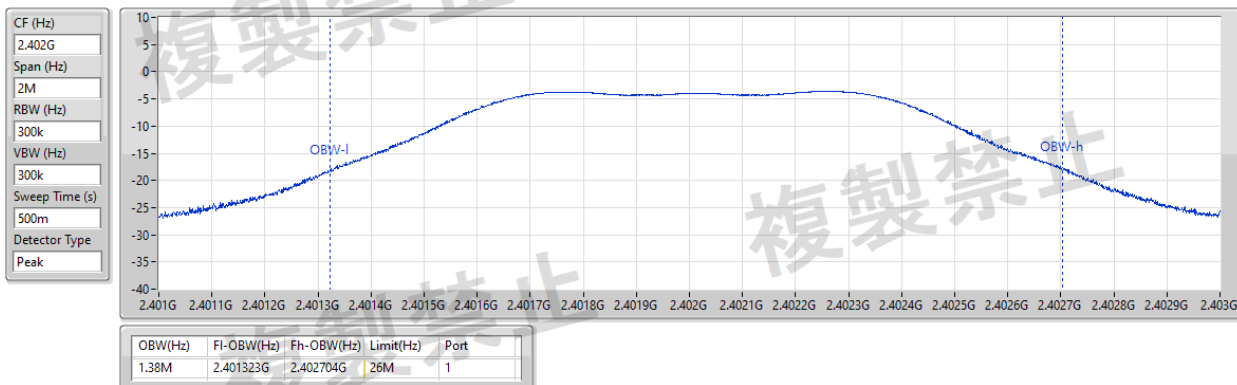


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2402MHz_TnomVmax

21/04/2025

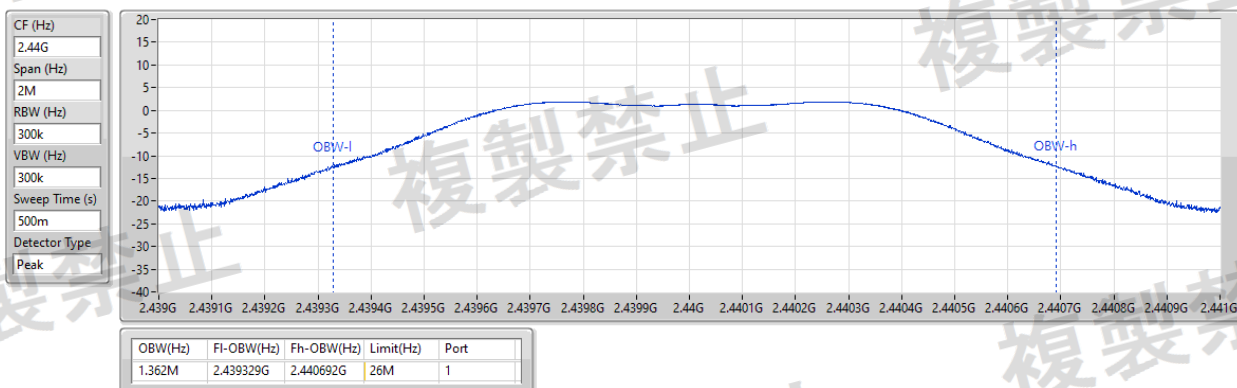


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2440MHz_TnomVnom

21/04/2025



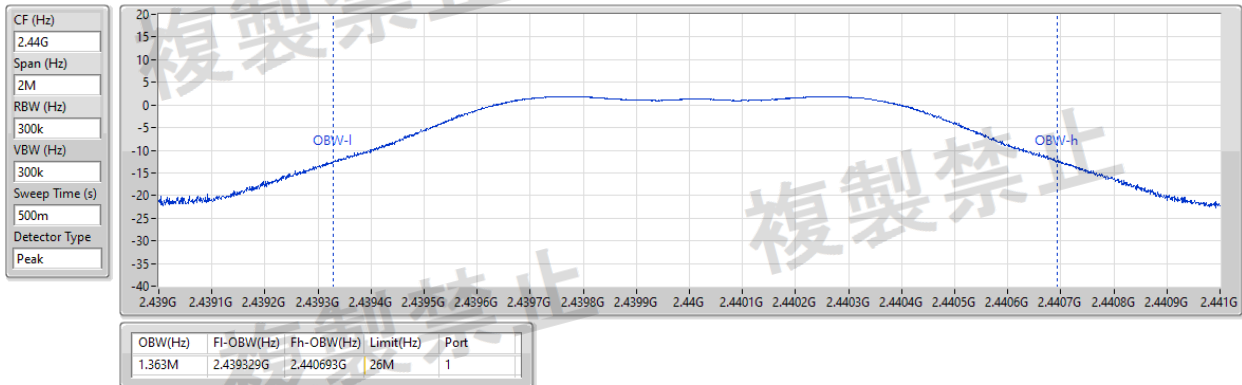


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2440MHz_TnomVmin

21/04/2025

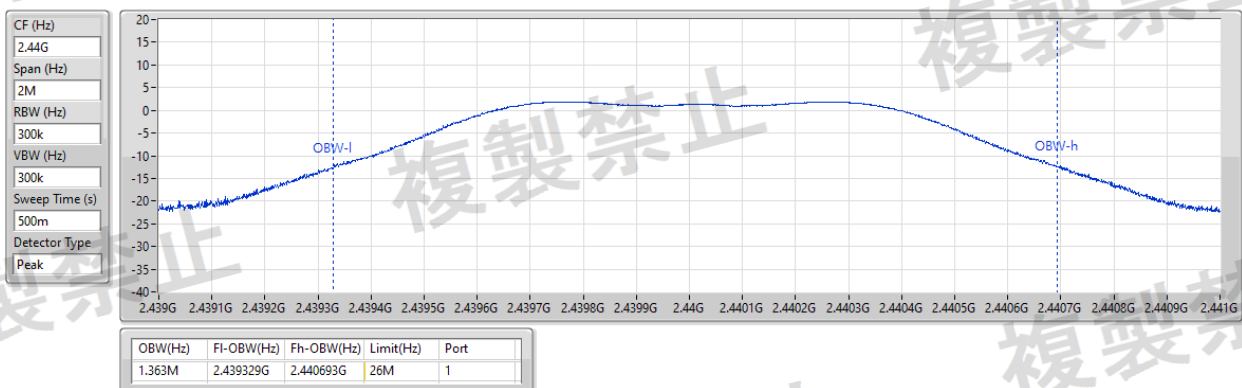


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2440MHz_TnomVmax

21/04/2025



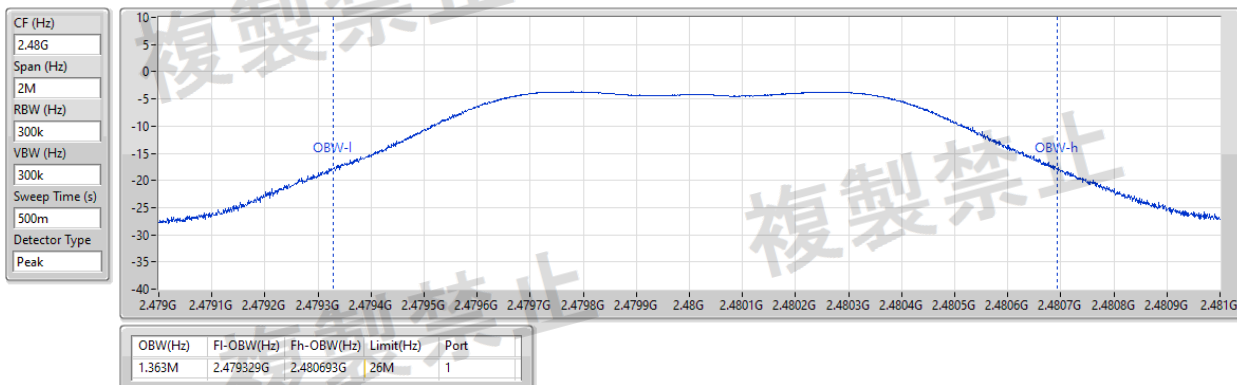


2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2480MHz_TnomVnom

21/04/2025

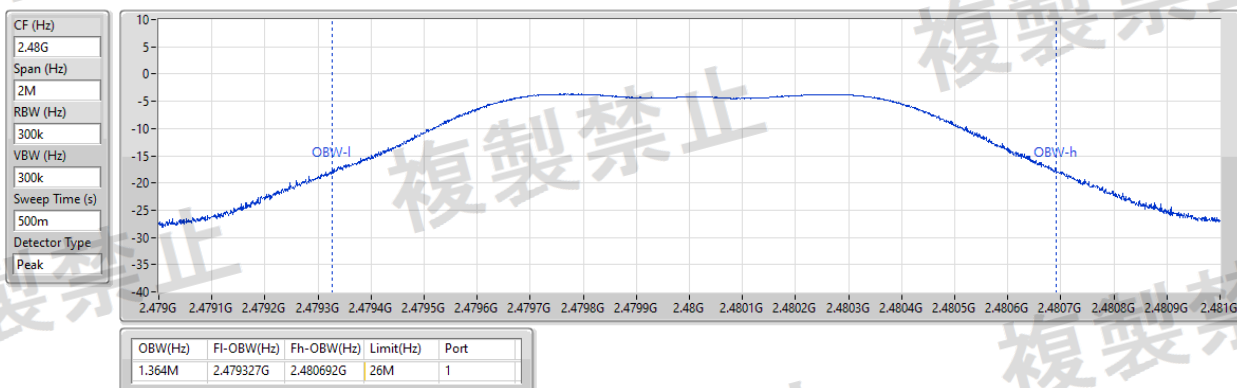


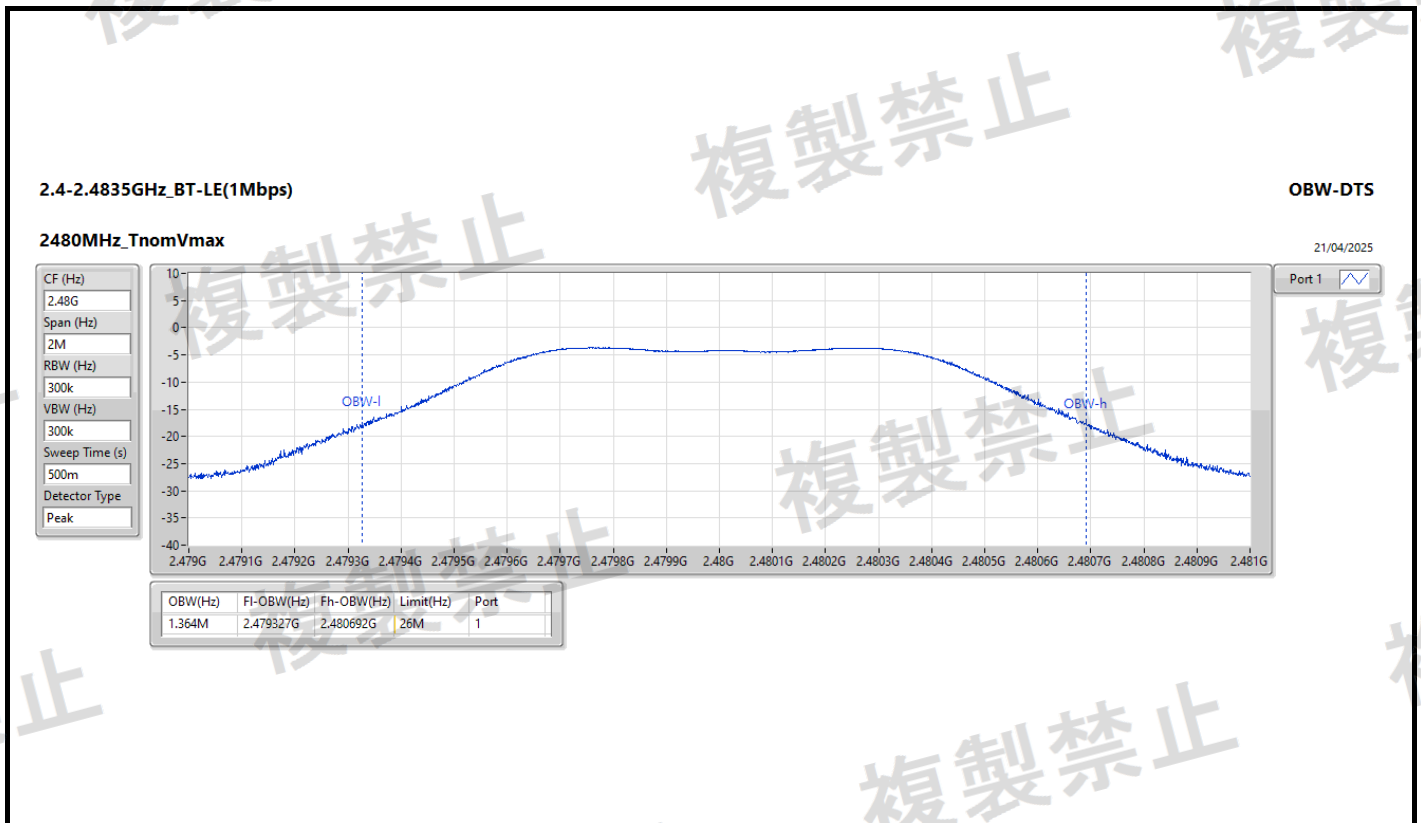
2.4-2.4835GHz_BT-LE(1Mbps)

OBW-DTS

2480MHz_TnomVmin

21/04/2025







Occupied Bandwidth

Appendix C.

Summary

Mode	Max-OBW (Hz)	ITU-Code	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-
BT-LE(2Mbps)	2.639M	2M64F1D	2.271M

Max-OBW = Maximum 99% occupied bandwidth; Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	P1-OBW (Hz)
BT-LE(2Mbps)	-	-	-
2404MHz_TnomVnom	Pass	26M	2.271M
2404MHz_TnomVmin	Pass	26M	2.271M
2404MHz_TnomVmax	Pass	26M	2.271M
2440MHz_TnomVnom	Pass	26M	2.453M
2440MHz_TnomVmin	Pass	26M	2.451M
2440MHz_TnomVmax	Pass	26M	2.451M
2478MHz_TnomVnom	Pass	26M	2.637M
2478MHz_TnomVmin	Pass	26M	2.639M
2478MHz_TnomVmax	Pass	26M	2.637M

P1-OBW = Port 1 99% occupied bandwidth;

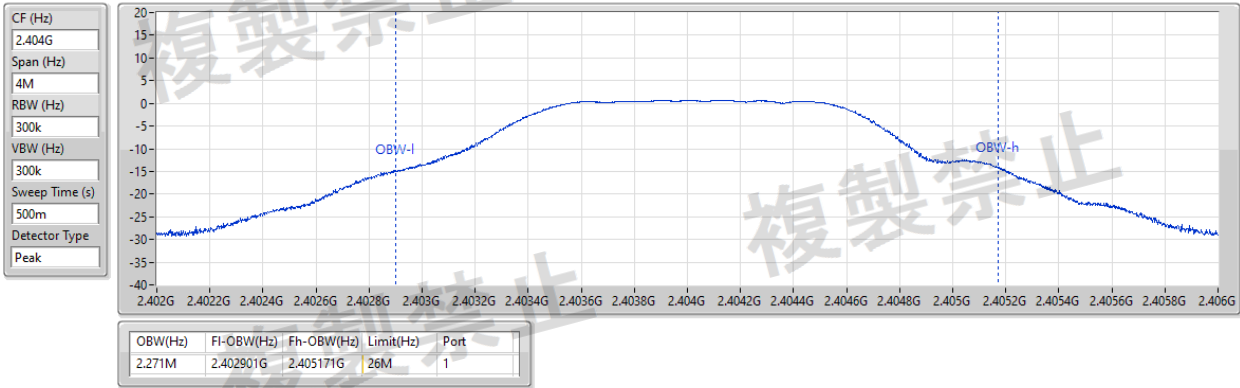


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2404MHz_TnomVnom

21/04/2025

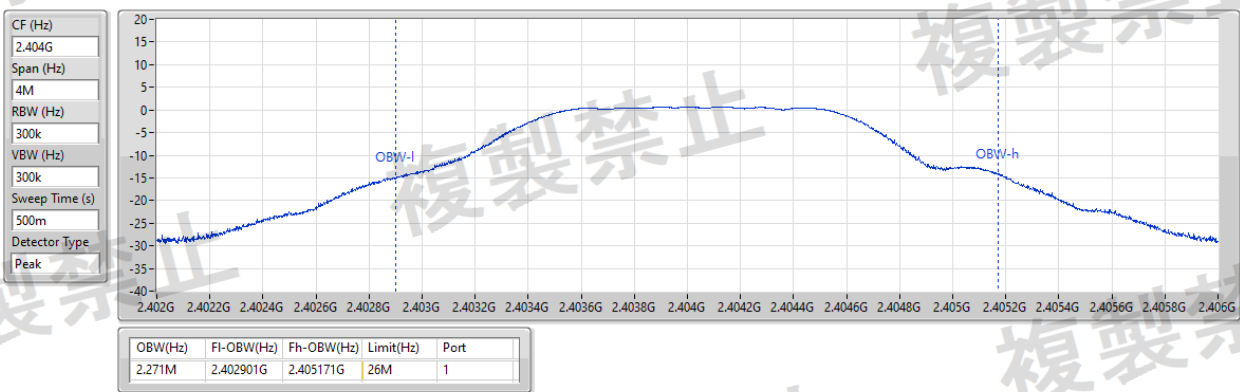


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2404MHz_TnomVmin

21/04/2025



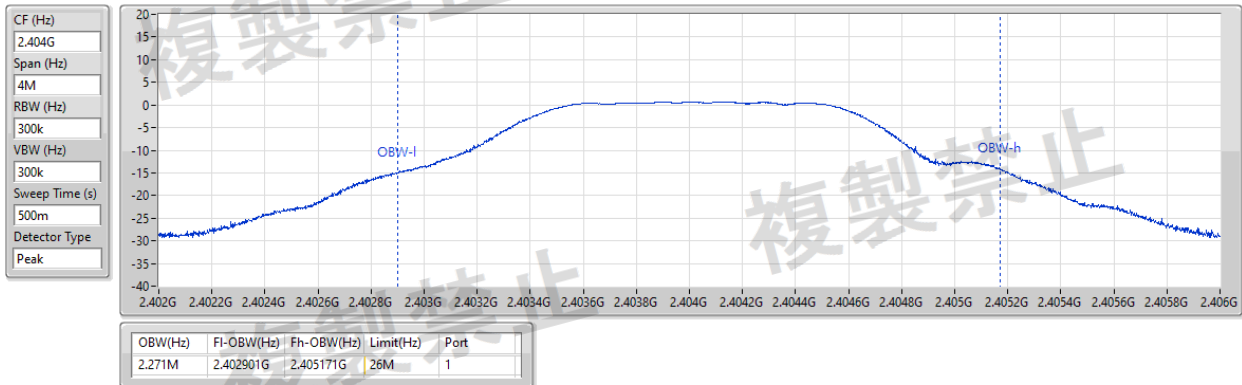


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2404MHz_TnomVmax

21/04/2025

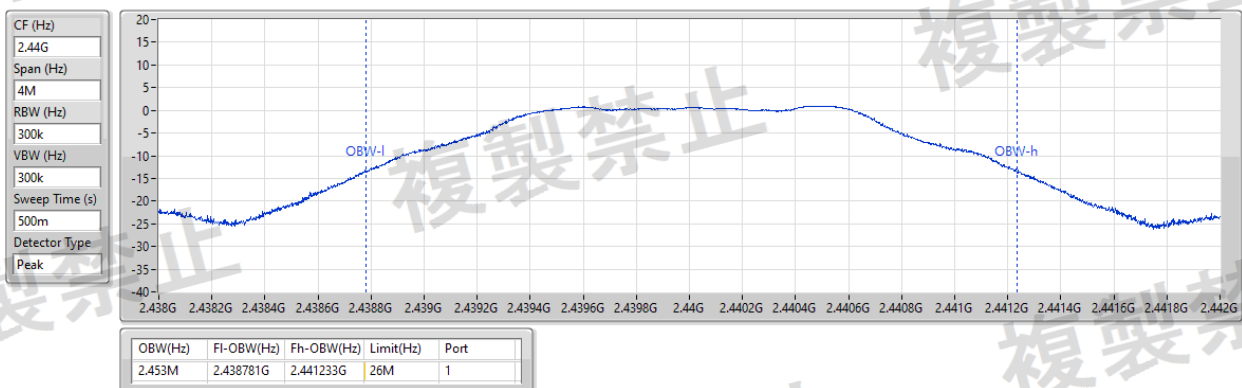


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2440MHz_TnomVnom

21/04/2025



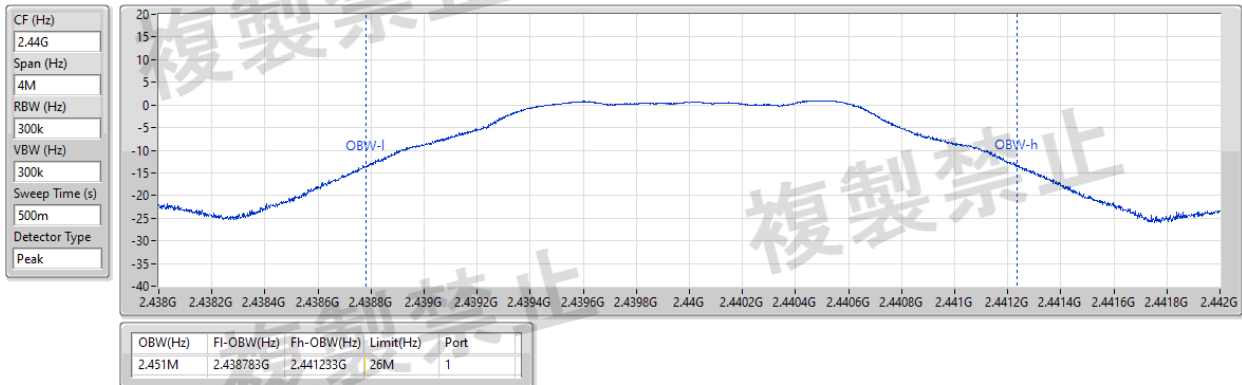


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2440MHz_TnomVmin

21/04/2025

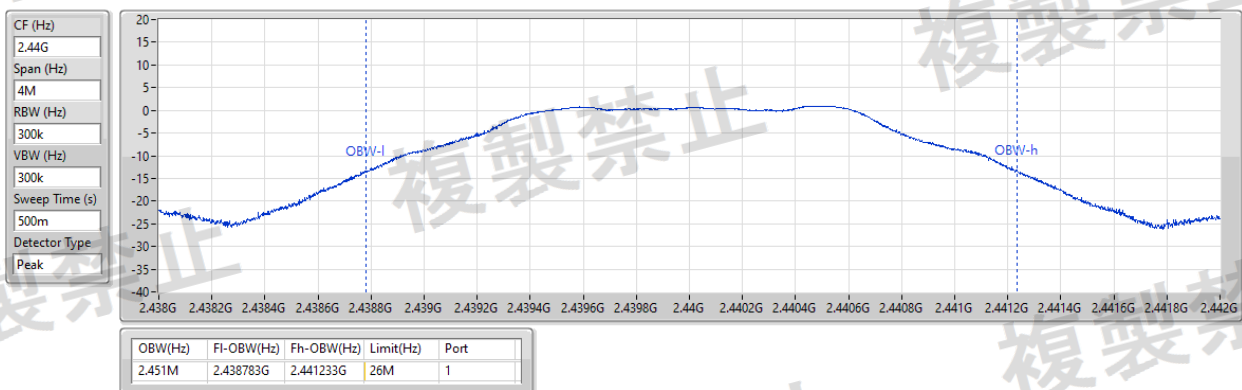


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2440MHz_TnomVmax

21/04/2025



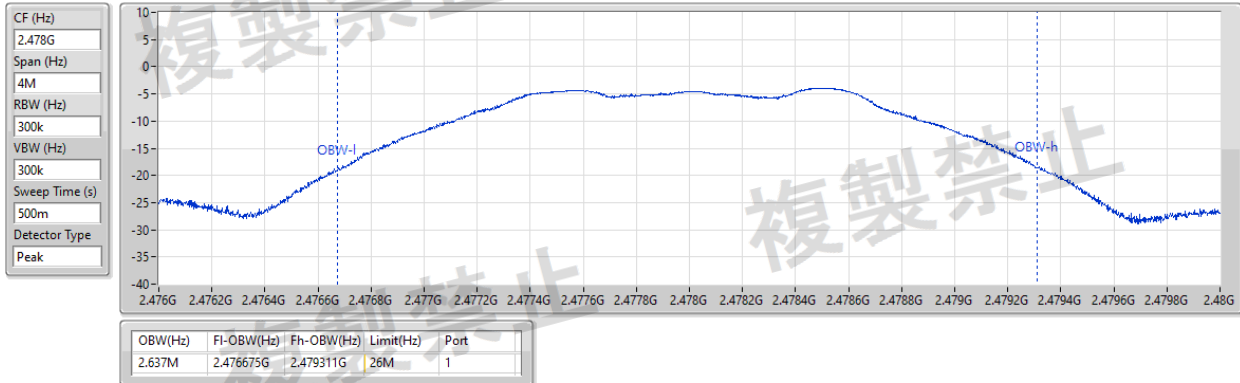


2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2478MHz_TnomVnom

21/04/2025

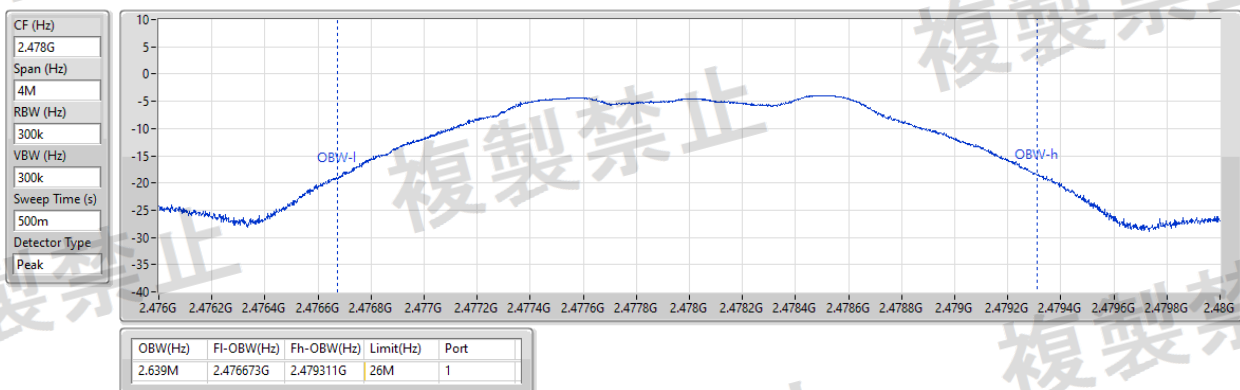


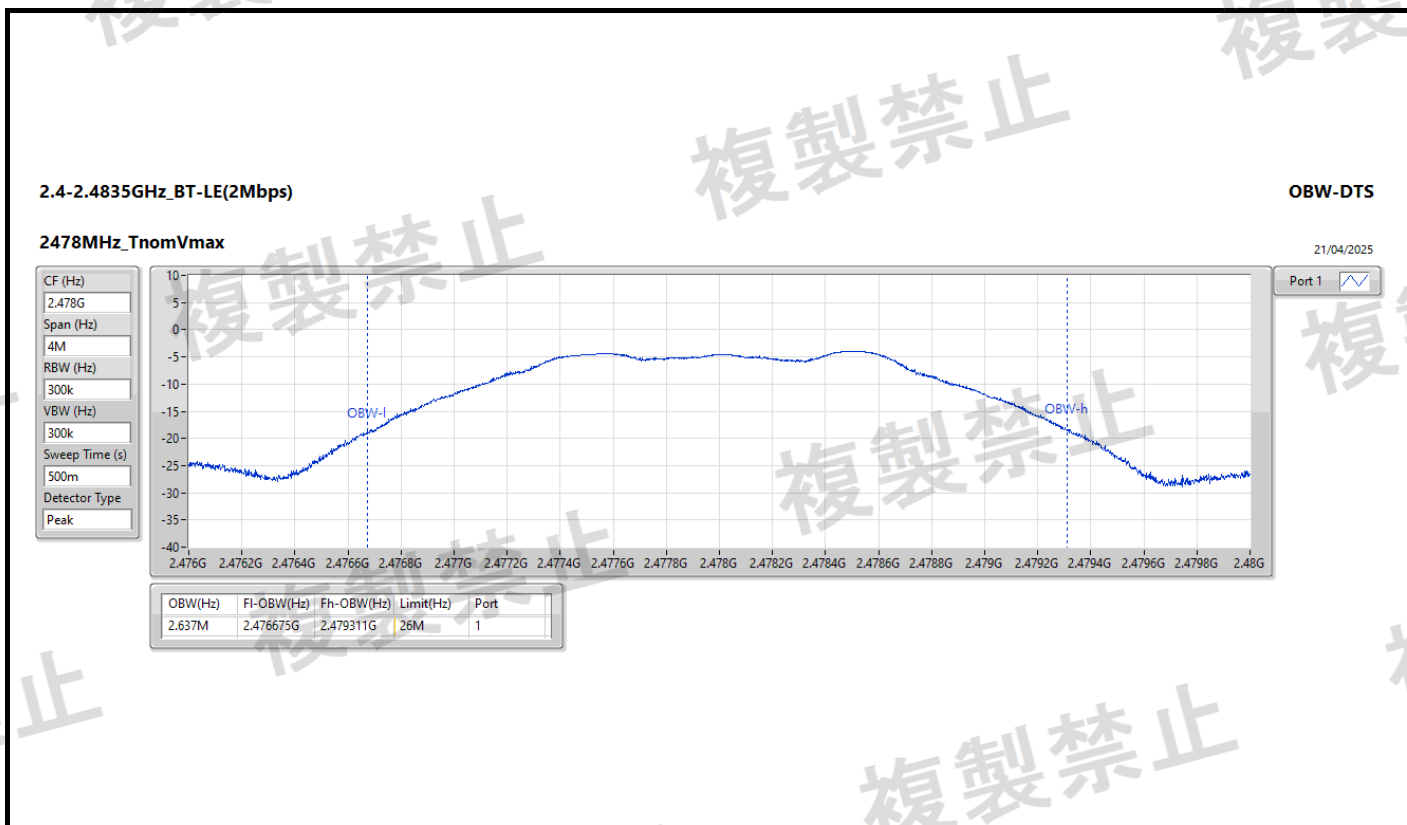
2.4-2.4835GHz_BT-LE(2Mbps)

OBW-DTS

2478MHz_TnomVmin

21/04/2025







Transmitter Spurious Emissions

Appendix D.

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.4965G	12.5G	1M	12.46499G	-43.39	0.04581	-26.02	2.5

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	2.387G	1M	2.31585G	-53.82	0.00415	-26.02	2.5
2402MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.4G	-36.50	0.22387	-16.02	25
2402MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48431G	-53.10	0.0049	-16.02	25
2402MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.46217G	-44.18	0.03819	-26.02	2.5
2402MHz_TnomVmin	Pass	30M	2.387G	1M	2.28793G	-53.50	0.00447	-26.02	2.5
2402MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.4G	-36.51	0.22336	-16.02	25
2402MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48992G	-53.21	0.00478	-16.02	25
2402MHz_TnomVmin	Pass	2.4965G	12.5G	1M	12.46499G	-43.39	0.04581	-26.02	2.5
2402MHz_TnomVmax	Pass	30M	2.387G	1M	2.12795G	-53.50	0.00447	-26.02	2.5
2402MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39998G	-36.39	0.22961	-16.02	25
2402MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.49576G	-52.98	0.00504	-16.02	25
2402MHz_TnomVmax	Pass	2.4965G	12.5G	1M	11.17016G	-44.38	0.03648	-26.02	2.5
2440MHz_TnomVnom	Pass	30M	2.387G	1M	2.32005G	-53.86	0.00411	-26.02	2.5
2440MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39182G	-53.07	0.00493	-16.02	25
2440MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48413G	-52.84	0.0052	-16.02	25
2440MHz_TnomVnom	Pass	2.4965G	12.5G	1M	11.22424G	-43.78	0.04188	-26.02	2.5
2440MHz_TnomVmin	Pass	30M	2.387G	1M	2.33647G	-53.79	0.00418	-26.02	2.5
2440MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39668G	-53.50	0.00447	-16.02	25
2440MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.49603G	-53.21	0.00478	-16.02	25
2440MHz_TnomVmin	Pass	2.4965G	12.5G	1M	11.22768G	-44.25	0.03758	-26.02	2.5
2440MHz_TnomVmax	Pass	30M	2.387G	1M	2.12383G	-53.94	0.00404	-26.02	2.5
2440MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39761G	-53.59	0.00438	-16.02	25
2440MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.49245G	-52.88	0.00515	-16.02	25
2440MHz_TnomVmax	Pass	2.4965G	12.5G	1M	12.49812G	-44.37	0.03656	-26.02	2.5
2480MHz_TnomVnom	Pass	30M	2.387G	1M	2.31121G	-53.62	0.00435	-26.02	2.5
2480MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39669G	-53.53	0.00444	-16.02	25
2480MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48365G	-50.22	0.00951	-16.02	25
2480MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.49187G	-43.99	0.0399	-26.02	2.5
2480MHz_TnomVmin	Pass	30M	2.387G	1M	2.29589G	-53.75	0.00422	-26.02	2.5
2480MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39094G	-53.24	0.00474	-16.02	25
2480MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48402G	-49.99	0.01002	-16.02	25
2480MHz_TnomVmin	Pass	2.4965G	12.5G	1M	11.21861G	-44.32	0.03698	-26.02	2.5
2480MHz_TnomVmax	Pass	30M	2.387G	1M	2.37625G	-54.04	0.00394	-26.02	2.5
2480MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39336G	-53.51	0.00446	-16.02	25
2480MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48362G	-50.23	0.00948	-16.02	25
2480MHz_TnomVmax	Pass	2.4965G	12.5G	1M	11.22299G	-44.45	0.03589	-26.02	2.5

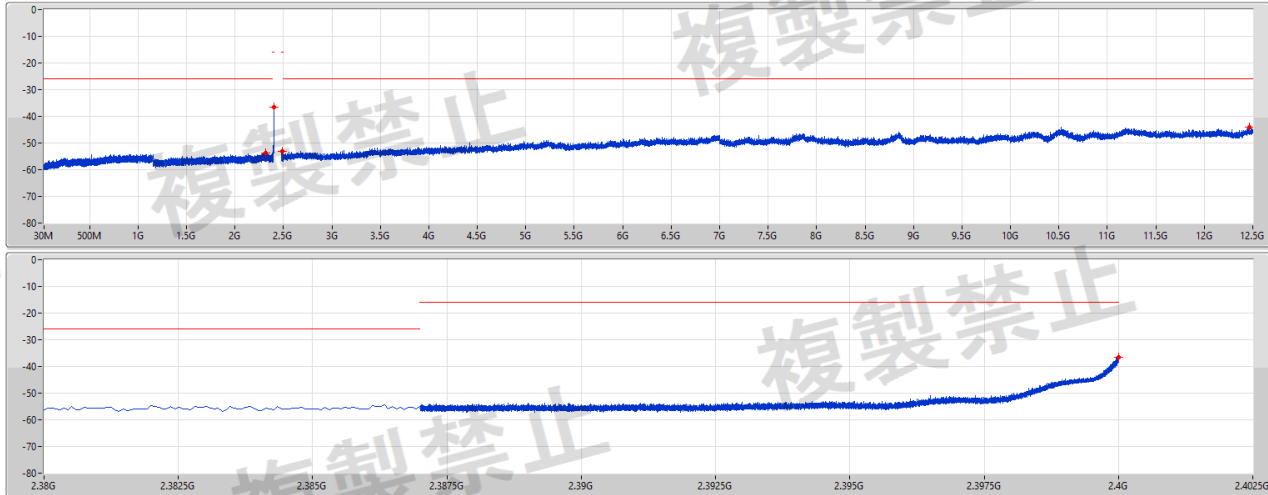


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2402MHz_TnomVnom

21/04/2025



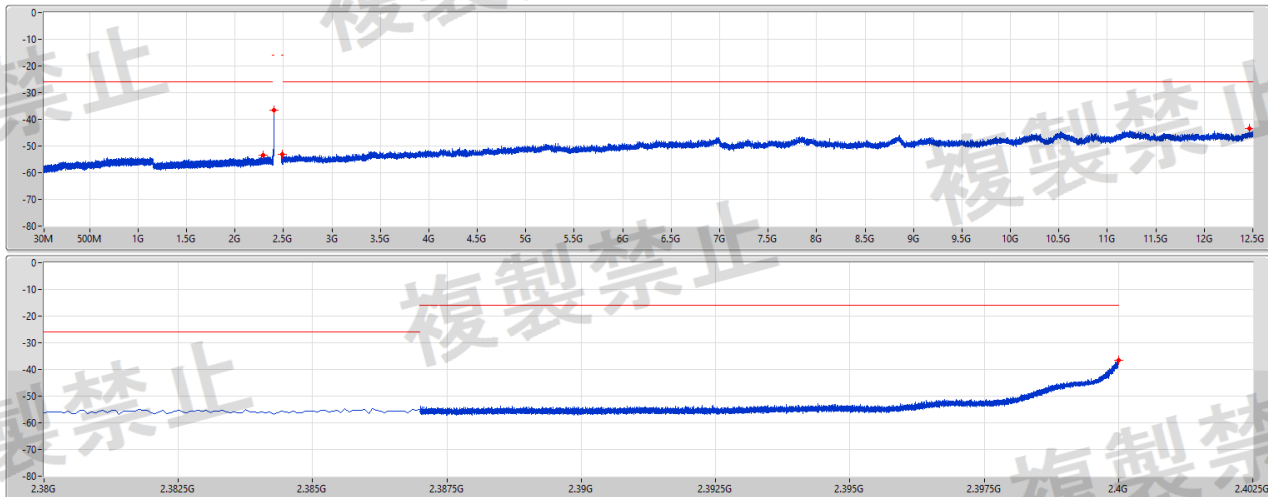
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.31585G	-53.82	-26.02	-27.80	-53.82
2.387G	2.4G	2.4G	-36.50	-16.02	-20.48	-36.50
2.4835G	2.4965G	2.48431G	-53.10	-16.02	-37.08	-53.10
2.4965G	12.5G	12.46217G	-44.18	-26.02	-18.16	-44.18

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2402MHz_TnomVmin

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.28793G	-53.50	-26.02	-27.48	-53.50
2.387G	2.4G	2.4G	-36.51	-16.02	-20.49	-36.51
2.4835G	2.4965G	2.48992G	-53.21	-16.02	-37.19	-53.21
2.4965G	12.5G	12.46499G	-43.39	-26.02	-17.37	-43.39

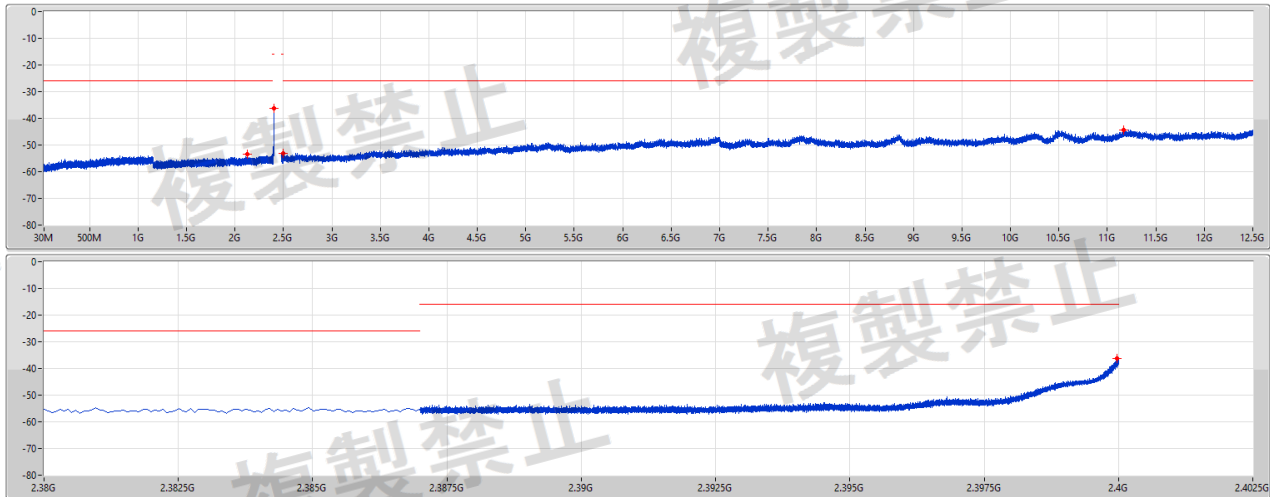


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2402MHz_TnomVmax

21/04/2025



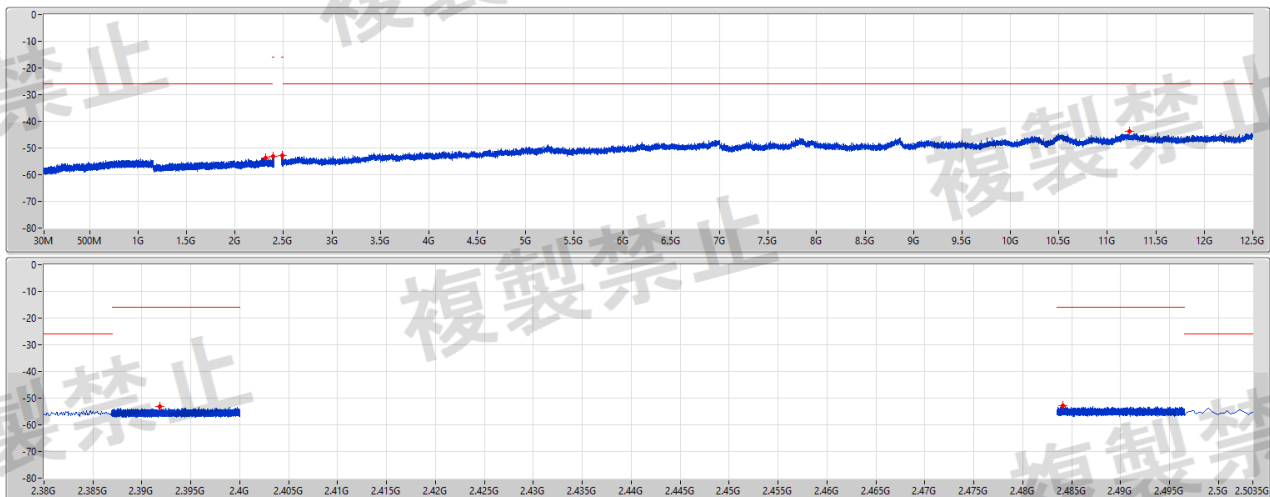
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.12795G	-53.50	-26.02	-27.48	-53.50
2.387G	2.4G	2.39998G	-36.39	-16.02	-20.37	-36.39
2.4835G	2.4965G	2.49576G	-52.98	-16.02	-36.96	-52.98
2.4965G	12.5G	11.17016G	-44.38	-26.02	-18.36	-44.38

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2440MHz_TnomVnom

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.32005G	-53.86	-26.02	-27.84	-53.86
2.387G	2.4G	2.39182G	-53.07	-16.02	-37.05	-53.07
2.4835G	2.4965G	2.48413G	-52.84	-16.02	-36.82	-52.84
2.4965G	12.5G	11.22424G	-43.78	-26.02	-17.76	-43.78

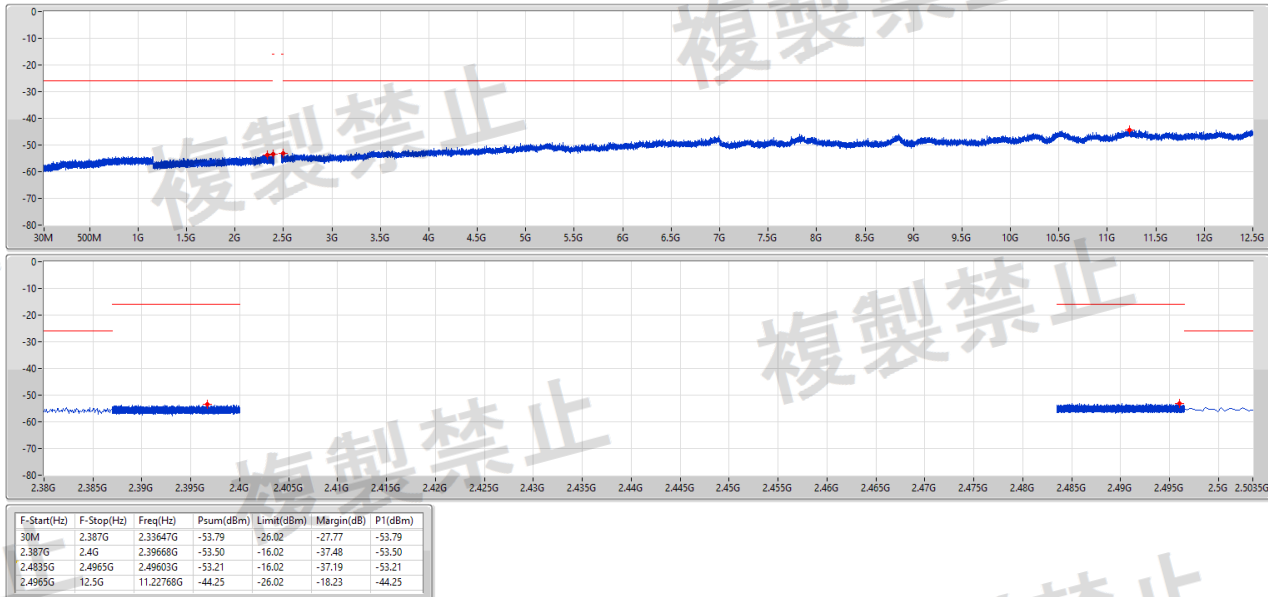


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2440MHz_TnomVmin

21/04/2025

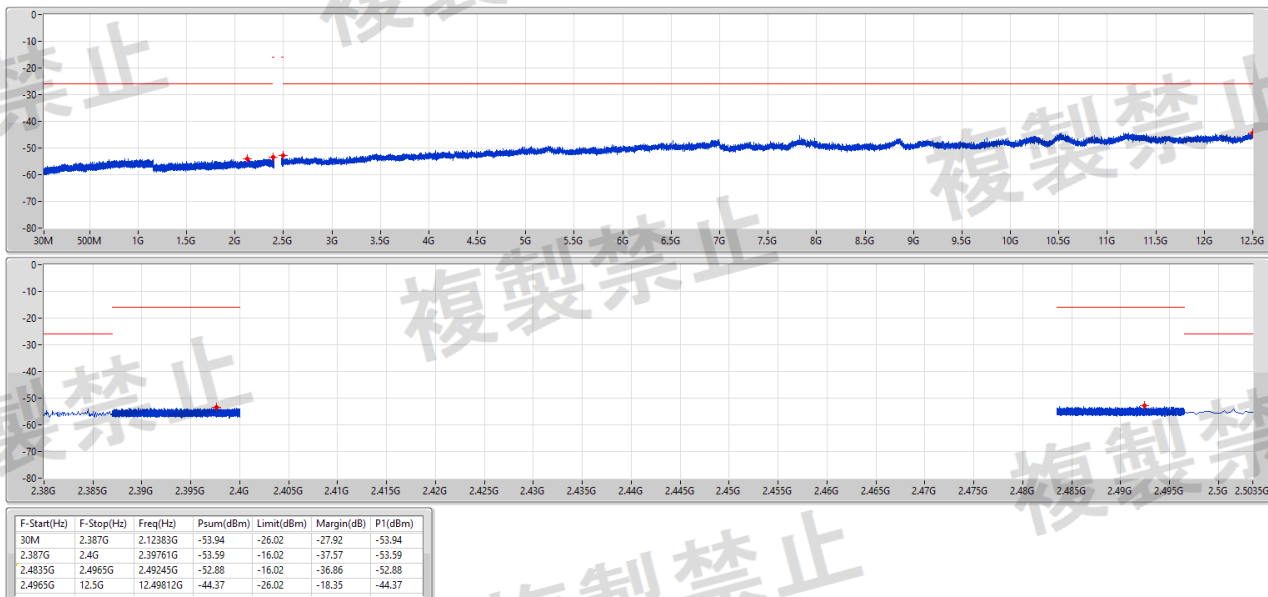


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2440MHz_TnomVmax

21/04/2025



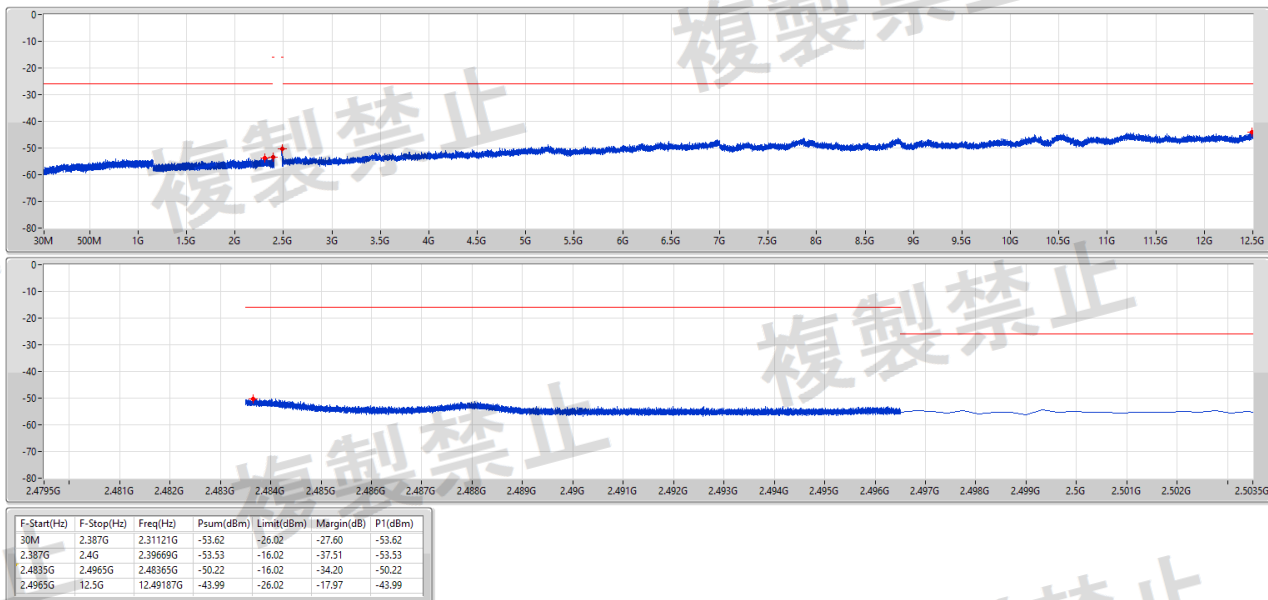


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2480MHz_TnomVnom

21/04/2025

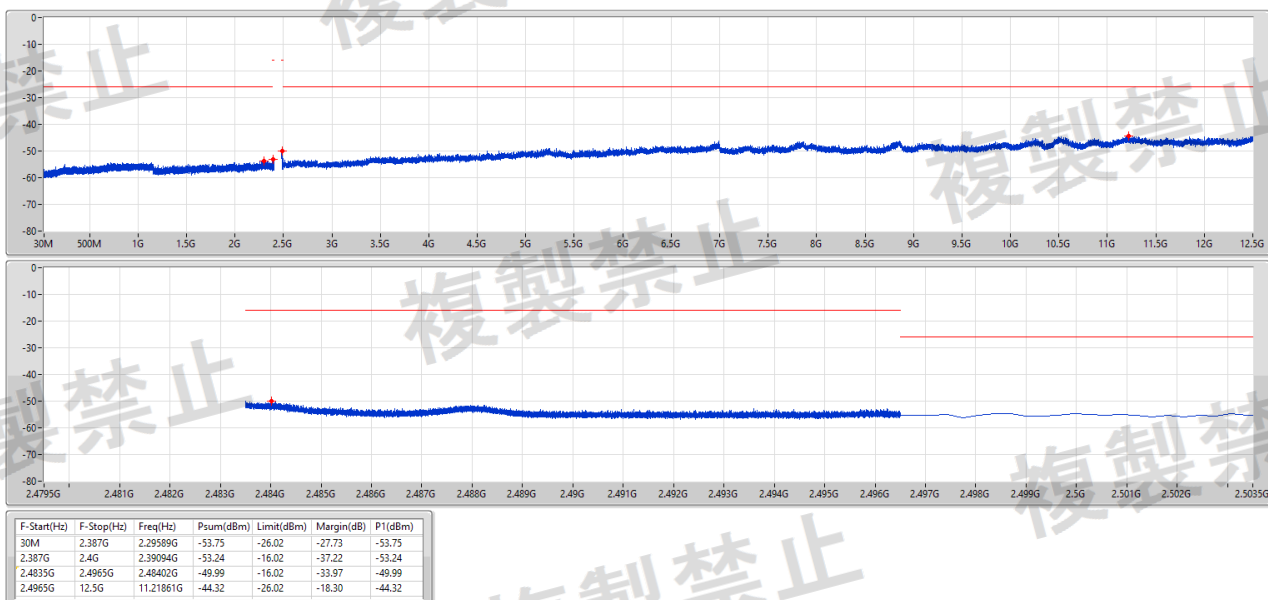


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2480MHz_TnomVmin

21/04/2025



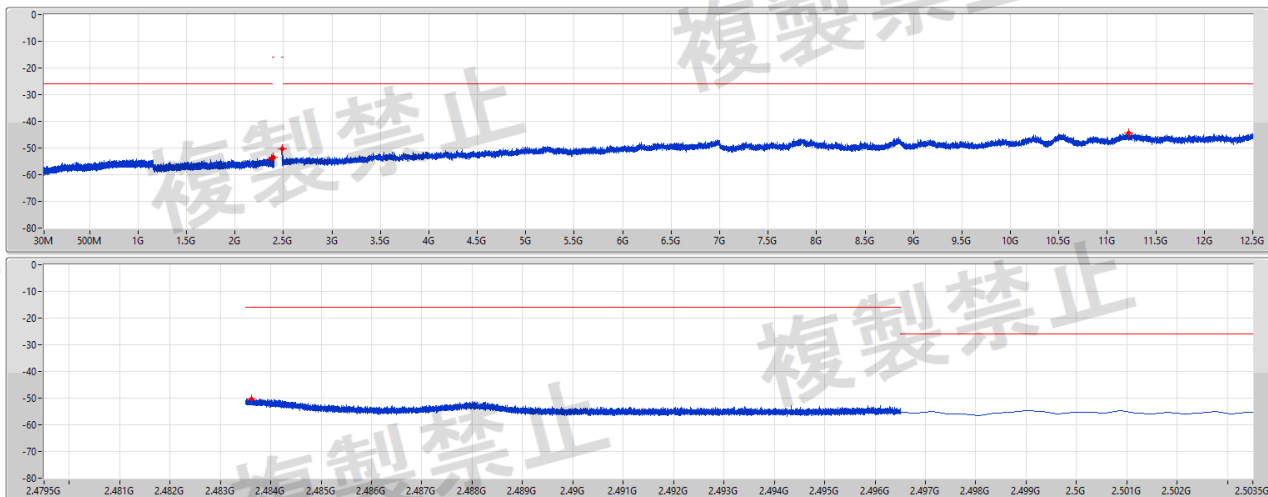


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-TX-DTS

2480MHz_TnomVmax

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.37625G	-54.04	-26.02	-28.02	-54.04
2.387G	2.4G	2.39336G	-53.51	-16.02	-37.49	-53.51
2.4835G	2.4965G	2.48362G	-50.23	-16.02	-34.21	-50.23
2.4965G	12.5G	11.22299G	-44.45	-26.02	-18.43	-44.45



Transmitter Spurious Emissions

Appendix D.

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	2.4965G	12.5G	1M	12.49437G	-43.80	0.04169	-26.02	2.5

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-
2404MHz_TnomVnom	Pass	30M	2.387G	1M	2.30598G	-53.79	0.00418	-26.02	2.5
2404MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39998G	-43.70	0.04266	-16.02	25
2404MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49207G	-52.70	0.00537	-16.02	25
2404MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.49437G	-43.80	0.04169	-26.02	2.5
2404MHz_TnomVmin	Pass	30M	2.387G	1M	1.13801G	-53.99	0.00399	-26.02	2.5
2404MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39995G	-44.06	0.03926	-16.02	25
2404MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48774G	-53.18	0.00481	-16.02	25
2404MHz_TnomVmin	Pass	2.4965G	12.5G	1M	11.22362G	-44.37	0.03656	-26.02	2.5
2404MHz_TnomVmax	Pass	30M	2.387G	1M	1.14412G	-53.76	0.00421	-26.02	2.5
2404MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39997G	-44.23	0.03776	-16.02	25
2404MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48713G	-52.82	0.00522	-16.02	25
2404MHz_TnomVmax	Pass	2.4965G	12.5G	1M	12.49937G	-44.34	0.03681	-26.02	2.5
2440MHz_TnomVnom	Pass	30M	2.387G	1M	955.79M	-54.06	0.00393	-26.02	2.5
2440MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39991G	-53.39	0.00458	-16.02	25
2440MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49217G	-52.81	0.00524	-16.02	25
2440MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.44029G	-44.03	0.03954	-26.02	2.5
2440MHz_TnomVmin	Pass	30M	2.387G	1M	959.32M	-53.85	0.00412	-26.02	2.5
2440MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39496G	-53.21	0.00478	-16.02	25
2440MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48447G	-52.95	0.00507	-16.02	25
2440MHz_TnomVmin	Pass	2.4965G	12.5G	1M	12.49656G	-44.36	0.03664	-26.02	2.5
2440MHz_TnomVmax	Pass	30M	2.387G	1M	2.30207G	-53.74	0.00423	-26.02	2.5
2440MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.38841G	-53.40	0.00457	-16.02	25
2440MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48482G	-53.04	0.00497	-16.02	25
2440MHz_TnomVmax	Pass	2.4965G	12.5G	1M	11.26551G	-44.50	0.03548	-26.02	2.5
2478MHz_TnomVnom	Pass	30M	2.387G	1M	2.27725G	-53.65	0.00432	-26.02	2.5
2478MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.38909G	-53.11	0.00489	-16.02	25
2478MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48354G	-45.71	0.02685	-16.02	25
2478MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.4753G	-44.19	0.03811	-26.02	2.5
2478MHz_TnomVmin	Pass	30M	2.387G	1M	2.38619G	-53.48	0.00449	-26.02	2.5
2478MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39817G	-53.41	0.00456	-16.02	25
2478MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48352G	-46.07	0.02472	-16.02	25
2478MHz_TnomVmin	Pass	2.4965G	12.5G	1M	11.30177G	-44.31	0.03707	-26.02	2.5
2478MHz_TnomVmax	Pass	30M	2.387G	1M	957.55M	-53.32	0.00466	-26.02	2.5
2478MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39981G	-53.68	0.00429	-16.02	25
2478MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48354G	-46.04	0.02489	-16.02	25
2478MHz_TnomVmax	Pass	2.4965G	12.5G	1M	11.26707G	-44.15	0.03846	-26.02	2.5

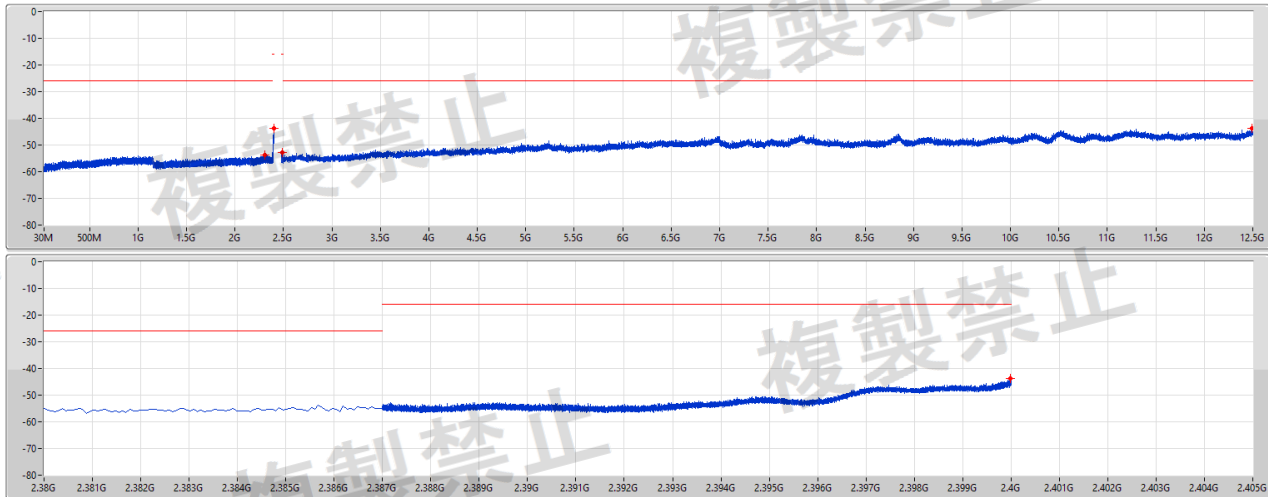


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2404MHz_TnomVnom

21/04/2025



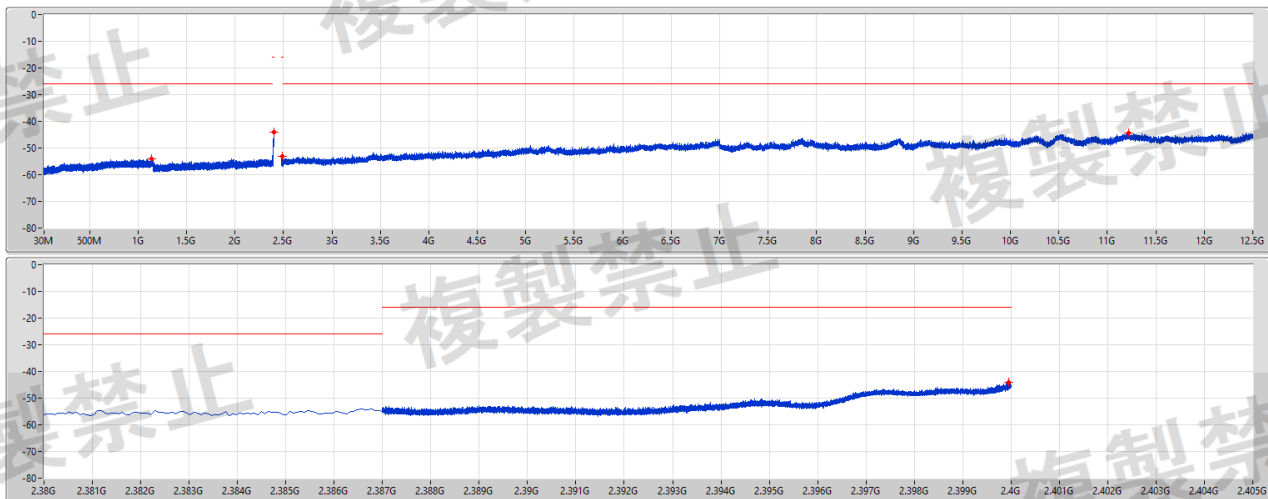
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.30598G	-53.79	-26.02	-27.77	-53.79
2.387G	2.4G	2.39998G	-43.70	-16.02	-27.68	-43.70
2.4835G	2.4965G	2.49207G	-52.70	-16.02	-36.68	-52.70
2.4965G	12.5G	12.49437G	-43.80	-26.02	-17.78	-43.80

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2404MHz_TnomVmin

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.13801G	-53.99	-26.02	-27.97	-53.99
2.387G	2.4G	2.39995G	-44.06	-16.02	-28.04	-44.06
2.4835G	2.4965G	2.48774G	-53.18	-16.02	-37.16	-53.18
2.4965G	12.5G	11.22362G	-44.37	-26.02	-18.35	-44.37

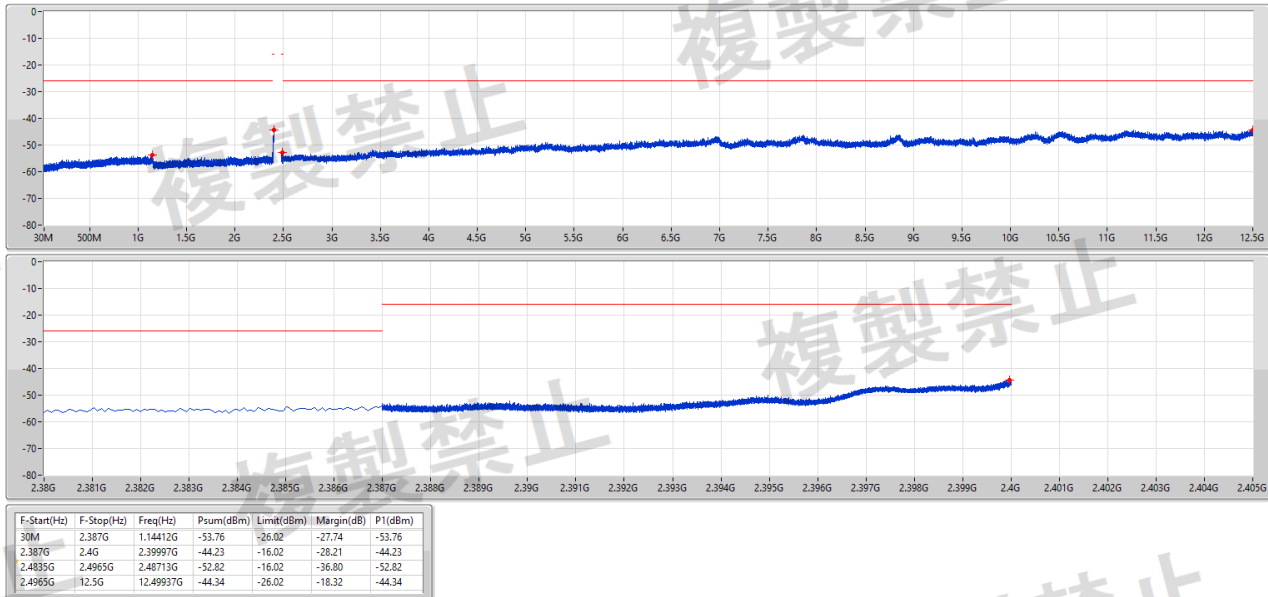


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2404MHz_TnomVmax

21/04/2025

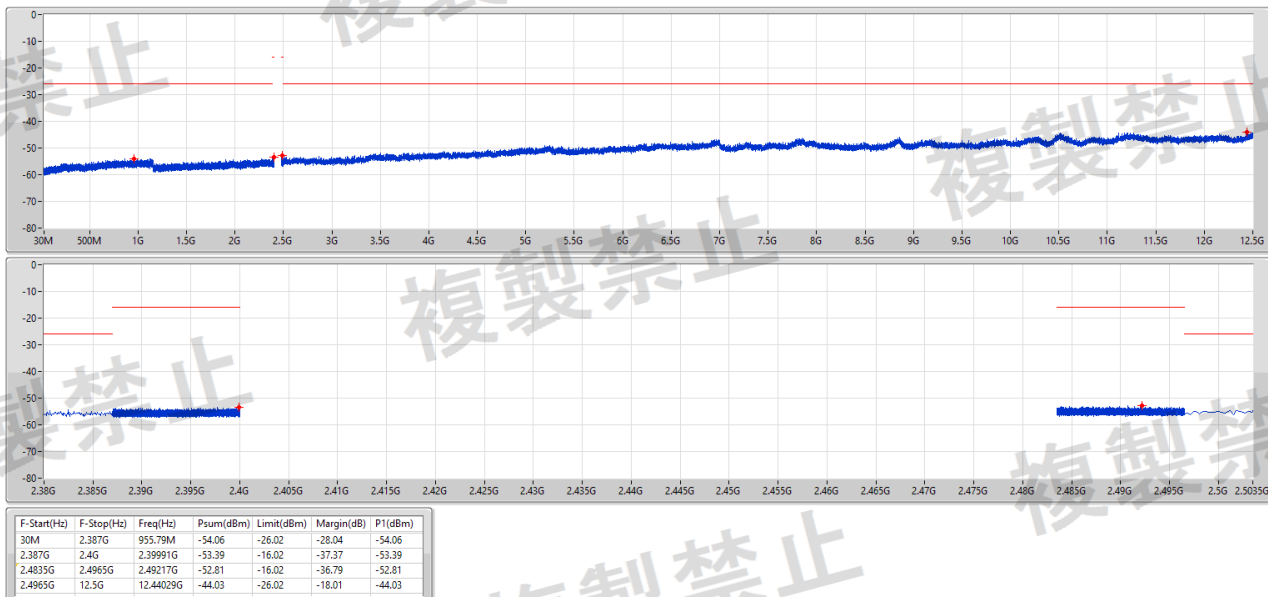


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2440MHz_TnomVnom

21/04/2025



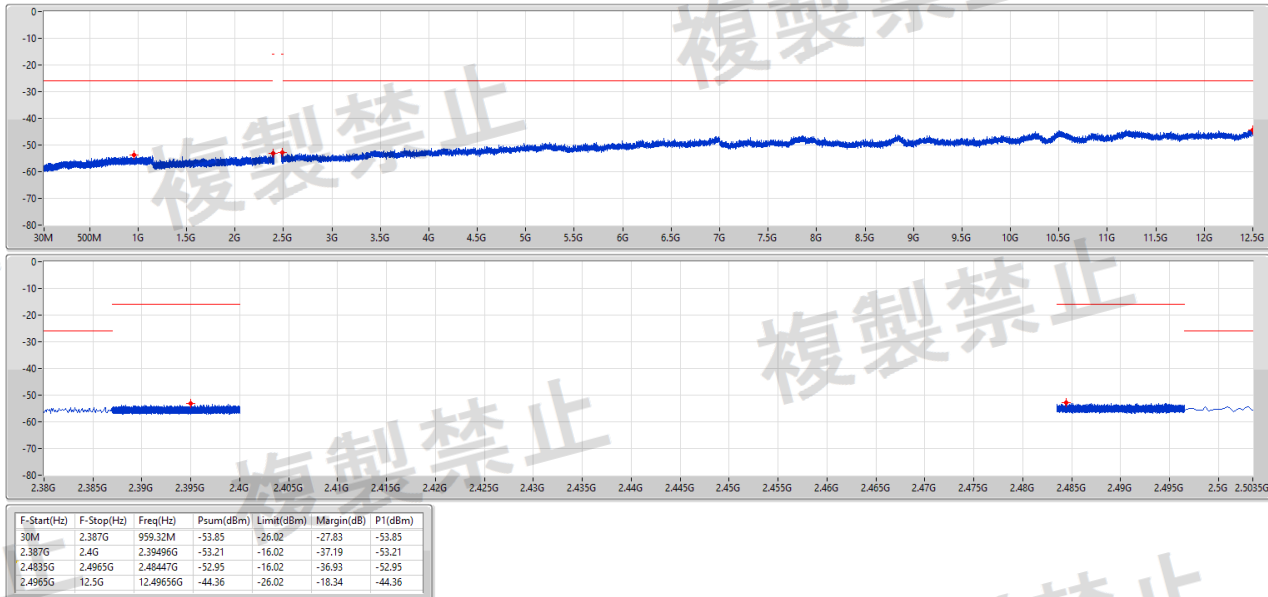


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2440MHz_TnomVmin

21/04/2025

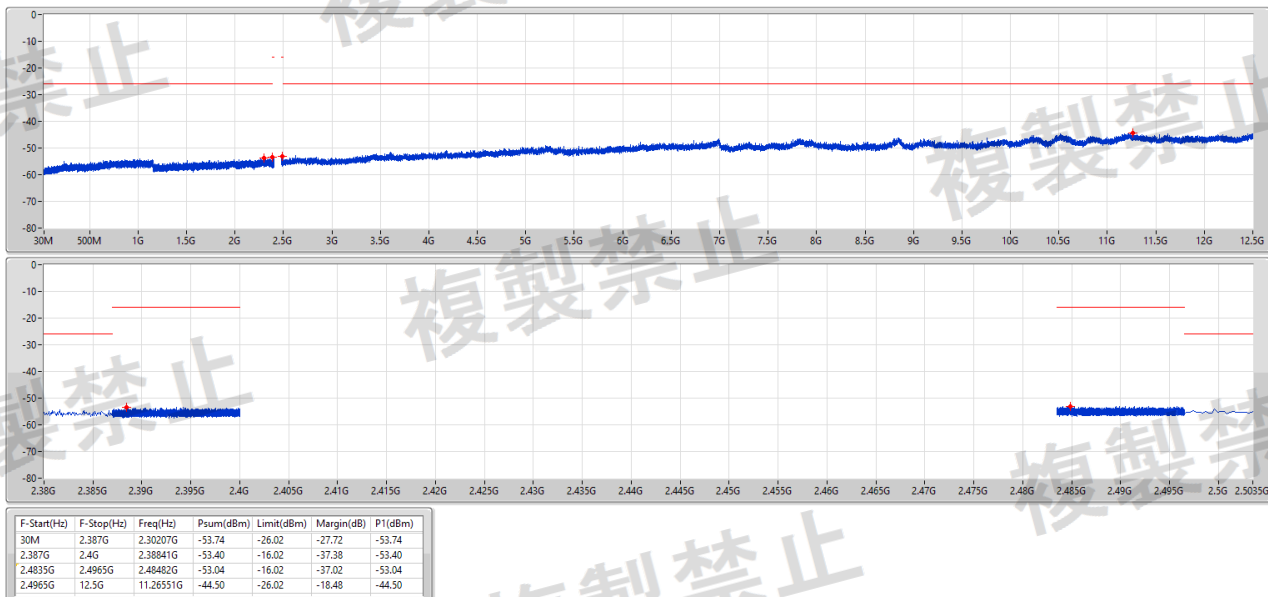


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2440MHz_TnomVmax

21/04/2025



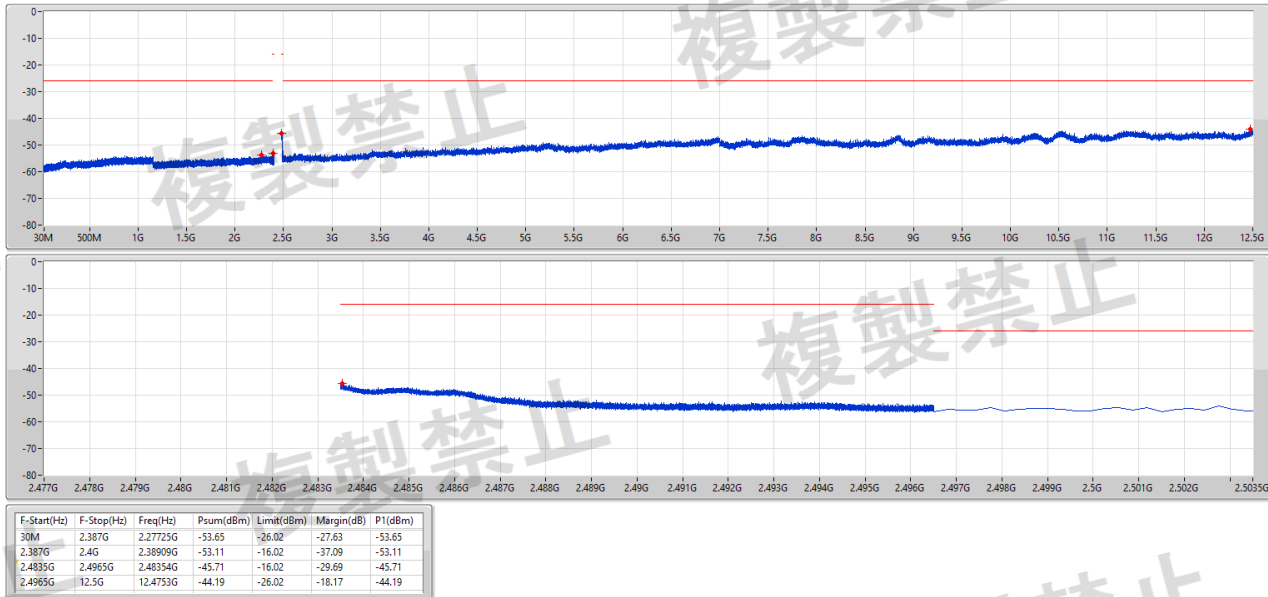


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2478MHz_TnomVnom

21/04/2025

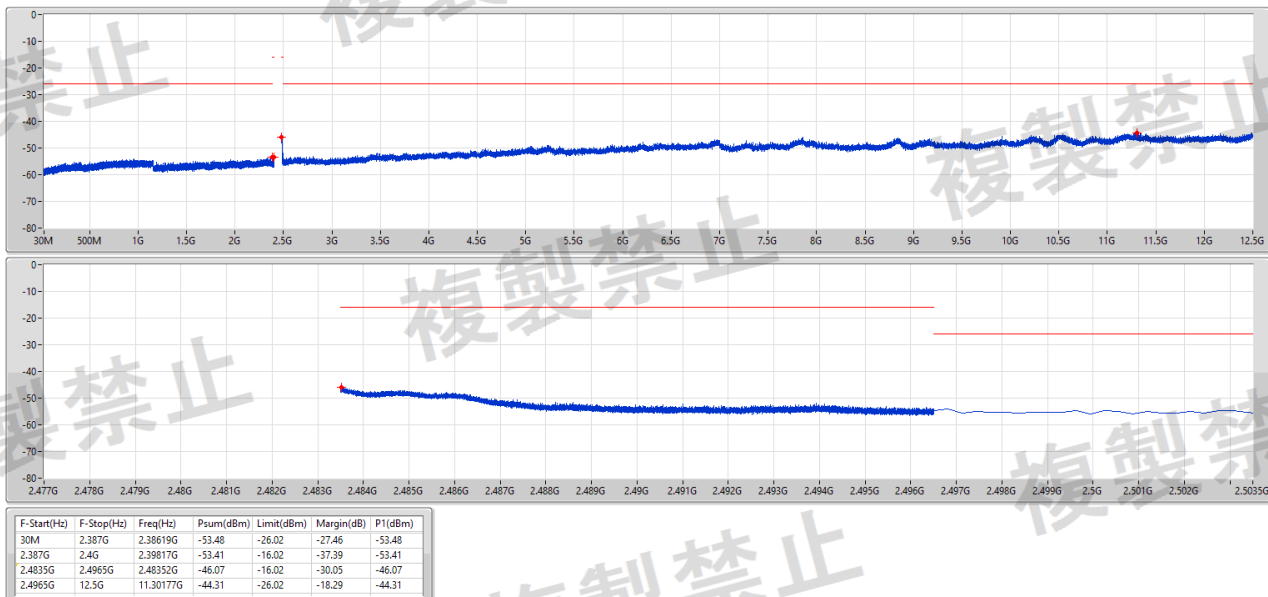


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2478MHz_TnomVmin

21/04/2025



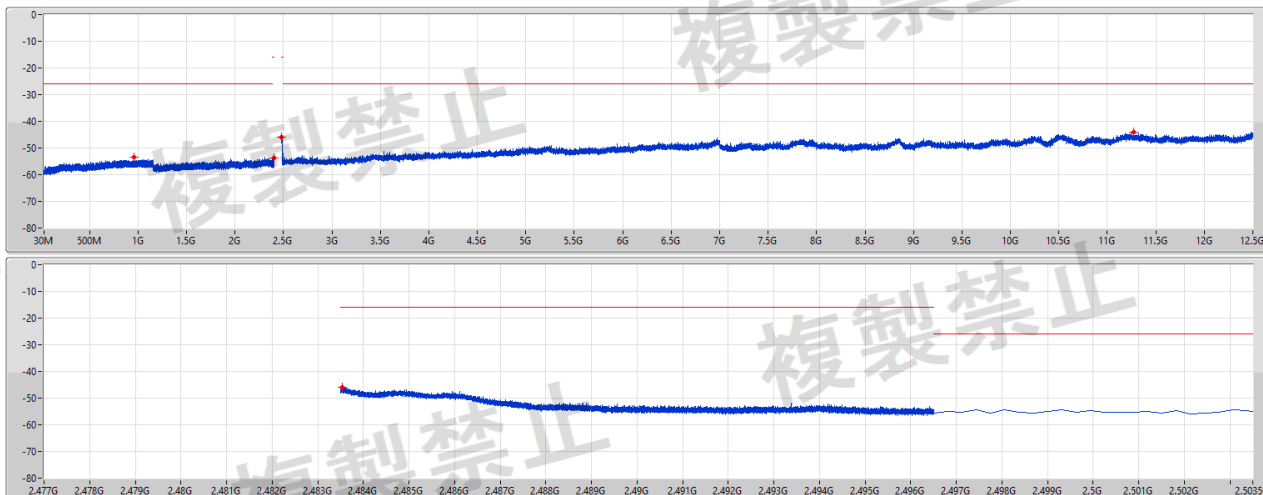


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-TX-DTS

2478MHz_TnomVmax

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	957.55M	-53.32	-26.02	-27.30	-53.32
2.387G	2.4G	2.39981G	-53.68	-16.02	-37.66	-53.68
2.4835G	2.4965G	2.48354G	-46.04	-16.02	-30.02	-46.04
2.4965G	12.5G	11.26707G	-44.15	-26.02	-18.13	-44.15

**Summary**

Mode	Result	MAC (ID Length)	ID Limit	Function
2.4-2.4835GHz	-	-	-	-
BT-LE(1Mbps)	Pass	DC:61:59:15:A6:8C	48 bits	Good

Result

Mode	Result	MAC (ID Length)	ID Limit	Function
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	DC:61:59:15:A6:8C	48 bits	Good
2402MHz_TnomVmin	Pass	DC:61:59:15:A6:8C	48 bits	Good
2402MHz_TnomVmax	Pass	DC:61:59:15:A6:8C	48 bits	Good
2440MHz_TnomVnom	Pass	DC:61:59:15:A6:8C	48 bits	Good
2440MHz_TnomVmin	Pass	DC:61:59:15:A6:8C	48 bits	Good
2440MHz_TnomVmax	Pass	DC:61:59:15:A6:8C	48 bits	Good
2480MHz_TnomVnom	Pass	DC:61:59:15:A6:8C	48 bits	Good
2480MHz_TnomVmin	Pass	DC:61:59:15:A6:8C	48 bits	Good
2480MHz_TnomVmax	Pass	DC:61:59:15:A6:8C	48 bits	Good

**Summary**

Mode	Result	MAC (ID Length)	ID Limit	Function
2.4-2.4835GHz	-	-	-	-
BT-LE(2Mbps)	Pass	DC:61:59:15:A6:8C	48 bits	Good

Result

Mode	Result	MAC (ID Length)	ID Limit	Function
BT-LE(2Mbps)	-	-	-	-
2404MHz_TnomVnom	Pass	DC:61:59:15:A6:8C	48 bits	Good
2404MHz_TnomVmin	Pass	DC:61:59:15:A6:8C	48 bits	Good
2404MHz_TnomVmax	Pass	DC:61:59:15:A6:8C	48 bits	Good
2440MHz_TnomVnom	Pass	DC:61:59:15:A6:8C	48 bits	Good
2440MHz_TnomVmin	Pass	DC:61:59:15:A6:8C	48 bits	Good
2440MHz_TnomVmax	Pass	DC:61:59:15:A6:8C	48 bits	Good
2478MHz_TnomVnom	Pass	DC:61:59:15:A6:8C	48 bits	Good
2478MHz_TnomVmin	Pass	DC:61:59:15:A6:8C	48 bits	Good
2478MHz_TnomVmax	Pass	DC:61:59:15:A6:8C	48 bits	Good



Receiver Spurious Emissions

Appendix F.

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	1G	12.5G	1M	10.54069G	-78.10	0.01549	-46.99	20

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	1G	100k	916.73M	-90.37	0.00092	-53.98	4
2402MHz_TnomVnom	Pass	1G	12.5G	1M	10.50619G	-79.00	0.01259	-46.99	20
2402MHz_TnomVmin	Pass	30M	1G	100k	824.79M	-90.08	0.00098	-53.98	4
2402MHz_TnomVmin	Pass	1G	12.5G	1M	10.54069G	-78.10	0.01549	-46.99	20
2402MHz_TnomVmax	Pass	30M	1G	100k	960.14M	-90.23	0.00095	-53.98	4
2402MHz_TnomVmax	Pass	1G	12.5G	1M	11.38091G	-79.16	0.01213	-46.99	20
2440MHz_TnomVnom	Pass	30M	1G	100k	867.56M	-90.10	0.00098	-53.98	4
2440MHz_TnomVnom	Pass	1G	12.5G	1M	11.21775G	-79.20	0.01202	-46.99	20
2440MHz_TnomVmin	Pass	30M	1G	100k	640.92M	-90.77	0.00084	-53.98	4
2440MHz_TnomVmin	Pass	1G	12.5G	1M	10.49541G	-79.25	0.01189	-46.99	20
2440MHz_TnomVmax	Pass	30M	1G	100k	638.46M	-90.91	0.00081	-53.98	4
2440MHz_TnomVmax	Pass	1G	12.5G	1M	12.45292G	-78.93	0.01279	-46.99	20
2480MHz_TnomVnom	Pass	30M	1G	100k	973.2M	-90.45	0.0009	-53.98	4
2480MHz_TnomVnom	Pass	1G	12.5G	1M	10.50295G	-78.96	0.01271	-46.99	20
2480MHz_TnomVmin	Pass	30M	1G	100k	766.32M	-90.28	0.00094	-53.98	4
2480MHz_TnomVmin	Pass	1G	12.5G	1M	10.52056G	-78.96	0.01271	-46.99	20
2480MHz_TnomVmax	Pass	30M	1G	100k	781.39M	-90.69	0.00085	-53.98	4
2480MHz_TnomVmax	Pass	1G	12.5G	1M	8.84156G	-79.15	0.01216	-46.99	20

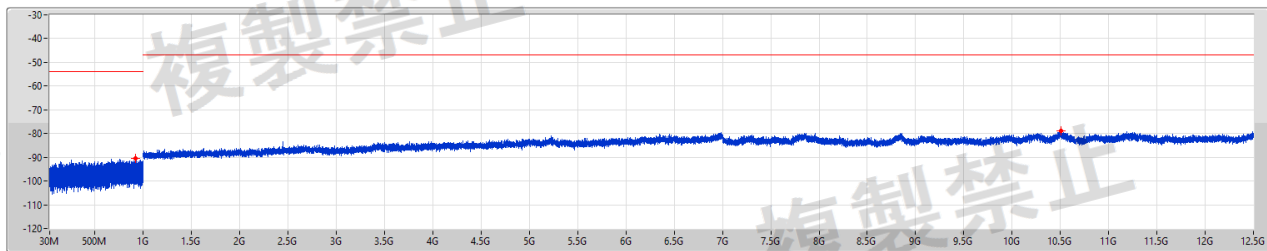


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2402MHz_TnomVnom

21/04/2025



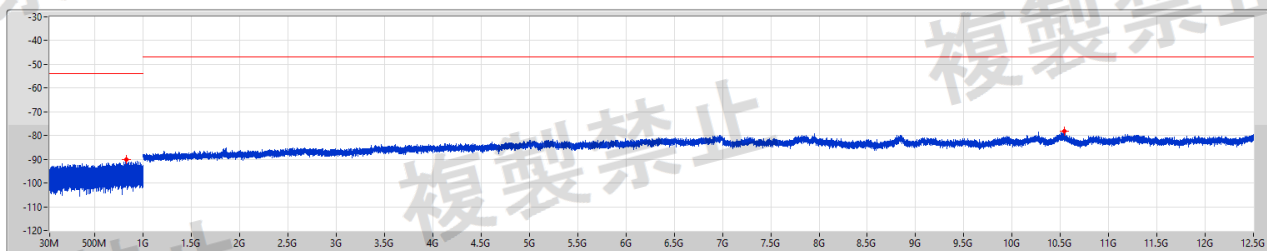
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	916.73M	-90.37	-53.98	-36.39	-90.37
1G	12.5G	10.50619G	-79.00	-46.99	-32.01	-79.00

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2402MHz_TnomVmin

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	824.79M	-90.08	-53.98	-36.10	-90.08
1G	12.5G	10.54069G	-78.10	-46.99	-31.11	-78.10

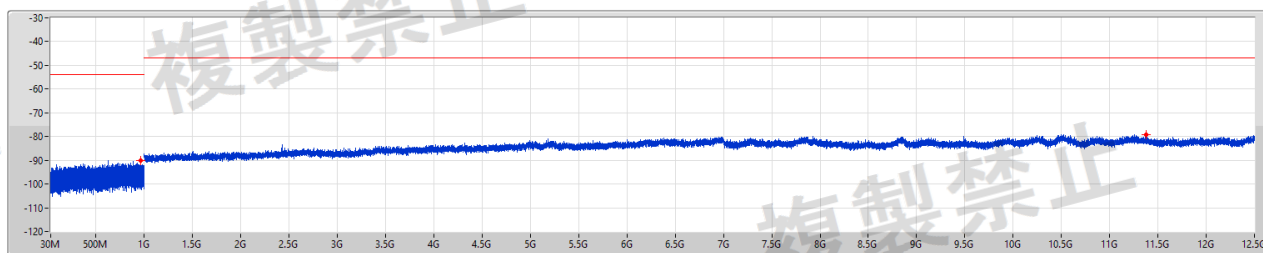


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2402MHz_TnomVmax

21/04/2025



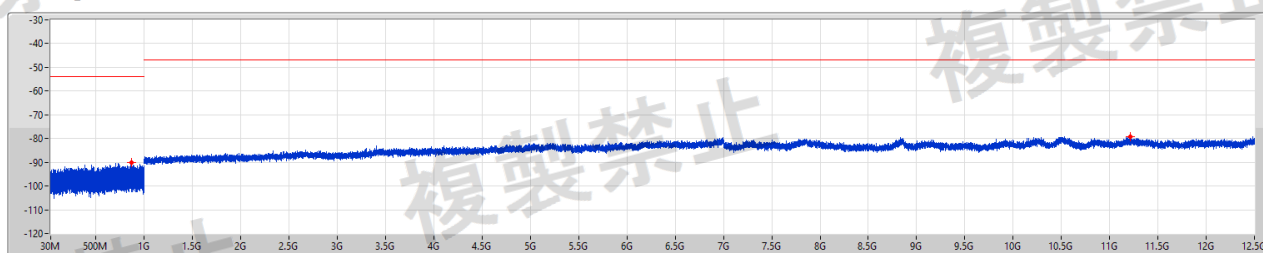
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	960.14M	-90.23	-53.98	-36.25	-90.23
1G	12.5G	11.38091G	-79.16	-46.99	-32.17	-79.16

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2440MHz_TnomVnom

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	867.56M	-90.10	-53.98	-36.12	-90.10
1G	12.5G	11.21775G	-79.20	-46.99	-32.21	-79.20

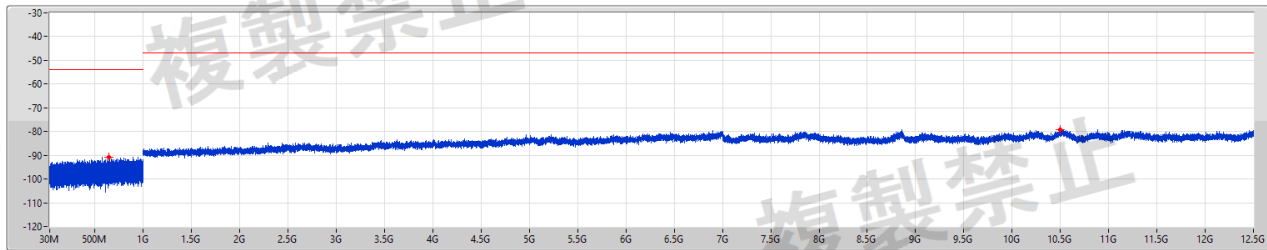


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2440MHz_TnomVmin

21/04/2025



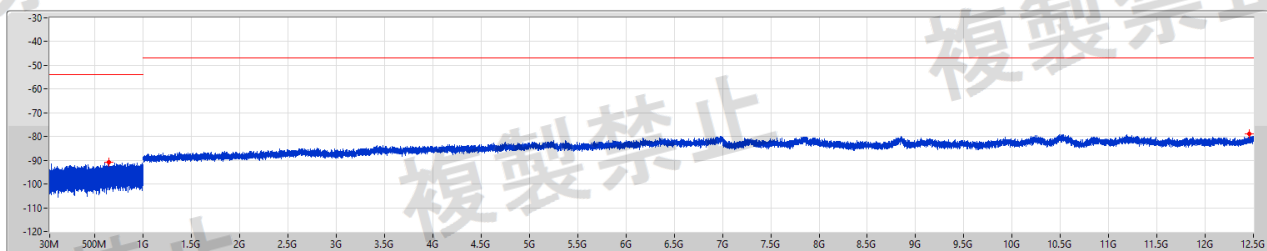
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	640.92M	-90.77	-53.98	-36.79	-90.77
1G	12.5G	10.49541G	-79.25	-46.99	-32.26	-79.25

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2440MHz_TnomVmax

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	638.46M	-90.91	-53.98	-36.93	-90.91
1G	12.5G	12.45292G	-78.93	-46.99	-31.94	-78.93

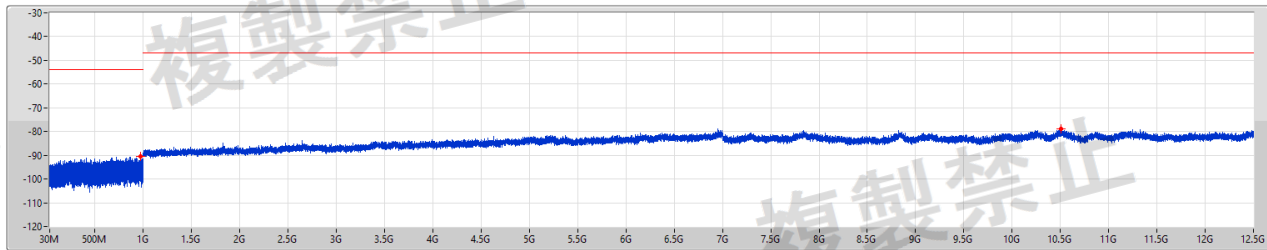


2.4-2.4835GHz_BT-LE(1Mbps)

CSE-RX-DTS

2480MHz_TnomVnom

21/04/2025



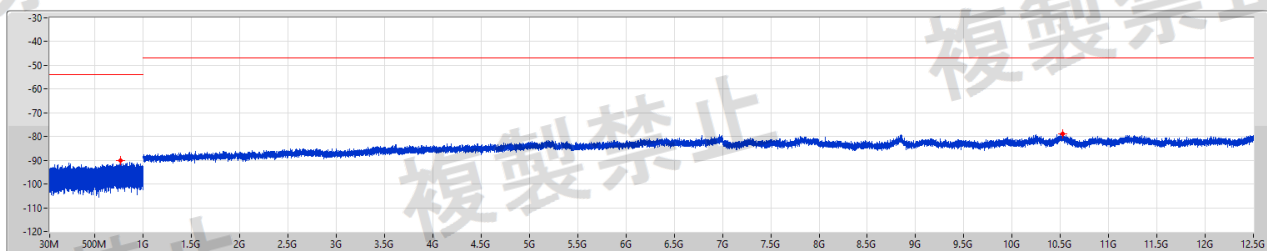
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	973.2M	-90.45	-53.98	-36.47	-90.45
1G	12.5G	10.50295G	-78.96	-46.99	-31.97	-78.96

2.4-2.4835GHz_BT-LE(1Mbps)

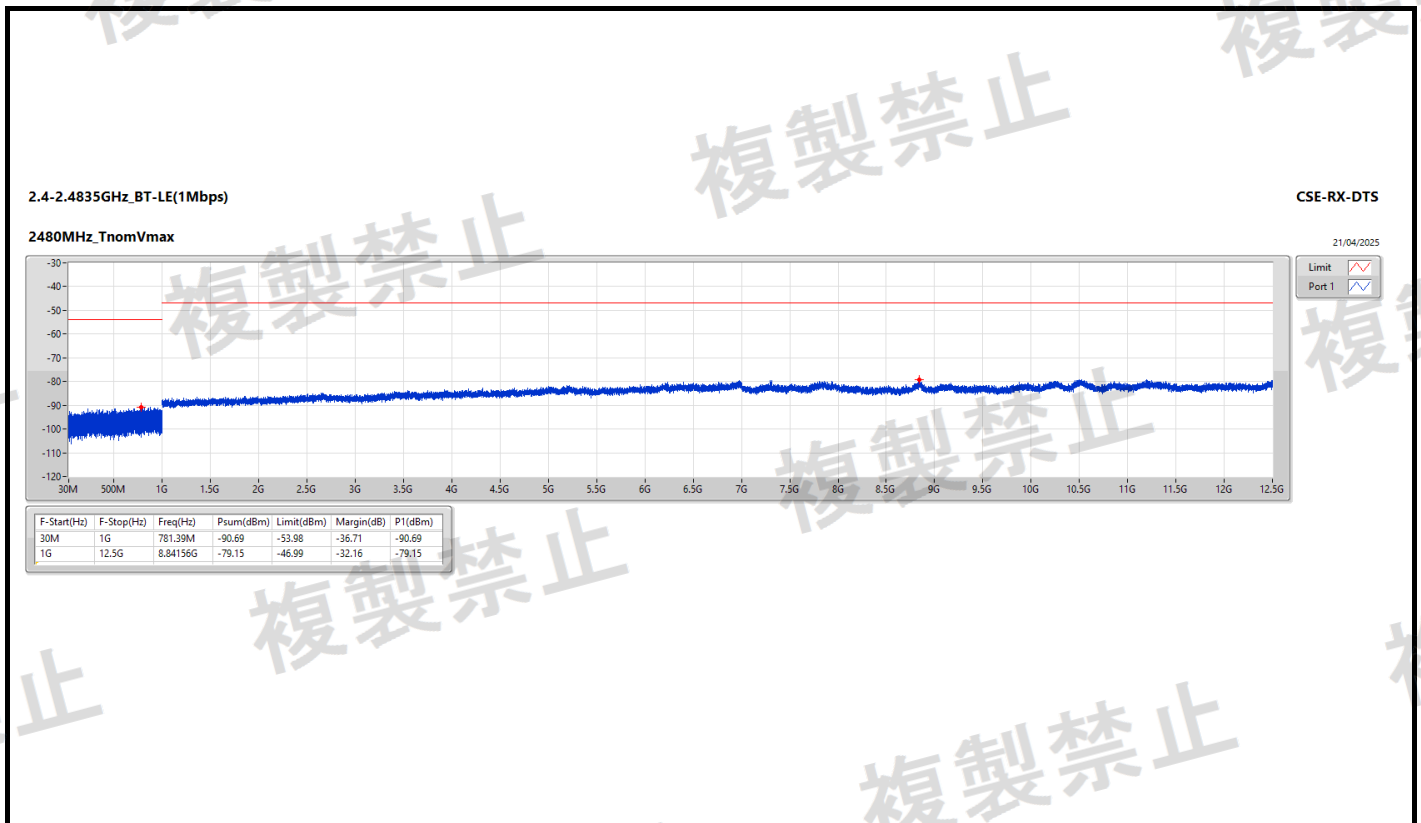
CSE-RX-DTS

2480MHz_TnomVmin

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	766.32M	-90.28	-53.98	-36.30	-90.28
1G	12.5G	10.50295G	-78.96	-46.99	-31.97	-78.96





Receiver Spurious Emissions

Appendix F.

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	1G	12.5G	1M	10.46881G	-78.51	0.01409	-46.99	20

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-
2404MHz_TnomVnom	Pass	30M	1G	100k	866.29M	-90.04	0.00099	-53.98	4
2404MHz_TnomVnom	Pass	1G	12.5G	1M	10.52847G	-78.96	0.01271	-46.99	20
2404MHz_TnomVmin	Pass	30M	1G	100k	666.35M	-90.47	0.0009	-53.98	4
2404MHz_TnomVmin	Pass	1G	12.5G	1M	10.50798G	-78.63	0.01371	-46.99	20
2404MHz_TnomVmax	Pass	30M	1G	100k	853.71M	-90.25	0.00094	-53.98	4
2404MHz_TnomVmax	Pass	1G	12.5G	1M	10.5105G	-79.19	0.01205	-46.99	20
2440MHz_TnomVnom	Pass	30M	1G	100k	987.06M	-89.84	0.00104	-53.98	4
2440MHz_TnomVnom	Pass	1G	12.5G	1M	10.46881G	-78.51	0.01409	-46.99	20
2440MHz_TnomVmin	Pass	30M	1G	100k	907.33M	-90.26	0.00094	-53.98	4
2440MHz_TnomVmin	Pass	1G	12.5G	1M	10.50152G	-78.83	0.01309	-46.99	20
2440MHz_TnomVmax	Pass	30M	1G	100k	905.7M	-89.78	0.00105	-53.98	4
2440MHz_TnomVmax	Pass	1G	12.5G	1M	10.50152G	-79.15	0.01216	-46.99	20
2478MHz_TnomVnom	Pass	30M	1G	100k	999.82M	-90.16	0.00096	-53.98	4
2478MHz_TnomVnom	Pass	1G	12.5G	1M	10.52523G	-78.83	0.01309	-46.99	20
2478MHz_TnomVmin	Pass	30M	1G	100k	854.02M	-89.92	0.00102	-53.98	4
2478MHz_TnomVmin	Pass	1G	12.5G	1M	10.54428G	-78.88	0.01294	-46.99	20
2478MHz_TnomVmax	Pass	30M	1G	100k	866.78M	-90.43	0.00091	-53.98	4
2478MHz_TnomVmax	Pass	1G	12.5G	1M	11.32592G	-78.89	0.01291	-46.99	20

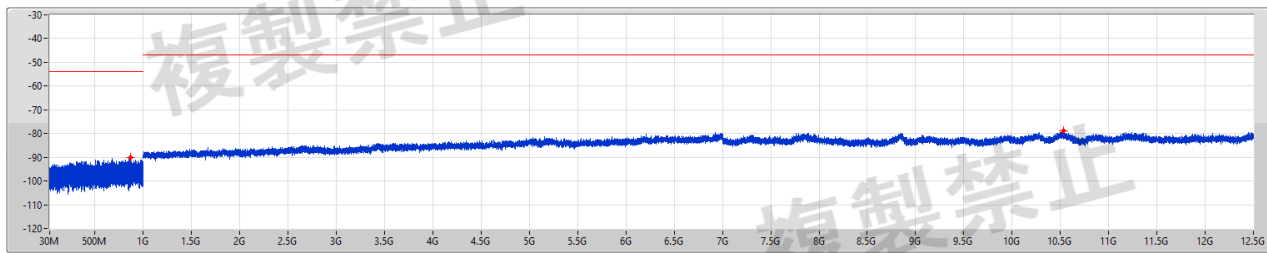


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2404MHz_TnomVnom

21/04/2025



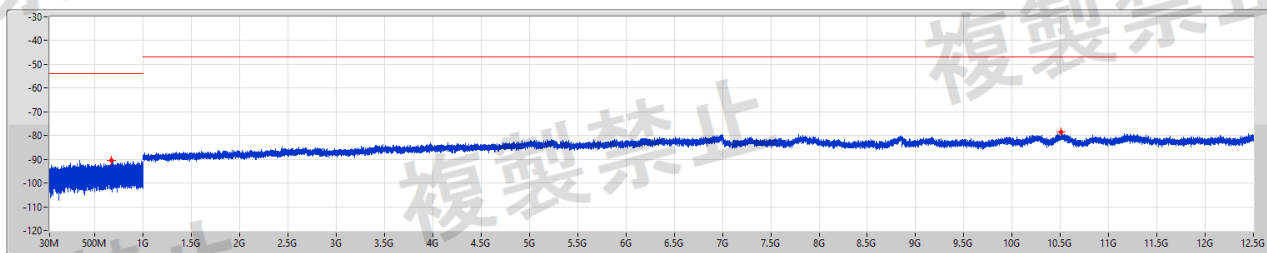
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	866.29M	-90.04	-53.98	-36.06	-90.04
1G	12.5G	10.52847G	-78.96	-46.99	-31.97	-78.96

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2404MHz_TnomVmin

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	666.35M	-90.47	-53.98	-36.49	-90.47
1G	12.5G	10.50798G	-78.63	-46.99	-31.64	-78.63

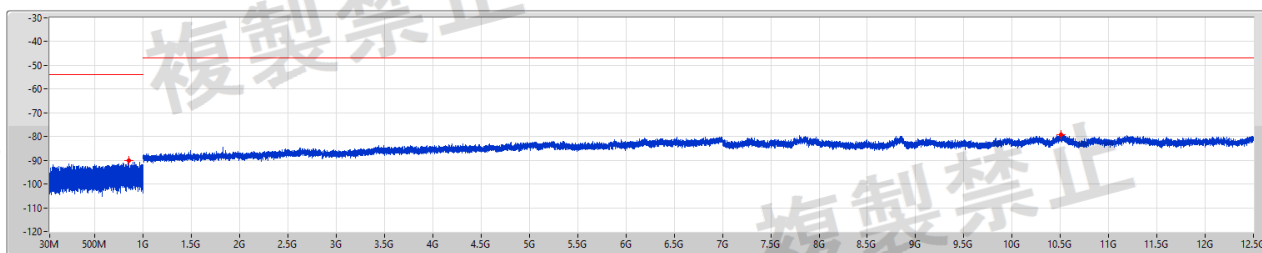


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2404MHz_TnomVmax

21/04/2025



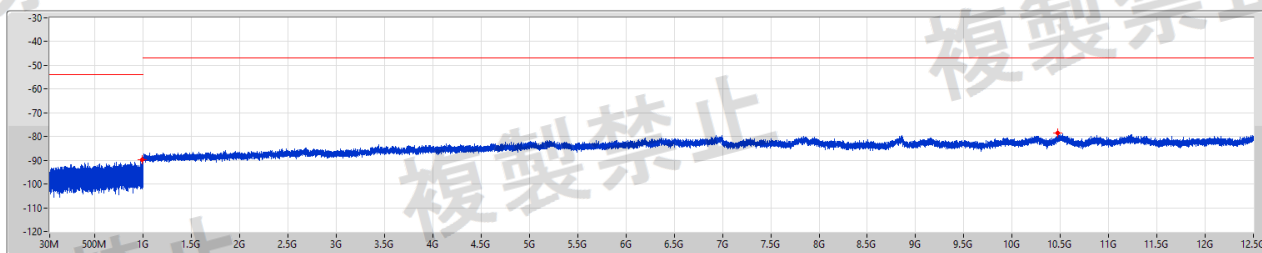
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	853.71M	-90.25	-53.98	-36.27	-90.25
1G	12.5G	10.5105G	-79.19	-46.99	-32.20	-79.19

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2440MHz_TnomVnom

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	987.06M	-89.84	-53.98	-35.86	-89.84
1G	12.5G	10.46881G	-78.51	-46.99	-31.52	-78.51

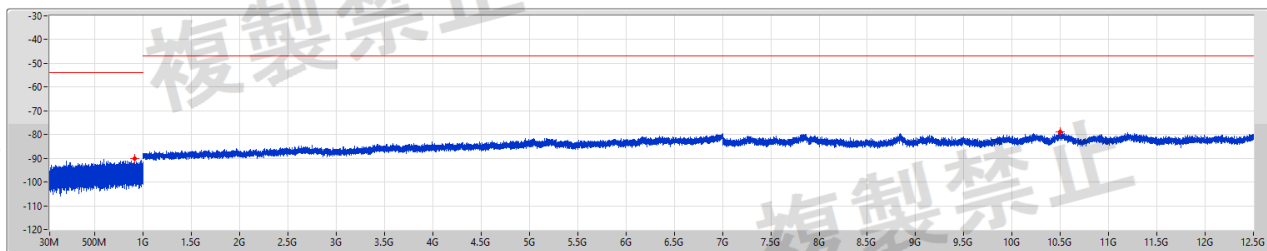


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2440MHz_TnomVmin

21/04/2025



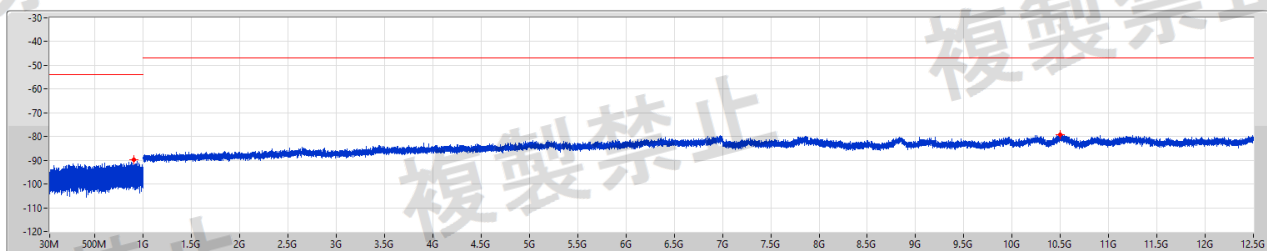
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	907.33M	-90.26	-53.98	-36.28	-90.26
1G	12.5G	10.50152G	-78.83	-46.99	-31.84	-78.83

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2440MHz_TnomVmax

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	905.7M	-89.78	-53.98	-35.80	-89.78
1G	12.5G	10.50152G	-79.15	-46.99	-32.16	-79.15

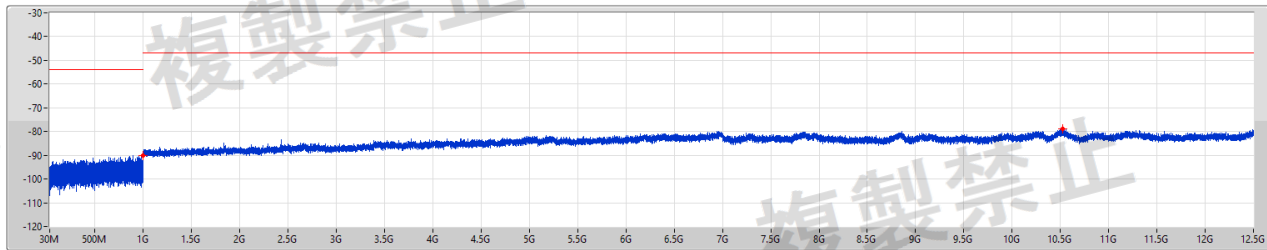


2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2478MHz_TnomVnom

21/04/2025



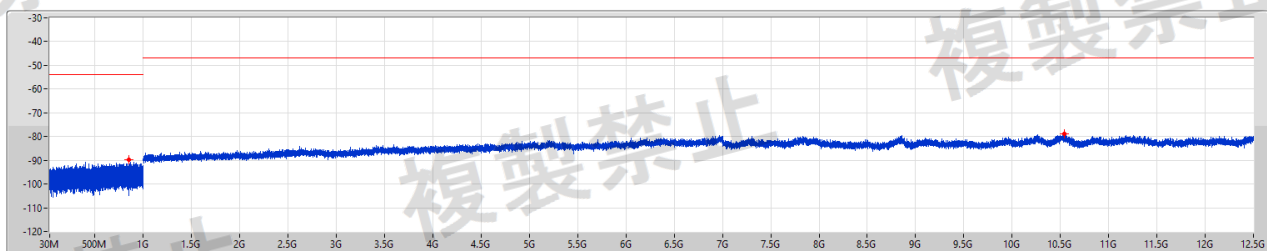
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	999.82M	-90.16	-53.98	-36.18	-90.16
1G	12.5G	10.52523G	-78.83	-46.99	-31.84	-78.83

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-RX-DTS

2478MHz_TnomVmin

21/04/2025



F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	854.02M	-89.92	-53.98	-35.94	-89.92
1G	12.5G	10.54428G	-78.88	-46.99	-31.89	-78.88

