

TEST REPORT

ARIB STD T-66 Ver.3.7 Item 19 of Article 2 Paragraph 1

Report Reference No...... : MTEB26080093-R

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Date of issue..... : **Aug.12,2026**

Testing Laboratory Name..... : **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, China

Applicant's name..... : **Shen Zhen Shi Xin Yi Shi Ye You Xian Gong Si**

Address..... : Long Hua Qu Min Zhi Jie Dao, Xin Niu She Qu Xin Niu Lu Gang
Shen Guo Ji Zhong Xin A12-07, Shen Zhen Shi, Guang Dong
Sheng, CHINA

Test specification..... :

Standard..... : **ARIB STD T-66 Ver.3.7**
Item 19 of Article 2 Paragraph 1

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Test item description..... : Multimedia Radio with Bluetooth Transmitter

Trade Mark..... : ZHIWHIS

Model/Type reference..... : ZWS-939TX

Listed Models : ZWS-886TX、ZWS-R801、ZWS-R802、ZWS-R803、

ZWS-R919、ZWS-R909、ZWS-R155、

ZWS-R15、ZWS-R16、ZWS-R17、ZWS-R18

Ratings..... : DC 3.7V by Battery
DC 5V by USB Port

Modulation : GFSK, π /4DQPSK, 8DPSK

Frequency..... : 2402~2480MHz

HW Ver..... : V1.0

SW Ver..... : V1.0

Result..... : **PASS**

TEST REPORT

Equipment under Test : Multimedia Radio with Bluetooth Transmitter

Model /Type : ZWS-939TX

Listed Models : ZWS-886TX、ZWS-R801、ZWS-R802、ZWS-R803、
ZWS-R919、ZWS-R909、ZWS-R155、
ZWS-R15、ZWS-R16、ZWS-R17、ZWS-R18

Remark : Only the model “ZWS-939TX” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and appearance colour is different.

Applicant : **Shen Zhen Shi Xin Yi Shi Ye You Xian Gong Si**

Address : Long Hua Qu Min Zhi Jie Dao, Xin Niu She Qu Xin Niu Lu Gang
Shen Guo Ji Zhong Xin A12-07, Shen Zhen Shi, Guang Dong
Sheng, CHINA

Manufacturer : **Shen Zhen Shi Xin Yi Shi Ye You Xian Gong Si**

Address : Long Hua Qu Min Zhi Jie Dao, Xin Niu She Qu Xin Niu Lu Gang
Shen Guo Ji Zhong Xin A12-07, Shen Zhen Shi, Guang Dong
Sheng, CHINA

Test Result:**PASS**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 SUMMAR

1.1 Test Standards

The tests were performed according to following standards:

[ARIB STD-T66](#): Second-Generation Low-Power Data Communication System/Wireless LAN System
[MIC Notice No.88 Appendix No. 43](#): 2.4 GHz band wide-band low-power data communication system

1.2 Test Description

ARIB STD-T66 Version 3.7/2014		
CLAUSE	Description of Test (Transmitter Parameters)	Result
3.2 (2)	Antenna Power	PASS
3.2 (3)	Tolerances for Antenna Power	PASS
3.2 (4)	Frequency Tolerance	PASS
3.2 (5)	Transmission Rate	PASS
3.2 (7)	Occupied Frequency Bandwidth	PASS
3.2 (8)	Spread Bandwidth	PASS
3.2 (6)	Spurious Emissions	PASS
3.6	Transmission Antenna Gain (EIRP Antenna Power)	N/A
3.6	Transmission Radiated Angle Width (3dB Beam width)	N/A
/	Interference prevention function	PASS
/	Carrier Sensing function	N/A
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	PASS
Note: (1) N/A is an abbreviation for Not Applicable. (2) N/T means this test item is not tested.		

1.3 TEST ENVIRONMENT

1.3.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, China

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.3.2 Test Facility

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

CNAS-Lab Code: L3573

1.4 Measurement Uncertainty

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	$\pm 1.62 \cdot 10^{-6}$
Total RF power, conducted	$\pm 0.8\text{dB}$
Spurious emissions, conducted	$\pm 0.8\text{dB}$
DC and low frequency voltages	$\pm 0.05\%$
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$

2 GENERAL INFORMATION

2.1 General Remarks

Date of receipt of test sample	:	2026.07.29
Testing commenced on	:	2026.07.30
Testing concluded on	:	2026.08.12

2.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Voltage	Normal Voltage	DC 3.7V
	High Voltage	DC 4.07V
	Low Voltage	DC 3.33V
Other	Normal Temperature	25°C
	Relative Humidity	55 %
	Air Pressure	989 hPa

Note: As the EUT was powered by DC12V from Adapter, and with the voltage stabilizing circuit used, the chip voltage received floating not exceed $\pm 1\%$ of nominal condition when working on extreme voltage, so all test performed at nominal voltage only.

2.3 General Description of EUT

Product Name:	Multimedia Radio with Bluetooth Transmitter
Model:	ZWS-939TX
Power supply:	DC 3.7V by Battery DC 5V by USB Port
BT	
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency	2402MHz -2480MHz
Channel number	79
Antenna Gain	PCB Antenna -0.68dBi

Note: For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.4 Description of Test Modes

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

For Radiated Emission	
Final Test Mode	Description
Mode 1	GFSK Mode(CH00 CH39 CH78)

2.5 Measurement Instruments List

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum Analyzer	Agilent	9020A	MY48010446	2026/02/28	2027/02/27
2	Power Meter	R&S	NRVS	100696	2026/02/28	2027/02/27
3	Power Meter	R&S	NRVS	100697	2026/02/28	2027/02/27
4	Test Software	Censheng	WCS-WCN	2024.7.25	N/A	N/A

Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".

Calibration Information:	Article 24-2, Paragraph 4 of the Radio Act
Calibration unit:	Ti Testing & Certification Group Co., Ltd. Shenzhen Branch
Address:	Room 103, Building B, Hongji High tech Intelligent Industrial Park, No. 1008 Songbai Road, Nanshan District, Shenzhen
CNAS:	L17117

2.6 Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test software Version	Test program: FCC Test tool		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameter	DEF	DEF	DEF

2.7 Test Voltage

POWER SUPPLY VOLTAGE FLUCTUATION TEST

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.7V	DC 4.07V	DC 3.33V
Output To RF Module	DC 3.30V	DC 3.30V	DC 3.30V
Voltage Variation (%)	--	--	--

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

The sample power supply was confirmed that input voltage variation at the radio unit in the radio equipment to be tested is less than +1% against a variation of +10% at the input voltage from the external power supply to the radio equipment, and the radio equipment was designed so as to be operated in a specified voltage variation limit within +10%, Radio can only tested at rated voltage.

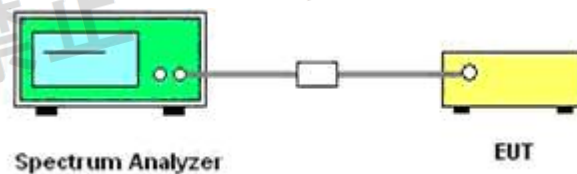
3 Test conditions and Results

3.1 Frequency Error

LIMIT

Tolerance of frequency shall be $\pm 50 \times 10^{-6}$.

TEST CONFIGURATION



TEST PROCEDURE

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 - Centre Frequency: The centre frequency of the channel under test.
 - Resolution BW: 10 KHz.
 - Video BW: 10 KHz.
 - Span: 1MHz.
 - Detector: Peak.
 - Trace Mode: Max Hold.
- When the trace is complete, find the peak value of the power envelope and record.

TEST RESULTS

See Appendix I

3.2 Antenna Power

Standard Applicable

Type	Limit
DTS	10mW
OFDM OBW<26MHz, DS	10mW/MHz
OFDM OBW 26-40MHz	5mW/MHz
Tolerance	+20%

Upper Limit of EIRP for Modulation Systems

Modulation System	Frequency Band used	Antenna power (Max.)	EIRP (max.)	
			Omnidirectional case	Directional case
DS, OFDM	2400~2483.5MHz	10mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
FH, DS-FH, FH-OFDM	2400~2483.5MHz	3mW/MHz	6.91 dBm/MHz	16.91 dBm/MHz
	Excluding 2427~2470.75MHz	10mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
Other than the above	2400~2483.5MHz	10mW	12.14 dBm	22.14 dBm

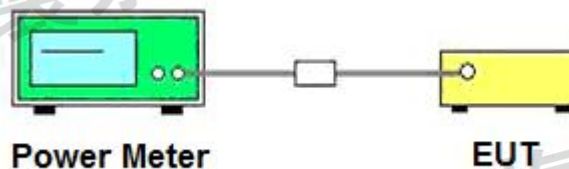
Measuring Instruments

Please refer to section 6 of equipments list in this report.

Test Procedures

- EUT have transmitted continuous maximum power
- Antenna Power Error is definition that actual measure antenna power tolerance +20% power range that base on manufacturer declare the conducted power density.
- When the trace is complete, find the peak value of the power envelope and record.

Test Setup



EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

TEST RESULTS

See Appendix II

3.3 Occupied Frequency Bandwidth

Standard Applicable

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

Measuring Instruments

Please refer to section 6 of equipments list in this report.

Test Procedures

a. Set EUT work in test mode as described in clause 2.4.

b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

RBW/VBW= 100 KHz/300KHz for WIFI.

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

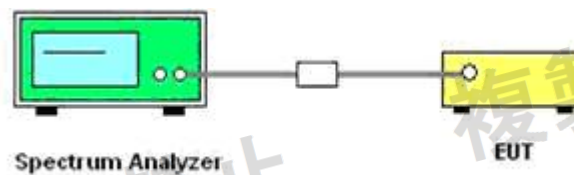
Sweep mode: Continuous sweeping.

Detector: Peak.

Trace Mode: Max Hold.

c. When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

Test Setup Layout



EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

TEST RESULTS

See Appendix III

3.4 Spread Bandwidth

Standard Applicable

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more.

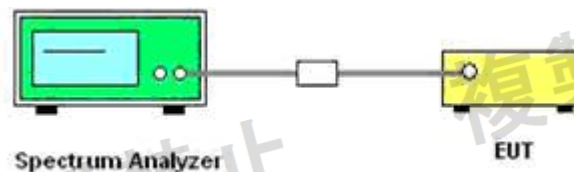
Measuring Instruments

Please refer to section 6 of equipments list in this report.

Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the channel under test.
RBW/VBW= 100 KHz/300KHz for WIFI.
Span: Wide enough to cover the complete power envelope of the signal of the EUT.
Detector: Peak.
Trace Mode: Max Hold.
- When the trace is complete, measure the occupied bandwidth (90% bandwidth) with spectrum analyzer's bandwidth measure function.

Test Setup Layout



EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

TEST RESULTS

See Appendix IV

3.5 Transmitter Spurious Emissions (conducted)

Standard Applicable

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

STD-T66

a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW (-16dBm) or less

b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW (-26 dBm) or less

STD-T33

a. $2,458\text{MHz} \leq f \leq 2,471\text{MHz}$ and $2,497\text{MHz} < f \leq 2,510\text{MHz}$ 25 μW (-16dBm) or less

b. $2,458\text{MHz} > f$ and $2,510\text{MHz} < f$ 2.5 μW (-26 dBm) or less

Test Procedures

a. Set EUT work in test mode as described in clause 2.4.

b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1GHz: RBW/VBW= 100 KHz/ 100KHz

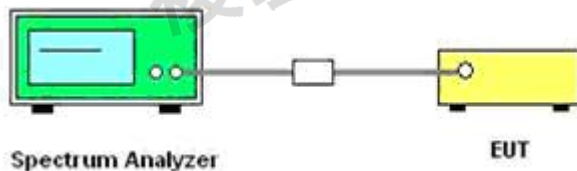
Above 1GHz: RBW/VBW= 1MHz / 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

c. All the emissions from 30MHz to 13GHz were measured and record.

Test Setup Layout



EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

TEST RESULT

See Appendix VI

3.6 Secondary Radiated Emissions

Standard Applicable

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4nW(-54dBm) or less at a frequency below 1 GHz and 20 nW(-47dBm) or less at a frequency of 1 GHz or higher as measured using the circuit

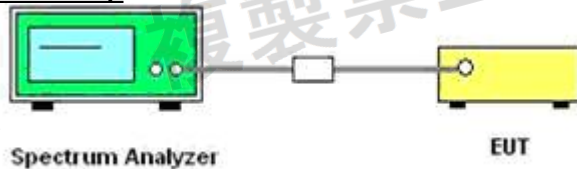
Measuring Instruments

Please refer to section 6 of equipments list in this report.

Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Resolution BW: 100 KHz for frequency below 1GHz and 1MHz for frequency above 1GHz
Video BW: 100 KHz for frequency below 1GHz and 1MHz for frequency above 1GHz
Detector: Peak.
Trace Mode: Max Hold.
- All the emissions from 30MHz to 13GHz were measured and record.

Test Setup



EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

TEST RESULT

See Appendix VII

3.7 Carrier sensing function

Standard Applicable

Item	Limits
Carrier Sense	Good - EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

Measuring Instruments

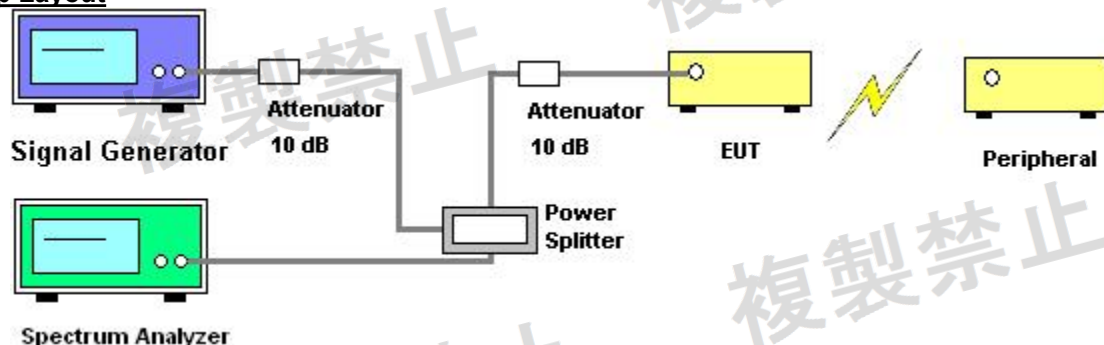
Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Span	0 MHz
Sweep	Continuous
Detector	Peak
Trigger mode	Video

Test Procedures

- SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as; RB: 1MHz / VB: 1MHz / SPAN: 50MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
- SSG RF Signal On.
- EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

Test Setup Layout



EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

Test Result

Not Applicable

3.8 Interference prevention function

Standard Applicable

Item	Limits
Identification code	≥ 48 bits

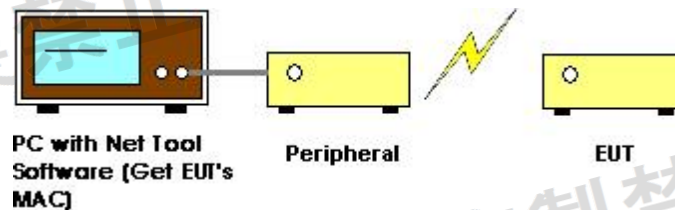
Measuring ID Code Software

PC with NetTool	Setting
MAC IP List	MAC Scan

Test Procedures

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

Test Setup Layout



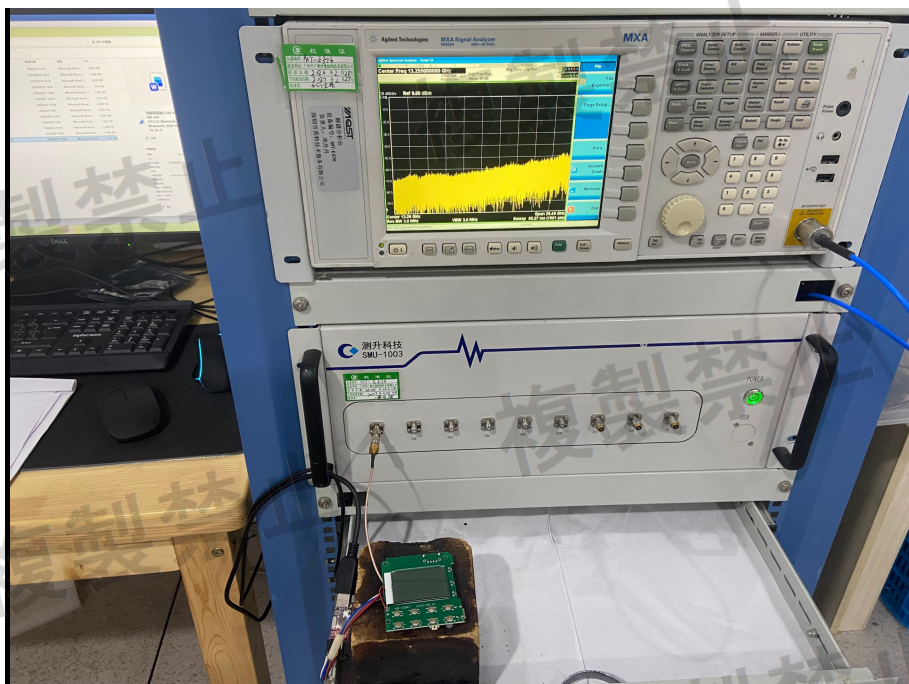
EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

Test Result

MAC Address: E3:D4:A1:67:27:35
Complies.

4 Test Setup Photos of the EUT



5 Photos of the EUT

See EUT Reports.

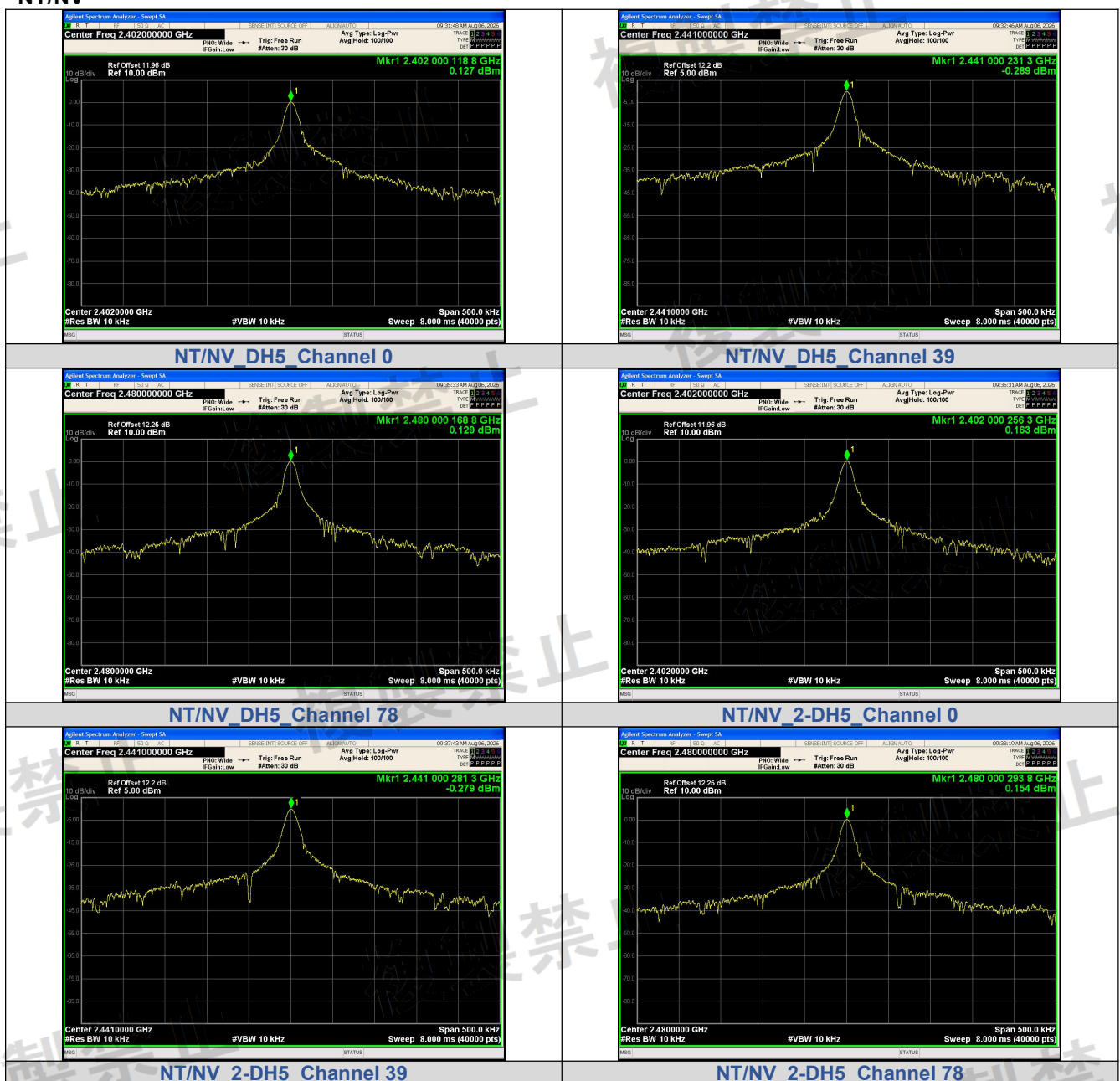
APPENDIX I. Frequency Tolerance

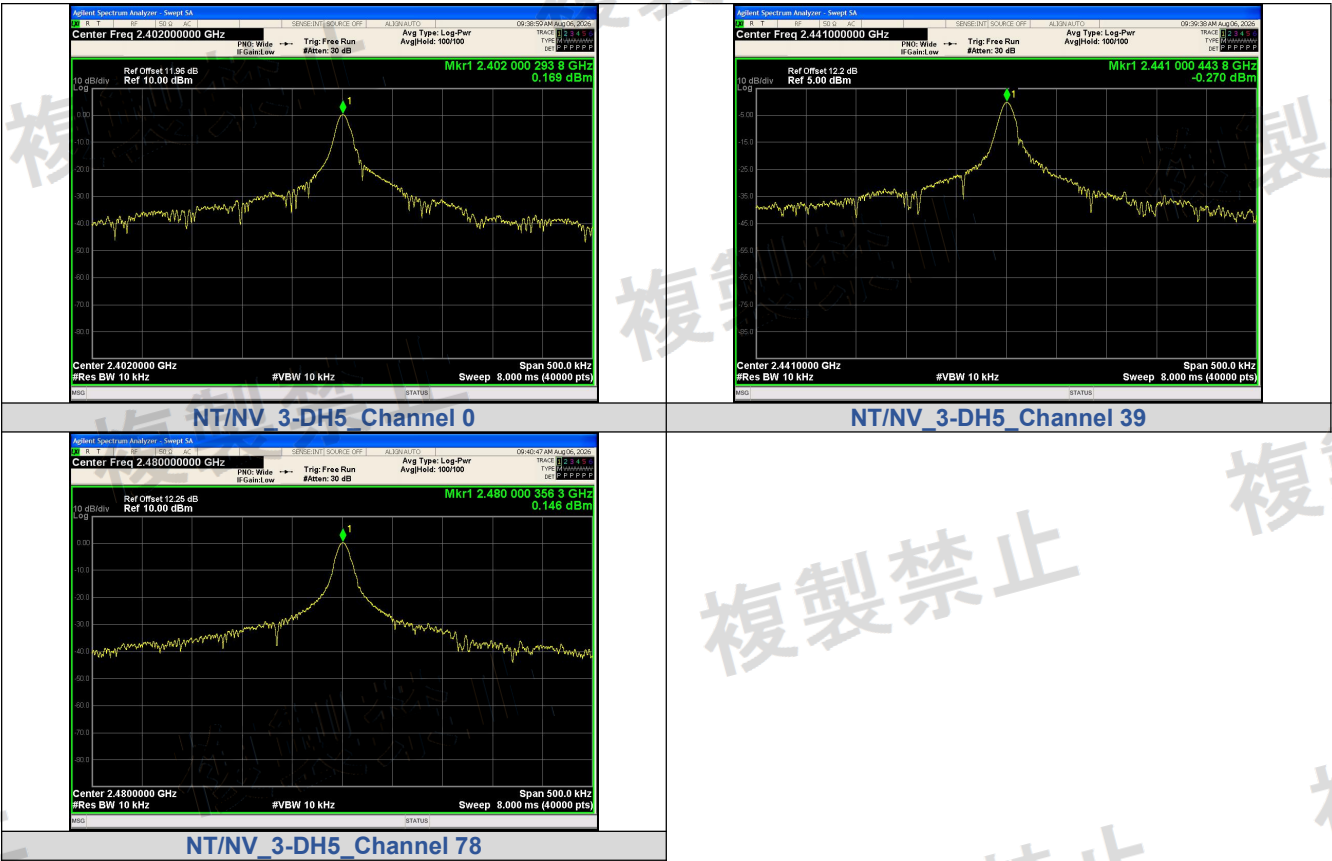
Test Result

Condition	Mode	Ch.	Center Frequency (MHz)	Measured Value (MHz)	Result (ppm)	Limit (ppm)	Result
NT/NV	GFSK(CW)	0	2402	2402.0001188	0.05	± 50	PASS
NT/NV	GFSK(CW)	39	2441	2441.0002313	0.09	± 50	PASS
NT/NV	GFSK(CW)	78	2480	2480.0001688	0.07	± 50	PASS
NT/NV	$\pi/4$ DQPSK(CW)	0	2402	2402.0002563	0.11	± 50	PASS
NT/NV	$\pi/4$ DQPSK(CW)	39	2441	2441.0002813	0.12	± 50	PASS
NT/NV	$\pi/4$ DQPSK(CW)	78	2480	2480.0002938	0.12	± 50	PASS
NT/NV	8DPSK(CW)	0	2402	2402.0002938	0.12	± 50	PASS
NT/NV	8DPSK(CW)	39	2441	2441.0004438	0.18	± 50	PASS
NT/NV	8DPSK(CW)	78	2480	2480.0003563	0.14	± 50	PASS

Test Graphs

NT/NV



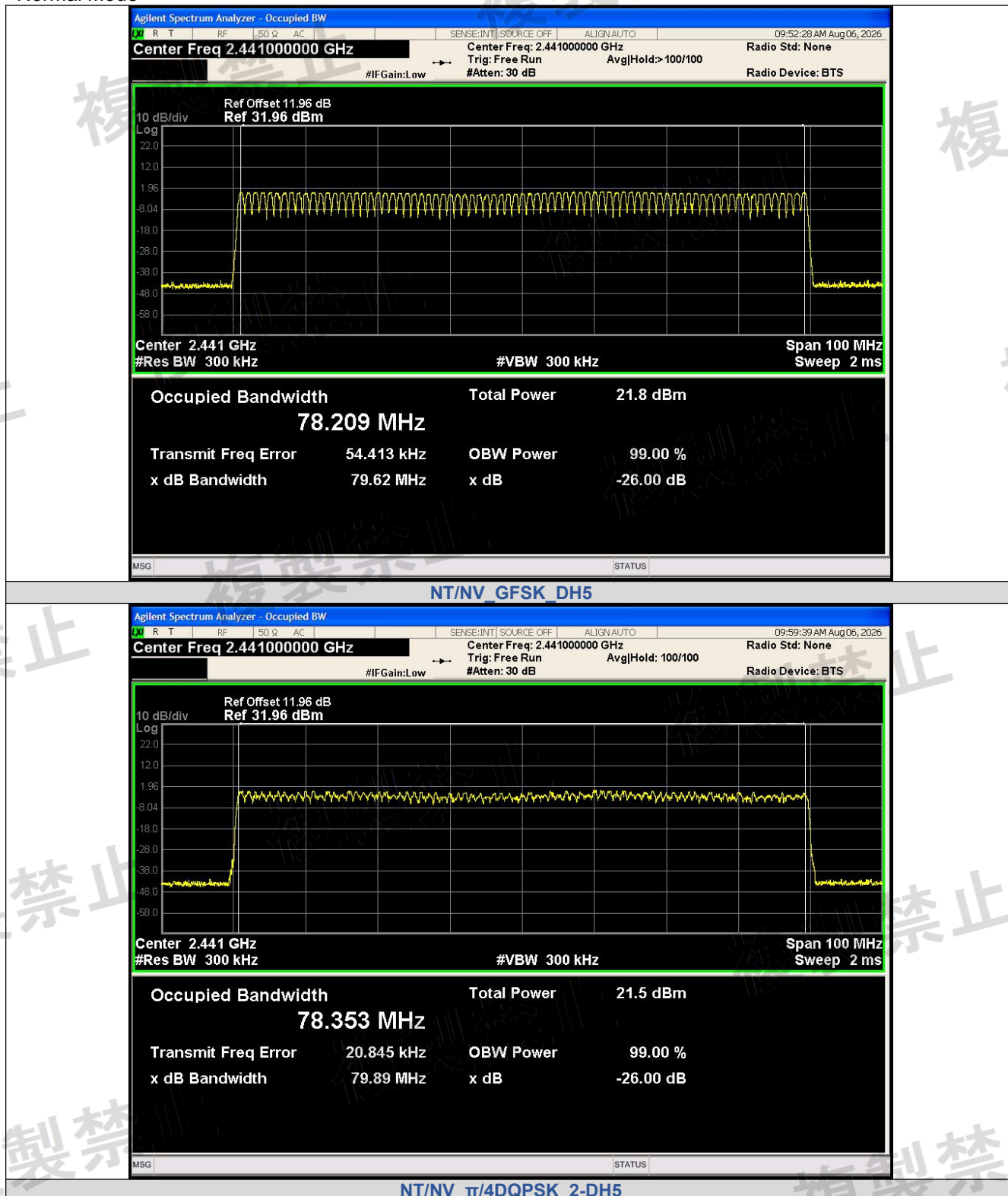


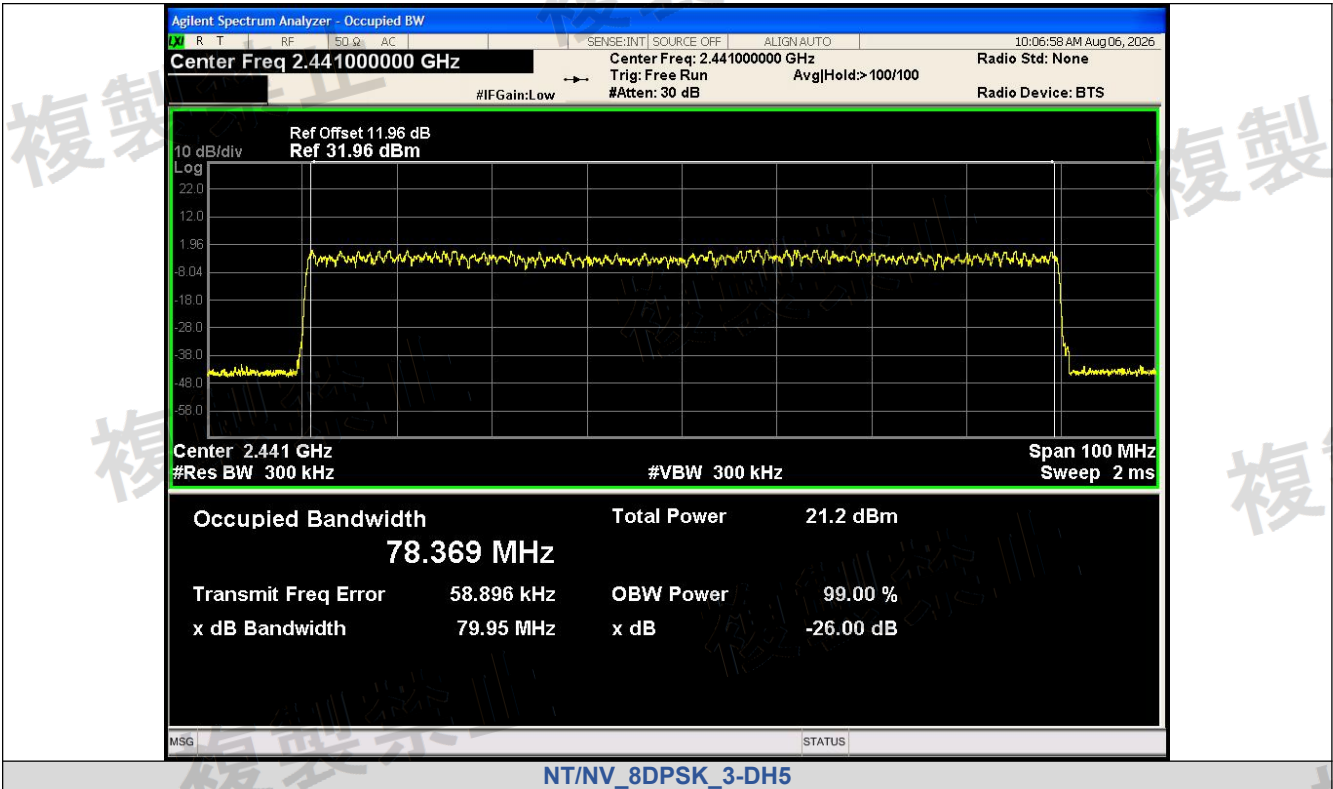
APPENDIX III. Occupied Bandwidth (99% BW)Test Result
Normal Mode

Condition	Modulation	99% BW (MHz)	Limit (MHz)	Result
NT/NV	GFSK_DH5	78.209	83.5	PASS
	$\pi/4$ DQPSK_2-DH5	78.353		PASS
	8DPSK_3-DH5	78.369		PASS

Test Graphs

Normal Mode





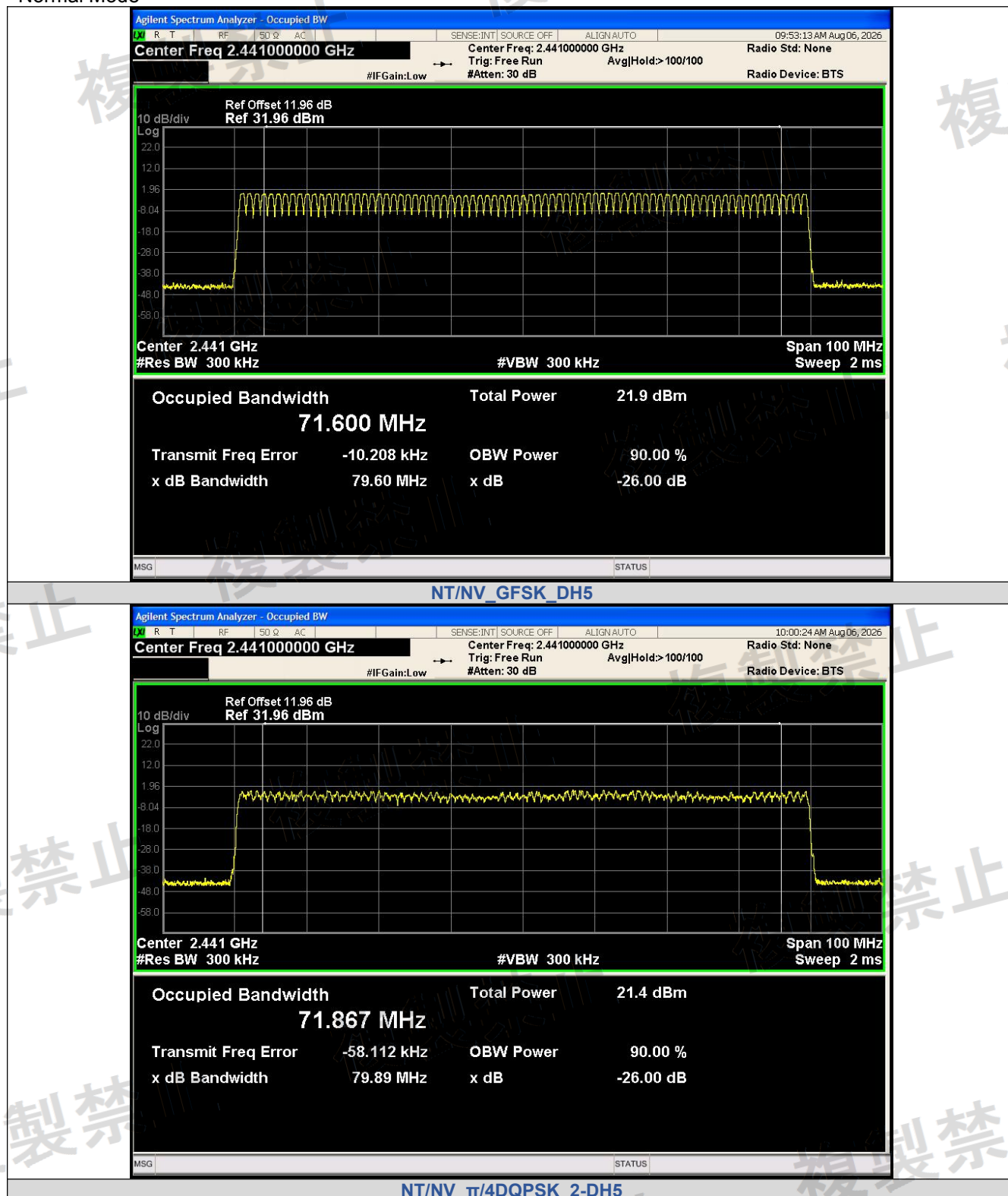
APPENDIX IV. Spreading Bandwidth (90% BW)

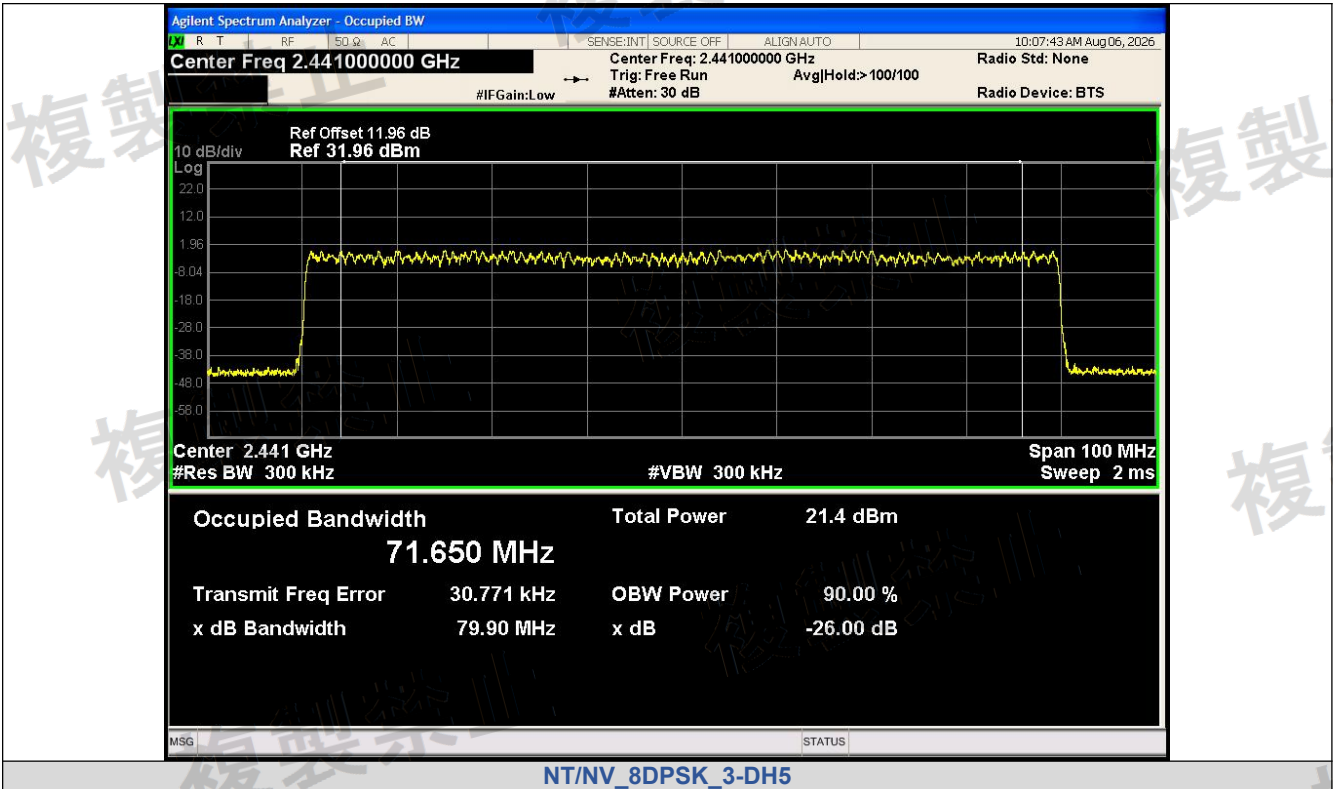
Test Result
Normal Mode

Condition	Mode	90% SBW (MHz)	Result
NT/NV	GFSK_DH5	71.600	PASS
NT/NV	$\pi/4$ DQPSK_2-DH5	71.867	PASS
NT/NV	8DPSK_3-DH5	71.650	PASS

Test Graphs

Normal Mode





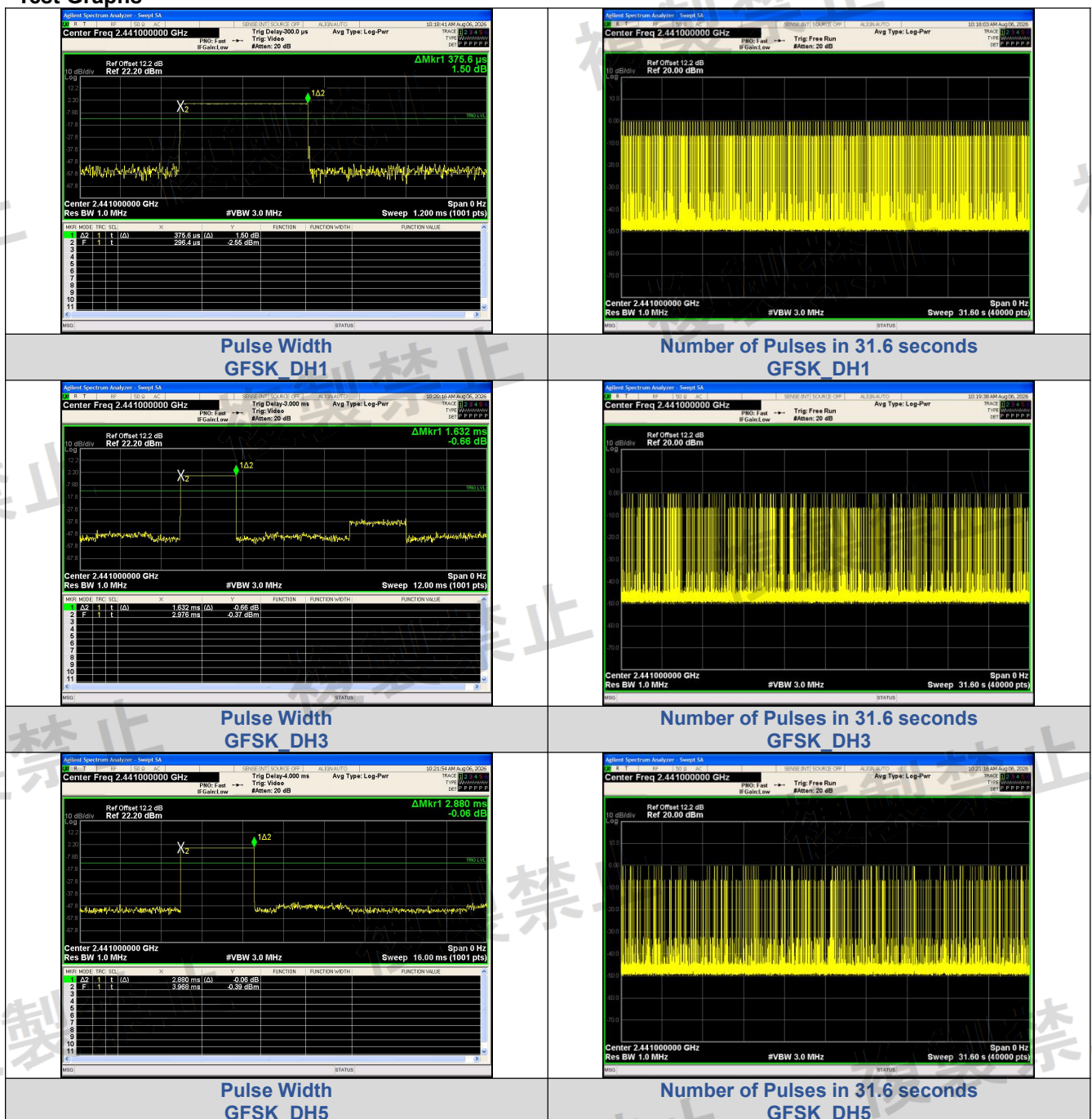
APPENDIX V. Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3756	318	119.44	< 400	PASS
	DH3		1.632	159	259.49		PASS
	DH5		2.880	116	334.08		PASS
$\pi/4$ DQPSK	2-DH1		0.3852	318	122.49		PASS
	2-DH3		1.632	158	257.86		PASS
	2-DH5		2.896	108	312.77		PASS
8DPSK	3-DH1		0.3864	319	123.26		PASS
	3-DH3		1.632	155	252.96		PASS
	3-DH5		1.632	161	262.75		PASS

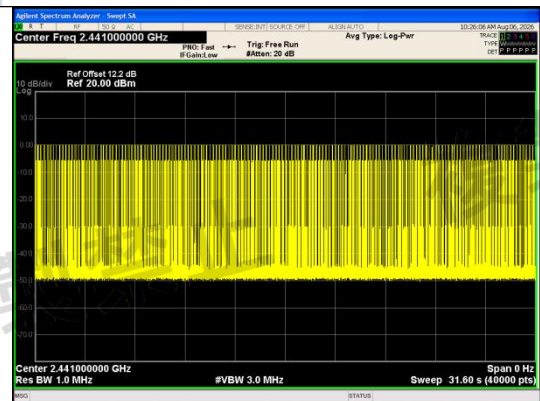
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds

Test Graphs

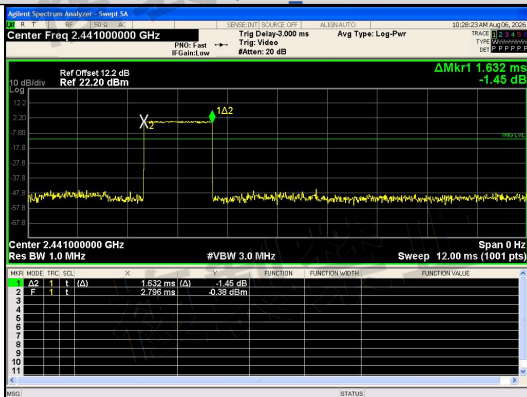




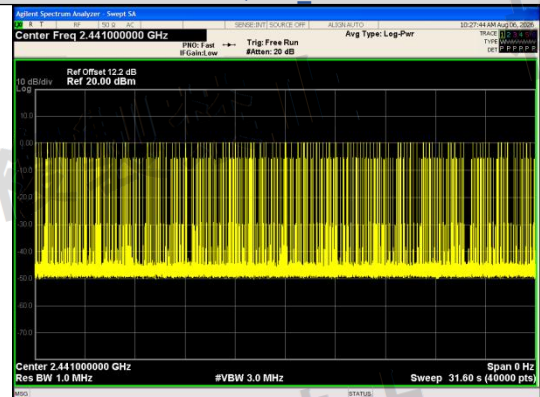
Pulse Width
 $\pi/4$ DQPSK_2-DH1



Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1



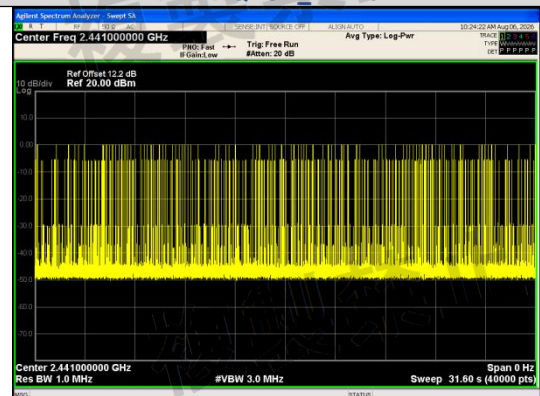
Pulse Width
 $\pi/4$ DQPSK_2-DH3



Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3



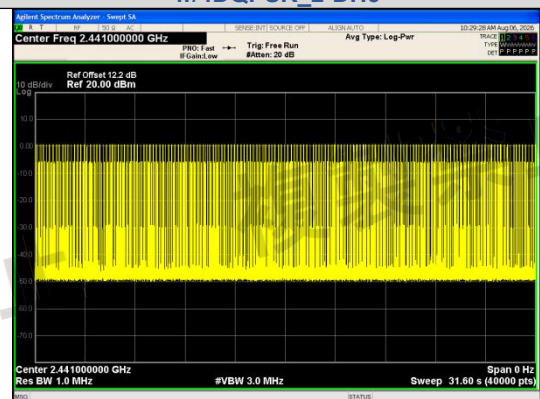
Pulse Width
 $\pi/4$ DQPSK_2-DH5



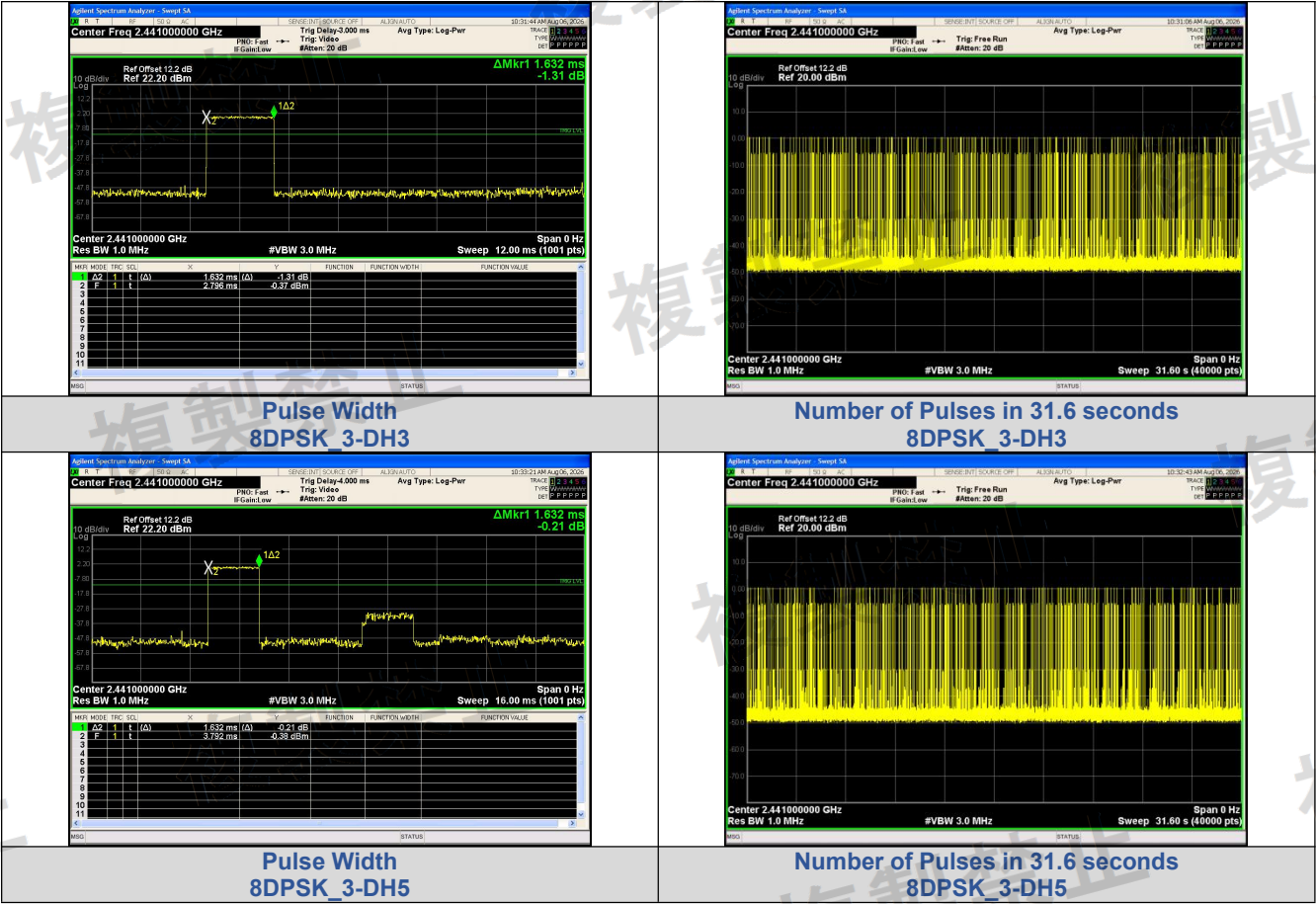
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
8DPSK_3-DH1



Number of Pulses in 31.6 seconds
8DPSK_3-DH1



APPENDIX VI. Spurious Emissions**Test Result
GFSK_DH5**

Condi on	Freque ncy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/M Hz)
		Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	
NT/NV	30 to 2387	2384.8 79	-48.667	0.014	2064.5 46	-49.502	0.011	2318.0 54	-49.396	0.011	2.5
NT/NV	2387 to 2400	2399.9 47	-41.755	0.067	2399.9 66	-42.012	0.063	2399.9 67	-43.438	0.045	25
NT/NV	2483.5 to 2496.5	2485.3 50	-44.529	0.035	2487.6 00	-44.132	0.039	2488.6 41	-44.328	0.037	25
NT/NV	2496.5 to 12500	9848.4 40	-39.487	0.113	9620.8 49	-39.487	0.113	9664.8 66	-39.800	0.105	2.5
NT/NV											None
Result:PASS											

 π /4DQPSK_2-DH5

Condi on	Freque ncy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/M Hz)
		Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	
NT/NV	30 to 2387	2298.3 72	-49.837	0.01	2385.9 39	-49.037	0.012	2385.9 39	-49.195	0.012	2.5
NT/NV	2387 to 2400	2399.9 64	-34.917	0.322	2399.9 84	-32.568	0.554	2399.9 90	-35.736	0.267	25
NT/NV	2483.5 to 2496.5	2494.1 01	-44.668	0.034	2484.3 39	-44.202	0.038	2487.8 47	-42.576	0.055	25
NT/NV	2496.5 to 12500	9628.8 52	-39.811	0.104	9632.8 54	-40.388	0.091	9796.4 19	-39.552	0.111	2.5
NT/NV											None
Result:PASS											

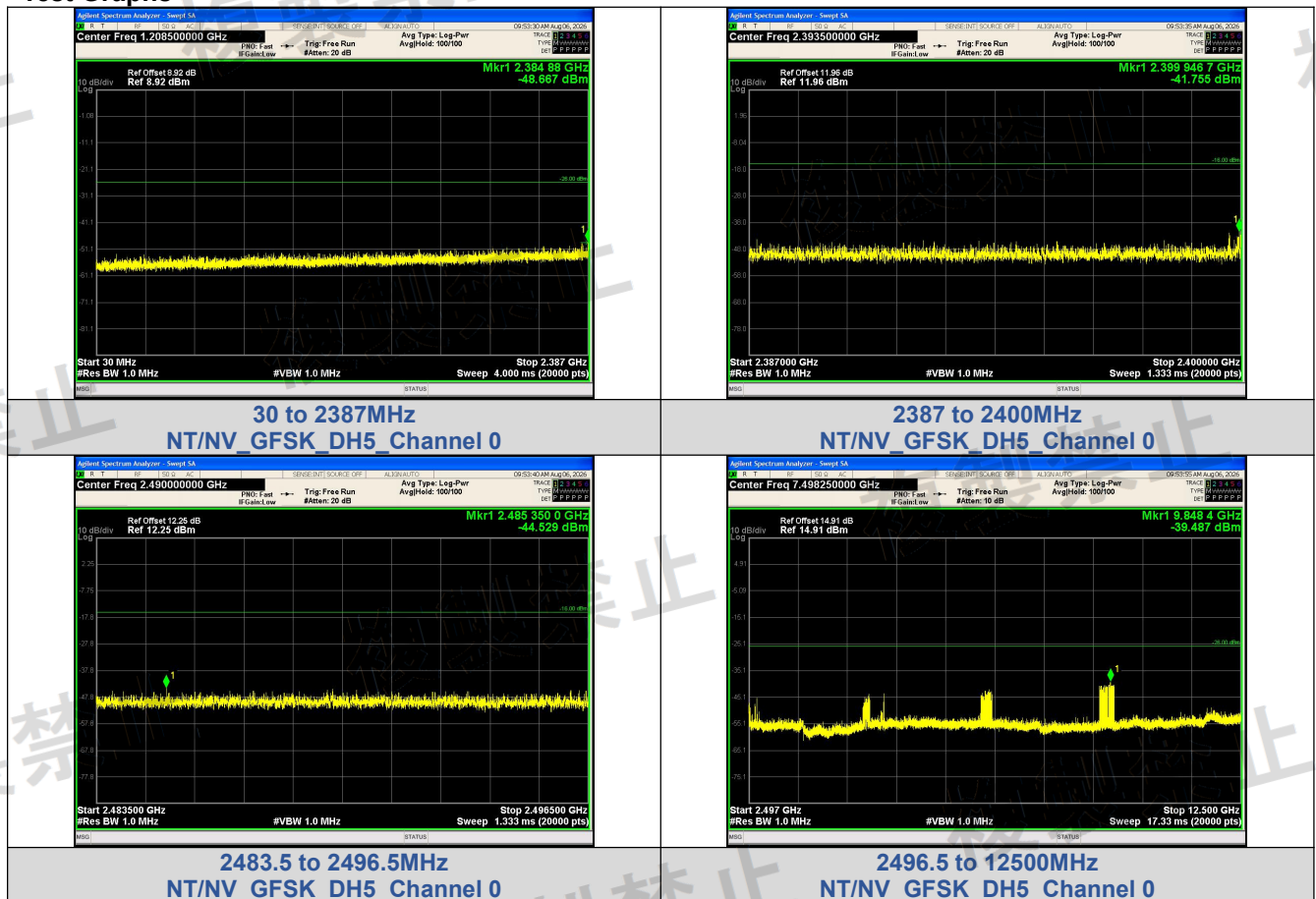
8DPSK_3-DH5

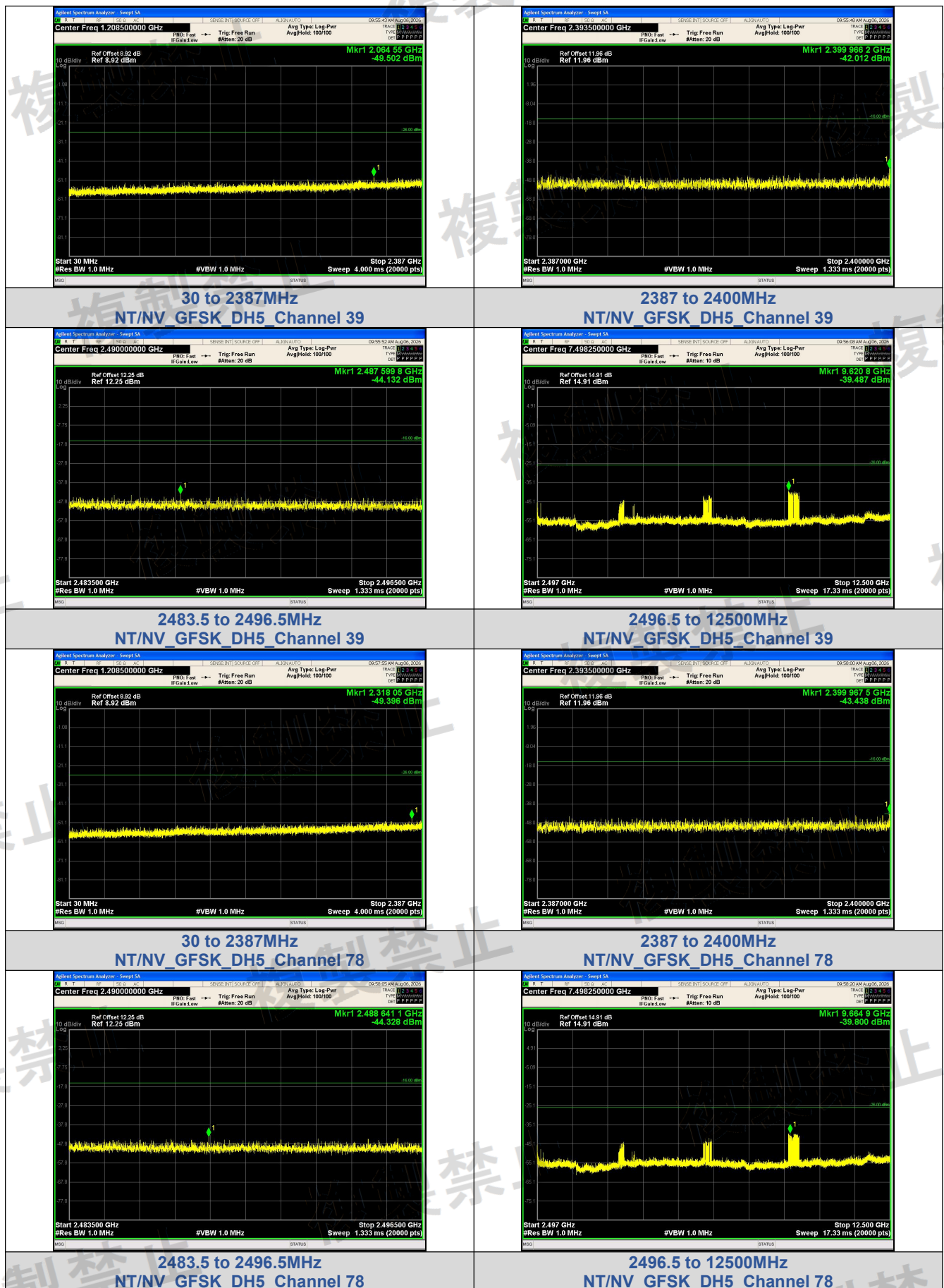
Condi on	Freque ncy Range	Lowest Channel			Middle Channel			Highest Channel			Limit (μ W/M Hz)
		Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	Peak (Mhz)	Measu red Value (dbm)	Measu red Value (μ W/M Hz)	
NT/NV	30 to 2387	2308.6 26	-49.137	0.012	2382.8 75	-49.045	0.012	2378.5 14	-49.795	0.01	2.5
NT/NV	2387 to 2400	2395.8 10	-44.386	0.036	2399.9 40	-34.935	0.321	2398.0 14	-44.028	0.04	25
NT/NV	2483.5 to 2496.5	2485.7 86	-44.336	0.037	2485.9 51	-44.901	0.032	2486.7 55	-44.843	0.033	25
NT/NV	2496.5 to 12500	9612.8 46	-39.892	0.103	9760.4 05	-39.656	0.108	9628.8 52	-39.554	0.111	2.5
NT/NV											None
Result:PASS											

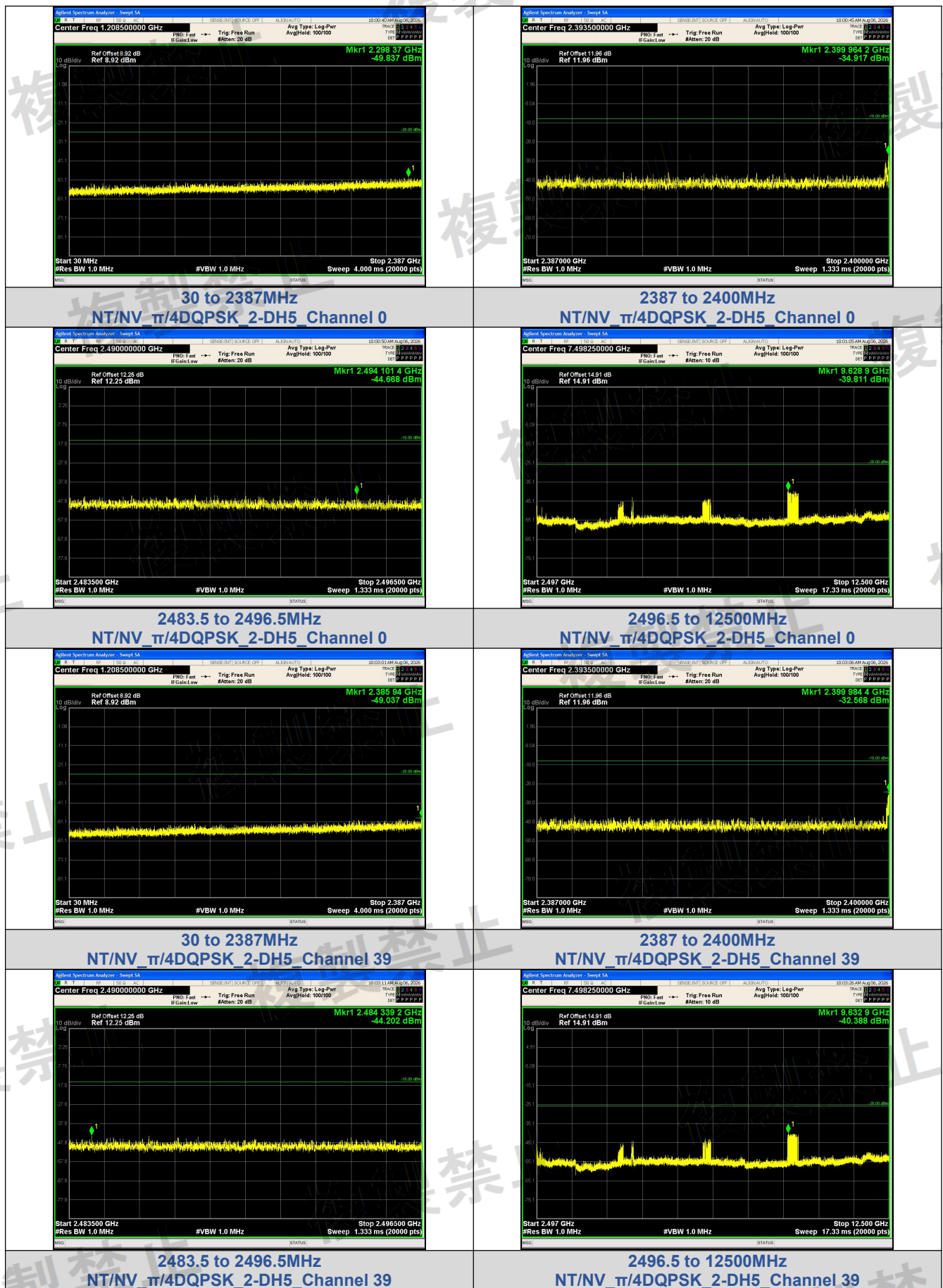
Hopping

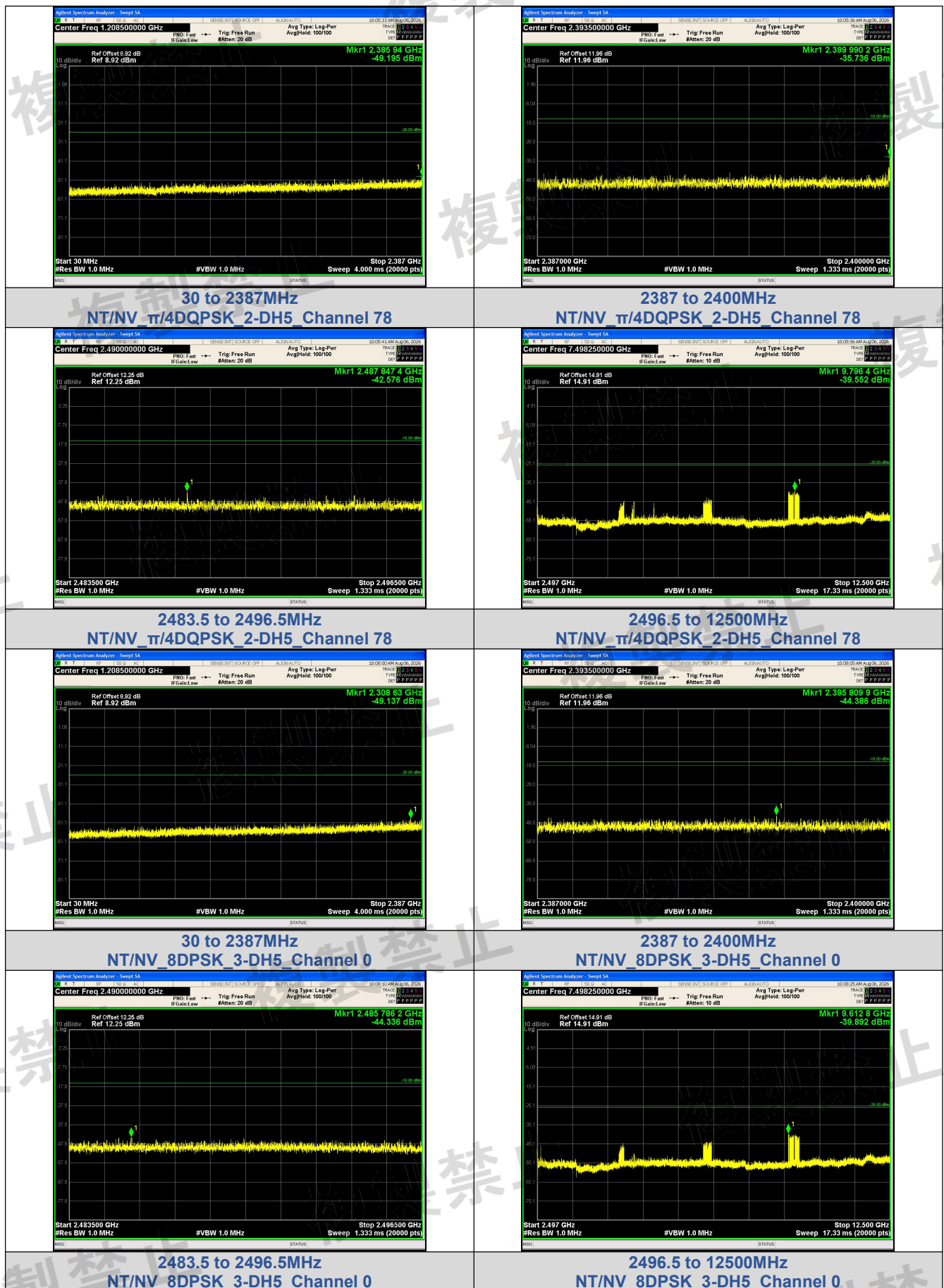
Mode	Ch.	Range	Peak (MHz)	Emission (dBm)	Limit	Margin (dBm)	Result
GFSK_DH5	Hopping	30 to 2387	2384.878594	-48.667	-26	-22.67	PASS
GFSK_DH5	Hopping	2387 to 2400	2399.946697	-41.755	-16	-25.76	PASS
GFSK_DH5	Hopping	2483.5 to 2496.5	2485.349993	-44.529	-16	-28.53	PASS
GFSK_DH5	Hopping	2496.5 to 12500	9848.439747	-39.487	-26	-13.49	PASS
$\pi/4$ DQPSK_2-DH5	Hopping	30 to 2387	2298.372369	-49.837	-26	-23.84	PASS
$\pi/4$ DQPSK_2-DH5	Hopping	2387 to 2400	2399.964248	-34.917	-16	-18.92	PASS
$\pi/4$ DQPSK_2-DH5	Hopping	2483.5 to 2496.5	2494.10138	-44.668	-16	-28.67	PASS
$\pi/4$ DQPSK_2-DH5	Hopping	2496.5 to 12500	9628.851943	-39.811	-26	-13.81	PASS
8DPSK_3-DH5	Hopping	30 to 2387	2308.625831	-49.137	-26	-23.14	PASS
8DPSK_3-DH5	Hopping	2387 to 2400	2395.80989	-44.386	-16	-28.39	PASS
8DPSK_3-DH5	Hopping	2483.5 to 2496.5	2485.786164	-44.336	-16	-28.34	PASS
8DPSK_3-DH5	Hopping	2496.5 to 12500	9612.845542	-39.892	-26	-13.89	PASS

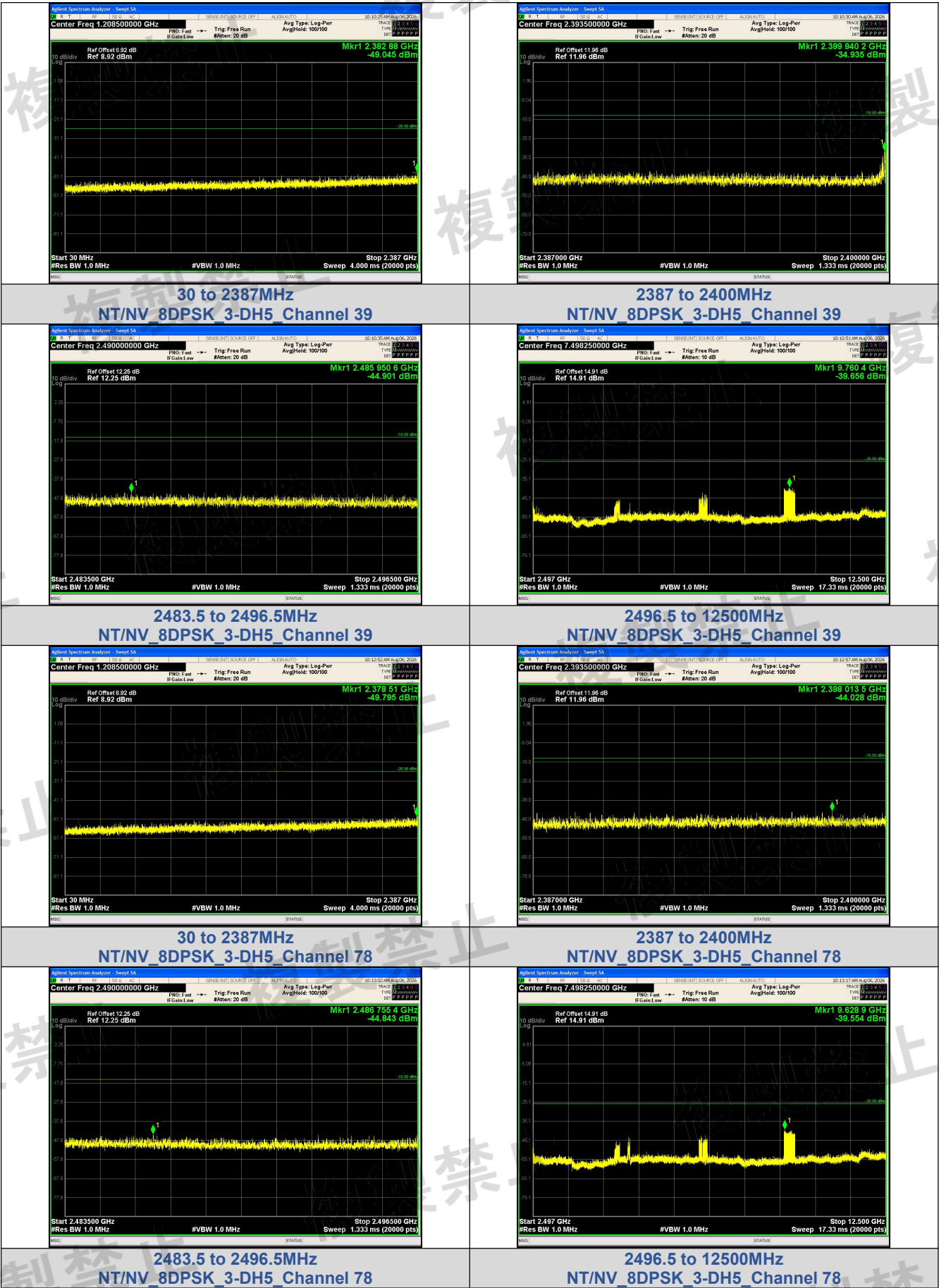
Test Graphs

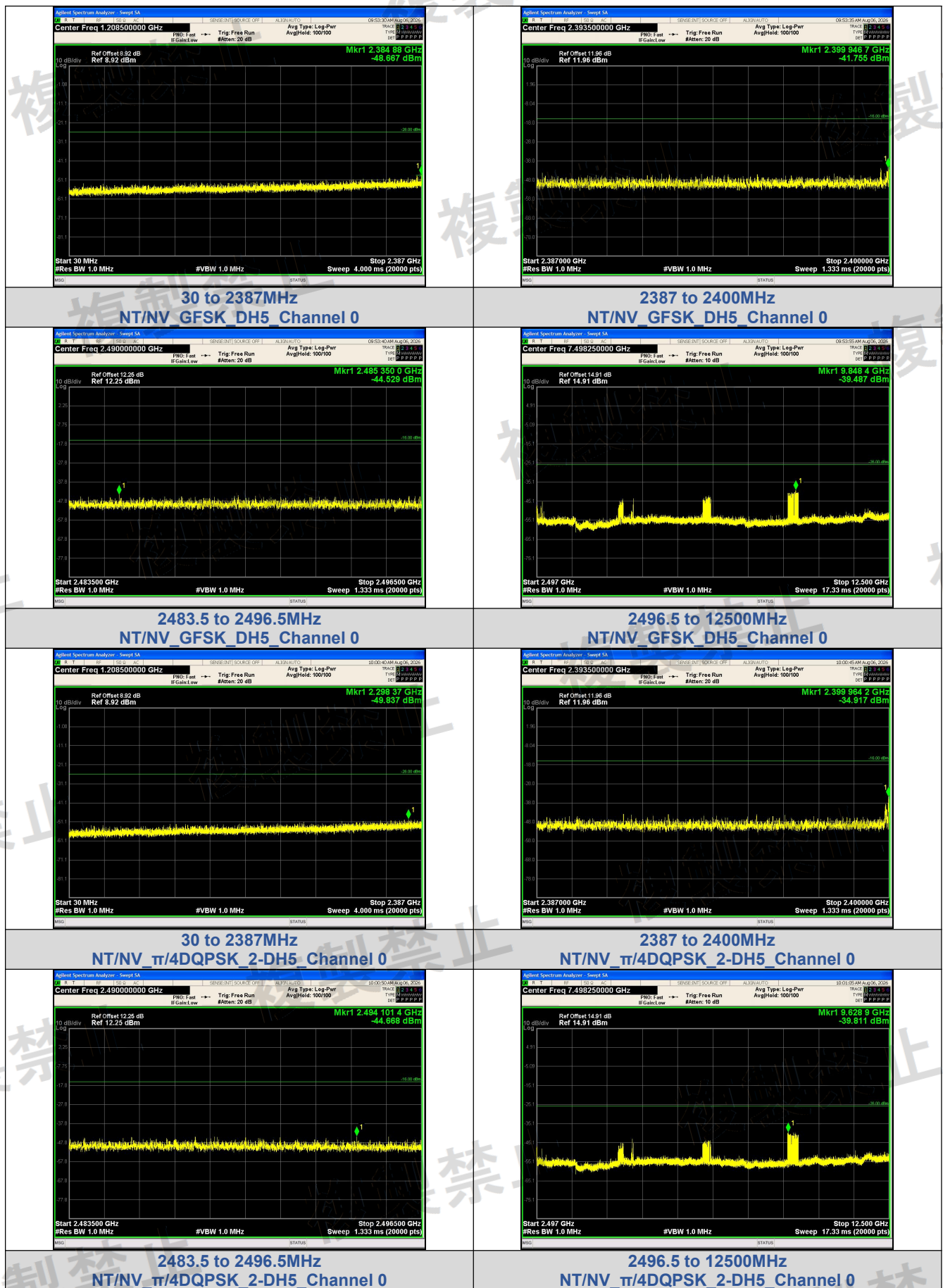


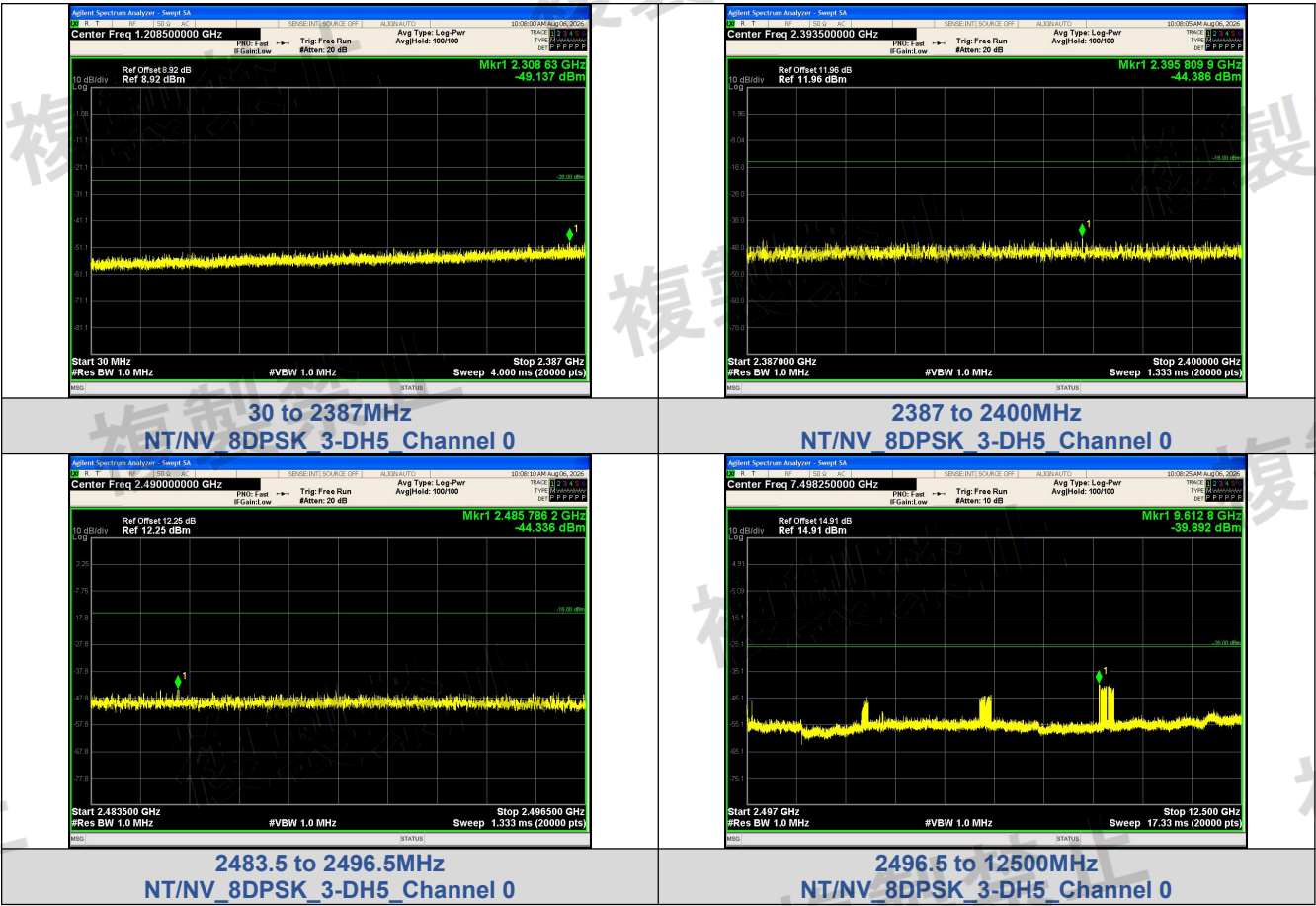












APPENDIX VII. Spurious Emissions of Receiver**Test Result****Normal mode_GFSK_DH5**

Condition	Channel	Frequency Range (MHz)	Peak (MHz)	Measured Value (dBm)	Limit		Result
					dBm	nW	
NT/NV	0	30 to 1000	500.024	-78.748	-54	≤4	PASS
		1000 to 12500	12429.464	-62.702	-47	≤20	PASS
	39	30 to 1000	500.024	-78.541	-54	≤4	PASS
		1000 to 12500	2403.047	-61.551	-47	≤20	PASS
	78	30 to 1000	500.024	-79.121	-54	≤4	PASS
		1000 to 12500	11910.030	-62.361	-47	≤20	PASS

Normal mode_π/4DQPSK_2-DH5

Condition	Channel	Frequency Range (MHz)	Peak (MHz)	Measured Value (dBm)	Limit		Result
					dBm	nW	
NT/NV	0	30 to 1000	500.024	-79.381	-54	≤4	PASS
		1000 to 12500	2402.663	-62.380	-47	≤20	PASS
	39	30 to 1000	500.024	-79.595	-54	≤4	PASS
		1000 to 12500	2402.663	-61.552	-47	≤20	PASS
	78	30 to 1000	500.024	-78.252	-54	≤4	PASS
		1000 to 12500	1738.708	-57.142	-47	≤20	PASS

Normal mode_8DPSK_3-DH5

Condition	Channel	Frequency Range (MHz)	Peak (MHz)	Measured Value (dBm)	Limit		Result
					dBm	nW	
NT/NV	0	30 to 1000	500.024	-79.103	-54	≤4	PASS
		1000 to 12500	11952.582	-62.582	-47	≤20	PASS
	39	30 to 1000	499.974	-78.307	-54	≤4	PASS
		1000 to 12500	11845.245	-62.894	-47	≤20	PASS
	78	30 to 1000	499.974	-78.546	-54	≤4	PASS
		1000 to 12500	2634.204	-57.648	-47	≤20	PASS

Test Graphs