

TEST REPORT

Application No.: GZCR2605000979AT
Applicant: Innovative Technology Electronics, LLC
Address of Applicant: 3350 Walnut Street, Denver, Colorado 80205, United States of America
Manufacturer: Innovative Technology Electronics, LLC
Address of Manufacturer: 3350 Walnut Street, Denver, Colorado 80205, United States of America
Factory: SHENZHEN GUANGKAIYUAN TECHNOLOGY CO., LTD
Address of Factory: 205,302, Building 57, the 2nd Industrial Zone, Tianliao Community, Yvtang Sub-District, Guangming District, Shenzhen City, Guangdong Province, China
Product Name: VICTROLA JOURNEY II
Model No.: VSC-600SB, VSC-600SB-BLK-INT, VSC-600SB-PNK-INT, VSC-600SB-TRQ-INT, VSC-600SB-WHT-INT, VSC-600SB-BRW-INT, VSC-600SB-LVD-INT, VSC-600SB-BLU-INT, VSC-600SB-GRY-INT, VSC-600SB-MRN-INT♣
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark: VICTROLA
Standard(s) : MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2026-05-25
Date of Test: 2026-06-11
Date of Issue: 2026-08-13

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



Revision Record			
Version	Report No.	Date	Remark
01	GZCR260500097901	2026-08-13	Original

Authorized for issue by:			
		Luke Lin	
		Luke Lin/Project Engineer	
Approved By		Vico Cui	
		Vico Cui/Reviewer	



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	MIC Item 19 of Article 2 Paragraph 1	MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
RF accessibility		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Interference prevention capability	MIC Item 19 of Article 2 Paragraph 1	Article 2, Item (19) Notice 88 Appendix 43, 44, 45	MIC Item 19 of Article 2 Paragraph 1	Pass
Frequency Error		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Occupied Bandwidth(99%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spread spectrum Bandwidth(90%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Antenna Power and EIRP		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Dwell time		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spurious emission Intensity		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Limit of secondary radiated emissions		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Transmitting Antenna Absolute Gain		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Half Power Beam Angle		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A means Not applicable, please find the detailed decision rule in the report relative section.



✱ Declaration of EUT Family Grouping:

Model No.: VSC-600SB, VSC-600SB-BLK-INT, VSC-600SB-PNK-INT, VSC-600SB-TRQ-INT, VSC-600SB-WHT-INT, VSC-600SB-BRW-INT, VSC-600SB-LVD-INT, VSC-600SB-BLU-INT, VSC-600SB-GRY-INT, VSC-600SB-MRN-INT

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on mode No and the appearance colors

Therefore only one model VSC-600SB-MRN-INT was tested in this report.

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4 General Information

4.1 Details of E.U.T.

Power supply: Model: GKYZA0100050EU
INPUT: AC 100-240V 50/60Hz
OUTPUT: DC 5V 1A
Test voltage: AC 100V 60Hz
Cable(s): AC mains, 2 wires, 1.2m, unshielded.
Operation Frequency: 2402MHz to 2480MHz
Modulation Type: GFSK, p/4DQPSK, 8DPSK
Channel Spacing: 1MHz
Number of Channels: 79
Antenna Type: PCB Antenna
Antenna Gain: -0.68dBi
Power Class: <10mW

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25 \text{ E-8}$
Occupied Bandwidth(99%)	$\pm 0.274\%$
Spread spectrum Bandwidth(90%)	$\pm 0.274\%$
Antenna Power and EIRP	$\pm 0.75\text{dB}$
Dwell time	$\pm 0.029\%$
Spurious emission Intensity	$\pm 0.75\text{dB}$
Limit of secondary radiated emissions	$\pm 0.75\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

RF conducted test								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2136	1102098	2025-11-02	2026-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	MY533005511	2026-03-31	2027-03-30	LISAI	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2257	T2022.008	2026-03-31	2027-03-30	LISAI	
Test Software	TST	V2.0	GZE100-82	N/A	N/A	N/A	N/A	Test Software

Note: All the equipment above was built-in the test system and power meters were built-in 4X4 Power sensor Unit.

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
DMM	Fluke	73	EMC0006	70681569	2026-05-14	2027-05-13	SGS IND	Article 24-2, Paragraph 4 of the Radio Act



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.1.2 Conclusion

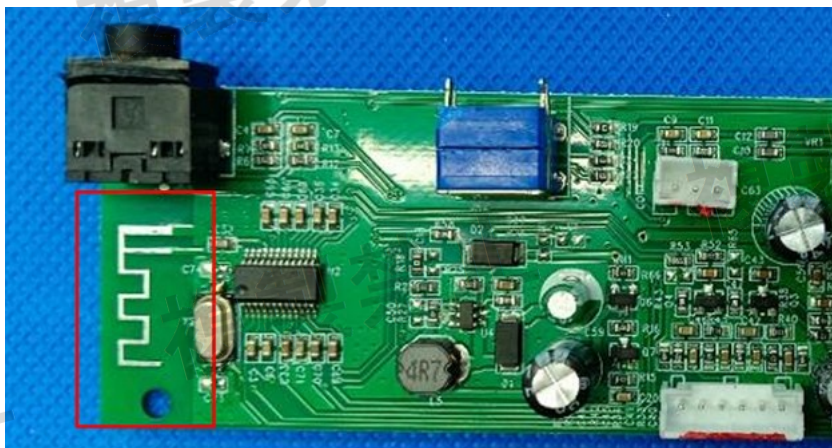
Standard requirement:

Applicable for equipment with an antenna terminal, including testing terminals. If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

EUT Details:

The antenna is integrated on the main PCB and no consideration of replacement.

The best case gain of the antenna is -0.68dBi.



Result:

An antenna connector is available, all relevant tests will be carried out conducted.

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6.2 RF accessibility

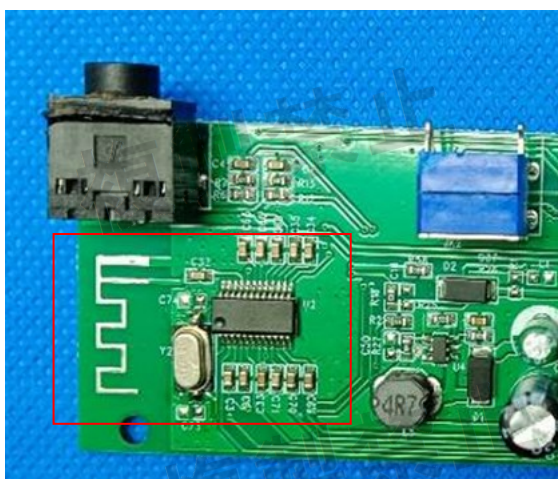
6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.2.2 Conclusion

Standard Requirement:

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.



EUT Details:

RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable parts on PCB or adjustable parts are not exposed.

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7 Radio Spectrum Matter Test Results

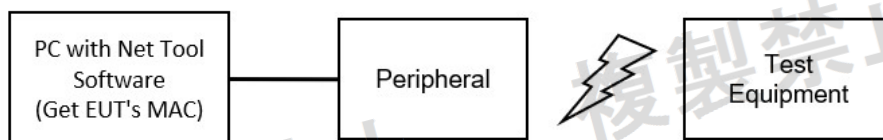
7.1 Interference prevention capability

Test Requirement: MIC Item 19 of Article 2 Paragraph 1
Test Method: Article 2, Item (19) Notice 88 Appendix 43, 44, 45
Test Engineer: Banna Ban

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 21.0 °C Humidity: 68.0 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

Standard Requirement:

Test Procedure:

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

MAC address: 5A:43:00:2F:2A:77

Please refer to blow photo.

EUT Details: The unit does meet the requirements (Good).



7.2 Frequency Error

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Test Engineer:	Banna Ban
Limit:	Tolerance of frequency: $\pm 50 \times 10^{-6}$

7.2.1 E.U.T. Operation

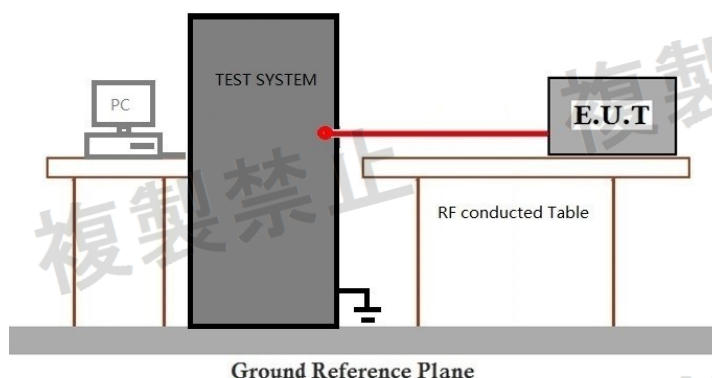
Operating Environment:

Temperature: 21.0 °C Humidity: 68.0 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX_Keep the EUT in transmitting mode

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Alternative method:

Frequency: Test Frequency

Span 2 times channel bandwidth

RBW 100 kHz (Modulation ON),

VBW 100 kHz (Modulation ON),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Please Refer to Appendix for Details



7.3 Occupied Bandwidth(99%)

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Test Engineer:	Banna Ban
Limit:	FH: 83.5MHz or less OFDM: within 26MHz or 26-40MHz Others: 26MHz or less

7.3.1 E.U.T. Operation

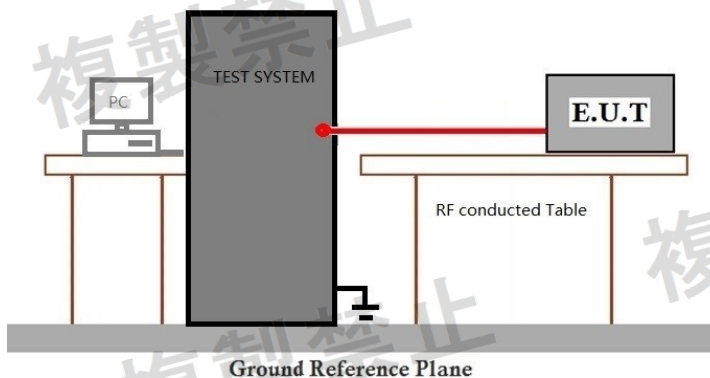
Operating Environment:

Temperature: 21.0 °C Humidity: 68.0 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX_Keep the EUT in transmitting mode

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data**1. Test Conditions:**

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS); 2-5 times OBW (Others)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3% OBW (Others)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3 times RBW (Others)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 99%

Please Refer to Appendix for Details



7.4 Spread spectrum Bandwidth(90%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1
 Test Method: MIC Notice No.88 Appendix No.43
 Test Engineer: Banna Ban

7.4.1 E.U.T. Operation

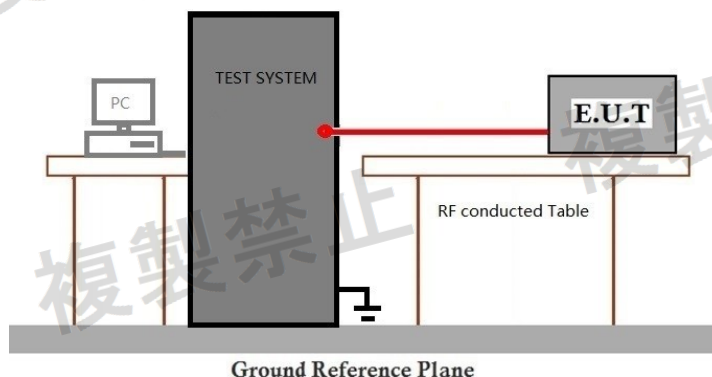
Operating Environment:

Temperature: 21.0 °C Humidity: 68.0 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX_Keep the EUT in transmitting mode

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 90%

Please Refer to Appendix for Details



7.5 Antenna Power and EIRP

Test Requirement

MIC Item 19 of Article 2 Paragraph 1

Test Method:

MIC Notice No.88 Appendix No.43

Test Engineer:

Banna Ban

Limit:

Designated value

(1) FH, FH+DS, FH+OFDM: 3mW/MHz

(used in the range of 2427 - 2470.75 MHz)

(2) OFDM, DS other than (1) 10mW/MHz

(3) Other than (1) & (2) 10mW

(4) OFDM OBW 26 - 40MHz: 5mW/MHz

Tolerance: ≤20%

EIRP: Above upper limit for DSSS, OFDM, FHSS and GFSK + 2.14dBi or less

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C

Humidity: 68.0 % RH

Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

Pre-scan / Mode

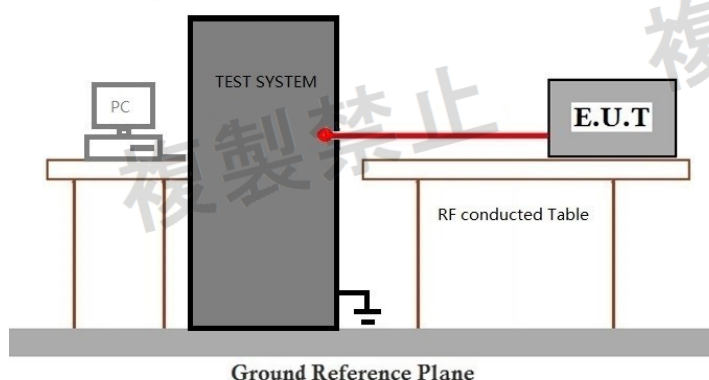
Final test Code

Description

Final test 00

TX_Keep the EUT in transmitting mode

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

1. Test Conditions:

Power meter is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard cod-ing test signal.

3. Test Procedures:

1). The EUT was directly connected to the power meter.

2). The EUT was set to fixed frequency mode.

Please Refer to Appendix for Details



7.6 Dwell time

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Test Engineer:	Banna Ban
Limit:	less than 0.4sec

7.6.1 E.U.T. Operation

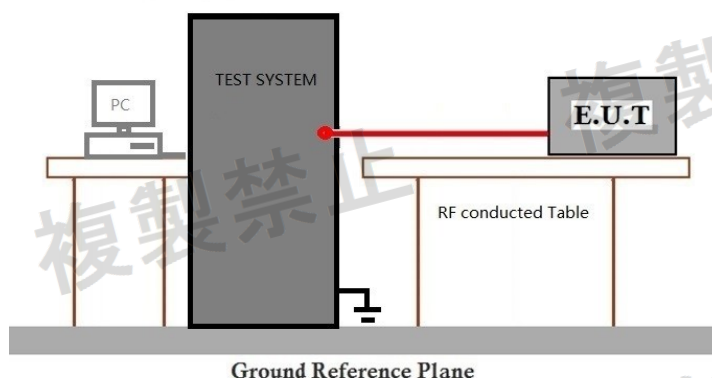
Operating Environment:

Temperature: 21.0 °C Humidity: 68.0 % RH Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX_Keep the EUT in transmitting mode

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Hopping frequency is fixed, Bluetooth equipment is setting DH5 mode

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency (fixed hopping frequency)

Span 0 Hz

RBW 1 MHz

VBW 1 MHz

Sweep Time EUT condition

Trigger Video Trigger

Measures the Transmission time of 1 burst (sec)

Measures the Burst cycle (sec)

4. Calculation procedure:

Dwell time = $(0.4(s) \times [\text{spreading rate}] \times [\text{Transmission time of 1 burst(s)}]) / ([\text{burst cycle(s)}] \times [\text{No. of hopping channel}])$

Note:

* Spreading rate = $[\text{Spread bandwidth (actual measurement value)}] / [\text{Transmission rate}]$

Please Refer to Appendix for Details



7.7 Spurious emission Intensity

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Test Engineer:	Banna Ban
Limit:	(1) Below 2387 MHz: 2.5 μ W/MHz (2) 2387 to 2400 MHz: 25 μ W/MHz (3) 2483.5 through 2496.5 MHz: 25 μ W/MHz (4) Over 2496.5 MHz: 2.5 μ W/MHz

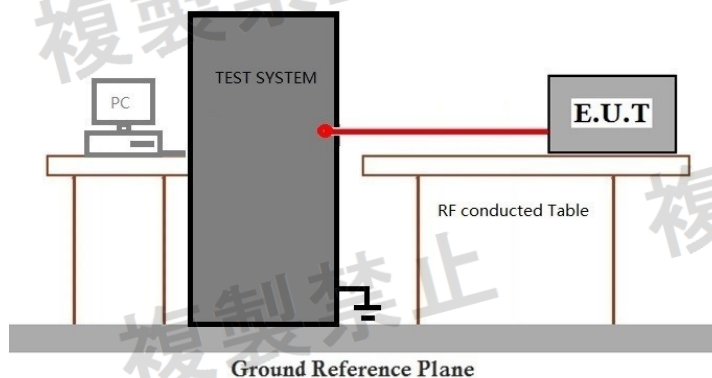
7.7.1 E.U.T. Operation

Operating Environment:	
Temperature:	21.0 °C
Humidity:	68.0 % RH
Atmospheric Pressure:	1005 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX_Keep the EUT in transmitting mode

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

If the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz, 2483.5 MHz -13 GHz

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



7.8 Limit of secondary radiated emissions

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Test Engineer:	Banna Ban
Limit:	(1) Below 1 GHz: 4 nW or less (2) 1 GHz and over: 20 nW or less

7.8.1 E.U.T. Operation

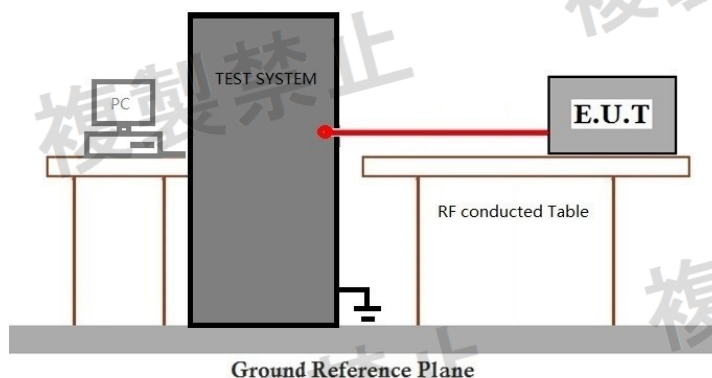
Operating Environment:

Temperature: 21.0 °C Humidity: 68.0 % RH Atmospheric Pressure: 1005 mbar

7.8.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 01	RX_Keep the EUT in receiving mode

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

If the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz, 2483.5 MHz -13 GHz

RBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

RBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



7.9 Transmitting Antenna Absolute Gain

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Banna Ban

Limit:

(1) FHSS, FHSS+DSSS, FHSS+OFDM with a frequency range that includes 2427 MHz to 2470.75 MHz

Limit [dBi] = 12.14 [dBi] + 10log3 [dBm/MHz] – 10log P [dBm/MHz]

(2) OFDM where OBW ranges from 26 MHz to 40 MHz.

Limit [dBi] = 12.14 [dBi] + 10log5 [dBm/MHz] – 10log P [dBm/MHz]

(3) Other than (1) and (2)

Limit [dBi] = 12.14 [dBi] + 10log10 [dBm/MHz] – 10log P [dBm/MHz]

Where:

P is the rated output power declared in the construction design document [mW]

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C

Humidity: 68.0 % RH

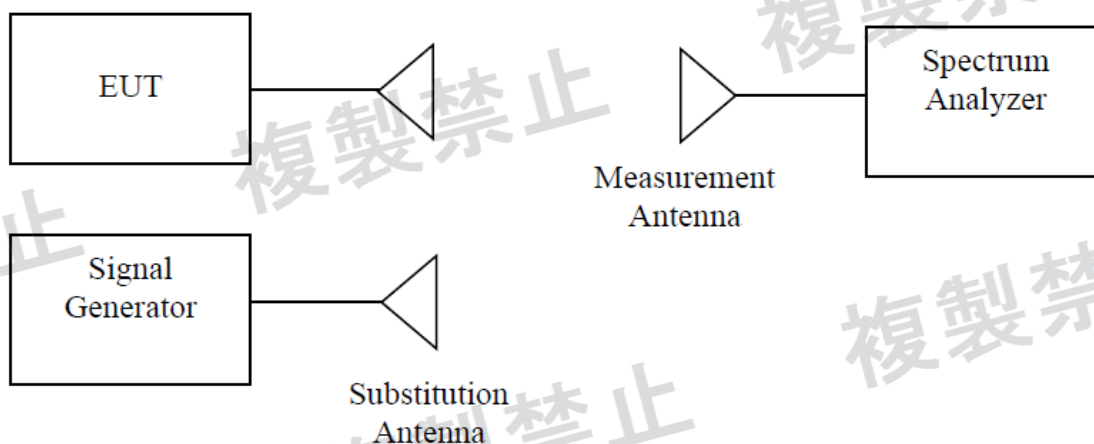
Atmospheric Pressure: 1005 mbar

7.9.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

Final test	00	TX_Keep the EUT in transmitting mode
------------	----	--------------------------------------

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

- (1) Set the EUT on the turntable, positioned at the same height as the measurement antenna. Enable EUT transmit mode.
- (2) To find the EUT's maximum EIRP(E), rotate the EUT using the turntable and move the height of the measurement antenna (approximately +/-50cm)
- (3) Replace the EUT with the substitution antenna and point the substitution antenna towards the measurement antenna. Enable the signal generator's RF output and check the measurement antenna is receiving the generator's signal
- (4) To find the direction of the peak output level, rotate the substitution antenna and lock it at the position of maximum received signal
- (5) To find the peak output level, move the height of the measurement antenna (approximately +/-50cm) and lock it at the position of maximum received signal
- (6) To find the same EIRP level as found in (2), adjust the Output Level (Ps) of the signal generator
- (7) Calculate the EUT's Antenna Gain using the following formula:

Antenna Gain = GS – LF + PS – PE

Where:

GS: substitution antenna gain [dBi]

LF: cable loss [dB]

PS: signal generator output level [dBm]

PE: EUT measured output power at RF feed point

Conclusion:

The max EIRP refers to section 3.1.2 of appendix ≤ 12.14dBm, so the Transmitting Antenna Absolute Gain exemption testing.

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7.10 Half Power Beam Angle

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Banna Ban

Limit:

Antenna Beamwidth Limit = $360 / A$ (in degrees)

Where:

A is a dimensionless value calculated using the formula below.

– Note: if the calculated value of A is less than 1, then set A = 1

$A = (P \times G) / EIRP_{ref}$

Where:

P - Rated output power declared in the construction design document [mW]

G - Measured Antenna Gain [dimensionless multiplier]

EIRP_{ref} - An absolute value categorized by the three cases shown below:

(1) FHSS, FHSS+DSSS, FHSS+OFDM, ranging from 2427 MHz to 2470.75 MHz

4.91 mW/MHz (6.91 dBm/MHz)

(2) DSSS, OFDM, FHSS, FHSS+DSSS, FHSS+OFDM

16.36 mW/MHz (12.14 dBm/MHz)

(3) Other than (1), (2)

16.36 mW (12.14 dBm)

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C

Humidity: 68.0 % RH

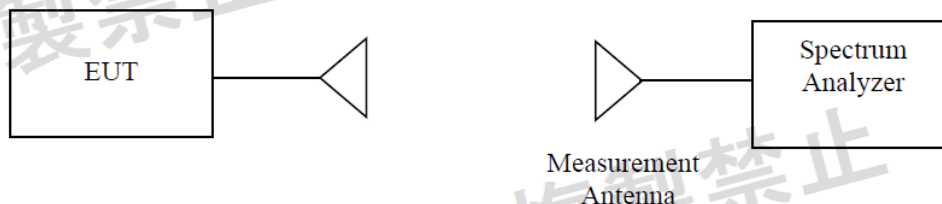
Atmospheric Pressure: 1005 mbar

7.10.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	TX_Keep the EUT in transmitting mode



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

- (1) Set the EUT on the turntable, positioned at the same height as the measurement antenna. Enable EUT transmit mode.
- (2) Configure the spectrum analyzer to [Setting 1]
- (3) To find the EUT's maximum EIRP (E), rotate the EUT using the turntable and move the height of the measurement antenna (approximately +/-50cm)
- (4) Rotate the EUT, both sides of the maximum EIRP point, to find the positions (offset angles) that are 3dB below
- (E); the Measured Antenna Beamwidth is the sum of these two angles
- (5) Check the Measured Antenna Beamwidth is less than the Calculated Antenna Beamwidth Limit defined in Section 14.7
- (6) Rotate the EUT to measure the EIRP at all angles other than the Measured Antenna Beamwidth calculated in (4). Check that the EIRPs are all at least 3dB less than (E)
- (7) To change the polarization of EUT's antenna, rotate the EUT 90 degrees about the plane pointing towards the measurement antenna. Then repeat the same procedure in steps (3) through (5).

Conclusion:

The max EIRP refers to section 3.1.2 of appendix $\leq 12.14\text{dBm}$, so the Half Power Beam Angle exemption testing.



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2605000979AT



9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for GZCR2605000979AT



10 Appendix

1. Frequency Error

1.1 Test Result

1.1.1 Ant1

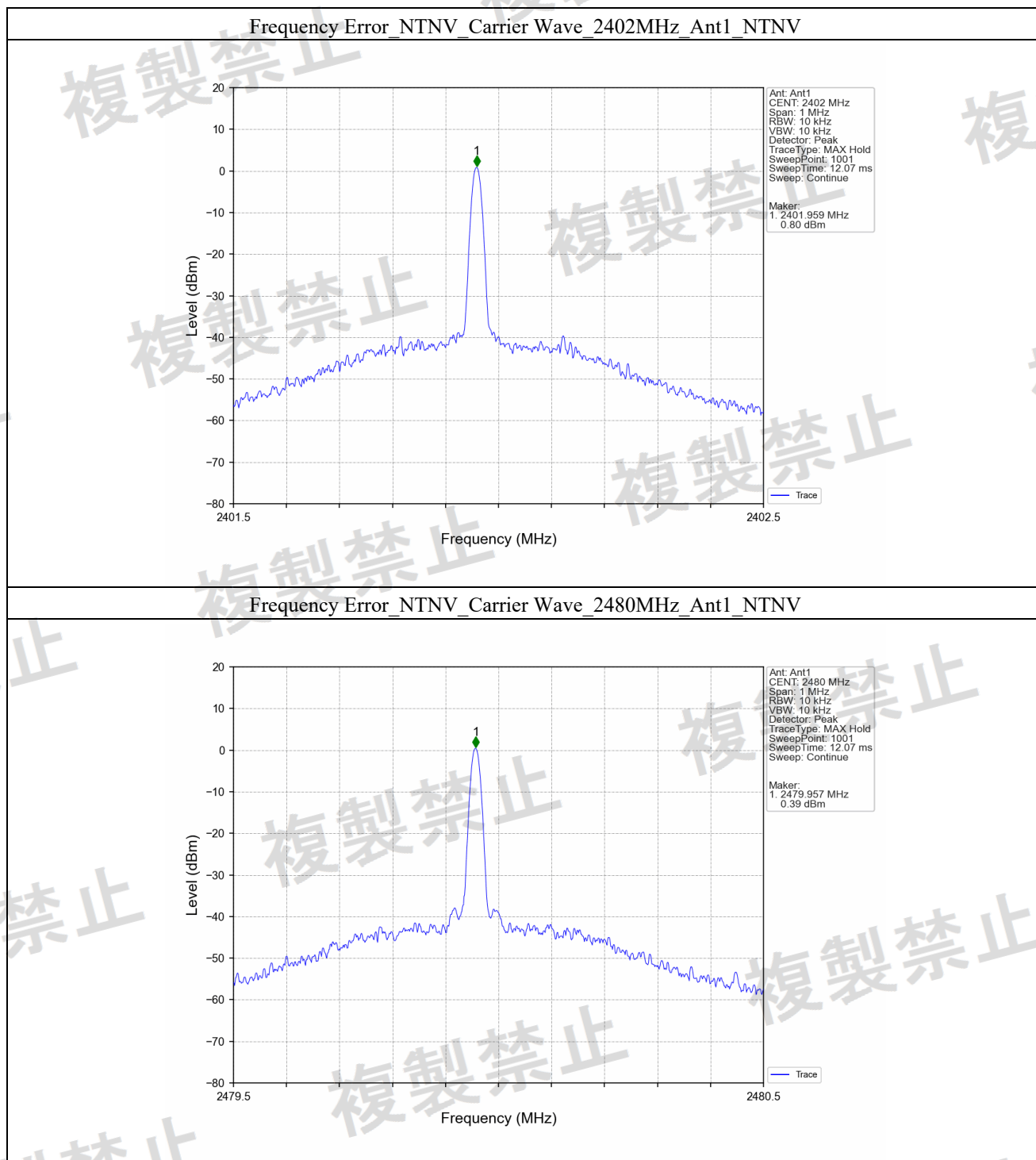
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	Carrier Wave	SISO	2402	DH5	2401.959	-17.07	-50 to 50	Pass
			2480	DH5	2479.957	-17.34	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	DH5	2401.959	-17.07	-50 to 50	Pass
			2480	DH5	2479.957	-17.34	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	DH5	2401.959	-17.07	-50 to 50	Pass
			2480	DH5	2479.957	-17.34	-50 to 50	Pass

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1.2 Test Graph

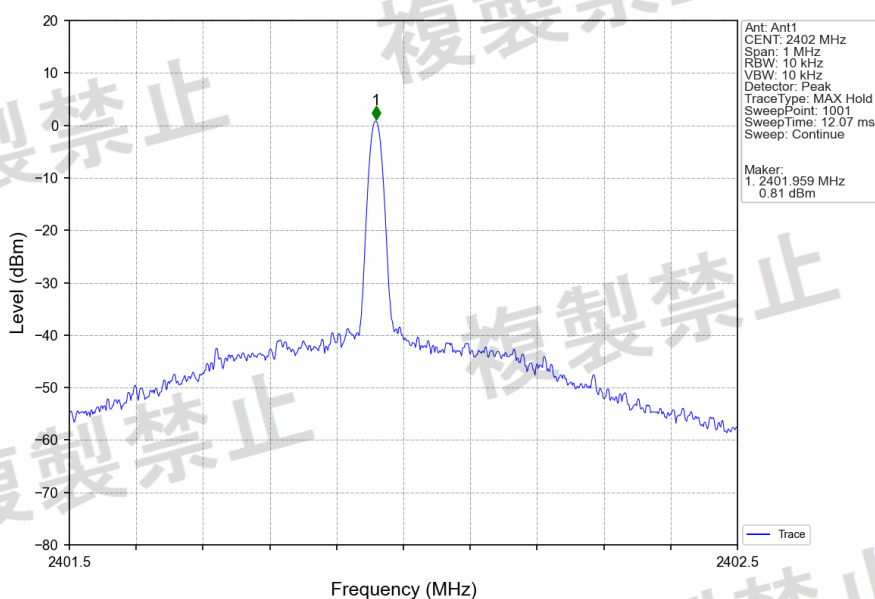
1.2.1 Ant1



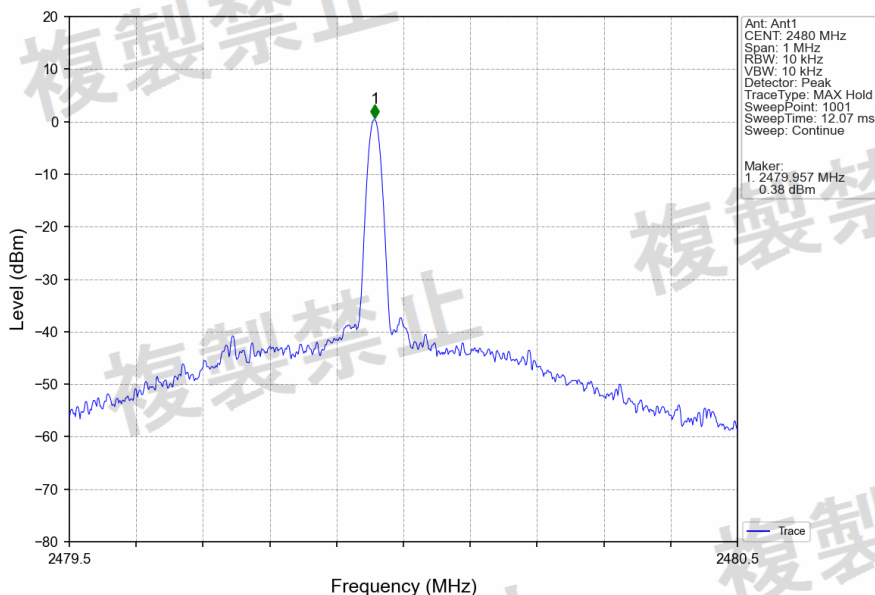
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Frequency Error_NTLV_Carrier Wave_2402MHz_Ant1_NTLV



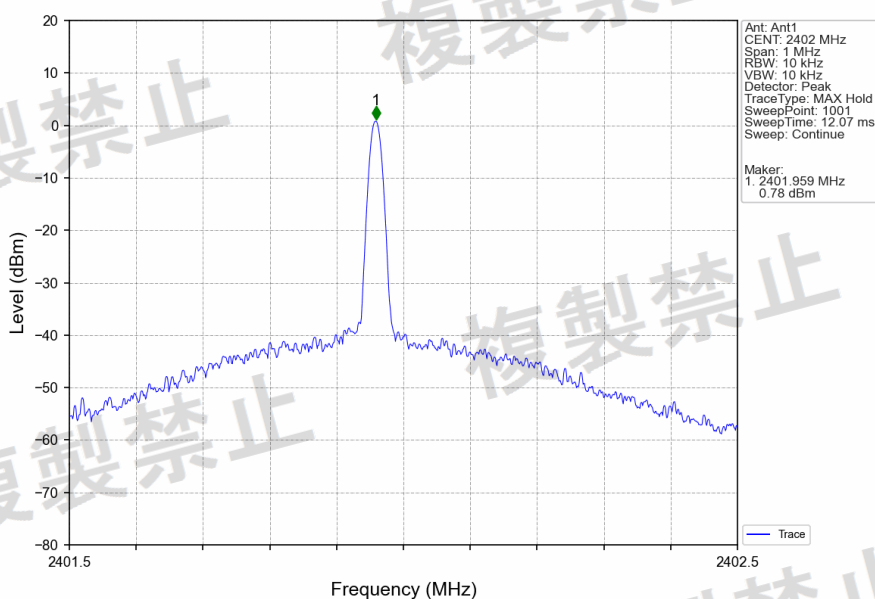
Frequency Error_NTLV_Carrier Wave_2480MHz_Ant1_NTLV



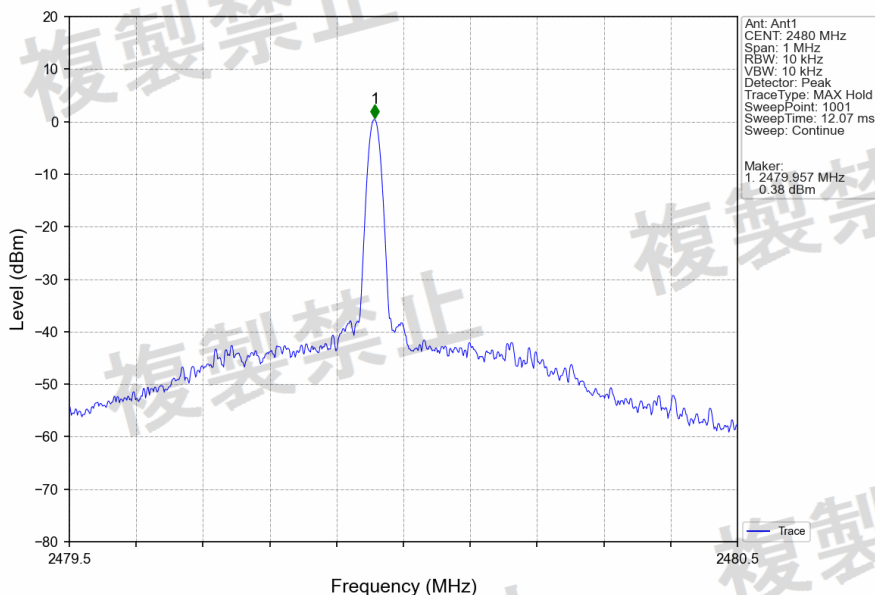
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Frequency Error_NTHV_Carrier Wave_2402MHz_Ant1_NTHV



Frequency Error_NTHV_Carrier Wave_2480MHz_Ant1_NTHV



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2. Occupied Bandwidth

2.1 Test Result

2.1.1 OBW

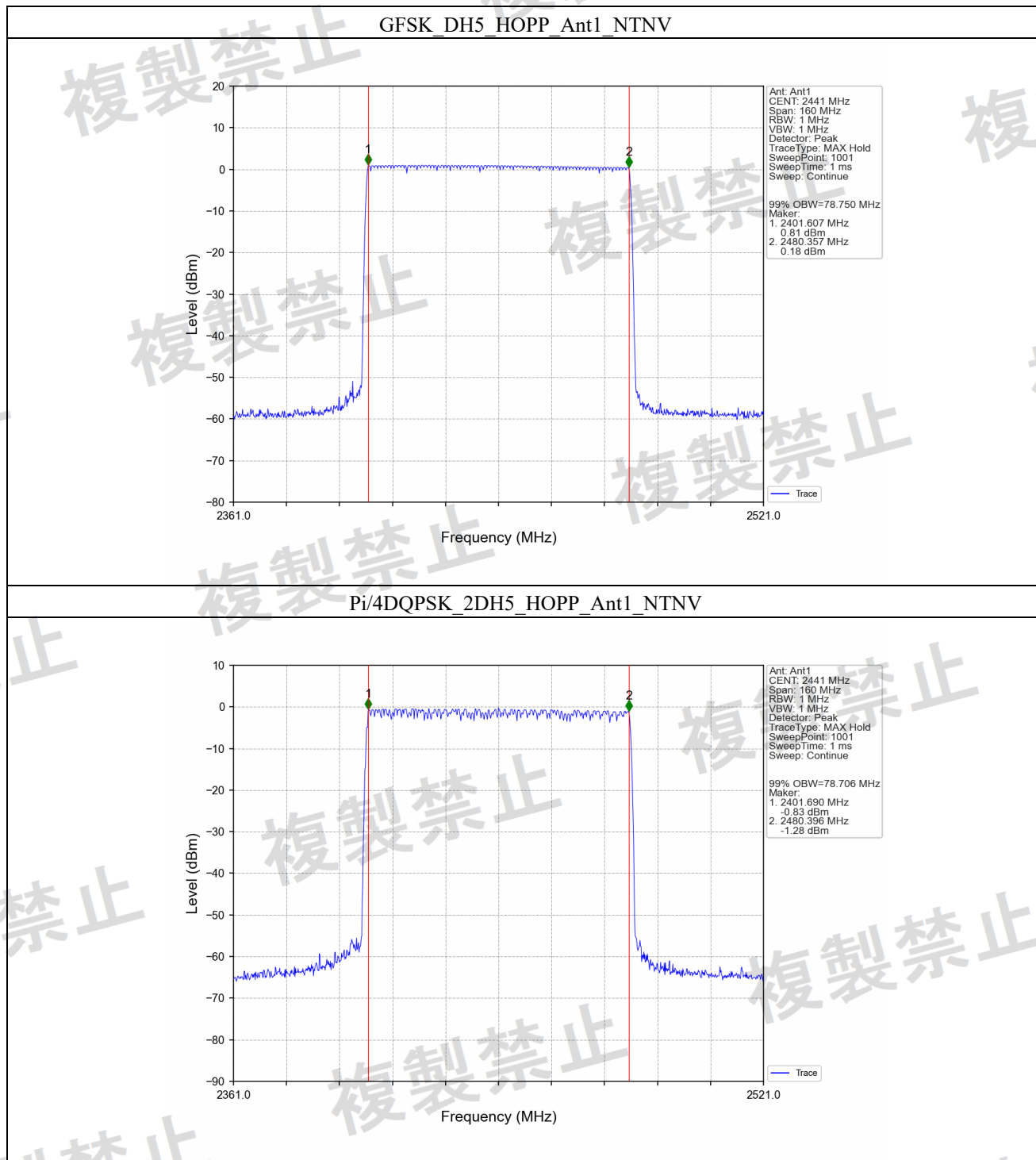
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.750	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.706	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.794	≤ 83.5	Pass
NTLV	GFSK	SISO	HOPP	DH5	78.719	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.755	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.712	≤ 83.5	Pass
NTHV	GFSK	SISO	HOPP	DH5	78.461	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.822	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.799	≤ 83.5	Pass

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2.2 Test Graph

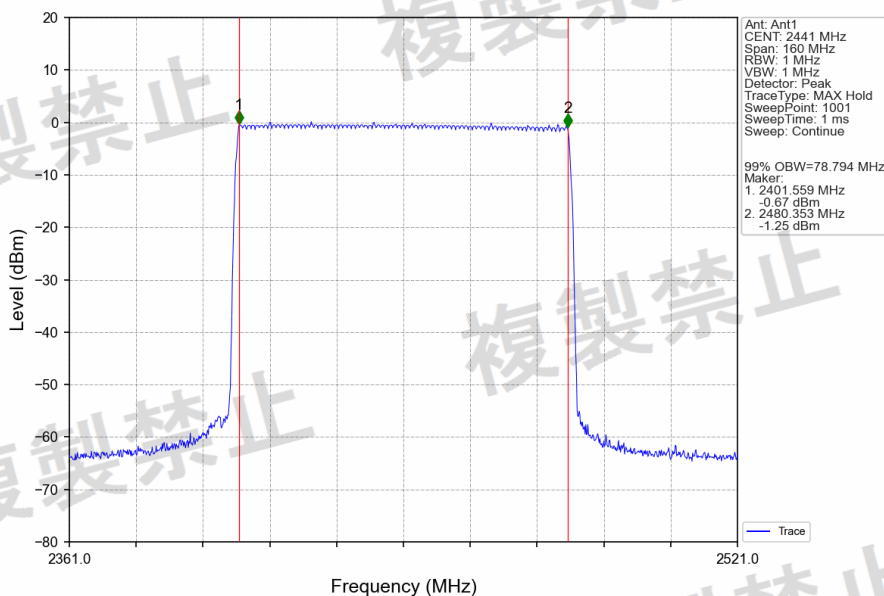
2.2.1 OBW



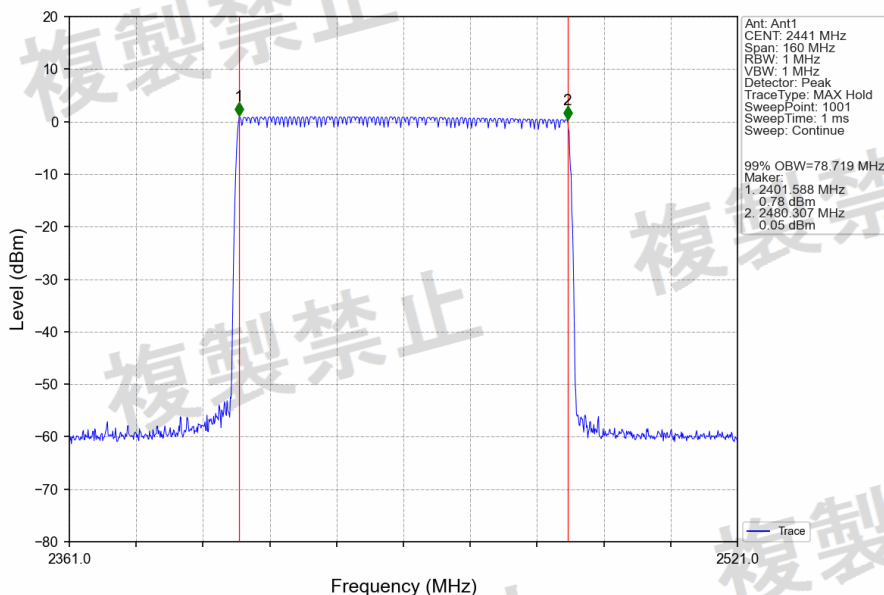
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8DPSK_3DH5_HOPP_Ant1_NTNV



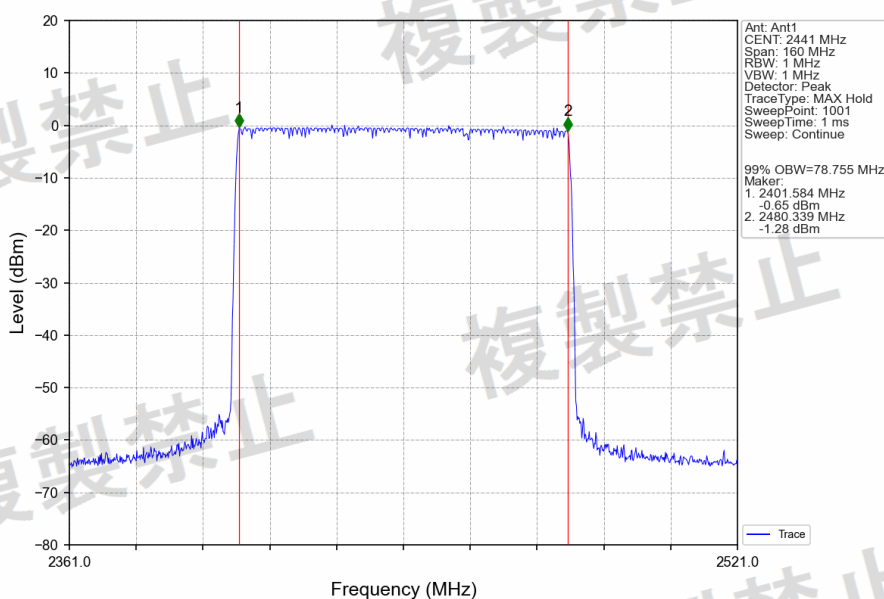
GFSK_DH5_HOPP_Ant1_NTLV



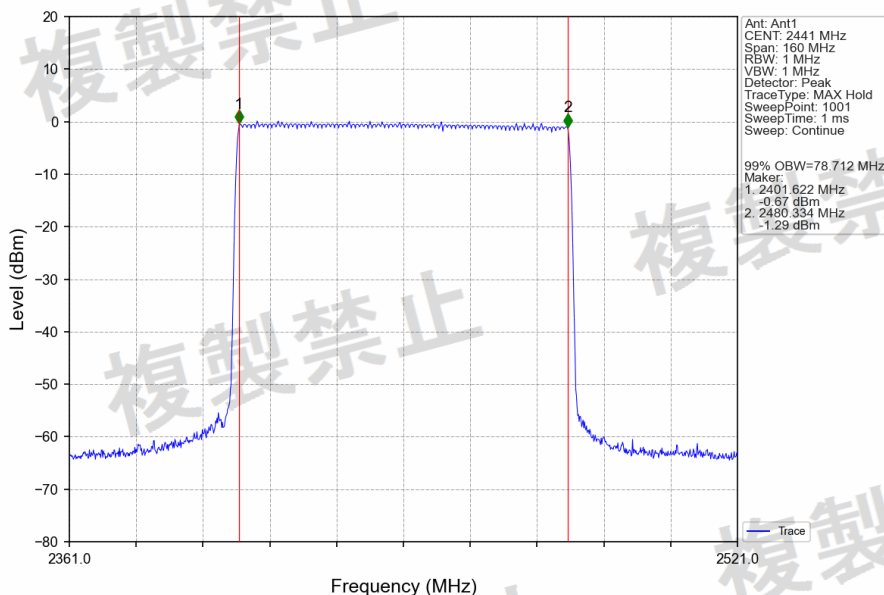
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV

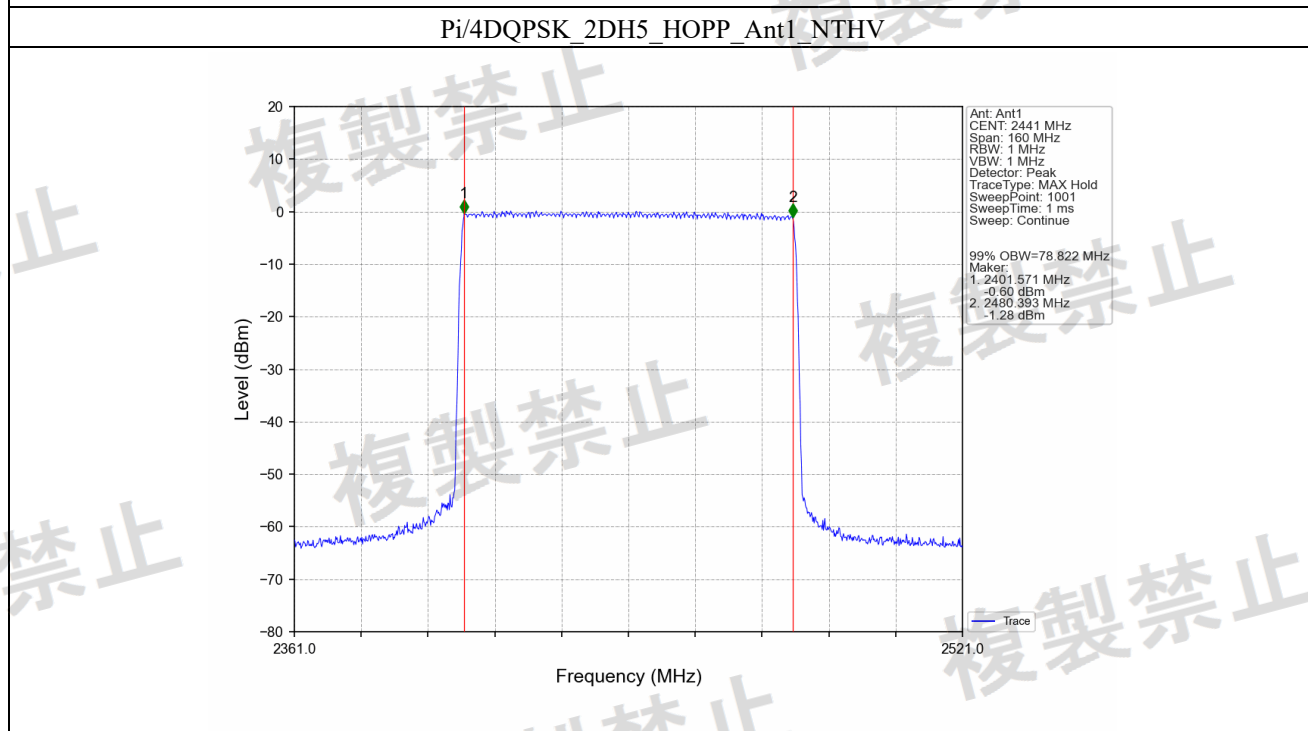
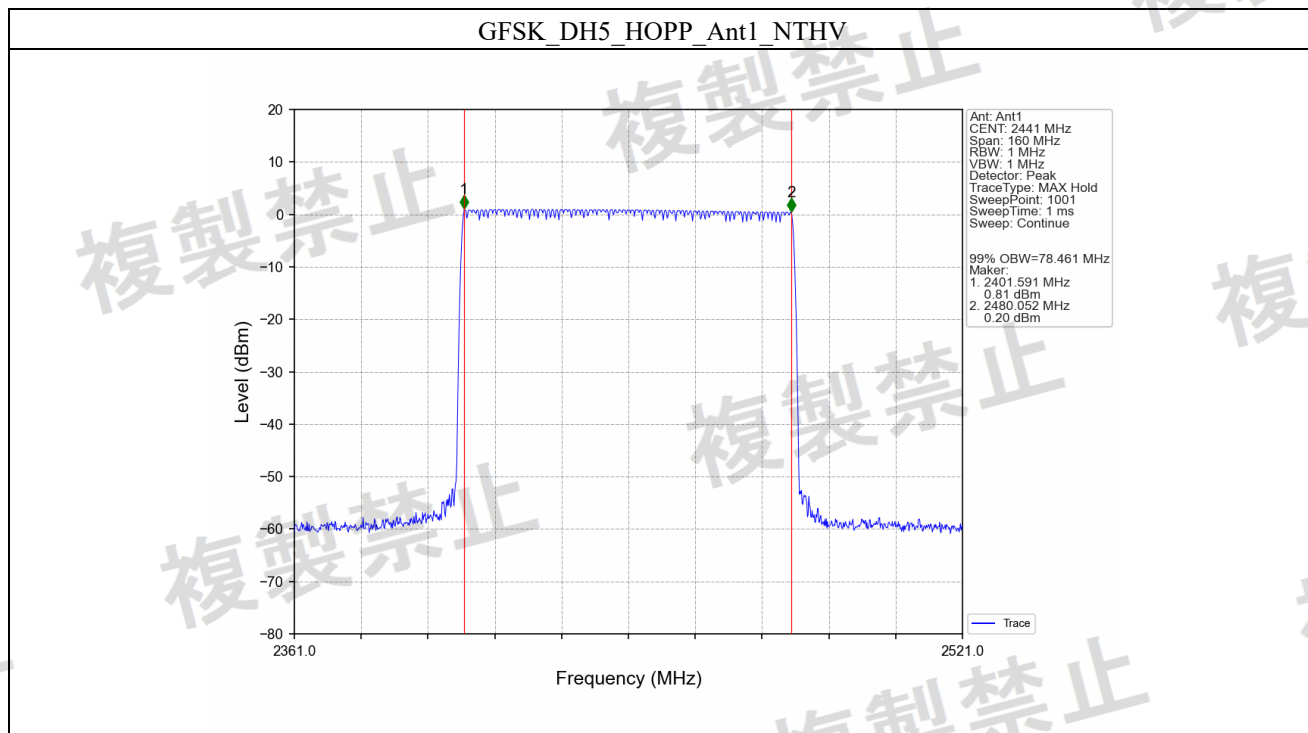


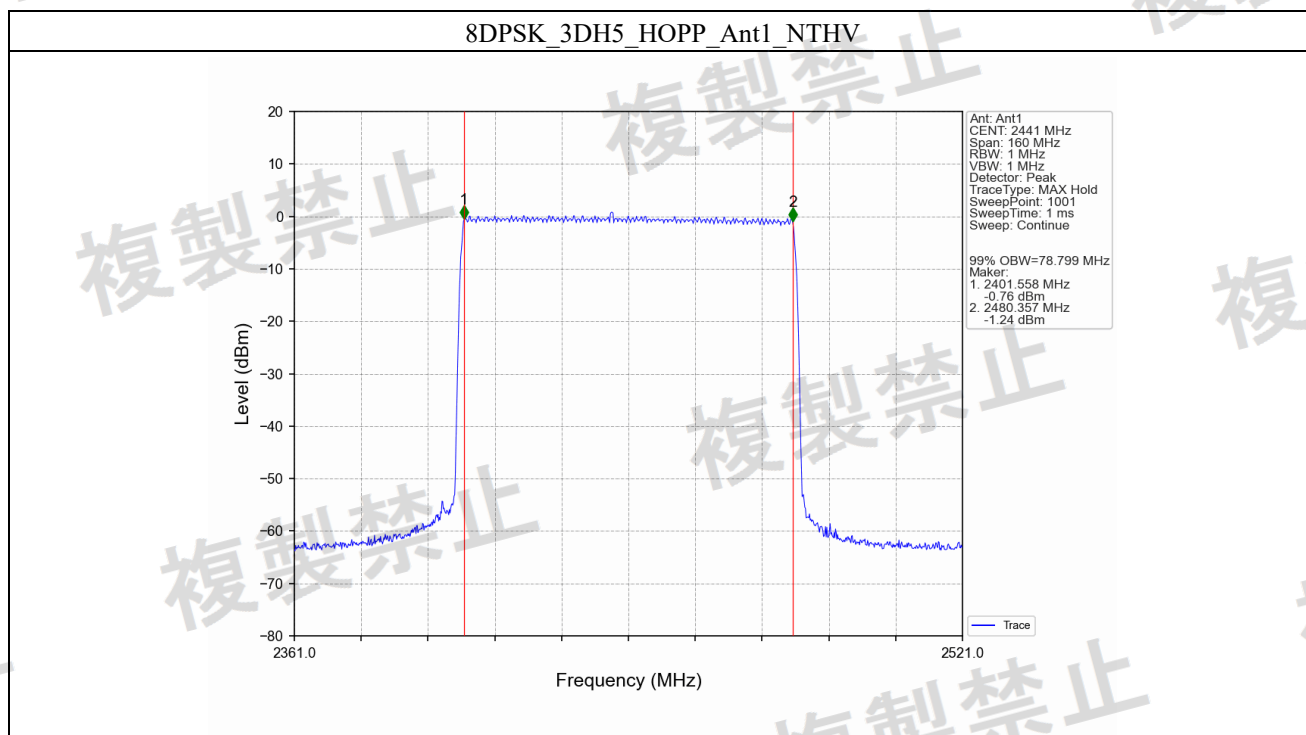
8DPSK_3DH5_HOPP_Ant1_NTLV



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3. Spread Bandwidth

3.1 Test Result

3.1.1 SPBW

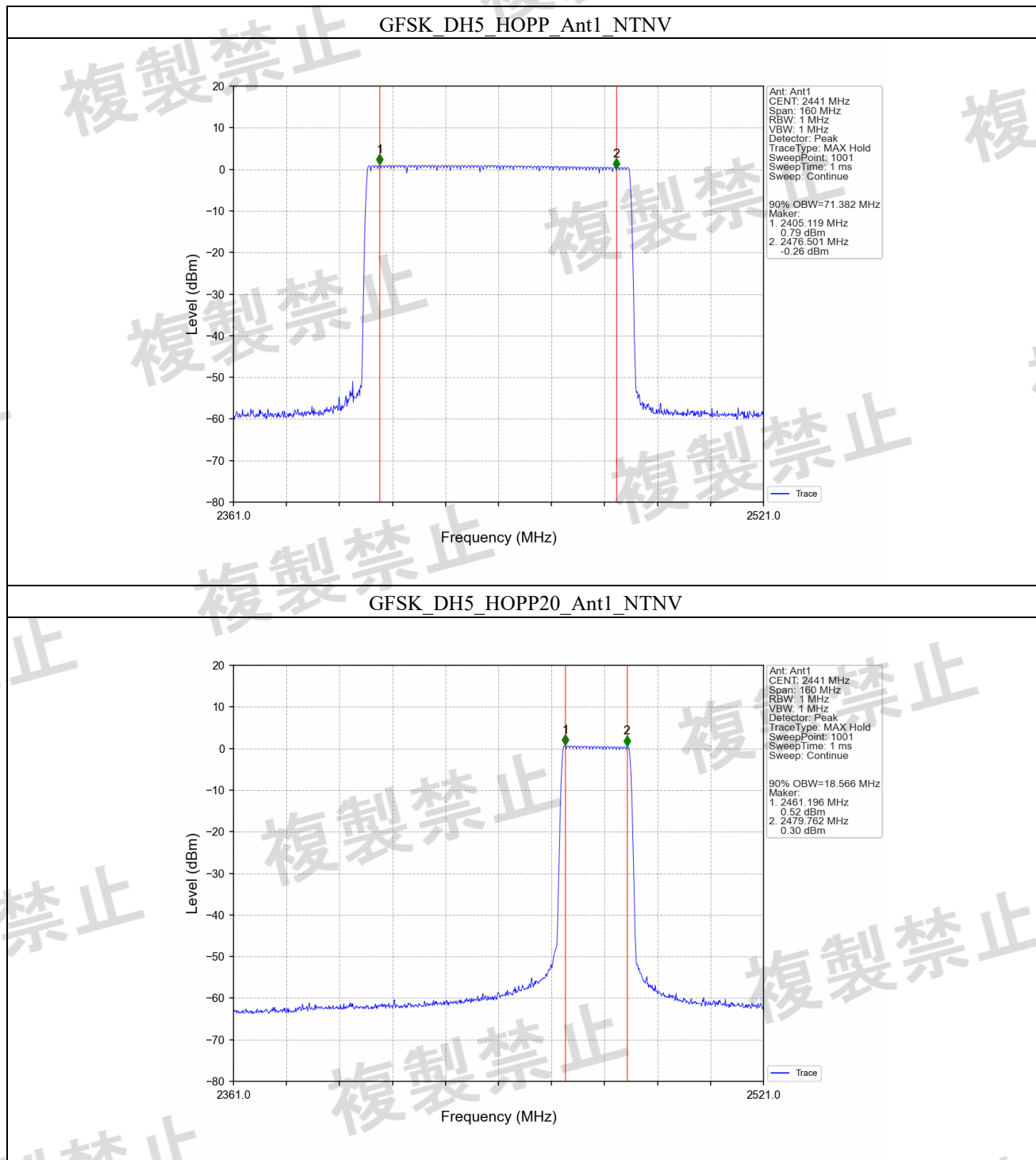
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	71.382	/	Only For Report
			HOPP20	DH5	18.566	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.652	/	Only For Report
			HOPP20	2DH5	18.551	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.380	/	Only For Report
			HOPP20	3DH5	18.515	/	Only For Report
NTLV	GFSK	SISO	HOPP	DH5	71.400	/	Only For Report
			HOPP20	DH5	18.558	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.209	/	Only For Report
			HOPP20	2DH5	18.685	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.250	/	Only For Report
			HOPP20	3DH5	18.433	/	Only For Report
NTHV	GFSK	SISO	HOPP	DH5	71.144	/	Only For Report
			HOPP20	DH5	18.559	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.281	/	Only For Report
			HOPP20	2DH5	18.651	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.425	/	Only For Report
			HOPP20	3DH5	18.644	/	Only For Report

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3.2 Test Graph

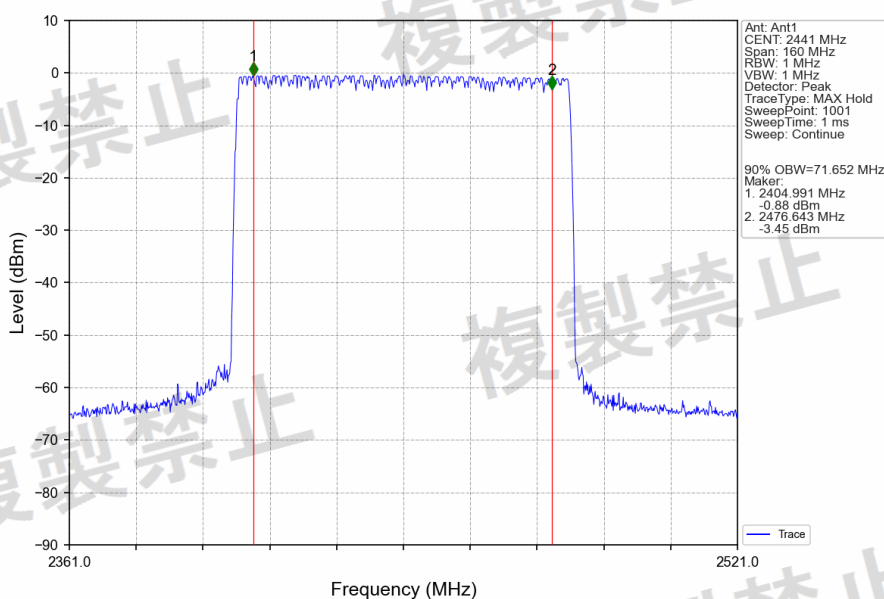
3.2.1 SPBW



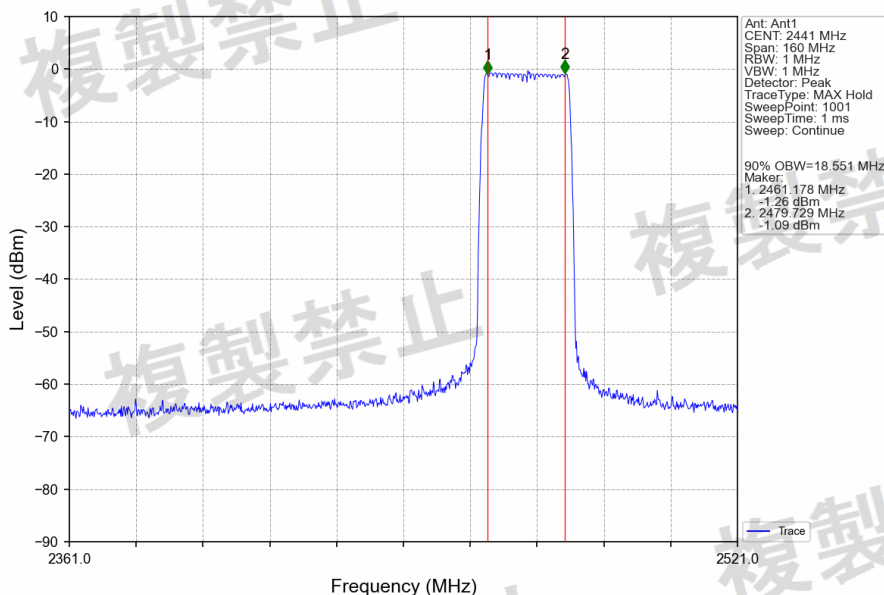
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



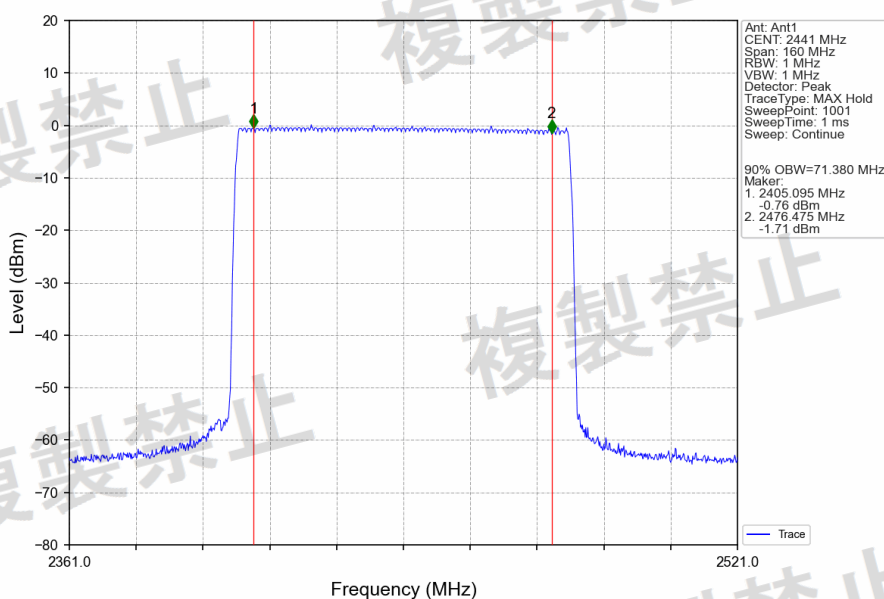
Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV



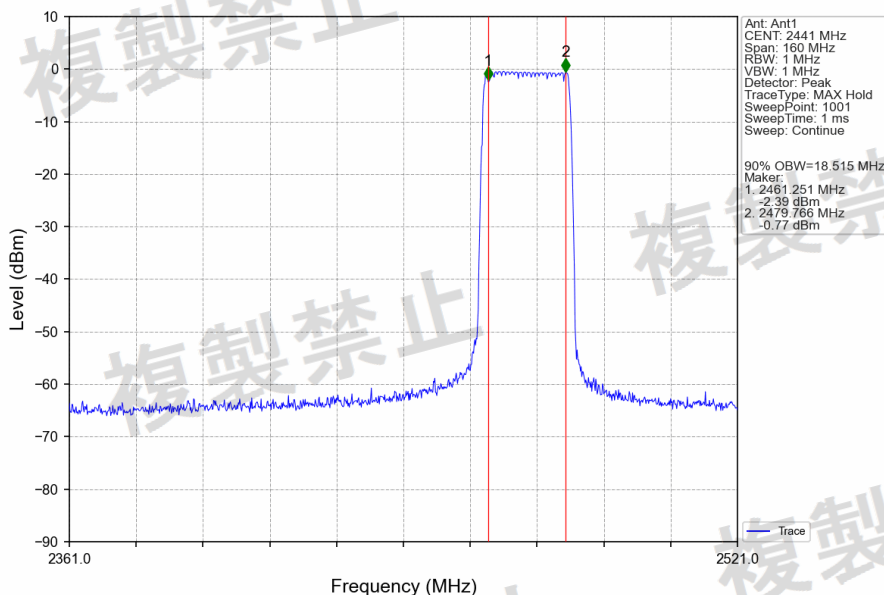
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8DPSK_3DH5_HOPP_Ant1_NTNV

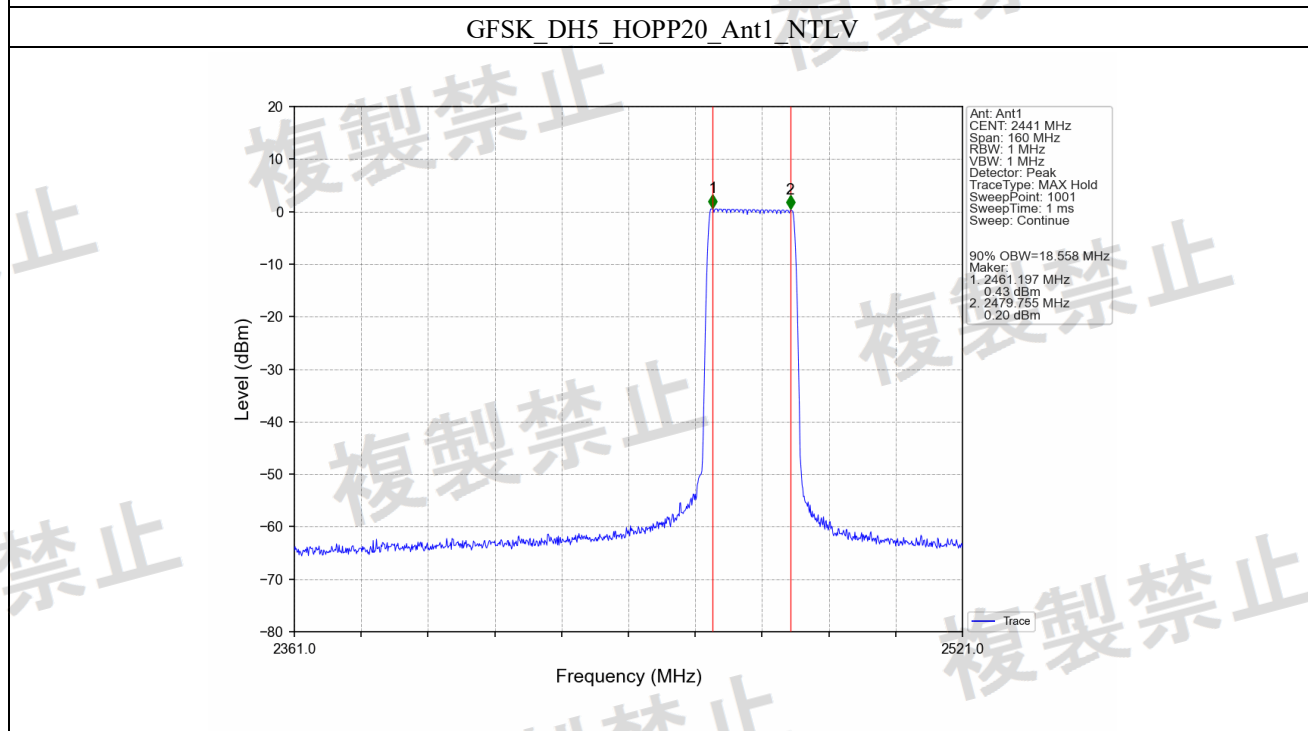
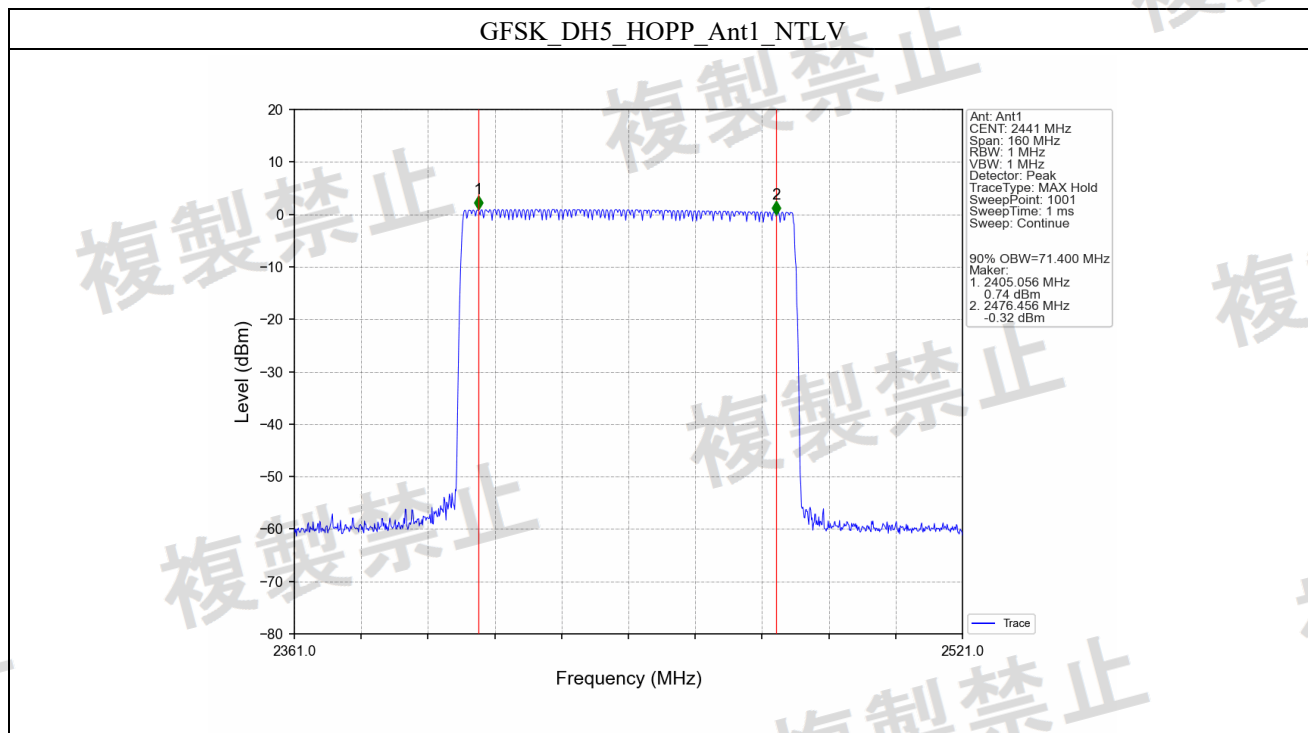


8DPSK_3DH5_HOPP20_Ant1_NTNV



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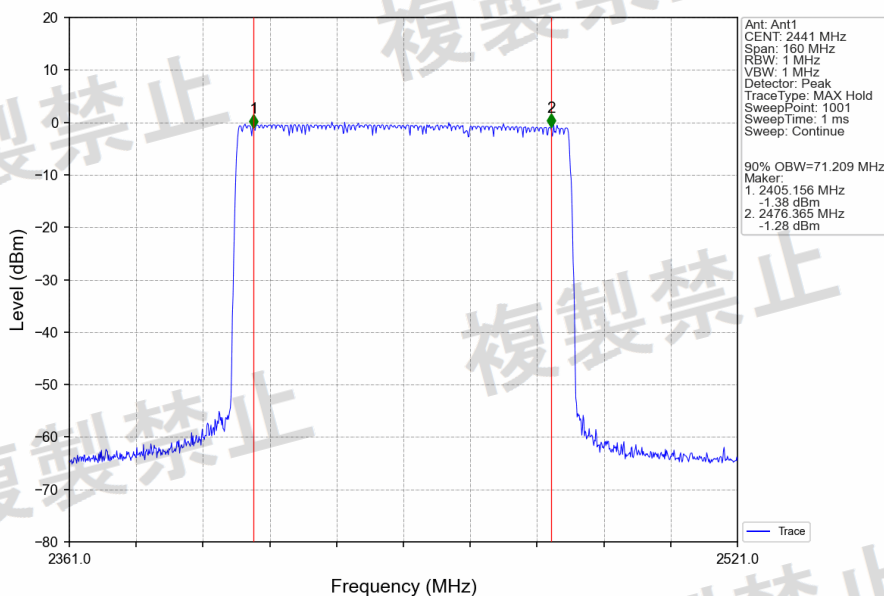
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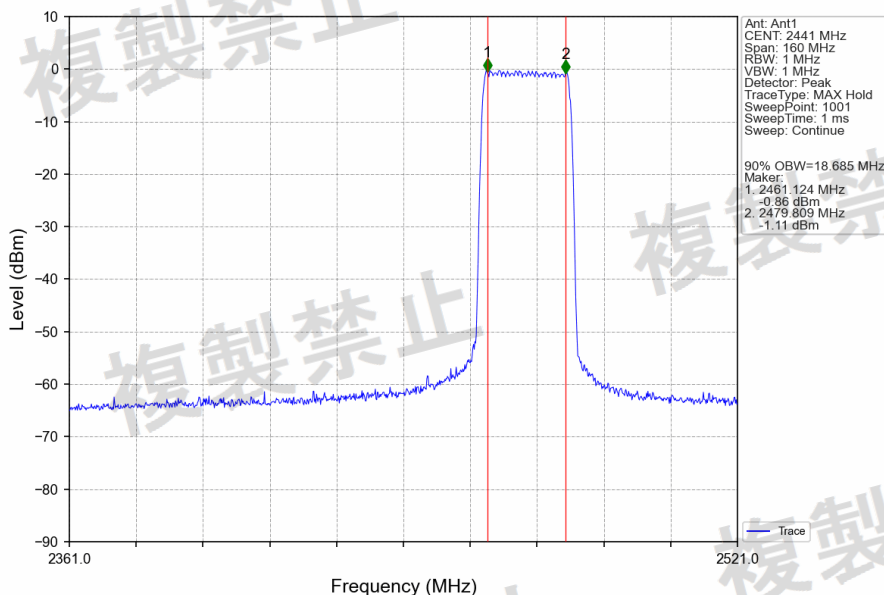
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



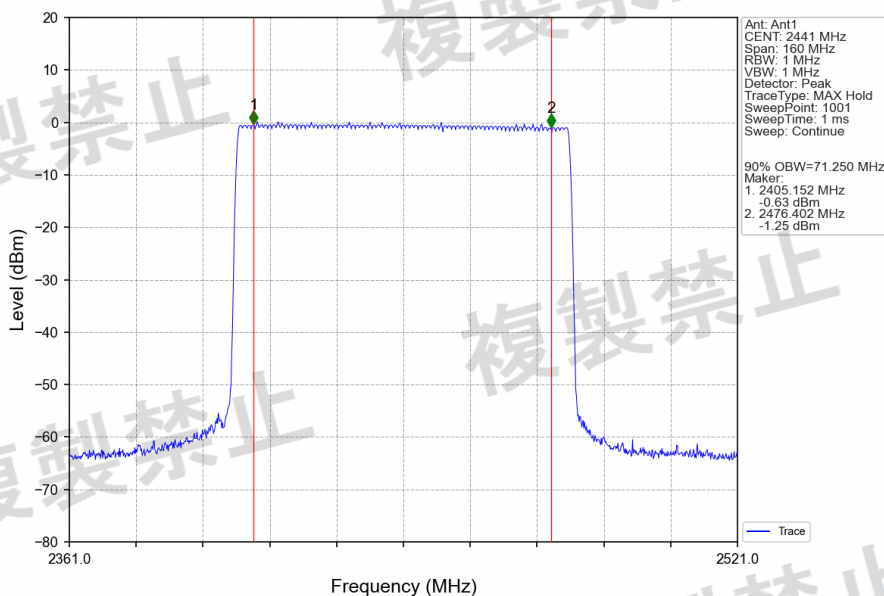
Pi/4DQPSK_2DH5_HOPP20_Ant1_NTLV



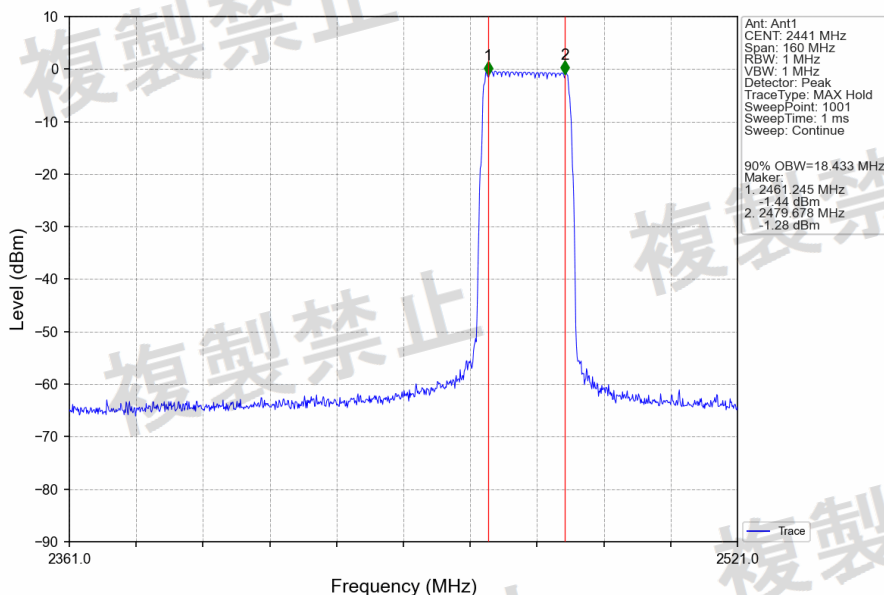
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8DPSK_3DH5_HOPP_Ant1_NTLV



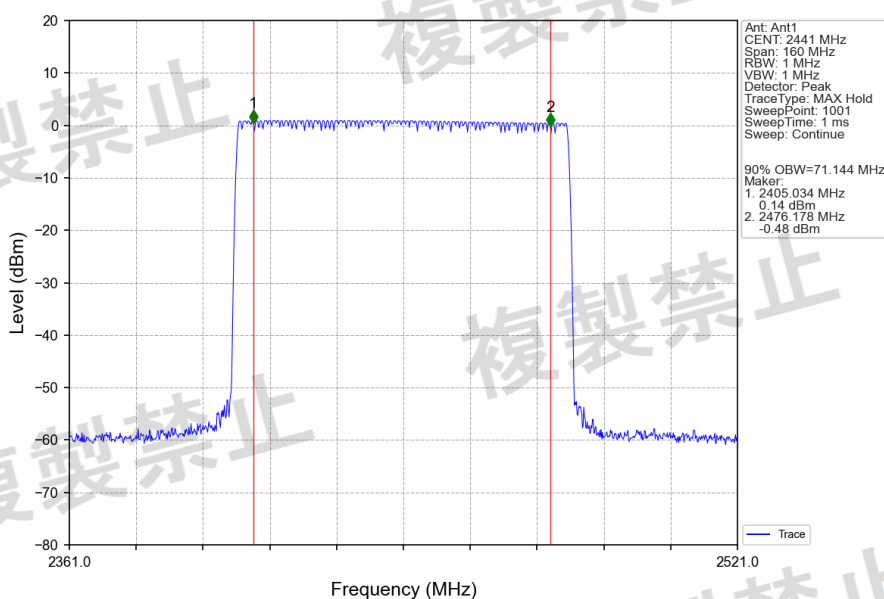
8DPSK_3DH5_HOPP20_Ant1_NTLV



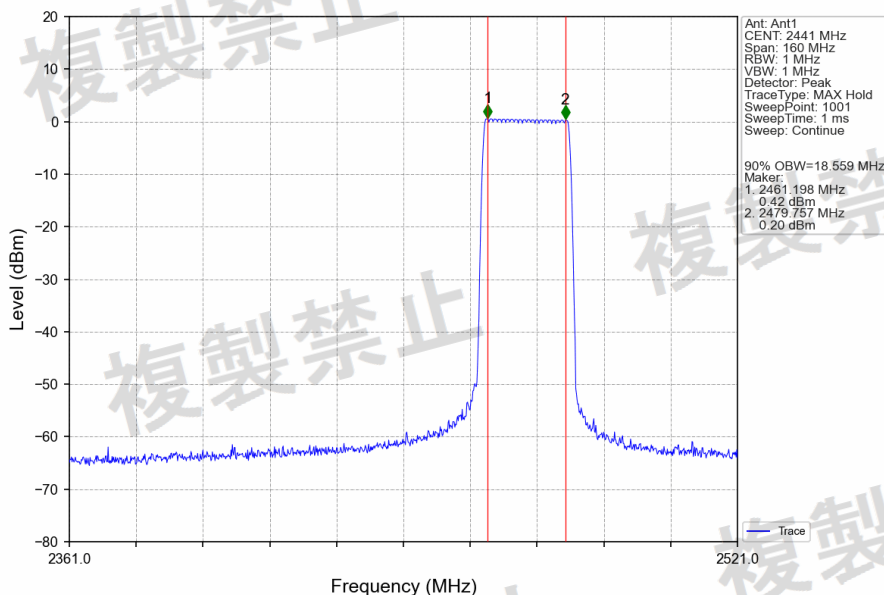
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GFSK_DH5_HOPP_Ant1_NTHV



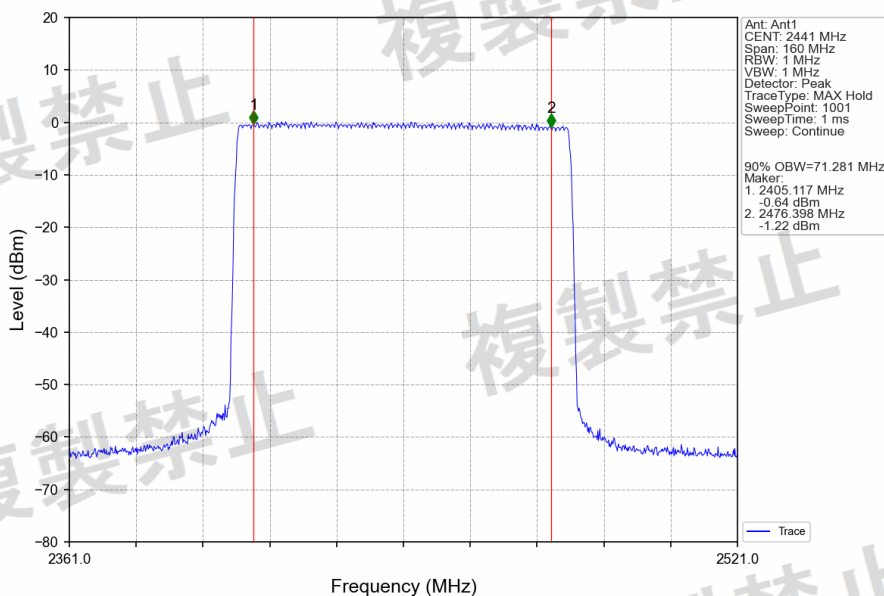
GFSK_DH5_HOPP20_Ant1_NTHV



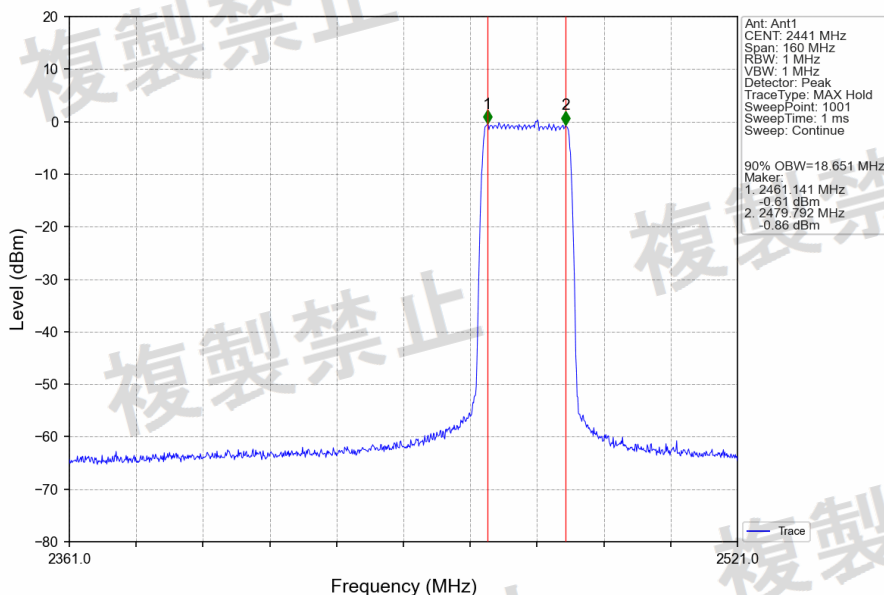
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV



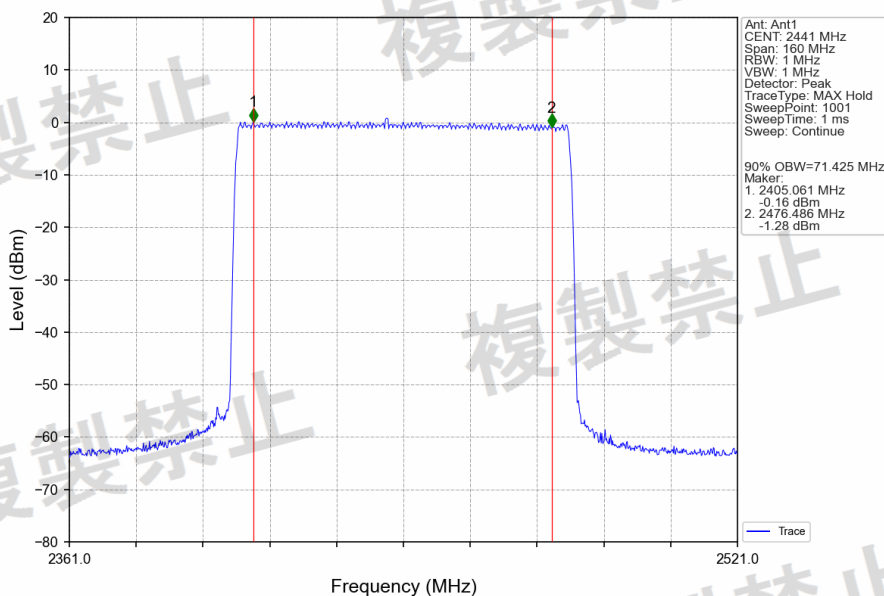
Pi/4DQPSK_2DH5_HOPP20_Ant1_NTHV



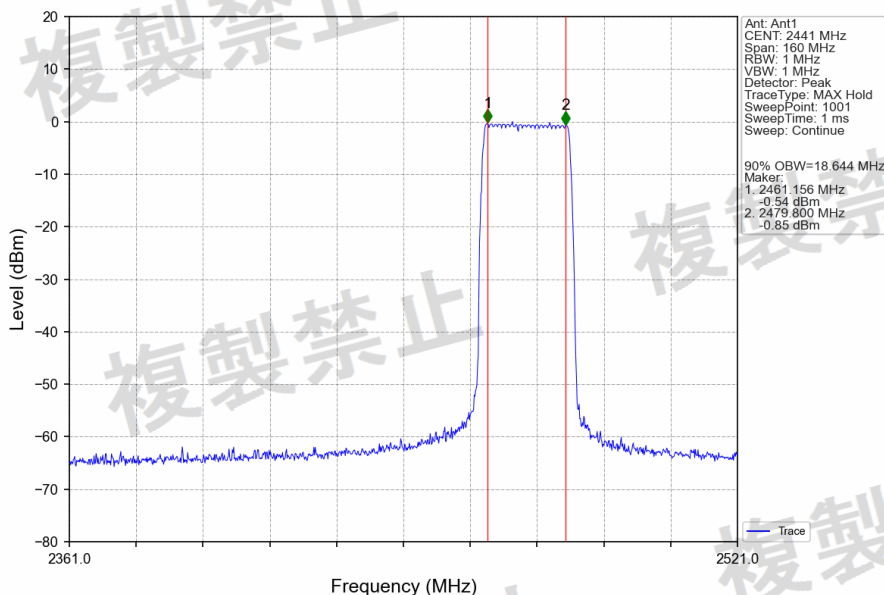
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8DPSK_3DH5_HOPP_Ant1_NTHV



8DPSK_3DH5_HOPP20_Ant1_NTHV



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4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.017	≤ 3.00	0.066	-74.24	≤ 20	Pass
			HOPP20	DH5	1	0.066	≤ 3.00		0.00	≤ 20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.010	≤ 3.00		-84.85	≤ 20	Pass
			HOPP20	2DH5	1	0.039	≤ 3.00		-40.91	≤ 20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.010	≤ 3.00		-84.85	≤ 20	Pass
			HOPP20	3DH5	1	0.040	≤ 3.00		-39.39	≤ 20	Pass
NTLV	GFSK	SISO	HOPP	DH5	1	0.017	≤ 3.00		-74.24	≤ 20	Pass
			HOPP20	DH5	1	0.065	≤ 3.00		-1.52	≤ 20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.006	≤ 3.00		-90.91	≤ 20	Pass
			HOPP20	2DH5	1	0.024	≤ 3.00		-63.64	≤ 20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.011	≤ 3.00		-83.33	≤ 20	Pass
			HOPP20	3DH5	1	0.044	≤ 3.00		-33.33	≤ 20	Pass
NTHV	GFSK	SISO	HOPP	DH5	1	0.017	≤ 3.00		-74.24	≤ 20	Pass
			HOPP20	DH5	1	0.065	≤ 3.00		-1.52	≤ 20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.007	≤ 3.00		-89.39	≤ 20	Pass
			HOPP20	2DH5	1	0.026	≤ 3.00		-60.61	≤ 20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.009	≤ 3.00		-86.36	≤ 20	Pass
			HOPP20	3DH5	1	0.034	≤ 3.00		-48.48	≤ 20	Pass

4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	EIRP (dBm)		Verdict
							Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	-0.68	-18.37	≤ 6.91	Pass
			HOPP20	DH5	1	-0.68	-12.52	≤ 6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-0.68	-20.65	≤ 6.91	Pass
			HOPP20	2DH5	1	-0.68	-14.78	≤ 6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	-0.68	-20.49	≤ 6.91	Pass
			HOPP20	3DH5	1	-0.68	-14.63	≤ 6.91	Pass
NTLV	GFSK	SISO	HOPP	DH5	1	-0.68	-18.43	≤ 6.91	Pass
			HOPP20	DH5	1	-0.68	-12.58	≤ 6.91	Pass

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	Pi/4DQPSK	SISO	HOPP	2DH5	1	-0.68	-22.64	<=6.91	Pass
			HOPP20	2DH5	1	-0.68	-16.83	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	-0.68	-20.10	<=6.91	Pass
			HOPP20	3DH5	1	-0.68	-14.23	<=6.91	Pass
NTHV	GFSK	SISO	HOPP	DH5	1	-0.68	-18.42	<=6.91	Pass
			HOPP20	DH5	1	-0.68	-12.58	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-0.68	-22.34	<=6.91	Pass
			HOPP20	2DH5	1	-0.68	-16.52	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	-0.68	-21.25	<=6.91	Pass
			HOPP20	3DH5	1	-0.68	-15.42	<=6.91	Pass



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Guangzhou Branch Competency Laboratory

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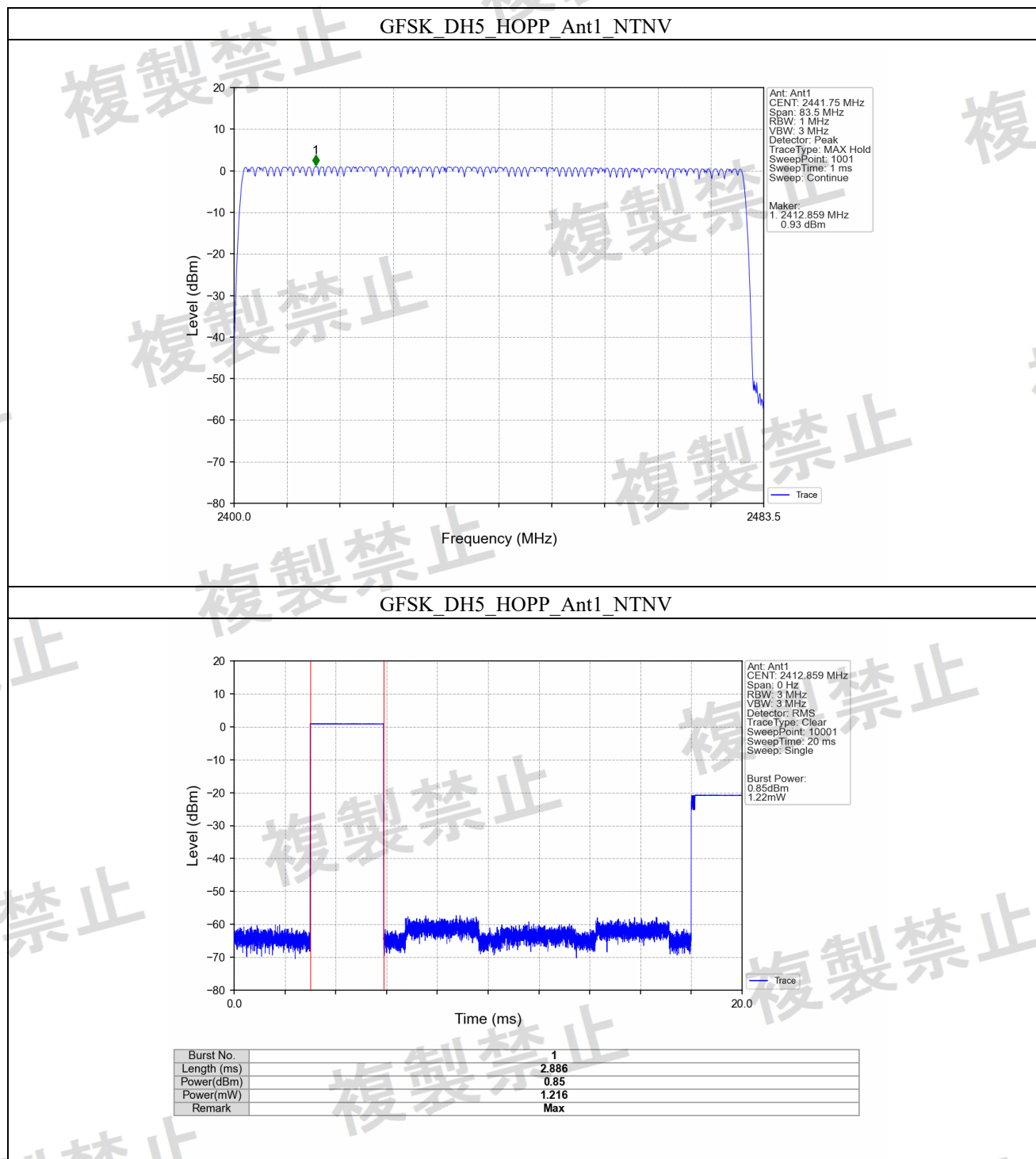
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

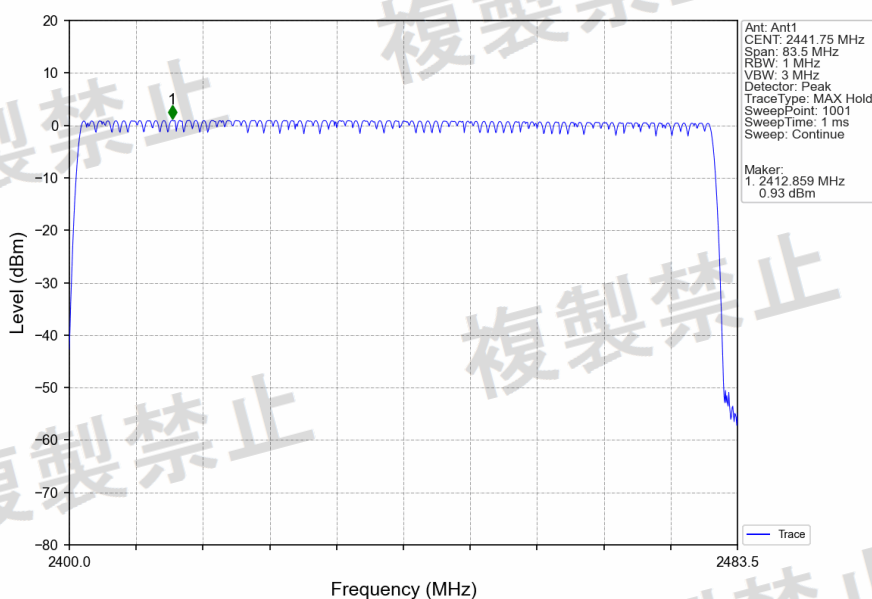
t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

4.2 Test Graph

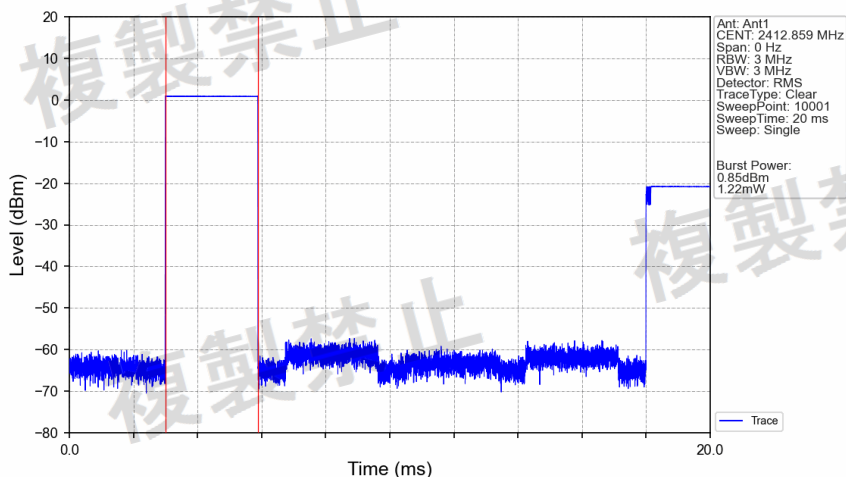
4.2.1 Power



GFSK_DH5_HOPP20_Ant1_NTNV



GFSK_DH5_HOPP20_Ant1_NTNV

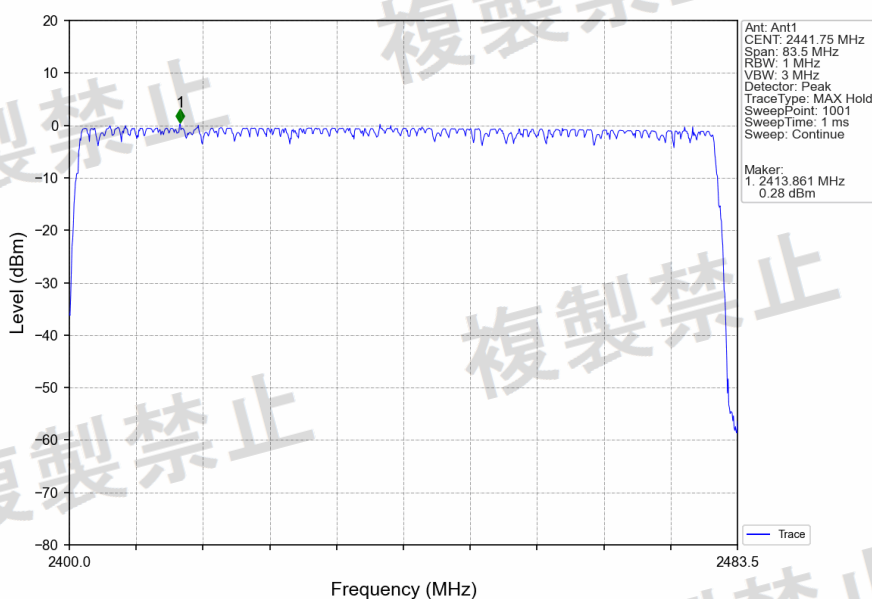


Burst No.	1
Length (ms)	2.886
Power(dBm)	0.85
Power(mW)	1.216
Remark	Max

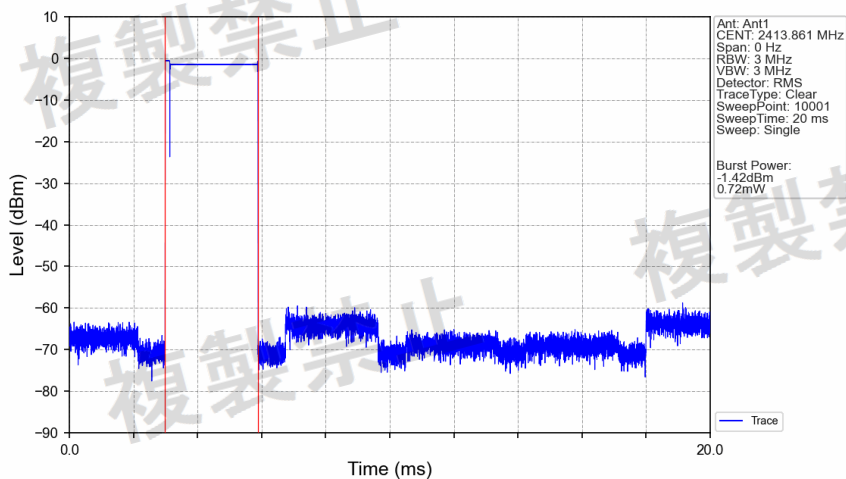
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

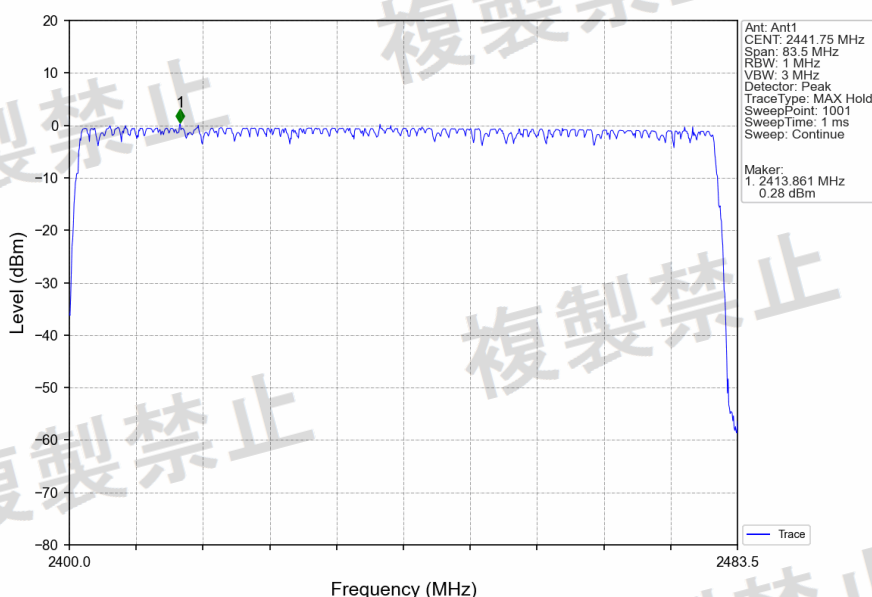


Burst No.	1
Length (ms)	2.900
Power(dBm)	-1.42
Power(mW)	0.721
Remark	Max

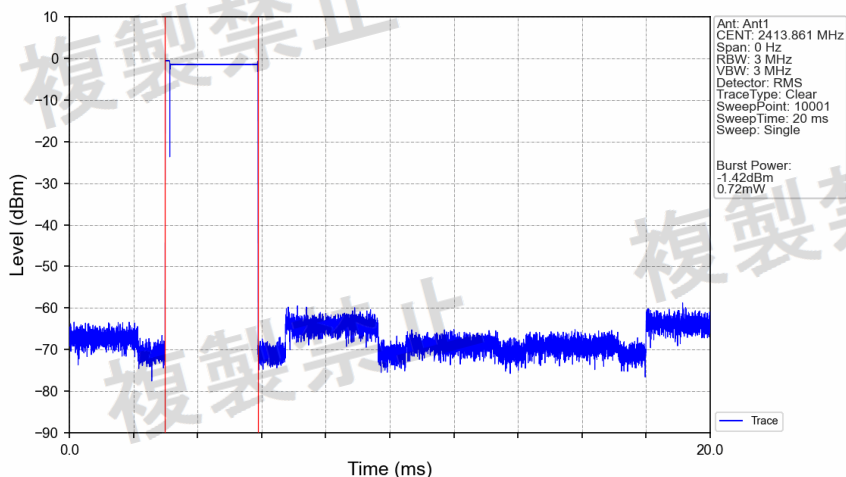
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV

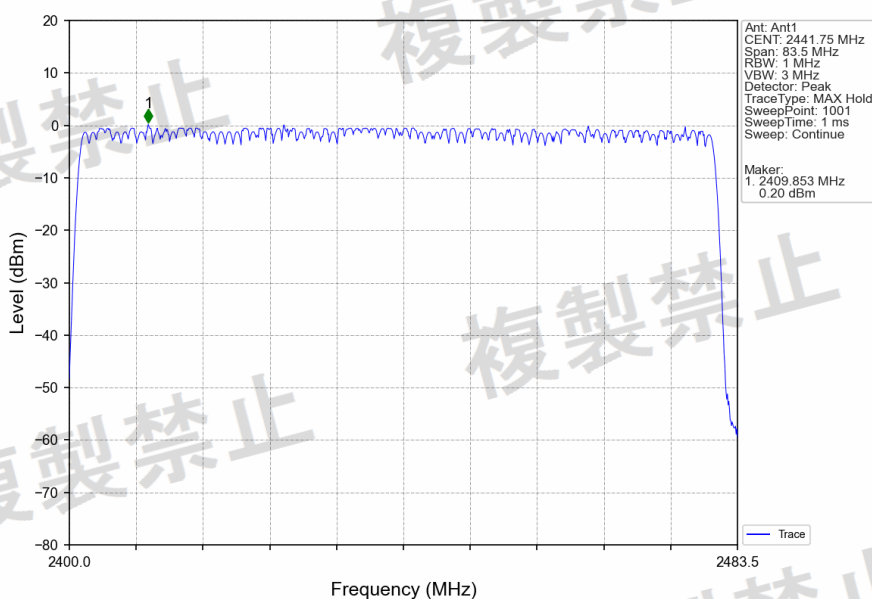


Burst No.	1
Length (ms)	2.900
Power(dBm)	-1.42
Power(mW)	0.721
Remark	Max

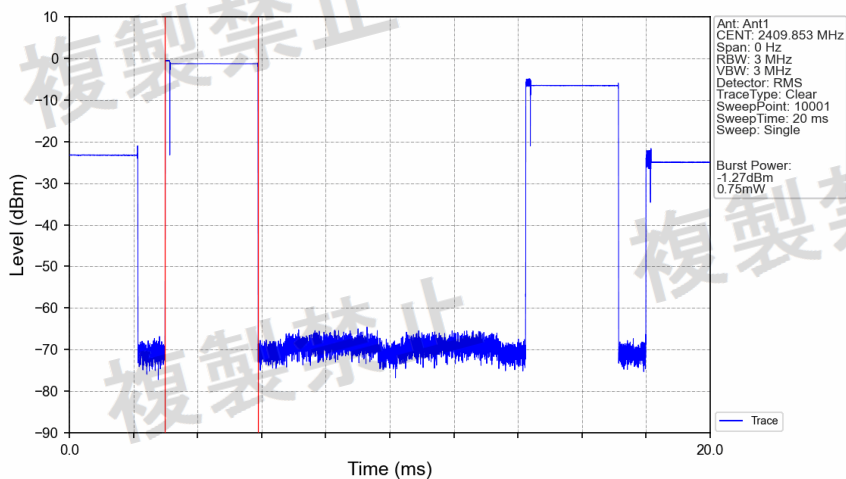
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

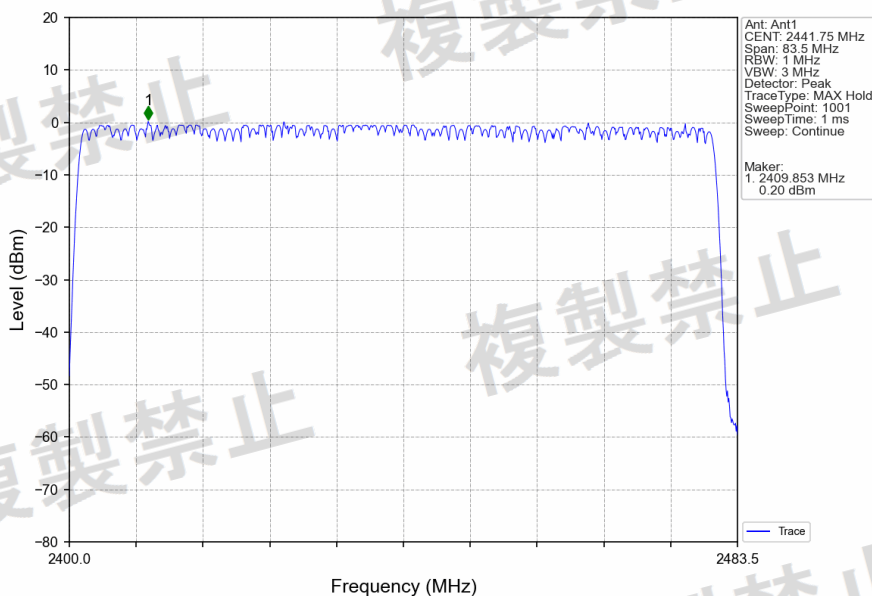


Burst No.	1	2
Length (ms)	2.902	2.898
Power(dBm)	-1.27	-6.49
Power(mW)	0.746	0.224
Remark	Max	/

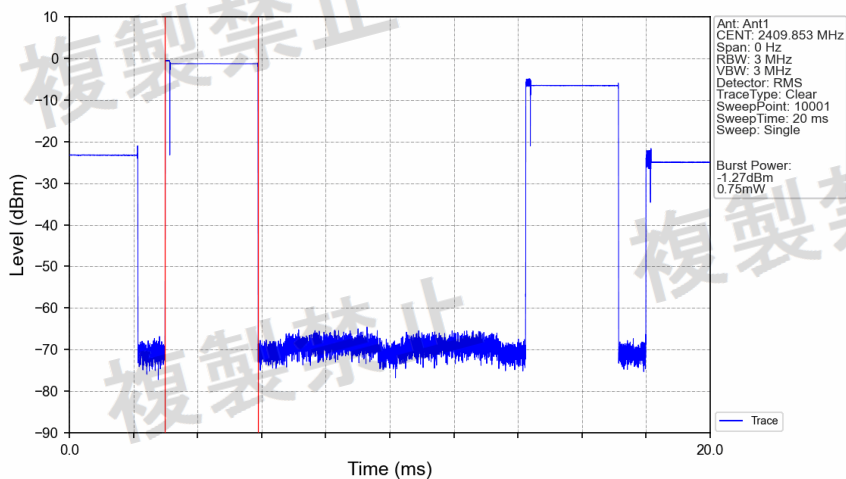
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8DPSK_3DH5_HOPP20_Ant1_NTNV



8DPSK_3DH5_HOPP20_Ant1_NTNV

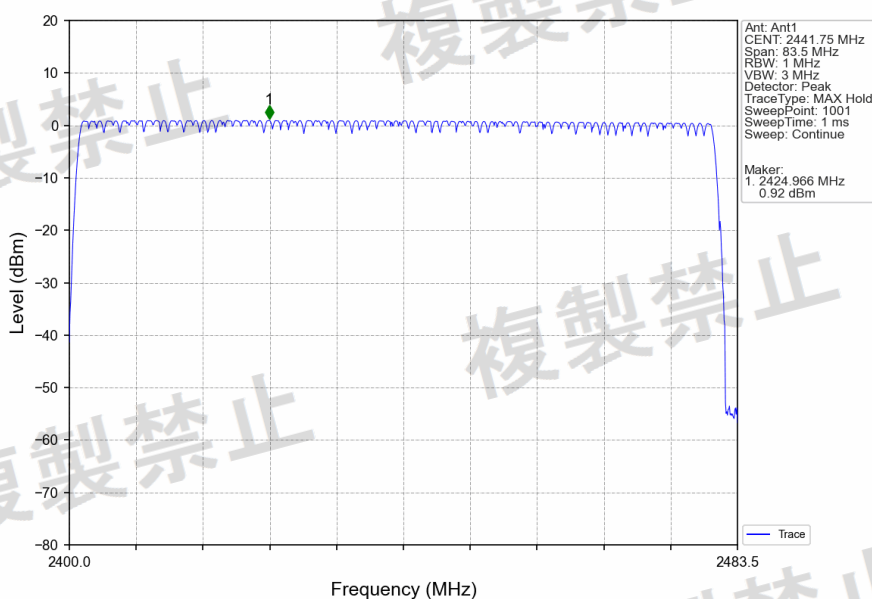


Burst No.	1	2
Length (ms)	2.902	2.898
Power(dBm)	-1.27	-6.49
Power(mW)	0.746	0.224
Remark	Max	/

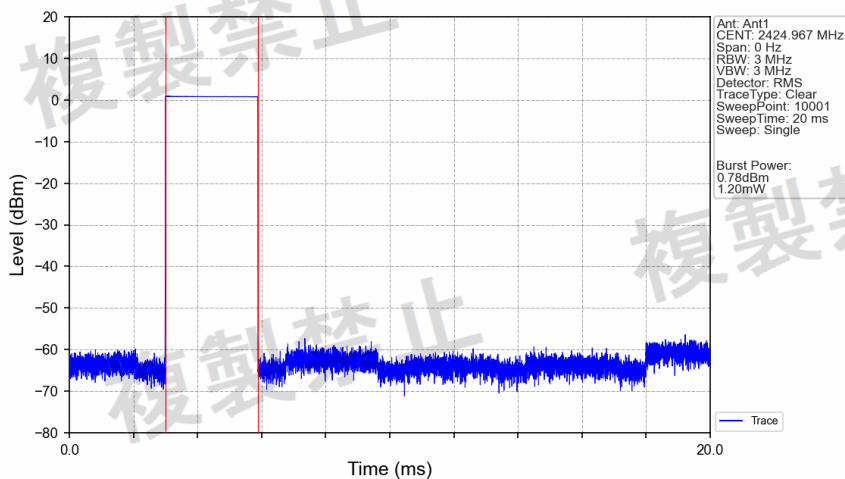
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GFSK_DH5_HOPP_Ant1_NTLV



GFSK_DH5_HOPP_Ant1_NTLV

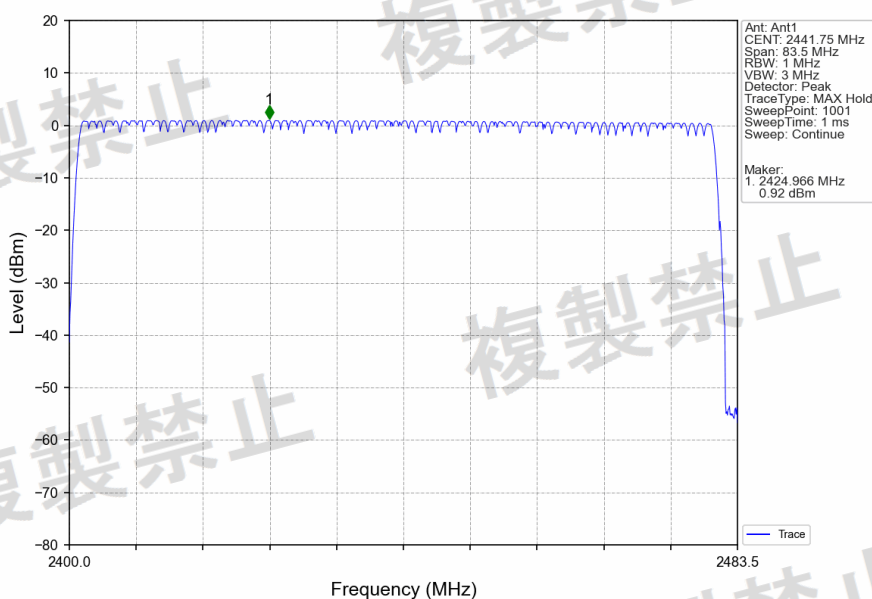


Burst No.	1
Length (ms)	2.892
Power(dBm)	0.78
Power(mW)	1.198
Remark	Max

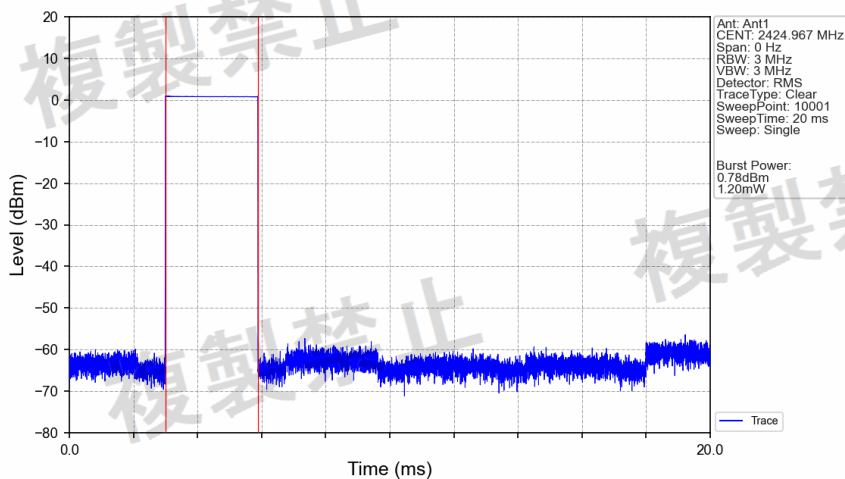
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GFSK_DH5_HOPP20_Ant1_NTLV



GFSK_DH5_HOPP20_Ant1_NTLV

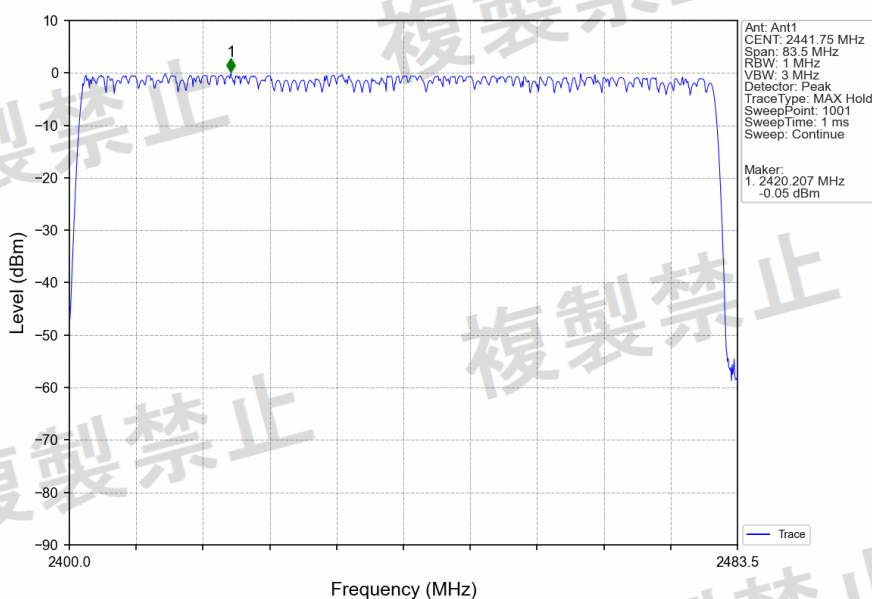


Burst No.	1
Length (ms)	2.892
Power(dBm)	0.78
Power(mW)	1.198
Remark	Max

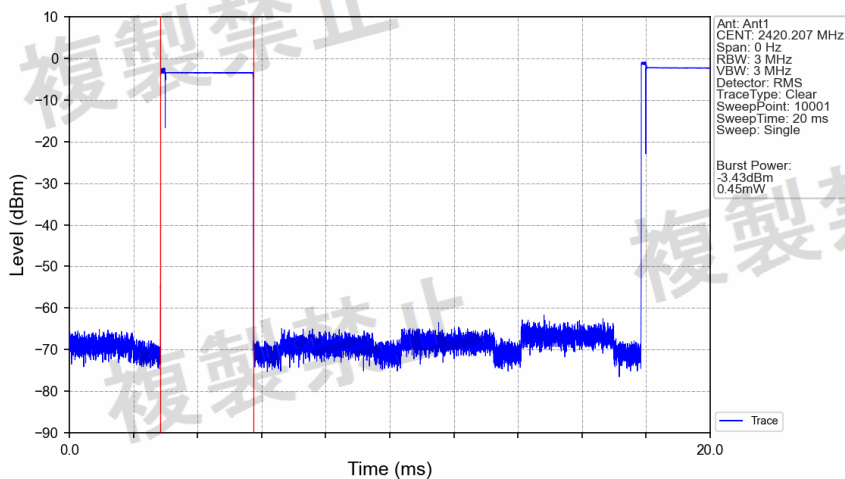
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV

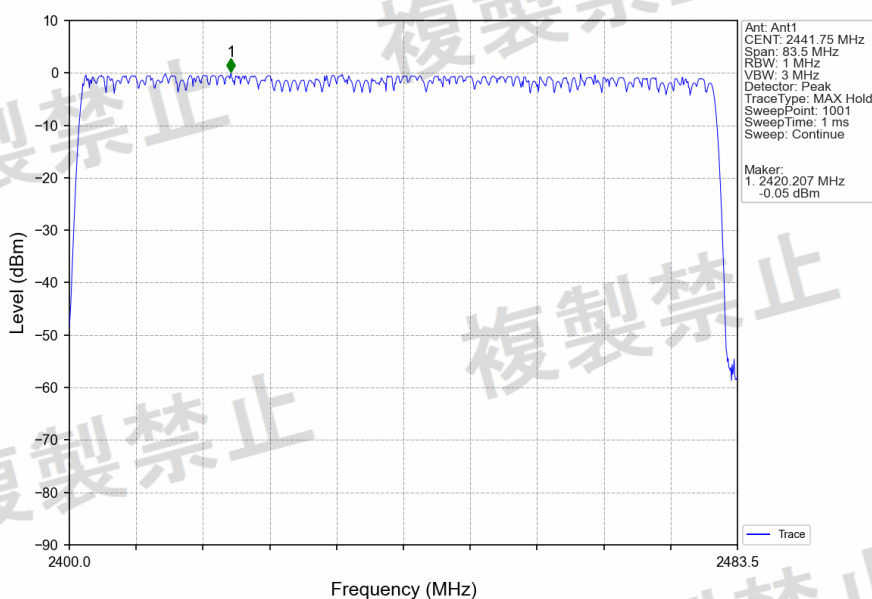


Burst No.	1
Length (ms)	2.896
Power(dBm)	-3.43
Power(mW)	0.454
Remark	Max

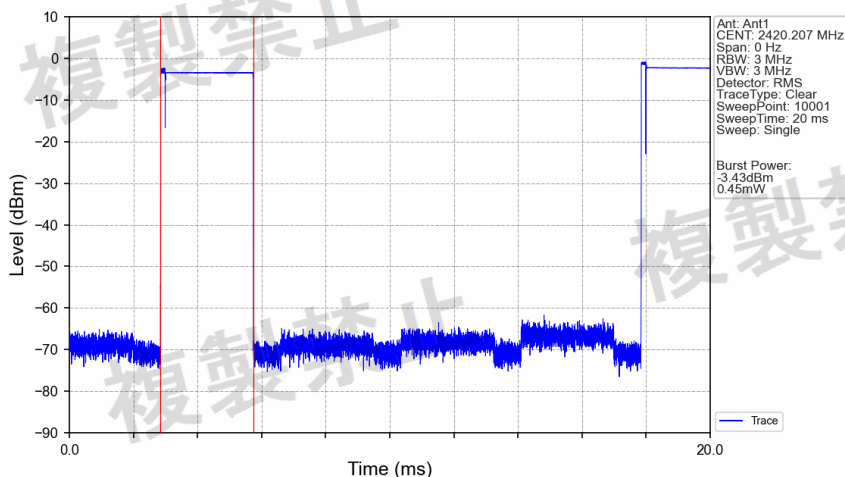
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTLV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTLV

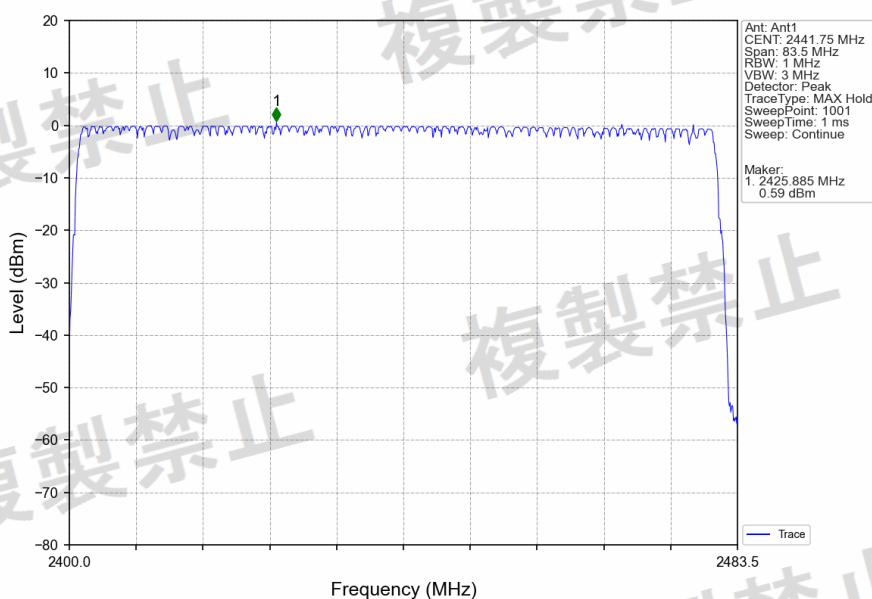


Burst No.	1
Length (ms)	2.896
Power(dBm)	-3.43
Power(mW)	0.454
Remark	Max

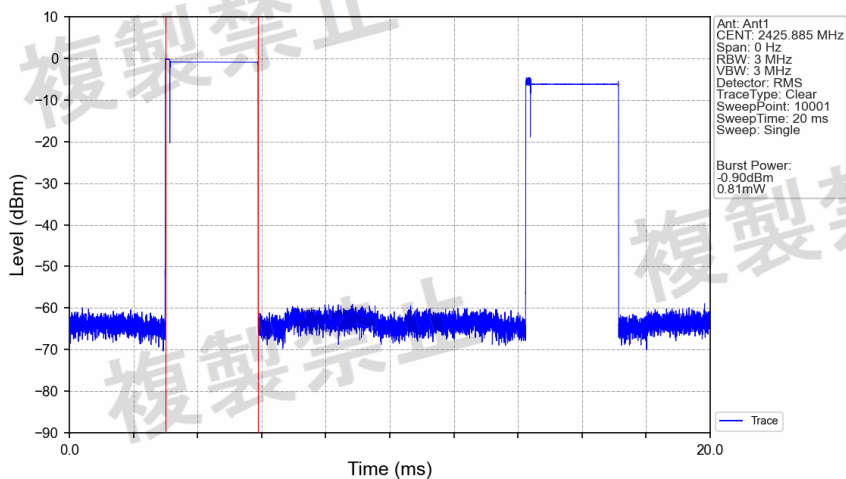
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8DPSK_3DH5_HOPP_Ant1_NTLV



8DPSK_3DH5_HOPP_Ant1_NTLV

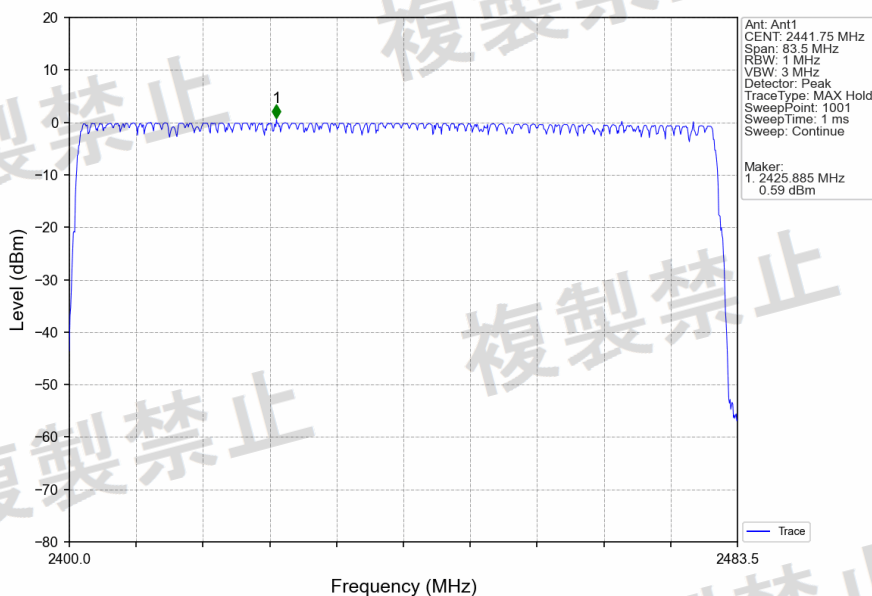


Burst No.	1	2
Length (ms)	2.898	2.896
Power(dBm)	-0.90	-6.20
Power(mW)	0.813	0.240
Remark	Max	/

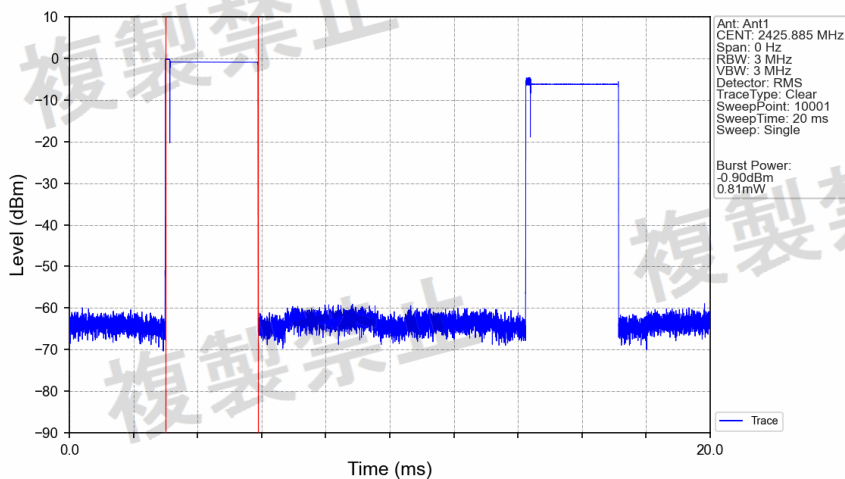
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8DPSK_3DH5_HOPP20_Ant1_NTLV



8DPSK_3DH5_HOPP20_Ant1_NTLV

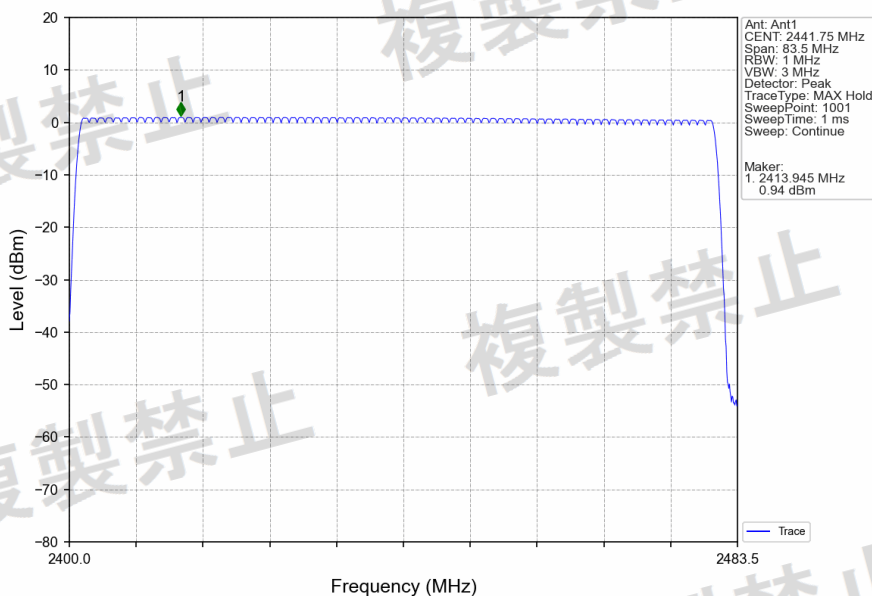


Burst No.	1	2
Length (ms)	2.898	2.896
Power(dBm)	-0.90	-6.20
Power(mW)	0.813	0.240
Remark	Max	/

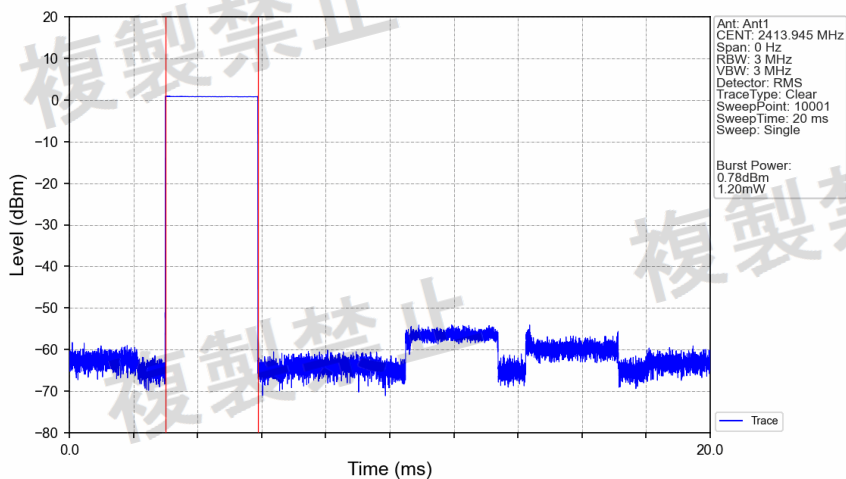
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GFSK_DH5_HOPP_Ant1_NTHV



GFSK_DH5_HOPP_Ant1_NTHV

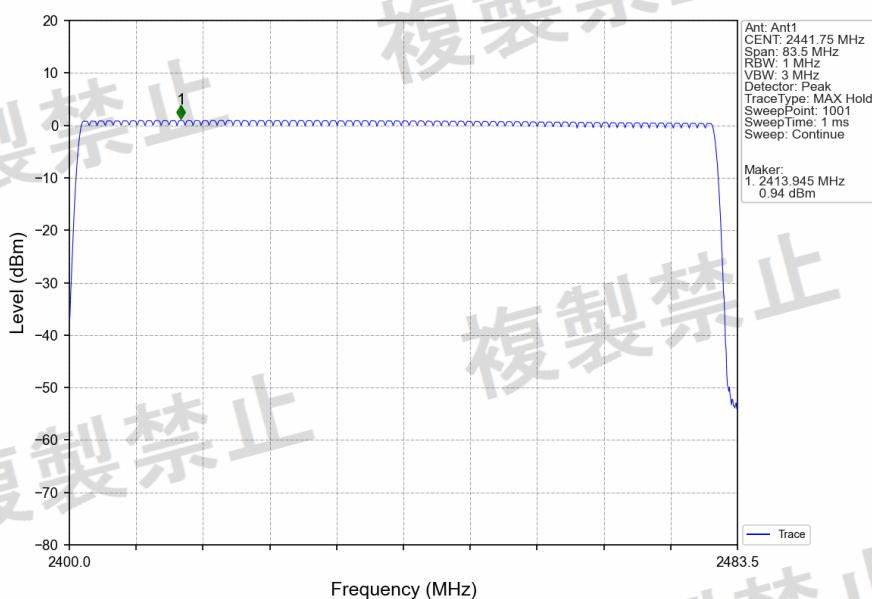


Burst No.	1
Length (ms)	2.890
Power(dBm)	0.78
Power(mW)	1.198
Remark	Max

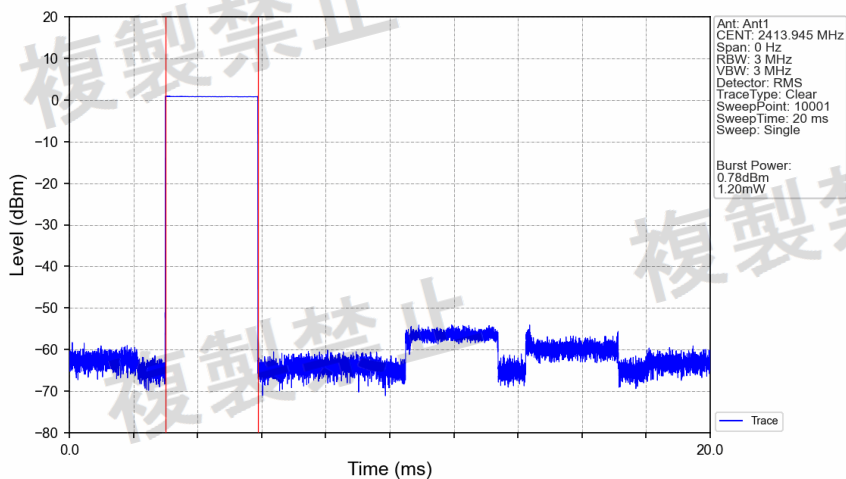
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GFSK_DH5_HOPP20_Ant1_NTHV



GFSK_DH5_HOPP20_Ant1_NTHV

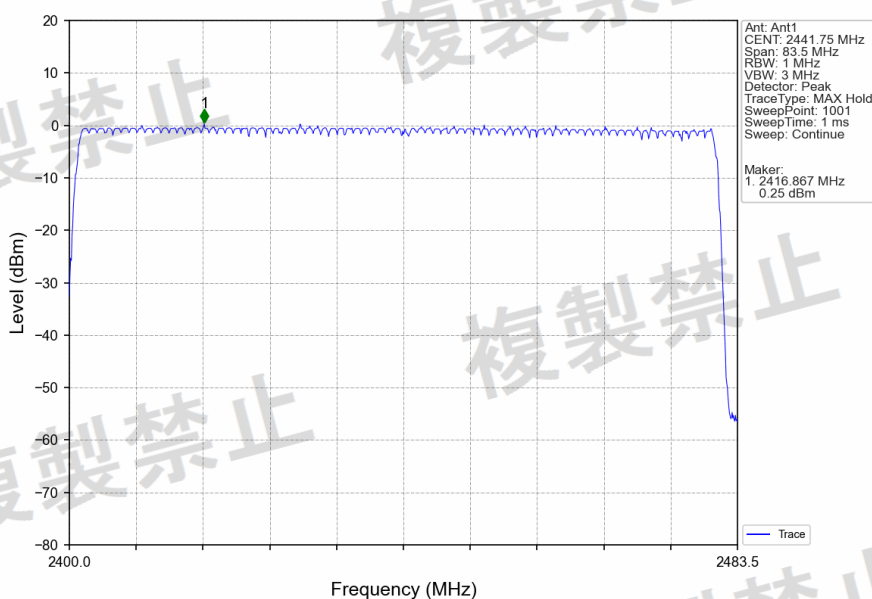


Burst No.	1
Length (ms)	2.890
Power(dBm)	0.78
Power(mW)	1.198
Remark	Max

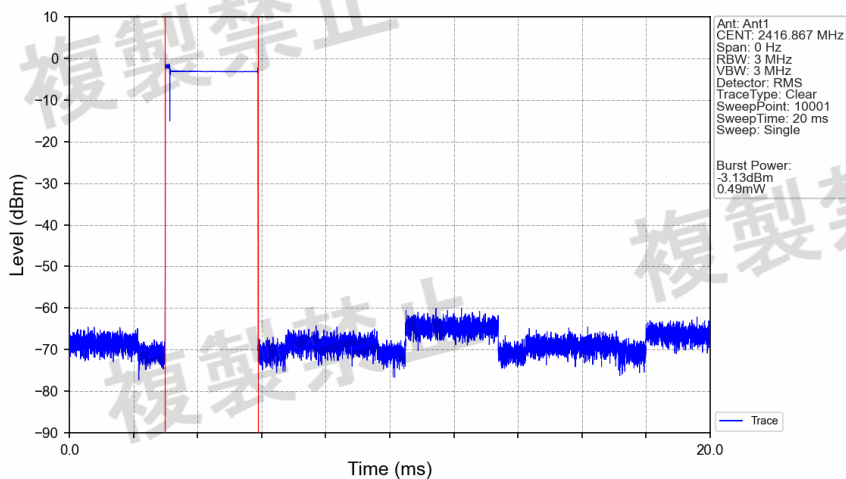
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV

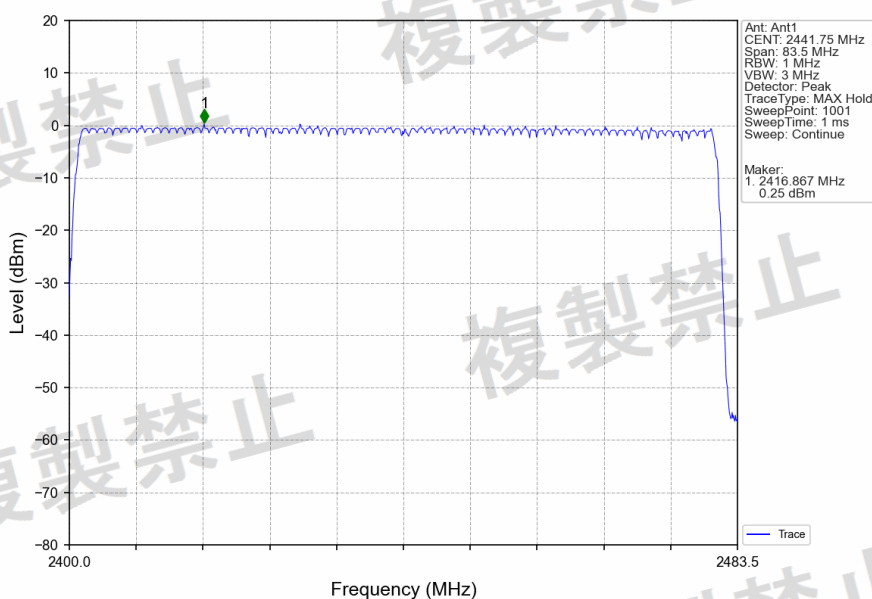


Burst No.	1
Length (ms)	2.900
Power (dBm)	-3.13
Power (mW)	0.486
Remark	Max

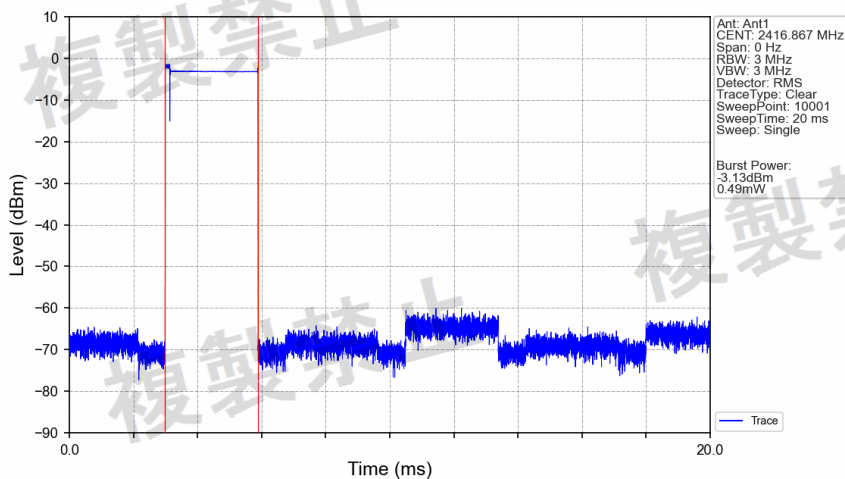
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTHV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTHV

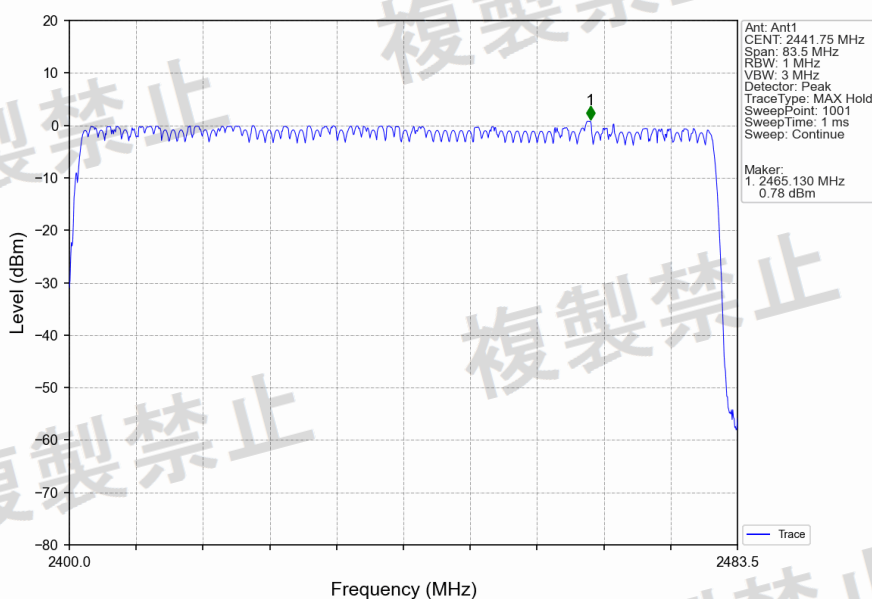


Burst No.	1
Length (ms)	2.900
Power(dBm)	-3.13
Power(mW)	0.486
Remark	Max

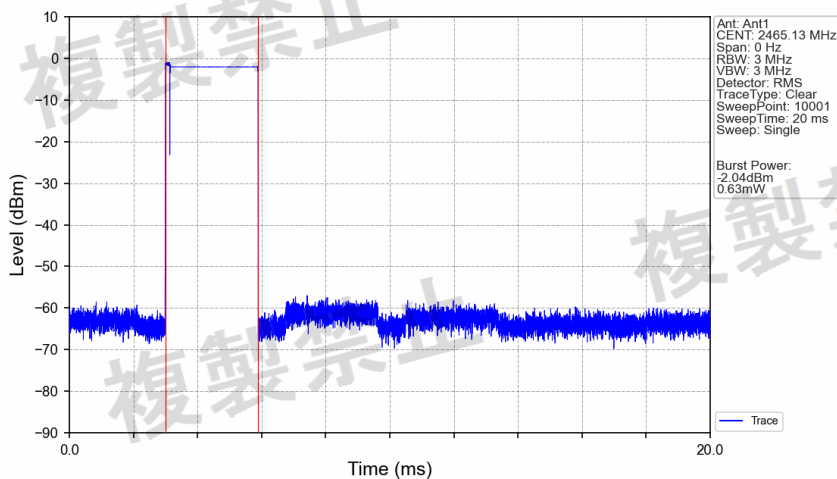
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8DPSK_3DH5_HOPP_Ant1_NTHV



8DPSK_3DH5_HOPP_Ant1_NTHV

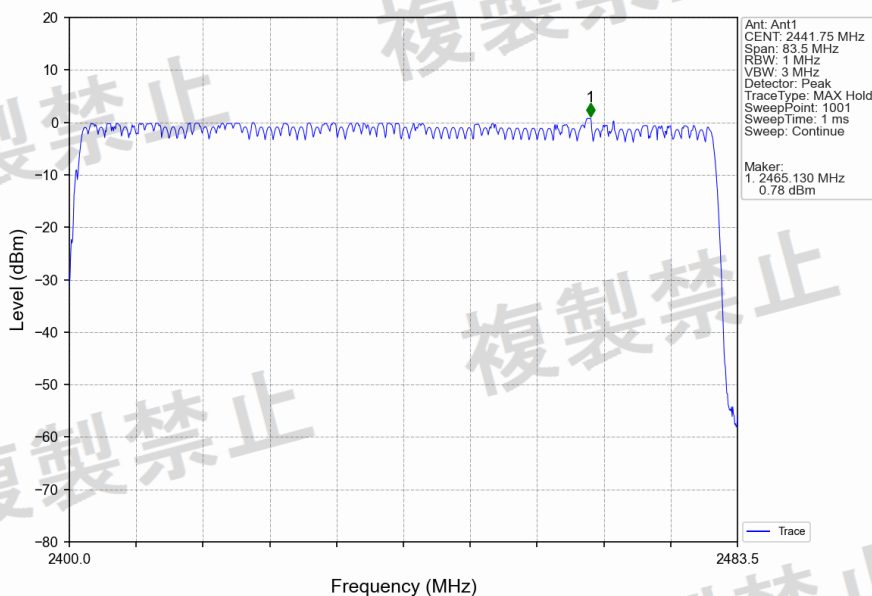


Burst No.	1
Length (ms)	2.898
Power(dBm)	-2.04
Power(mW)	0.626
Remark	Max

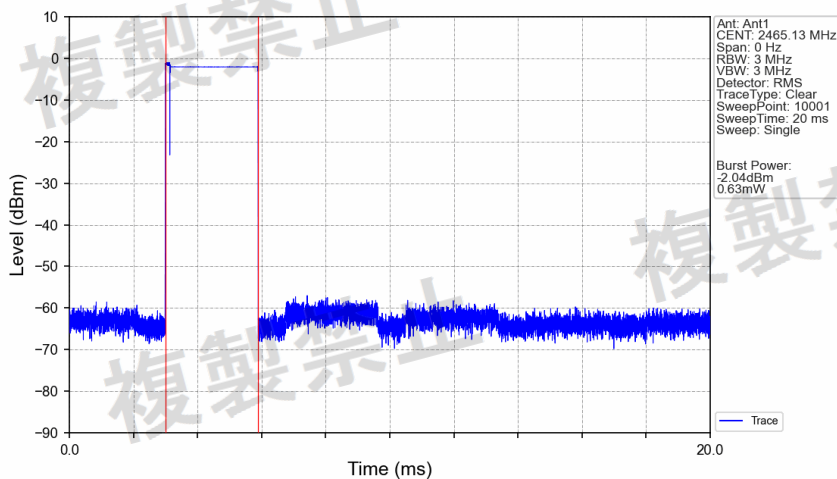
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8DPSK_3DH5_HOPP20_Ant1_NTHV



8DPSK_3DH5_HOPP20_Ant1_NTHV



Burst No.	1
Length (ms)	2.898
Power(dBm)	-2.04
Power(mW)	0.626
Remark	Max

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5. Dwell Time

5.1 Test Result

5.1.1 Ant1

Ant1											
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spreading Rate	T _{on} (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	71.382	2.885	3.729	79	279.624	<=400	Pass
				DH3	71.382	2.884	3.728	79	279.602	<=400	Pass
				DH5	71.382	2.885	3.729	79	279.624	<=400	Pass
			2480	DH1	71.382	2.886	3.730	79	279.646	<=400	Pass
				DH3	71.382	2.886	3.730	79	279.646	<=400	Pass
				DH5	71.382	2.885	3.729	79	279.624	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.652	2.890	3.735	79	280.717	<=400	Pass
				2DH3	71.652	2.889	3.734	79	280.695	<=400	Pass
				2DH5	71.652	2.889	3.735	79	280.620	<=400	Pass
			2480	2DH1	71.652	2.889	3.734	79	280.695	<=400	Pass
				2DH3	71.652	2.888	3.734	79	280.598	<=400	Pass
				2DH5	71.652	2.888	3.734	79	280.598	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.380	2.881	3.736	79	278.706	<=400	Pass
				3DH3	71.380	2.881	3.736	79	278.706	<=400	Pass
				3DH5	71.380	2.882	3.736	79	278.802	<=400	Pass
			2480	3DH1	71.380	2.881	3.736	79	278.706	<=400	Pass
				3DH3	71.380	2.891	3.736	79	279.673	<=400	Pass
				3DH5	71.380	2.749	3.594	79	276.443	<=400	Pass
NTLV	GFSK	SISO	2402	DH1	71.400	2.885	3.729	79	279.695	<=400	Pass
				DH3	71.400	2.884	3.728	79	279.673	<=400	Pass
				DH5	71.400	2.885	3.729	79	279.695	<=400	Pass
			2480	DH1	71.400	2.886	3.730	79	279.717	<=400	Pass
				DH3	71.400	2.885	3.729	79	279.695	<=400	Pass
				DH5	71.400	2.885	3.729	79	279.695	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.209	2.889	3.735	79	278.885	<=400	Pass
				2DH3	71.209	2.889	3.734	79	278.959	<=400	Pass
				2DH5	71.209	2.889	3.735	79	278.885	<=400	Pass
			2480	2DH1	71.209	2.889	3.734	79	278.959	<=400	Pass
				2DH3	71.209	2.889	3.734	79	278.959	<=400	Pass
				2DH5	71.209	2.888	3.734	79	278.863	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.250	2.881	3.736	79	278.198	<=400	Pass

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NTHV	GFSK	SISO	2400	3DH3	71.250	2.881	3.736	79	278.198	<=400	Pass
				3DH5	71.250	2.881	3.736	79	278.198	<=400	Pass
				3DH1	71.250	2.882	3.736	79	278.295	<=400	Pass
				3DH3	71.250	2.881	3.736	79	278.198	<=400	Pass
				3DH5	71.250	2.882	3.736	79	278.295	<=400	Pass
	GFSK	SISO	2402	DH1	71.144	2.885	3.729	79	278.692	<=400	Pass
				DH3	71.144	2.885	3.729	79	278.692	<=400	Pass
				DH5	71.144	2.885	3.729	79	278.692	<=400	Pass
				DH1	71.144	2.885	3.729	79	278.692	<=400	Pass
				DH3	71.144	2.885	3.729	79	278.692	<=400	Pass
				DH5	71.144	2.885	3.729	79	278.692	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.281	2.889	3.734	79	279.241	<=400	Pass
				2DH3	71.281	2.888	3.734	79	279.145	<=400	Pass
				2DH5	71.281	2.888	3.734	79	279.145	<=400	Pass
				2DH1	71.281	2.889	3.734	79	279.241	<=400	Pass
				2DH3	71.281	2.889	3.734	79	279.241	<=400	Pass
				2DH5	71.281	2.889	3.734	79	279.241	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.425	2.882	3.736	79	278.978	<=400	Pass
				3DH3	71.425	2.882	3.736	79	278.978	<=400	Pass
				3DH5	71.425	2.882	3.736	79	278.978	<=400	Pass
				3DH1	71.425	2.891	3.736	79	279.849	<=400	Pass
				3DH3	71.425	2.890	3.736	79	279.753	<=400	Pass
				3DH5	71.425	2.881	3.736	79	278.881	<=400	Pass

5.1.2 Ant1_HOPP20

Ant1_HOPP20											
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	18.566	2.885	3.729	20	287.278	<=400	Pass
				DH3	18.566	2.884	3.728	20	287.255	<=400	Pass
				DH5	18.566	2.885	3.729	20	287.278	<=400	Pass
			2480	DH1	18.566	2.886	3.730	20	287.300	<=400	Pass
				DH3	18.566	2.886	3.730	20	287.300	<=400	Pass
				DH5	18.566	2.885	3.729	20	287.278	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.551	2.890	3.735	20	287.081	<=400	Pass
				2DH3	18.551	2.889	3.734	20	287.059	<=400	Pass
				2DH5	18.551	2.889	3.735	20	286.982	<=400	Pass
			2480	2DH1	18.551	2.889	3.734	20	287.059	<=400	Pass
				2DH3	18.551	2.888	3.734	20	286.959	<=400	Pass
				2DH5	18.551	2.888	3.734	20	286.959	<=400	Pass

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	8DPSK	SISO	2402	3DH1	18.515	2.881	3.736	20	285.555	<=400	Pass
				3DH3	18.515	2.881	3.736	20	285.555	<=400	Pass
				3DH5	18.515	2.882	3.736	20	285.654	<=400	Pass
			2480	3DH1	18.515	2.881	3.736	20	285.555	<=400	Pass
				3DH3	18.515	2.891	3.736	20	286.546	<=400	Pass
				3DH5	18.515	2.749	3.594	20	283.237	<=400	Pass
NTLV	GFSK	SISO	2402	DH1	18.558	2.885	3.729	20	287.154	<=400	Pass
				DH3	18.558	2.884	3.728	20	287.131	<=400	Pass
				DH5	18.558	2.885	3.729	20	287.154	<=400	Pass
			2480	DH1	18.558	2.886	3.730	20	287.176	<=400	Pass
				DH3	18.558	2.885	3.729	20	287.154	<=400	Pass
				DH5	18.558	2.885	3.729	20	287.154	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.685	2.889	3.735	20	289.055	<=400	Pass
				2DH3	18.685	2.889	3.734	20	289.132	<=400	Pass
				2DH5	18.685	2.889	3.735	20	289.055	<=400	Pass
			2480	2DH1	18.685	2.889	3.734	20	289.132	<=400	Pass
				2DH3	18.685	2.889	3.734	20	289.132	<=400	Pass
				2DH5	18.685	2.888	3.734	20	289.032	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.433	2.881	3.736	20	284.291	<=400	Pass
				3DH3	18.433	2.881	3.736	20	284.291	<=400	Pass
				3DH5	18.433	2.881	3.736	20	284.291	<=400	Pass
			2480	3DH1	18.433	2.882	3.736	20	284.389	<=400	Pass
				3DH3	18.433	2.881	3.736	20	284.291	<=400	Pass
				3DH5	18.433	2.882	3.736	20	284.389	<=400	Pass
NTHV	GFSK	SISO	2402	DH1	18.559	2.885	3.729	20	287.169	<=400	Pass
				DH3	18.559	2.885	3.729	20	287.169	<=400	Pass
				DH5	18.559	2.885	3.729	20	287.169	<=400	Pass
			2480	DH1	18.559	2.885	3.729	20	287.169	<=400	Pass
				DH3	18.559	2.885	3.729	20	287.169	<=400	Pass
				DH5	18.559	2.885	3.729	20	287.169	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.651	2.889	3.734	20	288.606	<=400	Pass
				2DH3	18.651	2.888	3.734	20	288.506	<=400	Pass
				2DH5	18.651	2.888	3.734	20	288.506	<=400	Pass
			2480	2DH1	18.651	2.889	3.734	20	288.606	<=400	Pass
				2DH3	18.651	2.889	3.734	20	288.606	<=400	Pass
				2DH5	18.651	2.889	3.734	20	288.606	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.644	2.882	3.736	20	287.645	<=400	Pass
				3DH3	18.644	2.882	3.736	20	287.645	<=400	Pass
				3DH5	18.644	2.882	3.736	20	287.645	<=400	Pass
			2480	3DH1	18.644	2.891	3.736	20	288.543	<=400	Pass
				3DH3	18.644	2.890	3.736	20	288.443	<=400	Pass

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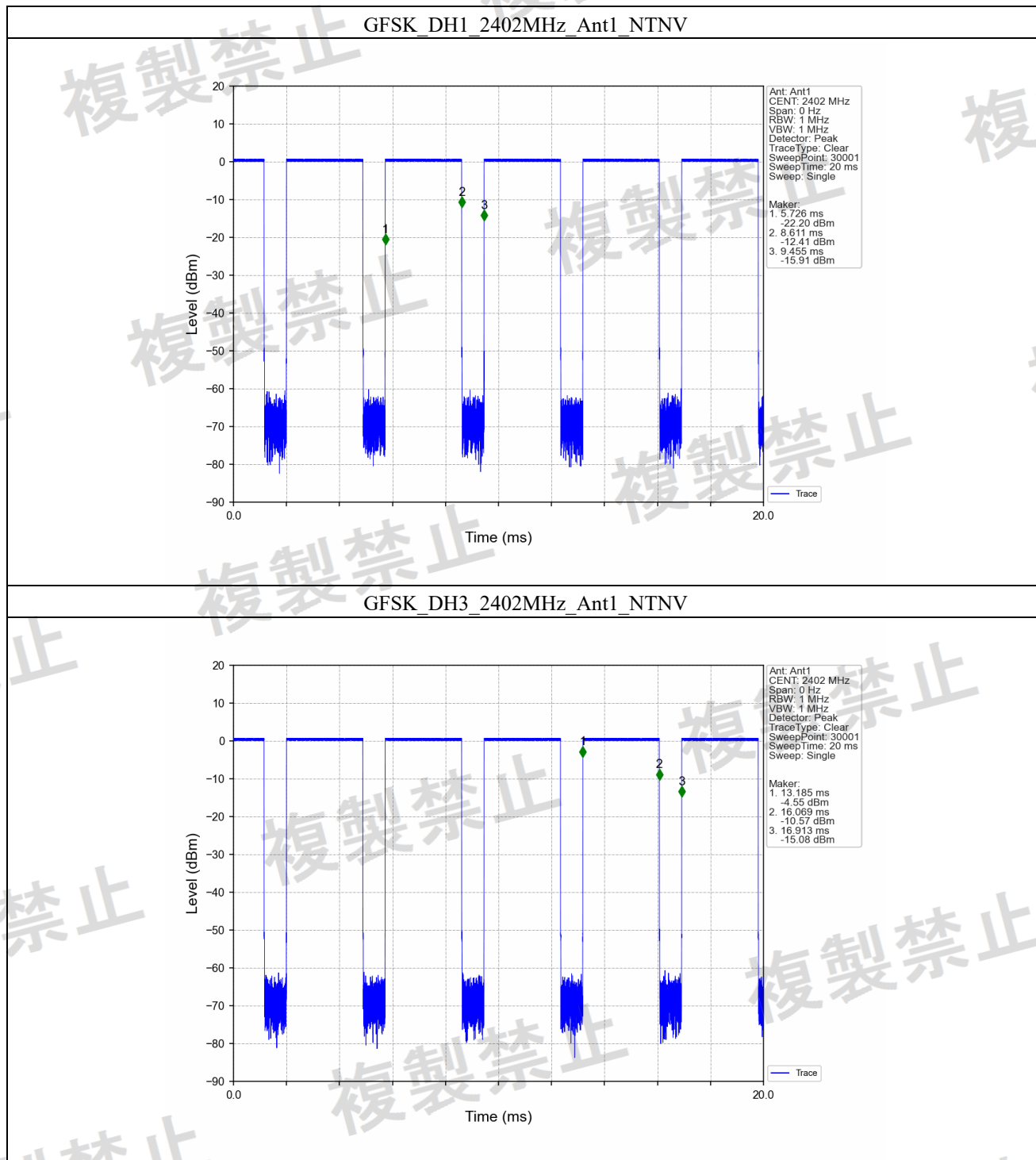
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				3DH5	18.644	2.881	3.736	20	287.545	<=400	Pass
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5.2 Test Graph

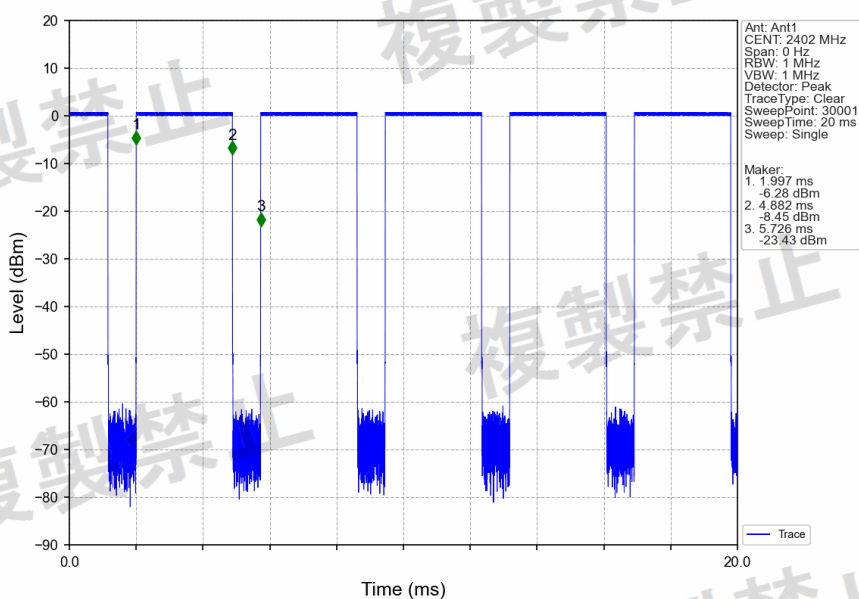
5.2.1 Ant1



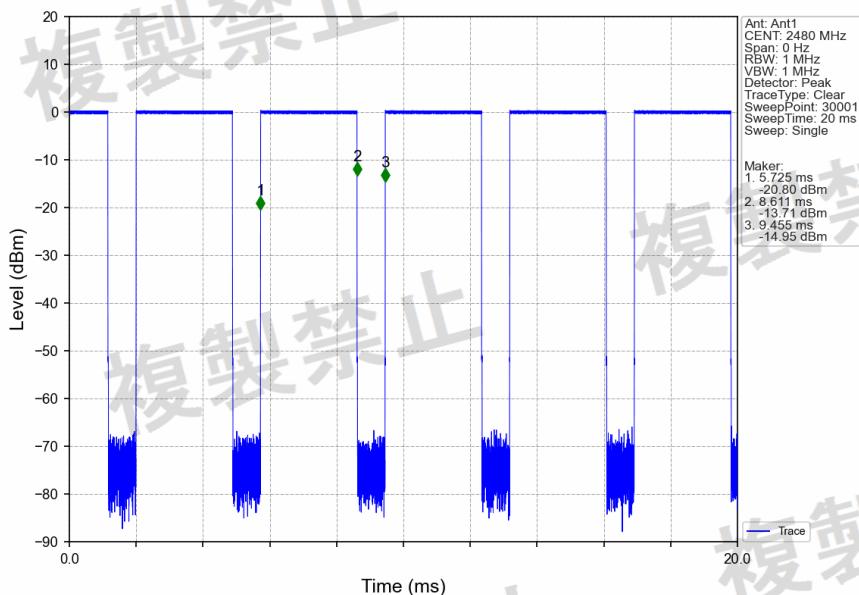
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GFSK_DH5_2402MHz_Ant1_NTNV



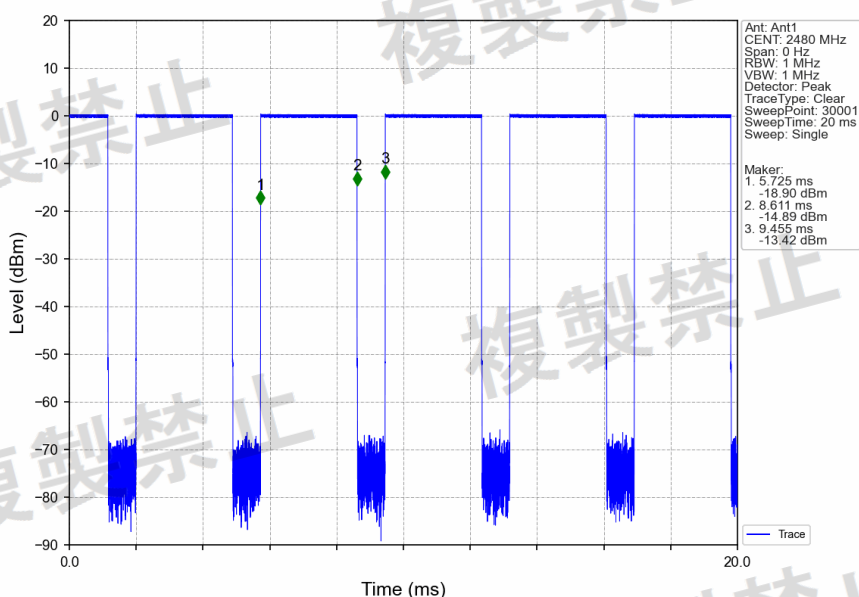
GFSK_DH1_2480MHz_Ant1_NTNV



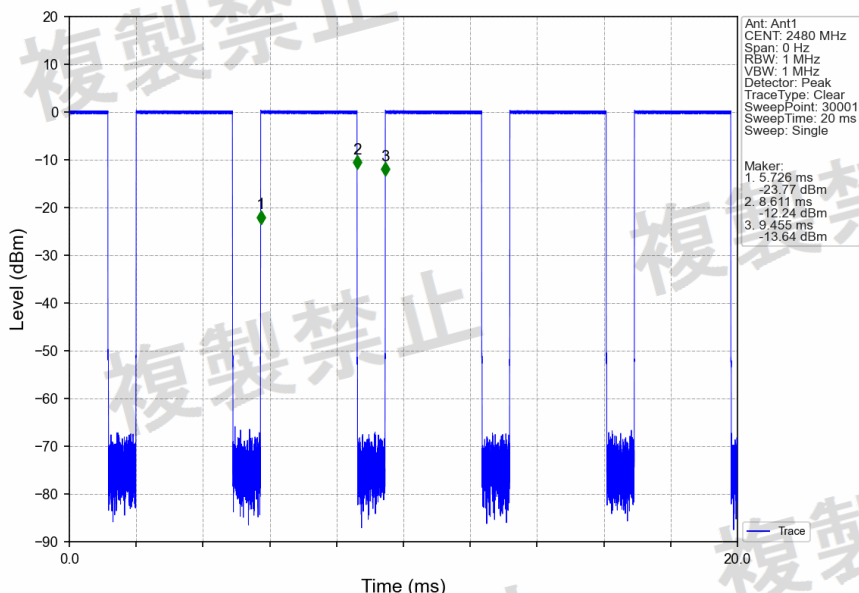
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GFSK_DH3_2480MHz_Ant1_NTNV



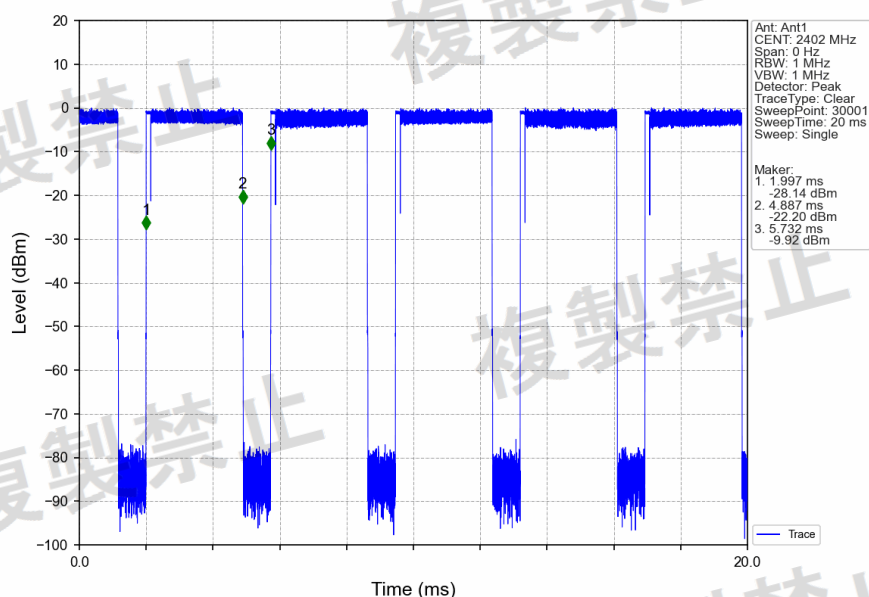
GFSK_DH5_2480MHz_Ant1_NTNV



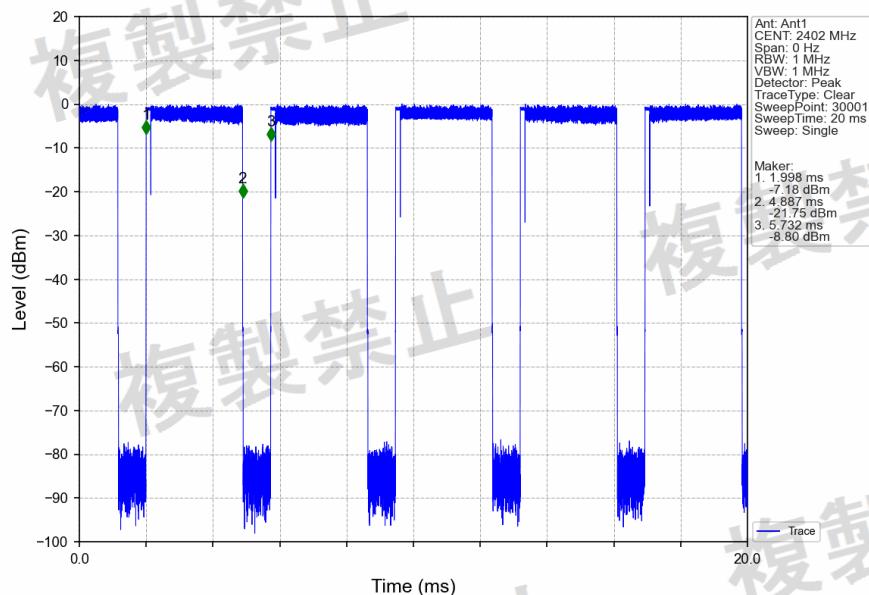
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



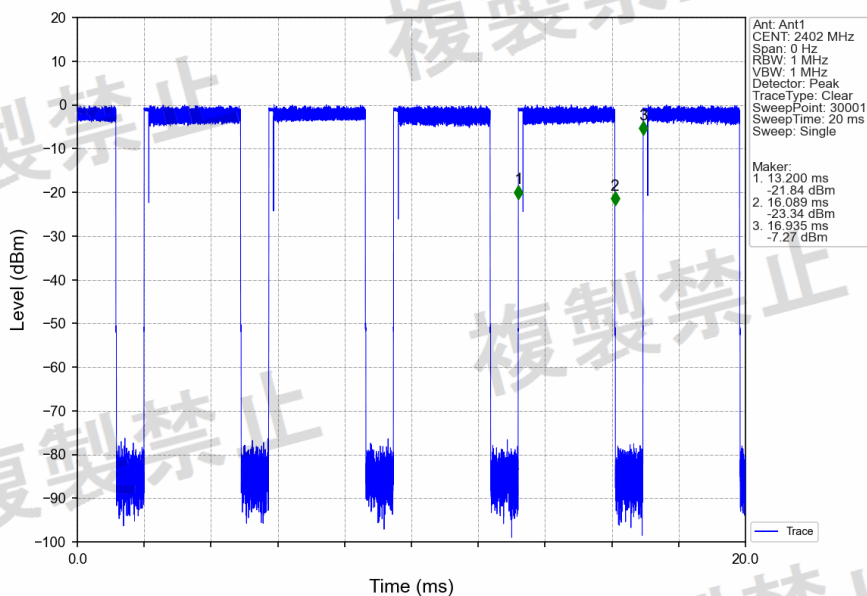
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTNV



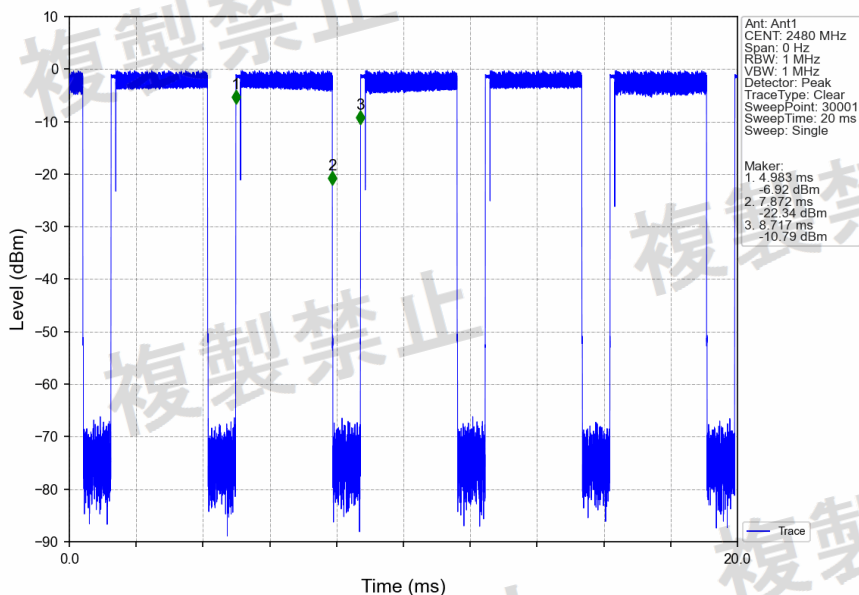
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



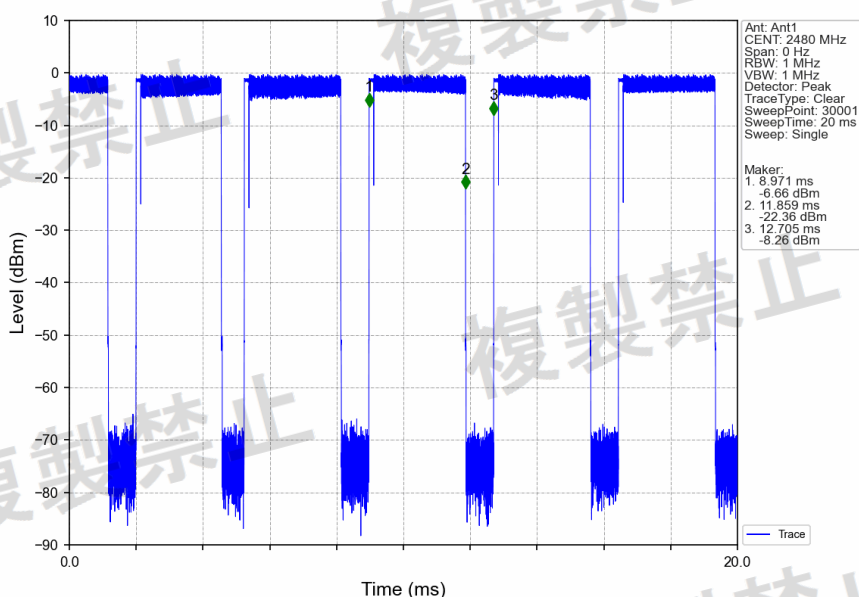
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTNV



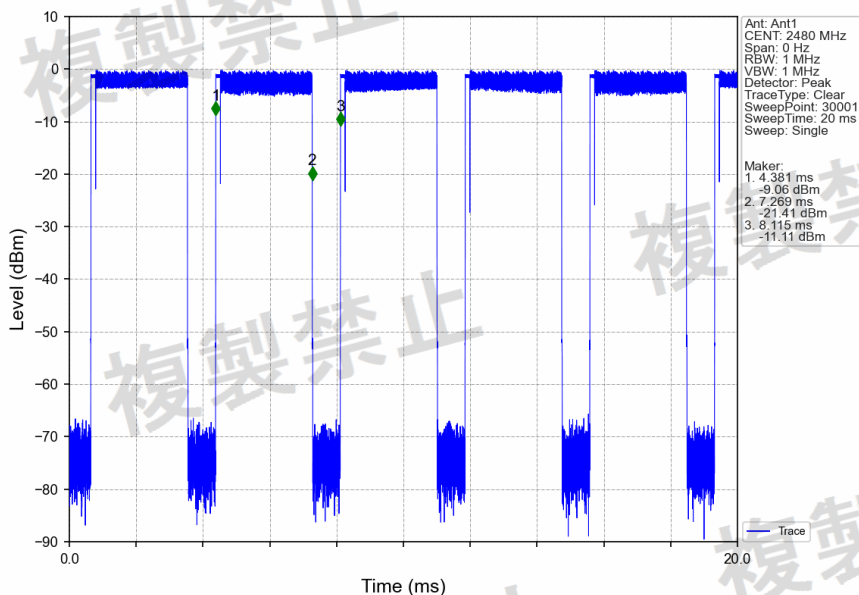
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



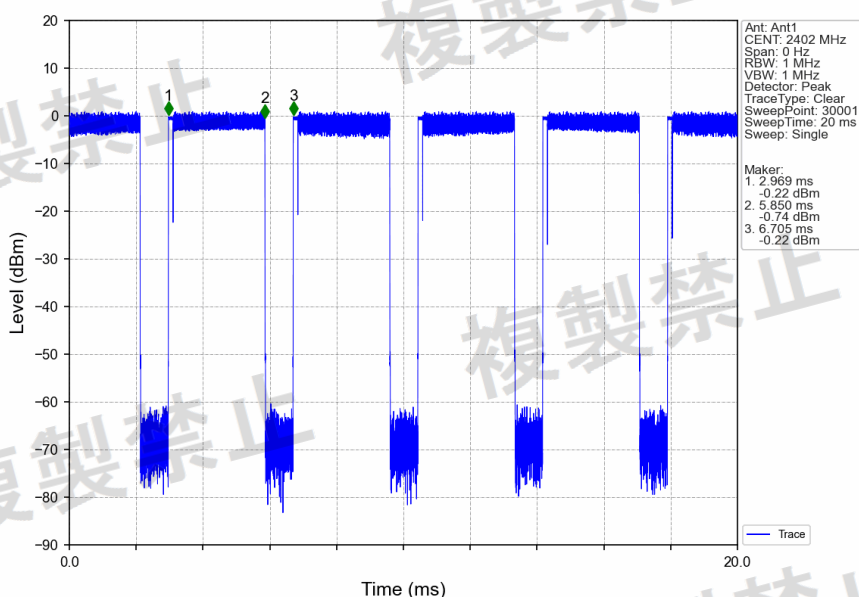
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



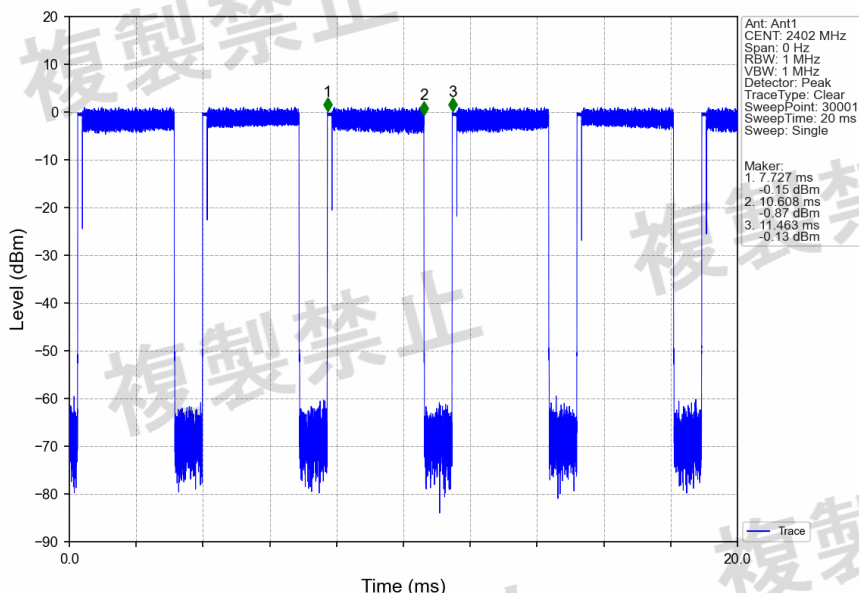
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8DPSK_3DH1_2402MHz_Ant1_NTNV



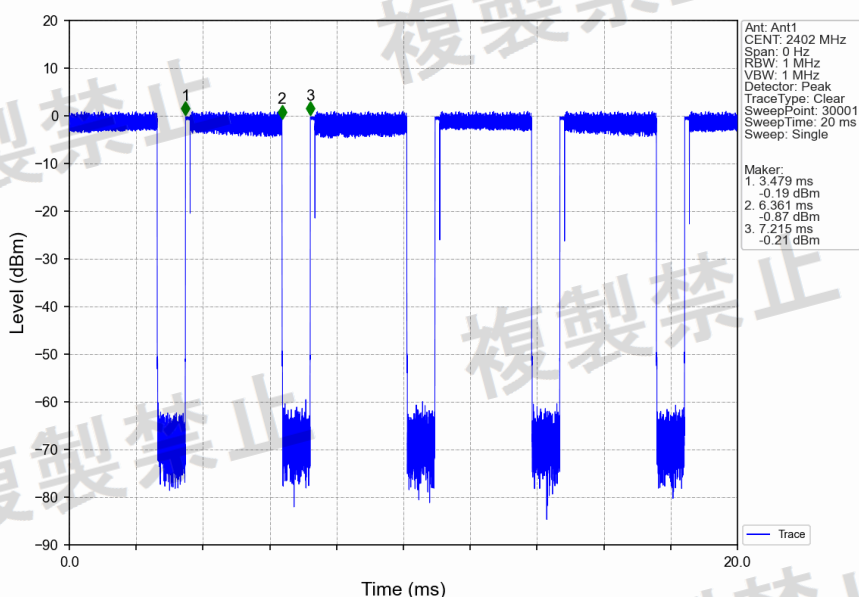
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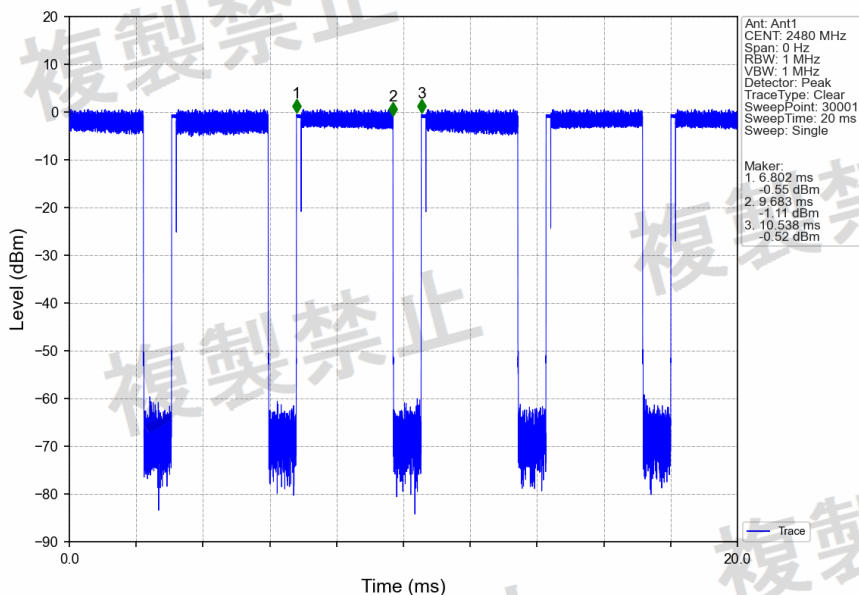
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8DPSK_3DH5_2402MHz_Ant1_NTNV



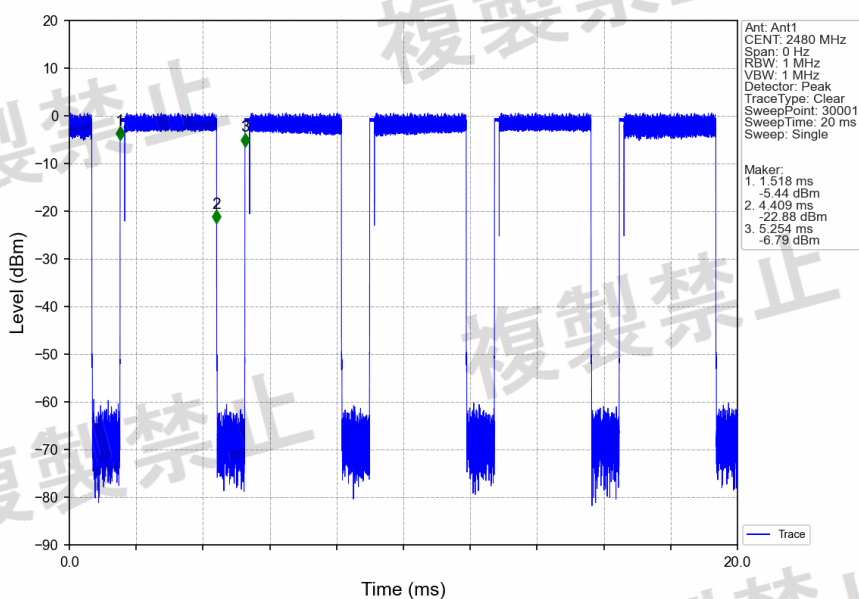
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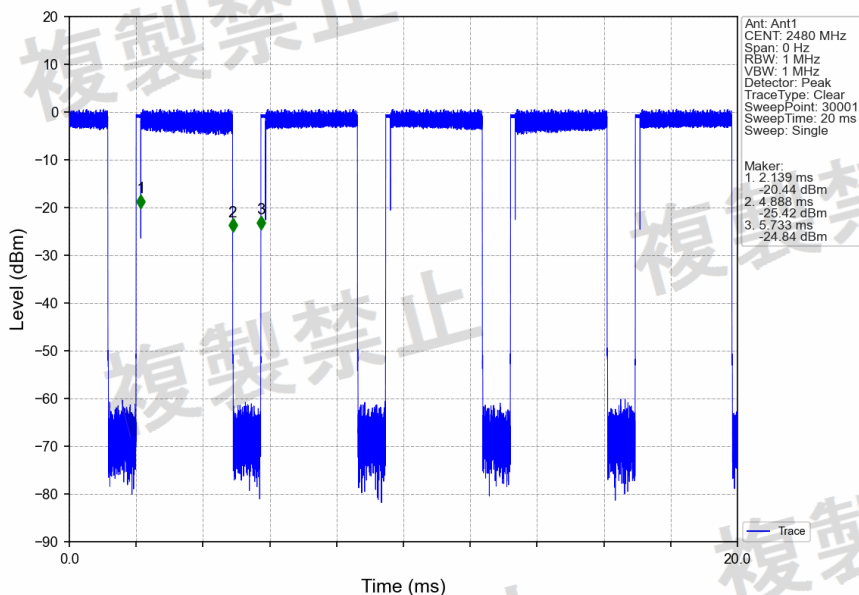
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8DPSK_3DH3_2480MHz_Ant1_NTNV



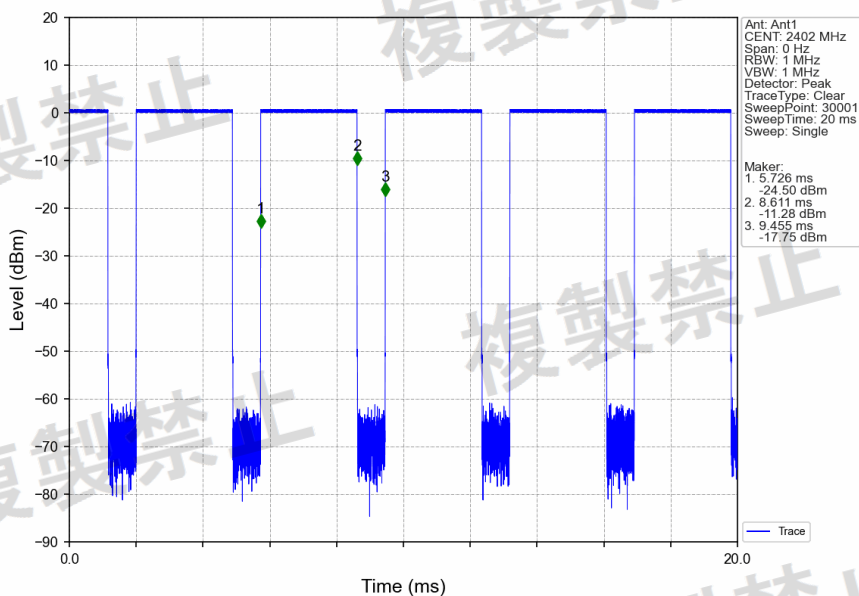
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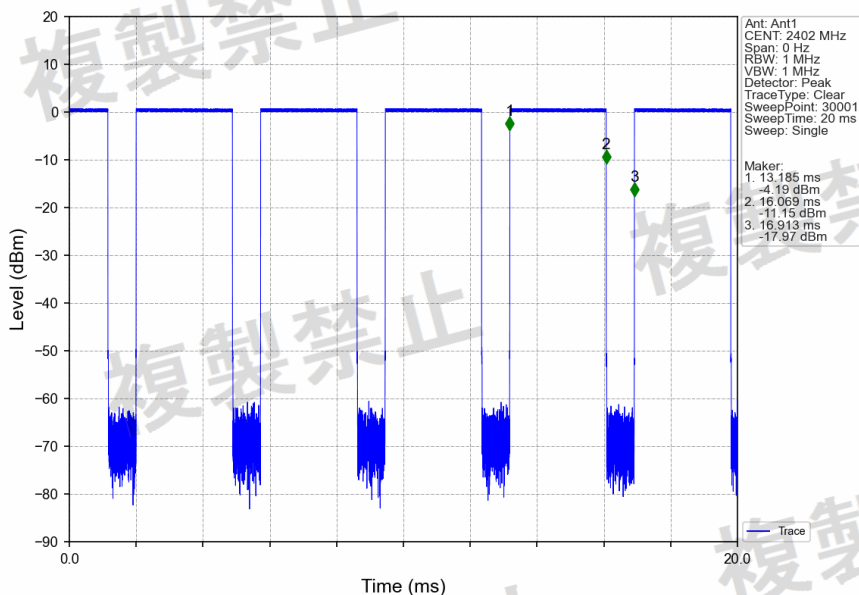
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GFSK_DH1_2402MHz_Ant1_NTLV



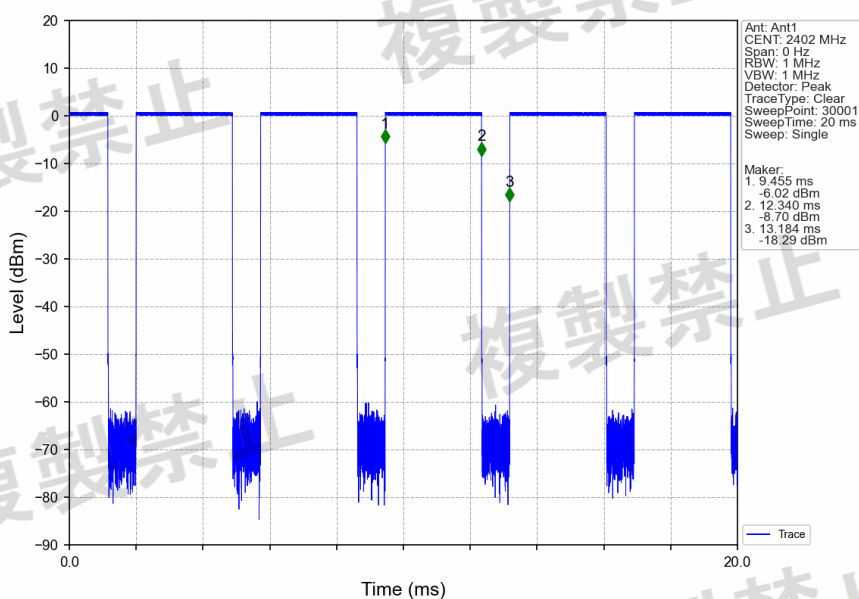
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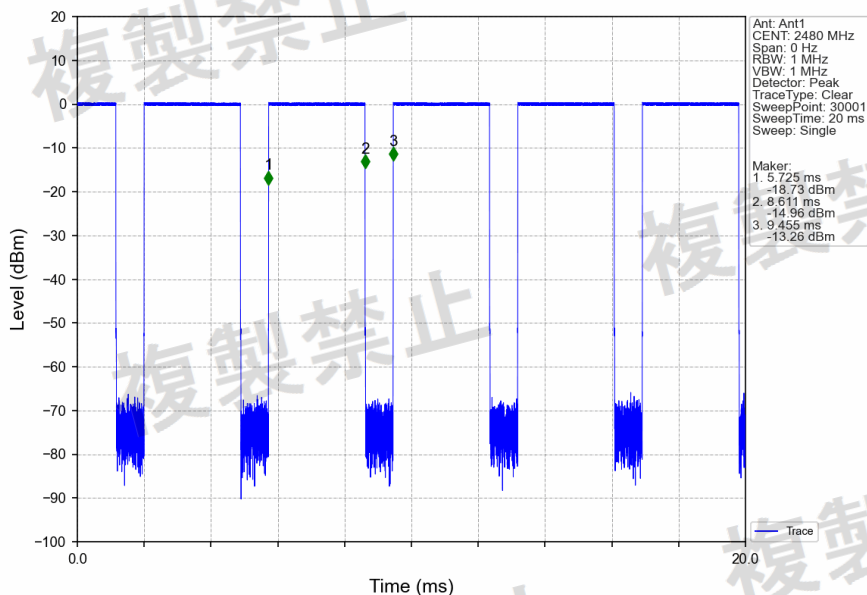
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GFSK_DH5_2402MHz_Ant1_NTLV



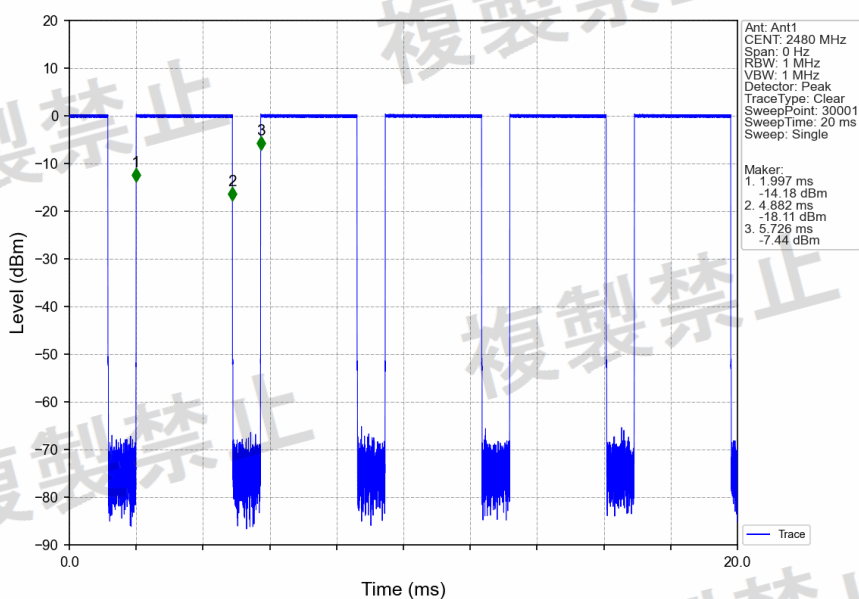
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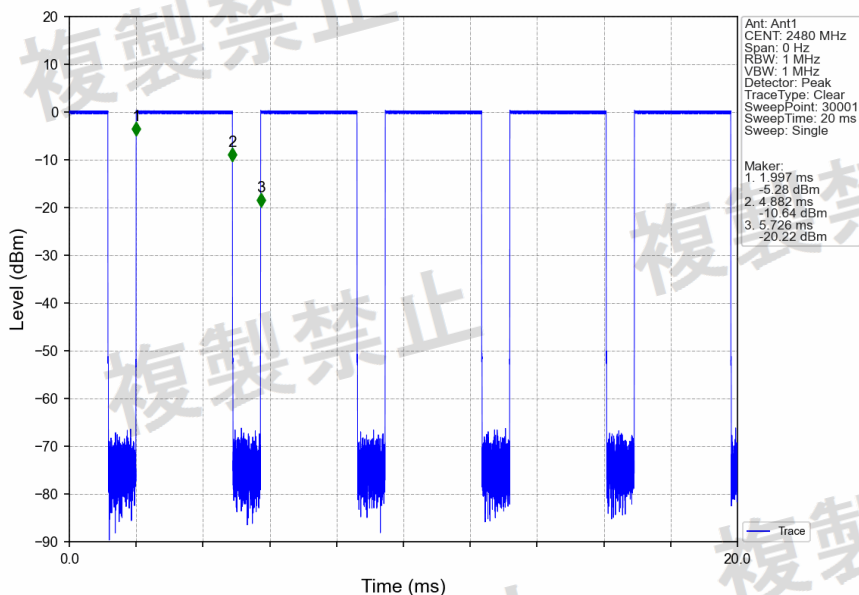
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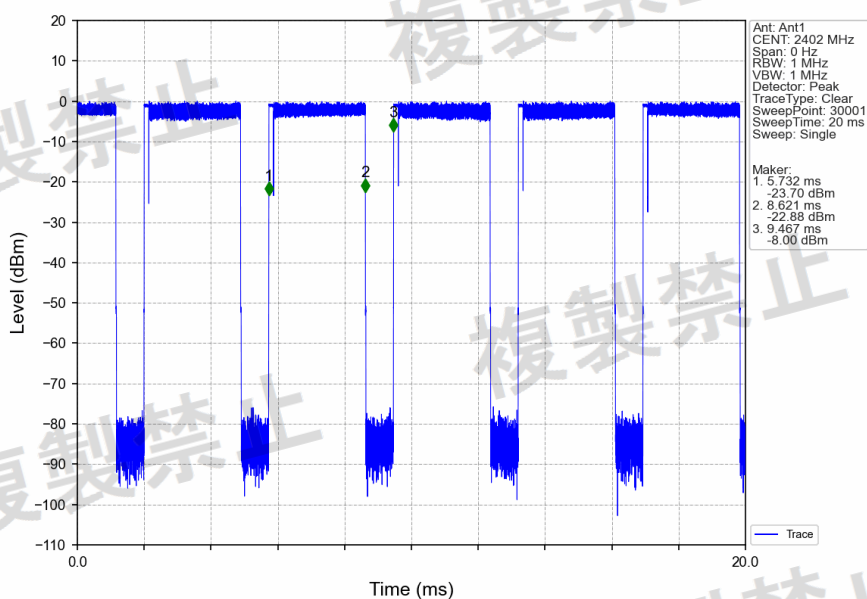
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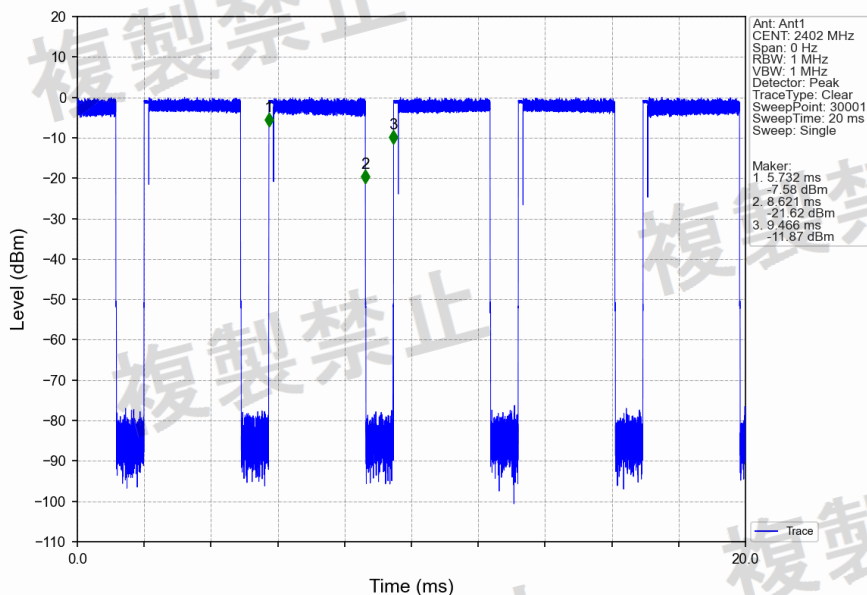
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTLV



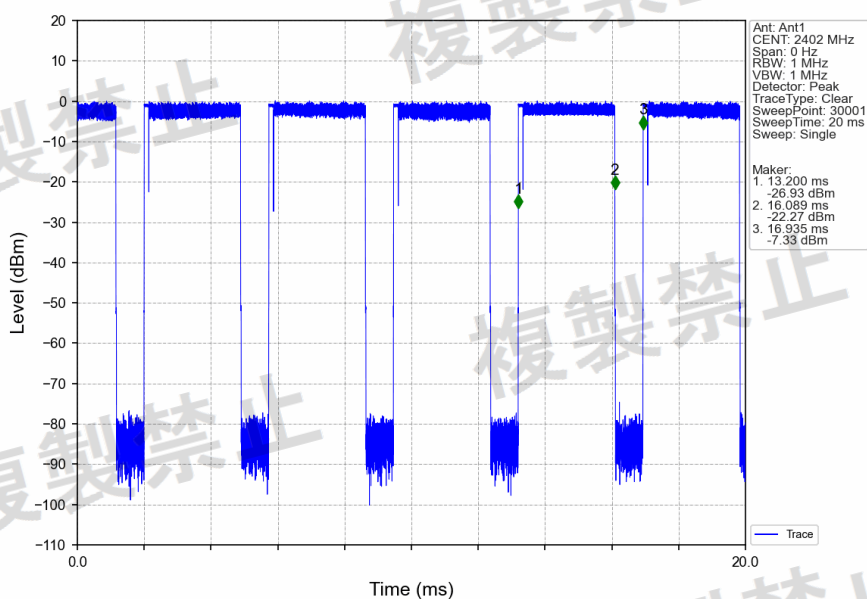
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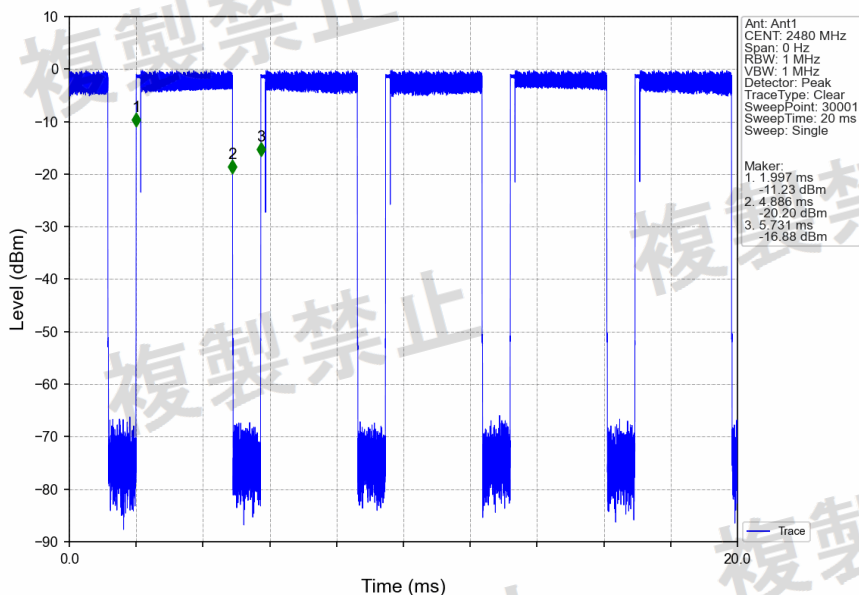
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



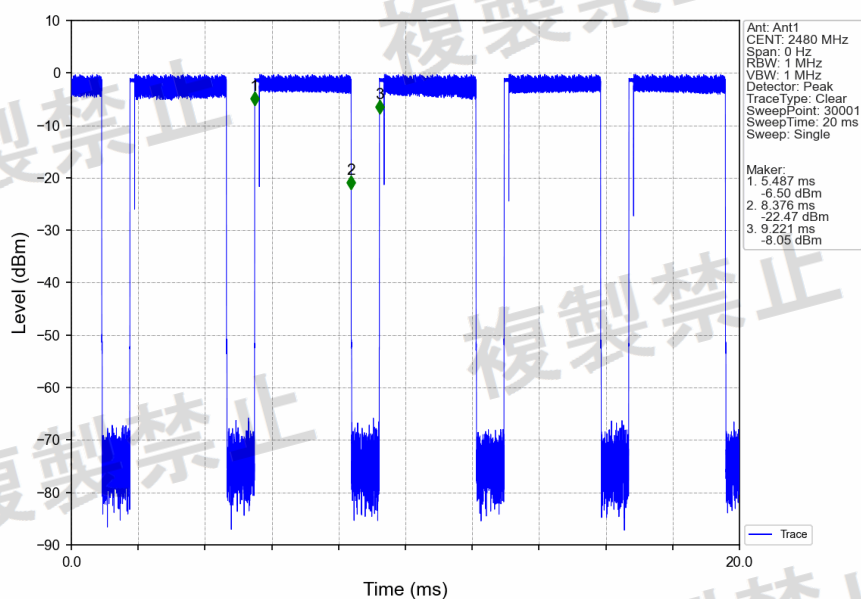
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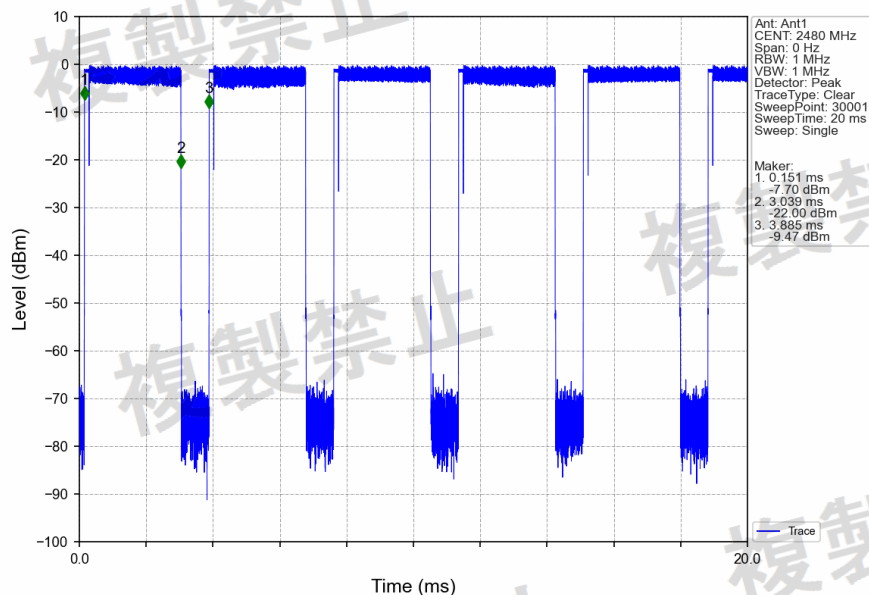
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTLV



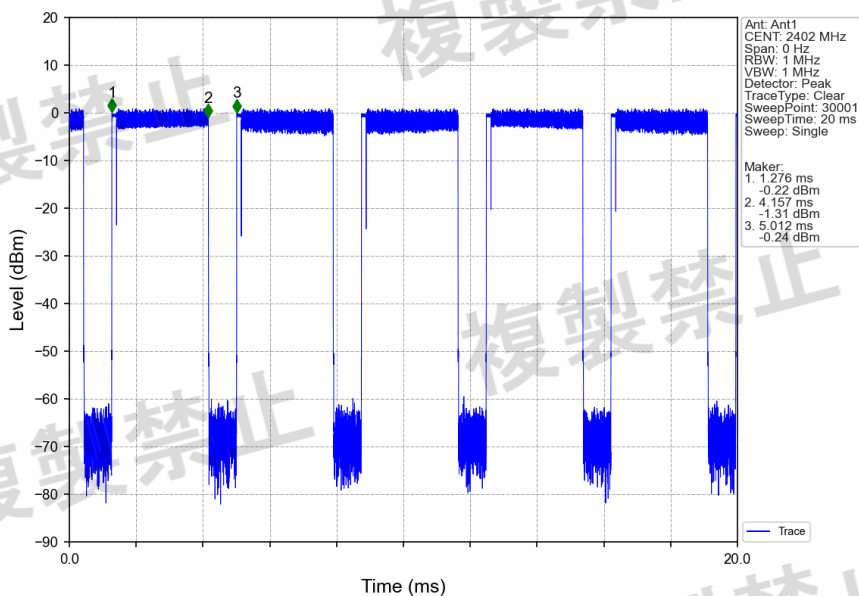
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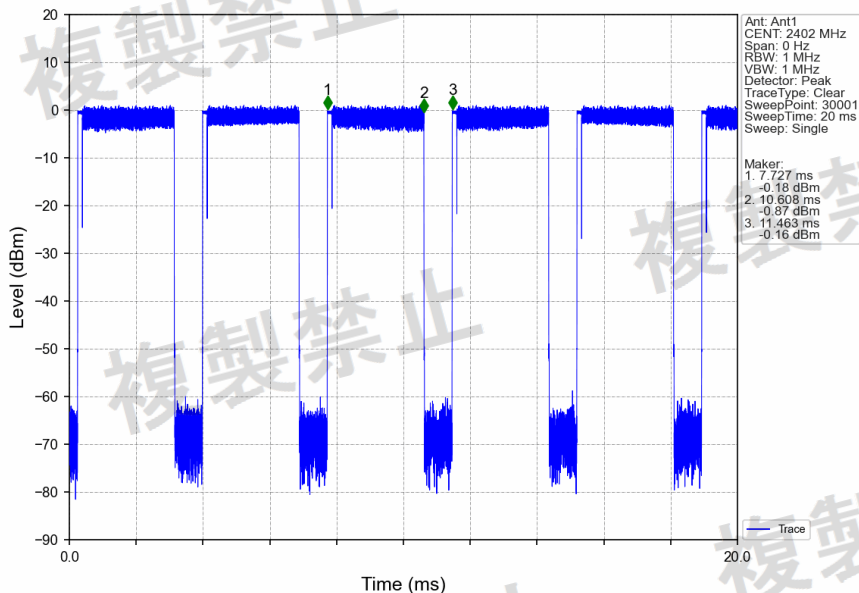
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8DPSK_3DH1_2402MHz_Ant1_NTLV



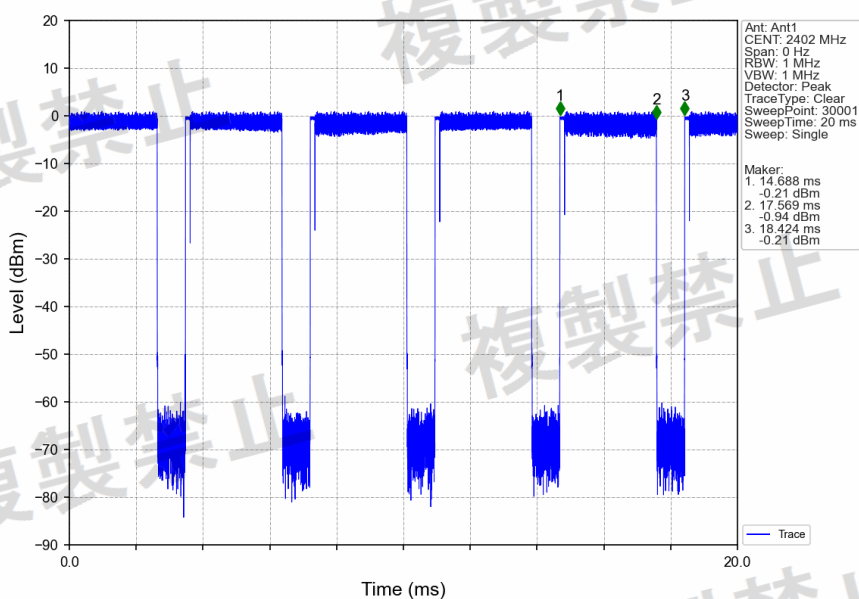
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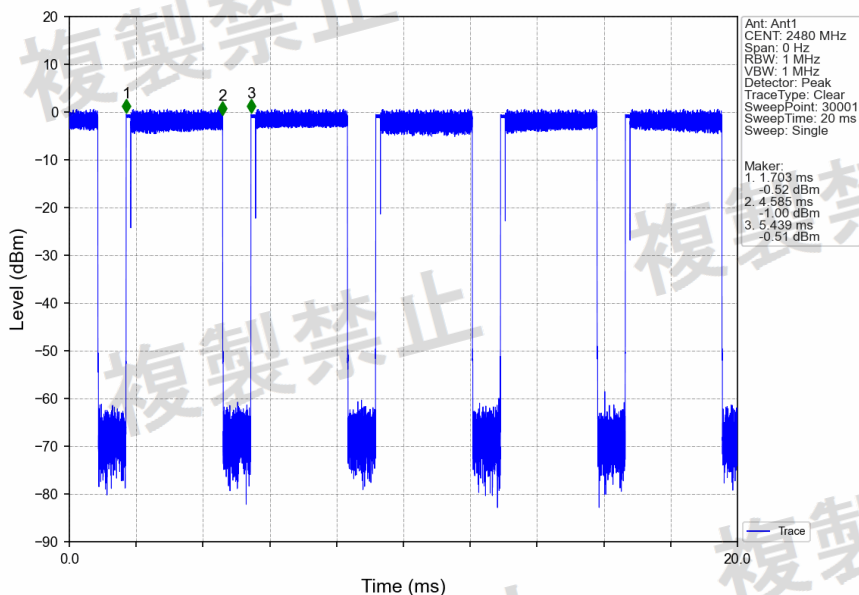
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8DPSK_3DH5_2402MHz_Ant1_NTLV



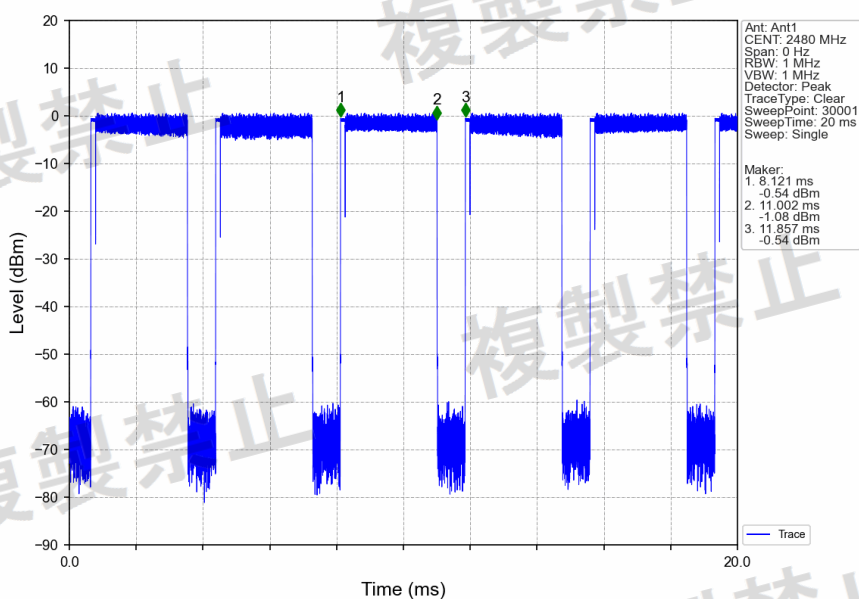
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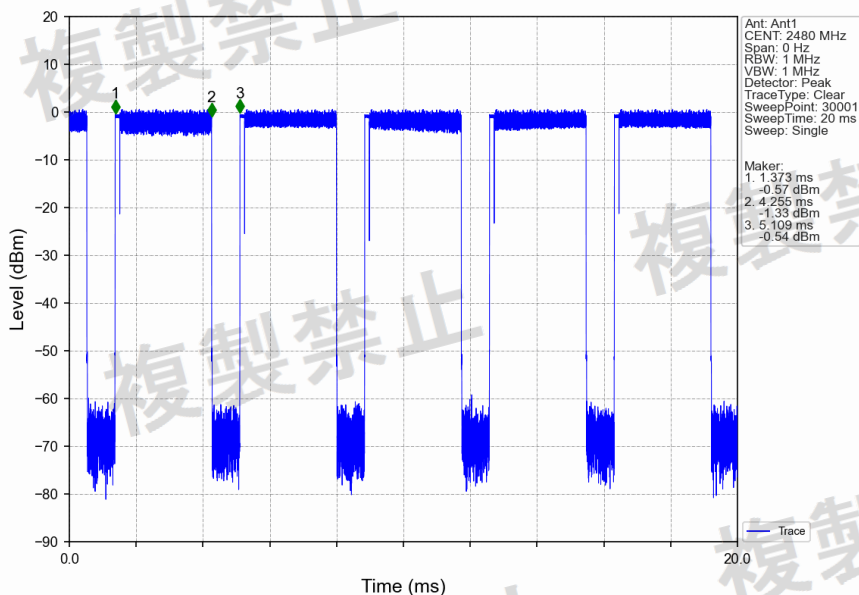
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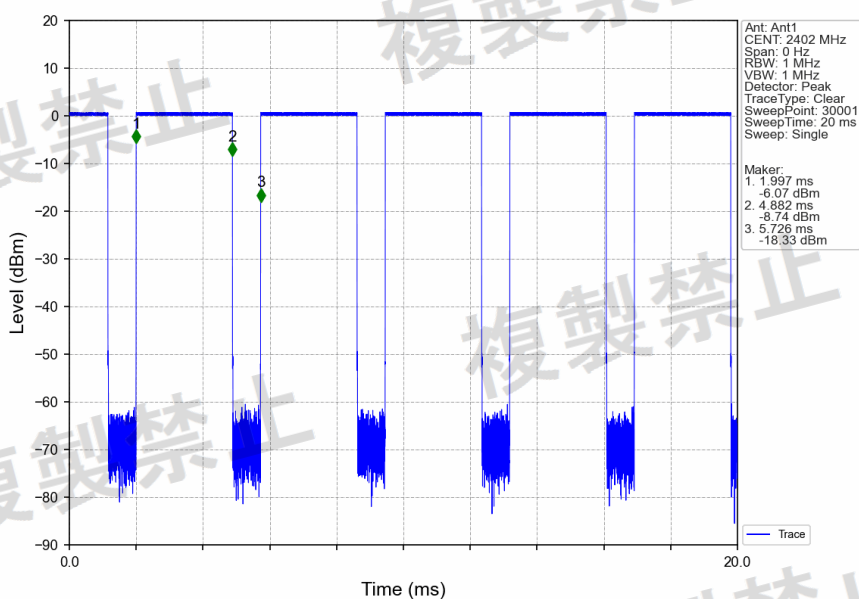
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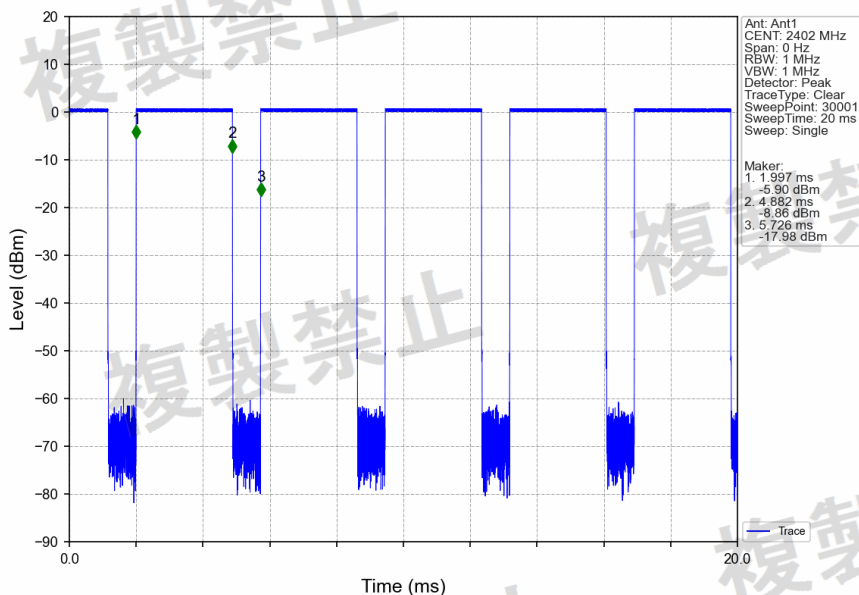
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GFSK_DH1_2402MHz_Ant1_NTHV



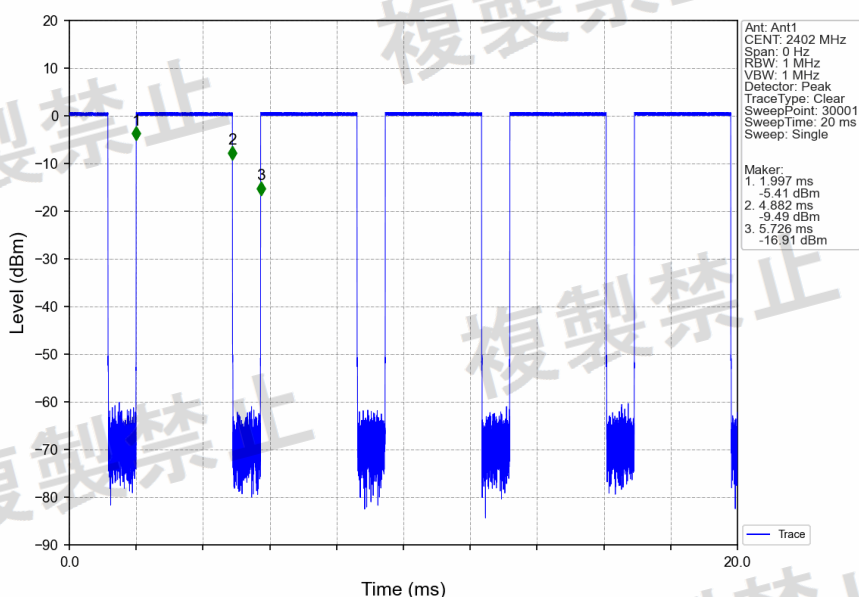
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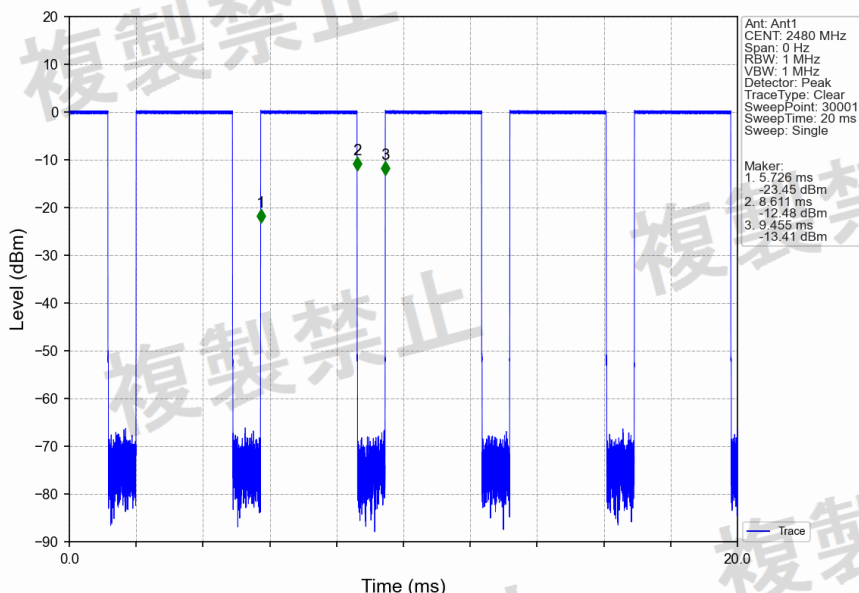
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GFSK_DH5_2402MHz_Ant1_NTHV



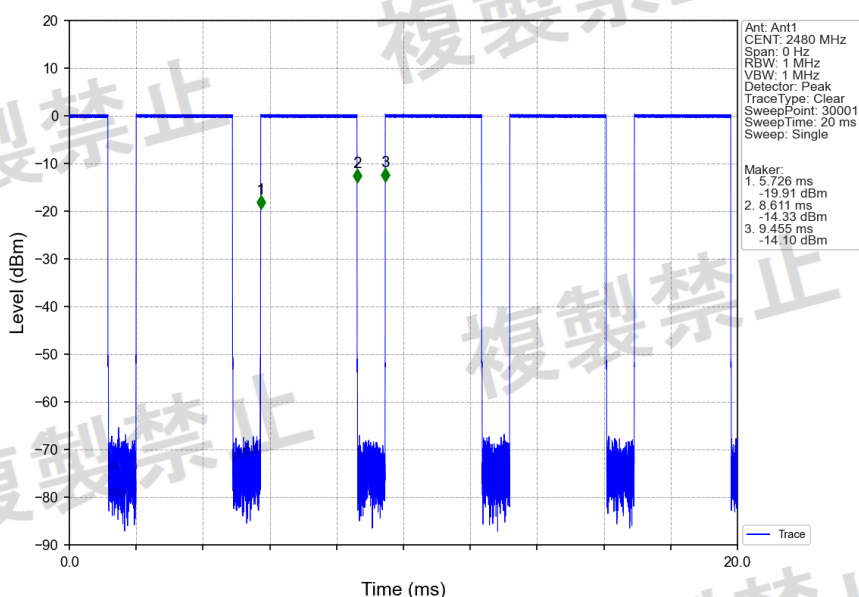
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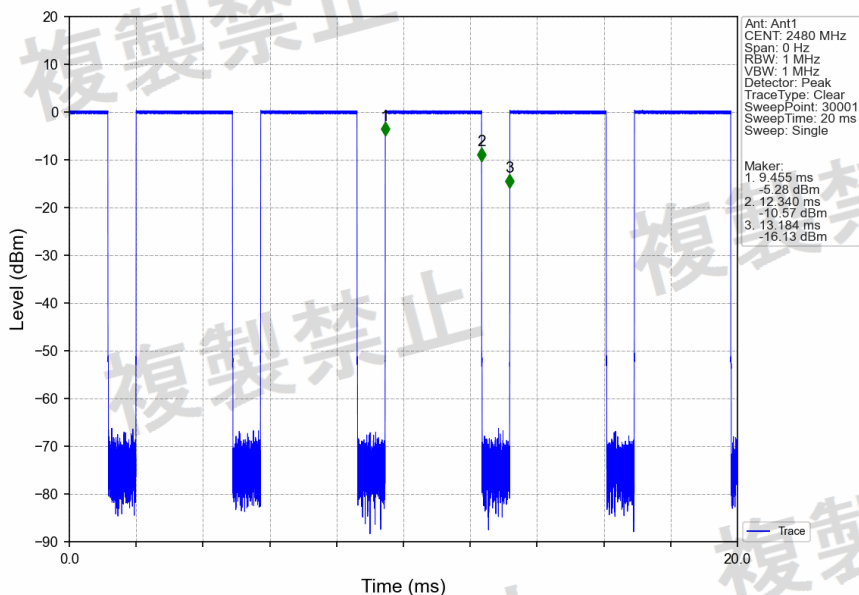
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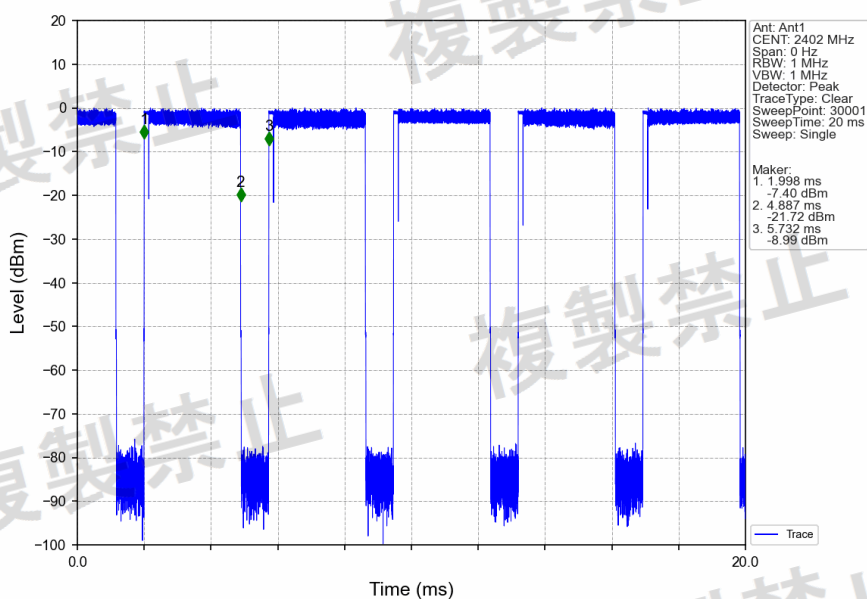
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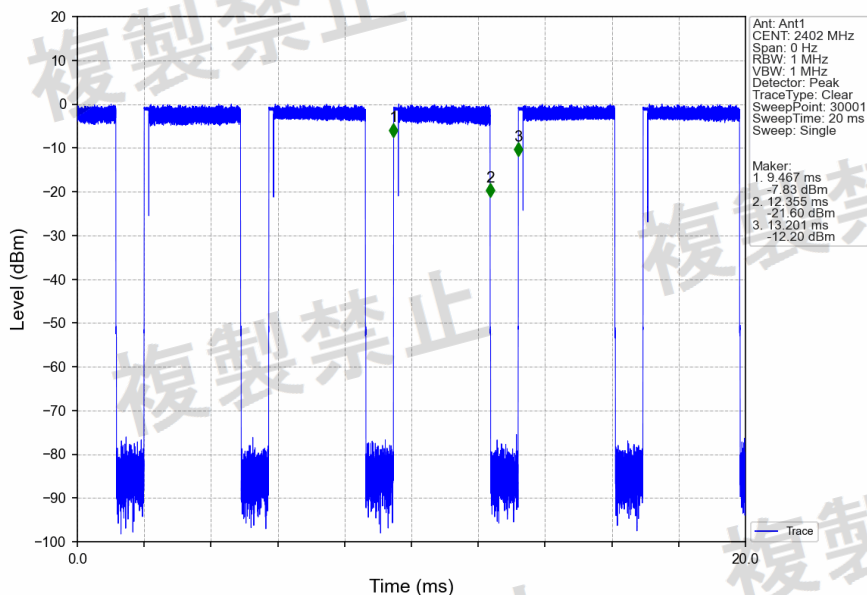
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTHV



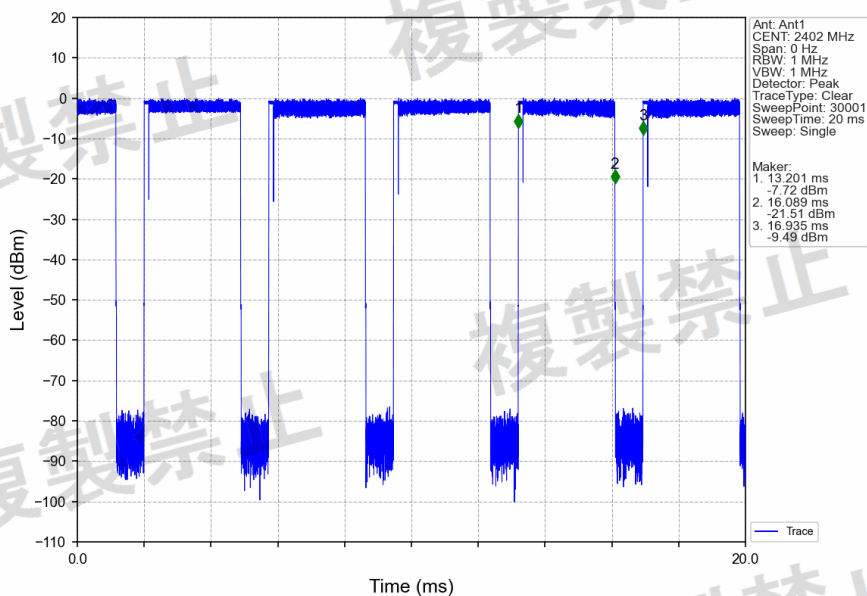
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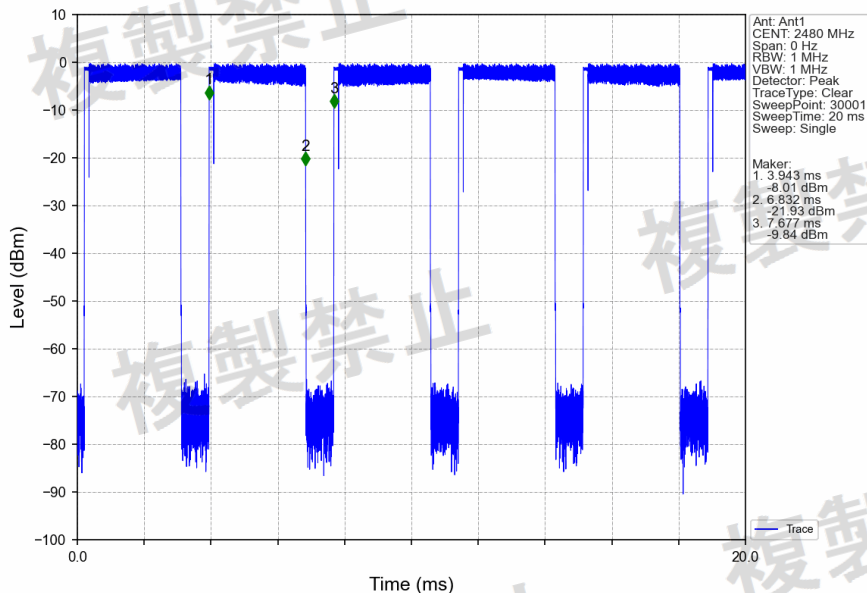
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



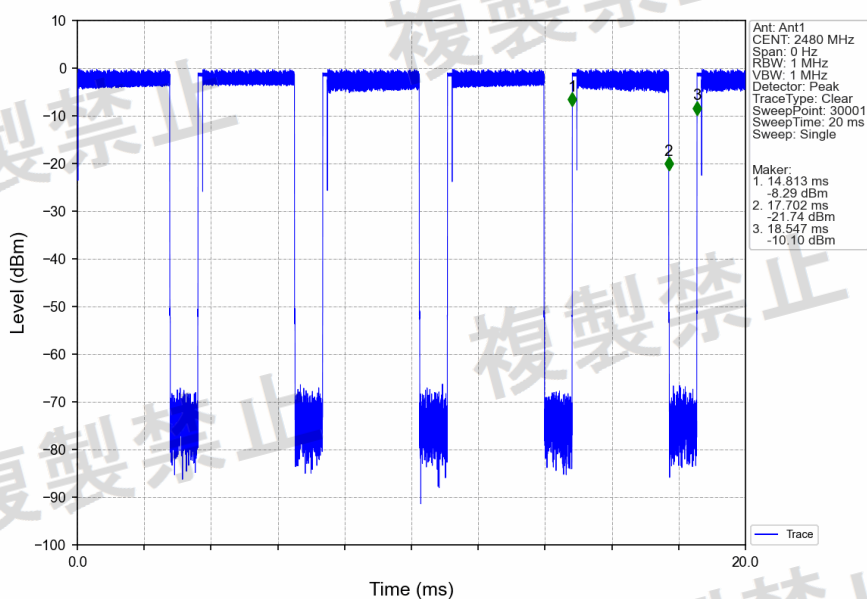
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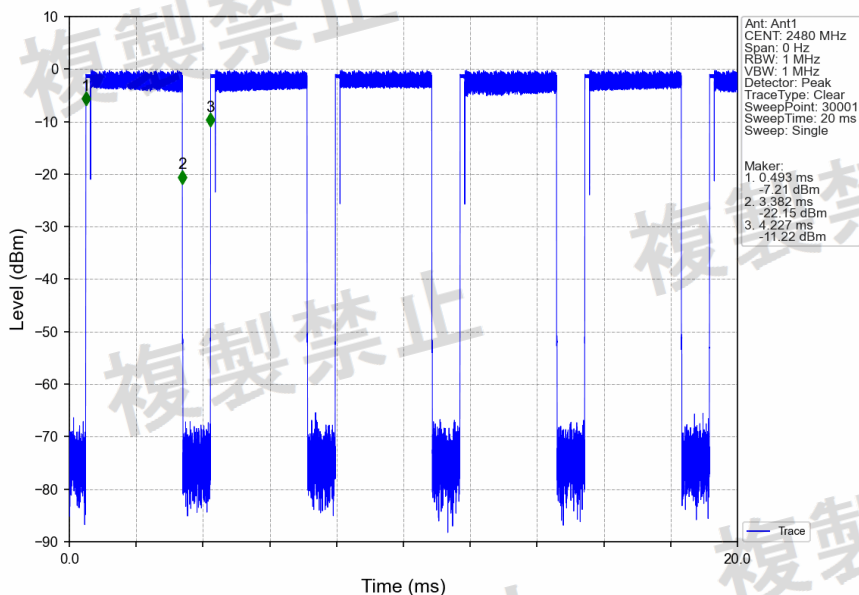
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTHV



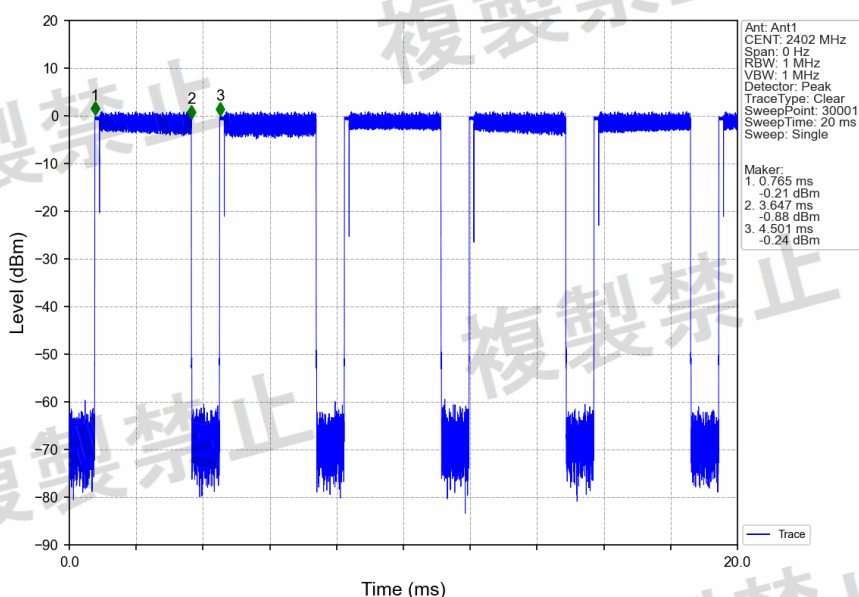
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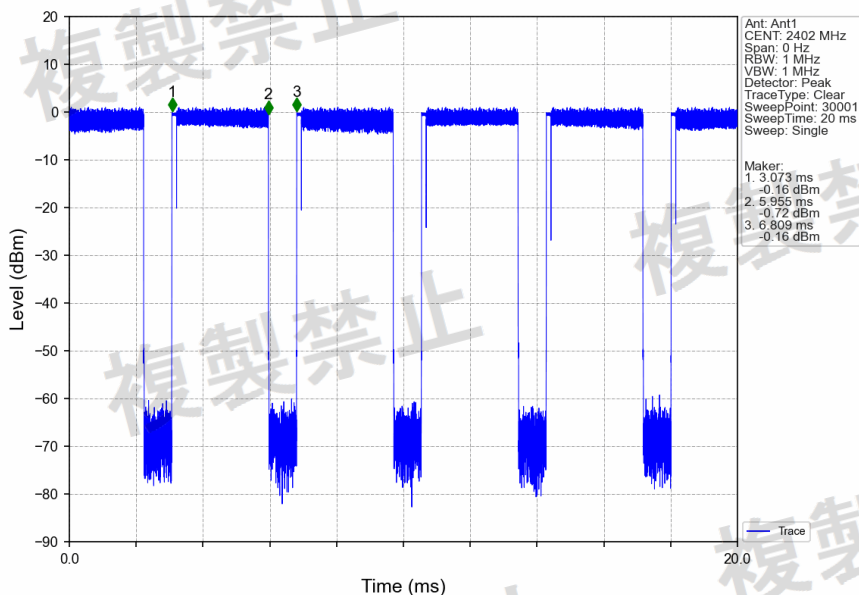
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8DPSK_3DH1_2402MHz_Ant1_NTHV



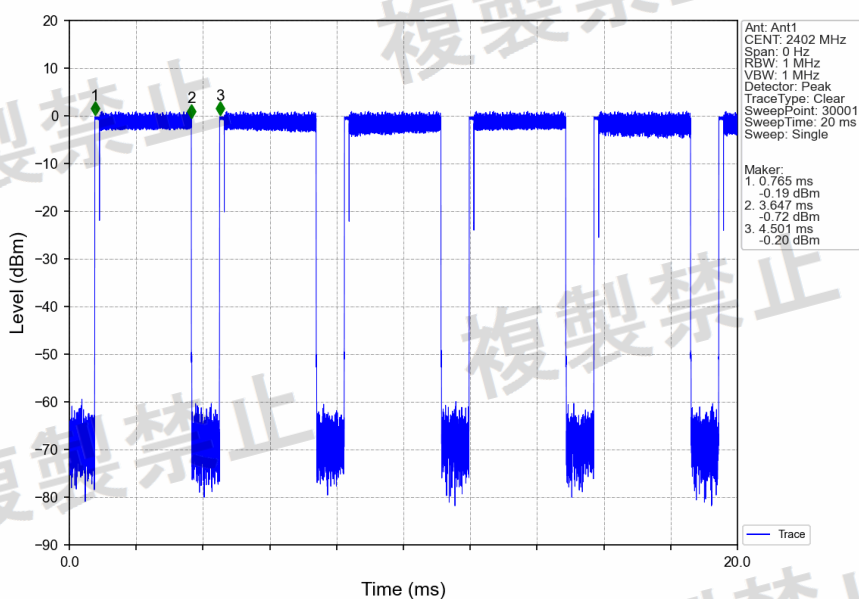
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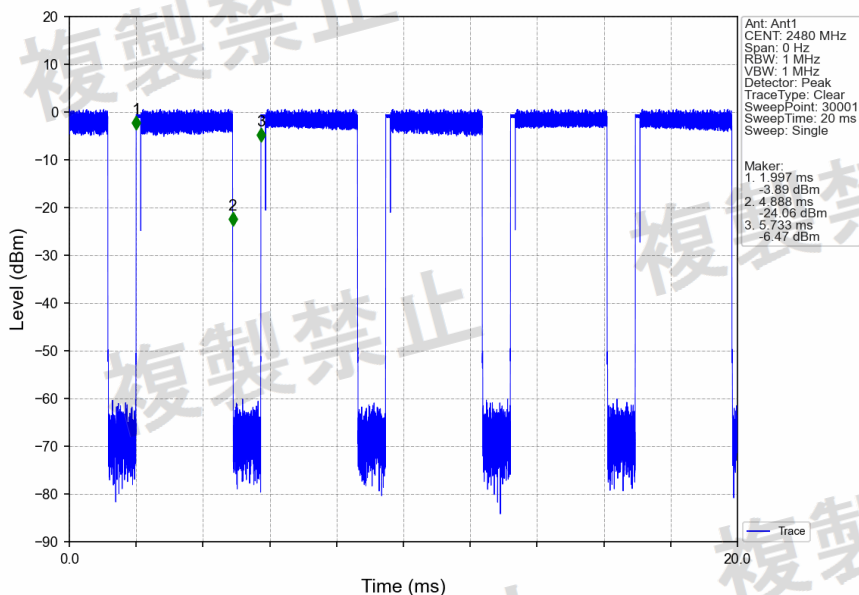
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8DPSK_3DH5_2402MHz_Ant1_NTHV



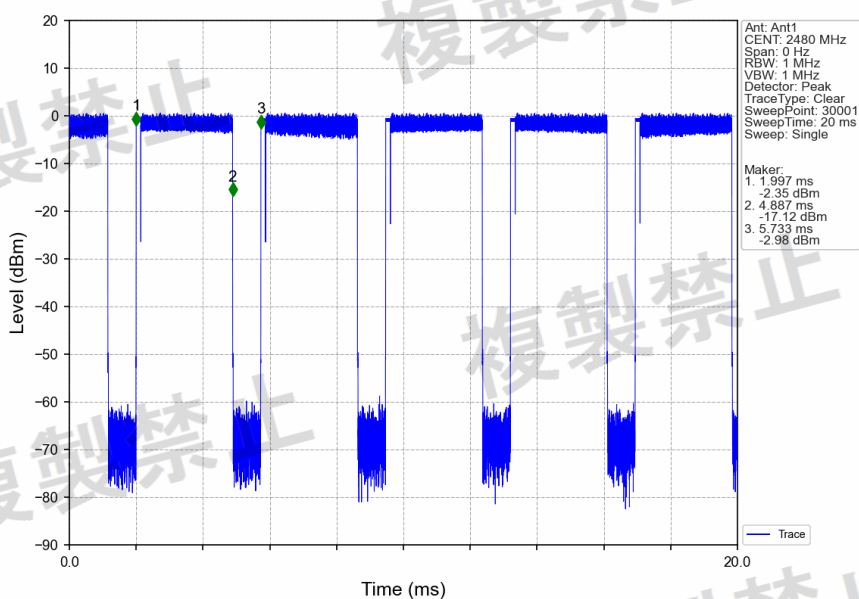
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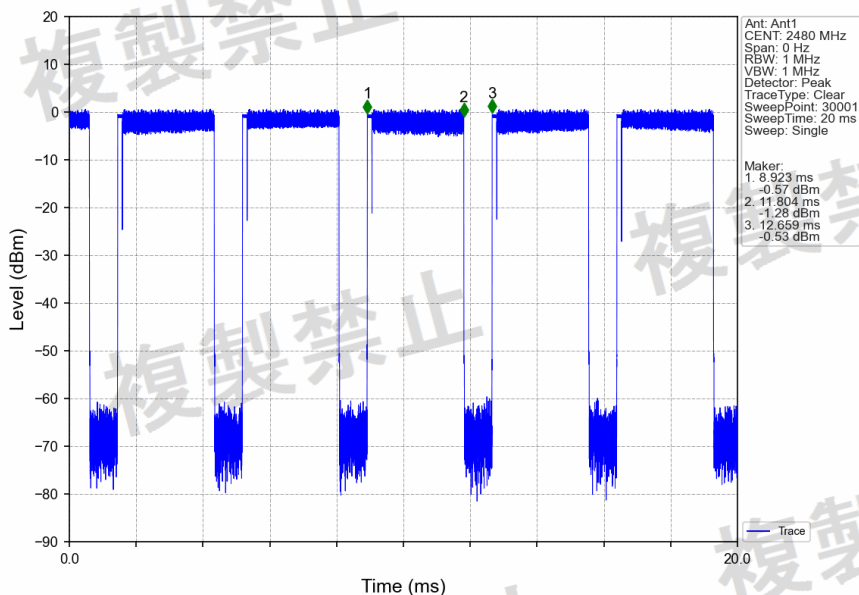
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8DPSK_3DH3_2480MHz_Ant1_NTHV



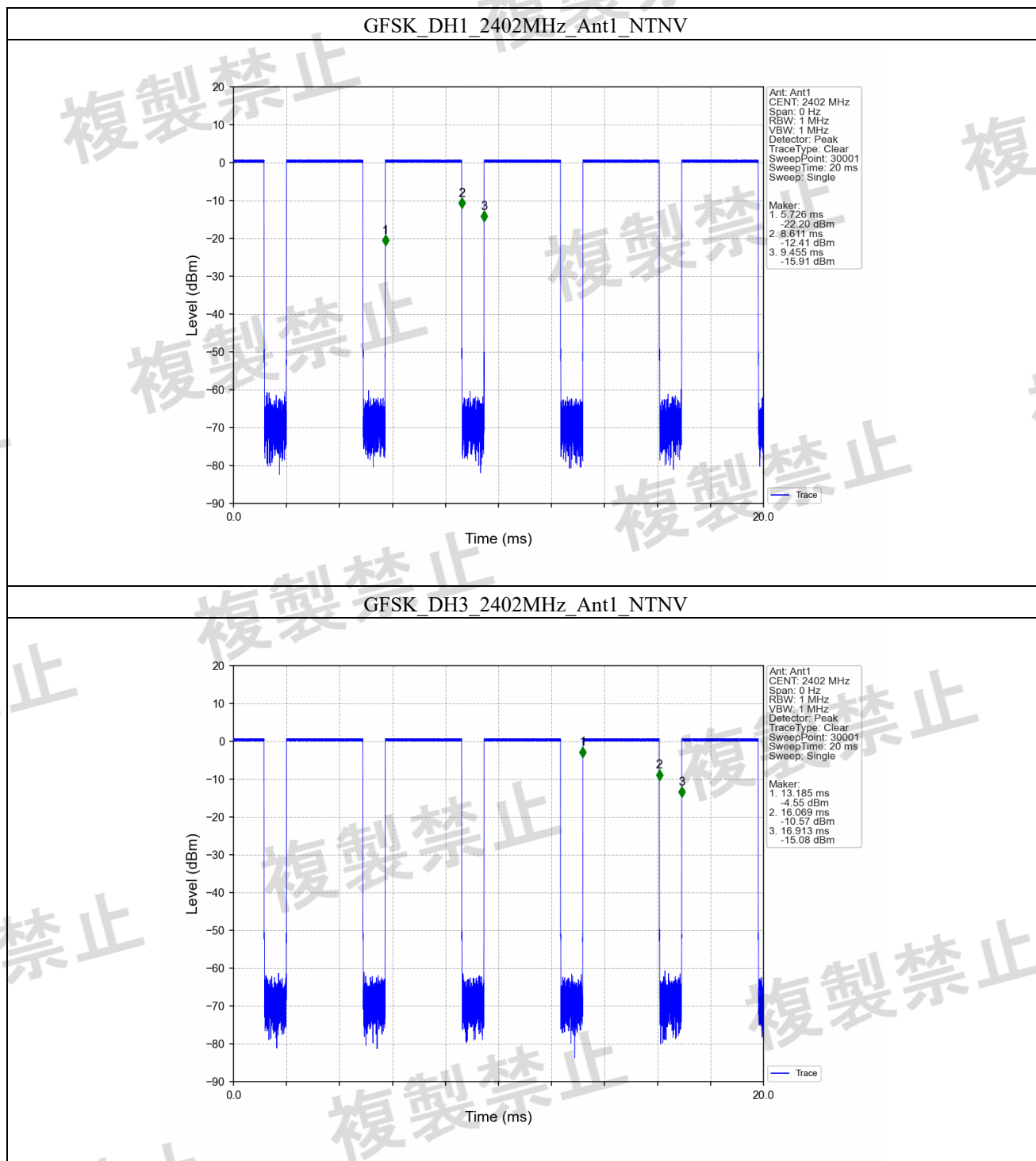
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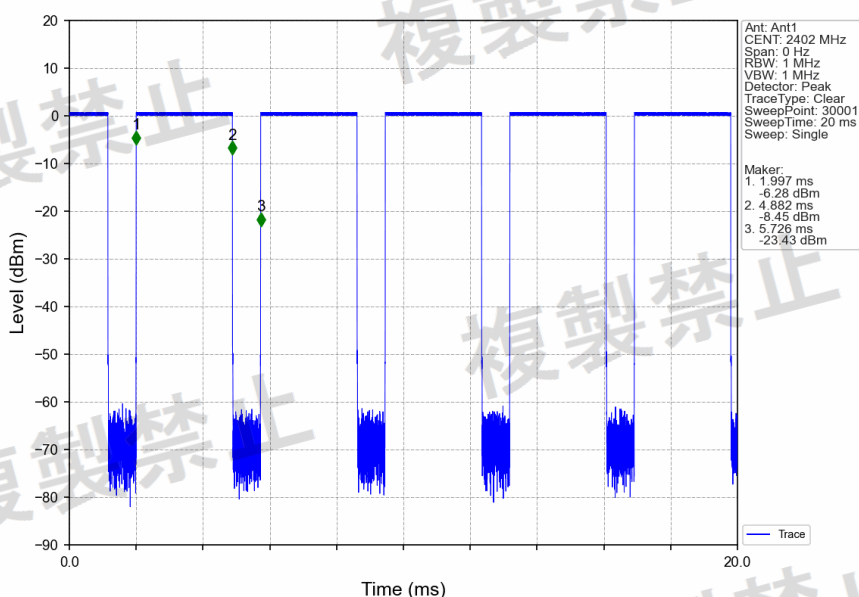
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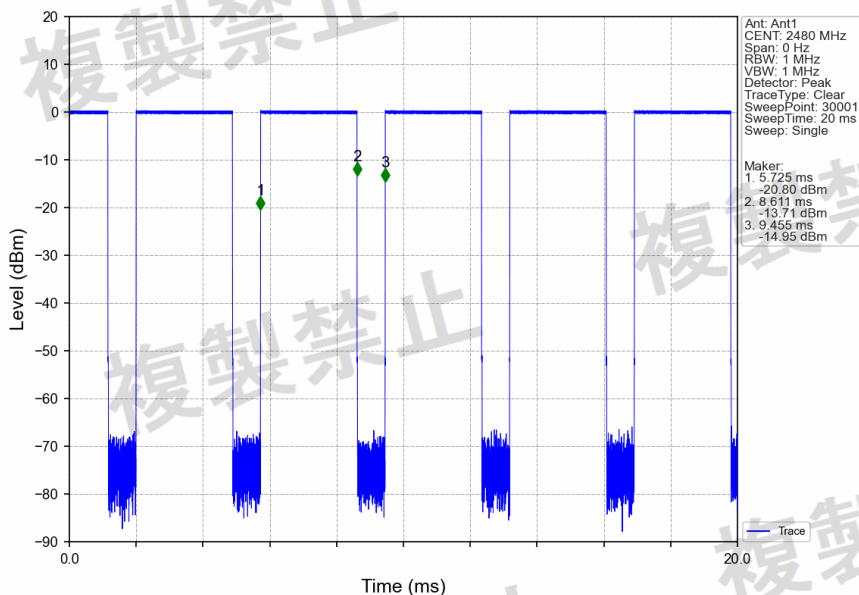
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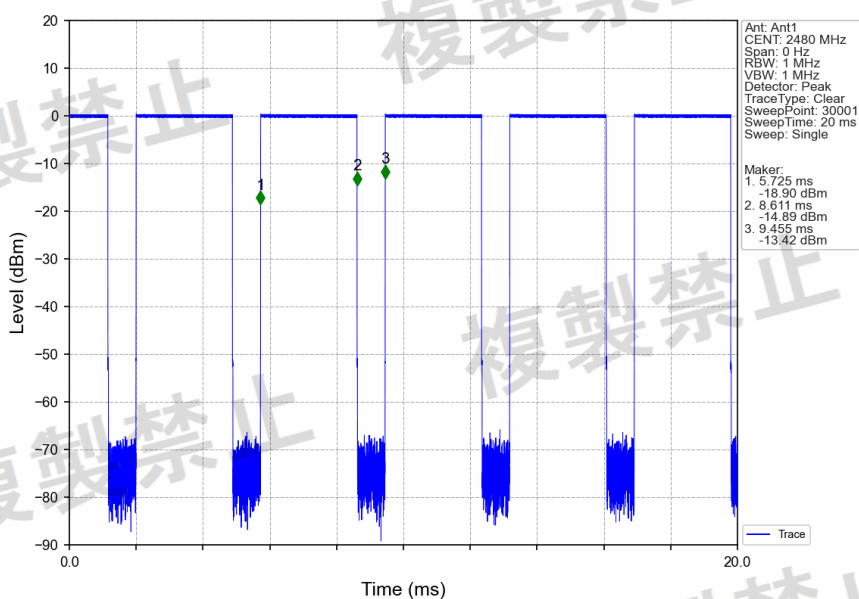
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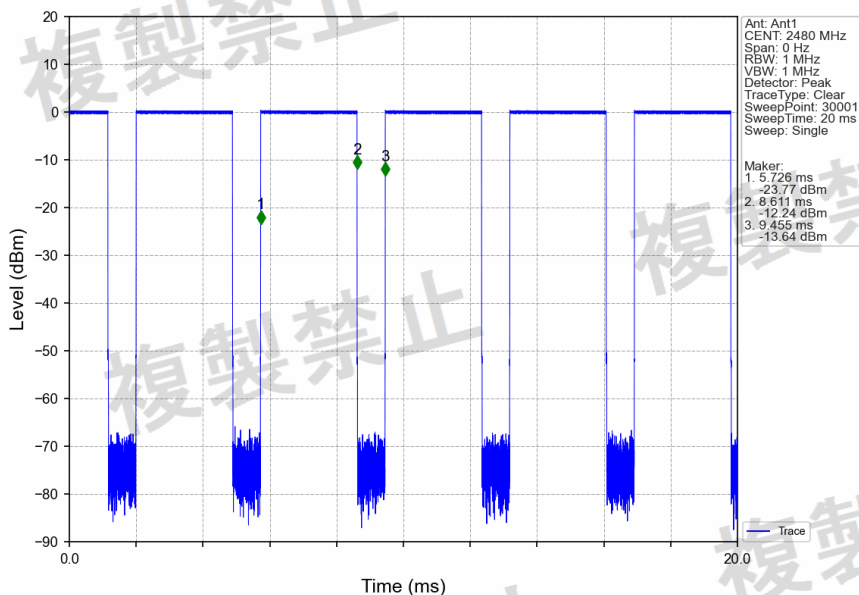
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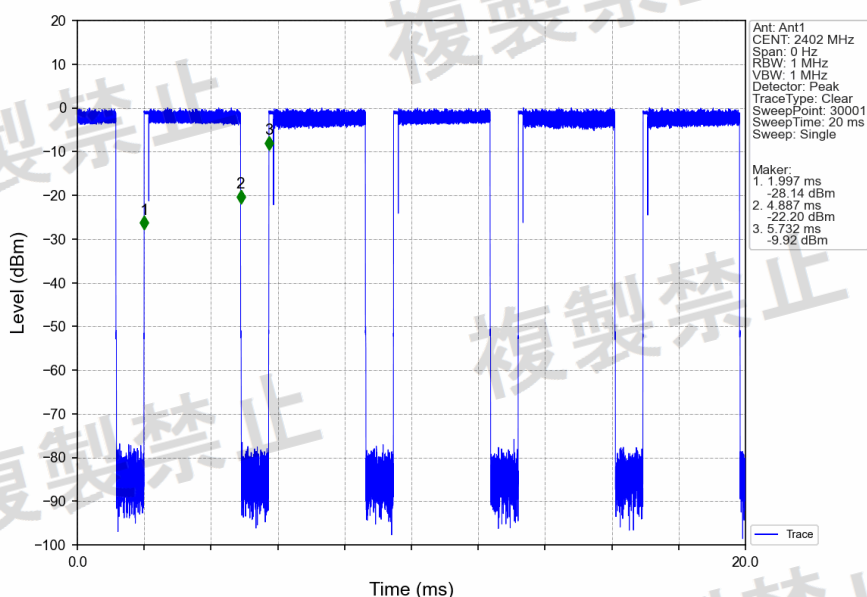
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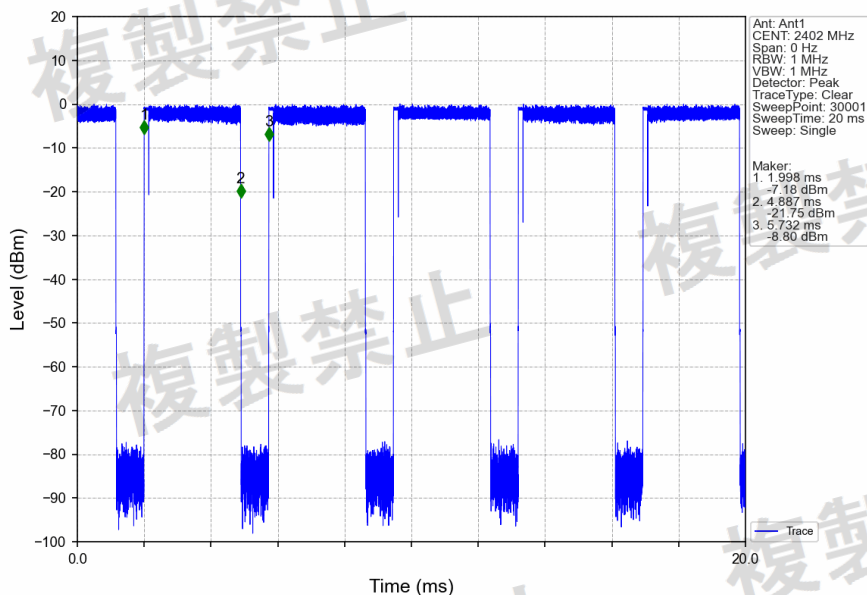
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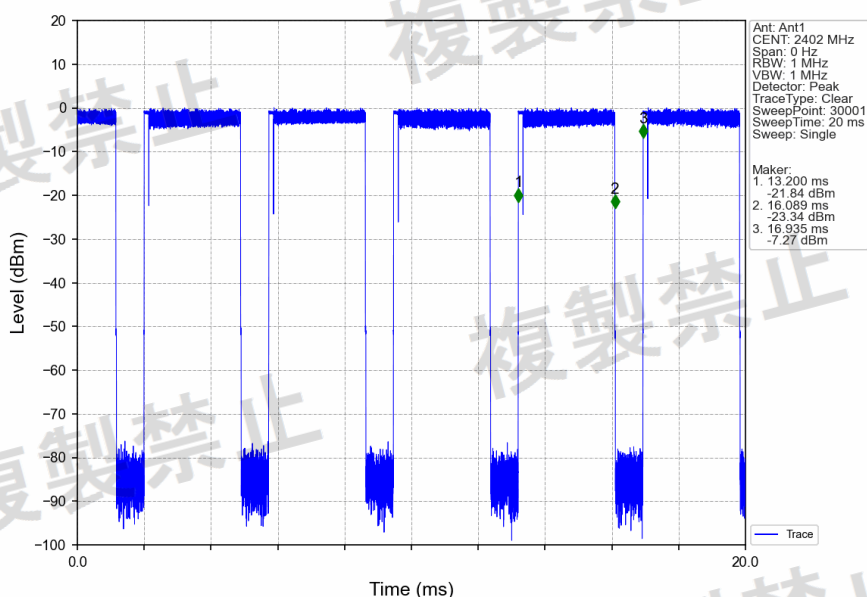
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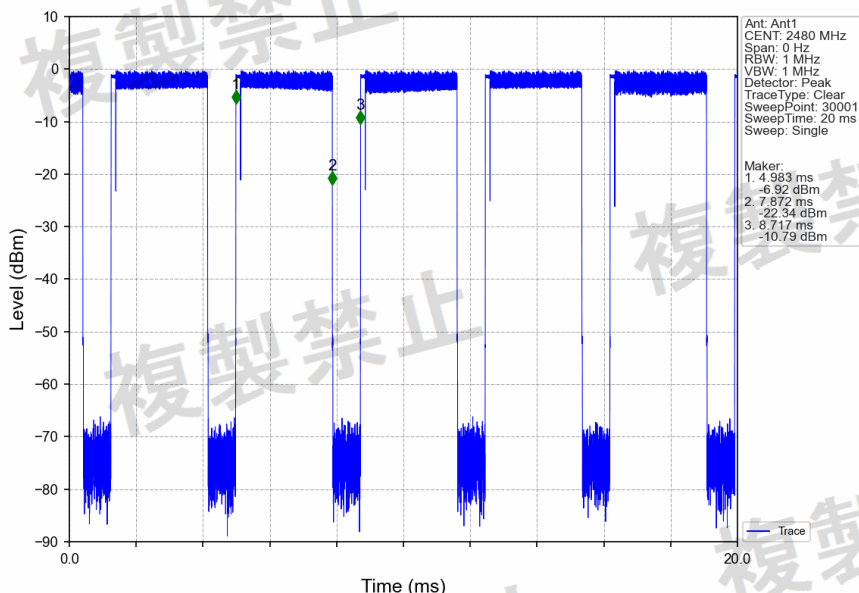
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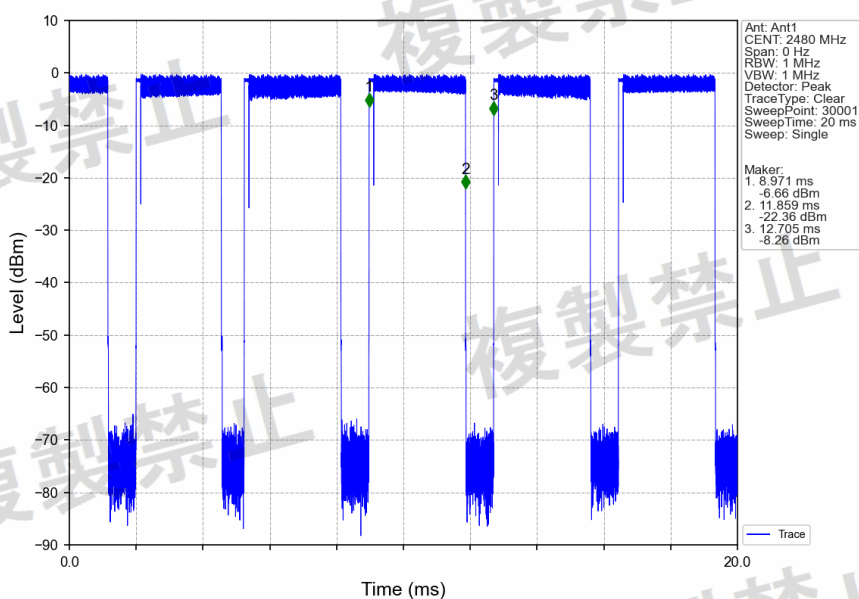
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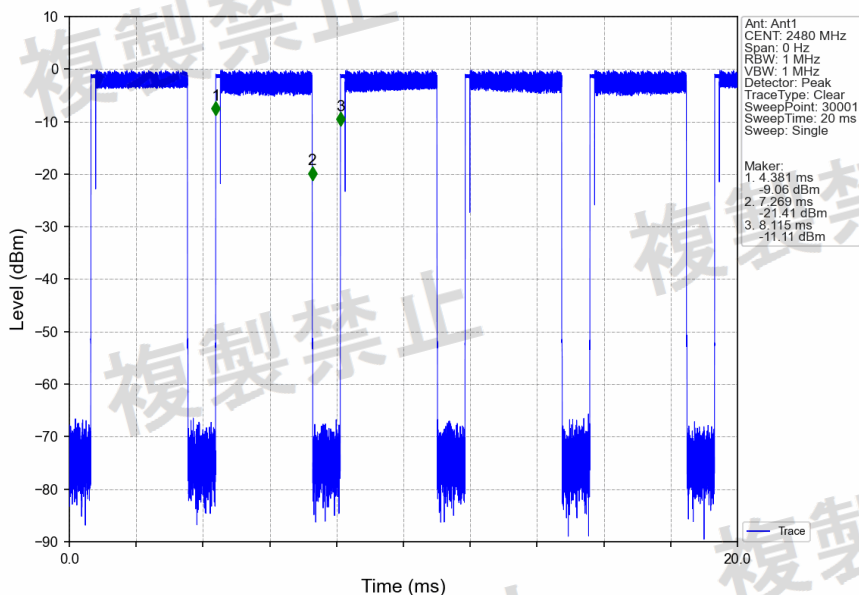
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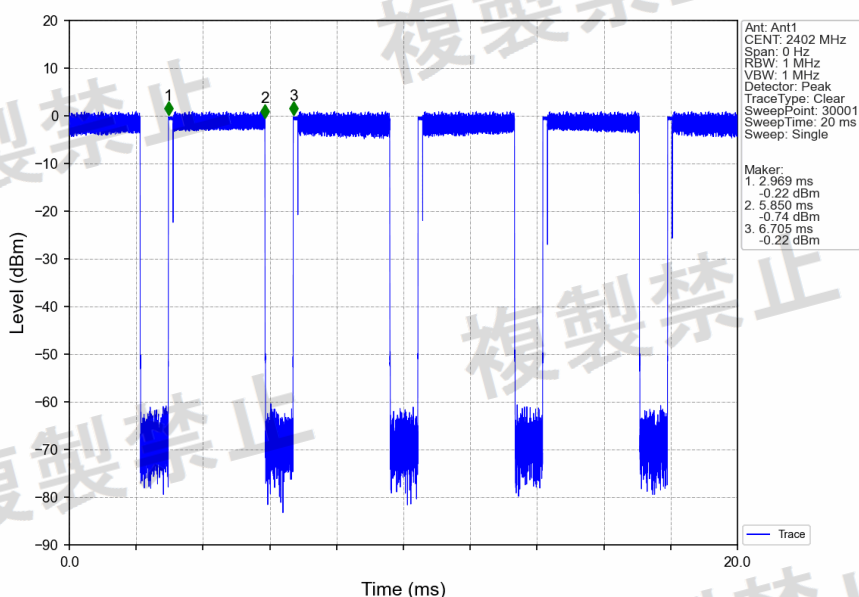
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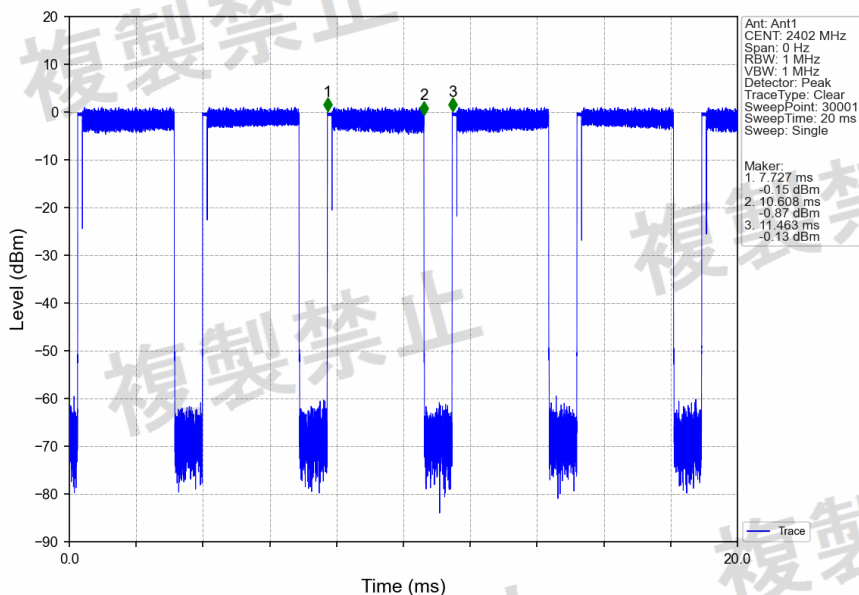
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8DPSK_3DH1_2402MHz_Ant1_NTNV



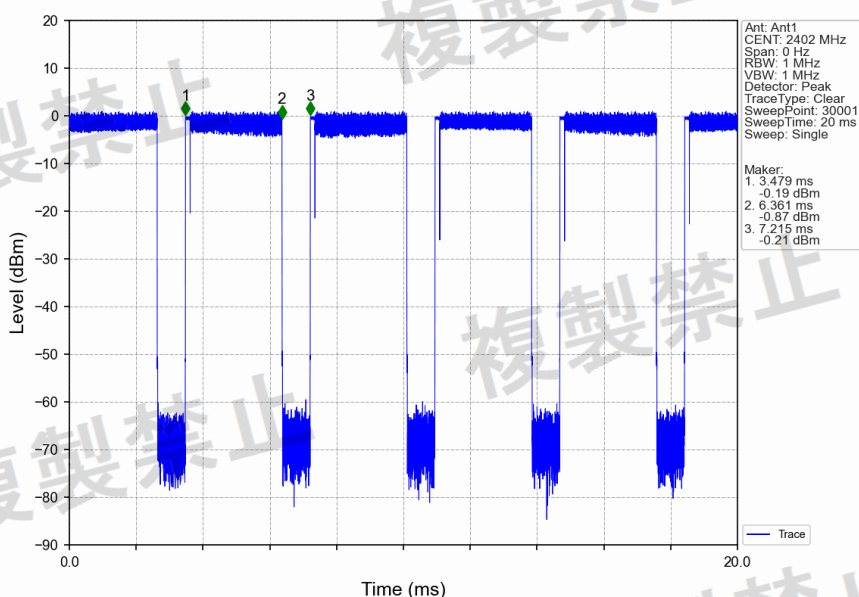
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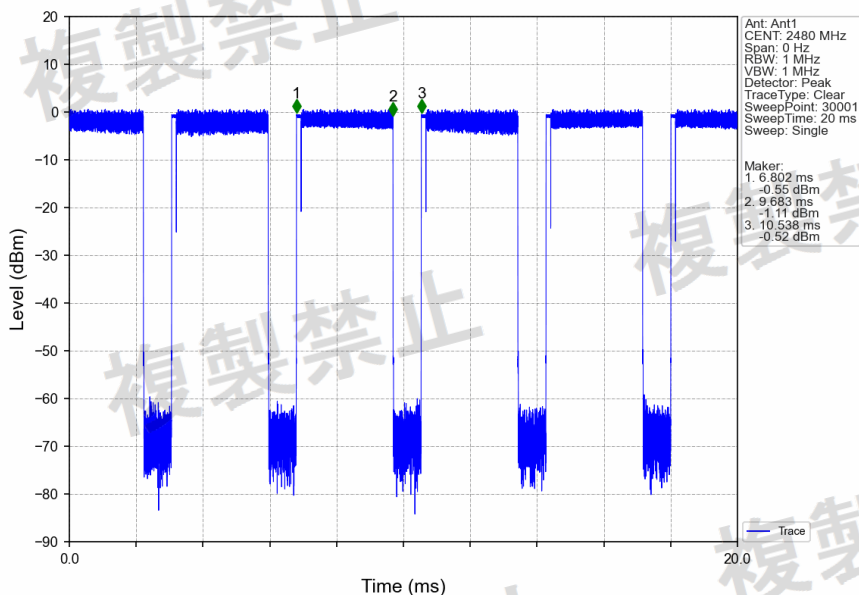
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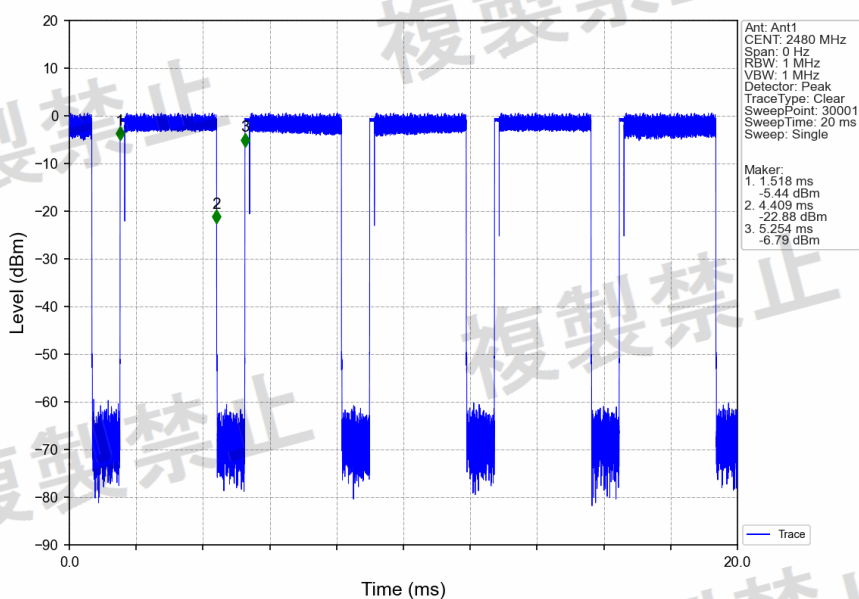
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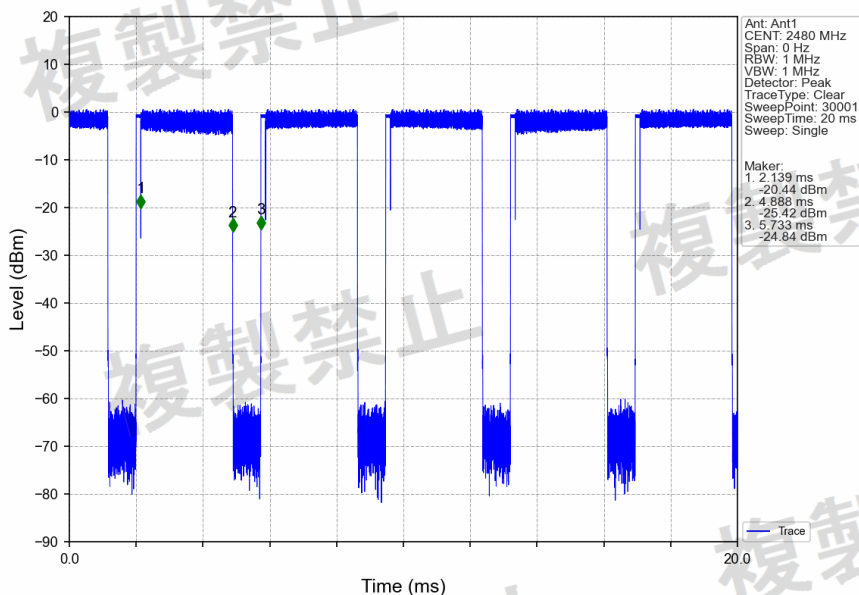
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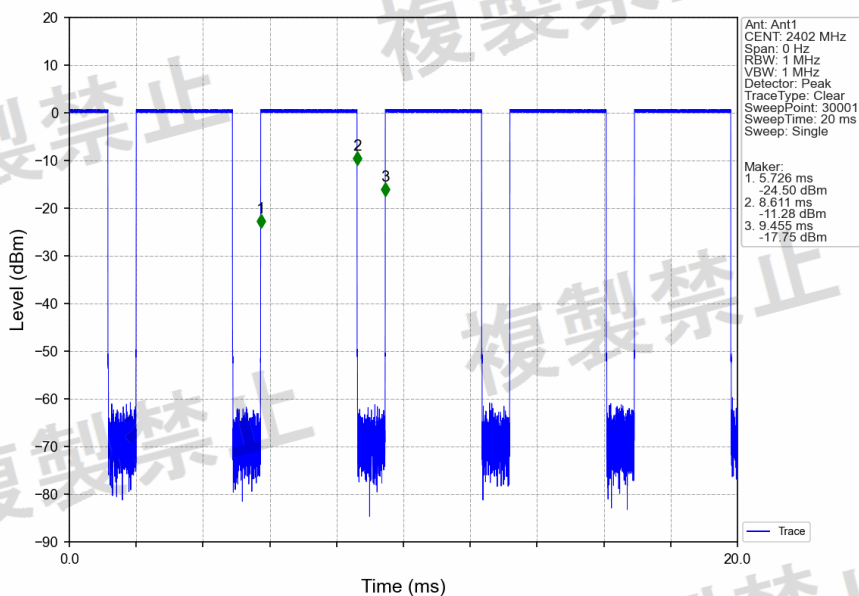
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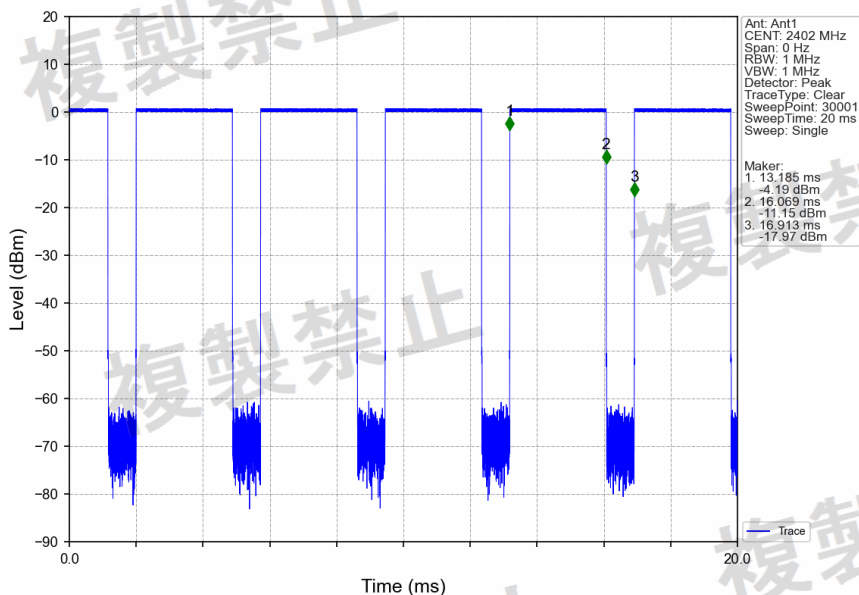
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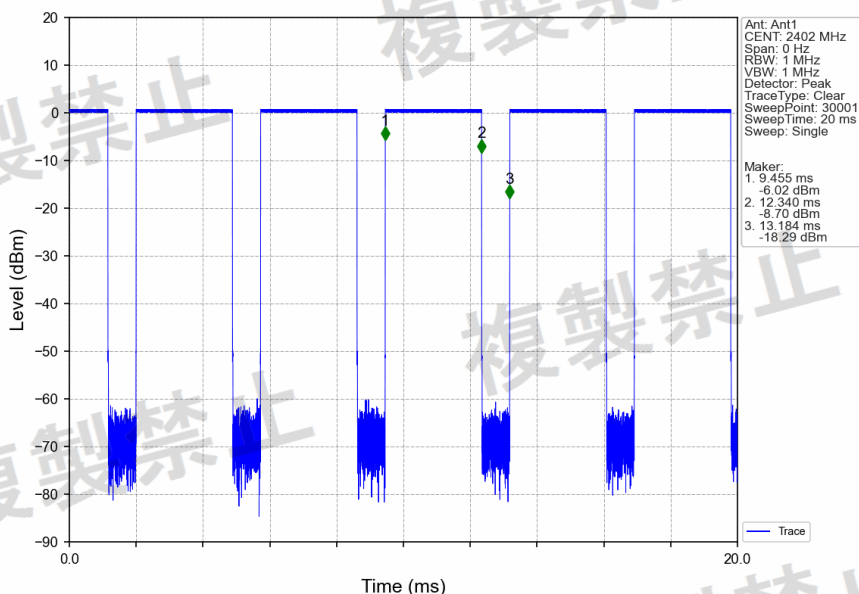
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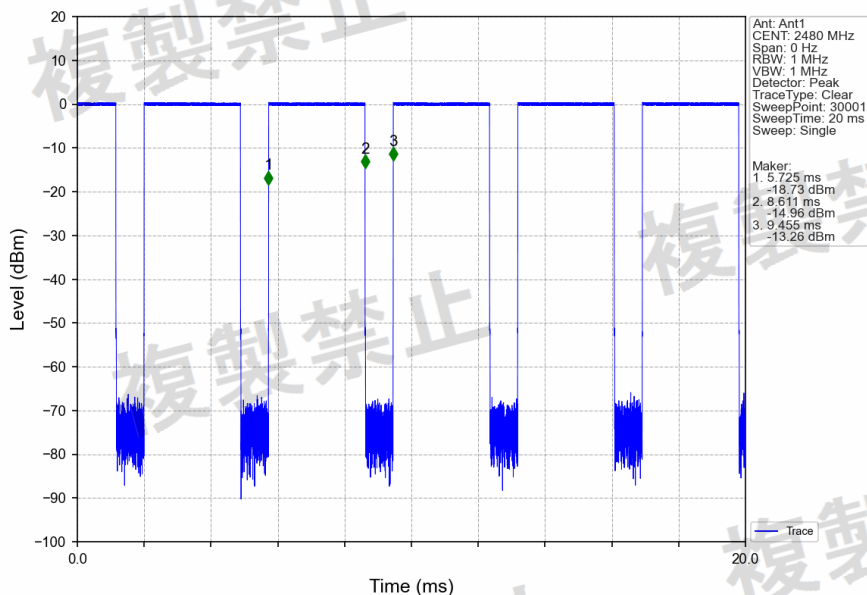
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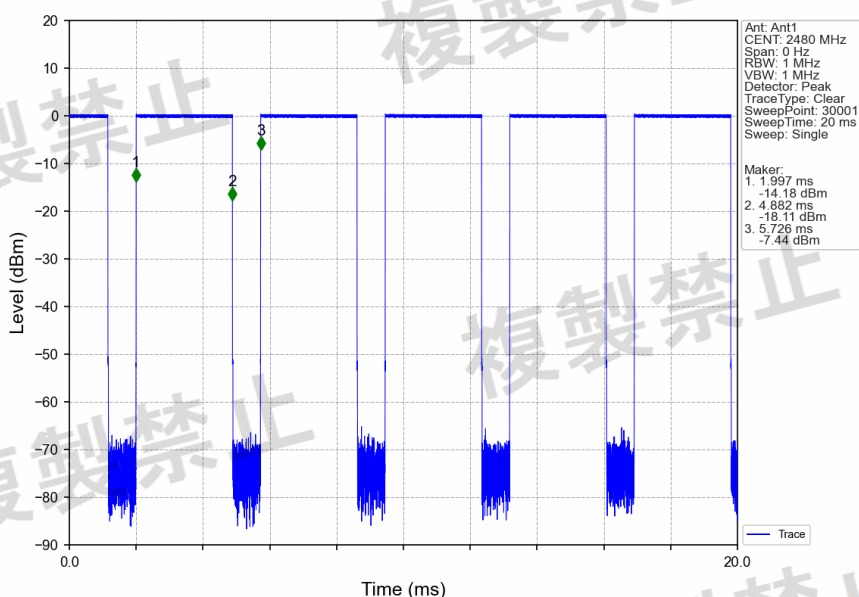
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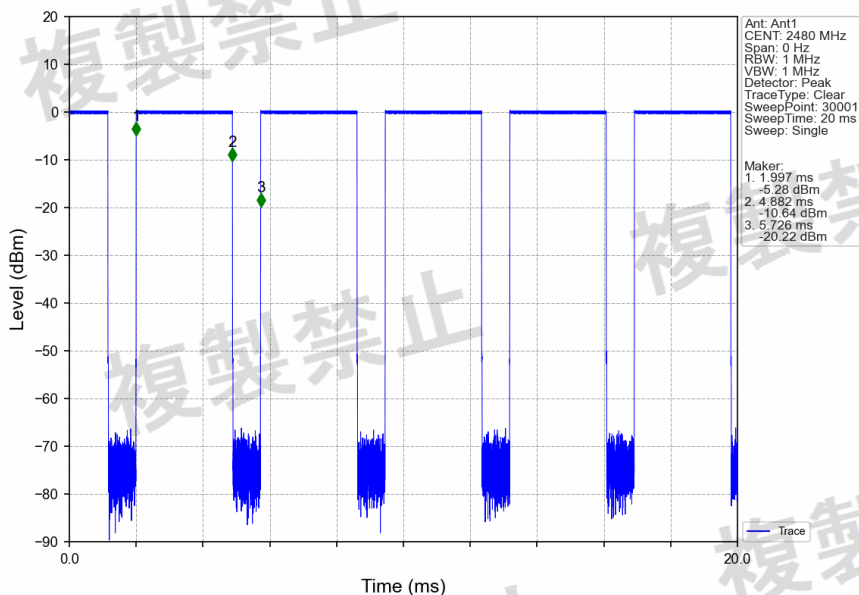
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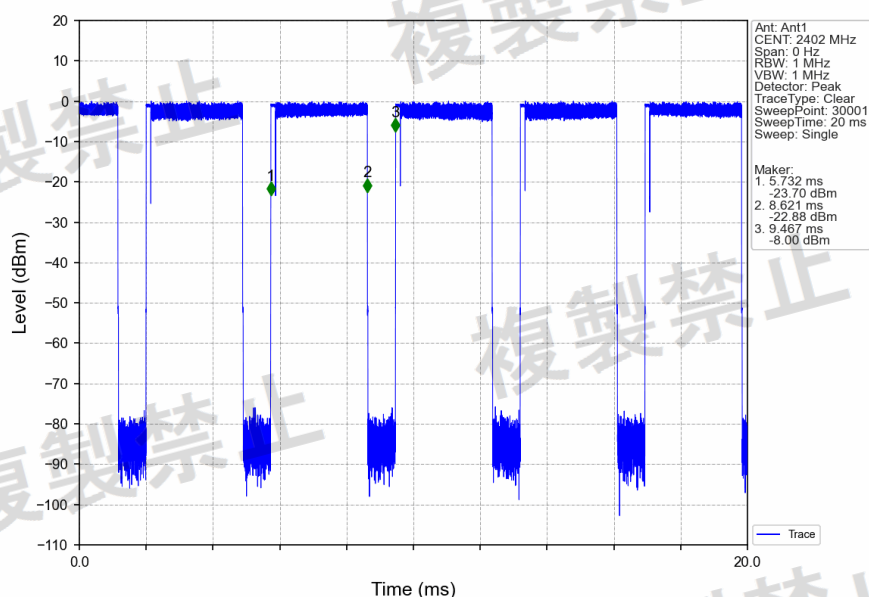
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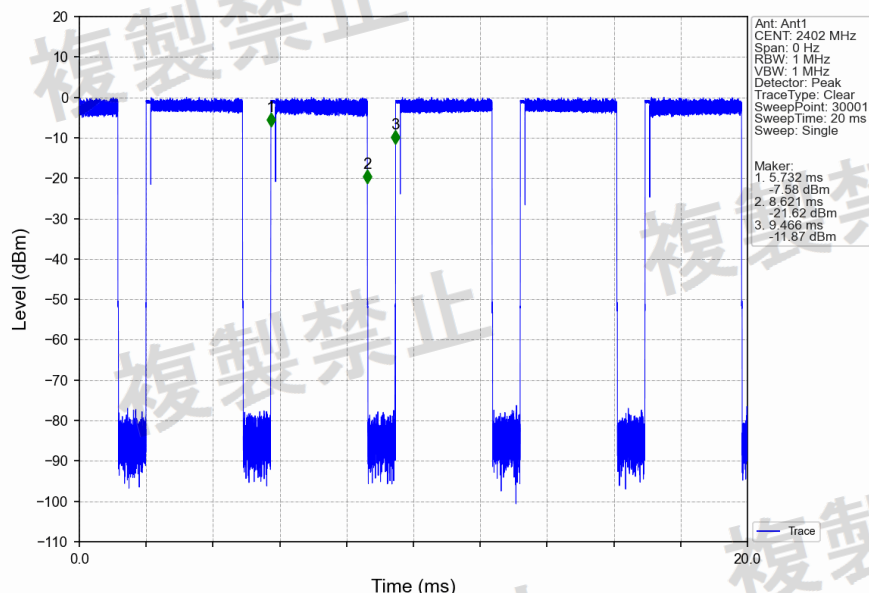
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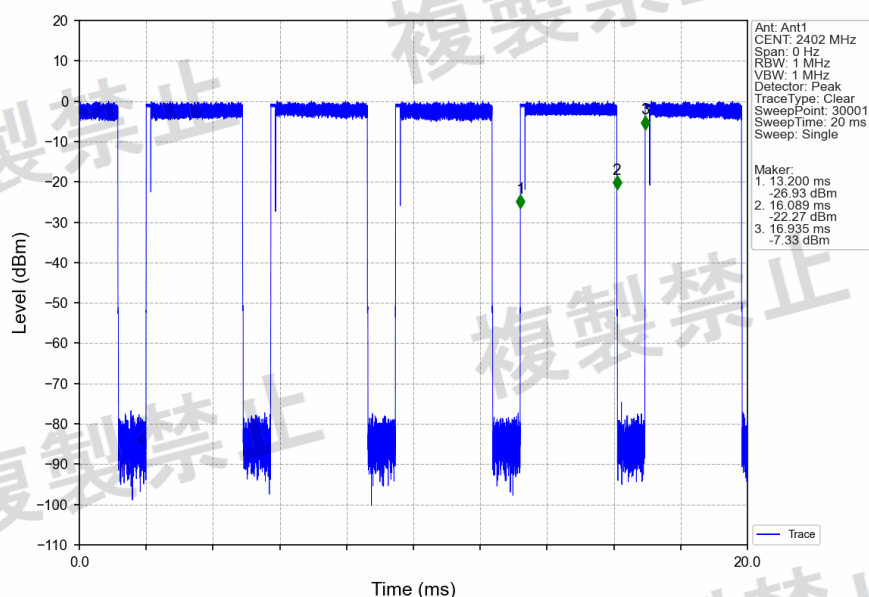
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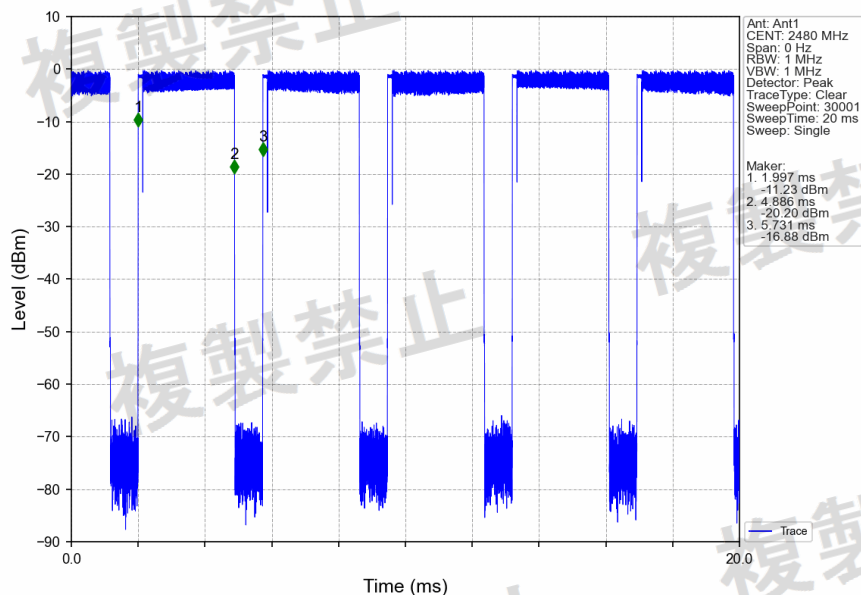
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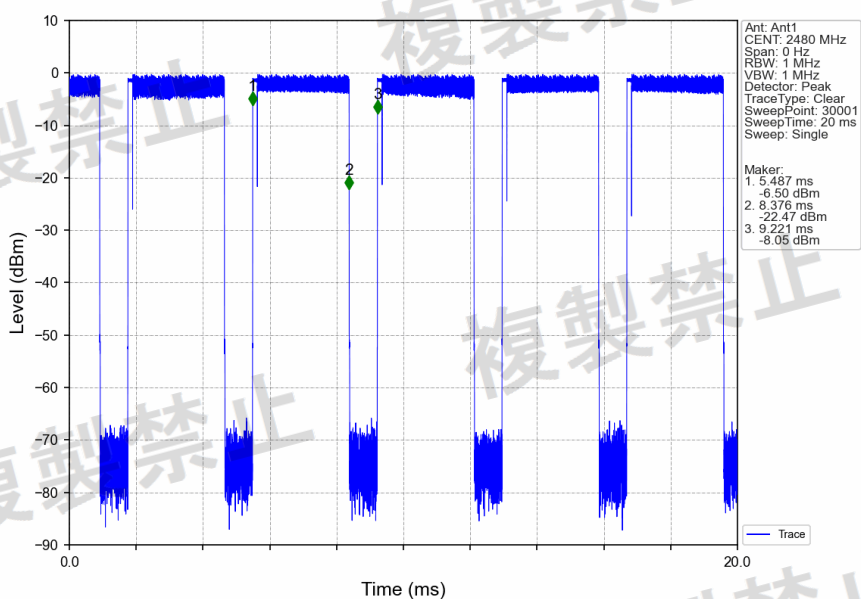
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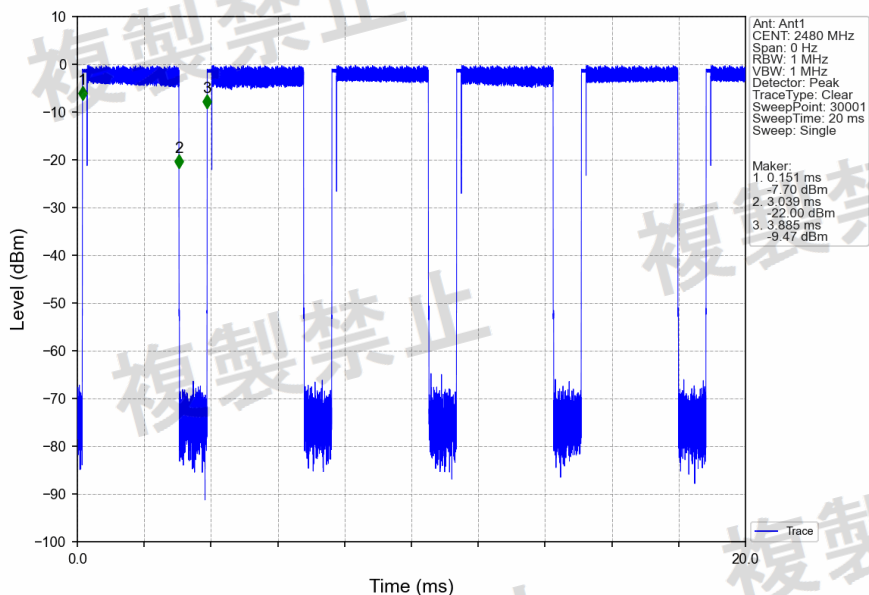
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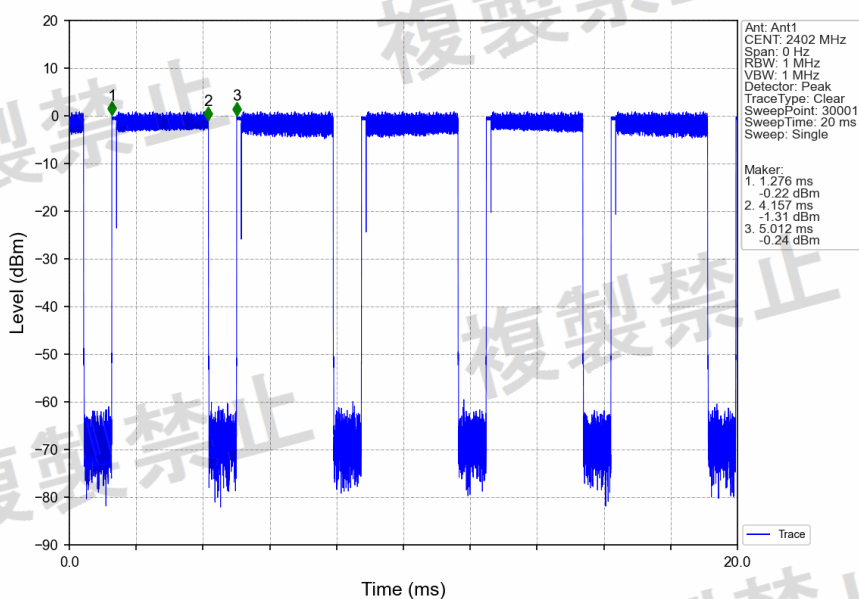
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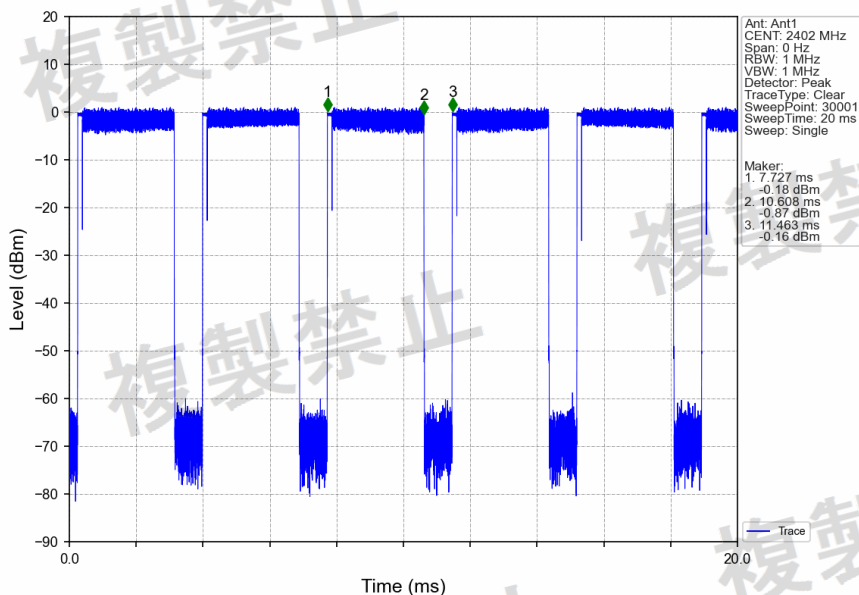
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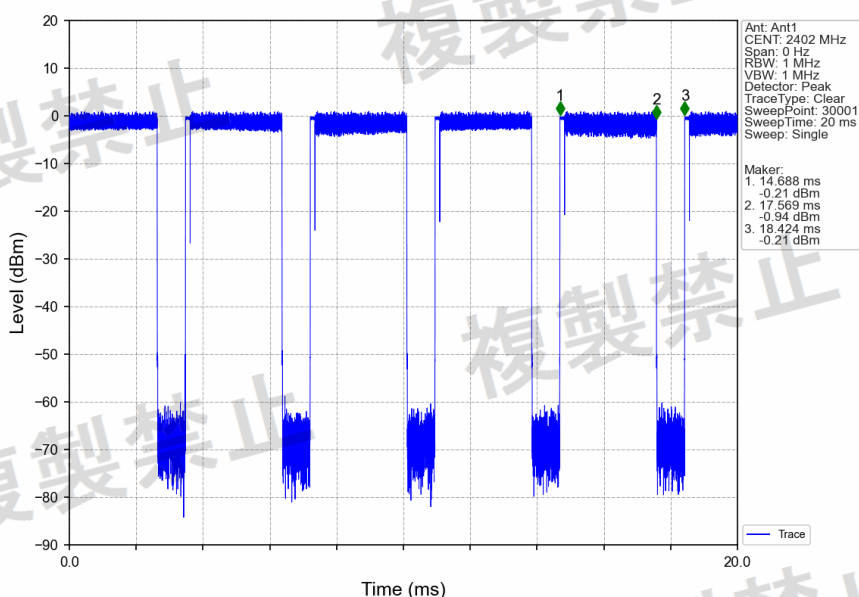
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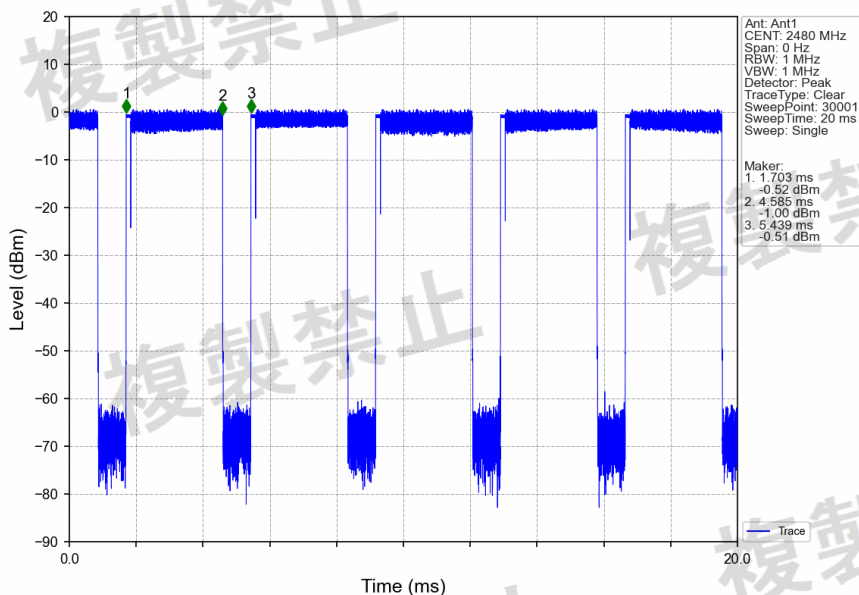
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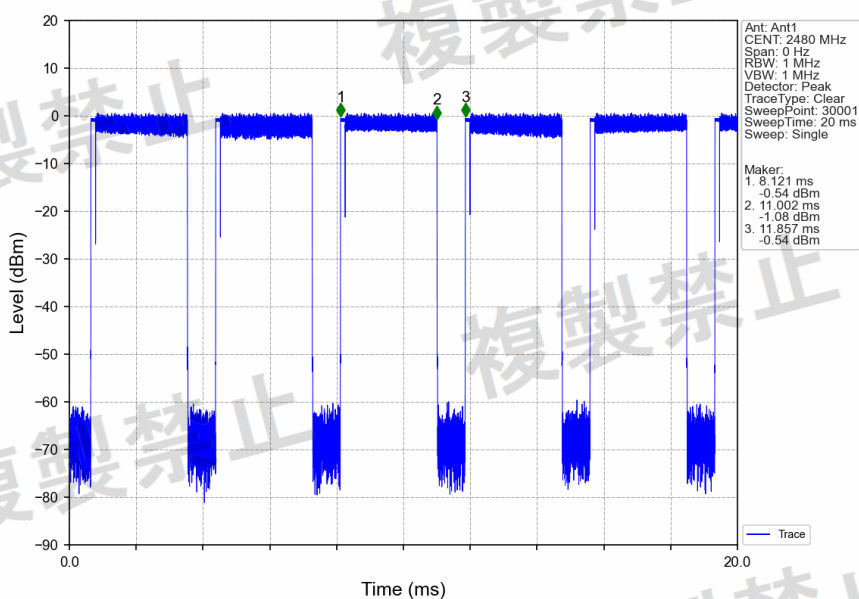
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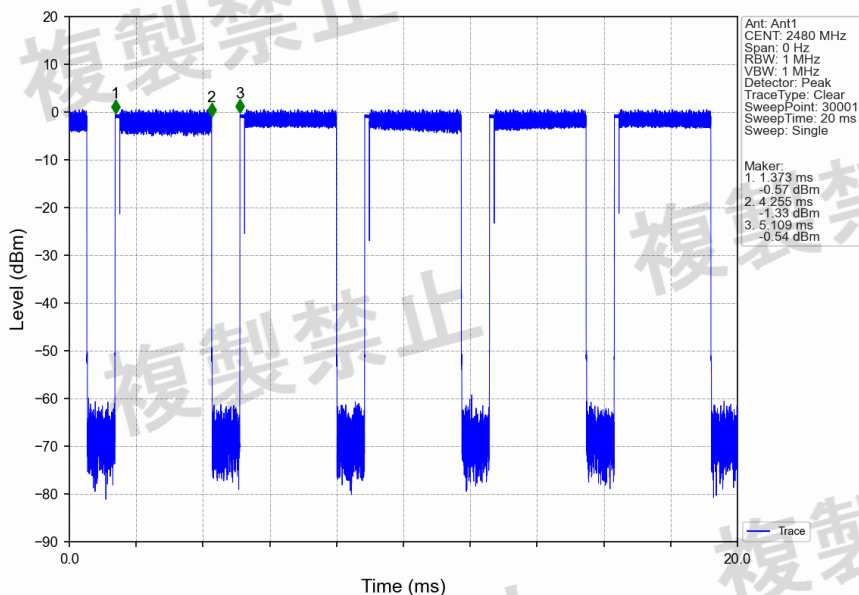
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8DPSK_3DH3_2480MHz_Ant1_NTLV



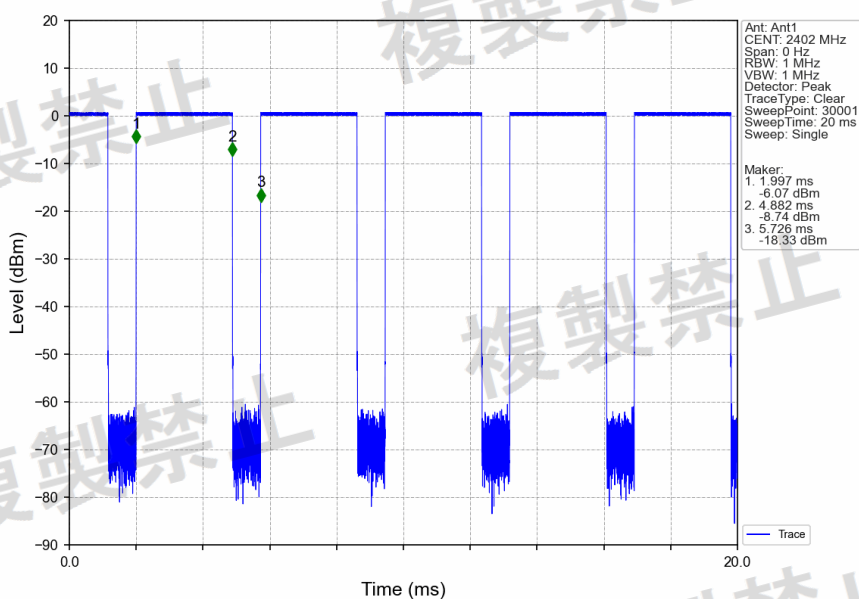
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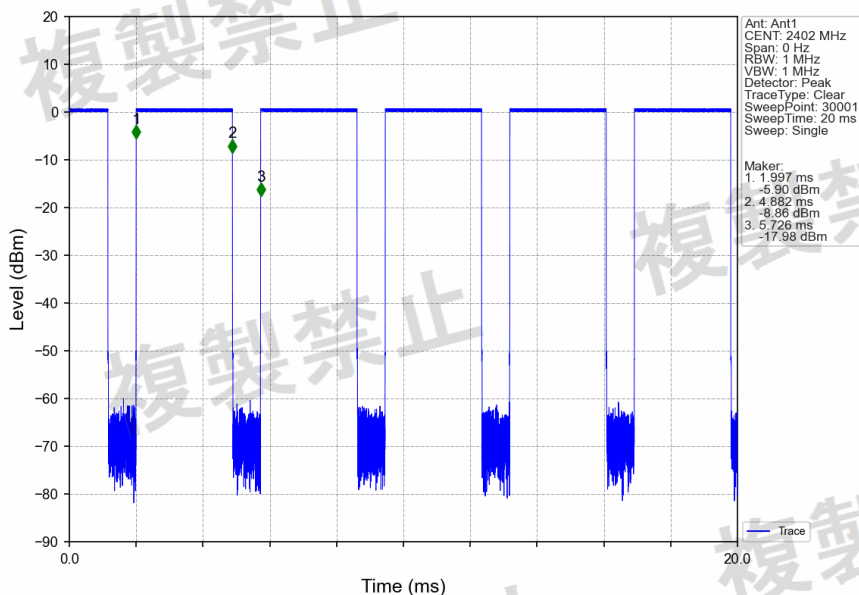
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GFSK_DH1_2402MHz_Ant1_NTHV



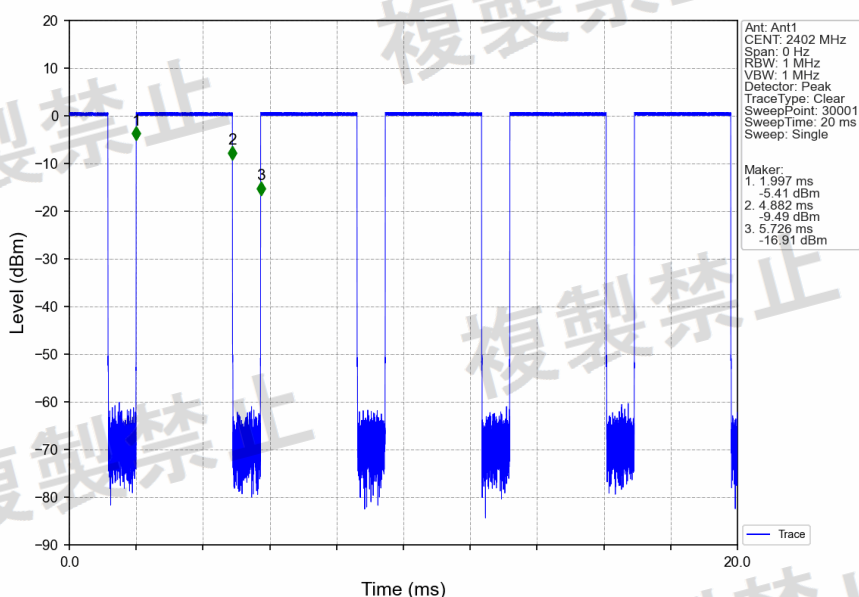
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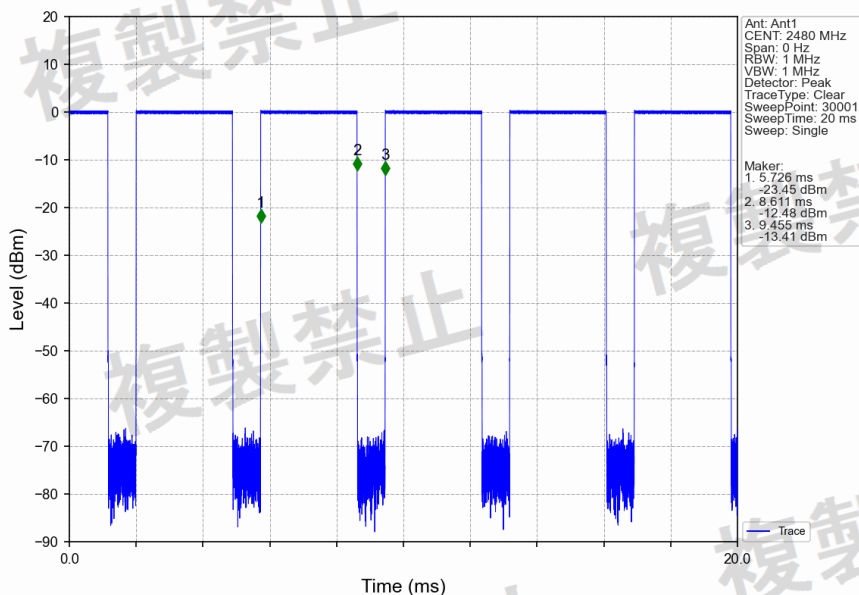
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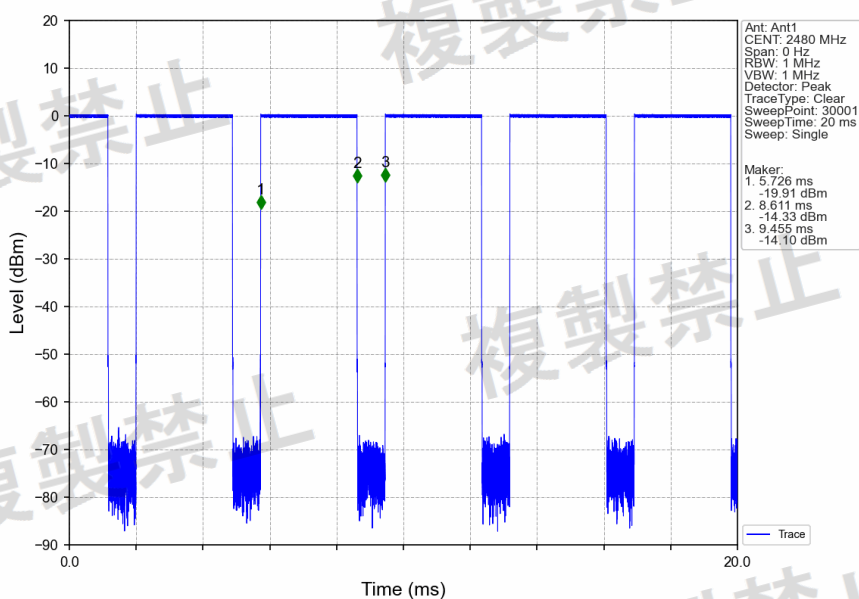
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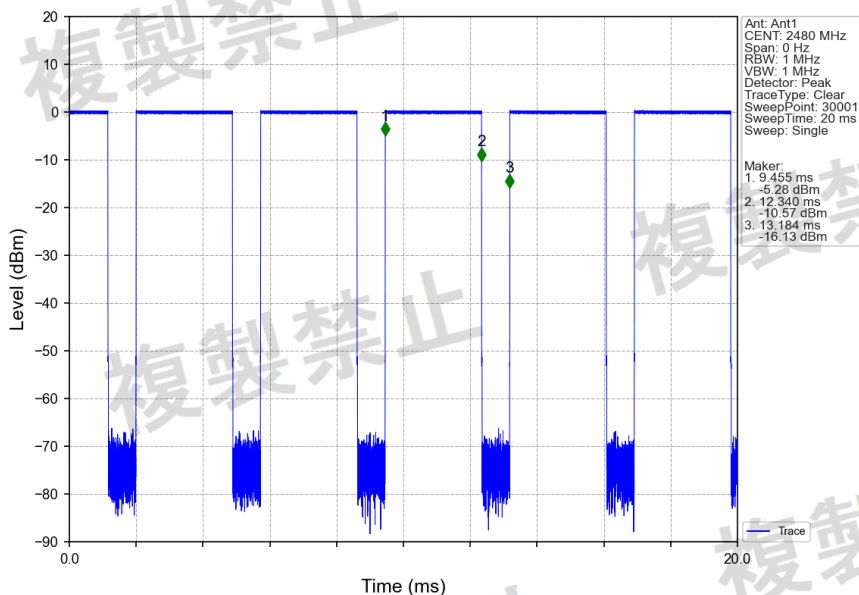
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GFSK_DH3_2480MHz_Ant1_NTHV



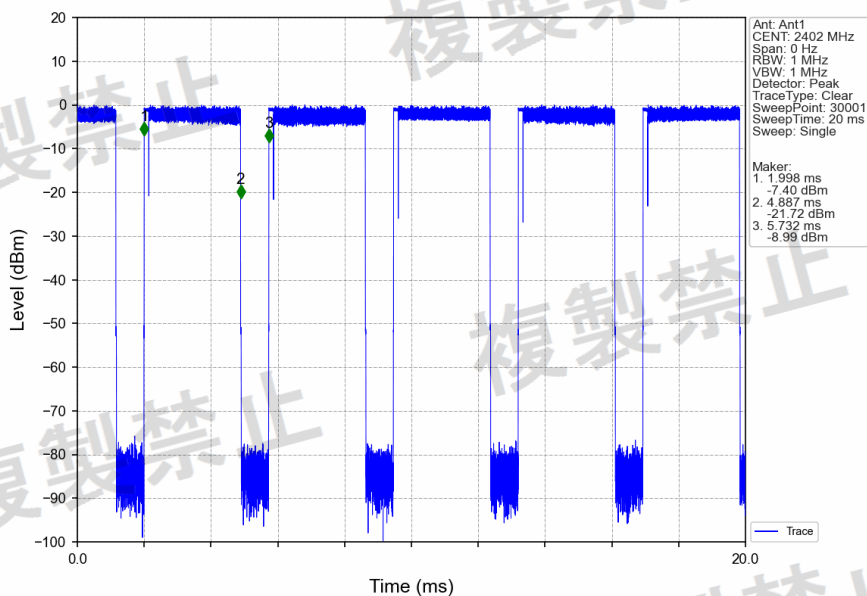
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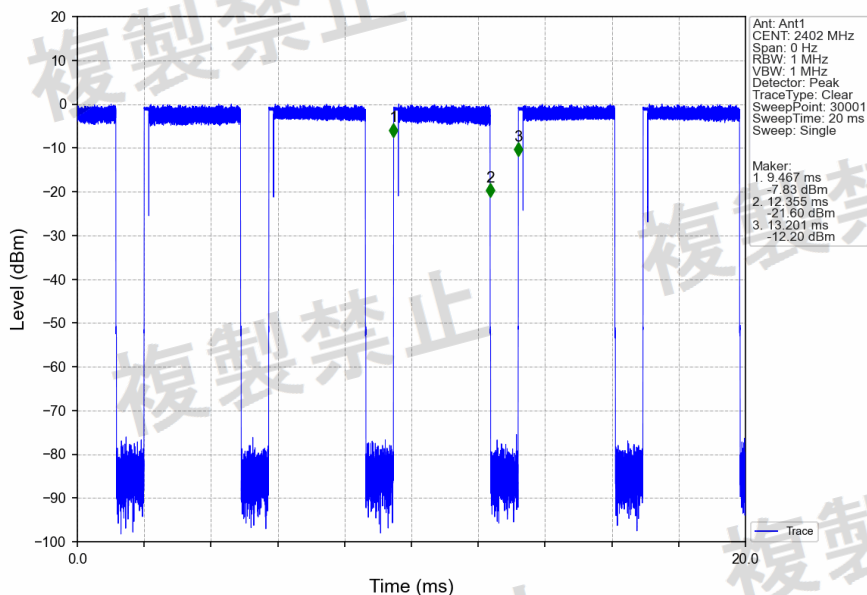
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTHV



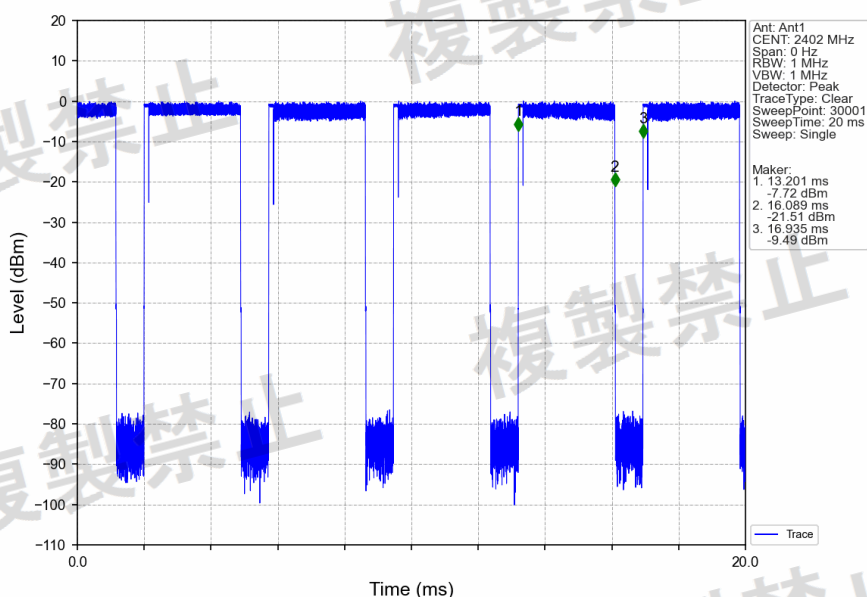
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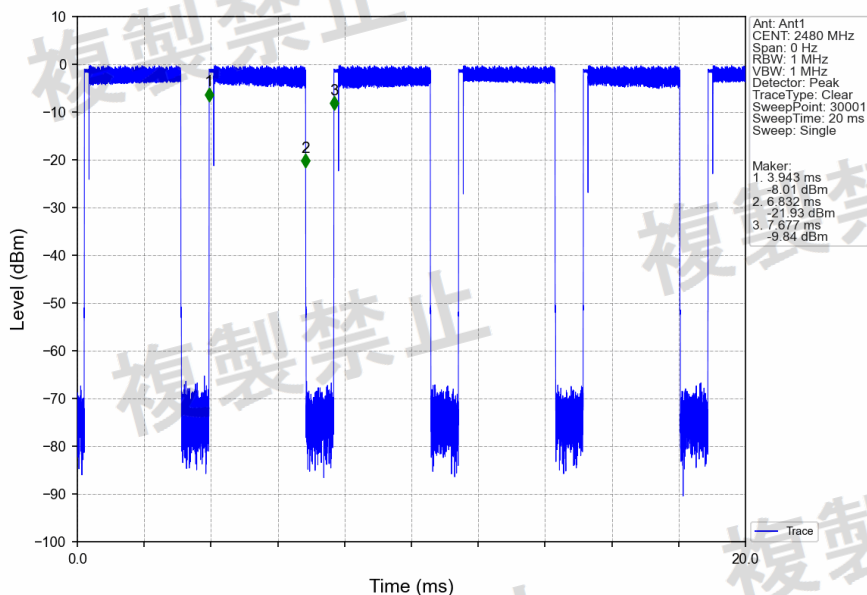
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



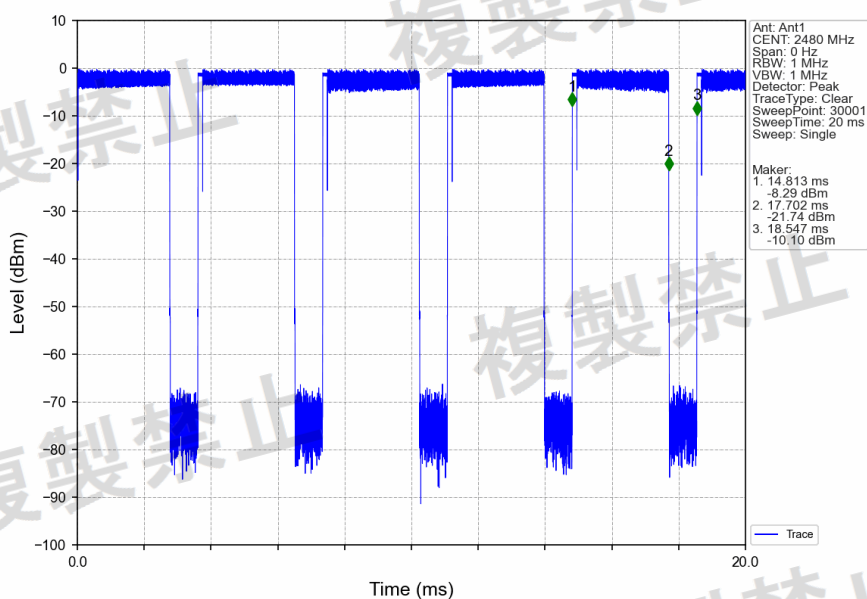
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTHV



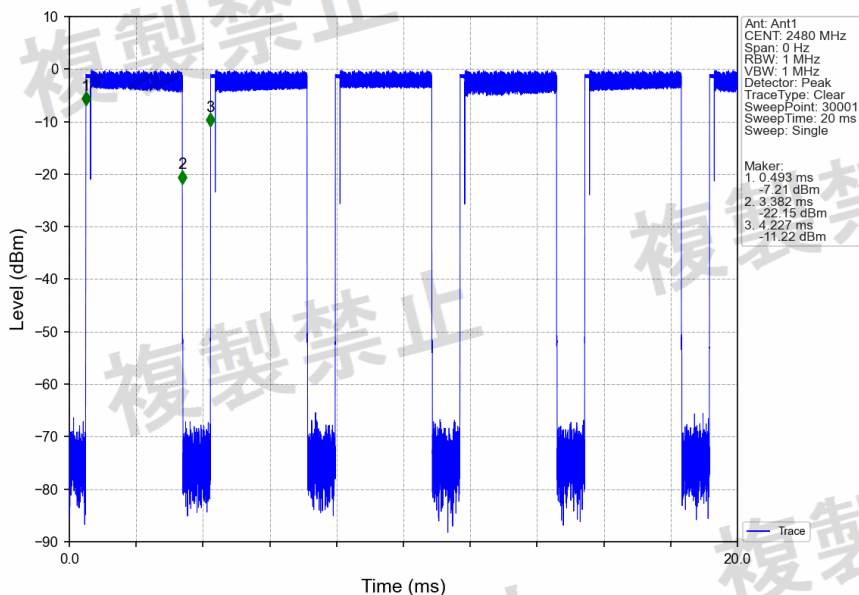
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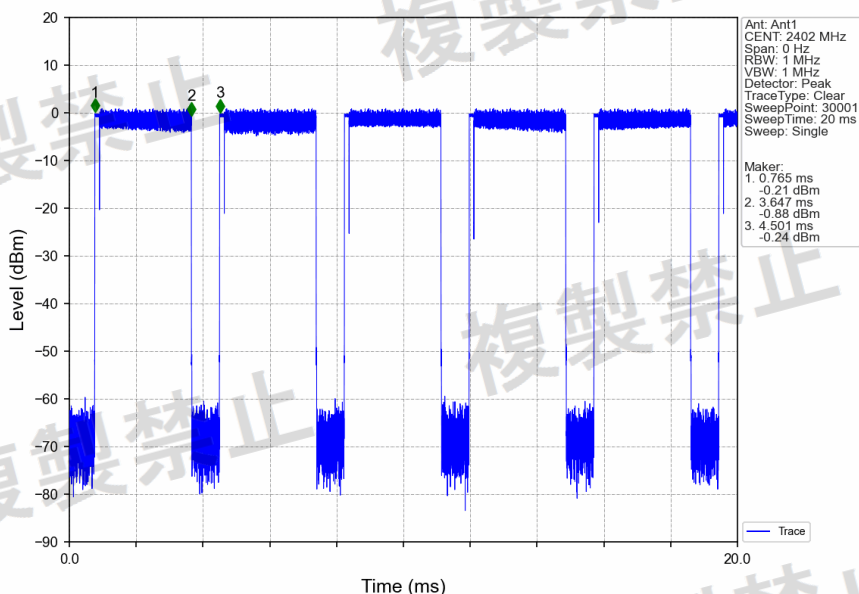
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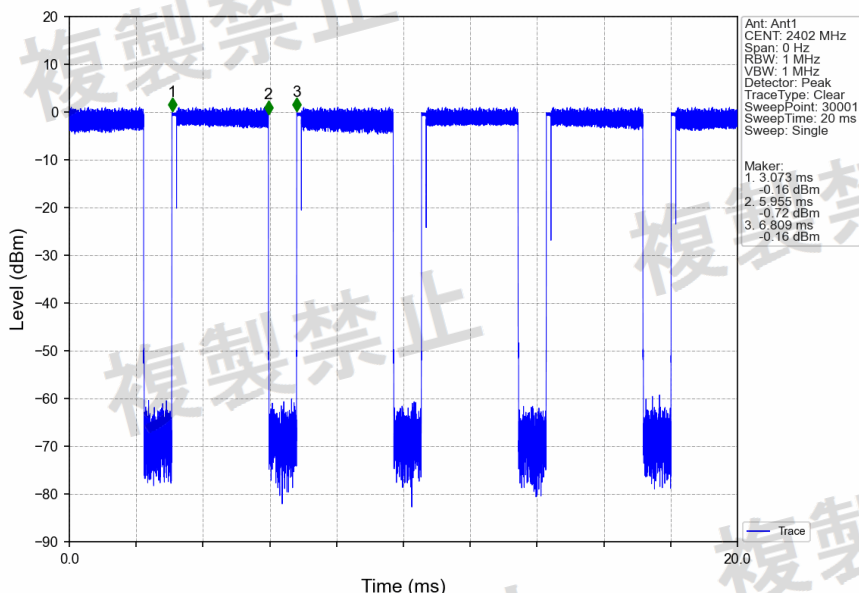
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8DPSK_3DH1_2402MHz_Ant1_NTHV



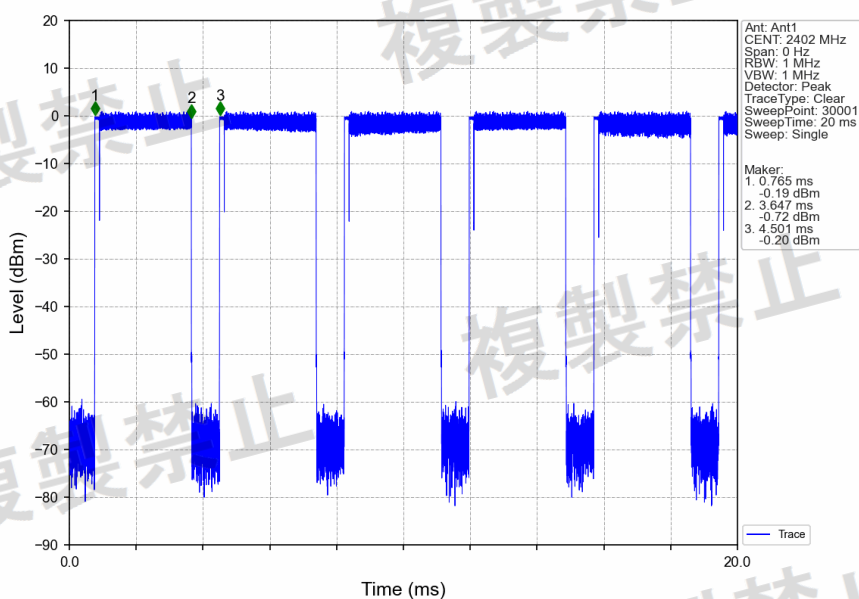
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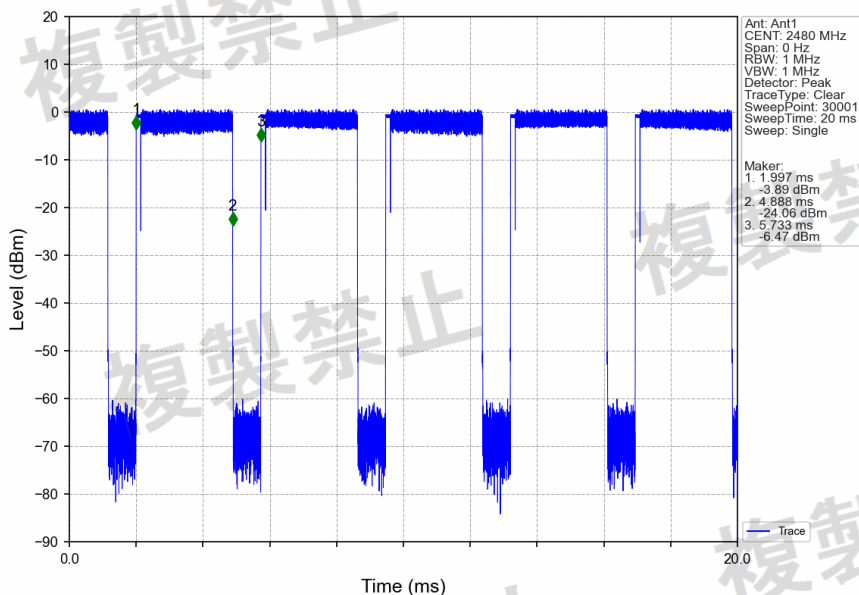
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8DPSK_3DH5_2402MHz_Ant1_NTHV



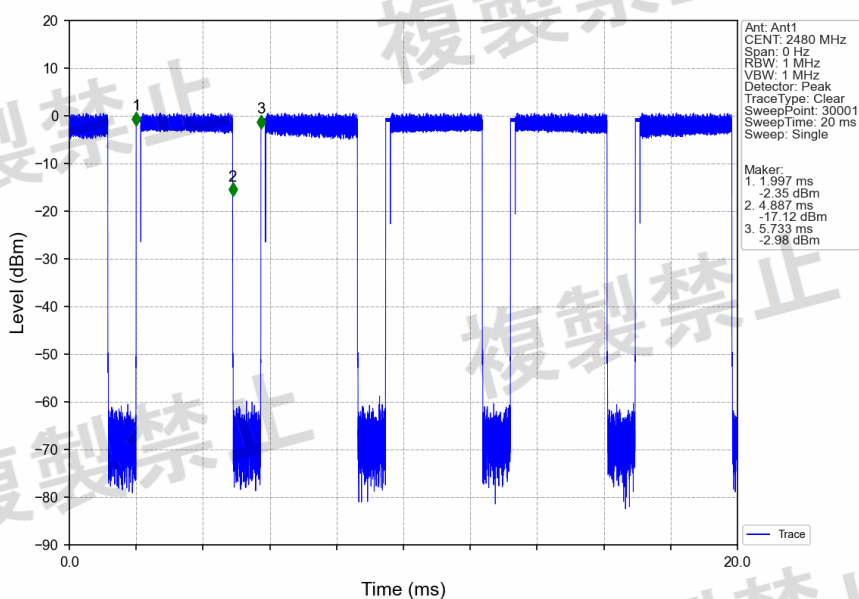
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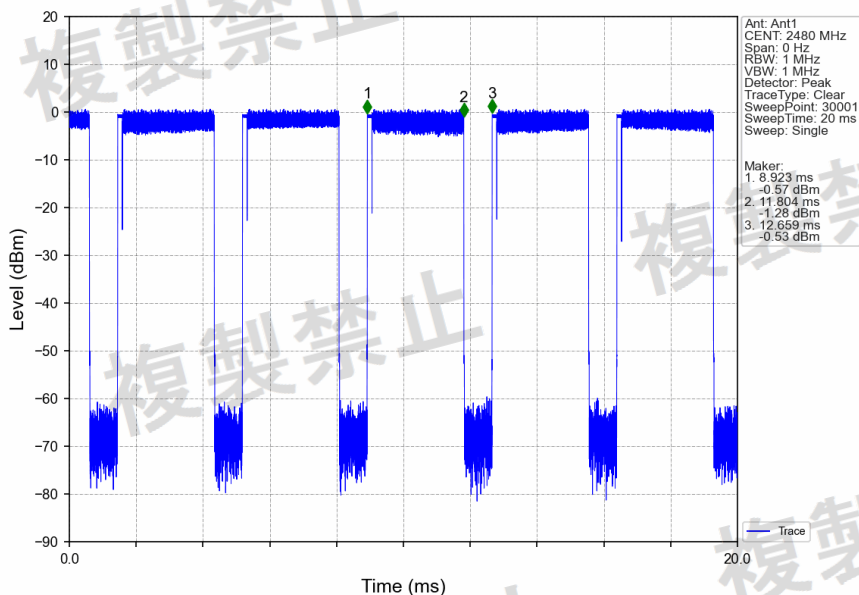
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8DPSK_3DH3_2480MHz_Ant1_NTHV



8DPSK_3DH5_2480MHz_Ant1_NTHV



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6. Spurious Emission Intensity

6.1 Test Result

6.1.1 TxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	2372.5	-55.98	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-39.00	0.126	/	/	25	Pass
				2483.5	2496.5	2495.629	-57.62	0.002	/	/	25	Pass
				2496.5	12500	4985.5	-54.03	0.004	/	/	2.5	Pass
		2480	1	30	2387	2319	-61.94	0.001	/	/	2.5	Pass
				2387	2400	2399.09	-62.12	0.001	/	/	25	Pass
				2483.5	2496.5	2483.63	-53.60	0.004	/	/	25	Pass
				2496.5	12500	6384.5	-60.10	0.001	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2385.5	-61.08	0.001	/	/	2.5	Pass
				2387	2400	2399.987	-30.35	0.923	/	/	25	Pass
				2483.5	2496.5	2483.981	-67.20	0.000	/	/	25	Pass
				2496.5	12500	4804	-62.03	0.001	/	/	2.5	Pass
		2480	1	30	2387	2305.5	-62.32	0.001	/	/	2.5	Pass
				2387	2400	2395.801	-63.14	0.000	/	/	25	Pass
				2483.5	2496.5	2483.565	-53.85	0.004	/	/	25	Pass
				2496.5	12500	3809.5	-59.29	0.001	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2330.5	-56.44	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-30.93	0.807	/	/	25	Pass
				2483.5	2496.5	2496.409	-57.98	0.002	/	/	25	Pass
				2496.5	12500	9721.5	-54.17	0.004	/	/	2.5	Pass
		2480	1	30	2387	2381	-55.40	0.003	/	/	2.5	Pass
				2387	2400	2396.503	-56.98	0.002	/	/	25	Pass
				2483.5	2496.5	2484.098	-52.54	0.006	/	/	25	Pass
				2496.5	12500	3818	-53.42	0.005	/	/	2.5	Pass

6.1.2 TxSe_NTLV

NTLV							
Mode	TX	Freq.	ANT	Freq. Range	Marker	Limit	Verdict



	Type	(MHz)		Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)	(uW /MHz)	
GFSK	SISO	2402	1	30	2387	2386	-55.77	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-38.49	0.142	/	/	25	Pass
				2483.5	2496.5	2489.038	-57.91	0.002	/	/	25	Pass
				2496.5	12500	5022.5	-53.93	0.004	/	/	2.5	Pass
		2480	1	30	2387	2348	-61.34	0.001	/	/	2.5	Pass
				2387	2400	2399.935	-61.66	0.001	/	/	25	Pass
				2483.5	2496.5	2483.63	-53.64	0.004	/	/	25	Pass
				2496.5	12500	5165	-60.04	0.001	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2386	-61.02	0.001	/	/	2.5	Pass
				2387	2400	2399.987	-30.53	0.885	/	/	25	Pass
				2483.5	2496.5	2486.139	-67.33	0.000	/	/	25	Pass
				2496.5	12500	4804	-62.97	0.001	/	/	2.5	Pass
		2480	1	30	2387	2080.5	-62.21	0.001	/	/	2.5	Pass
				2387	2400	2396.867	-62.37	0.001	/	/	25	Pass
				2483.5	2496.5	2484.241	-54.77	0.003	/	/	25	Pass
				2496.5	12500	5057	-60.04	0.001	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2360.5	-55.75	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-31.10	0.776	/	/	25	Pass
				2483.5	2496.5	2491.976	-57.41	0.002	/	/	25	Pass
				2496.5	12500	8862.5	-54.15	0.004	/	/	2.5	Pass
		2480	1	30	2387	2076	-56.11	0.002	/	/	2.5	Pass
				2387	2400	2387	-57.57	0.002	/	/	25	Pass
				2483.5	2496.5	2483.76	-52.55	0.006	/	/	25	Pass
				2496.5	12500	5027.5	-53.18	0.005	/	/	2.5	Pass

6.1.3 TxSe_NTHV

NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	2386	-55.91	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-38.78	0.132	/	/	25	Pass
				2483.5	2496.5	2490.663	-58.13	0.002	/	/	25	Pass
				2496.5	12500	3735	-54.53	0.004	/	/	2.5	Pass
		2480	1	30	2387	2375.5	-61.74	0.001	/	/	2.5	Pass
				2387	2400	2399.87	-61.94	0.001	/	/	25	Pass

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				2483.5	2496.5	2483.695	-52.55	0.006	/	/	25	Pass
				2496.5	12500	4959.5	-59.68	0.001	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2384.5	-62.94	0.001	/	/	2.5	Pass
				2387	2400	2399.987	-30.34	0.925	/	/	25	Pass
				2483.5	2496.5	2492.34	-68.43	0.000	/	/	25	Pass
				2496.5	12500	4804	-63.12	0.000	/	/	2.5	Pass
		2480	1	30	2387	2320.5	-61.93	0.001	/	/	2.5	Pass
				2387	2400	2396.425	-62.63	0.001	/	/	25	Pass
				2483.5	2496.5	2483.968	-54.91	0.003	/	/	25	Pass
				2496.5	12500	5078.5	-59.89	0.001	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2386	-55.40	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-31.17	0.764	/	/	25	Pass
				2483.5	2496.5	2493.016	-57.18	0.002	/	/	25	Pass
				2496.5	12500	4904.5	-53.83	0.004	/	/	2.5	Pass
		2480	1	30	2387	2205.5	-55.95	0.003	/	/	2.5	Pass
				2387	2400	2399.311	-57.59	0.002	/	/	25	Pass
				2483.5	2496.5	2483.864	-53.02	0.005	/	/	25	Pass
				2496.5	12500	5100.5	-53.93	0.004	/	/	2.5	Pass

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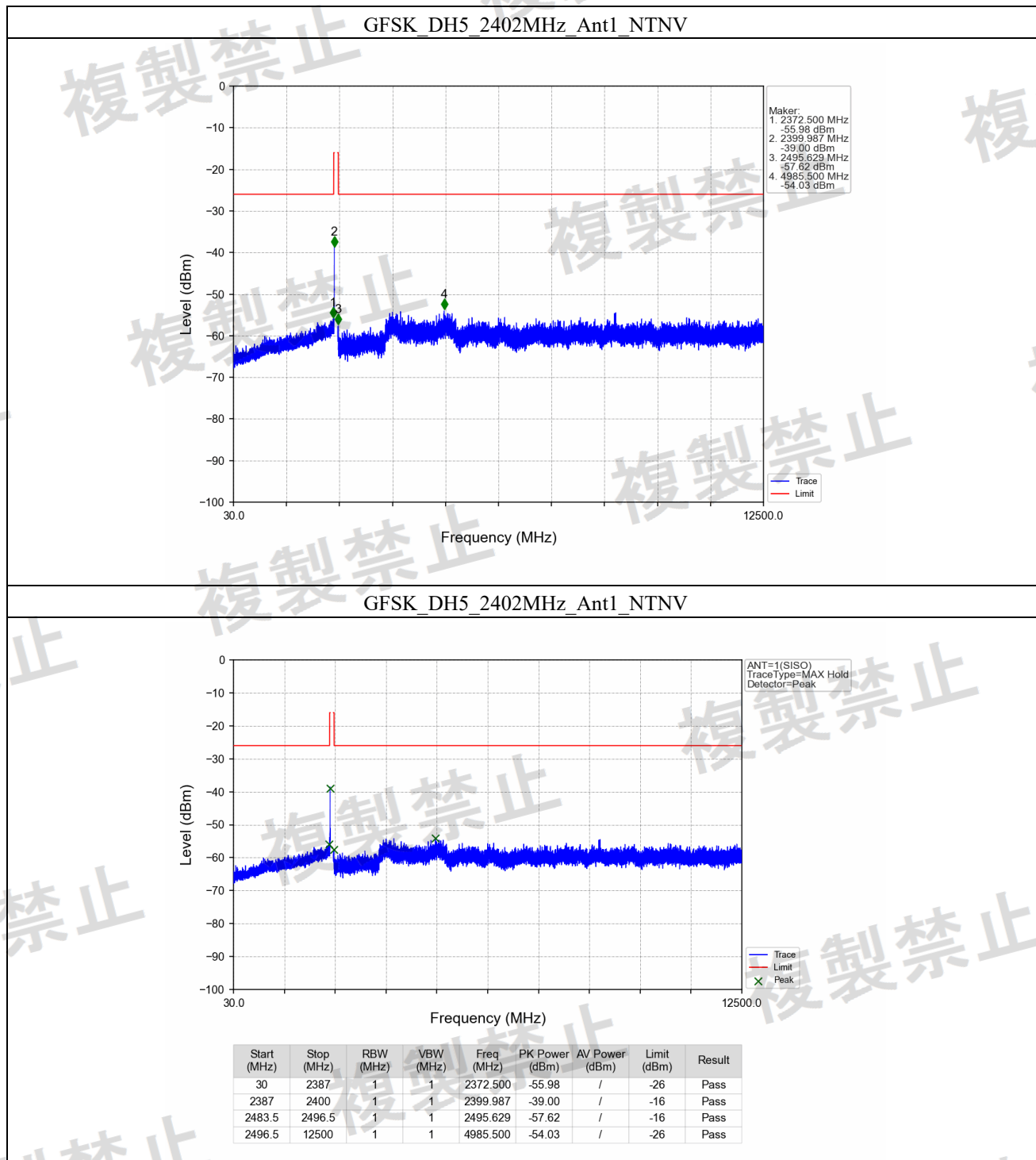
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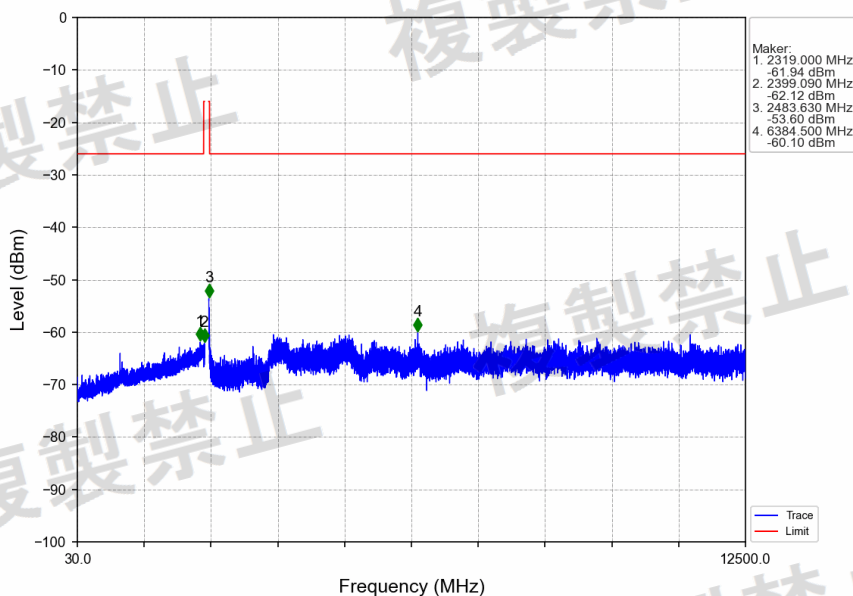
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6.2 Test Graph

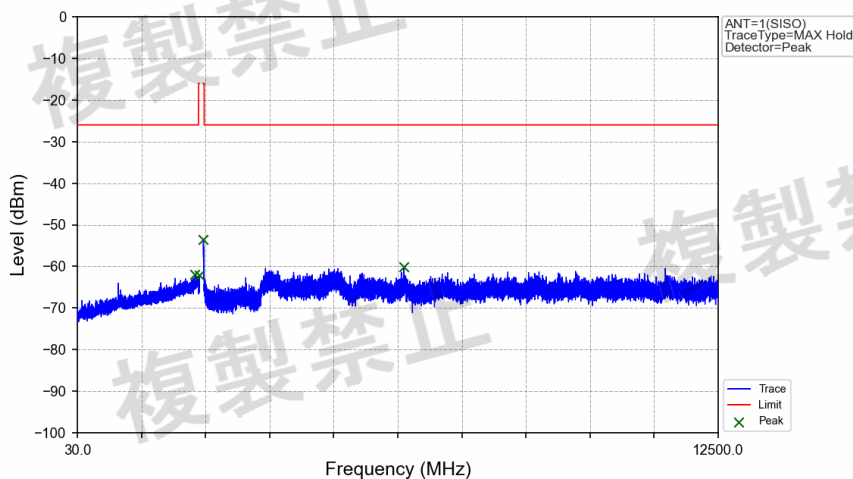
6.2.1 TxSe_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

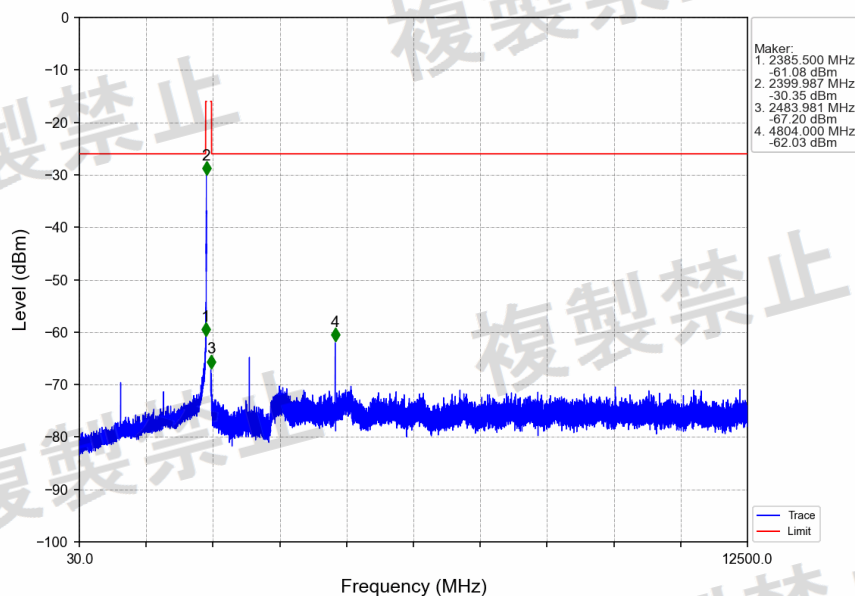


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2319.000	-61.94	/	-26	Pass
2387	2400	1	1	2399.090	-62.12	/	-16	Pass
2483.5	2496.5	1	1	2483.630	-53.60	/	-16	Pass
2496.5	12500	1	1	6384.500	-60.10	/	-26	Pass

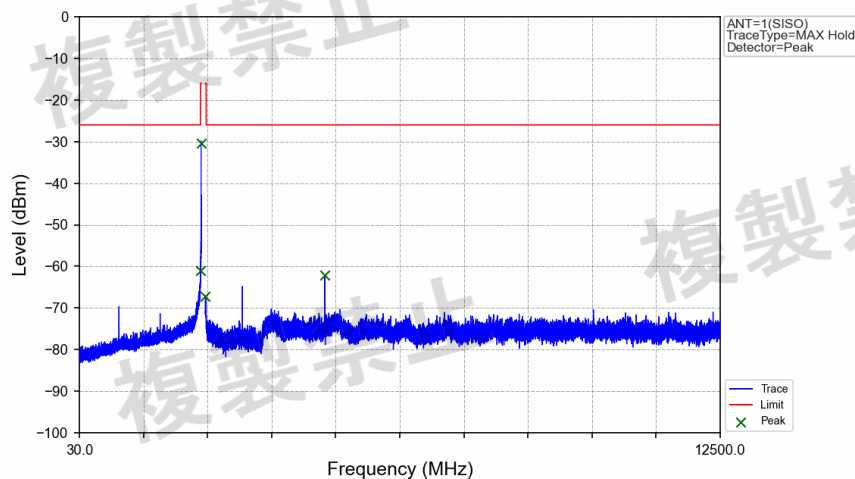
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

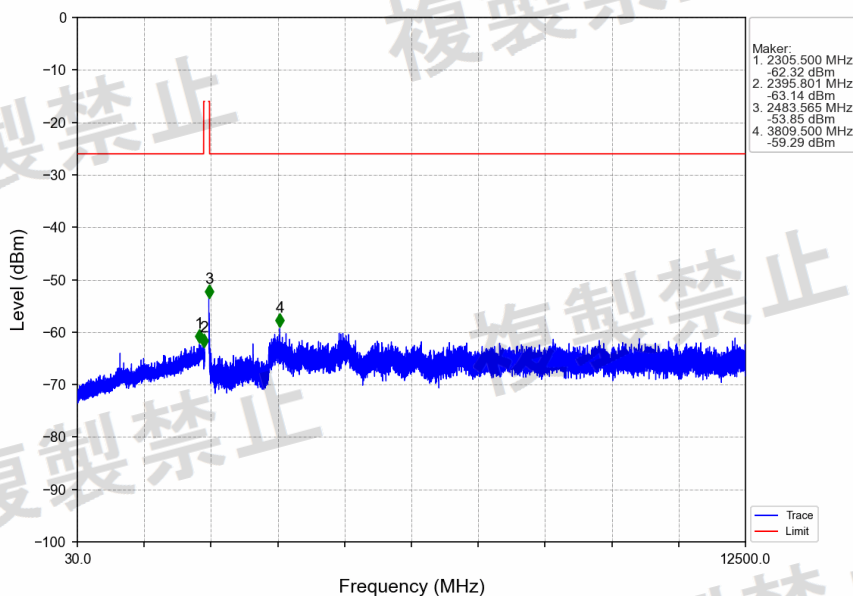


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.500	-61.08	/	-26	Pass
2387	2400	1	1	2399.987	-30.35	/	-16	Pass
2483.5	2496.5	1	1	2483.981	-67.20	/	-16	Pass
2496.5	12500	1	1	4804.000	-62.03	/	-26	Pass

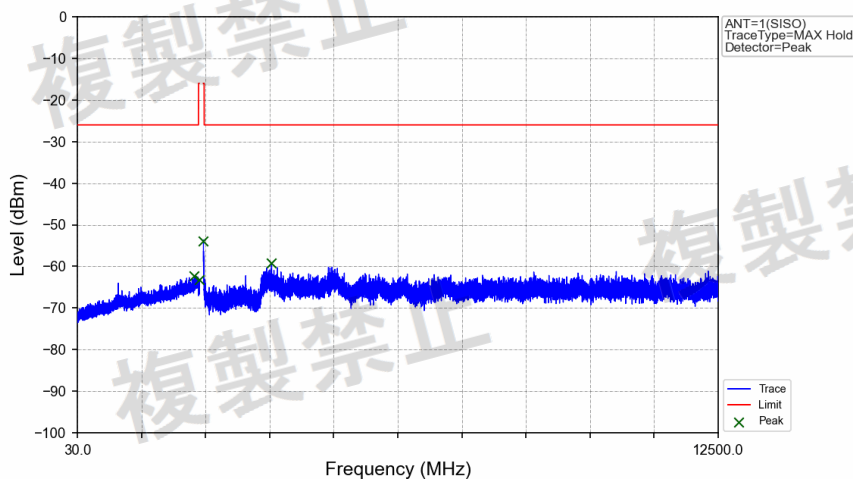
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

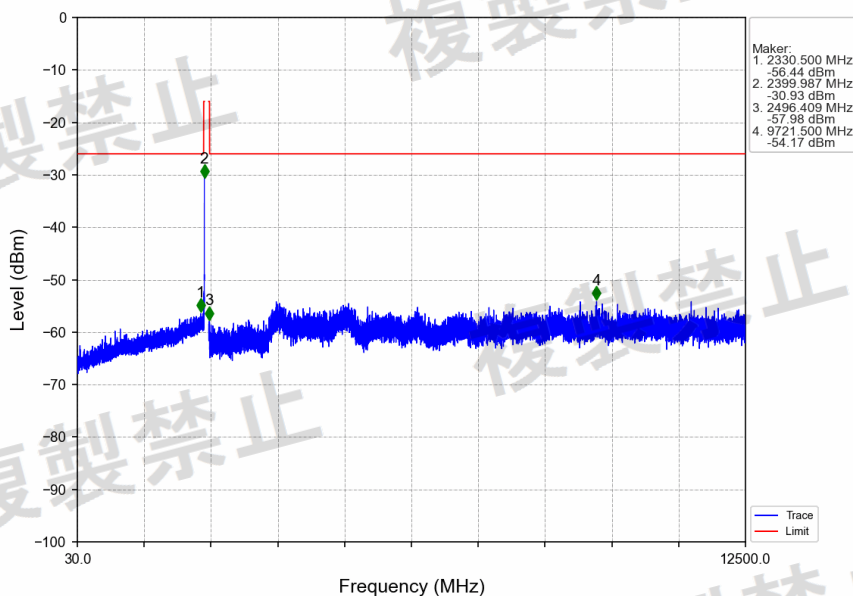


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2305.500	-62.32	/	-26	Pass
2387	2400	1	1	2395.801	-63.14	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-53.85	/	-16	Pass
2496.5	12500	1	1	3809.500	-59.29	/	-26	Pass

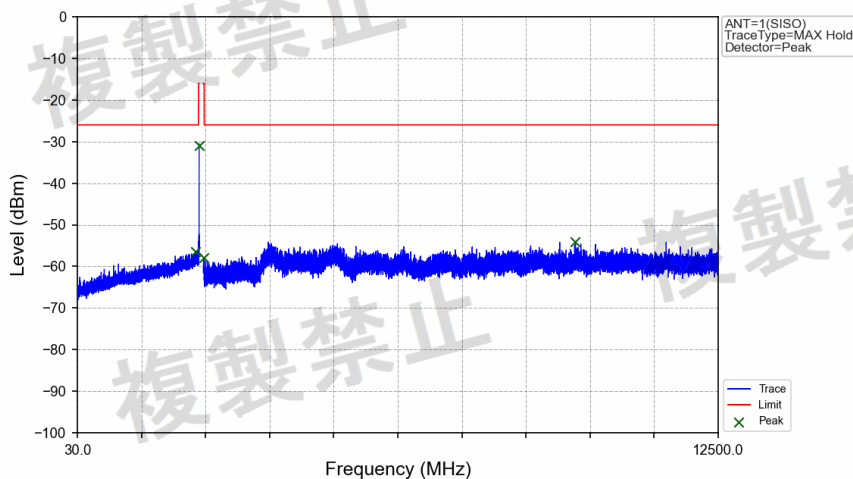
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

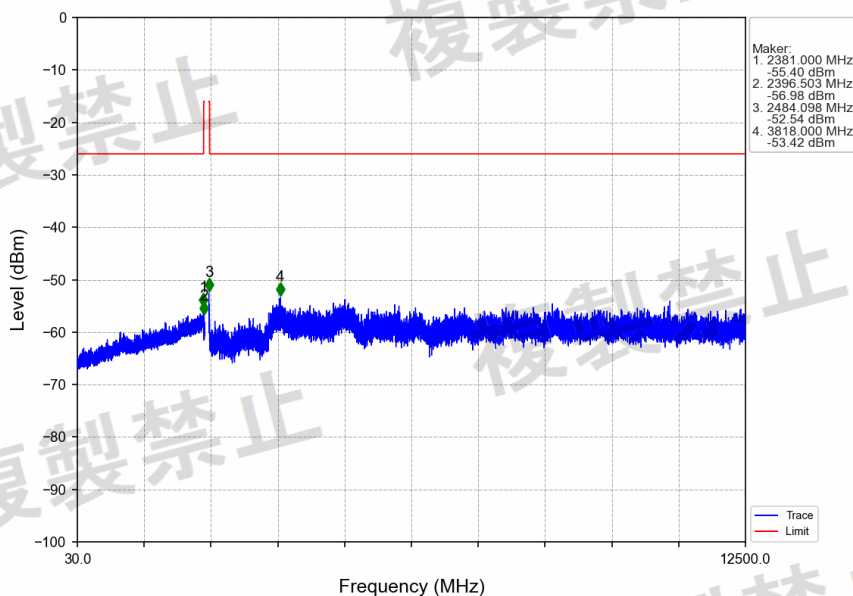


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2330.500	-56.44	/	-26	Pass
2387	2400	1	1	2399.987	-30.93	/	-16	Pass
2483.5	2496.5	1	1	2496.409	-57.98	/	-16	Pass
2496.5	12500	1	1	9721.500	-54.17	/	-26	Pass

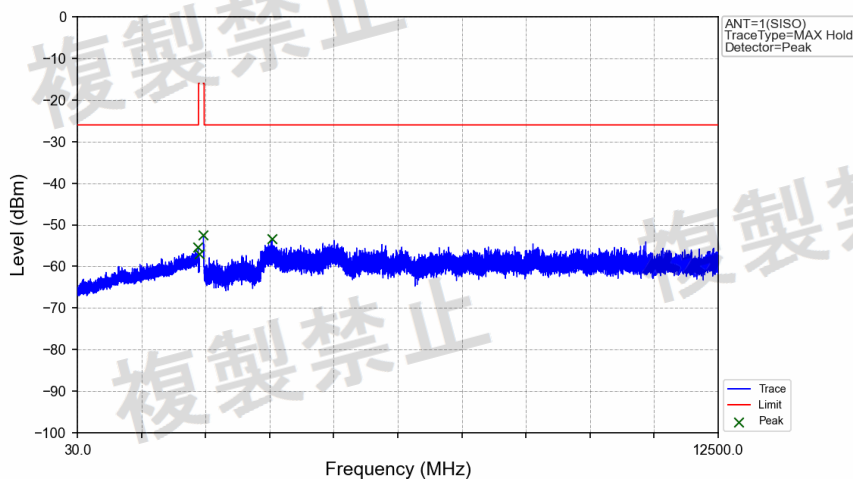
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



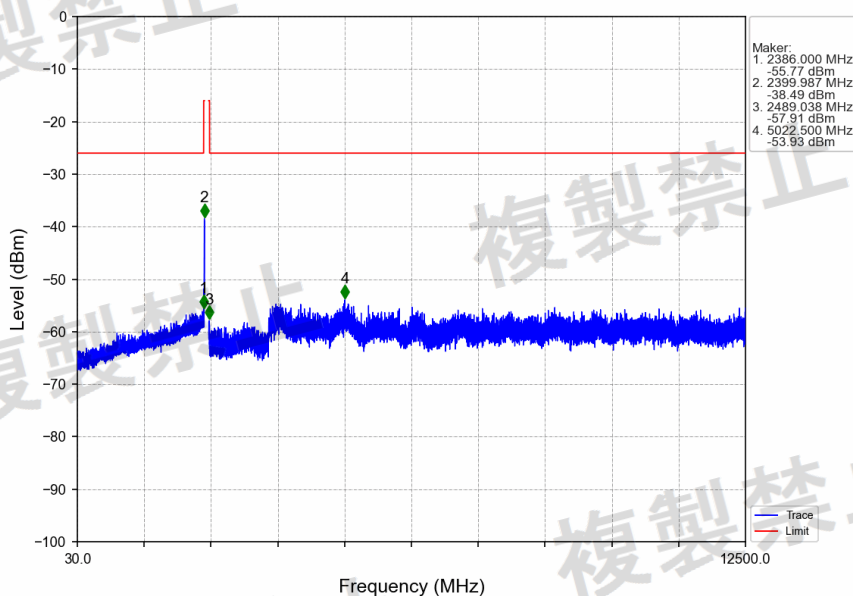
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2381.000	-55.40	/	-26	Pass
2387	2400	1	1	2396.503	-56.98	/	-16	Pass
2483.5	2496.5	1	1	2484.098	-52.54	/	-16	Pass
2496.5	12500	1	1	3818.000	-53.42	/	-26	Pass

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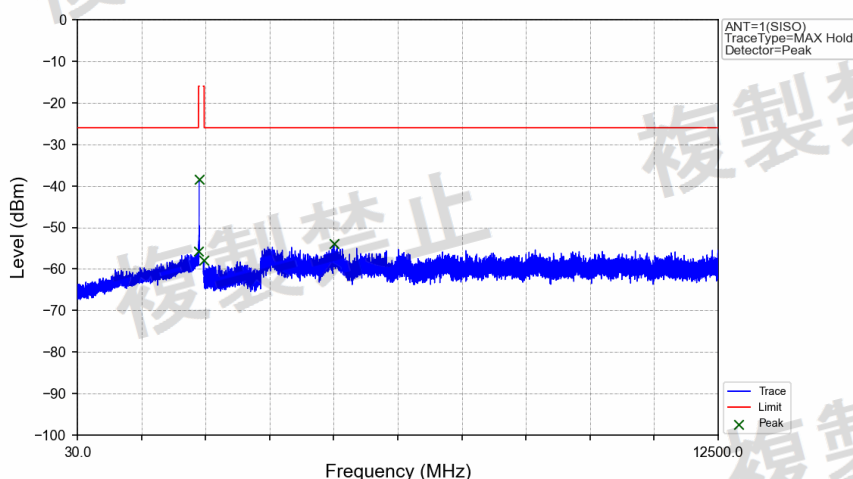
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6.2.2 TxSe_NTLV

GFSK_DH5_2402MHz_Ant1_NTLV



GFSK_DH5_2402MHz_Ant1_NTLV

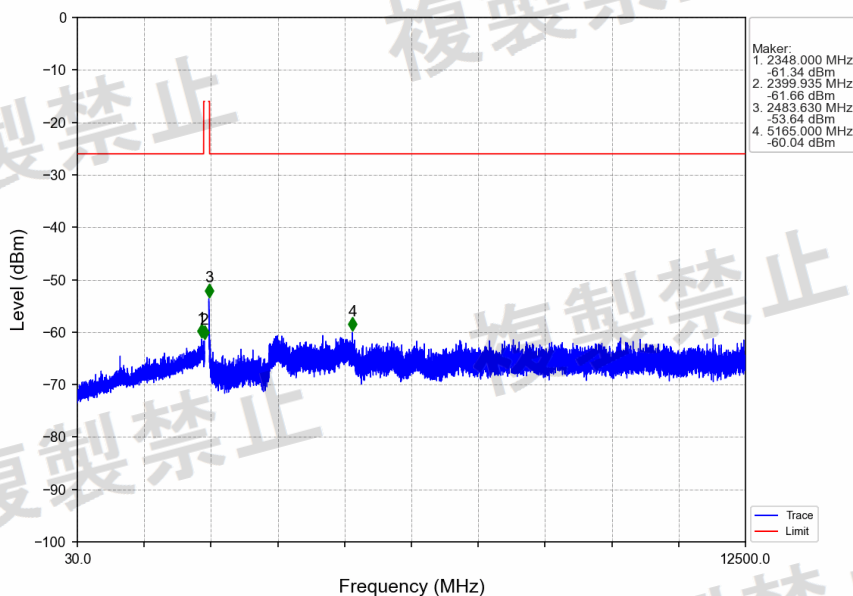


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-55.77	/	-26	Pass
2387	2400	1	1	2399.987	-38.49	/	-16	Pass
2483.5	2496.5	1	1	2489.038	-57.91	/	-16	Pass
2496.5	12500	1	1	5022.500	-53.93	/	-26	Pass

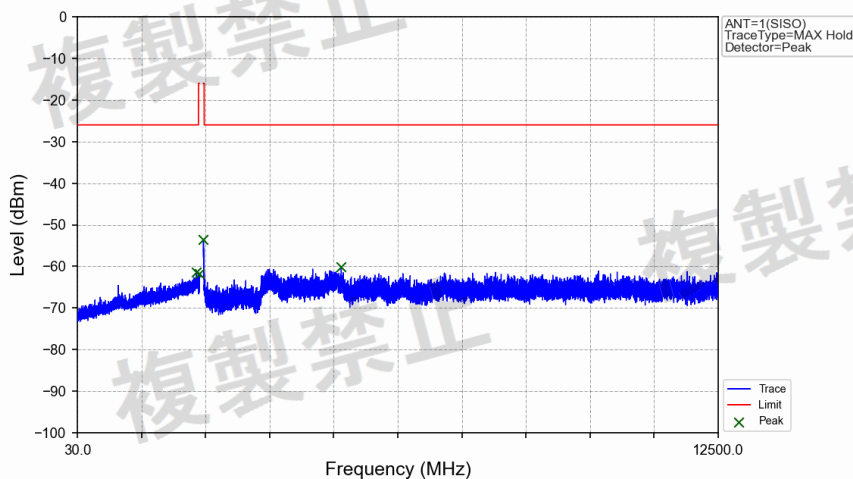
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GFSK_DH5_2480MHz_Ant1_NTLV



GFSK_DH5_2480MHz_Ant1_NTLV

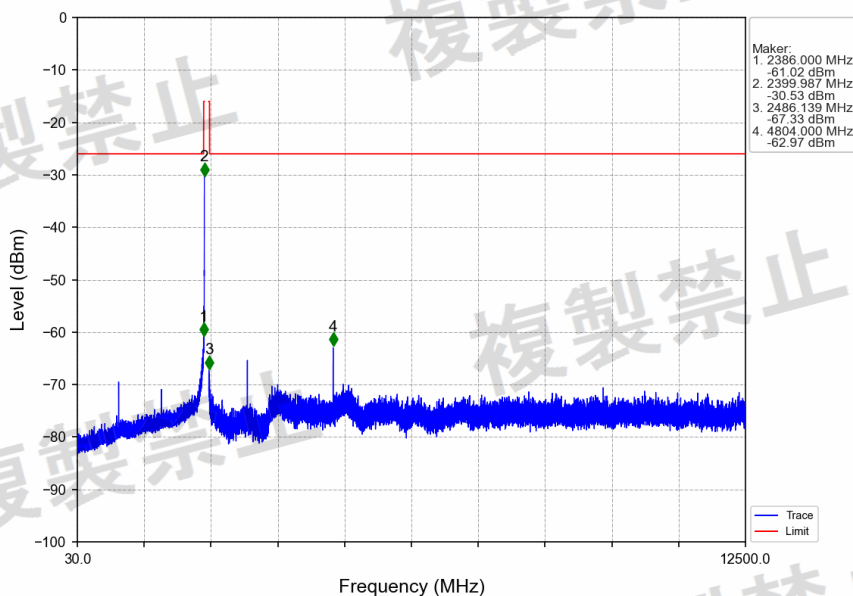


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2348.000	-61.34	/	-26	Pass
2387	2400	1	1	2399.935	-61.66	/	-16	Pass
2483.5	2496.5	1	1	2483.630	-53.64	/	-16	Pass
2496.5	12500	1	1	5165.000	-60.04	/	-26	Pass

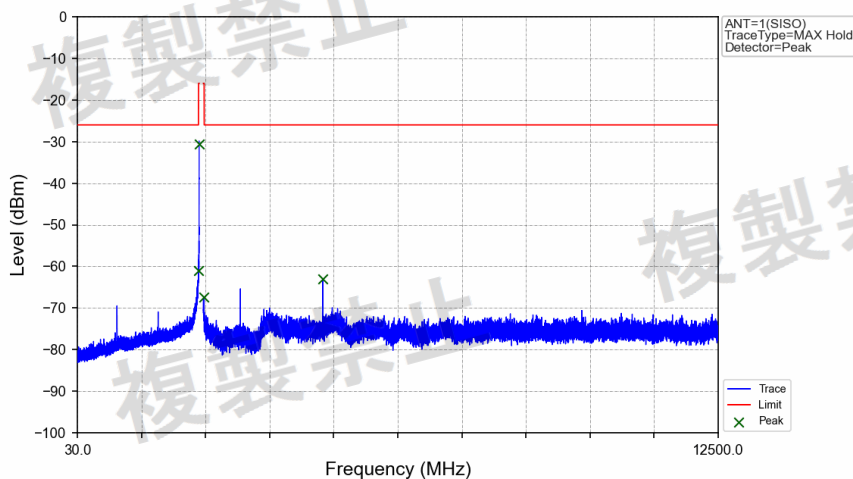
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV

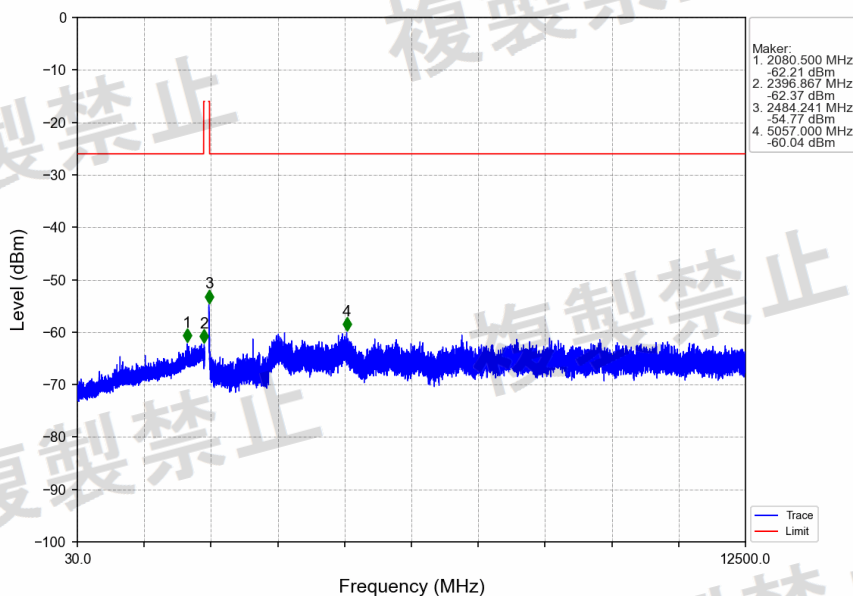


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-61.02	/	-26	Pass
2387	2400	1	1	2399.987	-30.53	/	-16	Pass
2483.5	2496.5	1	1	2486.139	-67.33	/	-16	Pass
2496.5	12500	1	1	4804.000	-62.97	/	-26	Pass

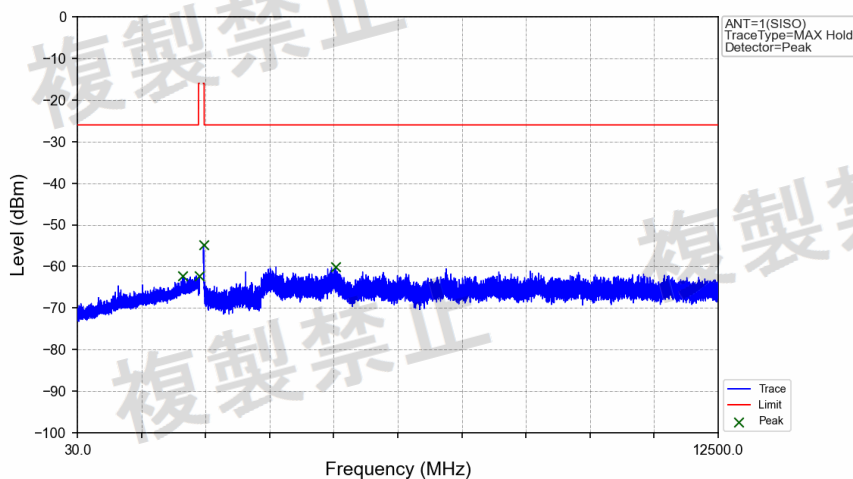
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV

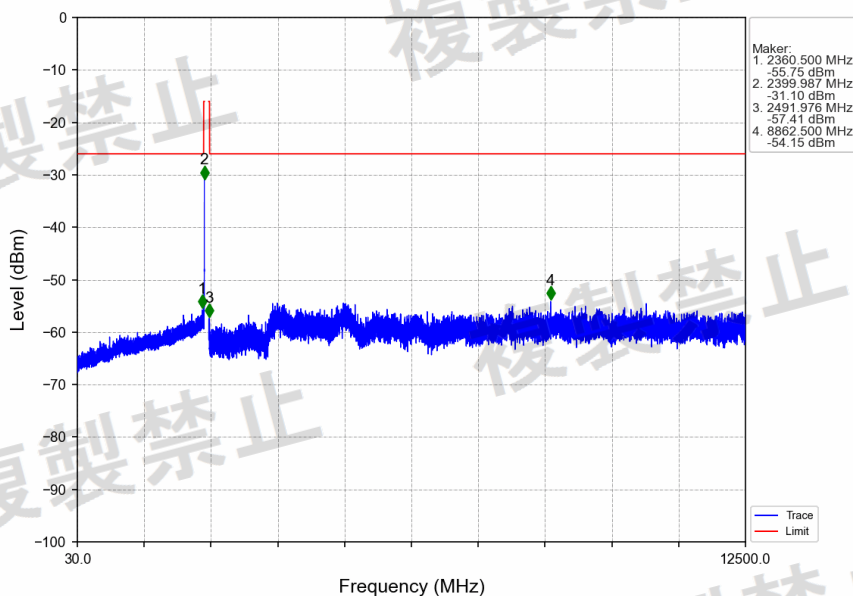


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2080.500	-62.21	/	-26	Pass
2387	2400	1	1	2396.867	-62.37	/	-16	Pass
2483.5	2496.5	1	1	2484.241	-54.77	/	-16	Pass
2496.5	12500	1	1	5057.000	-60.04	/	-26	Pass

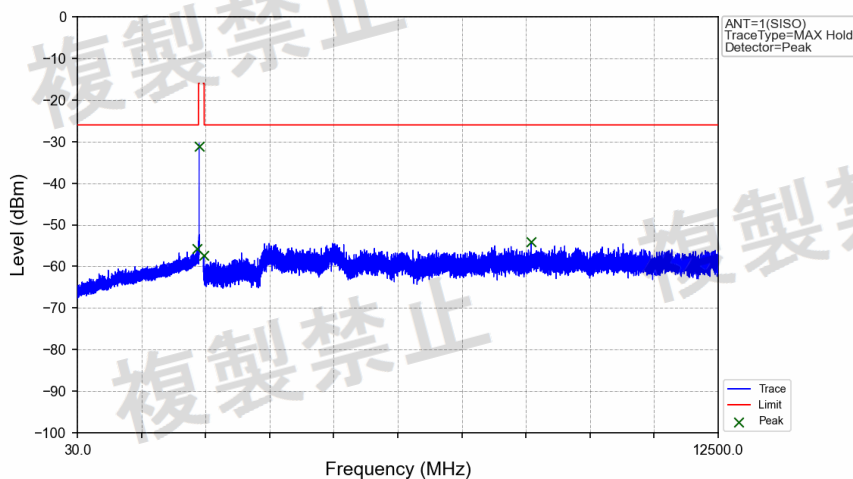
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8DPSK_3DH5_2402MHz_Ant1_NTLV



8DPSK_3DH5_2402MHz_Ant1_NTLV

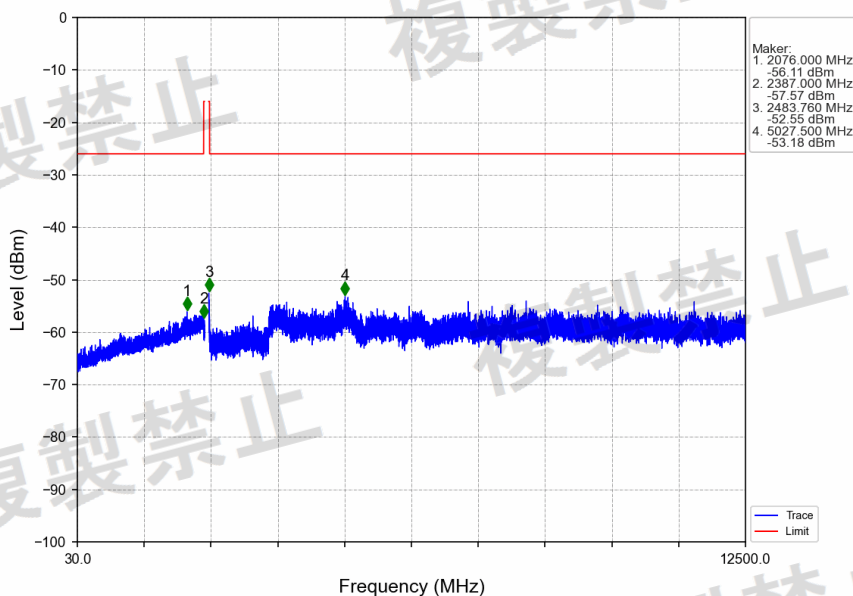


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2360.500	-55.75	/	-26	Pass
2387	2400	1	1	2399.987	-31.10	/	-16	Pass
2483.5	2496.5	1	1	2491.976	-57.41	/	-16	Pass
2496.5	12500	1	1	8862.500	-54.15	/	-26	Pass

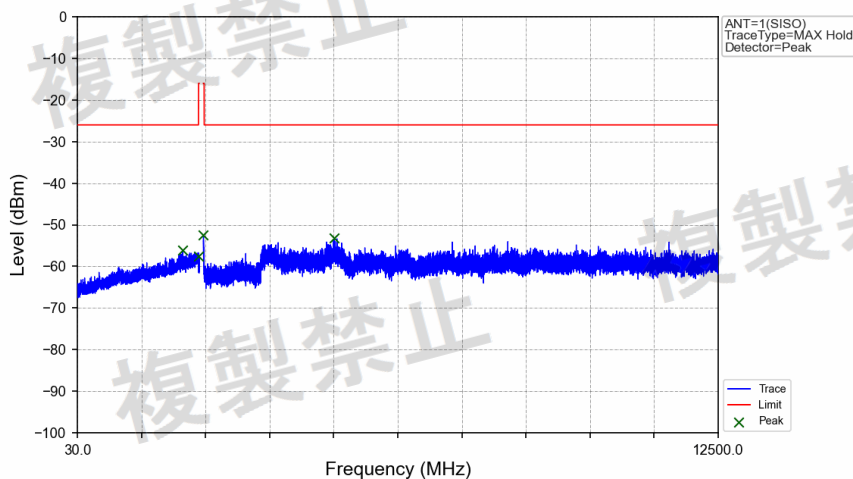
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8DPSK_3DH5_2480MHz_Ant1_NTLV



8DPSK_3DH5_2480MHz_Ant1_NTLV



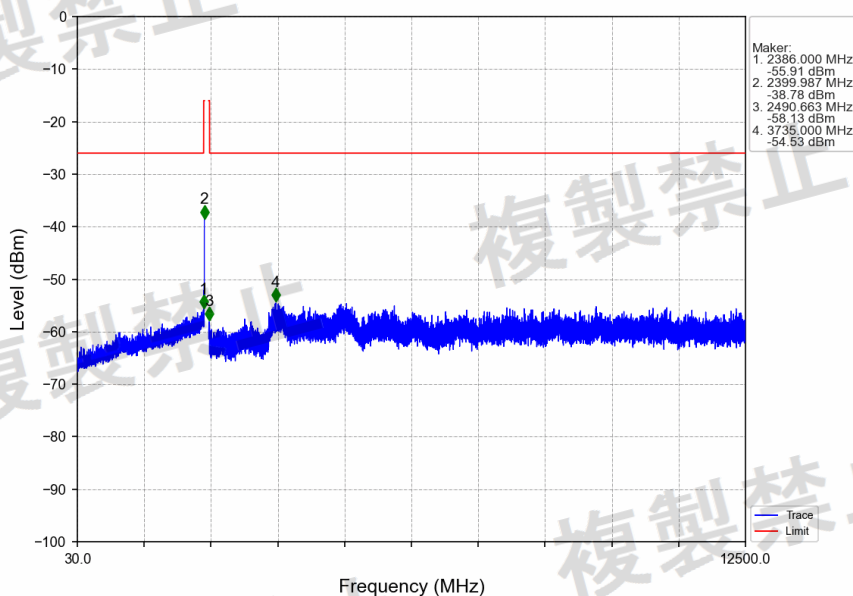
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2076.000	-56.11	/	-26	Pass
2387	2400	1	1	2387.000	-57.57	/	-16	Pass
2483.5	2496.5	1	1	2483.760	-52.55	/	-16	Pass
2496.5	12500	1	1	5027.500	-53.18	/	-26	Pass

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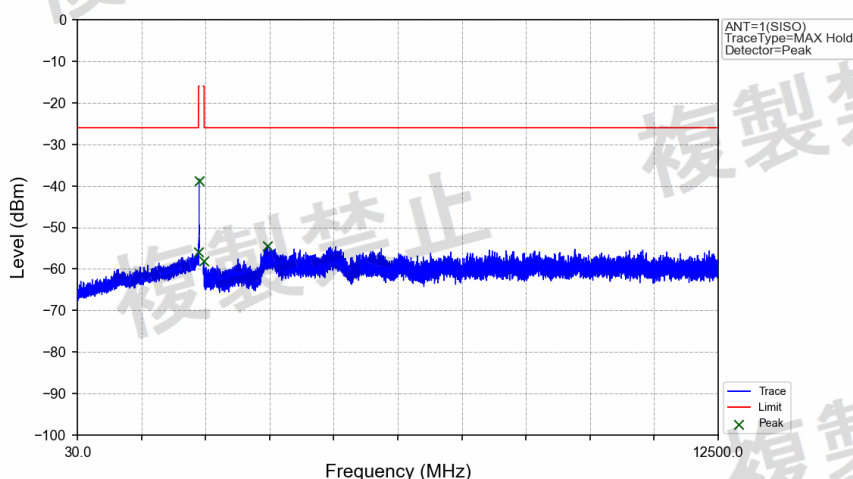
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6.2.3 TxSe_NTHV

GFSK_DH5_2402MHz_Ant1_NTHV



GFSK_DH5_2402MHz_Ant1_NTHV

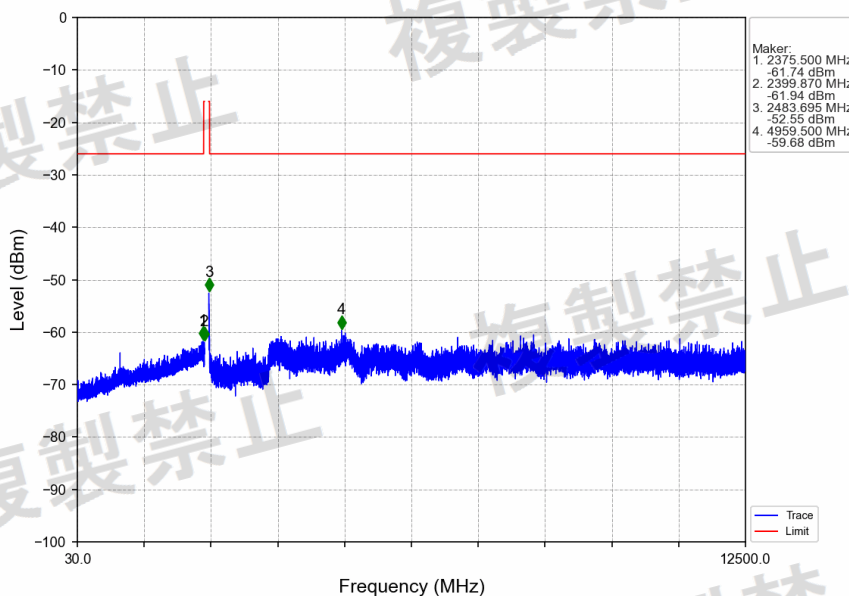


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-55.91	/	-26	Pass
2387	2400	1	1	2399.987	-38.78	/	-16	Pass
2483.5	2496.5	1	1	2490.663	-58.13	/	-16	Pass
2496.5	12500	1	1	3735.000	-54.53	/	-26	Pass

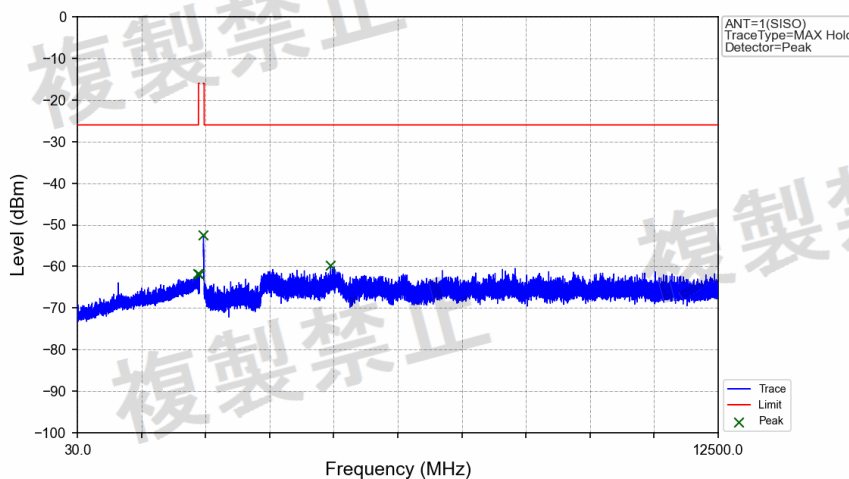
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GFSK_DH5_2480MHz_Ant1_NTHV



GFSK_DH5_2480MHz_Ant1_NTHV

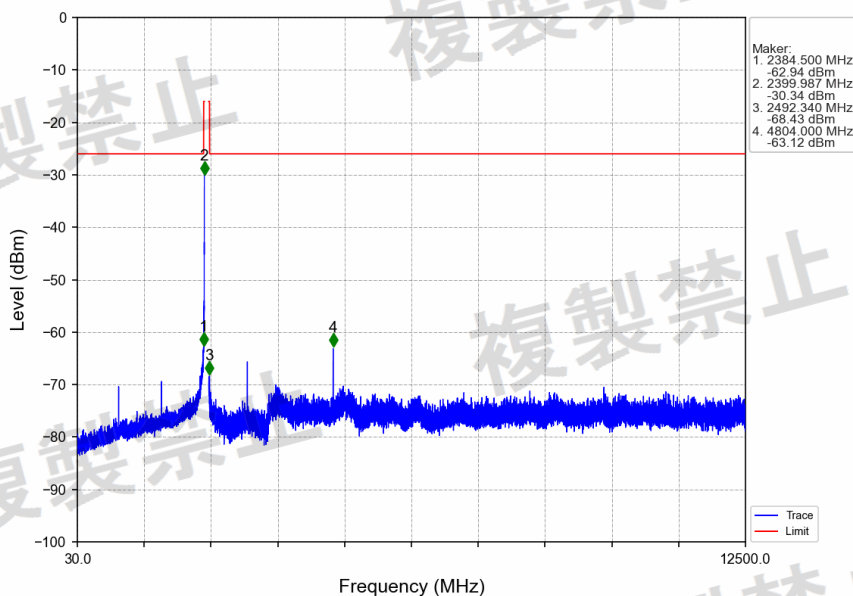


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2375.500	-61.74	/	-26	Pass
2387	2400	1	1	2399.870	-61.94	/	-16	Pass
2483.5	2496.5	1	1	2483.695	-52.55	/	-16	Pass
2496.5	12500	1	1	4959.500	-59.68	/	-26	Pass

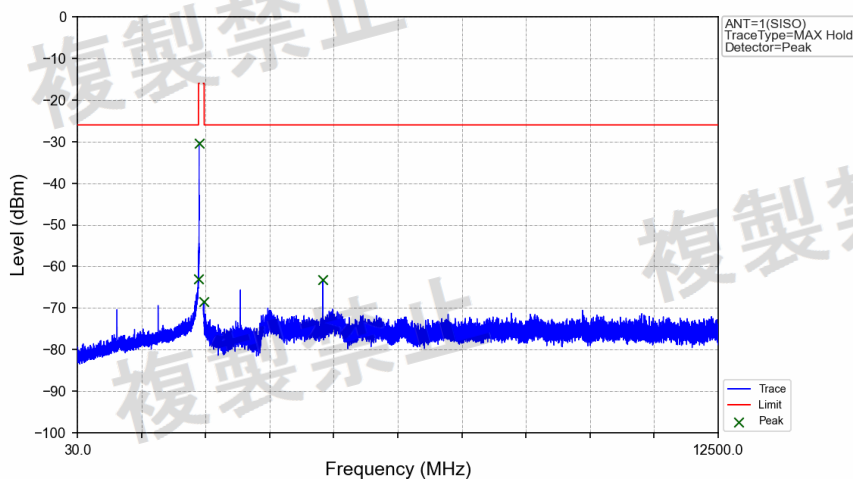
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV

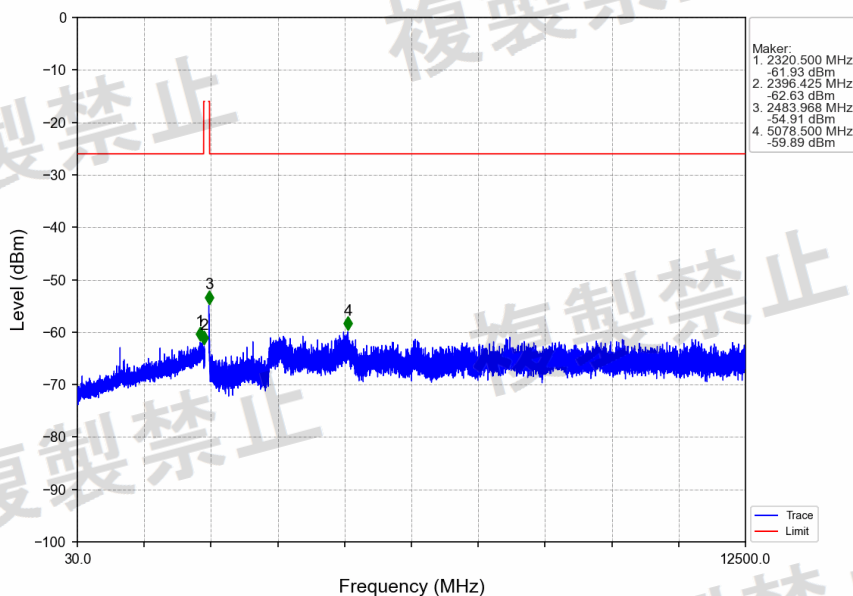


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2384.500	-62.94	/	-26	Pass
2387	2400	1	1	2399.987	-30.34	/	-16	Pass
2483.5	2496.5	1	1	2492.340	-68.43	/	-16	Pass
2496.5	12500	1	1	4804.000	-63.12	/	-26	Pass

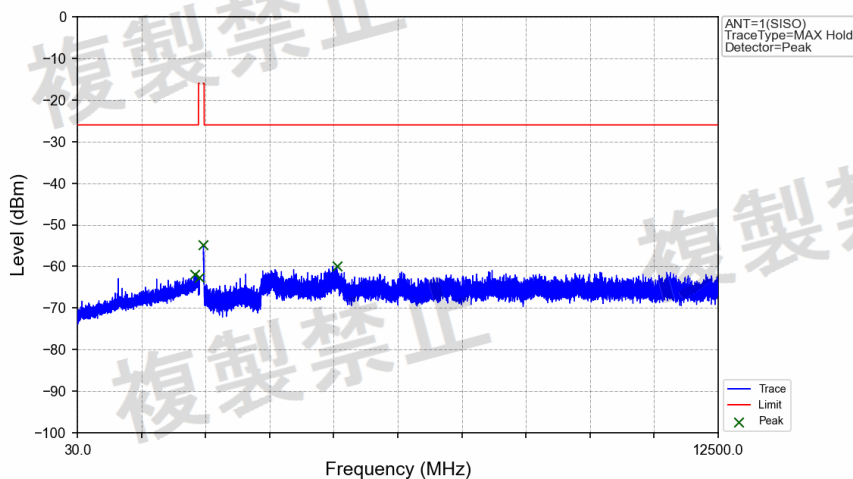
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV

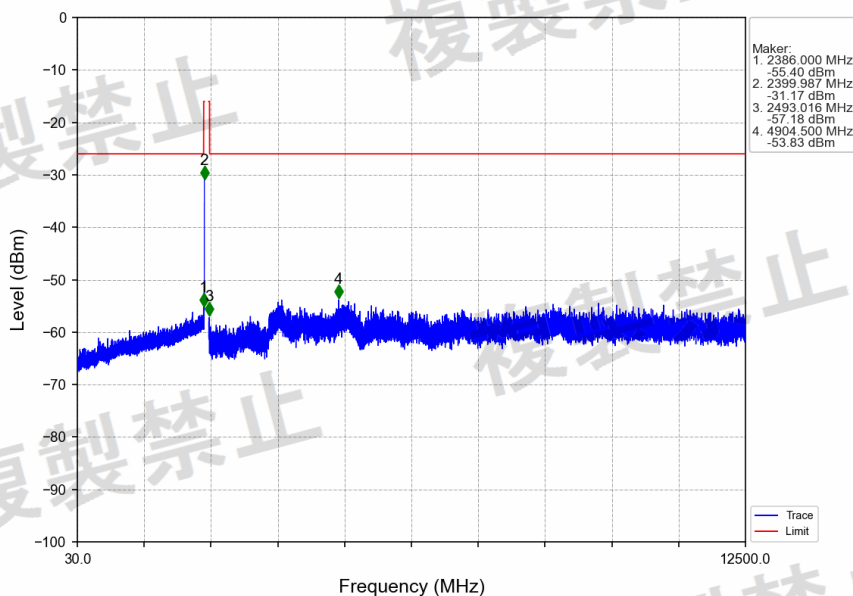


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2320.500	-61.93	/	-26	Pass
2387	2400	1	1	2396.425	-62.63	/	-16	Pass
2483.5	2496.5	1	1	2483.968	-54.91	/	-16	Pass
2496.5	12500	1	1	5078.500	-59.89	/	-26	Pass

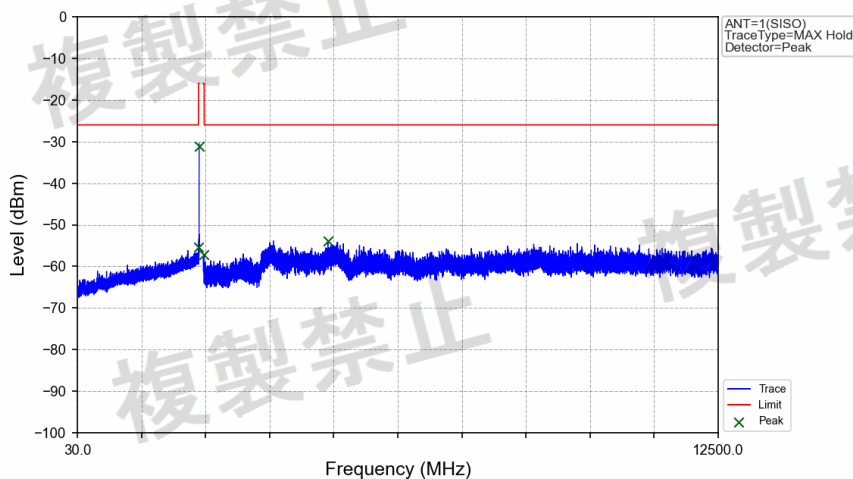
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8DPSK_3DH5_2402MHz_Ant1_NTHV



8DPSK_3DH5_2402MHz_Ant1_NTHV

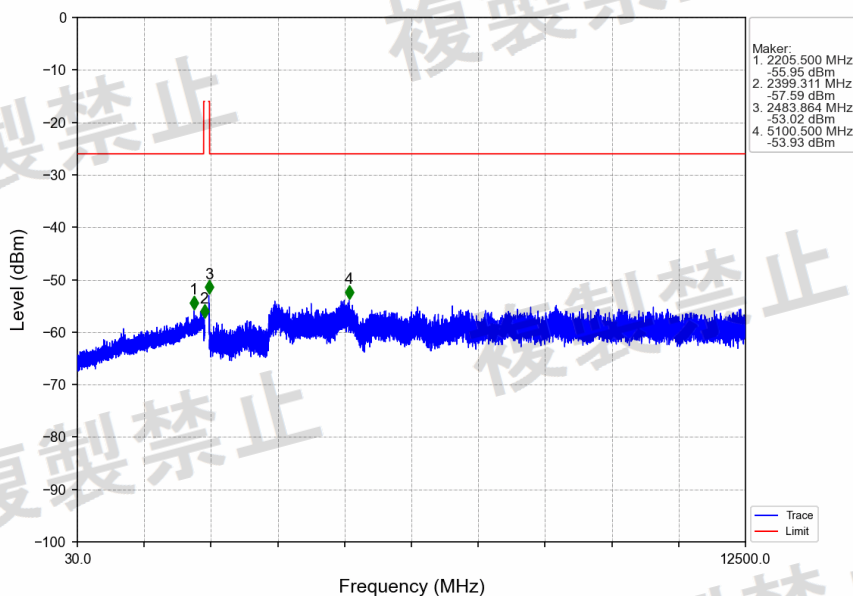


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-55.40	/	-26	Pass
2387	2400	1	1	2399.987	-31.17	/	-16	Pass
2483.5	2496.5	1	1	2493.016	-57.18	/	-16	Pass
2496.5	12500	1	1	4904.500	-53.83	/	-26	Pass

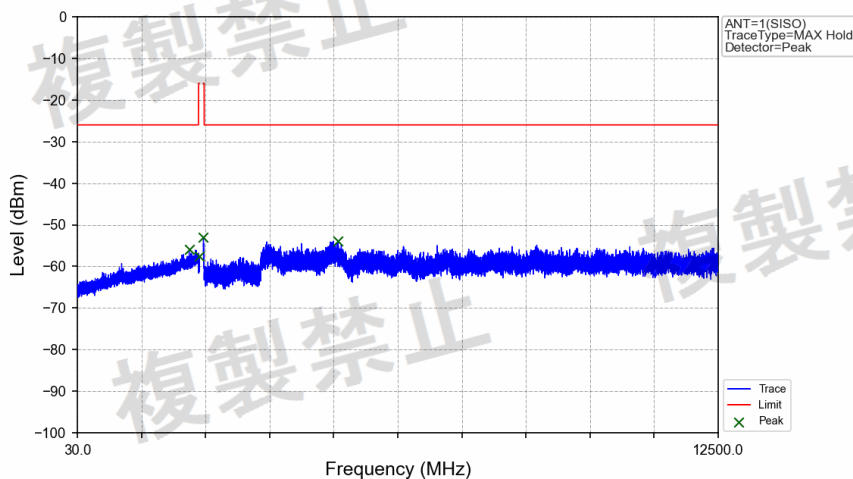
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8DPSK_3DH5_2480MHz_Ant1_NTHV



8DPSK_3DH5_2480MHz_Ant1_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2205.500	-55.95	/	-26	Pass
2387	2400	1	1	2399.311	-57.59	/	-16	Pass
2483.5	2496.5	1	1	2483.864	-53.02	/	-16	Pass
2496.5	12500	1	1	5100.500	-53.93	/	-26	Pass

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7. Secondary Radiated Emission

7.1 Test Result

7.1.1 RxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	850.5	-84.95	0.003	/	/	4	Pass
				1000	12500	3823	-69.14	0.122	/	/	20	Pass
		2480	1	30	1000	974.7	-85.80	0.003	/	/	4	Pass
				1000	12500	5029.5	-69.32	0.117	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	896.95	-85.60	0.003	/	/	4	Pass
				1000	12500	5055.5	-69.30	0.117	/	/	20	Pass
		2480	1	30	1000	781.8	-85.23	0.003	/	/	4	Pass
				1000	12500	5027.5	-68.67	0.136	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	919.45	-85.51	0.003	/	/	4	Pass
				1000	12500	5750	-68.20	0.151	/	/	20	Pass
		2480	1	30	1000	876.8	-85.15	0.003	/	/	4	Pass
				1000	12500	4950.5	-68.45	0.143	/	/	20	Pass

7.1.2 RxSe_NTLV

NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	978.35	-85.42	0.003	/	/	4	Pass
				1000	12500	5055.5	-68.81	0.132	/	/	20	Pass
		2480	1	30	1000	887.1	-84.07	0.004	/	/	4	Pass
				1000	12500	3840	-69.46	0.113	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	878.55	-85.72	0.003	/	/	4	Pass
				1000	12500	5752	-68.68	0.136	/	/	20	Pass
		2480	1	30	1000	820.05	-84.71	0.003	/	/	4	Pass
				1000	12500	5130.5	-69.15	0.122	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	885.2	-85.59	0.003	/	/	4	Pass
				1000	12500	3853	-68.65	0.136	/	/	20	Pass

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		2480	1	30	1000	904.55	-85.51	0.003	/	/	4	Pass
				1000	12500	10293.5	-69.00	0.126	/	/	20	Pass

7.1.3 RxSe_NTHV

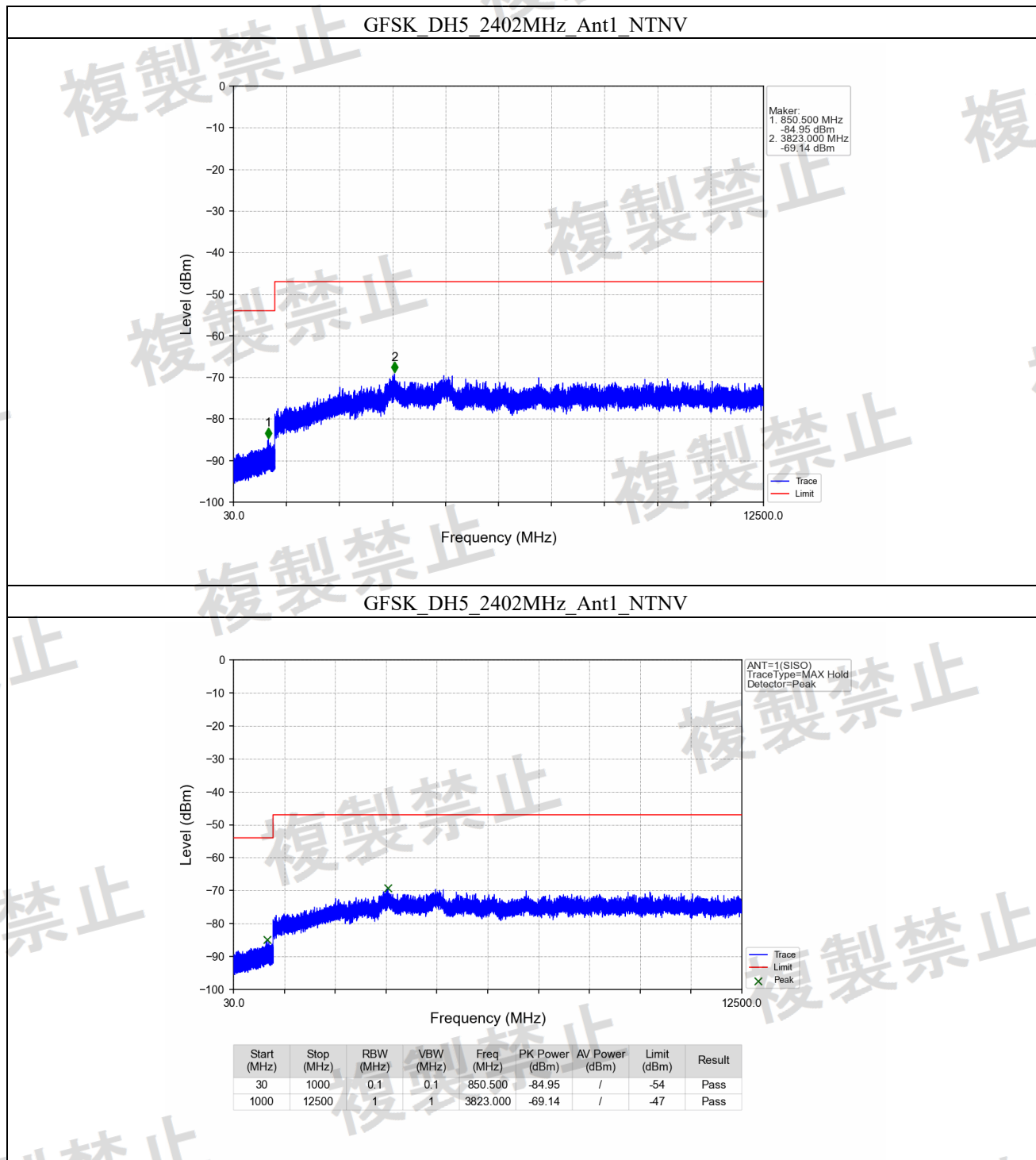
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	951.25	-85.37	0.003	/	/	4	Pass
				1000	12500	9675.5	-69.60	0.110	/	/	20	Pass
		2480	1	30	1000	929.95	-85.81	0.003	/	/	4	Pass
				1000	12500	3886.5	-69.36	0.116	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	866.15	-86.17	0.002	/	/	4	Pass
				1000	12500	4979.5	-68.69	0.135	/	/	20	Pass
		2480	1	30	1000	854.15	-85.33	0.003	/	/	4	Pass
				1000	12500	5094	-67.88	0.163	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	884.95	-85.08	0.003	/	/	4	Pass
				1000	12500	8930	-69.15	0.122	/	/	20	Pass
		2480	1	30	1000	942.6	-85.44	0.003	/	/	4	Pass
				1000	12500	5747.5	-68.65	0.136	/	/	20	Pass

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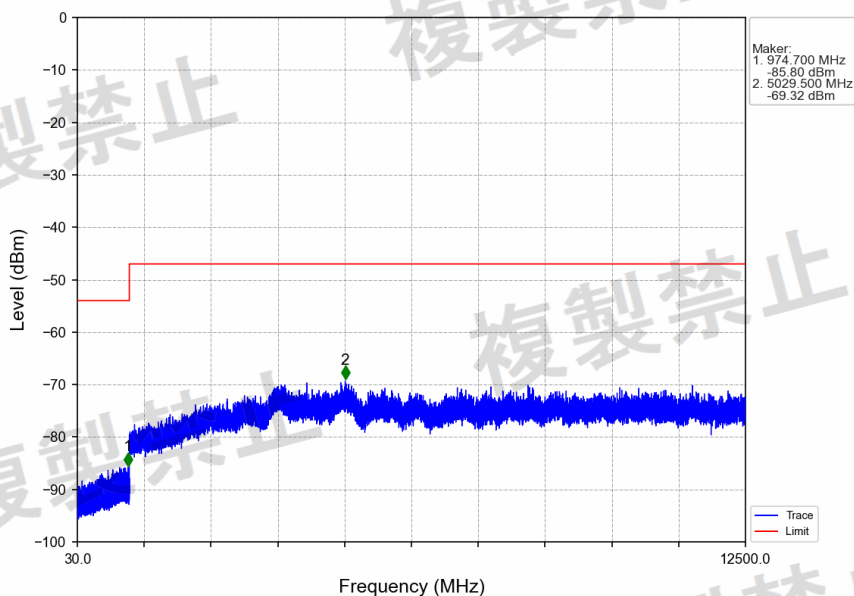
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7.2 Test Graph

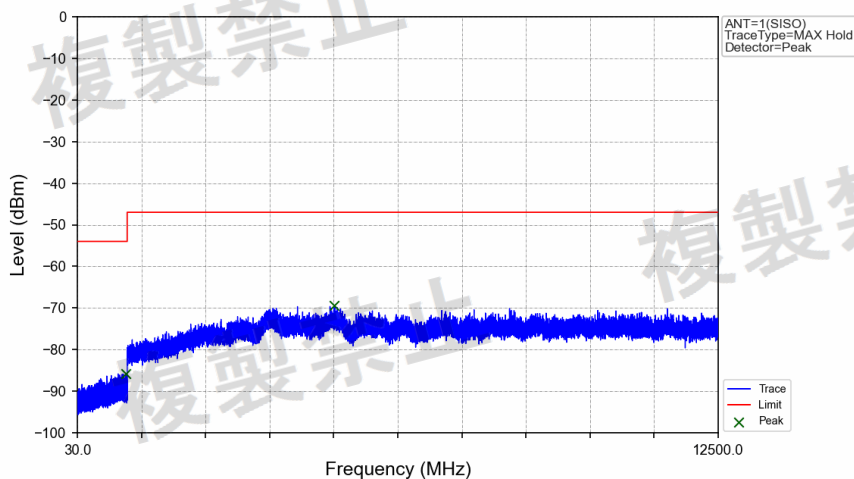
7.2.1 RxSe_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

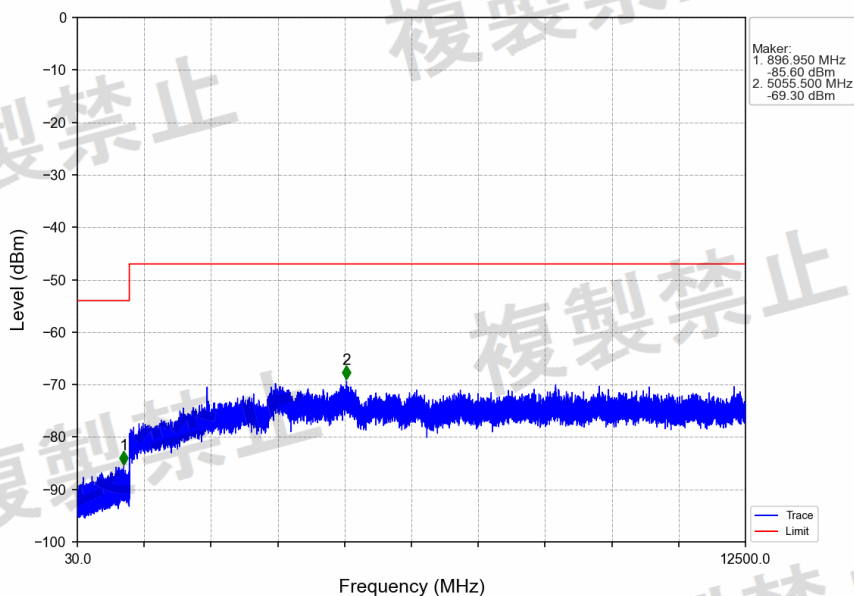


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	974.700	-85.80	/	-54	Pass
1000	12500	1	1	5029.500	-69.32	/	-47	Pass

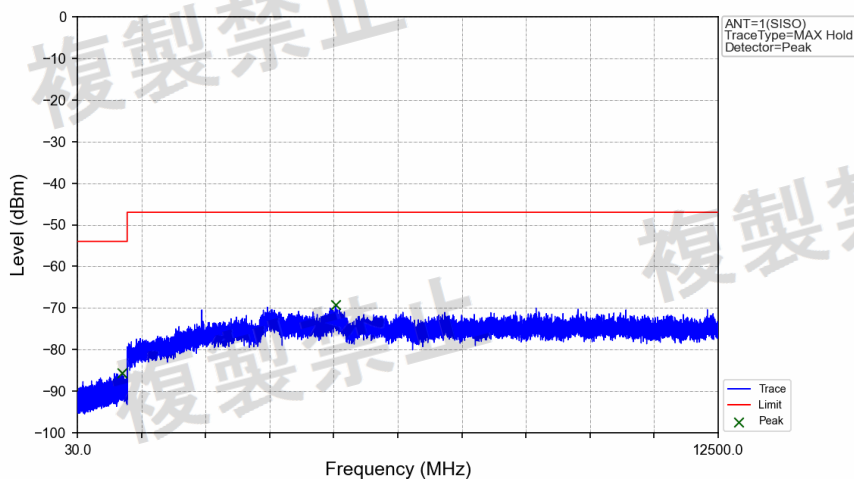
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

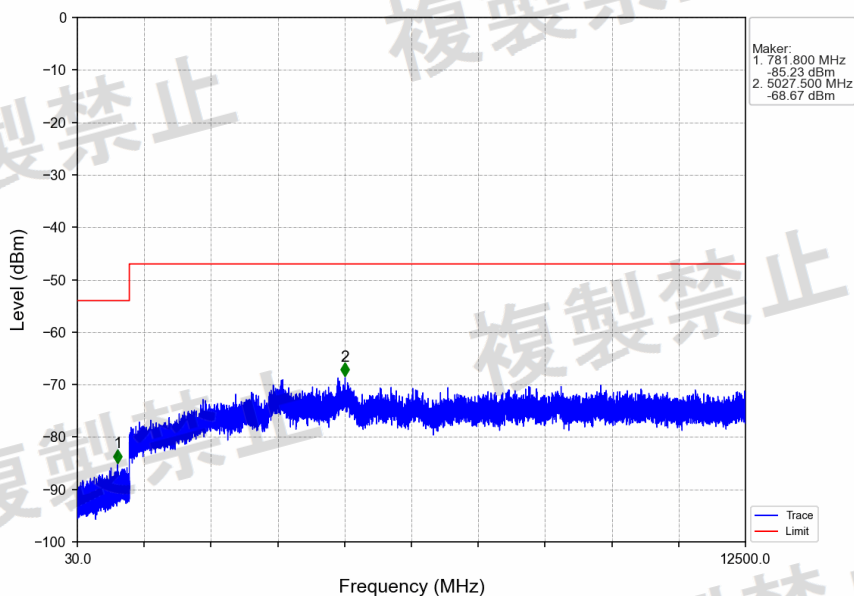


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	896.950	-85.60	/	-54	Pass
1000	12500	1	1	5055.500	-69.30	/	-47	Pass

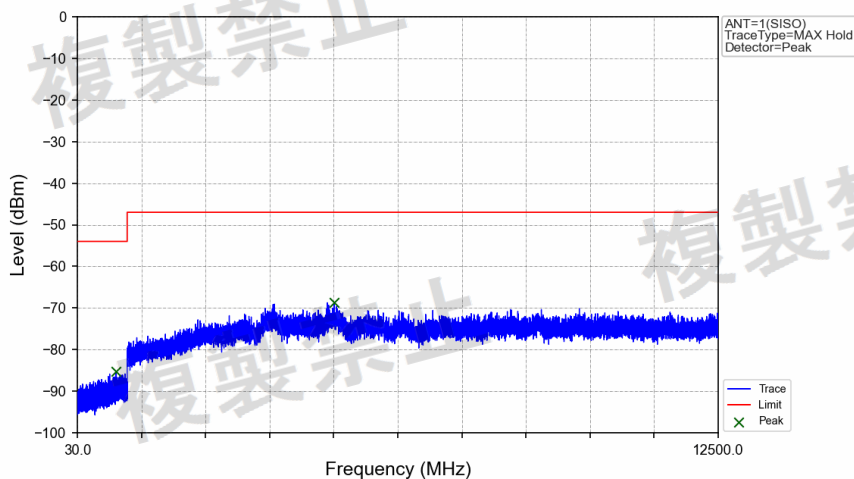
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

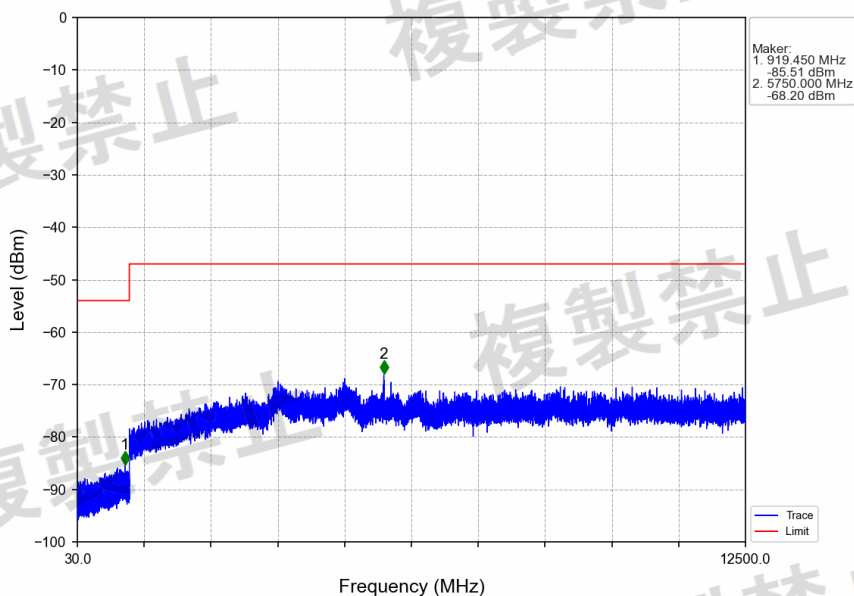


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	781.800	-85.23	/	-54	Pass
1000	12500	1	1	5027.500	-68.67	/	-47	Pass

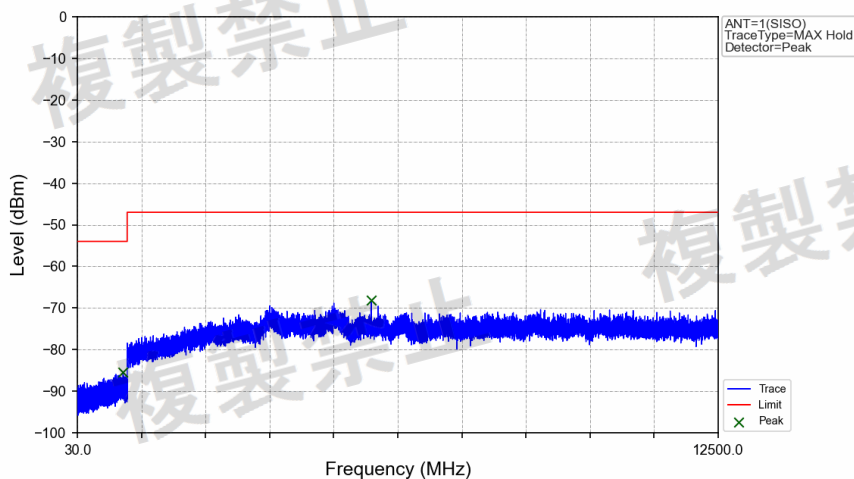
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

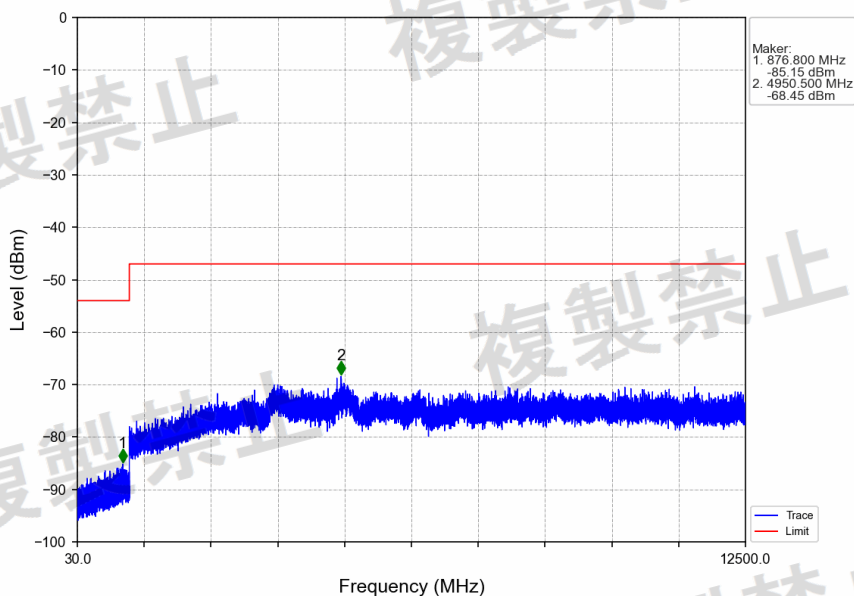


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	919.450	-85.51	/	-54	Pass
1000	12500	1	1	5750.000	-68.20	/	-47	Pass

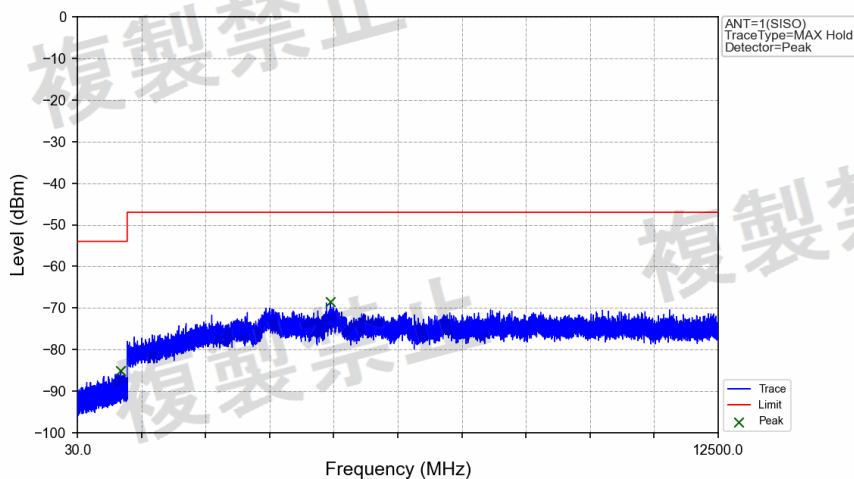
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



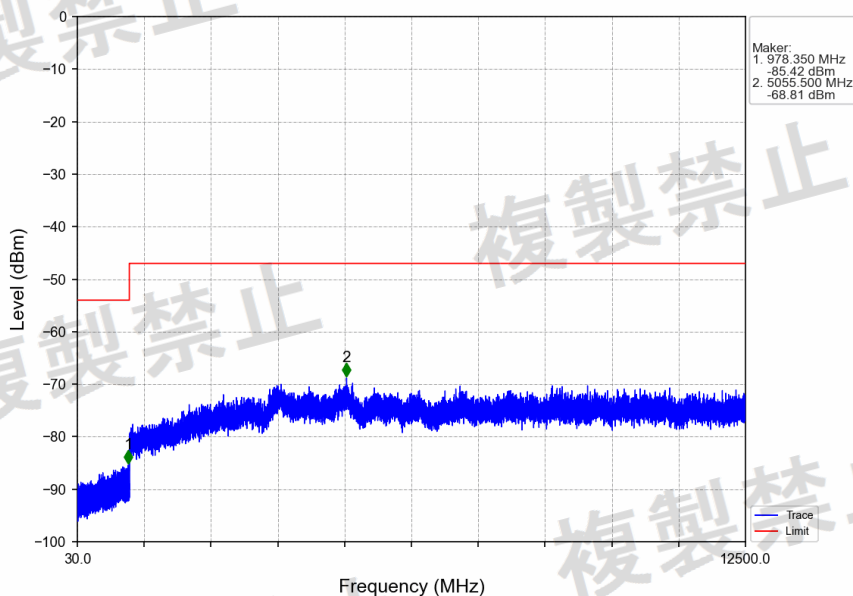
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	876.800	-85.15	/	-54	Pass
1000	12500	1	1	4950.500	-68.45	/	-47	Pass

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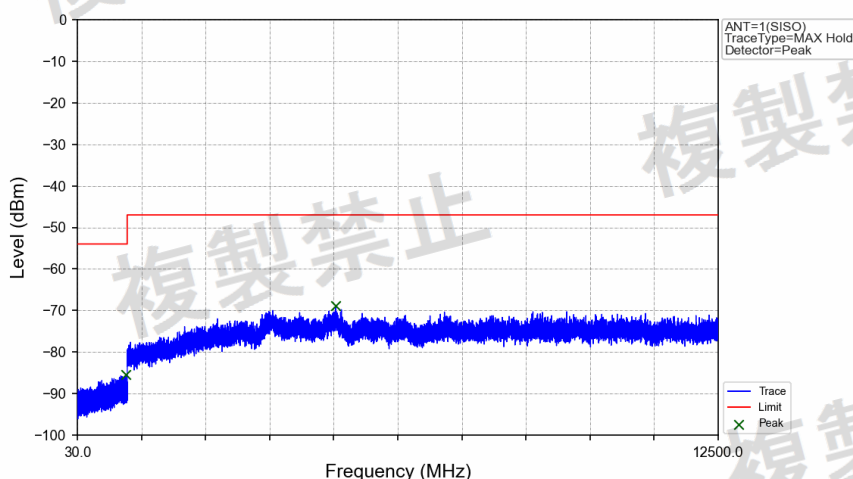
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7.2.2 RxSe_NTLV

GFSK_DH5_2402MHz_Ant1_NTLV



GFSK_DH5_2402MHz_Ant1_NTLV

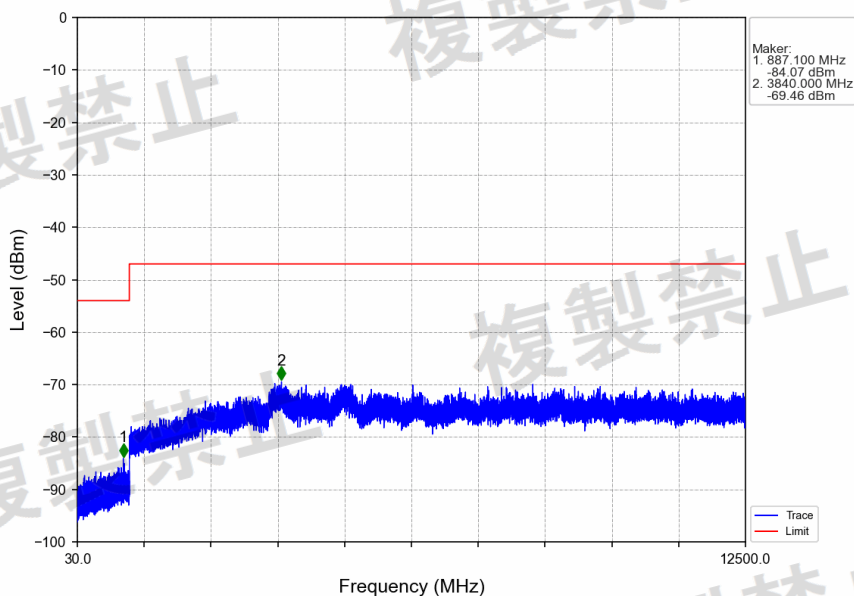


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	978.350	-85.42	/	-54	Pass
1000	12500	1	1	5055.500	-68.81	/	-47	Pass

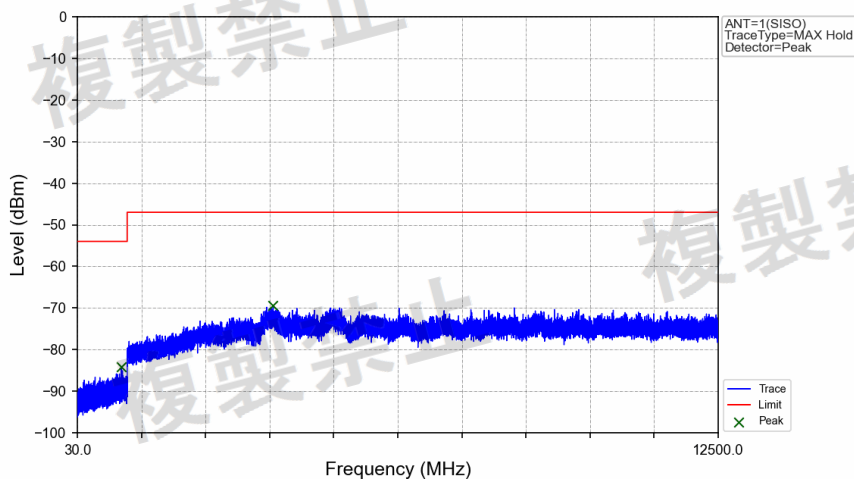
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GFSK_DH5_2480MHz_Ant1_NTLV



GFSK_DH5_2480MHz_Ant1_NTLV

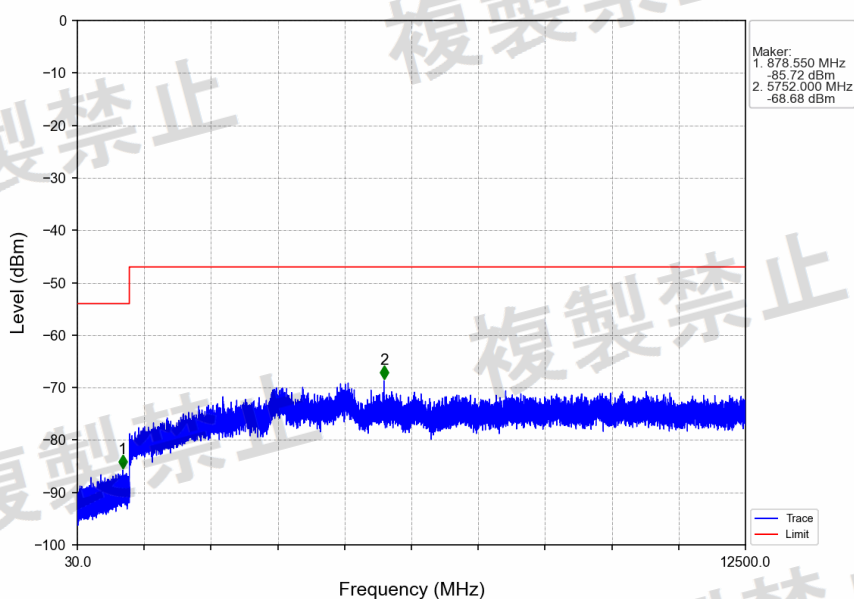


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	887.100	-84.07	/	-54	Pass
1000	12500	1	1	3840.000	-69.46	/	-47	Pass

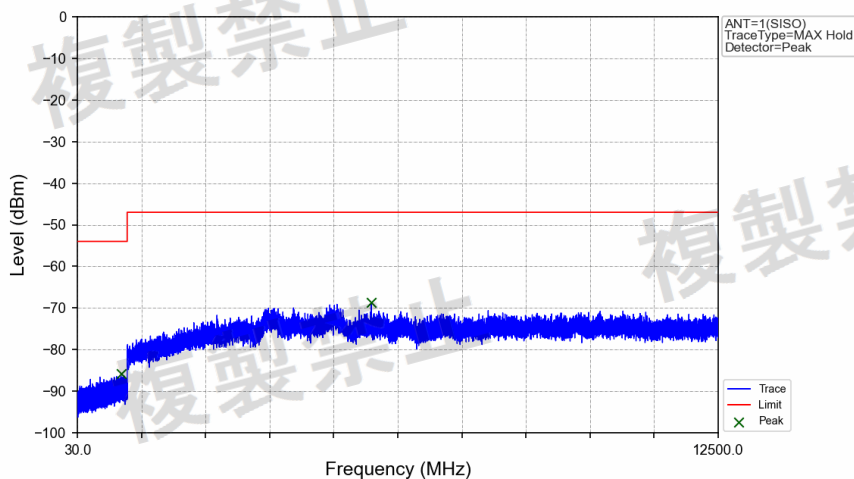
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV

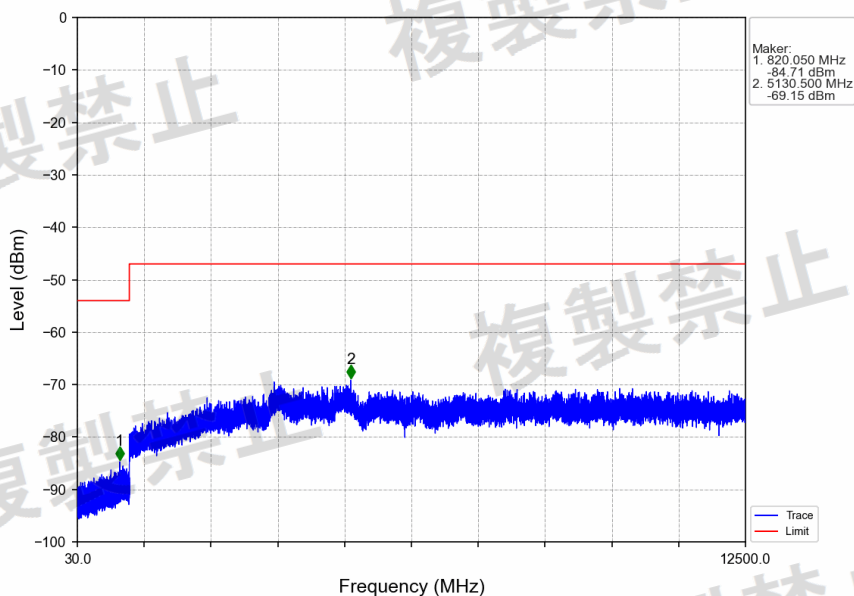


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	878.550	-85.72	/	-54	Pass
1000	12500	1	1	5752.000	-68.68	/	-47	Pass

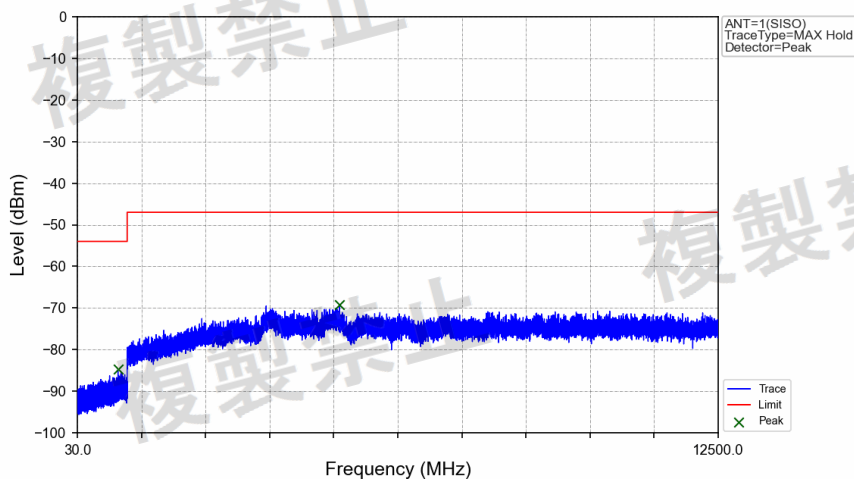
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV

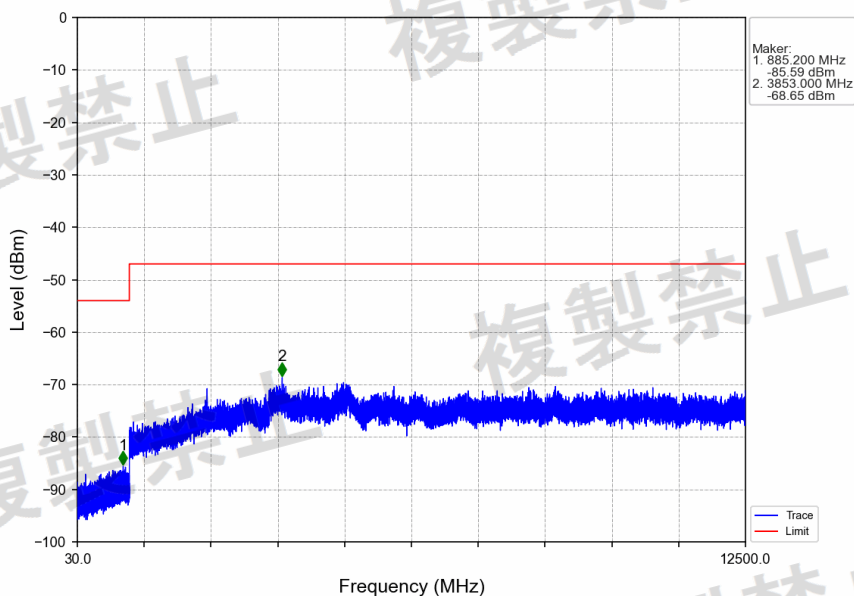


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	820.050	-84.71	/	-54	Pass
1000	12500	1	1	5130.500	-69.15	/	-47	Pass

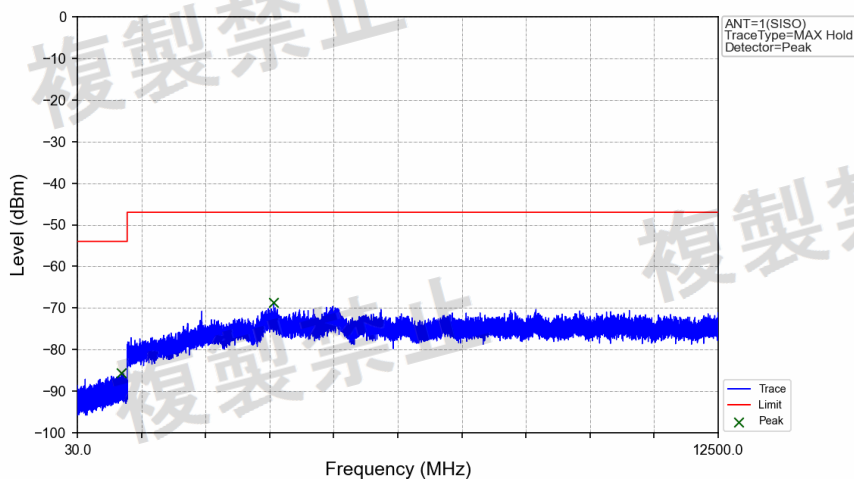
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8DPSK_3DH5_2402MHz_Ant1_NTLV



8DPSK_3DH5_2402MHz_Ant1_NTLV

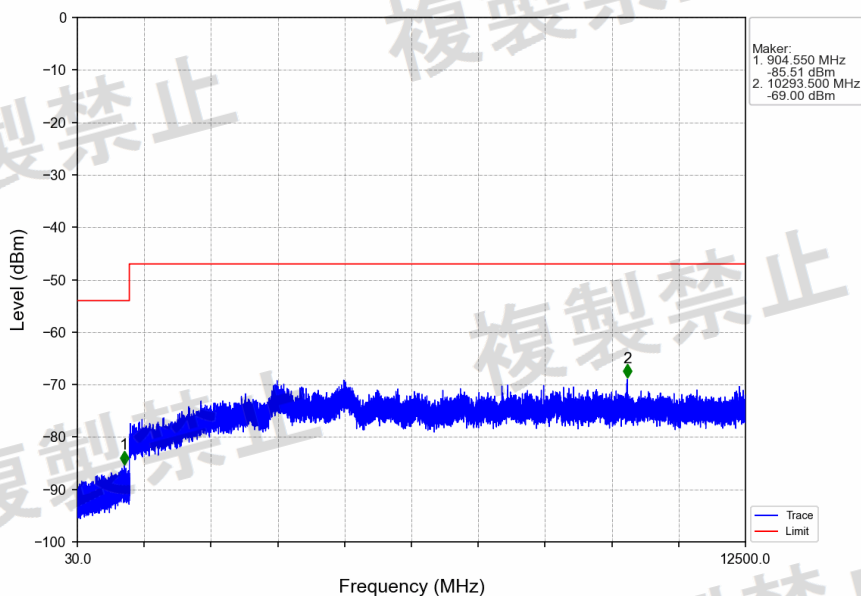


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	885.200	-85.59	/	-54	Pass
1000	12500	1	1	3853.000	-68.65	/	-47	Pass

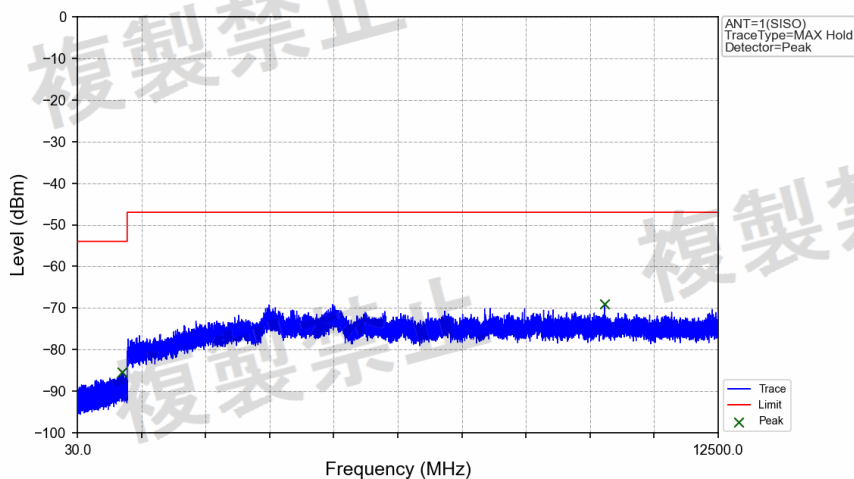
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8DPSK_3DH5_2480MHz_Ant1_NTLV



8DPSK_3DH5_2480MHz_Ant1_NTLV

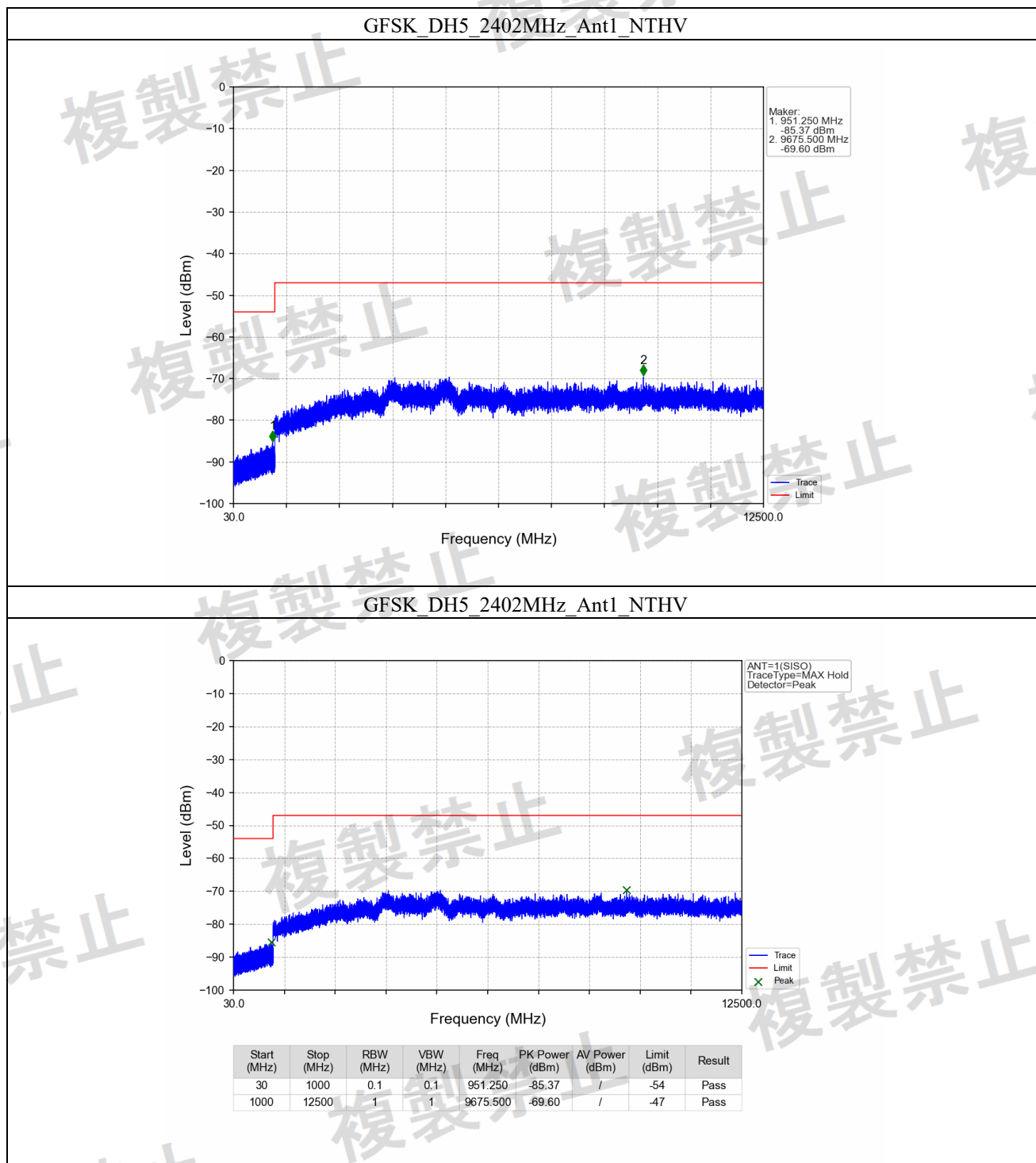


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	904.550	-85.51	/	-54	Pass
1000	12500	1	1	10293.500	-69.00	/	-47	Pass

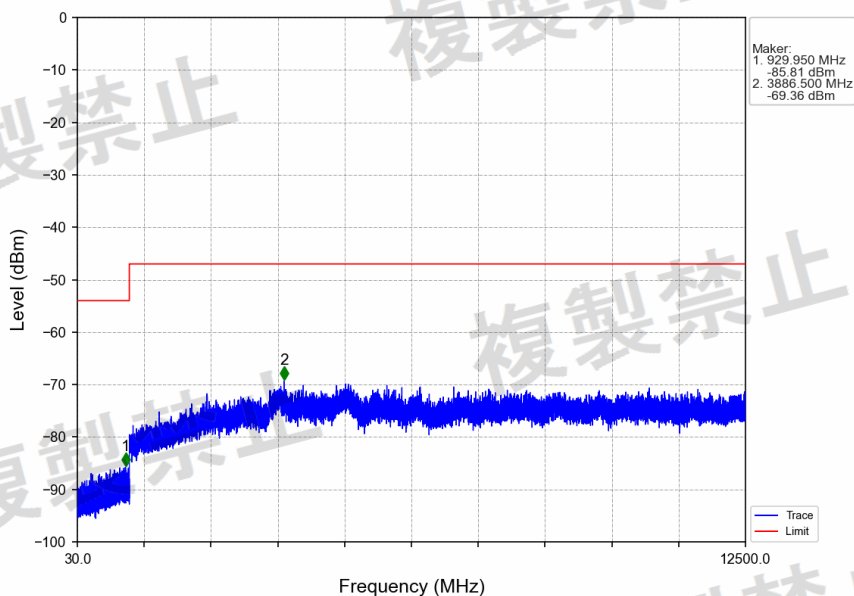
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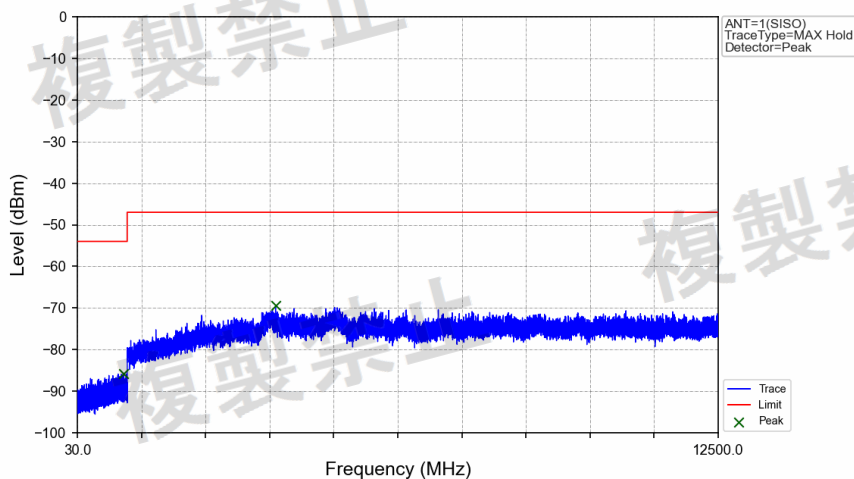
7.2.3 RxSe_NTHV



GFSK_DH5_2480MHz_Ant1_NTHV



GFSK_DH5_2480MHz_Ant1_NTHV

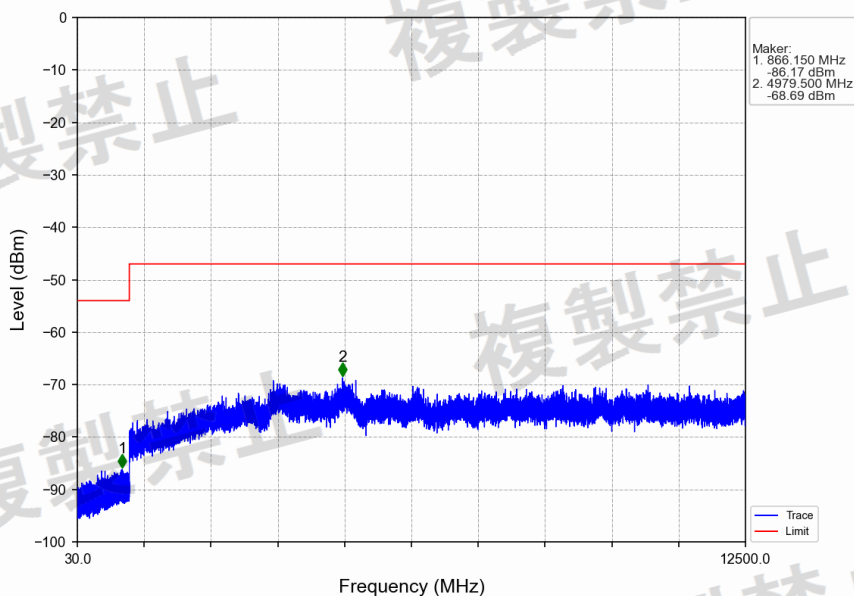


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	929.950	-85.81	/	-54	Pass
1000	12500	1	1	3886.500	-69.36	/	-47	Pass

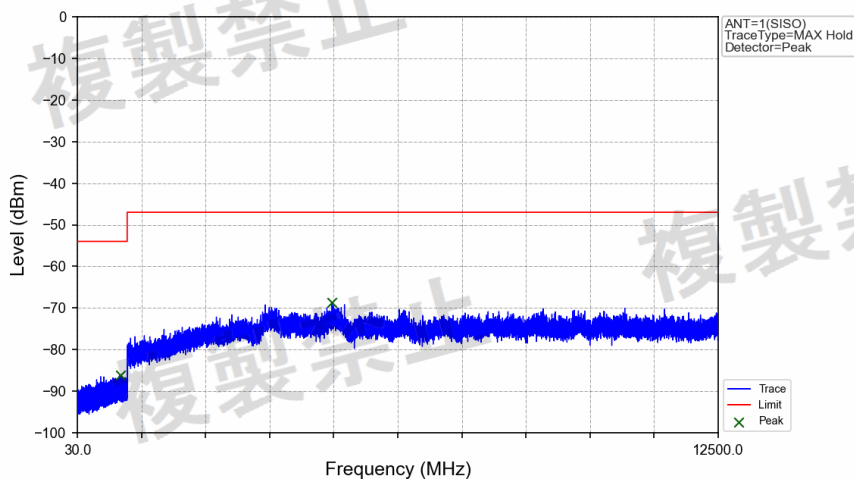
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV

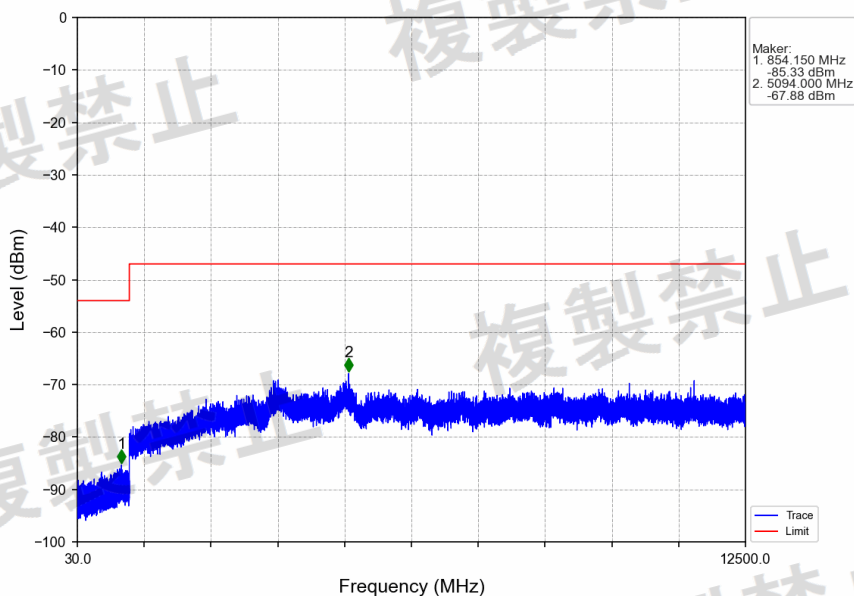


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	866.150	-86.17	/	-54	Pass
1000	12500	1	1	4979.500	-68.69	/	-47	Pass

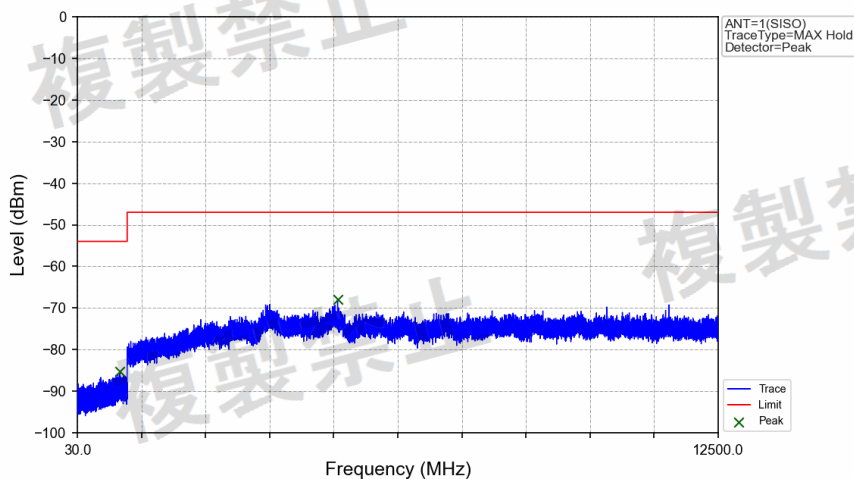
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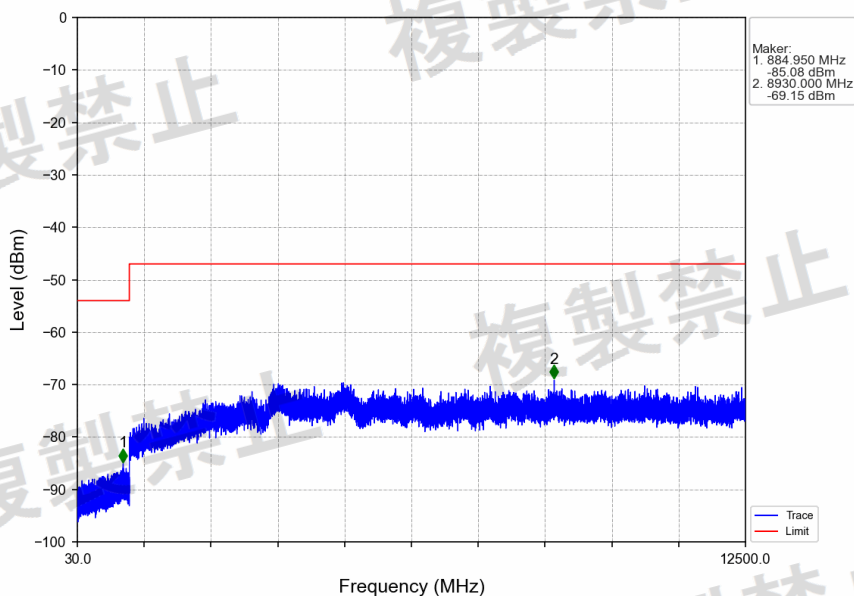


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	854.150	-85.33	/	-54	Pass
1000	12500	1	1	5094.000	-67.88	/	-47	Pass

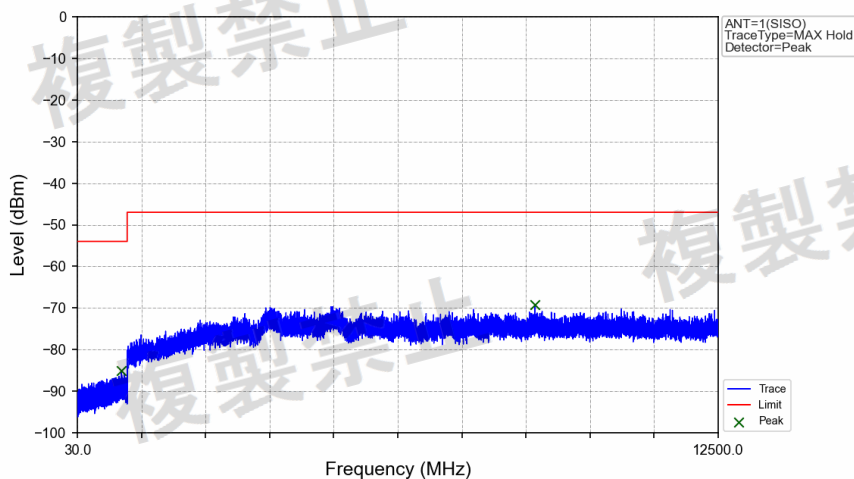
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8DPSK_3DH5_2402MHz_Ant1_NTHV



8DPSK_3DH5_2402MHz_Ant1_NTHV

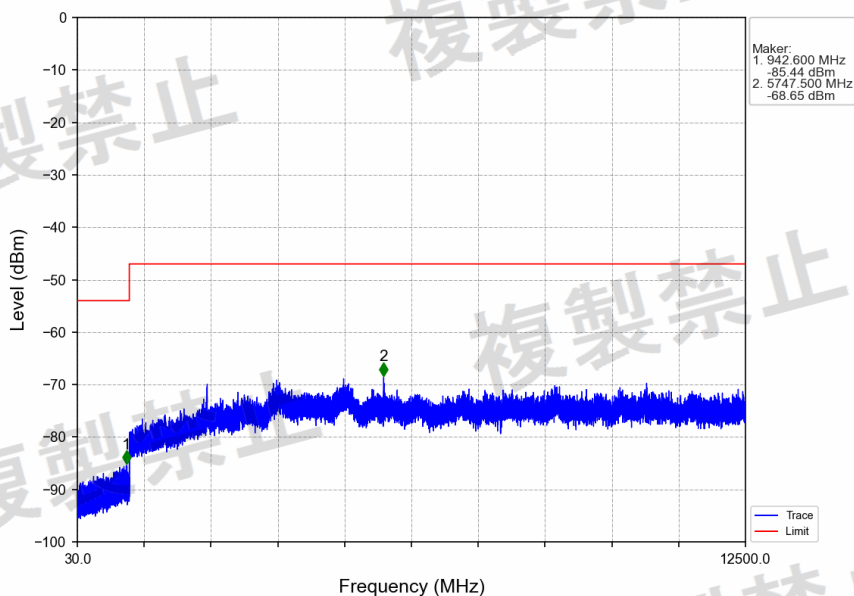


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	884.950	-85.08	/	-54	Pass
1000	12500	1	1	8930.000	-69.15	/	-47	Pass

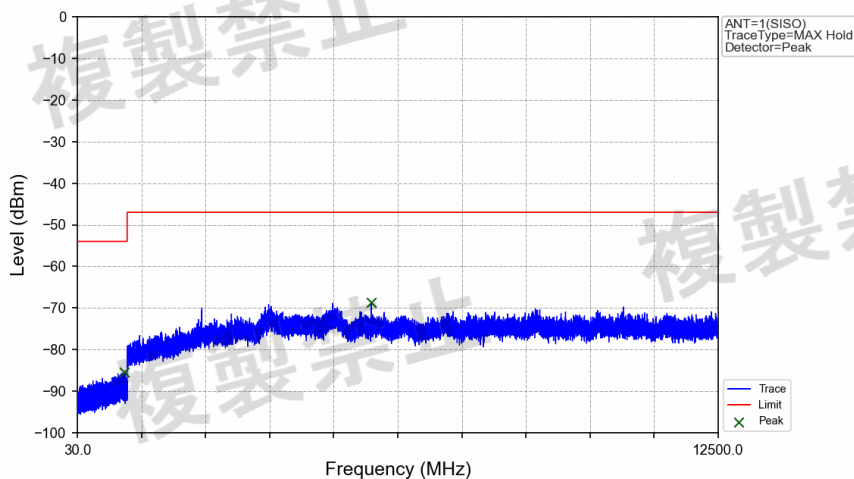
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8DPSK_3DH5_2480MHz_Ant1_NTHV



8DPSK_3DH5_2480MHz_Ant1_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	942.600	-85.44	/	-54	Pass
1000	12500	1	1	5747.500	-68.65	/	-47	Pass

- End of the Report -

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