

TEST REPORT

Applicant Name: Shenzhen Hollyland Technology Co., Ltd
Address: 8F, Building 5D, Skyworth Innovation Valley, Tangtou Road,
Shiyan Street, Baoan District, Shenzhen, 518055 China
Report Number: 2501T45782E-RF-07A

Test Standard (s)

Item 19 of Article 2 Paragraph 1

Sample Description

Product Type: Full-Duplex Wireless Intercom System
Model No.: Solidcom BPK01
Multiple Model(s) No.: Solidcom H1
Trade Mark: HOLLYLAND, HOLLYVIEW
Date Received: 2025/05/28
Issue Date: 2025/07/10

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Ekko Wu

Ekko Wu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China

Tel: +86-755-33320018

Fax: +86-755-33320008

www.baclcorp.com.cn

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501T45782E-RF-07A	Original Report	2025/07/10

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product		Full-Duplex Wireless Intercom System
Tested Model		Solidcom BPK01
Multiple Model(s)		Solidcom H1
Radio Type		Bluetooth
Technical Parameters	Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
	Frequency Range	2402-2480MHz
	Rated Output Power	0.05mW/MHz for BDR/EDR Mode
	Antenna Gain[#]	1.74dBi (It is provided by the applicant)
Nominal Power Supply		DC 3.8V from battery or DC 5V from USB-C port/ Charging contacts
Sample serial number		33NI-2(Assigned by BACL, Shenzhen)
Sample/EUT Status		Good condition
Adapter Information		N/A
Note: The Multiple models are electrically identical with the test model except for model name and sales channel. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.		

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19 of Article 2 Paragraph 1, rules and limits for this device including:

- Frequency Error
- Occupied Bandwidth and Spreading Bandwidth
- Transmitter Spurious Emission and Unwanted Emission Intensity
- Antenna Output Power And Output Power Tolerance
- Receiver Spurious Emission Strength
- Frequency Hopping Dwell Time
- Interference Prevention Function
- Construction Protection Confirmation

Test Method

MIC Notice No.88 Appendix No.43

Measurement Uncertainty

Item	Expanded Measurement uncertainty
Frequency Error	56.6Hz(k=2, 95% level of confidence)
Occupied Channel Bandwidth	109.2kHz(k=2, 95% level of confidence)
RF output power, conducted	0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted	1.60dB(k=2, 95% level of confidence)
Duty Cycle	±1%
Temperature	±1°C
Supply voltages	±0.4%
Humidity	±1%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Each test item follows test standards and with no deviation.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a testing mode which was selected by manufacturer.

The EUT has the voltage regulator chip SY8088IAAC which has a fluctuation of the output voltage to the RF circuit is less than $\pm 1\%$. So only test at the normal voltage ($3.8V_{DC}$).

EUT Exercise Software

“XCOM V2.0” exercise software was used and the power level is Default#. The software and power level was provided by the manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

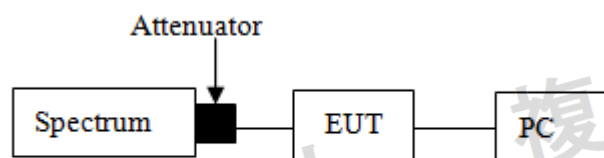
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	PC	Latitude E5430	37K4X AOO

External I/O Cable

Cable Description	Length(m)	From/Port	To
Un-shielded detachable USB cable	0.8	EUT	PC

Configuration of Test Setup



SUMMARY OF TEST RESULTS

Item	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth and Spreading 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	Interference Prevention Function	Compliant
7	Frequency Hopping Dwell Time	Compliant
8	Construction Protection Confirmation	Compliant
10	Transmission Radiation Angle Width	Not Applicable
11	Transmission Antenna Gain	Not Applicable

Not Applicable - This test item was not required for the output power less than 6.91 dBm/MHz (E.I.R.P)

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2024/12/04	2025/12/03	BACL Cal	c)
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	146520	2025/04/29	2026/04/28	BACL Cal	c)
Tonscend	RF control Unit	JS0806-2	19D8060154	2024/08/06	2025/08/05	BACL Cal	c)
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26	BACL	d)
Unknown	10dB Attenuator	Unknown	F-03-EM190	2025/06/26	2026/06/25	BACL	d)

Note: Calibration Method

a) Calibration conducted by the National Institute of Information and Communications Technology (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) ~Japan Calibration Service System~

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 other equipment that listed above from a) to c)

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

REQUIREMENTS AND TEST PROCEDURES

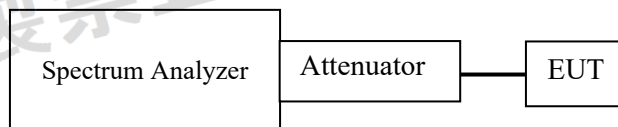
Frequency Error

Limit

50 ppm or below

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous carrier wave without modulation” by stopping frequency-hopping mode.

Spectrum Analyzer Conditions

- Center Frequency: Frequency to measure (2402 MHz, 2441MHz, and 2480MHz)
- RBW: 10 kHz, VBW: 10 kHz
- Span: 2MHz
- Sweep time: Auto
- Log scale: 10dB/Div, Data points: 400 points or more
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak
- Sweep mode: Single Sweep
- Marker: Spot

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

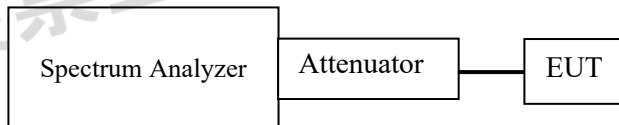
Occupied Bandwidth and Spreading Bandwidth

Limit

- Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM, DS $\leq$ 26 MHz; Others $\leq$ 26 MHz
- Spread Bandwidth: $\geq$ 500 kHz (FH,DS), Spread factor $>$ 5.

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be “continuous frequency-hopping mode” by spread spectrum.

Spectrum Analyzer Conditions

- RBW: 300 kHz
- VBW: 300 kHz
- Sweep time: Auto(Minimum time to ensure measurement accuracy.)
- Log scal: 10dB/Div
- Data points : 400 points or more
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak, Sweep mode: Continuous

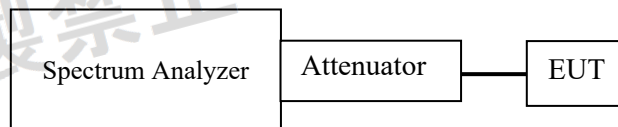
Transmitter Spurious Emission Strength and Unwanted Emission Intensity

Limit

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

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

Spectrum Analyzer Conditions

- Span: Measuring Frequency Range
- RBW: 1MHz (frequency range; 1GHz over), 100kHz (frequency range; 30MHz to 1GHz)
- VBW: Same as RBW (1MHz or 100kHz)
- Sweep time: Auto(Minimum time to ensure measurement accuracy.)
- Data points : 400 points or more
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak

If the measured value is under the technical standard value, do not need to measure more detail.

Antenna Output Power and Antenna Power Tolerance

Limit

- $\leq 3 \text{ mW /MHz}$ (FHSS from 2402-2480 MHz)
- $\leq 10 \text{ mW/MHz}$ (OFDM, DSSS from 2400-2483.5 MHz)
- $\leq 10 \text{ mW}$ (other from 2400-2483.5 MHz)
- EIRP: $\leq 6.91 \text{ dBm/MHz}$

The Output Power Tolerance must be within +20%, -80%.

Test Procedure

For FHSS UUT:

□

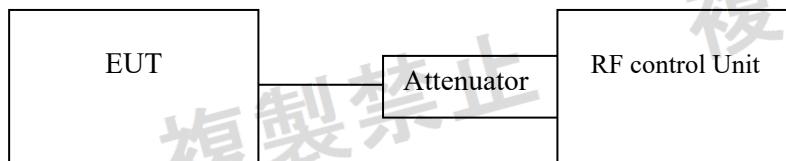
Step 1: Measure the total power by Power Meter in a state of hopping mode

Step 2: Set the power meter to trace average across the pulse on period, record the reading level on power meter.

Step 3: Calculate the mean power per 1MHz by dividing the reading level by spread bandwidth.

Output Power Density (mW/MHz) = Reading (mW) / Spread Bandwidth (MHz)

Test Setup Block diagram



Note: the power meter was integrated in the RF control Unit.

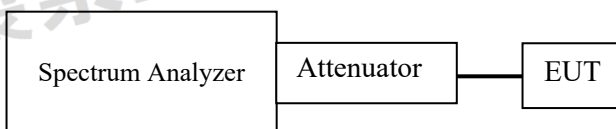
Receiver Spurious Emission and Unwanted Emission Intensity

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

Measurement System Diagram



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 or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 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

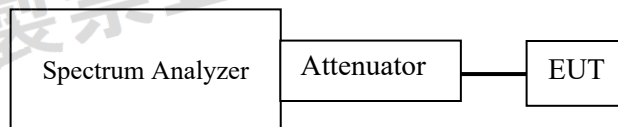
Frequency Hopping Dwell Time

Applicable Standard

According to Radio Law Radio Equipment Regulations Article 49-20, frequency dwell time is 0.4 seconds or below.

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous (burst) transmission mode”. If impossible, it shall be “continuous frequency-hopping mode”.

Spectrum Analyzer Conditions

- Step 1:
 - Center Frequency: 2441.0 MHz
 - Span: ZERO SPAN
 - RBW: 1MHz, VBW: 1MHz
 - Log scale: 10dB/Div, Data points: 601points (400 points or more)
 - Reference level: Enough level for maximum dynamic range
 - Detection: Positive Peak,
 - Sweep mode: Continuous
 - Duty cycle= Ton/(Ton+Toff)
- Step 2:
 - Center Frequency: 2441.0 MHz
 - RBW: 1MHz, VBW: 1MHz
 - Span: ZERO SPAN
 - Reference level: Enough level for maximum dynamic range
 - Detection: Positive Peak,
 - Sweep mode: Continuous
 - Sweep time: $0.4 \times \text{SBW}[\text{second}]$

Dwell time = Time per one hopping (On time) * hopping numbers

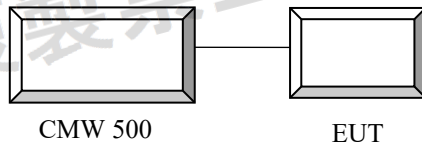
Interference Prevention Function

Requirement

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

Test Procedure

Measurement System Diagram



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

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

In the case of receiving the identification codes:

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

TEST DATA AND RESULTS

Frequency Error

Test Information:

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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Test Condition: NV

Mode	Channel	F _c (MHz)	F _L (MHz)	F _H (MHz)	F ₀ (MHz)	Result (ppm)	Limit (ppm)	Verdict
GFSK	Low	2402	2401.69469	2402.26727	2401.98098	-7.92	± 50	Pass
	Middle	2441	2440.72673	2441.24925	2440.98799	-4.92		Pass
	High	2480	2479.72673	2480.24925	2479.98799	-4.84		Pass
π/4- DQPSK	Low	2402	2401.49850	2402.52152	2402.01001	4.17		Pass
	Middle	2441	2440.49850	2441.52152	2441.01001	4.10		Pass
	High	2480	2479.49850	2480.52152	2480.01001	4.04		Pass
8DPSK	Low	2402	2401.48649	2402.51351	2402.00000	0.00		Pass
	Middle	2441	2440.48849	2441.51151	2441.00000	0.00		Pass
	High	2480	2479.48849	2480.50951	2479.99900	-0.40		Pass

Note:

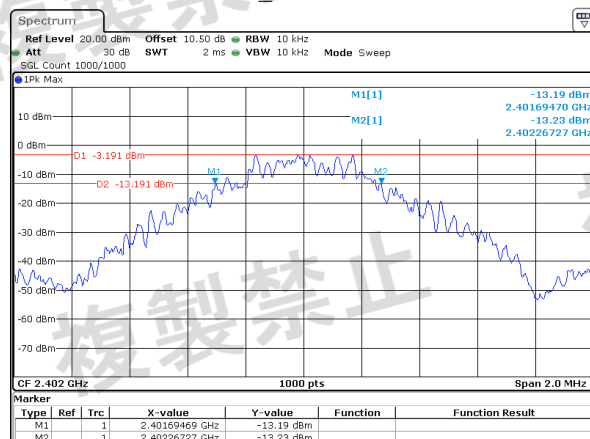
Result = $(F_0 - F_c)/F_c \times 10^6$, where $F_0 = (F_L + F_H)/2$

F_L is the lower edge of the 10dBc center frequency

F_H is the upper edge of the 10dBc center frequency.

Test Condition: NV

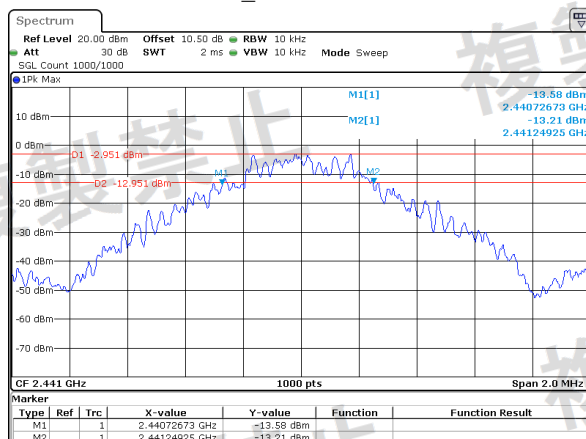
GFSK_Low Channel



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7.JUN.2025 15:38:12

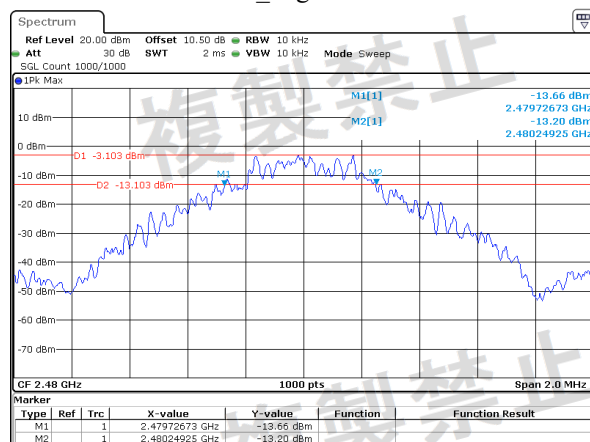
GFSK_Middle Channel



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

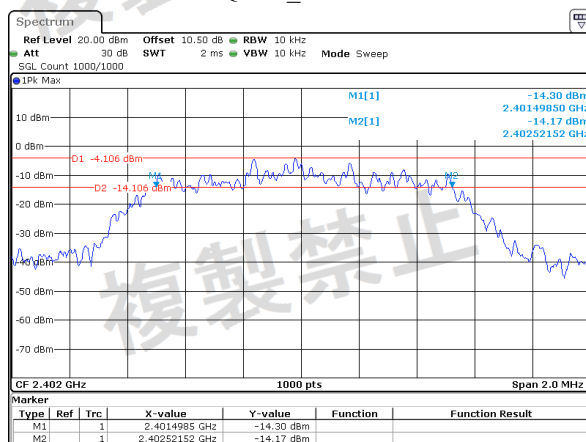
Date: 7.JUN.2025 15:39:10

GFSK_High Channel



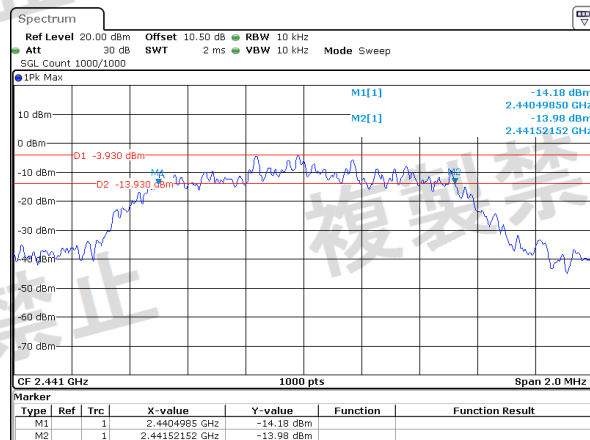
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Date: 7.JUN.2025 15:40:06

 $\pi/4$ -DQPSK_Low Channel

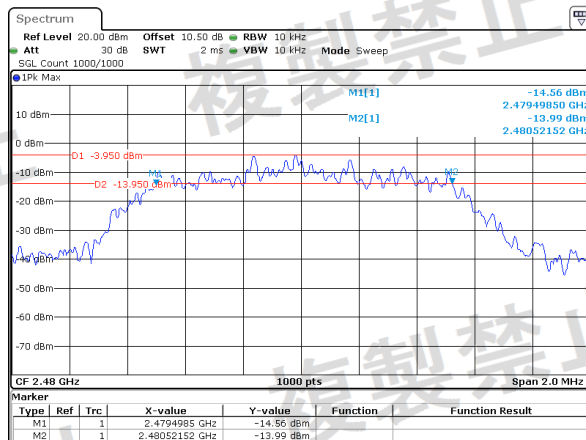
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7.JUN.2025 15:41:13

 $\pi/4$ -DQPSK_Middle Channel

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

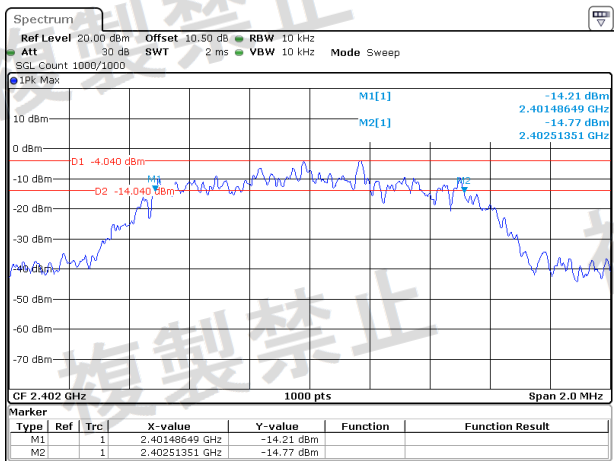
Date: 7.JUN.2025 15:42:07

 $\pi/4$ -DQPSK_High Channel

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

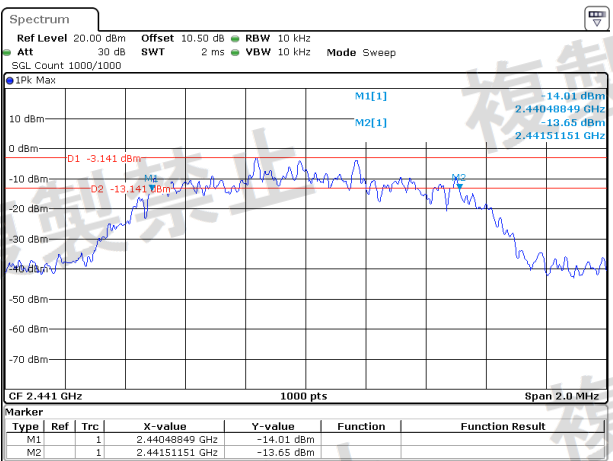
Date: 7.JUN.2025 15:43:04

8DPSK_Low Channel



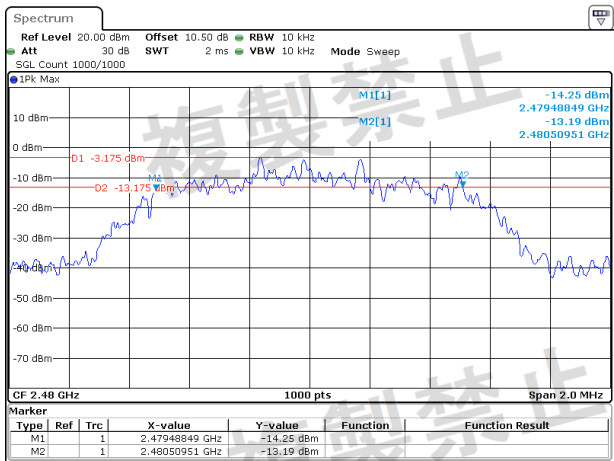
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:44:13

8DPSK_Middle Channel



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:45:32

8DPSK_High Channel



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:46:29

Occupied Bandwidth and Spreading Bandwidth**Test Information:**

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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Test Condition: NV

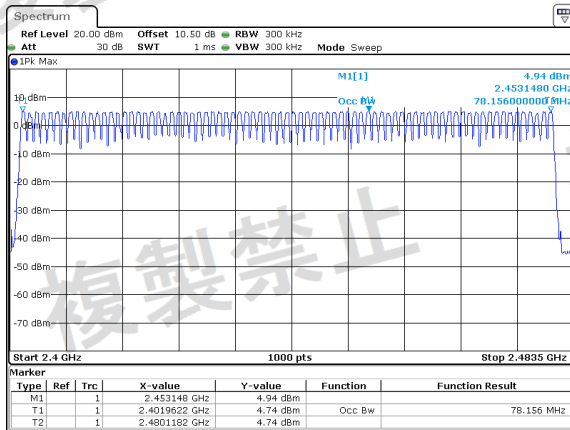
Mode	Packet Type	Occupied bandwidth (MHz)		Spreading bandwidth (MHz)		Spreading factor		Result
		Measured	Limit	Measured	Limit	Measured	Limit	
GFSK	DH1	78.156	≤ 83.5	71.393	≥ 0.5	71.393	> 5	Pass
	DH3	77.989	≤ 83.5	70.975	≥ 0.5	70.975	> 5	Pass
	DH5	78.323	≤ 83.5	71.059	≥ 0.5	71.059	> 5	Pass
$\pi/4$ -DQPSK	2DH1	78.323	≤ 83.5	71.142	≥ 0.5	71.142	> 5	Pass
	2DH3	78.323	≤ 83.5	71.309	≥ 0.5	71.309	> 5	Pass
	2DH5	78.323	≤ 83.5	71.226	≥ 0.5	71.226	> 5	Pass
8DPSK	3DH1	78.407	≤ 83.5	71.226	≥ 0.5	71.226	> 5	Pass
	3DH3	78.323	≤ 83.5	71.309	≥ 0.5	71.309	> 5	Pass
	3DH5	78.407	≤ 83.5	71.309	≥ 0.5	71.309	> 5	Pass

Note: Spread Factor = Spread Bandwidth/modulation rate. The modulation rate: MR=1.

Test Condition: NV

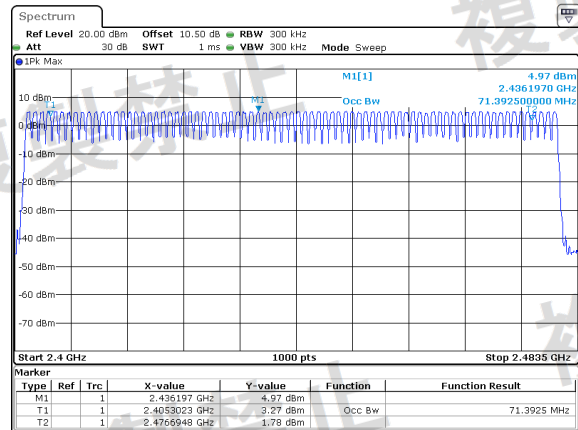
GFSK_Hopping_DH1

Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7 JUN.2025 14:24:06

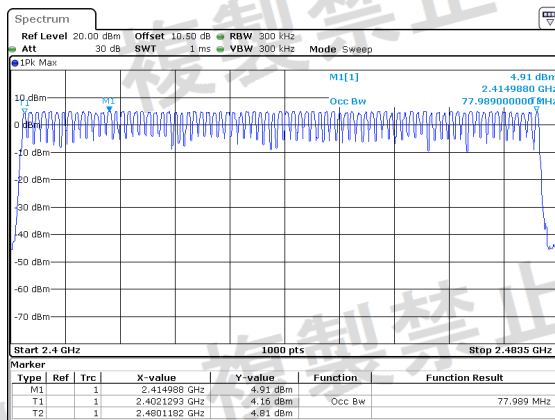
Spreading Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7 JUN.2025 14:25:12

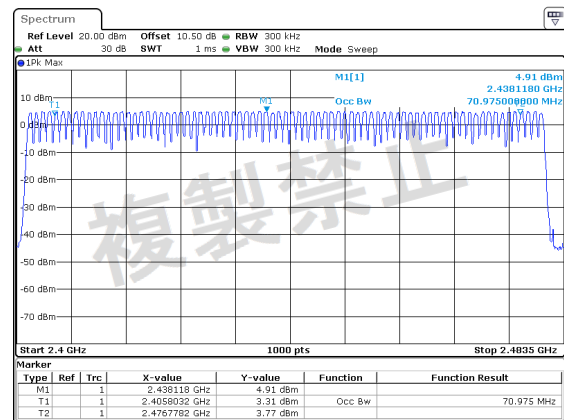
GFSK_Hopping_DH3

Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7 JUN.2025 14:26:38

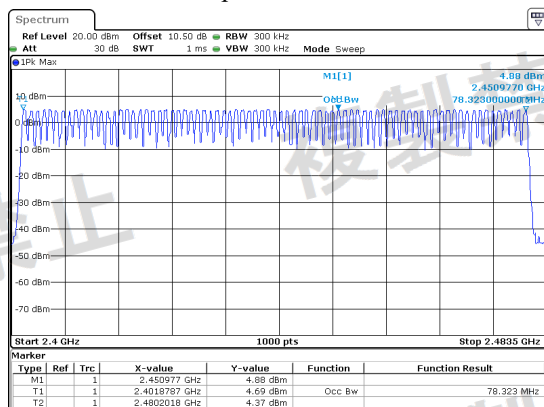
Spreading Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7 JUN.2025 14:27:51

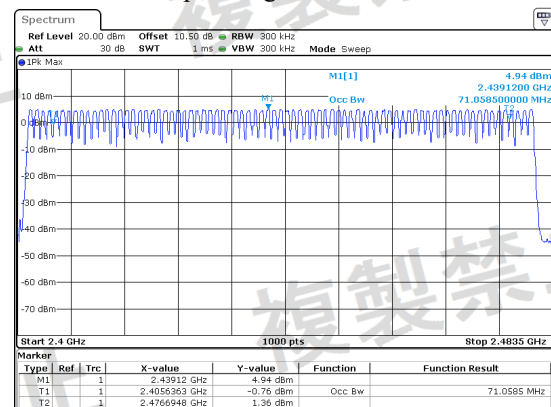
GFSK_Hopping_DH5

Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7 JUN.2025 14:29:02

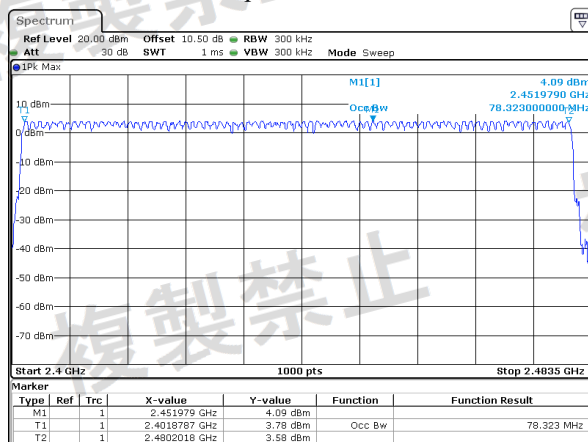
Spreading Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7 JUN.2025 14:30:30

$\pi/4$ -DQPSK_Hopping_2DH1

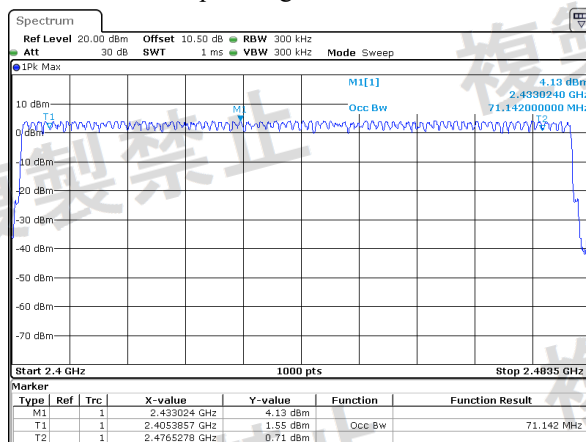
Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7 JUN.2025 14:31:44

Spreading Bandwidth

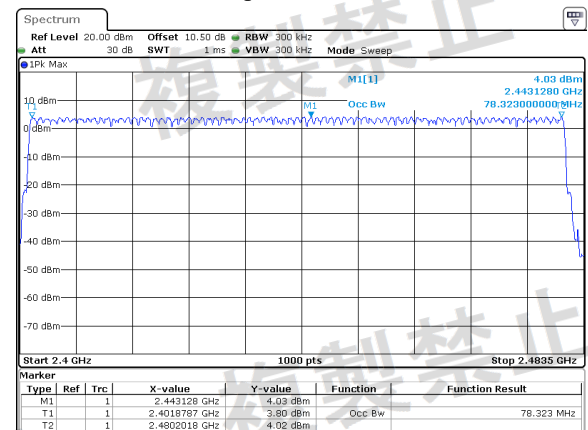


ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7 JUN.2025 14:32:28

 $\pi/4$ -DQPSK_Hopping_2DH3

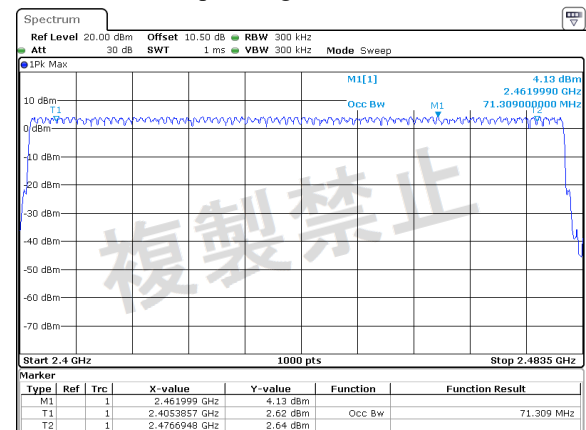
Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7 JUN.2025 14:34:09

Spreading Bandwidth

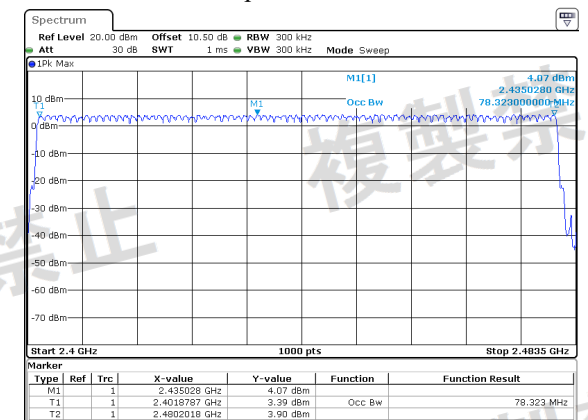


ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7 JUN.2025 14:34:59

 $\pi/4$ -DQPSK_Hopping_2DH5

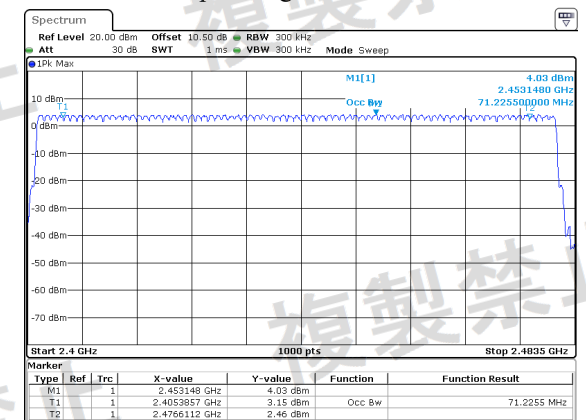
Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7 JUN.2025 14:37:14

Spreading Bandwidth

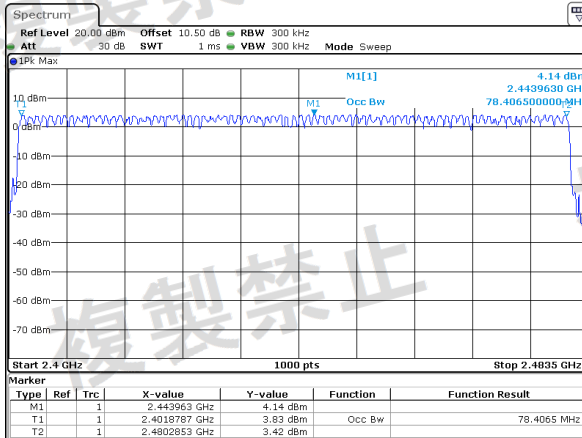


ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7 JUN.2025 14:38:36

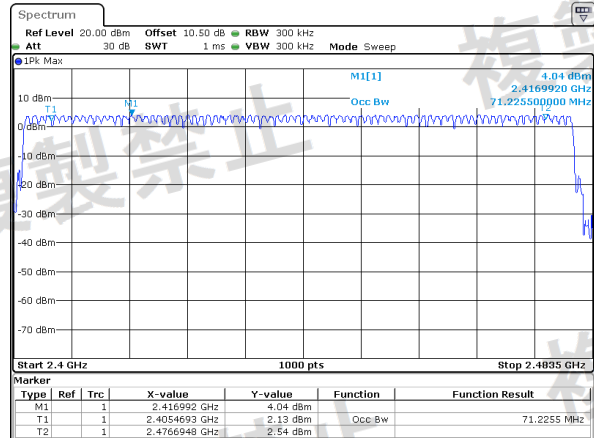
8DPSK_Hopping_3DH1

Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:42:24

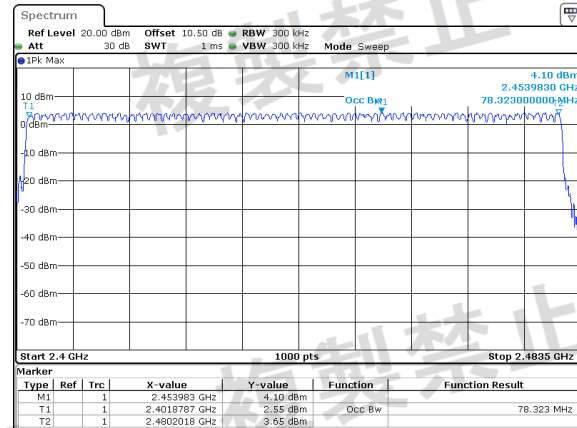
Spreading Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:43:26

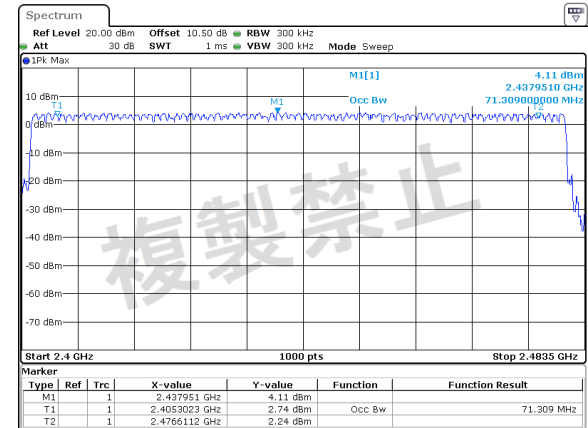
8DPSK_Hopping_3DH3

Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:44:26

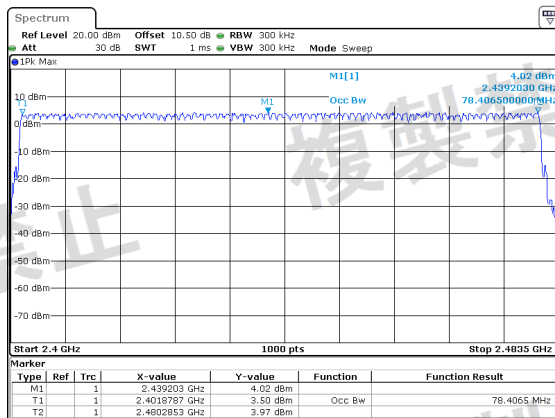
Spreading Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:45:09

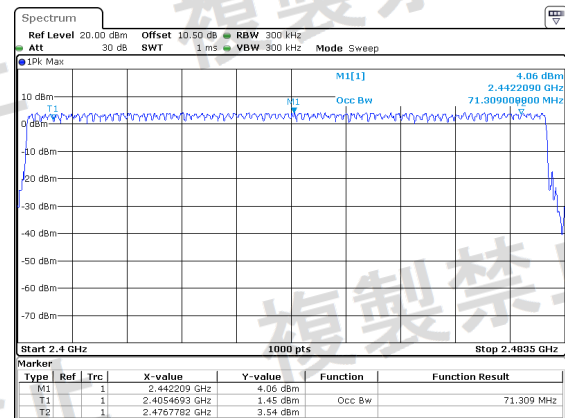
8DPSK_Hopping_3DH5

Occupied Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:45:58

Spreading Bandwidth



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:46:29

Transmitter Spurious Emission and Unwanted Emission Intensity**Test Information:**

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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Test Condition: NV, GFSK

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	953.68	-47.16	0.019	0.25	Pass
	Band II (1MHz)	1000	2387	1777.76	-38.40	0.145	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9903	-26.46	2.259	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.9863	-38.44	0.143	25	Pass
	Band V (1MHz)	2496.5	12500	11947.3	-32.03	0.627	2.50	Pass
Middle	Band I (100kHz)	30	1000	219.88	-47.32	0.019	0.25	Pass
	Band II (1MHz)	1000	2387	1731.99	-38.99	0.126	2.50	Pass
	Band III (1MHz)	2387	2400	2390.9748	-38.43	0.144	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.4533	-38.55	0.140	25	Pass
	Band V (1MHz)	2496.5	12500	6675.5	-33.46	0.451	2.50	Pass
High	Band I (100kHz)	30	1000	700.51	-47.28	0.019	0.25	Pass
	Band II (1MHz)	1000	2387	1799.95	-38.88	0.129	2.50	Pass
	Band III (1MHz)	2387	2400	2392.6128	-38.95	0.127	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.8803	-38.11	0.155	25	Pass
	Band V (1MHz)	2496.5	12500	11417.1	-33.28	0.470	2.50	Pass

Test Condition: NV, $\pi/4$ -DQPSK

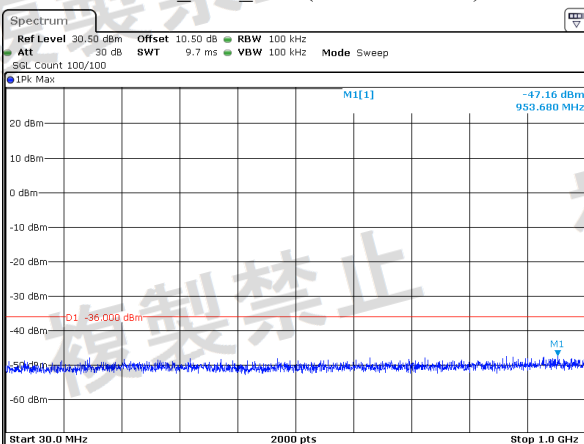
Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μ W/RBW)	Limit (μ W/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
Low	Band I (100kHz)	30	1000	571.02	-47.40	0.018	0.25	Pass
	Band II (1MHz)	1000	2387	1675.82	-38.72	0.134	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9903	-20.86	8.204	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2490.3803	-38.62	0.137	25	Pass
	Band V (1MHz)	2496.5	12500	10716.9	-33.40	0.457	2.50	Pass
Middle	Band I (100kHz)	30	1000	974.05	-47.59	0.017	0.25	Pass
	Band II (1MHz)	1000	2387	1717.43	-38.73	0.134	2.50	Pass
	Band III (1MHz)	2387	2400	2399.8928	-38.99	0.126	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5488	-38.80	0.132	25	Pass
	Band V (1MHz)	2496.5	12500	6600.4	-33.13	0.486	2.50	Pass
High	Band I (100kHz)	30	1000	965.81	-47.36	0.018	0.25	Pass
	Band II (1MHz)	1000	2387	1779.84	-38.08	0.156	2.50	Pass
	Band III (1MHz)	2387	2400	2391.5338	-38.99	0.126	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5423	-28.92	1.282	25	Pass
	Band V (1MHz)	2496.5	12500	6340.3	-33.36	0.461	2.50	Pass

Test Condition: NV, 8DPSK

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	889.18	-46.84	0.021	0.25	Pass
	Band II (1MHz)	1000	2387	1539.89	-38.49	0.142	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9838	-34.25	0.376	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2486.0838	-38.41	0.144	25	Pass
	Band V (1MHz)	2496.5	12500	6940.6	-33.70	0.427	2.50	Pass
Middle	Band I (100kHz)	30	1000	640.37	-46.80	0.021	0.25	Pass
	Band II (1MHz)	1000	2387	1765.28	-38.14	0.153	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9513	-39.03	0.125	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.6938	-38.90	0.129	25	Pass
	Band V (1MHz)	2496.5	12500	6350.3	-33.20	0.479	2.50	Pass
High	Band I (100kHz)	30	1000	982.78	-47.24	0.019	0.25	Pass
	Band II (1MHz)	1000	2387	1758.34	-38.70	0.135	2.50	Pass
	Band III (1MHz)	2387	2400	2393.4838	-39.01	0.126	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.6008	-23.14	4.853	25	Pass
	Band V (1MHz)	2496.5	12500	6660.5	-33.03	0.498	2.50	Pass

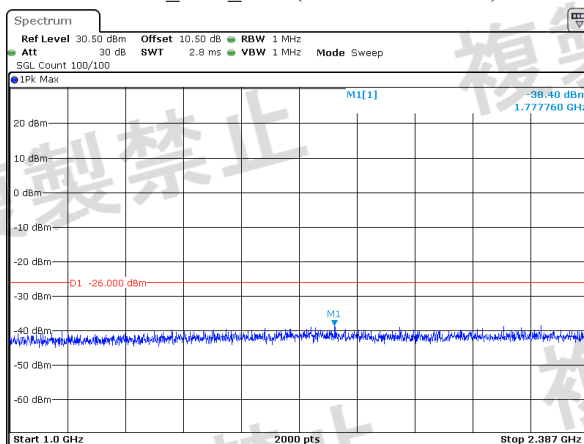
Test Condition: NV

GFSK_Low_DH1(30MHz~1GHz)



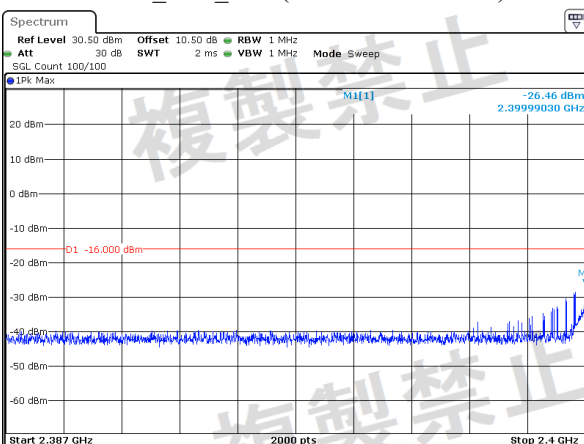
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:47:25

GFSK_Low_DH1(1GHz~2.387GHz)



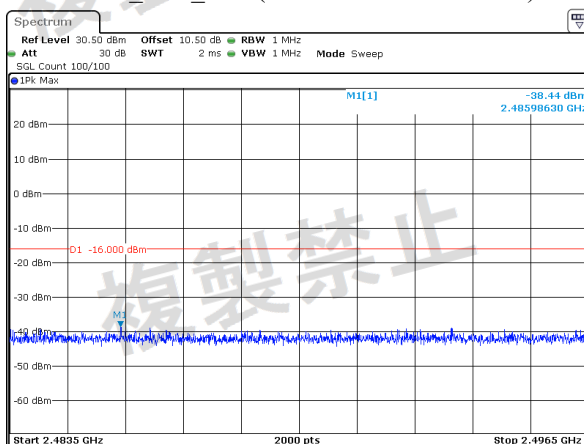
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:47:34

GFSK_Low_DH1(2.387GHz~2.4GHz)



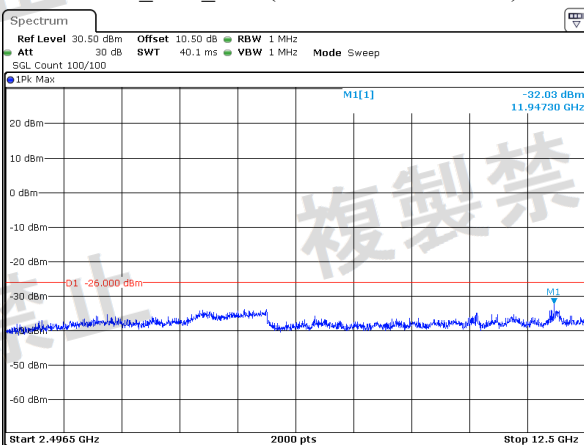
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:47:42

GFSK_Low_DH1(2.4835GHz~2.4965GHz)



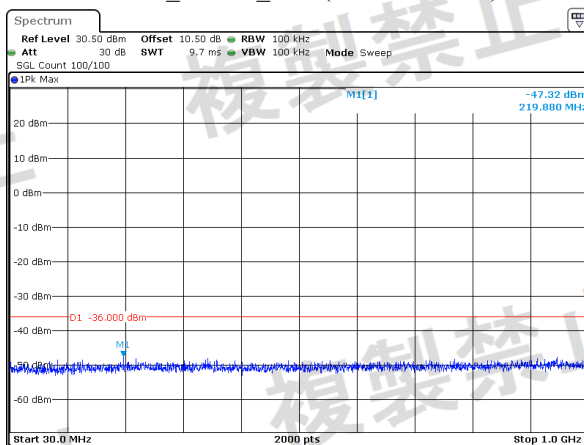
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:47:50

GFSK_Low_DH1(2.4965GHz~12.5GHz)



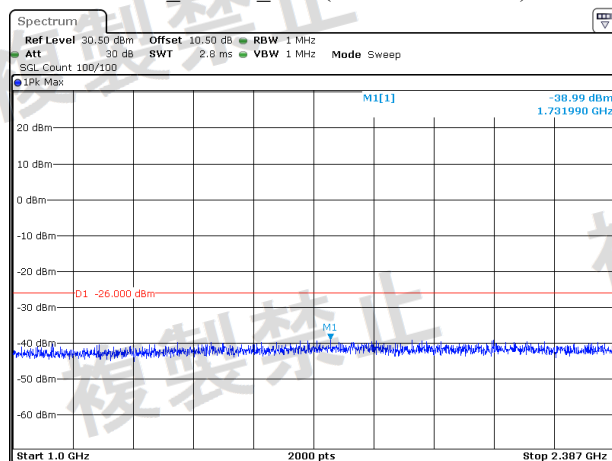
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:48:14

GFSK_Middle_DH1(30MHz~1GHz)



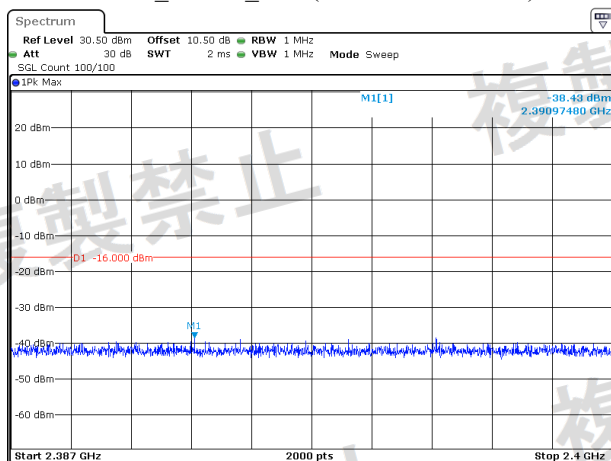
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:48:44

GFSK_Middle_DH1(1GHz~2.387GHz)



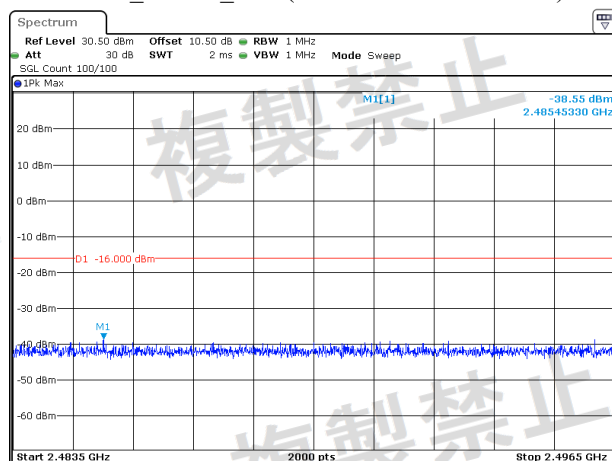
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:48:54

GFSK_Middle_DH1(2.387GHz~2.4GHz)



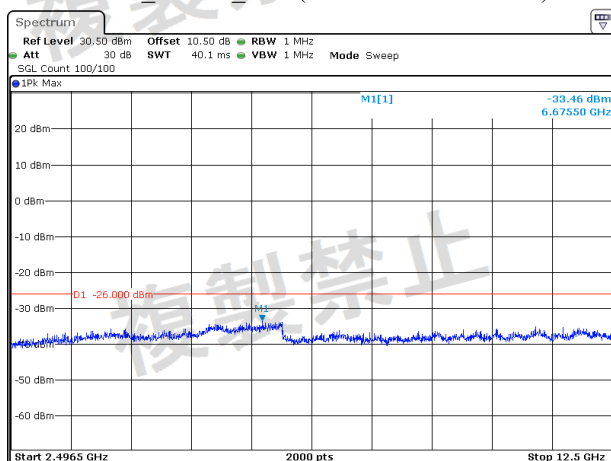
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:49:03

GFSK_Middle_DH1(2.4835GHz~2.4965GHz)



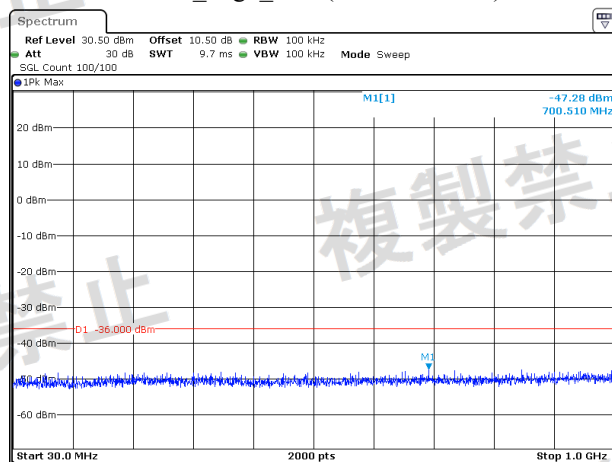
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:49:11

GFSK_Middle_DH1(2.4965GHz~12.5GHz)



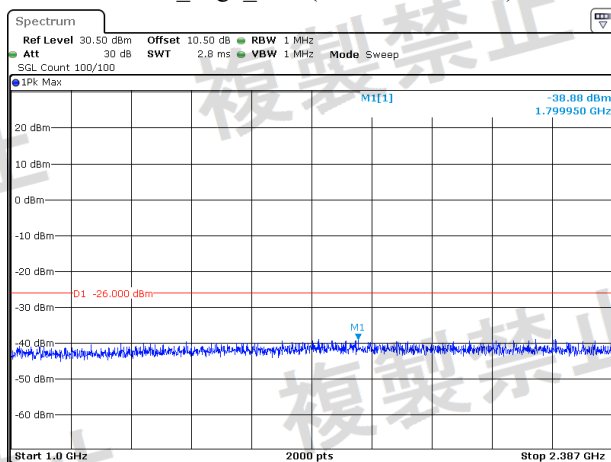
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:49:37

GFSK_High_DH1(30MHz~1GHz)



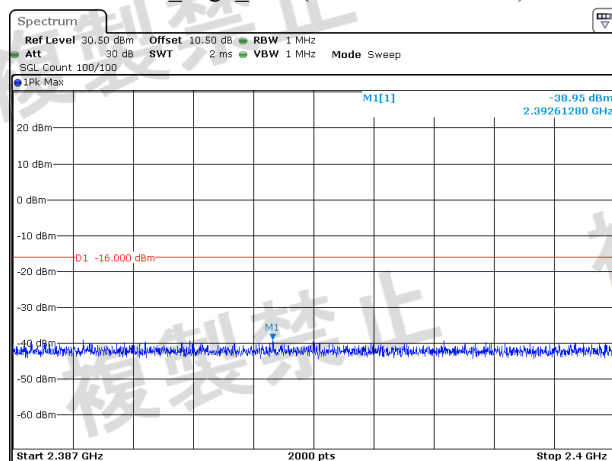
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:50:03

GFSK_High_DH1(1GHz~2.387GHz)



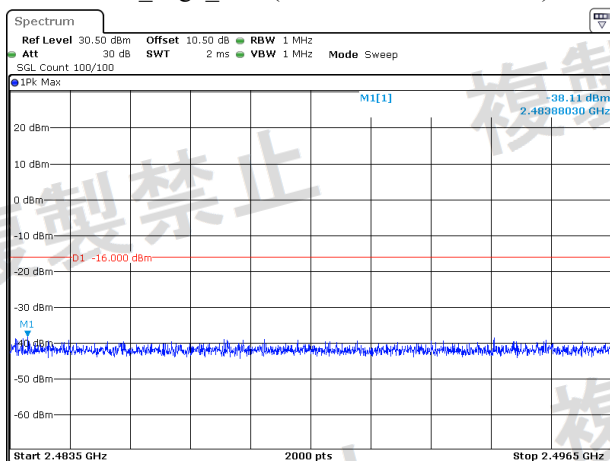
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:50:14

GFSK_High_DH1(2.387GHz~2.4GHz)



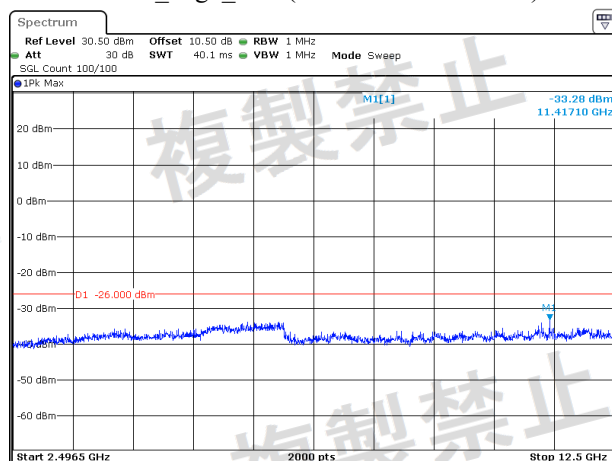
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:50:23

GFSK_High_DH1(2.4835GHz~2.4965GHz)

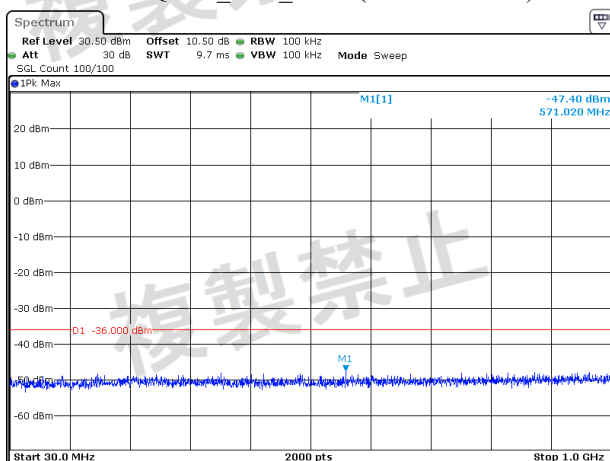


ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:50:31

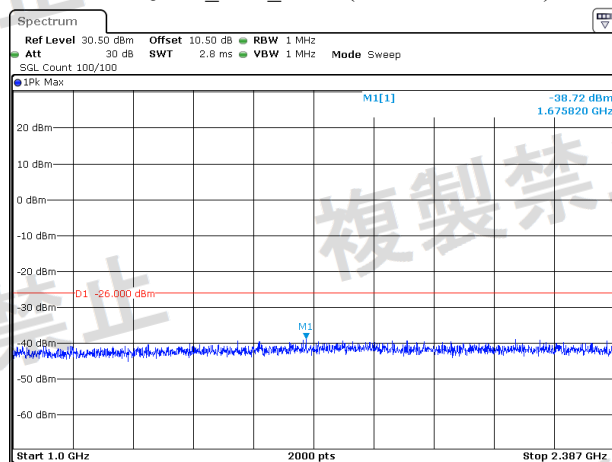
GFSK_High_DH1(2.4965GHz~12.5GHz)



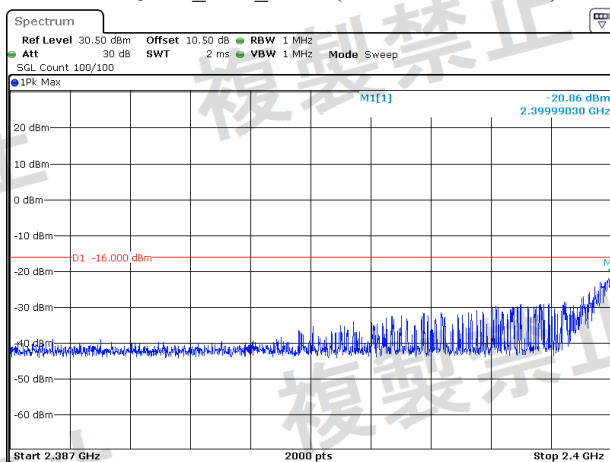
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:50:55

 $\pi/4$ -DQPSK_Low_2DH1(30MHz~1GHz)

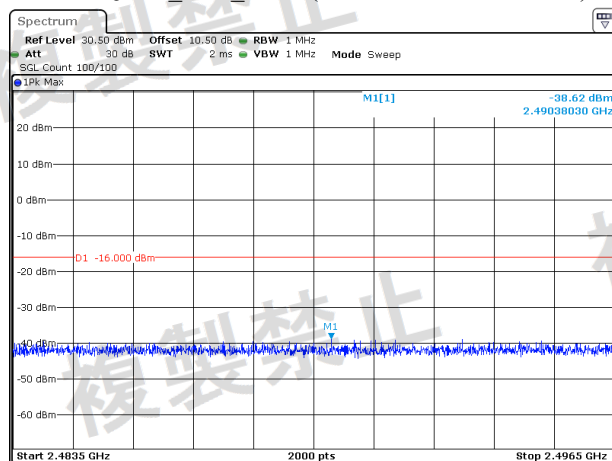
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:51:30

 $\pi/4$ -DQPSK_Low_2DH1(1GHz~2.387GHz)

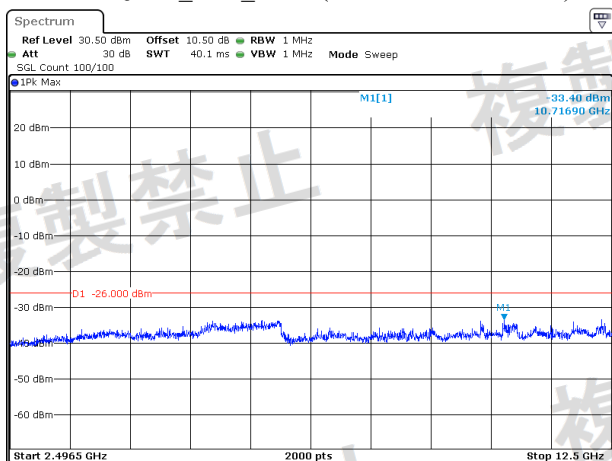
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:51:39

 $\pi/4$ -DQPSK_Low_2DH1(2.387GHz~2.4GHz)

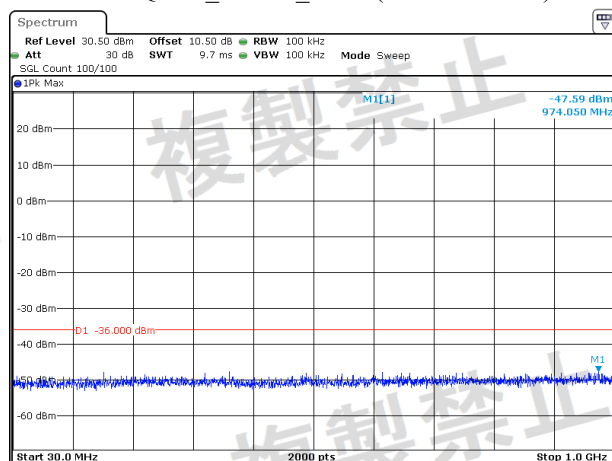
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:51:47

$\pi/4$ -DQPSK_Low_2DH1(2.4835GHz~2.4965GHz)

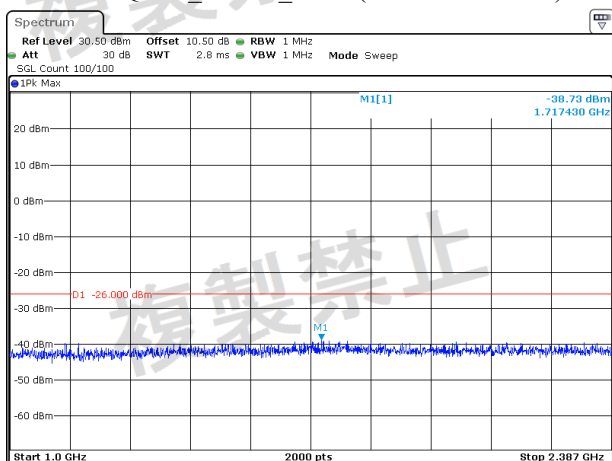
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:51:56

 $\pi/4$ -DQPSK_Low_2DH1(2.4965GHz~12.5GHz)

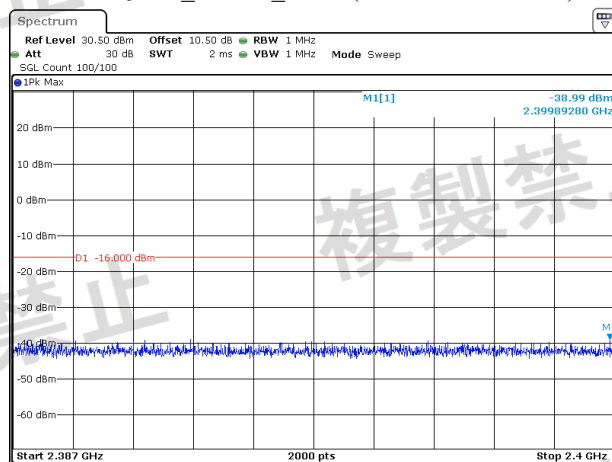
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:52:22

 $\pi/4$ -DQPSK_Middle_2DH1(30MHz~1GHz)

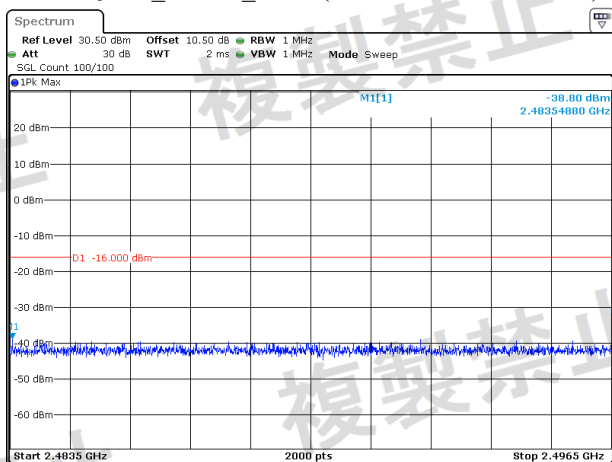
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:52:52

 $\pi/4$ -DQPSK_Middle_2DH1(1GHz~2.387GHz)

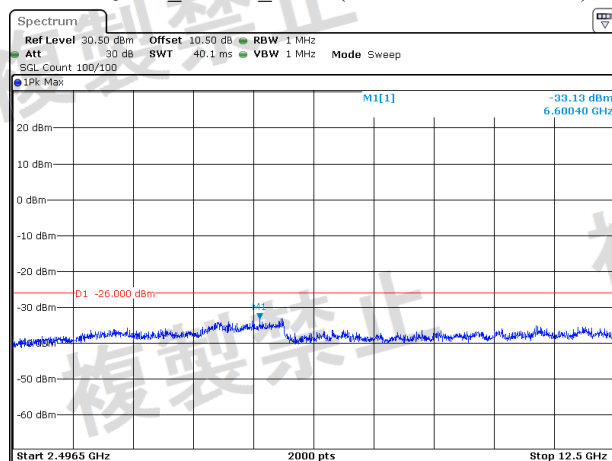
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:53:04

 $\pi/4$ -DQPSK_Middle_2DH1(2.387GHz~2.4GHz)

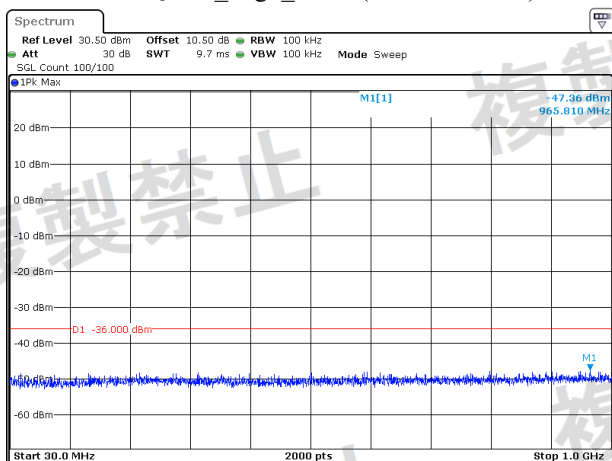
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:53:13

 $\pi/4$ -DQPSK_Middle_2DH1(2.4835GHz~2.4965GHz)

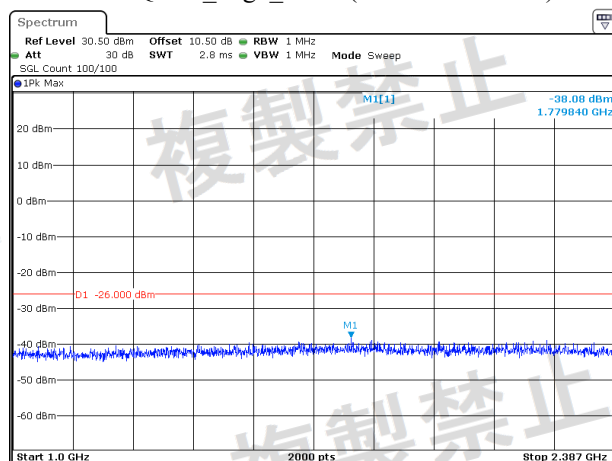
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:53:22

$\pi/4$ -DQPSK_Middle_2DH1(2.4965GHz~12.5GHz)

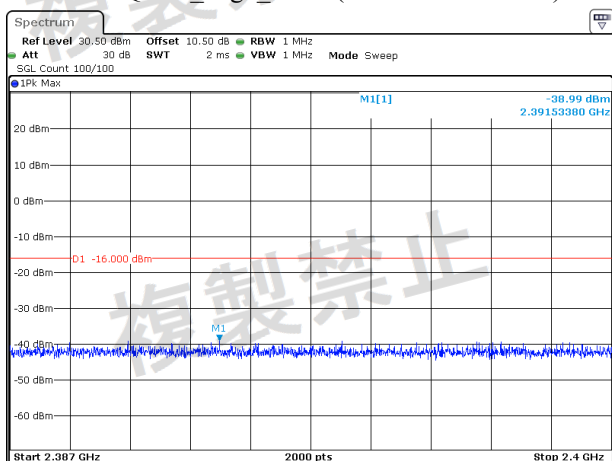
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:53:49

 $\pi/4$ -DQPSK_High_2DH1(30MHz~1GHz)

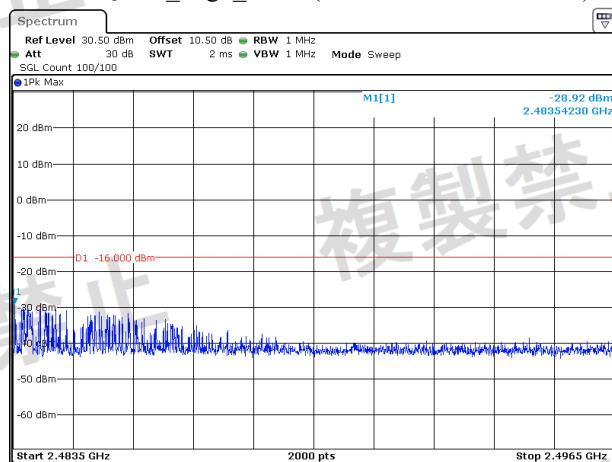
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:54:15

 $\pi/4$ -DQPSK_High_2DH1(1GHz~2.387GHz)

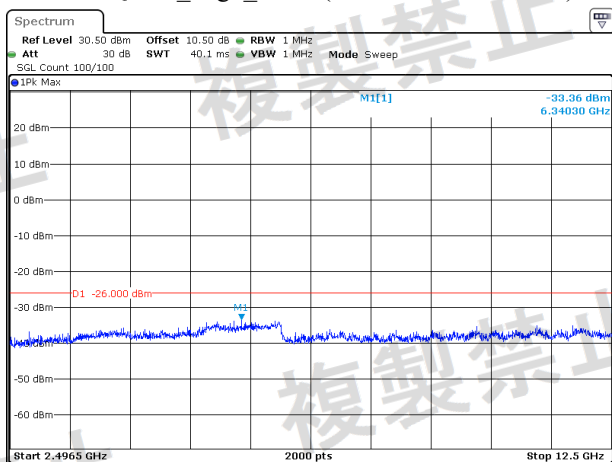
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:54:27

 $\pi/4$ -DQPSK_High_2DH1(2.387GHz~2.4GHz)

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:54:36

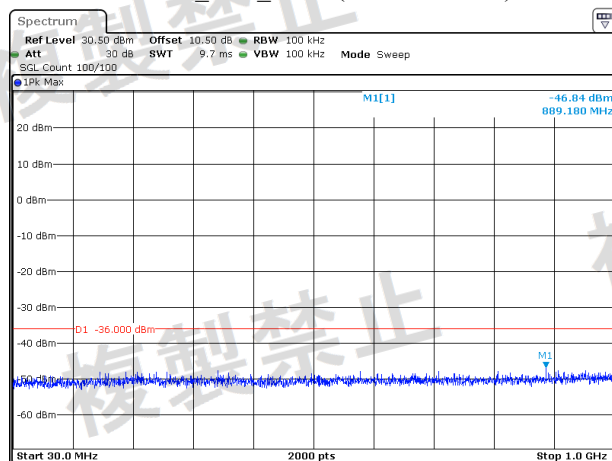
 $\pi/4$ -DQPSK_High_2DH1(2.4835GHz~2.4965GHz)

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:54:44

 $\pi/4$ -DQPSK_High_2DH1(2.4965GHz~12.5GHz)

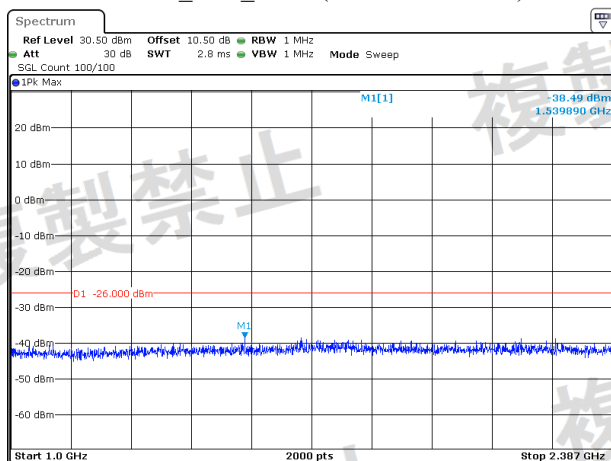
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:55:09

8DPSK_Low_3DH1(30MHz~1GHz)



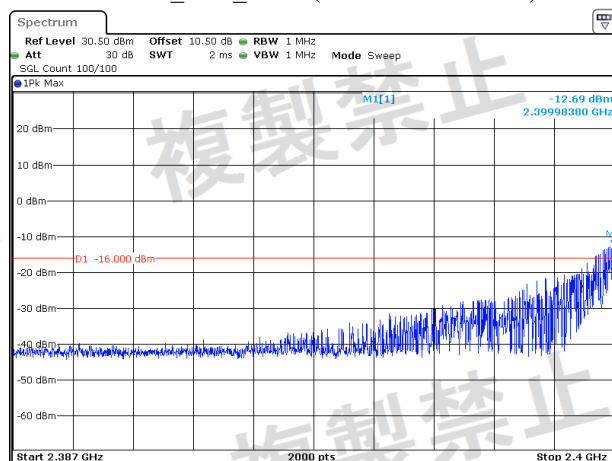
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:55:40

8DPSK_Low_3DH1(1GHz~2.387GHz)



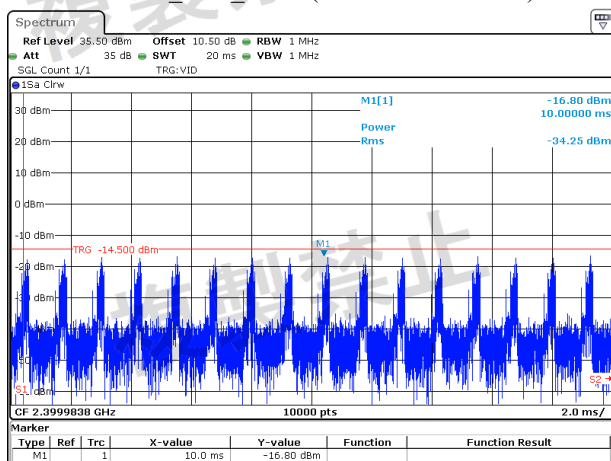
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:58:49

8DPSK_Low_3DH1(2.387GHz~2.4GHz)



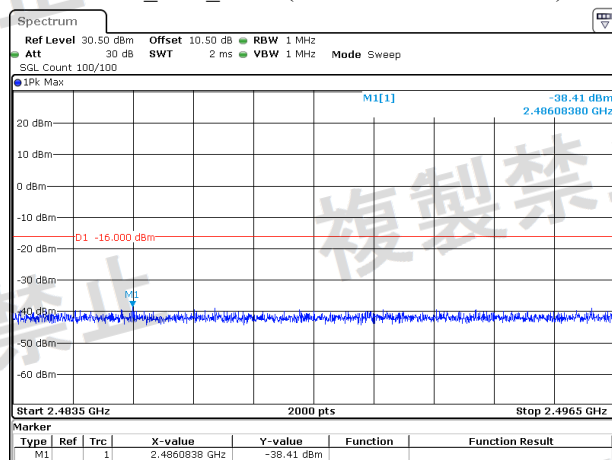
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:55:58

8DPSK_Low_3DH1(2.387GHz~2.4GHz)



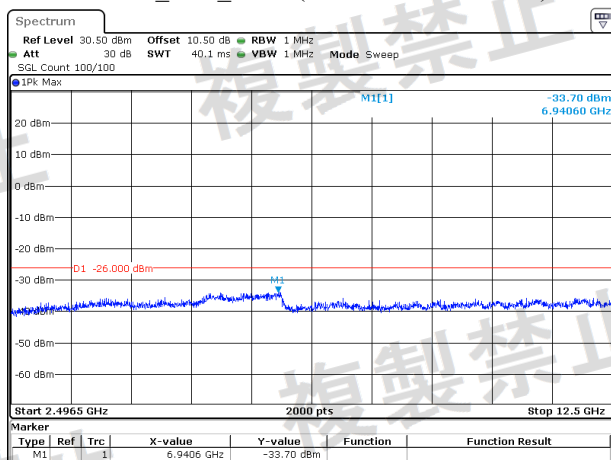
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:56:40

8DPSK_Low_3DH1(2.4835GHz~2.4965GHz)



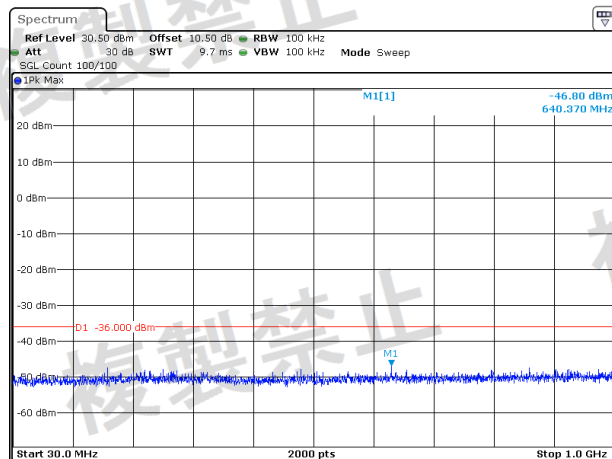
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:56:49

8DPSK_Low_3DH1(2.4965GHz~12.5GHz)



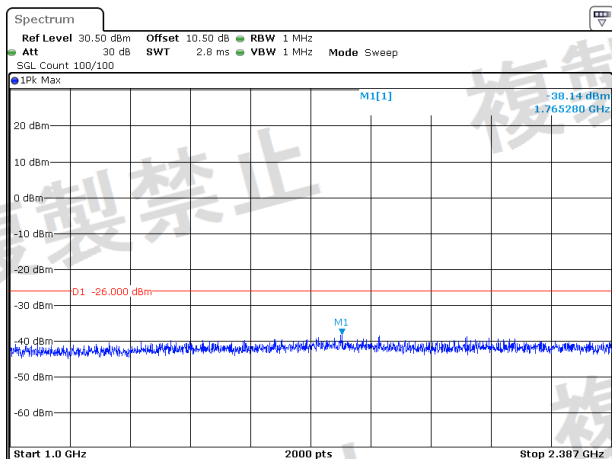
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:57:15

8DPSK_Middle_3DH1(30MHz~1GHz)



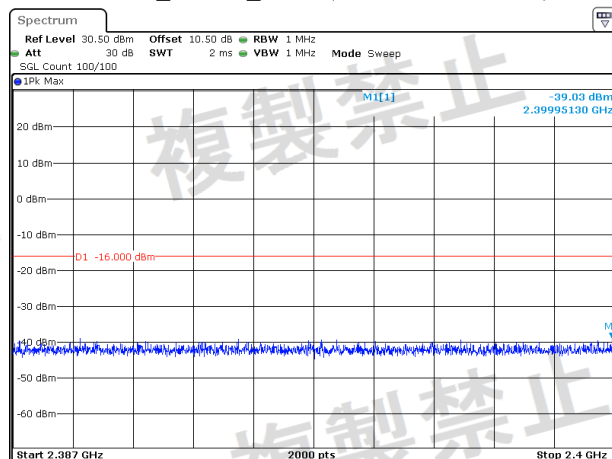
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:57:41

8DPSK_Middle_3DH1(1GHz~2.387GHz)



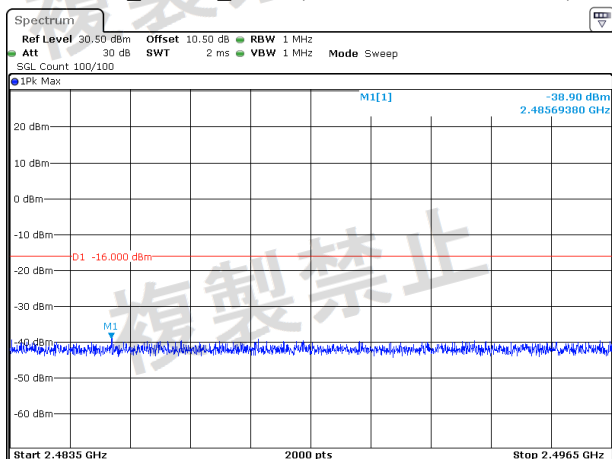
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:57:54

8DPSK_Middle_3DH1(2.387GHz~2.4GHz)



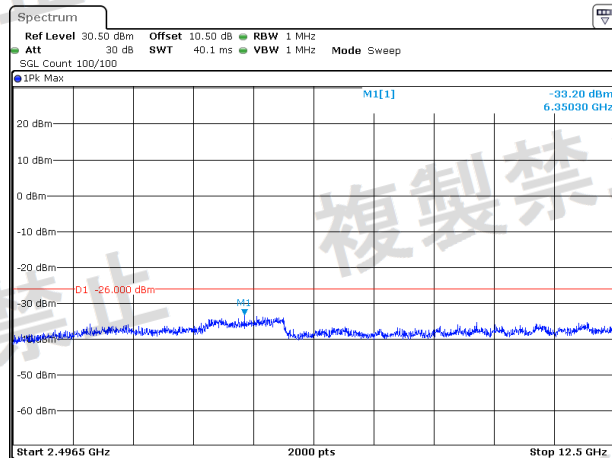
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:58:04

8DPSK_Middle_3DH1(2.4835GHz~2.4965GHz)



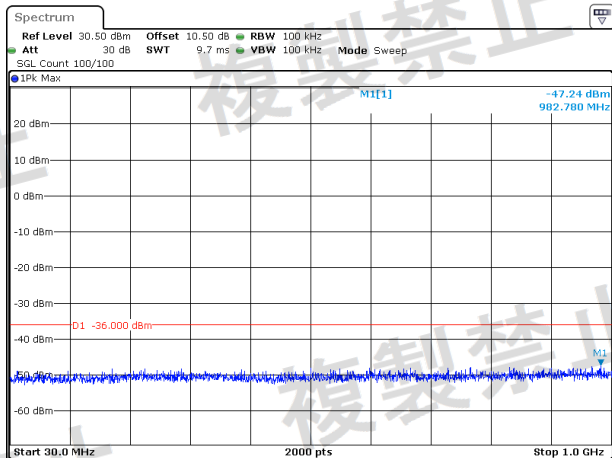
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:58:13

8DPSK_Middle_3DH1(2.4965GHz~12.5GHz)



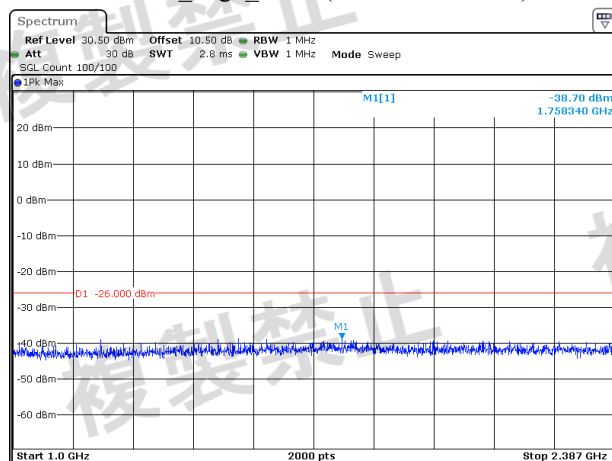
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:58:38

8DPSK_High_3DH1(30MHz~1GHz)



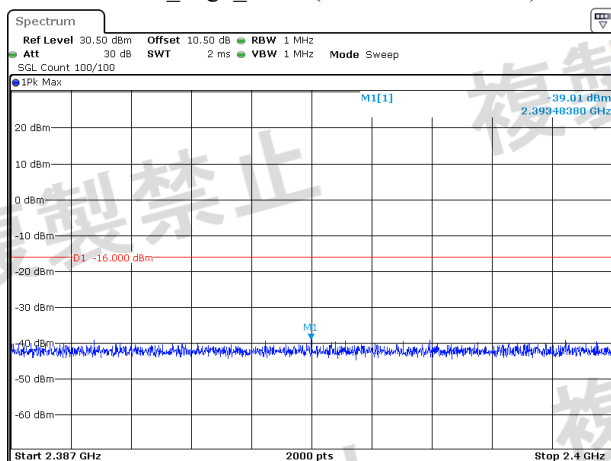
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:59:13

8DPSK_High_3DH1(1GHz~2.387GHz)



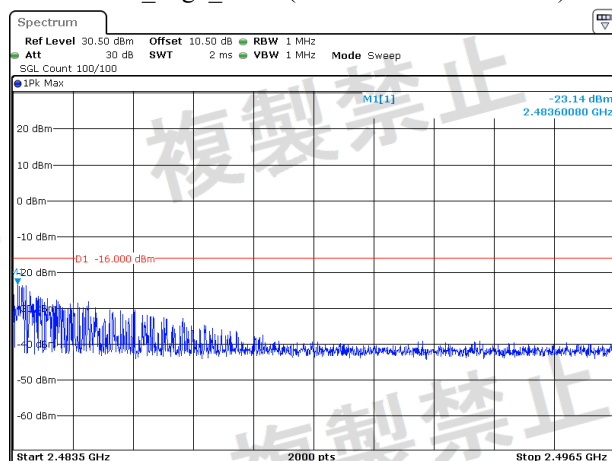
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:59:23

8DPSK_High_3DH1(2.387GHz~2.4GHz)



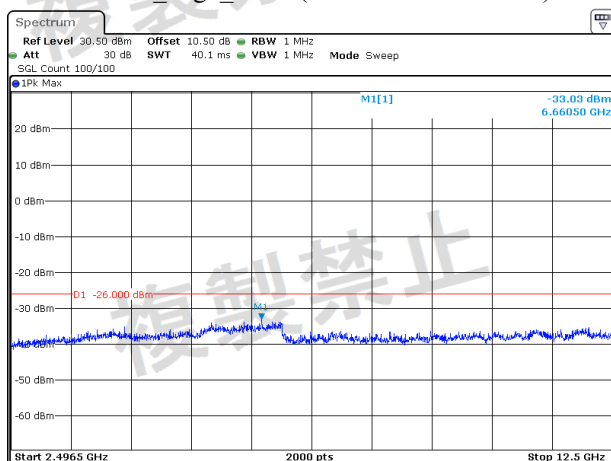
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:59:31

8DPSK_High_3DH1(2.4835GHz~2.4965GHz)



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:59:39

8DPSK_High_3DH1(2.4965GHz~12.5GHz)



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:00:04

Antenna Output Power and Output Power Tolerance**Test Information:**

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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Test Condition: NV

Mode	Antenna gain (dBi)	Declared power (mW/MHz)
GFSK	1.74	0.050
$\pi/4$ DQPSK	1.74	0.050
8DPSK	1.74	0.050

Mode	Antenna output power (dBm)	Spread bandwidth (MHz)	Antenna output power (mW/MHz)		Antenna output power tolerance(%)		EIRP (dBm/MHz)		Verdict
			Result	Limit	Result	Limit	Result	Limit	
GFSK	4.29	71.393	0.038	≤ 3	-24.00	-80~+20	-12.46	≤ 6.91	Pass
$\pi/4$ -DQPSK	4.00	71.142	0.035	≤ 3	-30.00	-80~+20	-12.82	≤ 6.91	Pass
8DPSK	3.83	71.142	0.034	≤ 3	-32.00	-80~+20	-12.95	≤ 6.91	Pass

Note:

 $\text{Antenna output power(mW)} = 10^{\{\text{Antenna output power(dBm)} / 10\}}$ $\text{Antenna output power(mW/MHz)} = \text{Antenna output power(mW)} / \text{Spread bandwidth(MHz)}$ $\text{Antenna output power Tolerance(\%)} = (\text{Antenna output power} - \text{Declared power}) / \text{Declared power} * 100\%$ $\text{Antenna output power(dBm/MHz)} = 10 * \log_{10}\{\text{Antenna output power(mW/MHz)}\}$ $\text{EIRP(dBm/MHz)} = \text{Antenna output power(dBm/MHz)} + \text{Antenna gain.}$

Receiver Spurious Emission and Unwanted Emission Intensity

Test Information:

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

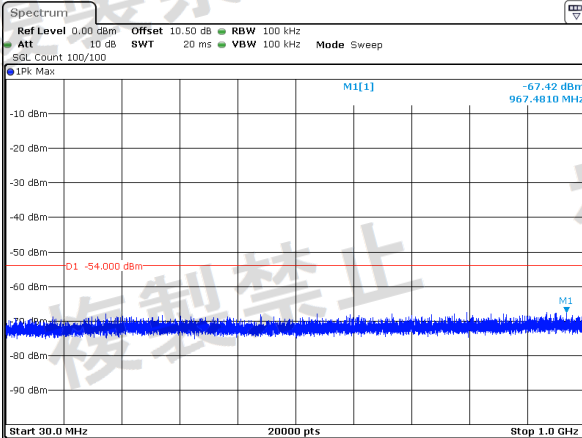
Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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Test Condition: NV

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start (MHz)	Stop (MHz)					
GFSK	Low	Band I (100kHz)	30	1000	967.481	-67.42	0.181	4	Pass
		Band II (1MHz)	1000	12500	6972.24	-53.40	4.571	20	Pass
	Middle	Band I (100kHz)	30	1000	934.258	-67.01	0.199	4	Pass
		Band II (1MHz)	1000	12500	1719.04	-53.07	4.932	20	Pass
	High	Band I (100kHz)	30	1000	903.849	-67.36	0.184	4	Pass
		Band II (1MHz)	1000	12500	6945.79	-53.67	4.295	20	Pass
$\pi/4$ - DQPSK	Low	Band I (100kHz)	30	1000	955.356	-66.47	0.225	4	Pass
		Band II (1MHz)	1000	12500	6676.69	-53.52	4.446	20	Pass
	Middle	Band I (100kHz)	30	1000	816.791	-66.86	0.206	4	Pass
		Band II (1MHz)	1000	12500	6885.41	-52.86	5.176	20	Pass
	High	Band I (100kHz)	30	1000	893.421	-67.50	0.178	4	Pass
		Band II (1MHz)	1000	12500	6987.19	-53.50	4.467	20	Pass
8DPSK	Low	Band I (100kHz)	30	1000	838.374	-66.61	0.218	4	Pass
		Band II (1MHz)	1000	12500	6892.89	-53.82	4.150	20	Pass
	Middle	Band I (100kHz)	30	1000	232.706	-66.89	0.205	4	Pass
		Band II (1MHz)	1000	12500	6915.89	-53.45	4.519	20	Pass
	High	Band I (100kHz)	30	1000	600.19	-67.23	0.189	4	Pass
		Band II (1MHz)	1000	12500	5913.09	-52.61	5.483	20	Pass

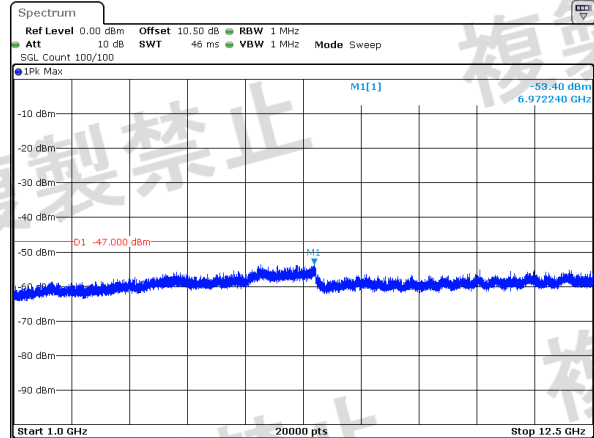
Test Condition: NV

GFSK_Low_DH1(30MHz~1GHz)



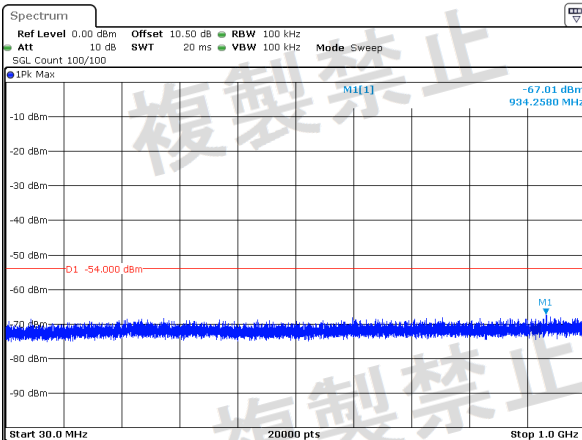
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:02:58

GFSK_Low_DH1(1GHz~12.5GHz)



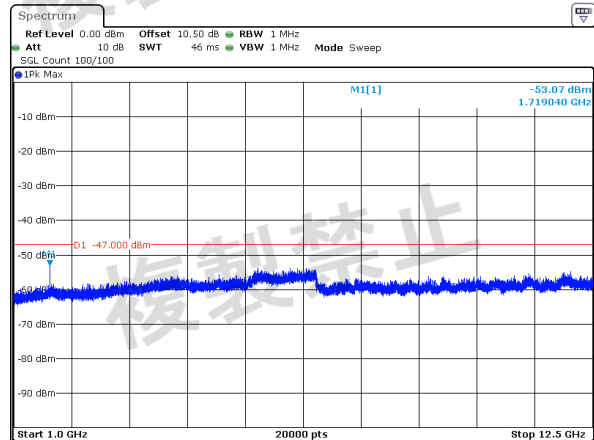
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:03:26

GFSK_Middle_DH1(30MHz~1GHz)



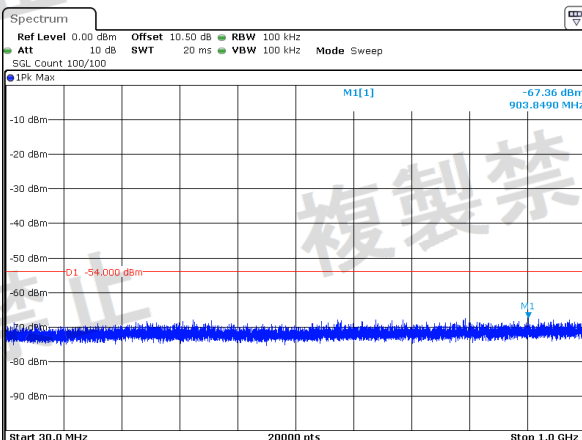
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:03:46

GFSK_Middle_DH1(1GHz~12.5GHz)



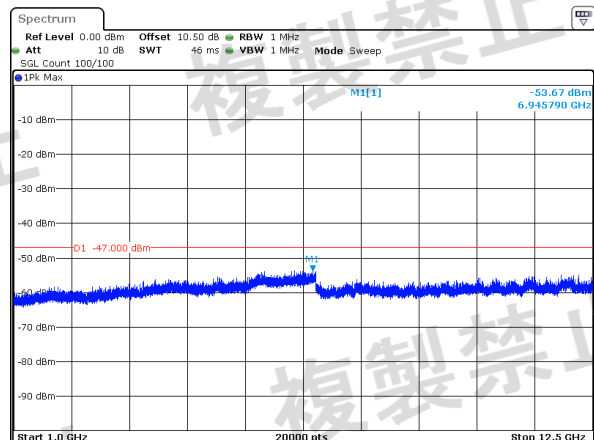
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:04:14

GFSK_High_DH1(30MHz~1GHz)

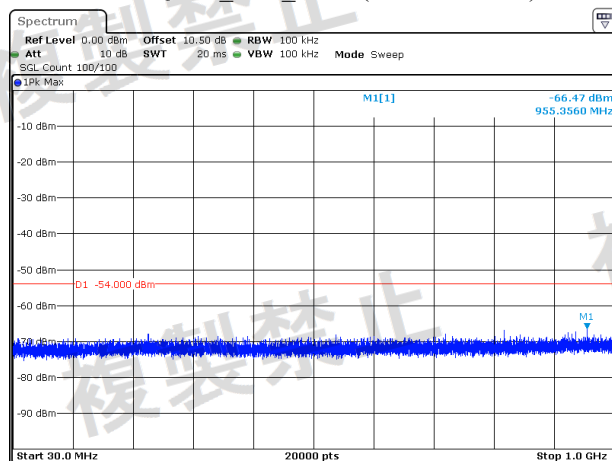


ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:04:48

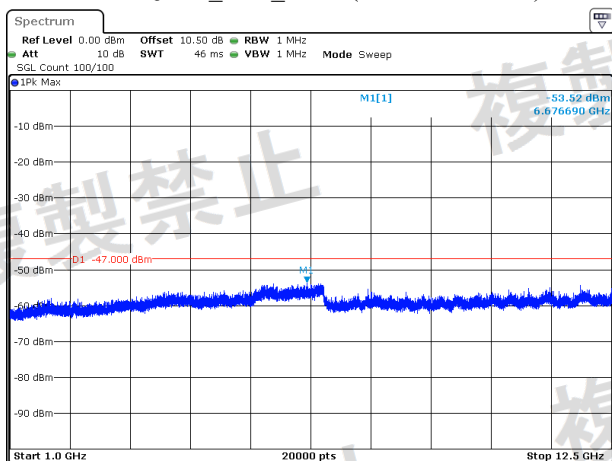
GFSK_High_DH1(1GHz~12.5GHz)



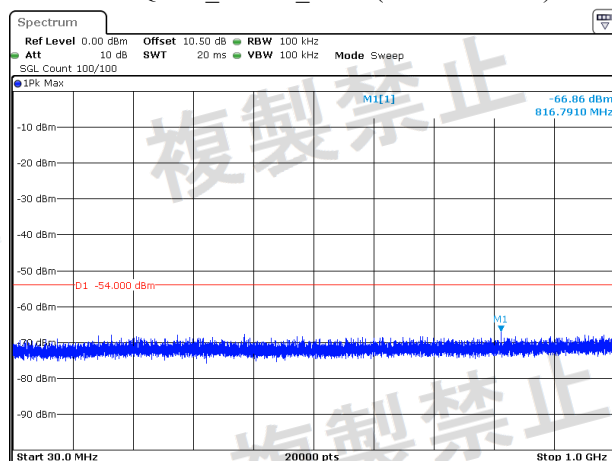
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:05:16

$\pi/4$ -DQPSK_Low_2DH1(30MHz~1GHz)

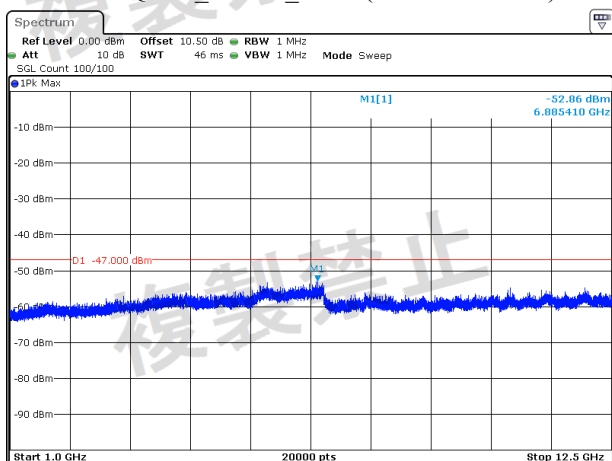
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:05:39

 $\pi/4$ -DQPSK_Low_2DH1(1GHz~12.5GHz)

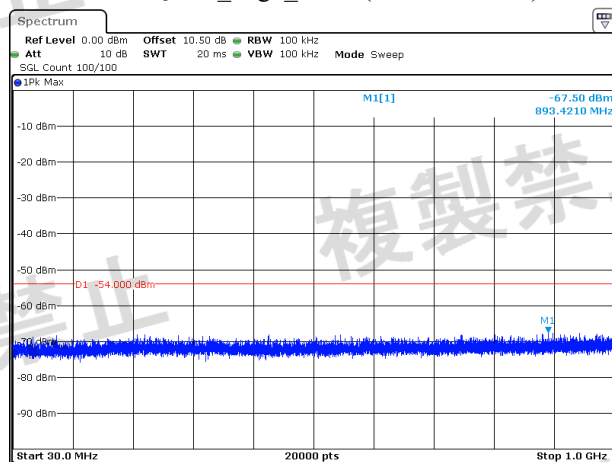
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:06:07

 $\pi/4$ -DQPSK_Middle_2DH1(30MHz~1GHz)

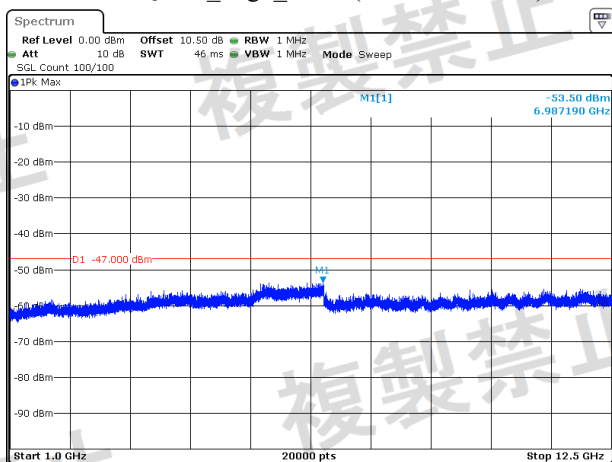
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:06:29

 $\pi/4$ -DQPSK_Middle_2DH1(1GHz~12.5GHz)

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:06:58

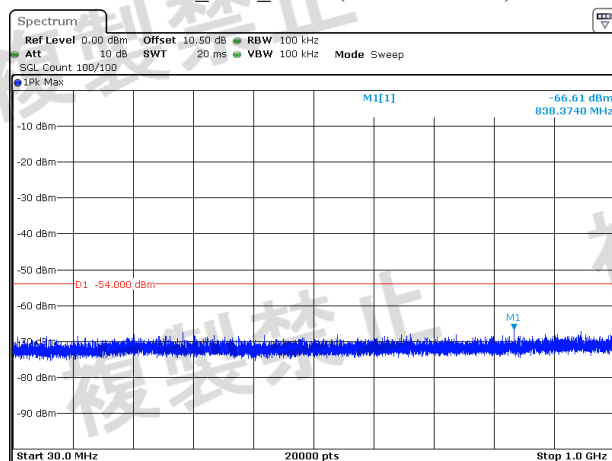
 $\pi/4$ -DQPSK_High_2DH1(30MHz~1GHz)

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:07:20

 $\pi/4$ -DQPSK_High_2DH1(1GHz~12.5GHz)

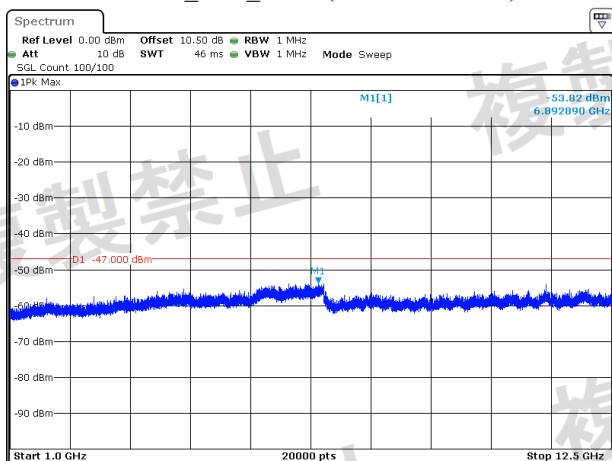
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:07:48

8DPSK_Low_3DH1(30MHz~1GHz)



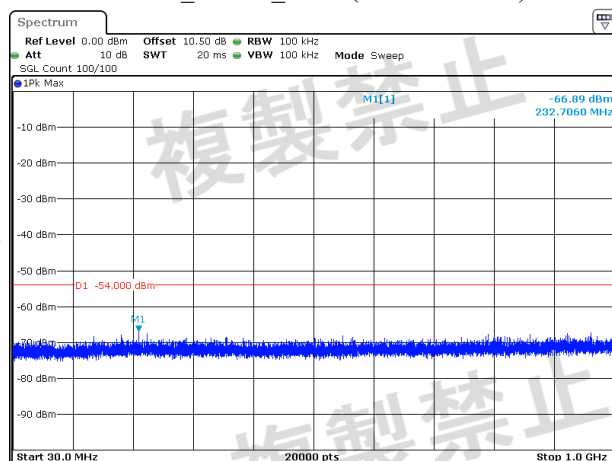
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:08:10

8DPSK_Low_3DH1(1GHz~12.5GHz)



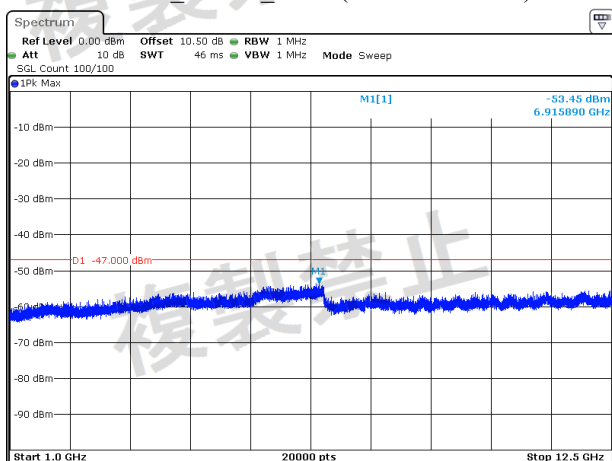
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:08:39

8DPSK_Middle_3DH1(30MHz~1GHz)



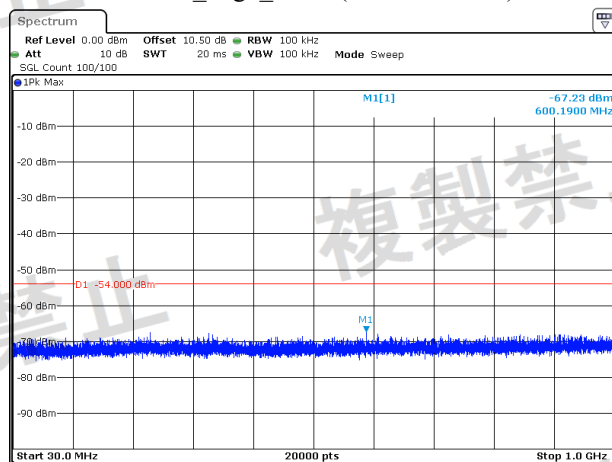
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:09:00

8DPSK_Middle_3DH1(1GHz~12.5GHz)



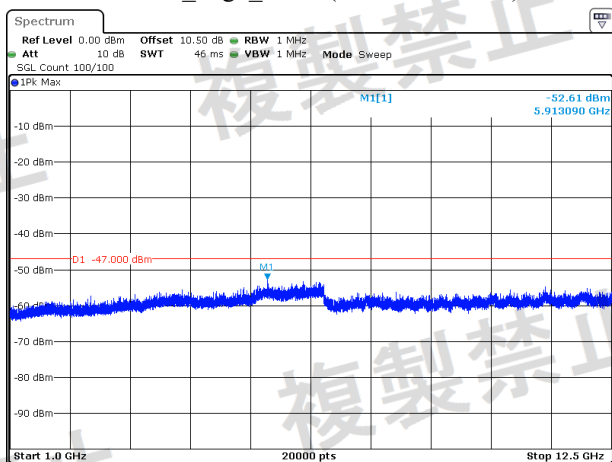
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:09:28

8DPSK_High_3DH1(30MHz~1GHz)



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:09:48

8DPSK_High_3DH1(1GHz~12.5GHz)



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 16:10:15

Frequency Hopping Dwell Time**Test Information:**

Sample No.:	33NI-2	Test Date:	2025/06/07~2025/07/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5~24.5	Relative Humidity: (%)	47~54	ATM Pressure: (kPa)	99.6~100.1
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Test Condition: NV

Mode	Packet Type	Spreading bandwidth	Ton (ms)	Observed Period(s)	Hopping Number In Observed Period	Result (s)	Limit(s)	Verdict
GFSK	DH1	71.393	0.378	28.6	208	0.079	≤ 0.4	Pass
	DH3	70.975	1.628	28.4	124	0.202	≤ 0.4	Pass
	DH5	71.059	2.871	28.4	83	0.238	≤ 0.4	Pass
$\pi/4$ -DQPSK	2DH1	71.142	0.380	28.5	215	0.082	≤ 0.4	Pass
	2DH3	71.309	1.625	28.5	130	0.211	≤ 0.4	Pass
	2DH5	71.226	2.869	28.5	87	0.250	≤ 0.4	Pass
8DPSK	3DH1	71.226	0.380	28.5	224	0.085	≤ 0.4	Pass
	3DH3	71.309	1.625	28.5	126	0.205	≤ 0.4	Pass
	3DH5	71.309	2.871	28.5	92	0.264	≤ 0.4	Pass

Note:

1. Dwell time = Time per one hopping (Ton) * hopping number (within the time obtained by multiplying the spread rate by 0.4s).
2. The Spread Bandwidth please refer to Section 4.3 Occupied Bandwidth and Spreading Bandwidth.
3. Ton refer to the Duty Cycle.

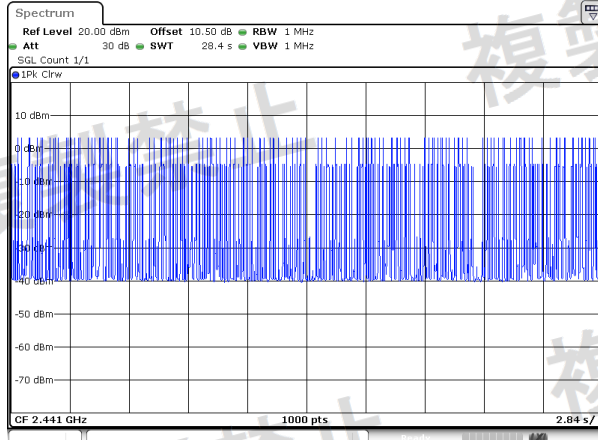
Test Condition: NV

GFSK_Hopping_DH1



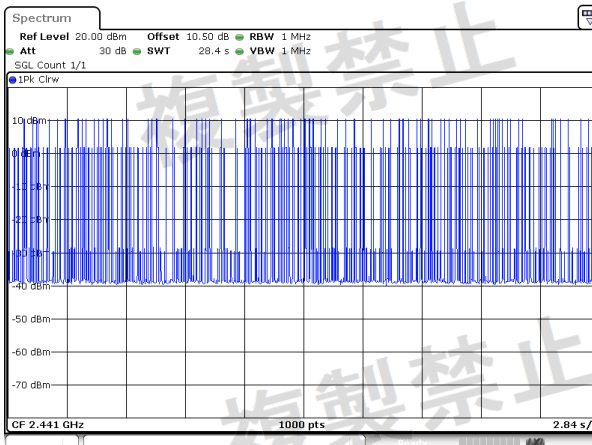
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:28:11

GFSK_Hopping_DH3

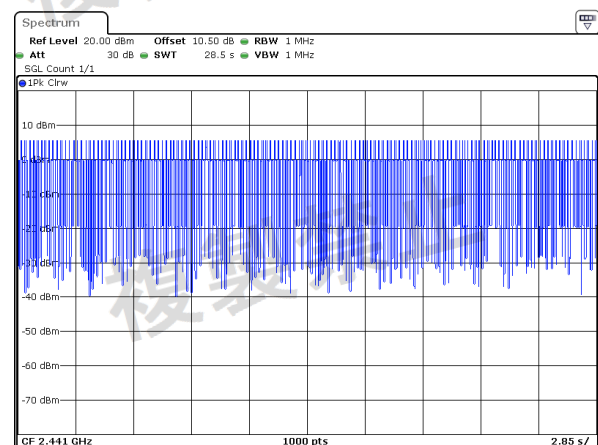


ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 27.JUN.2025 10:08:06

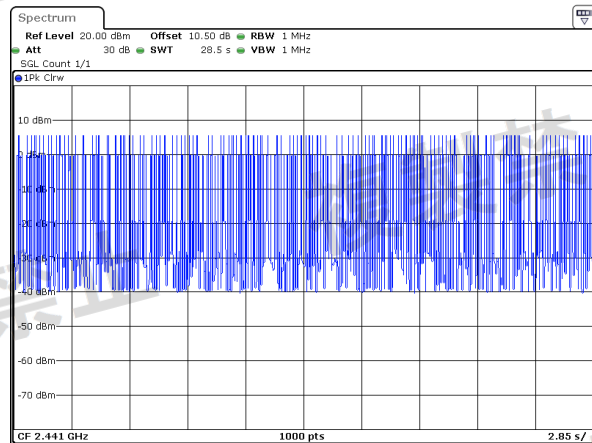
GFSK_Hopping_DH5



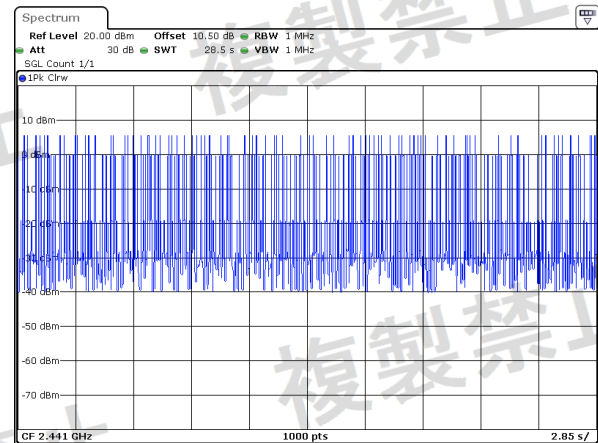
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 8.JUL.2025 15:14:12

 $\pi/4$ -DQPSK_Hopping_2DH1

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:30:36

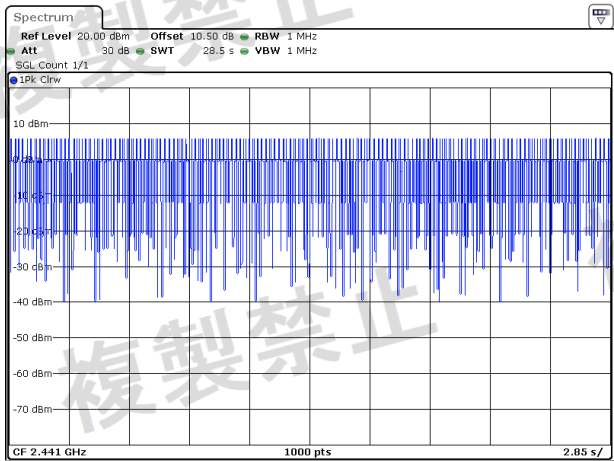
 $\pi/4$ -DQPSK_Hopping_2DH3

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:31:54

 $\pi/4$ -DQPSK_Hopping_2DH5

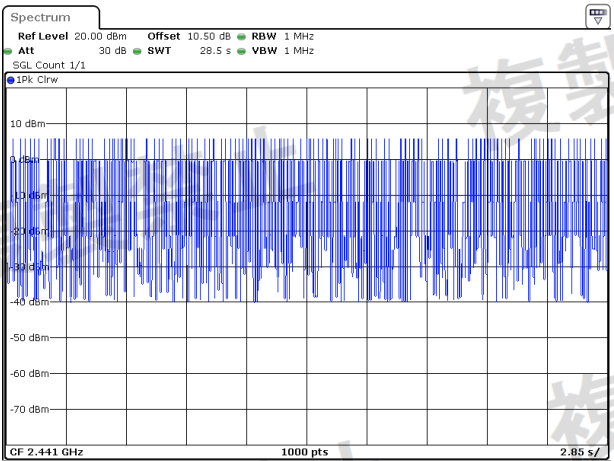
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:32:41

8DPSK_Hopping_3DH1



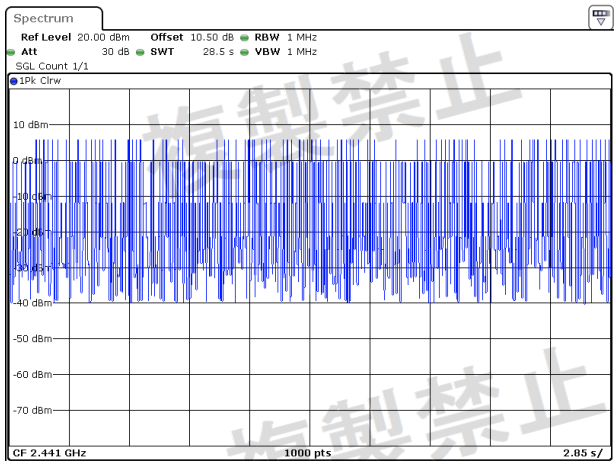
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:33:25

8DPSK_Hopping_3DH3



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:34:10

8DPSK_Hopping_3DH5



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 15:34:53

Duty Cycle**Test Information:**

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

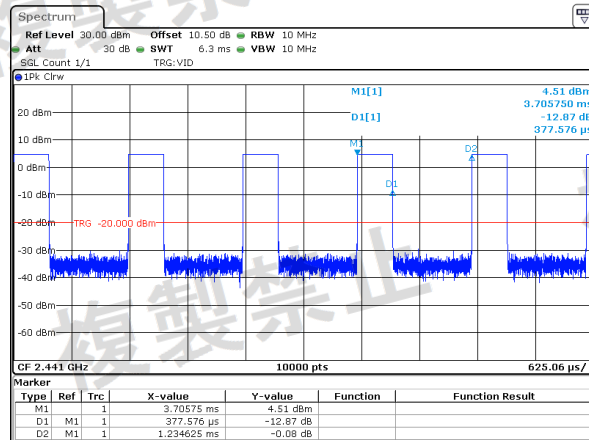
Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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Test Condition: NV

Mode	Packet Type	Ton (ms)	Ton+Toff (ms)	Duty cycle (%)
GFSK	DH1	0.378	1.235	30.61
	DH3	1.628	2.485	65.51
	DH5	2.871	3.734	76.89
$\pi/4$ -DQPSK	2DH1	0.380	1.235	30.77
	2DH3	1.625	2.485	65.39
	2DH5	2.869	3.734	76.83
8DPSK	3DH1	0.380	1.235	30.77
	3DH3	1.625	2.485	65.39
	3DH5	2.871	3.734	76.89

Test Condition: NV

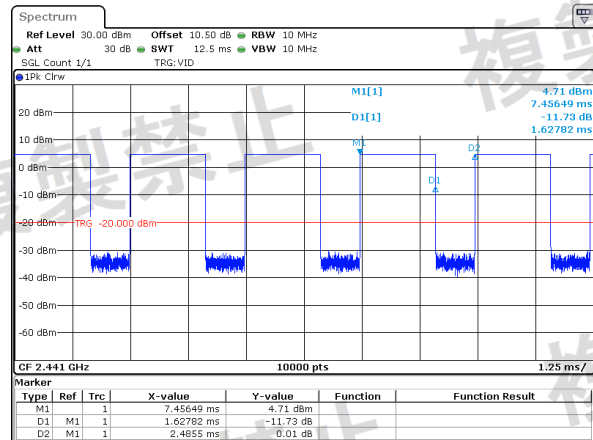
GFSK_Middle_DH1



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7.JUN.2025 14:17:03

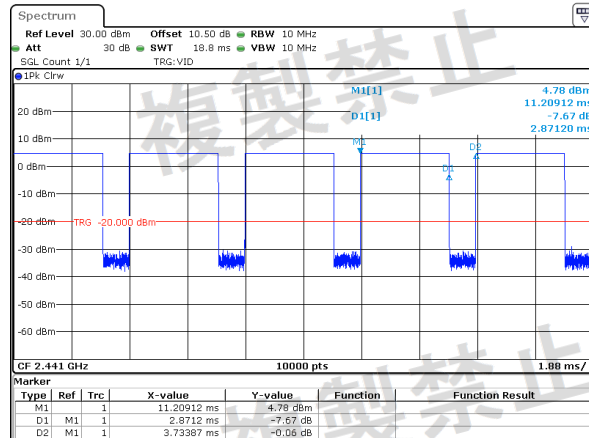
GFSK_Middle_DH3



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

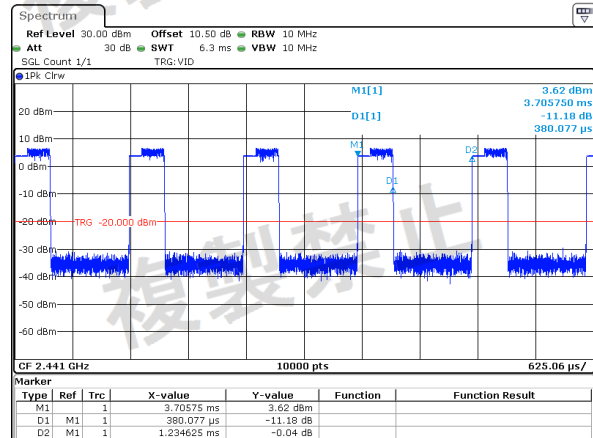
Date: 7.JUN.2025 14:17:42

GFSK_Middle_DH5



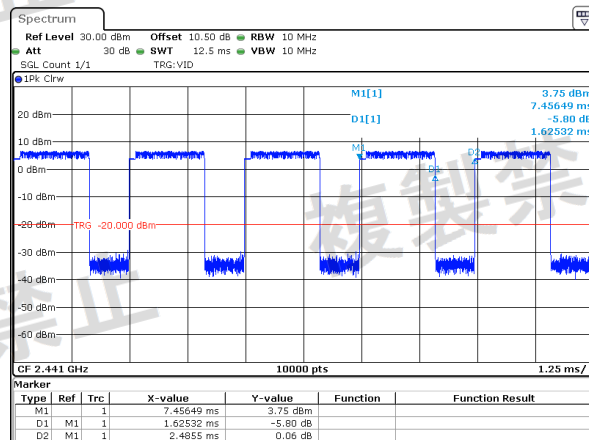
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7.JUN.2025 14:18:19

 $\pi/4$ -DQPSK_Middle_2DH1

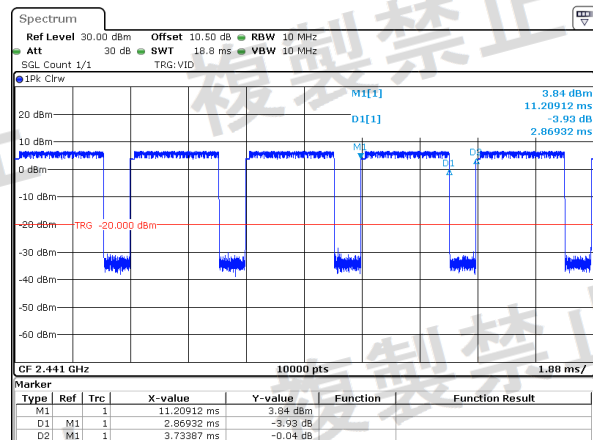
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

Date: 7.JUN.2025 14:19:22

 $\pi/4$ -DQPSK_Middle_2DH3

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

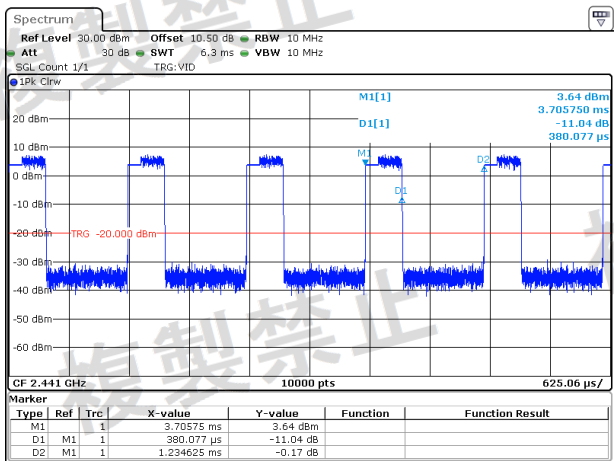
Date: 7.JUN.2025 14:20:01

 $\pi/4$ -DQPSK_Middle_2DH5

ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu

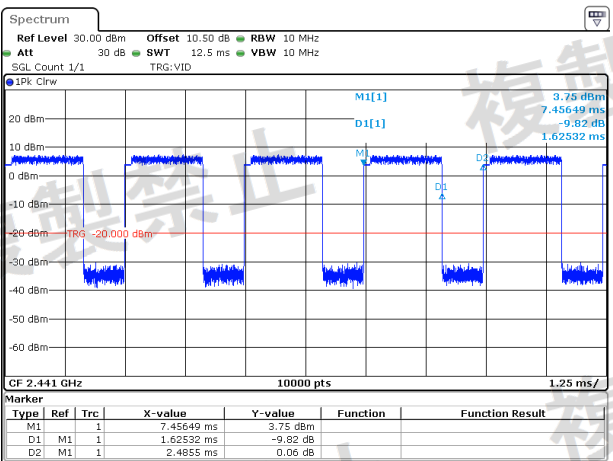
Date: 7.JUN.2025 14:20:52

8DPSK_Middle_3DH1



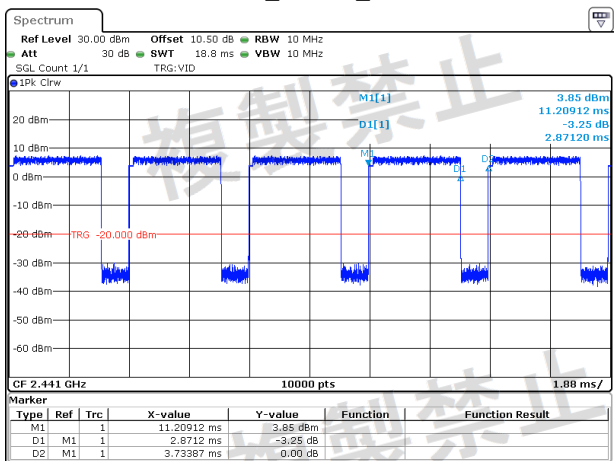
ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:13:48

8DPSK_Middle_3DH3



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:14:34

8DPSK_Middle_3DH5



ProjectNo.:2501T45782E-RF Tester:Rainbow Zhu
Date: 7.JUN.2025 14:15:12

Interference Prevention Function**Test Information:**

Sample No.:	33NI-2	Test Date:	2025/06/07
Test Site:	RF	Test Mode:	Communicating
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.0
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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

The EUT has shielding cover for the high-frequency section and modulation section of the radio which can't be opened easily, please see the EUT photos.

EUT PHOTOGRAPHS

Please refer to the attachment 2501T45782E-RF External photo and 2501T45782E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501T45782E-RF-07A Test Setup photo.

****END OF REPORT****